

<u>ABBREVIATIONS</u>	
A.A.D.T.	AVERAGE ANNUAL DAILY TRAFFIC
AC	ASPHALT CONCRETE
ADD	ADDITION
ADF&G	ALASKA DEPARTMENT OF FISH AND GAME
ADOT	ALASKA DEPARTMENT OF TRANSPORTATION
ATB	ASPHALT TREATED BASE
AWWU	ANCHORAGE WATER AND WASTEWATER UTILITY
BC	BRASS CAP
BK	BOOK, BACK
BM	BENCH MARK
BOP	BEGINNING OF PROJECT
CB	CATCH BASIN
CF	CUBIC FEET
CIR	CIRCLE
CL	CENTERLINE
COR	CORNER
CP	CONTROL POINT
CPM	CRITICAL PATH METHOD
CS	CONTINGENT SUM
CSP	CORRUGATED STEEL PIPE
CY	CUBIC YARD
D	DEGREE
D (%)	DIRECTIONAL SPLIT (PERCENTAGE)
DHV	DESIGN HOUR VOLUME
DIA	DIAMETER
DWG	DRAWING
E	EAST
EA	EACH
EAL	EQUIVALENT AXLE LOAD
ELEV	ELEVATION
EMH	EXISTING MANHOLE
EOP	END OF PROJECT
EST	ESTIMATE
FI	FIELD INLET
FND	FOUND
FOC	FACE OF CURB
FT	FEET
GA	GAUGE
GAL	GALLON
GB	GRADE BREAK
GOV'T	GOVERNMENT
H	HOUR
HP	HORSE POWER
HWY	HIGHWAY
HR	HOUR
IA	INLET BOX TYPE A
IN	INCH
L	LENGTH
LB	POUND
LF	LINEAR FOOT
LN	LANE
LOC	LIP OF CURB
LS	LUMP SUM
LT	LEFT, LIGHT
M-GAL	1,000 GALLONS
MBM	1,000(FEET) BOARD MEASURE
ME	MATCH EXISTING
MEAS	MEASURE
MH1	MANHOLE TYPE 1
MH2	MANHOLE TYPE 2
MH3	MANHOLE TYPE 3
MI	MILE
MIN	MINIMUM
MISC	MISCELLANEOUS
ML	MANHOLE LID
MON	MONUMENT
MMA	METHYL METHACRYLATE
MP	MILEPOST
MPH	MILES PER HOUR
M.S.B.	MATANUSKA SUSITNA BOROUGH
N	NORTH, NORTHING
N/A	NOT APPLICABLE
NB	NORTHBOUND
NE	NORTH EAST
NO, No.	NUMBER
NTS	NOT TO SCALE
NW	NORTH WEST
OG	ORIGINAL GROUND
PC	POINT OF CURVATURE
PCC	POINT OF COMPOUND CURVE
PG	PROFILE GRADE POINT
PI	POINT OF INTERSECTION
PSI	POUNDS PER SQUARE INCH
PT	POINT OF TANGENCY
PUF	PUBLIC UTILITY EASEMENT

<u>ABBREVIATIONS (CONTINUED)</u>	
PVI	POINT OF VERTICAL INTERSECTION
PVMT	PAVEMENT
R	RADIUS
RD	ROAD
REC	RECORD
REF	REFERENCE
REQ'D	REQUIRED
ROW	RIGHT OF WAY
RP	RADIUS POINT
RR	RAILROAD
RT	RIGHT
S	SOUTH, SUPER ELEVATION RATE
SE	SOUTH EAST
SB	SOUTHBOUND
SD	STORM DRAIN
SEC	SECTION
SF	SILT FENCE, SQUARE FOOT
SH	SEWARD HIGHWAY
SHLD	SHOULDER
SM	SEWARD MERIDIAN
SQ	SQUARE
SS	SANITARY SEWER
ST	STREET
STA	STATION
STD	STANDARD
SUBD	SUBDIVISION
SUV	SPORT UTILITY VEHICLE
SW	SOUTH WEST
SWLK	SIDEWALK
SY	SQUARE YARD
T	TANGENT
T (%)	TRUCKS (PERCENTAGE)
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK
TCP	TEMPORARY CONSTRUCTION PERMIT
T/W	TRAVELED WAY
TYP	TYPICAL
UNSUB	UNSUBDIVIDED
V	VEE DITCH, VELOCITY
VC	VERTICAL CURVE
VPC	VERTICAL POINT OF CURVATURE
VP1	VERTICAL POINT OF INTERSECTION
VPT	VERTICAL POINT OF TANGENCY
W	WATER, WEST, WHITE
Y	YELLOW
YD	YARD

GENERAL NOTES:

1. CLEARING LIMITS SHALL BE RIGHT-OF-WAY TO RIGHT-OF-WAY AND AS DIRECTED BY ENGINEER.
2. GRUBBING SHALL BE PERFORMED ON ALL EXISTING FORESLOPES AND UNDER EMBANKMENT PRIOR TO PLACEMENT OF FILL REGARDLESS OF EMBANKMENT HEIGHT. GRUBBING LIMITS SHALL EXTEND TO THE SLOPE CATCH OR VEGETATIVE BUFFER.
3. PLACE 4 INCHES OF TOPSOIL AND SEEDING FROM:
 - A. THE SLOPE CATCH TO THE BOTTOM OF AGGREGATE BASE COURSE.
 - B. IN AREAS BETWEEN ROADWAYS, PATHWAYS, AND SIDEWALKS.
 - C. AS DIRECTED BY THE ENGINEER.
4. USE 10:1 TRANSITION BETWEEN DIFFERENT THICKNESS OF SELECTED MATERIALS.
5. SUPER ELEVATION FOR HORIZONTAL CURVES SHALL BE ROTATED AROUND THE PROFILE GRADE POINT AS SHOWN ON SHEET E1.
6. ALL WIRE CROSSING ELEVATIONS SHOWN ON PROFILES ARE THE APPROXIMATE ELEVATIONS WHERE THE LOWEST WIRE CROSSED THE PROPOSED CENTERLINE OF ROADWAY.
7. DIMENSIONS SHOWN ARE TO LIP OF CURB, UNLESS OTHERWISE NOTED.
8. WHERE NEW PAVEMENT IS PLACED ADJACENT TO EXISTING PAVEMENT, THE CONTRACTOR SHALL SAWCUT THE EXISTING PAVEMENT TO CREATE A CLEAN EDGE TO THE SATISFACTION OF THE ENGINEER.
9. DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
10. ALL PAVEMENT PENETRATION, MANHOLES, VALVE BOX, MONUMENTS, SHALL BE SET TO FINAL ELEVATION PRIOR TO TOP LIFT PAVING.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	A2	A6

ALIGNMENT ABBREVIATIONS

B4 BERM 4
OS OLD SEWARD HIGHWAY
P1 PATHWAY SOUTH
P2 PATHWAY NORTH
R1 SCOOTER ON RAMP
R2 SCOOTER OFF RAMP
S SCOOTER AVENUE
WL SEWARD HIGHWAY - SB LANE ADD

INDEX	
SHEET NO.	DESCRIPTION
A1	TITLE SHEET
A2	INDEX, GENERAL NOTES AND ABBREVIATIONS
A3	LEGEND/SYMBOLS
A4 TO A5	PROJECT LAYOUT SHEETS
A6	SURVEY CONTROL
B1 TO B7	TYPICAL SECTIONS
C1 TO C2	ESTIMATE OF QUANTITIES
D1 TO D5	SUMMARY SHEETS
E1 TO E13	DETAIL SHEETS
F1 TO F19	PLAN & PROFILE SHEETS
F20 TO F25	PLAN & PROFILE SHEETS - PATHWAY
F26	DRIVEWAY PROFILES
G1 TO G8	GRADING PLANS
H1 TO H16	SIGNING AND STRIPING SHEETS
J1 TO J10	TRAFFIC CONTROL PLANS
K1 TO K9	AUTOMATED TRAFFIC RECORDERS (ATR)
L1 TO L5	LANDSCAPING
P1 TO P23	ILLUMINATION & SIGNAL PLANS
Q1 TO Q12	EROSION & SEDIMENT CONTROL
R1 TO R11	RIGHT-OF-WAY MAPS
UD1 TO UD12	STORM DRAIN
U1	UTILITY PLANS (PREPARED BY OTHERS)

THE FOLLOWING STANDARD DRAWINGS
APPLY TO THIS PROJECT:

C-03.10, C-04.12, C-05.20
D-01.02, D-04.21, D-06.10, D-22.01, D-23.01, D-24.00,
D-25.00, D-26.02, D-35.00, D-36.00, D-37.01
F-01.01
G-00.02, G-04.10S, G-04.10W, G-10.01, G-20.11
I-21.02, I-22.02
M-20.13, M-23.12
S-00.11, S-01.00, S-05.01, S-20.10, S-22.00,
S-23.00, S-30.03, S-31.01, S-32.00
T-06.00, T-20.03, T-21.03, T-22.03, T-23.00

THE FOLLOWING REGIONAL DRAWINGS
APPLY TO THIS PROJECT:

CR-T-01.00, CR-T-04.00

PS&E REVIEW 10/01/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

INDEX, GENERAL NOTES, AND ABBREVIATIONS

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								NO.	DATE	DESCRIPTION	ALASKA	59770	2014	A3	A6

UTILITIES		EXISTING	PROPOSED
PIPELINES:			
STORM DRAIN STRUCTURE AND PIPE NUMBERS, APPLICABLE IF SHOWN			
STORM DRAIN			
MANHOLE STORM DRAIN			
CURB INLET CATCH BASIN			
FIELD INLET CATCH BASIN			
PIPE CULVERT w/ END SECTION			
CLEANOUT			
SANITARY SEWER			
MANHOLE SANITARY SEWER			
SEPTIC VENTS			
WATER			
FIRE HYDRANT			
WELL			
VALVE OR RISER			
NATURAL GAS			
OIL OR GASOLINE PIPELINE			
ELECTRIC (OVERHEAD)			
ELECTRIC (DIRECT BURY)			
ELECTRIC (OVERHEAD)			
UTILITY POLE			
UTILITY POLE WITH LUMINAIRE			
GUY POLE			
GUY WIRE ANCHOR			
TRANSMISSION TOWER [WOOD]			
TRANSMISSION TOWER [STEEL]			
ELECTRICAL PEDESTAL			
ELECTRICAL TRANSFORMER			
ELECTRIC METER			
ELECTRICAL OUTLET			
ELECTRIC MANHOLE			
TELEPHONE (OVERHEAD)			
TELEPHONE (DIRECT BURY)			
TELEPHONE (DIRECT BURY)			
TELEPHONE PEDESTAL			
TELEPHONE MANHOLE			
FIBER OPTIC			
FIBER OPTIC MANHOLE			
CABLE TV (OVERHEAD)			
CABLE T.V. PEDESTAL (DIRECT BURY)			
SATELLITE DISH			
U.G. DUCT (E, T, FO)			

UTILITIES		EXISTING	PROPOSED
ELECTROLIER			
HIGHTOWER			
SIGNAL POLE WITH MAST			
PEDESTRIAN PUSH BUTTON			
RURAL BEACON			
SCHOOL ZONE BEACON			
RIGHT OF WAY		EXISTING	PROPOSED
PRIMARY CENTERLINE MONUMENT			
SECONDARY CENTERLINE MONUMENT			
PROJECT RIGHT-OF-WAY LINES			
CONTRDLLED ACCESS LINE			
TEMPORARY CONSTRUCTION EASEMENT/PERMIT			
PROJECT CENTERLINE			
RAILROAD CENTERLINE			
EXISTING TOPOGRAPHY			
CONIFER TREE OR TREES			
DECIDUOUS TREE OR TREES			
SHRUB OR SHRUBS			
WETLANDS			
CREEK			
RIVER			
LAKE / POND			
EXISTING/PROPOSED			
DRAINAGE FLOW			
CONTOURS - MAJOR			
CONTOURS - MINOR			
MISCELLANEOUS		EXISTING	PROPOSED
BUILDING			
TANKS ABOVE GROUND UNDERGROUND			
PRIVATE SIGN			
POST/BOLLARDS			
MAILBOX			
TRAFFIC SIGN			
TRAFFIC SIGN POST #			
VENT			

ROADWAY		EXISTING	PROPOSED
ROADWAY OBLITERATION			
LIMIT OF CUT SLOPE			
LIMIT OF FILL SLOPE			
EDGE OF PAVEMENT			
CONCRETE CURB			
CONCRETE CURB & GUTTER			
CONCRETE CURB CUT			
SIDEWALK			
CURB RAMPS			
PARALLEL CURB RAMP			
PERPENDICULAR CURB RAMP			
MID-BLOCK CURB RAMP			
UNIDIRECTIONAL CURB RAMP			
DETECTABLE WARNING TILES			
DRIVEWAY APPROACH			
GRAVEL EDGE			
PATH / TRAIL			
BRIDGE			
TUNNEL			
NOISE BARRIER			
FENCE			
RETAINING WALL			
HEAD & WINGWALLS			
GUARDRAIL			
END SECTION			
PARALLEL GUARDRAIL SECTION			
SPECIAL DITCH			
BOTTOM OF DITCH			
RIPRAP			
BOULDER OR BOULDERS			

ADDITIONAL LEGEND		EXISTING	PROPOSED	
				CULVERT
				UNDERDRAIN
				PI
				PC / PT
				GRADE TO DRAIN
				SLOPE GRADE
				FIBER OPTIC VAULT
				ABANDONED TELEPHONE
				EXISTING RIGHT OF WAY
				SIGN
				MAILBOX
				ELECTRIC METER
				STORM DRAIN MANHOLE
				STORM DRAIN MANHOLE CATCH BASIN
				STORM DRAIN CATCH BASIN
				STORM DRAIN FIELD INLET
				FLAT BOTTOM DITCH
				WATER VAULT
				BUILDING
				VEGETATION/TREELINE
				SIGNAL POLE
				PEDESTRIAN BEACON
				CANTILEVER SIGN
				HIGH TOWER
				UTILITY EASEMENT

PS&E REVIEW 10/01/13

STATE OF ALASKA
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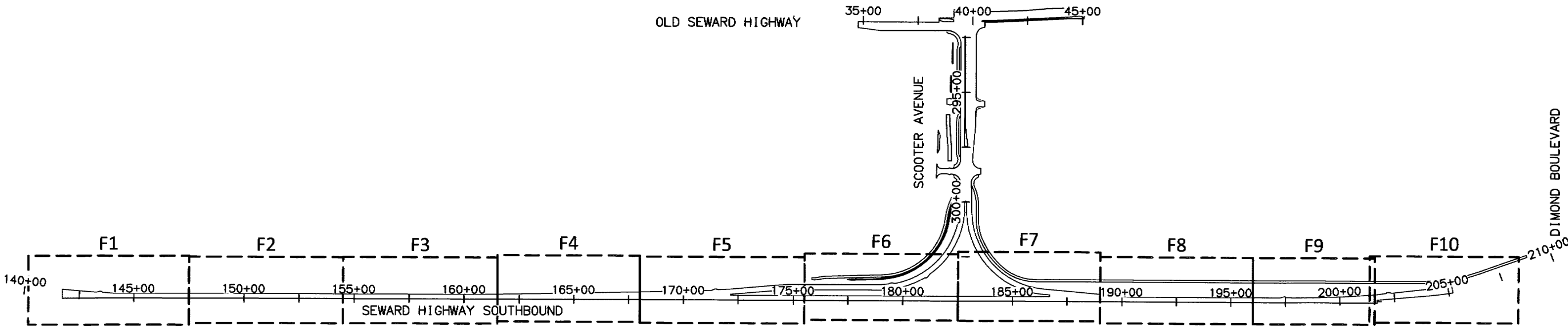
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

LEGEND SHEET

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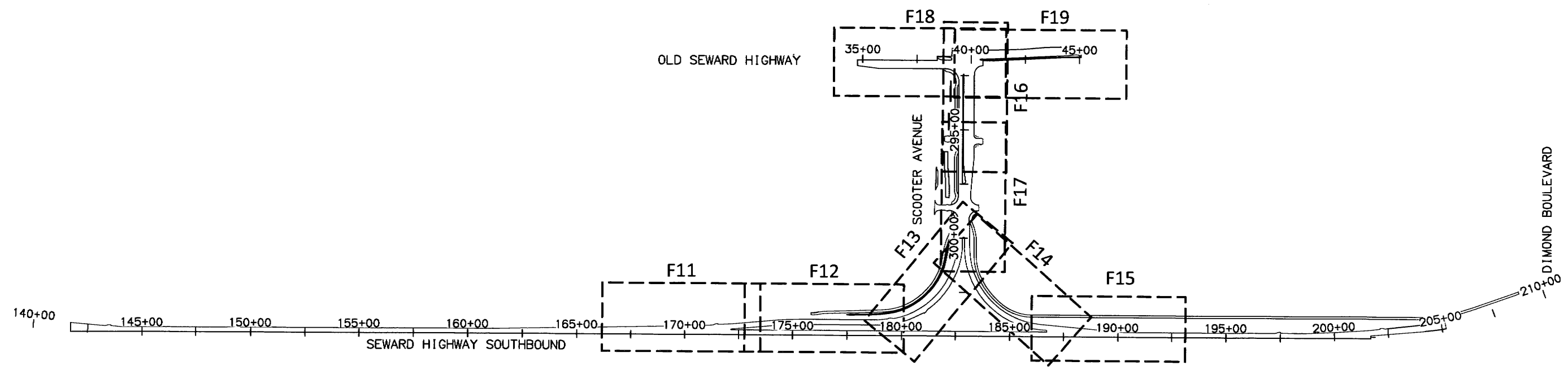
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**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

PROJECT LAYOUT
SEWARD HIGHWAY "WL"

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
	59770	2014	A5	A6

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**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

**PROJECT LAYOUT
RAMPS, SCOOTER AVENUE,
AND OLD SEWARD HIGHWAY**

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SURVEY CONTROL SHEETS
NEXT SUBMITTAL

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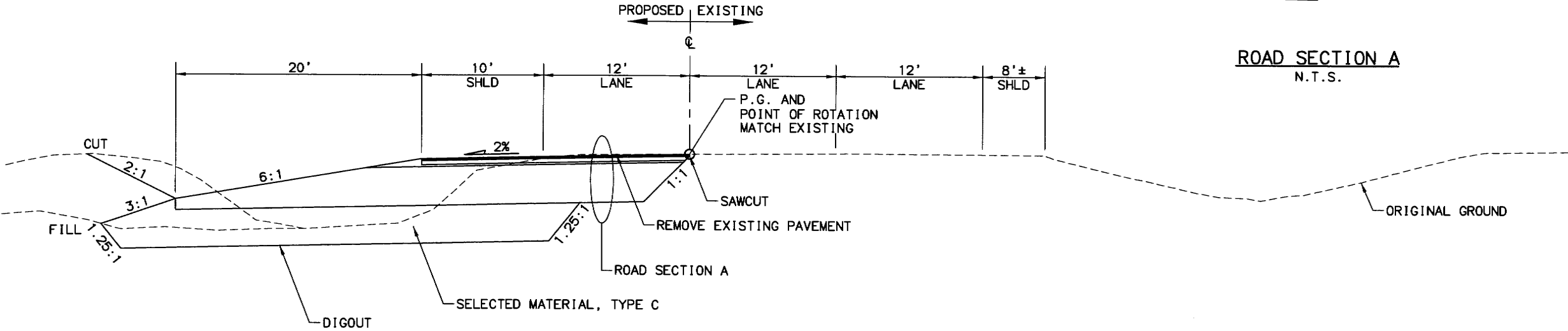
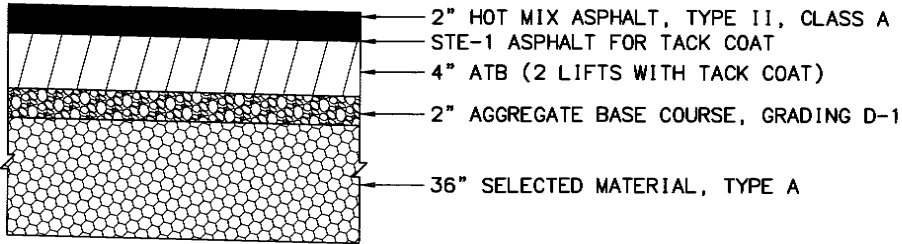
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TABLE OF SLOPE EXCEPTIONS					
SHEET	STATION TO STATION	OFFSET	FORE/BACK	SLOPE	REMARKS
F1	"WL"144+03 TO "WL"148+00	LT	FORE	2:1	GUARDRAIL
F2	"WL"148+00 TO "WL"148+80	LT	FORE	2:1	GUARDRAIL
F5	"WL"175+00 TO "WL"175+20	LT	FORE	2:1	GUARDRAIL
F6	"WL"175+20 TO "WL"182+20	LT	FORE	2:1	GUARDRAIL
F7	"WL"182+20 TO "WL"184+00	LT	FORE	2:1	GUARDRAIL
F9	"WL"198+01 TO "WL"201+20	LT	FORE	2:1	GUARDRAIL
F10	"WL"201+20 TO "WL"201+65	LT	FORE	2:1	GUARDRAIL
F11	"R1"35+79 TO "R1"37+00	LT	FORE	2:1	GUARDRAIL
F12	"R1"37+00 TO "R1"42+65	LT	FORE	2:1	GUARDRAIL
F12	"R1"39+00 TO "R1"43+60	RT	FORE	2:1	GUARDRAIL
F13	"R1"43+60 TO "R1"44+36	RT	FORE	2:1	GUARDRAIL

- NOTES:
1. REMOVE ALL ORGANIC SOILS IN THE EXISTING DITCH PRIOR TO PLACEMENT OF FILL AS DIRECTED BY THE ENGINEER.
 2. IN AREAS WHERE LOOP DETECTORS ARE INSTALLED PLACE 4" OF AGGREGATE BASE COURSE, GRADING D-1 IN PLACE OF SUBSEQUENT MATERIAL LAYER.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	B1	B7

DIGOUT LOCATION				
SHEET	STATION TO STATION	OFFSET	DEPTH	REMARKS
F5/F6	"WL"173+50 TO "WL"179+50	9 LT	7.0'	ORGANIC SOIL
F16	"S"293+27 TO "S"295+97	LT/RT	8.5'	PEAT



SEWARD HIGHWAY - SB LANE ADD
STA "WL" 144+11.7 TO STA "WL" 197+05.4

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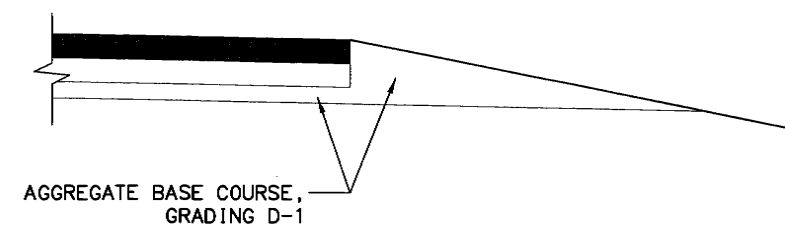
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STATE OF ALASKA
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AND PUBLIC FACILITIES

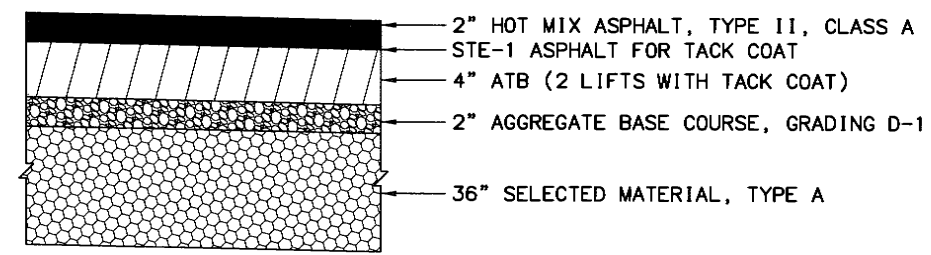
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

TYPICAL SECTIONS

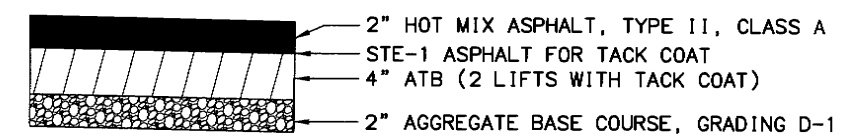
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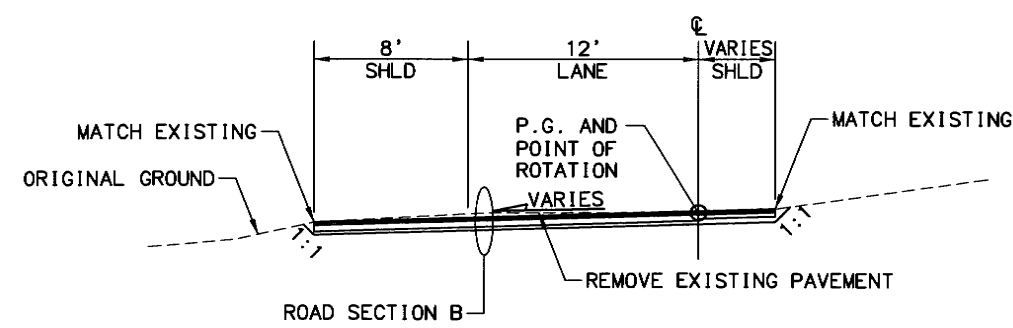
TYPICAL PAVEMENT EDGE DETAIL



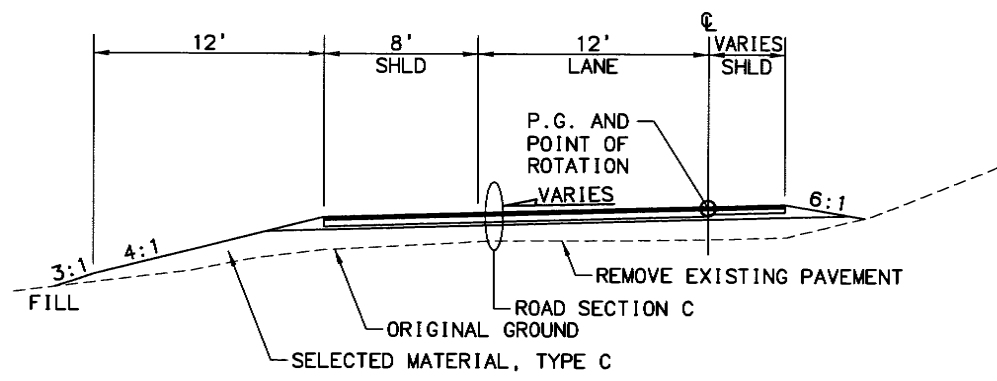
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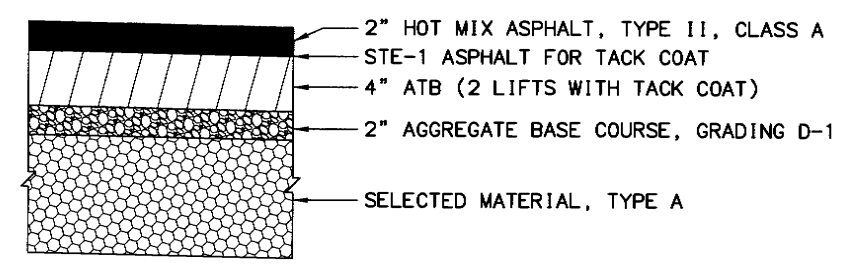
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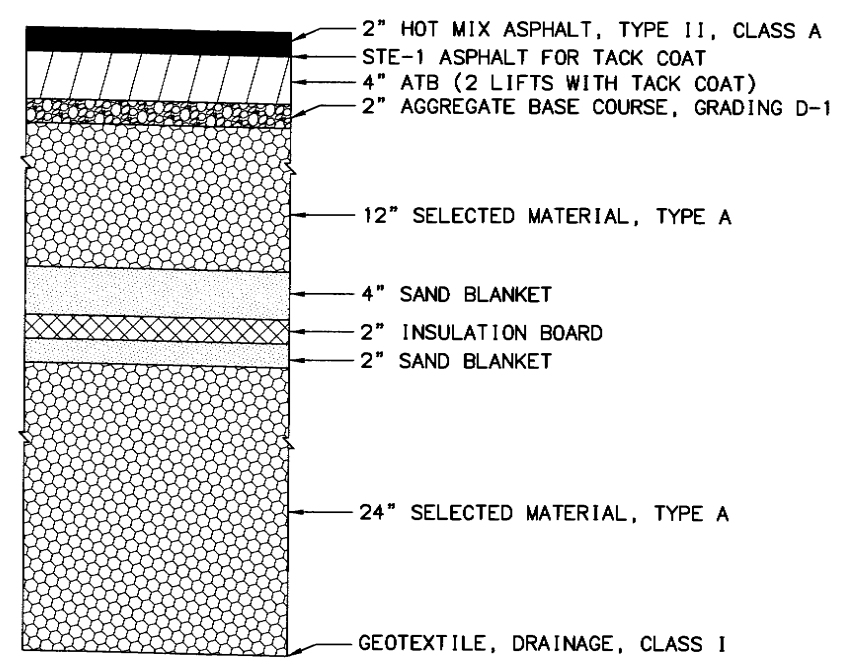
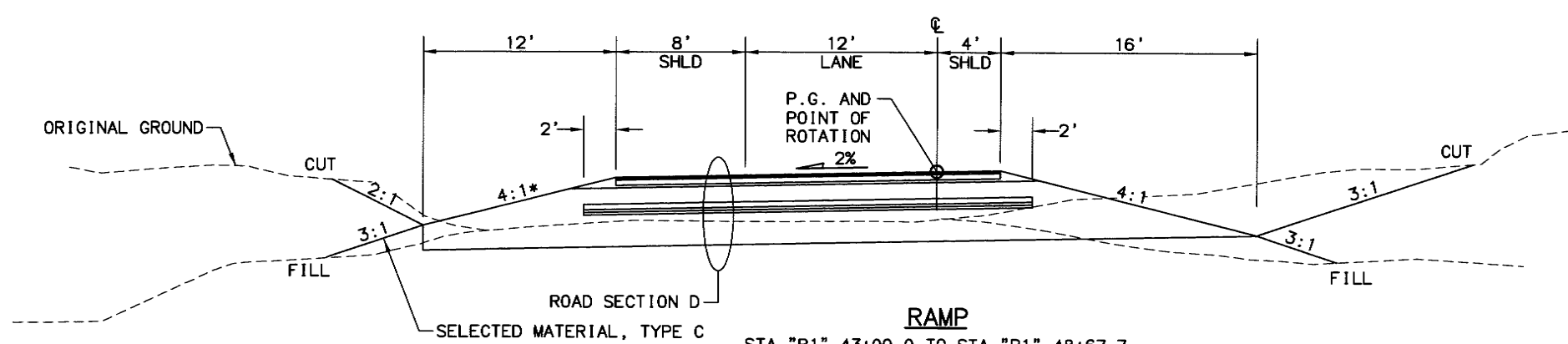
SEWARD HIGHWAY EXISTING RAMP
STA "WL" 141+71.1 TO STA "WL" 144+11.7
STA "WL" 197+05.4 TO STA "WL" 201+70.1



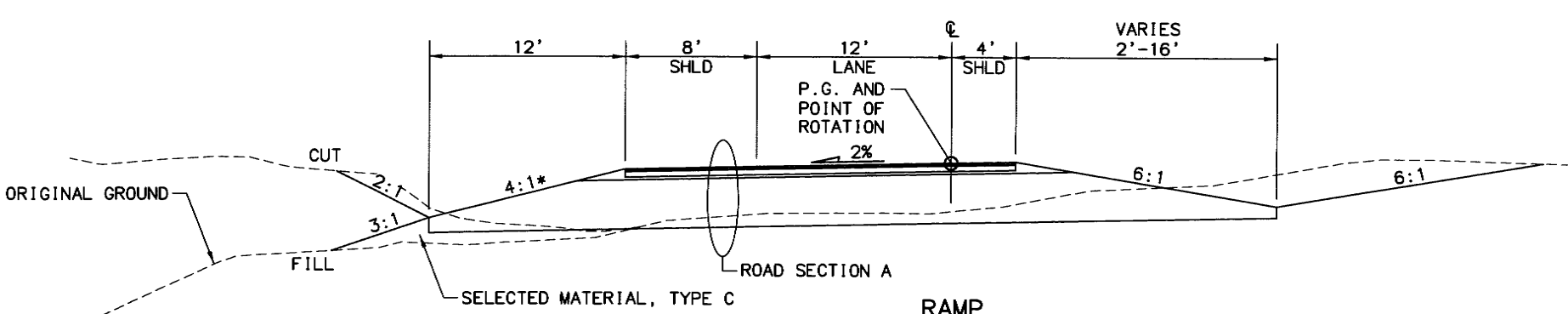
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STA "WL" 201+70.1 TO STA "WL" 205+19.2



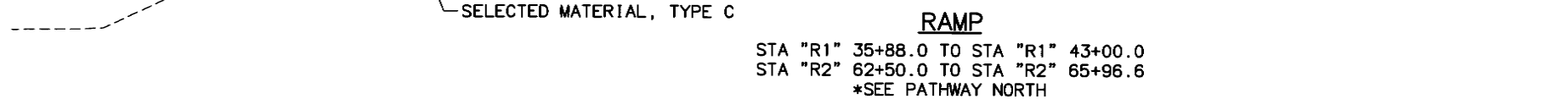
ROAD SECTION C
N.T.S.



ROAD SECTION D
N.T.S.



RAMP
STA "R1" 43+00.0 TO STA "R1" 48+67.7
STA "R2" 60+00.0 TO STA "R2" 62+50.0
*SEE PATHWAY NORTH



RAMP
STA "R1" 35+88.0 TO STA "R1" 43+00.0
STA "R2" 62+50.0 TO STA "R2" 65+96.6
*SEE PATHWAY NORTH

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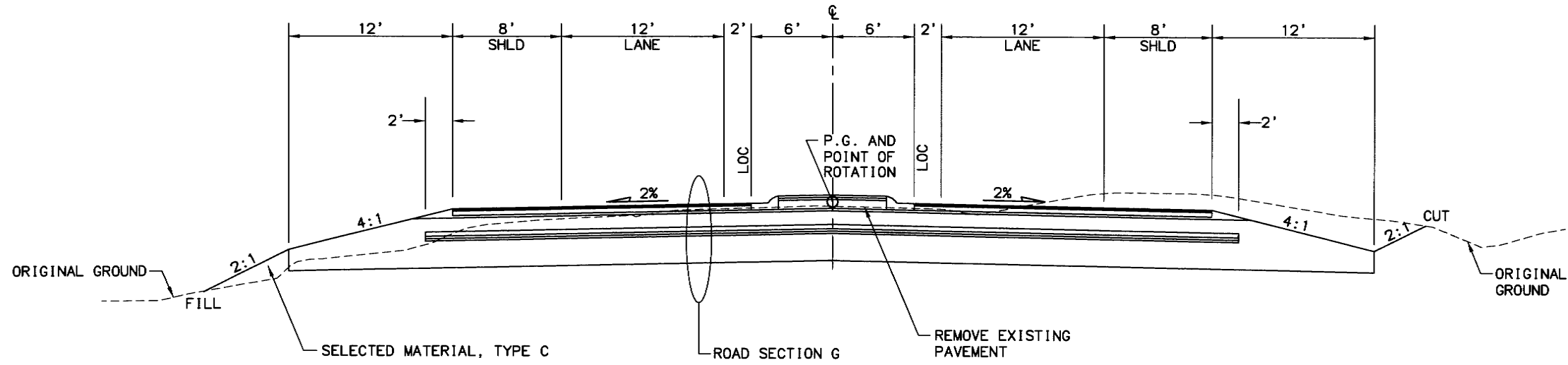
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PS&E REVIEW 10/01/13
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR
TYPICAL SECTIONS

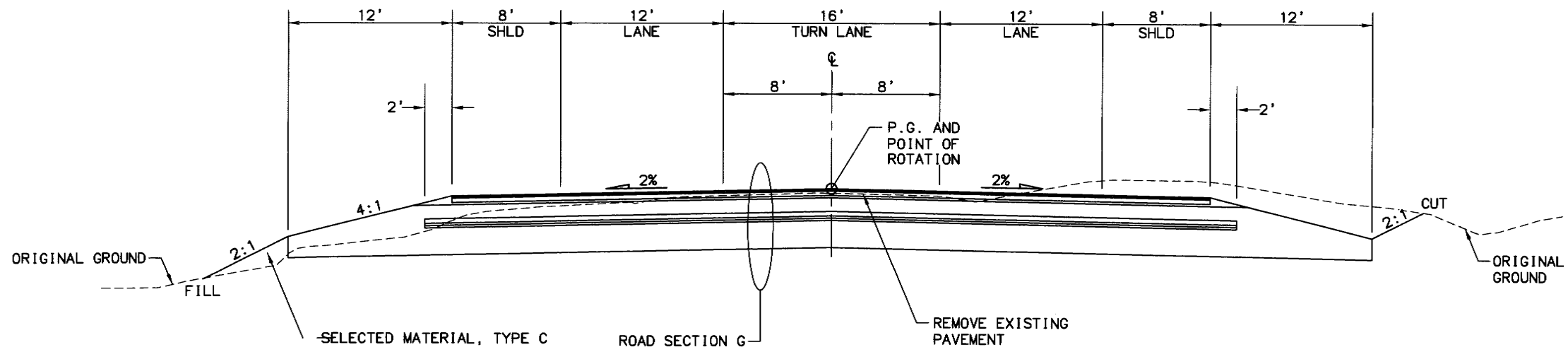
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DATE 10/2/2013 8:18 AM
TIME
LAYOUT MODEL
SCALE
XREFS
DESIGNED BY KAL
CHECKED BY CDB
DRAWN BY CDB

REVISIONS		
NO.	DATE	DESCRIPTION

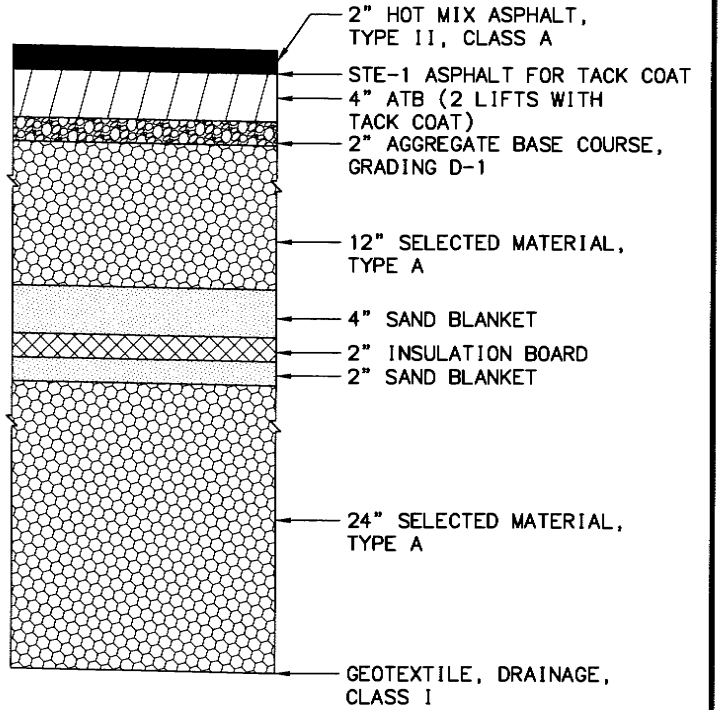
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	B4	B7



SCOOTER AVENUE
STA "S" 299+94.0 TO STA "S" 300+19.2



SCOOTER AVENUE
STA "S" 299+24.5 TO STA "S" 299+94.0



ROAD SECTION G
N.T.S.

PS&E REVIEW 10/01/13

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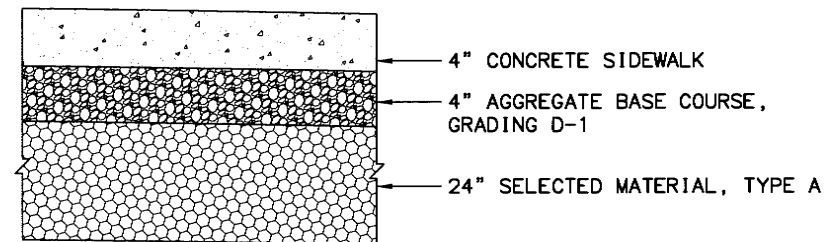
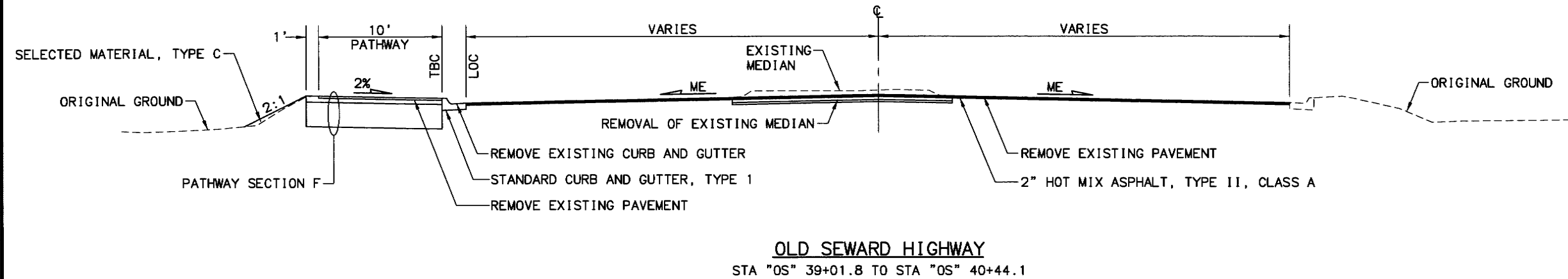
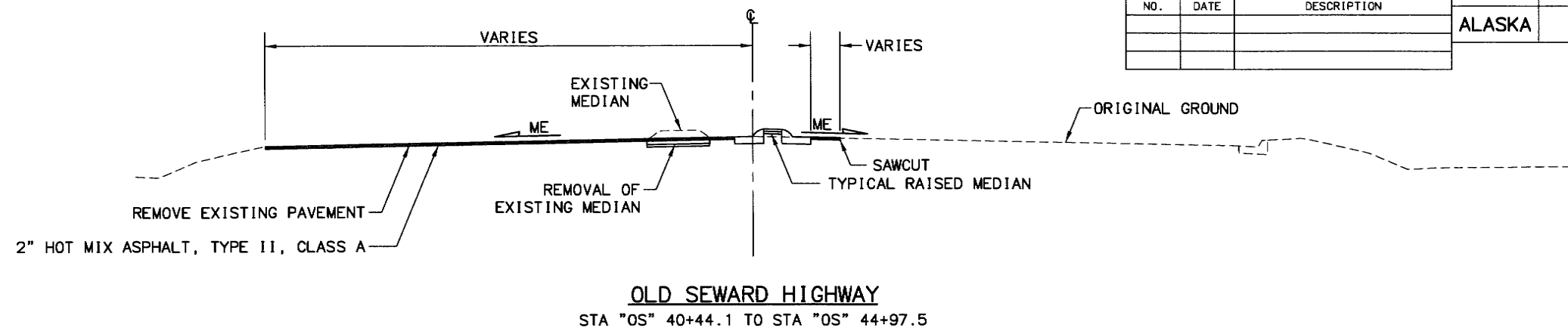
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

TYPICAL SECTIONS

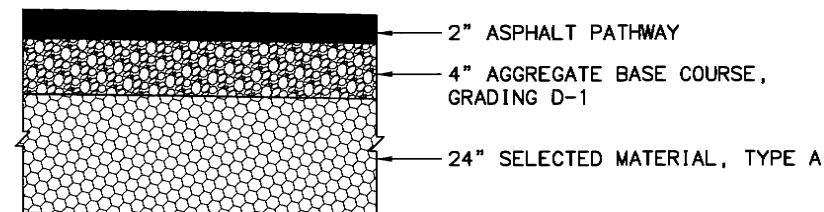
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REVISIONS		
NO.	DATE	DESCRIPTION

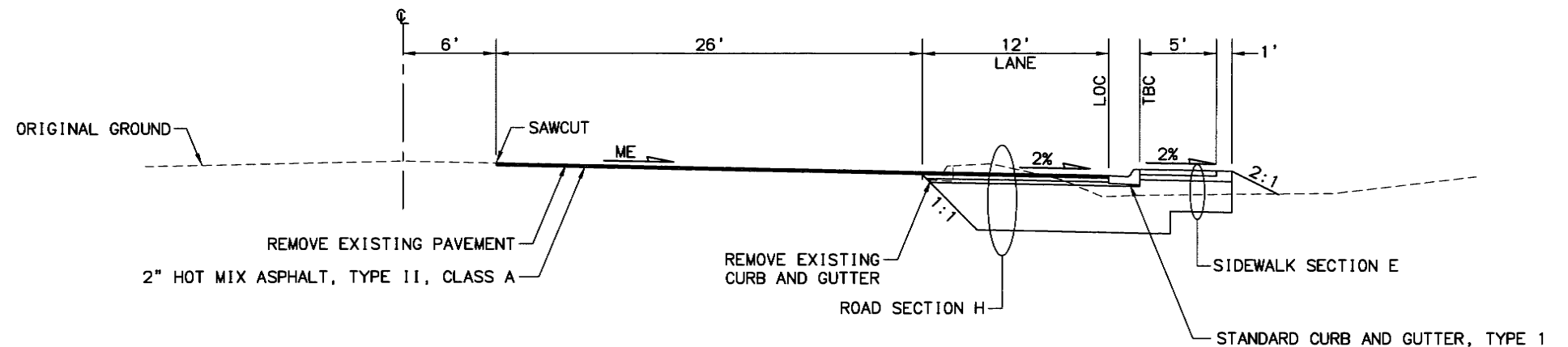
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	B5	B7



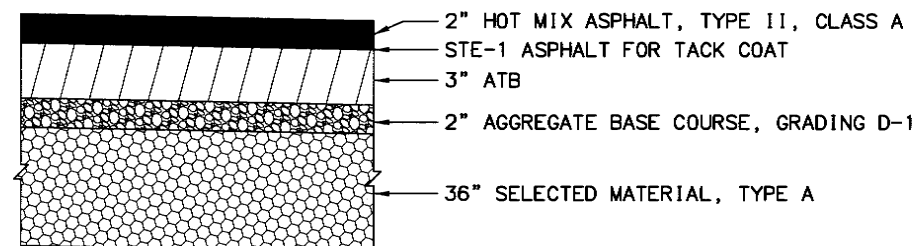
SIDEWALK SECTION E
N.T.S.



PATHWAY SECTION F
N.T.S.



OLD SEWARD HIGHWAY
STA "OS" 34+75.8 TO STA "OS" 39+01.8



ROAD SECTION H
N.T.S.

PS&E REVIEW 10/01/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

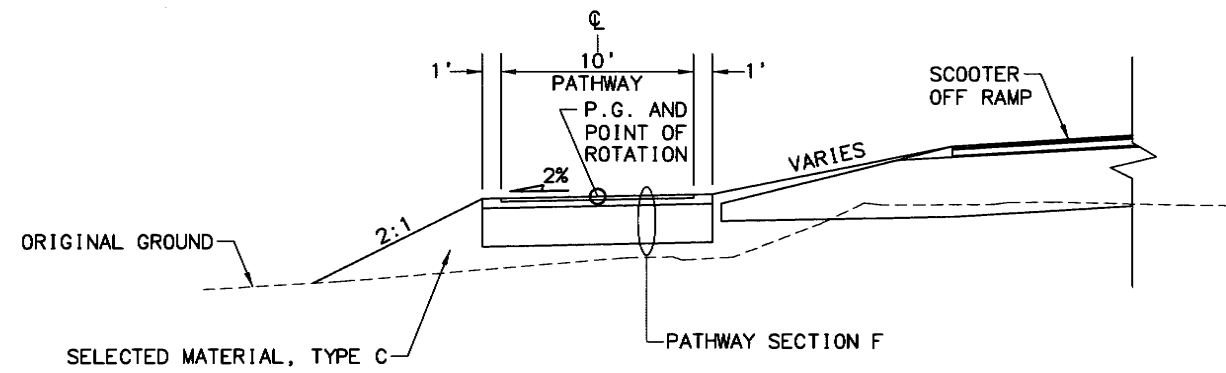
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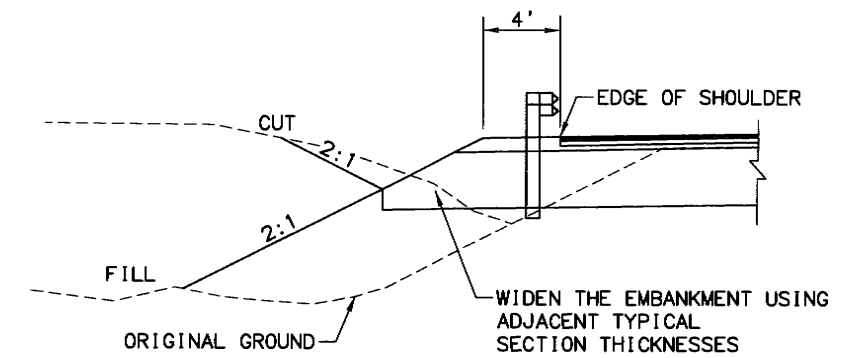
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CHECKED BY JMF
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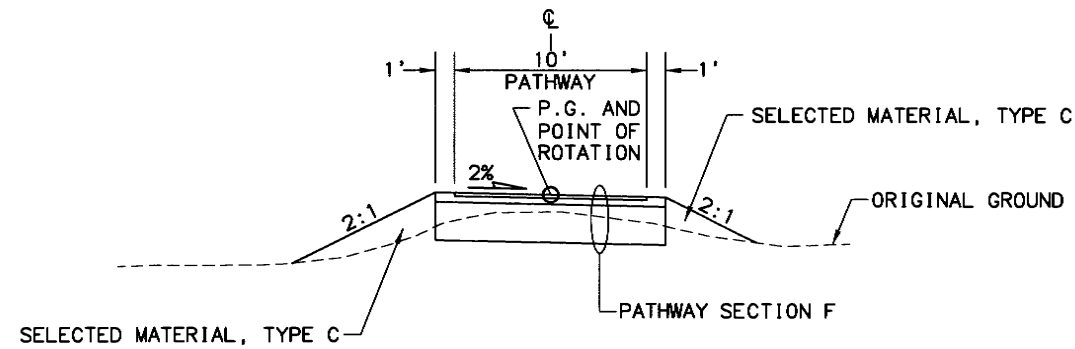
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NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	B6	B7



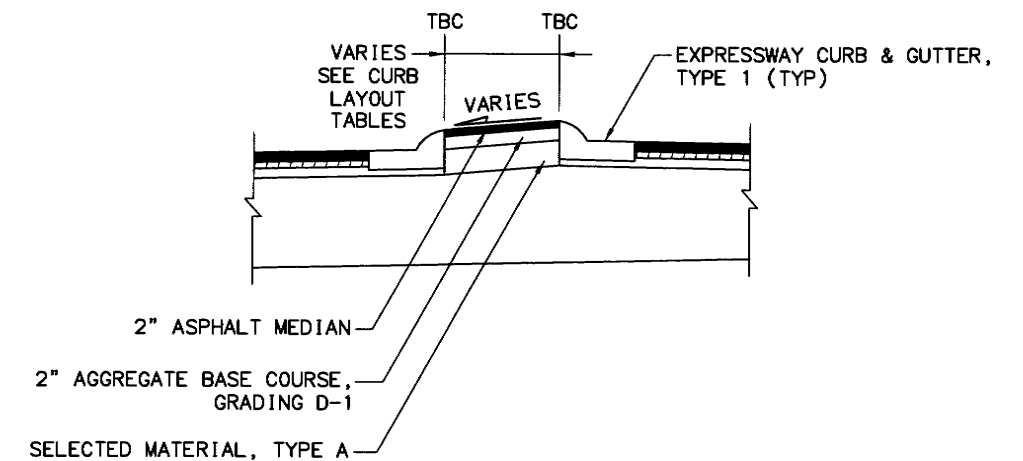
PATHWAY NORTH
STA "P2" 16+50.0 TO STA "P2" 20+25.0



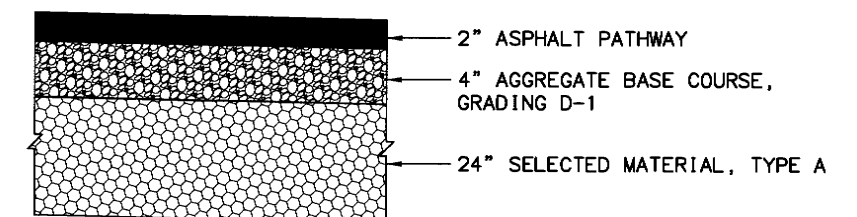
EMBANKMENT WIDENING FOR GUARDRAIL



PATHWAY NORTH
STA "P2" 14+00.0 TO STA "P2" 16+50.0
STA "P2" 20+25.0 TO STA "P2" 42+46.4



TYPICAL RAISED MEDIAN
N.T.S.



PATHWAY SECTION F
N.T.S.

PS&E REVIEW 10/01/13

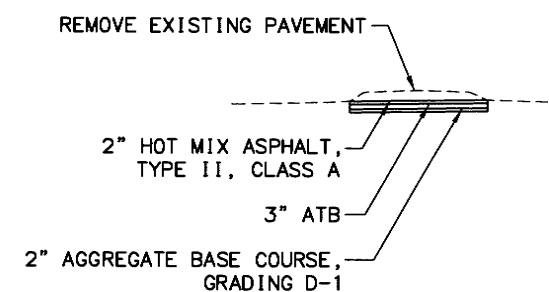
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

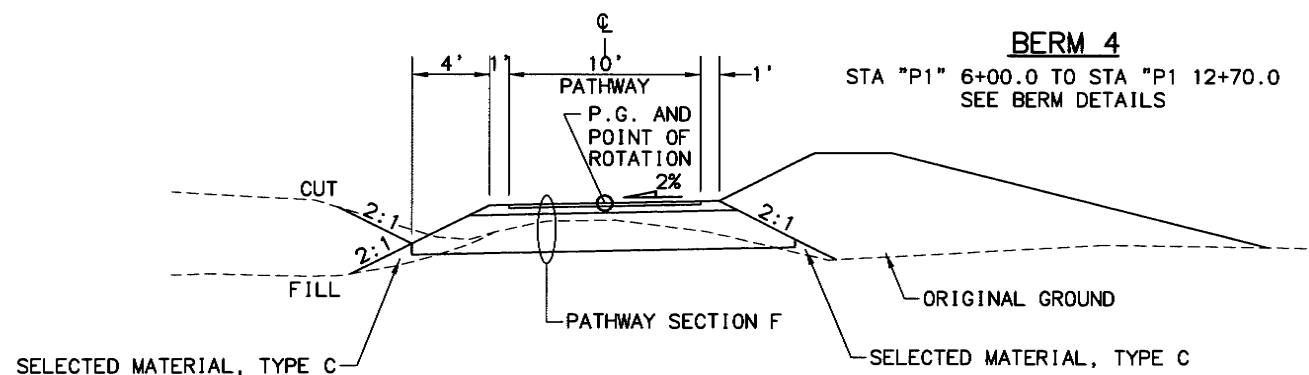
TYPICAL SECTIONS

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REMOVAL OF EXISTING MEDIAN
STA "OS" 38+35.0 TO STA "OS" 39+66.6
STA "OS" 41+99.5 TO STA "OS" 44+86.8



PATHWAY SOUTH
STA "P1" 4+20.0 TO STA "P1" 13+28.3

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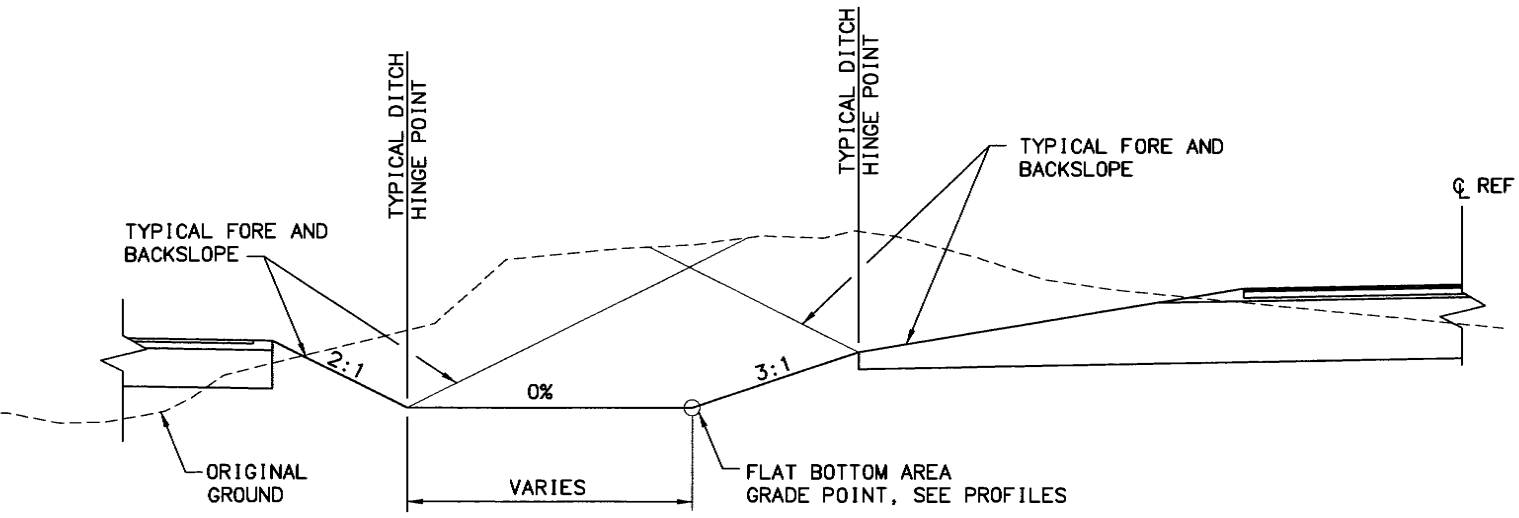
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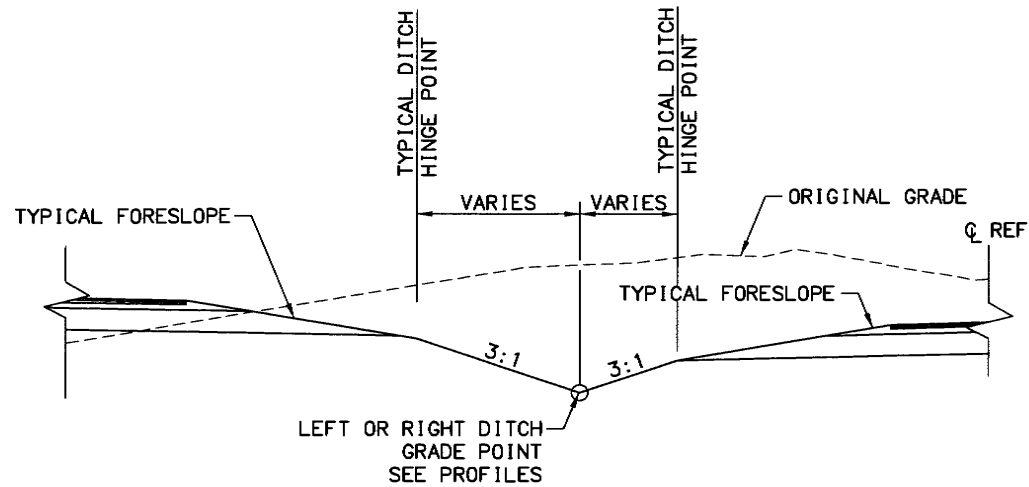
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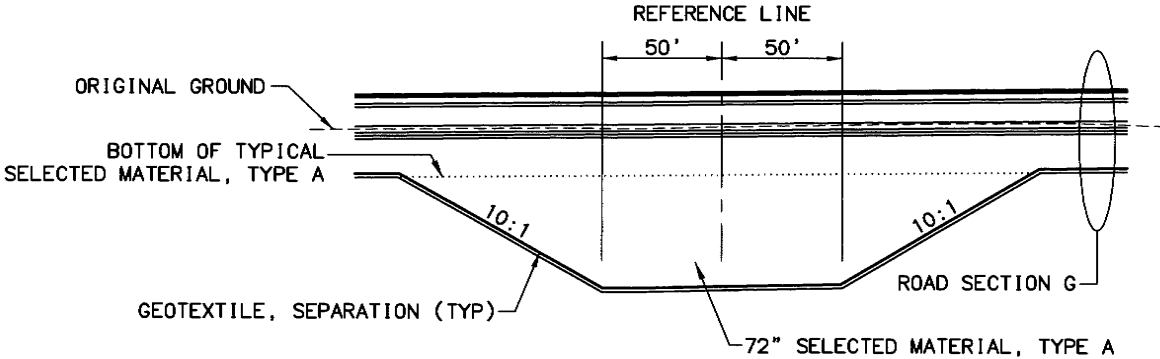
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NO.	DATE	DESCRIPTION					
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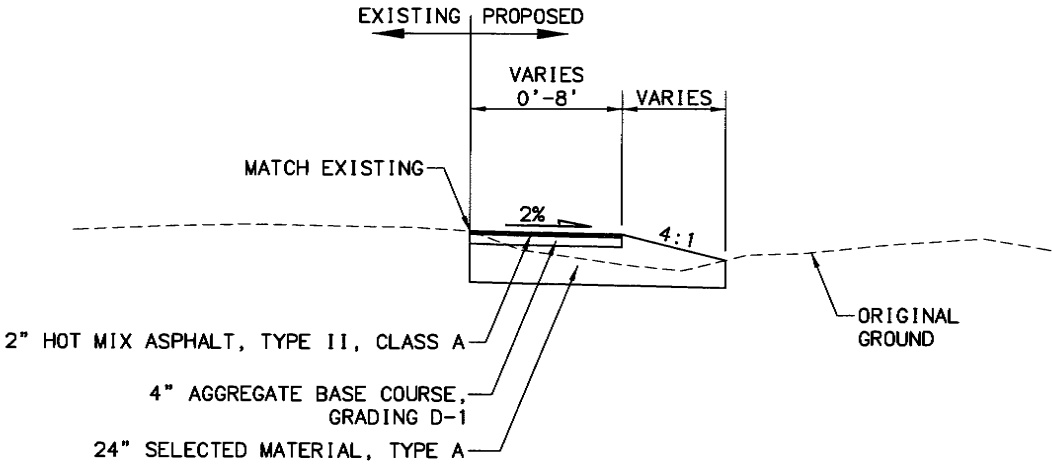
FLAT BOTTOM AREA TYPICAL SECTION
N.T.S.



"VEE" DITCH TYPICAL SECTION
N.T.S.



DIGOUT TRANSITION PROFILE DETAIL
"S"294+05.0



TYPICAL MAILBOX TURNOUT

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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

TYPICAL SECTIONS

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TIME
LAYOUT MODEL
SCALE
XREFS
DESIGNED BY DLF
CHECKED BY JMF
DRAFTED BY CDB

ESTIMATE OF QUANTITIES			
ITEM NO	ITEM DESCRIPTION	PAY UNIT	TOTALS
201(1A)	CLEARING	ACRE	4
201(2B)	GRUBBING	LS	ALL REQ'D
202(1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	ALL REQ'D
202(2)	REMOVAL OF PAVEMENT	SY	20,139
202(3)	REMOVAL OF SIDEWALK	SY	457
202(4)	REMOVAL OF CULVERT PIPE	LF	1,058
202(5)	REMOVAL OF SANITARY SEWER PIPE	LF	88
202(6)	REMOVAL OF MANHOLE	EA	5
202(8)	REMOVAL OF INLET	EA	8
202(9)	REMOVAL OF CURB AND GUTTER	LF	1,949
202(12)	DOUBLE MAIL BOX INSTALLATION	EA	15
202(13)	REMOVAL OF FENCE	LF	4,641
202(23A)	GROUND WATER WELL DECOMMISSIONING	EA	6
203(3)	UNCLASSIFIED EXCAVATION	CY	48,705
203(6A)	BORROW, TYPE A	TON	87,988
203(9)	OBLITERATION OF ROADWAY	SY	295
301(1)	AGGREGATE BASE COURSE, GRADING D-1	TON	6,057
306(1)	ATB	TON	6,758
306(2)	ASPHALT CEMENT, GRADE PG 52-34	TON	353
306(6)	ASPHALT PRICE ADJUSTMENT - QUALITY	CS	ALL REQ'D
306(10)	ASPHALT MATERIAL PRICE ADJUSTMENT - UNIT PRICE	CS	ALL REQ'D
401(1)	HOT MIX ASPHALT, TYPE II, CLASS A	TON	4,073
401(2)	ASPHALT CEMENT, GRADE PG 58-34	TON	224
401(3)	TEMPORARY PAVEMENT	TON	1,236
401(6)	ASPHALT PRICE ADJUSTMENT - QUALITY	CS	ALL REQ'D
401(9)	LONGITUDINAL JOINT ADHESIVE	LF	6,167
401(10)	ASPHALT MATERIAL PRICE ADJUSTMENT - UNIT PRICE	CS	ALL REQ'D
603(1-18)	18 INCH CSP	LF	464
603(1-24)	24 INCH CSP	LF	1,014
603(1-36)	36 INCH CSP	LF	544
603(3-18)	END SECTION FOR 18 INCH CSP	EA	2
603(3-24)	END SECTION FOR 24 INCH CSP	EA	1
604(1A)	STORM SEWER MANHOLE, TYPE I	EA	13
604(1B)	STORM SEWER MANHOLE, TYPE II	EA	6
604(1C)	STORM SEWER MANHOLE, TYPE III	EA	3
604(3)	RECONSTRUCT EXISTING MANHOLE	EA	3
604(13A)	RECONSTRUCT EXISTING AWWU MANHOLE	EA	2
604(13B)	ADJUST EXISTING AWWU MANHOLE	EA	2

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	C1	C2

ESTIMATE OF QUANTITIES			
ITEM NO	ITEM DESCRIPTION	PAY UNIT	TOTALS
606(1)	W-BEAM GUARDRAIL	LF	2,963
606(6)	REMOVING AND DISPOSING OF GUARDRAIL	LF	82
606(13)	PARALLEL GUARDRAIL TERMINAL	EA	10
607(3)	CHAIN LINK FENCE	LF	3,562
608(1A)	CONCRETE SIDEWALK, 4 INCHES THICK	SY	654
608(6)	CURB RAMP	EA	16
608(7)	ASPHALT PATHWAY	TON	585
608(8)	ASPHALT MEDIANS	TON	49
609(2)	CURB AND GUTTER, TYPE I	LF	4401
611(2)	RIPRAP, CLASS I	TON	18
615(1)	STANDARD SIGN	SF	1,066
615(6)	SALVAGE SIGN	EA	33
618(2)	SEEDING	LB	360
620(1)	TOPSOIL	SY	39,965
621(1A)	TREE - ALDER, 8' TALL	EA	57
621(1B)	TREE - BIRCH, 25' TALL	EA	81
621(1C)	TREE - CRABAPPLE, 3" CAL.	EA	13
621(1D)	TREE - LARCH, 6' TALL	EA	8
621(1E)	TREE - PINE, BRISTLECONE, 5' TALL	EA	16
621(1F)	TREE - SPRUCE, WHITE, 4' TALL	EA	29
621(1G)	TREE - SPRUCE, WHITE, 6' TALL	EA	88

TABLE OF ESTIMATING FACTORS		
ITEM NO.	ITEM	FACTOR
203(6A)	BORROW, TYPE A	145 LB/CF
203(6C)	BORROW, TYPE C	135 LB/CF
301(1)	AGGREGATE BASE COURSE, GRADING D-1	148 LB/CF
306(1)	ATB	152 LB/CF
306(2)	ASPHALT CEMENT, GRADE 52-34	5.5% OF WEIGHT OF 306(1)
401(1)	HOT MIX ASPHALT, TYPE II, CLASS A	152 LB/CF
401(2)	ASPHALT CEMENT, GRADE PG 58-34	5.5% OF WEIGHT OF 401(1)
401(3)	TEMPORARY PAVEMENT	152 LB/CF
608(8)	ASPHALT PATHWAYS AND MEDIANS	152 LB/CF
611(2)	RIPRAP, CLASS I	107 LB/CF
618(3)	WATER FOR SEEDING	1 GAL/SF

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AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

ESTIMATE OF QUANTITIES

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DATE TIME
LAYOUT MODEL SCALE
XREFS
DESIGNED BY DLF
CHECKED BY JMF
DRAFTED BY CDB

202(1)

REMOVAL OF STRUCTURES AND OBSTRUCTIONS

SHEET	STATION	OFFSET	REMARKS
F6	"WL" 179+69	121 LT	SMALL BUILDING
	"WL" 180+32	122 LT	BUILDING
	"WL" 181+10	121 LT	BUILDING
	"WL" 181+44	150 LT	WATER SERVICE
	"WL" 181+55	160 LT	BUILDING
	"WL" 181+97	158 LT	BUILDING
	"WL" 182+08	131 LT	WATER VALVE
F7	"WL" 182+43	125 LT	WATER VALVE
	"WL" 182+45	188 LT	BUILDING
	"WL" 182+51	123 LT	SMALL BUILDING
F16	"S" 292+44	63 LT	POST
	"S" 294+05	66 RT	SMALL BUILDING
	"S" 294+59	38 RT	BUILDING
	"S" 296+10	45 RT	BUILDING
	"S" 297+22	35± RT	TRAILER
F17	"S" 298+53	32 RT	ELECTRIC METER
	"S" 298+56	32 RT	BUILDING
	"S" 299+08	60 RT	BUILDING
	"S" 299+28	19 RT	BUILDING
	"S" 299+86	29 RT	TRAILER W/LEANTO
	"S" 300+32	23 RT	BUILDING
	"S" 301+01	121 RT	CONCRETE BLOCK PLANTER BOX
	"S" 301+04	40 RT	TRAILER
	"S" 301+21	58 RT	SMALL BUILDING
	"S" 301+33	123 RT	BOULDER

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	D1	D5

202(2)

REMOVAL OF PAVEMENT

SHEET	STATION	OFFSET	AREA (SQ YD)	REMARKS
F1	"WL" 141+73 TO "WL" 148+00	LT/RT	1,262	
F2	"WL" 148+00 TO "WL" 155+00	LT	675	
F3	"WL" 155+00 TO "WL" 161+60	LT	653	
F4	"WL" 161+60 TO "WL" 168+00	LT	651	
F5	"WL" 168+00 TO "WL" 175+20	LT	700	
F6	"WL" 175+20 TO "WL" 182+20	LT	1,298	
F7	"WL" 182+20 TO "WL" 189+00	LT	1,300	
F8	"WL" 189+00 TO "WL" 196+00	LT	1,546	
F9	"WL" 196+00 TO "WL" 201+20	LT/RT	1,802	
F10	"WL" 201+20 TO "WL" 208+91	LT/RT	2,055	
F16	"S" 292+03 TO "S" 297+50	LT/RT	2,122	
F17	"S" 297+50 TO "S" 301+64	LT/RT	1,215	
F17	"S" 298+27 TO "S" 298+92	RT	12	
F18	"OS" 34+66 TO "OS" 40+70	LT/RT	2,359	
F19	"OS" 40+70 TO "OS" 44+97	LT/RT	2,489	

202(3)

REMOVAL OF SIDEWALK

SHEET	STATION	OFFSET	AREA (SQ YD)	REMARKS
F18	"OS" 34+66 TO "OS" 39+72	RT	287	
F18	"OS" 39+02 TO "OS" 40+31	LT	140	
F18	"OS" 40+08 TO "OS" 40+44	RT	30	

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AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SUMMARY SHEET

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XREF'S
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LAYOUT MODEL
DATE TIME
DESIGNED BY DLF
CHECKED BY JMF
DRAWN BY CDB

202(4)

REMOVAL OF CULVERT PIPE				
SHEET	STATION	OFFSET	LENGTH (FT)	REMARKS
F2	"WL" 149+18	65 LT	47	
	"WL" 149+36	43 LT	11	*
F7	"WL" 182+90	92 LT	20	
F8	"WL" 190+33	47 LT	7	*
F9	"WL" 200+02	24 LT	5	*
F12	"R1" 39+09	11 RT	2	*
	"R1" 39+55	48 LT	40	
	"R1" 40+01	66 LT	54	
	"R1" 40+27	64 LT	10	
	"R1" 40+28	41 LT	29	
	"R1" 40+30	78 LT	11	
F16	"S" 291+14	25 LT	58	
	"S" 291+52	48 LT	111	
	"S" 291+70	2 RT	68	
	"S" 292+09	59 LT	17	*
	"S" 292+10	24 RT	33	
	"S" 292+16	7 RT	19	
	"S" 293+81	50 LT	339	
	"S" 295+41	24 LT	56	
	"S" 295+54	66 RT	9	*
	"S" 295+64	54 LT	19	
	"S" 295+72	22 LT	66	
F18	"OS" 35+54	43 RT	18	
	"OS" 35+60	49 RT	9	*

* REMOVE LENGTH OF CULVERT PIPE PRIOR TO EXTENDING SEE UD SHEETS

202(5)

REMOVAL OF SANITARY SEWER PIPE				
SHEET	STATION	OFFSET	LENGTH (FT)	REMARKS
F13	"R1" 46+88	49 LT	92'	

202(6)

REMOVAL OF MANHOLE			
SHEET	STATION	OFFSET	REMARKS
F12	"R1" 39+72	62 LT	STORM DRAIN
	"R1" 40+23	57 LT	STORM DRAIN
F13	"R1" 47+09	8 LT	SANITARY
F16	"S" 292+09	48 LT	STORM DRAIN
	"S" 295+53	52 LT	STORM DRAIN

202(8)

REMOVAL OF INLET			
SHEET	STATION	OFFSET	REMARKS
F2	"WL" 149+36	48 LT	FIELD INLET
F12	"R1" 40+30	70 LT	FIELD INLET
F16	"S" 292+05	7 RT	CURB INLET
	"S" 292+13	42 RT	FIELD INLET
	"S" 295+29	4 RT	FIELD INLET
	"S" 295+68	13 RT	FIELD INLET
	"S" 295+76	57 LT	FIELD INLET
F18	"OS" 35+54	32 RT	CURB INLET

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	D2	D5

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SUMMARY SHEET

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DRAFTING LOCATION
DESIGNED BY DIF
CHECKED BY JMF
DRAWN BY CDB
XREFS
SCALE
LAYOUT MODEL
DATE TIME
UNIT

202(9)

REMOVAL OF CURB AND GUTTER

SHEET	STATION TO STATION	OFFSET	LENGTH (FT)	REMARKS
F18	"OS" 34+76 TO "OS" 39+86	RT	540	
	"OS" 38+45 TO "OS" 39+76	LT/RT	279	
	"OS" 39+12 TO "OS" 40+56	LT	144	
	"OS" 40+13 TO "OS" 40+54	RT	66	
	"OS" 40+45 TO "OS" 40+70	LT/RT	53	
F19	"OS" 40+70 TO "OS" 43+62	LT/RT	592	
	"OS" 43+76 TO "OS" 45+05	LT/RT	275	

202(12)

MAIL BOX INSTALLATION

SHEET	EXISTING LOCATION		PROPOSED LOCATION		DOUBLE 202(12)	REMARKS
	STATION	OFFSET	STATION	OFFSET		
F16	"S" 294+24.5 TO "S" 294+57.0	2 LT	"S" 296+99.0 TO "S" 297+44.0	117 RT	15	CALAMITY COURT

202(13)

REMOVAL OF FENCE

SHEET	STATION TO STATION	OFFSET	LENGTH (FT)	REMARKS
F5	"WL" 168+05 TO "WL" 175+20	LT	715	
	"WL" 174+90 TO "WL" 175+20	115 LT	46	
F6	"WL" 175+20 TO "WL" 175+24	115 LT	20	
	"WL" 175+20 TO "WL" 182+20	LT	700	
	"WL" 179+29	117 LT	22	
	"WL" 179+31 TO "WL" 179+83	103 LT	52	
	"WL" 179+93 TO "WL" 181+24	LT	386	LOT PERIMETER & GATE
F7	"WL" 182+20 TO "WL" 189+00	LT	680	
F8	"WL" 189+00 TO "WL" 196+00	LT	700	
F9	"WL" 196+00 TO "WL" 201+12	LT	509	
F16	"S" 296+35 TO "S" 296+44	70 LT	32	
F17	"S" 298+84	42 RT	75	
	"S" 299+42 TO "S" 301+28	125 RT	695	LOTS PERIMETER
	"S" 300+63	167 RT	9	

REVISIONS

NO.	DATE	DESCRIPTION

STATE

PROJECT DESIGNATION

YEAR

SHEET NO.

TOTAL SHEETS

ALASKA

59770

2014

D3

D5

202(23A)

GROUND WATER WELL DECOMMISSIONING

SHEET	STATION	OFFSET	REMARKS
F6	"WL" 181+44.4	150 LT	
F7	"WL" 182+51.5	122 LT	
F16	"S" 294+11.8	36 RT	
F17	"S" 298+29.5	111 RT	
	"S" 298+91.7	119 RT	
	"S" 300+65.0	112 RT	

203(9)

OBLITERATION OF ROADWAY

SHEET	STATION TO STATION	OFFSET	AREA (SQ YD)	REMARKS
F6	"WL" 181+27.7 TO "WL" 182+20.0	LT	68	
F7	"WL" 182+20.0 TO "WL" 184+30.9	LT	175	
F13	"R1" 46+69.3 TO "R1" 47+21.3	LT	52	

603(1-18), 603(1-24), 603(1-36), 603 (1-54), 603(3-24), 604(1A), 604(1B), 604(1C), 604(3)

PIPE, CULVERT, STRUCTURE SUMMARY

SEE UD SHEETS

PS&E REVIEW 10/01/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SUMMARY SHEET

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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	D4	D5

604(13A)

RECONSTRUCT EXISTING AWWU MANHOLE			
SHEET	STATION	OFFSET	REMARKS
F9	"WL" 196+45.6	79.9 LT	SANITARY SEWER
F16	"S" 297+20.3	28.2 LT	SANITARY SEWER

604(13B)

ADJUST EXISTING AWWU MANHOLE			
SHEET	STATION	OFFSET	REMARKS
F16	"S" 292+32.2	30.5 LT	SANITARY SEWER
	"S" 295+37.9	30.4 LT	SANITARY SEWER

607(3)

CHAIN LINK FENCE				
SHEET	STATION	OFFSET	LENGTH	REMARKS
F8	"WL" 189+00.0 TO "WL" 196+00.0	LT	700	8-FOOT
F9	"WL" 196+00.0 TO "WL" 201+00.0	LT	495	8-FOOT
F11	"R1" 31+79.0 TO "R1" 37+00.0	LT	518	8-FOOT
F12	"R1" 37+00.0 TO "R1" 43+60.0	LT	654	8-FOOT
F13	"R1" 43+60.0 TO "R1" 48+46.9	LT	415	8-FOOT
F14	"R2" 60+00.0 TO "R2" 68+19.8	LT	780	8-FOOT

606(1), 606(13)

W-BEAM GUARDRAIL AND END TREATMENT					
SHEET	STATION TO STATION	OFFSET	LENGTH	PARALLEL GUARDRAIL TERMINAL	REMARKS
			(FT)		
F1	"WL" 143+03.23 TO "WL" 148+00.00	LT	395.0	1	*
F2	"WL" 148+00.00 TO "WL" 148+80.08	LT	80.0	1	*
F5	"WL" 175+00.00 TO "WL" 175+20.00	LT	20.0	1	*
F6	"WL" 175+20.00 TO "WL" 182+20.00	LT	700.0		*
F7	"WL" 182+20.00 TO "WL" 184+00.04	LT	180.0	1	*
F9	"WL" 198+01.00 TO "WL" 201+20.00	LT	318.0	1	*
F10	"WL" 201+20.00 TO "WL" 201+64.71	LT	44.5	1	*
F11	"R1" 35+79.12 TO "R1" 37+00.00	LT	121.0	1	*
F12	"R1" 37+00.00 TO "R1" 42+65.09	LT	567.0	1	*
F12	"R1" 68+99.94 TO "R1" 43+60.00	RT	461.0	1	*
F13	"R1" 43+60.00 TO "R1" 44+35.75	RT	76.5	1	*

* 2-FOOT END OFFSET, SEE STD DWG G-20.11

608(6)

CURB RAMP			
SHEET	STATION	OFFSET	REMARKS
F16	"S" 292+08.72	62.93 LT	PERPENDICULAR
	"S" 292+21.63	50.05 LT	PERPENDICULAR
	"S" 292+29.94	48.47 RT	PERPENDICULAR
	"S" 292+42.68	35.73 RT	PERPENDICULAR
	"S" 295+25.03	42.96 RT	PERPENDICULAR
	"S" 295+38.20	52.50 LT	PERPENDICULAR
	"S" 295+61.17	42.96 RT	PERPENDICULAR
	"S" 295+66.79	52.50 LT	PERPENDICULAR
F17	"S" 298+41.25	46.73 LT	PERPENDICULAR
	"S" 298+42.22	42.96 RT	PERPENDICULAR
	"S" 298+76.07	46.71 LT	PERPENDICULAR
	"S" 298+78.37	42.96 RT	PERPENDICULAR
	"S" 298+91.25	30.07 RT	PERPENDICULAR
	"S" 298+91.25	29.57 LT	PERPENDICULAR
F18	"OS" 39+21.55	37.20 LT	PARALLEL
	"OS" 40+32.80	38.39 LT	PERPENDICULAR

606(6)

REMOVING AND DISPOSING OF GUARDRAIL				
SHEET	STATION TO STATION	OFFSET	LENGTH (FT)	REMARKS
F7	"WL" 182+72 TO "WL" 183+13	103 LT	41	
	"WL" 183+20 TO "WL" 183+61	105 LT	41	

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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SUMMARY SHEET

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DATE DATED BY CDB
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SCALE
LAYOUT MODEL
TIME

609(2)

CURB AND GUTTER, TYPE I				
SHEET	STATION TO STATION	OFFSET	LENGTH (FT)	REMARKS
F16	"S" 292+19.5 TO "S" 295+38.3	LT	348.48	
	"S" 292+19.5 TO "S" 295+28.9	RT	368.75	
	"S" 292+42.4 TO "S" 297+48.9	LT/RT	1025.79	
	"S" 295+57.3 TO "S" 297+50.0	RT	228.91	
	"S" 295+66.7 TO "S" 297+50.0	LT	211.89	
F17	"S" 297+50.0 TO "S" 298+48.3	LT	121.34	
	"S" 297+50.0 TO "S" 298+46.1	RT	132.30	
	"S" 298+72.3 TO "S" 299+35.2	LT	91.91	
	"S" 298+74.5 TO "S" 299+35.2	RT	97.34	
	"S" 299+94.0 TO "S" 300+47.3	LT/RT	116.14	
F18	"OS" 34+75.8 TO "OS" 38+98.3	RT	423.37	
	"OS" 38+45.4 TO "OS" 39+13.5	LT/RT	151.58	
	"OS" 39+11.6 TO "OS" 40+52.0	LT	140.80	
	"OS" 40+39.9 TO "OS" 40+70.0	LT/RT	64.57	
F19	"OS" 40+70.0 TO "OS" 45+06.10	LT/RT	878.26	

611(1)

RIPRAP, CLASS I				
SHEET	STATION TO STATION	OFFSET	RIPRAP CLASS I (TON)	REMARKS
F9	"WL" 199+93.8 TO "WL" 200+08.9	LT	17.7	

627(10A)

REMOVE & REPLACE WATER VALVE BOX AND LID			
SHEET	STATION	OFFSET	REMARKS
F16	"S" 292+44.2	62 LT	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
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639(6)

APPROACH							
SHEET	STATION	OFFSET	WIDTH (FT)	LENGTH (FT)	DESIGN RADIUS	SKEW ANGLE	REMARKS
F16	"S" 295+43.10	RT	24	66.1	40	-	SHORT STREET
	"S" 295+52.50	LT	24	41.2	15	-	
F17	"S" 298+60.29	RT	24	110.5	40	-	STUB PLACE
	"S" 298+60.29	LT	24	44.8	40	-	

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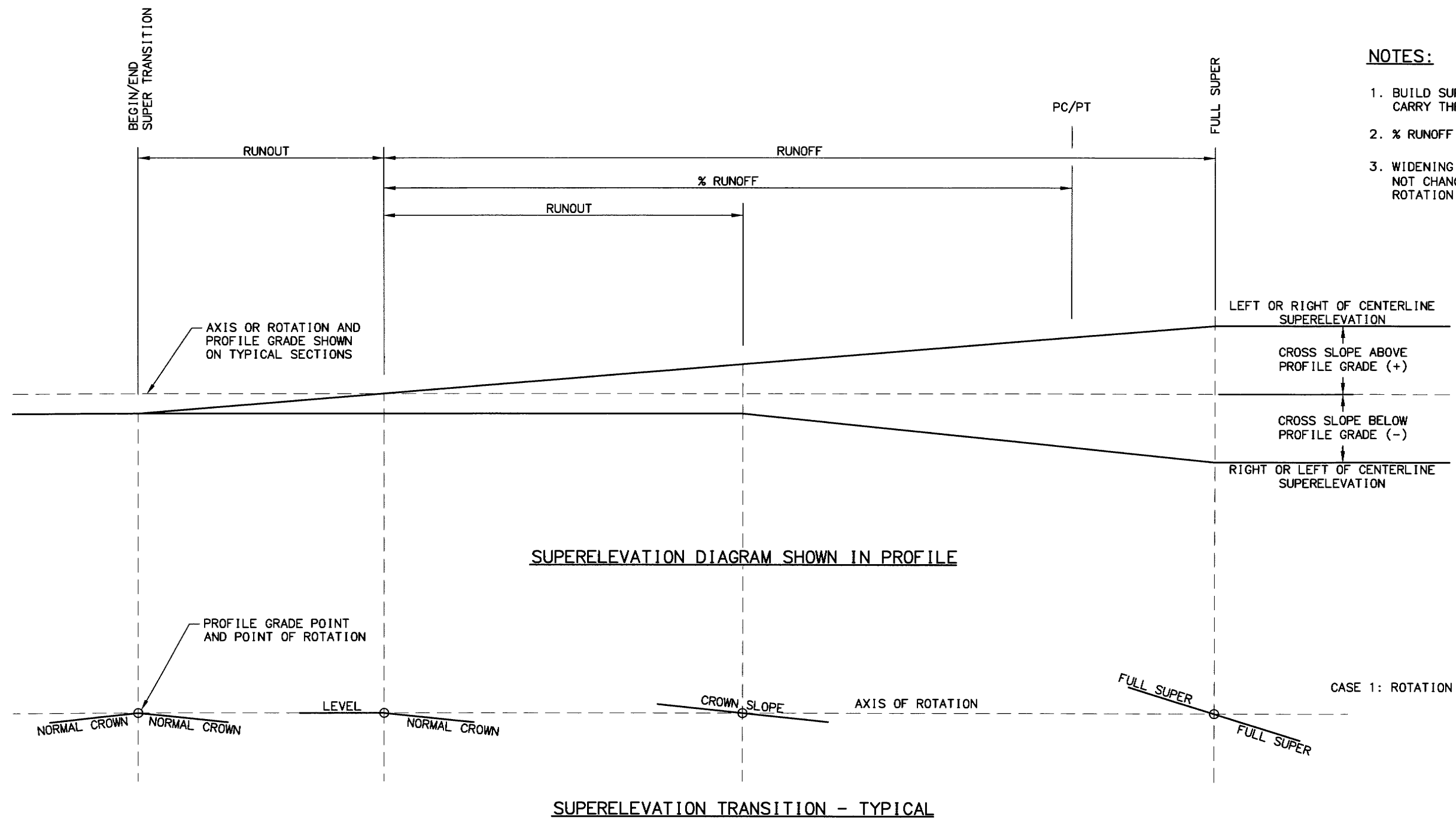
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NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	E1	E13



NOTES:

1. BUILD SUPERELEVATION INTO SUBGRADE AND CARRY THROUGH SHOULDERS.
2. % RUNOFF = PORTION OF RUNOFF ON TANGENT.
3. WIDENING FOR GUARDRAIL OR CURVATURE DOES NOT CHANGE THE LOCATION OF THE AXIS OF ROTATION.

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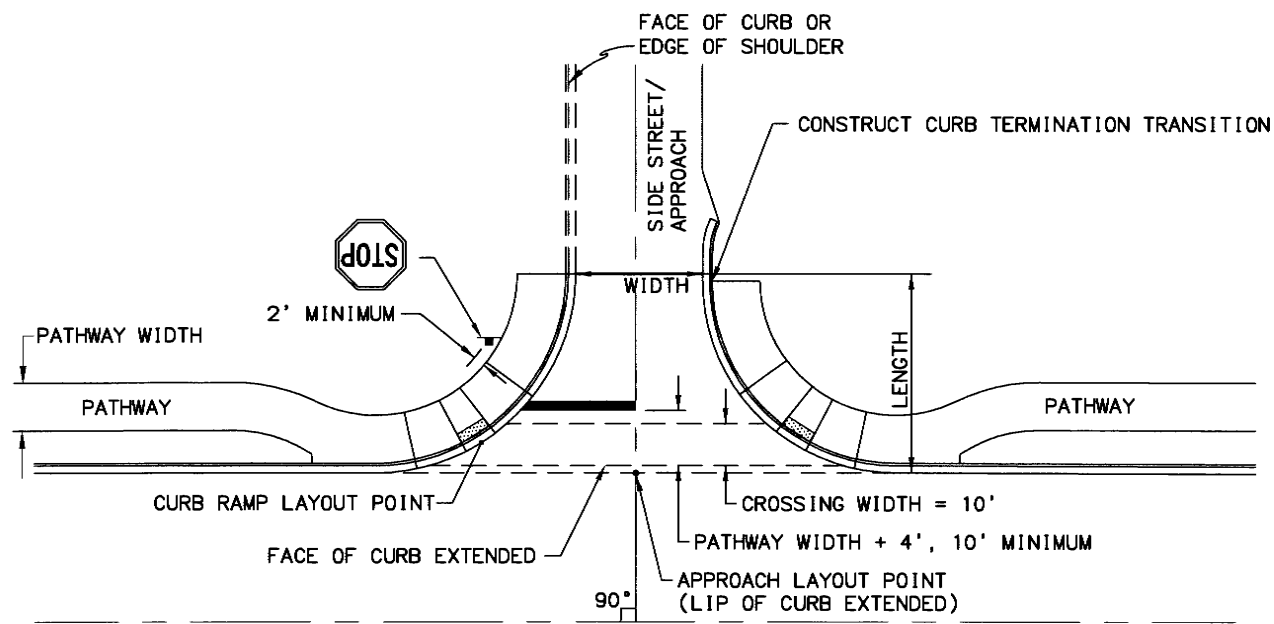
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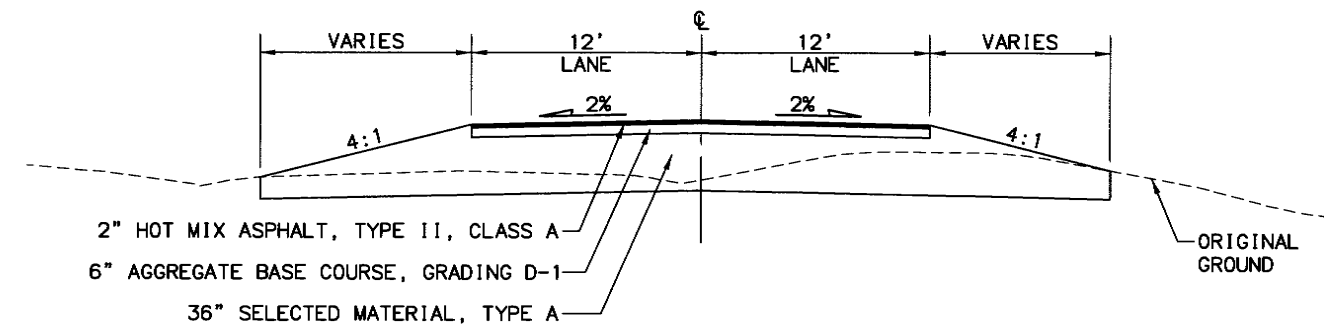
**SUPERELEVATION TRANSITION
DETAIL**

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NO.	DATE	DESCRIPTION					
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TYPICAL CURBED RETURN WITH PATHWAY



APPROACH TYPICAL SECTION
(FROM APPROACH LAYOUT POINT TO MATCH WITH EXISTING)

NOTE:
1. SEE APPROACH SUMMARY FOR APPROACH STATION, LENGTH, WIDTH.

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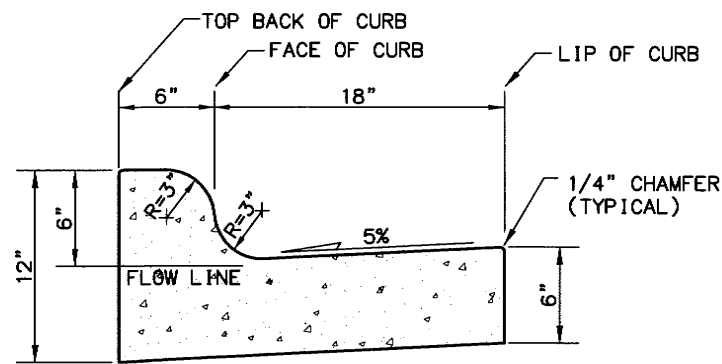
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

APPROACH DETAILS

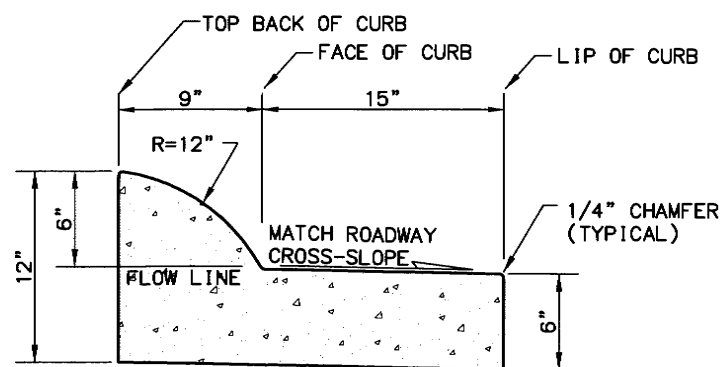
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NO.	DATE	DESCRIPTION					
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ALASKA	59770	2014	E3	E13



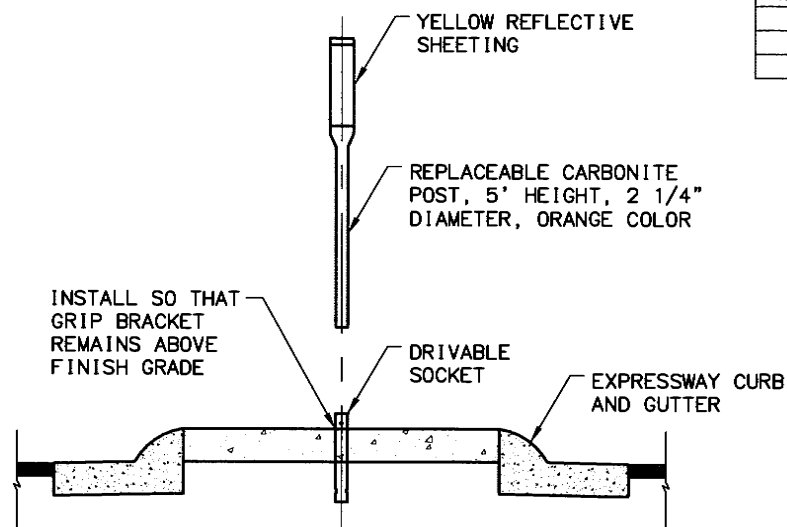
STANDARD CURB & GUTTER



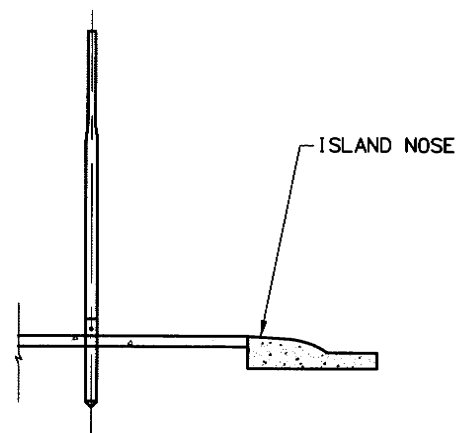
EXPRESSWAY CURB & GUTTER (MEDIAN)

CURB NOTES

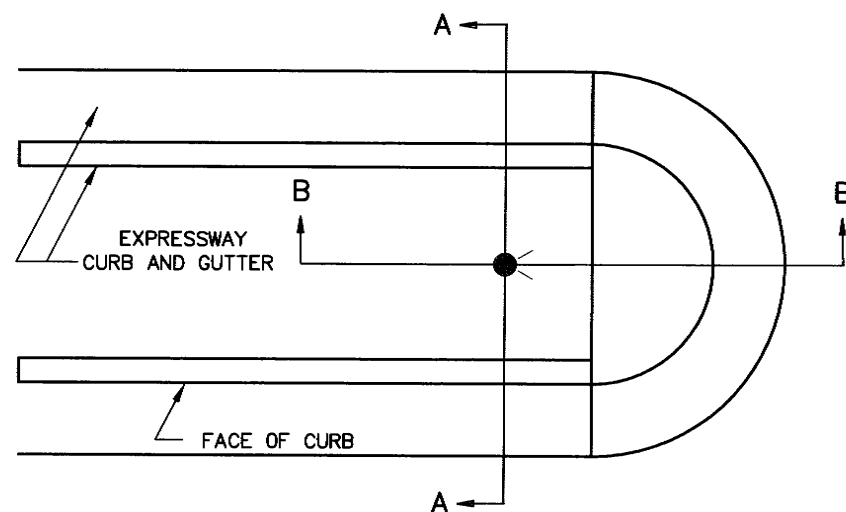
1. STANDARD, DEPRESSED, AND EXPRESSWAY GUTTER PANS SHALL MATCH THE ROADWAY CROSS SLOPE IN THE HIGH SIDE OF SUPER ELEVATED AREAS. USE A 25 FOOT TRANSITION LENGTH, FROM POINT OF ZERO CROSS SLOPE TO INSIDE OF THE HORIZONTAL CURVE.



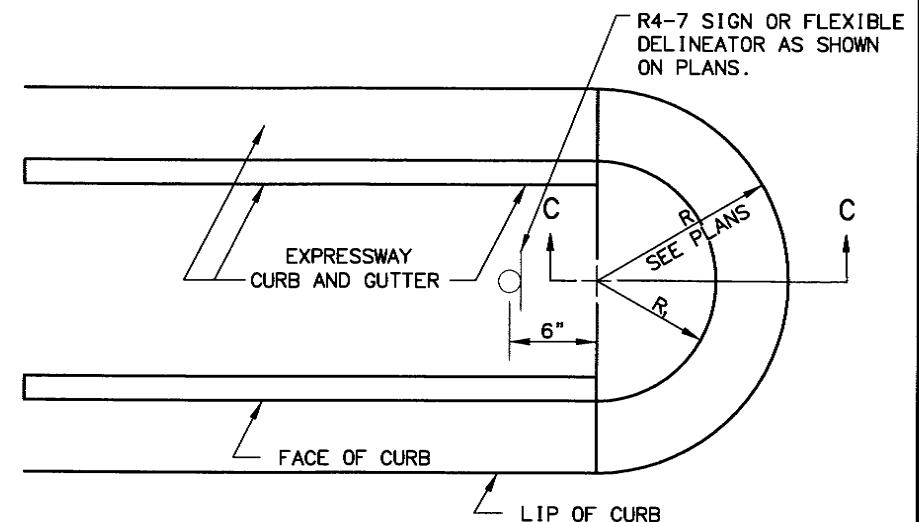
SECTION A-A



SECTION B-B

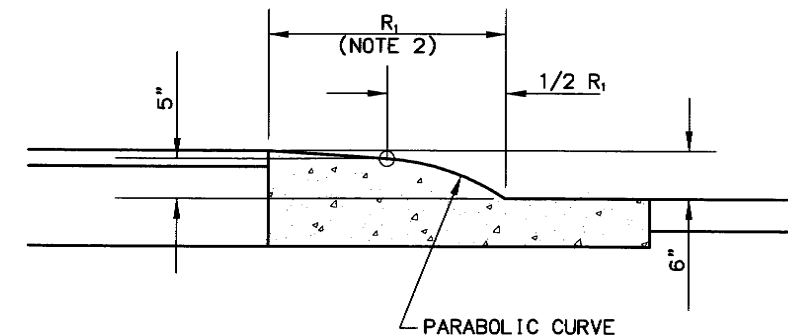


ISLAND NOSE
FLEXIBLE DELINEATOR DETAIL



NOTES:

1. ISLAND NOSE SHALL BE PAINTED WITH YELLOW REFLECTORIZED PAINT. SHAPING AND PAINTING WILL BE SUBSIDIARY.
2. CONSTRUCT ISLAND NOSE TO RADIUS POINT "R1" OR 3' WHICHEVER IS GREATER.



SECTION C-C

ISLAND NOSE DETAIL

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CURB & GUTTER DETAILS

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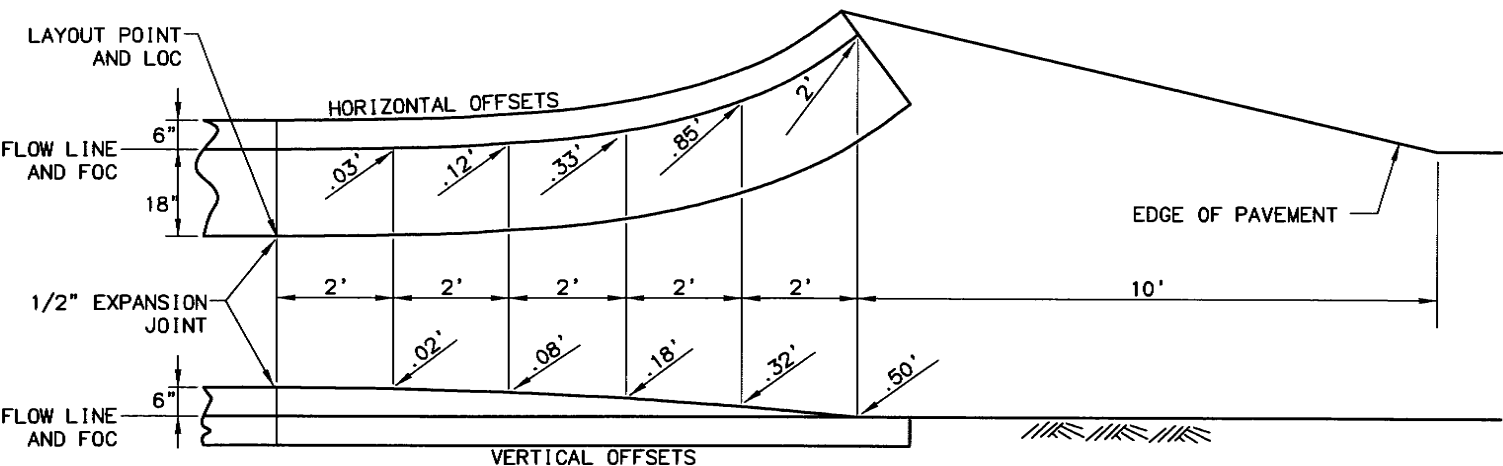
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CURB AND GUTTER
TERMINATION TRANSITIONS

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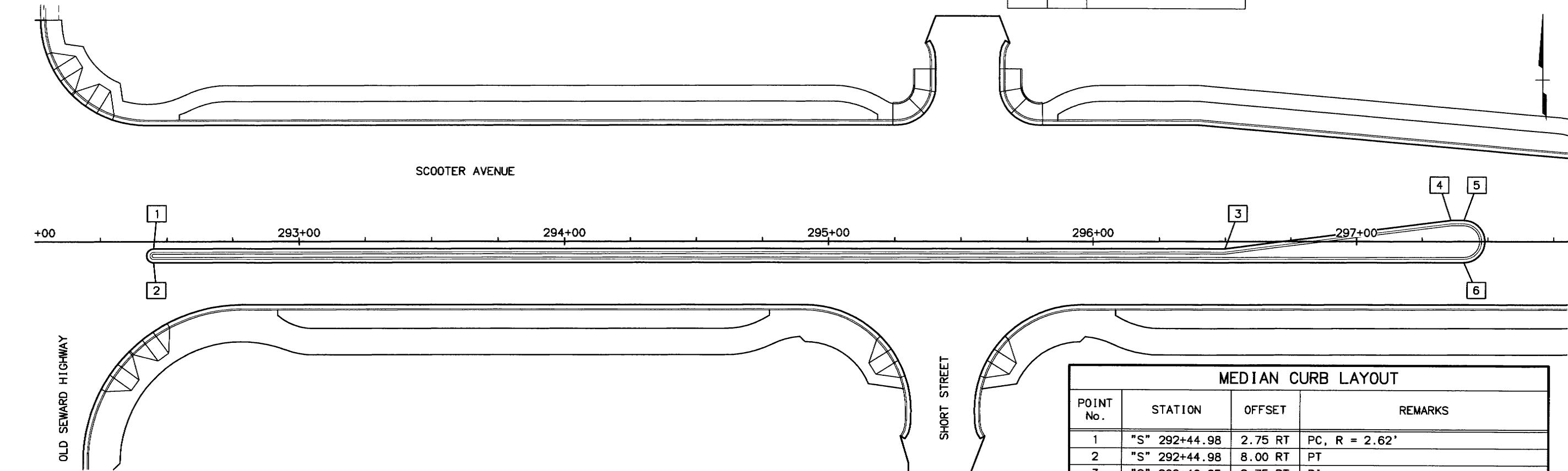
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CURB & GUTTER DETAILS

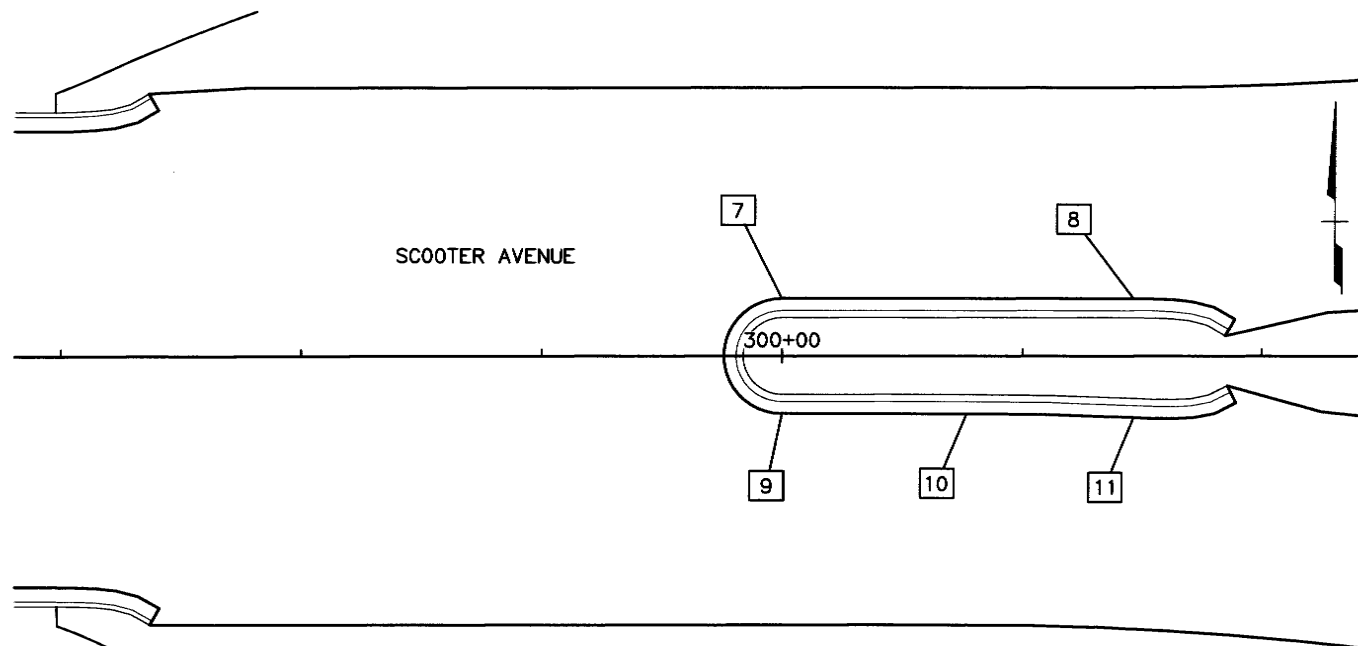
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	E5	E13



MEDIAN LAYOUT
"S" 292+42.4 TO "S" 297+48.9
SCALE: 1" = 20'

MEDIAN CURB LAYOUT			
POINT No.	STATION	OFFSET	REMARKS
1	"S" 292+44.98	2.75 RT	PC, R = 2.62'
2	"S" 292+44.98	8.00 RT	PT
3	"S" 296+49.85	2.75 RT	PI
4	"S" 297+35.85	8.00 LT	PI
5	"S" 297+40.85	8.00 LT	PT
6	"S" 297+40.85	8.00 RT	PC, R = 8.00'



MEDIAN LAYOUT
"S" 299+94 TO "S" 300+47.2
SCALE: 1" = 10'

MEDIAN CURB LAYOUT			
POINT No.	STATION	OFFSET	REMARKS
7	"S" 300+00.00	6.00 LT	PC, R = 6.00'
8	"S" 300+36.59	6.00 LT	CURB TERMINATION
9	"S" 300+00.00	6.00 RT	PT
10	"S" 300+19.21	6.00 RT	PC, R = 382.00'
11	"S" 300+36.71	6.40 RT	PT, CURB TERMINATION

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MEDIAN CURB LAYOUT

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CDB

SCALE

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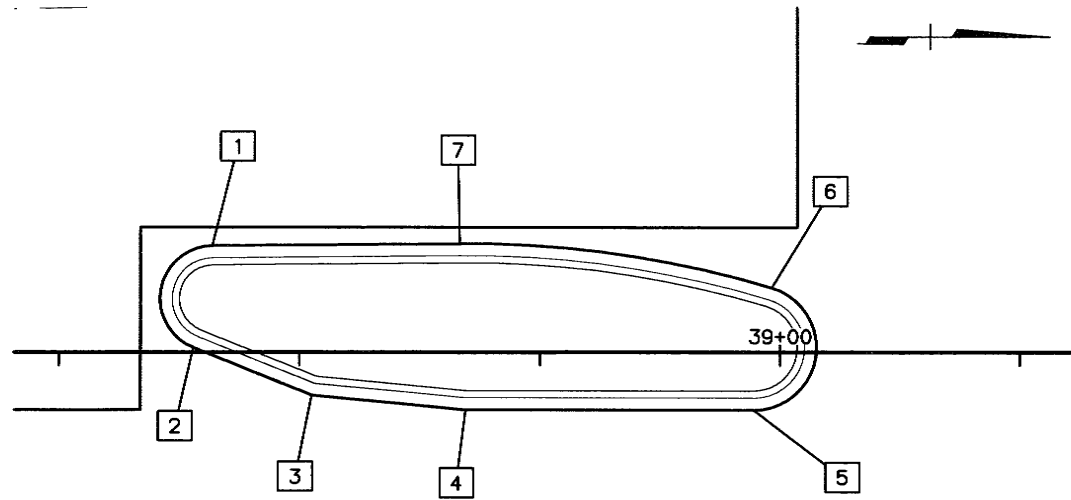
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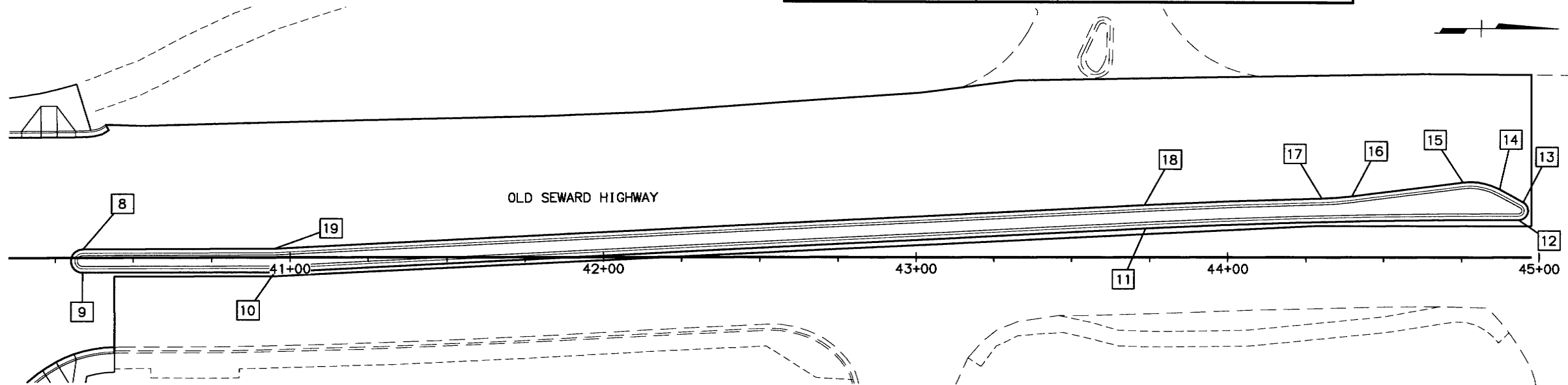
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	E6	E13



MEDIAN LAYOUT
"OS" 38+35.5 TO "OS" 39+04.8
SCALE: 1" = 10'

MEDIAN CURB LAYOUT			
POINT No.	STATION	OFFSET	REMARKS
1	38+40.98	11.09 LT	PC, R = 5.50'
2	38+38.98	0.49 LT	PT
3	38+51.27	4.46 RT	PI
4	38+67.37	6.00 RT	PI
5	38+97.27	6.00 RT	PC, R = 6.50'
6	38+99.13	6.73 LT	PCC, R = 110.00'
7	38+66.79	11.31 LT	PI

MEDIAN CURB LAYOUT			
POINT No.	STATION	OFFSET	REMARKS
8	"OS" 40+33.85	2.75 LT	PC, R = 3.75'
9	"OS" 40+33.85	4.75 RT	PT
10	"OS" 40+95.05	4.75 RT	PI
11	"OS" 43+73.68	9.20 LT	PC, R = 2248.00'
12	"OS" 44+93.42	12.00 LT	PCC, R = 3.00'
13	"OS" 44+94.85	17.64 LT	PT
14	"OS" 44+87.19	21.76 LT	PC, R = 20.00'
15	"OS" 44+75.25	23.98 LT	PT
16	"OS" 44+39.75	19.54 LT	PC, R = 98.00'
17	"OS" 44+30.03	18.82 LT	PCC, R = 2255.50'
18	"OS" 43+73.31	16.69 LT	PT
19	"OS" 40+94.86	2.75 LT	PI



MEDIAN LAYOUT
"OS" 40+30.0 TO "OS" 44+96.05
SCALE: 1" = 20'

PS&E REVIEW 10/01/13

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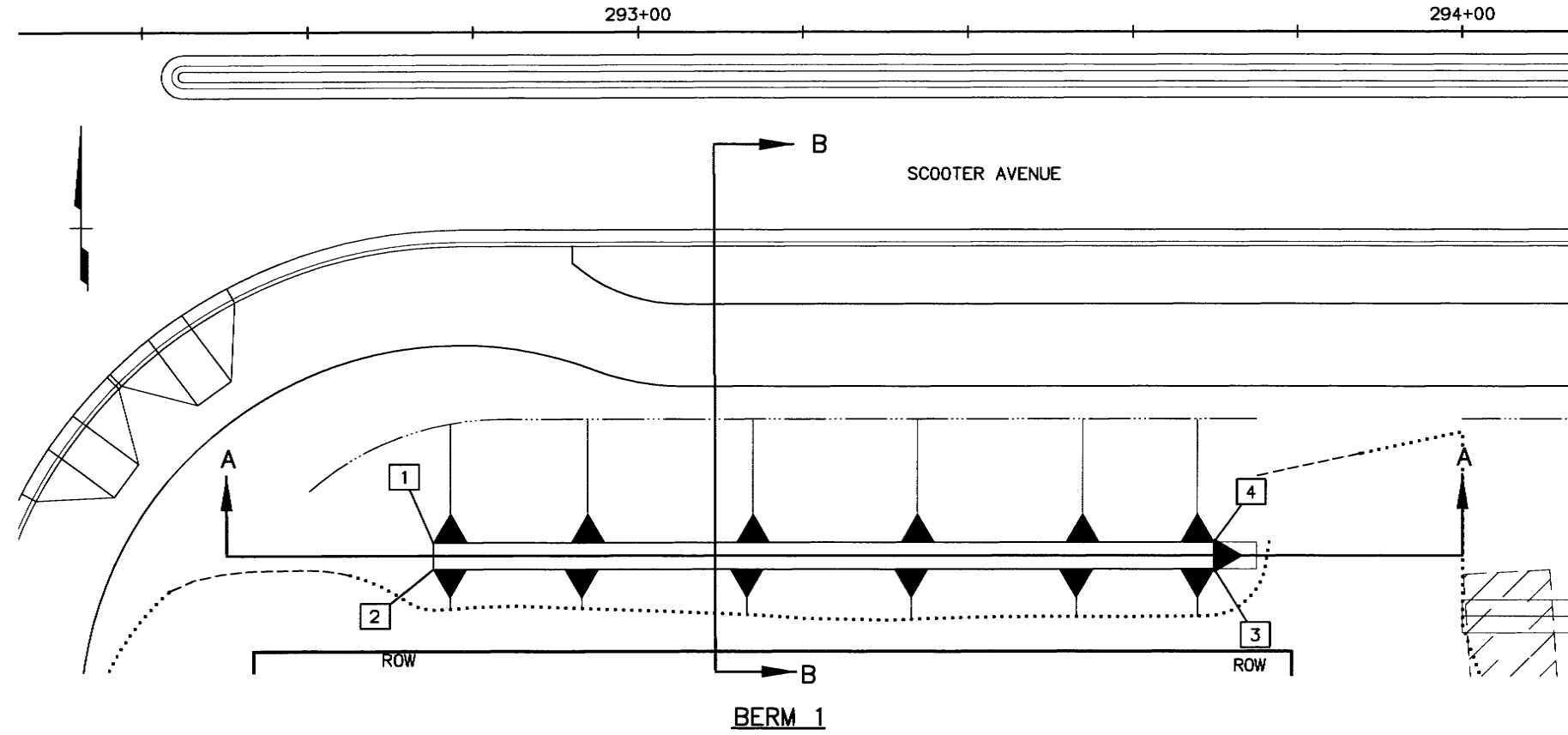
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

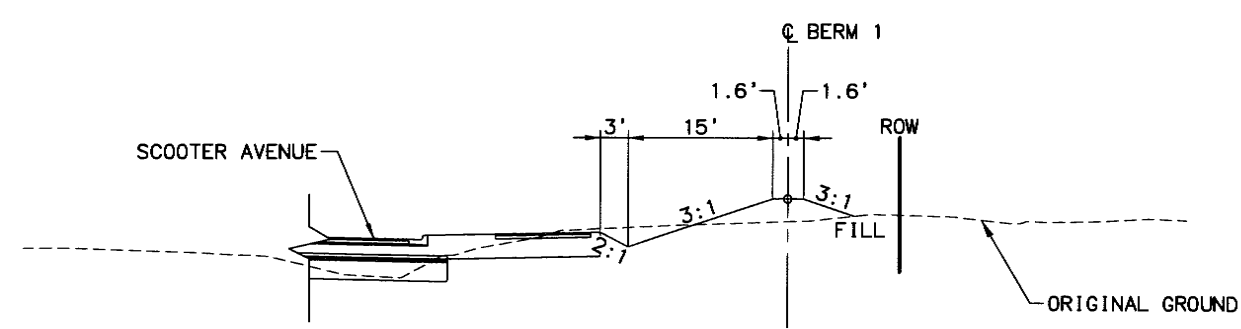
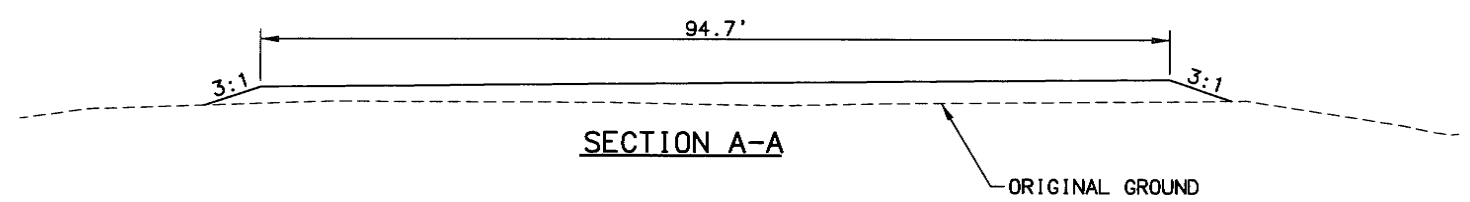
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DRAWING LOCATION
DATE TIME
LAYOUT SCALE
SHEETS
DESIGNED BY
CHECKED BY
DRAFTED BY
KAL
JUP

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	E7	E13



BERM LAYOUT SCHEDULE				
POINT No.	STATION	OFFSET	ELEV	REMARKS
1	"S" 292+75.1	62.0 RT	124.1	TOP OF BERM
2	"S" 292+75.0	65.3 RT	125.0	TOP OF BERM
3	"S" 293+69.7	65.3 RT	125.0	TOP OF BERM
4	"S" 293+69.7	62.0 RT	124.1	TOP OF BERM



SECTION B-B
N.T.S.

