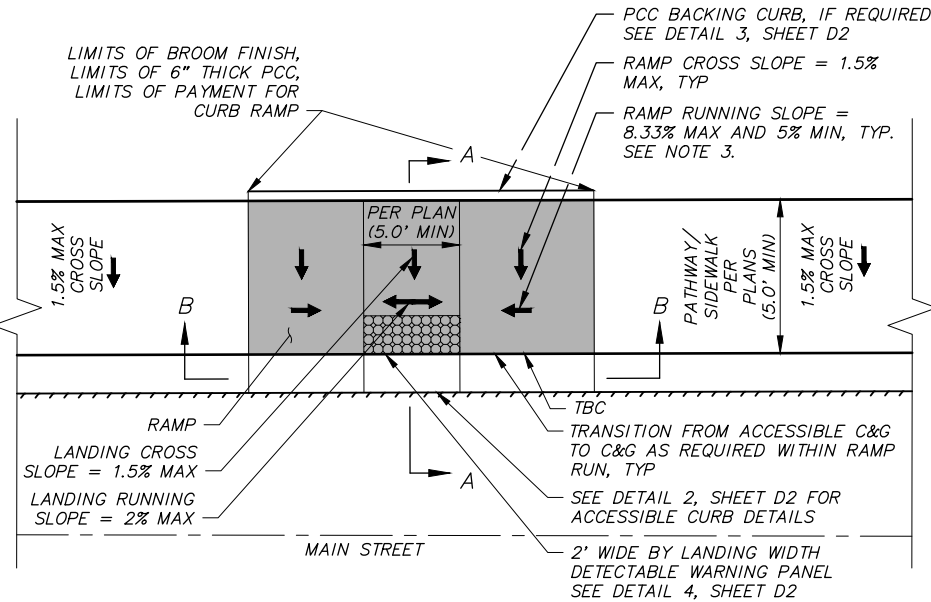


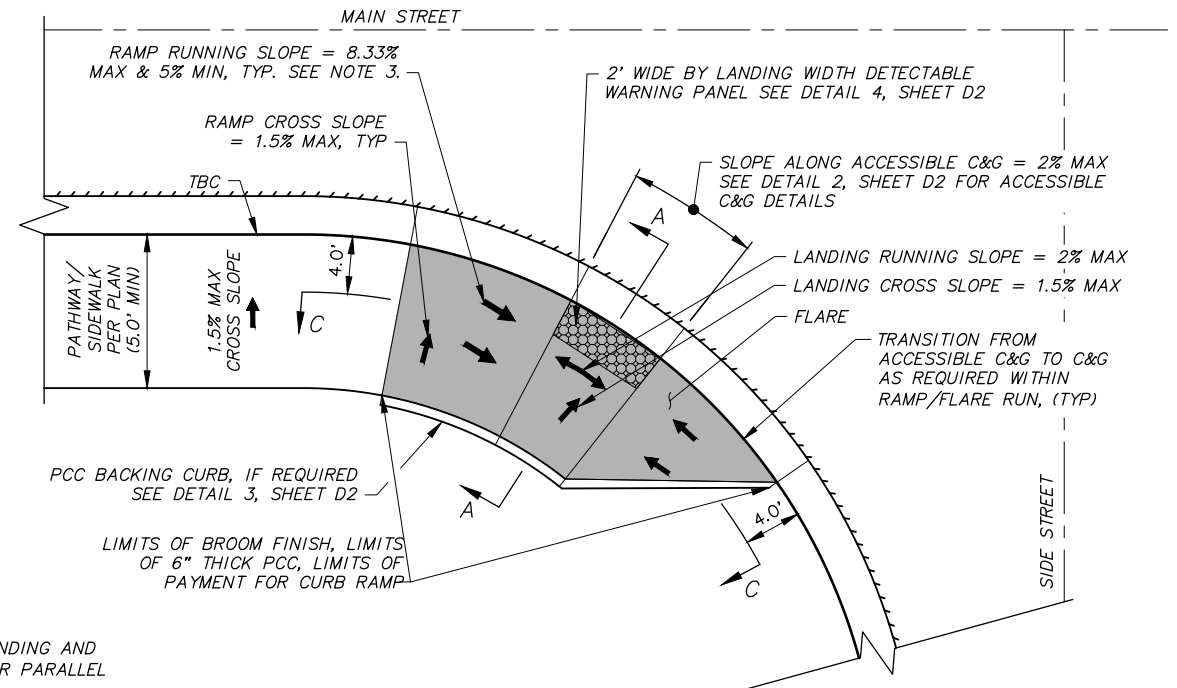
TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITH CONNECTING SIDE STREET SIDEWALK - PLAN VIEW

SCALE: NTS



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

SCALE: NTS

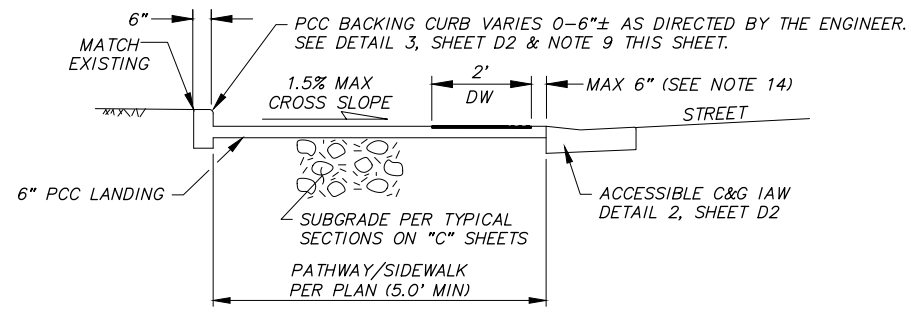


TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITHOUT CONNECTING SIDE STREET SIDEWALK - PLAN VIEW

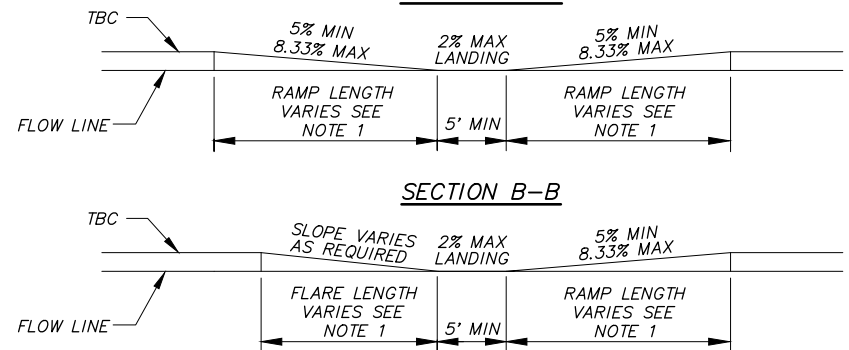
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SHEET NOTES:

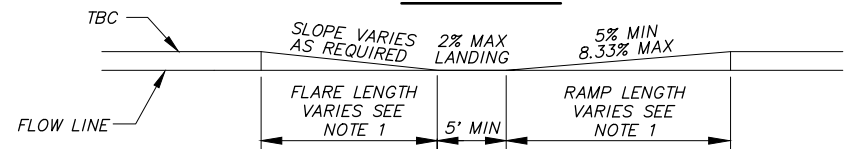
- SEE SHEETS R13-R27 FOR CURB RAMP TYPES, LOCATIONS, RAMP, LANDING AND FLARE LENGTHS AND ELEVATIONS. RAMP/FLARE/LANDING LENGTH FOR PARALLEL CURB RAMP SHALL BE AS MEASURED 4' OFF BACK OF CURB.
- NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
- FOR PARALLEL CURB RAMP, RAMP SHALL BE 15 FEET MAXIMUM. RAMP SHALL HAVE THE OUTSIDE EDGES AND JOINTS TRIMMED WITH A 1/4-INCH RADIUS EDGING TOOL.
- ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
- MINIMUM FLOWLINE SLOPE IN CURB RETURN IS 0.5%, UNLESS OTHERWISE NOTED.
- PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
- CONSTRUCT SIDEWALK ADJACENT TO CURB RAMP PER THE TYPICAL SECTIONS SHOWN ON THE "C" SHEETS.
- 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.
- 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 PER THE LANDSCAPING PLANS.
- CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- 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.
- 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.
- 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.
- 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.



SECTION A-A



SECTION B-B



SECTION C-C

TYPICAL CURB RAMP SECTIONS

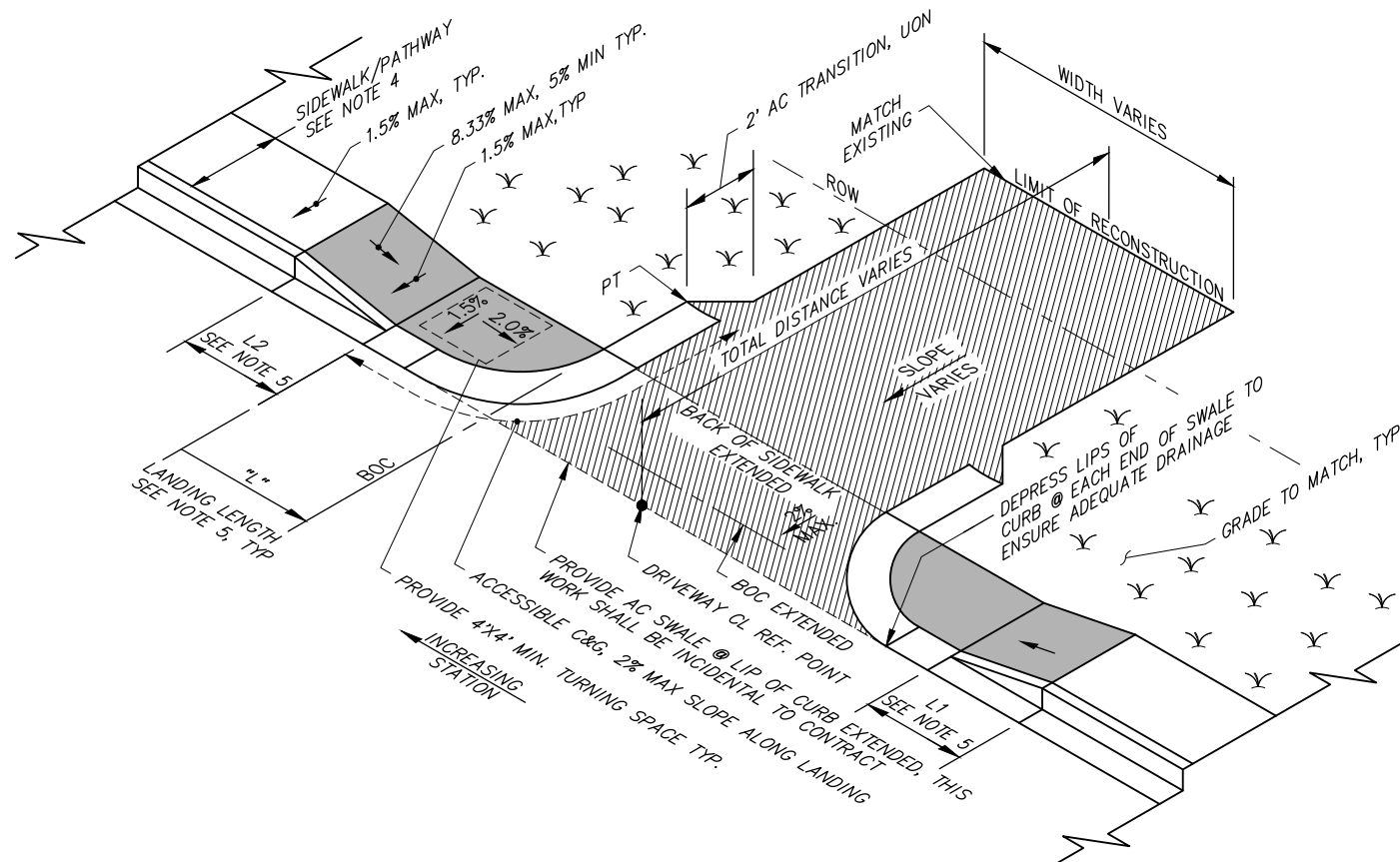
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File: I:\JobData\10142.00 42nd Avenue Upgrade\00 CAD\01 Phase 1\10142.00 Roadway Details_Phase 1.dwg

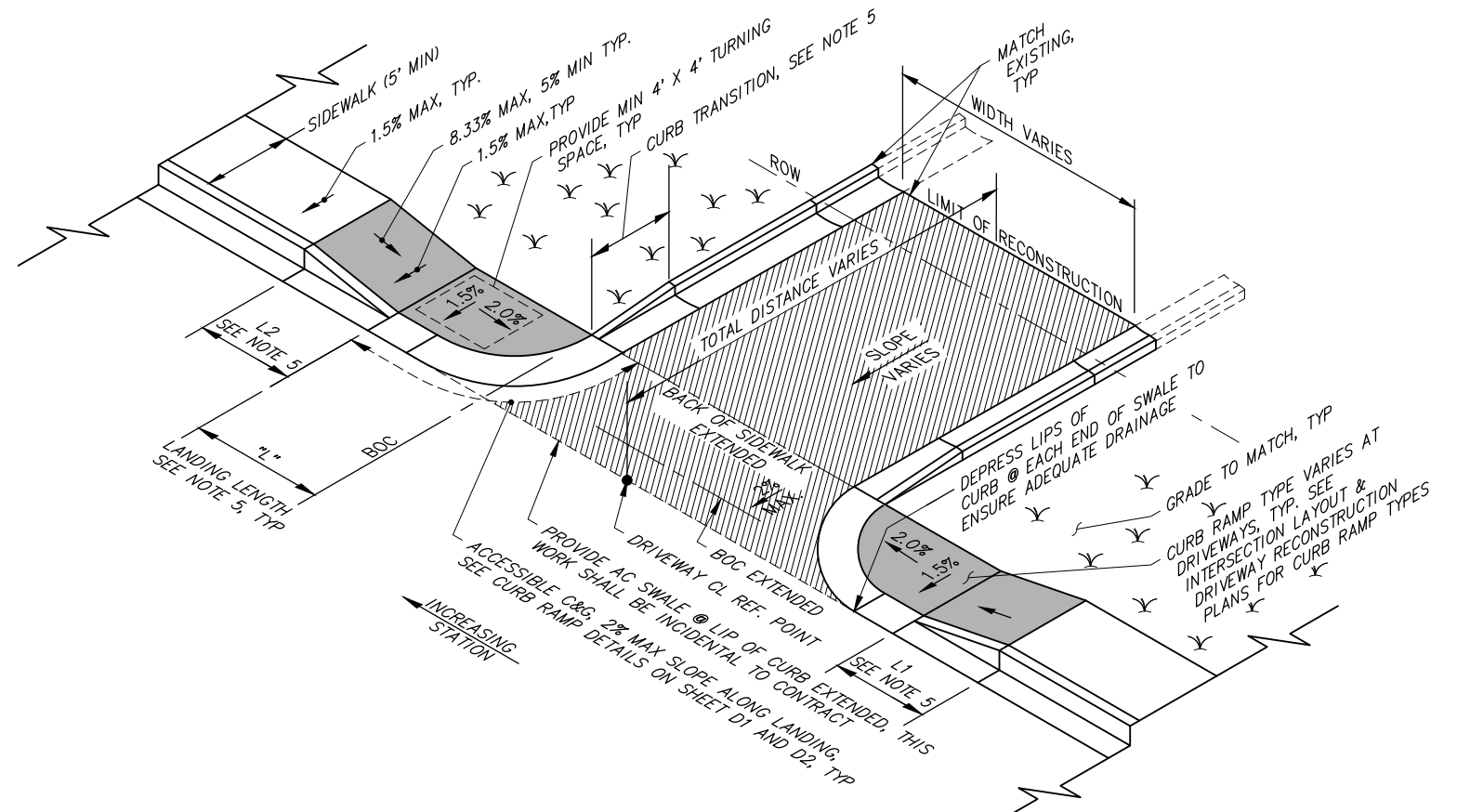
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2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____		3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____		PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM		REVISIONS		CONSULTANT		SEAL		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT 18-06 42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET ROADWAY DETAILS CURB RAMPS SCALE HOR. N/A VER. N/A GRID SW1735, SW1734, SW1735 DATE AUG 2022 STATUS 65% SHEET D1 of D10							



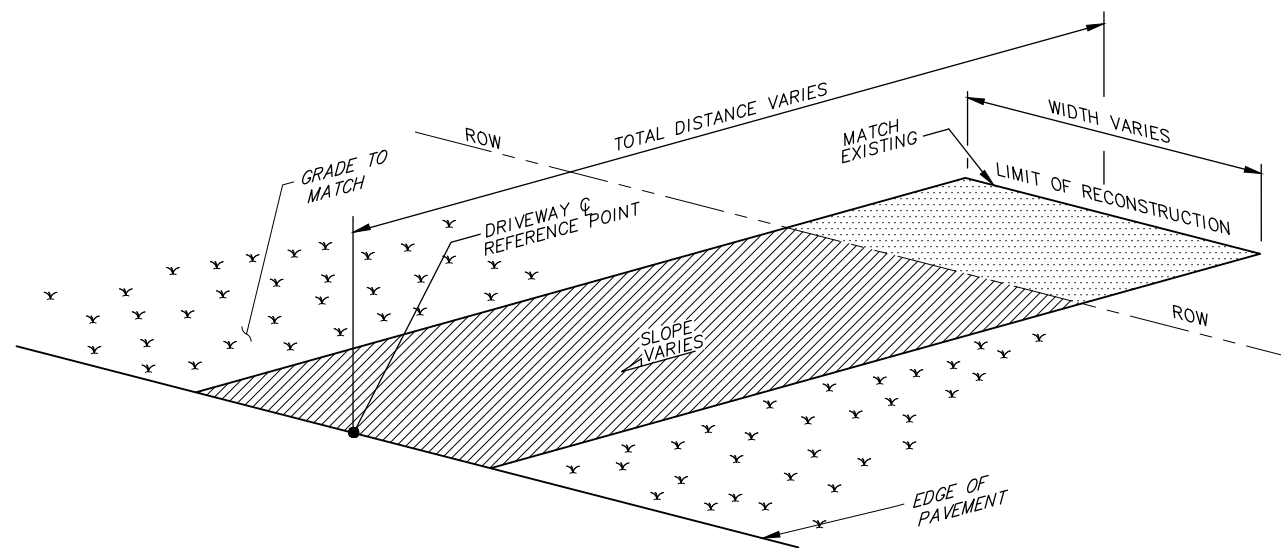
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
18-06	42ND AVENUE UPGRADE — PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET		SCHED A
ROADWAY DETAILS			
CURB RAMPS			
SCALE	HOR. N/A VER. N/A	GRID SW1733, SW1734, SW1735 DATE AUG 2022 STATUS 65%	D2 of D10



1) TYPICAL DRIVEWAY CURB RETURN WITHOUT CONNECTING CURB



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.
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 |

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: _____	

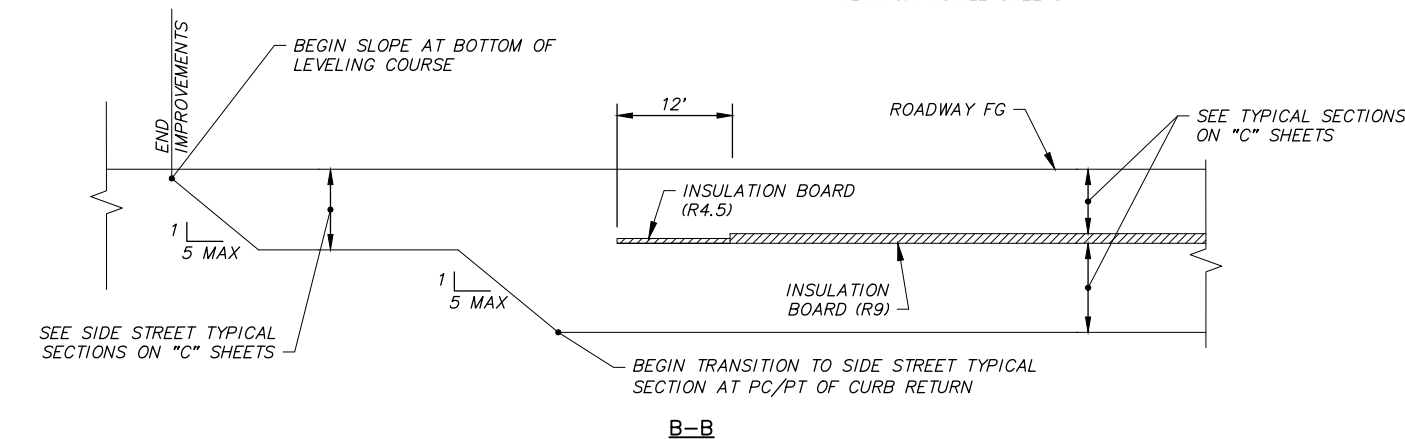
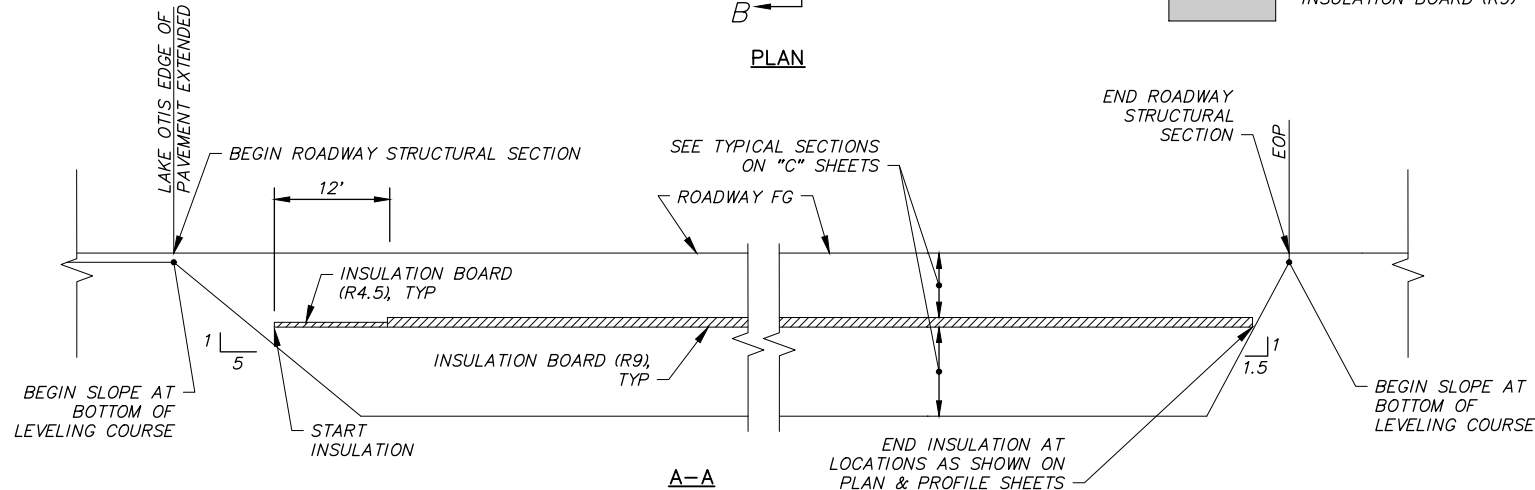
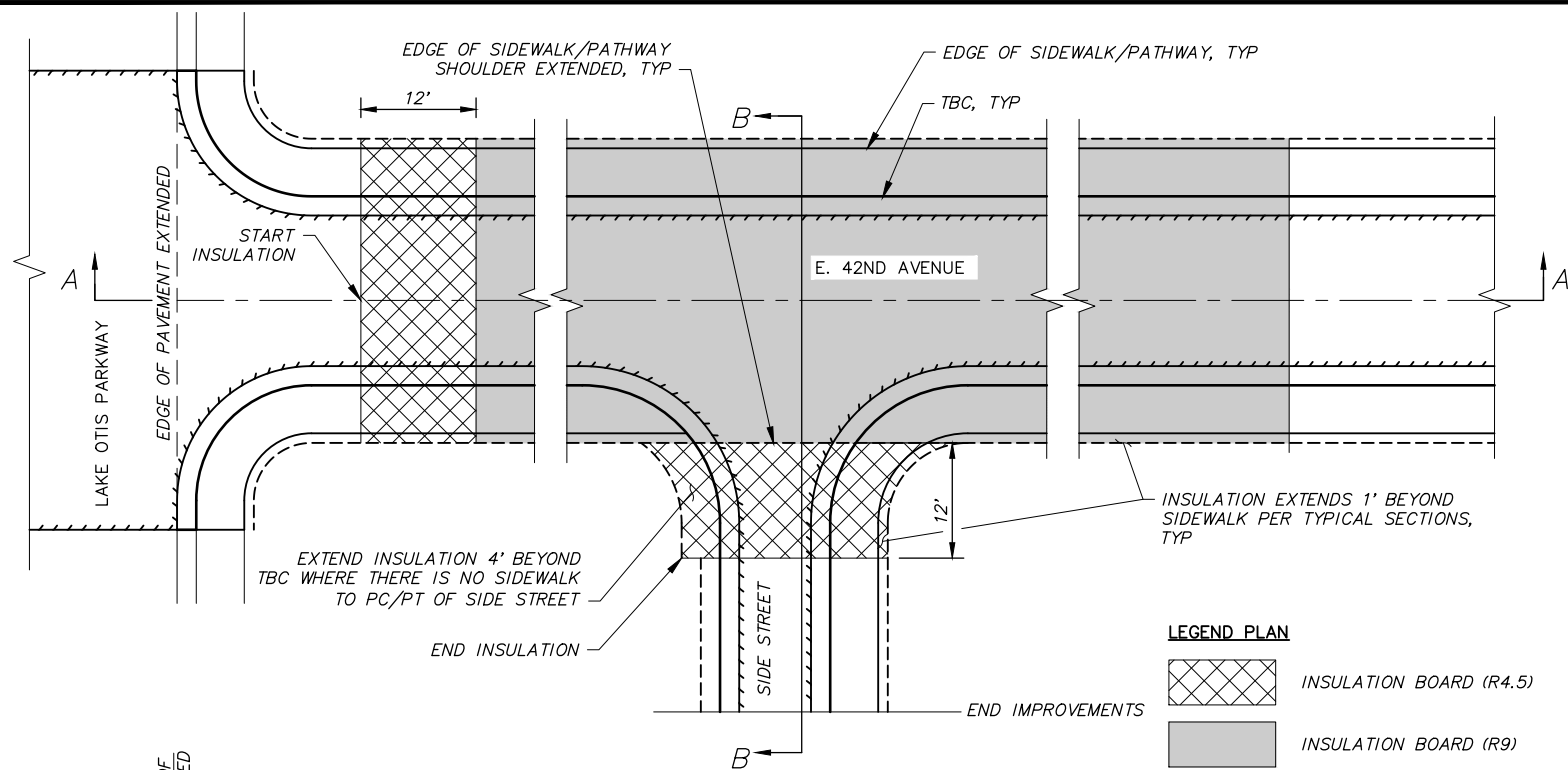
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PROFILE	RB	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

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

 <p>CRW ENGINEERING GROUP, LLC</p> <p>3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECLB82-AK</p>	 <p>49TH</p> <p>Robert W. Burtick CE-123959</p> <p>REGISTERED PROFESSIONAL ENGINEER</p>
<p>CONSULTANT</p>	<p>SEAL</p>

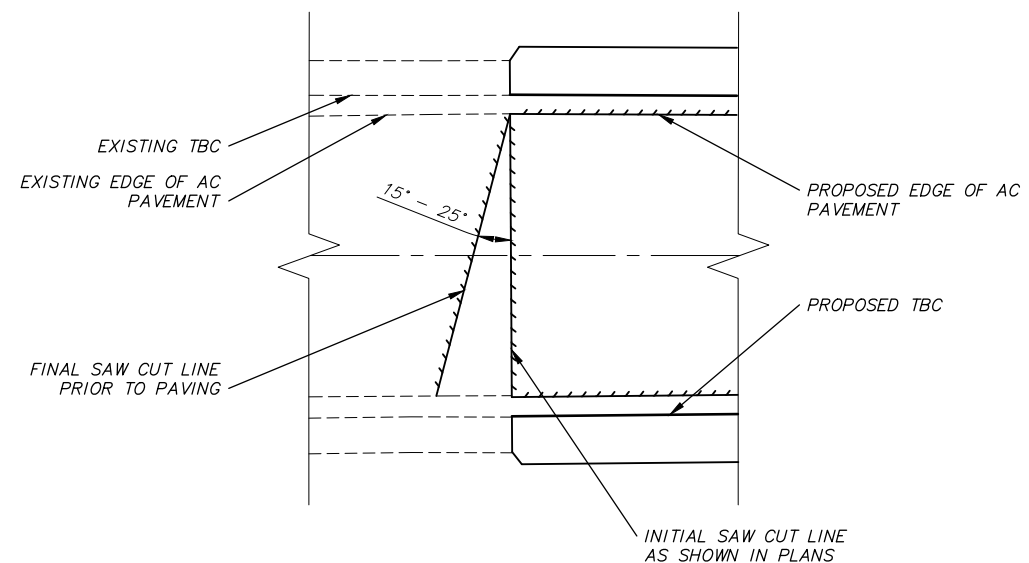
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	18-06		42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	
	ROADWAY DETAILS			
	DRIVEWAYS			
SCALE HOR. N/A VER. N/A	GRID SW1735, SW1734, SW1735		D4 of D10	
	DATE AUG 2022	STATUS 65%	SHEET	

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1 BOARD INSULATION AND EXCAVATION TRANSITION DETAIL

SCALE: NTS

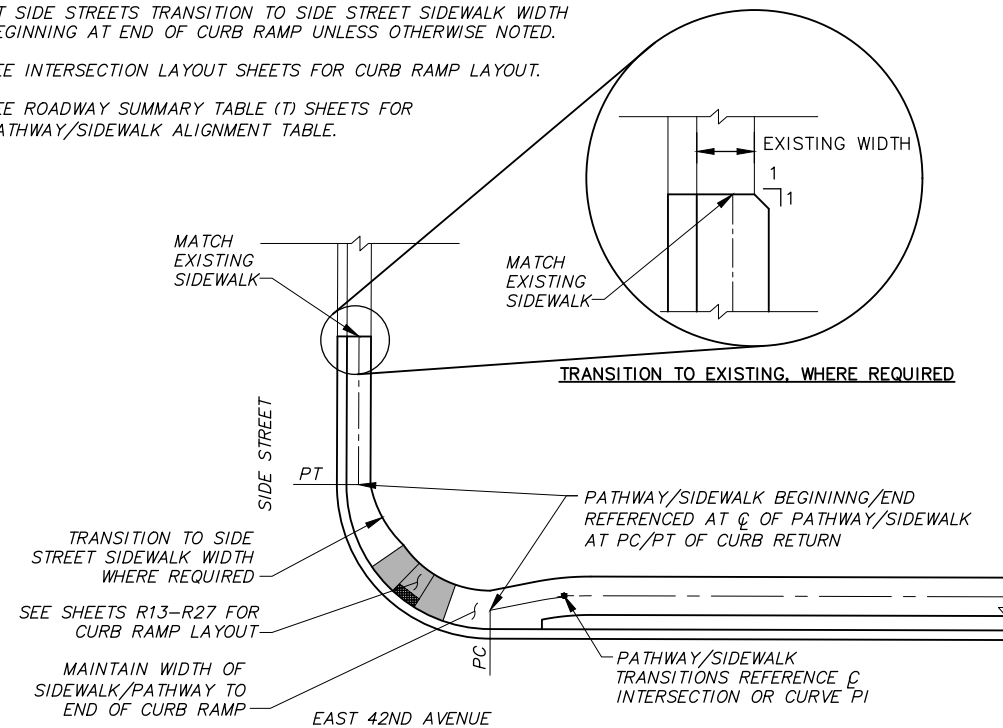


2 TRANSVERSE SAW CUT JOINT DETAIL

SCALE: NTS

SIDEWALK/PATHWAY TRANSITION DETAIL NOTES:

1. AT SIDE STREETS TRANSITION TO SIDE STREET SIDEWALK WIDTH BEGINNING AT END OF CURB RAMP UNLESS OTHERWISE NOTED.
2. SEE INTERSECTION LAYOUT SHEETS FOR CURB RAMP LAYOUT.
3. SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR PATHWAY/SIDEWALK ALIGNMENT TABLE.



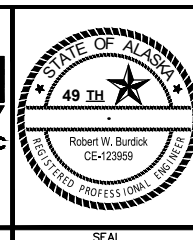
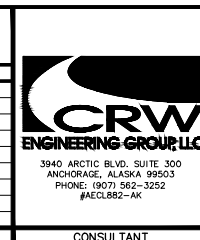
3 SIDEWALK/PATHWAY TRANSITION DETAIL

SCALE: NTS

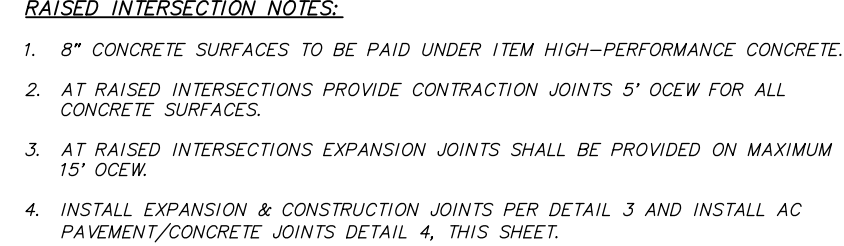
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COMPANY: _____ DATE: _____
BY: _____

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

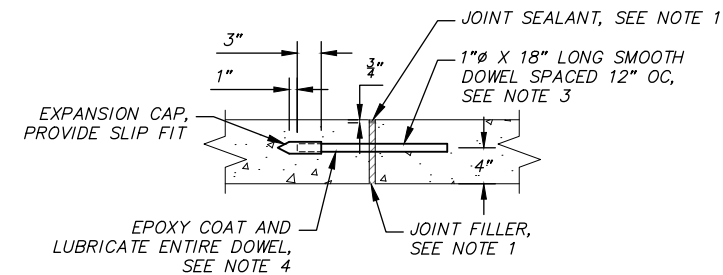
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DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47				
STAKING	CB 7B	See MOA Benchmark Book, Page D-18	161.20				
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							
REVISIONS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



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT					
18-06		42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET		SCHED A	
ROADWAY DETAILS					
MISCELLANEOUS DETAILS					
SCALE		GRID SW1733, SW1734, SW1735		D6 of D10	
HOR. N/A VER. N/A		DATE AUG 2022		STATUS 65%	
				SHEET	



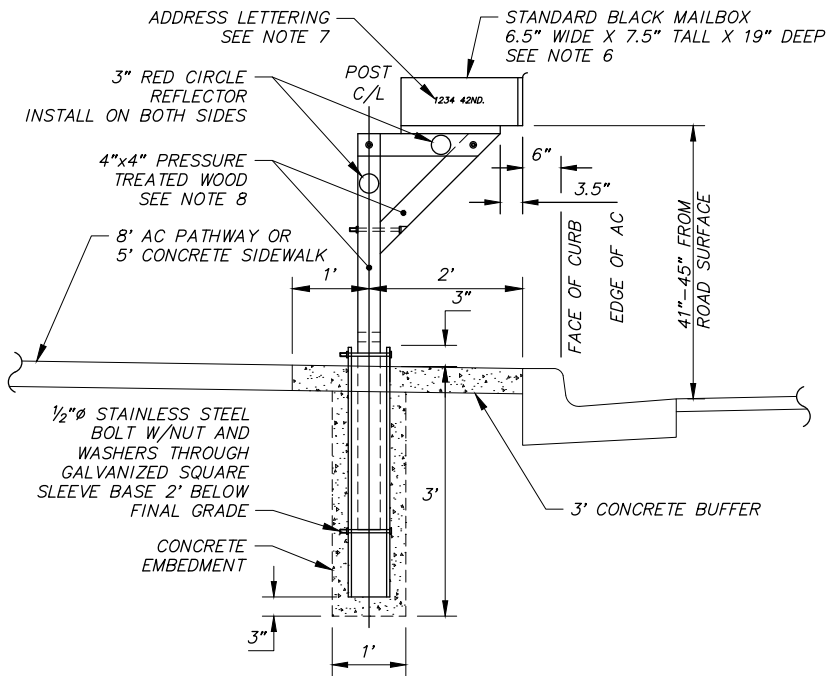
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SCALE: NTS



2 CENTERLINE PROFILE - SCALE: NTS

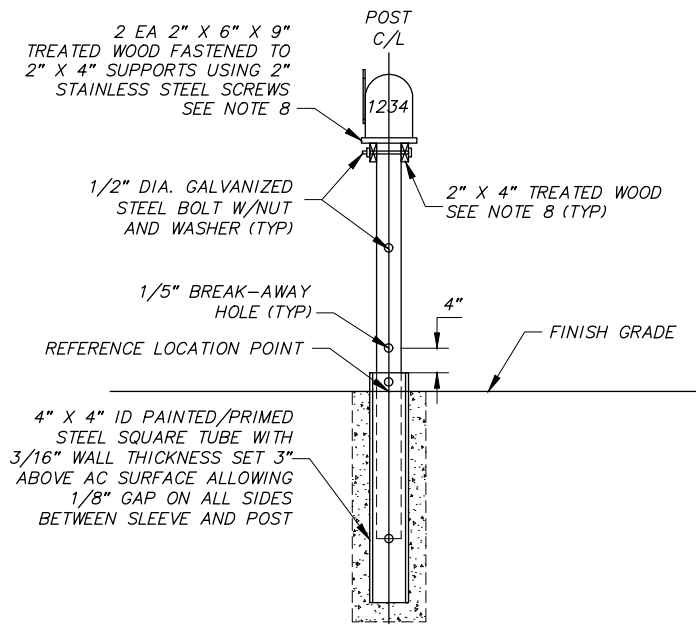
3 EXPANSION & CONTRACTION





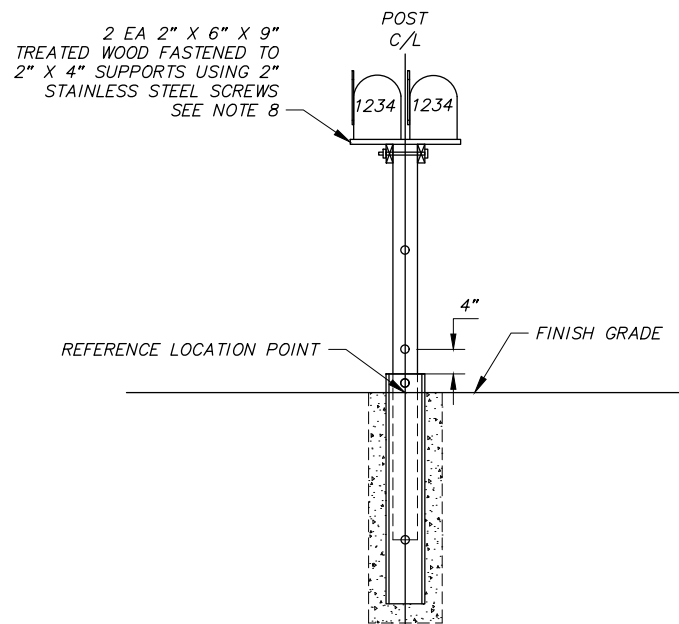
TYPICAL WOOD POST MAILBOX INSTALLATION

SCALE: NTS



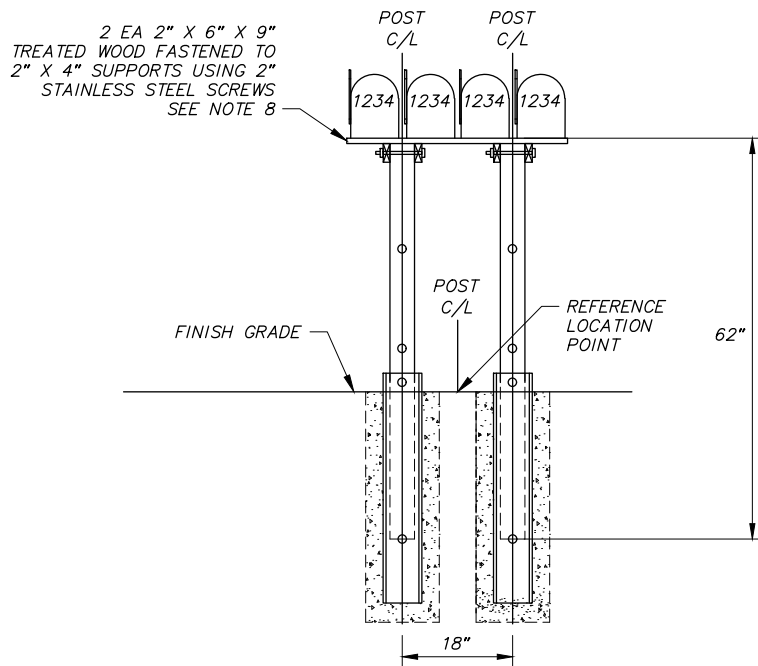
TYPICAL SINGLE MAILBOX INSTALLATION

SCALE: NTS



TYPICAL COMBINED MAILBOX INSTALLATION FOR 2 BOXES

SCALE: NTS



TYPICAL COMBINED MAILBOX INSTALLATION FOR MORE THAN 2 BOXES

SCALE: NTS

TYPICAL WOOD POST MAILBOX INSTALLATION NOTES:

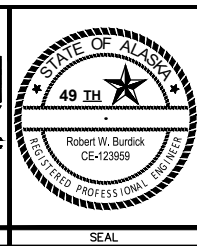
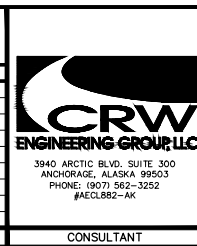
- SEE "RELOCATE MAILBOX" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
- RELOCATE COMBINED MAILBOXES TO THE APPROXIMATE EXISTING STATION AND 2' BEHIND THE TOP BACK OF CURB.
- CUT OFF EXCESS BOLT AND FILE SMOOTH AFTER TIGHTENING.
- MAILBOXES AND SUPPORTS SHALL CONFORM WITH U.S. POSTAL SERVICE REGULATIONS.
- 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.
- CONTRACTOR SHALL COORDINATE WITH THE MOA AND ENGINEER IN THE FIELD REGARDING MAILBOX SUBSTITUTIONS OR MAILBOX SIZING, PRIOR TO ORDERING MATERIALS.
- 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.
- ALL WOOD SHALL BE PRESSURE TREATED WOOD SEALED WITH A SEMI-TRANSPARENT OIL BASED STAIN BROWN IN COLOR. SUBMIT COLOR SAMPLE FOR APPROVAL.
- CONTRACTOR TO SEAL THE TUBE BASE WHEN SETTING CONCRETE TO AVOID CONCRETE FROM ENTERING THE TUBE.
- 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.
- CONTRACTOR MAY ADJUST CONCRETE EMBEDMENT DEPTH IF UTILITY CONFLICTS ARE ENCOUNTERED.

