



# MUNICIPALITY OF ANCHORAGE PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

CAMROSE DRIVE STORM DRAINAGE PROJECT

PROJECT NUMBER: 20-27 JUNE 2023 95% DESIGN

PREPARED BY:



APPROVED BY:

BRANDON TELFORD, P.E. ACTING MUNICIPAL ENGINEER

SHEET INDEX							
SHEET NO.	NO. DESCRIPTION SCHEDULE						
STORM DRAIN							
SD1	STORM DRAIN PLAN & PROFILE	SCHED B					
SD2	STORM DRAIN PLAN & PROFILE	SCHED B					
SD3	STORM DRAIN PLAN & PROFILE	SCHED B					
SD4	STORM DRAIN PLAN & PROFILE	SCHED B					
SD5	STORM DRAIN DETAILS	SCHED B					
SD6	STORM DRAIN DETAILS	SCHED B					
SD7	STORM DRAIN DETAILS	SCHED B					
SD8	STORM DRAIN DETAILS	SCHED B					
SD9	STORM DRAIN DETAILS	SCHED B					
SD10	STREAMBANK RECONSTRUCTION DETAILS	SCHED B					
SD11	STREAMBANK RECONSTRUCTION DETAILS	SCHED B					
SD12	STREAMBANK RECONSTRUCTION DETAILS SCHED B						
SD13	STORM DRAIN DETAILS SCHED B						
SD14	STORM DRAIN SUMMARY TABLES SCHED B						
SEWER							
SS1	COVER SHEET	SCHED C					
SS2	KEY MAP, NOTES & SEWER DETAILS	SCHED C					
SS3	SEWER PLAN & PROFILE	SCHED C					
ILLUMINATION							
I1	ILLUMINATION PLAN	SCHED D					
12	ILLUMINATION AND TRAFFIC INTERCONNECT PLAN	SCHED D					
13	ILLUMINATION AND INTERCONNECT SCHEDULES & DETAILS	SCHED D					
14	LC-LU POWER ONE-LINE, PANEL SCHEDULE, AND CONTROL SCHEMATIC	SCHED D					
HEAT TRACE							
E1	HEAT TRACE PLAN	SCHED B					
E2	HEAT TRACE CONTROL SCHEMATIC & HEAT TRACE LOAD CENTER DETAILS	SCHED B					
E3	HEAT TRACE LOAD CENTER SCHEDULE & POWER ONE-LINE	SCHED B					
E4	HEAT TRACE DETAILS	SCHED B					

WORK SCHEDULES					
A ROADWAY IMPROVEMENTS					
В	DRAINAGE IMPROVEMENTS				
C SEWER IMPROVEMENTS					
D JULIUMINATION & SIGNALIZATION IMPROVEMENTS					

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<ul> <li>BASED ON PERIODIC FIELD OBSERVATIONS BY SUPERVISION), THE CONTRACTOR—PROVIDED D.</li> </ul>	THE ENGINEER OR AN ATA APPEARS TO REPRE	SENT THE PROJECT AS	S/HER DIRECT CONSTRUCTED.	
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FILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION
RM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page
ER/SANITARY SEWER	JM	£	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA
1	TS	AR	STAKING		Benchmarks Map Gallery Application
EPHONE	TS	AR			
CTRIC	JH	TK			
IGN	JM	JH	ASBUILT		
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LIMINARY/FINAL	JM	JH	INSPECTOR		
NICIPAL/STATE	JM	JH			
PLAN (	CHECK		CONSTRUCTION RECORD		VERTICAL DATUM







PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

CAMROSE DRIVE STORM DRAINAGE PROJECT

SHEET INDEX

SCALE HOR. N/A VER. N/A GRID SW1538, SW1638 DATE JUNE 2023 STATUS 95%

G2<sub>of</sub> G5

#### GENERAL NOTES

- ALL WORK SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE (MOA) STANDARD SPECIFICATIONS, DATED 2015, (HEREINAFTER REFERRED TO AS MASS), THE LATEST EDITION OF THE ANCHORAGE WATER AND WASTEWATER UTILITY (AWWU) DESIGN AND CONSTRUCTION PRACTICES MANUAL (DCPM) AND THE SPECIAL PROVISIONS.
- 2. CAUTION!!! THE LOCATION OF THE EXISTING FEATURES AND UTILITIES SHOWN IN THESE DRAWINGS (PLAN & PROFILES) ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL FEATURES AND UTILITIES ENCOUNTERED AND RECORD THEIR LOCATION ON THE CONTRACT RECORD DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE. CONTRACTOR SHALL SHORE EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED ON THE DRAWINGS. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL
- 3. PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS WHICH ARE NOT SPECIFICALLY INDICATED AS BEING PROVIDED BY THE OWNER IN THE SPECIAL PROVISIONS. CONTRACTOR SHALL ADHERE TO ALL PERMIT REQUIREMENTS. THE PERMITS SHALL BE MAINTAINED ON THE PROJECT SITE. COPIES SHALL BE GIVEN TO THE ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- ALL WORK IN CLOSE PROXIMITY TO EXISTING OVERHEAD/UNDERGROUND TELEPHONE, CABLE, FIBER OPTIC, GAS, AND ELECTRIC UTILITIES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, CODES AND GUIDELINES AND THE SHORING AND CLEARANCE REQUIREMENTS OF THE SERVING UTILITY. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 5. LIMITS OF ROADWAY EXCAVATION SHOWN ON THE DRAWINGS ARE APPROXIMATE. ACTUAL LIMITS SHALL BE DETERMINED IN THE FIELD BY THE ENGINEER DURING CONSTRUCTION OPERATIONS.
- 6. GEOTECHNICAL (SOILS) INFORMATION IS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL WORK SHALL BE PERFORMED WITHIN PUBLIC RIGHT-OF-WAY, PUBLIC USE EASEMENT, SLOPE EASEMENT, TEMPORARY CONSTRUCTION EASEMENT, DRAINAGE EASEMENT, ELECTRIC EASEMENT, INTRAGOVERNMENTAL USE PERMIT OR, TEMPORARY CONSTRUCTION PERMIT AREAS. THE EASEMENTS AND TEMPORARY CONSTRUCTION PERMITS ACQUIRED FOR THIS PROJECT MAY HAVE RESTRICTIONS. SEE CONTRACT DOCUMENTS FOR RESTRICTIONS.
- CONTRACTOR SHALL RESTORE DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, TO PRE-CONSTRUCTION CONDITIONS, UNLESS OTHERWISE DIRECTED BY ENGINEER. PAYMENT FOR RESTORING DISTURBED PROPERTY OUTSIDE OF IDENTIFIED CONSTRUCTION LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE. DISTURBED AREAS NOT BEING PAVED OR FINISHED WITH GRAVEL/CONCRETE SHALL BE TOPSOILED AND SEEDED WITH SCHEDULE A SEEDING MIX UNLESS OTHERWISE NOTED.
- PROJECT CLEARING AND GRUBBING LIMITS SHALL COINCIDE WITH THE LIMITS OF DISTURBANCE AS SHOWN ON THE DEMOLITION (B) SHEETS. CONTRACTOR SHALL OBTAIN APPROVAL OF THE CLEARING AND GRUBBING LIMITS BY THE ENGINEER PRIOR TO CLEARING AND GRUBBING. SEE SPECIFICATIONS FOR MORE INFORMATION. CONTRACTOR SHALL CLEAR TREE BRANCHES/LIMBS PER TREE CLEARING DETAILS SHOWN ON SHEET D5.
- 10. SLOPE LIMITS SHOWN ON THE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL DETERMINE THE ACTUAL SLOPE LIMITS BASED ON PRECONSTRUCTION SURVEY DATA.
- 11. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, THE CONTRACTOR SHALL SAW CUT AND REMOVE ADDITIONAL PAVEMENT BEYOND THE INITIAL SAW CUT, A MINIMUM OF 1-FOOT ONTO UNDISTURBED ASPHALT. AT TRANSVERSE JOINTS FINAL SAW CUT LINE SHALL BE SKEWED 15. - 25. PER DETAIL 2, SHEET D4. ASPHALT TACK COAT SHALL BE APPLIED BY CONTRACTOR TO THE SAWN FACE OF ASPHALT PRIOR TO BEGINNING PAVING.
- 12. PAVEMENT CROSS SLOPE ON SIDE STREETS SHALL VARY AT INTERSECTIONS TO PROVIDE POSITIVE DRAINAGE. SEE ROADWAY (R) SHEETS FOR INTERSECTION LAYOUTS.
- 13. ALL WORK AND MATERIALS REQUIRED FOR REMOVING ANY LITTER OR DEBRIS CREATED BY CONSTRUCTION OPERATIONS WITHIN THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 14. ALL ORGANIC MATERIAL SHALL BE REMOVED FROM THE SUBGRADE TO A DEPTH TO BE DETERMINED BY THE ENGINEER. NO ORGANIC MATERIAL OR OTHER DELETERIOUS MATERIAL SHALL BE UTILIZED FOR BACKFILL.
- 15. THE CONTRACTOR SHALL SUBMIT RECORD SURVEY NOTES WITH THE RECORD DRAWINGS.
- 16. ROADWAY/DRIVEWAY EXCAVATION SHALL BE MEASURED BY EXCAVATED CROSS-SECTION AND SHALL BE LIMITED TO THE PAY LIMITS IDENTIFIED IN THE TYPICAL CROSS SECTIONS SHOWN ON THE C SHEETS, UNLESS ADDITIONAL EXCAVATION IS DIRECTED BY THE ENGINEER IN WRITING.
- 17. THE PROJECT ROADWAY CENTERLINE STATIONING IS RIGHT-OF-WAY CENTERLINE PER SURVEY

TITLE:

- CONTROL DRAWINGS UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL DRAWINGS FOR HORIZONTAL AND VERTICAL CONTROL
- 18. ALL CURB LOCATIONS, RADIUS MEASUREMENTS AND ELEVATIONS ARE TO THE TOP BACK OF CURB (TBC) UNLESS OTHERWISE NOTED.
- 19. MAINTAIN A MINIMUM OF TEN FEET (10") HORIZONTAL AND EIGHTEEN INCHES (18") SEPARATION BETWEEN THE OUTSIDE OF PIPES FOR WATER MAINS AND SERVICES TO SANITARY SEWER OR STORM DRAIN. INSTALL INSULATION BOARD (R-18) BETWEEN THE PIPES WHEN THE VERTICAL SEPARATION IS BETWEEN EIGHTEEN INCHES (18") AND THIRTY-SIX INCHES (36"). INSULATION MAY BE OMITTED WHEN THE VERTICAL SEPARATION IS GREATER THAN THIRTY-SIX INCHES (36"). WHERE STORM OR SEWER CROSS A WATER LINE, THE JOINTS OF ALL PIPES ARE TO HAVE A MINIMUM SEPARATION OF NINE FEET (9') FROM THE CROSSING.
- 20. EXISTING WATER AND SEWER SERVICE LINES ARE NOT SHOWN IN THE PROFILES UNLESS SPECIFICALLY CALLED OUT.
- 21. ALL CURB AND GUTTER INCLUDING MEDIAN CURB SHALL BE PAID AS "P.C.C. CURB AND GUTTER (ALL
- 22. EXISTING SHALLOW (CABLE, ELECTRIC, TELEPHONE, GAS, FIBER OPTIC, ETC) UTILITIES AND RELOCATED PROPOSED SHALLOW UTILITIES ARE NOT SHOWN IN THE TYPICAL CROSS SECTIONS. EXISTING SHALLOW UTILITY CROSSINGS ARE SHOWN AT AN ASSUMED ELEVATION IN THE PROFILES UNLESS OTHERWISE NOTED. RELOCATED PROPOSED SHALLOW UTILITIES ARE NOT SHOWN IN THE PLANS OR PROFILES. RELOCATED PROPOSED SHALLOW UTILITIES ARE TO BE RELOCATED BY OTHERS AS SHOWN IN THE UTILITY RELOCATION PLANS, SEE CONTRACT DOCUMENTS FOR MORE INFORMATION.
- 23. THE MATCH EXISTING ELEVATIONS AS SHOWN IN THE PLANS ARE APPROXIMATE. CONTRACTOR SHALL ADJUST PROPOSED GRADES AS REQUIRED TO MATCH INTO EXISTING ELEVATIONS PER THE DIRECTION OF THE ENGINEER
- 24. ALL FILL, USABLE EXCAVATION, AND TRENCH BACKFILL SHALL BE COMPACTED TO NINETY-FIVE PERCENT (95%) OF MAXIMUM DENSITY AT OPTIMUM MOISTURE CONTENT, PER MASS DIVISION 20 EARTHWORK, BASED ON MODIFIED PROCTOR TEST VALUES. ALL FILLS SHALL BE PLACED IN LIFTS NOT EXCEEDING 12-INCHES.
- 25. FIRE HYDRANTS SHALL BE ADJUSTED TO FINAL GRADE BY AWWU O&M DIVISION ON REIMBURSABLE BASIS. THE CONTRACTOR IS TO PROVIDE WRITTEN NOTICE TO THE ENGINEER A MINIMUM OF SEVEN (7) DAYS PRIOR TO THE NEED FOR FINAL FIRE HYDRANT ADJUSTMENT. THE WRITTEN NOTICE IS TO CONTAIN, AT A MINIMUM, THE MANUFACTURER AND MODEL NUMBER OF THE HYDRANT AND VERTICAL ADJUSTMENT NEEDED IN SIX (6") INCREMENTS.
- 26. THE HORIZONTAL AND VERTICAL LOCATION OF THE EXISTING STORM DRAIN AND SEWER SYSTEM TO BE REPLACED/EXTENDED IS IN A DIFFERENT HORIZONTAL AND VERTICAL LOCATION OF THE PROPOSED STORM DRAIN AND SEWER SYSTEM TO BE INSTALLED IN LOCATIONS AS SHOWN ON THE STORM DRAIN (SD) AND SEWER (SS) SHEETS.
- 27. UNLESS OTHERWISE NOTED ALL VALVE BOXES, KEYBOXES, CLEANOUTS, CATCH BASINS, AND MANHOLES WITHIN THE CONSTRUCTION DISTURBANCE LIMITS SHALL BE ADJUSTED RELATIVE TO FINISH GRADE PER MASS, THESE DRAWINGS OR THE SPECIAL PROVISIONS.
- 28. IN CASE OF CONFLICT BETWEEN STATIONING AND DIMENSIONED LOCATION OF PIPE OR FITTINGS, USE DIMENSIONED LOCATIONS.
- 29. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS. THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
- 30. WATER RESULTING FROM CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS OR CREEKS UNLESS PERMITS ARE OBTAINED BY THE CONTRACTOR, INCLUDING BUT NOT LIMITED TO, THOSE REQUIRED BY THE MOA STORM WATER PLAN REVIEW OFFICE. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM AN EXCAVATION ONTO ROADWAYS. CONTRACTOR SHALL PROVIDE A DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF NECESSARY PERMITS AND APPROVALS TO THE MOA RIGHT OF WAY PERMIT OFFICE.

CALL BEFORE YOU DIG!!!	
Alaska Digline, Inc. Statewide	811
Alaska Railroad. Military Fuel Lines	552-3760

DATA

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: \_\_ . DATA TRANSFERRED BY: TITLE:

RECORD DRAWING

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: \_ DATE:

GAAB100 See MOA Benchmark Book, Page D-15 296.5 AAB 15 ALT as shown in online MOA Benchmarks Map Gallery Application UANTITIES CONTRACTOR ASIS OF THIS DATUM GAAB 1972 ADJUST

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





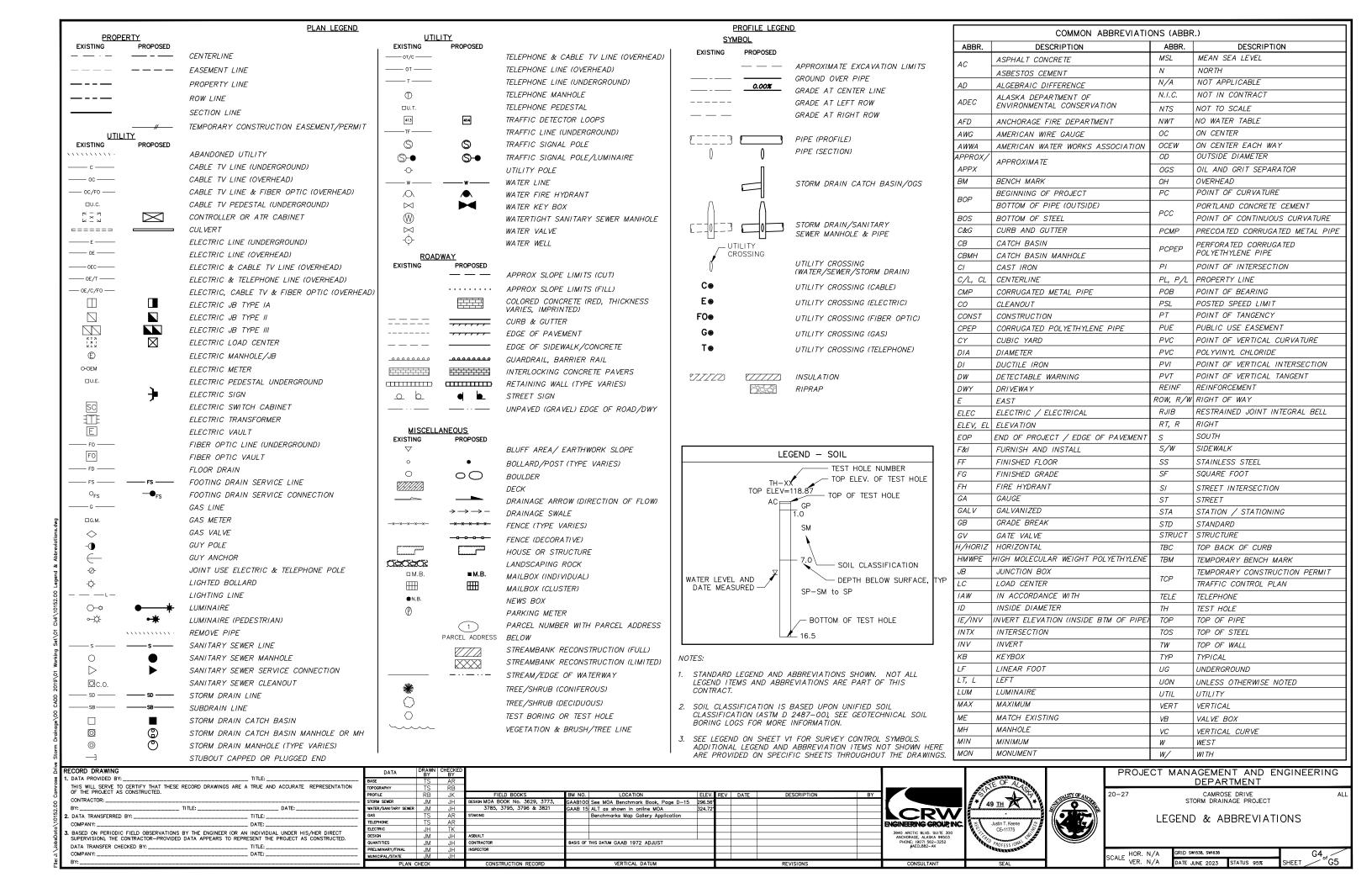
#### PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

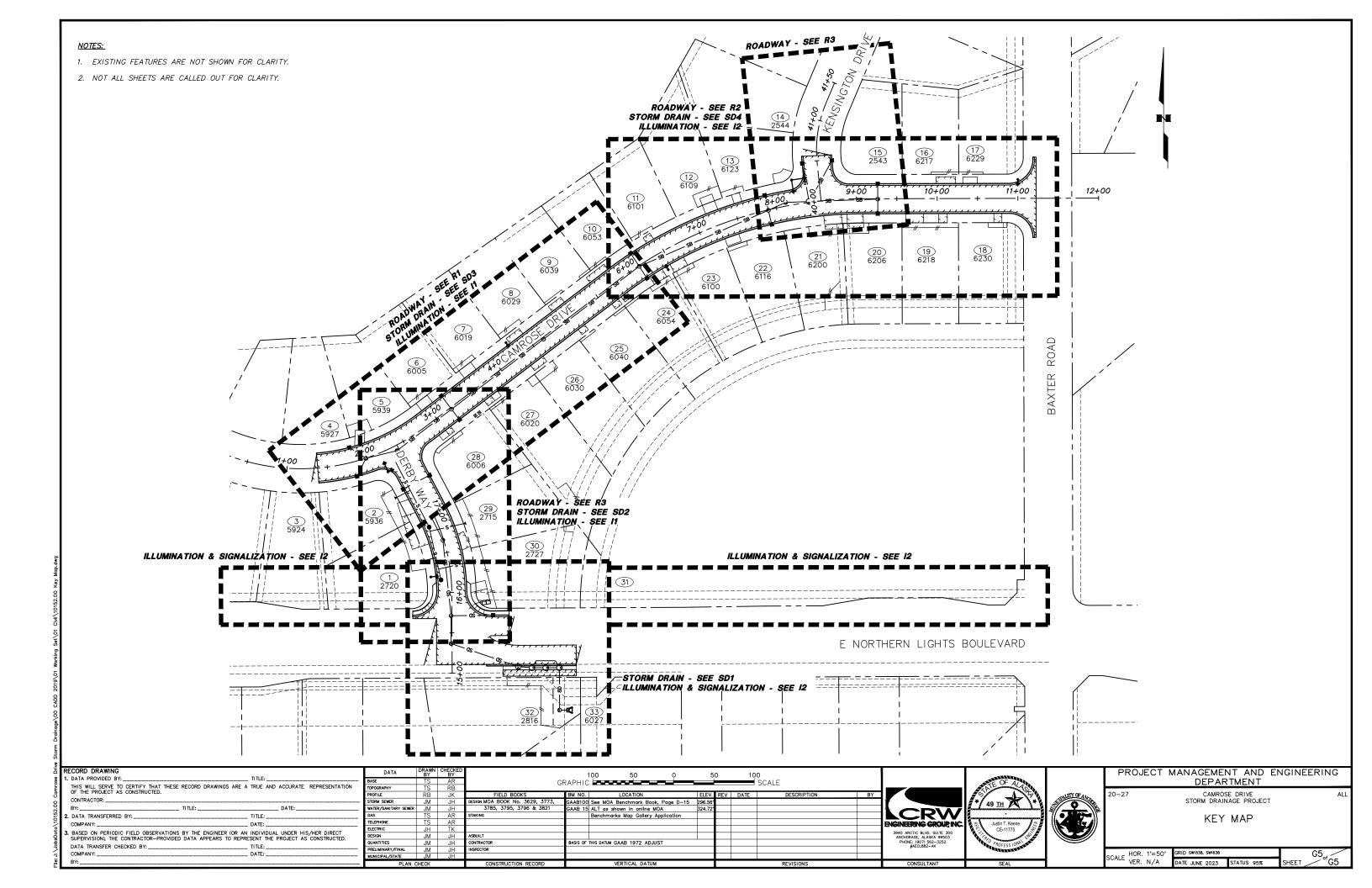
20-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

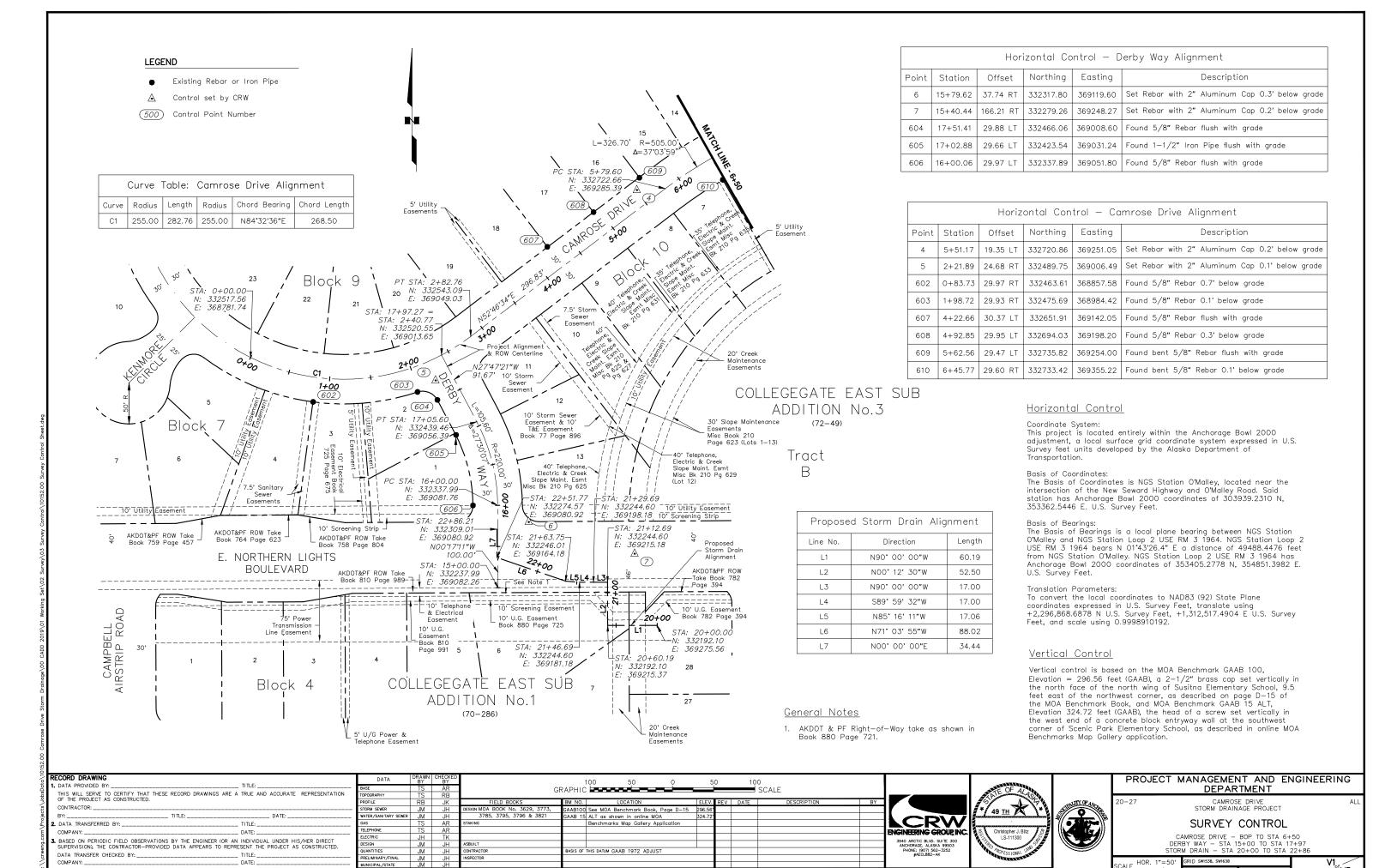
GENERAL NOTES

CALE HOR. N/A GRID SW1538, SW163

G3<sub>of</sub> G5 DATE JUNE 2023 STATUS 95%







Existing Aluminum Cap

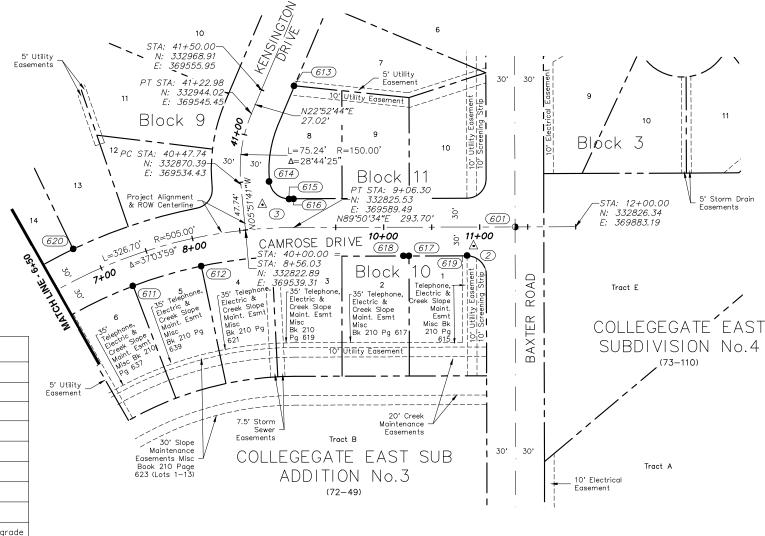
Existing Rebar or Iron Pipe

▲ Control set by CRW

500 Control Point Number

Horizontal Control — Kensington Drive Alignment							
Point	Station	Offset	Northing	Easting	Description		
613	N/A	N/A	332973.10	369589.75	Found bent 5/8" Rebar 0.2' below grade		
614	40+47.87	29.45 RT	332873.50	369563.72	Found 5/8" Rebar 0.3' below grade		

	Horizontal Control — Camrose Drive Alignment							
Point	Station	Offset	Northing	Easting	Description			
2	10+93.71	19.81 RT	332806.24	369776.96	Set Rebar with 2" Aluminum Cap 0.2' below grade			
3	8+75.33	24.90 LT	332849.34	369556.96	Set Rebar with 2" Aluminum Cap 0.2' below grade			
601	11+36.76	0.00 RT	332826.16	369819.95	Found 3—1/4" Aluminum Cap in Monument Case			
611	7+23.98	29.74 RT	332764.70	369421.78	Found 5/8" Rebar 0.1' below grade			
612	8+02.99	29.97 RT	332785.39	369493.10	Found 5/8" Rebar flush with grade			
615	9+01.64	29.74 LT	332855.24	369584.47	Found 5/8" Rebar 0.4' below grade			
616	9+06.10	29.79 LT	332855.33	369589.20	Found 5/8" Rebar 0.3' below grade			
617	10+26.17	29.88 RT	332795.98	369709.44	Found 5/8" Rebar with 1-1/4" Orange Plastic Cap 0.2' below grade			
618	10+20.34	29.80 RT	332796.05	369703.62	Found 5/8" Rebar 0.2' below grade			
619	10+86.66	29.64 RT	332796.39	369769.94	Found 1/2" Rebar 0.1' below grade			
620	6+82.19	30.17 LT	332803.23	369359.78	Found 5/8" Rebar 0.1' below grade			



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				PROFILE
CONTRACTOR:				STORM SEW
BY:	TITLE:	DATE:		WATER/SAN
2. DATA TRANSFERRED BY:		TITLE:		GAS
COMPANY:		DATE:		TELEPHONE
				ELECTRIC
<ol> <li>BASED ON PERIODIC FIELD OBSERVATION SUPERVISION. THE CONTRACTOR—PRO</li> </ol>				DESIGN
•				QUANTITIES
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BY:				

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E	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIF
SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56			
/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72			
	TS	AR	STAKING		Benchmarks Map Gallery Application				
HONE	TS	AR							
RIC	JH	TK							
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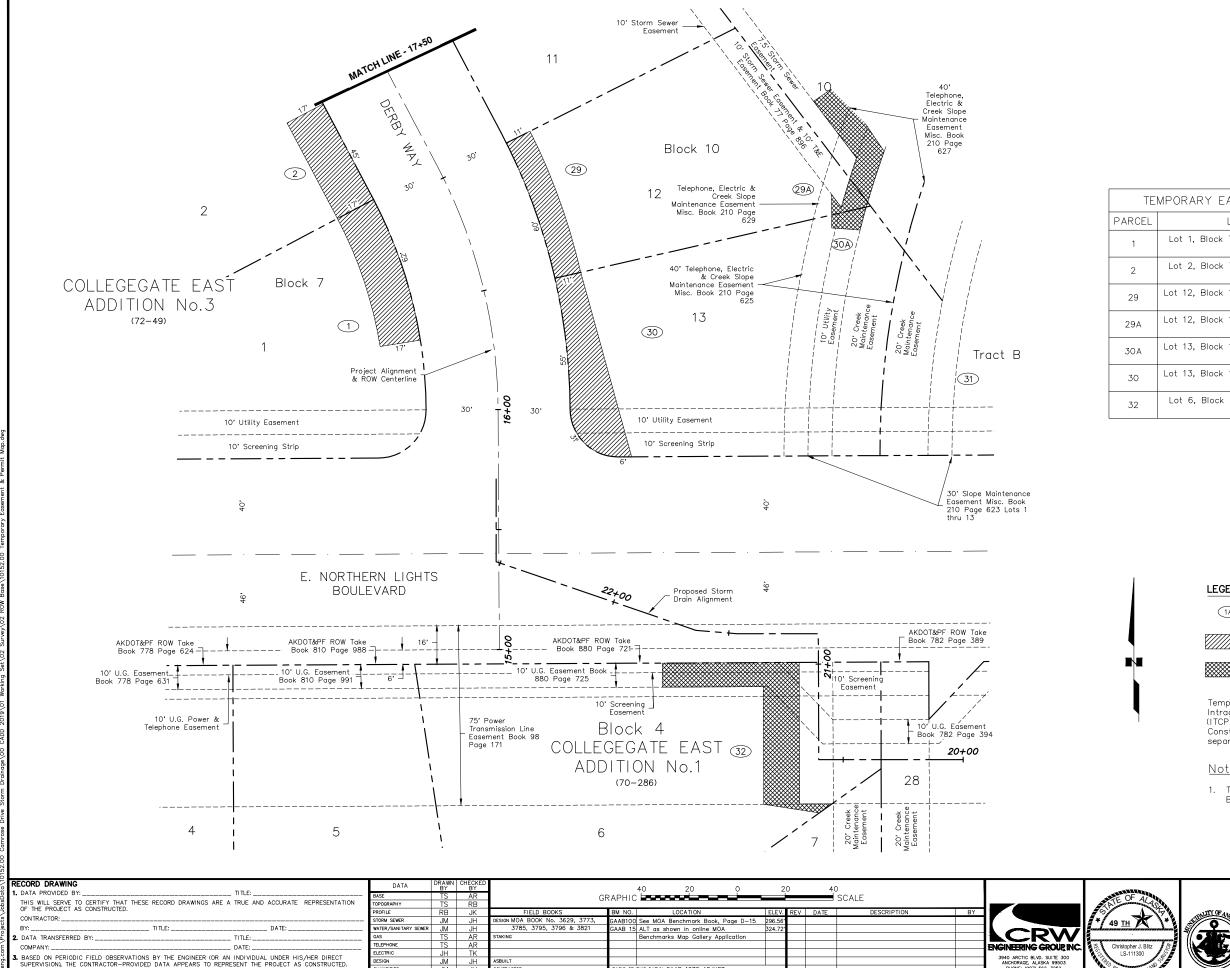


CAMROSE DRIVE STORM DRAINAGE PROJECT

SURVEY CONTROL

CAMROSE DRIVE - STA 6+50 TO STA 12+00 KENSINGTON DRIVE - STA 40+00 TO STA 41+50

SCALE HOR. 1"=50' VER. N/A



SIS OF THIS DATUM GAAR 1972 ADJUS

DATA TRANSFER CHECKED BY: \_\_

\_ DATE:

COMPANY: \_

TEMPORARY EASEMENT AND PERMIT TABLE LEGAL DESCRIPTION TYPE Lot 1, Block 7, Collegegate East Addition No. 3, Plat No. 72-49 TCP Lot 2, Block 7, Collegegate East Addition No. 3, Plat No. 72-49 TCP Lot 12, Block 10, Collegegate East Addition No. 3, Plat No. 72-49 TCP Lot 12, Block 10, Collegegate East Addition No. 3, Plot No. 72-49 TCE Lot 13, Block 10, Collegegate East Addition No. 3, Plat No. 72-49 TCE Lot 13, Block 10, Collegegate East Addition No. 3, Plat No. 72-49 TCP Lot 6, Block 4, Collegegate East Addition No. 1, Plat No. 70-286 TCE

#### LEGEND

1A

Parcel Number

Temporary Construction Permit (TCP)



Temporary Construction Easement (TCE)

Temporary Construction Permits (TCP) and Intragovernmental Temporary Construction Permits (ITCP) are dimensioned on this sheet. Temporary Construction Easements (TCE) are dimensioned on a separate parcel map exhibit.