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STATE OF ALASKA
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AND PUBLIC FACILITIES

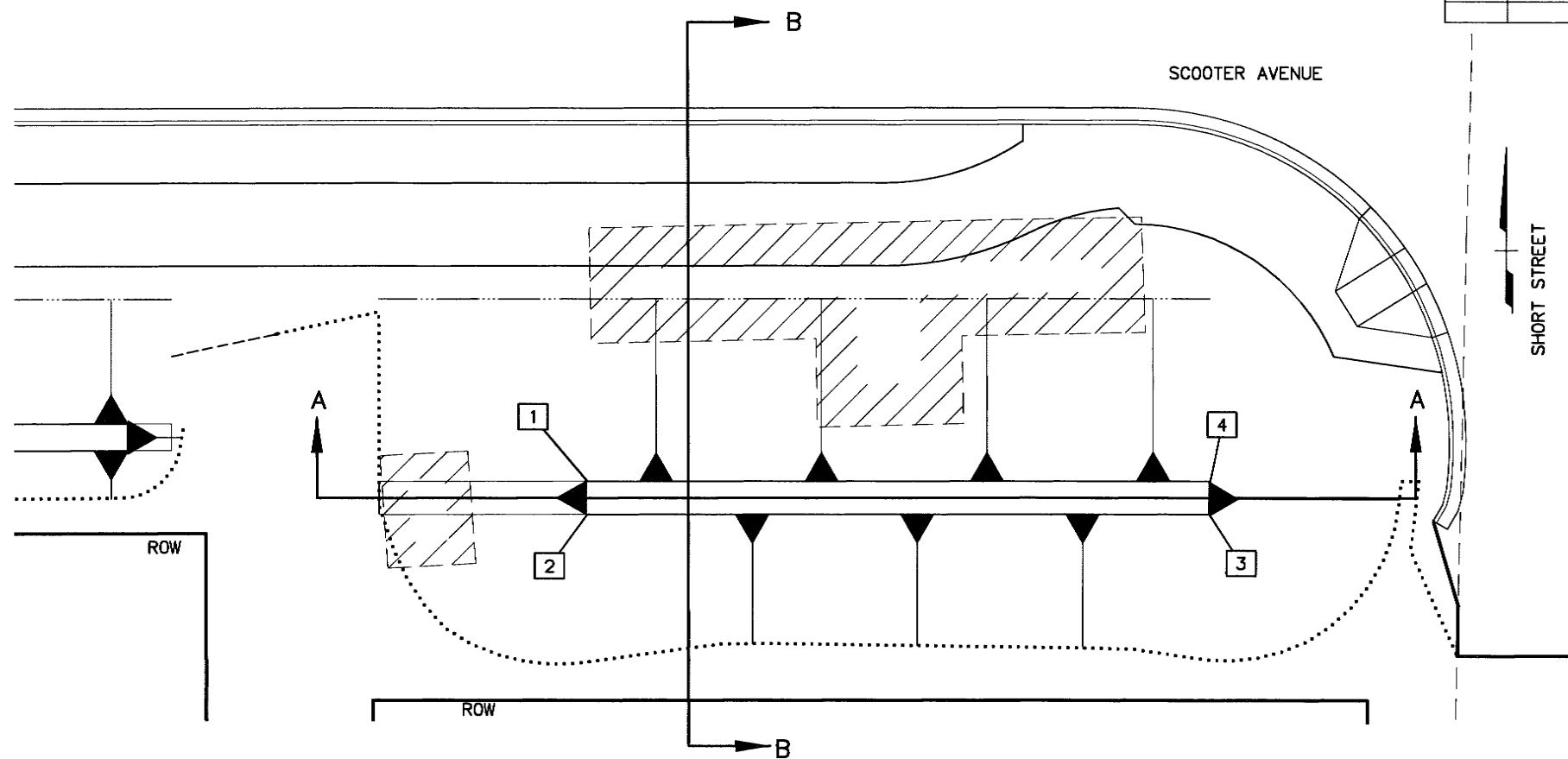
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

BERM 1
DETAILS

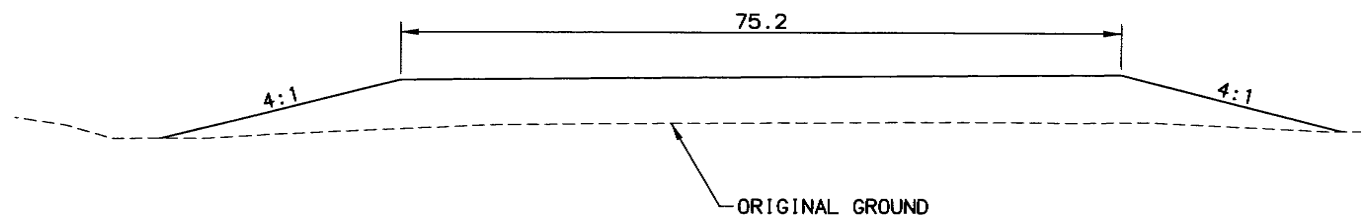
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LAYOUT DETAIL
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DESIGNED BY KAL
CHECKED BY JUF
DRAFTED BY

REVISIONS		
NO.	DATE	DESCRIPTION

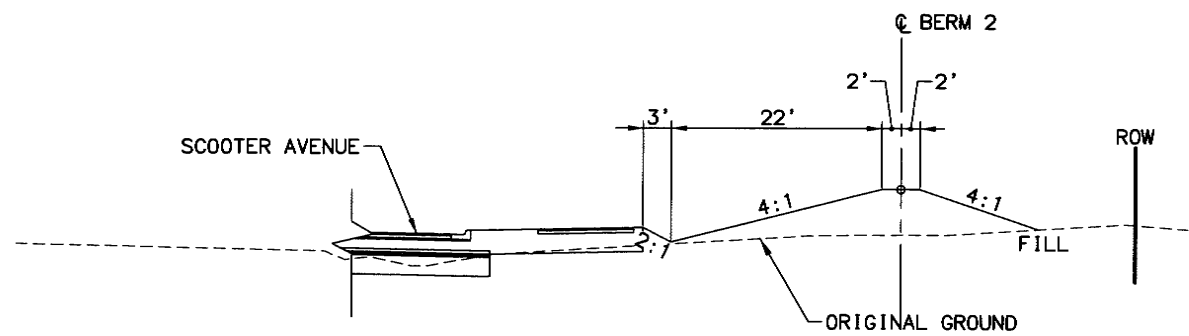
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	E8	E13



BERM LAYOUT SCHEDULE				
POINT No.	STATION	OFFSET	ELEV	REMARKS
1	"S" 294+25.0	69.0 RT	125.9	TOP OF BERM
2	"S" 294+25.0	73.0 RT	125.9	TOP OF BERM
3	"S" 295+00.0	73.0 RT	126.6	TOP OF BERM
4	"S" 295+00.0	69.0 RT	126.6	TOP OF BERM



SECTION A-A



SECTION B-B
N.T.S.

PS&E REVIEW 10/01/13

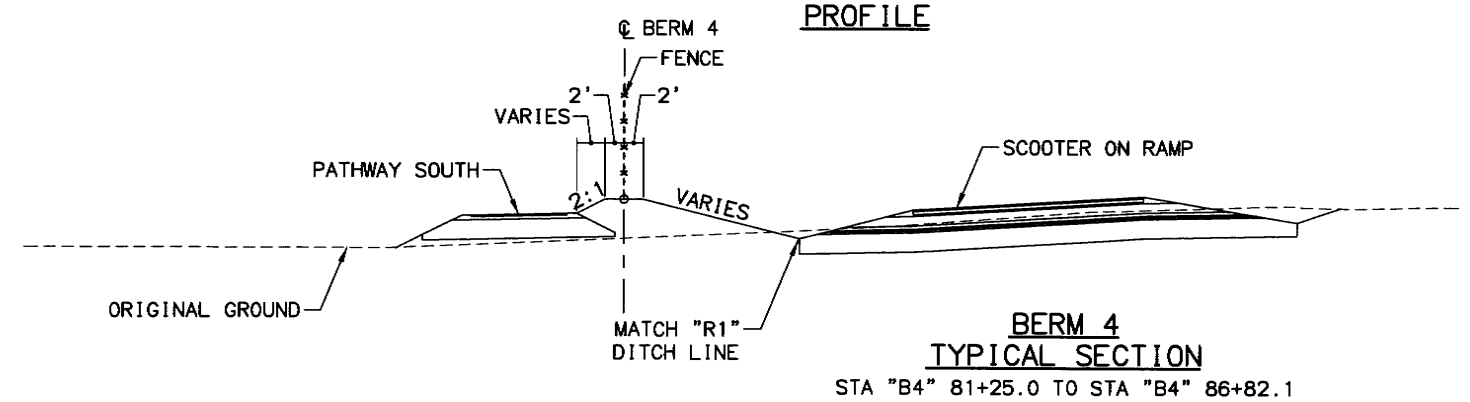
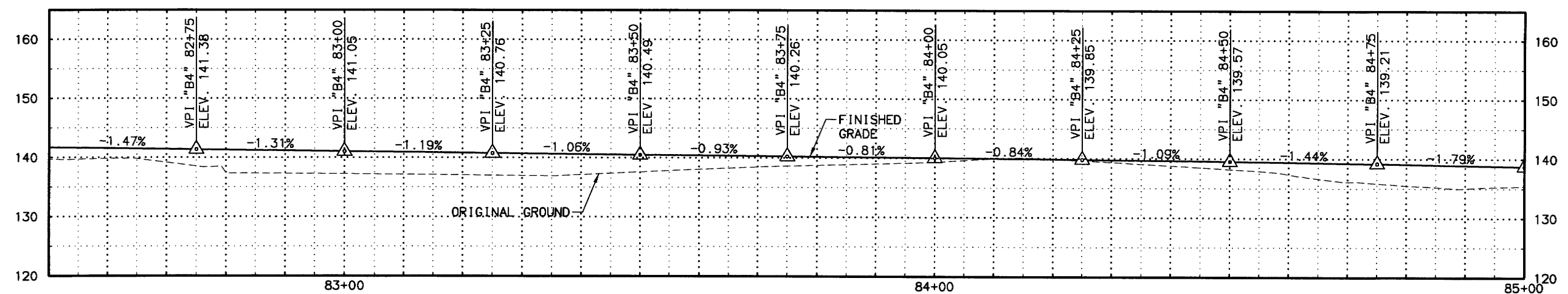
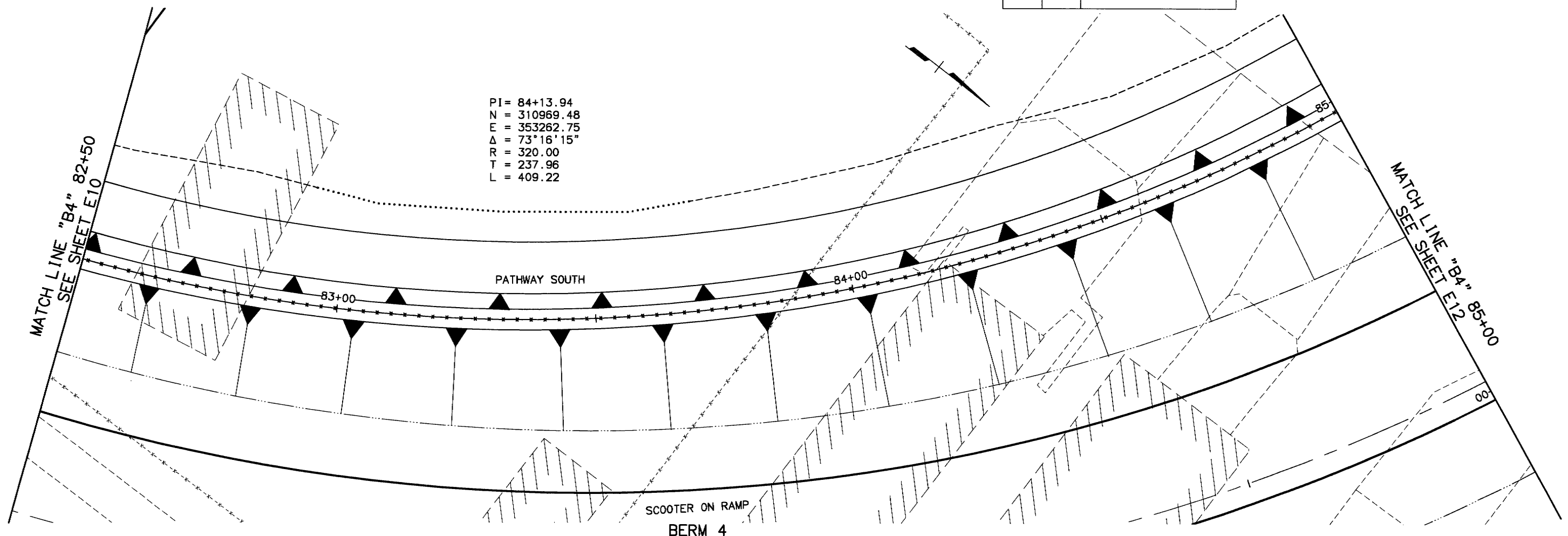
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR
BERM 2
DETAILS

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DATE
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DETAIL
SCALE
SHEET NO.
E11
DESIGNED BY
JMP
CHECKED BY
JMP
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JMP

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

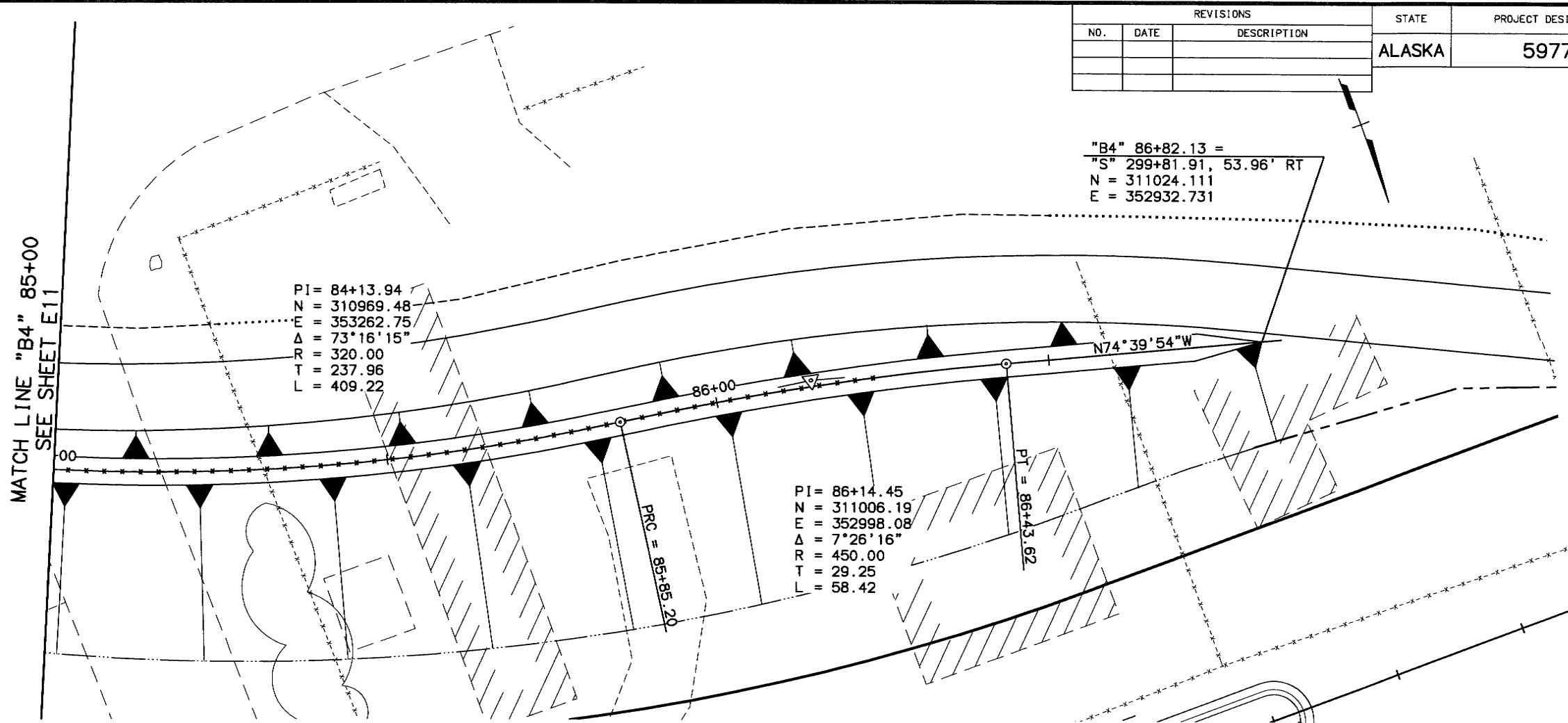
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

BERM 4
DETAILS

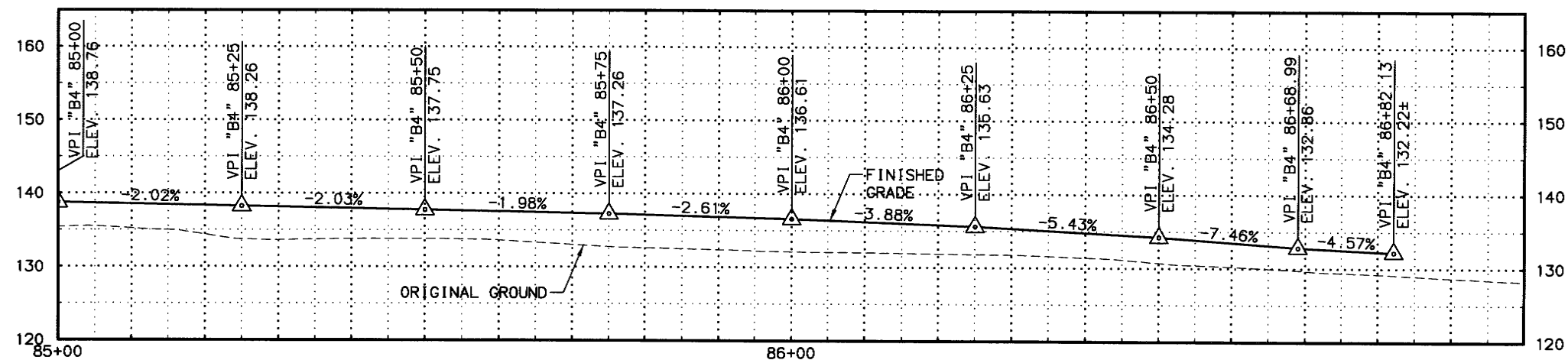
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DESIGNED BY KAL
CHECKED BY JMF
DRAFTED BY



BERM 4



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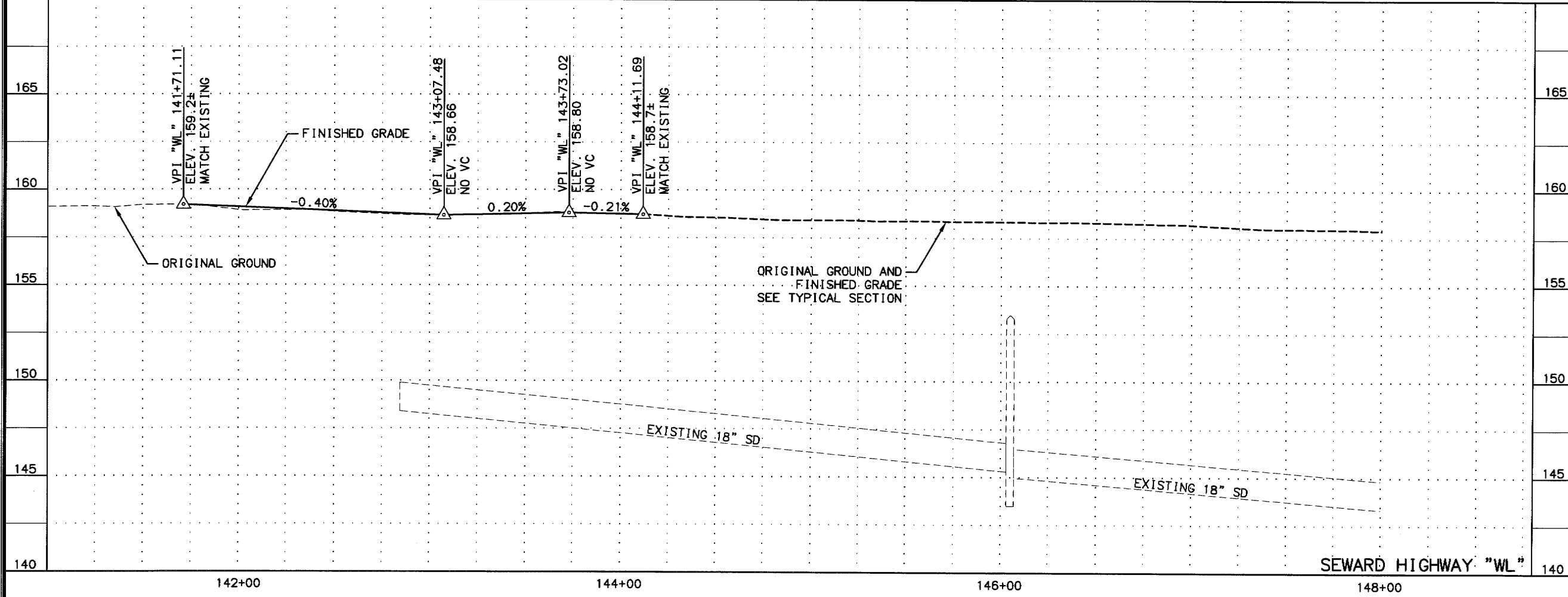
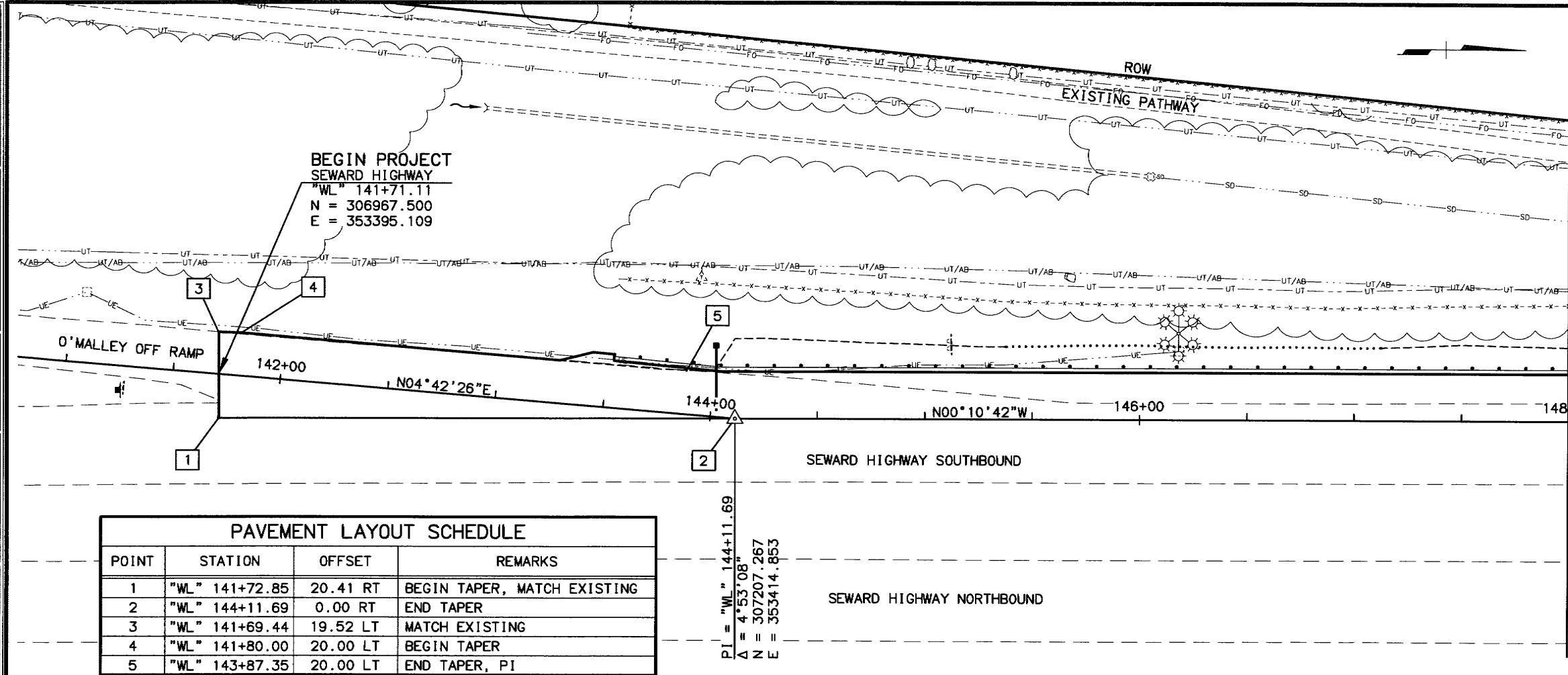
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

BERM 4
DETAILS

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SEWARD



SHEET NO.	TOTAL SHEETS	
F1	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

OLD SEWARD HIGHWAY

SCOOTER AVENUE

SEWARD HIGHWAY

O'MALLEY RD

PS&E REVIEW 10/01/13

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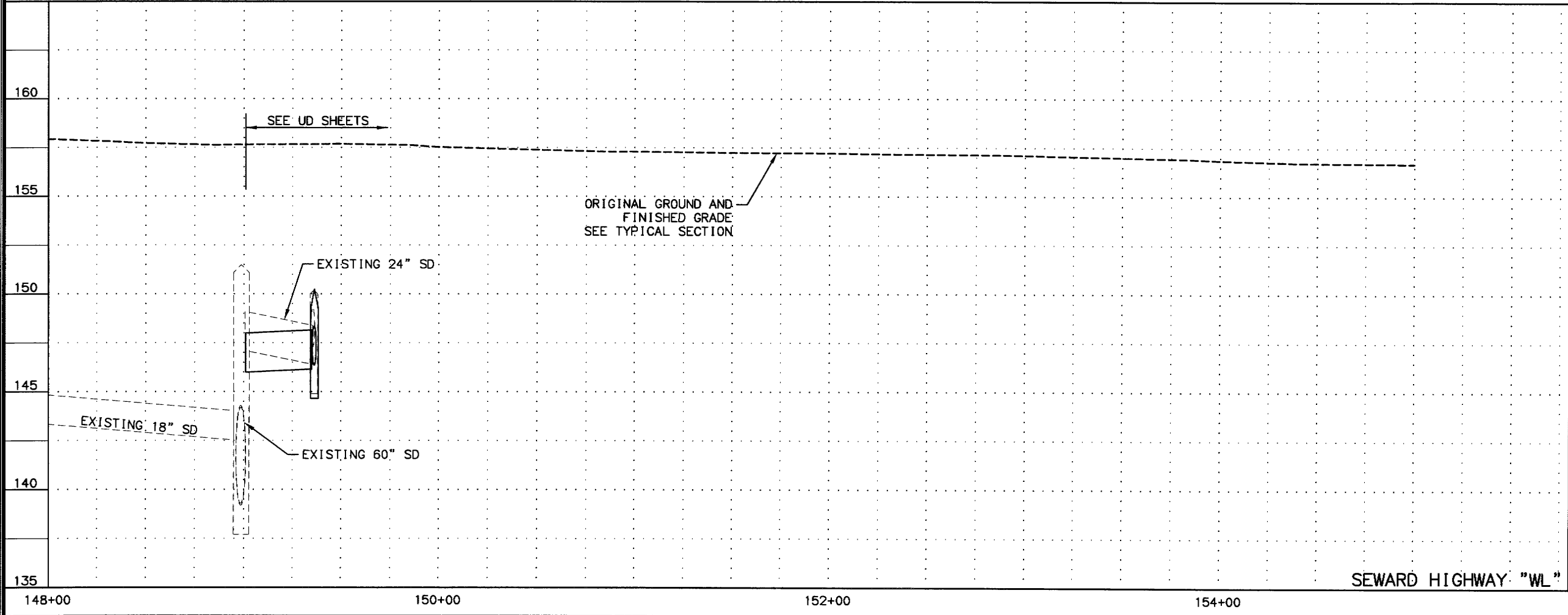
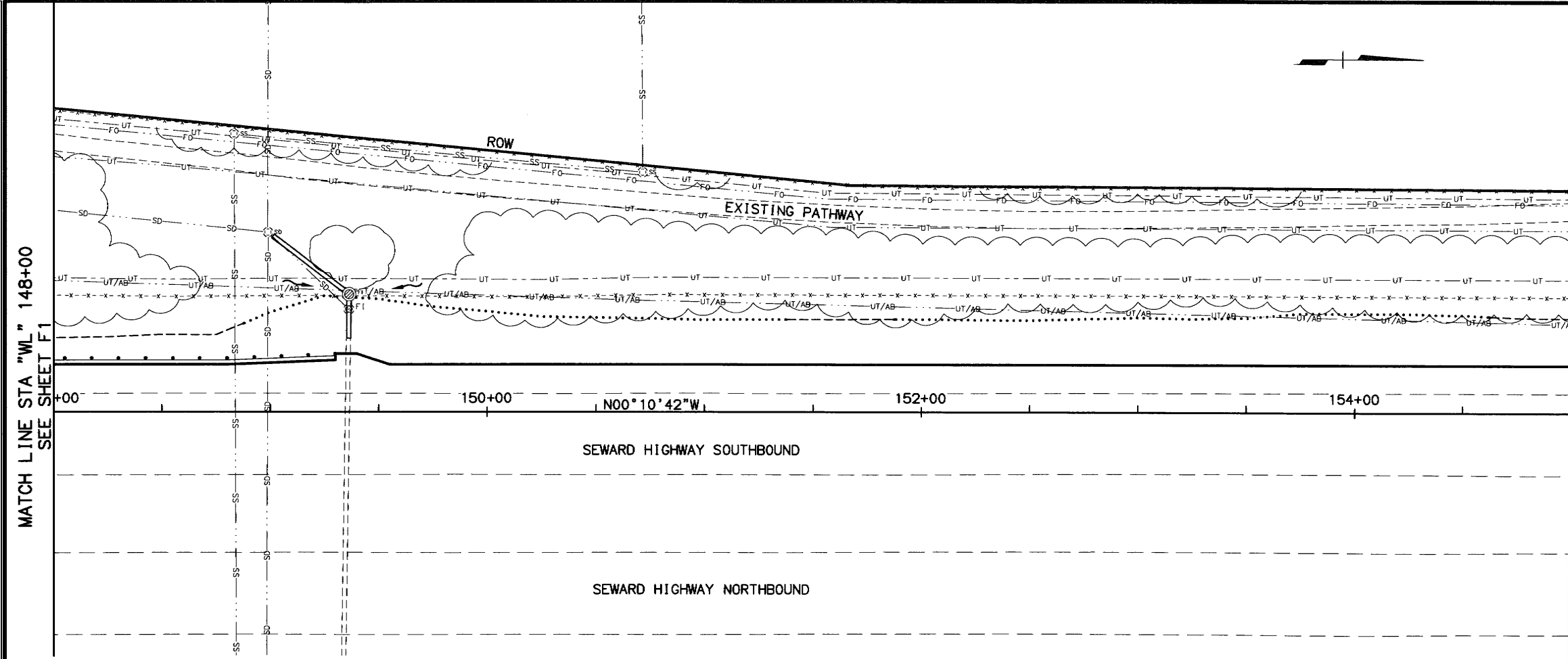
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SEWARD HIGHWAY
PLAN & PROFILE
"WL" 141+71 TO "WL" 148+00

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COURTBURGER



SHEET NO.	TOTAL SHEETS	
F2	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

O'MALLEY RD
PS&E REVIEW 10/01/13

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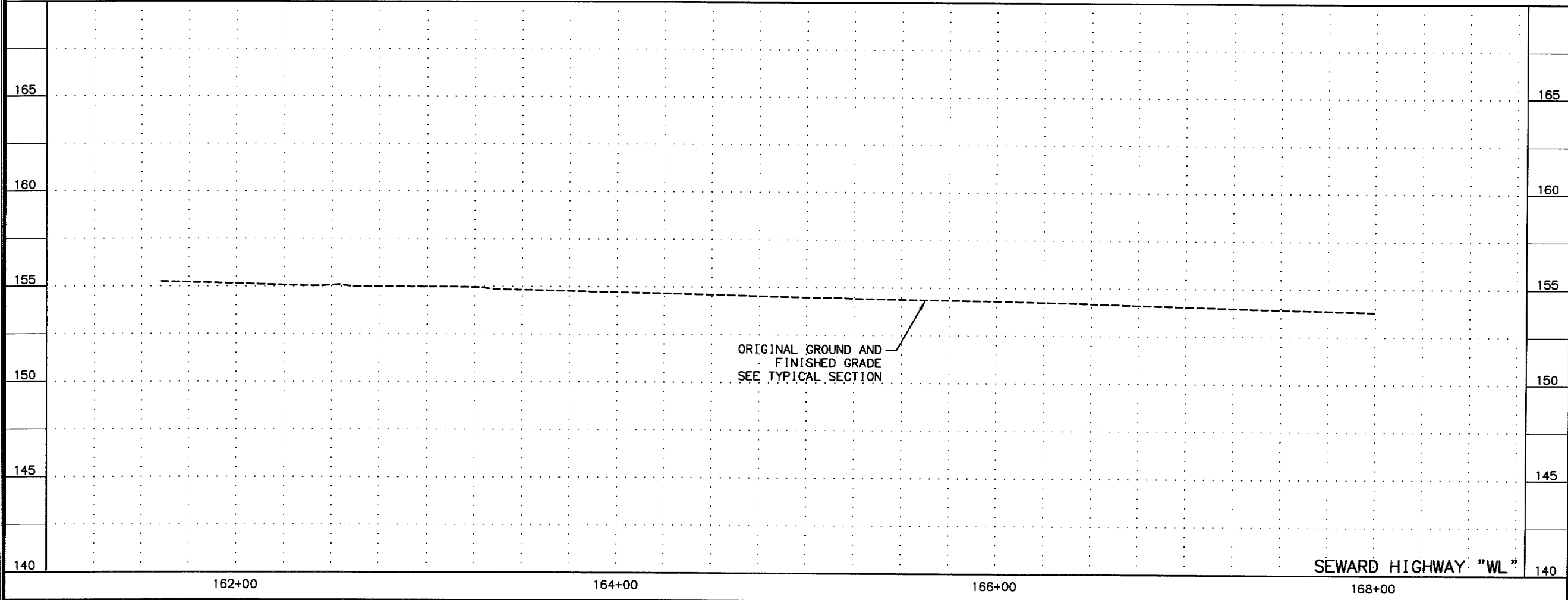
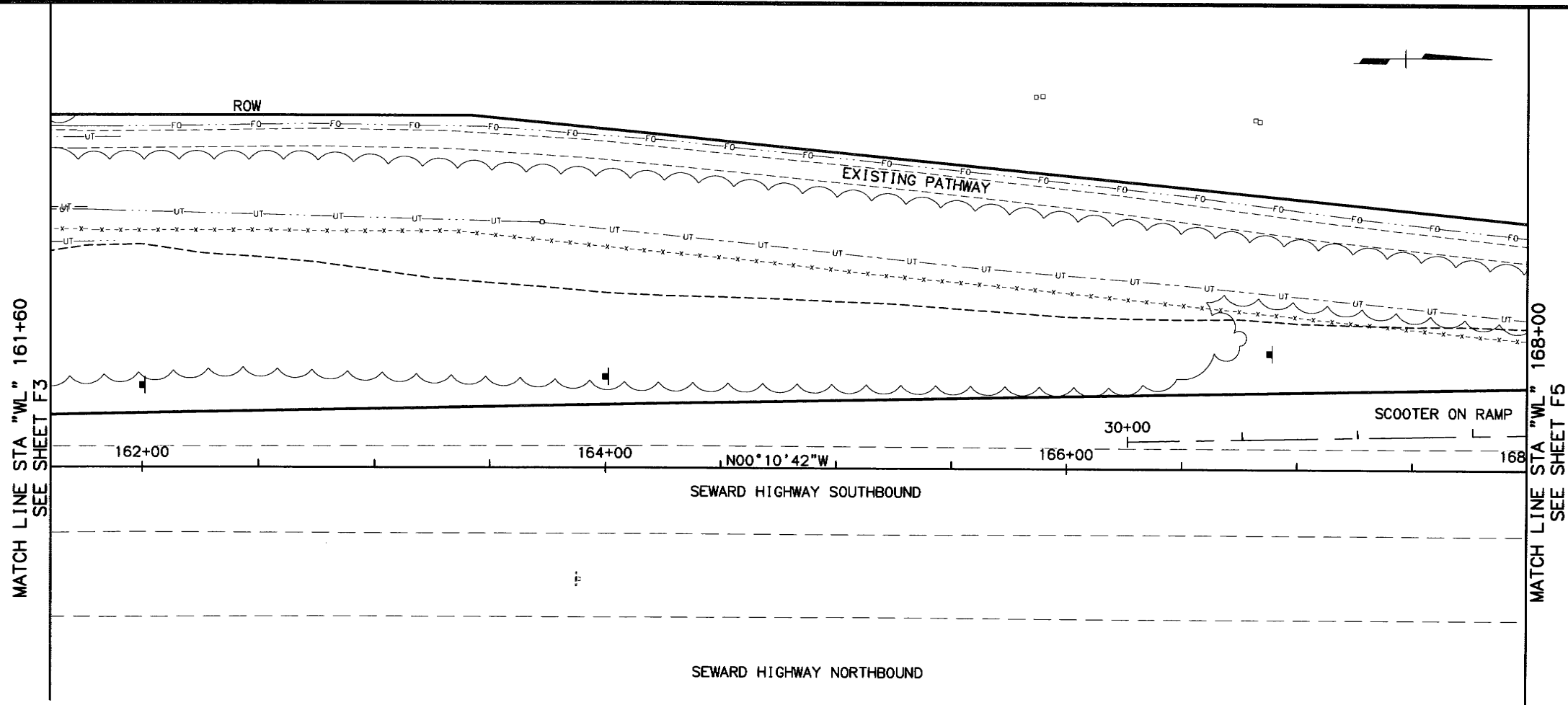
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

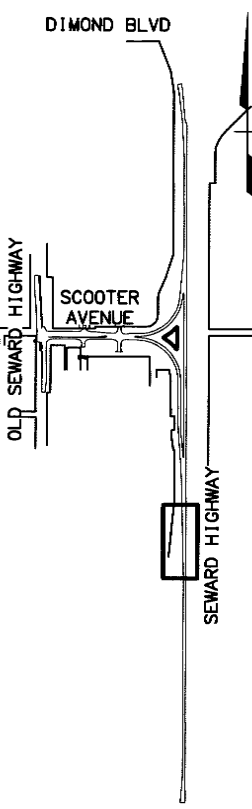
SEWARD HIGHWAY
PLAN & PROFILE
"WL" 148+00 TO "WL" 155+00

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DESIGNED BY DLF
CHECKED BY JMF
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SEWARD HIGHWAY "WL"
"WL" 161+60 TO "WL" 168+00

SHEET NO.		TOTAL SHEETS	
F4		F26	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	



DIMOND BLVD

OLD SEWARD HIGHWAY

SCOOTER AVENUE

SEWARD HIGHWAY

O'MALLEY RD

PS&E REVIEW 10/01/13

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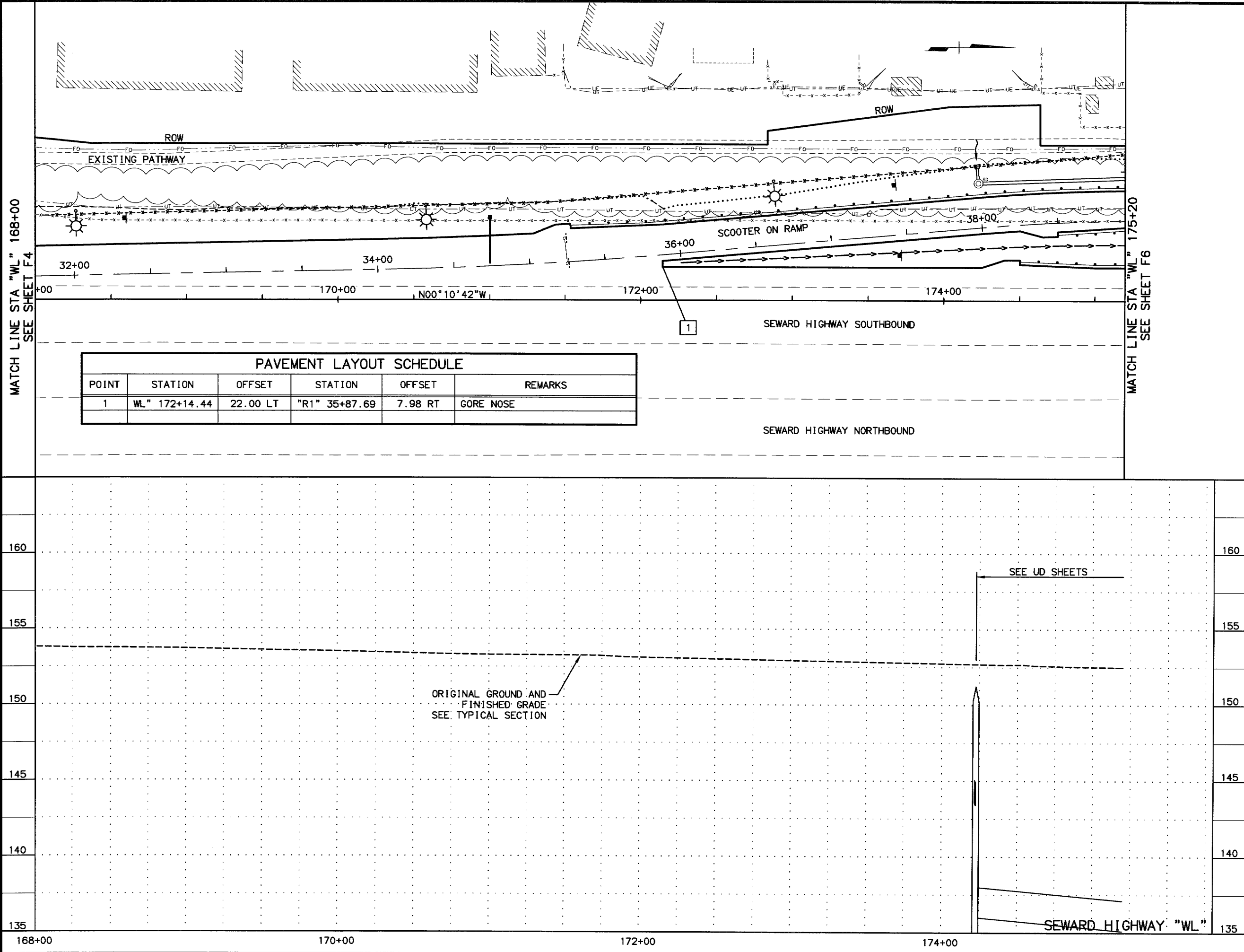
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SEWARD HIGHWAY
PLAN & PROFILE
"WL" 161+60 TO "WL" 168+00

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SHEET NO.	TOTAL SHEETS	
F5	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

OLD SEWARD HIGHWAY

SCOOTER AVENUE

SEWARD HIGHWAY

O'MALLEY RD

PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SEWARD HIGHWAY
PLAN & PROFILE
"WL" 168+00 TO "WL" 175+20

DESIGNED BY DTF
CHECKED BY JMF
DRAFTED BY CUB

AREAS

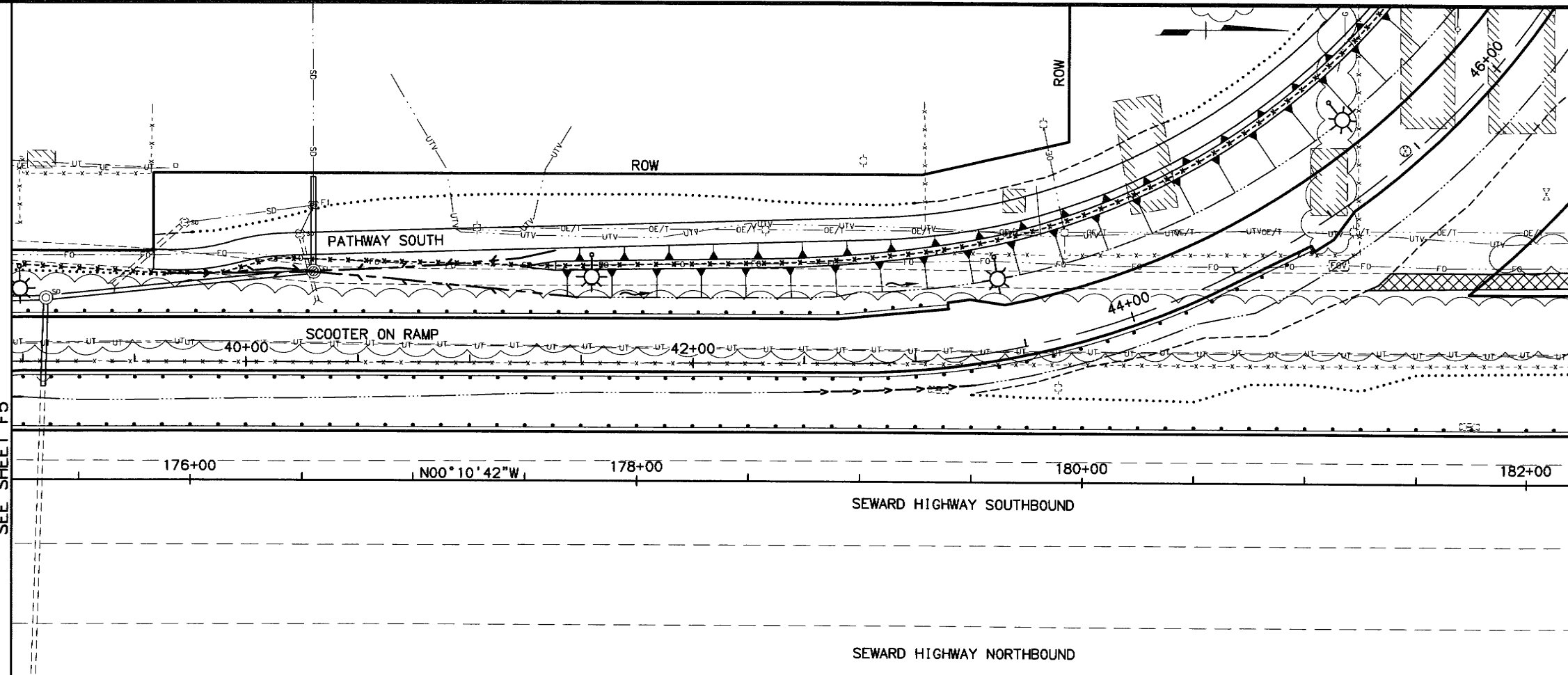
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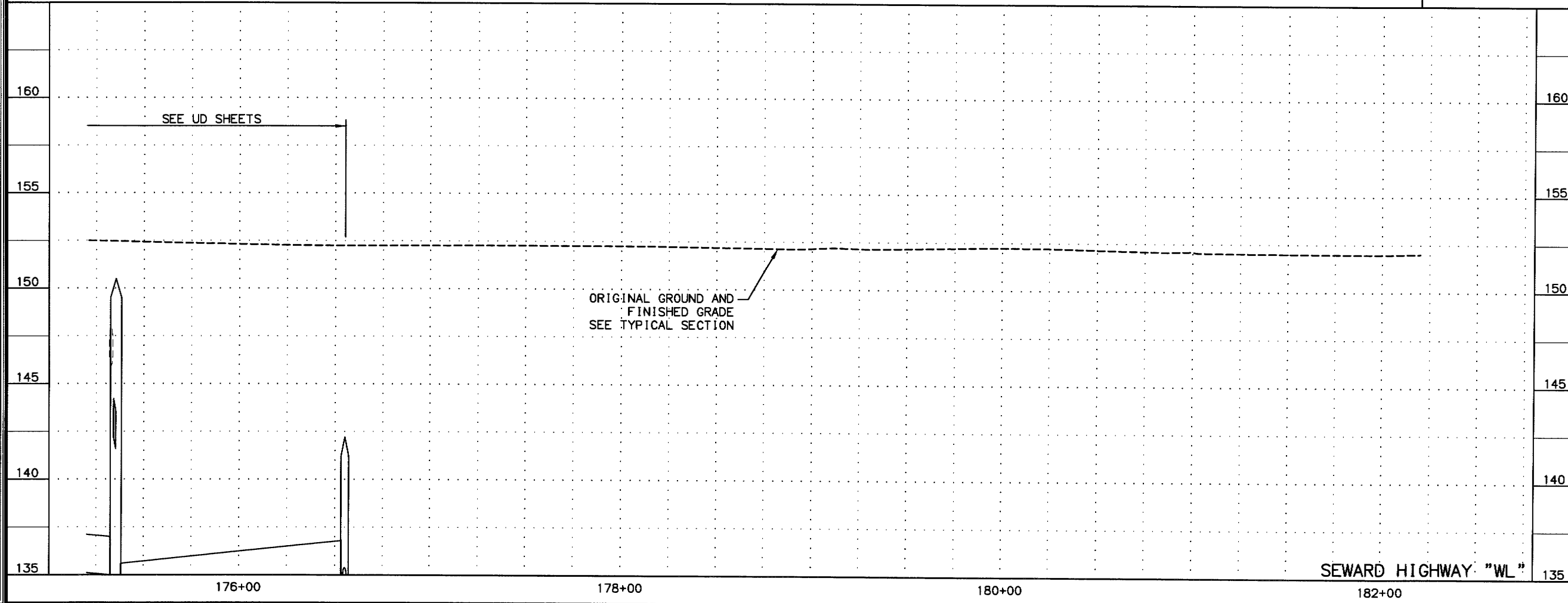
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MATCH LINE STA "WL" 175+20
SEE SHEET F5



MATCH LINE STA "WL" 182+20
SEE SHEET F7



SHEET NO.	TOTAL SHEETS	
F6	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

OLD SEWARD HIGHWAY

SCOOTER AVENUE

SEWARD HIGHWAY

0' MALLEY RD

PS&E REVIEW 10/01/13

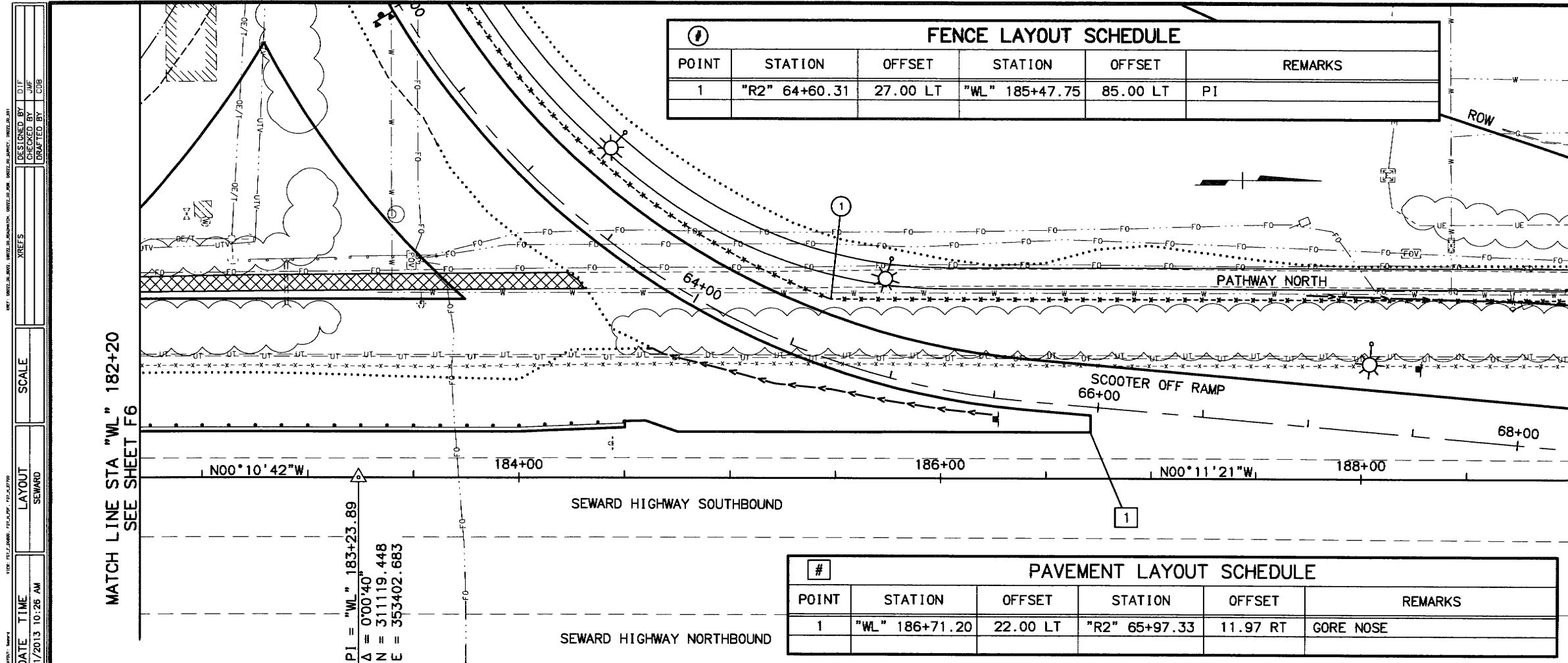
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SEWARD HIGHWAY
PLAN & PROFILE
"WL" 175+20 TO "WL" 182+20



SHEET NO. F7 TOTAL SHEETS F26

STATE ALASKA YEAR 2014

PROJECT DESIGNATION 59770

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

DIMOND BLVD

OLD SEWARD HIGHWAY

SCOOTER AVENUE

SEWARD HIGHWAY

0'MALLEY RD
PS&E REVIEW 10/01/13

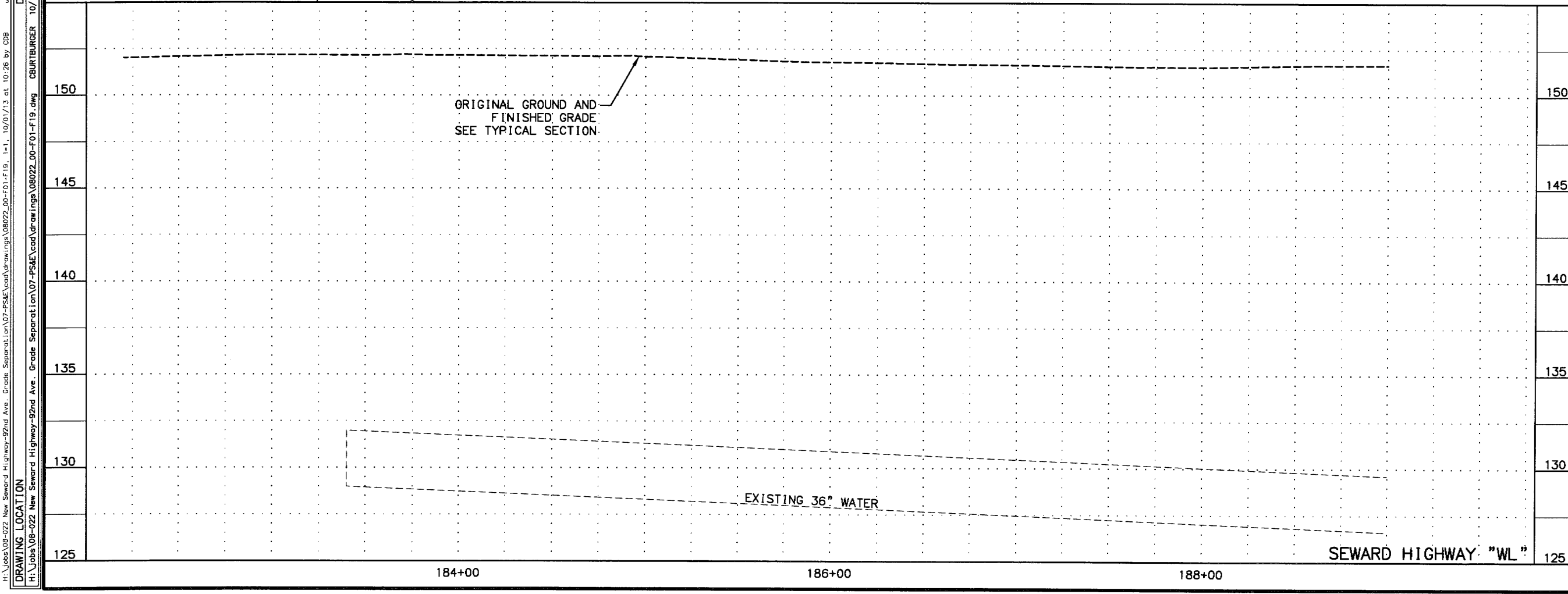
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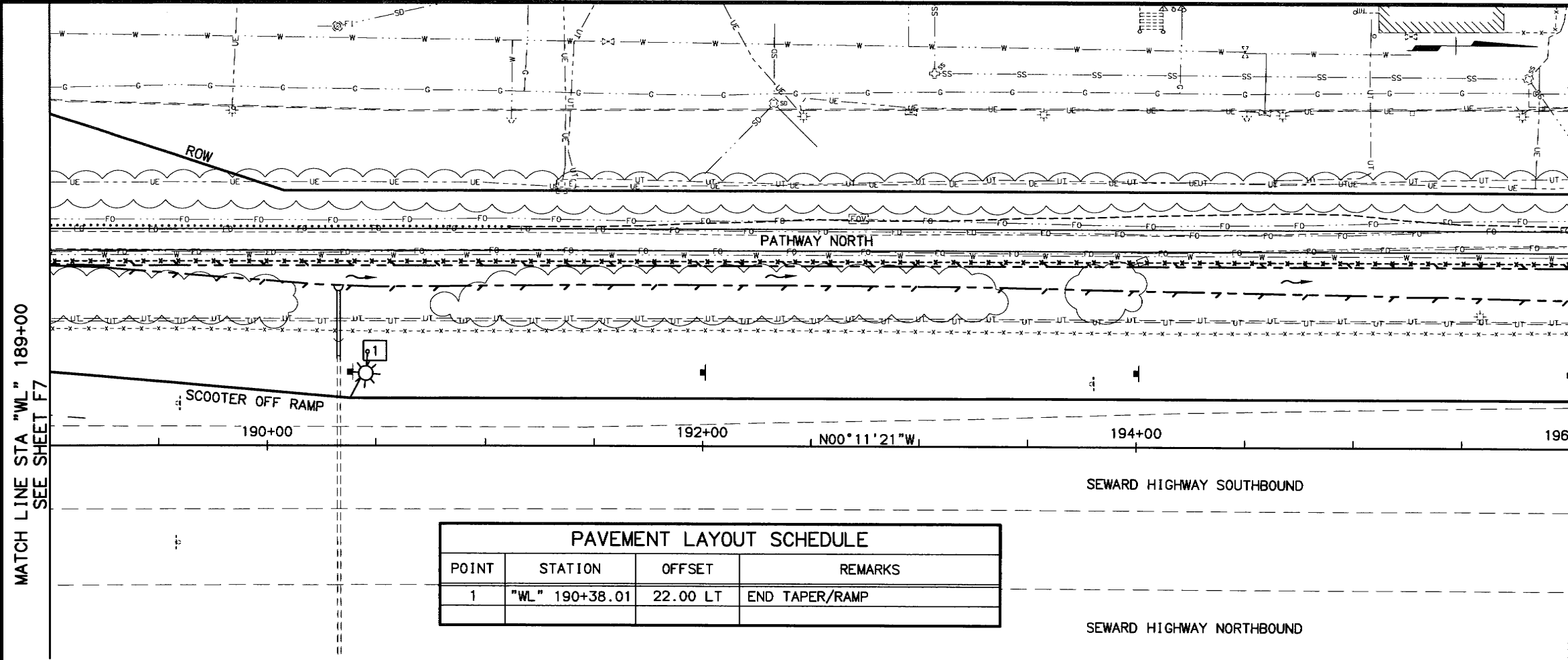
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

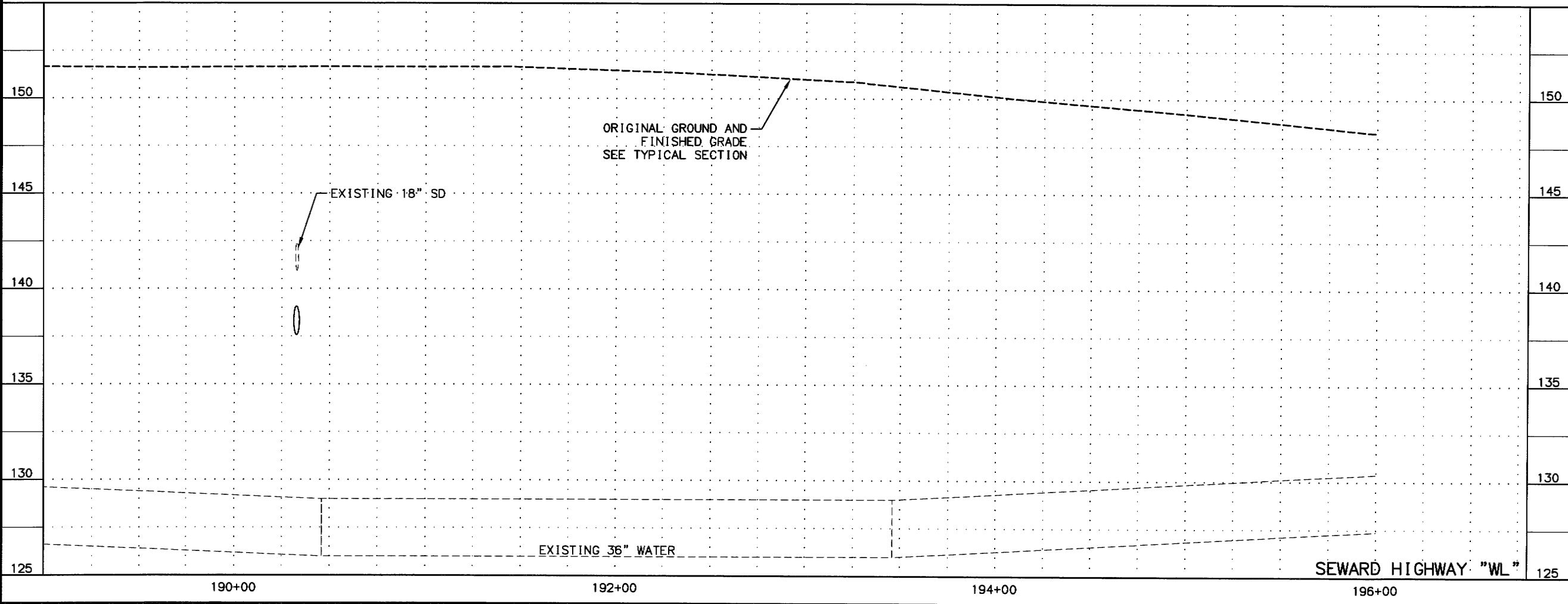
SEWARD HIGHWAY
PLAN & PROFILE
"WL" 182+20 TO "WL" 189+00



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SEWARD
XREFS
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PAVEMENT LAYOUT SCHEDULE			
POINT	STATION	OFFSET	REMARKS
1	"WL" 190+38.01	22.00 LT	END TAPER/RAMP



SHEET NO.	TOTAL SHEETS	
F8	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

OLD SEWARD HIGHWAY

SCOOTER AVENUE

SEWARD HIGHWAY

O'MALLEY RD
PS&E REVIEW 10/01/13

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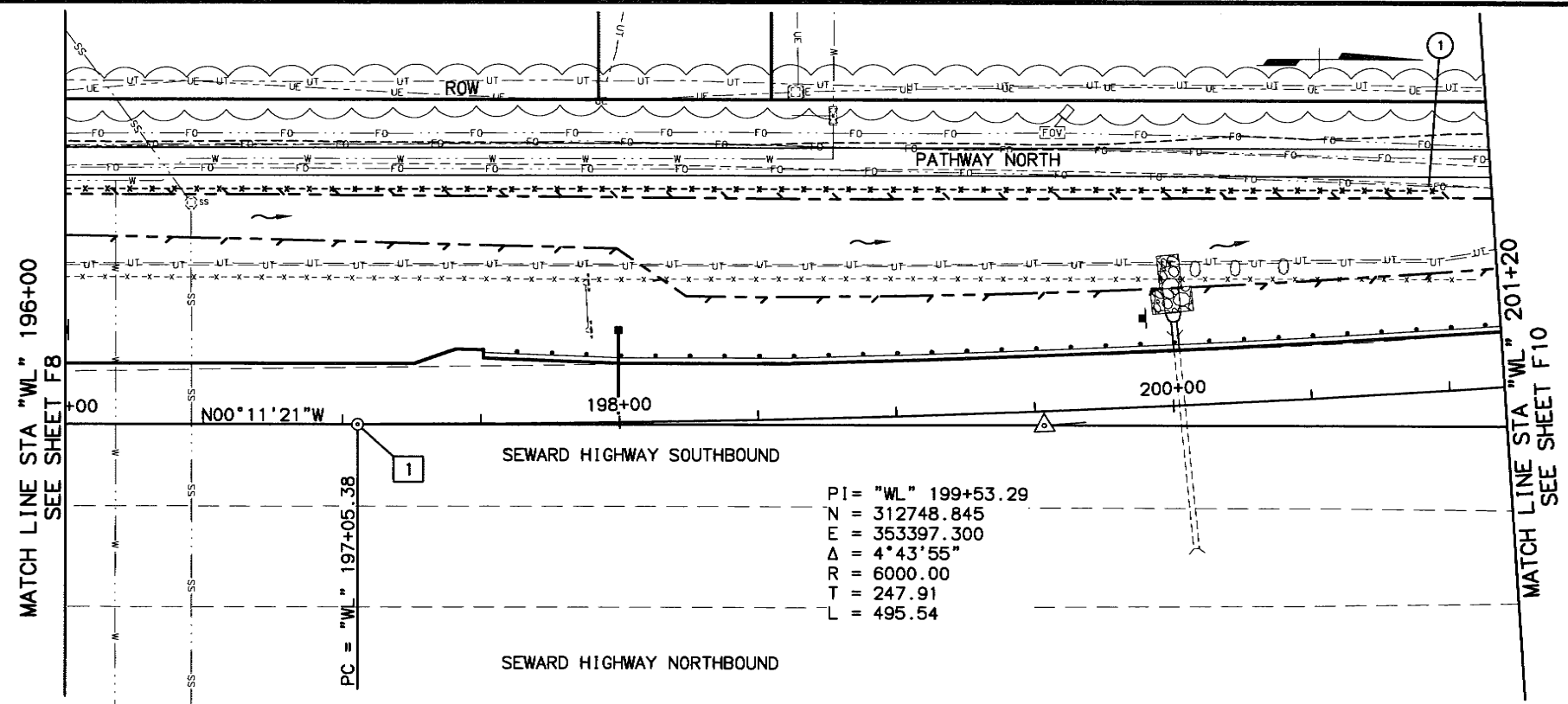
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

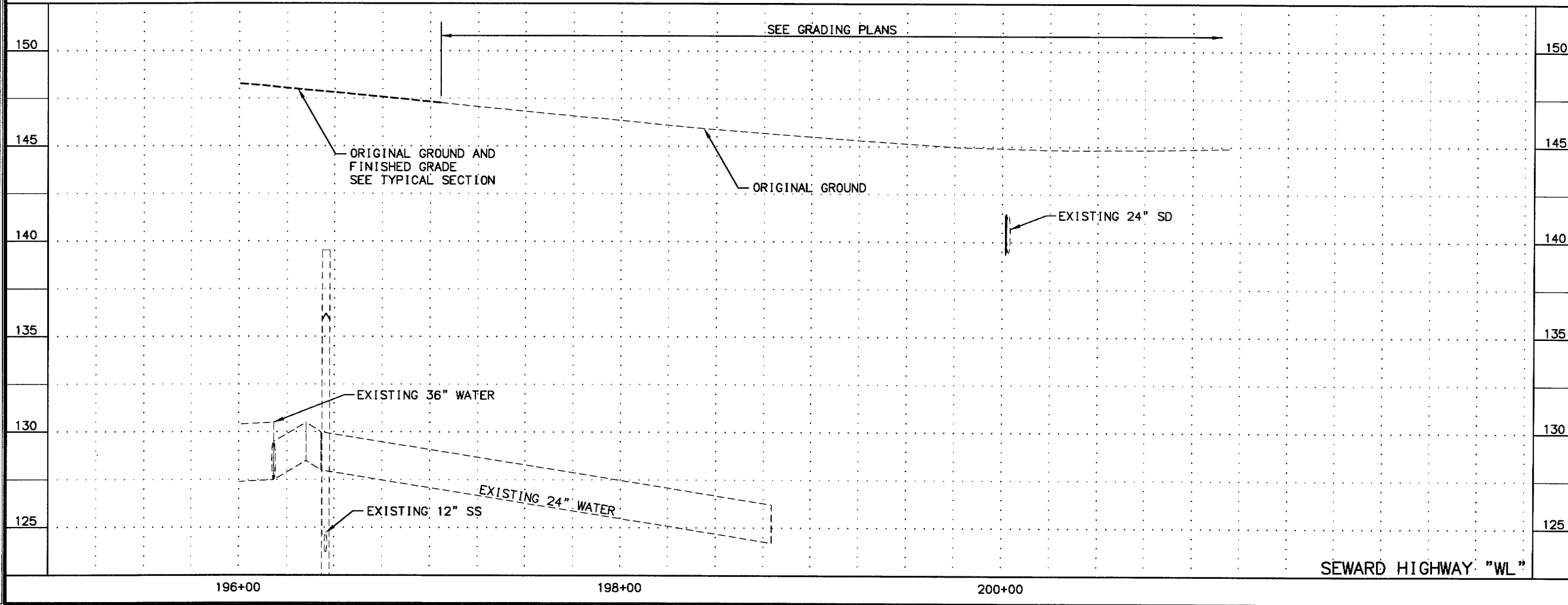
SEWARD HIGHWAY
PLAN & PROFILE
"WL" 189+00 TO "WL" 196+00

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DESIGNED BY DIF
CHECKED BY JMB
DRAFTED BY CDB
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LAYOUT
SEWARD
DATE
TIME
10/1/2013 10:26 AM



#	PAVEMENT LAYOUT SCHEDULE			
POINT	STATION	OFFSET	REMARKS	
1	"WL" 197+05.38	0.00 LT	BEGIN TAPER	

#	FENCE LAYOUT SCHEDULE			
POINT	STATION	OFFSET	REMARKS	
1	"WL" 201+00.00	72.18 LT	PI	



SHEET NO.	F9	TOTAL SHEETS	F26
STATE	ALASKA	YEAR	2014
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

DIMOND BLVD

OLD SEWARD HIGHWAY

SCOOTER AVENUE

SEWARD HIGHWAY

O'MALLEY RD
PS&E REVIEW 10/01/13

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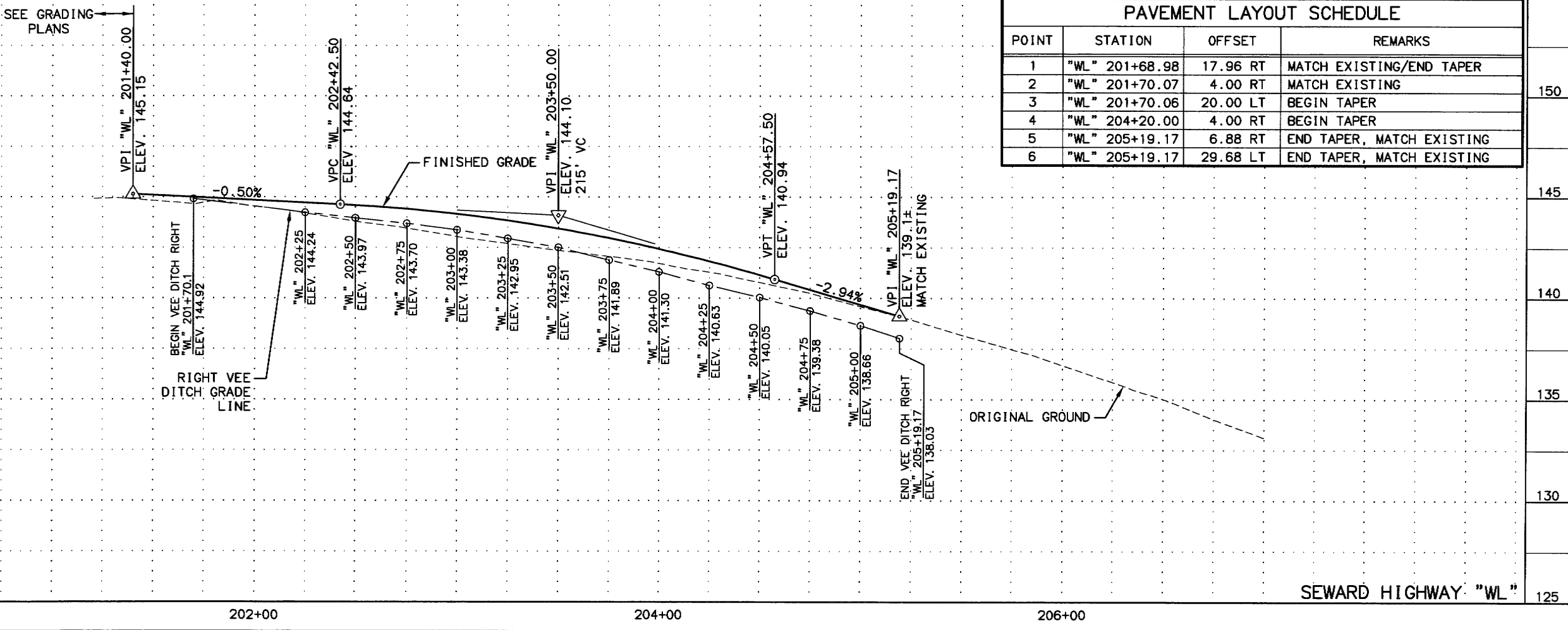
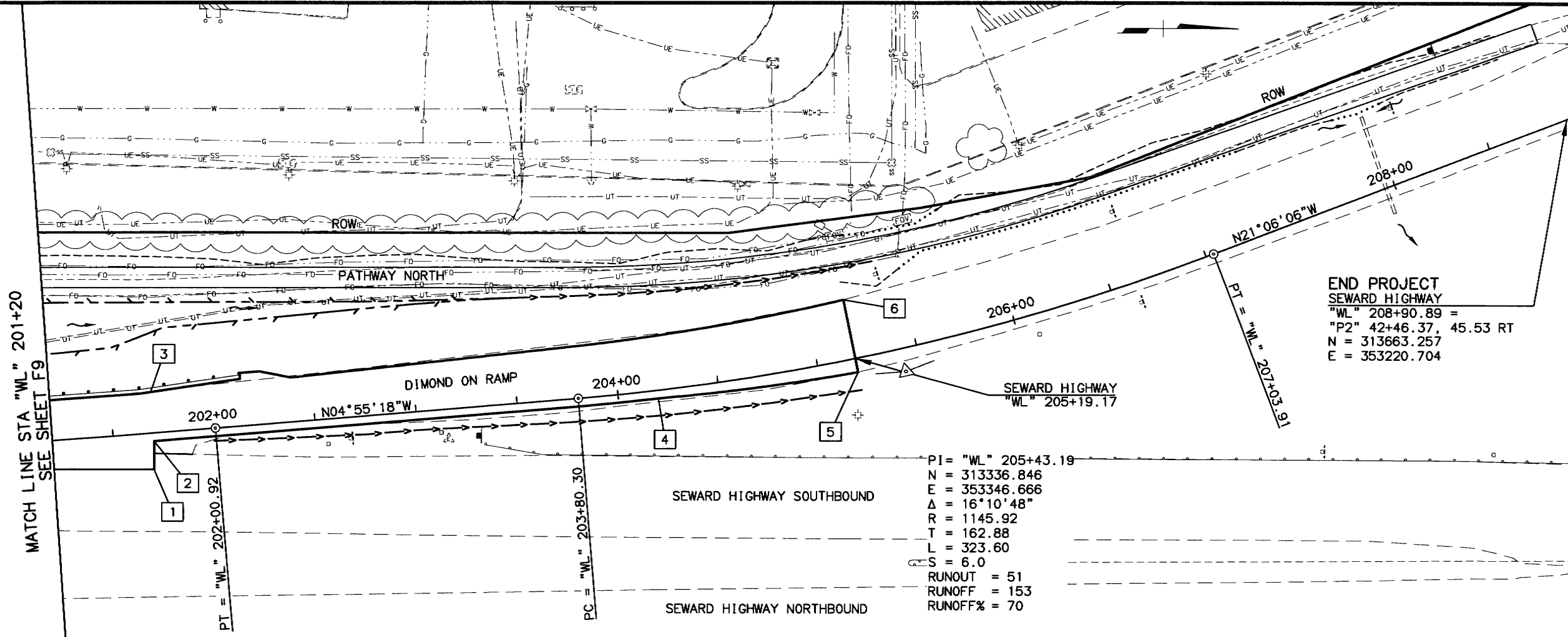
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SEWARD HIGHWAY
PLAN & PROFILE
"WL" 196+00 TO "WL" 201+20

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LAYOUT SEWARD
SCALE
XREF'S
DESIGNED BY DTF
CHECKED BY CDB
DRAFTED BY CDB



PAVEMENT LAYOUT SCHEDULE			
POINT	STATION	OFFSET	REMARKS
1	"WL" 201+68.98	17.96 RT	MATCH EXISTING/END TAPER
2	"WL" 201+70.07	4.00 RT	MATCH EXISTING
3	"WL" 201+70.06	20.00 LT	BEGIN TAPER
4	"WL" 204+20.00	4.00 RT	BEGIN TAPER
5	"WL" 205+19.17	6.88 RT	END TAPER, MATCH EXISTING
6	"WL" 205+19.17	29.68 LT	END TAPER, MATCH EXISTING

SHEET NO.	TOTAL SHEETS	
F10	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

O'MALLEY RD
PS&E REVIEW 10/01/13

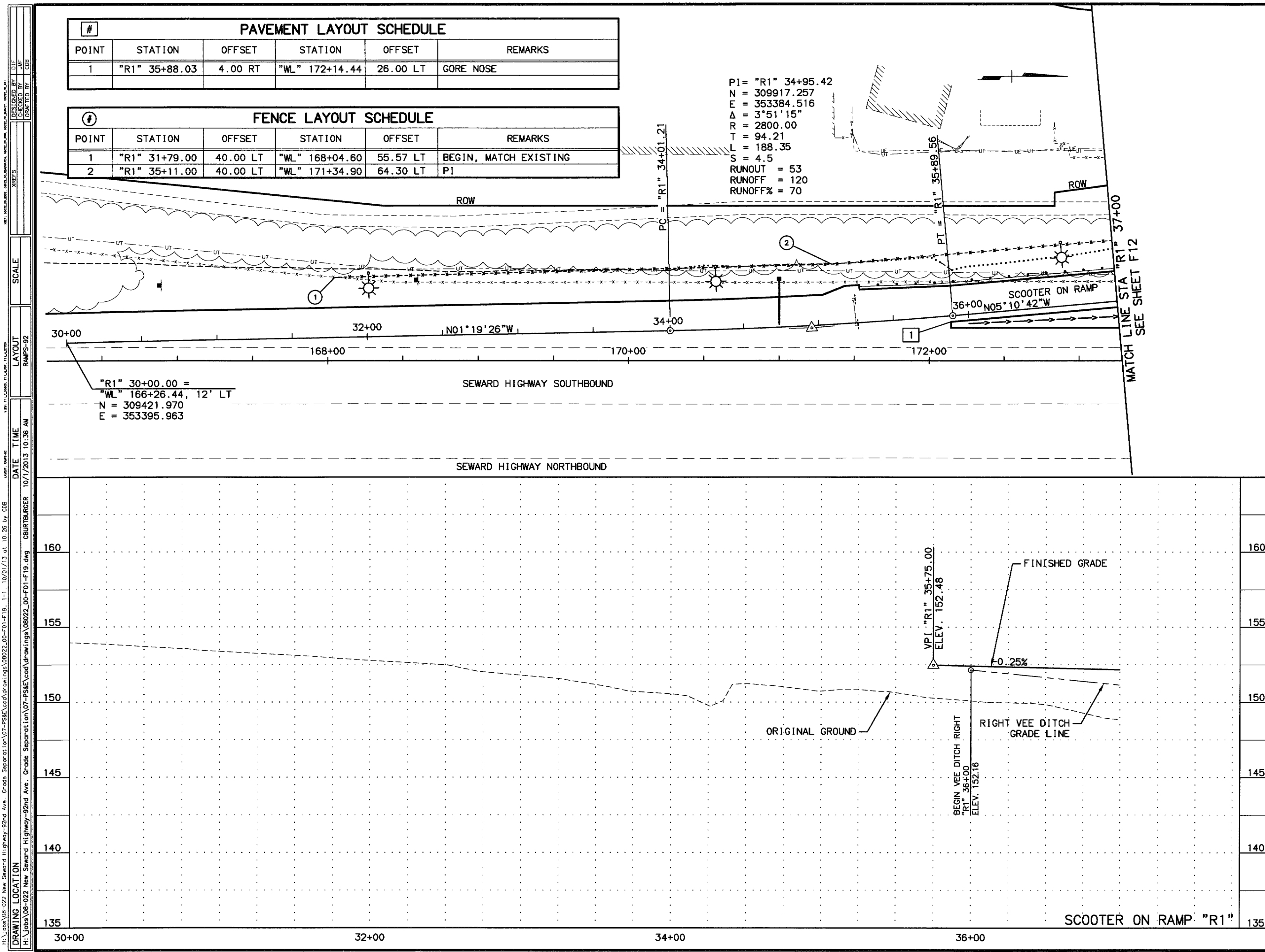
WORK IN PROGRESS
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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SEWARD HIGHWAY
PLAN & PROFILE
"WL" 201+20 TO "WL" 205+19



PAVEMENT LAYOUT SCHEDULE					
#	POINT	STATION	OFFSET	STATION	OFFSET
1	"R1"	35+88.03	4.00 RT	"WL"	172+14.44
					26.00 LT
					GORE NOSE

FENCE LAYOUT SCHEDULE					
POINT	STATION	OFFSET	STATION	OFFSET	REMARKS
1	"R1"	31+79.00	40.00 LT	"WL"	168+04.60
2	"R1"	35+11.00	40.00 LT	"WL"	171+34.90
					55.57 LT
					64.30 LT
					BEGIN, MATCH EXISTING
					PI

PI = "R1" 34+95.42
N = 309917.257
E = 353384.516
Δ = 3°51'15"
R = 2800.00
T = 94.21
L = 188.35
S = 4.5
RUNOUT = 53
RUNOFF = 120
RUNOFF% = 70

SHEET NO. F11TOTAL SHEETS F26

STATE ALASKAYEAR 2014

PROJECT DESIGNATION 59770

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION
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DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD HIGHWAY

SEWARD HIGHWAY

O'MALLEY RD

PS&E REVIEW 10/01/13

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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

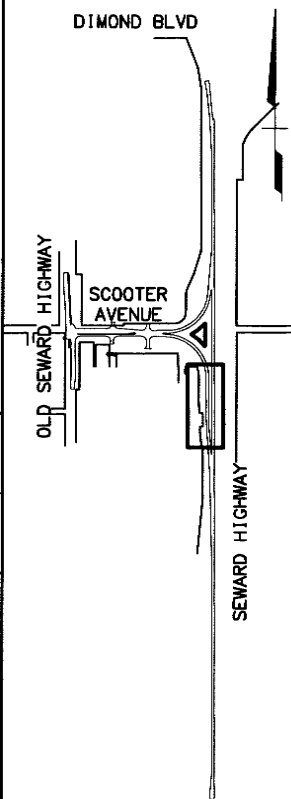
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SCOOTER ON RAMP

PLAN & PROFILE

"R1" 30+00 TO "R1" 37+00

SHEET NO.		TOTAL SHEETS	
F12		F26	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	



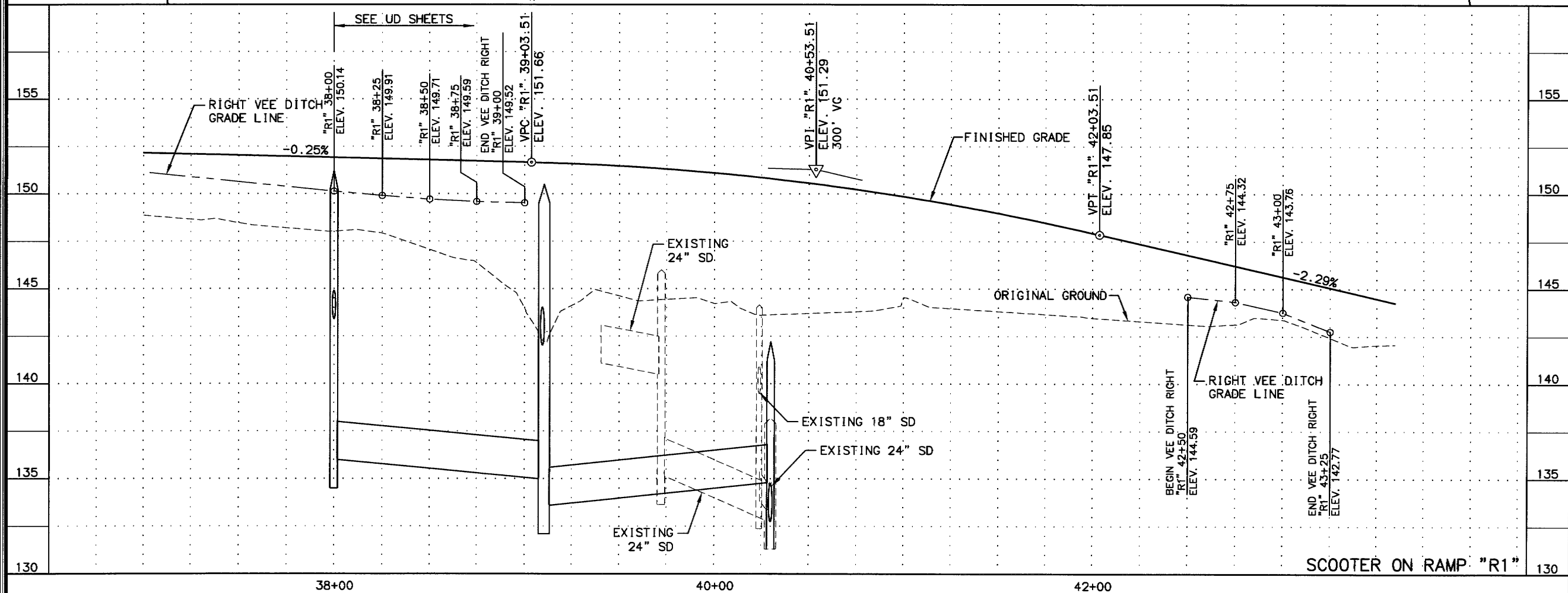
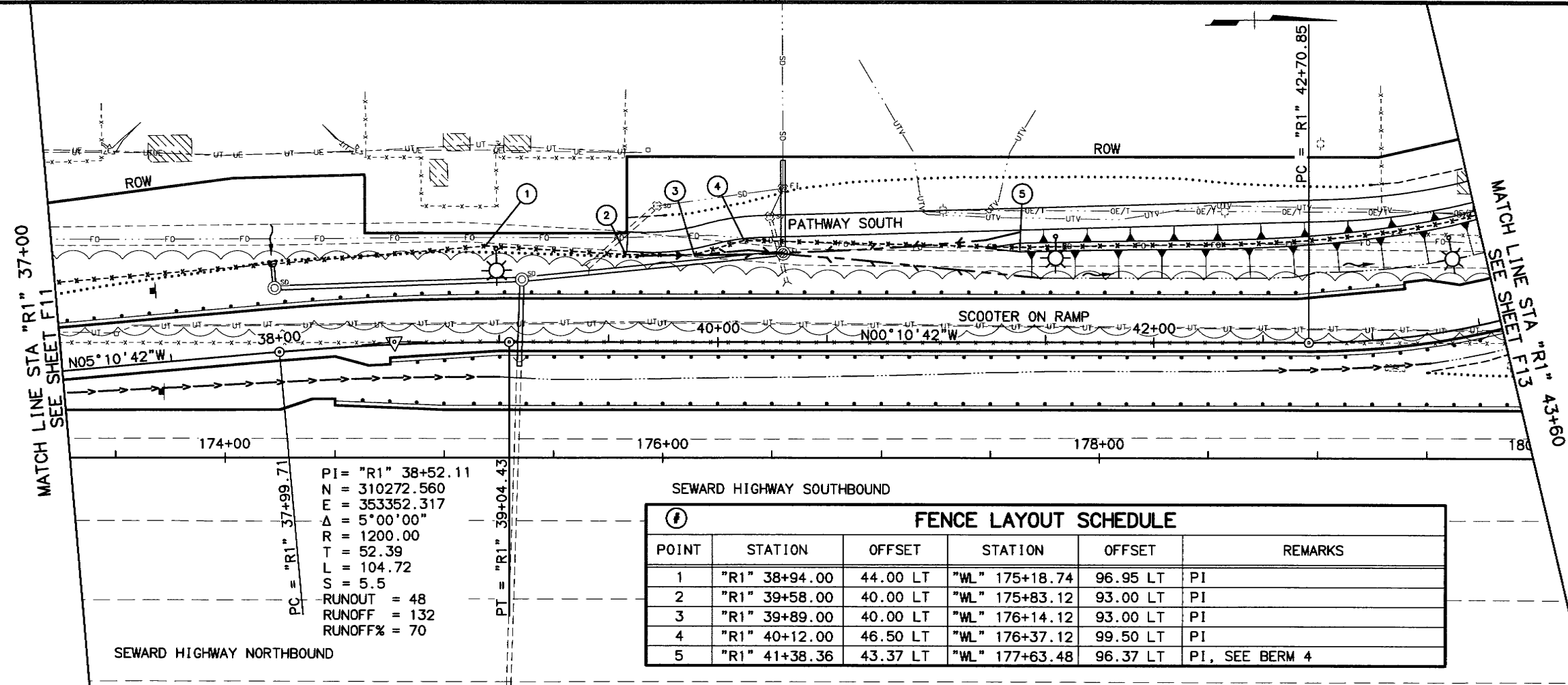
O'MALLEY RD
PS&E REVIEW 10/01/13

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HATTENBURG DILLEY & LINNELL
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SCOOTER ON RAMP
PLAN & PROFILE
"R1" 37+00 TO "R1" 43+60

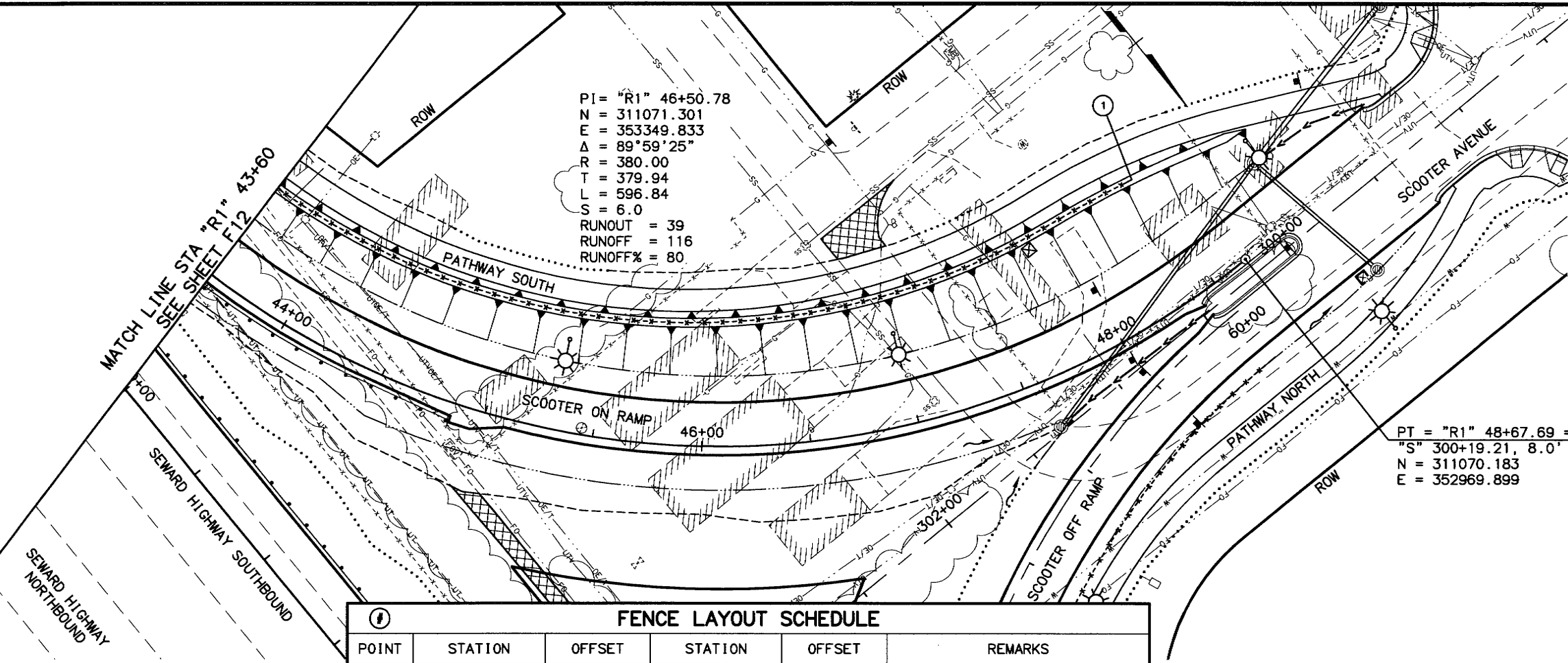


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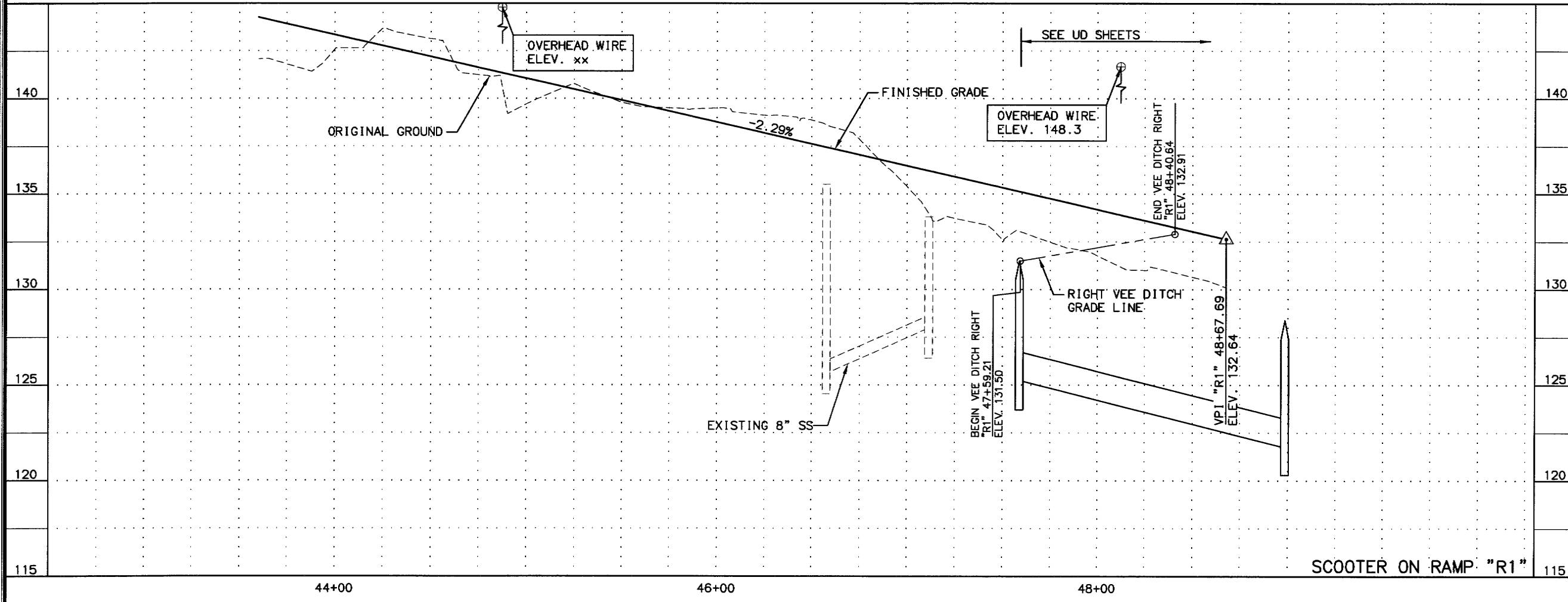
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ATE		DIF
10:36 AM		CHECKED BY
		JMF
		DRAWN BY
		CDR

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DATE TIME
LAYOUT RAMP-92
SCALE
SHEETS
DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY CDB



FENCE LAYOUT SCHEDULE					
POINT	STATION	OFFSET	STATION	OFFSET	REMARKS
1	"R1" 48+47.00	60.28 LT	"S" 300+36.61	68.76 RT	END



SHEET NO.	TOTAL SHEETS	
F13	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD
SCOOTER AVENUE
OLD SEWARD HIGHWAY
SEWARD HIGHWAY

0'MALLEY RD
PS&E REVIEW 10/01/13

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AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SCOOTER ON RAMP
PLAN & PROFILE
"R1" 43+60 TO "R1" 48+67.7

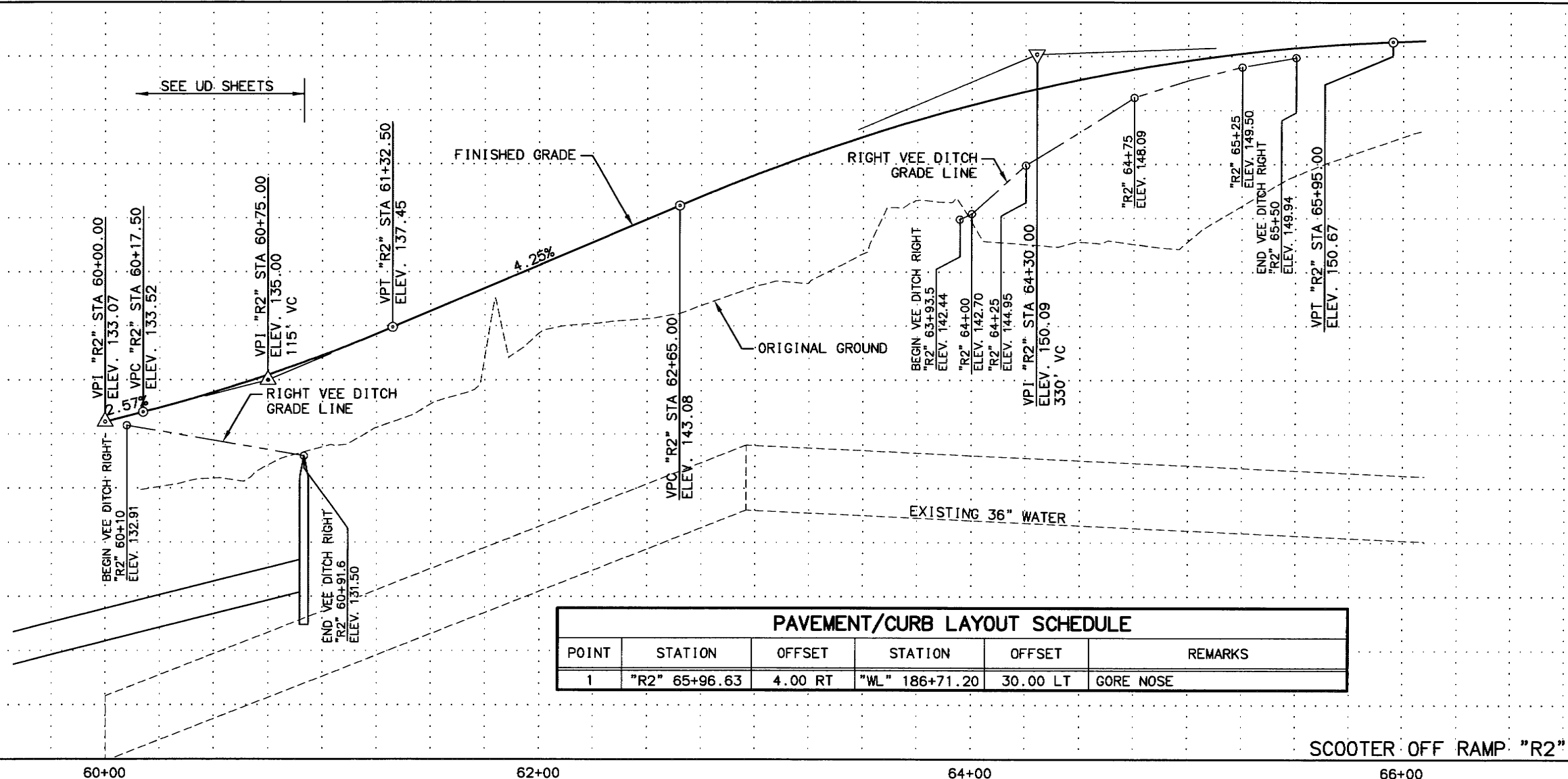
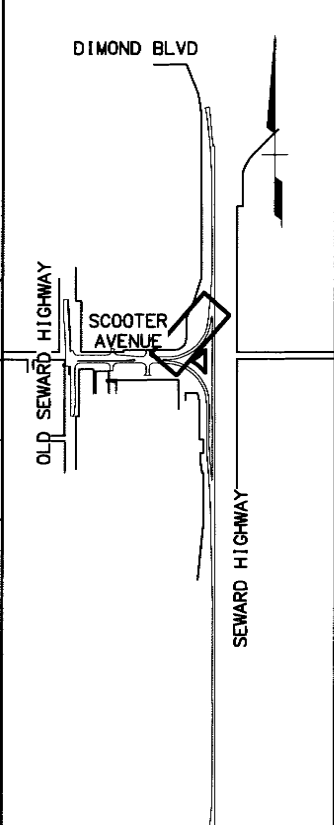
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DRAWN BY: JMB
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TIME: 10:35 AM
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FENCE LAYOUT SCHEDULE					
POINT	STATION	OFFSET	STATION	OFFSET	REMARKS
1	"R2" 60+00.00	27.00 LT	"S" 300+36.62	35.00 LT	BEGIN
2	"R2" 64+60.31	27.00 LT	"WL" 185+47.75	85.00 LT	PI

PC = "R2" 60+00.00 =
"S" 300+36.62, 8.0' LT
N = 311086.234
E = 352987.260

PI = "R2" 63+48.33
N = 311087.259
E = 353335.591
Δ = 85°01'15"
R = 380.00
T = 348.33
L = 563.88
S = 6.0
RUNOUT = 39
RUNOFF = 116
RUNOFF% = 80

SHEET NO.		TOTAL SHEETS	
F14		F26	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	



PAVEMENT/CURB LAYOUT SCHEDULE					
POINT	STATION	OFFSET	STATION	OFFSET	REMARKS
1	"R2" 65+96.63	4.00 RT	"WL" 186+71.20	30.00 LT	GORE NOSE

0'MALLEY RD
PS&E REVIEW 10/01/13

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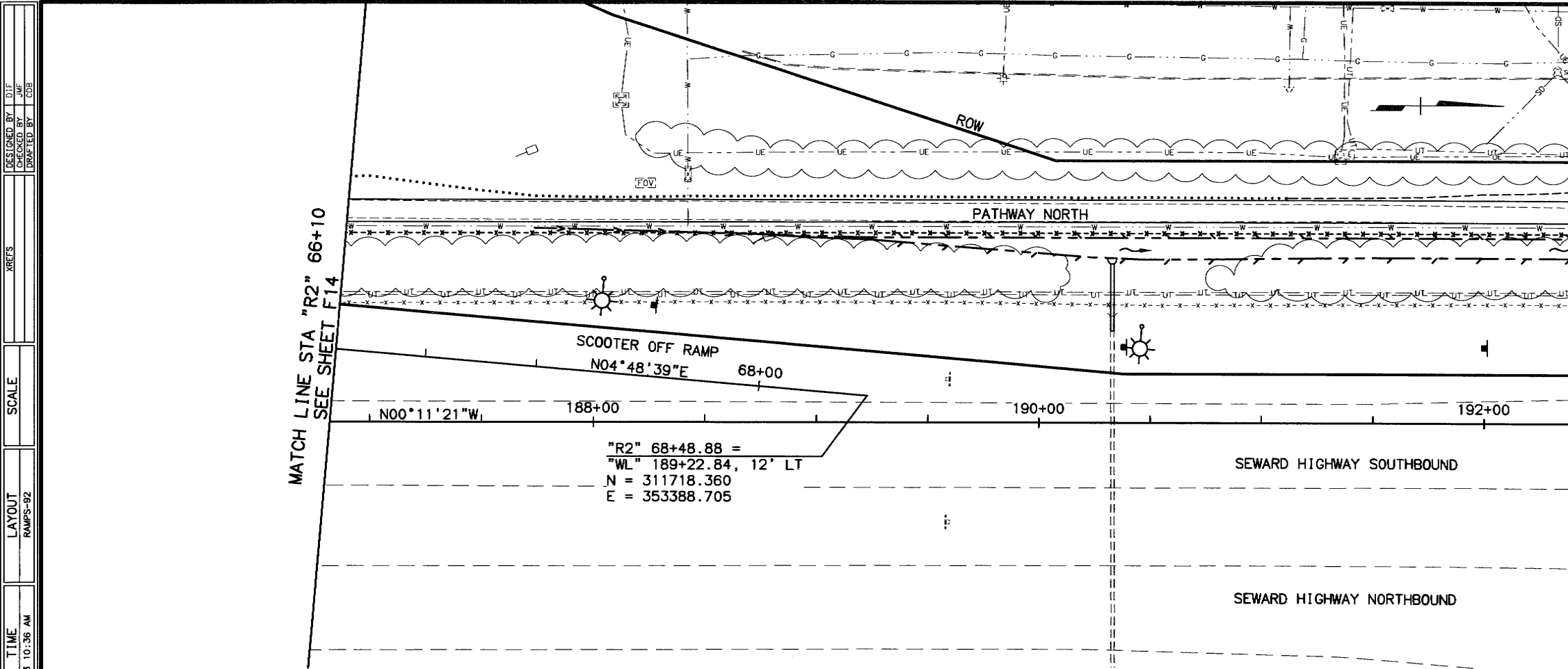
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
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AND PUBLIC FACILITIES

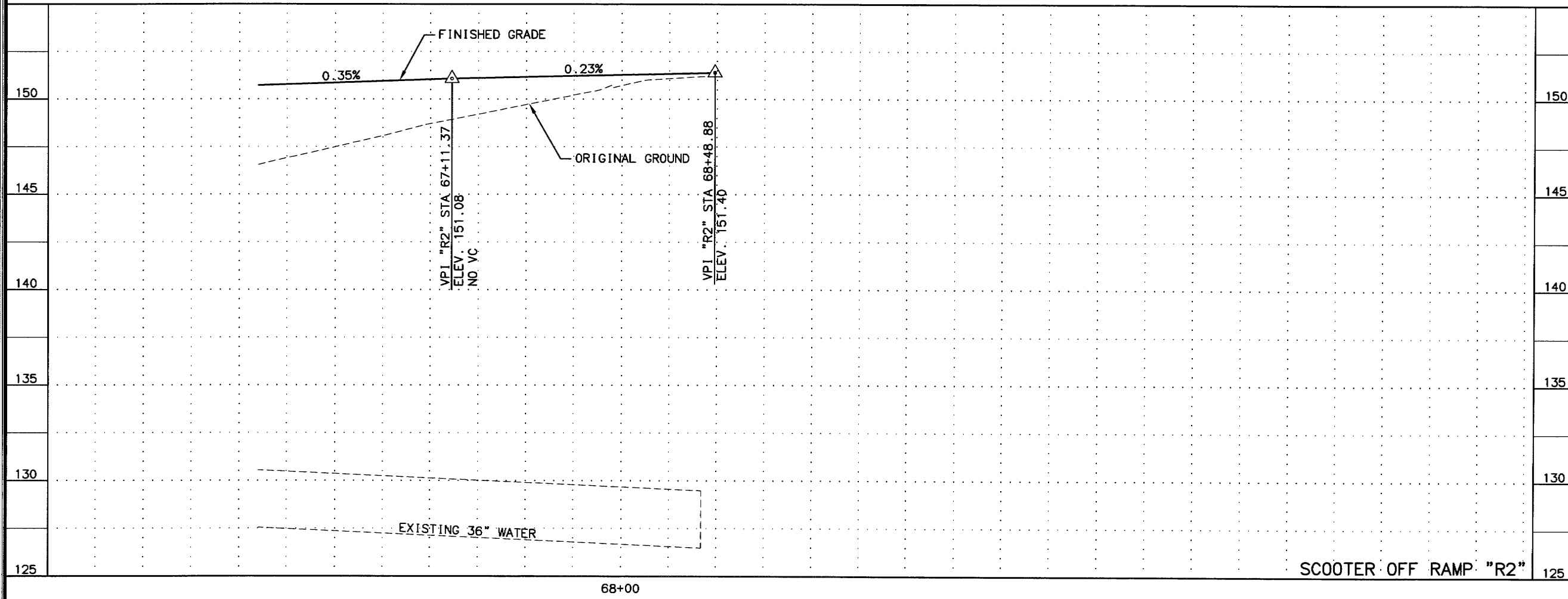
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SCOOTER OFF RAMP
PLAN & PROFILE
"R2" 60+00 TO "R2" 66+10

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LAYOUT RAMP-92
SCALE
SHEETS
DESIGNED BY DIF
CHECKED BY JMF
DRAWN BY CDB



"R2" 68+48.88 =
"WL" 189+22.84, 12' LT
N = 311718.360
E = 353388.705



SCOOTER OFF RAMP "R2"

SHEET NO.	TOTAL SHEETS	
F15	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD
SCOOTER AVENUE
SEWARD HIGHWAY
OLD SEWARD HIGHWAY

O'MALLEY RD
PS&E REVIEW 10/01/13

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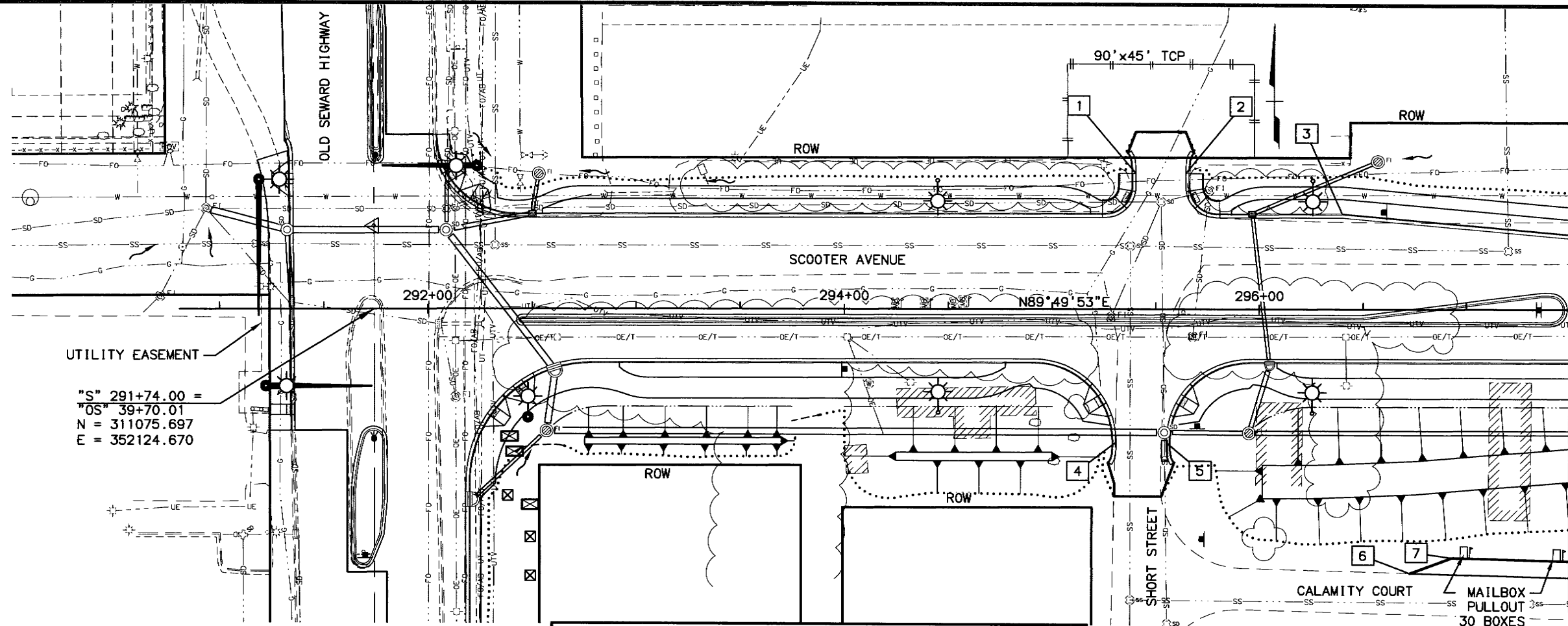
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

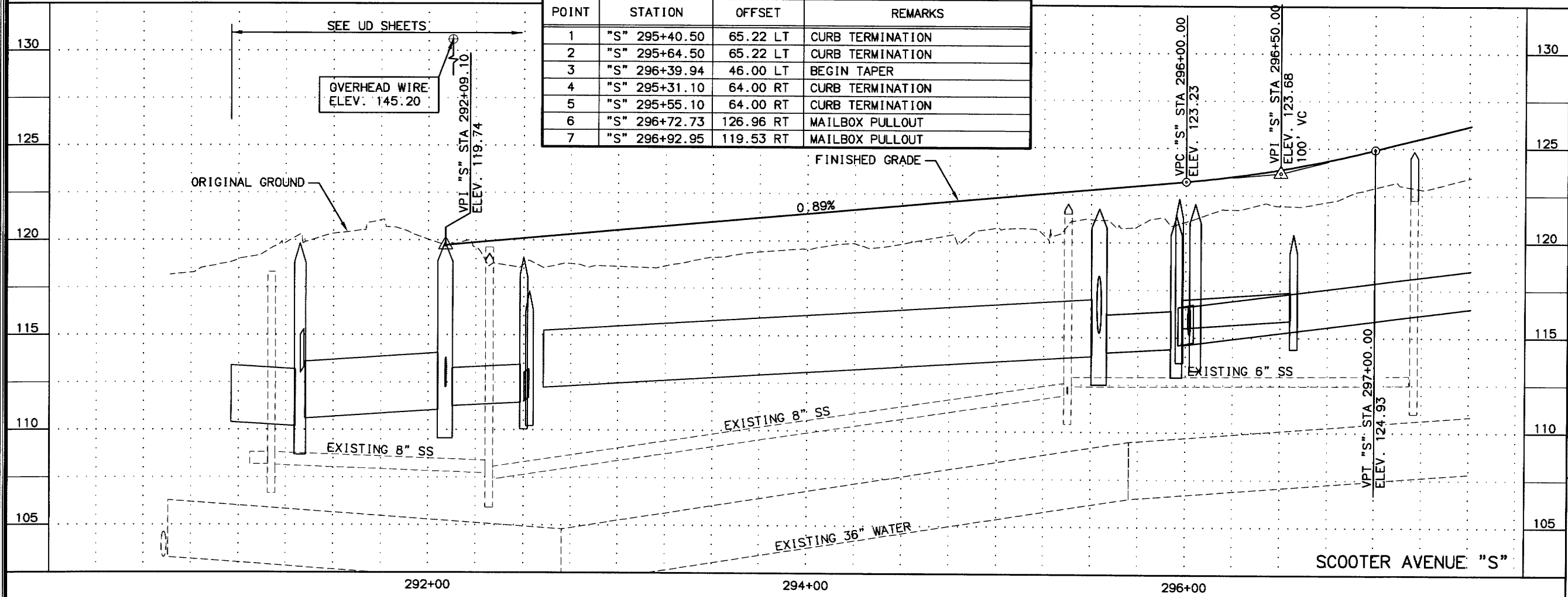
SCOOTER OFF RAMP
PLAN & PROFILE
"R2" 66+10 TO "R2" 68+48.9

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DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY CDB
XREFS
SCALE
LAYOUT
RAMPS-92
DATE
TIME
10/1/2013 10:36 AM
COURT BURGER



