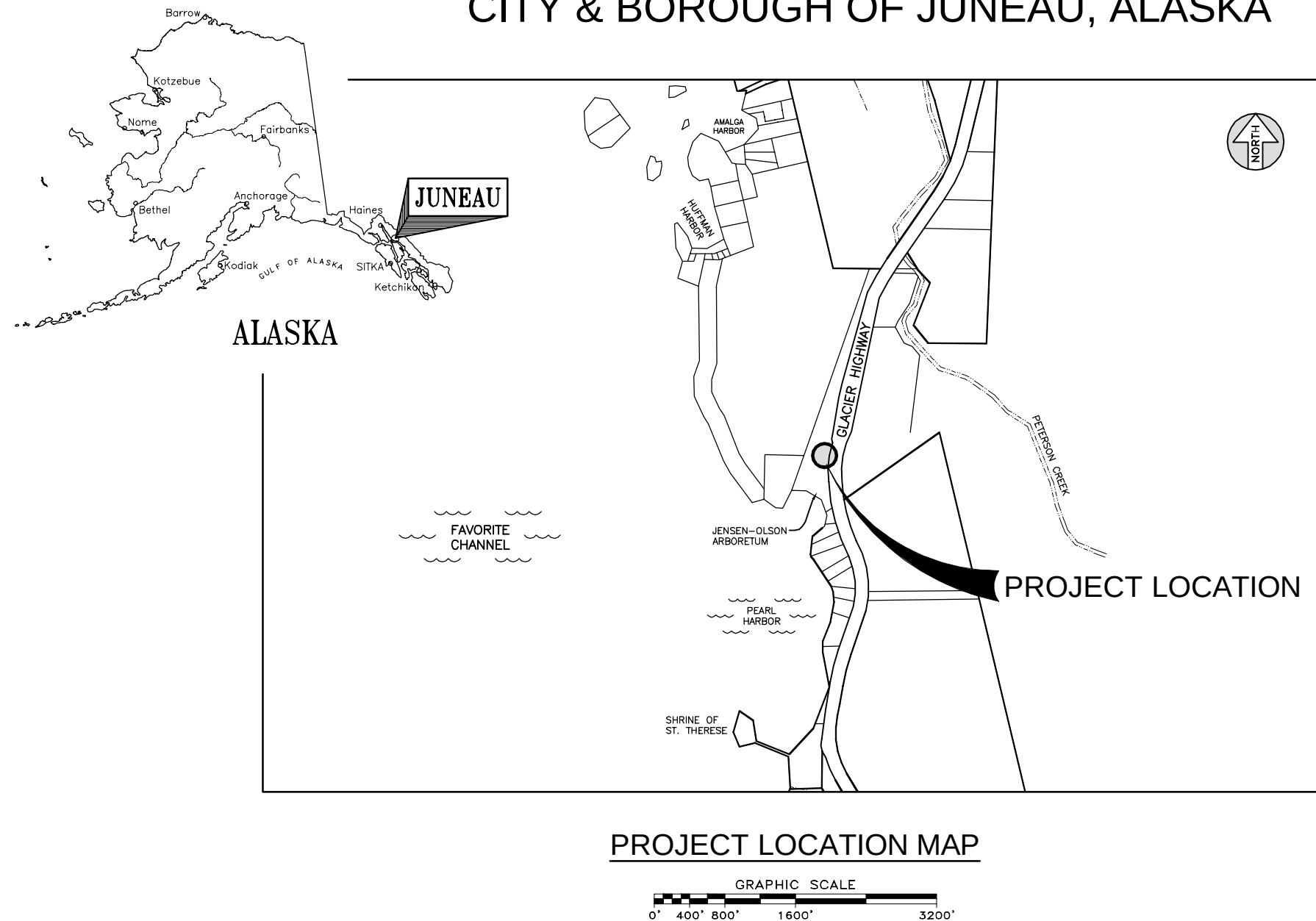


JENSEN-OLSON ARBORETUM PARKING LOT

CBJ CONTRACT No. BE18-077

CITY & BOROUGH OF JUNEAU, ALASKA

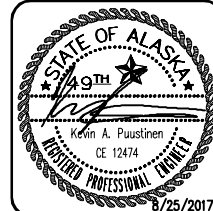


PROJECT LOCATION MAP

SHEET INDEX

SHEET No.	DESCRIPTION
C001	COVER SHEET
C002	GENERAL NOTES, ABBREVIATIONS AND SYMBOLS
C100	EXISTING CONDITIONS & SURVEY CONTROL PLAN
C200	BASE BID - SITE PLAN
C201	ADDITIVE ALTERNATE - SITE PLAN
C300	CROSS SECTIONS - STA. 10+70 & STA. 11+13
C301	CROSS SECTIONS - STA. 11+56

DESIGN	KAP		
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CHECK	JMP		
APPROVED	JMP		
No.	DATE	REVISION	



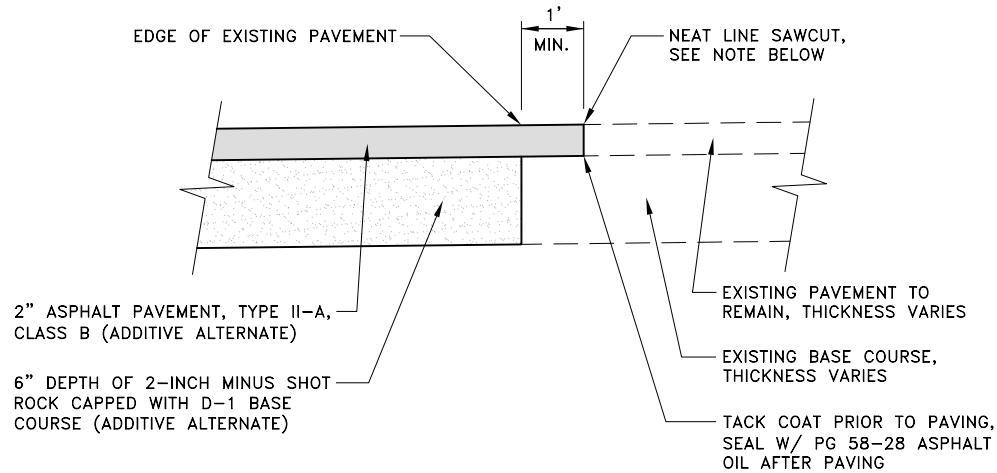
**JENSEN-OLSON
ARBORETUM PARKING LOT**
CBJ CONTRACT No. BE18-077
CITY & BOROUGH OF JUNEAU, ALASKA

