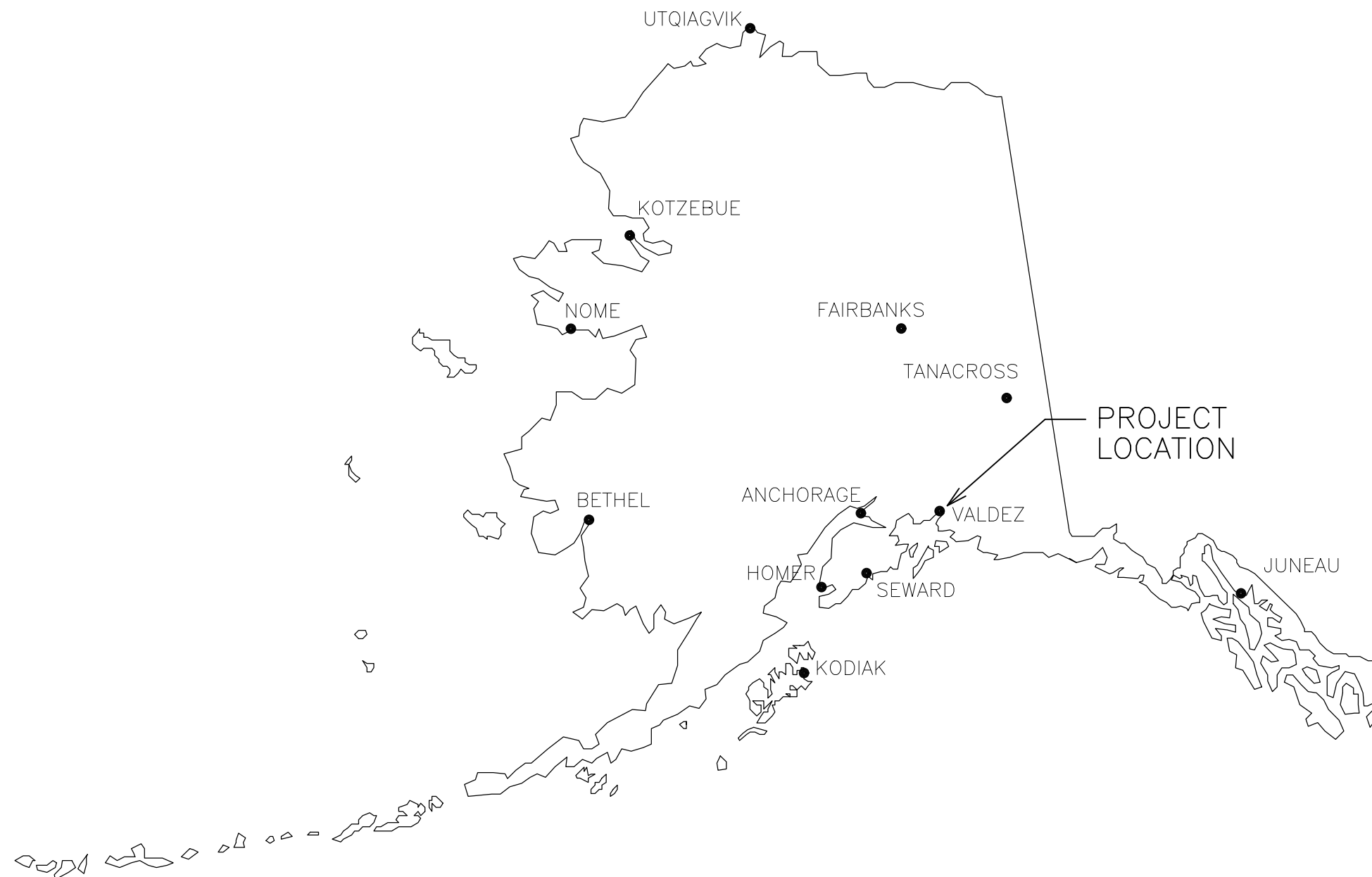


CITY OF VALDEZ, ALASKA

WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER AND SIDEWALK REPLACEMENT

APRIL 2018

PROJECT NO. 17-350-1714

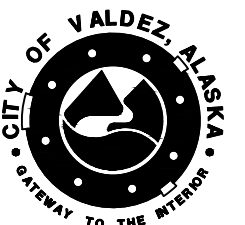


FINAL

PREPARED BY:



3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECL882-AK



GENERAL NOTES

1. CAUTION!! UNDERGROUND UTILITIES EXIST WITHIN THE PROJECT AREA. CONTRACTOR SHALL CALL FOR UTILITY LOCATES PRIOR TO BEGINNING CONSTRUCTION.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE CITY OF VALDEZ STANDARD SPECIFICATIONS (CVSS) AND STANDARD DETAILS FOR STREETS, DRAINAGE, UTILITIES AND PARKS (APRIL 2003, AS AMENDED), AND THE SPECIAL PROVISIONS.
3. PLEASE NOTE, NOT ALL UTILITIES ARE SHOWN ON THESE DRAWINGS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE EXISTING ABOVE GRADE AND BELOW GRADE UTILITIES AND PROTECT THEM DURING CONSTRUCTION. THE LOCATION OF THE EXISTING UTILITIES SHOWN IN THESE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES ENCOUNTERED AND RECORD THEIR LOCATION ON THE CONTRACT RECORD DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONTRACTOR SHALL ADJUST ALIGNMENT OR GRADE OF PROPOSED PIPING AS NECESSARY TO AVOID CONFLICTS WITH EXISTING UTILITIES.
4. THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED ON THE PROJECT SITE.
5. ALL WORK IN CLOSE PROXIMITY TO EXISTING OVERHEAD TELEPHONE AND ELECTRIC UTILITIES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, CODES AND GUIDELINES AND THE CLEARANCE REQUIREMENTS OF THE SERVING UTILITY.
6. LIMITS OF EXCAVATION SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL LIMITS WILL BE DETERMINED BY THE ENGINEER BASED ON FIELD CONDITIONS.
7. ALL WORK SHALL BE PERFORMED WITHIN PUBLIC RIGHT-OF-WAY, PUBLIC USE EASEMENT, SLOPE EASEMENT, DRAINAGE EASEMENT, OR TEMPORARY CONSTRUCTION PERMIT AREA. ALL DISTURBED PROPERTY BEYOND THE SLOPE LIMITS SHALL BE RESTORED TO ORIGINAL CONDITION, UNLESS OTHERWISE NOTED.
8. ALL WORK AND EQUIPMENT REQUIRED FOR REMOVING ANY LITTER OR DEBRIS WITHIN THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT WILL BE MADE.
9. ALL ORGANIC MATERIAL SHALL BE REMOVED FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. NO ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL SHALL BE UTILIZED FOR BACKFILL.
10. CONTRACTOR SHALL PROVIDE A RECORD DRAWING IN ACCORDANCE WITH THE REQUIREMENTS OF CVSS. THE CONTRACTOR SHALL SUBMIT RECORD SURVEY NOTES WITH THE RECORD DRAWINGS.
11. CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITIONS, UNLESS OTHERWISE DIRECTED BY ENGINEER. PAYMENT FOR RESTORING DISTURBED PROPERTY SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
12. UNLESS OTHERWISE NOTED, ALL VALVE BOXES, CLEANOUTS, AND MANHOLES WITHIN THE CONSTRUCTION AREA SHALL BE ADJUSTED IN ACCORDANCE WITH CVSS STANDARD DETAIL 50-5.
13. WATER RESULTING FROM THE CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS REQUIRED PERMITS INCLUDING, BUT NOT LIMITED TO, THE ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION ARE OBTAINED BY THE CONTRACTOR. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM EXCAVATION ONTO ROADWAYS. THE CONTRACTOR SHALL PROVIDE DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. THE CONTRACTOR SHALL PROVIDE COPIES OF PERMITS AND APPROVALS TO THE ENGINEER PRIOR TO BEGINNING DEWATERING.
14. ANY EXISTING SURVEY MONUMENTATION DISTURBED BY CONTRACTOR OPERATIONS SHALL BE REPLACED AT CONTRACTOR'S EXPENSE BY SURVEYOR LICENSED TO PRACTICE IN THE STATE OF ALASKA.
15. CONTRACTOR SHALL APPLY TACK COAT TO THE SAW CUT ASPHALT FACE AND FACE OF THE LIP OF CURB AND GUTTER PRIOR TO PAVING. TACK COAT SHALL BE INCIDENTAL TO THE PROJECT.
16. PAVEMENT CUTS AT THE END OF THE PROJECT AND ON SIDE STREETS SHALL NOT BE PERPENDICULAR TO THE CENTERLINE. THE CUTS SHALL BE MADE I.A.W. CVSS DIVISION 40 SECTION 40.02.
17. IMPROVEMENT LIMITS ARE APPROXIMATE AND MAY REQUIRE ADJUSTMENT IN THE FIELD DURING CONSTRUCTION, AT THE DISCRETION OF THE ENGINEER.



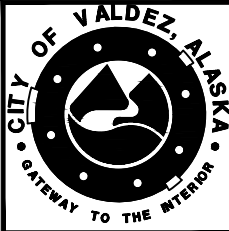
SHEET INDEX		
SHEET NO.	DESCRIPTION	WORK SCHEDULE
GENERAL		
1	COVER SHEET	ALL
2	SHEET INDEX & NOTES	ALL
3	LEGEND & ABBREVIATIONS	ALL
TYPICAL SECTIONS		
4-5	TYPICAL SECTIONS	ALL
ROADWAY SUMMARY TABLES		
6-7	ROADWAY SUMMARY TABLE	A
ROADWAY DESIGN		
8	ROADWAY PLAN & PROFILE – BOP TO STA 18+50	A
9	ROADWAY PLAN & PROFILE – STA 18+50 TO 27+00	A
10	ROADWAY PLAN & PROFILE – STA 27+00 TO 35+50	A
11	ROADWAY PLAN & PROFILE – STA 35+50 TO EOP	A
12	INTERSECTION LAYOUT – COTTONWOOD & WHIRLWAY	A
13	INTERSECTION LAYOUT – S. GLACIER & S. WATERFALL	A
14	INTERSECTION LAYOUT – SNOWTREE, CHISTOCHINA, S. MORaine	A
15	INTERSECTION LAYOUT – VALHALLA & COPPER	A
16	INTERSECTION LAYOUT – PACIFIC & HAZELET	A
17-18	SIGNAGE & STRIPING	A
19	SIGNAGE & STRIPING NOTES, SUMMARY TABLE & DETAIL	A
ROADWAY DETAILS		
20-21	ROADWAY DETAILS	A
ILLUMINATION		
22-23	ILLUMINATION PLAN	B
24	ILLUMINATION SCHEDULE & TABLES	B
25	LOAD CENTER POWER ONE-LINE, PANEL SCHEDULE & DETAILS	B



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REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY



SCALE
HOR. N/A
VER. N/A
DESIGNED BY
RLC
DRAWN BY
KY
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA – COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
SHEET INDEX & NOTES		
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	2
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Legend And Abbreviations.dwg

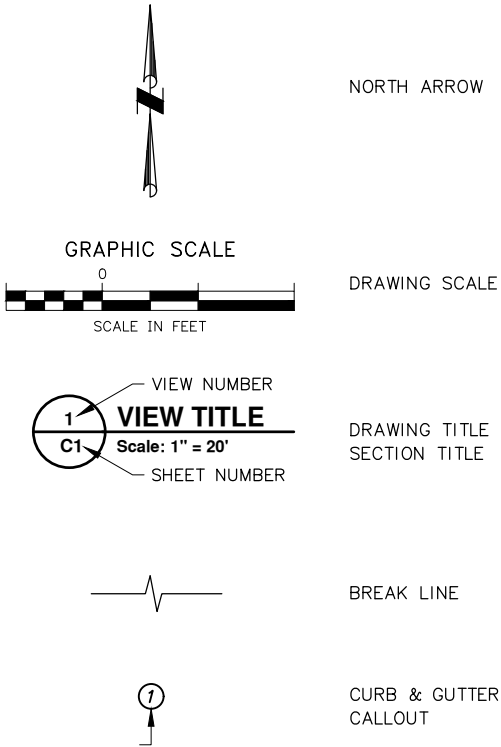
LEGEND – PLAN		
PROPOSED (P)	EXISTING (E)	DESCRIPTION
	----	RIGHT OF WAY
	----	PROPERTY LINE
	----	EASEMENT LINE
----		ROADWAY CENTERLINE
=====	=====	EDGE OF PAVEMENT
=====	=====	CURB AND GUTTER
=====	----	SIDEWALK
=====	=====	EDGE OF GRAVEL
	----	SWALE
➔		DRAINAGE ARROW
10+00		PROJECT BASELINE STATION
	WV	WATER VALVE
	⊗	WATER KEYBOX
	⦿	FIRE HYDRANT
	⊙	SANITARY SEWER MANHOLE
	⊠c.o.	SANITARY SEWER CLEANOUT
	□U.E.	ELECTRIC VAULT
	□FO	FIBER OPTIC VAULT
	□U.C.	UTILITY CABLE PEDESTAL
	□U.T.	UTILITY TELEPHONE PEDESTAL
	⊕	LOAD CENTER
	○	UTILITY POLE
	-x-x-x-x-	FENCE
	←	GUY ANCHOR
	☆	LIGHT POLE
	⊖	SIGN
	~~~~~	TREE OR BRUSH LINE
	—FO—	FIBER OPTICS LINE
	—OHE—	OVERHEAD ELECTRIC LINE
	—E—	UNDERGROUND ELECTRIC LINE
	—T—	UNDERGROUND TELEPHONE LINE
	—G—	UNDERGROUND GAS LINE
	—C—	UNDERGROUND CABLE LINE
	—S—	UNDERGROUND SANITARY SEWER LINE
	—W—	UNDERGROUND WATER LINE
	—SD—	UNDERGROUND STORM DRAIN/SUBDRAIN LINE
■		STORM DRAIN CATCH BASIN
	⊕	STORM DRAIN CATCH BASIN MANHOLE
■		STORM DRAIN CATCH BASIN MANHOLE WITH NEW FRAME
	□	STORM DRAIN FIELD INLET
	⊙	STORM DRAIN MANHOLE
⚠		RADIUS POINT
▬ ▴	▬ ▴	PCC SIDEWALK
▬		PROPOSED ASPHALT

ABBREVIATIONS

AC = ASPHALT CONCRETE  
ADOT&PF = ALASKA DEPARTMENT OF  
TRANSPORTATION & PUBLIC FACILITIES  
APX./APPROX = APPROXIMATE  
BM = BENCH MARK  
BOC = BACK OF CURB  
BOP = BOTTOM OF PIPE  
BOS = BACK OF SIDEWALK  
CB = CATCH BASIN  
C&G = CURB AND GUTTER  
CL C = CENTERLINE  
DIA = DIAMETER  
DW = DETECTABLE WARNING  
E = EAST  
ELEC = ELECTRICAL  
ELEV. = ELEVATION  
EOG = EDGE OF GRAVEL  
EOP = EDGE OF PAVEMENT  
ESMT = EASEMENT  
FG = FINISHED GRADE (ELEV.)  
FT = FEET  
F&I = FURNISH & INSTALL  
GB = GRADE BREAK  
HP = HIGH POINT  
HWY = HIGHWAY  
I.A.W = IN ACCORDANCE WITH  
LF = LINEAR FEET  
LOC = LIP OF CURB  
LT = LEFT  
MAX = MAXIMUM  
MFR = MANUFACTURER  
MH = MANHOLE  
MIN = MINIMUM  
N = NORTH  
NO. = NUMBER  
N.T.S. = NOT TO SCALE  
N/A = NOT APPLICABLE

O.C. = ON CENTER  
OCEW – ON CENTER, EACH WAY  
OG = ORIGINAL GROUND (ELEV.)  
PC = POINT OF CURVATURE  
PCC = PORTLAND CEMENT CONCRETE  
PI = POINT OF INTERSECTION  
PL = PROPERTY LINE  
PP = POWER POLE  
PT = POINT OF TANGENCY  
R = RADIUS (LENGTH)  
RC = REINFORCED CONCRETE  
RP = RADIUS POINT  
R&R = REMOVE AND REPLACE  
RT = RIGHT  
R/W OR ROW = RIGHT-OF-WAY  
S = SEWER, SOUTH  
SD = STORM DRAIN  
SF = SQUARE FEET  
SI = STREET INTERSECTION  
SS = SANITARY SEWER  
ST = STATION  
STA. = STATION  
STD = STANDARD  
T = TANGENT (LENGTH)  
TBC = TOP BACK OF CURB  
TBM = TEMPORARY BENCHMARK  
TELE = TELEPHONE  
TV = TELEVISION  
TYP = TYPICAL  
U/G = UNDER GROUND  
VB = VALVE BOX  
W = WATER, WEST

REFERENCE



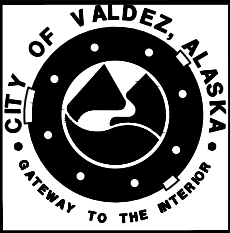
CALL BEFORE YOU DIG!!!	
Alaska Digline, Inc.	
Statewide . . . . .	811
Alaska Railroad . . . . .	265–2520
Military Fuel Lines . . . . .	552–3760
State Storm Drains . . . . .	333–2411



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REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY



SCALE	HOR. N/A VER. N/A
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17–350–1714

CITY OF VALDEZ, ALASKA  
WEST KLUTINA – COTTONWOOD TO HAZELET REPAVE, GUTTER &  
SIDEWALK REPLACEMENT  
LEGEND & ABBREVIATIONS

STATUS: FINAL

DATE: 04/19/2018

PROJECT NO.  
20308.00

CITY GRID

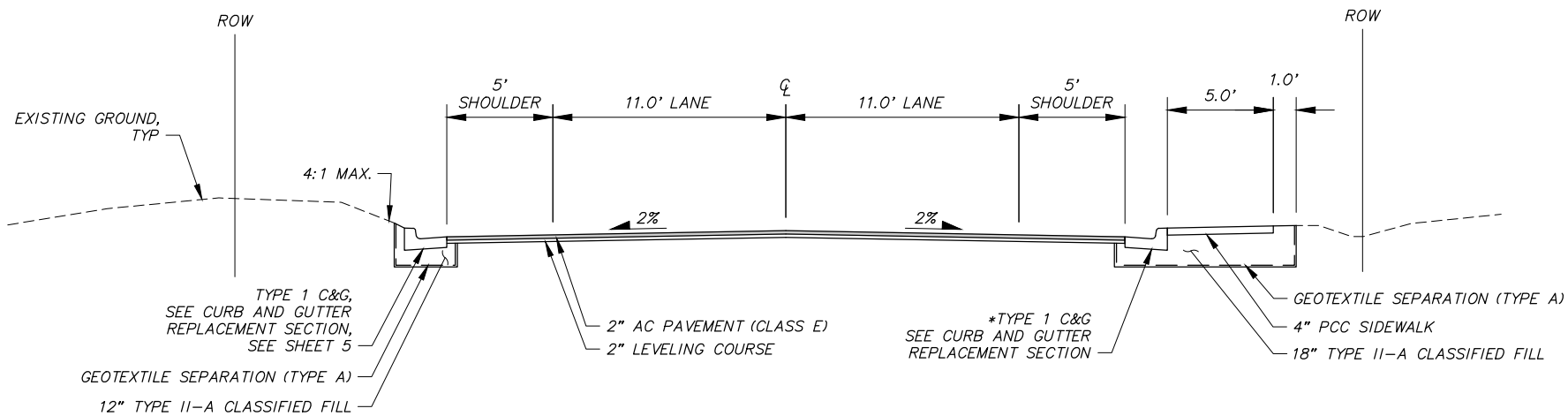
WATER GRID

SEWER GRID

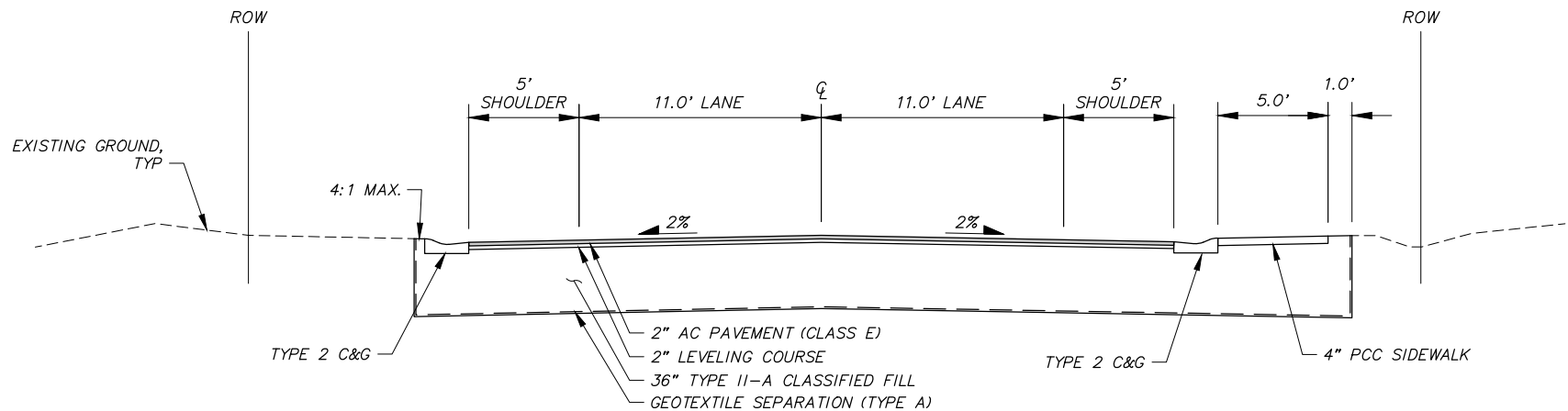
SHEET  
OF

3  
25

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**TYPICAL ROAD STRUCTURAL SECTION**  
STA BOP TO STA 25+50  
SCALE: NOT TO SCALE  
*BEGIN TYPE 2 C&G AT STA 24+79.10, RT



**TYPICAL ROAD STRUCTURAL SECTION - DIGOUT AREA**  
STA 25+50 TO 27+50  
SCALE: NOT TO SCALE

**SHEET NOTES:**

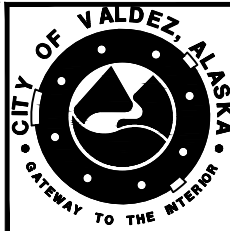
1. ROAD CROSS SLOPE SHALL NOT EXCEED 3% UNLESS OTHERWISE NOTED.
2. LIMITS OF CURB AND ASPHALT REMOVAL SHALL BE APPROVED BY THE ENGINEER IN THE FIELD.
3. DRIVEWAYS ADJACENT TO CURB REMOVAL AND REPLACEMENT SHALL BE RECONSTRUCTED A MINIMUM 2' FROM TBC UNLESS OTHERWISE NOTED. SEE TABLE SEE DRIVEWAY LAYOUT TABLE ON SHEET 6. NEW DRIVEWAY SURFACE SHALL PROVIDE A SMOOTH TRANSITION FROM THE ROADWAY AND SHALL CONVEY DRAINAGE SUCH THAT NO PONDING OCCURS IN FRONT OF THE DRIVEWAY. AC DRIVEWAY RESURFACING IS PAID AS CVSS 20.19 "REMOVE EXISTING PAVEMENT" AND CVSS 40.02 "AC PAVEMENT (CLASS E)". PCC DRIVEWAY RESURFACING IS PAID AS CVSS 20.17 "REMOVE EXISTING SIDEWALK" AND CVSS 30.03 "P.C.C. SIDEWALK 6" THICK."