MATCH LINE STA "S" 297+50
SEE SHEET F17

CURB LAYOUT SCHEDULE			
POINT	STATION	OFFSET	REMARKS
1	"S" 295+40.50	65.22 LT	CURB TERMINATION
2	"S" 295+64.50	65.22 LT	CURB TERMINATION
3	"S" 296+39.94	46.00 LT	BEGIN TAPER
4	"S" 295+31.10	64.00 RT	CURB TERMINATION
5	"S" 295+55.10	64.00 RT	CURB TERMINATION
6	"S" 296+72.73	126.96 RT	MAILBOX PULLOUT
7	"S" 296+92.95	119.53 RT	MAILBOX PULLOUT



SHEET NO.	TOTAL SHEETS	
F16	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

0'MALLEY RD
PS&E REVIEW 10/01/13

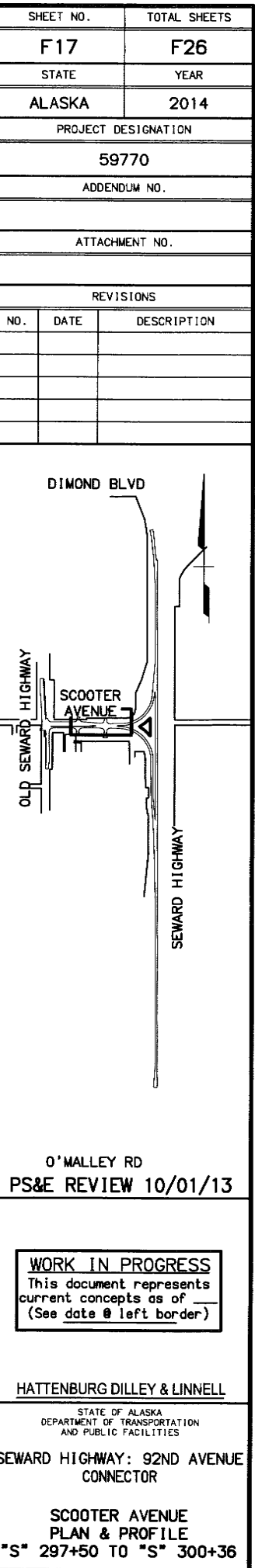
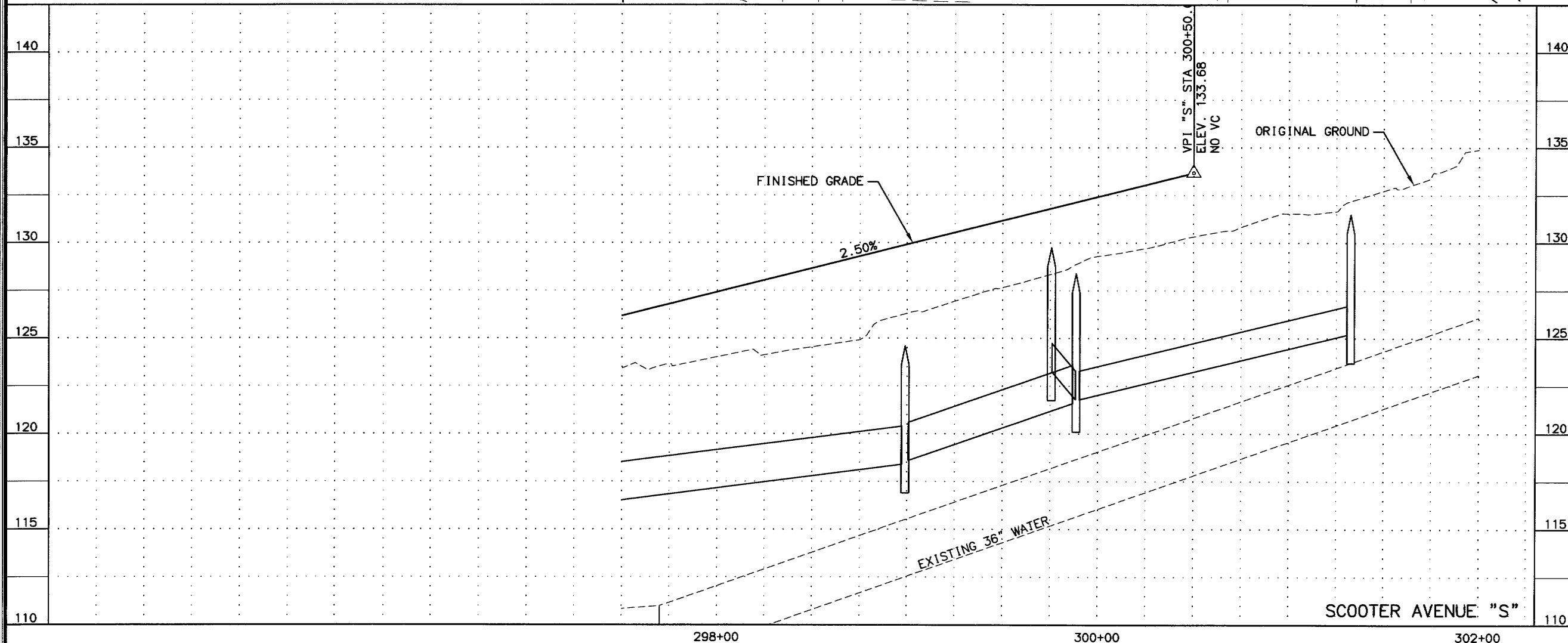
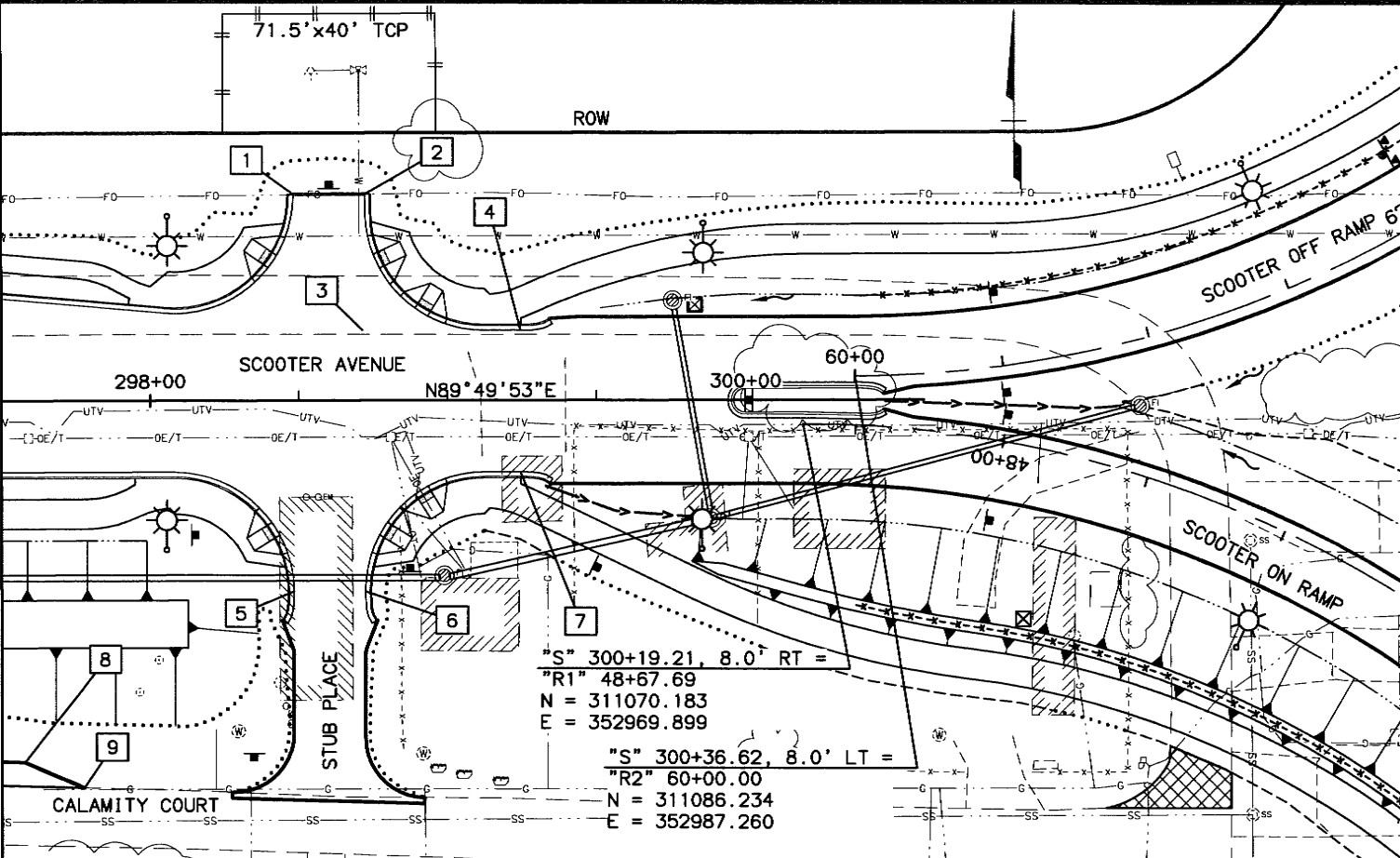
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HATTENBURG DILLEY & LINNELL
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

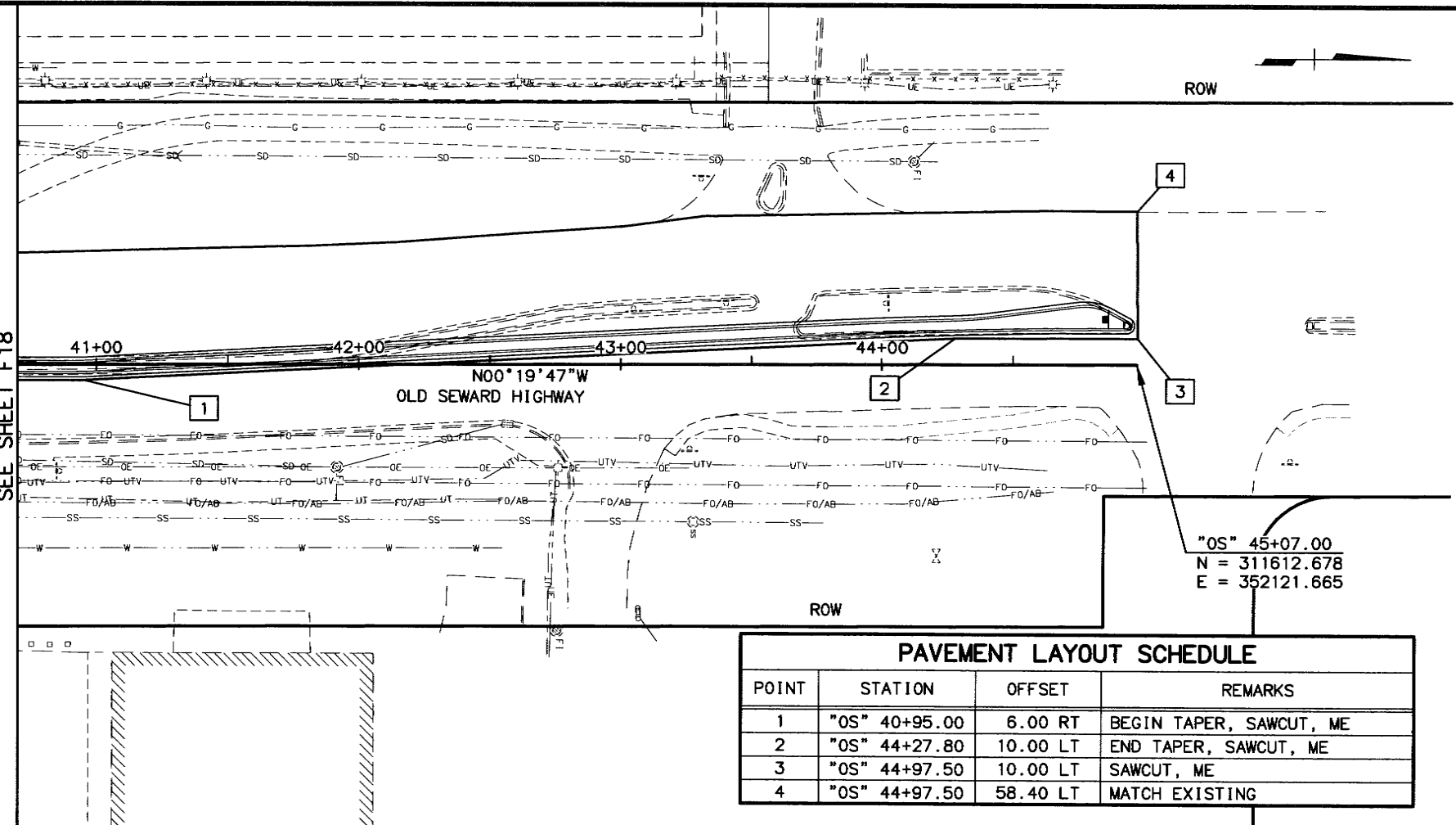
SCOOTER AVENUE
PLAN & PROFILE
"S" 291+74 TO "S" 297+50

POINT	STATION	OFFSET	REMARKS
1	"S" 298+48.29	69.25 LT	END
2	"S" 298+72.29	69.24 LT	END
3	"S" 298+71.45	23.50 LT	END TAPER
4	"S" 399+24.46	23.50 LT	CURB TERMINATION
5	"S" 298+48.29	64.00 RT	CURB TERMINATION
6	"S" 298+72.29	64.00 RT	CURB TERMINATION
7	"S" 299+24.46	24.00 RT	CURB TERMINATION
8	"S" 297+57.91	121.38 RT	MAILBOX PULLOUT
9	"S" 297+77.50	129.94 RT	MAILBOX PULLOUT



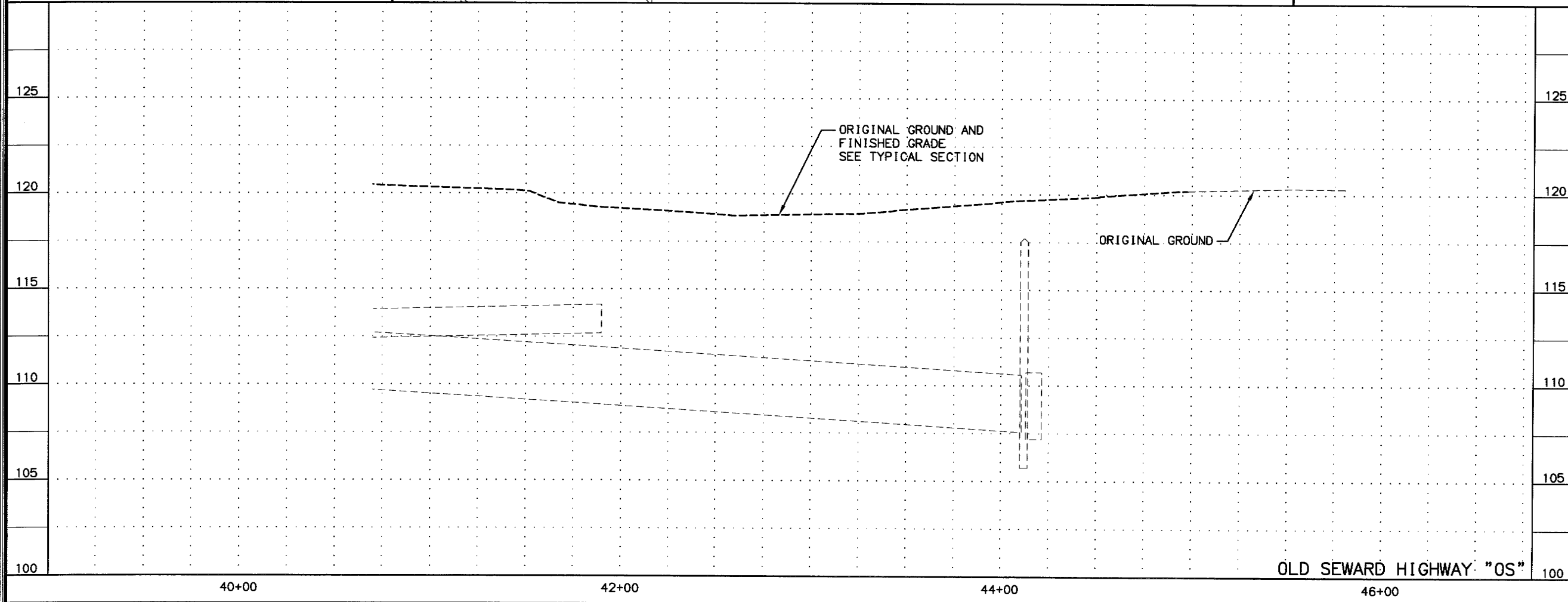
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DESIGNED BY DIF
CHECKED BY JUF
DRAFTED BY CDB
XREFS
SCALE
LAYOUT
RAMPS-92
DATE
TIME
10/1/2013 10:35 AM

MATCH LINE STA "OS" 40+70
SEE SHEET F18



PAVEMENT LAYOUT SCHEDULE			
POINT	STATION	OFFSET	REMARKS
1	"OS" 40+95.00	6.00 RT	BEGIN TAPER, SAWCUT, ME
2	"OS" 44+27.80	10.00 LT	END TAPER, SAWCUT, ME
3	"OS" 44+97.50	10.00 LT	SAWCUT, ME
4	"OS" 44+97.50	58.40 LT	MATCH EXISTING

"OS" 45+07.00
N = 311612.678
E = 352121.665



SHEET NO.	TOTAL SHEETS	
F19	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD
SCOOTER AVENUE
OLD SEWARD HIGHWAY
SEWARD HIGHWAY

O'MALLEY RD
PS&E REVIEW 10/01/13

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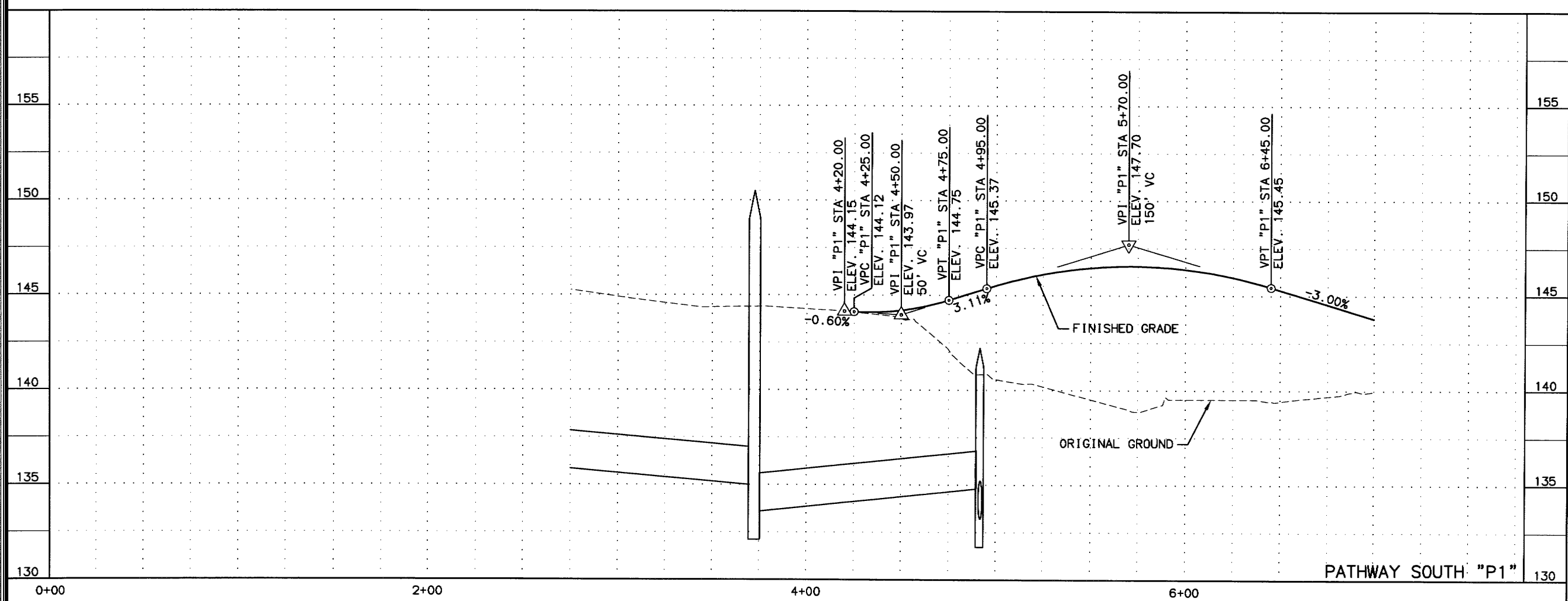
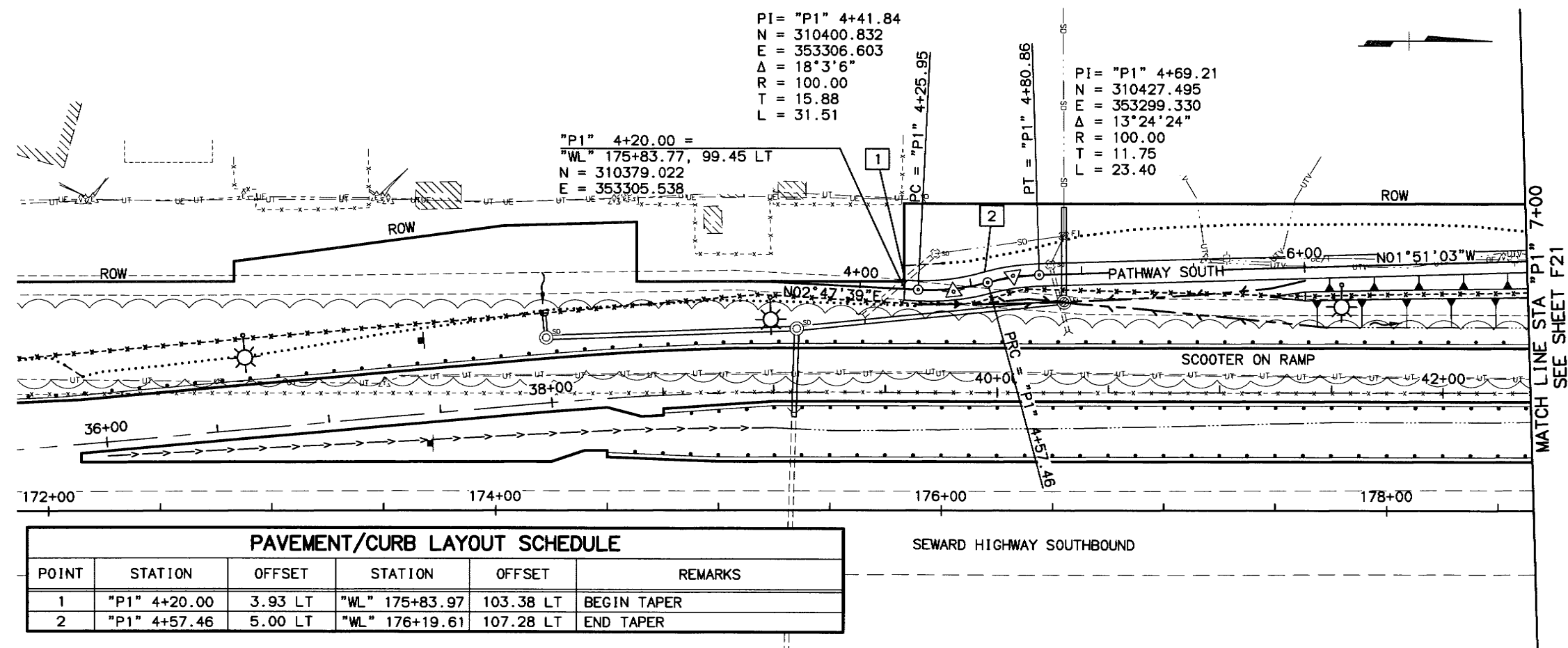
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

OLD SEWARD HIGHWAY
PLAN & PROFILE
"OS" 40+70 TO "OS" 44+97.5

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DATE TIME
LAYOUT PATHWAY
SCALE
SHEET NO. F20
TOTAL SHEETS F26
STATE ALASKA
YEAR 2014
PROJECT DESIGNATION 59770
ADDENDUM NO.
ATTACHMENT NO.
REVISIONS
NO. DATE DESCRIPTION
DESIGNED BY JMF
CHECKED BY JMF
DRAWN BY COB



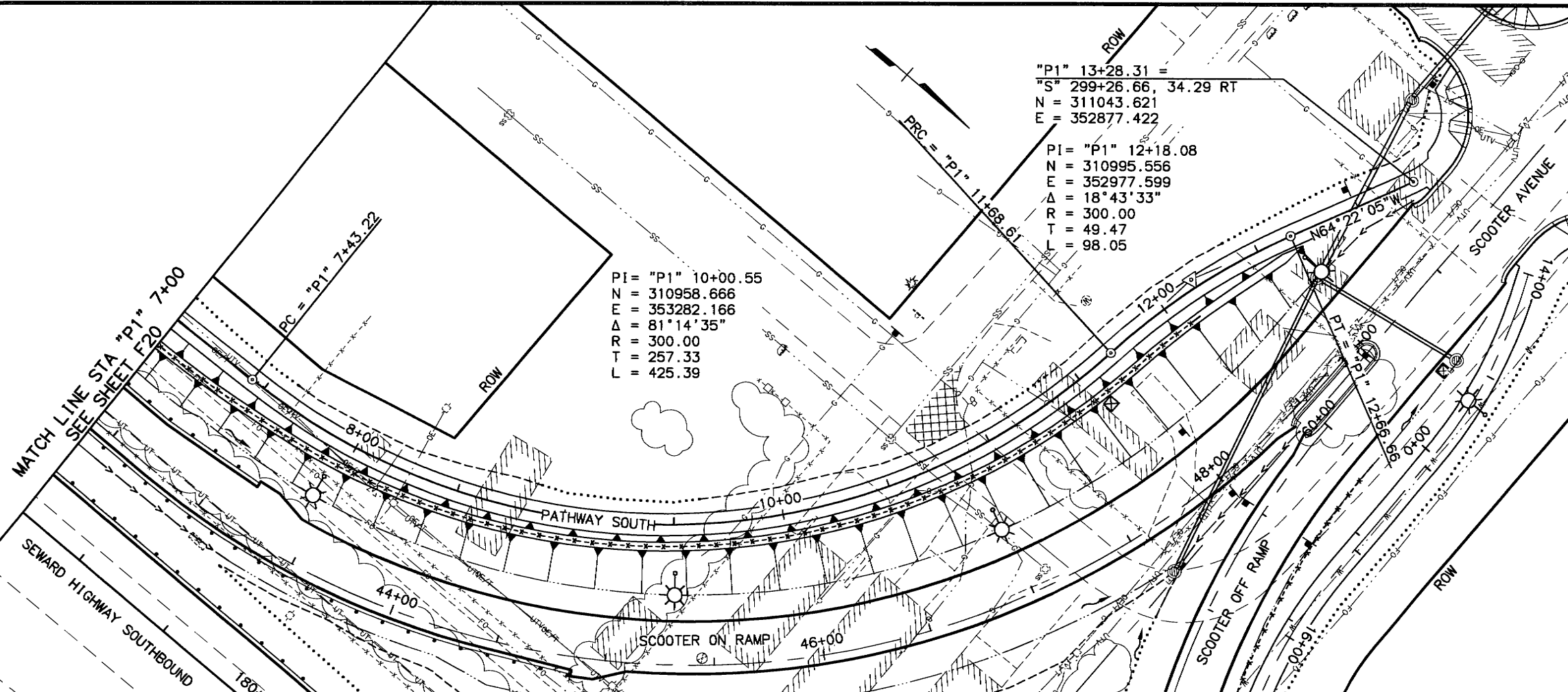
DIMOND BLVD
SCOOTER AVENUE
SEWARD HIGHWAY

0'MALLEY RD
PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR
PATHWAY SOUTH
PLAN & PROFILE
"P1" 1+20.0 TO "P1" 7+00

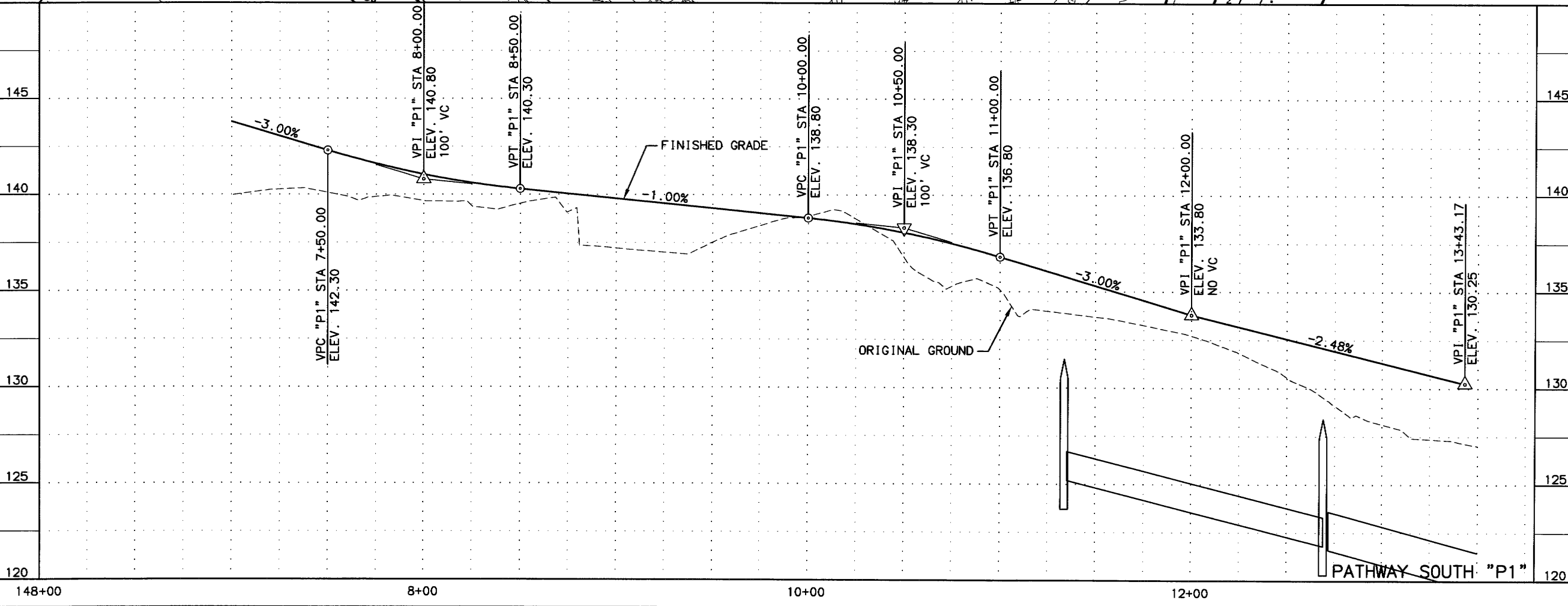
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DESIGNED BY XRETS
CHECKED BY JMB
DRAFTED BY CDB
SCALE
LAYOUT
DATE
TIME
PATHWAY
10/1/2013 10:40 AM
DRAWING LOCATION



"P1" 13+28.31 =
"S" 299+26.66, 34.29 RT
N = 311043.621
E = 352877.422

PI = "P1" 12+18.08
N = 310995.556
E = 352977.599
 $\Delta = 18^\circ 43' 33''$
R = 300.00
T = 49.47
L = 98.05

PI = "P1" 10+00.55
N = 310958.666
E = 353282.166
 $\Delta = 81^\circ 14' 35''$
R = 300.00
T = 257.33
L = 425.39

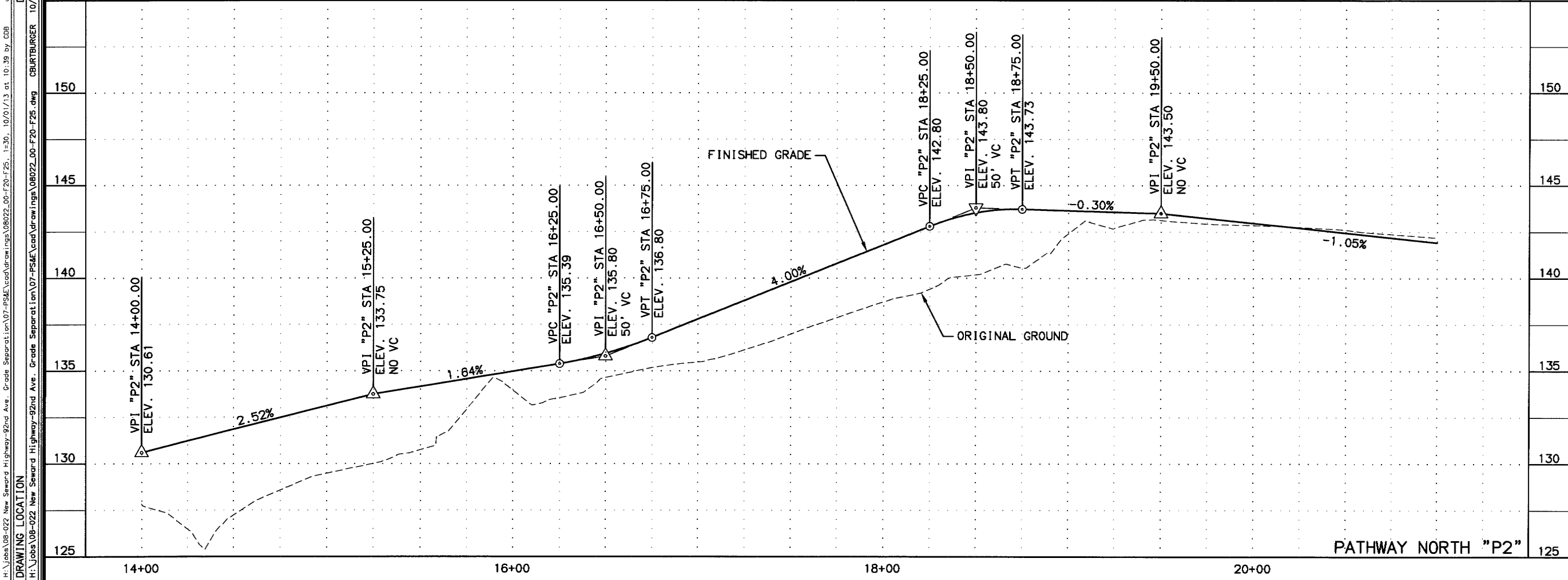
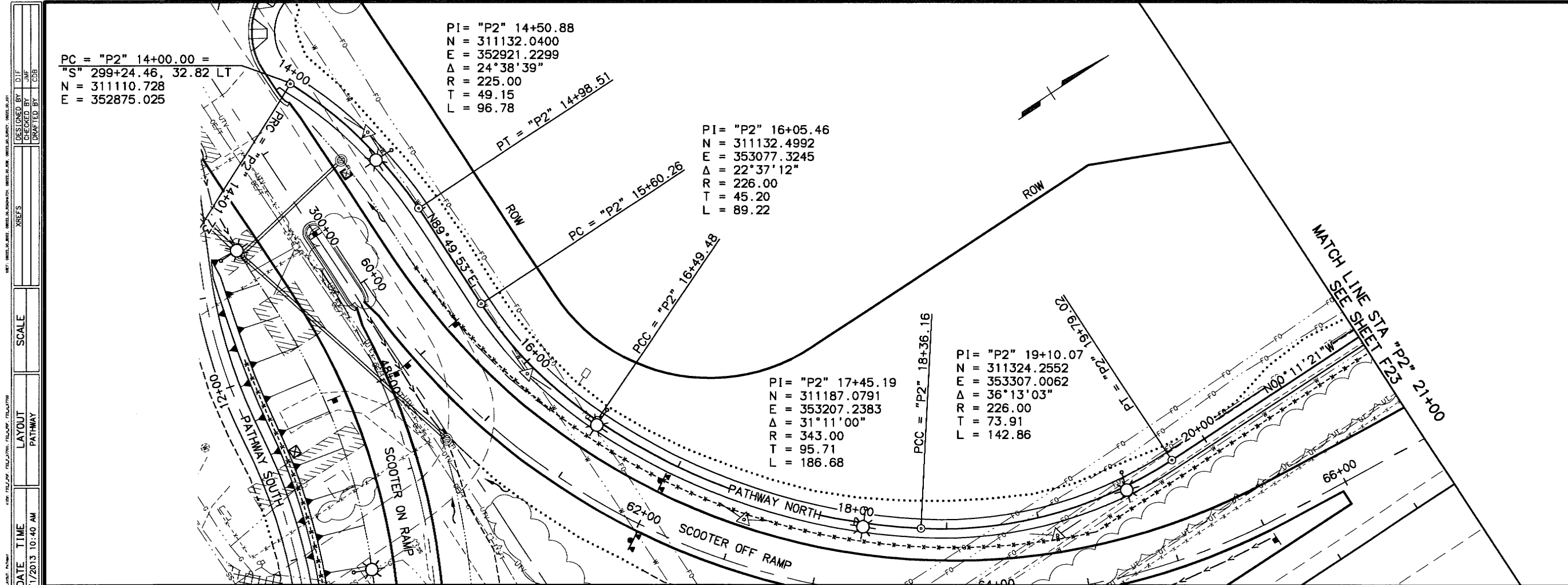


SHEET NO.	TOTAL SHEETS	
F21	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

0'MALLEY RD
PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR
PATHWAY SOUTH
PLAN & PROFILE
"P1" 7+00 TO "P1" 13+28.3



SHEET NO.	TOTAL SHEETS	
F22	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD

SEWARD HIGHWAY

O'MALLEY RD

PS&E REVIEW 10/01/13

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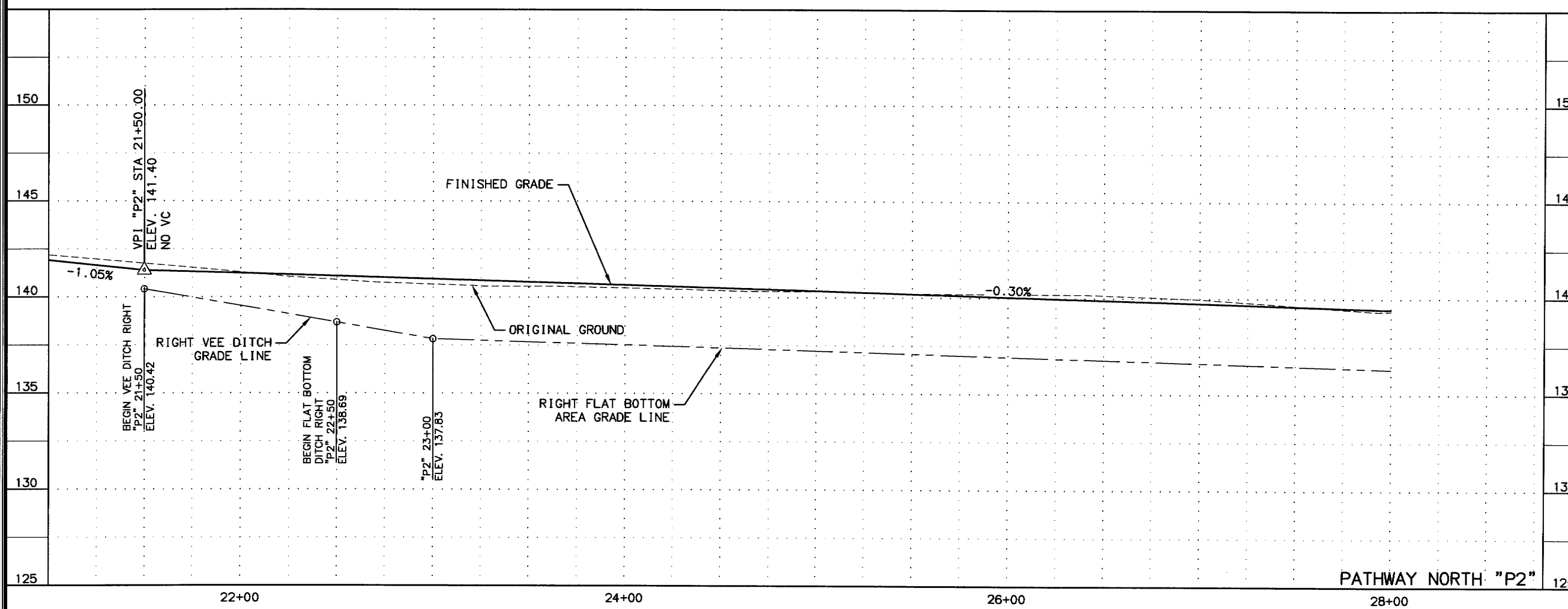
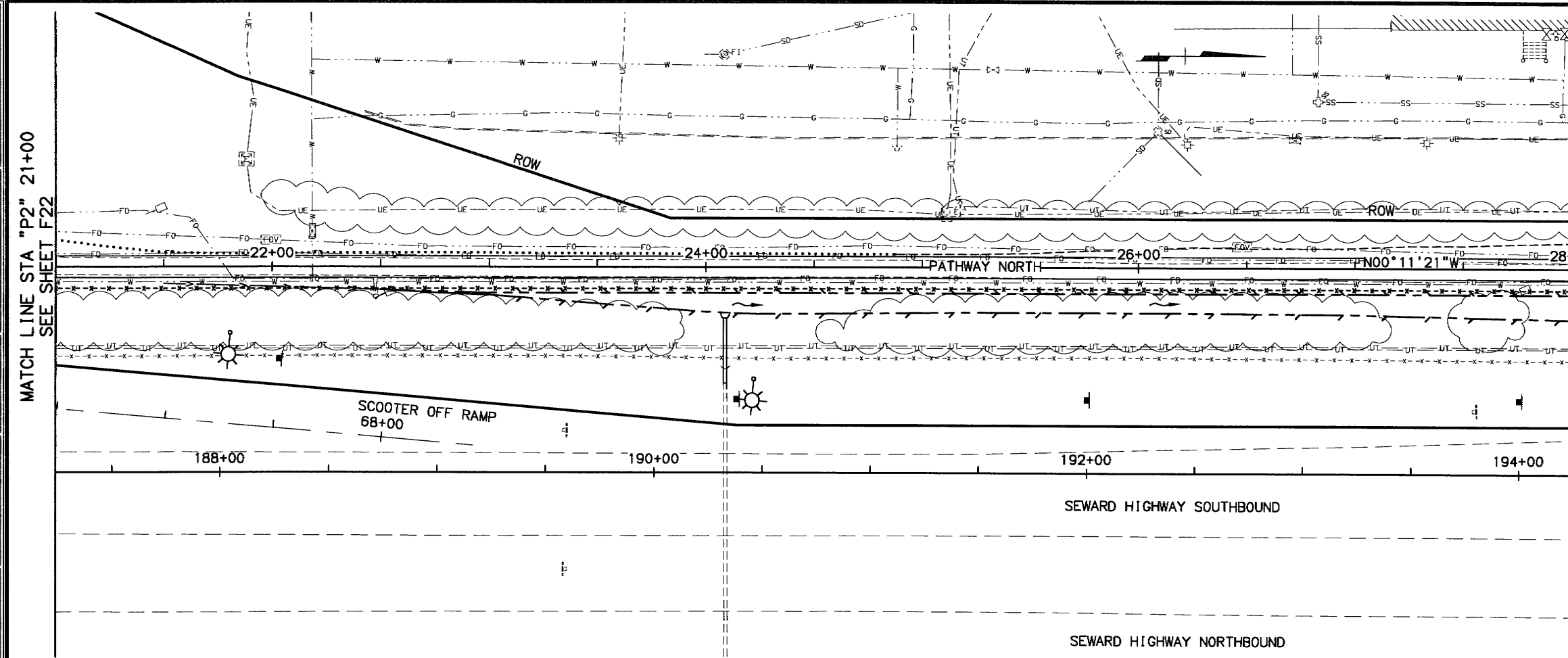
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

PATHWAY NORTH
PLAN & PROFILE
"P2" 14+00 TO "P2" 21+00

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DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY CDB
XREFS
SCALE
LAYOUT
PATHWAY
DATE
TIME
10/1/2013 10:40 AM



SHEET NO.		TOTAL SHEETS	
F23		F26	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

DIMOND BLVD
SCOOTER AVENUE
OLD SEWARD
SEWARD HIGHWAY

0'MALLEY RD
PS&E REVIEW 10/01/13

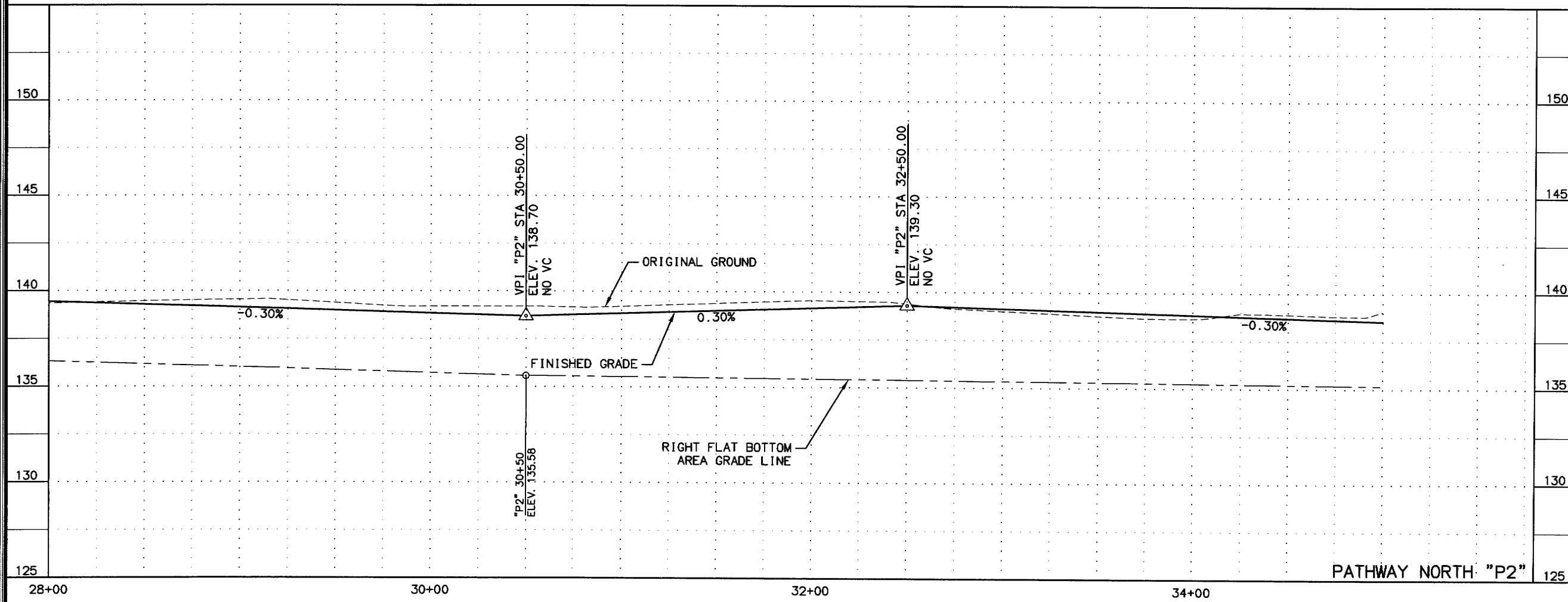
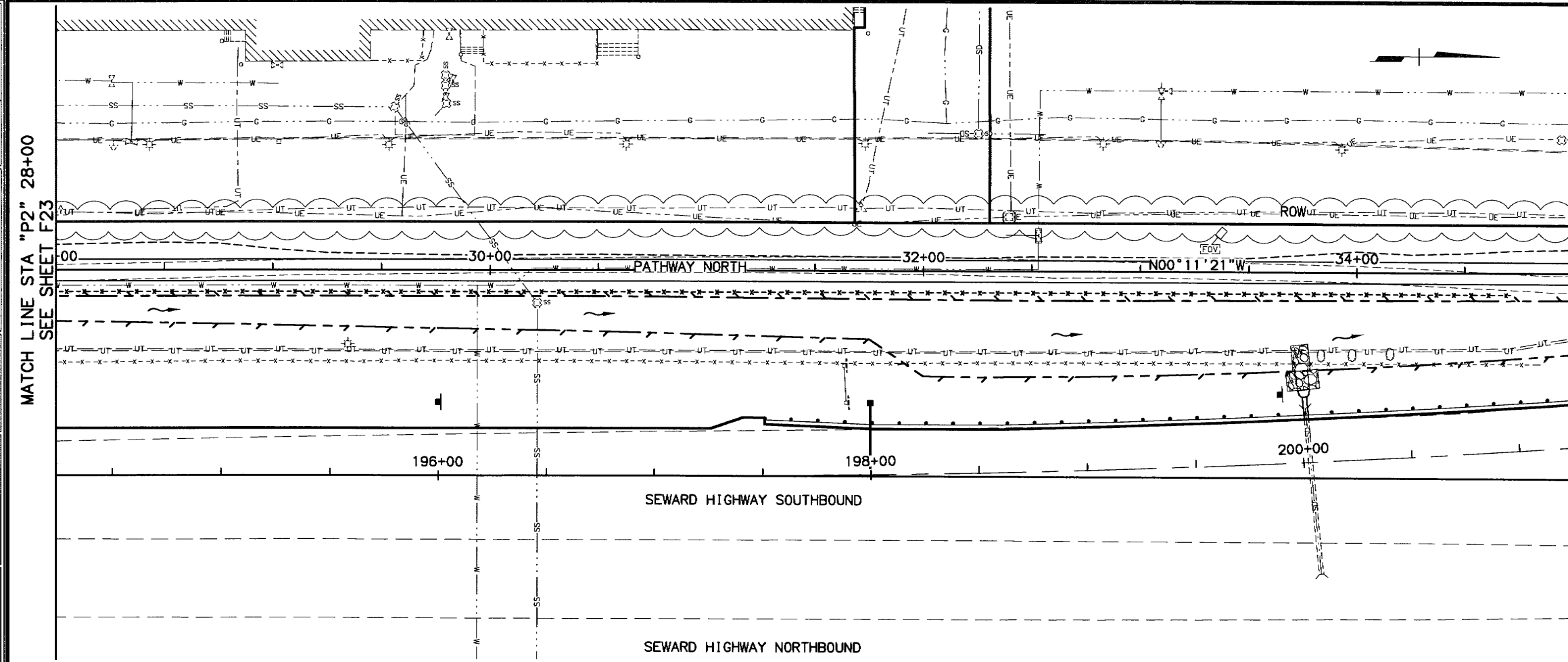
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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

PATHWAY NORTH
PLAN & PROFILE
"P2" 21+00 TO "P2" 28+00



SHEET NO.		TOTAL SHEETS	
F24		F26	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

O'MALLEY RD

PS&E REVIEW 10/01/13

WORK IN PROGRESS

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current concepts as of _____
(See date @ left border)

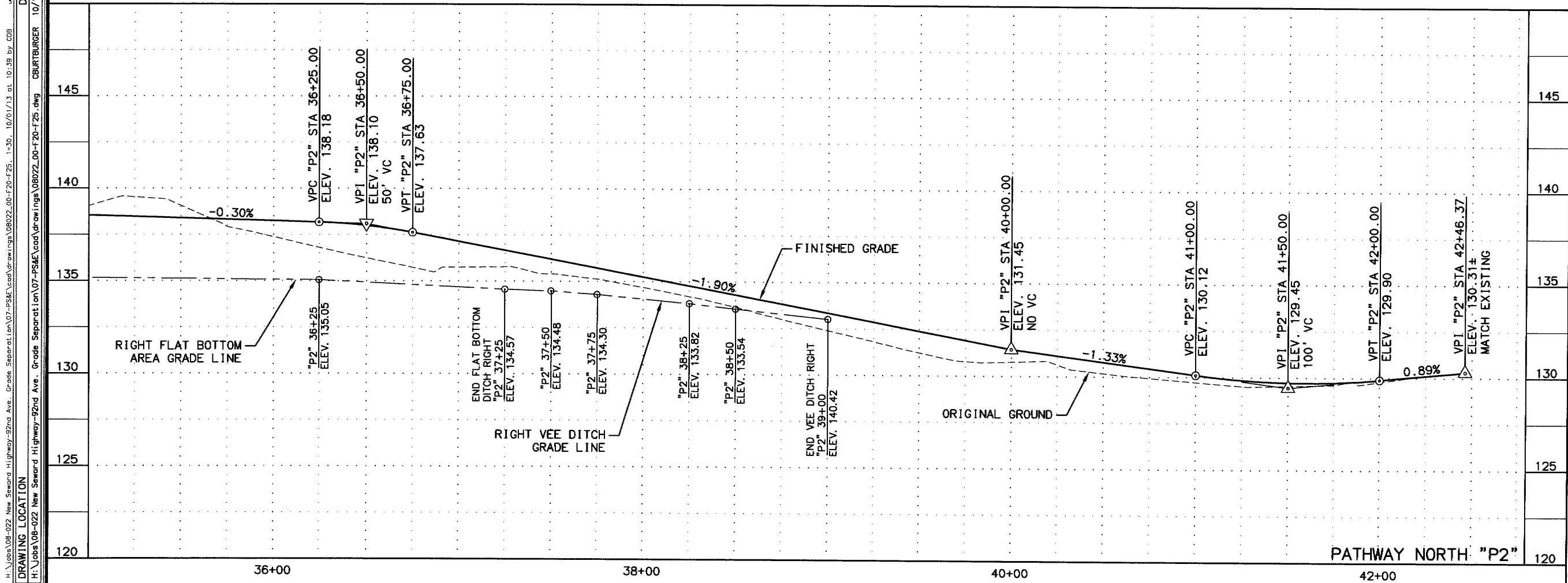
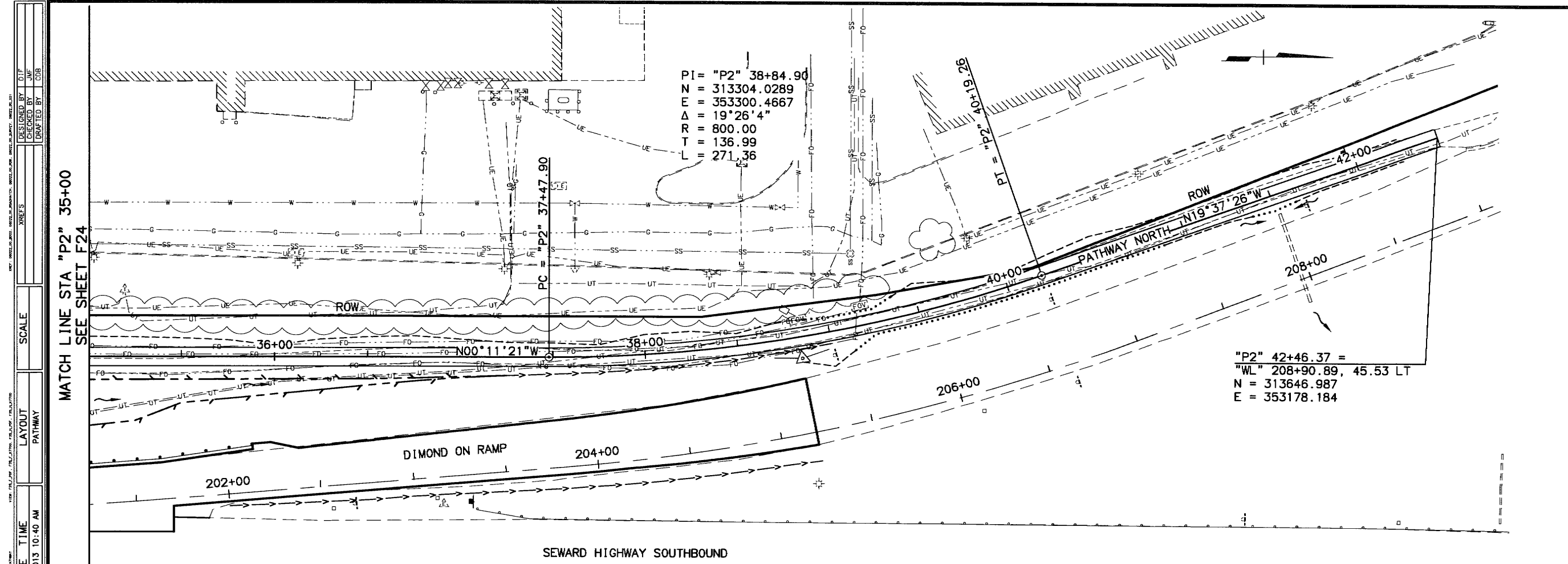
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

PATHWAY NORTH
PLAN & PROFILE

"P2" 28+00 TO "P2" 35+00



SHEET NO.	TOTAL SHEETS	
F25	F26	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD

SEWARD HIGHWAY

O'MALLEY RD

PS&E REVIEW 10/01/13

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HATTENBURG DILLEY & LINNELL

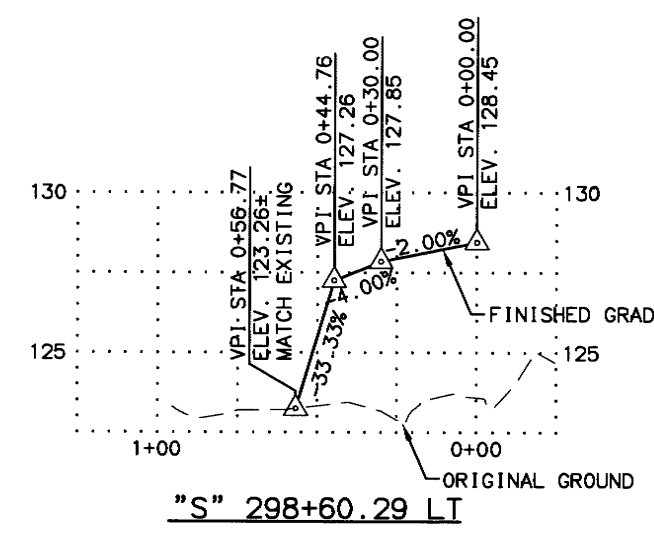
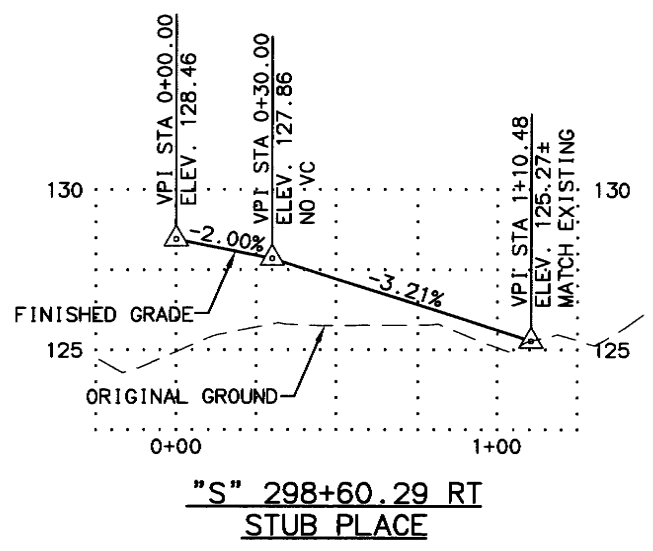
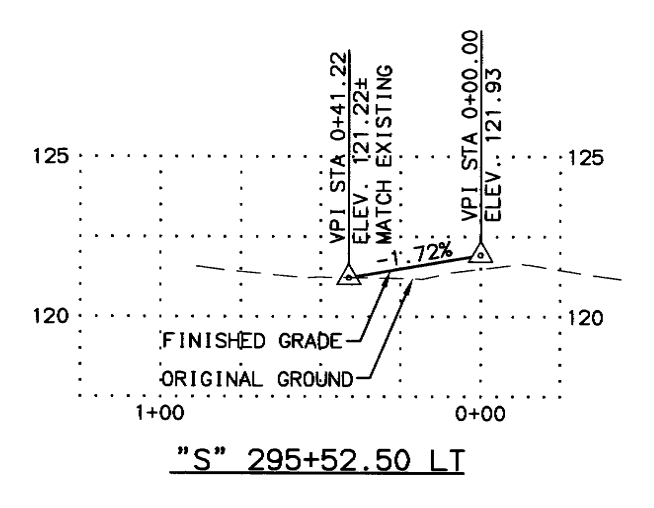
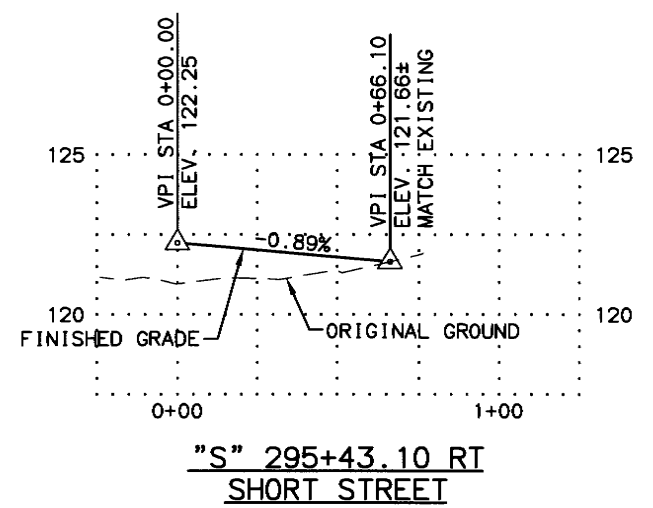
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

PATHWAY NORTH
PLAN & PROFILE
"P2" 35+00 TO "P2" 42+46.4

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XREFS
DRAWING LOCATION

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
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PS&E REVIEW 10/01/13

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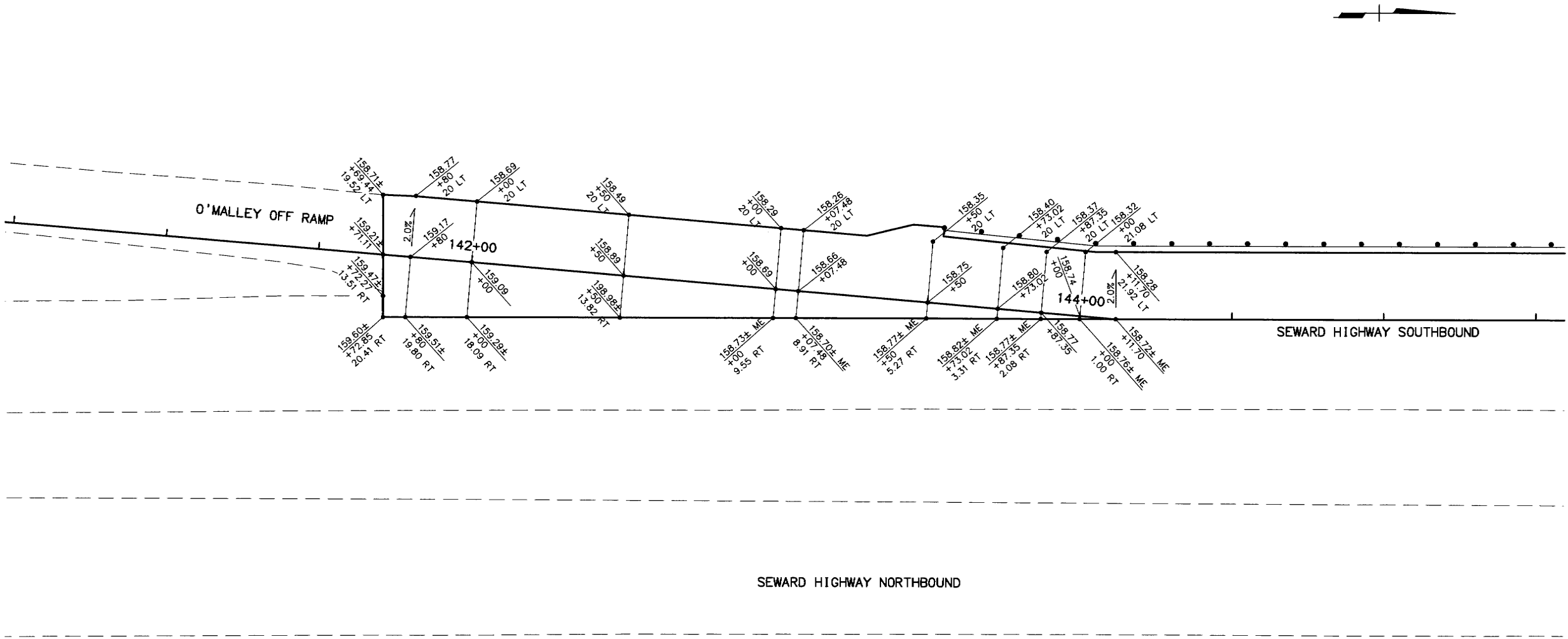
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

APPROACH PROFILES

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LAYOUT SCALE
DESIGNED BY XREFS
CHECKED BY JMF
DRAFTED BY CDB

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	G1	G8



O'MALLEY OFF RAMP
SCALE: 1" = 20'

PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

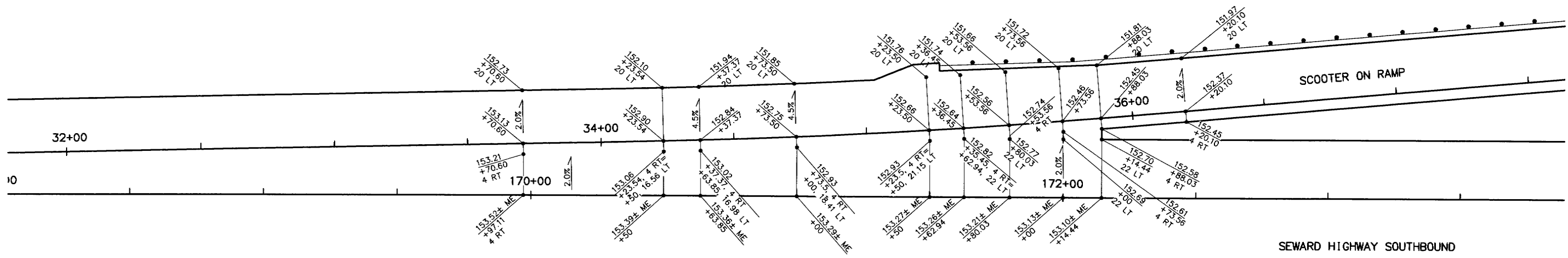
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DESIGNED BY	DIF
CHECKED BY	JMF
DRAWN BY	CDB

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	G2	G8



SCOOTER ON RAMP
SCALE: 1" = 20'

PS&E REVIEW 10/01/13

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current concepts as of
(See date @ left border)

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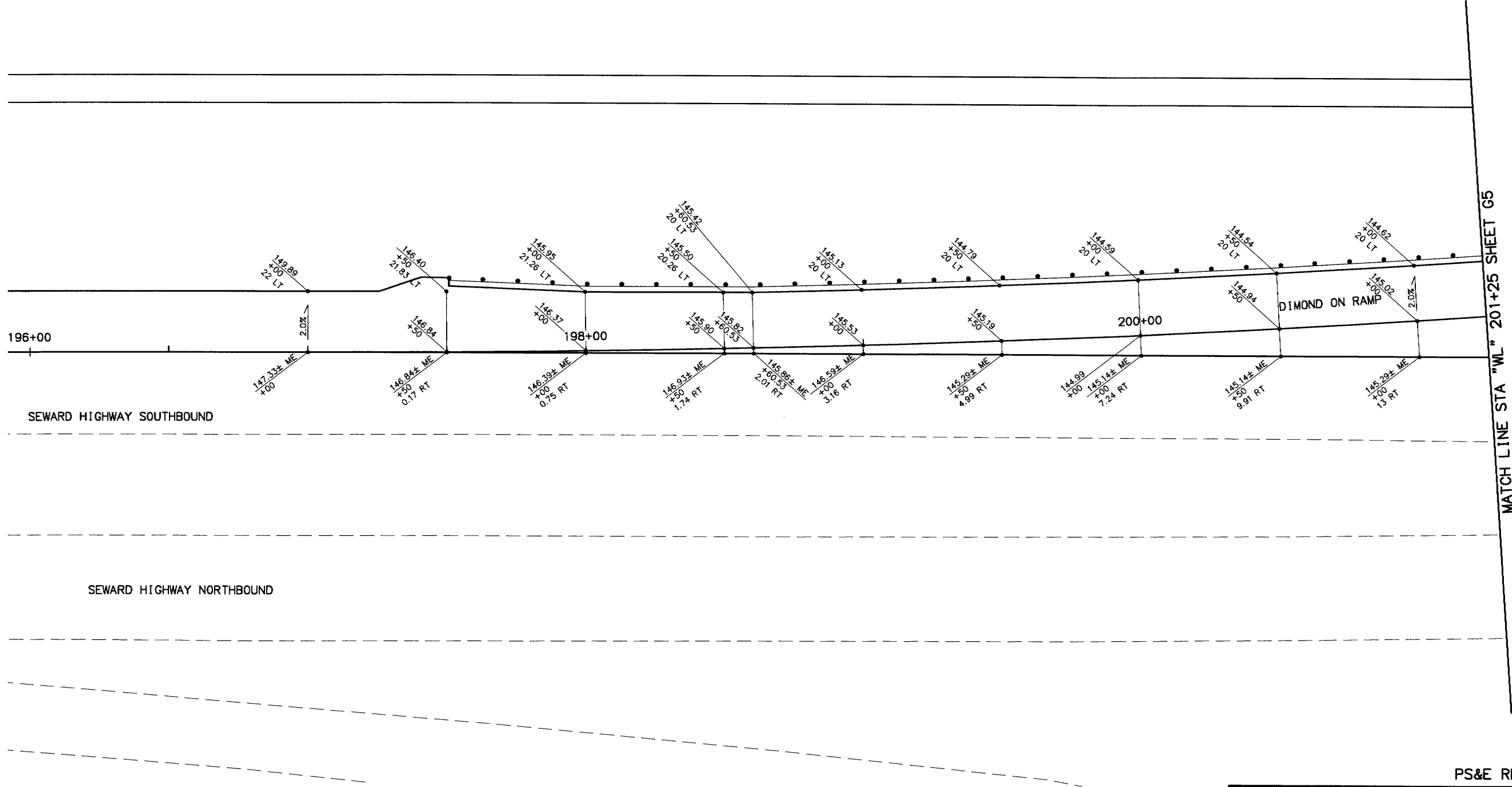
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

GRADING PLAN

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DATE TIME LAYOUT SCALE
10/1/2013 11:08 AM G1-08
DESIGNED BY DTF
CHECKED BY C08
DRAWN BY C08
XREF'S
VITE SCALE: 1"=20'
UNIT: 1"=20'

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	G4	G8



DIMOND ON RAMP
SCALE: 1" = 20'

PS&E REVIEW 10/01/13

WORK IN PROGRESS
This document represents
current concepts as of
(See date @ left border)

HATTENBURG DILLEY & LINNELL

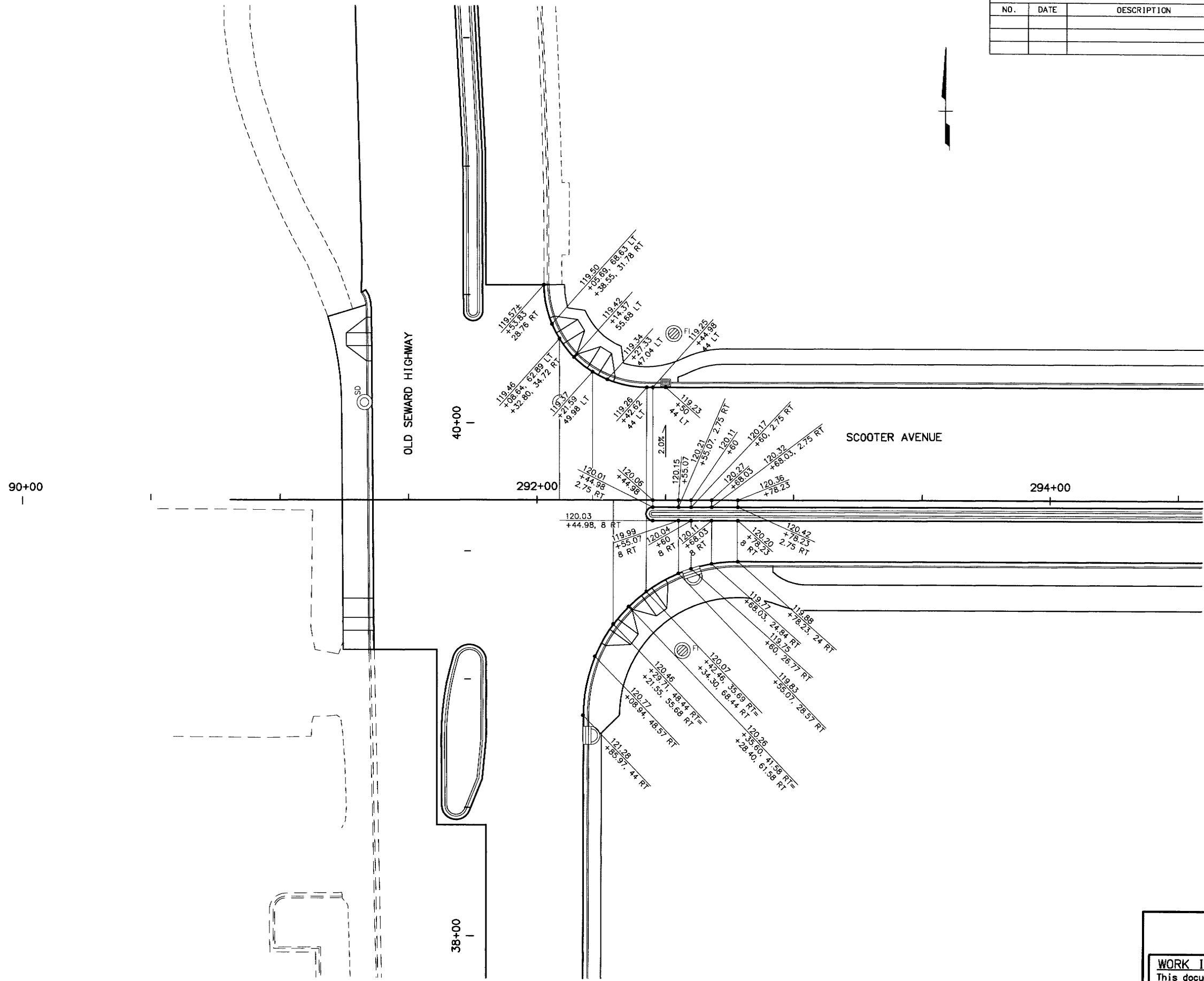
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

GRADING PLAN

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DESIGNED BY: XRF'S
CHECKED BY: JMF
DRAFTED BY: CDB
SCALE: 1" = 20'
LAYOUT: 61-08
DATE: 10/1/2013 11:08 AM
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	G6	G8



OLD SEWARD HIGHWAY AND SCOOTER AVENUE

SCALE: 1" = 20'

PS&E REVIEW 10/01/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

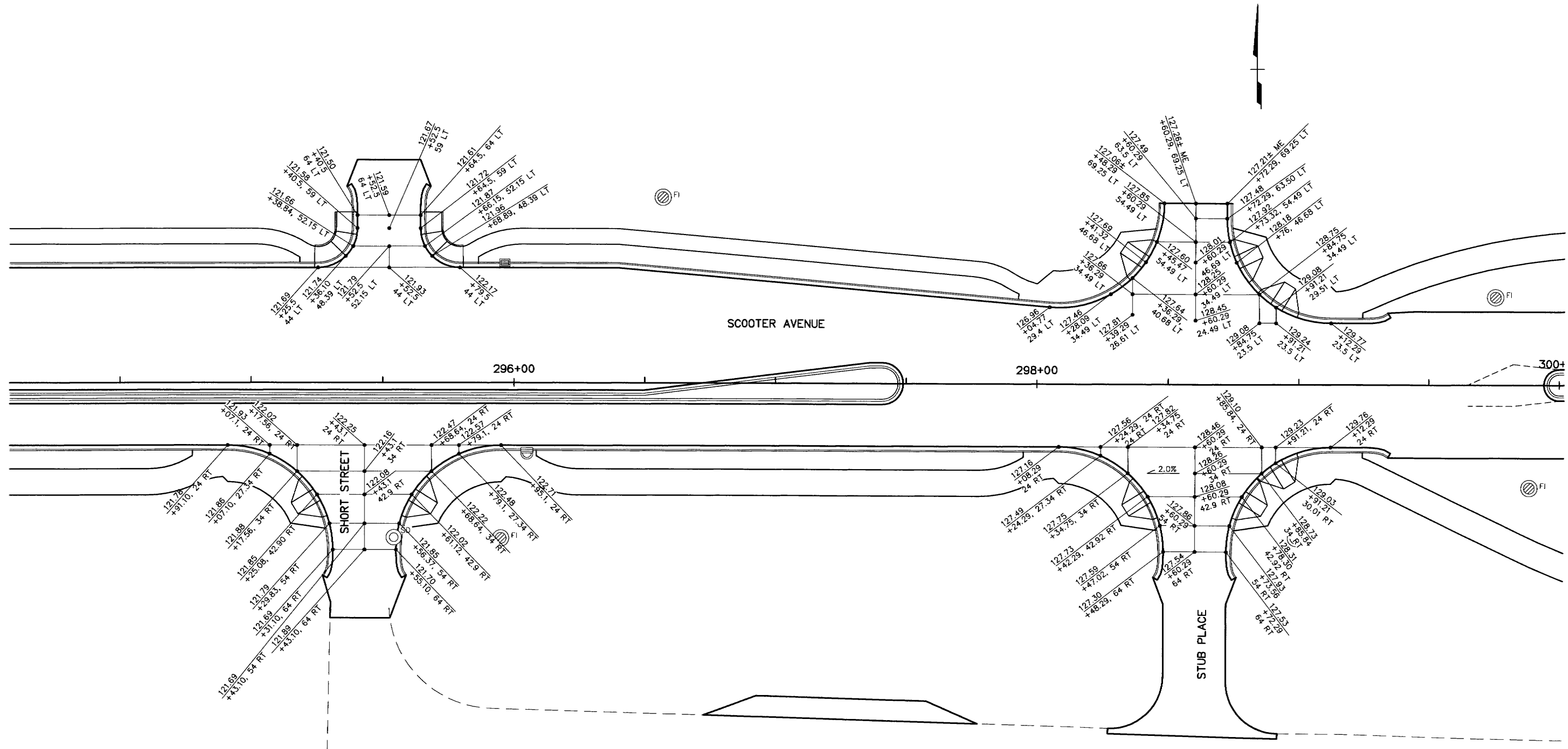
GRADING PLAN

WORK IN PROGRESS
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(See date @ left border)

HATTENBURG DILLEY & LINNELL

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DESIGNED BY: DIF
CHECKED BY: JMF
DRAWN BY: CDB
XREFS
SCALE
LAYOUT
DATE
TIME
1" = 20'

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	G7	G8



SHORT STREET AND SCOOTER AVENUE
SCALE: 1" = 20'

STUB PLACE AND SCOOTER AVENUE
SCALE: 1" = 20'

PS&E REVIEW 10/01/13

WORK IN PROGRESS
This document represents
current concepts as of ____
(See date @ left border)

HATTENBURG DILLEY & LINNELL

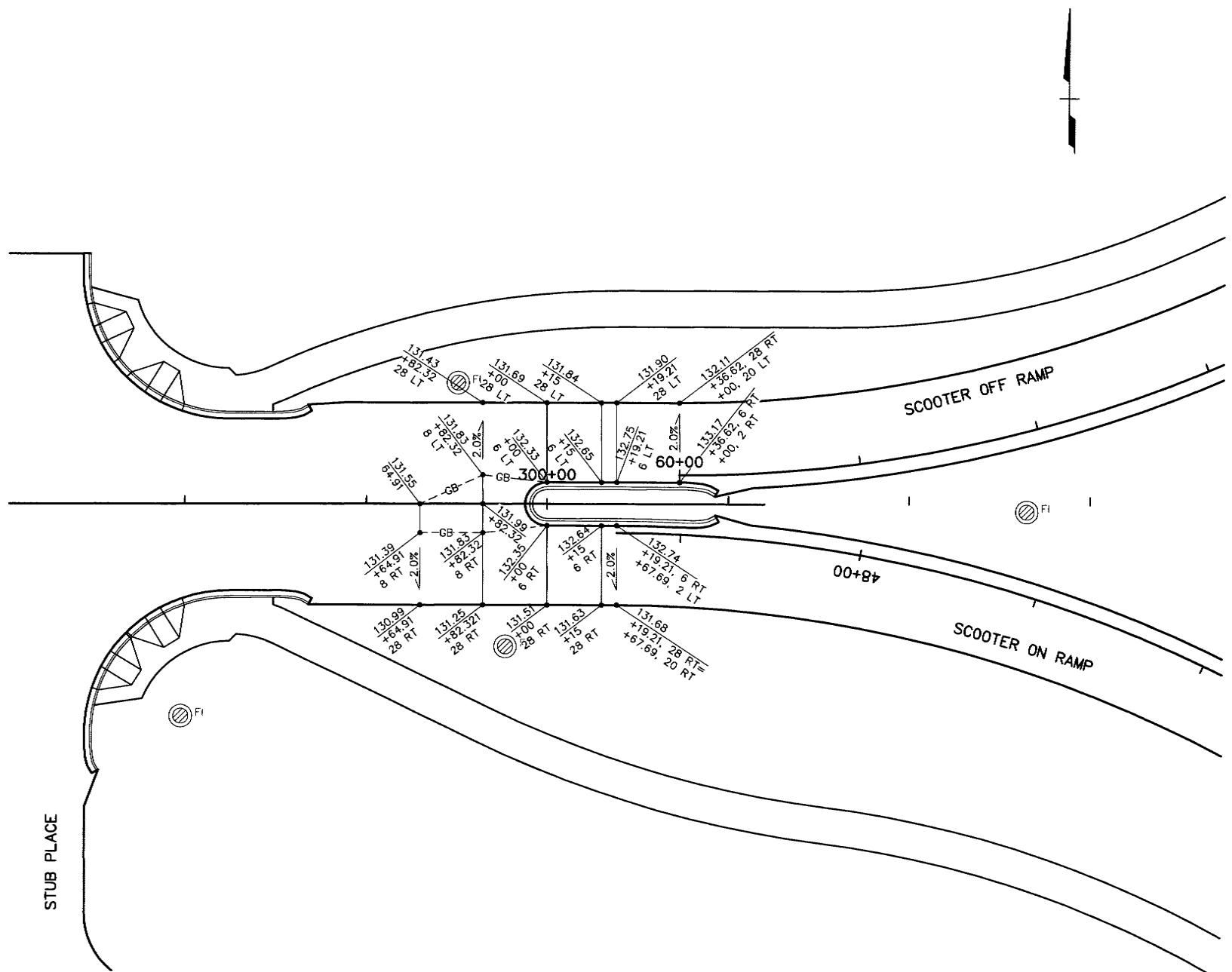
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

GRADING PLAN

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G1-G8
DATE TIME
10/1/2013 11:08 AM
DESIGNED BY DIF
CHECKED BY JIM
DRAFTED BY CDB

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	G8	G8



SCOOTER AVENUE AND RAMPS
SCALE: 1" = 20'

PS&E REVIEW 10/01/13

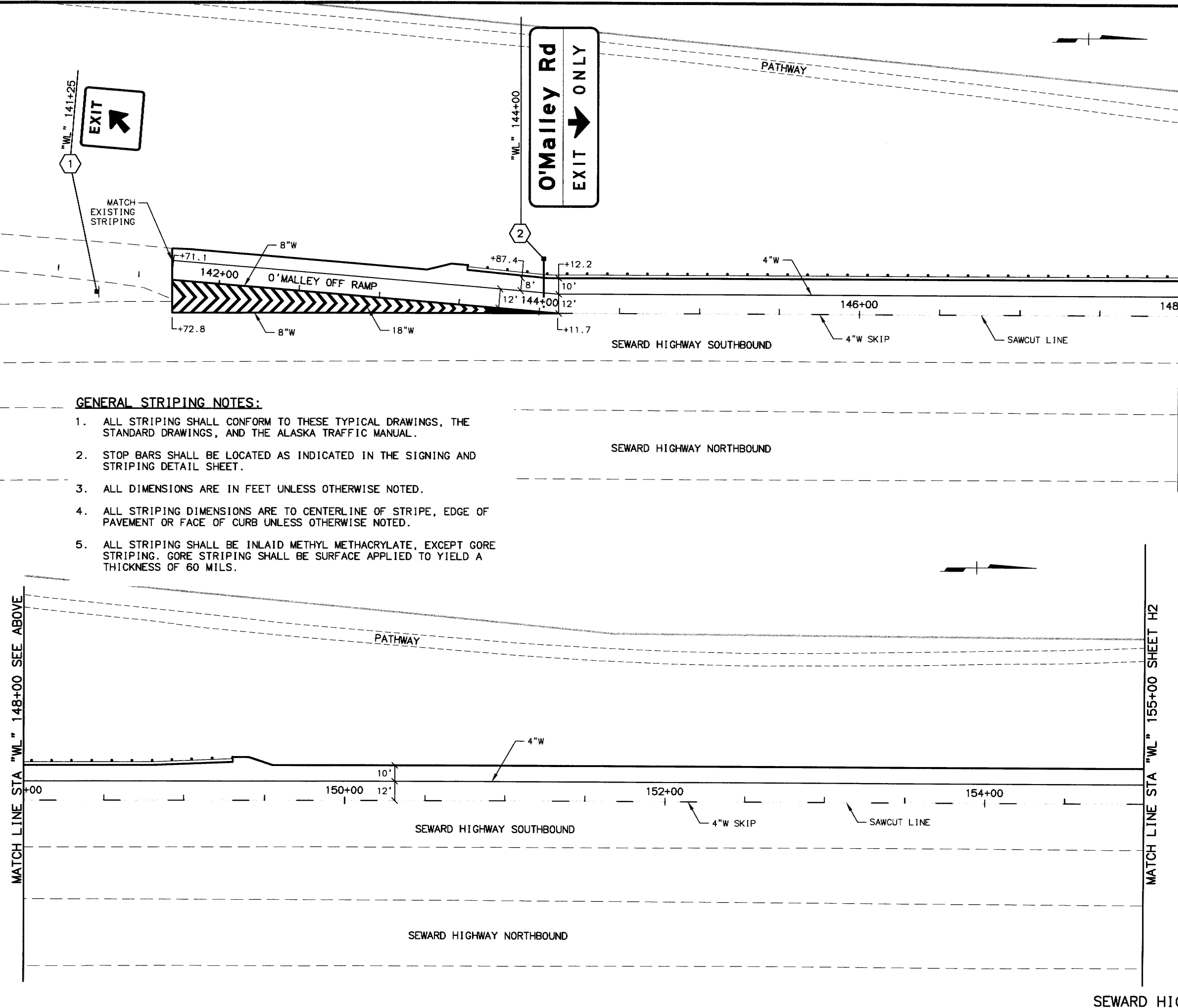
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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

GRADING PLAN

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DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY COB
XREFS
SCALE
LAYOUT
SEWARD
DATE
TIME
10/1/2013 9:32 AM
ALARSEN
08022_00-H01-H09.dwg



GENERAL STRIPING NOTES:

1. ALL STRIPING SHALL CONFORM TO THESE TYPICAL DRAWINGS, THE STANDARD DRAWINGS, AND THE ALASKA TRAFFIC MANUAL.
2. STOP BARS SHALL BE LOCATED AS INDICATED IN THE SIGNING AND STRIPING DETAIL SHEET.
3. ALL DIMENSIONS ARE IN FEET UNLESS OTHERWISE NOTED.
4. ALL STRIPING DIMENSIONS ARE TO CENTERLINE OF STRIPE, EDGE OF PAVEMENT OR FACE OF CURB UNLESS OTHERWISE NOTED.
5. ALL STRIPING SHALL BE INLAID METHYL METHACRYLATE, EXCEPT GORE STRIPING. GORE STRIPING SHALL BE SURFACE APPLIED TO YIELD A THICKNESS OF 60 MILS.

MATCH LINE STA "WL" 148+00 SEE BELOW

MATCH LINE STA "WL" 148+00 SEE ABOVE

MATCH LINE STA "WL" 155+00 SHEET H2

SEWARD HIGHWAY "WL" "WL" 141+25 TO "WL" 155+00

SHEET NO.		TOTAL SHEETS	
H1		H16	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

DIMOND BLVD
SCOOTER AVENUE
OLD SEWARD
SEWARD HIGHWAY
O'MALLEY RD
PS&E REVIEW 10/01/13

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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SEWARD HIGHWAY
SIGNING AND STRIPING
"WL" 141+25 TO "WL" 155+00

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DESIGNED BY JMF
CHECKED BY JMF
DRAFTED BY CDB

DRAWING LOCATION

11/01/2013 09:32 AM
DATE
TIME
10/1/2013 9:32 AM
DATE
TIME
10/1/2013 9:32 AM
DATE
TIME

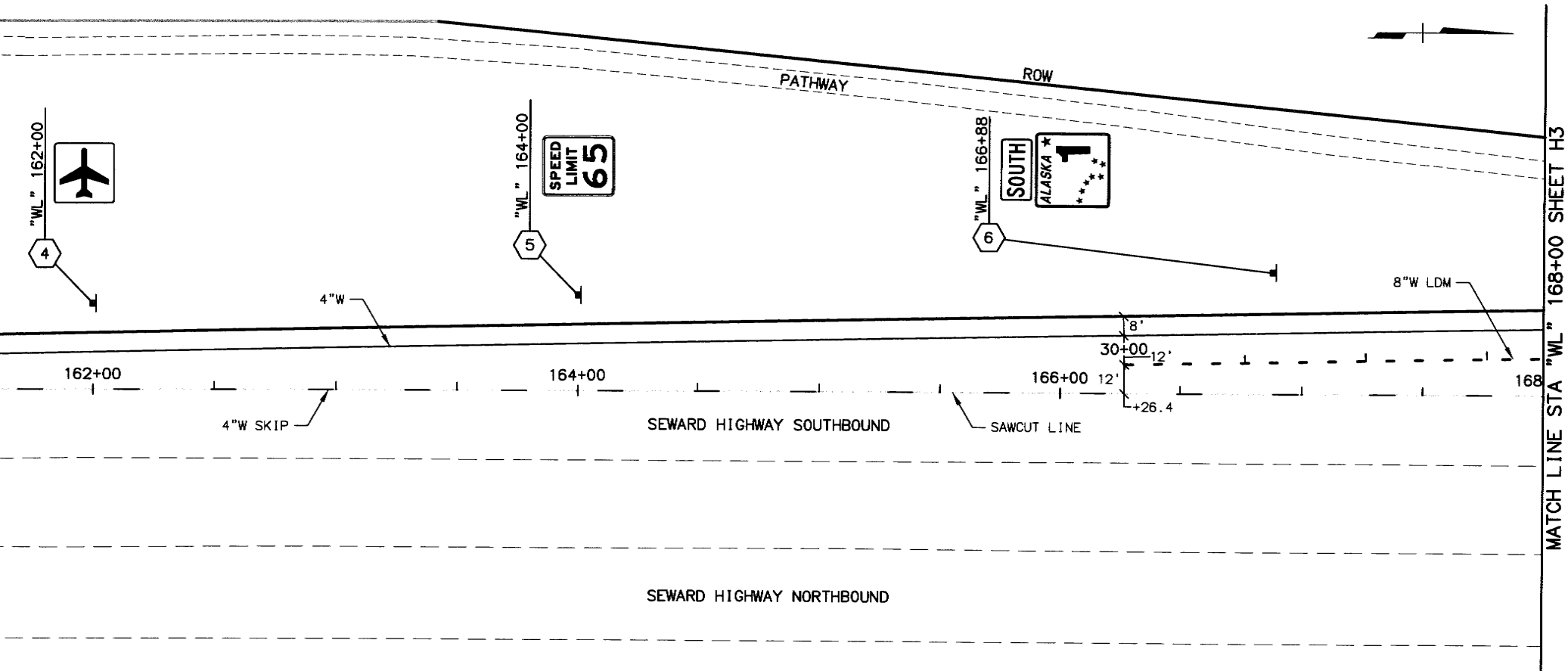
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LAYOUT

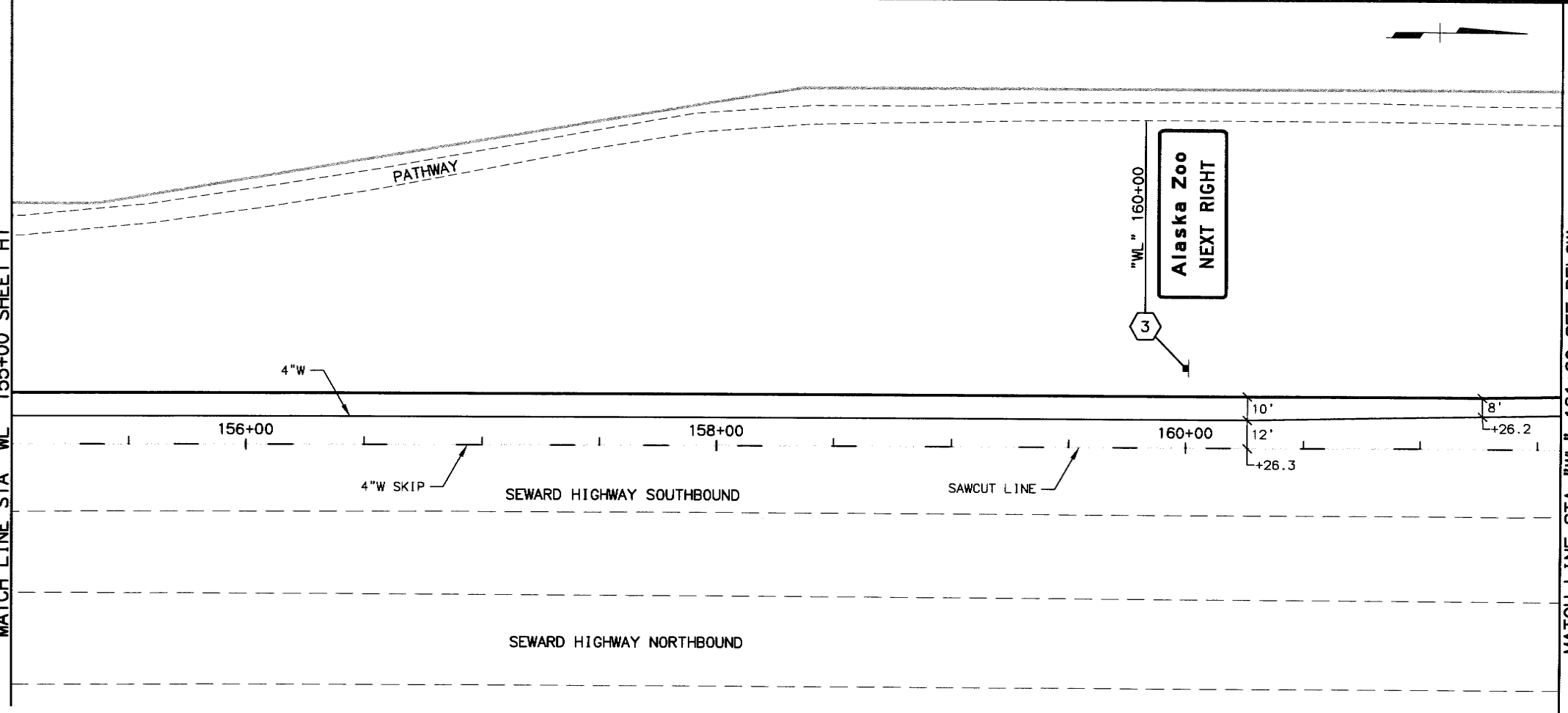
SEWARD

MATCH LINE STA "WL" 161+60 SEE ABOVE

MATCH LINE STA "WL" 155+00 SHEET H1



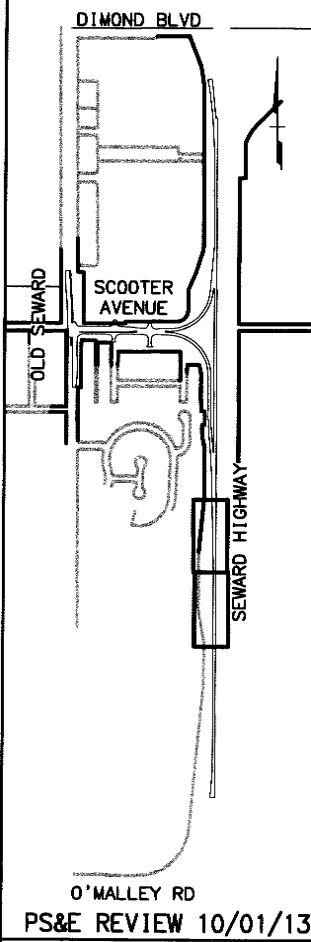
MATCH LINE STA "WL" 168+00 SHEET H3



MATCH LINE STA "WL" 161+60 SEE BELOW

SEWARD HIGHWAY "WL" 155+00 TO "WL" 168+00

SHEET NO.	TOTAL SHEETS	
H2	H16	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

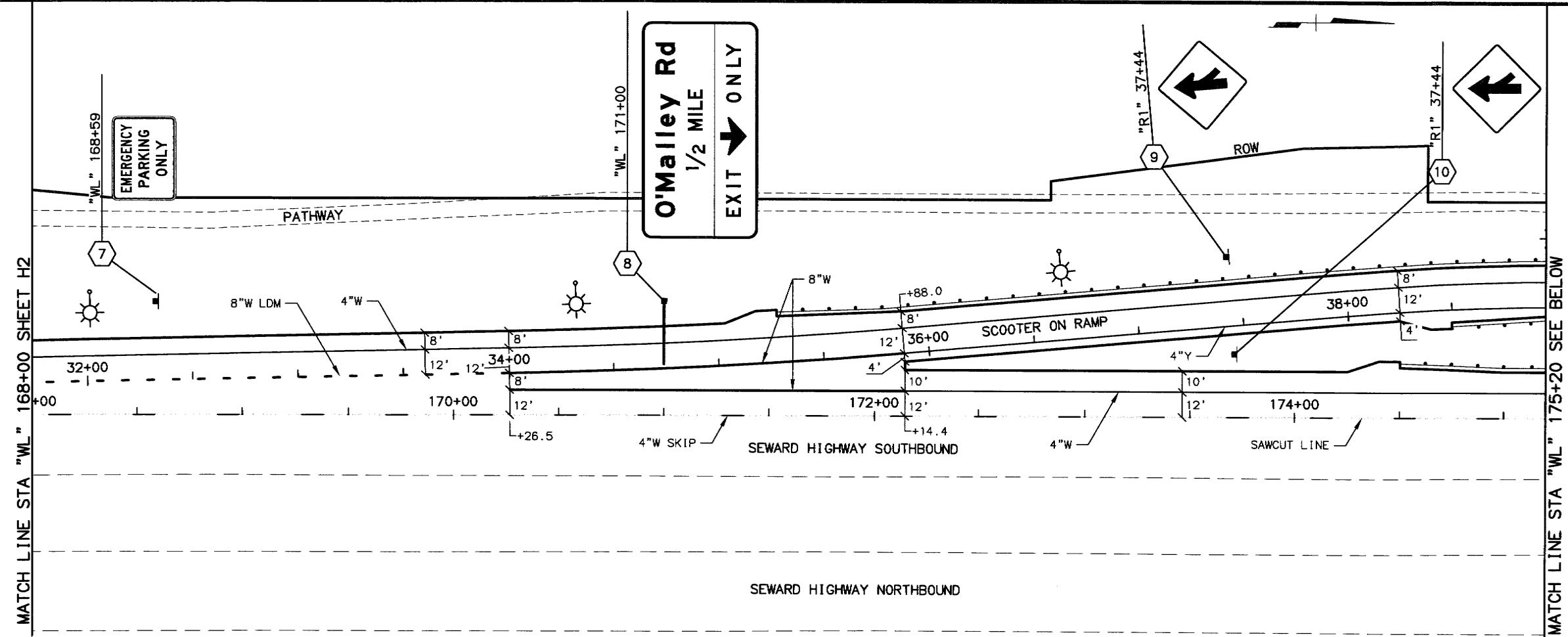
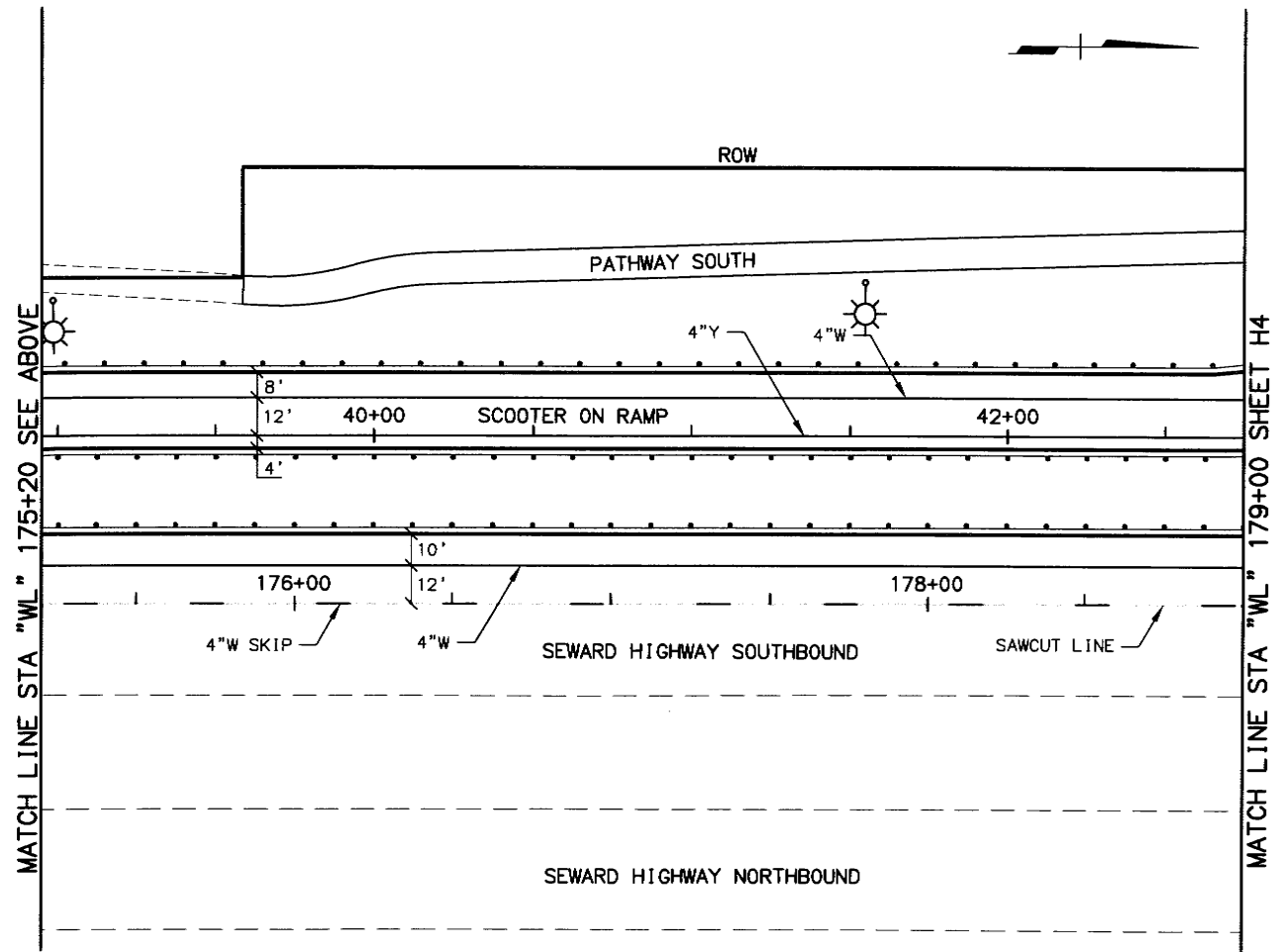


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HATTENBURG DILLEY & LINNELL
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SEWARD HIGHWAY
SIGNING AND STRIPING
"WL" 155+00 TO "WL" 168+00

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DATE TIME
LAYOUT SCALE
SHEETS
DESIGNED BY DIF
CHECKED BY JUP
DRAWN BY CUB



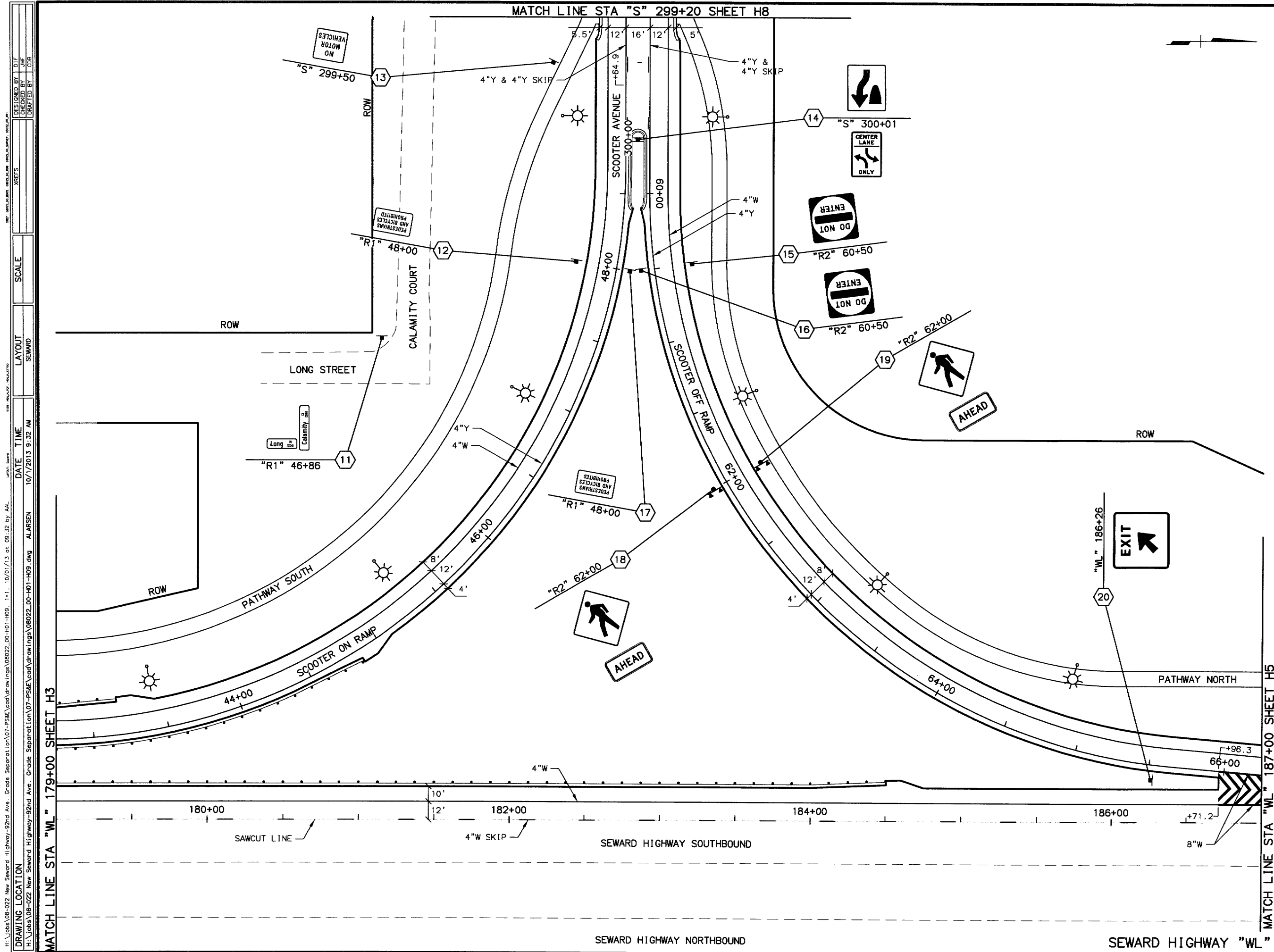
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H3	H16	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD
OLD SEWARD
SCOOTER AVENUE
SEWARD HIGHWAY
O'MALLEY RD
PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR
SEWARD HIGHWAY
SIGNING AND STRIPING
"WL" 168+00 TO "WL" 179+00

SEWARD HIGHWAY "WL"



SHEET NO.
H4

TOTAL SHEETS
H16

STATE
ALASKA

YEAR
2014

PROJECT DESIGNATION
59770

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO.	DATE	DESCRIPTION

DIMOND BLVD

SCOOTER AVENUE

SEWARD HIGHWAY

OLD SEWARD

0' MALLEY RD

PS&E REVIEW 10/01/13

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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

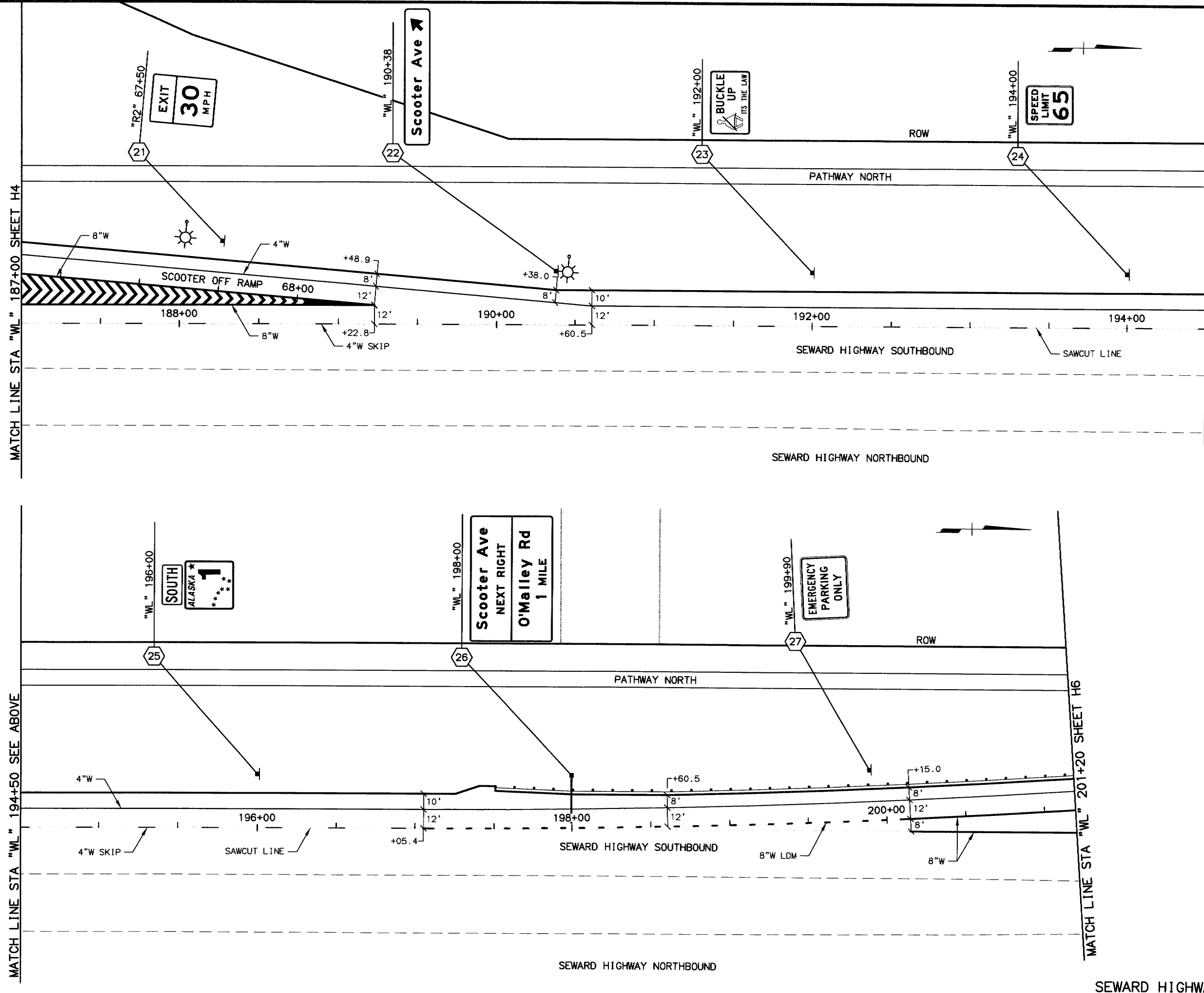
SEWARD HIGHWAY
SIGNING AND STRIPING
"WL" 179+00 TO "WL" 187+00

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CHECKED BY: JIF
DATE: 10/1/2013 9:32 AM
SCALE: 1"=40'
LAYOUT: SEWARD
DATE: 10/1/2013 9:32 AM
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ALASKA: ALARSEN
PROJECT: 59770
SHEET: H4

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DESIGNED BY DIF
CHECKED BY JMF
DRAWN BY CUB
SCALE
LAYOUT SEWARD
DATE TIME 10/1/2013 9:32 AM
ALARSEN
08022-00-H01-H09.dwg
07-PS&E\cadd\Drawings\08022-00-H01-H09-1-1_10/01/13 at 09:32 by AAL

MATCH LINE STA "WL" 187+00 SHEET H4

MATCH LINE STA "WL" 194+50 SEE ABOVE



MATCH LINE STA "WL" 194+50 SEE BELOW

SHEET NO.	TOTAL SHEETS	
H5	H16	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD
SCOOTER AVENUE
SEWARD HIGHWAY
OLD SEWARD

O'MALLEY RD
PS&E REVIEW 10/01/13

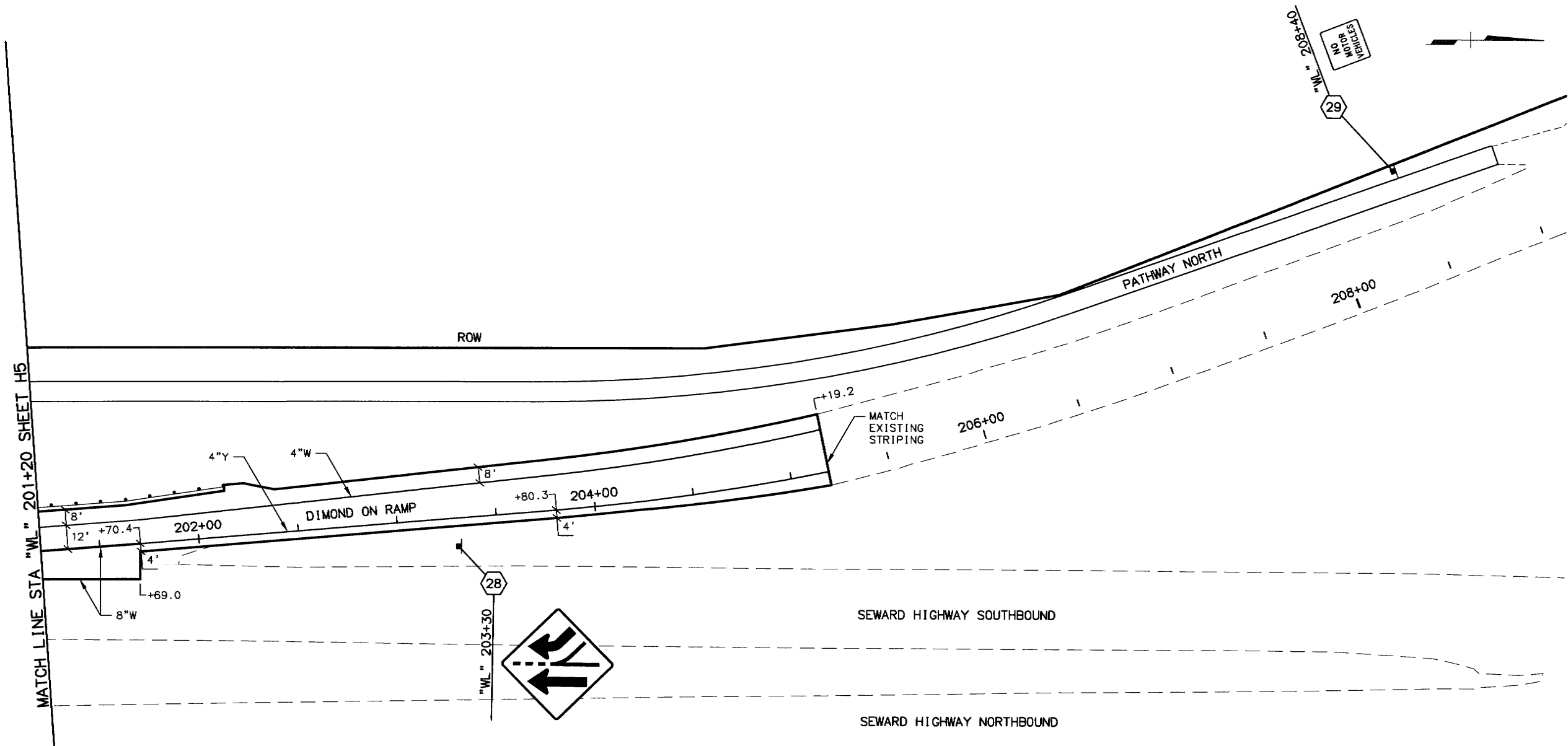
WORK IN PROGRESS
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HATTENBURG DILLEY & LINNELL
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR
SEWARD HIGHWAY
SIGNING AND STRIPING
"WL" 187+00 TO "WL" 201+20

SEWARD HIGHWAY "WL"

"WL" 187+00 TO "WL" 201+20

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DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY CDB
XREFS
SCALE
LAYOUT SEWARD
DATE TIME
DRAWING LOCATION



SHEET NO.	TOTAL SHEETS	
H6	H16	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

PS&E REVIEW 10/01/13

WORK IN PROGRESS
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HATTENBURG DILLEY & LINNELL

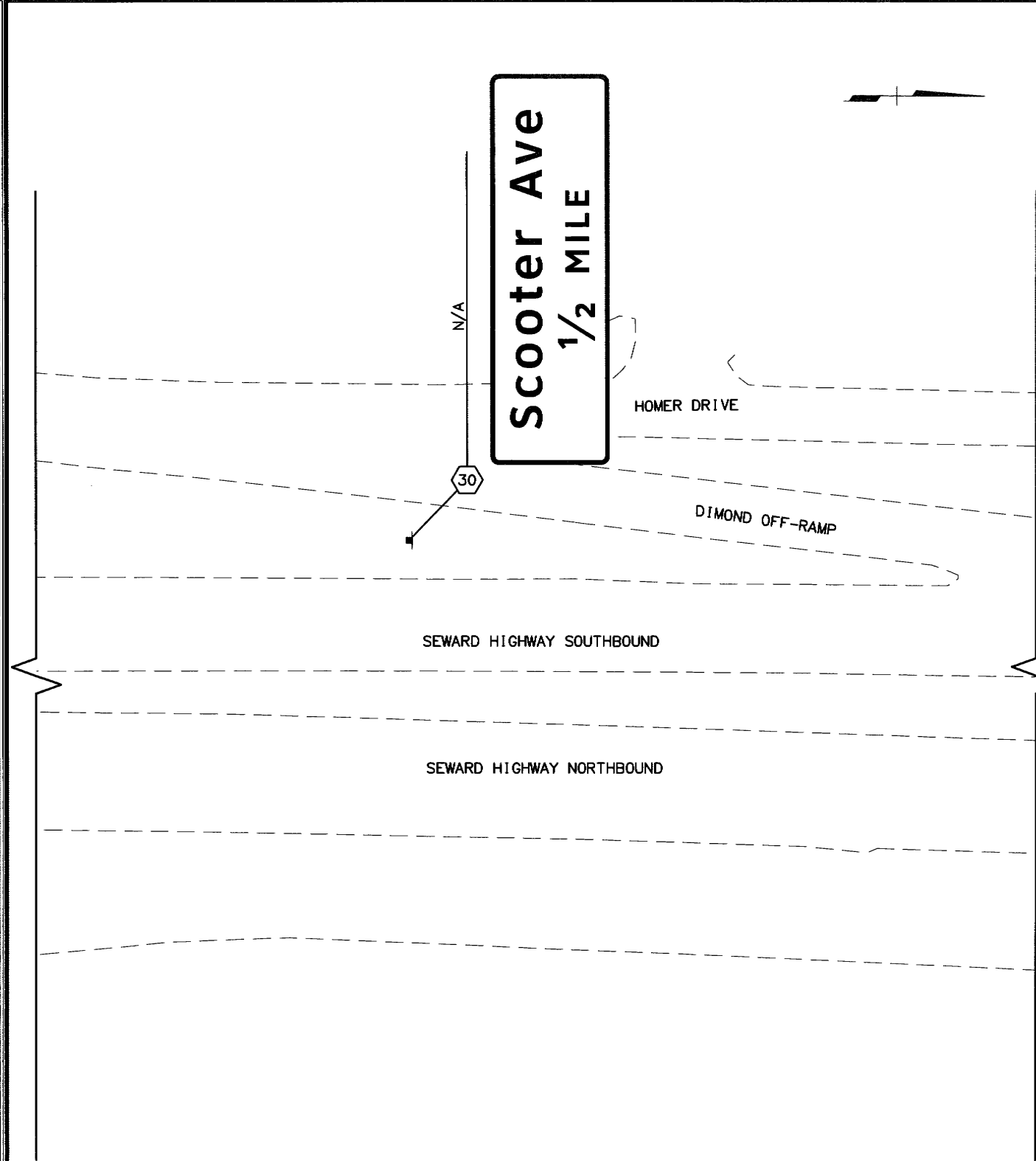
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SEWARD HIGHWAY
SIGNING AND STRIPING
"WL" 201+20 TO "WL" 208+40

SEWARD HIGHWAY "WL"

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LAYOUT SCALE
DESIGNED BY DTF
CHECKED BY JUB
DRAFTED BY CBB



NOTE:
1. LOCATION IS APPROXIMATE, TO BE VERIFIED BY THE ENGINEER.

