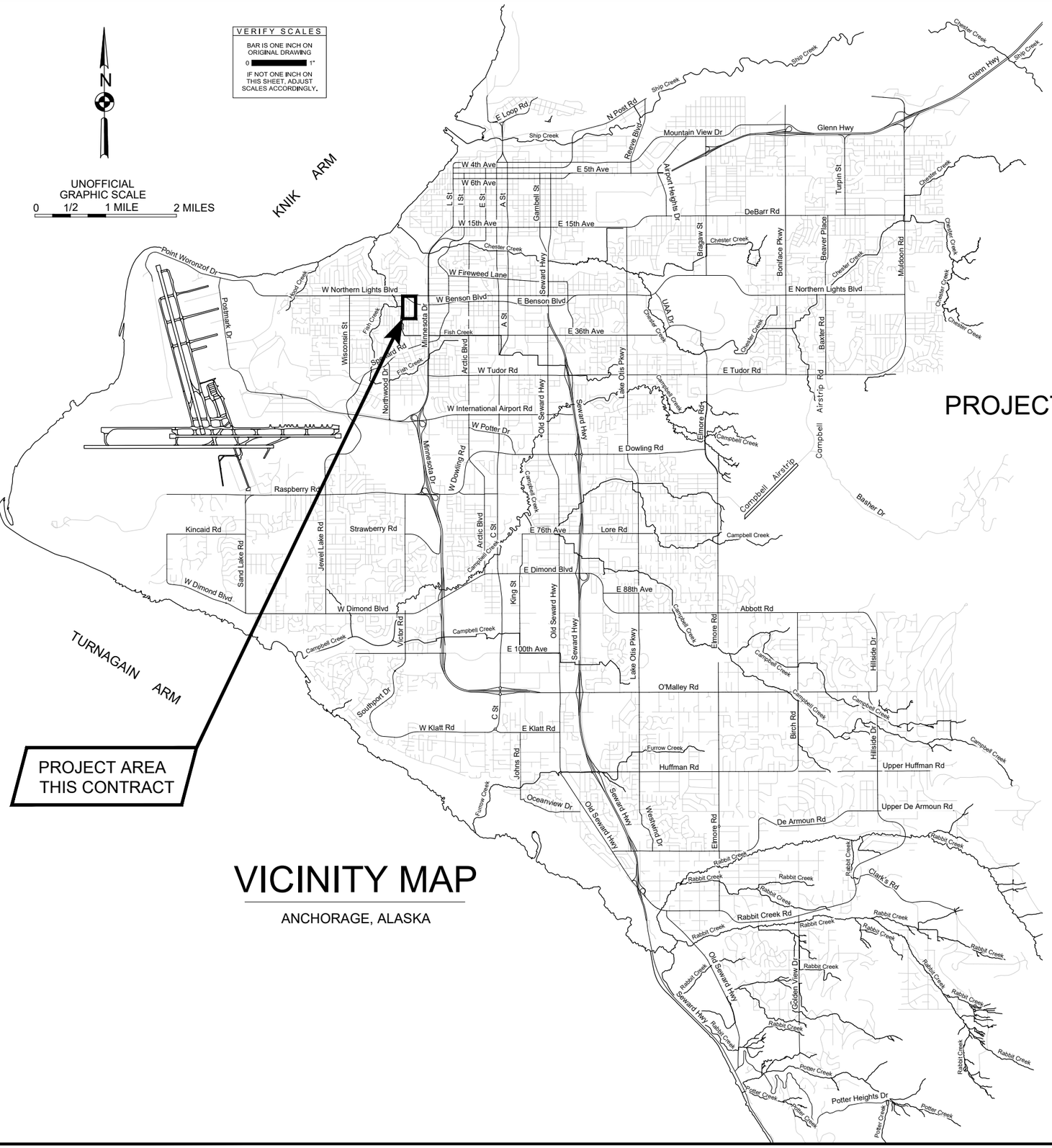

VICINITY MAP

ANCHORAGE, ALASKA

ANCHORAGE ALASKA

MUNICIPALITY OF ANCHORAGE
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

LOIS DRIVE RECONSTRUCTION
BENSON BOULEVARD TO 32ND AVENUE

PM&E PROJECT NUMBER 19-08

MARCH 2025
65% DESIGN

PREPARED BY:

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

APPROVED BY:

MELINDA T. KOHLHAAS, P.E.
MUNICIPAL ENGINEER

SHEET INDEX		
SHEET NO	DESCRIPTION	SCHEDULE
GENERAL		
G1	COVER SHEET	ALL
G2	SHEET INDEX	ALL
G3	GENERAL NOTES	ALL
G4	LEGEND & ABBREVIATIONS	ALL
G5	KEY MAP	ALL
SURVEY		
V1	SURVEY CONTROL	ALL
V2	TEMPORARY EASEMENT & PERMIT MAP	ALL
V3	TEMPORARY EASEMENT & PERMIT MAP	ALL
DEMOLITION		
B1	DEMOLITION PLAN	ALL
B2	DEMOLITION PLAN	ALL
B3	DEMOLITION PLAN	ALL
B4	DEMOLITION SUMMARY TABLES	ALL
B5	DEMOLITION SUMMARY TABLES	ALL
B6	DEMOLITION SUMMARY TABLES	ALL
TYPICAL SECTIONS		
C1	TYPICAL SECTIONS	SCHED A
C2	TYPICAL SECTIONS	SCHED A
C3	TYPICAL SECTIONS	SCHED A
C4	TYPICAL SECTIONS	SCHED A
ROADWAY		
R1	ROADWAY PLAN & PROFILE	SCHED A
R2	ROADWAY PLAN & PROFILE	SCHED A
R3	ROADWAY PLAN & PROFILE	SCHED A
R4	ROADWAY PLAN & PROFILE	SCHED A
R5	DRIVEWAY PLAN & PROFILE	SCHED A
R6	INTERSECTION LAYOUT PLAN	SCHED A
R7	INTERSECTION LAYOUT POINT SUMMARY	SCHED A
R8	INTERSECTION LAYOUT PLAN	SCHED A
R9	INTERSECTION LAYOUT PLAN	SCHED A
R10	INTERSECTION LAYOUT POINT SUMMARY	SCHED A
R11	DRIVEWAY LAYOUT PLAN	SCHED A
ROADWAY SUMMARY TABLES		
T1	ROADWAY SUMMARY TABLES	SCHED A
T2	ROADWAY SUMMARY TABLES	SCHED A
T3	ROADWAY SUMMARY TABLES	SCHED A
ROADWAY DETAILS		
D1	ROADWAY DETAILS	SCHED A
D2	ROADWAY DETAILS	SCHED A
D3	ROADWAY DETAILS	SCHED A
D4	ROADWAY DETAILS	SCHED A
D5	ROADWAY DETAILS	SCHED A
D6	ROADWAY DETAILS	SCHED A

SHEET INDEX		
SHEET NO	DESCRIPTION	SCHEDULE
SIGNING & STRIPING		
S1	SIGNING & STRIPING	SCHED A
S2	SIGNING & STRIPING	SCHED A
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 DETAILS	SCHED B
SD5	STORM DRAIN DETAILS	SCHED B
SD6	STORM DRAIN DETAILS	SCHED B
SD7	STORM DRAIN SUMMARY TABLES	SCHED B
ILLUMINATION		
I1	ILLUMINATION PLAN	SCHED C
I2	ILLUMINATION PLAN & NOTES	SCHED C
I3	ILLUMINATION SCHEDULES	SCHED C
I4	LOAD CENTER DETAILS AND SCHEDULES	SCHED C
SIGNALIZATION		
J1	TRAFFIC LEGEND AND NOTES	SCHED C
J2	SIGNALIZATION PLAN	SCHED A
J3	WIRING DIAGRAM	SCHED C
J4	SIGNAL PROFILES AND SCHEDULES	SCHED C
J5	SIGNAL DETAILS	SCHED C
LANDSCAPING		
L1	LANDSCAPE KEY MAP	SCHED A
L2	LANDSCAPE PLAN	SCHED A
L3	LANDSCAPE PLAN	SCHED A
L4	LANDSCAPE PLAN	SCHED A

WORK SCHEDULES	
A	ROADWAY IMPROVEMENTS
B	DRAINAGE IMPROVEMENTS
C	ILLUMINATION & SIGNALIZATION IMPROVEMENTS

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 3839 &
3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

SHEET INDEX

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET G2 of G5

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Sheet Index.dwg

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE (MOA) STANDARD SPECIFICATIONS, DATED 2024, (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. WHERE SINGLE CABLE, ELECTRIC, TELEPHONE, TRAFFIC, AND FIBER OPTIC LINES ARE SHOWN IN THE PLANS, MULTIPLE CONDUITS MAY EXIST IN THESE LOCATIONS AND SHALL BE PROTECTED IN PLACE BY CONTRACTOR UNLESS OTHERWISE NOTED. 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 BE MADE.

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.

4. 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.

7. 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.

8. 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 PER THE LANDSCAPING (L) SHEETS UNLESS OTHERWISE NOTED.

9. 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 D6.

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 NOT RIGHT-OF-WAY CENTERLINE PER SURVEY 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") VERTICAL 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 SHALL BE PAID AS "P.C.C. CURB AND GUTTER (ALL TYPES)" EXCEPT FOR CURBS WITH STEEL CURB FACING WHICH SHALL BE PAID AS "P.C.C. CURB AND GUTTER (TYPE 1, STEEL CURB FACING)".

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 A 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 SYSTEM TO BE REPLACED/EXTENDED IS IN A DIFFERENT HORIZONTAL AND VERTICAL LOCATION OF THE PROPOSED STORM DRAIN SYSTEM TO BE INSTALLED IN LOCATIONS AS SHOWN ON THE STORM DRAIN (SD) 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	265-2520
Military Fuel Lines	552-3760
State Storm Drains	333-2411

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

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19-08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

GENERAL NOTES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET G3 of G5

File: x:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 General Notes.dwg

PLAN LEGEND

PROPERTY

EXISTING	PROPOSED	
		CENTERLINE
		EASEMENT LINE
		PROPERTY LINE
		ROW LINE
		SECTION LINE
		TEMPORARY CONSTRUCTION EASEMENT/PERMIT

UTILITY

EXISTING	PROPOSED	
		ABANDONED UTILITY
C		CABLE TV LINE (UNDERGROUND)
OC		CABLE TV LINE (OVERHEAD)
OC/FO		CABLE TV LINE & FIBER OPTIC (OVERHEAD)
U.C.		CABLE TV PEDESTAL (UNDERGROUND)
		CONTROLLER OR ATR CABINET
		CULVERT
E		ELECTRIC LINE (UNDERGROUND)
OE		ELECTRIC LINE (OVERHEAD)
OEC		ELECTRIC & CABLE TV LINE (OVERHEAD)
OE/T		ELECTRIC & TELEPHONE LINE (OVERHEAD)
OE/C/FO		ELECTRIC, CABLE TV & FIBER OPTIC (OVERHEAD)
		ELECTRIC JB TYPE IA
		ELECTRIC JB TYPE II
		ELECTRIC JB TYPE III
		ELECTRIC LOAD CENTER
E		ELECTRIC MANHOLE/JB
OEM		ELECTRIC METER
U.E.		ELECTRIC PEDESTAL UNDERGROUND
		ELECTRIC RADAR SPEED SIGN
SC		ELECTRIC SWITCH CABINET
T		ELECTRIC TRANSFORMER
E		ELECTRIC VAULT
FO		FIBER OPTIC LINE (UNDERGROUND)
FO		FIBER OPTIC VAULT
FD		FLOOR DRAIN
FS	FS	FOOTING DRAIN SERVICE LINE
FS	FS	FOOTING DRAIN SERVICE CONNECTION
G		GAS LINE
G.M.		GAS METER
		GAS VALVE
		GUY POLE
		GUY ANCHOR
		JOINT USE ELECTRIC & TELEPHONE POLE
		LIGHTED BOLLARD
L		LIGHTING LINE
		LUMINAIRE
		LUMINAIRE (PEDESTRIAN)
		REMOVE PIPE
S	S	SANITARY SEWER LINE
		SANITARY SEWER MANHOLE
		SANITARY SEWER SERVICE CONNECTION
C.O.		SANITARY SEWER CLEANOUT
SD	SD	STORM DRAIN LINE
SB	SB	SUBDRAIN LINE
		STORM DRAIN CATCH BASIN
		STORM DRAIN CATCH BASIN MANHOLE OR MH
		STORM DRAIN MANHOLE (TYPE VARIES)
		STUBOUT CAPPED OR PLUGGED END

UTILITY

EXISTING	PROPOSED	
OT/C		TELEPHONE & CABLE TV LINE (OVERHEAD)
OT		TELEPHONE LINE (OVERHEAD)
T		TELEPHONE LINE (UNDERGROUND)
T		TELEPHONE MANHOLE
U.T.		TELEPHONE PEDESTAL
413	414	TRAFFIC DETECTOR LOOPS
TF		TRAFFIC LINE (UNDERGROUND)
S	S	TRAFFIC SIGNAL POLE
S	S	TRAFFIC SIGNAL POLE/LUMINAIRE
		UTILITY POLE
W		WATER LINE
		WATER FIRE HYDRANT
		WATER KEY BOX
W		WATERTIGHT SANITARY SEWER MANHOLE
		WATER VALVE
		WATER WELL

ROADWAY

EXISTING	PROPOSED	
		APPROX SLOPE LIMITS (CUT)
		APPROX SLOPE LIMITS (FILL)
		COLORED CONCRETE (RED, THICKNESS VARIES, IMPRINTED)
		CURB & GUTTER
		EDGE OF PAVEMENT
		EDGE OF SIDEWALK/CONCRETE
		GUARDRAIL, BARRIER RAIL
		POROUS PAVEMENT SYSTEM
		RETAINING WALL (TYPE VARIES)
		STREET SIGN
		UNPAVED (GRAVEL) EDGE OF ROAD/DWY

MISCELLANEOUS

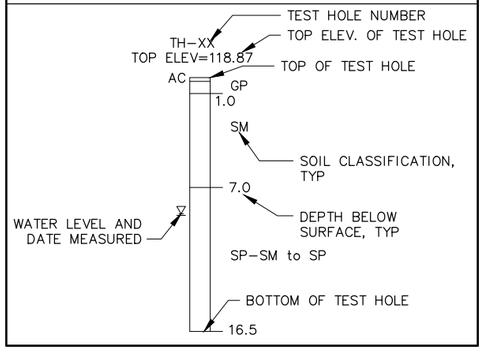
EXISTING	PROPOSED	
		BLUFF AREA/ EARTHWORK SLOPE
		BOLLARD/POST (TYPE VARIES)
		BOULDER
70.0		CONTOUR
		DECK
		DRAINAGE ARROW (DIRECTION OF FLOW)
		DRAINAGE SWALE
		FENCE (TYPE VARIES)
		FENCE (DECORATIVE)
		HOUSE OR STRUCTURE
		LANDSCAPING ROCK
M.B.	M.B.	MAILBOX (INDIVIDUAL)
		MAILBOX (CLUSTER)
N.B.		NEWS BOX
P		PARKING METER
	1 PARCEL ADDRESS	PARCEL NUMBER WITH PARCEL ADDRESS BELOW
		STREAMBANK RECONSTRUCTION (FULL)
		STREAMBANK RECONSTRUCTION (LIMITED)
		STREAM/EDGE OF WATERWAY
		TREE/SHRUB (CONIFEROUS)
		TREE/SHRUB (DECIDUOUS)
		TEST BORING OR TEST HOLE
		VEGETATION & BRUSH/TREE LINE

PROFILE LEGEND

SYMBOL

EXISTING	PROPOSED	
		APPROXIMATE EXCAVATION LIMITS
		GROUND OVER PIPE
	0.00%	GRADE AT CENTER LINE
		GRADE AT LEFT ROW
		GRADE AT RIGHT ROW
		PIPE (PROFILE)
		PIPE (SECTION)
		STORM DRAIN CATCH BASIN/OGS
		STORM DRAIN/SANITARY SEWER MANHOLE & PIPE
UTILITY CROSSING		UTILITY CROSSING (WATER/SEWER/STORM DRAIN)
C		UTILITY CROSSING (CABLE)
E		UTILITY CROSSING (ELECTRIC)
FO		UTILITY CROSSING (FIBER OPTIC)
G		UTILITY CROSSING (GAS)
T		UTILITY CROSSING (TELEPHONE)
TF		UTILITY CROSSING (TRAFFIC)
OE		UTILITY CROSSING (OVERHEAD ELECTRIC)
		INSULATION
		RIPRAP

LEGEND – SOIL



NOTES:

1. STANDARD LEGEND AND ABBREVIATIONS SHOWN. NOT ALL LEGEND ITEMS AND ABBREVIATIONS ARE PART OF THIS CONTRACT.
2. SOIL CLASSIFICATION IS BASED UPON UNIFIED SOIL CLASSIFICATION (ASTM D 2487-00). SEE GEOTECHNICAL SOIL BORING LOGS FOR MORE INFORMATION.
3. SEE LEGEND ON SHEET V1 FOR SURVEY CONTROL SYMBOLS. ADDITIONAL LEGEND AND ABBREVIATION ITEMS NOT SHOWN HERE ARE PROVIDED ON SPECIFIC SHEETS THROUGHOUT THE DRAWINGS.

COMMON ABBREVIATIONS (ABBR.)

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
AC	ASPHALT CONCRETE	MSL	MEAN SEA LEVEL
	ASBESTOS CEMENT	N	NORTH
ACP	ASPHALT CONCRETE PAVEMENT	N/A	NOT APPLICABLE
AD	ALGEBRAIC DIFFERENCE	N.I.C.	NOT IN CONTRACT
ADEC	ALASKA DEPARTMENT OF ENVIRONMENTAL CONSERVATION	NTS	NOT TO SCALE
		NWT	NO WATER TABLE
AWG	AMERICAN WIRE GAUGE	OC	ON CENTER
AWWA	AMERICAN WATER WORKS ASSOCIATION	OCEW	ON CENTER EACH WAY
APPROX/ APPX	APPROXIMATE	OD	OUTSIDE DIAMETER
		OGS	OIL AND GRIT SEPARATOR
BM	BENCH MARK	OH	OVERHEAD
BOP	BEGINNING OF PROJECT	PC	POINT OF CURVATURE
	BOTTOM OF PIPE (OUTSIDE)	PCC	PORTLAND CONCRETE CEMENT
BOS	BOTTOM OF STEEL		POINT OF CONTINUOUS CURVATURE
C&G	CURB AND GUTTER	PCMP	PRECOATED CORRUGATED METAL PIPE
CB	CATCH BASIN	PCPEP	PERFORATED CORRUGATED POLYETHYLENE PIPE
CBMH	CATCH BASIN MANHOLE		
CI	CAST IRON	PI	POINT OF INTERSECTION
C/L, CL	CENTERLINE	PL, P/L	PROPERTY LINE
CMP	CORRUGATED METAL PIPE	POB	POINT OF BEARING
CO	CLEANOUT	PSL	POSTED SPEED LIMIT
CONST	CONSTRUCTION	PT	POINT OF TANGENCY
CPEP	CORRUGATED POLYETHYLENE PIPE	PUE	PUBLIC USE EASEMENT
CY	CUBIC YARD	PVC	POINT OF VERTICAL CURVATURE
DIA	DIAMETER	PVC	POLYVINYL CHLORIDE
DI	DUCTILE IRON	PVI	POINT OF VERTICAL INTERSECTION
DW	DETECTABLE WARNING	PVT	POINT OF VERTICAL TANGENT
DWY	DRIVEWAY	REINF	REINFORCEMENT
E	EAST	ROW, R/W	RIGHT OF WAY
ELEC	ELECTRIC / ELECTRICAL	RJIB	RESTRAINED JOINT INTEGRAL BELL
ELEV, EL	ELEVATION	RT, R	RIGHT
EOP	END OF PROJECT / EDGE OF PAVEMENT	S	SOUTH
F&I	FURNISH AND INSTALL	S/W	SIDEWALK
FF	FINISHED FLOOR	SS	STAINLESS STEEL
FG	FINISHED GRADE	SF	SQUARE FOOT
FH	FIRE HYDRANT	SI	STREET INTERSECTION
GA	GAUGE	ST	STREET
GALV	GALVANIZED	STA	STATION / STATIONING
GB	GRADE BREAK	STD	STANDARD
GV	GATE VALVE	STRUCT	STRUCTURE
H/HORIZ	HORIZONTAL	TBC	TOP BACK OF CURB
HMWPE	HIGH MOLECULAR WEIGHT POLYETHYLENE	TBM	TEMPORARY BENCH MARK
JB	JUNCTION BOX	TCP	TEMPORARY CONSTRUCTION PERMIT
LC	LOAD CENTER		TRAFFIC CONTROL PLAN
IAW	IN ACCORDANCE WITH	TELE	TELEPHONE
ID	INSIDE DIAMETER	TH	TEST HOLE
IE/INV	INVERT ELEVATION (INSIDE BTM OF PIPE)	TOP	TOP OF PIPE
INTX	INTERSECTION	TOS	TOP OF STEEL
INV	INVERT	TW	TOP OF WALL
KB	KEYBOX	TYP	TYPICAL
LF	LINEAR FOOT	UG	UNDERGROUND
LT, L	LEFT	UON	UNLESS OTHERWISE NOTED
LUM	LUMINAIRE	UTIL	UTILITY
MAX	MAXIMUM	VERT	VERTICAL
ME	MATCH EXISTING	VB	VALVE BOX
MH	MANHOLE	VC	VERTICAL CURVE
MIN	MINIMUM	W	WEST
MON	MONUMENT	W/	WITH

RECORD DRAWING

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

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

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

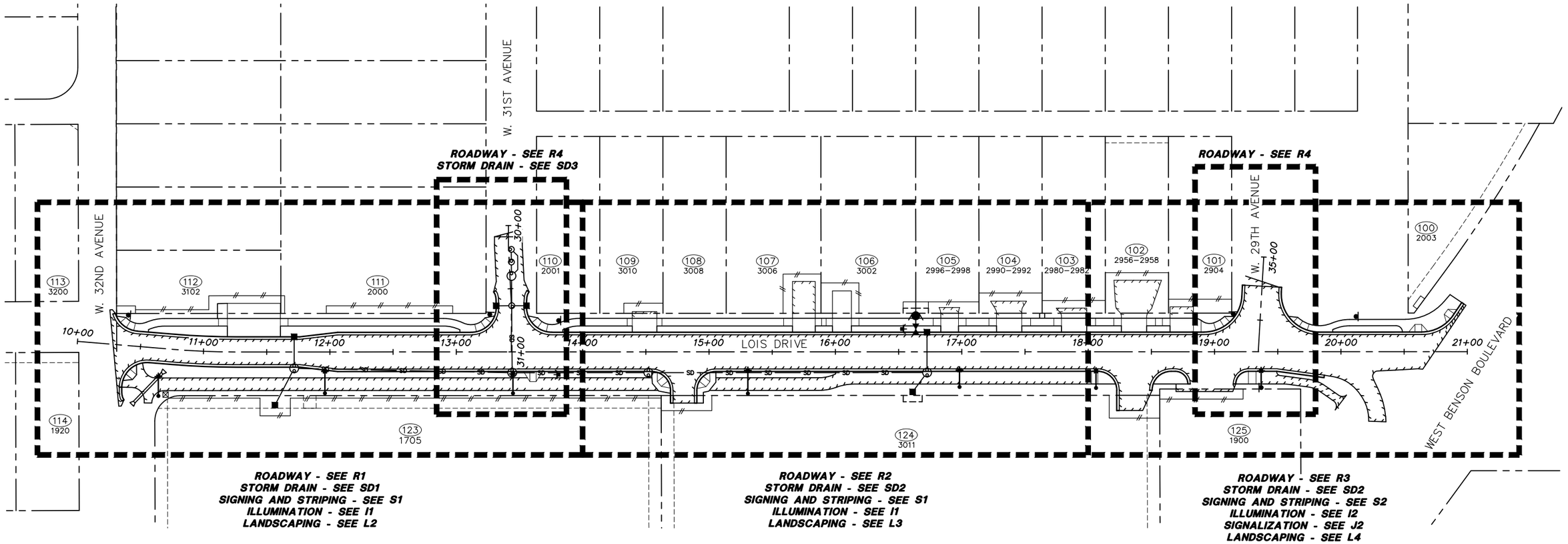
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE ALL

LEGEND & ABBREVIATIONS

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET G4 of G5

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Legend & Abbreviations.dwg



NOTES:

1. *EXISTING FEATURES ARE NOT SHOWN FOR CLARITY.*
2. *NOT ALL SHEETS ARE CALLED OUT FOR CLARITY.*

RECORD DRAWING

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

PLAN CHECK

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

GRAPHIC SCALE 80 40 0 40 80

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

SEAL

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

MUNICIPALITY OF ANCHORAGE

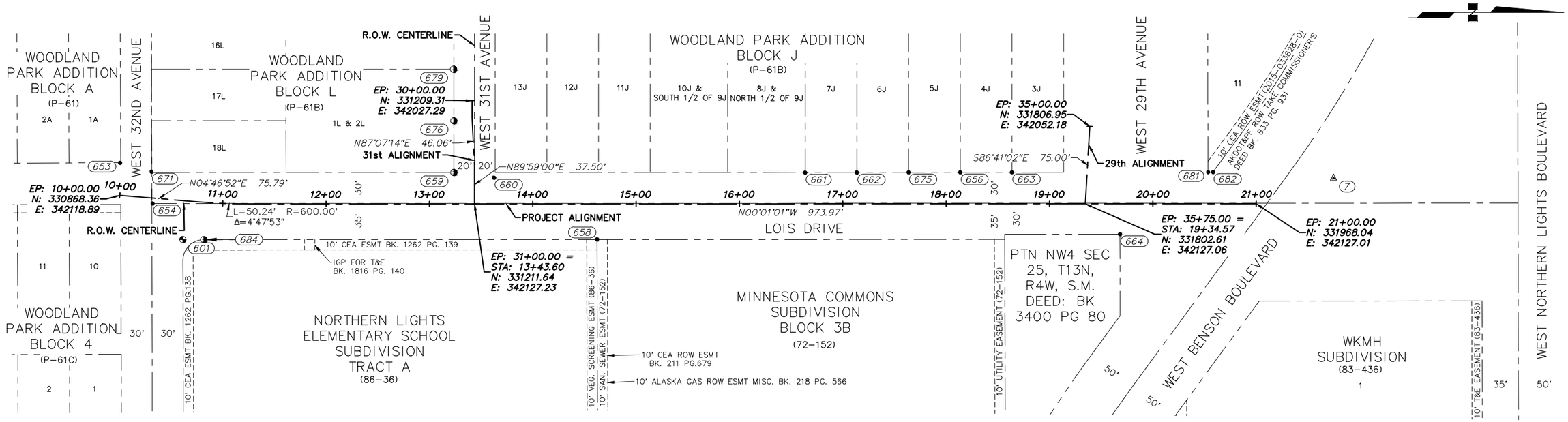
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

KEY MAP

SCALE HOR. 1"=40'
VER. N/A
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET G5 of G5

File:J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Key Map.dwg



HORIZONTAL CONTROL

COORDINATE SYSTEM:
THIS PROJECT IS LOCATED ENTIRELY WITHIN THE ANCHORAGE BOWL 2000 ADJUSTMENT, A LOCAL SURFACE GRID COORDINATE SYSTEM EXPRESSED IN U.S. SURVEY FEET UNITS DEVELOPED BY THE ALASKA DEPARTMENT OF TRANSPORTATION.

BASIS OF COORDINATES:
THE BASIS OF COORDINATES IS NGS STATION O'MALLEY, LOCATED NEAR THE INTERSECTION OF THE NEW SEWARD HIGHWAY AND O'MALLEY ROAD. SAID STATION HAS ANCHORAGE BOWL 2000 COORDINATES OF 303939.2310 N, 353362.5446 E. U.S. SURVEY FEET.

BASIS OF BEARINGS:
THE BASIS OF BEARINGS IS A LOCAL PLANE BEARING BETWEEN NGS STATION O'MALLEY AND NGS STATION LOOP 2 USE RM 3 1964. NGS STATION LOOP 2 USE RM 3 1964 BEARS N 01°43'26.4" E A DISTANCE OF 49488.4476 FEET FROM NGS STATION O'MALLEY. NGS STATION LOOP 2 USE RM 3 1964 HAS ANCHORAGE BOWL 2000 COORDINATES OF 353405.2778 N, 354851.3982 E. U.S. SURVEY FEET.

TRANSLATION PARAMETERS:
TO CONVERT THE LOCAL COORDINATES TO NAD83 (92) STATE PLANE COORDINATES EXPRESSED IN U.S. SURVEY FEET, TRANSLATE USING +2,296,868.6878 N U.S. SURVEY FEET, +1,312,517.4904 E U.S. SURVEY FEET, AND SCALE USING 0.9998910192.

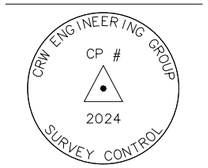
VERTICAL CONTROL

PROJECT VERTICAL DATUM IS GAAB 1972 ADJUSTMENT HOLDING MOA BENCHMARK GAAB 76 WITH PUBLISHED ELEVATION OF 94.04', AS DESCRIBED ON PAGE D-16 OF THE MOA BENCHMARK BOOK, AND MOA BENCHMARK CB-TL3A WITH A PUBLISHED ELEVATION OF 96.09', AS DESCRIBED ON PAGE D-16 OF THE MOA BENCHMARK BOOK.

SURVEY NOTES

1. FIELD SURVEY WAS CONDUCTED MAY-JULY, 2024.
2. ALL POINTS SHOWN HEREON WERE ESTABLISHED BY NETWORK STATIC GNSS, REDUNDANT RTK GNSS, OR CONVENTIONALLY VIA REPEATED ANGLES FROM MULTIPLE BACK SIGHTS.
3. ALIGNMENTS SHOWN ARE PROJECT ALIGNMENTS AND DO NOT NECESSARILY REPRESENT RIGHT-OF-WAY CENTERLINE.

CRW CONTROL TYPICAL



LEGEND

- ◑ EXISTING ALUMINUM CAP
- • EXISTING REBAR, PLASTIC CAP, OR PIPE
- ◕ EXISTING BRASS CAP
- ◬ CONTROL SET BY CRW
- (500) CONTROL POINT NUMBER

HORIZONTAL CONTROL – LOIS DRIVE ALIGNMENT

POINT NO	STATION	OFFSET	NORTHING	EASTING	DESCRIPTION
* 7			332043.01	342102.21	SET 2" ALUMINUM CAP (CRW TYPICAL) ON 5/8" X 30" REBAR, 0.3' BELOW SURFACE
* 8			332257.78	342355.58	SET 2" ALUMINUM CAP (CRW TYPICAL) ON 5/8" X 30" REBAR, 0.2' BELOW SURFACE
601	10+64.47	37.64' RT	330929.47	342161.77	FOUND 3 1/4" BRASS CAP, 1.2' BELOW SURFACE, PLUMB & IN GOOD CONDITION
* 653			330868.75	342087.46	FOUND 5/8" REBAR, 0.1' BELOW SURFACE, PLUMB & IN GOOD CONDITION
654	10+32.32	5.26' RT	330900.13	342126.82	FOUND 5/8" REBAR, 0.45' BELOW SURFACE, PLUMB & IN GOOD CONDITION
656	18+13.59	30.39' LT	331681.62	342096.70	FOUND 1 1/4" YELLOW PLASTIC CAP ON 5/8" REBAR, 0.4' BELOW SURFACE, PLUMB & IN GOOD CONDITION
658	14+62.14	34.38' RT	331330.19	342161.58	FOUND 5/8" REBAR, FLUSH W/ SURFACE, TOP BENT & IN FAIR CONDITION
659	13+23.60	30.37' LT	331191.63	342096.87	FOUND 2" ALUMINUM CAP, FLUSH WITH SURFACE, PLUMB & IN GOOD CONDITION
660	13+62.57	25.37' LT	331230.60	342101.86	FOUND 5/8" REBAR, 0.3' BELOW SURFACE, TOP BENT & IN FAIR CONDITION
661	16+63.53	30.16' LT	331531.55	342096.97	FOUND 1 1/4" YELLOW PLASTIC CAP ON 5/8" REBAR, 0.3' BELOW SURFACE, PLUMB & IN GOOD CONDITION
662	17+13.58	30.28' LT	331581.61	342096.84	FOUND 1 1/4" YELLOW PLASTIC CAP ON 5/8" REBAR, 0.2' BELOW SURFACE, PLUMB & IN GOOD CONDITION
663	18+63.58	30.43' LT	331731.60	342096.65	FOUND 1 1/4" YELLOW PLASTIC CAP ON 5/8" REBAR, 0.15' BELOW SURFACE, PLUMB & IN GOOD CONDITION
664	19+68.12	29.50' RT	331836.17	342156.54	FOUND 5/8" REBAR, 0.6' BELOW SURFACE, PLUMB & IN GOOD CONDITION
671	10+28.74	25.34' LT	330899.11	342096.03	FOUND 1 1/2" IRON PIPE, FLUSH W/ SURFACE, PLUMB & IN GOOD CONDITION
675	17+63.61	30.44' LT	331631.63	342096.67	FOUND 1 1/4" YELLOW PLASTIC CAP ON 5/8" REBAR, 0.2' BELOW SURFACE, PLUMB & IN GOOD CONDITION
676	13+23.59	80.33' LT	331191.60	342046.91	FOUND 2" ALUMINUM CAP, 0.2' BELOW SURFACE, PLUMB & IN GOOD CONDITION
679	13+23.38	130.30' LT	331191.38	341996.94	FOUND 2" ALUMINUM CAP, 0.3' BELOW SURFACE, PLUMB & IN GOOD CONDITION
681	20+53.42	30.56' LT	331921.45	342096.46	FOUND 5/8" REBAR, 0.3' BELOW SURFACE, PLUMB & IN GOOD CONDITION
682	20+58.28	30.63' LT	331926.31	342096.39	FOUND 5/8" REBAR, 0.25' BELOW SURFACE, FLUSH, PLUMB & IN GOOD CONDITION
684	10+84.04	36.04' RT	330949.60	342161.79	FOUND 2" ALUMINUM CAP, 0.1' BELOW SURFACE, PLUMB & IN GOOD CONDITION

* ALL POINTS WITH STATION & OFFSET BLANK IN TABLE ARE LOCATED OUTSIDE THE LOIS DRIVE ALIGNMENT AREA.

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

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

PLAN CHECK

GRAPHIC SCALE 100 50 0 50 100

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA 49 TH
Anthony J. Robinson
LS-12316
REGISTERED PROFESSIONAL LAND SURVEYOR

SEAL

MUNICIPALITY OF ANCHORAGE

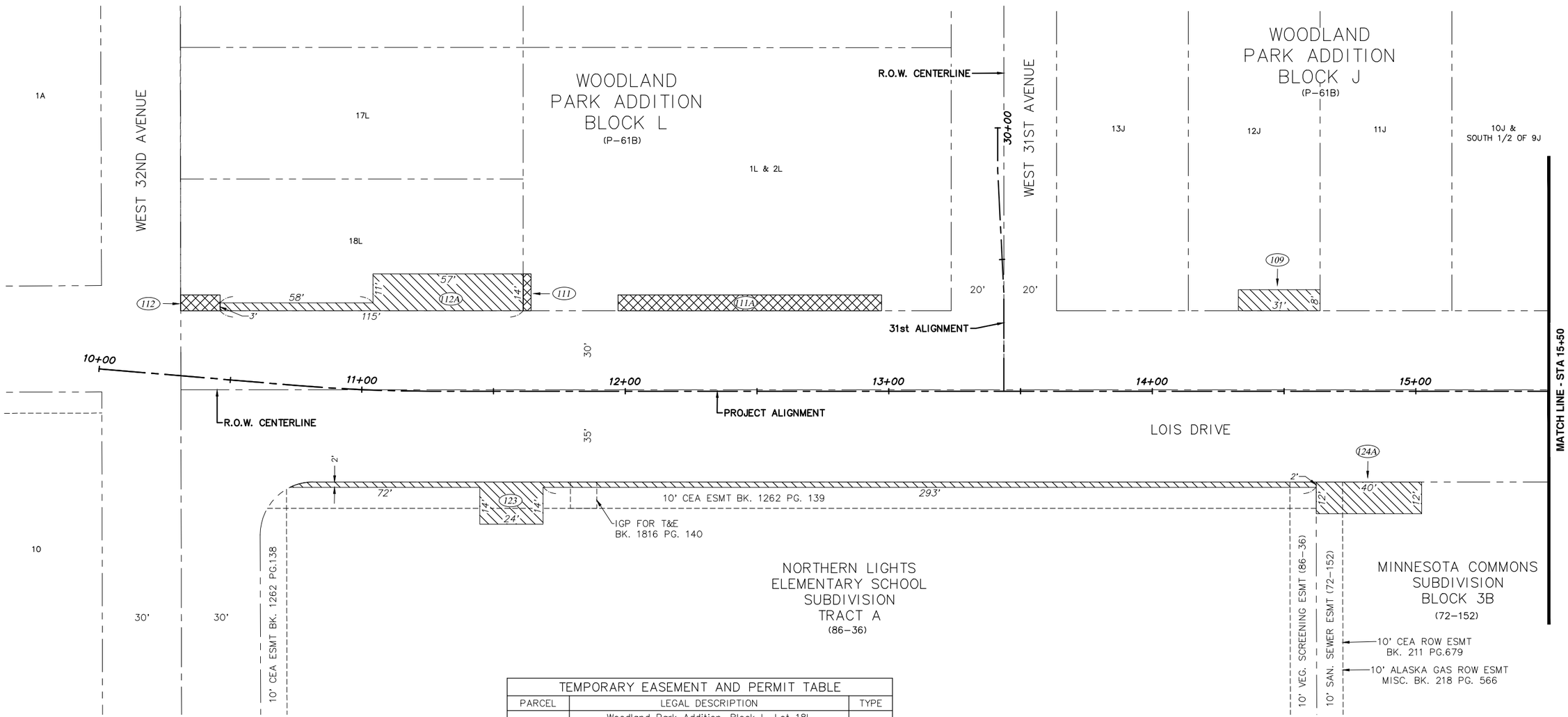
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE ALL

SURVEY CONTROL

SCALE HOR. 1"=50' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET V1 of V3

File: \\crweng.com\Projects\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 Cadd 2019\01 Working Set\02 Survey\03 Survey Control\10145.00 Survey Control Drawing.dwg



TEMPORARY EASEMENT AND PERMIT TABLE		
PARCEL	LEGAL DESCRIPTION	TYPE
112	Woodland Park Addition, Block L, Lot 18L Plat P-61B	TCE
112A	Woodland Park Addition, Block L, Lot 18L Plat P-61B	TCP
111	Woodland Park Addition, Block L, Lot 1L & 2L Plat P-61B	TCE
111A	Woodland Park Addition, Block L, Lot 1L & 2L Plat P-61B	TCE
109	Woodland Park Addition, Block J, Lot 12J Plat P-61B	TCP
123	Northern Lights Elementary School Subdivision, Tract A Plat 86-36	ITCP
124A	Minnesota Commons Subdivision, Block 3B Plat 72-152	TCP

LEGEND

(1) Parcel Number

Temporary Construction Permit (TCP) or Intragovernmental Temporary Construction Permit (ITCP)

Temporary Construction Easement (TCE)

Temporary Construction Permits (TCP) & Intergovernmental Temporary Construction Permits (ITCP) are dimensioned on this sheet. Temporary Construction Easements (TCE) are dimensioned on a Separate Parcel Map Exhibit.