4. PROVIDE A CONTINUOUS 12-FOOT TRANSITION BETWEEN DIGOUT AREA AND NON-DIGOUT AREAS.



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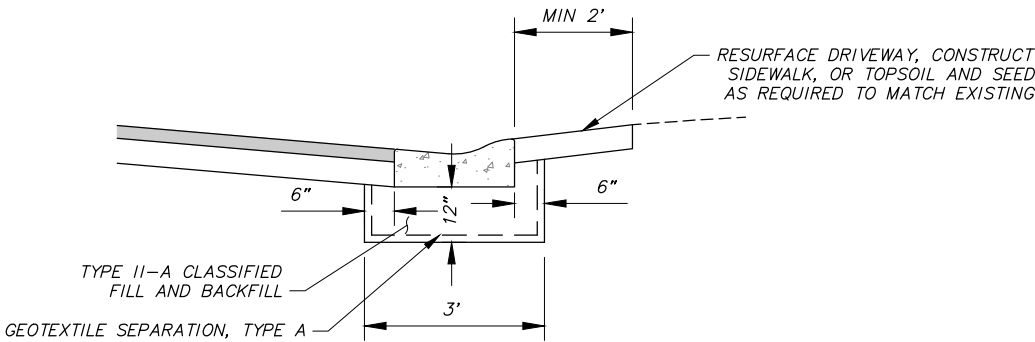
SCALE	HOR. N/A VER. N/A
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT TYPICAL SECTIONS	SCHEDULE A
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	4
OF	25

SHEET NOTES:

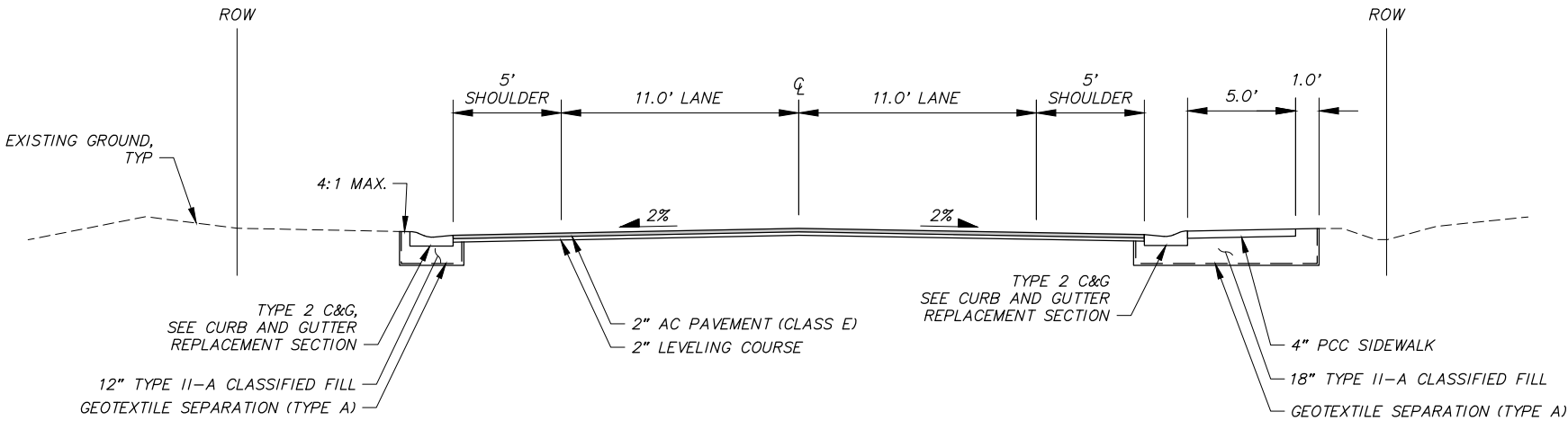
1. ROAD CROSS SLOPE SHALL NOT EXCEED 3% UNLESS OTHERWISE NOTED.
2. LIMITS OF CURB AND ASPHALT REMOVAL SHALL BE APPROVED BY THE ENGINEER IN THE FIELD.
3. DRIVEWAYS ADJACENT TO CURB REMOVAL AND REPLACEMENT SHALL BE RECONSTRUCTED A MINIMUM 2' FROM TBC UNLESS OTHERWISE NOTED. SEE TABLE SEE DRIVEWAY LAYOUT TABLE ON SHEET 6. NEW DRIVEWAY SURFACE SHALL PROVIDE A SMOOTH TRANSITION FROM THE ROADWAY AND SHALL CONVEY DRAINAGE SUCH THAT NO PONDING OCCURS IN FRONT OF THE DRIVEWAY. AC DRIVEWAY RESURFACING IS PAID AS CVSS 20.19 "REMOVE EXISTING PAVEMENT" AND CVSS 40.02 "AC PAVEMENT (CLASS E)". PCC DRIVEWAY RESURFACING IS PAID AS CVSS 20.17 "REMOVE EXISTING SIDEWALK" AND CVSS 30.03 "P.C.C. SIDEWALK 6" THICK."
4. EXTENT OF BERM REMOVAL MAY BE ADJUSTED IN FIELD. CLEAR EXISITING VEGETATION PRIOR TO REMOVAL OF BERM.



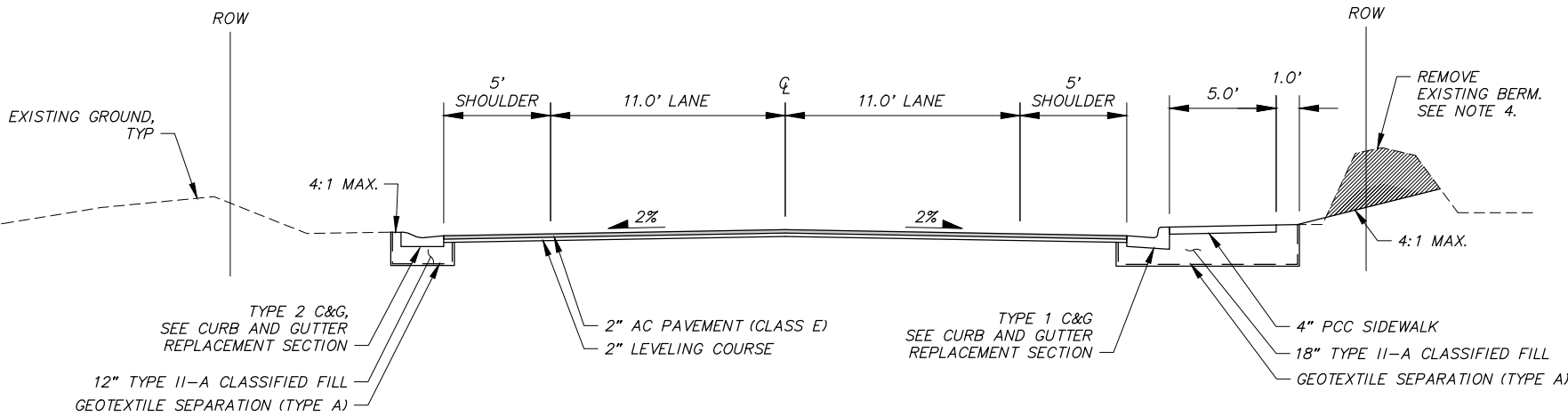
NOTE:

1. RESURFACE DRIVEWAYS SUCH THAT NO PONDING OCCURS IN FRONT OF THE DRIVEWAY. SAWCUT DRIVEWAYS BEFORE REMOVING EXISTING SURFACE. A.C. DRIVEWAY RESURFACING IS PAID AS 20.19 "REMOVE EXISTING PAVEMENT" AND 40.02 "AC PAVEMENT (CLASS E).

3  
5  
TYPICAL CURB AND GUTTER REPLACEMENT SECTION  
SCALE: NOT TO SCALE



1  
5  
TYPICAL ROAD STRUCTURAL SECTION  
STA 27+50 TO STA 35+00  
SCALE: NOT TO SCALE



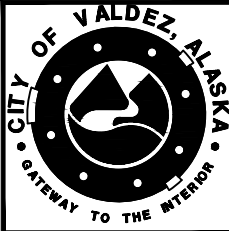
2  
5  
TYPICAL ROAD STRUCTURAL SECTION  
STA 35+00 TO EOP  
SCALE: NOT TO SCALE



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REVISION			
REV	DATE	DESCRIPTION	BY



SCALE	HOR. N/A VER. N/A
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA – COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
TYPICAL SECTIONS		
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	5
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Summary Tables.dwg

DRIVEWAY LAYOUT											
BEGIN DRIVEWAY			END DRIVEWAY								
STATION	OFFSET (FT)	TBC ELEV (FT)	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE #	WIDTH			DRIVEWAY SURFACE	COMMENTS
								LENGTH (FT)	SLOPE (%)		
11+02.00	18.00 LT	53.89	11+50.00	18.00 LT	54.09	1A	48.00	10.00	4.00%	ASPHALT/GRAVEL	
13+35.00	18.00 LT	53.78	14+00.00	18.00 LT	53.56	1A	65.00	10.00	6.00%	CONCRETE/GRAVEL	
16+51.00	18.00 LT	53.88	16+80.00	18.00 LT	54.00	1A	31.00	25.00	5.10%	ASPHALT	
18+50.00	18.00 LT	54.25	18+76.00	18.00 LT	54.15	1A	26.00	4.00	5.00%	ASPHALT	
19+95.00	18.00 LT	53.66	20+15.00	18.21 LT	53.58	1A	20.00	10.00	6.00%	CONCRETE	
26+82.00	18.00 LT	52.80	27+05.00	18.00 LT	52.34	2	23.00	5.00	—	CONCRETE	MATCH EXISTING SLOPE
26+85.00	18.00 RT	52.79	27+19.00	18.00 RT	52.64	2	34.00	2.00	—	GRAVEL	MATCH EXISTING SLOPE
27+85.51	18.00 LT	51.90	28+19.66	18.00 LT	51.42	2	34.15	5.00	2.00%	ASPHALT	
27+83.02	18.00 RT	51.94	28+05.84	18.00 RT	51.64	2	22.82	4.00	1.00%	ASPHALT	
28+64.72	18.00 RT	50.82	28+88.27	18.00 RT	50.50	2	23.55	2.00	1.00%	ASPHALT	
28+83.52	18.00 LT	50.56	29+08.09	18.00 LT	50.23	2	24.57	2.00	4.50%	ASPHALT	
29+37.74	18.00 RT	49.81	29+61.15	18.00 RT	49.51	2	23.41	2.00	3.00%	ASPHALT	
29+70.67	18.00 LT	49.38	29+95.15	18.00 LT	49.05	2	24.48	2.00	1.50%	ASPHALT	
30+09.78	18.00 RT	48.86	30+54.42	18.00 RT	48.25	2	44.64	10.00	2.20%	ASPHALT	
30+52.60	18.00 LT	48.28	30+75.05	18.00 LT	47.98	2	22.45	6.00	4.50%	ASPHALT	
31+26.51	18.00 RT	47.21	31+37.96	18.00 RT	47.32	2	11.45	5.00	5.70%	ASPHALT	
31+36.38	18.00 LT	47.15	31+59.88	18.00 LT	46.83	2	23.5	5.00	5.00%	ASPHALT	
31+83.87	18.00 RT	46.51	32+15.26	18.00 RT	46.08	2	31.39	5.00	4.40%	ASPHALT	
32+17.89	18.00 LT	46.04	32+43.44	18.00 LT	45.70	2	25.55	10.00	3.50%	ASPHALT	
32+70.04	18.00 RT	45.34	32+90.40	18.00 RT	45.07	2	20.36	7.00	5.40%	ASPHALT	
33+44.68	18.00 RT	44.31	33+66.15	18.00 RT	44.20	2	21.47	15.00	0.50%	ASPHALT	
35+19.12	18.00 LT	43.43	35+33.65	18.00 LT	43.35	2	14.53	5.00	1.00%	ASPHALT	
35+38.79	18.00 LT	43.32	35+79.09	18.00 LT	43.09	2	40.30	2.00	10.00%	ASPHALT	
36+43.17	18.00 LT	42.79	36+64.76	18.00 LT	42.67	2	21.59	6.00	17.00%	CONCRETE	
37+35.64	18.00 LT	42.22	37+56.88	18.00 LT	42.11	2	21.24	2.00	7.90%	CONCRETE	
37+63.50	18.00 LT	42.07	37+84.20	18.00 LT	41.95	2	20.70	2.00	3.00%	CONCRETE	
38+31.78	18.00 LT	41.69	38+53.06	18.00 LT	41.57	2	21.28	2.00	10.00%	CONCRETE	

* PROVIDE CONTINUOUS TRANSITION FROM TYPE 1 TO TYPE 1A C&G OVER 6'.

20.17 REMOVE EXISTING SIDEWALK						
START STA.	OFFSET	END STA.	OFFSET	AREA (SF)	AREA (SY)	REMARKS
BOP	—	EOP	—	671	75	CONCRETE DRIVEWAYS
10+80.22	22.3 RT	12+45.96	22.0 RT	664	74	SIDEWALK ON SOUTH SIDE OF KLUTINA
13+11.44	22.0 RT	15+11.34	36.1 RT	800	89	SIDEWALK ON SOUTH SIDE OF KLUTINA
15+65.59	22.0 RT	20+07.70	20.0 RT	1768	196	SIDEWALK ON SOUTH SIDE OF KLUTINA
21+15.66	22.0 RT	22+23.32	23.7 RT	428	48	SIDEWALK ON SOUTH SIDE OF KLUTINA
22+70.80	22.0 RT	24+31.28	22.0 RT	640	71	SIDEWALK ON SOUTH SIDE OF KLUTINA
24+73.95	22.0 RT	39+07.00	46.0 RT	5704	634	SIDEWALK ON SOUTH SIDE OF KLUTINA

20.19 REMOVE EXISTING PAVEMENT				
START STA.	END STA.	AREA (SF)	AREA (SY)	REMARKS
BOP	39+08.98	107507	11945	KLUTINA STREET
BOP	EOP	3599	400	ASPHALT DRIVEWAYS

20.18 REMOVE EXISTING CURB & GUTTER					
START STA.	OFFSET	END STA.	OFFSET	LENGTH (LF)	REMARKS
10+47.27	39.6 LT	12+61.23	47.6 LT	237	COTTONWOOD TO WHIRLWAY
10+60.83	34.0 RT	12+60.67	48.8 RT	223	COTTONWOOD TO SCHOOL DRIVEWAY
12+30.68	18.0 RT	13+27.51	18.0 RT	100	VALLEY GUTTER ON SCHOOL DRIVEWAY
12+97.37	48.1 LT	15+21.38	47.8 LT	258	WHIRLWAY TO SOUTH GLACIER
12+97.52	47.3 RT	15+21.35	45.5 RT	255	SCHOOL DRIVEWAY TO SCHOOL DRIVEWAY
14+91.46	18.0 RT	15+88.80	18.0 RT	100	VALLEY GUTTER ON SCHOOL DRIVEWAY
15+57.29	48.0 LT	17+81.52	48.0 LT	258	SOUTH GLACIER TO SOUTH WATERFALL
15+58.91	50.5 RT	20+07.72	18.0 RT	469	KLUTINA TO CLARK
18+17.45	47.8 LT	20+41.40	47.8 LT	258	SOUTH WATERFALL TO SOUTH SNOWTREE
20+77.24	48.0 LT	23+01.40	48.0 LT	258	SOUTH SNOWTREE TO SOUTH MORaine
21+15.66	18.0 RT	22+36.40	48.0 RT	138	CLARK TO CHISTOCHINA
23+37.10	48.0 LT	25+61.18	48.0 LT	258	SOUTH MORaine TO COPPER
22+06.40	18.0 RT	22+92.40	18.0 RT	86	VALLEY GUTTER ON CHISTOCHINA
22+62.40	48.0 RT	24+39.67	47.9 RT	211	CHISTOCHINA TO VALHALLA
24+09.67	18.0 RT	24+95.64	18.0 RT	107	VALLEY GUTTER ON VALHALLA
24+65.64	47.9 RT	39+06.96	50.6 RT	1485	VALHALLA TO HAZELET
25+97.36	48.5 LT	33+07.47	38.0 LT	736	COPPER TO PACIFIC
33+44.40	37.9 LT	39+06.99	46.0 LT	590	PACIFIC TO HAZELET

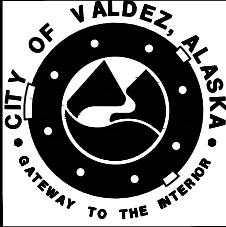
55.06 REMOVE AND REPLACE CATCH BASIN INLET FRAME			
LOCATION			REMARKS
STATION	OFFSET	ELEVATION	
12+45.32	19.8 LT	54.30	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
13+13.69	19.9 LT	54.16	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
15+76.14	19.4 LT	53.62	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
17+65.43	19.6 LT	54.28	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
18+33.49	19.9 LT	54.32	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
20+27.83	20.5 LT	53.80	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
20+91.36	21.0 LT	53.70	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
22+87.35	20.9 LT	54.17	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
23+49.60	22.5 LT	54.18	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
25+48.64	21.8 LT	52.84	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME
38+71.51	18.0 RT	41.54	REPLACE WITH HIGH CAPACITY TYPE 1 CATCH BASIN FRAME



3940 ARCTIC BLVD, SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
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REVISION			
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REV	DATE	DESCRIPTION	BY



SCALE
HOR. N/A
VER. N/A
DESIGNED BY RLC
DRAWN BY KY
CHECKED BY PB
APPROVED BY PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA – COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
ROADWAY SUMMARY TABLE		
STATUS: FINAL		DATE: 04/19/2018

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	6
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00_Summary Tables.dwg

60.04 FURNISH AND INSTALL FIRE HYDRANT (SINGLE PUMPER)		
LOCATION		REMARKS
STATION	OFFSET (FT)	
15+11.00	66.5 RT	INSTALL COMPLETE FIRE HYDRANT ASSEMBLY
22+73.94	35.1 RT	
28+17.81	27.0 RT	
30+56.60	27.0 RT	
32+97.01	27.0 RT	
36+97.90	28.5 LT	

70.03 ADJUST MANHOLE RING		
LOCATION		REMARKS
STATION	OFFSET	
10+51.60	29.6 LT	SEWER MANHOLE
10+61.12	9.5 LT	STORM DRAIN MANHOLE
12+79.70	8.9 LT	STORM DRAIN MANHOLE
15+39.28	8.0 LT	STORM DRAIN MANHOLE
15+15.53	17.4 RT	STORM DRAIN INLET
16+69.40	29.1 LT	SEWER MANHOLE
17+80.86	5.2 LT	STORM DRAIN MANHOLE
20+59.54	7.1 LT	REPLACE FIELD INLET LID
23+19.69	8.1 LT	STORM DRAIN MANHOLE
25+62.18	7.4 LT	STORM DRAIN MANHOLE
33+09.64	24.0 LT	SEWER MANHOLE
33+51.02	13.4 LT	STORM DRAIN MANHOLE

70.04 ADJUST CATCH BASIN TO FINISH GRADE		
LOCATION		REMARKS
STATION	OFFSET	
26+09.40	23.5 LT	
27+37.10	16.7 LT	
27+37.16	17.5 RT	
32+98.50	18.0 LT	
33+59.30	18.0 LT	
38+71.26	17.0 LT	REPLACE EXISTING GRADE RINGS

60.10 RESET VALVE BOX SECTIONS BELOW FINISHED GRADE		
LOCATION		REMARKS
STATION	OFFSET (FT)	
12+08.22	16.3 RT	
12+95.44	13.0 RT	
15+18.53	24.1 RT	
15+49.93	19.0 RT	
22+73.94	35.1 RT	FIRE HYDRANT VALVE
23+36.02	18.5 RT	
25+99.54	8.5 RT	
27+43.95	15.0 RT	
28+17.81	29.8 RT	FIRE HYDRANT VALVE
30+56.60	21.0 RT	FIRE HYDRANT VALVE
32+97.01	21.0 RT	FIRE HYDRANT VALVE
33+51.25	19.5 RT	

70.07 ADJUST MAINLINE VALVE BOX TO FINISH GRADE		
LOCATION		REMARKS
STATION	OFFSET	
10+54.63	40.59 LT	FIRE HYDRANT VALVE, NOT FOUND
12+95.44	12.97 RT	
15+18.53	24.07 RT	
15+49.93	18.99 RT	
18+08.24	20.00 RT	VALVE NOT FOUND
20+79.22	25.75 RT	
23+36.02	18.50 RT	
25+99.54	8.54 RT	
27+43.95	14.99 RT	
28+17.85	24.50 RT	FIRE HYDRANT VALVE, NOT FOUND
30+56.59	24.50 RT	FIRE HYDRANT VALVE, NOT FOUND
33+51.25	19.47 RT	
38+99.20	24.70 LT	

20.02 CLEARING AND GRUBBING				
START STA.	END STA.	AREA (SF)	AREA (AC)	REMARKS
35+30.00	38+50.00	4800	0.11	BERM

60.14 REMOVE AND SALVAGE EXISTING FIRE HYDRANT		
LOCATION		REMARKS
STATION	OFFSET (FT)	
15+18.33	66.9 RT	ABANDON EXISTING VALVE
22+73.72	27.4 RT	
28+17.81	29.8 RT	
30+56.59	30.0 RT	
32+97.01	30.0 RT	
36+97.90	28.5 LT	

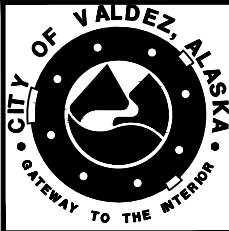
70.14 REMOVE EXISTING SIGNS		
EXISTING LOCATION		REMARKS
STATION	OFFSET	
10+60.63	38.5' LT	STREET NAME SIGNS
11+10.00	25.0' RT	SCHOOL WARNING / AHEAD
12+50.00	34.0' LT	STOP SIGN
15+08.00	37.0' LT	STOP SIGN
15+60.00	35.0' RT	STOP SIGN
17+71.00	30.5' LT	STOP SIGN
20+35.00	38.0' LT	STOP SIGN
22+68.00	34.0' RT	STOP SIGN
22+95.00	40.0' LT	STOP SIGN
23+93.00	26.0' RT	EVACUATION ROUTE
24+74.00	31.2' RT	STOP SIGN
25+56.40	39.6' LT	STOP SIGN
27+37.00	26.5' LT	EVACUATION ROUTE
29+44.00	21.5' LT	SCHOOL FLASHER
31+28.00	21.5' LT	SCHOOL FLASHER
33+01.00	30.0' LT	STOP SIGN
37+95.00	20.0' LT	SPEED LIMIT – 20 MPH
38+78.50	24.5' RT	STOP SIGN



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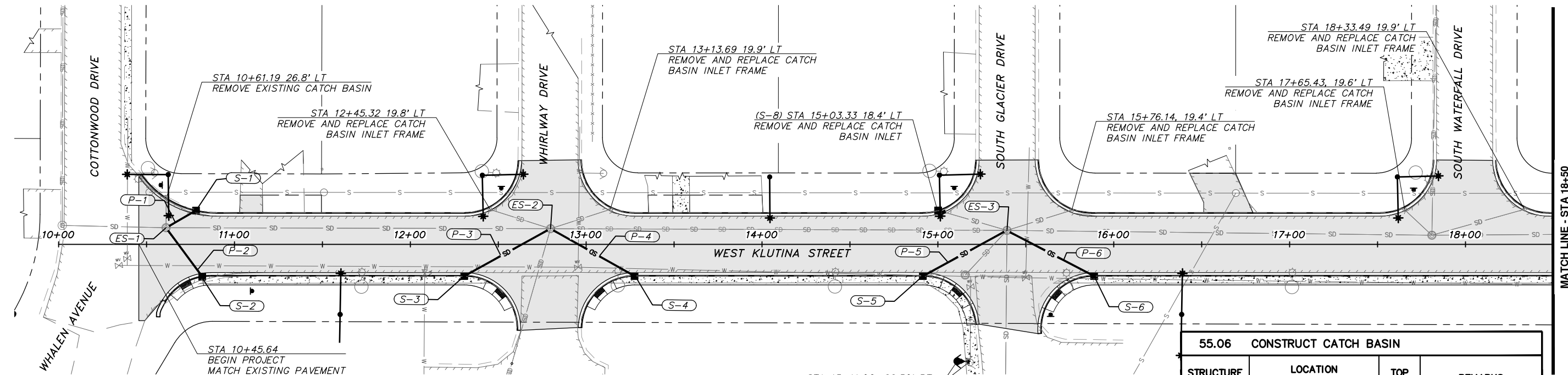


SCALE HOR. N/A VER. N/A
DESIGNED BY RLC
DRAWN BY KY
CHECKED BY PB
APPROVED BY PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA WEST KLUTINA – COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT ROADWAY SUMMARY TABLE	SCHEDULE A
STATUS: FINAL		DATE: 04/19/2018

PROJECT NO. 20308.00
CITY GRID
WATER GRID
SEWER GRID
SHEET 7
OF 25

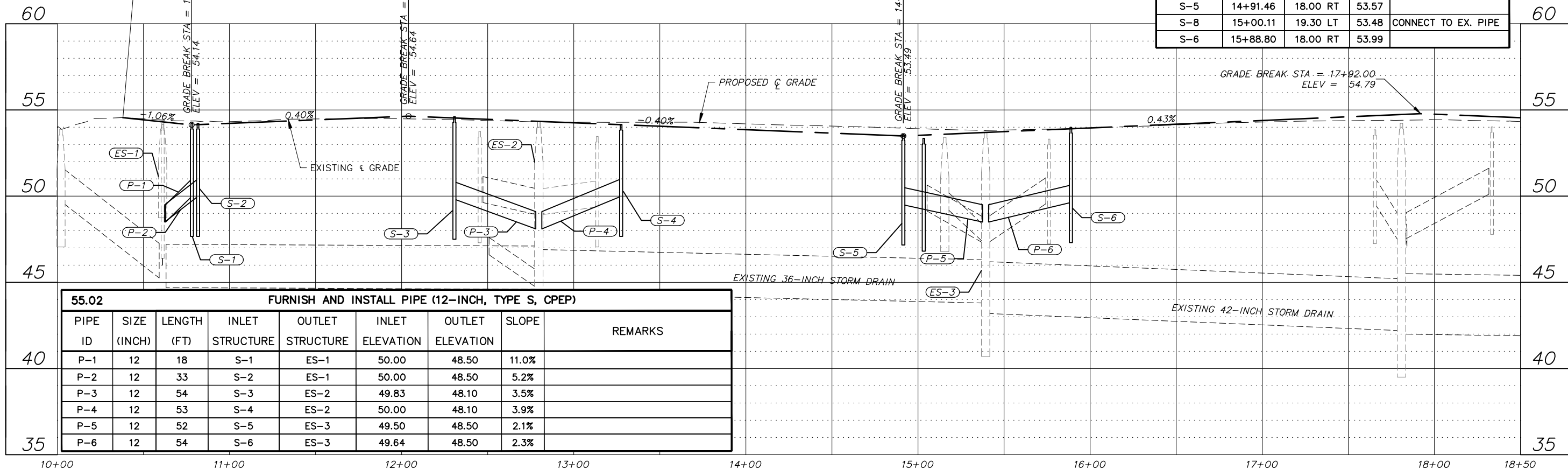
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STA 10+45.64  
BEGIN PROJECT  
MATCH EXISTING PAVEMENT  
ELEV: 54.5±

STA 15+11.00, 66.50' RT  
REMOVE AND SALVAGE EXISTING FIRE  
HYDRANT  
F&I SINGLE PUMPER FIRE HYDRANT  
ASSEMBLY. INSTALL THRUST BLOCK

55.06 CONSTRUCT CATCH BASIN				
STRUCTURE ID	LOCATION		TOP ELEV.	REMARKS
	STATION	OFFSET (FT)		
S-1	10+78.15	19.25 LT	54.19	
S-2	10+81.70	18.39 RT	54.22	
S-3	12+30.68	18.00 RT	54.61	
S-4	13+27.51	18.00 RT	54.23	
S-5	14+91.46	18.00 RT	53.57	
S-8	15+00.11	19.30 LT	53.48	CONNECT TO EX. PIPE
S-6	15+88.80	18.00 RT	53.99	



55.02 FURNISH AND INSTALL PIPE (12-INCH, TYPE S, CPEP)								
PIPE ID	SIZE (INCH)	LENGTH (FT)	INLET STRUCTURE	OUTLET STRUCTURE	INLET ELEVATION	OUTLET ELEVATION	SLOPE	REMARKS
P-1	12	18	S-1	ES-1	50.00	48.50	11.0%	
P-2	12	33	S-2	ES-1	50.00	48.50	5.2%	
P-3	12	54	S-3	ES-2	49.83	48.10	3.5%	
P-4	12	53	S-4	ES-2	50.00	48.10	3.9%	
P-5	12	52	S-5	ES-3	49.50	48.50	2.1%	
P-6	12	54	S-6	ES-3	49.64	48.50	2.3%	



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GRAPHIC SCALE

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REVISION			
REV	DATE	DESCRIPTION	BY



SCALE
HOR. 1" = 30'
VER. 1" = 3'
DESIGNED BY
RLC
DRAWN BY
KY
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714

CITY OF VALDEZ, ALASKA  
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER &  
SIDEWALK REPLACEMENT  
ROADWAY PLAN & PROFILE

BOP TO STA 18+50

STATUS: FINAL

DATE: 04/19/2018

SCHEDULE A

PROJECT NO.  