#### <u>Notes</u>

Temporary Construction Permit for Lots 11 & 10, Block 10 shown on sheet V4.

#### PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

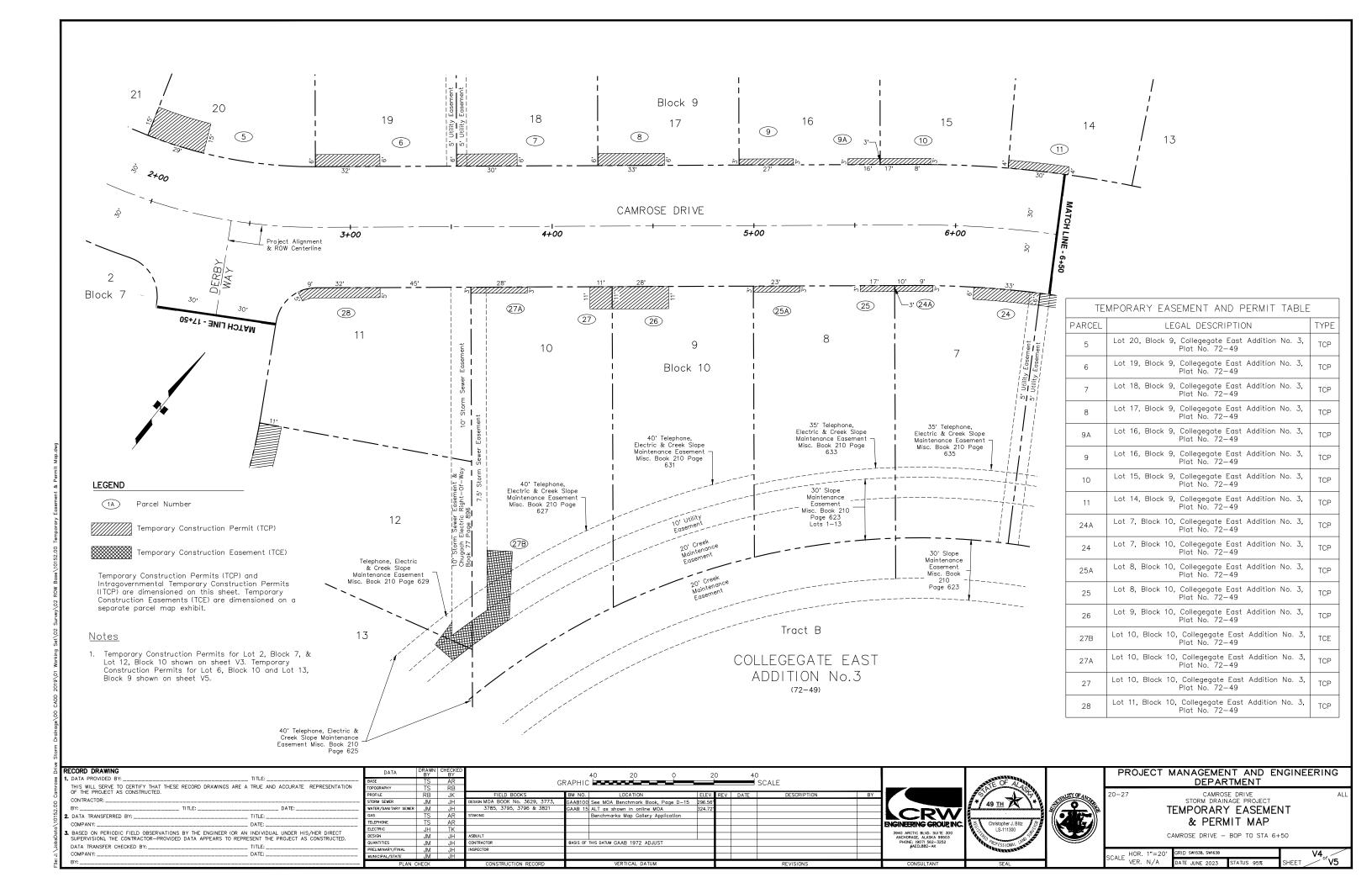
CAMROSE DRIVE STORM DRAINAGE PROJECT

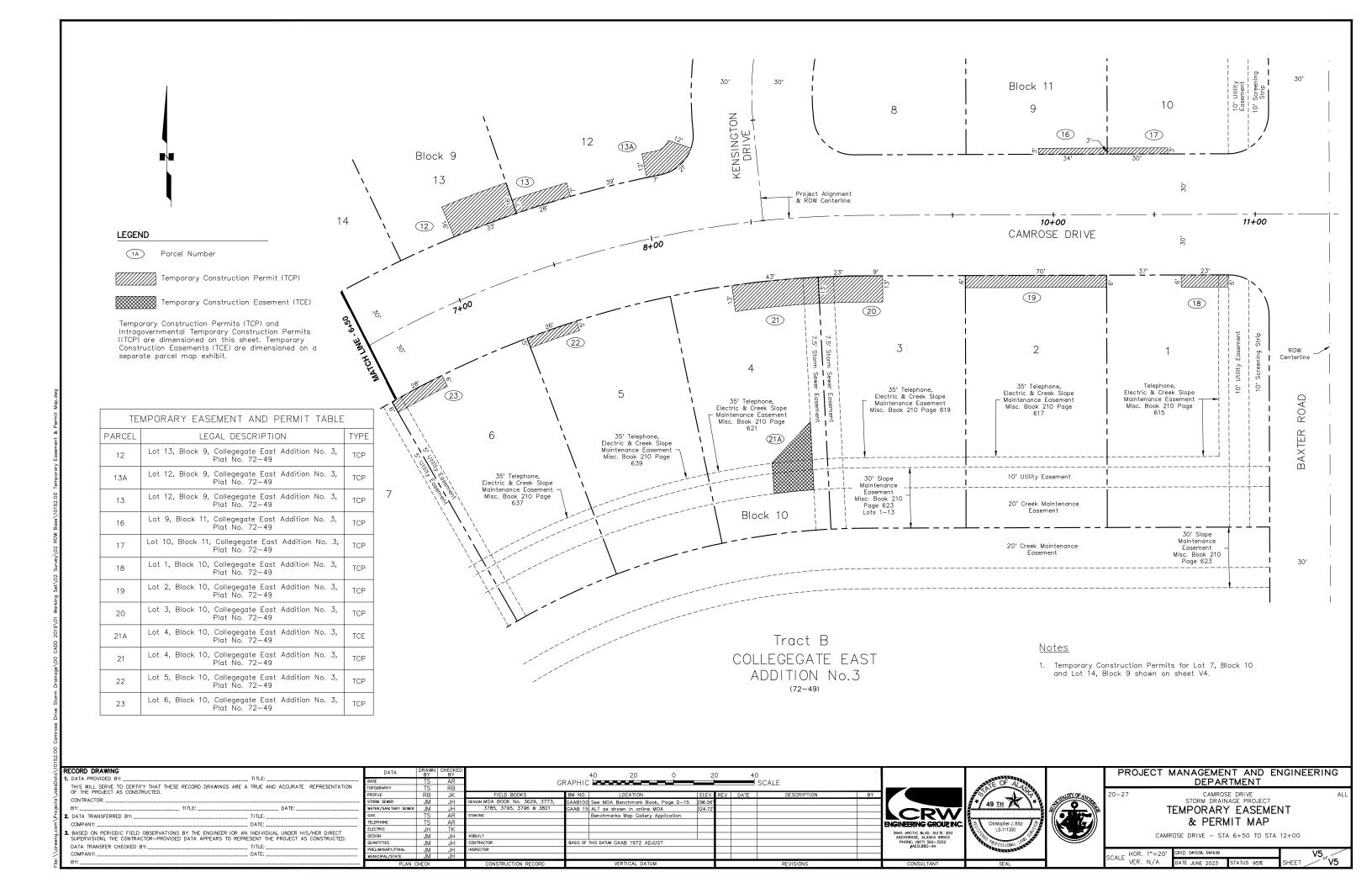
TEMPORARY EASEMENT & PERMIT MAP

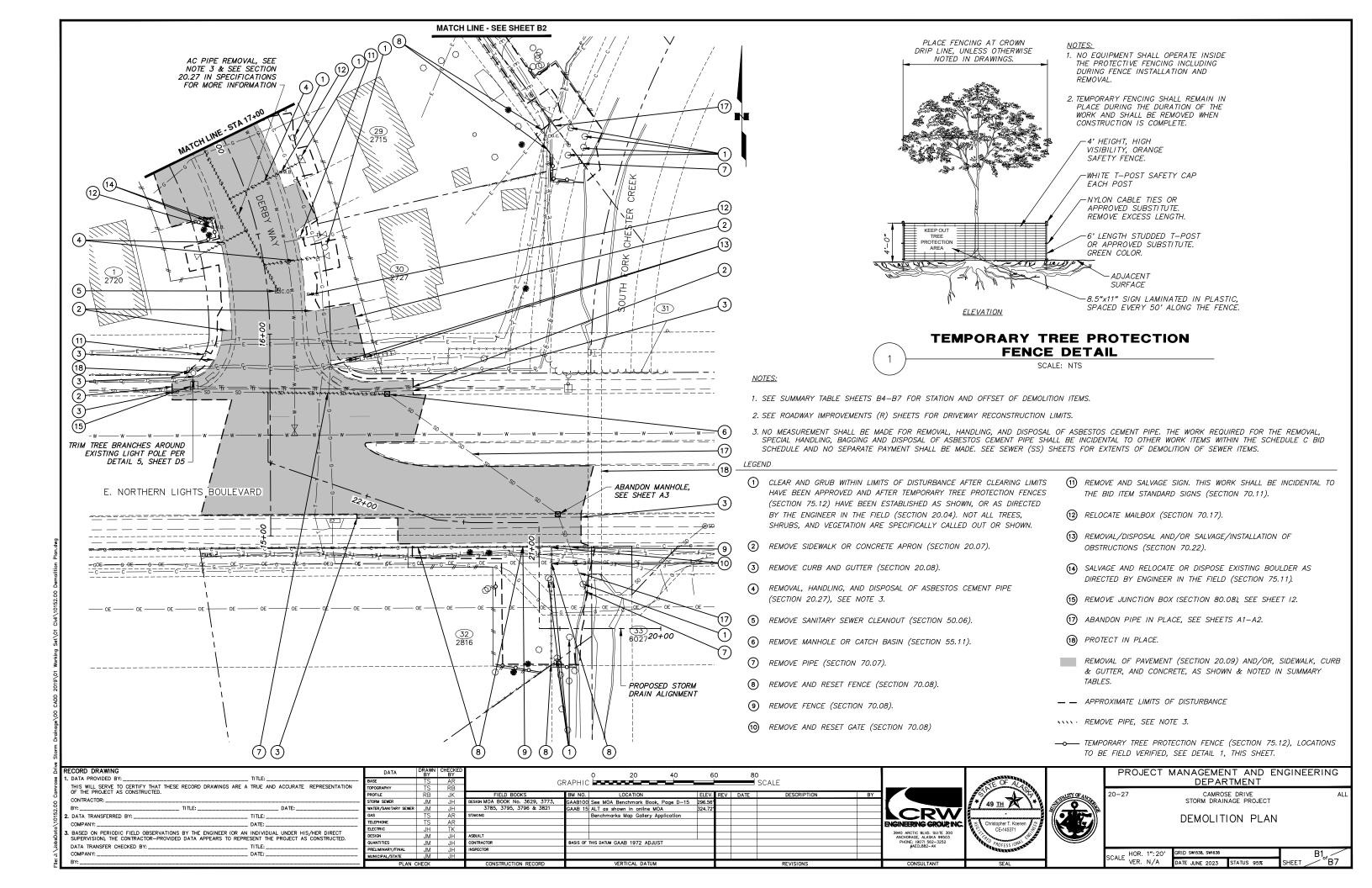
DERBY WAY - STA 15+00 TO STA 17+50 STORM DRAIN - STA 20+00 TO STA 22+86

SCALE HOR. 1"=20' VER. N/A

V3<sub>of</sub> <u>V5</u>







- APPROVED AND AFTER TEMPORARY TREE PROTECTION FENCES (SECTION 75.12) HAVE BEEN ESTABLISHED AS SHOWN, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04). NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.
- REMOVE SIDEWALK OR CONCRETE APRON (SECTION 20.07).
- REMOVE CURB AND GUTTER (SECTION 20.08).
- REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CEMENT PIPE (SECTION 20.27), SEE NOTE 3.
- REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).
- 7 REMOVE PIPE (SECTION 70.07).

DATA TRANSFER CHECKED BY: \_

- REMOVE AND RESET FENCE (SECTION 70.08).
- REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11).

- (13) REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (SECTION 70.22).
- (16) REMOVE LUMINAIRE POLE (BY OTHERS).
- 17 ABANDON PIPE IN PLACE, SEE SHEETS A1-A2...
- (18) PROTECT IN PLACE.
- REMOVAL OF PAVEMENT (SECTION 20.09) AND/OR, SIDEWALK, CURB & GUTTER, AND CONCRETE, AS SHOWN & NOTED IN SUMMARY TABLES.
- - APPROXIMATE LIMITS OF DISTURBANCE
- \*\*\* REMOVE PIPE, SEE NOTE 3.
- --- TEMPORARY TREE PROTECTION FENCE (SECTION 75.12), LOCATIONS TO BE FIELD VERIFIED, SEE DETAIL 1, SHEET B1.

- 2. SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.
- 3. NO MEASUREMENT SHALL BE MADE FOR REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CEMENT PIPE. THE WORK REQUIRED FOR THE REMOVAL, SPECIAL HANDLING, BAGGING AND DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE INCIDENTAL TO OTHER WORK ITEMS WITHIN THE SCHEDULE C BID SCHEDULE AND NO SEPARATE PAYMENT SHALL BE MADE. SEE SEWER (SS) SHEETS FOR EXTENTS OF DEMOLITION OF SEWER ITEMS.

RECORD DRAWING TITLE: THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. TITLE: DATE:

\_ 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.

GRAPHIC -SCALE GAAB100 See MOA Benchmark Book, Page D-15 GAAB 15 ALT as shown in online MOA SIS OF THIS DATUM GAAB 1972 ADJUS

CRW NGINEERING GROUP INC





**DEPARTMENT** 

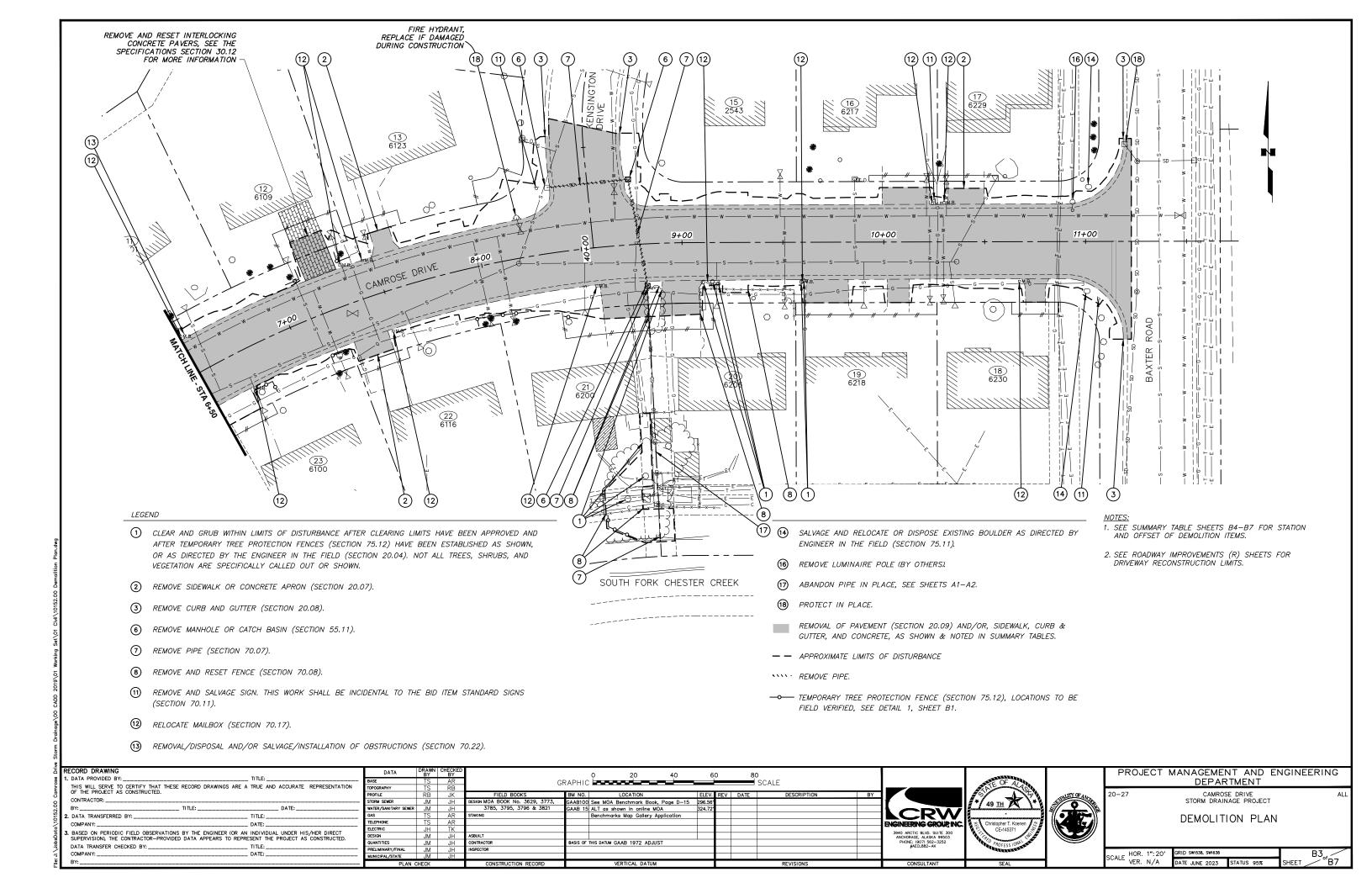
CAMROSE DRIVE STORM DRAINAGE PROJECT

PROJECT MANAGEMENT AND ENGINEERING

**DEMOLITION PLAN** 

SCALE HOR. 1":20' VER. N/A DATE JUNE 2023

B2<sub>of</sub> <u>F</u>



REMOVE SI	EMOVE SIDEWALK OR CONCRETE APRON ②							
SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	AREA (SY)	REMARKS		
B1	15+73.8	48.5 LT	16+02.1	21.3 LT	28			
B1	15+74.1	70.9 RT	16+10.5	20.7 RT	45			
B1	16+01.8	34.0 RT	16+11.3	32.5 RT	24			
B2	17+13.9	29.0 LT	17+32.1	27.2 LT	33			
B2	1+57.9	20.7 RT	1+60.6	20.8 RT	1			
B2	1+93.6	27.8 LT	2+06.5	25.0 LT	23			
B2	2+89.5	22.3 RT	3+00.0	21.3 RT	10			
B2	2+90.9	24.2 LT	3+08.5	24.3 LT	23			
B2	3+57.7	25.1 LT	3+75.7	25.2 LT	24			
B2	3+69.7	21.3 RT	3+81.9	21.4 RT	10			
B3	7+27.0	23.5 RT	7+45.4	23.5 RT	19			
В3	7+51.8	26.5 LT	7+61.2	26.2 LT	14			
В3	10+31.8	22.5 LT	10+49.7	22.6 LT	16			

20.06						
REMOVE CU	RB AND GUTTER					3
SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	LENGTH (FT)	REMARKS
B1	15+08.6	42.8 RT	15+08.5	153.8 RT	111	NORTHERN LIGHTS BLVD
B1	15+71.5	70.9 RT	17+00.0	18.4 RT	177	NORTHERN LIGHTS/DERBY WAY
B1	15+71.7	48.5 LT	17+00.0	18.8 LT	138	NORTHERN LIGHTS/DERBY WAY
B1	15+76.3	49.5 RT	15+86.0	29.3 RT	23	NORTHERN LIGHTS/DERBY WAY
B1	15+79.1	37.6 LT	15+87.4	28.2 LT	13	NORTHERN LIGHTS/DERBY WAY
B2	17+00.0	18.8 LT	1+38.0	18.4 RT	166	DERBY WAY/CAMROSE DRIVE
B2	17+00.0	18.4 RT	2+81.6	18.3 RT	100	DERBY WAY/CAMROSE DRIVE
B2	1+38.0	18.5 LT	2+81.4	18.5 LT	133	CAMROSE DRIVE
B2	2+83.6	18.4 LT	6+50.0	18.4 LT	369	CAMROSE DRIVE
B2	2+83.7	18.3 RT	6+50.0	18.8 RT	364	CAMROSE DRIVE
В3	6+50.0	18.4 LT	40+31.0	18.6 LT	202	CAMROSE DR/KENSINGTON DR
В3	6+50.0	18.8 RT	8+80.0	18.5 RT	222	CAMROSE DRIVE
В3	40+33.2	18.6 LT	40+56.3	18.5 LT	24	KENSINGTON DRIVE
В3	40+33.0	18.2 RT	40+52.2	18.3 RT	19	KENSINGTON DRIVE
В3	40+30.8	18.3 RT	11+18.8	51.0 LT	274	KENSINGTON DR/CAMROSE DR
В3	8+82.9	18.5 RT	11+18.6	48.5 RT	252	CAMROSE DRIVE

20.09

REMOVE PAVEMENT							
SHEET	STATION TO STATION	OFFSET	AREA (SY)	REMARKS			
B1	21+03 TO 17+00	LT & RT	1,586	NORTHERN LIGHTS BLVD, DERBY WAY, SIDEWALK, DRIVEWAYS			
B2	17+00 TO 6+50	LT & RT	2,388	DERBY WAY, CAMROSE DRIVE, DRIVEWAYS			
В3	6+50 TO 11+23	LT & RT	2,151	CAMROSE DRIVE, KENSINGTON DRIVE, BAXTER ROAD, DRIVEWAYS			

NOTES: 1. SEE ROADWAY IMPROVEMENT SHEETS FOR ROADWAY PAVEMENT REMOVAL LIMITS.

2. SEE DRIVEWAY RECONSTRUCTION TABLE FOR DRIVEWAY PAVEMENT REMOVAL LIMITS.

RECORD DRAWING						
1. DATA PROVIDED BY:			TITLE:			BASE
	CERTIFY THAT THESE	RECORD DRAWINGS	ARE A TRUE AN	ID ACCURATE	REPRESENTATION	TOPOGE
OF THE PROJECT AS						PROFIL
						STORM
						WATER
2. DATA TRANSFERRED	BY:		TITLE:			GAS
COMPANY:			DATE:			TELEPH
3. BASED ON PERIODIC	FIELD ORSERVATIONS	BY THE ENGINEER	(OR AN INDIVIDI	IAI LINDER HI	HEP DIPECT	ELECT
	CONTRACTOR-PROVIDED					DESIGN
·	CKED BY:					QUANT
						PRELIM
			DATE:			MUNIC
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DATA	DRAWN BY	CHECKED BY			
SE	TS	AR	i		1
POGRAPHY	TS	RB			
OFILE	RB	JK	FIELD BOOKS	BM NO.   LOCATION   ELEV. REV   DATE   DESCRIPTION   BY	]
ORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100 See MOA Benchmark Book, Page D-15 296.56'	Ιŧ
TER/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15 ALT as shown in online MOA 324.72'	14
NS .	TS	AR	STAKING	Benchmarks Map Gallery Application	16
LEPHONE	TS	AR			EN
ECTRIC	JH	TK			1"
SIGN	JM	JH	ASBUILT		1
JANTITIES	JM	JH	CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST	1
RELIMINARY/FINAL	JM	JH	INSPECTOR		1
JNICIPAL/STATE	JM	JH			L
BI WN CHECK			CONSTRUCTION RECORD	VERTICAL DATUM REVISIONS	т

ENGINEERING GROUP INC.

3940 ARCITIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 567-2022
PACCL852-AX





PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

20-27 CAMROSE DRIV

CAMROSE DRIVE STORM DRAINAGE PROJECT

DEMOLITION SUMMARY TABLES

. HOR. N/A	GRID SW1538, SW1638	B4., /		
VER. N/A	DATE JUNE 2023	STATUS 95%	SHEET	°¹B7

REMOVAL,	HANDLING, AN	D DISPOSAL O	F ASBESTOS (	EMENT PIPE (I	NCIDENTAL	WORK ITEM	, SEE NOTE 1) 4	
SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	SIZE (INCH)	LENGTH (FT)	REMARKS	
B1	16+34.0	30.0 RT	16+34.5	0.2 RT	4	30	AC SEWER SERVICE	
B1	16+46.2	30.0 LT	16+53.2	5.2 LT	4	26	AC SEWER SERVICE	
B1	16+71.0	8.6 LT	16+76.3	30.0 RT	4	39	AC SEWER SERVICE	
B1/B2	16+21.1	5.2 RT	17+80.9	11.1 LT	8	160	AC SEWER	
B2	17+39.9	11.1 LT	17+39.9	30.0 LT	4	19	AC SEWER SERVICE	

NOTE: 1. NO MEASUREMENT SHALL BE MADE FOR REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CEMENT PIPE. THE WORK REQUIRED FOR THE REMOVAL, HANDLING, AND DISPOSAL OF ASBESTOS CEMENT PIPE SHALL BE INCIDENTAL TO OTHER WORK ITEMS WITHIN THE SCHEDULE C BID SCHEDULE AND NO SEPARATE PAYMENT SHALL BE MADE.

EMOVE MA	ANHOLE OR	CATCH BASIN				6
SHEET	APPX STATION	APPX OFFSET (FT)	CATCH BASIN	MANHOLE	REMARKS	
B1	15+70.1	58.1 RT		Х	NORTHERN LIGHTS BLVD	
B2	2+18.70	19.3 RT	X		CAMROSE DRIVE	
B2	2+82.63	19.6 LT	X		CAMROSE DRIVE	
B2	2+82.75	20.6 RT		X	CAMROSE DRIVE	
B2	2+84.59	3.2 LT		Х	CAMROSE DRIVE	
B2	3+59.54	2.9 LT		Х	CAMROSE DRIVE	
В3	40+32.1	19.8 LT	X		KENSINGTON DRIVE	
В3	40+32.0	20.5 RT		Х	KENSINGTON DRIVE	
В3	8+81.85	20.8 RT		X	CAMROSE DRIVE	

50.06

REMOVE EXISITING SANITARY SEWER MANHOLE OR CLEANOUT									
SHEET	APPX STATION	APPX OFFSET (FT)	NORTHING	EASTING	MANHOLE	CLEANOUT	REMARKS		
B1	16+21.1	5.2 RT	332359.58	369085.78		X			

70.07

REMOVE	PIPE						7
SHEET	APPX STA BEGIN	APPX OFFSET (FT)	APPX STA END	SIZE (INCH)	LENGTH (FT)	REMARKS	
B1	20+36.7	17.2 RT	20+82.9	21.6 RT	18	6	STORM DRAIN
B1	15+70.1	58.1 RT	15+71.1	3.3 LT	18	61	STORM DRAIN
B1	16+46.4	166.3 RT	16+50.0	163.4 RT	18	7	
B2	2+18.7	19.3 RT	2+82.8	20.6 RT	10	69	STORM DRAIN
B2	2+82.6	19.6 LT	2+84.6	3.2 LT	12	17	STORM DRAIN
B2	2+82.8	20.6 RT	2+84.6	3.2 LT	10	24	STORM DRAIN
B2	2+84.6	3.2 LT	3+59.5	2.9 LT	18	75	STORM DRAIN
B2	3+59.54	2.9 LT	3+59.5	20.0 RT	18	23	STORM DRAIN
B3	40+32.1	19.8 LT	40+32.0	20.5 RT	12	40	STORM DRAIN
В3	40+32.0	20.5 RT	8+81.9	20.8 RT	18	54	STORM DRAIN
В3	8+81.9	20.8 RT	8+81.9	22.3 RT	18	2	STORM DRAIN
В3	8+81.5	143.3 RT	8+81.5	147.3 RT	18	4	STORM DRAIN

70.08

REMOVE AND RESET FENCE											
		EXISTING LOCATION					PROPOSED LOCATION				
SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
B1	20+54.4	17.9 LT	20+92.3	6.2 RT	50	20+54.4	17.9 LT	20+92.9	8.0 LT	62	
B1	21+00.7	8.0 LT	21+67.9	15.7 LT	52	21+00.7	8.0 LT	21+67.9	15.7 LT	52	
B1	16+54.7	149.3 RT	16+60.7	149.2 RT	11	16+54.7	149.3 RT	16+60.7	149.2 RT	11	
B2	17+36.9	26.4 LT	17+46.9	25.5 LT	10	17+36.9	26.4 LT	17+46.9	25.5 LT	10	
B3	8+46.2	131.7 RT	8+71.7	130.9 RT	18	8+46.2	131.7 RT	8+71.7	130.9 RT	18	
В3	8+71.7	130.9 RT	8+92.0	130.9 RT	15	8+71.7	130.9 RT	8+92.0	130.9 RT	15	
В3	8+81.6	36.1 RT	8+87.7	21.5 RT	19	8+81.6	36.1 RT	8+87.3	22.9 RT	19	
В3	9+09.1	35.5 RT	9+32.7	23.4 RT	37	9+09.1	35.5 RT	9+32.7	23.4 RT	37	

#### NOTES:

- 1. PROVIDE TEMPORARY FENCING PER SECTION 70.23 FOR ALL FENCES REMOVED OR AS DIRECTED BY THE ENGINEER.
  2. STAKE RESET FENCE LAYOUT IN THE FIELD FOR ENGINEER TO REVIEW AND APPROVE PRIOR TO INSTALLATION. THIS WORK SHALL BE INCIDENTAL TO SECTION 70.08 PAY ITEM.

	CORD DRAWING		
1.	DATA PROVIDED BY:	TITLE:	BASE
	THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWING	S ARE A TRUE AND ACCURATE REPRESE	101 COLUM
	OF THE PROJECT AS CONSTRUCTED.		PROFILE
	CONTRACTOR:		STORM S
	BY: TITLE:	DATE:	
2.	DATA TRANSFERRED BY:	TITLE:	GAS
	COMPANY:	DATE	TELEPHO
			FLECTRIC
	BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER SUPERVISION). THE CONTRACTOR—PROVIDED DATA APPEARS		ICTED DESIGN
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	COMPANY:		

DATA	DRAWN BY	CHECKED									
BASE	TS	AR									ı
TOPOGRAPHY	TS	RB									] =
PROFILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	
STORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56					I₹
WATER/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72					J₩
GAS	TS	AR	STAKING		Benchmarks Map Gallery Application						
TELEPHONE	TS	AR									EN
ELECTRIC	Ŧ	TK									]-
DESIGN	JM	JH	ASBUILT								
QUANTITIES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST						ı
PRELIMINARY/FINAL	JM	JH	INSPECTOR								1
MUNICIPAL/STATE	JM	JH									
PLAN CHECK			CONSTRUCTION RECORD		VERTICAL DATUM				REVISIONS		







PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

CAMROSE DRIVE STORM DRAINAGE PROJECT

DEMOLITION SUMMARY TABLES

1100	· / · CDID cwr	E30 CW1630	

SCALE HOR. N/A VER. N/A DATE JUNE 2023 STATUS 95% SHEET

REMOVE &	REMOVE & RESET GATE										10
	EXISTING LOCATION PROPOSED LOCATION										
SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
B1	20+92.3	6.2 RT	21+00.3	6.3 RT	8	20+92.9	8.0 LT	21+00.7	8.0 LT	8	

70.11 11) REMOVE AND SALVAGE SIGN SHEET APPROX APPROX LEGEND SIGN POST REMARKS SIGN TYPE STATION OFFSET (FT) NO. D3-101 DERBY WAY 2700 E NORTHERN LIGHTS BLVD 6000 PERFORATED STEEL TUBE 15+89.9 32.4 LT D3-101 B1 STOP R1-1 MAXIMUM SPEED 20 16+44.5 20.0 RT PERFORATED STEEL TUBE R2-4M-20 DERBY WAY 2700 D3-101 CAMROSE DR 6000 B2 17+66.8 20.7 RT D3-101 PERFORATED STEEL TUBE R1-1 STOP D3-101 KENSINGTON DR 2500 40+32.2 25.1 LT STEEL TUBE CAMROSE DR 6100 D3-101 10+25.0 20.5 LT R2-4M-20 MAXIMUM SPEED 20 PERFORATED STEEL TUBE ВЗ D3-101 CAMROSE DR 6200 BAXTER RD 2600 11+06.4 28.5 RT D3-101 PERFORATED STEEL TUBE R1-1 STOP

70.22

REMOVAL/D	ISPOSAL AND/OR SA	LVAGE/INSTALLATION	OF OBSTRUCTIONS			(3)
SHEET	APPX STATION	APPX OFFSET (FT)	OBSTRUCTION ITEM	QUANTITY	ACTION	REMARKS
B1	15+86.7	37.4 RT	RETAINING WALL	10 LF	REMOVE AND REINSTALL	
B2	17+64.0	25.3 RT	LANDSCAPING EDGING	14 LF	PLACE ON PROPERTY	
B2	4+56.8	20.3 RT	LANDSCAPING EDGING	12 LF	PLACE ON PROPERTY	
B2/B3	6+50	24.8 LT	LANDSCAPING EDGING	11 LF	PLACE ON PROPERTY	

ECORD DRAWING		
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THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS AR	RE A TRUE AND ACCURATE REPRESENTATION	TOP
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BY: TITLE:	DATE:	WAT
DATA TRANSFERRED BY	TITLE.	GAS
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BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO RE		DES
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COMPANY:	DATE:	MUN
BY.		