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
   THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.
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DATA	DRAWN BY	CHECKED BY
BASE	BB	BW
TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA 49 TH
Anthony J. Robinson
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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

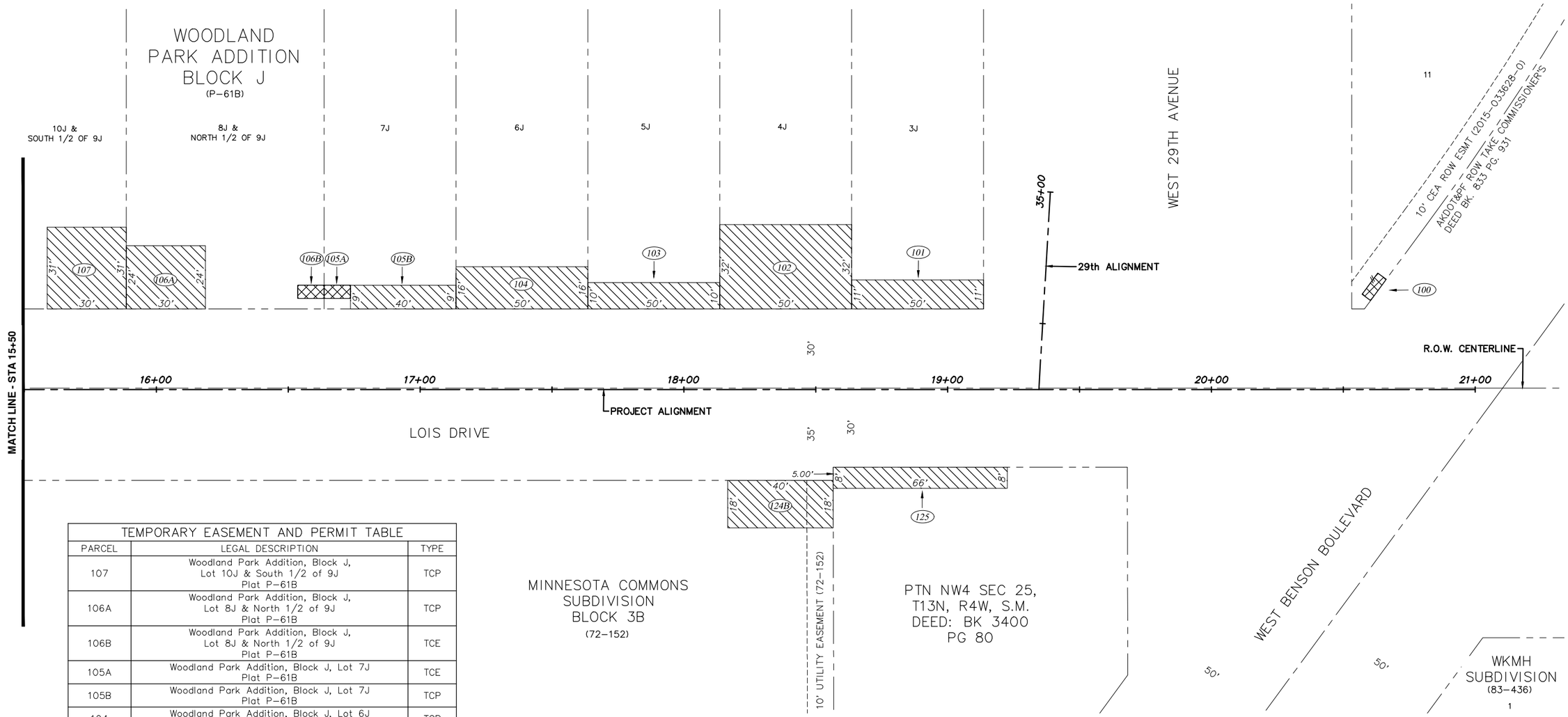
TEMPORARY EASEMENT & PERMIT MAP

BOP TO STA 15+50

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

GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET V2 of V3

File: \\crweng.com\Projects\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 Cadd 2019\01 Working Set\02 Survey\04 Easements\10145.00 Temporary Easement & Permit Map.dwg



TEMPORARY EASEMENT AND PERMIT TABLE		
PARCEL	LEGAL DESCRIPTION	TYPE
107	Woodland Park Addition, Block J, Lot 10J & South 1/2 of 9J Plat P-61B	TCP
106A	Woodland Park Addition, Block J, Lot 8J & North 1/2 of 9J Plat P-61B	TCP
106B	Woodland Park Addition, Block J, Lot 8J & North 1/2 of 9J Plat P-61B	TCE
105A	Woodland Park Addition, Block J, Lot 7J Plat P-61B	TCE
105B	Woodland Park Addition, Block J, Lot 7J Plat P-61B	TCP
104	Woodland Park Addition, Block J, Lot 6J Plat P-61B	TCP
103	Woodland Park Addition, Block J, Lot 5J Plat P-61B	TCP
102	Woodland Park Addition, Block J, Lot 4J Plat P-61B	TCP
101	Woodland Park Addition, Block J, Lot 3J Plat P-61B	TCP
100	Woodland Park Addition, Block 1, Lot 11 Remainder Plat P-61B	TCE
124B	Minnesota Commons Subdivision, Block 3B Plat 72-152	TCP
125	PTN NW4 SEC 25, T13N, R4W, S.M. Deed: Bk 3400 Pg 80	TCP

LEGEND

(1) Parcel Number

Temporary Construction Permit (TCP) or Intragovernmental Temporary Construction Permit (ITCP)

Temporary Construction Easement (TCE)

Temporary Construction Permits (TCP) & Intergovernmental Temporary Construction Permits (ITCP) are dimensioned on this sheet. Temporary Construction Easements (TCE) are dimensioned on a Separate Parcel Map Exhibit.

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

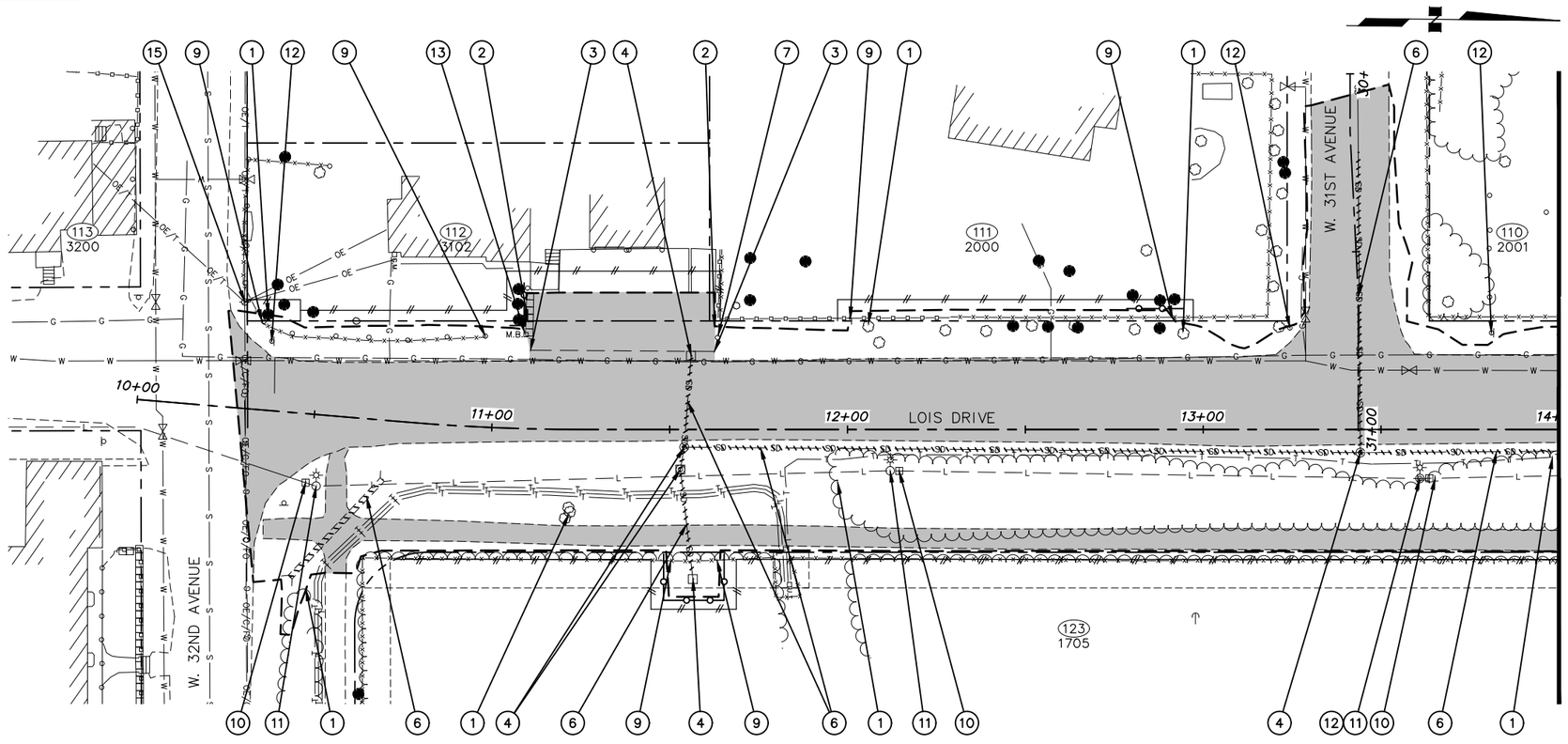
19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE ALL

TEMPORARY EASEMENT & PERMIT MAP

STA 15+50 TO EOP

SCALE HOR. 1"=20' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET V3 of V3

File: \\crweng.com\Projects\Jobsdata\10145.00 Lois Drive And W 32nd Ave Pathway\00 Cadd 2019\01 Working Set\02 Survey\04 Easements\10145.00 Temporary Easement & Permit Map.dwg



LEGEND

(1) *CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TREE PROTECTION ZONE FENCES (SECTION 75.14) 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.*

(2) *REMOVE SIDEWALK OR APRON (SECTION 20.07).*

(3) *REMOVE P.C.C. CURB AND GUTTER (SECTION 20.08).*

(4) *REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).*

(6) *REMOVE PIPE (SECTION 70.07).*

(7) *REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (SECTION 70.08).*

(9) *REMOVE AND RESET FENCE (SECTION 75.16).*

(10) *REMOVE JUNCTION BOX (SECTION 80.08).*

(11) *REMOVE LUMINAIRE POLE (SECTION 80.28).*

(12) *REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 85.04).*

(13) *RELOCATE MAILBOX (SECTION 85.09).*

(15) *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 (SECTION 70.07).

TREE PROTECTION ZONE FENCING (SECTION 75.14) LOCATIONS TO BE FIELD VERIFIED, SEE MASS DETAIL 75–10.

NOTES:

1. *SEE SUMMARY TABLE SHEETS B4–B6 FOR STATION AND OFFSET OF DEMOLITION ITEMS.*
2. *SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.*

RECORD DRAWING

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

PLAN CHECK

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

GRAPHIC SCALE 40 20 0 20 40

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
3840	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19–08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

DEMOLITION PLAN

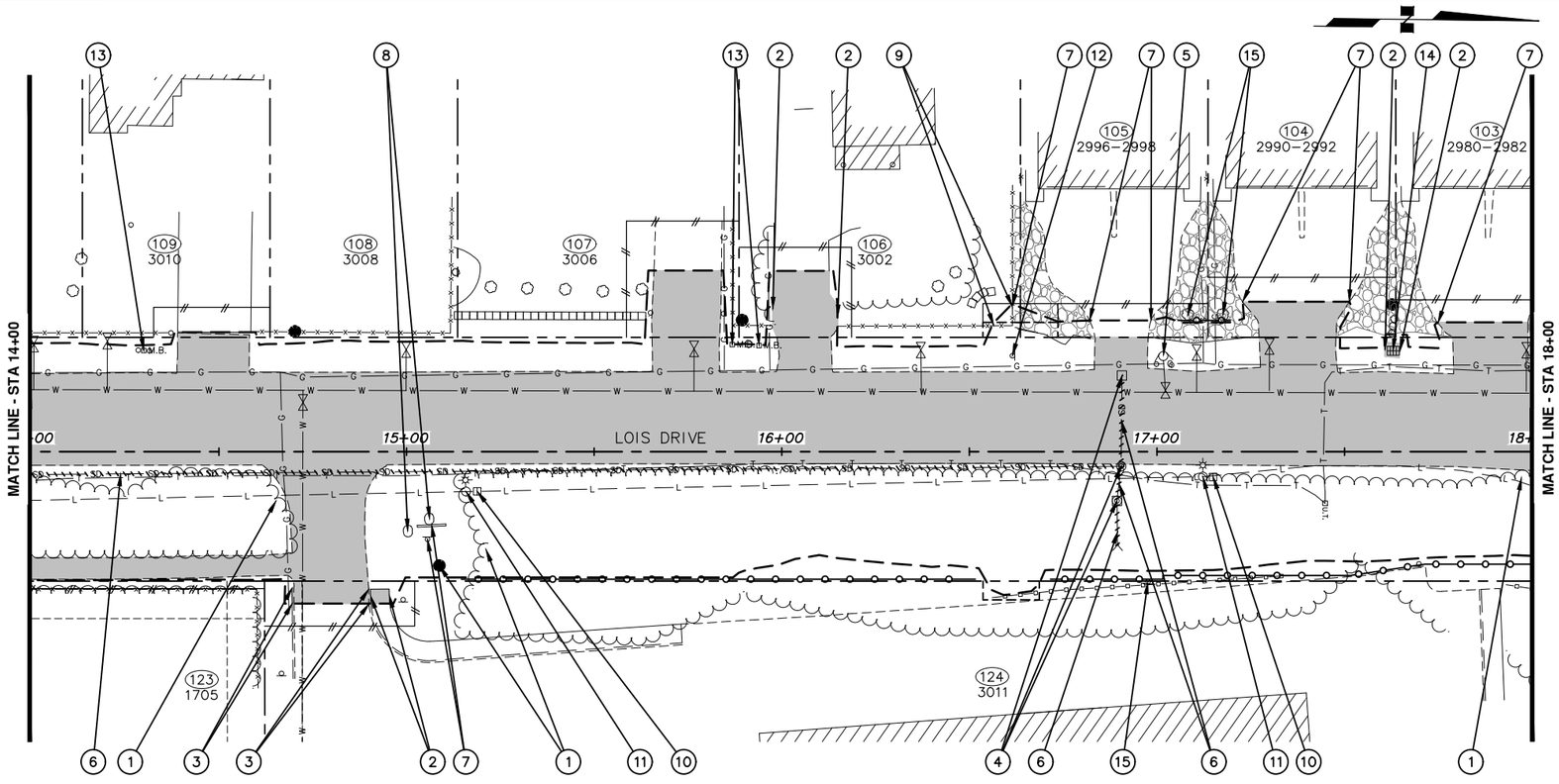
BOP TO STA 14+00

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

GRID SW1628
DATE MAR 2025
STATUS 65%

SHEET B1 of B6

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Demolition Plan.dwg



LEGEND

1. *CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TREE PROTECTION ZONE FENCES (SECTION 75.14) 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.*
2. *REMOVE SIDEWALK OR APRON (SECTION 20.07).*
3. *REMOVE P.C.C. CURB AND GUTTER (SECTION 20.08).*
4. *REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).*
5. *DECOMMISSION FIRE HYDRANT ASSEMBLY (SINGLE PUMPER) (SECTION 60.08)*
6. *REMOVE PIPE (SECTION 70.07).*
7. *REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (SECTION 70.08).*
8. *SALVAGE AND RELOCATE OR DISPOSE EXISTING BOULDER AS DIRECTED BY ENGINEER IN THE FIELD (SECTION 75.12).*
9. *REMOVE AND RESET FENCE (SECTION 75.16).*
10. *REMOVE JUNCTION BOX (SECTION 80.08).*
11. *REMOVE LUMINAIRE POLE (SECTION 80.28).*
12. *REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 85.04).*
13. *RELOCATE MAILBOX (SECTION 85.09).*
14. *RELOCATE CLUSTER MAILBOX (SECTION 85.09).*
15. *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 (SECTION 70.07).

TREE PROTECTION ZONE FENCING (SECTION 75.14)
LOCATIONS TO BE FIELD VERIFIED, SEE MASS DETAIL 75–10.

NOTES:
1. *SEE SUMMARY TABLE SHEETS B4–B6 FOR STATION AND OFFSET OF DEMOLITION ITEMS.*
2. *SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.*

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

PLAN CHECK

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

GRAPHIC SCALE 40 20 0 20 40

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
3840	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

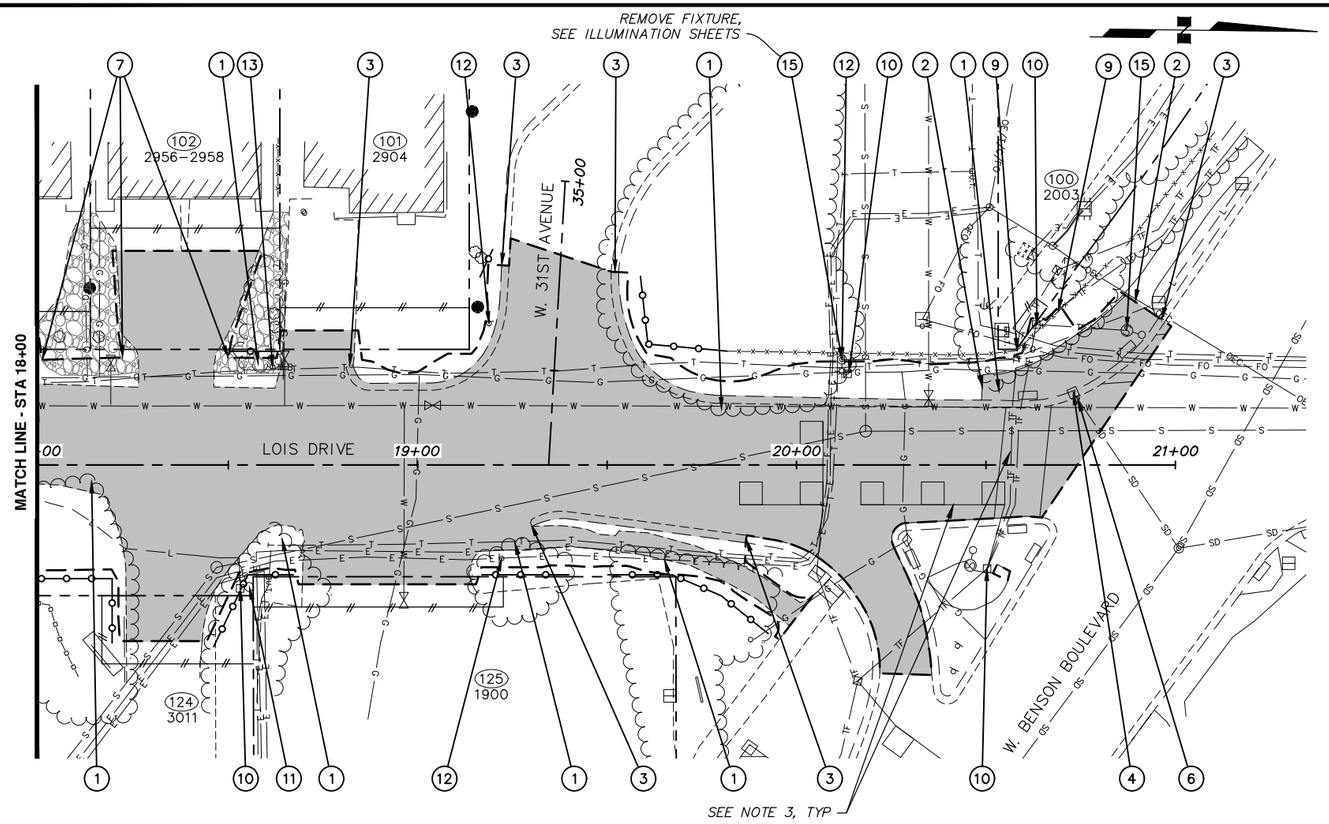
19–08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

DEMOLITION PLAN

STA 14+00 TO STA 18+00

SCALE HOR. 1"=20'
VER. N/A
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET B2 of B6

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Demolition Plan.dwg



LEGEND

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(2) REMOVE SIDEWALK OR APRON (SECTION 20.07).

(3) REMOVE P.C.C. CURB AND GUTTER (SECTION 20.08).

(4) REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).

(6) REMOVE PIPE (SECTION 70.07).

(7) REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (SECTION 70.08).

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(10) REMOVE JUNCTION BOX (SECTION 80.08).

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(12) REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 85.04).

(13) RELOCATE MAILBOX (SECTION 85.09).

(15) 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 (SECTION 70.07).

TREE PROTECTION ZONE FENCING (SECTION 75.14)
LOCATIONS TO BE FIELD VERIFIED, SEE MASS DETAIL 75–10.

NOTES:

1. SEE SUMMARY TABLE SHEETS B4–B6 FOR STATION AND OFFSET OF DEMOLITION ITEMS.
2. SEE ROADWAY IMPROVEMENTS (R) SHEETS FOR DRIVEWAY RECONSTRUCTION LIMITS.
3. REMOVE EXISTING TRAFFIC LOOPS WITHIN LIMITS OF EXCAVATION PER SECTION 80.28. SEE SIGNAL (J) SHEETS FOR DEMOLITION OF TRAFFIC SIGNAL ITEMS.

RECORD DRAWING

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

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

GRAPHIC SCALE 40 20 0 20 40

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
3840	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REVISIONS

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CONSULTANT

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19–08 LOIS DRIVE RECONSTRUCTION ALL
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DEMOLITION PLAN

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SHEET B3 of B6

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20.07

REMOVE P.C.C. SIDEWALK OR APRON ②

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	AREA (SY)	REMARKS
B1	11+09.5	32.2 LT	11+62.7	30.2 LT	95	PARCEL 112 DRIVEWAY, WALKWAY & RETAINING WALL
B2	14+90.4	38.6 RT	14+95.4	38.4 RT	2	PARCEL 124 SIDEWALK
B2	15+97.6	40.0 LT	16+14.9	39.1 LT	30	PARCEL 106 DRIVEWAY
B2	17+61.1	27.1 LT	17+65.1	27.1 LT	2	CLUSTER MAILBOX BASE
B3	20+49.0	20.5 LT	20+91.0	42.0 LT	58	LOIS DRIVE SIDEWALK

20.08

REMOVE P.C.C. CURB AND GUTTER ③

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	LENGTH (FT)	REMARKS
B1	11+10.3	22.1 LT	11+62.6	21.9 LT	52	LOIS DRIVE
B2	14+69.5	36.4 RT	14+69.5	40.5 RT	4	PARCEL 124 DRIVEWAY
B2	14+90.4	36.7 RT	14+90.5	40.5 RT	4	PARCEL 124 DRIVEWAY
B3	18+82.9	26.2 LT	19+22.2	52.7 LT	64	LOIS DRIVE
B3	19+30.6	16.0 RT	19+86.6	20.5 RT	57	LOIS DRIVE
B3	19+53.1	50.9 LT	20+95.6	38.9 LT	171	LOIS DRIVE

20.09

REMOVE A.C.P.

SHEET	STATION TO STATION	OFFSET	AREA (SY)	REMARKS
B1	BOP TO 14+00.0	LT & RT	1,462	LOIS DRIVE, PATHWAY, WEST 31ST AVENUE & DRIVEWAYS
B2	14+00.0 TO 18+00.0	LT & RT	1,415	LOIS DRIVE, PATHWAY & DRIVEWAYS
B3	18+00.0 TO EOP	LT & RT	1,615	LOIS DRIVE, PATHWAY, WEST 29TH AVENUE & DRIVEWAYS

REMOVE A.C.P. NOTES:

1. *SEE ROADWAY IMPROVEMENT SHEETS FOR ROADWAY PAVEMENT REMOVAL LIMITS.*
2. *SEE DRIVEWAY RECONSTRUCTION TABLE ON SHEET T1 FOR DRIVEWAY PAVEMENT REMOVAL LIMITS.*

55.11

REMOVE MANHOLE OR CATCH BASIN ④

SHEET	APPX STATION	APPX OFFSET (FT)	CATCH BASIN	MANHOLE	REMARKS
B1	11+53.0	11.2 RT		X	
B1	11+54.1	5.0 RT		X	
B1	11+56.1	20.7 LT	X		
B1	11+56.5	42.0 RT	X		
B1	13+44.2	6.5 RT		X	
B2	16+89.3	13.1 RT		X	
B2	16+90.5	3.9 RT		X	
B2	16+90.7	20.3 LT	X		
B3	20+73.1	19.1 LT	X		

60.08

DECOMMISSION FIRE HYDRANT ASSEMBLY (SINGLE PUMPER) ⑤

SHEET	STATION	OFFSET (FT)	REMARKS
B2	17+01.7	25.5 LT	COORDINATE WITH AWWU FOR WATER MAIN SHUTDOWN

70.07

REMOVE PIPE ⑥

SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	SIZE (INCH)	LENGTH (FT)	REMARKS
B1	10+47.0	46.1 RT	10+70.5	16.7 RT	18	38	PATHWAY CULVERT
B1	11+53.0	11.2 RT	11+54.1	5.0 RT	10	6	STORM DRAIN – LOIS DRIVE
B1	11+53.0	11.2 RT	11+56.5	42.0 RT	10	31	STORM DRAIN – LOIS DRIVE
B1	11+54.1	5.0 RT	11+56.1	20.7 LT	10	26	STORM DRAIN – LOIS DRIVE
B1	11+54.1	5.0 RT	13+44.2	6.5 RT	12	190	STORM DRAIN – LOIS DRIVE
B1	13+44.2	6.5 RT	13+43.6	77.9 LT	15	84	STORM DRAIN – W. 31ST AVENUE
B1/B2	13+44.2	6.5 RT	16+90.5	3.9 RT	12	346	STORM DRAIN – LOIS DRIVE
B2	16+90.5	3.9 RT	16+89.3	13.1 RT	10	9	STORM DRAIN – LOIS DRIVE
B2	16+90.5	3.9 RT	16+90.7	20.3 LT	10	24	STORM DRAIN – LOIS DRIVE
B2	16+89.3	13.1 RT	16+89.5	24.8 RT	10	12	STORM DRAIN – LOIS DRIVE
B3	20+73.1	19.1 LT	20+74.3	17.3 LT	12	2	STORM DRAIN – LOIS DRIVE

RECORD DRAWING

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PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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19-08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

DEMOLITION SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET B4 of B6

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Demolition Plan.dwg

70.08

REMOVAL/DISPOSAL AND/OR SALVAGE/INSTALLATION OF OBSTRUCTIONS (7)

SHEET	APPX STATION	APPX OFFSET (FT)	OBSTRUCTION ITEM	QUANTITY	ACTION	REMARKS
B1	11+63.4	25.8 LT	METAL POST	1 EA	DISPOSE OF	
B2	15+05.6	23.4 RT	SIGN	1 EA	REMOVE AND REINSTALL ON PROPERTY	
B2	15+06.7	19.4 RT	SIGN	1 EA	REMOVE AND REINSTALL ON PROPERTY	
B2	16+72.8	30.7 LT	LANDSCAPING ROCKS	97 SF	RESET BEHIND PROPOSED SIDEWALK	
B2	17+06.7	29.7 LT	LANDSCAPING ROCKS	88 SF	RESET BEHIND PROPOSED SIDEWALK	
B2	17+20.4	30.1 LT	LANDSCAPING ROCKS	76 SF	RESET BEHIND PROPOSED SIDEWALK	
B3	18+09.2	23.5 LT	LANDSCAPING ROCKS	51 SF	RESET BEHIND PROPOSED SIDEWALK	
B3	18+18.0	23.7 LT	LANDSCAPING ROCKS	94 SF	RESET BEHIND PROPOSED SIDEWALK	
B3	18+55.6	24.1 LT	LANDSCAPING ROCKS	120 SF	RESET BEHIND PROPOSED SIDEWALK	

75.12

SALVAGE AND RELOCATE OR DISPOSE EXISTING BOULDER (8)

SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B2	15+00.4	21.2 RT	
B2	15+06.0	18.0 RT	

75.16

REMOVE AND RESET FENCE (9)

SHEET	EXISTING LOCATION					PROPOSED LOCATION					REMARKS
	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)	
B1	10+33.1	24.9 LT	10+96.9	25.3 LT	62.1	10+33.1	24.9 LT	10+96.7	29.8 LT	62.8	WOOD BOLLARD AND CHAIN
B1	11+47.5	36.8 RT	11+64.9	36.6 RT	17.4	11+47.5	36.8 RT	11+64.9	36.6 RT	17.4	CHAINLINK FENCE
B1	12+01.2	31.3 LT	12+28.6	31.4 LT	27.5	12+01.2	31.3 LT	12+28.6	31.4 LT	27.5	WOOD FENCE
B1	12+29.2	31.7 LT	12+89.8	31.5 LT	60.8	12+28.6	31.7 LT	12+89.8	31.5 LT	60.8	CHAINLINK FENCE
B2	16+56.5	33.6 LT	16+61.5	33.6 LT	5.0	16+56.5	33.6 LT	16+61.5	33.6 LT	5.0	CHAINLINK FENCE
B2	16+61.5	33.6 LT	16+61.5	38.6 LT	10.0	16+61.5	33.6 LT	16+61.5	38.6 LT	5.0	CHAINLINK FENCE
B3	20+58.2	30.2 LT	20+69.1	40.6 LT	10.0	20+58.2	30.2 LT	20+69.1	40.6 LT	15.0	CHAINLINK FENCE

REMOVE AND RESET FENCE NOTES:

1. *PROVIDE TEMPORARY FENCING PER SECTION 75.18 FOR 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 75.16 PAY ITEM.*

80.08

REMOVE JUNCTION BOX (10)

SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B1	10+49.1	19.4 RT	
B1	12+14.6	11.6 RT	
B1	13+65.1	13.7 RT	
B2	15+18.8	10.6 RT	
B2	17+14.9	6.8 RT	
B3	18+53.2	32.6 RT	
B4	20+13.5	24.1 LT	
B3	20+16.1	57.0 RT	
B3	20+63.3	37.1 LT	

80.28

REMOVE LUMINAIRE POLE (11)

SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B1	10+52.1	20.0 RT	
B1	12+12.0	11.6 RT	
B1	13+60.9	13.8 RT	
B2	15+15.8	10.6 RT	
B2	17+12.2	6.7 RT	
B3	18+55.5	32.2 RT	

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

SEAL

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

DEMOLITION SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET B5 of B6

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Demolition Plan.dwg

85.04

REMOVE AND SALVAGE SIGN (12)

SHEET NO.	APPROX STATION	APPROX OFFSET	SIGN TYPE	LEGEND	SIGN POST
B1	10+36.3	19.5 LT	R1-1	STOP	PERFORATED STEEL TUBE
B1	13+24.4	28.5 LT	D3-101	LOIS DRIVE 3100	PERFORATED STEEL TUBE
			D3-101	W 31ST AVE 2000	
			R1-1	STOP	
B1	13+60.9	13.8 RT	R2-1	SPEED LIMIT	STREET LIGHT POLE
			S5-2	END SCHOOL ZONE	
B1	13+81.0	27.2 LT	S1-1	SCHOOL (SYMBOL)	PERFORATED STEEL TUBE
			S6-100	DRUG FREE SCHOOL ZONE	
B2	16+61.4	25.6 LT	R2-1	SPEED LIMIT	PERFORATED STEEL PIPE
B3	19+18.8	37.3 LT	D3-101	LOIS DRIVE 2900	PERFORATED STEEL TUBE
			D3-101	W 29TH AVE 2000	
			R1-1	STOP	
B3	19+22.1	24.8 RT	W1-1	TURN	PERFORATED STEEL TUBE
			W13-1	ADVISORY SPEED (PLAQUE)	

REMOVE AND SALVAGE SIGN NOTES:

1. *WORK TO REMOVE AND SALVAGE EXISTING SIGNS & POSTS SHALL BE INCIDENTAL TO SECTION 85.04 STANDARD SIGN PAY ITEM.*
2. *CONTRACTOR SHALL DELIVER REMOVED SIGN FACES AND ASSOCIATED HARDWARE TO THE MUNICIPAL PAINT AND SIGN SHOP. CONTACT 907-343-4384 TO COORDINATE DELIVERY. DELIVERY OF EXISTING SIGNS IS INCIDENTAL TO SECTION 85.04 STANDARD SIGN PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.*

85.09

RELOCATE MAILBOX (13)

	EXISTING LOCATION		NEW LOCATION		
SHEET	APPX STATION	APPX OFFSET (FT)	APPX STATION	APPX OFFSET (FT)	REMARKS
B1	11+08.8	26.4 LT	11+67.9	14.0 LT	2 MAILBOXES
B2	14+30.0	26.9 LT	14+65.8	17.5 LT	
B2	15+86.8	28.6 LT	15+90.1	17.5 LT	
B2	15+93.9	28.3 LT	16+21.7	17.5 LT	
B3	18+61.7	25.8 LT	18+91.7	17.5 LT	

RELOCATE MAILBOX NOTES:

1. *SEE SHEET D5 FOR MAILBOX INSTALLATION DETAILS.*

85.09

RELOCATE CLUSTER MAILBOX (14)

	EXISTING LOCATION		NEW LOCATION		
SHEET	APPX STATION	APPX OFFSET (FT)	APPX STATION	APPX OFFSET (FT)	REMARKS
B2	17+62.9	27.1 LT	17+63.6	28.5 LT	

RELOCATE CLUSTER MAILBOX NOTES:

1. *SEE SHEET D5 FOR CLUSTER MAILBOX INSTALLATION DETAILS.*

75.14

TREE PROTECTION ZONE FENCING

SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
B1	11+04.0	28.8 LT	11+08.2	29.0 LT	4.0	
B1	11+08.2	29.0 LT	11+07.8	41.0 LT	12.0	
B1	11+48.3	35.0 RT	11+48.3	48.0 RT	13.0	
B1	11+48.3	48.0 RT	11+65.3	48.0 RT	17.0	
B1	11+65.3	48.0 RT	11+65.3	35.0 RT	13.0	
B1	12+78.5	34.0 LT	12+94.5	34.0 LT	16.0	
B2	15+14.6	34.0 RT	16+51.6	34.0 RT	137.0	
B2	16+71.6	34.0 RT	17+01.6	34.0 RT	30.0	
B2	17+01.6	34.0 RT	17+01.6	33.0 RT	1.0	
B2	17+01.6	33.0 RT	17+51.6	33.0 RT	50.0	
B2	17+05.6	35.0 LT	17+19.6	35.0 LT	14.0	
B2	17+51.6	33.0 RT	17+71.4	30.0 RT	20.0	
B2/B3	17+71.4	30.0 RT	18+19.4	30.0 RT	48.0	
B3	18+19.4	30.0 RT	18+19.4	47.0 RT	17.0	
B3	18+46.2	48.0 RT	18+55.2	29.0 RT	21.0	
B3	18+50.6	30.0 LT	18+63.6	30.0 LT	13.0	
B3	18+55.2	29.0 RT	18+67.2	29.0 RT	12.0	
B3	19+16.5	49.7 LT	19+19.8	56.9 LT	8.0	
B3	19+16.9	29.0 RT	19+39.9	29.0 RT	23.0	
B3	19+50.2	29.0 RT	19+67.2	29.0 RT	17.0	
B3	19+58.8	49.8 LT	19+60.8	31.9 LT	18.0	
B3	19+60.8	31.9 LT	19+81.7	30.0 LT	21.0	
B3	19+67.2	29.0 RT	19+80.1	34.5 RT	14.0	
B3	19+80.1	34.5 RT	19+92.5	44.5 RT	16.0	

TREE PROTECTION ZONE FENCING NOTE:

1. *ROOT PRUNING IS NECESSARY ALONG THE TREE PROTECTION ZONE FENCING PER MASS AND IN OTHER LOCATIONS AS DIRECTED BY THE ENGINEER.*