SHEET NO.		TOTAL SHEETS	
H7		H16	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

Inset map showing the project location relative to Dimond Blvd, Scooter Avenue, Old Seward, and Seward Highway.

0' MALLEY RD
PS&E REVIEW 10/01/13

WORK IN PROGRESS
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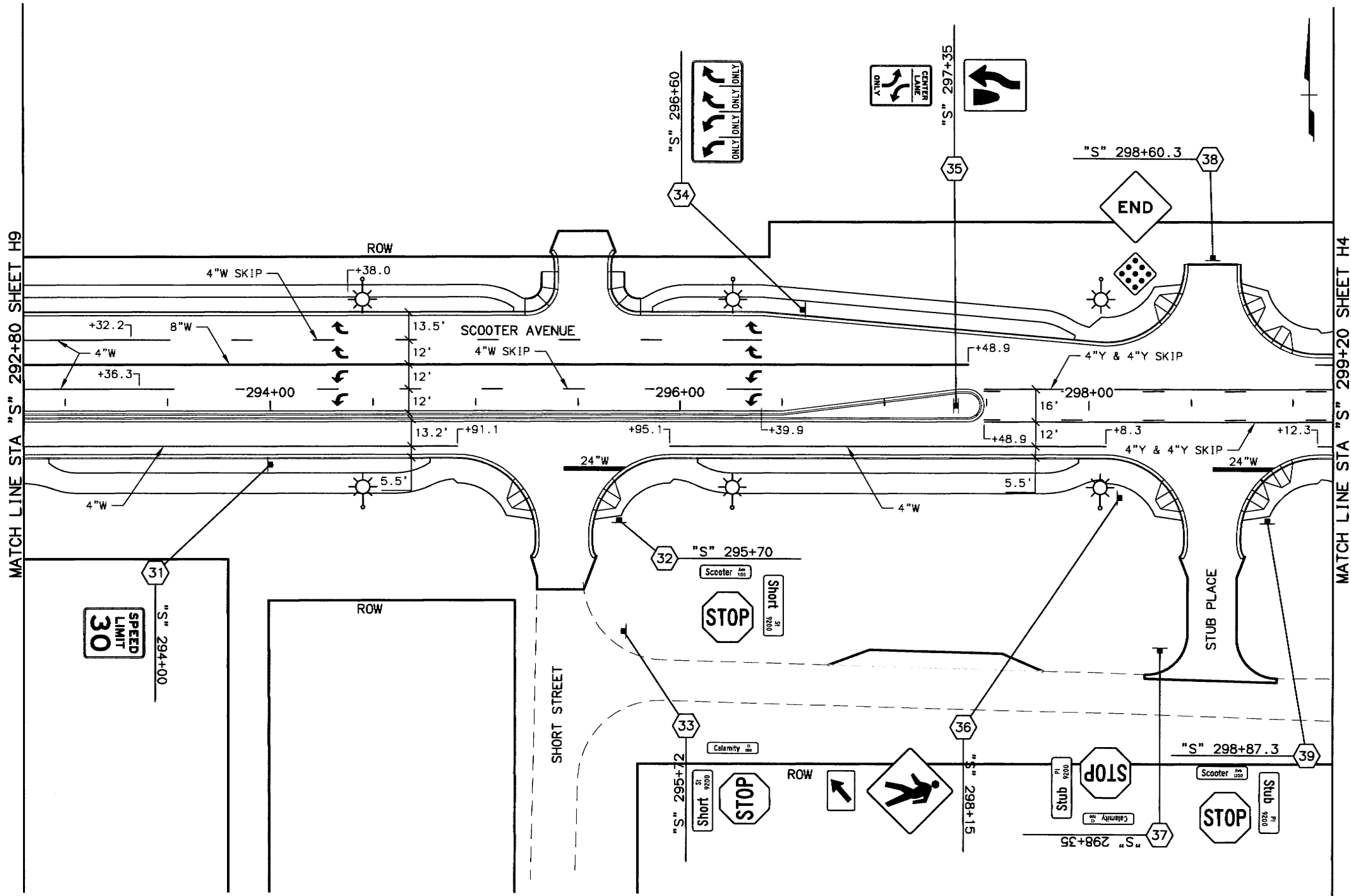
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SEWARD HIGHWAY
SIGNING AND STRIPING

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DESIGNED BY XREES CHECKED BY JMF DRAWN BY CDB



SHEET NO.	TOTAL SHEETS	
H8	H16	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

0' MALLEY RD
PS&E REVIEW 10/01/13

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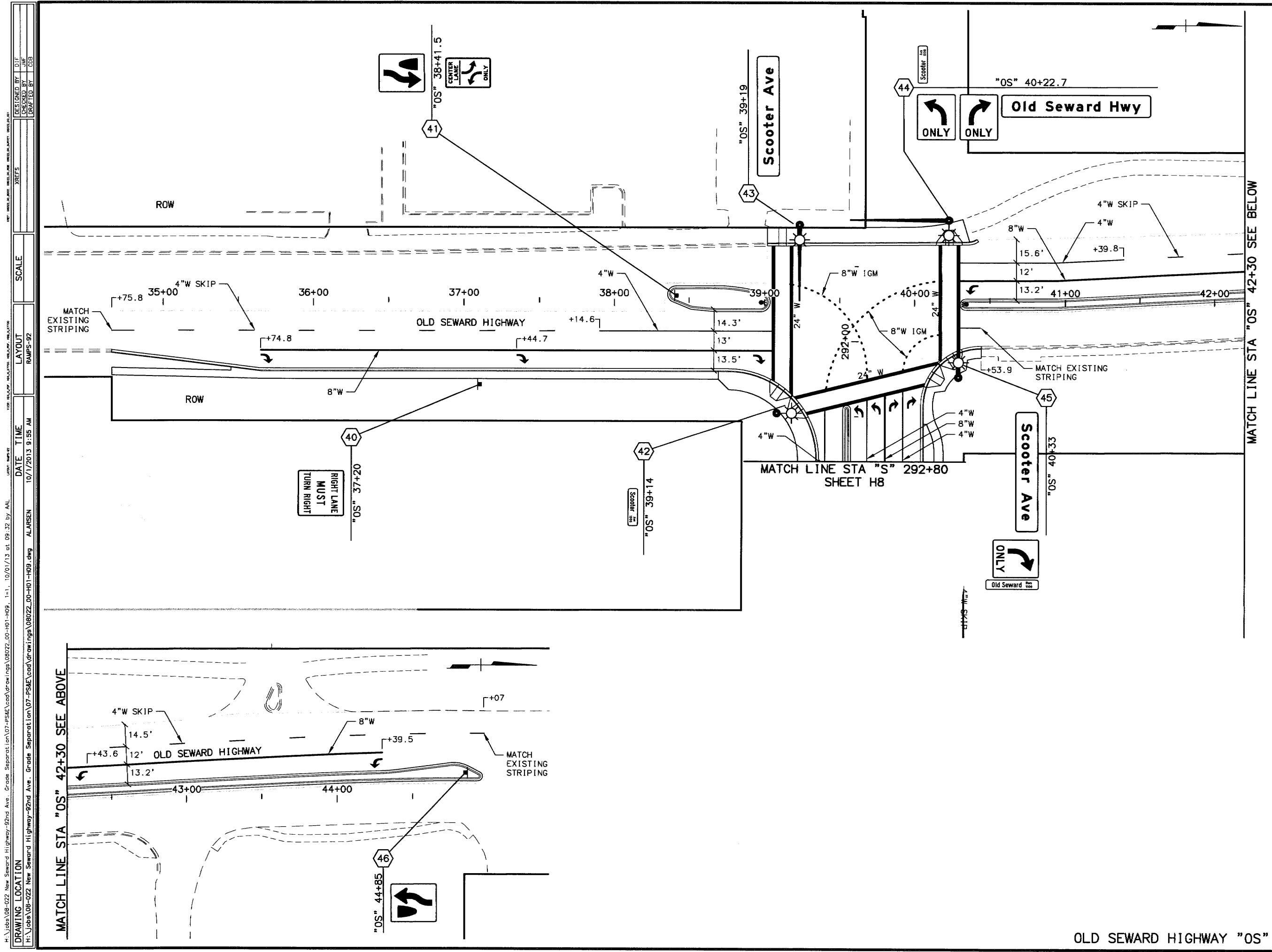
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SCOOTER AVENUE
SIGNING AND STRIPING
"S" 292+80 TO "S" 299+20

SCOOTER AVENUE "S"



SHEET NO.		TOTAL SHEETS	
H9		H16	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

0' MALLEY RD
PS&E REVIEW 10/01/13

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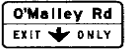
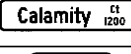
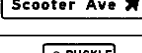
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

OLD SEWARD HIGHWAY
SIGNING AND STRIPING
"OS" 34+75 TO "OS" 45+07

OLD SEWARD HIGHWAY "OS"

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DATE 10/2/2013 4:48 PM
TIME
LAYOUT H10-H12
SCALE
XREFS
DESIGNED BY DIF
CHECKED BY GDB
DRAFTED BY

SIGN SUMMARY													
SHEET NO.	POST NO.	STATION	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA SQ FT	SIGN FACES	POSTS	THICKNESS (IN)		REMARKS
						NO., SIZE, & TYPE	FRAMED			YES	NO		
H1	1	"WL " 141+25.0	RT	E5-1		60	60	25.00	N	3.5" TS	X		LETTERS - 10" 5-W
	2	"WL " 144+00.0	LT	E10-11		180	70	87.50	N	OVERHEAD CANTILEVER	X		
H2	3	"WL " 160+00.0	LT	SPECIAL		72	30	15.00	N	(2) 2.5" PST	X		LETTERS - 6" 5-W
	4	"WL " 162+00.0		I-5		30	30	6.25	N	2.5" PST		X	
	5	"WL " 164+00.0	LT	R2-1		48	60	20.00	N	3.5" TS	X		
	6	"WL " 166+88.0	LT	M3-3		30	15	3.13	N			X	MOUNT ON LIGHT POLE
				M1-5		36	36	9.00	N		X		MOUNT ON LIGHT POLE
H3	7	"WL " 168+59.0	LT	R8-4		48	36	12.00	N		X		MOUNT ON LIGHT POLE
	8	"WL " 171+00.0	LT	SPECIAL		180	96	120.00	N	OVERHEAD CANTILEVER	X		
	9	"R1" 37+44.0	LT	W4-1R		48	48	16.00	N		X		MOUNT ON LIGHT POLE
	10	"R1" 37+44.0	RT	W4-1R		48	48	16.00	N	3.0" TS	X		
H4	11	"R1" 46+86.0	LT	D3-1D		24	8	2.67	E/W	2.5" PST		X	
				D3-1D		36	8	4.00	N/S		X		
	12	"R1" 48+00.0	LT	R5-10B		30	18	3.75	W	2.0" PST		X	
	13	"S" 299+50.0	LT	R5-3		24	24	4.00	W	2.0" PST		X	
	14	"S" 300+01.0	CL	R4-7		30	36	7.50	W	2.5" TS		X	
				R3-9B		24	36	6.00	E			X	
	15	"R2" 60+50.0	LT	R5-1		48	48	16.00	SW	2.0" PST	X		
	16	"R2" 60+50.0	RT	R5-1		48	48	16.00	SW	2.0" PST	X		
	17	"R1" 48+00.0	RT	R5-10B		30	18	3.75	W	2.0" PST		X	
	18	"R2" 62+00.0	LT	W11-2		36	36	9.00	NE	3.0" TS	X		
				W16-9P		36	18	4.50	NE		X		
	19	"R2" 62+00.0	RT	W11-2		36	36	9.00	NE	3.0" TS	X		
				W16-9P		36	18	4.50	NE		X		
	20	"WL " 186+26.0	LT	E5-1		60	60	25.00	N	3.5" TS	X		
H5	21	"R2" 67+50.0	LT	W13-2		48	60	20.00	N	3.5" TS	X		
	22	"WL " 190+38.0	LT	E4-11		222	42	64.75	N	W6X15	X		LETTERS - 16" 5-W
	23	"WL " 192+00.0	LT	R16-1		48	30	10.00	N	2.5" TS	X		
	24	"WL " 194+00.0	LT	R2-1		48	60	20.00	N	3.5" TS	X		

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	H10	H16

GENERAL SIGNING NOTES

1. THE POST TYPES INDICATED IN THIS SUMMARY ARE ABBREVIATED:
TS = SQUARE STEEL TUBE
PST = PERFORATED STEEL TUBE
W = "W" SHAPED BEAM
2. SIGNS SHIELDED BY GUARDRAIL THAT ARE GREATER THAN 75' FROM THE GUARDRAIL END POST DO NOT REQUIRE BREAKAWAY BASES.
SEE STANDARD DRAWING S-32.00
3. ALL PST POSTS SHALL BE INSTALLED WITH CONCRETE FOUNDATIONS.

PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SIGNING AND STRIPING
SIGN SUMMARY AND NOTES

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CHECKED BY: JMF
DRAFTED BY: CDB
XREFS
SCALE
LAYOUT
H10-H12
DATE
TIME
10/2/2013 4:48 PM
DRAWING LOCATION
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SIGN SUMMARY													
SHEET NO.	POST NO.	STATION	CL REF.	TYPE	LEGEND	SIZE (IN)		AREA SQ FT	SIGN FACES	POSTS	THICKNESS (IN)		REMARKS
						NO., SIZE, & TYPE	FRAMED						
							WIDTH	HEIGHT		YES	NO		
	25	"WL" 196+00.0	LT	M3-3		30	15	3.13	N	2.5" TS		X	
				M1-5		36	36	9.00	N		X		
	26	"WL" 198+00.0	LT	SPECIAL		192	126	168.00	N	OVERHEAD CANTILEVER	X		
	27	"WL" 199+90.0	LT	R8-4		48	36	12.00	N	3.0" TS	X		
H6	28	"WL" 203+30.0	RT	W4-3R		48	48	16.00	N	3.5" TS	X		
	29	"WL" 208+40.0	LT	R5-3		24	24	4.00	N	2.0" PST		X	
H7	30	N/A	RT	SPECIAL		192	60	80.00	N	(3) W6X15	X		LOCATION IS APPROXIMATE
H8	31	"S" 294+00.0	RT	R2-1		30	36	7.50	W	2.5" PST		X	
	32	"S" 295+70.0	RT	R1-1		30	30	6.25	S	2.5" PST		X	
				D3-1D		30	8	3.33	N/S			X	
				D3-1D		36	12	6.00	E/W		X		
	33	"S" 295+72.0	RT	R1-1		30	30	6.25	E	2.5" PST		X	
				D3-1D		36	12	6.00	E/W		X		
				D3-1D		36	8	4.00	N/S		X		
	34	"S" 296+60.0	LT	R3-8LLRR		60	30	12.50	E	(2) 2.0" PST	X		
	35	"S" 297+35.0	RT	R4-7		30	36	7.50	E	2.5" TS		X	
				R3-9B		24	36	6.00	E			X	
	36	"S" 298+15.0	RT	W11-2		36	36	9.00	W	2.5" TS	X		
				W16-7P		30	18	3.75	W			X	
	37	"S" 298+35.0	RT	R1-1		30	30	6.25	N	2.5" PST		X	
				D3-1D		36	8	4.00	N/S		X		
				D3-1D		36	12	6.00	E/W		X		
	38	"S" 298+60.3	LT	W14-100		36	36	9.00	S	2.5" PST	X		
				OM1-11		18	18	2.25	S			X	
	39	"S" 298+87.3	RT	R1-1		30	30	6.25	S	2.5" PST		X	
				D3-1D		30	8	3.33	N/S			X	
				D3-1D		36	12	6.00	E/W		X		
H9	40	"OS" 37+20.0	RT	R3-7R		36	36	9.00	S	2.5" PST	X		
	41	"OS" 38+41.5	LT	R4-7		30	36	7.50	S	2.5" PST		X	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	H11	H16

PS&E REVIEW 10/01/13

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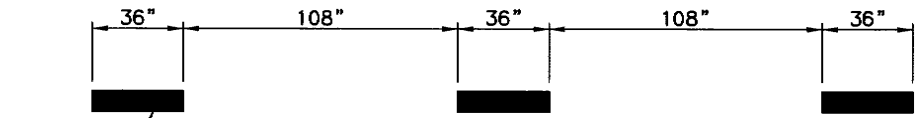
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SIGNING AND STRIPING
SIGN SUMMARY

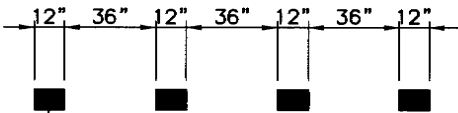
HATTENBURG DILLEY & LINNELL

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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	H13	H16



8" WHITE LANE DROP MARKINGS (LDM) - TYPICAL



8" WHITE INTERSECTION GUIDE MARKINGS (IGM) - TYPICAL

PAVEMENT MARKINGS DETAIL
NTS

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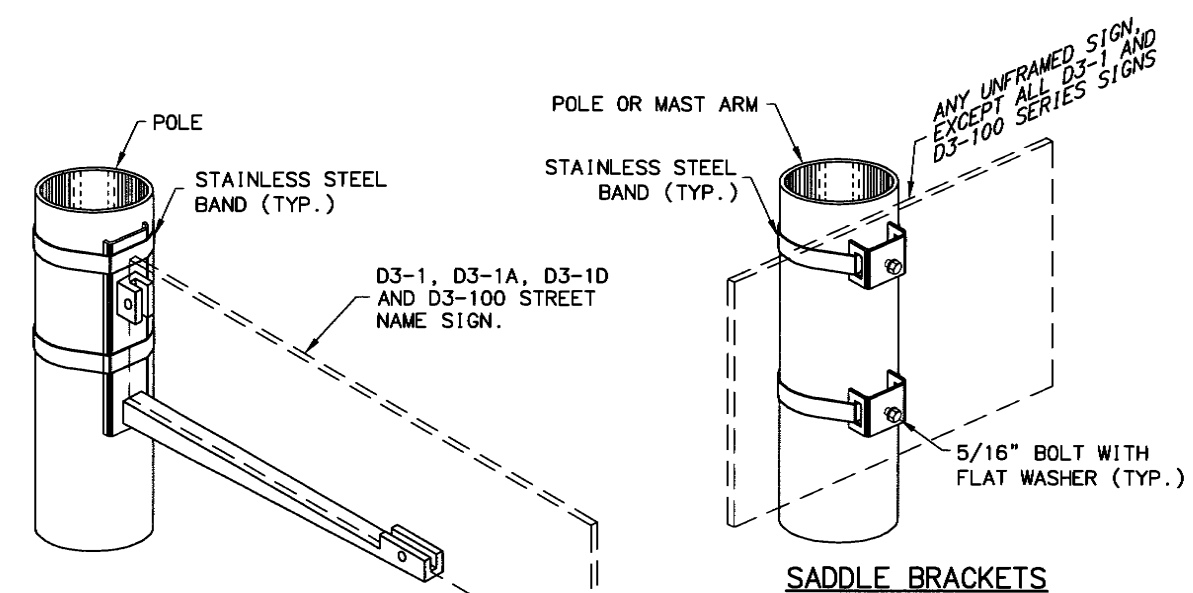
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

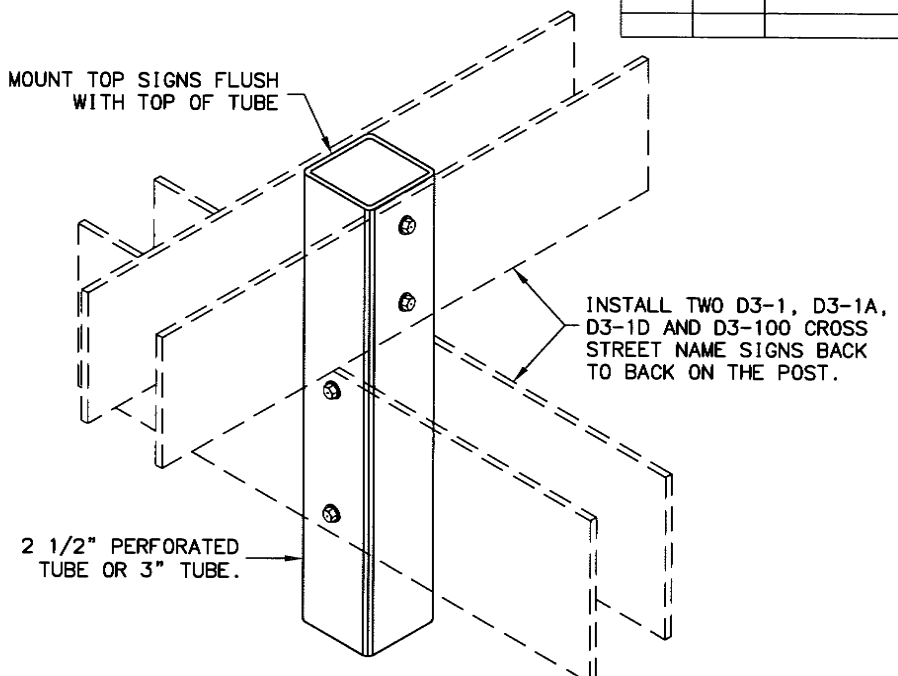
SIGNING AND STRIPING
STRIPING DETAILS

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DATE 9/27/2013 1:03 PM
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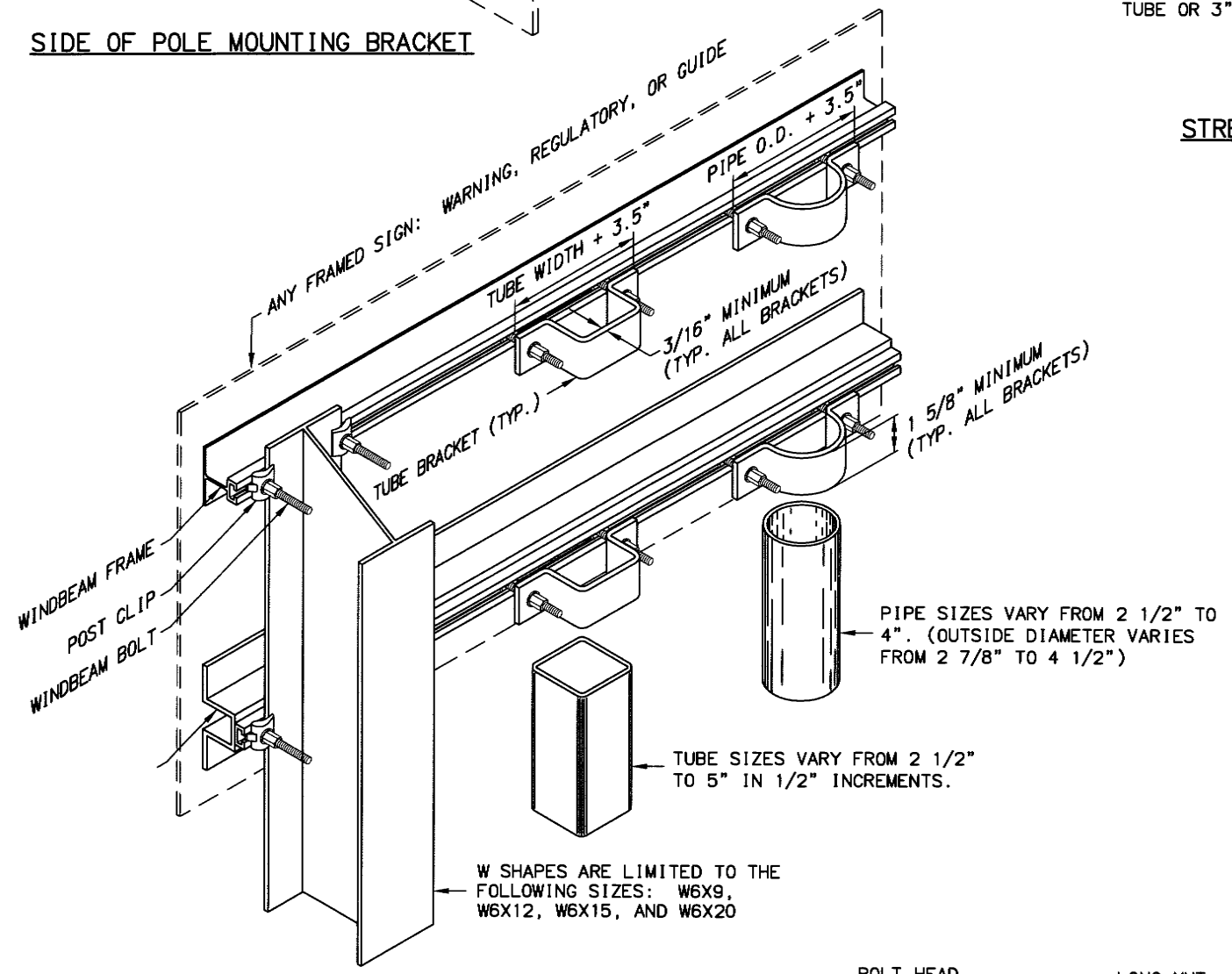
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NO.	DATE	DESCRIPTION					
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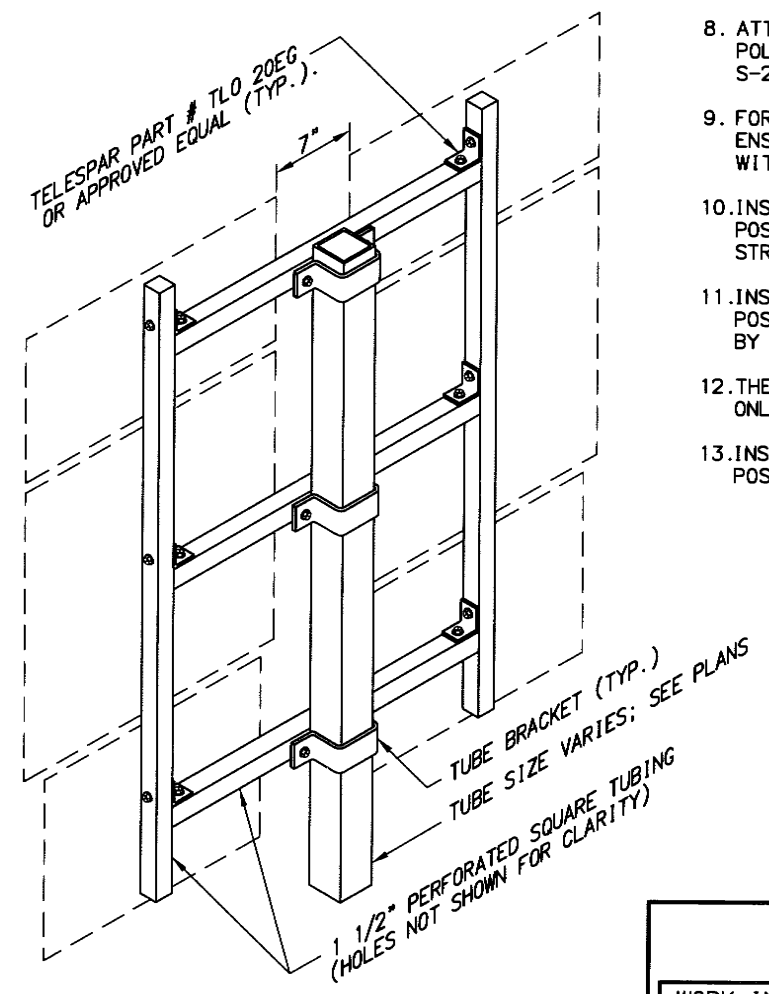
SIDE OF POLE MOUNTING BRACKET



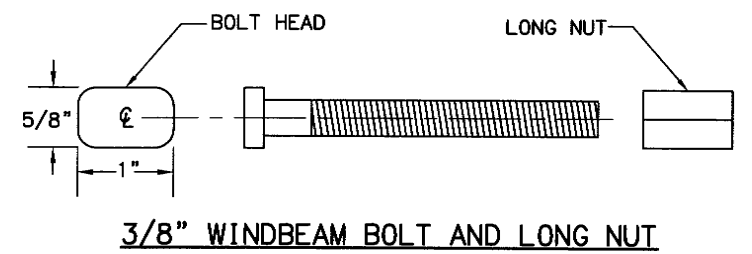
STREET NAME SIGN INSTALLATION



FRAMED SIGN ATTACHMENT BRACKETS



ROUTE MARKER TREE



3/8" WINDBEAM BOLT AND LONG NUT

NOTES:

1. EXCEPT FOR POLES AND MAST ARMS, ONLY USE TUBES TO SUPPORT SIGNS MOUNTED ON ONE POST.
2. ATTACH SIGNS, FRAMED AND UNFRAMED TO THEIR SUPPORTS WITH ZINC PLATED 3/8" BOLTS, EXCEPT ATTACH UNFRAMED SIGNS TO PERFORATED TUBES WITH ACCESSORY DRIVE RIVETS AND TO SADDLES WITH 5/16" BOLTS.
3. BOLT UNFRAMED SIGNS DIRECTLY TO TUBES, AND ATTACH THEM TO POLES AND MAST ARMS WITH TWO SADDLES.
4. ATTACH BRACKETS TO POLES AND MAST ARMS WITH DOUBLE WRAPS OF 3/4" WIDE BY 0.020" THICK STAINLESS STEEL BANDING MATERIAL. TIGHTEN EACH BAND UNTIL IT STOPS MOVING THROUGH THE BUCKLE.
5. ATTACH FRAMED SIGNS TO POSTS WHEREVER THE FRAMES CROSS THE POSTS. AT EACH CROSSING, ATTACH THE SIGN USING TWO POST CLIPS ON W-SHAPE POSTS, A U-SHAPED BRACKET ON PIPES, AND A BRACKET WITH SQUARE CORNERS ON TUBES.
6. THE TUBE BRACKETS USED ON EVEN INCH SIZE TUBES MAY ALSO BE USED ON TUBES 1/2" SMALLER IN SIZE.
7. ONLY USE THE SPECIAL WINDBEAM BOLTS TO ATTACH SIGNS FRAMED WITH THE WINDBEAM FRAMING MATERIAL.
8. ATTACH FRAMED SIGNS TO POLES AND MAST ARMS USING POLE PLATES INSTALLED ACCORDING TO STANDARD DRAWING S-23.00
9. FOR ROUTE MARKER TREES, CUT PERFORATED TUBES TO ENSURE TIGHT FITTING JOINTS. ASSEMBLE THE PIECES WITH ACCESSORY ELL-SHAPED ANGLE BRACKETS.
10. INSTALL THE TOP EDGE OF SIGNS 1" ABOVE THE TOPS OF POSTS, EXCEPT FOR THE D3-1, D3-1A, D3-1D AND D3-100 STREET NAME SIGNS.
11. INSTALL THE TOP EDGE OF SIGNS 3" BELOW THE TOP OF POST, WHENEVER THEY ARE MOUNTED BELOW SIGNS SECURED BY POST TOP MOUNTING BRACKETS.
12. THE BRACKET DETAILS SHOWN INDICATE GENERAL DESIGNS ONLY. DESIGNS MAY VARY BY MANUFACTURER.
13. INSTALL WEATHER TIGHT CAPS ON ALL PIPE AND TUBE POSTS, EXCEPT PERFORATED TUBING.

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

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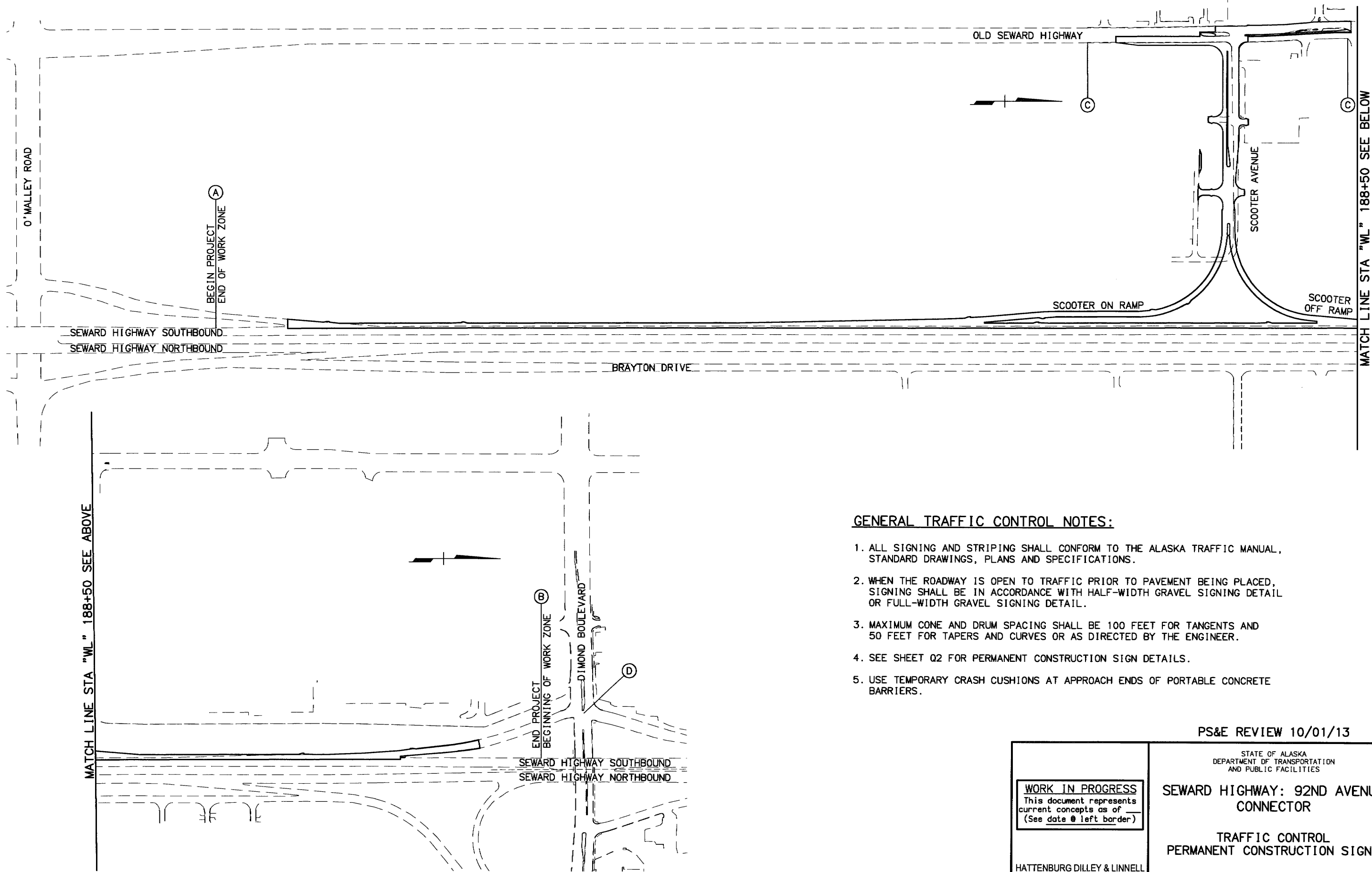
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STATE OF ALASKA
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AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR
SIGN ATTACHMENT DETAILS

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COURTBURGER
10/1/2013 11:10 AM
LAYOUT
SCALE
DESIGNED BY
CHECKED BY
DRAWN BY

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	J1	J10



GENERAL TRAFFIC CONTROL NOTES:

1. ALL SIGNING AND STRIPING SHALL CONFORM TO THE ALASKA TRAFFIC MANUAL, STANDARD DRAWINGS, PLANS AND SPECIFICATIONS.
2. WHEN THE ROADWAY IS OPEN TO TRAFFIC PRIOR TO PAVEMENT BEING PLACED, SIGNING SHALL BE IN ACCORDANCE WITH HALF-WIDTH GRAVEL SIGNING DETAIL OR FULL-WIDTH GRAVEL SIGNING DETAIL.
3. MAXIMUM CONE AND DRUM SPACING SHALL BE 100 FEET FOR TANGENTS AND 50 FEET FOR TAPERS AND CURVES OR AS DIRECTED BY THE ENGINEER.
4. SEE SHEET Q2 FOR PERMANENT CONSTRUCTION SIGN DETAILS.
5. USE TEMPORARY CRASH CUSHIONS AT APPROACH ENDS OF PORTABLE CONCRETE BARRIERS.

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

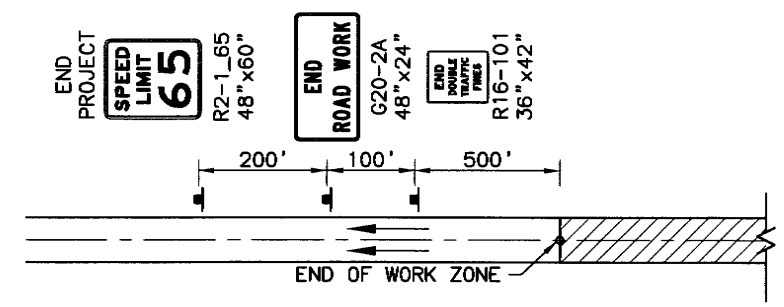
TRAFFIC CONTROL
PERMANENT CONSTRUCTION SIGNS

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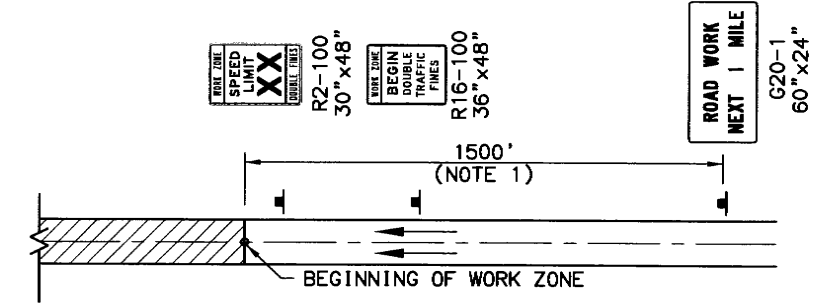
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LAYOUT	LAYOUT1

REVISONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	J2	J10

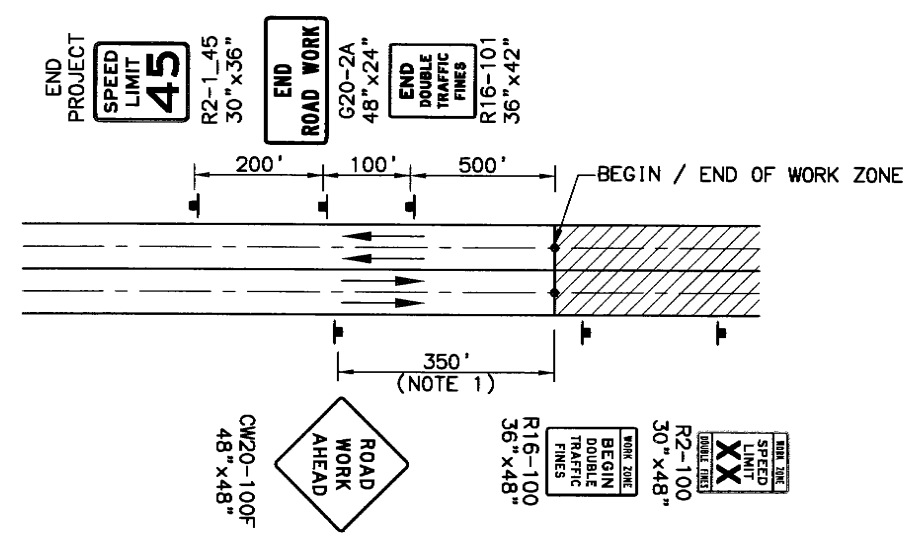
GENERAL PERMANENT CONSTRUCTION SIGN NOTES:
1. LOCATION TO BE DETERMINED BY THE PROJECT ENGINEER.



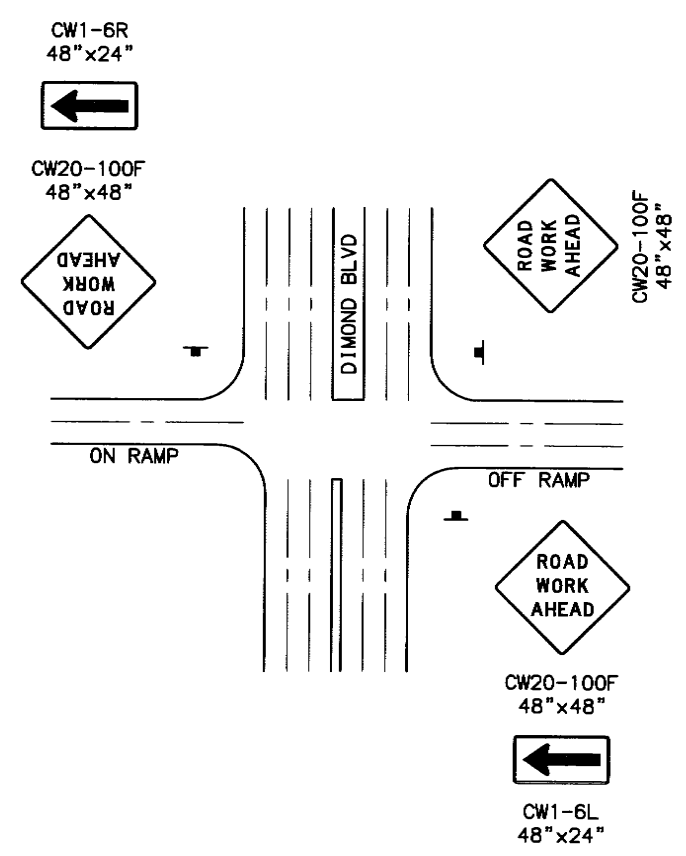
A TYPICAL LAYOUT
END OF WORK ZONE ON SEWARD HWY
PERMANENT CONSTRUCTION SIGNS



B TYPICAL LAYOUT
BEGINNING OF WORK ZONE ON SEWARD HWY
PERMANENT CONSTRUCTION SIGNS



C TYPICAL LAYOUT
BEGIN / END OF WORK ZONE ON OLD SEWARD HWY
PERMANENT CONSTRUCTION SIGNS



D TYPICAL LAYOUT
BEGIN / END OF WORK ZONE ON DIMOND BLVD
PERMANENT CONSTRUCTION SIGNS

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

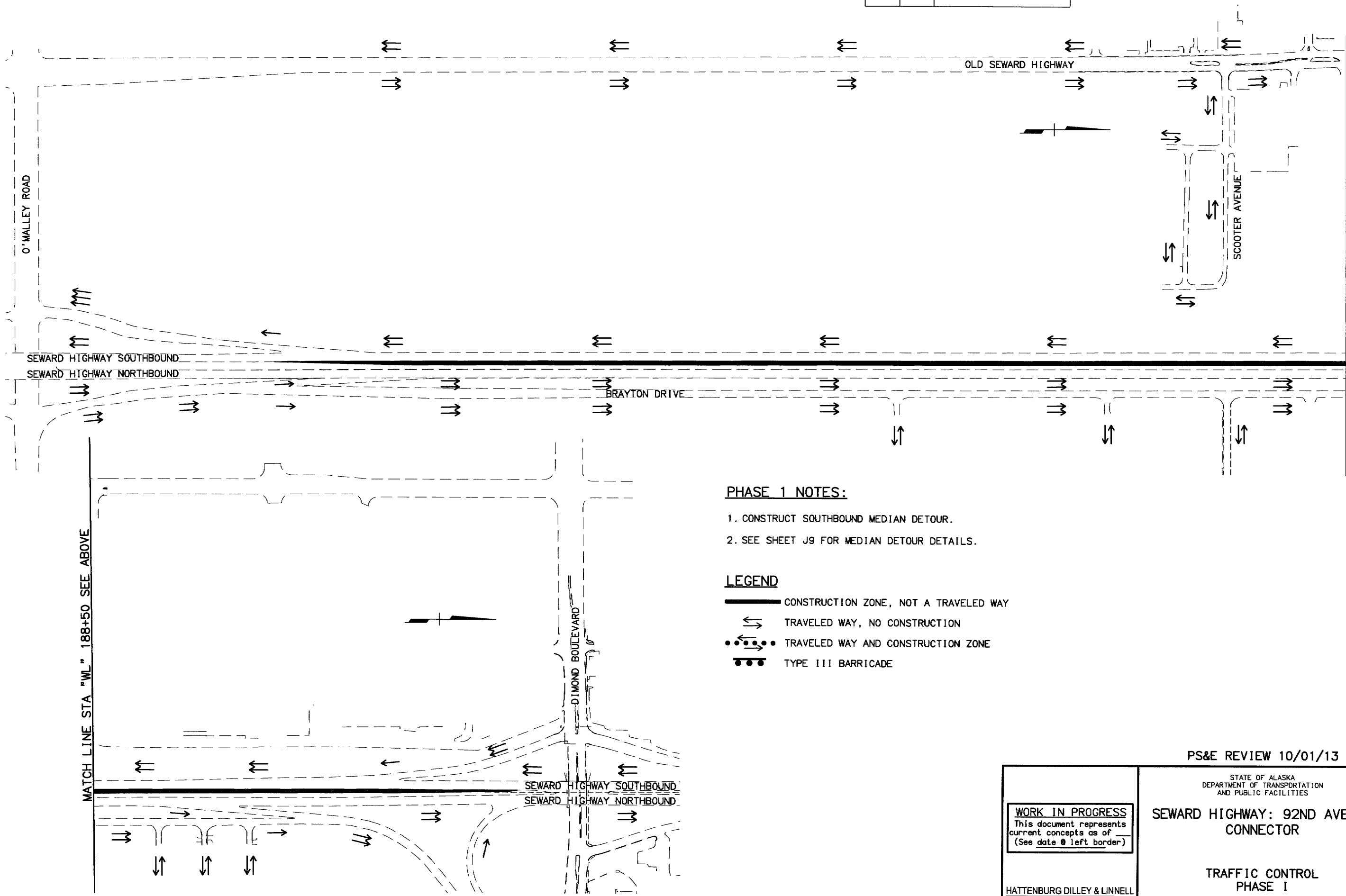
TRAFFIC CONTROL
PERMANENT CONSTRUCTION
SIGN DETAILS

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REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	J3	J10



PHASE 1 NOTES:

1. CONSTRUCT SOUTHBOUND MEDIAN DETOUR.
2. SEE SHEET J9 FOR MEDIAN DETOUR DETAILS.

LEGEND

- CONSTRUCTION ZONE, NOT A TRAVELED WAY
- ↔ TRAVELED WAY, NO CONSTRUCTION
- TRAVELED WAY AND CONSTRUCTION ZONE
- TYPE III BARRICADE

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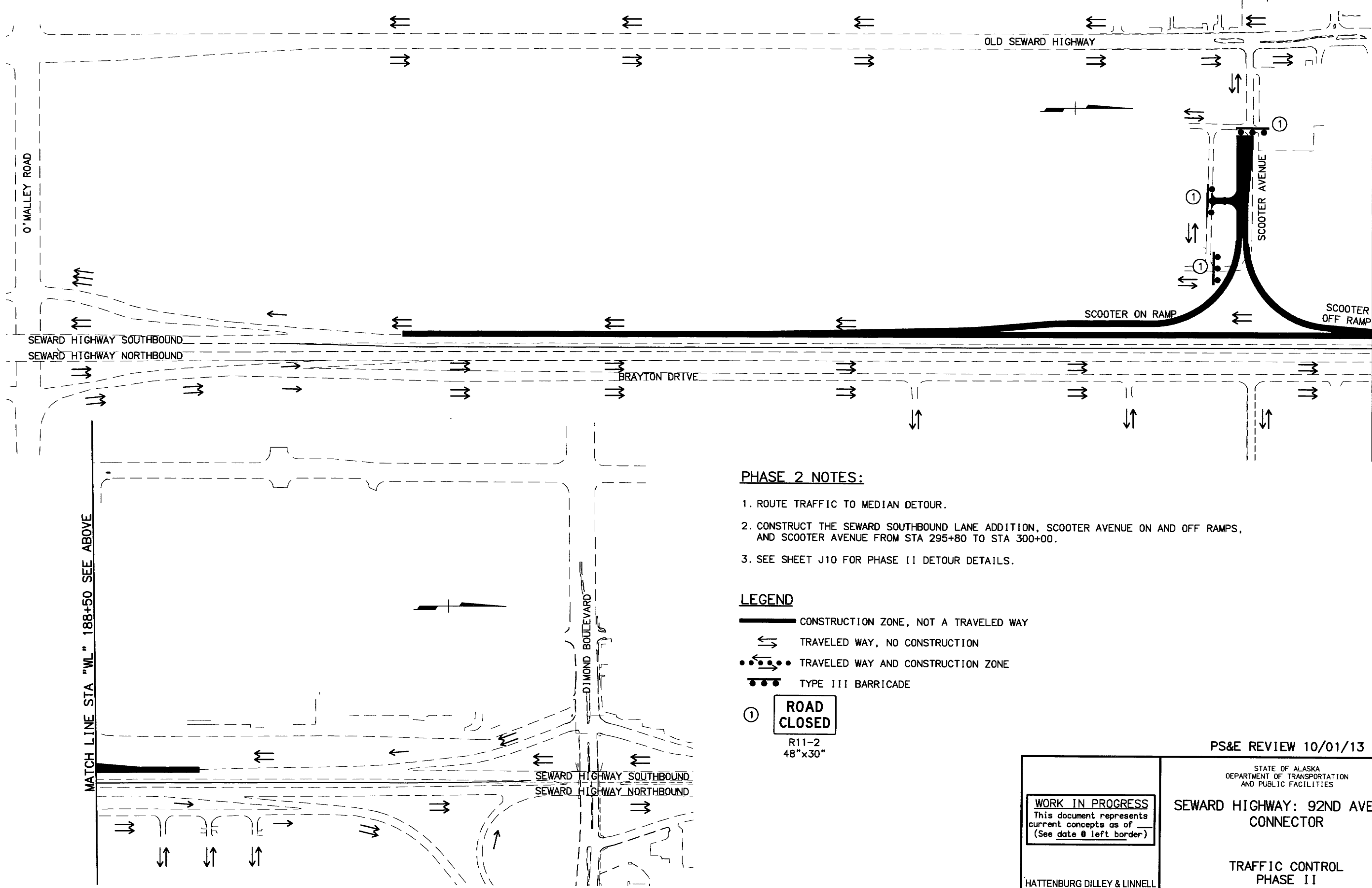
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CONNECTOR**

TRAFFIC CONTROL
PHASE I

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NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	J4	J10



PHASE 2 NOTES:

1. ROUTE TRAFFIC TO MEDIAN DETOUR.
2. CONSTRUCT THE SEWARD SOUTHBOUND LANE ADDITION, SCOOTER AVENUE ON AND OFF RAMP, AND SCOOTER AVENUE FROM STA 295+80 TO STA 300+00.
3. SEE SHEET J10 FOR PHASE II DETOUR DETAILS.

LEGEND

- CONSTRUCTION ZONE, NOT A TRAVELED WAY
- TRAVELED WAY, NO CONSTRUCTION
- TRAVELED WAY AND CONSTRUCTION ZONE
- TYPE III BARRICADE
- ① ROAD CLOSED
R11-2
48"x30"

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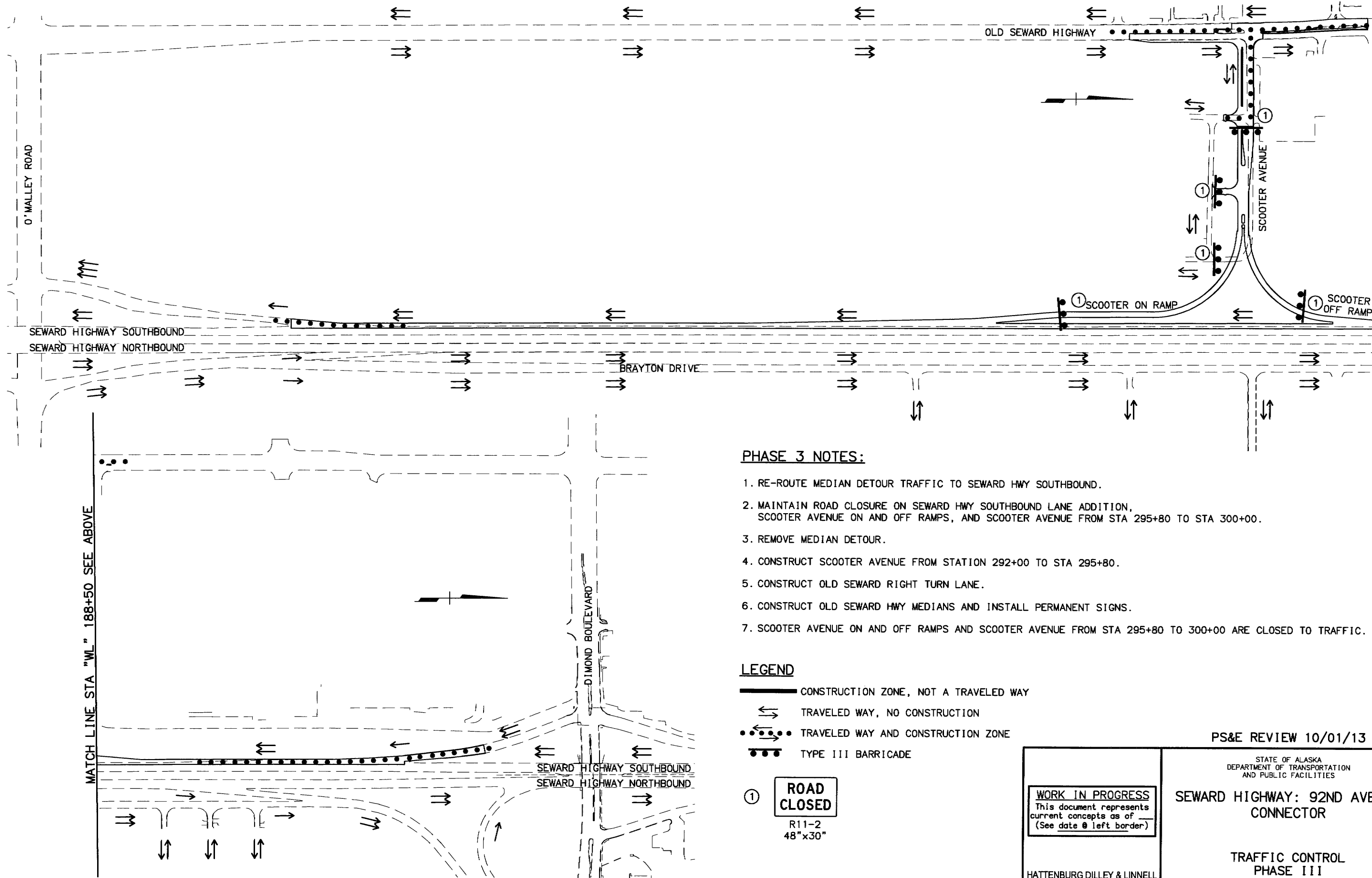
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AND PUBLIC FACILITIES
**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

TRAFFIC CONTROL
PHASE II

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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	J5	J10



PHASE 3 NOTES:

1. RE-ROUTE MEDIAN DETOUR TRAFFIC TO SEWARD HWY SOUTHBOUND.
2. MAINTAIN ROAD CLOSURE ON SEWARD HWY SOUTHBOUND LANE ADDITION, SCOOTER AVENUE ON AND OFF RAMPS, AND SCOOTER AVENUE FROM STA 295+80 TO STA 300+00.
3. REMOVE MEDIAN DETOUR.
4. CONSTRUCT SCOOTER AVENUE FROM STATION 292+00 TO STA 295+80.
5. CONSTRUCT OLD SEWARD RIGHT TURN LANE.
6. CONSTRUCT OLD SEWARD HWY MEDIANS AND INSTALL PERMANENT SIGNS.
7. SCOOTER AVENUE ON AND OFF RAMPS AND SCOOTER AVENUE FROM STA 295+80 TO 300+00 ARE CLOSED TO TRAFFIC.

LEGEND

- CONSTRUCTION ZONE, NOT A TRAVELED WAY
- TRAVELED WAY, NO CONSTRUCTION
- TRAVELED WAY AND CONSTRUCTION ZONE
- TYPE III BARRICADE

① **ROAD CLOSED**
R11-2
48"x30"

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SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

**TRAFFIC CONTROL
PHASE III**

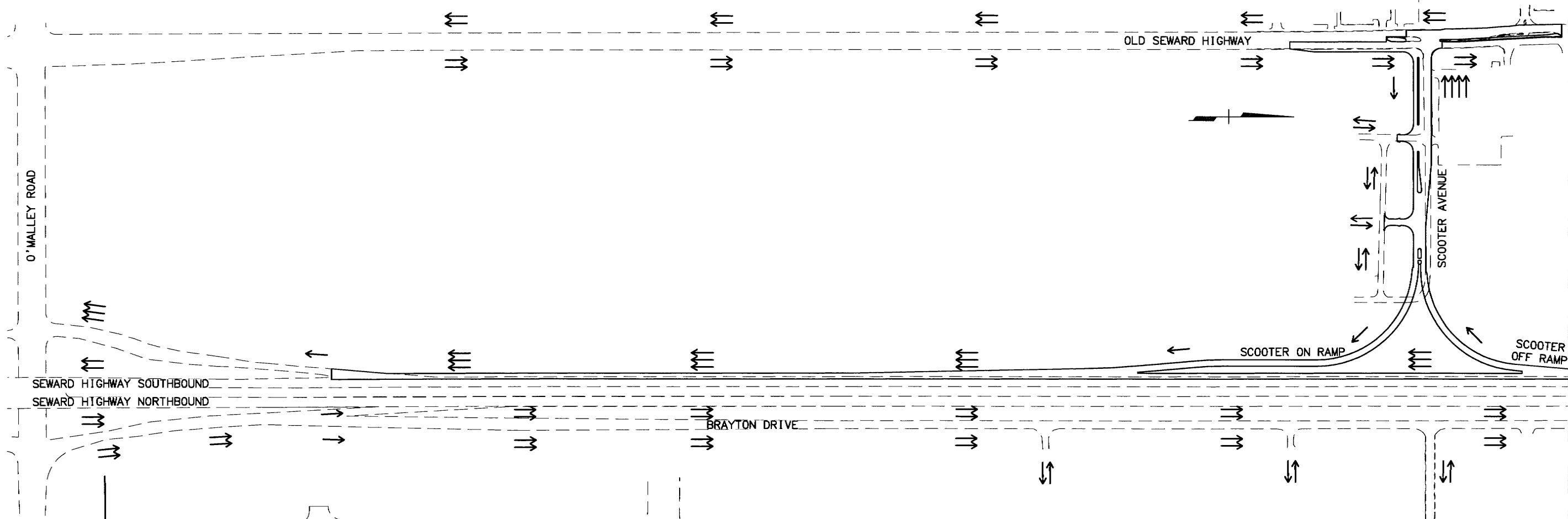
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STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	J6	J10



PHASE 4 NOTES:

1. OPEN SEWARD HWY SOUTHBOUND LANE ADDITION, SCOOTER AVENUE ON AND OFF RAMP AND SCOOTER AVENUE FROM STA 295+80 TO STA 300+00.

LEGEND

- CONSTRUCTION ZONE, NOT A TRAVELED WAY
- TRAVELED WAY, NO CONSTRUCTION
- TRAVELED WAY AND CONSTRUCTION ZONE
- TYPE III BARRICADE

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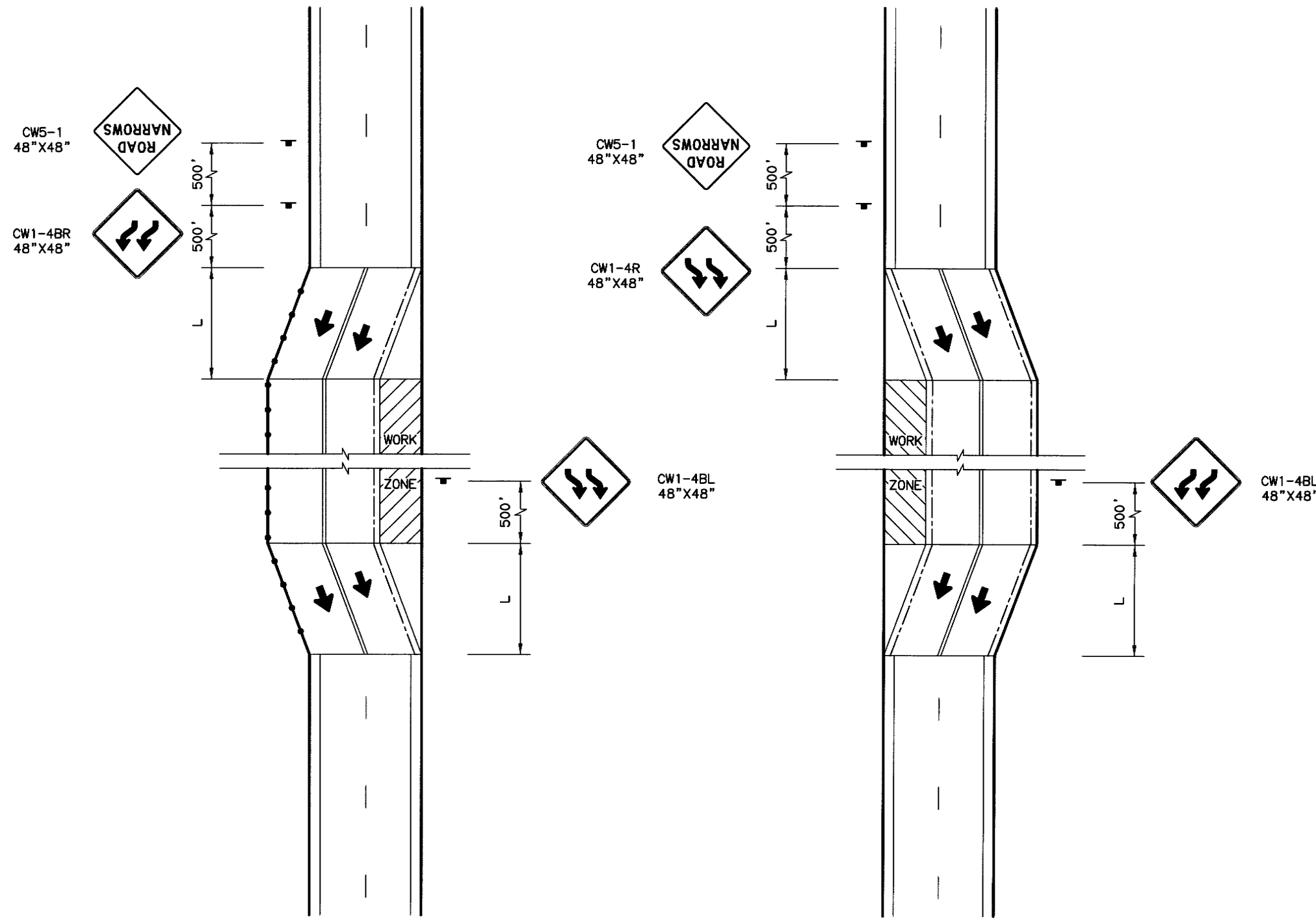
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

TRAFFIC CONTROL
PHASE IV

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NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	J7	J10



TAPER LENGTH FORMULA:
 $L = S \times W$ FOR SPEEDS OF 45 MPH OR MORE
 $L = \frac{WS^2}{60}$ FOR SPEEDS OF LESS THAN 45 MPH

WHERE:
L = TAPER LENGTH
S = POSTED SPEED LIMIT IN MPH
W = WIDTH OF OFFSET

KEY

- • • CONES/ CANDLES
- CONSTRUCTION SIGN
- INTERIM PAVEMENT MARKINGS
- PORTABLE CONCRETE "F" SHAPE BARRIER

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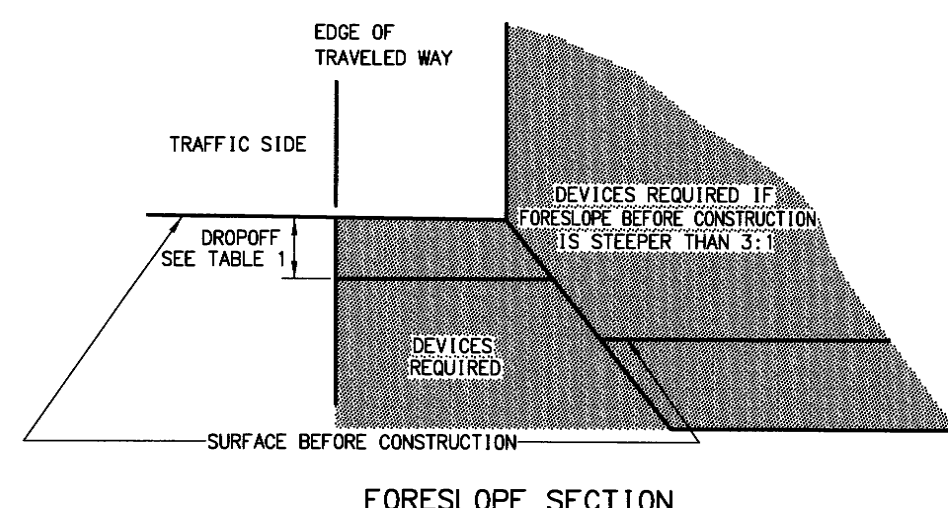
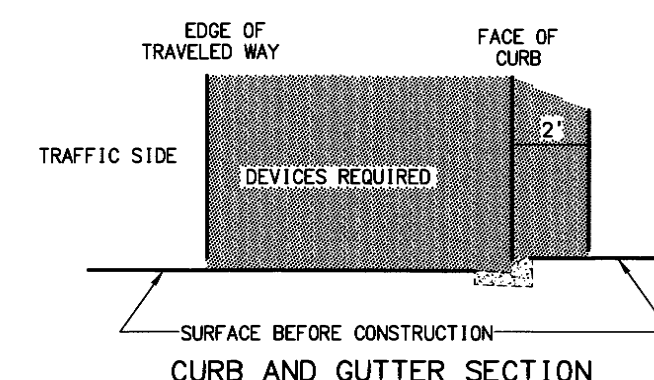
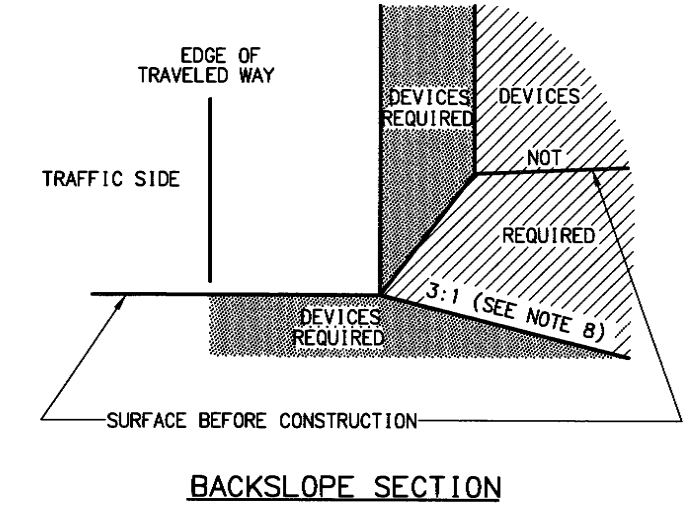
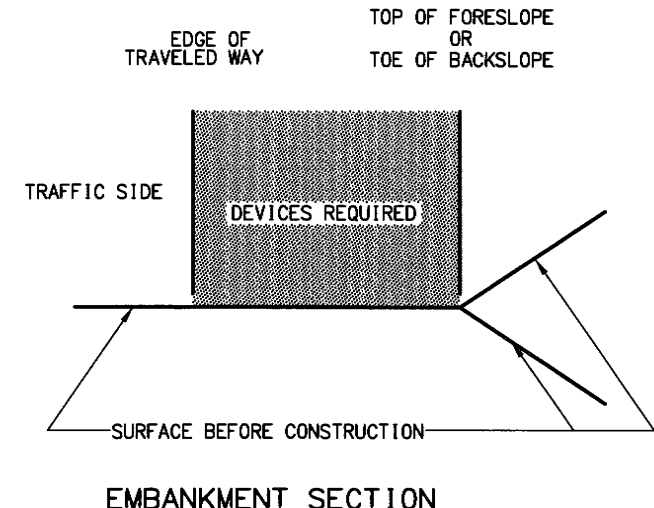
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

TRAFFIC CONTROL
CONSTRUCTION DETOUR
TAPER PHASE I & II

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LEGEND

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

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

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

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NO.	DATE	DESCRIPTION					
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- NOTES:**
- TRAFFIC CONTROL DEVICES REQUIRED BY THE GUIDELINES ON THIS SHEET ARE INTENDED FOR CONDITIONS WHICH WILL BE IN PLACE LONGER THAN ONE CONTINUOUS WORK SHIFT. AN APPROVED TRAFFIC CONTROL PLAN IS REQUIRED PRIOR TO BEGINNING WORK.
 - THE GROUND CROSS SECTION AT A LOCATION BEFORE CONSTRUCTION DETERMINES WHETHER TRAFFIC CONTROL DEVICES ARE NEEDED AT THE SAME LOCATION DURING CONSTRUCTION.
 - GUARDRAIL EXISTING AT A LOCATION BEFORE CONSTRUCTION SHALL REMAIN IN PLACE DURING CONSTRUCTION OR APPROVED ALTERNATE DEVICES INSTALLED.
 - INSTALL TRAFFIC CONTROL DEVICES BETWEEN THE EDGE OF TRAVELED WAY AND THE WORK AREA ON ANY ROADWAY OPENED TO TRAFFIC WHEN REQUIRED BY THIS DRAWING.
 - EXISTING ROADWAY ALIGNMENTS
INSTALL TRAFFIC CONTROL DEVICES WHEN WORK OCCURS IN THE DEVICES REQUIRED AREAS SHOWN ON THIS DRAWING.
 - DETOURS, TEMPORARY ROADWAYS, OR NEW ROADWAYS NOT YET COMPLETE
INSTALL TRAFFIC CONTROL DEVICES WHEN ANY OF THE FOLLOWING CONDITIONS EXIST:
 - THE HORIZONTAL OR VERTICAL CURVATURE IS MORE SEVERE THAN BEFORE CONSTRUCTION BEGAN.
 - THE ROADWAY OR SHOULDER WIDTH IS LESS THAN BEFORE CONSTRUCTION BEGAN.
 - THE BACKSLOPE OR FORESLOPE IS STEEPER THAN BEFORE CONSTRUCTION BEGAN.
 - THE HEIGHT OF THE FORESLOPE IS GREATER THAN BEFORE CONSTRUCTION BEGAN.
 - DROPOFFS:
INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL AND TABLE 1.
 - ON ANY NEWLY CONSTRUCTED SLOPE STEEPER THAN 4:1 TO 3:1 PROVIDE A TEN FOOT FLAT RECOVERY AREA AT THE TOE OF SLOPE OR INSTALL TRAFFIC CONTROL DEVICES IN ACCORDANCE WITH THE FORESLOPE SECTION DETAIL.
 - TRAFFIC CONTROL DEVICE REQUIREMENTS:
 - ON ROADWAYS WITH A SPEED LIMIT GREATER THAN 40 MILES PER HOUR OR AVERAGE DAILY TRAFFIC VOLUME GREATER THAN 4000 VEHICLES PER DAY INSTALL TEMPORARY PORTABLE CONCRETE BARRIER OR TEMPORARY GUARDRAIL. ON MULTI-LANE ROADWAYS CLOSE THE LANE CLOSEST TO THE WORK AREA AND INSTALL DRUMS.
TERMINATE RUNS OF TEMPORARY PORTABLE CONCRETE BARRIER USING ONE OF THE FOLLOWING THREE METHODS:
 - TEMPORARY CRASH ATTENUATOR.
 - RIGID TO SEMI-RIGID GUARDRAIL TRANSITION WITH SLOTTED RAIL TERMINAL OR OTHER APPROVED CRASHWORTHY END TREATMENT.
 - FLARE THE ENDS OF THE TEMPORARY BARRIER AWAY FROM THE ROADWAY AT A RATE OF 15:1 ON A TRANSVERSE SLOPE OF 10:1 OR FLATTER TO THE OUTSIDE EDGE OF THE CLEAR ZONE AND INSTALL A SLOPING END TREATMENT, PER STANDARD DRAWING G-46.10.TERMINATE RUNS OF TEMPORARY GUARDRAIL USING EITHER OF THE FOLLOWING TWO METHODS:
 - SLOTTED RAIL TERMINAL OR OTHER APPROVED CRASHWORTHY END TREATMENT.
 - FLARE THE ENDS OF THE TEMPORARY GUARDRAIL AWAY FROM THE ROADWAY AT A RATE OF 15:1 ON A TRANSVERSE SLOPE OF 10:1 OR FLATTER TO THE OUTSIDE EDGE OF THE CLEAR ZONE.
 - ON ALL OTHER ROADWAYS INSTALL TYPE II BARRICADES, DRUMS OR DELINEATORS WHEN DEVICES ARE REQUIRED. SPACE THE DEVICES IN ACCORDANCE WITH THE REQUIREMENTS FOR SPACING TYPE II BARRICADES AND DRUMS SET FORTH IN THE ALASKA TRAFFIC MANUAL.
 - DO NOT CONSTRUCT VERTICAL DROPOFFS GREATER THAN 1.5" WITHIN THE TRAFFIC LANE OR ACTIVE WHEEL TRACK. PROVIDE 2' OF SHY DISTANCE FROM EDGE OF ALL TRAFFIC CONTROL DEVICES TO THE EDGE OF THE TRAVELED WAY.

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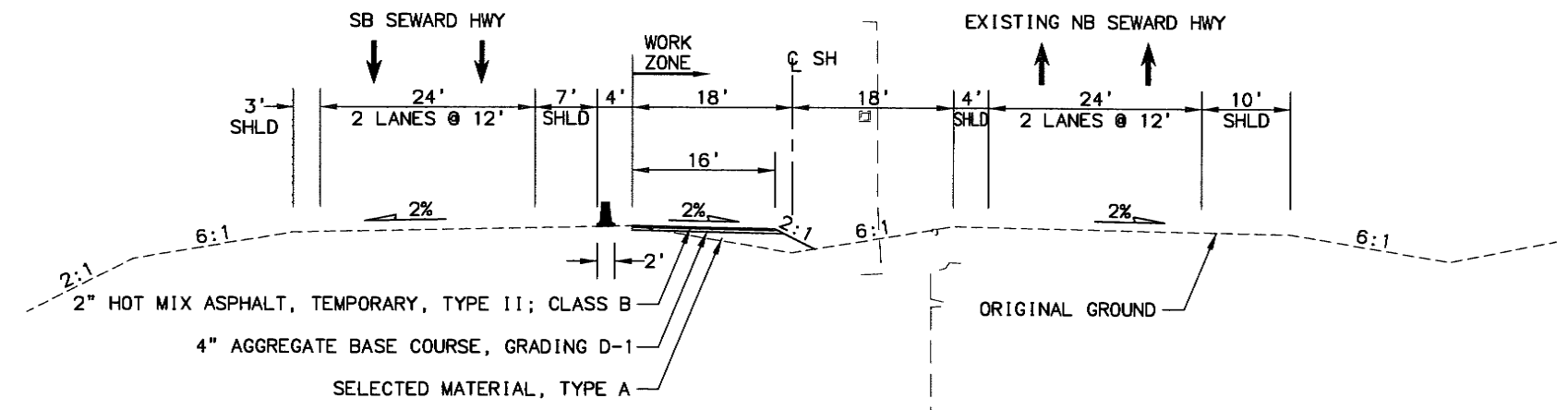
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

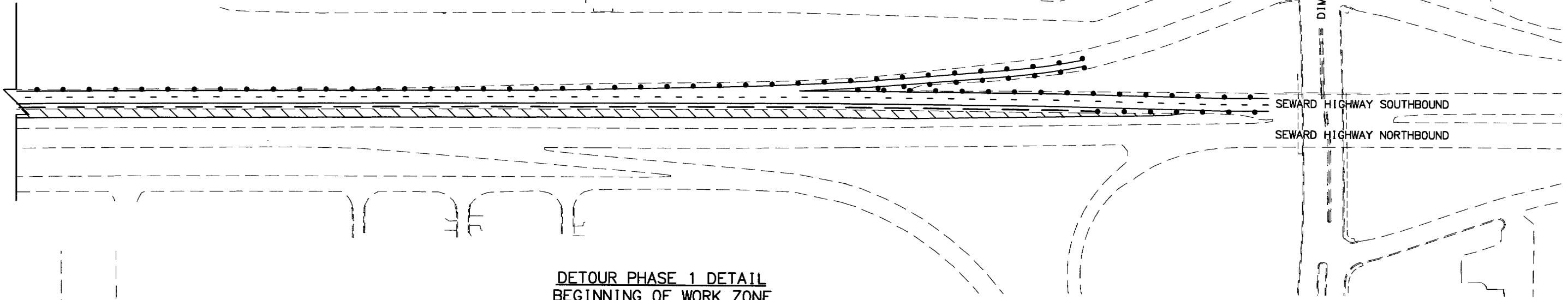
**TRAFFIC CONTROL DEVICES
FOR ROADSIDES**

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PHASE I MEDIAN DETOUR
TYPICAL SECTION



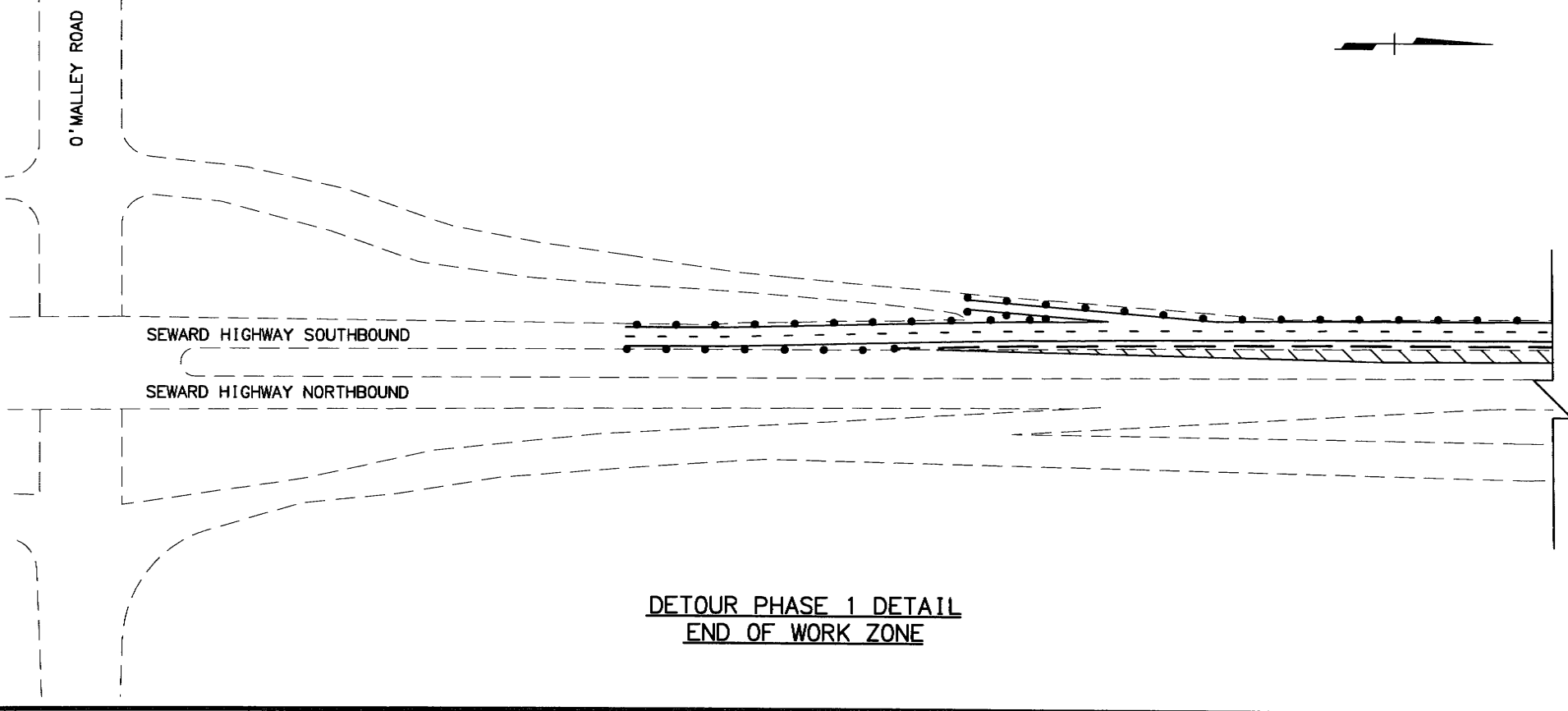
DETOUR PHASE 1 DETAIL
BEGINNING OF WORK ZONE

PHASE 1 NOTES:

1. SEE SHEET J7 FOR PHASE I CONSTRUCTION DETOUR TAPER DETAILS.

KEY

- • • CONES/ OR DRUMS
- - - INTERIM PAVEMENT MARKINGS
- - - PORTABLE CONCRETE "F" SHAPE BARRIER
- ▨ WORK ZONE



DETOUR PHASE 1 DETAIL
END OF WORK ZONE

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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

TRAFFIC CONTROL
DETOUR PHASE I

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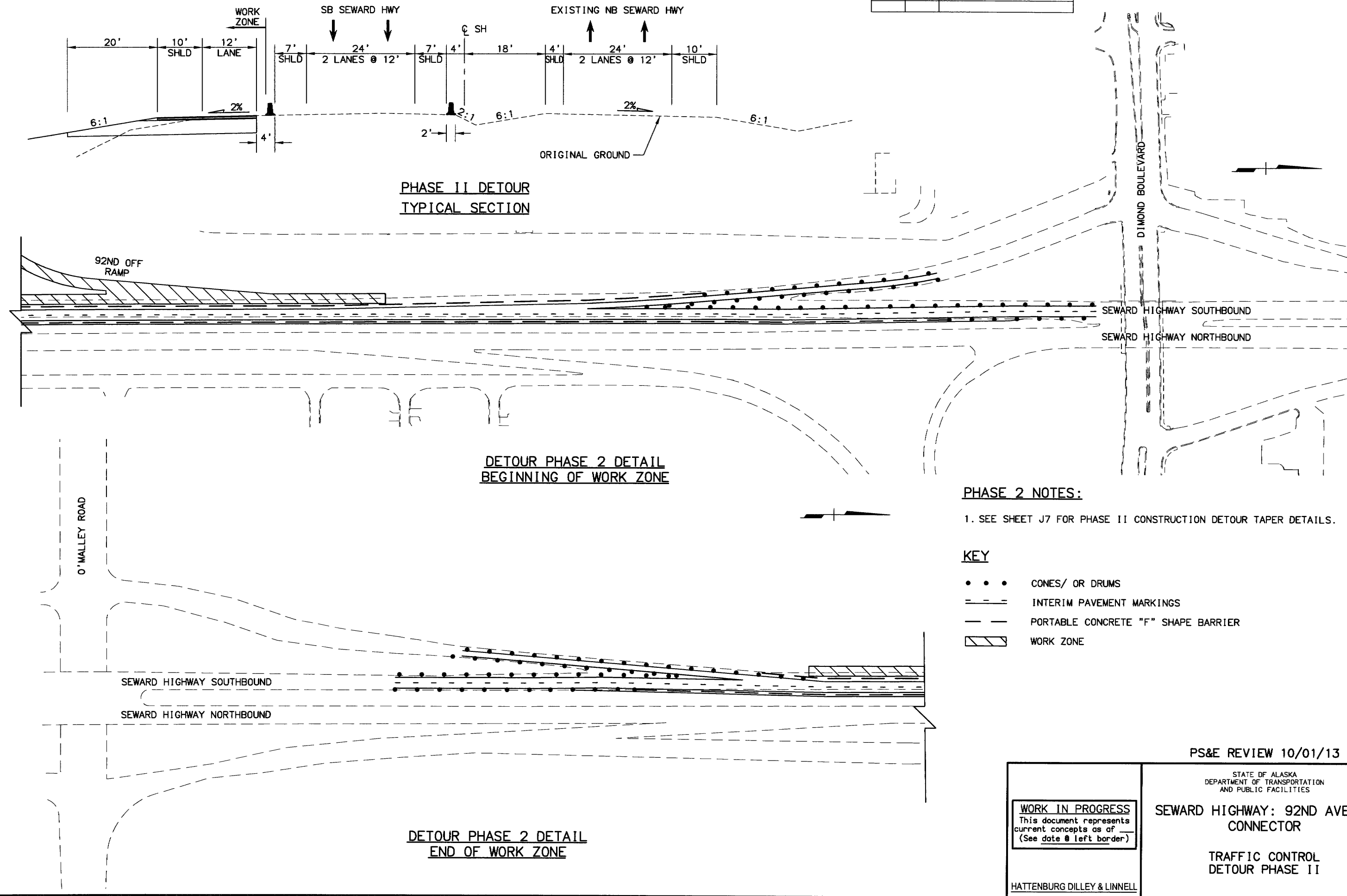
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NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	J10	J10



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SEWARD HIGHWAY: 92ND AVENUE
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TRAFFIC CONTROL
DETOUR PHASE II

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SCALE
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CHECKED BY C.B.
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REFERENCES
X-Border-04a11
N/A

SYMBOL LEGEND

EXISTING	PROPOSED	
		LOAD CENTER
		TRAFFIC RECORDER CABINET
		TYPE II JUNCTION BOX
		LOOP DETECTOR
		CONDUIT

ABBREVIATIONS

SIG - SERVICE TO CONTROLLER
INTX - INTERSECTION
LTG - LIGHTING
PRE 2 - PREEMPTION #
PRE CON 2 - PREEMPTION CONTROLLER #
LC - LOAD CENTER
TC - TRAFFIC CONTROLLER
P1 - TRAFFIC SIGNAL POLE #
PEC - PHOTOELECTRIC CELL
YAGI - DIRECTIONAL ANTENNA
OMNI - OMNI DIRECTIONAL ANTENNA
HEAD - VEHICULAR SIGNAL HEAD
PED B 28 - PEDESTRIAN PUSH BUTTON #
PEDI - PEDESTRIAN SIGNAL HEAD
RMC - RIGID METAL CONDUIT
PE - POLYETHYLENE CONDUIT
LFNC - LIQUIDTIGHT FLEXIBLE
NONMETALLIC CONDUIT
INTX L - INTERSECTION LIGHTING
NB - NORTH BOUND
EB - EAST BOUND
SB - SOUTH BOUND
WB - WEST BOUND

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
12/19/2012	CENTRAL REGION DETAIL		ALASKA	59770	2014	K1	K9

LABELS

ALL CABLES SHALL BE LABELED AT BOTH ENDS AND AT EVERY JUNCTION BOX THROUGH WHICH THE CABLES PASS, PER SPECIFICATION SECTION 660-3.05.

ALL WIRE PAIRS SHALL BE LABELED AT THE TERMINAL BLOCK AND AT ANY LOOSE ENDS.

THE FOLLOWING CONVENTIONS SHALL APPLY TO DESIGNATING AND LABELING CABLES AND WIRE PAIRS:

LANES: TRAFFIC LANES AND THEIR RESPECTIVE LOOPS AND SENSORS SHALL BE LABELED FROM THE OUTSIDE EDGE OF THE ROAD TOWARD THE CENTER AS FOLLOWS:

A | B | C | D | D | C | B | A

TERMINAL BLOCKS: WIRES FROM SENSORS PLACED IN LANES WHICH ARE CLOSEST TO THE CONTROL BOX SHALL BE PLACED AT THE LEFT OR AT THE TOP OF THE TERMINAL BLOCK, DEPENDING ON ORIENTATION.

WIRES FOR INDUCTIVE LOOPS, SENSORS AND RESERVES ARE LABELED AS FOLLOWS:

PNDLC

WHERE:

- P IS THE PREFIX:
V TRAFFIC VOLUME LOOP
H VEHICLE CLASSIFICATION / SPEED LOOP
GL AUTOMATIC VEHICLE CLASSIFICATION (AVC)
SENSOR
GA AUTOMATIC VEHICLE CLASSIFICATION PIEZO
- N NUMBER SUFFIX FOR MULTIPLE LOOPS IN THE SAME LANE
- D DIRECTION (N, S, E, W, NE, SE, SW, NW)
- L IS THE PREFIX FOR ROAD DESIGNATION
L LANE*
- C IS THE SUFFIX FOR LANE DESIGNATION (A, B, C, D)

GENERAL NOTES

1. INSTALLATION OF EQUIPMENT AND MATERIALS SHALL CONFORM TO APPLICABLE REQUIREMENTS OF THE CURRENT NATIONAL ELECTRICAL CODE, ALASKA DOT&PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, AND LOCAL AMENDMENTS.
2. EVERY EFFORT HAS BEEN MADE TO MAKE THE INFORMATION CONTAINED IN THESE DOCUMENTS COMPLETE AND ACCURATE, HOWEVER, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS AND DIMENSIONS.
3. PVC FROM JUNCTION BOXES TO TRAFFIC LOOPS IS NOT ALLOWED. USE ONLY RMC OR IMC.
4. ALL PVC CONDUIT AND FITTINGS SHALL BE 1 INCH SCHEDULE 80.
5. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS.
6. INSTALL LOAD CENTER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.

REFERENCE SPECIFICATIONS

ALL WIRING IN THIS SECTION SHALL BE CONSTRUCTED PER SPECIFICATION SECTION 660 SIGNALS AND LIGHTING, EXCEPT WHERE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS. IN PARTICULAR, ALL CONSTRUCTION SHALL CONFORM TO SPECIFICATION SECTIONS 660-3.03 CONDUIT, 660-3.04 JUNCTION BOXES, 660-3.05 WIRING, 660-3.06 BONDING AND GROUNDING, AND 660-3.01.7 FIELD TESTS, EXCEPT AS MODIFIED BY SECTION 669 AUTOMATED TRAFFIC RECORDERS.

INDUCTIVE LOOPS

ALL INDUCTIVE LOOPS SHALL BE WOUND IN THE SAME DIRECTION WITH THE STARTING LEAD MARKED "S" PER SECTION 660-3.05.13.

LEAD-IN WIRES FOR EACH LOOP SHALL BE IN SEPARATE CONDUITS TO THE FIRST JUNCTION BOX. THESE CONDUITS SHALL BE SEPARATED FROM OTHER LOOPS BY A MINIMUM OF 12 INCHES.

INDUCTIVE LOOPS SHALL BE INSTALLED IMMEDIATELY PRIOR TO PAVING THIS SECTION OF ROADWAY. FINAL LIFT ASPHALT PAVEMENT SHALL BE SMOOTH OVER ALL INDUCTIVE LOOPS AND WITHOUT TRANSVERSE SEAMS, JOINTS, OR ROUGHNESS WITHIN 50 FEET OF THE LOOPS.

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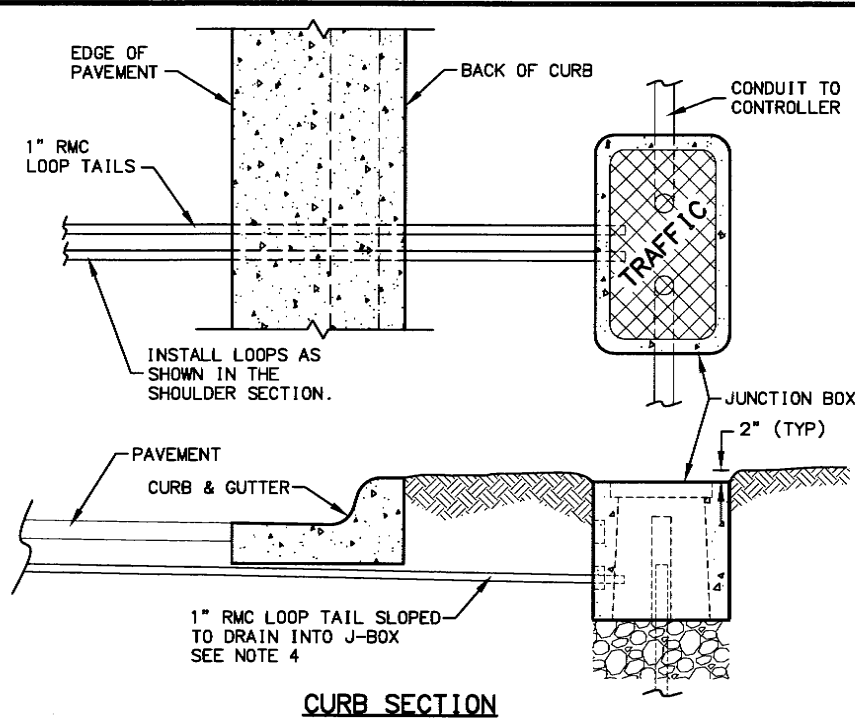
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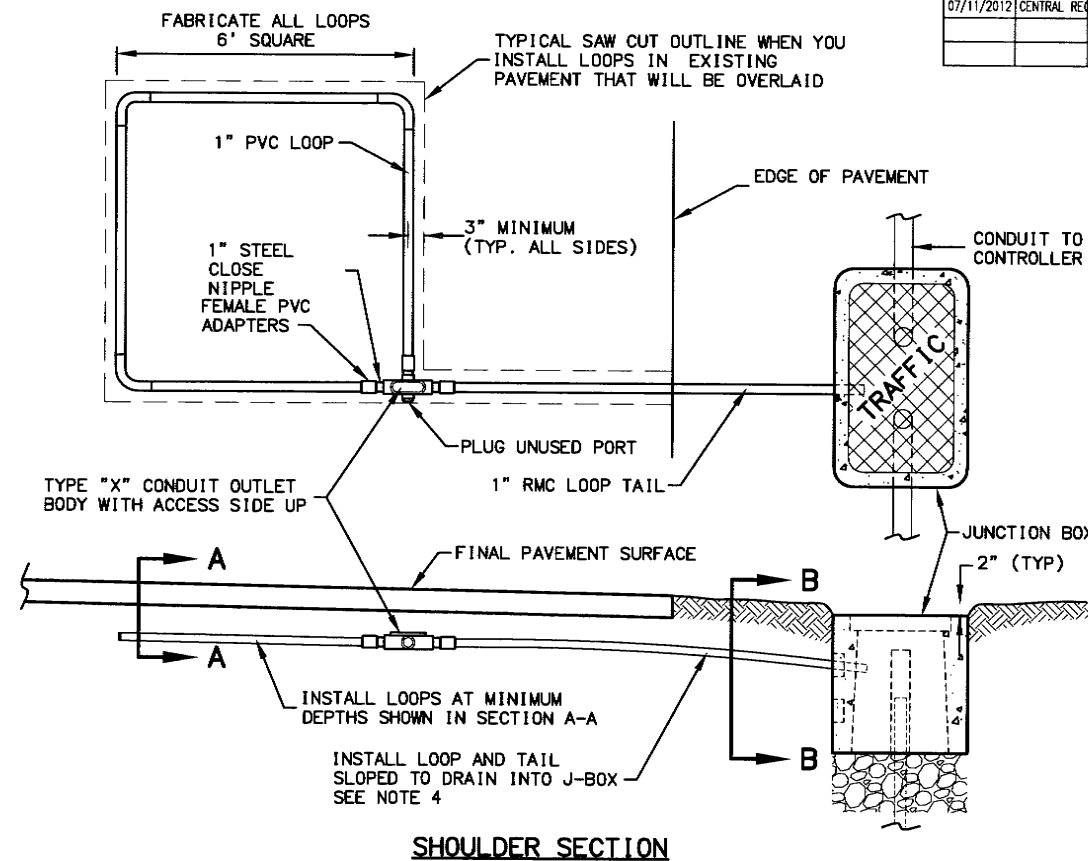
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ATR LEGEND AND NOTES

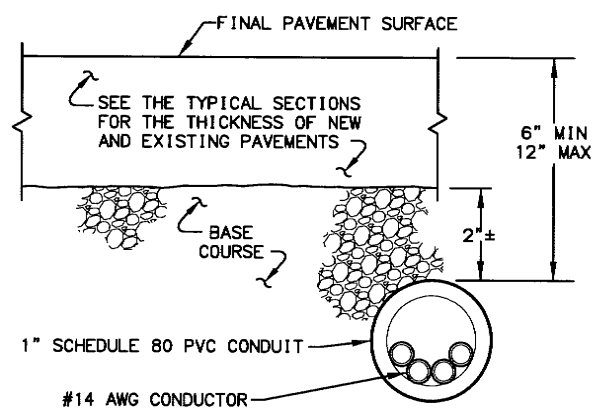
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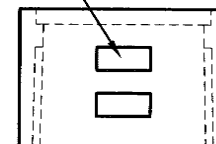


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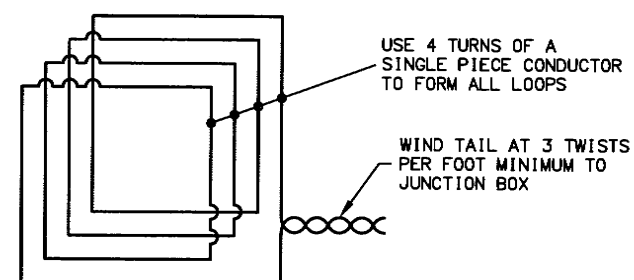


SECTION A-A

2 KNOCKOUTS CENTERED ON ONE SIDE 1 1/2" DEEP X 3" HIGH X 7" WIDE FOR LOOP DETECTOR INSTALLATION



SECTION B-B



6'X6' LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION

REVISIONS		
NO.	DATE	DESCRIPTION
07/11/2012	CENTRAL REGION DETAIL - REPLACES STD. DWG. T-32.10	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	K2	K9

NOTES

1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN ONE INCH SCHEDULE 80 PVC CONDUIT. BUILD ALL LOOPS 6.0 FEET SQUARE, SOLVENT WELDING ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO IMSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS BEFORE OVERLAYING THE EXISTING PAVEMENT OR PAVING THE NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS. IF YOU CAN NOT INSTALL THE LOOP TO DRAIN INTO THE J-BOX, DRILL FIVE 1/4" WEEP HOLES ON 1 FOOT CENTERS IN THE UNDERSIDE OF THE CONDUIT AT THE LOW SPOT.
5. YOU MAY INSTALL A LOOP TAIL IMMEDIATELY ADJACENT TO A LOOP AND OTHER LOOP TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY BEFORE SEALING THE LOOPS UNDER THE FINAL LIFT OF ASPHALT. PROVIDE THE ENGINEER A WRITTEN RECORD OF FIELD TESTING INCLUDING: CONTINUITY, INSULATION RESISTANCE AND INDUCTANCE TESTS AS REQUIRED IN SECTION 660-3.01(7) OF THE STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.

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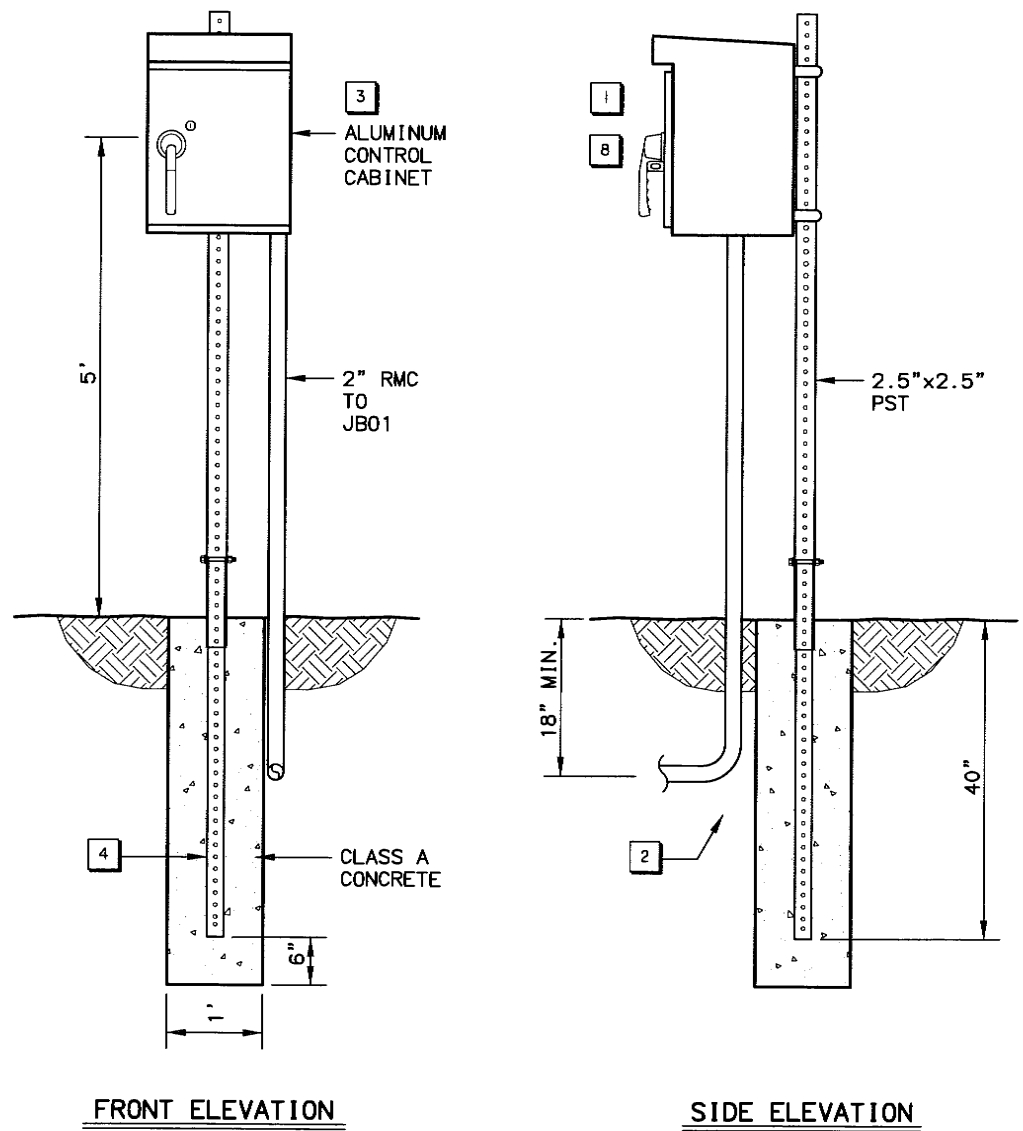
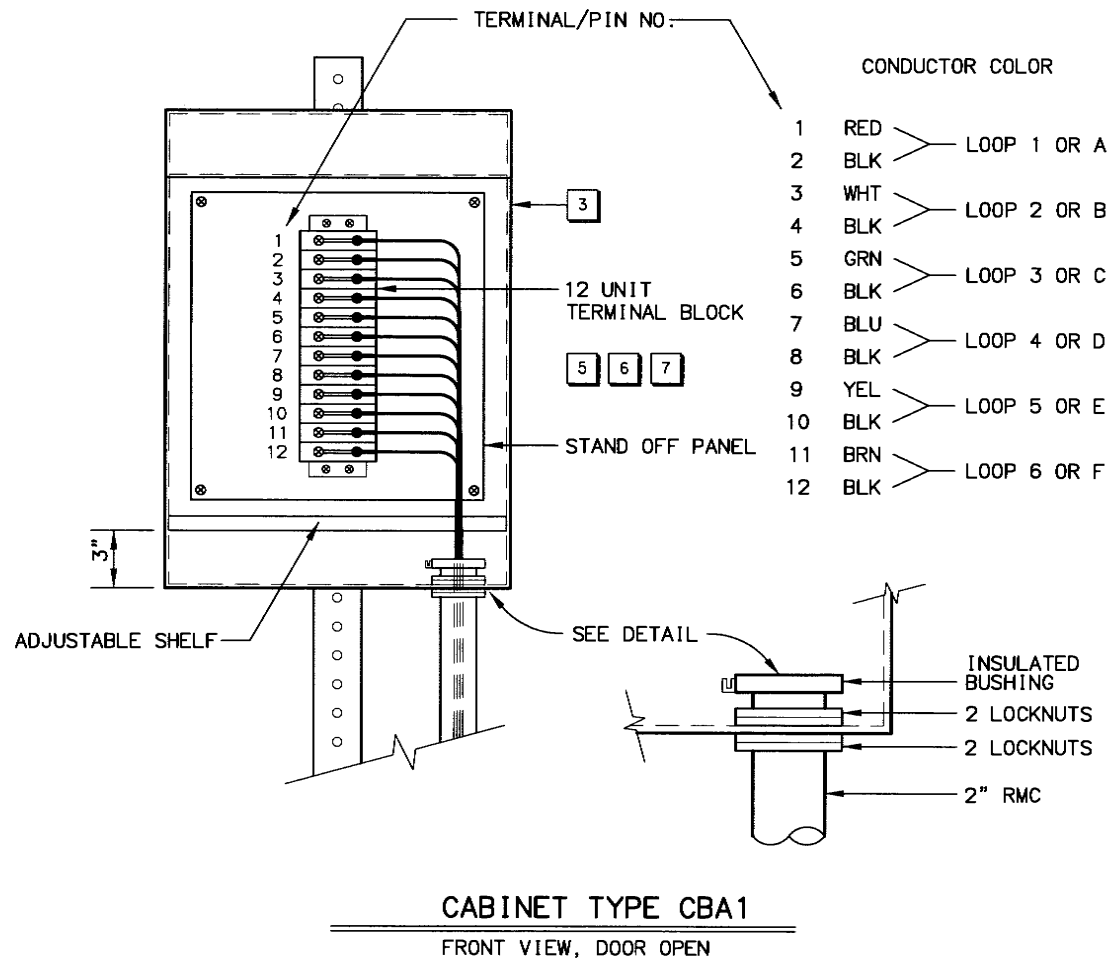
LOOP DETECTOR

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CABINET TYPE CBA1 DETAIL

NOTES

- 1 CONTROLLER CABINET DOOR TO OPEN AWAY FROM THE ROADWAY.
- 2 INSTALL FOUNDATION IN SELECT MATERIAL, TYPE A. THE CONTRACTOR SHALL EXCAVATE AND BACKFILL WITH GRAVEL 2 FEET BELOW AND SURROUNDING THE FOUNDATION.
- 3 CABINET TO BE EQUAL TO OR BETTER THAN HOFFMAN SINGLE DOOR ALUMINUM ENCLOSURE: CATALOG NUMBER 131JF (20 IN x 17 IN x 16 IN) WITH NEMA 3R RATING, CORBIN #2 LOCK, EQUIPMENT MOUNTING PANEL AND ADJUSTING SHELF.
- 4 SLEEVE TYPE CONCRETE FOUNDATION. SEE STANDARD DRAWING S-30.03, PERFORATED STEEL TUBE (PST) POST.
- 5 TERMINATE ALL CONDUCTORS TO TERMINAL BLOCK. TERMINATE ALL CONDUCTORS WITH CRIMPED AND SOLDERED SPADE TYPE TERMINALS.
- 6 TY-RAPS TO PROVIDE STRAIN RELIEF FOR INCOMING CONDUCTORS.
- 7 LABEL SENSOR LEADS: USE THE INDUCTIVE LOOP DESIGNATION FOR IDENTIFICATION, SUCH AS "VISLA"

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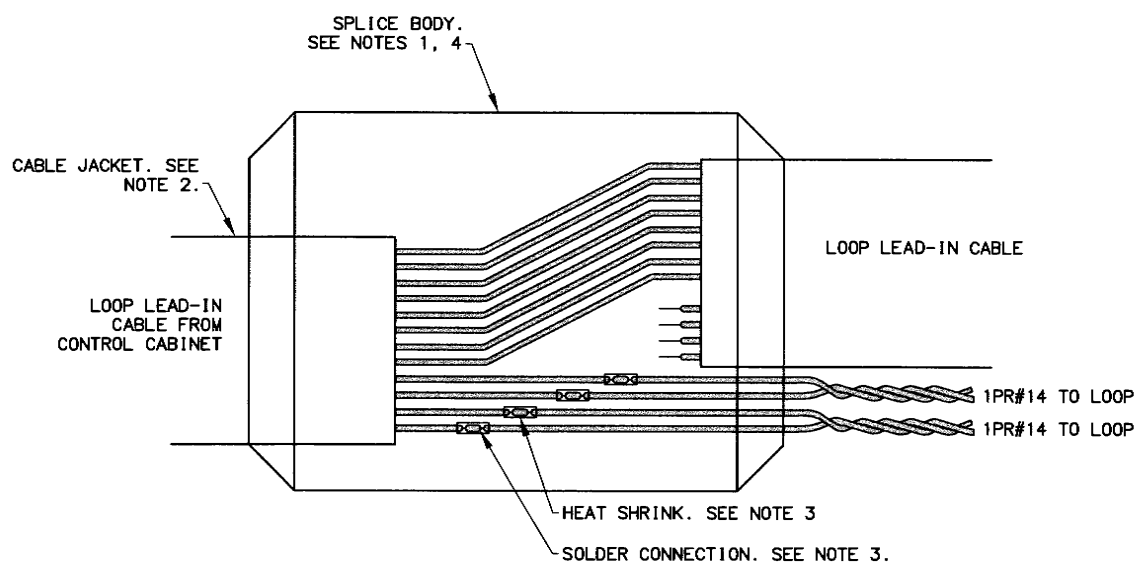
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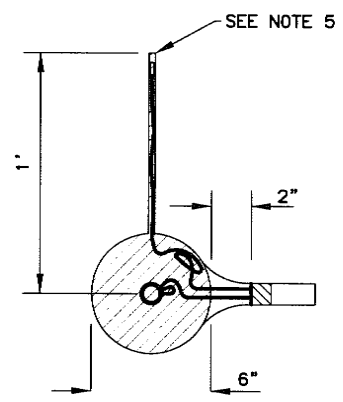
STATE OF ALASKA
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AND PUBLIC FACILITIES
**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**
CBA1 CABINET

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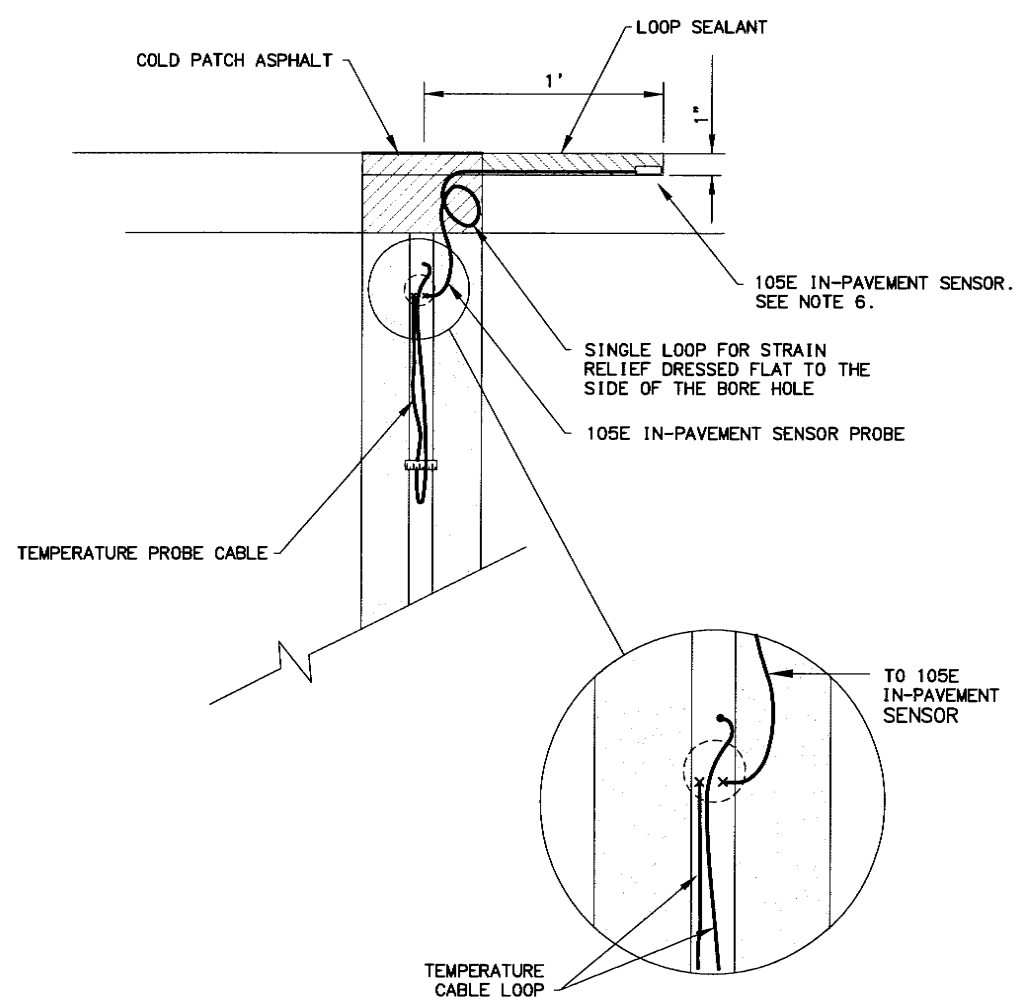
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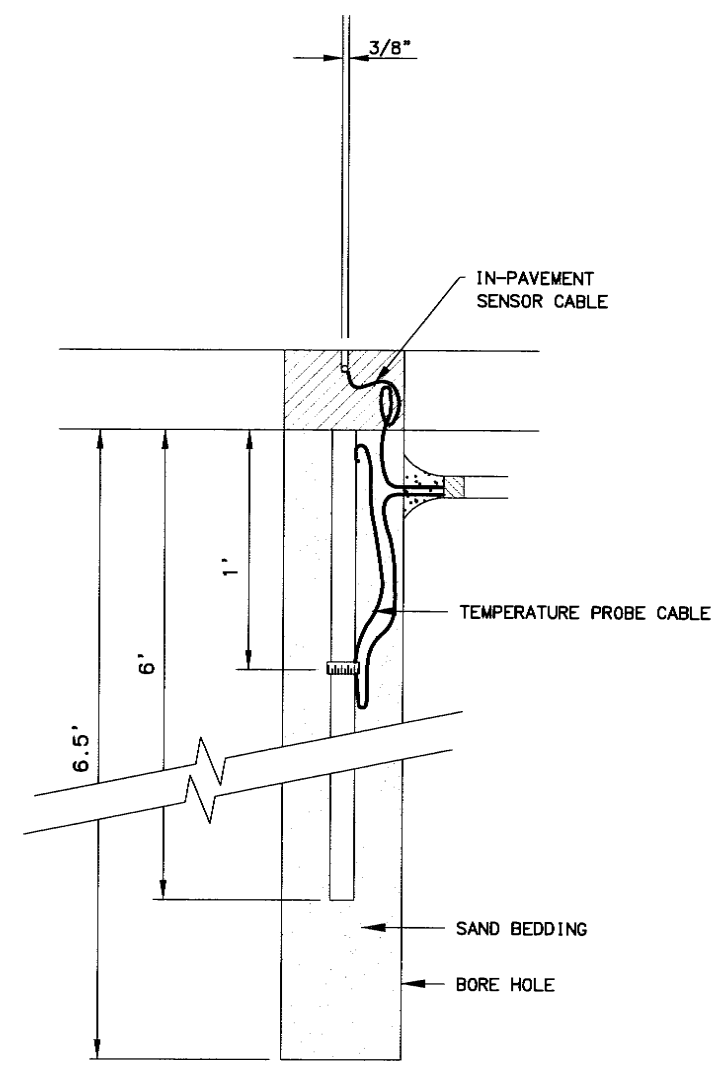
TYPICAL SPLICE DETAIL
NTS



- NOTE
1. TERMINATE ALL SPARES WITHIN THE SPLICE BODY.
 2. SPLICE BODY TO ENCLOSE ALL CABLE JACKETS.
 3. STAGGER SPLICE POINTS. SOLDER CONNECTIONS. ENCLOSE EXPOSED CONDUCTORS IN ADHESIVE WALL HEAT SHRINK TUBING.
 4. USE A NON-REENTERABLE, WET LOCATION, COMMERCIAL SPLICE KIT 3M TYPE 82-F1 OR EQUIVALENT AS APPROVED BY THE ENGINEER.
 5. SLOT FOR IN-PAVEMENT SENSORS SHALL BE PARALLEL TO THE DIRECTION OF TRAVELED WAY.
 6. INSTALL NEW AMBIENT TEMPERATURE PROBE AND ASSOCIATED HARDWARE AS SHOWN.