20308.00

CITY GRID

WATER GRID

SEWER GRID

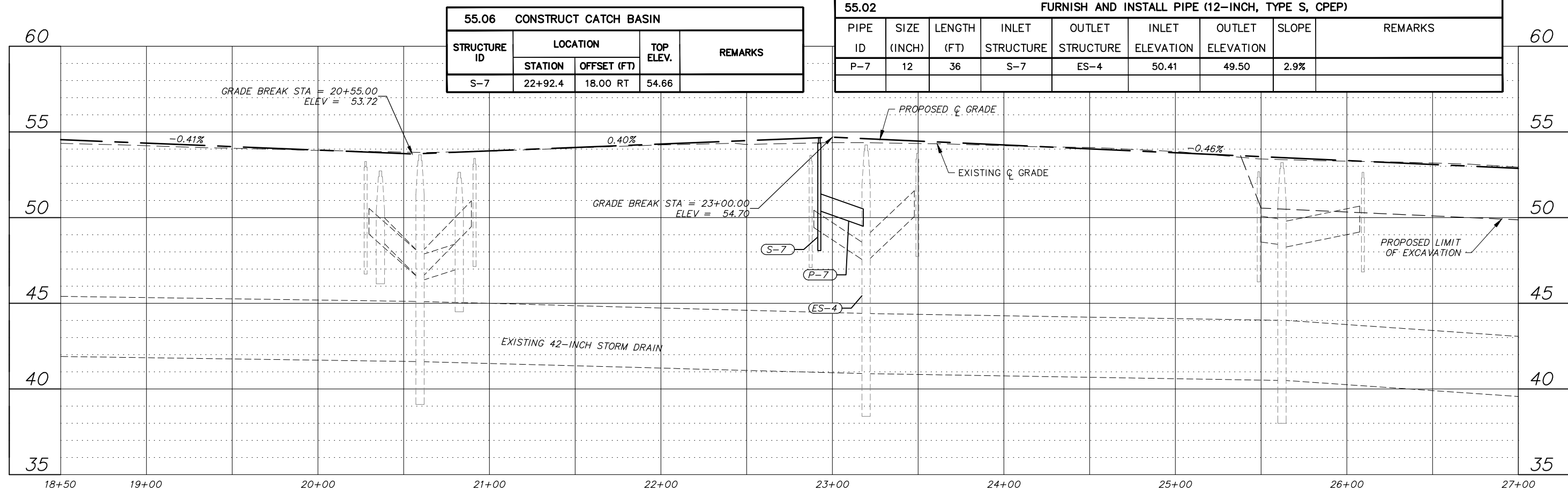
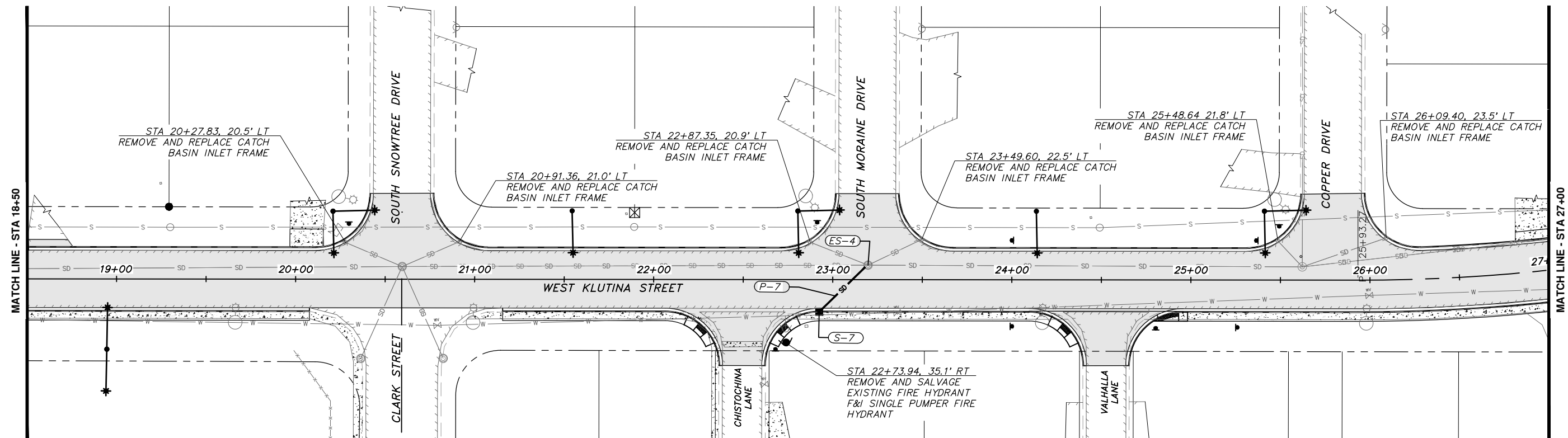
SHEET

8

OF

25

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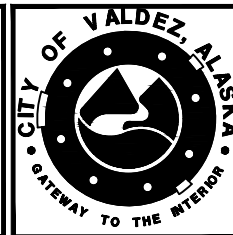
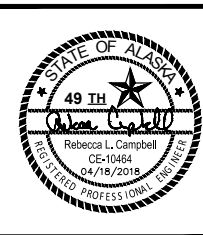


55.06 CONSTRUCT CATCH BASIN				
STRUCTURE ID	LOCATION		TOP ELEV.	REMARKS
	STATION	OFFSET (FT)		
S-7	22+92.4	18.00 RT	54.66	

55.02 FURNISH AND INSTALL PIPE (12-INCH, TYPE S, CPEP)								
PIPE ID	SIZE (INCH)	LENGTH (FT)	INLET STRUCTURE	OUTLET STRUCTURE	INLET ELEVATION	OUTLET ELEVATION	SLOPE	REMARKS
P-7	12	36	S-7	ES-4	50.41	49.50	2.9%	



REVISION				REVISION			
REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY

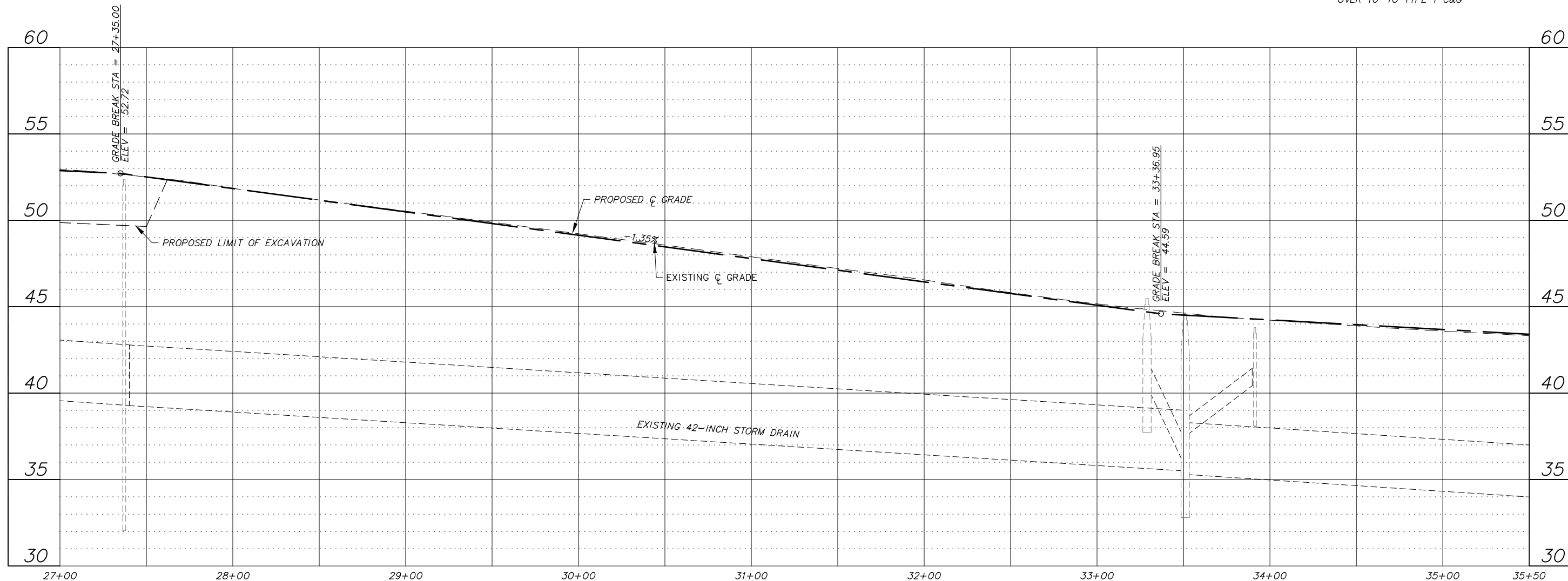
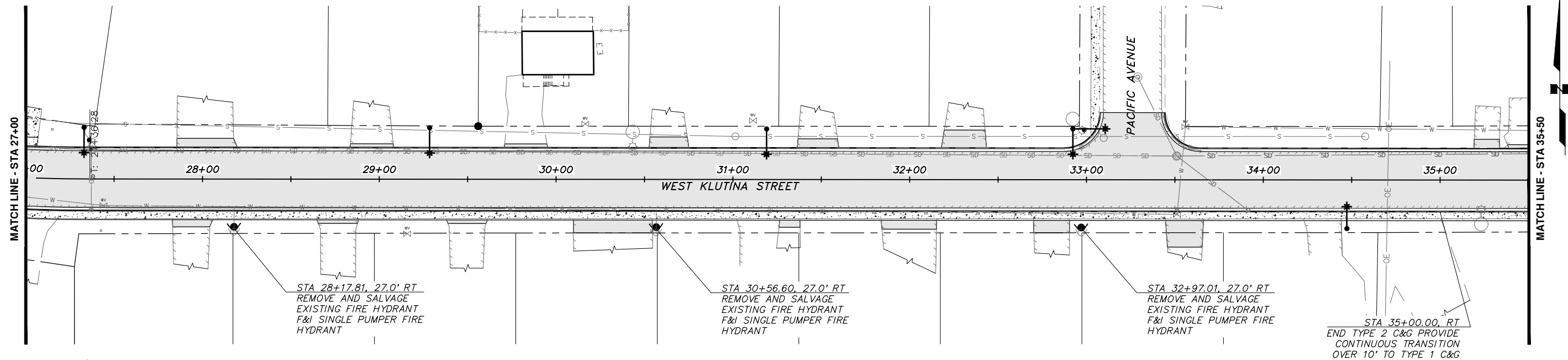


SCALE	HOR. 1" = 30'
	VER. 1" = 3'
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
ROADWAY PLAN & PROFILE		
STA 18+50 TO STA 27+00		
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	9
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Roadway Plan & Profile.dwg



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SCALE
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PROJECT NO: 17-350-1714

CITY OF VALDEZ, ALASKA  
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER &  
SIDEWALK REPLACEMENT  
ROADWAY PLAN & PROFILE

STA 27+00 TO STA 35+50

STATUS: FINAL

DATE: 04/19/2018

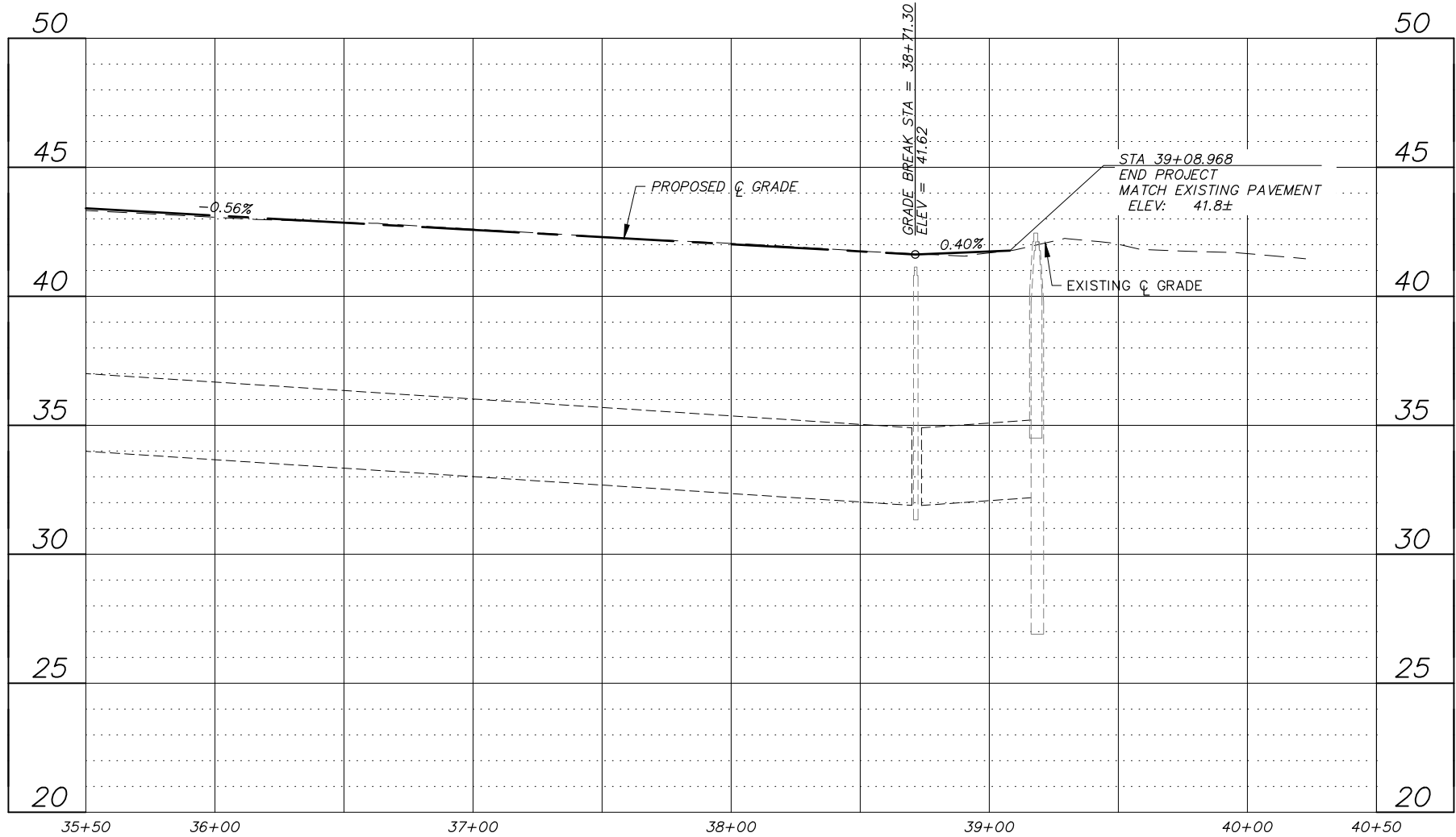
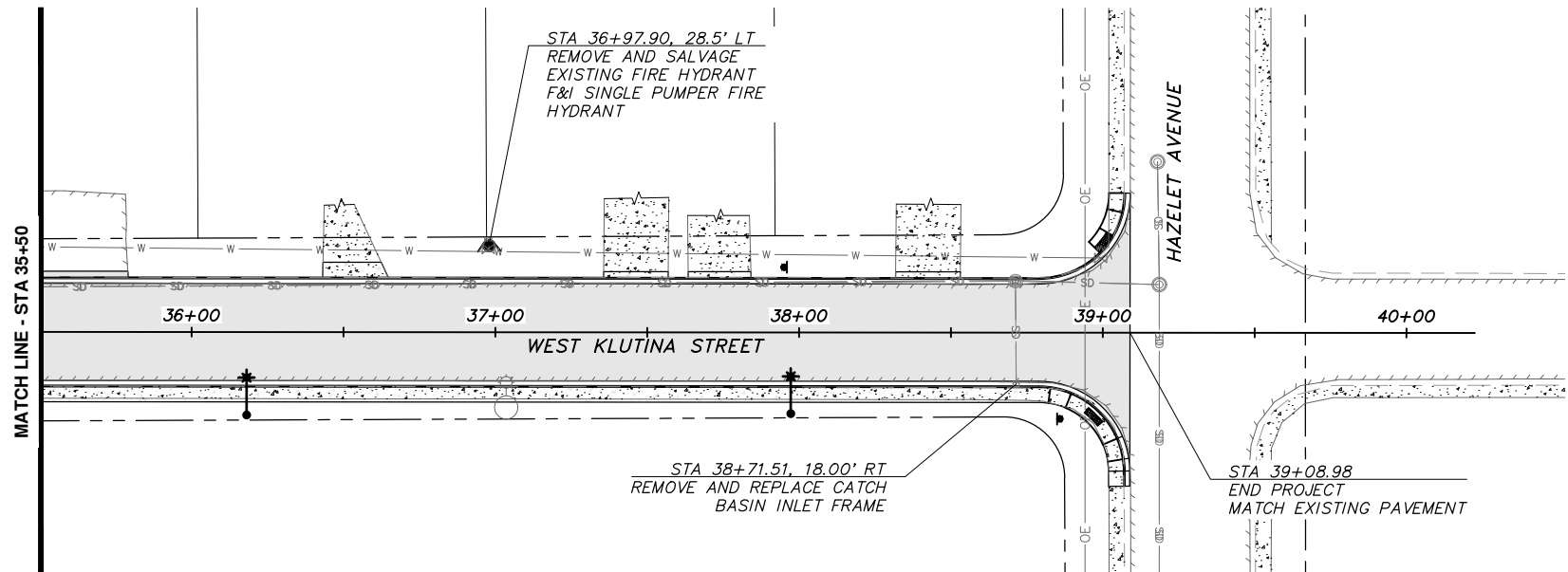
SCHEDULE A

PROJECT NO.  