COVER SHEET

DATE: AUGUST 25, 2017
PDC No. 17203JN
SHEET
C001

GENERAL CONSTRUCTION NOTES

1. CBJ ENGINEERING STANDARD DETAILS BOOK FOR CIVIL ENGINEERING PROJECTS AND SUBDIVISION IMPROVEMENTS DATED AUGUST, 2011 AND CBJ ENGINEERING STANDARD SPECIFICATIONS DATED DECEMBER, 2003 ARE MADE A PART OF THIS CONTRACT, WITH CURRENT REVISIONS AS APPLICABLE.
2. LARGE BOULDERS, HARDPAN, STUMPS, LOGS, ORGANICS AND GROUNDWATER MAY BE ENCOUNTERED AT VARIOUS DEPTHS DURING TRENCHING, DITCHING AND PARKING LOT EXCAVATION OPERATIONS. THESE MATERIALS SHALL BE DISPOSED OF AS REQUIRED BY THE ENGINEER.
3. GRADES AND ALIGNMENTS SHOWN ON THESE PLANS ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER.
4. LOCATION OF PIPING AND PIPE LENGTHS ARE SUBJECT TO MINOR REVISIONS AS APPROVED BY THE ENGINEER.
5. CONNECTION TO THE EXISTING DRIVEWAY IS APPROXIMATE AND SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.
6. NO UNDERGROUND UTILITIES ARE KNOWN TO EXIST ON THIS PROJECT SITE. CALL "DIAL BEFORE YOU DIG" @ 586-1333 FOR UNDERGROUND UTILITY LOCATES PRIOR TO ANY EXCAVATION ACTIVITIES. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING, PROTECTING AND MAINTAINING ANY UTILITIES THROUGHOUT THE CONSTRUCTION OF THIS PROJECT. ANY DAMAGE RESULTING TO UTILITIES DURING CONSTRUCTION SHALL BE PAID FOR BY THE CONTRACTOR AND SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
7. CONTRACTOR SHALL ASSURE GARBAGE PICKUP, DAILY MAIL SERVICE, FUEL AND SERVICE DELIVERIES WILL BE UNINTERRUPTED TO THE JENSEN-OLSON ARBORETUM THROUGHOUT THE DURATION OF THIS PROJECT.
8. PUBLIC ACCESS TO THE JENSEN-OLSON ARBORETUM MUST BE MAINTAINED WEDNESDAY THROUGH SUNDAY, 9AM-5PM. NO WORK CAN OCCUR ONSITE ON MAY 5 & 6, 2018 DUE TO AN ARBORETUM EVENT.
9. PROPERTY LINE LOCATIONS USED IN THESE PLANS WERE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.
10. ALL ITEMS DESIGNATED TO BE REMOVED SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL SITE, EXCEPT AS NOTED IN THE CONTRACT DOCUMENTS.
11. CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS (I.E. BRASS CAP MONUMENTS, REBARS OR CHISELED X'S) PRIOR TO CONSTRUCTION THAT WILL BE DISTURBED DURING HIS WORK, AND REMONUMENT AFTER CONSTRUCTION OPERATIONS. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR. ALL EXISTING PROPERTY CORNERS ARE NOT NECESSARILY SHOWN ON THE PLANS.
12. THE PLAN DRAWINGS DO NOT NECESSARILY SHOW ALL TREES AND SHRUBS THAT MAY BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO TREES, SHRUBS OR LANDSCAPING ARE TO BE REMOVED OR DAMAGED, UNLESS SHOWN ON THE DRAWINGS OR DIRECTED BY THE ENGINEER. CLEARING LIMITS SHALL BE STAKED OUT BY THE CONTRACTOR AND APPROVED BY CBJ PRIOR TO ANY TREE REMOVAL.
13. THE CONTRACTOR SHALL INSTALL AND MAINTAIN ENGINEER APPROVED EROSION CONTROL DEVICES DURING CONSTRUCTION PER SECTION 01570 REQUIREMENTS.
14. ADDITIONAL EXCAVATION BELOW THE NEATLINE SUBCUT LEVEL MAY BE REQUIRED BY THE ENGINEER IF ORGANIC OR OTHER UNSUITABLE MATERIALS ARE FOUND AT OR NEAR THE PLANNED SUBCUT LEVEL.
15. PROOF ROLLING BOTTOM OF SUBCUT EXCAVATION LIMITS SHALL BE PERFORMED USING A MINIMUM 10-TON SELF-PROPELLED VIBRATORY COMPACTOR. A MINIMUM OF TWO (2) PASSES (ONE PASS EQUALS DOWN AND BACK) SHALL BE MADE OVER THE SUBCUT SOILS AND APPROVED BY THE ENGINEER.



NOTE:
SAWCUT OF EXISTING PAVEMENT SHALL NOT BE MADE UNTIL 24 HOURS PRIOR TO FINAL PAVING.