TEMPERATURE SENSOR DETAILS
NTS



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TEMPERATURE PROBE

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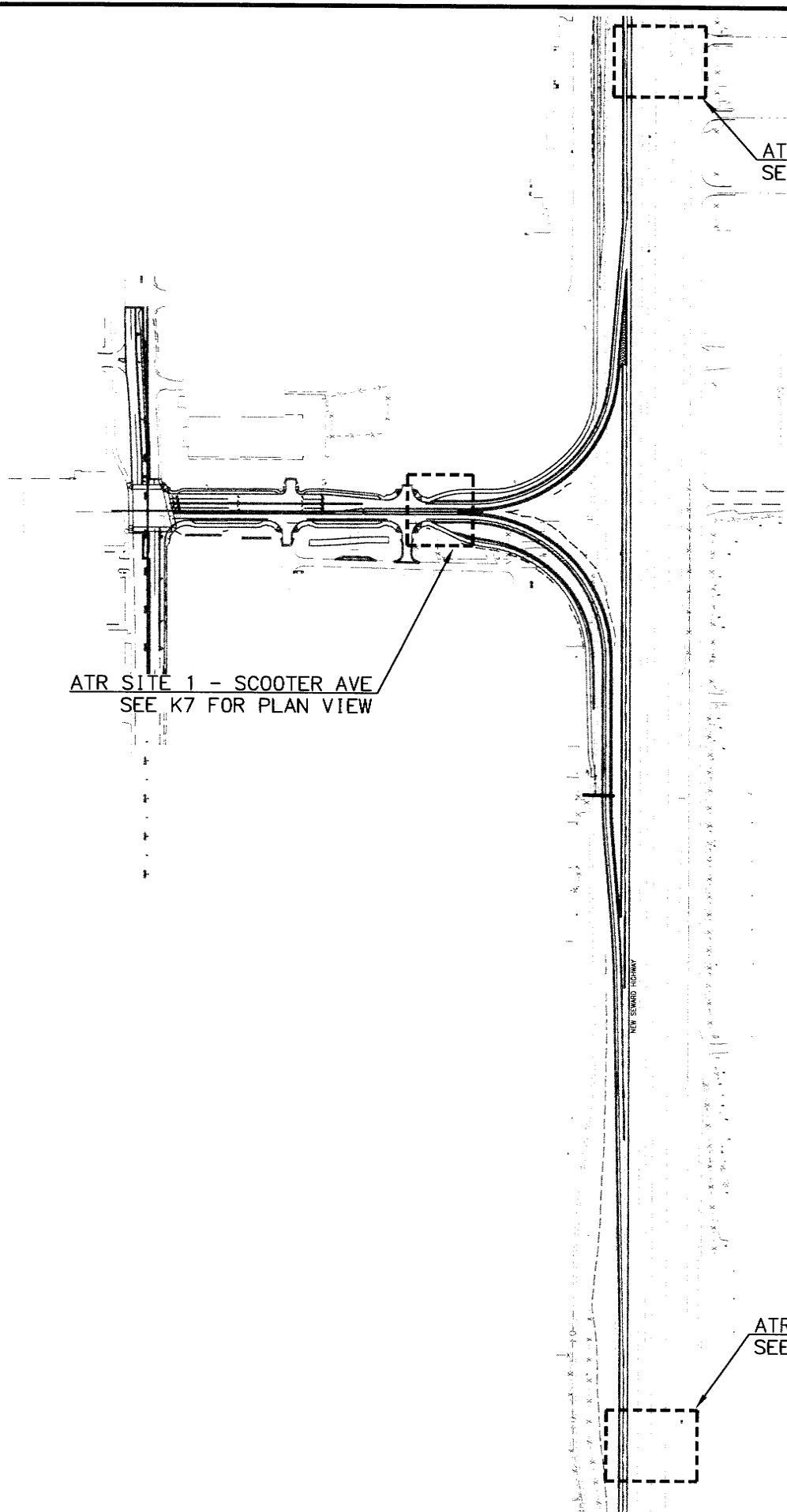
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ATR SITE 1 - SCOOTER AVE
SEE K7 FOR PLAN VIEW

ATR SITE 2 - SEWARD HWY
SEE K8 FOR PLAN VIEW

ATR SITE 3 - SEWARD HWY
SEE K9 FOR PLAN VIEW

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
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1 SITE PLAN
K5 SCALE: 1"=200'-0"

0 200' 400'

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SITE PLAN

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SITE	LOCATION	CITY/TOWN	TYPE	NUMBER OF LANES	NUMBER OF PRESENSE LOOPS	NUMBER OF PIEZO SENSORS	CONTROL CABINET	J-BOXES AND CONDUIT	INSTALL TEMP PROBE AND SURFACE SENSOR	INSTALL AMBIENT AIR SENSOR	TELEPHONE SERVICE	LOAD CENTER	LAYOUT	NOTES
1	SCOOTER AVENUE	ANCHORAGE	PR	3	4	0	NEW CBA1	NEW	NO	NO	NONE	NONE	K7	
2	SEWARD HIGHWAY	ANCHORAGE	PR	5	10	0	NEW CBA1	NEW	NO	NO	NONE	NONE	K8	2 LOOPS ON OFF-RAMP FOR DIMOND BLVD
3	SEWARD HIGHWAY	ANCHORAGE	PR	4	8	0	NEW CBA1	NEW	NO	NO	NONE	NONE	K9	

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	K6	K9

NOTES:

1. WORK AND MATERIALS SHALL CONFORM TO THE NATIONAL ELECTRICAL CODE, ALASKA DOT & PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION AND LOCAL AMENDMENTS.
2. THE CONTRACTOR SHALL FIELD VERIFY EXISTING SITE CONDITIONS AND DIMENSIONS. ASBUILT EXISTING STRIPING BEFORE REMOVING PAVEMENT.
3. USE ONLY RMC OR IMC CONDUIT FOR SENSOR TAILS AND LEAD-INS.
4. OFFSET DIMENSIONS ARE APPROXIMATE AND TO BE DETERMINED BY ENGINEER.
5. LOCATION COORDINATES ARE APPROXIMATE TO IDENTIFY GENERAL LOCATION OF ATR SITES. ALL ATR ASSEMBLIES TO BE INSTALLED PER PLAN SHEET DIAGRAMS AND DIMENSIONS WITHIN RIGHT-OF-WAY AS SHOWN

REFERENCE SPECIFICATIONS:

CONSTRUCT WIRING ACCORDING TO SPECIFICATION SECTION 660 SIGNALS AND LIGHTING, EXCEPT WHERE NOTED ON THE PLANS OR IN THE SPECIAL PROVISIONS. CONFORM TO SPECIFICATION SUBSECTIONS 660-3.03 CONDUIT, 660-3.04 JUNCTION BOXES, 660-3.05 WIRING, 660-3.06 BONDING AND GROUNDING, AND 660-3.01.7 FIELD TESTS. EXCEPT AS MODIFIED BY SECTION 669 AUTOMATED TRAFFIC RECORDERS.

PAVEMENT NOTE:

FOR SECTIONS THAT REQUIRE REMOVAL AND REPLACEMENT OF PAVEMENT, SAWCUT EXISTING PAVEMENT AND APPLY TACK COAT TO PAVEMENT EDGES. IF NECESSARY, PREPARE THE AREA WITH AGGREGATE BASE COURSE BEFORE LAYING ASPHALT CONCRETE. USE TWO 2" THICK LIFTS OF ASPHALT CONCRETE, TYPE II, CLASS A, WITH TACK COAT APPLIED BETWEEN LIFTS. SITES H4 AND H5 REQUIRE TWO 3" LIFTS.

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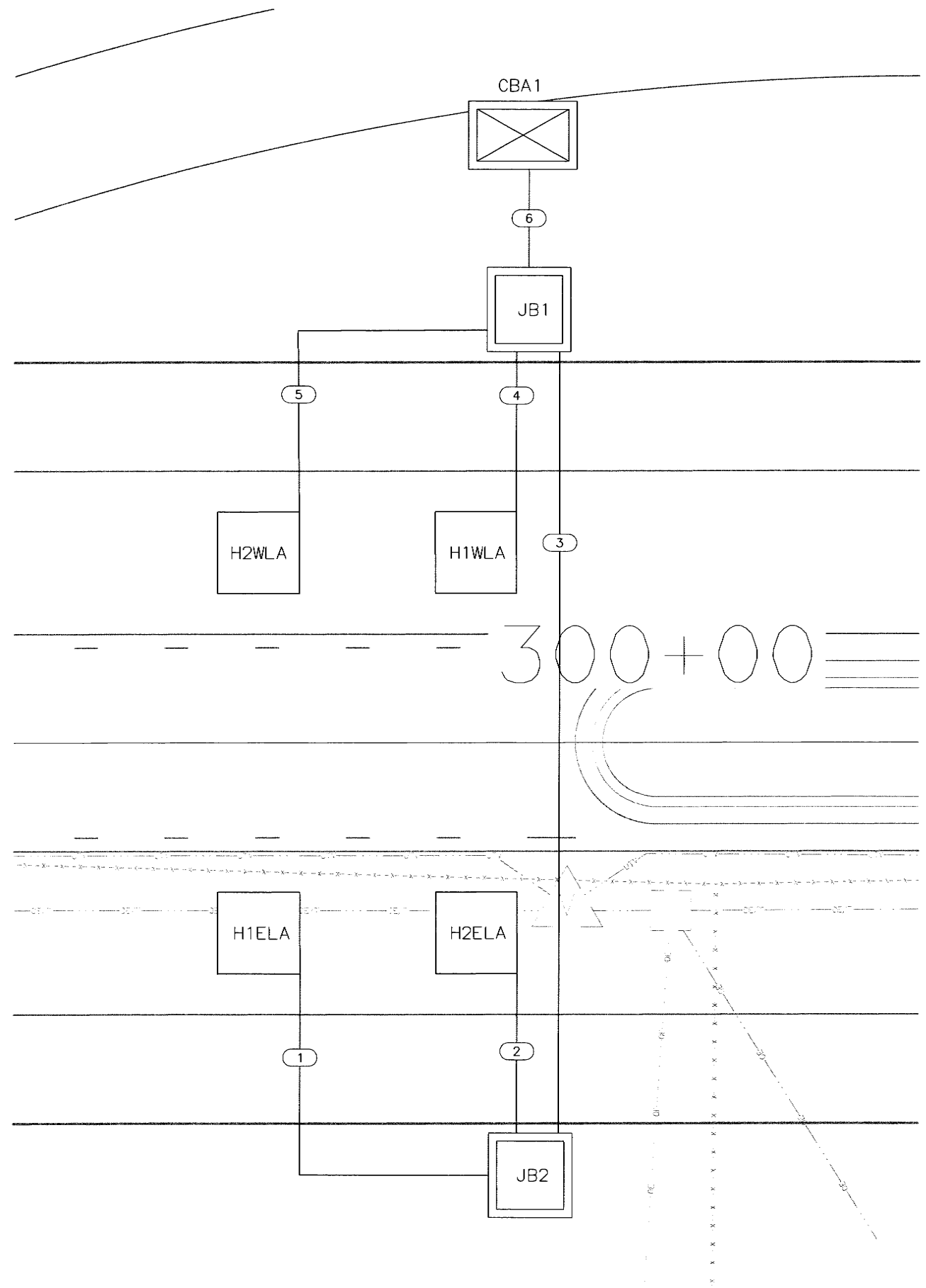
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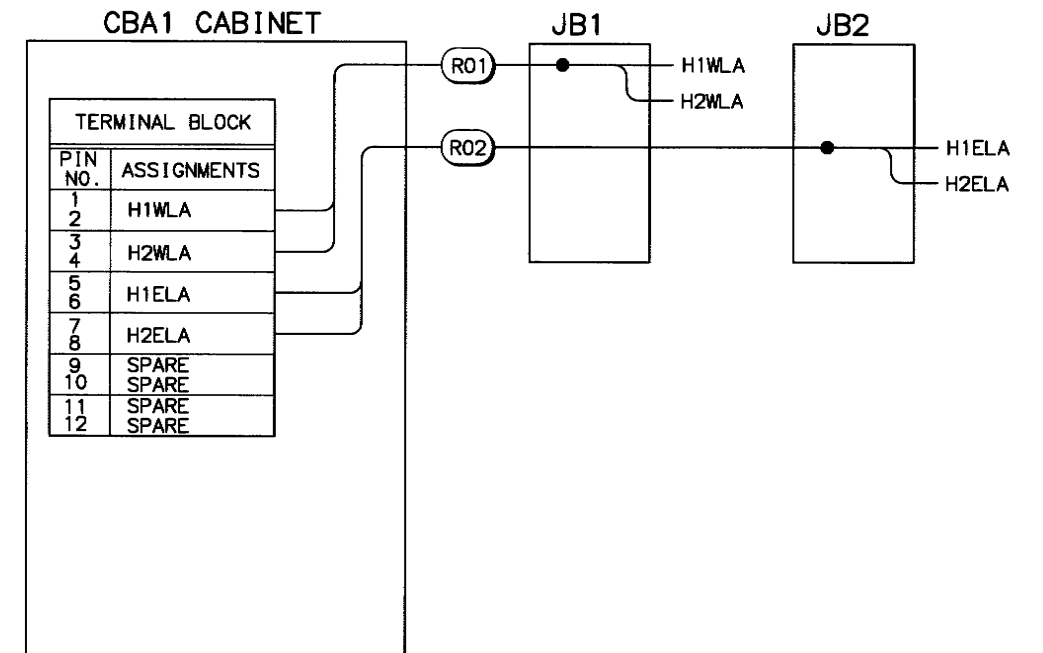
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1 SITE 1 - SCOOTER AVE
K7 SCALE: 1"=20'-0"

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	ALASKA	59770	2014	K7	K9



2 WIRING DIAGRAM
K7 SCALE: NTS

CONDUIT SCHEDULE						
TAG	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	CABLE	
					TYPE	NUMBER
1	1"	NEW	H1ELA	JB2	1-1PR#14	
2	1"	NEW	H2ELA	JB2	1-1PR#14	
3	2"	NEW	JB2	JB1	1-3PR#18	R02
4	1"	NEW	H1WLA	JB1	1-1PR#14	
5	1"	NEW	H2WLA	JB1	1-1PR#14	
6	2"	NEW	JB1	CBA1	2-3PR#18	R01,R02

FOUNDATION SCHEDULE			
	STATION ALIGNMENT	OFFSET	STRUCTURE
CBA1	'ML' 299+44.7	44.7 L	CBA1 CABINET

JUNCTION BOX SCHEDULE		
J-BOX	STATION ALIGNMENT	OFFSET
JB1	'ML' 299+44.7	32.0 L
JB2	'ML' 299+44.7	32.0 R

LOOP SCHEDULE		
LOOP	STATION ALIGNMENT	OFFSET
H1ELA	'ML' 299+73.7	14.0 L
H2ELA	'ML' 299+89.7	14.0 L
H1WLA	'ML' 299+83.7	14.0 R
H2WLA	'ML' 299+67.7	14.0 R

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CONNECTOR
SITE 1 - SCOOTER AVE

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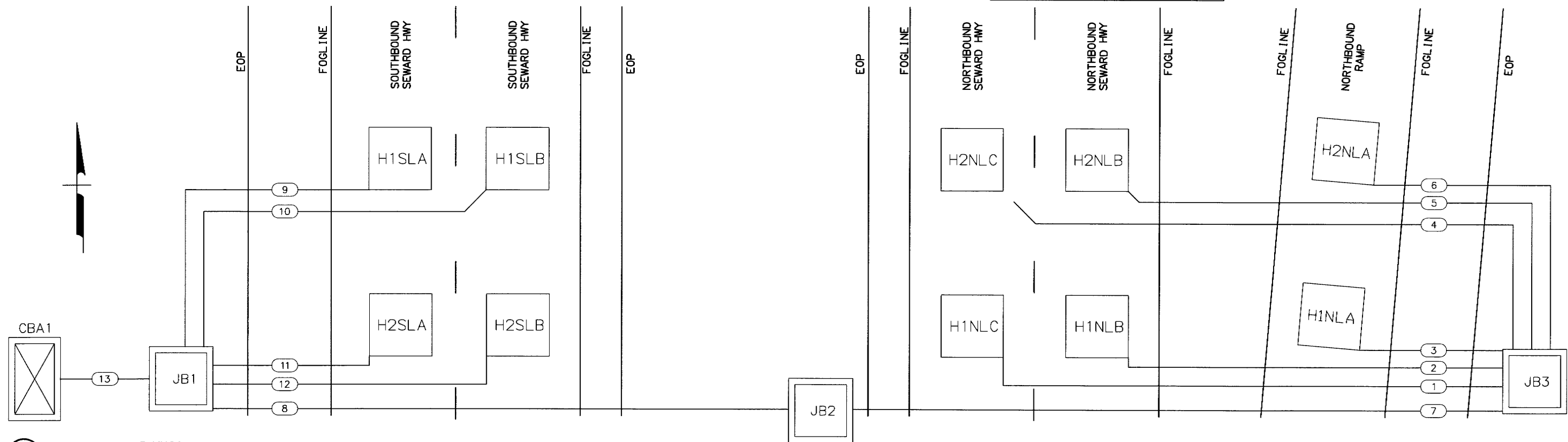
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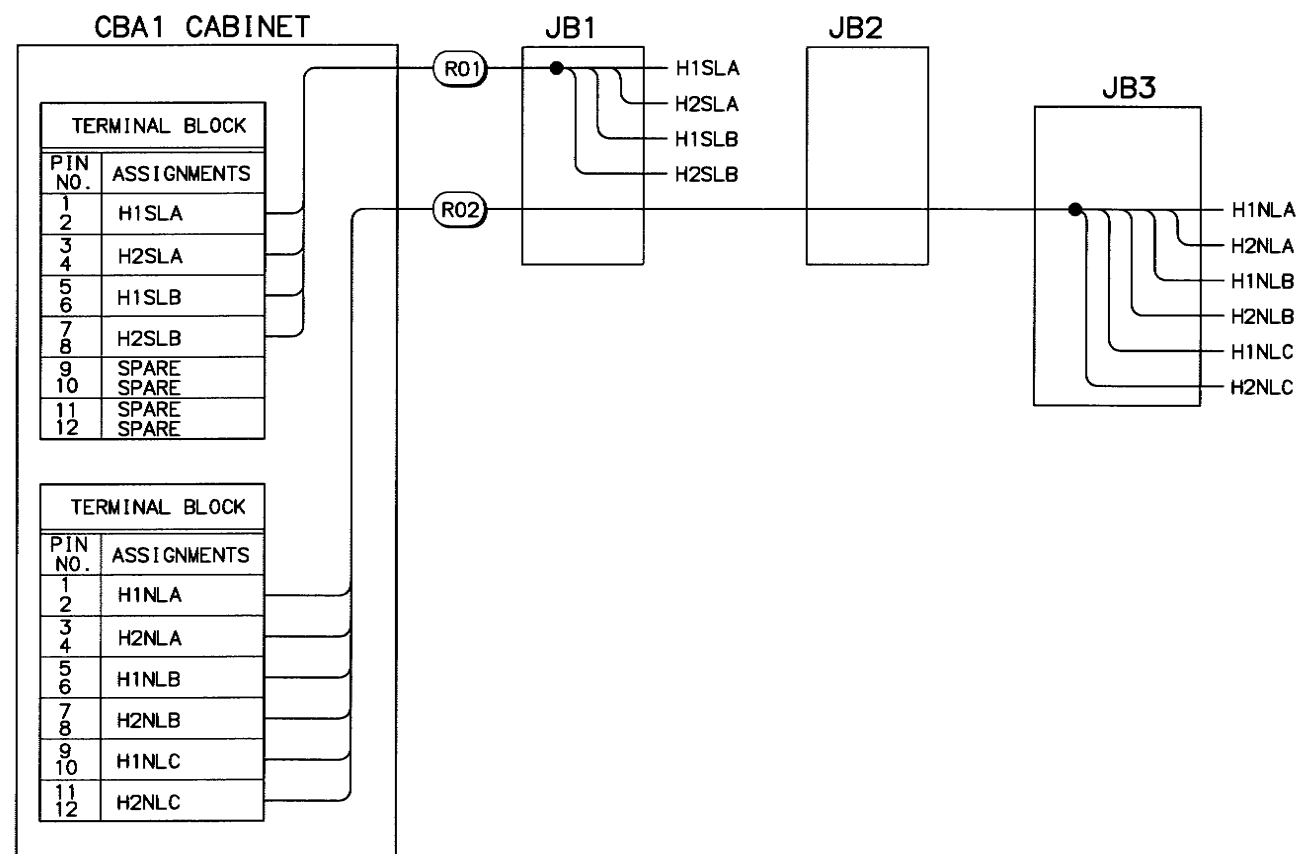
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NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	K8	K9



1 SITE 2 - SEWARD HWY
SCALE: NTS



2 WIRING DIAGRAM
SCALE: NTS

FOUNDATION SCHEDULE			
	STATION ALIGNMENT	OFFSET	STRUCTURE
CBA1	'S' 194+94.3	39.0 L	CBA1 CABINET

JUNCTION BOX SCHEDULE		
J-BOX	STATION ALIGNMENT	OFFSET
JB1	'S' 194+94.3	21.4 L
JB2	'S' 194+94.3	60.7 R
JB3	'S' 194+94.3	139.5 R

LOOP SCHEDULE		
LOOP	STATION ALIGNMENT	OFFSET
H1SLA	'S' 195+10.3	6.0 L
H2SLA	'S' 194+94.3	6.0 L
H1SLB	'S' 195+10.3	6.0 R
H2SLB	'S' 194+94.3	6.0 R
H1NLA	'S' 195+00.0	122.7 R
H2NLA	'S' 195+16.0	122.7 R
H1NLB	'S' 195+00.0	90.6 R
H2NLB	'S' 195+16.0	90.6 R
H1NLC	'S' 195+00.0	78.6 R
H2NLC	'S' 195+16.0	78.6 R

CONDUIT SCHEDULE						
TAG	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	CABLE	
					TYPE	NUMBER
1	1"	NEW	H1NLC	JB3	1-1PR#14	
2	1"	NEW	H1NLB	JB3	1-1PR#14	
3	1"	NEW	H1NLA	JB3	1-1PR#14	
4	1"	NEW	H2NLC	JB3	1-1PR#14	
5	1"	NEW	H2NLB	JB3	1-1PR#14	
6	1"	NEW	H2NLA	JB3	1-1PR#14	
7	2"	NEW	JB3	JB2	1-6PR#18	R02
8	2"	NEW	JB2	JB1	1-6PR#18	R02
9	1"	NEW	H1SLA	JB1	1-1PR#14	
10	1"	NEW	H1SLB	JB1	1-1PR#14	
11	1"	NEW	H2SLA	JB1	1-1PR#14	
12	1"	NEW	H2SLB	JB1	1-1PR#14	
13	2"	NEW	JB1	CBA1	2-6PR#18	R01,R02

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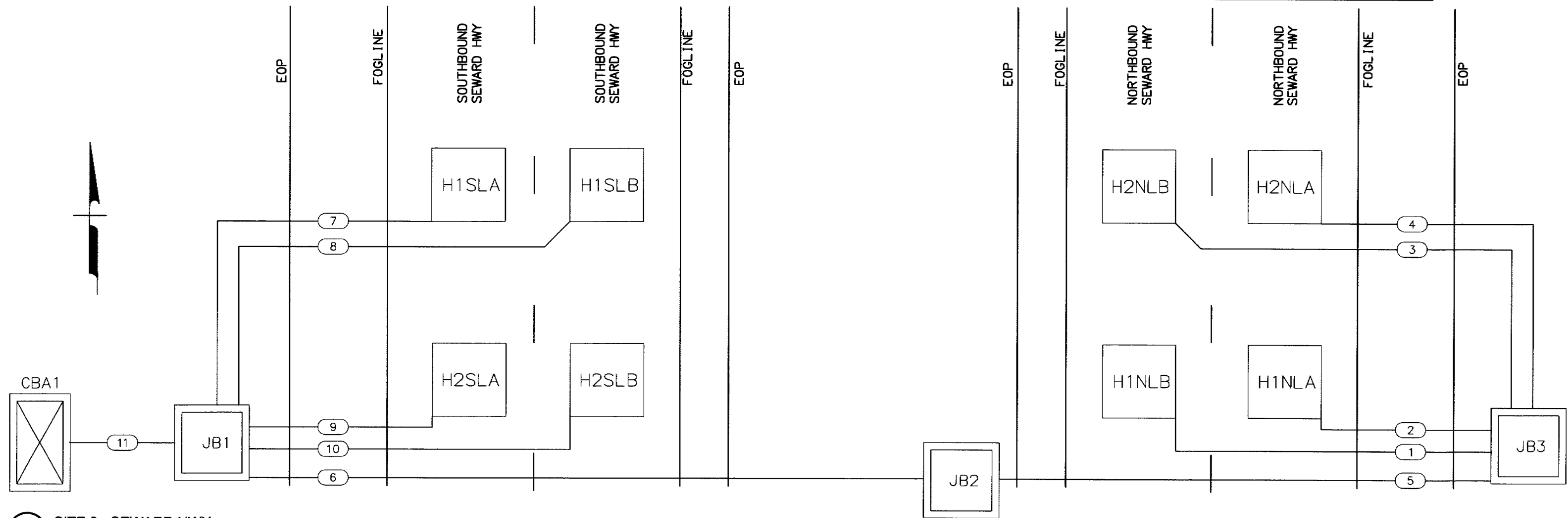
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

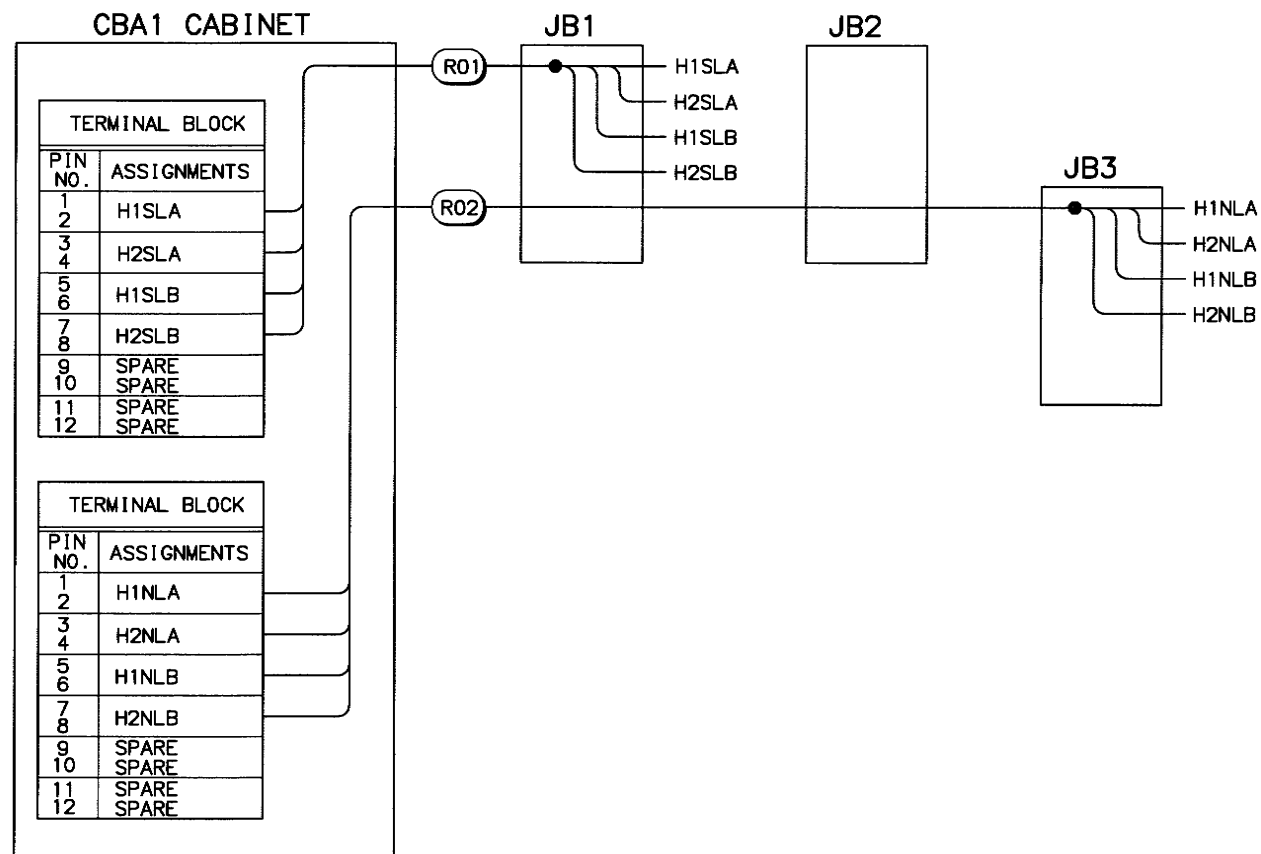
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NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	K9	K9



1 SITE 3 - SEWARD HWY
K9 SCALE: NTS



2 WIRING DIAGRAM
K9 SCALE: NTS

FOUNDATION SCHEDULE			
	STATION ALIGNMENT	OFFSET	STRUCTURE
CBA1	'S' 151+94.4	40.0 L	CBA1 CABINET

JUNCTION BOX SCHEDULE		
J-BOX	STATION ALIGNMENT	OFFSET
JB1	'S' 151+94.4	19.0 L
JB2	'S' 151+94.4	59.3 R
JB3	'S' 151+94.4	106.8 R

LOOP SCHEDULE		
LOOP	STATION ALIGNMENT	OFFSET
H1SLA	'S' 152+10.4	6.0 L
H2SLA	'S' 151+94.4	6.0 L
H1SLB	'S' 152+10.4	6.0 R
H2SLB	'S' 151+94.4	6.0 R
H1NLA	'S' 152+16.0	78.6 R
H2NLA	'S' 152+00.0	78.6 R
H1NLB	'S' 152+16.0	90.6 R
H2NLB	'S' 152+00.0	90.6 R

CONDUIT SCHEDULE						
TAG	CONDUIT SIZE (RMC)	NEW/ EXISTING	FROM	TO	CABLE	
					TYPE	NUMBER
1	1"	NEW	H1NLB	JB3	1-1PR#14	
2	1"	NEW	H1NLA	JB3	1-1PR#14	
3	1"	NEW	H2NLB	JB3	1-1PR#14	
4	1"	NEW	H2NLA	JB3	1-1PR#14	
5	2"	NEW	JB3	JB2	1-6PR#18	R02
6	2"	NEW	JB2	JB1	1-6PR#18	R02
7	1"	NEW	H1SLA	JB1	1-1PR#14	
8	1"	NEW	H1SLB	JB1	1-1PR#14	
9	1"	NEW	H2SLA	JB1	1-1PR#14	
10	1"	NEW	H2SLB	JB1	1-1PR#14	
11	2"	NEW	JB1	CBA1	2-6PR#18	R01,R02

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SITE 3 - SEWARD HWY

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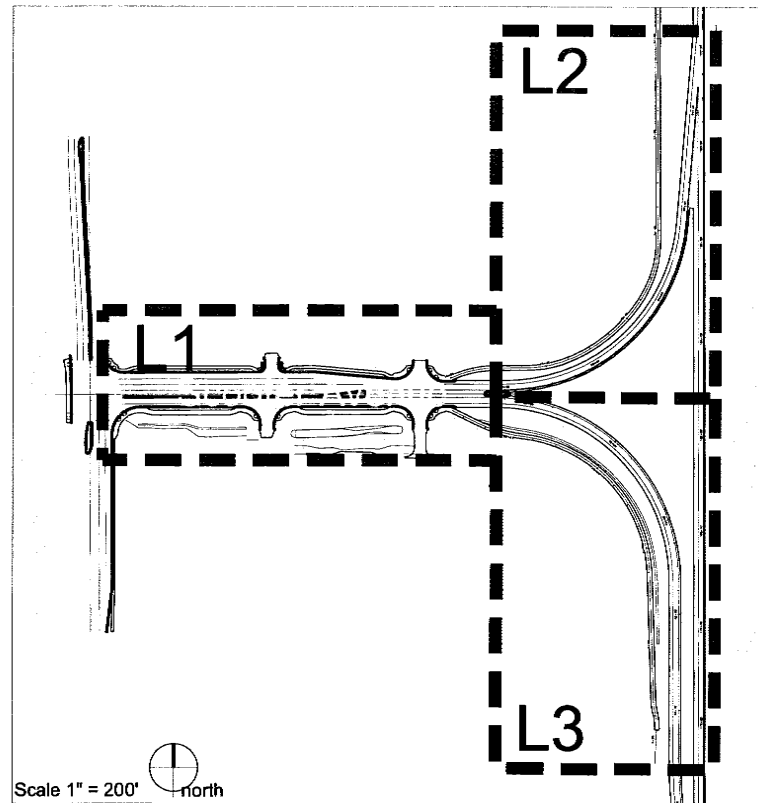
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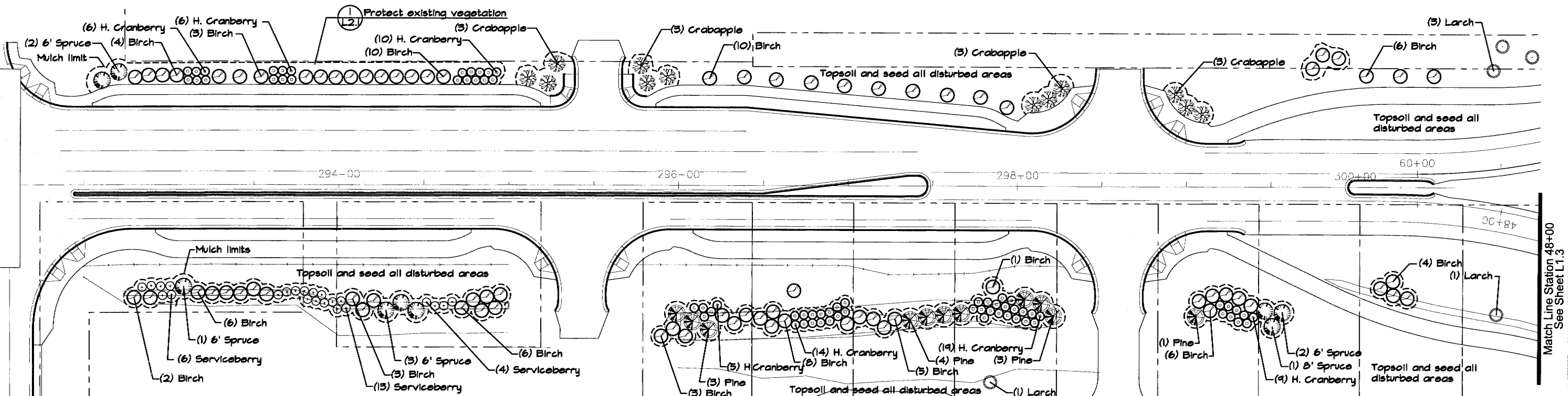
Key Map

Plant Schedule

Common Name	Botanical Name	Quantity	Spacing (Min.)	Size
Trees				
Alder, Sitka	<i>Alnus viridis</i>	51	10' o.c.	8' tall
Birch	<i>Betula papyrifera</i>	81	10' o.c.	25' tall/see notes
Crabapple	<i>Malus baccata</i>	12	8' o.c.	3" cal.
Larch	<i>Larix decidua</i>	8	8' o.c.	8' tall
Pine, Bristlecone	<i>Pinus aristata</i>	16	10' o.c.	8' tall
White Spruce, 4' tall	<i>Picea glauca</i>	29	10' o.c.	4' tall
White Spruce, 6' tall	<i>Picea glauca</i>	89	10' o.c.	6' tall
White Spruce, 8' tall	<i>Picea glauca</i>	43	10' o.c.	8' tall
Shrubs				
Highbush Cranberry	<i>Viburnum opulus</i>	69	5' o.c.	48" tall
Serviceberry	<i>Amelanchier alnifolia</i>	23	5' o.c.	48" tall

Notes

- All plants shall meet American Standard for Nursery Stock (ANSI Z60.1-2004), American Nursery and Landscape Association (ANLA), www.anla.org.
- Plant warranty and maintenance period shall be one year.
- Replace all dead or dying plants within 7 days of notification.
- All evergreen trees to be nursery grown. Height to spread ratio of all evergreen trees equal 5 (height):3 (spread). Spruce trees shall have thick growth with the ability to provide a screen at the time of installation (no more than 25% transparency). All evergreen trees shall be fully limbed to the ground with no damage to lower branches.
- Birch shall be multi-stem/clump-30% shall have a minimum of three stems with one 4", one 3" and one 2" caliper; 50% shall have minimum two stems 3"-4" caliper each; the remainder shall be single stem minimum 4" caliper. All birch to have branching to canopy for 2/3 of tree.
- Highbush cranberry and Serviceberry to be nursery grown.
- Stake all tree locations for review by owner or Landscape Architect prior to digging holes.
- Mulch continuously throughout all planting beds with 3" shredded bark mulch (see Details, Sheet L2.0). Owner to approve mulch prior to use.
- Topsoil and seed all disturbed areas. Areas to be seeded shall receive 4" topsoil. DO NOT SEED PLANTING BEDS. Topsoil depth shall be 4", transition topsoil to existing grade to create smooth even surface. Seed with MASS schedule B.
- Completely prefill all planting beds with water. Contact owner if beds fail to drain within 3 hours. Do not plant in poorly drained beds.
- Plants shall be weed-free at time of planting. All planting beds to be weed-free during plant warranty and maintenance period.



Landscape Planting Plan

92nd. Avenue

Scale 1" = 30'

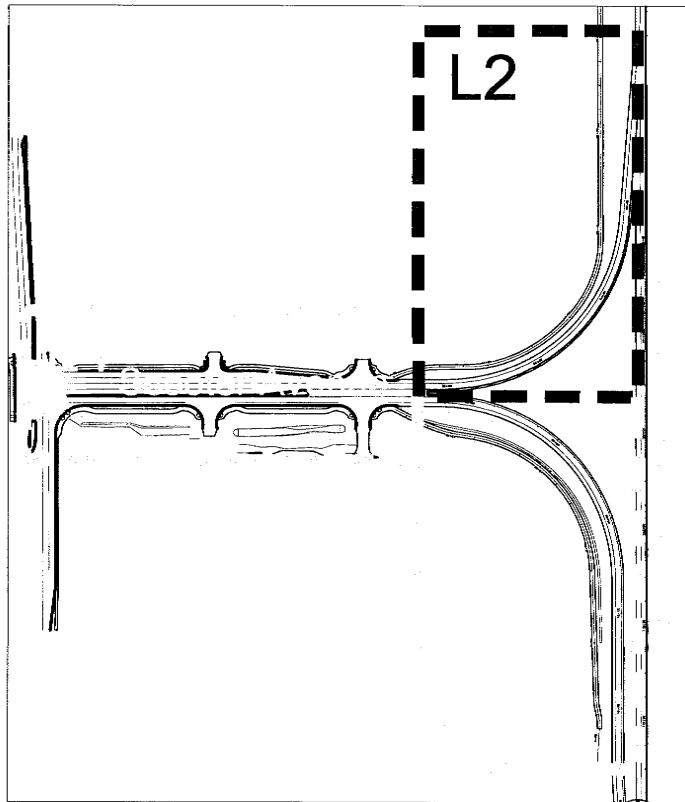
PS&E Review 9/13/13

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This document represents
current concepts as of
(See date @ left border)

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

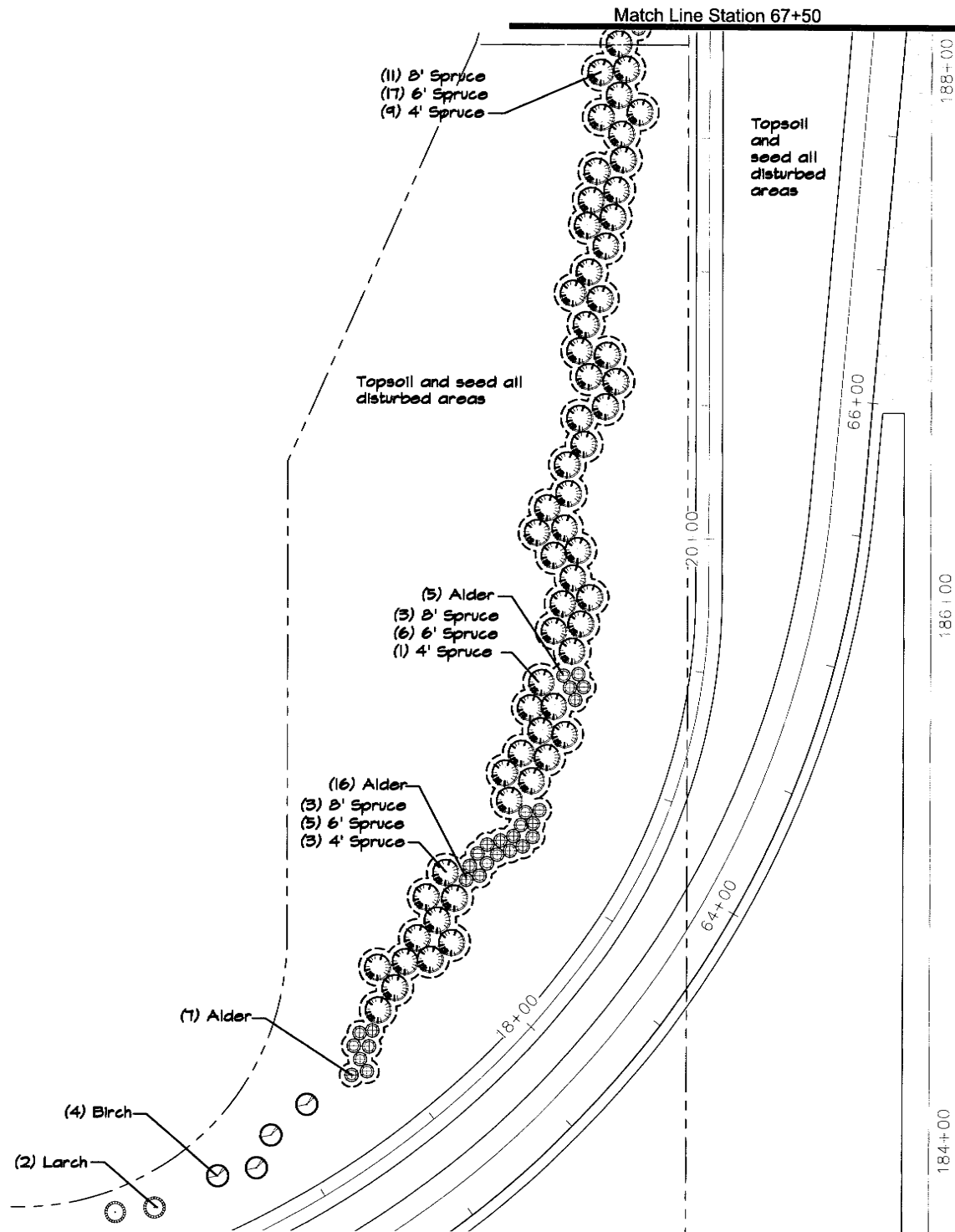
HATTENBURG DILLEY & LINNELL

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Key Map

Scale 1" = 200'

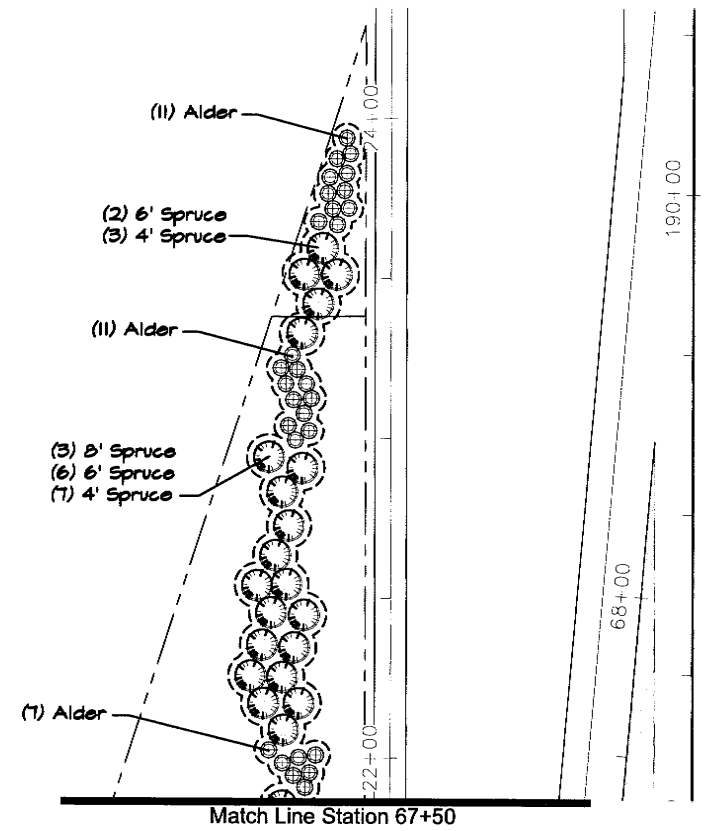


Landscape Planting Plan

Seward Highway Off-Ramp

REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	L2	L5



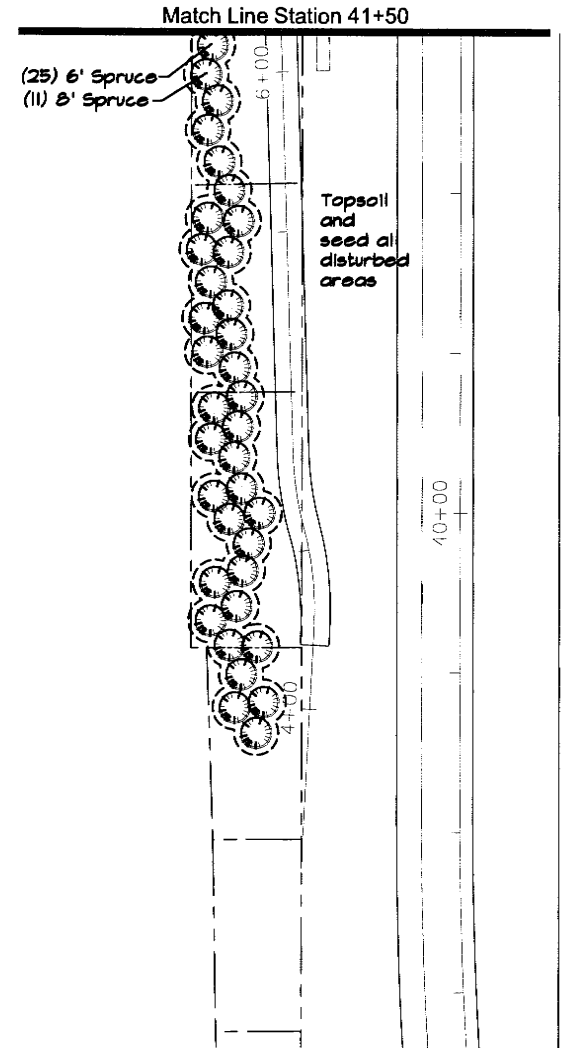
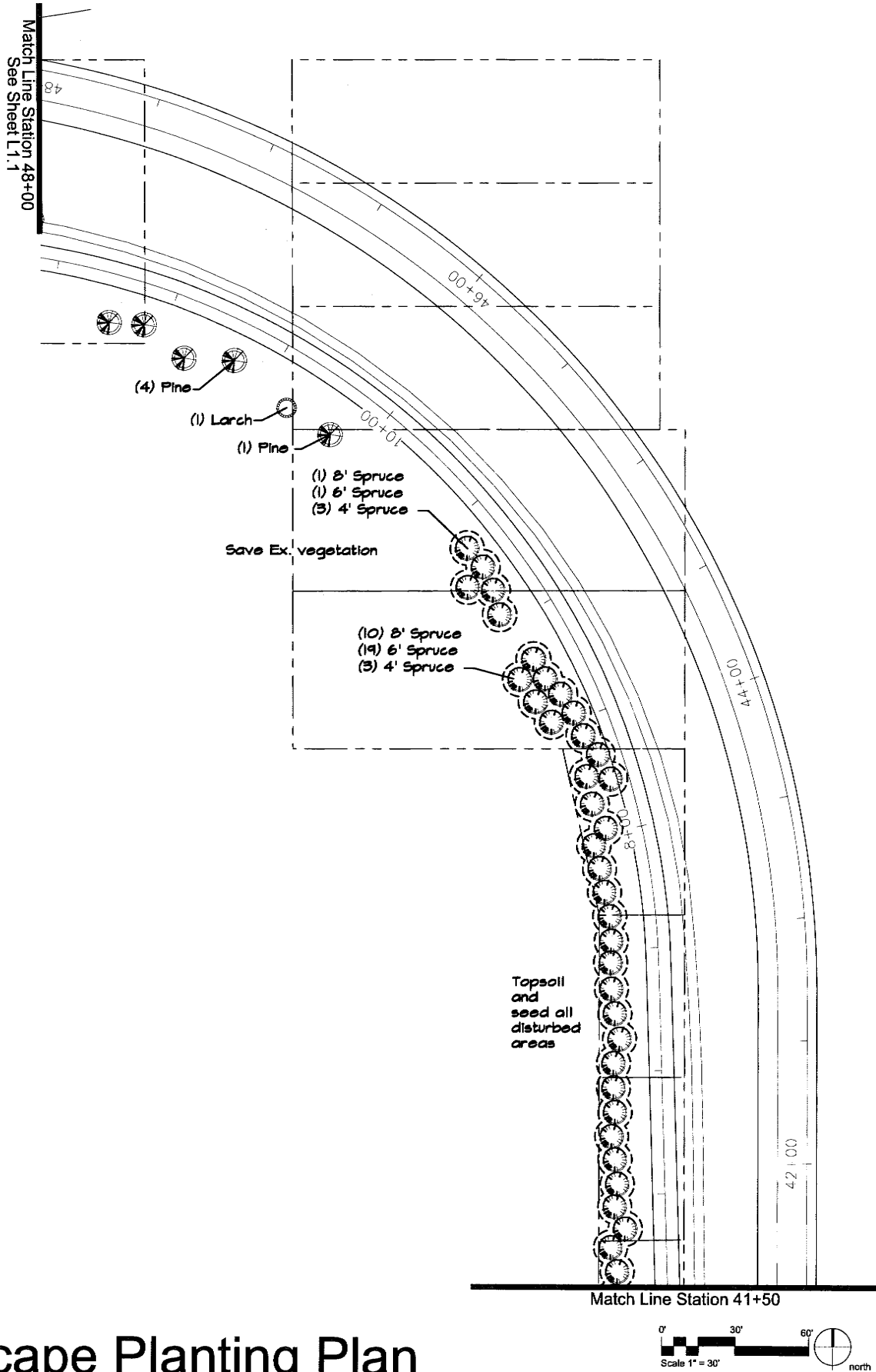
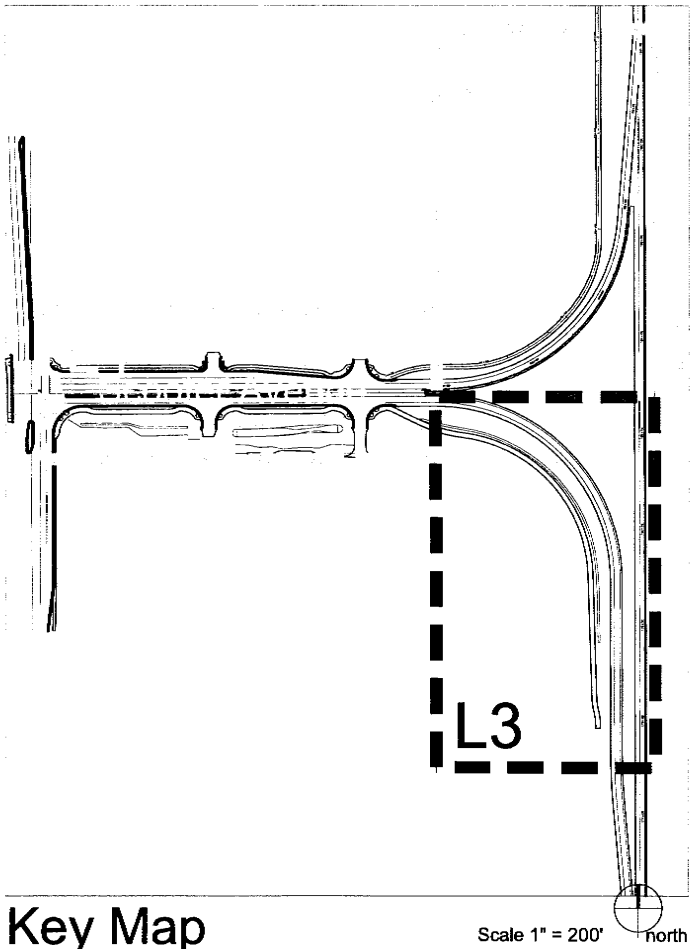
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

HATTENBURG DILLEY & LINNELL

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LAYOUT SCALE: 1"=80'



REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	L3	L5

Landscape Planting Plan

Seward Highway On-Ramp

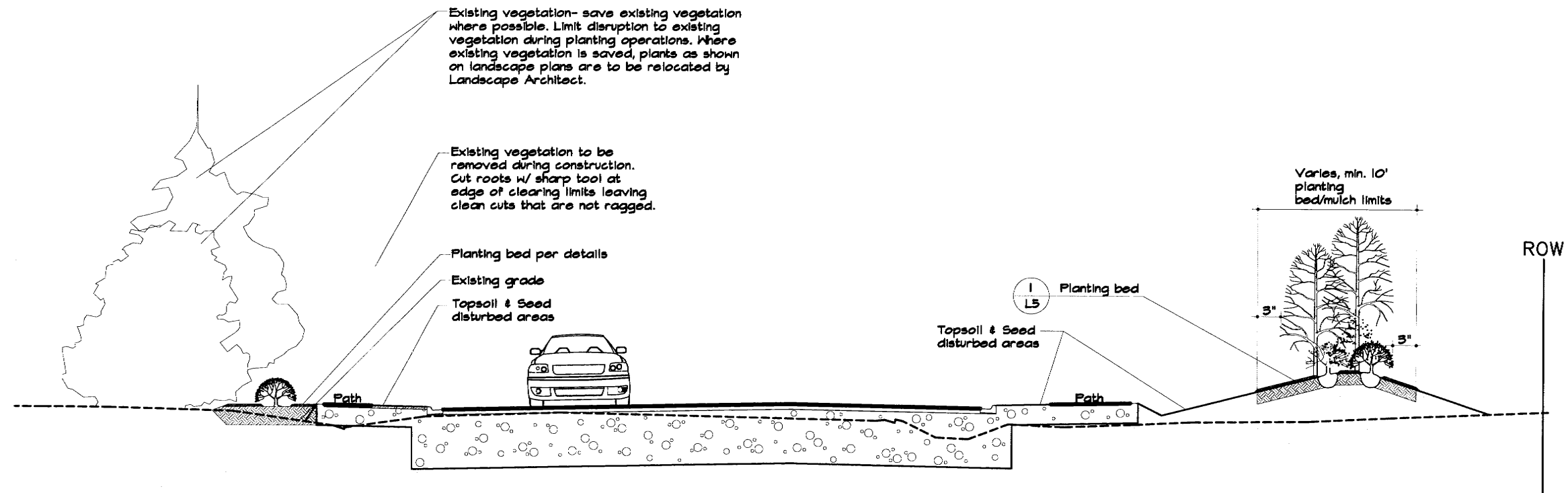
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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

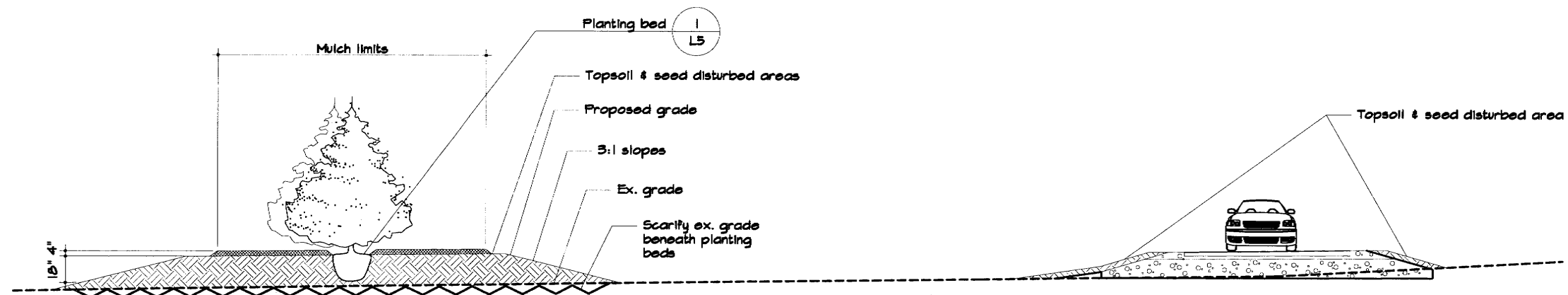
HATTENBURG DILLEY & LINNELL

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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	L4	L5



1 Typical Cross Section Along 92nd Ave.
L4 SCALE: NTS



2 Typical Cross Section at Ramps
L4 SCALE: NTS

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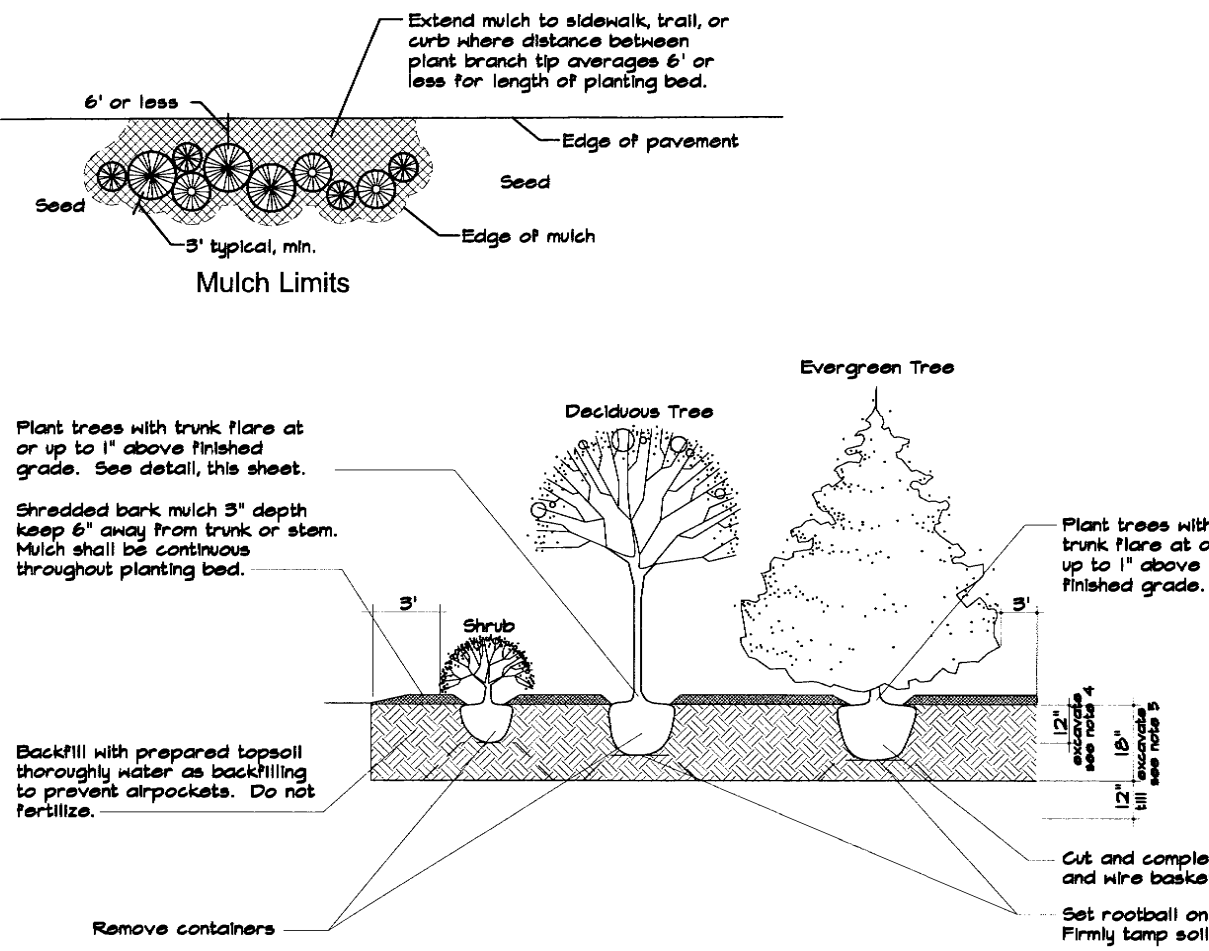
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

HATTENBURG DILLEY & LINNELL

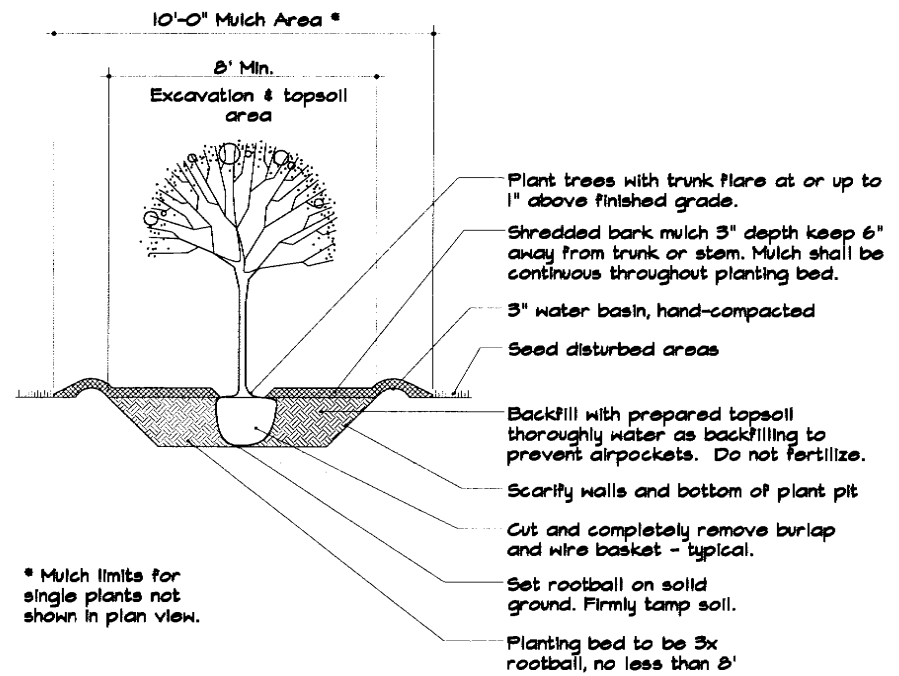
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
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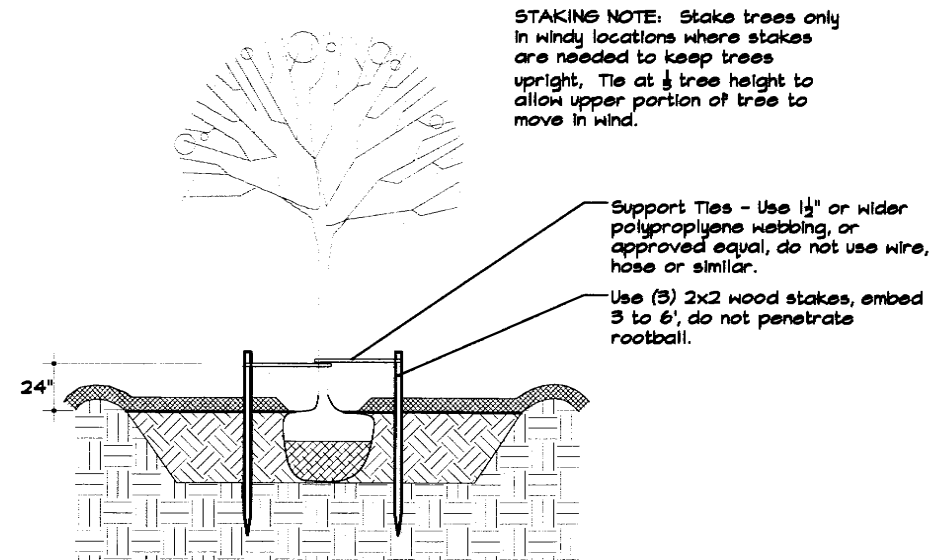
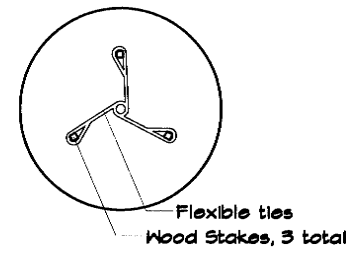


1 Planting Bed Detail
L5 SCALE: NTS

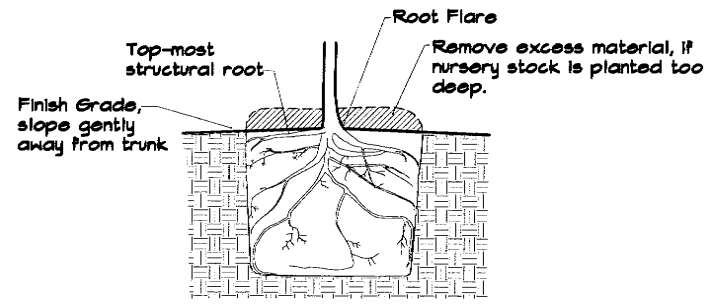


3 Single Tree Planting
L5 SCALE: NTS

- Notes:
1. Prepare planting bed as shown on plans:
 - a. Excavate and remove soil
 - b. Till subgrade
 - c. Backfill with topsoil
 - d. Install edging
 - e. Plant trees and shrubs after landscape architect has approved staked locations
 2. Contractor to verify location of utilities prior to excavation.
 3. Several areas on plans require large areas of mulch. Contractor to provide mulch between plantings and pathways, up to property line, edging or existing vegetation, where planting beds are adjacent to existing vegetation.



2 Tree Staking
L5 SCALE: NTS



4 Planting Depth Detail
L5 SCALE: NTS

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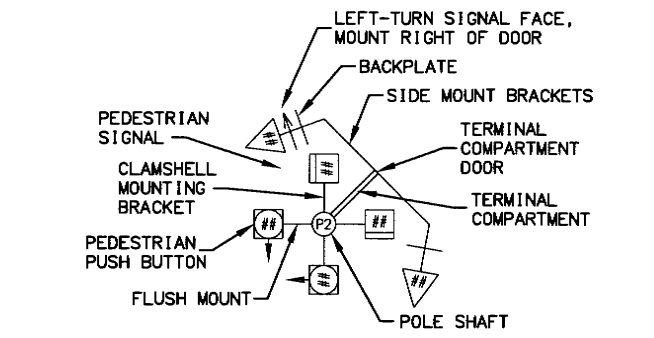
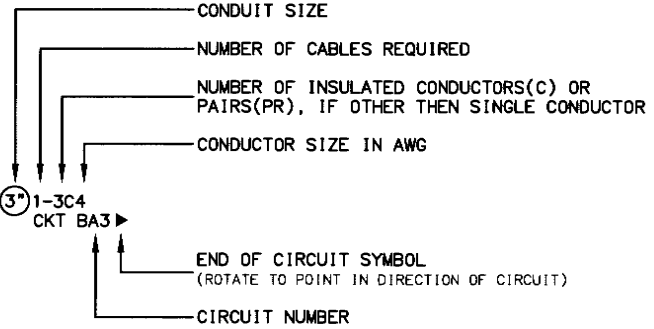
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

HATTENBURG DILLEY & LINNELL

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SYMBOL LEGEND

EXISTING	PROPOSED	
		LOAD CENTER
		TRAFFIC CONTROLLER
		BEACON CONTROLLER
		TYPE 1A JUNCTION BOX
		TYPE 1I JUNCTION BOX
		TYPE 1II JUNCTION BOX
		TYPE 1V JUNCTION BOX
		ELECTROLIER
		HIGHTOWER
		SIGNAL POLE WITH MASTARM
		PEDESTRIAN PUSH BUTTON
		PEDESTRIAN SIGNAL
		VEHICULAR SIGNAL
		VEHICULAR SIGNAL LEFT
		VEHICULAR SIGNAL RIGHT
		OPTICAL DETECTOR
		GPS DETECTOR
		CAMARA DETECTOR
		RADAR DETECTOR
		LOOP DETECTOR
		ANTENNA, YAGI OR OMNI
		MASTARM BEACON
		RURAL BEACON
		SCHOOL ZONE BEACON
		LOOP DETECTOR CONDUIT
		SIGNAL CONDUIT
		LIGHTING CONDUIT
		SIGNAL & LIGHTING CONDUIT
		CONDUIT BORING
		CONDUIT SIZE IN INCHES
		SIGN POST



POLE SHAFT LEGEND

CALL BEFORE YOU DIG!

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

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

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

ABBREVIATIONS

- CL - CENTERLINE
- SIG - SERVICE TO CONTROLLER
- INTX - INTERSECTION
- INTX L - INTERSECTION LIGHTING
- LTG - LIGHTING
- PRE 2 - PREEMPTION #
- PRE CON 2 - PREEMPTION CONTROLLER #
- LC - LOAD CENTER
- TC - TRAFFIC CONTROLLER
- P1 - TRAFFIC SIGNAL POLE #
- PEC - PHOTOELECTRIC CELL
- YAGI - DIRECTIONAL ANTENNA
- OMNI - OMNI DIRECTIONAL ANTENNA
- HEAD - VEHICULAR SIGNAL HEAD
- PED B 28 - PEDESTRIAN PUSH BUTTON #
- PEDI - PEDESTRIAN SIGNAL HEAD
- RMC - RIGID METAL CONDUIT
- PE - POLYETHYLENE CONDUIT
- LFNC - LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT
- AWG - AMERICAN WIRE GAUGE
- NB - NORTH BOUND
- EB - EAST BOUND
- SB - SOUTH BOUND
- WB - WEST BOUND
- CIDH - CAST IN DRILLED HOLE
- PTZ - PAN, TILT, ZOOM

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
08/08/2013		CENTRAL REGION DETAIL	ALASKA	59770	2014	P1	P23

NOTES:

FOUNDATIONS NOTES:

- STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
- JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J-BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, DRIVEWAYS, AND DRAINAGE COLLECTION AREAS.
- INSTALL LOAD CENTER AND TRAFFIC CONTROLLER FOUNDATIONS WITHIN 1-DEGREE OF PLUMB.
- INSTALL ANCHOR BOLTS IN CAST FOUNDATIONS TO BE WITHIN 1:40 OF PLUMB.
- TOPSOIL AND SEED ANY DISTURBED AREAS.

SIGNAL SYSTEM NOTES:

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

PS&E REVIEW 9/27/2013

WORK IN PROGRESS
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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

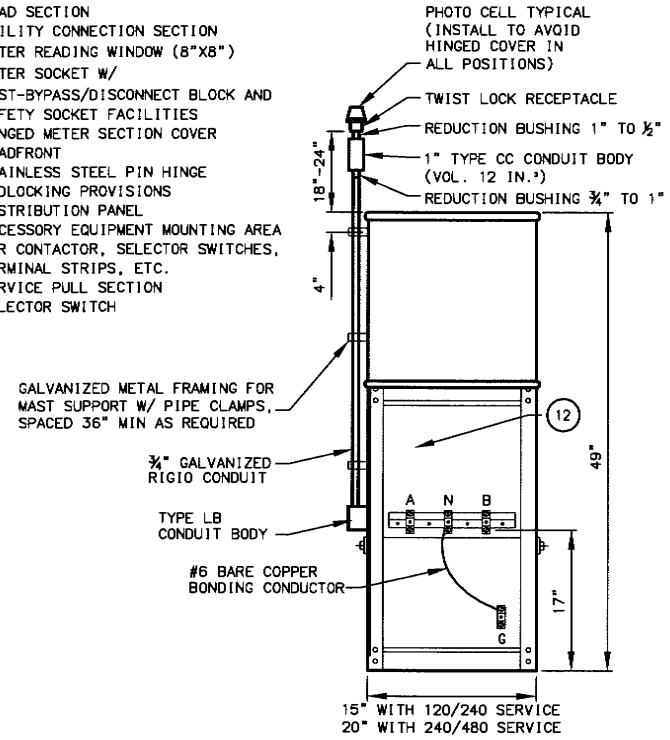
TRAFFIC LEGEND AND NOTES

EDC, INC

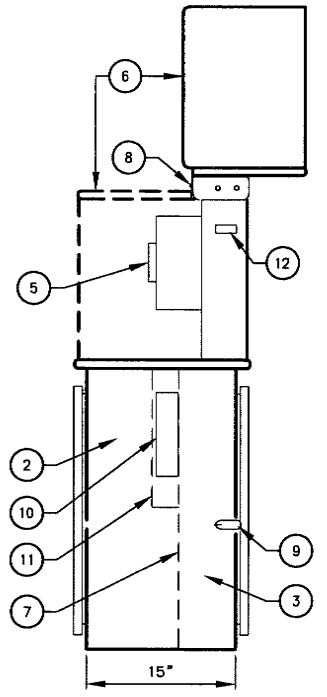
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EQUIPMENT LEGEND/DESCRIPTION

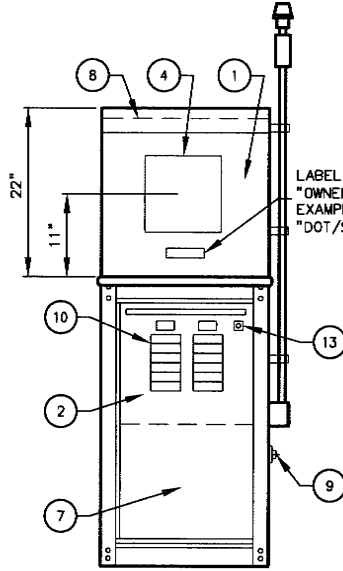
1. METERING SECTION
2. LOAD SECTION
3. UTILITY CONNECTION SECTION
4. METER READING WINDOW (8"x8")
5. METER SOCKET W/
TEST-BYPASS/DISCONNECT BLOCK AND
SAFETY SOCKET FACILITIES
6. HINGED METER SECTION COVER
7. DEADFRONT
8. STAINLESS STEEL PIN HINGE
9. PADLOCKING PROVISIONS
10. DISTRIBUTION PANEL
11. ACCESSORY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



REAR VIEW
(W/ DOOR REMOVED)

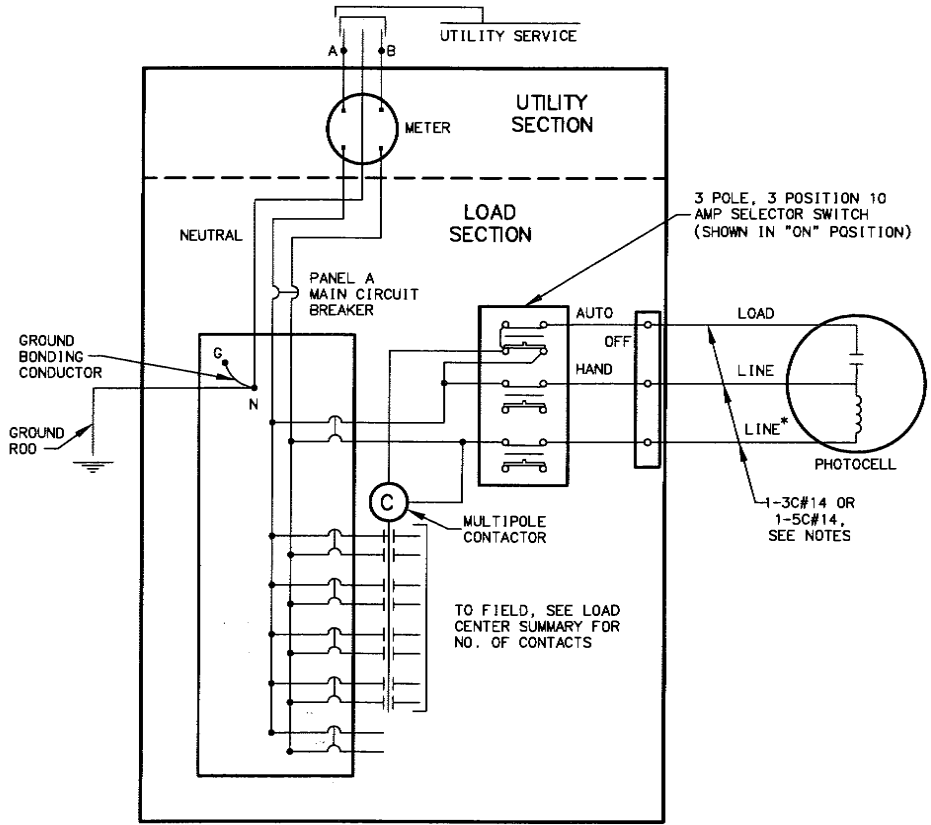


RIGHT SIDE VIEW
(W/ METER SECTION OPEN)



FRONT VIEW
(W/ DOOR REMOVED)

TYPE 1A CABINET DETAILS



LOAD CENTER ONE LINE DIAGRAM AND
SELECTOR SWITCH WIRING

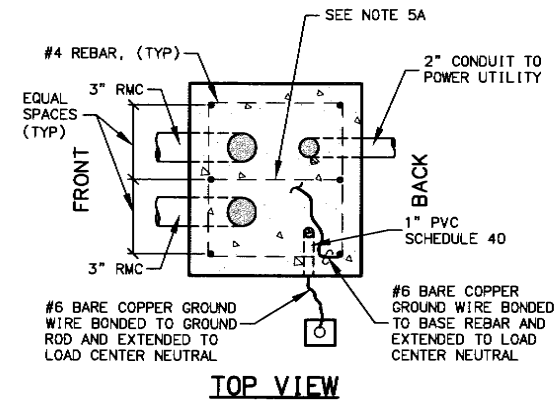
* GROUNDED NEUTRAL, IF SERVICE IS 240/480 VOLT SINGLE
PHASE OR 277/480 VOLT THREE-PHASE; AND UNDERGROUND
LINE, IF SERVICE IS 120/240 VOLT SINGLE PHASE.

WIRING NOTES:

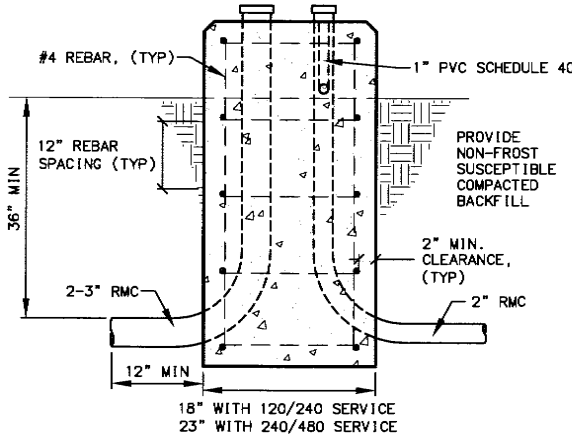
1. FURNISH ALL EQUIPMENT NOTED IN THE LOAD CENTER SUMMARY, PLUS TWO
20-AMP 2-POLE SPARE CIRCUIT BREAKERS, AND SPACE FOR A MINIMUM OF
TWO ADDITIONAL 2-POLE CIRCUIT BREAKERS IN EACH LOAD PANEL. SEE THE
LOAD CENTER SUMMARIES FOR LOAD PANEL VOLTAGES, CURRENT RATINGS,
AND THE NAME OF THE SERVING UTILITY.
2. INSTALL GROUNDING HUBS THIRD PARTY CERTIFIED FOR WET LOCATIONS
(MYERS TYPE), WHEN ATTACHING CONDUITS TO THE LOAD CENTER ENCLOSURE.
3. LABEL ALL CIRCUIT BREAKERS AS TO FUNCTION AND POSITION. LABEL THE
SELECTOR SWITCH "LIGHTING" AND ITS POSITIONS "ON-OFF-AUTO".
4. METER BASES SHALL NOT BE MOUNTED ON MOVABLE PANELS OR DOORS.
5. THE LENGTH AND TYPE OF SERVICE ENTRANCE CONDUIT INSTALLED BY THE
CONTRACTOR VARIES BY UTILITY. REGARDLESS OF ITS LENGTH, INSTALL A
PULL ROPE IN THE SERVICE CONDUIT AND A CAP ON THE BURIED END; MARK
THE BURIED END WITH A 2"x 6" STAKE. SEE THE LOAD CENTER SUMMARIES
FOR THE FOLLOWING INFORMATION.
A. STATION AND OFFSET OF THE LOAD CENTER AND POWER SOURCE.
B. WHERE THE CONTRACTOR TERMINATES THE SERVICE ENTRANCE CONDUIT.
C. THE TYPE OF SERVICE ENTRANCE CONDUIT (SUCH AS RIGID METAL
CONDUIT OR LIQUID-TIGHT FLEXIBLE METAL CONDUIT).
6. STORE A SCHEMATIC DIAGRAM, A CIRCUIT DIRECTORY, AND A MATERIALS
LIST THAT INCLUDES THE MANUFACTURER'S NAME AND PART/CATALOG
NUMBERS, ALL LAMINATED IN PLASTIC, IN A METAL POCKET ATTACHED TO
THE INSIDE OF THE LOAD CENTER. INSTALL THE POCKET ON THE LOAD
CENTER DOOR, PROVIDING DRAIN HOLES TO PREVENT WATER ACCUMULATION.
7. SIZE THE DISTRIBUTION PANEL TO ACCOMMODATE THE CIRCUITS SHOWN ON
THE LOAD CENTER SUMMARIES AND SPARE CIRCUITS AS DEFINED IN NOTE 1.
8. SEPARATE THE MAIN CIRCUIT BREAKER FROM THE DISTRIBUTION PANEL.
9. MOUNT PHOTOCELL RECEPTACLE TO 1/2" CONDUIT WITH SILICONE SEALANT.
INSTALL A 3C#14 CABLE FROM THE LOAD CENTER TO THE TYPE CC CONDUIT
BODY WHERE THE SPLICE TO THE PHOTOCELL RECEPTACLE CABLE SHALL BE
MADE. IF PLANS CALL TO MOUNT PHOTOCELL AWAY FROM LOAD CENTER USE A
5C#14 CABLE FROM LOAD CENTER TO RECEPTACLE.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					

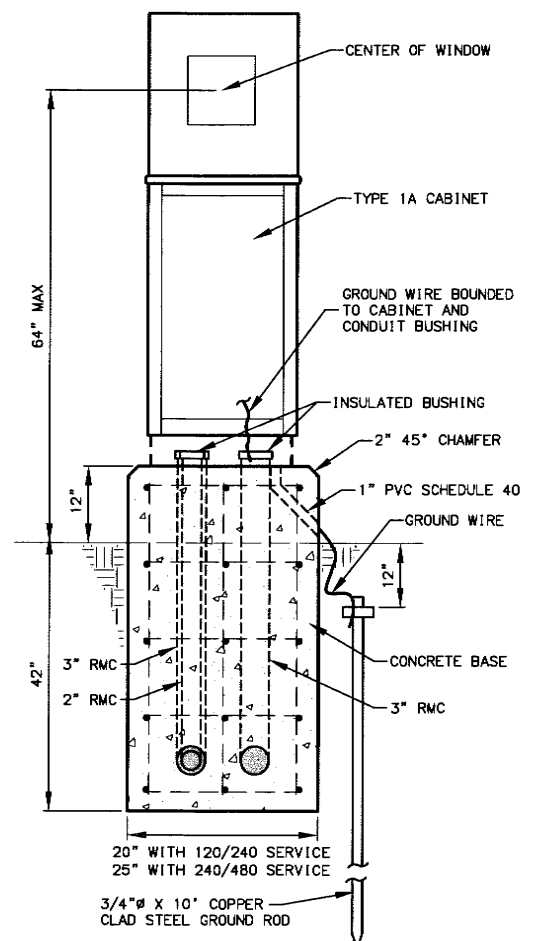
08/08/2012	CENTRAL REGION DETAIL - REPLACES STD. DWG. L-25.00		ALASKA	59770	2014	P2	P23
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PROVIDE "J" ANCHOR BOLTS AS REQUIRED TO MOUNT LOAD CENTER
CABINET IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS



RIGHT SIDE
VIEW



FRONT VIEW

FOUNDATION NOTES:

1. GRADE AWAY FROM THE BASE WITH A MINIMUM SLOPE OF 3%. USE A PRE-MOULDED BITUMINOUS JOINT
BETWEEN THE BASE AND CONCRETE SIDEWALK OR PAVING, WHEN ADJACENT TO A SIDEWALK OR PATHWAY.
2. PROVIDE ANCHOR BOLTS OR EXPANSION ANCHORS IN THE BASE FOR MOUNTING THE CABINET PER THE
MANUFACTURER'S SHOP DRAWINGS. ANCHOR BOLTS, NUTS, AND WASHERS SHALL CONFORM TO EITHER ASTM
A307 OR A449 AND SHALL BE GALVANIZED IN ACCORDANCE WITH ASTM A153.
3. USE GRADE 60 REINFORCING STEEL CONFORMING TO ASTM 615 AND CLASS "A" CONCRETE CONFORMING TO
SECTION 501 OF THE SPECIFICATIONS WHEN CASTING THE BASE.
4. IF THE BASE IS PRECAST, INSTALL TWO 3/4" FERRULE LOOP INSERTS IN TWO SIDES OPPOSITE ONE
ANOTHER FOR LIFTING.

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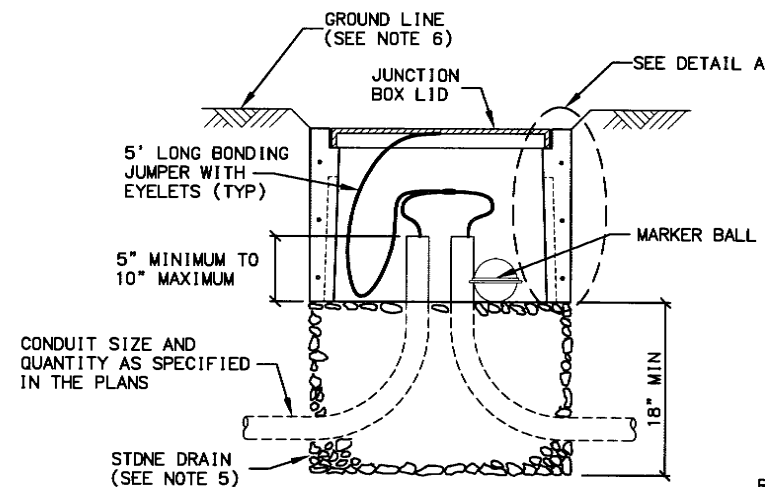
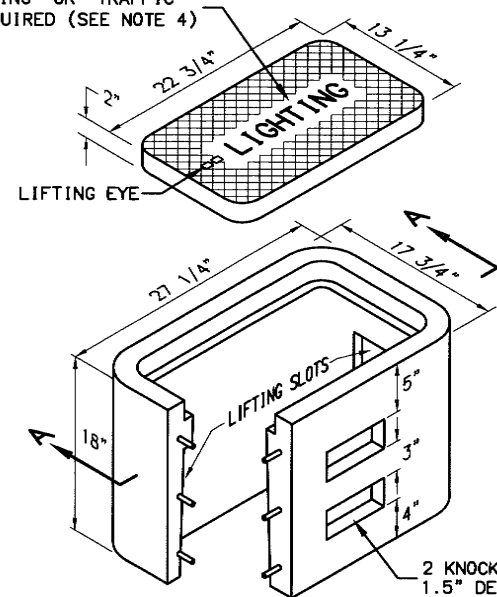
EDC, INC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

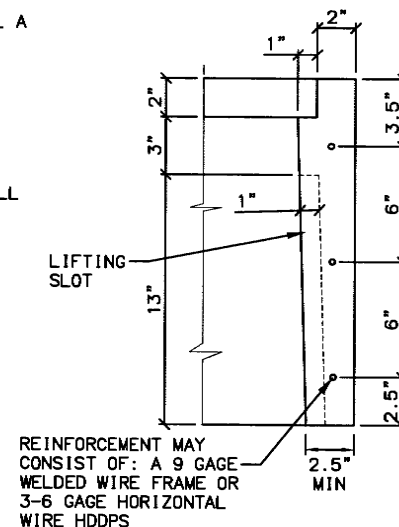
TYPE 1A LOAD CENTER

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DATE
TIME
9/30/2013 2:08 PM
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DRAWING LOCATION
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"LIGHTING" OR "TRAFFIC"
AS REQUIRED (SEE NOTE 4)

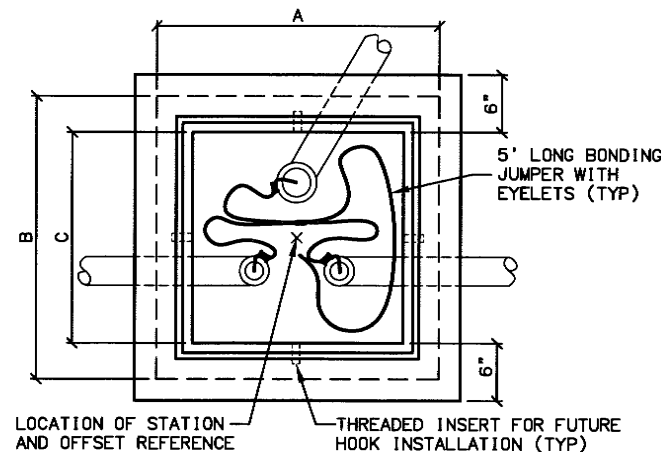


SECTION A-A

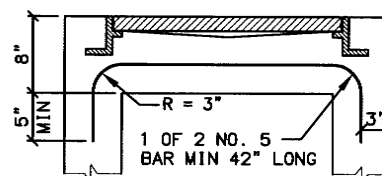


DETAIL A

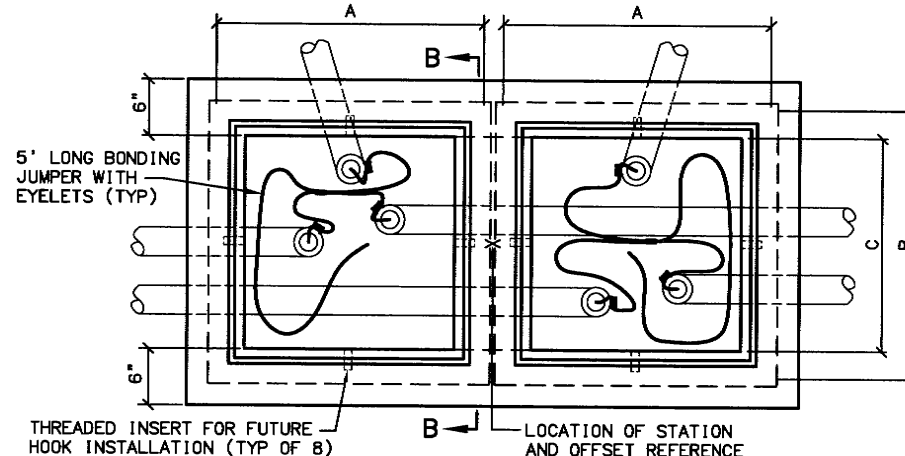
TYPE IA JUNCTION BOX



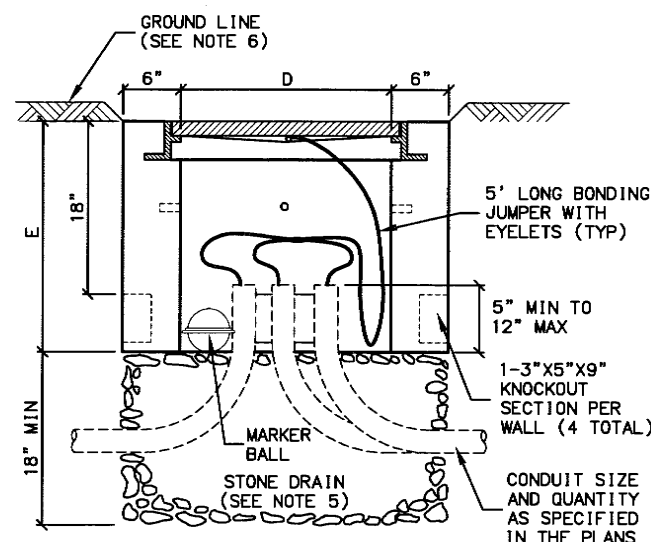
PLAN



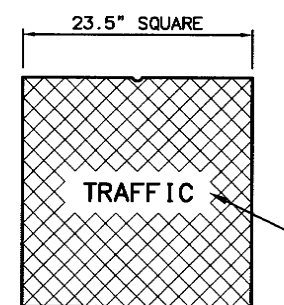
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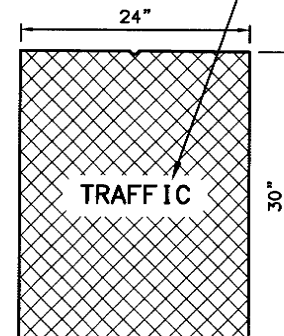
PLAN



TYPE II JUNCTION BOX
ELEVATION

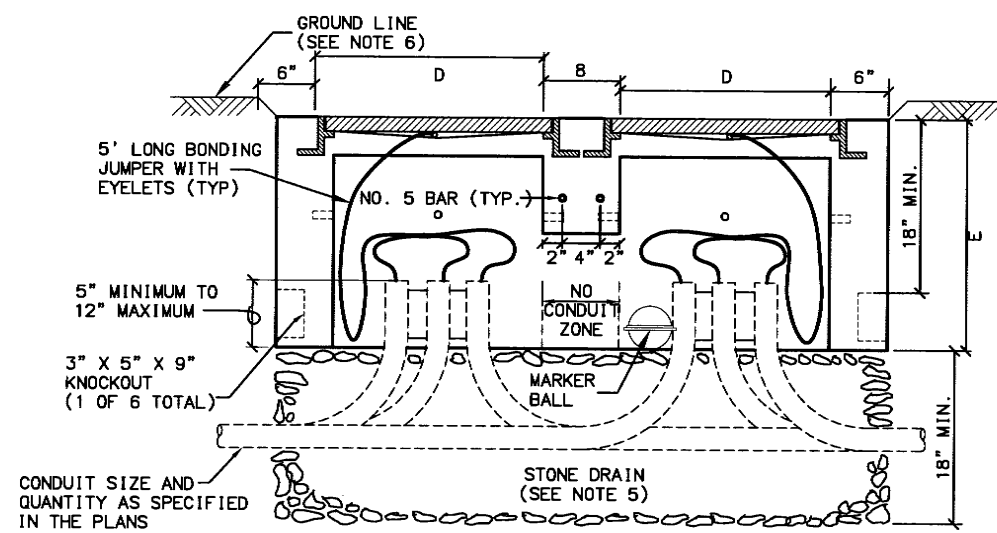


LID FOR TYPE II
& III J-BOXES



LID FOR TYPE IV
J-BOXES

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



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

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08/20/2013	CENTRAL REGION DETAIL - REPLACES STD. DWG. L-23.01, 1-34.01	

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	P3	P23

NOTES:

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

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

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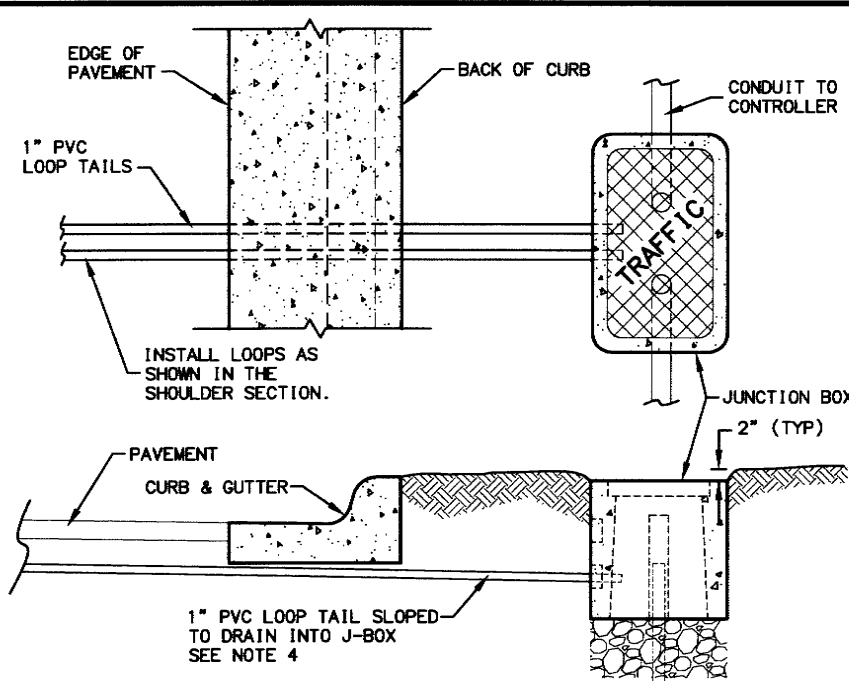
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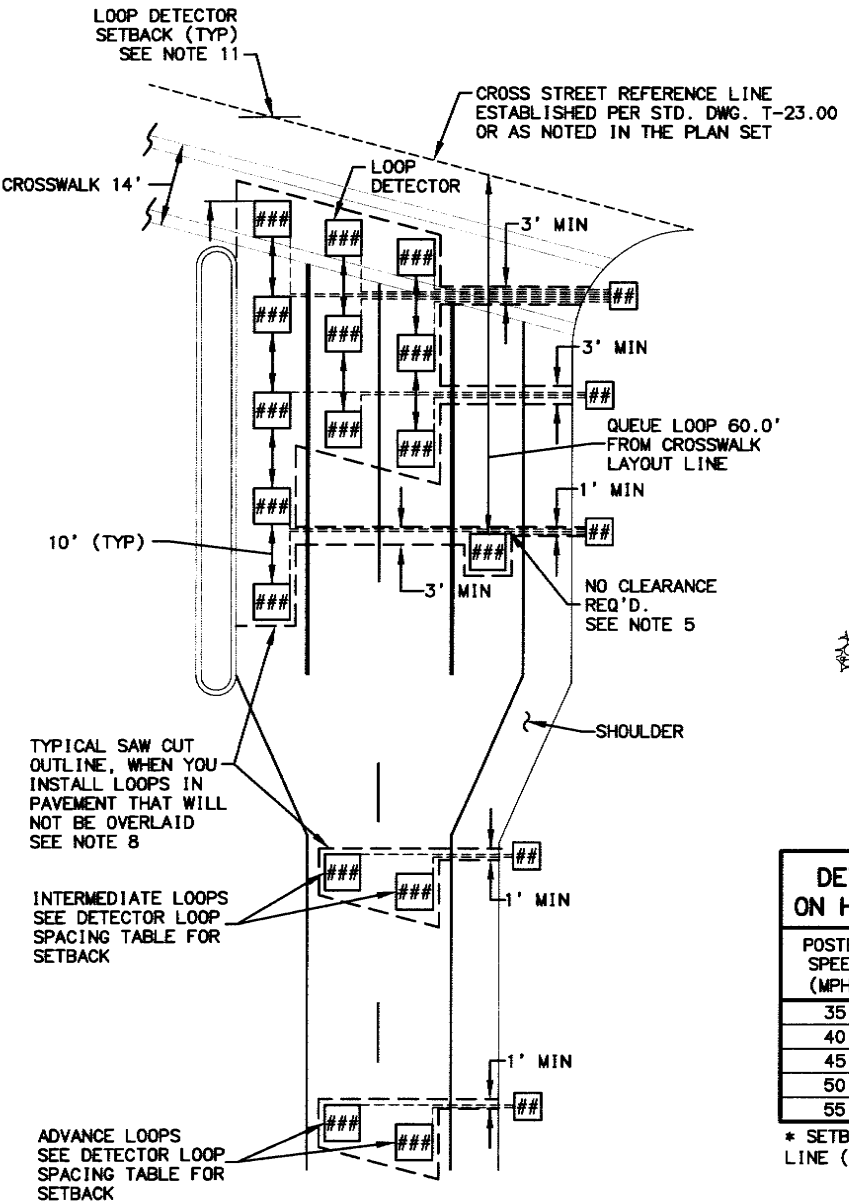
JUNCTION BOX DETAILS

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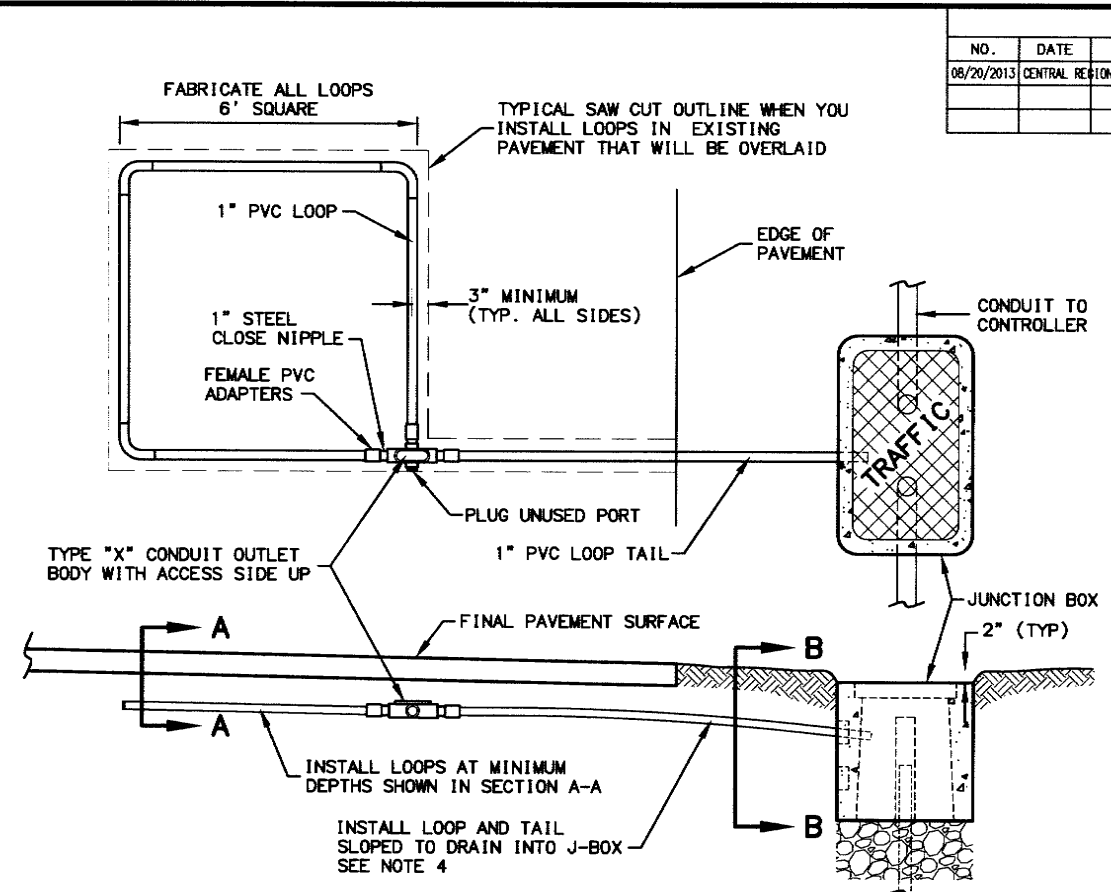


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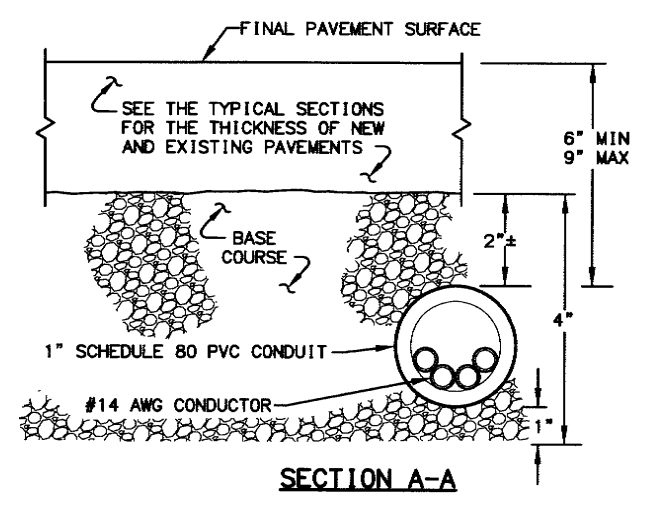


TYPICAL LOOP SETBACKS

MEASURE THE SETBACKS FROM THE CROSS STREET REFERENCE LINE ALONG THE CENTER OF EACH LANE

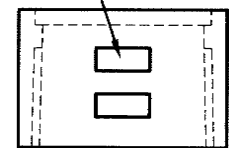


SHOULDER SECTION

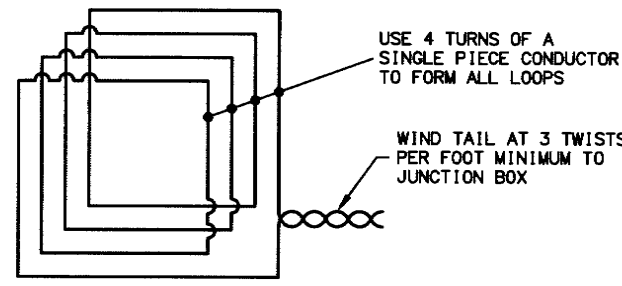


SECTION A-A

2 KNOCKOUTS CENTERED ON ONE SIDE 1 1/2" DEEP X 3" HIGH X 7" WIDE FOR LOOP DETECTOR INSTALLATION



SECTION B-B



LOOP WIRING DETAIL

TYPICAL PVC CONDUIT ENCASED LOOP DETECTOR INSTALLATION

DETECTOR LOOP SPACING ON HIGH SPEED APPROACHES

POSTED SPEED (MPH)	ADVANCED LOOP *	INTERMEDIATE LOOP *
35	295	170
40	335	190
45	380	210
50	420	235
55	460	255

* SETBACK FROM CROSSWALK LAYOUT LINE (FEET)

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ALASKA	59770	2014	P4	P23

NOTES:

1. EACH LOOP DETECTOR SHALL CONSIST OF A SINGLE PIECE OF #14 AWG CONDUCTOR INSTALLED IN ONE INCH SCHEDULE 80 PVC CONDUIT. BUILD ALL LOOPS 6.0 FEET SQUARE, SOLVENT WELDING ALL PVC TO PVC JOINTS. USE TYPE X OUTLET BODIES MADE OF HOT DIP GALVANIZED STEEL TO JOIN THE LOOPS AND TAILS.
2. INSTALL 4 TURNS OF CONDUCTOR IN ALL LOOPS AND PROVIDE TAILS THAT EXTEND TO THE JUNCTION BOX SPECIFIED ON THE PLANS. USE #14 AWG CONDUCTOR IN A POLYETHYLENE TUBE CONFORMING TO INSA SPECIFICATION 51-5. WIND THE TAIL CONDUCTORS TOGETHER AT A RATE OF 3 TWISTS PER FOOT.
3. INSTALL ALL LOOP DETECTORS BEFORE OVERLAYING THE EXISTING PAVEMENT OR PAVING THE NEW ROADWAY.
4. INSTALL ALL LOOP DETECTORS SLOPED TO DRAIN INTO THE JUNCTION BOX THE LOOP TAIL ENTERS. IF YOU CAN NOT INSTALL THE LOOP TO DRAIN INTO THE J-BOX, DRILL FIVE 1/4" WEEP HOLES ON 1 FOOT CENTERS IN THE UNDERSIDE OF THE CONDUIT AT THE LOW SPOT.
5. YOU MAY INSTALL A LOOP TAIL IMMEDIATELY ADJACENT TO A LOOP AND OTHER LOOP TAILS. LOOP TAILS SHALL NOT CROSS LOOP CONDUITS.
6. TEST ALL LOOP DETECTORS FOR CONTINUITY AND INSULATION INTEGRITY BEFORE SEALING THE LOOPS UNDER THE FINAL LIFT OF ASPHALT. PROVIDE THE ENGINEER A WRITTEN RECORD OF FIELD TESTING INCLUDING: CONTINUITY, INSULATION RESISTANCE AND INDUCTANCE TESTS AS REQUIRED IN SECTION 660-3.01(7) OF THE STANDARD SPECIFICATION FOR HIGHWAY CONSTRUCTION.
7. WHEN INSTALLING LOOP DETECTORS IN EXISTING PAVEMENT, CUT THE ASPHALT WITH A SAW AND REMOVE ALL ASPHALT WITHIN THE SAW CUT. MATCH EXISTING PAVEMENT THICKNESS WHEN REPAIRING THE CUTOUT.
8. WHERE EXISTING PAVEMENT WILL NOT BE OVERLAID, CUT THE PAVEMENT WITH A SAW AS FOLLOWS:
 - A. REMOVE ALL PAVEMENT FROM THE LENGTH OF THE FIVE LOOP PRESENCE FIELDS.
 - B. ENCLOSE ALL LOOPS THAT ENTER A COMMON JUNCTION BOX WITHIN A TRAPEZOIDAL SAW CUT.
 - C. CUT TO WITHIN 1 FOOT OF THE LANE AND EDGE LINES, PRESERVING THESE PAVEMENT MARKINGS;
 - D. REMOVE THE ASPHALT TO THE LIP OF THE GUTTER WHERE THERE ARE NO EDGE LINES;
 - E. CUT ACROSS LANE LINES WHEN LOOPS IN ADJACENT LANES ARE SIDE BY SIDE;
 - F. CUT TRENCHES CROSSING A LANE A MINIMUM OF 3 FEET WIDE; AND
 - G. CUT TRENCHES CROSSING A SHOULDER A MINIMUM 1 FOOT WIDE.
9. HEAT AND TACK COAT THE EDGES OF EXISTING PAVEMENT BEFORE PAVING THE CUTOUTS. COMPACT THE ASPHALT MIXTURE WITH A SELF-PROPELLED STEEL WHEELED ROLLER. FURNISH ASPHALT MIX THAT CONFORMS TO SECTION 401 OF THE SPECIFICATIONS, AND IS APPROVED BY THE ENGINEER.
10. MAINTAIN THE REPLACEMENT ASPHALT MIX ABOVE A TEMPERATURE OF 225°F UNTIL THE TIME OF APPLICATION; IF NECESSARY, STORE THE MIX IN AN INSULATED BOX TO MAINTAIN THIS MINIMUM TEMPERATURE.
11. TO ESTABLISH THE FRONT BAR LOOP DETECTOR SETBACKS MEASURE 14.0' FROM THE CROSS STREET REFERENCE LINE. ESTABLISH THE CROSS STREET REFERENCE LINE ACCORDING TO STANDARD DRAWING T-23.00. STATION AND OFFSET OF LOOPS ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).

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STATE OF ALASKA
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**SEWARD HIGHWAY: 92ND AVENUE
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**LOOP DETECTOR INSTALLATION
DETAILS**

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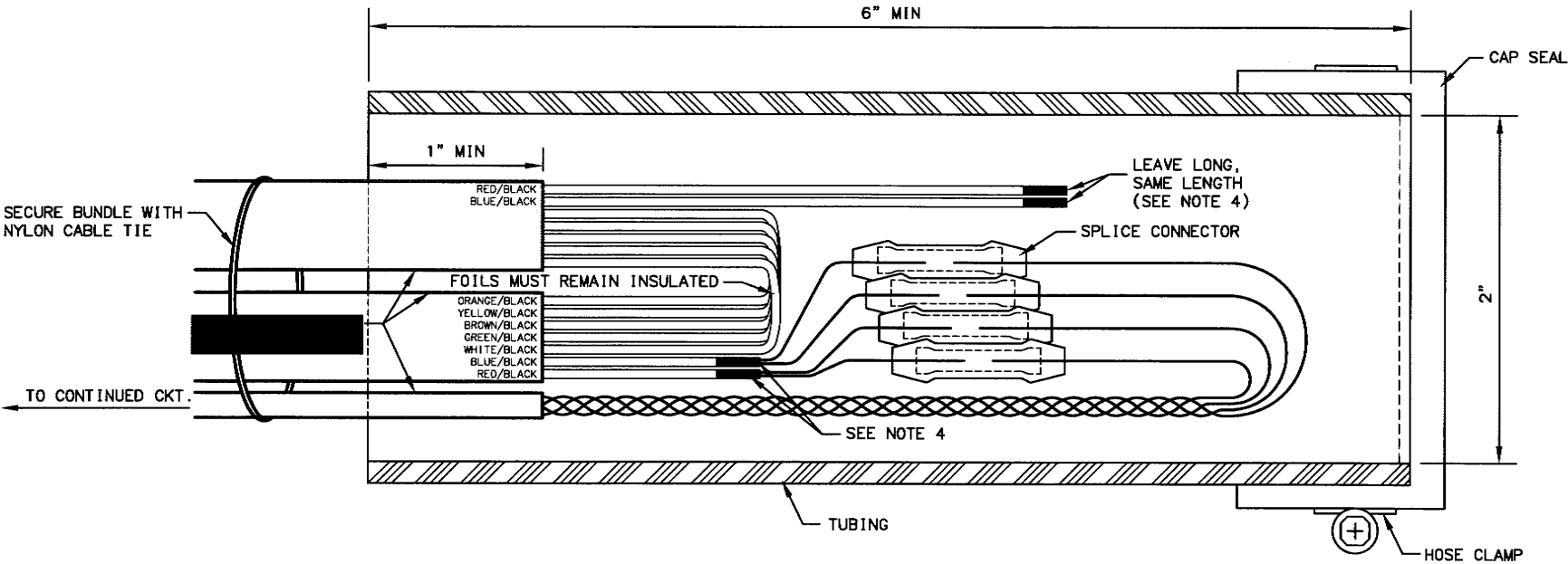
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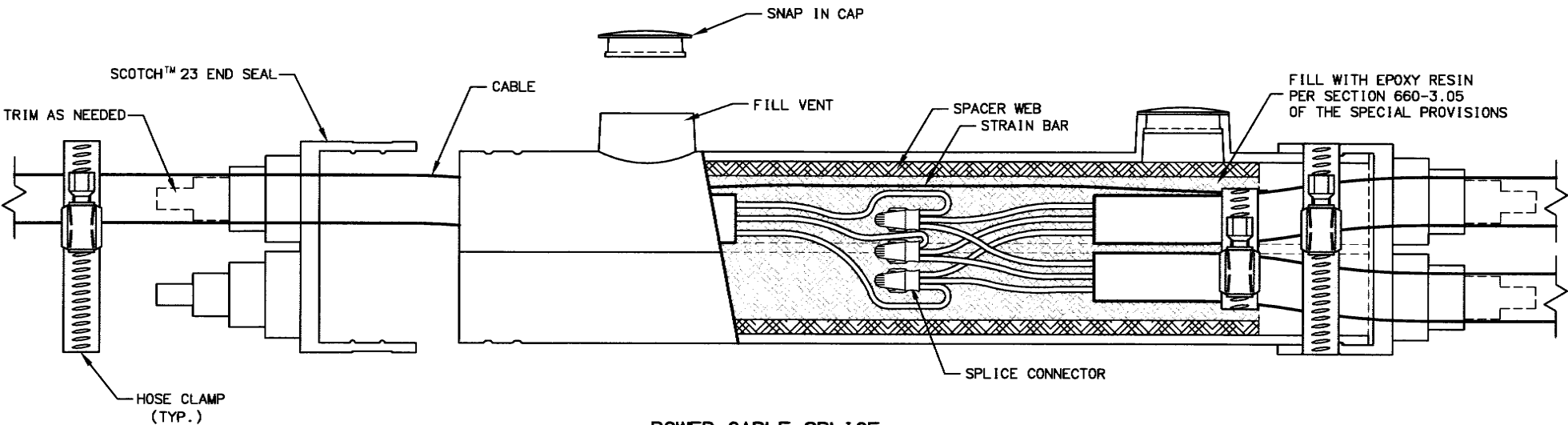
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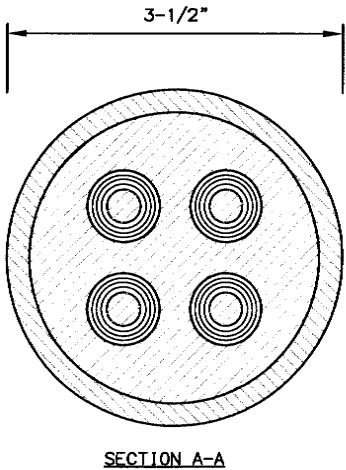
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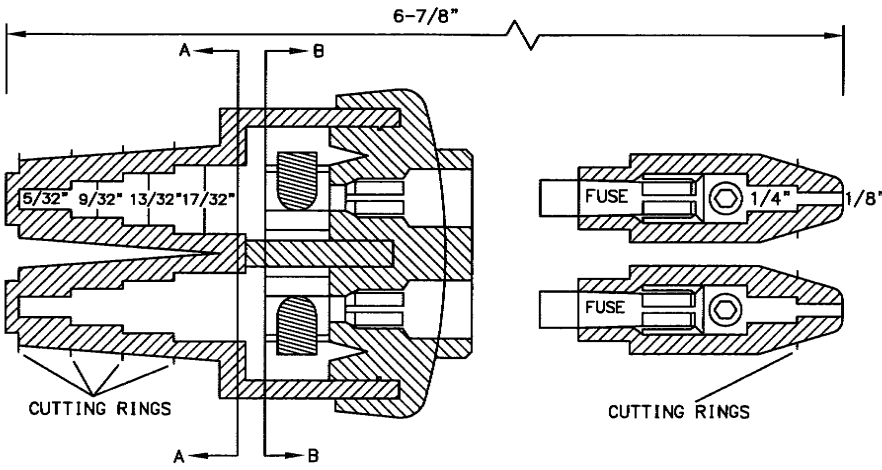
LOOP LEAD-IN SPLICE



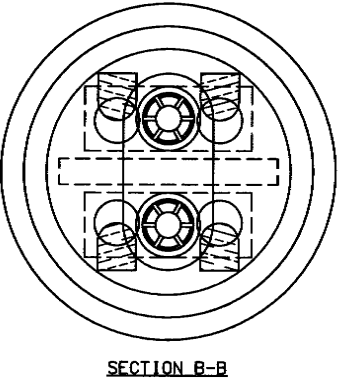
POWER CABLE SPLICE



SECTION A-A



DOUBLE FUSED CONNECTOR



SECTION B-B

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

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

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SEWARD HIGHWAY: 92ND AVENUE
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SPLICE DETAILS

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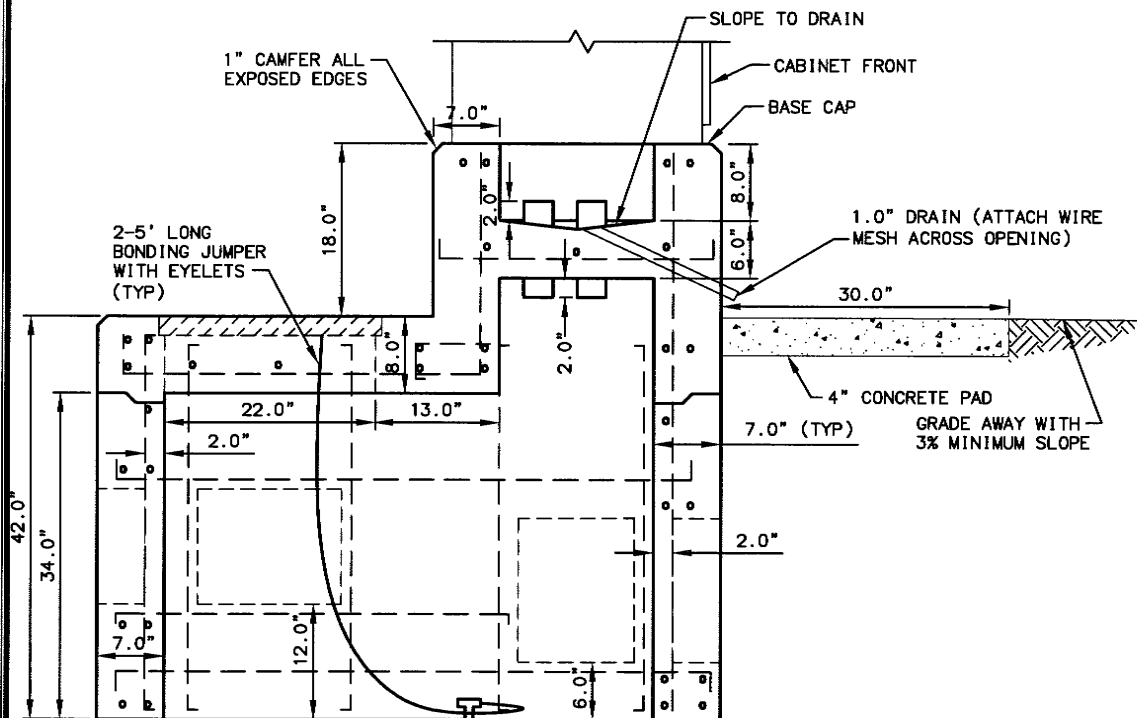
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ALASKA	59770	2014	P6	P23

NOTES:

- ANCHOR BOLTS SHALL NOT PROTRUDE MORE THAN 1.5" ABOVE THE TOP OF THE FOUNDATION. ANCHOR BOLT DIMENSIONS SHALL BE AS SPECIFIED BY THE CABINET MANUFACTURER.
- SEAL UNUSED CONDUIT STUBS WITH WATERTIGHT CAPS. SEAL STUBS CARRYING CONDUCTORS WITH WATERTIGHT SEALING BUSHINGS DESIGNED TO SEAL AROUND CONDUCTORS AND AGAINST THE CONDUIT WALLS.
- ROUTE THE FIVE FOOT COPPER GROUNDING JUMPER THROUGH THE 2" PIPE NIPPLE AND ATTACH IT TO THE GROUNDING BUSHING ON THE FEEDER CONDUIT.
- STOP HORIZONTAL & VERTICAL STEEL AT THE BLOCK-OUT PANELS & THE JOINT USING 90 DEGREE HOOKS. USE 2 EXTRA #4 HORIZONTAL & VERTICAL BARS. ALL SIDES AS SHOWN.
- INSTALL TRAFFIC CONTROLLER WITHIN 1-DEGREE OF PLUMB.