RECORD DRAWING

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

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
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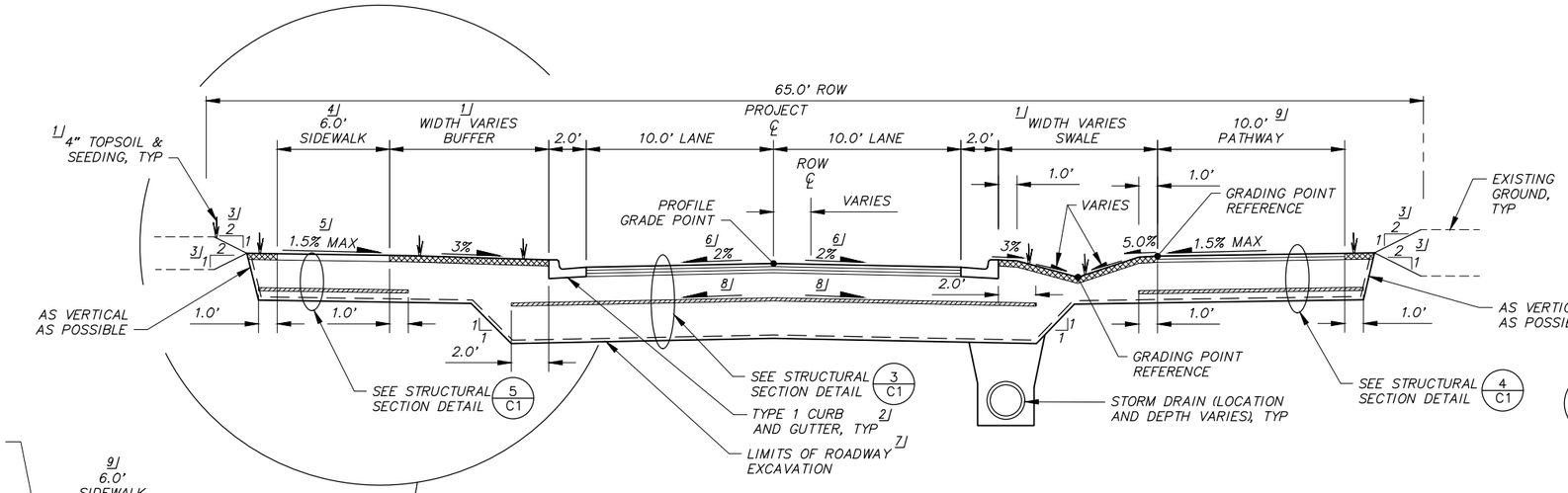
19-08 LOIS DRIVE RECONSTRUCTION ALL
BENSON BOULEVARD TO 32ND AVENUE

DEMOLITION SUMMARY TABLES

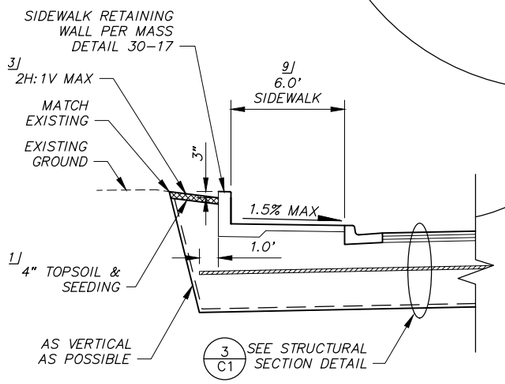
SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET B6 of B6

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Demolition Plan.dwg



1 TYPICAL SECTION "A" - LOIS DRIVE NECKDOWN

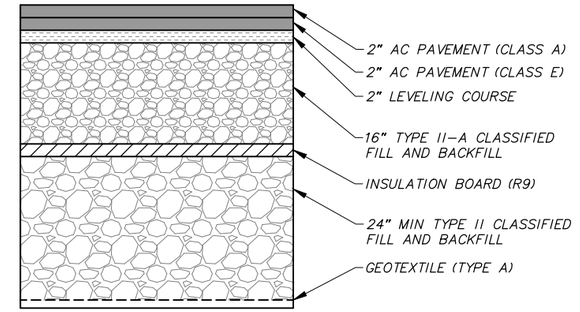
SEE NOTE 1



2 TYPICAL SECTION "A1" - LOIS DRIVE

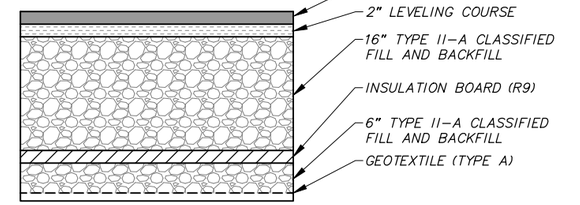
SEE NOTE 1

TYPICAL SECTION TABLE – LOIS DRIVE			
FROM STA	TO STA	TYPICAL SECTION	
		LEFT	RIGHT
BOP	10+55	A1	A
10+55	11+76	A	A
11+76	12+06	B	B
12+06	12+90	B1	B
12+90	13+03	B	B
13+03	13+84	B2	B
13+84	14+55	B	B
14+55	15+05	B	B3
15+05	16+00	B	B
16+00	18+83	B	B3
18+83	19+51	B2	B3
19+51	19+87	B2	B4
19+87	20+04	C	C
20+04	EOP	C	C1



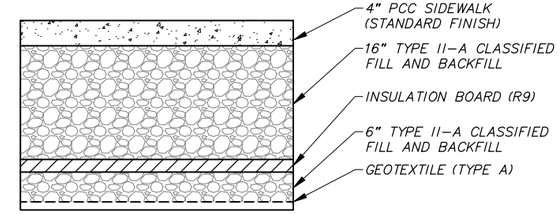
3 TYPICAL STRUCTURAL SECTION

LOIS DRIVE



4 TYPICAL STRUCTURAL SECTION

SEPARATED PATHWAY



5 TYPICAL STRUCTURAL SECTION

SEPARATED SIDEWALK

SHEET NOTES:

1. *SEE TYPICAL SECTION SUMMARY TABLE, THIS SHEET, FOR STATION RANGES. THE STATION RANGES ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.*

#/ FOOT NOTES:

1. *PLACE 4" OF TOPSOIL AND SEEDING PER LANDSCAPING (L) SHEETS ON ALL DISTURBED AREAS.*
2. *TOP AC PAVEMENT SHALL BE 1/8" – 1/4" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 4, SHEET C4.*
3. *TYPICAL FILL SLOPES ARE 2 (HORIZONTAL) : 1 (VERTICAL). FILL SLOPES MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY, SEE DETAIL 2, SHEET C4. THE ENGINEER MAY ADJUST THE TYPICAL SLOPES IN THE FIELD.*
4. *INCREASE SIDEWALK THICKNESS TO 6" ACROSS ALL DRIVEWAYS & ADD WELDED STEEL WIRE REINFORCEMENT PER THE SPECIFICATIONS.*
5. *THE MAXIMUM SIDEWALK GRADE IS 2% AT DRIVEWAYS. SIDEWALK GRADE SHALL BE 1% MINIMUM IN ALL CASES.*
6. *ROADWAY CROSS SLOPE SHALL BE 2% UNLESS OTHERWISE NOTED. CROSS SLOPE VARIES IN SOME AREAS AND ON SIDE STREETS, SEE INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.*
7. *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.*
8. *INSULATION SLOPE SHALL MATCH ROADWAY CROSS SLOPE.*
9. *SIDEWALK/PATHWAY WIDTH VARIES AT TRANSITION TO/FROM BUFFER PER DETAIL 3 ON SHEET D4.*

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GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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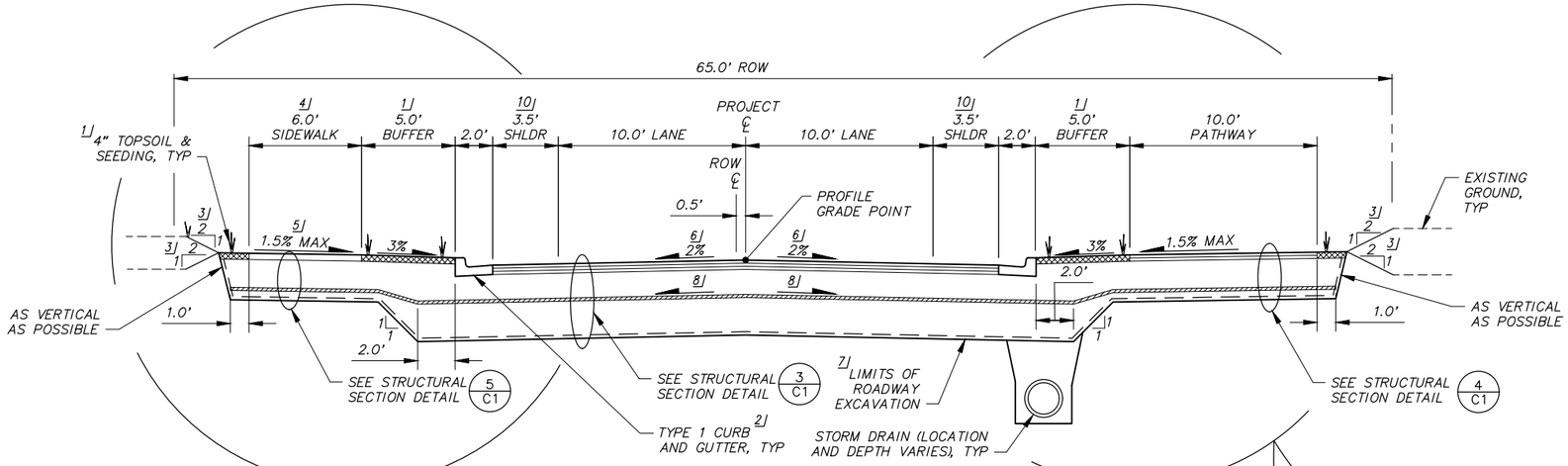
19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED A

TYPICAL SECTIONS

LOIS DRIVE

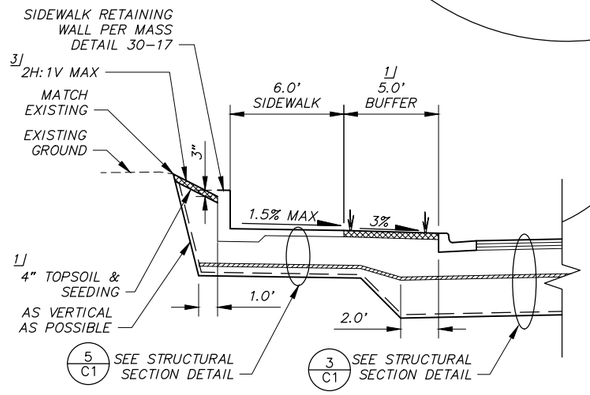
SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET C1 of C4

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Typical Sections.dwg



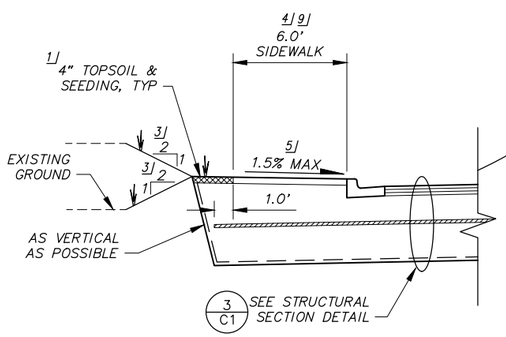
1 TYPICAL SECTION "B" - LOIS DRIVE

SEE NOTE 1



2 TYPICAL SECTION "B1" - LOIS DRIVE

SEE NOTE 1



3 TYPICAL SECTION "B2" - LOIS DRIVE

SEE NOTE 1

SHEET NOTES:

1. SEE TYPICAL SECTION SUMMARY TABLE, SHEET C1, FOR STATION RANGES. THE STATION RANGES ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.

#| FOOT NOTES:

1. PLACE 4" OF TOPSOIL AND SEEDING PER LANDSCAPING (L) SHEETS ON ALL DISTURBED AREAS.
2. TOP AC PAVEMENT SHALL BE 1/8" – 1/4" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 4, SHEET C4.
3. TYPICAL FILL SLOPES ARE 2 (HORIZONTAL) : 1 (VERTICAL). FILL SLOPES MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY, SEE DETAIL 2, SHEET C4. THE ENGINEER MAY ADJUST THE TYPICAL SLOPES IN THE FIELD.
4. INCREASE SIDEWALK THICKNESS TO 6" ACROSS ALL DRIVEWAYS & ADD WELDED STEEL WIRE REINFORCEMENT PER THE SPECIFICATIONS.
5. THE MAXIMUM SIDEWALK GRADE IS 2% AT DRIVEWAYS. SIDEWALK GRADE SHALL BE 1% MINIMUM IN ALL CASES.
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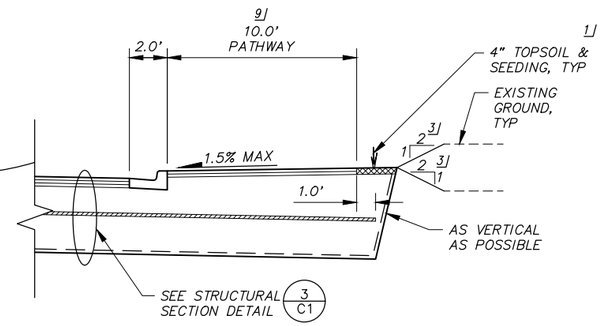
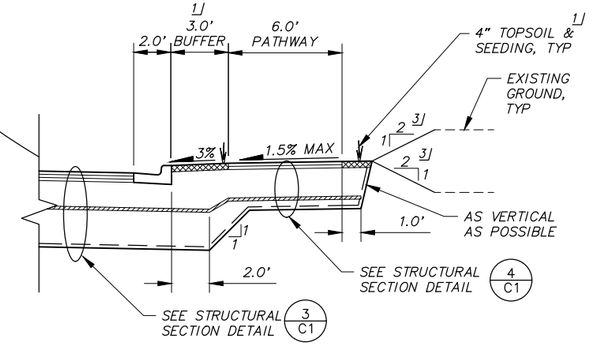
7. PRIOR TO PLACEMENT OF FILL, NATIVE MATERIAL SHALL BE SCARIFIED, PROOF-ROLLED AND COMPACTED AS DIRECTED BY ENGINEER. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
8. INSULATION SLOPE SHALL MATCH ROADWAY CROSS SLOPE.
9. SIDEWALK/PATHWAY WIDTH VARIES AT TRANSITION TO/FROM BUFFER PER DETAIL 3 ON SHEET D4.
10. SHOULDER WIDTH VARIES FOR TRANSITIONS BETWEEN TYPICAL SECTIONS SEE INTERSECTION LAYOUT SHEETS FOR CURB LAYOUT AND NECKDOWN TRANSITIONS.



4 TYPICAL SECTION "B3" - LOIS DRIVE

SEE NOTE 1



5 TYPICAL SECTION "B4" - LOIS DRIVE

SEE NOTE 1

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GAS	BB	BW
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DESIGN	RB	JK
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PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

TYPICAL SECTIONS

LOIS DRIVE

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET C2 of C4

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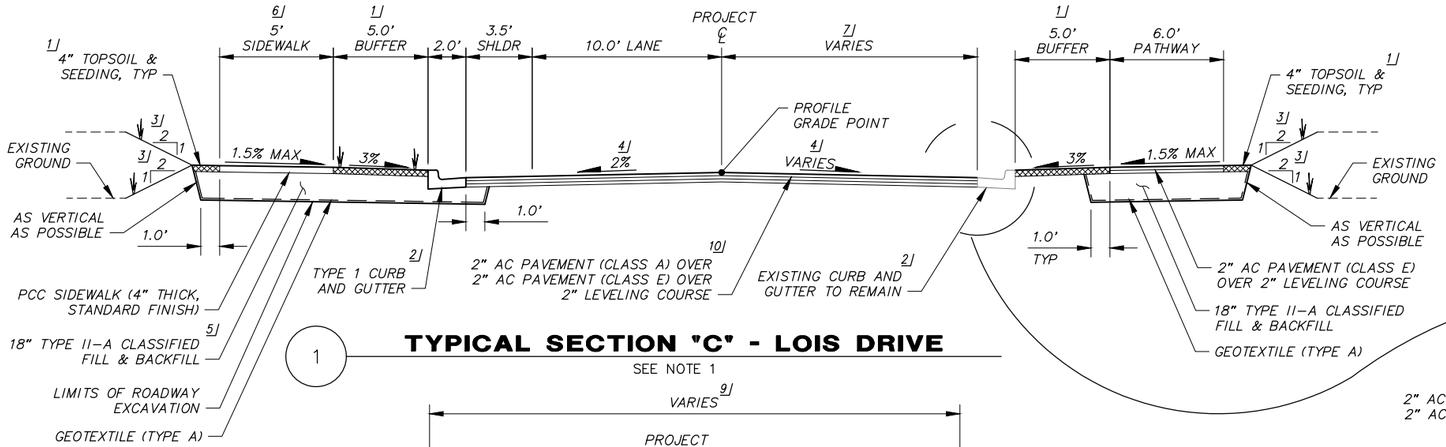
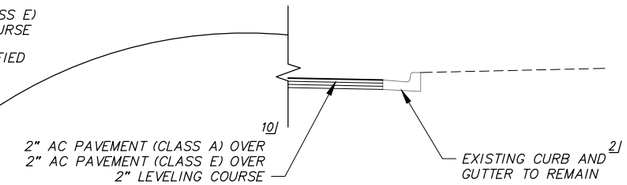


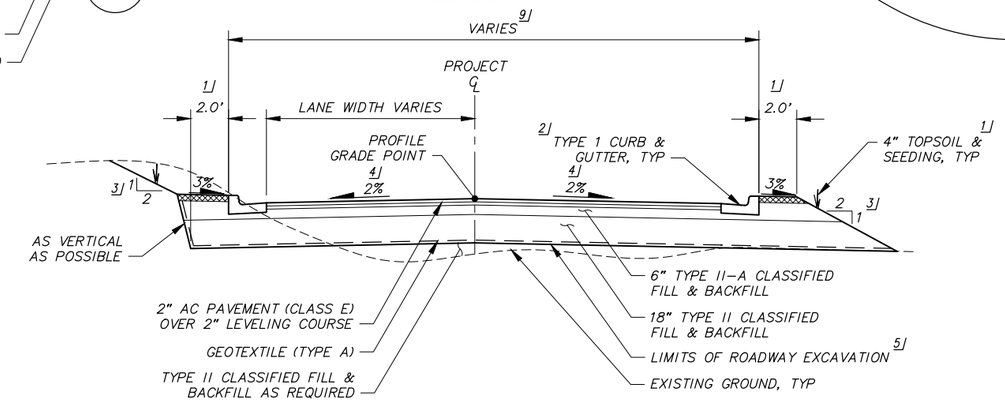
1 TYPICAL SECTION "C" - LOIS DRIVE

SEE NOTE 1



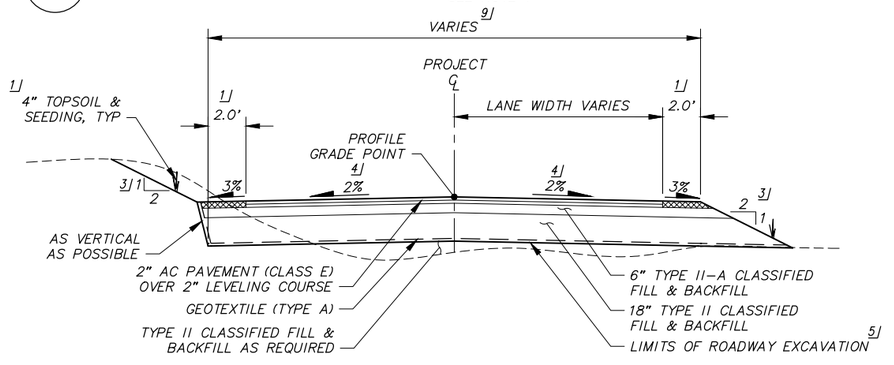
2 TYPICAL SECTION "C1" - LOIS DRIVE

SEE NOTE 1



3 TYPICAL SECTION "D" - SIDE STREETS WITH CURB 8/ (BEYOND CURB RETURN)

SEE NOTE 1



4 TYPICAL SECTION "E" - SIDE STREETS NO CURB 8/ (BEYOND CURB RETURN)

SEE NOTE 1

SHEET NOTES:

1. SEE TYPICAL SECTION SUMMARY TABLE, SHEET C1, & SIDE STREET TYPICAL SECTION SUMMARY, THIS SHEET, FOR STATION RANGES. THE STATION RANGES ARE APPROXIMATE AND MAY BE MODIFIED IN THE FIELD BY THE ENGINEER.

#/ FOOT NOTES:

1. PLACE 4" OF TOPSOIL AND SEEDING PER LANDSCAPING (L) SHEETS ON ALL DISTURBED AREAS.
2. TOP AC PAVEMENT SHALL BE 1/8" – 1/4" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 4, SHEET C4.
3. TYPICAL FILL SLOPES ARE 2 (HORIZONTAL) : 1 (VERTICAL). FILL SLOPES MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY, SEE DETAIL 2, SHEET C4. THE ENGINEER MAY ADJUST THE TYPICAL SLOPES IN THE FIELD.
4. ROADWAY CROSS SLOPE SHALL BE 2% UNLESS OTHERWISE NOTED. CROSS SLOPE VARIES IN SOME AREAS AND ON SIDE STREETS, SEE INTERSECTION LAYOUT SHEETS FOR MORE INFORMATION.
5. 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.
6. SIDEWALK/PATHWAY WIDTH VARIES AT TRANSITION TO/FROM BUFFER PER DETAIL 3 ON SHEET D4.
7. SHOULDER WIDTH VARIES FOR TRANSITIONS BETWEEN TYPICAL SECTIONS SEE INTERSECTION LAYOUT SHEETS FOR CURB LAYOUT AND NECKDOWN TRANSITIONS.
8. BEGIN TRANSITION FROM MAIN STREET TYPICAL SECTION TO SIDE STREET TYPICAL SECTION AT END OF SIDE STREET CURB RETURN & INSTALL INSULATION WITHIN SIDE STREET PER DETAIL 1 ON SHEET D4.
9. SEE ROADWAY PLAN & PROFILE SHEETS FOR SIDE STREET WIDTHS.
10. INSTALL 4" OF LEVELING COURSE WHERE PROPOSED DETECTOR LOOPS ARE INSTALLED.

TYPICAL SECTION TABLE – SIDE STREETS

SIDE STREET	FROM STA	TO STA	TYPICAL SECTION
WEST 31ST AVENUE	30+09	30+51	E
	30+51	BEGIN CURB RETURN	D
WEST 29TH AVENUE	35+23	BEGIN CURB RETURN	D

RECORD DRAWING

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

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

PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
BASIS OF THIS DATUM GAAB 1972 ADJUST		

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

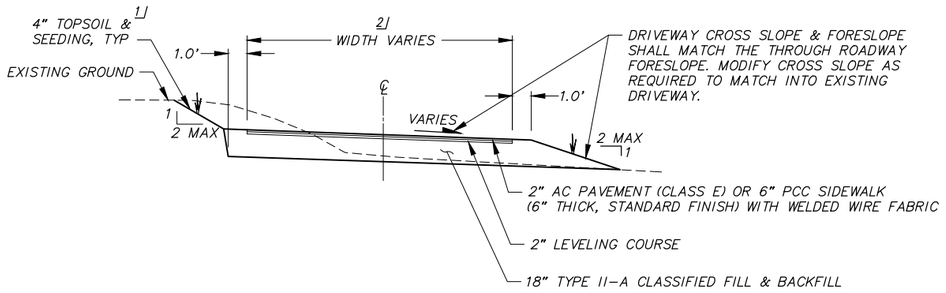
19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED A

TYPICAL SECTIONS

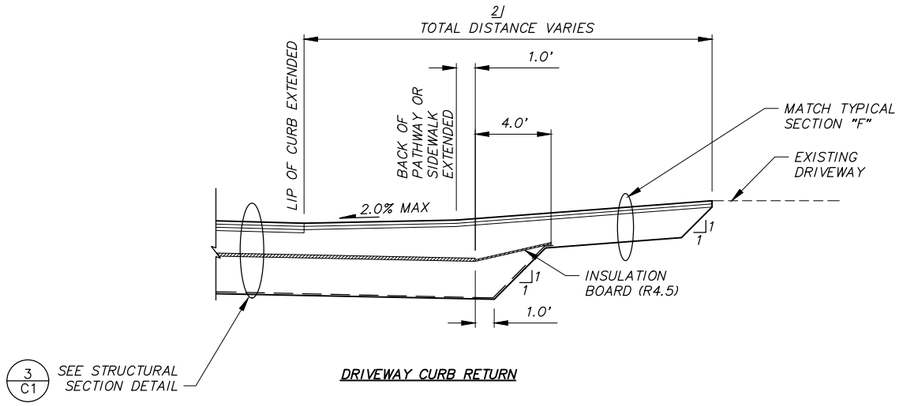
LOIS DRIVE & SIDE STREETS

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET C3 of C4

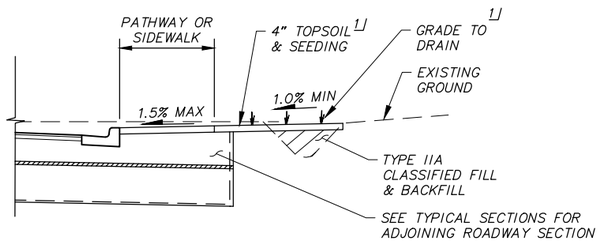
File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Typical Sections.dwg

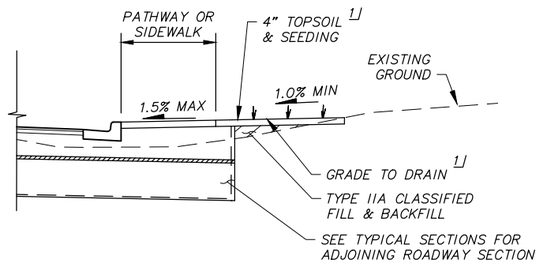


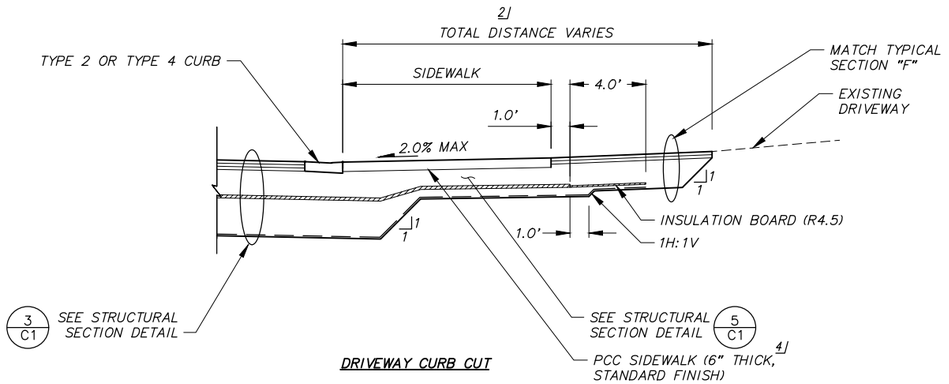
1 TYPICAL SECTION "F" DRIVEWAY PAVED OR CONCRETE 2/



DRIVEWAY CURB RETURN



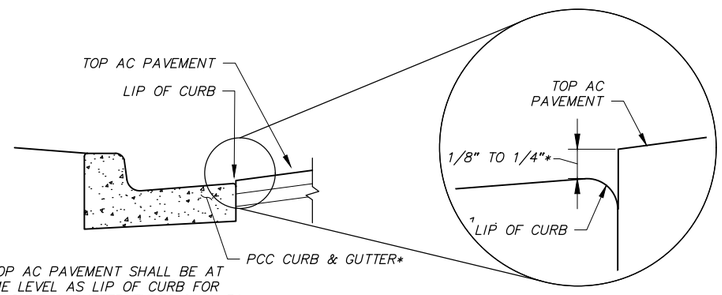




DRIVEWAY CURB CUT

2 SPECIAL FILL GRADING DETAILS 5/

3 TYPICAL DRIVEWAY CONNECTION SECTION



* TOP AC PAVEMENT SHALL BE AT SAME LEVEL AS LIP OF CURB FOR PCC CURB & GUTTER TYPES 1A & 3A.

4 CURB AND GUTTER & AC PAVEMENT EDGE DETAIL

SHEET NOTES:

1. SEE SHEETS C1-C3 FOR ADJOINING ROADWAY SECTION.

FOOT NOTES:

1. PLACE 4" OF TOPSOIL AND SEEDING PER LANDSCAPING (L) SHEETS ON ALL DISTURBED AREAS.
2. SEE RECONSTRUCT DRIVEWAY SUMMARY TABLE ON THE ROADWAY SUMMARY TABLE (T) SHEETS, DRIVEWAY RECONSTRUCTION PLANS & DRIVEWAY DETAILS FOR DRIVEWAY RECONSTRUCTION INFORMATION.
3. INSTALL INSULATION ADJACENT TO DRIVEWAY AND TRANSITION TO DRIVEWAY SECTION PER DETAIL 3, THIS SHEET.
4. ADD WELDED STEEL WIRE REINFORCEMENT TO ALL 6" SIDEWALKS PER THE SPECIFICATIONS.
5. SPECIAL FILL GRADING SHALL MATCH DETAILS PROVIDED WHEN PATHWAY/SIDEWALK IS DETACHED FROM CURB WITH A GRASS BUFFER.

RECORD DRAWING
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COMPANY: _____ DATE: _____
BY: _____

DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
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WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

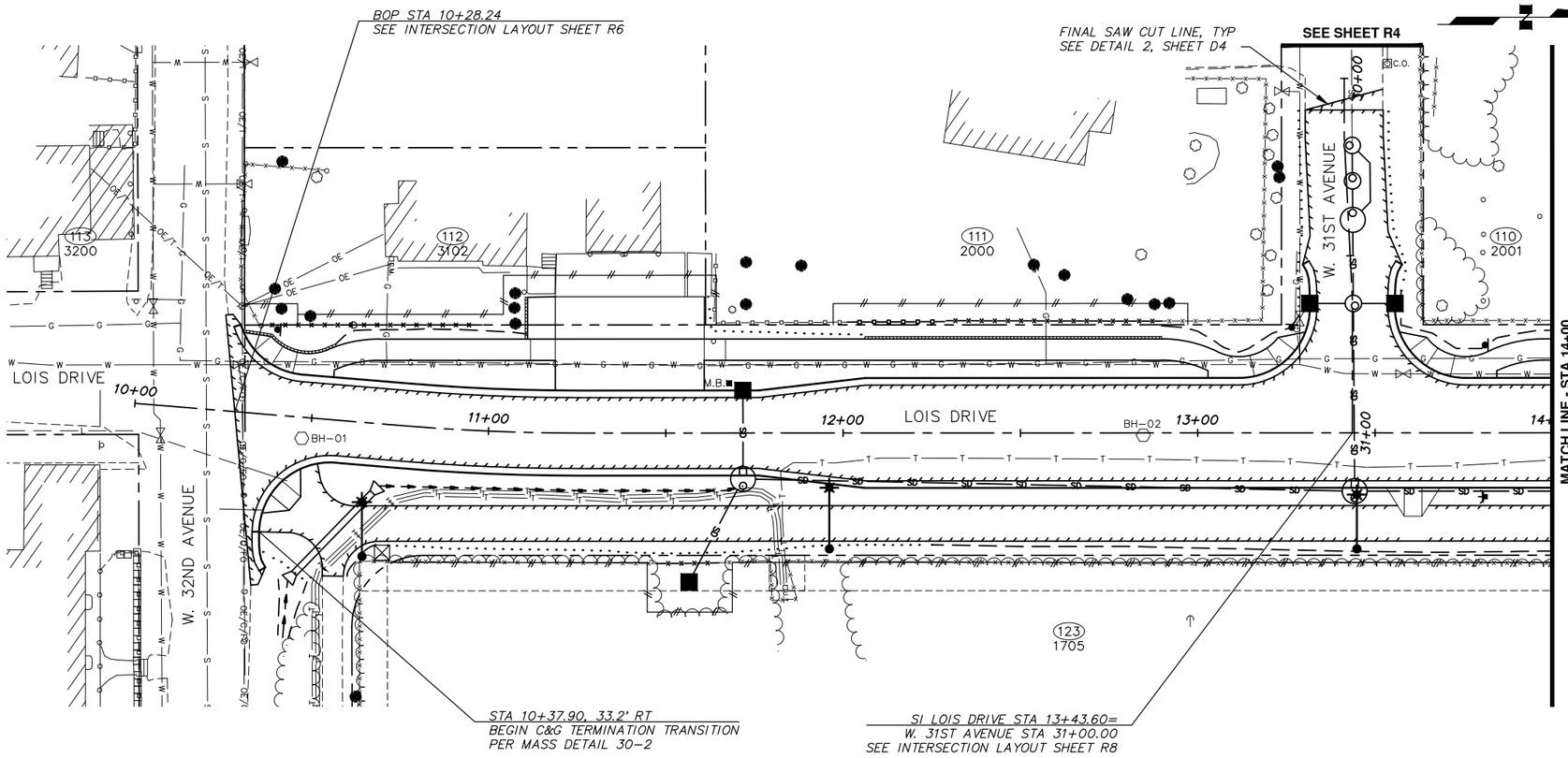
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

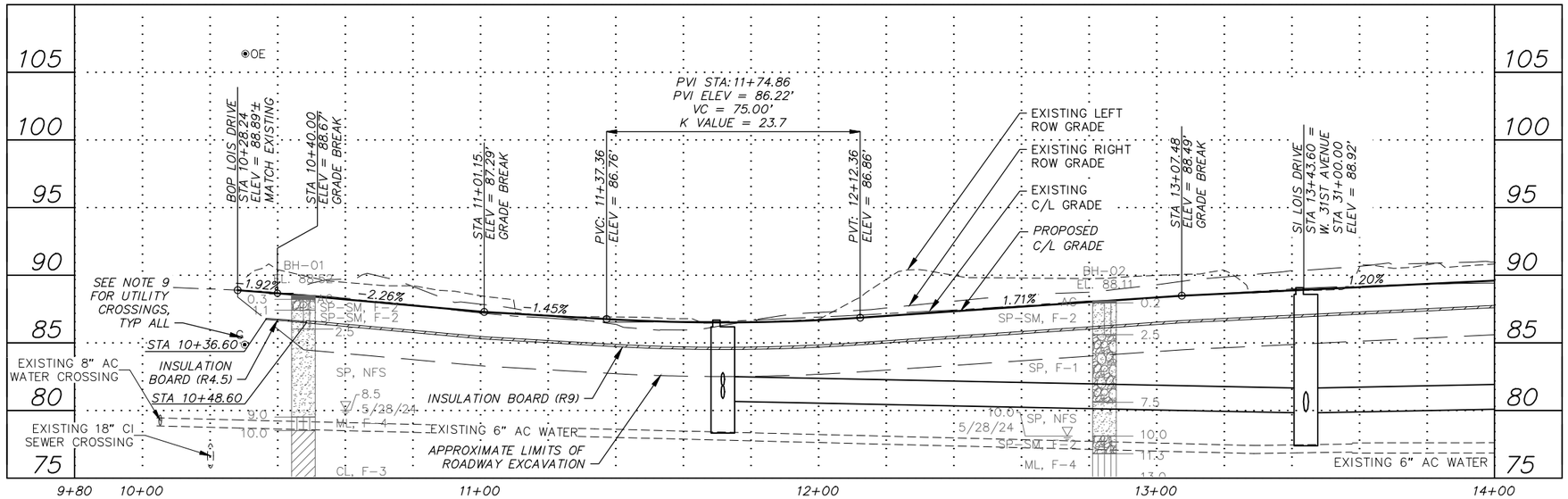
TYPICAL SECTIONS

DRIVEWAYS & MISCELLANEOUS DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET C4 of C4

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Typical Sections.dwg





NOTES:

1. *SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.*
2. *SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.*
3. *SEE TYPICAL SECTION (C) SHEETS FOR ROADWAY CROSS SECTIONS.*
4. *FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.*
5. *SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.*
6. *SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.*
7. *SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION & SIGNAL (J) SHEETS FOR SIGNAL INFORMATION.*
8. *THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.*
9. *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 OR AS NOTED. EXISTING UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS WILL BE RELOCATED BY OTHERS. SEE SPECIFICATIONS FOR MORE INFORMATION.*

RECORD DRAWING

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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
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TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

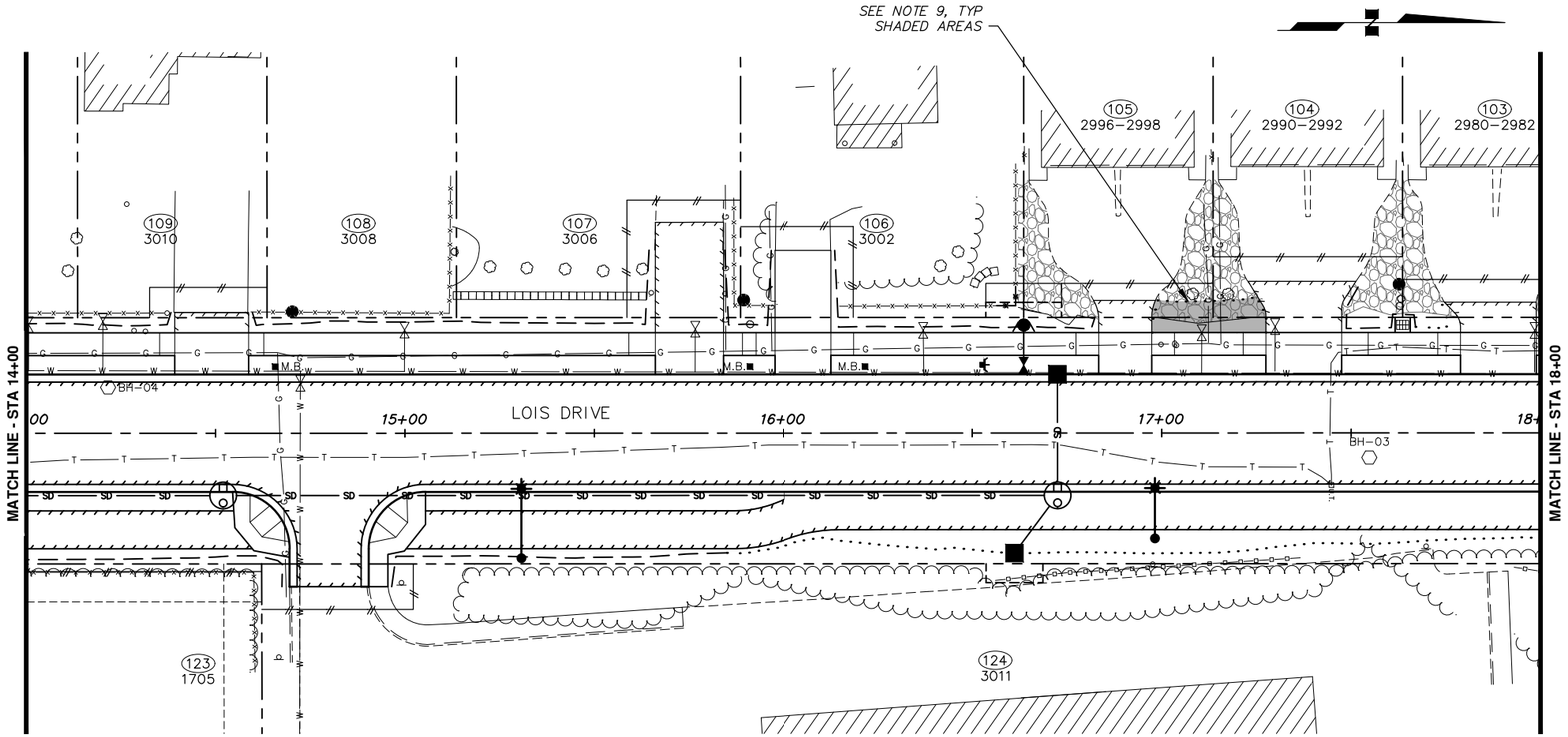
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

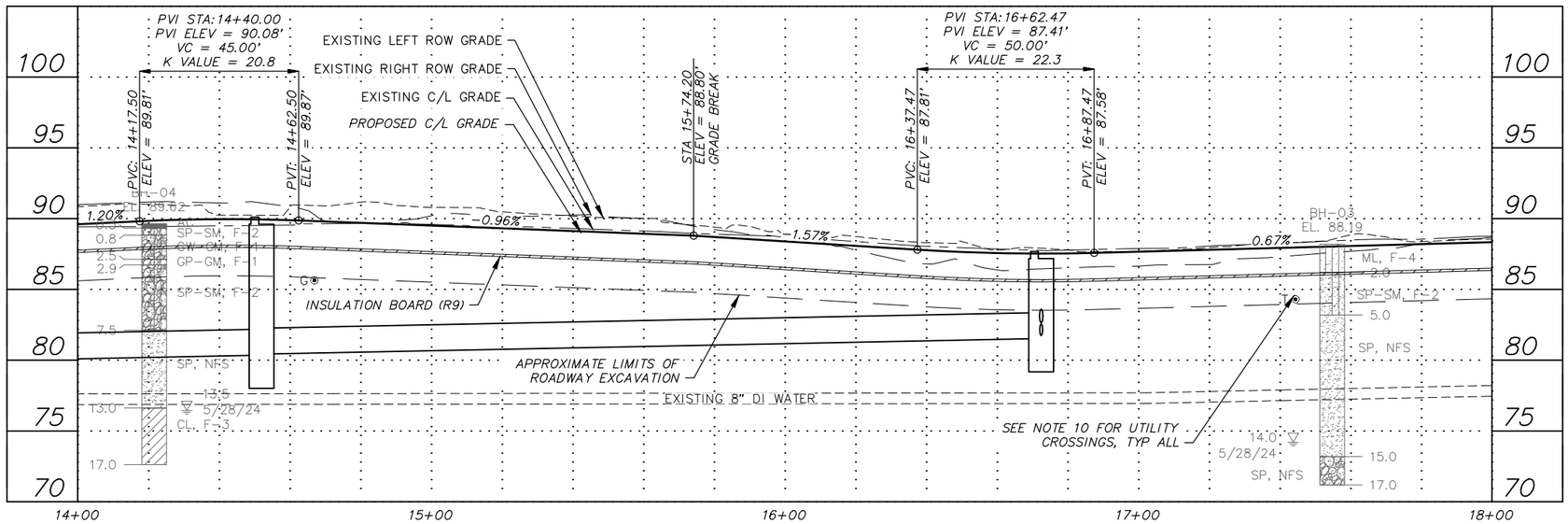
ROADWAY PLAN & PROFILE

BOP TO STA 14+00

SCALE HOR. 1"=20' VER. 1"=5' | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET R1 of R11

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Plan & Profile.dwg





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3. SEE TYPICAL SECTION (C) SHEETS FOR ROADWAY CROSS SECTIONS.
4. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
5. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
6. SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
7. SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION & SIGNAL (J) SHEETS FOR SIGNAL INFORMATION.
8. THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.
9. GRADE AREA TO DRAIN TOWARDS ROADWAY PER DETAIL 2, SHEET C4 NOTIFY ENGINEER IMMEDIATELY IF MIN 1.0% POSITIVE GRADE TOWARD ROADWAY CANNOT BE MAINTAINED. THIS WORK SHALL BE INCIDENTAL TO CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE.
10. 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 OR AS NOTED. EXISTING UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS WILL BE RELOCATED BY OTHERS. SEE SPECIFICATIONS FOR MORE INFORMATION.

