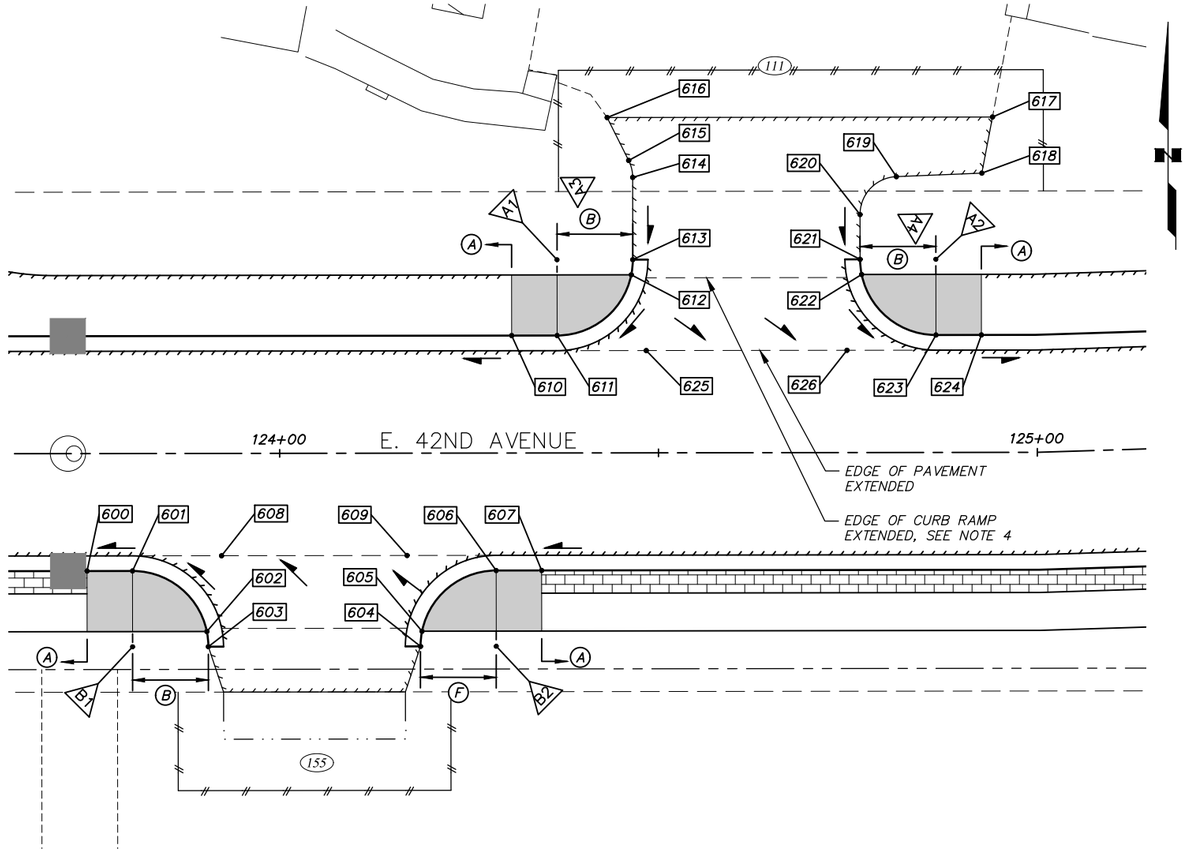

NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE BETWEEN EDGE OF PAVEMENT EXTENDED AND EDGE OF CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. LIP OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF PAVEMENT.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- PCC CURB RAMP
- COLORED CONCRETE (RED, 4" THICK, IMPRINTED)

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(F)	TYPE 3A CURB

☐ POINT SUMMARY – PARCEL 155

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT*		DESCRIPTION
							LENGTH (FT)	SLOPE (%)	
600	123+74.56	15.5 RT	155.89	1	155.49	–	6.00	0.17%	BEGIN RAMP
601	123+80.56	15.5 RT	155.48	1A	155.50	–	16.43	1.58%	PC, END RAMP, BEGIN LANDING
602	123+90.35	23.5 RT	155.74	1A	155.76	–	2.42	1.65%	END LANDING
603	123+90.56	25.5 RT	155.78	1A	155.80	–	–	–	PT
604	124+18.56	25.5 RT	155.96	3A	155.88	–	2.42	−0.41%	PC
605	124+18.76	23.5 RT	155.95	3A	155.87	–	16.43	−0.43%	BEGIN LANDING
606	124+28.56	15.5 RT	155.88	3A	155.80	–	6.00	0.67%	PT, END LANDING, BEGIN RAMP
607	124+34.56	15.5 RT	156.24	1	155.84	–	–	–	END RAMP
608	123+92.31	13.5 RT	–	–	–	155.57	–	–	EDGE OF PAVEMENT EXTENDED
609	124+16.80	13.5 RT	–	–	–	155.73±	–	–	EDGE OF PAVEMENT EXTENDED

* LENGTH & SLOPE TO NEXT POINT IS ALONG LIP OF CURB

☐ POINT SUMMARY – PARCEL 111

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT*		DESCRIPTION
							LENGTH (FT)	SLOPE (%)	
610	124+30.64	15.5 LT	156.22	1	155.82	–	6.00	0.67%	BEGIN RAMP
611	124+36.64	15.5 LT	155.84	1A	155.86	–	16.43	1.16%	PC, END RAMP, BEGIN LANDING
612	124+46.44	23.5 LT	156.03	1A	156.05	–	2.42	2.07%	END LANDING
613	124+46.64	25.5 LT	156.08	1A	156.10	–	–	–	PT
614	124+46.64	36.4 LT	–	–	–	156.38	–	–	PC, EDGE OF PAVEMENT
615	124+46.12	38.6 LT	–	–	–	156.44	–	–	PT, EDGE OF PAVEMENT
616	124+43.29	44.3 LT	–	–	–	156.59	–	–	EDGE OF PAVEMENT, MATCH EXISTING
617	124+94.14	44.3 LT	–	–	–	156.75	–	–	EDGE OF PAVEMENT, MATCH EXISTING
618	124+92.73	36.9 LT	–	–	–	156.75	–	–	EDGE OF PAVEMENT, MATCH EXISTING
619	124+81.45	36.4 LT	–	–	–	156.27	–	–	PC, EDGE OF PAVEMENT
620	124+76.64	31.4 LT	–	–	–	156.20	–	–	PT, EDGE OF PAVEMENT
621	124+76.64	25.5 LT	155.93	1A	155.95	–	2.42	−1.24%	PC
622	124+76.85	23.5 LT	155.90	1A	155.92	–	16.43	−1.40%	BEGIN LANDING
623	124+86.64	15.5 LT	155.67	1A	155.69	–	6.00	−0.67%	PT, END LANDING, BEGIN RAMP
624	124+92.64	15.5 LT	156.05	1	155.65	–	–	–	END RAMP
625	124+48.40	13.5 LT	–	–	–	155.91	–	–	EDGE OF PAVEMENT EXTENDED
626	124+74.89	13.5 LT	–	–	–	155.77±	–	–	EDGE OF PAVEMENT EXTENDED

* LENGTH & SLOPE TO NEXT POINT IS ALONG LIP OF CURB

△ CURB/EOP RADIUS TABLE

POINT	TBC/EOP RADIUS POINT		RADIUS (FT)	DESCRIPTION
	STATION	OFFSET (FT)		
A1	124+36.64	25.5 LT	10.0	PARCEL 111
A2	124+86.64	25.5 LT	10.0	PARCEL 111
A3	124+41.64	36.4 LT	5.0	PARCEL 111
A4	124+81.64	31.4 LT	5.0	PARCEL 111
B1	123+80.56	25.5 RT	10.0	PARCEL 155
B2	124+28.56	25.5 RT	10.0	PARCEL 155

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	
DESIGN	CRW BOOK No. 197, 198 & 201
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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CONSULTANT

STATE OF ALASKA 49 TH
Robert W. Burdick
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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED A

DRIVEWAY LAYOUT

PARCEL 111 & 155

SCALE HOR. 1"=10' VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET R28 of R28

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Driveway Reconstruction Plan_Phase 1.dwg

20.28

RECONSTRUCT DRIVEWAY

SHEET	PARCEL	CENTERLINE REFERENCE		DRIVEWAY WIDTH AT CURB OR EDGE OF PAVEMENT (FT)	DRIVEWAY WIDTH AT ROW (FT)	CURB CUT TYPE	RADIUS (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	SURFACE TYPE ON PROPERTY	L1 (FT)	L2 (FT)	CONSTRUCT PER DETAIL	REMARKS
		STATION	OFFSET															
SD1	100 WEST	301+94.7	RT	24	24	N/A	10	90	N/A	N/A	20.0	3.9%	3.8%	ASPHALT	N/A	N/A	DETAIL 3, SHEET D4	
SD1	100 EAST	304+85.7	RT	26	26	N/A	10	90	N/A	N/A	20.0	0.0%	−0.4%	ASPHALT	N/A	N/A	DETAIL 3, SHEET D4	
R1	172	101+67.4	RT	34	VARIES	TYPE 4	N/A	90	5.0	−1.0%	38.7	−4.8%	VARIES	ASPHALT	7.0	6.0	DETAIL 1, SHEET D3	SEE DRIVEWAY PLAN & PROFILE SHEET R10 & DRIVEWAY LAYOUT SHEET R22
R1	101 WEST	101+67.4	LT	34	VARIES	TYPE 4	N/A	−90	8.0	−1.0%	47.2	−3.5%	VARIES	ASPHALT	7.0	6.0	DETAIL 1, SHEET D3	SEE DRIVEWAY PLAN & PROFILE SHEET R10 & DRIVEWAY LAYOUT SHEET R22
R1	171 / 172	102+48.4	RT	28	VARIES	TYPE 4	N/A	90	5.0	−1.0%	57.2	−8.3%	VARIES	ASPHALT	6.0	6.0	DETAIL 1, SHEET D3	SEE DRIVEWAY PLAN & PROFILE SHEET R11 & DRIVEWAY LAYOUT SHEET R22
R1	170	103+20.9	RT	11	11	TYPE 4	N/A	90	5.0	1.0%	22.5	−6.2%	VARIES	ASPHALT	6.0	6.0	DETAIL 1, SHEET D3	SEE DRIVEWAY PLAN & PROFILE SHEET R11 & DRIVEWAY LAYOUT SHEET R22
R1	101 EAST	103+29.0	LT	28	VARIES	TYPE 4	N/A	−90	8.0	−1.0%	39.9	−5.9%	VARIES	ASPHALT	6.0	7.0	DETAIL 1, SHEET D3	SEE DRIVEWAY PLAN & PROFILE SHEET R12 & DRIVEWAY LAYOUT SHEET R22
R1	102 WEST	103+92.4	LT	23	23	N/A	10	−90	9.6	2.0%	32.3	3.3%	2.1%	ASPHALT	6.0	8.0	DETAIL 1, SHEET D4	SEE INTERSECTION LAYOUT SHEET R24
R1	169	104+44.0	RT	24	24	TYPE 4	N/A	90	5.0	1.5%	13.0	−1.2%	−1.8%	ASPHALT	5.0	8.0	DETAIL 1, SHEET D3	
R1	102 EAST	105+60.6	LT	26	26	N/A	15	−90	8.5	1.3%	24.0	3.9%	1.3%	ASPHALT	N/A	N/A	–	SEE INTERSECTION LAYOUT SHEET R25
R1	167	105+98.8	RT	25.5	25.5	TYPE 2	N/A	90	5.0	2.0%	24.0	14.5%	13.1%	ASPHALT	5.0	8.0	DETAIL 1, SHEET D3	
R2	166	108+56.8	RT	26	26	TYPE 4	N/A	90	5.0	1.0%	18.0	−6.5%	−4.1%	ASPHALT	5.0	9.0	DETAIL 1, SHEET D3	
R2	165	109+28.3	RT	24	24	TYPE 4	N/A	90	12.0	1.5%	26.6	−10.6%	−3.6%	ASPHALT	5.0	8.0	DETAIL 1, SHEET D3	
R2	164	111+15.9	RT	28	37.4	TYPE 4	N/A	90	5.0	1.5%	24.5	0.6%	2.7%	ASPHALT	6.0	6.0	DETAIL 1, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R26
R2	163	111+98.1	RT	71	82.7	TYPE 4	N/A	90	5.0	1.5%	24.5	1.2%	3.8%	ASPHALT	7.0	6.0	DETAIL 1, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R26
R2	161 WEST	114+69.1	RT	18	18	TYPE 4	N/A	90	8.0	1.5%	14.5	2.5%	4.0%	ASPHALT	6.0	7.0	DETAIL 3, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R27
R3	161 CENTER	115+52.0	RT	21	21	N/A	10	90	9.6	1.4%	25.0	1.0%	0.7%	ASPHALT	6.0	6.0	DETAIL 2, SHEET D4	SEE DRIVEWAY LAYOUT SHEET R27
R3	161 EAST	116+42.7	RT	17	17	TYPE 4	N/A	90	8.0	1.5%	20.3	0.4%	3.9%	ASPHALT	6.0	7.0	DETAIL 3, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R27
R3	106	117+11.4	LT	22	22	TYPE 2	N/A	−90	8.0	2.0%	22.1	4.8%	6.7%	GRAVEL	4.0	5.0	DETAIL 2, SHEET D3	
R3	160	117+77.6	RT	16.5	16.5	TYPE 4	N/A	90	12.0	1.0%	21.2	1.4%	1.0%	ASPHALT	9.0	–	DETAIL 3, SHEET D3	SHARED CURB CUT WITH PARCEL 159
R3	159 WEST	118+00.1	RT	17.5	17.5	TYPE 4	N/A	90	14.5	1.0%	24.5	−0.8%	1.7%	GRAVEL	–	6.0	DETAIL 3, SHEET D3	SHARED CURB CUT WITH PARCEL 160
R3	159 EAST	118+55.0	RT	10	10	TYPE 4	N/A	90	8.0	2.0%	22.0	−0.8%	3.8%	GRAVEL	7.0	6.0	DETAIL 3, SHEET D3	
R3	158	119+43.7	RT	26	26	TYPE 4	N/A	90	12.0	1.5%	31.1	1.5%	1.5%	GRAVEL	6.0	8.0	DETAIL 3, SHEET D3	
R3	107	119+47.3	LT	12	12	TYPE 4	N/A	−90	12.9	2.0%	26.5	2.7%	VARIES	GRAVEL	6.0	8.0	DETAIL 2, SHEET D3	SEE DRIVEWAY PLAN & PROFILE SHEET R12
R3	108	121+18.7	LT	70	70	TYPE 2	N/A	−90	8.0	2.0%	29.5	9.3%	7.4%	GRAVEL	5.0	6.0	DETAIL 2, SHEET D3	
R4	157 EAST	121+60.3	RT	35	N/A	TYPE 2	N/A	90	5.0	1.5%	16.4	7.7%	7.3%	ASPHALT	6.0	–	DETAIL 1, SHEET D3	SEE INTERSECTION LAYOUT SHEET R19
R4	109	122+18.9	LT	20	20	TYPE 4	N/A	−90	8.0	1.5%	18.5	1.6%	3.0%	ASPHALT	–	6.0	DETAIL 2, SHEET D3	SEE INTERSECTION LAYOUT SHEET R19
R4	110	123+31.9	LT	12	12	TYPE 4	N/A	−90	11.0	2.0%	23.9	3.7%	6.1%	ASPHALT	6.0	6.0	DETAIL 4, SHEET D3	
R4	156	123+42.9	RT	28	28	TYPE 4	N/A	90	8.0	1.5%	23.1	1.4%	2.6%	ASPHALT	6.0	6.0	DETAIL 3, SHEET D3	
R4	155	124+04.6	RT	24	24	N/A	10	90	10.0	2.0%	24.2	4.5%	6.3%	GRAVEL	6.0	6.0	DETAIL 1, SHEET D4	SEE DRIVEWAY LAYOUT SHEET R28
R4	111	124+60.6	LT	26	31	N/A	10	−90	9.6	1.2%	30.8	0.8%	1.0%	ASPHALT	6.0	6.0	DETAIL 1, SHEET D4	SEE DRIVEWAY LAYOUT SHEET R28

RECONSTRUCT DRIVEWAY NOTES:

1. *BEGIN TRANSITION TO EXISTING DRIVEWAY WIDTH AT ROW LINE.*
2. *"LANDING LENGTH" BEGINS AT THE BACK OF CURB & GUTTER OR LIP OF CURB EXTENDED (IF THERE IS NO CURB & GUTTER).*
3. *"LANDING GRADE" IS THE GRADE OF THE LANDING FROM THE BACK OF CURB & GUTTER OR LIP OF CURB EXTENDED (IF THERE IS NO CURB & GUTTER) TO THE END OF LANDING.*
4. *"SKEW ANGLE" ("+" IS CLOCKWISE AND "−" IS COUNTER CLOCKWISE) IS MEASURED FROM PROJECT CENTERLINE WITH 0 DEGREES ALIGNED ALONG INCREASING STATIONS.*
5. *"TOTAL DISTANCE" IS THE LIMIT OF RECONSTRUCTION BEGINNING AT THE BACK OF CURB & GUTTER OR LIP OF CURB & GUTTER EXTENDED (IF THERE IS NOT CURB & GUTTER).*
6. *"PROPOSED GRADE" IS APPROXIMATE GRADE FROM THE END OF THE LANDING TO THE LIMIT OF RECONSTRUCTION. ACTUAL CONSTRUCTION GRADE MAY VARY.*
7. *SEE SHEET T2 FOR RECONSTRUCT DRIVEWAY SUMMARY TABLE CONTINUED.*

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

CRW ENGINEERING GROUP, LLC
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED A

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET T1 of T5

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Summary Tables_Phase 1.dwg

20.28

RECONSTRUCT DRIVEWAY (CONTINUED)

SHEET	PARCEL	CENTERLINE REFERENCE		DRIVEWAY WIDTH AT CURB OR EDGE OF PAVEMENT (FT)	DRIVEWAY WIDTH AT ROW (FT)	CURB CUT TYPE	RADIUS (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	SURFACE TYPE ON PROPERTY	L1 (FT)	L2 (FT)	CONSTRUCT PER DETAIL	REMARKS
		STATION	OFFSET															
R5	103 WEST	12+54.9	RT	36	36	TYPE 2	N/A	90	5.0	1.5%	15.0	6.5%	5.6%	ASPHALT	N/A	N/A	DETAIL 1, SHEET D3	LAUREL STREET
R5	103 EAST	20+51.7	LT	34	34	N/A	N/A	−86	N/A	N/A	11.6	−8.7%	−8.1%	ASPHALT	N/A	N/A	DETAIL 3, SHEET D4	HICKORY PLACE
R6	104	33+94.1	LT	20	20	N/A	10	−90	9.6	1.0%	31.2	4.3%	7.4%	ASPHALT	5.0	N/A	DETAIL 2, SHEET D4	FOLKER STREET, SEE INTERSECTION LAYOUT SHEET R26
R7	106 EAST	45+52.3	LT	25	25	N/A	N/A	−82	N/A	N/A	11.8	2.5%	3.4%	ASPHALT	N/A	N/A	DETAIL 3, SHEET D4	BRANTLEY PLACE
R7	157 WEST	52+54.4	RT	22.5	N/A	N/A	N/A	90	N/A	N/A	8.3	16.0%	14.2%	ASPHALT	N/A	N/A	DETAIL 3, SHEET D4	WRIGHT STREET

30.02

P.C.C. CURB AND GUTTER (ALL TYPES)

SHEET	STATION TO STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R1	99+78.1 TO 108+00	LT	1018	INCLUDES SIDE STREETS, DRIVEWAYS, & MEDIAN
R1	100+86.7 TO 108+00	RT	890	INCLUDES SIDE STREETS, DRIVEWAYS, & MEDIAN
R2	108+00.0 TO 115+00	LT	928	INCLUDES SIDE STREETS & DRIVEWAYS
R2	108+00.0 TO 115+00	RT	787	INCLUDES SIDE STREETS & DRIVEWAYS
R3	115+00.0 TO 121+50.0	LT	665	INCLUDES SIDE STREETS & DRIVEWAYS
R3	115+00.0 TO 121+50.0	RT	676	INCLUDES SIDE STREETS & DRIVEWAYS
R4	121+50.0 TO 127+80.9	LT	604	INCLUDES SIDE STREETS & DRIVEWAYS
R4	121+50.0 TO 127+80.9	RT	655	INCLUDES SIDE STREETS & DRIVEWAYS

PCC CURB & GUTTER (ALL TYPES) NOTES:

1. *SEE INTERSECTION LAYOUT SHEETS AND DRIVEWAY RECONSTRUCTION SHEETS R13–R28 FOR LOCATIONS AND TYPES OF CURB AND GUTTER.*
2. *SEE 20.28 RECONSTRUCT DRIVEWAY TABLE FOR LOCATIONS OF DRIVEWAY CURB CUTS.*

30.02

P.C.C. CURB AND GUTTER (TYPE 1, STEEL CURB FACING)

SHEET	BEGIN STATION	OFFSET (FT)	END STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R1	105+46.21	15.5 RT	105+76.21	13.0 RT	30.1	
R1	106+29.96	15.5 LT	106+59.96	13.0 LT	30.1	
R1	107+57.68	13.0 LT	107+87.68	15.5 LT	30.1	
R1	107+57.68	13.0 RT	107+87.68	15.5 RT	30.1	
R3	119+52.17	15.5 RT	119+82.17	13.0 RT	30.1	
R3	119+52.17	15.5 LT	119+82.17	13.0 LT	30.1	
R4	122+47.99	13.0 LT	122+77.99	15.5 LT	30.1	
R4	122+47.99	13.0 RT	122+77.99	15.5 RT	30.1	
R8	72+29.48	16.5 LT	72+54.48	13.5 LT	25.2	PIPER STREET
R8	72+29.48	22.0 RT	72+54.48	13.5 RT	26.4	PIPER STREET
R8	73+45.60	13.5 LT	73+70.60	16.5 LT	25.2	PIPER STREET
R8	73+45.60	13.5 RT	73+70.60	22.0 RT	26.4	PIPER STREET

P.C.C. CURB AND GUTTER (TYPE 1, STEEL CURB FACING) NOTES:

1. *SEE DETAIL 3, SHEET D5 FOR STEEL CURB FACING DETAIL.*

RECONSTRUCT DRIVEWAY NOTES:

1. *BEGIN TRANSITION TO EXISTING DRIVEWAY WIDTH AT ROW LINE.*
2. *"LANDING LENGTH" BEGINS AT THE BACK OF CURB & GUTTER OR LIP OF CURB EXTENDED (IF THERE IS NO CURB & GUTTER).*
3. *"LANDING GRADE" IS THE GRADE OF THE LANDING FROM THE BACK OF CURB & GUTTER OR LIP OF CURB EXTENDED (IF THERE IS NO CURB & GUTTER) TO THE END OF LANDING.*
4. *"SKEW ANGLE" ("+" IS CLOCKWISE AND "−" IS COUNTER CLOCKWISE) IS MEASURED FROM PROJECT CENTERLINE WITH 0 DEGREES ALIGNED ALONG INCREASING STATIONS.*
5. *"TOTAL DISTANCE" IS THE LIMIT OF RECONSTRUCTION BEGINNING AT THE BACK OF CURB & GUTTER OR LIP OF CURB & GUTTER EXTENDED (IF THERE IS NOT CURB & GUTTER).*
6. *"PROPOSED GRADE" IS APPROXIMATE GRADE FROM THE END OF THE LANDING TO THE LIMIT OF RECONSTRUCTION. ACTUAL CONSTRUCTION GRADE MAY VARY.*

SIDEWALK/PATHWAY TRANSITION SUMMARY

SHEET	PC		RADIUS 1 (FT)	PRC		RADIUS 2 (FT)	PT		REMARKS
	STATION	OFFSET (FT)		STATION	OFFSET (FT)		STATION	OFFSET (FT)	
R2	113+91.57	28.17 RT	20	114+13.83	21.59 RT	35	114+25.23	23.50 RT	FOLKER STREET – SOUTHEAST
R3	116+63.45	23.50 RT	35	116+75.39	21.40 RT	15	116+92.35	26.30 RT	ROSON COURT – SOUTHWEST
R3	117+30.67	26.30 RT	15	117+47.63	21.40 RT	35	117+59.57	23.50 RT	ROSON COURT – SOUTHEAST
R3	119+69.18	22.11 RT	35	119+79.74	19.54 RT	20	120+03.13	25.61 RT	WRIGHT STREET – SOUTHWEST
R3	121+16.41	21.00 RT	35	121+26.55	19.50 RT	35	121+36.69	18.00 RT	PARCEL 157
R4	122+31.15	23.80 RT	15	122+48.97	19.25 RT	35	122+60.03	22.03 RT	PARKER PLACE SOUTHEAST
R4	122+93.68	23.50 LT	35	123+03.82	25.00 LT	35	123+13.96	26.50 LT	PARCEL 110
R4	123+49.96	26.50 LT	35	123+60.09	25.00 LT	35	123+70.23	23.50 LT	PARCEL 110

SIDEWALK/PATHWAY TRANSITION SUMMARY NOTES:

1. *SEE SHEET D6, DETAIL 3.*

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D–22	162.47
CB 7B	See MOA Benchmark Book, Page D–18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
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CONSULTANT

STATE OF ALASKA – 49 TH – Robert W. Burdick CE-123959 – REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18–06 — 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET — SCHED A

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET T2 of T5

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Summary Tables_Phase 1.dwg

30.03

P.C.C. SIDEWALK

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R1	307+09.6	50.6 LT	307+09.4	14.3 LT	36		LAKE OTIS PARKWAY
R1	100+85.5	50.2 LT	100+87.7	34.5 LT	14		
R1	100+86.7	52.0 RT	100+87.2	39.7 RT	12		
R1	100+98.7	21.5 RT	101+43.4	15.5 RT	29		
R1	101+43.4	15.5 RT	101+90.4	15.5 RT		26	PARCEL 172 DRIVEWAY
R1	101+90.4	15.5 RT	102+28.4	15.5 RT	21		
R1	102+28.4	15.5 RT	102+68.4	15.5 RT		22	PARCEL 171/172 DRIVEWAY
R1	102+68.4	15.5 RT	103+09.3	15.5 RT	23		
R1	103+09.3	15.5 RT	103+32.3	15.5 RT		13	PARCEL 170 DRIVEWAY
R1	103+32.3	15.5 RT	104+27.0	15.5 RT	53		
R1	104+27.0	15.5 RT	104+64.0	15.5 RT		21	PARCEL 169 DRIVEWAY
R1	104+64.0	15.5 RT	105+81.2	13.0 RT	65		
R1	105+81.2	13.0 RT	106+19.7	13.0 RT		21	PARCEL 167 DRIVEWAY
R1	106+19.7	13.0 RT	106+70.3	14.4 RT	28		
R1	107+45.8	13.3 RT	108+00.0	15.5 RT	30		
R2	108+00.0	15.5 RT	108+38.8	15.5 RT	22		
R2	108+38.8	15.5 RT	108+78.8	15.5 RT		22	PARCEL 166 DRIVEWAY
R2	108+78.8	15.5 RT	109+11.3	15.5 RT	18		
R2	109+11.3	15.5 RT	109+48.3	15.5 RT		21	PARCEL 165 DRIVEWAY
R2	109+48.3	15.5 RT	110+95.9	15.5 RT	82		
R2	110+95.9	15.5 RT	111+35.9	15.5 RT		22	PARCEL 164 DRIVEWAY
R2	111+35.9	15.5 RT	111+55.6	15.5 RT	11		
R2	111+55.6	15.5 RT	112+39.6	15.5 RT		47	PARCEL 163 DRIVEWAY
R2	112+39.6	15.5 RT	113+40.6	17.3 RT	56		
R2	113+99.1	16.9 RT	114+52.0	18.5 RT	32		
R2	114+52.0	18.5 RT	114+86.0	18.5 RT		19	PARCEL 161 WEST DRIVEWAY
R2	114+86.0	18.5 RT	115+00.0	18.5 RT	8		

30.03

P.C.C. SIDEWALK (CONTINUED)

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R3	115+00.0	18.5 RT	115+23.6	18.5 RT	13		
R3	115+27.9	23.5 LT	115+35.9	23.5 LT	4		
R3	115+27.9	39.8 LT	115+35.9	40.2 LT			
R3	115+80.7	18.5 RT	116+27.0	18.5 RT	26		
R3	116+27.0	18.5 RT	116+60.0	18.5 RT		18	PARCEL 161 EAST DRIVEWAY
R3	116+60.0	18.5 RT	116+84.9	16.0 RT	17		
R3	117+39.3	15.8 RT	117+60.4	15.5 RT	15		
R3	117+60.4	18.5 RT	118+14.9	18.5 RT		30	PARCEL 159 WEST & 160 DRIVEWAY
R3	118+14.9	18.5 RT	118+43.1	18.5 RT	16		
R3	118+43.1	18.5 RT	118+65.8	18.5 RT		13	PARCEL 159 EAST DRIVEWAY
R3	118+65.8	18.5 RT	119+24.7	18.5 RT	33		
R3	119+24.7	18.5 RT	119+64.2	17.5 RT		22	PARCEL 158 DRIVEWAY
R3	119+64.2	17.5 RT	119+95.6	14.4 RT	20		
R3	120+61.4	14.0 RT	120+86.4	13.0 RT	17		
R3	120+86.4	16.0 RT	121+16.4	16.0 RT	17		
R3	121+16.4	13.0 RT	121+36.7	13.0 RT	15		
R3	121+36.7	13.0 RT	121+50.0	13.0 RT		7	PARCEL 157 DRIVEWAY
R4	121+50.0	13.0 RT	121+83.4	13.5 RT	15	18	PARCEL 157 DRIVEWAY
R4	122+60.7	17.1 RT	123+22.9	18.5 RT	35		
R4	123+22.9	18.5 RT	123+62.9	18.5 RT		22	PARCEL 156 DRIVEWAY
R4	123+62.9	18.5 RT	123+74.6	18.5 RT	6		
R4	124+34.6	18.5 RT	126+58.5	18.5 RT	124		
R4	127+38.2	18.5 RT	127+75.9	18.5 RT	21		
R4	127+38.6	18.5 LT	127+75.9	18.5 LT	21		
R5	12+23.9	22.2 RT	12+36.4	18.0 RT	8		
R5	12+25.7	21.3 LT	12+73.0	18.0 LT	27		
R5	12+36.4	18.0 RT	12+73.0	18.0 RT		20	PARCEL 103 WEST DRIVEWAY
R6	33+33.6	14.0 LT	33+67.0	13.0 LT	29		
R8	72+24.5	22.0 RT	72+64.5	22.0 RT	22		
R8	72+54.5	26.5 LT	72+66.9	26.5 LT	11		
R8	73+36.4	22.0 RT	73+75.6	22.0 RT	22		
R8	73+33.0	26.5 LT	73+45.6	26.5 LT	11		

RECORD DRAWING

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DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
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CONSULTANT

STATE OF ALASKA 49 TH
Robert W. Burdick
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SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 SCHED A
LAKE OTIS PARKWAY TO PIPER STREET

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET T3 of T5

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Summary Tables_Phase 1.dwg

30.10

COLORED CONCRETE (RED, IMPRINTED)

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R1	100+44.8	–	100+58.9	–	58		LAKE OTIS MEDIAN – SEE SHEET R13
R2	114+25.3	15.5 RT	114+52.0	15.5 RT	9		
R2	114+52.0	15.5 RT	114+86.0	15.5 RT		11	PARCEL 161 WEST DRIVEWAY
R2	114+86.0	15.5 RT	115+00.0	15.5 RT	5		
R3	115+00.0	15.5 RT	115+23.6	15.5 RT	8		
R3	115+80.7	15.5 RT	116+27.0	15.5 RT	15		
R3	116+27.0	15.5 RT	116+60.0	15.5 RT		11	PARCEL 161 EAST DRIVEWAY
R3	116+60.0	15.5 RT	116+62.5	15.5 RT	1		
R3	117+60.5	15.5 RT	118+14.9	15.5 RT		18	PARCEL 160 & 159 WEST DRIVEWAY
R3	118+14.9	15.5 RT	118+43.1	15.5 RT	9		
R3	118+43.1	15.5 RT	118+65.8	15.5 RT		8	PARCEL 159 EAST DRIVEWAY
R3	118+65.8	15.5 RT	119+24.7	15.5 RT	20		
R3	119+24.7	15.5 RT	119+64.0	14.5 RT		13	PARCEL 158 DRIVEWAY
R3	119+64.0	14.5 RT	119+68.5	14.1 RT	2		
R3	120+86.4	13.0 RT	121+16.4	13.0 RT	10		
R4	122+60.7	14.1 RT	123+22.9	15.5 RT	21		
R4	123+14.0	15.5 LT	123+20.0	15.5 LT	2		
R4	123+20.0	15.5 LT	123+44.0	15.5 LT		8	PARCEL 110 DRIVEWAY
R4	123+22.9	15.5 RT	123+62.9	15.5 RT		13	PARCEL 156 DRIVEWAY
R4	123+44.0	15.5 LT	123+50.0	15.5 LT	2		
R4	123+62.9	15.5 RT	123+74.6	15.5 RT	4		
R4	123+82.5	15.5 RT	126+58.5	15.5 RT	75		
R4	127+38.2	15.5 RT	127+75.9	15.5 RT	13		
R4	127+38.5	15.5 LT	127+75.9	15.5 LT	12		

30.12

HIGH–PERFORMANCE CONCRETE (8" THICK, NATURAL, BROOM FINISH)

SHEET	APPX BEGIN STA	APPX END STA	8" THICK, AREA (SY)	REMARKS
R4	72+59.7	72+70.7	30	PIPER STREET
R4	73+29.2	73+40.2	30	PIPER STREET

30.12

HIGH–PERFORMANCE CONCRETE (8" THICK, RED, BROOM FINISH)

SHEET	APPX BEGIN STA	APPX END STA	8" THICK, AREA (SY)	REMARKS
R4	126+66.7	126+77.0	36	
R4	127+20.4	127+30.4	36	
R4	72+70.7	72+80.7	38	PIPER STREET
R4	73+19.2	73+29.2	38	PIPER STREET

HIGH–PERFORMANCE CONCRETE NOTES:

1. SEE INTERSECTION LAYOUT SHEET R20 FOR RAISED INTERSECTION LAYOUT.

30.04

P.C.C. CURB RAMP (6" THICK) & DETECTABLE WARNINGS

SHEET	APPX STATION	OFFSET (FT)	CURB RAMP AREA (SY)	DETECTABLE WARNING AREA (SF)	CURB RAMP TYPE	REMARKS
R1	307+05	3.4 LT	11	21	UNIDIRECTIONAL	LAKE OTIS PARKWAY
R1	100+92	27.1 LT	18	11	PARALLEL	LAKE OTIS PARKWAY
R1	100+93	27.6 RT	19	11	PARALLEL	LAKE OTIS PARKWAY
R1	103+75	17.8 LT	12		UNIDIRECTIONAL	PARCEL 102 WEST DRIVEWAY
R1	104+09	17.8 LT	14		UNIDIRECTIONAL	PARCEL 102 WEST DRIVEWAY
R1	105+41	19.9 LT	12		PARALLEL	PARCEL 102 EAST DRIVEWAY
R1	105+80	19.9 LT	15		PARALLEL	PARCEL 102 EAST DRIVEWAY
R1	106+78	18.8 RT	8	11	PARALLEL	LAUREL STREET
R1	106+83	18.8 LT	14	11	PARALLEL	LAUREL STREET
R1	107+33	18.8 RT	10	11	PARALLEL	LAUREL STREET
R1	107+37	18.8 LT	16	11	PARALLEL	LAUREL STREET
R2	108+60	20.9 LT	12	12	PARALLEL	HICKORY PLACE
R2	109+03	20.9 LT	14	12	PARALLEL	HICKORY PLACE
R2	113+49	22.8 RT	8	11	PARALLEL	FOLKER STREET
R2	113+49	22.9 LT	17	11	PARALLEL	FOLKER STREET
R2	113+89	22.8 LT	8	10	PARALLEL	FOLKER STREET
R2	113+90	22.9 RT	9	11	PARALLEL	FOLKER STREET
R3	115+32	15.5 LT	12	16	PERPENDICULAR	PATHWAY CONNECTION
R3	115+35	16.8 RT	12		UNIDIRECTIONAL	PARCEL 161 CENTER DRIVEWAY
R3	115+70	16.8 RT	12		UNIDIRECTIONAL	PARCEL 161 CENTER DRIVEWAY
R3	116+94	20.9 RT	8	12	PARALLEL	ROSON COURT
R3	117+29	20.9 RT	9	12	PARALLEL	ROSON COURT
R3	118+31	20.9 LT	13	12	PARALLEL	BRANTLEY PLACE
R3	118+62	20.9 LT	13	12	PARALLEL	BRANTLEY PLACE
R3	120+05	20.3 LT	12	11	PARALLEL	WRIGHT STREET
R3	120+05	20.3 RT	9	11	PARALLEL	WRIGHT STREET
R3	120+51	20.4 RT	9	11	PARALLEL	WRIGHT STREET
R3	120+51	20.3 LT	13	11	PARALLEL	WRIGHT STREET
R4	121+93	18.4 RT	8	12	PARALLEL	PARKER PLACE
R4	121+94	13.0 LT	15	10	PARALLEL	PARKER PLACE
R4	122+29	18.4 RT	9	12	PARALLEL	PARKER PLACE
R4	123+88	18.4 RT	12		UNIDIRECTIONAL	PARCEL 155 DRIVEWAY
R4	124+22	17.7 RT	12		UNIDIRECTIONAL	PARCEL 111 DRIVEWAY
R4	124+43	17.7 LT	12		UNIDIRECTIONAL	PARCEL 155 DRIVEWAY
R4	124+80	17.8 LT	12		UNIDIRECTIONAL	PARCEL 111 DRIVEWAY
R6	33+78	15.3 LT	11		UNIDIRECTIONAL	PARCEL 104 DRIVEWAY

30.04

P.C.C. CURB RAMP (6" THICK, RED) & DETECTABLE WARNINGS

SHEET	APPX STATION	OFFSET (FT)	CURB RAMP AREA (SY)	DETECTABLE WARNING AREA (SF)	CURB RAMP TYPE	REMARKS
R4	126+76	21.2 LT	28	42	PARALLEL	PIPER STREET
R4	126+76	21.3 RT	28	42	PARALLEL	PIPER STREET
R4	127+21	21.3 LT	27	42	PARALLEL	PIPER STREET
R4	127+21	21.3 RT	29	42	PARALLEL	PIPER STREET

PCC CURB RAMP & DETECTABLE WARNING NOTES:

1. SEE INTERSECTION LAYOUT SHEETS R13–R28 FOR FOR LOCATIONS OF CURB RAMPS AND DETECTABLE WARNINGS.

RECORD DRAWING

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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D–22	162.47
CB 7B	See MOA Benchmark Book, Page D–18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18–06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED A

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET T4 of T5

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Summary Tables_Phase 1.dwg

50.06

REMOVE AND REPLACE MANHOLE CONE SECTION OR REOMVE AND REPLACE MANHOLE COVER AND FRAME

SHEET	STATION	OFFSET (FT)	CONE SECTION	COVER AND FRAME	REMARKS
R1	99+99	2.2 RT		X	
R1	102+63	38.4 LT		X	
R1	103+75	27.0 LT	X		
R1	103+87	9.3 RT		X	
R1	107+00	8.1 RT	X		
R2	108+93	7.8 RT	X		
R2	110+45	7.9 RT	X		
R2	111+59	8.4 RT	X		
R2	113+59	8.5 RT	X		
R3	118+47	8.6 RT	X		
R3	118+88	9.6 RT	X		
R3	120+20	7.8 RT		X	
R4	123+58	5.7 RT	X		
R4	124+46	5.0 RT		X	

REMOVE AND REPLACE MANHOLE CONE SECTION OR REMOVE AND REPLACE MANHOLE COVER AND FRAME NOTES:

1. *SEE MASS DETAIL 50-05, 50-25 AND 50-26.*
2. *COORDINATE WITH ENGINEER IN FIELD TO VERIFY WHETHER CONE OR MANHOLE COVER AND FRAME ADJUSTMENT IS REQUIRED.*
3. *PER THE SECTION 50.06 SPECIAL PROVISIONS THE REMOVE AND REPLACE MANHOLE CONE SECTION PAY ITEM INCLUDES REMOVING AND REPLACING THE MANHOLE COVER AND FRAME. SEE SECTION 50.06 SPECIAL PROVISIONS FOR A COMPLETE LIST OF INCIDENTAL ITEMS.*

50.09

ADJUST CLEANOUT TO FINISH GRADE

SHEET	STATION	OFFSET (FT)	REMARKS
R3	117+68	9.4 RT	
R4	125+67	6.6 RT	

55.07 & 55.08

ADJUST STORM DRAIN MANHOLE CONE OR RING

SHEET	STATION	OFFSET (FT)	CONE	RING	REMARKS
R1	307+13	55.5 RT		X	
R1	307+27	55.2 RT		X	
R1	103+83	39.9 LT		X	
R4	127+01	16.4 RT	X		ADD 1-FOOT BARREL SECTION
R4	127+01	77.4 RT		X	

ADJUST STORM DRAIN MANHOLE CONE OR RING NOTES:

1. *SEE MASS DETAIL 55-17 & 55-18.*

60.03

REMOVE AND REPLACE VALVE BOX TOP SECTION

SHEET	STATION	OFFSET (FT)	REMARKS
R1	306+94	39.9 RT	
R1	307+15	37.8 RT	
R1	307+18	14.5 RT	
R1	307+18	54.6 LT	
R3	120+41	36.3 RT	

REMOVE AND REPLACE VALVE BOX TOP SECTION NOTES:

1. *SEE MASS DETAIL 60-08.*

70.18

CHAIN LINK FENCE (WOOD CLAD)

SHEET	PROPOSED LOCATION				LENGTH (FT)	REMARKS
	APPROX BEGIN STATION	APPROX BEGIN OFFSET	APPROX END STATION	APPROX END OFFSET		
R2	109+05.2	37.0 LT	109+11.1	32.2 LT	7.6	
R2	109+11.1	32.2 LT	109+18.0	28.8 LT	7.6	
R2	109+18.0	28.8 LT	109+25.4	27.1 LT	7.6	
R2	109+25.4	27.1 LT	110+77.3	27.1 LT	151.8	

CHAIN LINK FENCE (WOOD CLAD) NOTES:

1. *SEE SHEET D10, DETAIL 1 FOR CHAIN LINK FENCE (WOOD CLAD) DETAILS.*
2. *STAKE FENCE LAYOUT IN FIELD FOR ENGINEER TO REVIEW AND APPROVE PRIOR TO INSTALLATION. THIS WORK SHALL BE INCIDENTAL TO SECTION 70.18 PAY ITEM.*

SPECIAL FILL GRADING TABLE

SHEET	APPROX BEGIN STATION	APPROX END STATION	OFFSET	REMARKS
R1	103+26	104+32	RT	
R1	104+56	104+90	RT	
R1	105+30	105+45	LT	
R1	105+75	106+87	LT	
R1	106+12	106+82	RT	
R4	121+80	122+08	LT	
R4	122+09	122+41	LT	
R5	20+36	20+50	RT	HICKORY PLACE
R5	20+84	20+92	LT	HICKORY PLACE
R6	32+22	32+59	RT	FOLKER STREET
R6	32+23	32+80	LT	FOLKER STREET
R7	52+43	52+79	LT	WRIGHT STREET
R7	53+28	53+59	LT	WRIGHT STREET
R8	72+30	72+71	RT	PIPER STREET

SPECIAL FILL GRADING NOTES:

1. *SPECIAL FILL GRADING SHALL BE PER DETAIL 3, SHEET C6.*
2. *LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL MODIFY LOCATIONS IN THE FIELD PER THE DIRECTION OF THE ENGINEER OR AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.*

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Summary Tables_Phase 1.dwg

RECORD DRAWING

1. DATA PROVIDED BY: ______ TITLE: ______
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   CONTRACTOR: ______
   BY: ______ TITLE: ______ DATE: ______
2. DATA TRANSFERRED BY: ______ TITLE: ______
   COMPANY: ______ DATE: ______
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   DATA TRANSFER CHECKED BY: ______ TITLE: ______
   COMPANY: ______ DATE: ______
   BY: ______

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

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Robert W. Burdick
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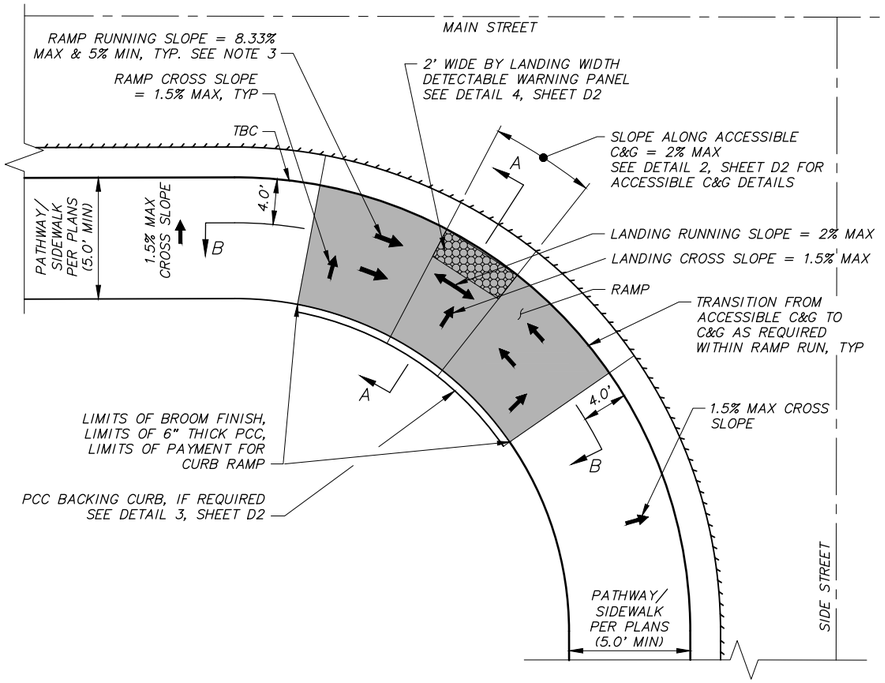
MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06
42ND AVENUE UPGRADE - PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET
SCHED A

ROADWAY SUMMARY TABLES

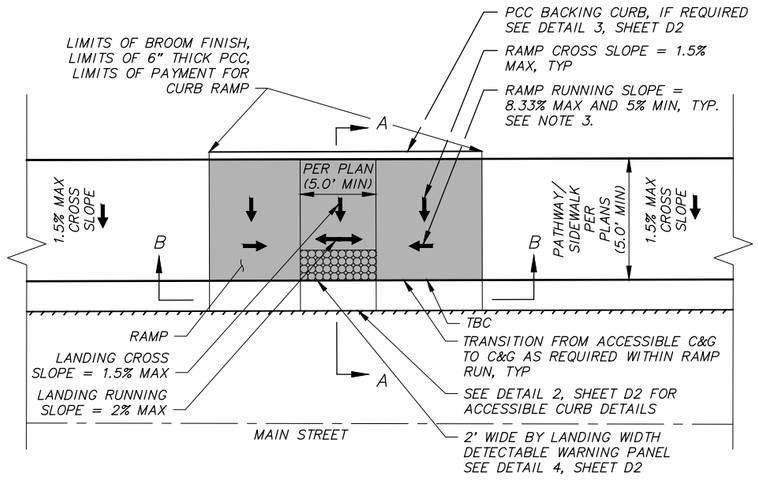
SCALE HOR. N/A VER. N/A
GRID SW1733, SW1734, SW1735
DATE AUGUST 2023
STATUS 95%
SHEET T5 of T5



TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITH CONNECTING SIDE STREET SIDEWALK - PLAN VIEW

1

SCALE: NTS



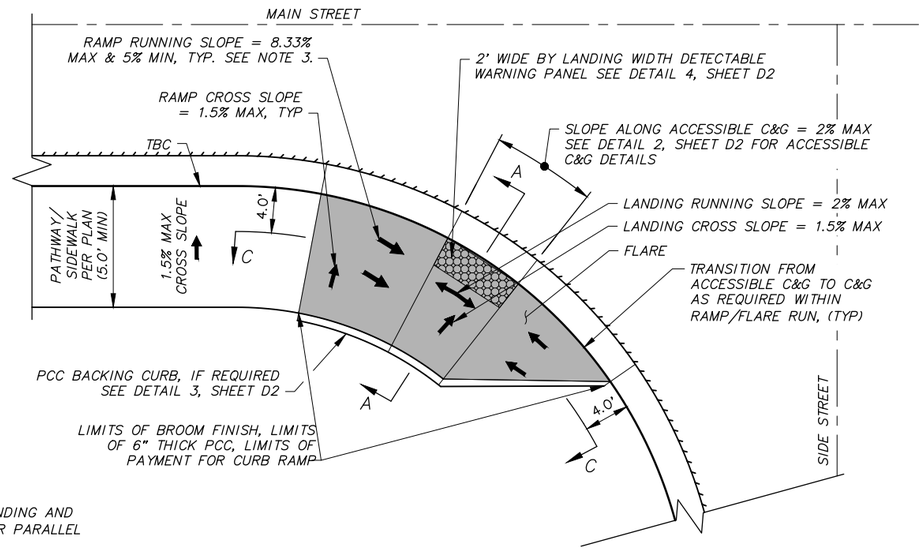
TYPICAL PARALLEL CURB RAMP AT NON-CORNER LOCATION - PLAN VIEW

2

SCALE: NTS

SHEET NOTES:

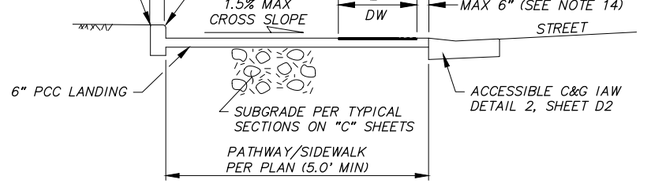
1. SEE SHEETS R13–R28 FOR CURB RAMP TYPES, LOCATIONS, RAMP, LANDING AND FLARE LENGTHS AND ELEVATIONS. RAMP/FLARE/LANDING LENGTH FOR PARALLEL CURB RAMPS SHALL BE AS MEASURED 4' OFF BACK OF CURB.
2. NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
3. FOR 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.
4. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
5. MINIMUM FLOWLINE SLOPE IN CURB RETURN IS 0.5%, UNLESS OTHERWISE NOTED.
6. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
7. CONSTRUCT SIDEWALK ADJACENT TO CURB RAMP PER THE TYPICAL SECTIONS SHOWN ON THE "C" SHEETS.
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 BACKING CURB AS DIRECTED BY THE ENGINEER TO MATCH EXISTING GROUND. PAYMENT FOR THIS CURB SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" 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 MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. 4" TOPSOIL AND 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 UNLESS OTHERWISE NOTED 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. SEE DETAIL 4, SHEET D2.
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 30.04 DETECTABLE WARNINGS PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.



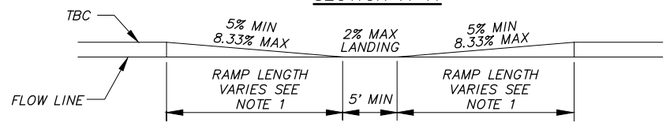
TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITHOUT CONNECTING SIDE STREET SIDEWALK - PLAN VIEW

3

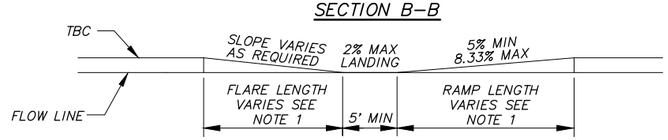
SCALE: NTS



SECTION A–A



SECTION B–B



SECTION C–C

TYPICAL CURB RAMP SECTIONS

4

SCALE: NTS

RECORD DRAWING

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DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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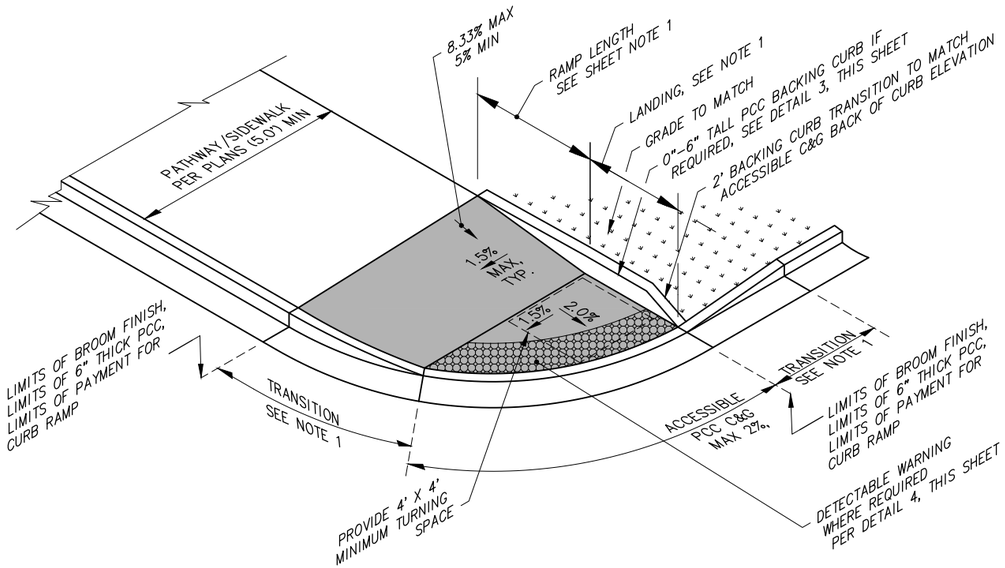
18–06 | 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET | SCHED A

ROADWAY DETAILS

CURB RAMPS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D1 of D12

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg

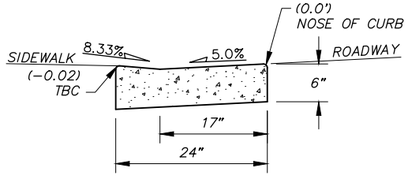


UNIDIRECTIONAL CURB RAMP NOTES:

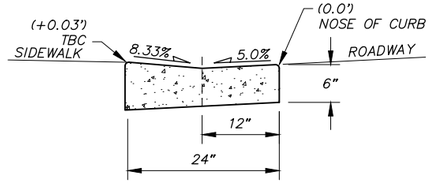
1. SEE SHEET NOTES ON SHEET D1.

1 UNIDIRECTIONAL CURB RAMP

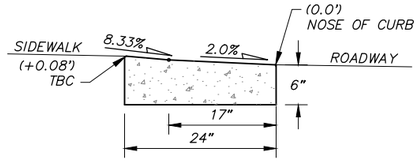
SCALE: NTS



PCC CURB AND GUTTER TYPE 1A
FOR USE IN CURB RAMPS WITH TYPE 1 C&G.



PCC CURB AND GUTTER TYPE 2A
FOR USE IN CURB RAMPS WITH TYPE 2 C&G



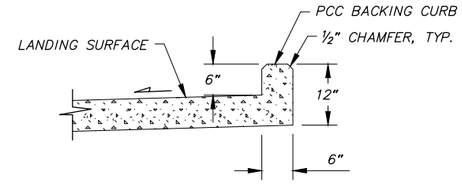
PCC CURB AND GUTTER TYPE 3A
FOR USE IN CURB RAMPS WITH TYPE 3 C&G.