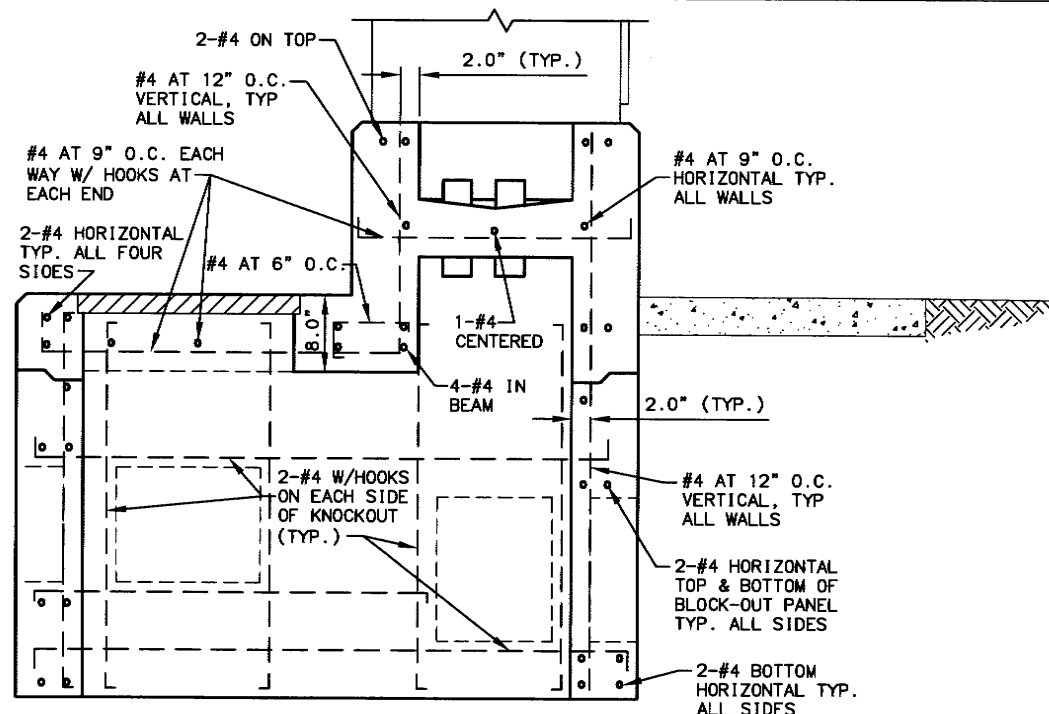
MATERIAL PROPERTIES

CONCRETE	CLASS A	F'c = 4000 psi
REINFORCING STEEL	AASHTO M31 GRADE 60	Fy = 60 ksi
CONDUIT	RMC	
BONDING JUMPERS	3M-25T BBE6 OR EQUAL	



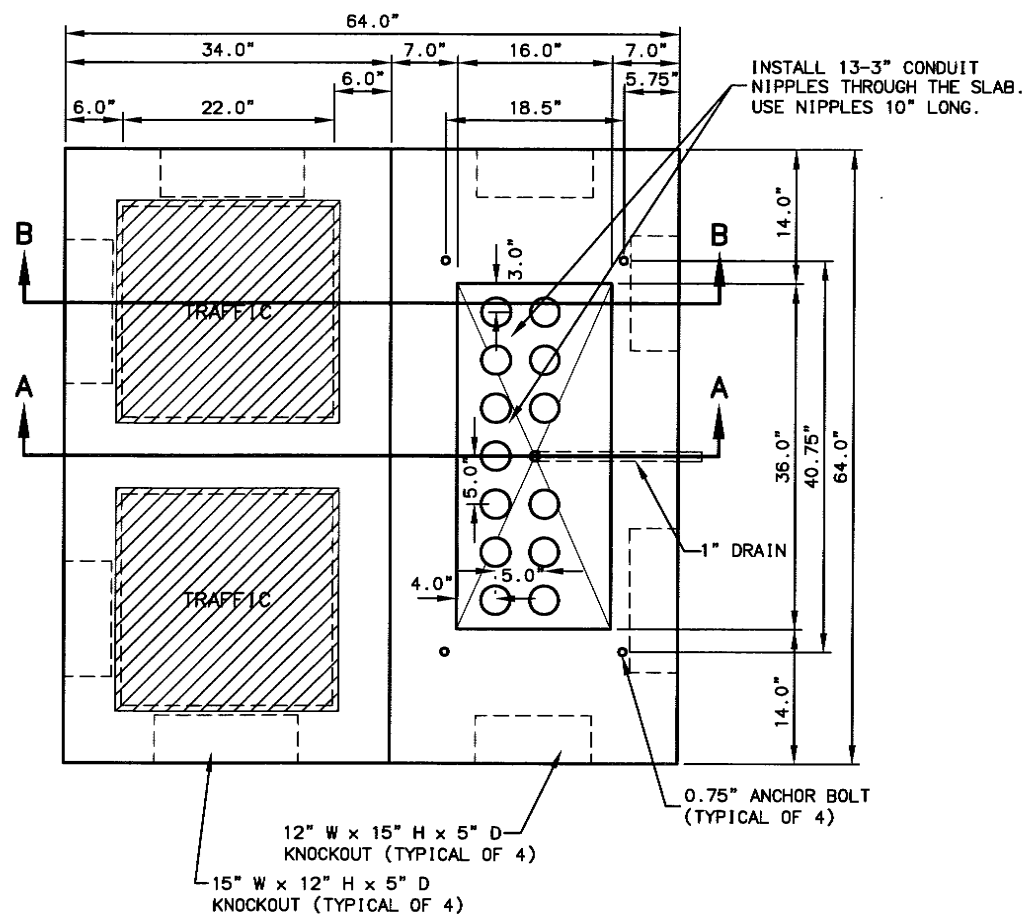
SECTION A-A

NOTE: SEE SECTION B-B FOR REBAR DETAILS

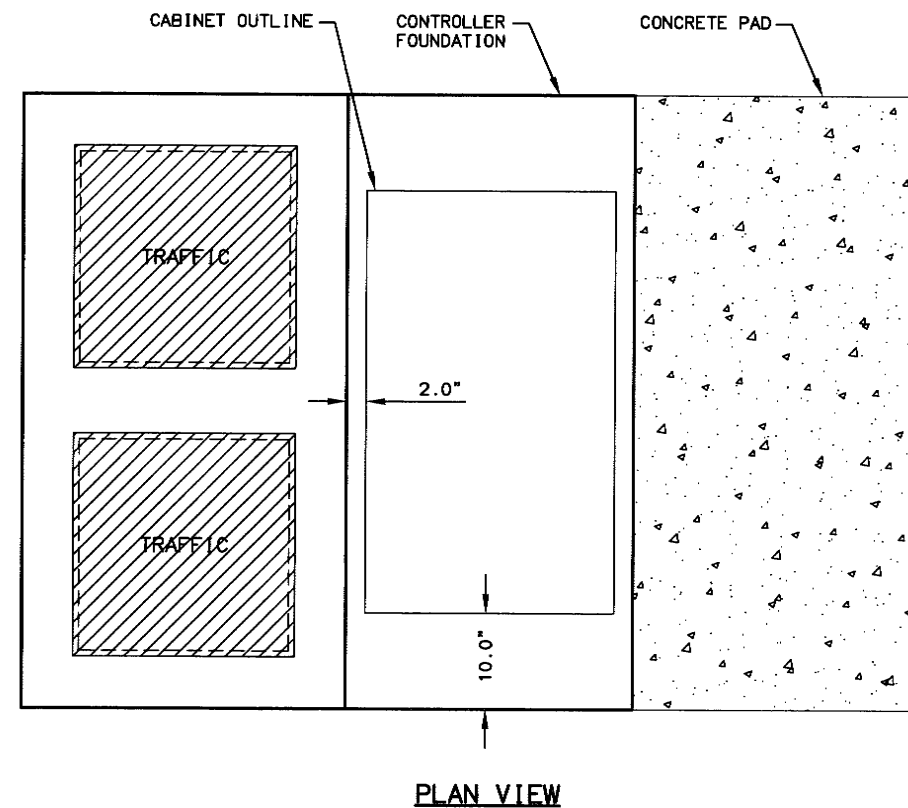


SECTION B-B

NOTE: SEE SECTION A-A FOR DIMENSIONAL DETAILS



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



PLAN VIEW

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SEWARD HIGHWAY: 92ND AVENUE
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TS2 CONTROLLER CABINET
FOUNDATION DETAILS

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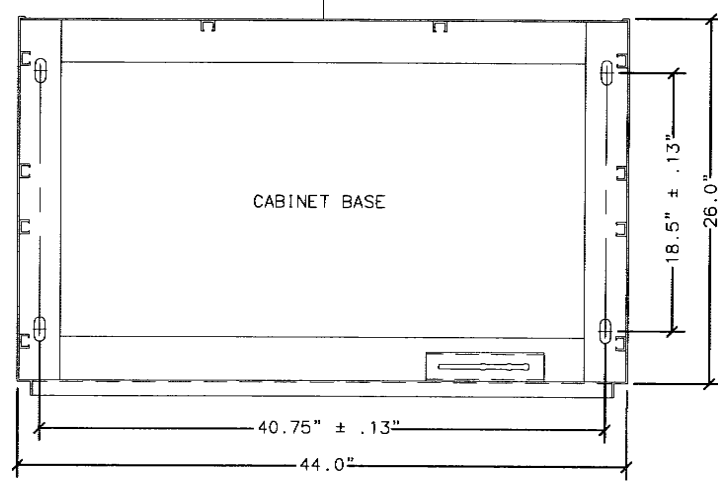
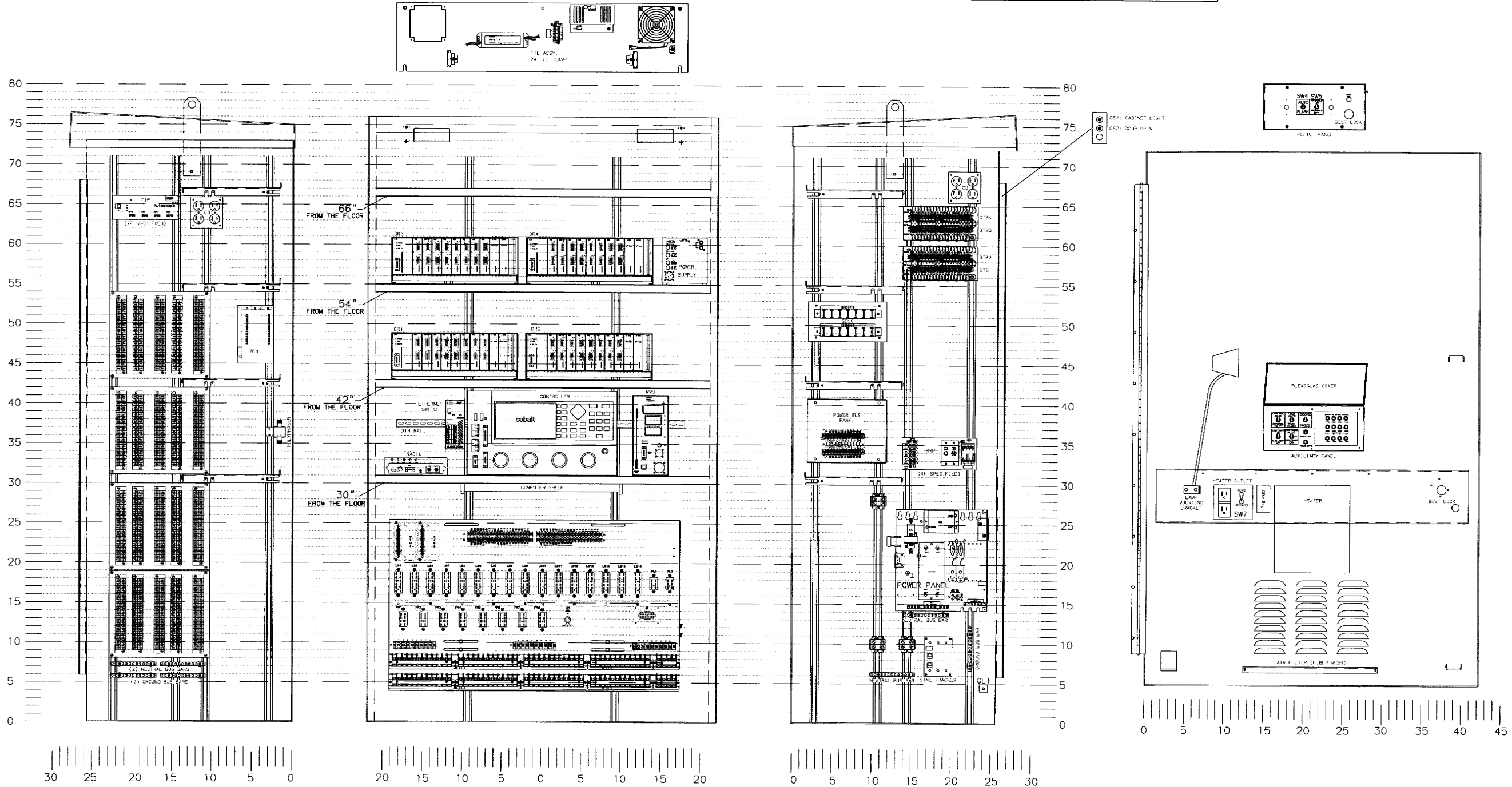
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- NOTES:**
1. PROVIDE SPARE SDLC CABLE IN CABINET.
 2. PROVIDE FULLY FUNCTIONING FACTORY WIRED CABINET.
 3. PROVIDE FOUR SHELVES INSIDE THE CABINET.

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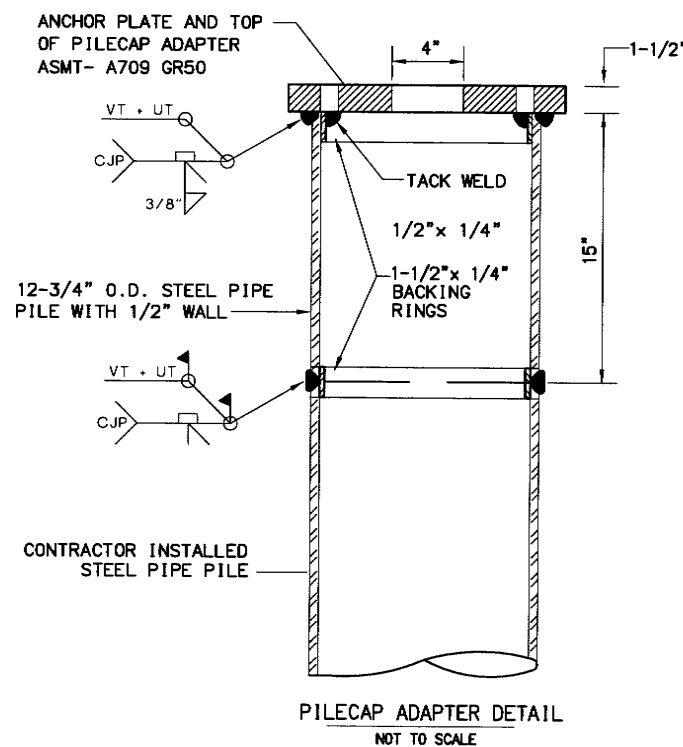
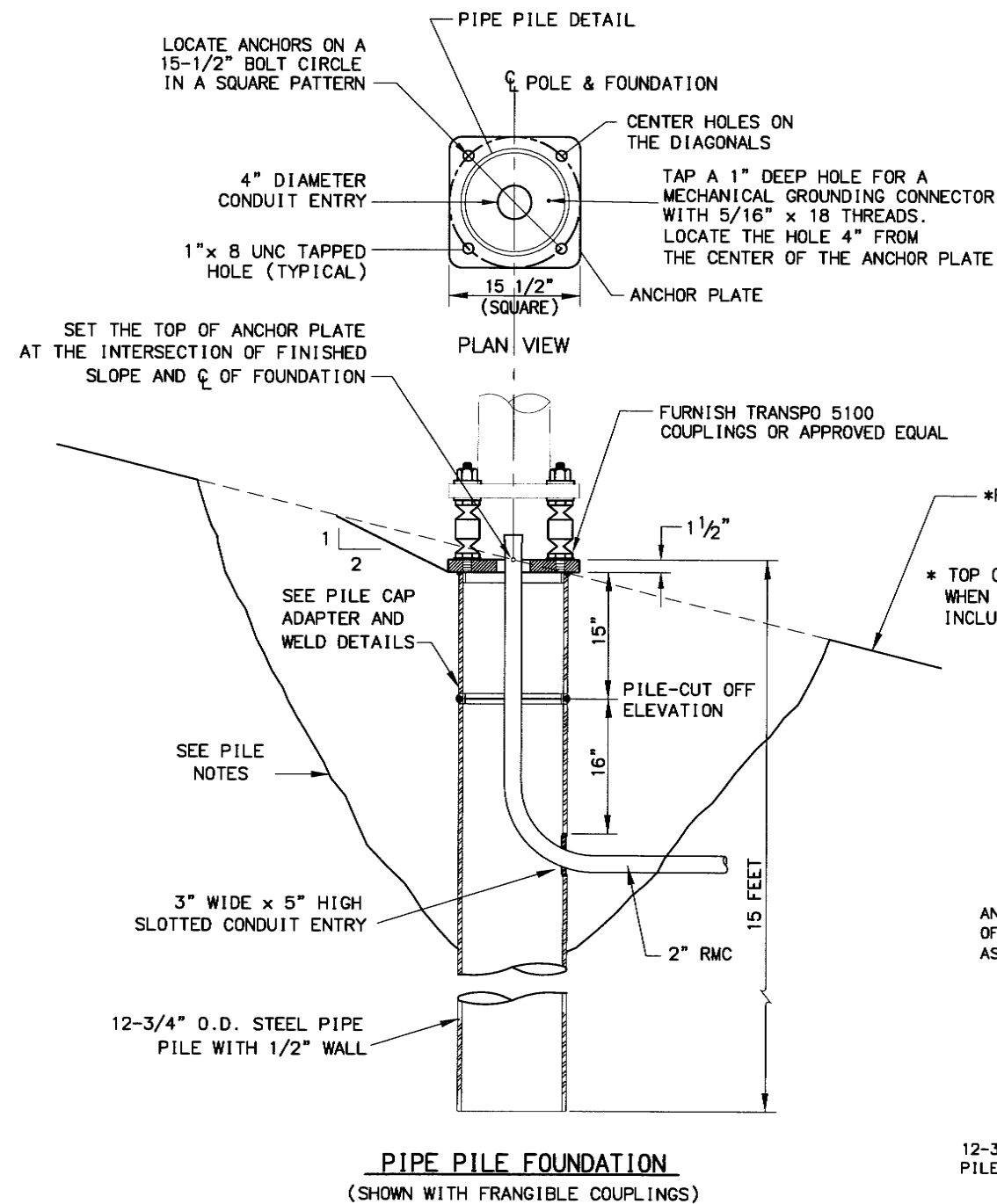
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**TS2-SIZE 7 CONTROLLER
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PIPECAP ADAPTER AND WELD DETAILS

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DESIGN NOTES:

DESIGN STANDARD: 2001 STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS WITH 2006 INTERIM.

DESIGN LOADS: 5-KIPS AXIAL, 7.5-KIPS SHEAR, 40-KIP-FT MOMENT.

CONSTRUCTION STANDARD: STATE OF ALASKA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, 2004 ENGLISH EDITION WITH SPECIAL PROVISIONS.

MATERIAL REQUIREMENTS

STRUCTURAL STEEL PLATE	ASTM A709 GRADE 50	Fy = 50 ksi
STEEL PIPE PILE	ASTM A709, GRADE 50 T3	Fy = 50 ksi
	API 5L GRADE X 42	Fy = 42 ksi

NOTES:

- FURNISH STEEL PIPE PILES THAT CONFORM TO THE MATERIAL REQUIREMENTS AND SECTION 660, 715 AND 740 OF THE SPECIFICATIONS. NO SPLICES ARE ALLOWED BELOW THE PILECAP ADAPTER.
- DRIVE PILES OPEN ENDED. COMPLETE PILE WORK ACCORDING TO SECTIONS 505, 660 AND 715 OF THE SPECIFICATIONS. REMOVE AND REINSTALL PILES OUT OF PLUMB MORE THAN 1:40.
- FRESH HEAD THE TOP OF PILES IN A LEVEL PLANE AND CUT THE CONDUIT ENTRANCE HOLE AFTER DRIVING THE PILE. NOTE; ONLY MECHANICAL OR PLASMA CUTTER MEANS ARE PERMITTED. OXY-FUEL CUTTING IS PROHIBITED.
- FURNISH ONLY SHOP FABRICATED PILECAP ADAPTERS. INCLUDE STAMPED ENGINEERING CALCULATIONS, DRAWINGS, MILL CERTIFICATIONS AND WELDING PLANS FOR PILECAP ADAPTERS AND THE PILECAP ADAPTER TO PILE WELD. WELDING SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST EDITION OF THE AWS D1.1, STRUCTURAL WELDING CODE-STEEL AND THE SPECIFICATIONS.
- AT EACH FOUNDATION, EXCAVATE A CONE SHAPED WORK HOLE 6.5' DIAMETER AT THE SURFACE DOWN TO 1 FOOT BELOW THE CONDUIT HOLE SUBJECT TO THE REQUIREMENTS AND RESTRICTIONS OF OSHA 1926.652. AFTER CUTTING THE CONDUIT ENTRANCE HOLE AND WELDING ON THE PILECAP ADAPTER, BACKFILL AND COMPACT THE WORK HOLE IN 8" LIFTS WITH A SOIL-CEMENT MIXTURE, CONSISTING OF 2 SACKS OF PORTLAND CEMENT PER CUBIC YARD OF SOIL. SUFFICIENT COMPACTIVE EFFORT WILL BE DETERMINED BY THE ENGINEER.
- WAIT AT LEAST 3 DAYS AFTER BACKFILLING THE WORK HOLE BEFORE ERECTING THE LUMINAIRE POLE.
- TERMINATE CONDUIT(S) 3" ABOVE THE TOP OF THE ANCHOR PLATE. INSTALL A GROUNDING BUSHING ON THE END OF THE RIGID METAL CONDUIT AND ESTABLISH A BOND WITH THE ANCHOR PLATE.

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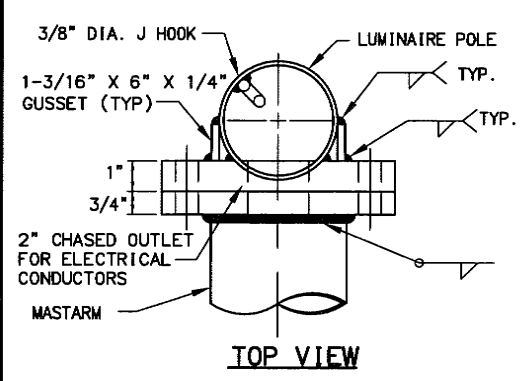
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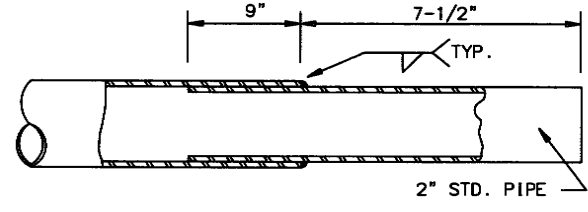
PIPE PILE FOUNDATION

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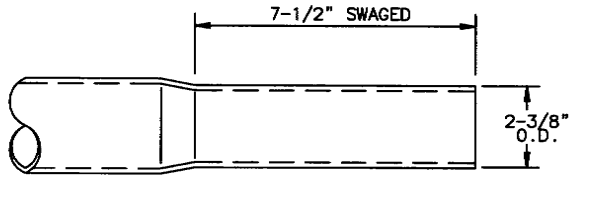
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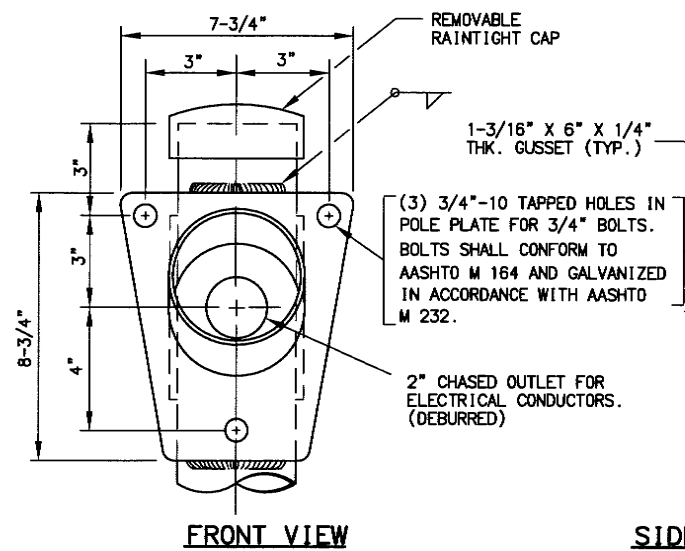


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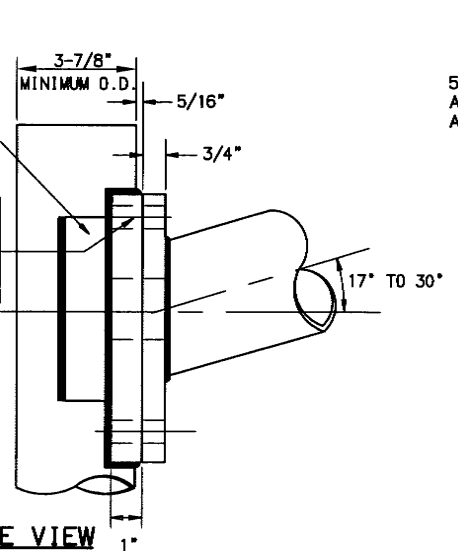


OPTIONAL SWAGED TENON

END OF MASTARM DETAIL

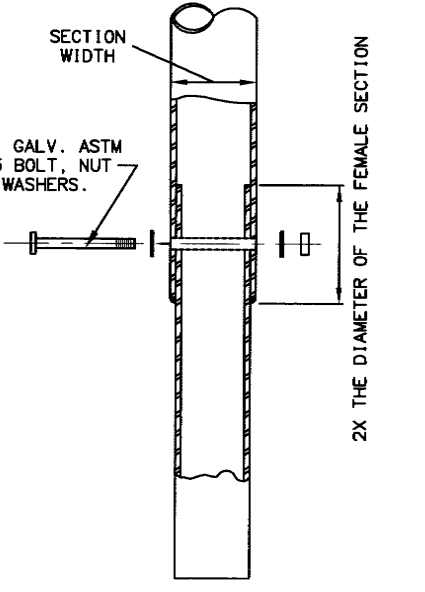


FRONT VIEW

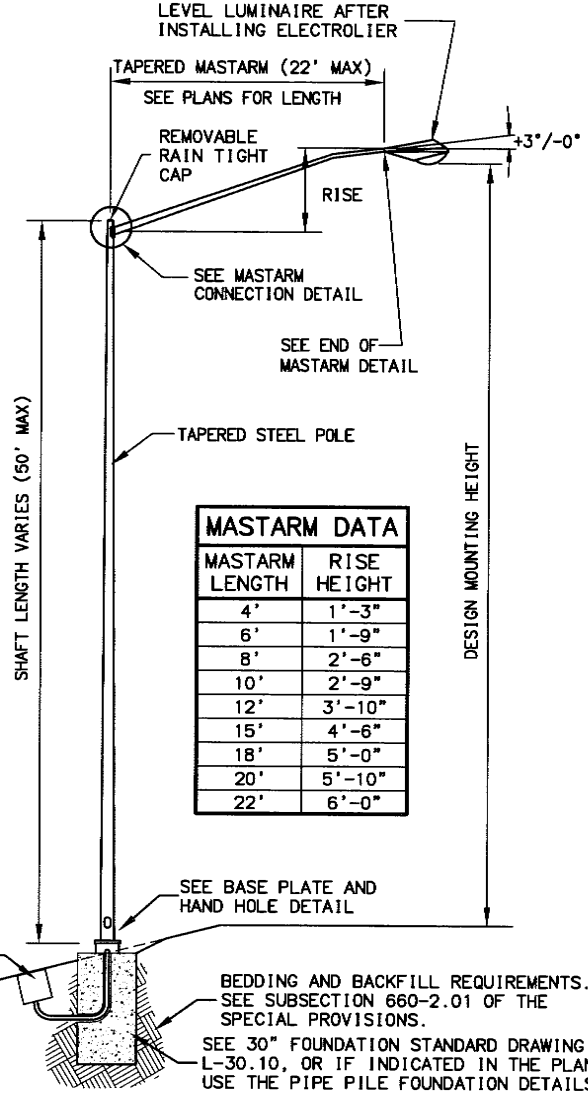


SIDE VIEW

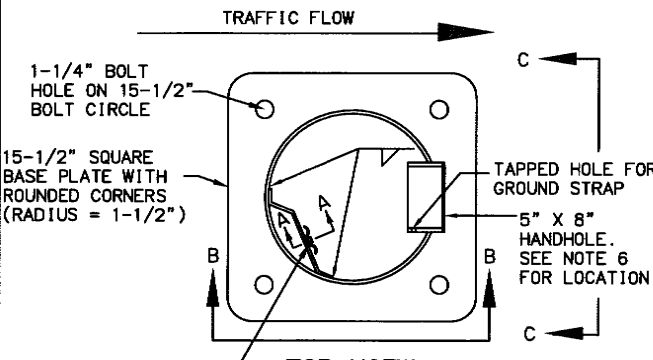
MASTARM CONNECTION DETAIL



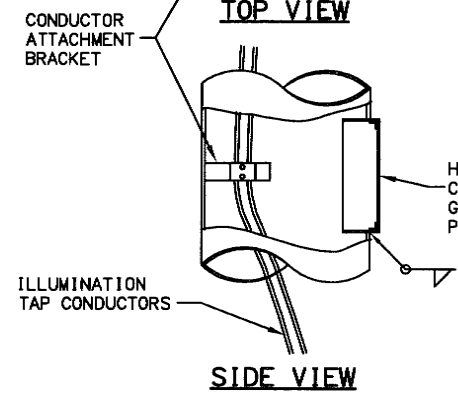
POLE CONNECTION DETAIL



MASTARM DATA	
MASTARM LENGTH	RISE HEIGHT
4'	1'-3"
6'	1'-9"
8'	2'-6"
10'	2'-9"
12'	3'-10"
15'	4'-6"
18'	5'-0"
20'	5'-10"
22'	6'-0"

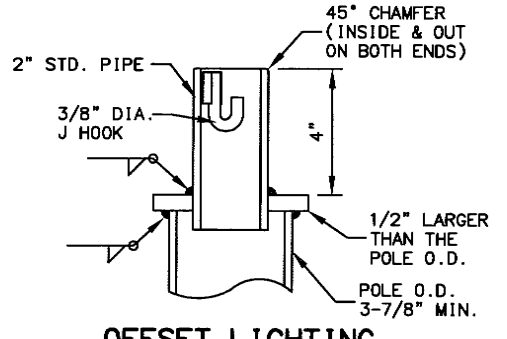


TOP VIEW

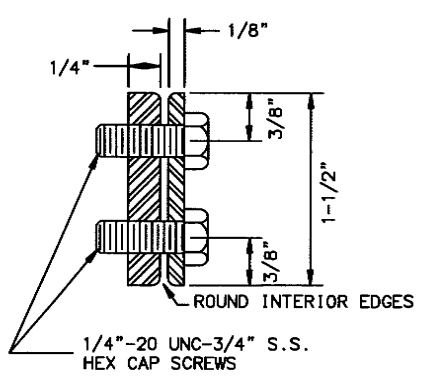


SIDE VIEW

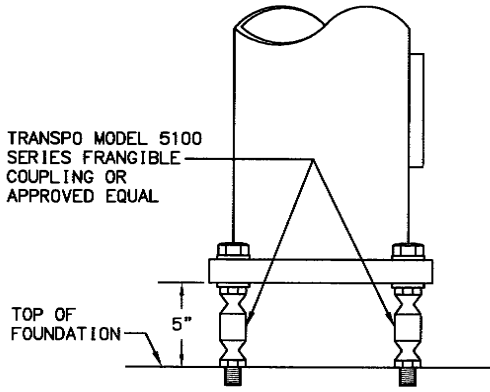
BASE PLATE AND HAND HOLE DETAIL



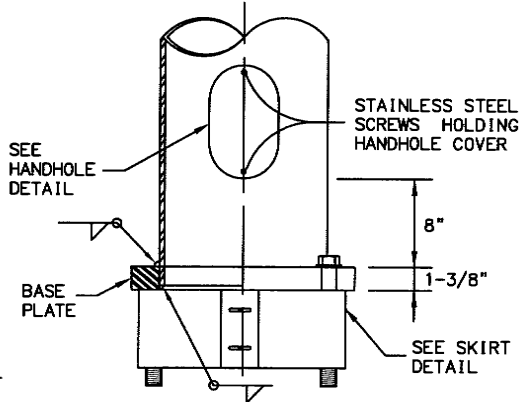
OFFSET LIGHTING STANDARD POLE TOP DETAIL (CUTAWAY FOR CLARITY)



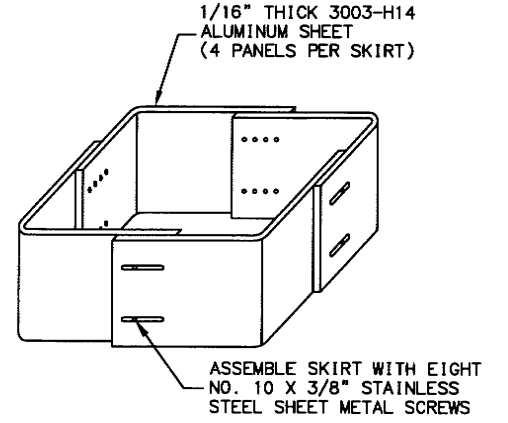
SECTION A-A



VIEW B-B



VIEW C-C



SKIRT DETAIL

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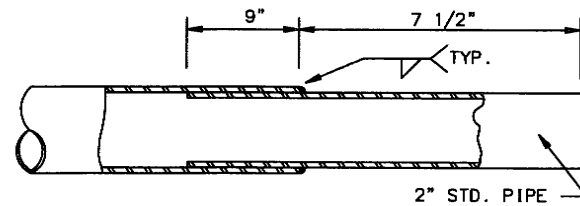
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

LIGHTING STANDARD 1

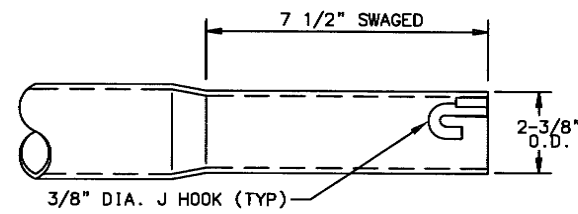
NOTES:

1. DESIGN AND FABRICATE ALL SHAFTS TO SUPPORT A MASTARM 22 FEET LONG WITH LUMINAIRE. ASSUME EACH LUMINAIRE WEIGHS 55 POUNDS AND HAS AN EFFECTIVE PROJECTED AREA OF 1.2 SQUARE FEET. WITH THIS DEAD LOAD, LIMIT THE ANGULAR ROTATION TO THE POLE TOP 1° 40" MAXIMUM.
2. WELD SIZE TO BE DETERMINED BY THE MANUFACTURER.
3. MOUNTING HEIGHT, IF SPECIFIED IN THE PLANS, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE ROADWAY. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER SLOPE AND/OR OFFSET VARIES.
4. MINIMUM OUTSIDE DIAMETER AT THE TOP OF POLE EQUALS 3-7/8". POLE DIAMETER SHALL TAPER UNIFORMLY FROM THE TOP OF THE POLE TO THE BASE PLATE, WITH A MAXIMUM TAPER RATE OF 0.14" PER FOOT.
5. APPLY AN ANTI-SEIZING COMPOUND TO ALL THREADED SURFACES, INCLUDING THOSE IN THE ANCHOR PLATE AND ON THE COUPLINGS.
6. MASTARM RISE MAY VARY ±0.5' FROM THE VALUES LISTED IN THE TABLE.
7. LOCATE THE HANDHOLD AT 90 DEGREES TO THE MASTARM ON THE SIDE OF POLE DOWNSTREAM FROM TRAFFIC FLOW.
8. FURNISH ALL POLES WITH A J-HOOK TO SUPPORT THE ILLUMINATION TAP CONDUCTORS. FURNISH ALL MASTARM POLES WITH A REMOVABLE RAIN TIGHT CAP.
9. MOUNT LIGHTING STANDARDS UPON TRANSPO MODEL NO. 5100 FRANGIBLE COUPLINGS AND TRANSPO TYPE B FEMALE ANCHORS, OR APPROVED EQUAL.
10. INSTALL ALL COMPONENTS OF THE BREAKAWAY SUPPORT SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
11. FABRICATE THE SKIRT FROM FOUR PIECES OF 1/16" THICK 3003 H-14 ALUMINUM SHEET. BEND EACH PLATE TO PROVIDE CORNERS WITH A 3/4" RADIUS. ASSEMBLE THE SKIRT WITH #10 X 3/8" SELF TAPPING STAINLESS SCREWS OR POP RIVETS. THE ASSEMBLED SKIRT MEASURES ABOUT 12-3/4" SQUARE.
12. A JUNCTION BOX IS REQUIRED AT EACH NEW ELECTROLIER. INSTALL THE JUNCTION BOX IMMEDIATELY BEHIND THE FOUNDATION APPROXIMATELY 7' FROM POLE UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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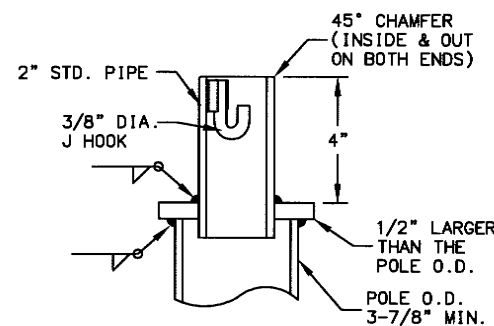


TENON

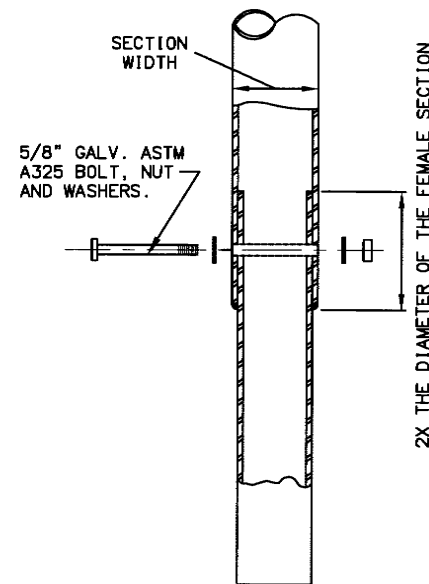


OPTIONAL SWAGED TENON

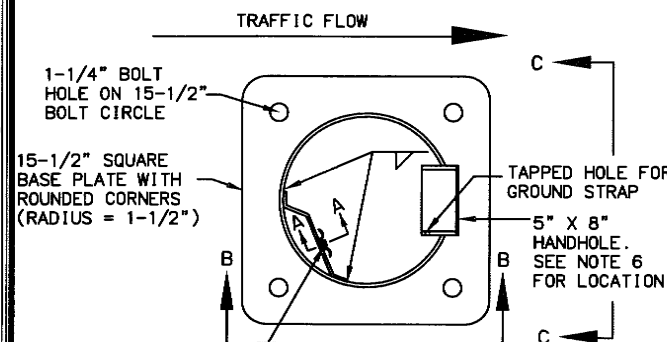
END OF MASTARM DETAIL



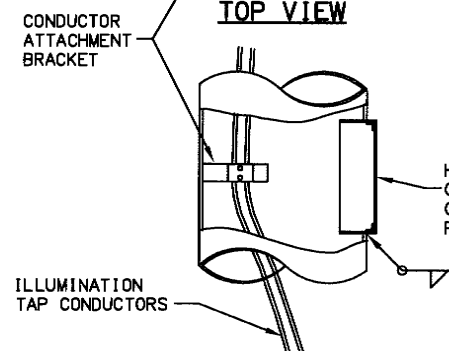
OFFSET LIGHTING
STANDARD POLE TOP DETAIL
(CUTAWAY FOR CLARITY)



POLE CONNECTION DETAIL

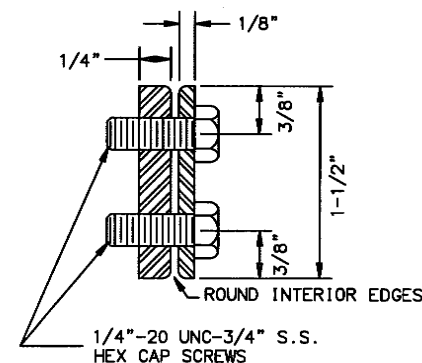


TOP VIEW

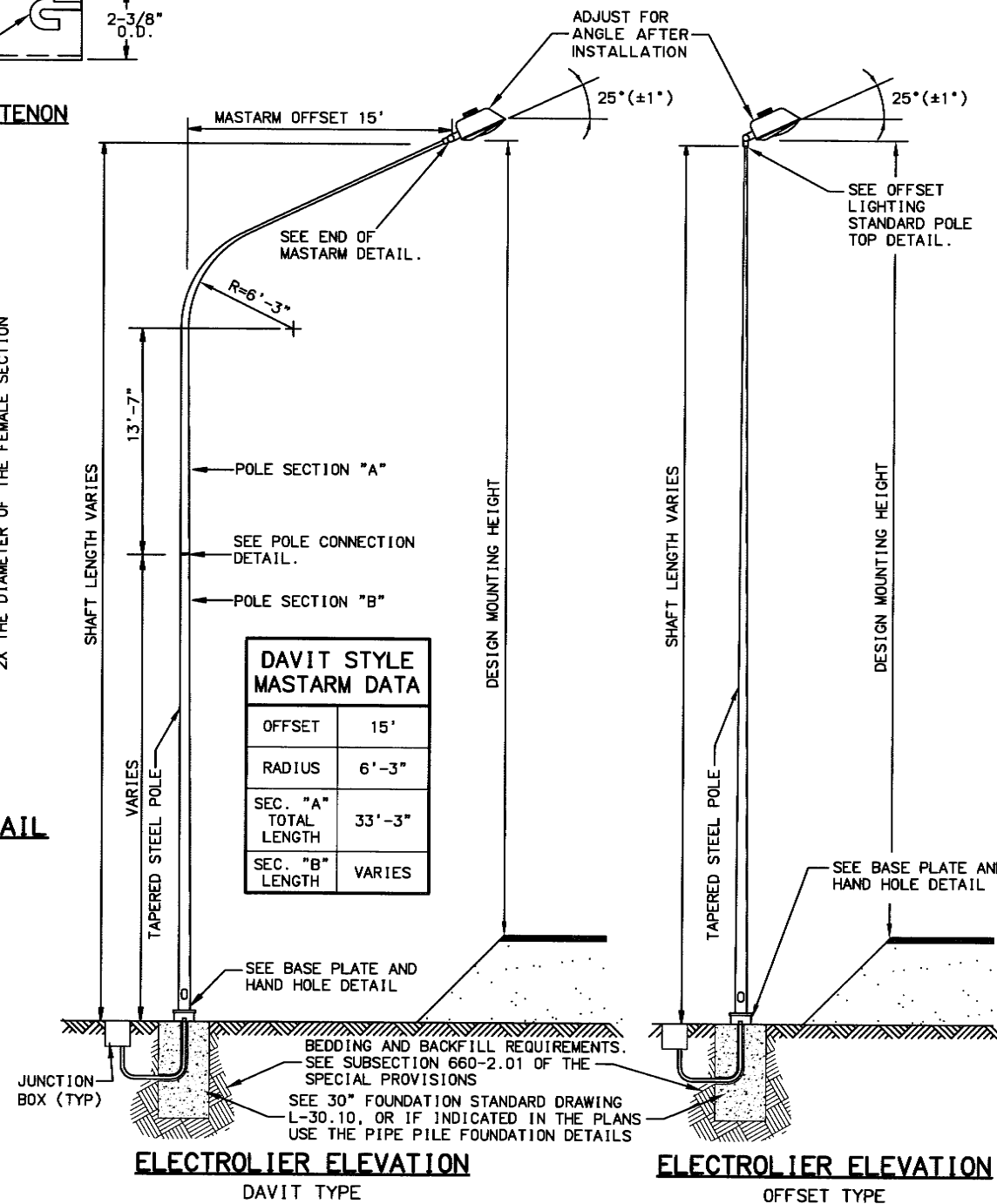


SIDE VIEW

BASE PLATE AND HAND HOLE DETAIL



SECTION A-A

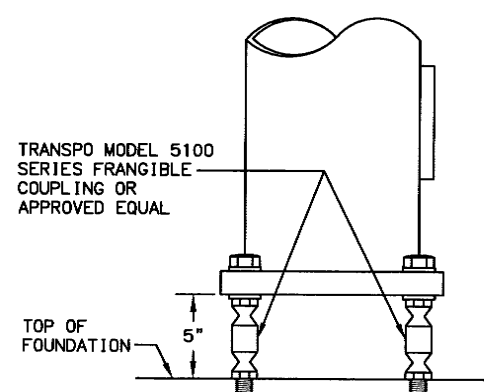


ELECTROLIER ELEVATION

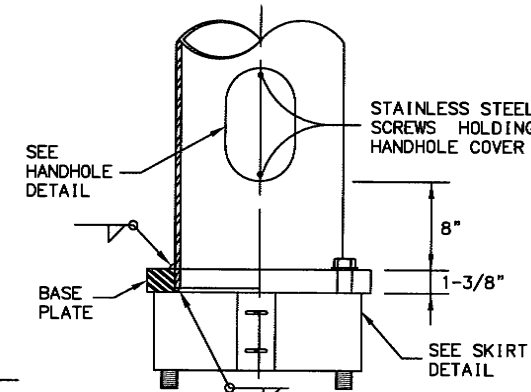
DAVIT TYPE

ELECTROLIER ELEVATION

OFFSET TYPE



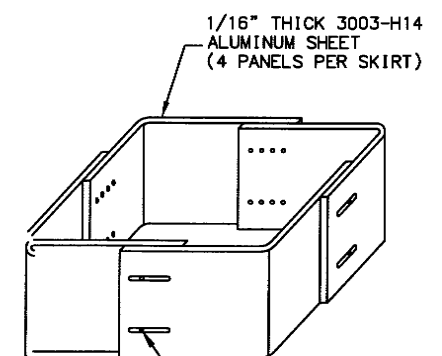
VIEW B-B



VIEW C-C

NOTES:

1. DESIGN AND FABRICATE OFFSET TYPE SHAFTS AS SHOWN WITH AN OFFSET FIXTURE. FOR DAVIT TYPE SHAFTS, SECTION "A" IS CONSTRUCTED AS SHOWN AND SECTION "B" VARIES IN LENGTH. SECURE THE SLIP FIT CONNECTION BETWEEN THE TWO SECTIONS WITH A 5/8" THROUGH BOLT AND SELF LOCKING NUT. ASSUME EACH OFFSET FIXTURE WEIGHS 60 POUNDS AND HAS AN EFFECTIVE PROJECTED AREA OF 2.8 SQUARE FEET. WITH THIS DEAD LOAD, LIMIT THE ANGULAR ROTATION TO THE POLE TOP 1° 40" MAXIMUM.
2. WELD SIZE TO BE DETERMINED BY THE MANUFACTURER.
3. MOUNTING HEIGHT, IF SPECIFIED IN THE PLANS, REFERS TO THE HEIGHT OF LUMINAIRE ABOVE THE ROADWAY. ADJUST EACH POLE'S SHAFT LENGTH TO MAINTAIN THIS DIFFERENCE IN ELEVATION WHENEVER SLOPE AND/OR OFFSET VARIES.
4. MINIMUM OUTSIDE DIAMETER AT THE TOP OF AN OFFSET TYPE POLE EQUALS 3-7/8" AND FOR A DAVIT TYPE POLE EQUALS 2-3/8". POLE DIAMETER SHALL TAPER UNIFORMLY FROM THE TOP OF THE POLE TO THE BASE PLATE, WITH A MAXIMUM TAPER RATE OF 0.14" PER FOOT.
5. APPLY AN ANTI-SEIZING COMPOUND TO ALL THREADED SURFACES, INCLUDING THOSE IN THE ANCHOR PLATE AND ON THE COUPLINGS.
6. MASTARM ANGLE MUST NOT VARY MORE THEN ±1° FROM THE 25° SPECIFIED.
7. LOCATE THE HANDHOLD AT 90 DEGREES TO THE MASTARM ON THE SIDE OF POLE DOWNSTREAM FROM TRAFFIC FLOW.
8. FURNISH ALL POLES WITH A J-HOOK TO SUPPORT THE ILLUMINATION TAP CONDUCTORS.
9. MOUNT LIGHTING STANDARDS UPON TRANSPO MODEL NO. 5100 FRANGIBLE COUPLINGS AND TRANSPO TYPE B FEMALE ANCHORS, OR APPROVED EQUAL.
10. INSTALL ALL COMPONENTS OF THE BREAKAWAY SUPPORT SYSTEM IN ACCORDANCE WITH THE MANUFACTURER'S WRITTEN INSTRUCTIONS.
11. FABRICATE THE SKIRT FROM FOUR PIECES OF 1/16" THICK 3003 H-14 ALUMINUM SHEET. BEND EACH PLATE TO PROVIDE CORNERS WITH A 3/4" RADIUS. ASSEMBLE THE SKIRT WITH #10 X 3/8" SELF TAPPING STAINLESS SCREWS OR POP RIVETS. THE ASSEMBLED SKIRT MEASURES ABOUT 12-3/4" SQUARE.
12. A JUNCTION BOX IS REQUIRED AT EACH NEW ELECTROLIER. INSTALL THE JUNCTION BOX IMMEDIATELY BEHIND THE FOUNDATION APPROXIMATELY 7' FROM POLE UNLESS OTHERWISE SPECIFIED IN THE PLANS.



SKIRT DETAIL

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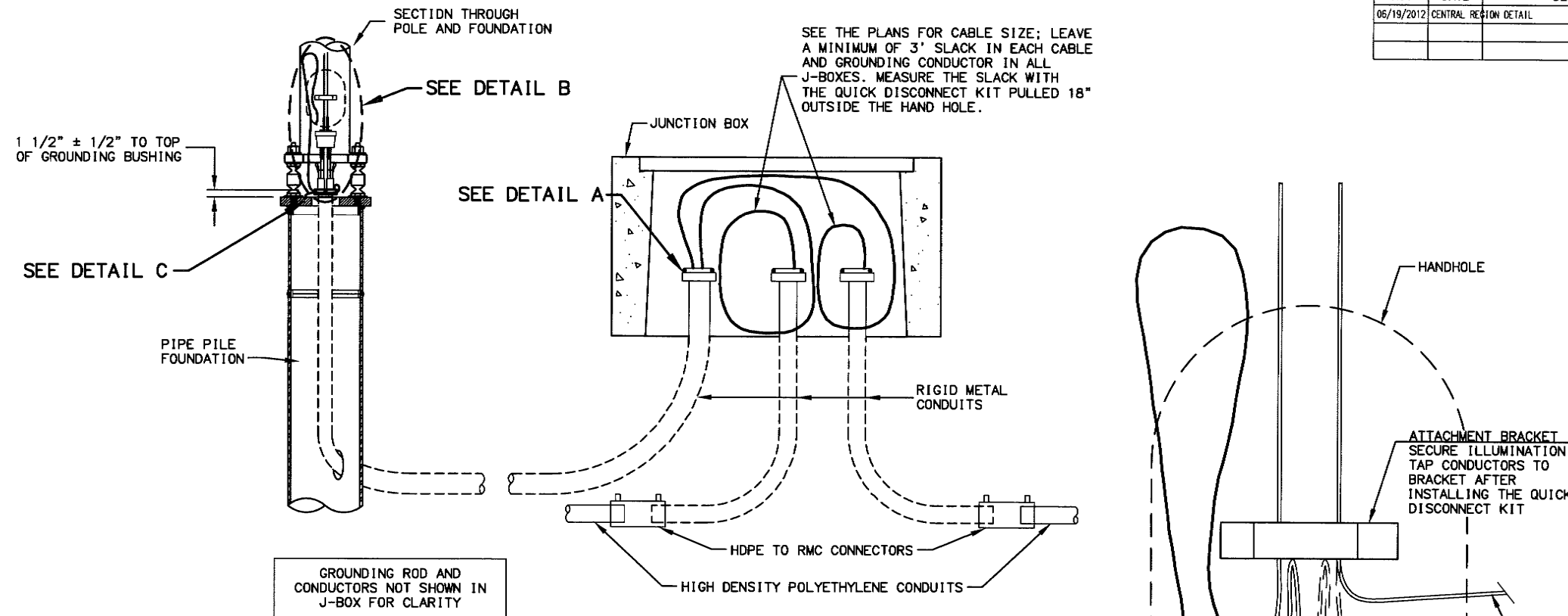
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

LIGHTING STANDARD 2

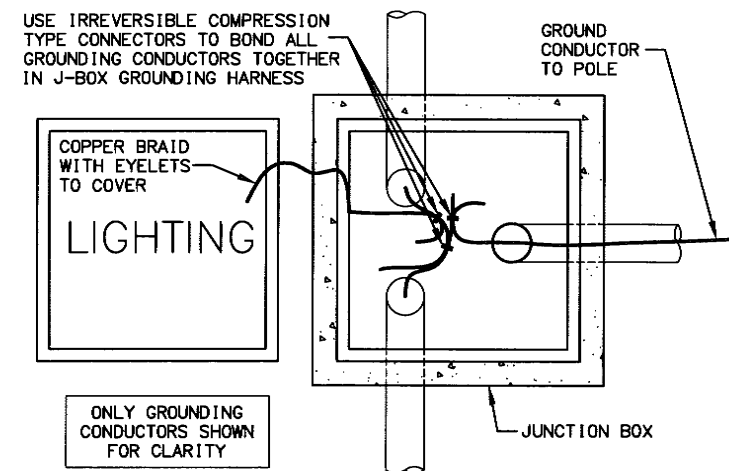
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REVISIONS		
NO.	DATE	DESCRIPTION
06/19/2012		CENTRAL REGION DETAIL

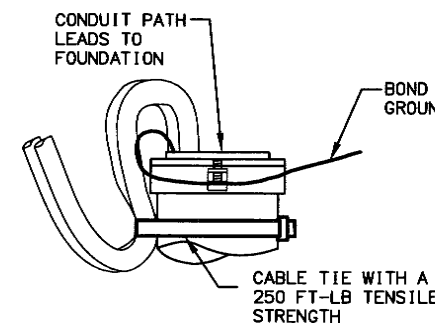
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	P11	P23



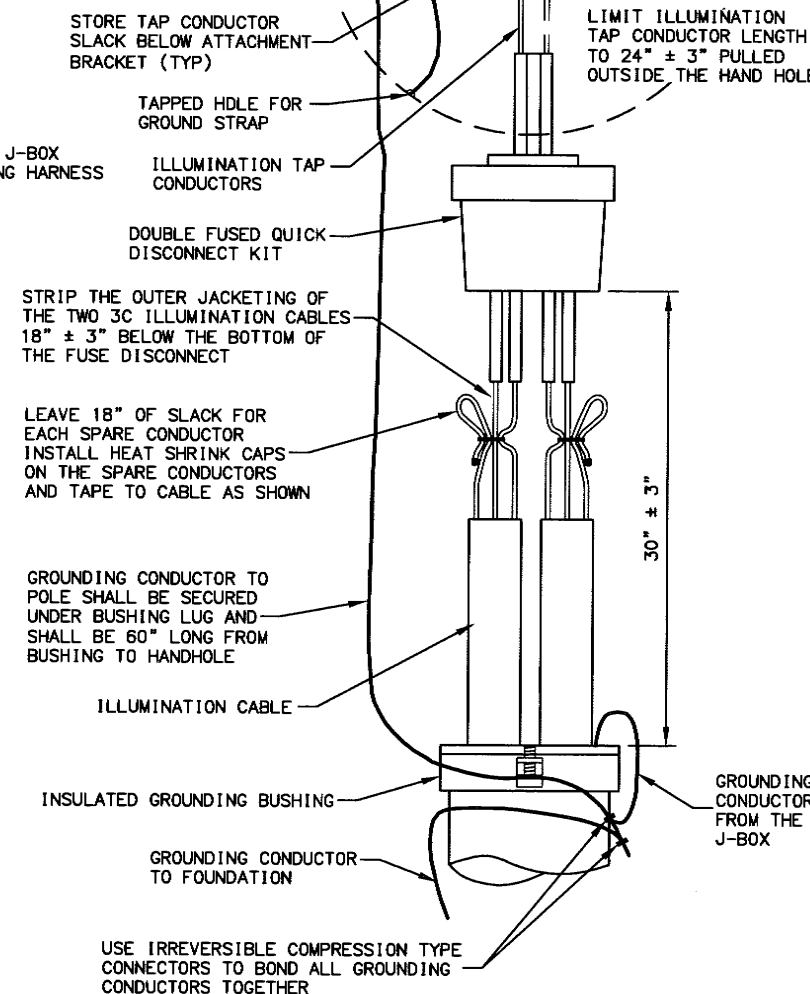
LIGHTING SYSTEM POLE AND J-BOX WIRING DETAILS



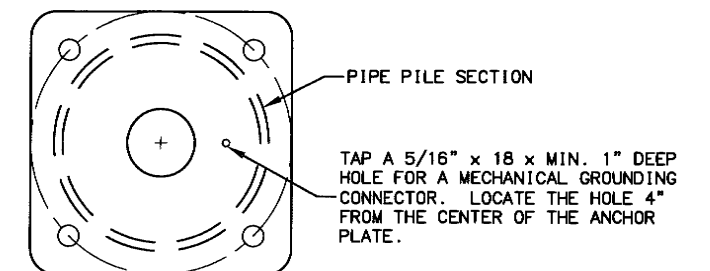
GROUNDING CONDUCTOR BONDING CONNECTIONS



DETAIL A



DETAIL B



DETAIL C

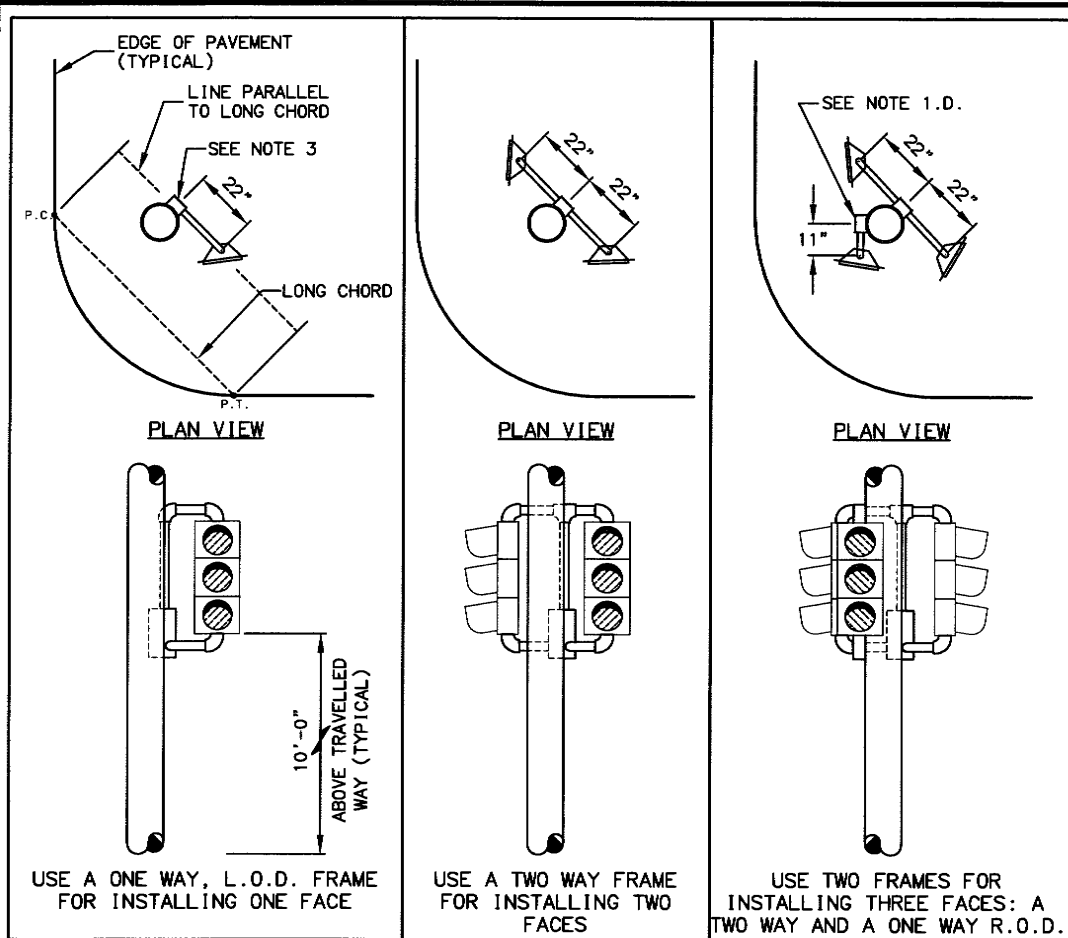
NOTES:

1. APPLICATION FOR SLIP BASE IS THE SAME EXCEPT FOR BONDING. SEE SUBSECTION 660-3.06 FOR BONDING.
2. LABEL ALL CABLES AND CONDUCTORS IN POLE BASE AND J-BOX. SEE SUBSECTION 660-3.05.
3. MAKE ALL GROUNDING AND BONDING WIRE #8 AWG, EXCEPT IN THOSE CONDUITS THAT CONTAIN CIRCUIT CONDUCTORS LARGER THAN #8 AWG. IN THIS CASE USE WIRE EQUAL IN SIZE TO THE LARGEST CONDUCTOR. THE GROUNDING CONDUCTOR TO THE FOUNDATION SHALL BE #4 AWG.
4. USE LISTED IRREVERSIBLE COMPRESSION TYPE CONNECTORS SIZED FOR EACH APPLICATION AND INSTALLED PER MANUFACTURERS SPECIFICATIONS.
- 5.

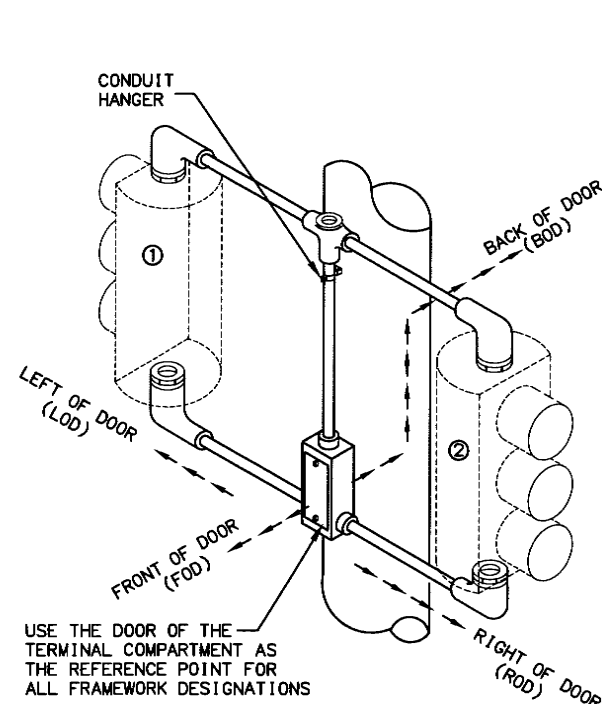
PS&E REVIEW 9/27/2013

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	SEWARD HIGHWAY: 92ND AVENUE CONNECTOR
EDC, INC	WIRING AND GROUNDING PIPE PILE FOUNDATION

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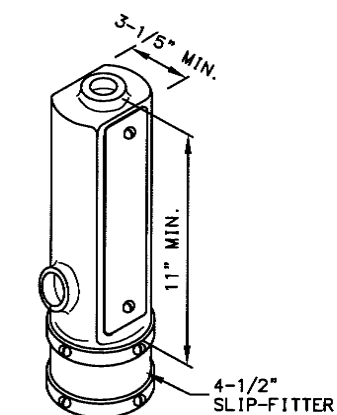


SIDE MOUNTED SIGNAL FRAMES WITH VEHICULAR SIGNALS
(SHOWN WITHOUT BACKPLATES)

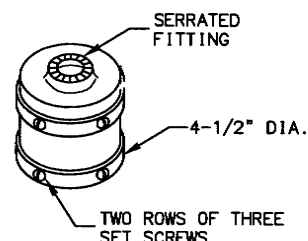


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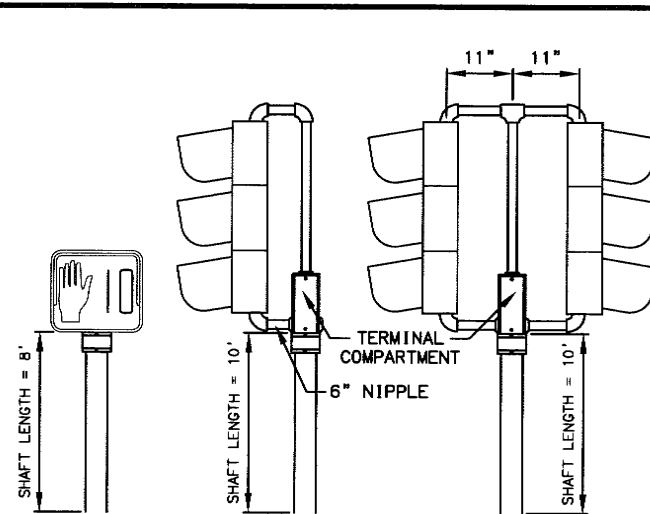
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HEAD NO. ② OFFSET R.O.D.



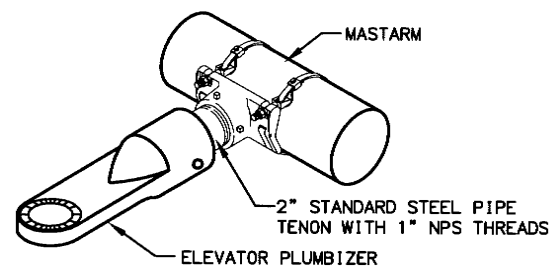
TERMINAL COMPARTMENT WITH SLIP FITTER
(SEE NOTES 1.C. AND 2)



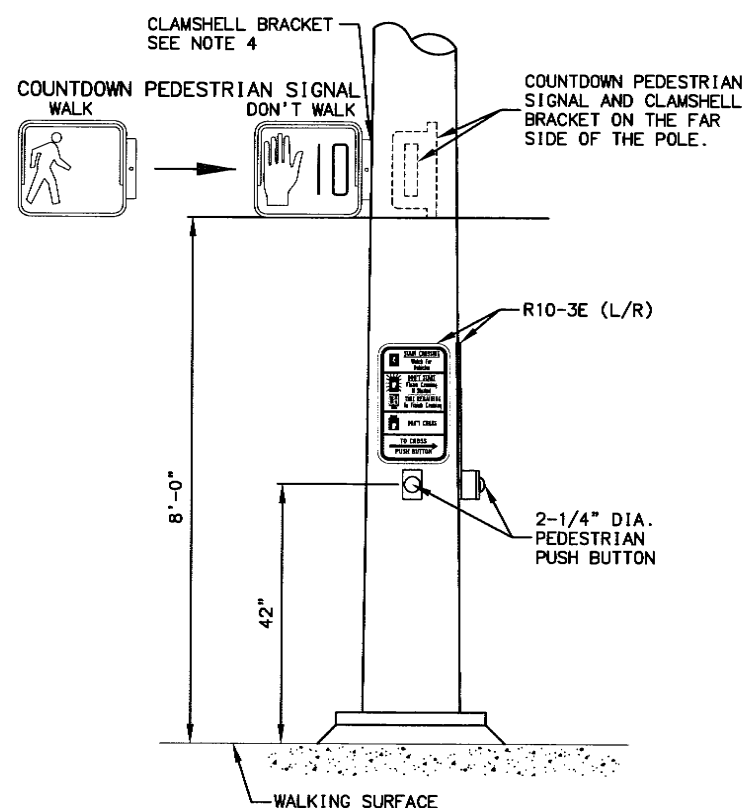
SLIP FITTER
(SEE NOTE 1.B.)



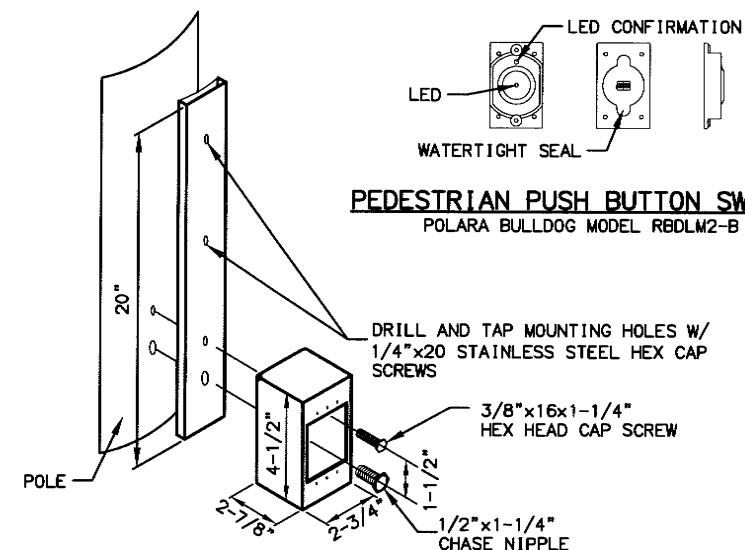
POST MOUNTED SIGNALS
(SHOWN WITHOUT BACKPLATE)



ELEVATOR PLUMBIZER
(SEE NOTE 1.A.)



PEDESTRIAN HARDWARE



PEDESTRIAN PUSH BUTTON SWITCH
POLARA BULLDOG MODEL RBDLM2-B

PEDESTRIAN PUSH BUTTON HOUSING
(STYLE A)

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR
TRAFFIC SIGNAL HARDWARE DETAIL SHEET

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	P12	P23

NOTES:

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

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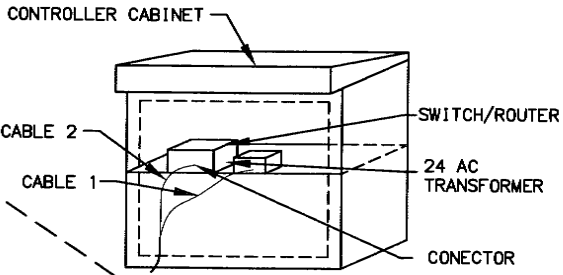
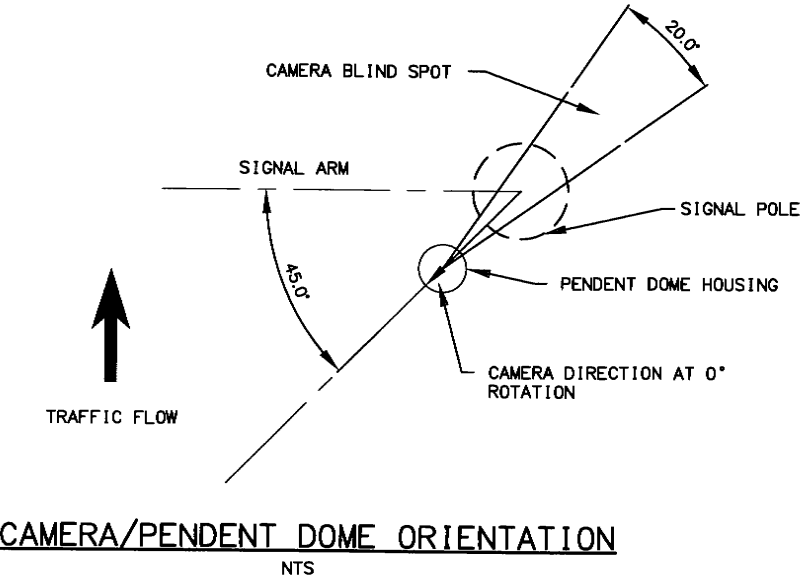
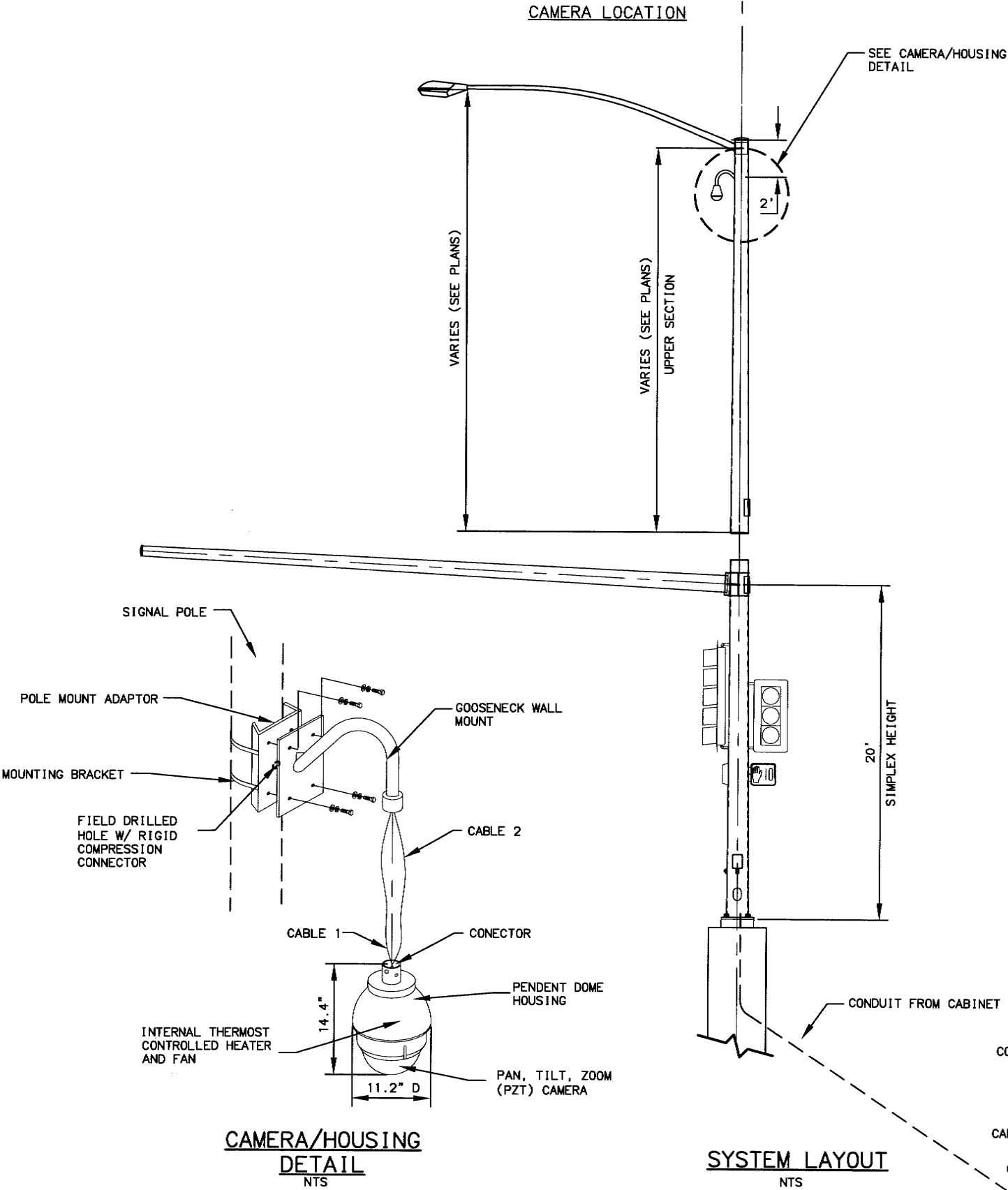
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DRAWING LOCATION

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	P14	P23

MATERIAL REQUIREMENTS	
ALL ASSEMBLIES	
MOUNTING BRACKET	PELCO TRITON BRACKET
POLE MOUNT ADAPTOR	SONY UNI-PMA1 OR APPROVED EQUAL
GOOSENECK WALL MOUNT	SONY UNI-WMB1 OR APPROVED EQUAL
CABLE 1	CAT-5E, SHIELDED, DIRECT BURIAL
CABLE 2	3C#14 (ACCORDING TO MANUFACTURE'S RECOMMENDATIONS)
CONNECTOR	ENVIRONMENTALLY HARDENED RJ-45
STRAIN RELIEF	REMKE 2201-013 OR APPROVED EQUAL
CAMERA	
CAMERA	SONY NETWORK CAMERA SNC-RZ25N OR APPROVED EQUAL
HOUSING	
PENDANT DOME HOUSING	SONY HOUSING UNI-ORL7T2 OR APPROVED EQUAL

- NOTES:**
1. PROTECT CABLE ENDS FROM MOISTURE AT ALL TIMES.
 2. PULL CABLE IN ACCORDANCE WITH SECTION 660 OF THE SPECIAL PROVISIONS. PULL CABLE SO THAT THERE IS SUFFICIENT LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLES ARE TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS INSTALL AND MAKE FINAL CONNECTIONS.
 3. CABLE RUNS ARE TO BE MADE CONTINUOUS WITHOUT SPLICES EXCEPT FOR IN LOCATION SHOWN IN SPICE DETAIL WITH SPECIFIED CONNECTOR.
 4. CABLE WITH DAMAGED INSULATION, OR THAT HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT NO ADDITIONAL COST.
 5. THE MIN BEND RADIUS SHALL NOT EXCEED THE MANUFACTURERS RECOMMENDATIONS.
 6. ENSURE ADEQUATE LENGTH OF EACH CABLE TO ALLOW WORK ON THE ENDS OF THE CABLE IN THE CONTROLLER CABINET AND THE CAMERA MOUNTING LOCATION.
 7. MOUNT THE PENDENT DOME HOUSING AT A 45° ANGLE AT THE REQUIRED HEIGHT. ANGLE AND HEIGHT MAY BE ADJUSTED BY THE ENGINEER TO AVOID WELDS, APPENDICES AND TO APPROVE SITE DISTANCE.
 8. ADJUST CAMERA INSIDE THE PENDENT DOME HOUSING AS SHOWN. ENSURE THAT THE CAMERA IS MOUNTED AT A 0° TILT ANGLE.
 9. INSTALL WATERTIGHT THREADED RIGID COMPRESSION CONNECTOR WHERE CABLE PASSES THROUGH THE POLE.
 10. AT SPLICE LOCATION PROVIDE A SECURE CONNECTION USING CONNECTOR PARTS SPECIFIED. AFTER CONNECTION IS MADE COVER SPLICE WITH HEAT SHRINK. PROVIDE A STRAIN RELIEF CABLE AS NECESSARY.



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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

**PAN, TILT, ZOOM CAMERA
MOUNTING DETAIL**

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REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	P15	P23

LIGHTING LAYOUT STA 291+00 TO 131+30
SEE P20 FOR PLAN VIEW

OLD SEWARD HWY AND SCOOTER AVE
SEE P16 - P18 FOR SIGNAL PLAN

LC-A: TRAFFIC
SEE P17

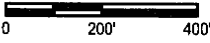
LC-B: SCOOTER AVE ILLUMINATION
SEE P23

LC-C: RAMP ILLUMINATION
SEE P23

LIGHTING LAYOUT - STA 61+00 TO 70+00
SEE P20 FOR PLAN VIEW

LIGHTING LAYOUT - STA 47+50 TO 31+50
SEE P21 FOR PLAN VIEW

1 SITE PLAN
P15 SCALE: 1"=200'-0"



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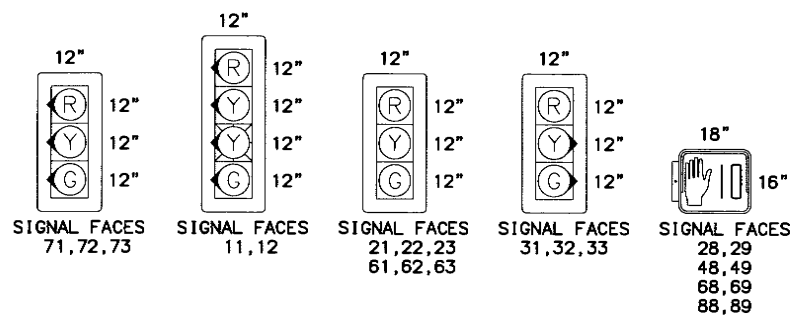
PS&E REVIEW 9/27/2013

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

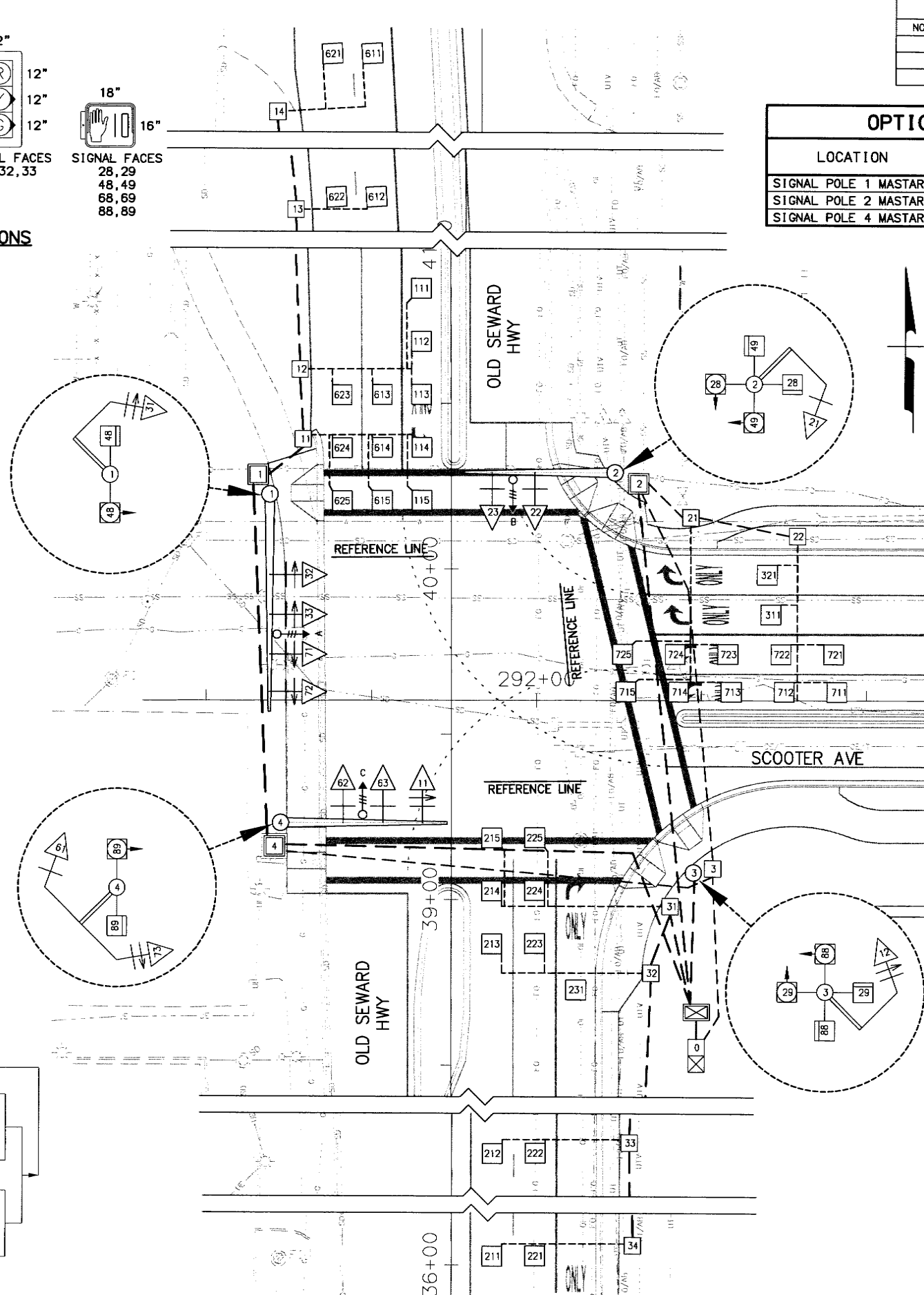
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SITE PLAN

DESIGNED BY
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LAYOUT
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PROJECT
SIGNALIZATION LAYOUT.dwg
ROY



SIGNAL HEAD CONFIGURATIONS



OPTICOM DETECTOR SCHEDULE

LOCATION	DETECTOR ID	PHASE CALL	FACING DIRECTION	REMARKS
SIGNAL POLE 1 MASTARM	A	3,7	E	OPTICOM 721
SIGNAL POLE 2 MASTARM	B	2	S	OPTICOM 721
SIGNAL POLE 4 MASTARM	C	1,6	N	OPTICOM 721

JUNCTION BOX SCHEDULE

J-BOX	STATION ALIGNMENT	OFFSET	TYPE
0	'ML' 38+55.4	74.5 R	1A
1	'ML' 40+28.7	58.5 L	2
11	'ML' 40+39.4	44.8 L	1A
12	'ML' 40+60.5	45.7 L	1A
13	'ML' 42+13.1	51.4 L	1A
14	'ML' 43+22.4	57.0 L	1A
2	'ML' 40+25.6	56.7 R	2
21	'S' 292+46.7	55.3 L	1A
22	'S' 292+49.7	49.7 L	1A
3	'ML' 39+09.3	73.5 R	1A
31	'ML' 38+98.0	66.4 R	1A
32	'ML' 38+77.8	60.6 R	1A
33	'ML' 37+25.8	53.8 R	1A
34	'ML' 36+05.8	54.9 R	1A
4	'ML' 39+16.2	53.7 L	3

LOOP SCHEDULE

LOOP	STATION ALIGNMENT	OFFSET
111	'ML' 40+81.7	8.9 L
112	'ML' 40+65.7	8.9 L
113	'ML' 40+49.7	8.9 L
114	'ML' 40+33.7	8.9 L
115	'ML' 40+17.7	8.9 L
211	'ML' 36+05.6	12.3 R
212	'ML' 37+25.6	12.3 R
213	'ML' 38+89.7	12.3 R
214	'ML' 39+05.7	12.3 R
215	'ML' 39+21.7	12.3 R
221	'ML' 36+05.6	25.3 R
222	'ML' 37+25.6	25.3 R
223	'ML' 38+89.7	25.3 R
224	'ML' 39+05.7	25.3 R
225	'ML' 39+21.7	25.3 R
231	'ML' 38+75.8	37.8 R
311	'S' 292+67.9	26.0 L
321	'S' 292+66.8	38.0 L
611	'ML' 43+33.8	20.9 L
612	'ML' 42+32.8	20.9 L
613	'ML' 40+49.7	20.9 L
614	'ML' 40+33.7	20.9 L
615	'ML' 40+17.7	20.9 L
621	'ML' 43+33.8	32.9 L
622	'ML' 42+32.8	32.9 L
623	'ML' 40+49.7	32.9 L
624	'ML' 40+33.7	32.9 L
625	'ML' 40+17.7	32.9 L
711	'S' 292+88.1	2.6 L
712	'S' 292+72.1	2.6 L
713	'S' 292+56.1	2.6 L
714	'S' 292+40.1	2.6 L
715	'S' 292+24.1	2.6 L
721	'S' 292+87.0	14.0 L
722	'S' 292+71.0	14.0 L
723	'S' 292+55.0	14.0 L
724	'S' 292+39.0	14.0 L
725	'S' 292+23.0	14.0 L

FOUNDATION SCHEDULE

	STATION ALIGNMENT	OFFSET	STRUCTURE
LC-A	'ML' 38+50.4	74.5 R	TYPE 1A LOAD CENTER
TC	'ML' 38+66.0	74.5 R	TRAFFIC CONTROLLER
P1	'ML' 40+22.7	55.0 L	PILE FOUNDATION
P2	'ML' 40+28.9	49.6 R	PILE FOUNDATION
P3	'ML' 39+08.1	73.5 R	PILE FOUNDATION
P4	'ML' 39+23.3	51.3 L	PILE FOUNDATION

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SIGNALIZATION LAYOUT

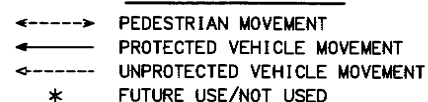
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current concepts as of
(See date @ left border)

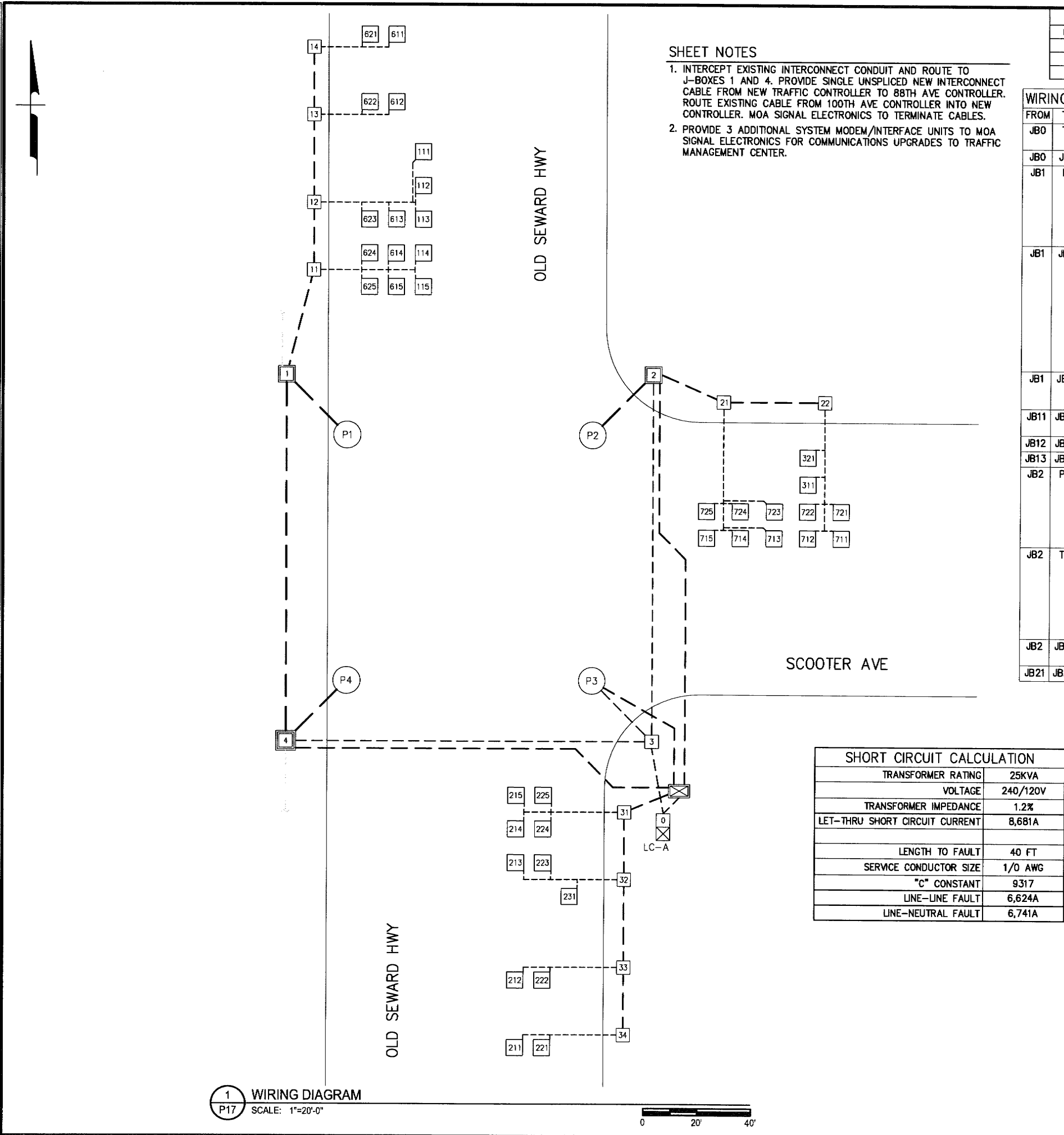
EDC, INC

1
P16
SIGNALIZATION LAYOUT
SCALE: 1"=20'-0"

0 20' 40'

PHASE DIAGRAM





SHEET NOTES

- INTERCEPT EXISTING INTERCONNECT CONDUIT AND ROUTE TO J-BOXES 1 AND 4. PROVIDE SINGLE UNSPLICED NEW INTERCONNECT CABLE FROM NEW TRAFFIC CONTROLLER TO 88TH AVE CONTROLLER. ROUTE EXISTING CABLE FROM 100TH AVE CONTROLLER INTO NEW CONTROLLER. MOA SIGNAL ELECTRONICS TO TERMINATE CABLES.
- PROVIDE 3 ADDITIONAL SYSTEM MODEM/INTERFACE UNITS TO MOA SIGNAL ELECTRONICS FOR COMMUNICATIONS UPGRADES TO TRAFFIC MANAGEMENT CENTER.

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	P17	P23

WIRING NOTES				
FROM	TO	CONDUIT	WIRE	
JB0	TC	2 IN	1-3C#6 1-3C#6	SIG GROUND
JB0	JB3	2 IN	1-3C#8	INTX L
JB1	P1	3 IN	5-7C#14 1-5C#14 1-3C#14 1-3C#20 1-3C#14	HEAD 31,32,33,71,72 PEDI 48 PED B 48 PRE A PRE CON A INTX L
JB1	JB4	3 IN	5-7C#14 1-5C#14 1-3C#14 1-3C#20 1-3C#14 1-7PR#18 1-7PR#18 1-7PR#18 1-25PR#19 1-3C#8	HEAD 31,32,33,71,72 PEDI 48 PED B 48 PRE A PRE CON A LOOPS 114,115,614,615,624,625 LOOPS 111,112,113,613,623,631 LOOPS 611,612,621,622 INTX L
JB1	JB11	3 IN	1-7PR#18 1-7PR#18 1-7PR#18	LOOPS 114,115,614,615,624,625 LOOPS 111,112,113,613,623,631 LOOPS 611,612,621,622
JB11	JB12	2 IN	1-7PR#18 1-7PR#18	LOOPS 111,112,113,613,623,631 LOOPS 611,612,621,622
JB12	JB13	2 IN	1-7PR#18	LOOPS 611,612,621,622
JB13	JB14	2 IN	1-7PR#18	LOOPS 611,621
JB2	P2	3 IN	3-7C#14 2-5C#14 2-3C#14 1-3C#20 1-3C#14	HEAD 21,22,23 PEDI 28,49 PED B 28,49 PRE B PRE CON B INTX L
JB2	TC	3 IN	3-7C#14 2-5C#14 2-3C#14 1-3C#20 1-3C#14 1-7PR#18 1-7PR#18 1-7PR#18 SPARE	HEAD 21,22,23 PEDI 28,49 PED B 28,49 PRE B PRE CON B LOOPS 713,714,715,723,724,725 LOOPS 711,712,721,722,311,321
JB2	JB21	2 IN	1-7PR#18 1-7PR#18	LOOPS 713,714,715,723,724,725 LOOPS 711,712,721,722,311,321
JB21	JB22	2 IN	1-7PR#18	LOOPS 711,712,721,722,311,321

WIRING NOTES				
FROM	TO	CONDUIT	WIRE	
P3	TC	3 IN	1-7C#14 2-5C#14 2-3C#14 1-3C#20 1-3C#14 1-CAT5E 1-3C#14 SPARE	HEAD 12 PEDI 29,88 PED B 29,88 PRE C PRE CON C PTZ CAMERA 24VAC CAMERA POWER
JB3	P3	2 IN	2-3C#8	INTX L
JB31	TC	3 IN	1-7PR#18 1-7PR#18 1-7PR#18	LOOPS 214,215,224,225 LOOPS 213,223,231 LOOPS 211,212,221,222
JB31	JB32	2 IN	1-7PR#18 1-7PR#18	LOOPS 213,223,231 LOOPS 211,212,221,222
JB32	JB33	2 IN	1-7PR#18	LOOPS 211,212,221,222
JB33	JB34	2 IN	1-7PR#18	LOOPS 211,221
JB4	P4	3 IN	5-7C#14 1-5C#14 1-3C#14 1-3C#20 1-3C#14 2-3C#8 SPARE	HEAD 11,61,62,63,73 PEDI 89 PED B 89 PRE C PRE CON C INTX L
JB4	TC	3 IN	5-7C#14 1-5C#14 1-3C#14 1-3C#20 1-3C#14 5-7C#14 1-5C#14 1-3C#14 1-3C#20 1-3C#14 1-7PR#18 1-7PR#18 1-7PR#18 2-25PR#19 SPARE	HEAD 31,32,33,71,72 PEDI 48 PED B 48 PRE A PRE CON A HEAD 11,61,62,63,73 PEDI 89 PED B 89 PRE C PRE CON C LOOPS 114,115,614,615,624,625 LOOPS 111,112,113,613,623,631 LOOPS 611,612,621,622 INTERCONNECT
JB4	JB3	2 IN	1-3C#8	INTX L

LOAD CENTER "A" SUMMARY: TYPE 1A INSTALLATION													
LOAD CENTER LOCATION: OLD SEWARD AND SCOOTER						POWER SOURCE: CEA							
SERVICE: SINGLE PHASE, 3 WIRE, 240V/120 W/GND NEUTRAL						METER SOCKET REQUIRED: Y							
LOAD		MAIN BREAKERS		CONTACTOR		CONTROL		P. E. LOCATION:					
A		240V 2 POLE 100A		600V 12 POLE 30A		PE		LOAD CENTER					
POLE	AMP/TRIP	DESCRIPTION				KVA	AØ	BØ	KVA	DESCRIPTION		AMP/TRIP	POLE
1	15/2	PHOTOCELL				0.1	1.1		1.0	SIGNAL POLE LIGHTING		20/2	2
3						0.1		1.1	1.0				4
5	50/1	TRAFFIC CONTROLLER				3.6	3.6		0.0				6
7						0.0		0.0	0.0				8
9						0.0	0.0		0.0				10
11						0.0		0.0	0.0				12
13						0.0	0.0		0.0				14
15						0.0		0.0	0.0				16
17						0.0	0.0		0.0				18
19						0.0		0.0	0.0				20
							4.7	1.1					
TOTAL KVA 5.8 AMPS AT 240V 24.2													

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STATE OF ALASKA
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**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**
WIRING DIAGRAM

1 WIRING DIAGRAM
SCALE: 1"=20'-0"

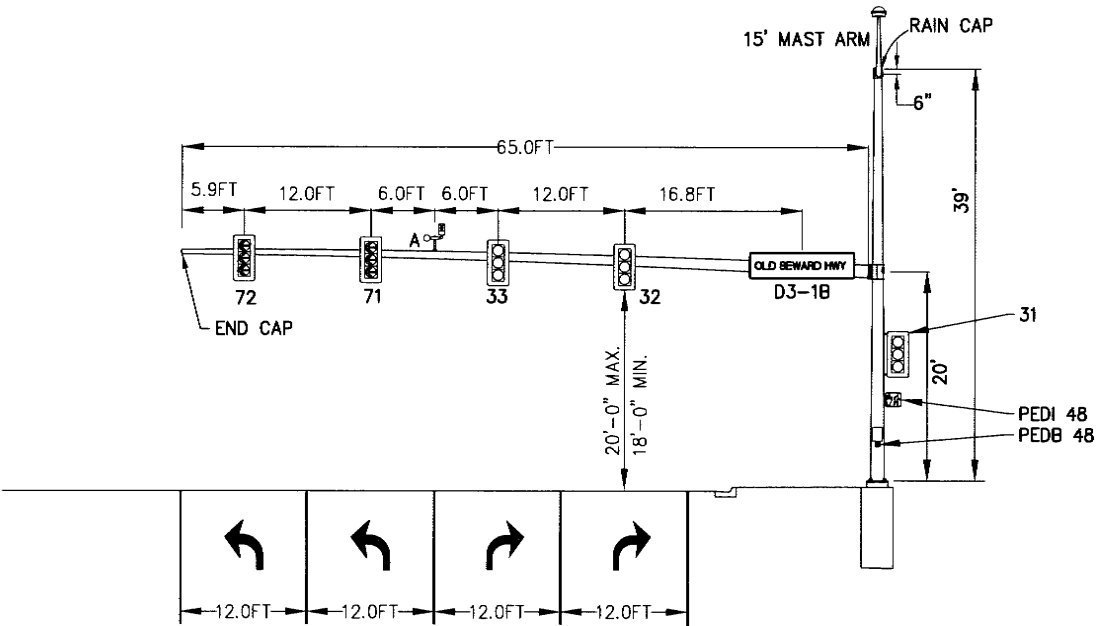
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P:\Projects\HDL\92 AVE\Draws\Elec\P18 SIGNAL POLE ELEVATION VIEW.dwg ROY

REVISIONS		
NO.	DATE	DESCRIPTION

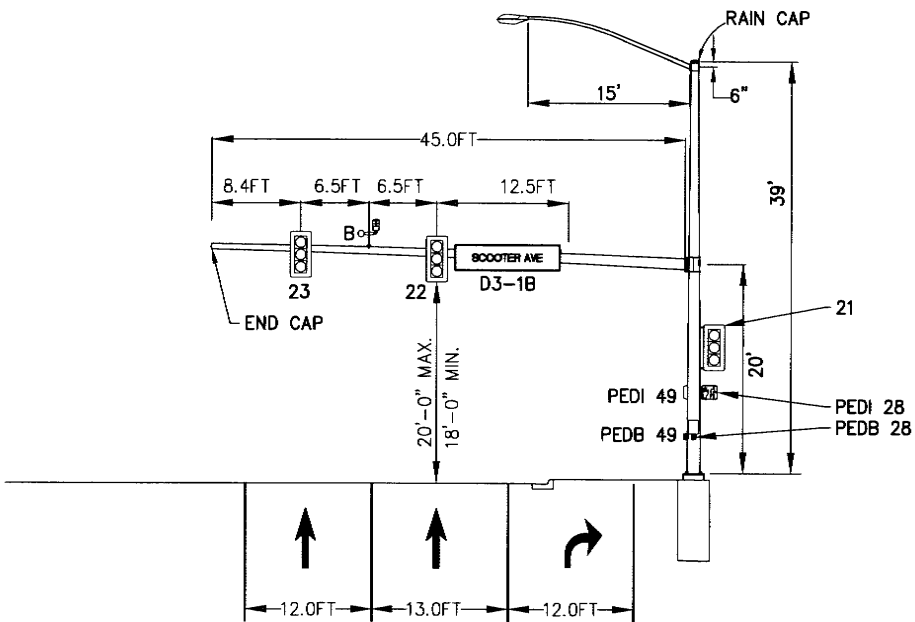
STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	P18	P23

SHEET NOTES

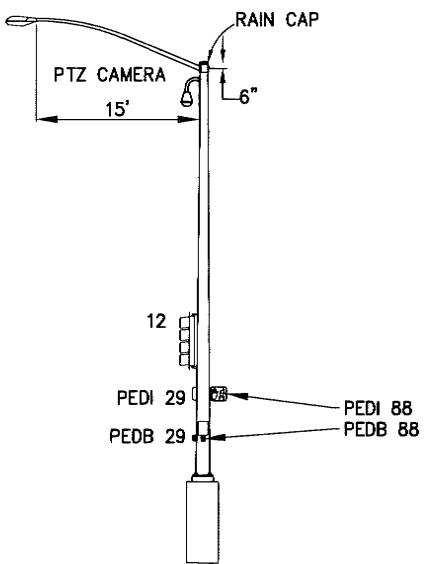
1. ALL SIGNAL POLES SHALL BE DESIGNED FOR 100 MPH WIND LOADING WITH 1.3 GUST FACTOR. SEE STANDARD DETAILS "STANDARD SIGNAL POLE-MAST ARMS 40 FT TO 50 FT", "STANDARD SIGNAL POLE-MAST ARMS 55 FT TO 65 FT", AND "STANDARD SIGNAL POLE-MAST ARMS 70 FT TO 75 FT" FOR MAST ARM DESIGN LOAD DATA. STATE OF ALASKA DETAILS ARE INCLUDED IN THE PLAN SET AND ARE APPLICABLE TO ALL SIGNAL POLES IN THIS PROJECT.
2. ELEVATIONS SHOWN ARE TO BOTTOM OF SIGNAL HEAD BACKPLATE, TOP OF POLE FOUNDATION OR LUMINAIRE AS INDICATED.
3. VERIFY SIGNAL POLE BASE ELEVATION WITH CIVIL DRAWINGS.
4. PROVIDE 400W, 240V, TYPE M-C-3 HPS LUMINAIRES (COBRA HEAD) FOR INTERSECTION ILLUMINATION. LUMINAIRES SHALL BE IESNA RATED FULL CUTOFF.
5. DISTANCES GIVEN FOR THE SIGNAL AND SIGN LOCATIONS ARE GUIDELINES. FIELD ADJUST SIGNALS AND SIGNS ACCORDING TO THE LANE ALIGNMENT SHOWN ON THE TABLES, OR AS DIRECTED BY THE FIELD ENGINEER.
6. OVERHEAD GUIDE SIGNS SHALL USE THE CLEARVIEW FONT, 5WR.
7. PTZ CAMERA SHALL BE MOUNTED AT 35'



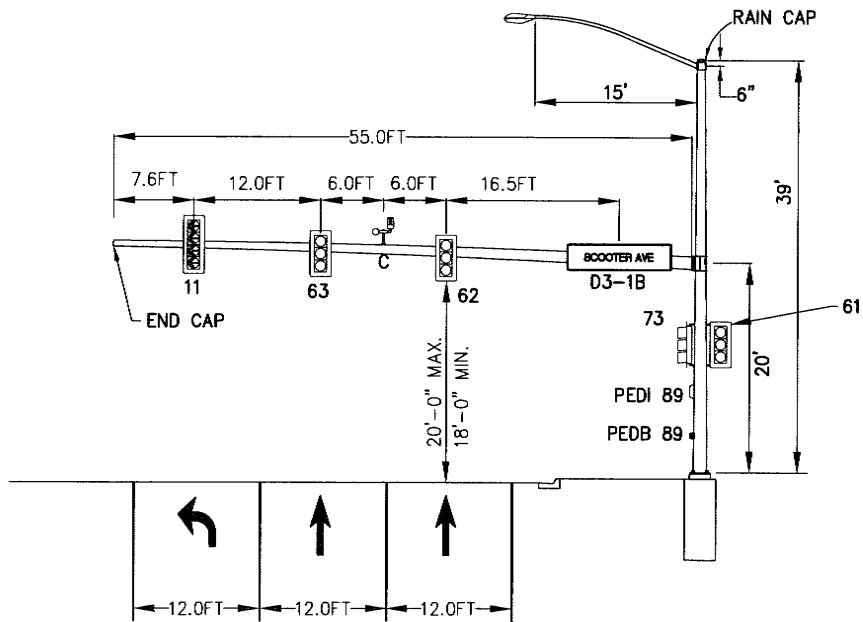
SIGNAL POLE 1 - WB TRAFFIC



SIGNAL POLE 2 - NB TRAFFIC



SIGNAL POLE 3



SIGNAL POLE 4 - SB TRAFFIC

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SIGNAL POLE ELEVATION VIEW

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SCALE

LAYOUT
P19

DATE
TIME
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DRAWING LOCATION
P:\Projects\Vol 192 AVE\Draws\Elec\P19 SIGNAL EQUIPMENT.dwg
ROY

CONTROLLER CABINET FEATURES	
GENERAL OPTIONS	
TYPE	TS2-1
SIZE	NEMA SIZE 6
MATERIALS	0.125" NATURAL ALUMINUM
MODEL	WESTERN SYSTEMS TS2-1P
EXTENDER BASE	NONE
MOUNTING HARDWARE	INCLUDED
PAINT	YES, SEE SPECIAL PROVISIONS
SPECIAL OPTIONS	
LIFTING TABS	INCLUDED
COMPUTER SHELF	FULL WIDTH, 12"
AIR FILTER	FIBER MESH
MAIN DOOR LOCK	BEST
REAR DOOR	NONE
INCANDESCENT LAMP	24"
MAIN PANEL	
MAIN PANEL POSITION	16-POSITION HORIZONTAL
RESISTOR LOCATION	SIDEWALL
FLASH TRANSFER RELAY SOCKETS	8 INCLUDED
FLASHER	INCLUDED
R1 RELAY	INCLUDED
POWER PANEL	
SURGE SUPPRESSION	SHP300-10
LINE FILTER (RADIO INTERFERENCE)	50A
MERCURY CONTACTOR	NORMALLY OPEN
MAIN CIRCUIT BREAKER	50A
AUXILIARY CIRCUIT BREAKER	20A
GFI LOCATION	POWER PANEL
3 POSITION TERMINAL BLOCK FOR INCOMING POWER	INCLUDED
16 POSITION NEUTRAL BUS BAR	INCLUDED
16 POSITION CHASSIS GROUND BUS BAR	INCLUDED
POLICE PANEL	
POLICE PANEL	INCLUDED
POLICE PANEL SWITCHES	SIGNALS ON/OFF, AUTO/FLASH
POLICE PANEL PUSHBUTTON ALARM	NONE
POLICE DOOR LOCK	BEST
POLICE PANEL MANUAL CORD	NONE
AUXILIARY PANEL	
AUXILIARY PANEL SWITCHES	AUTO/FLASH, STOP TIME, CONTROLLER POWER, COORD/TOD/FREE, CABINET LIGHT, HEATER BYPASS
DETECTOR TEST SWITCHES	TACTILE PUSHBUTTON
FORCE OFF SWITCHES	TACTILE PUSHBUTTON
RACK DETECTION	
DETECTOR RACKS	PROVIDE FOUR (4) 16-CHANNEL DETECTOR RACKS WITH 2 SLOTS EACH FOR OPTICOM.
DETECTOR RACK POWER SUPPLY	BIU FOR EACH RACK
EVP REQUIREMENTS	WIRING FOR 3M OPTICOM RACK W/GREENS EACH DETECTOR RACK
ADDITIONAL OPTIONS	
MASTER CABINET	NO
WIRE CABINET FOR UPS	NO
RAILROAD PREEMPTION	NO
RAILROAD PREEMPTION/STAND ALONE PANEL	NONE
RED JUMPERS FOR ALL UNUSED PHASES	INCLUDED
LOAD RESISTORS	8 INCLUDED
RJ-11 TELEPHONE JACK	INCLUDED
I/C PUNCHDOWN BLOCK (25 PAIR)	INCLUDED
ADDITIONAL RECEPTACLE (FILTERED)	INCLUDED
ADDITIONAL NEUTRAL BUS BARS (32 POSITIONS)	LEFT SIDE OF CABINET
ADDITIONAL CHASSIS GROUND BUS BAR (32 POSITIONS)	LEFT SIDE OF CABINET
STANDARD WIRING DIAGRAM (AUTOCAD FORMAT)	PROVIDE ON COMPACT DISC
STANDARD WIRING DIAGRAM (22X34)	1 IN CABINET, 1 TO SIGNAL TECHNICIAN
48-HOURS FACTORY BURN-IN	INCLUDED
HEATER RECEPTACLE (SINGLE)	RIGHT SIDE
OPTICOM 757 HARNESS	WIRED INTO CABINET
OPTICOM 768 AUXILIARY INTERFACE PANEL	WIRED INTO CABINET

CONTROLLER ASSEMBLY EQUIPMENT	
SUPPLY ALL LABOR, EQUIPMENT AND MATERIALS TO PROVIDE A FULLY FUNCTIONING TRAFFIC SIGNAL CONTROLLER ASSEMBLY COMPLIANT WITH THE NEMA STANDARD PUBLICATION NO. TS2-2003 V02.06 AND SPECIAL "SPECIALS" PROVISIONS OF THIS CONTRACT INCLUDING BUT NOT LIMITED TO;	
QTY	CONTROLLER/MMU EQUIPMENT
1	ECONOLITE COBALT OR APPROVED EQUAL CONTROLLER
1	CONTROLLER TELEMETRY MODULE TCM-FSK-9
1	CONTROLLER ETHERNET PORT
1	CONTROLLER DATA KEY
1	ECONOLITE MMU2-16LE OR APPROVED EQUAL
1	MMU2 ETHERNET PORT
1	MMU2 CARD
CABINET EQUIPMENT	
16	LOAD SWITCHES
18	4-CHANNEL DETECTOR AMPLIFIERS
8	FLASH TRANSFER RELAYS
2	TERMINAL AND FACILITIES BIU'S
4	DETECTION BIU'S
1	TS2 CABINET POWER SUPPLY
2	SOCKET AND FLASHER
1	600/900/1500W SELECTABLE THERMOSTATICALLY CONTROLLED CABINET HEATER
1	RESEALABLE PRINT POUCH OF SUFFICIENT SIZE TO ACCOMMODATE CABINET PRINTS
1	COMPLETE SET OF MANUAL FOR CONTROLLER, MMU AND VEHICLE DETECTOR AMPLIFIERS
1	OPTICOM MODEL 764 PHASE SELECTOR

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	P19	P23

COMMUNICATION EQUIPMENT SCHEDULE	
QTY	RADIO INTERCONNECT SYSTEM
0	MDS MODEL 4790A 330-512MHZ LICENSED MASTER RADIO (NON-PROTECTED)
0	MDS MODEL 4710A 330-512MHZ LICENSED TRANCEIVER
0	ANTENEX 450-470MHZ 10.2DB N(F) YAGI ANTENNA
0	ANDREW LDF4-50 COAXIAL CABLE HELIAX .63 OD (UNIT LINEAR FEET)
0	MDS 01-3682A01 AC ADAPTER 12V-30W 110/220VAC
0	ANDREW CONNECTOR, LDF4-50 N(M)
0	ANDREW CONNECTOR, LDF4-50 N(F)
0	POLYPHASER LIGHTING PROTECTOR,FLANGED N(F)-N(F)
ON-STREET MASTER CONTROLLER	
0	MASTER CONTROLLER, ECONOLITE ASC/2M-1000
0	56K INDUSTRIAL MODEM & PHONE DROP (INCLUDES TELCO ACTIVATION)
0	ECONOLITE GPS-100 GPS TIME REFERENCE OR APPROVED EQUAL
UNINTERRUPTIBLE POWER SUPPLY	
0	ECONOLITE CUSTOM CABINET FOR UPS, MOUNT TO CABINET
0	ECONOLITE DBL 2100 OR APPROVED EQUAL
0	ECONOLITE HOT SWAP BYPASS SWITCH OR APPROVED EQUAL
0	ECONOLITE FAIL-SAFE BYPASS SWITCH OR APPROVED EQUAL
OTHER EQUIPMENT	
0	ATSI PCMT-2600 MMU TESTER W/MMU & CMU CABLES
0	FULLY FUNCTIONING TRAFFIC SIGNAL CONTROLLER, MASTER CONTROLLER AND CABINET
0	INDUCTIVE LOOP TEST KITS
0	LOOP FINDERS
0	BIU TESTERS
0	FRAME GRABBER
0	MULTI-SWITCH TESTER
0	BIU SLOT TESTER
0	CARD RACK SLOT TESTER
0	DETECTOR TESTER
0	MCCAIN CID II
0	RADIO SITE SURVEY LOCATIONS
0	INTX DIAGRAM LOCATIONS
1	ACTELIS ML688 WITH 4X10/100M PORTS WITH 1EA 100BASE-FX SEP PORT
1	PTZ CAMERA SYSTEM COMPLETE

QTY	EVP EQUIPMENT SCHEDULE
0	OPTICOM MODEL 760E CARD RACK
1	OPTICOM MODEL 754 PHASE SELECTOR
3	OPTICOM MODEL 721 RECEIVERS
0	OPTICOM MODEL 792H EMITTERS W/792 SWITCH

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STATE OF ALASKA
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AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SIGNAL EQUIPMENT

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SCALE

LAYOUT

P20

DATE

TIME

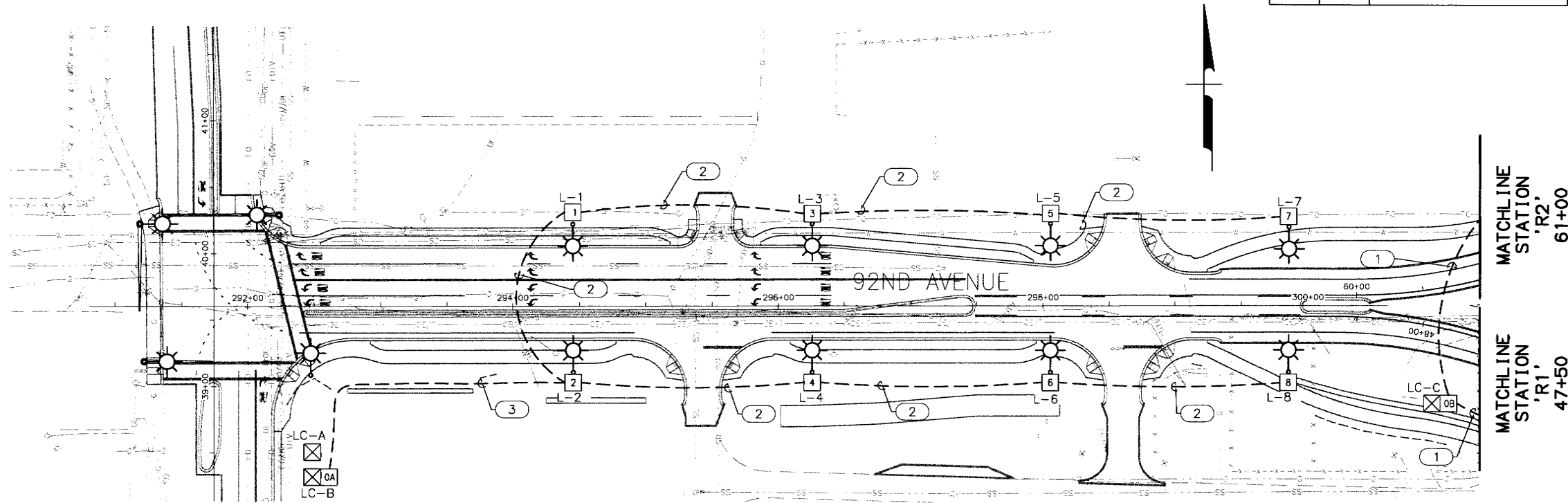
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DRAWING LOCATION

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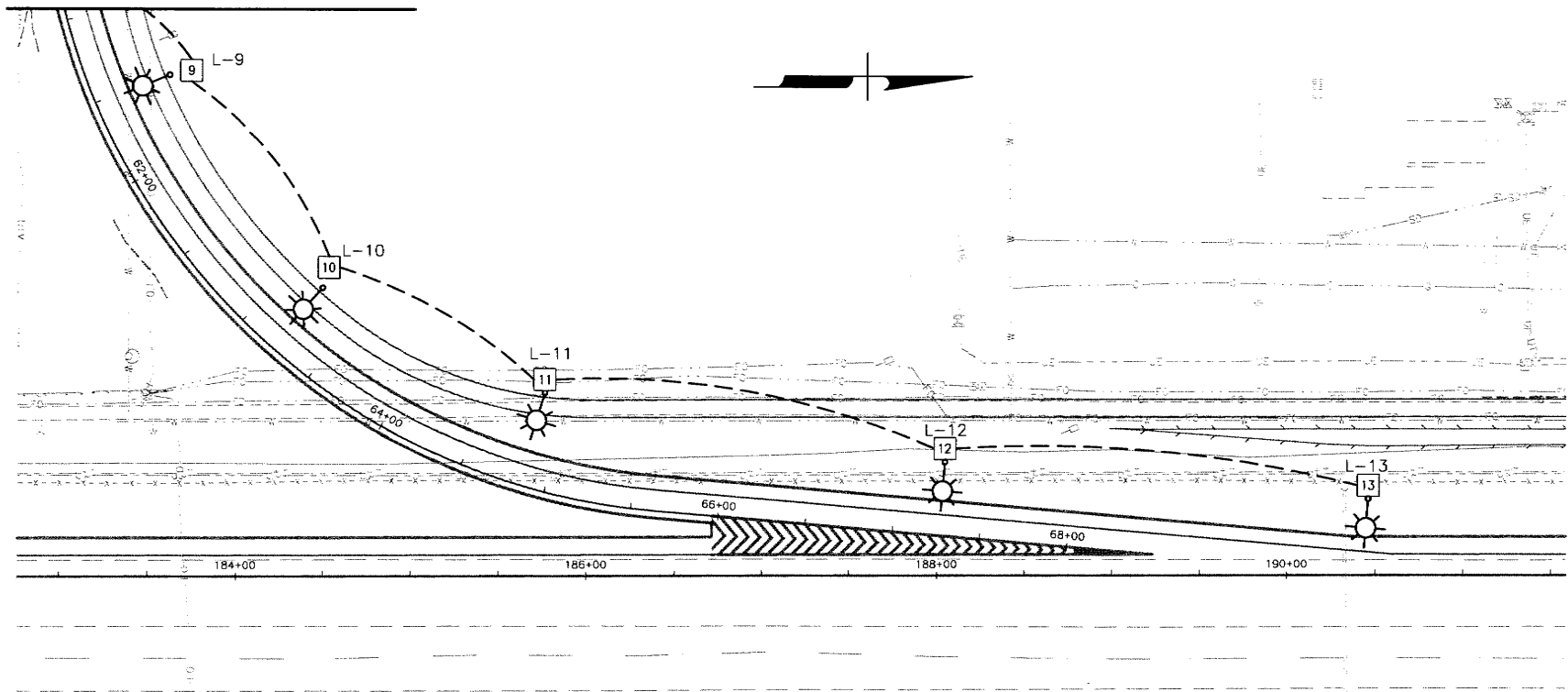
REVISIONS		
NO.	DATE	DESCRIPTION

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	59770	2014	P20	P23



1 LIGHTING LAYOUT - STA 291+00 TO 311+00
P20 SCALE: 1"=50'-0"

MATCHLINE - STATION 'R2' 61+00



2 LIGHTING LAYOUT - STA 'R2' 61+00 TO 70+00
P20 SCALE: 1"=50'-0"

WIRING SCHEDULE		
TAG	CONDUIT	WIRE
1	2 IN	1-3C#6
2	2 IN	1-3C#8
3	2 IN	2-3C#8

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AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

LIGHTING STA 'ML' 291+00 TO
301+00 AND STA 'R2' 61+00 TO
70+00

DESIGNED BY
CHECKED BY
DRAFTED BY

DATE
TIME

9/30/2013 1:56 PM

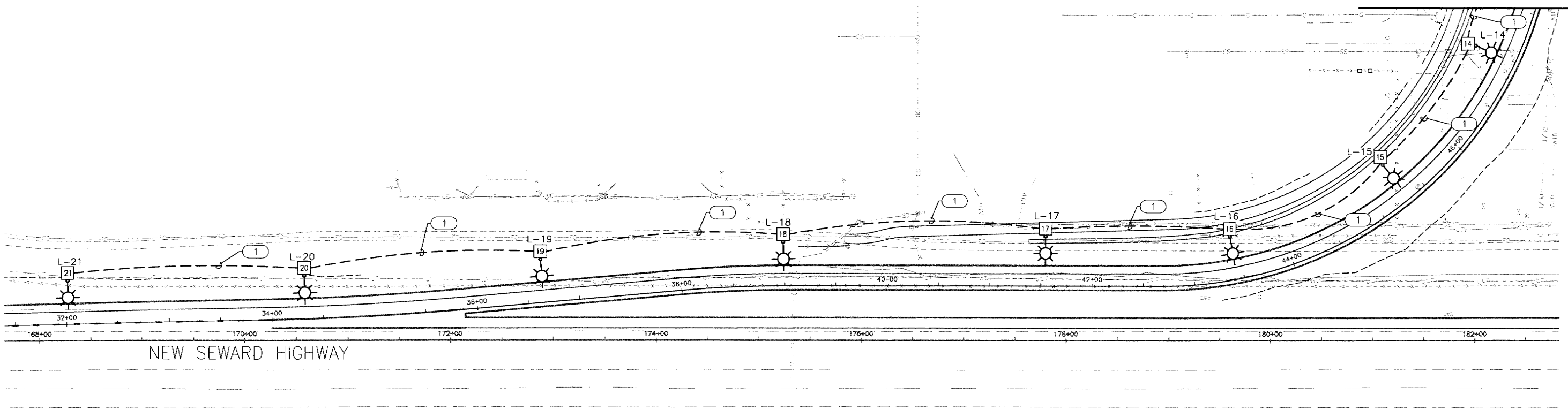
SCALE
P21

LAYOUT
P21

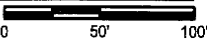
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	P21	P23

MATCHLINE - STATION 'R1' 47+50



1 LIGHTING STA 'R1' 47+50 TO 32+00
P21 SCALE: 1"=50'-0"



WIRING SCHEDULE		
TAG	CONDUIT	WIRE
1	2 IN	1-3C#6

PS&E REVIEW 9/27/2013

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EDC, INC

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

LIGHTING STA 'R1'
47+50 TO 32+00

DESIGNED BY
CHECKED BY
DRAFTED BY

XREFS

SCALE

LAYOUT P22

DATE TIME
9/30/2013 3:29 PM

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ROY

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	P22	P23

ELECTROLIER SCHEDULE												
POLE	STATION	OFFSET	WATTS	VOLTS	TYPE	DISTRIBUTION	ARM LENGTH	POLE LENGTH	MTG HEIGHT	BASE	NOTE	POLE
L-1	"S" 294+45.0	61.8 L	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-1
L-2	"S" 294+45.0	49.8 R	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-2
L-3	"S" 296+25.7	61.8 L	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-3
L-4	"S" 296+25.7	49.8 R	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-4
L-5	"S" 298+05.7	61.8 L	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-5
L-6	"S" 298+05.7	49.8 R	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-6
L-7	"S" 299+85.8	59.3 L	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-7
L-8	"S" 299+85.8	49.8 R	400	480	120 LED	M-C-3	15'	40.0'	40.0	SLIP	1	L-8
L-9	"R2" 61+51.5	44.8 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-9
L-10	"R2" 63+22.4	44.8 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-10
L-11	"R2" 64+84.2	54.7 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-11
L-12	"R2" 68+26.6	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-12
L-13	"R2" 69+69.0	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-13
L-14	"R1" 46+98.1	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-14
L-15	"R1" 44+81.1	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-15
L-16	"R1" 43+43.1	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-16
L-17	"R1" 41+54.6	48.5 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-17
L-18	"R1" 39+98.7	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-18
L-19	"R1" 36+55.3	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-19
L-20	"R1" 34+32.7	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-20
L-21	"R1" 32+01.7	42.0 L	400	480	HPS	M-C-3	15' DAVIT	40.0'	40.0	FRANG	2	L-21
STATIONING IS APPROXIMATE, POSITION SHOULD BE VERIFIED BY FIELD ENGINEER NOTE 1: PILE FOUNDATION PER MASS. NOTE 2: PILE FOUNDATION PER P8.												