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PLAN CHECK

DATA	DRAWN BY	CHECKED BY
BASE	BB	BW
TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
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TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

GRAPHIC SCALE 40 20 0 20 40

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

ROADWAY PLAN & PROFILE

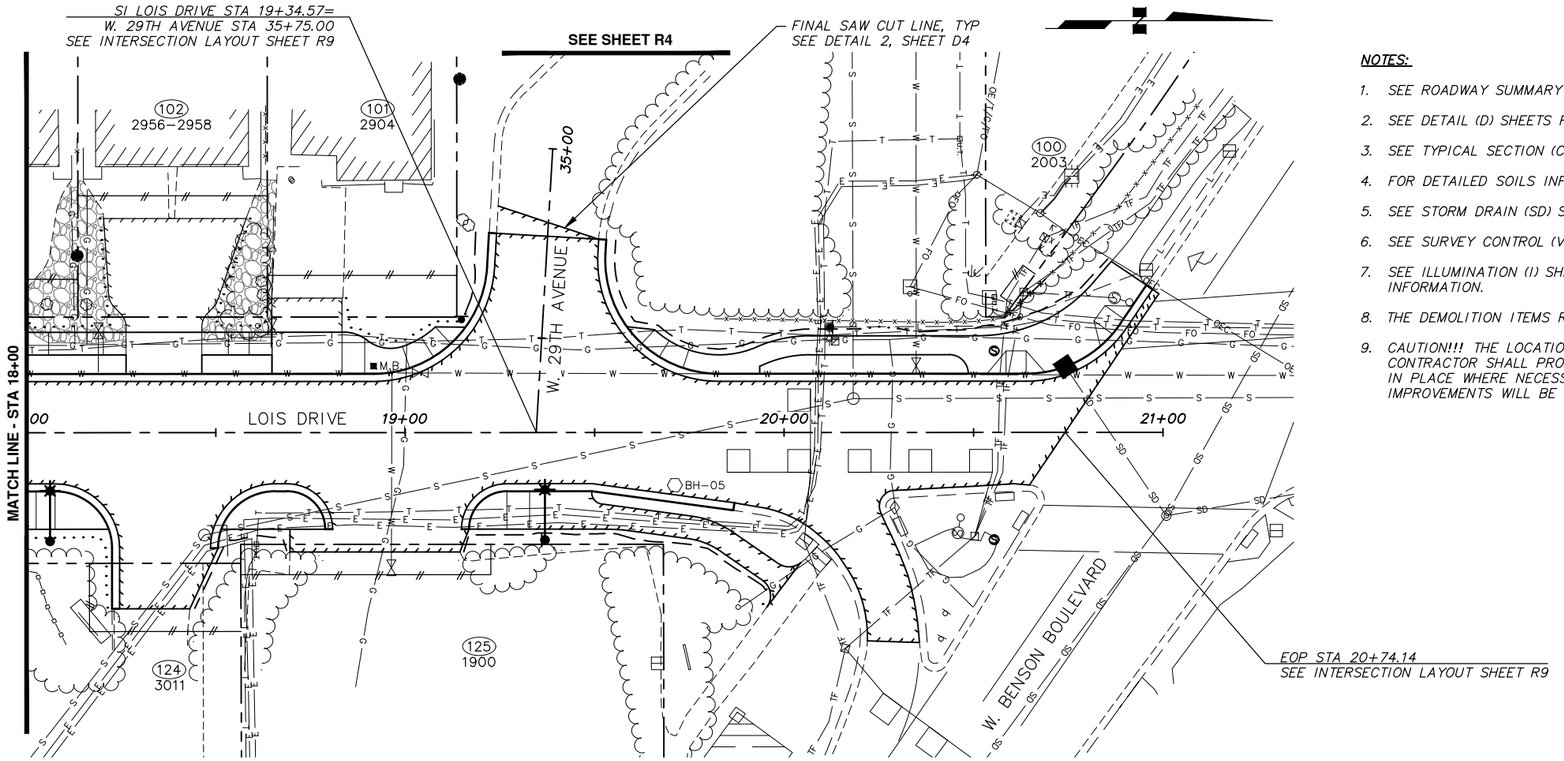
STA 14+00 TO STA 18+00

SCALE HOR. 1"=20'
VER. 1"=5'

GRID SW1628
DATE MAR 2025
STATUS 65%

SHEET R2 of R11

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Plan & Profile.dwg



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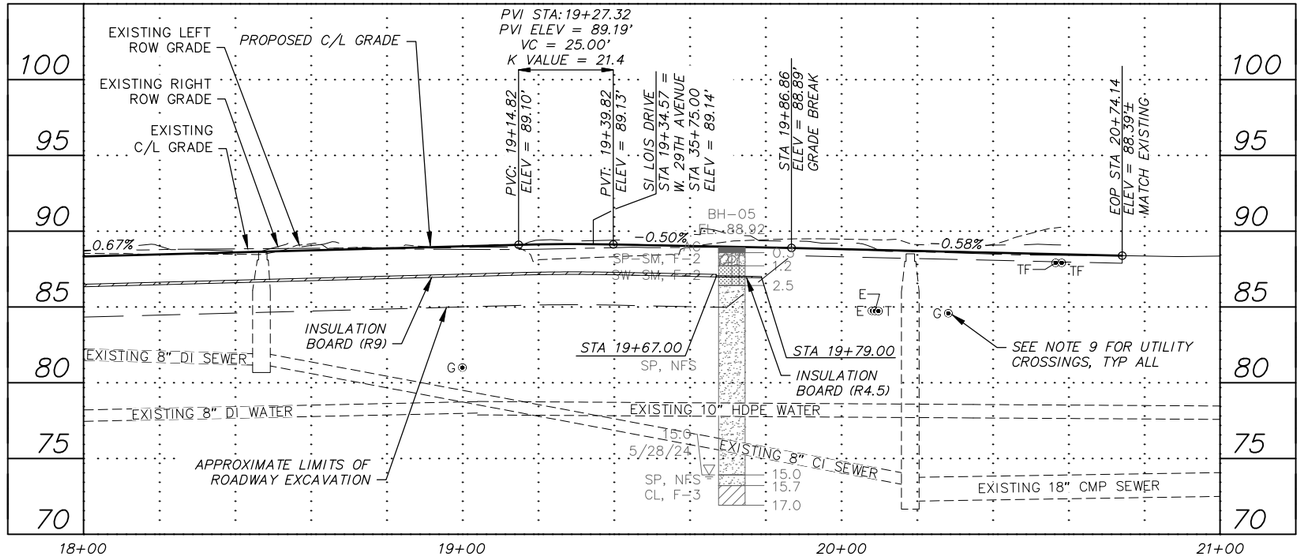

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TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
3840	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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19–08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

ROADWAY PLAN & PROFILE

STA 18+00 TO EOP

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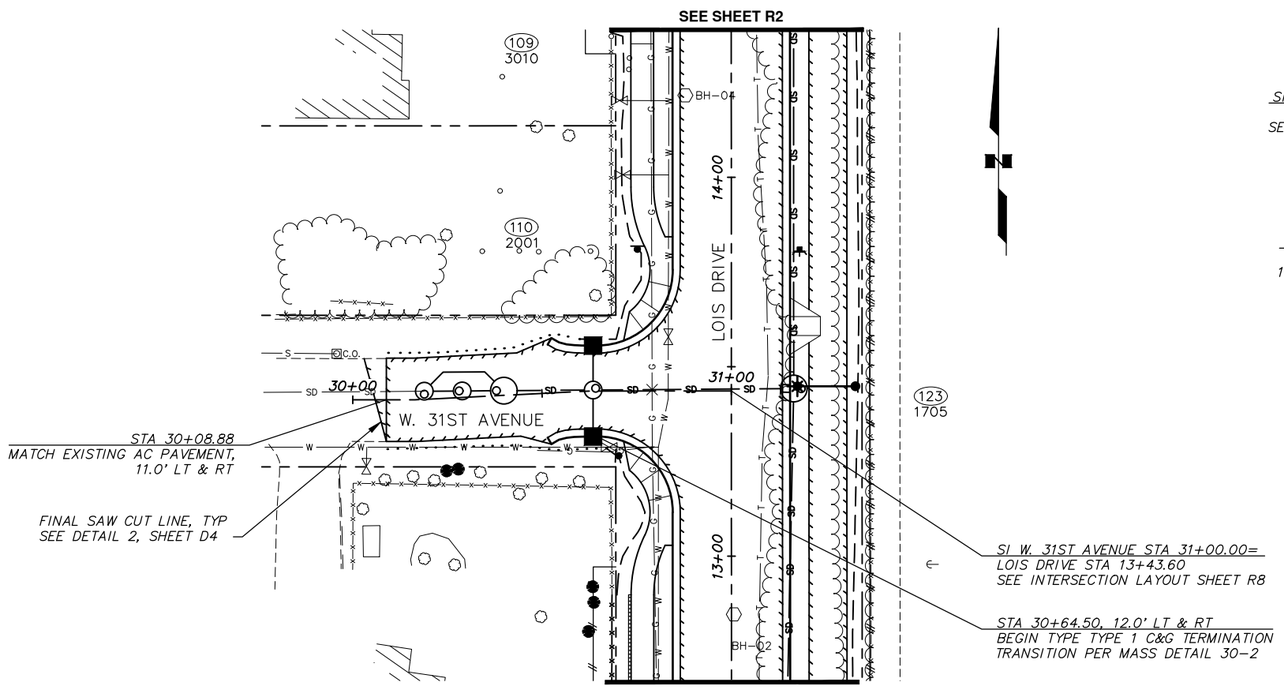
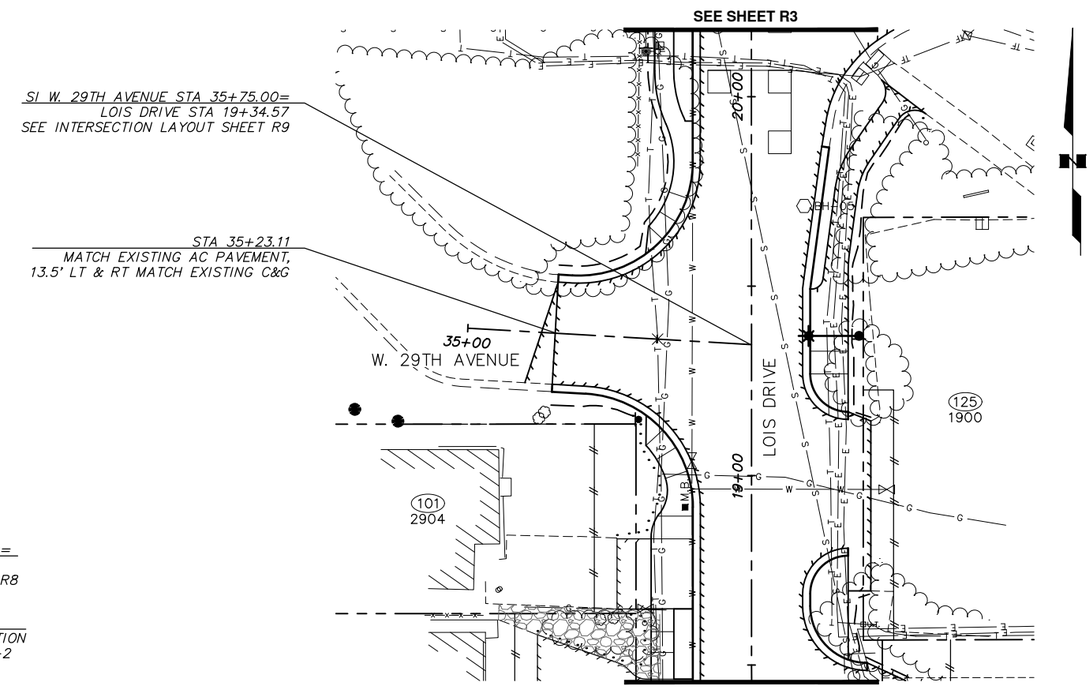
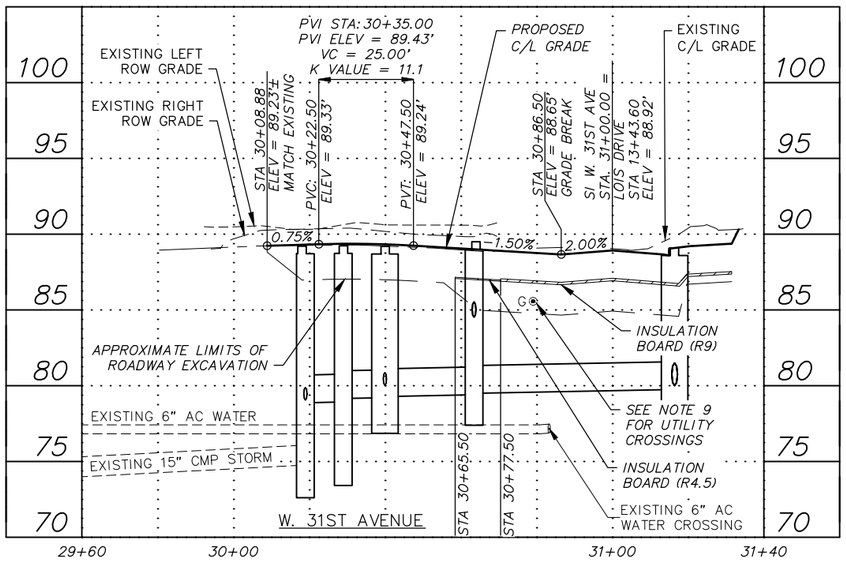
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET R3 of R11

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Plan & Profile.dwg

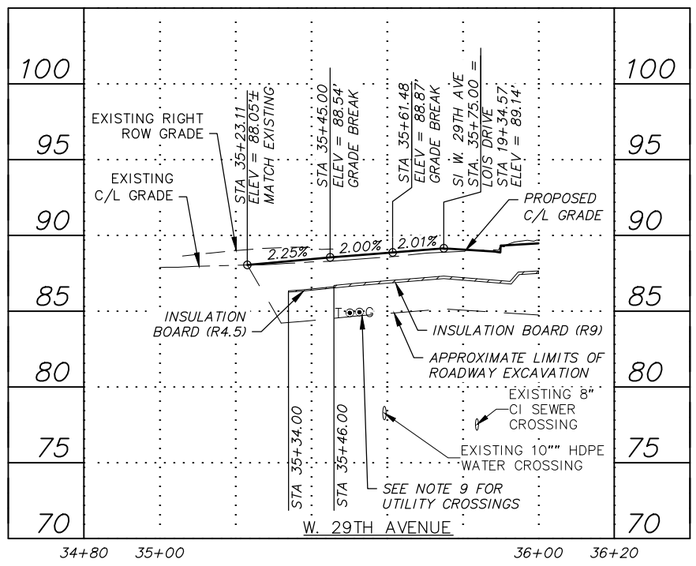






NOTES:

1. SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. SEE TYPICAL SECTION (C) SHEETS FOR ROADWAY CROSS SECTIONS.
4. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
5. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
6. SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
7. SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION & SIGNAL (J) SHEETS FOR SIGNAL INFORMATION.
8. THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.
9. 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 OR AS NOTED. EXISTING UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS WILL BE RELOCATED BY OTHERS. SEE SPECIFICATIONS FOR MORE INFORMATION.



RECORD DRAWING

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

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

GRAPHIC 40 20 0 20 40 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

REV	DATE	DESCRIPTION	BY

CONSTRUCTION RECORD | VERTICAL DATUM | REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

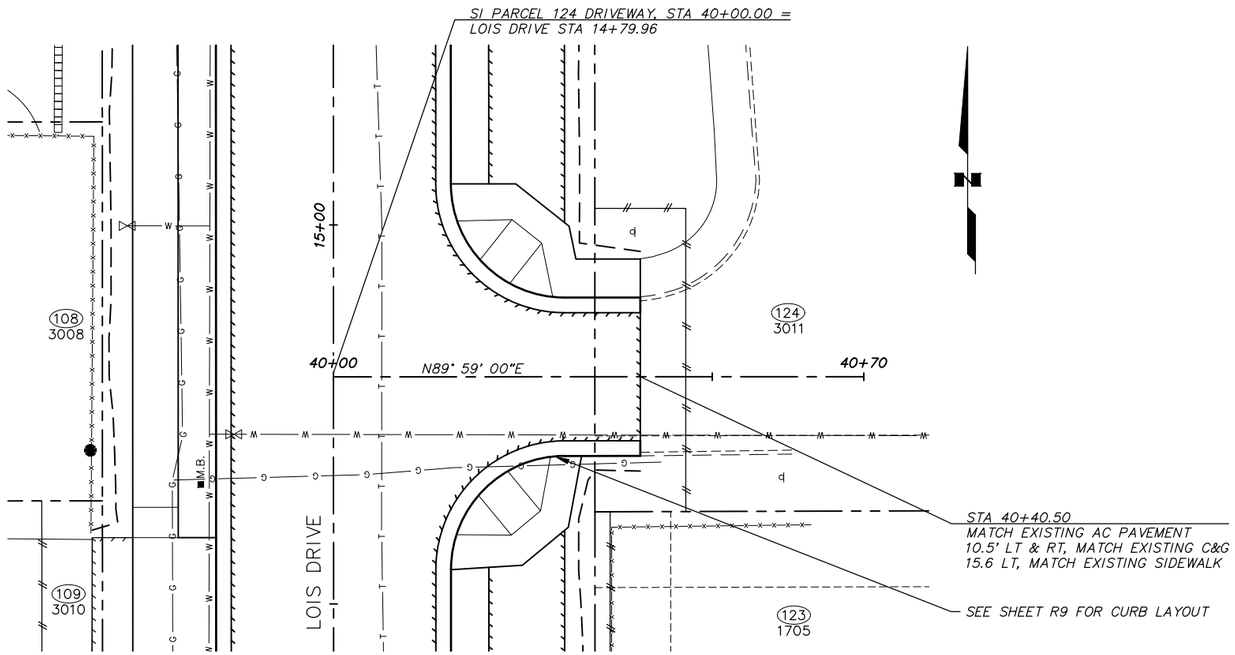
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

ROADWAY PLAN & PROFILE

W. 31ST AVENUE & W. 29TH AVENUE

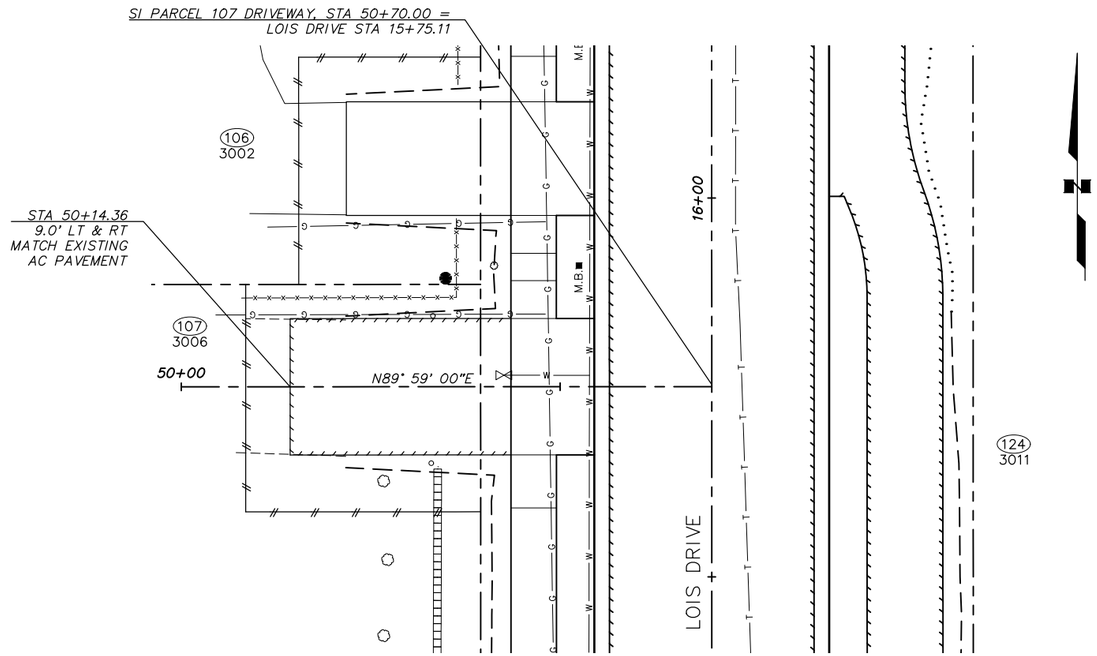
SCALE HOR. 1"=20'
VER. 1"=5'
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET R4 of R11

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Plan & Profile - Side Street.dwg



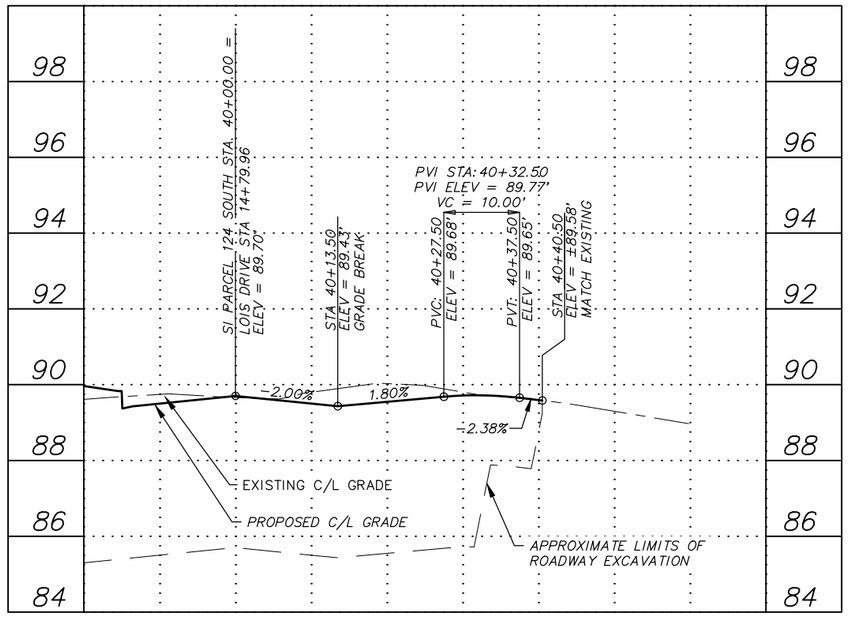
1 PARCEL 124 DRIVEWAY

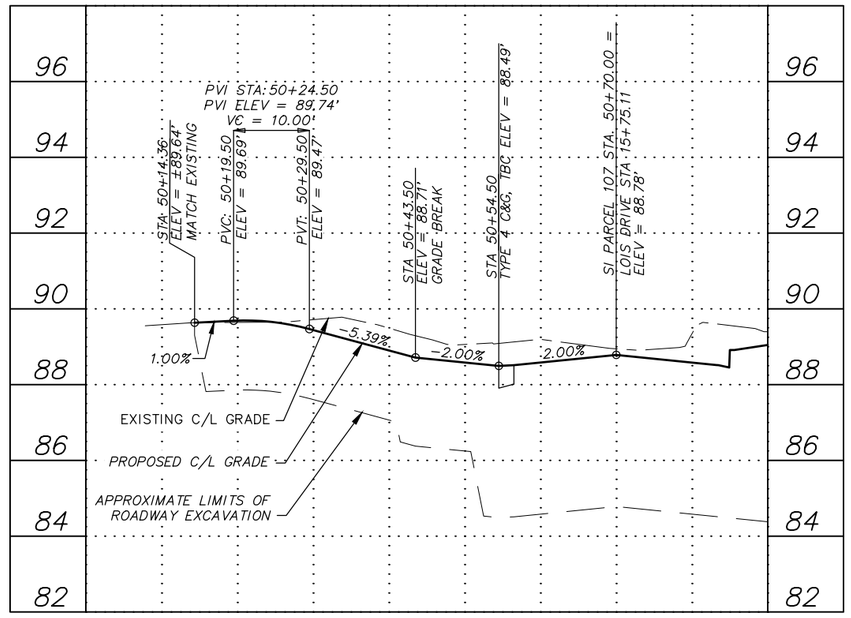
SCALE: GRAPHIC



2 PARCEL 107 DRIVEWAY

SCALE: GRAPHIC





NOTES:

1. SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. SEE TYPICAL SECTION (C) SHEETS FOR ROADWAY CROSS SECTIONS.
4. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
5. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
6. SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
7. SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION & SIGNAL (J) SHEETS FOR SIGNAL INFORMATION.
8. THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.
9. 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 OR AS NOTED. EXISTING UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS WILL BE RELOCATED BY OTHERS. SEE SPECIFICATIONS FOR MORE INFORMATION.
10. PROPOSED ROADWAY INSULATION NOT SHOWN IN THE PROFILES FOR CLARITY. SEE TYPICAL SECTION (C) SHEETS FOR MORE INFORMATION.

RECORD DRAWING

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

PLAN CHECK

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

GRAPHIC 20 10 0 10 20 SCALE

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

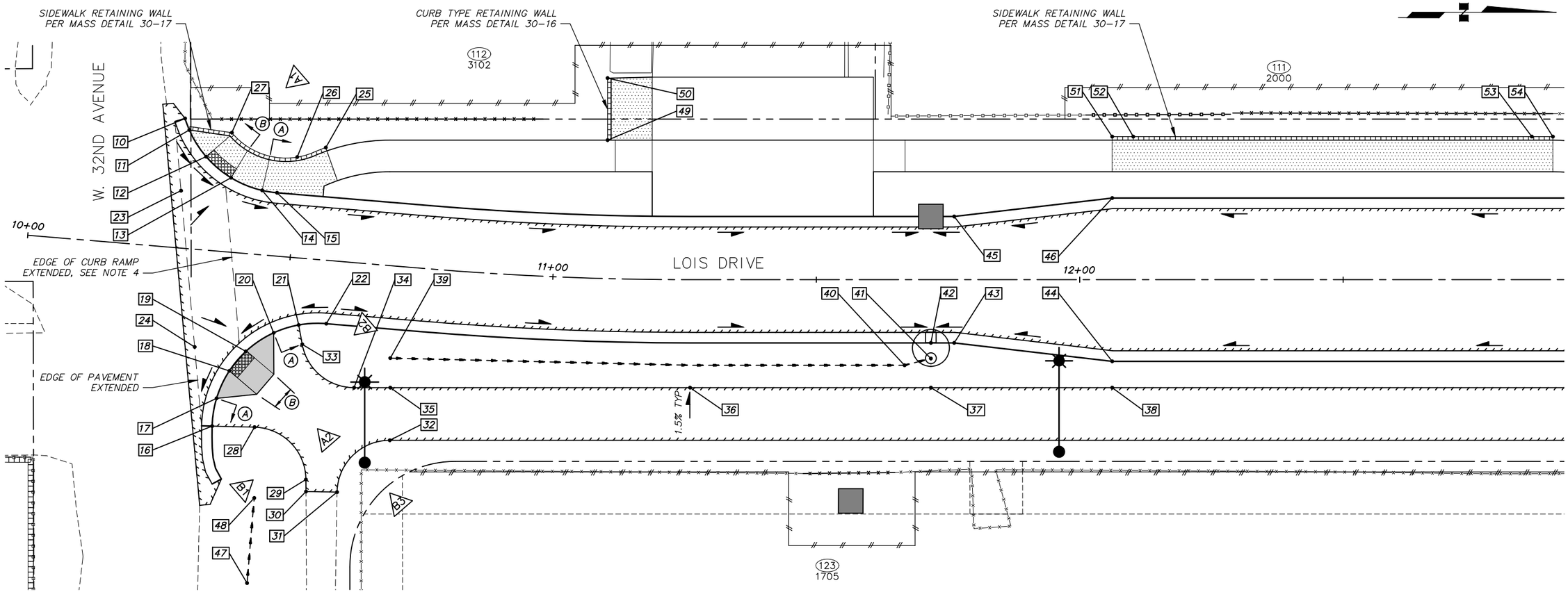
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

DRIVEWAY PLAN & PROFILE

PARCEL 107 & 124

SCALE HOR. 1"=10' VER. 1"=2'
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET R5 of R11

File:J:\Jobs\Data\101450 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\101450 Driveway Plan & Profile.dwg



POINT SUMMARY – LOIS DRIVE AT W. 32ND AVENUE

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT* LENGTH (FT)	TO NEXT POINT* SLOPE (%)	DESCRIPTION
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									

TO BE COMPLETED FOR 95%

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

CURB RADIUS TABLE

POINT	TBC RADIUS POINT STATION	TBC RADIUS POINT OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1			20.0	W. 32ND AVENUE
A2			20.0	W. 32ND AVENUE
B1			10.0	PATHWAY
B2			10.0	PATHWAY
B3			10.0	PATHWAY

TO BE COMPLETED FOR 95%

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

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- PCC CURB RAMP
- DETECTABLE WARNING PANEL
- P.C.C. STRUCTURE/RETAINING WALL (CLASS AA-3)

NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE BETWEEN EDGE OF PAVEMENT EXTENDED AND EDGE OF CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. LIP OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF PAVEMENT.
8. SEE SHEET R7 FOR POINTS 25-54.