20308.00

CITY GRID  
WATER GRID  
SEWER GRID

SHEET  
OF  
10  
25

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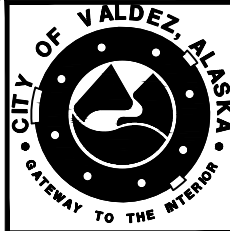


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GRAPHIC SCALE 30 0 30 60 90

REVISION			
REV	DATE	DESCRIPTION	BY

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REV	DATE	DESCRIPTION	BY

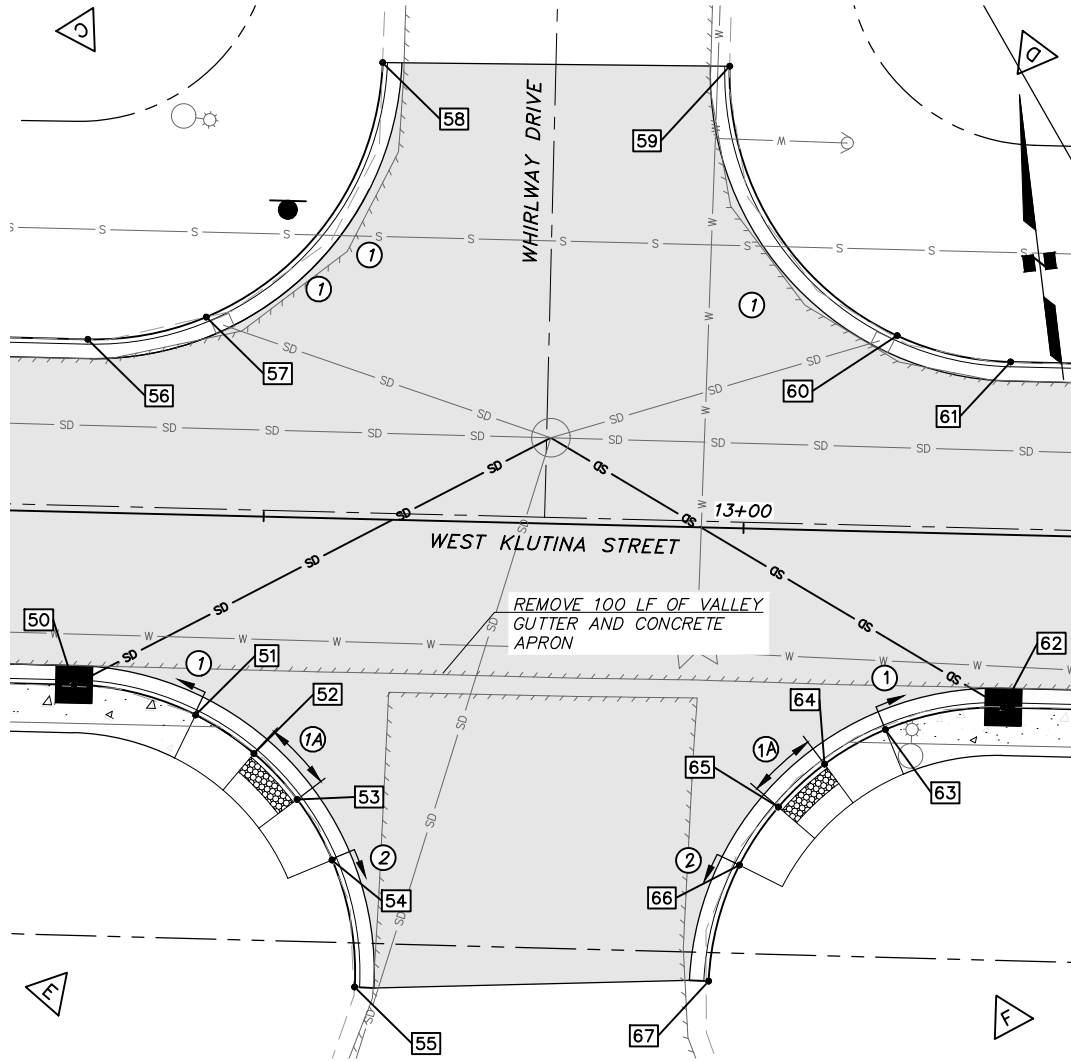
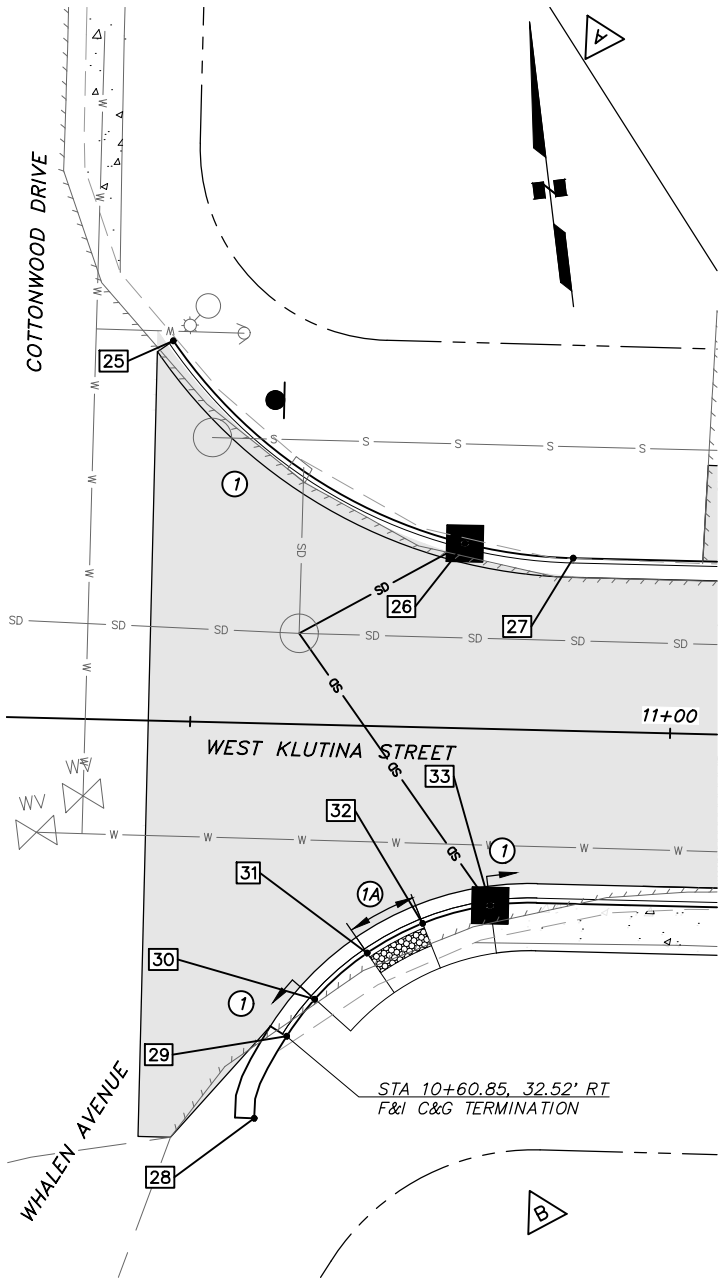


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PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
ROADWAY PLAN & PROFILE		
STA 35+50 TO EOP		
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	11
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Intersection Layouts.dwg



POINT SUMMARY

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE #	DESCRIPTION
50	12+30.68	18.00 RT	54.61	1	PC
51	12+43.41	20.84 RT	54.67	1	BEGIN RAMP
52	12+49.58	24.71 RT	54.32	1A	END RAMP, BEGIN LANDING
53	12+54.19	29.38 RT	54.36	1A	END LANDING, BEGIN RAMP, HP
54	12+57.99	35.59 RT	54.45	2	END RAMP
55	12+60.67	48.75 RT	54.24	2	PT, MATCH EXISTING TYPE 2 C&G
56	12+31.23	18.00 LT	54.61	1	PC
57	12+43.51	20.63 LT	54.30	1	CATCH BASIN, LOW POINT
58	12+61.23	47.57 LT	54.37	2	PT, MATCH EXISTING TYPE 2 C&G
59	12+97.37	48.07 LT	54.36	2	PC, MATCH EXISTING TYPE 2 C&G
60	13+15.49	20.45 LT	54.16	1	CATCH BASIN, LOW POINT
61	13+27.37	18.00 LT	54.23	1	PT
62	13+27.51	18.00 RT	54.23	1	PT
63	13+15.28	20.61 RT	54.36	1	BEGIN RAMP
64	13+09.04	24.36 RT	54.03	1A	END RAMP, BEGIN LANDING
65	13+04.34	28.94 RT	54.07	1A	END LANDING, BEGIN RAMP
66	13+00.43	35.09 RT	54.33	2	END RAMP, BEGIN TYPE 2 C&G, HP
67	12+97.52	47.25 RT	54.25	2	PC, MATCH EXISTING TYPE 2 C&G
25	10+47.27	39.61 LT	54.22	2	PC, MATCH EXISTING TYPE 2 C&G
26	10+78.15	19.25 LT	54.19	1	CATCH BASIN, LOW POINT
27	10+89.46	18.00 LT	54.27	1	PT
28	10+57.68	41.16 RT	54.10	1	-
29	10+60.85	32.52 RT	54.23	1	PC
30	10+63.66	28.60 RT	54.29	1	BEGIN RAMP
31	10+69.01	23.66 RT	53.95	1A	BEGIN LANDING, END RAMP
32	10+74.72	20.43 RT	53.87	1A	BEGIN RAMP, END LANDING
33	10+81.70	18.39 RT	54.22	1	PT, LOW POINT

* PROVIDE CONTINUOUS TRANSITION FROM TYPE 1 TO TYPE 2 C&G OVER 6'.

CURB RADIUS TABLE

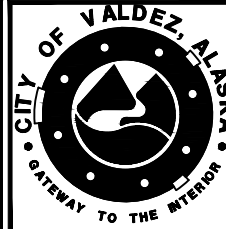
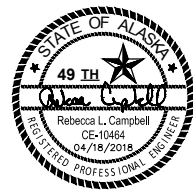
POINT NO.	TBC RADIUS POINT		RADIUS (FT)	DESCRIPTION
	STATION	OFFSET (FT)		
A	10+89.46	70.00 LT	52.0	NE CORNER COTTONWOOD DRIVE
B	10+86.55	48.00 RT	30.0	SE CORNER WHALEN AVENUE
C	12+31.23	48.00 LT	30.0	NW CORNER WHIRLWAY DRIVE
D	13+27.37	48.00 LT	30.0	NE CORNER WHIRLWAY DRIVE
E	12+30.68	48.00 RT	30.0	SW CORNER WHIRLWAY DRIVE
F	13+27.51	48.00 RT	30.0	SE CORNER WHIRLWAY DRIVE



3940 ARCTIC BLVD, SUITE 300  
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PHONE: (907) 562-3252  
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GRAPHIC SCALE

REVISION				REVISION			
REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY



SCALE
HOR. 1" = 10'
VER. N/A
DESIGNED BY
RLC
DRAWN BY
KY
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714

CITY OF VALDEZ, ALASKA

WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT

INTERSECTION LAYOUT

COTTONWOOD & WHIRLWAY

STATUS: FINAL

DATE: 04/19/2018

PROJECT NO.

20308.00

CITY GRID

WATER GRID

SEWER GRID

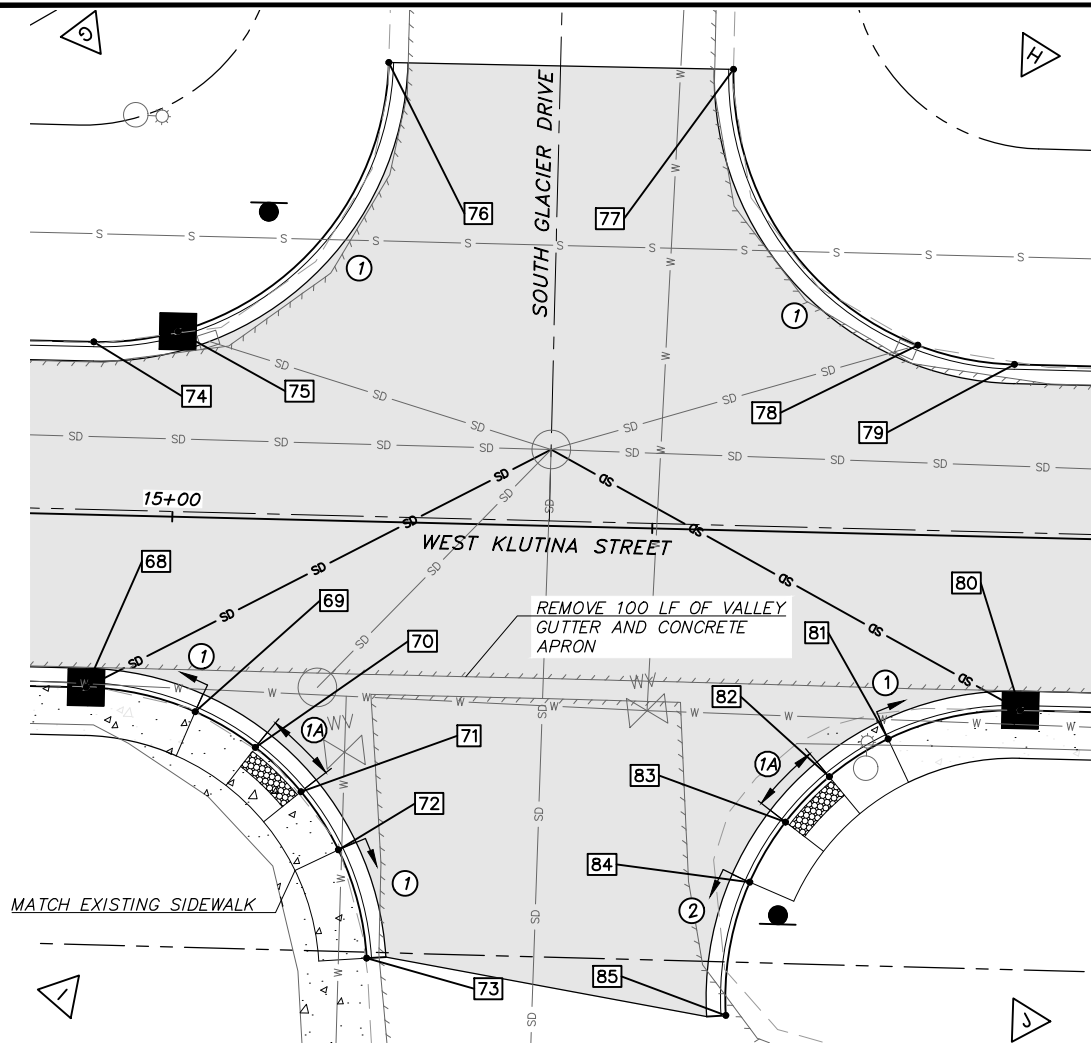
SHEET

12

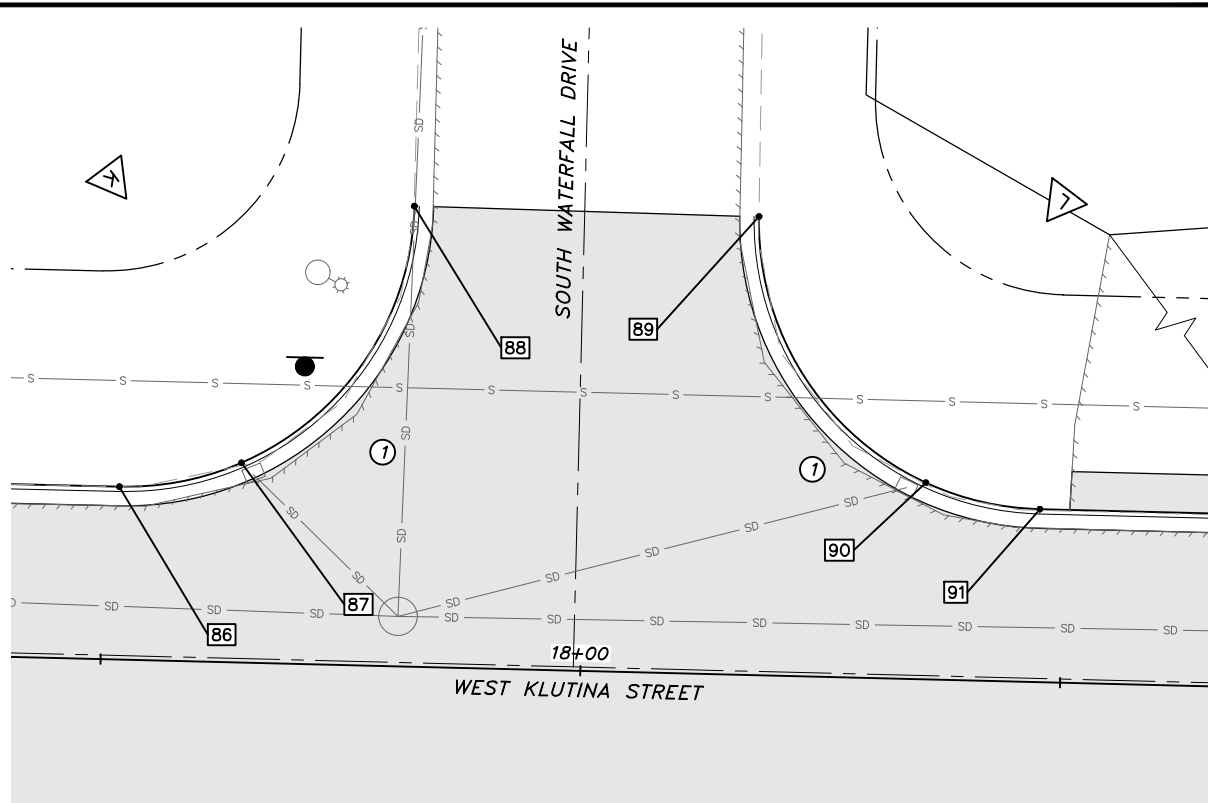
OF

25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Intersection Layouts.dwg



CURB RADIUS TABLE			
POINT NO.	TBC RADIUS POINT		DESCRIPTION
	STATION	OFFSET (FT)	
G	14+91.38	48.00 LT	NW CORNER SOUTH GLACIER DRIVE
H	15+87.29	48.00 LT	NE CORNER SOUTH GLACIER DRIVE
I	14+91.46	48.00 RT	SW CORNER SOUTH GLACIER DRIVE
J	15+88.80	48.00 RT	SE CORNER SOUTH GLACIER DRIVE
K	17+51.52	48.00 LT	NW CORNER SOUTH GLACIER DRIVE
L	18+47.44	48.00 LT	NE CORNER SOUTH GLACIER DRIVE



POINT SUMMARY					
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE #	DESCRIPTION
68	14+91.46	18.00 RT	53.57	1	PC, LOW POINT
69	15+02.87	20.26 RT	53.82	1	BEGIN RAMP
70	15+09.22	23.82 RT	53.45	1A	END RAMP, BEGIN LANDING
71	15+14.09	28.31 RT	53.50	1A	END LANDING, BEGIN RAMP
72	15+18.13	34.28 RT	53.96	1	END RAMP, BEGIN TYPE 2 C&G
73	15+21.35	45.47 RT	53.66	1	PT, MATCH NEW TYPE 1 C&G
74	14+91.38	18.00 LT	53.57	1	PC
75	15+00.11	19.30 LT	53.48	1	CATCH BASIN, LOW POINT
76	15+21.38	47.85 LT	53.61	2	PT, MATCH EXISTING TYPE 2 C&G
77	15+57.29	48.01 LT	53.61	2	PC, MATCH EXISTING TYPE 2 C&G
78	15+77.19	19.75 LT	53.62	1	CATCH BASIN, LOW POINT
79	15+87.29	18.00 LT	53.99	1	PT
80	15+88.80	18.00 RT	53.99	1	PT, LOW POINT
81	15+75.10	21.31 RT	54.08	1	BEGIN RAMP
82	15+69.07	25.41 RT	53.71	1A	END RAMP, BEGIN LANDING
83	15+64.62	30.24 RT	53.76	1A	END LANDING, BEGIN RAMP, HP
84	15+61.06	36.59 RT	53.75	2	END RAMP, BEGIN TYPE 2 C&G
85	15+58.91	50.53 RT	53.34	2	PC, MATCH EXISTING TYPE 2 C&G
86	17+51.52	18.00 LT	54.69	1	PC
87	17+64.18	20.81 LT	54.28	1	CATCH BASIN, LOW POINT
88	17+81.52	47.96 LT	54.24	2	PT, MATCH EXISTING TYPE 2 C&G
89	18+17.45	47.77 LT	54.31	2	PC, MATCH EXISTING TYPE 2 C&G
90	18+35.50	20.48 LT	54.32	1	CATCH BASIN, LOW POINT
91	18+47.44	18.00 LT	54.64	1	PT

* PROVIDE CONTINUOUS TRANSITION FROM TYPE 1 TO TYPE 2 C&G OVER 6'.