DATA	DRAWN BY	CHECKED									
BASE	TS	AR									ı
TOPOGRAPHY	TS	RB									
PROFILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	
STORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56					I₩
WATER/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72					J#
GAS	TS	AR	STAKING		Benchmarks Map Gallery Application						
TELEPHONE	TS	AR									ENK
ELECTRIC	J	TK									]""
DESIGN	JM	JH	ASBUILT								] '
QUANTITIES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST						1
PRELIMINARY/FINAL	JM	JH	INSPECTOR								1
MUNICIPAL/STATE	JM	JH									
PLAN (	CHECK		CONSTRUCTION RECORD		VERTICAL DATUM				REVISIONS		







PROJECT MANAGEMENT AND ENGINEERING
DEPARTMENT

CAMROSE DRIVE STORM DRAINAGE PROJECT

DEMOLITION SUMMARY TABLES

SCALE HOR. N/A GRID SW1538, SW1638

DATE JUNE 2023 STATUS 95% SHEET B6

Of B7

12 RELOCATE MAILBOX EXISTING LOCATION NEW LOCATION APPX APPX APPX APPX SHEET REMARKS OFFSET (FT) STATION STATION OFFSET (FT) B1 16+18.1 20.0 RT 16+17.5 20.5 RT 16+59.3 20.7 LT 16+61.0 B1 20.5 LT 20.5 RT B1 16+75.1 19.7 RT 16+72.0 В2 1+53.3 18.2 RT 1+53.0 20.5 RT 1+86.0 20.4 LT 2+09.0 20.5 LT В2 2+85.9 19.5 RT 2+85.0 20.5 RT B2 B2 2+86.3 19.3 LT 2+86.0 20.5 RT 20.5 LT 3+81.0 B2 3+81.3 20.5 LT B2 3+86.4 19.7 RT 3+86.0 20.5 RT B2 4+54.0 19.4 LT 4+54.0 20.5 LT 4+56.9 19.1 RT 4+57.0 20.5 RT B2 19.9 LT 5+19.9 5+18.5 20.5 LT B2 19.6 RT 5+21.5 20.5 RT B2 5+21.2 B2 5+84.2 19.7 LT 5+85.5 20.5 LT 20.5 RT B2 6+41.6 19.6 RT 6+42.0 В3 6+50.3 20.2 LT 6+51.5 20.5 LT 6+70.8 19.6 RT 6+73.5 20.5 RT B3 ВЗ 7+33.6 19.7 LT 7+36.0 20.5 LT В3 7+44.5 18.3 LT 7+47.0 20.5 LT В3 7+48.0 19.8 RT 7+51.0 20.5 RT 8+55.8 19.1 RT 8+52.0 20.5 RT ВЗ ВЗ 9+12.7 19.8 RT 9+13.0 20.5 RT ВЗ 9+59.6 19.6 RT 9+56.0 20.5 RT 19.0 LT 9+94.0 В3 10+24.1 20.5 LT 10+30.0 19.4 LT 10+30.0 20.5 LT B3

20.5 RT

75.11								
SALVAGE AND RELOCATE OR DISPOSE EXISTING BOULDER								
SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS					
B1	16+62.9	20.0 LT						
B1	16+63.9	22.0 LT						
В3	11+00.6	24.6 RT						

27.1 LT

80.08							
REMOVE JUNCTION BOX							
SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS				
B1	15+75	37.6 LT					

10+67.2 NOTE: SEE SHEET D4 FOR MAILBOX INSTALLATION DETAILS.

75.12

В3

1 / 5=						
TEMPORAR'	Y TREE PROTE	ECTION FENCE				
SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
B1	20+41.9	19.1 LT	20+53.7	19.1 LT	11.9	
B1	20+59.5	21.6 LT	21+34.2	70.2 LT	22.6	
B1	20+76.3	21.6 LT	20+83.3	21.6 LT	7.0	
B1	16+44.2	158.6 RT	16+52.9	151.3 RT	22.3	
B1	16+53.7	30.6 LT	16+64.5	30.3 LT	29.4	
B1	16+77.4	162.3 RT	16+80.1	152.3 RT	15.2	
B2	2+09.9	26.9 LT	2+11.6	33.7 LT	7.0	
B2	17+58.7	27.7 RT	2+73.7	27.0 RT	21.0	
B2	4+88.5	25.7 RT	5+03.3	26.1 RT	23.7	

10+65.0

19.7 RT

75.12 TEMPORARY TREE PROTECTION FENCE (CONTINUED)

TEMPORARY TREE PROTECTION FENCE (CONTINUED)									
SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS			
B2/B3	6+47.2	28.4 LT	6+53.8	28.4 LT	7.0				
В3	6+70.6	26.1 RT	6+80.5	26.1 RT	20.5				
В3	7+06.0	20.3 LT	7+12.9	25.6 LT	12.5				
В3	7+13.6	24.8 RT	7+24.3	25.5 RT	18.4				
В3	7+32.9	26.8 LT	7+39.5	21.9 LT	11.9				
В3	7+91.7	29.0 RT	8+18.8	26.8 RT	29.7				
В3	8+36.7	31.8 RT	8+43.8	33.9 RT	7.0				
В3	8+47.3	132.3 RT	8+65.2	145.4 RT	20.9				

	CORD DRAWING								
1.	DATA PROVIDED BY:					TITLE: _			
		CERTIFY THAT THESI	RECORD [	DRAWINGS A	ARE A	TRUE A	AND ACCURATE	REPRESENTATION	TOPO
	OF THE PROJECT AS								PROF
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2.	DATA TRANSFERRED	BY:				TITLE: _			GAS
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TOPOGRAPHY	TS	RB									
PROFILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	
STORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56					I₩.
WATER/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72					ı
GAS	TS	AR	STAKING		Benchmarks Map Gallery Application						
TELEPHONE	TS	AR									EN
ELECTRIC	JH	TK									
DESIGN	JM	JH	ASBUILT								1
QUANTITIES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST						1
PRELIMINARY/FINAL	JM	JH	INSPECTOR								1
MUNICIPAL/STATE	JM	JH									
PLAN (	HECK		CONSTRUCTION RECORD		VERTICAL DATUM				REVISIONS		

В3

11+01.5

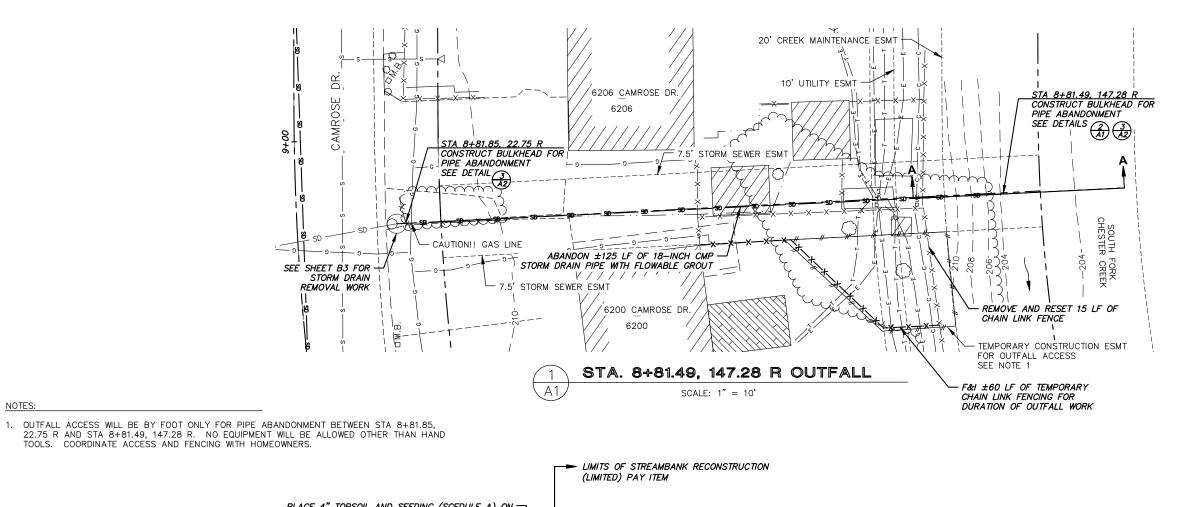


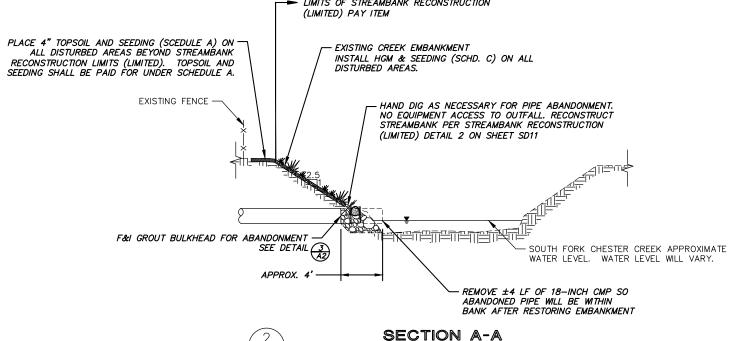
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

CAMROSE DRIVE STORM DRAINAGE PROJECT

DEMOLITION SUMMARY TABLES

HOR. N/A	GRID SW1538, SW1638			B7	
VER. N/A	DATE JUNE 2023	STATUS 95%	SHEET	<u> </u>	"B7





95% DESIGN

RE	CORD DRAWING				
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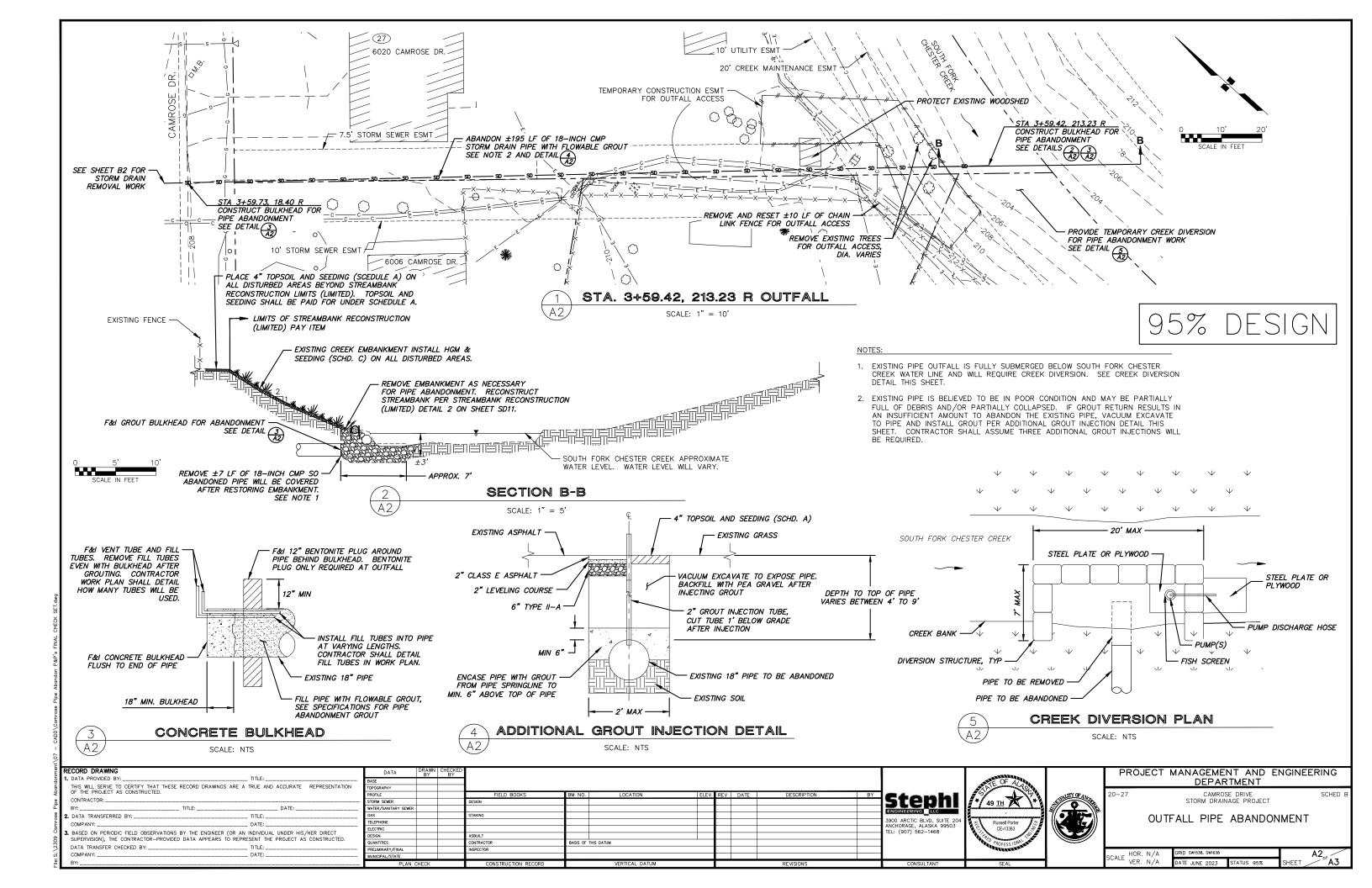
DATA	DRAWN BY	CHECKED									
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POGRAPHY											i
OFILE			FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	Charalel
ORM SEWER			DESIGN								stebni
TER/SANITARY SEWER											ENGINEERING LLC
s			STAKING								And a contract of the contract
LEPHONE											3900 ARCTIC BLVD, SUITE 20 ANCHORAGE, ALASKA 99503
ECTRIC											TEL: (907) 562-1468
SIGN			ASBUILT								TEE: (307) 302-1400
ANTITIES			CONTRACTOR	BASIS OF	THIS DATUM						1
ELIMINARY/FINAL			INSPECTOR								1

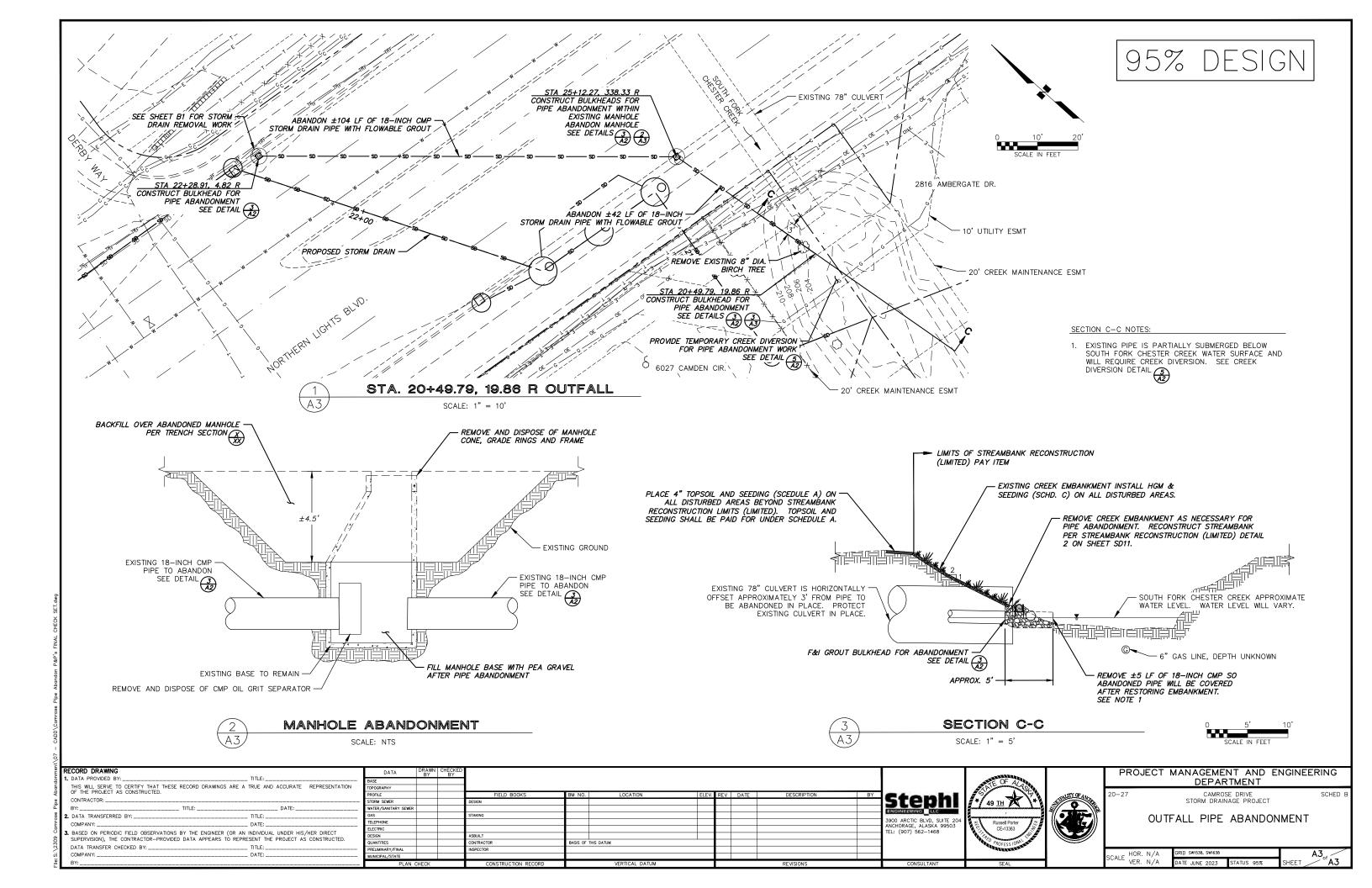
SCALE: 1" = 5'

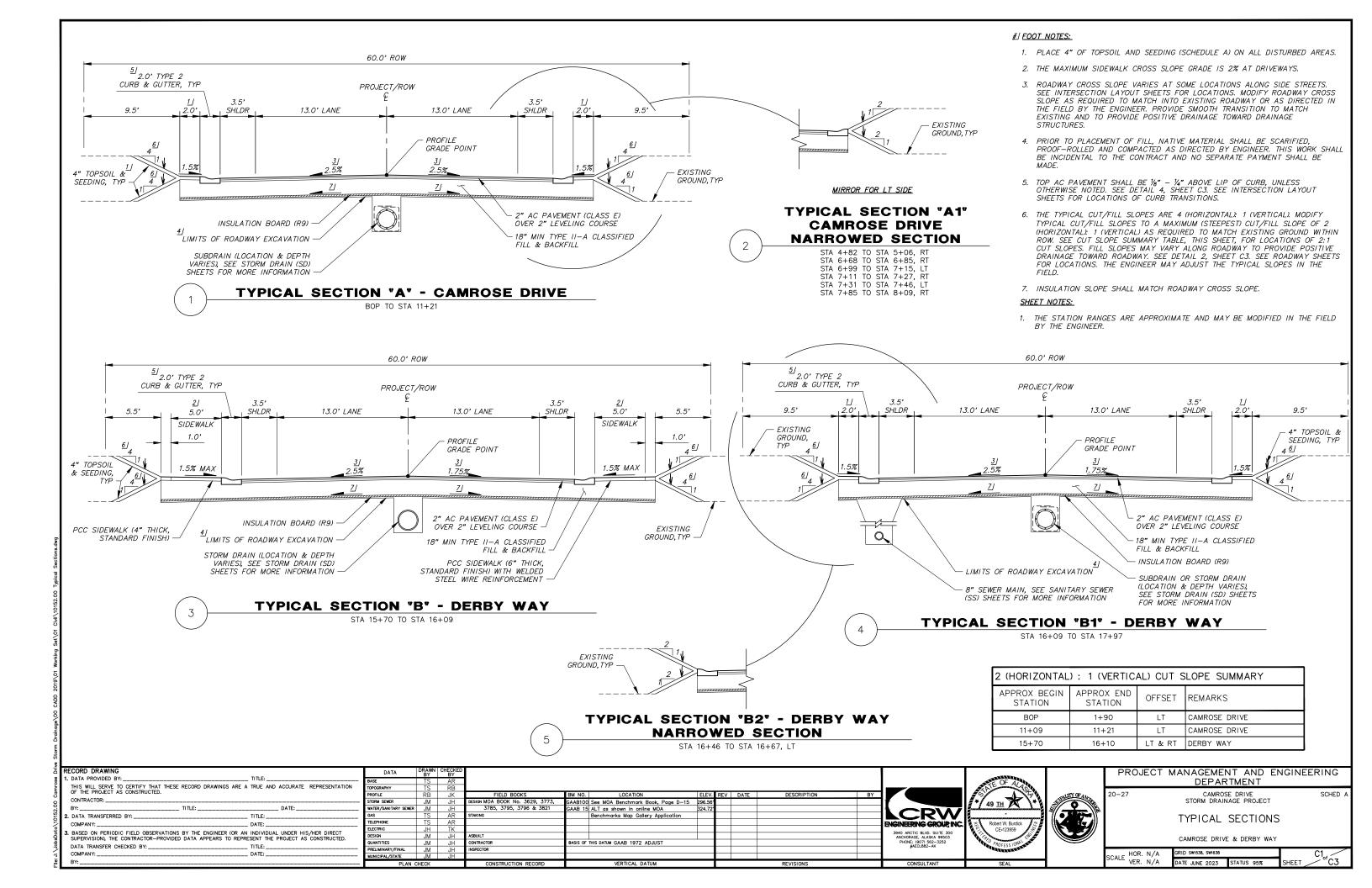
PROJECT MANAGEMENT AND ENGINEERING
DEPARTMENT

OUTFALL PIPE ABANDONMENT

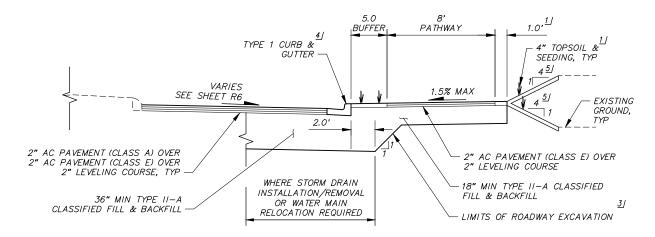
	HOR.	N/A	GRID SW1538, SW1638		A1. ~
LE	VER.	N/A	DATE JUNE 2023	STATUS 95%	SHEET OT A 3











#### TYPICAL SECTION "D" - E. NORTHERN LIGHTS BOULEVARD

STA 15+00 TO STA 15+70

#### # FOOT NOTES:

- 1. PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS.
- 2. ROADWAY CROSS SLOPE VARIES AT SOME LOCATIONS ALONG SIDE STREETS. SEE INTERSECTION LAYOUT SHEETS FOR LOCATIONS. MODIFY ROADWAY CROSS SLOPE AS REQUIRED TO MATCH INTO EXISTING ROADWAY OR AS DIRECTED IN THE FIELD BY THE ENGINEER. PROVIDE SMOOTH TRANSITION TO MATCH EXISTING AND TO PROVIDE POSITIVE DRAINAGE TOWARD DRAINAGE
- 3. PRIOR TO PLACEMENT OF FILL, NATIVE MATERIAL SHALL BE SCARIFIED, PROOF-ROLLED AND COMPACTED AS DIRECTED BY ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
- 4. TOP AC PAVEMENT SHALL BE 1/8" 1/4" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 4, SHEET C3. SEE INTERSECTION LAYOUT SHEETS FOR LOCATIONS OF CURB TRANSITIONS.
- 5. THE TYPICAL CUT/FILL SLOPES ARE 4 (HORIZONTAL): 1 (VERTICAL). MODIFY TYPICAL CUT/FILL SLOPES TO A MAXIMUM (STEEPEST) CUT/FILL SLOPE OF 2 (HORIZONTAL): 1 (VERTICAL) AS REQUIRED TO MATCH EXISTING GROUND WITHIN ROW. SEE CUT SLOPE SUMMARY TABLE, SHEET C1, FOR LOCATIONS OF 2:1 CUT SLOPES. FILL SLOPES MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. SEE DETAIL 2, SHEET C3. SEE ROADWAY SHEETS FOR LOCATIONS. THE ENGINEER MAY ADJUST THE TYPICAL SLOPES IN THE FIELD.
- 6. INSULATION SLOPE SHALL MATCH ROADWAY CROSS SLOPE.

#### SHEET NOTES:

1. THE STATION RANGES ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.

RECORD DRAWING

TITLE: THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.

CONTRACTOR: \_\_ 2. DATA TRANSFERRED BY: TITLE: DATE:

COMPANY: 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: \_\_ \_ DATE:

DATA UANTITIES

CONTRACTOR

GAAB100 See MOA Benchmark Book, Page D-15 296.5 AAB 15 ALT as shown in online MOA Benchmarks Map Gallery Application ASIS OF THIS DATUM GAAB 1972 ADJUST

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





PROJECT MANAGEMENT AND ENGINEERING **DEPARTMENT** SCHED

20-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

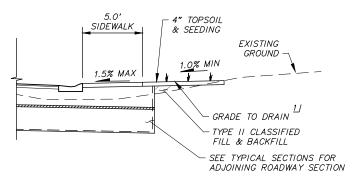
TYPICAL SECTIONS

KENSINGTON DRIVE & E. NORTHERN LIGHTS BOULEVARD

HOR, N/A VER. N/A

DATE JUNE 2023 STATUS 95%

# TYPICAL SECTION "E" DRIVEWAY PAVED, CONCRETE, OR INTERLOCKING CONCRETE PAVER



#### WITH ATTACHED SIDEWALK

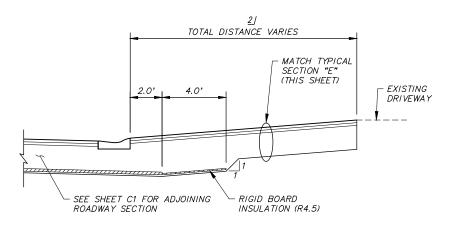
# 4" TOPSOIL & SEEDING EXISTING GROUND 1.0% MIN GRADE TO DRAIN TYPE II CLASSIFIED FILL & BACKFILL SEE TYPICAL SECTIONS FOR ADJOINING ROADWAY SECTION

#### #J FOOT NOTES:

- 1. PLACE 4" OF TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS.
- 2. SEE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLE SHEET T1 & RECONSTRUCT DRIVEWAY DETAILS 2 & 3 SHEET D2 FOR DRIVEWAY RECONSTRUCTION INFORMATION.
- 3. INSTALL INSULATION ADJACENT TO DRIVEWAY AND TRANSITION TO DRIVEWAY SECTION PER DETAIL 3, THIS SHEET
- 4. THE MAXIMUM SIDEWALK CROSS SLOPE IS 2% AT DRIVEWAYS. TRANSITION FROM TYPICAL 1.5% SIDEWALK CROSS SLOPE OVER 5 FEET.
- 5. OMIT 1.0' SHOULDER FOR PARCEL 1, 12, & 22-25 DRIVEWAYS WITHIN 10' OF FXISTING TREES

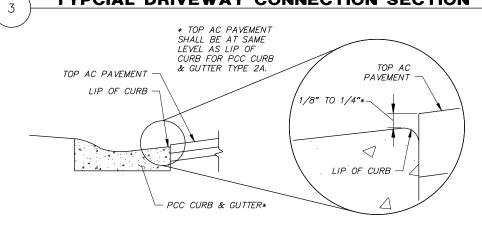
### NO SIDEWALK

#### <u>2</u>] TOTAL DISTANCE VARIES - MATCH TYPICAL SECTION "E" (THIS SHEET) <u>4</u>] 5.0' SIDEWALK EXISTING 4.0' DRIVEWAY 1.0' 1.5% MĀX RIGID BOARD PCC SIDEWALK WITH WELDED INSULATION (R4.5) STEEL WIRE REINFORCEMENT (6" THICK, STANDARD FINISH) SEE SHEET C1 FOR ADJOINING DRIVEWAY WITH ATTACHED SIDEWALK ROADWAY SECTION -



DRIVEWAY WITH NO SIDEWALK

## TYPCIAL DRIVEWAY CONNECTION SECTION

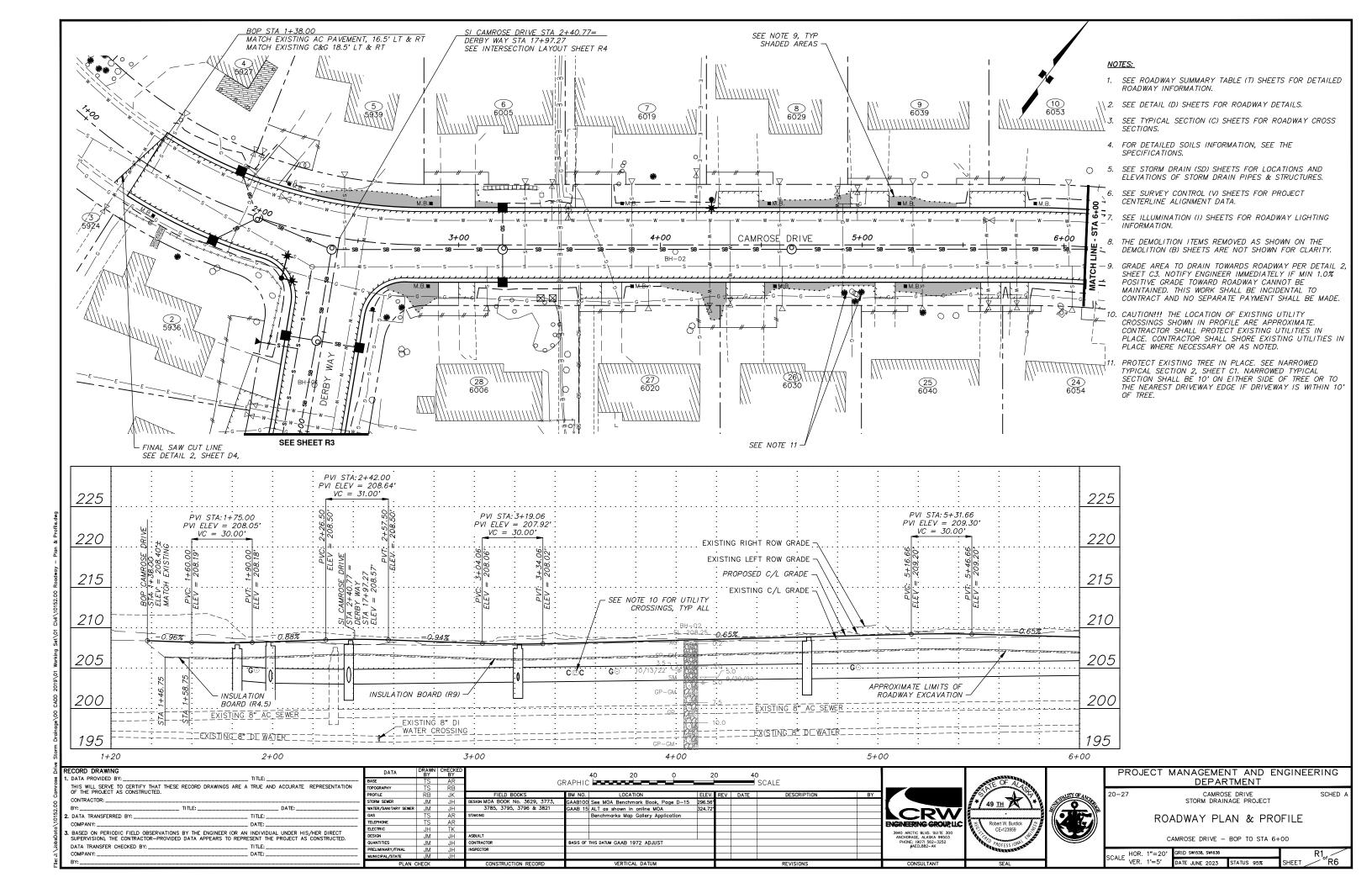


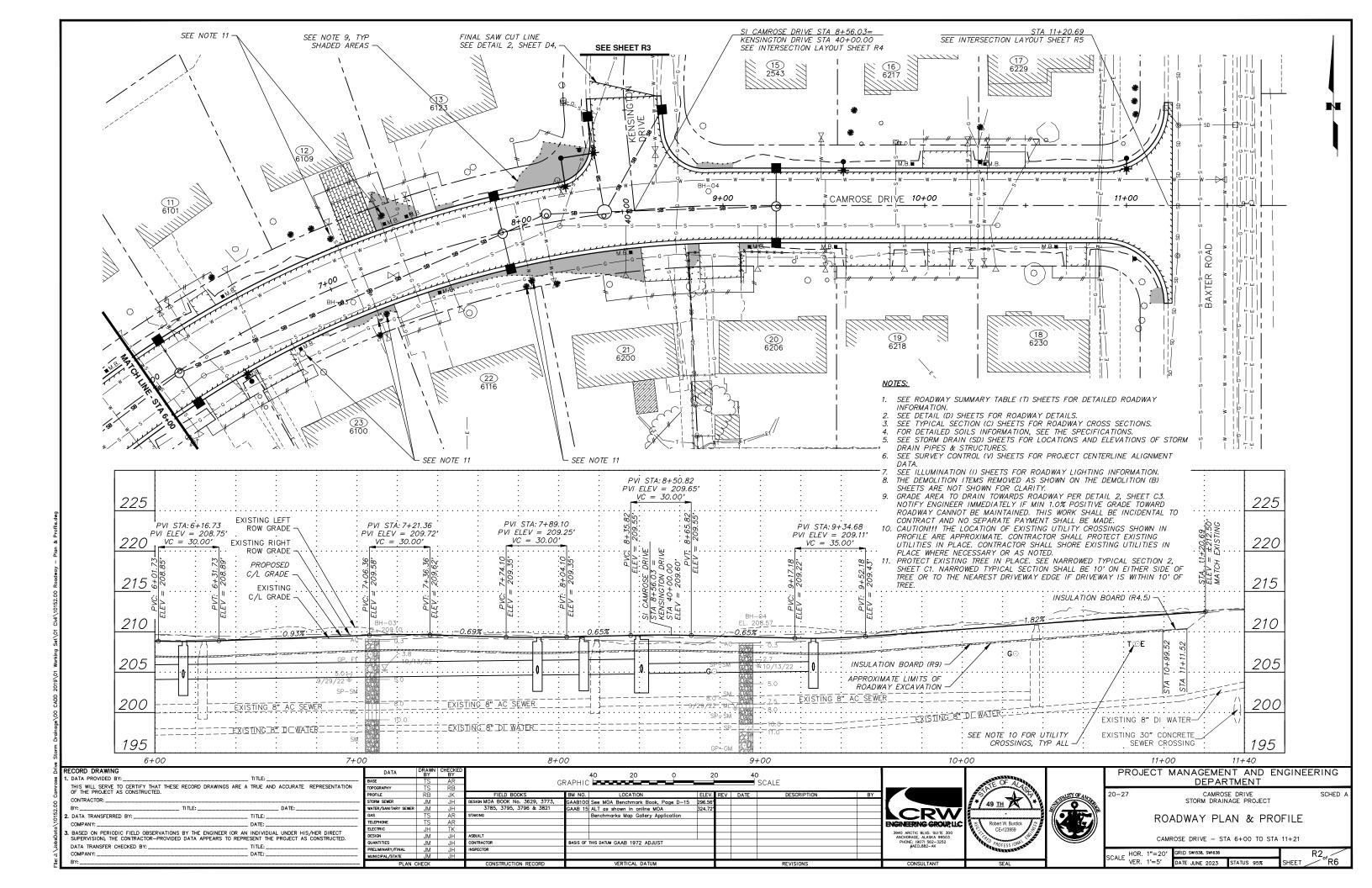
#### SPECIAL FILL GRADING DETAILS

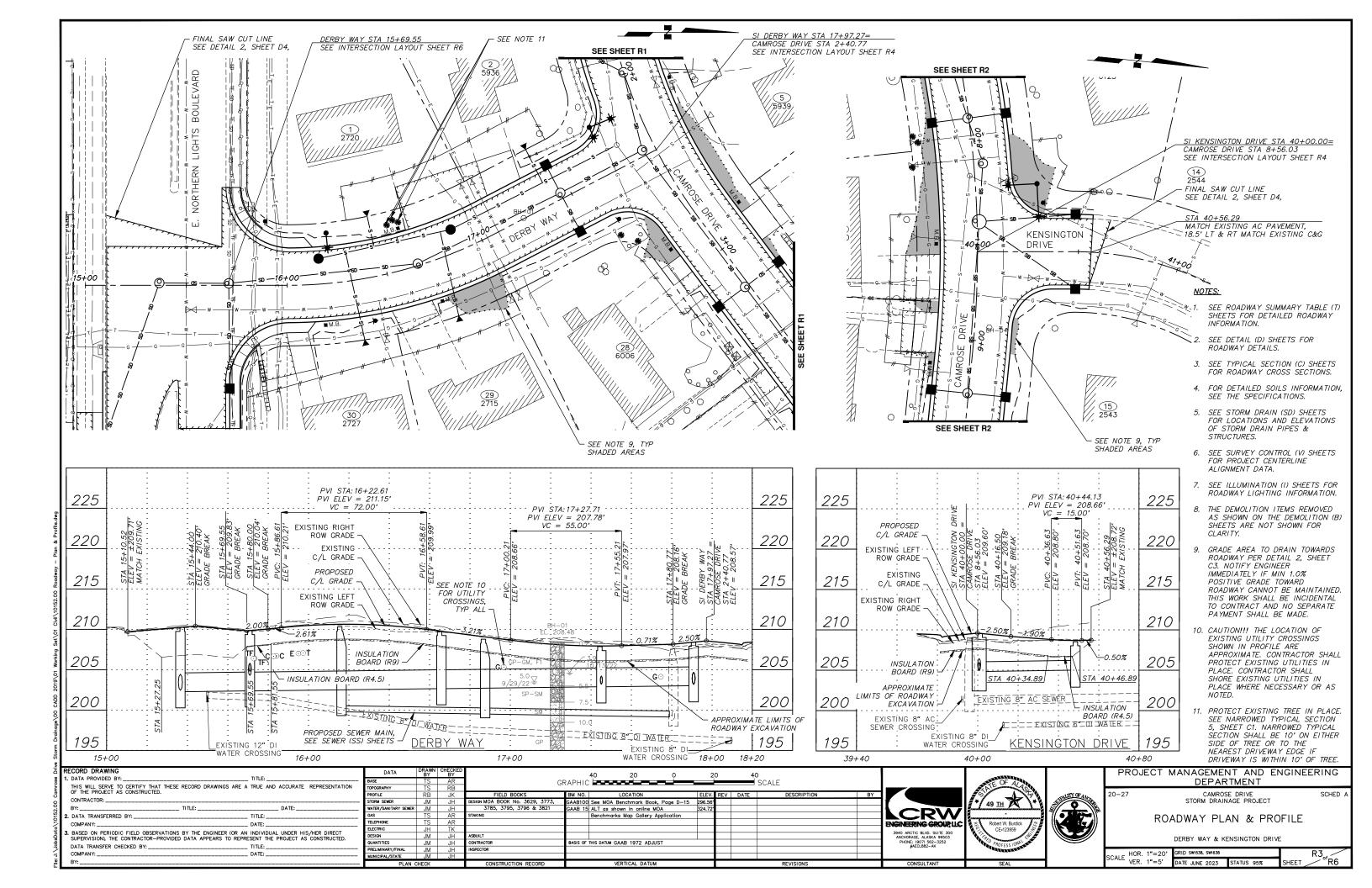
## CURB AND GUTTER & AC PAVEMENT EDGE DETAIL