ADDITIVE ALTERNATE
PAVEMENT MATCH JOINT DETAIL

1

N.T.S.

ABBREVIATIONS

ACS	ALASKA COMMUNICATIONS SYSTEMS
AEL&P	ALASKA ELECTRIC LIGHT & POWER
APPROX	APPROXIMATE
BOP	BEGINNING OF PROJECT
CBJ	CITY & BOROUGH OF JUNEAU
C/L	CENTERLINE
CONT	CONTINUOUS
CPP	CORRUGATED POLYETHYLENE PIPE
CTE	CONNECT TO EXISTING
DIP	DUCTILE IRON PIPE
DIA	DIAMETER
E	EASTING
EG	EXISTING GRADE
EL	ELEVATION
EOP	END OF PROJECT
EP	EDGE OF PAVEMENT
EXIST	EXISTING
FG	FINISH GRADE
GCI	GENERAL COMMUNICATION INC.
HDPE	HIGH DENSITY POLYETHYLENE
IE	INVERT ELEVATION
L	LENGTH
LP	LOW POINT
LT	LEFT
MAX	MAXIMUM
MIN	MINIMUM
MTE	MATCH TO EXISTING
N	NORTHING
N/A	NOT APPLICABLE
NFS	NON-FROST SUSCEPTIBLE
NTS	NOT TO SCALE
NVC	NO VERTICAL CURVE
OC	ON CENTER
PC	POINT OF CURVATURE
PERF	PERFORATED
PI	POINT OF INTERSECTION
P/L	PROPERTY LINE
PP	POWER POLE
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE
R	RADIUS
ROW	RIGHT-OF-WAY
RP	RADIUS POINT
RT	RIGHT
STA	STATION
STD	STANDARD
TBM	TEMPORARY BENCH MARK
TOB	TOP OF BANK
TOP	TOP OF PIPE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VC	VERTICAL CURVE
VERT	VERTICAL
VPI	VERTICAL POINT OF INTERSECTION
W/	WITH