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1. DATA PROVIDED 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	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

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






PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
18-06	42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	SCHED A	
ROADWAY DETAILS			
MAILBOX			
SCALE	HOR. N/A VER. N/A	GRID SW1733, SW1734, SW1735	D8 of D10
DATE AUG 2022		STATUS 65%	SHEET

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



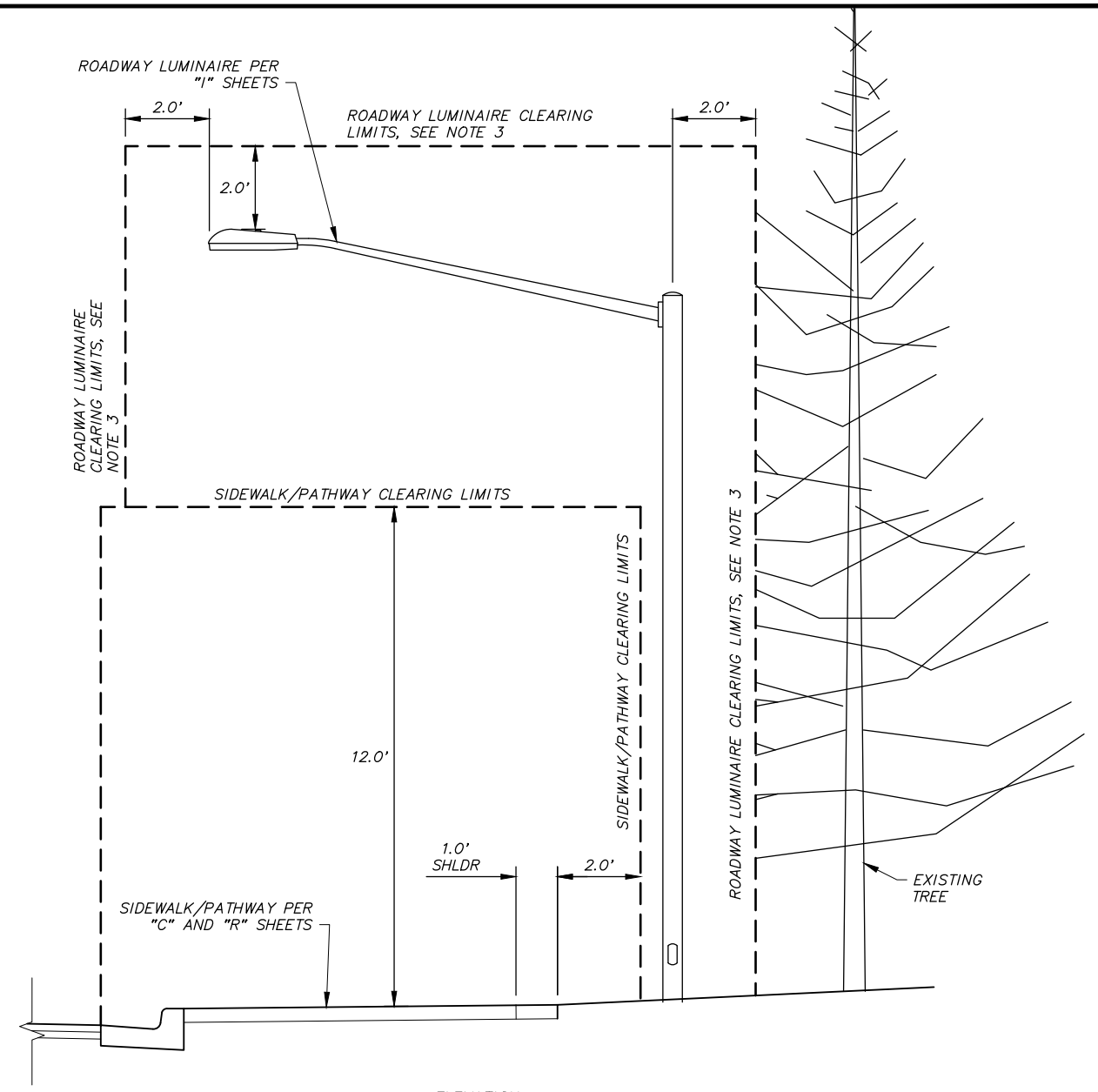
1. BOULDERS PLACED WITHIN SITE DISTANCE TRIANGLES SHALL HAVE A MAXIMUM HEIGHT OF 18" ABOVE GRADE.
2. MAX. 2/3 BOULDER HEIGHT ABOVE GROUND, MIN. 1/3 HEIGHT.
3. FILL TO ENSURE NO GAPS BELOW SPRINGLINE
4. BOULDERS SHALL BE PLACED TO ENSURE A CLEAR DISTANCE OF 7 FEET FROM TOP BACK OF CURB.

RECORD DRAWING												 3540 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEO.682-AK						PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT					
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: _____		18-06 42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED A																					
2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____																ROADWAY DETAILS							
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: _____																FENCE AND BOULDERS							
																SCALE		HOR. N/A VER. N/A		GRID SW1733, SW1734, SW1735 DATE AUG 2022 STATUS 65%		SHEET D9 of D10	

ELEVATION

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.

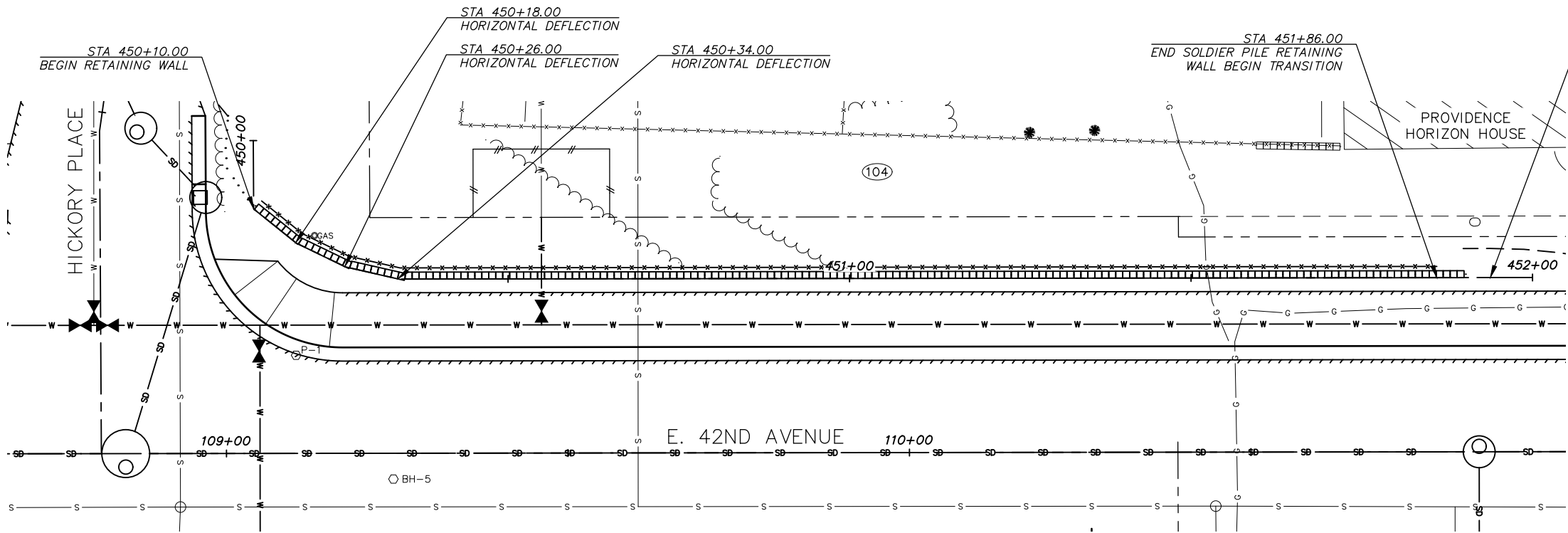
SCALE: NTS



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.

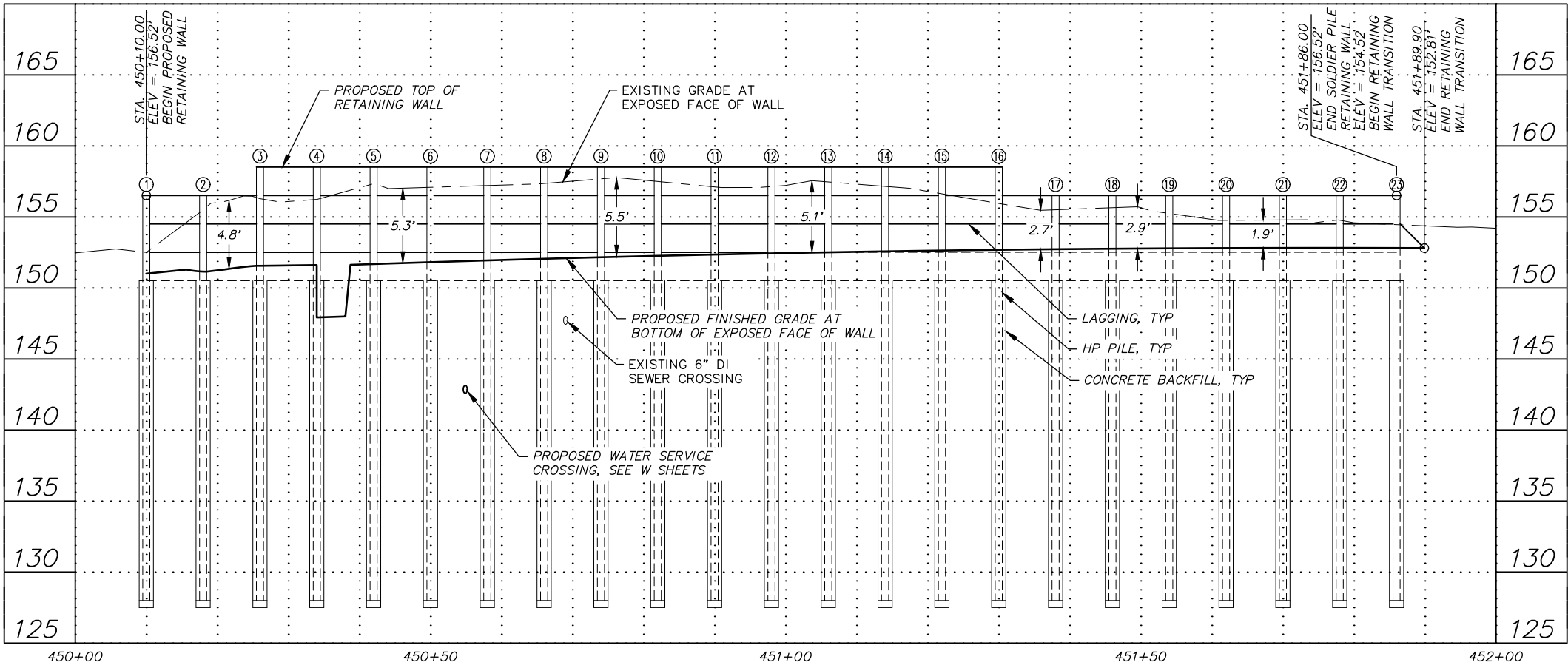
SCALE: NTS

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. 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- SHEET NOTES:**
- SEE SHEET RW2 & RW3 FOR TYPICAL RETAINING WALL SECTIONS & DETAILS.
 - SEE DETAIL 3, ON SHEET RW2 FOR RETAINING WALL TRANSITION.
 - SEE DETAIL 5, SHEET RW3 FOR PANEL SECTIONS AT HORIZONTAL DEFLECTIONS.

RETAINING WALL ALIGNMENT TABLE					
RETAINING WALL		HICKORY PLACE		E. 42ND AVENUE	
STATION	OFFSET	STATION	OFFSET	STATION	OFFSET
450+00.00	CL	20+48.99	22.50 RT	—	—
450+10.00	CL	20+35.70	22.50 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	BOTTOM OF STEEL ELEVATION
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	128.00
18	156.52	128.00
19	156.52	128.00
20	156.52	128.00
21	156.52	128.00
22	156.52	128.00
23	156.52	128.00

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

GRAPHIC SCALE 20 10 0 10 20					
FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV
DESIGN CRW BOOK No. 197, 198 & 201		GAAB 69	See MOA Benchmark Book, Page D-22	162.47	
STAKING		CB 7B	See MOA Benchmark Book, Page D-18	161.20	
ASBUILT					
CONTRACTOR					
INSPECTOR					
BASIS OF THIS DATUM GAAB 1972 ADJUST					
PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM	
				REVISIONS	
				CONSULTANT	



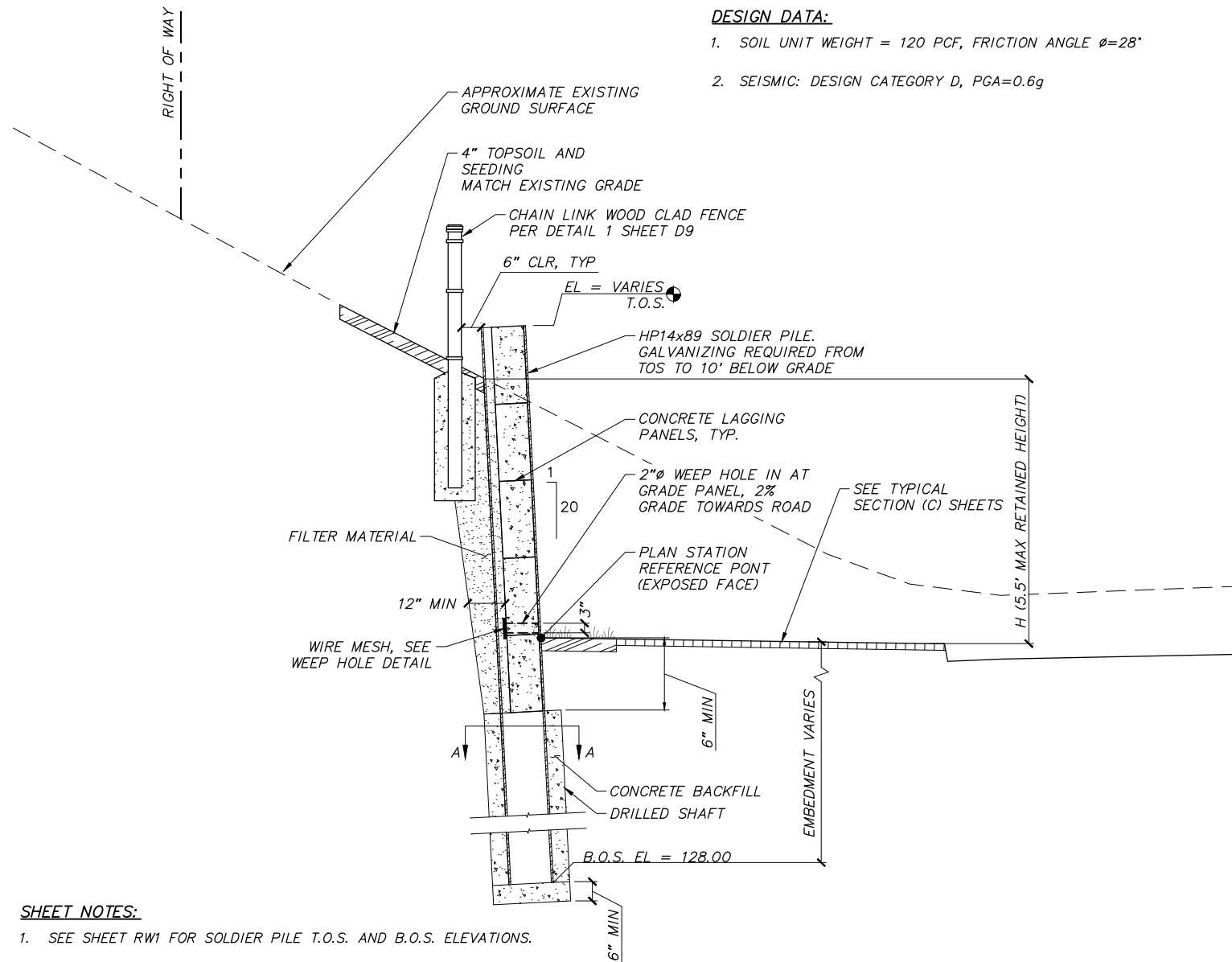
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

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

RETAINING WALL PLAN & PROFILE

SCALE HOR. 1"=10' VER. 1"=2' GRID SW1733, SW1734, SW1735 DATE AUG 2022 STATUS 65% SHEET RW1 of RW3

File: I:\JobData\10142.00 42nd Avenue Upgrade\00 CADD\01 Phase 1\10142.00 Retaining Wall Details_Phase 1.dwg



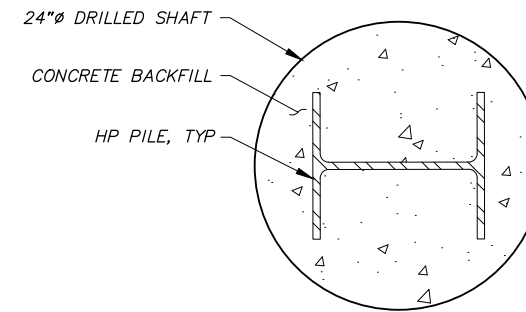
SHEET NOTES:

1. SEE SHEET RW1 FOR SOLDIER PILE T.O.S. AND B.O.S. 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

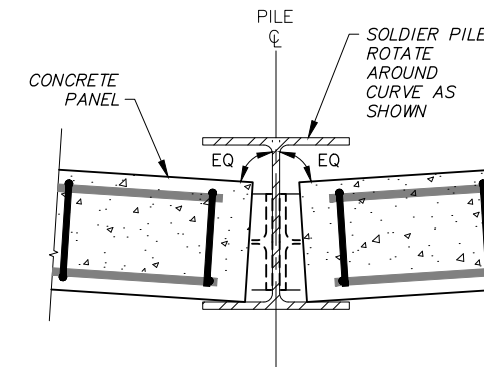
TYPICAL SOLDIER PILE WALL SECTION

SCALE: NTS



SOLDIER PILE SECTION A-A

SCALE: NTS



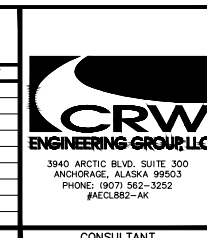
**SOLDIER PILE & PANEL DETAIL
@ HORIZONTAL DEFLECTIONS**

SCALE: NTS

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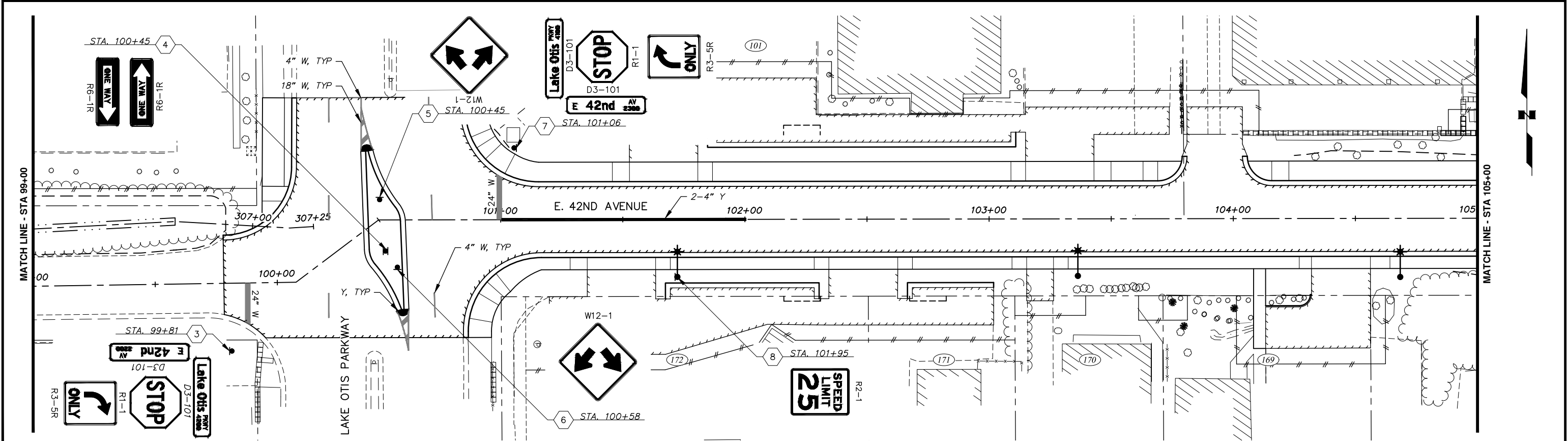
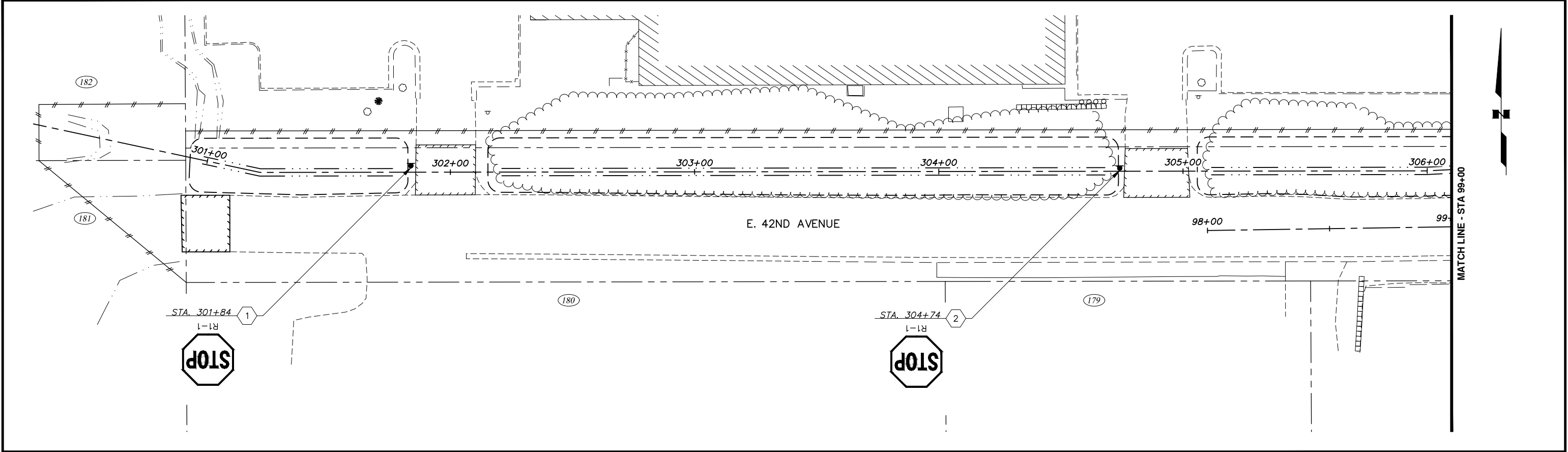
FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47				
STAKING	CB 7B	See MOA Benchmark Book, Page D-18	161.20				
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							
REVISIONS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



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 AUG 2022 STATUS 65%	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



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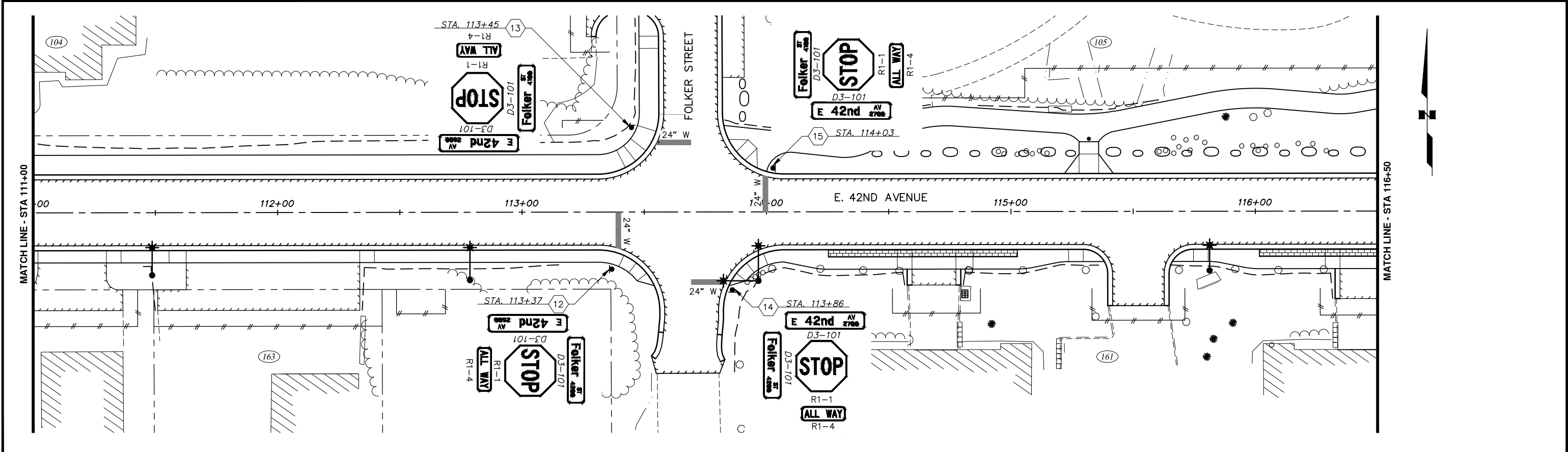
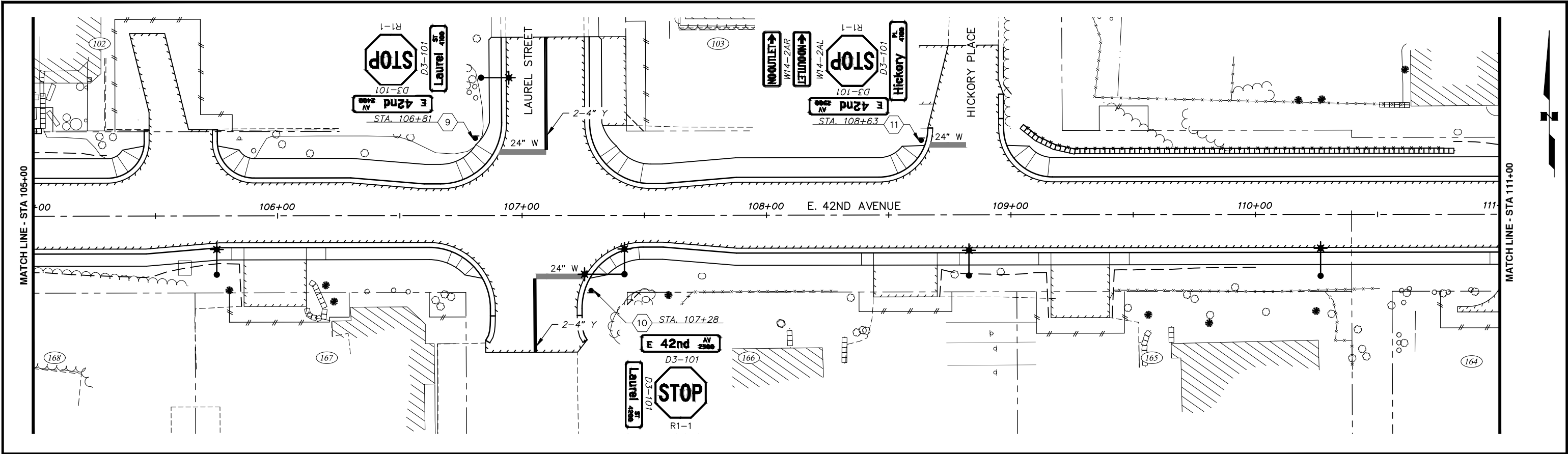
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ASBUILT							
CONTRACTOR							
INSPECTOR							

PLAN CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS



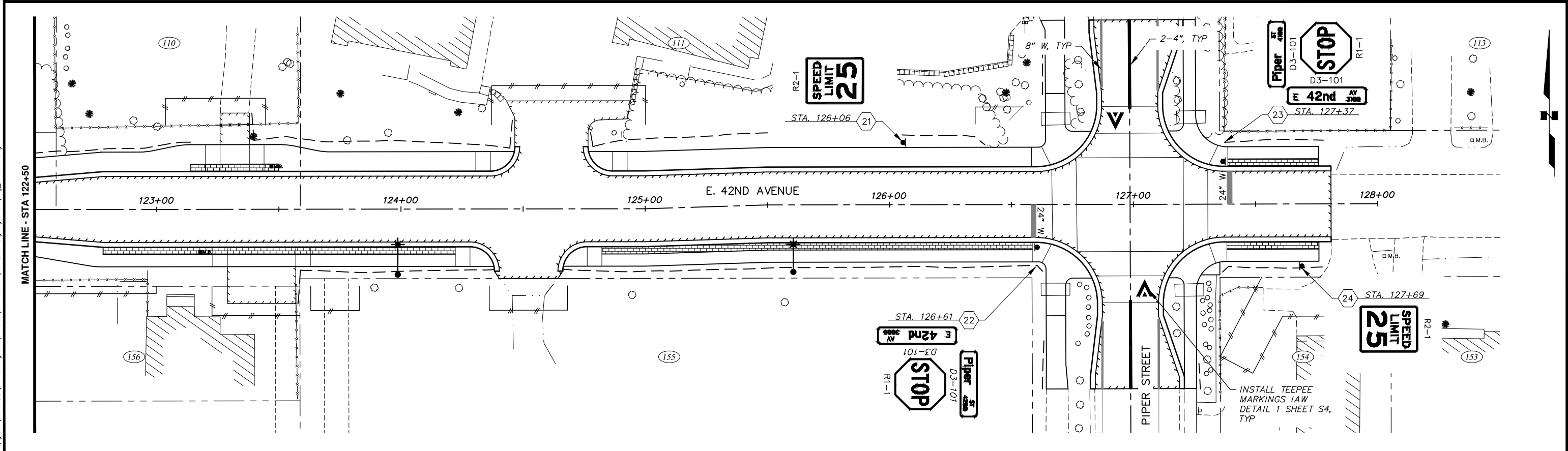
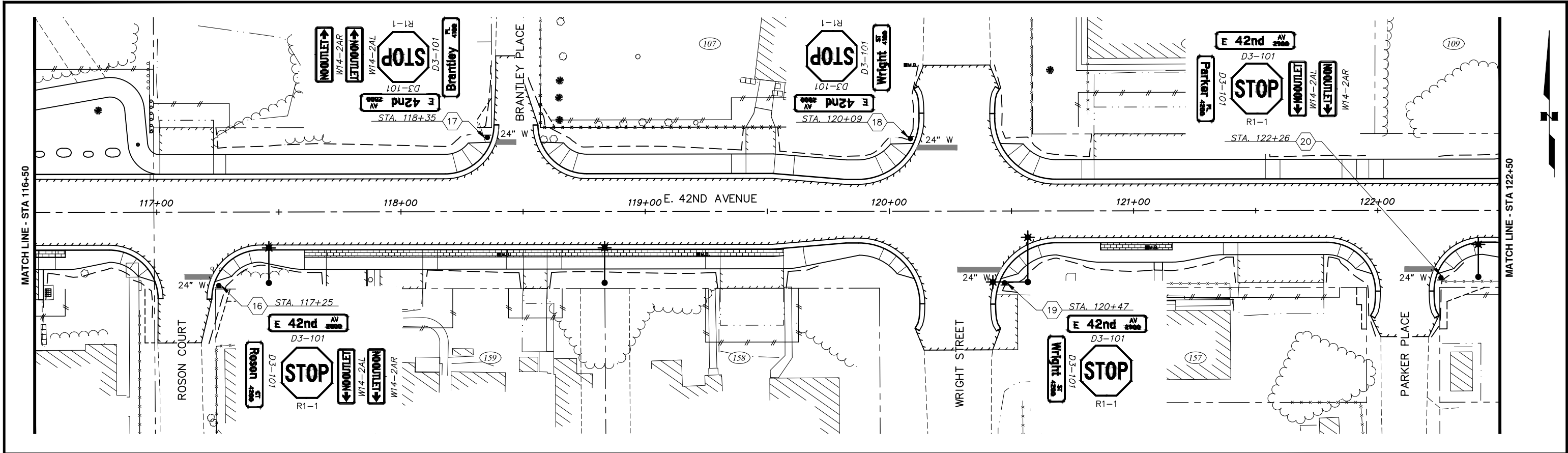
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
18-06	42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	SCHED A	
SIGNING & STRIPING			
STA 98+00 TO STA 105+00			
SCALE HOR. 1"=20' VER. N/A	GRID SW1733, SW1734, SW1735	DATE AUG 2022	STATUS 65%
SHEET			S1 of S4

File: I:\JobData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\10142.00 Signing & Striping Phase 1.dwg



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: _____		<table><tr><td>DATA</td><td>DRAWN BY</td><td>CHECKED BY</td></tr><tr><td>BASE</td><td>TS</td><td>AR</td></tr><tr><td>TOPOGRAPHY</td><td>TS</td><td>AR</td></tr><tr><td>PROFILE</td><td>RB</td><td>EJ</td></tr><tr><td>STORM SEWER</td><td>AA</td><td>JH</td></tr><tr><td>WATER/SANITARY SEWER</td><td>AA</td><td>JK</td></tr><tr><td>GAS</td><td>TS</td><td>AR</td></tr><tr><td>TELEPHONE</td><td>TS</td><td>AR</td></tr><tr><td>ELECTRIC</td><td>JH</td><td>TK</td></tr><tr><td>DESIGN</td><td>RB</td><td>EJ</td></tr><tr><td>QUANTITIES</td><td>RB</td><td>JK</td></tr><tr><td>PRELIMINARY/FINAL</td><td>RB</td><td>JK</td></tr><tr><td>MUNICIPAL/STATE</td><td>RB</td><td>JK</td></tr></table>	DATA	DRAWN BY	CHECKED BY	BASE	TS	AR	TOPOGRAPHY	TS	AR	PROFILE	RB	EJ	STORM SEWER	AA	JH	WATER/SANITARY SEWER	AA	JK	GAS	TS	AR	TELEPHONE	TS	AR	ELECTRIC	JH	TK	DESIGN	RB	EJ	QUANTITIES	RB	JK	PRELIMINARY/FINAL	RB	JK	MUNICIPAL/STATE	RB	JK	<table><tr><td>FIELD BOOKS</td><td>BM NO.</td><td>LOCATION</td><td>ELEV.</td><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td></tr><tr><td>DESIGN CRW BOOK No. 197, 198 & 201</td><td>GAAB 69</td><td>See MOA Benchmark Book, Page D-22</td><td>162.47</td><td></td><td></td><td></td><td></td></tr><tr><td>STAKING</td><td>CB 7B</td><td>See MOA Benchmark Book, Page D-18</td><td>161.20</td><td></td><td></td><td></td><td></td></tr><tr><td>ASBUILT</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>CONTRACTOR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>INSPECTOR</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47					STAKING	CB 7B	See MOA Benchmark Book, Page D-18	161.20					ASBUILT								CONTRACTOR								INSPECTOR								<table><tr><td>PLAN CHECK</td><td>CONSTRUCTION RECORD</td><td>VERTICAL DATUM</td><td>REVISIONS</td><td>CONSULTANT</td><td>SEAL</td></tr></table>	PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL	<table><tr><td colspan="2">PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</td></tr><tr><td>18-06</td><td>42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET</td></tr><tr><td colspan="2">SIGNING & STRIPING</td></tr><tr><td colspan="2">STA 105+00 TO STA 116+50</td></tr><tr><td>SCALE HOR. 1"=20' VER. N/A</td><td>GRID SW733, SW734, SW735 DATE AUG 2022 STATUS 65% SHEET S2 of S4</td></tr></table>	PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT		18-06	42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	SIGNING & STRIPING		STA 105+00 TO STA 116+50		SCALE HOR. 1"=20' VER. N/A	GRID SW733, SW734, SW735 DATE AUG 2022 STATUS 65% SHEET S2 of S4
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70.11

STANDARD SIGN

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	WIDTH	HEIGHT	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
						(INCHES)	(INCHES)				
S1	1	301+84	2.7 LT	R1-1	STOP	30	30	6.25	N	2" PST	
	2	304+74	1.3 LT	R1-1	STOP	30	30	6.25	N	2" PST	
	3	99+81	27.7 RT	D3-101	E 42ND AV 2200	36	8	2.00	N/S	2.5" PST	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	24	30	5.00	W		
	4	100+45	11.9 RT	R6-1R	ONE WAY	36	12	3.00	E/W	2" PST	MOUNT 2 SIGNS BACK TO BACK
	5	100+50	8.3 LT	W12-1	DOUBLE ARROW	30	30	6.25	N	2" PST	
6	100+58	19.4 RT	W12-1	DOUBLE ARROW	30	30	6.25	S	2" PST		
7	101+06	29.4 LT	D3-101	E 42ND AV 2300	36	8	2.00	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	24	30	5.00	E			
8	101+72	23.5 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		
				R1-4	ALL WAY	6	18	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			
			R1-4	ALL WAY	6	18	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			
			R1-4	ALL WAY	6	18	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			
			R1-4	ALL WAY	6	18	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						

STANDARD SIGN (CONT.)

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	WIDTH	HEIGHT	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
						(INCHES)	(INCHES)				
S3	17	118+35	30.1 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		
	18	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		
	19	120+47	29.4 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		
	20	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					
	21	126+06	25.5 LT	R2-1	SPEED LIMIT 25	24	30	5.00	E	2" PST	
	22	126+61	25.5 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		
23	127+37	25.7 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			
24	127+69	25.5 RT	R2-1	SPEED LIMIT 25	24	30	5.00	W	2" 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 SIGN 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.

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.