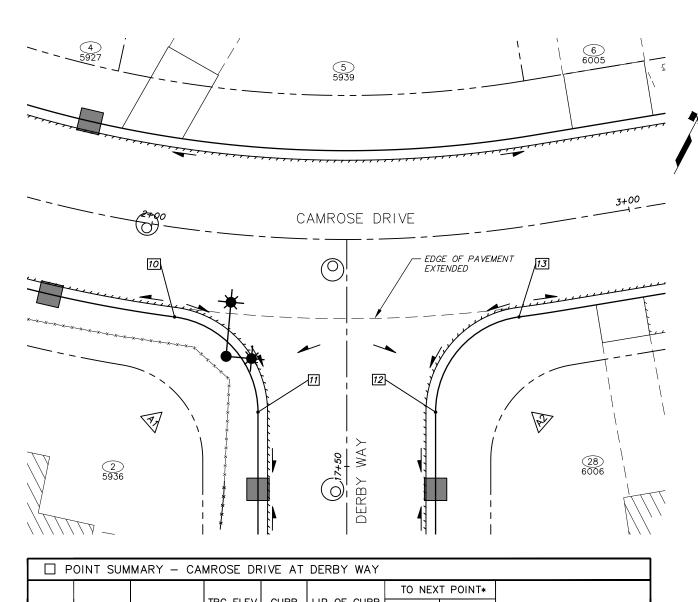
e St								$\smile$								
	RECORD DRAWING  1. DATA PROVIDED BY: TITLE:	DATA	DRAWN 0	CHECKED								- AND		PROJECT	MANAGEMENT AND E	NGINEERING
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ပ	CONTRACTOR:	PROFILE STORM SEWER	RB JM	JK JH	FIELD BOOKS DESIGN MOA BOOK No. 3629, 3773,	BM NO. LOCATION  GAAB100 See MOA Benchmark Book, Page D-	ELEV. RE -15 296.56'	V DATE	DESCRIPTION	BY		79 TH 15 TH	CURNITY OF ANOTHER	20-27	CAMROSE DRIVE STORM DRAINAGE PROJECT	SCHED
52.0	BY: DATE:	WATER/SANITARY SEWER	JM	JH		GAAB 15 ALT as shown in online MOA  Benchmarks Map Gallery Application	324.72'	$\perp$			CPW	49 11		1	T. (D. O. A. O.	_
10	COMPANY: DATE:	TELEPHONE	TS	AR	STARMO	Benchmarks wap Gallery Application					ENGINEERING GROUP, INC.	Robert W. Burdick		1	TYPICAL SECTIONS	,
Dato	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.	ELECTRIC DESIGN	JH JM	JH	ASBUILT		$\pm$	+			3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECL882-AK	CE-123959		1	MISCELLANEOUS	
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e: J:	COMPANY: DATE: DATE:	MUNICIPAL/STATE	JM	JH						_		44664		SCALE	GRID SW1538, SW1638	C3 of C3
r= I	81	PLAN	CHECK		CONSTRUCTION RECORD	VERTICAL DATUM			REVISIONS		CONSULTANT	SEAL		VEIN. IN/A	DATE JUNE 2023 STATUS 95%	SHEET / CJ

inage\00 CADD 2019\01 Working Set\01 Civil\10152.00 Typical Sections









☐ P	☐ POINT SUMMARY — CAMROSE DRIVE AT DERBY WAY										
						TO NEX	T POINT*				
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	ELEV (FT)	LENGTH (FT)	SLOPE (%)	DESCRIPTION			
10	2+07.23	18.5 RT	208.09	2	207.92	31.66	-1.00%	PC			
11	2+24.58	36.6 RT	207.78	2	207.61	1	-	PT			
12	2+56.97	36.6 RT	207.90	2	207.73	31.66	0.62%	PC			
13	2+74.32	18.5 RT	208.10	2	207.93	_	_	PT			

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

#### LEGEND

→ APPROXIMATE DIRECTION OF DRAINAGE FLOWS

#### <u>NOTES</u>

- 1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
- 2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
- 3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
- 4. LIP OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF PAVEMENT.

	22		CUT LINE 2, SHEET D4,
		EDGE OF PAVEMENT	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
<del></del>		SE DRIVE	
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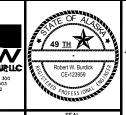
☐ POINT SUMMARY — CAMROSE DRIVE AT KENSINGTON DRIVE									
						TO NEX	T POINT*		
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	LENGTH (FT)	SLOPE (%)	DESCRIPTION	
20	8+20.22	18.5 RT	209.21	2	209.04	33.00	-1.75%	PC	
21	8+38.80	37.5 RT	208.63	2	208.46	11.45	-0.90%	PT	
22	8+39.16	48.9 RT	208.53	2	208.36	-	-	CATCH BASIN	
23	8+72.90	48.7 RT	208.53	2	208.36	11.28	0.91%	CATCH BASIN	
24	8+73.25	37.5 RT	208.63	2	208.46	33.00	1.54%	PC	
25	8+91.83	18.5 RT	209.14	2	208.97	_	-	PT	

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

△ CURB RADIUS TABLE											
POINT	TBC RA	DIUS POINT	RADIUS	DESCRIPTION							
POINT	STATION OFFSET (FT)		(FT)	DESCRIPTION							
A1	2+07.23	38.5 RT	20.0	DERBY WAY							
A2	2+74.32	38.5 RT	20.0	DERBY WAY							
B1	8+20.22	38.5 LT	20.0	KENSINGTON DRIVE							
B2	8+91.83	38.5 LT	20.0	KENSINGTON DRIVE							

RECORD DRAWING	Т
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.	TO
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CONTRACTOR:	s
BY: DATE: TITLE:	W
2. DATA TRANSFERRED BY:	G
COMPANY: DATE:	T
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT	E
SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.	D
DATA TRANSFER CHECKED BY: TITLE:	Q
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COMPANY: DATE:	M

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TOPOGRAPHY	TS	RB	ŭ .						COTTEE		J
PROFILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	]
STORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56					1
WATER/SANITARY SEWER	JM	Ţ	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72					7
GAS	TS	AR	STAKING		Benchmarks Map Gallery Application						1
TELEPHONE	TS	AR									1
ELECTRIC	JH	TK									1
DESIGN	JM	JH	ASBUILT								1
QUANTITIES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST						1
PRELIMINARY/FINAL	JM	JH	INSPECTOR								1
MUNICIPAL/STATE	JM	JH									1
PLAN (	CHECK		CONSTRUCTION RECORD		VERTICAL DATUM				REVISIONS		Т





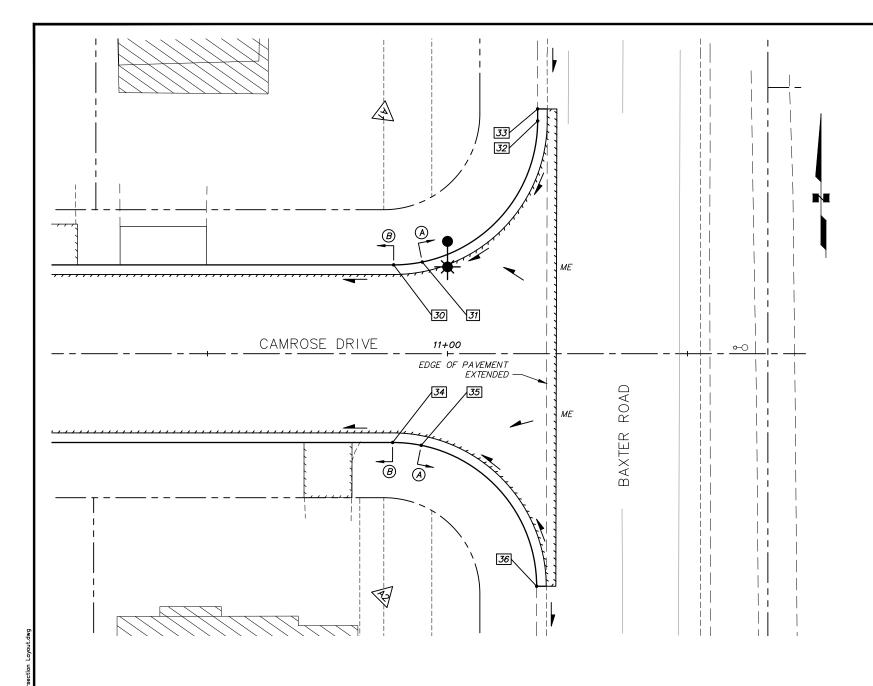
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

CAMROSE DRIVE STORM DRAINAGE PROJECT

INTERSECTION LAYOUT

DERBY WAY & KENSINGTON DRIVE

	HOR.	1"=10'	GRID SW1538, SW1638			R4./
ALE	VER.	N/A	DATE JUNE 2023	STATUS 95%	SHEET	<u>∕°</u> *R6



□ P	☐ POINT SUMMARY — CAMROSE DRIVE AT BAXTER ROAD											
						TO NEX	T POINT*					
POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	LENGTH (FT)	SLOPE (%)	DESCRIPTION				
30	10+88.79	18.5 RT	211.68	2	211.51	6.40	2.38%	PC, END TYPE 2 CURB & GUTTER				
31	10+94.75	19.1 RT	212.06	1	211.66	43.85	2.38%	BEGIN TYPE 1 CURB & GUTTER				
32	11+18.79	48.5 RT	213.10	1	212.70	2.50	0.63%	PT				
33	11+18.79	51.0 RT	213.17±	1	212.72±		_	MATCH EXISTING				
34	10+88.58	18.5 RT	211.67	2	211.50	6.40	1.71%	PC, END TYPE 2 CURB & GUTTER				
35	10+94.54	19.1 RT	212.01	1	211.61	43.81	1.71%	BEGIN TYPE 1 CURB & GUTTER				
36	11+18.58	48.5 RT	212.76±	1	212.36±		-	PT, MATCH EXISTING				

<sup>\*</sup> LENGTH & SLOPE TO NEXT POINT IS ALONG LIP OF CURB

Δ	△ CURB RADIUS TABLE										
POINT	TBC RA	DIUS POINT	RADIUS	DESCRIPTION							
POINT	STATION	OFFSET (FT)	(FT)	DESCRIPTION							
A1	10+88.79	48.5 LT	30.0	BAXTER ROAD							
A2	10+88.58	48.5 RT	30.0	BAXTER ROAD							

DESIGNATION CURB TYPE

A TYPE 1 CURB

B) TYPE 2 CURB

LEGEND

→ APPROXIMATE DIRECTION OF DRAINAGE FLOWS

#### <u>NOTES</u>

- 1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
- 2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
- 3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
- 4. LIP OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF PAVEMENT.

٥	E RECORD DRAWING		DA
Se	1. DATA PROVIDED BY:		BASE
Ĕ	THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A OF THE PROJECT AS CONSTRUCTED.	TRUE AND ACCURATE REPRESENTATION	TOPOGRAPHY
8	Ŏ.		PROFILE
8	CONTRACTOR:		STORM SEWE
		DATE:	WATER/SANI
152	2. DATA TRANSFERRED BY:	TITLE:	GAS
$\neg$	COMPANY.	DATE:	TELEPHONE
Ē,	3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN		ELECTRIC
\JobsData`	SUPERVISION). THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRE	SENT THE PROJECT AS CONSTRUCTED	DESIGN
ĕ	DATA TRANSFER CHECKED BY:		QUANTITIES
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÷	COMPANY:		MUNICIPAL/
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DATA	DRAWN BY	CHECKED BY			20 10 0	1	0	20			
BASE	TS	AR	GF	RAPHIC				SCALE	-		1
TOPOGRAPHY	TS	RB	0	., ., ., .,							
PROFILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	Ш
STORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56'					₩.
WATER/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72					1
GAS	TS	AR	STAKING		Benchmarks Map Gallery Application						
TELEPHONE	TS	AR									EN
ELECTRIC	JH	TK									
DESIGN	JM	JH	ASBUILT								1
QUANTITIES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST						1
PRELIMINARY/FINAL	JM	JH	INSPECTOR								1
MUNICIPAL/STATE	JM	JH									
PLAN C	HECK		CONSTRUCTION RECORD		VERTICAL DATUM	REVISIONS					

PROFINE BLVD. SUITE 300 ANCHORAGE, ALASAA 99903 PHONE 1907 300-1202 ALCUSSUE 300-2022



#### PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

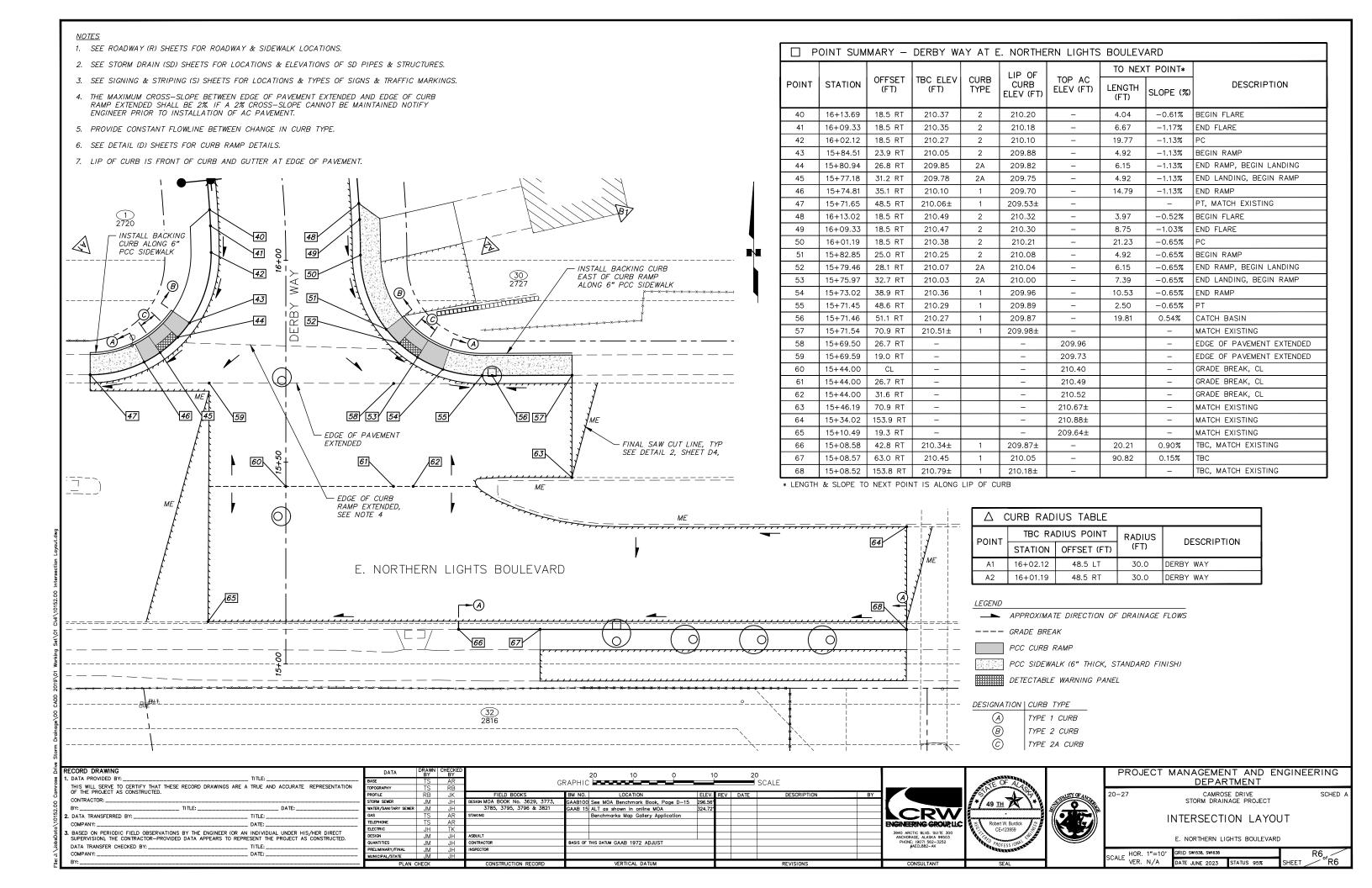
20-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

STORM DRAINAGE PROJECT

INTERSECTION LAYOUT

BAXTER ROAD

	HOR.	1"=10'	GRID SW1538, SW1638		R5 . ~
LE	VER.	N/A	DATE JUNE 2023	STATUS 95%	SHEET / OT RE



#### RECONSTRUCT DRIVEWAY

		CENTER		DRIVEWAY	CURB TYPE AT	SKEW	LANDING	LANDING	TOTAL	EXISTING	PROPOSED	SURFACE		
SHEET	PARCEL	REFERE STATION	OFFSET	WIDTH (FT)	DRIVEWAY	ANGLE (DEGREES)	LENGTH (FT)	GRADE	DISTANCE (FT)	GRADE	GRADE	TYPE ON PROPERTY	CONSTRUCT PER DETAIL	REMARKS
R1	5	1+96.78	LT	12	2	-72	N/A	N/A	17.5	6.6%	8.4%	CONCRETE	DETAIL 3, SHEET D2	
R1	28 WEST	2+94.98	RT	10	2	90	N/A	N/A	8.0	6.5%	2.7%	CONCRETE	DETAIL 3, SHEET D2	
R1	6	2+99.64	LT	17	2	-90	N/A	N/A	11.5	5.2%	4.3%	CONCRETE	DETAIL 3, SHEET D2	
R1	28 EAST	3+03.98	RT	8	2	90	N/A	N/A	8.0	6.5%	2.7%	ASPHALT	DETAIL 3, SHEET D2	
R1	27 WEST	3+65.52	RT	10.5	2	90	N/A	N/A	8.0	5.9%	6.1%	ASPHALT	DETAIL 3, SHEET D2	
R1	7	3+66.81	LT	18	2	-90	N/A	N/A	11.5	9.2%	6.9%	CONCRETE	DETAIL 3, SHEET D2	
R1	27 EAST	3+75.77	RT	10	2	90	N/A	N/A	8.0	5.9%	6.1%	CONCRETE	DETAIL 3, SHEET D2	
R1	8	4+38.79	LT	20	2	-90	N/A	N/A	8.0	4.9%	3.7%	ASPHALT	DETAIL 3, SHEET D2	
R1	26	4+42.05	RT	19	2	90	N/A	N/A	8.0	5.6%	1.8%	ASPHALT	DETAIL 3, SHEET D2	
R1	9 WEST	5+03.72	LT	19	2	-90	N/A	N/A	8.0	6.1%	2.1%	ASPHALT	DETAIL 3, SHEET D2	
R1	25 WEST	5+11.36	RT	10	2	90	N/A	N/A	8.0	8.4%	5.1%	ASPHALT	DETAIL 3, SHEET D2	
R1	9 EAST	5+58.00	LT	9.5	2	-90	N/A	N/A	8.0	6.1%	7.7%	ASPHALT	DETAIL 3, SHEET D2	
R1	25 EAST	5+63.72	RT	10	2	90	N/A	N/A	8.0	6.3%	4.8%	ASPHALT	DETAIL 3, SHEET D2	
R1	10	5+71.75	LT	18	2	-90	N/A	N/A	8.0	8.1%	8.7%	ASPHALT	DETAIL 3, SHEET D2	
R1	24 WEST	5+77.79	RT	9	2	90	N/A	N/A	8.0	4.1%	4.5%	ASPHALT	DETAIL 3, SHEET D2	
R2	24 EAST	6+27.32	RT	18	2	90	N/A	N/A	11.5	4.4%	7.1%	ASPHALT	DETAIL 3, SHEET D2	
R2	11	6+41.57	LT	10	2	-86	N/A	N/A	8.4	1.7%	3.1%	ASPHALT	DETAIL 3, SHEET D2	
R2	23	6+58.30	RT	19	2	90	N/A	N/A	11.5	2.0%	4.0%	ASPHALT	DETAIL 3, SHEET D2	
R2	12	7+23.16	LT	16	2A	-90	N/A	N/A	20.5	1.2%	1.2%	INTERLOCKING CONCRETE PAVERS	DETAIL 3, SHEET D2	TRANSITION FROM TYPE 2 TO TYPE 2A C&G OVER 4 FEET
R2	22	7+36.05	RT	18	2	90	N/A	N/A	9.9	4.6%	2.9%	CONCRETE	DETAIL 3, SHEET D2	
R2	13	7+56.44	LT	10	2	-90	N/A	N/A	11.5	6.2%	4.6%	CONCRETE	DETAIL 3, SHEET D2	
R2	21	8+68.82	RT	22	2	93	N/A	N/A	17.5	5.7%	1.4%	ASPHALT	DETAIL 3, SHEET D2	
R2	20	8+97.83	RT	20	2	91	N/A	N/A	17.4	5.7%	4.4%	ASPHALT	DETAIL 3, SHEET D2	
R2	19 WEST	9+71.87	RT	22	2	90	N/A	N/A	11.5	4.7%	6.0%	ASPHALT	DETAIL 3, SHEET D2	
R2	19 EAST	10+07.04	RT	11	2	90	N/A	N/A	11.5	5.3%	6.4%	ASPHALT	DETAIL 3, SHEET D2	
R2	16	10+10.92	LT	24	2	-90	N/A	N/A	8.5	4.2%	6.5%	ASPHALT	DETAIL 3, SHEET D2	
R2	17	10+40.81	LT	18	2	-90	N/A	N/A	8.0	4.9%	6.5%	CONCRETE	DETAIL 3, SHEET D2	
R2	18	10+75.12	RT	10	2	90	N/A	N/A	11.5	4.7%	7.5%	ASPHALT		
R3	30 SOUTH	15+91.18	RT	15	2	103	5.0	1.9%	25.8	5.3%	7.4%	ASPHALT	DETAIL 2, SHEET D2	
R3	30 NORTH	16+03.50	RT	10.5	2	101	4.8	2.3%	24.8	7.9%	9.5%	CONCRETE	DETAIL 2, SHEET D2	
R3	29	16+57.85	RT	20	2	102	N/A	N/A	9.8	4.6%	5.2%	ASPHALT	DETAIL 3, SHEET D2	
R3	1	16+86.85	LT	32	2	-86	N/A	N/A	21.3	2.4%	2.9%	ASPHALT	DETAIL 3, SHEET D2	
R3	2 SOUTH	17+07.33	LT	10	2	-81	N/A	N/A	18.8	7.0%	4.8%	ASPHALT	DETAIL 3, SHEET D2	
R3	2 NORTH	17+21.52	LT	18	2	-80	N/A	N/A	16.4	5.9%	8.1%	CONCRETE	DETAIL 3, SHEET D2	

#### RECONSTRUCT DRIVEWAY NOTES:

- 1. "LANDING LENGTH" BEGINS AT THE BACK OF CURB & GUTTER.
- 2. "LANDING GRADE" IS THE GRADE OF THE LANDING FROM THE BACK OF CURB & GUTTER TO THE END OF LANDING.
- 3. "SKEW ANGLE" ("+" IS CLOCKWISE AND "-" IS COUNTER CLOCKWISE) IS MEASURED FROM PROJECT CENTERLINE WITH O DEGREES ALIGNED ALONG INCREASING STATIONS.
- 4. "TOTAL DISTANCE" IS THE LIMIT OF RECONSTRUCTION BEGINNING AT THE BACK OF CURB & GUTTER.
- 5. "PROPOSED GRADE" IS APPROXIMATE GRADE FROM THE END OF THE LANDING TO THE LIMIT OF RECONSTRUCTION. ACTUAL CONSTRUCTION GRADE MAY VARY.
- 6. WIDTHS, LENGTHS & GRADES PRESENTED IN THE DRIVEWAY SUMMARY TABLE ARE MEASURED ALONG SKEW ANGLE AND MAY NOT BE PERPENDICULAR TO ROADWAY CENTERLINE ALIGNMENT.
- 7. MATCH EXISTING DRIVEWAY WIDTH AT LIMITS OF DRIVEWAY RECONSTRUCTION. WIDTH OF DRIVEWAY AS SHOWN IN SUMMARY TABLE SHALL EXTEND TO BACK OF SIDEWALK OR BACK OF CURB ALONG SKEW ANGLE.

ECORD DRAWING	
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THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION	TOF
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STORM SEWER	JM	JL	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56					н
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PROJECT MANAGEMENT AND ENGINEERING
DEPARTMENT CAMROSE DRIVE STORM DRAINAGE PROJECT

SCHED A

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A DATE JUNE 2023 STATUS 95% 267

111

DERBY WAY

E. NORTHERN LIGHTS BLVD MEDIAN

#### PCC CURB & GUTTER (ALL TYPES) NOTES:

15+72 TO 17+79

15+08

1. SEE INTERSECTION LAYOUT SHEETS SHEETS R4-R6 FOR LOCATIONS AND TYPES OF CURB AND GUTTER.

RT

42.8 RT TO 153.8 RT

30	.(	23	5

R3

R6

P.C.C. S	IDEWALK						
SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R1	1+89.9	18.5 LT	2+03.7	18.5 LT		23	PARCEL 5 DRIVEWAY
R1	2+90.0	18.5 RT	3+00.0	18.5 RT		9	PARCEL 28 DRIVEWAY
R1	2+91.1	18.5 LT	3+08.1	18.5 LT		22	PARCEL 6 DRIVEWAY
R1	3+57.8	18.5 LT	3+75.8	18.5 LT		23	PARCEL 7 DRIVEWAY
R1	3+70.8	18.5 RT	3+80.8	18.5 RT		9	PARCEL 27 DRIVEWAY
R2	7+26.7	18.5 RT	7+45.4	18.5 RT		20	PARCEL 22 DRIVEWAY
R2	7+51.6	18.5 LT	7+61.3	18.5 LT		13	PARCEL 13 DRIVEWAY
R2	10+31.8	18.5 LT	10+49.8	18.5 LT		16	PARCEL 17 DRIVEWAY
R3	15+71.5	70.9 RT	15+73.0	38.9 RT		17	
R3	15+71.7	48.5 LT	15+74.8	35.1 LT		7	
R3	15+82.9	25.0 RT	16+13.0	18.5 RT		16	
R3	15+84.5	23.9 LT	16+13.7	18.5 LT	14		
R3	15+99.6	23.6 RT	16+09.3	23.5 RT		23	PARCEL 30 DRIVEWAY
R3	17+12.4	18.5 LT	17+30.7	18.5 LT		33	

30.04

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

SHEET	APPX	OFFSET	CURB RAMP	DETECTABLE	CURB RAMP	REMARKS			
	STATION	(FT)	AREA (SY)	WARNING AREA (SF)	TYPE				
R3	15+78	30.3 RT	9	11	PARALLEL	E. NORTHERN LIGHTS BLVD			
R3	15+79	28.9 LT	8	11	PARALLEL	E. NORTHERN LIGHTS BLVD			

#### PCC CURB RAMP & DETECTABLE WARNING NOTES:

1. SEE INTERSECTION LAYOUT SHEET R6 FOR LOCATIONS OF CURB RAMPS AND DETECTABLE WARNINGS.

30.12

REMOVE	REMOVE AND RESET INTERLOCKING CONCRETE PAVERS								
SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	AREA (SF)	REMARKS			
R2	7+15.4	18.5 LT	7+30.9	18.5 LT	328.0	PARCEL 12 DRIVEWAY			

50.06

REMOVE	AND REP	LACE MANHOLE	CONE SECTION	OR MANHOLE COVER	AND FRAME
SHEET	STATION	OFFSET (FT)	CONE SECTION	COVER AND FRAME	REMARKS
R1	2+30	16.6 RT	X		
R2	6+24	8.6 RT		X	
R2	8+18	2.5 RT	X		
R2	10+36	9.8 RT		X	

55.12

ADJUST	ADJUST CATCH BASIN TO FINISH GRADE								
SHEET	STATION	OFFSET (FT)	REMARKS						
R2	11+19	48.2 LT							

60.03 & 60.05

REMOVE AND REPLACE VALVE BOX TOP SECTION OR ADJUST KEY BOX							
SHEET	STATION	OFFSET (FT)	KEY BOX	VALVE BOX TOP SECTION	REMARKS		
R1	2+09	13.2 LT		X			
R1	3+54	15.0 LT		X			
R1	4+24	31.1 RT	Х				
R1	5+63	12.2 LT		X			
R2	7+32	5.0 RT		X			
R2	7+34	35.3 LT	Х				
R2	8+22	14.4 LT		X			
R2	8+68	28.0 LT		X			
R3	15+52	12.1 RT	Х				
R3	17+03	29.7 LT	Х				
R3	17+09	28.9 LT		X			

#### REMOVE AND REPLACE VALVE BOX TOP SECTION OR ADJUST KEY BOX NOTES:

1. SEE MASS DETAIL 60-16.

SPECIAL	FILL GRADING	TABLE		
SHEET	APPROX BEGIN STATION	APPROX END STATION	OFFSET	REMARKS
R1	2+24	2+91	LT	
R1	2+65	2+90	RT	
R1	3+08	3+20	LT	
R1	4+00	4+33	RT	
R1	4+49	4+94	LT	
R1	4+52	4+85	RT	
R1	5+13	5+47	LT	
R1	5+16	5+59	RT	

#### SPECIAL FILL GRADING NOTES:

- 1. SPECIAL FILL GRADING SHALL BE PER DETAIL 2, SHEET C3.
- 2. LOCATIONS ARE APPROXIMATE, CONTRACTOR SHALL MODIFY LOCATIONS IN THE FIELD PER THE DIRECTION OF THE ENGINEER OR AS NECESSARY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.

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



#### PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

OFFSET

RT

LT

RT

LT

RT

RT

LT

RT

RT

REMARKS

DERBY WAY

SCHED

20-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

APPROX END

STATION

6+90

7+15

7+26

7+52

8+57

8+87

9+05

9+20

11+18

17 + 01

SPECIAL FILL GRADING TABLE (CONTINUED)

APPROX BEGIN

STATION

6+69

6+95

7+00

7 + 31

7+45

8+81

8+87

9+08

11+12

SHEET

R2

R2

R2

R2

R2

R2

R2

R2

R2

ROADWAY	SUMMARY	TABLES

SANITARY SEWER MANHOLE CONE/RING NOTES: 1. SEE MASS DETAILS 50-05, 50-25 AND 50-26.

3. PER THE THE SECTION 50.06 SPECIAL PROVISIONS, THE REMOVE AND REPLACE MANHOLE CONE SECTION PAY ITEM INCLUDES

FRAME. SEE SECTION 50.06 SPECIAL PROVISIONS FOR A COMPLETE LIST OF

INCIDENTAL ITEMS.

2. COORDINATE W/ ENGINEER IN FIELD TO VERIFY

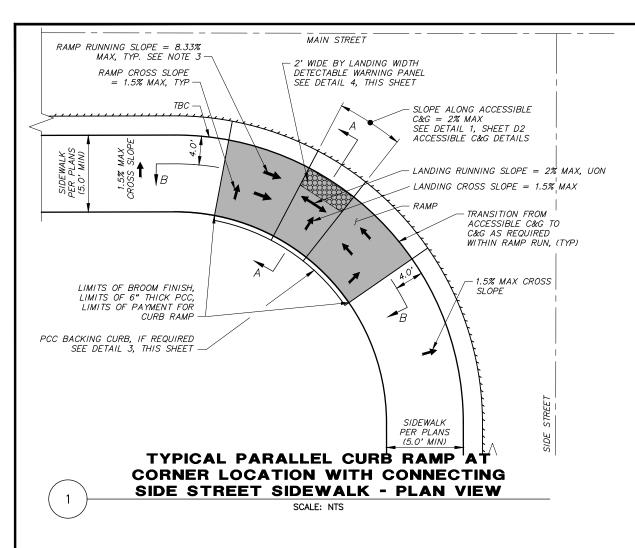
WHETHER CONE SECTION OR MANHOLE COVER AND FRAME REPLACEMENT IS REQUIRED.

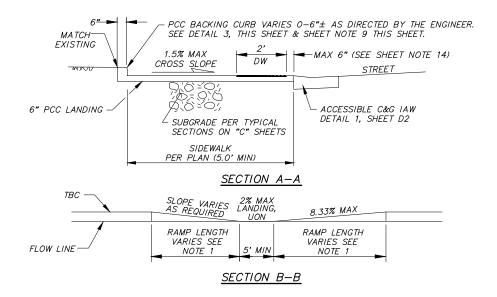
REMOVING AND REPLACING THE COVER AND

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DATA LOCATION GAAB100 See MOA Benchmark Book, Page D-15 296.5 GAAB 15 ALT as shown in online MOA 324.7: Benchmarks Map Gallery Application SIGN ANTITIES CONTRACTOR BASIS OF THIS DATUM GAAB 1972 ADJUST





TYPICAL CURB RAMP SECTIONS

SCALE: NTS

2

PCC BACKING CURB

LANDING SURFACE

6"

12"

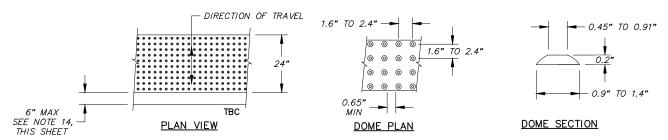
6"

#### BACKING CURB DETAIL NOTES:

1. THE TOP OF BACKING CURB SHALL TRANSITION BACK TO TOP OF SIDEWALK AT TOP RAMP SECTION OF CURB RAMP UNLESS OTHERWISE SHOWN ON PLANS.