SYMBOLS

EXISTING	PROPOSED	
---	---	PROPERTY LINE / RIGHT-OF-WAY
	---	PROJECT BASELINE
	=====	STORM DRAIN PIPE
	→...→...→	DRAINAGE DITCH
○		UTILITY POLE
←		UTILITY POLE ANCHOR WIRE
— OHU —		OVERHEAD UTILITIES
— TT TT TT TT	— TT TT TT TT	TOP OF BANK
.....		TOE OF SLOPE
⊠ ⊠	⊠ ⊠	SIGN / RELOCATED SIGN
⊠ →		MAILBOX
~~~~~	~~~~~	TREE LINE / CLEARING LIMITS
		CONIFER TREE (REMOVE)
⊠ TH-9		SOIL TEST HOLE LOCATION
	13	GRADE POINT

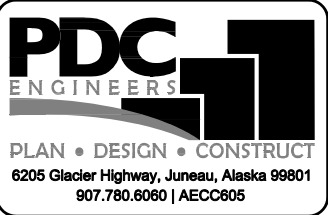
HAND TEST HOLE SOIL SUMMARY

TEST HOLE	DESCRIPTION
TH-1	0-2' ORGANICS, 2'-5' REDDISH BROWN SAND WITH GRAVEL, LOOSE
TH-2	0-0.8' ORGANICS, 0.8'-2.0' LARGE GRAY ROCK
TH-3	0-2' ORGANICS, 2'-5' REDDISH BROWN SAND WITH GRAVEL, LOOSE
TH-4	0-0.5' ORGANICS, 0.5'-1' SAND & GRAVEL, DENSE
TH-5	0-1.5' ORGANICS, 1.5'-2' REDDISH BROWN SAND & GRAVEL, DENSE
TH-6	0-0.5' ORGANICS, 0.5'-2' REDDISH BROWN SAND & GRAVEL
TH-7	0-0.3' ORGANICS, 0.3'+ SAND & GRAVEL, DENSE
TH-8	0-1' ORGANICS, 1'-2' REDDISH BROWN SAND & GRAVEL
TH-9	0-1.6' ORGANICS, 1.6'+ REDDISH BROWN SAND & GRAVEL
TH-10	0-0.3' ORGANICS, 0.3'+ SAND & GRAVEL, DENSE

**NOTE:** HAND TEST HOLES WERE PERFORMED ON AUGUST 1, 2017 BY PDC ENGINEERS. NO GROUNDWATER WAS ENCOUNTERED IN ANY OF THE TEST HOLES.

DESIGN KAP  
DRAWN KAP  
CHECK JMP  
APPROVED JMP

No.	DATE	REVISION



JENSEN-OLSON  
ARBORETUM PARKING LOT  
CBJ CONTRACT No. BE18-077  
CITY & BOROUGH OF JUNEAU, ALASKA

GENERAL NOTES,  
ABBREVIATIONS AND  
SYMBOLS

DATE: AUGUST 25, 2017  
PDC No. 17203JN  
SHEET C002

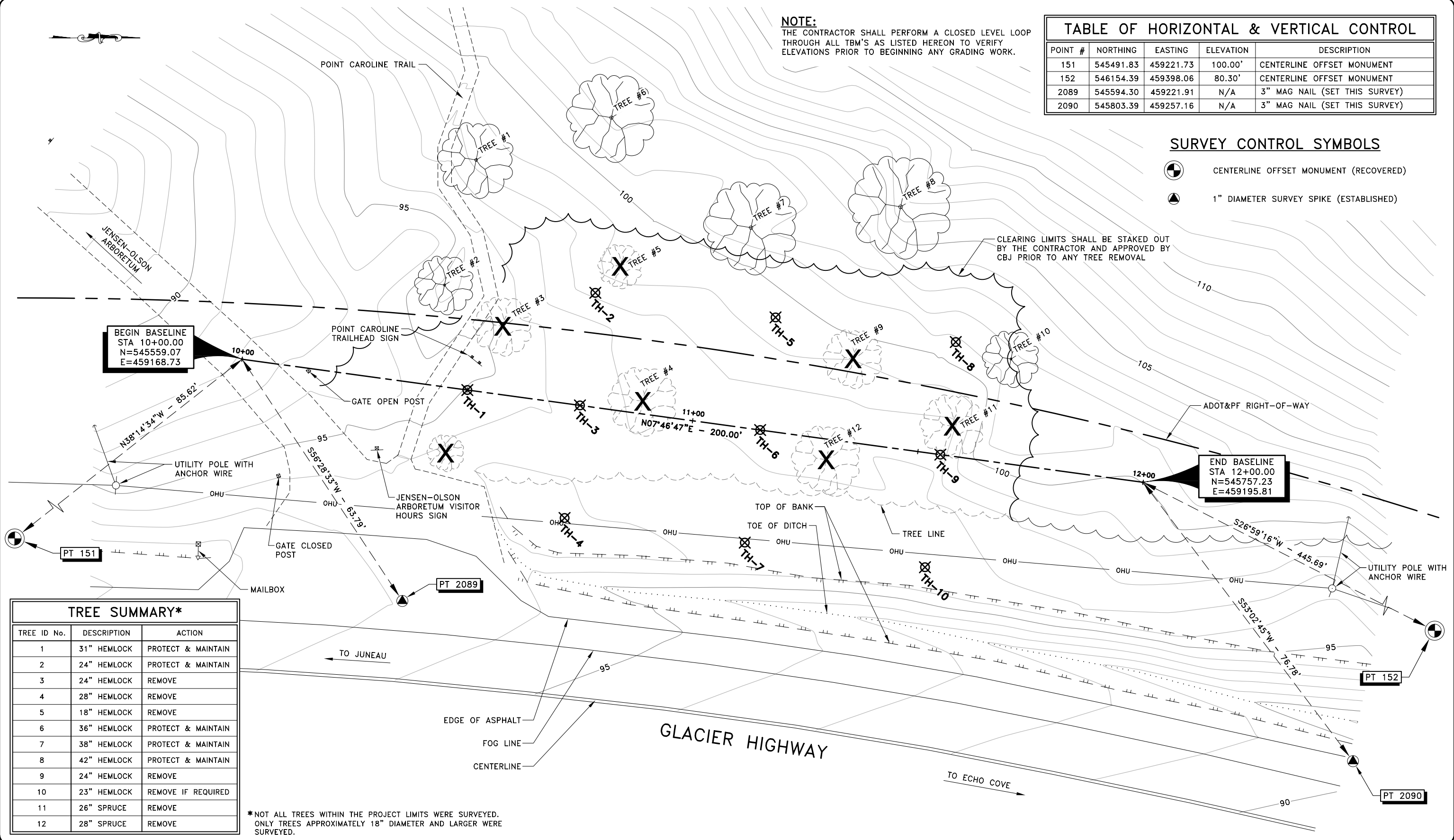


TABLE OF HORIZONTAL & VERTICAL CONTROL				
POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