ROADWAY CROWN LINE

TOP OF RAMP

3.0'

6.0'

1.0' WHITE

2.5'

6.0'

1.0'

BOTTOM OF RAMP

*VARIES

WHITE TRIANGLE

*CENTER TEEPEE MARKING ON RAMP

PLAN VIEW

1

TEPEE MARKINGS FOR RAISED INTERSECTION

SCALE: 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: _____

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TOPOGRAPHY	TS	AR
PROFILE	RB	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
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CONTRACTOR							
INSPECTOR							

PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL

CRW

ENGINEERING GROUP, LLC

3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC0882-AK

STATE OF ALASKA

49 TH

ERICA S. JENSEN

CE-12588

REGISTERED PROFESSIONAL ENGINEER

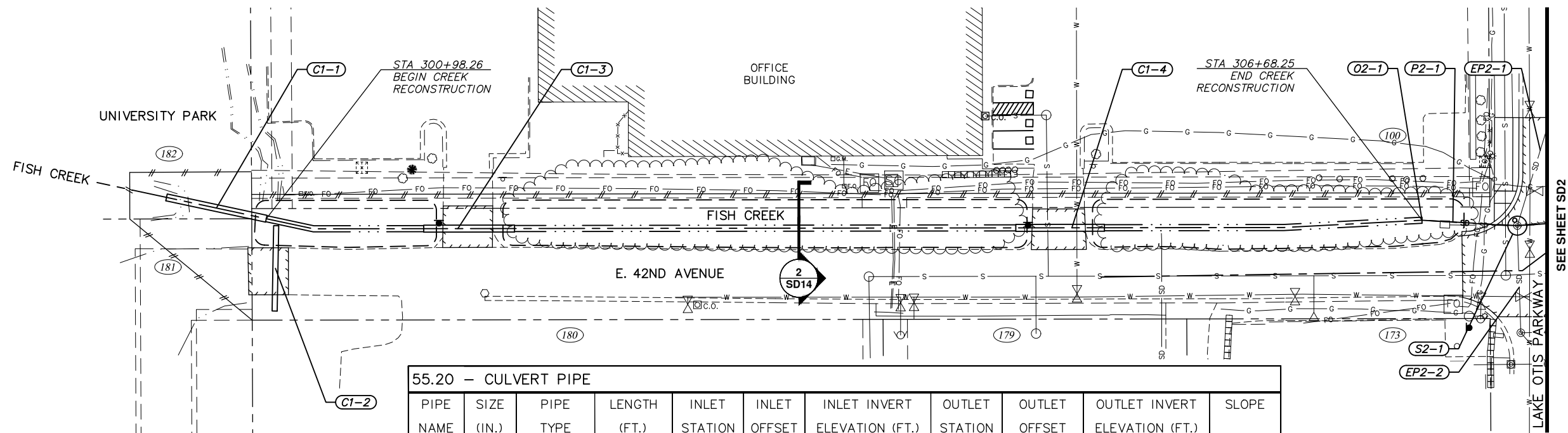
SEAL

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

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

SIGN SUMMARY & STRIPING DETAILS

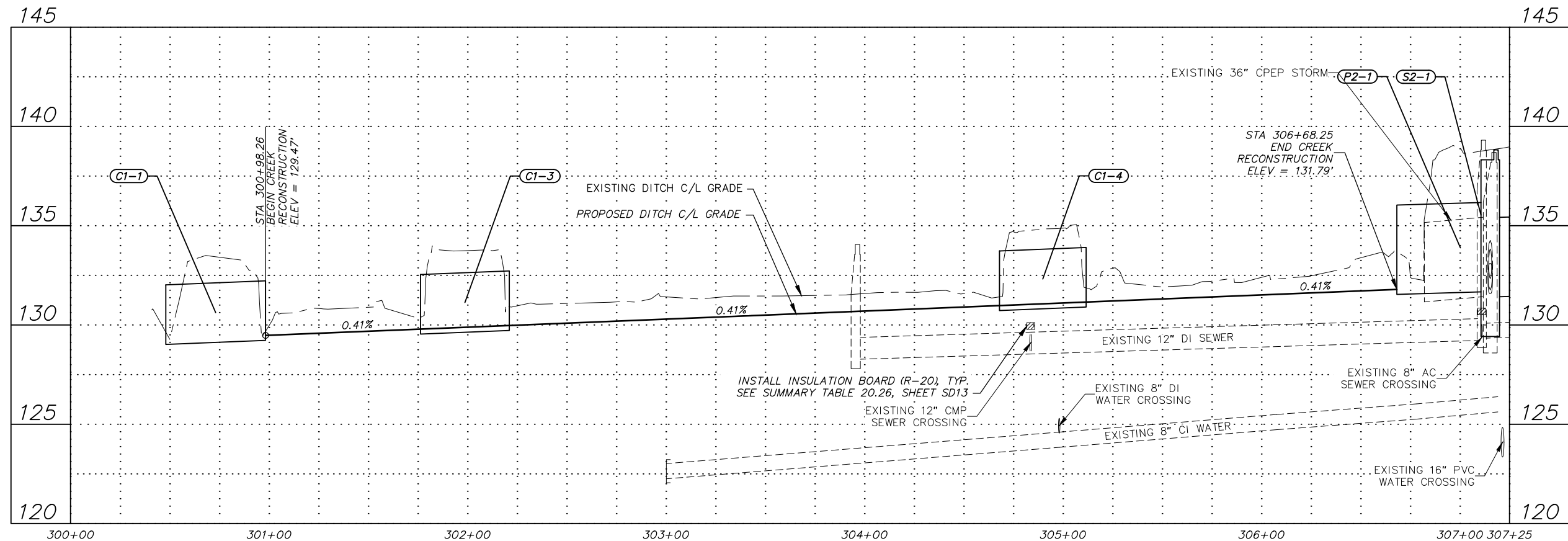
SCALE HOR. N/A VER. N/A GRID SW1733, SW1734, SW1735 DATE AUG 2022 STATUS 65% SHEET S4 of S4



- NOTES:**
1. REFER TO SHEET SD14 FOR CULVERT & CREEK DETAILS.
 2. REFER TO SHEETS SD10-SD12 FOR STORM DRAIN DETAILS.

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*	50.26	300+98.26	CL	129.47	300+48.00	CL	129.27	0.40%
C1-2	30	CPEP, S	42.07	301+11.80	43.63 RT	129.55	301+03.74	2.34 RT	129.15	0.95%
C1-3	40 X 31	PIPE-ARCH*	44.73	302.21.07	CL	129.97	301+76.34	CL	129.79	0.40%
C1-4	40 X 31	PIPE-ARCH*	43.67	305+11.69	CL	131.15	304+68.03	CL	130.98	0.39%

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



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.

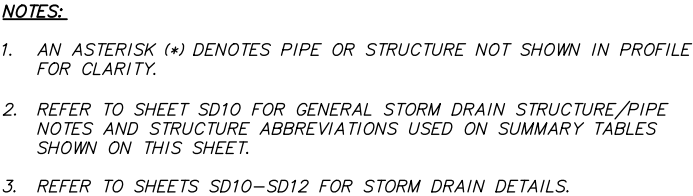
DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

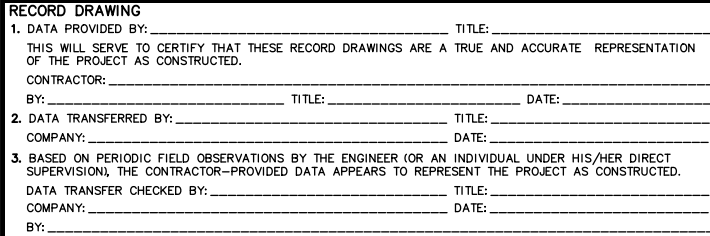
DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

<div>GRAPHIC <div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><div></div><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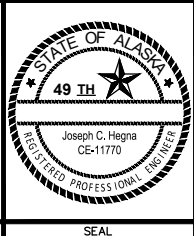
STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
OUT2-1	END SECTION	—	99+72.23	23.09' LT	—	N/A	
S2-1	MH III/CONNECT	MH	100+18.98	19.21' LT	138.65	N/A	CONNECT PIPES EP2-1 & EP2-2
S2-2	MH II	MH	101+12.43	4.00' LT	138.47	N/A	
I2-1*	CB	CI	101+12.43	15.80' RT	138.54	1	
S2-3	MH II	MH	102+23.40	4.00' LT	138.06	N/A	
I2-2	CB (RED)	CI	102+23.40	31.50' LT	136.55	1	SEE DETAIL 1, SHEET SD12
I2-3	CB (RED)	CI	102+23.40	26.00' RT	136.55	1	SEE DETAIL 1, SHEET SD12
S2-4	MH II	MH	102+77.19	CL	137.92	N/A	
I2-4*	CB (RED)	CI	102+77.19	15.50' LT	138.13	1	
S2-5*	CB MH I (RED)	CI	102+77.19	15.50' RT	138.13	1	
S2-6	CB MH I (RED)	CI	102+74.89	26.00' RT	137.10	1	
I2-5	CB	FI	103+31.51	24.69' RT	138.20	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12
S2-7	MH II	MH	103+92.21	CL	138.63	N/A	
I2-6	CB	FI	103+83.33	39.86' LT	138.57	N/A	TOP INTAKE COVER

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P2-1	48	CPEP, S	47.06	S2-1	O2-1	131.92	131.79	0.30%
EP2-1	29x18	CMP	–	–	S2-1	–	131.6±	–
EP2-2	18	CPEP	–	–	S2-1	–	132.3±	–
P2-2	36	CPEP, S	99.06	S2-2	S2-1	132.20	131.92	0.30%
P2-3	12	CPEP, S	19.80	I2-1	S2-2	134.43	133.74	4.66%
P2-4	36	CPEP, S	110.97	S2-3	S2-2	132.52	132.20	0.30%
P2-5	12	CPEP, S	27.50	I2-2	S2-3	133.05	132.98	0.31%
P2-6	12	CPEP, S	30.00	I2-3	S2-3	133.05	132.97	0.32%
P2-7	36	CPEP, S	53.94	S2-4	S2-3	132.67	132.52	0.31%
P2-8	12	CPEP, S	15.50	I2-4	S2-4	134.63	134.59	0.35%
P2-9	12	CPEP, S	15.50	S2-5	S2-4	134.63	134.59	0.35%
P2-10	12	CPEP, S	10.75	S2-6	S2-5	134.70	134.68	0.34%
P2-11	12	CPEP, S	56.62	I2-5	S2-6	134.91	134.75	0.30%
P2-12	36	CPEP, S	115.02	S2-7	S2-4	133.00	132.67	0.30%
P2-13	12	CPEP, S	40.83	I2-6	S2-7	134.64	134.28	1.00%

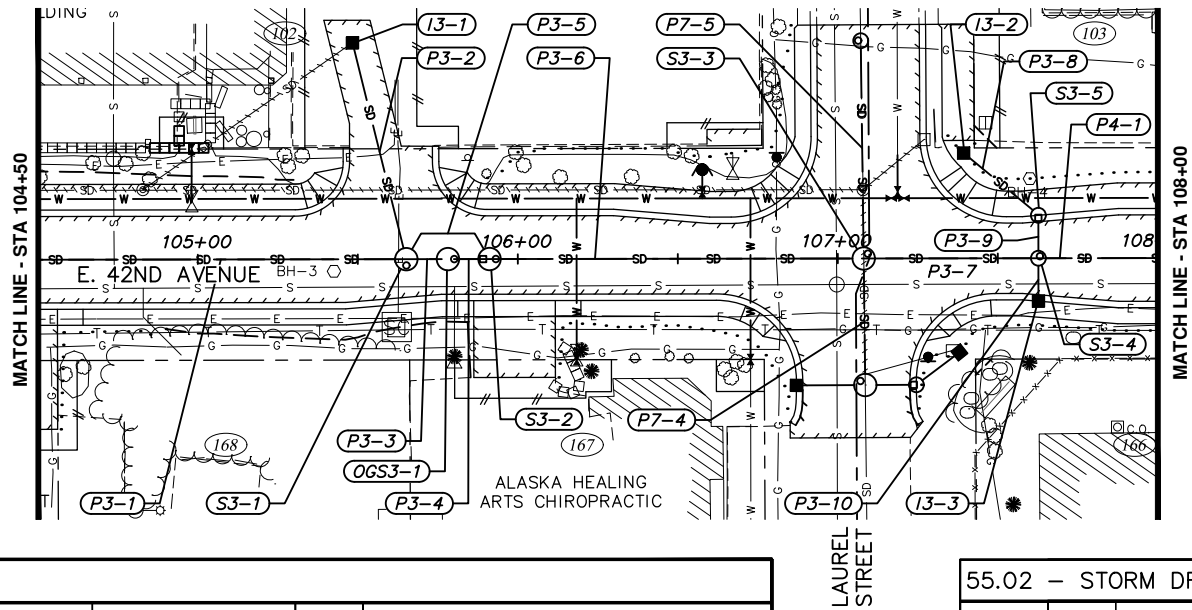


DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK
PLAN CHECK		

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



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 AUG 2022 STATUS 65%	SD2 of SD14



NOTES:

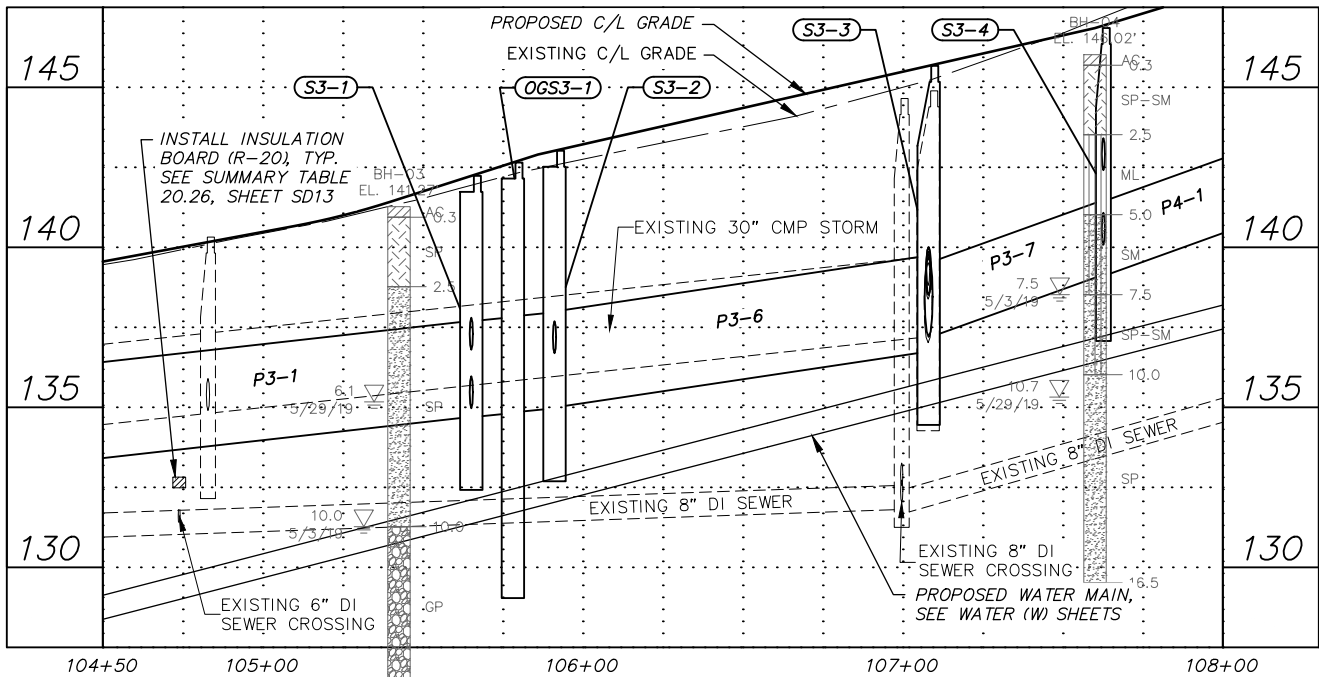
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
3. REFER TO SHEETS SD10-SD12 FOR STORM DRAIN DETAILS.
4. REFER TO SHEET SD11 FOR OGS AND BYPASS STRUCTURE DETAILS.
5. CPEP FITTINGS I.A.W. MASS SECTION 55.002 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 TELEWISE PIPE.

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+65.16	CL	142.15	N/A	
I3-1	CB	FI	105+48.44	67.68' LT	141.45	N/A	TOP INTAKE COVER
OGS3-1	OGS	MH	105+78.16	CL	142.67	N/A	SEE DETAIL 3, SHEET SD11
S3-2	BYPASS, MH II	MH	105+91.16	CL	142.93	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+39.36	32.90' LT	144.90	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	172.95	S3-1	S2-7	134.92	133.25	1.00%
P3-2	12	CPEP, S	69.71	I3-1	S3-1	137.45	136.80	1.00%
P3-3	30	CPEP, S	13.00	OGS3-1	S3-1	135.04	134.97	1.00%
P3-4	30	CPEP, S	13.00	S3-2	OGS3-1	135.19	135.12	1.00%
P3-5	12	CPEP, S	35.24	S3-2	S3-1	136.69	134.97	5.88%
P3-6	30	CPEP, S	116.93	S3-3	S3-2	136.95	135.29	1.50%
P3-7	24	CPEP, S	54.60	S3-4	S3-3	139.24	137.45	3.61%
P3-8	12	CPEP, S	30.39	I3-2	S3-5	140.90	140.37	2.01%
P3-9	12	CPEP, S	13.42	S3-5	S3-4	140.27	140.08	2.02%
P3-10	12	CPEP, S	13.42	I3-3	S3-4	142.60	142.41	2.02%



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.

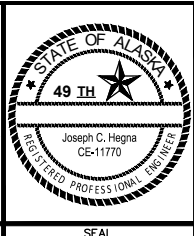
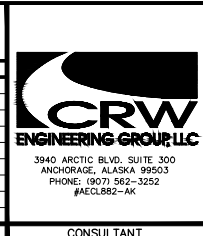
DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

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

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47				
STAKING	CB 7B	See MOA Benchmark Book, Page D-18	161.20				
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							
GRAPHIC SCALE 60 30 0 30 60							
PLAN CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS CONSULTANT SEAL							



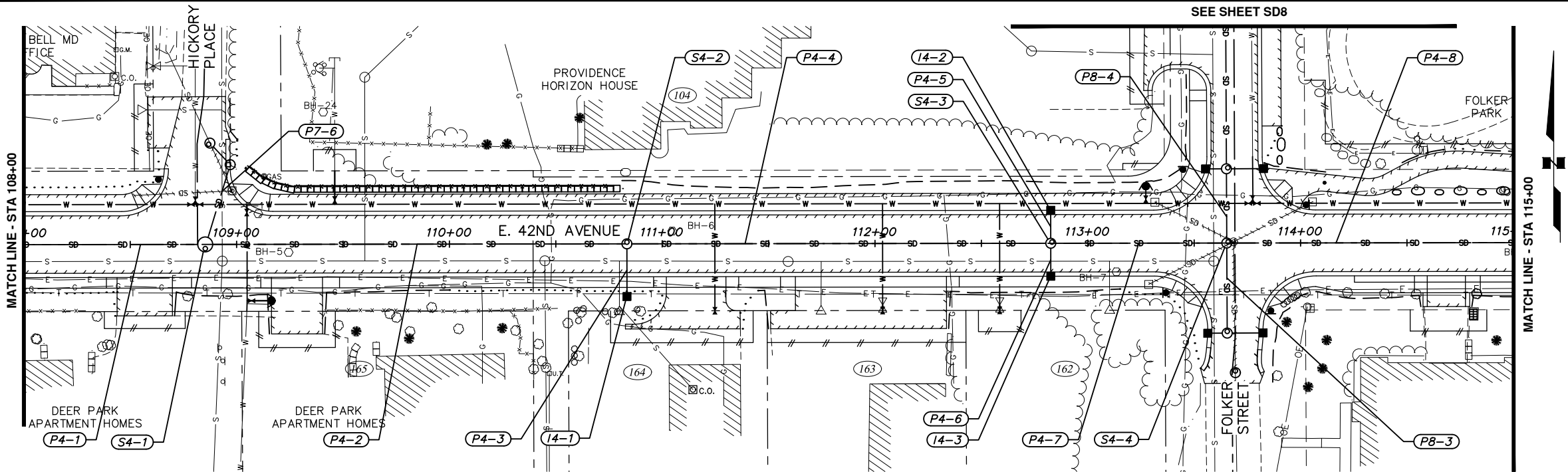
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

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

STORM DRAIN PLAN & PROFILE

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

SCALE HOR. 1"=30' VER. 1"=3' GRID SW1733, SW1734, SW1735 DATE AUG 2022 STATUS 65% SHEET SD3 of SD14



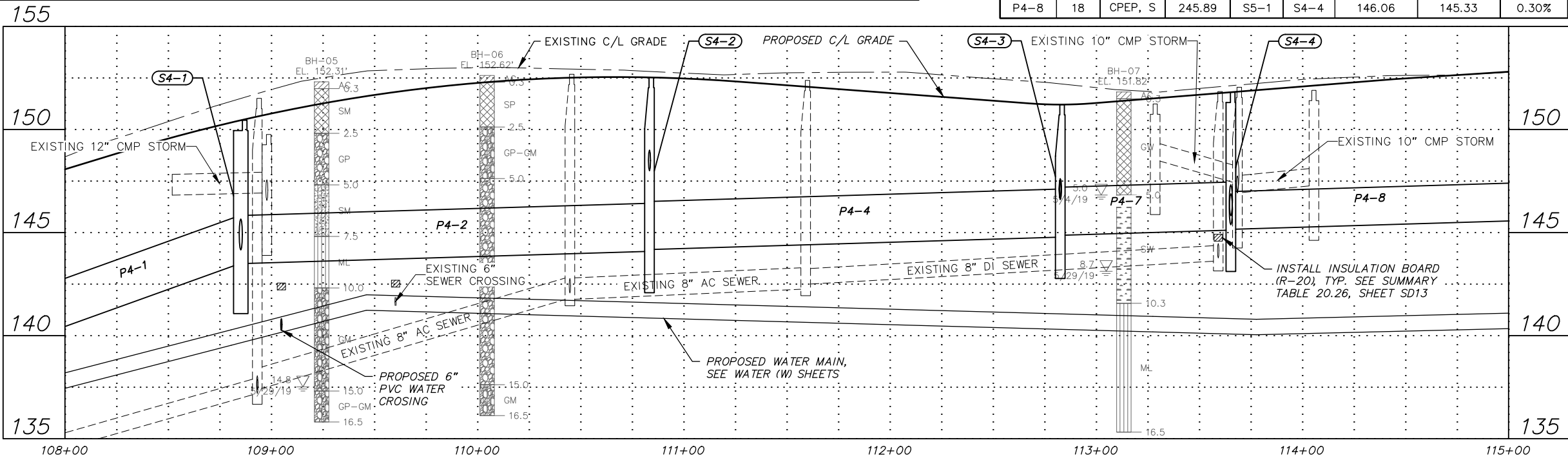
- NOTES:
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
 2. REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
 3. REFER TO SHEETS SD10-SD12 FOR STORM DRAIN DETAILS.

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+83.42	CL	152.47	N/A	
I4-1	CB	FI	110+83.42	24.75' RT	152.42	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	143.57	139.34	3.60%
P4-2	24	CPEP, S	198.17	S4-2	S4-1	144.25	143.67	0.30%
P4-3	12	CPEP, S	24.75	I4-1	S4-2	148.42	148.00	2.02%
P4-4	24	CPEP, S	199.18	S4-3	S4-2	144.94	144.35	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	145.28	145.04	0.30%
P4-8	18	CPEP, S	245.89	S5-1	S4-4	146.06	145.33	0.30%



RECORD DRAWING

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COMPANY: _____ DATE: _____

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DATA TRANSFER CHECKED BY: _____ TITLE: _____

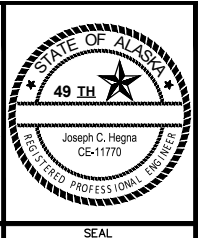
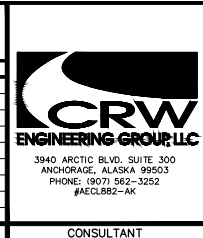
COMPANY: _____ DATE: _____

BY: _____

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

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

PLAN CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS CONSULTANT SEAL



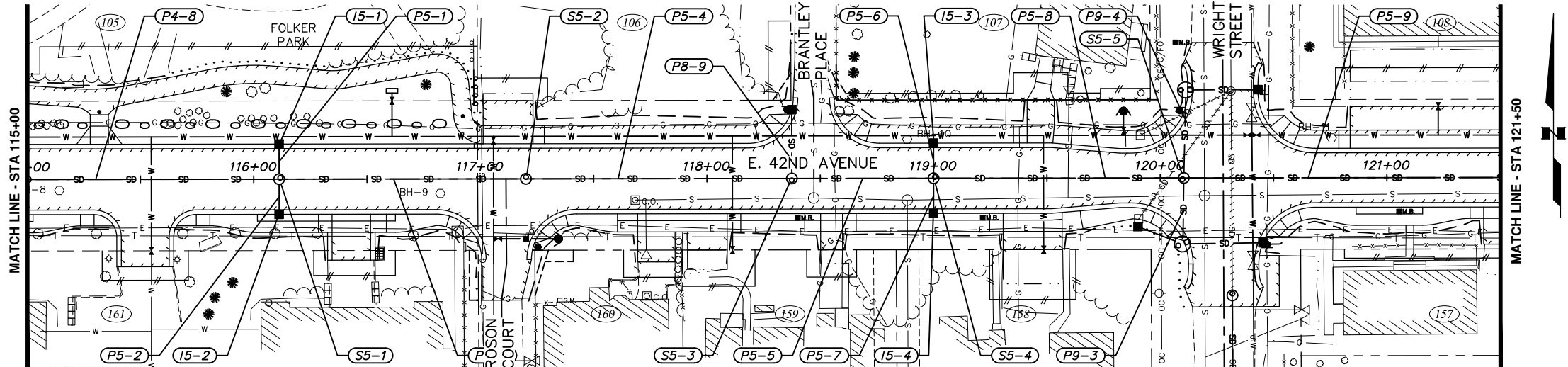
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

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

STORM DRAIN PLAN & PROFILE

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

SCALE HOR. 1"=30' VER. 1"=3' GRID SW733, SW734, SW735 DATE AUG 2022 STATUS 65% SHEET SD4 of SD14



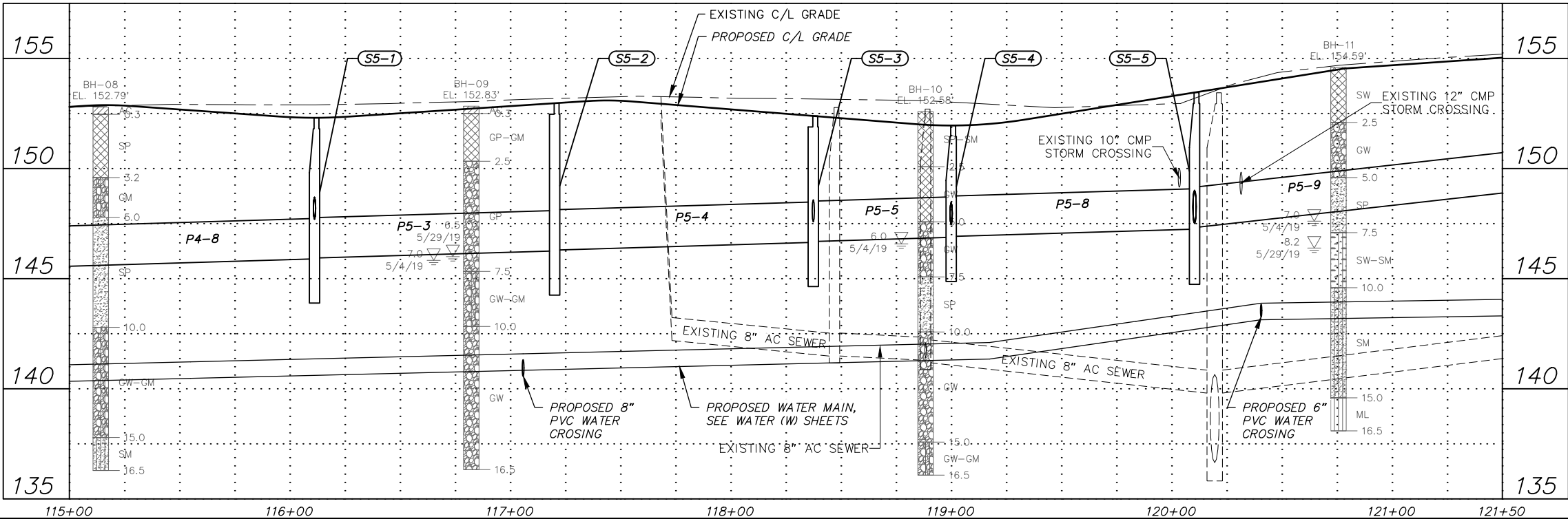
- NOTES:
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
 2. REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
 3. REFER TO SHEETS SD10-SD12 FOR STORM DRAIN DETAILS.

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	PIPE LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P5-1	12	CPEP, S	15.50	S4-1	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	146.42	146.11	0.30%
P5-4	18	CPEP, S	117.32	S5-3	S5-2	146.81	146.47	0.30%
P5-5	18	CPEP, S	62.55	S5-4	S5-3	147.04	146.86	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	147.46	1.04%
P5-8	18	CPEP, S	110.39	S5-5	S5-4	147.41	147.09	0.30%
P5-9	18	CPEP, S	188.49	S6-1	S5-5	149.58	147.51	1.12%



RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

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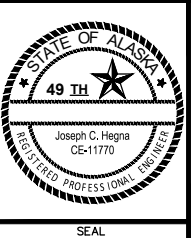
DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

BY: _____

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

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47				
STAKING	CB 7B	See MOA Benchmark Book, Page D-18	161.20				
ASBUILT							
CONTRACTOR							
INSPECTOR							
PLAN CHECK							
CONSTRUCTION RECORD							
VERTICAL DATUM							
REVISIONS							
CONSULTANT							
SEAL							



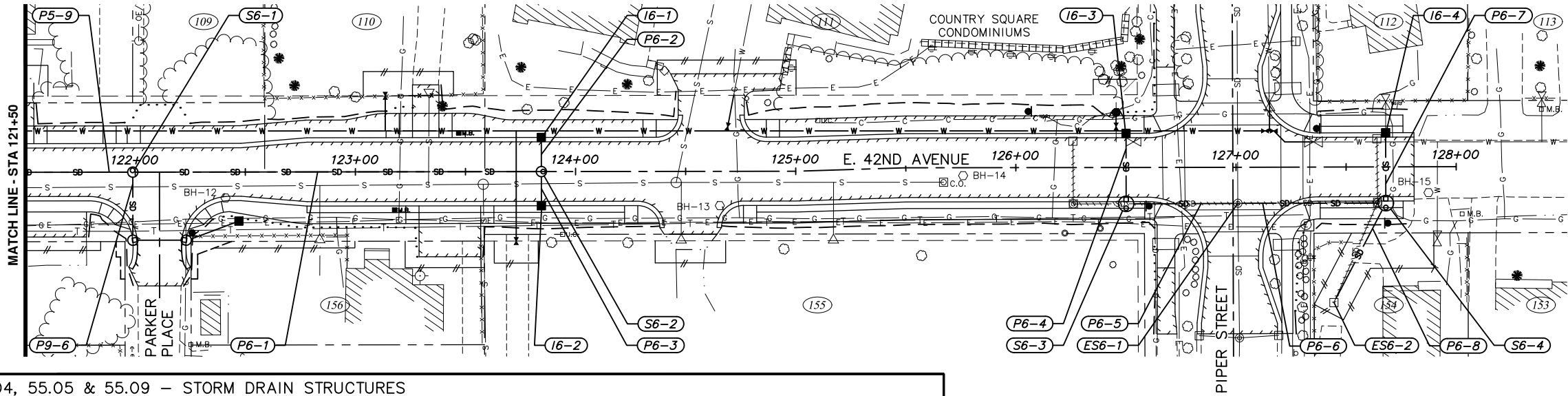
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

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

STORM DRAIN PLAN & PROFILE

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

SCALE HOR. 1"=30' VER. 1"=3' GRID SW733, SW734, SW735 DATE AUG 2022 STATUS 65% SHEET SD5 of SD14



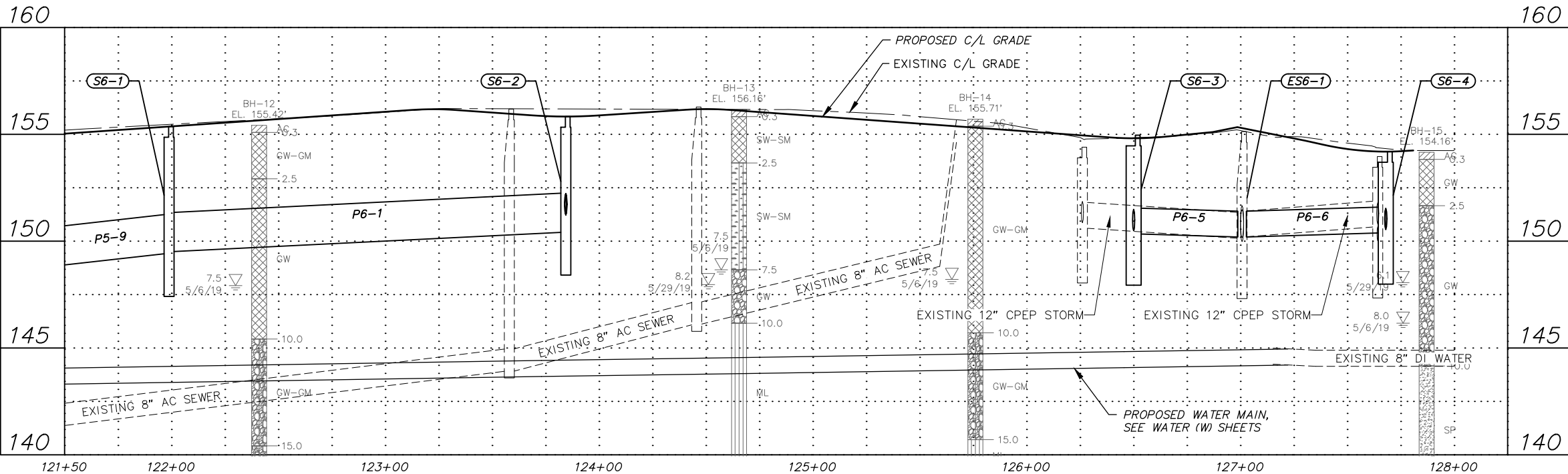
- NOTES:
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
 2. REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
 3. REFER TO SHEETS SD10-SD12 FOR STORM DRAIN DETAILS.

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+84.46	CL	155.79	N/A	
I6-1	CB	CI	123+84.46	15.50' LT	155.96	1	
I6-2	CB	CI	123+84.46	15.50' RT	155.96	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 TO MH.
S6-4	CB MH II	CI	127+68.00	16.45' RT	154.09	1	
I6-4	CB	CI	127+68.00	15.50' LT	154.09	1	
ES6-2	CONNECT	FI	127+44.33	61.44' RT	±154.9		EXISTING CB MH WITH BEEHIVE INLET. CONNECT PIPE P6-8 TO STRUCTURE.

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	185.58	S6-2	S6-1	150.58	149.68	0.50%
P6-2	12	CPEP, S	15.50	I6-1	S6-2	151.46	151.23	2.00%
P6-3	12	CPEP, S	15.50	I6-2	S6-2	151.46	151.23	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	67.23	S6-4	ES6-1	150.49	150.30	0.31%
P6-7	12	CPEP, S	31.95	I6-4	S6-4	150.62	150.54	0.30%
P6-8	10	CPEP, S	50.84	ES6-2	S6-4	151.76	150.66	2.40%



RECORD DRAWING

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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
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TELEPHONE	TS	AR
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DESIGN	RB	EJ
QUANTITIES	RB	JK
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FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47				
STAKING	CB 7B	See MOA Benchmark Book, Page D-18	161.20				
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							
REVISIONS							
CONSULTANT							
SEAL							



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06 42ND AVENUE UPGRADE – PHASE 1 SCHED B

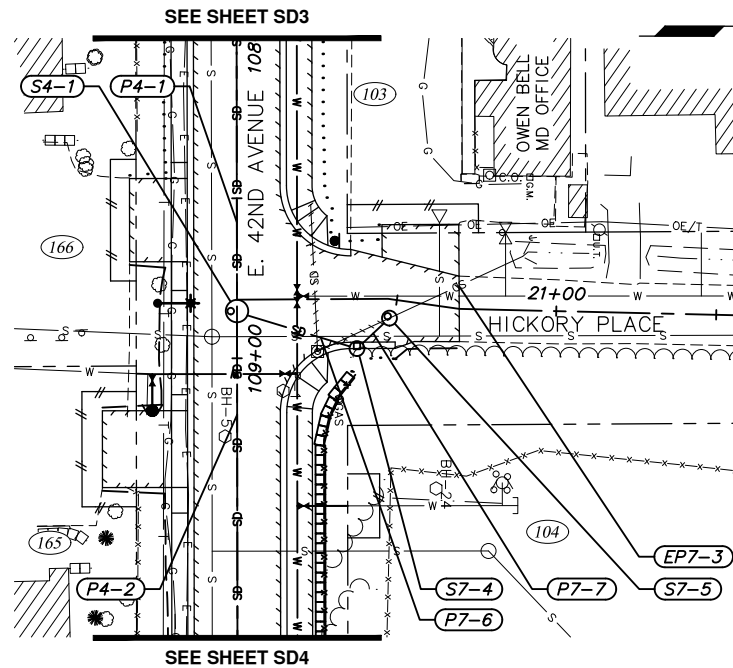
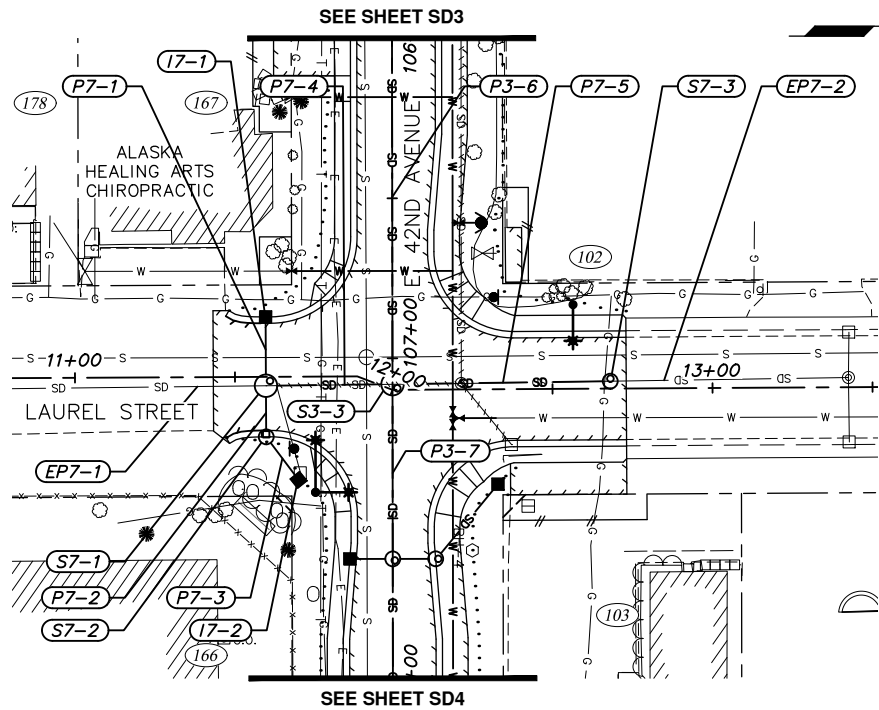
LAKE OTIS PARKWAY TO PIPER STREET

STORM DRAIN PLAN & PROFILE

42ND AVENUE STA 121+50 TO EOP

SCALE HOR. 1"=30' VER. 1"=3' GRID SW733, SW734, SW735 DATE AUG 2022 STATUS 65% SHEET SD6 of SD14

File: I:\data\10142.00 42nd Avenue Upgrade\00 CADD\01 Phase 1\10142.00 Storm Drain Sidestreets-Plan & Profile_Phase 1.dwg



NOTES:

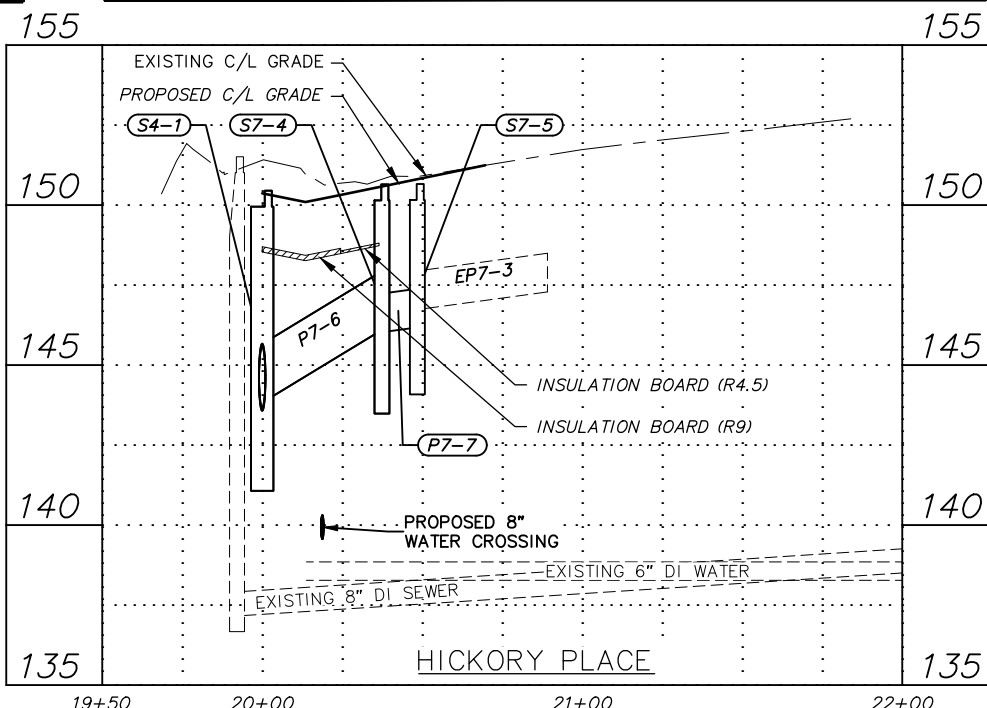
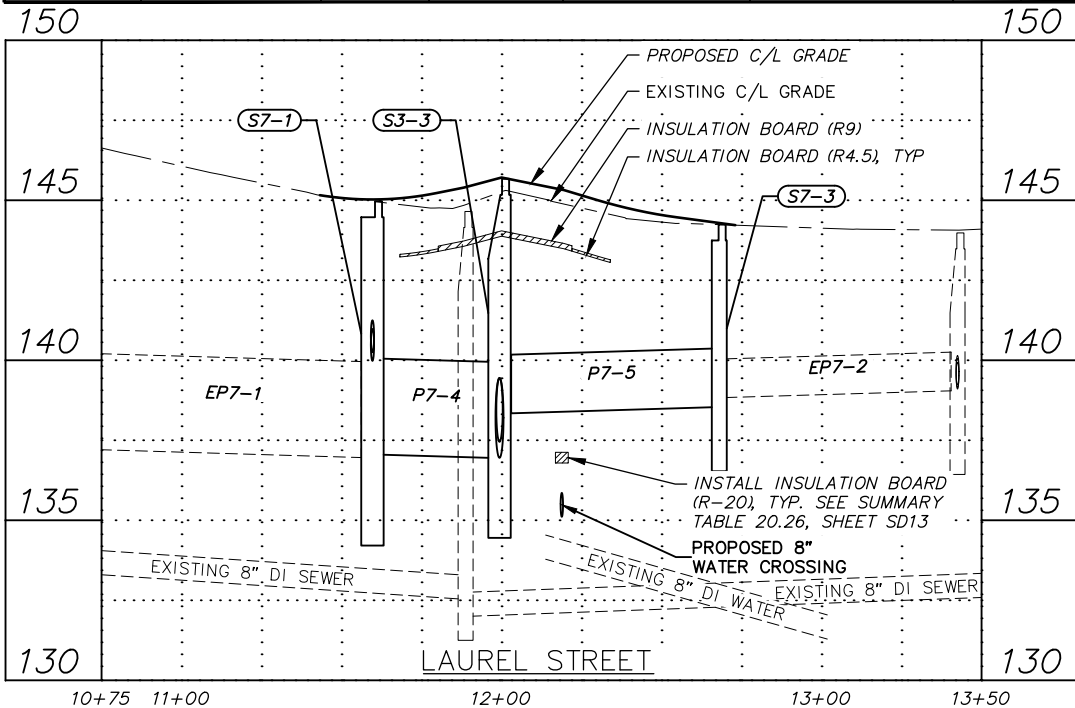
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3. REFER TO SHEETS SD10-SD12 FOR STORM DRAIN DETAILS.