<u>MONOLITHIC</u>

BACKING CURB DETAIL
SCALE: NTS



# 4 DETECTABLE WARNING PANEL SCALE: NTS

#### SHEET NOTES:

- 1. SEE SHEET R6 FOR CURB RAMP TYPES, LOCATIONS, RAMP, LANDING AND FLARE LENGTHS AND ELEVATIONS. RAMP/FLARE/LANDING LENGTH FOR PARALLEL CURB RAMPS SHALL BE AS MEASURED 4' OFF BACK OF CURB.
- 2. NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
- 3. FOR PARALLEL CURB RAMPS, RAMPS SHALL BE 15 FEET MAXIMUM. RAMPS SHALL HAVE THE OUTSIDE EDGES AND JOINTS TRIMMED WITH A 1/4-INCH RADIUS EDGING TOOL.
- 4. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL
- 5. MINIMUM FLOWLINE SLOPE IN CURB RETURN IS 0.5%, UNLESS OTHERWISE NOTED.
- 6. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
- 7. CONSTRUCT SIDEWALK ADJACENT TO CURB RAMP PER THE TYPICAL SECTIONS SHOWN ON THE "C" SHEETS.
- 8. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
- 9. FORM BACKING CURB AS DIRECTED BY THE ENGINEER TO MATCH EXISTING GROUND. PAYMENT FOR THIS CURB SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. IF EXISTING GROUND BEHIND SIDEWALK IS GRAVEL OR GRASS, GRADE TO MATCH EXISTING GROUND. PAYMENT FOR GRADING SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. 4" TOPSOIL AND SEEDING SHALL BE PLACED ON DISTURBED GRASS AREAS PER THE LANDSCAPING PLANS.
- 10. CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
- 11. INSTALL YELLOW ADA APPROVED DETECTABLE WARNINGS (DW) PANELS UNLESS OTHERWISE NOTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. THERE SHALL BE NO LIP AT THE EDGE OF THE DETECTABLE CURB WARNINGS. SEE DETAIL 4, THIS SHEET.
- 12. DETECTABLE WARNINGS DOMES AT PARALLEL CURB RAMPS SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINATE DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
- 13. RAMP LOCATIONS MAY BE ADJUSTED TO ENSURE MINIMUM 48" CLEARANCE AROUND APPURTENANCES SUCH AS SIGNAL POLES, POWER POLES, LIGHT POLES, J—BOXES, SIGNS, CATCH BASINS AND MANHOLES. PRIOR TO PLACEMENT OF CONCRETE AND APPURTENANCES, THE RAMP LAYOUT AND LOCATION SHALL BE APPROVED BY THE ENGINEER.
- 14. GAP BETWEEN DETECTABLE WARNING PANELS AND BACK OF CURB ONLY ALLOWABLE AT CENTER OF CURB RAMPS. CORNERS OF DETECTABLE WARNINGS SHALL BE FLUSH WITH BACK OF CURB. IF REQUIRED BY THE ENGINEER CONTRACTOR SHALL CUT DETECTABLE WARNING PANELS PER THE MANUFACTURER'S RECOMMENDATIONS. CUTTING DW PANELS SHALL BE INCIDENTAL TO 30.04 DETECTABLE WARNINGS PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.

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5	PROFILE	RB	JK	FIELD BOOKS	BM NO. LOCATION	ELEV.	REV [	DATE I	DESCRIPTION	BY		<b>4</b> 5)	ONLTY OF ALL	20-27	CAMROSE DRIVE STORM DRAINAGE PROJEC	SCHED A
CONTRACTOR:	STORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100 See MOA Benchmark Book, Page D-15	296.56'						*/ 49 TH			STORM DRAINAGE PROJEC	CT .
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#### PCC CURB AND GUTTER TYPE 2A FOR USE IN CURB RAMPS WITH TYPE 2 C&G OR AS INDICATED ON THE PLANS.

#### ACCESSIBLE CURB & GUTTER NOTES:

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



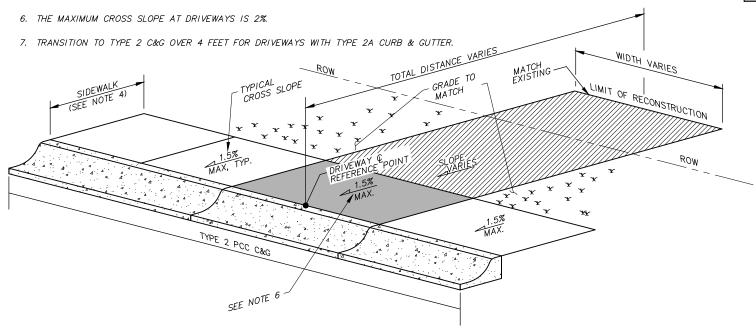
RECORD DRAWING

#### ACCESSIBLE CURB & GUTTER TYPE 2A SECTION

SCALE: NTS

#### SHEET DRIVEWAY NOTES:

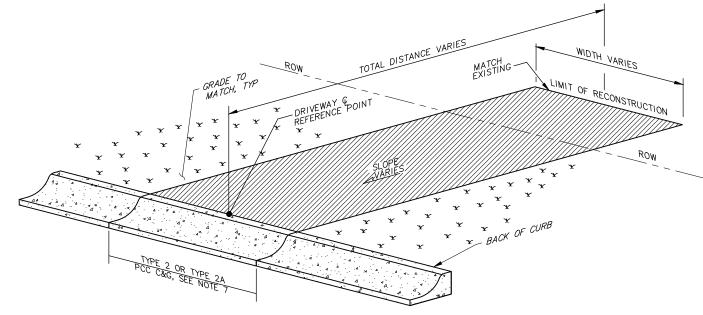
- 1. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
- 2. PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
- 3. CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES PROVIDED ON THE ROADWAY SUMMARY TABLE "T" SHEETS.
- 4. SIDEWALK THICKNESS SHALL BE 6" AT DRIVEWAYS UNLESS OTHERWISE NOTED. INSTALL WELDED STEEL WIRE REINFORCEMENT IN 6" THICK SIDEWALKS PER THE SPECIFICATIONS.
- 5. SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLES ON THE ROADWAY SUMMARY TABLE "T" AND DRIVEWAY RECONSTRUCTION DETAILS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.



#### SHEET DRIVEWAY LEGEND:

LIMITS OF 2" AC PAVING (CLASS E) FOR DRIVEWAY. CONCRETE & INTERLOCKING CONCRETE PAVER DRIVEWAY SURFACES SHALL MATCH SECTION E ON SHEET C3

PCC SIDEWALK (6" THICK, STANDARD FINISH), SEE NOTE 4



# TYPICAL DRIVEWAY WITH ATTACHED SIDEWALK

#### TYPICAL DRIVEWAY WITH NO SIDEWALK SCALE: NTS

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TOPOGRAPHY	TS	RB									
PROFILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	
STORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56'					#
WATER/SANITARY SEWER	JM	Τ	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72					4
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TELEPHONE	TS	AR									ENG
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SINEERING GROUP INC. 3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECL882-AK	Robert W. Burdick CE-123959

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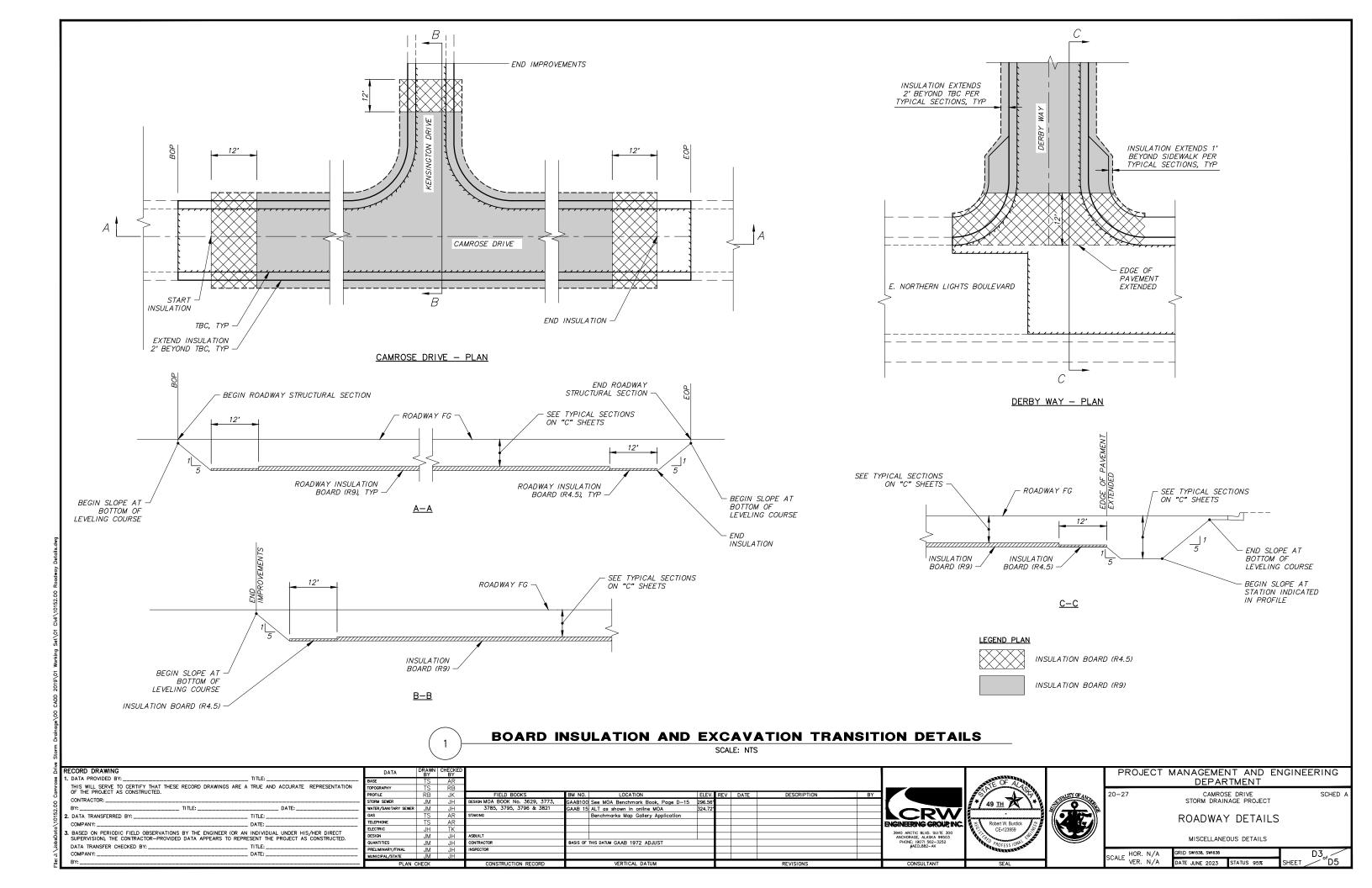
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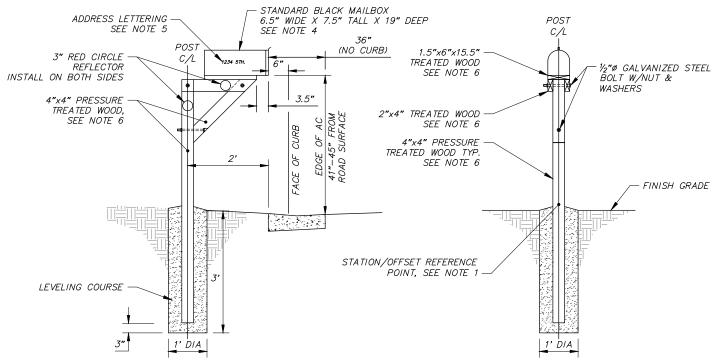
PROJECT MANAGEMENT AND ENGINEERING **DEPARTMENT** 20-27 SCHED CAMROSE DRIVE STORM DRAINAGE PROJECT

ROADWAY DETAILS

DRIVEWAYS

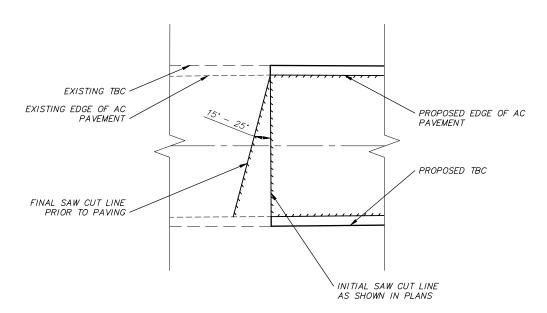
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#### TYPICAL WOOD POST MAILBOX INSTALLATION

SCALE: NTS



## TRANSVERSE SAW CUT JOINT DETAIL

#### RECORD DRAWING TITLE: THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: \_\_ 2. DATA TRANSFERRED BY: \_ TITLE: DATE: COMPANY: . 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: \_\_\_ \_ DATE: \_

2

	BASE	TS	AR I	
ı	TOPOGRAPHY	TS	RB	
	PROFILE	RB	JK	FIELD BO
	STORM SEWER	JM	JH	DESIGN MOA BOOK N
	WATER/SANITARY SEWER	JM	Ţ	3785, 3795,
	GAS	TS	AR	STAKING
	TELEPHONE	TS	AR	
	ELECTRIC	JH	TK	
	DESIGN	JM	JH	ASBUILT
	QUANTITIES	JM	JH	CONTRACTOR
	PRELIMINARY/FINAL	JM	Ŧ	INSPECTOR
	MUNICIPAL/STATE	JM	JH	
	PLAN (	CONSTRUCTO		

DATA

## DRAWN CHECKED BY BY GAAB100 See MOA Benchmark Book, Page D-15 296.5 AAB 15 ALT as shown in online MOA Benchmarks Map Gallery Application BASIS OF THIS DATUM GAAB 1972 ADJUST

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





PROJECT MANAGEMENT AND ENGINEERING **DEPARTMENT** SCHED

20-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

ROADWAY DETAILS

MAILBOX & MEDIAN DETAILS

D4<sub>of</sub> <u>D5</u> SCALE HOR. N/A VER. N/A DATE JUNE 2023 STATUS 95%

TYPICAL WOOD POST MAILBOX NOTES: 1. SEE "RELOCATE MAILBOX" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.

> 2. MAILBOXES AND SUPPORTS SHALL CONFORM WITH U.S. POSTAL SERVICE REGULATIONS. 3. NEWSPAPER RECEPTACLES SHALL CONFORM TO THE SAME SETBACK AND SUPPORT REGULATIONS AS MAILBOXES. WHERE NEWSPAPER RECEPTACLES

> 4. CONTRACTOR SHALL COORDINATE WITH THE MOA AND ENGINEER IN THE FIELD REGARDING MAILBOX SUBSTITUTIONS OR MAILBOX SIZING, PRIOR TO ORDERING MATERIALS.

AND MAILBOXES ARE TO BE MOUNTED TOGETHER, THE NEWSPAPER RECEPTACLE SHALL BE MOUNTED BELOW THE BOTTOM SURFACE OF THE MAILBOX.

5. 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

6. ALL WOOD SHALL BE ALL WEATHER WOOD SEALED WITH A SEMI-TRANSPARENT OIL BASED STAIN BROWN IN COLOR. SUBMIT COLOR SAMPLE FOR

#### SIGN SIGHT DISTANCE CLEARING DETAIL NOTES:

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

## SIGN SIGHT DISTANCE CLEARING DETAIL

# ROADWAY LUMINAIRE PER "I" SHEETS ROADWAY LUMINAIRE CLEARING LIMITS, SEE NOTE 3 2.0' SIDEWALK CLEARING LIMITS 12.0 SHLDR 2.0' EXISTING TREE SIDEWALK PER "C" AND "R" SHEETS **ELEVATION**

#### SIDEWALK AND ROADWAY LUMINAIRE CLEARING DETAIL NOTES:

- 1. SIDEWALK 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.
- 3. ROADWAY LUMINAIRE CLEARING LIMITS SHALL INCLUDE 20 FEET UP STATION AND DOWN STATION ALONG
- 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.

#### SIDEWALK AND ROADWAY LUMINAIRE CLEARING DETAIL SCALE: NTS

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: \_ . DATA TRANSFERRED BY: \_\_ \_ TITLE: \_ 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: \_\_ \_ DATE:

GAAB100 See MOA Benchmark Book, Page D-15 296.5 GAAB 15 ALT as shown in online MOA 324.7: ASIS OF THIS DATUM GAAB 1972 ADJUST

CRW NGINEERING GROUP INC





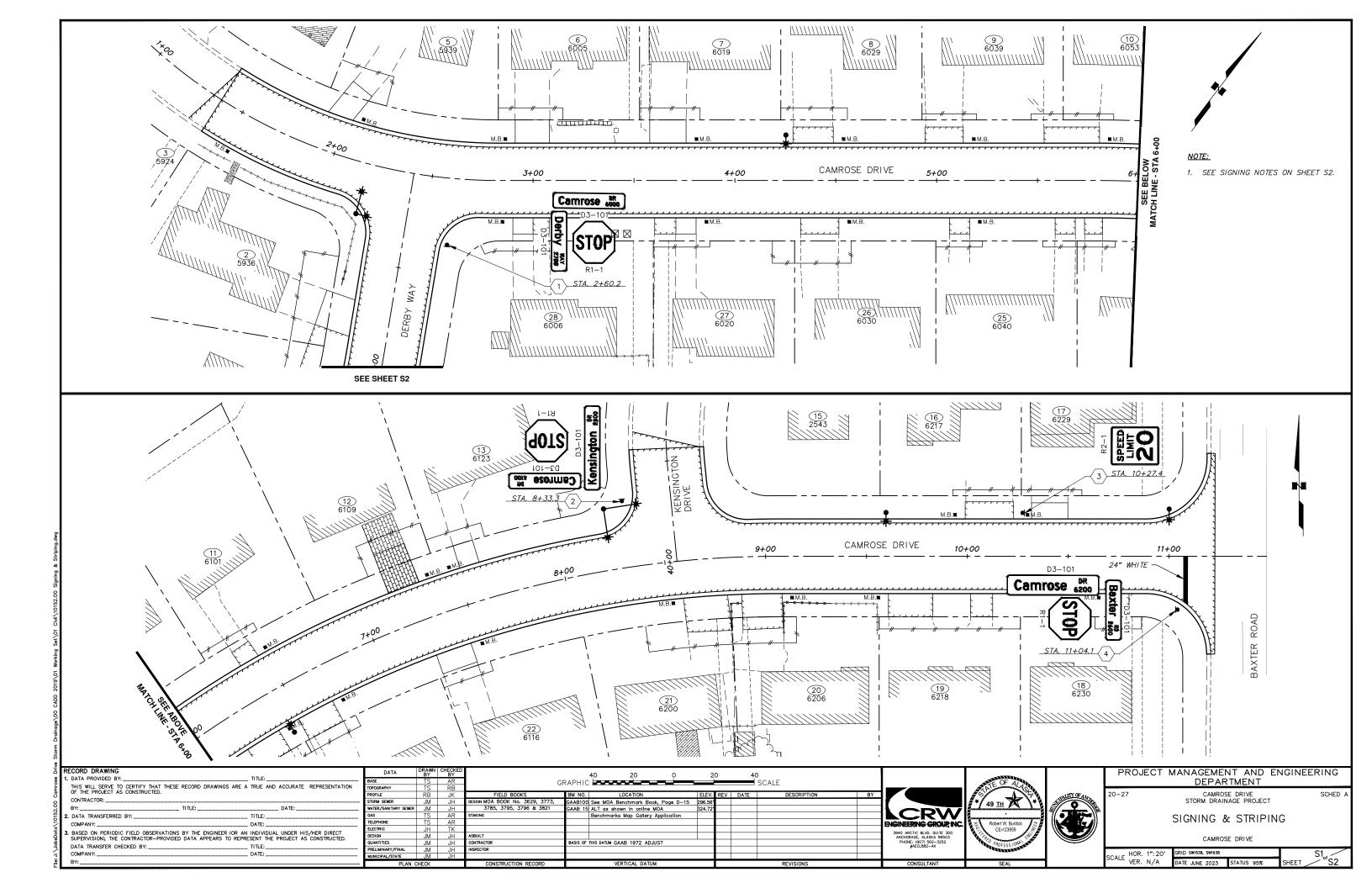
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT CAMROSE DRIVE STORM DRAINAGE PROJECT

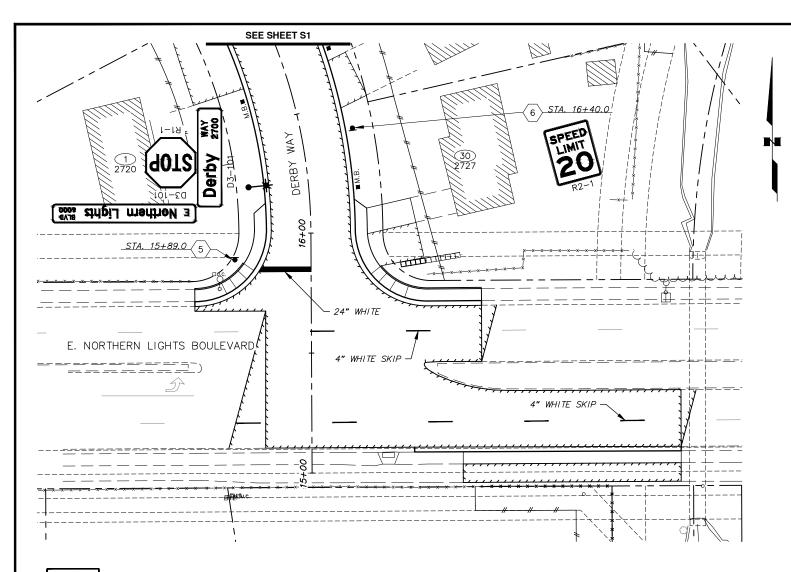
ROADWAY DETAILS

SCHED

CLEARING DETAILS

D5<sub>of</sub>D5 SCALE HOR. N/A VER. N/A DATE JUNE 2023 STATUS 95%





# 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. 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. 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 MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
- 2. UNLESS OTHERWISE NOTED, PROVIDE METHYL METHACRYLATE PAINT OF THE COLORS AND WIDTHS SPECIFIED FOR THE TRAFFIC MARKINGS INDICATED ON THE DRAWINGS. PROVIDE INLAID APPLICATION MARKINGS IN THE FOLLOWING MANNER:
  - 250 MILS FOR 4" WHITE SKIP MARKINGS ON E. NORTHERN LIGHTS BOULEVARD
- 125 MILS FOR 24" WHITE STOP BAR MARKINGS
- 3. SKIP LINE SPACING SHALL BE A 10' LONG STRIPE WITH A 30' SPACE.
- 4. OBLITERATE AND REPLACE ALL STRIPING DAMAGED BY CONTRACTORS OPERATIONS.
- 5. INSTALL 24" WIDE STOP BARS PER MASS STANDARD DETAILS 70-18 & 70-19.

70.11

RECORD DRAWING

STANDAF	RD SIGN											
SHEET	POST NO.	STATION	OFFCET	TYPE	LEGEND	WIDTH	HEIGHT	AREA	SIGN	SIGN	REMARKS	
NO.	P051 NO.	STATION	OFFSET	TTPE	LEGEND	(INCHES)	(INCHES)	(SF)	FACES	POST	REMARKS	
				D3-101	DERBY WAY 2700	30	8	1.67	NE/SW		ONE DOUBLE SIDED PANEL	
	1	2+60.2	33.0 RT	D3-101	CAMROSE DR 6000	36	8	2.00	NW/SE	2.5" PST	ONE DOUBLE SIDED PANEL	
				R1-1	STOP	30	30	6.25	SE			
				D3-101	KENSINGTON DR 2500	42	8	4.67	E/W		MOUNT TWO SIGNS BACK TO BACK	
S1	2	8+33.3	33.0 RT	D3-101	CAMROSE DR 6100	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL	
31				R1-1	STOP	30	30	6.25	N			
	3	10+27.4	21.5 LT	R2-1	SPEED LIMIT 20	24	30	5.00	E	2.5" PST		
				D3-101	CAMROSE DR 6200	54	12	9.00	N/S		MOUNT TWO SIGNS BACK TO BACK	
	4	11+04.1	26.4 RT	D3-101	BAXTER RD 2600	30	8	1.67	E/W	2.5" PST	ONE DOUBLE SIDED PANEL	
				R1-1	STOP	30	30	6.25	W			
				D3-101	DERBY WAY 2700	48	12	8.00	E/W		MOUNT TWO SIGNS BACK TO BACK	
S2	5	15+89.0	31.7 LT	D3-101	E NORTHERN LIGHTS BLVD 6000	60	8	6.67	N/S	2.5" PST	MOUNT TWO SIGNS BACK TO BACK	
32				R1-1	STOP	30	30	6.25	N			
	6	16+40.0	21.5 RT	R2-1	SPEED LIMIT 20	24	30	5.00	SE	2.5" PST		

	DATA DECLEDED DV		
٦.	DATA PROVIDED BY:		BASE
	THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE	A TRUE AND ACCURATE REPRESENTATION	TOPO
	OF THE PROJECT AS CONSTRUCTED.		PROF
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2.	DATA TRANSFERRED BY:		GAS
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J.	BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR ALL SUPERVISION). THE CONTRACTOR—PROVIDED DATA APPEARS TO REPE	PESENT THE PROJECT AS CONSTRUCTED	DESIG
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	COMPANY:	_ DATE:	MUNI
	RY:		

DATA	BY	BY			40 20	0	20	40	)	
SE	TS	AR	GF	RAPHIC			_		SCALE	
OGRAPHY	TS	RB	01	., .,						
FILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELE\	. REV	DATE	DESCRIPTION	
ORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page	D-15 296.5	31			
TER/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.7	2"			
5	TS	AR	STAKING		Benchmarks Map Gallery Applicat	tion				
EPHONE	TS	AR								
CTRIC	JH	TK								
SIGN	JM	JH	ASBUILT							
ANTITIES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST					
ELIMINARY/FINAL	JM	JH	INSPECTOR							
NICIPAL/STATE	JM	JH								
PLAN CHECK CONSTRUCTION RECORD					VERTICAL DATUM		$\mathbf{I}$		REVISIONS	







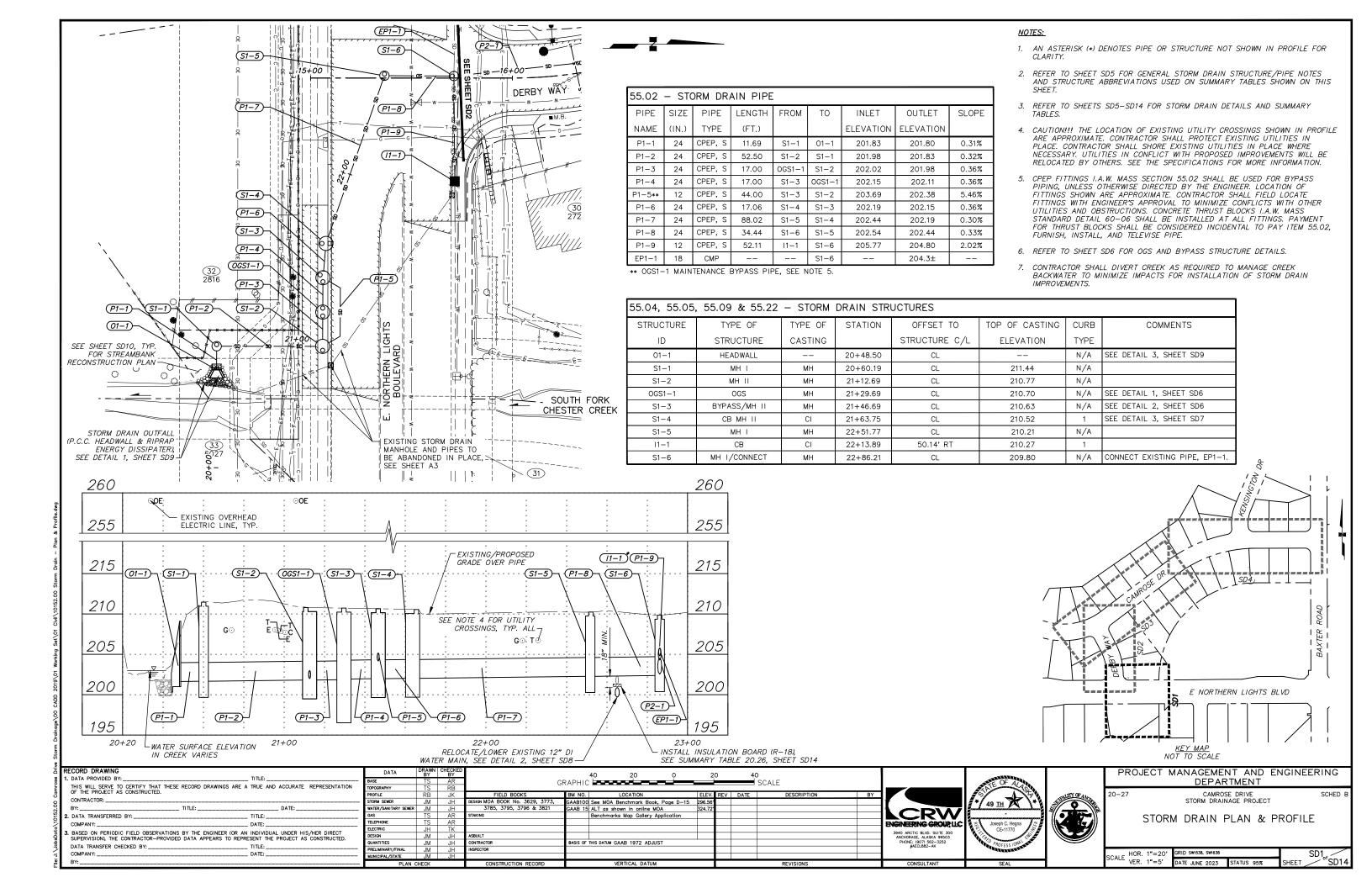
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT SCHED

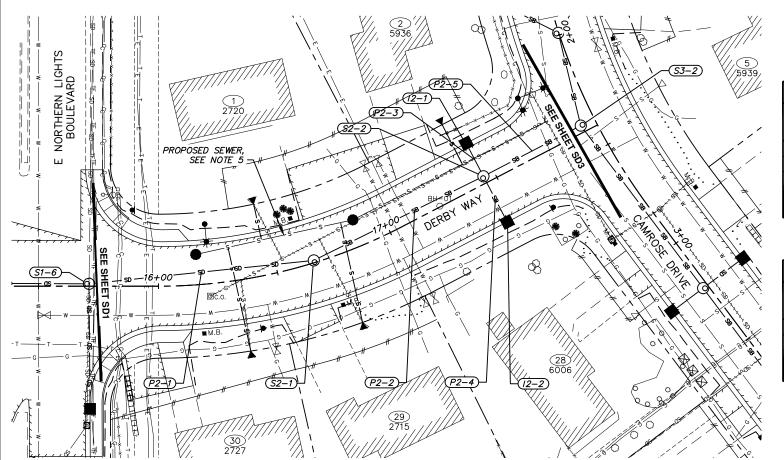
CAMROSE DRIVE STORM DRAINAGE PROJECT

SIGNING & STRIPING

E. NORTHERN LIGHTS BOULEVARD

SCALE HOR. 1":20' VER. N/A GRID SW1538, SW1638 DATE JUNE 2023 STATUS 95%



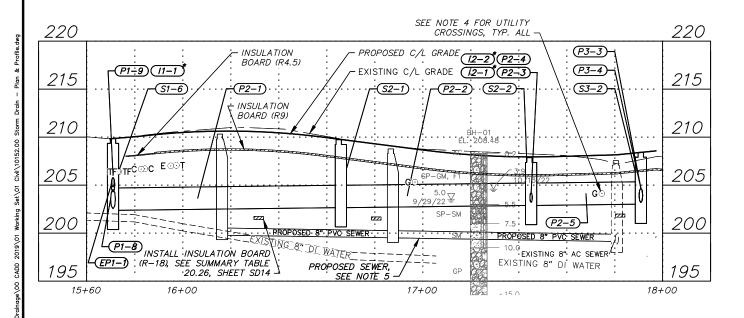


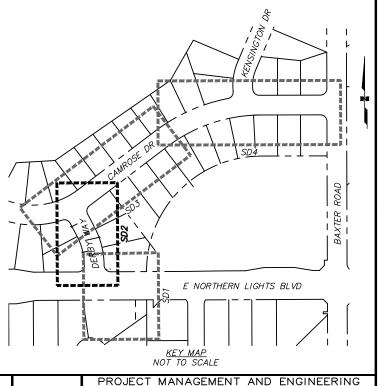


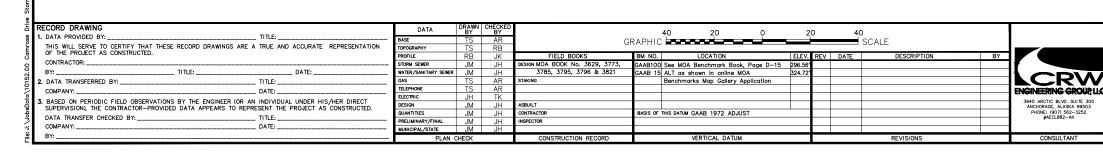
	55.02 & 55.03 - STORM DRAIN & SUBDRAIN PIPE											
ſ	PIPE	SIZE	PIPE	LENGTH	FROM	TO	INLET	OUTLET	SLOPE			
L	NAME	(IN.)	TYPE	(FT.)			ELEVATION	ELEVATION				
	P2-1	24	CPEP, S	94.17	S2-1	S1-6	202.82	202.54	0.31%			
	P2-2	24	CPEP, SP	78.89	S2-2	S2-1	203.05	202.82	0.31%			
	P2-3	12	CPEP, SP	15.53	12-1	S2-2	203.44	203.20	2.08%			
	P2-4	12	CPEP, SP	21.47	12-2	S2-2	203.57	203.22	2.00%			
	P2-5	24	CPEP, SP	45.73	S3-2	S2-2	203.18	203.05	0.31%			

- 1. AN ASTERISK (\*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
- 2. REFER TO SHEET SD5 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
- 3. REFER TO SHEETS SD5-SD14 FOR STORM DRAIN DETAILS AND SUMMARY TABLES.
- 4. CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT EXISTING UTILITIES IN PLACE. CONTRACTOR SHALL SHORE EXISTING UTILITIES IN PLACE WHERE NECESSARY. UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS WILL BE RELOCATED BY OTHERS. SEE THE SPECIFICATIONS FOR MORE INFORMATION.
- 5. SEE SHEETS SS1-SS3 FOR PROPOSED SEWER

55.05 & 55.0	55.05 & 55.09 - STORM DRAIN STRUCTURES										
STRUCTURE	TYPE OF	TYPE OF	STATION	OFFSET TO	TOP OF CASTING	CURB	COMMENTS				
ID	STRUCTURE	CASTING		STRUCTURE C/L	ELEVATION	TYPE					
S2-1	MH I	МН	16+65.96	0.97' LT	209.72	N/A					
S2-2	MH I	МН	17+45.22	2.97' LT	207.85	N/A					
12-1	СВ	CI	17+45.22	18.50' LT	207.69	2					
12-2	СВ	CI	17+45.22	18.50' RT	207.82	2					