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 CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.

2 ACCESSIBLE CURB & GUTTER SECTIONS (TYPE 1A & TYPE 3A)

SCALE: NTS



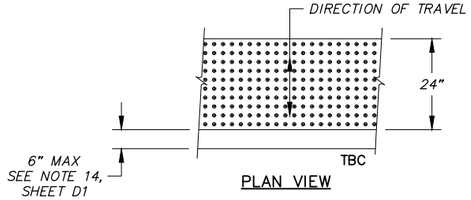
MONOLITHIC

BACKING CURB DETAIL NOTES:

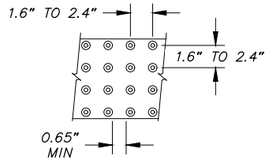
1. THE TOP OF BACKING CURB SHALL TRANSITION BACK TO TOP OF SIDEWALK AT TOP RAMP SECTION OF CURB RAMP.

3 BACKING CURB DETAIL

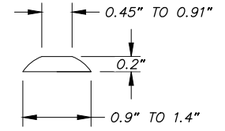
SCALE: NTS



PLAN VIEW



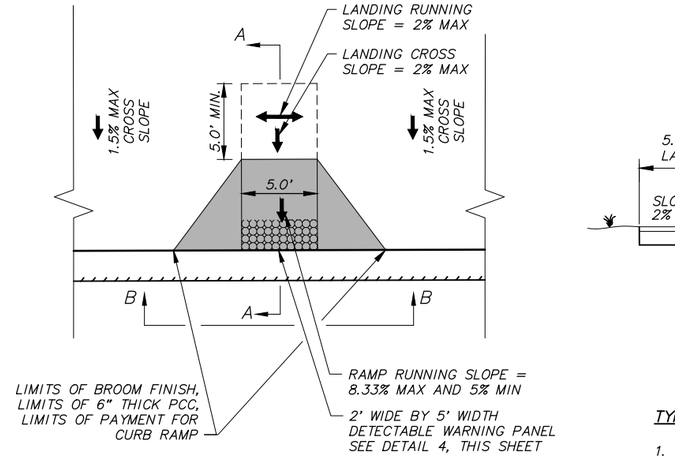
DOME PLAN



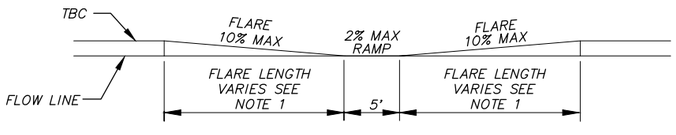
DOME SECTION

4 DETECTABLE WARNING PANEL

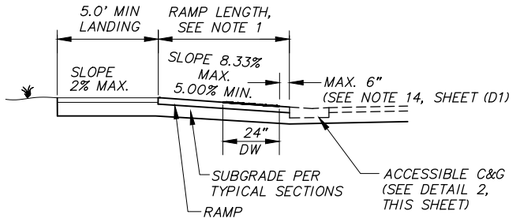
SCALE: NTS



PLAN VIEW



SECTION B–B



SECTION A–A

TYPICAL PERPENDICULAR CURB RAMP NOTES:

1. SEE SHEET NOTES ON SHEET D1.

5 TYPICAL PERPENDICULAR CURB RAMP

SCALE: N.T.S

RECORD DRAWING

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DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	TS	AR
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PLAN CHECK

FIELD BOOKS	
DESIGN	CRW BOOK No. 197, 198
	& 201
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

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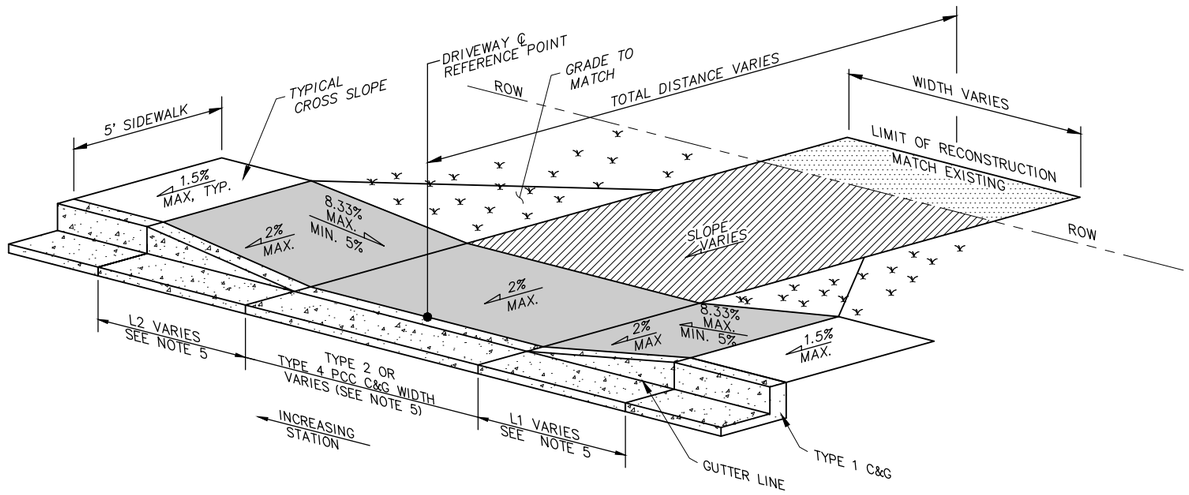
18-06 — 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET — SCHED A

ROADWAY DETAILS

CURB RAMPS

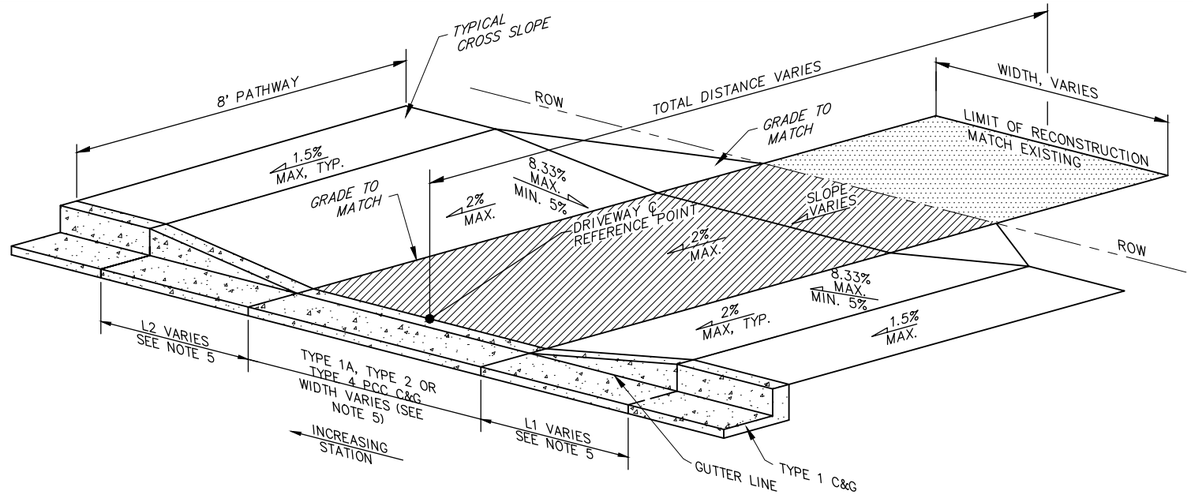
SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D2 of D12

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg



1 TYPICAL DRIVEWAY CURB CUT WITH SIDEWALK & NO BUFFER

SCALE: NTS



2 TYPICAL DRIVEWAY CURB CUT WITH PATHWAY & NO BUFFER

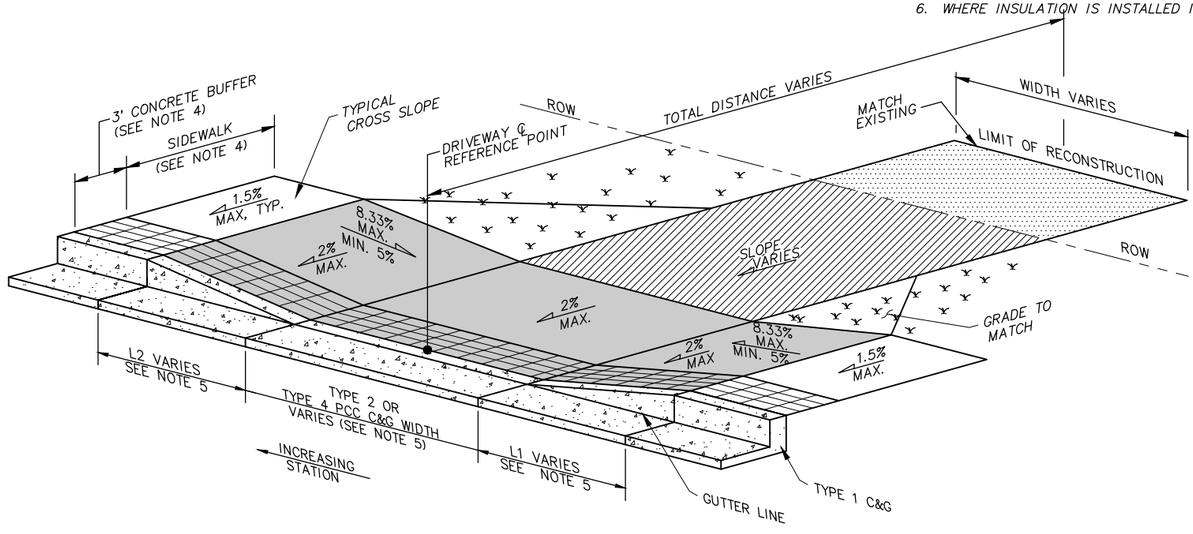
SCALE: NTS

SHEET LEGEND:

- *LIMITS OF 2" AC PAVING FOR DRIVEWAY*
- *SURFACE TYPE VARIES, SEE NOTE 5*
- *LIMITS OF P.C.C. SIDEWALK (6" THICK, STANDARD FINISH), SEE NOTE 4*
- *LIMITS COLORED CONCRETE (4" THICK, RED, IMPRINTED)*
- *LIMITS COLORED CONCRETE (6" THICK, RED, IMPRINTED), SEE NOTE 4*

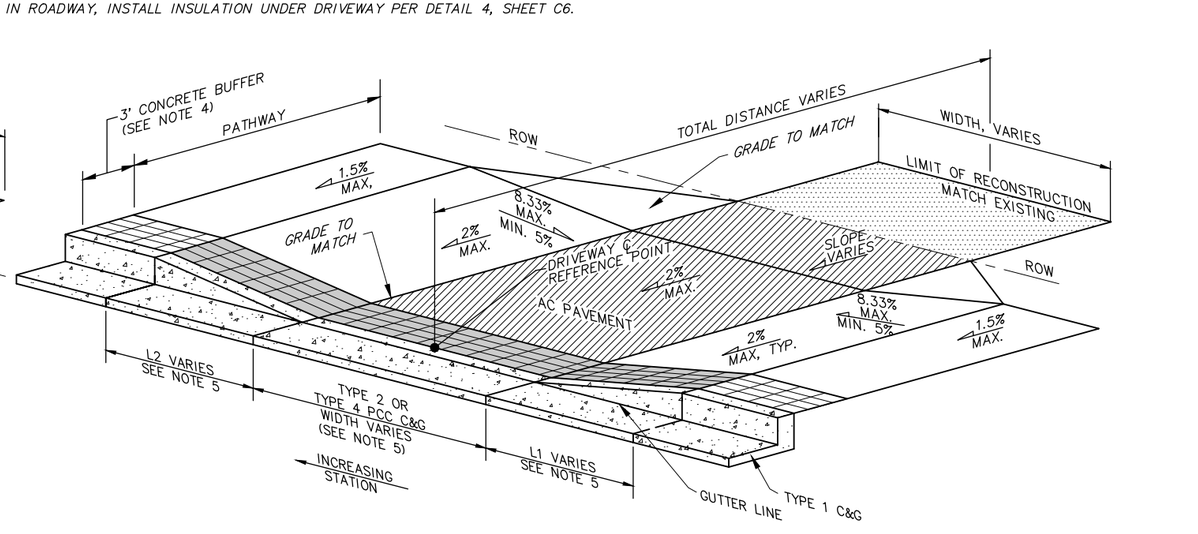
SHEET DRIVEWAY NOTES:

1. *ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.*
2. *PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER, (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.*
3. *CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES.*
4. *INCREASE SIDEWALK & CONCRETE BUFFER THICKNESS TO 6" ACROSS LANDINGS AND RAMP TRANSITIONS AND ADD WELDED STEEL WIRE REINFORCEMENT PER THE SPECIFICATIONS.*
5. *SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLE "T" SHEETS AND DRIVEWAY RECONSTRUCTION PLANS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.*
6. *WHERE INSULATION IS INSTALLED IN ROADWAY, INSTALL INSULATION UNDER DRIVEWAY PER DETAIL 4, SHEET C6.*



3 TYPICAL DRIVEWAY CURB CUT WITH SIDEWALK & BUFFER

SCALE: NTS



4 TYPICAL DRIVEWAY CURB CUT WITH PATHWAY & BUFFER

SCALE: NTS

RECORD DRAWING

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PROFILE	RB	JK
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GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

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Robert W. Burdick
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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

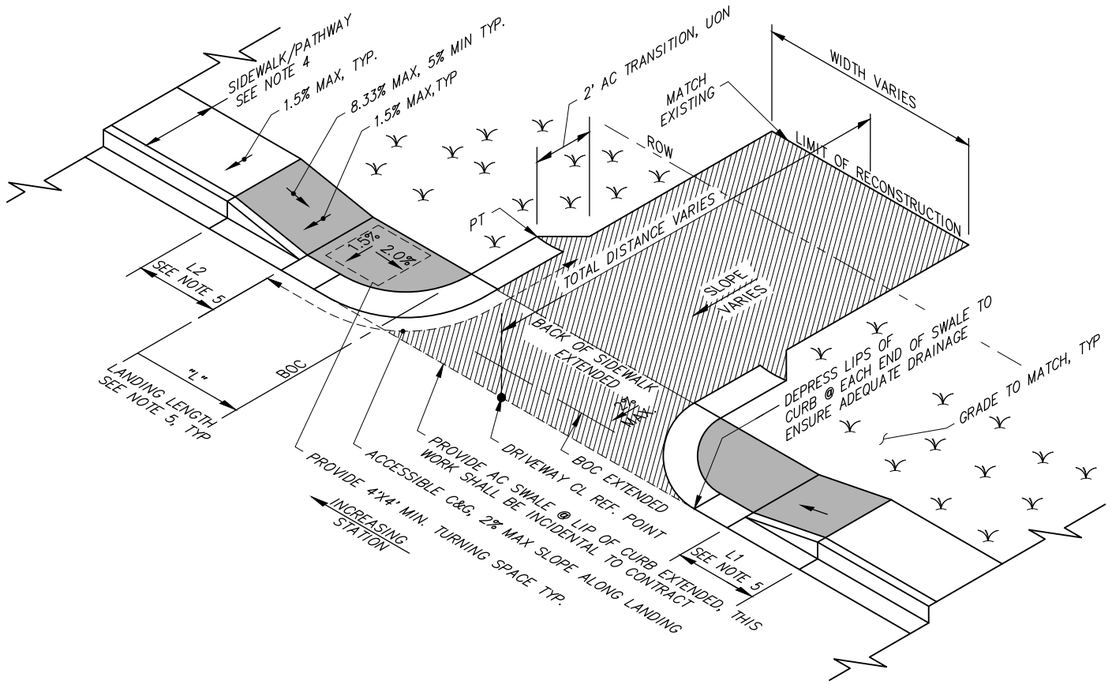
18-06 — 42ND AVENUE UPGRADE – PHASE 1 — LAKE OTIS PARKWAY TO PIPER STREET — SCHED A

ROADWAY DETAILS

DRIVEWAYS

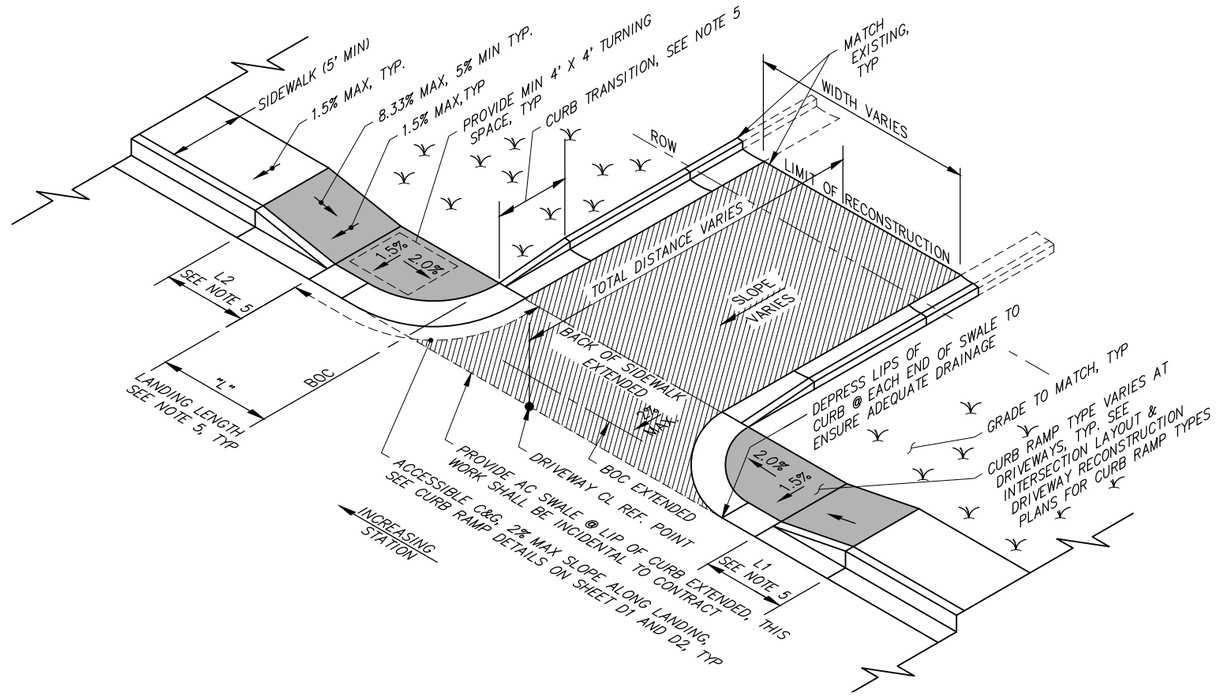
SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D3 of D12

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg



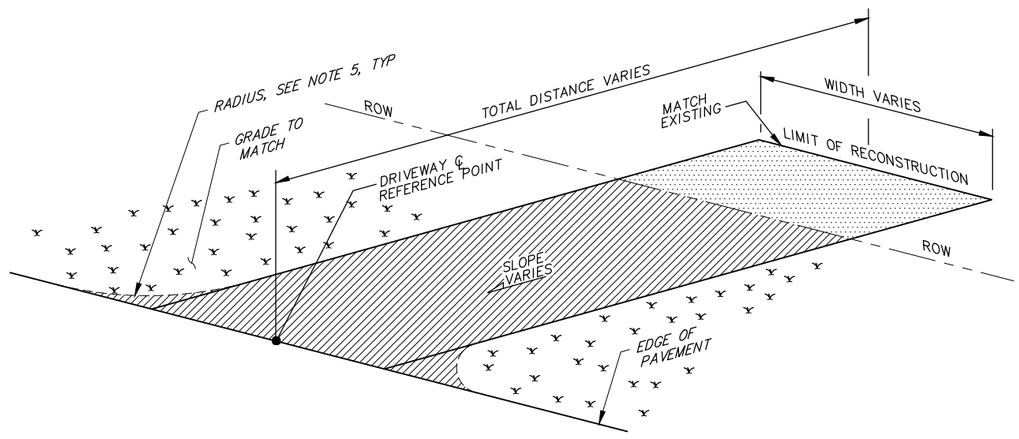
1 **TYPICAL DRIVEWAY CURB RETURN WITHOUT CONNECTING CURB**

SCALE: NTS



2 **TYPICAL DRIVEWAY CURB RETURN WITH CONNECTING CURB**

SCALE: NTS



3 **TYPICAL DRIVEWAY WITHOUT CURB**

SCALE: NTS

SHEET DRIVEWAY NOTES:

1. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
2. PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER, (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
3. CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES.
4. INCREASE SIDEWALK & CONCRETE BUFFER THICKNESS TO 6" ACROSS LANDINGS AND RAMP TRANSITIONS AND ADD WELDED STEEL WIRE REINFORCEMENT PER THE SPECIFICATIONS.
5. SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLE "T" SHEETS AND DRIVEWAY RECONSTRUCTION PLANS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.
6. WHERE INSULATION IS INSTALLED IN ROADWAY, INSTALL INSULATION UNDER DRIVEWAY PER DETAIL 4, SHEET C6.

SHEET LEGEND:

- LIMITS OF 2" AC PAVING FOR DRIVEWAY
- SURFACE TYPE VARIES, SEE NOTE 5
- LIMITS OF P.C.C. SIDEWALK (6" THICK, STANDARD FINISH), SEE NOTE 4

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PLAN CHECK

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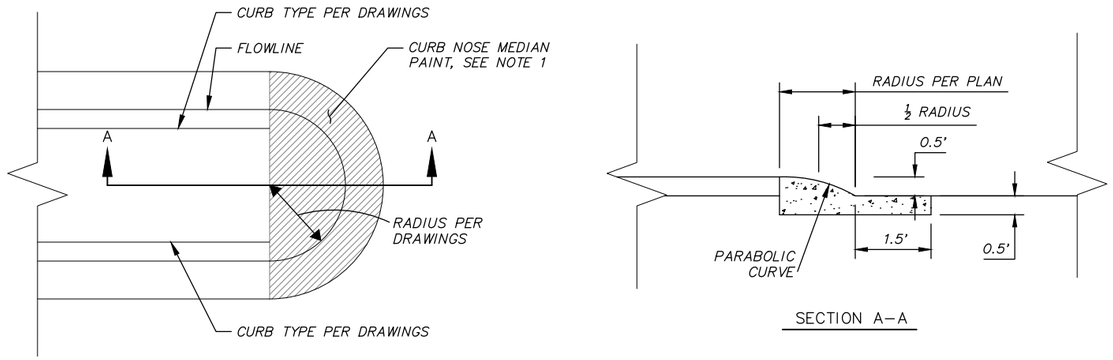
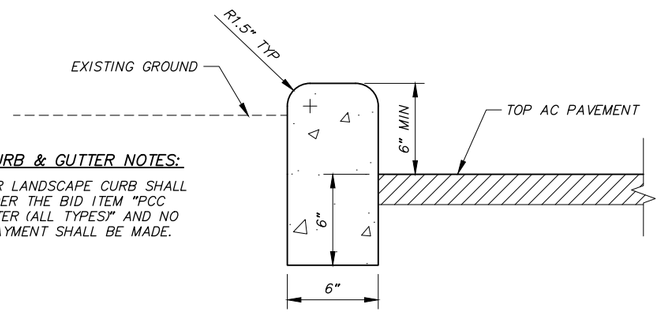


CURB NOSE MEDIAN DETAIL NOTE:

1. CURB NOSE MEDIAN SHALL BE PAINTED WITH YELLOW 60 MIL METHYL METHACRYLATE REFLECTIVE TRAFFIC PAINT. PAINTING & MATERIALS SHALL BE INCIDENTAL TO 30.02 CURB NOSE PAY ITEM.

1 CURB NOSE MEDIAN DETAIL

SCALE: NTS



LANDSCAPE CURB & GUTTER NOTES:

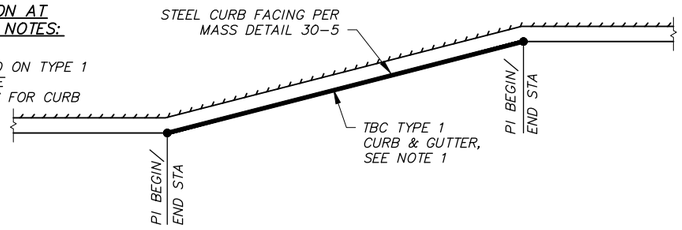
1. PAYMENT FOR LANDSCAPE CURB SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.

2 LANDSCAPE CURB DETAIL

SCALE: NTS

CURB AND GUTTER TRANSITION AT NECKDOWN & LANE WIDENING NOTES:

1. STEEL CURB FACING REQUIRED ON TYPE 1 CURB AND GUTTER ONLY. SEE INTERSECTION LAYOUT SHEETS FOR CURB TYPE AT NECKDOWNS.

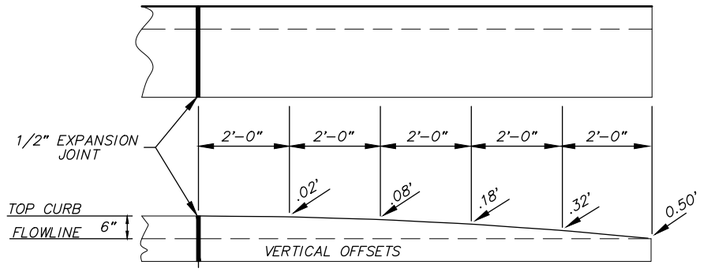


3 CURB & GUTTER TRANSITION AT NECKDOWN

SCALE: NTS

SPECIAL TYPE 1 CURB AND GUTTER TERMINATION TRANSITION NOTES:

1. PAYMENT FOR SPECIAL 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. SPECIAL TYPE 1 CURB AND GUTTER TERMINATION TRANSITION ONLY INSTALLED IN LOCATIONS AS SHOWN ON THE PLANS. INSTALL TYPE 1 CURB AND GUTTER TERMINATION TRANSITION PER MASS DETAIL 30–2 UNLESS OTHERWISE NOTED.

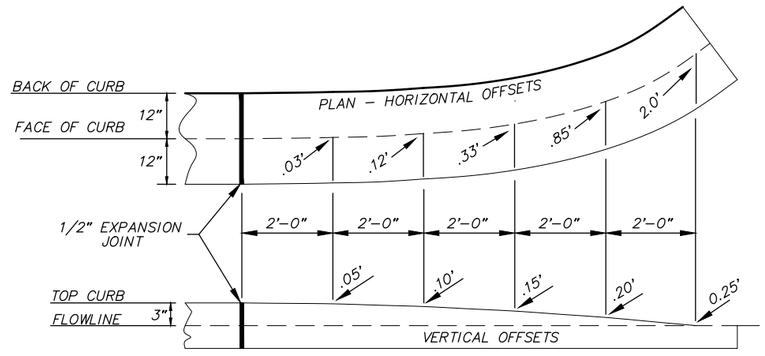


4 SPECIAL TYPE 1 CURB AND GUTTER TERMINATION TRANSITION

SCALE: NTS

TYPE 2 CURB AND GUTTER TERMINATION TRANSITION NOTES:

1. PAYMENT FOR TYPE 2 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.

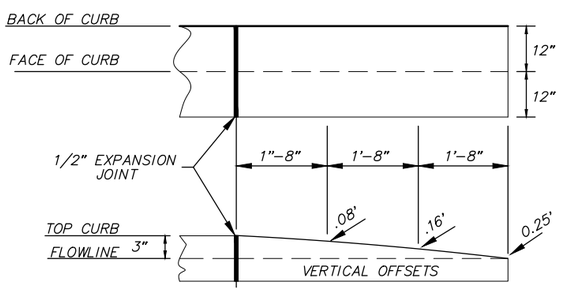


5 TYPE 2 CURB AND GUTTER TERMINATION TRANSITION

SCALE: NTS

SPECIAL TYPE 2 CURB AND GUTTER TERMINATION TRANSITION NOTES:

1. PAYMENT FOR SPECIAL TYPE 2 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.



6 SPECIAL TYPE 2 CURB AND GUTTER TERMINATION TRANSITION

SCALE: NTS

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TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
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GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
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CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
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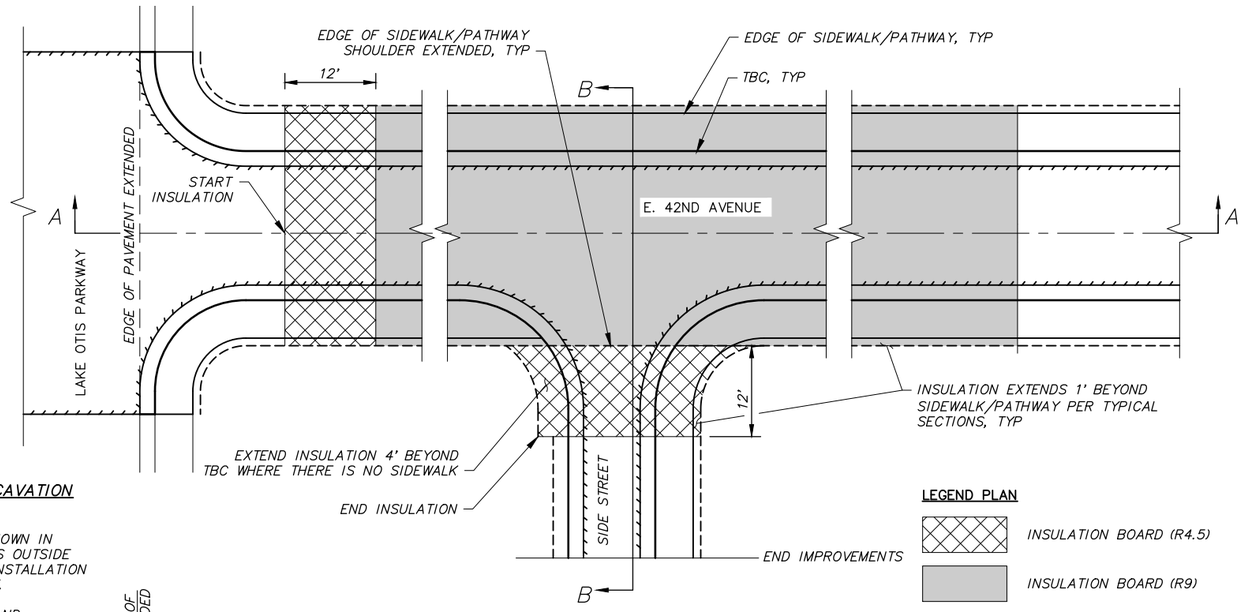
18–06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED A

ROADWAY DETAILS

CURB DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D5 of D12

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg



PLAN

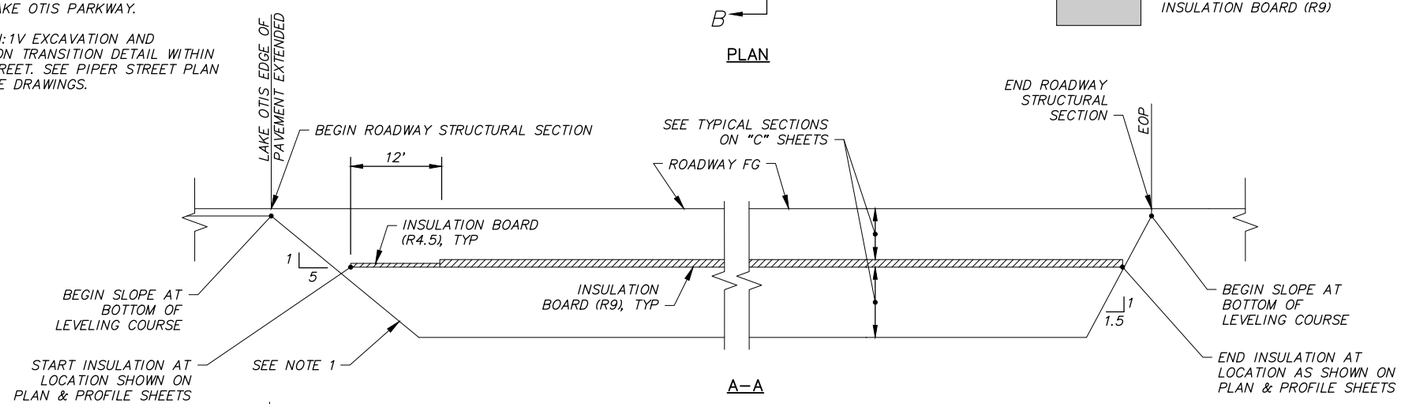
LEGEND PLAN

INSULATION BOARD (R4.5)

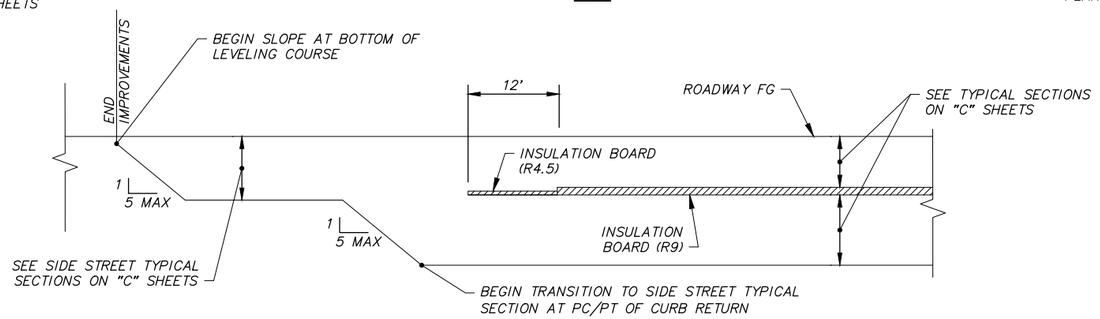
INSULATION BOARD (R9)

BOARD INSULATION AND EXCAVATION TRANSITION DETAIL NOTES:

1. EXCAVATION TRANSITION SHOWN IN SECTION A–A IS FOR AREAS OUTSIDE WATER AND STORM DRAIN INSTALLATION WITHIN LAKE OTIS PARKWAY.
2. APPLY 5H:1V EXCAVATION AND INSULATION TRANSITION DETAIL WITHIN PIPER STREET. SEE PIPER STREET PLAN & PROFILE DRAWINGS.



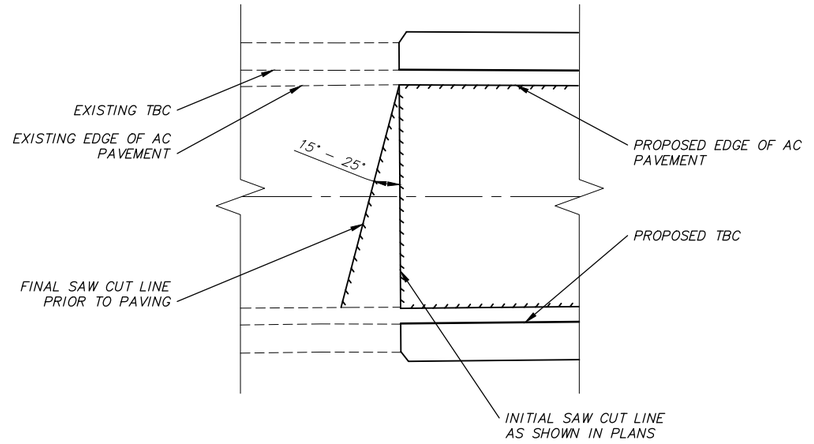
A–A



B–B

1 BOARD INSULATION AND EXCAVATION TRANSITION DETAIL

SCALE: NTS

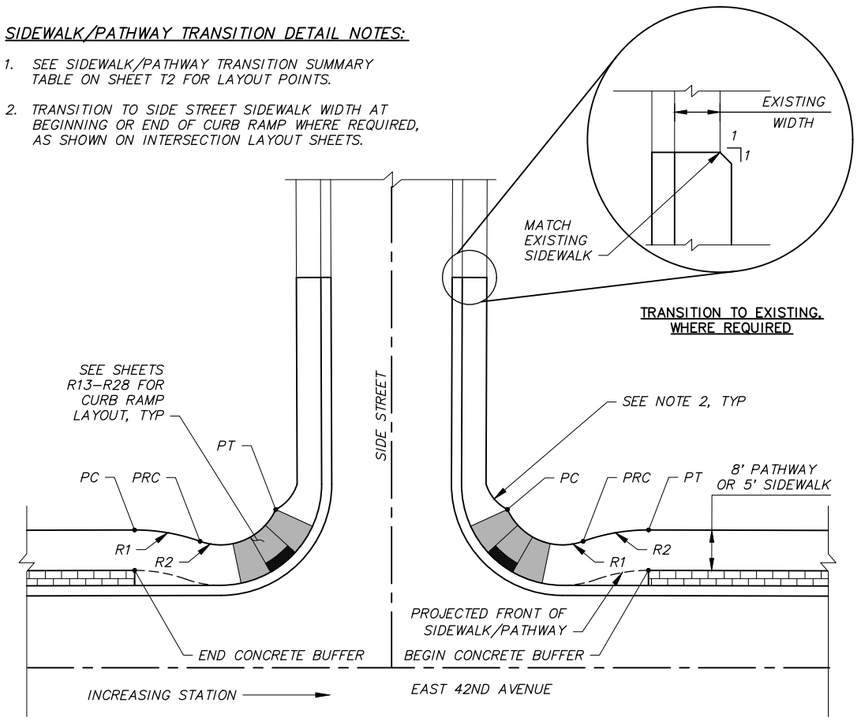


2 TRANSVERSE SAW CUT JOINT DETAIL

SCALE: NTS

SIDEWALK/PATHWAY TRANSITION DETAIL NOTES:

1. SEE SIDEWALK/PATHWAY TRANSITION SUMMARY TABLE ON SHEET T2 FOR LAYOUT POINTS.
2. TRANSITION TO SIDE STREET SIDEWALK WIDTH AT BEGINNING OR END OF CURB RAMP WHERE REQUIRED, AS SHOWN ON INTERSECTION LAYOUT SHEETS.



3 SIDEWALK/PATHWAY TRANSITION DETAIL

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ROADWAY DETAILS

MISCELLANEOUS DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D6 of D12

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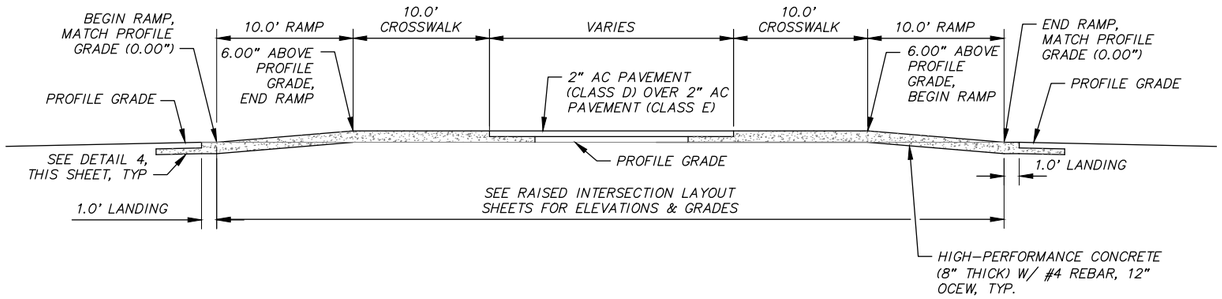


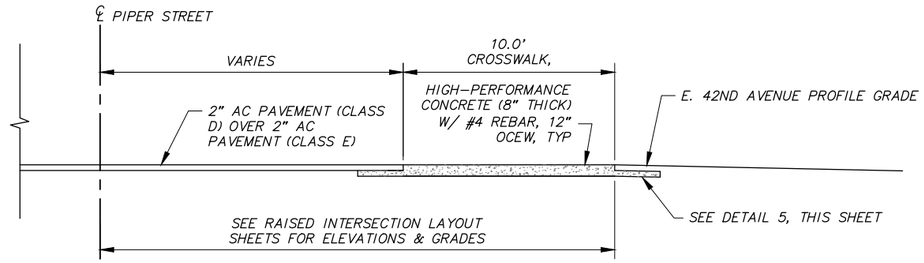
TYPICAL RAISED INTERSECTION CENTERLINE PROFILE - PIPER STREET

1

SCALE: NTS

RAISED INTERSECTION NOTES:

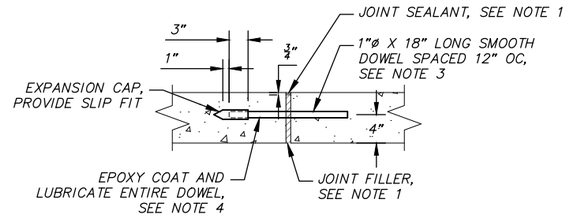
1. 8" CONCRETE SURFACES TO BE PAID UNDER ITEM HIGH-PERFORMANCE CONCRETE.
2. AT RAISED INTERSECTIONS PROVIDE CONTRACTION JOINTS 5' OCEW FOR ALL CONCRETE SURFACES.
3. AT RAISED INTERSECTIONS EXPANSION JOINTS SHALL BE PROVIDED ON MAXIMUM 15' OCEW.
4. INSTALL EXPANSION & CONSTRUCTION JOINTS PER DETAIL 3 AND INSTALL AC PAVEMENT/CONCRETE JOINTS PER DETAIL 4 OR 5, THIS SHEET AS REQUIRED.



TYPICAL RAISED INTERSECTION CENTERLINE PROFILE - E. 42ND AVENUE

2

SCALE: NTS



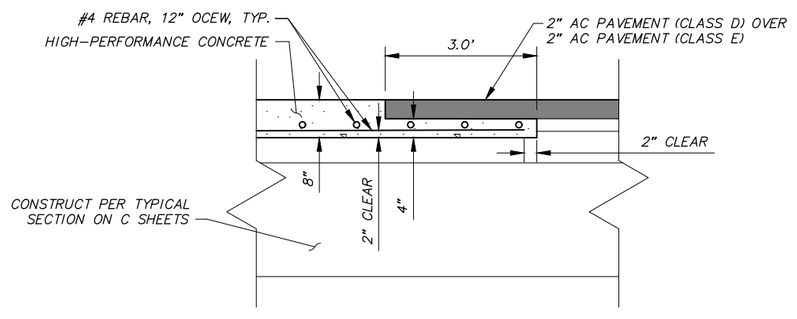
EXPANSION & CONSTRUCTION JOINT

3

SCALE: NTS

EXPANSION & CONSTRUCTION JOINT NOTES:

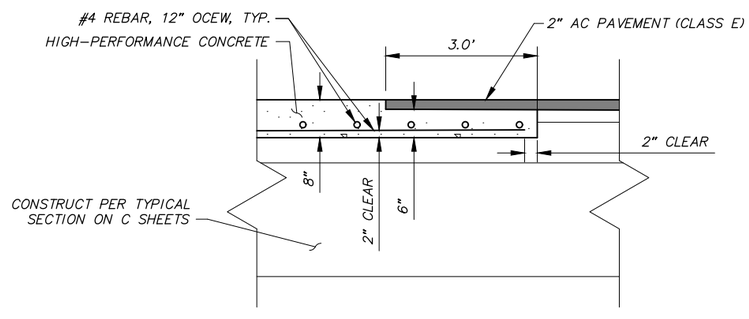
1. SEE MASS SECTION 30.01 FOR EXPANSION JOINT FILLER REQUIREMENTS AND MASS SECTION 30.11 FOR SEALANT REQUIREMENTS. CONSTRUCTION JOINTS SHALL BE CONSTRUCTED SIMILARLY.
2. DOWELS SHALL BE USED AT ALL EXPANSION AND CONSTRUCTION JOINTS EXCEPT JOINT AT FACE OF CURB PAN.
3. DOWELS SHALL BE EPOXY COATED STEEL IN ACCORDANCE WITH ASTM A 615M, GRADE 280 OR 420.
4. DOWEL BARS SHALL BE LUBRICATED WITH BOND BREAKER OVER THE ENTIRE BAR PRIOR TO PLACEMENT. LUBRICANT SHALL BE PETROLEUM PARAFFIN BASED.
5. ALL WORK RELATED TO FURNISHING AND INSTALLING DOWEL BARS SHALL BE CONSIDERED INCIDENTAL TO HIGH-PERFORMANCE CONCRETE PAY ITEM.



TYPICAL AC PAVEMENT/CONCRETE JOINT DETAIL - PIPER STREET

4

SCALE: NTS



TYPICAL AC PAVEMENT/CONCRETE JOINT DETAIL - E. 42ND AVENUE

5

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49 TH
Robert W. Burdick
CE-123959
REGISTERED PROFESSIONAL ENGINEER

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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

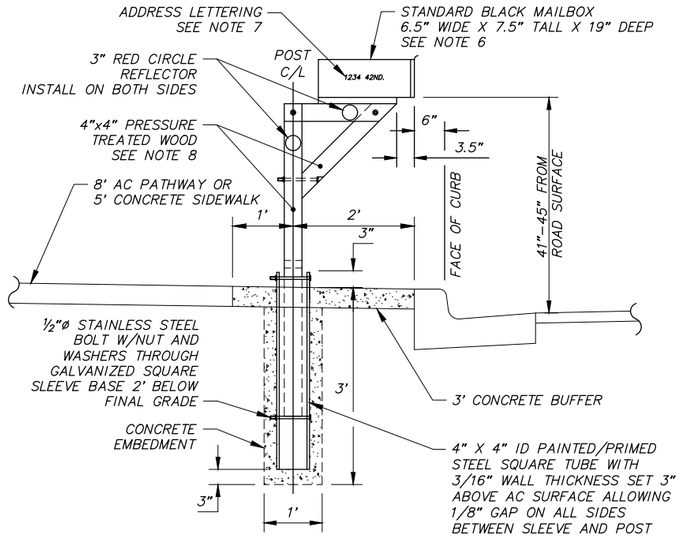
18-06 — 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET — SCHED A

ROADWAY DETAILS

RAISED INTERSECTION

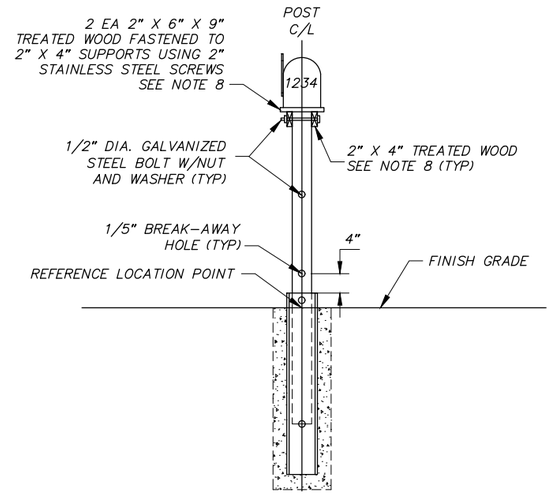
SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D7 of D12

File: J:\JobsDate\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg



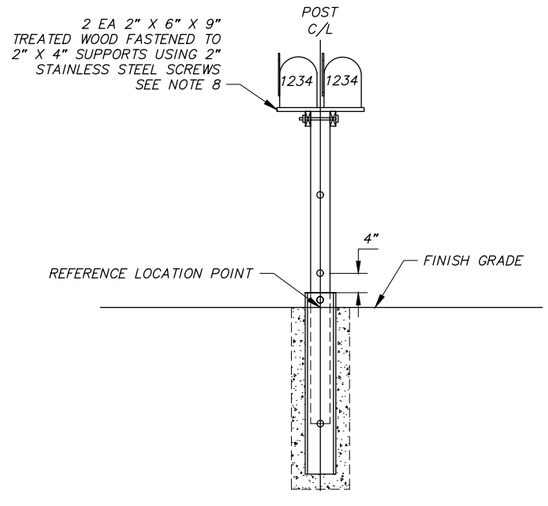
1 TYPICAL WOOD POST MAILBOX INSTALLATION

SCALE: NTS



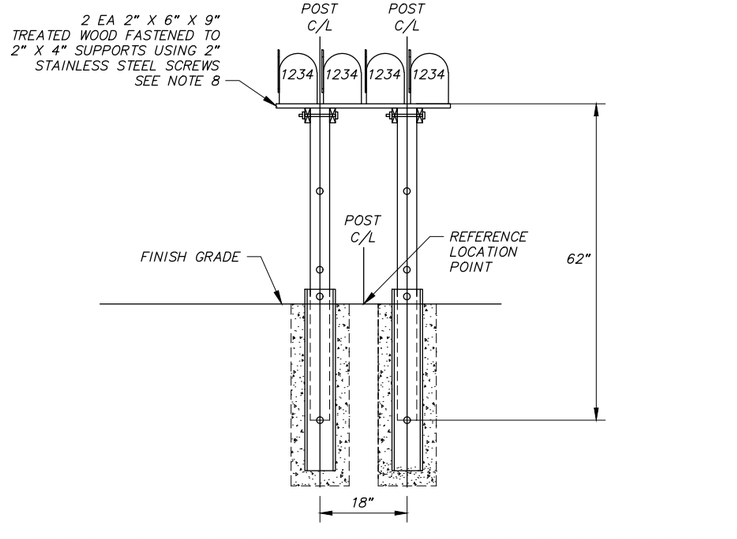
2 TYPICAL SINGLE MAILBOX INSTALLATION

SCALE: NTS



3 TYPICAL COMBINED MAILBOX INSTALLATION FOR 2 BOXES

SCALE: NTS



4 TYPICAL COMBINED MAILBOX INSTALLATION FOR MORE THAN 2 BOXES

SCALE: NTS

TYPICAL WOOD POST MAILBOX INSTALLATION NOTES:

1. *SEE "RELOCATE MAILBOX" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.*
2. *RELOCATE COMBINED MAILBOXES TO THE PROPOSED STATION AND 2' BEHIND THE TOP BACK OF CURB.*
3. *CUT OFF EXCESS BOLTS AND FILE SMOOTH AFTER TIGHTENING.*
4. *MAILBOXES AND SUPPORTS SHALL CONFORM WITH U.S. POSTAL SERVICE REGULATIONS.*
5. *NEWSPAPER RECEPTACLES SHALL CONFORM TO THE SAME SETBACK AND SUPPORT REGULATIONS AS MAILBOXES. WHERE NEWSPAPER RECEPTACLES AND MAILBOXES ARE TO BE MOUNTED TOGETHER, THE NEWSPAPER RECEPTACLE SHALL BE MOUNTED BELOW THE BOTTOM SURFACE OF THE MAILBOX. RELOCATION OF EXISTING NEWSPAPER RECEPTACLES IS INCIDENTAL TO THE RELOCATE MAILBOX BID ITEM.*
6. *CONTRACTOR SHALL COORDINATE WITH THE MOA AND ENGINEER IN THE FIELD REGARDING MAILBOX SUBSTITUTIONS OR MAILBOX SIZING, PRIOR TO ORDERING MATERIALS.*
7. *CONTRACTOR SHALL INSTALL MAILBOX ADDRESS LABELS TO MATCH EXISTING LABELS. ADDRESS LABELS SHALL BE A MINIMUM OF 1" IN HEIGHT AND INSTALLED ON THE SIDE OF THE MAILBOX VISIBLE FROM ON COMING TRAFFIC. ADDRESS LABELS SHOULD BE CENTERED BOTH VERTICAL AND HORIZONTAL ON MAILBOX.*
8. *ALL WOOD SHALL BE PRESSURE TREATED WOOD SEALED WITH A SEMI-TRANSPARENT OIL BASED STAIN BROWN IN COLOR. SUBMIT COLOR SAMPLE FOR APPROVAL.*
9. *CONTRACTOR TO SEAL THE TUBE BASE WHEN SETTING CONCRETE TO AVOID CONCRETE FROM ENTERING THE TUBE.*
10. *THE LOCATION OF EXISTING FEATURES AND UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY HORIZONTAL AND VERTICAL LOCATION OF ALL ENCOUNTERED UTILITIES AND RECORD ANY CHANGES ON THE RECORD DRAWINGS.*
11. *CONTRACTOR MAY ADJUST CONCRETE EMBEDMENT DEPTH IF UTILITY CONFLICTS ARE ENCOUNTERED.*

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
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TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
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TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	
DESIGN CRW BOOK No. 197, 198 & 201	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA 49 TH
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED A
LAKE OTIS PARKWAY TO PIPER STREET

ROADWAY DETAILS

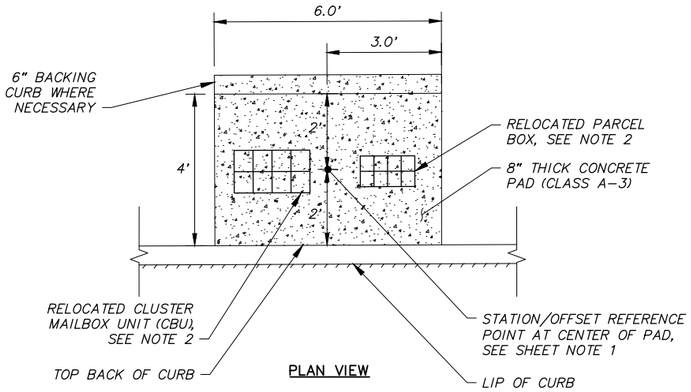
MAILBOX

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D8 of D12

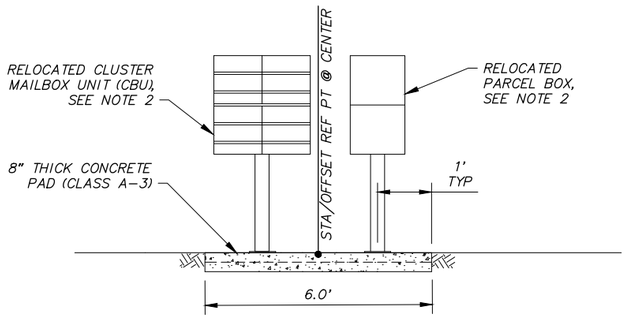
File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg

CLUSTER MAILBOX PCC BASE NOTES:

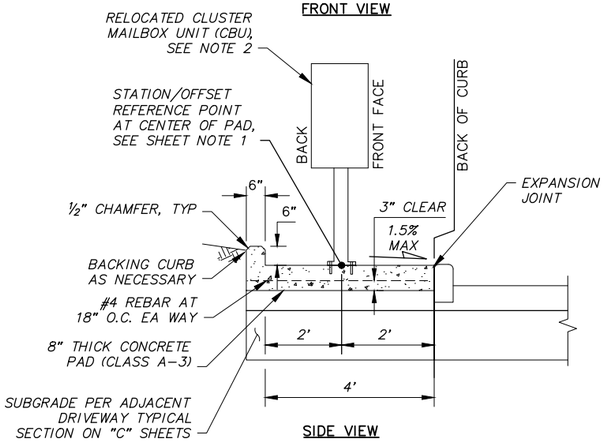
1. SEE "RELOCATE CLUSTER MAILBOX UNIT" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
2. INSTALL CLUSTER MAILBOX UNITS AND PARCEL BOXES ON CONCRETE PAD AS DIRECTED BY ENGINEER IN THE FIELD. USPS MAY REQUEST TO REPLACE EXISTING CLUSTER MAILBOX UNITS OR PARCEL BOXES, COORDINATE WITH ENGINEER PRIOR TO INSTALLATION OF RELOCATED CLUSTER MAILBOX UNITS OR PARCEL BOXES.