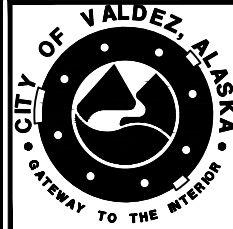


3940 ARCTIC BLVD, SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECL882-AK

GRAPHIC SCALE

REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY

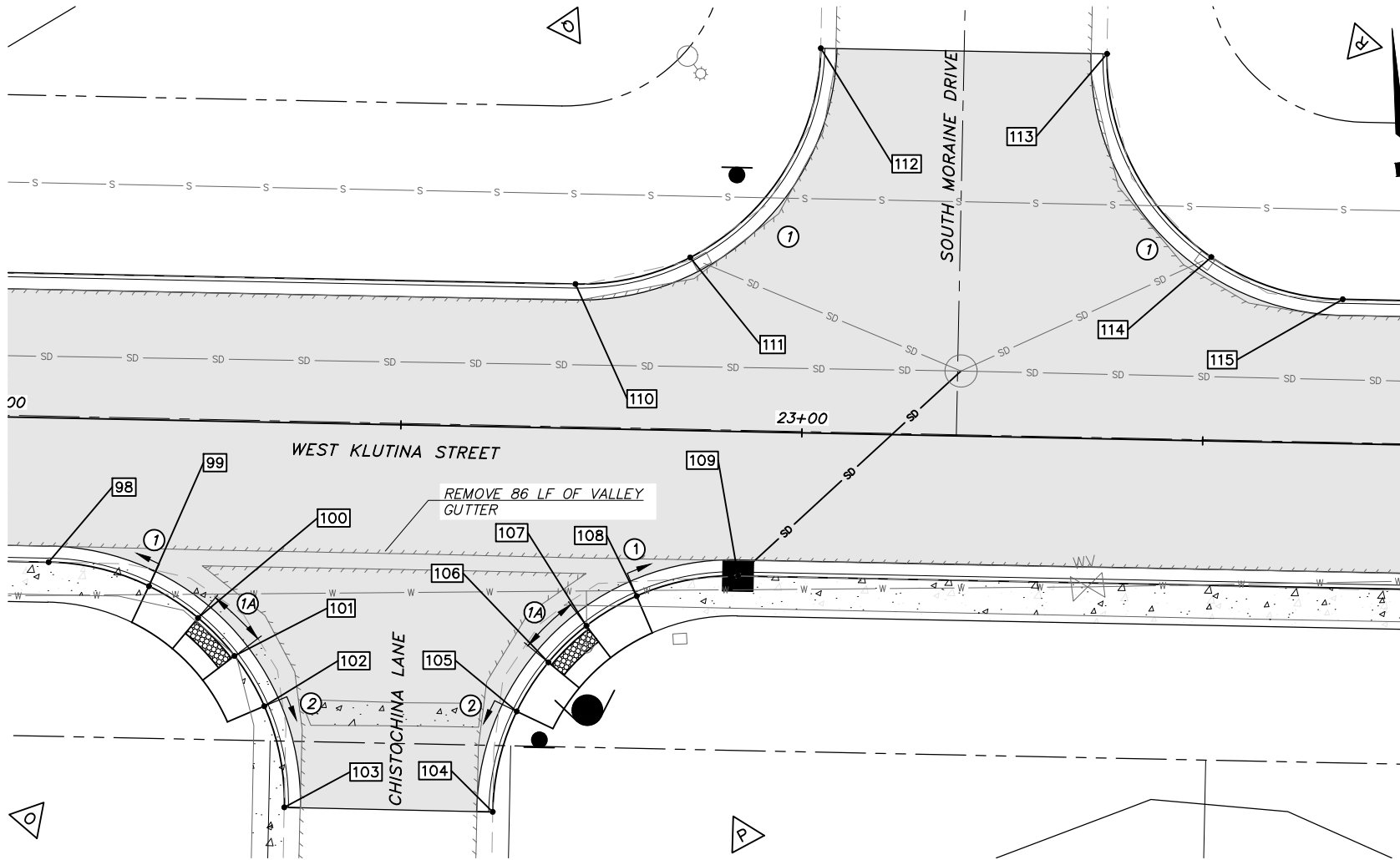
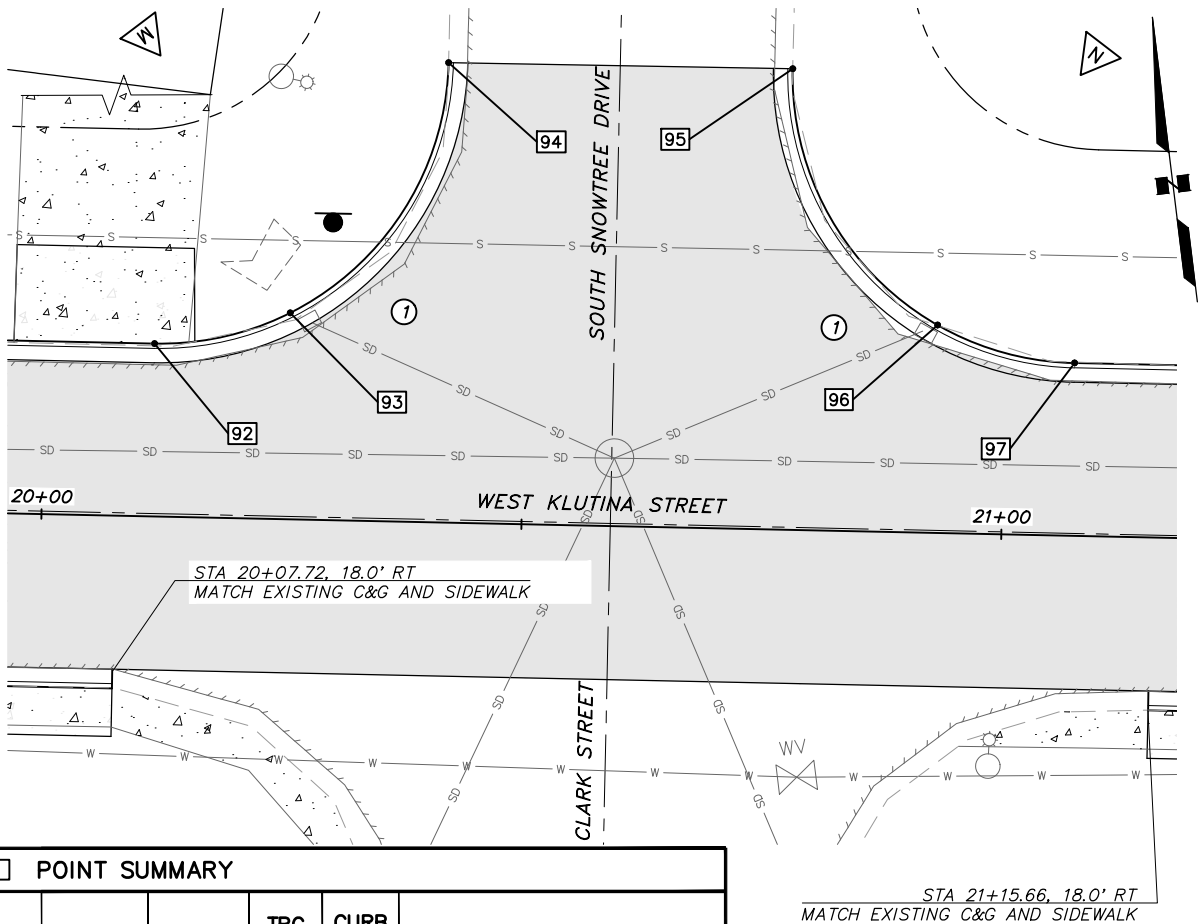


SCALE
HOR. 1" = 10'
VER. N/A
DESIGNED BY
RLC
DRAWN BY
KY
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
INTERSECTION LAYOUT		
S. GLACIER & S. WATERFALL		
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	13
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Intersection Layouts.dwg



POINT SUMMARY					
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE #	DESCRIPTION
92	20+11.40	18.00 LT	53.98	1A	PC
93	20+25.45	21.50 LT	53.80	1	CATCH BASIN, LOW POINT
94	20+41.40	47.90 LT	53.77	2	PT, MATCH EXISTING TYPE 2 C&G
95	20+77.24	48.02 LT	53.77	2	PC, MATCH EXISTING TYPE 2 C&G
96	20+92.90	21.65 LT	53.70	1	CATCH BASIN, LOW POINT
97	21+07.24	18.00 LT	54.01	1	PT
98	22+06.40	18.00 RT	54.40	1	PC, LOW POINT
99	22+18.97	20.76 RT	54.50	1	BEGIN RAMP
100	22+25.17	24.59 RT	54.19	1A	END RAMP, BEGIN LANDING
101	22+29.81	29.24 RT	54.29	1A	END LANDING, BEGIN RAMP
102	22+33.64	35.43 RT	54.60	2	END RAMP, BEGIN TYPE 2 C&G
103	22+36.40	48.00 RT	54.78	2	PT, MATCH EXISTING TYPE 2 C&G
104	22+62.40	48.05 RT	54.73	2	PC, MATCH EXISTING TYPE 2 C&G
105	22+65.15	35.45 RT	54.64	2	BEGIN RAMP, END TYPE 2 C&G, HP
106	22+68.98	29.25 RT	54.39	1A	BEGIN LANDING, END RAMP
107	22+73.62	24.61 RT	54.35	1A	BEGIN RAMP, END LANDING
108	22+79.81	20.77 RT	54.73	1	END RAMP
109	22+92.40	18.00 RT	54.66	1	PT, LOW POINT
110	22+71.40	18.00 LT	54.58	1	PC
111	22+85.63	21.59 LT	54.17	1	CATCH BASIN, LOW POINT
112	23+01.40	48.02 LT	54.11	2	PT, MATCH EXISTING TYPE 2 C&G
113	23+37.10	48.03 LT	54.12	2	PC, MATCH EXISTING TYPE 2 C&G
114	23+50.60	22.94 LT	54.18	1	CATCH BASIN, LOW POINT
115	23+67.10	18.00 LT	54.47	1	PT

* PROVIDE CONTINUOUS TRANSITION FROM TYPE 1 TO TYPE 2 C&G OVER 6'.

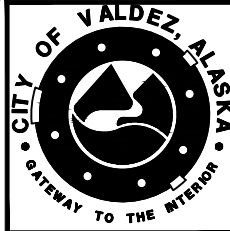
CURB RADIUS TABLE			
POINT NO.	TBC RADIUS POINT		DESCRIPTION
	STATION	OFFSET (FT)	
M	20+11.40	48.00 LT	30.0 NW CORNER SOUTH SNOWTREE DRIVE
N	21+07.24	48.00 LT	30.0 NE CORNER SOUTH SNOWTREE DRIVE
O	22+06.40	48.00 RT	30.0 SW CORNER CHISTOCHINA LANE
P	22+92.40	48.00 RT	30.0 SE CORNER CHISTOCHINA LANE
Q	22+71.40	48.00 LT	30.0 NW CORNER SOUTH MORaine DRIVE
R	23+67.10	48.00 LT	30.0 NE CORNER SOUTH MORaine DRIVE



3940 ARCTIC BLVD. SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECL882-AK

GRAPHIC SCALE 1" = 10'

REVISION				REVISION			
REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY

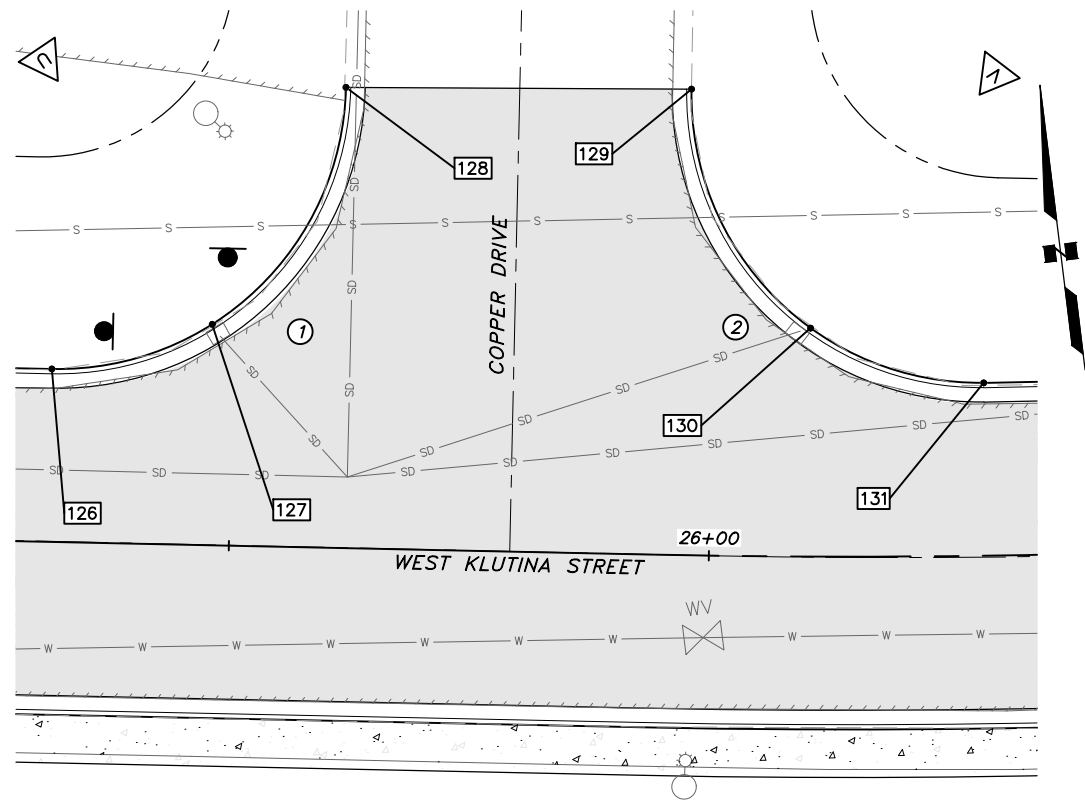
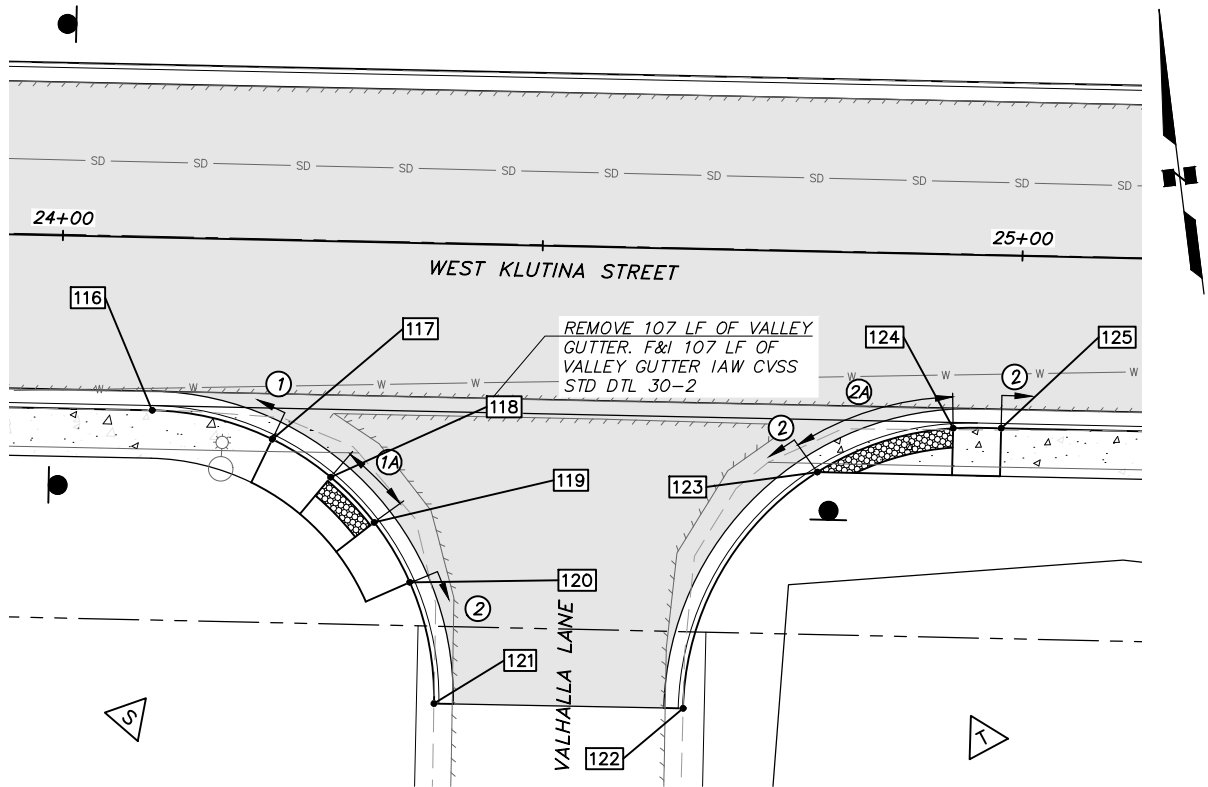


SCALE	HOR. 1" = 10'
	VER. N/A
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
	WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT	
	INTERSECTION LAYOUT	
	SNOWTREE, CHISTOCHINA, S. MORaine	
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	14
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Intersection Layouts.dwg



□ POINT SUMMARY

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE #	DESCRIPTION
116	24+09.67	18.00 RT	54.12	1	PC, LOW POINT
117	24+22.25	20.76 RT	54.20	1	BEGIN RAMP
118	24+28.42	24.58 RT	53.82	1A	END RAMP, BEGIN LANDING
119	24+33.04	29.19 RT	53.86	1A	END LANDING, BEGIN RAMP
120	24+36.88	35.35 RT	54.09	2	END RAMP, BEGIN TYPE 2 C&G
121	24+39.67	47.92 RT	54.16	2	PT, MATCH EXISTING TYPE 2 C&G
122	24+65.64	47.87 RT	54.21	2	PC, MATCH EXISTING TYPE 2 C&G
123	24+79.10	22.97 RT	53.73	2A	BEGIN LANDING, END TYPE 2 C&G
124	24+93.15	18.10 RT	53.54	2A	END LANDING, BEGIN RAMP
125	24+98.15	18.00 RT	53.65	2	PT, END RAMP
126	25+31.18	18.00 LT	53.60	1	PC
127	25+47.78	23.01 LT	52.84	1	CATCH BASIN, LOW POINT
128	25+61.18	47.98 LT	52.77	2	PT, MATCH EXISTING TYPE 2 C&G
129	25+97.36	48.55 LT	52.80	2	PC, MATCH EXISTING TYPE 2 C&G
130	26+10.50	23.79 LT	52.65	2	CATCH BASIN, LOW POINT
131	26+28.88	18.00 LT	52.97	2	PT

* PROVIDE CONTINUOUS TRANSITION FROM TYPE 1 TO TYPE 2 C&G OVER 6'.

△ CURB RADIUS TABLE

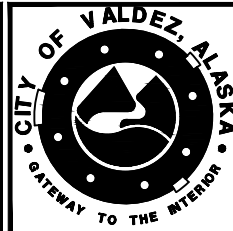
POINT NO.	TBC RADIUS POINT		RADIUS (FT)	DESCRIPTION
	STATION	OFFSET (FT)		
S	24+09.67	48.00 RT	30.0	SW CORNER VALHALLA LANE
T	24+95.64	48.00 RT	30.0	SE CORNER VALHALLA LANE
U	25+31.18	48.00 LT	30.0	NW CORNER COPPER DRIVE
V	26+28.88	48.00 LT	30.0	NE CORNER COPPER DRIVE



3940 ARCTIC BLVD, SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECL882-AK

GRAPHIC SCALE 1" = 10'

REVISION				REVISION			
REV	DATE	DESCRIPTION	BY	REV	DATE	DESCRIPTION	BY

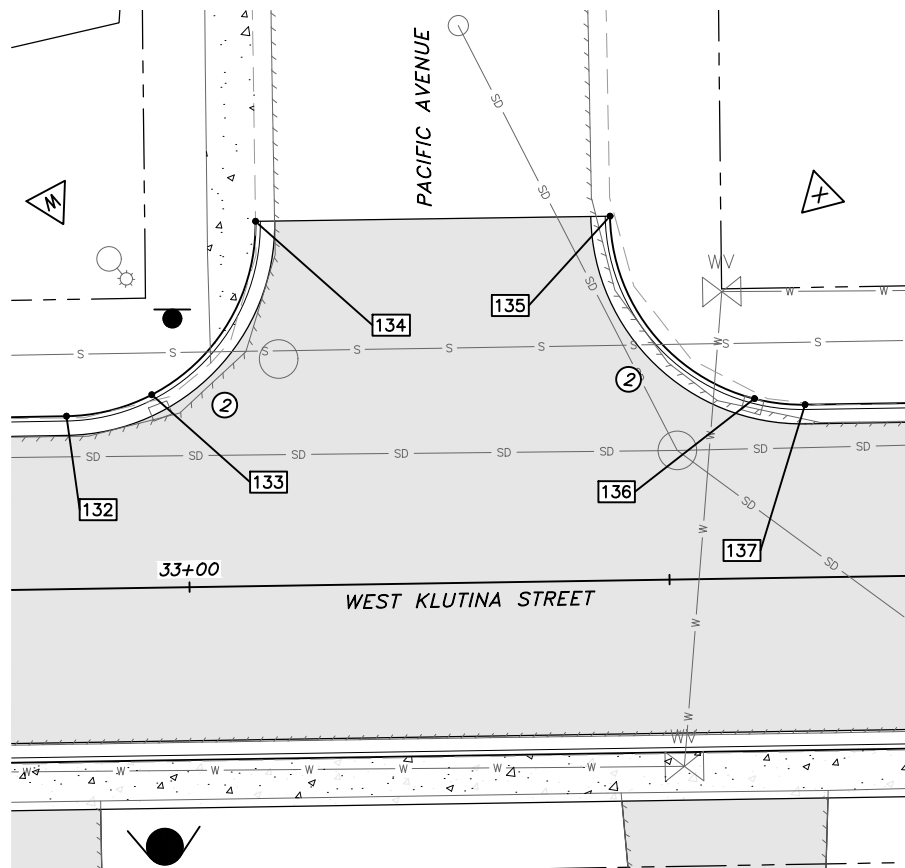


SCALE
HOR. 1" = 10'
VER. N/A
DESIGNED BY
RLC
DRAWN BY
KY
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
INTERSECTION LAYOUT		
VALHALLA & COPPER		
STATUS: FINAL	DATE: 04/19/2018	

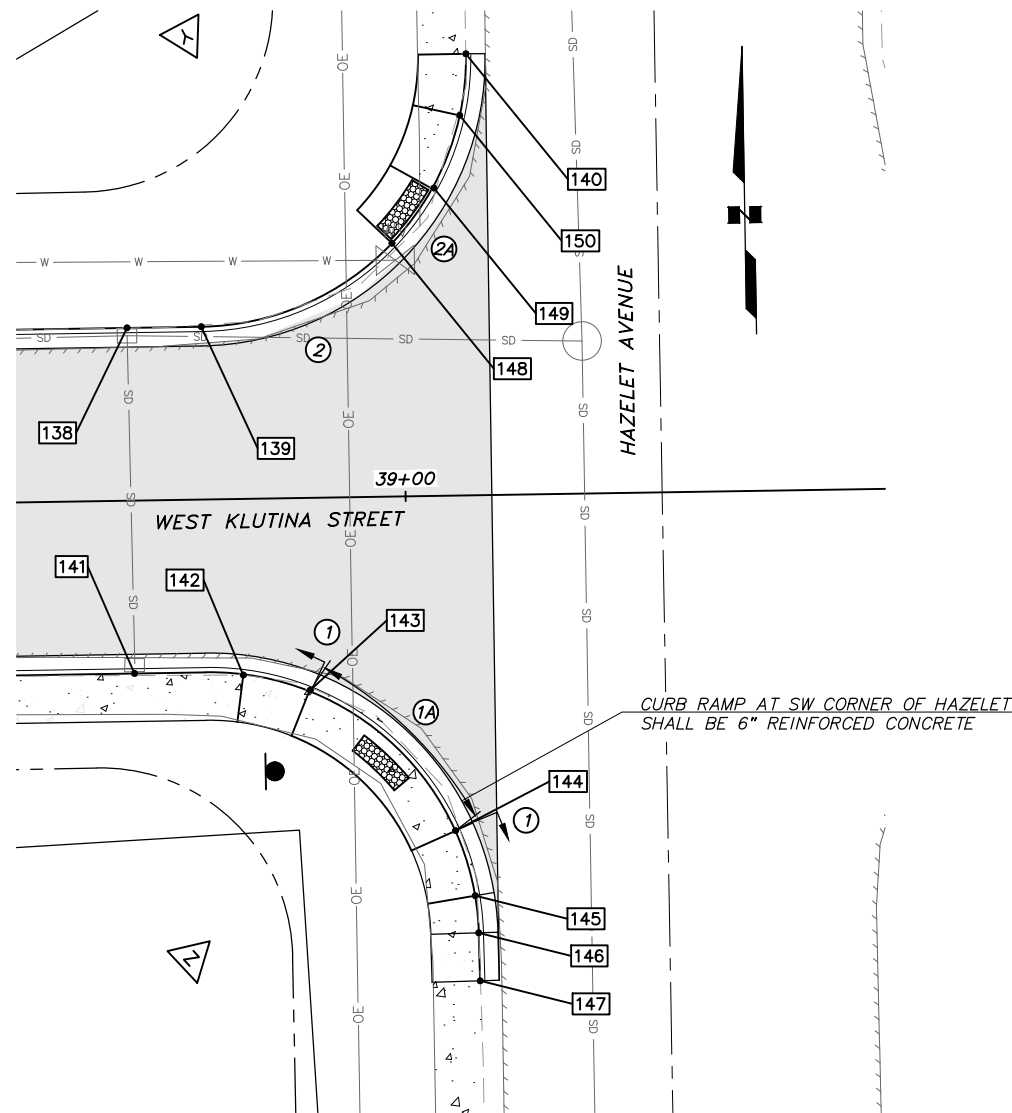
PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	15
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Intersection Layouts.dwg



POINT SUMMARY					
POINT □	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE #	DESCRIPTION
132	32+87.47	18.00 LT	45.29	2	PC
133	32+96.39	20.10 LT	44.85	2	CATCH BASIN, LOW POINT
134	33+07.47	37.99 LT	45.09	2	PT, MATCH EXISTING TYPE 2 C&G
135	33+44.40	37.94 LT	45.01	2	PC, MATCH EXISTING TYPE 2 C&G
136	33+59.14	18.71 LT	44.26	2	CATCH BASIN, LOW POINT
137	33+64.40	18.00 LT	44.37	2	PT
138	38+71.25	18.00 LT	41.34	2	CATCH BASIN, LOW POINT
139	38+78.99	18.00 LT	41.50	2	PC
148	38+98.98	26.39 LT	41.94	2A	BEGIN TYPE 2A C&G
149	39+03.25	32.01 LT	42.08	2A	END TYPE 2A C&G, BEGIN RAMP
150	39+06.25	39.59 LT	42.53	1	END RAMP, BEGIN TYPE 1 C&G
140	39+06.99	45.99 LT	42.65	1	PT, MATCH EXISTING TYPE 1 C&G
141	38+78.89	18.00 RT	41.54	1	PC, CATCH BASIN, LOW POINT
142	38+82.80	18.34 RT	41.57	1	BEGIN RAMP
143	38+89.64	20.14 RT	41.20	1A	END RAMP, BEGIN LANDING
144	39+04.61	34.92 RT	41.35	1A	END LANDING, BEGIN RAMP
145	39+06.56	41.70 RT	41.82	1	END RAMP, BEGIN TYPE 1 C&G
146	39+06.89	45.57 RT	41.85	1	PT
147	39+06.96	50.57 RT	41.90	1	MATCH EXISTING TYPE 1 C&G

* PROVIDE CONTINUOUS TRANSITION FROM TYPE 1 TO TYPE 2 C&G OVER 6'.