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	144.96	N/A	CONNECT PIPE EP7-1
I7-1	CB	CI	11+59.66	18.75' LT	145.09	1	
S7-2	CB MH I	CI	11+59.66	18.75' RT	145.09	1	
I7-2	CB	FI	11+69.71	32.24' RT	144.56	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12
S7-3	MH I	MH	12+68.04	2.31' LT	144.15	N/A	CONNECT PIPE EP7-2
S7-4	CB MH I	CI	20+37.41	15.50' RT	150.65	1	
S7-5	MH I/CONNECT	MH	20+48.48	5.93' RT	150.62	N/A	CONNECT PIPE EP7-2

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	—	137.4±	—
P7-1	12	CPEP, S	21.53	I7-1	S7-1	140.59	140.25	2.06%
P7-2	12	CPEP, S	15.97	S7-2	S7-1	140.20	139.98	2.01%
P7-3	12	CPEP, S	16.82	I7-2	S7-2	140.56	140.30	2.03%
P7-4	30	CPEP, S	39.55	S7-1	S3-3	137.30	137.20	0.30%
P7-5	18	CPEP, S	68.04	S7-3	S3-3	138.70	138.51	0.30%
EP7-2	12	CMP	—	—	S7-3	—	138.9±	—



RECORD DRAWING

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CONTRACTOR: _____

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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	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

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

PLAN CHECK

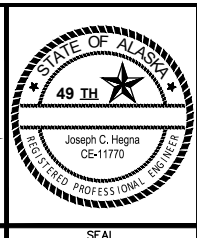
CONSTRUCTION RECORD

VERTICAL DATUM

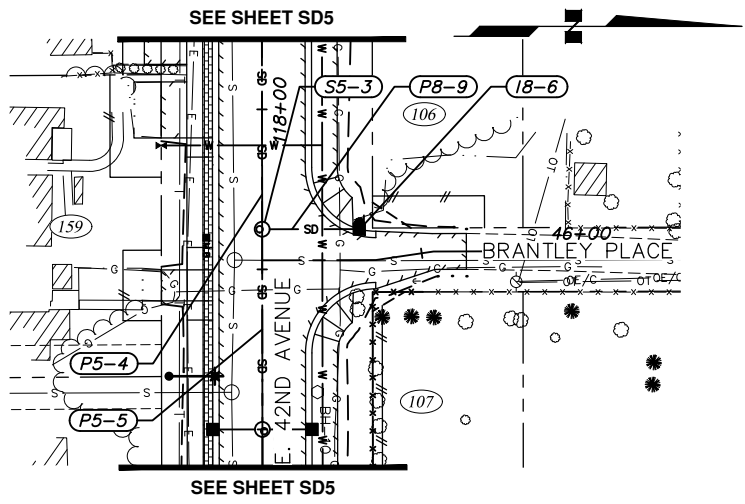
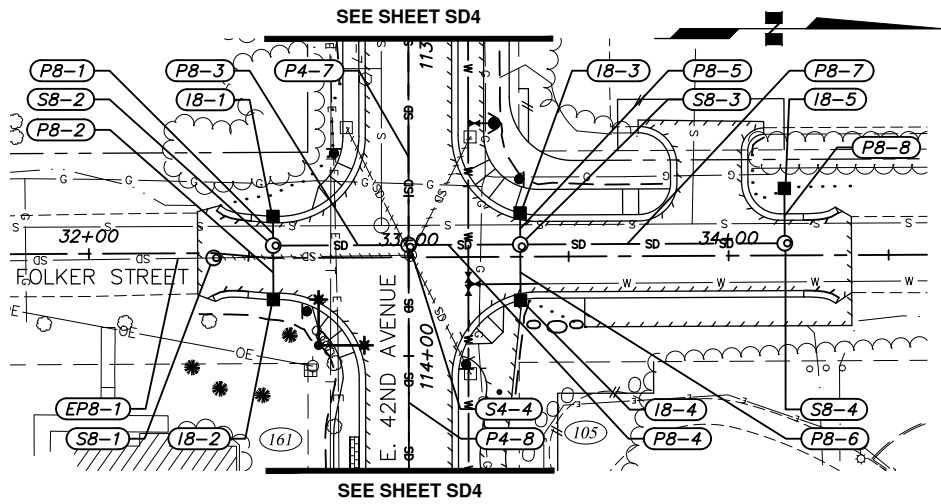
REVISIONS

CONSULTANT

SEAL



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 SW733, SW734, SW735 DATE AUG 2022	STATUS 65% SHEET SD7 of SD14



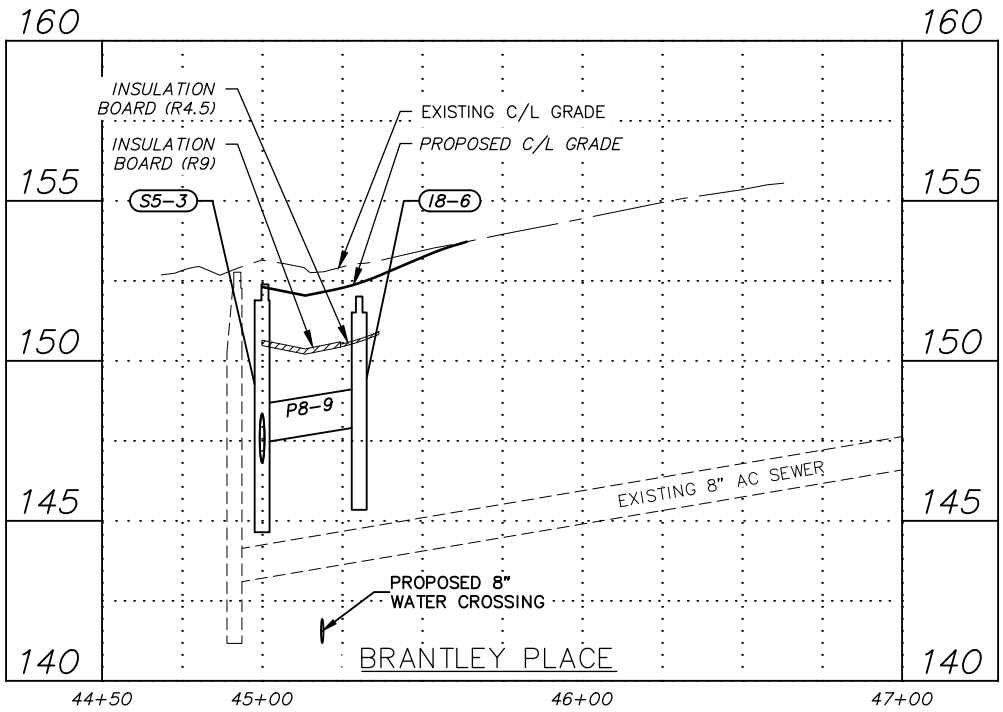
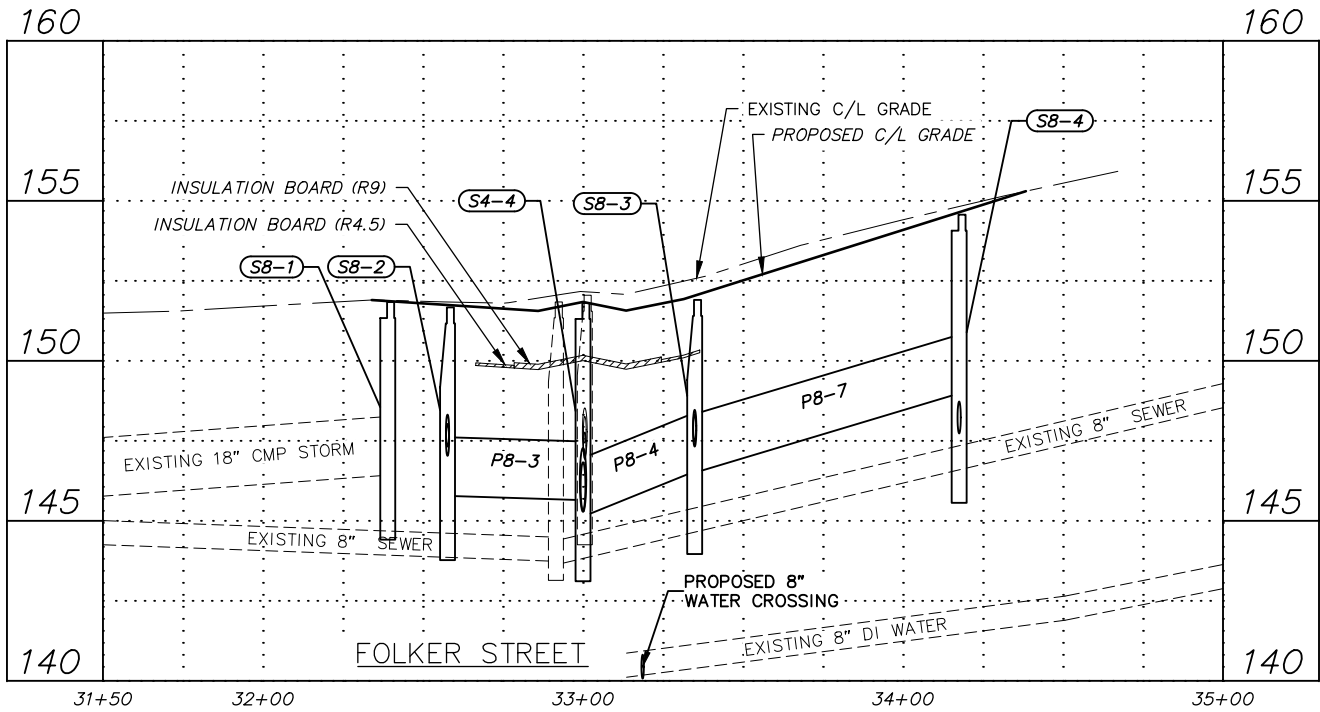
- NOTES:
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
 2. REFER TO SHEET SD10 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
 3. REFER TO SHEETS SD10-SD12 FOR STORM DRAIN DETAILS.

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+39.00	1.49' RT	151.88	N/A	CONNECT PIPE EP8-1
S8-2	MH I	MH	32+57.67	3.86' LT	151.62	N/A	
I8-1	CB	CI	32+57.67	13.00' LT	151.93	1	
I8-2	CB	CI	32+57.67	13.00' RT	151.92	1	
S8-3	MH I	MH	33+34.91	3.84' LT	151.95	N/A	
I8-3	CB	CI	33+34.91	13.67' LT	??	1	
I8-4	CB	CI	33+34.91	13.60' RT	152.09	1	
S8-4	MH I	MH	34+17.55	3.81' LT	154.55	N/A	
I8-5	CB	FI	34+17.52	20.94' LT	152.00	N/A	BEEHIVE INLET, SEE DETAIL 3, SHEET SD12
I8-6	CB	CI	45+30.36	9.68' LT	152.01	1A	

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	147.43	147.32	2.14%
P8-2	12	CPEP, S	16.85	I8-2	S8-2	147.29	147.03	2.02%
P8-3	18	CPEP, S	42.34	S8-2	S4-4	145.94	145.82	0.31%
P8-4	18	CPEP, S	34.89	S8-3	S4-4	146.63	145.38	4.05%
P8-5	12	CPEP, S	9.83	I8-3	S8-3	147.59	147.47	2.06%
P8-6	12	CPEP, S	17.44	I8-4	S8-3	147.59	147.32	2.01%
P8-7	18	CPEP, S	82.65	S8-4	S8-3	149.09	146.73	3.00%
P8-8	12	CPEP, S	17.13	I8-5	S8-4	148.00	147.73	2.06%



RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

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

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

PLAN CHECK

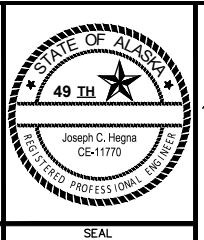
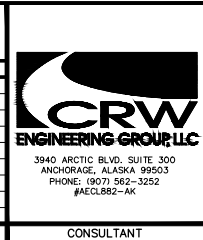
CONSTRUCTION RECORD

VERTICAL DATUM

REVISIONS

CONSULTANT

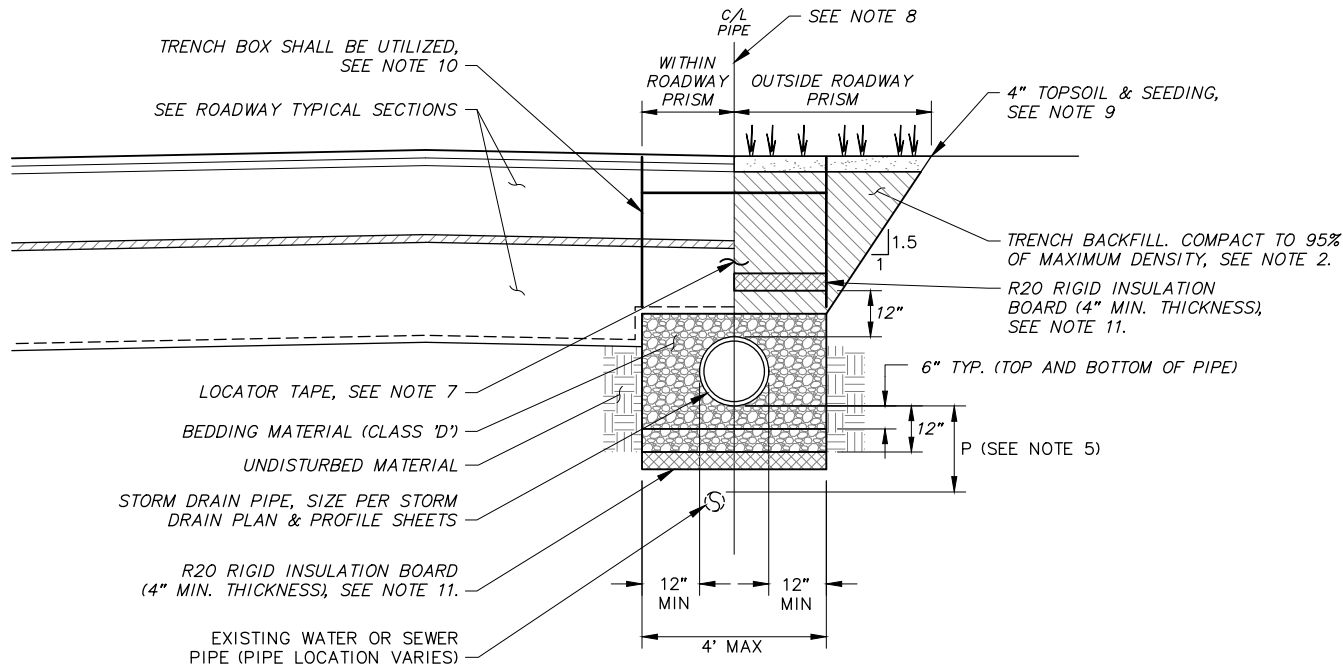
SEAL



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
18-06	42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	SCHED B	
STORM DRAIN PLAN & PROFILE			
FOLKER STREET & BRANTLEY PLACE			
SCALE	HOR. 1"=30' VER. 1"=3'	GRID SW733, SW734, SW735 DATE AUG 2022 STATUS 65%	SD8 of SD14



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	SD9 of SD14
		DATE AUG 2022	
		SHEET	



1 **TYPICAL STORM DRAIN TRENCH SECTION**
SCALE: NTS

STORM DRAIN & SUBDRAIN TRENCH SECTION NOTES:

- 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.
- TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE III CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE III CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH TYPE II CLASSIFIED MATERIAL.
- REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
- 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.
- WATER LINES CROSSING STORM DRAIN LINES REQUIRE A MINIMUM VERTICAL SEPARATION OF THREE (3) FEET. INSTALL R20 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.
- WHERE WATER AND STORM DRAIN MAINS CROSS, STORM DRAIN MAIN JOINTS SHALL BE INSTALLED AT LEAST 9 FEET FROM EXISTING WATER MAIN JOINTS.
- 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.
- LOCATION OF STORM DRAIN VARIES WITHIN ROADWAY AND OUTSIDE OF ROADWAY PRISM. INSTALL STORM DRAIN AS SHOWN ON STORM DRAIN PLAN & PROFILE SHEETS.
- PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS.
- TRENCH BOX SHALL BE UTILIZED TO MINIMIZE TRENCH WIDTH AND REDUCE IMPACTS TO ADJACENT PROPERTIES AND RE-VEGETATION. CONTRACTOR SHALL TAKE EXTRA PRECAUTIONS TO AVOID IMPACTS TO TREE PROTECTION ZONES.
- INSTALL R20 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:

- 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
- 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.
- UNLESS OTHERWISE NOTED ALL STORM DRAIN MAIN PIPE SHALL BE CPEP, TYPE S.
- 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

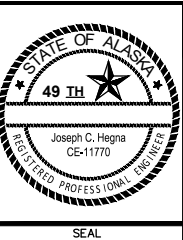
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CONTRACTOR: _____ DATE: _____
BY: _____

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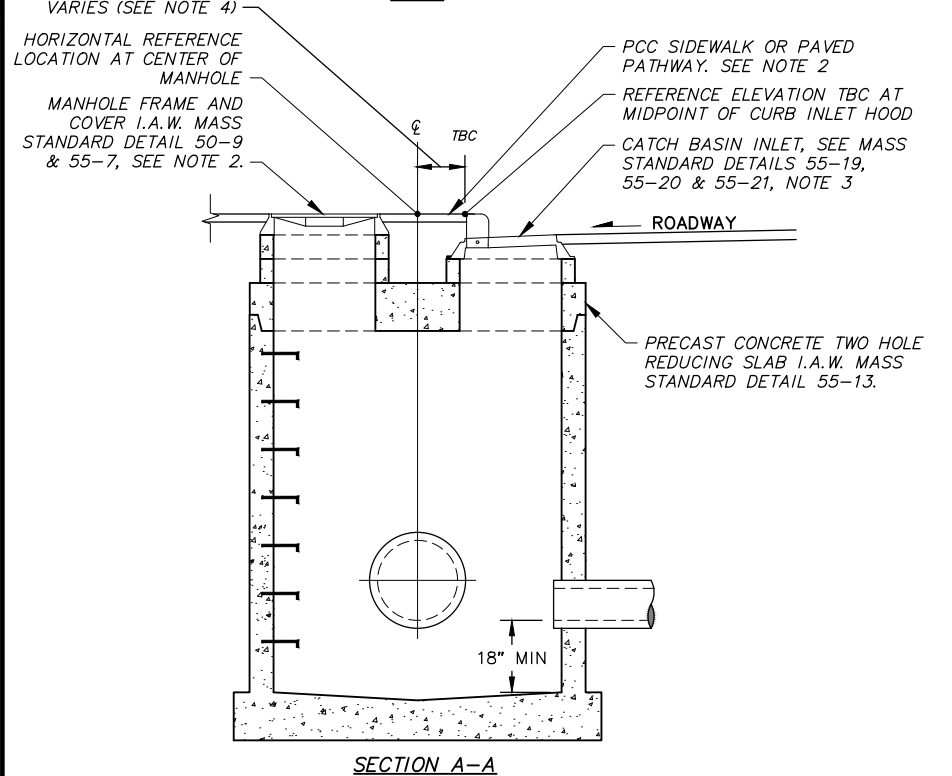
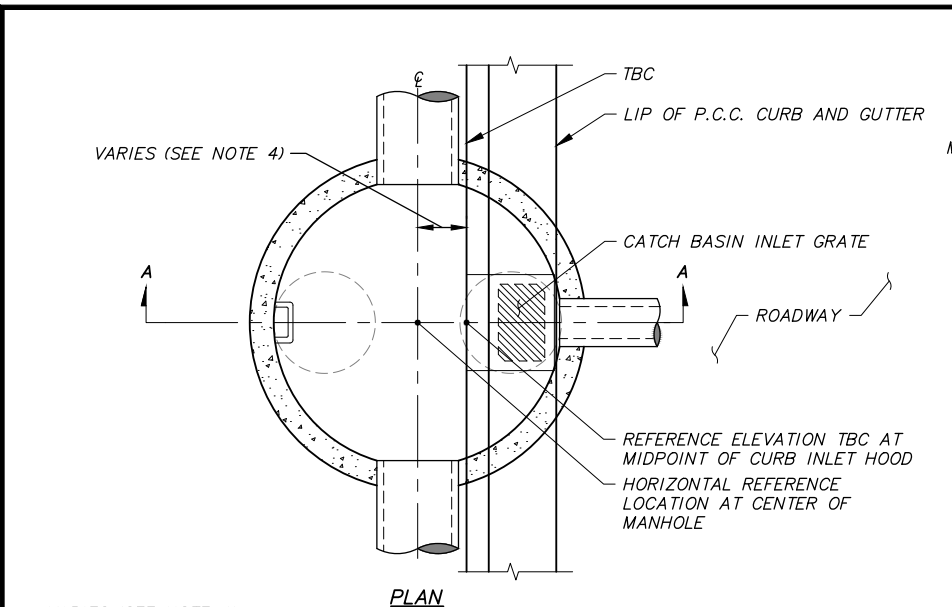
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TOPOGRAPHY	TS	AR
PROFILE	RB	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

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



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 AUG 2022 STATUS 65%	SD10 of SD14 SHEET

File: I:\data\10142.00 42nd Avenue Upgrade\00 CADD\01 Phase 1\10142.00 Storm Drain Details_Phase 1.dwg



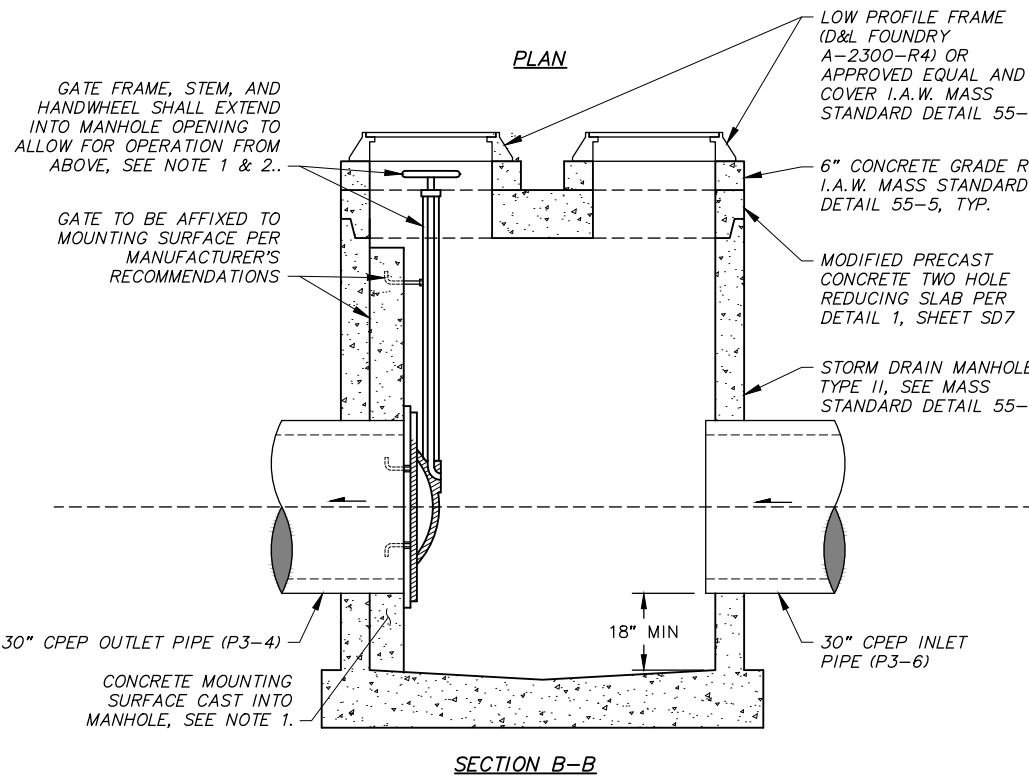
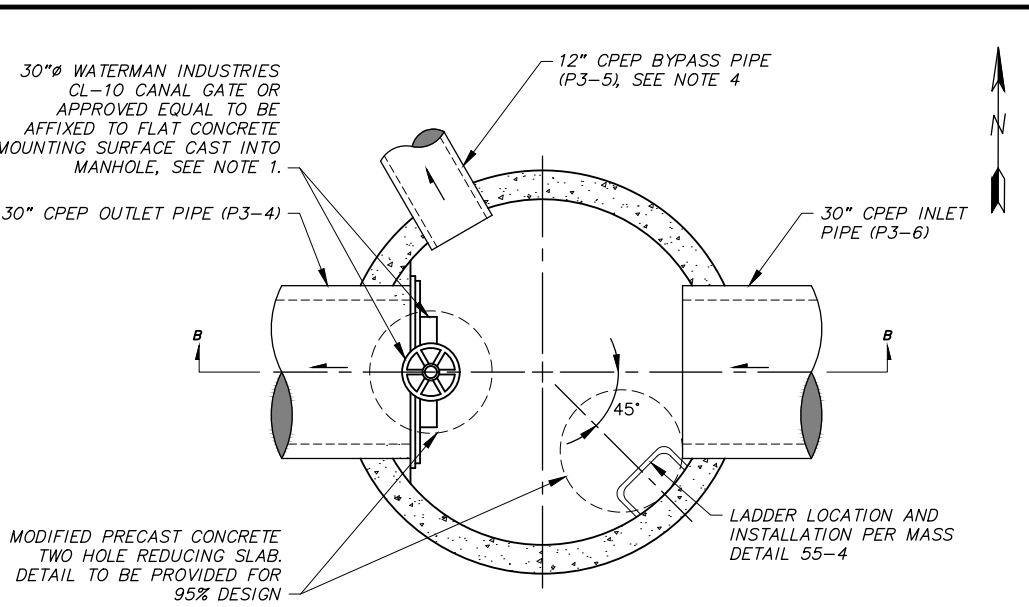
TYPE II CATCH BASIN MANHOLE NOTES

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



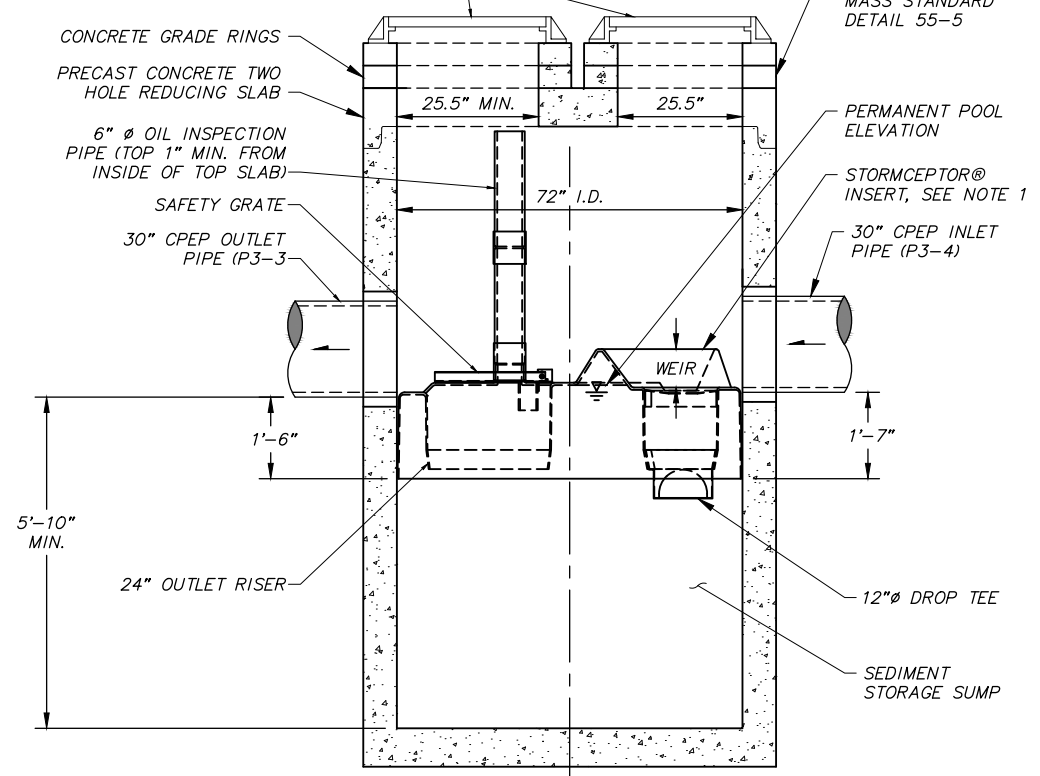
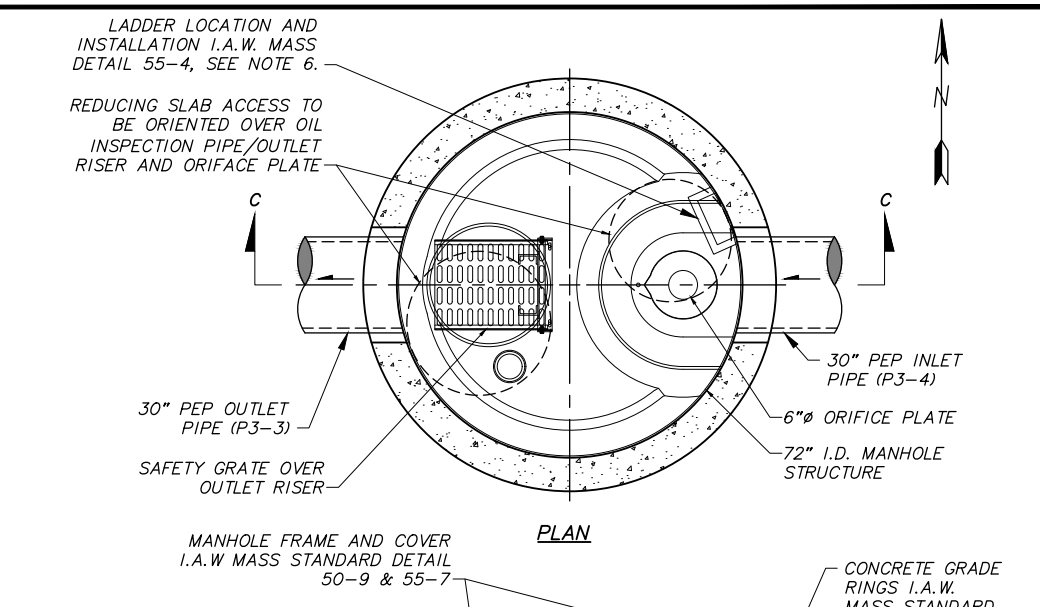
BYPASS MANHOLE NOTES

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



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

RECORD DRAWING	
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COMPANY: _____	TITLE: _____ DATE: _____
BY: _____	DATE: _____

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

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

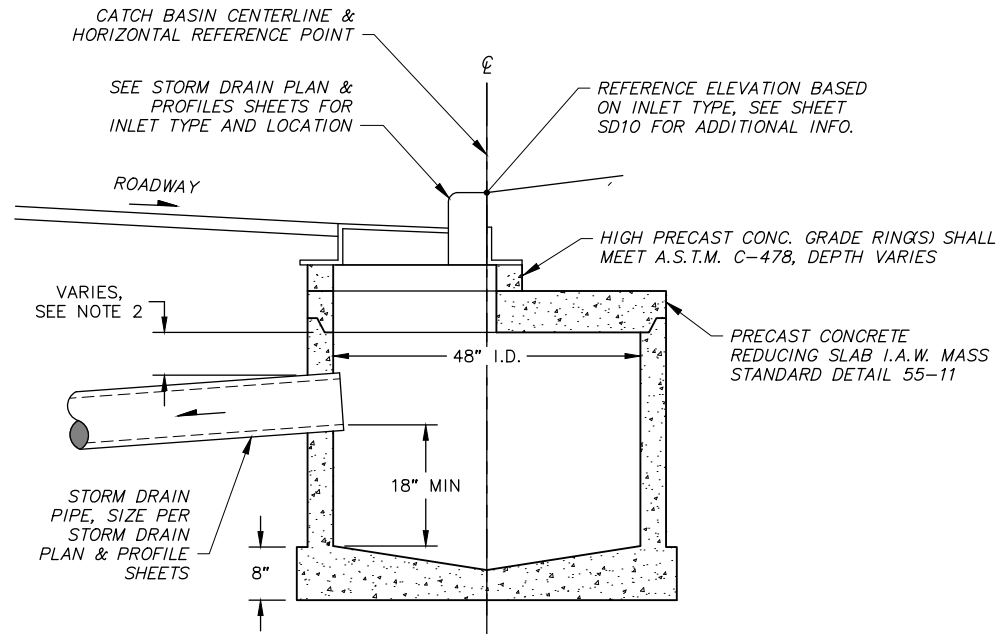
CRW ENGINEERING GROUP, LLC 3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECCL882-AK

STATE OF ALASKA 49 TH Joseph C. Hegna CE-11770 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
STORM DRAIN DETAILS	
SCALE: HOR. NTS VER. NTS	GRID SW733, SW734, SW735 DATE AUG 2022 STATUS 65%
SD11 of SD14	SHEET

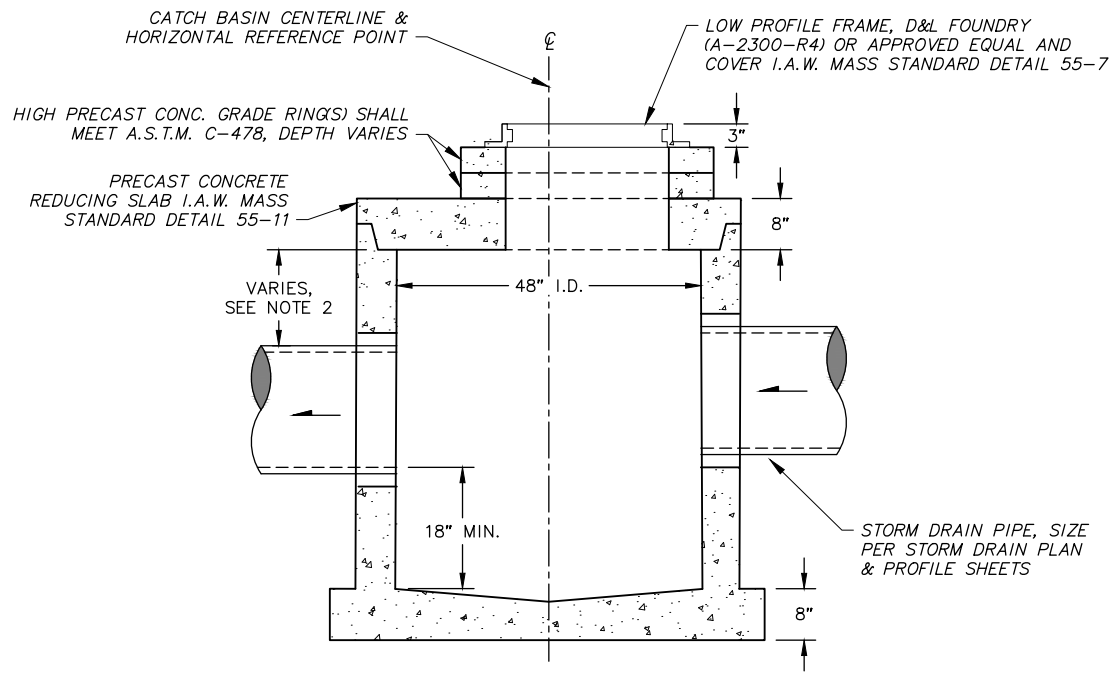
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1

REDUCED HEIGHT CATCH BASIN

SCALE: NTS



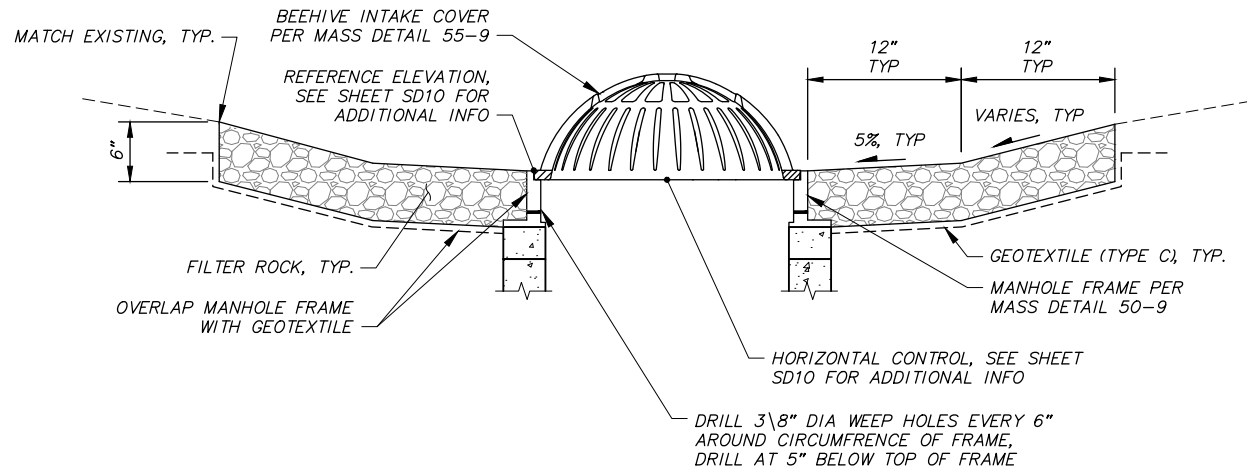
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REDUCED HEIGHT (TYPE I) MANHOLE/CATCH BASIN

SCALE: NTS

REDUCED HEIGHT STRUCTURE NOTES

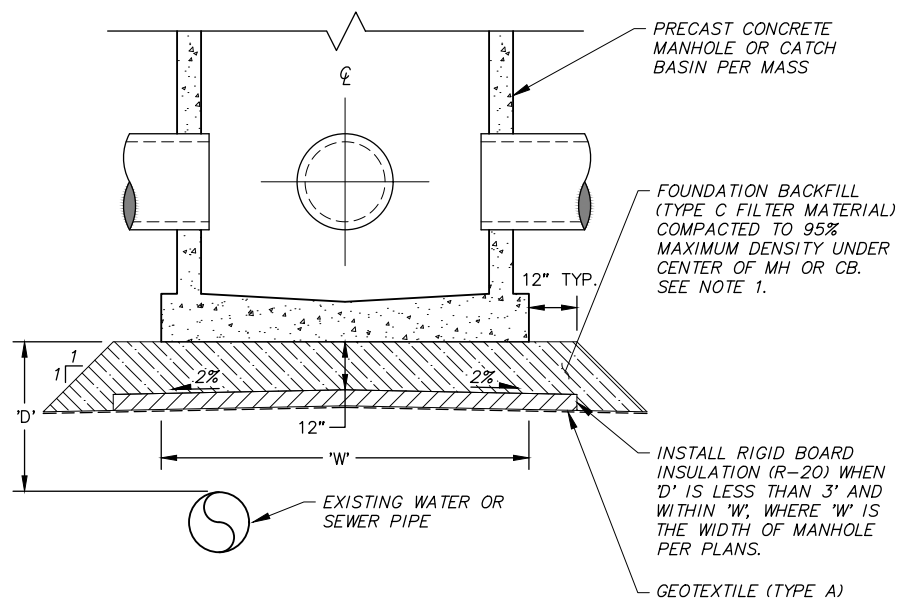
- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS) AS CURRENTLY AMENDED AND AS MODIFIED ON THESE DETAILS.
- BASE SECTION HEIGHT BETWEEN TOP OF PIPE AND REDUCING SLAB SHALL BE REDUCED AS NECESSARY TO FACILITATE THE CONSTRUCTION OF THE STORM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



3

FIELD INLET DETAIL

SCALE: NTS



4

FOUNDATION BACKFILL & STORM DRAIN STRUCTURE INSULATION DETAIL

SCALE: NTS

FOUNDATION BACKFILL & STORM DRAIN STRUCTURE INSULATION NOTES

- INSTALL FOUNDATION BACKFILL (TYPE C FILTER MATERIAL) AS DIRECTED BY ENGINEER OR WHERE INSULATION IS REQUIRED. PAYMENT FOR GEOTEXTILE SHALL BE INCIDENTAL TO PAY ITEM 20.19 FOUNDATION BACKFILL (TYPE C FILTER MATERIAL).