PLAN VIEW



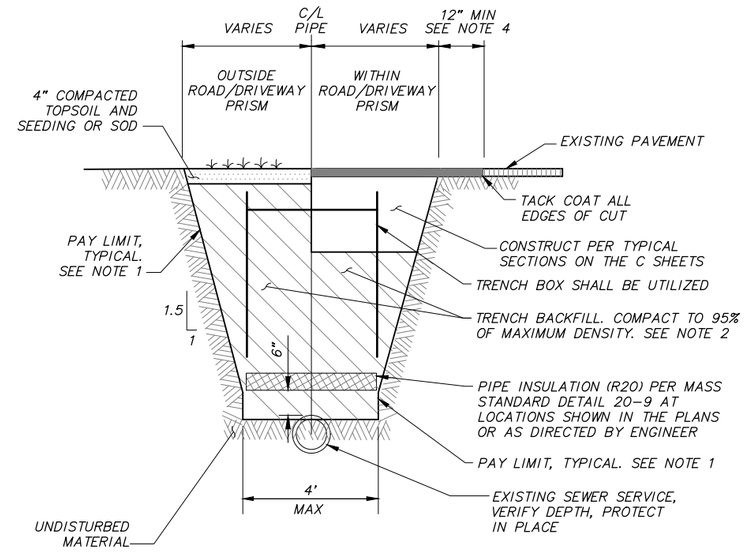
FRONT VIEW



SIDE VIEW

1 CLUSTER MAILBOX PCC BASE DETAIL

SCALE: NTS



SEWER PIPE TRENCH FOR INSULATION NOTES:

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY. A TRENCH BOX SHALL BE UTILIZED TO MINIMIZE EXCAVATION LIMITS.
2. TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE IV CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE IV CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL. TYPE II MATERIAL IMPORTED FOR TRENCH BACKFILL SHALL BE PAID FOR UNDER SCHEDULE B STORM DRAIN IMPROVEMENTS.
3. REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13. DISPOSAL OF UNUSABLE OR SURPLUS MATERIAL SHALL BE PAID FOR UNDER SCHEDULE B STORM DRAIN IMPROVEMENTS.
4. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN A 12 INCH ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE.

2 TYPICAL SEWER PIPE TRENCH FOR INSULATION

SCALE: NTS

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ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

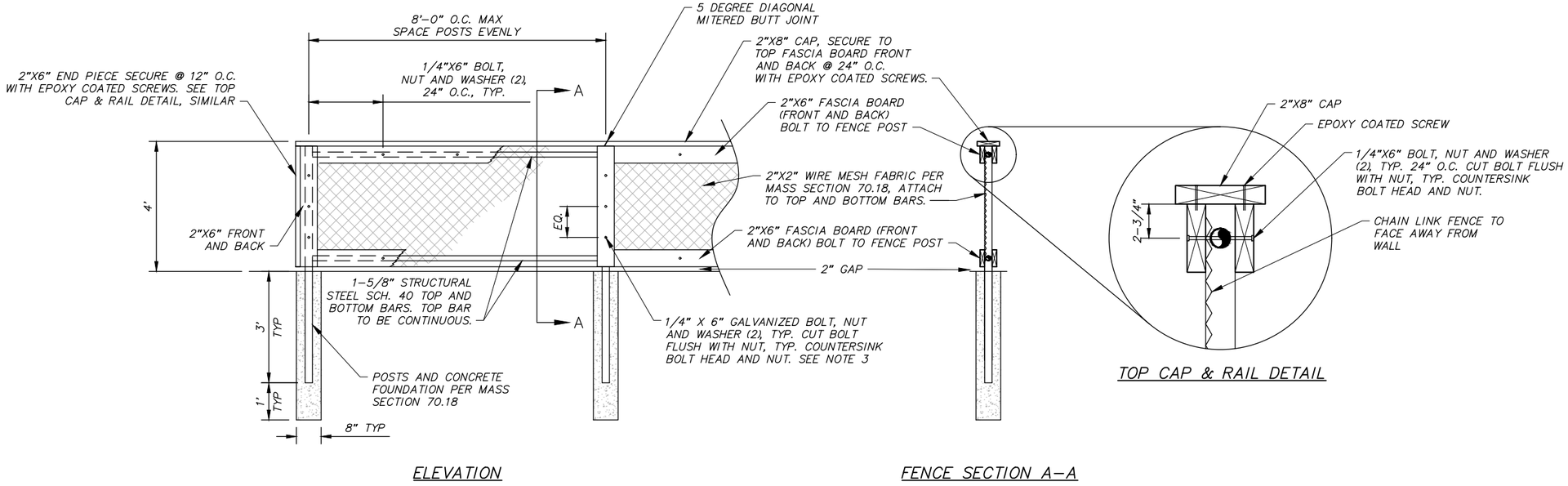
18-06 — 42ND AVENUE UPGRADE – PHASE 1 — LAKE OTIS PARKWAY TO PIPER STREET — SCHED A

ROADWAY DETAILS

CLUSTER MAILBOX PCC BASE & SEWER PIPE TRENCH DETAIL FOR INSULATION

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D9 of D12

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg

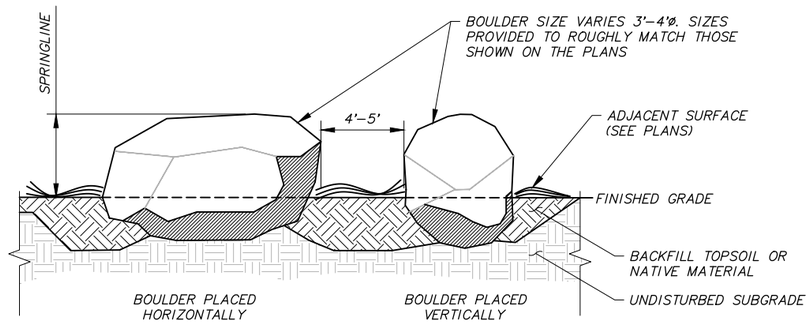


1 **WOOD CLAD CHAIN LINK FENCE DETAIL**

SCALE: NTS

WOOD CLAD CHAIN LINK FENCE NOTES:

1. ALL LUMBER TO BE PRESSURE TREATED.
2. ALL STEEL HARDWARE TO BE GALVANIZED. ALL FENCE FABRIC, HARDWARE, AND COMPONENTS SHALL BE VINYL COATED BLACK.
3. THREE BOLTS PER POST FASCIA BOARD, TYP. CENTER BOLT GROUP VERTICALLY ON BOARD.



2 **BOULDER DETAIL**

SCALE: NTS

BOULDER NOTES:

1. BOULDERS PLACED WITHIN SITE DISTANCE TRIANGLES SHALL HAVE A MAXIMUM HEIGHT OF 18" ABOVE GRADE.
2. MAX. 2/3 BOULDER HEIGHT ABOVE GROUND, MIN. 1/3 HEIGHT.
3. FILL TO ENSURE NO GAPS BELOW SPRINGLINE
4. STAGGER BOULDERS 7'-10' FROM TOP BACK OF CURB WHILE MAINTAINING A 2' CLEAR DISTANCE FROM EDGE OF PATHWAY AS SHOWN ON THE PLANS..

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TOPOGRAPHY	TS	AR
PROFILE	RB	JK
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TELEPHONE	TS	AR
ELECTRIC	JH	TK
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PRELIMINARY/FINAL	RB	JK
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CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
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LAKE OTIS PARKWAY TO PIPER STREET

ROADWAY DETAILS

FENCE AND BOULDERS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D10 of D12

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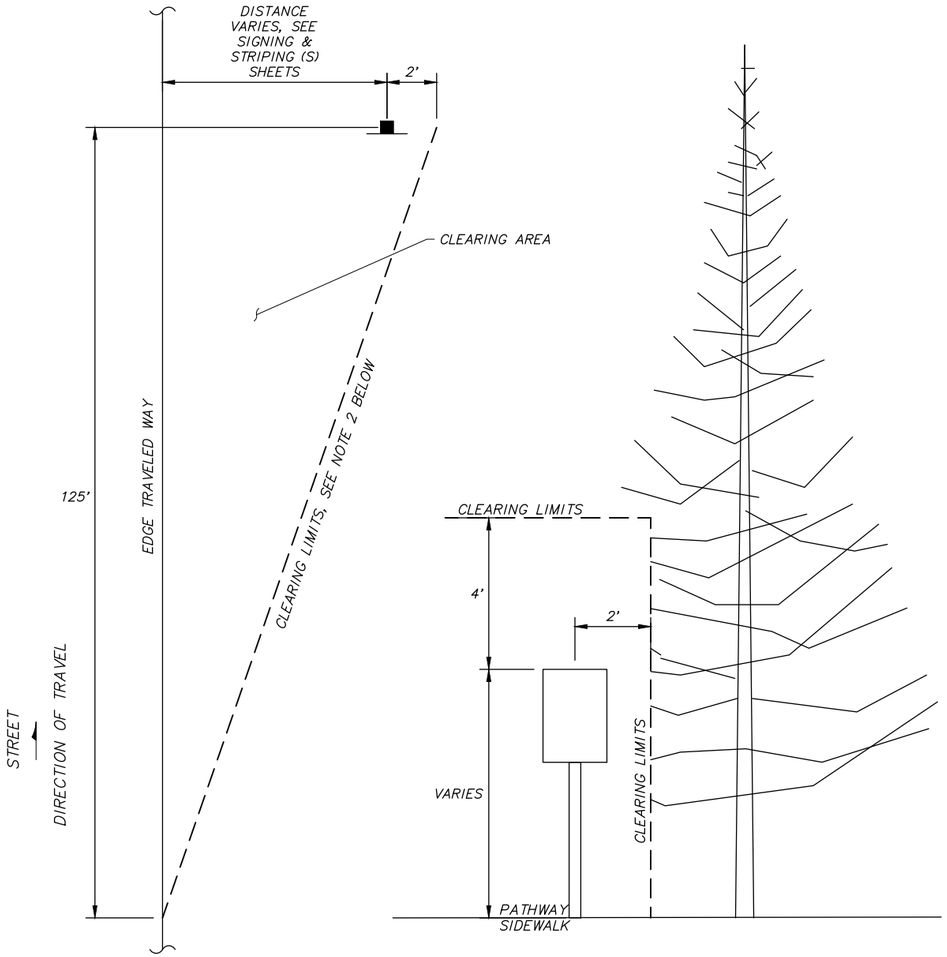


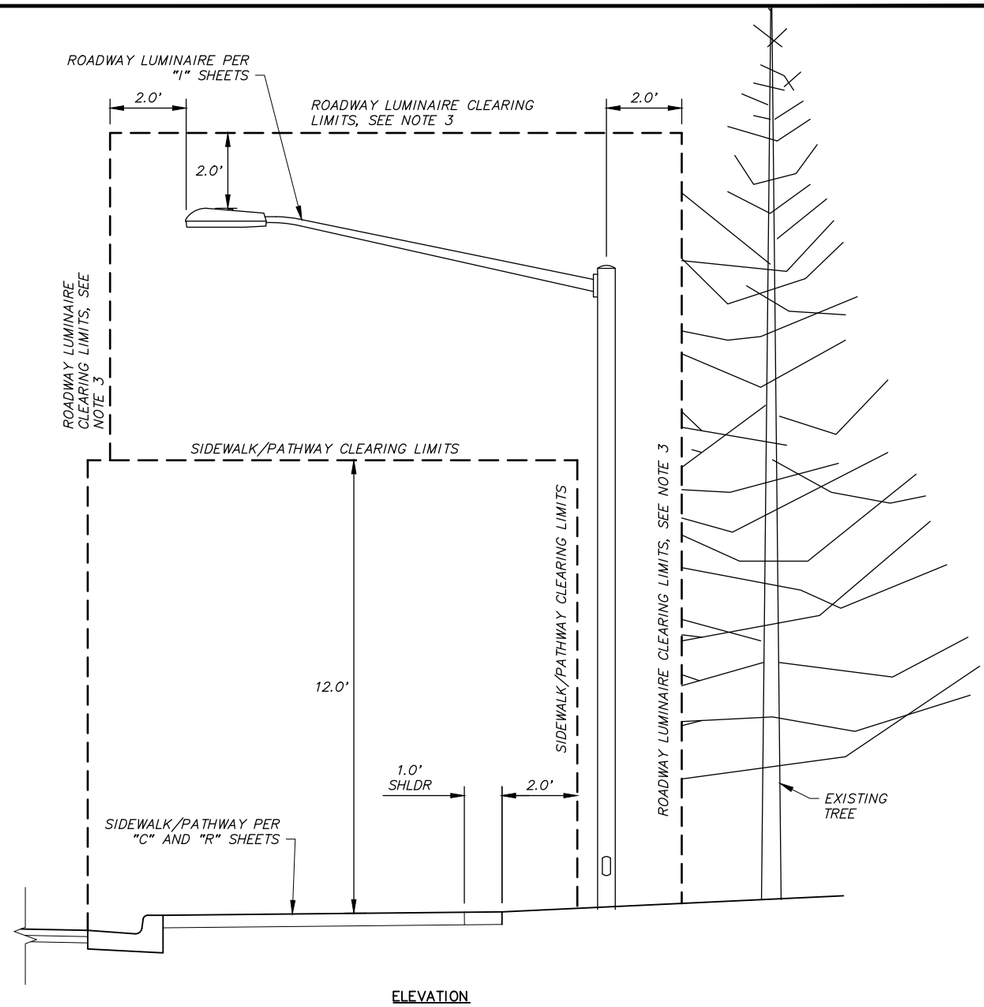
PLAN ELEVATION

SIGN SIGHT DISTANCE CLEARING DETAIL NOTES:

1. *SIGN SIGHT DISTANCE CLEARING SHALL BE INCIDENTAL TO SECTION 20.04 CLEARING AND GRUBBING PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.*
2. *MAINTAIN CLEARING LIMITS WITHIN AVAILABLE RIGHT-OF-WAY.*
3. *ALL CLEARING ACTIVITIES SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST AND FOLLOW ANSI A300, PART 1, STANDARD PRACTICES AND ANSI Z133.1, ARBORICULTURAL OPERATIONS SAFETY.*

1 **SIGN SIGHT DISTANCE CLEARING DETAIL**

SCALE: NTS



ELEVATION

SIDEWALK/PATHWAY AND ROADWAY LUMINAIRE CLEARING DETAIL NOTES:

1. *SIDEWALK/PATHWAY AND ROADWAY LUMINAIRE CLEARING SHALL BE INCIDENTAL TO SECTION 20.04 CLEARING AND GRUBBING PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.*
2. *MAINTAIN CLEARING LIMITS WITHIN AVAILABLE RIGHT-OF-WAY OR TCP.*
3. *ROADWAY LUMINAIRE CLEARING LIMITS SHALL INCLUDE 20 FEET UP STATION AND DOWN STATION ALONG THE ROADWAY.*
4. *ALL CLEARING ACTIVITIES SHALL BE PERFORMED BY AN ISA CERTIFIED ARBORIST AND FOLLOW ANSI A300, PART 1, STANDARD PRACTICES AND ANSI Z133.1, ARBORICULTURAL OPERATIONS SAFETY.*

2 **SIDEWALK/PATHWAY AND ROADWAY LUMINAIRE CLEARING DETAIL**

SCALE: NTS

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CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
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LAKE OTIS PARKWAY TO PIPER STREET

ROADWAY DETAILS

CLEARING DETAILS

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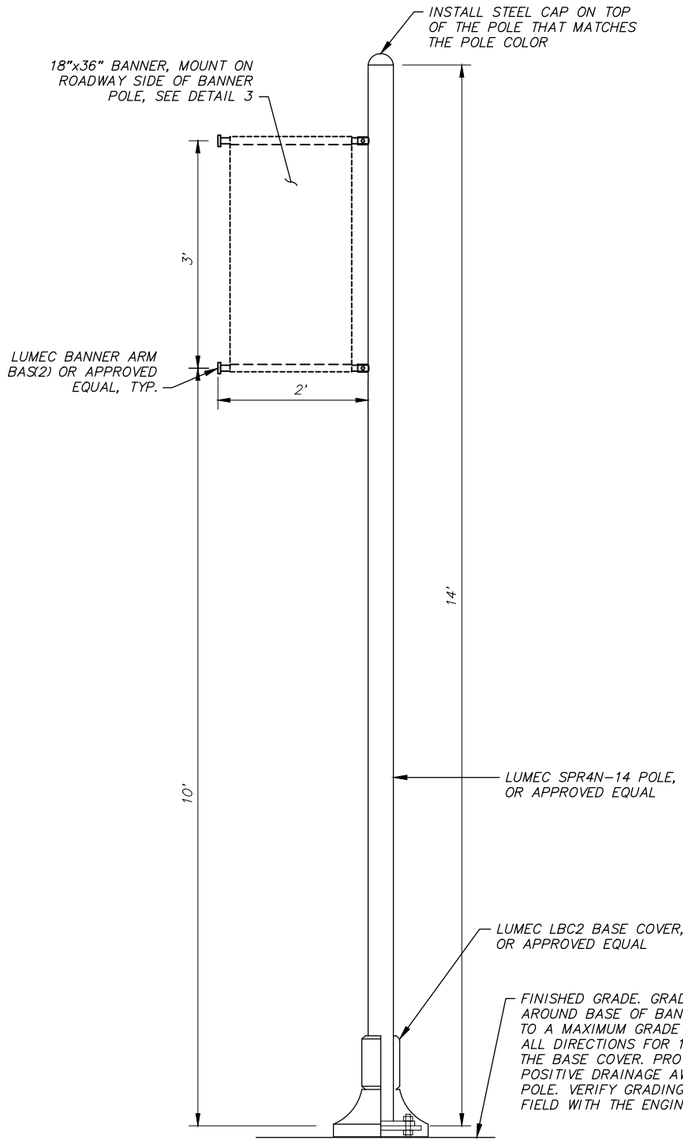
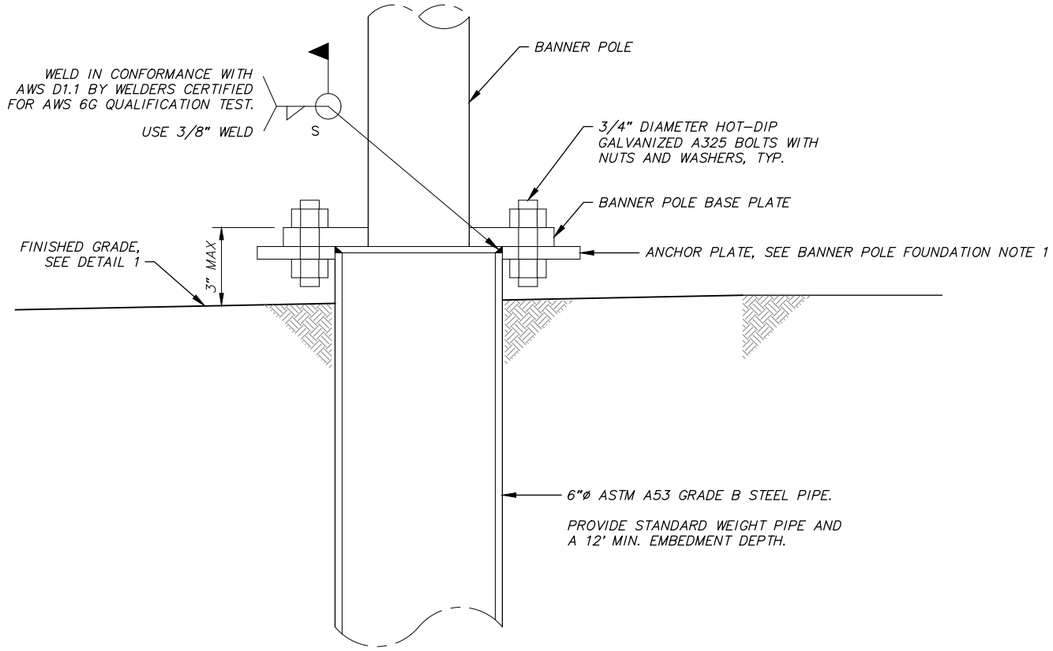


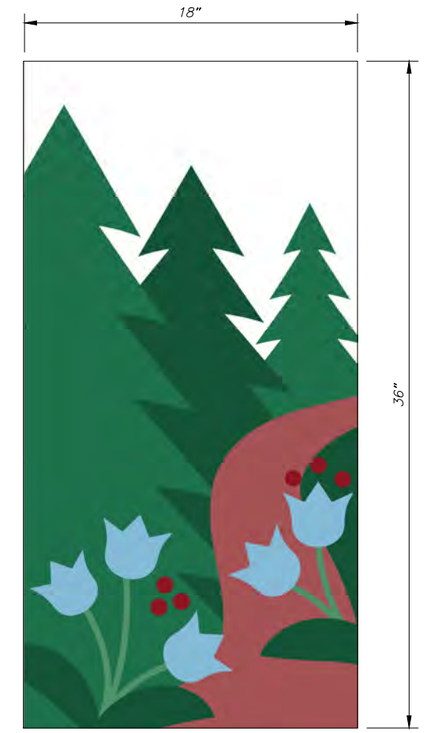
1 **BANNER POLE ELEVATION VIEW**
SCALE: NTS



BANNER POLE FOUNDATION NOTE:

1. SET ONE HALF THE ANCHOR PLATE'S THICKNESS ON THE PIPE PILE BEFORE WELDING IT INTO POSITION.

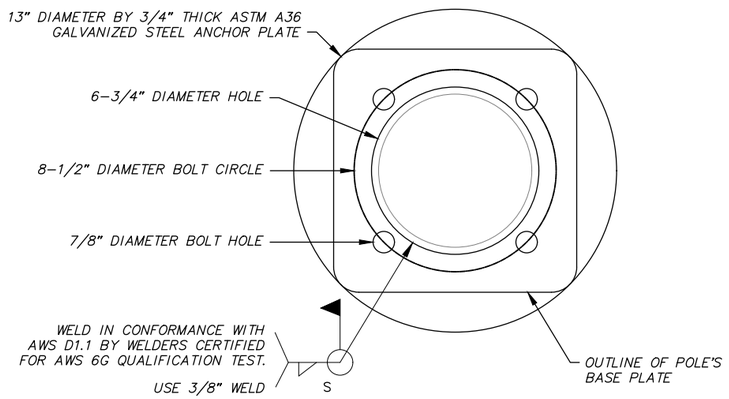
2 **BANNER POLE FOUNDATION**
SCALE: NTS



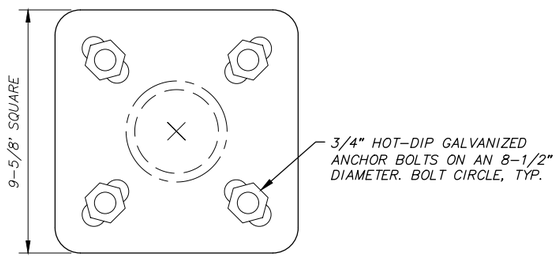
BANNER DESIGN NOTE:

1. BANNER DESIGN SHALL BE IDENTICAL ON BOTH SIDES OF BANNER.

3 **BANNER DESIGN**
SCALE: NTS



4 **ANCHOR PLATE DETAIL**
SCALE: NTS



5 **POLE BASE PLATE DETAIL**
SCALE: NTS

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TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20
BASIS OF THIS DATUM GAAB 1972 ADJUST		

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA 49 TH STATE — Justin T. Keene CE-11775 — REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

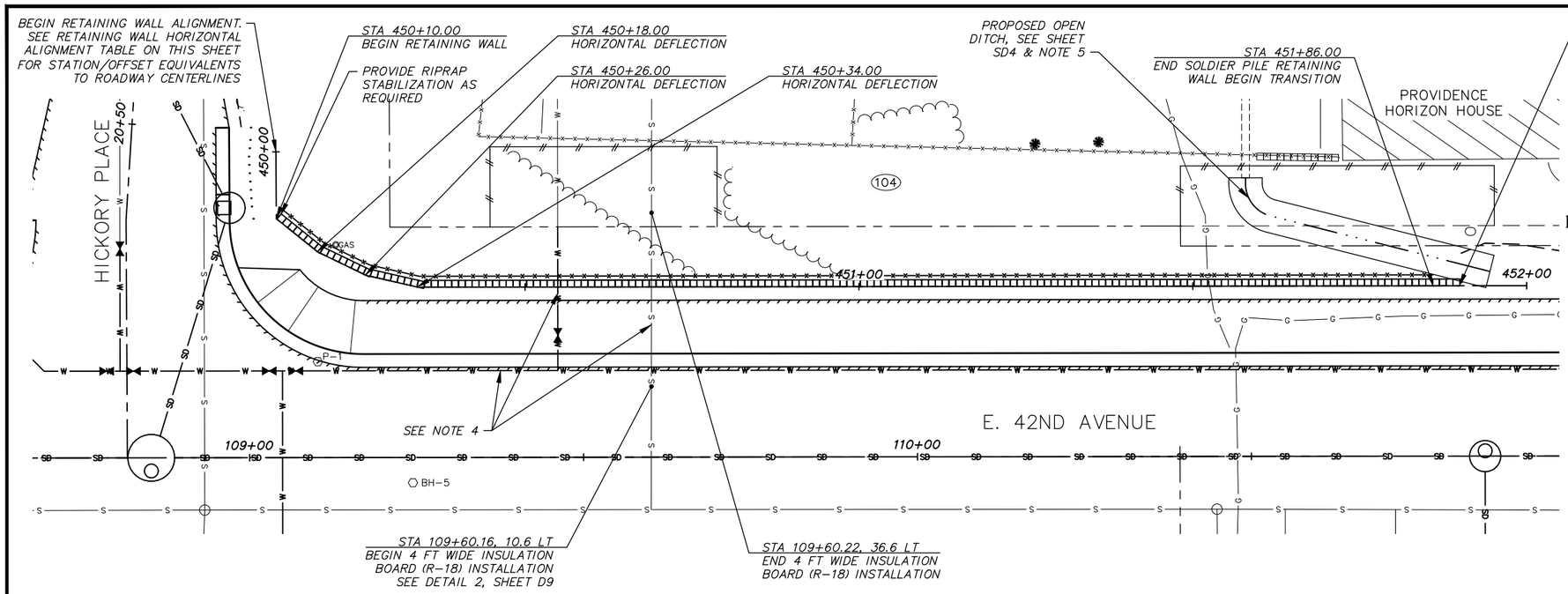
18-06 — 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET — SCHED A

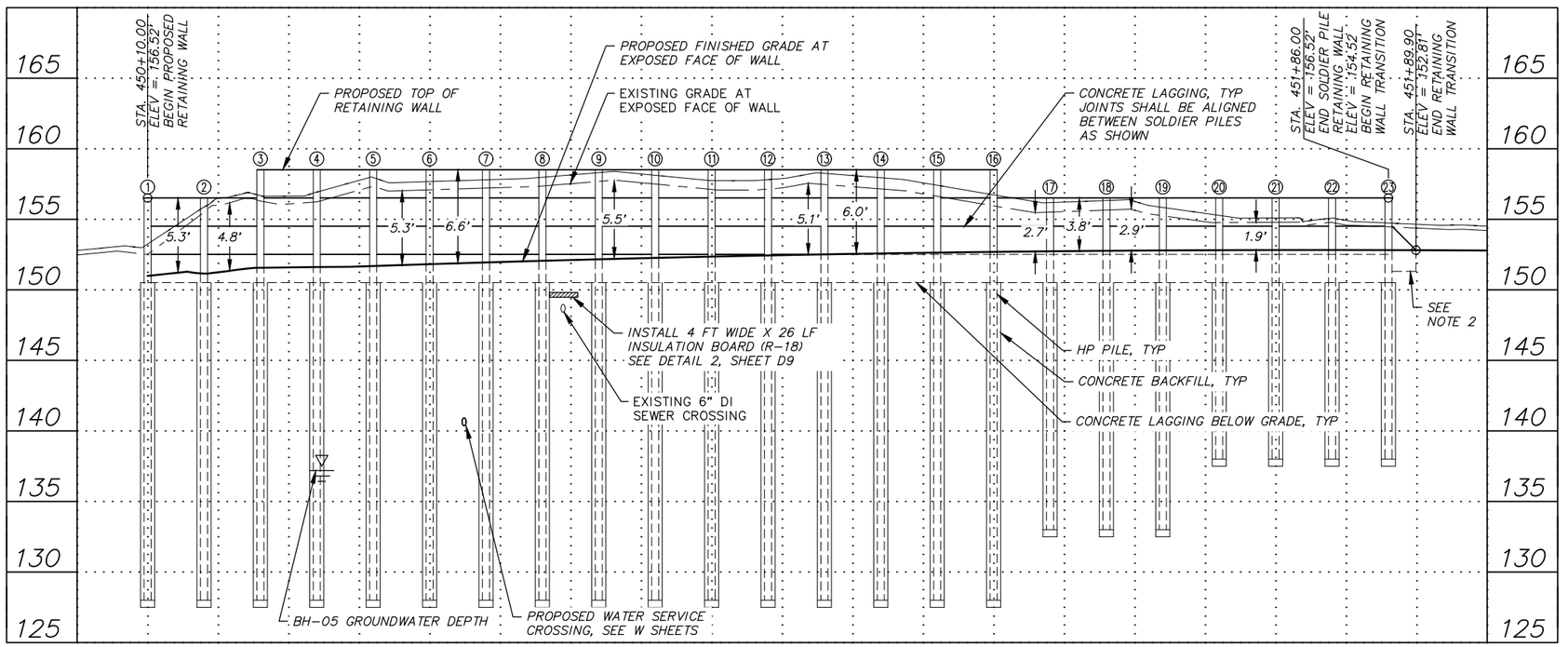
ROADWAY DETAILS

BANNER POLE AND BANNER DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET D12 of D12

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg





SHEET NOTES:

1. SEE SHEET RW2 & RW3 FOR TYPICAL RETAINING WALL SECTIONS & DETAILS.
2. SEE DETAIL 3, ON SHEET RW3 FOR RETAINING WALL TRANSITION.
3. SEE DETAIL 3, SHEET RW3 FOR PANEL SECTIONS AT HORIZONTAL DEFLECTIONS.
4. THE CONTRACTOR SHALL INSTALL THE PROPOSED WATER MAIN, PROPOSED WATER SERVICE AND INSULATION FOR EXISTING SEWER SERVICE PRIOR TO BEGINNING CONSTRUCTION OF THE RETAINING WALL. AFTER ABOVE MENTIONED WORK IS COMPLETED AND ACCEPTED, CONTRACTOR SHALL EXCAVATE WITH A VACTOR TRUCK EACH ADJACENT PILE NEXT TO THE PARCEL 104 WATER/SEWER SERVICES TO A POINT PAST THE SERVICE ELEVATIONS TO ENSURE NO CONFLICTS PRIOR TO DRILLING HOLES FOR THE PILES.
5. THE CONTRACTOR SHALL CONSTRUCT THE OPEN DITCH NORTH OF THE SOLDER PILE RETAINING WALL PRIOR TO CONSTRUCTION OF THE SOLDIER PILE RETAINING WALL. THE OPEN DITCH NORTH OF THE RETAINING WALL TRANSITION SHALL BE CONSTRUCTED AFTER THE RETAINING TRANSITION HAS BEEN INSTALLED.

RETAINING WALL HORIZONTAL ALIGNMENT TABLE

RETAINING WALL		HICKORY PLACE		E. 42ND AVENUE	
STATION	OFFSET	STATION	OFFSET	STATION	OFFSET
450+00.00	CL	20+47.20	21.77 RT	–	–
450+10.00	CL	20+37.23	22.45 RT	–	–
450+18.00	CL	20+30.66	28.71 RT	–	–
450+26.00	CL	20+27.14	35.90 RT	–	–
450+34.00	CL	20+25.32	43.68 RT	109+25.26	25.50 LT
452+00.00	CL	–	–	110+91.26	25.50 LT

SOLDIER PILE ELEVATION TABLE

PILE	TOP OF STEEL ELEVATION (TOS)	BOTTOM OF STEEL ELEVATION (BOS)
1	156.52	128.00
2	156.52	128.00
3	158.52	128.00
4	158.52	128.00
5	158.52	128.00
6	158.52	128.00
7	158.52	128.00
8	158.52	128.00
9	158.52	128.00
10	158.52	128.00
11	158.52	128.00
12	158.52	128.00
13	158.52	128.00
14	158.52	128.00
15	158.52	128.00
16	158.52	128.00
17	156.52	133.00
18	156.52	133.00
19	156.52	133.00
20	156.52	138.00
21	156.52	138.00
22	156.52	138.00
23	156.52	138.00

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
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   COMPANY: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

STATE OF ALASKA 49 TH
Steven M. Halcomb
CE-12939
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

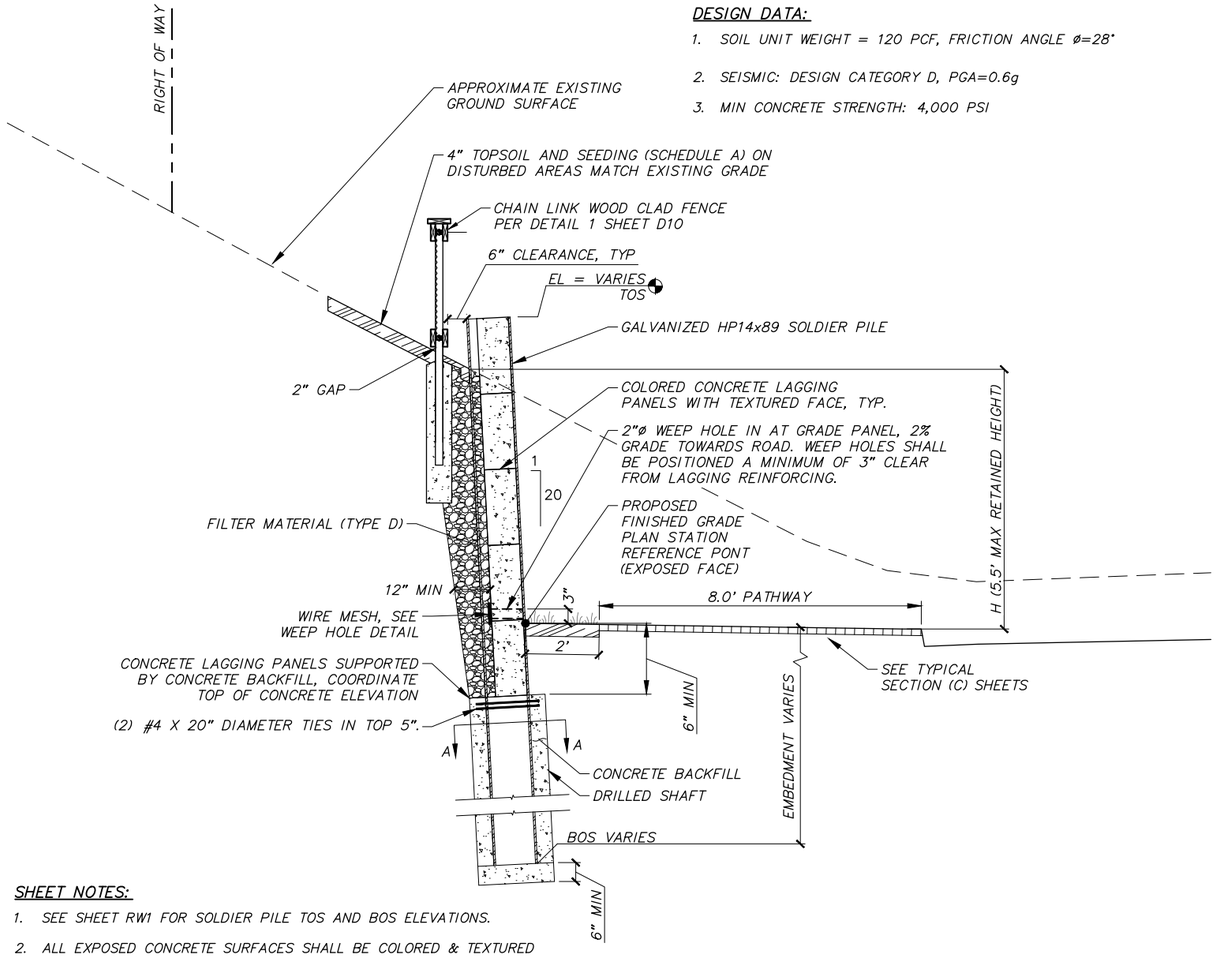
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 SCHED A
LAKE OTIS PARKWAY TO PIPER STREET

RETAINING WALL PLAN & PROFILE

SCALE HOR. 1"=10' VER. 1"=5' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET RW1 of RW3

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Retaining Wall Plan & Profile_Phase 1.dwg



DESIGN DATA:

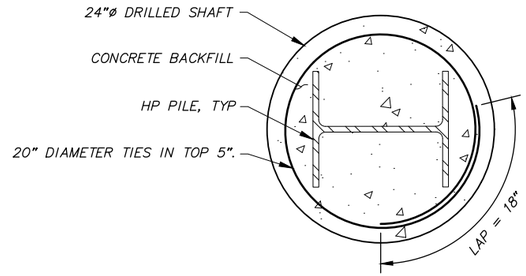
1. SOIL UNIT WEIGHT = 120 PCF, FRICTION ANGLE ø=28°
2. SEISMIC: DESIGN CATEGORY D, PGA=0.6g
3. MIN CONCRETE STRENGTH: 4,000 PSI

SHEET NOTES:

1. SEE SHEET RW1 FOR SOLDIER PILE TOS AND BOS ELEVATIONS.
2. ALL EXPOSED CONCRETE SURFACES SHALL BE COLORED & TEXTURED INCLUDING BOTH FACES OF TOP LAGGING PANEL. ALL CONCRETE SHALL BE INTEGRALLY COLORED PER THE SPECIFICATIONS.

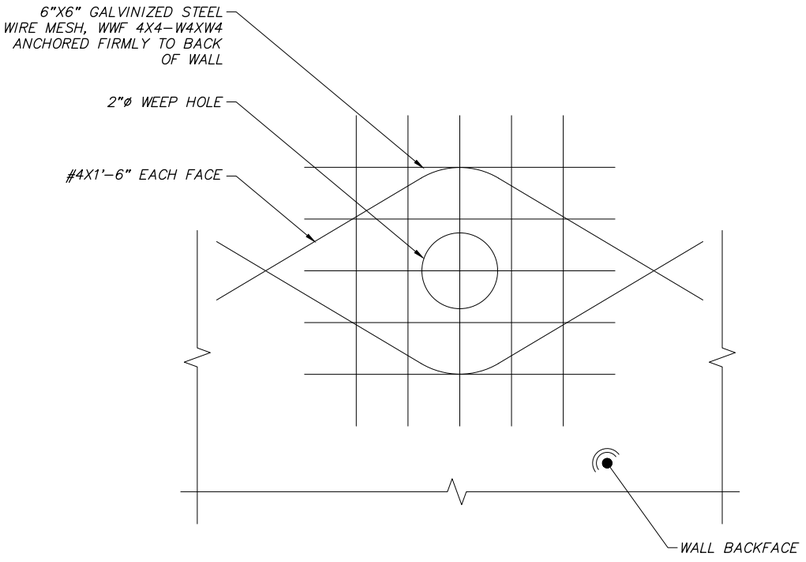
1 TYPICAL SOLDIER PILE WALL SECTION

SCALE: NTS



2 SOLDIER PILE SECTION A-A

SCALE: NTS



3 WEEP HOLE DETAIL

SCALE: NTS

RECORD DRAWING

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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PHONE: (907) 562–3252
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MUNICIPALITY OF ANCHORAGE

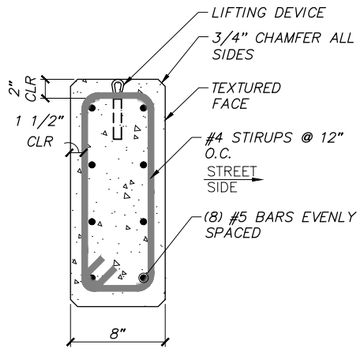
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18–06 — 42ND AVENUE UPGRADE – PHASE 1 — LAKE OTIS PARKWAY TO PIPER STREET — SCHED A

RETAINING WALL DETAILS

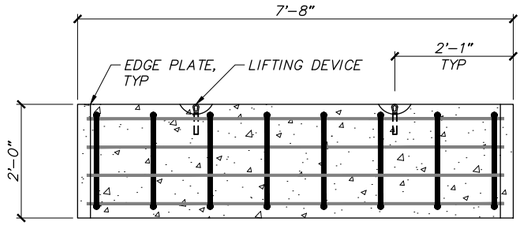
SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET RW2 of RW3

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Retaining Wall Details_Phase 1.dwg



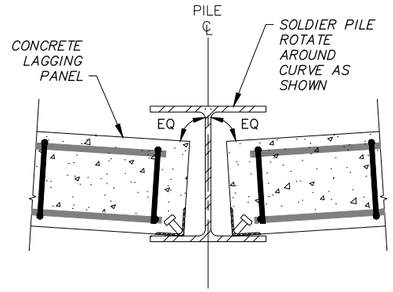
1 TYPICAL CONCRETE LAGGING PANEL SECTION

SCALE: NTS



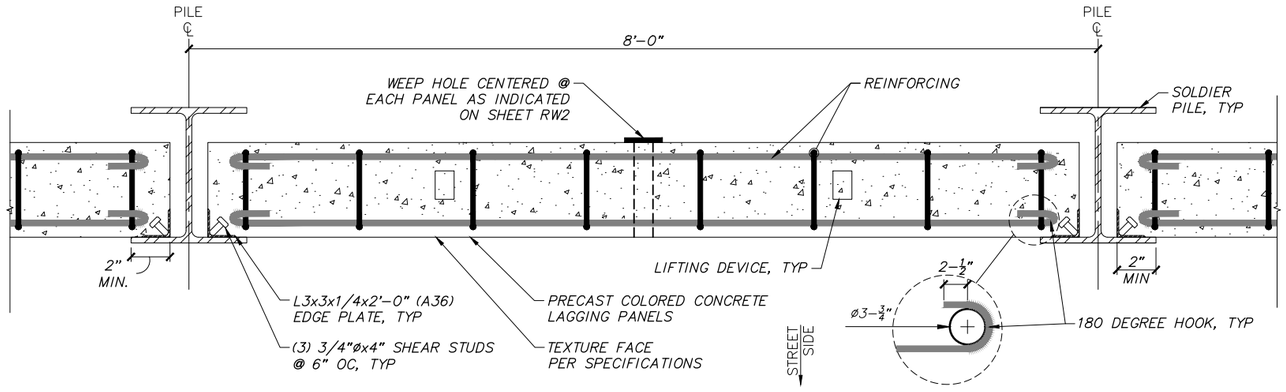
2 TYPICAL CONCRETE LAGGING PANEL ELEVATION

SCALE: NTS



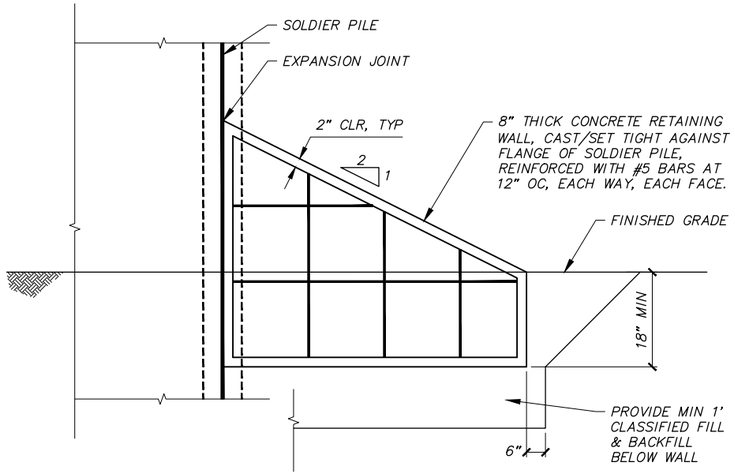
3 SOLDIER PILE & PANEL DETAIL @ HORIZONTAL DEFLECTIONS

SCALE: NTS



4 TYPICAL SOLDIER PILE WALL PLAN VIEW

SCALE: NTS



5 TRANSITION DETAIL

SCALE: NTS

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Retaining Wall Details_Phase 1.dwg

RECORD DRAWING

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   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#ACCL882-AK

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Nicholas J. Choromanski
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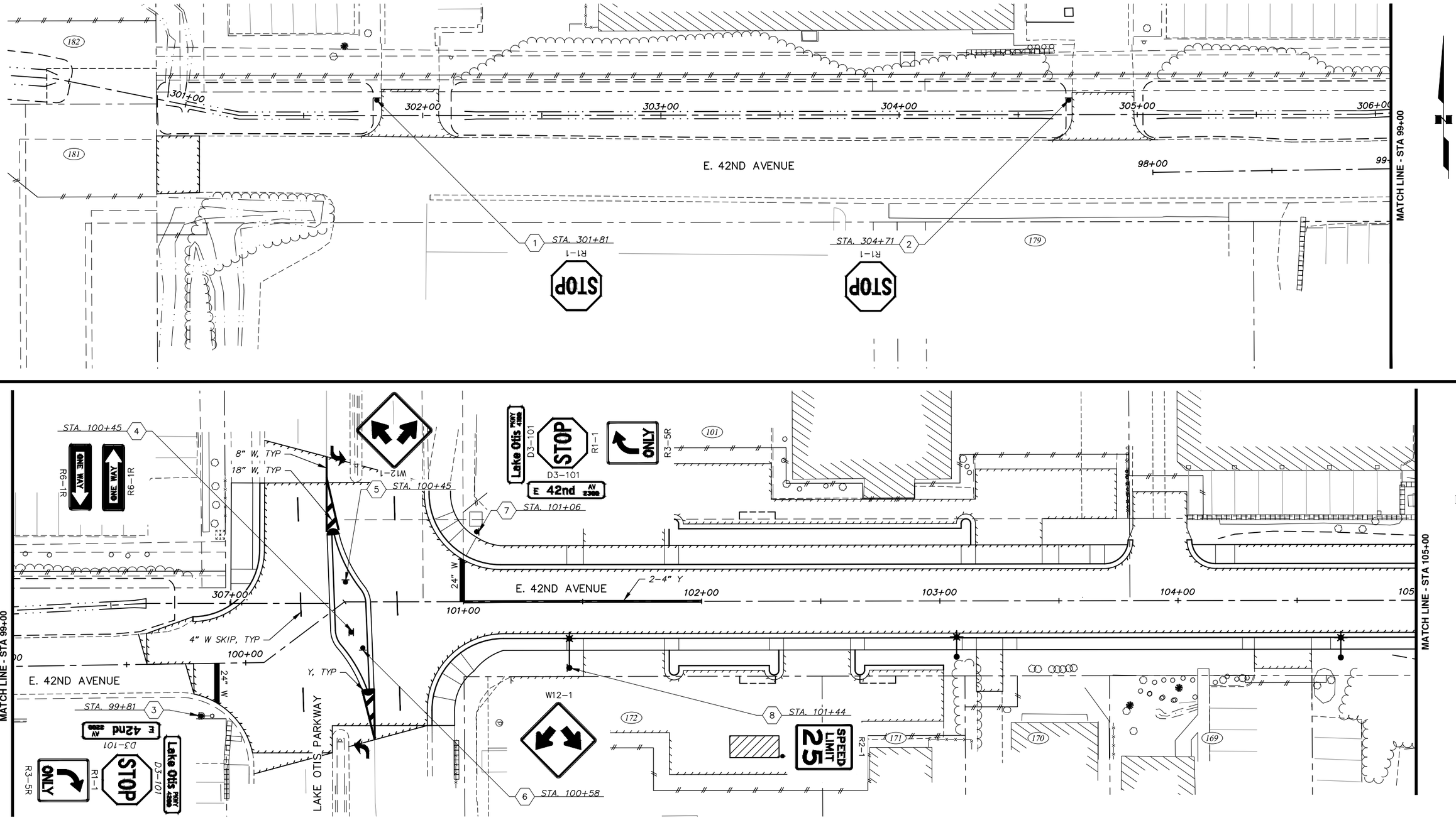
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED A

RETAINING WALL DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET RW3 of RW3



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DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

STATE OF ALASKA 49 TH
Robert W. Burdick
CE-123959
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

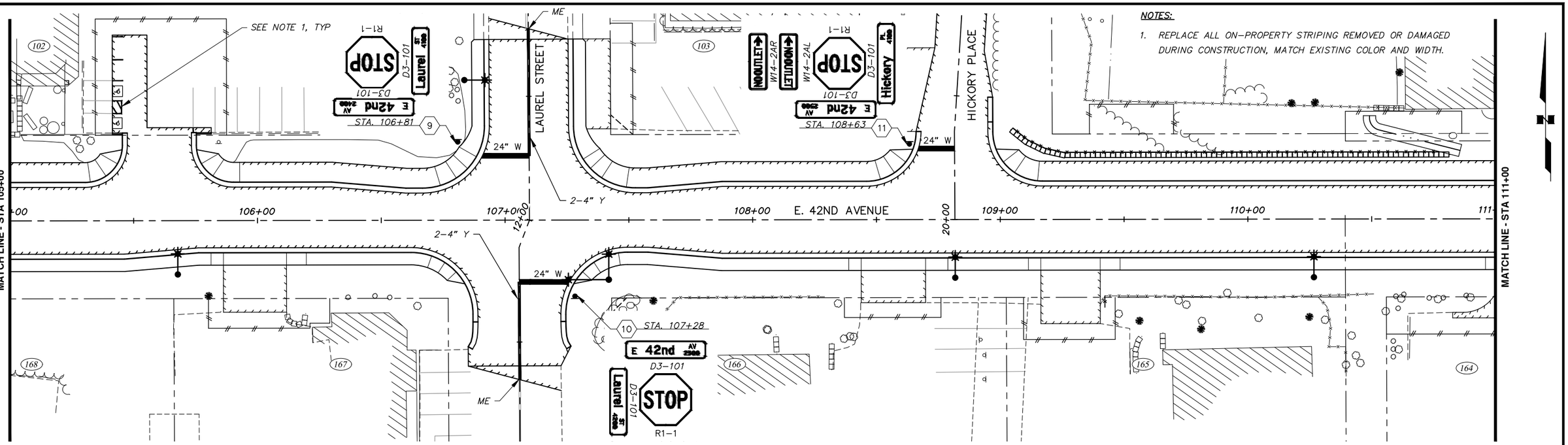
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED A
LAKE OTIS PARKWAY TO PIPER STREET

SIGNING & STRIPING

STA 98+00 TO STA 105+00

SCALE HOR. 1"=20' VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET S1 of S4



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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
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WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC 40 20 0 20 40 SCALE

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
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ASBUILT			
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VERTICAL DATUM

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

NO.	DATE	DESCRIPTION	BY

CONSULTANT

CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
@ECL882-AK

SEAL

STATE OF ALASKA 49 TH
Robert W. Burdick
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REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

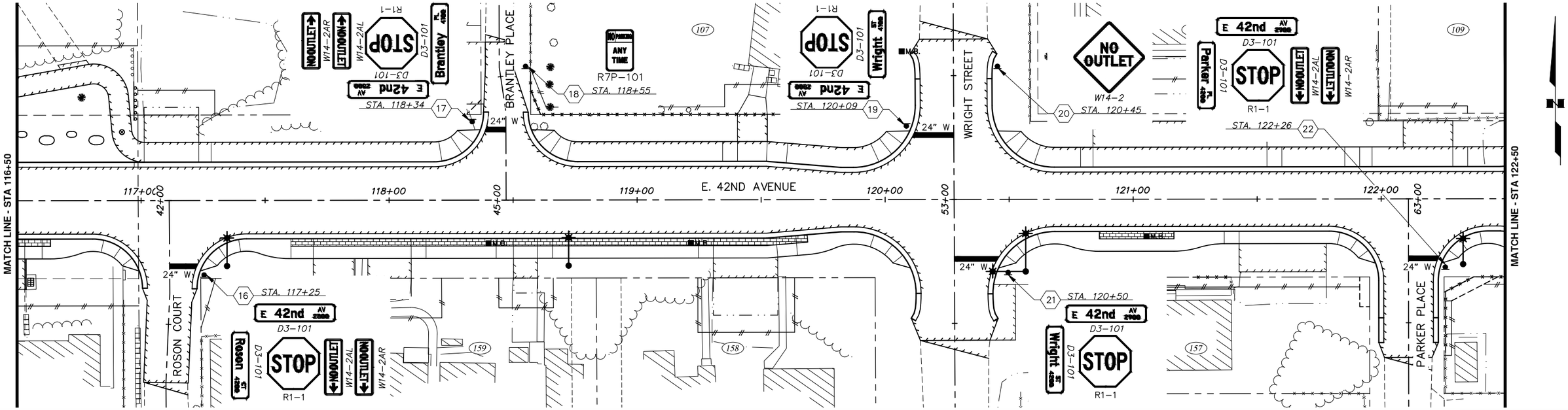
18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED A
LAKE OTIS PARKWAY TO PIPER STREET

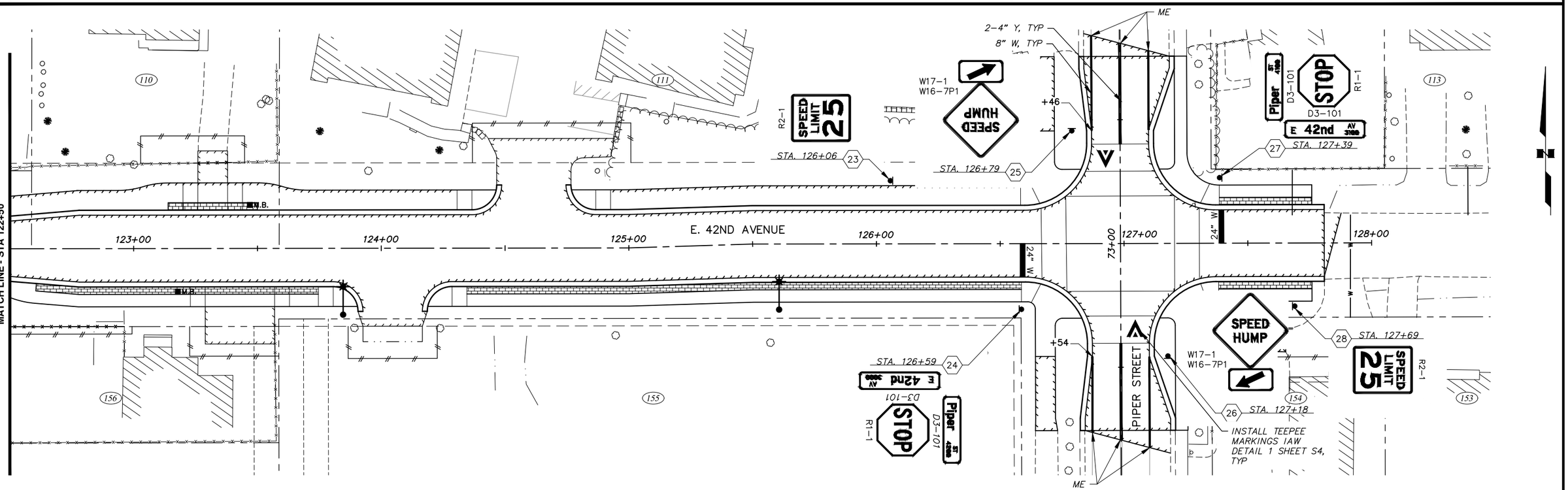
SIGNING & STRIPING

STA 105+00 TO STA 116+50

SCALE HOR. 1"=20' VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET S2 of S4

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Signing & Striping_Phase 1.dwg





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ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC 40 20 0 20 40 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
@ECL882-AK

CONSULTANT

STATE OF ALASKA 49 TH
Robert W. Burdick
CE-123959
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED A
LAKE OTIS PARKWAY TO PIPER STREET

SIGNING & STRIPING

STA 116+50 TO STA 126+00

SCALE HOR. 1"=20' VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET S3 of S4

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Signing & Striping_Phase 1.dwg

STANDARD SIGN

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
S1	1	301+81	6.5 LT	R1-1	STOP	30	30	6.25	N	2.5" PST	
	2	304+71	6.1 LT	R1-1	STOP	30	30	6.25	N	2.5" PST	
	3	99+81	22.0 RT	D3-101	E 42ND AV 2200	36	12	3.00	N/S	MOUNT ON LIGHT POLE	ONE DOUBLE SIDED PANEL
				D3-101	LAKE OTIS PKWY 4200	36	8	2.00	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	W		
				R3-5R	RIGHT TURN ONLY	36	30	7.50	W		
	4	100+45	11.9 RT	R6-1R	ONE WAY	36	12	6.00	E/W	2.5" PST	MOUNT 2 SIGNS BACK TO BACK
	5	100+50	8.3 LT	W12-1	DOUBLE ARROW	30	30	6.25	N	2.5" PST	
	6	100+58	19.4 RT	W12-1	DOUBLE ARROW	30	30	6.25	S	2.5" PST	
	7	101+06	29.4 LT	D3-101	E 42ND AV 2300	36	12	3.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	LAKE OTIS PKWY 4100	36	8	2.00	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	E		
				R3-5R	RIGHT TURN ONLY	36	30	7.50	E		
	8	101+44	27.9 RT	R2-1	SPEED LIMIT 25	24	30	5.00	W	–	MOUNT ON LIGHT POLE
S2	9	106+81	31.6 LT	D3-101	E 42ND AV 2400	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	LAUREL ST 4100	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
	10	107+28	30.8 RT	D3-101	E 42ND AV 2500	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	LAUREL ST 4200	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	S		
	11	108+63	30.6 LT	D3-101	E 42ND AV 2500	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	HICKORY PL 4100	36	8	2.00	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
				W14-2AL	NO OUTLET	36	8	2.00	W		MOUNT SIGNS BACK TO BACK
				W14-2AR	NO OUTLET	36	8	2.00	E		
	12	113+37	23.3 RT	D3-101	E 42ND AV 2600	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	FOLKER ST 4200	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	W		
				R1-3P	ALL WAY	18	6	0.75	W		
	13	113+45	34.6 LT	D3-101	E 42ND AV 2600	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	FOLKER ST 4100	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
				R1-3P	ALL WAY	18	6	0.75	N		
	14	113+86	31.9 RT	D3-101	E 42ND AV 2700	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	FOLKER ST 4200	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	S		
				R1-3P	ALL WAY	18	6	0.75	S		
	15	114+03	17.9 LT	D3-101	E 42ND AV 2700	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	FOLKER ST 4100	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	E		
				R1-3P	ALL WAY	18	6	0.75	E		
S3	16	117+25	30.1 RT	D3-101	E 42ND AV 2800	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	ROSON CT 4200	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	S		
				W14-2AL	NO OUTLET	36	8	2.00	E		MOUNT SIGNS BACK TO BACK
				W14-2AR	NO OUTLET	36	8	2.00	W		
	17	118+34	31.7 LT	D3-101	BRANTLEY PL 4100	36	8	2.00	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	E 42ND AV 2800	36	8	2.00	N/S		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
				W14-2AL	NO OUTLET	36	8	2.00	W		MOUNT SIGNS BACK TO BACK
				W14-2AR	NO OUTLET	36	8	2.00	E		

STANDARD SIGN (CONT.)