JUNCTION BOX SCHEDULE			
J-BOX#	STATION	OFFSET	TYPE
0A	"S" 292+53.7	128.6 R	1A
0B	"S" 300+98.2	73.6 R	1A
1	"S" 294+45.0	61.8 L	1A
2	"S" 294+45.0	49.8 R	1A
3	"S" 296+25.7	61.8 L	1A
4	"S" 296+25.7	49.8 R	1A
5	"S" 298+05.7	61.8 L	1A
6	"S" 298+05.7	49.8 R	1A
7	"S" 299+85.8	59.3 L	1A
8	"S" 299+85.8	49.8 R	1A
9	"R2" 61+51.5	44.8 L	1A
10	"R2" 63+22.4	44.8 L	1A
11	"R2" 64+84.2	54.7 L	1A
12	"R2" 68+26.6	42.0 L	1A
13	"R2" 69+69.0	42.0 L	1A
14	"R1" 46+98.1	42.0 L	1A
15	"R1" 44+81.1	42.0 L	1A
16	"R1" 43+43.1	42.0 L	1A
17	"R1" 41+54.6	48.5 L	1A
18	"R1" 39+98.7	42.0 L	1A
19	"R1" 36+55.3	42.0 L	1A
20	"R1" 34+32.7	42.0 L	1A
21	"R1" 32+01.7	42.0 L	1A
NOTE: STATIONING IS APPROXIMATE, POSITION SHOULD BE VERIFIED BY FIELD ENGINEER			

LUMINAIRE PERFORMANCE CRITERIA	
POLE TYPE	DAVIT
LUMINAIRE TYPE	M-C-3
LAMP	HPS
WATTAGE	400
STYLE	OFFSET
ARM LENGTH	15' DAVIT
AIMING ANGLE	25
NUMBER OF LANES	1
LANE WIDTH	12 FT
MEDIAN WIDTH	0 Ft
MOUNTING HEIGHT	45 Ft
SPACING	240 Ft
SETBACK	30 Ft
LIGHT LOSS FACTOR	0.85
AVERAGE LUMINANCE	0.90 cd/m ²
UNIFORMITY (AVE/MIN)	1.29:1
UNIFORMITY (MAX/MIN)	2.14:1
VEILING LUMINANCE	0.22

LUMINAIRE PERFORMANCE CRITERIA	
POLE TYPE	MAST ARM
LUMINAIRE TYPE	M-C-3
LAMP	LED
LED COUNT	120
STYLE	COBRA HEAD
ARM LENGTH	15 FT
AIMING ANGLE	0
NUMBER OF LANES	3
LANE WIDTH	12 FT
MEDIAN WIDTH	0 Ft
MOUNTING HEIGHT	40 Ft
SPACING	180 Ft
SETBACK	15 FT
LIGHT LOSS FACTOR	0.80
AVERAGE LUMINANCE	0.91 cd/m ²
UNIFORMITY (AVE/MIN)	2.20:1
UNIFORMITY (MAX/MIN)	3.33:1
VEILING LUMINANCE	0.19

LUMINAIRE SCHEDULE		
MANUFACTURER	GE OR APPROVED EQUAL	BETA OR APPROVED EQUAL
MODEL	M400A-PLUS OR APPROVED EQUAL	LEDWAY OR APPROVED EQUAL
WATTAGE	400	274 (120-LED)
LIGHT SOURCE	HPS	4000K LED
VOLTAGE	480	480
BALLAST TYPE	MAG-REG	700MA DRIVER
PE CONTROL	NONE	NONE
IGNITOR MOUNTING	PLUG-IN	NONE
LENS TYPE	FLAT GLASS	CUT OFF
IES DISTRIBUTION TYPE	MC3	MC3
FILTER	CHARCOAL W/ ELASTOMER GASKET	NONE
UL LISTED	YES	YES

LAMP SCHEDULE	
MANUFACTURER	SYLVANIA OR APPROVED EQUAL
MODEL	LU400 OR APPROVED EQUAL
BULB	ET18
BASE	E39
ANSI SPEC NUMBER	S51
LAMP FINISH	CLEAR
OPERATING POSITION	UNIVERSAL
AVERAGE RATED LIFE	30000 HOURS
INITIAL LUMENS	50000
MEAN LUMENS	45000
CRI	21
CCT	2100

FOUNDATION SCHEDULE			
	STATION ALIGNMENT	OFFSET	STRUCTURE
LC-B	'S' 292+48.7	128.6 R	TYPE 1A LOAD CENTER, MOA
LC-C	'S' 300+93.2	73.6 R	TYPE 1A LOAD CENTER, DOT

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SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

SCHEDULES

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SCALE

LAYOUT
P23

DATE TIME
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	P23	P23

LOAD CENTER "B" SUMMARY: TYPE 1A INSTALLATION										
LOAD CENTER LOCATION: OLD SEWARD AND SCOOTER						POWER SOURCE: CEA				
SERVICE: SINGLE PHASE, 3 WIRE, 480/240V W/GND NEUTRAL						METER SOCKET REQUIRED: Y				
LOAD	MAIN BREAKERS		CONTACTOR		CONTROL		P. E. LOCATION:			
A	480V	2 POLE	100A	600V	12 POLE	30A	PE	LOAD CENTER		
POLE	AMP/TRIP	DESCRIPTION		KVA	AØ	BØ	KVA	DESCRIPTION	AMP/TRIP	POLE
1	20/2	L1-L8 ODD		0.4	0.5		0.1	PHOTOCELL	15/1	2
3				0.4		0.4	0.0			4
5	20/2	L1-L8 EVEN		0.4	0.4		0.0			6
7				0.4		0.4	0.0		8	
9				0.0	0.0		0.0			10
11				0.0		0.0	0.0			12
13				0.0	0.0		0.0			14
15				0.0		0.0	0.0			16
17				0.0	0.0		0.0			18
19				0.0		0.0	0.0			20
					0.9	0.8				
TOTAL KVA= 1.7 AMPS AT 480V= 3.5										

LOAD CENTER "C" SUMMARY: TYPE 1A INSTALLATION										
LOAD CENTER LOCATION: SCOOTER AVE						POWER SOURCE: CEA				
SERVICE: SINGLE PHASE, 3 WIRE, 480/240V W/GND NEUTRAL						METER SOCKET REQUIRED: Y				
LOAD	MAIN BREAKERS			CONTACTOR		CONTROL	P. E. LOCATION:			
A	480V	2 POLE	100A	600V	12 POLE	30A	PE	LOAD CENTER		
POLE	AMP/TRIP	DESCRIPTION		KVA	AØ	BØ	KVA	DESCRIPTION	AMP/TRIP	POLE
1	20/2	L8-L13		1.3	1.4		0.1	PHOTOCELL	15/1	2
3				1.3		1.3	0.0			4
5	20/2	L14-L21		2.0	2.0		0.0			6
7				2.0		2.0	0.0		8	
9				0.0	0.0		0.0			10
11				0.0		0.0	0.0			12
13				0.0	0.0		0.0			14
15				0.0		0.0	0.0			16
17				0.0	0.0		0.0			18
19				0.0		0.0	0.0			20
					3.4	3.3				
TOTAL KVA= 6.7										
AMPS AT 480V= 14.0										

VOLTAGE DROP CALCULATION - LC-B							
1-PH, 2W CONFIGURATION, 1 COPPER CONDUCTOR PER PHASE IN RMC. TEMPERATURE RATING 75°C.							
CKT #	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	VOLTAGE	POWER FACTOR	LOAD (KVA)	TOTAL (AMPS)	SEG. (%VD)
1,3	8	950	480	0.8	0.8	1.7	0.47
5,7	8	800	480	0.8	0.8	1.7	0.40

VOLTAGE DROP CALCULATION - LC-C							
1-PH, 2W CONFIGURATION, 1 COPPER CONDUCTOR PER PHASE IN RMC. TEMPERATURE RATING 75°C.							
CKT #	SEGMENT SIZE (AWG)	SEGMENT LENGTH (FT)	VOLTAGE	POWER FACTOR	LOAD (KVA)	TOTAL (AMPS)	SEG. (%VD)
1,3	6	950	480	0.8	2.5	5.2	0.89
5,7	6	1500	480	0.8	4.0	8.3	2.23

SHORT CIRCUIT CALCULATION - LC-B	
240V AC IN A 1-PH, 2W CONFIGURATION WITH A POWER-FACTOR OF 1.00, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75°C.	
TRANSFORMER RATING	50KVA
VOLTAGE	480/240V
TRANSFORMER IMPEDANCE	1.2%
LET-THRU SHORT CIRCUIT CURRENT	8,681A
LENGTH TO FAULT	40FT
SERVICE CONDUCTOR SIZE	1/0 AWG ALUMINUM
CONDUIT	NON-MAGNETIC
"C" CONSTANT	9317
LINE-LINE FAULT	6,624A
LINE-NEUTRAL FAULT	6,741A

SHORT CIRCUIT CALCULATION - LC-C	
240V AC IN A 1-PH, 2W CONFIGURATION WITH A POWER-FACTOR OF 1.00, 1 COPPER CONDUCTOR PER PHASE IN A RMC. TEMPERATURE RATING 75°C.	
TRANSFORMER RATING	50KVA
VOLTAGE	480/240V
TRANSFORMER IMPEDANCE	1.2%
LET-THRU SHORT CIRCUIT CURRENT	8,681A
LENGTH TO FAULT	40FT
SERVICE CONDUCTOR SIZE	1/0 AWG ALUMINUM
CONDUIT	NON-MAGNETIC
"C" CONSTANT	9317
LINE-LINE FAULT	6,624A
LINE-NEUTRAL FAULT	6,741A

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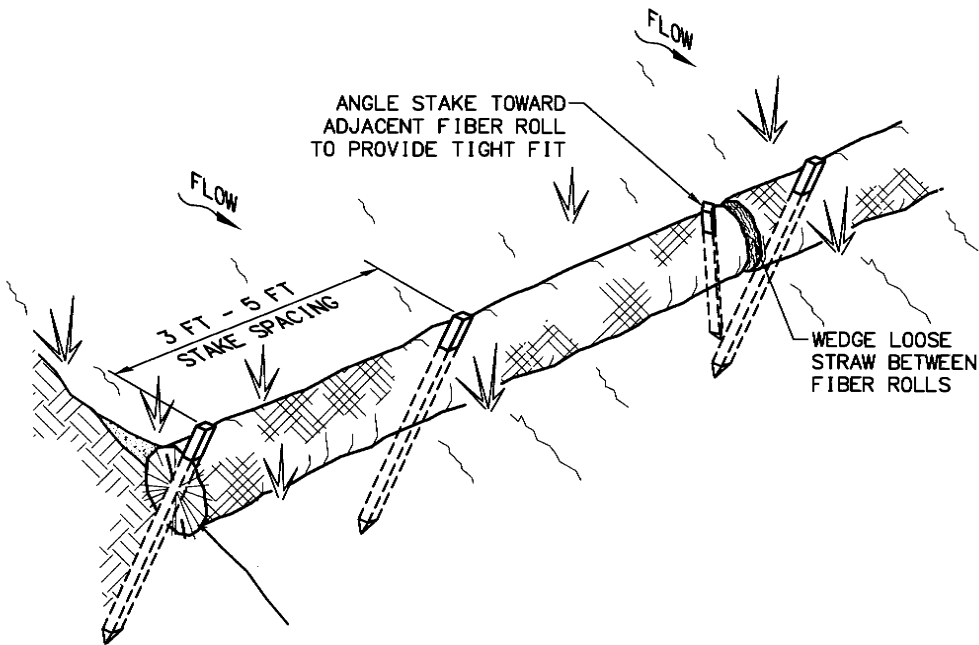
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

ILLUMINATION LOAD
CENTER SCHEDULES AND
CALCULATIONS

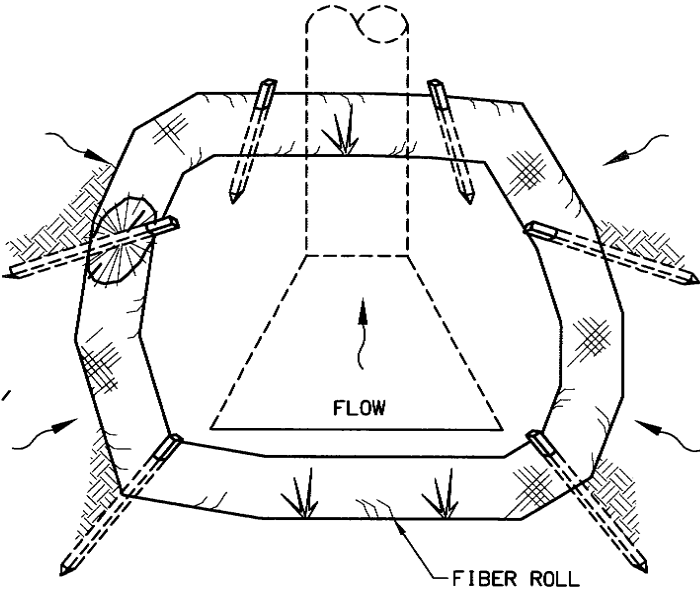
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GENERAL EROSION AND SEDIMENT CONTROL NOTE:

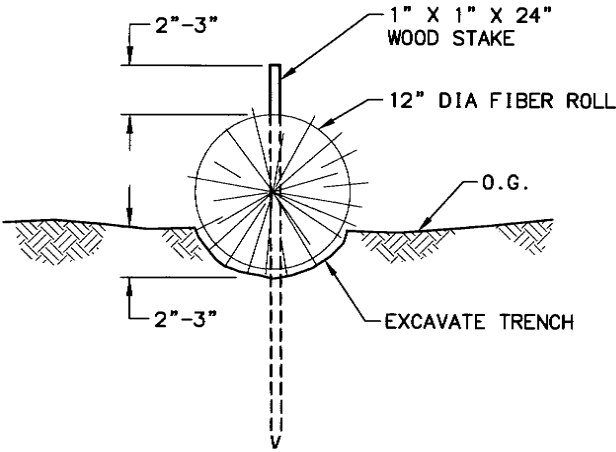
- 1. EROSION AND SEDIMENT CONTROL DETAILS ARE CONCEPTUAL ONLY. COMMERCIALY AVAILABLE TREATMENTS OR ALTERNATE EROSION AND SEDIMENT CONTROL DESIGNS MAY BE SUBSTITUTED WITH APPROVAL BY THE ENGINEER. AS A MINIMUM REQUIREMENT THE PROJECT WILL FOLLOW BMPS ACCORDING TO THE ALASKA STORM WATER GUIDE.
- 2. PLACE 4" OF TOPSOIL, AND SEED FROM SLOPE CATCH TO BOTTOM OF BASE COURSE, IN AREAS BETWEEN ROADWAYS AND PATHWAYS, IN DEPRESSED MEDIANS, AND IN AREAS DISTURBED BY OBLITERATION OF ROADWAYS, APPROACHES, OR AS DIRECTED BY THE ENGINEER. SEED OTHER AREAS WITHIN THE ROW DISTURBED BY CONSTRUCTION AS DIRECTED BY THE ENGINEER.
- 3. INSTALL BONDED FIBER MATRIX ON FINAL CUT SLOPES AND FINAL EMBANKMENT SLOPES STEEPER THAN 3:1 AND GREATER THAN 5 FEET IN HEIGHT.
- 4. INSTALL FIBER ROLLS FOR SLOPE STABILIZATION ON SLOPES THAT ARE 25 FEET OR LONGER.
- 5. APPLY TEMPORARY SEEDING, CHEMICAL STABILIZATION, OR OTHER STABILIZATION MEASURE TO ANY SLOPE THAT, DUE TO CONSTRUCTION SEQUENCING, WILL BE LEFT UNDISTURBED FOR 14 DAYS OR LONGER.
- 6. INSTALL AN ENERGY DISSIPATER OR A RIPRAP DOWNDRAIN AT THE OUTLET OF CROSS CULVERTS AND AT STORM DRAIN OUTFALLS AS SHOWN IN PLANS. ENERGY DISSIPATER AND RIPRAP DOWNDRAINS ARE PERMANENT FEATURES AND SHALL BE LEFT IN PLACE. ENERGY DISSIPATERS AND DOWNDRAINS SHALL BE INSTALLED IN CONJUNCTION WITH THE CULVERT INSTALLATION.
- 7. PRIOR TO WINTER SHUTDOWN APPLY CHEMICAL STABILIZATION TO ANY EXPOSED SLOPES WHICH HAVE NOT BEEN STABILIZED BY ANY OTHER MEANS SUCH AS TEMPORARY OR PERMANENT SEEDING.
- 8. REMOVE ALL TEMPORARY EROSION AND SEDIMENT CONTROL FEATURES AFTER GRASS COVER HAS BEEN ESTABLISHED. RESHAPE AFFECTED SLOPES AND DITCHES AND SEED ANY NEWLY DISTURBED AREAS. LEAVE MEDIAN DITCH DIKES IN PLACE.
- 9. EROSION AND SEDIMENT CONTROL MEASURES WILL BE EVALUATED BY THE ENGINEER BASED ON EFFECTIVENESS. THOSE FOUND INEFFECTIVE MUST BE REPLACED OR REPAIRED WITHIN 24 HOURS FOLLOWING NOTIFICATION.



JOINT DETAIL



TYPICAL SEDIMENT TRAP DETAIL



TRENCH DETAIL

LEGEND	
	CLEARING LIMITS/PRESERVE EXISTING VEGETATION (AK-16)
	SEDIMENT TRAP (AK-15)
	FLOW ARROW
	INLET PROTECTION (AK-19)
	OUTLET PROTECTION (AK-5)
	SURFACE ROUGHENING (AK-12)
	SILT FENCE (AK-18)
	FR FIBER ROLL (AK-8)

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	Q1	Q12

633(1)

SILT FENCE

SHEET	LOCATION	OFFSET	LENGTH(LF)	REMARKS
Q7	"R1" 39+68 TO 42+76	LT	306	
Q8	"R1" 42+76 TO 48+68	LT	452	
Q8	"S" 299+20 TO 300+19	RT	104	
Q11	"S" 298+90 TO 299+20	RT	71	
Q11	"S" 295+82 TO 298+27	RT	244	
Q11	"S" 293+10 TO 295+78	LT	323	
Q11	"S" 292+79 TO 295+22	RT	249	
Q11	"S" 298+35 TO 298+86	RT	51	
Q12	"S" 292+38 TO 292+79	RT	41	

619(10)

MANUFACTURED INLET PROTECTION SYSTEMS

SHEET	STATION	OFFSET	QUANTITY (EA)	REMARKS
Q11	"S" 295+97	45 LT	1	
Q11	"S" 296+05	27 RT	1	
Q12	"S" 292+50	45 LT	1	
Q12	"S" 292+61	30 RT	1	
Q12	"OS" 35+45	32 LT	1	
Q12	"OS" 35+45	45 RT	1	
Q12	"OS" 38+52	38 LT	1	
Q12	"OS" 38+68	45 RT	1	

FIBER ROLL NOTES:

- 1. FIBER ROLLS SHALL BE INSTALLED PRIOR TO ANY CONSTRUCTION OTHER THAN SURVEYING, UNLESS OTHERWISE NOTED OR APPROVED BY THE ENGINEER.
- 2. REMOVAL OF TRAPPED SEDIMENT TO AN AREA NOT SUBJECT TO EROSION IS REQUIRED WHEN THE SEDIMENT HAS REACHED A HEIGHT OF 5". WHEN APPROVED BY THE ENGINEER, AFTER REMOVING STAKES, FIBER ROLLS MAY BE LEFT IN PLACE TO DECOMPOSE, OR MAY BE SPREAD AND SEEDDED.

PS&E REVIEW 10/01/13

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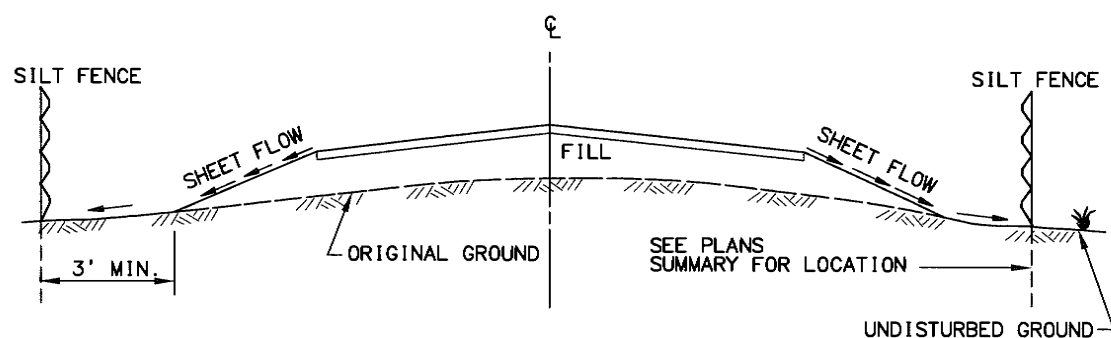
HATTENBURG DILLEY & LINNELL

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL
FIBER ROLL AND SEDIMENT TRAP
DETAILS

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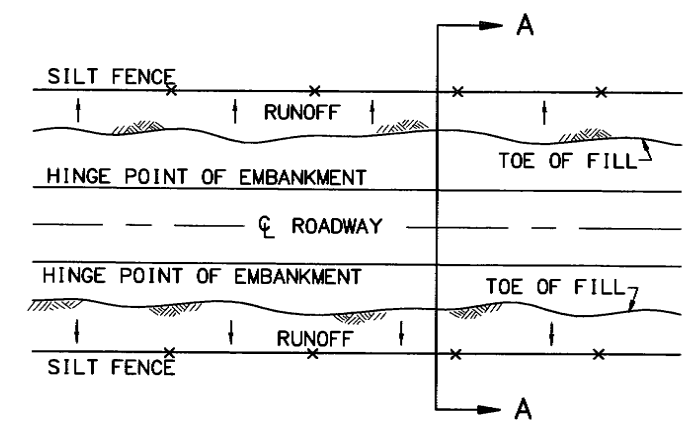
REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	Q2	Q12



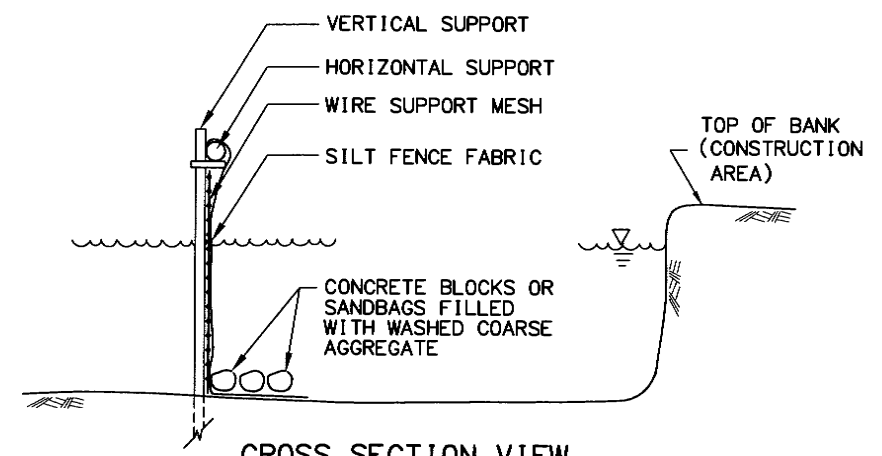
SECTION A-A

GENERAL NOTES:

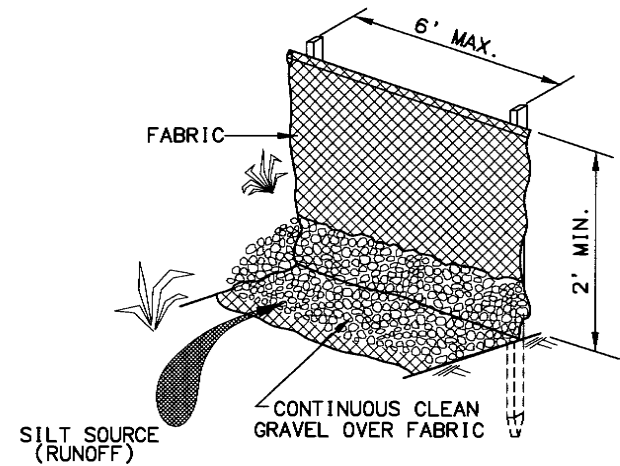
1. INSTALLATION AND APPLICATION SHALL BE IN ACCORDANCE WITH THE ADOT/PF SEDIMENT AND EROSION CONTROL MANUAL (<http://www.dot.state.ak.us>).
2. SILT FENCE FABRIC SHALL BE OVERLAPPED 6" AT FENCE SUPPORTS.
3. SILT FENCE FABRIC SHALL BE TAUT, NOT LOOSE OR FOLDED.
4. THE CONTRACTOR SHALL INSPECT AND REPAIR FENCE AFTER EACH STORM EVENT.
5. SILT FENCE SHALL BE PLACED ON SLOPE CONTOURS TO MAXIMIZE PONDING EFFICIENCY.



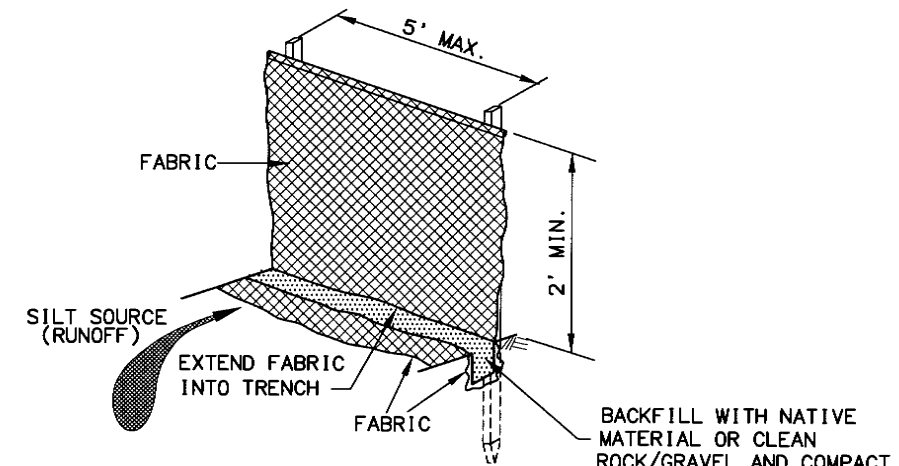
PLAN VIEW



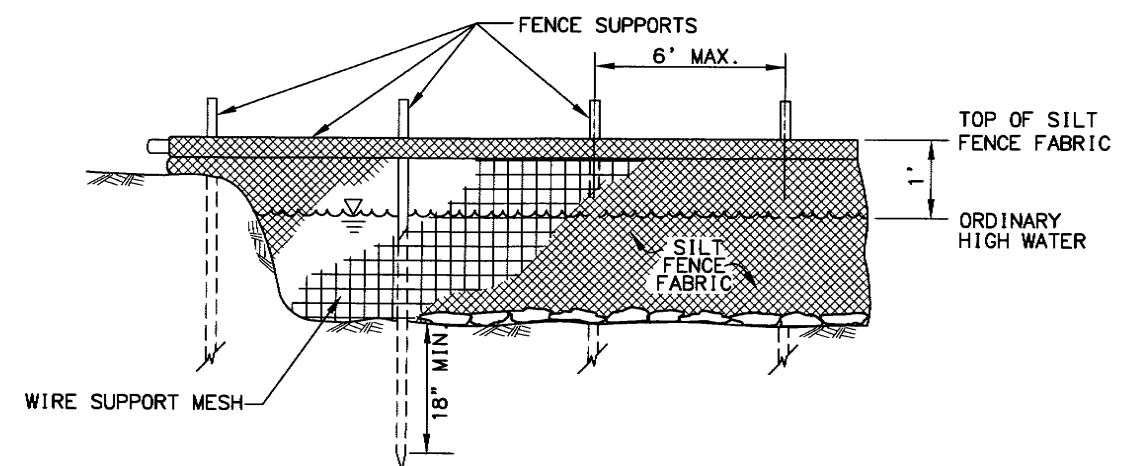
CROSS SECTION VIEW



BACKFILL ALTERNATE



TRENCH ALTERNATE

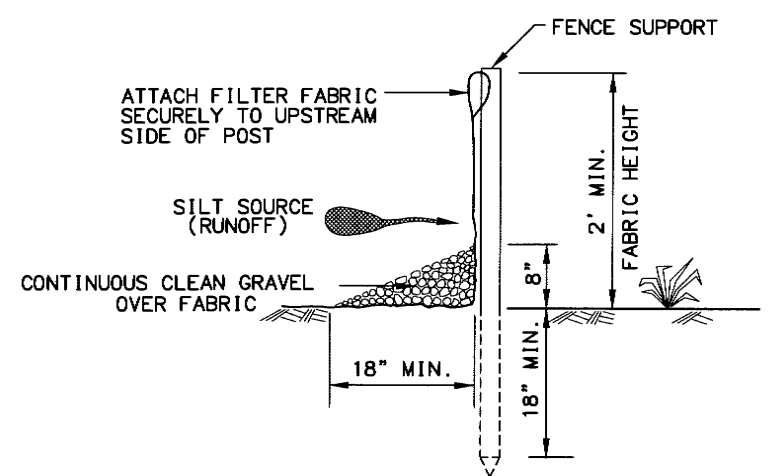


TYPICAL

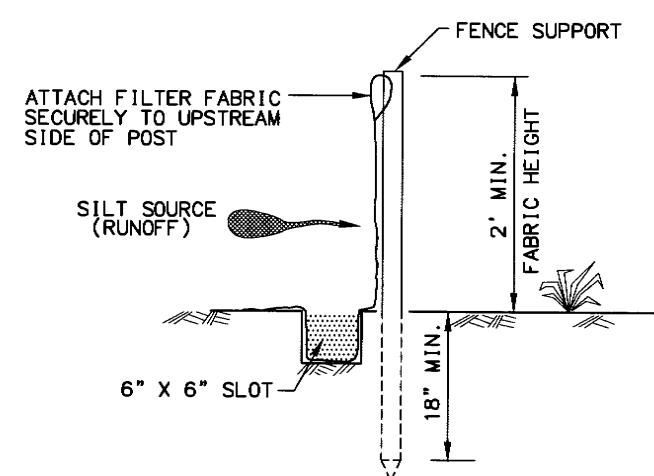
FOR USE IN WATER

1. SECURE THE ENDS OF SILT FENCE TO THE BANK.
2. SILT FENCE FRAMEWORK SHALL BE NOMINAL 2" X 2" WOOD, 3" DIAMETER WOOD, #6 REBAR WITH PVC SLEEVES, 3/4" IRON PIPE, OR OTHER POSTS CAPABLE OF SUPPORTING THE INSTALLATION, AS APPROVED BY THE ENGINEER.
3. THE WIRE MESH SUPPORT SHALL BE WWF 6" X 6", W1 X W1 OR AS APPROVED BY THE ENGINEER.
4. FENCE ANCHORED IN STANDING WATER SHALL HAVE THE BOTTOM ANCHORED WITH SANDBAGS OR CONCRETE BLOCKS AS DETAILED ABOVE.

PS&E REVIEW 10/01/13



BACKFILL CROSS SECTION



TRENCH CROSS SECTION

FOR USE ON LAND

1. FENCE SHALL BE PLACED AT LEAST 3' FROM THE TOE OF EMBANKMENT OR EXCAVATION AREAS, OR AS DIRECTED BY THE ENGINEER.
2. ACCUMULATION OF SEDIMENT BEHIND SILT FENCE SHALL BE REMOVED WHEN DEPTH REACHES 9". REMOVED SEDIMENT SHALL BE DEPOSITED IN AN AREA THAT WILL NOT CONTRIBUTE SEDIMENT OFF-SITE AND CAN BE PERMANENTLY STABILIZED.

WORK IN PROGRESS
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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

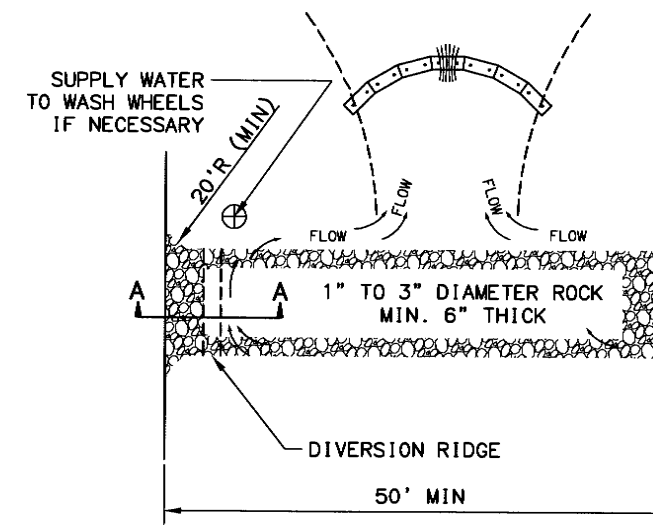
EROSION & SEDIMENT CONTROL
SILT FENCE DETAILS

619(5)

SEDIMENT RETENTION FIBER ROLLS (SRFRS)

SHEET	STATION	OFFSET	LENGTH (LF)	REMARKS
Q5	"WL" 149+36	54 LT	35.0	SEDIMENT TRAP
Q5	"WL" 151+69	33 LT	27.0	
Q5	"WL" 152+69	33 LT	27.0	
Q5	"WL" 153+69	33 LT	27.0	
Q5	"WL" 154+69	35 LT	27.0	
Q6	"WL" 155+69	35 LT	27.0	
Q6	"WL" 156+69	39 LT	27.0	
Q6	"WL" 157+69	41 LT	27.0	
Q6	"WL" 158+69	45 LT	27.0	
Q6	"WL" 159+69	46 LT	27.0	
Q6	"WL" 160+69	48 LT	27.0	
Q6	"WL" 161+69	49 LT	27.0	
Q6	"WL" 162+69	53 LT	27.0	
Q6	"WL" 163+69	52 LT	27.0	
Q6	"WL" 164+69	50 LT	27.0	
Q6	"WL" 165+69	48 LT	27.0	
Q6	"WL" 166+69	48 LT	27.0	
Q6	"WL" 167+69	47 LT	27.0	
Q7	"WL" 168+69	51 LT	27.0	
Q7	"WL" 169+69	50 LT	27.0	
Q7	"WL" 170+69	54 LT	27.0	
Q7	"WL" 171+69	57 LT	27.0	
Q7	"WL" 172+69	69 LT	27.0	
Q7	"WL" 174+22	89 LT	35.0	SEDIMENT TRAP
Q7	"WL" 176+55	123 LT	35.0	SEDIMENT TRAP
Q8	"R1" 47+59	22 RT	35.0	SEDIMENT TRAP
Q10	"WL" 207+96	37 LT	35.0	SEDIMENT TRAP
Q11	"S" 295+95	60 RT	35.0	SEDIMENT TRAP
Q11	"S" 296+57	71 LT	35.0	SEDIMENT TRAP
Q11	"S" 298+99	59 RT	35.0	SEDIMENT TRAP
Q11	"S" 299+76	33 LT	35.0	SEDIMENT TRAP
Q11	"S" 299+89	39 RT	35.0	SEDIMENT TRAP
Q12	"S" 292+53	65 LT	35.0	SEDIMENT TRAP
Q12	"S" 292+57	59 RT	35.0	SEDIMENT TRAP
Q12	"OS" 35+55	55 RT	35.0	SEDIMENT TRAP
Q12	"OS" 40+09	81 LT	35.0	SEDIMENT TRAP
Q12	"OS" 41+92	39 RT	35.0	SEDIMENT TRAP
Q12	"OS" 44+12	77 LT	35.0	SEDIMENT TRAP

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	Q4	Q12

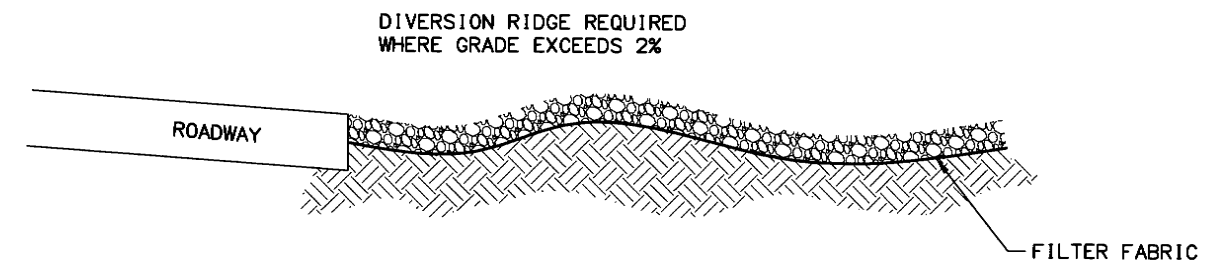


NOTE:
USE SANDBAGS OR OTHER
APPROVED METHODS TO
CHANNELIZE RUNOFF TO
BASIN AS REQUIRED.

NOTES:

1. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAY. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
2. WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
3. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR SEDIMENT BASIN.

PLAN VIEW



SECTION A-A

TEMPORARY VEHICLE TRACKING ENTRANCE/EXIT DETAIL

PS&E REVIEW 10/01/13

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

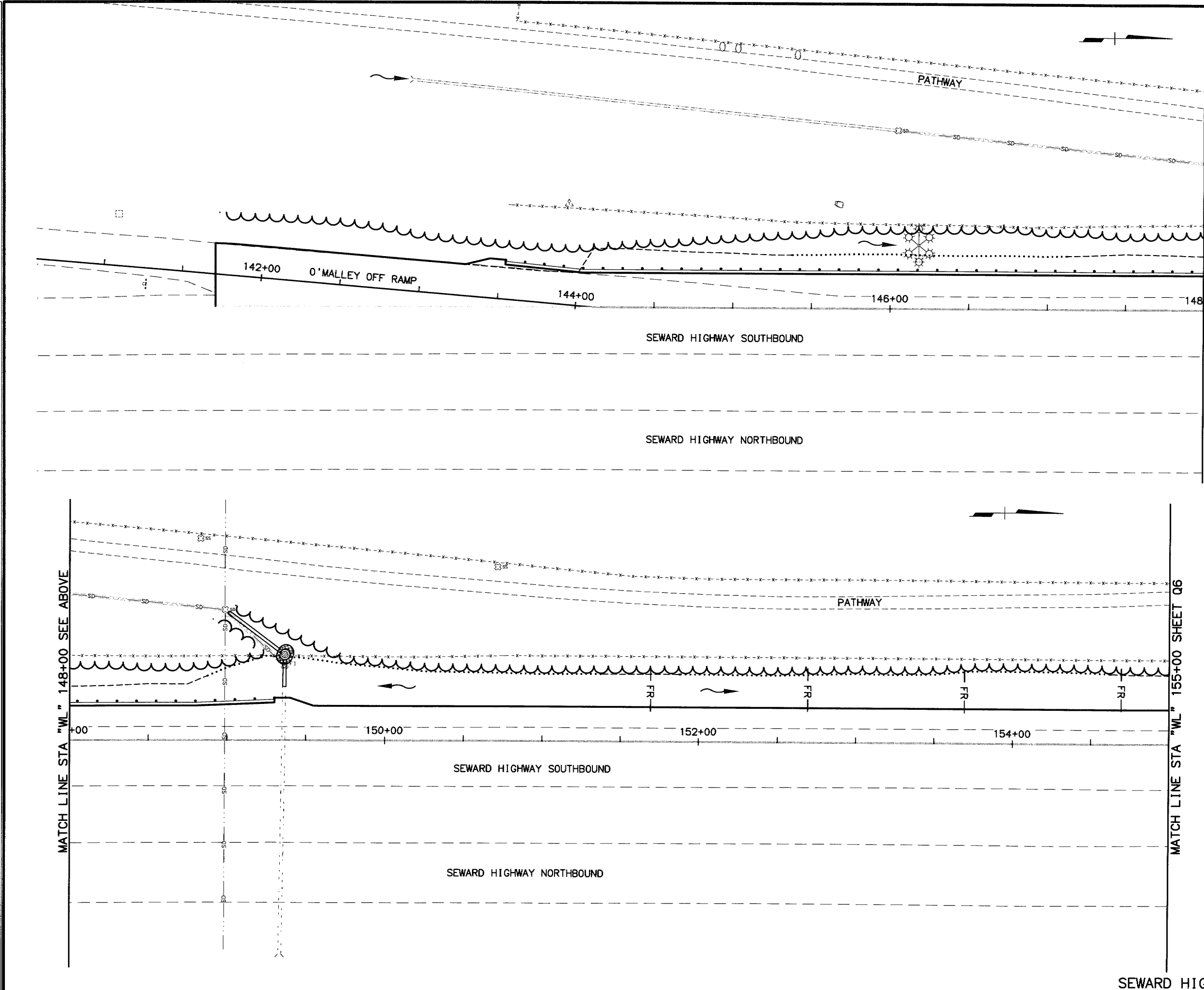
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL VEHICLE TRACKING DETAIL

WORK IN PROGRESS
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current concepts as of ____
(See date @ left border)

HATTENBURG DILLEY & LINNELL

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DRAWING LOCATION
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DATE TIME
LAYOUT SCALE
DESIGNED BY DIF
CHECKED BY JMF
DRAWN BY CDB



MATCH LINE STA "WL" 148+00 SEE BELOW

SEWARD HIGHWAY "WL"

SHEET NO.	TOTAL SHEETS	
Q5	Q12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD

SEWARD HIGHWAY

O'MALLEY RD
PS&E REVIEW 10/01/13

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current concepts as of
(See date @ left border)

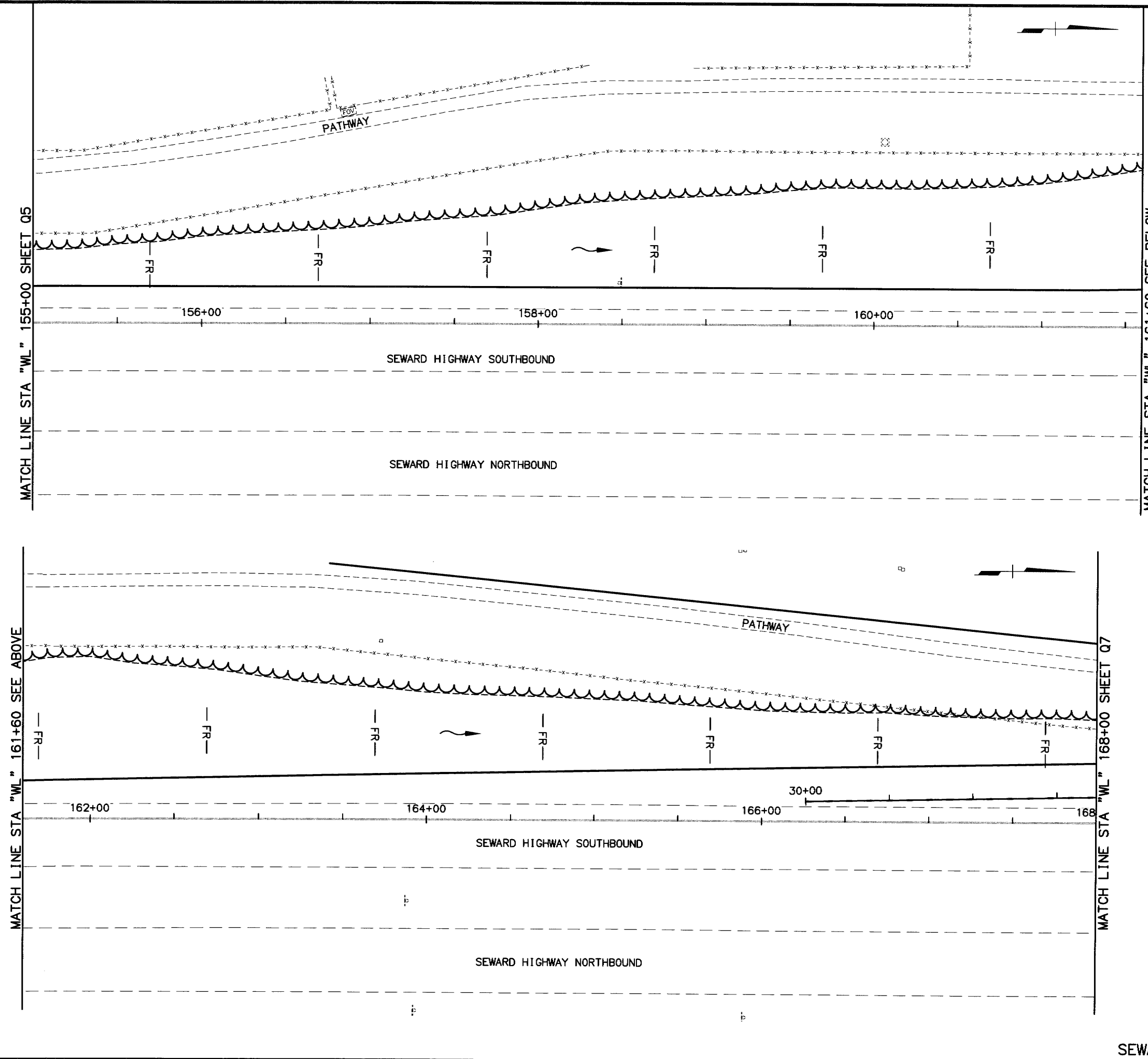
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL

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DESIGNED BY DIF
CHECKED BY JMF
DRAWN BY CDB
SHEETS
SCALE
LAYOUT
SEWARD
DATE
TIME
10/1/2013 11:50 AM



SHEET NO.	TOTAL SHEETS	
Q6	Q12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD

SEWARD HIGHWAY

0' MALLEY RD

PS&E REVIEW 10/01/13

WORK IN PROGRESS
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(See date @ left border)

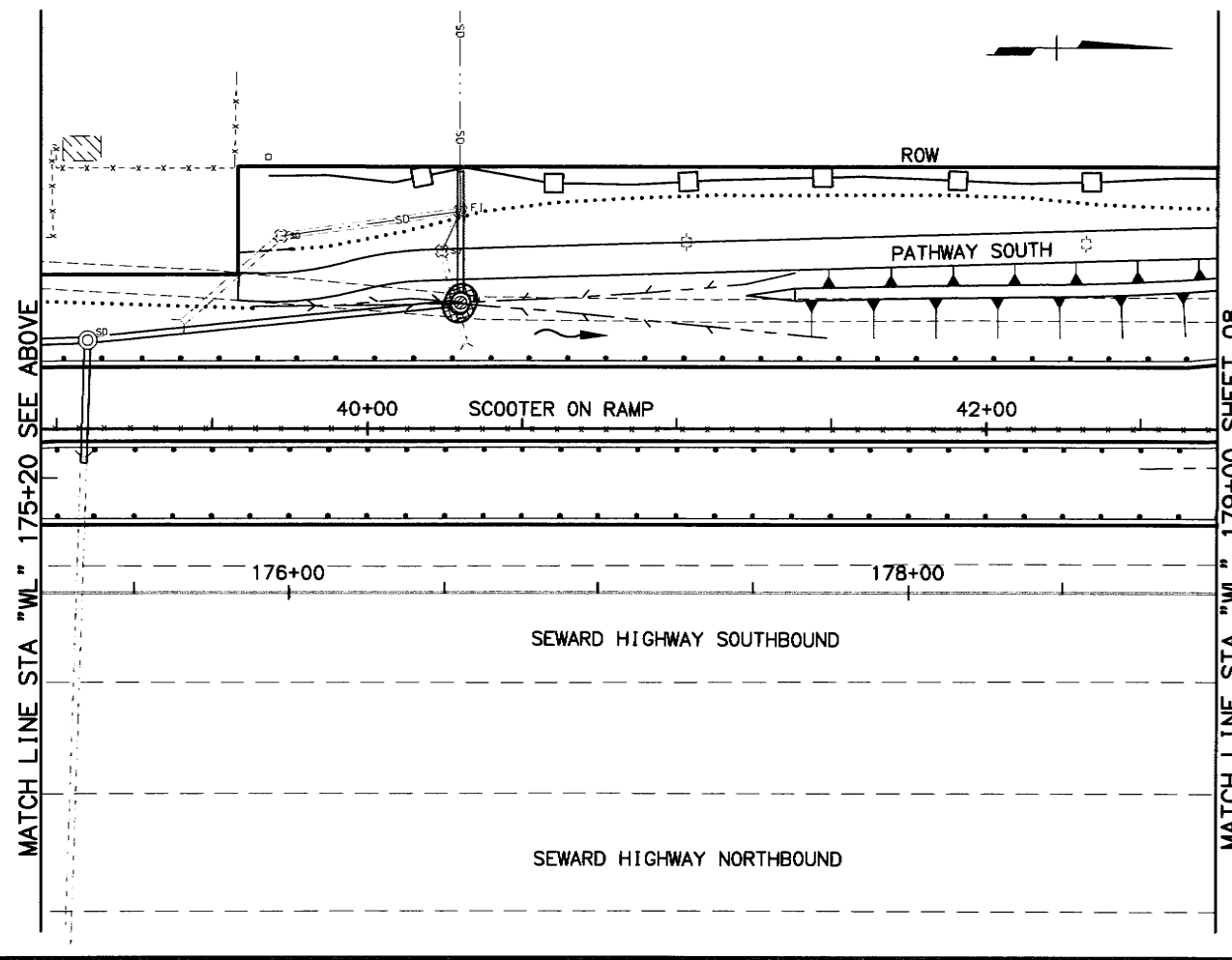
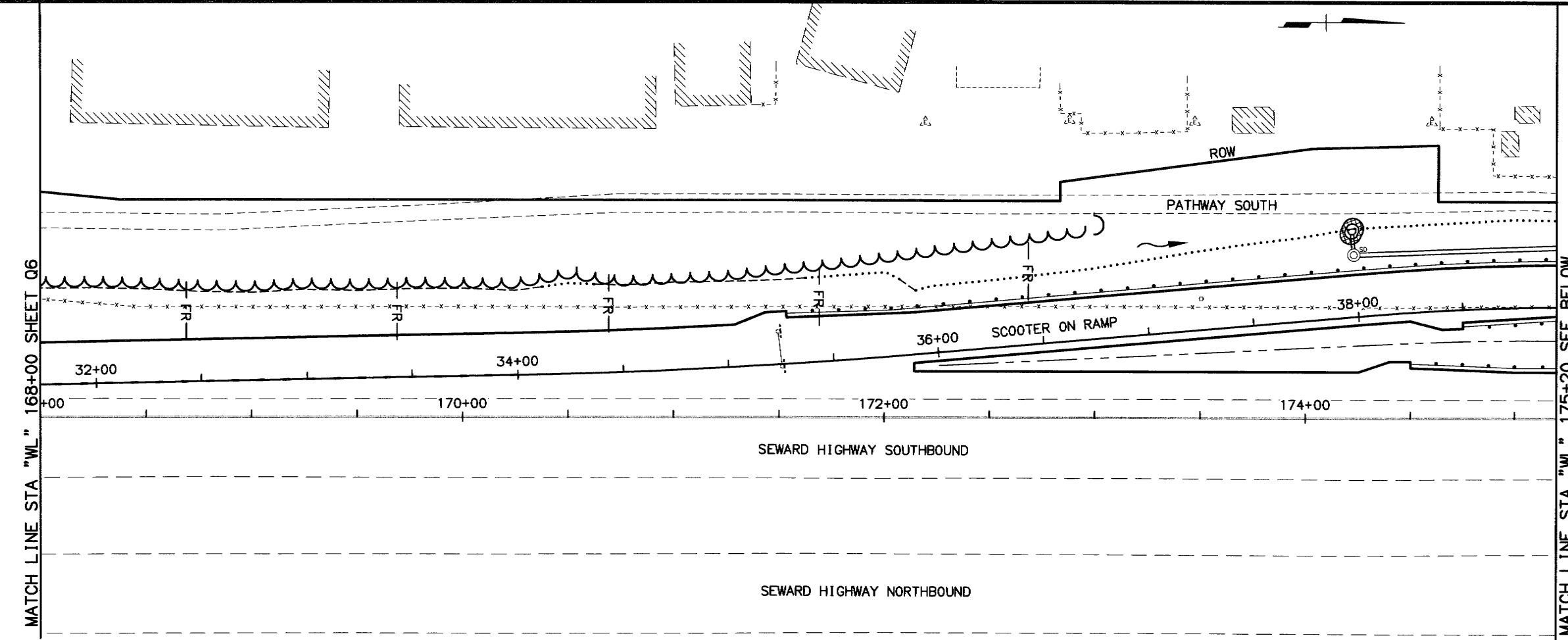
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL

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DESIGNED BY DIF
CHECKED BY CDB
DATE 10/1/2013 11:50 AM
LAYOUT SEWARD
SCALE
SHEETS
XREFS



MATCH LINE STA "WL" 175+20 SEE BELOW

SHEET NO.	TOTAL SHEETS	
Q7	Q12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

O'MALLEY RD
PS&E REVIEW 10/01/13

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current concepts as of
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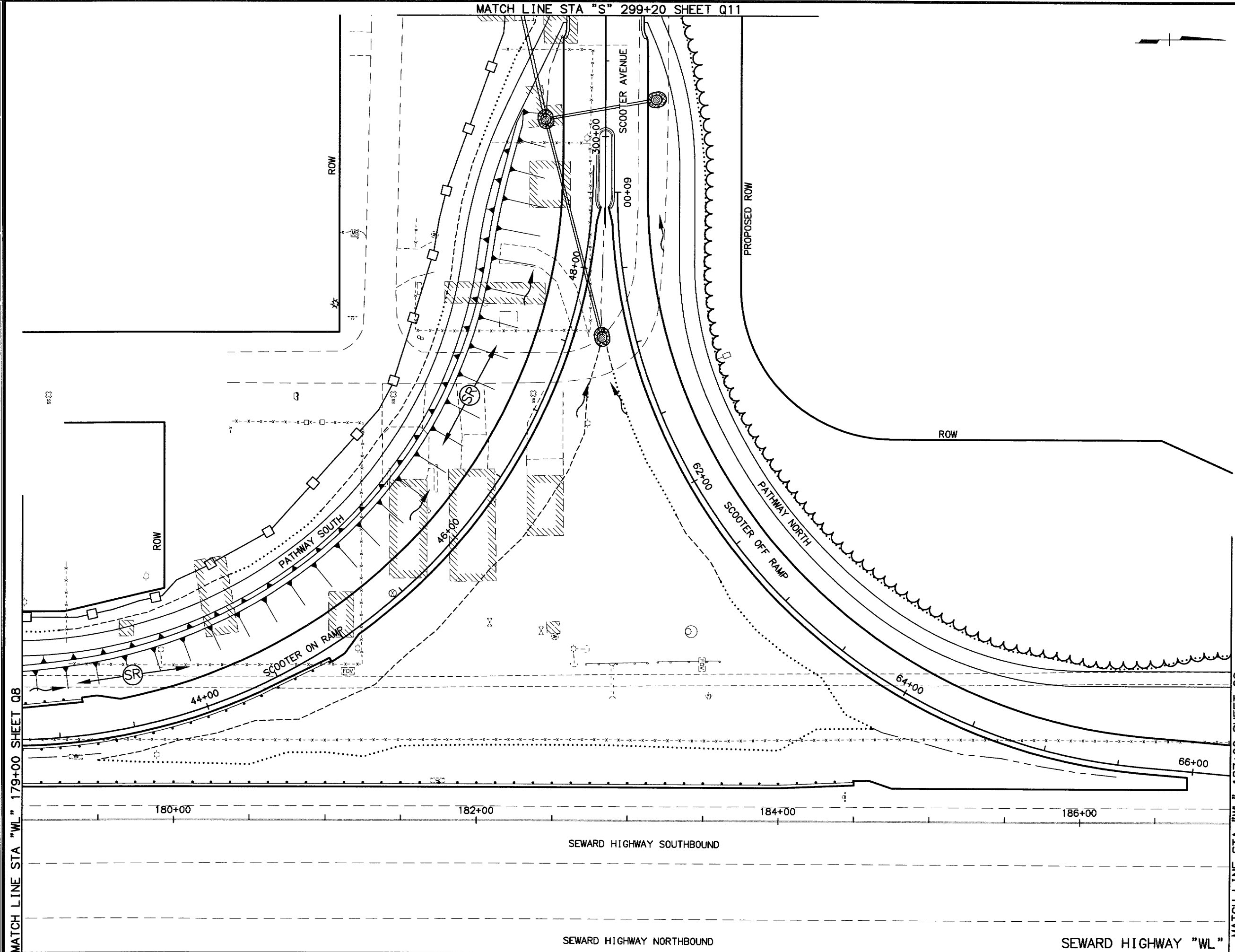
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL

SEWARD HIGHWAY "WL"

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DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY CDB
SCALE
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SEWARD
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TIME
10/1/2013 11:50 AM
VIEW
SCALE
DATE
TIME
10/1/2013 11:50 AM
DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY CDB



SHEET NO.	TOTAL SHEETS	
Q8	Q12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD

SEWARD HIGHWAY

O'MALLEY RD

PS&E REVIEW 10/01/13

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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

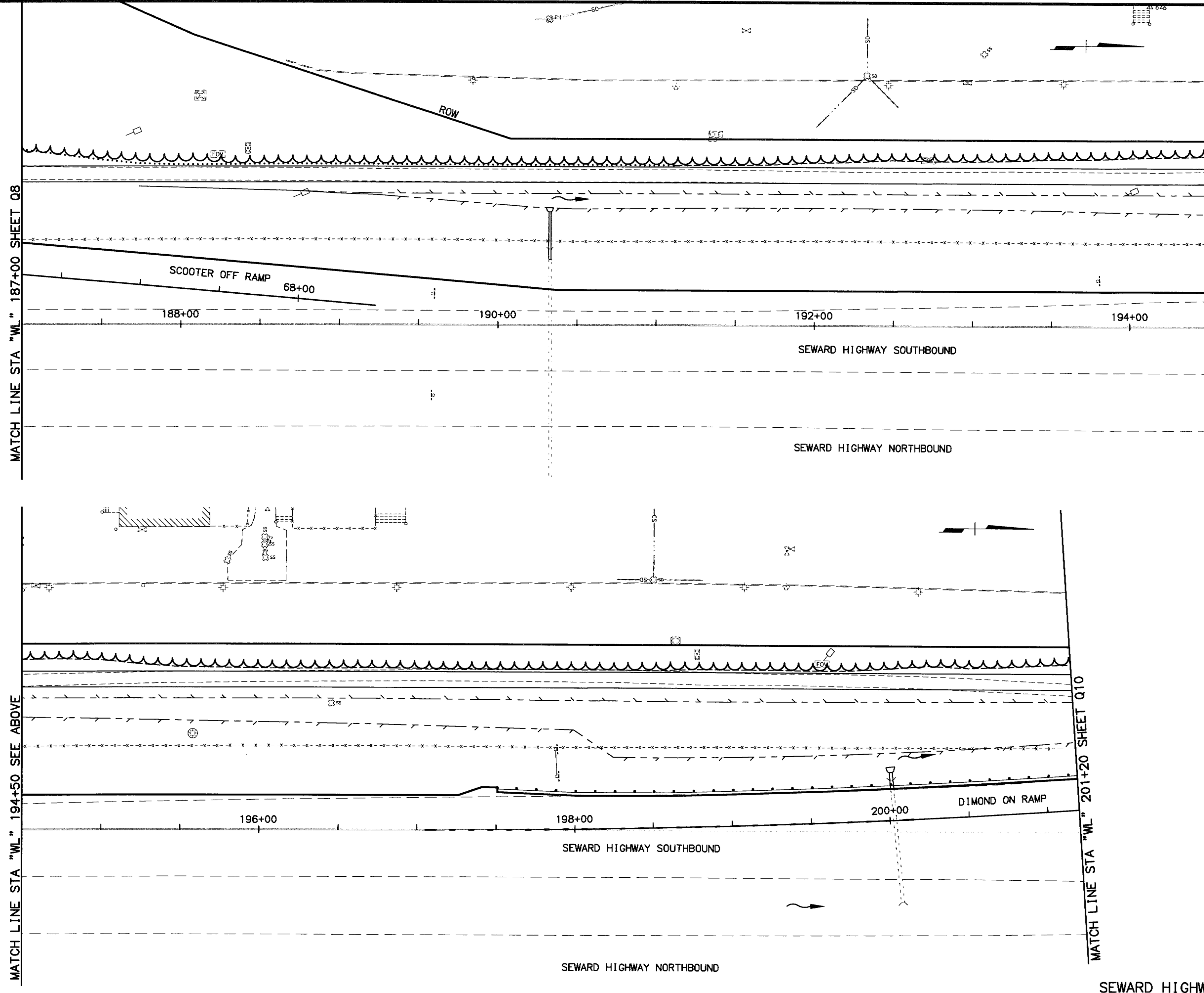
EROSION & SEDIMENT CONTROL

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LAYOUT SCALE XREFS DESIGNED BY DIF CHECKED BY JMF DRAFTED BY CUB

DRAWING LOCATION

MATCH LINE STA "WL" 187+00 SHEET Q8

MATCH LINE STA "WL" 194+50 SEE ABOVE



MATCH LINE STA "WL" 194+50 SEE BELOW

MATCH LINE STA "WL" 201+20 SHEET Q10

SEWARD HIGHWAY "WL"

SHEET NO.	TOTAL SHEETS	
Q9	Q12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

O'MALLEY RD
PS&E REVIEW 10/01/13

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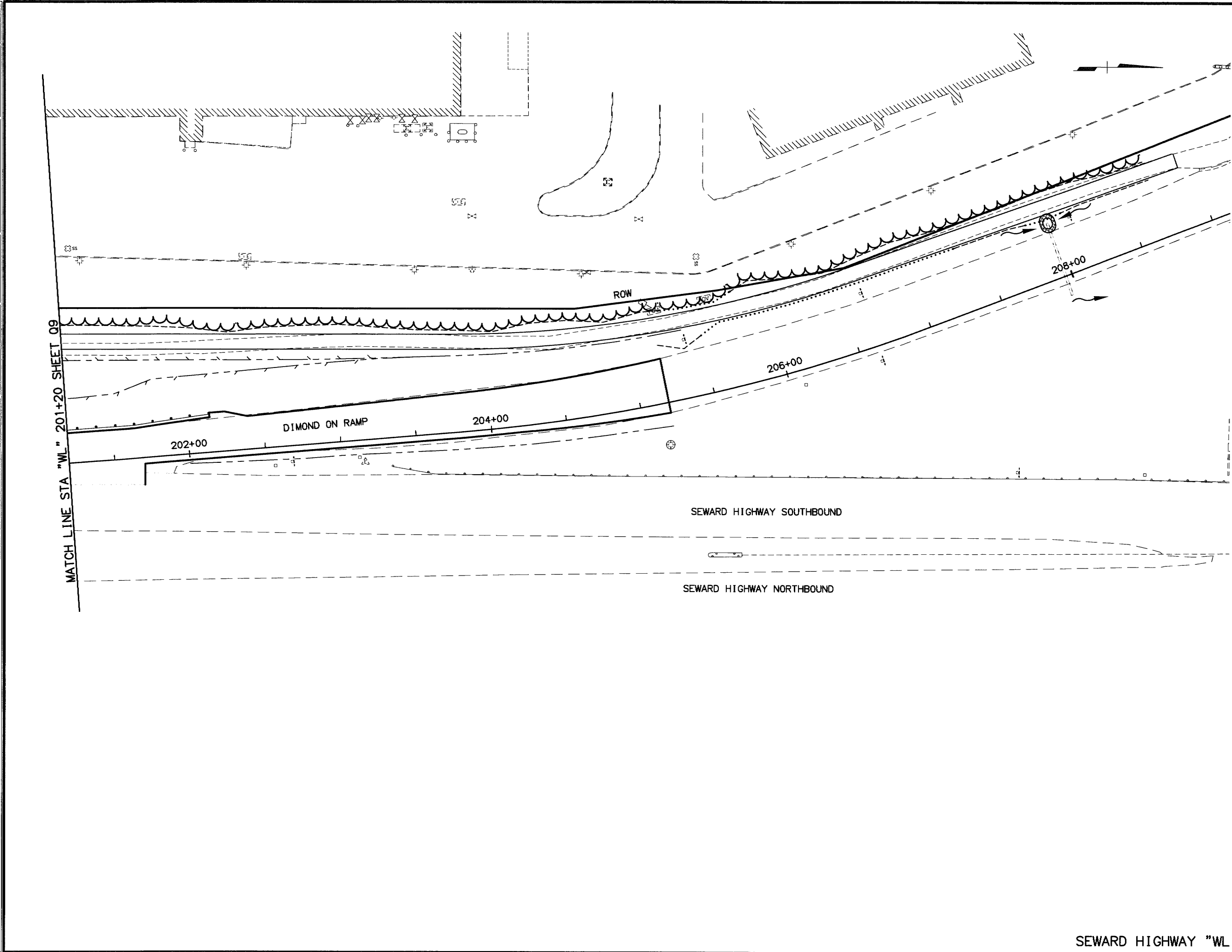
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL

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SHEET NO.		TOTAL SHEETS	
Q10		Q12	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD

SEWARD HIGHWAY

O'MALLEY RD
PS&E REVIEW 10/01/13

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(See date @ left border)

HATTENBURG DILLEY & LINNELL

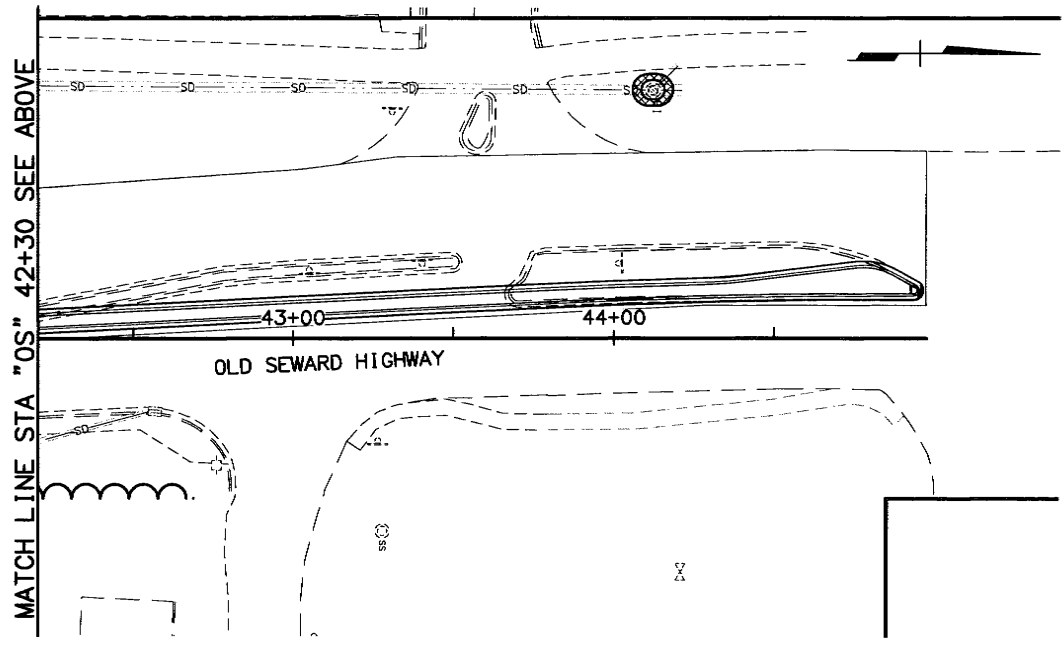
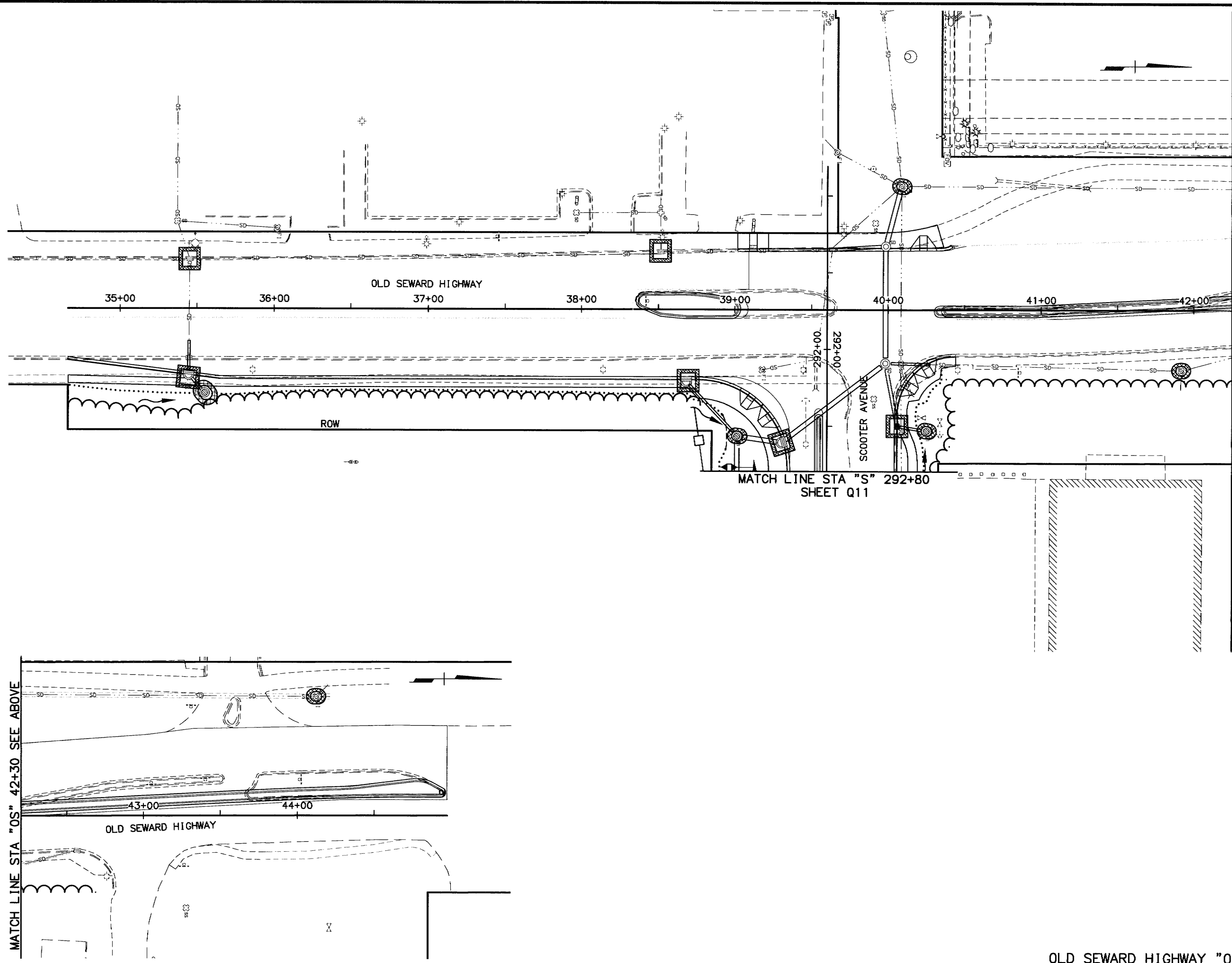
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL

SEWARD HIGHWAY "WL"

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DATE TIME
LAYOUT RAMP-92
SCALE
XREFS
DESIGNED BY DIF
CHECKED BY JMF
DRAFTED BY CDB



MATCH LINE STA "OS" 42+30 SEE BELOW

SHEET NO.		TOTAL SHEETS	
Q12		Q12	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

PS&E REVIEW 10/01/13

WORK IN PROGRESS

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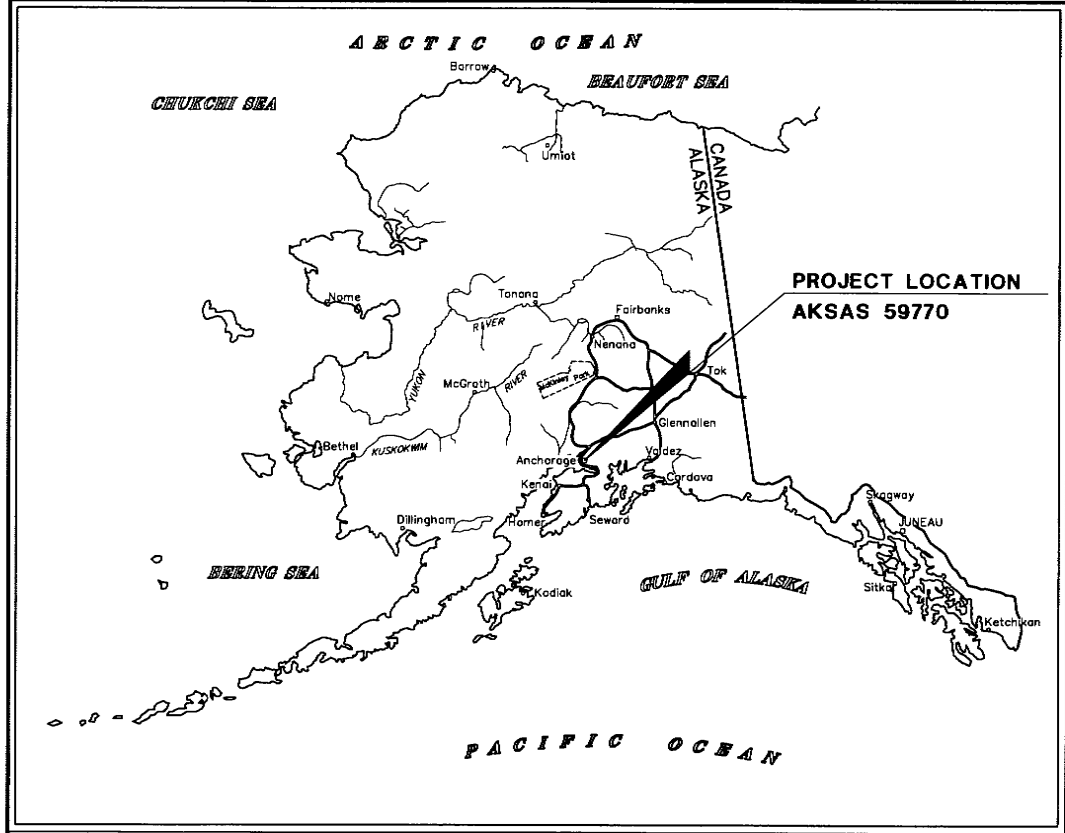
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

EROSION & SEDIMENT CONTROL

OLD SEWARD HIGHWAY "OS"



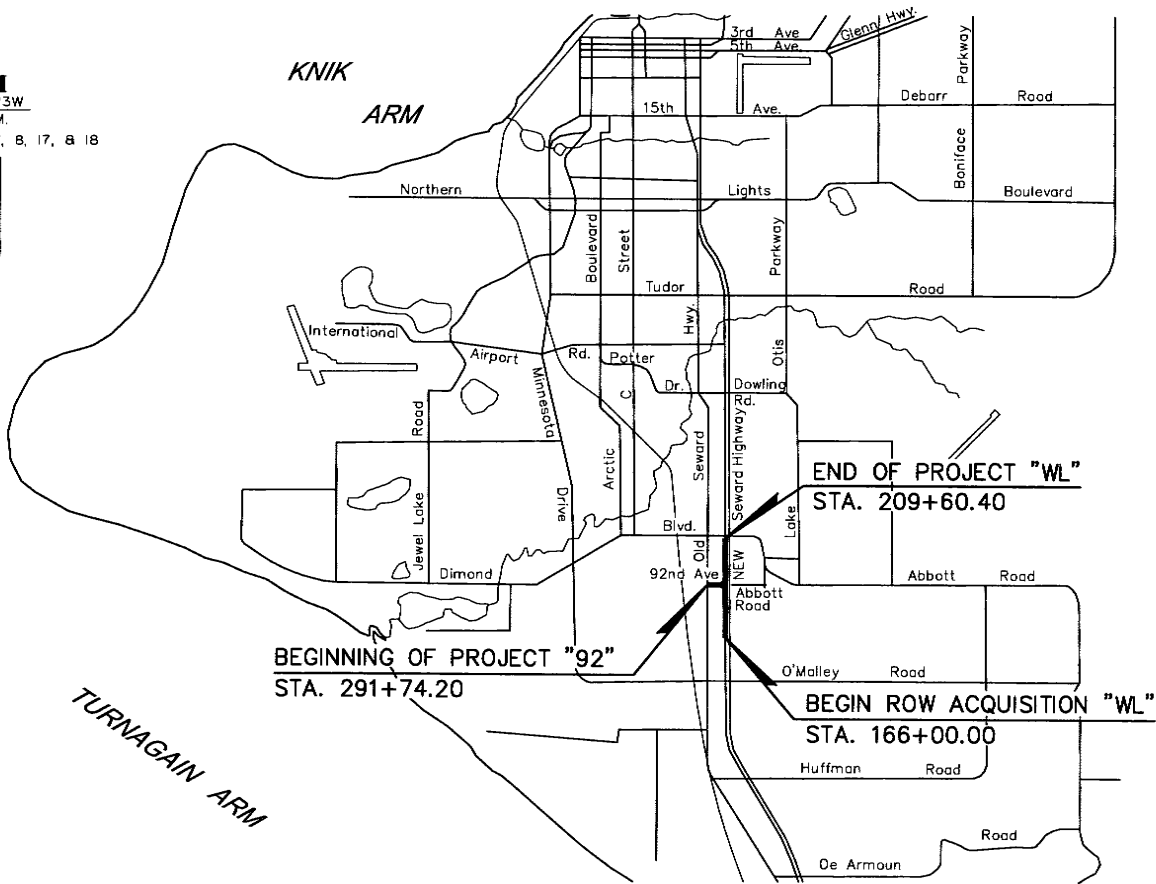
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
&
PUBLIC FACILITIES

RIGHT-OF-WAY MAP
ALASKA PROJECT
**SEWARD HIGHWAY:
92ND AVENUE
CONNECTOR**
59770

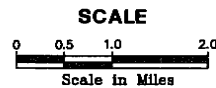
REVISION DATE: JUNE 4, 2013

**PRELIMINARY
ROW PLAN**

T12N R3W
S. 1/4
SEC. 7, 8, 17, & 18



PROJECT LENGTH 0.55 MILES



PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
AKSAS 59770	RI	RII

PLAT APPROVAL
PLAT APPROVED BY THE MUNICIPAL SURVEYOR
THIS _____ DAY OF _____ 20____

STEVE SCHMITT
MUNICIPAL SURVEYOR

PLAT APPROVED BY MUNICIPAL PLATTING AUTHORITY
THIS _____ DAY OF _____ 20____

JERRY T. WEAVER
PLATTING OFFICER

DEPARTMENT LOCATIONS SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF ALASKA AND THAT ALL RIGHT-OF-WAY CENTERLINE MONUMENT LOCATIONS HAVE BEEN ESTABLISHED AS INDICATED ON THE RIGHT-OF-WAY PLANS, ALL EXISTING FOUND SUBDIVISION MONUMENTS, PROPERTY CORNERS AND SECTION LINE MONUMENTATION AS INDICATED ON THE RIGHT-OF-WAY PLANS HAVE BEEN REFERENCED TO PROJECT SURVEY CONTROLS BY ME OR UNDER MY SUPERVISION.

DATE _____ REGISTRATION NUMBER _____

ROBERT M. KEINER

CONSULTANT RIGHT-OF-WAY SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF ALASKA AND THAT THIS PLAT WAS MADE BY ME OR UNDER MY SUPERVISION. THIS PLAT WAS BASED UPON THE MONUMENTS RECOVERED DURING THE DEPARTMENT'S LOCATIONS SURVEY FOR THIS PROJECT.

DATE _____ REGISTRATION NUMBER _____

JAMES H. SHARP

DEPARTMENT OF
TRANSPORTATION & PUBLIC FACILITIES

APPROVED _____, 20____
Date

REGIONAL CHIEF R/W AGENT

THIS SURVEY DOES NOT CONSTITUTE A
SUBDIVISION AS DEFINED BY AS 40.15.900(5).

LOCATED WITHIN SECTIONS 8, 17, AND 18,
T12N, R3W, SEWARD MERIDIAN, ALASKA

ANCHORAGE RECORDING DISTRICT

STATE BUSINESS - NO FEE

PROJECT DESIGNATION

AKSAS 59770

SHEET NO.

R2

TOTAL SHEETS

R11

EXISTING

PROPOSED

PLANTER

VENT

TANK VENT

WELL

SEPTIC

TANKS

Above Ground

Below Ground

SATELLITE DISH

PRIVATE SIGN

GAS PUMP

POST

BOULDER OR BOULDERS

LANDSCAPE LIGHT

DECIDUOUS TREE

CONIFER TREE

SHRUB OR SHRUBS

GOV'T SECTION CORNER

GOV'T 1/4 SECTION CORNER

GOV'T 1/16 SECTION CORNER

GOV'T SURVEY MONUMENT

GOV'T CONTROL STA.

PRIMARY MON. [BRASS/AL CAP]

SECONDARY CORNER

PRIMARY CENTERLINE MONUMENT

SECONDARY CENTERLINE MONUMENT

SURVEY CONTROL POINT

SECONDARY SURVEY CONT. POINT

GPS CONTROL POINT

BENCH MARK

ROCK MONUMENT

INTERNATIONAL BOUNDARY LINE

TOWNSHIP & RANGE LINE

SECTION LINE

1/4 SECTION LINE

1/16 SECTION LINE

CORPORATE or CITY LIMITS

SECTION LINE EASEMENT AND SECTION LINE-CENTERLINE INTERSECTION

RECOVERED

TO BE SET THIS PROJECT

HIGHWAY MILEPOST

RAILROAD MILEPOST

EXISTING RIGHT-OF-WAY

RIGHT-OF-WAY REQUIRED

STATION EQUATION

PROJECT CENTERLINE

EXISTING CENTERLINE

RAILROAD CENTERLINE

PROJECT RIGHT-OF-WAY LINE

EXISTING PROPERTY LINE

CONTROLLED ACCESS LINE

PERMIT LINE

EXISTING EASEMENT LINE

LIMIT OF CUT SLOPE

LIMIT OF FILL SLOPE

PROPOSED ROADWAY

EXISTING ROADWAY

NOISE BARRIER

FENCE

STONE FENCE

HEAD & WINGWALLS

GUARD RAIL EXISTING

PROPOSED

RETAINING WALL

TUNNEL

INTERMITTENT DRAINAGE

INTERCEPTOR DITCH

MARSHLAND

CREEK

RIVER

LAKE

RESERVOIR

CHANNEL CHANGE

PIPELINES:

SANITARY SEWER

OIL

GAS

WATER

STORM DRAIN

SIDEWALK

CONCRETE CURB

CONCRETE CURB & GUTTER

DRIVEWAY, APPROACH, & SIDEDRAIN

BRIDGE

RIPRAP

TELEPHONE

ELECTRIC

FIBER OPTIC

U.G. CABLE

U.G. DUCT

TELEPHONE MANHOLE

ELECTRIC MANHOLE

FOUNDATION

BUILDING

MANHOLE

FIRE HYDRANT

METER

PIPE CULVERT w/ END SECT.

UTILITY POLE

ELECTROLIER

UTILITY POLE WITH LUMINAIRE

POLE ANCHOR /w GUY

TRANSMISSION TOWER [WOOD]

TRANSMISSION TOWER [STEEL]

ELECTRICAL OUTLET

ELECTRICAL PEDESTAL

TELEPHONE PEDESTAL

CABLE T.V. PEDESTAL

EXISTING

PROPOSED

EXISTING

PROPOSED

33' SECTION LINE EASEMENT

50'

60+00

62+34.00

65+00

RIGHT-OF-WAY LINE

SECTION LINE

PROJECT CENTERLINE

50' SECTION LINE EASEMENT

281.00

6

7

5

8

ANCHORAGE RECORDING DISTRICT

DATE	REVISIONS	BY

STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION

&

PUBLIC FACILITIES

RIGHT-OF-WAY MAP

ALASKA PROJECT

STATE PROJECT NO. 59770

RIGHT-OF-WAY LEGEND SHEET

SEWARD HIGHWAY: 92nd AVENUE CONNECTOR

NEW SEWARD HIGHWAY TO OLD SEWARD HIGHWAY

DRAWN KMS

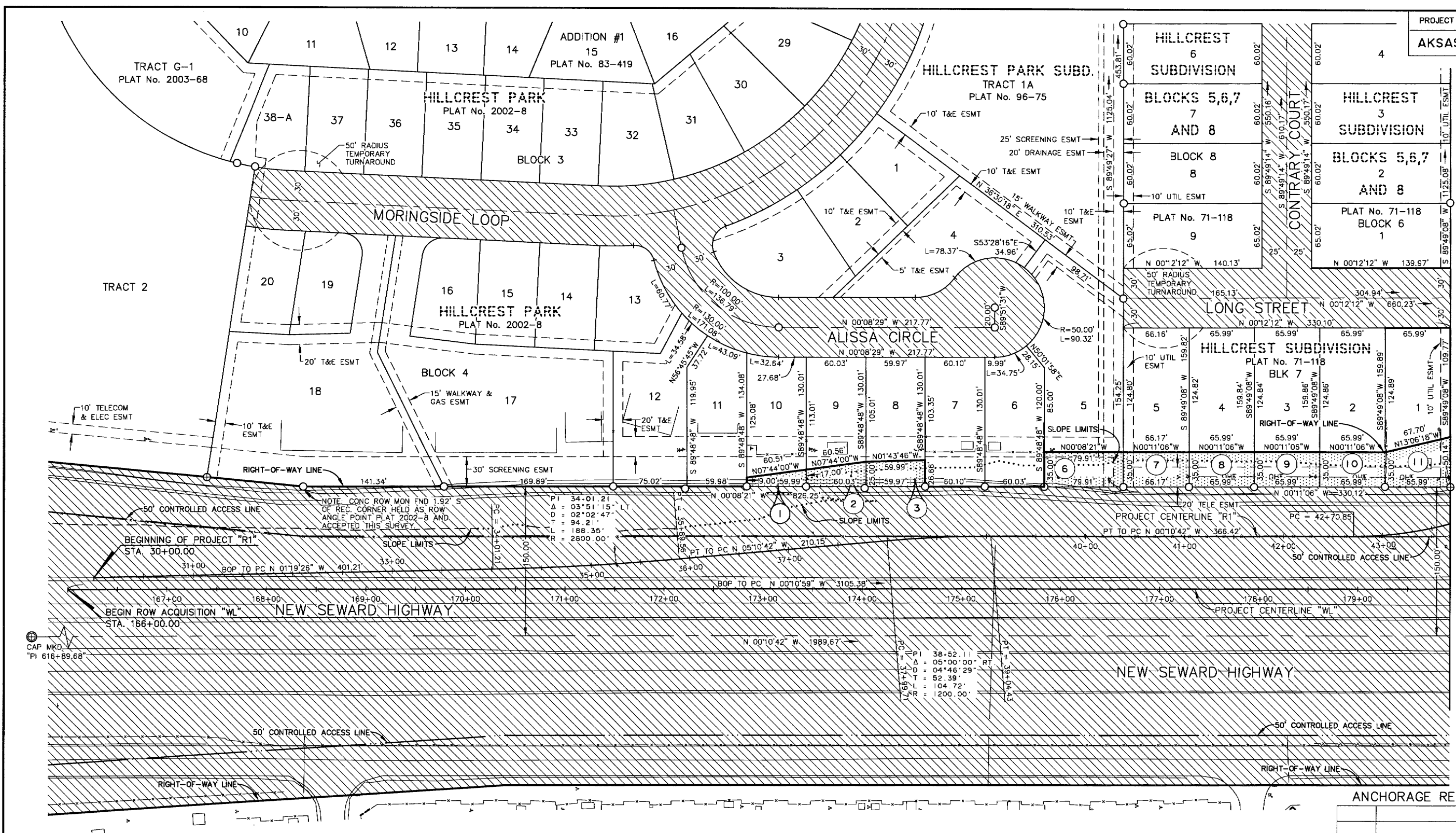
DATE 06/04/2013

SCALE 1" = 50'

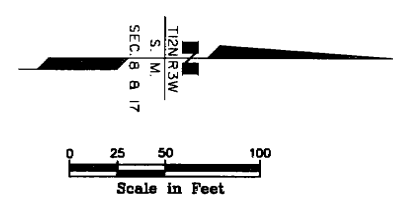
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DATE XX/XX/XXXX

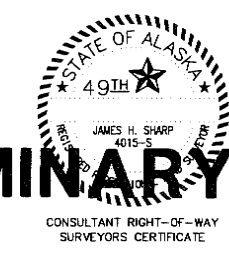
SHEET 2 OF 11



PARCEL NO.	INTEREST TO BE ACQUIRED	OWNER	LARGER PARCEL	TAKE INCLUDING EXISTING EASEMENT	NET TAKE	REMAINDER	RECORDED DOCUMENT NUMBER
11	FEE	RUBY L. STRATTON	10,551 SF	2,809 SF	2,809 SF	7,742 SF	
10	FEE	MAXWELL NICKERSON AND RUBY STRATTON	10,550 SF	2,310 SF	2,310 SF	8,240 SF	
9	FEE	EDDIE AND CORAZON STRONG	10,548 SF	2,310 SF	2,310 SF	8,238 SF	
8	FEE	EDDIE AND CORAZON STRONG	10,547 SF	2,310 SF	2,310 SF	8,237 SF	
7	FEE	EDDIE AND CORAZON STRONG	10,574 SF	2,316 SF	2,316 SF	8,258 SF	
6	FEE	B & J INVESTMENTS, LLC	18,423 SF	2,797 SF	2,797 SF	15,626 SF	
5	FEE	DELETED					
4	FEE	DELETED					
3	FEE	DAVID AND AIMEE MILLS	7,796 SF	1,549 SF	1,549 SF	6,247 SF	
2	FEE	FRED L. AND JUDY C. JACOBY	7,805 SF	1,261 SF	1,261 SF	6,544 SF	
1	FEE	MICHAEL J. RUSSO JR.	7,842 SF	780 SF	780 SF	7,062 SF	
PARCEL INFORMATION							



PRELIMINARY



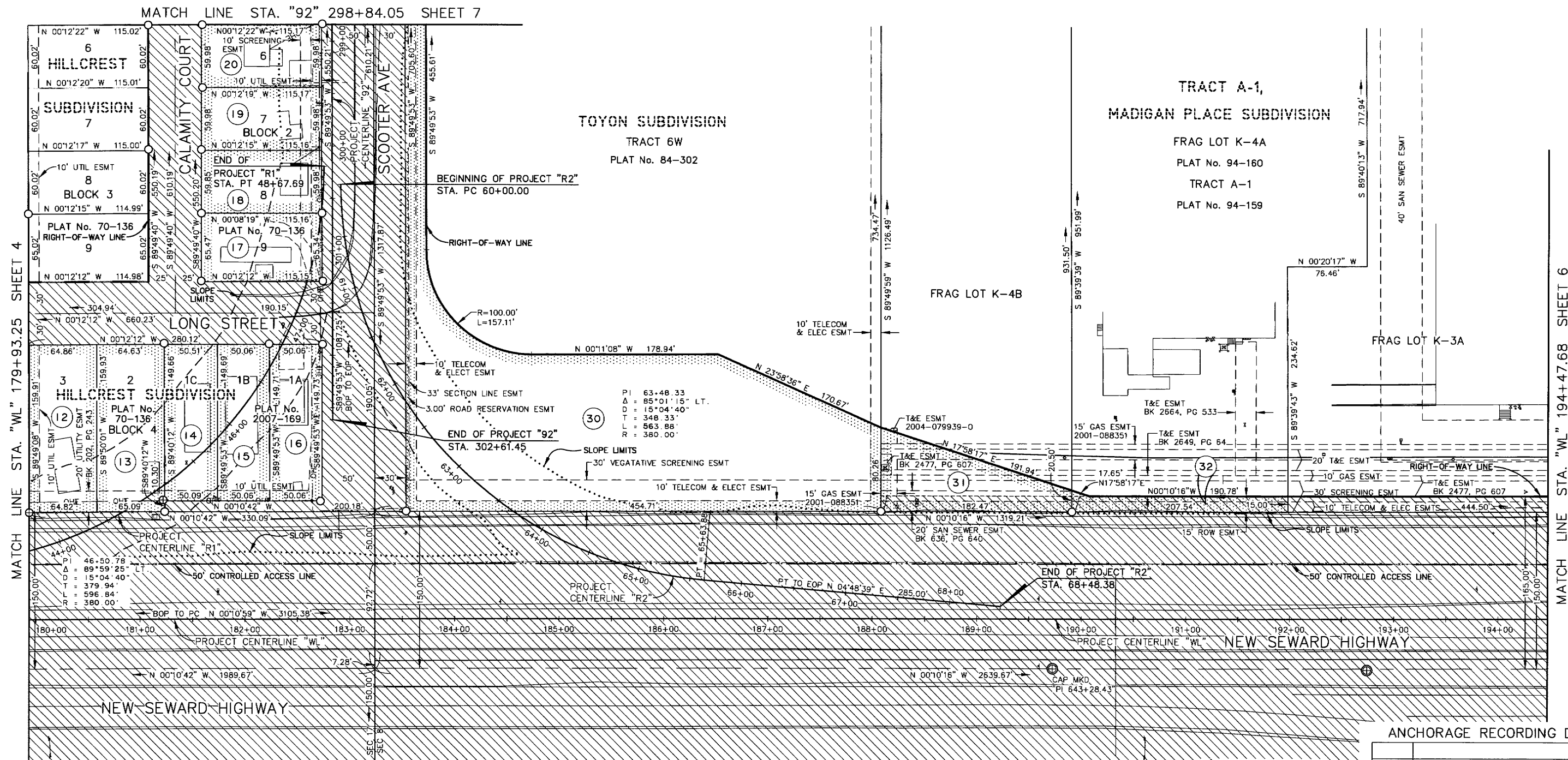
ANCHORAGE RECORDING DISTRICT

DATE	REVISIONS	BY

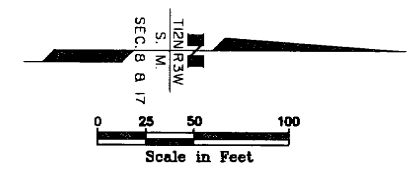
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
PUBLIC FACILITIES
RIGHT-OF-WAY MAP
ALASKA PROJECT
STATE PROJECT NO. 59770

SEWARD HIGHWAY: 92nd AVENUE CONNECTOR
NEW SEWARD HIGHWAY TO OLD SEWARD HIGHWAY

DRAWN	KMS	DATE	06/04/2013	SCALE	1" = 50'
CHECKED	JHS	DATE	XX/XX/XXXX	SHEET	4 OF 11



PARCEL NO.	INTEREST TO BE ACQUIRED	OWNER	LARGER PARCEL	TAKE INCLUDING EXISTING EASEMENT	NET TAKE	REMAINDER	RECORDED DOCUMENT NUMBER
32	FEE	REALTY INCOME CORPORATION	5,798 AC	3,159 SF	46 SF	5,725 AC	
31	FEE	HAWKINS CO, LLC, ANC SNOW LOT, LLC, ET AL	4,196 AC	9,190 SF	6,453 SF	3,985 AC	
30	FEE	DAVID G. AND BONNIE J. FAULK	343,017 SF	76,056 SF	73,939 SF	267,961 SF	
20	FEE	JAMES O. DIX III AND JEAN M. PREUIT	6,908 SF	6,908 SF	6,908 SF	0 SF	
19	FEE	JUAN CARLOS AND ELSA C. TOSCANO	6,908 SF	6,908 SF	6,908 SF	0 SF	
18	FEE	RAFAEL AND GLORIA BARBOSA	6,900 SF	6,900 SF	6,900 SF	0 SF	
17	FEE	RAFAEL AND GLORIA BARBOSA	7,532 SF	7,532 SF	7,532 SF	0 SF	
16	FEE	HANNAH PROPERTIES, LLC	7,495 SF	7,495 SF	7,495 SF	0 SF	
15	FEE	HANNAH PROPERTIES, LLC	7,494 SF	7,494 SF	7,494 SF	0 SF	
14	FEE	HANNAH PROPERTIES, LLC	7,529 SF	7,529 SF	7,529 SF	0 SF	
13	FEE	DAVID E. AND HENRIETTA A. RANKIN	10,374 SF	10,374 SF	10,374 SF	0 SF	
12	FEE	DAVID E. AND HENRIETTA A. RANKIN	10,369 SF	10,369 SF	10,369 SF	0 SF	



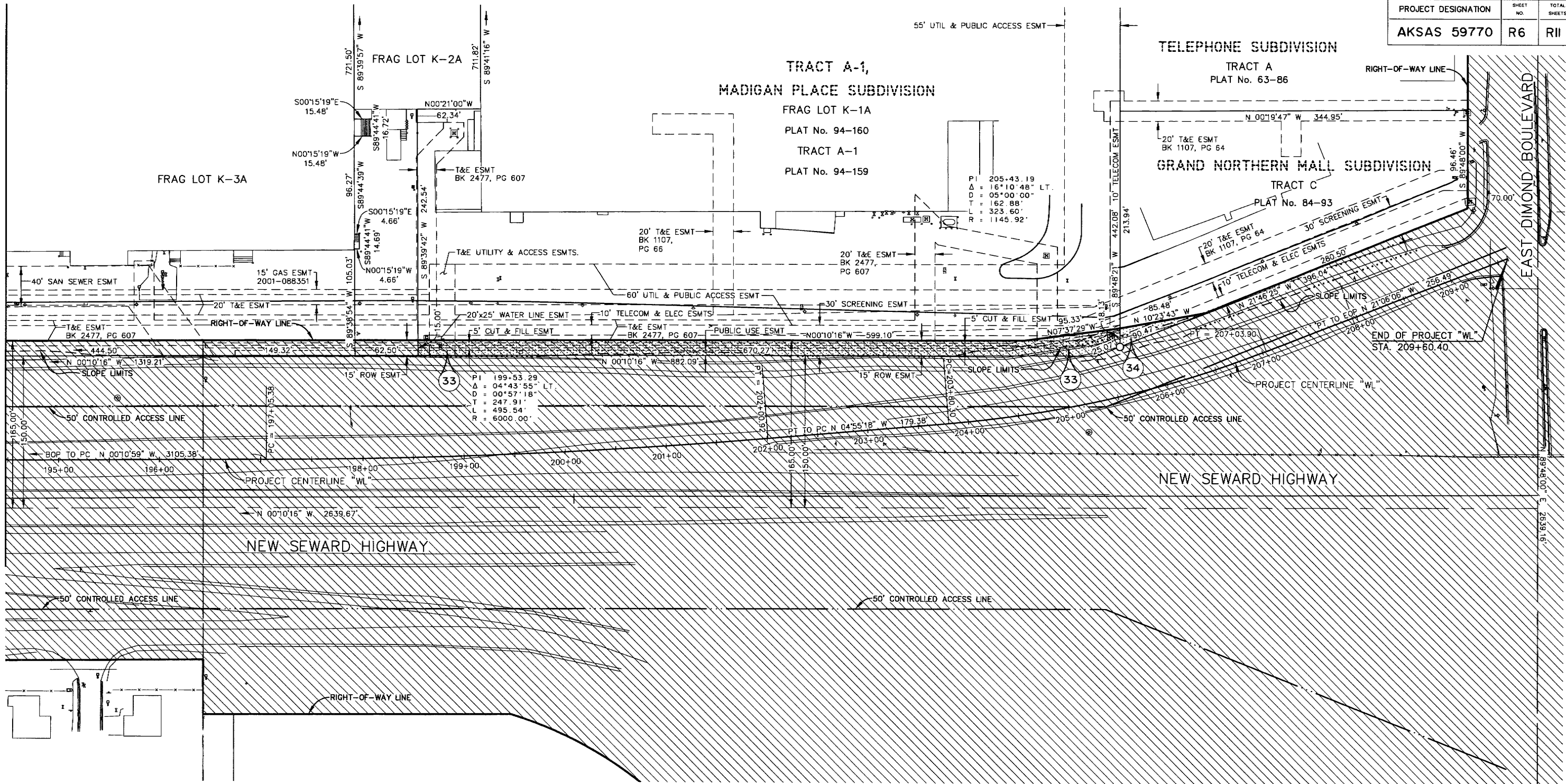
PRELIMINARY

CONSULTANT RIGHT-OF-WAY SURVEYOR'S CERTIFICATE

ANCHORAGE RECORDING DISTRICT		
DATE	REVISIONS	BY
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION PUBLIC FACILITIES RIGHT-OF-WAY MAP ALASKA PROJECT STATE PROJECT NO. 59770		
SEWARD HIGHWAY: 92nd AVENUE CONNECTOR NEW SEWARD HIGHWAY TO OLD SEWARD HIGHWAY		
DRAWN KMS	DATE 06/04/2013	SCALE 1" = 50'
CHECKED JHS	DATE XX/XX/XXXX	SHEET 5 OF 11

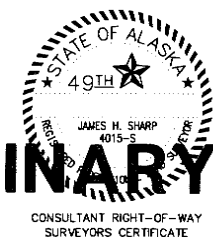
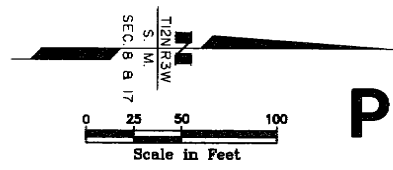
MATCH LINE STA. "WL" 194+47.68 SHEET 5

PROJECT DESIGNATION	SHEET NO.	TOTAL SHEETS
AKSAS 59770	R6	RII



PARCEL NO.	INTEREST TO BE ACQUIRED	OWNER	LARGER PARCEL	TAKE INCLUDING EXISTING EASEMENT	NET TAKE	REMAINDER	RECORDED DOCUMENT NUMBER
34	FEE	WILCOX AND STOCKDALE PROPERTY PARTNERSHIP	56,667 SF	763 SF	763 SF	55,904 SF	
33	FEE	ANC DIMOND, LLC AND ANC HAWKINS, LLC	14.811 AC	10.881 SF	375 SF	14.561 AC	

PARCEL INFORMATION

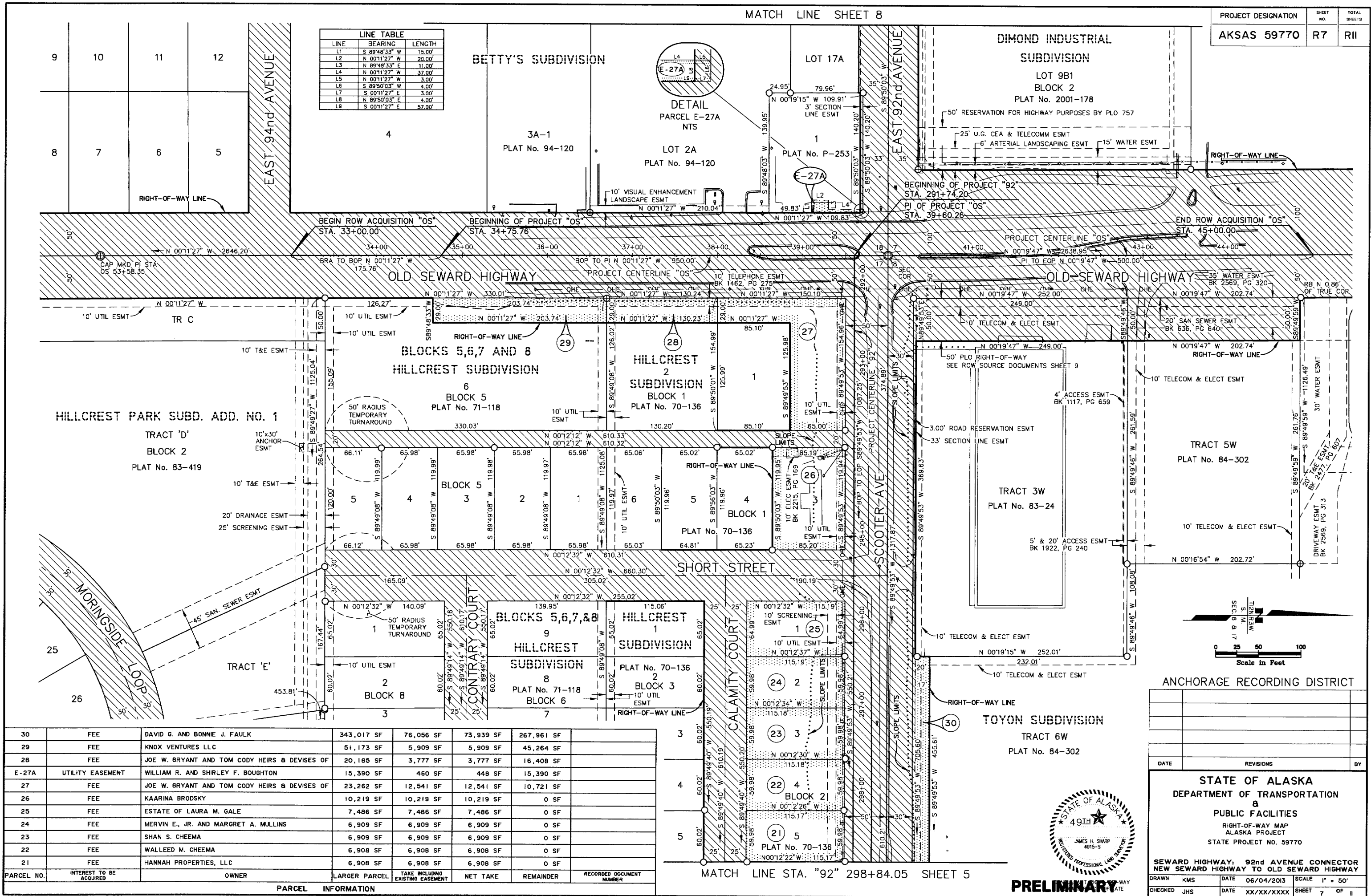


PRELIMINARY

ANCHORAGE RECORDING DISTRICT

DATE	REVISIONS	BY

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION PUBLIC FACILITIES RIGHT-OF-WAY MAP ALASKA PROJECT STATE PROJECT NO. 59770			
SEWARD HIGHWAY: 92nd AVENUE CONNECTOR NEW SEWARD HIGHWAY TO OLD SEWARD HIGHWAY			
DRAWN	KMS	DATE	06/04/2013
CHECKED	JHS	DATE	XX/XX/XXXX
SCALE		1" = 50'	
SHEET		6	OF 11



PRELIMINARY

HORIZONTAL CONTROL STATEMENT

COORDINATE SYSTEM:

THIS PROJECT IS LOCATED ENTIRELY WITHIN THE ANCHORAGE BOWL 2000 ADJUSTMENT, A LOCAL SURFACE GRID COORDINATE SYSTEM EXPRESSED IN U.S. SURVEY FEET UNITS DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION.

BASIS OF COORDINATES:

THE BASIS OF COORDINATES IS NGS STATION O'MALLEY, LOCATED NEAR THE INTERSECTION OF THE NEW SEWARD HIGHWAY AND O'MALLEY ROAD. SAID STATION HAS ANCHORAGE BOWL 2000 COORDINATES OF 303,939.2310 N, 353,362.5446 E. U.S. SURVEY FEET.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS IS A LOCAL PLANE BEARING BETWEEN NGS STATION O'MALLEY AND NGS STATION LOOP 2 USE RM 3 1964. NGS STATION LOOP 2 USE RM 3 1964 BEARS N01°43'26.4"E A DISTANCE OF 49,488.4476 FEET FROM NGS STATION O'MALLEY. NGS STATION LOOP 2 USE RM 3 1964 HAS ANCHORAGE BOWL 2000 COORDINATES OF 353,405.2778 N, 354,851.3982 E. U.S. SURVEY FEET.

TRANSLATION PARAMETERS:

TO CONVERT THE LOCAL COORDINATES TO NAD83 (92) STATE PLANE COORDINATES EXPRESSED IN U.S. SURVEY FEET, TRANSLATE USING +2,296,868.6878 N USF, +1,312,517.4904 E USF, AND SCALE USING 0.9998910192.