RECORD DRAWING

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

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

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

INTERSECTION LAYOUT PLAN

W. 32ND AVENUE

SCALE HOR. 1"=10' VER. N/A | GRID SW1626 | DATE MAR 2025 | STATUS 65% | SHEET R6 of R11

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Intersection Layout.dwg

☐ POINT SUMMARY – LOIS DRIVE AT W. 32ND AVENUE

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TOP SW ELEV (FT)	TOP RW ELEV (FT)	DITCH ELEV (FT)	TO NEXT POINT* LENGTH (FT)	TO NEXT POINT* SLOPE (%)	DESCRIPTION
25												
26												
27												
28												
29												
30												
31												
32												
33												
34												
35												
36												
37												
38												
39												
40												
41												
42												
43												
44												
45												
46												
47												
48												
49												
50												
51												
52												
53												
54												

TO BE COMPLETED FOR 95%

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

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Intersection Layout.dwg

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA
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Robert W. Burdick
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SEAL

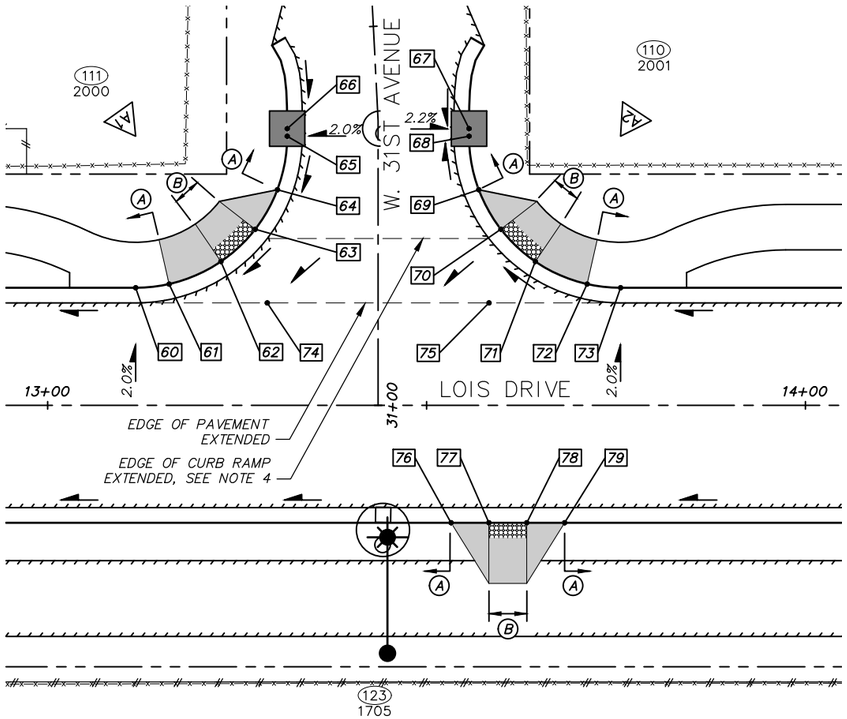
MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

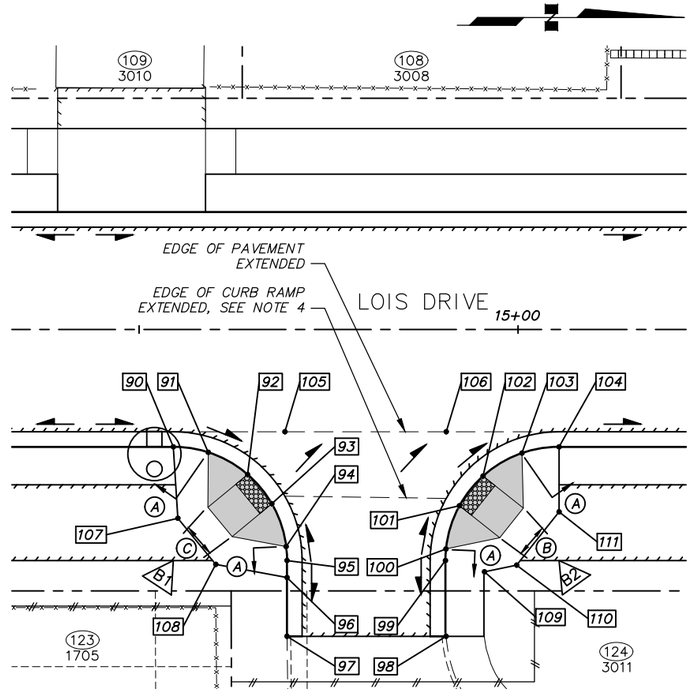
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

INTERSECTION LAYOUT POINT SUMMARY

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET R7 of R11



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



NOTES

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

△ CURB RADIUS TABLE

POINT	TBC RADIUS POINT STATION	TBC RADIUS POINT OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1	TO BE		20.0	W. 31ST AVENUE
A2	COMPLETED		20.0	W. 31ST AVENUE
B2	FOR 95%		15.0	PARCEL 124 SOUTH
B3			15.0	PARCEL 124 SOUTH

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- PCC CURB RAMP
- DETECTABLE WARNING PANEL

☐ POINT SUMMARY – LOIS DRIVE AT W. 31ST AVENUE

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT* LENGTH (FT)	TO NEXT POINT* SLOPE (%)	DESCRIPTION
60									
61									
62									
63									
64									
65									
66									
67									
68									
69									
70									
71									
72									
73									
74									
75									
76									
77									
78									
79									

TO BE COMPLETED FOR 95%

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

☐ POINT SUMMARY – PARCEL 124 SOUTH DRIVEWAY

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT* LENGTH (FT)	TO NEXT POINT* SLOPE (%)	DESCRIPTION
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
101									
102									
103									
104									
105									
106									
107									
108									
109									
110									
111									

TO BE COMPLETED FOR 95%

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

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BY
DESIGN CRW BOOK No. 3839 & 3840	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

GRAPHIC SCALE 20 10 0 10 20

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CRW ENGINEERING GROUP
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
#AECL682-AK
CONSULTANT

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

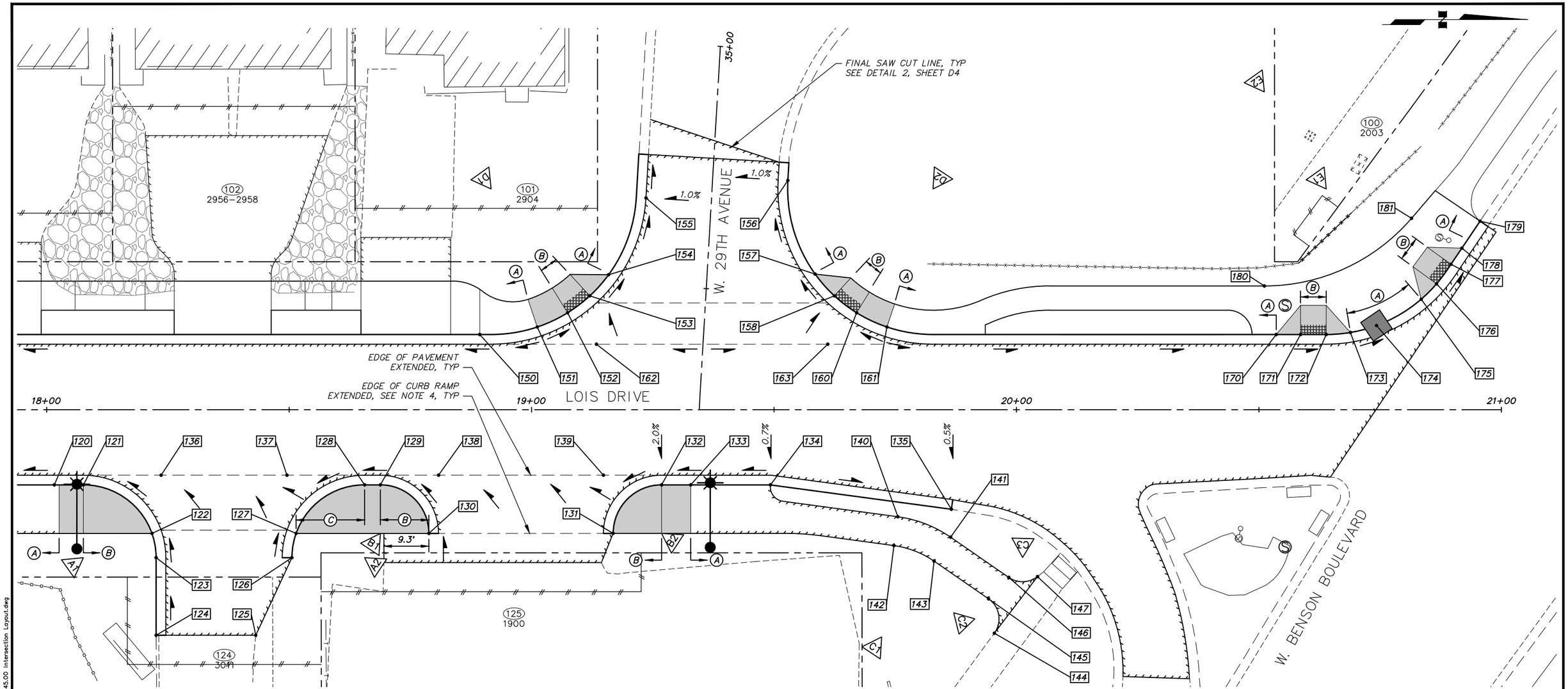
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

INTERSECTION LAYOUT PLAN

W. 31ST AVENUE & PARCEL 124 SOUTH

SCALE HOR. 1"=10' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET R8 of R11

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Intersection Layout.dwg



NOTES

1. SEE ROADWAY (R) SHEETS FOR ROADWAY & SIDEWALK LOCATIONS.
2. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS & ELEVATIONS OF SD PIPES & STRUCTURES.
3. SEE SIGNING & STRIPING (S) SHEETS FOR LOCATIONS & TYPES OF SIGNS & TRAFFIC MARKINGS.
4. THE MAXIMUM CROSS-SLOPE BETWEEN EDGE OF PAVEMENT EXTENDED AND EDGE OF CURB RAMP EXTENDED SHALL BE 2%. IF A 2% CROSS-SLOPE CANNOT BE MAINTAINED NOTIFY ENGINEER PRIOR TO INSTALLATION OF AC PAVEMENT.
5. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
6. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
7. LIP OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF PAVEMENT.
8. SEE SHEET R10 FOR CURB RADIUS TABLE & POINT SUMMARY TABLES.

LEGEND

- APPROXIMATE DIRECTION OF DRAINAGE FLOWS
- PCC CURB RAMP
- DETECTABLE WARNING PANEL

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

RECORD DRAWING

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

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

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

INTERSECTION LAYOUT PLAN

PARCEL 124 NORTH, PARCEL 125, W. 29TH AVENUE & WEST BENSON BOULEVARD

SCALE HOR. 1"=10'
VER. N/A
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET R9 of R11

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Intersection Layout.dwg

☐ POINT SUMMARY – PARCEL 124 NORTH & 125

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TOP SW ELEV (FT)	TO NEXT POINT*		DESCRIPTION
								LENGTH (FT)	SLOPE (%)	
120										
121										
122										
123										
124										
125										
126										
127										
128										
129										
130										
131										
132										
133										
134										
135										
136										
137										
138										
139										
140										
141										
142										
143										
144										
145										
146										
147										

TO BE COMPLETED FOR 95%

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

△ CURB RADIUS TABLE

POINT	TBC RADIUS POINT		RADIUS (FT)	DESCRIPTION
	STATION	OFFSET (FT)		
A1			15.0	PARCEL 124 NORTH
A2			15.0	PARCEL 124 NORTH
B1			10.0	PARCEL 125
B2			10.0	PARCEL 125
C1			25.0/19.0	PATHWAY CURVE
C2			5.0	PATHWAY
C3			5.0	PATHWAY
D1			30.0	W. 29TH AVENUE
D2			30.0	W. 29TH AVENUE
E1			30.0	W. BENSON BLVD
E2			40.0	BACK OF SIDEWALK

TO BE COMPLETED FOR 95%

☐ POINT SUMMARY – LOIS DRIVE AT W. 29TH AVENUE

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TO NEXT POINT*		DESCRIPTION
							LENGTH (FT)	SLOPE (%)	
150									
151									
152									
153									
154									
155									
156									
157									
158									
159									
160									
161									
162									
163									

TO BE COMPLETED FOR 95%

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

☐ POINT SUMMARY – LOIS DRIVE AT W. BENSON BOULEVARD

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TOP SW ELEV (FT)	TO NEXT POINT*		DESCRIPTION
								LENGTH (FT)	SLOPE (%)	
170										
171										
172										
173										
174										
175										
176										
177										
178										
179										
180										
181										

TO BE COMPLETED FOR 95%

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

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PHONE: (907) 562-3252
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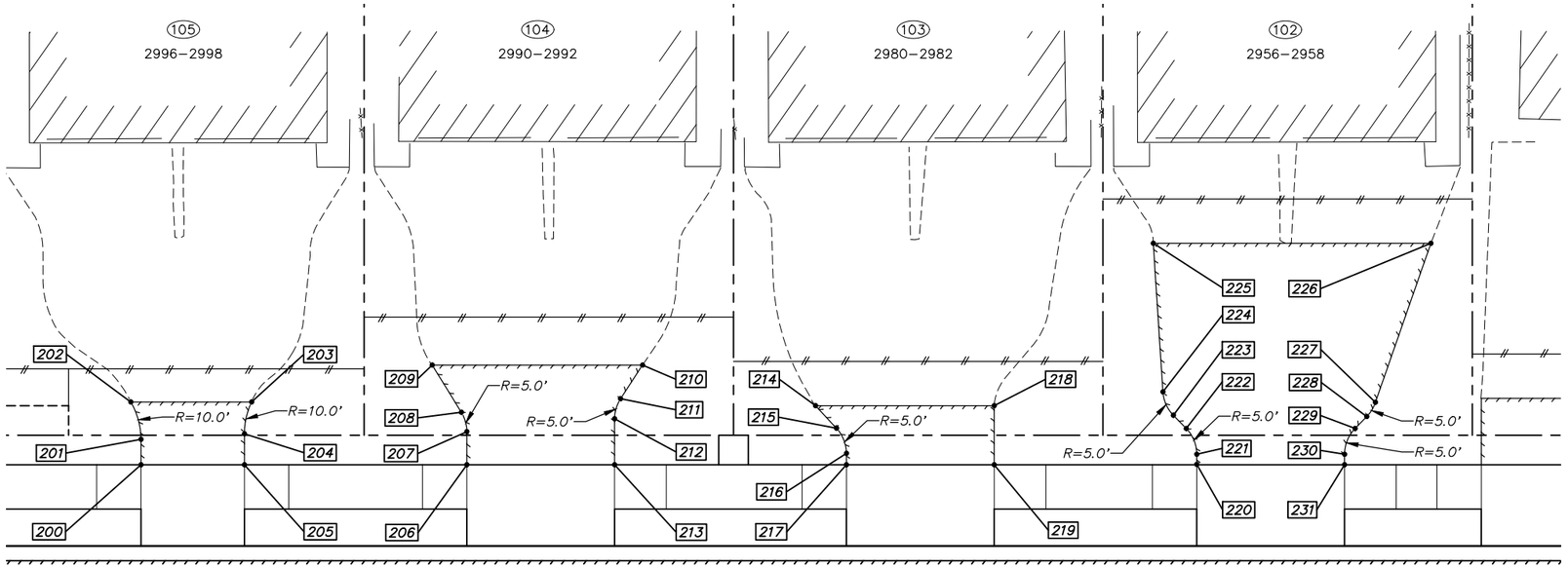
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

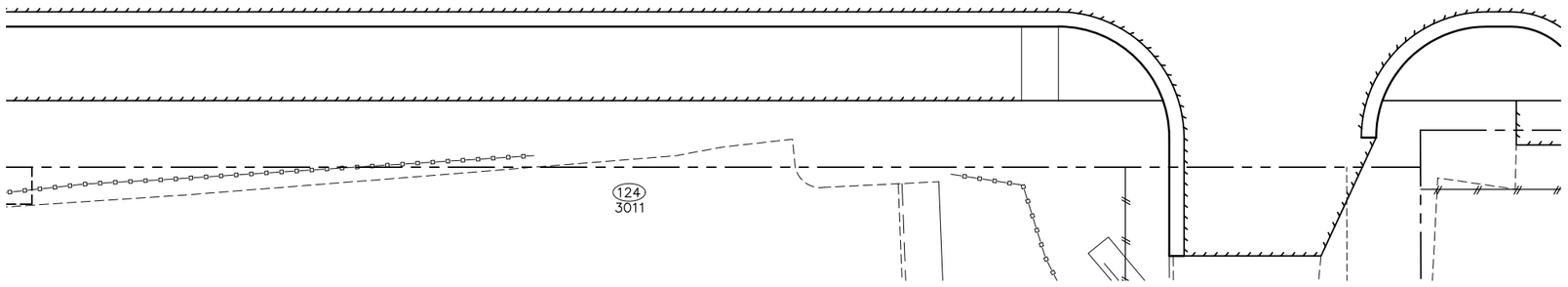
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

INTERSECTION LAYOUT POINT SUMMARY

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET R10 of R11

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Intersection Layout.dwg





POINT SUMMARY – PARCEL 102 – 105

POINT	STATION	OFFSET (FT)	ELEV (FT)	DESCRIPTION
200				
201				
202				
203				
204				
205				
206				
207				
208				
209				
210				
211				
212				
213				
214				
215				
216				
217				
218				
219				
220				
221				
222				
223				
224				
225				
226				
227				
228				
229				
230				
231				

TO BE COMPLETED FOR 95%

NOTES

1. *SIDEWALK CROSS SLOPE SHALL BE 2% MAXIMUM AT DRIVEWAYS.*
2. *SEE 20.28 DRIVEWAY RECONSTRUCTION TABLE (T) SHEETS FOR DRIVEWAY INFORMATION.*
3. *SEE DRIVEWAY DETAIL (D) SHEETS FOR MORE INFORMATION.*

RECORD DRAWING

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

PLAN CHECK

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

GRAPHIC SCALE 20 10 0 10 20

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

DRIVEWAY LAYOUT PLAN

PARCELS 102-105

SCALE HOR. 1"=10' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET R11 of R11

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Driveway Reconstruction Plans.dwg

20.28

RECONSTRUCT DRIVEWAY

SHEET	PARCEL	CENTERLINE REFERENCE		DRIVEWAY WIDTH AT TOP BACK CURB OR EDGE OF PAVEMENT (FT)	DRIVEWAY WIDTH AT ROW (FT)	CURB CUT TYPE	RADIUS (FT)	SKEW ANGLE (DEGREES)	LANDING LENGTH (FT)	LANDING GRADE	TOTAL DISTANCE (FT)	EXISTING GRADE	PROPOSED GRADE	SURFACE TYPE ON PROPERTY	L1 (FT)	L2 (FT)	CONSTRUCT PER DETAIL	REMARKS
		STATION	OFFSET															
R1	112	11+41.5	LT	42.0	42.0	4	N/A	−90	14.5	1.5%	26.5	2.2%	3.0%	CONCRETE	7.0	6.0	DETAIL 1, SHEET D3	
R2	109	14+49.0	LT	19.5	19.5	2	N/A	−90	11.0	2.0%	16.4	7.1%	4.0%	ASPHALT	4.0	4.0	DETAIL 1, SHEET D3	
R2	124 SOUTH	14+80.0	RT	17.0	17.0	N/A	15	90	14.0	1.8%	27.1	VARIES	VARIES	ASPHALT	N/A	N/A	DETAIL 2, SHEET D3	SEE INTERSECTION LAYOUT SHEET R8 & DRIVEWAY PLAN & PROFILE SHEET R5
R2	107	15+75.1	LT	18.0	18.0	4	N/A	−90	11.0	2.0%	40.1	VARIES	VARIES	ASPHALT	7.0	5.0	DETAIL 1, SHEET D3	SEE DRIVEWAY PLAN & PROFILE SHEET R5
R2	106	16+05.2	LT	15.0	15.0	4	N/A	−90	11.0	2.0%	32.7	1.2%	2.8%	CONCRETE	5.0	6.0	DETAIL 1, SHEET D3	
R2	105	16+90.4	LT	14.0	16.3	4	N/A	−90	11.0	2.0%	19.6	2.1%	2.7%	ASPHALT	6.0	6.0	DETAIL 1, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R11
R2	104	17+37.5	LT	20.0	28.5	4	N/A	−90	11.0	2.0%	24.5	1.2%	4.2%	ASPHALT	6.0	7.0	DETAIL 1, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R11
R2	103	17+88.9	LT	20.0	24.3	4	N/A	−90	11.0	2.0%	19.0	−1.6%	3.4%	ASPHALT	6.0	7.0	DETAIL 1, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R11
R3	124 NORTH	18+35.6	RT	24.0	VARIES	N/A	15	90	33.0	1.6%	33.0	0.7%	1.6%	ASPHALT	5.0	N/A	DETAIL 2, SHEET D3	SEE INTERSECTION LAYOUT SHEET R9
R3	102	18+36.3	LT	20.0	21.4	4	N/A	−90	11.0	1.0%	41.0	0.5%	0.9%	ASPHALT	6.0	7.0	DETAIL 1, SHEET D3	SEE DRIVEWAY LAYOUT SHEET R11
R3	101	18+74.0	LT	18.5	18.5	4	N/A	−90	11.0	1.5%	20.0	2.2%	2.7%	ASPHALT	6.0	6.0	DETAIL 1, SHEET D3	
R3	125	18+97.8	LRT	24.0	VARIES	N/A	10	−90	18.0	1.0%	18.0	0.1%	1.0%	ASPHALT	N/A	6.0	DETAIL 3, SHEET D3	SEE INTERSECTION LAYOUT SHEET R9

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 0 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.*

30.02

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

SHEET	STATION TO STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R1	10+27.9 TO 14+00.0	LT	370	INCLUDES SIDE STREETS
R1	10+40.5 TO 14+00.0	RT	356	
R2	14+00.0 TO 18+00.0	LT	400	
R2	14+00.0 TO 18+00.0	RT	416	INCLUDES DRIVEWAYS
R3	18+00.0 TO 20+95.6	LT	321	INCLUDES SIDE STREETS
R3	18+00.0TO 19+86.6	RT	165	INCLUDES DRIVEWAYS

PCC CURB & GUTTER (ALL TYPES) NOTES:

1. *SEE INTERSECTION LAYOUT SHEETS AND DRIVEWAY RECONSTRUCTION SHEETS R6–R10 FOR LOCATIONS AND TYPES OF CURB AND GUTTER.*
2. *SEE 20.28 RECONSTRUCT DRIVEWAY TABLE FOR LOCATIONS OF DRIVEWAY CURB CUTS.*

30.02

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

SHEET	STATION TO STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R1	11+76.2 TO 12+06.2	LT	30	
R1	11+76.2 TO 12+06.2	RT	30	

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

1. *SEE DETAIL 3, SHEET D1 FOR STEEL CURB FACING DETAIL.*

RECORD DRAWING

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

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

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

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3940 ARCTIC BLVD. SUITE 300
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19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET T1 of T3

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Summary Tables.dwg

30.03

P.C.C. SIDEWALK

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	6" THICK, AREA (SY)	REMARKS
R1	10+57.7	15.2 LT	11+11.4	20.3 LT	36		
R1	11+11.4	20.3 LT	11+66.9	20.5 LT		132	PARCEL 112 DRIVEWAY
R1	11+66.9	20.5 LT	12+06.2	20.5 LT	26		
R1	12+89.8	20.5 LT	13+16.0	16.0 LT	18		
R1	13+71.2	16.0 LT	14+00.0	20.5 LT	20		
R2	14+00.0	20.5 LT	14+35.3	20.5 LT			
R2	14+35.3	20.5 LT	14+62.8	20.5 LT		29	PARCEL 109 DRIVEWAY
R2	14+54.5	15.5 RT	14+69.5	32.7 RT	11		CURB RAMP LANDING
R2	14+62.8	20.5 LT	15+59.1	20.5 LT	64		
R2	14+90.4	40.5 RT	15+05.4	15.5 RT	16		CURB RAMP LANDING
R2	15+59.1	20.5 LT	15+89.1	20.5 LT		30	PARCEL 107 DRIVEWAY
R2	15+89.1	20.5 LT	15+92.7	20.5 LT	2		
R2	15+92.7	20.5 LT	16+18.7	20.5 LT		62	PARCEL 106 DRIVEWAY
R2	16+18.7	20.5 LT	16+77.4	20.5 LT	39		
R2	16+77.4	20.5 LT	17+03.4	20.5 LT		25	PARCEL 105 DRIVEWAY
R2	17+03.4	20.5 LT	17+21.5	20.5 LT	12		
R2	17+21.5	20.5 LT	17+54.5	20.5 LT		33	PARCEL 104 DRIVEWAY
R2	17+54.5	20.5 LT	17+72.9	20.5 LT	12		
R2/R3	17+72.9	20.5 LT	18+05.9	20.5 LT		33	PARCEL 103 DRIVEWAY
R3	18+05.9	20.5 LT	18+20.3	20.5 LT	10		
R3	18+20.3	20.5 LT	18+53.3	20.5 LT		33	PARCEL 102 DRIVEWAY
R3	18+53.3	20.5 LT	18+58.8	20.5 LT	4		
R3	18+58.8	20.5 LT	18+89.3	15.5 LT		34	PARCEL 101 DRIVEWAY
R3	18+89.3	15.5 LT	19+01.2	17.1 LT	9		
R3	19+73.3	17.1 LT	20+95.6	38.6 LT	98		

30.04

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

SHEET	APPX STA	APPX OFFSET (FT)	CURB RAMP AREA (SY)	DETECTABLE WARNING AREA (SF)	CURB RAMP TYPE	REMARKS
R1	10+35	15.4 LT	SEE NOTE 2	12	PARALLEL	
R1	10+42	20.2 RT	8	10	PERPENDICULAR	
R1	13+25	20.4 LT	10	12	PARALLEL	
R1	13+61	15.5 RT	9	10	PERPENDICULAR	
R1	13+62	20.4 LT	10	12	PARALLEL	
R2	14+66	20.9 RT	8	10	PERPENDICULAR	
R2	14+94	21.2 RT	8	10	PERPENDICULAR	
R3	18+16	18.3 RT	18		UNIDIRECTIONAL	
R3	18+65	15.5 RT	214		UNIDIRECTIONAL	
R3	19+09	21.3 LT	10	11	PARALLEL	
R3	19+20	18.4 RT	15		UNIDIRECTIONAL	
R3	19+65	21.3 LT	8	11	PARALLEL	
R3	20+61	15.5 LT	7	10	PERPENDICULAR	
B3	20+89	28.7 LT	6	10	PERPENDICULAR	

PCC CURB RAMP & DETECTABLE WARNING NOTES:

1. *SEE INTERSECTION LAYOUT SHEETS R6–R9 FOR FOR LOCATIONS OF CURB RAMPS AND DETECTABLE WARNINGS.*
2. *CURB RAMP PAID FOR UNDER CY QUANTITY OF 30.05 PCC STRUCTURES/RETAINING WALL (CLASS AA–3).*

30.08

P.C.C. CLUSTER MAILBOX BASE

SHEET	STATION	OFFSET (FT)	REMARKS
R2	17+63.6	26.5 LT	

PCC CLUSTER MAILBOX BASE NOTES:

1. *SEE DETAIL 4, SHEET D5.*

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 3839 &
3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

SEAL

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19–08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED A

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET T2 of T3

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Summary Tables.dwg

50.06

REMOVE AND REPLACE MANHOLE CONE SECTION OR MANHOLE COVER AND FRAME

SHEET	STATION	OFFSET (FT)	CONE SECTION	COVER AND FRAME	REMARKS
R3	18+47	27.0 RT	X		
R3	20+18	8.9 LT		X	

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

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

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	10+29	13.3 LT		X	
R1	13+29	32.3 LT		X	
R1	13+58	16.6 LT		X	
R2	14+01	28.7 LT	X		
R2	14+20	29.5 LT	X		
R2	14+72	13.2 LT		X	
R2	15+00	27.2 LT	X		
R2	15+77	27.4 LT	X		
R2	16+37	27.1 LT	X		
R2	17+02	16.4 LT		X	
R2	17+11	26.5 LT	X		
R2	17+30	28.1 LT	X		
R2	17+98	27.0 LT	X		
R3	18+19	26.9 LT	X		
R3	18+65	28.0 LT	X		
R3	19+04	15.7 LT		X	
R3	20+35	17.6 LT		X	

REMOVE AND REPLACE VALVE BOX TOP SECTION NOTES:

1. *SEE MASS DETAIL 60–08 AND 60–16.*

60.04

FURNISH AND INSTALL FIRE HYDRANT ASSEMBLY (SINGLE PUMPER)

SHEET	STATION	OFFSET (FT)	REMARKS
R2	16+63.6	28.5 LT	

SPECIAL FILL GRADING TABLE

SHEET	APPROX BEGIN STATION	APPROX END STATION	OFFSET	REMARKS
R2	16+97	17+27	LT	

SPECIAL FILL GRADING NOTES:

1. *SPECIAL FILL GRADING SHALL BE PER DETAIL 2, SHEET C4.*
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.*

SIDEWALK/PATHWAY TRANSITION SUMMARY

SHEET	PC		RADIUS 1 (FT)	PRC		RADIUS 2 (FT)	PT		REMARKS
	STATION	OFFSET (FT)		STATION	OFFSET (FT)		STATION	OFFSET (FT)	
R1	10+36.68	22.00 LT	14.0	10+53.06	19.64 LT	36.0	10+66.97	23.74 LT	W. 32ND AVENUE – SOUTHWEST
R1	12+89.81	26.50 LT	36.0	13+05.50	22.90 LT	14.0	13+22.66	26.91 LT	W. 31ST AVENUE – SOUTHWEST
R1	13+64.55	26.91 LT	14.0	13+81.71	22.90 LT	36.0	13+97.40	26.50 LT	W. 31ST AVENUE – NORTHWEST
R2	15+87.00	30.50 RT	40.0	16+00.91	28.00 RT	40.0	16+14.83	25.50 RT	PATHWAY TRANSITION
R3	18+83.73	26.50 LT	10.0	18+89.91	24.36 LT	24.0	19+07.94	27.88 LT	W. 29TH AVENUE – SOUTHWEST
R3	19+65.83	27.40 LT	25.0	19+92.79	22.58 LT	35.0	20+06.78	25.50 LT	W. 29TH AVENUE – NORTHWEST

SIDEWALK/PATHWAY TRANSITION SUMMARY NOTES:

1. *SEE SHEET DETAIL 3, SHEET D4.*

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DESIGN	RB	JK
QUANTITIES	RB	JK
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MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
3840	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
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CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

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PHONE: (907) 562-3252
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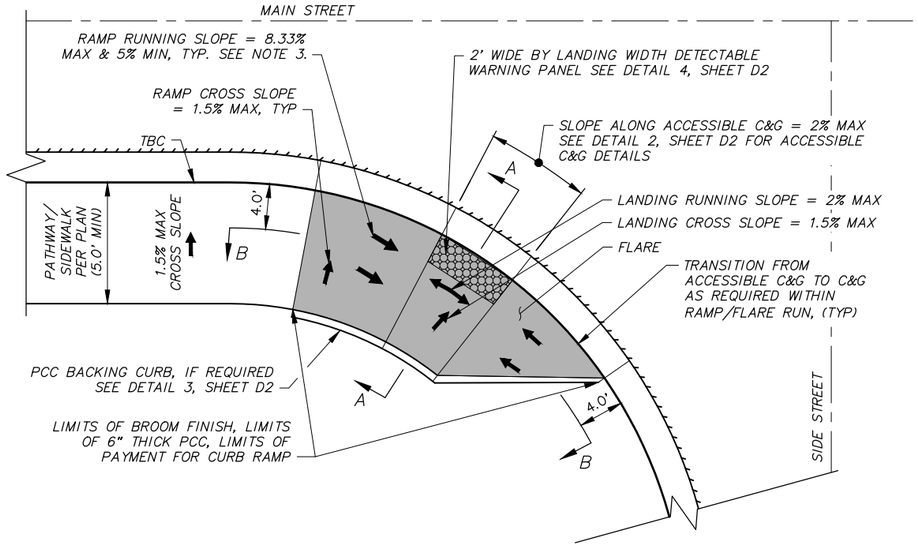
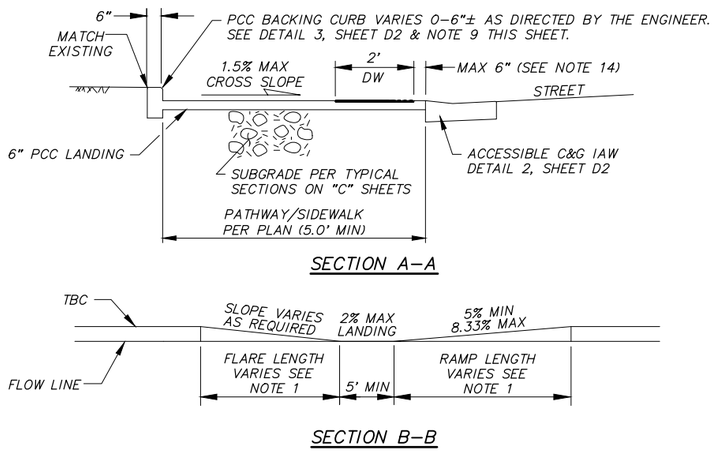


TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITHOUT CONNECTING SIDE STREET SIDEWALK - PLAN VIEW

1

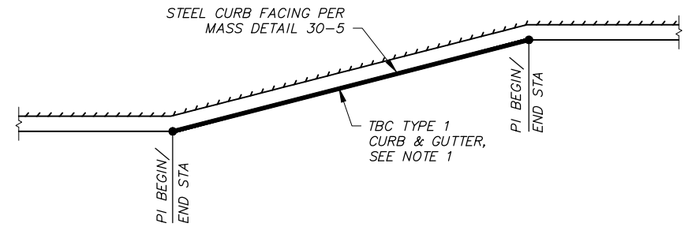
SCALE: NTS



TYPICAL CURB RAMP SECTIONS

2

SCALE: NTS



CURB & GUTTER TRANSITION AT NECKDOWN

3

SCALE: NTS

CURB AND GUTTER TRANSITION AT NECKDOWN & LANE WIDENING NOTES:

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

SHEET NOTES:

1. SEE SHEETS R6-R10 FOR CURB RAMP TYPES, LOCATIONS, RAMP, LANDING AND FLARE LENGTHS AND ELEVATIONS. RAMP/FLARE/LANDING LENGTH FOR PARALLEL CURB RAMPS SHALL BE AS MEASURED 4' OFF BACK OF CURB.
2. NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
3. FOR PARALLEL CURB RAMPS, RAMPS SHALL BE 15 FEET MAXIMUM. RAMPS SHALL HAVE THE OUTSIDE EDGES AND JOINTS TRIMMED WITH A 1/4-INCH RADIUS EDGING TOOL.
4. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
5. MINIMUM FLOWLINE SLOPE IN CURB RETURN IS 0.5%, UNLESS OTHERWISE NOTED.
6. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
7. CONSTRUCT SIDEWALK ADJACENT TO CURB RAMP PER THE TYPICAL SECTIONS SHOWN ON THE "C" SHEETS.
8. PAYMENT FOR ALL PCC CURB AND GUTTER, INCLUDING MODIFIED AND TRANSITIONAL CURB, SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB & GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
9. FORM BACKING CURB AS DIRECTED BY THE ENGINEER TO MATCH EXISTING GROUND. PAYMENT FOR THIS CURB SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. IF EXISTING GROUND BEHIND SIDEWALK IS GRAVEL OR GRASS, GRADE TO MATCH EXISTING GROUND. PAYMENT FOR GRADING SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. 4" TOPSOIL AND SEEDING SHALL BE PLACED ON DISTURBED GRASS AREAS.
10. CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. INSTALL YELLOW ADA APPROVED DETECTABLE WARNINGS (DW) PANELS UNLESS OTHERWISE NOTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. THERE SHALL BE NO LIP AT THE EDGE OF THE DETECTABLE CURB WARNINGS. SEE DETAIL 4, SHEET D2.
12. DETECTABLE WARNINGS DOMES AT PARALLEL CURB RAMPS SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINATE DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
13. RAMP LOCATIONS MAY BE ADJUSTED TO ENSURE MINIMUM 48" CLEARANCE AROUND APPURTENANCES SUCH AS SIGNAL POLES, POWER POLES, LIGHT POLES, J-BOXES, SIGNS, CATCH BASINS AND MANHOLES. PRIOR TO PLACEMENT OF CONCRETE AND APPURTENANCES, THE RAMP LAYOUT AND LOCATION SHALL BE APPROVED BY THE ENGINEER.
14. GAP BETWEEN DETECTABLE WARNING PANELS AND BACK OF CURB ONLY ALLOWABLE AT CENTER OF CURB RAMPS. CORNERS OF DETECTABLE WARNINGS SHALL BE FLUSH WITH BACK OF CURB. IF REQUIRED BY THE ENGINEER CONTRACTOR SHALL CUT DETECTABLE WARNING PANELS PER THE MANUFACTURER'S RECOMMENDATIONS. CUTTING DW PANELS SHALL BE INCIDENTAL TO 30.04 DETECTABLE WARNINGS PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.

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PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
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3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
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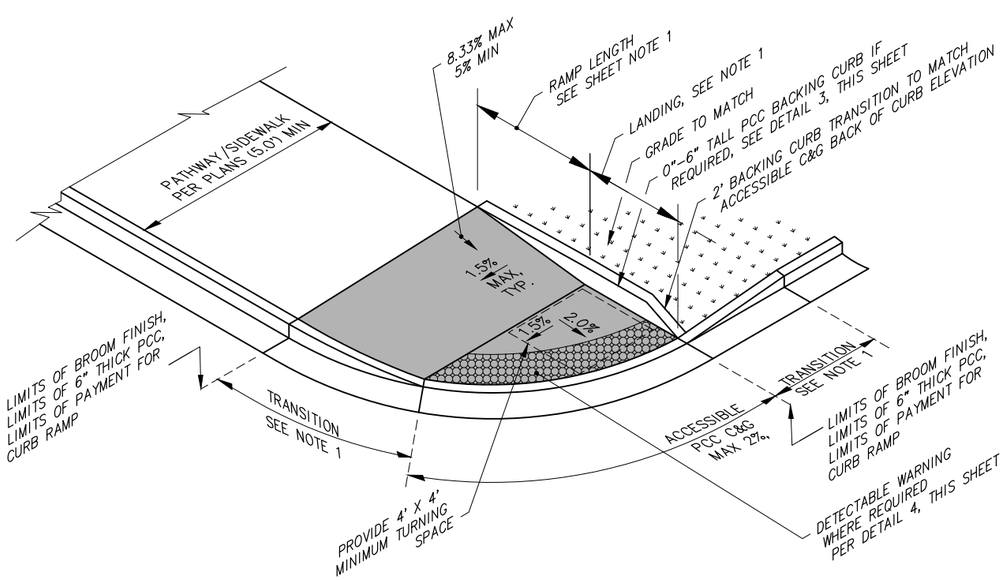
19-08 — LOIS DRIVE RECONSTRUCTION — SCHED A
BENSON BOULEVARD TO 32ND AVENUE

ROADWAY DETAILS

CURB RAMPS & NECKDOWN

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET D1 of D6

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Details.dwg

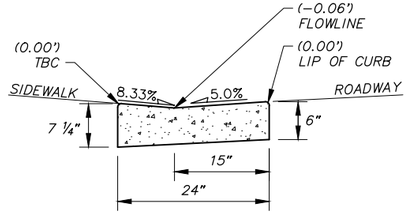


UNIDIRECTIONAL CURB RAMP NOTES:

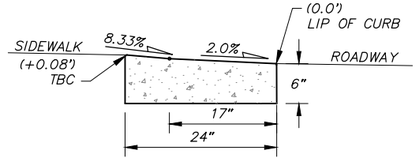
1. SEE SHEET NOTES ON SHEET D1.

1 UNIDIRECTIONAL CURB RAMP

SCALE: NTS



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



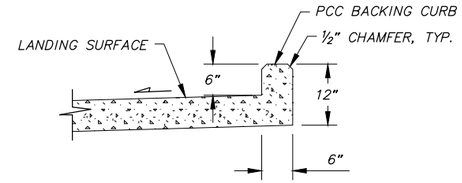
PCC CURB AND GUTTER TYPE 3A
FOR USE IN CURB RAMPS WITH TYPE 3 C&G OR WHERE SPECIFIED ON THE PLANS.

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.

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

SCALE: NTS



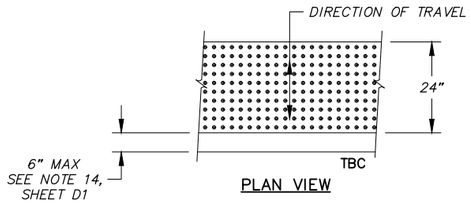
MONOLITHIC

BACKING CURB DETAIL NOTES:

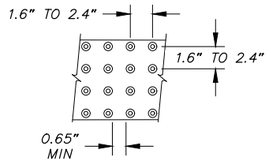
1. THE TOP OF BACKING CURB SHALL TRANSITION BACK TO TOP OF SIDEWALK AT TOP RAMP SECTION OF CURB RAMP.