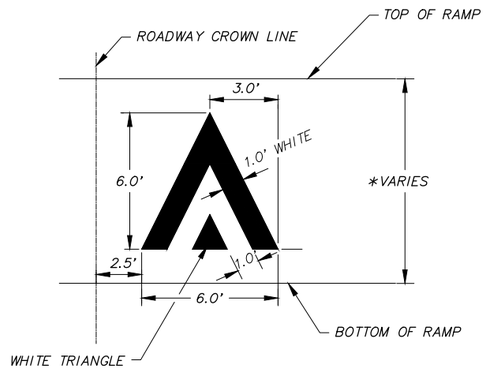
SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
S3	18	18+55	54.0 LT	R7P-101	NO PARKING ANY TIME	12	18	1.50	S	2.5" PST	
	19	120+09	29.7 LT	D3-101	E 42ND AV 2800	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	WRIGHT ST 4100	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
	20	120+45	53.7 LT	W14-2	NO OUTLET	30	30	6.25	S	2.5" PST	
	21	120+50	29.5 RT	D3-101	E 42ND AV 2900	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	WRIGHT ST 4200	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	S		
	22	122+26	27.6 RT	D3-101	E 42ND AV 2900	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	PARKER PL 4200	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	S		
				W14-2AL	NO OUTLET	36	8	2.00	E		MOUNT SIGNS BACK TO BACK
				W14-2AR	NO OUTLET	36	8	2.00	W		
	23	126+06	25.5 LT	R2-1	SPEED LIMIT 25	24	30	5.00	E	2.5" PST	
	24	126+59	26.5 RT	D3-101	E 42ND AV 3000	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	PIPER ST 4200	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	W		
	25	126+79	45.6 LT	W17-1	SPEED HUMP	30	30	6.25	N	2.5" PST	
				W16-7P	ARROW (LEFT)	24	12	2.00	N		
	26	127+18	45.5 RT	W17-1	SPEED HUMP	30	30	6.25	S	2.5" PST	
				W16-7P	ARROW (LEFT)	24	12	2.00	S		
	27	127+39	26.5 LT	D3-101	E 42ND AV 3100	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	PIPER ST 4100	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	E		
	28	127+69	25.5 RT	R2-1	SPEED LIMIT 25	24	30	5.00	W	2.5" PST	

SIGNING NOTES:

1. *THE STATIONS INDICATED IN THE SIGN SUMMARY ARE APPROXIMATE. INSTALL SIGNS AND SIGN FOUNDATIONS PER MASS STANDARD DETAILS. BEFORE INSTALLING ANY SIGN, STAKE THE LOCATION OF ALL SIGNS FOR THE ENGINEER'S REVIEW AND APPROVAL.*
2. *PROVIDE PERFORATED STEEL TUBE (PST) SIGN POSTS OF THE SIZE INDICATED IN THE SIGN SUMMARY.*
3. *INSTALL THE POSTS FOR STOP SIGNS AT LOCATIONS THAT CONFORM TO MASS STANDARD DETAIL 70-18.*
4. *ALL STOP SIGNS AND STREET NAME SIGNS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.*
5. *INSTALL SIGNS ON LIGHT POLES PER MASS STANDARD DETAIL 70-30.*
6. *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.*

STRIPING NOTES:

1. *UNLESS OTHERWISE NOTED, PROVIDE METHYL METHACRYLATE PAINT OF THE COLORS AND WIDTHS SPECIFIED FOR THE TRAFFIC MARKINGS INDICATED IN THE DRAWINGS. CURB NOSE PAINT SHALL BE METHYL METHACRYLATE PAINT WITH 60 MILS THICKNESS. PROVIDE 125 MILS INLAID APPLICATION TRAFFIC MARKINGS. REPLACE ALL ON-PROPERTY STRIPING DAMAGED DURING CONSTRUCTION WITH TRAFFIC PAINT THAT MATCHES THE EXISTING COLOR AND WIDTH.*
2. *"W" REFERENCES WHITE MARKINGS, AND "Y" REFERENCES YELLOW MARKINGS.*
3. *ALL STRIPING SHALL CONFORM TO THESE CONTRACT DOCUMENTS AND THE STANDARD MASS DETAILS. ALL REVISIONS SHALL CONFORM TO THE LATEST EDITION OF THE ALASKA TRAFFIC MANUAL AND THE MUTCD.*
4. *DIMENSIONS REFERENCE CENTER OF STRIPE TO CENTER OF STRIPE OR EDGE OF PAVEMENT.*



*CENTER TEEPEE MARKING ON RAMP

PLAN VIEW

1 TEPEE MARKINGS FOR RAISED INTERSECTION
SCALE: NTS

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS	
DESIGN CRW BOOK No. 197, 198	
& 201	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
@ECL882-AK
CONSULTANT

STATE OF ALASKA 49 TH
Robert W. Burdick
CE-123959
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SEAL

MUNICIPALITY OF ANCHORAGE

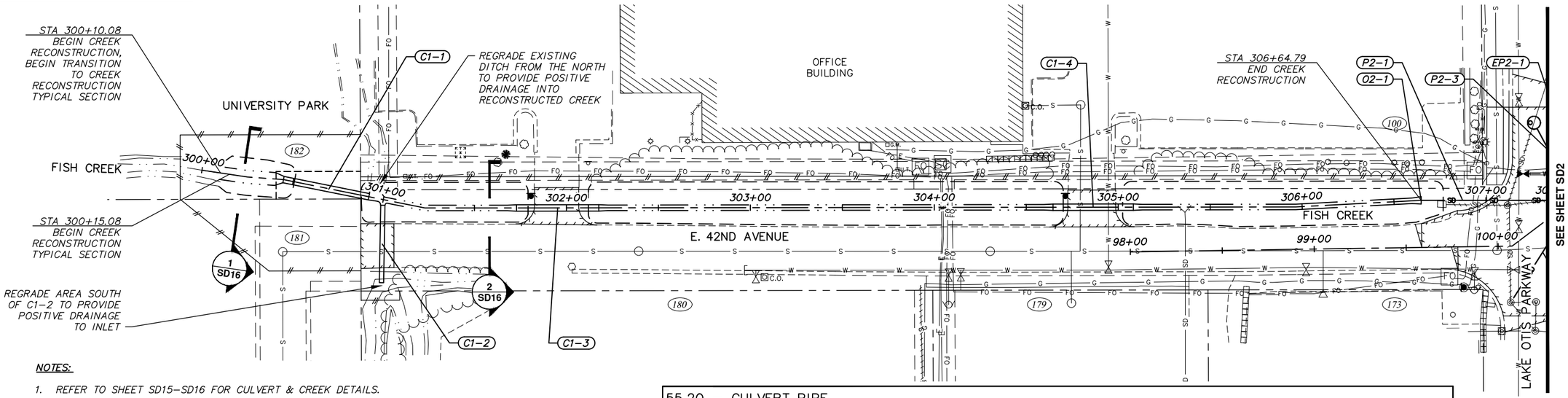
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 SCHED A
LAKE OTIS PARKWAY TO PIPER STREET

SIGNING & STRIPING

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET S4 of S4

File:J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Signing & Striping_Phase 1.dwg



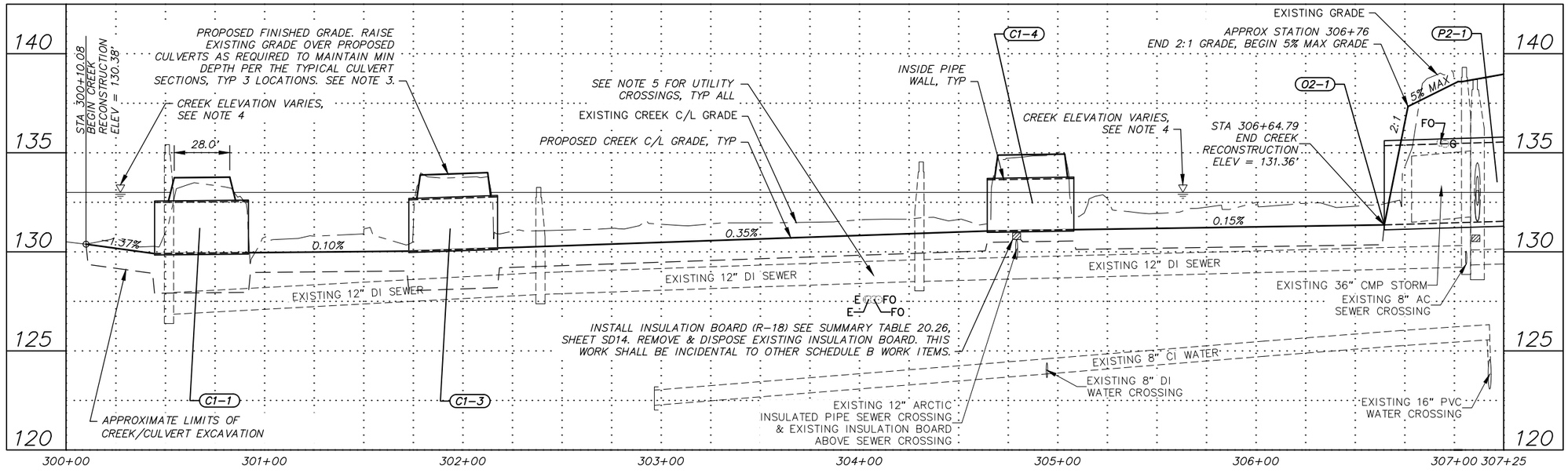
NOTES:

1. REFER TO SHEET SD15–SD16 FOR CULVERT & CREEK DETAILS.
2. REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.
3. SEE RECONSTRUCT DRIVEWAY SUMMARY TABLE ON SHEET T1 FOR PARCEL 100 DRIVEWAY RECONSTRUCTION INFORMATION. THE PARCEL 182 ACCESS OVER THE PROPOSED CULVERT SHALL BE CONSTRUCTED WITH MAX 12% GRADE TO MATCH INTO EXISTING GRADE NORTH AND SOUTH OF CULVERT AS DIRECTED BY ENGINEER IN THE FIELD.
4. CONTRACTOR SHALL DIVERT CREEK AND DITCHES AS REQUIRED TO MANAGE CREEK BACKWATER TO MINIMIZE IMPACTS FOR INSTALLATION OF CULVERTS AND STORM DRAIN IMPROVEMENTS.
5. CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.

55.20 – CULVERT PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	INLET STATION	INLET OFFSET	INLET INVERT ELEVATION (FT.)	OUTLET STATION	OUTLET OFFSET	OUTLET INVERT ELEVATION (FT.)	SLOPE
C1–1	40 X 31	PIPE–ARCH*	47.35	300+92.00	CL	129.96	300+44.65	CL	129.91	0.11%
C1–2	24	CPEP, S	42.07	301+07.89	44.44 RT	130.74	301+00.35	3.05 RT	130.00	1.76%
C1–3	40 X 31	PIPE–ARCH*	44.73	302+17.62	CL	130.19	301+72.89	CL	130.03	0.36%
C1–4	40 X 31	PIPE–ARCH*	43.67	305+08.24	CL	131.12	304+64.57	CL	131.05	0.16%

* PIPE SHALL BE ULTRA FLO PIPE–ARCH MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS, LLC OR APPROVED EQUAL.



RECORD DRAWING

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   CONTRACTOR: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

CONSTRUCTION RECORD

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
#AECL882–AK

CONSULTANT

STATE OF ALASKA 49 TH
Joseph C. Hegna
CE-11770
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SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

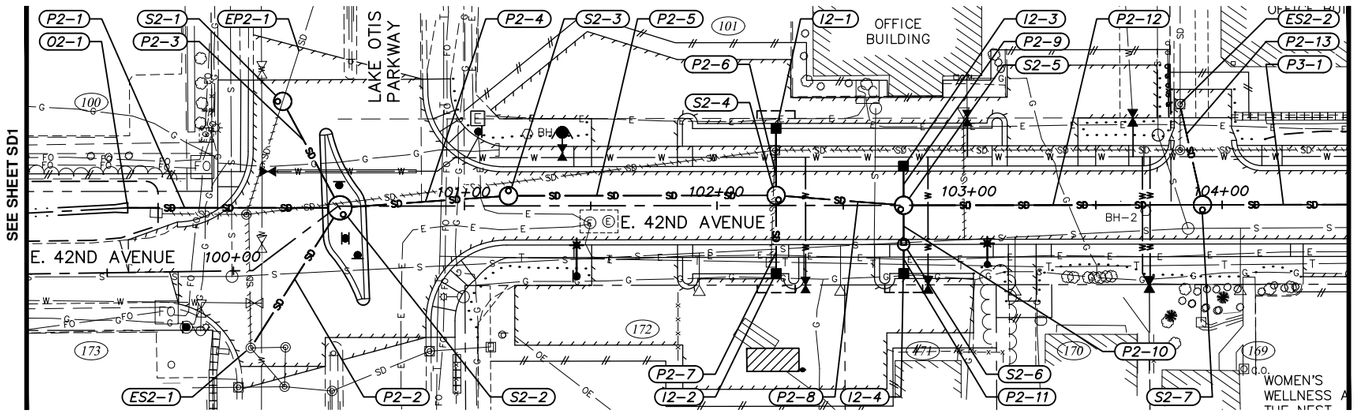
18–06 — 42ND AVENUE UPGRADE – PHASE 1 — LAKE OTIS PARKWAY TO PIPER STREET — SCHED B

STORM DRAIN PLAN & PROFILE

42ND AVENUE
STA 300+00 TO STA 307+25

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD1 of SD16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain–Plan & Profile_Phase 1.dwg



NOTES:

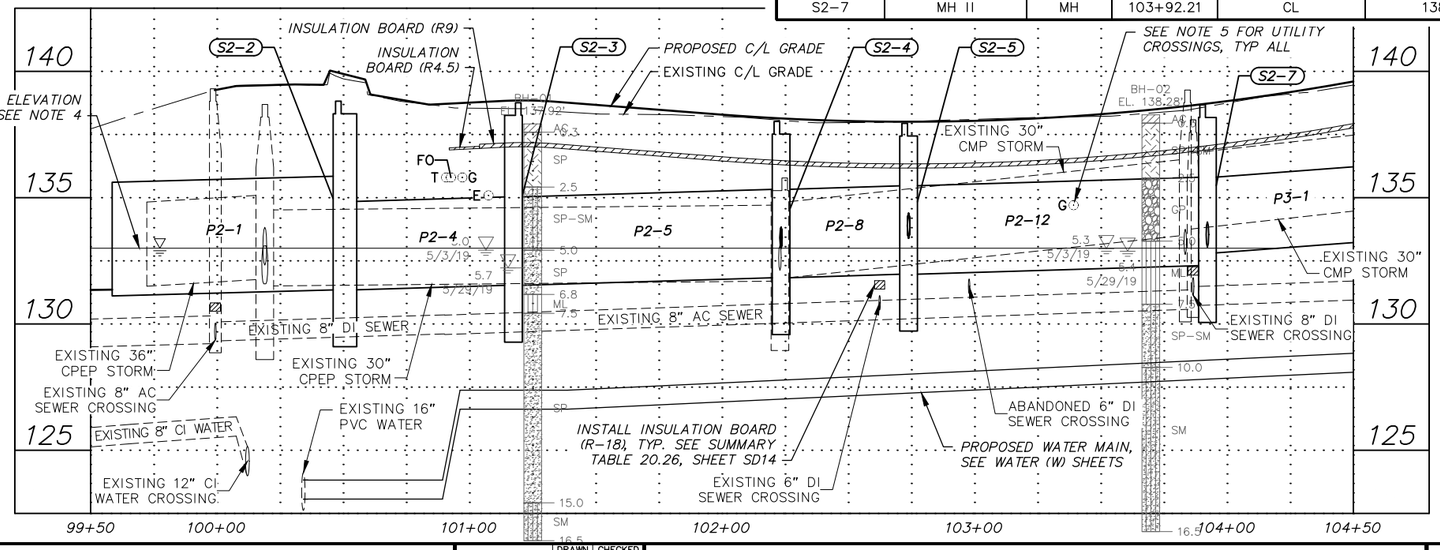
1. *CONNECTING STORM DRAIN STRUCTURES AND PIPES NOT SHOWN OR LABELED IN PROFILE FOR CLARITY.*
2. *REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.*
4. *CONTRACTOR SHALL DIVERT CREEK AND DITCHES AS REQUIRED TO MANAGE CREEK BACKWATER TO MINIMIZE IMPACTS FOR INSTALLATION OF CULVERTS AND STORM DRAIN IMPROVEMENTS.*
5. *CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.*

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P2–1	48	CPEP, S	84.02	S2–2	O2–1	131.60	131.36	0.30%
P2–2	18	CPEP, S	65.76	ES2–1	S2–2	133.00	132.15	1.45%
EP2–1	29x18	CMP	–	–	S2–1	–	131.7±	–
P2–3	24	CPEP, S	47.85	S2–1	S2–2	131.70	131.60	0.24%
P2–4	36	CPEP, S	66.89	S2–3	S2–2	131.78	131.60	0.30%
P2–5	36	CPEP, S	105.97	S2–4	S2–3	132.08	131.78	0.30%
P2–6	10	CPEP, S	26.50	I2–1	S2–4	133.07	133.00	0.33%
P2–7	10	CPEP, S	31.00	I2–2	S2–4	133.08	133.00	0.31%
P2–8	36	CPEP, S	50.64	S2–5	S2–4	132.22	132.08	0.31%
P2–9	12	CPEP, S	15.50	I2–3	S2–5	133.50	133.39	1.05%
P2–10	12	CPEP, S	15.50	S2–6	S2–5	133.50	133.39	1.05%
P2–11	10	CPEP, S	11.50	I2–4	S2–6	133.53	133.50	0.40%
P2–12	36	CPEP, S	118.33	S2–7	S2–5	132.56	132.22	0.30%
P2–13	12	CPEP, S	40.85	ES2–2	S2–7	133.40	133.04	1.00%

55.04, 55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
O2–1	OUTFALL	–	99+58.53	25.59' LT	–	N/A	SEE DETAIL 3 & 4, SHEET SD15
ES2–1	CONNECT	MH	100+06.36	30.60' RT	140.14	N/A	EXISTING MH – CONNECT PIPE P2–2
S2–1	MH II / CONNECT	MH	N: 327664.71	E: 356615.55	–		CONNECT PIPE EP2–1
S2–2	MH III (96" DIA)	MH	100+50.70	0.66' RT	139.81	N/A	
S2–3	MH II	MH	101+17.43	4.00' LT	138.39	N/A	
S2–4	MH II	MH	102+23.40	4.00' LT	138.02	N/A	
I2–1	CB (RED)	CI	102+23.40	30.50' LT	136.66	1	SEE DETAIL 1, SHEET SD12
I2–2	CB (RED)	CI	102+23.40	27.00' RT	136.83	1	SEE DETAIL 1, SHEET SD12
S2–5	MH II	MH	102+73.88	CL	137.92	N/A	
I2–3	CB	CI	102+73.88	15.50' LT	138.00	1	
S2–6	CB MH I	CI	102+73.88	15.50' RT	138.00	1	SEE DETAIL 4, SHEET SD12. CONSTRUCT STRUCTURE WITH 12" SUMP.
I2–4	CB (RED)	CI	102+73.88	27.00' RT	137.26	1	SEE DETAIL 1, SHEET SD12
ES2–2	CONNECT	MH	103+83.45	39.90' LT	138.65	N/A	EXISTING MH – CONNECT PIPE P2–13
S2–7	MH II	MH	103+92.21	CL	138.63	N/A	



RECORD DRAWING

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   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC SCALE 60 30 0 30 60

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
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CONSULTANT

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Joseph C. Hegna
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

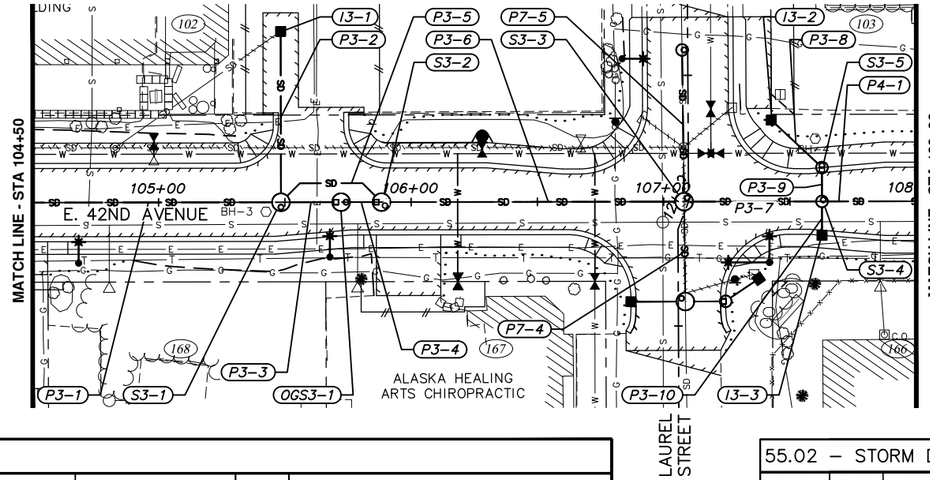
18–06 | 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET | SCHED B

STORM DRAIN PLAN & PROFILE

42ND AVENUE
STA 99+50 TO STA 104+50

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD2 of SD16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain–Plan & Profile_Phase 1.dwg



NOTES:

1. *CONNECTING STORM DRAIN STRUCTURES AND PIPES NOT SHOWN OR LABELED IN PROFILE FOR CLARITY.*
2. *REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.*
4. *REFER TO SHEET SD11 FOR OGS AND BYPASS STRUCTURE DETAILS.*
5. *CPEP FITTINGS I.A.W. MASS SECTION 55.02 SHALL BE USED FOR BYPASS PIPING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. LOCATION OF FITTINGS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE FITTINGS WITH ENGINEER'S APPROVAL TO MINIMIZE CONFLICTS WITH OTHER UTILITIES AND OBSTRUCTIONS. CONCRETE THRUST BLOCKS I.A.W. MASS STANDARD DETAIL 60–06 SHALL BE INSTALLED AT ALL FITTINGS. PAYMENT FOR THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 55.02, FURNISH, INSTALL, AND TELEVISE PIPE.*
6. *CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.*

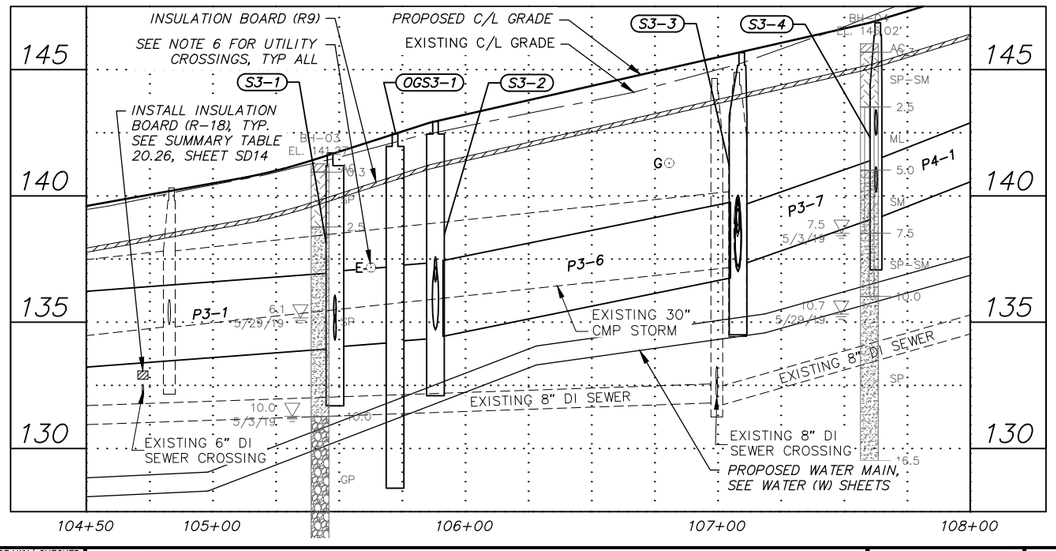
55.05, 55.09 & 55.22 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S3–1	MH II	MH	105+48.45	CL	142.43	N/A	
I3–1	CB	FI	105+48.44	67.68' LT	141.45	N/A	TOP INTAKE COVER
OGS3–1	OGS	MH	105+72.25	CL	142.03	N/A	SEE DETAIL 3, SHEET SD11
S3–2	BYPASS, MH II	MH	105+88.25	CL	142.51	N/A	SEE DETAIL 2, SHEET SD11
S3–3	MH II	MH	107+08.08	CL	145.25	N/A	
S3–4	MH I	MH	107+62.68	CL	146.89	N/A	
S3–5	CB MH I	MH	107+62.68	13.42' LT	147.10	1	
I3–2	CB	FI	107+42.66	32.23' LT	144.91	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12
I3–3	CB	CI	107+62.68	13.42' RT	147.10	1	

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P3–1	30	CPEP, S	156.24	S3–1	S2–7	134.19	133.06	0.75%
P3–2	12	CPEP, S	67.68	I3–1	S3–1	135.70	135.07	1.01%
P3–3	30	CPEP, S	23.80	OGS3–1	S3–1	134.43	134.29	0.79%
P3–4	30	CPEP, S	16.00	S3–2	OGS3–1	134.59	134.51	0.80%
P3–5**	12	CPEP, S	46.02	S3–2	S3–1	136.59	134.29	5.75%
P3–6	30	CPEP, S	119.83	S3–3	S3–2	137.00	134.69	2.03%
P3–7	24	CPEP, S	54.60	S3–4	S3–3	139.24	137.50	3.51%
P3–8	10	CPEP, S	27.47	I3–2	S3–5	140.91	140.44	2.02%
P3–9	12	CPEP, S	13.42	S3–5	S3–4	140.34	140.15	2.02%
P3–10	12	CPEP, S	13.42	I3–3	S3–4	142.60	142.41	2.02%

** OGS3–1 MAINTENANCE BYPASS PIPE, SEE NOTE 5.



RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	
DESIGN	CRW BOOK No. 197, 198 & 201
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	
CONSTRUCTION RECORD	

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D–22	162.47
CB 7B	See MOA Benchmark Book, Page D–18	161.20
BASIS OF THIS DATUM GAAB 1972 ADJUST		
VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECL882–AK
CONSULTANT

STATE OF ALASKA 49 TH
Joseph C. Hegna
CE-11770
REGISTERED PROFESSIONAL ENGINEER
SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

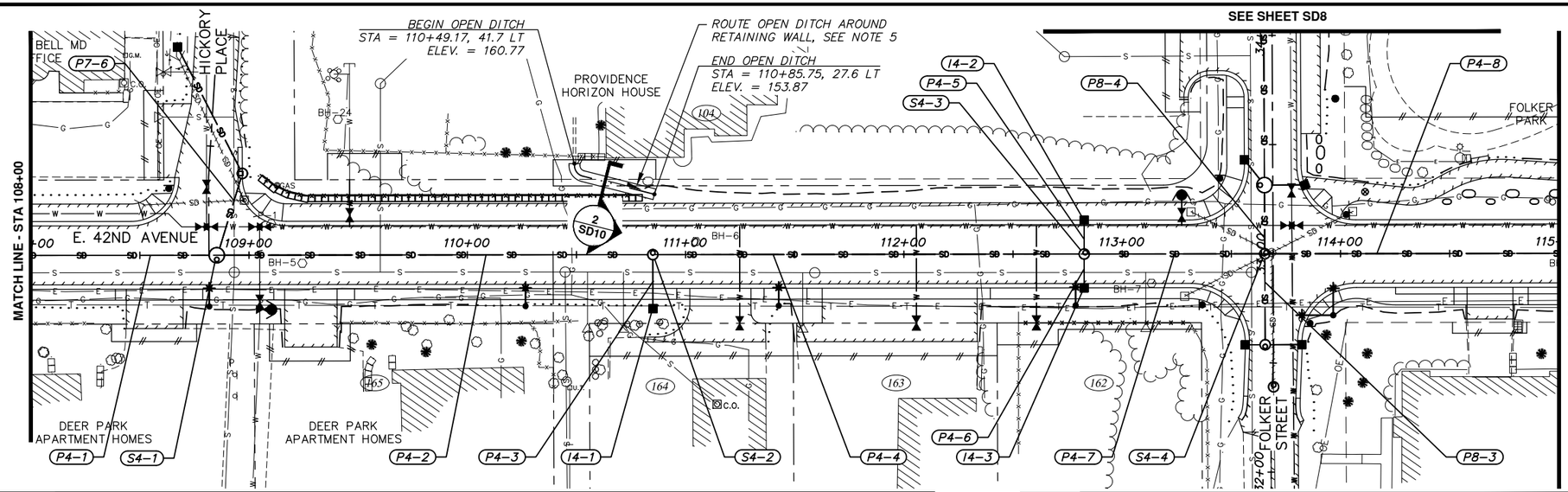
18–06 | 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET | SCHED B

STORM DRAIN PLAN & PROFILE

42ND AVENUE
STA 104+50 TO STA 108+00

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD3 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain–Plan & Profile_Phase 1.dwg



NOTES:

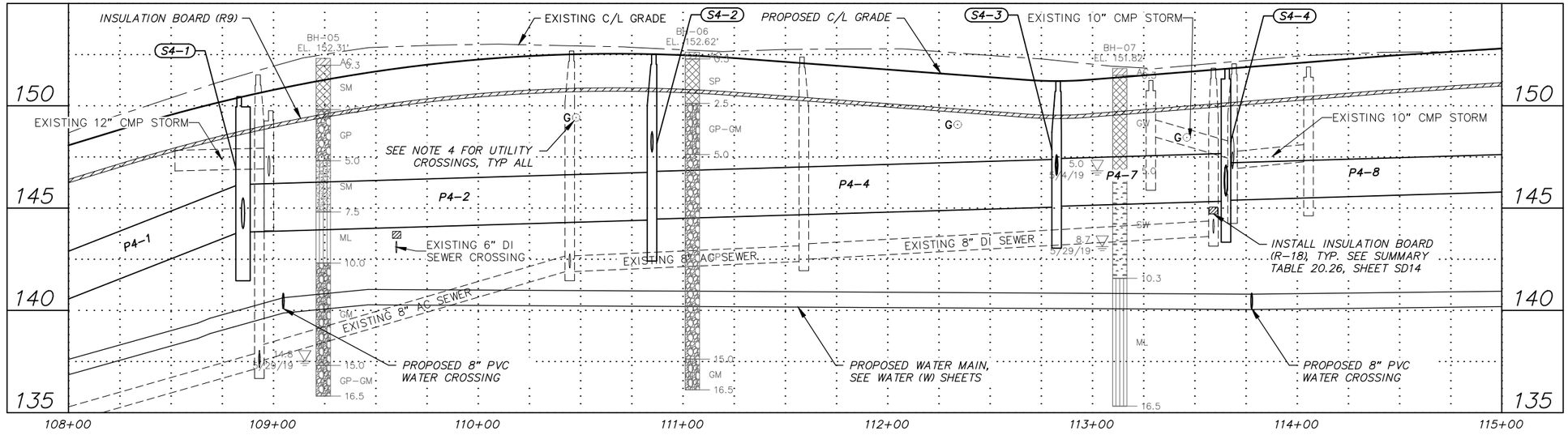
1. *CONNECTING STORM DRAIN STRUCTURES AND PIPES NOT SHOWN OR LABELED IN PROFILE FOR CLARITY.*
2. *REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.*
4. *CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.*
5. *ROUTE OPEN DITCH FROM OUTLET END OF 12–INCH CPEP DRAINAGE PIPE AROUND RETAINING WALL AS DIRECTED BY ENGINEER IN THE FIELD. GRADE DRAINAGE SWALE TO PROVIDE POSITIVE DRAINAGE.*

55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S4–1	MH II	MH	108+85.25	CL	150.37	N/A	
S4–2	MH I	MH	110+85.00	CL	152.47	N/A	
I4–1	CB	FI	110+85.00	24.77' RT	152.16	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12
S4–3	MH I	MH	112+82.60	CL	151.16	N/A	
I4–2	CB	CI	112+82.60	15.50' LT	151.34	1	
I4–3	CB	CI	112+82.60	15.50' RT	151.34	1	
S4–4	MH I	MH	113+65.32	CL	151.76	N/A	

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P4–1	24	CPEP, S	122.57	S4–1	S3–4	143.95	139.34	3.92%
P4–2	24	CPEP, S	199.76	S4–2	S4–1	144.58	144.00	0.30%
P4–3	12	CPEP, S	24.75	I4–1	S4–2	148.16	147.74	2.02%
P4–4	24	CPEP, S	197.60	S4–3	S4–2	145.21	144.63	0.30%
P4–5	12	CPEP, S	15.50	I4–2	S4–3	146.84	146.61	2.00%
P4–6	12	CPEP, S	15.50	I4–3	S4–3	146.84	146.61	2.00%
P4–7	24	CPEP, S	82.72	S4–4	S4–3	145.50	145.26	0.30%
P4–8	18	CPEP, S	245.89	S5–1	S4–4	146.28	145.55	0.30%



RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
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   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
#AECL882–AK

CONSULTANT

STATE OF ALASKA 49 TH
Joseph C. Hegna
CE-11770
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

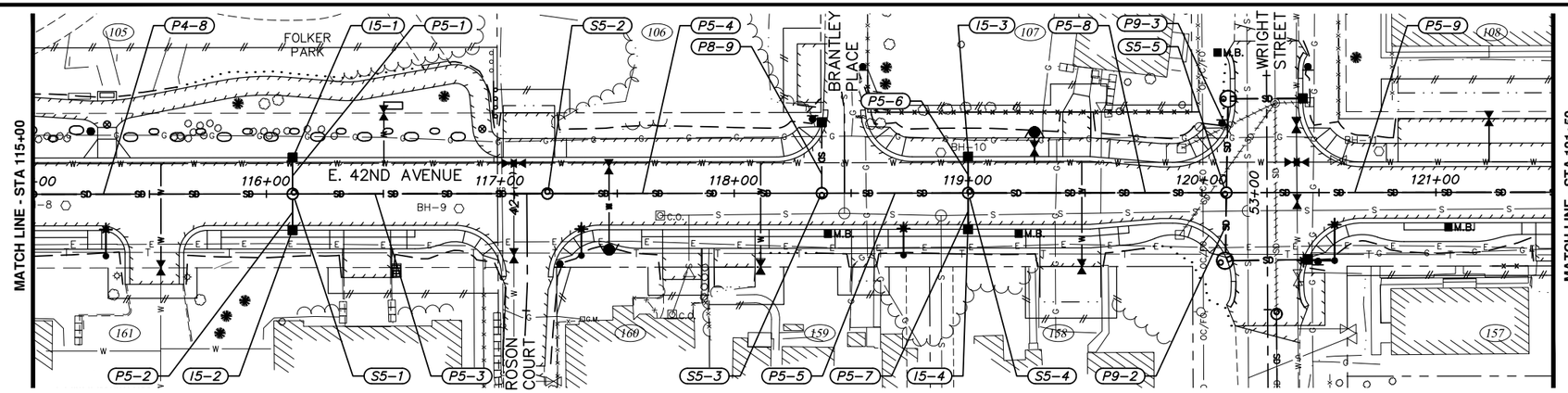
18–06 42ND AVENUE UPGRADE – PHASE 1 SCHED B
LAKE OTIS PARKWAY TO PIPER STREET

STORM DRAIN PLAN & PROFILE

42ND AVENUE
STA 108+00 TO STA 115+00

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD4 of SD16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain–Plan & Profile_Phase 1.dwg



NOTES:

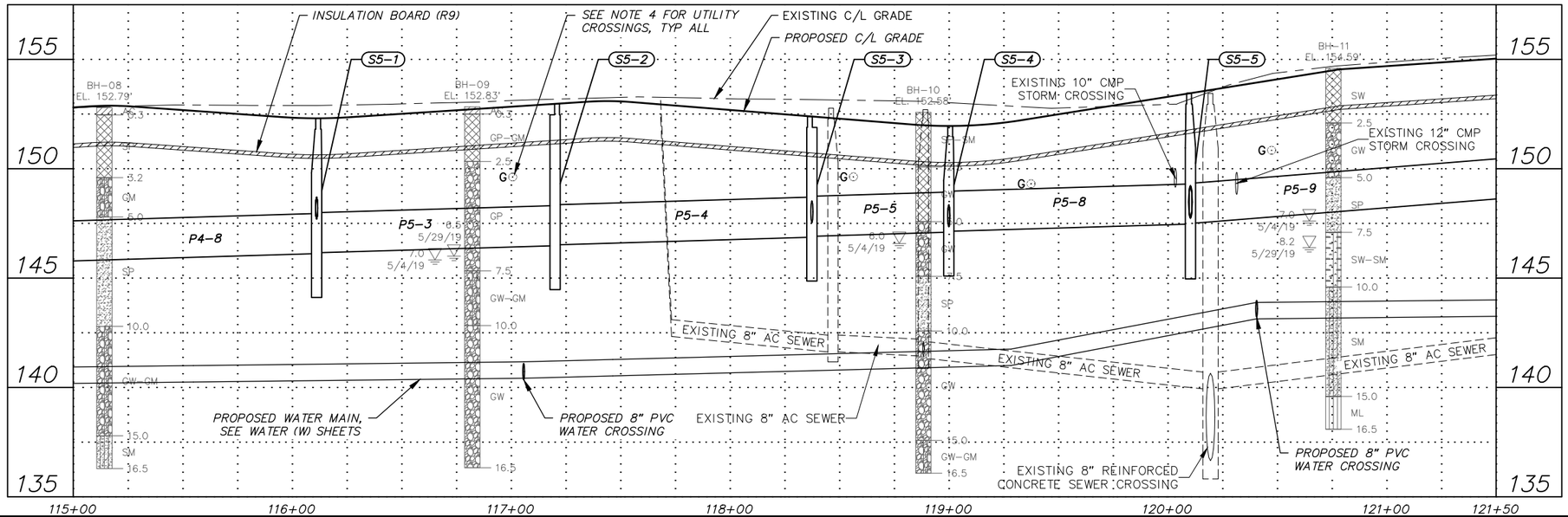
1. CONNECTING STORM DRAIN STRUCTURES AND PIPES NOT SHOWN OR LABELED IN PROFILE FOR CLARITY.
2. REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
3. REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.
4. CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.

55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S5–1	MH I	MH	116+11.21	CL	152.25	N/A	
I5–1	CB	CI	116+11.21	15.50' LT	152.43	1	
I5–2	CB	CI	116+11.21	15.50' RT	152.43	1	
S5–2	MH I	MH	117+20.13	CL	152.91	N/A	
S5–3	MH I	MH	118+37.45	CL	152.33	N/A	
S5–4	MH I	MH	119+00.00	CL	151.90	N/A	
I5–3	CB	CI	119+00.00	15.50' LT	152.08	1	
I5–4	CB	CI	119+00.00	15.50' RT	152.08	1	
S5–5	MH I	MH	120+10.39	CL	153.39	N/A	

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P5–1	12	CPEP, S	15.50	I5–1	S5–1	147.93	147.70	2.00%
P5–2	12	CPEP, S	15.50	I5–2	S5–1	147.93	147.70	2.00%
P5–3	18	CPEP, S	108.92	S5–2	S5–1	146.64	146.33	0.30%
P5–4	18	CPEP, S	117.32	S5–3	S5–2	147.03	146.69	0.30%
P5–5	18	CPEP, S	62.55	S5–4	S5–3	147.26	147.08	0.31%
P5–6	12	CPEP, S	15.50	I5–3	S5–4	147.58	147.35	2.00%
P5–7	12	CPEP, S	15.50	I5–4	S5–4	147.58	147.35	2.00%
P5–8	18	CPEP, S	110.39	S5–5	S5–4	147.63	147.31	0.30%
P5–9	18	CPEP, S	188.49	S6–1	S5–5	149.16	147.68	0.80%



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   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
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CONSULTANT

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Joseph C. Hegna
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

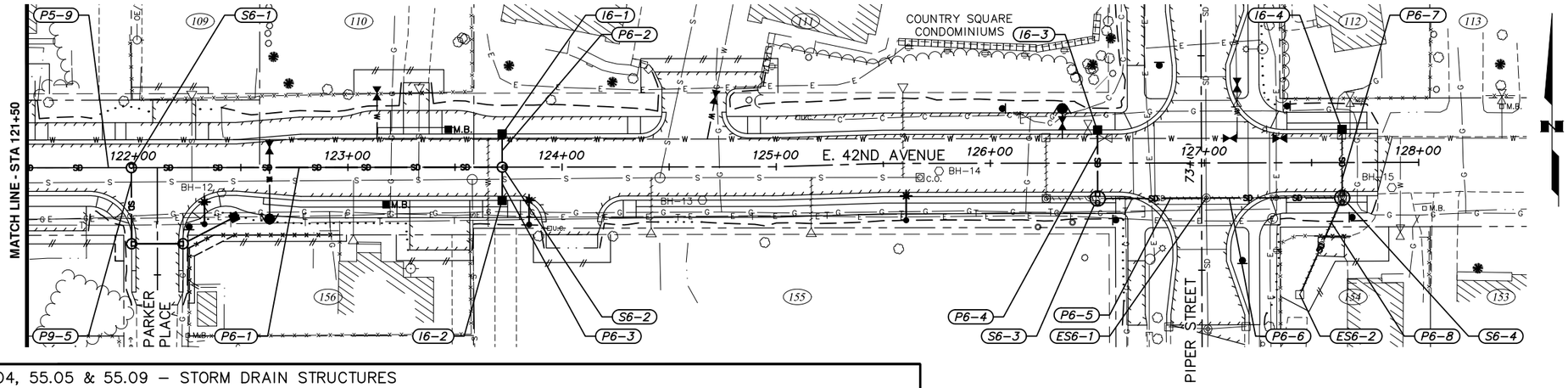
18–06 | 42ND AVENUE UPGRADE – PHASE 1 | LAKE OTIS PARKWAY TO PIPER STREET | SCHED B

STORM DRAIN PLAN & PROFILE

42ND AVENUE
STA 115+00 TO STA 121+50

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD5 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain–Plan & Profile_Phase 1.dwg



NOTES:

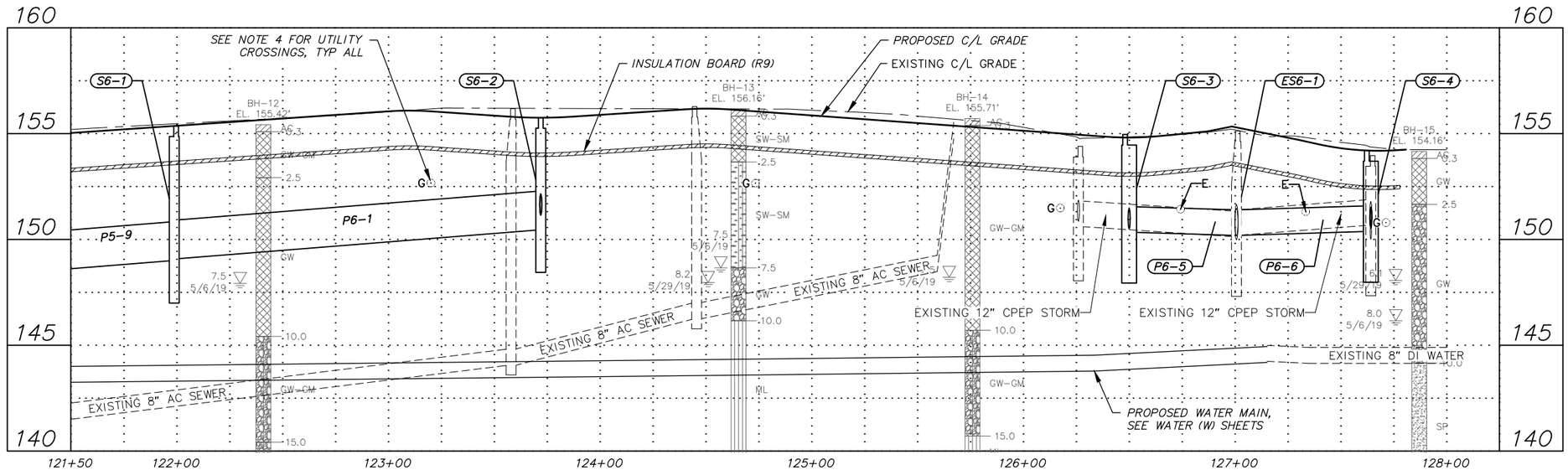
1. CONNECTING STORM DRAIN STRUCTURES AND PIPES NOT SHOWN OR LABELED IN PROFILE FOR CLARITY.
2. REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
3. REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.
4. CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.

55.04, 55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S6–1	MH I	MH	121+98.88	CL	155.31	N/A	
S6–2	MH I	MH	123+72.06	CL	155.71	N/A	
I6–1	CB	CI	123+72.06	15.50' LT	155.88	1	
I6–2	CB	CI	123+72.06	15.50' RT	155.88	1	
S6–3	CB MH II	CI	126+50.06	16.50' RT	154.95	1	
I6–3	CB	CI	126+50.06	15.50' LT	154.95	1	
ES6–1	CONNECT	MH	127+00.77	16.37' RT	155.38	N/A	EXISTING MH – CONNECT PIPES P6–5 & P6–6
S6–4	CB MH II	CI	127+64.25	16.45' RT	154.11	1	
I6–4	CB	CI	127+65.25	15.50' LT	154.10	1	
ES6–2	CONNECT	FI	127+44.33	61.44' RT	±154.9	N/A	EXISTING CB MH WITH BEEHIVE INLET – CONNECT PIPE P6–8

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P6–1	18	CPEP, S	173.18	S6–2	S6–1	150.61	149.26	0.80%
P6–2	12	CPEP, S	15.50	I6–1	S6–2	151.38	151.15	2.00%
P6–3	12	CPEP, S	15.50	I6–2	S6–2	151.38	151.15	2.00%
P6–4	12	CPEP, S	32.00	I6–3	S6–3	150.57	150.49	0.30%
P6–5	12	CPEP, S	50.73	S6–3	ES6–1	150.44	150.30	0.31%
P6–6	12	CPEP, S	63.48	S6–4	ES6–1	150.48	150.30	0.31%
P6–7	12	CPEP, S	31.95	I6–4	S6–4	150.61	150.53	0.30%
P6–8	10	CPEP, S	49.21	ES6–2	S6–4	151.8±	150.65	2.60%



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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
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DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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#AECL882–AK

CONSULTANT

STATE OF ALASKA 49 TH — Joseph C. Hegna CE-11770 — REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

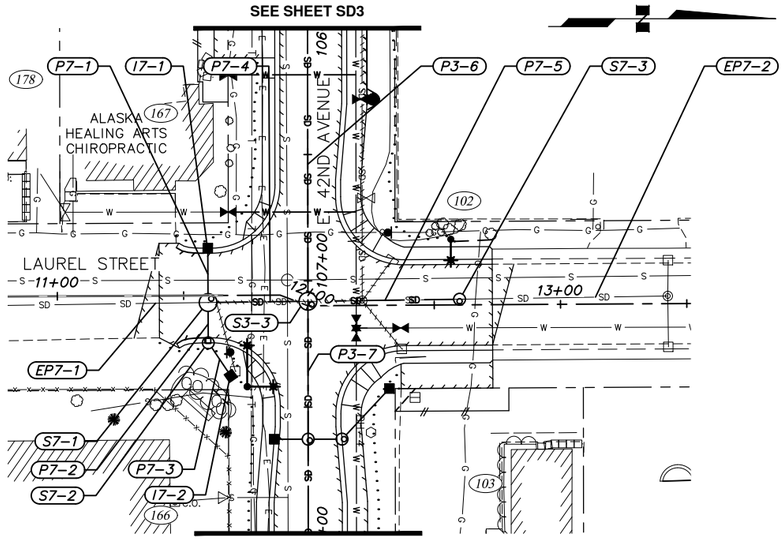
18–06 — 42ND AVENUE UPGRADE – PHASE 1 — LAKE OTIS PARKWAY TO PIPER STREET — SCHED B

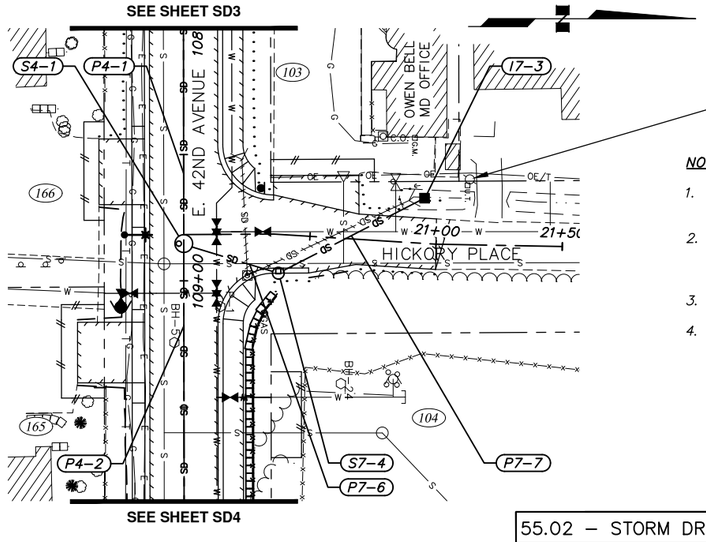
STORM DRAIN PLAN & PROFILE

42ND AVENUE
STA 121+50 TO EOP

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD6 of SD16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain-Plan & Profile_Phase 1.dwg





SHORE EXISTING UTILITY POLE IN PLACE IF GUY WIRE SOUTH OF UTILITY POLE REQUIRES TEMPORARY REMOVAL FOR CATCH BASIN. COORDINATE WORK WITH CEA.