RECORD DRAWING	
1. DATA PROVIDED BY:	TITLE:
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DATA	DRAWN BY	CHECKED BY
BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	EJ
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GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
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FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
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PLAN CHECK							
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CONSULTANT							
SEAL							

CRW ENGINEERING GROUP, LLC
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PHONE: (907) 562-3252
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STATE OF ALASKA
49 TH
Joseph C. Hegna
CE-11770
REGISTERED PROFESSIONAL ENGINEER

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

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT	
18-06	SCHED B
STORM DRAIN DETAILS	
SCALE HOR. NTS VER. NTS	SD12 of SD14
GRID SW1733, SW1734, SW1735	DATE AUG 2022
STATUS 65%	SHEET

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20.26 – INSULATION BOARD (R-20) – PIPE CROSSINGS & STORM DRAIN INSULATION							
SHEET	BEGIN STATION	END STATION	OFFSET	WIDTH (FT)	LENGTH (FT)	AREA (SF)	COMMENTS

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____

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COMPANY: _____ DATE: _____

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DATA TRANSFER CHECKED BY: _____ TITLE: _____

COMPANY: _____ DATE: _____

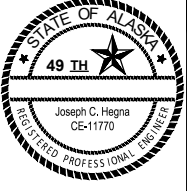
BY: _____

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

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



3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECCL882-AK





PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

18-06

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

SCHED B

STORM DRAIN SUMMARY TABLES

SCALE

HOR. NTS
VER. NTS

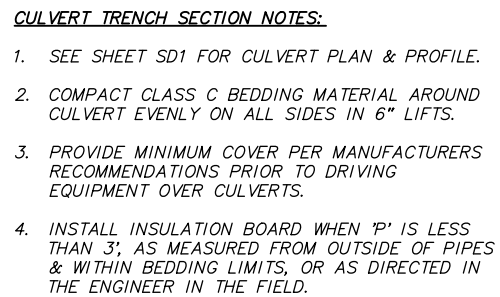
GRID SW1733, SW1734, SW1735

DATE AUG 2022

STATUS 65%

SHEET

SD13 of SD14






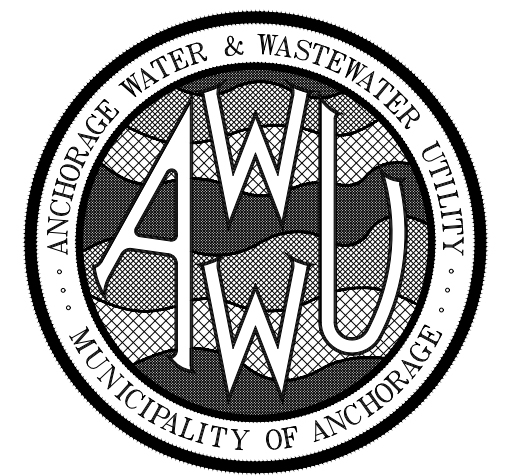
1



2)



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: _____		<table border="1"> <tr> <th>DATA</th> <th>DRAWN BY</th> <th>CHECKED BY</th> </tr> <tr> <td>BASE</td> <td></td> <td></td> </tr> <tr> <td>TOPOGRAPHY</td> <td></td> <td></td> </tr> <tr> <td>PROFILE</td> <td></td> <td></td> </tr> <tr> <td>STORM SEWER</td> <td></td> <td></td> </tr> <tr> <td>WATER/SANITARY SEWER</td> <td></td> <td></td> </tr> <tr> <td>GAS</td> <td></td> <td></td> </tr> <tr> <td>TELEPHONE</td> <td></td> <td></td> </tr> <tr> <td>ELECTRIC</td> <td></td> <td></td> </tr> <tr> <td>DESIGN</td> <td></td> <td></td> </tr> <tr> <td>CONTRACTOR</td> <td></td> <td></td> </tr> <tr> <td>PRELIMINARY/FINAL</td> <td></td> <td></td> </tr> <tr> <td>MUNICIPAL/STATE</td> <td></td> <td></td> </tr> </table>		DATA	DRAWN BY	CHECKED BY	BASE			TOPOGRAPHY			PROFILE			STORM SEWER			WATER/SANITARY SEWER			GAS			TELEPHONE			ELECTRIC			DESIGN			CONTRACTOR			PRELIMINARY/FINAL			MUNICIPAL/STATE			<table border="1"> <tr> <th colspan="2">FIELD BOOKS</th> <th>BM NO.</th> <th>LOCATION</th> <th>ELEV.</th> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> <tr> <td>DESIGN</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>STAKING</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>ASBUILT</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2">CONTRACTOR</td> <td colspan="7">BASIS OF THIS DATUM</td> </tr> <tr> <td colspan="2">INSPECTOR</td> <td colspan="7"></td> </tr> </table>							FIELD BOOKS		BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	DESIGN									STAKING									ASBUILT									CONTRACTOR		BASIS OF THIS DATUM							INSPECTOR									 3540 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEO.682-AK						PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT 18-06 42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET SCHED B CULVERT & CREEK DETAILS			
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY
42ND AVENUE UPGRADE - PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

PROJECT ID: WW00058
AUG 2022
65% DESIGN

SHEET INDEX	
SHEET NO.	SUBJECT
W1	COVER SHEET
W2	KEY MAPS, NOTES, LEGEND & ABBREVIATIONS
W3	WATER FACILITY MAP
W4	WATER MAIN PLAN & PROFILE BOP – STA 505+50
W5	WATER MAIN PLAN & PROFILE STA 505+50 – STA 511+50
W6	WATER MAIN PLAN & PROFILE STA 511+50 – STA 517+50
W7	WATER MAIN PLAN & PROFILE STA 517+50 – STA 523+50
W8	WATER MAIN PLAN & PROFILE STA 523+50 – EOP
W9	WATER MAIN PLAN & PROFILE LAUREL ST & FOLKER ST
W10	WATER MAIN PLAN & PROFILE WRIGHT ST AND PIPER ST
W11	WATER MAIN PLAN & PROFILE FIRE HYDRANTS
W12	DETAILS
W13	WATER TIE-IN DETAILS
W14	WATER TIE-IN DETAILS
W15	WATER TIE-IN DETAILS
W16	WATER TIE-IN DETAILS
W17	WATER TIE-IN DETAILS
W18	TEMPORARY WATER SERVICE OVERALL PHASING MAP
W19	TEMPORARY WATER SERVICE MAP PHASE 1
W20	TEMPORARY WATER SERVICE MAP PHASE 2
W21	TEMPORARY WATER SERVICE MAP PHASE 3

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

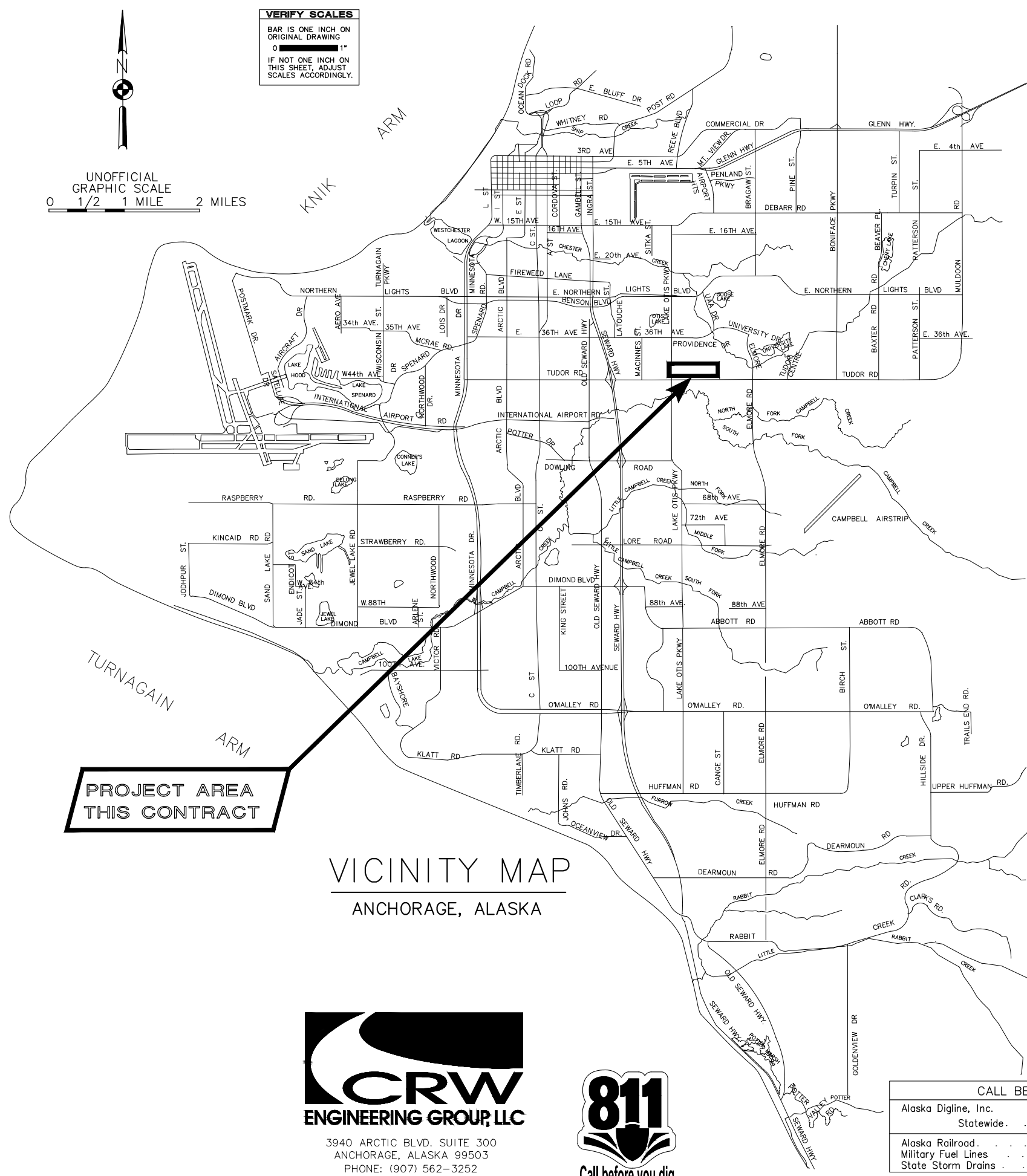


CRW
ENGINEERING GROUP, LLC

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

VICINITY MAP
ANCHORAGE, ALASKA

PROJECT AREA
THIS CONTRACT



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

UNOFFICIAL
GRAPHIC SCALE
0 1/2 1 MILE 2 MILES

SEWER KEY MAP
SW1733, SW1734, SW1735

- HYDRANTS WILL BE ADJUSTED TO FINAL GRADE BY AWWA O&M DIVISION ON A REIMBURSABLE BASIS. THE CONTRACTOR IS TO PROVIDE WRITTEN NOTICE TO THE MASS ENGINEER AND THE AWWA INSPECTOR A MINIMUM OF SEVEN (7) DAYS PRIOR TO THE NEED FOR FINAL HYDRANT ADJUSTMENT. THE WRITTEN NOTICE IS TO CONTAIN AT A MINIMUM, THE MANUFACTURER, MODEL NUMBER OF THE HYDRANT AND VERTICAL ADJUSTMENT NEEDED IN SIX INCH (6") INCREMENTS.
2. AWWA, ANCHORAGE FIRE DEPARTMENT AND WATER CUSTOMERS SHALL BE NOTIFIED ABOUT WATER SERVICE INTERRUPTIONS AND BE PROVIDED TEMPORARY WATER IN ACCORDANCE WITH MASS, IF THE OUTAGE EXCEEDS 6-HOURS UNLESS OTHERWISE SPECIFIED. THE CONTRACTOR SHALL HAVE A TEMPORARY WATER SERVICE PLAN REVIEWED AND APPROVED BY ADEC.
3. THRUST RESTRAINT FOR PVC PIPE, FITTINGS, VALVES, AND DEAD ENDS SHALL BE MECHANICALLY RESTRAINED AND INCLUDE THRUST BLOCKS PER MASS STANDARD DETAILS AT BENDS, TEES, AND HYDRANTS, UNLESS OTHERWISE IDENTIFIED ON THE PLANS.
4. ALL WATER MAINS AND SHALL BE 8" OR 6" PVC DR18 RJB, AS SHOWN IN THE PLANS, CONFORMING TO THE REQUIREMENTS OF AWWA C900.
5. WATER SERVICES PIPE TYPE AND SIZES ARE SPECIFIED IN THE PLANS. ALL PVC WATER SERVICES SHALL CONFORM TO C900 DR18 RJB.
6. TRANSITION COUPLING BETWEEN NEW WATER PIPE AND EXISTING PIPE SHALL BE ROMAC ALPHA WITH STAINLESS STEEL TYPE 316 NUTS, BOLTS AND WASHERS, OR APPROVED EQUAL.
7. WATER SERVICES SHALL BE PLACED NO CLOSER THAN: 15 FEET HORIZONTALLY MEASURED TO ANY FIRE HYDRANT OR FIRE HYDRANT LEG; 10 FEET HORIZONTALLY MEASURED TO ANY SANITARY SEWER MAIN, SANITARY SEWER SERVICE, STORM SEWER, FOOTING DRAIN, STREET LIGHT, TRANSFORMER PAD, ELECTRICAL/TELEPHONE/CABLE BOX AND UTILITY POLE; AND 5 FEET HORIZONTALLY MEASURED TO ANY SIDE LOT LINE.
8. THE CONTRACTOR SHALL PROVIDE ALL SETUP AND TEAR DOWN REQUIRED TO OPEN BORE FLUSH NEWLY INSTALLED WATER PIPE. AWWA WILL PROVIDE FLUSH WATER FROM THE AWWA 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.
9. ALL WATER MAINS, HYDRANT LEGS AND SERVICE PIPE BEDDING SHALL BE CLASS "E" AND ALL BACKFILL COMPACTED TO MINIMUM OF 95% MAXIMUM DENSITY.
10. ALL WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS.
11. PVC PIPE SHALL NOT BE BENT, FLEXED OR DEFLECTED AT JOINTS WITHOUT THE USE OF DEFLECTION COUPLERS. DEFLECTION MAY NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDED LIMITS IN FITTINGS, VALVES AND DEFLECTION COUPLERS.
12. THE CONTRACTOR SHALL RELOCATE ANY WATER SERVICE CONNECTIONS INSTALLED WITH LESS THAN MINIMUM STANDARD DISTANCES PRIOR TO ACCEPTANCE BY AWWA.
13. ALL WATER MAIN STATIONING IS PIPE CENTERLINE STATIONING.
14. PROVIDE A TRACER WIRE AND WARNING TAPE ON ALL PVC WATER LINES AS SHOWN IN THESE PLANS AND AS SPECIFIED IN THE SPECIAL PROVISIONS.
15. INSTALL ANODES AT ALL FITTINGS, VALVES, WATER SERVICES, TRANSITION COUPLERS AND HYDRANTS PER MASS STANDARD DETAILS UNLESS OTHERWISE SHOWN ON THE PLANS.
16. WATER SERVICE TO FOLKER PARK AND IRRIGATION SYSTEM TO BE PAID UNDER SCHEDULE A.

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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TOPOGRAPHY	----	----	ELECTRIC	----	----						
PROFILE	----	----	CABLE TV	----	----						
SANITARY SEWER	----	----	TRAFFIC SIGNAL	----	----						
STORM SEWER	----	----	DESIGN	----	----						
WATER	----	----	QUANTITIES	----	----						
GAS	----	----	MUN. FINAL CHECK	----	----						
PLAN CHECK							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: _____

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: _____


2. DATA TRANSFERRED BY: _____

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DATE: _____


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ENGINEERING GROUP, LLC

3940 ARCTIC BLVD, SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECCL882-AK



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



ANCHORAGE WATER & WASTEWATER UTILITY
MUNICIPALITY OF ANCHORAGE

CONSULTANT

SEAL

MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

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

KEY MAPS, NOTES, LEGEND & ABBREVIATIONS

HORZ SCALE: N/A
VERT SCALE: N/A

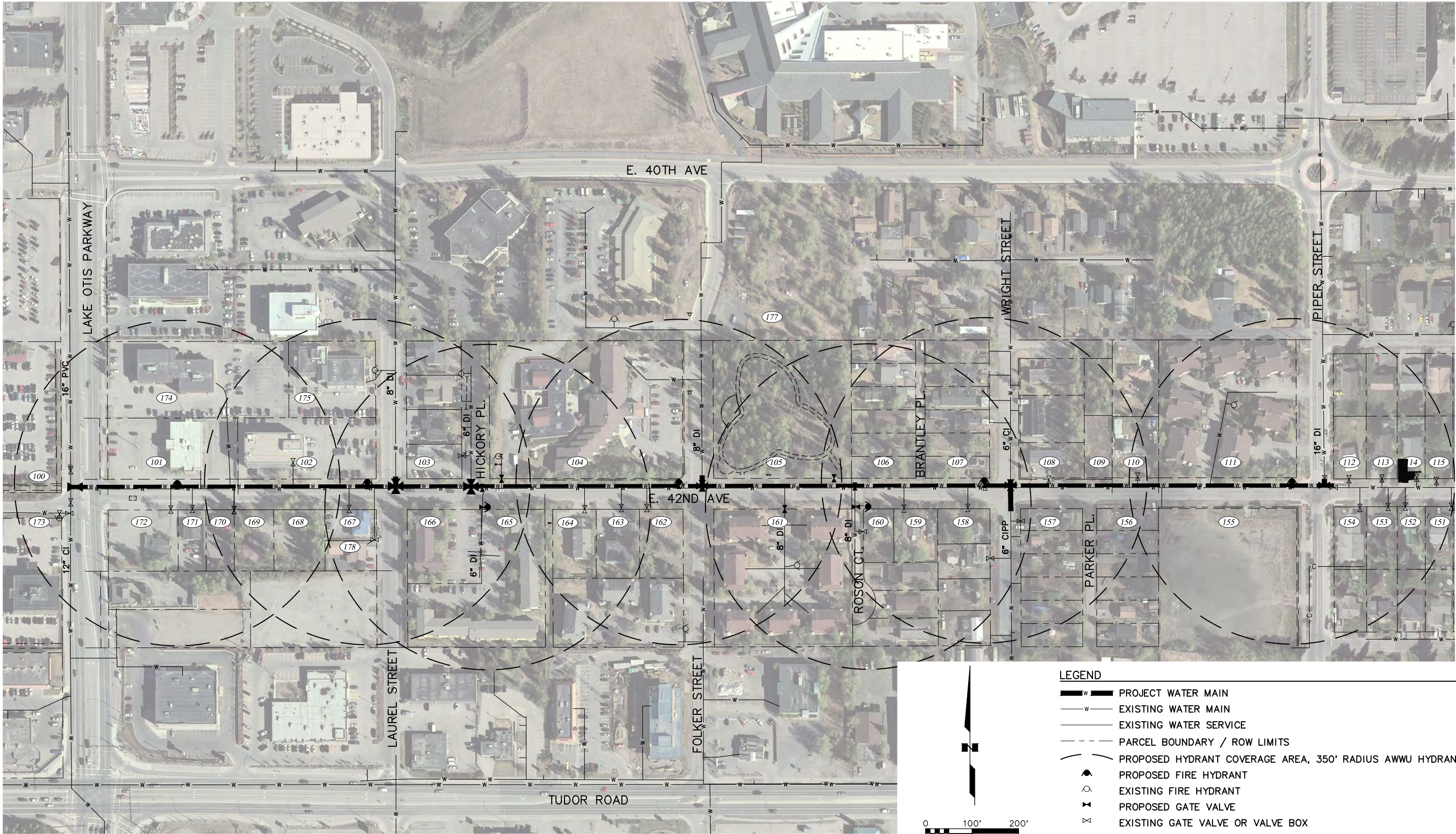
DATE: AUG 2022

GRID: SW1733-35

PROJ. ID.: WWO0058

SHEET

W2 of W21



LEGEND

- PROJECT WATER MAIN
- EXISTING WATER MAIN
- EXISTING WATER SERVICE
- PARCEL BOUNDARY / ROW LIMITS
- PROPOSED HYDRANT COVERAGE AREA, 350' RADIUS AWWU HYDRANTS
- PROPOSED FIRE HYDRANT
- EXISTING FIRE HYDRANT
- PROPOSED GATE VALVE
- EXISTING GATE VALVE OR VALVE BOX

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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CONTRACTOR: _____
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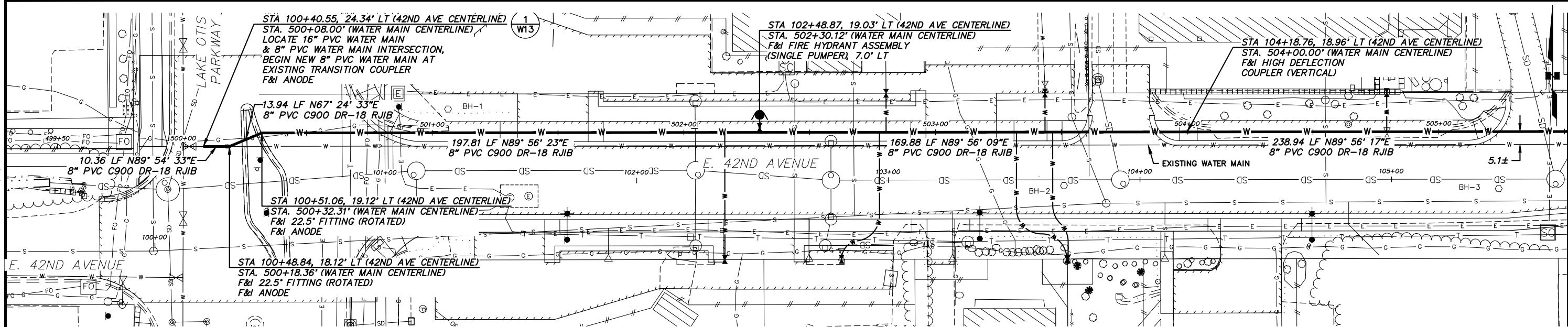
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

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

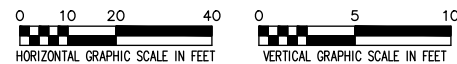
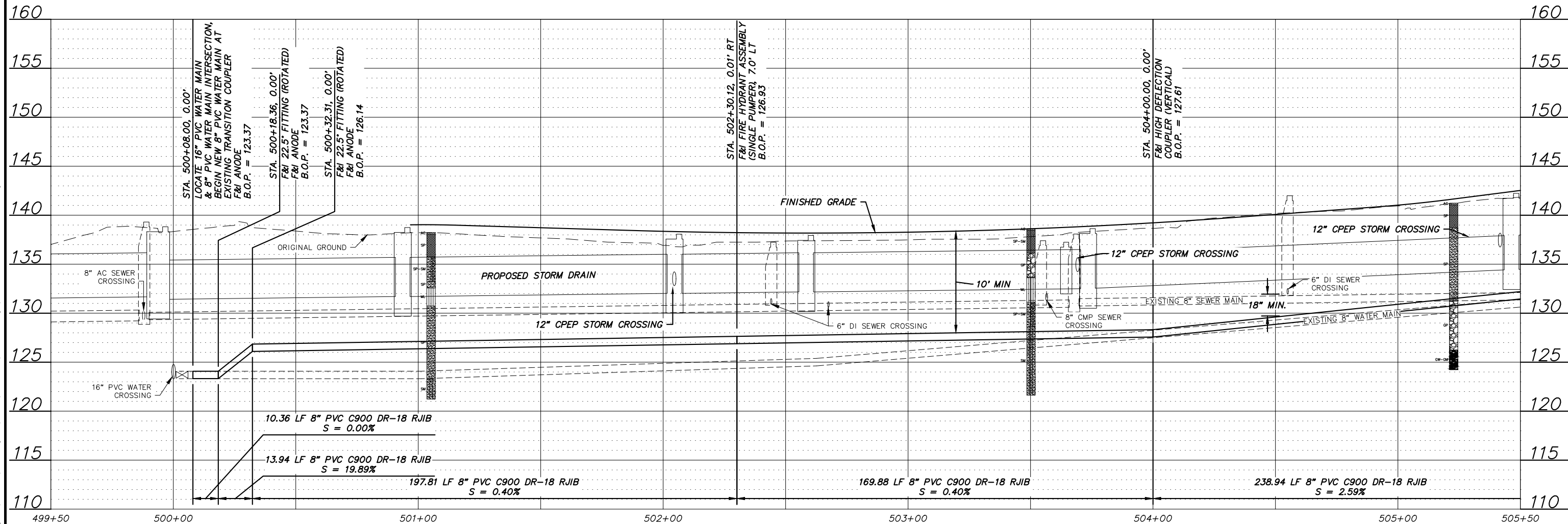
WATER FACILITY MAP

HORZ SCALE: 1" = 100'
VERT SCALE: N/A
DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: WWO0058
SHEET W3 OF W21

PLOT DATE: 8/31/2022 9:52 AM
PLOT SCALE:



MATCH LINE STA 505+50
AWWU PLAN SET NO. 11044



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

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

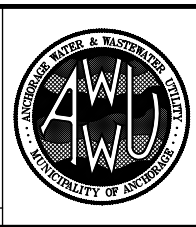
1. DATA PROVIDED BY: _____
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CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

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.
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MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

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

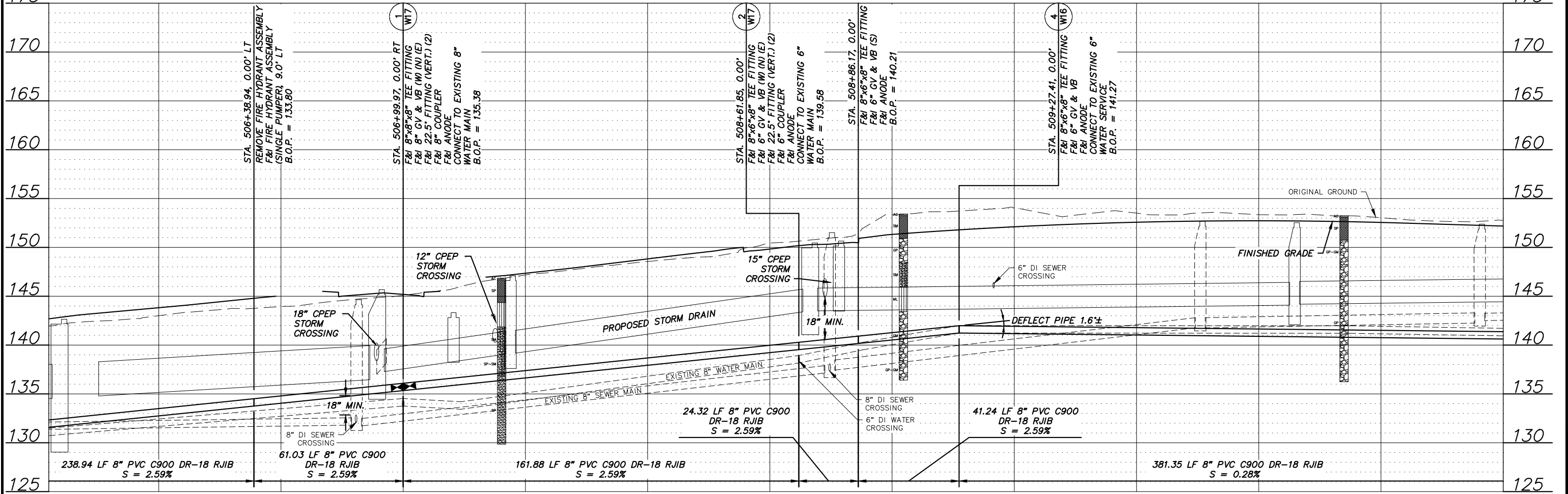
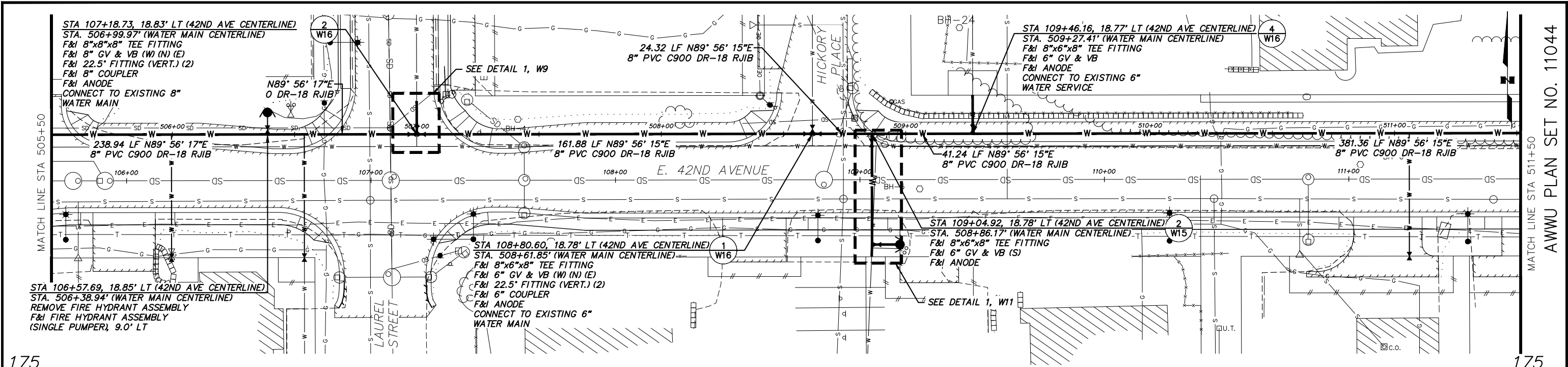
WATER MAIN PLAN & PROFILE
BOP - STA 505+50

HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'
DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: WWO0058
SHEET W4 OF W21

PLOT DATE: 8/31/2022 9:52 AM

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 Waterline-Plan & Profile.dwg



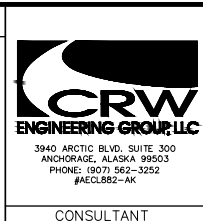
- NOTES
1. RAISING THE WATER MAIN WILL CREATE A VERTICAL OFFSET TO THE EXISTING 6" SERVICE, SO OUR DESIGN WILL ADD 10 LF OR MORE SERVICE PIPE TO ADJUST FOR THIS DELTA OFFSET.

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	
DATA	DRAWN BY	CHECKED BY	DATE	REV	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
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TOPOGRAPHY	---	---	---	---	---	---	---	---	---
PROFILE	---	---	---	---	---	---	---	---	---
SANITARY SEWER	---	---	---	---	---	---	---	---	---
STORM SEWER	---	---	---	---	---	---	---	---	---
WATER	---	---	---	---	---	---	---	---	---
GAS	---	---	---	---	---	---	---	---	---
PLAN		CHECK		REVISIONS					

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

REUSE OF DOCUMENTS

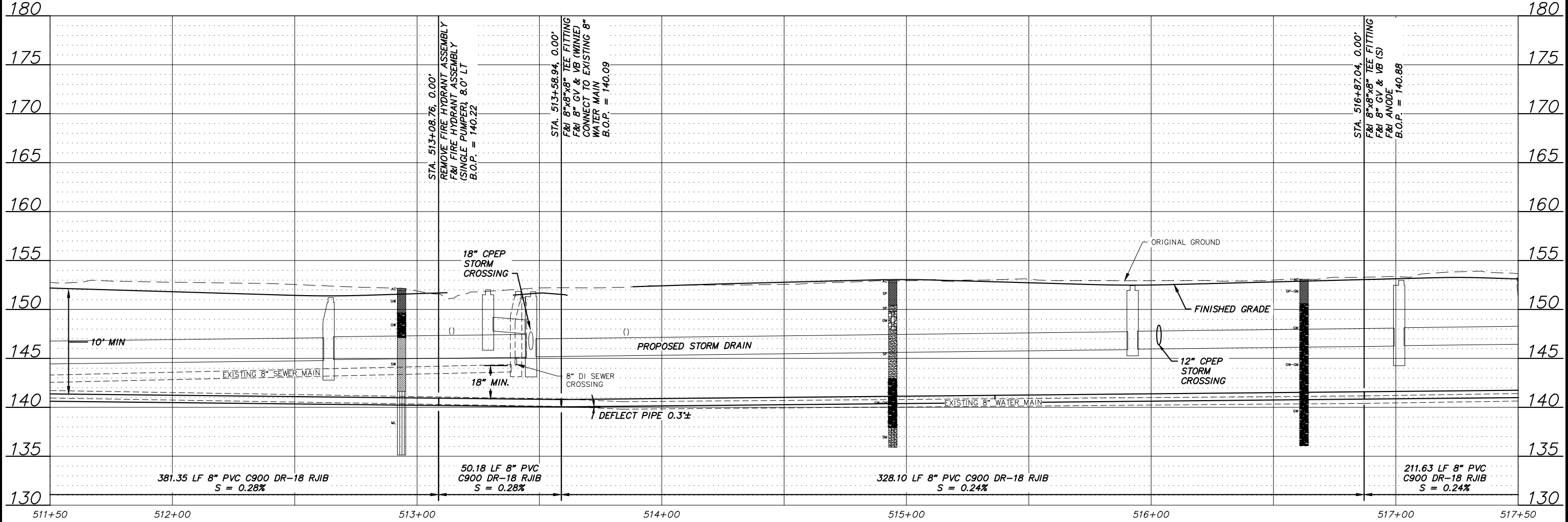
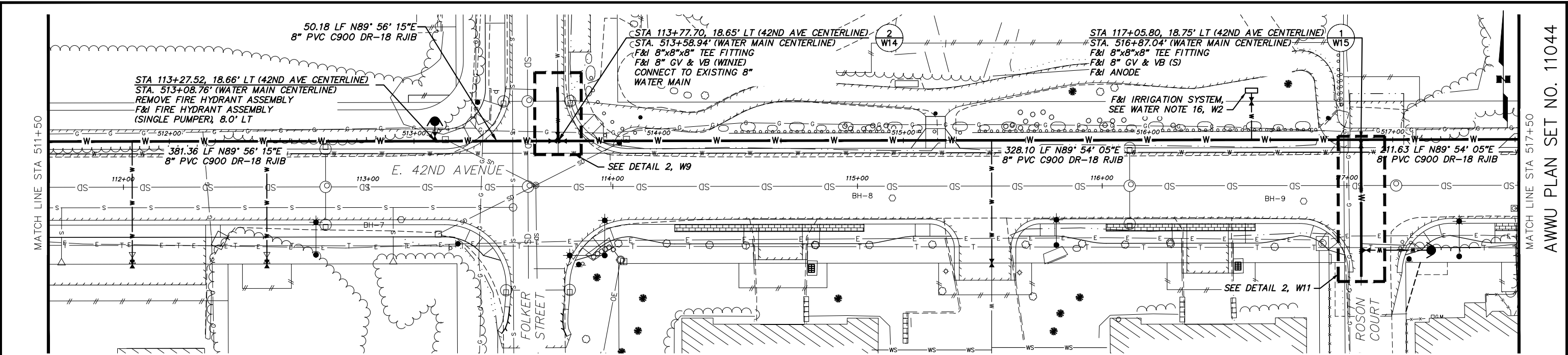
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY	
42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	
WATER MAIN PLAN & PROFILE STA 505+50 - STA 511+50	
HORIZ SCALE: 1" = 20'	DATE: AUG 2022
VERT SCALE: 1" = 5'	GRID: SW1733-35
PROJ. ID: W000058	SHEET W5 OF W21

PLOT DATE: 8/31/2022 9:53 AM
PLOT SCALE:

ACAD FILE: J:\JobsData\10142000 42nd Avenue Upgrade\00 CADD\01 Phase 1\02 AWWU Design\10142000 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

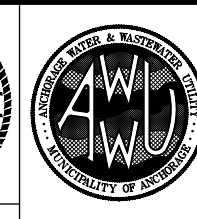
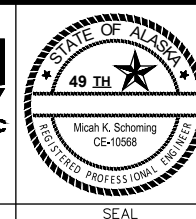
RECORD DRAWING

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

- 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: _____
- DATA TRANSFERRED BY:
COMPANY: _____
DATE: _____
- 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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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