3 BACKING CURB DETAIL

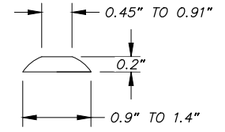
SCALE: NTS



PLAN VIEW



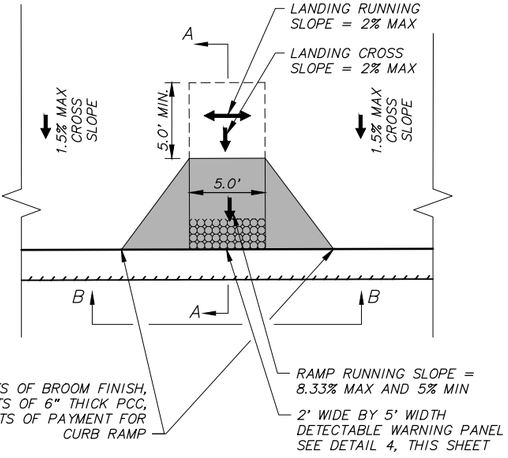
DOME PLAN



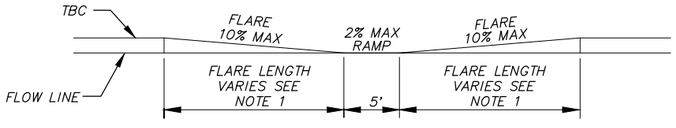
DOME SECTION

4 DETECTABLE WARNING PANEL

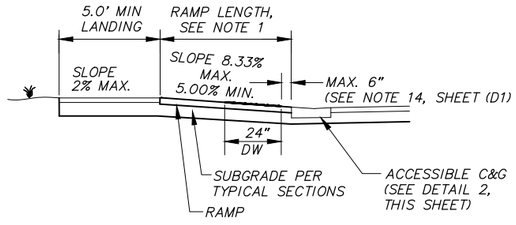
SCALE: NTS



PLAN VIEW



SECTION B-B



SECTION A-A

TYPICAL PERPENDICULAR CURB RAMP NOTES:

1. SEE SHEET NOTES ON SHEET D1.

5 TYPICAL PERPENDICULAR CURB RAMP

SCALE: N.T.S

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BENSON BOULEVARD TO 32ND AVENUE

ROADWAY DETAILS

CURB RAMPS

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET D2 of D6

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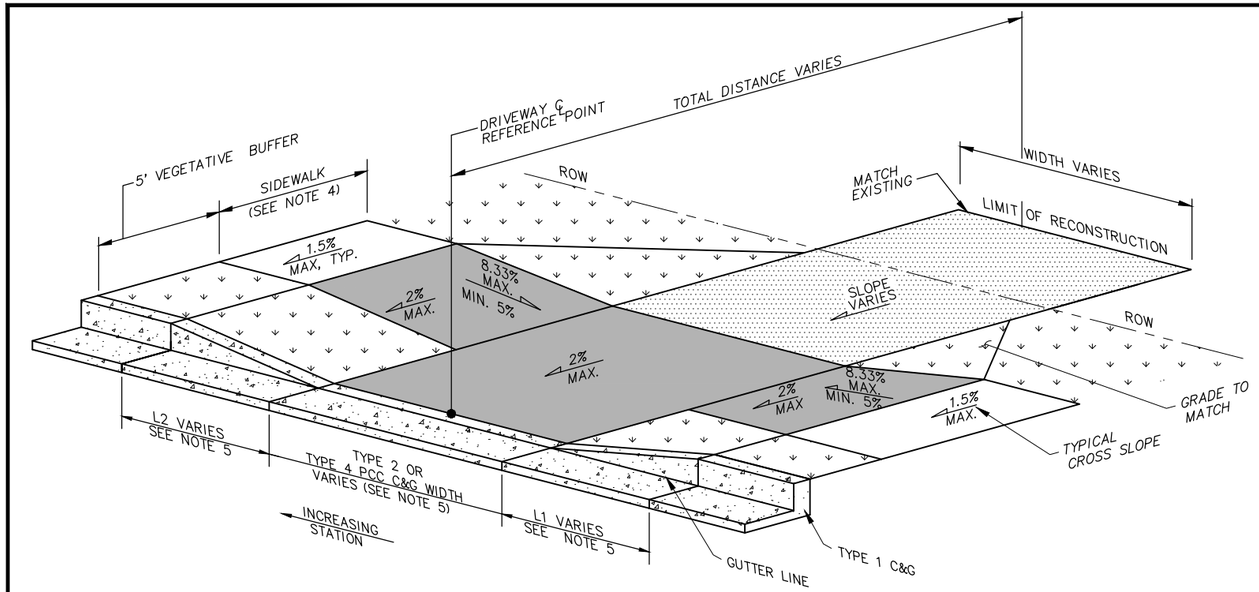


1 **TYPICAL DRIVEWAY CURB CUT WITH SIDEWALK & BUFFER**

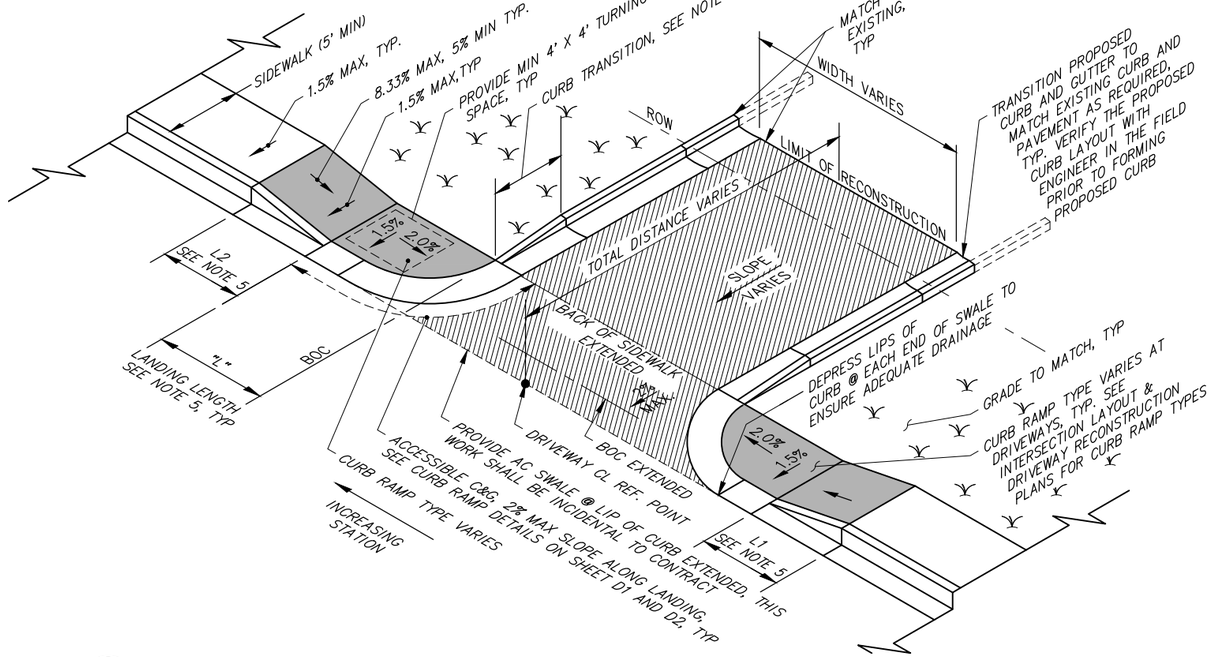
SCALE: NTS

SHEET DRIVEWAY NOTES:

1. ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.
2. PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER, (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.
3. CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES.
4. INCREASE SIDEWALK THICKNESS TO 6" ACROSS LANDINGS AND RAMP TRANSITIONS AND ADD WELDED STEEL WIRE REINFORCEMENT PER THE SPECIFICATIONS.
5. SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLE "T" SHEETS AND DRIVEWAY RECONSTRUCTION PLANS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.
6. WHERE INSULATION IS INSTALLED IN ROADWAY, INSTALL INSULATION UNDER DRIVEWAY PER DETAIL 3, SHEET C4.

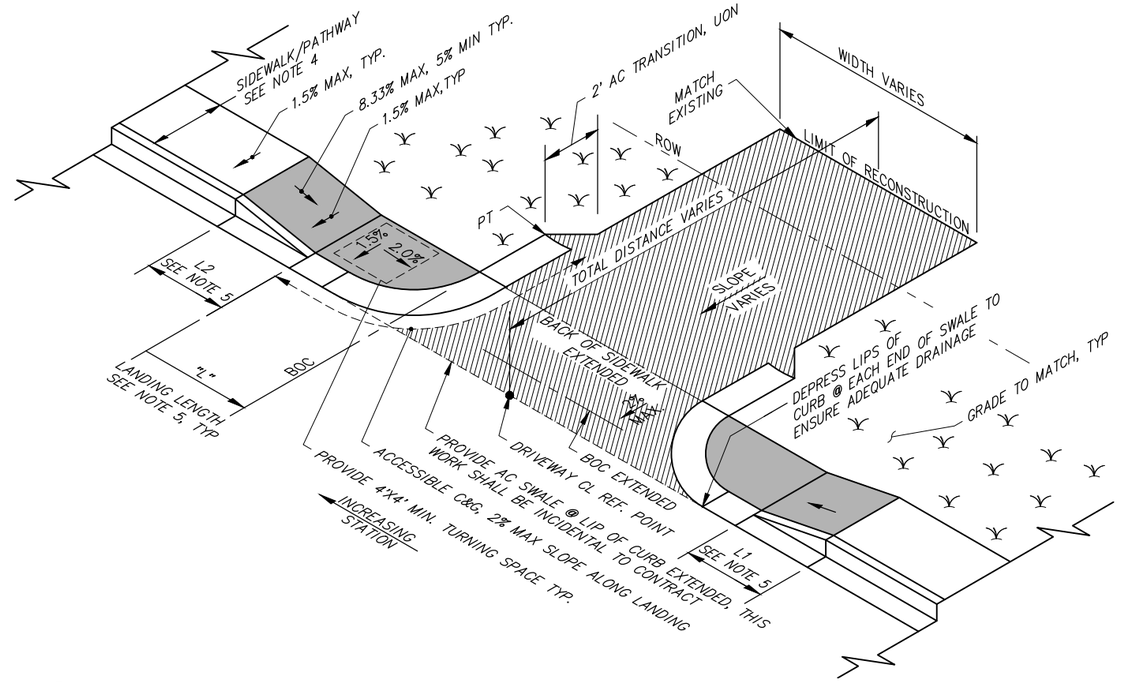
SHEET LEGEND:

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



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

SCALE: NTS



3 **TYPICAL DRIVEWAY CURB RETURN WITHOUT CONNECTING CURB**

SCALE: NTS

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

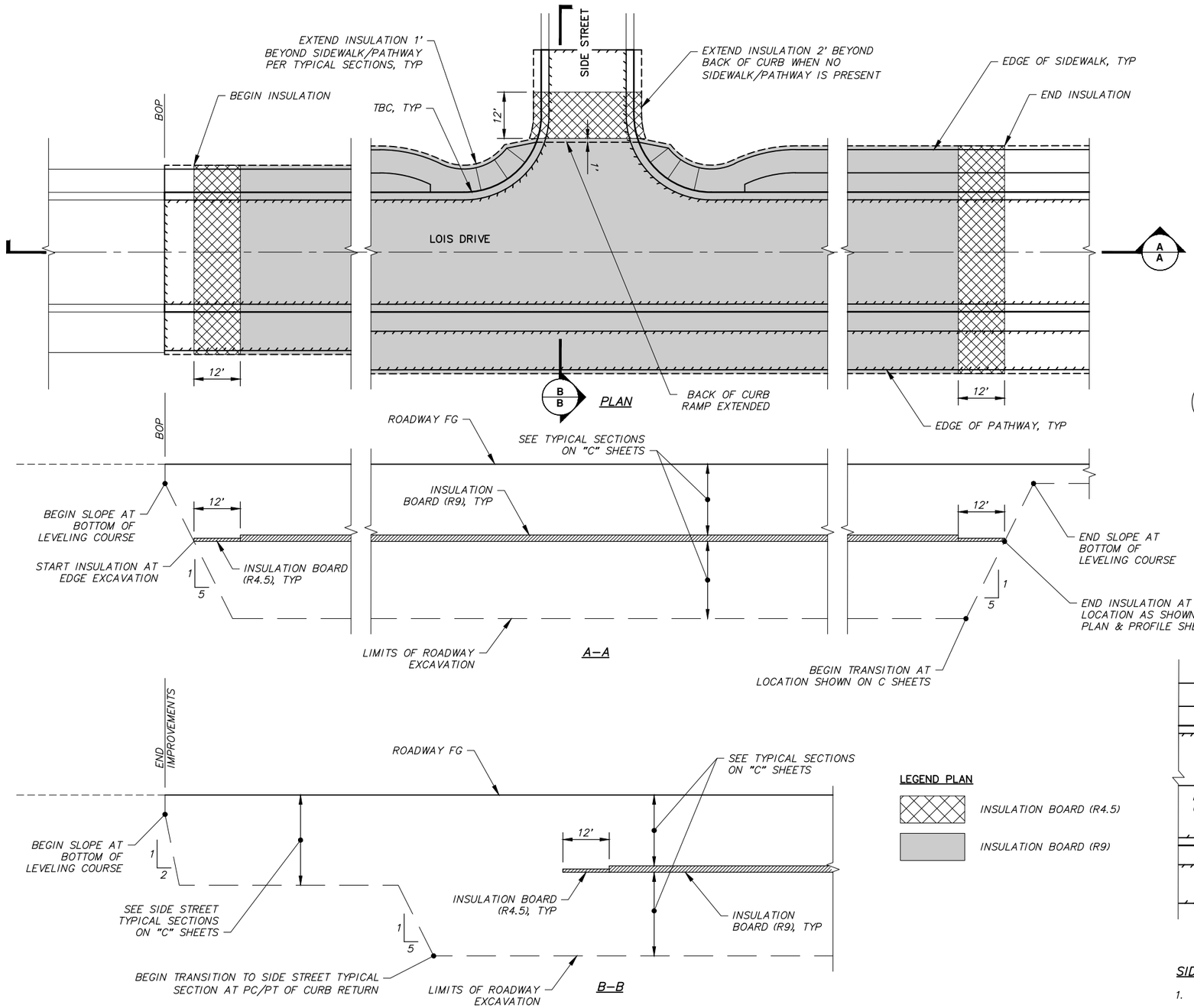
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

ROADWAY DETAILS

DRIVEWAYS

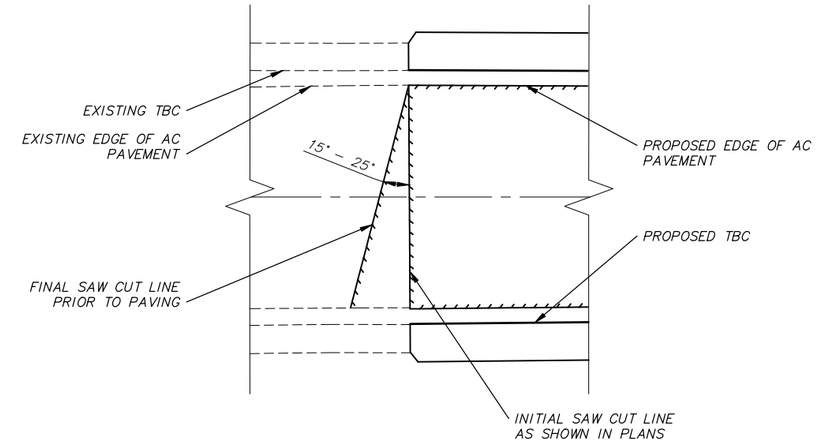
SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET D3 of D6

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Details.dwg



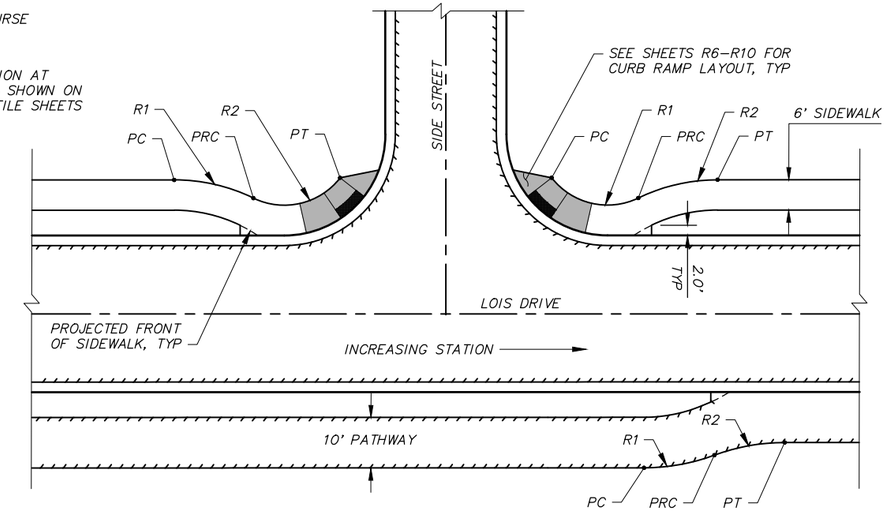
1 BOARD INSULATION AND EXCAVATION TRANSITION DETAIL

SCALE: NTS



2 TRANSVERSE SAW CUT JOINT DETAIL

SCALE: NTS



3 SIDEWALK/PATHWAY TRANSITION DETAIL

SCALE: NTS

SIDEWALK/PATHWAY TRANSITION DETAIL NOTES:

1. *SEE SIDEWALK/PATHWAY TRANSITION SUMMARY TABLE ON SHEET T3 FOR LAYOUT POINTS.*

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
3840	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

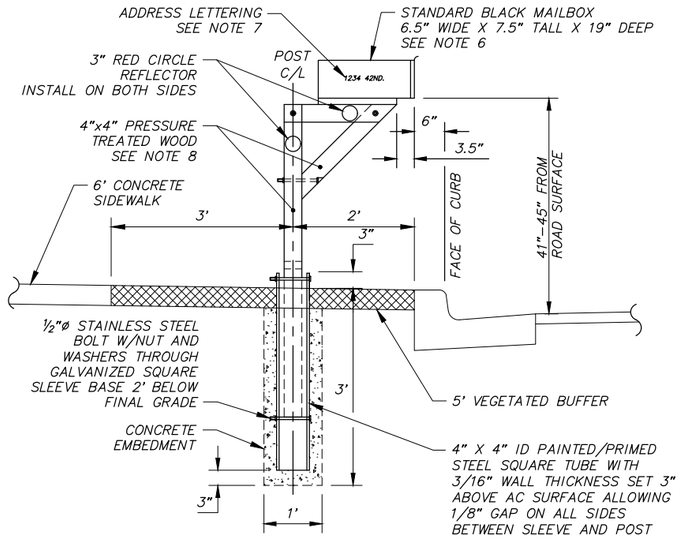
19–08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

ROADWAY DETAILS

MISCELLANEOUS DETAILS

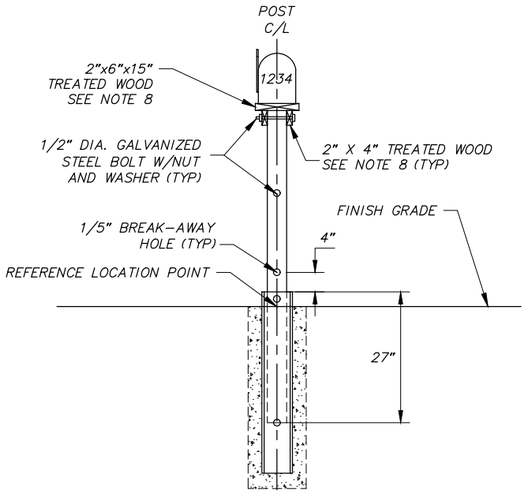
SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET D4 of D6

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Details.dwg



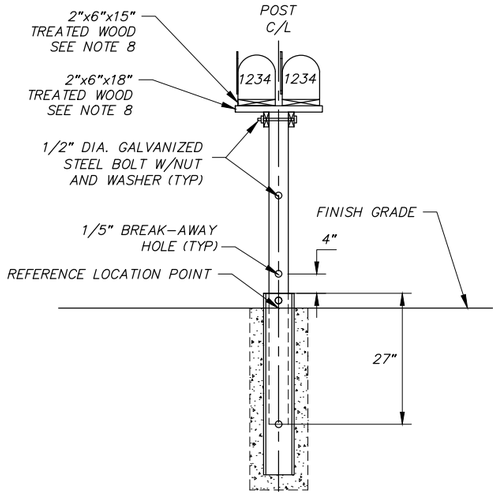
1 TYPICAL WOOD POST MAILBOX INSTALLATION (SIDE VIEW)

SCALE: NTS



2 TYPICAL SINGLE MAILBOX INSTALLATION (FRONT VIEW)

SCALE: NTS

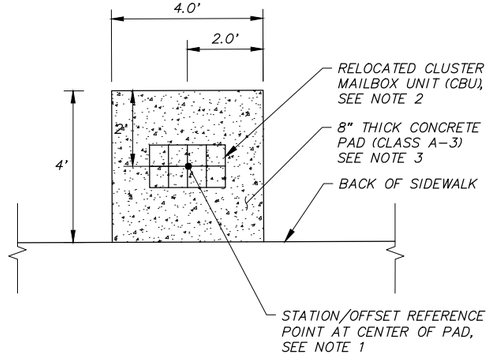


3 TYPICAL COMBINED MAILBOX INSTALLATION FOR 2 BOXES (FRONT VIEW)

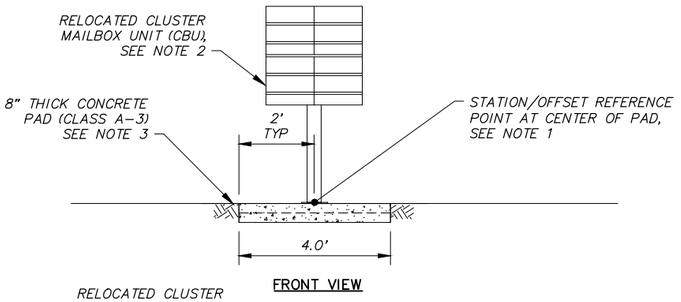
SCALE: NTS

TYPICAL WOOD POST MAILBOX INSTALLATION NOTES:

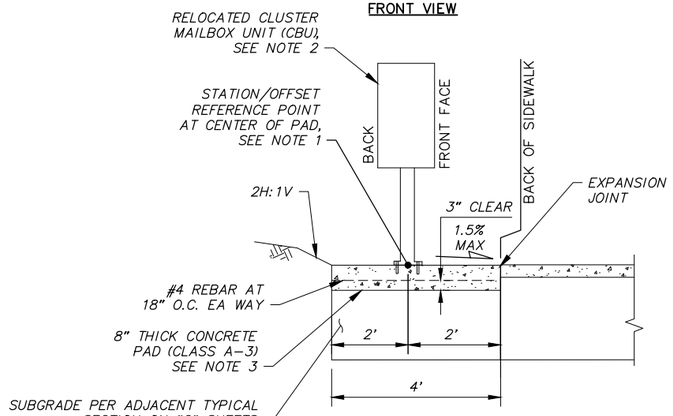
1. SEE "RELOCATE MAILBOX" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
2. RELOCATE COMBINED MAILBOXES TO THE PROPOSED STATION AND 2' BEHIND THE TOP BACK OF CURB.
3. CUT OFF EXCESS BOLTS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



PLAN VIEW



FRONT VIEW



SIDE VIEW

CLUSTER MAILBOX PCC BASE NOTES:

1. SEE "RELOCATE CLUSTER MAILBOX UNIT" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.
2. INSTALL CLUSTER MAILBOX UNIT ON CONCRETE PAD AS DIRECTED BY ENGINEER IN THE FIELD. USPS MAY REQUEST TO REPLACE EXISTING CLUSTER MAILBOX UNIT, COORDINATE WITH ENGINEER PRIOR TO INSTALLATION OF RELOCATED CLUSTER MAILBOX UNIT.
3. CLUSTER MAILBOX BASE SHALL BE PAID UNDER 30.08 P.C.C. CLUSTER MAILBOX BASE.

4 CLUSTER MAILBOX PCC BASE DETAIL

SCALE: NTS

RECORD DRAWING

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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

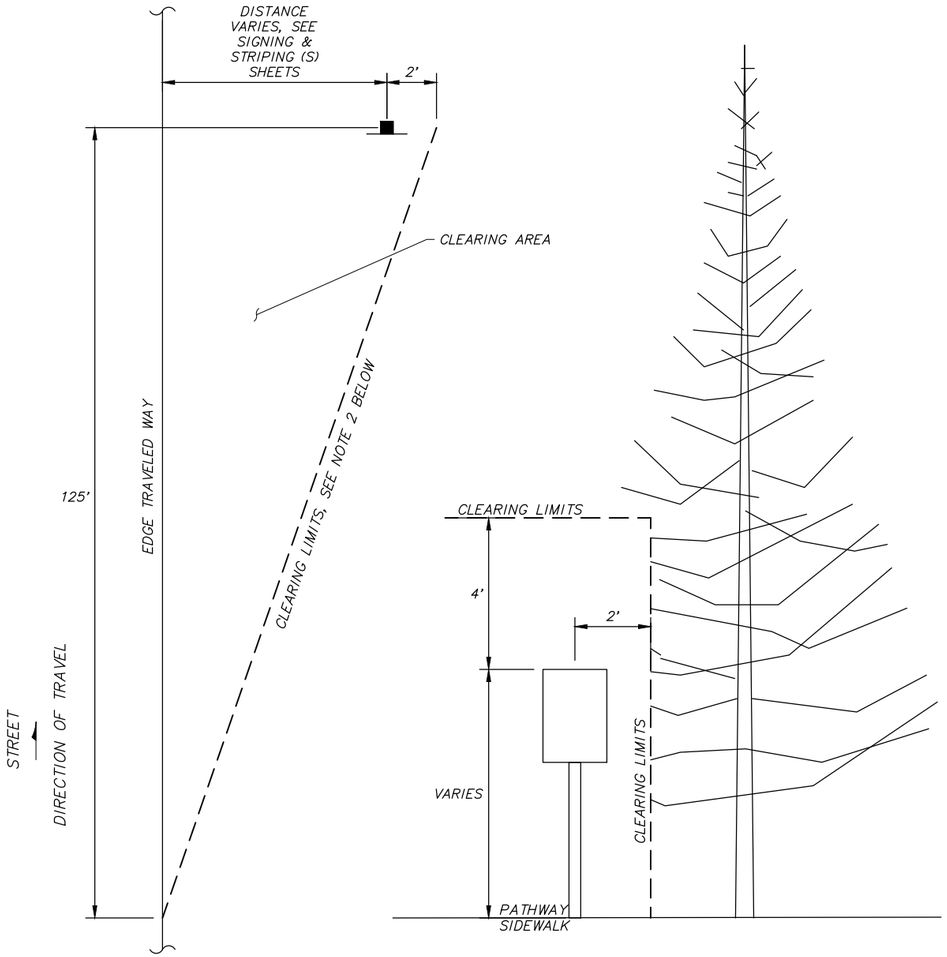
19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED A

ROADWAY DETAILS

MAILBOXES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET D5 of D6

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Details.dwg



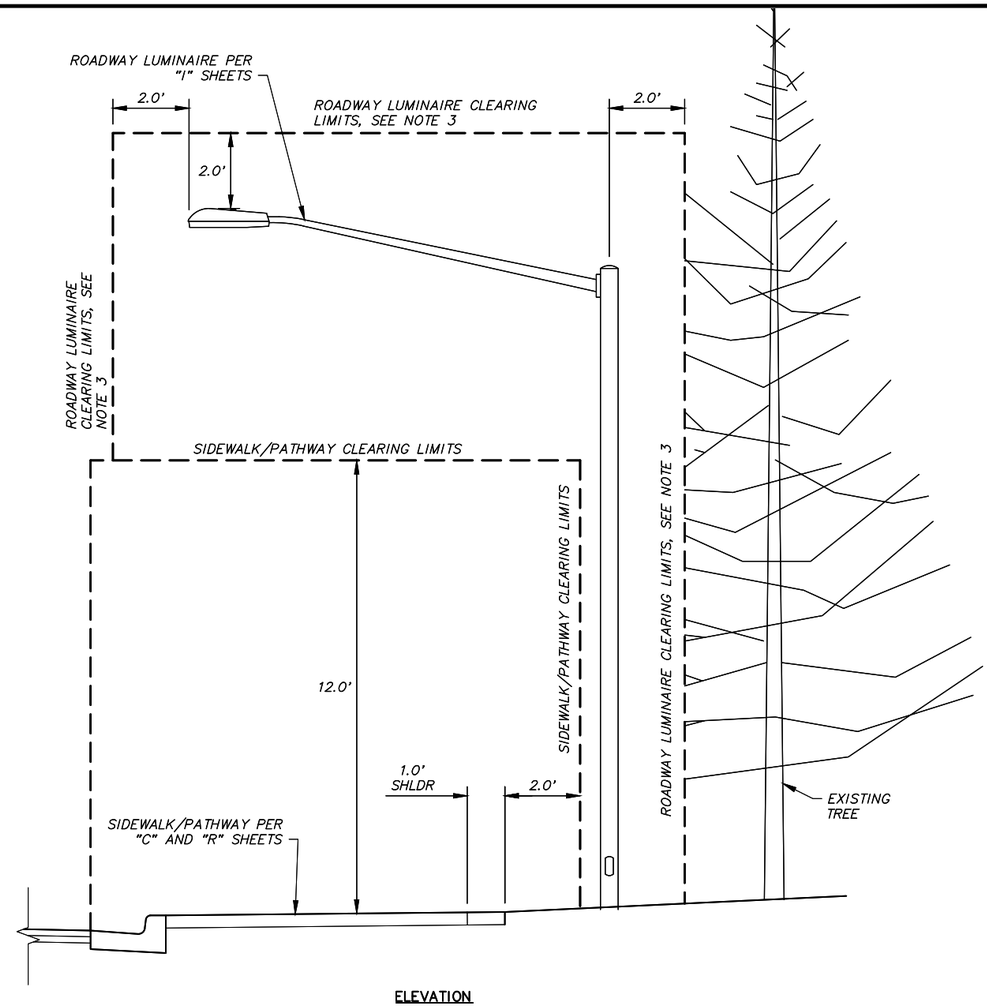
PLAN ELEVATION

SIGN SIGHT DISTANCE CLEARING DETAIL NOTES:

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

1 SIGN SIGHT DISTANCE CLEARING DETAIL

SCALE: NTS



ELEVATION

SIDEWALK/PATHWAY AND ROADWAY LUMINAIRE CLEARING DETAIL NOTES:

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

2 SIDEWALK/PATHWAY AND ROADWAY LUMINAIRE CLEARING DETAIL

SCALE: NTS

RECORD DRAWING

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PLAN CHECK

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TOPOGRAPHY	BB	BW
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ELECTRIC	TK	JK
DESIGN	RB	JK
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CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
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ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

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REVISIONS

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

STATE OF ALASKA 49 TH
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

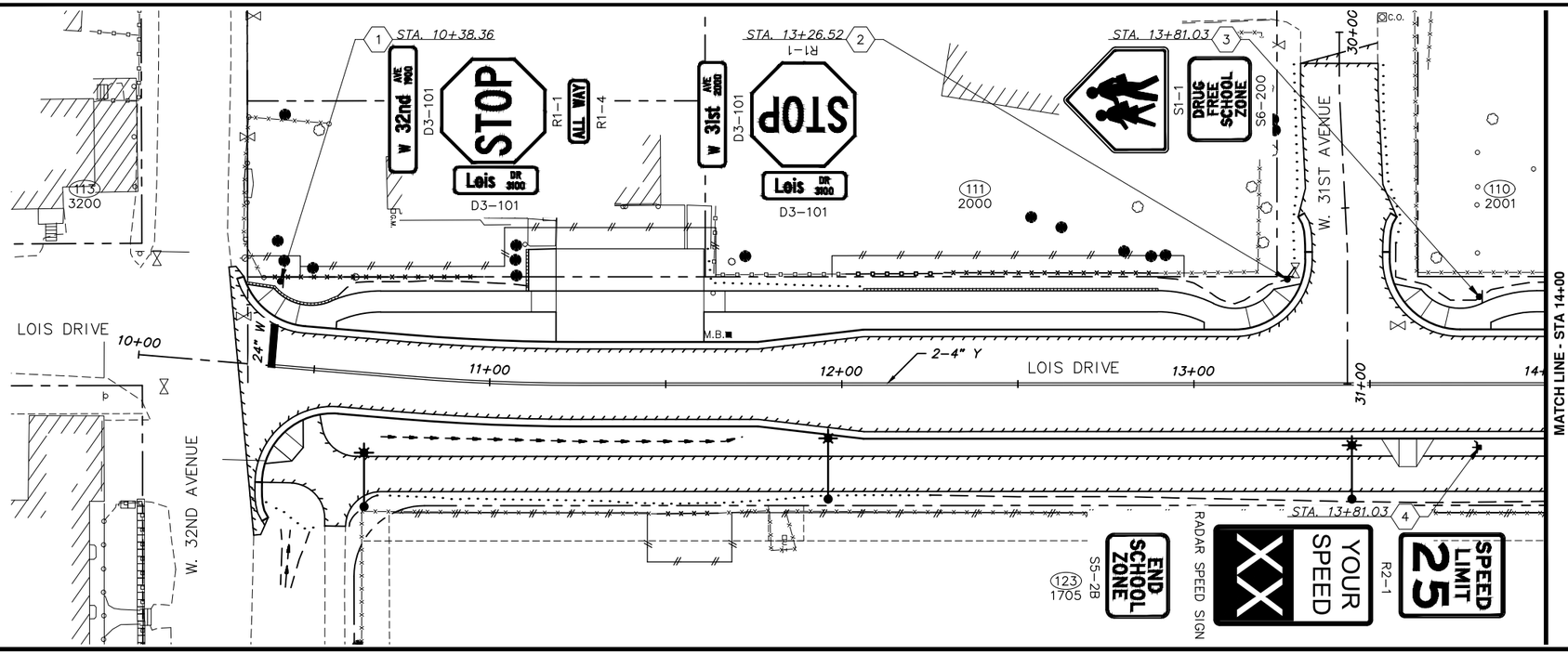
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

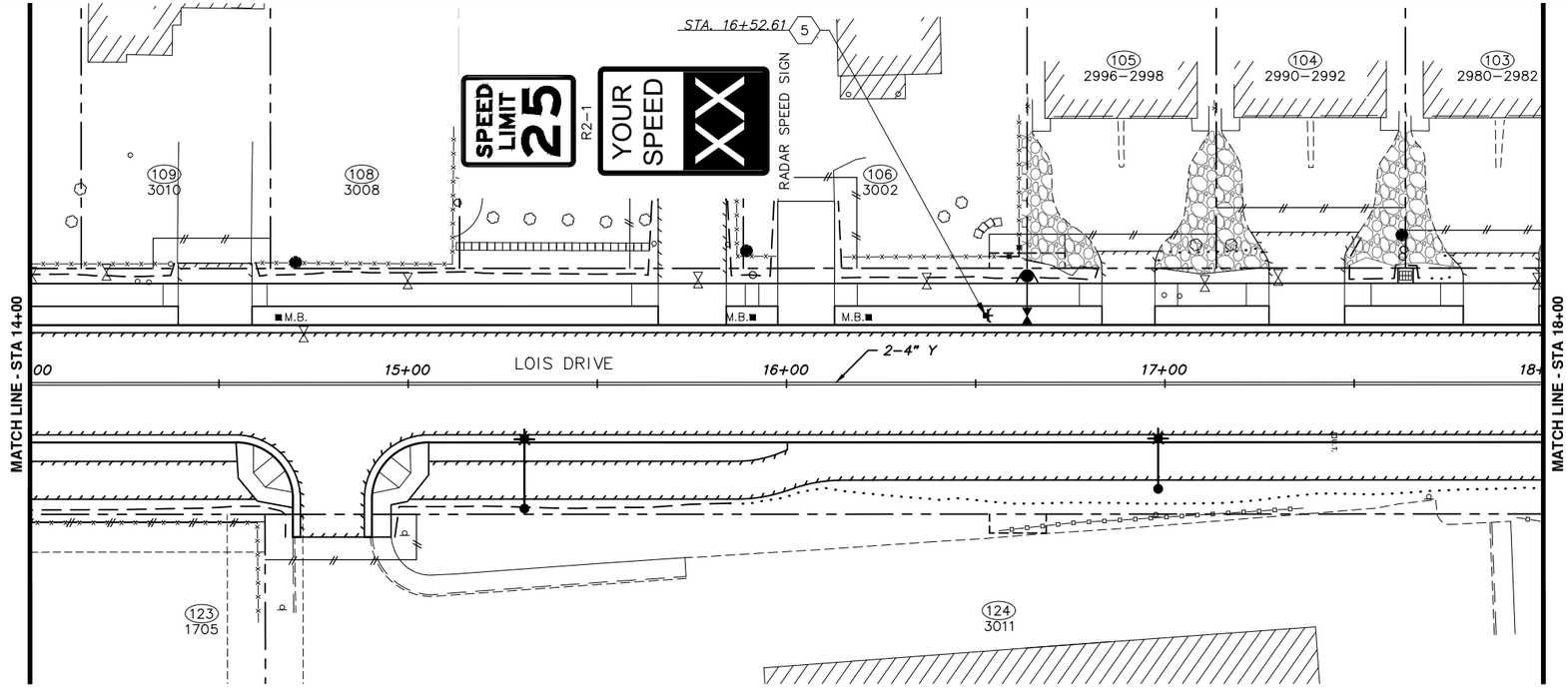
ROADWAY DETAILS

CLEARING

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET D6 of D6

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Roadway Details.dwg





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TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
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ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

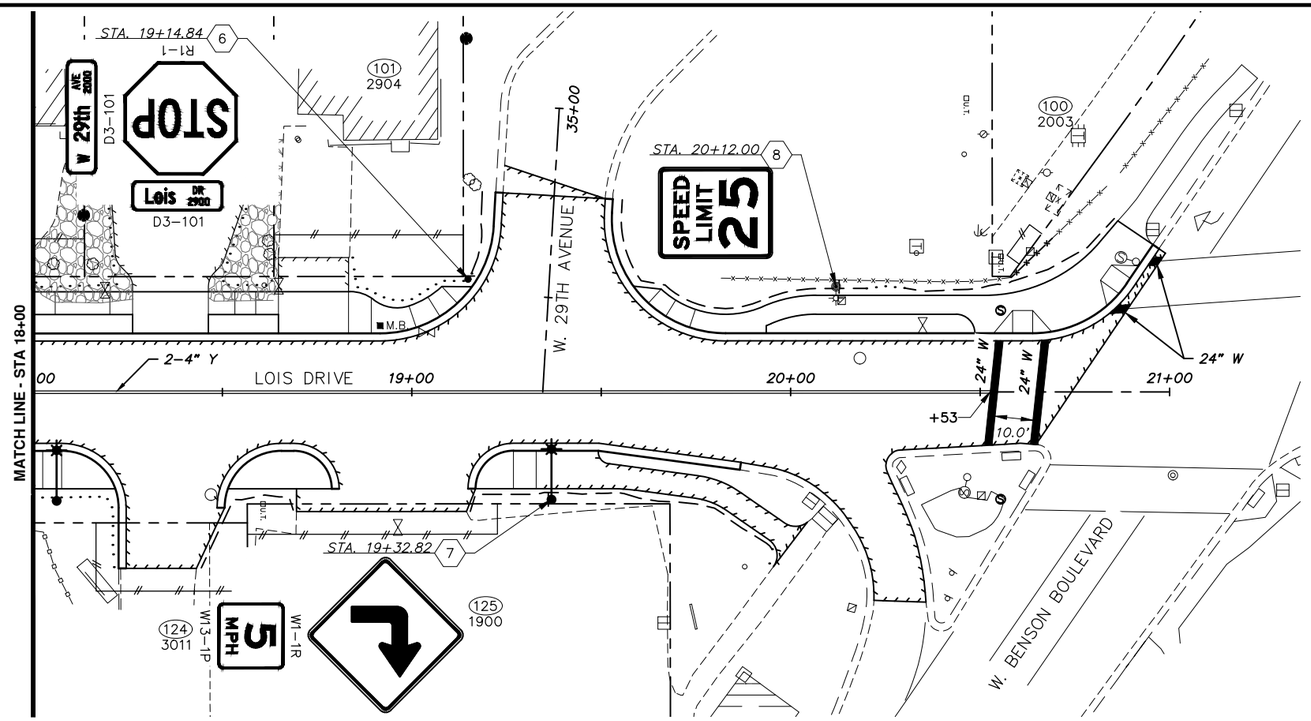
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSON BOULEVARD TO 32ND AVENUE