NOTES:

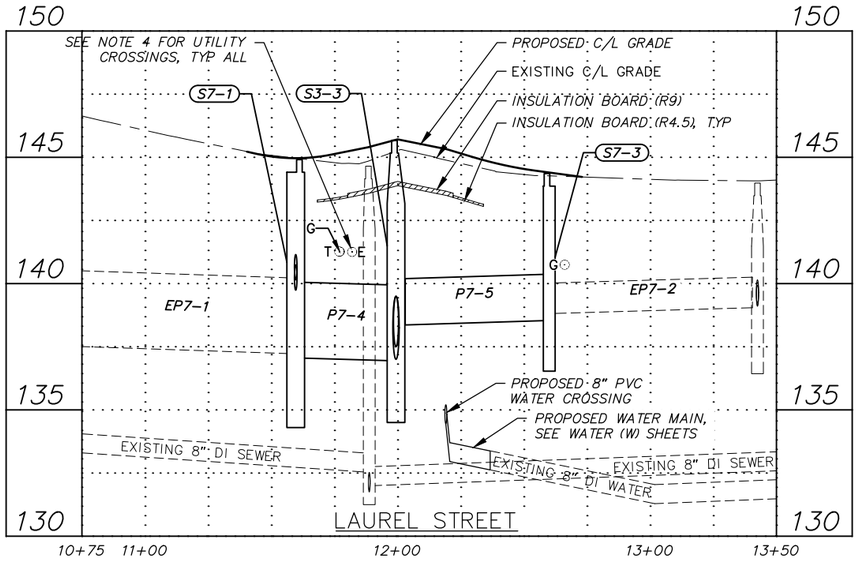
1. *CONNECTING STORM DRAIN STRUCTURES AND PIPES NOT SHOWN OR LABELED IN PROFILE FOR CLARITY.*
2. *REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.*
4. *CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.*

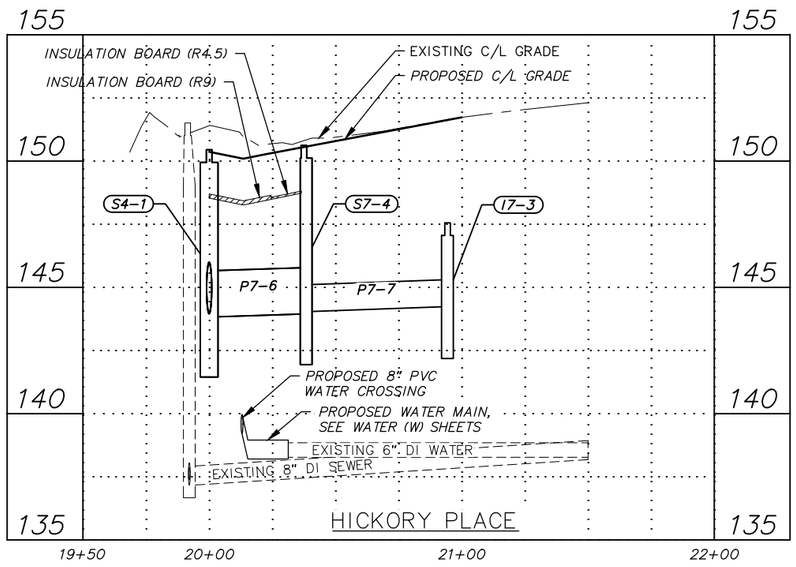
55.04, 55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S7–1	MH II/CONNECT	MH	11+59.66	2.78' RT	14.90	N/A	CONNECT EXISTING PIPE EP7–1
I7–1	CB	CI	11+59.66	18.75' LT	144.98	1	
S7–2	CB MH I	CI	11+59.66	18.75' RT	144.81	1	
I7–2	CB	FI	11+68.51	31.86' RT	144.30	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12
S7–3	MH I	MH	12+60.04	2.23' LT	144.21	N/A	CONNECT EXISTING PIPE EP7–2
S7–4	CB MH I	CI	20+38.40	15.35' RT	150.62	1	
I7–3	CB	FI	20+94.33	17.91' LT	147.56	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
EP7–1	30	CMP	–	–	S7–1	–	137.5±	–
P7–1	12	CPEP, S	21.53	I7–1	S7–1	140.48	140.15	2.00%
P7–2	12	CPEP, S	15.97	S7–2	S7–1	139.96	139.74	2.01%
P7–3	12	CPEP, S	15.82	I7–2	S7–2	140.30	140.06	2.03%
P7–4	30	CPEP, S	39.55	S7–1	S3–3	137.30	137.20	0.30%
P7–5	18	CPEP, S	60.04	S7–3	S3–3	138.70	138.53	0.31%
EP7–2	12	CMP	–	–	S7–3	–	138.9±	–
P7–6	18	CPEP, S	39.22	S7–4	S4–1	144.11	144.00	0.32%
P7–7	10	CPEP, S	65.07	I7–3	S7–4	144.35	144.16	0.31%





RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR–PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
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   BY: _____

CONSTRUCTION RECORD

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
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ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
@ECL882–AK

CONSULTANT

STATE OF ALASKA 49 TH
Joseph C. Hegna
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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

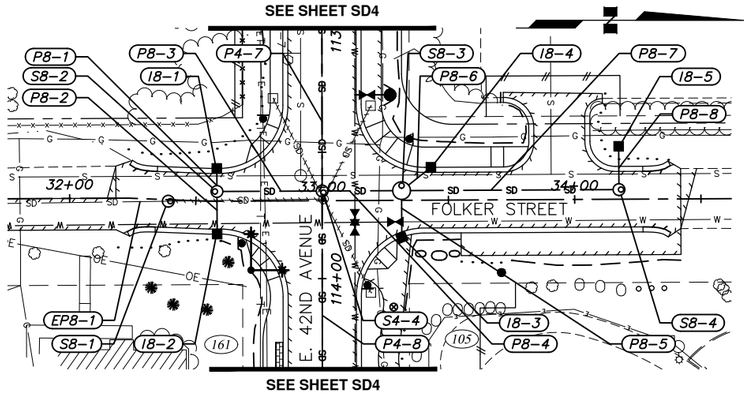
18–06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED B

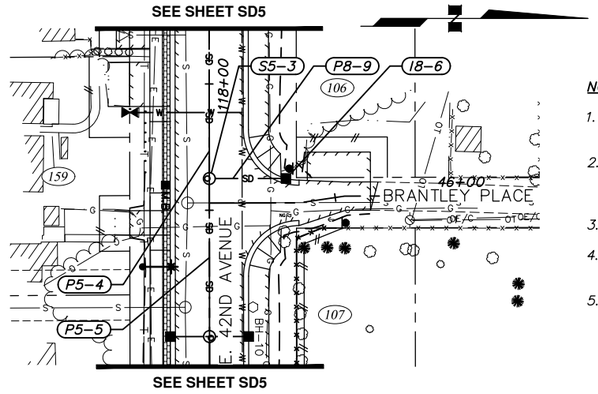
STORM DRAIN PLAN & PROFILE

LAUREL STREET & HICKORY PLACE

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD7 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain Sidestreets–Plan & Profile_Phase 1.dwg





NOTES:

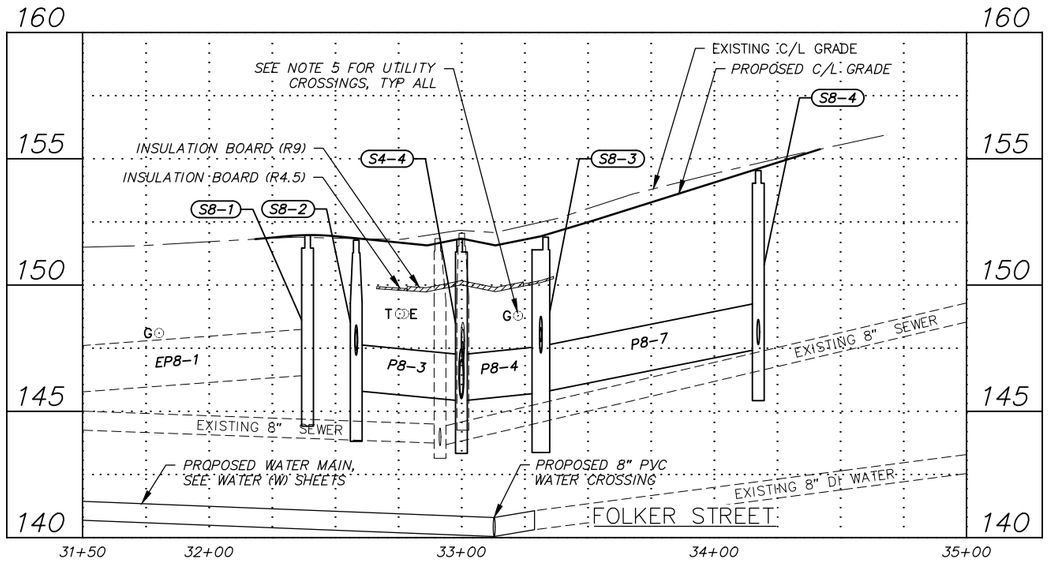
1. *CONNECTING STORM DRAIN STRUCTURES AND PIPES NOT SHOWN OR LABELED IN PROFILE FOR CLARITY.*
2. *REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD10–SD12 FOR STORM DRAIN DETAILS.*
4. *SHAPE CURB PROFILE ON BOTH SIDES OF CURB INLET TO MATCH CASTING.*
5. *CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED.*

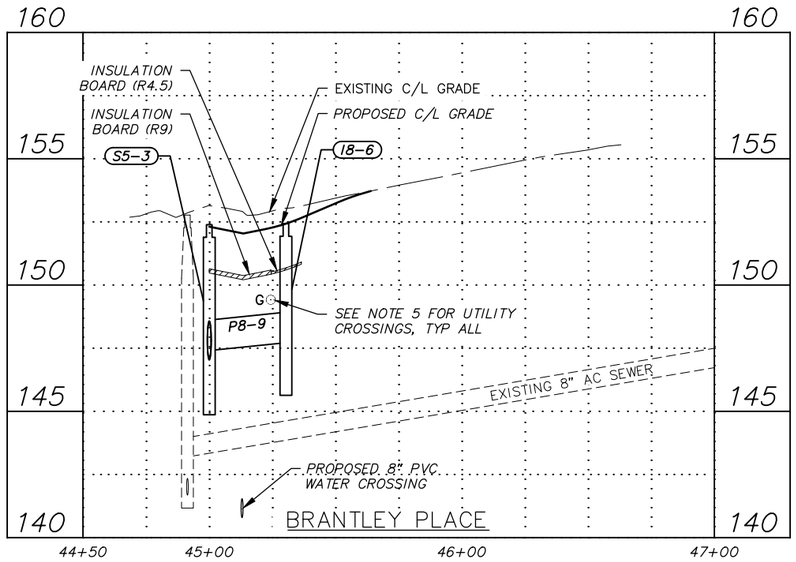
55.04, 55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S8–1	MH I/CONNECT	MH	32+39.08	0.61' RT	151.93	N/A	CONNECT EXISTING PIPE EP8–1
S8–2	MH I	MH	32+58.36	3.86' LT	151.74	N/A	
I8–1	CB	CI	32+58.36	13.00' LT	152.03	1	
I8–2	CB	CI	32+58.36	13.00' RT	151.98	1	
S8–3	MH II	MH	33+31.48	3.84' LT	151.83	N/A	
I8–3	CB	CI	33+31.48	14.63' RT	152.08	1	
I8–4	CB	CI	33+43.14	13.00' LT	152.46	1	
S8–4	MH I	MH	34+17.55	3.81' LT	154.52	N/A	
I8–5	CB	FI	34+17.52	20.94' LT	151.75	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12
I8–6	CB	CI	45+30.36	9.68' LT	152.43	1A	OLYMPIC FOUNDRY CURB INLET FRAME & GRATE (PART NO. SM18DI) OR APPROVED EQUAL, SEE NOTE 4.

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
EP8–1	18	CMP	–	S8–1	–	146.6±	–	–
P8–1	12	CPEP, S	9.15	I8–1	S8–2	147.53	147.42	2.14%
P8–2	12	CPEP, S	16.85	I8–2	S8–2	147.48	147.22	2.02%
P8–3	18	CPEP, S	41.65	S8–2	S4–4	145.98	145.60	1.01%
P8–4	18	CPEP, S	31.46	S8–3	S4–4	145.87	145.60	1.02%
P8–5	12	CPEP, S	18.47	I8–3	S8–3	147.58	147.31	2.00%
P8–6	12	CPEP, S	14.83	I8–4	S8–3	147.96	147.76	2.03%
P8–7	18	CPEP, S	86.08	S8–4	S8–3	147.59	145.97	2.00%
P8–8	12	CPEP, S	17.13	I8–5	S8–4	147.75	147.64	0.84%
P8–9	12	CPEP, S	30.35	I8–6	S5–3	147.80	147.53	1.02%





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PLAN CHECK

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GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
	CB 7B	See MOA Benchmark Book, Page D–18	161.20
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

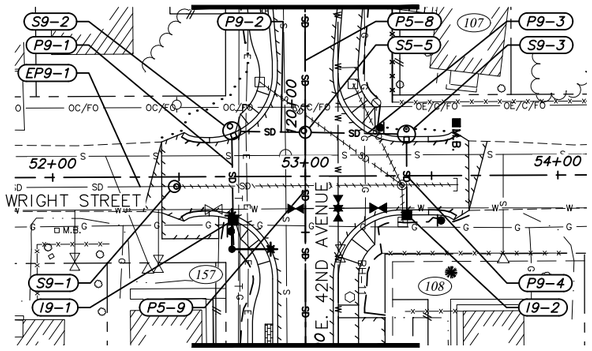
18–06 42ND AVENUE UPGRADE – PHASE 1 SCHED B
LAKE OTIS PARKWAY TO PIPER STREET

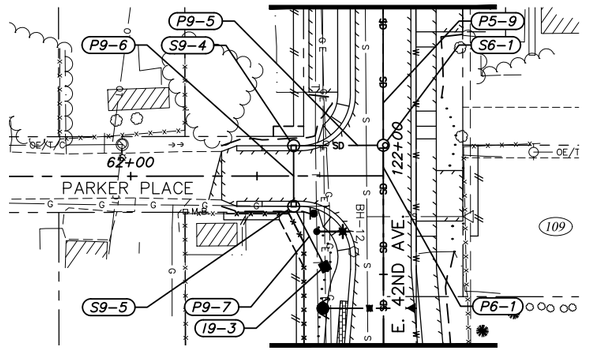
STORM DRAIN PLAN & PROFILE

FOLKER STREET & BRANTLEY PLACE

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD8 of SD16

File: J:\JobsDate\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain Sidestreets–Plan & Profile_Phase 1.dwg





NOTES:

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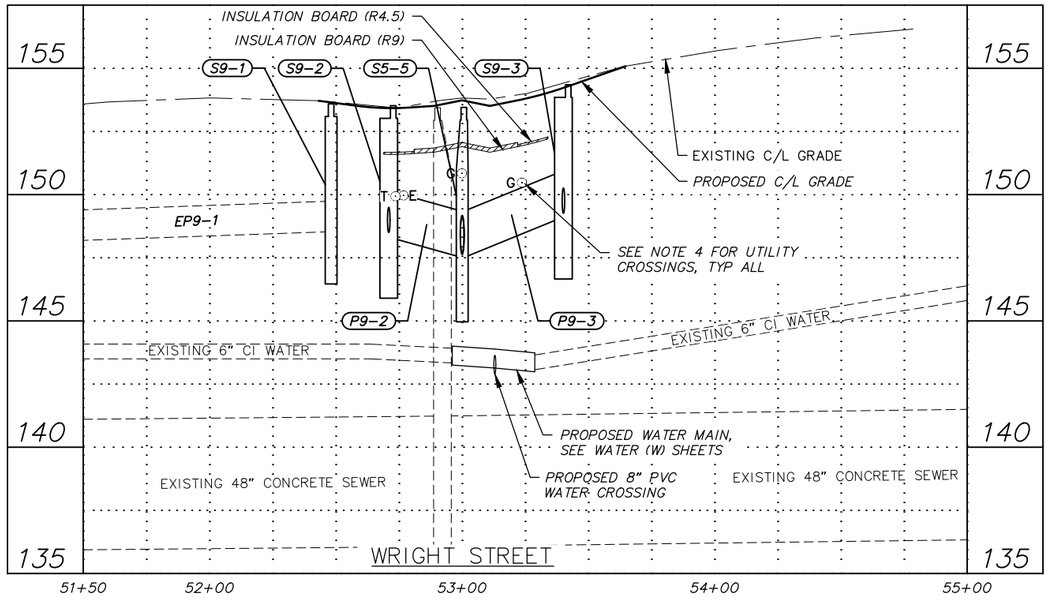
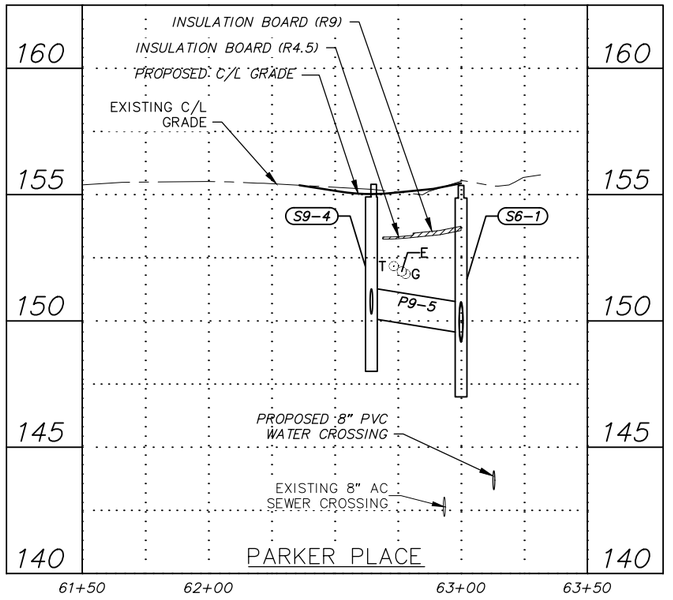
STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S9–1	MH I/CONNECT	MH	52+48.15	3.80' RT	153.54	N/A	CONNECT EXISTING PIPE EP9–1
S9–2	CB MH II	CI	52+70.98	18.13' LT	153.34	1	
I9–1	CB	CI	52+71.30	17.35' RT	153.61	1	
S9–3	CB MH II	CI	53+40.14	16.45' LT	154.34	1	
I9–2	CB	CI	53+40.14	15.50' RT	154.30	1	
S9–4	CB MH I	CI	62+64.50	12.00' LT	155.41	1	
S9–5	CB MH I	CI	69+64.50	12.00' RT	155.22	1	
I9–3	CB	FI	62+76.84	35.91' RT	155.23	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
EP9–1	12	CMP	–	S9–1	–	148.6±	–	–
P9–1	12	CPEP, S	35.49	I9–1	S9–2	149.11	148.50	2.00%
P9–2	18	CPEP, S	29.09	S9–2	S5–5	148.40	147.73	2.78%
P9–3	18	CPEP, S	40.09	S9–3	S5–5	149.16	147.73	4.08%
P9–4	12	CPEP, S	31.95	I9–2	S9–3	149.80	149.26	1.99%
P9–5	12	CPEP, S	35.50	S9–4	S6–1	150.17	149.66	1.62%
P9–6	12	CPEP, S	24.00	S9–5	S9–4	150.67	150.27	2.00%
P9–7	12	CPEP, S	26.91	I9–3	S9–5	151.23	150.77	2.01%





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DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
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STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

CRW ENGINEERING GROUP, LLC
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

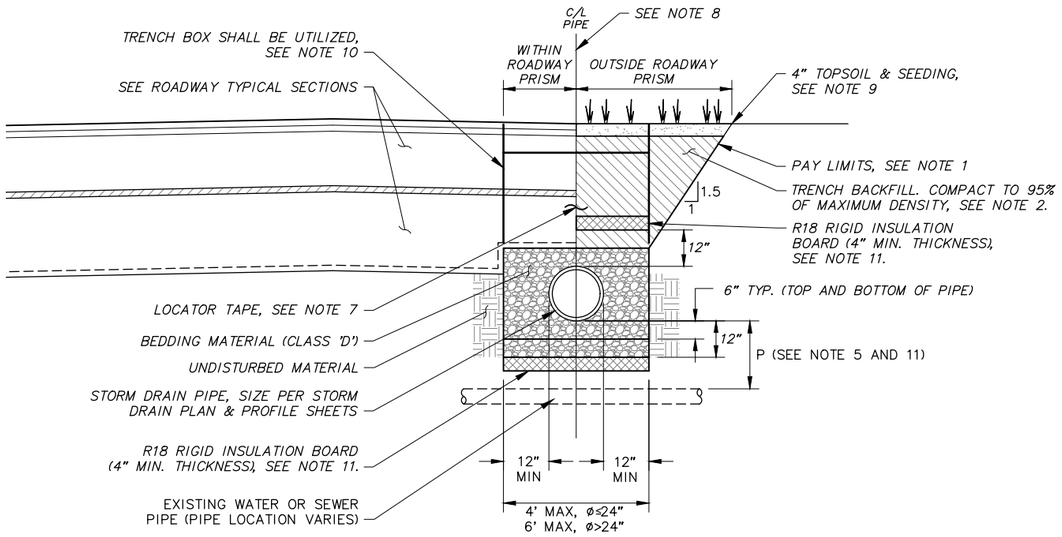
18–06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED B

STORM DRAIN PLAN & PROFILE

WRIGHT STREET & PARKER PLACE

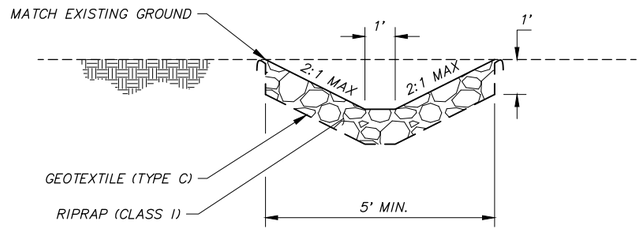
SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD9 of SD16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain Sidestreets–Plan & Profile_Phase 1.dwg



1 TYPICAL STORM DRAIN TRENCH SECTION

SCALE: NTS



2 TYPICAL OPEN DITCH SECTION

SCALE: NTS

OPEN DITCH NOTES:

1. PAYMENT FOR GEOTEXTILE (CLASS C) AND RIPRAP (CLASS I) SHALL BE INCIDENTAL TO PAY ITEM 55.19, CONSTRUCT OPEN DITCH.

STORM DRAIN & SUBDRAIN TRENCH SECTION NOTES:

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY.
2. TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE IV CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE IV CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL.
3. REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
4. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN 12 INCHES ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE.
5. WATER LINES CROSSING STORM DRAIN LINES REQUIRE A MINIMUM VERTICAL SEPARATION OF THREE (3) FEET. INSTALL R18 INSULATION BOARD WHEN 'P' IS LESS THAN 3', AS MEASURED FROM OUTSIDE OF PIPES & WITHIN BEDDING LIMITS, OR AS DIRECTED BY ENGINEER IN FIELD. 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 WHEN DIRECTED BY FIELD ENGINEER.
6. WHERE WATER AND STORM DRAIN MAINS CROSS, STORM DRAIN MAIN JOINTS SHALL BE INSTALLED AT LEAST 9 FEET FROM EXISTING WATER MAIN JOINTS.
7. INSTALL DETECTABLE LOCATOR TAPE THREE (3) FEET BELOW FINISH GRADE OR TWO (2) FEET DEEP IN THE STREET STRUCTURAL SECTION PER MASS SECTION 20.13.
8. LOCATION OF STORM DRAIN VARIES WITHIN ROADWAY AND OUTSIDE OF ROADWAY PRISM. INSTALL STORM DRAIN AS SHOWN ON STORM DRAIN PLAN & PROFILE SHEETS.
9. PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS.
10. TRENCH BOX SHALL BE UTILIZED TO MINIMIZE TRENCH WIDTH AND REDUCE IMPACTS TO ADJACENT PROPERTIES AND RE-VEGETATION. CONTRACTOR SHALL AVOID IMPACTS TO TREE PROTECTION ZONES.
11. INSTALL R18 INSULATION BOARD:
    - ABOVE SD PIPE WHEN COVER IS LESS THAN 4' IN AREAS OUTSIDE OF INSULATED ROADWAY SECTION, INSULATION PLACEMENT SHALL CONFORM TO MASS DETAIL 20-9.
    - BELOW SD PIPE WHEN 'P' IS LESS THAN 3', AS MEASURED FROM OUTSIDE OF PIPES & WITHIN BEDDING LIMITS, OR AS DIRECTED BY ENGINEER IN THE FIELD.

GENERAL STORM DRAIN STRUCTURE & PIPE NOTES:

1. HORIZONTAL AND VERTICAL CONTROL POINTS FOR STORM DRAIN STRUCTURES (REFERENCE POINTS CALLED OUT IN PLAN & PROFILE SHEETS) ARE:

STRUCTURE	HORZ CONTROL	REFERENCE ELEV.
TYPE I MH	CENTER OF MH	FG/TOP OF LID.
TYPE II MH	CENTER OF MH	FG/TOP OF LID.
TYPE II CBMH	CENTER OF MH	TBC @ MID. PT. OF CURB INLET HOOD
CATCH BASIN	CENTER OF CB	TBC @ MID. PT. OF CURB INLET HOOD
CB W/ FIELD INLET	CENTER OF FIELD INLET	FG/TOP OF FRAME
TYPE I CBMH W/FIELD INLET	CENTER OF MH	FG/TOP OF FRAME

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.
3. UNLESS OTHERWISE NOTED ALL STORM DRAIN MAIN PIPE SHALL BE CPEP, TYPE S.
4. THE FOLLOWING ABBREVIATIONS USED ON THE STORM DRAIN STRUCTURE TABLES ON THE PLAN & PROFILES SHEETS ARE DESCRIBED BELOW:
    - CB – CATCH BASIN
    - CB (RED) – REDUCED HEIGHT CATCH BASIN
    - CB MH I – CATCH BASIN MANHOLE, TYPE I
    - CB MH II – CATCH BASIN MANHOLE, TYPE II
    - CB MH II (RED) – REDUCED HEIGHT CATCH BASIN MANHOLE, TYPE II
    - CI – CURB INLET
    - CONNECT – CONNECT TO STORM DRAIN MANHOLE
    - FI – FIELD INLET
    - MH – MANHOLE FRAME AND LID
    - MH I – STORM DRAIN MANHOLE, TYPE I
    - MH I (RED) – REDUCED HEIGHT STORM DRAIN MANHOLE, TYPE I
    - MH II – STORM DRAIN MANHOLE, TYPE II
    - MH III – STORM DRAIN MANHOLE, TYPE III
    - OGS – OIL AND GRIT SEPARATOR

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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   CONTRACTOR: _____
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   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 197, 198 & 201
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 69	See MOA Benchmark Book, Page D-22	162.47
CB 7B	See MOA Benchmark Book, Page D-18	161.20

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
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PHONE: (907) 562-3252
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STATE OF ALASKA 49 TH
Joseph C. Hegna
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SEAL

MUNICIPALITY OF ANCHORAGE

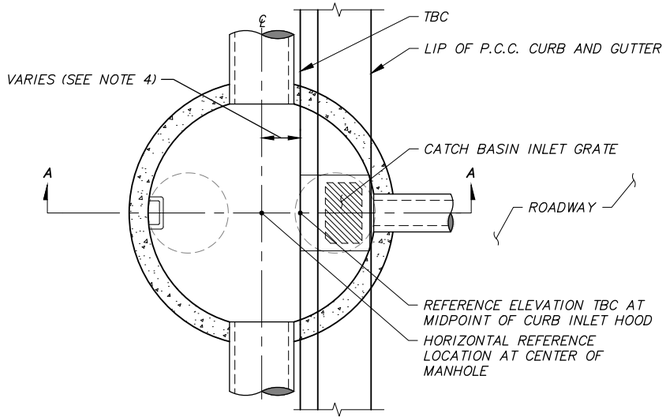
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED B

STORM DRAIN DETAILS

SCALE HOR. NTS VER. NTS | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD10 of SD16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain Details_Phase 1.dwg



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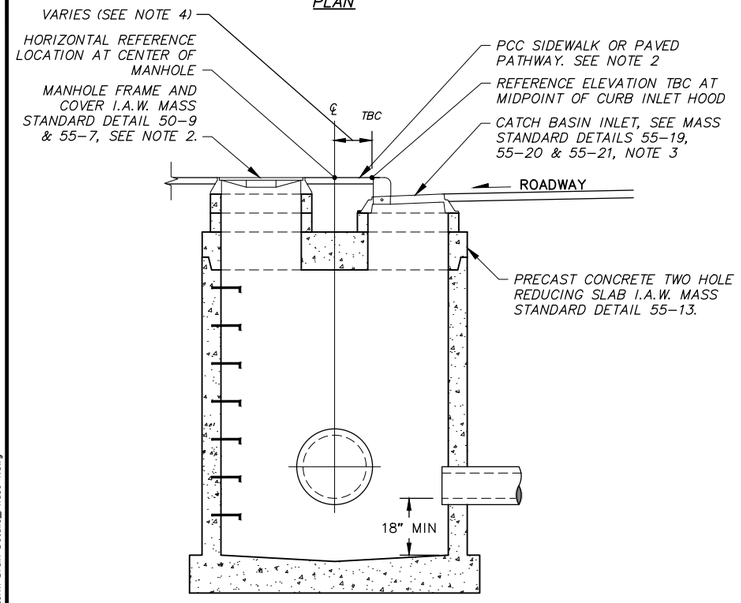


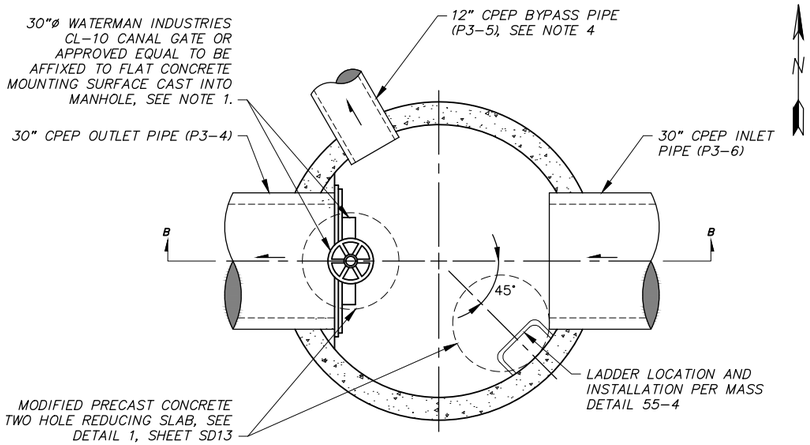
SECTION A–A

TYPE II CATCH BASIN MANHOLE NOTES

1. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS AS CURRENTLY AMENDED AND AS MODIFIED ON THIS DETAIL.
2. SET MANHOLE COVER 1/4–INCH BELOW PCC SIDEWALK OR PAVED PATHWAY FINISH GRADE OR PER MASS STANDARD DETAIL 55–10 FOR ALL OTHER LOCATIONS.
3. MH CENTER MAY BE ON ROADWAY SIDE OF CURB LINE IN SOME LOCATIONS. ALIGN CATCH BASIN INLET WITH CURB LINE.
4. OFFSET FOR STANDARD INSTALLATION IS 0.95'.

1 TYPE II CATCH BASIN MANHOLE DETAIL

SCALE: NTS



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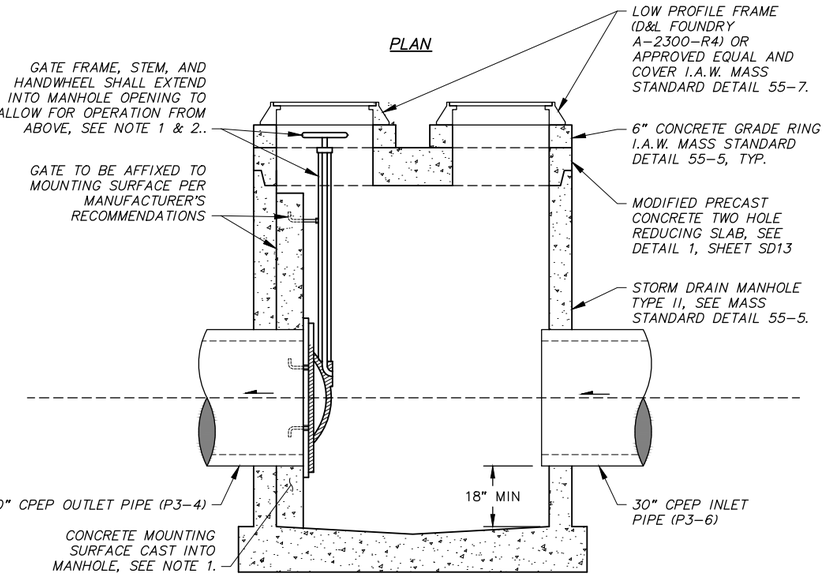


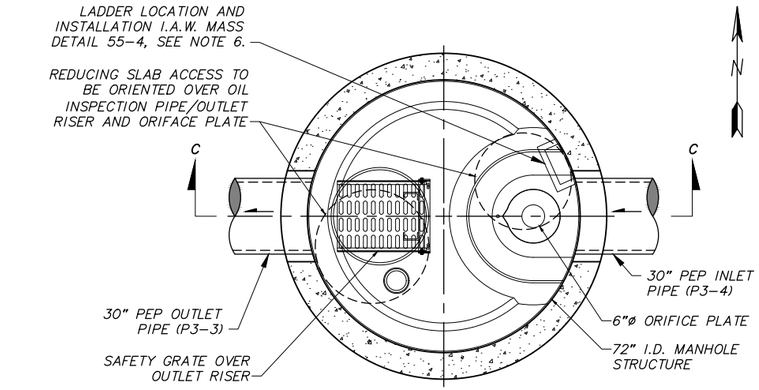
SECTION B–B

BYPASS MANHOLE NOTES

1. CAST CONCRETE MOUNTING SURFACE INTO MANHOLE SUCH THAT BYPASS GATE HANDWHEEL IS CENTERED IN ACCESS OPENING.
2. BYPASS GATE STEM SHALL BE NON–RISING TO POSITION HANDWHEEL AT CONVENIENT STATIC OPERATING ELEVATION FROM MANHOLE OPENING ABOVE.
3. BYPASS MANHOLE (STRUCTURE S3–2) SHALL BE PAID FOR UNDER PAY ITEM 55.05 CONSTRUCT (TYPE II) BYPASS MANHOLE.
4. BYPASS PIPE (P3–5) NOT SHOWN IN SECTION B–B FOR CLARITY.

2 BYPASS MANHOLE (S3-2) DETAIL

SCALE: NTS



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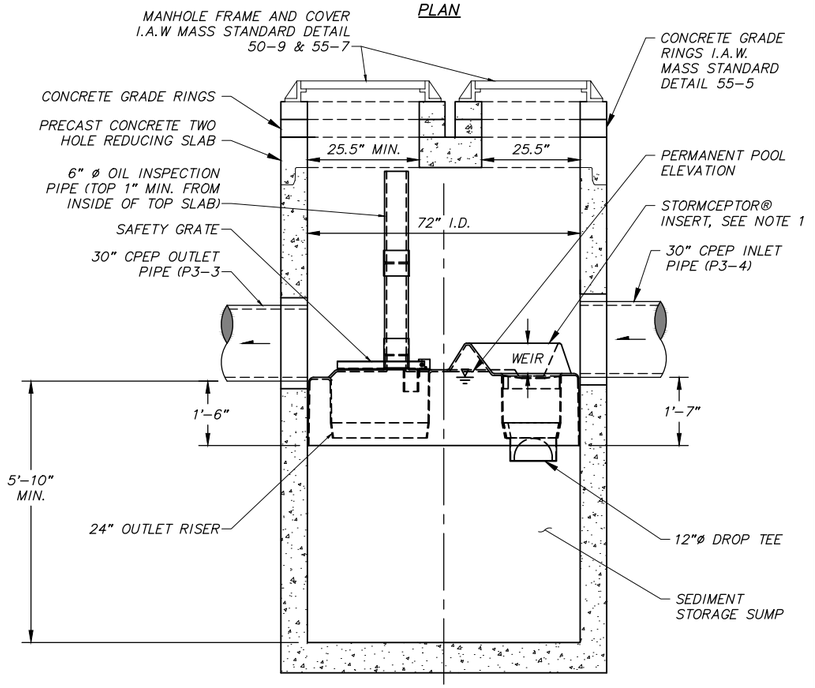

SECTION C–C

OIL & GRIT SEPARATOR NOTES

1. OIL AND GRIT SEPARATOR (STRUCTURE OGS3–1) SHALL BE STORMCEPTOR MODEL STC1200 MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS LLC OR APPROVED EQUAL.
2. THE ACCESS OPENINGS SHOULD BE POSITIONED OVER THE ORIFICE PLATE AND OIL INSPECTION PIPE.
3. LADDER RUNGS NOT SHOWN IN SECTION VIEW FOR CLARITY.

3 OIL AND GRIT SEPARATOR (OGS3-1) DETAIL

SCALE: NTS

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DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY		TS AR
PROFILE		RB JK
STORM SEWER		AA JH
WATER/SANITARY SEWER		AA JK
GAS		TS AR
TELEPHONE		TS AR
ELECTRIC		JH TK
DESIGN		RB JK
QUANTITIES		RB JK
PRELIMINARY/FINAL		RB JK
MUNICIPAL/STATE		RB JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PHONE: (907) 562–3252
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CONSULTANT

STATE OF ALASKA 49 TH — Joseph C. Hegna CE-11770 — REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

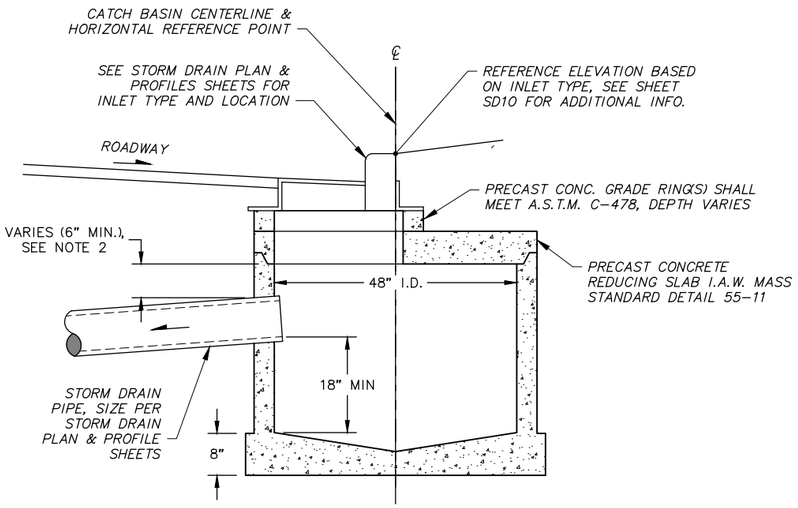
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18–06 — 42ND AVENUE UPGRADE – PHASE 1 — LAKE OTIS PARKWAY TO PIPER STREET — SCHED B

STORM DRAIN DETAILS

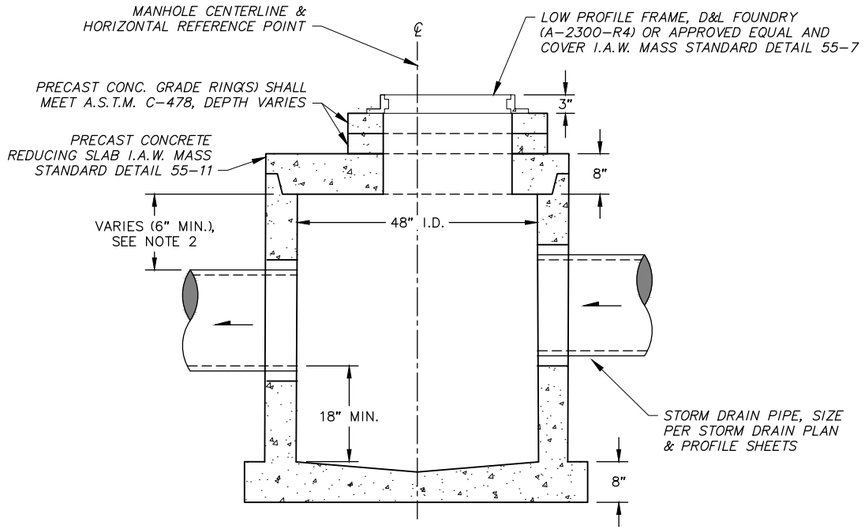
SCALE HOR. NTS VER. NTS | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD11 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain Details_Phase 1.dwg



1 **REDUCED HEIGHT CATCH BASIN**

SCALE: NTS

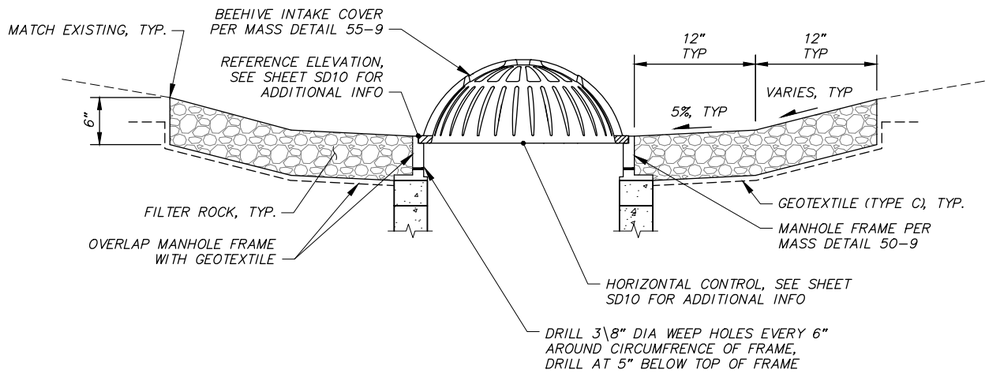


2 **REDUCED HEIGHT (TYPE I) MANHOLE/CATCH BASIN**

SCALE: NTS

REDUCED HEIGHT STRUCTURE NOTES

1. *ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS) AS CURRENTLY AMENDED AND AS MODIFIED ON THESE DETAILS.*
2. *BASE SECTION HEIGHT BETWEEN TOP OF PIPE AND REDUCING SLAB SHALL BE REDUCED AS NECESSARY TO FACILITATE THE CONSTRUCTION OF THE STORM DRAIN AS SHOWN ON THE PLAN AND PROFILE SHEETS.*
3. *REDUCED HEIGHT CATCH BASIN SHALL BE PAID FOR UNDER PAY ITEM 55.09, CONSTRUCT CATCH BASIN.*
4. *REDUCED HEIGHT MANHOLE AND CATCH BASIN MANHOLE SHALL BE PAID FOR UNDER PAY ITEM 55.05, CONSTRUCT (TYPE I) MANHOLE & CONSTRUCT (TYPE I) MANHOLE/CATCH BASIN MANHOLE.*

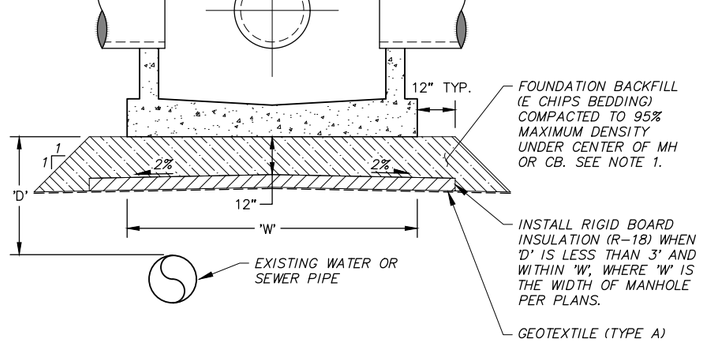


FIELD INLET NOTES

1. *DRAIN ROCK AND GEOTEXTILE SHALL BE INCIDENTAL TO PAY ITEM 55.09 (CONSTRUCT CATCH BASIN).*

3 **FIELD INLET DETAIL**

SCALE: NTS



FOUNDATION BACKFILL & STORM DRAIN STRUCTURE INSULATION NOTES

1. *INSTALL FOUNDATION BACKFILL (E CHIPS BEDDING) AS DIRECTED BY ENGINEER OR WHERE INSULATION IS REQUIRED. PAYMENT FOR GEOTEXTILE SHALL BE INCIDENTAL TO PAY ITEM 20.19 FOUNDATION BACKFILL (E CHIPS BEDDING).*

4 **FOUNDATION BACKFILL & STORM DRAIN STRUCTURE INSULATION DETAIL**

SCALE: NTS

RECORD DRAWING

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PLAN CHECK	DRAWN BY	CHECKED BY
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TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
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ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

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REVISIONS

CRW ENGINEERING GROUP, LLC
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Joseph C. Hegna
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MUNICIPALITY OF ANCHORAGE

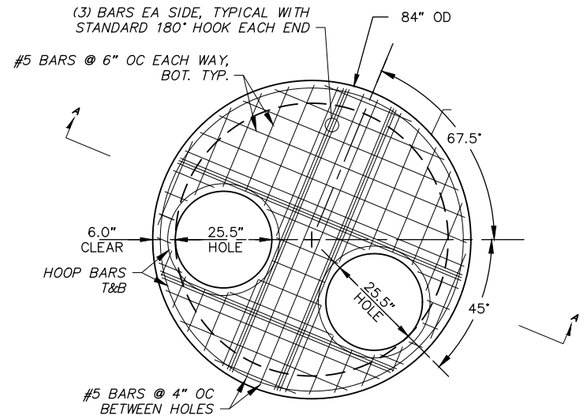
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED B
LAKE OTIS PARKWAY TO PIPER STREET

STORM DRAIN DETAILS

SCALE HOR. NTS VER. NTS | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD12 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain Details_Phase 1.dwg



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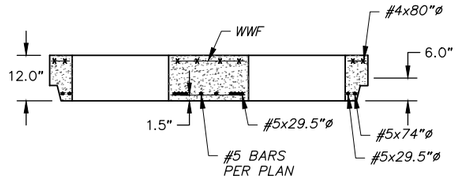

SECTION A–A

REDUCING SLAB NOTES

1. CONCRETE MINIMUM DESIGN STRENGTH OF 4,000 PSI.

1 MODIFIED PRECAST CONCRETE TWO HOLE REDUCING SLAB DETAIL

SCALE: NTS

RECORD DRAWING

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PLAN CHECK

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TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
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TELEPHONE	TS	AR
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DESIGN	RB	JK
QUANTITIES	RB	JK
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PHONE: (907) 562–3252
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

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LAKE OTIS PARKWAY TO PIPER STREET

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20.26 – INSULATION BOARD (R–18) – PIPE CROSSINGS & STORM DRAIN INSULATION

SHEET	BEGIN STATION	END STATION	OFFSET	WIDTH (FT)	LENGTH (FT)	AREA (SF)	COMMENTS
SD1	304+79	–	CL	4	8	32	SEWER SERVICE (PARCEL 100)
SD2	100+16	–	24.88' LT	4	8	32	SEWER MAIN
	102+62	–	0.91' LT	4	8	32	SEWER SERVICE (PARCEL 101)
	102+74	–	15.50' RT	8	8	64	CBMH OVER SEWER MAIN – SEE DETAIL 4, SHEET SD12
	103+84	–	CL	4	8	32	SEWER SERVICE (PARCELS 174 & 175)
SD3	104+72	–	CL	4	8	32	SEWER SERVICE (PARCEL 102)
	106+18	–	CL	4	8	32	WATER SERVICE (PARCEL 167)
	106+73	–	CL	4	8	32	WATER SERVICE (PARCEL 178)
SD4	109+60	–	CL	4	8	32	SEWER SERVICE (PARCEL 104)
	113+59	–	CL	4	8	32	SEWER MAIN

INSULATION BOARD NOTES

1. *INSULATION BOARD SHALL BE INSTALLED I.A.W. TYPICAL STORM DRAIN SECTION (DETAIL 1, SHEET SD10) AND MASS DETAIL 20–9.*

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PLAN CHECK

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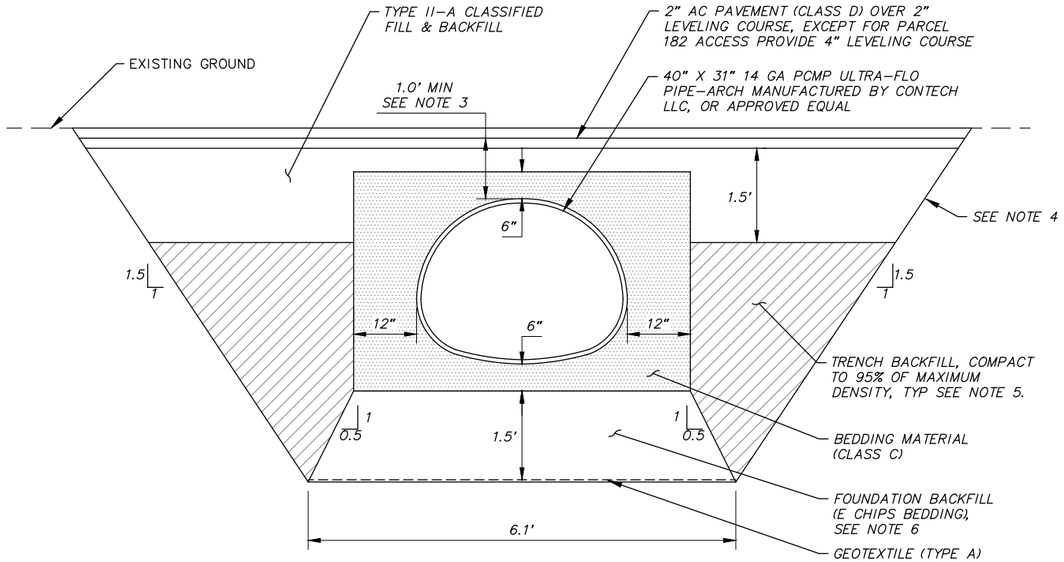
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18–06 | 42ND AVENUE UPGRADE – PHASE 1 | SCHED B
LAKE OTIS PARKWAY TO PIPER STREET

STORM DRAIN SUMMARY TABLES

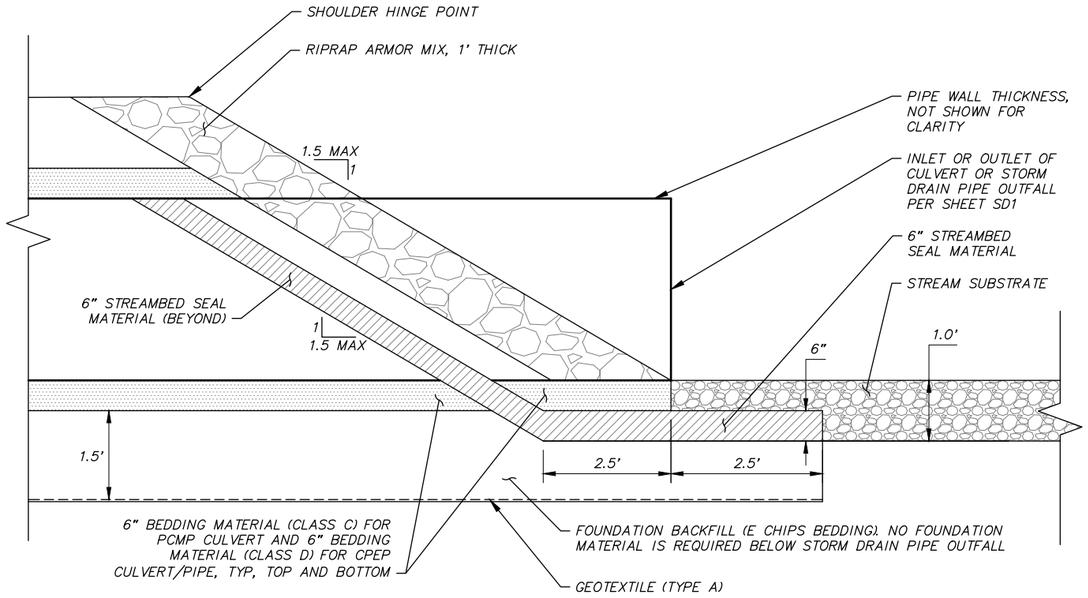
SCALE HOR. NTS VER. NTS | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD14 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Storm Drain Details_Phase 1.dwg



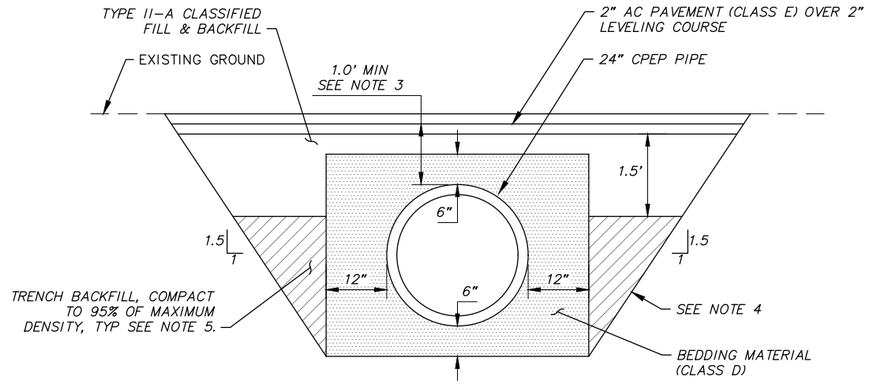
TYPICAL CULVERT TRENCH SECTION BEYOND ENDS FOR ARCH-PIPE

1 NTS



CULVERT INLET/OUTLET AND STORM DRAIN PIPE OUTFALL DETAIL - SIDE VIEW

3 NTS

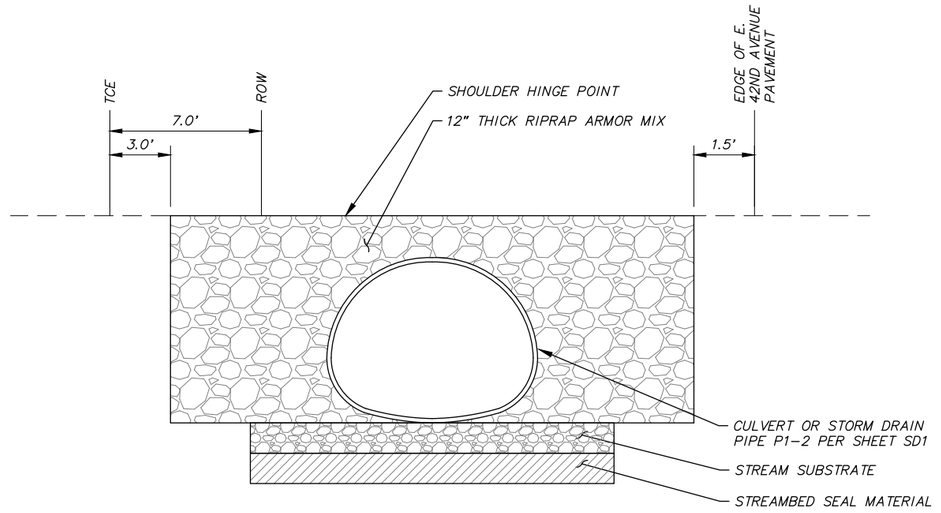


TYPICAL CULVERT TRENCH SECTION BEYOND ENDS FOR CIRCULAR PIPE

2 NTS

TYPICAL CULVERT TRENCH SECTION NOTES:

1. *SEE SHEET SD1 FOR CULVERT PLAN & PROFILE.*
2. *COMPACT BEDDING MATERIAL AROUND CULVERT EVENLY ON ALL SIDES IN 6" LIFTS.*
3. *PROVIDE MINIMUM COVER PER MANUFACTURERS RECOMMENDATIONS PRIOR TO DRIVING EQUIPMENT OVER CULVERTS.*
4. *TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY.*
5. *TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE IV CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE IV CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL WHEN DIRECTED IN WRITING BY THE ENGINEER.*
6. *FOUNDATION BACKFILL (E CHIPS BEDDING) SHALL NOT BE INSTALLED BENEATH CULVERT C1-4. DO NOT INSTALL BEDDING WHERE PROPOSED INSULATION BOARD IS REQUIRED BENEATH CULVERT C1-4 PER SHEET SD1.*



CULVERT INLET/OUTLET DETAIL - END VIEW

4 NTS

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
   CONTRACTOR: _____
   BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		
PLAN CHECK		

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED B
LAKE OTIS PARKWAY TO PIPER STREET

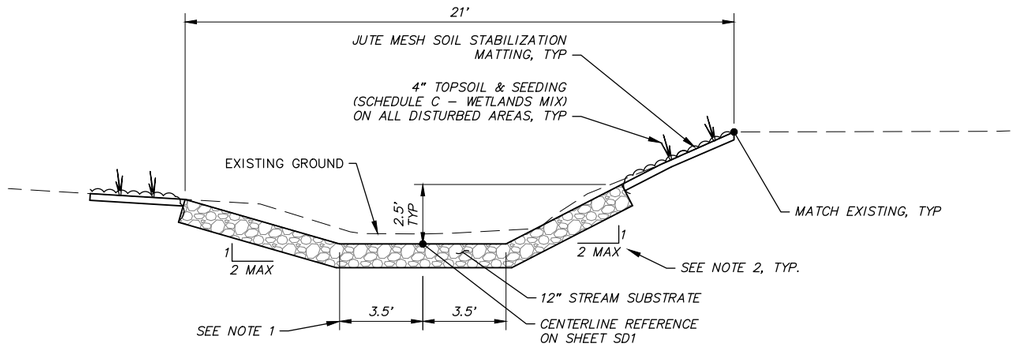
CULVERT DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD15 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Ditch Details.dwg

CREEK RECONSTRUCTION TYPICAL SECTION NOTES:

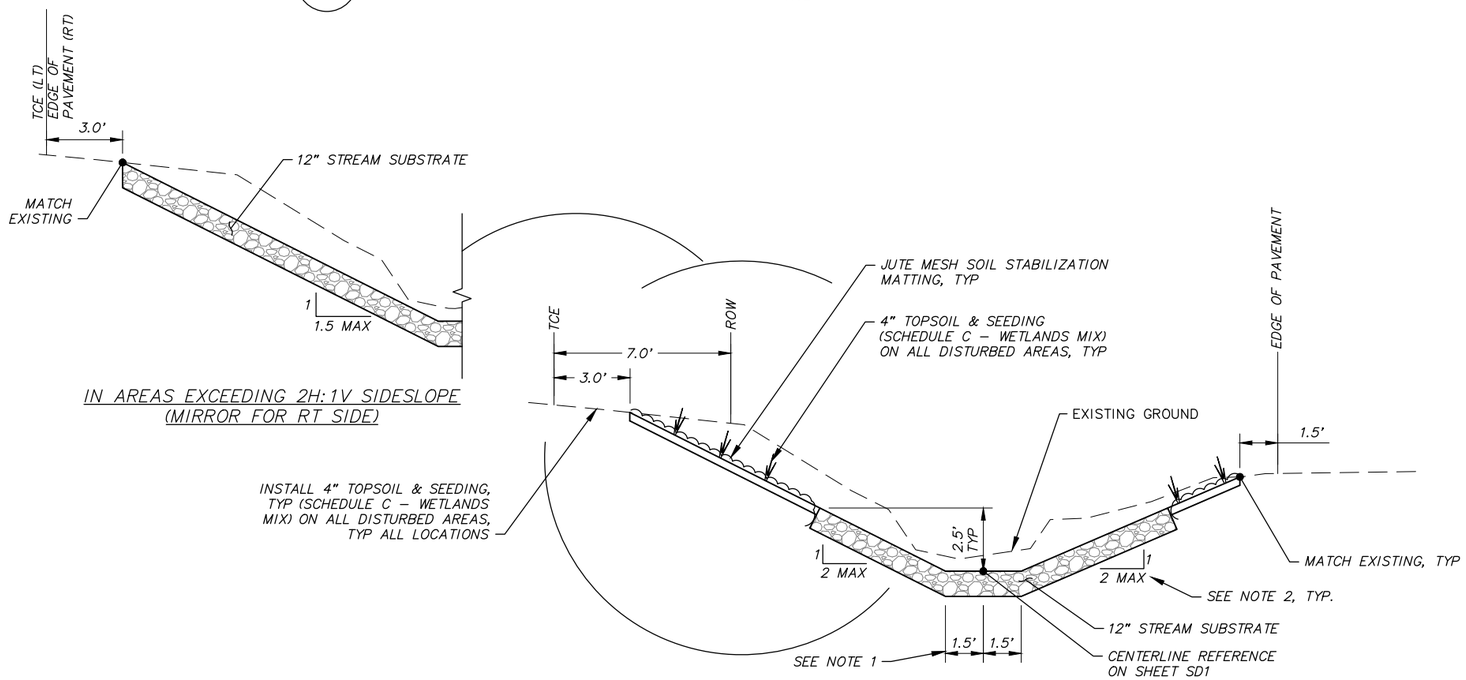
1. TRANSITION TO CULVERT OR STORM DRAIN PIPE WIDTH AT CULVERT INLET/OUTLET AND STORM DRAIN OUTFALL OVER 5 FEET.
2. FLATTEN GRADE TO LESS THAN 2H:1V IN ALL LOCATIONS WHERE FEASIBLE.