GENERAL NOTES

- THESE PLANS MAY BE USED FOR THE ESTABLISHMENT OF RIGHT-OF-WAY LIMITS ONLY. THESE DRAWINGS SHOULD NOT BE USED AS A BASIS FOR ESTABLISHING ADJOINING PROPERTY LINES AND CORNERS.
- RIGHT-OF-WAY MAPPING WAS PREPARED BY WHPACIFIC, INC. MARCH 2012 THROUGH JUNE 2013 AND REFLECTS THE PROPERTIES AND SUBDIVISIONS OF RECORD AS OF MARCH 1, 2012.
- CONSULT RECORDED PLATS FOR ADDITIONAL RESTRICTIONS AND NOTES RELATING TO PROPERTIES SHOWN HEREON. MANY OF THE PLATS ALONG THE RIGHT-OF-WAY CORRIDOR INCLUDE A SLOPE RESERVATION EASEMENT SUFFICIENT TO CONTAIN CUT AND FILL SLOPES FOR THE PURPOSE OF PROVIDING AND MAINTAINING LATERAL SUPPORT OF CONSTRUCTED STREETS.
- REFER TO STATION AND OFFSETS FOR RIGHT-OF-WAY ANGLE POINT LOCATIONS. REFER TO MONUMENT SUMMARY SHEETS FOR SURVEY MONUMENT LOCATIONS.
- ALL DOCUMENTS NOTED IN THIS PLAN SET AND REFERENCED BY INSTRUMENT NUMBER OR BOOK AND PAGE ARE RECORDED IN THE ANCHORAGE RECORDING DISTRICT (A.R.D.), UNLESS OTHERWISE NOTED.
- COMPLETE TITLE REPORTS WERE NOT PREPARED IN ASSOCIATION WITH THIS RIGHT-OF-WAY SURVEY FOR ALL THE ADJOINING PROPERTIES. ALTHOUGH A CONCERTED EFFORT HAS BEEN MADE TO SHOW PERTINENT TITLE INTEREST IN ADJOINING PROPERTIES, EASEMENTS MAY EXIST THAT ARE NOT SHOWN ON THIS PLAT.
- THE INSTALLATION OF CENTERLINE MONUMENTS WAS COMPLETED BY _____ ON _____, 201X.
- WHETHER LISTED OR NOT, UNLESS OTHERWISE NOTED, ALL MONUMENTS OR PROPERTY MARKERS/CORNERS OR ACCESSORIES WHICH WILL BE DISTURBED OR BURIED SHALL BE REFERENCED AND RE-ESTABLISHED IN THEIR ORIGINAL POSITION (A.S. 19.10.260) AND RECORDED (A.S. 34.65.040).
- ALL DIMENSIONS AND COORDINATES SHOWN ARE IN U.S. SURVEY FEET.

SOURCE DOCUMENTS FOR EXISTING RIGHT-OF-WAY

THE 92ND AVENUE CONNECTOR RIGHT-OF-WAY CORRIDOR DEPICTED HEREIN WAS DETERMINED FROM THE FOLLOWING PLANS AND DOCUMENTS:	
RIGHT-OF-WAY MAP SHEET NO.	PLAN OR DOCUMENT
4	NEW SEWARD HWY, POTTER TO NORTHERN LIGHTS, ROW MAP F-031-2(18) NEW SEWARD HWY ROW: 300' ROW, SECTION 17 PARCEL A-282, FINAL JUDGEMENT 69-990 PLAT No. 71-118; BLOCKS 5,6,7 AND 8-HILLCREST SUBDIVISION PLAT No. 83-419; HILLCREST PARK SUBDIVSION, ADD. No. 1 PLAT No. 96-75; TRACT 1A & 1B, HILLCREST PARK SUBDIVISION PLAT No. 2002-8; HILLCREST PARK PLAT No. 2003-68; LOT 38, BLOCK 3 & TRACT G-1 HILLCREST PARK SUBDIVISION
5	NEW SEWARD HWY, POTTER TO NORTHERN LIGHTS, ROW MAP F-031-2(18) NEW SEWARD HWY ROW: 300' ROW, SECTION 17 PARCEL A-282, FINAL JUDGEMENT 69-990 NEW SEWARD HWY ROW: 300' ROW, SECTION 8 PARCEL A-283, FINAL JUDGEMENT 69-503 SCOOTER AVE / ACADEMY DRIVE (AKA ABBOTT RD); S1/2 SW1/4 SECTION 8 ENTERED 12/27/1949 SECTION LINE EASEMENT (SLE) APPLIES, 30' ROW DEDICATION PLUS 3' ROAD RESERVATION, PLAT No. 71-328; NW1/4 SECTION 17 ENTERED 03/26/1946 33' SLE APPLIES, 50' ROW DEDICATED PLAT No. 70-136 PLAT No. 70-136; BLOCKS 1,2,3 AND 4 - HILLCREST SUBDIVISION PLAT No. 84-302; TRACTS 5W AND 6W TOYON SUBDIVISION PLAT No. 94-159; TRACT A-1, MADIGAN PLACE SUBDIVISION PLAT No. 94-160; FRAGMENT LOTS K-1A THROUGH K-4A, K-4B AND K-5A THROUGH K-10A
6	NEW SEWARD HWY, POTTER TO NORTHERN LIGHTS, ROW MAP F-031-2(18) NEW SEWARD HWY ROW: 300' ROW, SECTION 8 PARCEL A-283, FINAL JUDGEMENT 69-503 PLAT No. 84-93; GRAND NORTHERN MALL SUBDIVISION PLAT No. 63-86; TELEPHONE SUBDIVISION PLAT No. 94-159; TRACT A-1, MADIGAN PLACE SUBDIVISION PLAT No. 94-160; FRAGMENT LOTS K-1A THROUGH K-4A, K-4B AND K-5A THROUGH K-10A
7	SCOOTER AVE; S1/2 SW1/4 SECTION 8 ENTERED 12/27/1949 33' SECTION LINE EASEMENT (SLE) APPLIES, 30' ROW DEDICATION PLUS 3' ROAD RESERVATION PLAT No. 71-328; NW1/4 SECTION 17 ENTERED 03/26/46 33' SECTION LINE EASEMENT (SLE) APPLIES, 50' ROW DEDICATED PLAT No. 70-136 EAST 92ND AVENUE; NE1/4 NE1/4 SECTION 18 ENTERED 09/23/1946 33' SECTION LINE EASEMENT (SLE) APPLIES; SE1/4 SE1/4 SECTION 7 ENTERED 04/24/1951 33' SLE APPLIES, 35' ROW DEDICATED PLAT No. 2001-178 OLD SEWARD HWY; 100' PLUBLIC LAND ORDER (PLO) ROW ALSO RECOGNIZED AS 50' ROAD RESERVTION BEYOND 50' DEDICATION ON PLAT 71-328 IN SECTION 8; 50' ROW DEDICATION PLAT No. 69-200 AND 50 PLO ROW SECTION 17 PLAT No. 1952 P-253, BETTY'S SUBDIVISION PLAT No. 70-136; BLOCKS 1,2,3 AND 4 - HILLCREST SUBDIVISION PLAT No. 71-118; BLOCKS 5,6,7 AND 8-HILLCREST SUBDIVISION PLAT No. 83-419; HILLCREST PARK SUBDIVISION, ADD. No. 1 PLAT No. 83-24; TOYON SUBDIVISION TRACTS 3W AND 4W PLAT No. 84-302; TRACTS 5W AND 6W TOYON SUBDIVISION PLAT No. 94-120; BETTY'S SUBDIVISION LOT 2A AND 17A PLAT No. 2001-178; DIMOND INDUSTRIAL SUBDIVISION
8	EAST 92ND AVENUE; NE1/4 NE1/4 SECTION 18 ENTERED 09/23/1946 33' SECTION LINE EASEMENT (SLE) APPLIES; SE1/4 SE1/4 SECTION 7 ENTERED 04/24/1951 33' SLE APPLIES, 35' ROW DEDICATED, PLAT No. 2001-178 PLAT No. 1952 P-253, BETTY'S SUBDIVISION PLAT No. 94-120; BETTY'S SUBDIVISION LOT 2A AND 17A PLAT No. 2001-178; DIMOND INDUSTRIAL SUBDIVISION U.S. SURVEY No. 9015; CORRECTION DEED BK 3549, PG 627; WARRANTY DEED BK 3890, PG 936; WARRANTY DEED BK 3890, PG 932; WARRANTY DEED BK 3879, PG 227; PUBLIC USE ESMT 2008-01792-0

ANCHORAGE RECORDING DISTRICT

DATE	REVISIONS	BY
STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES RIGHT-OF-WAY MAP ALASKA PROJECT STATE PROJECT NO. 59770		
SEWARD HIGHWAY: 92nd AVENUE CONNECTOR NEW SEWARD HIGHWAY TO OLD SEWARD HIGHWAY		
DRAWN KMS	DATE 06/04/2013	SCALE 1" = 50'
CHECKED JHS	DATE XX/XX/XXXX	SHEET 9 OF 11

MONUMENT SUMMARY SHEET

RECOVERED CORNERS - SHEETS 4 THRU 6 "WL"						
LOCATION	MONUMENT TYPE	NORTHING	EASTING	STATION	OFFSET	ITEM
SHEET 4						
SE Cor Lot 9B BLK 1, Diamond Willow Estate	Rebar/YPC [3514S]	307221.1679	353238.6040	144+26.13	176.20 LT	
NW Cor Lot 1A BLK 2, Diamond Willow Estate	Rebar/YPC [3514-S]	307910.2259	353302.9419	151+14.99	109.72 LT	
SE Cor Lot 2B BLK 2, Diamond Willow Estate	Rebar/YPC [3514-S]	308003.5525	353307.9334	152+08.30	104.44 LT	
Ang Pt E'ly Bndy L8A BLK 2, Diamond Willow Est.	Conc. ROW Mon	308325.5020	353308.6185	155+30.25	102.76 LT	
NE Cor Lot 8A BLK 2, Diamond Willow Estate	Rebar/YPC	308362.8835	353301.7365	155+67.65	109.52 LT	
CL Old Seward, SEC 1/4 Cor S18 S17, T12N R3W	Aluminum Cap [LS5464]	308469.2598	352133.5510	156+77.66	1277.37 LT	
NE Cor Lot 8 BLK 1, Aurora Park	Conc. ROW Mon	308625.9545	353256.4641	158+30.86	153.97 LT	
SE Cor Lot 31 BLK 1, Aurora Park	Rebar	308685.3425	353256.5830	158+90.25	153.67 LT	
SE Cor Lot 14 BLK 1, Aurora Park	Rebar	309021.2205	353256.2979	162+26.12	152.91 LT	
New Seward Hwy P.I.	Brass Cap	309129.6817	353456.0669	163+33.96	47.19 RT	
NE Cor Lot 14 BLK 1, Aurora Park	Aluminum Mon [949S]	309137.0773	353256.5143	163+41.98	152.33 LT	
SE Cor Lot 18 BLK 4, Hillcrest Park	Aluminum Mon [7839]	309535.2795	353294.7283	167+40.06	112.88 LT	
Ang PT E'ly Bndy L38-A BLK 3, Hillcrest Park	Rebar	309565.2080	352979.2736	167+70.97	428.24 LT	
Ang PT E'ly Bndy L38-A BLK 3, Hillcrest Park	Rebar/YPC [LANTECH]	309583.2821	352982.7060	167+89.03	424.75 LT	
Ang Pt E'ly Bndy Lot 18 BLK 4, Hillcrest Park	Conc. ROW Mon	309632.4508	353303.9760	168+37.20	103.33 LT	
NE Cor Lot 18 BLK 4, Hillcrest Park	Rebar/YPC	309773.7905	353303.6329	169+78.54	103.24 LT	
C-M 1/16 Corner S17, T12N R3W	Aluminum Mon [4788]	309802.9247	354767.3859	170+03.12	1360.60 RT	
SE Cor Lot 12 BLK 4, Hillcrest Park	Nail	309943.6797	353303.2221	171+48.43	103.12 LT	
PC Alissa Circle Tr 1, Hillcrest Park	Rebar/AC [xxxx]	310012.3505	353063.2647	172+17.85	342.86 LT	
SE Cor Lot 11 BLK 4, Hillcrest Park	Mag Nail	310016.7647	353305.2863	172+21.51	100.83 LT	
NE Cor Lot 11 BLK 4, Hillcrest Park	Nail	310078.6807	353302.8566	172+83.43	103.06 LT	
PT Alissa Circle Tr 1, Hillcrest Park	Rebar/AC [xxxx]	310110.5369	353142.8100	173+15.79	263.01 LT	
SE Cor Lot 9 BLK 4, Hillcrest Park	1" Nail	310138.6658	353302.7142	173+43.42	103.02 LT	
SE Cor Lot 8 BLK 4, Hillcrest Park	Mag Nail	310197.5111	353304.0779	174+02.26	101.47 LT	
NE Cor Lot 8 BLK 4, Hillcrest Park	1" Nail	310258.6655	353302.4441	174+63.42	102.92 LT	
SE Cor Lot 6 BLK 4, Hillcrest Park	Nail Shank	310318.7619	353302.2793	175+23.52	102.89 LT	
Radius Pt Alissa Circle, Hillcrest Park	Rebar/AC [xxxx]	310328.1895	353122.2467	175+33.50	282.90 LT	
Angle Pt Alissa Circle, Hillcrest Park	Rebar/AC [xxxx]	310328.2746	353142.2729	175+33.53	262.87 LT	
NE Cor Lot 6 BLK 4, Hillcrest Park	1" Nail	310378.7937	353302.1536	175+83.55	102.83 LT	
SW Cor Lot 6 BLK 8, Hillcrest Subdivision	Rebar/PC [6914S]	310456.9628	352837.3782	176+63.16	567.36 LT	
NE Cor Tr 1A, Hillcrest Subdivision	Rebar	310457.9578	353112.6023	176+63.30	292.14 LT	
SE Cor Lot 6 BLK 8, Hillcrest Subdivision	Rebar/PC [6914-S]	310457.3635	352897.0927	176+63.38	507.65 LT	
SE Cor Lot 5 BLK 7, Hillcrest Subdivision	Aluminum Mon [3152]	310458.6987	353301.9705	176+63.45	102.77 LT	
SW Cor Lot 9 BLK 8, Hillcrest Subdivision	Rebar/PC [6914-S]	310458.0429	353017.0861	176+63.68	387.65 LT	
SE Cor Lot 4 BLK 7, Hillcrest Subdivision	Rebar	310524.7842	353301.7386	177+29.54	102.79 LT	
NE Cor Lot 4 BLK 7, Hillcrest Subdivision	Rebar	310590.9038	353301.6368	177+95.66	102.69 LT	
NE Cor Lot 2 BLK 7, Hillcrest Subdivision	3/4" Pipe	310722.6562	353300.9757	179+27.41	102.94 LT	
NE Cor Lot 1 BLK 7, Hillcrest Subdivision	Brass Cap [GABB]	310788.8168	353301.1842	179+93.57	102.53 LT	
SHEET 5						
SE Cor Lot 1C BLK 4, Hillcrest Subdivision	Aluminum Mon [7326]	310917.1971	353289.2287	181+21.99	114.08 LT	
NE Cor Lot 2 BLK 4, Hillcrest Subdivision	Rebar	310918.7317	353300.3763	181+23.49	102.93 LT	
NE Cor Lot 1A BLK 4, Hillcrest Subdivision	Aluminum Mon	311067.1289	353289.9275	182+71.92	112.92 LT	
NW Cor Lot 1A BLK 10, Independence Park Sub	Aluminum Mon [949]	311093.2319	354760.7320	182+93.45	1357.96 RT	
SI Vanguard/Abbott RD.	Aluminum Cap	311123.8627	355018.4218	183+23.27	1615.74 RT	
SEC 1/4 Cor, SB/S17, T12N R3W	Aluminum Cap	311123.1961	354760.4672	183+23.41	1357.79 RT	
SE Cor Tr. 3E, Toyon Subdivision	Rebar/PC [6091]	311153.1514	354760.2379	183+53.10	1357.66 RT	
BM [GAAB], SE Cor Tr. 1E, Toyon Subdivision	Brass Cap	311152.4109	354431.2773	183+53.45	1028.70 RT	
SE Cor Tr. 6W, Toyon Subdivision	Rebar	311148.9145	353299.4288	183+53.69	103.16 LT	
NE Cor Tr. 6W, Toyon Subdivision	Rebar	311603.6036	353298.2958	188+08.38	102.79 LT	
New Seward HWY P.I.	Brass Cap in Mon/BX	311768.3536	353447.8590	189+72.64	47.32 RT	
NE Cor Lot K-4B, Madigan Place	Rebar/PC	311786.0678	353297.8389	189+90.85	102.64 LT	
NE Cor Tr. 3E, Toyon Subdivision	Iron Pipe	311828.2455	354757.3130	190+28.20	1356.96 RT	
NW Cor Tr. 1E, Toyon Subdivision	Rebar/PC [7834]	311824.8991	353597.9453	190+28.69	197.59 RT	
New Seward HWY P.I.	Brass Cap in Mon/BX	312070.0232	353448.3157	192+74.31	48.77 RT	
SHEET 6						
SW Cor Lot 12B BLK 4, John Wells Subdivision	Aluminum Mon [3510]	312442.0586	354755.0511	196+42.02	1356.73 RT	
SE Cor Tr C, Grand Northern Mall Subdivision	Rebar	313343.4720	353284.0040	205+63.56	47.85 LT	
Center 1/4 Cor Section 8, T12N R3W	Aluminum Mon in Mon/BX	313763.5680	354748.6883	205+85.87	1475.53 RT	

RECOVERED CORNERS - SHEETS 5 & 7 "92"						
LOCATION	MONUMENT TYPE	NORTHING	EASTING	STATION	OFFSET	WORK ITEM
SHEET 5						
NE Cor Lot 1 BLK 1, Hillcrest Subdivision	Rebar	311065.8540	352329.4790	293+78.78	10.45 RT	
NW Cor Lot 3 BLK 1, Hillcrest Subdivision	Rebar	311065.6414	352349.5616	293+98.86	10.72 RT	
SW Cor Lot 4 BLK 1, Hillcrest Subdivision	Rebar	310915.6776	352350.0414	293+98.90	160.68 RT	
NW Cor Lot 4 BLK 1, Hillcrest Subdivision	Rebar	310980.8177	352349.8655	293+98.92	95.54 RT	
SE Cor Lot 3 BLK 1, Hillcrest Subdivision	Rebar/PC [5773]	310981.0891	352470.2714	295+19.32	95.62 RT	
NE Cor Tr. 5W, Toyon Subdivision	Aluminum Mon [8535]	311601.9103	352483.6946	295+34.57	525.16 LT	
SE Cor Tr. 5W, Toyon Subdivision	Rebar	311398.5115	352484.6946	295+34.97	321.75 LT	
NE Cor Tr. 3W, Toyon Subdivision	Rebar	311399.0616	352592.7767	296+43.06	321.99 LT	
NE Cor Lot 1 BLK 2, Hillcrest Subdivision	Rebar	311066.8599	352594.3768	296+43.68	10.22 RT	
SE Cor Tr. 3W, Toyon Subdivision	Rebar/PC [LOUNSBURY]	311151.8650	352594.1605	296+43.71	74.79 LT	
NW Cor Lot 4 BLK 2, Hillcrest Subdivision	Rebar	311068.1397	352714.1091	297+63.42	9.29 RT	
NW Cor Lot 5 BLK 3, Hillcrest Subdivision	Rebar	310903.2717	352774.6491	298+23.47	174.34 RT	
NW Cor Lot 5 BLK 2, Hillcrest Subdivision	Rebar	311066.8684	352774.3833	298+23.69	10.74 RT	
NW Cor Lot 6 BLK 2, Hillcrest Subdivision	Rebar	311068.4285	352834.1571	298+83.46	9.36 RT	
SW Cor Lot 6 BLK 2, Hillcrest Subdivision	Rebar	310953.3771	352835.1313	298+84.10	124.41 RT	
NW Cor Lot 6 BLK 3, Hillcrest Subdivision	Rebar/YPC [LS6214]	310902.3272	352835.6017	298+84.42	175.46 RT	
SHEET 5						
SE Cor Lot 6 BLK 2, Hillcrest Subdivision	Rebar	310953.7566	352895.0724	299+44.04	124.21 RT	
NW Cor Lot 8 BLK 3, Hillcrest Subdivision	Rebar	310902.8933	352854.1504	300+02.97	175.24 RT	
SW Cor Lot 8 BLK 2, Hillcrest Subdivision	Rebar	310952.7843	352954.1834	300+03.15	125.35 RT	
SW Cor Lot 9 BLK 2, Hillcrest Subdivision	Rebar	310952.9825	353014.9415	300+63.91	125.33 RT	
NW Cor Lot 9 BLK 2, Hillcrest Subdivision	Rebar/PC [5773]	311068.3367	353014.6623	300+63.97	9.98 RT	
SW Cor Lot 9 BLK 3, Hillcrest Subdivision	Rebar	310787.730	353015.6619	300+64.14	290.59 RT	
SE Cor Lot 9 BLK 2, Hillcrest Subdivision	Rebar/PC	310852.8074	353079.7104	301+26.68	125.60 RT	
NE Cor Lot 9 BLK 2, Hillcrest Subdivision	Rebar/PC	311069.2201	353079.5484	301+28.86	9.29 RT	
SW Cor Lot 1C BLK 4, Hillcrest Subdivision	Rebar/PC	310917.7923	353139.3264	301+88.19	160.89 RT	
SW Cor Lot 1A BLK 4, Hillcrest Subdivision	Rebar/PC	311017.9394	353139.6073	301+88.77	60.74 RT	
NW Cor Lot 1A BLK 4, Hillcrest Subdivision	Rebar	311069.0338	353139.9308	301+89.24	9.65 RT	

NOTES

1. Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried shall be referenced or re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).
2. See sheet 19 and 20 for other survey notes.

"92" = 92ND AVENUE PROJECT CENTERLINE
"OS" = OLD SEWARD HIGHWAY PROJECT CENTERLINE
"WL" = NEW SEWARD HIGHWAY PROJECT CENTERLINE
"R1" = 92ND ON RAMP PROJECT CENTERLINE
"R2" = 92ND OFF RAMP PROJECT CENTERLINE

ANCHORAGE RECORDING DISTRICT

DATE	REVISIONS	BY

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
PUBLIC FACILITIES
RIGHT-OF-WAY MAP
ALASKA PROJECT
STATE PROJECT NO. 59770

SEWARD HIGHWAY: 92nd AVENUE CONNECTOR
NEW SEWARD HIGHWAY TO OLD SEWARD HIGHWAY

DRAWN	KMS	DATE	06/04/2013	SCALE	1" = 50'
CHECKED	JHS	DATE	XX/XX/XXXX	SHEET	10 OF 11

MONUMENT SUMMARY SHEET

RECOVERED CORNERS - SHEET 7 "OS"						
LOCATION	MONUMENT TYPE	NORTHING	EASTING	STATION	OFFSET	WORK ITEM
SHEET 7						
C/L Old Seward Highway	Brass Cap in Mon/BX	310192.0814	352127.8715	30+76.64	0.06 RT	
SW Cor Lot 5 BLK 8, Hillcrest Subdivision	Rebar/PC [6914-S]	310456.9296	352777.2326	33+39.32	650.30 RT	
NE Cor Tr E, Hillcrest Park Subdivision Add 1	Rebar/PC [8202-S]	310456.6023	352658.9259	33+39.39	532.00 RT	
NW Cor Tr E, Hillcrest Park Subdivision Add 1	Rebar	310456.0551	352491.4695	33+39.40	364.54 RT	
SW Cor Lot 6 BLK 5, Hillcrest Subdivision	Rebar/PC [1664-S]	310455.2472	352176.6328	33+39.64	49.70 RT	
SW Cor Lot 3 BLK 8, Hillcrest Subdivision	Rebar/PC [6914-S]	310456.8859	352657.1497	33+39.68	530.22 RT	
SW Cor Lot 1 BLK 8, Hillcrest Subdivision	Rebar/PC [6914-S]	310456.7099	352532.0901	33+39.92	405.16 RT	
SW Cor Lot 4 BLK 8, Hillcrest Subdivision	Rebar	310457.5580	352716.6326	33+40.15	589.70 RT	
NW Cor Lot 5 BLK 5, Hillcrest Subdivision	Rebar	310521.4881	352352.2355	34+05.29	225.52 RT	
NW Cor Lot 3 BLK 5, Hillcrest Subdivision	Rebar	310653.7393	352351.5517	35+37.55	225.28 RT	
SE Cor Lot 2A, Betty's Subdivision	Aluminum Mon [DOT]	310765.4337	352075.7425	36+50.16	50.16 LT	
SW Cor Lot 2 BLK 1, Hillcrest Subdivision	BM [GAAB]	310785.2617	352175.9878	36+69.65	50.16 RT	
SW Cor Lot 1, Betty's Subdivision	Rebar/PC [7326]	310974.9853	351935.2450	38+60.18	189.95 LT	
SE Cor Lot 17A, Betty's Subdivision	Rebar/PC [7326]	310999.9315	351935.0888	38+85.13	190.03 LT	
SW Cor Lot 17A, Betty's Subdivision	Rebar	311000.5303	351795.0911	38+86.19	330.02 LT	
NW Cor Lot 17A, Betty's Subdivision	Rebar	311083.6699	351793.5962	39+69.33	331.24 LT	
NE Cor Lot 17A, Betty's Subdivision	Rebar	311085.2195	351934.6275	39+70.41	190.20 LT	
Sec Cor S7 S8 S16 S17, T12N R3W	Brass Cap in Mon/BX	311115.4425	352124.7320	40+00.00	0.00 RT	
SW Cor Tr. 3W, Toyon Subdivision	Rebar	311145.5553	352174.5055	40+29.83	49.95 RT	
SE Cor Lot 9A BLK 2, Dimond Industrial Sub	Aluminum Mon [2240]	311150.0926	352023.9016	40+35.23	100.63 LT	
NE Cor Lot 9A BLK 2, Dimond Industrial Sub.	Nail	311471.3806	352022.1804	43+56.53	100.50 LT	
NW Cor Tr. 5W, Toyon Subdivision	Rebar	311601.1826	352171.6552	44+85.47	49.72 RT	
W'ly Boundary Lot K-4B, Madigan Place	Aluminum Mon	311775.2971	352171.1893	46+59.58	50.25 RT	
SW Cor Tr B, Grand Northern Mall Subdivision	Aluminum Mon [2066-S]	313349.5590	352161.9283			
SI Dimond & Old Seward Hwy	Brass Cap in Mon/BX	313744.3617	352109.4007			
SEC 1/4 Cor S7 S8, T12N R3W	Brass Cap in Mon/BX	313754.3496	352109.5434			
Sec Cor S18 S17 S19 S20, T12N R3W		305833.8501	352146.9788			
O'Malley CL, SEC 1/4 Cor S17 S20, T12N R3W	Brass Cap in Mon/BX	305841.7662	354786.1447			
SW Cor Tr. D, Diamond Willow Estote	Rebar/YPC [6091]	307152.1356	352189.6591			

NOTES

1. Whether listed or not, all monuments or property markers, corners, or accessories, which will be disturbed or buried shall be referenced or re-established in their original position (A.S. 19.10.260) and recorded (A.S. 34.65.040).
2. See sheet 19 and 20 for other survey notes.

"92" = 92ND AVENUE PROJECT CENTERLINE

"OS" = OLD SEWARD HIGHWAY PROJECT CENTERLINE

"WL" = NEW SEWARD HIGHWAY PROJECT CENTERLINE

"R1" = 92ND ON RAMP PROJECT CENTERLINE

"R2" = 92ND OFF RAMP PROJECT CENTERLINE

ANCHORAGE RECORDING DISTRICT

DATE	REVISIONS	BY

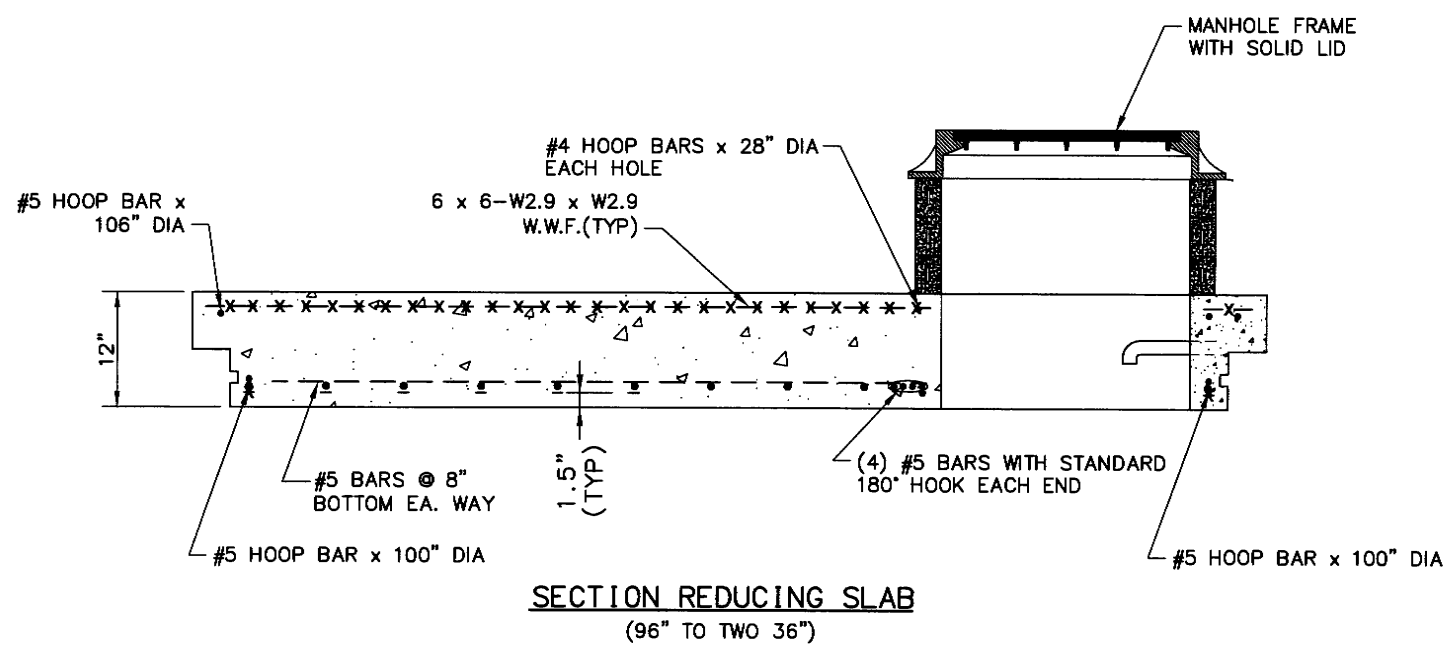
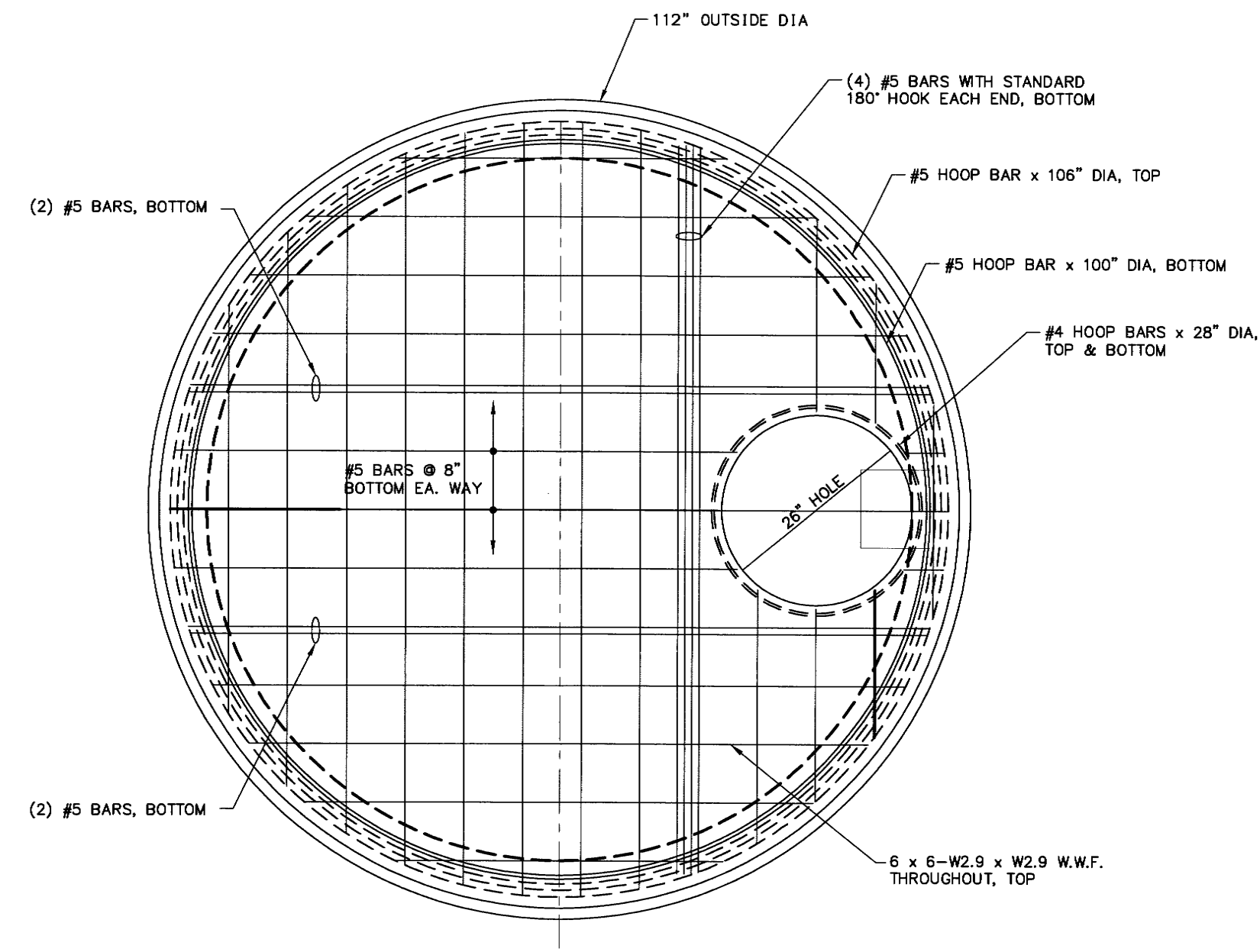
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
a
PUBLIC FACILITIES
RIGHT-OF-WAY MAP
ALASKA PROJECT
STATE PROJECT NO. 59770

SEWARD HIGHWAY: 92nd AVENUE CONNECTOR
NEW SEWARD HIGHWAY TO OLD SEWARD HIGHWAY

DRAWN	KMS	DATE	06/04/2013	SCALE	1" = 50'
CHECKED	JHS	DATE	XX/XX/XXXX	SHEET	11 OF 11

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CHECKED BY JUP
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DATE TIME
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	UD2	UD12



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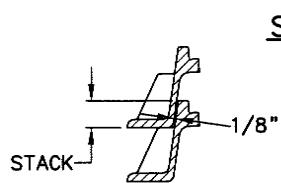
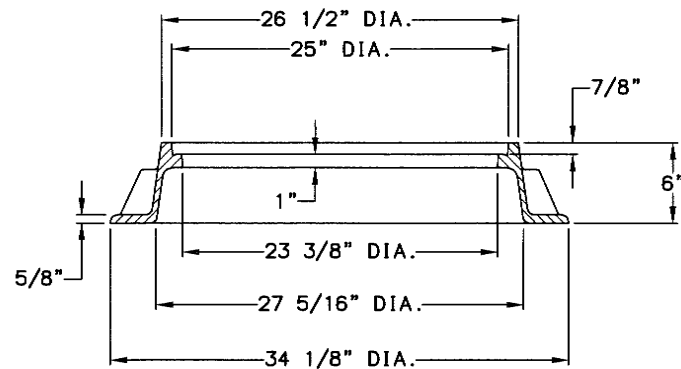
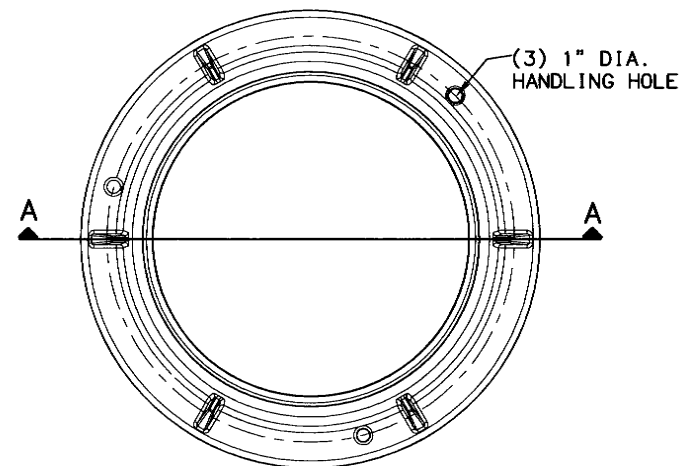
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DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR

STORM DRAIN
DETAILS

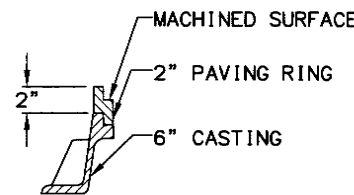
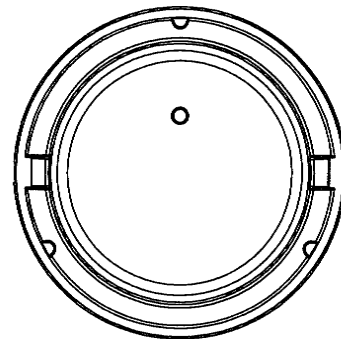
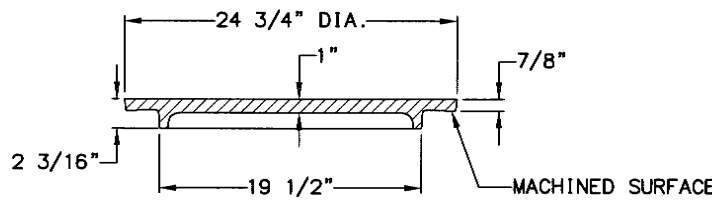
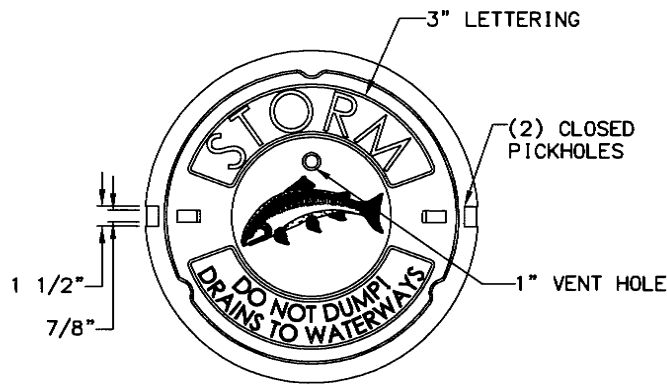
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NO.	DATE	DESCRIPTION					
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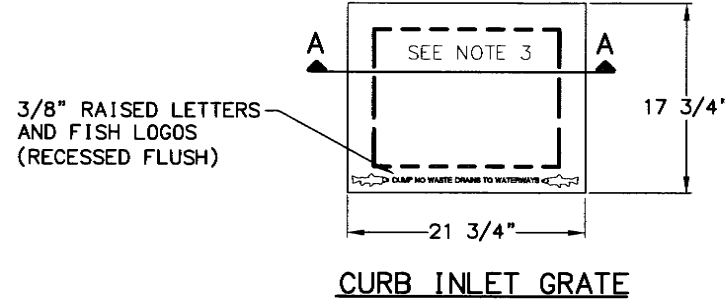
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MANHOLE FRAME
NTS

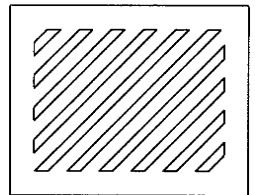


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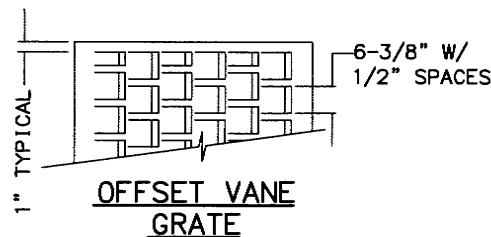
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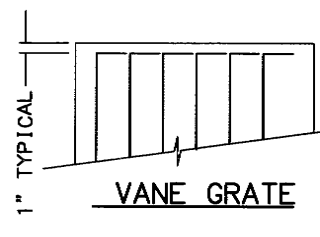
CURB INLET GRATE



DIAGONAL GRATE



SECTION AA



SECTION AA

- NOTE:
1. MINIMUM CASTING WEIGHT SHALL BE 400 LBS. FOR CURB INLET FRAME, HOOD & GRATE.
 2. CURB INLET HOOD & GRATE SHALL CONFORM TO ASTM A536.
 3. GRATE SHALL BE AS SHOWN ON THE DRAWINGS OR SPECIFIED BY THE ENGINEER.

CATCH BASIN INLET GRATES
FOR TYPE 1 CURB AND GUTTER
NTS

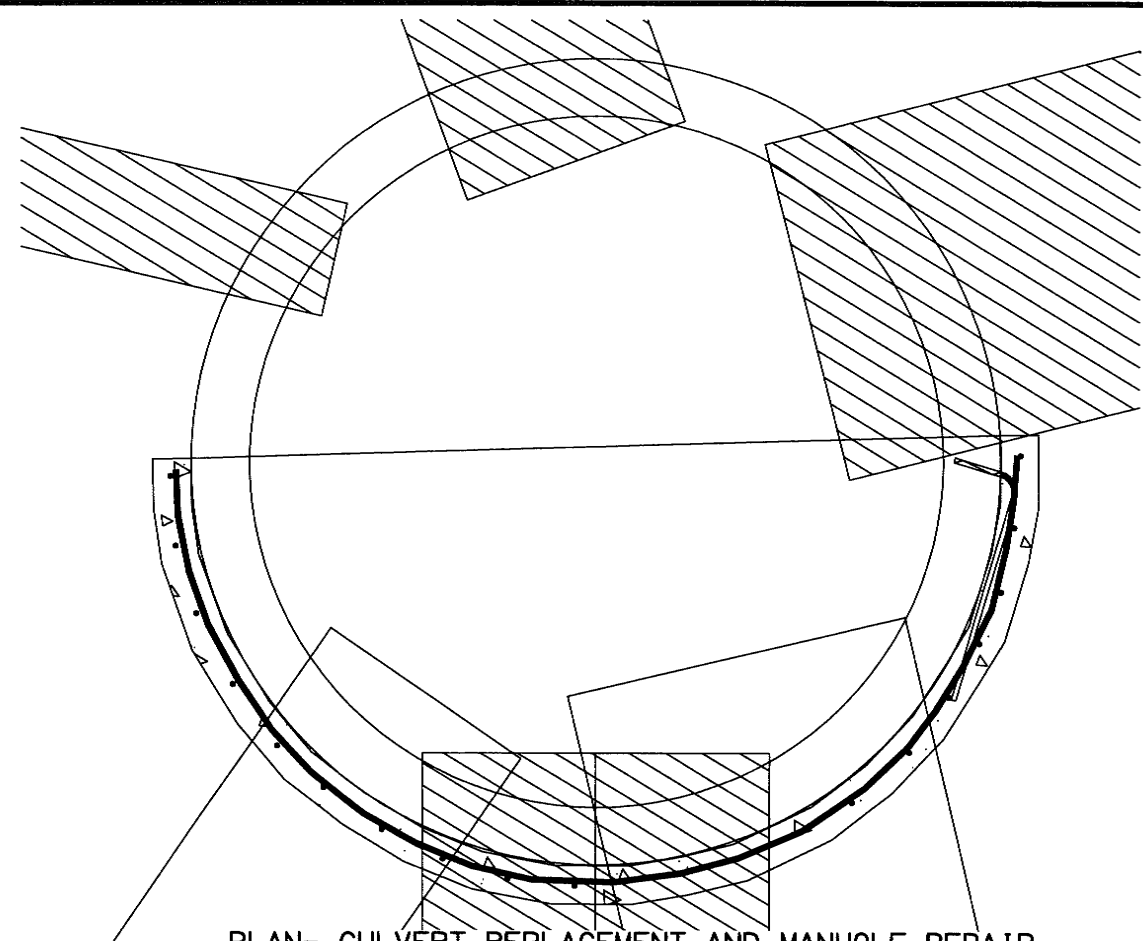
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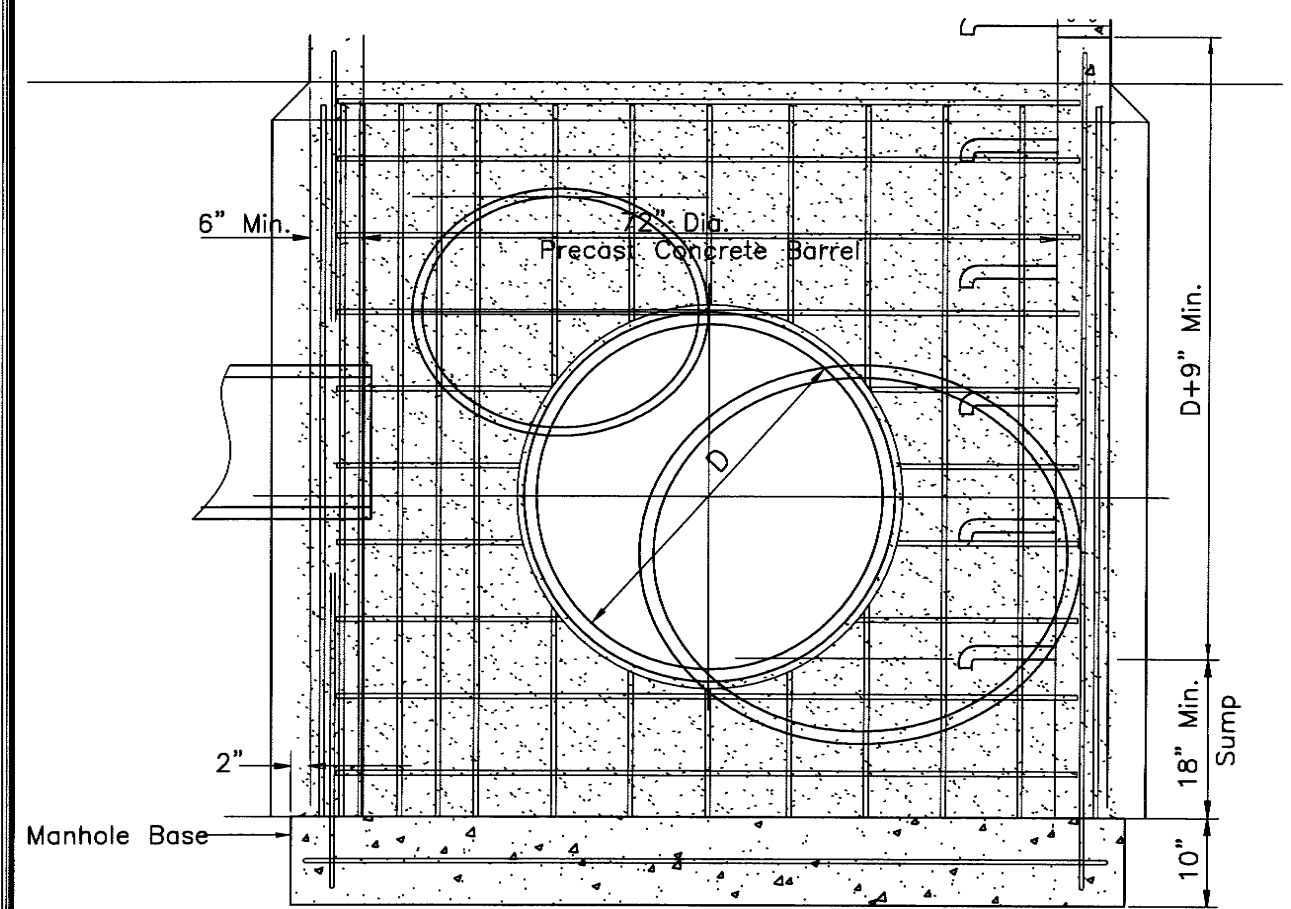
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR
STORM DRAIN
DETAILS

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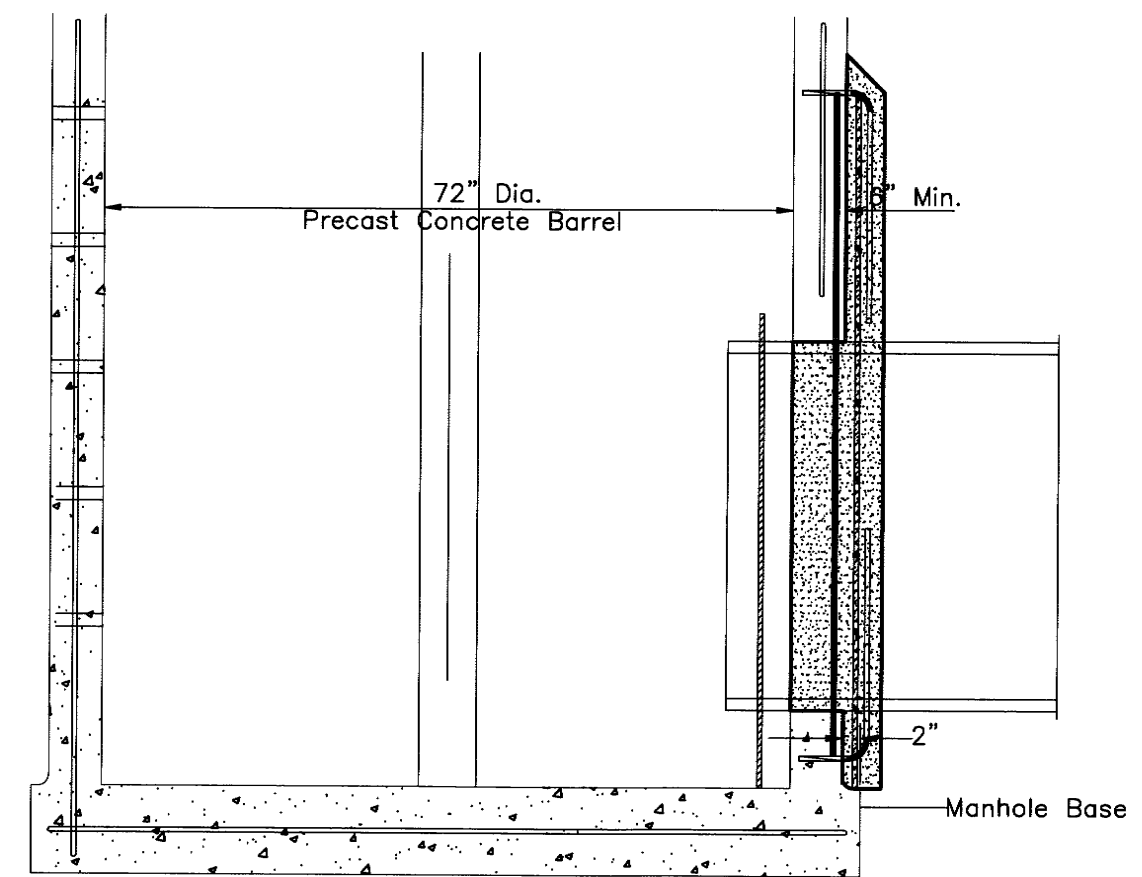


PLAN- CULVERT REPLACEMENT AND MANHOLE REPAIR



ELEVATION - CULVERT REPLACEMENT AND REPAIR

REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	UD5	UD12



ELEVATION - CULVERT REPLACEMENT AND REPAIR

PS&E REVIEW 10/01/13

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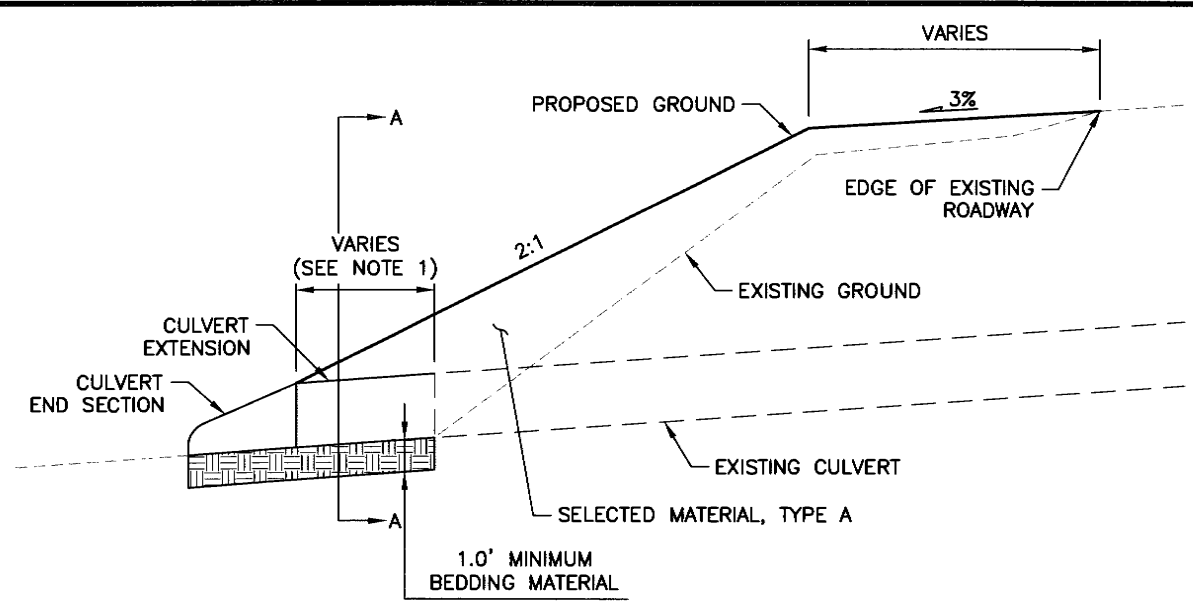
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
**SEWARD HIGHWAY: 92ND AVENUE
CONNECTOR**

STORM DRAIN
ORIFICE DETAILS

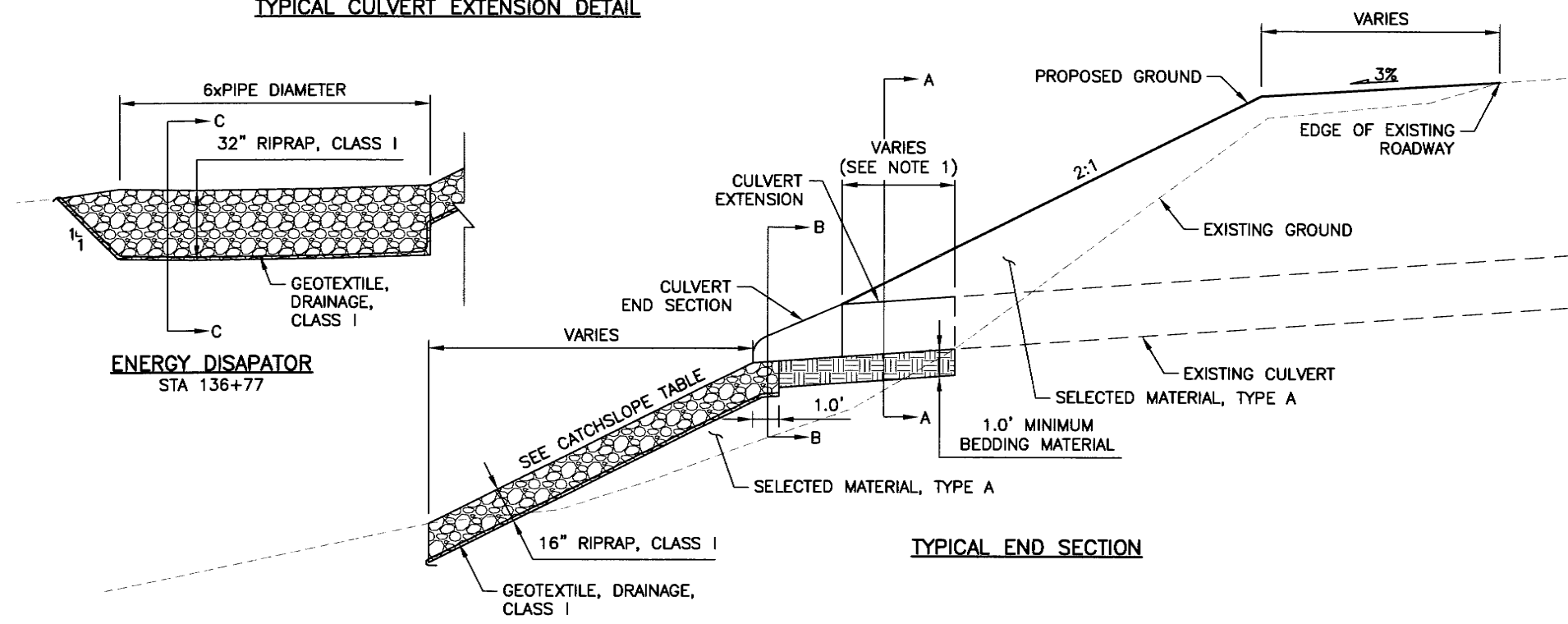
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DATE TIME
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REVISIONS			STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION					
			ALASKA	59770	2014	UD6	UD12

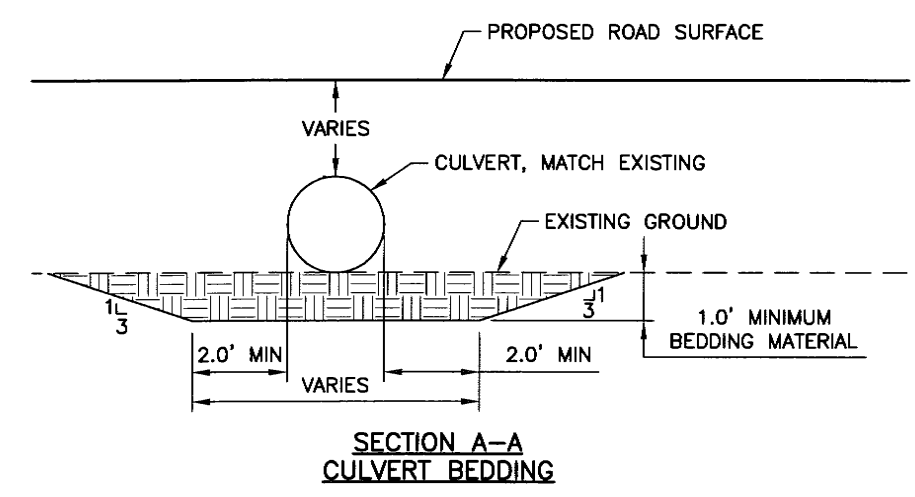
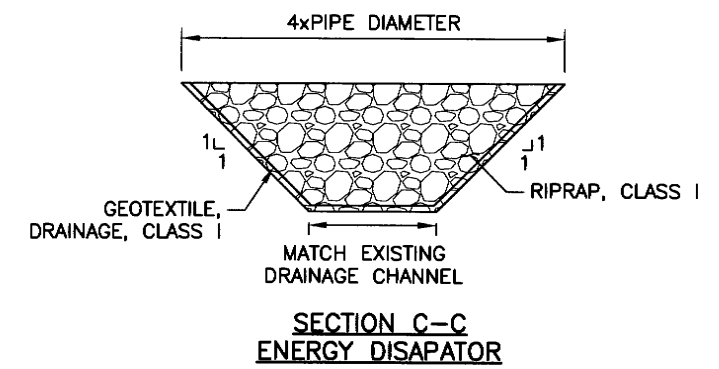
- NOTES:**
- SEE UD SHEETS FOR CULVERT SIZE AND LENGTH.
 - INSTALL ROCK LINED FLUME ON SLOPES STEEPER THAN 3H:1V, EXTEND TO ROW OR TO WHERE SLOPE FLATTENS TO LESS THAN 3H:1V, WHICHEVER IS SHORTER, UNLESS NOTED OTHERWISE OR OTHERWISE DIRECTED BY ENGINEER.



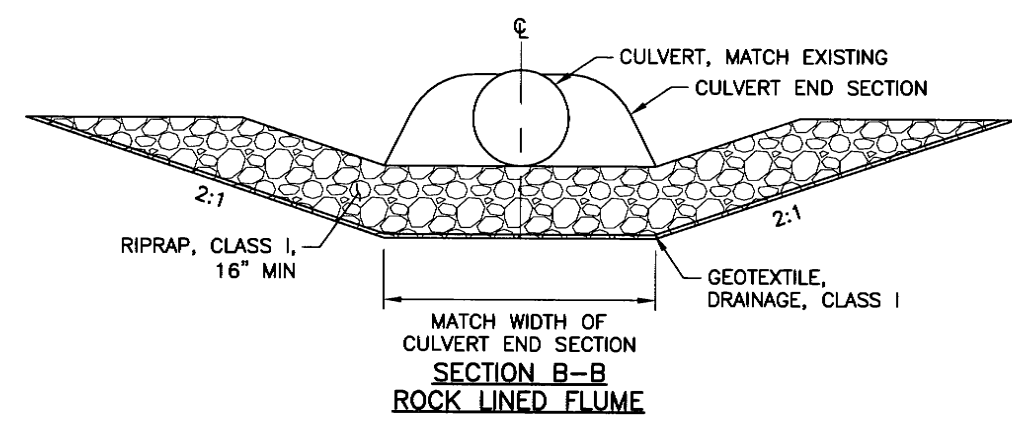
TYPICAL CULVERT EXTENSION DETAIL



TYPICAL END SECTION



SECTION A-A CULVERT BEDDING



SECTION B-B ROCK LINED FLUME

PS&E REVIEW 10/01/13

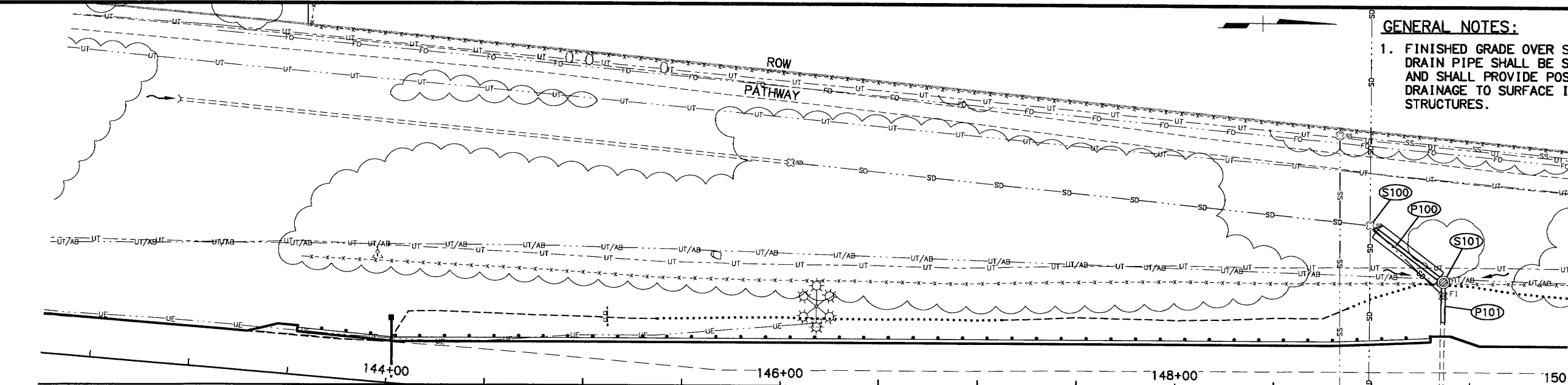
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DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

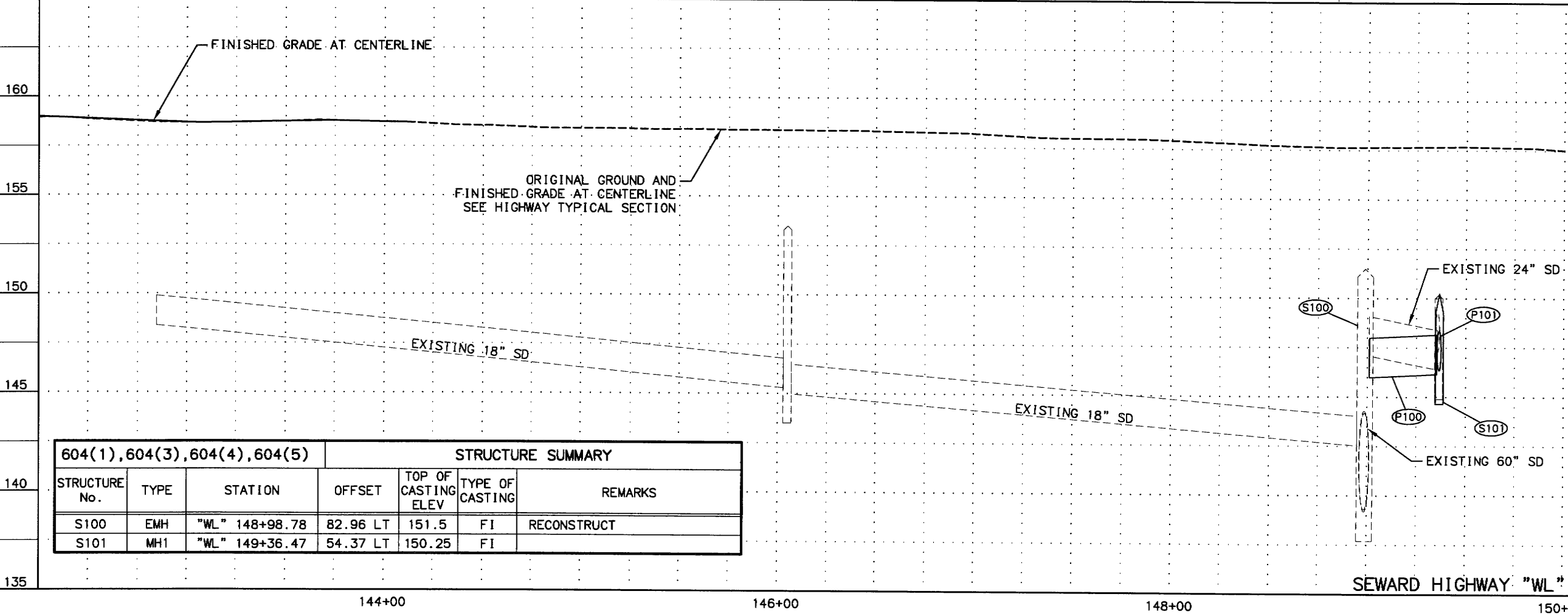
CULVERT DETAILS

HATTENBURG DILLEY & LINNELL

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DATE 10/01/13
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TIME 12:43 PM
DATE 10/01/13
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603(1),603(3)			PIPE SUMMARY					
PIPE No.	SIZE (IN)	PAY LENGTH (FT)	INLET STRUCTURE	INLET INVERT	OUTLET STRUCTURE	OUTLET INVERT	SLOPE (%)	REMARKS
P100	24	47	S101	146.16	S100	146.00	0.37	RECONSTRUCTED MANHOLE
P101	24	20	S100	146.69	S101	146.36	1.78	EXTEND EXISTING CULVERT



604(1), 604(3), 604(4), 604(5)			STRUCTURE SUMMARY			
STRUCTURE No.	TYPE	STATION	OFFSET	TOP OF CASTING ELEV	TYPE OF CASTING	REMARKS
S100	EMH	"WL" 148+98.78	82.96 LT	151.5	FI	RECONSTRUCT
S101	MH1	"WL" 149+36.47	54.37 LT	150.25	FI	

GENERAL NOTES:
1. FINISHED GRADE OVER STORM DRAIN PIPE SHALL BE SMOOTH AND SHALL PROVIDE POSITIVE DRAINAGE TO SURFACE INTAKE STRUCTURES.

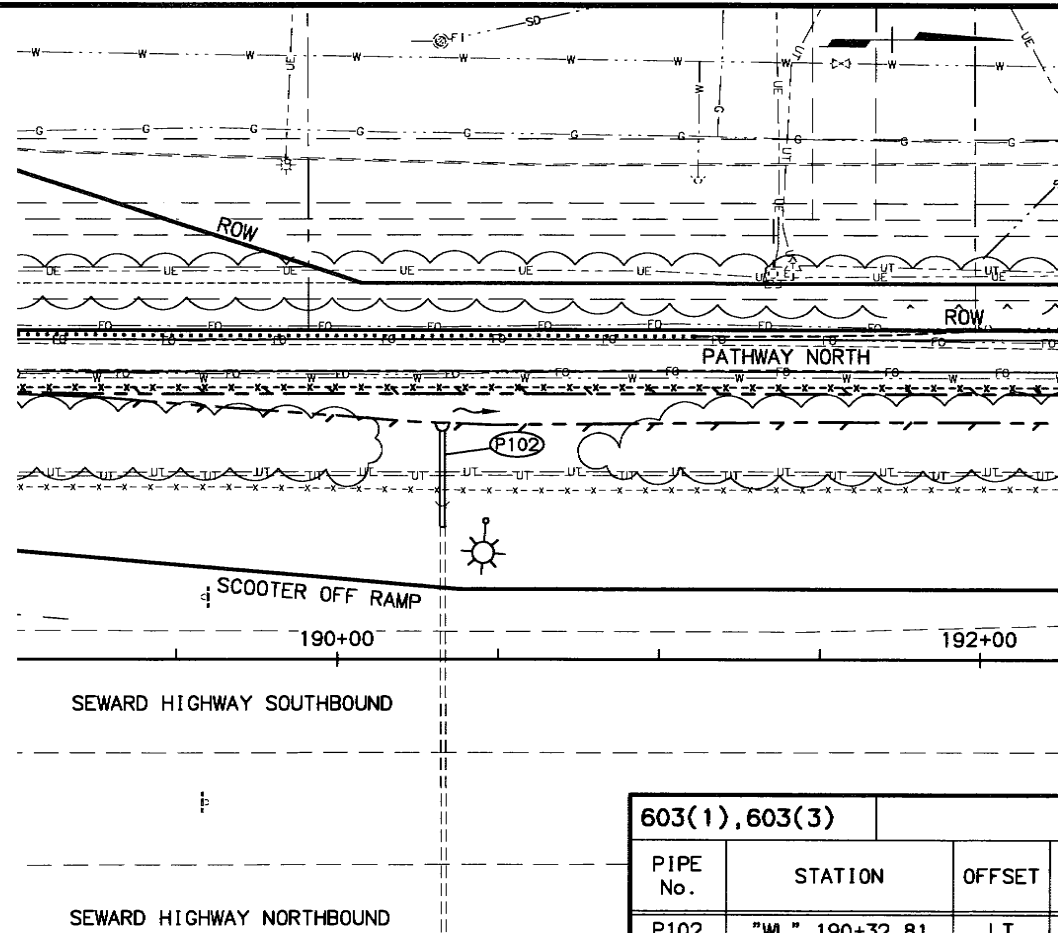
SHEET NO.	TOTAL SHEETS	
UD7	UD12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD
SCOOTER AVENUE
SEWARD HIGHWAY
OLD SEWARD

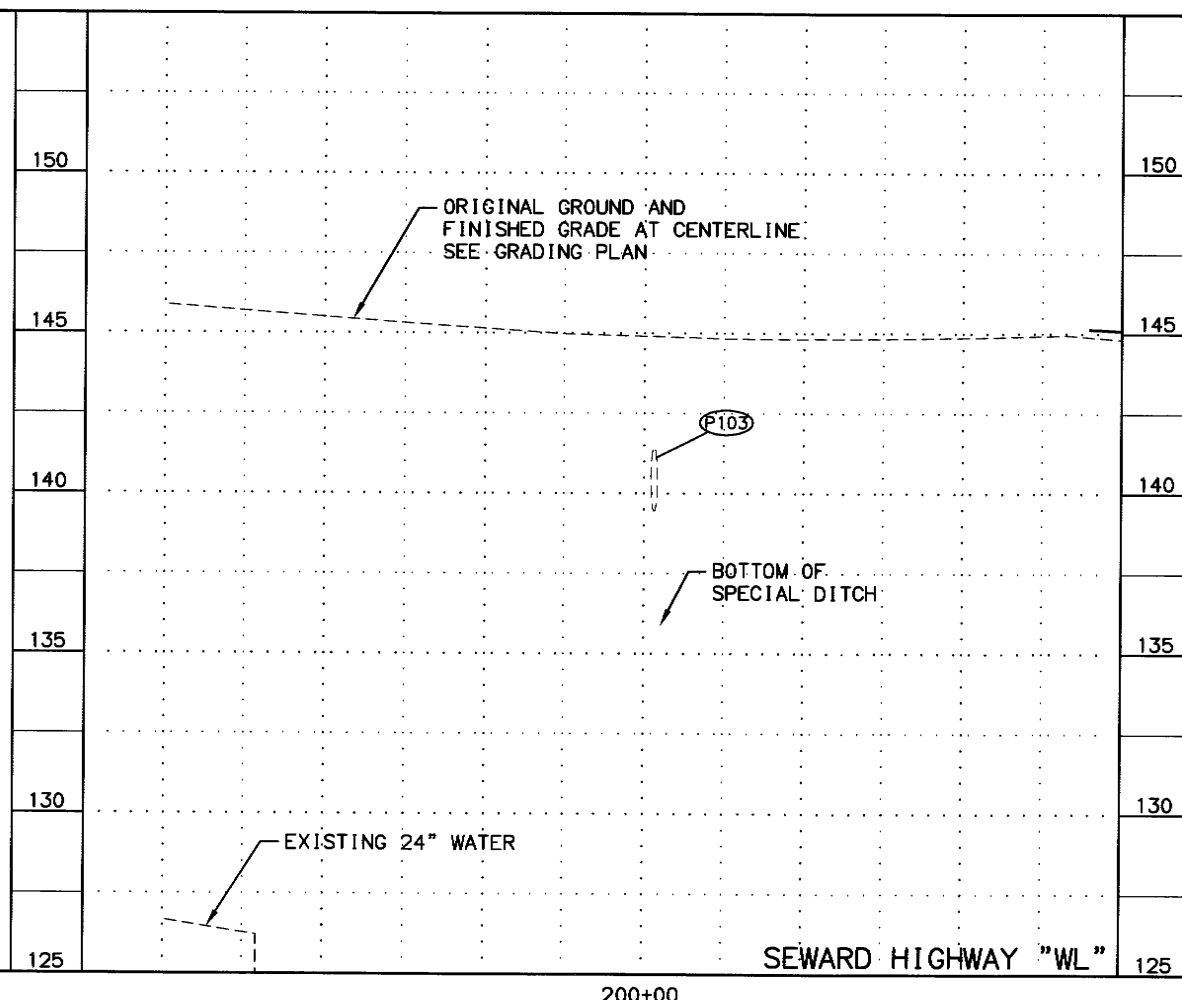
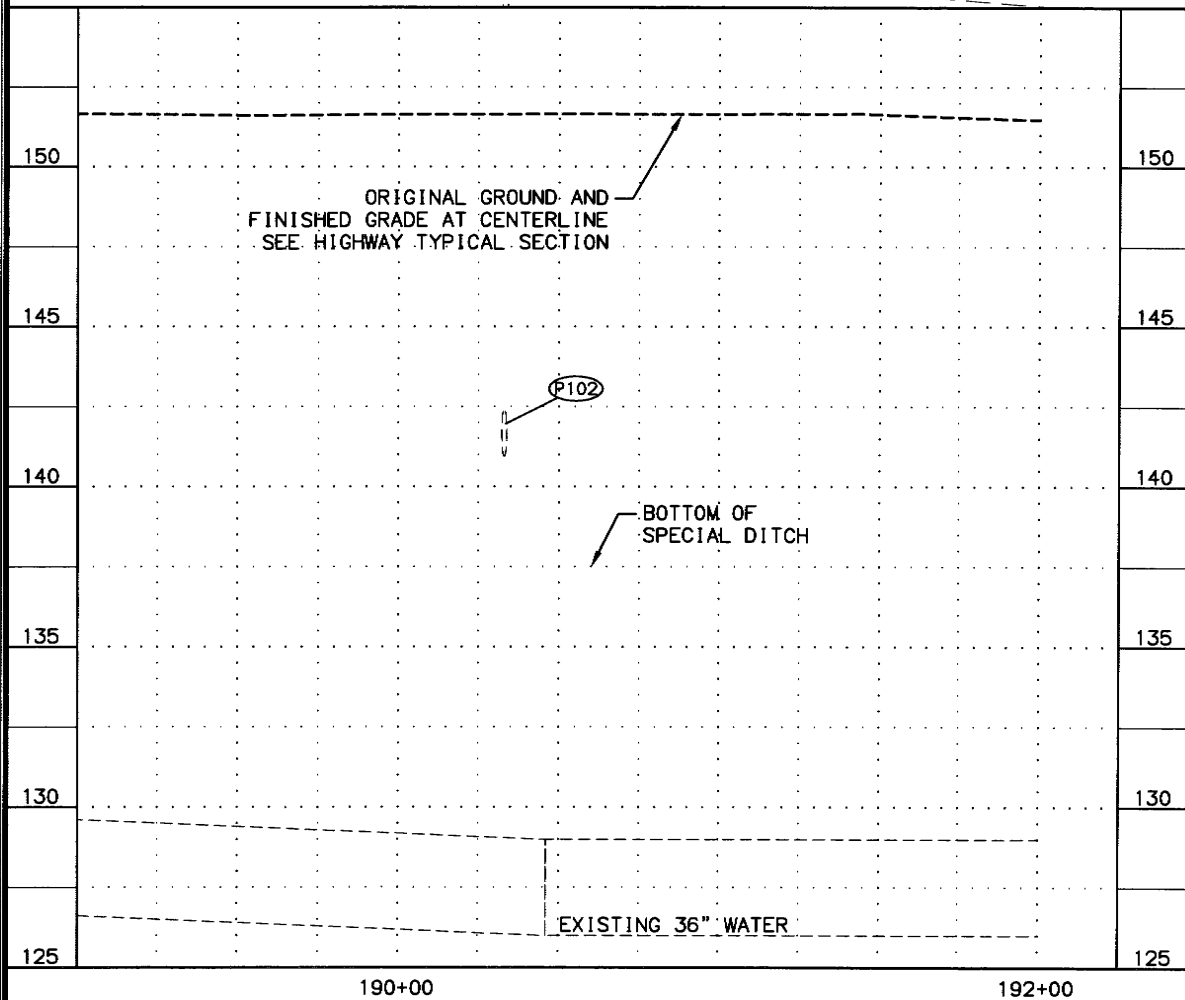
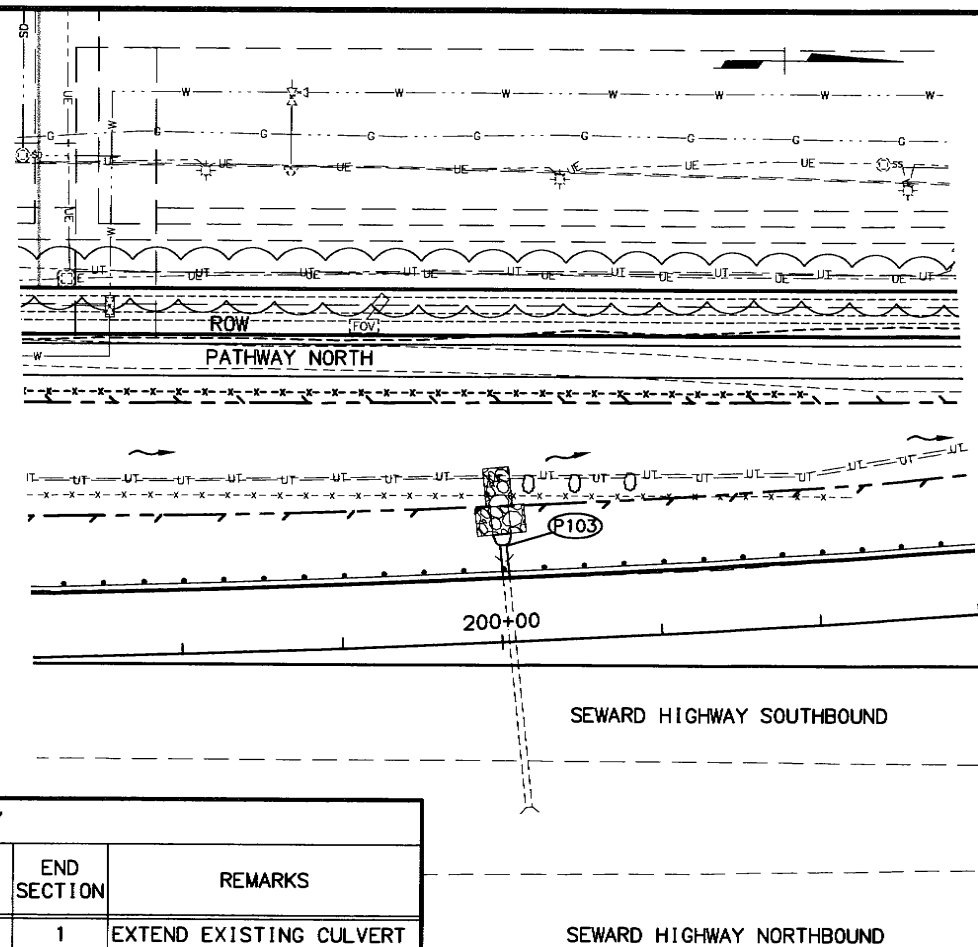
0'MALLEY RD
PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR
SEWARD HIGHWAY STORM DRAIN LAYOUT



603(1), 603(3)		CULVERT SUMMARY							
PIPE No.	STATION	OFFSET	SIZE (IN)	PAY LENGTH (FT)	INLET INVERT	OUTLET INVERT	SLOPE (%)	END SECTION	REMARKS
P102	"WL" 190+32.81	LT	18	30.0	138.3±	137.58	2.96	1	EXTEND EXISTING CULVERT
P103	"WL" 200+01.80	LT	24	10.0	139.4±	139.36	1.02	1	REMOVE & EXTEND EXISTING CULVERT



SHEET NO.		TOTAL SHEETS	
UD8		UD12	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

DIMOND BLVD

OLD SEWARD

SCOOTER AVENUE

SEWARD HIGHWAY

O'MALLEY RD

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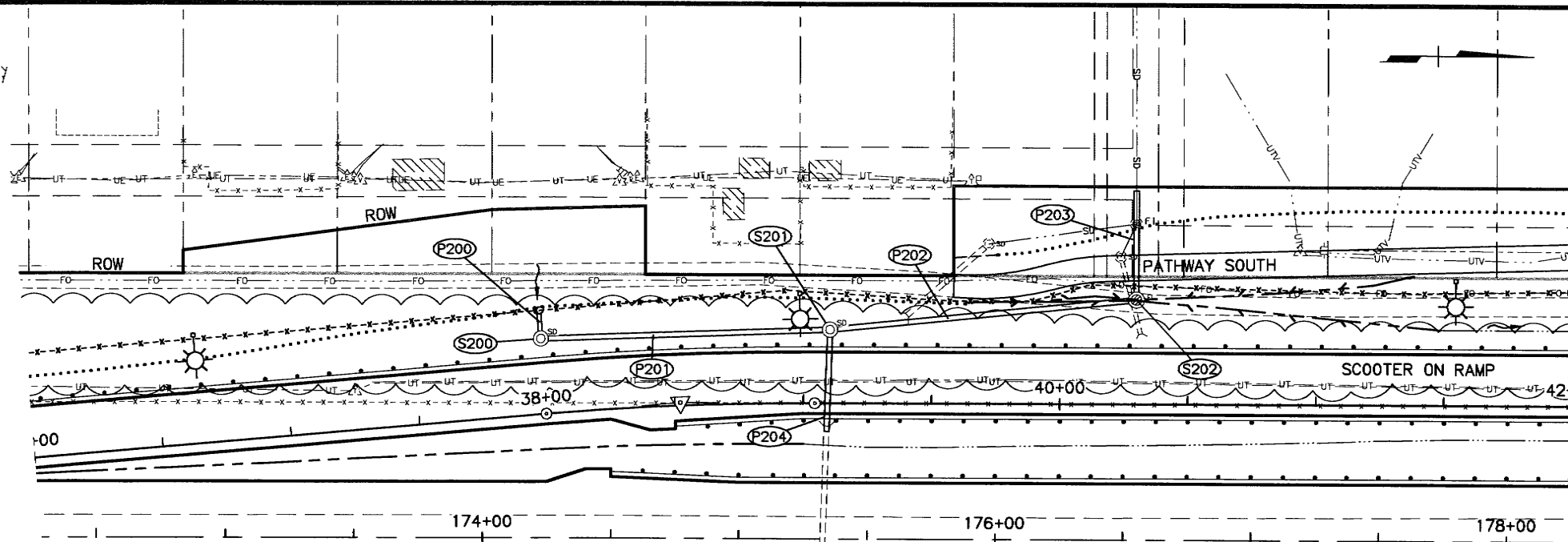
HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

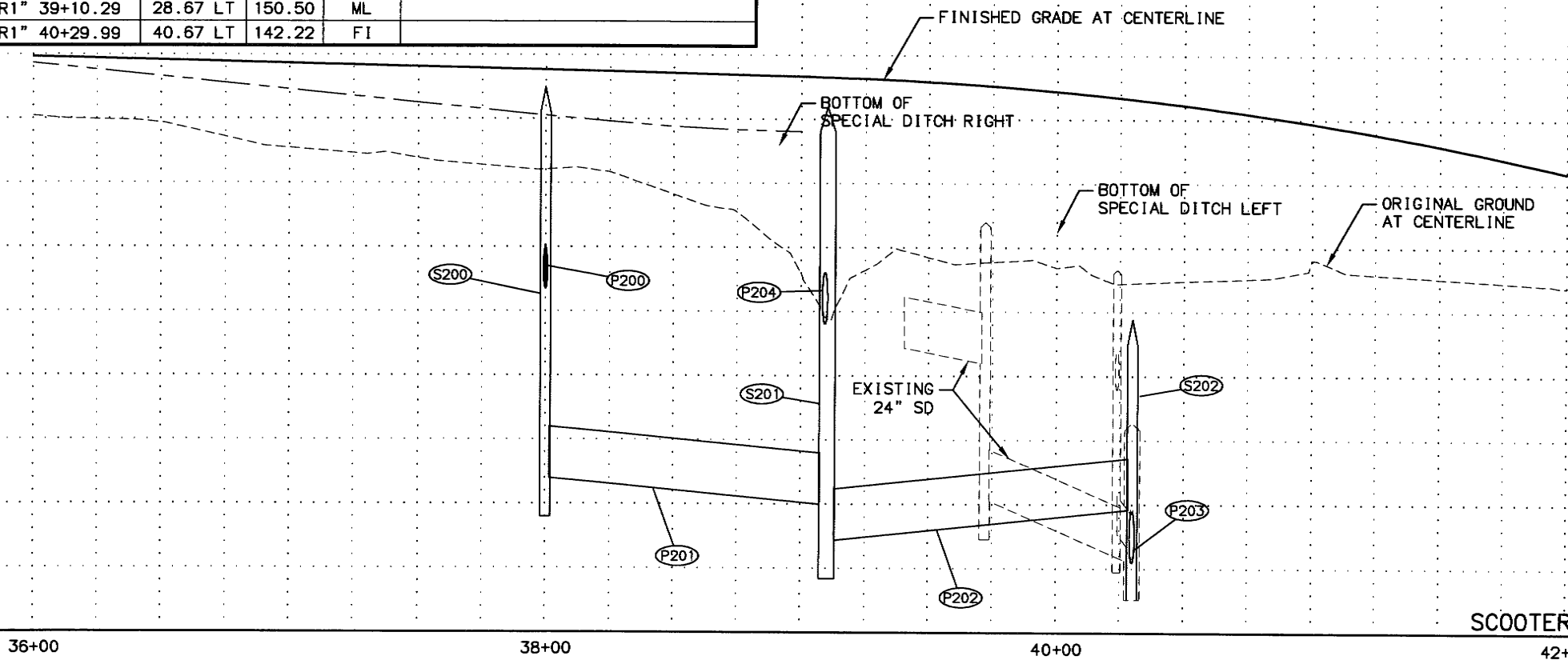
SEWARD HIGHWAY
STORM DRAIN LAYOUT

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CHECKED BY JMF
DRAWN BY BLY/NAV
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DATE 10/01/13
TIME 12:43 PM
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DATE 10/01/13
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603(1),603(3)			PIPE SUMMARY					
PIPE No.	SIZE (IN)	PAY LENGTH (FT)	INLET STRUCTURE	INLET INVERT	OUTLET STRUCTURE	OUTLET INVERT	SLOPE (%)	REMARKS
P200	18	10	-	143.56	S200	143.41	1.90	
P201	24	113	S200	136.00	S201	135.00	0.92	
P202	24	120	S201	134.80	S202	133.60	1.04	
P203	24	43	S202	133.39	-	132.75	1.57	CONNECT TO EXISTING PIPE
P204	24	40	EXIST	142.22	S201	141.59	1.71	EXTEND EXISTING CULVERT, INSULATE 8'

604(1),604(3),604(4),604(5)			STRUCTURE SUMMARY			
STRUCTURE No.	TYPE	STATION	OFFSET	TOP OF CASTING ELEV	TYPE OF CASTING	REMARKS
S200	MH1	"R1" 38+00.00	29.34 LT	151.25	ML	
S201	MH2	"R1" 39+10.29	28.67 LT	150.50	ML	
S202	MH1	"R1" 40+29.99	40.67 LT	142.22	FI	



SHEET NO.	TOTAL SHEETS	
UD9	UD12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

DIMOND BLVD

OLD SEWARD

SCOOTER AVENUE

SEWARD HIGHWAY

0' MALLEY RD

PS&E REVIEW 10/01/13

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HATTENBURG DILLEY & LINNELL

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

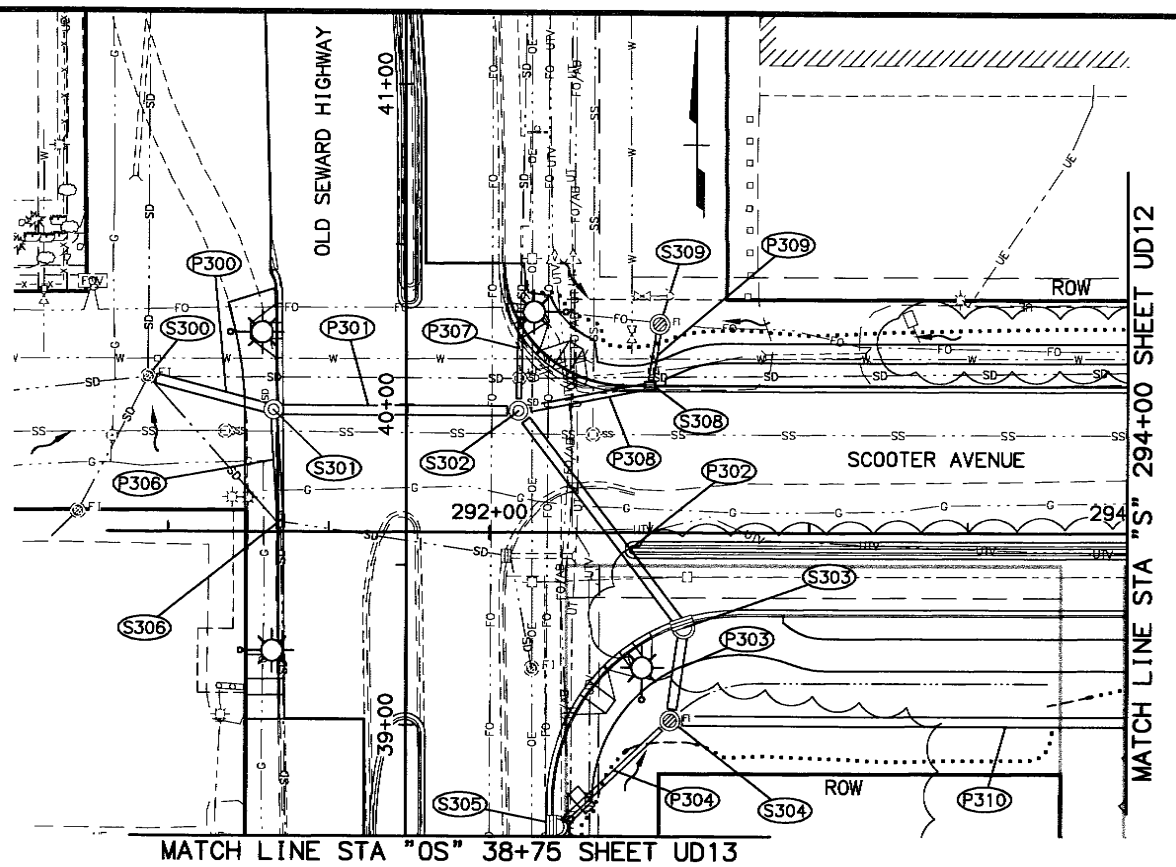
SCOOTER ON RAMP
STORM DRAIN LAYOUT

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DRAWN BY JMF

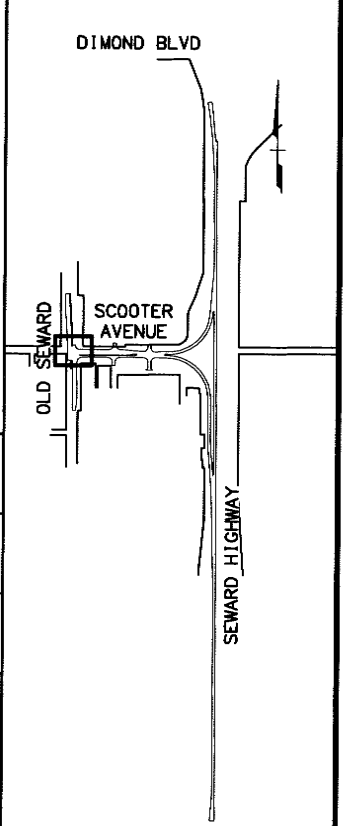
603(1),603(3)			PIPE SUMMARY					
PIPE No.	SIZE (IN)	PAY LENGTH (FT)	INLET STRUCTURE	INLET INVERT	OUTLET STRUCTURE	OUTLET INVERT	SLOPE (%)	REMARKS
P300	36	40	S301	110.40	S300	110.20	0.57	RECONSTRUCTED MANHOLE
P301	36	76	S302	111.07	S301	110.60	0.67	
P302	36	86	S303	111.70	S302	111.27	0.55	
P303	36	30	S304	112.05	S303	111.90	0.61	
P304	18	49	S305	115.50	S304	112.80	5.83	
P306	24	35	S306	113.30	S301	113.01	1.00	CONNECT TO EXISTING CB
P307	18	29	-	112.32	S302	112.26	0.24	CONNECT TO EXISTING PIPE
P308	24	42	S308	111.45	S302	111.27	0.50	
P309	18	19	S309	111.72	S308	111.55	1.08	
P310	36	298	S310	114.00	S304	112.25	0.60	

604(1),604(3),604(4),604(5)			STRUCTURE SUMMARY			
STRUCTURE No.	TYPE	STATION	OFFSET	TOP OF CASTING ELEV	TYPE OF CASTING	REMARKS
S300	EMH	"S" 290+93.59	48.34 LT	115.40	FI	RECONSTRUCTED MANHOLE
S301	MH2	"S" 291+32.71	38.10 LT	119.83	ML	
S302	MH3	"S" 292+08.93	37.95 LT	119.89	ML	INSTALL MANHOLE LID NW OF CENTERLINE
S303	MH2*	"S" 292+60.31	27.85 RT	119.62	CB & ML	
S304	MH3**	"S" 292+56.72	58.72 RT	118.80	FI	
S305	MH2*	"S" 292+21.22	91.91 RT	121.49	CB & ML	
S306	EMH	"S" 291+35.16	2.92 LT	119.89	CB	RECONSTRUCTED MANHOLE
S308	MH1	"S" 292+50.00	45.80 LT	119.10	CB	
S309	MH1	"S" 292+53.11	64.97 LT	117.32	FI	

* MODIFIED STORM DRAIN MANHOLE, TYPE 2, STANDARD CURB INLET, AND MANHOLE LID AS SHOWN ON DETAIL XX.
** MODIFIED REDUCING SLAB, TYPE 3, AS SHOWN ON DETAIL XX.



SHEET NO.		TOTAL SHEETS	
UD10		UD12	
STATE		YEAR	
ALASKA		2014	
PROJECT DESIGNATION			
59770			
ADDENDUM NO.			
ATTACHMENT NO.			
REVISIONS			
NO.	DATE	DESCRIPTION	

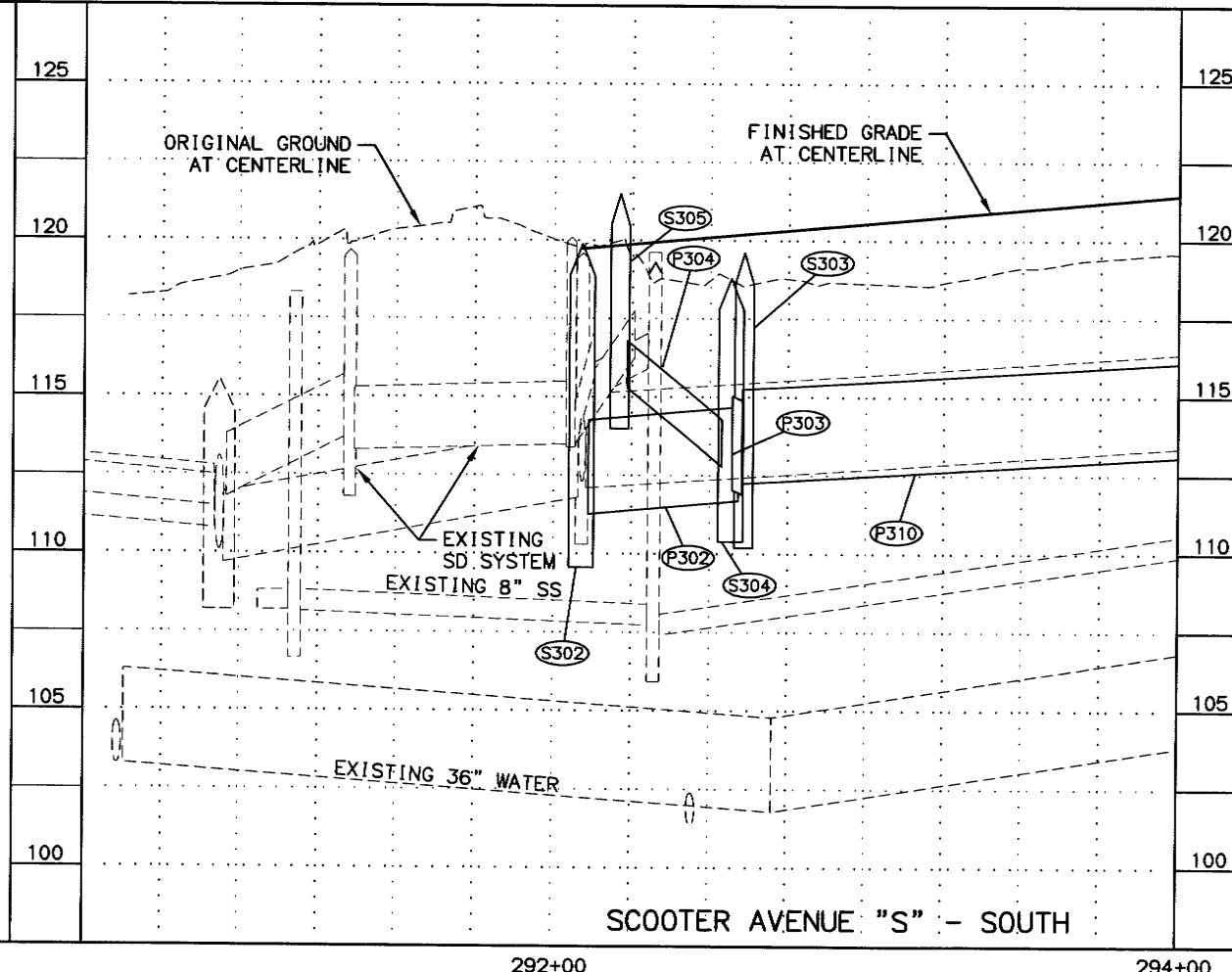
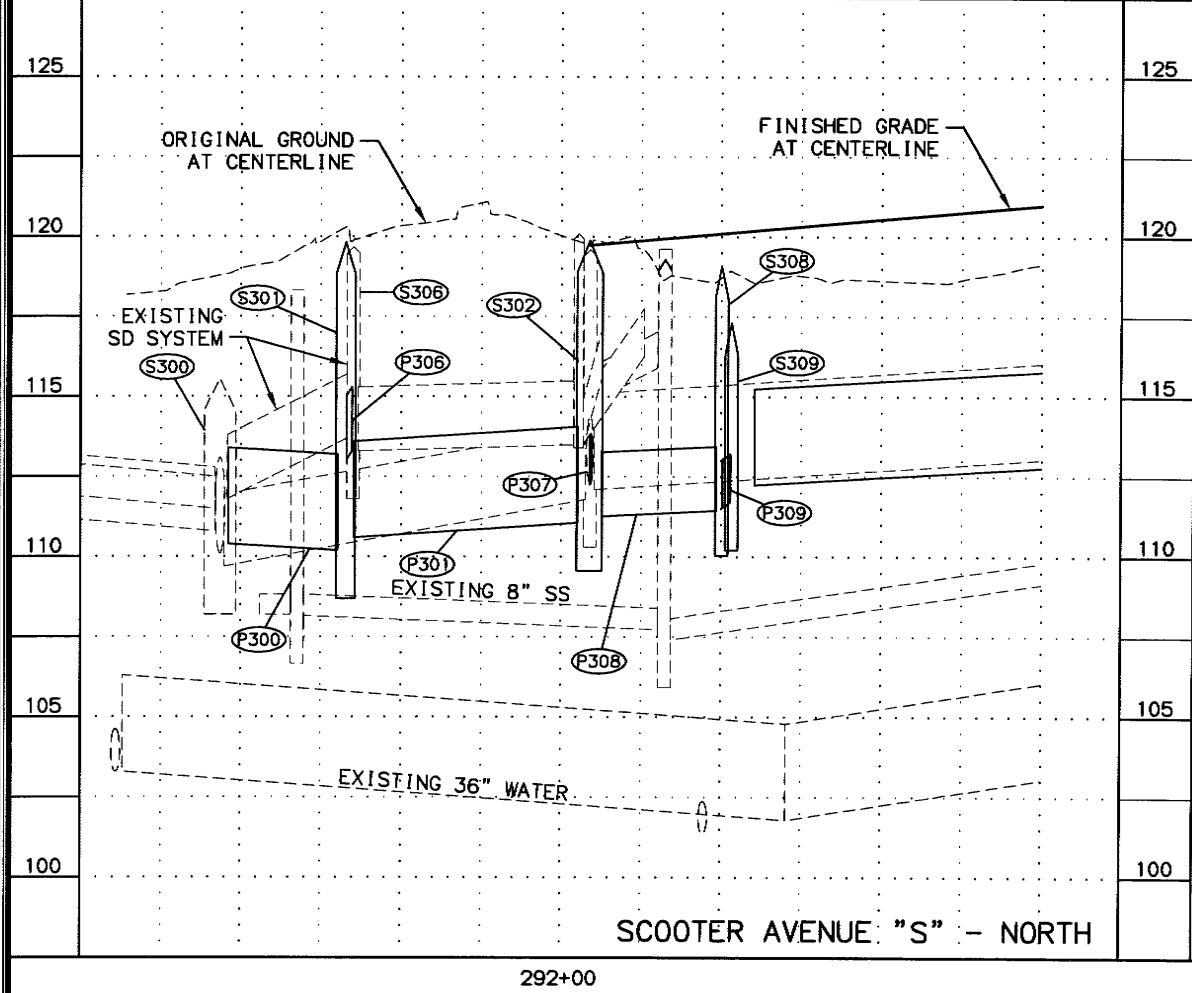


0'MALLEY RD
PS&E REVIEW 10/01/13

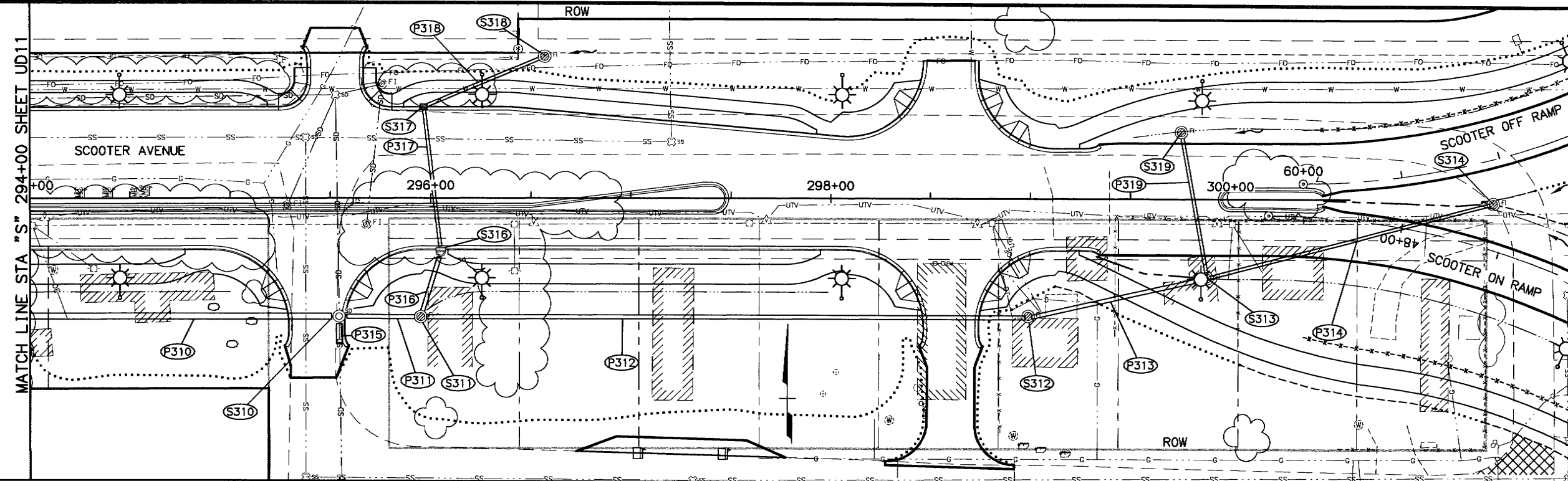
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HATTENBURG DILLEY & LINNELL
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

SCOOTER AVENUE
STORM DRAIN LAYOUT
"S" 290+50 TO "S" 293+50

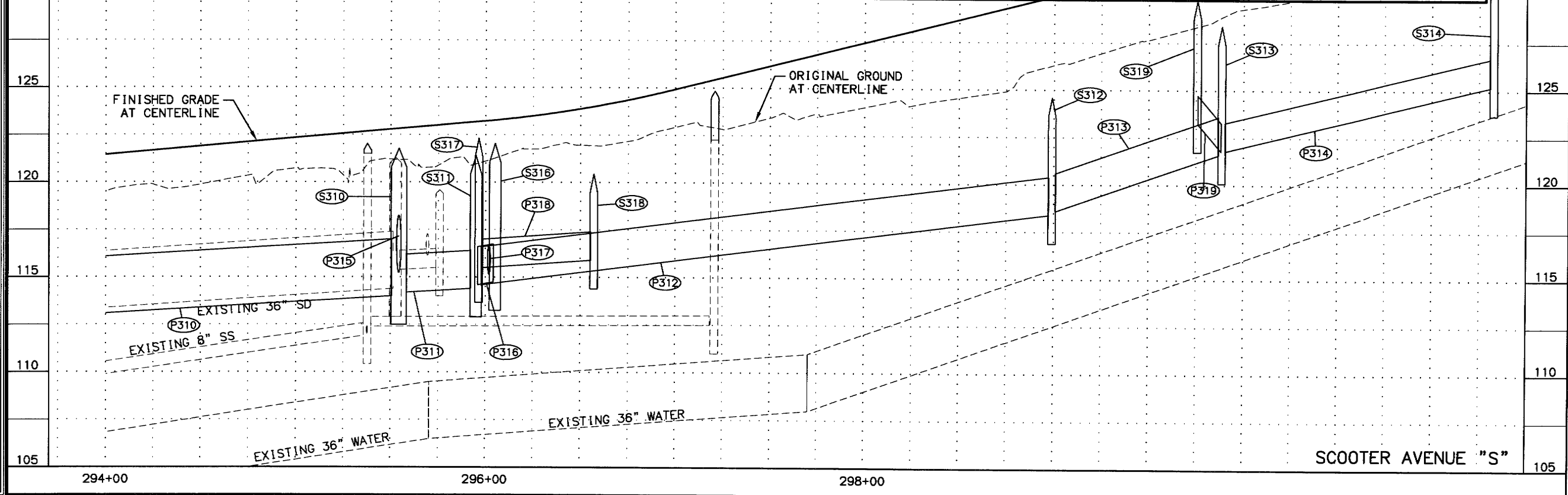


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603(1), 603(3)		PIPE SUMMARY						
PIPE No.	SIZE (IN)	PAY LENGTH (FT)	INLET STRUCTURE	INLET INVERT	OUTLET STRUCTURE	OUTLET INVERT	SLOPE (%)	REMARKS
P311	24	41	S311	114.40	S310	141.20	0.59	
P312	24	304	S312	118.40	S311	114.60	1.27	
P313	24	92	S313	121.60	S312	118.60	3.40	
P314	18	149	S314	125.20	S313	121.80	2.34	
P315	36	14	-	115.33	S310	115.24	0.90	CONNECT TO EXISTING PIPE
P316	24	34	S316	114.75	S311	114.60	0.53	
P317	24	73	S317	115.30	S316	114.95	0.51	
P318	18	66	S318	115.90	S317	115.50	0.65	INSULATE 8'
P319	18	74	S319	123.25	S313	121.80	2.06	

604(1), 604(3), 604(4), 604(5)			STRUCTURE SUMMARY			
STRUCTURE No.	TYPE	STATION	OFFSET	TOP OF CASTING ELEV	TYPE OF CASTING	REMARKS
S310	MH3**	"S" 295+54.23	59.27 RT	121.78	ML	INSTALL MH LID EAST OF CENTERLINE
S311	MH1	"S" 295+95.00	59.50 RT	121.40	FI	
S312	MH1	"S" 298+99.00	59.50 RT	124.60	FI	
S313	MH1	"S" 299+88.50	39.50 RT	128.40	FI	
S314	MH1	"S" 301+32.50	2.00 RT	131.50	FI	
S316	MH2*	"S" 296+05.00	27.00 RT	122.05	CB&ML	
S317	MH1	"S" 295+96.50	45.81 LT	122.32	CB	
S318	MH1	"S" 296+57.00	71.00 LT	120.45	FI	
S319	MH1	"S" 299+75.50	33.50 LT	129.75	FI	



SHEET NO. UD11TOTAL SHEETS UD12

STATE ALASKAYEAR 2014

PROJECT DESIGNATION 59770

ADDENDUM NO.

ATTACHMENT NO.

REVISIONS

NO. DATE DESCRIPTION

DIMOND BLVD

SCOOTER AVENUE

OLD SEWARD

SEWARD HIGHWAY

0'MALLEY RD

PS&E REVIEW 10/01/13

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STATE OF ALASKA

DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES

SEWARD HIGHWAY: 92ND AVENUE CONNECTOR

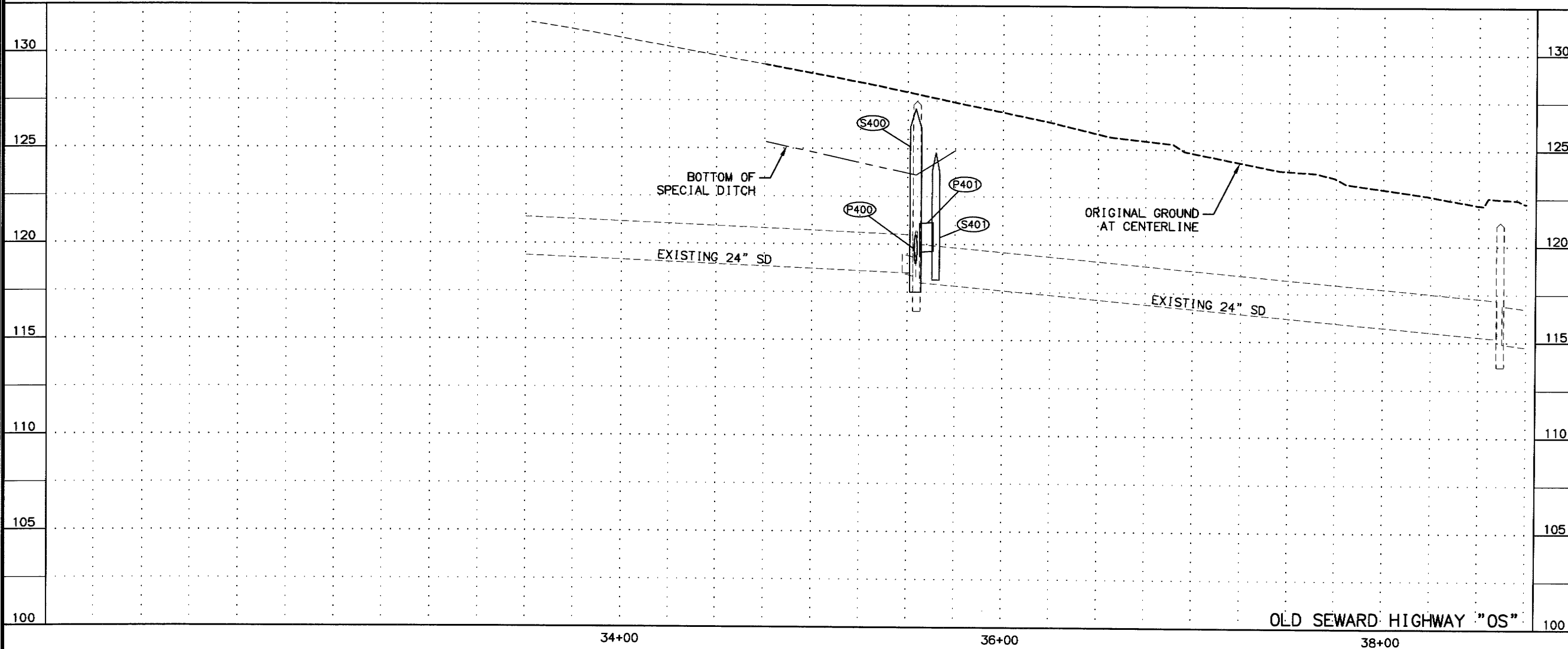
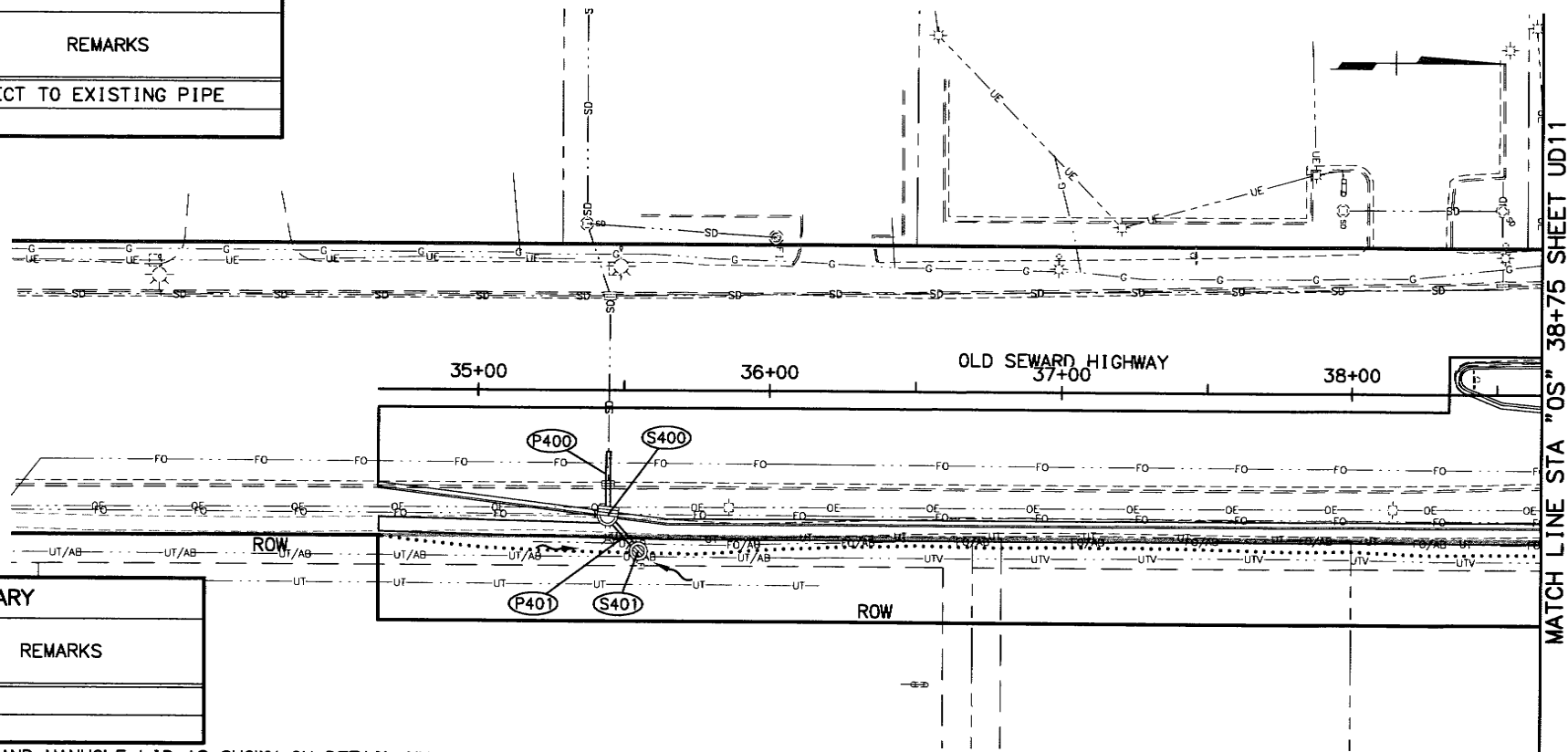
SCOOTER AVENUE STORM DRAIN LAYOUT "S" 293+50 TO "S" 299+50

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603(1), 603(3)		PIPE SUMMARY						
PIPE No.	SIZE (IN)	PAY LENGTH (FT)	INLET STRUCTURE	INLET INVERT	OUTLET STRUCTURE	OUTLET INVERT	SLOPE (%)	REMARKS
P400	18	22	S400	119.41	-	119.01	1.93	CONNECT TO EXISTING PIPE
P401	18	16	S401	119.65	S400	119.60	0.44	

604(1), 604(3), 604(4), 604(5)				STRUCTURE SUMMARY		
STRUCTURE No.	TYPE	STATION	OFFSET	TOP OF CASTING ELEV	TYPE OF CASTING	REMARKS
S400	MH2*	"OS" 35+44.44	42.94 RT	127.1	CB&ML	
S401	MH1	"OS" 35+55.00	55.00 RT	124.8	F1	

* MODIFIED STORM DRAIN MANHOLE, TYPE 2, STANDARD CURB INLET, AND MANHOLE LID AS SHOWN ON DETAIL XX.



SHEET NO.	TOTAL SHEETS	
UD12	UD12	
STATE	YEAR	
ALASKA	2014	
PROJECT DESIGNATION		
59770		
ADDENDUM NO.		
ATTACHMENT NO.		
REVISIONS		
NO.	DATE	DESCRIPTION

0'MALLEY RD
PS&E REVIEW 10/01/13

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STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES
SEWARD HIGHWAY: 92ND AVENUE CONNECTOR
OLD SEWARD HIGHWAY STORM DRAIN LAYOUT
"OS" 33+50 TO "OS" 38+75