151	545491.83	459221.73	100.00'	CENTERLINE OFFSET MONUMENT
152	546154.39	459398.06	80.30'	CENTERLINE OFFSET MONUMENT
2089	545594.30	459221.91	N/A	3" MAG NAIL (SET THIS SURVEY)
2090	545803.39	459257.16	N/A	3" MAG NAIL (SET THIS SURVEY)

SURVEY CONTROL SYMBOLS

- CENTERLINE OFFSET MONUMENT (RECOVERED)
- 1" DIAMETER SURVEY SPIKE (ESTABLISHED)

TREE SUMMARY*		
TREE ID No.	DESCRIPTION	ACTION
1	31" HEMLOCK	PROTECT & MAINTAIN
2	24" HEMLOCK	PROTECT & MAINTAIN
3	24" HEMLOCK	REMOVE
4	28" HEMLOCK	REMOVE
5	18" HEMLOCK	REMOVE
6	36" HEMLOCK	PROTECT & MAINTAIN
7	38" HEMLOCK	PROTECT & MAINTAIN
8	42" HEMLOCK	PROTECT & MAINTAIN
9	24" HEMLOCK	REMOVE
10	23" HEMLOCK	REMOVE IF REQUIRED
11	26" SPRUCE	REMOVE
12	28" SPRUCE	REMOVE

*NOT ALL TREES WITHIN THE PROJECT LIMITS WERE SURVEYED. ONLY TREES APPROXIMATELY 18" DIAMETER AND LARGER WERE SURVEYED.

DESIGN KAP

DRAWN KAP

CHECK JMP

APPROVED JMP

No.	DATE	REVISION



JENSEN-OLSON  
ARBORETUM PARKING LOT  
CBJ CONTRACT No. BE18-077

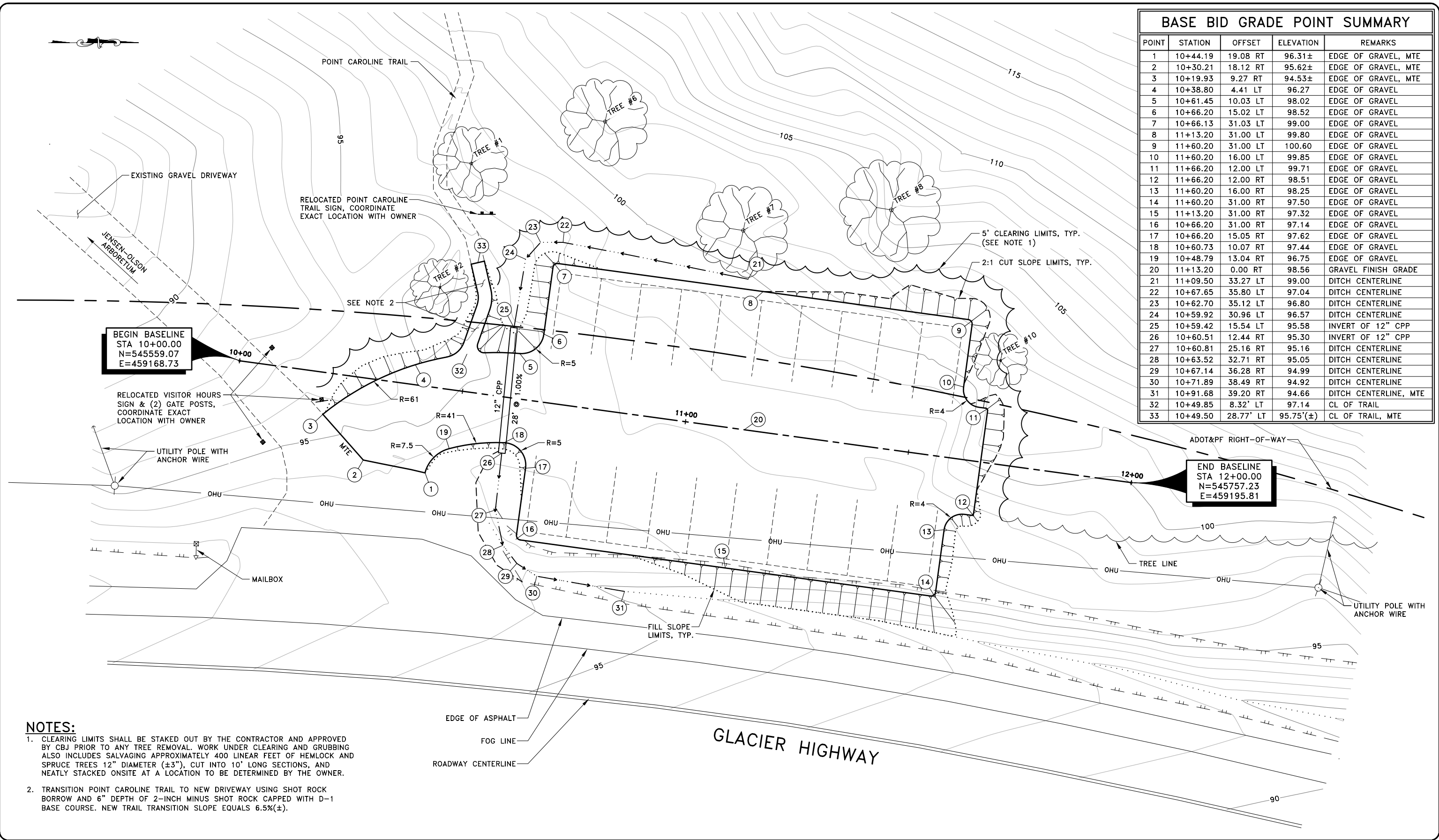
CITY & BOROUGH OF JUNEAU, ALASKA

EXISTING CONDITIONS &  
SURVEY CONTROL PLAN

GRAPHIC SCALE  
0' 5' 10' 20' 40'  
CONTOUR INTERVAL = 1'

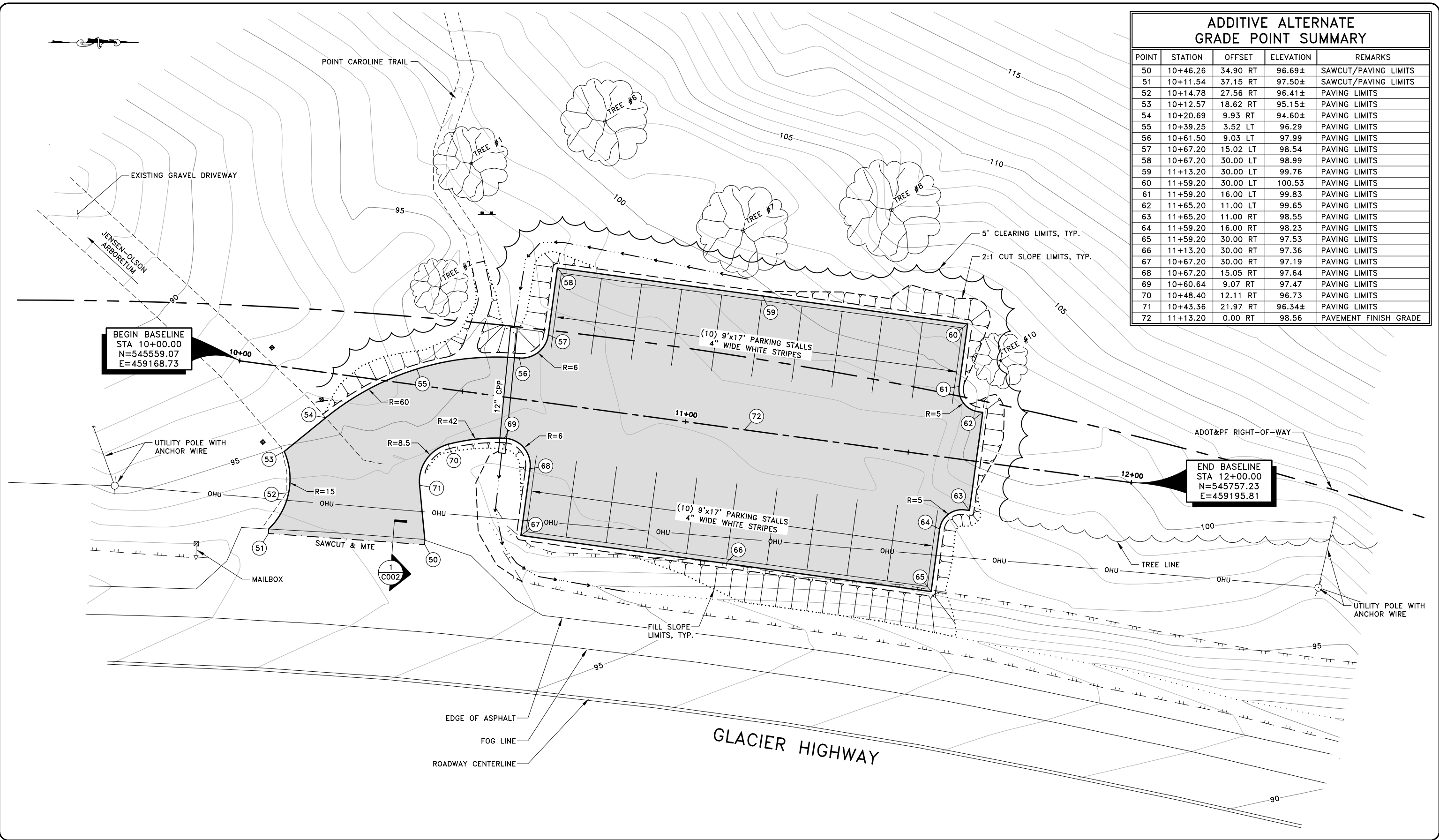
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PDC No. 17203JN

SHEET C100



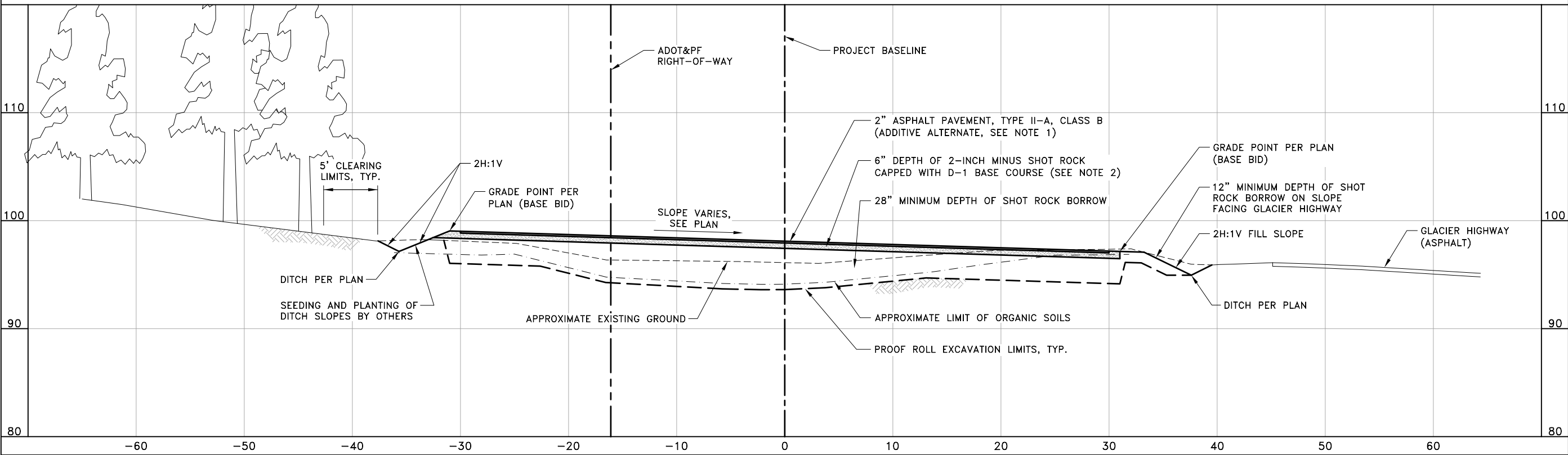
BASE BID GRADE POINT SUMMARY				
POINT	STATION	OFFSET	ELEVATION	REMARKS
1	10+44.19	19.08 RT	96.31±	EDGE OF GRAVEL, MTE
2	10+30.21	18.12 RT	95.62±	EDGE OF GRAVEL, MTE
3	10+19.93	9.27 RT	94.53±	EDGE OF GRAVEL, MTE
4	10+38.80	4.41 LT	96.27	EDGE OF GRAVEL
5	10+61.45	10.03 LT	98.02	EDGE OF GRAVEL
6	10+66.20	15.02 LT	98.52	EDGE OF GRAVEL