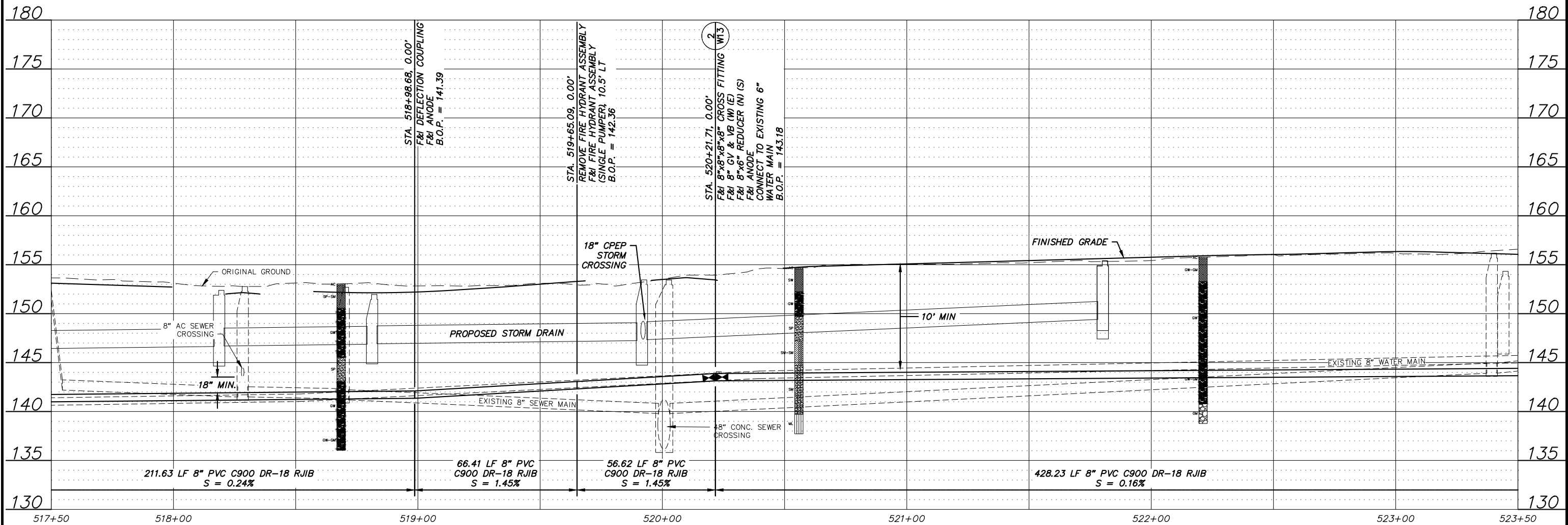
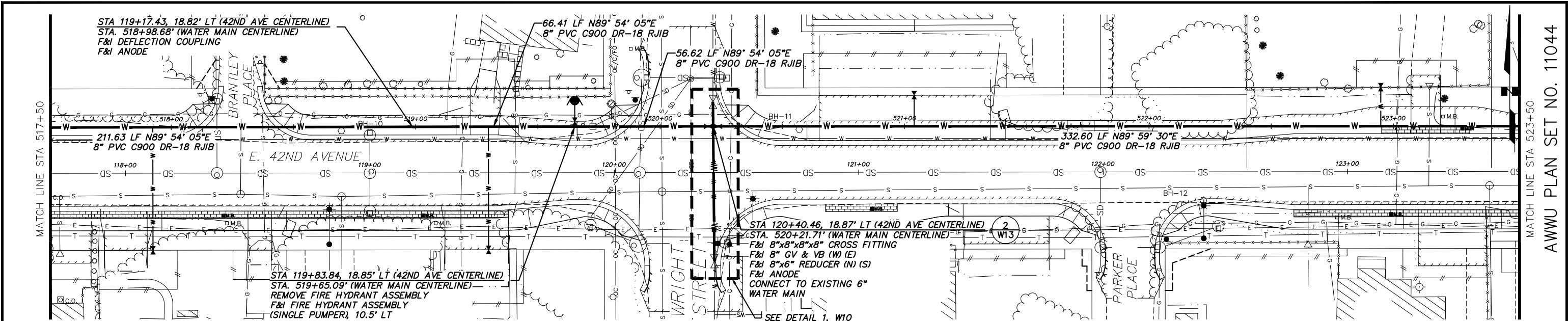
HORZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'

DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: W000058

SHEET W6 OF W21

PLOT DATE: 8/31/2022 9:53 AM
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 Waterline-Plan & Profile.dwg



VERIFY SCALE

DATA	DRAWN BY	CHECKED BY	DATE	REV	DATE	DESCRIPTION	BY
BASE	---	---	---	---	---	---	---
TOPOGRAPHY	---	---	---	---	---	---	---
PROFILE	---	---	---	---	---	---	---
SANITARY SEWER	---	---	---	---	---	---	---
STORM SEWER	---	---	---	---	---	---	---
WATER	---	---	---	---	---	---	---
GAS	---	---	---	---	---	---	---
PLAN	CHECK						
						REVISIONS	

RECORD DRAWING

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

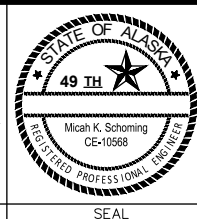
1. DATA PROVIDED BY:
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

2. DATA TRANSFERRED BY:
CONTRACTOR: _____
BY: _____ TITLE: _____
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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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

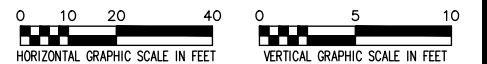
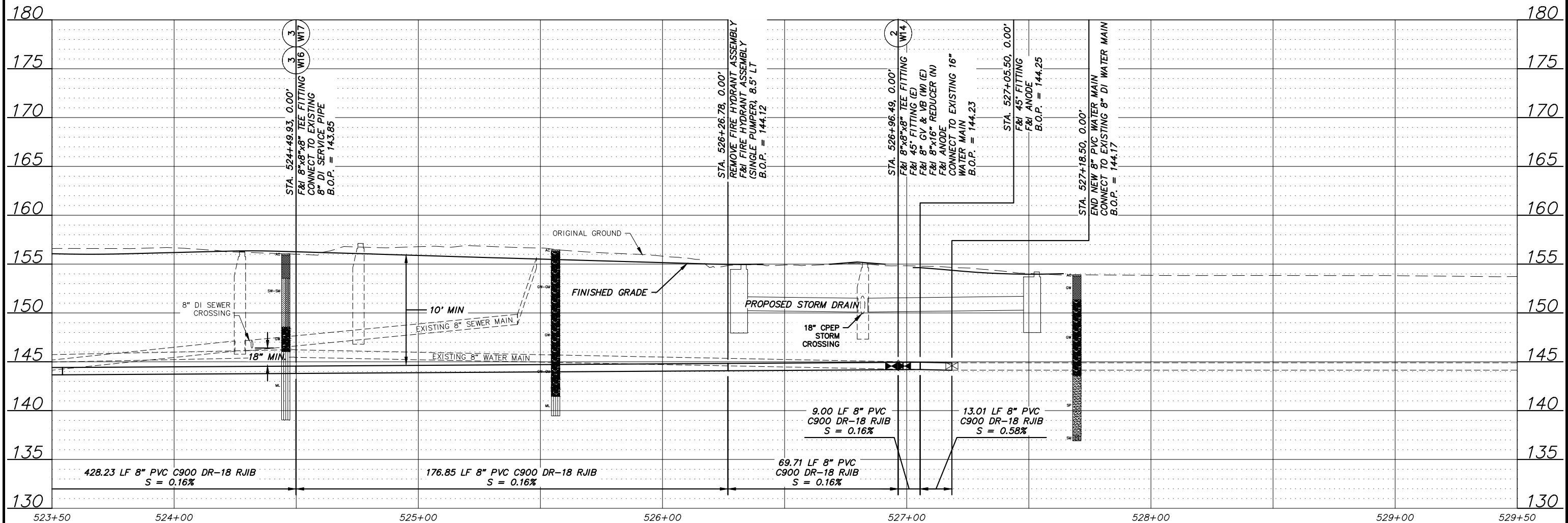
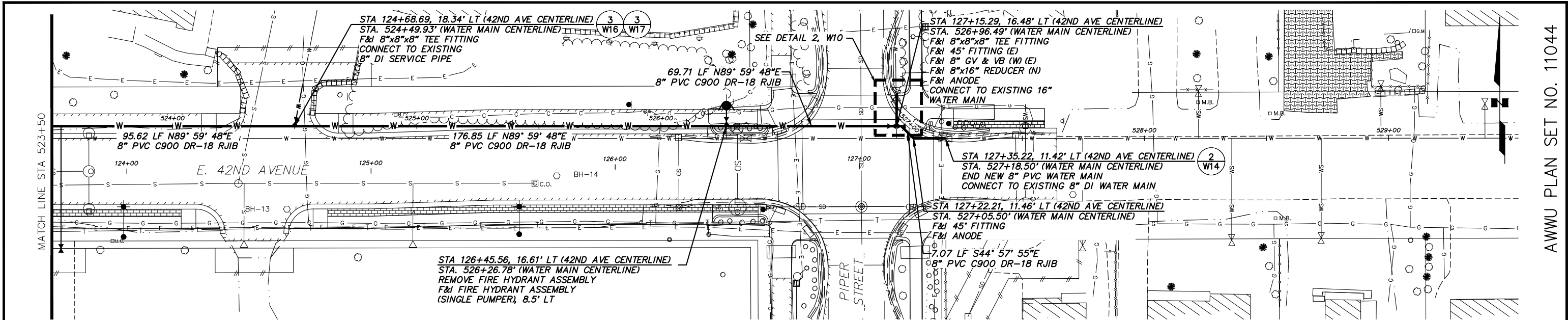
42ND AVENUE UPGRADE - PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

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

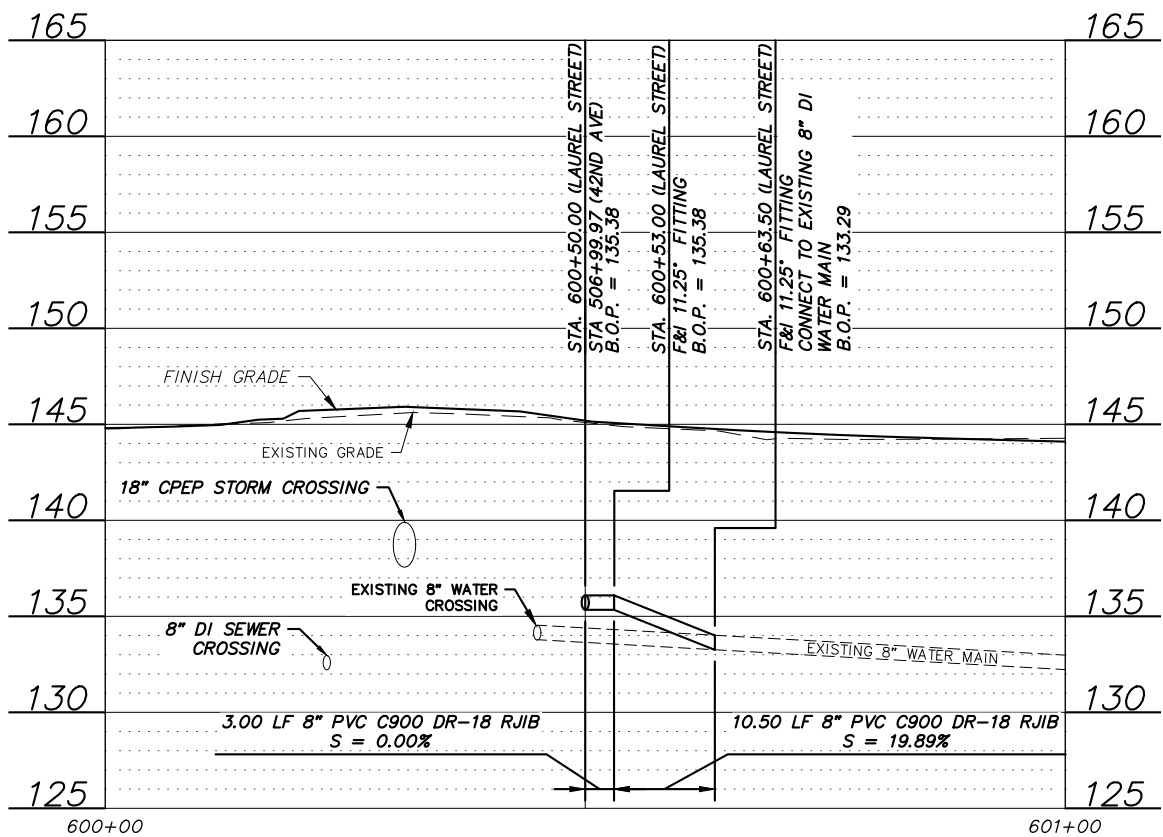
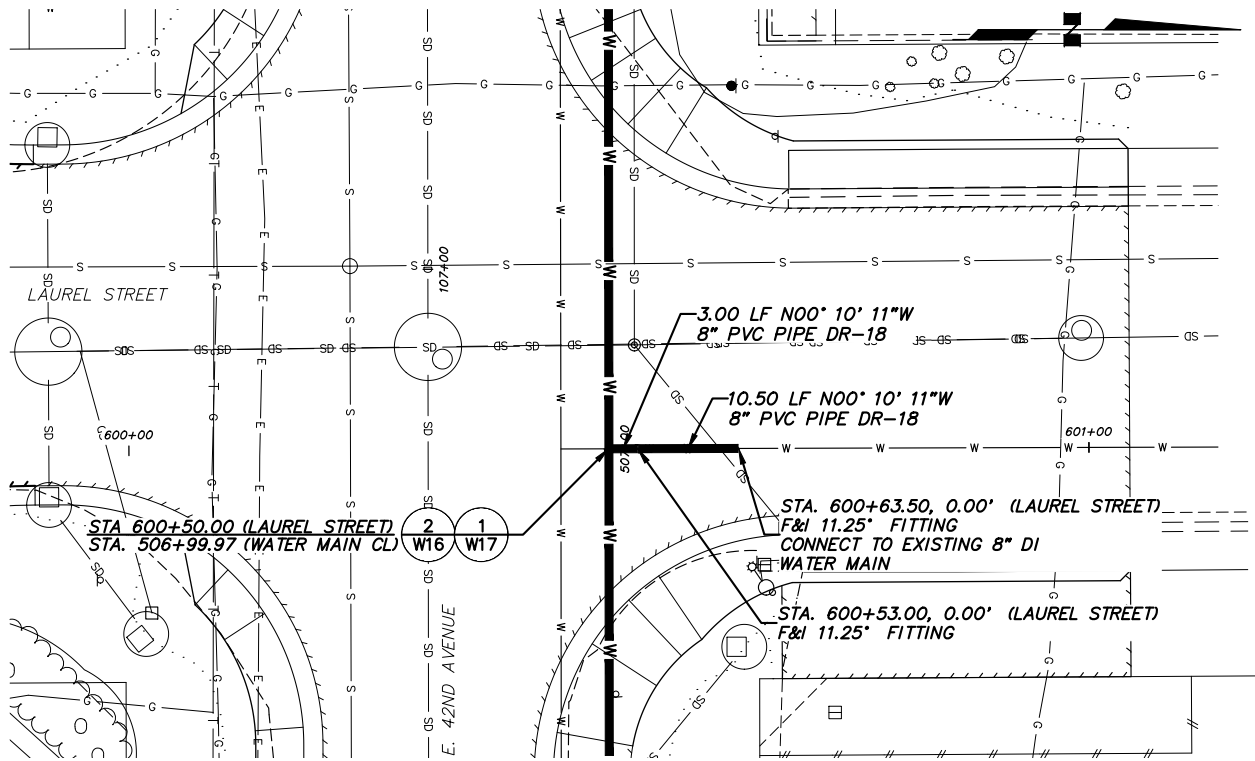
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'
DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: W000058
SHEET W7 OF W21

PLOT DATE: 8/31/2022 9:53 AM
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 Waterline-Plan & Profile.dwg

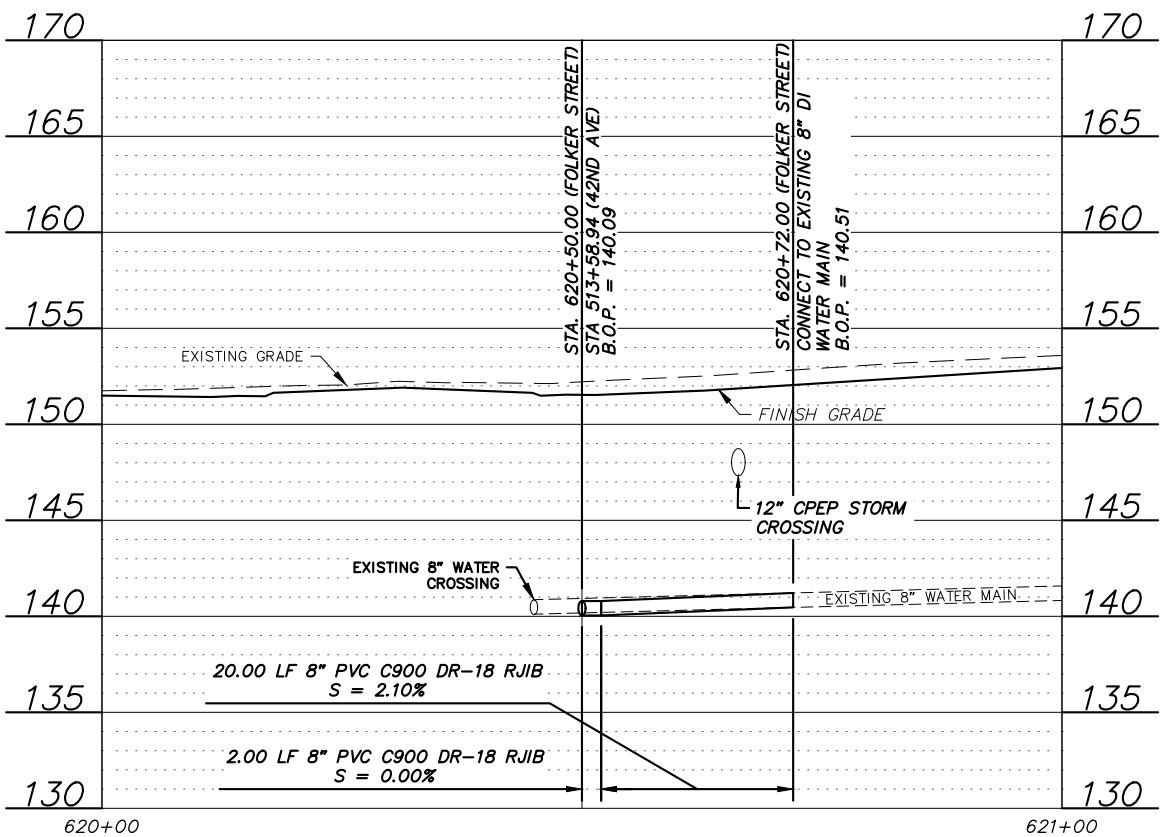
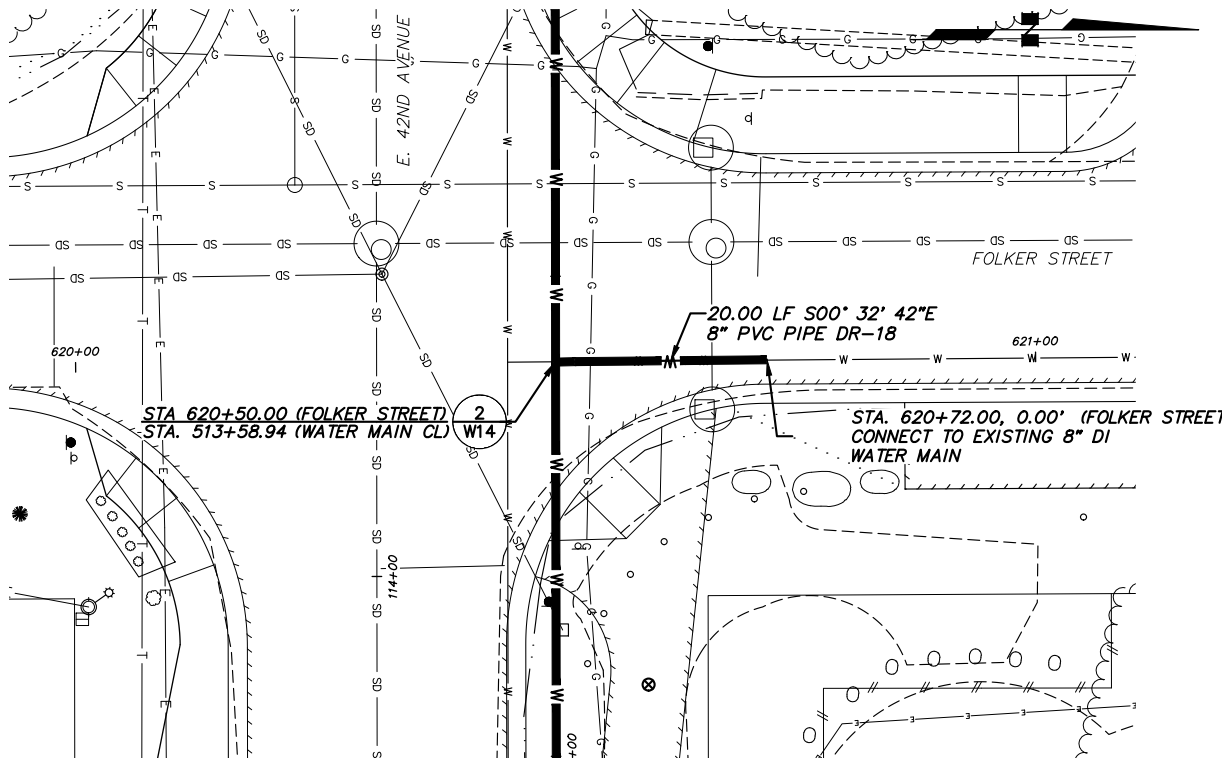


VERIFY SCALE										RECORD DRAWING										MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY									
THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING. 0" = 1"										Note: To be filled out on original drawings upon project completion.										42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET WATER MAIN PLAN & PROFILE STA 523+50 - EOP									
DATA										1. DATA PROVIDED BY:										HORIZ SCALE: 1" = 20'									
BASE										This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.										VERT SCALE: 1" = 5'									
TOPOGRAPHY										CONTRACTOR:										DATE: AUG 2022									
PROFILE										BY: _____ TITLE: _____										GRID: SW1733-35									
SANITARY SEWER										DATE: _____										PROJ. ID.: WW00058									
STORM SEWER										2. DATA TRANSFERRED BY:										SHEET									
WATER										COMPANY: _____										W8									
GAS										DATE: _____										W21									
PLAN										DATE: _____																			
CHECK																													
REVISIONS																													



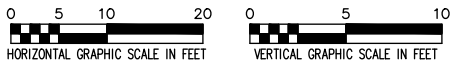
LAUREL STREET - PLAN & PROFILE

SCALE: 1" = 5'



FOLKER STREET - PLAN & PROFILE

SCALE: 1" = 5'



VERIFY SCALE

DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY
BASE	---	---	---	---	---
TOPOGRAPHY	---	---	---	---	---
PROFILE	---	---	---	---	---
SANITARY SEWER	---	---	---	---	---
STORM SEWER	---	---	---	---	---
WATER	---	---	---	---	---
GAS	---	---	---	---	---
PLAN	CHECK			REVISIONS	

RECORD DRAWING

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

1. DATA PROVIDED BY: _____

2. DATA TRANSFERRED BY: _____

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.

CONTRACTOR: _____

BY: _____ TITLE: _____

DATE: _____

DATA TRANSFER CHECKED BY: _____

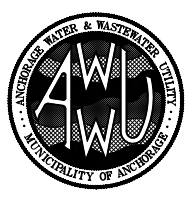
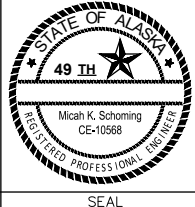
COMPANY: _____

BY: _____ TITLE: _____

DATE: _____

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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
LAUREL ST & FOLKER ST

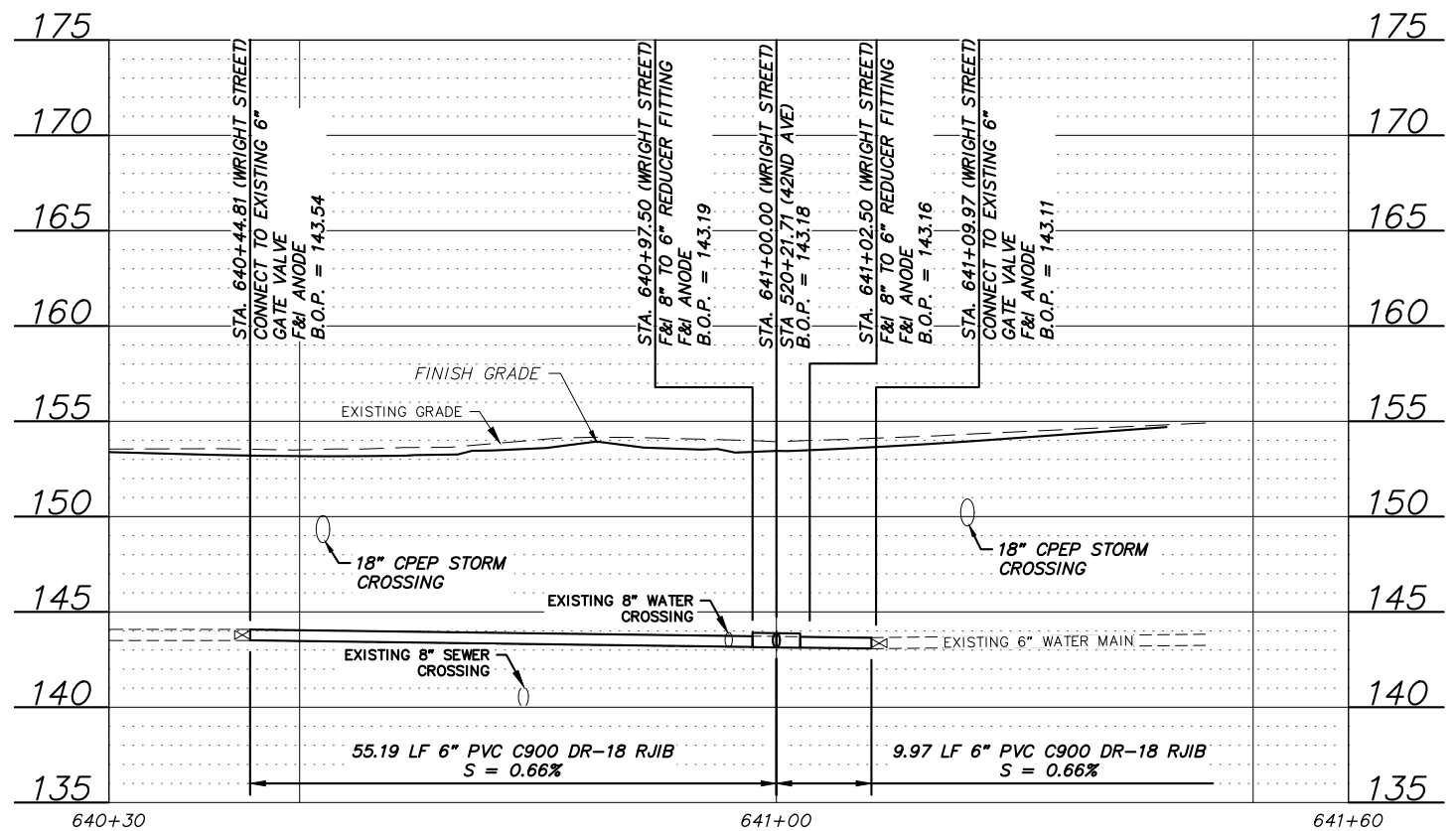
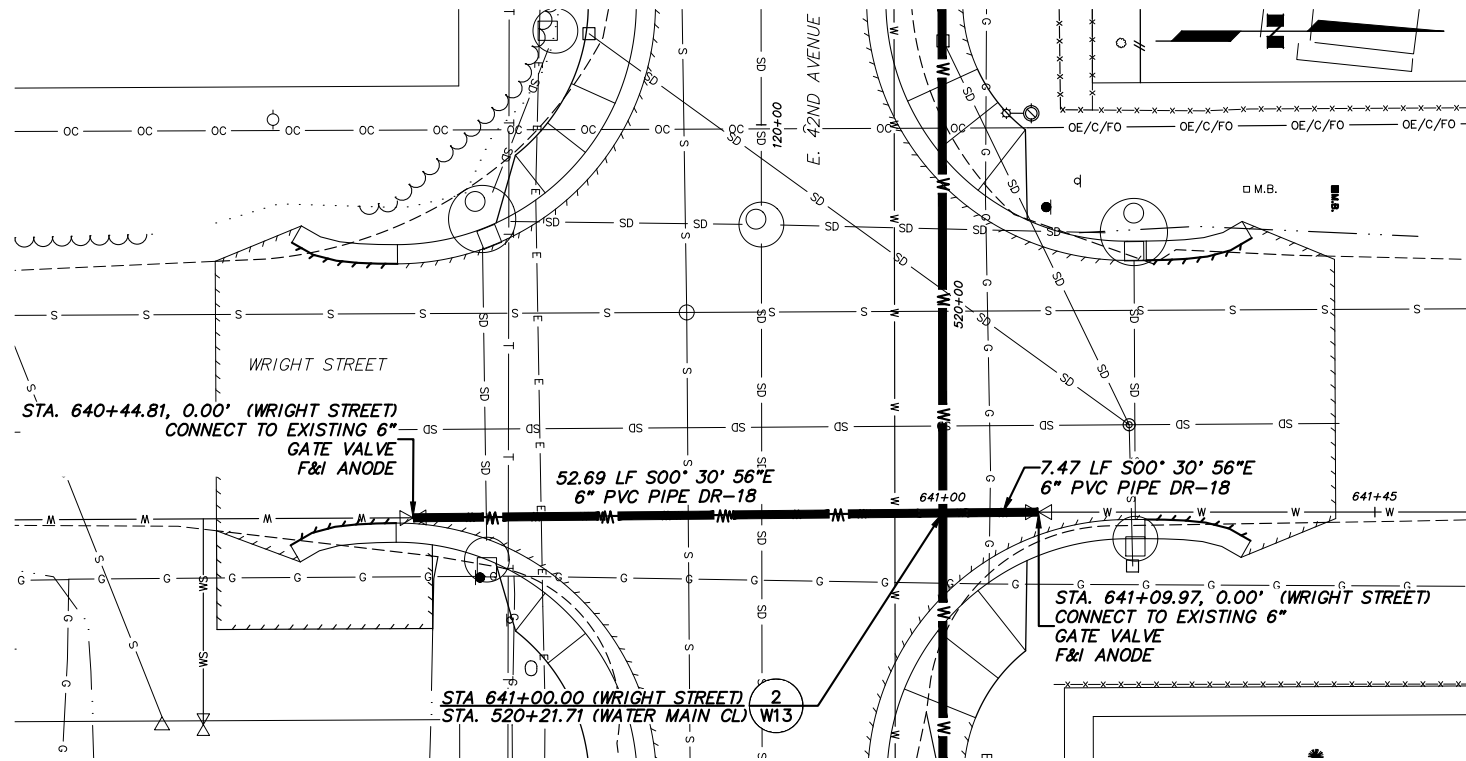
HORIZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'
DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: W000058

SHEET
W9
OF
W21

PLOT DATE: 8/31/2022 9:55 AM

PLOT SCALE:

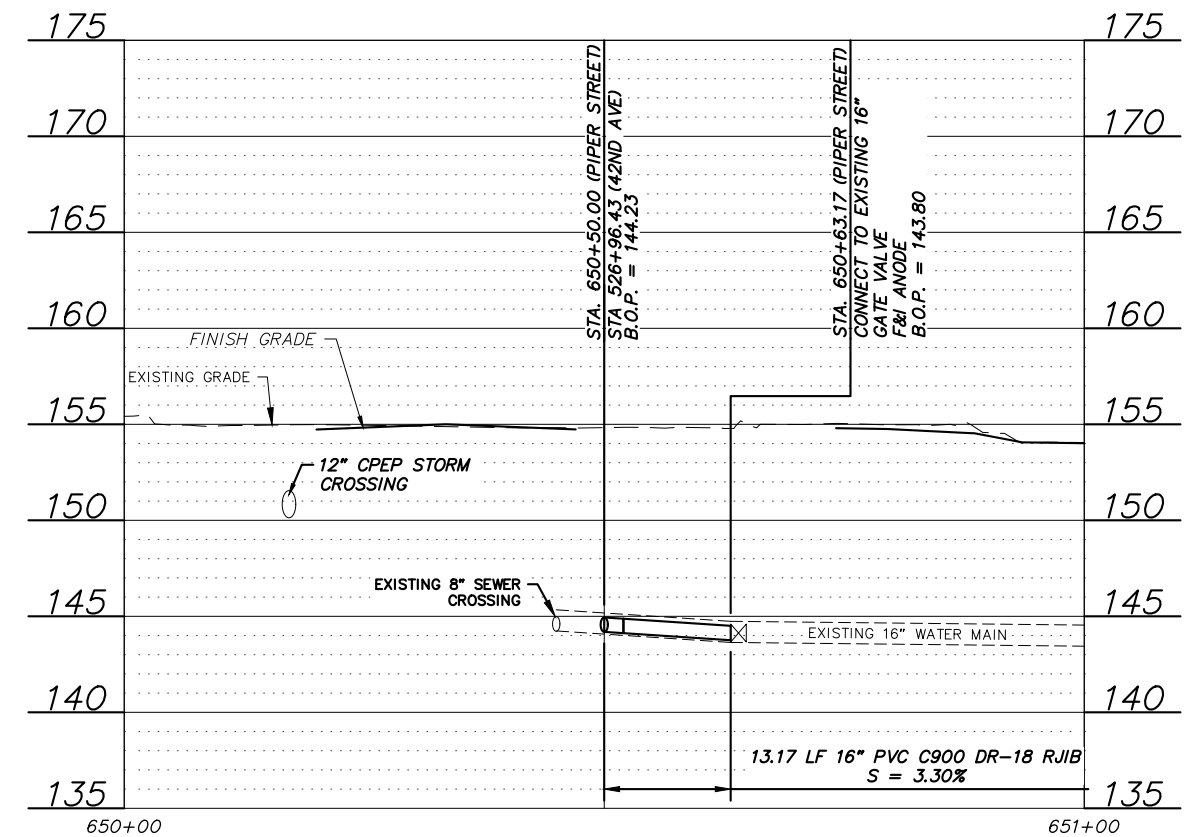
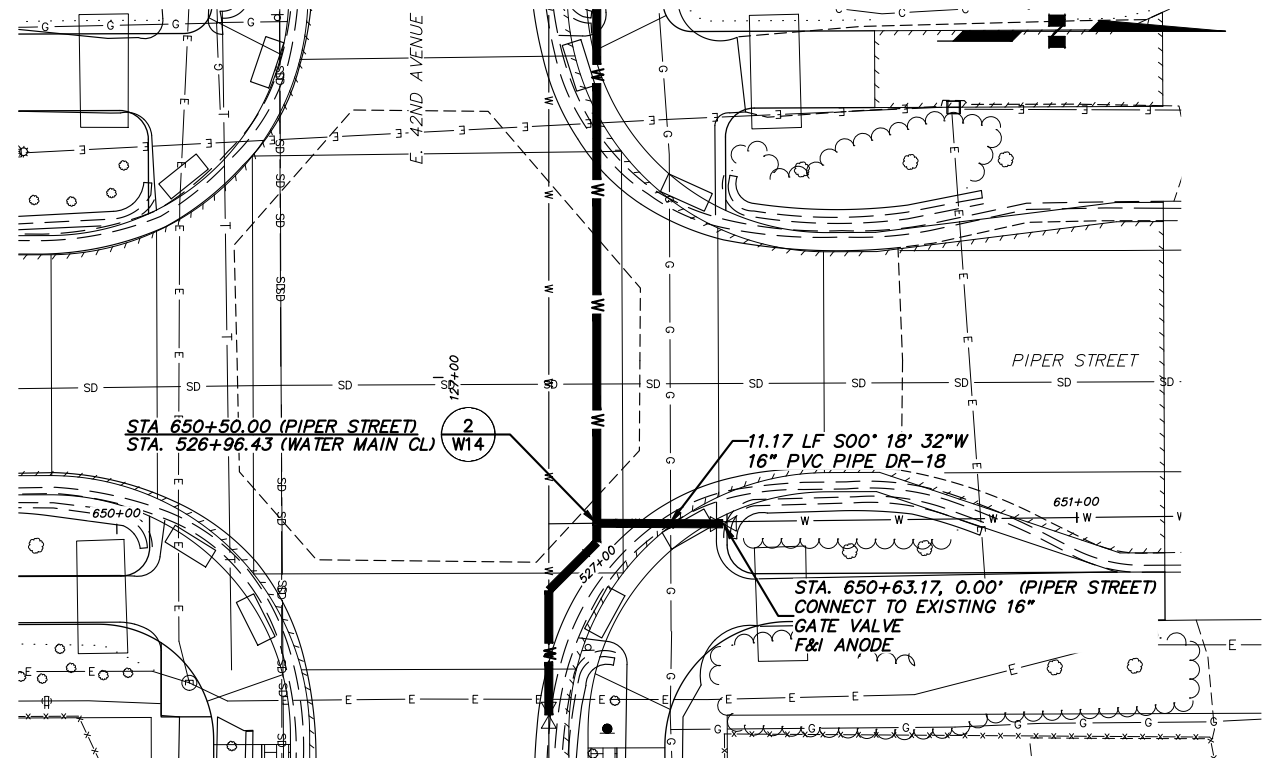
ACAD FILE: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Waterline-Plan & Profile - Details.dwg



1

WRIGHT STREET - PLAN & PROFILE

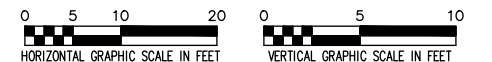
SCALE: 1" = 5'



2

PIPER STREET - PLAN & PROFILE

SCALE: 1" = 5'



VERIFY SCALE

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

RECORD DRAWING

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

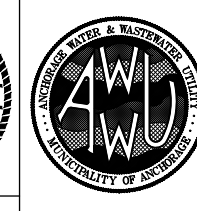
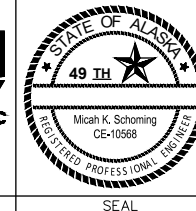
1. DATA PROVIDED BY:
This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.
CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____