△ CURB RADIUS TABLE				
POINT NO.	TBC RADIUS POINT		RADIUS (FT)	DESCRIPTION
	STATION	OFFSET (FT)		
W	32+87.47	38.00 LT	20.0	NW CORNER PACIFIC AVENUE
X	33+64.40	38.00 LT	20.0	NE CORNER PACIFIC AVENUE
Y	38+78.99	46.00 LT	28.0	NW CORNER HAZELET AVENUE
Z	38+78.89	46.00 RT	28.0	SW CORNER HAZELET AVENUE

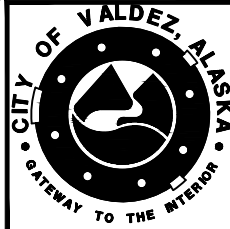


3940 ARCTIC BLVD, SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECL882-AK

GRAPHIC SCALE 1" = 10'

REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY

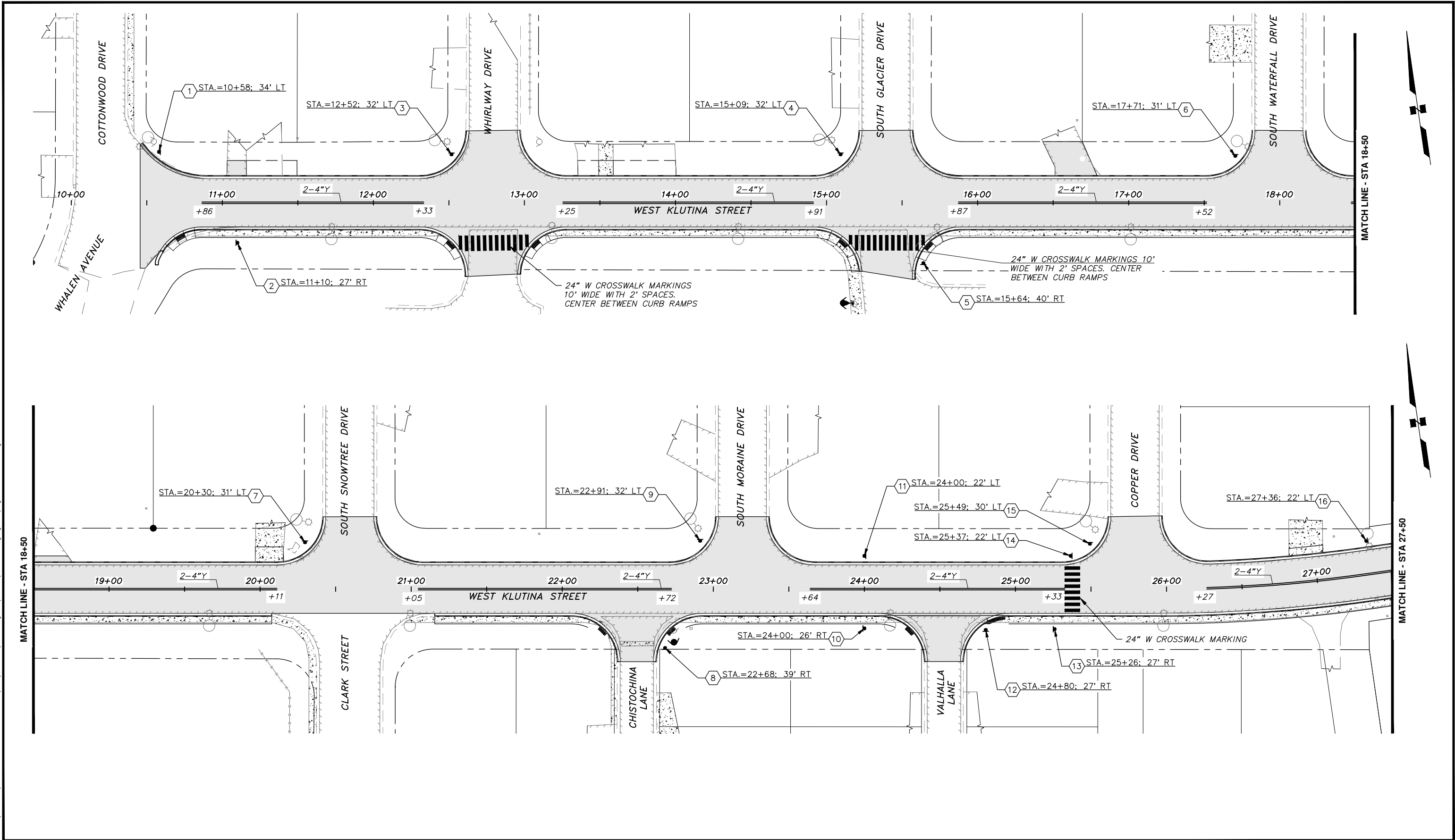


SCALE
HOR. 1" = 10'
VER. N/A
DESIGNED BY
RLC
DRAWN BY
KY
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE A
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
INTERSECTION LAYOUT		
PACIFIC & HAZELET		
STATUS: FINAL	DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	16
OF	25

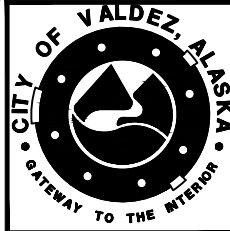
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3940 ARCTIC BLVD. SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECL882-AK

REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY



SCALE
HOR. 1" = 30'
VER. 1" = 3'
DESIGNED BY
RLC
DRAWN BY
KY
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714

CITY OF VALDEZ, ALASKA  
WEST KLUTINA – COTTONWOOD TO HAZELET  
REPAVE, GUTTER & SIDEWALK REPLACEMENT  
**SIGNAGE & STRIPING PLAN OVER PLAN**

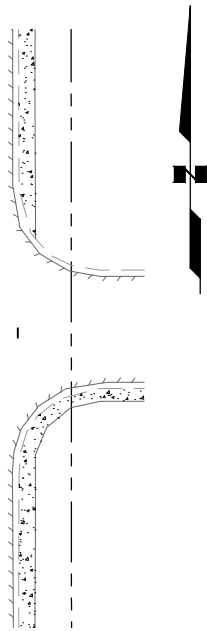
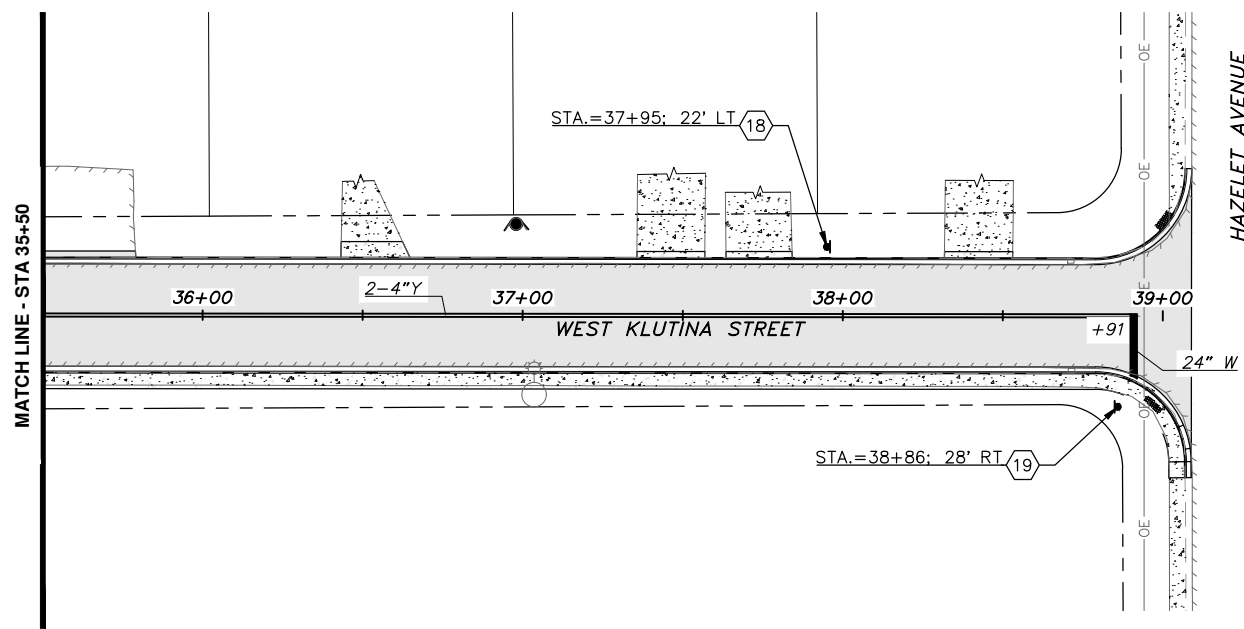
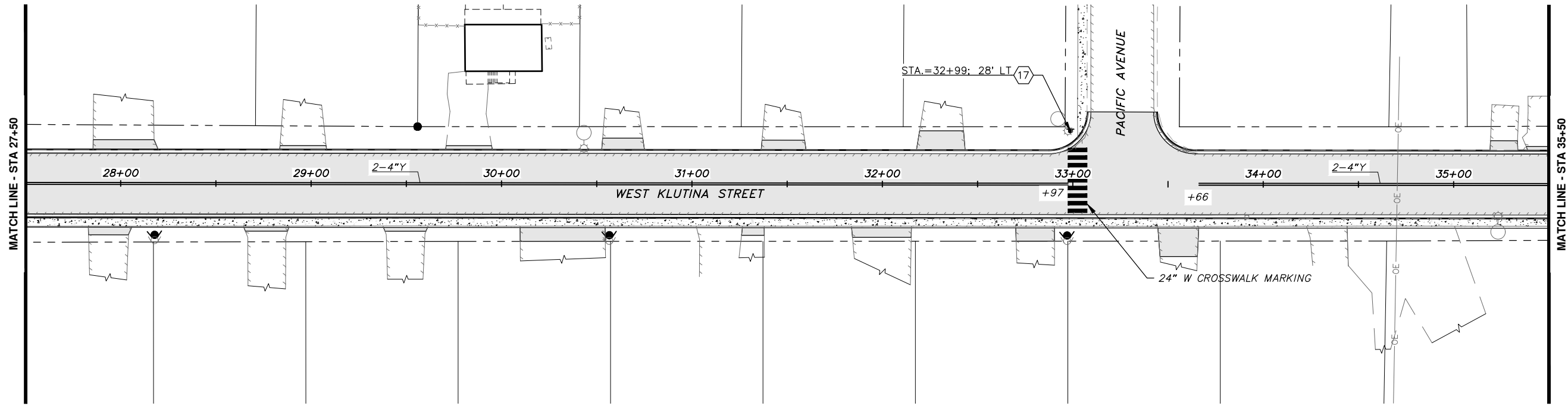
STATUS: FINAL

DATE: 04/19/2018

SCHEDULE A

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	17
OF	25

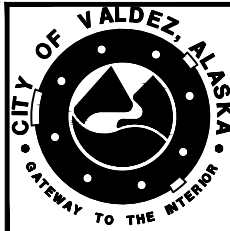
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3940 ARCTIC BLVD, SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECL882-AK

REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY



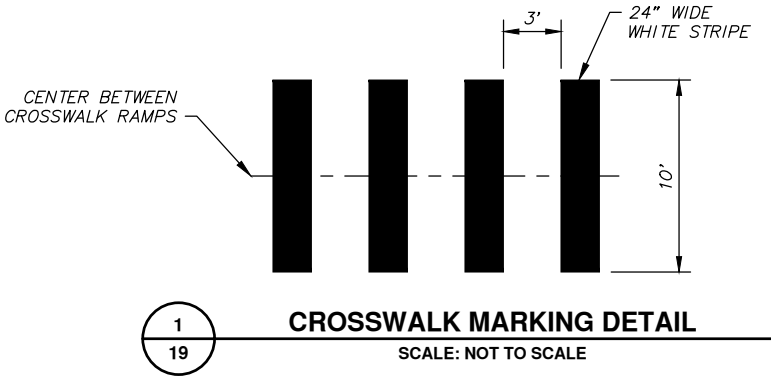
SCALE	
HOR. 1" = 30'	
VER. 1" = 3'	
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA		SCHEDULE A
	WEST KLUTINA – COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT		
	SIGNAGE & STRIPING PLAN OVER PLAN		
STATUS: FINAL		DATE: 04/19/2018	

PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	18
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00 CAD\01 Working Set\01 Civil\20308.00 Signage Striping Plan Over Plan.dwg

70.14 STANDARD SIGNS							
ID NO	LOCATION				FACES POST		LEGEND
	STATION	OFFSET	TYPE	SIZE			
1	10+58.00	34.0' LT	D3-1B	VARIES	N/S	2" PST	W KLUTINA ST
			D3-1B	VARIES	E/W		COTTONWOOD DR
2	11+10.00	27.0' RT	S1-1	36" X 36"	W	2.5" PST	SCHOOL WARNING
			W16-9P	18" X 24"	W		AHEAD
3	12+52.00	32.0' LT	R1-1	30" X 30"	N	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		WHIRLWAY DR
4	15+09.00	32.0' LT	R1-1	30" X 30"	N	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		S GLACIER DR
5	15+64.00	40.0' RT	R1-1	30" X 30"	S	2" PST	STOP SIGN
6	17+71.00	31.0' LT	R1-1	30" X 30"	N	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		S WATERFALL DR
7	20+30.00	31.0' LT	R1-1	30" X 30"	N	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		S SNOWTREE DR
8	22+68.00	39.0' RT	R1-1	30" X 30"	S	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		CHISTOCHINA LN
9	22+91.00	32.0' LT	R1-1	30" X 30"	N	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		S MORaine DR
10	24+00.00	26.0' RT	EM-1A	24" X 24"	W	2" PST	TSUNAMI EVACUATION ROUTE
			W16-9P	18" X 24"	W		LEFT ARROW
11	24+00	22.0' LT	S1-1	36" X 36"	E	2.5" PST	SCHOOL WARNING
			W16-9P	18" X 24"	E		AHEAD
12	24+80.00	27.0' RT	R1-1	30" X 30"	S	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		VALHALLA LN
13	25+26.00	27.0' RT	W11-2	36" X 36"	W	2.5" PST	PEDESTRIAN CROSSING
			W16-7P	24" X 12"	W		DOWN ARROW
14	25+37.00	22.0' LT	W11-2	36" X 36"	E	2.5" PST	PEDESTRIAN CROSSING
			W16-7P	24" X 12"	E		DOWN ARROW
15	25+49.00	30.0' LT	R1-1	30" X 30"	N	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		COPPER DR
16	27+36.00	22.0' LT	EM-1A	24" X 24"	E	2" PST	TSUNAMI EVACUATION ROUTE
			W16-9P	18" X 24"	E		RIGHT ARROW
17	32+99.00	28.0' LT	R1-1	30" X 30"	N	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		PACIFIC AVE
18	37+95.00	22.0' LT	R2-1	24" X 30"	E	2" PST	SPEED LIMIT - 20 MPH
19	38+86.00	28.0' RT	R1-1	30" X 30"	W	2.5" PST	STOP SIGN
			D3-1B	VARIES	N/S		W KLUTINA ST
			D3-1B	VARIES	E/W		HAZELET AVE



STRIPING NOTES

- "W" REFERENCES WHITE MARKINGS.
- "Y" REFERENCES YELLOW MARKINGS.
- ALL TRAFFIC MARKINGS SHALL CONFORM TO THESE CONTRACT DOCUMENTS AND THE STANDARD CVSS DETAILS. ALL REVISIONS SHALL CONFORM TO THE LATEST EDITION OF THE ALASKA TRAFFIC MANUAL AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- SEE ROADWAY SUMMARY TABLES FOR REMOVAL AND REPLACEMENT OF EXISTING SIGNAGE. UNLESS OTHERWISE STATED, PROVIDE 2" PERFORATED STEEL TUBE (PST) SIGN POSTS.

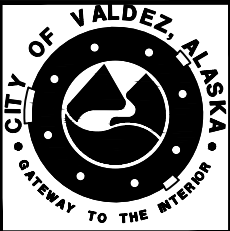
SIGNING NOTES

- THE STATIONS INDICATED IN THE SIGN SUMMARY ARE APPROXIMATE. INSTALL SIGNS AND SIGN FOUNDATIONS PER CVSS STANDARD DETAILS. BEFORE INSTALLING ANY SIGN, STAKE THE LOCATION OF ALL SIGNS FOR THE ENGINEER'S REVIEW AND APPROVAL.
- PROVIDE PERFORATED STEEL TUBE (PST) SIGN POSTS OF THE SIZE INDICATED IN THE SIGN SUMMARY.
- ALL STOP SIGNS AND STREET NAME SIGNS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- THE LETTERING FOR STREET NAME SIGNS (D3 SERIES) SHALL BE FEDERAL HIGHWAY ADMINISTRATION "FHWA 2000 SERIES C" LETTERING, A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER-CASE LETTERS.



REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY

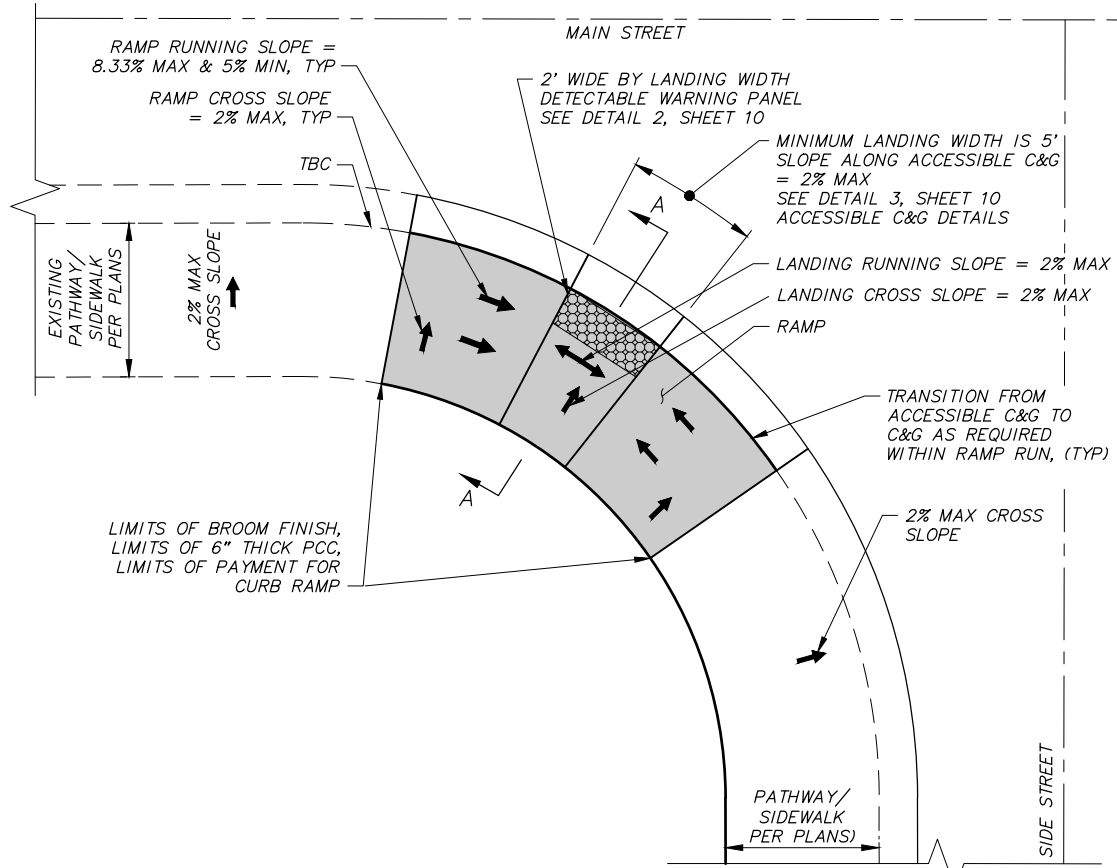


SCALE	HOR. NA VER. NA
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT SIGNAGE & STRIPING NOTES, SUMMARY TABLE & DETAIL	SCHEDULE A
STATUS: FINAL		DATE: 04/19/2018

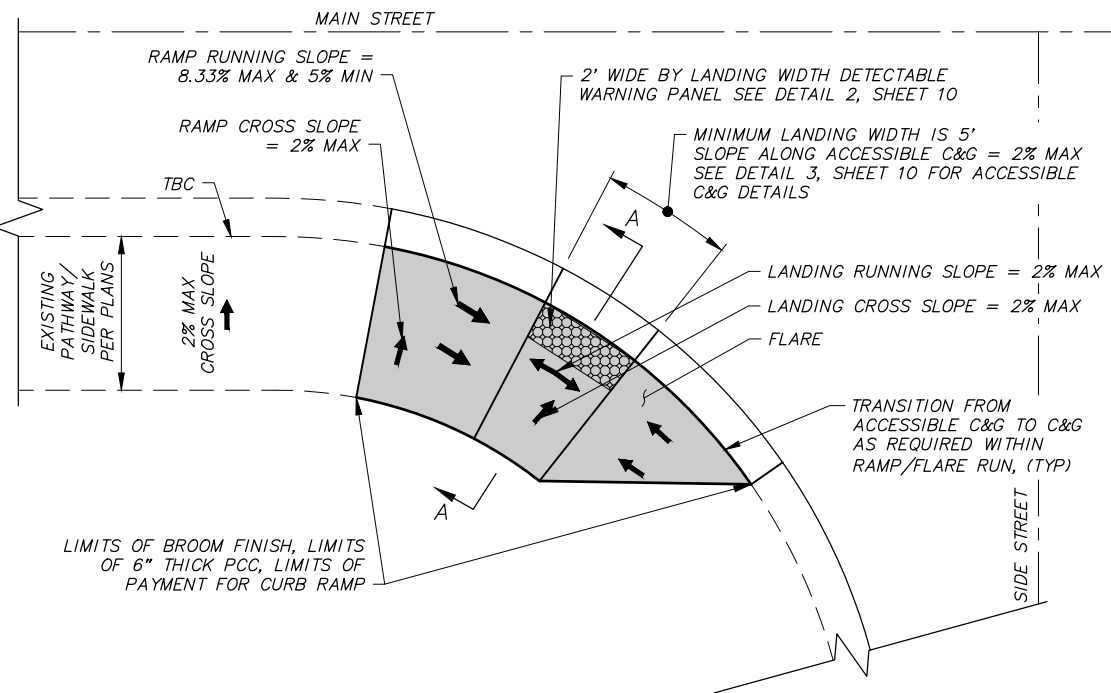
PROJECT NO.	20308.00
CITY GRID	
WATER GRID	
SEWER GRID	
SHEET	19
OF	25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00 CAD\01 Working Set\01 Civil\20308.00 Roadway Details.dwg



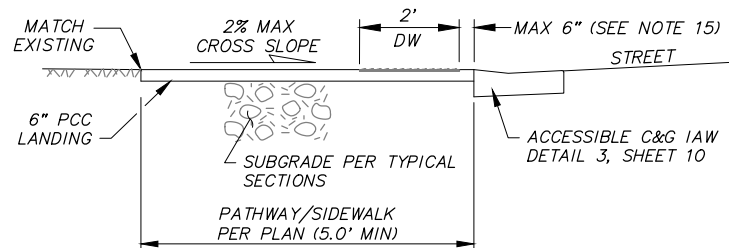
**1**  
**20**

**TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION  
WITH CONNECTING SIDE STREET SIDEWALK - PLAN VIEW**  
SCALE: NOT TO SCALE



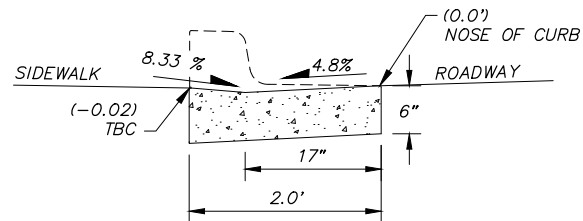
**2**  
**20**

**TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION  
WITHOUT CONNECTING SIDE STREET SIDEWALK - PLAN VIEW**  
SCALE: NOT TO SCALE



**3**  
**20**

**TYPICAL CURB RAMP SECTION**  
SCALE: NOT TO SCALE



**P.C.C. CURB AND GUTTER TYPE 1A**

**ACCESSIBLE CURB & GUTTER NOTES:**

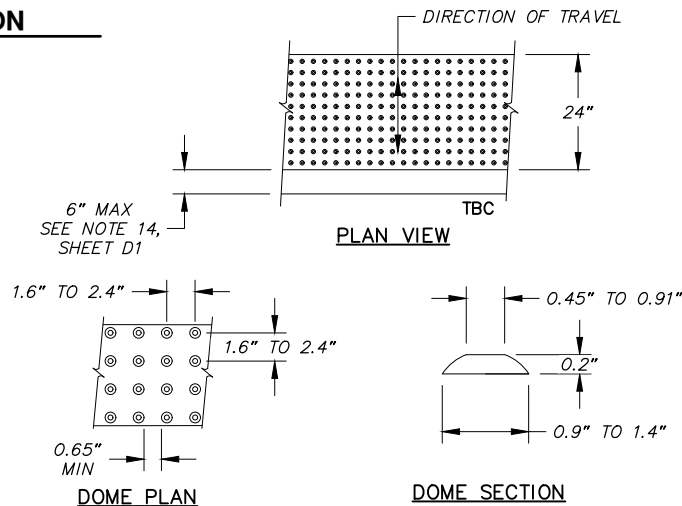
1. TRANSITION CURBS TO MAINTAIN CONSTANT FLOWLINE ACROSS CURB RAMP AND AROUND CURB RETURN IAW PLANS.
2. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "PCC CURE & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.