SIGNING & STRIPING

BOP TO STA 18+00

SCALE HOR. 1"=20' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET S1 of S2

File: J:\Jobs\Data\101145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\101145.00 Signing & Striping.dwg



85.04

STANDARD SIGN

SHEET NO.	POST NO.	STATION	OFFSET (FT)	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
S1	1	10+38.36	24.1 LT	D3-101	LOIS DR 3100	24	8	1.33	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	W 32ND AVE 1900	36	8	2.00	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N	2.5" PST	
				R1-4	ALL WAY	18	6	0.75	N	2.5" PST	
	2	13+26.52	29.7 LT	D3-101	LOIS DR 3100	24	8	1.33	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	W 31ST AVE 2000	30	8	1.67	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	W	2.5" PST	
	3	13+81.03	24.8 LT	S1-1	SCHOOL	36	36	9.00	N	2.5" PST	
				S6-200	DRUG FREE SCHOOL ZONE	24	18	3.00	N	2.5" PST	
	4	13+81.03	18.0 RT	–	RADAR SPEED SIGN	–	–	–	S	–	MOUNT ON BREAKAWAY POLE PER MASS DETAIL 80-17A&B
				R2-1	SPEED LIMIT 25 MPH	24	30	5.00	S	–	
				S5-2B	END SCHOOL ZONE	24	18	3.00	S	–	
	5	16+52.61	18.0 LT	–	RADAR SPEED SIGN	–	–	–	N	–	MOUNT ON BREAKAWAY POLE PER MASS DETAIL 80-17A&B
				R2-1	SPEED LIMIT 25 MPH	24	30	5.00	N	–	
S2	6	19+14.84	29.8 LT	D3-101	LOIS DR 2900	24	8	1.33	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-101	W 29TH AVE 2000	30	8	1.67	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	W	2.5" PST	
	7	19+32.82	27.5 RT	W1-1R	RIGHT TURN	30	30	6.25	S	2.5" PST	
				W13-1P	5 MPH	18	18	2.25	S	2.5" PST	
	8	20+12.00	27.8 LT	R2-1	SPEED LIMIT 25 MPH	24	30	5.00	N	–	MOUNT ON LIGHT POLE

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 85-14 & 85-15.*
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 INLAID METHYL METHACRYLATE PAINT OF THE COLORS AND WIDTHS SPECIFIED FOR THE TRAFFIC MARKINGS INDICATED ON THE DRAWINGS.*
3. *OBLITERATE AND REPLACE ALL STRIPING DAMAGED BY CONTRACTORS OPERATIONS.*
4. *INSTALL 24" WIDE STOP BARS PER MASS STANDARD DETAILS 85-14 & 85-15.*

RECORD DRAWING

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

CONSTRUCTION RECORD

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

PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

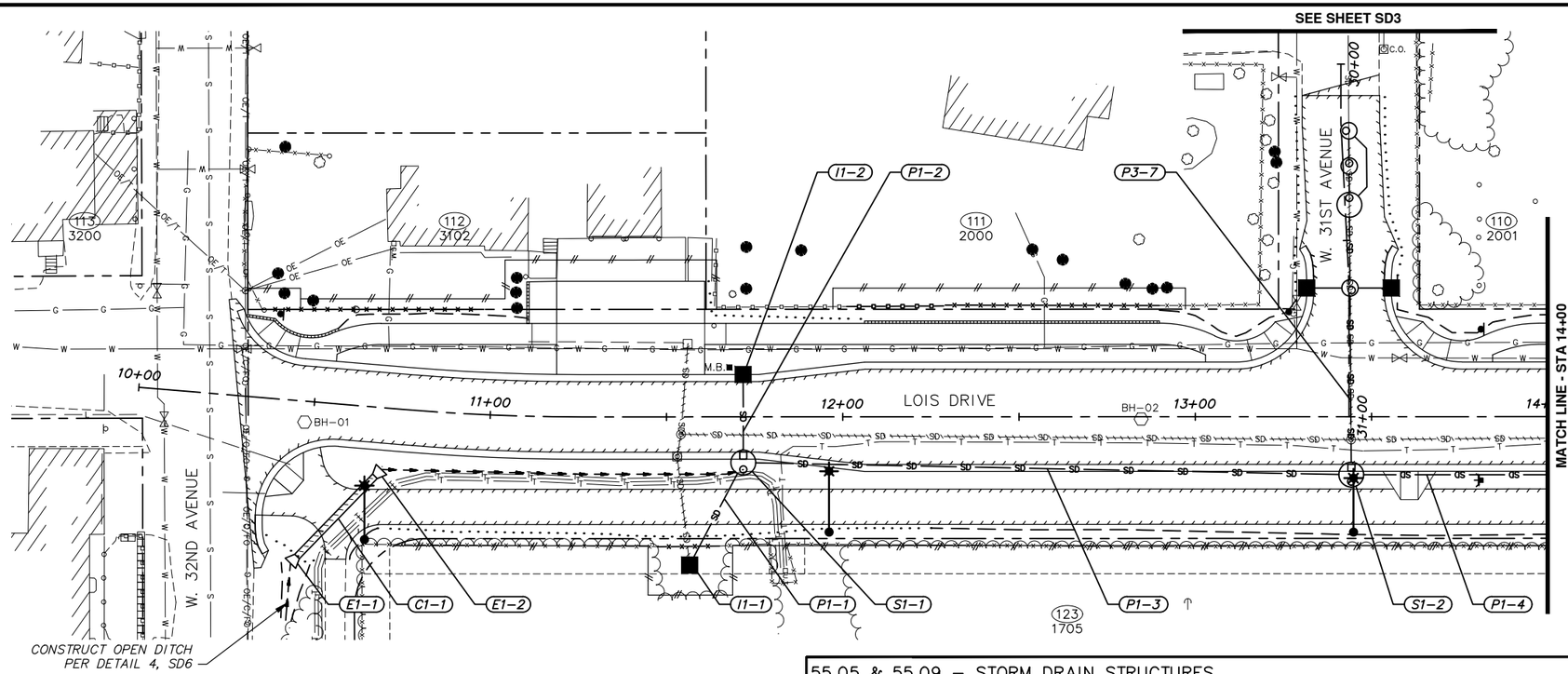
19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED A

SIGNING & STRIPING

STA 18+00 TO EOP

SCALE HOR. 1"=20' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET S2 of S2

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Signing & Striping.dwg



NOTES:

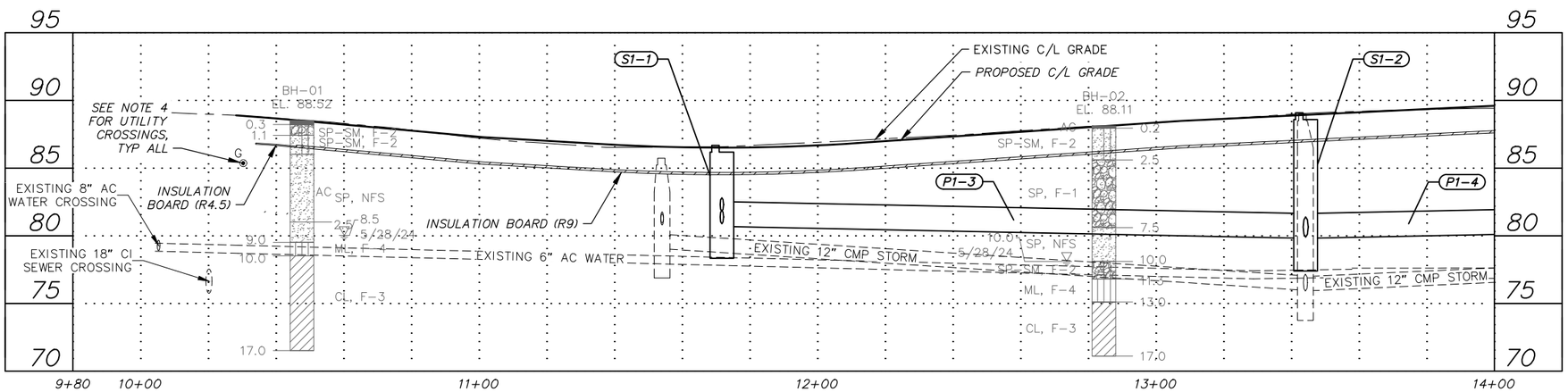
1. *AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARIFY.*
2. *REFER TO SHEET SD4 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD4–SD7 FOR STORM DRAIN DETAILS AND SUMMARY TABLES.*
4. *CAUTION!!! THE LOCATION OF EXISTING UTILITY CROSSINGS SHOWN IN PROFILE ARE APPROXIMATE. CONTRACTOR SHALL PROTECT AND SHORE EXISTING UTILITIES IN PLACE WHERE NECESSARY OR AS NOTED. EXISTING UTILITIES IN CONFLICT WITH PROPOSED IMPROVEMENTS WILL BE RELOCATED BY OTHERS. SEE SPECIFICATIONS FOR MORE INFORMATION.*
5. *GRADE SURROUNDING AREA NEAR END SECTION TO PROVIDE POSITIVE DRAINAGE TO/FROM INLET AND OUTLET.*
6. *THE HORIZONTAL AND VERTICAL REFERENCE POINTS FOR THE CULVERT ARE LOCATED AT END OF FLARED END SECTIONS.*

55.02 & 55.20 – STORM DRAIN & CULVERT PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
C1–1	18	CPEP, TYPE S	37.05	E1–1	E1–2	87.53	86.90	1.70%
P1–1	12	CPEP, TYPE S	32.81	I1–1	S1–1	81.03	80.89	0.50%
P1–2	12	CPEP, TYPE S	24.95	I1–2	S1–1	82.21	81.81	2.01%
P1–3	18	CPEP, TYPE S	172.52	S1–1	S1–2	80.84	80.00	0.50%
P1–4	18	CPEP, TYPE S	107.78	S2–1	S1–2	80.51	80.00	0.50%

55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
E1–1	END SECTION	–	10+47.01	46.13' RT	–	N/A	SEE NOTE 5 & 6
E1–2	END SECTION	–	10+70.52	17.50' RT	–	N/A	SEE NOTE 5 & 6
I1–1	CB	FI	11+56.54	42.03' RT	84.20	N/A	BEEHIVE INTAKE, SEE DETAIL 1, SHEET SD6
S1–1	CB MH II	CI / FI	11+71.75	12.95' RT	86.71	1	SEE DETAIL 2, SHEET SD6
I1–2	CB	CI	11+71.75	12.00' LT	86.71	1	
S1–2	CB MH II	CI / MH	13+44.23	16.45' RT	89.06	1	



RECORD DRAWING

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PLAN CHECK

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

GRAPHIC SCALE 40 20 0 20 40

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

SEAL

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19–08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED B

STORM DRAIN PLAN & PROFILE

BOP TO STA 14+00

SCALE HOR. 1"=20' VER. 1"=5' | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET SD1 of SD7

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Storm Drain Plan & Profile.dwg

NOTES:

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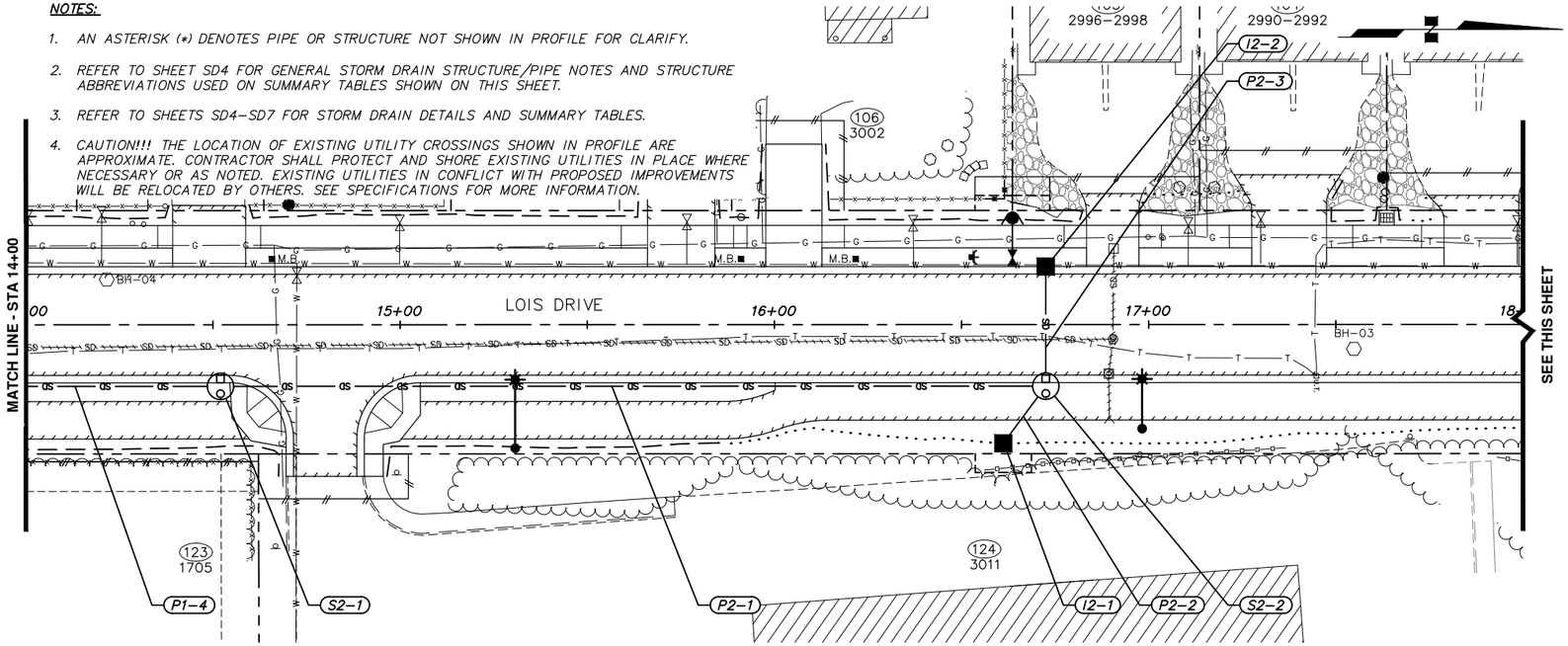
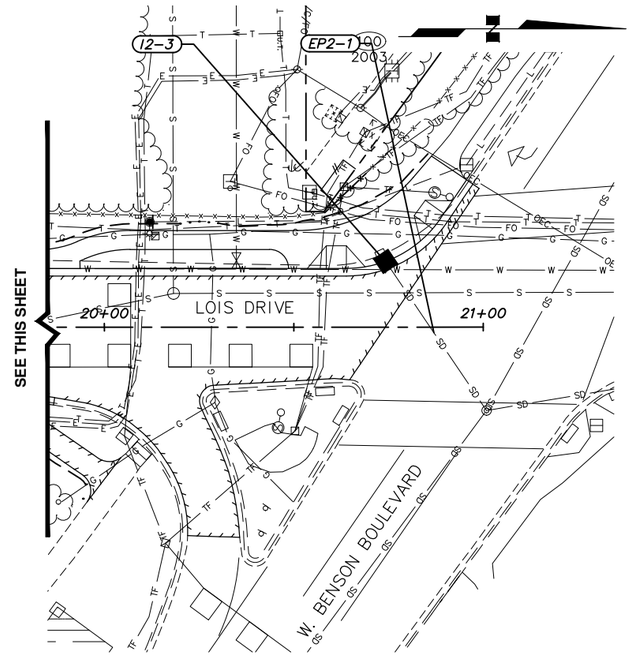


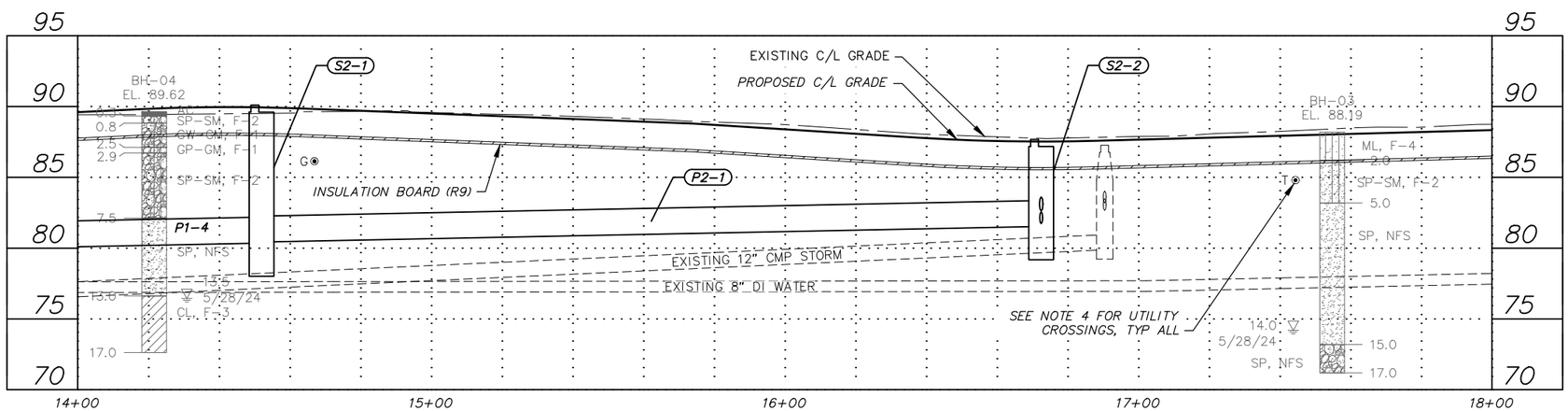


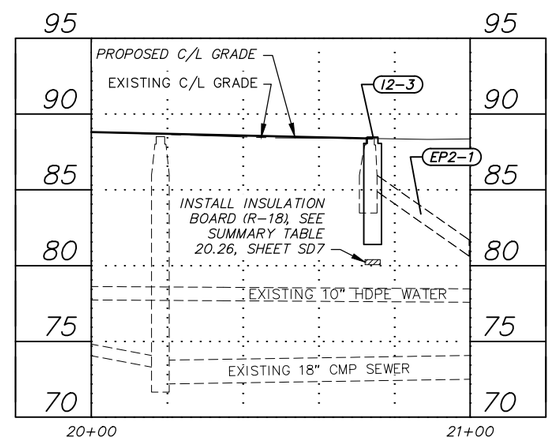
55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P2–1	18	CPEP, TYPE S	220.49	S2–2	S2–1	81.68	80.61	0.50%
P2–2	10	CPEP, TYPE S	19.02	I2–1	S2–2	81.80	81.73	0.50%
P2–3	12	CPEP, TYPE S	31.95	I2–2	S2–2	83.16	82.62	2.00%
EP2–1	12	RCP	–	I2–3	–	±84.9	–	–

55.04, 55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S2–1	CB MH II	CI / MH	14+52.01	16.45' RT	90.07	1	
I2–1	CB	FI	16+61.14	31.71' RT	85.72	N/A	BEEHIVE INTAKE, SEE DETAIL 1, SHEET SD6
S2–2	CB MH II	CI / MH	16+72.50	16.45' RT	87.66	1	
I2–2	CB	CI	16+72.50	15.50' LT	87.66	1	
I2–3	CB / CONNECT	CI	20+74.25	17.35' LT	88.48	1	CONNECT EXISTING PIPE (EP2–1). SEE DETAIL 1, SHEET SD7





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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

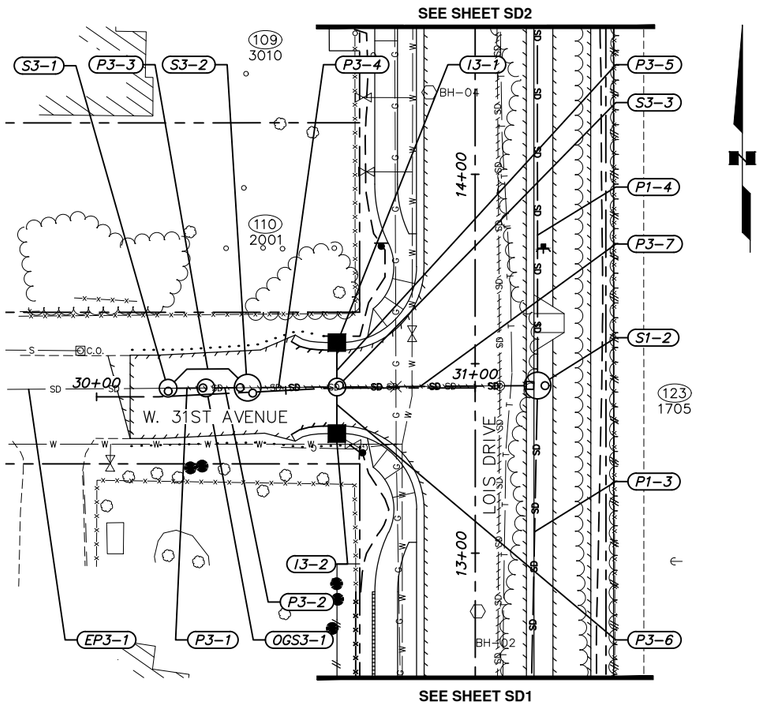
19–08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED B

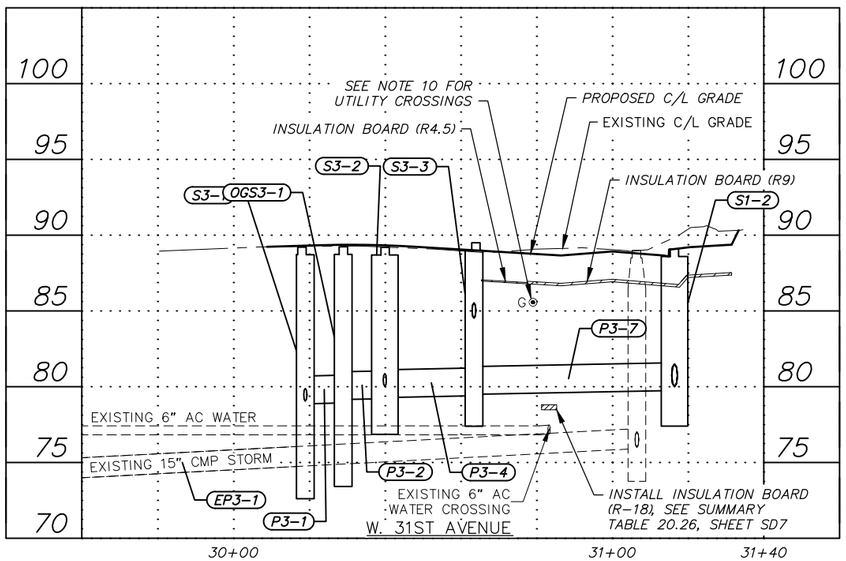
STORM DRAIN PLAN & PROFILE

STA 14+00 TO STA EOP

SCALE HOR. 1"=20' VER. 1"=5' | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET SD2 of SD7

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Storm Drain Plan & Profile.dwg





NOTES:

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3. *REFER TO SHEETS SD4–SD7 FOR STORM DRAIN DETAILS AND SUMMARY TABLES.*
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5. *CPEP FITTINGS I.A.W. MASS SECTION 55.02 SHALL BE USED FOR BYPASS PIPING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. LOCATION OF FITTINGS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE FITTINGS WITH ENGINEER'S APPROVAL TO MINIMIZE CONFLICTS WITH OTHER UTILITIES AND OBSTRUCTIONS. CONCRETE THRUST BLOCKS I.A.W. MASS STANDARD DETAIL 60–06 SHALL BE INSTALLED AT ALL FITTINGS. PAYMENT FOR THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 55.02.*
6. *REFER TO SHEET SD5 FOR OGS AND BYPASS STRUCTURE DETAILS.*
7. *CONTRACTOR SHALL PERFORM TESTING I.A.W. MASS SECTION 50.02 (SANITARY SEWER PIPE) FOR WATERTIGHT STORM DRAIN PIPE.*

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
EP3–1	15	CMP	–	S3–1	–	74.8±	–	–
P3–1	18	CPEP, TYPE S	10.00	OGS3–1	S3–1	79.08	79.05	0.50%
P3–2	18	CPEP, TYPE S	11.00	S3–2	OGS3–1	79.36	79.33	0.50%
P3–3**	10	CPEP, TYPE S	25.14	S3–2	S3–1	80.03	79.05	4.87%
P3–4	18	CPEP, TYPE S	23.56	S3–3	S3–2	79.56	79.46	0.54%
P3–5	12	CPEP, TYPE S	11.74	I3–1	S3–3	84.68	84.52	2.07%
P3–6	12	CPEP, TYPE S	12.26	I3–2	S3–3	84.70	84.53	2.06%
P3–7***	18	CPEP, TYPE S	52.95	S1–2	S3–3	79.90	79.66	0.50%

** OGS1–1 MAINTENANCE BYPASS PIPE, SEE NOTE 5.

*** INSTALL WATERTIGHT PIPE, SEE NOTE 7.

55.04, 55.05, 55.09 & 55.22 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S3–1	MH I / CONNECT	MH	30+18.99	2.13' LT	89.32	N/A	
OGS3–1	OGS	MH	30+28.98	1.70' LT	89.32	N/A	SEE DETAIL 2, SHEET SD5
S3–2	MH II / BYPASS	MH	30+39.97	1.23' LT	89.27	N/A	SEE DETAIL 1, SHEET SD5
S3–3	MH I	MH	30+63.50	0.26' LT	88.93	N/A	
I3–1	CB	CI	30+63.50	12.00' LT	89.18	1	
I3–2	CB	CI	30+63.50	12.00' RT	89.20	1	

RECORD DRAWING

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PLAN CHECK

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

GRAPHIC SCALE 40 20 0 20 40

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

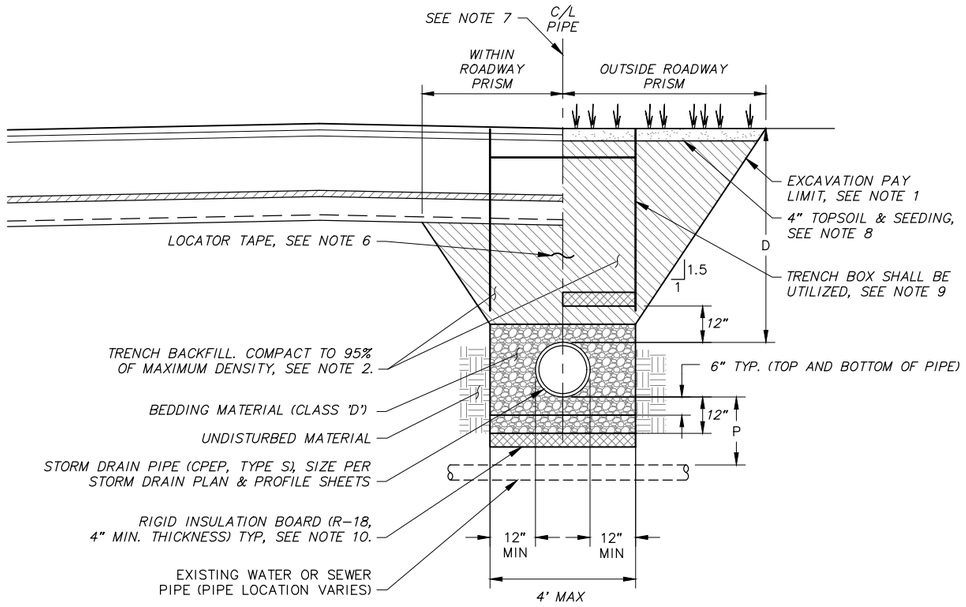
19–08 LOIS DRIVE RECONSTRUCTION SCHED B
BENSON BOULEVARD TO 32ND AVENUE

STORM DRAIN PLAN & PROFILE

W. 31ST AVENUE

SCALE HOR. 1"=20' VER. 1"=5' | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET SD3 of SD7

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Storm Drain Plan & Profile – Side Street.dwg



1 TYPICAL STORM DRAIN TRENCH SECTION

SCALE: NTS

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 THE TRAVEL LANE.
5. WHERE WATER AND STORM DRAIN MAINS CROSS, STORM DRAIN MAIN JOINTS SHALL BE AT LEAST 10 FEET FROM WATER MAIN JOINTS.
6. INSTALL DETECTABLE LOCATOR TAPE AT LEAST 24 INCHES BUT NO MORE THAN 36 INCHES ABOVE THE CROWN OF THE PIPE.
7. LOCATION OF STORM DRAIN VARIES WITHIN ROADWAY. INSTALL STORM DRAIN 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 DETAIL 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	HORZ CONTROL	REFERENCE ELEV.
TYPE I MH	CENTER OF MH	FG/TOP OF LID.
TYPE II MH	CENTER OF MH	FG/TOP OF LID.
TYPE II CB MH	CENTER OF MH	TBC @ MID. PT. OF CURB INLET HOOD
CATCH BASIN	CENTER OF CB	TBC @ MID. PT. OF CURB INLET HOOD
CB W/FIELD INLET	CENTER OF CB	FG/TOP OF FRAME

2. PIPE LENGTHS ARE BASED ON THE HORIZONTAL DISTANCE BETWEEN THE CENTER OF CONNECTING STRUCTURES OR FITTINGS. PIPE SLOPES ARE CALCULATED USING THE ACTUAL LENGTH OF PIPE FROM THE INSIDE FACE OF STRUCTURES.
3. UNLESS OTHERWISE NOTED, ALL STORM DRAIN MAIN PIPE SHALL BE CPEP, TYPE S.
4. THE FOLLOWING ABBREVIATIONS USED ON THE STORM DRAIN STRUCTURE TABLES ON THE PLAN & PROFILES SHEETS ARE DESCRIBED BELOW:
    - CB – CATCH BASIN
    - CB MH II – CATCH BASIN MANHOLE, TYPE II
    - FI – FIELD INLET
    - MH I – STORM DRAIN MANHOLE, TYPE I
    - 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
5. UNLESS OTHERWISE NOTED, ALL CATCH BASIN MANHOLES, TYPE II SHALL BE CONSTRUCTED I.A.W. WITH MASS STANDARD DETAIL 55-28 (DUAL ENTRY MANHOLE).

RECORD DRAWING

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PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 3839 &
3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

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

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

MUNICIPALITY OF ANCHORAGE

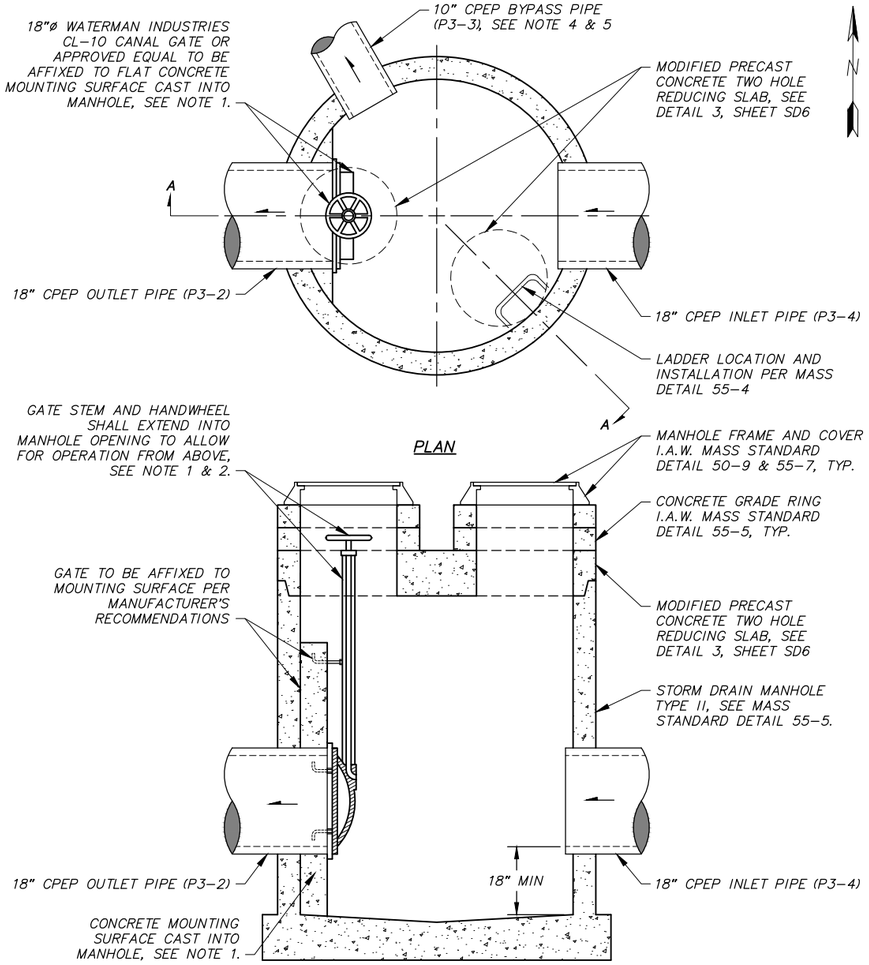
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

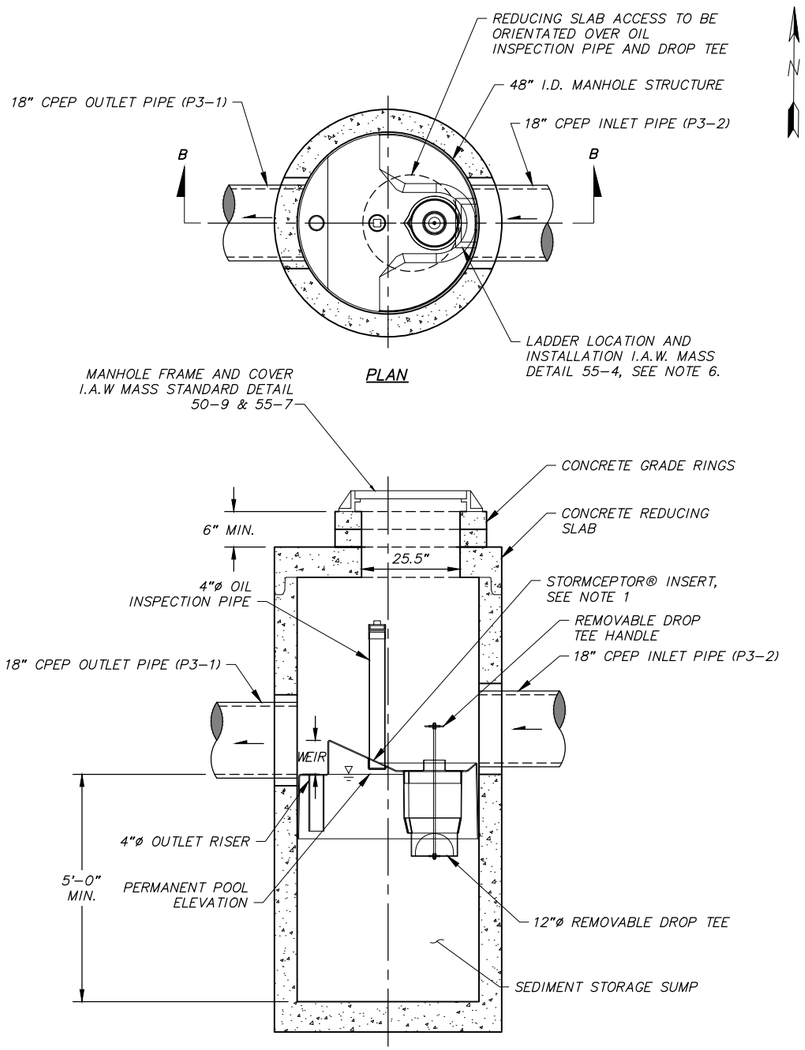
19-08 LOIS DRIVE RECONSTRUCTION SCHED B
BENSON BOULEVARD TO 32ND AVENUE

STORM DRAIN DETAILS

SCALE HOR. NTS VER. NTS | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET SD4 of SD7

File J:\Jobdata\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Details - Storm.dwg





BYPASS MANHOLE NOTES

1. CAST CONCRETE MOUNTING SURFACE INTO MANHOLE SUCH THAT BYPASS GATE HANDWHEEL IS CENTERED IN ACCESS OPENING.
2. BYPASS GATE STEM SHALL BE NON-RISING TO POSITION HANDWHEEL AT CONVENIENT STATIC OPERATING ELEVATION FROM MANHOLE OPENING ABOVE.
3. BYPASS MANHOLE SHALL BE PAID FOR UNDER PAY ITEM 55.05 CONSTRUCT (TYPE II) BYPASS MANHOLE.
4. OGS BYPASS PIPE (P3-3) NOT SHOWN IN SECTION A-A FOR CLARITY.
5. ADJUST LOCATION OF PIPE PENETRATION INTO MANHOLE FOR BYPASS PIPE (P3-3) AS REQUIRED TO AVOID CONFLICT WITH CONCRETE MOUNTING SURFACE.

1 BYPASS MANHOLE (S3-2) DETAIL

SCALE: NTS

OIL & GRIT SEPARATOR NOTES

1. OIL AND GRIT SEPARATOR (OGS3-1) SHALL BE STORMCEPTOR MODEL STC450i MANUFACTURED BY CONTECH ENGINEERED SOLUTIONS LLC OR APPROVED EQUAL.
2. ACCESS OPENING THROUGH REDUCING SLAB SHOULD BE POSITIONED OVER THE DROP TEE AND OIL PORT.
3. SEE STORM DRAIN PLAN & PROFILE SHEETS FOR INLET AND OUTLET PIPE INVERTS & ORIENTATION AND STRUCTURE INFORMATION.
4. LADDER RUNGS NOT SHOWN IN SECTION VIEW FOR CLARITY.