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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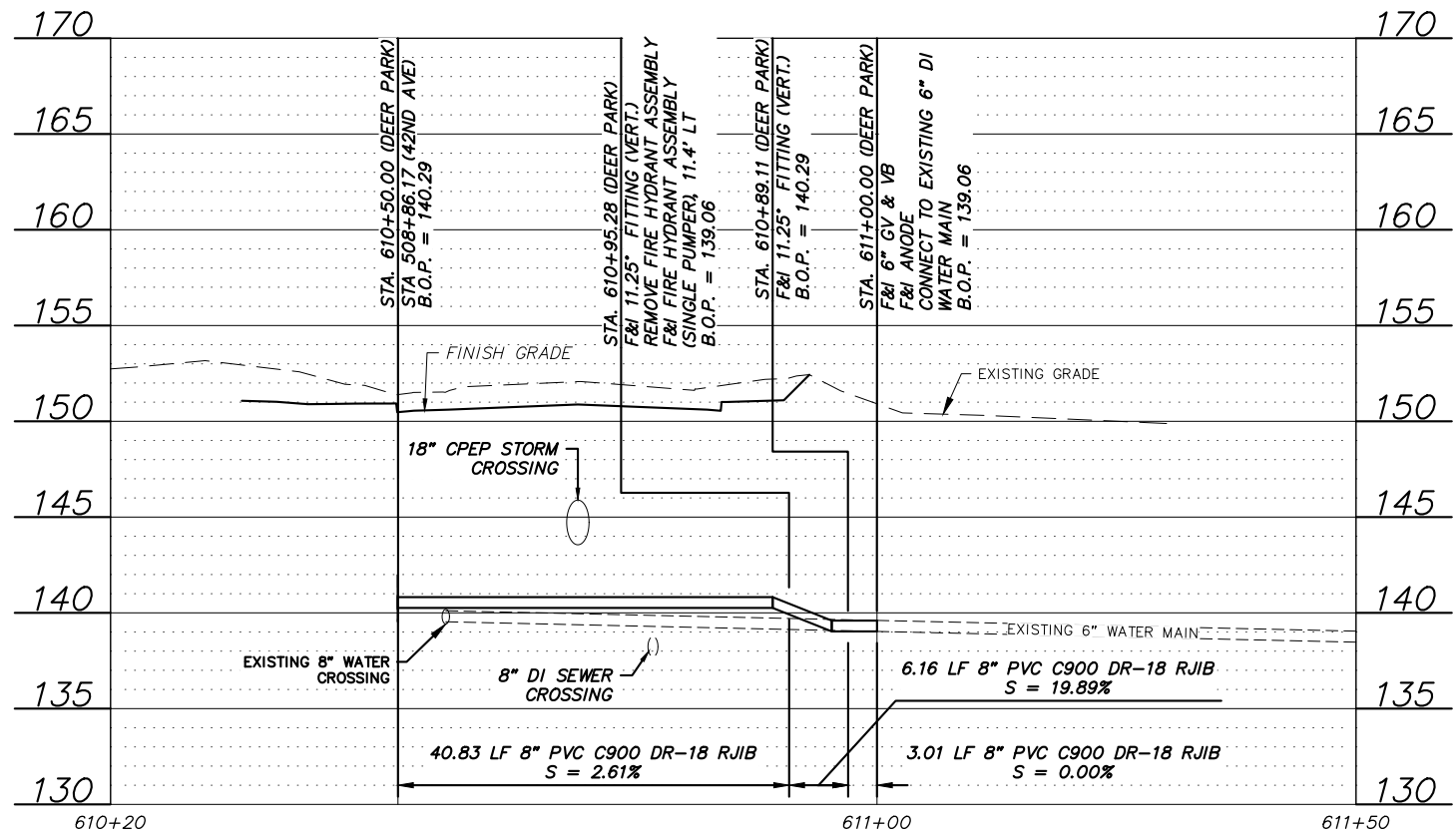
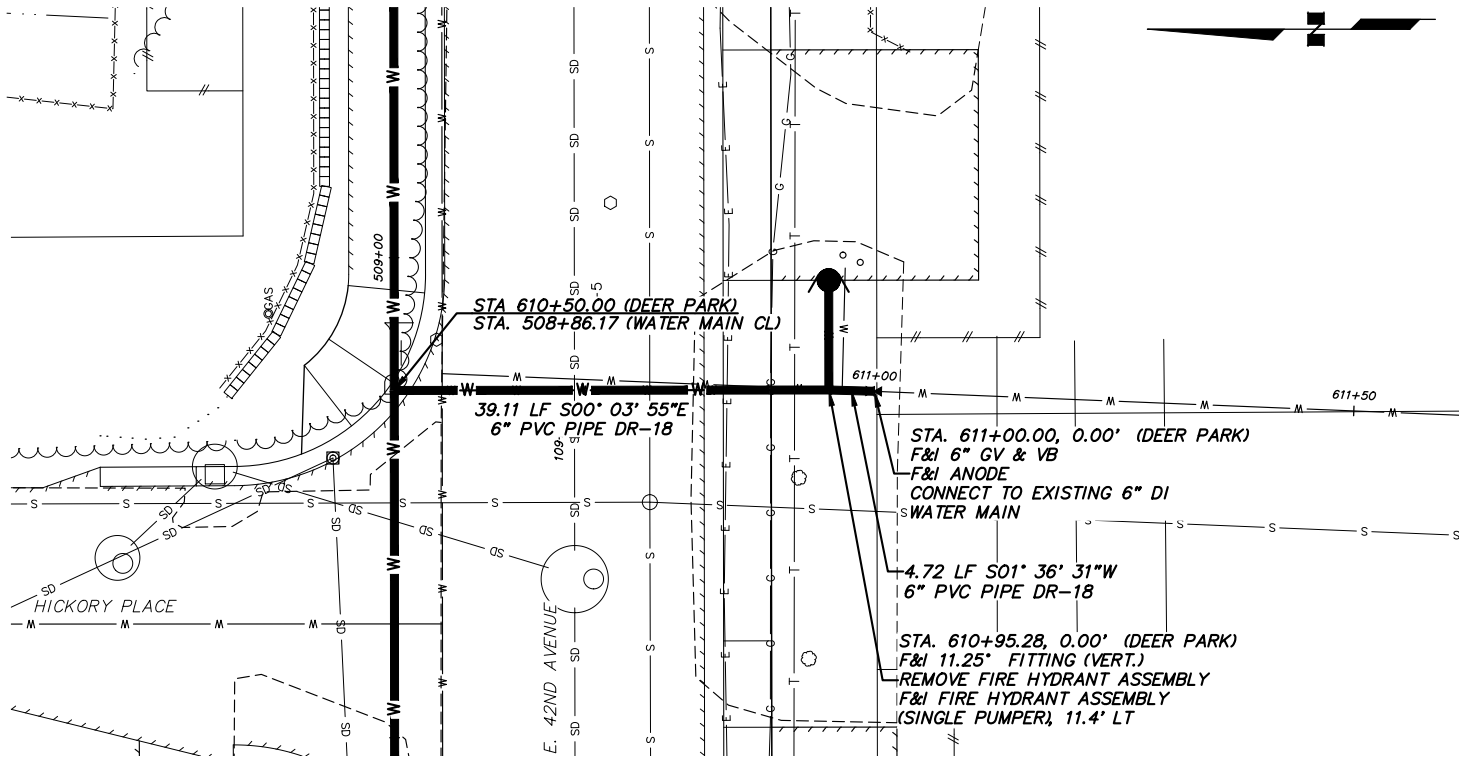
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET			
WATER MAIN PLAN & PROFILE WRIGHT ST AND PIPER ST			
HORIZ SCALE: 1" = 20'	DATE: AUG 2022	GRID: SW1733-35	W10
VERT SCALE: 1" = 2'			OF
PROJ. ID: W000058			W21

AWWU PLAN SET NO. 11044

PLOT DATE: 8/31/2022 9:56 AM

PLOT SCALE:

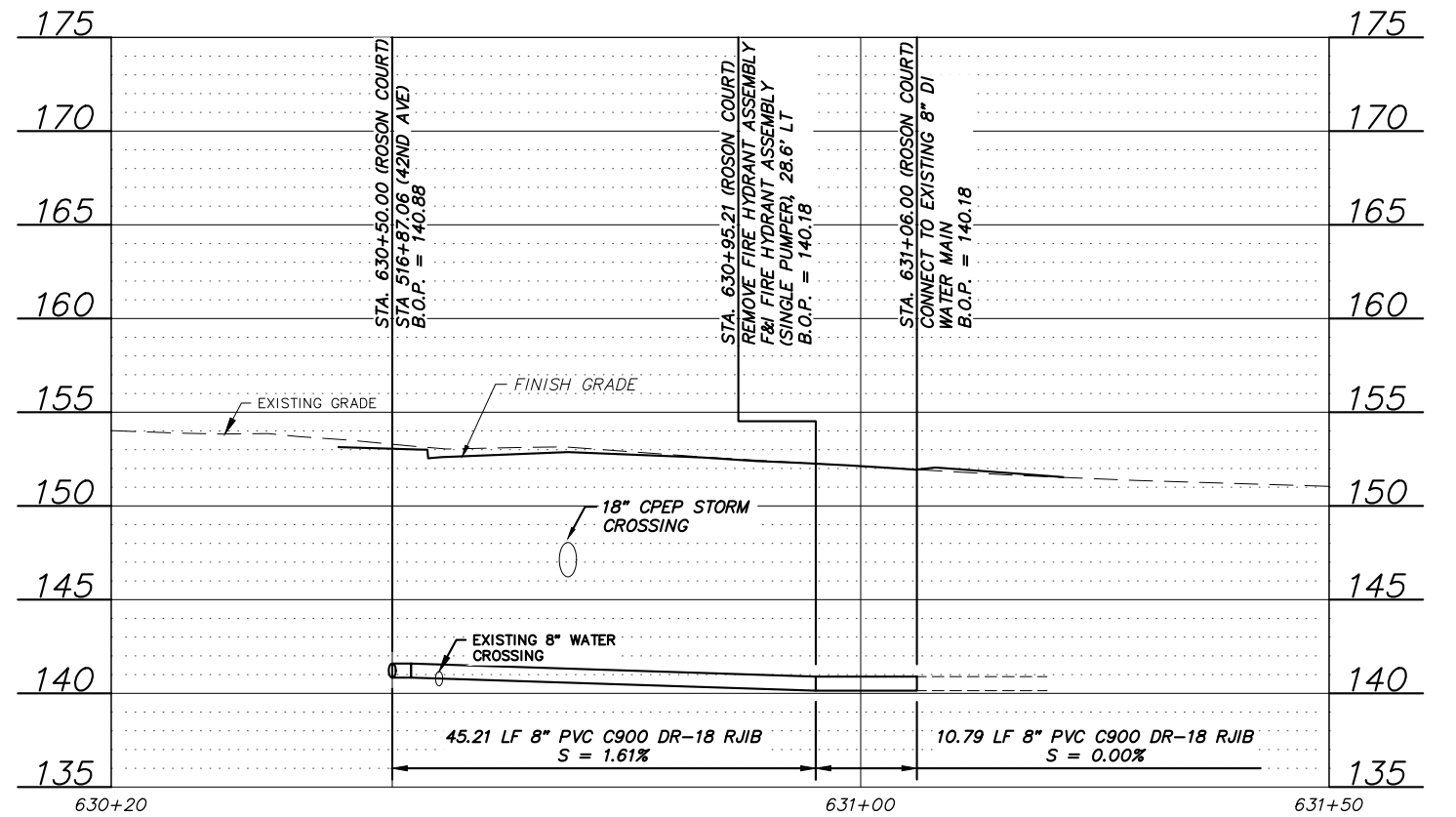
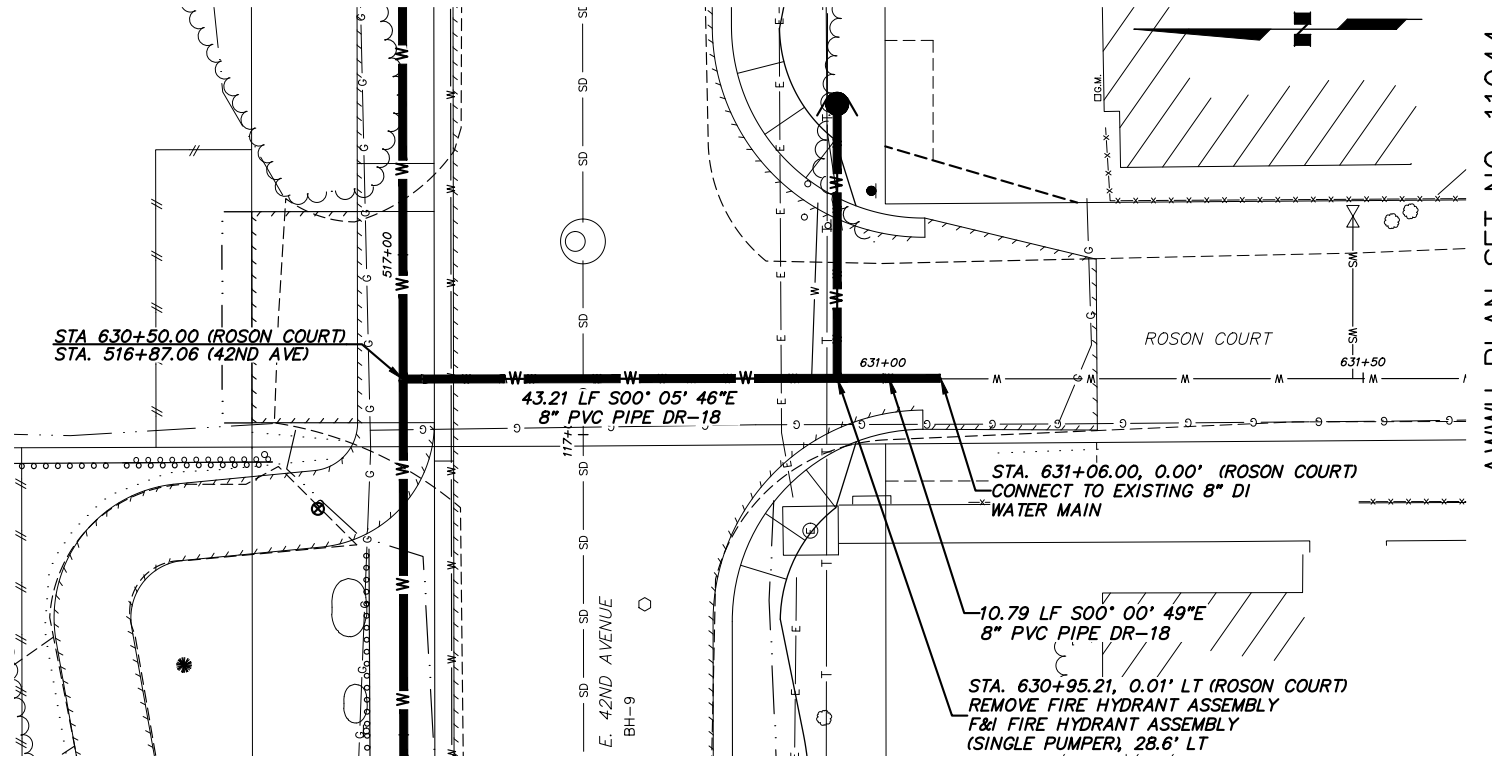
ACAD FILE: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\01 Civil\01 Phase 1\02 AWWU Design\10142.00 Waterline-Plan & Profile - Details.dwg



1

DEER PARK - PLAN & PROFILE

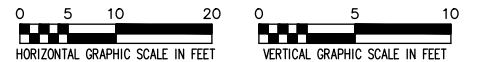
SCALE: 1" = 5'



2

ROSON COURT - PLAN & PROFILE

SCALE: 1" = 5'



VERIFY SCALE

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

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

RECORD DRAWING

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: _____
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DATE: _____

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

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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

WATER MAIN PLAN & PROFILE FIRE HYDRANTS

HORZ SCALE: 1" = 20'
VERT SCALE: 1" = 5'
DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: W000058
SHEET W11 of W21

UTILITY TRENCH SECTION NOTES

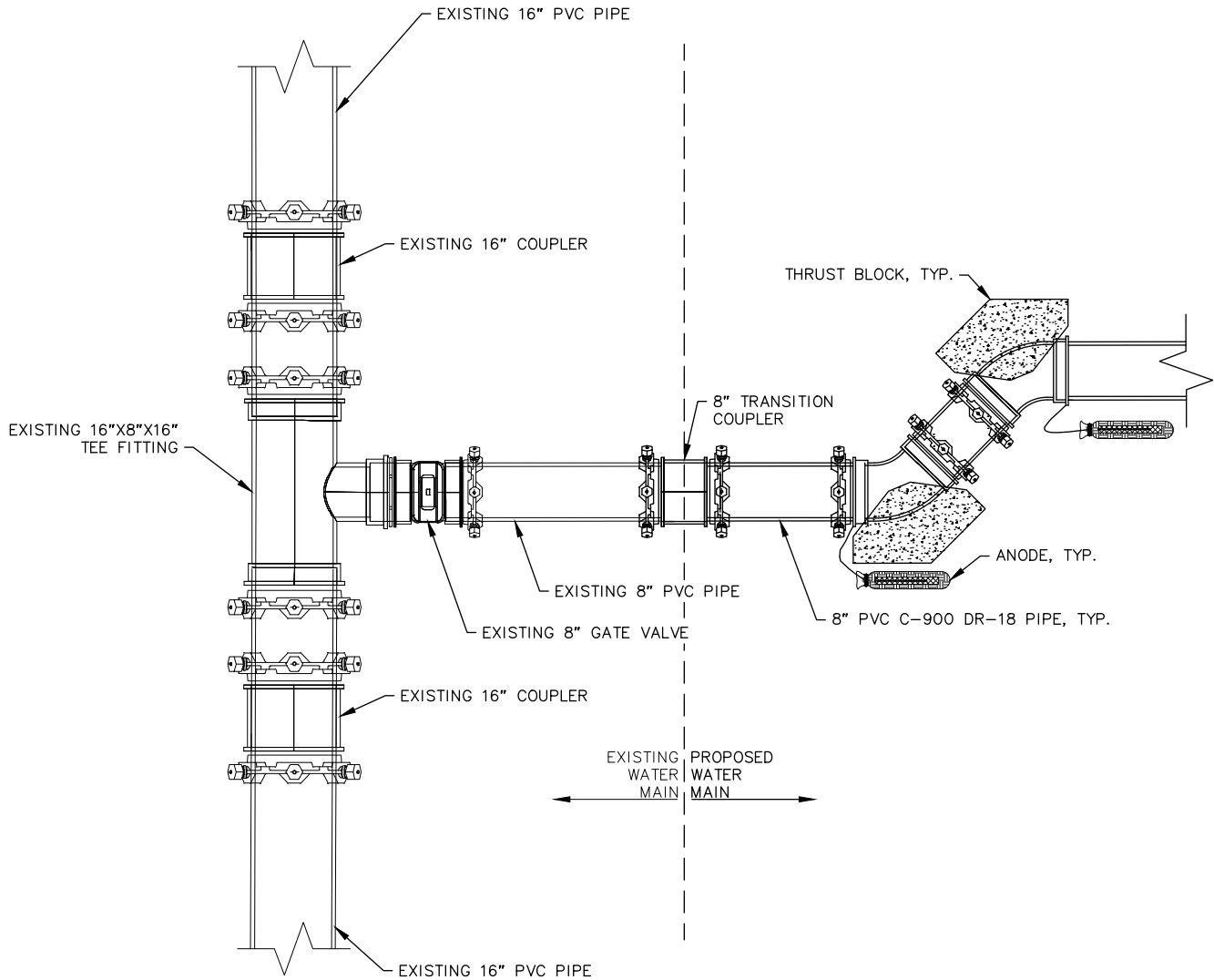
1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY. IT IS ASSUMED THAT A TRENCH BOX WILL BE UTILIZED.
2. TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE III CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER. NATIVE MATERIAL NOT MEETING TYPE III 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 A 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.

TYPICAL UTILITY TRENCH SECTION

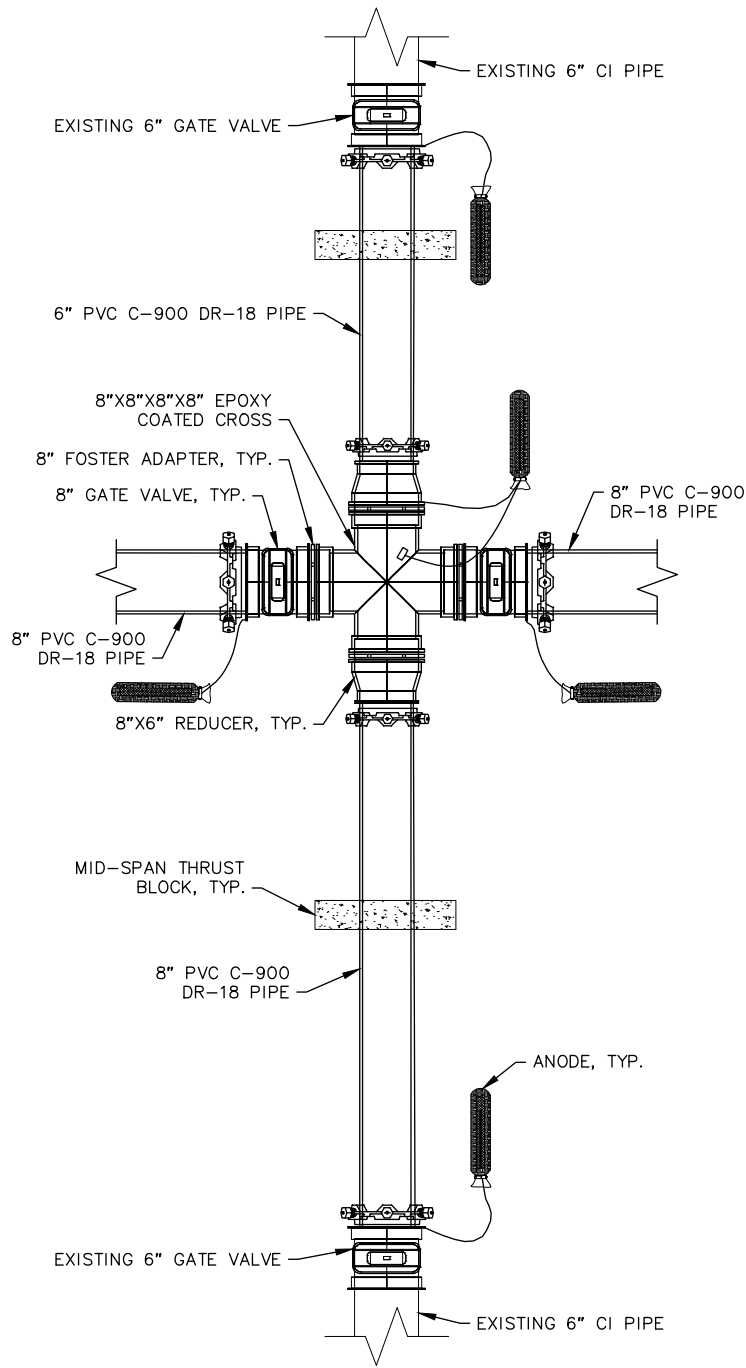
N.T.S.

<div>VERIFY SCALE</div> <div>THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.</div> <div>0"1"</div> <div>IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.</div> <div>FULL SIZE SCALE HORZ SCALE: N/A VERT SCALE: N/A</div>										<div>RECORD DRAWING</div> <div>Note: To be filled out on original drawings upon project completion.</div> <div>1. DATA PROVIDED BY: _____</div> <div>This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.</div> <div>CONTRACTOR: _____</div> <div>BY: _____ TITLE: _____</div> <div>DATE: _____</div> <div>2. DATA TRANSFERRED BY: _____</div> <div>COMPANY: _____</div> <div>DATE: _____</div> <div>3. Based on periodic field observations by the Engineer for an individual under his/her direct supervision, the Contractor-provided data appears to represent the project as constructed.</div> <div>DATA TRANSFER CHECKED BY: _____</div> <div>COMPANY: _____</div> <div>BY: _____ TITLE: _____</div> <div>DATE: _____</div>										<div>REUSE OF DOCUMENTS</div> <div>THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN, AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWUW AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF AWUW.</div>										<div><div>CRW</div><div>ENGINEERING GROUP, LLC</div><div>3940 ARCTIC BLVD, SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AEC0682-AK</div></div>										<div><div>STATE OF ALASKA</div><div>49 TH</div><div>Michah K. Schoring CE-10588</div><div>REGISTERED PROFESSIONAL ENGINEER</div></div>										<div><div>ANCHORAGE WATER & WASTEWATER UTILITY</div><div>AWU</div><div>MUNICIPALITY OF ANCHORAGE</div></div>										<div>MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY</div> <div>42ND AVENUE UPGRADE – PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET</div> <div>DETAILS</div> <div><div>HORZ SCALE: N/A VERT SCALE: N/A</div><div>DATE: AUG 2022</div><div>GRID: SW1733–35</div><div>PROJ. ID.: WW00058</div></div> <div>W12 of W21</div> <div>SHEET</div>																																																	
<table><tr><td>DATA</td><td>DRAWN BY</td><td>CHECKED BY</td><td>DATA</td><td>DRAWN BY</td><td>CHECKED BY</td><td>REV</td><td>DATE</td><td>DESCRIPTION</td><td>BY</td></tr><tr><td>BASE</td><td>----</td><td>----</td><td>TELEPHONE</td><td>----</td><td>----</td><td></td><td></td><td></td><td></td></tr><tr><td>TOPOGRAPHY</td><td>----</td><td>----</td><td>ELECTRIC</td><td>----</td><td>----</td><td></td><td></td><td></td><td></td></tr><tr><td>PROFILE</td><td>----</td><td>----</td><td>CABLE TV</td><td>----</td><td>----</td><td></td><td></td><td></td><td></td></tr><tr><td>SANITARY SEWER</td><td>----</td><td>----</td><td>TRAFFIC SIGNAL</td><td>----</td><td>----</td><td></td><td></td><td></td><td></td></tr><tr><td>STORM SEWER</td><td>----</td><td>----</td><td>DESIGN</td><td>----</td><td>----</td><td></td><td></td><td></td><td></td></tr><tr><td>WATER</td><td>----</td><td>----</td><td>QUANTITIES</td><td>----</td><td>----</td><td></td><td></td><td></td><td></td></tr><tr><td>GAS</td><td>----</td><td>----</td><td>MUN. FINAL CHECK</td><td>----</td><td>----</td><td></td><td></td><td></td><td></td></tr></table>										DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	BASE	----	----	TELEPHONE	----	----					TOPOGRAPHY	----	----	ELECTRIC	----	----					PROFILE	----	----	CABLE TV	----	----					SANITARY SEWER	----	----	TRAFFIC SIGNAL	----	----					STORM SEWER	----	----	DESIGN	----	----					WATER	----	----	QUANTITIES	----	----					GAS	----	----	MUN. FINAL CHECK	----	----					REVISIONS																			
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY																																																																																																				
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TOPOGRAPHY	----	----	ELECTRIC	----	----																																																																																																								
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WATER	----	----	QUANTITIES	----	----																																																																																																								
GAS	----	----	MUN. FINAL CHECK	----	----																																																																																																								

ACAD FILE: J:\JobsData\10142.00 42nd Avenue Upgrade\00 CADD\01 Phase 1\02 AWWU Design\10142.00 Details.dwg PLOT DATE: 8/31/2022 9:56 AM PLOT SCALE: 1"=100'



WATER TIE-IN SCHEMATIC
STA 500+00.00
N.T.S.



WATER TIE-IN SCHEMATIC
STA 520+21.71
N.T.S.

VERIFY SCALE

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

RECORD DRAWING

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

1. DATA PROVIDED BY: _____
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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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PHONE: (907) 562-3252
#AECL882-AK

CONSULTANT

SEAL

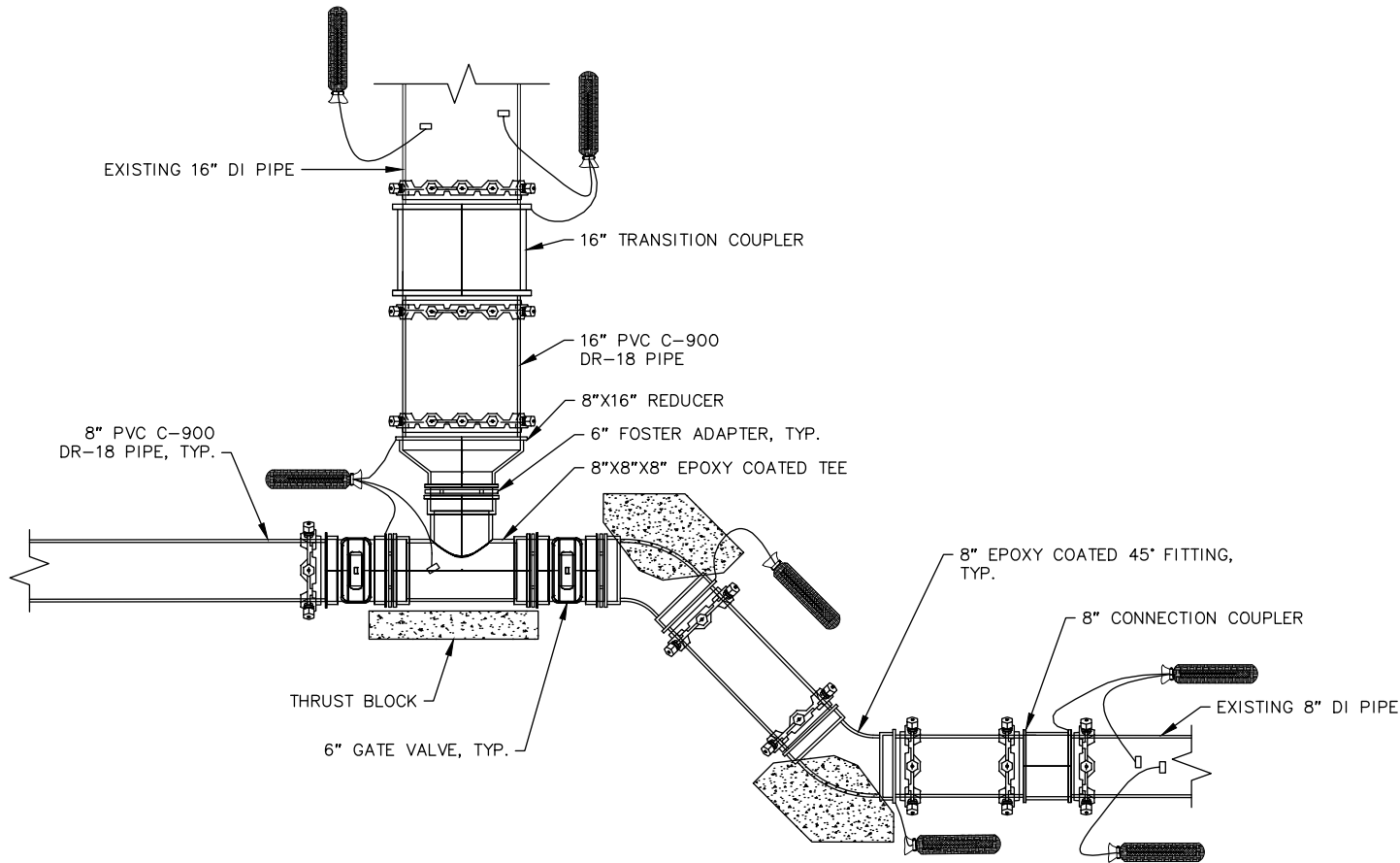


MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

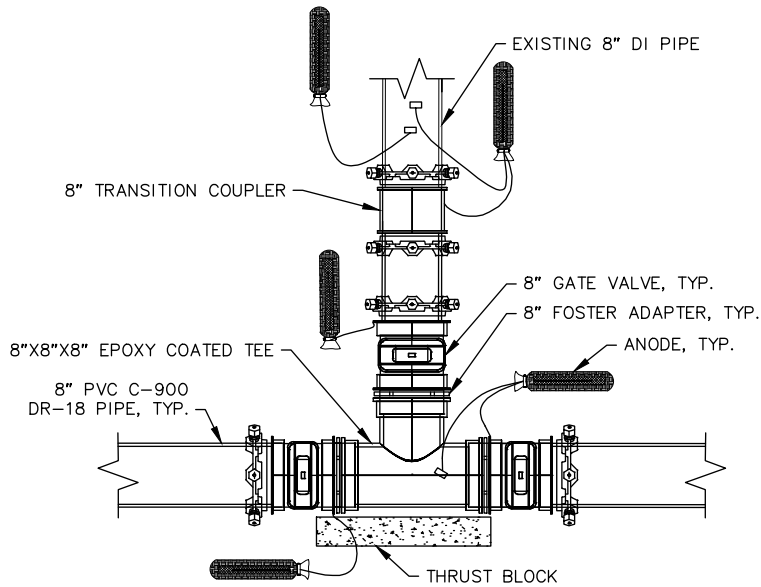
42ND AVENUE UPGRADE - PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

WATER TIE-IN DETAILS

HORZ SCALE: N/A	DATE: AUG 2022	GRID: SW1733-35	W13 of W21
VERT SCALE: N/A			
PROJ. ID.: WW00058			SHEET



1 **WATER TIE-IN SCHEMATIC**
STA 527+15.29
N.T.S.



2 **WATER TIE-IN SCHEMATIC**
STA 513+58.94
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

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: _____
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DATA TRANSFER CHECKED BY: _____

COMPANY: _____

BY: _____ TITLE: _____

DATE: _____

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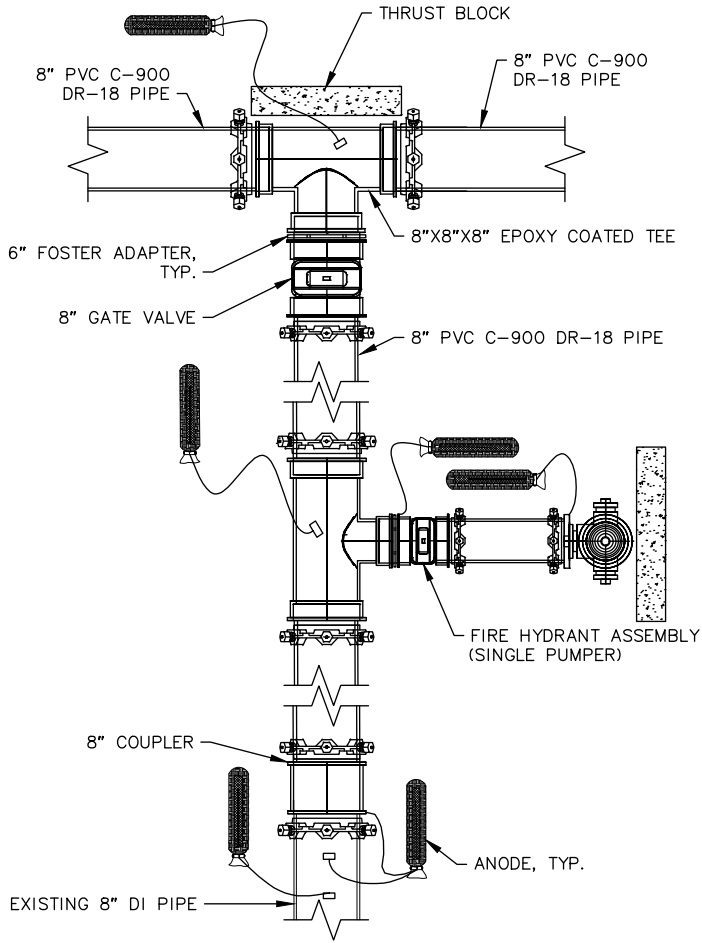
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

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

WATER TIE-IN DETAILS

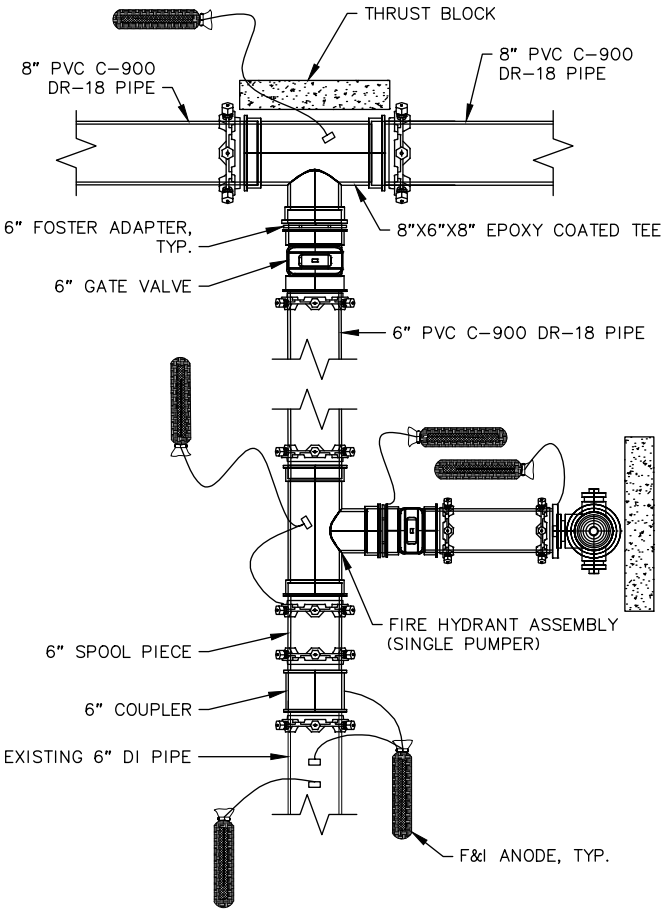
HORZ SCALE: **N/A** DATE: AUG 2022 GRID: SW1733-35
VERT SCALE: **N/A** PROJ. ID.: WW00058

W14 of W21
SHEET



**WATER TIE-IN SCHEMATIC
STA 516+87.04**

N.T.S.



**WATER TIE-IN SCHEMATIC
STA 508+86.17**

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

RECORD DRAWING

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

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

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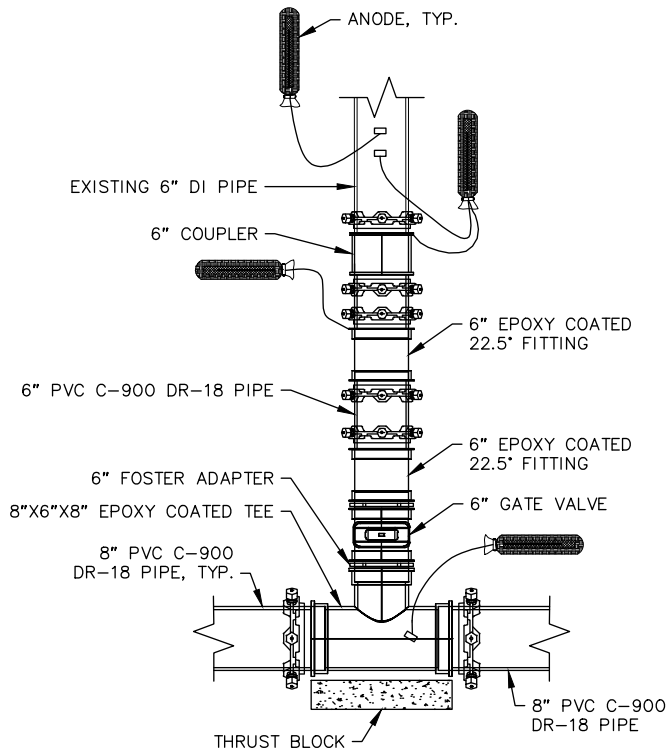
**MUNICIPALITY OF ANCHORAGE
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42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

WATER TIE-IN DETAILS

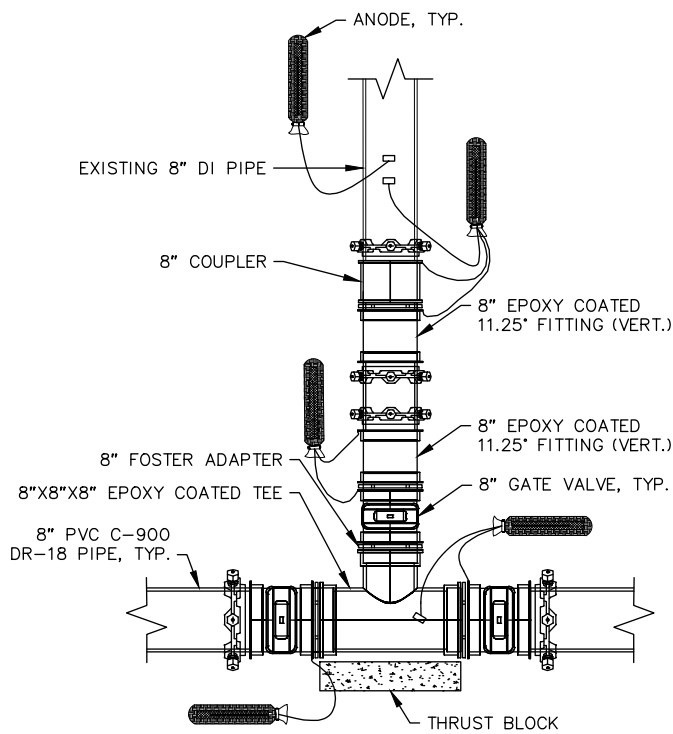
HORZ SCALE: N/A
VERT SCALE: N/A
DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: WW00058

W15
of
W21
SHEET



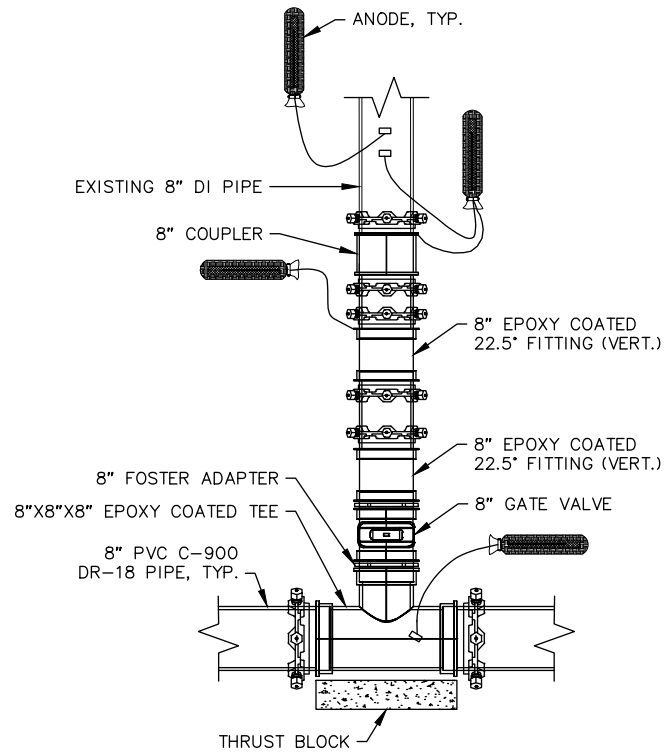
**WATER TIE-IN SCHEMATIC
STA 508+61.85**

N.T.S.



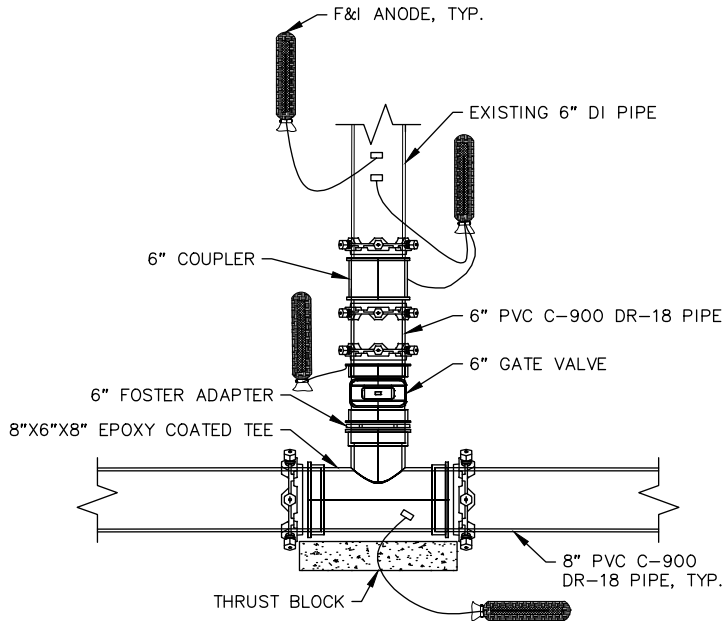
**WATER TIE-IN SCHEMATIC
STA 506+99.97**

N.T.S.