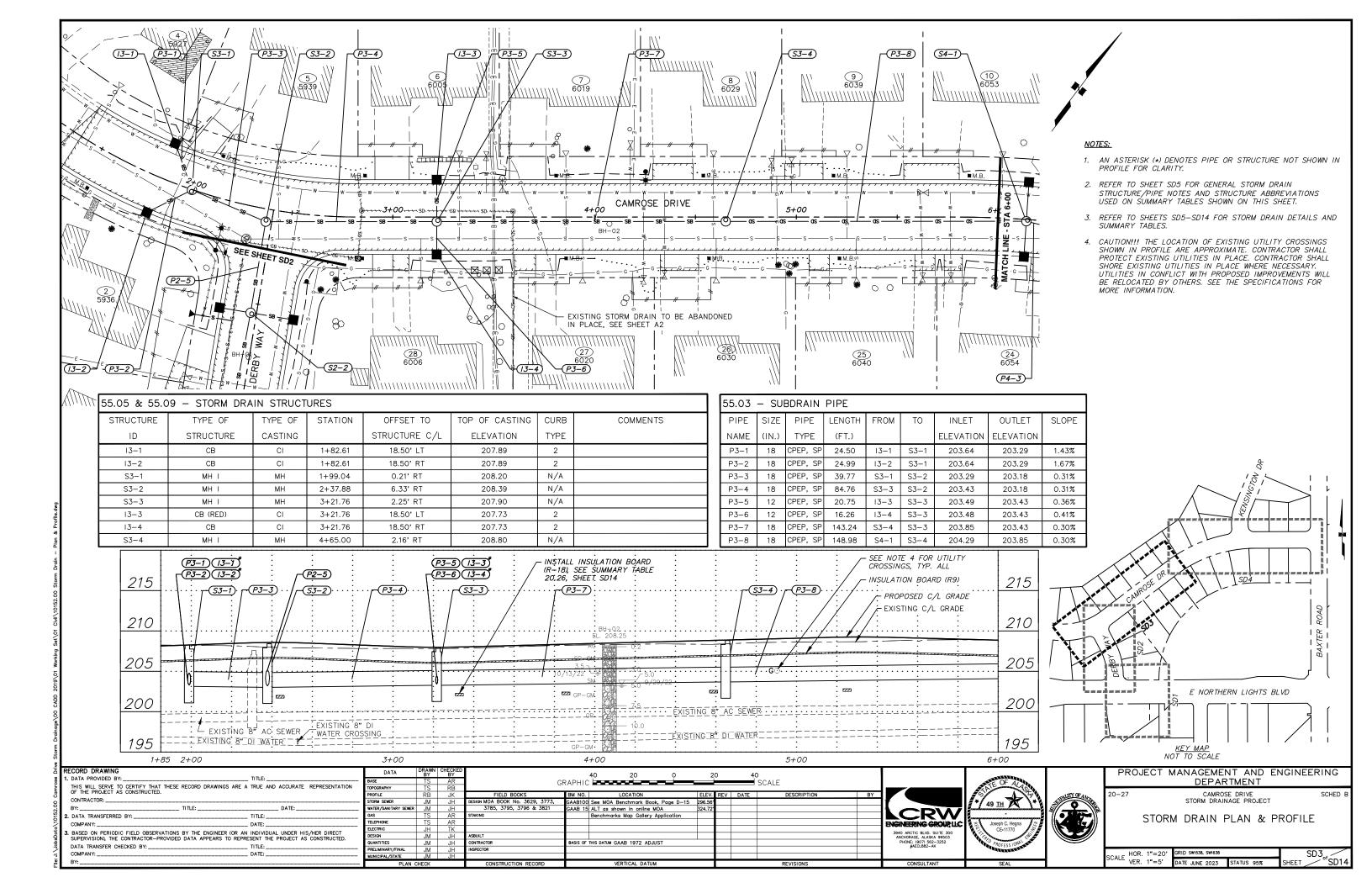


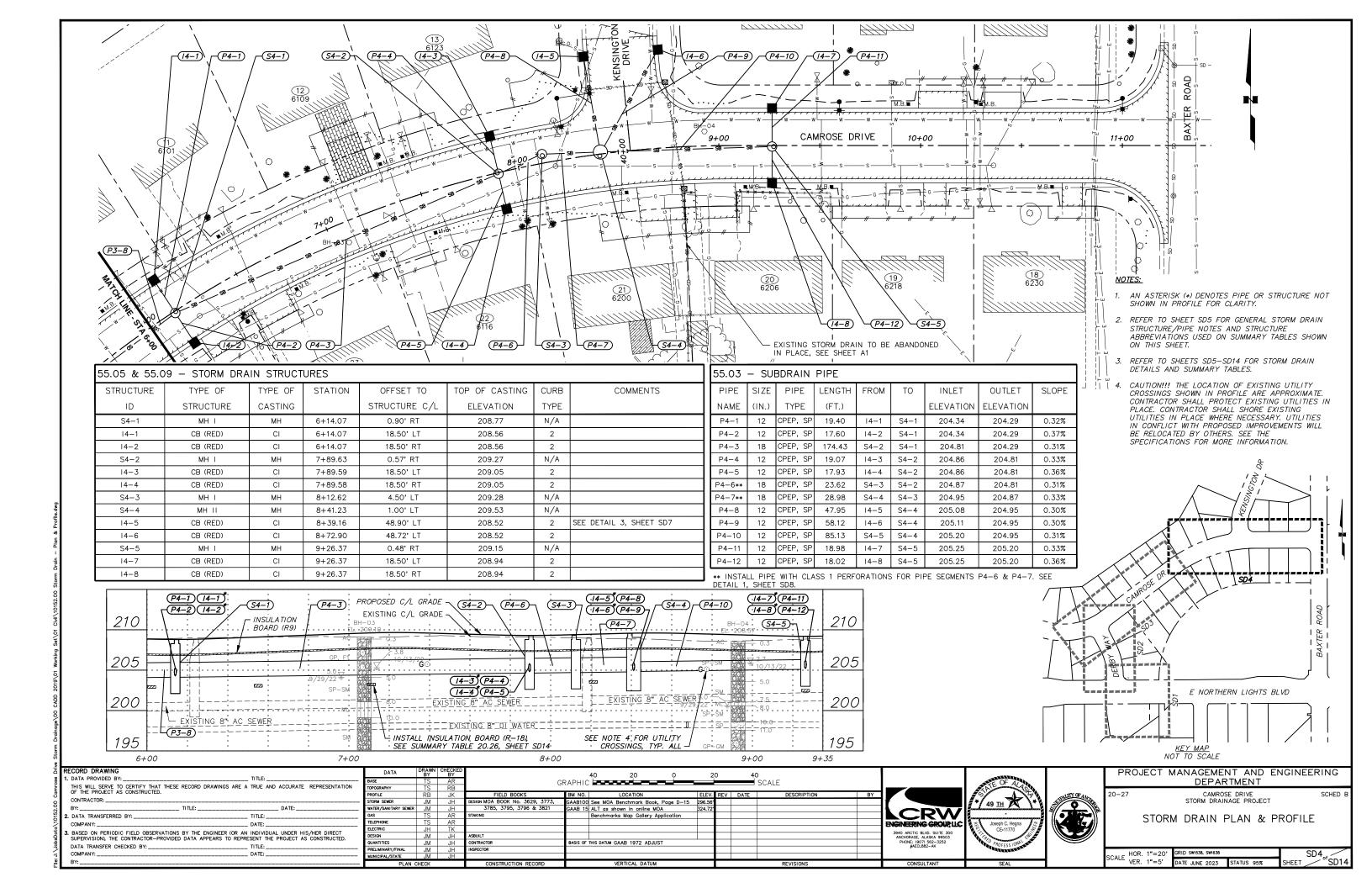
CAMROSE DRIVE STORM DRAINAGE PROJECT

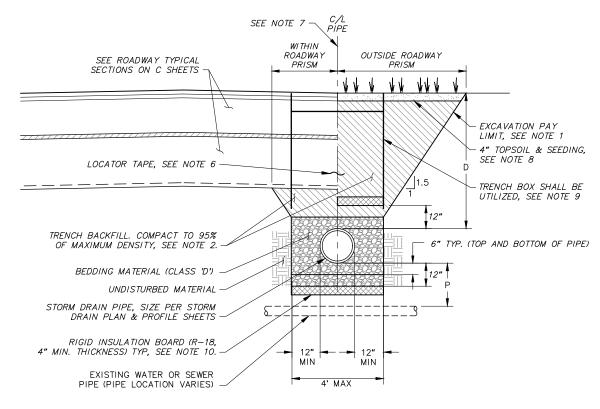
STORM DRAIN PLAN & PROFILE

SD2<sub>of</sub> SD14 SCALE HOR. 1"=20' GRID swis38, swi638

VER. 1"=5' DATE JUNE 2023 STATUS 95% GRID SW1538, SW1638



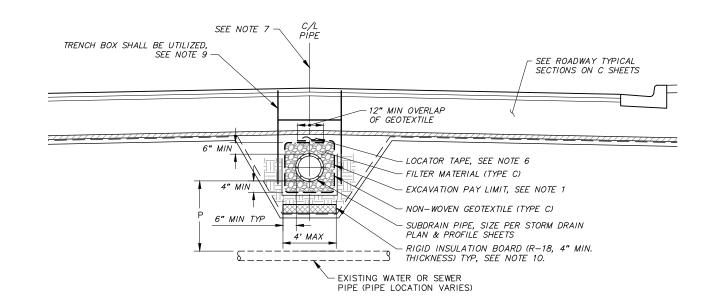






## STORM DRAIN & SUBDRAIN TRENCH SECTION NOTES:

- 1. TRENCH EXCAVATION AND SHORING SHALL COMPLY WITH ALL LOCAL, STATE, AND OSHA REGULATIONS AND REQUIREMENTS. INDICATED TRENCH WALL SLOPES AND DIMENSIONS ARE FOR PAY QUANTITY DETERMINATIONS ONLY.
- 2. TRENCH BACKFILL SHALL BE NATIVE MATERIAL MEETING TYPE III CLASSIFICATION (MINIMUM) AS APPROVED BY THE ENGINEER, NATIVE MATERIAL NOT MEETING TYPE III CLASSIFICATION SHALL BE REMOVED AND REPLACED WITH FURNISH TRENCH BACKFILL (TYPE II).
- 3. REMOVE AND DISPOSE OF ALL ORGANIC MATERIALS IN ACCORDANCE WITH MASS SECTION 20.13.
- 4. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN 12 INCHES ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN
- 5. WHERE WATER AND STORM DRAIN/SUBDRAIN MAINS CROSS, STORM DRAIN/SUBDRAIN MAIN JOINTS SHALL BE AT LEAST 10 FEET FROM WATER MAIN JOINTS.
- 6. INSTALL DETECTABLE LOCATOR TAPE AT LEAST 18 INCHES BUT NO MORE THAN 36 INCHES ABOVE THE CROWN OF THE PIPE.
- 7. LOCATION OF STORM DRAIN/SUBDRAIN VARIES WITHIN ROADWAY. INSTALL STORM DRAIN/SUBDRAIN AS SHOWN ON STORM DRAIN PLAN & PROFILE SHEETS.
- 8. PLACE 4" OF COMPACTED TOPSOIL AND SEEDING (SCHEDULE A) ON ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED.
- 9. TRENCH BOX SHALL BE UTILIZED TO MINIMIZE TRENCH WIDTH AND REDUCE IMPACTS TO ADJACENT PROPERTIES AND RE-VEGETATION. CONTRACTOR SHALL AVOID IMPACTS TO TREE PROTECTION ZONES.
- 10. INSTALL INSULATION BOARD (R-18) WHEN:
- 'D' IS LESS THAN 4' IN AREAS OUTSIDE OF THE INSULATED ROADWAY SECTIONS. INSULATION PLACEMENT SHALL CONFORM TO MASS DFTAIL 20-9
- 'P' IS LESS THAN 3', AS MEASURED FROM OUTSIDE OF PIPES & WITHIN BEDDING LIMITS, OR AS DIRECTED BY ENGINEER IN THE FIELD.
- 11. WATER LINES CROSSING STORM DRAIN LINES REQUIRE A MINIMUM INSULATED VERTICAL SEPARATION OF EIGHTEEN (18) INCHES. IF EIGHTEEN (18) INCHES CAN NOT BE OBTAINED, THE WATER LINE WILL HAVE TO BE RELOCATED.





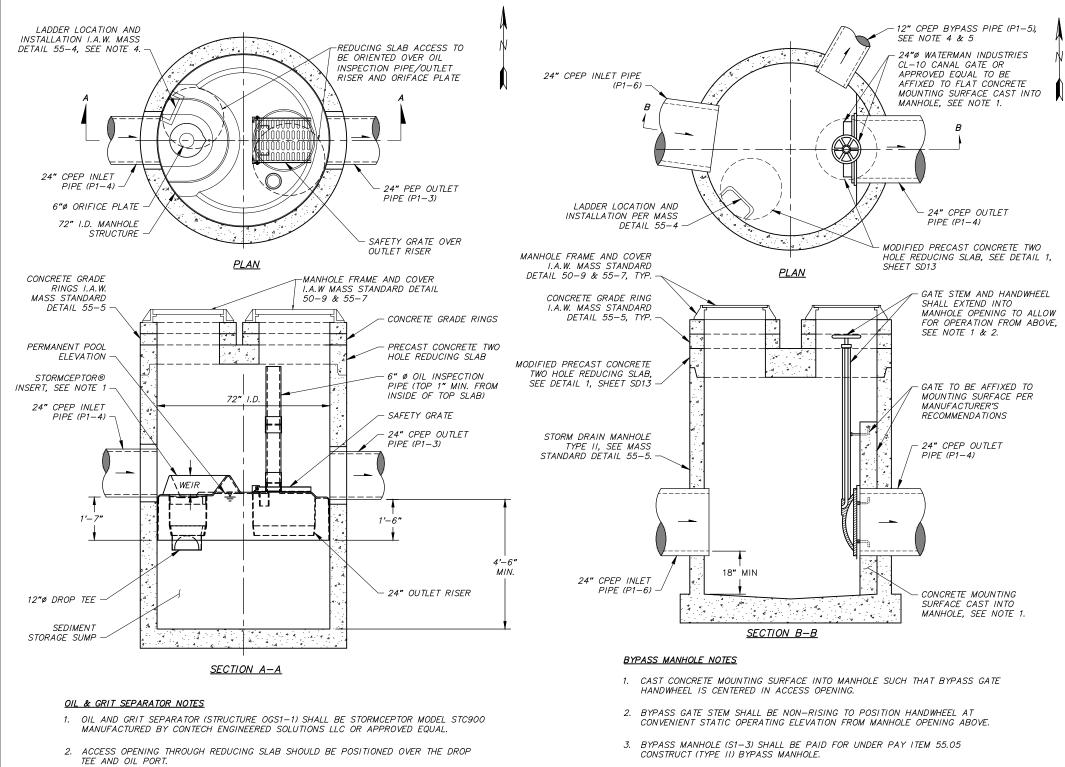
# GENERAL STORM DRAIN STRUCTURE & PIPE NOTES:

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

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

- 2. PIPE LENGTHS ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN THE CENTER OF CONNECTING STRUCTURES OR FITTINGS. PIPE SLOPES ARE CALCULATED USING THE ACTUAL LENGTH OF PIPE FROM THE INSIDE FACE OF STRUCTURES.
- 3. UNLESS OTHERWISE NOTED, ALL STORM DRAIN MAIN PIPE SHALL BE CPEP, TYPE S AND ALL SUBDRAIN PIPE SHALL BE CPEP. TYPE SP.
- 4. THE FOLLOWING ABBREVIATIONS USED ON THE STORM DRAIN STRUCTURE TABLES ON THE PLAN & PROFILES SHEETS ARE DESCRIBED BELOW:
  - CB CATCH BASIN
  - CB (RED) REDUCED HEIGHT CATCH BASIN
  - CB MH II CATCH BASIN MANHOLE, TYPE II
- MH I STORM DRAIN MANHOLE, TYPE I MH II STORM DRAIN MANHOLE, TYPE II
- OGS OIL AND GRIT SEPARATOR
- CONNECT CONNECT TO EXISTING STORM DRAIN MANHOLE AND/OR PIPE • BYPASS — BYPASS PIPE USED TO REROUTE FLOW AROUND OGS DURING MAINTENANCE • CI — CURB INLET
- MH MANHOLE FRAME AND LID

RECORD DRAWING	DATA	DRAWN CHECKEL								PROJECT	MANAGEMENT AND EN	IGINEERING
1. DATA PROVIDED BY:	BASE	TS AR	1					OF A			DEPARTMENT	
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.	TOPOGRAPHY	TS RB						ATEMAN				
5	PROFILE	RB JK	FIELD BOOKS	BM NO. LOCATION	ELEV. REV DATE DESCRIPTION	BY			DALTY OF ALL	20-27	CAMROSE DRIVE	SCHED B
CONTRACTOR:	STORM SEWER	JM JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100 See MOA Benchmark Book, Page D-15	296.56'			# / 49 TH X \*			STORM DRAINAGE PROJECT	
BY: DATE: TITLE: DATE:	WATER/SANITARY SEWER	JM JH	3785, 3795, 3796 & 3821	GAAB 15 ALT as shown in online MOA	324.72'			Janahananananinananananananananananananan				
2. DATA TRANSFERRED BY:	GAS	TS AR	STAKING	Benchmarks Map Gallery Application			INCRV	Ĭ	// <b>● ###</b> \\`		STORM DRAIN DETAIL	
COMPANY: DATE:	TELEPHONE	TS AR					ENGINEERING GROUP INC.	🙎 Joseph C. Hegna 😂			STORM DRAIN DETAIL	ر.
3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT	ELECTRIC	JH TK						© CE-11770 €	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			
SUPERVISION). THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED.	DESIGN	JM JH	ASBUILT				3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252	Charles and the same of the sa				
DATA TRANSFER CHECKED BY:	QUANTITIES	JM JH	CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST			PHONE: (907) 562-3252 #AECL882-AK	PROFESSIONA				
<i>y</i>	PRELIMINARY/FINAL	JM JH	INSPECTOR				PAECEOUZ-AN	A STREET, STRE		HOR. N/A	GRID SW1538, SW1638	CDE
COMPANY: DATE:	MUNICIPAL/STATE	JM JH									GIVID SHISSO, SHISSO	SD5 <sub>of</sub>
BY:	PLAN	CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS		CONSULTANT	SEAL		VER. N/A	DATE JUNE 2023 STATUS 95%	SHEET / "SD14



SEE STORM DRAIN PLAN & PROFILE SHEETS FOR INLET AND OUTLET PIPE INVERTS & ORIENTATION AND STRUCTURE INFORMATION.

OIL AND GRIT SEPARATOR (OGS1-1) DETAIL

SCALE: NTS

4. LADDER RUNGS NOT SHOWN IN SECTION VIEW FOR CLARITY.

- 4. BYPASS PIPE (P1-5) AND CATCH BASIN LEAD (P1-6) NOT SHOWN IN SECTION B-B FOR CLARITY.
- ADJUST LOCATION OF PIPE PENETRATION INTO MANHOLE FOR BYPASS PIPE (P1-5) AS REQUIRED TO AVOID CONFLICT WITH CONCRETE MOUNTING SURFACE.

# TYPE II CATCH BASIN MANHOLE NOTES

VARIES (SEE NOTE 4)

VARIES (SEE NOTE 4) -

MANHOLE FRAME AND COVER I.A.W. MASS

& 55-7, SEE NOTE 2.

STANDARD DETAIL 50-9

MANHOLE

HORIZONTAL REFERENCE

LOCATION AT CENTER OF

ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE 2015 MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS AS CURRENTLY AMENDED AND AS MODIFIED ON THIS DETAIL.

SECTION C-C

18" MIN

<u>PLAN</u>

- 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'.

# **BYPASS MANHOLE (S1-3) DETAIL** SCALE: NTS

#### TYPE II CATCH BASIN MAHOLE DETAIL 3 SCALE: NTS



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





PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

CAMROSE DRIVE STORM DRAINAGE PROJECT

SCHED

LIP OF P.C.C. CURB AND GUTTER

ROADWAY

CATCH BASIN INLET GRATE

REFERENCE ELEVATION TBC AT

HORIZONTAL REFERENCE LOCATION AT CENTER OF

PCC SIDEWALK OR PAVED

REFERENCE ELEVATION TBC AT

CATCH BASIN INLET, SEE MASS

PRECAST CONCRETE TWO HOLE REDUCING SLAB I.A.W. MASS STANDARD DETAIL 55-13.

STANDARD DETAILS 55-19,

55-20 & 55-21, NOTE 3

ROADWAY

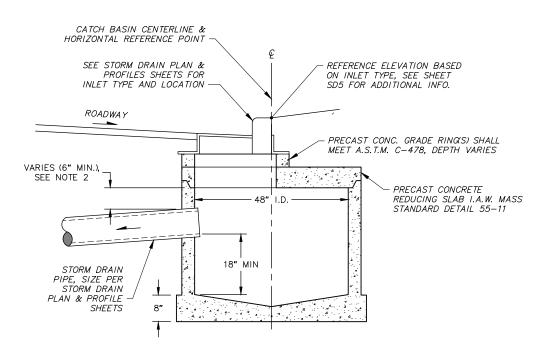
MIDPOINT OF CURB INLET HOOD

PATHWAY. SEE NOTE 2

MIDPOINT OF CURB INLET HOOD

STORM DRAIN DETAILS

SD6 HOR. N/A DATE JUNE 2023 STATUS 95%



REDUCED HEIGHT CATCH BASIN

SCALE: NTS

CATCH BASIN CENTERLINE & - LOW PROFILE FRAME, D&L FOUNDRY (A-2300-R4) OR APPROVED EQUAL AND HORIZONTAL REFERENCE POINT COVER I.A.W. MASS STANDARD DETAIL 55-7 PRECAST CONC. GRADE RING(S) SHALL MEET A.S.T.M. C-478, DEPTH VARIES PRECAST CONCRETE REDUCING SLAB I.A.W. MASS STANDARD DETAIL 55-11 VARIES (6" MIN.) SEE NOTE 2 STORM DRAIN PIPE, SIZE 18" MIN PER STORM DRAIN PLAN & PROFILE SHEETS

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.
- 2. BASE SECTION HEIGHT BETWEEN TOP OF PIPE AND REDUCING SLAB SHALL BE REDUCED AS NECESSARY TO FACILITATE THE CONSTRUCTION OF THE STORM DRAIN AS SHOWN ON THE PLAN AND PROFILE SHEETS.
- 3. REDUCED HEIGHT CATCH BASIN SHALL BE PAID FOR UNDER PAY ITEM 55.09, CONSTRUCT CATCH BASIN.
- 4. REDUCED HEIGHT MANHOLE AND CATCHBASIN MANHOLE SHALL BE PAID FOR UNDER PAY ITEM 55.05, CONSTRUCT (TYPE I) MANHOLE & CONSTRUCT (TYPE I) CATCH BASIN MANHOLE.

REDUCED HEIGHT (TYPE I) **MANHOLE** 

GEOTEXTILE (TYPE A)

2 SCALE: NTS PRECAST CONCRETE MANHOLE OR CATCH BASIN PER MASS FOUNDATION MATERIAL (E-CHIPS) COMPACTED TO 95% MAXIMUM DENSITY UNDER CENTER OF MH OR CB. SEE NOTE 1. 12" INSTALL RIGID BOARD INSULATION (R-20) WHEN 'D' IS LESS THAN 3' AND EXISTING WATER OR WITHIN 'W', WHERE 'W' IS SEWER PIPE THE WIDTH OF MANHOLE PER PLANS.

# FOUNDATION BACKFILL & STORM DRAIN STRUCTURE INSULATION NOTES

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

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

RECORD DRAWING TITLE: THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: \_\_ . DATA TRANSFERRED BY: TITLE: DATE: COMPANY: 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: \_\_ \_ DATE:

DATA GAAB100 See MOA Benchmark Book, Page D-15 296.5 AAB 15 ALT as shown in online MOA CONTRACTOR ASIS OF THIS DATUM GAAB 1972 ADJUST

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



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT 20-27

CAMROSE DRIVE STORM DRAINAGE PROJECT

STORM DRAIN DETAILS

GRID SW1538, SW1638 SCALE HOR. N/A SD7 DATE JUNE 2023 STATUS 95% °fSD14

UANTITIES

3

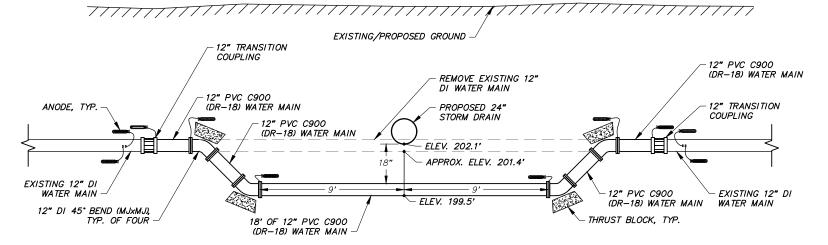
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#### **PERFORATION NOTES:**

- 1. PERFORATION PATTERN SHALL BE CLASS 1 PER AASHTO M294 FOR SELECT SUBDRAIN PIPES AS SPECIFIED ON STORM DRAIN PLAN AND PROFILE SHEETS.
- 2. THE ORIENTATION OF CLASS 1 PERFORATIONS SHALL BE LOCATED ABOVE SPRINGLINE OF THE PIPE AS SHOWN ON THIS DETAIL.

# **CLASS 1 PERFORATION PATTERN** & SUBDRAIN PIPE ORIENTATION

SCALE: NTS



	ANODE S	CHEDULE	
STATION	OFFSET	STATION	OFFSET

**RELOCATE WATER MAIN DETAIL** 

SCALE: NTS

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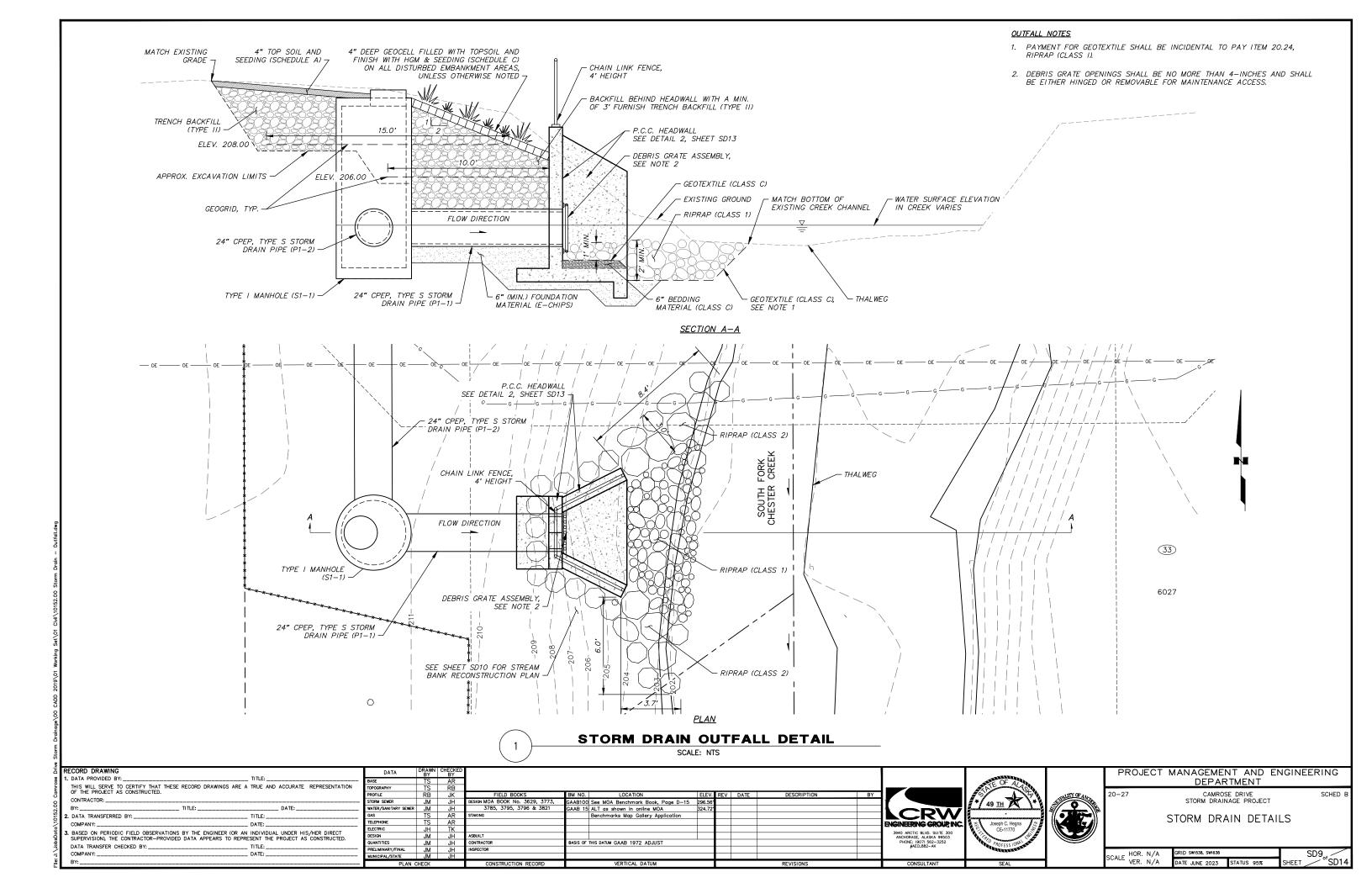


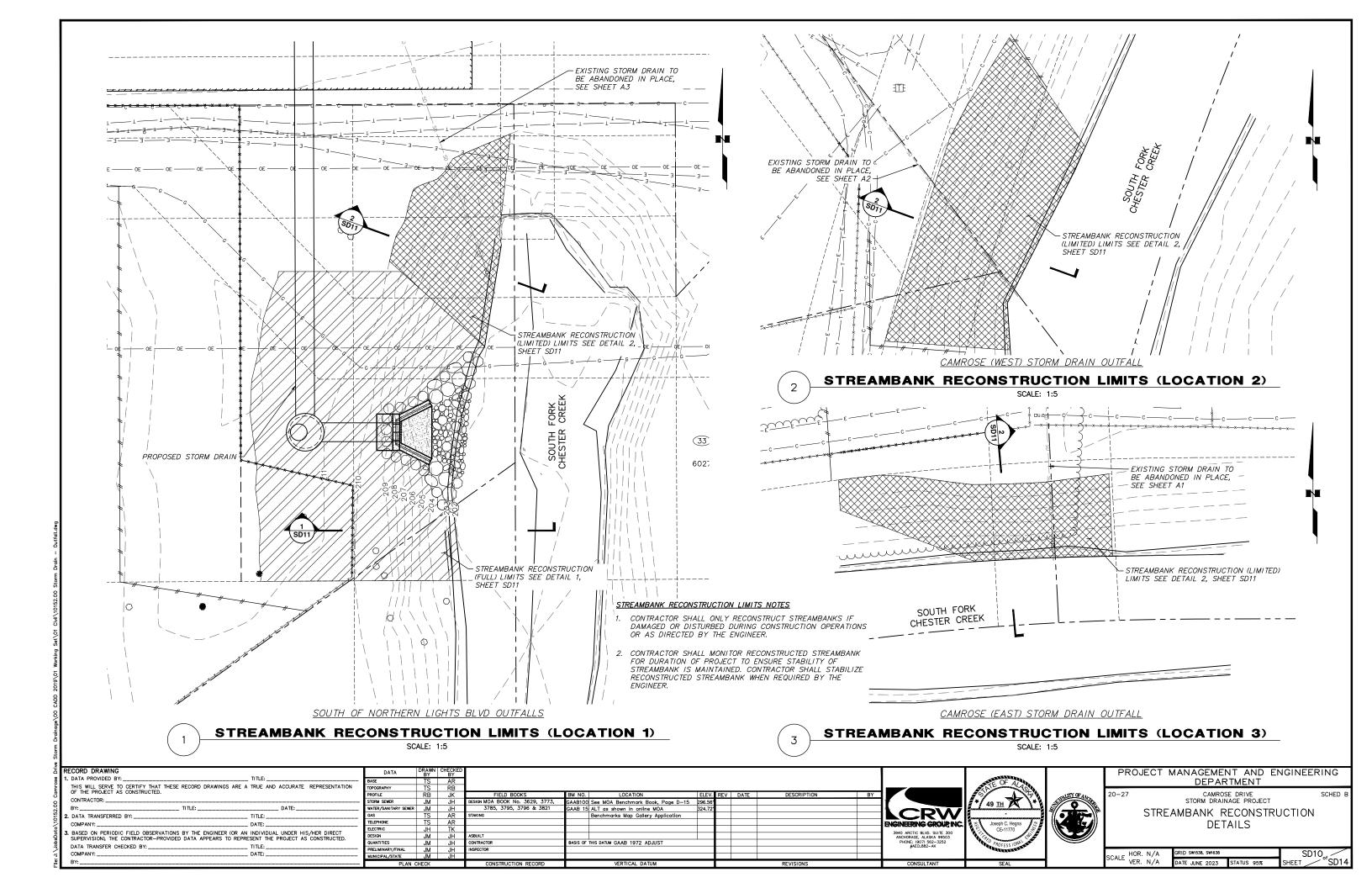
PROJECT MANAGEMENT AND ENGINEERING
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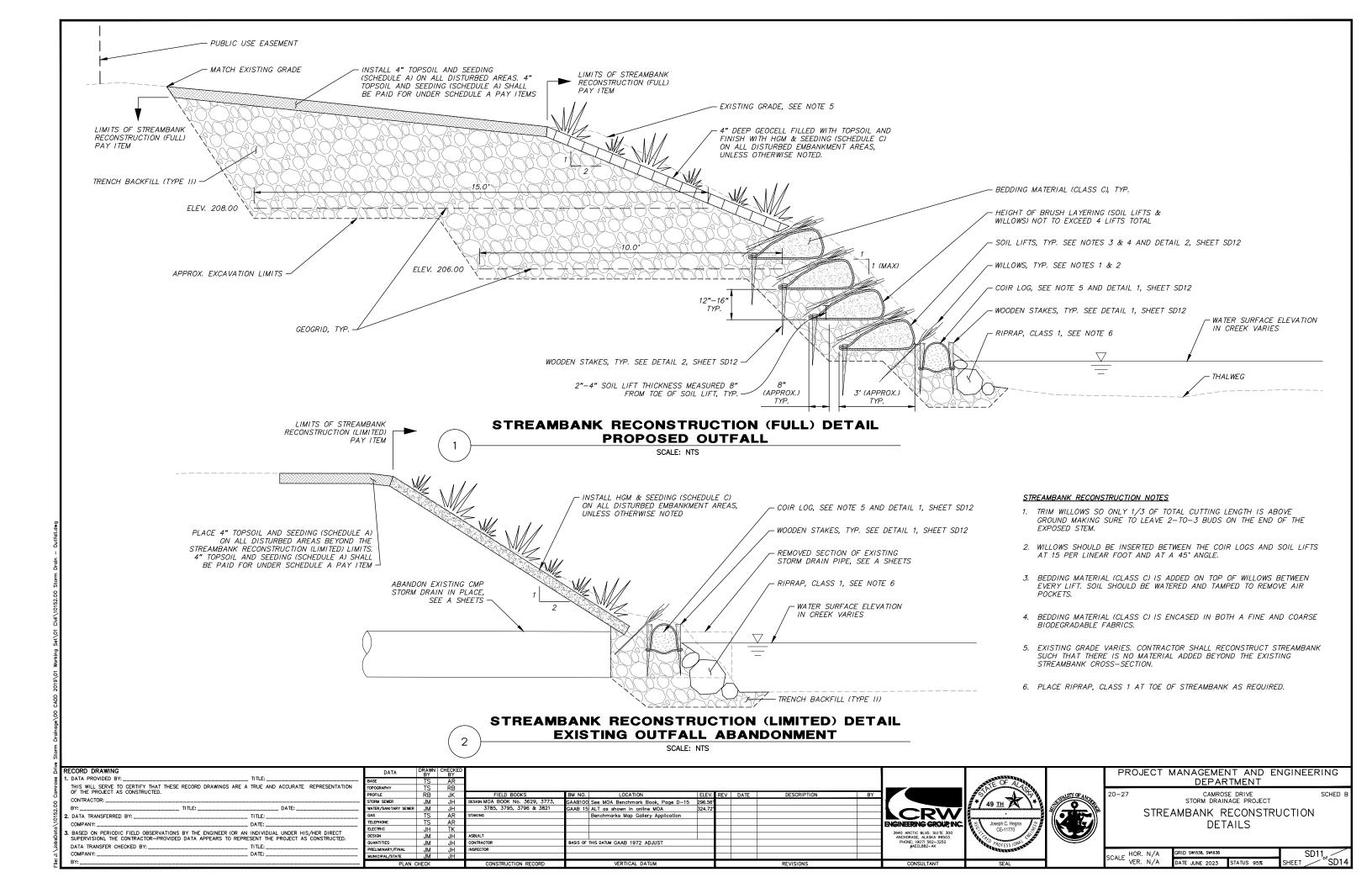
CAMROSE DRIVE STORM DRAINAGE PROJECT

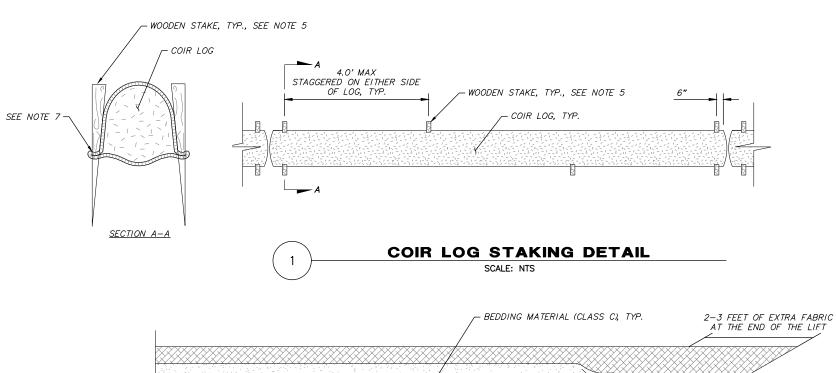
STORM DRAIN DETAILS

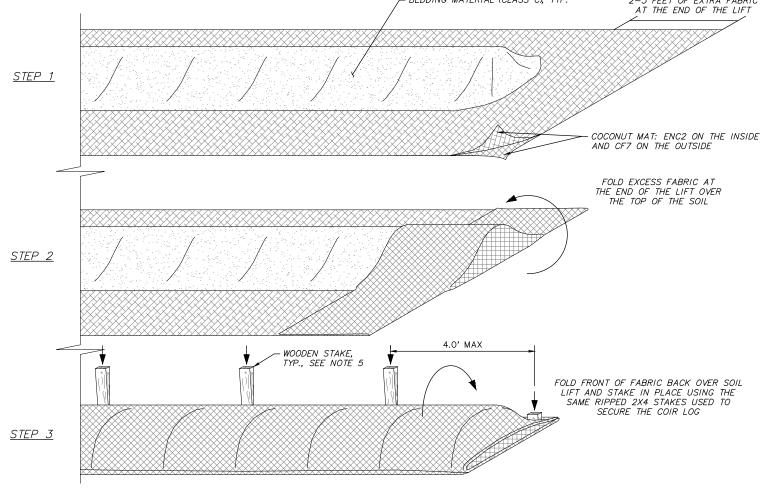
SD8<sub>of</sub>SD14 SCALE HOR. N/A GRID SW1538, SW1638 DATE JUNE 2023 STATUS 95%











# **SOIL LIFT FABRIC WRAP DETAILS** SCALE: NTS

RECORD DRAWING DATA TITLE: THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: \_\_ GAAB100 See MOA Benchmark Book, Page D-15 296.56 AAB 15 ALT as shown in online MOA 2. DATA TRANSFERRED BY: \_ TITLE: DATE: COMPANY: 5. 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. UANTITIES CONTRACTOR ASIS OF THIS DATUM GAAB 1972 ADJUST DATA TRANSFER CHECKED BY: \_\_ \_ DATE: \_

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

COIR LOG NOTES:

NOT EXCEED 4 FEET.