CREEK RECONSTRUCTION TYPICAL SECTION STATION 300+10 TO STATION 300+92

1

NTS



CREEK RECONSTRUCTION TYPICAL SECTION STATION 300+92 TO STATION 306+65

2

NTS

RECORD DRAWING

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   BY: _____ TITLE: _____ DATE: _____
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   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN		
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
BASIS OF THIS DATUM		

REVISIONS

REV	DATE	DESCRIPTION	BY

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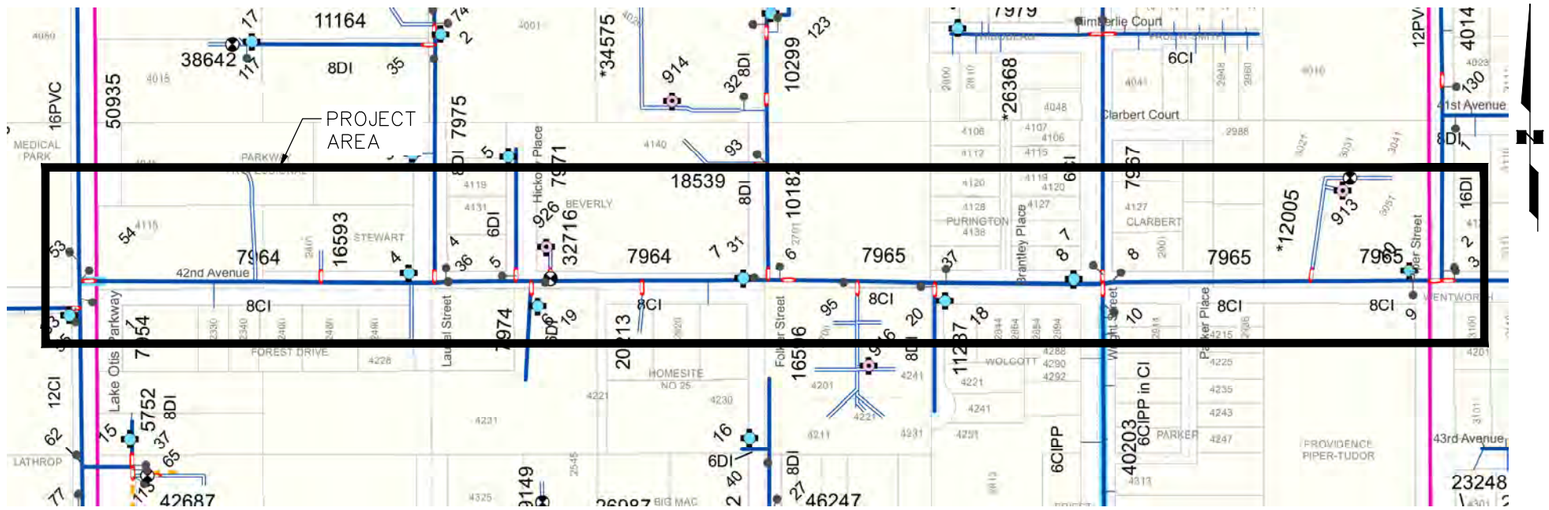
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 — 42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET — SCHED B

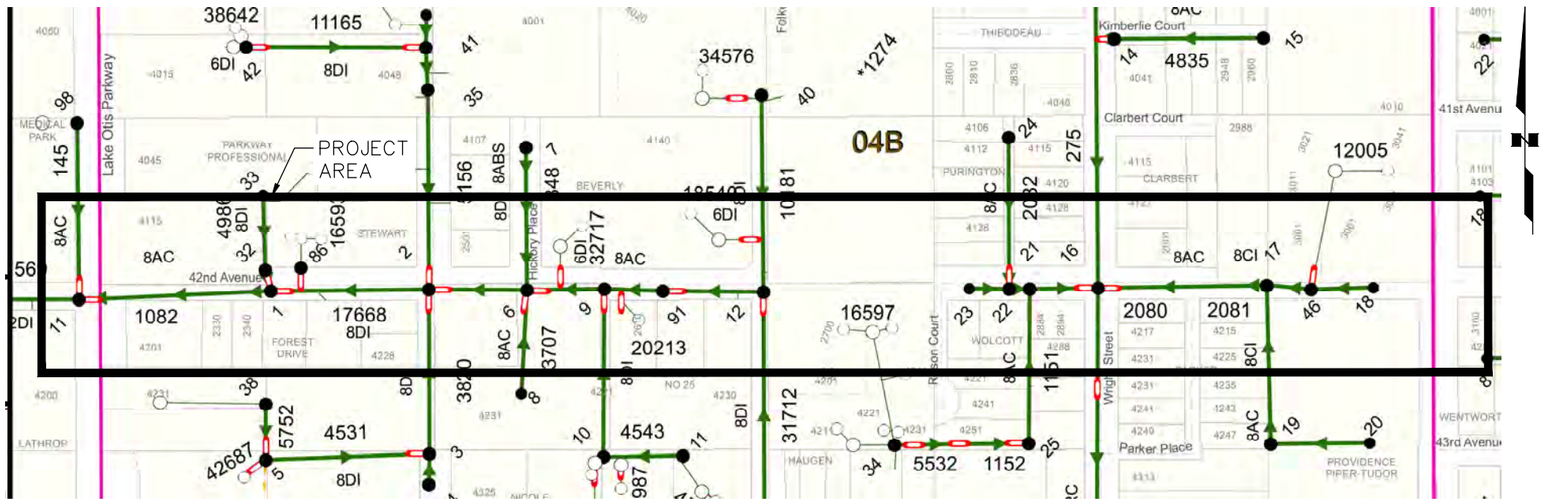
CREEK DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET SD16 of SD16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Ditch Details.dwg



WATER KEY MAP
SW1733, SW1734, SW1735
N.T.S



SEWER KEY MAP
SW1733, SW1734, SW1735
N.T.S

WATER NOTES

1. AWWU, ANCHORAGE FIRE DEPARTMENT AND WATER CUSTOMERS SHALL BE NOTIFIED ABOUT WATER SERVICE INTERRUPTIONS AND BE PROVIDED TEMPORARY WATER SERVICE IN ACCORDANCE WITH MASS, IF THE OUTAGE EXCEEDS 6–HOURS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL PREPARE AND SUBMIT A TEMPORARY WATER SERVICE PLAN FOR REVIEW AND APPROVAL BY ADEC, IF REVISED FROM WHAT IS SHOWN IN THE DRAWINGS.
2. THRUST RESTRAINT FOR PVC PIPE, FITTINGS, VALVES, AND DEAD ENDS SHALL BE MECHANICALLY RESTRAINED AT BENDS, TEES, AND HYDRANTS, UNLESS OTHERWISE IDENTIFIED ON THE PLANS.
3. ALL WATER MAINS SHALL BE A MINIMUM OF 8" IN DIAMETER PVC DR18 RJIB, AS SHOWN IN THE PLANS, CONFORMING TO THE REQUIREMENTS OF AWWA C900.
4. WATER SERVICE PIPE TYPE AND SIZES ARE SPECIFIED IN THE PLANS. ALL PVC WATER SERVICES SHALL BE DR18 RJIB, CONFORMING TO THE REQUIREMENTS OF AWWA C900.
5. TRANSITION COUPLING BETWEEN NEW WATER PIPE AND EXISTING PIPE SHALL BE SOLID SLEEVE COUPLERS WITH STAINLESS STEEL TYPE 316 NUTS, BOLTS AND WASHERS, OR APPROVED EQUAL.
6. THE CONTRACTOR SHALL PROVIDE ALL SETUP AND TEAR DOWN REQUIRED TO OPEN BORE FLUSH NEWLY INSTALLED WATER PIPE. AWWU WILL PROVIDE FLUSH WATER FROM THE AWWU WATER DISTRIBUTION SYSTEM. THE CONTRACTOR MUST REQUEST WATER AT LEAST 48 HOURS PRIOR TO OPEN BORE FLUSHING. OPEN BORE FLUSHING MUST TAKE PLACE PRIOR TO INSTALLATION OF WATER SERVICES.
7. ALL WATER MAINS, HYDRANT LEGS AND SERVICE PIPE BEDDING SHALL BE "E CHIPS" WRAPPED IN GEOTEXTILE (TYPE A) FABRIC AND ALL BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY.
8. ALL WATER MAINS, HYDRANT LEGS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS.
9. PVC PIPE SHALL NOT BE BENT, FLEXED OR DEFLECTED AT PIPE TO PIPE JOINTS WITHOUT THE USE OF DEFLECTION COUPLERS. DEFLECTION MAY NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDED LIMITS IN FITTINGS, VALVES AND DEFLECTION COUPLERS.
10. ALL WATER MAIN STATIONING IS PIPE CENTERLINE STATIONING.
11. PROVIDE A TRACER WIRE AND WARNING TAPE ON ALL PVC WATER LINES AS SHOWN IN THESE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS.
12. INSTALL ANODES AT ALL FITTINGS, VALVES, WATER SERVICES, TRANSITION COUPLERS AND HYDRANTS PER MASS STANDARD DETAILS UNLESS OTHERWISE SHOWN ON THE PLANS.

AWWU PLAN SET NO. 11044

PLOT DATE: 8/25/2023 3:57 PM
PLOT SCALE:
ACAD FILE: k:\Jobs\Data\V0142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Key Map Notes.dwg

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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   BY: _____ TITLE: _____
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   COMPANY: _____
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   BY: _____ TITLE: _____
   DATE: _____

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CONSULTANT

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SEAL

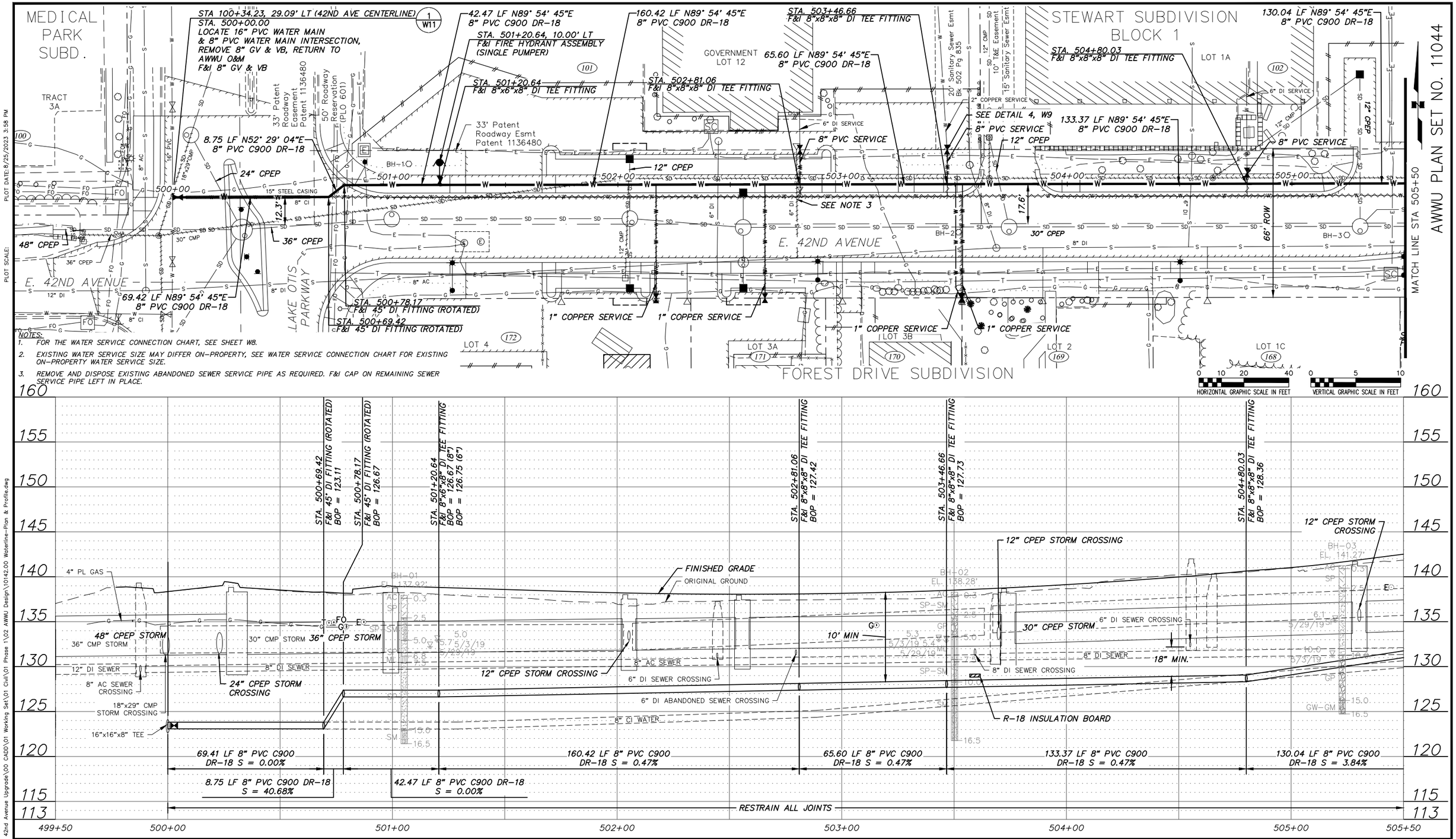
ANCHORAGE WATER & WASTEWATER UTILITY — AWWU — MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

KEY MAPS & WATER NOTES

HORZ SCALE: N/A | VERT SCALE: N/A | DATE: AUG 2023 | GRID: SW1733–35
PROJ. ID.: WW00058
SHEET W1 of W19



NOTES:
1. FOR THE WATER SERVICE CONNECTION CHART, SEE SHEET W8.
2. EXISTING WATER SERVICE SIZE MAY DIFFER ON-PROPERTY, SEE WATER SERVICE CONNECTION CHART FOR EXISTING ON-PROPERTY WATER SERVICE SIZE.
3. REMOVE AND DISPOSE EXISTING ABANDONED SEWER SERVICE PIPE AS REQUIRED. F&I CAP ON REMAINING SEWER SERVICE PIPE LEFT IN PLACE.

PLOT DATE: 8/25/2023 3:58 PM
PLOT SCALE:
ACAD FILE: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Waterline-Plan & Profile.dwg

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---
PLAN CHECK					

REV	DATE	DESCRIPTION	BY
REVISIONS			

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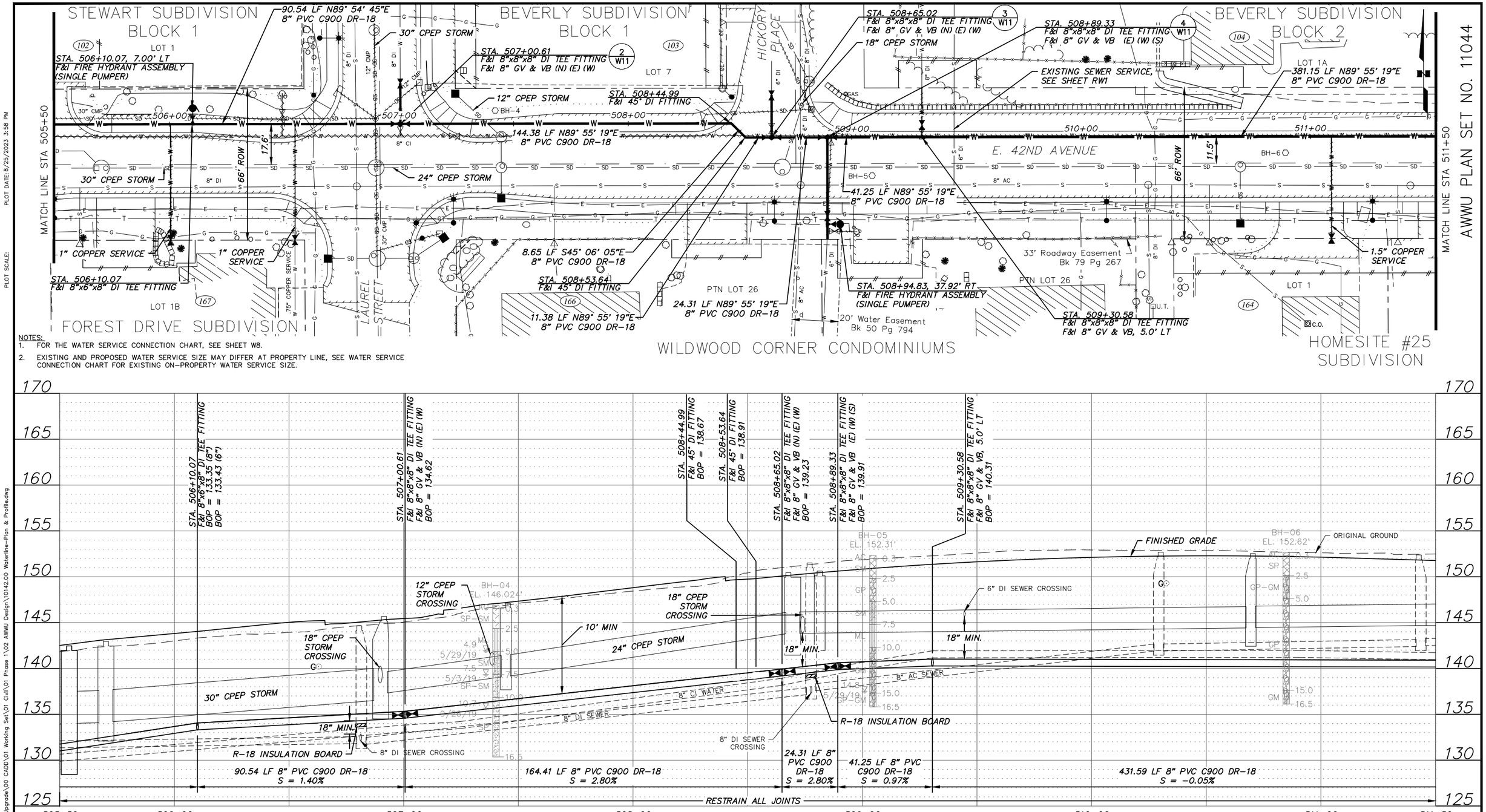
42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

WATER MAIN PLAN & PROFILE
BOP - STA 505+50

HORZ SCALE: 1" = 20' | VERT SCALE: 1" = 5' | DATE: AUG 2023 | GRID: SW1733-35
PROJ. ID.: WW00058 | SHEET W2 of W19



NOTES:
1. FOR THE WATER SERVICE CONNECTION CHART, SEE SHEET W8.
2. EXISTING AND PROPOSED WATER SERVICE SIZE MAY DIFFER AT PROPERTY LINE, SEE WATER SERVICE CONNECTION CHART FOR EXISTING ON-PROPERTY WATER SERVICE SIZE.

0 10 20 40 HORIZONTAL GRAPHIC SCALE IN FEET
0 5 10 VERTICAL GRAPHIC SCALE IN FEET

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" ——— 1"
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FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

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BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

WATER MAIN PLAN & PROFILE
STA 505+50 - STA 511+50

HORZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W3 of W19

AWWU PLAN SET NO. 11044

PLOT DATE: 8/25/2023 3:58 PM
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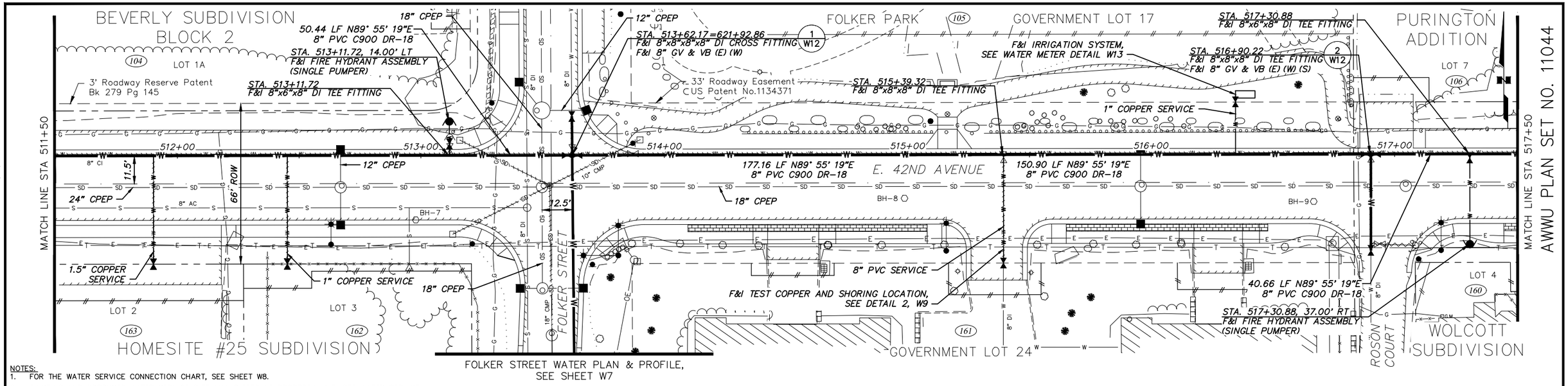

FOLKER STREET WATER PLAN & PROFILE,
SEE SHEET W7

NOTES:
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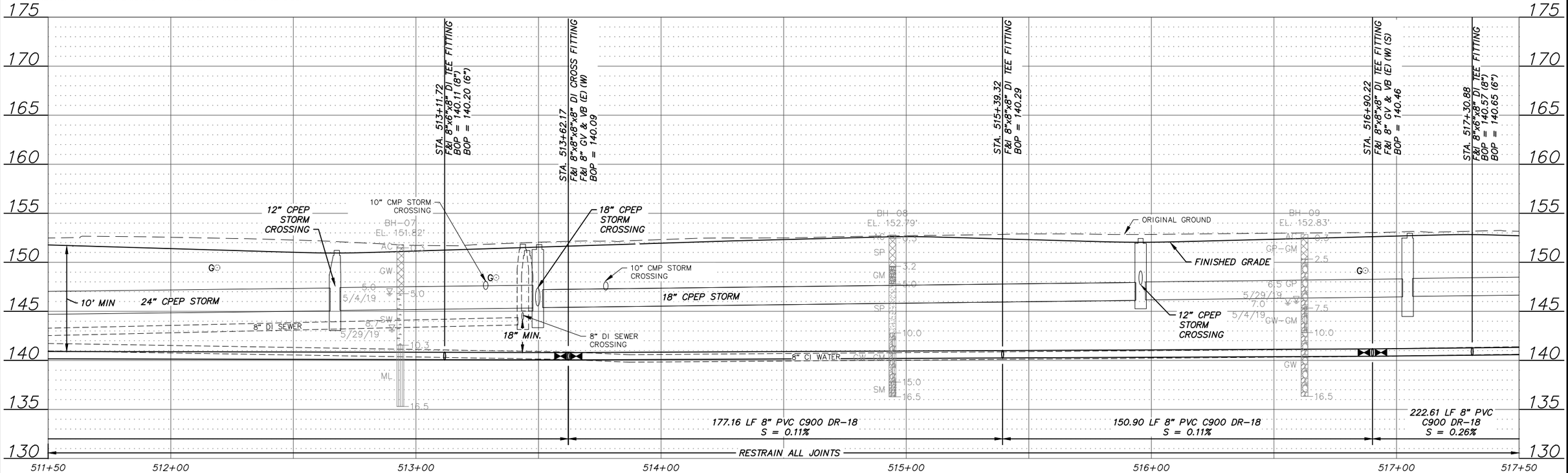
2. EXISTING AND PROPOSED WATER SERVICE SIZE MAY DIFFER AT PROPERTY LINE, SEE WATER SERVICE CONNECTION CHART FOR EXISTING ON-PROPERTY WATER SERVICE SIZE.



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FULL SIZE SCALE
HORZ SCALE: N/A
VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

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Micah K. Schoming
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SEAL

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

WATER MAIN PLAN & PROFILE
STA 511+50 - STA 517+50

HORZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W4 of W19

PLOT DATE: 8/25/2023 3:58 PM
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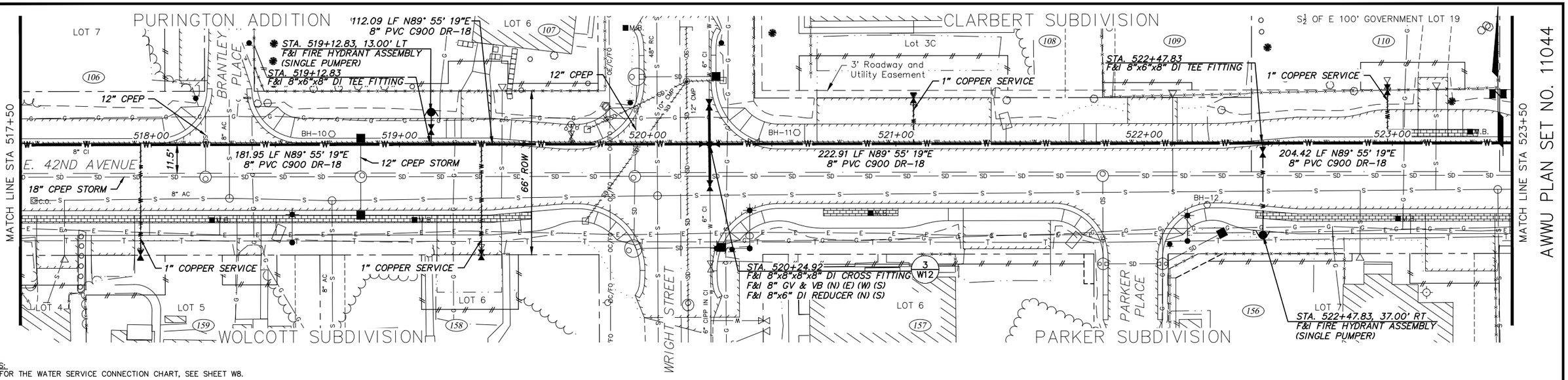

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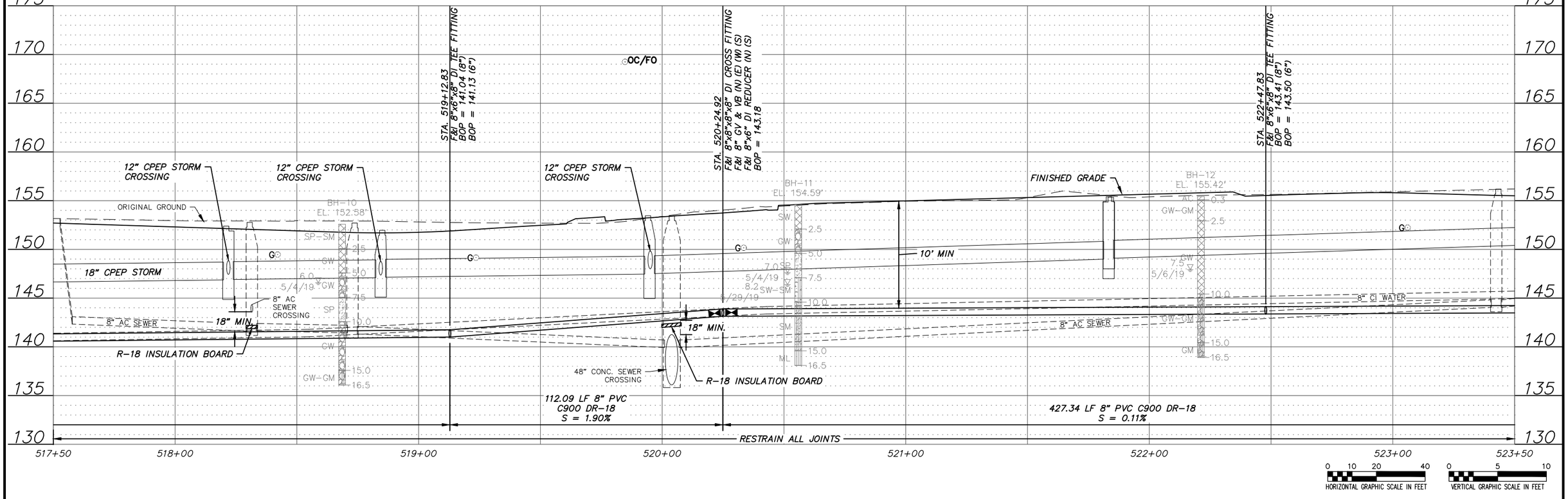

0 10 20 40 HORIZONTAL GRAPHIC SCALE IN FEET

0 5 10 VERTICAL GRAPHIC SCALE IN FEET

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FULL SIZE SCALE
HORZ SCALE: N/A
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DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

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Micah K. Schoming
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ANCHORAGE WATER & WASTEWATER UTILITY AWWU MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

WATER MAIN PLAN & PROFILE
STA 517+50 - STA 523+50

HORZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W5 of W19

PLOT DATE: 8/25/2023 3:59 PM
PLOT SCALE:
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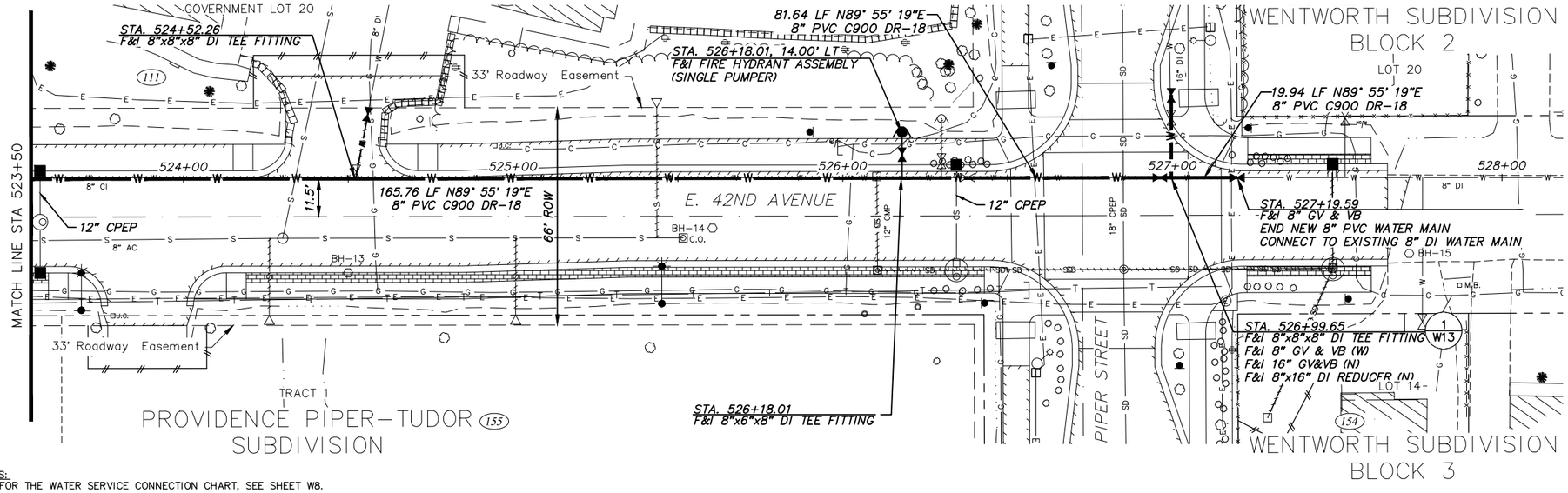
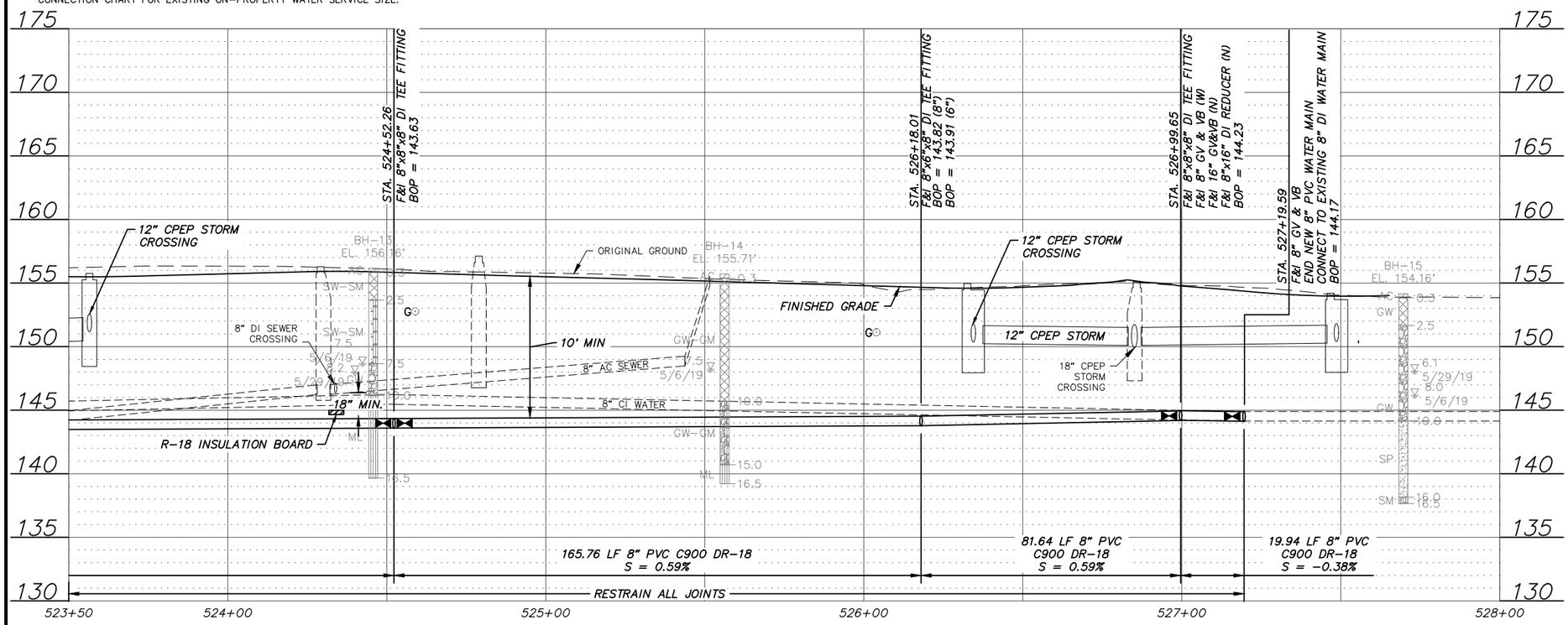


NOTES:
1. FOR THE WATER SERVICE CONNECTION CHART, SEE SHEET W8.
2. EXISTING AND PROPOSED WATER SERVICE SIZE MAY DIFFER AT PROPERTY LINE, SEE WATER SERVICE CONNECTION CHART FOR EXISTING ON-PROPERTY WATER SERVICE SIZE.



0 10 20 40 HORIZONTAL GRAPHIC SCALE IN FEET
0 5 10 VERTICAL GRAPHIC SCALE IN FEET

AWWU PLAN SET NO. 11044

PLOT DATE: 8/25/2023 3:59 PM
PLOT SCALE:
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DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

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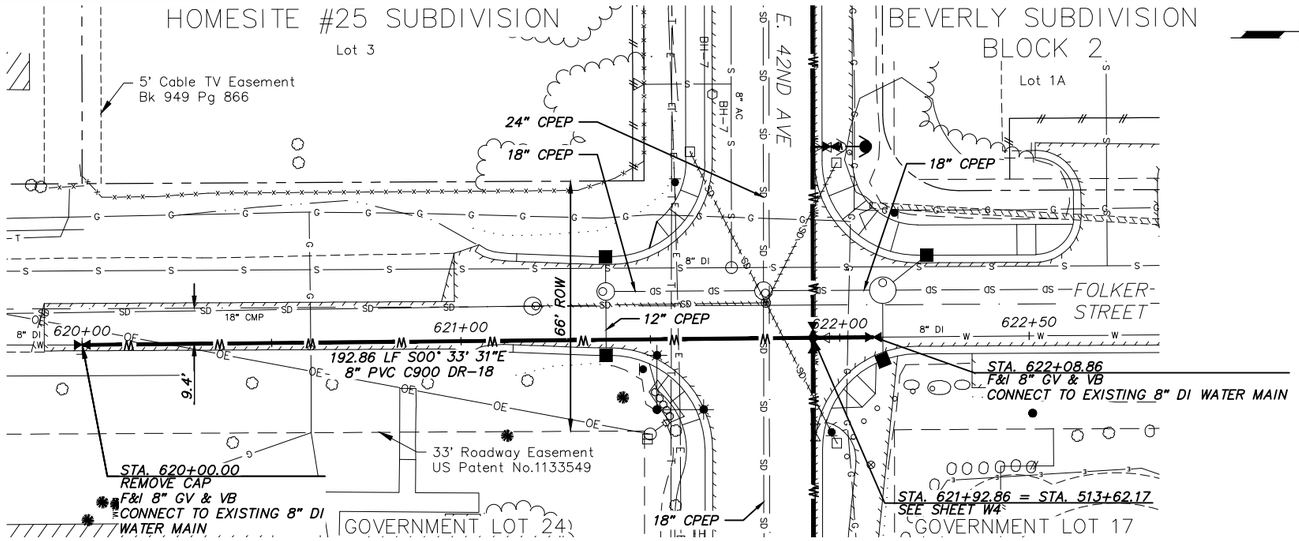
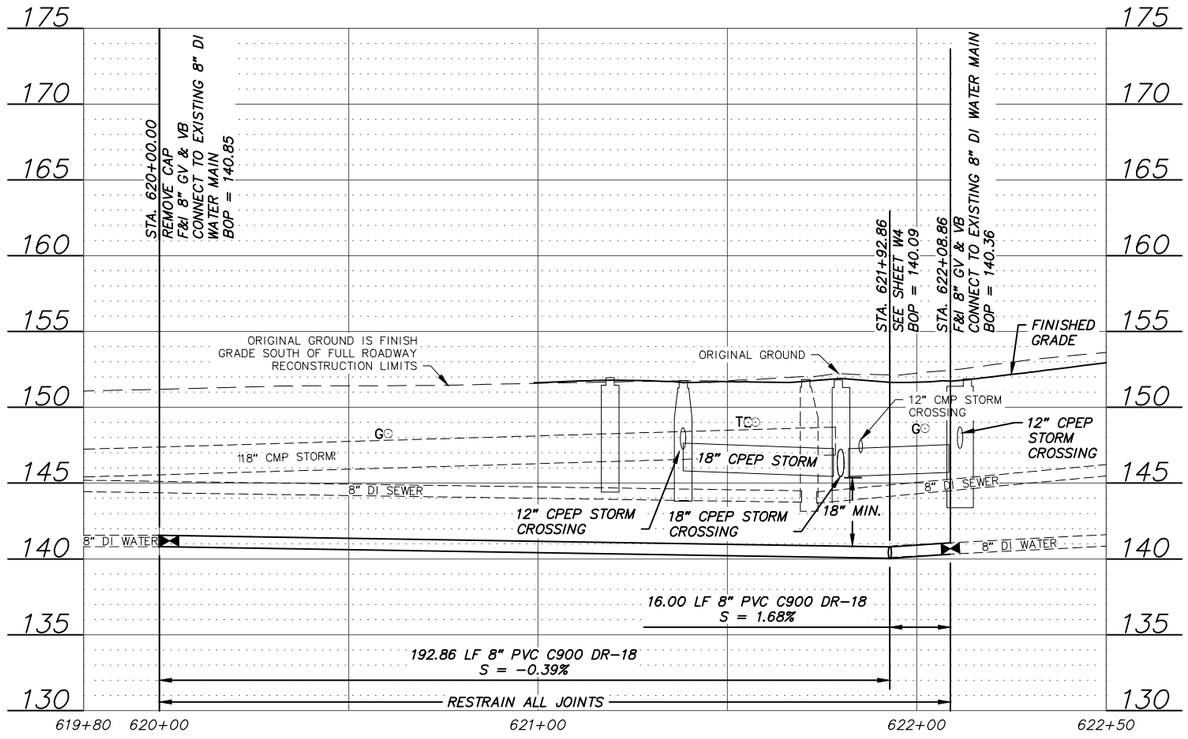
SHEET W6 of W19





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0 5 10 VERTICAL GRAPHIC SCALE IN FEET

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PLOT SCALE:
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WATER MAIN PLAN & PROFILE - FOLKER STREET

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DATE: AUG 2023
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PROJ. ID.: WW00058
SHEET W7 of W19

WATER SERVICE CONNECTION CHART

SHEET ID	PARCEL ID	LEGAL DESCRIPTION	EXISTING WATER SERVICE SIZE, IN	PROPOSED WATER SERVICE SIZE, IN	PROPOSED WATER SERVICE PIPE TYPE	WATER MAIN STA	WATER SERVICE OFFSET DIRECTION FROM MAIN	WATER MAIN STA @ PROPERTY LINE	DISTANCE FROM MAIN TO PROPERTY LINE, FT	DISTANCE FROM MAIN TO PROPERTY LINE, FT*	OFFSET FROM NEAREST PROPERTY LINE, FT	OFFSET FROM NEAREST PROPERTY LINE, FT*	BOP SERVICE ELEVATION @ MAIN, FT	BOP SERVICE ELEVATION @ MAIN, FT*	APPROX. BOP SERVICE ELEVATION @ PROPERTY LINE, FT	BOP SERVICE ELEVATION @ PROPERTY LINE, FT*
W2	172	FOREST DRIVE LOT 4	1	1	TYPE K COPPER	502+16.96	RT	502+16.89	50.5		15.5		127.1		126.5	
W2	171	FOREST DRIVE LOT 3A	3/4	1	TYPE K COPPER	205+65.43	RT	502+65.36	50.5		27.0		127.3		127.0	
W2	101	T13N R3W SEC 28 LOT 12	6	8	PVC	502+81.06	LT	502.81.02	15.5		80.5		127.4		126.2	
W2	174	PARKWAY PROFESSIONAL LOT 1	2	8	PVC	503+46.66	LT	503+46.54	15.5		15.0		127.7		126.6	
W2	170	FOREST DRIVE LOT 3B	1	1	TYPE K COPPER	503+50.36	RT	503+52.75	50.5		0.3		127.7		129.0	
W2	169	FOREST DRIVE LOT 2	1	1	TYPE K COPPER	503+53.36	RT	503+53.29	50.5		0.3		127.7		129.0	
W2	102**	STEWART LOT 1A LAUREL PARK BUILDING	6	8	PVC	504+80.03	LT	504+79.99	15.6		118.5		128.3		131.5	
W3	167	FOREST DRIVE LOT 1B	3/4	1	TYPE K COPPER	506+00.31	RT	506+00.24	50.4		52.2		132.9		136.3	
W3	178	FOREST DRIVE LOT 1A	1	1	TYPE K COPPER	506+54.65	RT	506+54.58	50.4		4.3		132.7		136.7	
W3	104	BEVERLY BLK 2 LOT 1A	8	8	PVC	509+30.58	LT	509+30.57	23.0		25.1		140.3		140.2	
W3	164	T13N R3W SEC 28 HMST #25 LOT 1 OF 25	1.5	1.5	TYPE K COPPER	511+09.23	RT	511+09.16	45.2		24.5		140.8		142.2	
W4	163	T13N R3W SEC 28 HMST #25 LOT 2 OF 25	1.5	1.5	TYPE K COPPER	511+90.15	RT	511+90.08	45.2		37.0		140.6		142.3	
W4	162	T13N R3W SEC 28 HMST #25 LOT 3 OF 25	1	1	TYPE K COPPER	512+46.49	RT	512+45.08	45.2		18.0		140.3		142.1	
W4	161	T13N R3W SEC 28 LT 24 COLLEGE PLACE	8	8	PVC	515+39.32	RT	515+39.24	45.0		144.2		140.3		142.0	
W4	105	T13N R3W SEC 28 LOT 17 42ND & FOLKER PARK	N/A	1	TYPE K COPPER	516+34.66	LT	516+34.62	21.1		48.6		140.3		142.8	
W5	159	WOLCOTT LOT 5	3/4	1	TYPE K COPPER	517+95.72	RT	517.95.65	44.9		22.2		140.7		142.6	
W5	158	WOLCOTT LOT 6	1.5	1.5	TYPE K COPPER	519+33.01	RT	519+32.94	44.8		47.4		141.4		142.6	
W5	108	CLARBERT LOT 3C	1	1	TYPE K COPPER	521+07.11	LT	521+07.15	18.2		64.0		143.2		145.8	
W5	110	T13N R3W SEC 28 LOT 19 S2 E100'	3/4	1	TYPE K COPPER	522+98.06	LT	522+98.02	21.3		45.3		143.4		146.5	
W6	111	T13N R3W SEC 28 LOT 20 COUNTRY SQUARE PHASE 1	8	8	PVC	524+52.26	LT	524+55.89	21.4		113.0		143.6		145.4	

* TO BE COMPLETED AS PART OF RECORD DRAWING

** INSTALL NEW WATER VALVE 5 FEET LEFT, TO AVOID UNDERMINING RETAINING WALL. CONNECT TO EXISTING WATER SERVICE PIPE.

AWWU PLAN SET NO. 11044

PLOT DATE: 8/25/2023 4:00 PM

PLOT SCALE:

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LAKE OTIS PARKWAY TO PIPER STREET

WATER SERVICE CONNECTION TABLE

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VERT SCALE: N/A
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W8 of W19

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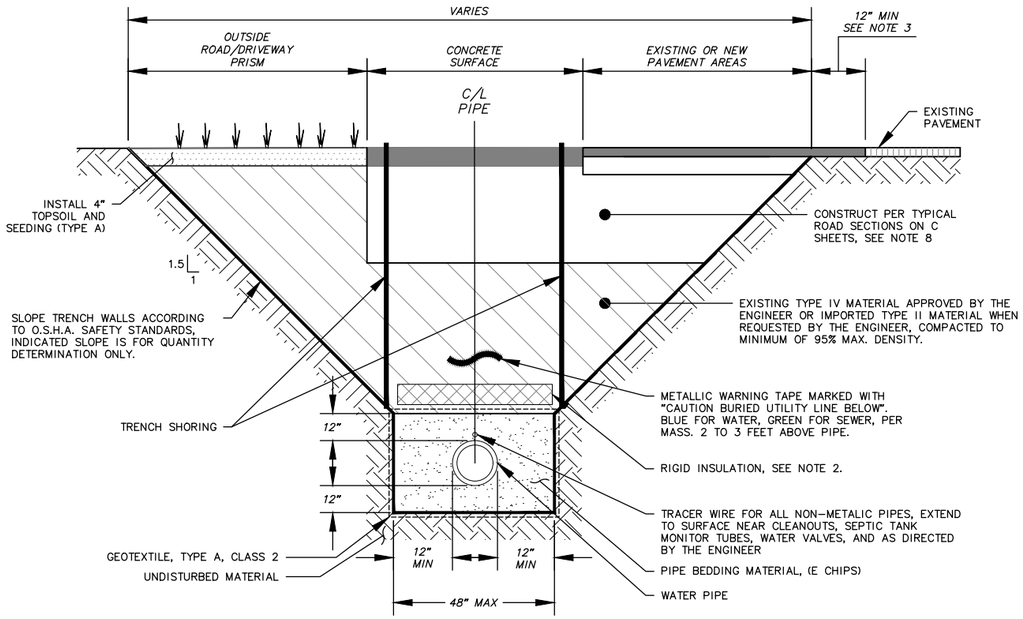
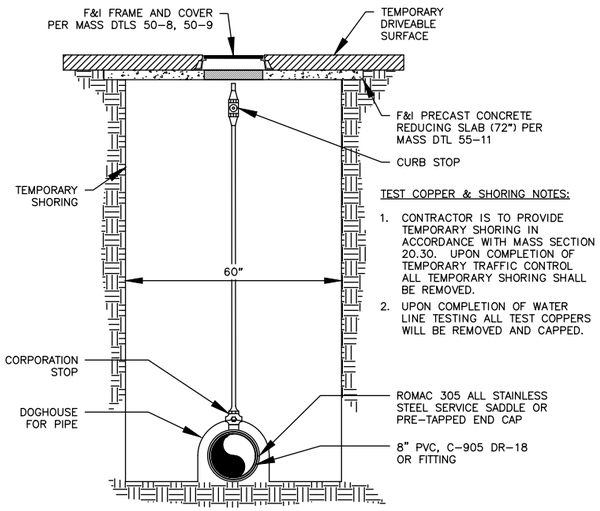


TRENCH SECTIONS NOTES:

1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. PROVIDE TRENCH SHORING AS NEEDED TO SUPPORT EXCAVATION AND STAY WITHIN ROW AND TEMPORARY CONSTRUCTION EASEMENTS.
2. R-18 RIGID INSULATION PER MASS STANDARD DETAIL 20-9, WHERE WATER PIPE HAS LESS THAN 10' OF COVER.
3. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR WILL SAW CUT AND REMOVE AN ADDITIONAL 12-INCHES BEYOND THE DISTURBED, EXISTING PAVEMENT EDGE. THE ENGINEER WILL REQUIRE MORE THAN A 12-INCH ADDITIONAL CUT IF THE PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE.
4. LONGITUDINAL JOINTS IN THE TOP LAYER OF PAVEMENT MUST BE OFFSET NOT MORE THAN 6" FROM CENTERLINE OF EDGE OF STRIPE AND AT LEAST 4" FROM BOTTOM LAYER OF PAVEMENT.
5. ALL PAVEMENT DEPTHS GREATER THAN 3 INCHES MUST BE PLACED IN MULTIPLE LAYERS WITH NO LAYER EXCEEDING 3 INCHES.
6. TACK COAT ALL VERTICAL SURFACES OF EXISTING ASPHALT THAT WILL BE IN CONTACT WITH NEW ASPHALT PAVEMENT AND BETWEEN LIFTS OF NEW ASPHALT PAVEMENT.
7. REMOVE AND PROPERLY DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
8. THE CONTRACTOR SHALL BACKFILL TO THE ORIGINAL GROUND SURFACE OF THE TRENCH WHEN NECESSARY TO PROVIDE ADEQUATE TEMPORARY DRIVING SURFACE DURING CONSTRUCTION AND PRIOR TO THE ROADWAY/DRIVEWAY EXCAVATION. THE CONTRACTOR SHALL BACKFILL THE TRENCH WITH NATIVE MATERIALS. SEE SPECIFICATIONS FOR MORE ADDITIONAL INFORMATION.

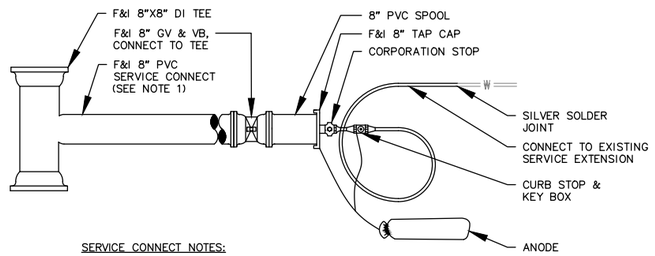
1 / W9 — TYPICAL WATER TRENCH DETAIL
N.T.S.



TEST COPPER & SHORING NOTES:

1. CONTRACTOR IS TO PROVIDE TEMPORARY SHORING IN ACCORDANCE WITH MASS SECTION 20.30. UPON COMPLETION OF TEMPORARY TRAFFIC CONTROL ALL TEMPORARY SHORING SHALL BE REMOVED.
2. UPON COMPLETION OF WATER LINE TESTING ALL TEST COPPERS WILL BE REMOVED AND CAPPED.

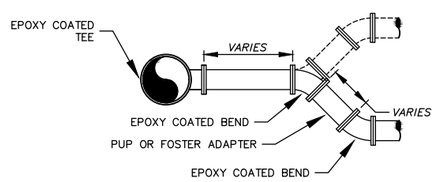
2 / W9 — TEST COPPER AND SHORING
N.T.S.