7	10+66.13	31.03 LT	99.00	EDGE OF GRAVEL
8	11+13.20	31.00 LT	99.80	EDGE OF GRAVEL
9	11+60.20	31.00 LT	100.60	EDGE OF GRAVEL
10	11+60.20	16.00 LT	99.85	EDGE OF GRAVEL
11	11+66.20	12.00 LT	99.71	EDGE OF GRAVEL
12	11+66.20	12.00 RT	98.51	EDGE OF GRAVEL
13	11+60.20	16.00 RT	98.25	EDGE OF GRAVEL
14	11+60.20	31.00 RT	97.50	EDGE OF GRAVEL
15	11+13.20	31.00 RT	97.32	EDGE OF GRAVEL
16	10+66.20	31.00 RT	97.14	EDGE OF GRAVEL
17	10+66.20	15.05 RT	97.62	EDGE OF GRAVEL
18	10+60.73	10.07 RT	97.44	EDGE OF GRAVEL
19	10+48.79	13.04 RT	96.75	EDGE OF GRAVEL
20	11+13.20	0.00 RT	98.56	GRAVEL FINISH GRADE
21	11+09.50	33.27 LT	99.00	DITCH CENTERLINE
22	10+67.65	35.80 LT	97.04	DITCH CENTERLINE
23	10+62.70	35.12 LT	96.80	DITCH CENTERLINE
24	10+59.92	30.96 LT	96.57	DITCH CENTERLINE
25	10+59.42	15.54 LT	95.58	INVERT OF 12" CPP
26	10+60.51	12.44 RT	95.30	INVERT OF 12" CPP
27	10+60.81	25.16 RT	95.16	DITCH CENTERLINE
28	10+63.52	32.71 RT	95.05	DITCH CENTERLINE
29	10+67.14	36.28 RT	94.99	DITCH CENTERLINE
30	10+71.89	38.49 RT	94.92	DITCH CENTERLINE
31	10+91.68	39.20 RT	94.66	DITCH CENTERLINE, MTE
32	10+49.85	8.32' LT	97.14	CL OF TRAIL
33	10+49.50	28.77' LT	95.75'(±)	CL OF TRAIL, MTE

- NOTES:**
- CLEARING LIMITS SHALL BE STAKED OUT BY THE CONTRACTOR AND APPROVED BY CBJ PRIOR TO ANY TREE REMOVAL. WORK UNDER CLEARING AND GRUBBING ALSO INCLUDES SALVAGING APPROXIMATELY 400 LINEAR FEET OF HEMLOCK AND SPRUCE TREES 12" DIAMETER (±3"), CUT INTO 10' LONG SECTIONS, AND NEATLY STACKED ONSITE AT A LOCATION TO BE DETERMINED BY THE OWNER.