THE TOP OF THE LOG.

1. COIR LOG IS ENCASED IN BOTH A FINE AND COARSE BIODEGRADABLE

3. ENSURE LOGS ARE PLACED TIGHTLY END TO END.

9. FILL AND SHAPE BEHIND THE LOGS IF REQUIRED.

ROTATED UP THE BANK AND SECURED WITH STAKES.

2. PRIOR TO PLACING COIR LOG, EXCAVATE TRENCH 2/3 THE HEIGHT OF CHOIR LOG. ENSURE LOGS ARE NOT RECESSED MORE THAN ONE—THIRD THE LOG DIAMETER IN TO THE BANK.

4. WHERE PRACTICAL, THE EXTREME ENDS OF THE ROW OF LOGS SHOULD BE

6. SECURE THE LOGS BY DRIVING THE STAKES BETWEEN THE OUTER NETTING AND THE CORE MATERIAL EACH SIDE OF THE LOGS AND SECURED INTO THE GROUND, NOT THROUGH THE CENTER OF THE LOG.

7. A PAIR OF STAKES SHOULD BE PLACED 6 INCHES FROM THE ENDS OF THE COIR LOG. ENSURE THE SPACING OF STAKES (ONE ON EITHER SIDE) DOES

8. ONCE DRIVEN INTO THE GROUND, THE STAKES SHOULD SIT AT LEAST TWO—THIRDS BELOW THE GROUND AND ONE—THIRD ABOVE, AND FLUSH WITH

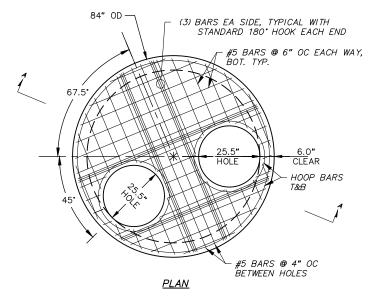
5. DIAGONALLY CUT 30"-36" LONG 2"X4" LUMBER TO CREATE STAKES.

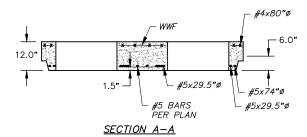
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT SCHED I

CAMROSE DRIVE STORM DRAINAGE PROJECT STREAMBANK RECONSTRUCTION DETAILS

SD12 of SD14 DATE JUNE 2023 STATUS 95%

SCALE HOR. N/A





# REDUCING SLAB NOTES

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

# MODIFIED PRECAST CONCRETE TWO HOLE REDUCING SLAB DETAIL

TO BE COMPLETED FOR FINAL DESIGN

P.C.C. STORM DRAIN HEADWALL

SCALE: NTS

RECORD DRAWING THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: \_\_ . DATA TRANSFERRED BY: \_ \_ TITLE: \_ DATE: COMPANY: . 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: \_\_ \_ DATE: \_

GAAB100 See MOA Benchmark Book, Page D-15 296.5 GAAB 15 ALT as shown in online MOA 324.7 ASIS OF THIS DATUM GAAB 1972 ADJUST







PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT CAMROSE DRIVE STORM DRAINAGE PROJECT SCHED E

STORM DRAIN DETAILS

SD13 of SD14 SCALE HOR. N/A VER. N/A GRID SW1538, SW1638 DATE JUNE 2023 STATUS 95%

NSULAT	ION BOARD (R-1	18) – PIPE CH	ROSSINGS &	STORM DRAI	N INSULATION		
	BEGIN	END					
SHEET	STATION	STATION	OFFSET	WIDTH (FT)	LENGTH (FT)	AREA (SF)	COMMENTS
SD1	22+65	-	CL	4	8	32	WATER CROSSING (NORTHERN LIGHTS BLVD)
SD2	16+32	-	4.99' LT	4	8	32	SEWER SERVICE (PARCEL 30)
	16+81	-	2.84' LT	4	8	32	SEWER SERVICE (PARCEL 29)
	17+45	-	11.46' LT	4	8	32	SEWER MAIN
	17+82	_	2.97' LT	4	8	32	SEWER MAIN
SD3	2+44	_	5.27' RT	4	8	32	SEWER SERVICE (PARCEL 5)
	3+22	_	10.75' RT	4	8	32	SEWER MAIN
	3+33	-	2.24' RT	4	8	32	SEWER SERVICE (PARCEL 6)
	3+86	_	2.21' RT	4	8	32	SEWER SERVICE (PARCEL 7)
	4+59	_	2.17' RT	4	8	32	SEWER SERVICE (PARCEL 8)
	5+25	_	2.13' RT	4	8	32	SEWER SERVICE (PARCEL 9)
	6+02	-	1.57' RT	4	8	32	SEWER SERVICE (PARCEL 10)
SD4	6+14	_	9.31' RT	4	8	32	SEWER MAIN
	6+55	_	6.29' RT	4	8	32	SEWER SERVICE (PARCEL 11)
	7+11	_	8.23' RT	4	8	32	SEWER SERVICE (PARCEL 12)
	7+90	_	8.09' RT	4	8	32	SEWER MAIN
	8+21	_	3.23' LT	4	8	32	SEWER MAIN
	8+39	-	48.90' LT	8	8	64	CATCH BASIN OVER SEWER MAIN, SEE DETAIL 3, SHEET SD7
	9+26	_	9.49' RT	4	8	32	SEWER MAIN

# INSULATION BOARD NOTES

1. INSULATION BOARD SHALL BE INSTALLED I.A.W. TYPICAL STORM DRAIN AND SUBDRAIN TRENCH SECTIONS (DETAIL 1 & 2, SHEET SD5) AND MASS DETAIL 20-9.

60.02

RAISE OF	RAISE OR LOWER WATER MAIN												
SHEET	APPX BEGIN STATION	SIZE (INCH)	TYPE	REMARKS									
SD1	22+65.11	12	DI	LOWER WATER MAIN I.A.W. DETAIL 2, SHEET SD8 & MASS DETAIL 60-02									

RECORD DRAWING

1. DATA PROVIDED BY:

THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION TO THE PROJECT AS CONSTRUCTED.

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BY:

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COMPANY:

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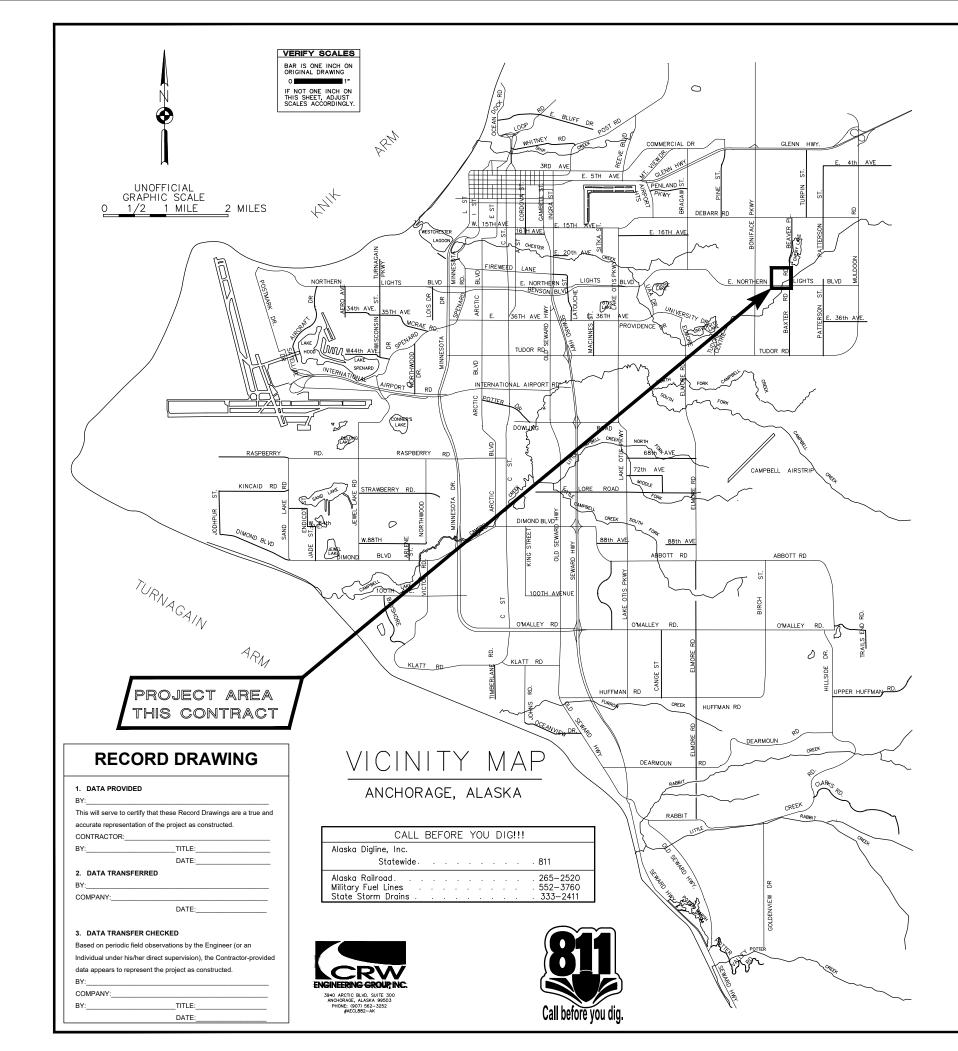


PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

)-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

STORM DRAIN SUMMARY TABLES

SCALE HOR. N/A VER. N/A DATE JUNE 2023 STATUS 95% SHEET SD14







MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

CAMROSE DRIVE

STORM DRAINAGE PROJECT

PROJECT IDENTIFICATION No. WM.00XXX

SCHEDULE C

JUNE 2023 95% SUBMITTAL

SHEET INDEX							
SHEET NO.	TITLE						
SS1 COVER SHEET							
SS2 KEY MAP, NOTES & SEWER DETAILS							
SS3 SEWER PLAN & PROFILE							
	SS1 SS2						

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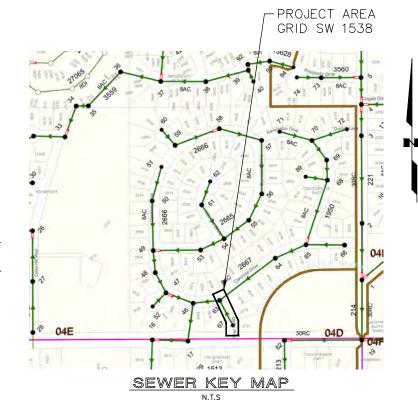
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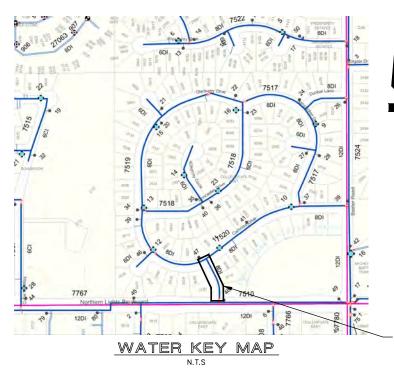
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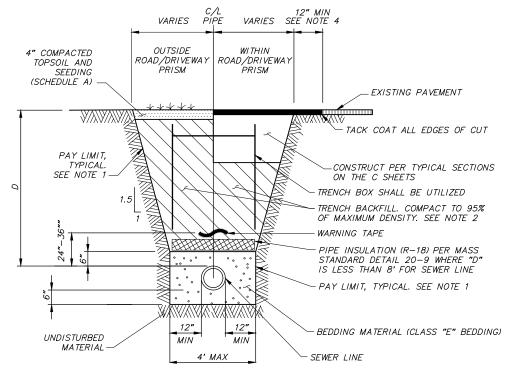
#### GENERAL NOTES

- ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE MOST CURRENT EDITION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS FOR STREETS-DRAINAGE-UTILITIES-PARKS (MASS). THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL (DCPM), AND THE SPECIAL PROVISIONS.
- "BOP" IS DEFINED AS THE OUTSIDE BOTTOM OF PIPE. "INV" IS DEFINED AS THE INSIDE BOTTOM OF PIPE.
- MAINTAIN A MINIMUM OF 10 FEET HORIZONTAL AND 36 INCHES VERTICAL SEPARATION BETWEEN WATER MAINS/SERVICES AND STORM SEWERS (STORM DRAIN OR FOOTING DRAIN). IF 36 INCHES VERTICAL SEPAŔATION CANNOT BE MAINTAINED, PROVIDE A MINIMUM OF 4 INCHES (R-18) RIGID INSULATION. MINIMUM VFRTICAL SEPARATION SHALL BE 18 INCHES.
- CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS.
- CONTRACTOR SHALL SUBMIT ALL FIELD SURVEY BOOKS (SURVEY LINE AND GRADE BOOKS) ALONG WITH THE
- CONTRACTOR SHALL RESTORE ALL PROPERTY DISTURBED BY CONTRACT ACTIVITIES, INCLUDING DRAINAGE SWALES. TO PRE-CONSTRUCTION CONDITIONS OR AS SHOWN ON THE PLANS.
- WATER RESULTING FROM CONTRACTOR'S DEWATERING EFFORT MAY NOT BE PUMPED OR OTHERWISE DIVERTED INTO EXISTING STORM DRAINS UNLESS PERMITS ARE OBTAINED BY THE CONTRACTOR, INCLUDING, BUT NOT LIMITED TO, THOSE REQUIRED BY THE MUNICIPALITY OF ANCHORAGE STORM WATER PLAN REVIEW OFFICE. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED TO DIVERT WATER FROM AN EXCAVATION ONTO ROADWAYS. CONTRACTOR SHALL PROVIDE A DISPOSAL SITE FOR EXCESS WATER AND SHALL BE RESPONSIBLE FOR SECURING ALL NECESSARY PERMITS AND APPROVALS. CONTRACTOR SHALL PROVIDE COPIES OF NECESSARY PERMITS AND APPROVALS TO THE MOA RIGHT OF WAY PERMIT OFFICE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR EROSION AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UNPERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM. THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
- ALL INSULATION PLACED ABOVE OR BETWEEN WATER/SEWER PIPES SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED POLYSTYRENE, MIN. 60 P.S.I. COMPRESSIVE STRENGTH, FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-18 PER FOUR (4) INCH THICK INSULATION.
- HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.

- ALL GRAVITY SEWER PIPING SHALL BE SHALL BE PVC C900 (DR-18).
- STATIONING IS PIPE CENTERLINE STATIONING AS INDICATED ON THE DRAWINGS.
- ALL GRAVITY SEWER MAINS SHALL HAVE A MINIMUM OF 8 FEET OF BURY AT ALL POINTS, UNLESS OTHERWISE SHOWN ON THE DRAWINGS. AT LOCATIONS WHERE THERE IS LESS THAN 8 FEET OF BURY, 4 INCHES (R-18) OF RIGID BOARD INSULATION SHALL BE INSTALLED.
- ALL MANHOLES SHALL BE SANITARY MANHOLES, IN ACCORDANCE WITH MASS.
- ALL MANHOLES SHALL HAVE A MINIMUM OF ONE 6-INCH GRADE RING. MAXIMUM GRADE RING ADJUSTMENTS SHALL NOT EXCEED 18-INCHES.
- PIPE BEDDING FOR PVC PIPE SHALL BE BEDDING MATERIAL (CLASS E) PER THE SPECIAL PROVISIONS.
- SEWER MAIN TRENCHES AND BEDDING SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY.
- PIPE LENGTHS FOR GRAVITY SEWER ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN THE CENTER OF MANHOLES. PIPE SLOPES ARE CALCULATED USING THE ACTUAL LENGTH OF PIPE FROM INSIDE FACE OF
- A MANHOLE SAFETY POST SHALL BE FURNISHED AND INSTALLED FOR ALL NEW AND REHABILITATED
  MANHOLES. A LADDER-UP SAFETY POST (MODEL LU-3) MANUFACTURED BY BILCO OR APPROVED EQUAL SHALL BE SECURED TO LADDER RUNGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.
- EXISTING CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS IN ADVANCE OF SANITARY SEWER SERVICE INTERRUPTION FOR CONNECTION TO TEMPORARY BYPASS SYSTEMS. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE TEMPORARY SANITARY SEWER SERVICE TO THE EXISTING CUSTOMERS. TEMPORARY SEWER SERVICE PLAN MUST BE REVIEWED AND APPROVED BY ENGINEER PRIOR TO CONSTRUCTION. CONTRACTOR SHALL SUBMIT A PLAN AND PROVIDE FOR CONTINUOUS BYPASS OF SEWER FLOWS FROM MAINS AND SERVICES AFFECTED BY CONSTRUCTION IN ACCORDANCE WITH MASS SECTION 50.05, SANITARY SEWER
- CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL ASBESTOS CEMENT PIPE IN ACCORDANCE WITH THE
- WHERE WATER AND SEWER MAINS CROSS, SEWER MAIN JOINTS SHALL BE INSTALLED AT LEAST 9 FEET FROM EXISTING WATER MAIN JOINTS.
- CONNECTIONS FROM EXISTING SEWER SERVICES TO PROPOSED SEWER SERVICES SHALL BE ACCOMPLISHED BY UTILIZING A STAINLESS STEEL ROMAC STYLE LSS1 REPAIR CLAMP THAT IS A MINIMUM OF 8" IN WIDTH AND HAS A MINIMUM OF TWO STAINLESS STEEL BOLTS OR APPROVED EQUAL. THE ROMAC STYLE LSS1 REPAIR CLAMPS MAY NEED BUSHINGS IF THE PIPE DIAMETERS ARE DIFFERENT







## 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. A TRENCH BOX SHALL BE UTILIZED TO MINIMIZE EXCAVATION LIMITS.
- 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
- 4. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO PAVING, CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12 INCHES FROM EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN A 12 INCH ADDITIONAL CUT IF THE EXISTING PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS, IF THE JOINT DOES NOT OCCUR ON UNDISTURBED MATERIAL, OR IF THE JOINT IS LOCATED WITHIN THE TRAVEL LANE

# TYPICAL SEWER UTILITY TRENCH SECTION

PROJECT AREA GRID SW 1538

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# ECORD DRAWING Note: To be filled out on original drawings upon project completio

his will serve to certify that these Record rawings are a true and accurate epresentation of the project as constructed. ONTRACTOR: \_ ATE:

ATA 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

DATA TRANSFER CHECKED BY: COMPANY: \_\_

## REUSE OF DOCUMENTS

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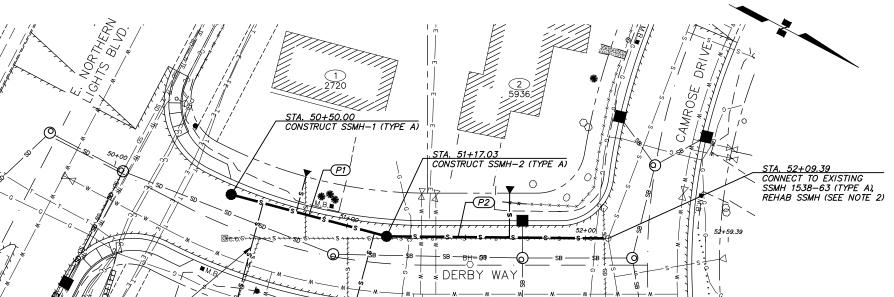
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

> CAMROSE DRIVE STORM DRAINAGE PROJECT

KEY MAP, NOTES & SEWER DETAILS

SHEET PROJ. ID.: WM.OOXXX

SS2



#### <u>NOTES</u>

- CONTRACTOR SHALL FIELD VERIFY VERTICAL ALIGNMENT OF PROPOSED SANITARY SEWER SERVICE AND CONNECTION TO EXISTING SERVICE AT PROPERTY LINE TO AVOID CONFLICT WITH PROPOSED STORM DRAIN PIPE. PROPOSED SANITARY SEWER SERVICES SHALL BE ROUTED BELOW PROPOSED STORM DRAIN TO AVOID CONFLICT. FITTINGS REQUIRED TO MAKE CONNECTION REQUIRE ENGINEER'S APPROVAL.
- 2. REHABILITATE EXISTING SSMH 1538-63 AS FOLLOWS:
   REMOVE AND DISPOSE OF THE EXISTING COVER AND FRAME, GRADE
  - RINGS, AND LADDER RUNGS.

     FURNISH AND INSTALL SANITARY SEWER MANHOLE FRAME, COVER, AND GRADE RINGS I.A.W. MASS STANDARD DETAIL 50-1. ADJUST MANHOLE FRAME PER MASS STANDARD DETAIL 50-5.
  - FURNISH AND INSTALL SANITARY SEWER MANHOLE LADDER RUNGS I.A.W. MASS STANDARD DETAILS 50-1 AND 50-6.
  - SET AND SEAL ALL NEW COMPONENTS WITH PLASTIC GASKET JOINT SEALER, RAM-NEK OR EQUAL.
  - SELLEN, NAM-NICE ON EQUAL.

    ALL NEW MANHOLE JOINTS AND EXISTING JOINT BETWEEN BARREL

    SECTION AND CONE SHALL BE SEALED WITH WRAPIDSEAL OR EQUAL

    EXTERNAL JOINT SEALANT. THIS WORK SHALL BE INCIDENTAL TO
  - PAY ITEM 50.06 REMOVE AND REPLACE GRADE RINGS.

     WRAP EXTERIOR OF NEW MANHOLE COMPONENTS WITH THREE LAYERS OF 8-MIL POLYETHYLENE ENCASEMENT. THIS WORK SHALL BE INCIDENTAL TO PAY ITEM 50.06 - REMOVE AND REPLACE GRADE RINGS.

SEWER STRUCTURE DATA							
STRUCTURE ID	STATION	NORTHING	EASTING				
EXISTING SSMH 1538-63	52+09.39	332500.92	369011.44				
SSMH-1 (TYPE A)	50+50.00	332353.42	369068.45				
SSMH-2 (TYPE A)	51+17.03	332418.81	369053.72				

SEWER MAIN PIPE DATA									
PIPE ID	SIZE (IN)	TYPE	LENGTH (FT)	BEARING	SLOPE				
P1	8	PVC C900 (DR-18)	67.03	N12° 41′ 49″W	0.41%				
P2	8	PVC C900 (DR-18)	92.36	N27° 14′ 38″W	0.41%				

SEWER SERVICE CONNECT CHART									
PARCEL	LEGAL DESCRIPTION	SEWER LINE STA. AT MAIN	SIZE	MATERIAL TYPE	DIST. FROM MAIN TO PROPERTY LINE*	OFFSET FROM ADJ. PROPERTY LINE**	DEPTH AT MAIN	DEPTH AT PROPERTY LINE**	
1	COLLEGEGATE EAST #3 BLOCK 7 LOT 1	50+78.20	4"	PVC C900 (DR-18)	15.3'		9.5'		
2	COLLEGEGATE EAST #3 BLOCK 7 LOT 2	51+68.18	4"	PVC C900 (DR-18)	18.5'		7.6'		
29	COLLEGEGATE EAST #3 BLK 10 LT 12	51+11.79	4"	PVC C900 (DR-18)	42.6'		8.7'		
30	COLLEGEGATE EAST #3 BLOCK 10 LOT 13	50+63.74	4"	PVC C900 (DR-18)	44.3'		9.7'		

- \* REPLACE PARCEL 1, 2, 29, AND 30 SEWER SERVICES FROM SEWER MAIN TO PROPERTY LINE
- \*\* TO BE COMPLETED AS PART OF RECORD DRAWING

San											
0152.00	VERIF SCAL	•		BAR REPRESEN NCH ON ORIG ING.		0″∎			1" INCH, ADJUST DRAWING H	ULL SIZE SCALE ORZ SCALE: 1"=20' ERT SCALE: 1"=5'	RECORD DRAWI  1. DATA PROVIDED BY:
7	DATA		CHECKED	DATA	DRAWN	CHECKED	REV	DATE	DESCRIPTION	BY	This will serve to certify t
Dat	BASE	TS	AR	TELEPHONE	TS	AR					Drawings are a true and representation of the proj
sqo	TOPOGRAPHY	TS	RB	ELECTRIC	TS	AR					CONTRACTOR:
2	PROFILE	RB	JK	CABLE TV	TS	AR					BY:TI
-5	SANITARY SEWER	JM	JH	TRAFFIC SIGNAL	TS	AR					DATE:
==	STORM SEWER	JM	JH	DESIGN	JM	JH					
D	WATER	JM	JH	QUANTITIES	JM	JH					2. DATA TRANSFERRED BY:
Ŋ.	GAS	TS	AR	MUN. FINAL CHECK	JM	JH					COMPANY:
<<			DI ANI	CHECK	•	•			DEVISIONS	· · · · · · · · · · · · · · · · · · ·	DATF:

F&I SANITARY SEWER SERVICE CONNECTION (4-INCH), TYP. (4 TOTAL) AND CONNECT TO EXISTING SERVICE,

AT PROPERTY LINE, SEE NOTE 1

220

*215* 

*210* 

*205* 

200

<u> 195</u>

190

50+00

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

This will serve to certify that these Record Drawings are a true and accurate representation of the project as constructed.

29 2715

51+17. TRUCT 208.74 IV 8" P

STA. 51 CONSTR RIM=2C S. INV N. INV

ING WATER

PROPOSED

STORM DRAIN

-(P1)

F&I 67.03 LF 8" PVC

C900 (DR-18)

S=0.41%

DATE: -

EXISTING WATER

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: \_\_

-(P2)

EXISTING WATER

F&I 92.35 LF 8" PVC C900 (DR-18)

DATE:

S=0.41%

PROPOSED GRADE

EXISTING GRADE

OVER PIPE

OVER PIPE

5

\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$

SSN R R R R R R R R R R

₹8

REUSE OF DOCUMENTS

190

52+50

220

215

210

205

200

195

THIS DOCUMENT AND THE IDEAS INCORPORATED HEREIN AS AN INSTRUMENT OF PROFESSIONAL SERVICE, IS THE PROPERTY OF AWWU AND IS NOT TO BE USED, IN WHOLE OR IN PART, FOR ANY OTHER PROJECT WITHOUT WRITTEN AUTHORIZATION OF







MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY

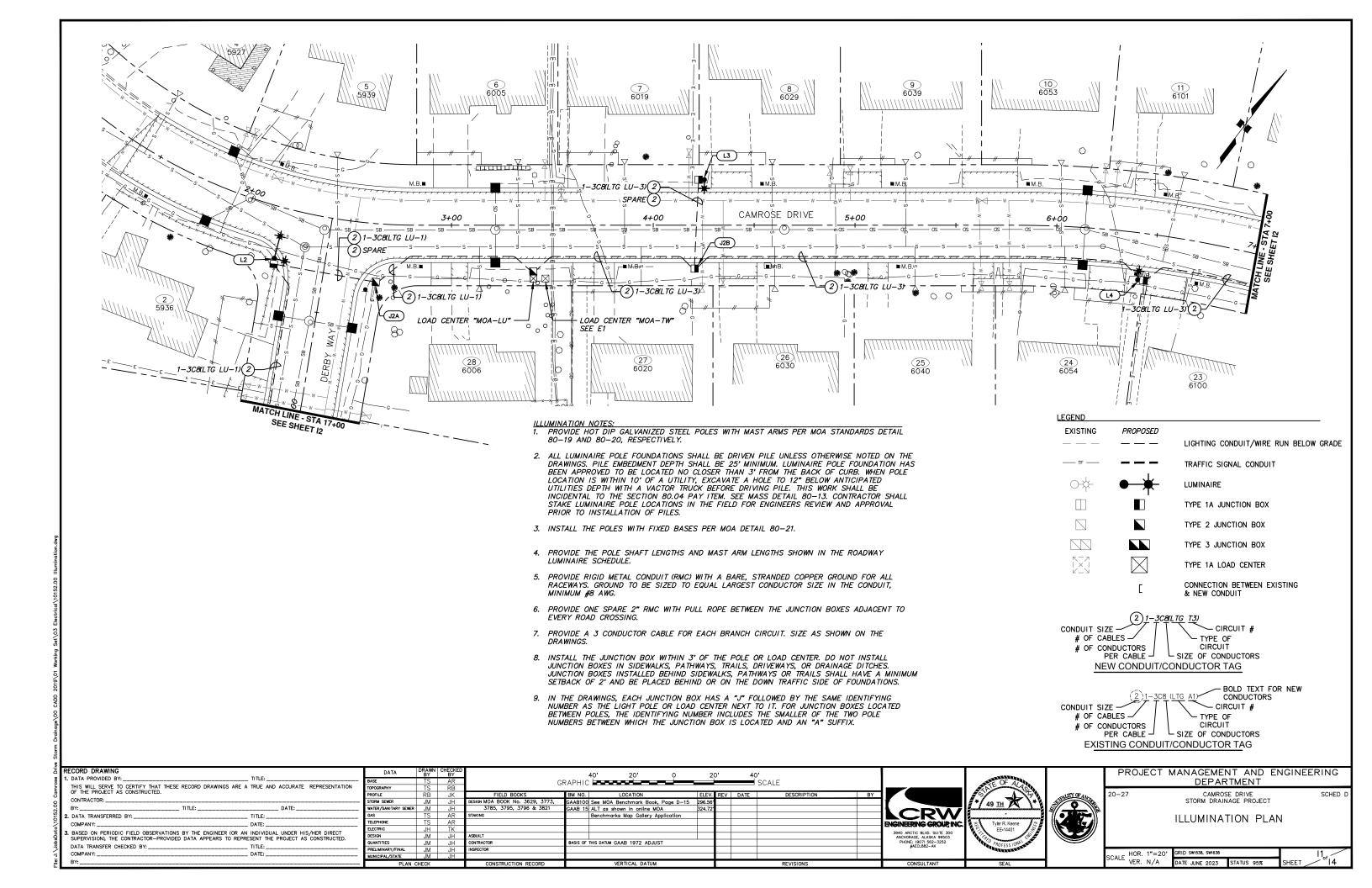
> CAMROSE DRIVE STORM DRAINAGE PROJECT

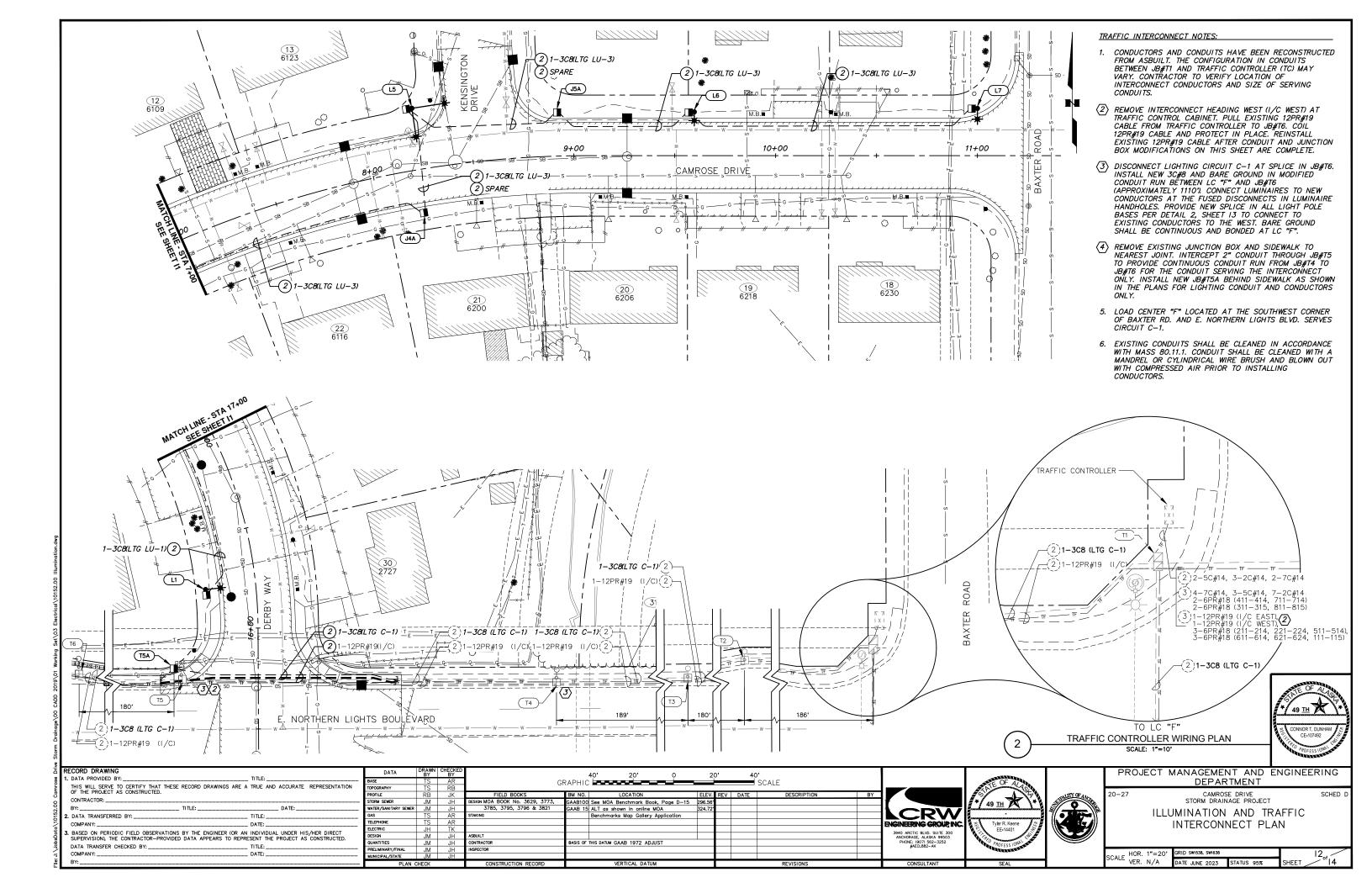
**SEWER PLAN & PROFILE** 

DATE: JUNE 2023 GRID: SW1538

PROJ. ID.: WM.OOXXX

SS3 SHEET





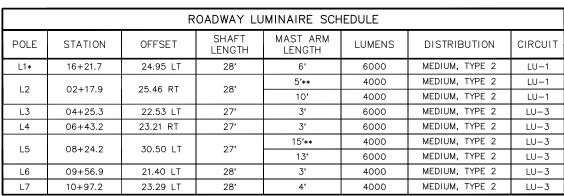
LIGHT LEVELS TABLE										
LOCATION	MOA REQUIRED MIN. AVERAGE ILLUMINANCE (FC)	AVERAGE DESIGN ILLUMINANCE (FC)	MOA REQUIRED MAXIMUM UNIFORMITY RATIO	DESIGN UNIFORMITY RATIO	MOA REQUIRED MAX. VEILING LUMINANCE RATIO	DESIGN VEILING LUMINANCE RATIO				
CAMROSE DRIVE	0.4	0.4	6.0:1	4.3:1	0.4:1	0.3:1				
DERBY WAY	0.4	0.5	6.0:1	2.7:1	0.4:1	-				
CAMROSE DRIVE/ DERBY WAY INTX	0.8	0.8	6.0:1	3.8:1	=	-				
CAMROSE DRIVE/KENSINGTON DRIVE INTX	0.8	0.9	6.0:1	2.9:1	_	_				

	TR	AFFIC JUNC	TION BOX	AND BASE SCHEDULE
LABEL	TYPE	STATION	OFFSET	REMARKS
TC	BASE	SEE SH	IEET 12	TRAFFIC CONTROLLER
T1	3	SEE SH	IEET 12	EXISTING
T2	1A	SEE SH	IEET 12	EXISTING
Т3	1A	SEE SH	IEET 12	EXISTING
T4	1A	15+72	147.8 R	EXISTING
T5	1A	15+75	37.6 L	REMOVE. INTERCEPT EXISTING ELBOWS BELOW GRADE
T5A	1A	15+80	41.7 L	NEW, EMBOSS LID WITH "LIGHTING"

- 1. MOA REQUIREMENTS ARE FROM 2007 DCM CHAPTER 5 FOR A LOCAL ROADWAY WITH LOW PEDESTRIAN CONFLICT (MEDIUM DENSITY RESIDENTIAL).
- 2. LIGHT LOSS FACTOR (LLF) = 0.85.
- 3. MOUNTING HEIGHTS ARE 30'.