SERVICE CONNECT NOTES:

1. 8" SHALL BE RESTRAINED.
2. ALL JOINTS WILL BE MECHANICALLY RESTRAINED.

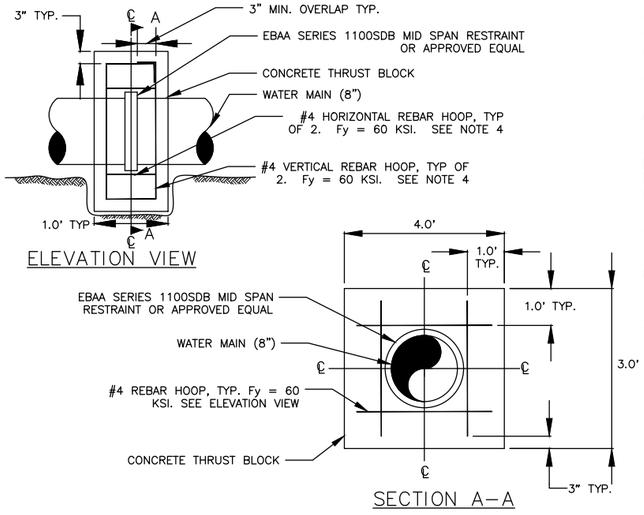
4 / W9 — 8" TO 2" TRANSITION DETAIL
N.T.S.



TYP. VERTICAL ADJUSTMENT NOTES:

1. VERTICAL AND HORIZONTAL ADJUSTMENT WORK IS INCIDENTAL TO FURNISH & INSTALL WATER PIPE AND SERVICE LINE.
2. CONTRACTOR SHALL EXSPOSE SERVICES AT TIE-IN POINT PRIOR TO INSTALLATION OF SERVICE TO VERIFY DEPTH AND PLAN THE CONNECTION.

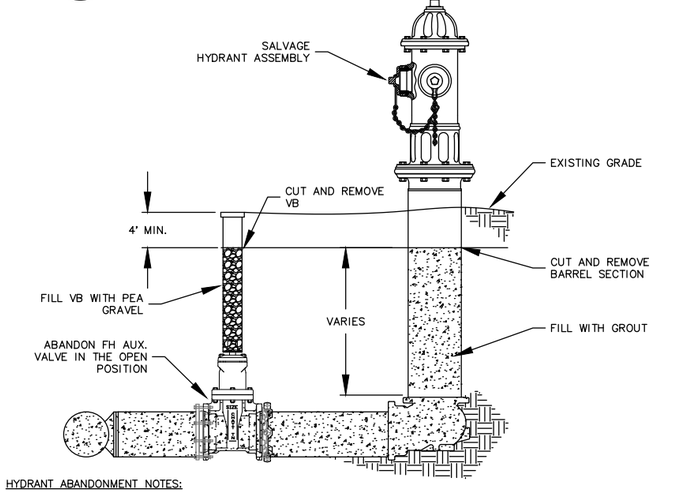
6 / W9 — TYP. VERTICAL ADJUSTMENT FOR SERVICE CONNECTIONS
N.T.S.



MID SPAN THRUST ANCHOR NOTES:

1. INSTALL MID SPAN THRUST ANCHOR TO PROVIDE TEMPORARY RESTRAINT TO THE END OF EXISTING WATER LINE MAIN, SIZED ACCORDING TO PIPE DIAMETER.
2. INSTALL EBAA SERIES 1100SDB MID SPAN RESTRAINT PER MANUFACTURER'S INSTRUCTIONS.
3. BACKFILL AROUND THRUST ANCHOR SHALL BE TYPE II-A CLASSIFIED FILL COMPACTED TO A MINIMUM OF 95% MAXIMUM DENSITY.
4. PROVIDE FOUR CONTINUOUS #4 REBAR HOOPS IN THRUST ANCHOR. PLACE HOOPS PARALLEL TO HORIZONTAL AND VERTICAL AXIS 2 EACH.
5. CONCRETE SHALL REACH 75% OF 4000 PSI DESIGNMAXIMUM STRENGTH BEFORE PUTTING THRUST BLOCK ANCHOR INTO SERVICE.
6. WHERE NEW PIPE IS USED, CONTRACTOR MAY CONSTRUCT THE THRUST BLOCK AND PIPE ASSEMBLY COMPLETE BEFORE INSTALLING INTO THE WATER SYSTEM.

3 / W9 — MID-SPAN THRUST BLOCK
N.T.S.



HYDRANT ABANDONMENT NOTES:

1. CONTRACTOR CAN EITHER USE HYDRANT AS GROUT VENT OR INSTALL 6" X 2" MJ CAP WITH GROUT VENT TUBE TO THE REMAINING BARREL SECTION FOR ABANDONMENT OF THE WATER MAIN, HYDRANT LEG, AND REMAINING BARREL SECTION.
2. ABANDON HYDRANT WORK IS INCIDENTAL TO ABANDONING WATER MAIN.

7 / W9 — FIRE HYDRANT AND VALVE BOX ABANDONMENT
N.T.S.

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DETAILS

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DATE: AUG 2023
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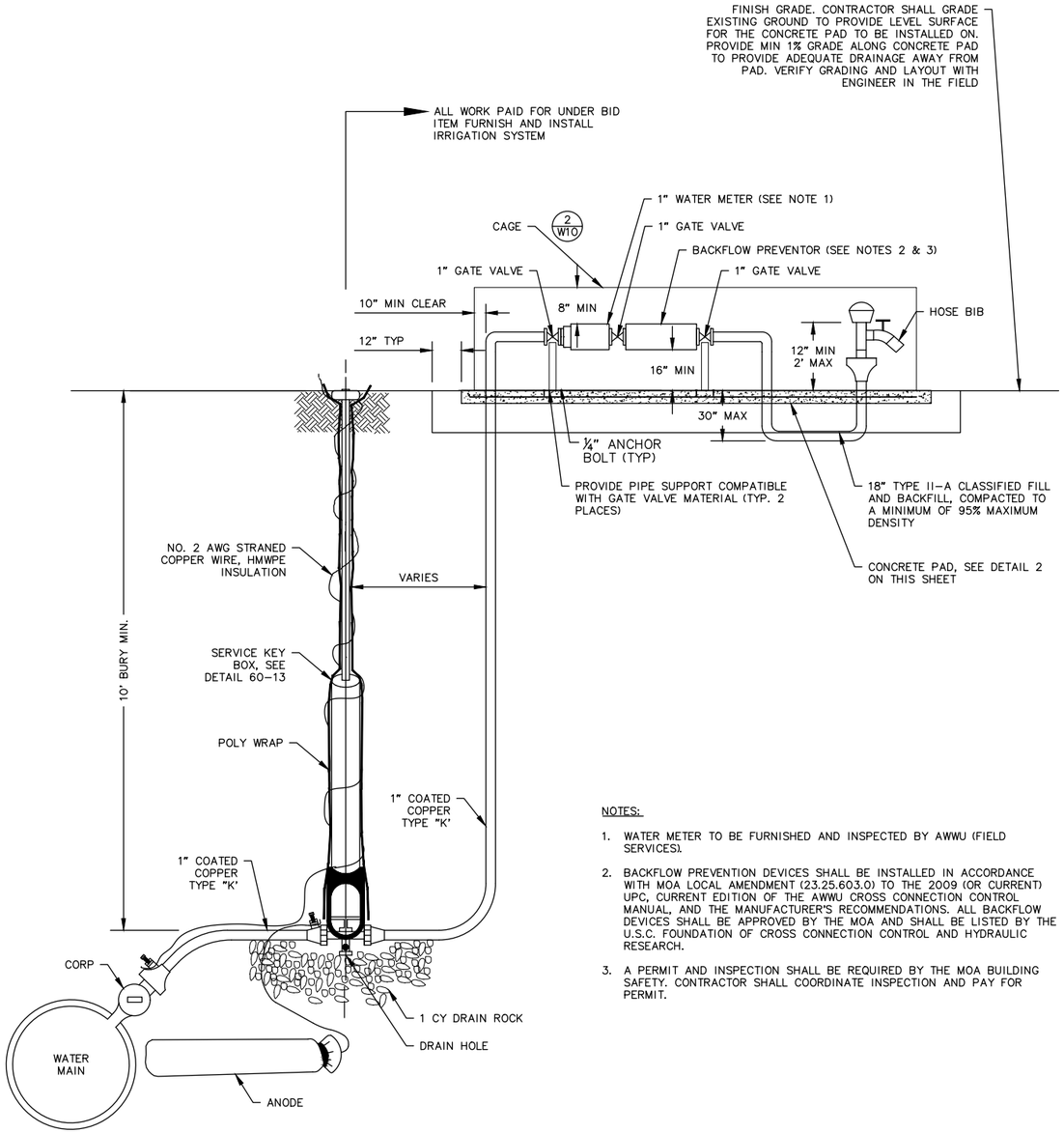
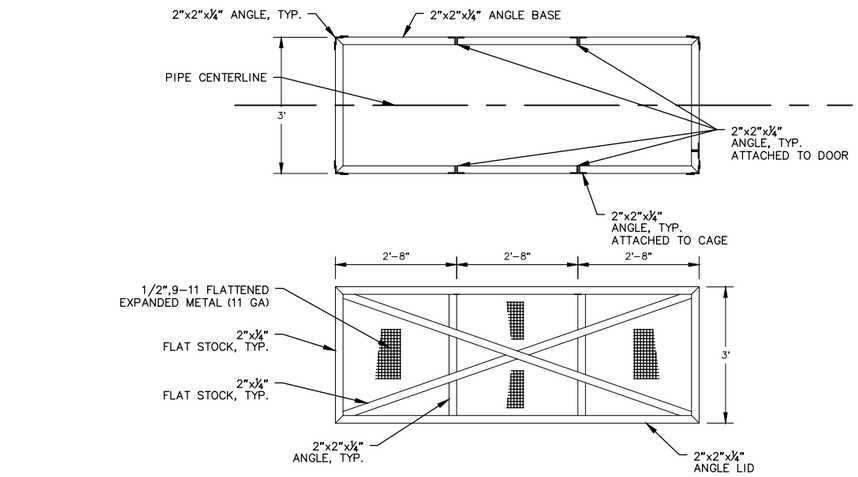
SHEET W9 of W19

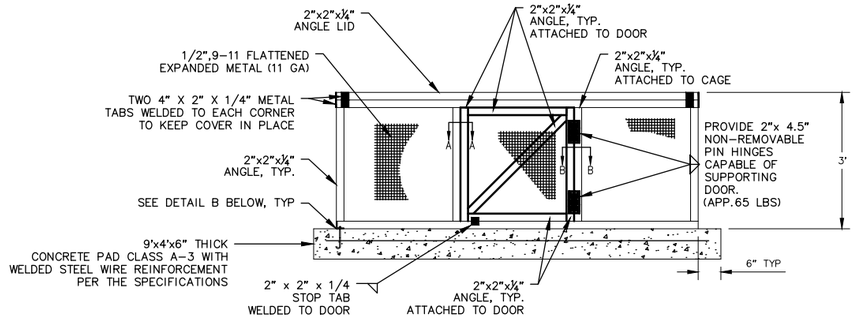


NOTES:

1. WATER METER TO BE FURNISHED AND INSPECTED BY AWWU (FIELD SERVICES).
2. BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED IN ACCORDANCE WITH MOA LOCAL AMENDMENT (23.25.603.0) TO THE 2009 (OR CURRENT) UPC, CURRENT EDITION OF THE AWWU CROSS CONNECTION CONTROL MANUAL, AND THE MANUFACTURER'S RECOMMENDATIONS. ALL BACKFLOW DEVICES SHALL BE APPROVED BY THE MOA AND SHALL BE LISTED BY THE U.S.C. FOUNDATION OF CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH.
3. A PERMIT AND INSPECTION SHALL BE REQUIRED BY THE MOA BUILDING SAFETY. CONTRACTOR SHALL COORDINATE INSPECTION AND PAY FOR PERMIT.

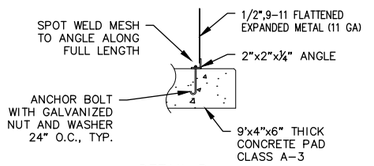
1 W10 IRRIGATION SYSTEM DETAIL
N.T.S.



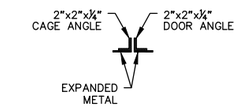


NOTES:

1. ALL METAL SURFACES SHALL BE POWDER COATED COLOR SHALL BE DARK GREEN AS APPROVED BY ENGINEER.
2. PROVIDE FOUR--1/2" EYE BOLTS AT CORNERS OF COVER FOR LIFTING.
3. PROVIDE LATCHES ON BOTH ENDS OF CAGE, AND ON BOTH DOORS FOR LOCKING PURPOSES.
4. SPOT WELD EXPANDED METAL TO ANGLE IRONS FULL LENGTH.



DETAIL B



SECTION A-A

2 W10 CAGE & CONCRETE PAD DETAIL
N.T.S.

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1"
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

1. DATA PROVIDED BY: _____
   This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
   CONTRACTOR: _____
   BY: _____ TITLE: _____
   DATE: _____
2. DATA TRANSFERRED BY: _____
   COMPANY: _____
   DATE: _____
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
   DATA TRANSFER CHECKED BY: _____
   COMPANY: _____
   BY: _____ TITLE: _____
   DATE: _____

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

CONSULTANT

STATE OF ALASKA 49 TH
Micah K. Schoming
CE-10568
REGISTERED PROFESSIONAL ENGINEER

SEAL

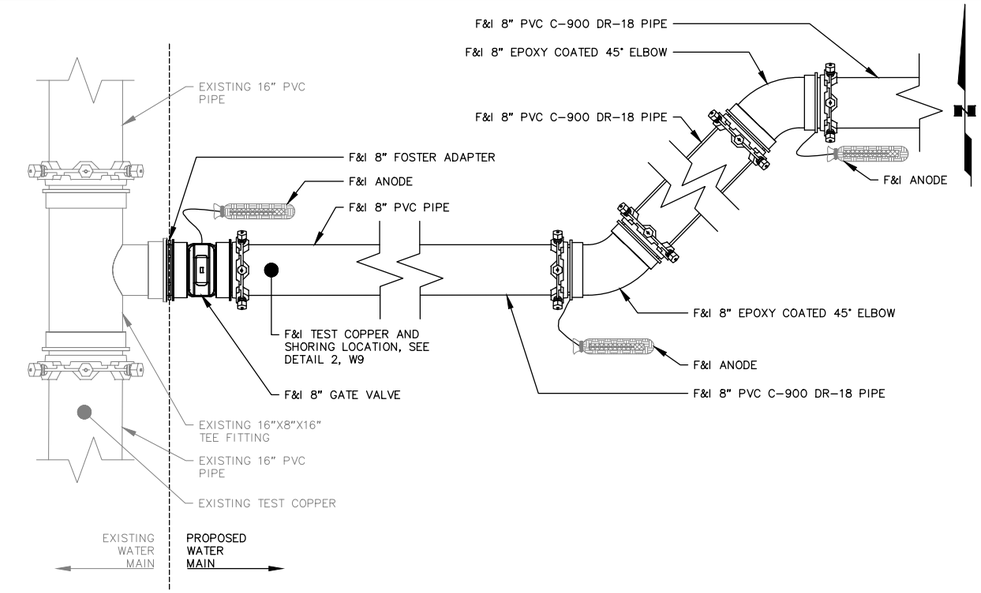
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

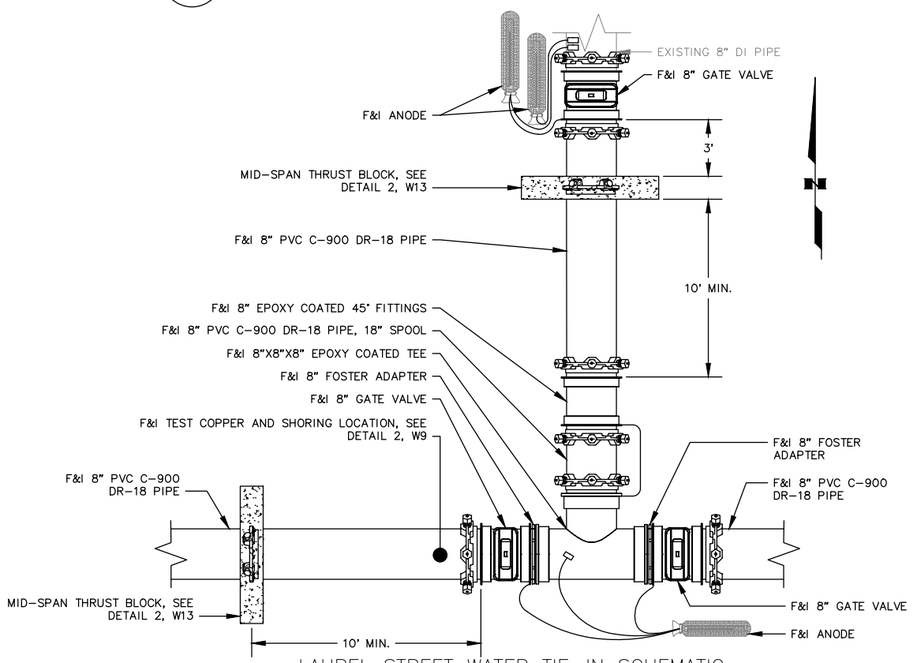
IRRIGATION SYSTEM DETAILS

HORZ SCALE: N/A
VERT SCALE: N/A
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W10 of W19

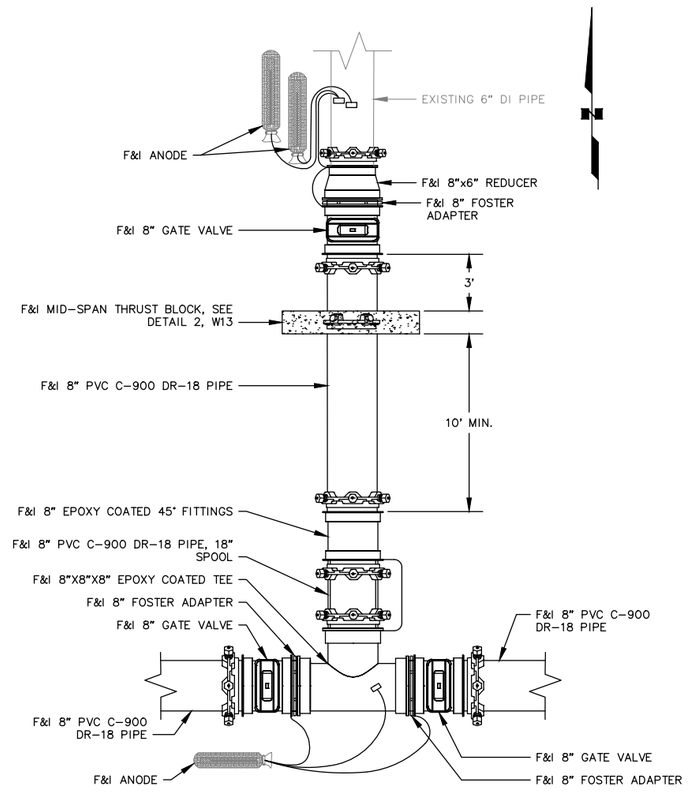
PLOT DATE:8/25/2023 4:01 PM
PLOT SCALE:
ACAD FILE: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Details.dwg



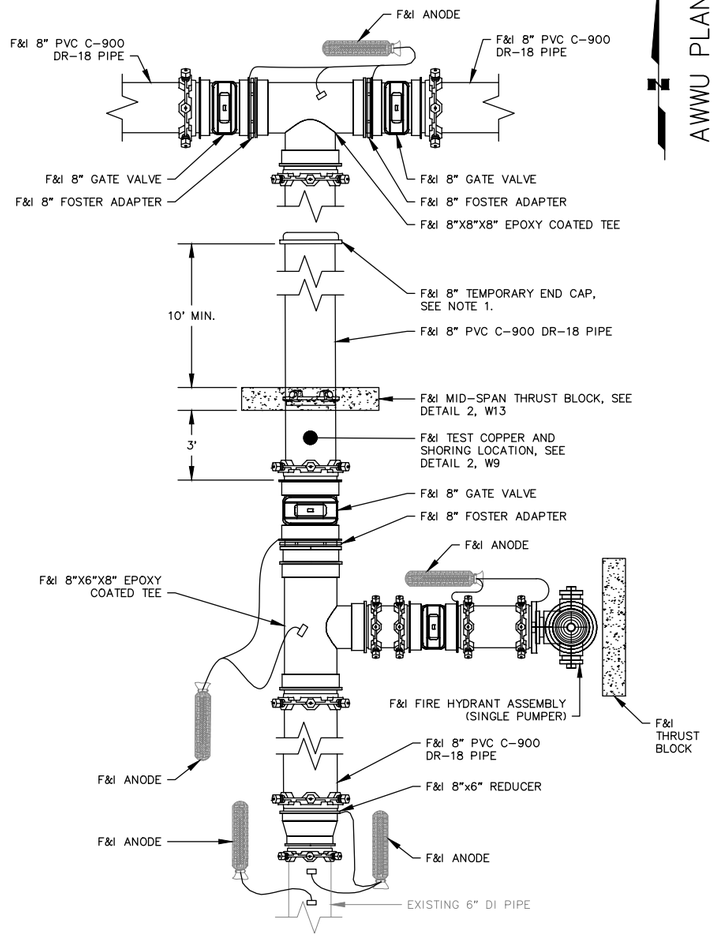
1 W11 LAKE OTIS PARKWAY WATER TIE-IN SCHEMATIC
STA 500+00.00
N.T.S.



2 W11 LAUREL STREET WATER TIE-IN SCHEMATIC
STA 507+00.61
N.T.S.



3 W11 HICKORY PLACE WATER TIE-IN SCHEMATIC
STA 508+65.02
N.T.S.



NOTES:

1. END CAP ADDED AS PART OF TEMPORARY WATER SERVICE. SEE TEMPORARY WATER SHEETS FOR DETAILS AND SEQUENCING.

4 W11 DEER PARK APARTMENT HOMES WATER TIE-IN SCHEMATIC
STA 508+89.33
N.T.S.

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---
PLAN CHECK					

REV	DATE	DESCRIPTION	BY
REVISIONS			

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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   BY: _____ TITLE: _____
   DATE: _____
2. DATA TRANSFERRED BY: _____
   COMPANY: _____
   DATE: _____
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
   DATA TRANSFER CHECKED BY: _____
   COMPANY: _____
   BY: _____ TITLE: _____
   DATE: _____

CRW ENGINEERING GROUP, LLC
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CONSULTANT | SEAL

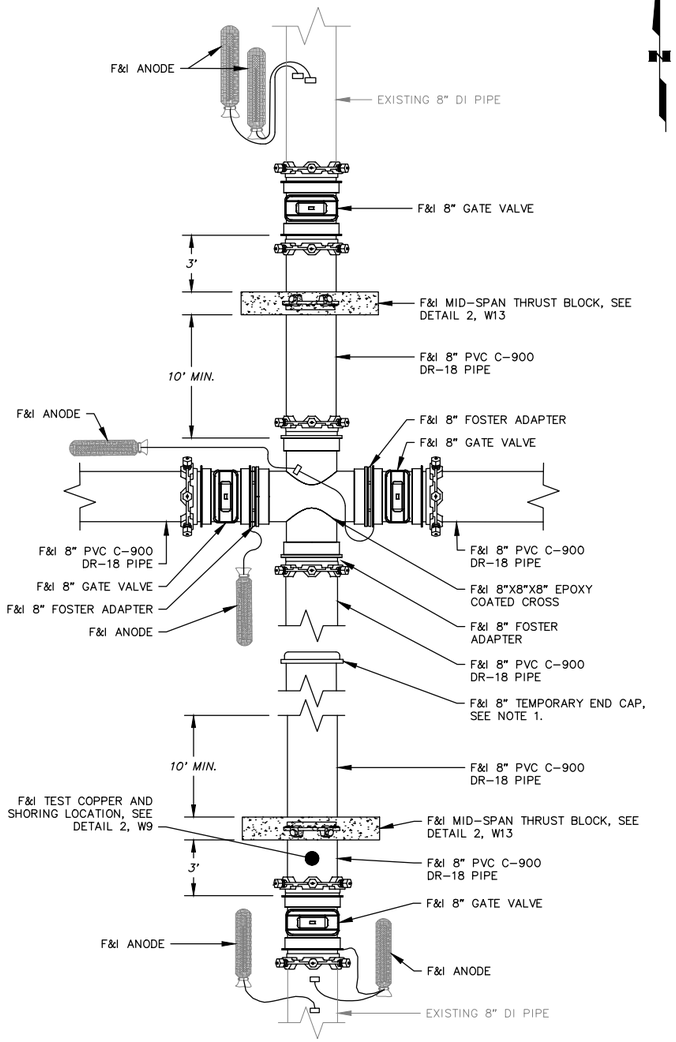
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

SCHEMATIC DETAILS

HORZ SCALE: N/A VERT SCALE: N/A | DATE: AUG 2023 | GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W11 of W19

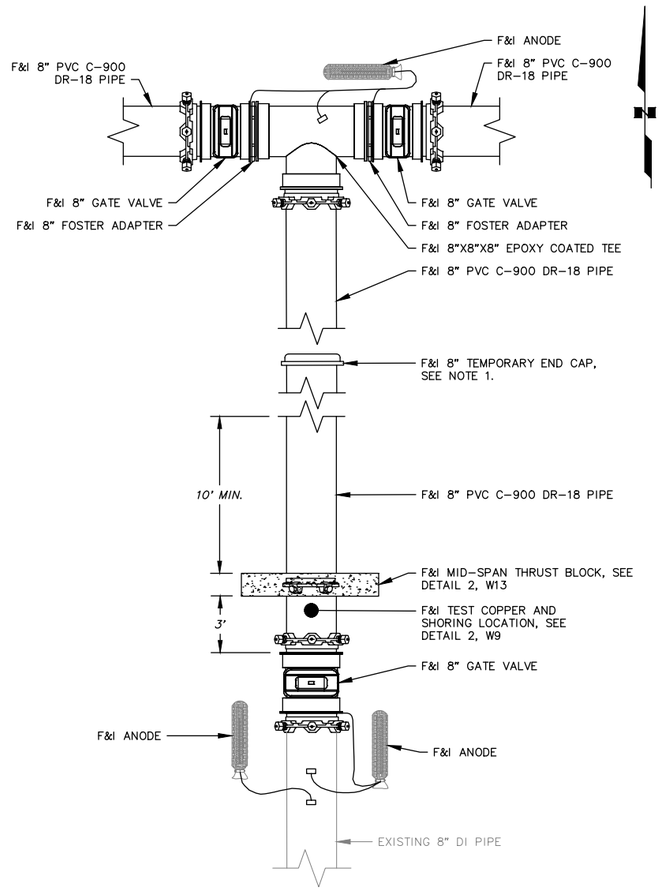
PLOT DATE:8/25/2023 4:01 PM
PLOT SCALE:
ACAD FILE: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Details.dwg



NOTES:

1. END CAP ADDED AS PART OF TEMPORARY WATER SERVICE. SEE TEMPORARY WATER SHEETS FOR DETAILS AND SEQUENCING.

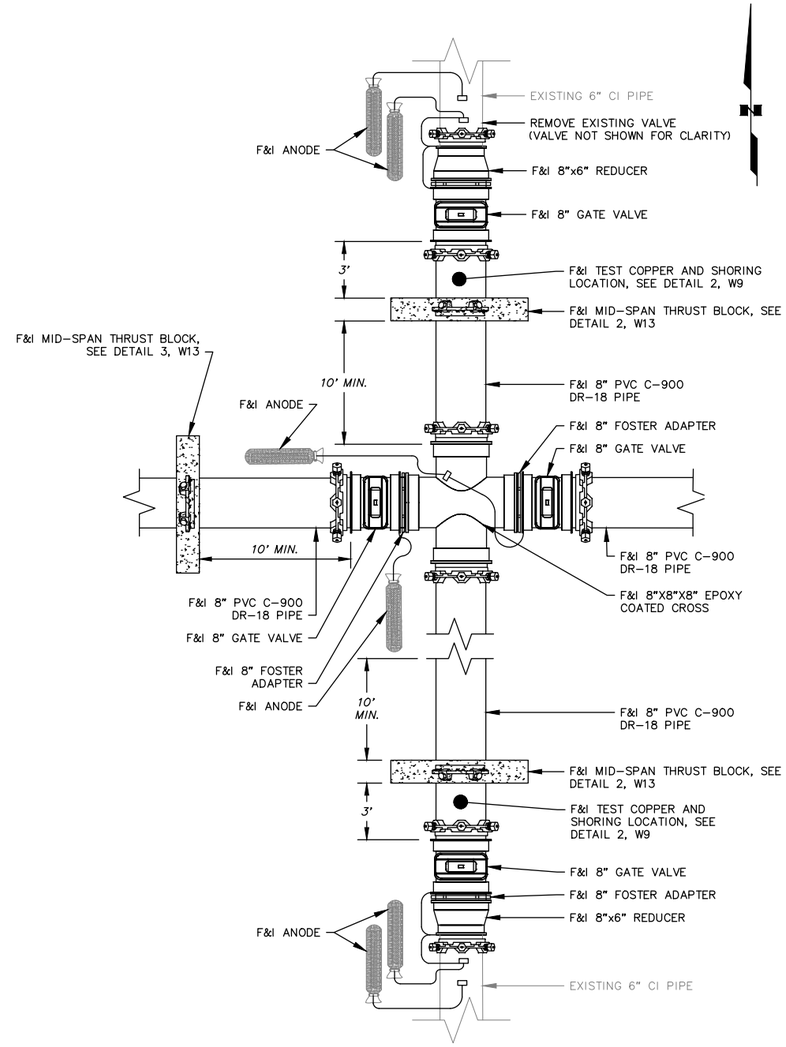
1 / W12 FOLKER STREET WATER TIE-IN SCHEMATIC
STA 513+62.17
N.T.S.



NOTES:

1. END CAP ADDED AS PART OF TEMPORARY WATER SERVICE. SEE TEMPORARY WATER SHEETS FOR DETAILS AND SEQUENCING.

2 / W12 ROSON COURT WATER TIE-IN SCHEMATIC
STA 516+90.22
N.T.S.



3 / W12 WRIGHT STREET WATER TIE-IN SCHEMATIC
STA 520+24.92
N.T.S.

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" — 1"

IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

FULL SIZE SCALE
HORZ SCALE: N/A
VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

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   BY: _____ TITLE: _____
   DATE: _____
2. DATA TRANSFERRED BY: _____
   COMPANY: _____
   DATE: _____
3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.
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   COMPANY: _____
   BY: _____ TITLE: _____
   DATE: _____

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CONSULTANT

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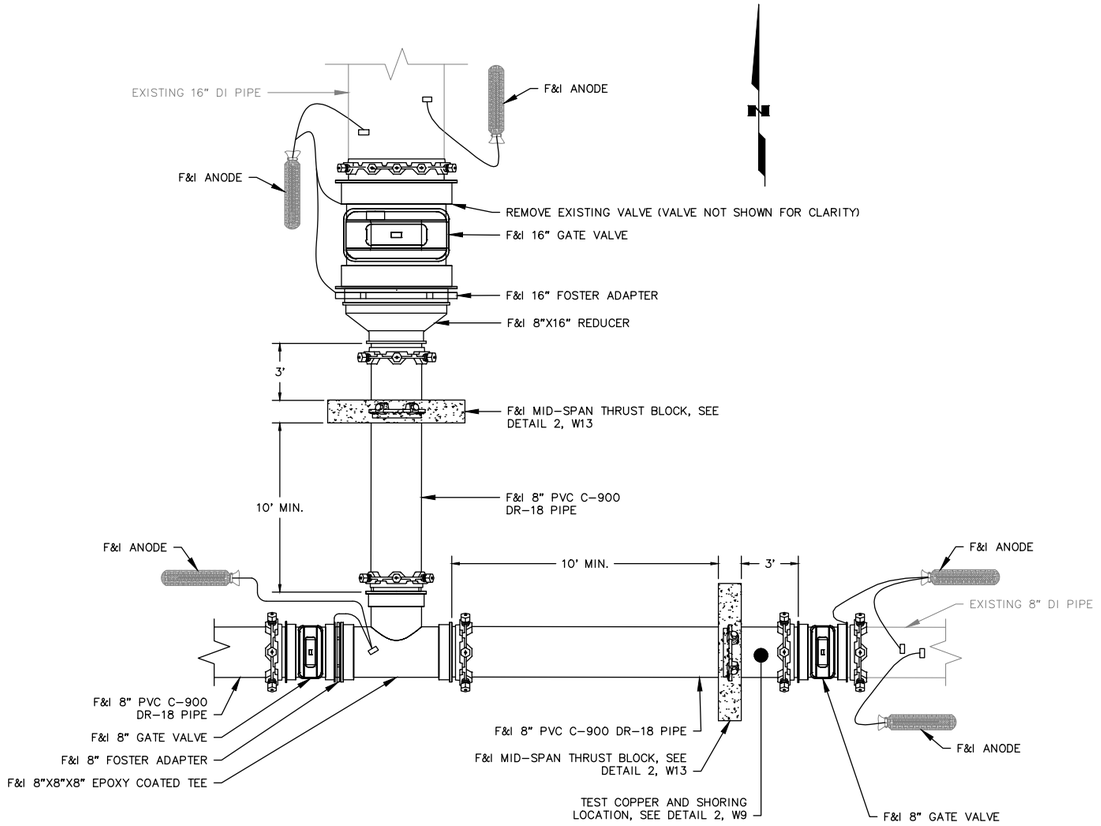
WATER & WASTEWATER UTILITY

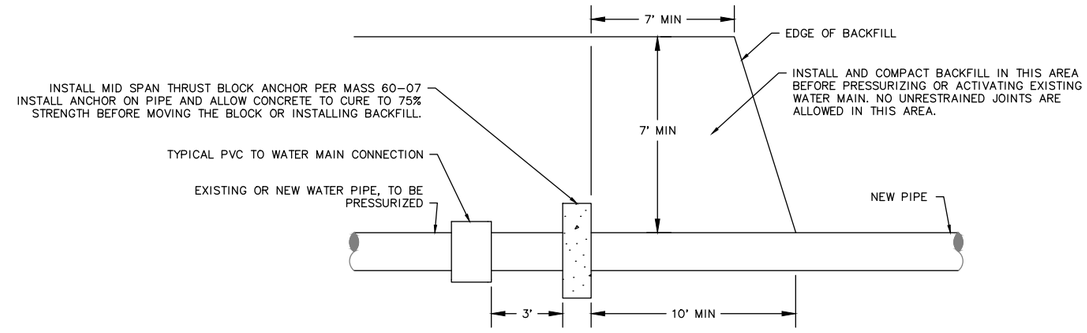
42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

SCHEMATIC DETAILS

HORZ SCALE: N/A
VERT SCALE: N/A
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W12 of W19



1 / W13 PIPER STREET WATER TIE-IN SCHEMATIC
STA 526+99.65
N.T.S.



NOTES

1. VALVE LOCATION VARIES, NOT SHOWN.

2 / W13 MIDSPAN THRUST BLOCK ELEVATION
N.T.S.

PLOT DATE:8/25/2023 4:01 PM
PLOT SCALE:
ACAD FILE: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Details.dwg

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DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---
PLAN CHECK					

REV	DATE	DESCRIPTION	BY
REVISIONS			

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   DATE: _____
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   DATE: _____

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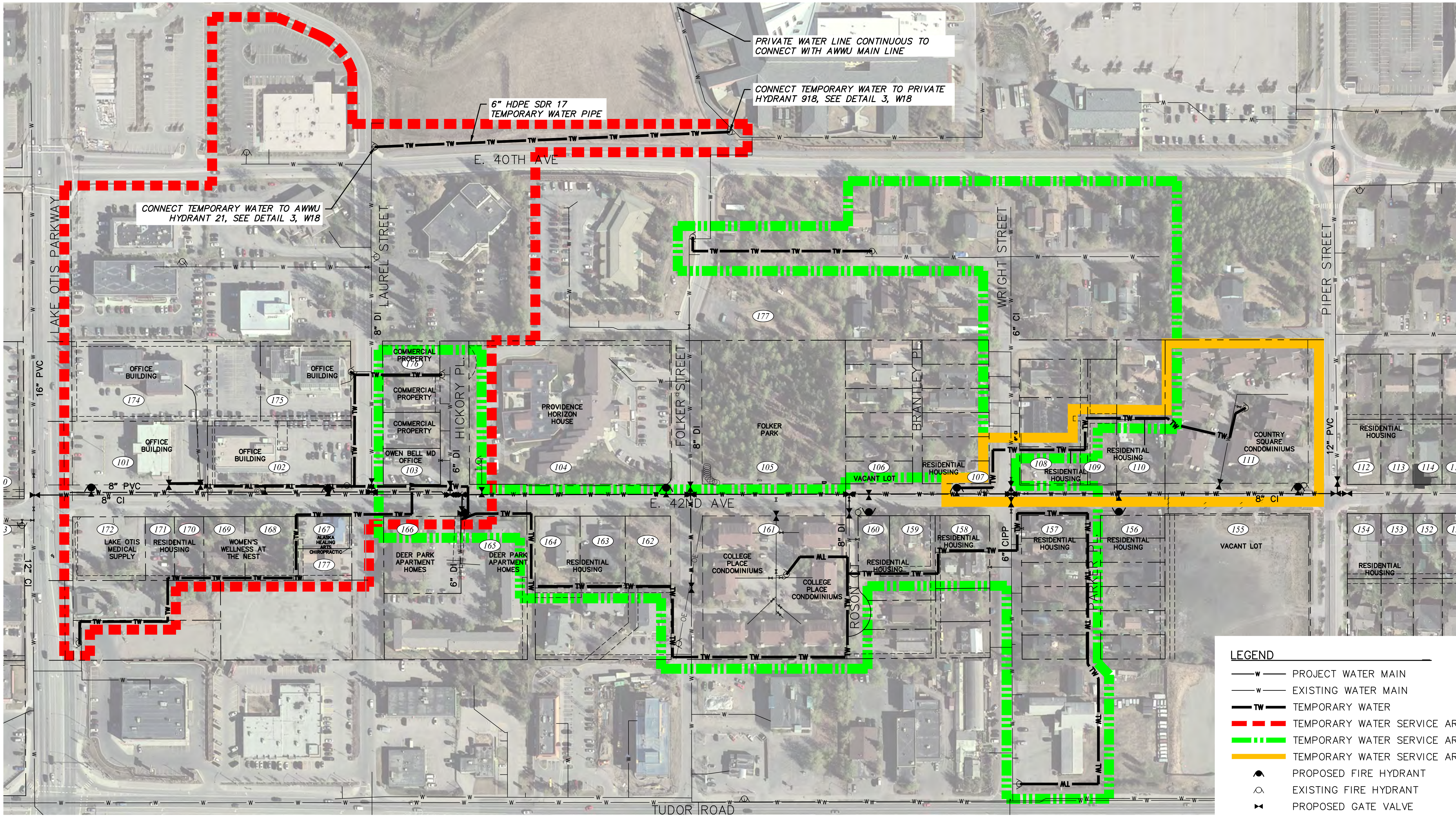
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

SCHEMATIC DETAILS

HORZ SCALE: N/A VERT SCALE: N/A | DATE: AUG 2023 | GRID: SW1733-35 | PROJ. ID.: WW00058 | SHEET W13 of W19

AWWU PLAN SET NO. 11044



LEGEND

- PROJECT WATER MAIN
- EXISTING WATER MAIN
- TEMPORARY WATER
- TEMPORARY WATER SERVICE AREA (PHASE 1)
- TEMPORARY WATER SERVICE AREA (PHASE 2)
- TEMPORARY WATER SERVICE AREA (PHASE 3)
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE

0 100' 200'
SCALE IN FEET

NOTES:

1. CUSTOMER SERVICE SHALL BE NOTIFIED WHEN HOOKING UP A COMMERCIAL BUILDING WITH A METER VIA A HOSE BIB.
2. NEW WATER LINE BETWEEN STA. 500+00 AND STA. 507+00 SHALL BE SUBSTANTIALLY COMPLETED PRIOR TO MOVING ON TO PHASE 2 OF THE TEMPORARY WATER.

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

FULL SIZE SCALE
HORZ SCALE: N/A
VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

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COMPANY: ______
BY: ______ TITLE: ______
DATE: ______

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CONSULTANT

STATE OF ALASKA 49 TH Micah K. Schoming CE-10568 REGISTERED PROFESSIONAL ENGINEER
SEAL

ANCHORAGE WATER & WASTEWATER UTILITY AWWU MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE - PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

TEMPORARY WATER SERVICE
OVERALL PHASING MAP

HORZ SCALE: **1:100**
VERT SCALE: **N/A**
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W14 of W19

PLOT DATE: 8/25/2023 4:02 PM
PLOT SCALE:
ACAD FILE: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Temp Water.dwg

PLOT DATE: 8/25/2023 4:02 PM
PLOT SCALE:
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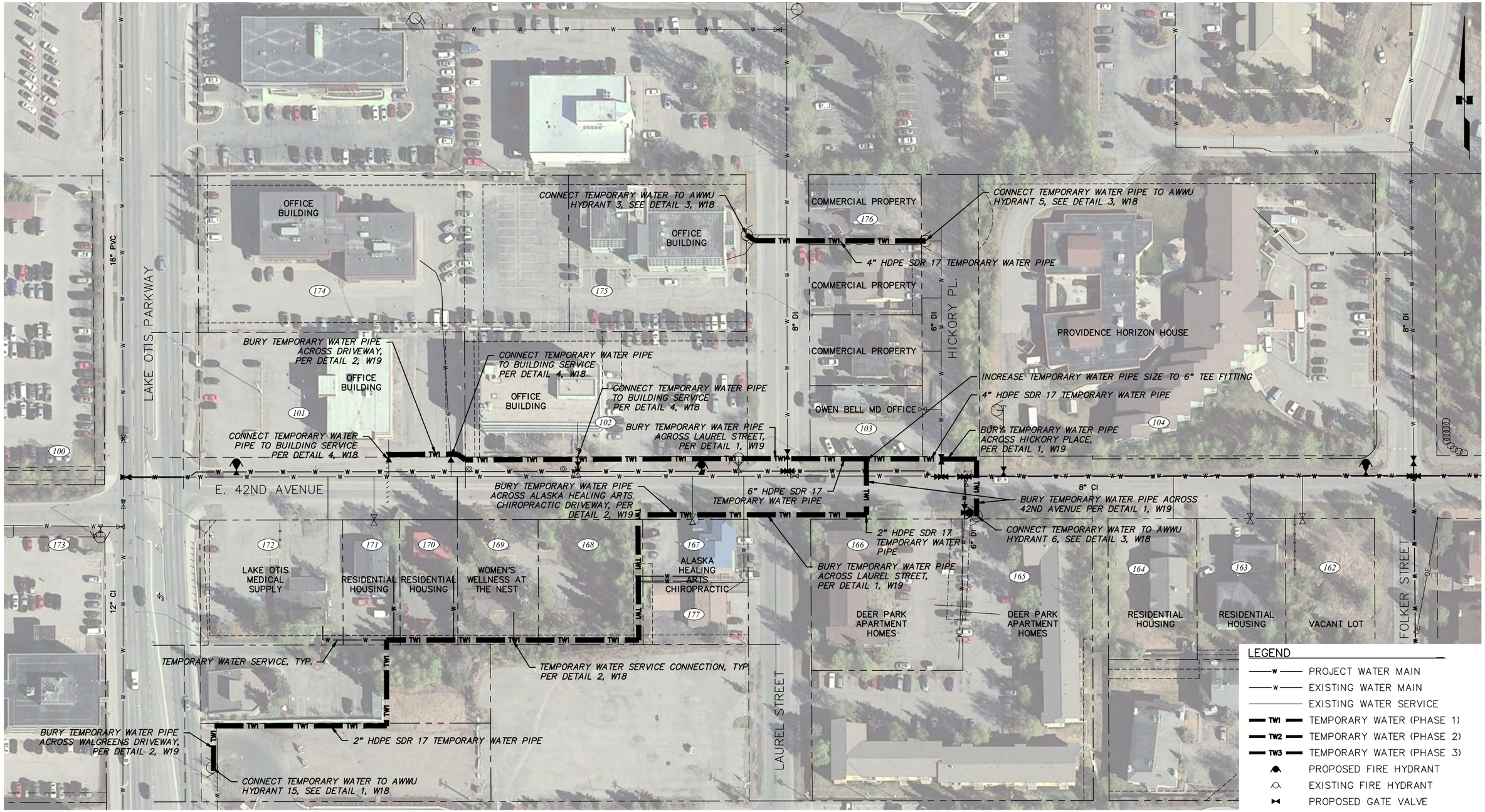

LEGEND

- PROJECT WATER MAIN
- EXISTING WATER MAIN
- EXISTING WATER SERVICE
- TW1 TEMPORARY WATER (PHASE 1)
- TW2 TEMPORARY WATER (PHASE 2)
- TW3 TEMPORARY WATER (PHASE 3)
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE

NOTES:

1. CUSTOMER SERVICE SHALL BE NOTIFIED WHEN HOOKING UP A COMMERCIAL BUILDING WITH A METER VIA A HOSE BIB.
2. NEW WATER LINE BETWEEN STA. 500+00 AND STA. 507+00 SHALL BE SUBSTANTIALLY COMPLETED PRIOR TO MOVING ON TO PHASE 2 OF THE TEMPORARY WATER.

0 50' 100'
SCALE IN FEET

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" ■ 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---
PLAN CHECK					

REV	DATE	DESCRIPTION	BY
REVISIONS			

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   DATE: _____
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   COMPANY: _____
   BY: _____ TITLE: _____
   DATE: _____

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WATER & WASTEWATER UTILITY

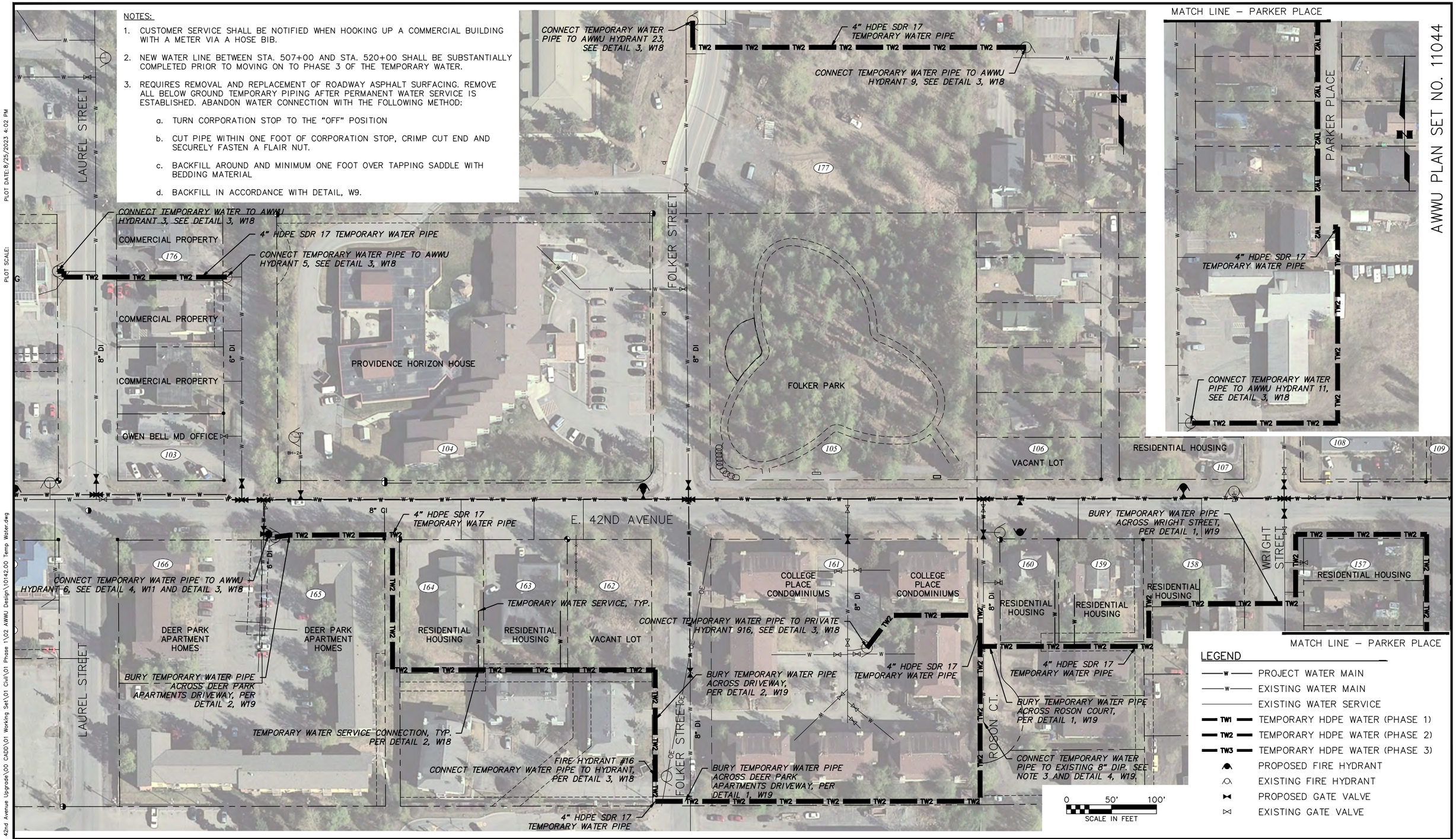
42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

TEMPORARY WATER SERVICE MAP PHASE 1

HORZ SCALE: 1:50	DATE: AUG 2023	GRID: SW1733-35	SHEET W15 of W19
VERT SCALE: N/A	PROJ. ID.: WW00058		

NOTES:

1. CUSTOMER SERVICE SHALL BE NOTIFIED WHEN HOOKING UP A COMMERCIAL BUILDING WITH A METER VIA A HOSE BIB.
2. NEW WATER LINE BETWEEN STA. 507+00 AND STA. 520+00 SHALL BE SUBSTANTIALLY COMPLETED PRIOR TO MOVING ON TO PHASE 3 OF THE TEMPORARY WATER.
3. REQUIRES REMOVAL AND REPLACEMENT OF ROADWAY ASPHALT SURFACING. REMOVE ALL BELOW GROUND TEMPORARY PIPING AFTER PERMANENT WATER SERVICE IS ESTABLISHED. ABANDON WATER CONNECTION WITH THE FOLLOWING METHOD:
   a. TURN CORPORATION STOP TO THE "OFF" POSITION
   b. CUT PIPE WITHIN ONE FOOT OF CORPORATION STOP, CRIMP CUT END AND SECURELY FASTEN A FLAIR NUT.
   c. BACKFILL AROUND AND MINIMUM ONE FOOT OVER TAPPING SADDLE WITH BEDDING MATERIAL
   d. BACKFILL IN ACCORDANCE WITH DETAIL, W9.



LEGEND

- PROJECT WATER MAIN
- EXISTING WATER MAIN
- EXISTING WATER SERVICE
- TW1 TEMPORARY HDPE WATER (PHASE 1)
- TW2 TEMPORARY HDPE WATER (PHASE 2)
- TW3 TEMPORARY HDPE WATER (PHASE 3)
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" ——— 1"

IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

FULL SIZE SCALE
HORZ SCALE: N/A
VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---		TELEPHONE	---	
TOPOGRAPHY	---		ELECTRIC	---	
PROFILE	---		CABLE TV	---	
SANITARY SEWER	---		TRAFFIC SIGNAL	---	
STORM SEWER	---		DESIGN	---	
WATER	---		QUANTITIES	---	
GAS	---		MUN. FINAL CHECK	---	

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

RECORD DRAWING Note: To be filled out on original drawings upon project completion.