**4**  
**20**

**ACCESSIBLE CURB & GUTTER SECTIONS**  
SCALE: NOT TO SCALE

**SHEET NOTES**

1. SEE INTERSECTION LAYOUT SHEETS FOR CURB RAMP LOCATIONS. CONSTRUCT RAMP/FLARE/LANDING BASED ON THE CONSTRUCTION SURVEY.
2. MINIMUM FLOWLINE SLOPE IN CURB RETURN IS 0.5%.
3. NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
4. FOR PARALLEL CURB RAMPS, RAMPS SHALL BE 15 FEET MAXIMUM. RAMPS SHALL HAVE THE OUTSIDE EDGES AND JOINTS TRIMMED WITH A 1/4-INCH RADIUS EDGING TOOL.
5. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
6. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
7. CONSTRUCT PATHWAY ADJACENT TO CURB RAMP PER THE TYPICAL SECTIONS SHOWN.
8. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
9. FORM BACK CURB AS DIRECTED BY THE ENGINEER TO MATCH EXISTING GROUND. PAYMENT FOR THIS CURB SHALL BE INCIDENTAL TO THE BID ITEM "P.C.C. CURB RAMP" AND NO ADDITIONAL PAYMENT SHALL BE MADE. IF EXISTING GROUND BEHIND SIDEWALK IS GRAVEL OR GRASS, GRADE TO MATCH EXISTING GROUND. PAYMENT FOR GRADING SHALL BE INCIDENTAL TO THE BID ITEM "P.C.C. CURB RAMP" AND NO ADDITIONAL PAYMENT SHALL BE MADE. SEEDING SHALL BE PLACED ON DISTURBED GRASS AREAS.
10. CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. INSTALL YELLOW ADA APPROVED DETECTABLE WARNINGS (DW) PANELS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. THERE SHALL BE NO LIP AT THE EDGE OF THE DETECTABLE CURB WARNINGS.
12. DETECTABLE WARNINGS DOMES AT PARALLEL CURB RAMPS SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINATE DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
13. RAMP LOCATIONS MAY BE ADJUSTED TO ENSURE MINIMUM 48" CLEARANCE AROUND APPURTENANCES SUCH AS SIGNAL POLES, POWER POLES, LIGHT POLES, J-BOXES, SIGNS, CATCH BASINS AND MANHOLES. PRIOR TO PLACEMENT OF CONCRETE AND APPURTENANCES, THE RAMP LAYOUT AND LOCATION SHALL BE APPROVED BY THE ENGINEER.
14. GAP BETWEEN DETECTABLE WARNING PANELS AND BACK OF CURB ONLY ALLOWABLE AT CENTER OF CURB RAMPS. CORNERS OF DETECTABLE WARNINGS SHALL BE FLUSH WITH BACK OF CURB. IF REQUIRED BY THE ENGINEER CONTRACTOR SHALL CUT DETECTABLE WARNING PANELS PER THE MANUFACTURER'S RECOMMENDATIONS. CUTTING DW PANELS SHALL BE INCIDENTAL TO 30.07 DETECTABLE WARNINGS PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.



**5**  
**20**

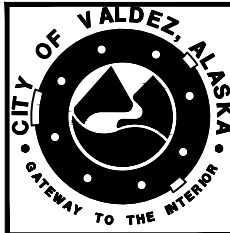
**DETECTABLE WARNING DETAIL**  
SCALE: NOT TO SCALE



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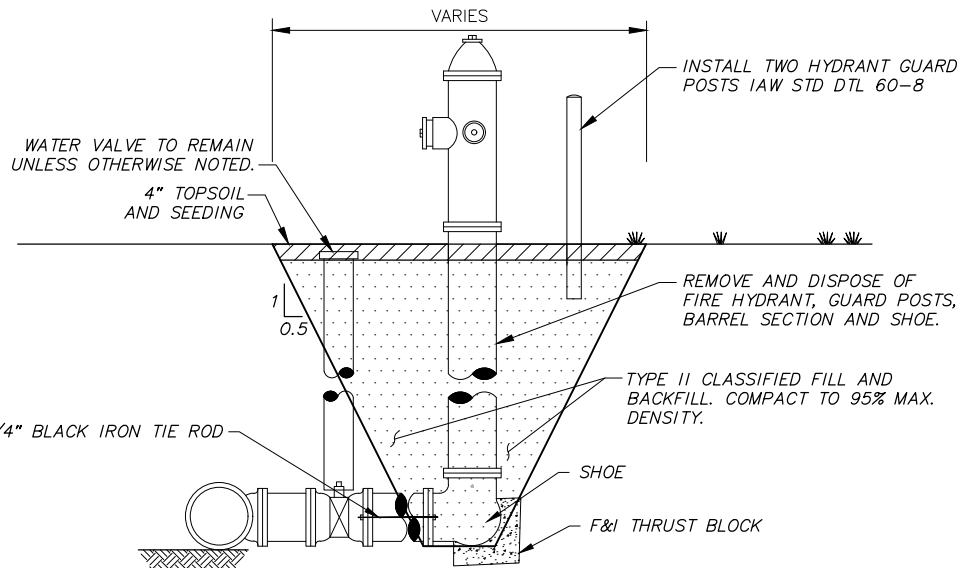
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REV	DATE	DESCRIPTION	BY



SCALE	HOR. N/A VER. N/A
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT ROADWAY DETAILS	SCHEDULE A	PROJECT NO. 20308.00
			CITY GRID
STATUS: FINAL	DATE: 04/19/2018		WATER GRID
			SEWER GRID
			SHEET 20
			OF 25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\01 Civil\20308.00 Roadway Details.dwg



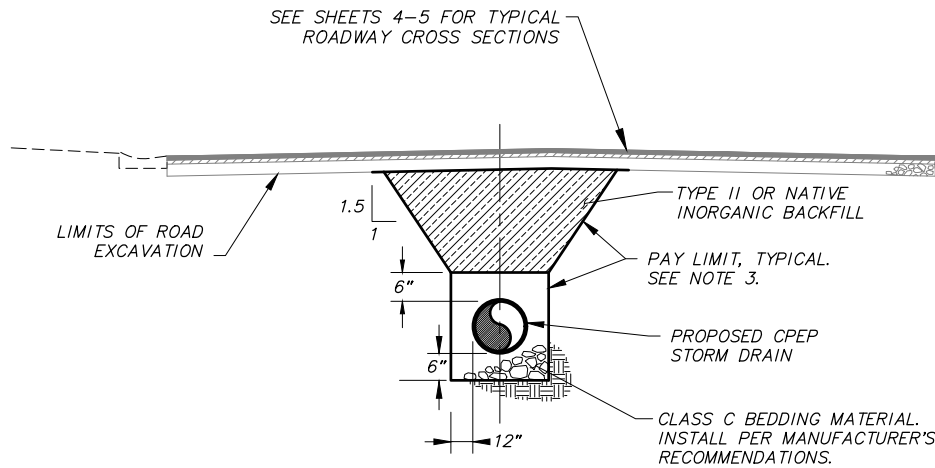
**REMOVE FIRE HYDRANT DETAIL NOTES:**

1. EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE AND OSHA REGULATIONS AND REQUIREMENTS.
2. UNLESS OTHERWISE NOTED NEW SINGLE PUMPER FIRE HYDRANT SHALL BE INSTALLED ON THE EXISTING FIRE HYDRANT LEG.
3. REMOVE AND REINSTALL EXISTING FIRE HYDRANT SIGN FOLLOWING INSTALLATION OF NEW HYDRANT.
4. HYDRANTS SHALL BE TIED TO THE VALVE.

1  
21

**REMOVE FIRE HYDRANT DETAIL**

SCALE: NOT TO SCALE



2  
21

**STORM DRAIN TRENCH SECTION**

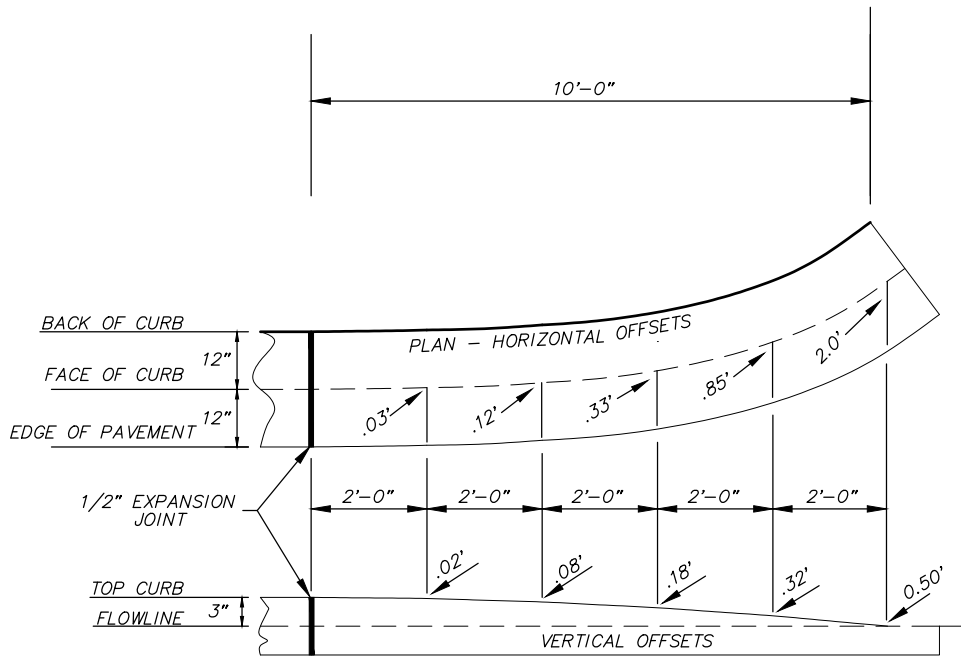
SCALE: NOT TO SCALE

**TYPICAL STORM DRAIN TRENCH SECTION NOTES**

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL ENCOUNTERED UTILITIES AND TO RECORD ANY CHANGES ON THE CONTRACTOR'S RECORD DRAWINGS.
2. PIPE LENGTHS ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN THE CENTER OF CONNECTING STRUCTURES OR FITTINGS. PIPE SLOPES ARE CALCULATED USING THE ACTUAL LENGTH OF PIPE FROM THE INSIDE FACE OF STRUCTURES. PIPE SLOPES ARE CALCULATED USING THE ACTUAL LENGTH OF PIPE FROM THE INSIDE FACE OF MANHOLES.
3. TRENCH WALL SLOPES SHALL VARY WITH SOIL STRENGTH CHARACTERISTICS AND SHALL CONFORM TO ALL APPLICABLE SAFETY STANDARD REQUIREMENTS. INDICATED SLOPE AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATION ONLY.
4. WATER LINES CROSSING STORM DRAINS REQUIRE A MINIMUM VERTICAL SEPARATION OF THREE (3) FEET. IF THIS MINIMUM CANNOT BE ATTAINED, THEN EXTRUDED POLY INSULATION (R20) IS REQUIRED BETWEEN THE LINES. EIGHTEEN (18) INCHES IS THE MINIMUM INSULATED SEPARATION DISTANCE. IF EIGHTEEN (18) INCHES CAN NOT BE OBTAINED, THE WATER LINE WILL HAVE TO BE RELOCATED, AS DETERMINED BY THE ENGINEER.
5. PLACE TRENCH FOUNDATION MATERIAL PER COV STANDARD DETAIL 20-12 WHERE NECESSARY, AS DETERMINED BY THE ENGINEER. DEPTH VARIES.
6. TRENCH SHOULD BE BACKFILLED WITH EXISTING INORGANIC NATIVE MATERIAL AS MUCH AS PRACTICAL ABOVE THE PIPE BEDDING AND BELOW THE ROAD STRUCTURAL SECTION.
7. WHERE WATER AND STORM DRAIN MAINS CROSS, STORM DRAIN MAIN JOINTS SHALL BE AT LEAST 9 FEET FROM WATER MAIN JOINTS.
8. DISPOSE UNUSABLE OR SURPLUS MATERIAL EXCAVATED FROM TRENCH TO A CONTRACTOR-FURNISHED DISPOSAL AREA, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

**NOTES:**

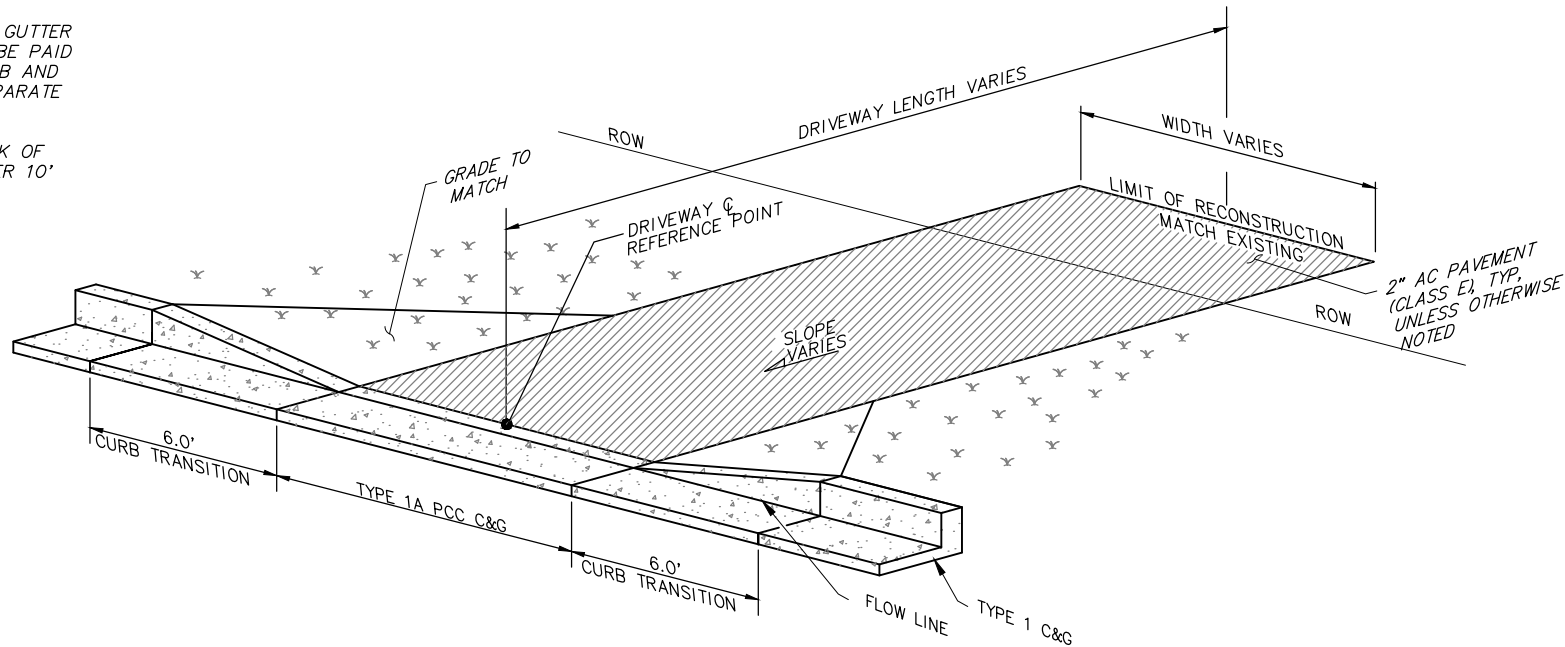
1. PAYMENT FOR TYPE 1 CURB AND GUTTER TERMINATION TRANSITION SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB AND GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
2. TRANSITION PAVEMENT FROM BACK OF CURB TO EDGE OF SHOULDER OVER 10'



3  
21

**CURB & GUTTER TERMINATION TRANSITION**

SCALE: NOT TO SCALE



4  
21

**DRIVEWAY DETAIL FOR TYPE 1 C&G**

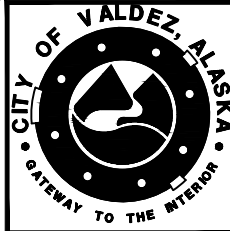
SCALE: NOT TO SCALE



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REV	DATE	DESCRIPTION	BY	



SCALE	HOR. N/A VER. N/A
DESIGNED BY	RLC
DRAWN BY	KY
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714

CITY OF VALDEZ, ALASKA  
WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER &  
SIDEWALK REPLACEMENT  
ROADWAY DETAILS

STATUS: FINAL

DATE: 04/19/2018

SCHEDULE A

PROJECT NO.  
20308.00

CITY GRID

WATER GRID

SEWER GRID

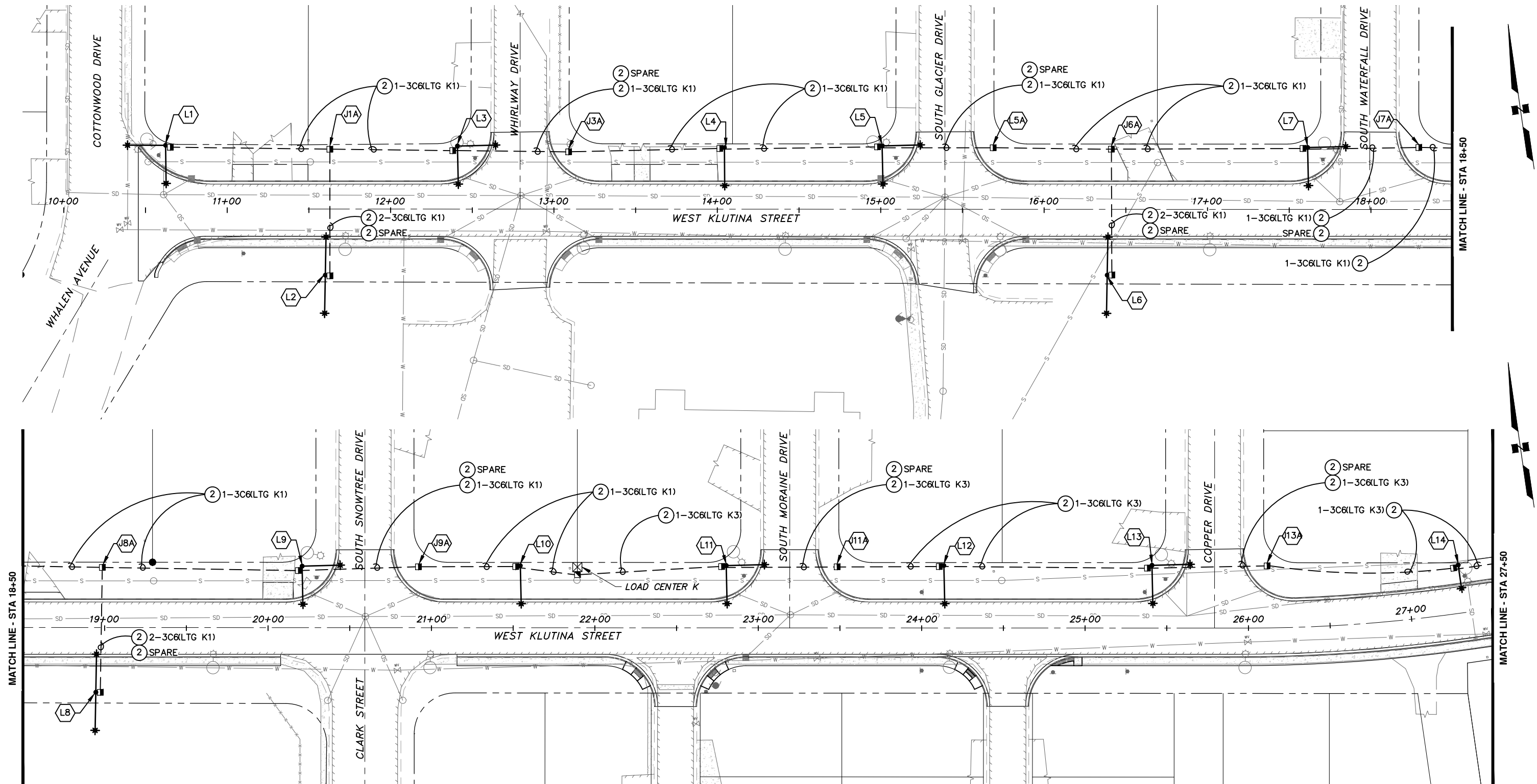
SHEET

21

OF

25

ILLUMINATION NOTES:  
1. SEE NOTES ON SHEET 23



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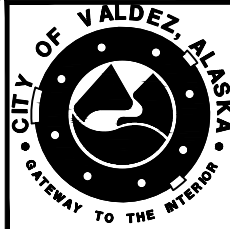


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#AECL882-AK

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SCALE
HOR. 1" = 30'
VER. N/A
DESIGNED BY
TRK
DRAWN BY
TRK
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714

CITY OF VALDEZ, ALASKA  
WEST KLUTINA - COTTONWOOD TO HAZELET  
REPAVE, GUTTER & SIDEWALK REPLACEMENT  
ILLUMINATION PLAN

BOP TO STA 27+50

STATUS: FINAL

DATE: 04/19/2018

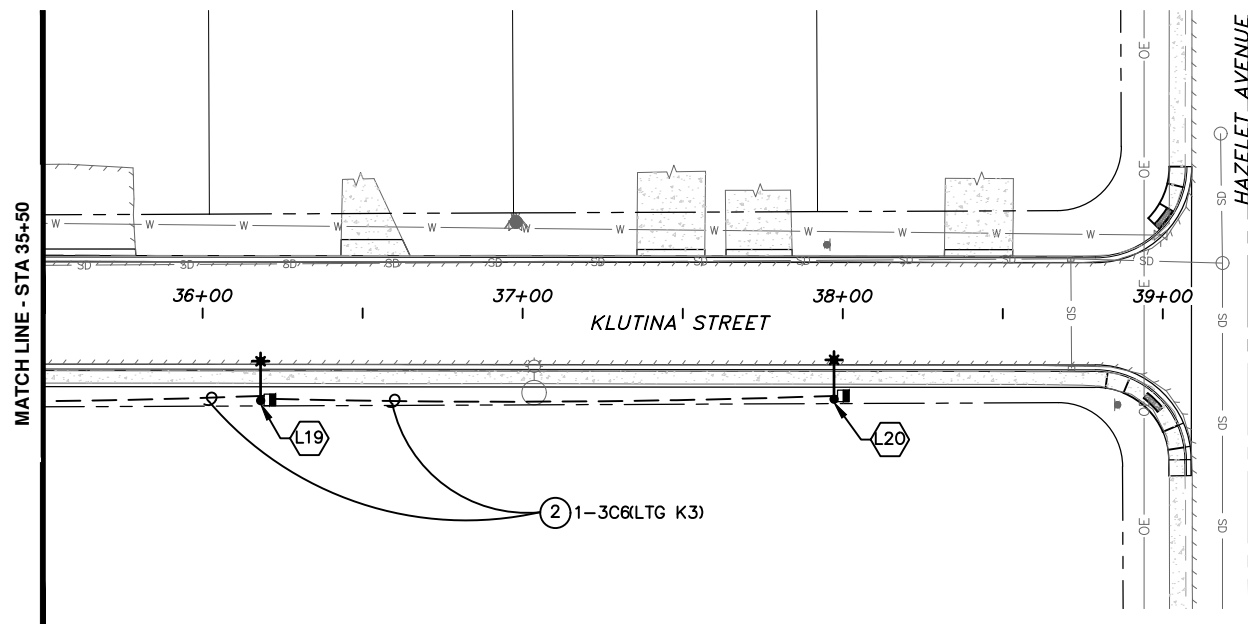
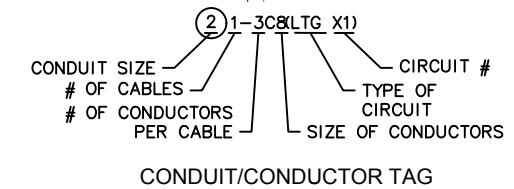
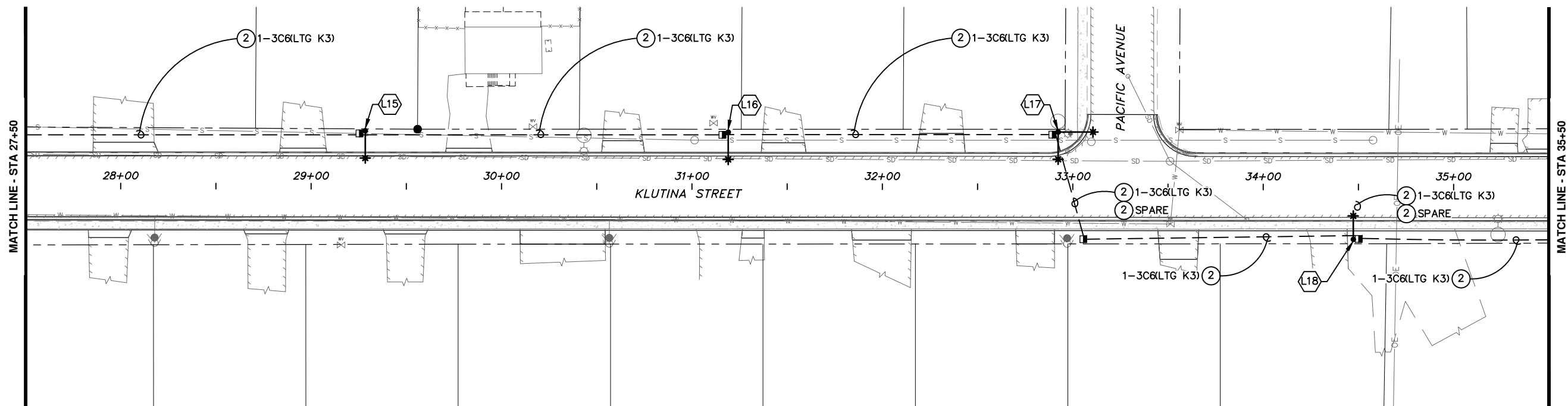
SCHEDULE B

PROJECT NO.  