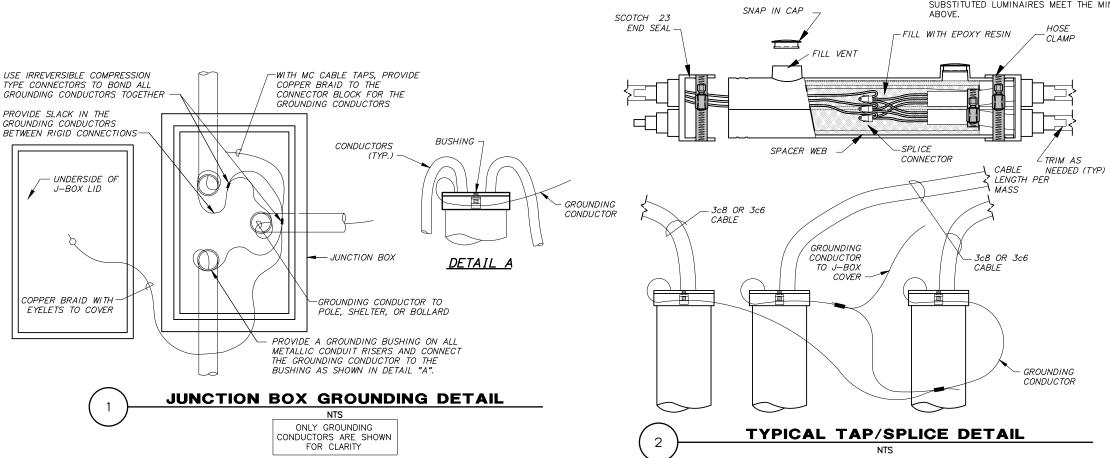
	LUMINAIRE DEFINITION										
TYPE	SYMBOL	MAKE	MODEL	LAMP	VOLTAGE	DISTRIBUTION	LUMENS	CCT*	COLOR	OPTIONS	MOUNT
ROADWAY	•*	CURRENT	ERL1	SEE LUMINAIRE SCHEDULE	240	SEE LUMINAIRE SCHEDULE	SEE LUMINAIRE SCHEDULE	3000K	SILVER	7-PIN RECEPTACLE W/ SHORTING CAP, BACKLIGHT SHIELD	MAST ARM

\*CCT = CORRELATED COLOR TEMPERATURE



- \* = ON DERBY WAY ALIGNMENT
- \*\* = PARALLEL TO CAMROSE DRIVE

SUBSTITUTION OF SPECIFIED LUMINAIRES REQUIRES SUBMITTAL OF A FULL LIGHTING ANALYSIS SHOWING THE SUBSTITUTED LUMINAIRES MEET THE MINIMUM MOA LIGHT LEVEL REQUIREMENTS PER THE LIGHTS LEVEL TABLE



ILLUMINATION JUNCTION BOX SCHEDULE								
J-BOX	TYPE	CIRCUIT	STATION	OFFSET				
J2A	2	LU-1	02+64.6	28.90 RT				
J2B	1A	LU-3	04+20.5	21.49 RT				
J4A	1A	LU-3	08+21.7	21.54 RT				
J5A	1A	LU-3	08+92.3	21.60 LT				

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

ECORD DRAWING		
. DATA PROVIDED BY:		TITLE:
THIS WILL SERVE TO CERTIFY THAT THES OF THE PROJECT AS CONSTRUCTED.	E RECORD DRAWINGS ARE A	TRUE AND ACCURATE REPRESENTATION
CONTRACTOR:		
BY:	_ TITLE:	DATE:
. DATA TRANSFERRED BY:		TITLE:
COMPANY:		DATE:
<ul> <li>BASED ON PERIODIC FIELD OBSERVATION SUPERVISION), THE CONTRACTOR—PROVIDE</li> </ul>		
DATA TRANSFER CHECKED BY:		TITLE:

\_ DATE: \_

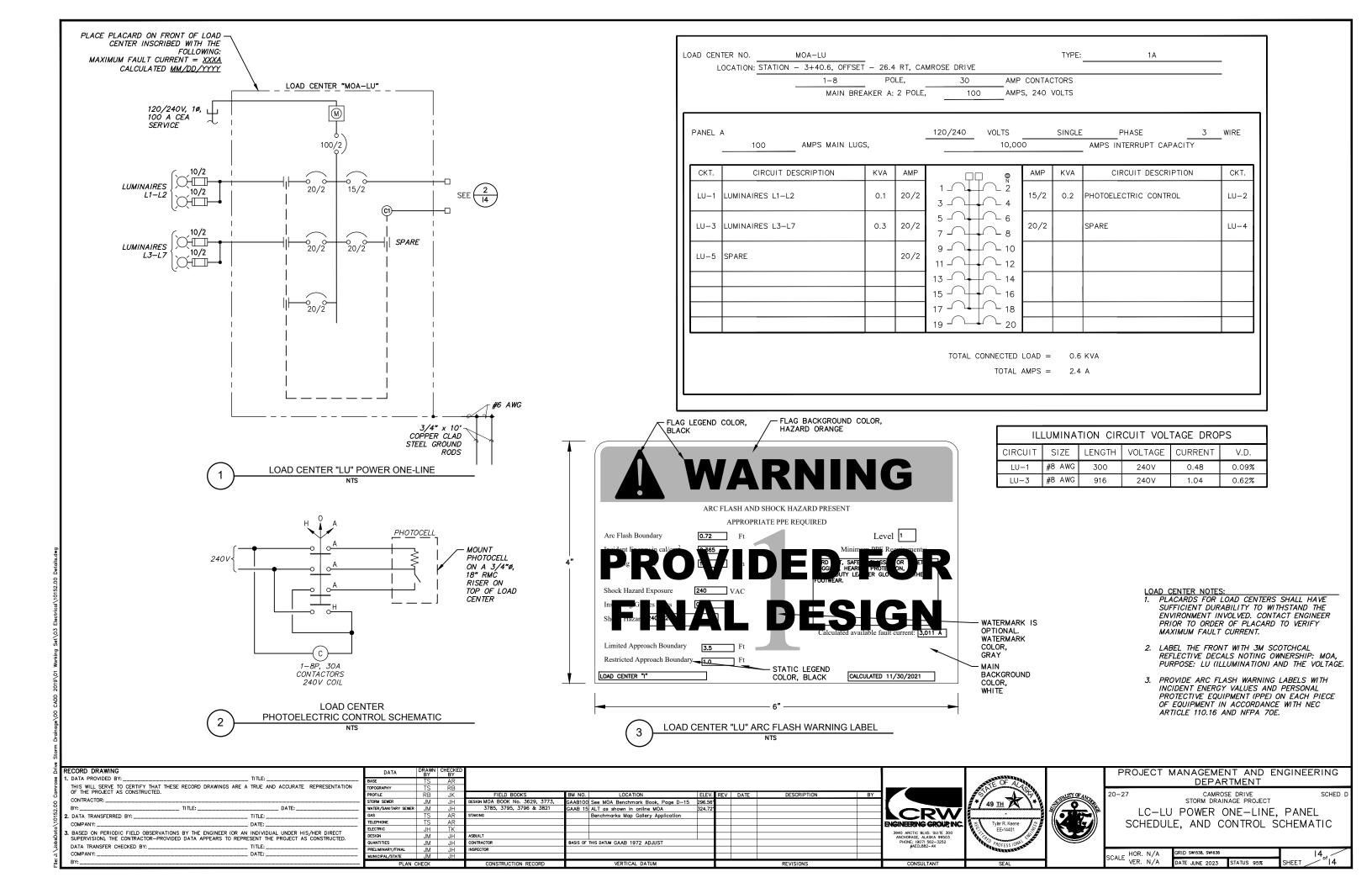
DATA	DRAWN BY	CHECKED								
SE	TS	AR								
POGRAPHY	TS	RB								
OFILE	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	Ι
ORM SEWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56				Т
TER/SANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72				Τ
NS .	TS	AR	STAKING		Benchmarks Map Gallery Application					Ι
LEPHONE	TS	AR								Τ
ECTRIC	JH	TK								Τ
SIGN	JM	JH	ASBUILT							Т
JANTITIES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST					Ι
RELIMINARY/FINAL	JM	JH	INSPECTOR							Τ
JNICIPAL/STATE	JM	JH								Ι
PLAN CHECK			CONSTRUCTION RECORD		VERTICAL DATUM				REVISIONS	

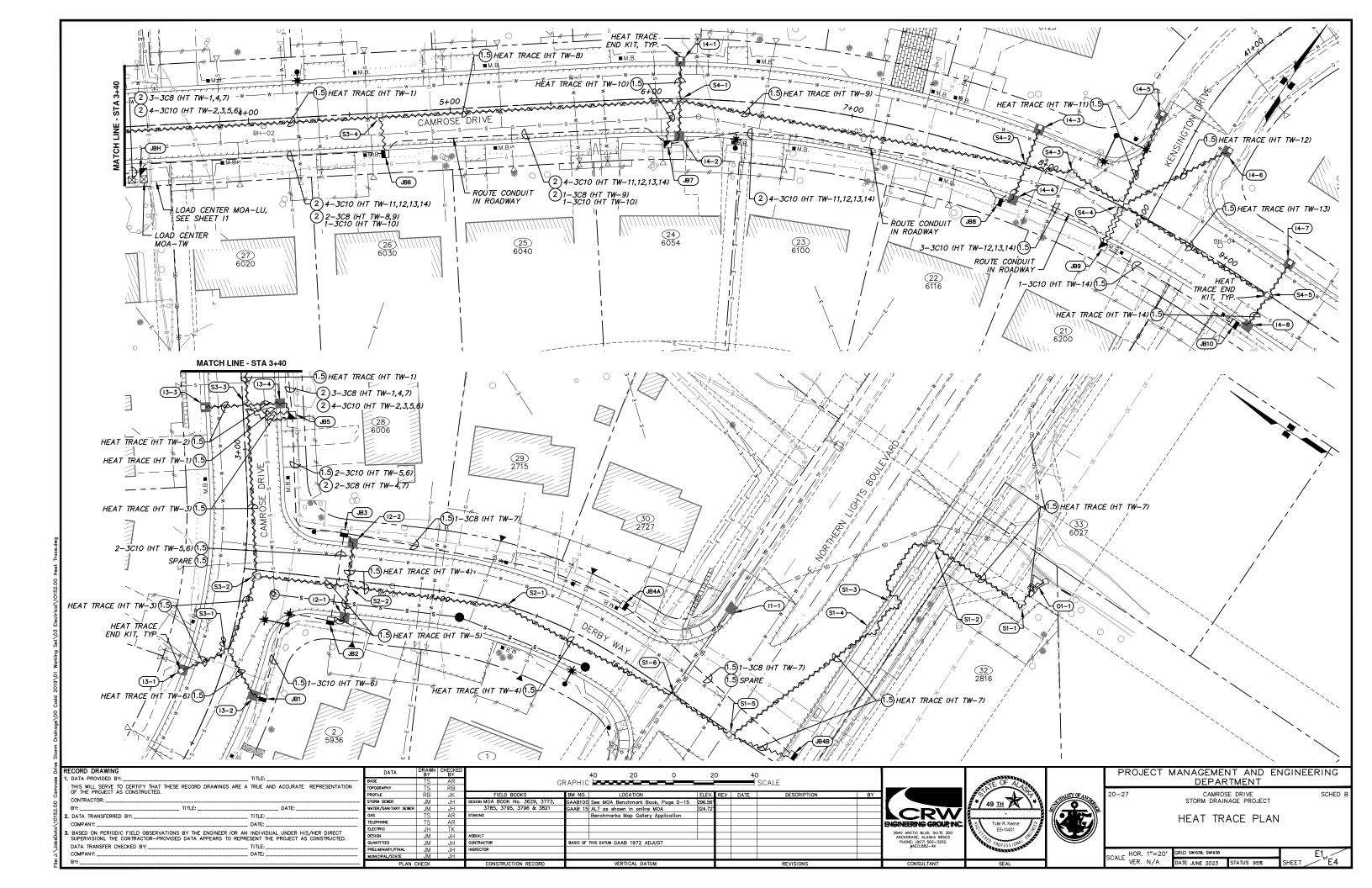
CRW NGINEERING GROUP INC 3940 ARCTIC BLVD. SUITE 300 ANCHORAGE, ALASKA 99503 PHONE: (907) 562-3252 #AECL882-AK

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT CAMROSE DRIVE STORM DRAINAGE PROJECT

ILLUMINATION AND INTERCONNECT SCHEDULES & DETAILS

SCALE HOR. DATE JUNE 2023 STATUS 95%





# HEAT TRACE CONSTRUCTION NOTES

- PROVIDE A HEAT TRACE CONTROLLER IN THE LOAD CENTER ENCLOSURE AT EACH LOCATION INDICATED ON THE DRAWINGS. INSTALL THE ENCLOSURE WITH THE DOOR FACING THE ADJACENT STREET.
- INSTALL RIGID STEEL CONDUIT WITH A #8
  AWG EQUIPMENT GROUNDING CONDUCTOR AND TWO XHHW-2 CONDUCTORS FOR EACH HEAT TRACE CIRCUIT BETWEEN THE CONTROLLER ENCLOSURE AND THE SERVING JUNCTION BOX. SIZE CONDUCTORS AND CONDUIT AS SHOWN ON THE PLANS.
- PROVIDE SEAL-OFF FITTINGS IN THE SERVING JUNCTION BOX ON THE CONDUITS THAT ENTER THE MANHOLES OR CATCH
- INSTALL HEAT TRACE CAUTION SIGNS, PER DETAIL 3/E4, AT EACH CATCH BASIN WITH HEAT TRACE AND AT THE OUTFALL. EMBED MARKERS 24" IN SOIL.
- INSTALL HEAT TRACE CONDUIT IN PIPES MANHOLES, CATCH BASINS PER DETAILS

- PROVIDE COMPLETED HEAT TRACE INSTALLATION RECORD (SEE MANUFACTURER'S INSTALLATION GUIDE FOR FORM) FOR FINAL ACCEPTANCE OF ALL HEAT TRACE RUNS. THIS SHALL INCLUDE INRUSH TEST AND STEADY STATE AFTER 15 MINUTES. CONTRACTOR TO RECORD AIR TEMPERATURE (OR WATER TEMPERATURE IF SUBMERGED) AT TIME OF TESTING.
- RUN CONTINUOUSLY BETWEEN THE LOAD CENTER AND THE HEAT TRACE SPLICE KIT. NO ADDITIONAL SPLICES ARE ALLOWED.
- INSTALL A BARE CU STRANDED GROUND WIRE IN ALL CONDUITS WITH COLD LEADS, MINIMUM SIZE #8 AWG.

# INSTALL ONLY ONE (1) HEAT TRACE CABLE IN EACH CONDUIT WITH HEAT TRACE. ALL COLD LEAD CONDUCTORS SHALL BE

CONDUCTOR FOR EACH HEAT TRACE CIRCUIT. SET SWITCH TO 0.75A AND TEST TO MAKE SURE SWITCH CLOSE WHEN HEAT TRACE CIRCUIT BREAKER IS TURNED ON AND STAYS ON AFTER 4 HOURS AT OUTSIDE AIR TEMPERATURE OF 40 DEGREED OR HIGHER. (5) PILOT LIGHT: 120 VOLT LIGHT EMITTING DIODE LAMP WITH GREEN LENS, NEMA 4X RATED IN OUTER DOOR OF ENCLOSURE. LABEL "HEAT TRACE ON". PROVIDE A SPARE LAMP.

15/1 HEATER BREAKER, 15/1 CONTROL BREAKER AND CLASS B GROUND FAULT CIRCUIT

INTERRUPTERS FOR HEAT TRACE CIRCUITS. HEAT TRACE CIRCUIT SIZES AS SHOWN IN

(3) ENCLOSURE HEATER: 800W THERMOSTATICALLY CONTROLLED 120V FAN-DRIVEN HEATER.

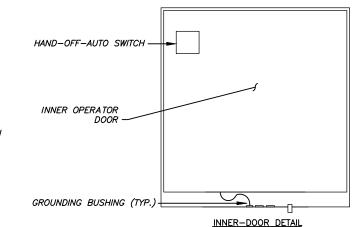
(4) ENCLOSED SELF-POWERED SPLIT CORE 120-277VAC ADJUSTABLE SWITCHING AC CURRENT SENSOR, RIB FUNCTIONAL DEVICES, INC #RIBXGAT-ECM OR APPROVED EQUAL. PROVIDE (1) PER HEAT TRACE CIRCUIT. INSTALL IN LOAD CENTER AND MONITOR L1

(1) 2 POLE MAIN CIRCUIT BREAKER, SIZE AS SHOWN IN THE PANEL SCHEDULES.

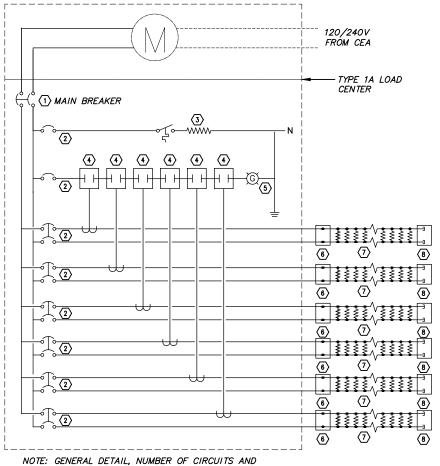
HEAT TRACE CONTROLLER MATERIALS LIST

HOFFMAN "D-AH8001B" OR EQUAL.

- (6) SPLICE KIT: POWER TO HEAT TRACE CABLE, LISTED FOR WET LOCATIONS. INSTALL PER HEAT TRACE MANUFACTURER'S RECOMMENDATIONS. CONNECT 3RD CONDUCTOR FROM 3C CABLE COLD LEADS TO THE GROUND SHEATH OF THE HEAT TRACE CABLE AND THE GROUND BUS BAR IN THE LOAD CENTER. IDENTIFY THE GROUND CONDUCTOR ON EITHER
- (7) HEAT TRACE CABLE: TEMPERATURE LIMITING TYPE LISTED FOR CLASS I, DIVISION 2 USE, WET LOCATIONS AND RATED AT 7 WATTS/FOOT AT 240 VOLTS. du ALASKA ARCTIC TRACE TL SERIES #Z120724CBTL OR APPROVED EQUAL.
- (8) HEAT TRACE END KIT PER MANUFACTURER. INSTALL NIPPLE AND CAP AT END OF CONDUIT RUN FOR END KIT.



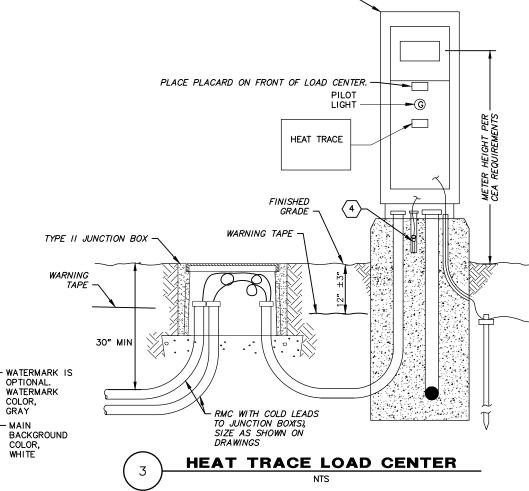
- LOAD CENTER NOTES PROVIDE A LOAD CENTER FOUNDATION THAT IS SIZED FOR THE LOAD CENTER BEING INSTALLED. LOAD CENTER SHOULD NOT OVERHANG THE FOUNDATION
- PLACARDS FOR LOAD CENTERS SHALL HAVE SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTACT ENGINEER PRIOR TO ORDER OF PLACARD FOR MAXIMUM FAULT CURRENT.
- 3. LABEL THE FRONT WITH 3M SCOTCHCAL REFLECTIVE DECALS NOTING OWNERSHIP: MOA, PURPOSE: TH (THAW WIRE) AND THE VOLTAGE.
- PROVIDE ARC FLASH WARNING LABELS WITH INCIDENT ENERGY VALUES AND PERSONAL PROTECTIVE EQUIPMENT (PPE) REQUIREMENTS ON EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.16 AND NFPA 70E. SEE DETAIL 2/E2.



BREAKER SIZE MAY VARY. SEE PLAN DRAWINGS & LOAD CENTER SCHEDULES.

FLAG BACKGROUND COLOR, FLAG LEGEND COLOR, HAZARD ORANGE ARC FLASH AND SHOCK HAZARD PRESENT APPROPRIATE PPE REQUIRED Pg R of Park In DE Recomments Programment of the Research of the R NAL DESIGN Restricted Approach Boundary 1.0 STATIC LEGEND CALCULATED 11/30/2021 LOAD CENTER "U' COLOR, BLACK

OAD CENTER MOA-TW ARC FLASH WARNING LABEL



TYPE 1A LOAD CENTER SEE MASS DETAIL 80-2

# LOAD CENTER CONTROL SCHEMATIC

RECORD DRAWING TITLE: THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: \_\_ . DATA TRANSFERRED BY: TITLE: COMPANY: DATE:

DATA UANTITIES

CONTRACTO

AAB100 See MOA Benchmark Book, Page D-15 296.5 AAB 15 ALT as shown in online MOA ASIS OF THIS DATUM GAAB 1972 ADJUST

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



PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

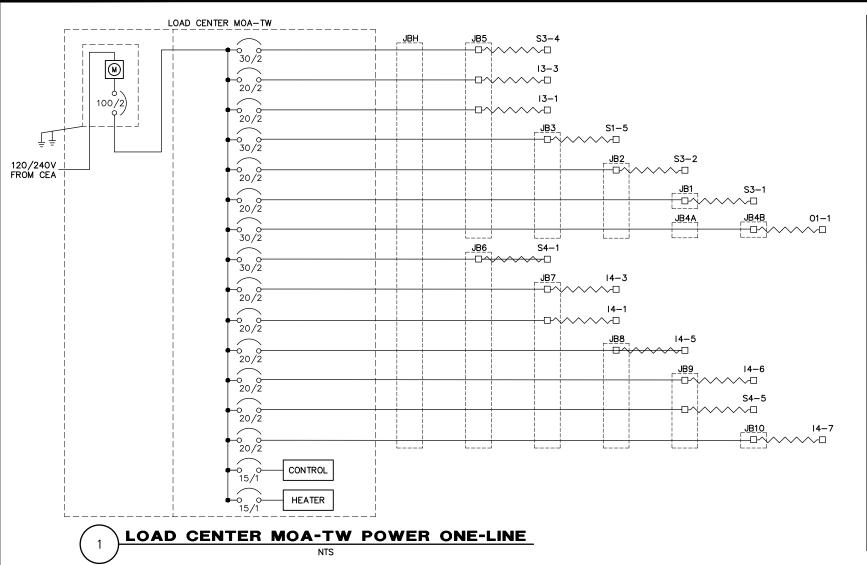
20-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

HEAT TRACE CONTROL SCHEMATIC & HEAT TRACE LOAD CENTER DETAILS

SCHED

E2<sub>of</sub> E4 HOR. N/A VER. N/A DATE JUNE 2023 STATUS 95%

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: \_ \_ DATE:



LOAD CENTER NO. MOA-TW TYPE: 1A

LOCATION: STATION - 3+46.5 , OFFSET - 26.5 RT, CAMROSE DRIVE

MAIN BREAKER A: 2 POLE, 150 AMPS, 240 VOLTS

PANEL .		AIN LUGS,		120/240 VOLTS 10,00	0	SINGLE	PHASE 3  AMPS INTERRUPT CAPACITY	_ WIR
CKT.	CIRCUIT DESCRIPTION	KVA	AMP	<del>-</del> ₽₽ •	AMP	KVA	CIRCUIT DESCRIPTION	Cł
TW-1	HEAT TRACE S3-4	1.9	30/2	3 - 4	20/2	0.8	HEAT TRACE 13-3	TW
TW-3	HEAT TRACE 13-1	2.1	20/2	5 6 7 8	30/2	3.0	HEAT TRACE S1-4	TW
TW-5	HEAT TRACE S3-2	0.6	20/2	9 10 12	20/2	5.6	HEAT TRACE S3-1	TW
TW-7	HEAT TRACE 01-1	2.9	30/2	13 - 14 15 - 16	30/2	1.9	HEAT TRACE S4-1	TW
TW-9	HEAT TRACE 14-3	2.5	30/2	17 18 19 20	20/2	0.7	HEAT TRACE 14-1	TW-
TW-11	HEAT TRACE 14-5	1.0	20/2	21 22 23 24	20/2	1.0	HEAT TRACE 14-6	TW
TW-13	HEAT TRACE S4-5	1.3	20/2	25 <u>26</u> 26 27 <u>28</u>	20/2	0.9	HEAT TRACE 14-7	TW
TW-15	HEATER	0.9	15/1	29 30	15/1	0.5	HEAT TRACE CONTROL	TW

TOTAL CONNECTED LOAD = 27.6 KVA

TOTAL AMPS = 115.0 A

	JUNCTION BOX TABLE								
TAG	TYPE	CIRCUITS	STATION	OFFSET					
JBH	TYPE 2	TW-1 - TW-14	LOCATE PE	R MASS					
JB1	TYPE 1A	TW-6, HT SPLICE KIT	01+83.0	23.5 RT					
JB2	TYPE 1A	TW-5, TW-6, HT SPLICE KIT	17+52.0	21.0 LT					
JB3	TYPE 1A	TW-4, TW-5, TW-6, TW-7, HT SPLICE KIT	17+50.0	23.0 RT					
JB4A	TYPE 1A	TW-7	16+14.5	23.0 RT					
JB4B	TYPE 1A	TW-7, HT SPLICE KIT	15+05.5	7.5 RT					
JB5	TYPE 2	TW-1 - TW-7, (3) HT SPLICE KITS	03+15.5	24.0 RT					
JB6	TYPE 1A	TW-8, TW-9, TW-10, TW-11, TW-12, TW-13, TW-14, HT SPLICE KIT	04+66.7	20.5 RT					
JB7	TYPE 2	TW-9, TW-10, TW-11, TW-12, TW-13, TW-14, (2) HT SPLICE KITS	06+08.0	22.5 RT					
JB8	TYPE 1A	TW-11, TW-12, TW-13, TW-14, HT SPLICE KIT	07+83.0	22.0 RT					
JB9	TYPE 2	TW-12, TW-13, TW-14, (2) HT SPLICE KITS	08+42.0	22.0 RT					
JB10	TYPE 1A	TW-14, HT SPLICE KIT	09+20.5	22.0 RT					

NEW HEAT TRACE TABLE							
CIRCUIT	FROM	ТО	LENGTH				
TW-1		13-4, S3-3	S3-4	220'			
TW-2	JB5	13-4, S3-3	13-3	90'			
TW-3		S3-3, S3-2, S3-1	13-1	245'			
TW-4	JB3	12-2, S2-2, S2-1, S1-6	S1-5	345'			
TW-5	JB2	12-1, S2-2	S3-2	70'			
TW-6	JB1	13–2	S3-1	80'			
TW-7	JB4B	S1-5, S1-4, S1-3, S1-2, S1-1	01-1	330'			
TW-8	JB6	S3-4	S4-1	215'			
TW-9	ID.7	14-2, S4-1, S4-2	14-3	290'			
TW-10	JB7	S4-1	14-1	80'			
TW-11	JB8	14-4, S4-2, S4-3, S4-4	14-5	115'			
TW-12	IDO	S4-4	14-6	115'			
TW-13	JB9	S4-4	S4-5	155'			
TW-14	JB10	14-8, S4-5	14-7	100'			

VOLTAGE DROP								
CIRCUIT	SIZE	LENGTH	VOLTAGE	CURRENT	V.D.			
TW-1	#8	35'	240	6.38	0.14%			
TW-2	#10	35'	240	2.61	0.09%			
TW-3	#10	35'	240	7.11	0.24%			
TW-4	#8	105'	240	10.01	0.64%			
TW-5	#10	150'	240	2.03	0.29%			
TW-6	#10	220'	240	2.32	0.49%			
TW-7	#8	370'	240	9.57	2.15%			
TW-8	#8	270'	240	6.24	1.02%			
TW-9	#8	270'	240	8.41	2.16%			
TW-10	#10	435'	240	2.32	0.96%			
TW-11	#10	435'	240	3.34	1.38%			
TW-12	#10	490'	240	3.34	1.56%			
TW-13	#10	490'	240	4.50	2.10%			
TW-14	#10	570'	240	2.90	1.58%			

RECORD DRAWING				DAT
1. DATA PROVIDED BY:		TITLE:		BASE
THIS WILL SERVE TO CERTIFY THAT THESE OF THE PROJECT AS CONSTRUCTED.	RECORD DRAWINGS ARE A	TRUE AND ACCURAT	E REPRESENTATION	TOPOGRAPHY
				PROFILE
CONTRACTOR:				STORM SEWER
BY:	TITLE:	DATE:		WATER/SANITA
2. DATA TRANSFERRED BY:		TITLE:		GAS
COMPANY:		DATE:		TELEPHONE
3. BASED ON PERIODIC FIELD OBSERVATIONS				ELECTRIC
SUPERVISION), THE CONTRACTOR-PROVIDED	DATA APPEARS TO REPRE	SENT THE PROJECT	AS CONSTRUCTED	DESIGN
DATA TRANSFER CHECKED BY:				QUANTITIES
COMPANY:				PRELIMINARY/
				MUNICIPAL/ST
BY:				

DATA	DRAWN BY	CHECKED BY							
	TS	AR							
PHY	TS	RB							
	RB	JK	FIELD BOOKS	BM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION
EWER	JM	JH	DESIGN MOA BOOK No. 3629, 3773,	GAAB100	See MOA Benchmark Book, Page D-15	296.56			
ANITARY SEWER	JM	JH	3785, 3795, 3796 & 3821	GAAB 15	ALT as shown in online MOA	324.72'			
	TS	AR	STAKING		Benchmarks Map Gallery Application				
NE	TS	AR							
:	JH	TK							
	JM	JH	ASBUILT						
ES	JM	JH	CONTRACTOR	BASIS OF	THIS DATUM GAAB 1972 ADJUST				
IARY/FINAL	JM	JH	INSPECTOR						
AL/STATE	JM	JH							
PLAN CHECK CONSTRUCTION RECORD		CONSTRUCTION RECORD	VERTICAL DATUM			REVISIONS			

ENGINEERING GROUP INC.

3940 ARCITIC BLVD. SUITE 300
AMCHORICG, ALASKA 99503
PHONE ACCUSED A 2922
ACCUSED A 2922





PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

D-27 CAMROSE DRIVE STORM DRAINAGE PROJECT

HEAT TRACE LOAD CENTER SCHEDULE & POWER ONE-LINE

SCALE VER. N/A GRID SWISS8, SWIGS8

DATE JUNE 2023 STATUS 95% SHEET 64