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   DATA TRANSFER CHECKED BY: _____
   COMPANY: _____
   BY: _____ TITLE: _____
   DATE: _____

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PHONE: (907) 562-3252
#AECL882-AK
CONSULTANT

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Micah K. Schoming
CE-10568
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SEAL

ANCHORAGE WATER & WASTEWATER UTILITY
AWWU
MUNICIPALITY OF ANCHORAGE

MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

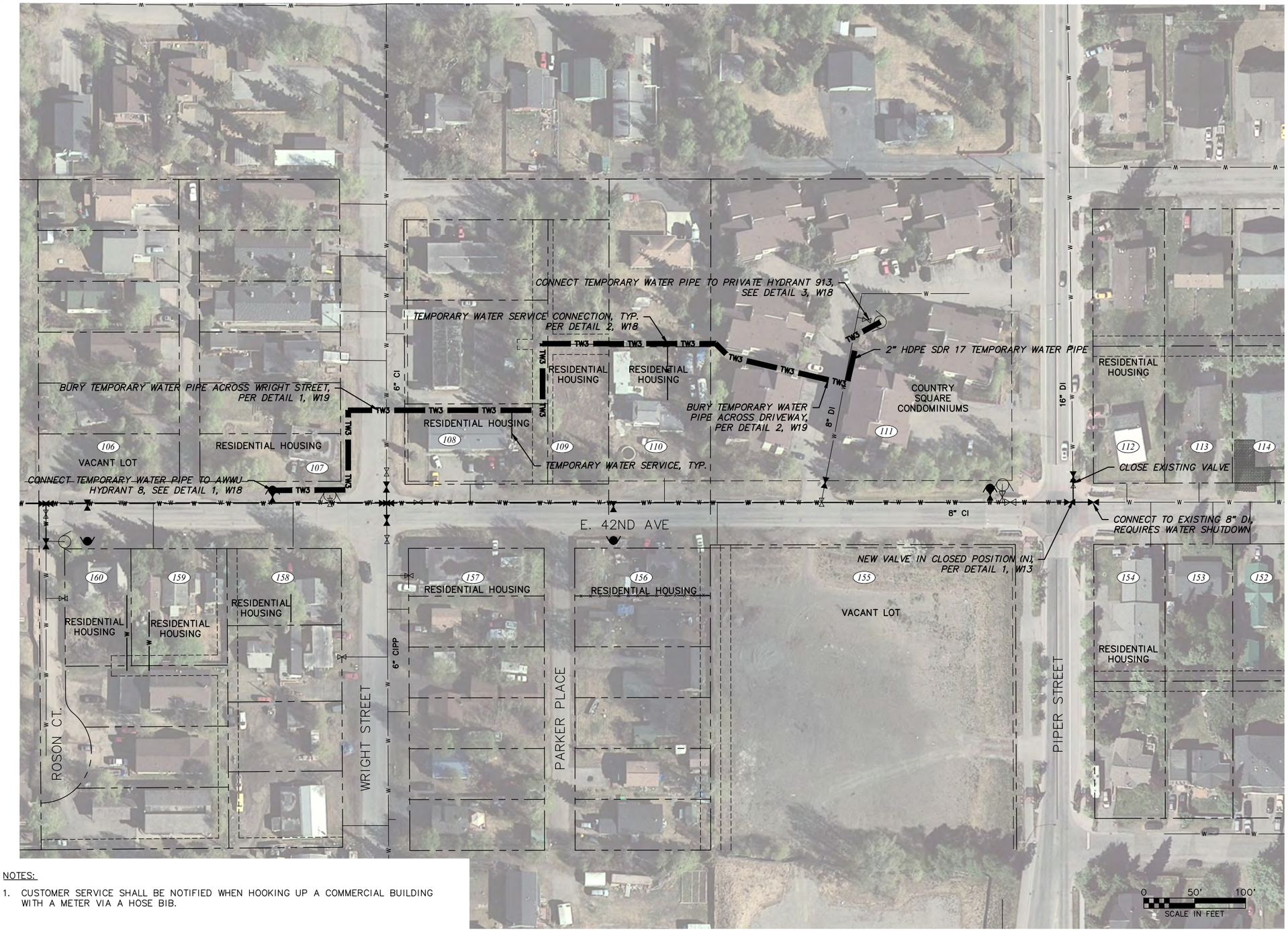
42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

TEMPORARY WATER SERVICE MAP PHASE 2

HORZ SCALE: 1:50
VERT SCALE: N/A
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W16 of W19

PLOT DATE: 8/25/2023 4:02 PM
PLOT SCALE: G
ACAD FILE: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Temp Water.dwg

AWWU PLAN SET NO. 11044



NOTES:

1. CUSTOMER SERVICE SHALL BE NOTIFIED WHEN HOOKING UP A COMMERCIAL BUILDING WITH A METER VIA A HOSE BIB.

LEGEND

- PROJECT WATER MAIN
- EXISTING WATER MAIN
- EXISTING WATER SERVICE
- TW1 TEMPORARY HDPE WATER (PHASE 1)
- TW2 TEMPORARY HDPE WATER (PHASE 2)
- TW3 TEMPORARY HDPE WATER (PHASE 3)
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" ——— 1"
IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.
FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---
PLAN CHECK					

REV	DATE	DESCRIPTION	BY
REVISIONS			

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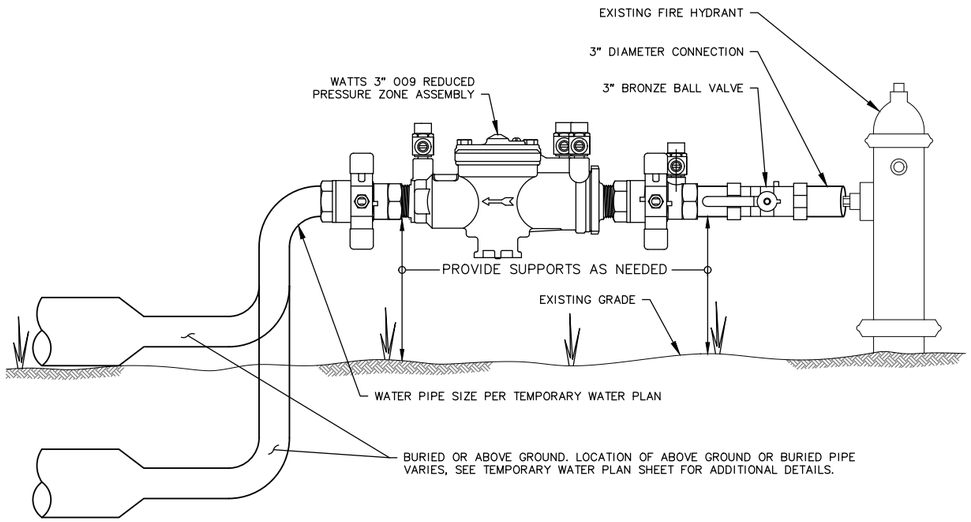
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

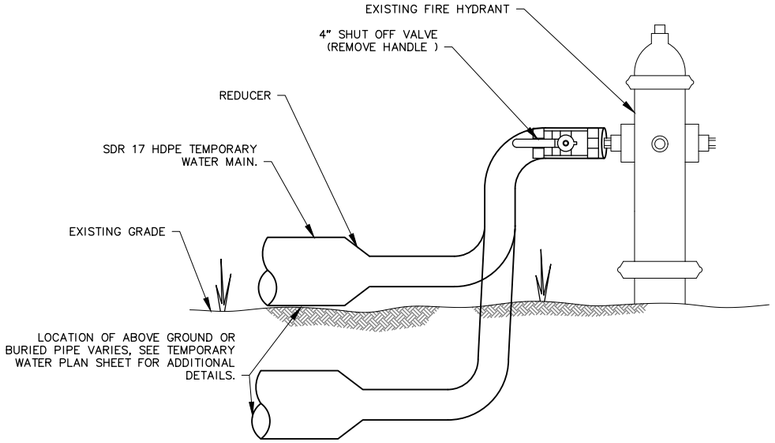
TEMPORARY WATER SERVICE MAP PHASE 3

HORZ SCALE: 1:50 VERT SCALE: N/A | DATE: AUG 2023 | GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W17 of W19

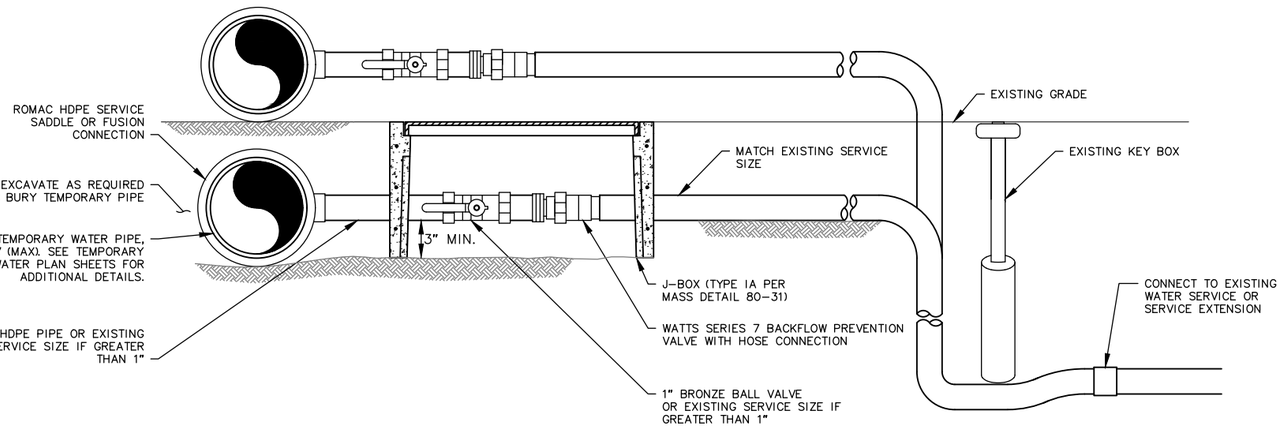
PLOT DATE:8/25/2023 4:03 PM
PLOT SCALE:
ACAD FILE: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Details - Temp Water.dwg



1 W18 — 2-INCH TEMPORARY WATER SYSTEM HYDRANT CONNECTION
N.T.S.

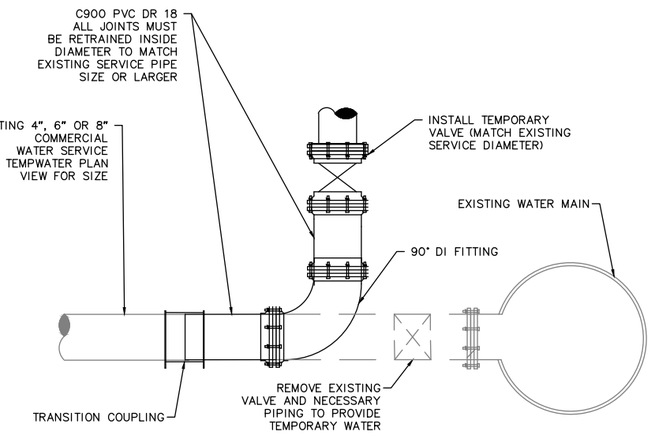


3 W18 — LARGE SERVICE TEMPORARY WATER SYSTEM HYDRANT CONNECTION
N.T.S.



TEMPORARY WATER NOTES:
1. COORDINATE KEY BOX TURN OFF WITH THE ENGINEER. ISOLATE BUILDING FROM SERVICE LINE WITH SHUTOFF IN THE BUILDING.
2. PROVIDE 6-INCHES MINIMUM COVER OVER TEMPORARY WATER MAIN AT ALL DRIVEWAY AND ROAD CROSSINGS. UPON CONNECTION OF ALL HOMES TO THE NEW WATER MAIN, THE TEMPORARY WATER SERVICE SHALL BE REMOVED, THE ROADWAY OR DRIVEWAY REPAIRED, AND REPAVED IN ACCORDANCE WITH CITY OF HOMER STANDARDS.
3. SEE SPECIFICATIONS FOR TEMPORARY WATER REQUIREMENTS.
4. TEMPORARY WATER TO BE CONNECTED BEFORE EXISTING KEY BOX WITHIN THE R.O.W.

2 W18 — TYP. TEMPORARY WATER SERVICE CONNECTIONS, ABOVE GRADE OR BURIED METHOD
N.T.S.



4 W18 — TEMPORARY WATER SYSTEM COMMERCIAL SERVICE CONNECTION
N.T.S.

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" ——— 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY
BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

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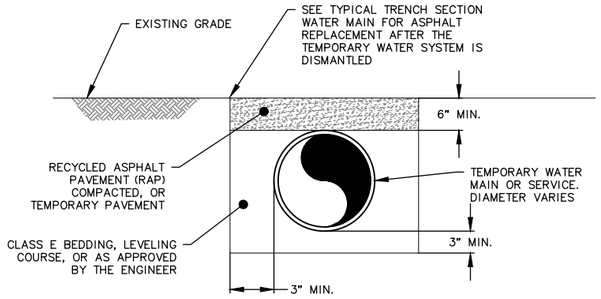
WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

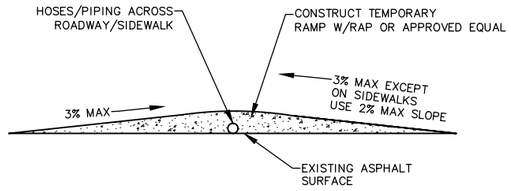
TEMPORARY WATER DETAILS

HORZ SCALE: 1:50
VERT SCALE: N/A
DATE: AUG 2023
GRID: SW1733-35
PROJ. ID.: WW00058
SHEET W18 of W19



1 / W19 TYPICAL TEMPORARY WATER BURIAL

N.T.S.

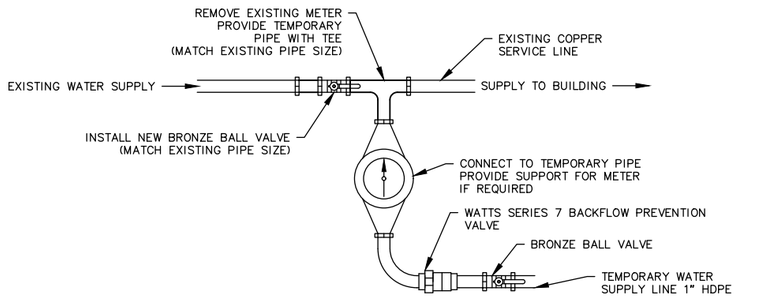


NOTES

1. FURNISHING AND INSTALLING RAP AND REMOVAL OF RAP IS INCIDENTAL TO TEMPORARY WATER.

2 / W19 TYPICAL TEMPORARY RAMP DETAIL

N.T.S.

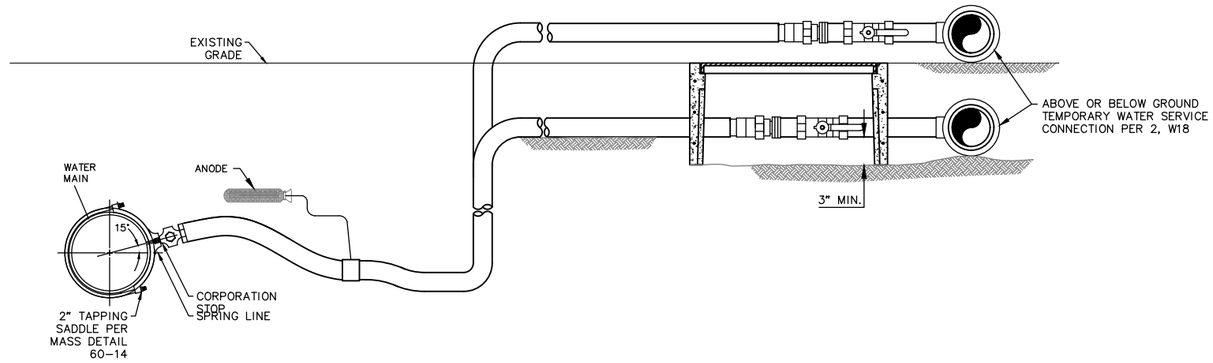


METER CONNECTION NOTES:

1. METER IS TO BE REINSTALLED TO ORIGINAL LOCATION AND MADE FUNCTIONING AFTER TEMPORARY WATER IS TURNED OFF.

3 / W19 TYP. TEMPORARY WATER METER CONNECTION

N.T.S.



4 / W19 ROSON CT. TEMPORARY WATER SERVICE CONNECTION, ABOVE GRADE OR BURIED METHOD

N.T.S.

VERIFY SCALE THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" ■ 1" IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY. FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A

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BASE	---	---	TELEPHONE	---	---
TOPOGRAPHY	---	---	ELECTRIC	---	---
PROFILE	---	---	CABLE TV	---	---
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---
STORM SEWER	---	---	DESIGN	---	---
WATER	---	---	QUANTITIES	---	---
GAS	---	---	MUN. FINAL CHECK	---	---

PLAN CHECK

REV	DATE	DESCRIPTION	BY

REVISIONS

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WATER & WASTEWATER UTILITY

42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

TEMPORARY WATER DETAILS

HORZ SCALE: 1:50 VERT SCALE: N/A | DATE: AUG 2023 | GRID: SW1733-35 | PROJ. ID.: WW00058 | SHEET W19 of W19

ACAD FILE: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Details - Temp Water.dwg
PLOT SCALE:
PLOT DATE: 8/25/2023 4:03 PM

ILLUMINATION NOTES:
1. SEE NOTES ON SHEET 13.

E. 42ND AVENUE

LAKE OTIS PARKWAY

L1 — 2 1-3C6 (LTG A1)

L2 — 2 1-3C6 (LTG A1)

L3 — 2 1-3C6 (LTG A1)

MATCH LINE - STA 105+00

L5 — 2-3C6 (LTG A1) 2, SPARE 2

REMOVE MOA OWNED LUMINAIRE, ASSOCIATED JUNCTION BOX AND CONDUIT RISERS AND SWEEPS. REMOVE CONDUCTORS TO LUMINAIRE TO THE NORTH. REMOVE CONDUIT THAT INTERFERES WITH NEW WORK, OTHERWISE ABANDON CONDUIT IN PLACE.

EXISTING CEA LUMINAIRE TO BE REMOVED BY OTHERS.

LAUREL STREET

HICKORY PLACE

E. 42ND AVENUE

L4 — 2 1-3C6 (LTG A1)

J4A

L6 — 2 1-3C6 (LTG A1), 2 SPARE

L7 — 2 1-3C6 (LTG A1)

L8 — 2 1-3C6 (LTG A1)

MATCH LINE - STA 111+00

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

GRAPHIC SCALE 40' 20' 0' 20' 40'

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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Tyler R. Keene
EE-14401
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SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

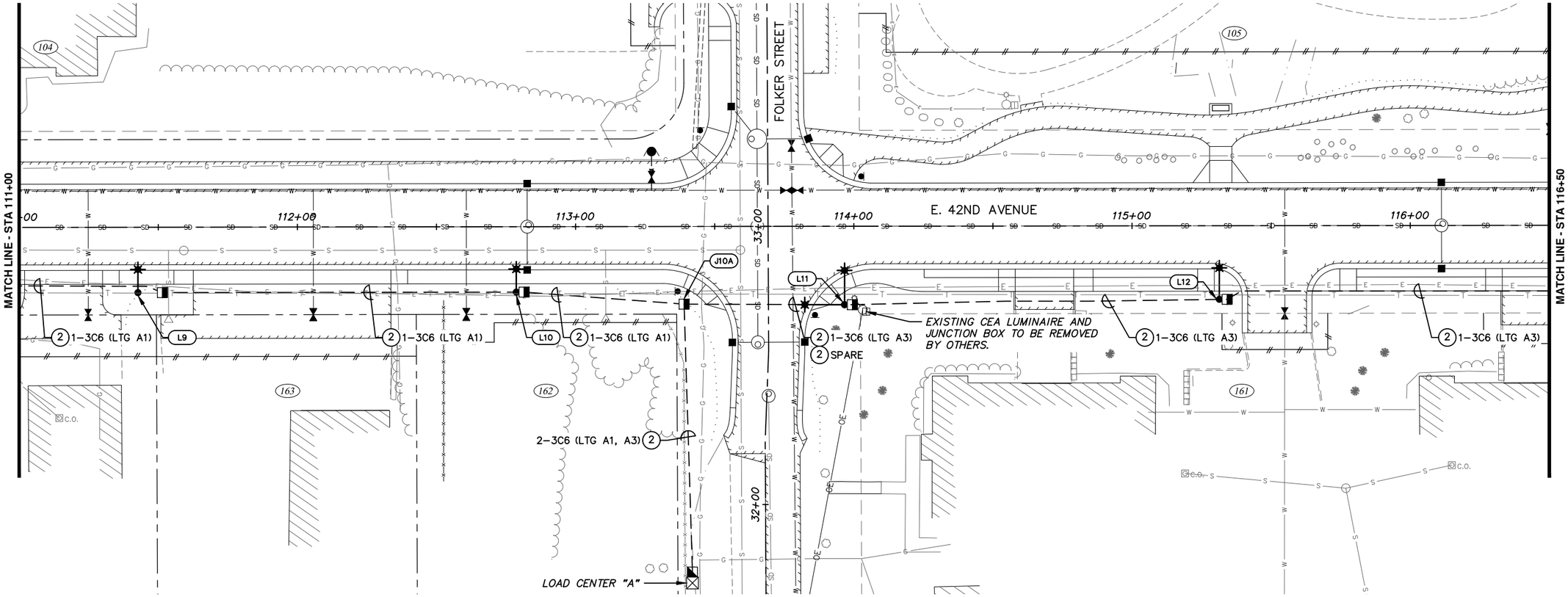
18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED C
LAKE OTIS PARKWAY TO PIPER STREET

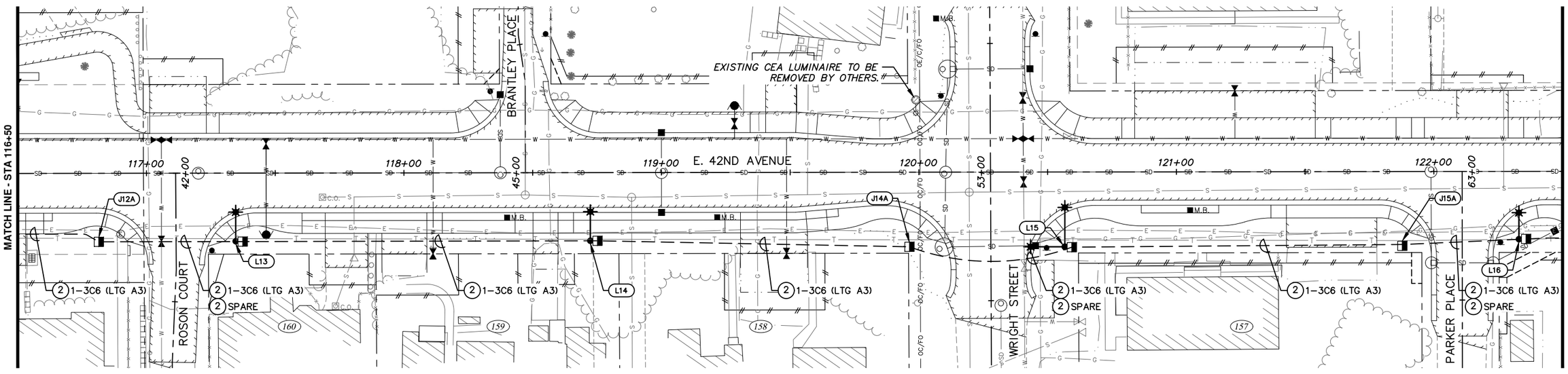
ILLUMINATION PLAN

E. 42ND AVENUE
BOP TO STA 111+00

SCALE HOR. 1"=20' VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET 11 of 16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\03 Electrical\Phase 1\10142.00 Illumination Plan – Phase 1.dwg





ILLUMINATION NOTES:
1. SEE NOTES ON SHEET 13.

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BY: _____

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TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

GRAPHIC SCALE 40' 20' 0' 20' 40'

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

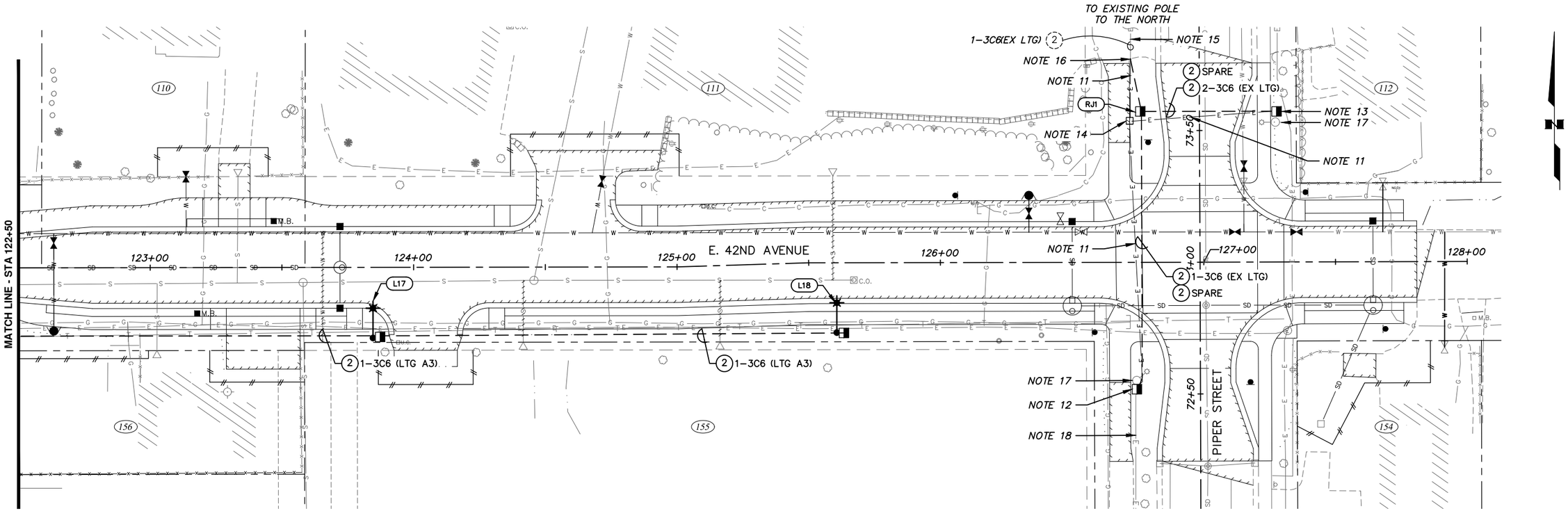
18-06 SCHED C
42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

ILLUMINATION PLAN

E. 42ND AVENUE
STA 111+00 TO STA 122+50

SCALE HOR. 1"=20' VER. N/A
GRID SW1733, SW1734, SW1735
DATE AUGUST 2023 STATUS 95%
SHEET 12 of 16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\03 Electrical\Phase 1\10142.00 Illumination Plan – Phase 1.dwg



LEGEND

EXISTING	PROPOSED	
— — —	— — —	CONDUIT/CONDUCTOR BELOW GRADE
○☼	●✹	LUMINAIRE
◫	◧	TYPE 1A JUNCTION BOX
▨	◪	TYPE 2 JUNCTION BOX
▨	⊠	TYPE 1A LOAD CENTER

2 1-3C6(LTG A1)
CONDUIT SIZE
OF CABLES
OF CONDUCTORS PER CABLE
CIRCUIT #
TYPE OF CIRCUIT
SIZE OF CONDUCTORS
NEW CONDUIT/CONDUCTOR TAG

2 1-3C6(LTG R4)
CONDUIT SIZE
OF CABLES
OF CONDUCTORS PER CABLE
CIRCUIT #
TYPE OF CIRCUIT
SIZE OF CONDUCTORS
EXISTING CONDUIT/ NEW CONDUCTOR TAG

ILLUMINATION NOTES:

1. PROVIDE HOT DIP GALVANIZED STEEL POLES WITH MAST ARMS PER MOA STANDARD DETAILS 80-19 AND 80-20, RESPECTIVELY.
2. ALL LUMINAIRE POLE FOUNDATIONS SHALL BE DRIVEN PILE UNLESS OTHERWISE NOTED ON THE DRAWINGS. PILE EMBEDMENT DEPTH SHALL BE 15' MINIMUM. LUMINAIRE POLE FOUNDATION SHALL BE LOCATED A MINIMUM OF 3 FEET FROM BACK OF SIDEWALK/PATHWAY OR A MINIMUM OF 7 FEET FROM BACK OF CURB OR SHOULDER. 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. THIS WORK SHALL BE INCIDENTAL TO THE SECTION 80.04 PAY ITEM. SEE MASS DETAIL 80-13. CONTRACTOR SHALL STAKE LUMINAIRE POLE LOCATIONS IN THE FIELD FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO INSTALLATION OF PILES.
3. INSTALL THE POLES WITH FIXED BASES PER MOA 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 ROADWAY LUMINAIRE SCHEDULE.
6. PROVIDE RIGID METAL CONDUIT (RMC) WITH A BARE, STRANDED COPPER GROUND FOR ALL RACEWAYS. GROUND TO BE SIZED TO EQUAL THE LARGEST CONDUCTOR SIZE IN THE CONDUIT, MINIMUM #8 AWG.
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, TRAILS, DRIVEWAYS, OR DRAINAGE DITCHES OR ON PRIVATE PROPERTY. 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.
11. DISCONNECT AND REMOVE CONDUCTORS. DEMOLISH CONDUIT RISERS AND CONDUIT THAT INTERFERES WITH NEW WORK AND ABANDON CONDUIT THAT DOES NOT INTERFERE WITH NEW WORK.
12. REMOVE EXISTING JUNCTION BOX AND REPLACE WITH NEW JUNCTION BOX AT SAME LOCATION. PRESERVE RISERS AND CONDUIT TO THE ADJACENT POLE AND EXISTING POLE TO THE SOUTH.
13. REMOVE EXISTING JUNCTION BOX AND REPLACE WITH NEW JUNCTION BOX AT SAME LOCATION. PRESERVE RISERS AND CONDUIT TO THE ADJACENT POLE.
14. REMOVE EXISTING JUNCTION BOX AND REPLACE WITH NEW JUNCTION BOX AT NEW LOCATION (SEE JUNCTION BOX SCHEDULE). REMOVE ALL CONDUIT RISERS.
15. DISCONNECT AND REMOVE EXISTING CONDUCTORS FOR EXISTING POLE TO THE NORTH. PRESERVE CONDUIT THAT DO NOT INTERFERE WITH NEW WORK. INSTALL NEW CONDUCTORS IN EXISTING CONDUIT TO POLE TO THE NORTH (APPROXIMATELY 150' FROM NEW JUNCTION BOX RJ1). CONNECT TO EXISTING FUSED CONNECTOR IN POLE.
16. INTERSECT EXISTING CONDUIT WITH NEW CONDUIT WHERE EXISTING CONDUIT DOES NOT INTERFERE WITH NEW WORK. USE SHUR-LOCK II CONDUIT COUPLER OR APPROVED EQUAL TO CONNECT EXISTING CONDUIT TO NEW CONDUIT.
17. CONNECT NEW CONDUCTORS TO EXISTING FUSED CONNECTOR IN POLE HANDHOLE.
18. PRESERVE CONDUIT AND CONDUCTORS TO EXISTING POLE TO THE SOUTH.

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
CONTRACTOR: _____
BY: _____ TITLE: _____ DATE: _____
2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
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DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC SCALE 40' 20' 0' 20' 40'

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA 49 TH
Tyler R. Keene
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REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 SCHED C
LAKE OTIS PARKWAY TO PIPER STREET

ILLUMINATION PLAN

E. 42ND AVENUE
STA 122+50 TO EOP

SCALE HOR. 1"=20' VER. N/A
GRID SW1733, SW1734, SW1735
DATE AUGUST 2023 STATUS 95%
SHEET 13 of 16

File: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\03 Electrical\Phase 1\10142.00 Illumination Plan – Phase 1.dwg

LIGHT LEVELS TABLE

LOCATION	*MOA REQUIRED MIN. AVERAGE ILLUMINANCE (FC)*	AVERAGE DESIGN ILLUMINANCE (FC)	*MOA REQUIRED MAXIMUM UNIFORMITY RATIO*	DESIGN UNIFORMITY RATIO	*MOA REQUIRED MAX. VEILING LUMINANCE RATIO*	DESIGN VEILING LUMINANCE RATIO
42ND AVENUE	*0.7*	1.0	*6.0:1*	3.3:1	*0.3:1*	0.3:1
42ND AVENUE/LAUREL STREET INTX	*1.4*	1.4	*6.0:1*	3.6:1	–	–
42ND AVENUE/HICKORY PLACE INTX	*1.4*	1.6	*6.0:1*	3.2:1	–	–
42ND AVENUE/FOLKER STREET INTX	*1.4*	1.5	*6.0:1*	3.7:1	–	–
42ND AVENUE/ROSON COURT INTX	*1.4*	1.4	*6.0:1*	3.5:1	–	–
42ND AVENUE/BRANTLEY PLACE INTX	*1.4*	1.4	*6.0:1*	2.9:1	–	–
42ND AVENUE/WRIGHT STREET INTX	*1.4*	1.5	*6.0:1*	3.7:1	–	–
42ND AVENUE/PARKER PLACE INTX	*1.4*	1.5	*6.0:1*	5.0:1	–	–
SIDEWALKS/PATHWAYS	*0.5*	0.7	*4.0:1*	3.3:1	–	–

NOTES:

1. MOA REQUIREMENTS ARE FROM 2007 DCM CHAPTER 5 FOR A LOCAL ROADWAY WITH MEDIUM PEDESTRIAN CONFLICT (MEDIUM DENSITY RESIDENTIAL).
2. ALL INTERSECTIONS TO BE UPGRADED WITH NEW LIGHT ARE CLASSFIED AS LOCAL/LOCAL.
3. LIGHT LOSS FACTOR (LLF) = 0.85.
4. MOUNTING HEIGHTS ARE 30'.
5. GE CURRENT EVOLVE ERL LED STREETLIGHTS WERE USED AS THE BASIS OF DESIGN.

ROADWAY LUMINAIRE SCHEDULE

POLE	STATION	OFFSET	SHAFT LENGTH	MAST ARM LENGTH	LUMENS	DISTRIBUTION	CIRCUIT
L1	101+44.4	27.88 RT	28'	11'	8,000	TYPE 2, MEDIUM	A1
L2	103+36.3	23.50 RT	29'	7'	8,000	TYPE 2, MEDIUM	A1
L3	104+68.3	23.98 RT	29'	7'	8,000	TYPE 2, MEDIUM	A1
L4	105+67.8	21.73 RT	29'	7'	8,000	TYPE 2, MEDIUM	A1
L5	12+56.7**	26.00 LT**	29'	7'	8,000	TYPE 2, MEDIUM	A1
L6	107+41.9	24.09 RT	28'	9'	8,000	TYPE 2, MEDIUM	A1
				15'*	6,000	TYPE 2, MEDIUM	
L7	108+81.8	23.48 RT	29'	7'	12,000	TYPE 2, MEDIUM	A1
L8	110+26.6	23.50 RT	29'	7'	8,000	TYPE 2, MEDIUM	A1
L9	111+48.6	23.50 RT	29'	7'	8,000	TYPE 2, MEDIUM	A1
L10	112+78.6	23.50 RT	29'	7'	8,000	TYPE 2, MEDIUM	A1
L11	113+96.6	28.17 RT	28'	11'	10,000	TYPE 2, MEDIUM	A3
				13'*	6,000	TYPE 2, MEDIUM	
L12	115+31.3	26.43 RT	28'	10'	12,000	TYPE 2, MEDIUM	A3
L13	117+34.6	26.47 RT	28'	10'	12,000	TYPE 2, MEDIUM	A3
L14	118+72.4	26.48 RT	28'	10'	12,000	TYPE 2, MEDIUM	A3
L15	120+56.6	29.07 RT	27'	14'	10,000	TYPE 2, MEDIUM	A3
				12'**	8,000		
L16	122+33.0	26.36 RT	28'	10'	12,000	TYPE 2, MEDIUM	A3
L17	123+84.6	26.81 RT	28'	10'	10,000	TYPE 2, MEDIUM	A3
L18	125+60.7	26.50 RT	28'	10'	10,000	TYPE 2, MEDIUM	A3

* = WEST MAST ARM

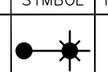
** = REFERENCES LAUREL STREET ALIGNMENT

JUNCTION BOX SCHEDULE

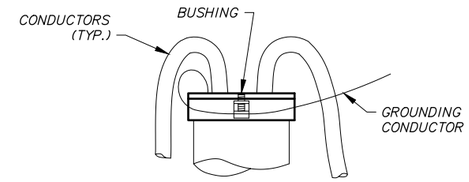
J–BOX	TYPE	CIRCUIT	STATION	OFFSET
J4A	1A	A1	106+68.8	25.20 RT
J10A	1A	A1, A3	113+39.0	27.90 RT
J12A	1A	A3	116+81.5	29.90 RT
J14A	1A	A3	119+96.3	29.00 RT
J15A	1A	A3	121+87.7	28.90 RT
RJ1	1A	EXISTING	126+76.0	57.30 LT

NOTE: ONLY JUNCTION BOXES NOT ASSOCIATED WITH AN LUMINAIRE OR LOAD CENTER ARE SHOWN IN THIS TABLE.

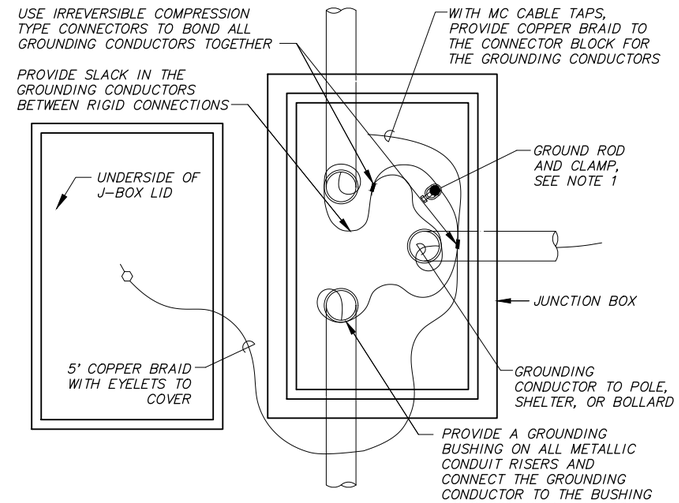
LUMINAIRE DEFINITION

TYPE	SYMBOL	MAKE	MODEL	LAMP	CCT*	DISTRIBUTION	VOLTAGE	COLOR	OPTIONS	MOUNT
ROADWAY		GE	ERL	SEE LUMINAIRE SCHEDULE	4000K	SEE LUMINAIRE SCHEDULE	240	GREY	7–PIN RECEPTACLE WITH SHORTING CAP, BACKLIGHT SHIELD	MAST ARM

*CCT = CORRELATED COLOR TEMPERATURE



DETAIL A



3 JUNCTION BOX GROUNDING DETAIL
NTS

ONLY GROUNDING CONDUCTORS ARE SHOWN FOR CLARITY

JUNCTION BOX GROUNDING NOTES:

1. PROVIDE A 3/4"X10' CU–CLAD STEEL GROUND ROD IN ALL JUNCTION BOXES NOT ASSOCIATED WITH A LOAD CENTER OR A LIGHT POLE. ATTACH GROUND ROD TO THE JUNCTION BOX GROUNDING SYSTEM. THE GROUND ROD SHALL BE INCIDENTAL TO THE JUNCTION BOX PAY ITEM.

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PLAN CHECK

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BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
& 201	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562–3252
#AECL882–AK

CONSULTANT

STATE OF ALASKA 49 TH
Tyler R. Keene
EE-14401
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

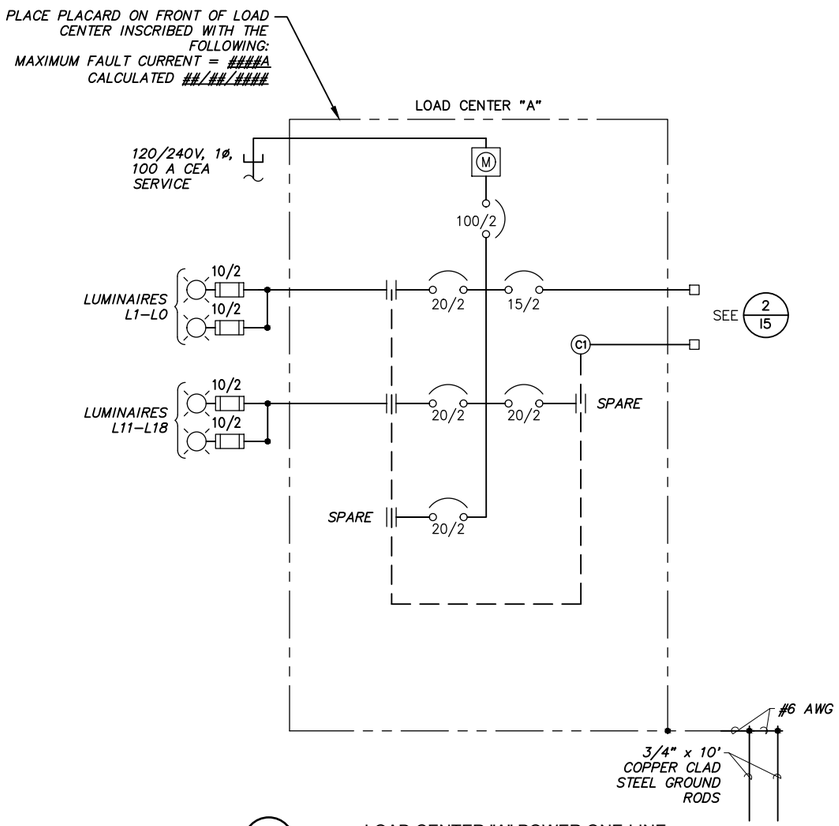
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18–06 42ND AVENUE UPGRADE – PHASE 1 SCHED C
LAKE OTIS PARKWAY TO PIPER STREET

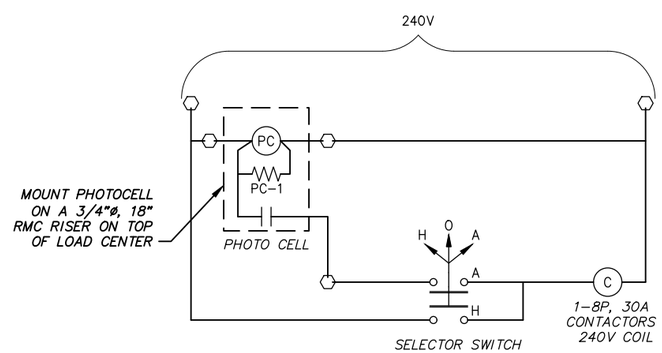
ILLUMINATION SCHEDULES

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET 14 of 16

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\03 Electrical\Phase 1\10142.00 Illumination Schedules – Phase 1.dwg



1 LOAD CENTER "A" POWER ONE-LINE
NTS



2 LOAD CENTER PHOTOELECTRIC CONTROL SCHEMATIC
NTS

LOAD CENTER NO. A — TYPE: 1A

LOCATION: STATION – 31+71.9, OFFSET – 26.4 LT, FOLKER STREET

1–8 POLE, 30 AMP CONTACTORS

MAIN BREAKER A: 2 POLE, 100 AMPS, 240 VOLTS

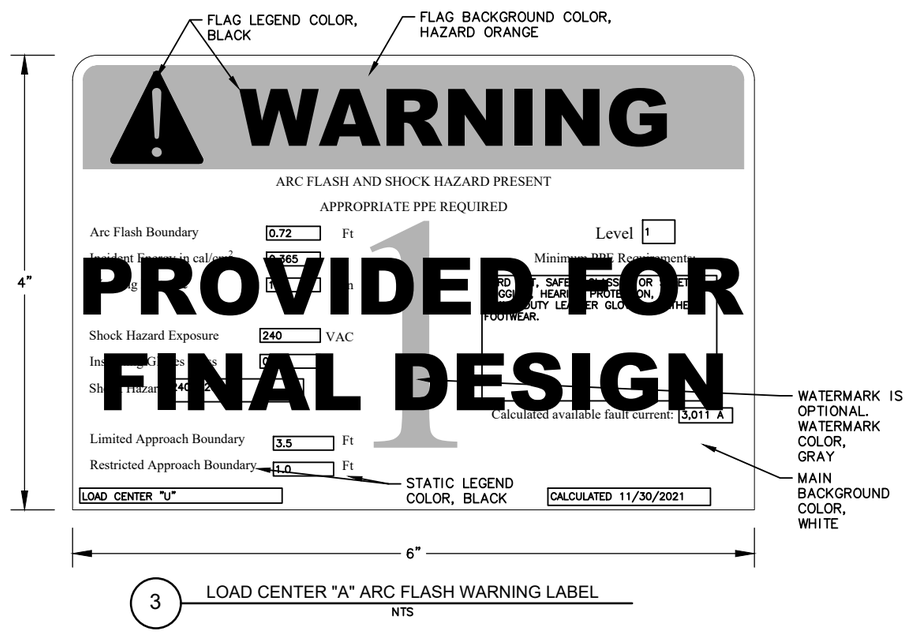
PANEL A — 120/240 VOLTS — SINGLE PHASE — 3 WIRE

100 AMPS MAIN LUGS, — 10,000 AMPS INTERRUPT CAPACITY

CKT.	CIRCUIT DESCRIPTION	KVA	AMP		AMP	KVA	CIRCUIT DESCRIPTION	CKT.
A1	LUMINAIRES L1–L10	0.8	20/2	1 N 2	15/2	0.2	PHOTOELECTRIC CONTROL	A2
A3	LUMINAIRES L11–L18	0.9	20/2	3 4	20/2		SPARE	A4
A5	SPARE		20/2	5 6				
				7 8				
				9 10				
				11 12				
				13 14				
				15 16				
				17 18				
				19 20				

TOTAL CONNECTED LOAD = 1.9 KVA

TOTAL AMPS = 7.7 A



3 LOAD CENTER "A" ARC FLASH WARNING LABEL
NTS

VOLTAGE DROPS					
CIRCUIT	SIZE	LENGTH	VOLTAGE	CURRENT	V.D.
A1	#6 AWG	1291	240V	3.33	1.84%
A3	#6 AWG	1324	240V	3.75	2.12%

LOAD CENTER NOTES:

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 SCOTCHCAL REFLECTIVE DECALS NOTING OWNERSHIP: MOA, 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.*

File: J:\Jobs\Data\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\03 Electrical\Phase 1\10142.00 Illumination Details – Phase 1.dwg

RECORD DRAWING

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WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D–22	162.47
	CB 7B	See MOA Benchmark Book, Page D–18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
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PHONE: (907) 562–3252
#AECL882–AK

CONSULTANT

STATE OF ALASKA 49 TH — Tyler R. Keene EE-14401 — REGISTERED PROFESSIONAL ENGINEER

SEAL

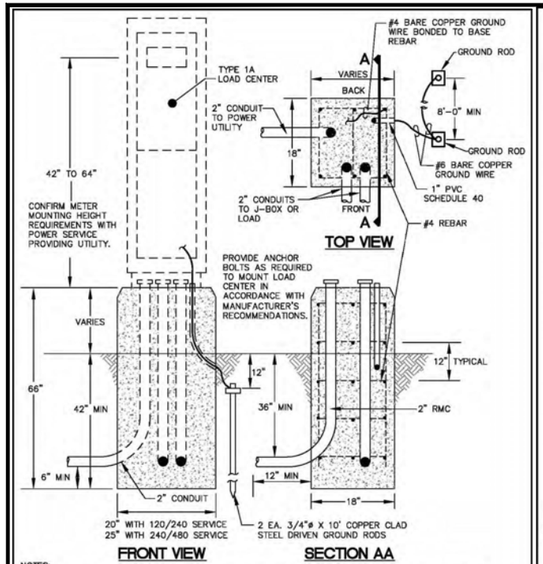
MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18–06 — 42ND AVENUE UPGRADE – PHASE 1 — LAKE OTIS PARKWAY TO PIPER STREET — SCHED C

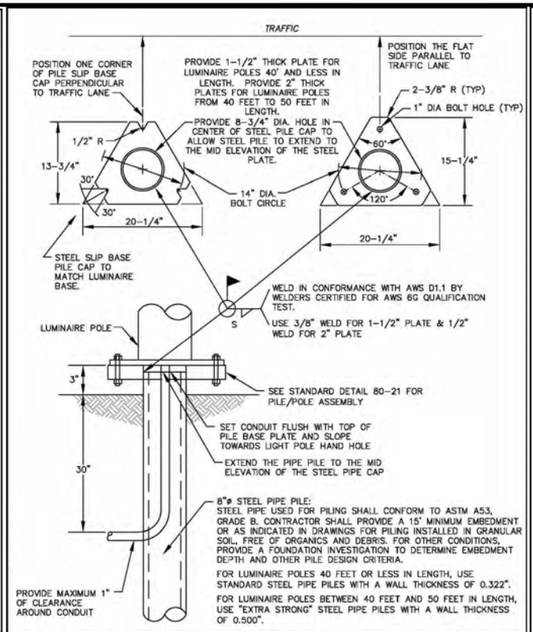
LC–A SCHEDULES AND DETAILS

SCALE HOR. VER. — GRID SW1733, SW1734, SW1735 — DATE AUGUST 2023 — STATUS 95% — SHEET 15 of 16

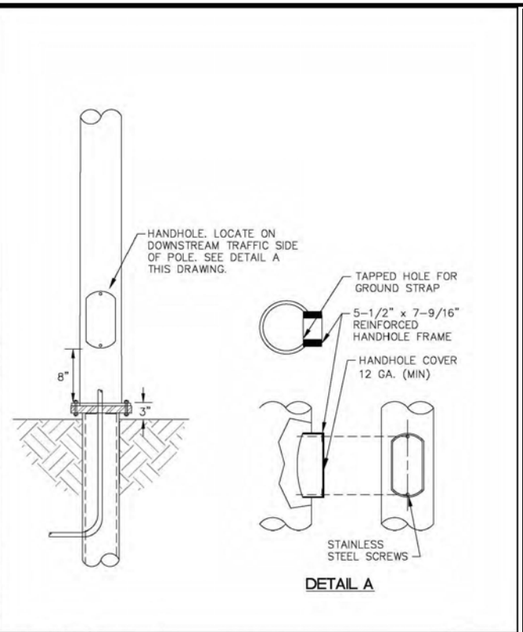


NOTES:
1. ORIENTATION OF CONDUIT SWEEPS IS REPRESENTATIVE. CONTRACTOR SHALL COORDINATE CONDUIT ORIENTATION WITH THE ENGINEER AND UTILITY.
2. PROVIDE NON-FROST SUSCEPTIBLE COMPACTED BACKFILL.
3. INSTALL TYPE 1A OR TYPE 2 JUNCTION BOX ADJACENT TO LOAD CENTER FOUNDATION. JUNCTION BOX SIZE TO BE DETERMINED USING THE LATEST VERSION OF MOA DESIGN CRITERIA MANUAL, CHAPTER 6.

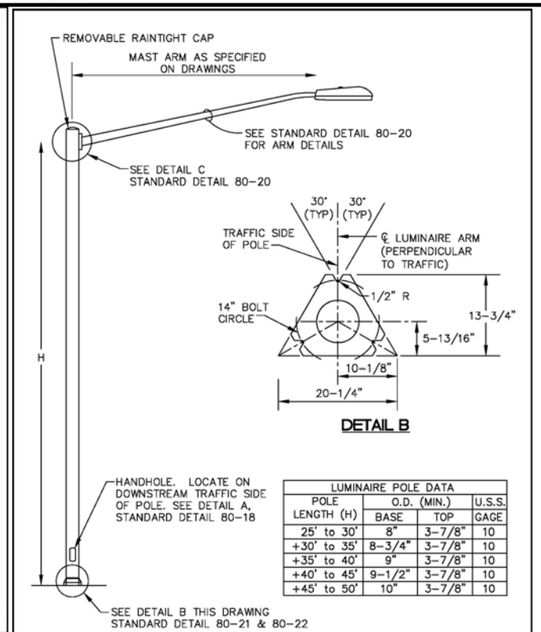
MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 5/08	CONCRETE FOUNDATION LOAD CENTER TYPE 1A	SECTION # 80.04	DETAIL # 80-2



MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 12/09	DRIVEN STEEL PILE LIGHT POLE FOUNDATION	SECTION # 80.04	DETAIL # 80-13

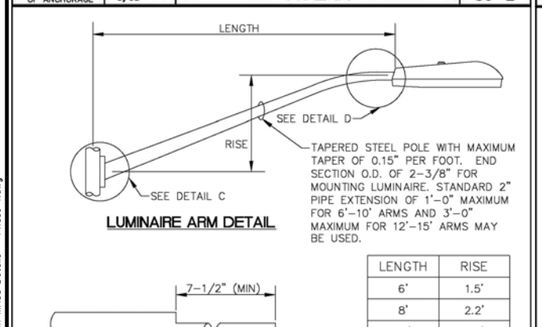


MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 11/14	LUMINAIRE POLE HANDHOLD DETAILS	SECTION # 80.04	DETAIL # 80-14

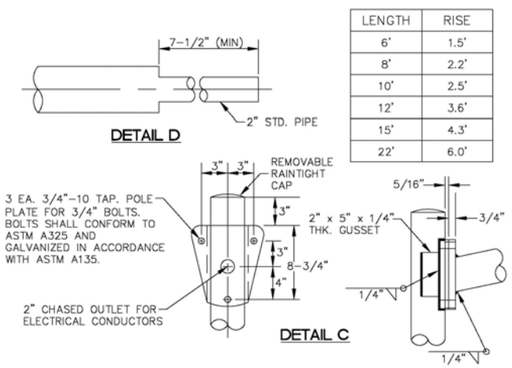


LUMINAIRE POLE DATA			
POLE LENGTH (H)	O.D. (MIN.) BASE	TOP	U.S.S. GAGE
25' to 30'	8"	3-7/8"	10
+30' to 35'	8-3/4"	3-7/8"	10
+35' to 40'	9"	3-7/8"	10
+40' to 45'	9-1/2"	3-7/8"	10
+45' to 50'	10"	3-7/8"	10

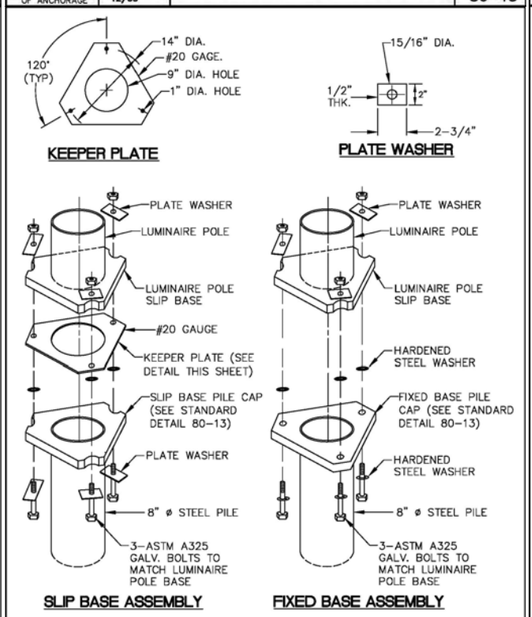
MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 7/08	FLANGE-MOUNTED LUMINAIRE POLE	SECTION # 80.05	DETAIL # 80-19



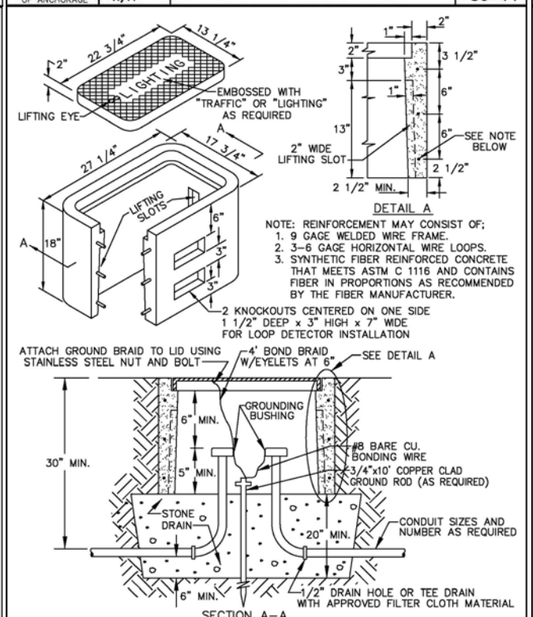
LENGTH	RISE
6'	1.5'
8'	2.2'
10'	2.5'
12'	3.6'
15'	4.3'
22'	6.0'



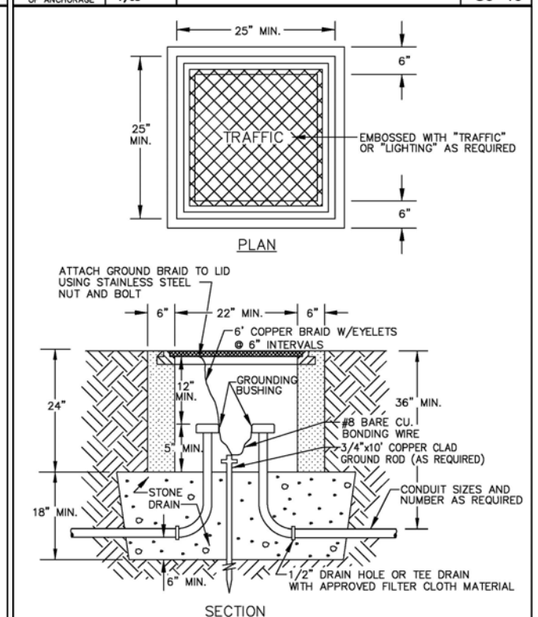
MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 11/14	LUMINAIRE ARM DETAIL	SECTION # 80.05	DETAIL # 80-20



MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 12/09	DRIVEN STEEL PIPE POLE ASSEMBLIES	SECTION # 80.04	DETAIL # 80-21



MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 10/07	TYPE 1A JUNCTION BOX	SECTION # 80.08	DETAIL # 80-31



MUNICIPALITY OF ANCHORAGE	SCALE: NTS	APPROVED:	REVISED: 5/08	TYPE II JUNCTION BOX	SECTION # 80.08	DETAIL # 80-32

SELECT MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICAITONS (MASS) DIVISION 80 ILLUMINATION DETAILS SHOWN FOR REFERENCE.

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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2. DATA TRANSFERRED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.
DATA TRANSFER CHECKED BY: _____ TITLE: _____
COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	JK
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47
	CB 7B	See MOA Benchmark Book, Page D-18	161.20
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 — 42ND AVENUE UPGRADE – PHASE 1 — SCHED C
LAKE OTIS PARKWAY TO PIPER STREET

MASS DIVISION 80 ILLUMINATION DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1733, SW1734, SW1735 | DATE AUGUST 2023 | STATUS 95% | SHEET 16 of 16

File:\\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\03 Electrical\Phase 1\10142.00 Illumination MASS Details - Phase 1.dwg