20308.00

CITY GRID  
WATER GRID  
SEWER GRID

SHEET  
OF  
22  
25

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\03 Electrical\20308.00_ILLUMINATION.dwg



#### ILLUMINATION NOTES:

1. PROVIDE HOT DIP GALVANIZED STEEL POLES WITH MAST ARMS PER CVSS STANDARD DETAILS 80-19 AND 80-20, RESPECTIVELY.
2. ALL LUMINAIRE POLE FOUNDATIONS SHALL BE DRIVEN PILE UNLESS OTHERWISE NOTED ON THE DRAWINGS. LUMINAIRE POLE FOUNDATION SHALL BE LOCATED A MINIMUM OF 3 FEET FROM BACK OF SIDEWALK OR PATHWAY. WHEN POLE LOCATION IS WITHIN 10' OF A UTILITY, EXCAVATE A HOLE TO 12" BELOW ANTICIPATED UTILITIES DEPTH WITH A VACTOR TRUCK BEFORE DRIVING PILE. SEE CVSS STANDARD DETAIL 80-13.
3. INSTALL THE POLES WITH FIXED BASES PER CVSS STANDARD DETAIL 80-21.
4. LUMINAIRES APPROVED FOR SUBSTITUTION SHALL PROVIDE THE LIGHT LEVELS AND UNIFORMITIES INDICATED IN THE LIGHT LEVELS TABLE.
5. PROVIDE THE POLE SHAFT LENGTHS AND MAST ARM LENGTHS SHOWN IN THE POLE SCHEDULE.
6. PROVIDE 2 INCH RIGID METAL CONDUIT (RMC) WITH A BARE, STRANDED #8 AWG COPPER GROUND FOR ALL RACEWAYS.
7. PROVIDE ONE SPARE 2" RMC WITH PULL ROPE BETWEEN THE JUNCTION BOXES ADJACENT TO EVERY ROAD CROSSING.
8. PROVIDE A 3 CONDUCTOR CABLE FOR EACH BRANCH CIRCUIT. SIZE AS SHOWN ON THE DRAWINGS.
9. INSTALL THE JUNCTION BOX WITHIN 3' OF THE POLE OR LOAD CENTER. DO NOT INSTALL JUNCTION BOXES IN SIDEWALKS, PATHWAYS OR TRAILS. JUNCTION BOXES INSTALLED BEHIND SIDEWALKS, PATHWAYS OR TRAILS SHALL HAVE A MINIMUM SETBACK OF 2' AND BE PLACED BEHIND OR ON THE DOWN TRAFFIC SIDE OF FOUNDATIONS.
10. IN THE DRAWINGS, EACH JUNCTION BOX HAS THE SAME IDENTIFYING NUMBER AS THE LIGHT POLE OR LOAD CENTER NEXT TO IT. FOR JUNCTION BOXES LOCATED BETWEEN POLES, THE IDENTIFYING NUMBER INCLUDES THE SMALLER OF THE TWO POLE NUMBERS BETWEEN WHICH THE JUNCTION BOX IS LOCATED AND AN "A" SUFFIX.

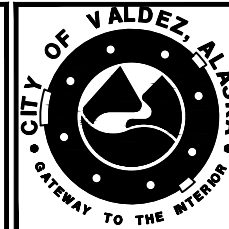


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GRAPHIC SCALE 0 30 60 90

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SCALE
HOR. 1" = 30'
VER. N/A
DESIGNED BY
TRK
DRAWN BY
TRK
CHECKED BY
PB
APPROVED BY
PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA	SCHEDULE B	PROJECT NO. 20308.00
WEST KLUTINA - COTTONWOOD TO HAZELET		CITY GRID	
REPAVE, GUTTER & SIDEWALK REPLACEMENT		WATER GRID	
ILLUMINATION PLAN		SEWER GRID	
27+50 TO EOP		SHEET 23	
STATUS: FINAL		DATE: 04/19/2018	
		OF 25	

File: J:\JobsData\20308.00 Valdez West Klutina Repave\00_CADD\01 Working Set\03 Electrical\20308.00 ILLUMINATION.dwg

LIGHT LEVELS TABLE						
LOCATION	<i>IES RP-8-14 REQUIRED</i> MIN. AVERAGE ILLUMINANCE (FC)	AVERAGE DESIGN ILLUMINANCE (FC)	<i>IES RP-8-14 REQUIRED</i> MAXIMUM UNIFORMITY RATIO	DESIGN UNIFORMITY RATIO	<i>IES RP-8-14 REQUIRED</i> MAX. VEILING LUMINANCE RATIO	DESIGN VEILING LUMINANCE RATIO
W KLUTINA STREET	0.4	0.7	6.0:1	3.5:1	0.4:1	0.2:1
COTTONWOOD DRIVE INTX.	0.8	1.1	6.0:1	1.9:1	N/A	N/A
WHIRLWAY DRIVE INTX.	0.8	0.9	6.0:1	3.1:1	N/A	N/A
S GLACIER DRIVE INTX.	0.8	1.0	6.0:1	2.1:1	N/A	N/A
S WATERFALL DRIVE INTX.	0.8	1.1	6.0:1	1.9:1	N/A	N/A
S SNOWTREE DRIVE INTX.	0.8	0.9	6.0:1	3.2:1	N/A	N/A
S MORaine DRIVE INTX.	0.8	1.1	6.0:1	1.9:1	N/A	N/A
COOPER DRIVE INTX.	0.8	1.0	6.0:1	3.5:1	N/A	N/A
PACIFIC DRIVE INTX.	0.8	1.1	6.0:1	2.8:1	N/A	N/A
SIDEWALKS	0.5	0.5	4.0:1	2.8:1	N/A	N/A
NOTES: 1. IES RP-8-14 REQUIREMENTS ARE FROM DCM CHAPTER 5 FOR A LOCAL ROADWAY WITH LOW PEDESTRIAN CONFLICT (MEDIUM DENSITY RESIDENTIAL). 2. FOR INTERSECTIONS, ALL ROADWAYS IN THE PROJECT AREA ARE CLASSIFIED AS LOCAL. 3. LIGHT LOSS FACTOR (LLF) = 0.88. 4. MOUNTING HEIGHTS ARE 30'.						

LUMINAIRE SCHEDULE											
TYPE	SYMBOL	MAKE	MODEL	# OF LED	CCT*	DISTRIBUTION	VOLTAGE	DRIVE CURRENT	COLOR	OPTIONS	MOUNT
ROADWAY		CREE	LEDWAY**	SEE POLE SCHEDULE	4000K	TYPE 2, MEDIUM	240V	525mA	SILVER	BACKLIGHT SHIELD, 7-PIN RECEPTACLE	MAST ARM
*CCT = CORRELATED COLOR TEMPERATURE, **SERIES E											

POLE SCHEDULE STREET LIGHTING						
POLE	STATION	OFFSET	SHAFT LENGTH	MAST ARM LENGTH	# OF LED	CIRCUIT
L1	10+62.3	39.50 LT	25'	22'	40	K1
				22'	40	K1
L2	11+60.1	42.00 RT	25'	22'	40	K1
				22'	40	K1
L3	12+40.9	39.50 LT	25'	22'	40	K1
				22'	40	K1
L4	14+04.3	38.50 LT	25'	22'	40	K1
				22'	40	K1
L5	15+00.8	39.50 LT	25'	22'	40	K1
				22'	40	K1
L6	16+38.6	42.00 RT	25'	22'	40	K1
				22'	40	K1
L7	17+61.2	38.50 LT	25'	22'	40	K1
				22'	40	K1
L8	18+94.6	41.50 RT	25'	22'	40	K1
				22'	40	K1
L9	20+20.8	38.00 LT	25'	22'	40	K1
				22'	40	K1
L10	21+54.4	38.50 LT	25'	22'	40	K1
L11	22+80.4	38.50 LT	25'	22'	40	K3
				22'	40	K3
L12	24+13.6	38.50 LT	25'	22'	40	K3
				22'	40	K3
L13	25+41.0	38.50 LT	25'	22'	40	K3
				22'	40	K3
L14	27+32.9	29.00 LT	26'	13'	60	K3
L15	29+28.4	29.00 LT	26'	13'	60	K3
L16	31+19.0	28.50 LT	26'	13'	60	K3
L17	32+92.3	29.00 LT	25'	13'	40	K3
				17*	40	K3
L18	34+27.3	27.50 RT	27'	11'	60	K3
L19	36+18.1	27.50 RT	27'	11'	60	K3
L20	37+97.3	27.00 RT	27'	11'	60	K3

* EAST MAST ARM

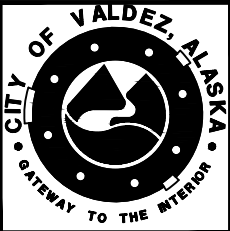
JUNCTION BOX TABLE				
J-BOX	TYPE	CIRCUITS	STATION	OFFSET
J1A	1A	K1	11+62.9	37.00 LT
J3A	1A	K1	13+09.0	35.50 LT
J5A	1A	K1	15+68.8	38.00 LT
J6A	1A	K1	16+39.1	39.00 LT
J7A	1A	K1	13+29.3	38.50 LT
J8A	1A	K1	18+98.6	37.50 LT
J9A	1A	K1	20+92.0	37.50 LT
J11A	1A	K3	23+48.3	37.50 LT
J13A	1A	K3	26+12.1	38.00 LT
J17A	1A	K3	33+05.5	27.50 RT
NOTE: JUNCTION BOX NOT ASSOCIATED WITH A LIGHT POLE OR LOAD CENTER ARE SHOWN IN THIS TABLE.				



3940 ARCTIC BLVD, SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AECL882-AK

REVISION			
REV	DATE	DESCRIPTION	BY

REVISION			
REV	DATE	DESCRIPTION	BY



SCALE HOR. N/A VER. N/A
DESIGNED BY TRK
DRAWN BY TRK
CHECKED BY PB
APPROVED BY PB

PROJECT NO: 17-350-1714	CITY OF VALDEZ, ALASKA WEST KLUTINA - COTTONWOOD TO HAZELET REPAVE, GUTTER & SIDEWALK REPLACEMENT ILLUMINATION SCHEDULES & TABLES	SCHEDULE B
STATUS: FINAL		DATE: 04/19/2018

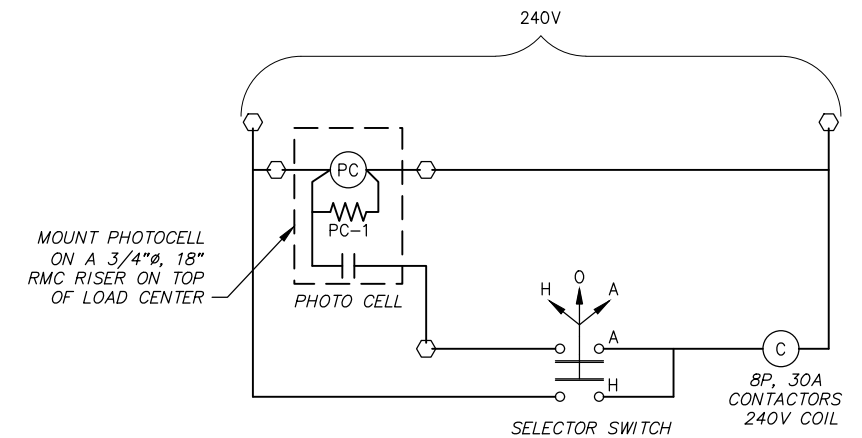
PROJECT NO. 20308.00
CITY GRID
WATER GRID
SEWER GRID
SHEET 24
OF 25

PANEL A	100	AMPS MAIN LUGS,	120/240	VOLTS	SINGLE	PHASE	3	WIRE
				10,000		AMPS INTERRUPT	CAPACITY	

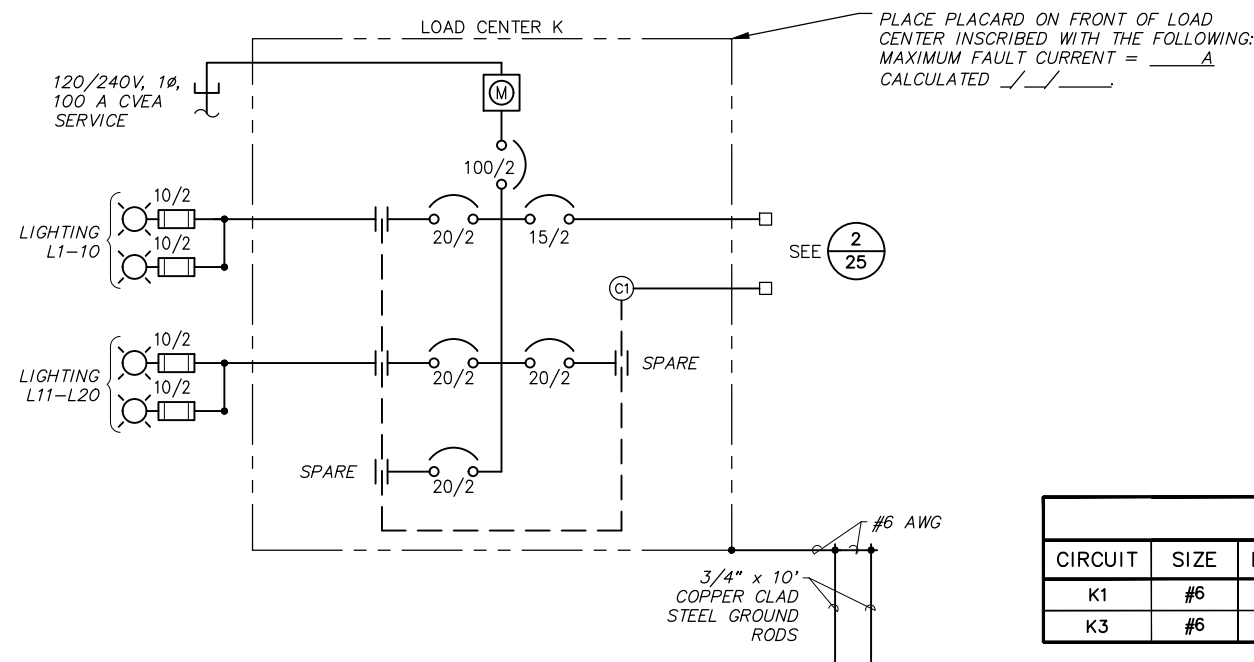
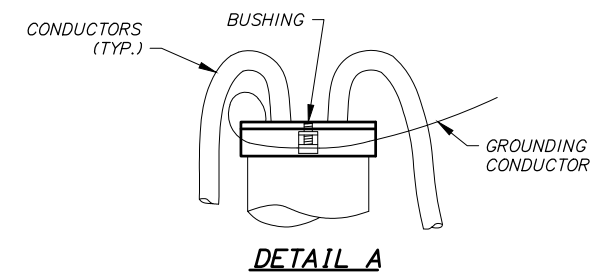
[illegible]

TOTAL CONNECTED LOAD = 2.6 KVA  
TOTAL AMPS = 10.8 A

1. PLACARDS FOR LOAD CENTERS SHALL HAVE SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTACT ENGINEER PRIOR TO ORDER OF PLACARD TO VERIFY MAXIMUM FAULT CURRENT.
2. LABEL THE FRONT WITH 3M SCOTCH CAL REFLECTIVE DECALS NOTING OWNERSHIP: COV, PURPOSE: LU (ILLUMINATION) AND THE VOLTAGE.
3. PROVIDE ARC FLASH WARNING LABELS WITH INCIDENT ENERGY VALUES AND PERSONAL PROTECTIVE EQUIPMENT (PPE) ON EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.16 AND NFPA 70E. CONTACT ENGINEER BEFORE ORDERING LABELS FOR VALUES.

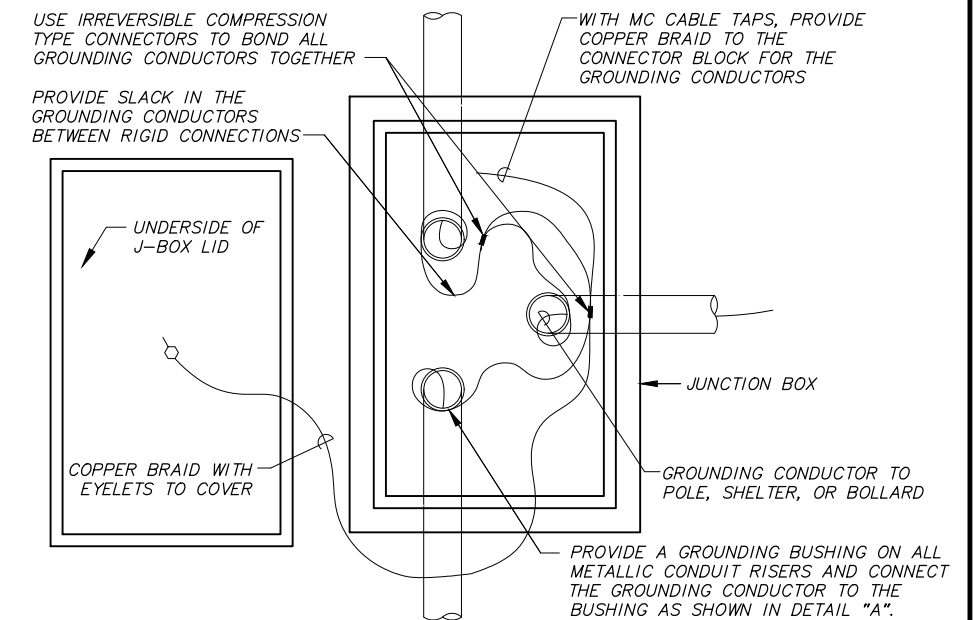


2 LOAD CENTER LIGHTING CONTROL SCHEMATIC  
NTS



1 LOAD CENTER "K" POWER ONE-LINE  
NTS

VOLTAGE DROP					
CIRCUIT	SIZE	LENGTH	VOLTAGE	CURRENT	V.D.
K1	#6	1590	240V	5.2	2.98%
K3	#6	1690	240V	4.6	3.03%



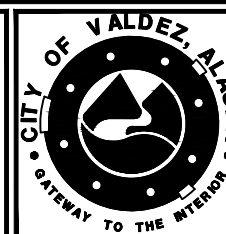
3 JUNCTION BOX GROUNDING DETAIL

NTS

ONLY GROUNDING  
CONDUCTORS ARE SHOWN  
FOR CLARITY



3940 ARCTIC BLVD. SUITE 300  
ANCHORAGE, ALASKA 99503  
PHONE: (907) 562-3252  
#AFCI882-AK

[illegible][illegible]

SCALE	HOR. N/A VER. N/A
DESIGNED BY	TRK
DRAWN BY	TRK
CHECKED BY	PB
APPROVED BY	PB

PROJECT NO: 17-350-1714

0-1714

CITY OF VALDEZ, ALASKA

WEST KLUTINA — COTTONWOOD TO HAZELET  
REPAVE, GUTTER & SIDEWALK REPLACEMENT  
LOAD CENTER POWER ONE—LINE,  
PANEL SCHEDULE & DETAILS

STATUS: FINAL

DATE: 04/19/2018

SCHEDULE B	PROJECT NO.	20308.00
	CITY GRID	
	WATER GRID	
	SEWER GRID	
	SHEET	25
	OF	25