**WATER TIE-IN SCHEMATIC
STA 524+49.93**

N.T.S.



**WATER TIE-IN SCHEMATIC
STA 509+27.41**

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

RECORD DRAWING

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

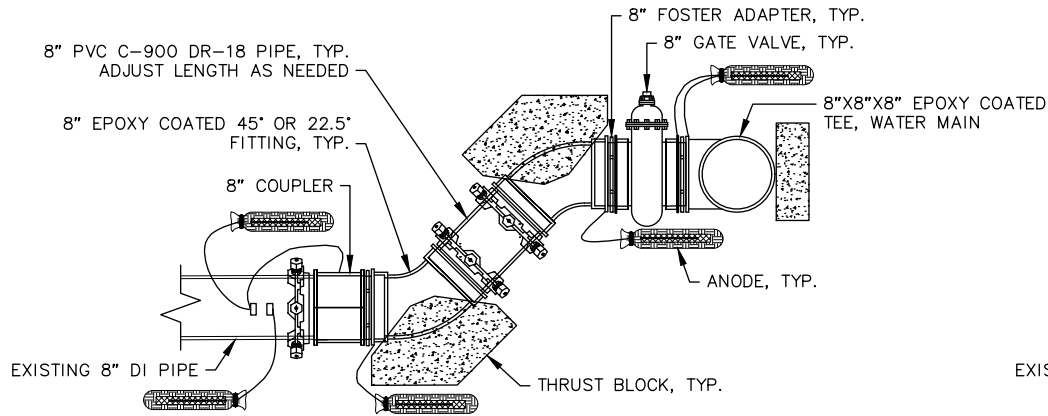
WATER TIE-IN DETAILS

HORZ SCALE: N/A
VERT SCALE: N/A
DATE: AUG 2022
GRID: SW1733-35
PROJ. ID.: WW00058

W16
of
W21
SHEET

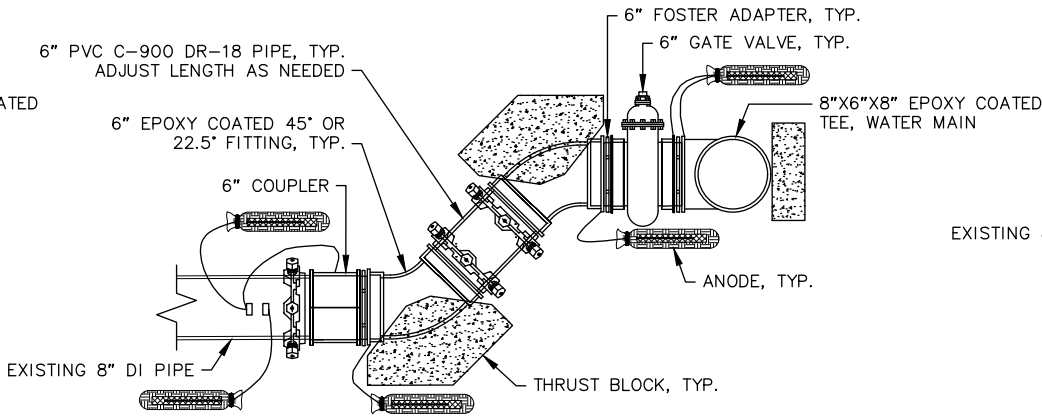
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PLOT SCALE:

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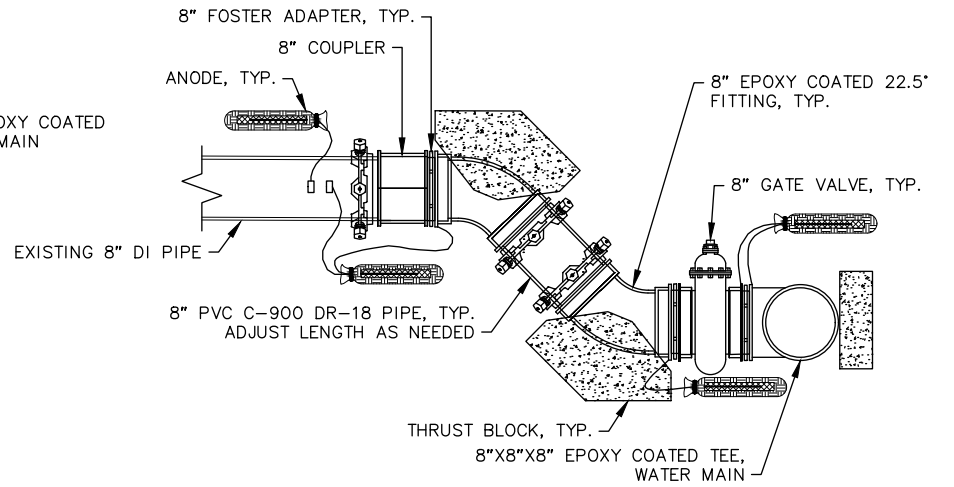
WATER TIE-IN SCHEMATIC
STA 506+99.97

N.T.S.



WATER TIE-IN SCHEMATIC
STA 508+61.85

N.T.S.



WATER TIE-IN SCHEMATIC
STA 524+49.93

N.T.S.

VERIFY SCALE

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

RECORD DRAWING

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

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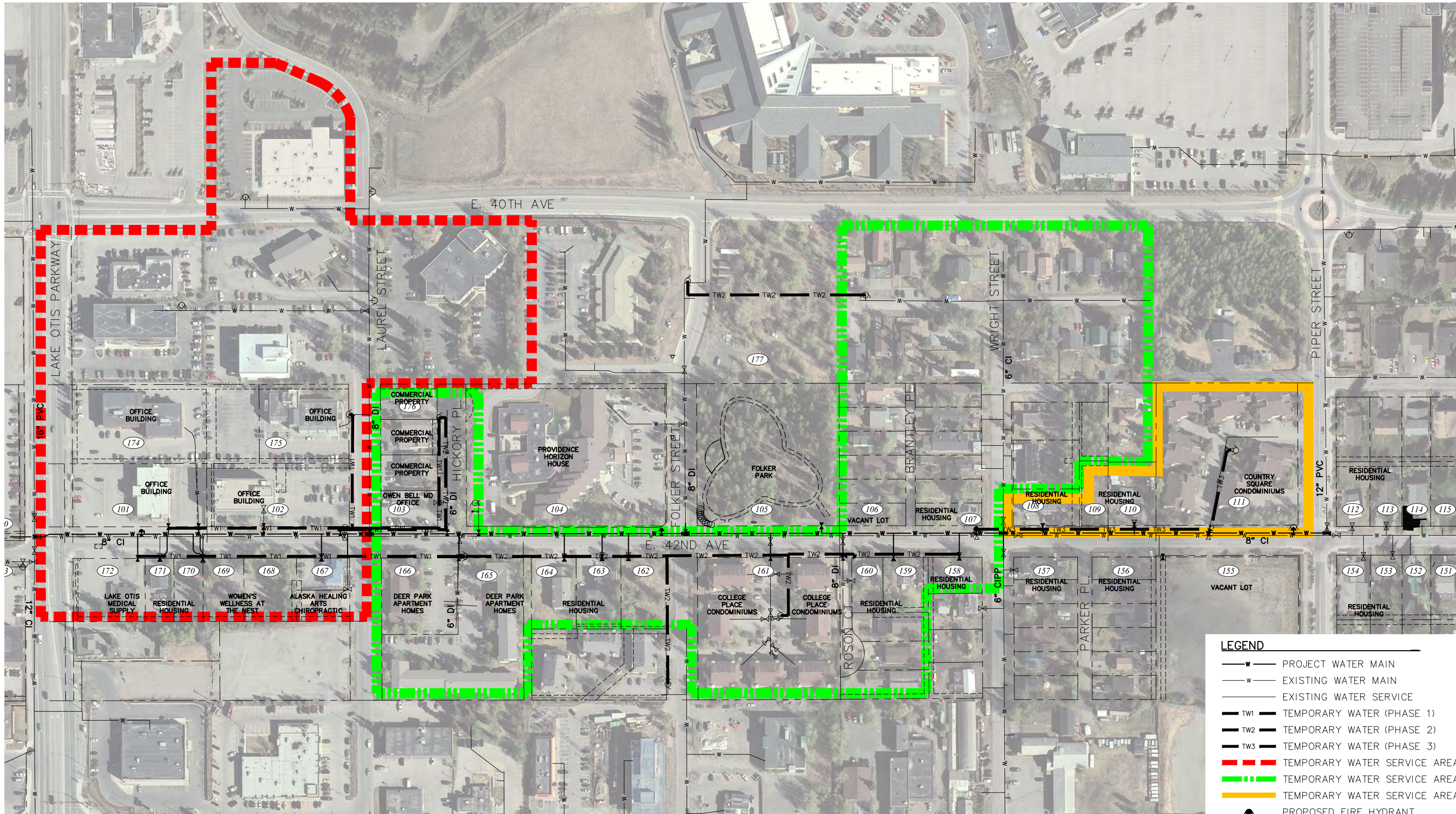


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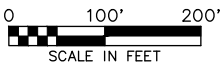
42ND AVENUE UPGRADE – PHASE 1
LAKE OTIS PARKWAY TO PIPER STREET

WATER TIE-IN DETAILS

HORZ SCALE: N/A	DATE: AUG 2022	GRID: SW1733-35	W17 OF W21
VERT SCALE: N/A	PROJ. ID.: WW00058	SHEET	



- LEGEND**
- W — PROJECT WATER MAIN
 - W — EXISTING WATER MAIN
 - W — EXISTING WATER SERVICE
 - TW1 — TEMPORARY WATER (PHASE 1)
 - TW2 — TEMPORARY WATER (PHASE 2)
 - TW3 — TEMPORARY WATER (PHASE 3)
 - 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



VERIFY SCALE

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

RECORD DRAWING

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BY: _____ TITLE: _____

DATE: _____

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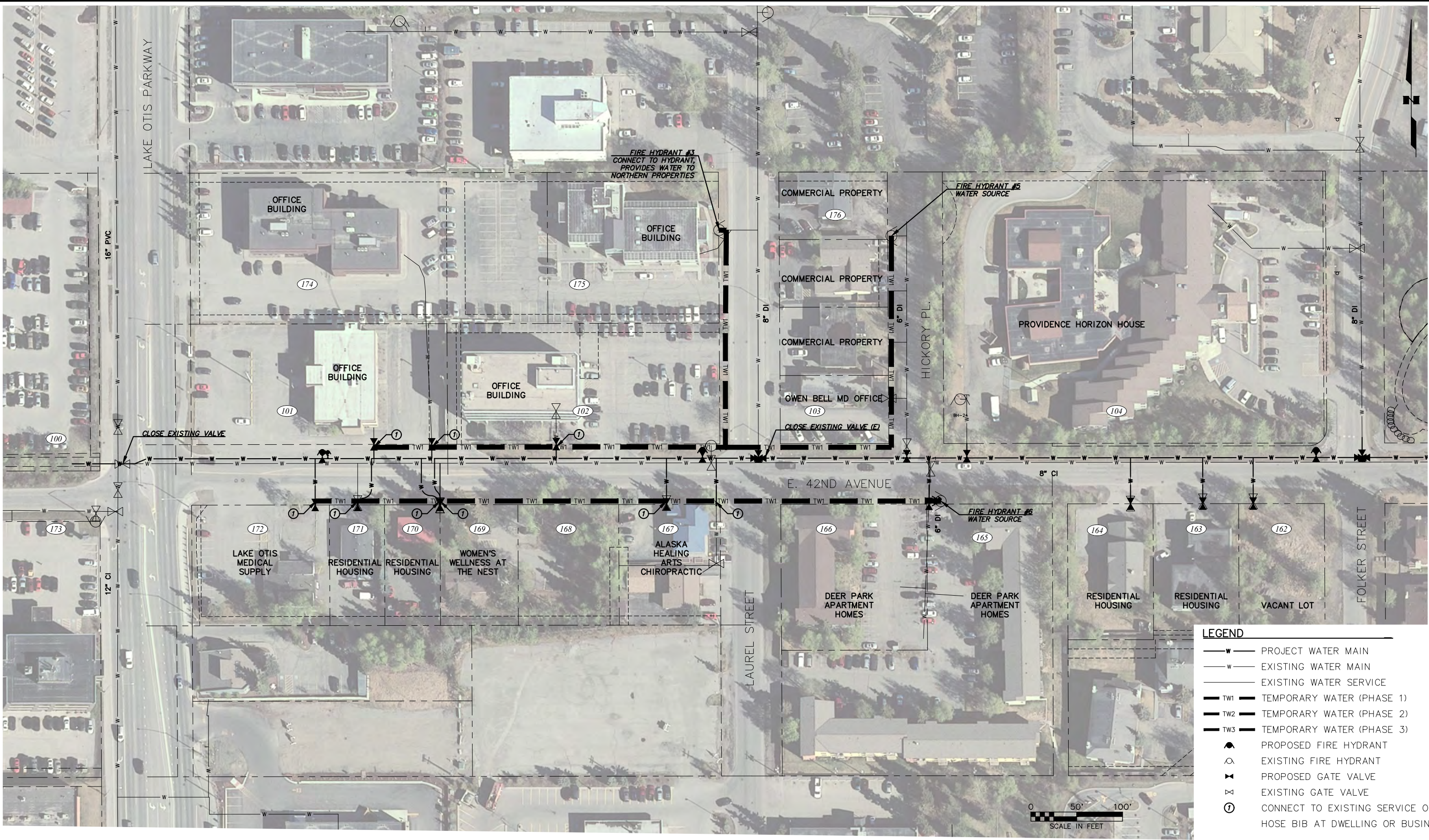


**MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY**

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

**TEMPORARY WATER SERVICE
OVERALL PHASING MAP**

HORIZ SCALE: 1:100	DATE: AUG 2022	GRID: SW1733-35	W18
VERT SCALE: N/A			OF
PROJ. ID.: W000058			W21



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	REV	DATE
BASE	---	---	TELEPHONE	---	---		
TOPOGRAPHY	---	---	ELECTRIC	---	---		
PROFILE	---	---	CABLE TV	---	---		
SANITARY SEWER	---	---	TRAFFIC SIGNAL	---	---		
STORM SEWER	---	---	DESIGN	---	---		
WATER	---	---	QUANTITIES	---	---		
GAS	---	---	MUN. FINAL CHECK	---	---		
PLAN				CHECK			
				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.
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COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

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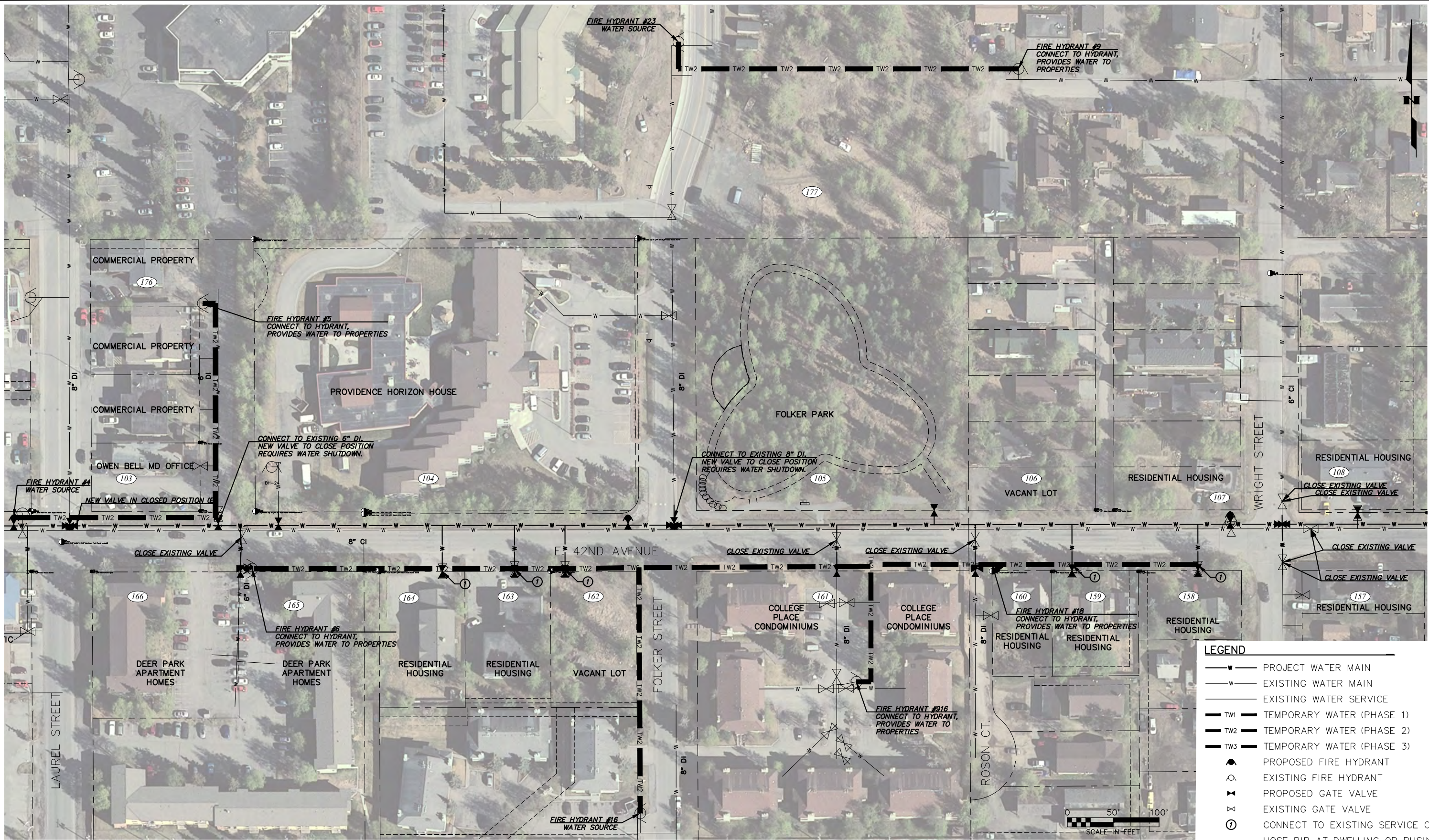


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WATER & WASTEWATER UTILITY

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

**TEMPORARY WATER SERVICE MAP
PHASE 1**

HORZ SCALE: 1:50	DATE: AUG 2022	GRID: SW1733-35	W19 of W21
VERT SCALE: N/A	PROJ. ID: WWO0058	SHEET	



LEGEND

- W — PROJECT WATER MAIN
- W — EXISTING WATER MAIN
- W — 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
- ① CONNECT TO EXISTING SERVICE OR HOSE BIB AT DWELLING OR BUSINESS

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

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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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 2022
GRID: SW1733-35
PROJ. ID.: WWO00058

SHEET W20 OF W21



LEGEND

- W PROJECT WATER MAIN
- w 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
- ① CONNECT TO EXISTING SERVICE OR HOSE BIB AT DWELLING OR BUSINESS

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

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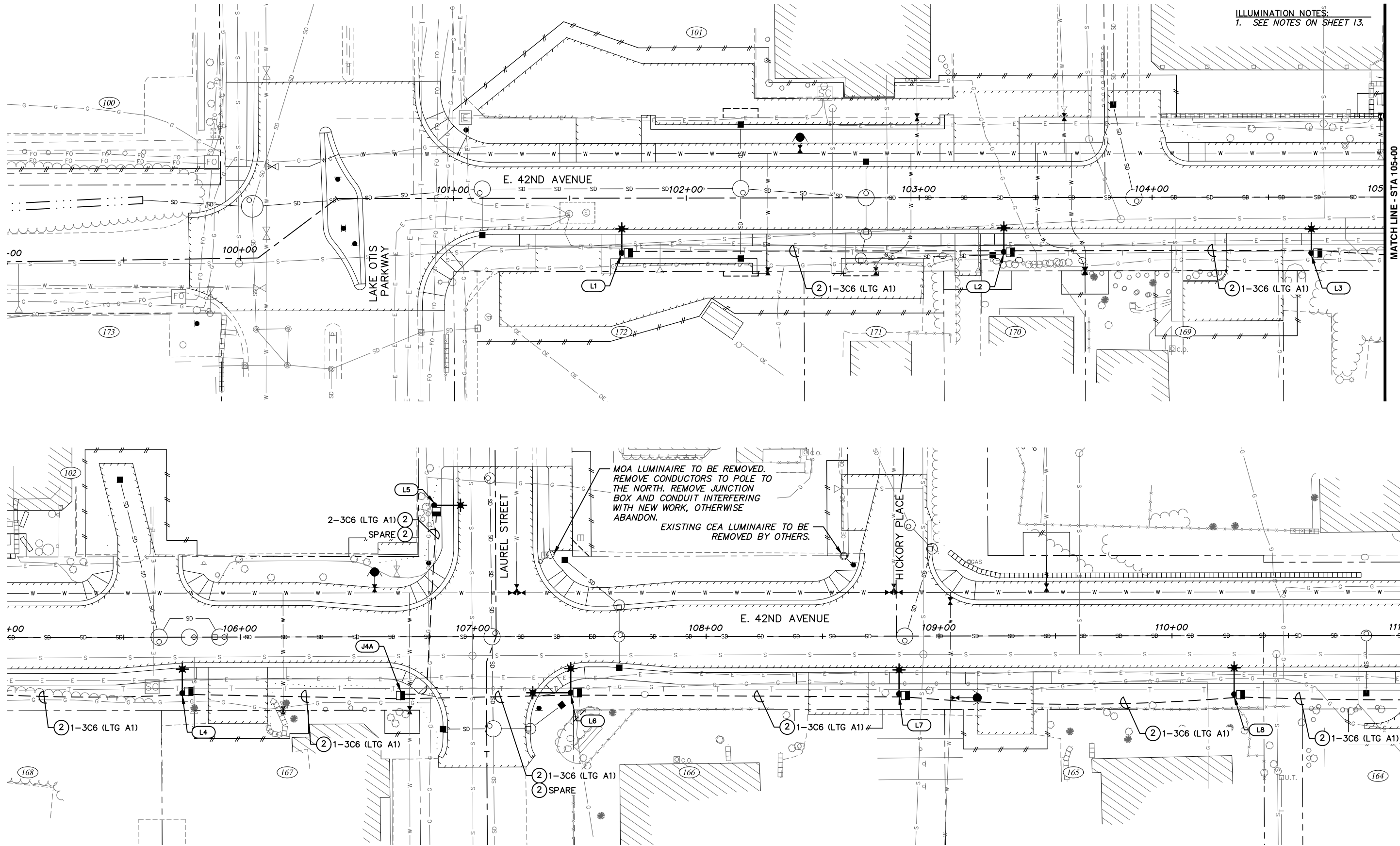
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WATER & WASTEWATER UTILITY**

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

**TEMPORARY WATER SERVICE MAP
PHASE 3**

HORZ SCALE: 1"=50'	DATE: AUG 2022	GRID: SW1733-35	W21 of W21
VERT SCALE: N/A	PROJ. ID.: WWO0058	SHEET	

File: I:\data\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.

MATCH LINE - STA 105+00

MATCH LINE - STA 111+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: _____
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	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC SCALE				40' 20' 0' 20' 40'			
FIELD BOOKS				BM NO.	LOCATION	ELEV.	REV
DESIGN CRW BOOK No. 197, 198 & 201				GAAB 69	See MOA Benchmark Book, Page D-22	162.47	
STAKING				CB 7B	See MOA Benchmark Book, Page D-18	161.20	
BASIS OF THIS DATUM GAAB 1972 ADJUST				REV	DATE	DESCRIPTION	BY
ASBUILT							
CONTRACTOR							
INSPECTOR							

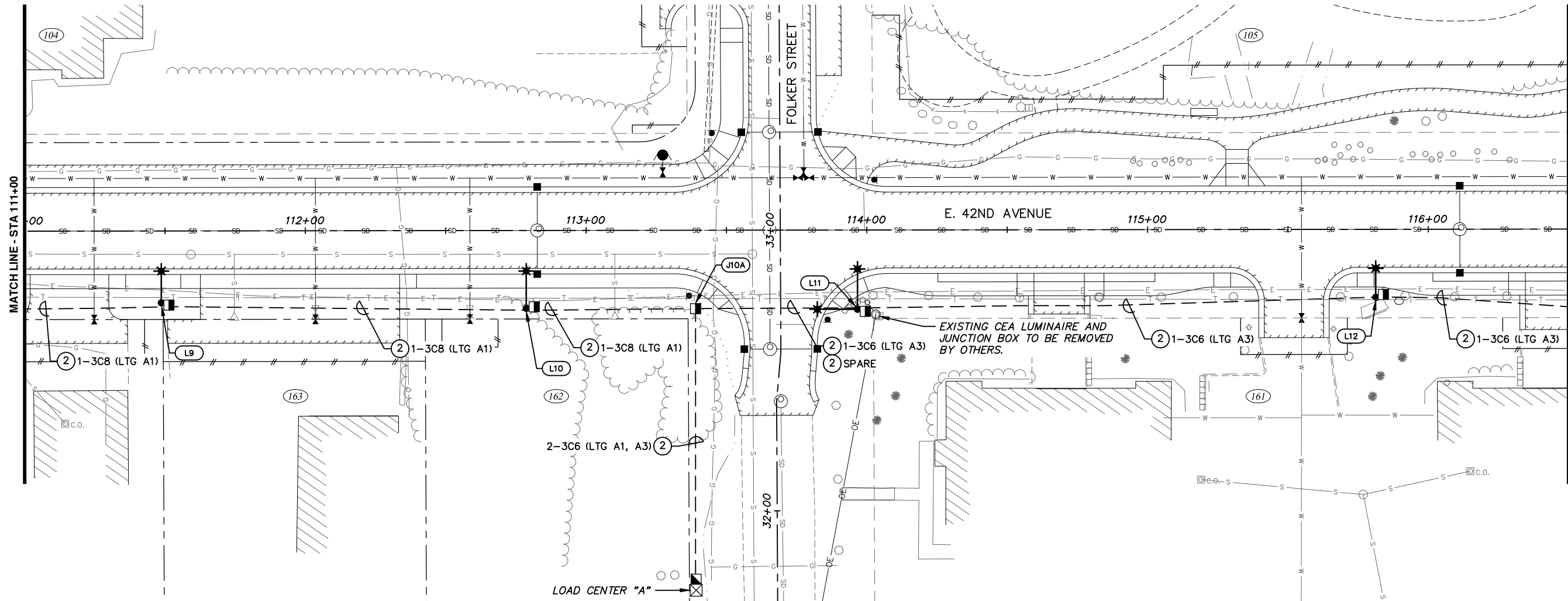
CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AEC0882-AK

STATE OF ALASKA
49 TH
TYLER R. KEENE
EE-14401
REGISTERED PROFESSIONAL ENGINEER

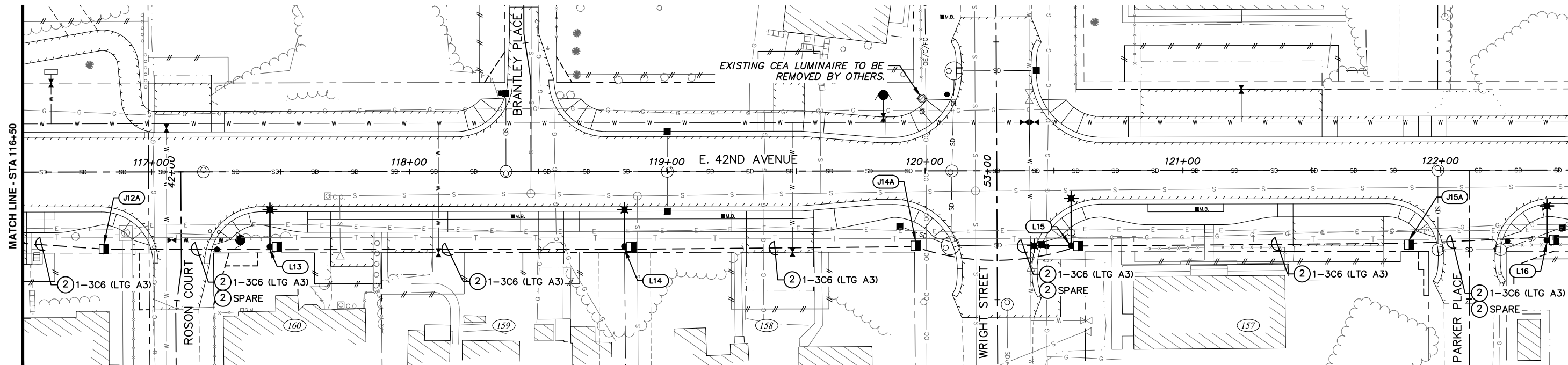


PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT					
18-06	42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	SCHED C			
ILLUMINATION PLAN					
E. 42ND AVENUE BOP TO STA 111+00					
SCALE HOR. 1"=20' VER. N/A	GRID SW733, SW734, SW735	DATE AUG 2022	STATUS 65%		
SHEET 11 of 15					

File: I:\JobData\10142.00 42nd Avenue Upgrade\00 CADD\01 Working Set\03 Electrical\Phase 1\10142.00 Illumination Plan - Phase 1.dwg



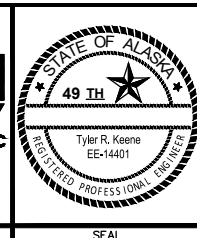
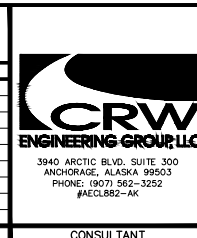
ILLUMINATION NOTES:
1. SEE NOTES ON SHEET 13.



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: _____
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COMPANY: _____ DATE: _____
BY: _____

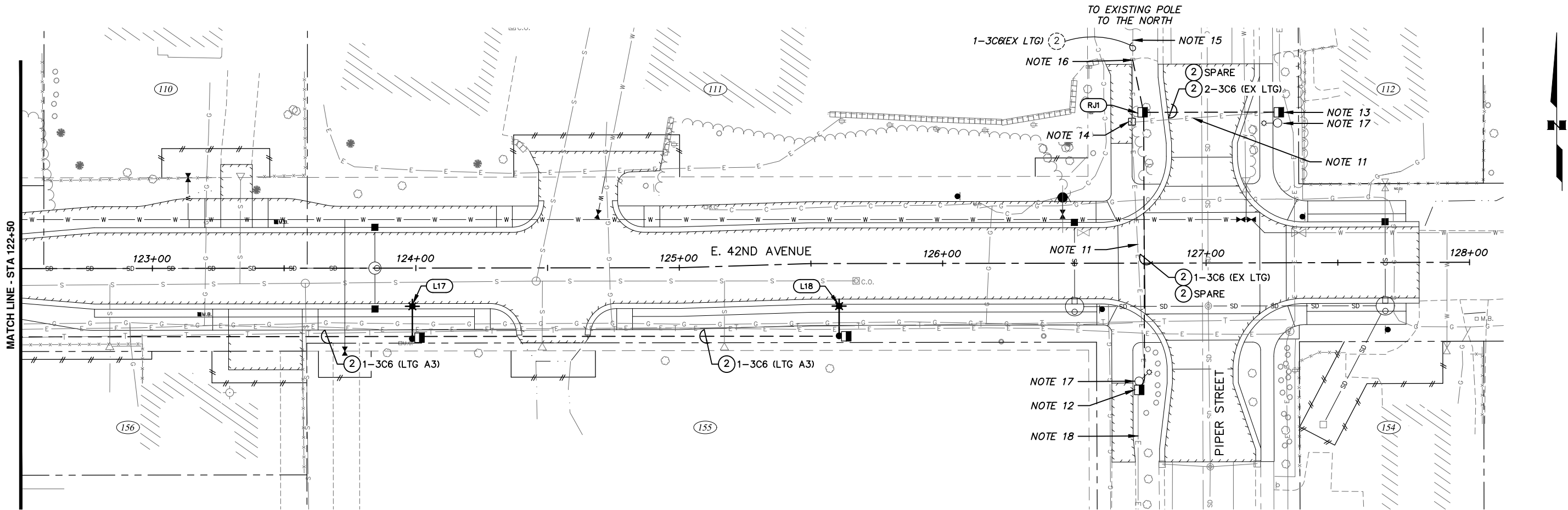
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PROFILE	RB	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
DESIGN CRW BOOK No. 197, 198 & 201	GAAB 69	See MOA Benchmark Book, Page D-22	162.47				
STAKING	CB 7B	See MOA Benchmark Book, Page D-18	161.20				
ASBUILT							
CONTRACTOR							
INSPECTOR							
PLAN CHECK							
CONSTRUCTION RECORD							
VERTICAL DATUM							
REVISIONS							
CONSULTANT							
SEAL							



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
18-06	42ND AVENUE UPGRADE - PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET	SCHED C	
ILLUMINATION PLAN			
E. 42ND AVENUE STA 111+00 TO STA 122+50			
SCALE	HOR. 1"=20' VER. N/A	GRID SW733, SW734, SW735 DATE AUG 2022	STATUS 65% SHEET 12 of 15

File: I:\JobData\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

NEW CONDUIT/CONDUCTOR TAG

② 1-3C8LTG A1

CONDUIT SIZE
OF CABLES
OF CONDUCTORS PER CABLE

CIRCUIT #
TYPE OF CIRCUIT
SIZE OF CONDUCTORS

EXISTING CONDUIT/
NEW CONDUCTOR TAG

② 1-3C8LTG R4

CONDUIT SIZE
OF CABLES
OF CONDUCTORS PER CABLE

CIRCUIT #
TYPE OF CIRCUIT
SIZE OF CONDUCTORS

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. 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, OR DRAINAGE DITCHES. 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

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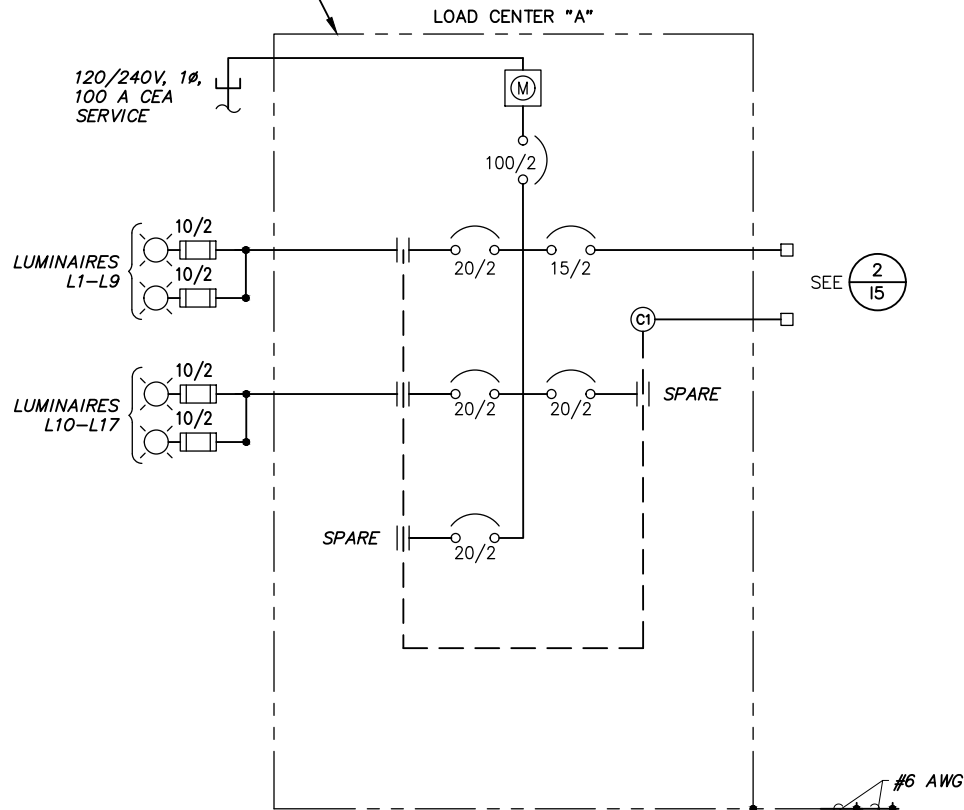
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BASE	TS	AR
TOPOGRAPHY	TS	AR
PROFILE	RB	EJ
STORM SEWER	AA	JH
WATER/SANITARY SEWER	AA	JK
GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC SCALE				40' 20' 0' 20' 40'			
FIELD BOOKS				BM NO.	LOCATION	ELEV.	REV
DESIGN CRW BOOK No. 197, 198 & 201				GAAB 69	See MOA Benchmark Book, Page D-22	162.47	
STAKING				CB 7B	See MOA Benchmark Book, Page D-18	161.20	
ASBUILT							
CONTRACTOR							
INSPECTOR							
BASIS OF THIS DATUM GAAB 1972 ADJUST							
PLAN CHECK							
CONSTRUCTION RECORD							
VERTICAL DATUM							
REVISIONS							

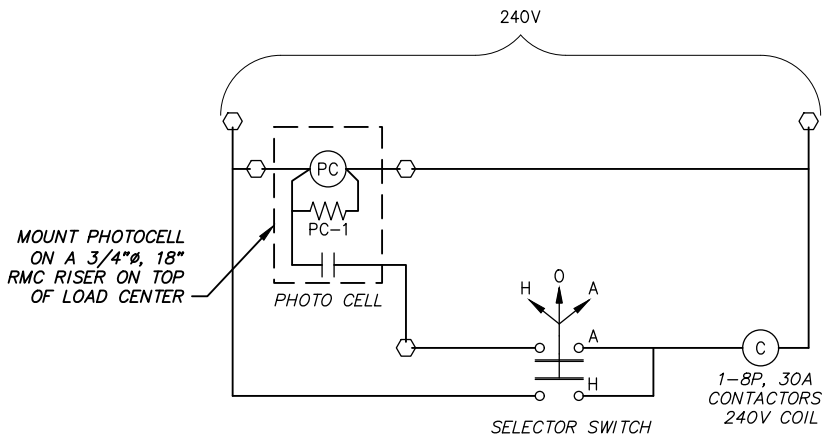


PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT				
18-06		42ND AVENUE UPGRADE -- PHASE 1 LAKE OTIS PARKWAY TO PIPER STREET		SCHED C
ILLUMINATION PLAN				
E. 42ND AVENUE STA 122+50 TO EOP				
SCALE HOR. 1"=20' VER. N/A		GRID SW1733, SW1734, SW1735		13 of 15
		DATE AUG 2022 STATUS 65%		
				SHEET

PLACE PLACARD ON FRONT OF LOAD CENTER INSCRIBED WITH THE FOLLOWING:
MAXIMUM FAULT CURRENT = #####
CALCULATED ###/###/####



1 LOAD CENTER "A" POWER ONE-LINE
NTS



2 LOAD CENTER PHOTOELECTRIC SCHEMATIC
NTS

LOAD CENTER NO. A TYPE: 1A
LOCATION: STATION - 31+72.1, OFFSET - 26.2 LT, IMAGE DRIVE
1-8 POLE, 30 AMP CONTACTORS
MAIN BREAKER A: 2 POLE, 100 AMPS, 240 VOLTS

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

CKT.	CIRCUIT DESCRIPTION	KVA	AMP		AMP	KVA	CIRCUIT DESCRIPTION	CKT.
A1	LUMINAIRES L1-L10	1.0	20/2	1	15/2	0.2	PHOTOELECTRIC CONTROL	A2
A3	LUMINAIRES L11-L18	1.2	20/2	3	20/2		SPARE	A4
A5	SPARE		20/2	5				
				7				
				9				
				11				
				13				
				15				
				17				
				19				

TOTAL CONNECTED LOAD = 2.3 KVA
TOTAL AMPS = 9.6 A

VOLTAGE DROPS					
CIRCUIT	SIZE	LENGTH	VOLTAGE	CURRENT	V.D.
A1	#6 AWG	1426	240V	3.97	2.45%
A3	#6 AWG	1320	240V	4.79	2.73%



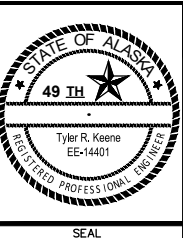
3 LOAD CENTER "A" ARC FLASH WARNING LABEL
NTS

- LOAD CENTER NOTES:
- 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.
 - LABEL THE FRONT WITH 3M SCOTCHCAL REFLECTIVE DECALS NOTING OWNERSHIP: MOA, PURPOSE: LU (ILLUMINATION) AND THE VOLTAGE.
 - 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.

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GAS	TS	AR
TELEPHONE	TS	AR
ELECTRIC	JH	TK
DESIGN	RB	EJ
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
-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 AUG 2022 STATUS 65%	SHEET 15 of 15