  - TRANSITION POINT CAROLINE TRAIL TO NEW DRIVEWAY USING SHOT ROCK BORROW AND 6" DEPTH OF 2-INCH MINUS SHOT ROCK CAPPED WITH D-1 BASE COURSE. NEW TRAIL TRANSITION SLOPE EQUALS 6.5%(±).

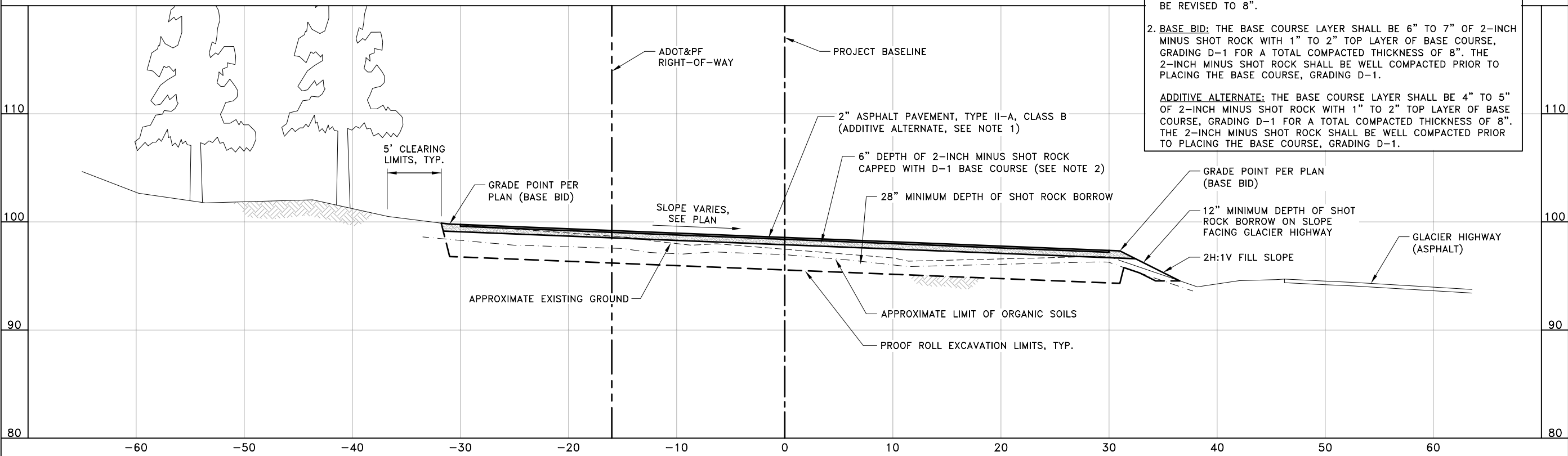


ADDITIVE ALTERNATE GRADE POINT SUMMARY				
POINT	STATION	OFFSET	ELEVATION	REMARKS
50	10+46.26	34.90 RT	96.69±	SAWCUT/PAVING LIMITS
51	10+11.54	37.15 RT	97.50±	SAWCUT/PAVING LIMITS
52	10+14.78	27.56 RT	96.41±	PAVING LIMITS
53	10+12.57	18.62 RT	95.15±	PAVING LIMITS
54	10+20.69	9.93 RT	94.60±	PAVING LIMITS
55	10+39.25	3.52 LT	96.29	PAVING LIMITS
56	10+61.50	9.03 LT	97.99	PAVING LIMITS
57	10+67.20	15.02 LT	98.54	PAVING LIMITS
58	10+67.20	30.00 LT	98.99	PAVING LIMITS
59	11+13.20	30.00 LT	99.76	PAVING LIMITS
60	11+59.20	30.00 LT	100.53	PAVING LIMITS
61	11+59.20	16.00 LT	99.83	PAVING LIMITS
62	11+65.20	11.00 LT	99.65	PAVING LIMITS
63	11+65.20	11.00 RT	98.55	PAVING LIMITS
64	11+59.20	16.00 RT	98.23	PAVING LIMITS
65	11+59.20	30.00 RT	97.53	PAVING LIMITS
66	11+13.20	30.00 RT	97.36	PAVING LIMITS
67	10+67.20	30.00 RT	97.19	PAVING LIMITS
68	10+67.20	15.05 RT	97.64	PAVING LIMITS
69	10+60.64	9.07 RT	97.47	PAVING LIMITS
70	10+48.40	12.11 RT	96.73	PAVING LIMITS
71	10+43.36	21.97 RT	96.34±	PAVING LIMITS
72	11+13.20	0.00 RT	98.56	PAVEMENT FINISH GRADE

STA. 10+70



STA. 11+13



**CROSS SECTION NOTES:**

1. IF THE ADDITIVE ALTERNATE IS NOT AWARDED, THE TOTAL DEPTH OF 2-INCH MINUS SHOT ROCK CAPPED WITH D-1 BASE COURSE SHALL BE REVISED TO 8".
  2. **BASE BID:** THE BASE COURSE LAYER SHALL BE 6" TO 7" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL COMPACTED THICKNESS OF 8". THE 2-INCH MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING THE BASE COURSE, GRADING D-1.
- ADDITIVE ALTERNATE:** THE BASE COURSE LAYER SHALL BE 4" TO 5" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL COMPACTED THICKNESS OF 8". THE 2-INCH MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING THE BASE COURSE, GRADING D-1.

DESIGN KAP  
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CHECK JMP  
APPROVED JMP

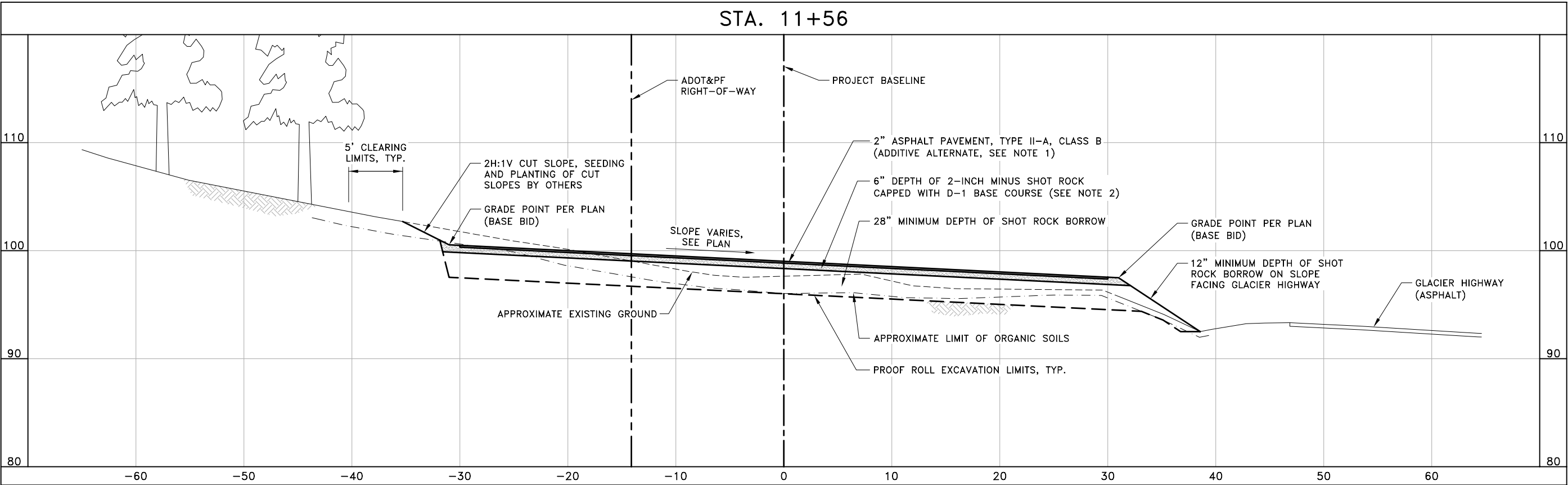
No.	DATE	REVISION



**JENSEN-OLSON**  
**ARBORETUM PARKING LOT**  
**CBJ CONTRACT No. BE18-077**  
CITY & BOROUGH OF JUNEAU, ALASKA

**CROSS SECTIONS**  
**STA. 10+70 & STA. 11+13**  
GRAPHIC SCALE  
0' 5' 10' 20'

DATE: AUGUST 25, 2017  
PDC No. 17203JN  
SHEET **C300**



**CROSS SECTION NOTES:**

1. IF THE ADDITIVE ALTERNATE IS NOT AWARDED, THE TOTAL DEPTH OF 2-INCH MINUS SHOT ROCK CAPPED WITH D-1 BASE COURSE SHALL BE REVISED TO 8".

2. **BASE BID:** THE BASE COURSE LAYER SHALL BE 6" TO 7" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL COMPACTED THICKNESS OF 8". THE 2-INCH MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING THE BASE COURSE, GRADING D-1.

**ADDITIVE ALTERNATE:** THE BASE COURSE LAYER SHALL BE 4" TO 5" OF 2-INCH MINUS SHOT ROCK WITH 1" TO 2" TOP LAYER OF BASE COURSE, GRADING D-1 FOR A TOTAL COMPACTED THICKNESS OF 8". THE 2-INCH MINUS SHOT ROCK SHALL BE WELL COMPACTED PRIOR TO PLACING THE BASE COURSE, GRADING D-1.

DESIGN	KAP
DRAWN	KAP
CHECK	JMP
APPROVED	JMP

No.	DATE	REVISION



**JENSEN-OLSON**  
**ARBORETUM PARKING LOT**  
**CBJ CONTRACT No. BE18-077**

CITY & BOROUGH OF JUNEAU, ALASKA

**CROSS SECTIONS**  
**STA. 11+56**

GRAPHIC SCALE

0' 5' 10' 20'

DATE: AUGUST 25, 2017  
PDC No. 17203JN

SHEET **C301**