2 OIL AND GRIT (OGS3-1) SEPARATOR

SCALE: NTS

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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP
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19-08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED B

STORM DRAIN DETAILS

SCALE HOR. NTS VER. NTS | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET SD5 of SD7

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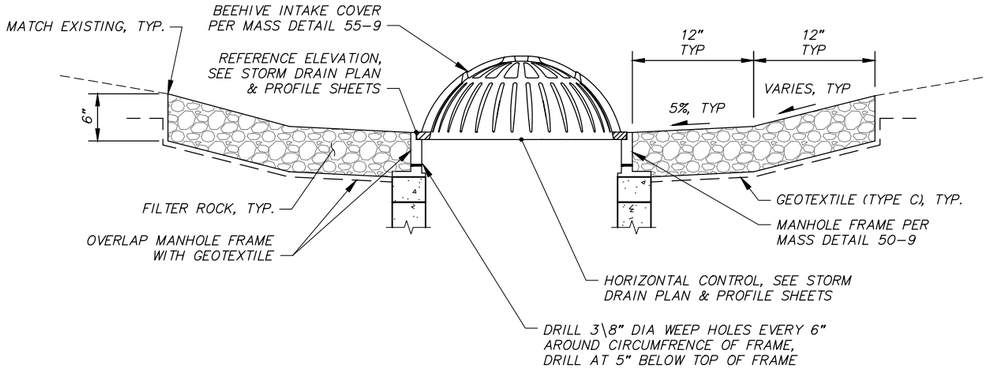
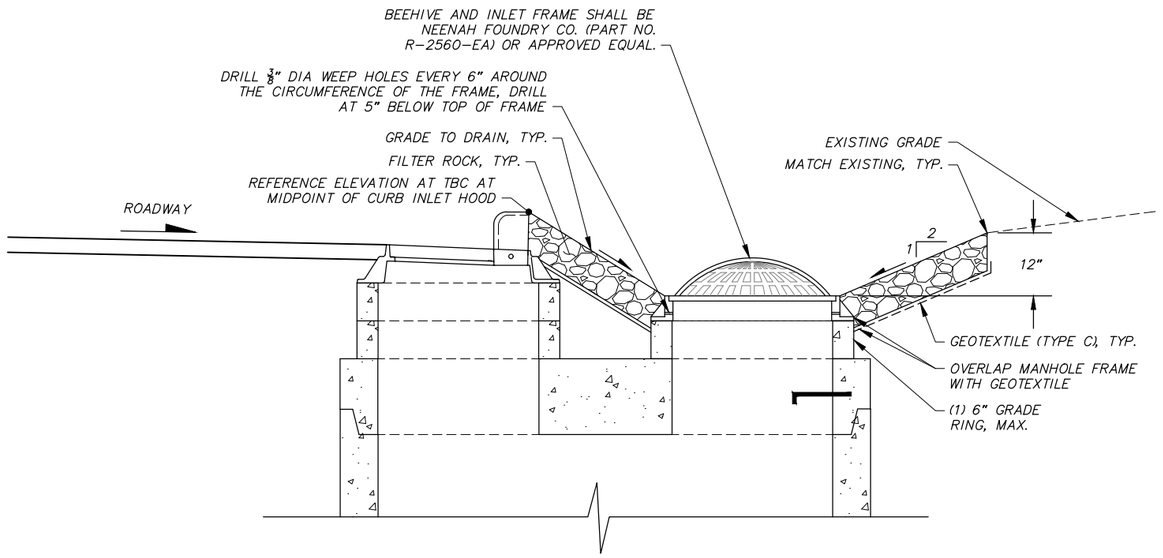


FIELD INLET NOTES

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

1 FIELD INLET DETAIL

SCALE: NTS

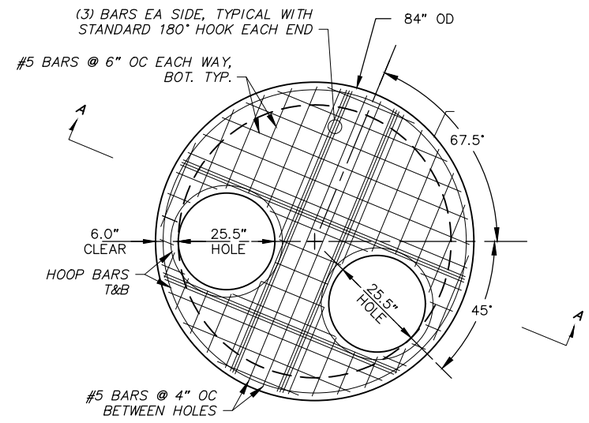


TYPE II CATCHBASIN MANHOLE WITH BEEHIVE INLET NOTES

1. FILTER ROCK AND GEOTEXTILE SHALL BE INCIDENTAL TO PAY ITEM 55.05 (CONSTRUCT (TYPE II) CATCH BASIN MANHOLE).

2 TYPE II CATCH BASIN MANHOLE WITH BEEHIVE INLET

SCALE: NTS



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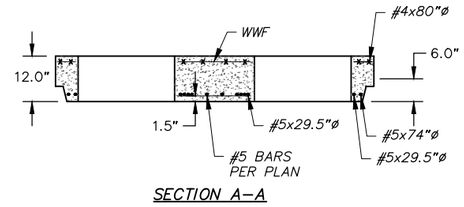


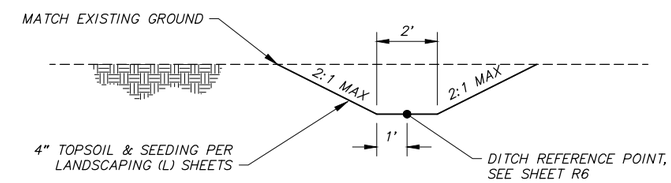
SECTION A-A

REDUCING SLAB NOTES

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

3 MODIFIED PRECAST CONCRETE TWO HOLE REDUCING SLAB DETAIL

SCALE: NTS



4 TYPICAL OPEN DITCH SECTION

SCALE: NTS

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PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

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REVISIONS

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PHONE: (907) 562-3252
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19-08 LOIS DRIVE RECONSTRUCTION SCHED B
BENSON BOULEVARD TO 32ND AVENUE

STORM DRAIN DETAILS

SCALE HOR. NTS VER. NTS | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET SD6 of SD7

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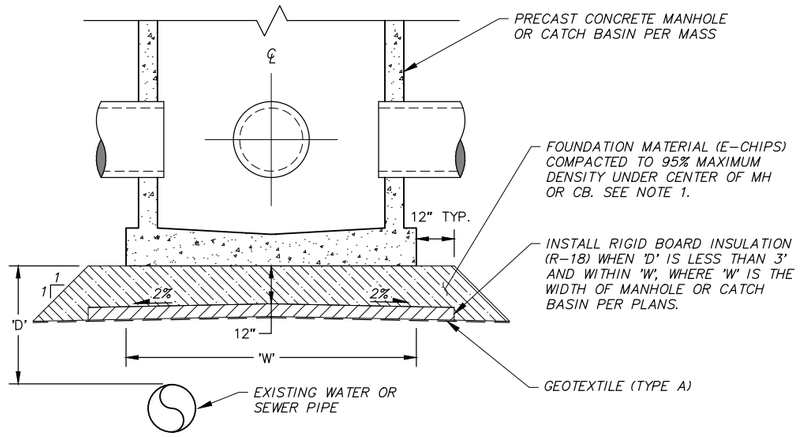

FOUNDATION BACKFILL & STORM DRAIN STRUCTURE INSULATION NOTES

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).

1 FOUNDATION BACKFILL & STORM DRAIN STRUCTURE INSULATION DETAIL

SCALE: NTS

20.26

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

SHEET	BEGIN STATION	END STATION	OFFSET	WIDTH (FT)	LENGTH (FT)	AREA (SF)	COMMENTS
SD2				8	8	64	CATCH BASIN OVER WATER MAIN, SEE DETAIL 1, THIS SHEET
SD3	30+83	–	0.40' LT	4	8	32	WATER MAIN CROSSING

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TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

PLAN CHECK

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ASBUILT			
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CONSTRUCTION RECORD | VERTICAL DATUM

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REVISIONS

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3940 ARCTIC BLVD. SUITE 300
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19-08 LOIS DRIVE RECONSTRUCTION SCHED B
BENSON BOULEVARD TO 32ND AVENUE

STORM DRAIN DETAILS & SUMMARY TABLES

SCALE HOR. NTS VER. NTS | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET SD7 of SD7

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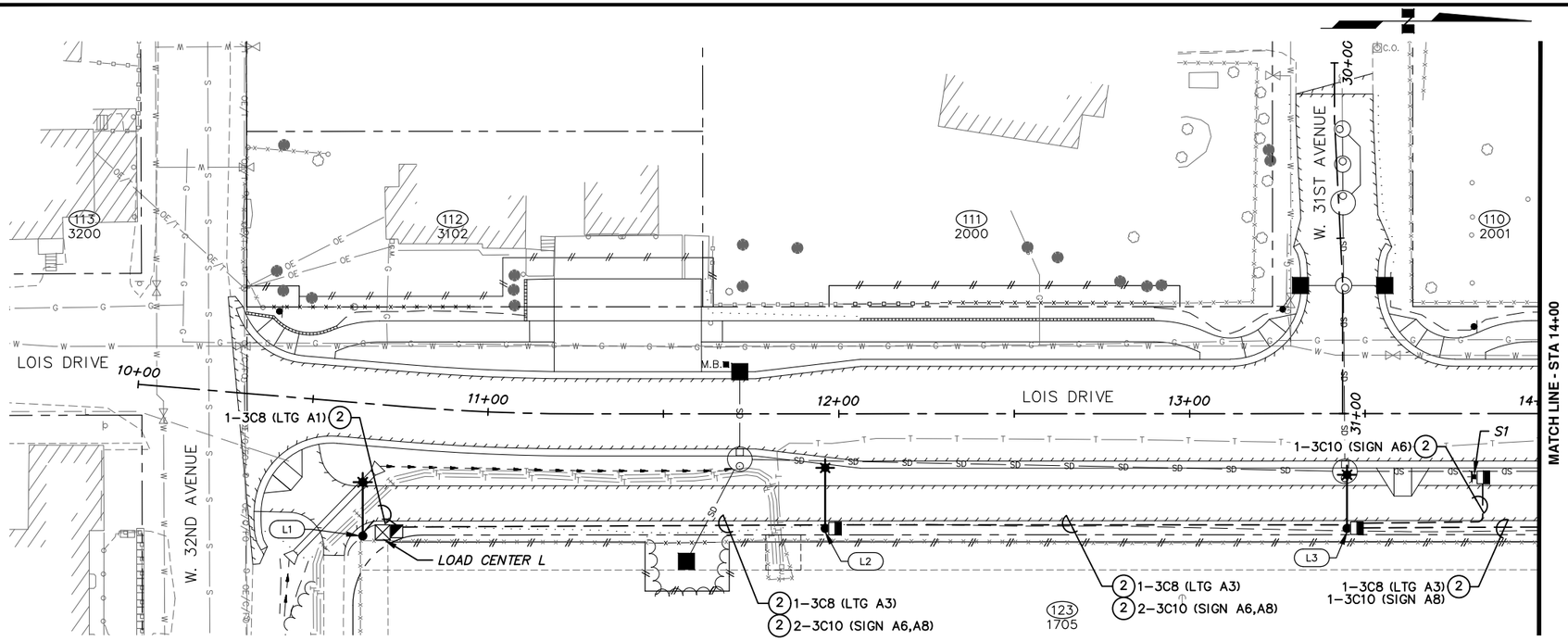
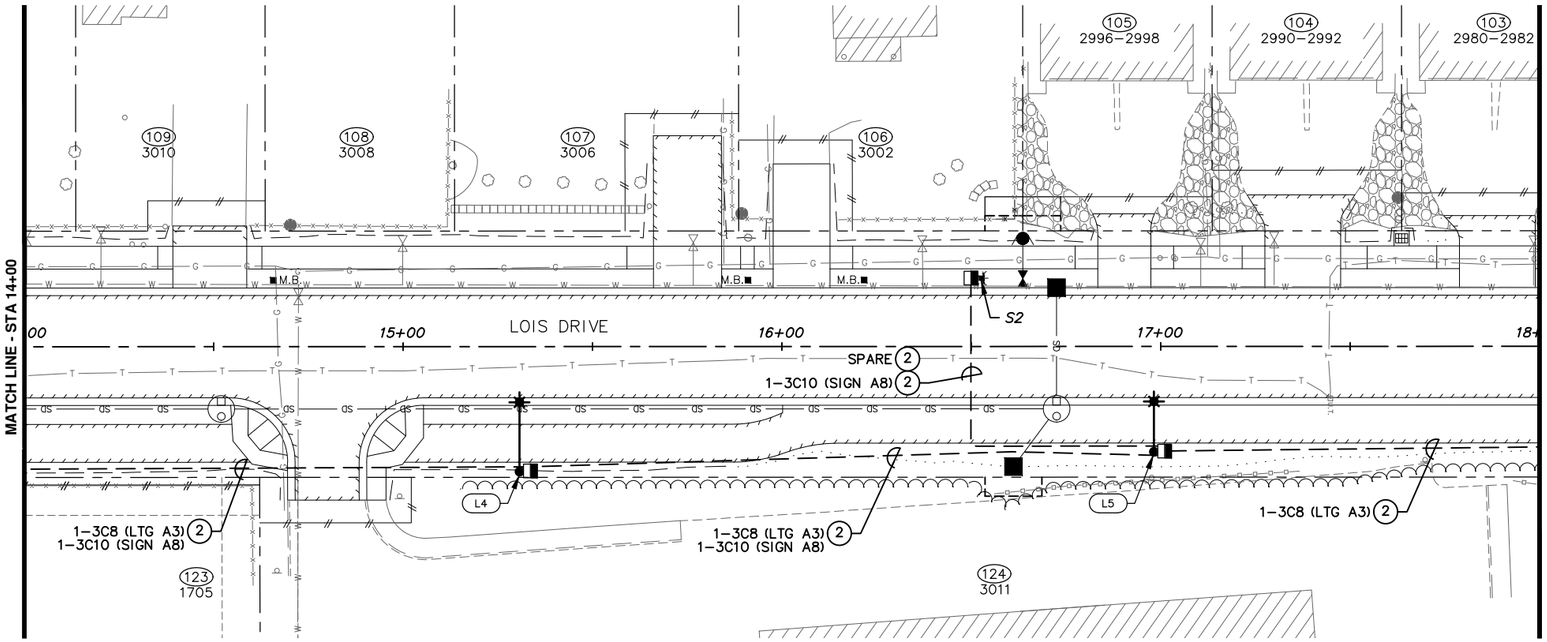


ILLUMINATION NOTES:

1. *SEE NOTES ON SHEET 12.*



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PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
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STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

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REVISIONS

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PHONE: (907) 562-3252
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

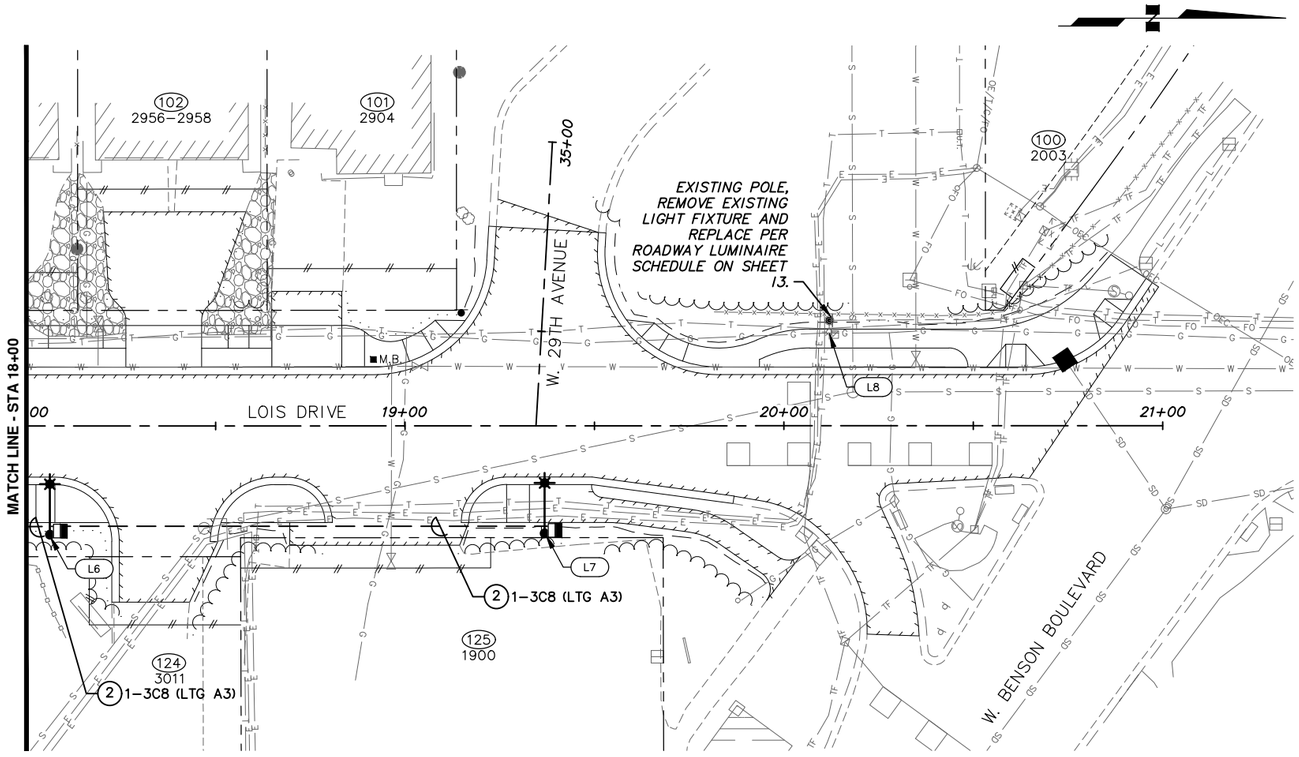
19–08 LOIS DRIVE RECONSTRUCTION SCHED C
BENSON BOULEVARD TO 32ND AVENUE

ILLUMINATION PLAN

BOP TO STA 18+00

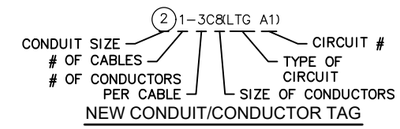
SCALE HOR. 1"=20' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET 11 of 14

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 Cadd 2019\01 Working Set\03 Electrical\10145.00 Illumination Plan.dwg



ILLUMINATION NOTES:

1. PROVIDE HOT DIP GALVANIZED STEEL POLES WITH MAST ARMS PER MOA STANDARD DETAILS 80–19 AND 80–20, RESPECTIVELY.
2. ALL LUMINAIRE POLE FOUNDATIONS SHALL BE DRIVEN PILE WITH A FIXED BASE ASSEMBLY UNLESS OTHERWISE NOTED ON THE DRAWINGS. PILE EMBEDMENT DEPTH SHALL BE 15' MINIMUM. LUMINAIRE POLE FOUNDATION SHALL BE LOCATED A MINIMUM OF 2 FEET FROM BACK OF SIDEWALK/PATHWAY OR A MINIMUM OF 7 FEET FROM BACK OF CURB. WHEN POLE LOCATION IS WITHIN 10' OF A UTILITY, EXCAVATE A HOLE TO 12" BELOW ANTICIPATED UTILITIES DEPTH WITH A VACTOR TRUCK BEFORE DRIVING PILE. THIS WORK SHALL BE INCIDENTAL TO THE SECTION 80.04 PAY ITEM. SEE MASS DETAIL 80–9. CONTRACTOR SHALL STAKE LUMINAIRE POLE LOCATIONS IN THE FIELD FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO INSTALLATION OF PILES.
3. LUMINAIRES APPROVED FOR SUBSTITUTION SHALL PROVIDE THE LIGHT LEVELS AND UNIFORMITIES INDICATED IN THE LIGHT LEVELS TABLE.
4. PROVIDE THE POLE SHAFT LENGTHS AND MAST ARM LENGTHS SHOWN IN THE ROADWAY LUMINAIRE SCHEDULE.
5. PROVIDE RIGID METAL CONDUIT (RMC) WITH A BARE, STRANDED COPPER GROUND FOR ALL RACEWAYS. GROUND TO BE SIZED TO EQUAL THE LARGEST CONDUCTOR SIZE IN THE CONDUIT, MINIMUM #8 AWG. ALL CONDUITS AND FITTINGS SHALL BE HOT–DIPPED GALVANIZED PER MASS 80.07.1.
6. PROVIDE ONE SPARE 2" RMC WITH PULL ROPE BETWEEN THE JUNCTION BOXES ADJACENT TO EVERY ROAD CROSSING.
7. PROVIDE A 3 CONDUCTOR CABLE FOR EACH BRANCH CIRCUIT. SIZE AS SHOWN ON THE DRAWINGS.
8. INSTALL THE JUNCTION BOX WITHIN 3' OF THE POLE OR LOAD CENTER. DO NOT INSTALL JUNCTION BOXES IN SIDEWALKS, PATHWAYS, TRAILS, SLOPES, OR DRAINAGE DITCHES. JUNCTION BOXES INSTALLED BEHIND SIDEWALKS, PATHWAYS OR TRAILS SHALL HAVE A MINIMUM SETBACK OF 2' AND BE PLACED BEHIND OR ON THE DOWN TRAFFIC SIDE OF FOUNDATIONS.
9. IN THE DRAWINGS, EACH JUNCTION BOX HAS THE SAME IDENTIFYING NUMBER AS THE LIGHT POLE, RADAR SPEED SIGN OR LOAD CENTER NEXT TO IT. FOR JUNCTION BOXES LOCATED BETWEEN POLES, THE IDENTIFYING NUMBER INCLUDES THE SMALLER OF THE TWO POLE NUMBERS BETWEEN WHICH THE JUNCTION BOX IS LOCATED AND AN "A" SUFFIX.
10. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE 2020 NEC AND THE AMENDMENTS ADOPTED IN AMC 23.30.



NEW CONDUIT/CONDUCTOR TAG

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PLAN CHECK

GRAPHIC SCALE 40 20 0 20 40

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 & 3840	GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
	CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19–08 LOIS DRIVE RECONSTRUCTION SCHED C
BENSON BOULEVARD TO 32ND AVENUE

ILLUMINATION PLAN & NOTES

SCALE HOR. 1"=20' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET 12 of 14

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 Cadd 2019\01 Working Set\03 Electrical\10145.00 Illumination Plan.dwg

LIGHT LEVELS TABLE – LOIS DRIVE

LOCATION	*MOA REQUIRED MIN. AVERAGE ILLUM. (FC)*	AVERAGE DESIGN ILLUM. (FC)	*MOA REQUIRED MAXIMUM UNIFORMITY RATIO*	DESIGN UNIFORMITY RATIO	*MOA REQUIRED MAX. VEILING LUM. RATIO*	DESIGN VEILING LUM. RATIO	*MOA REQUIRED MIN. VERTICAL ILLUM. (FC)*	DESIGN MIN. VERTICAL ILLUM. (FC)
LOIS DRIVE	*0.6*	0.9	*4.0:1*	2.9:1	*0.4:1*	0.3:1	–	–
LOIS/29TH INTX	*1.0*	1.4	*6.0:1*	3.7:1	–	–	–	–
LOIS/31ST INTX	*1.0*	1.2	*6.0:1*	2.9:1	–	–	–	–
LOIS/32ND INTX	*1.0*	1.2	*6.0:1*	3.8:1	–	–	–	–
PEDESTRIAN FACILITIES	*0.4*	0.5	*4.0:1*	2.5:1	–	–	*0.1*	0.1

NOTES:

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

ROADWAY LUMINAIRE SCHEDULE

POLE	STATION	OFFSET	SHAFT LENGTH	MAST ARM LENGTH	LUMENS	DISTRIBUTION	CIRCUIT
L1	10+67.3	37.75 RT	27'	14'	6,000	TYPE 3, MEDIUM	A1
L2	11+96.0	32.50 RT	26'	16'	6,000	TYPE 2, MEDIUM	A3
L3	13+44.8	32.50 RT	27'	14'	13,000	TYPE 3, MEDIUM	A3
L4	15+30.7	33.00 RT	26'	17'	10,000	TYPE 2, MEDIUM	A3
L5	16+98.2	28.00 RT	27'	12'	6,000	TYPE 2, MEDIUM	A3
L6	18+06.2	28.50 RT	27'	12'	6,000	TYPE 2, MEDIUM	A3
L7	19+36.8	28.50 RT	27'	12'	10,000	TYPE 3, MEDIUM	A3
L8	EXISTING				16,000	TYPE 3, MEDIUM	EXISTING

RADAR SPEED SIGN SCHEDULE

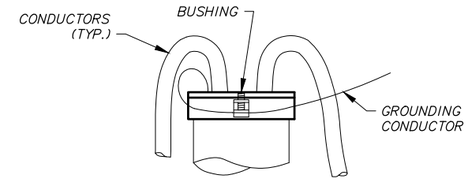
SIGN	STATION	OFFSET	CIRCUIT
S1	13+81.0	18.00 RT	A6
S2	16+52.7	18.00 LT	A8

NOTE: INSTALL RADAR SPEED SIGN PER MASS DETAIL 80-17A WITH CONCRETE FOUNDATION PER MASS DETAIL 80.12A.

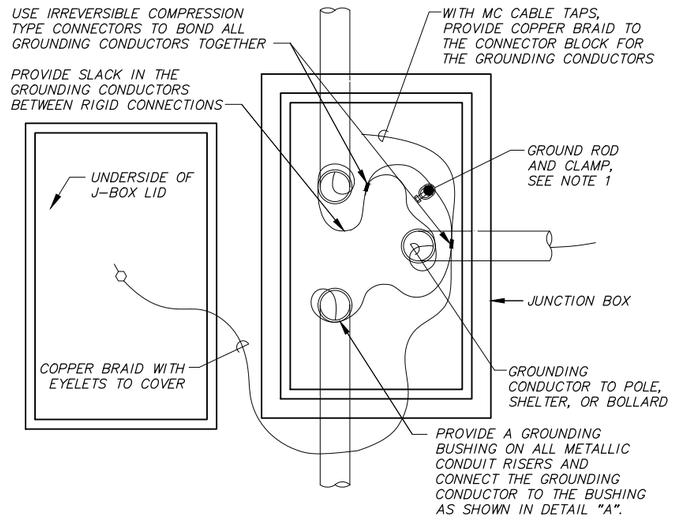
LUMINAIRE SCHEDULE

TYPE	SYMBOL	MAKE	MODEL	LAMP	CCT*	DISTRIBUTION	VOLTAGE	COLOR	OPTIONS	MOUNT
ROADWAY		GE	ERL1	SEE LUMINAIRE SCHEDULE	3000K	SEE LUMINAIRE SCHEDULE	240	GREY	7-PIN RECEPTACLE WITH SHORTING CAP	MAST ARM

*CCT = CORRELATED COLOR TEMPERATURE



DETAIL A



1 JUNCTION BOX GROUNDING DETAIL
NTS

ONLY GROUNDING CONDUCTORS ARE SHOWN FOR CLARITY

JUNCTION BOX GROUNDING NOTES:

1. *PROVIDE A 3/4"X10' CU-CLAD STEEL GROUND ROD IN ALL JUNCTION BOXES NOT ASSOCIATED WITH A LOAD CENTER OR A LIGHT POLE. ATTACH GROUND ROD TO THE JUNCTION BOX GROUNDING SYSTEM. THE GROUND ROD SHALL BE INCIDENTAL TO THE JUNCTION BOX PAY ITEM.*
2. *ALL CONDUIT AND FITTINGS SHALL BE HOT DIPPED GALVANIZED PER MASS.*

RECORD DRAWING

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

PLAN CHECK

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PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

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VERTICAL DATUM

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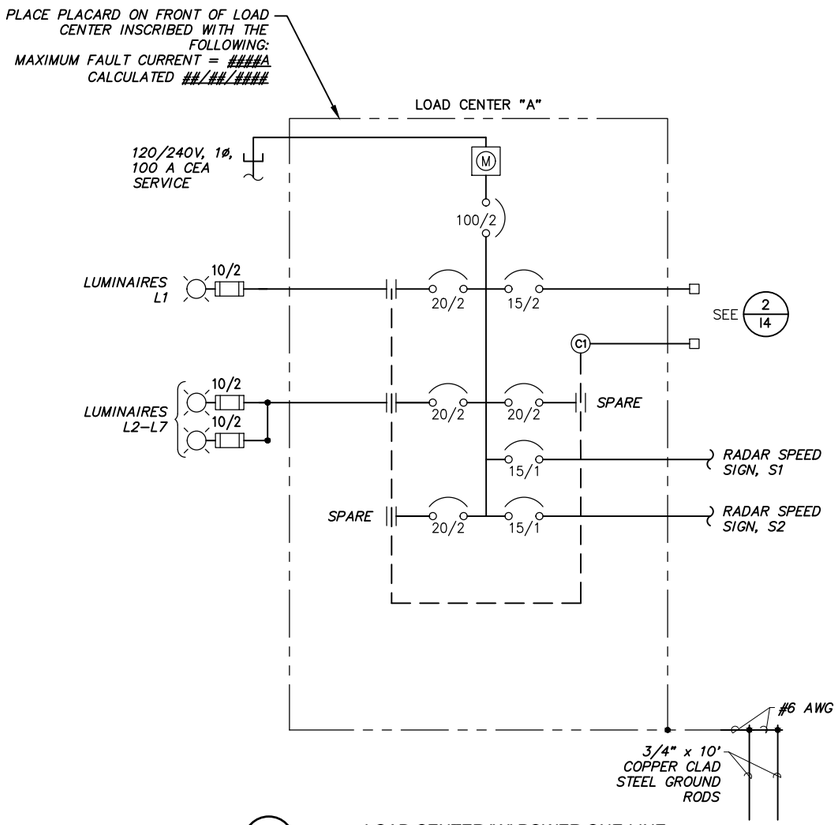
19-08 LOIS DRIVE RECONSTRUCTION SCHED C
BENSON BOULEVARD TO 32ND AVENUE

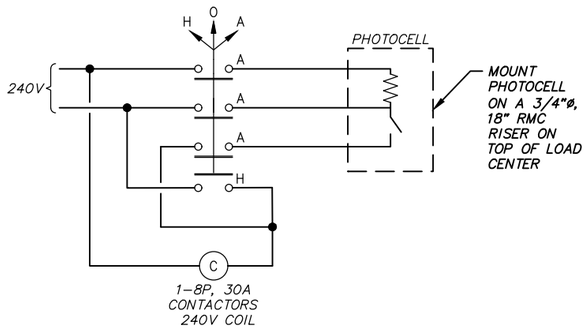
ILLUMINATION SCHEDULES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET 13 of 14

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 Cadd 2019\01 Working Set\03 Electrical\10145.00 Illumination Details.dwg



1 LOAD CENTER "A" POWER ONE-LINE
NTS



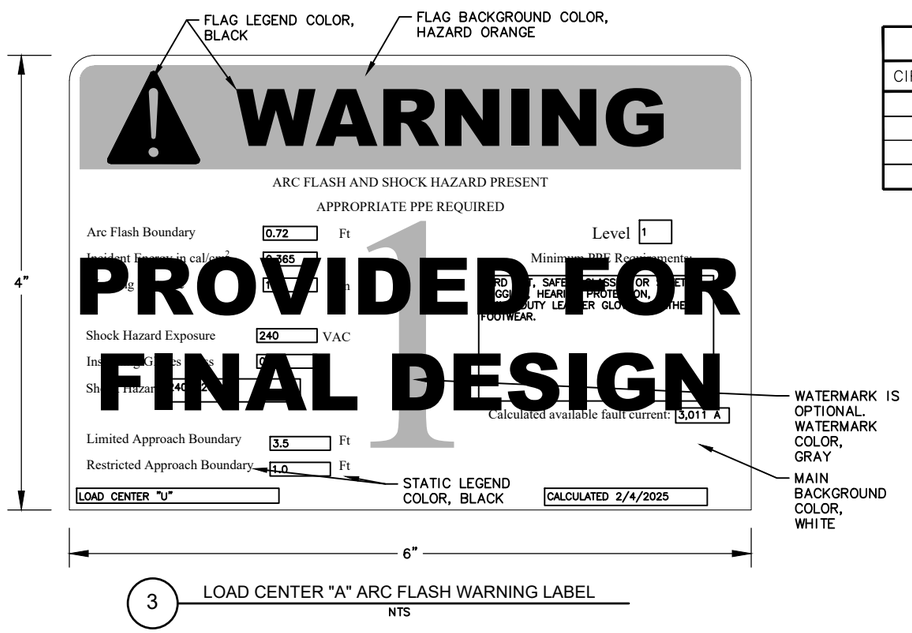
2 LOAD CENTER PHOTOELECTRIC CONTROL SCHEMATIC
NTS

LOAD CENTER NO. A TYPE: 1A
LOCATION: STATION – 10+72.9, OFFSET – 36.00 RT, LOIS DRIVE
1–8 POLE, 30 AMP CONTACTORS
MAIN BREAKER A: 2 POLE, 100 AMPS, 240 VOLTS

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

CKT.	CIRCUIT DESCRIPTION	KVA	AMP		AMP	KVA	CIRCUIT DESCRIPTION	CKT.
A1	LUMINAIRES L1	0.1	20/2	1 2	15/2	0.2	PHOTOELECTRIC CONTROL	A2
A3	LUMINAIRES L2–L7	0.7	20/2	3 4 5 6 7 8	20/2	0.0	SPARE	A4
A5	SPARE	0.0	20/2	9 10 11 12	15/1	0.1	RADAR SPEED SIGN, S1	A6
				13 14 15 16	15/1	0.1	RADAR SPEED SIGN, S2	A8
				17 18 19 20				

TOTAL CONNECTED LOAD = 1.2 KVA
TOTAL AMPS = 5.0 A



3 LOAD CENTER "A" ARC FLASH WARNING LABEL
NTS

VOLTAGE DROP					
CIRCUIT	SIZE	LENGTH	VOLTAGE	CURRENT	V.D.
A1	#8	15'	240V	0.3A	0.01%
A3	#8	895'	240V	2.7A	1.47%
A6	#10	330'	120V	0.8A	0.25%
A8	#10	720'	120V	0.8A	0.56%

LOAD CENTER NOTES:
1. PROVIDE A TYPE 1A LOAD CENTER FOUNDATION PER MASS DETAIL 80–2, SIZED FOR THE LOAD CENTER BEING INSTALLED. LOAD CENTER SHALL NOT OVERHANG THE FOUNDATION CHAMFERS.
2. PLACARDS FOR LOAD CENTERS SHALL HAVE SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED. CONTACT ENGINEER PRIOR TO ORDER OF PLACARD TO VERIFY MAXIMUM FAULT CURRENT.
3. LABEL THE FRONT WITH 3M SCOTCHCAL REFLECTIVE DECALS NOTING OWNERSHIP: MOA, PURPOSE: LU (ILLUMINATION) AND THE VOLTAGE.
4. PROVIDE ARC FLASH WARNING LABELS WITH INCIDENT ENERGY VALUES AND PERSONAL PROTECTIVE EQUIPMENT (PPE) ON EACH PIECE OF EQUIPMENT IN ACCORDANCE WITH NEC ARTICLE 110.16 AND NFPA 70E.

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PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
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19-08 LOIS DRIVE RECONSTRUCTION SCHED C
BENSON BOULEVARD TO 32ND AVENUE
LOAD CENTER DETAILS AND SCHEDULES

SCALE HOR. N/A VER. N/A
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET 14 of 14

File: J:\Jobs\Data\10145.00 Lois Drive And W 32nd Ave Pathway\00 Cadd 2019\01 Working Set\03 Electrical\10145.00 Illumination Details.dwg

SUPPLEMENTAL TRAFFIC LEGEND

SYMBOL	
EXISTING	PROPOSED
	LOAD CENTER
	SIGNAL CONTROLLER CABINET
	TYPE 1A JUNCTION BOX
	TYPE II JUNCTION BOX
	TYPE III JUNCTION BOX
	PEDESTRIAN PUSH BUTTON
	PEDESTRIAN SIGNAL
	VEHICULAR SIGNAL
	VEHICULAR SIGNAL RIGHT
	VEHICULAR SIGNAL LEFT
CAM	PAN, TILT, ZOOM CAMERA
A	OPTICOM DETECTOR WITH CONFIRMATION LIGHT
RAD	RADAR DETECTOR
GPS	GPS OPTICOM DETECTOR
###	LOOP DETECTION ZONE
	LOOP DETECTOR CONDUIT
	SIGNAL CONDUIT
	CONNECTION BETWEEN EXISTING & NEW CONDUIT
IC	INTERCONNECT CONDUIT
	ROADWAY ELECTROLIER
	PEDESTRIAN ELECTROLIER
	TRAFFIC SIGNAL POLE/LUMINARE TRAFFIC
	SIGNAL POLE
	STUBOUT CAPPED OR PLUGGED END CONDUIT
2	SIZE IN INCHES
2	SIGNAL POLE #
	ELECTRIC TRANSFORMER
a b	STREET SIGN
XX	SIGN #
7	JUNCTION BOX #

NOTE:

LEGEND MAY CONTAIN SYMBOLS THAT ARE NOT USED ON THIS PROJECT.

ABBREVIATIONS

AWG	AMERIAN WIRE GAUGE	NB	NORTHBOUND
COM	WAVETRONIX CABLE	OMNI	OMNI DIRECTIONAL ANTENNA
EB	EASTBOUND	PTZ	PAN–TILT–ZOOM CAMERA
EX	EXISTING		
GND	GROUND	PE	PHOTOELECTRIC CELL
HDPE	POLYETHYLENE CONDUIT	PPB	PEDESTRIAN PUSHBUTTON
HEAD	VEHICULAR SIGNAL HEAD	PED	PEDESTRIAN SIGNAL HEAD
SIG	SIGNAL	PRE #	PREEMPTION #
I/C	INTERCONNECT	CL	PREEMPTION CONFIRMATION LIGHT #
INTX	INTERSECTION	C.L.	CENTERLINE
INTX L	INTERSECTION LIGHTING	RAD	RADAR
LC	LOAD CENTER	RMC	RIGID METAL CONDUIT
LFNC	LIQUIDTIGHT FLEXIBLE NONMETALLIC CONDUIT	SB	SOUTHBOUND
LTG	LIGHTING	TC	TRAFFIC CONTROLLER
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES	WB	WESTBOUND

CALL BEFORE YOU DIG!

CONTRACTOR SHALL CALL A MINIMUM OF 3 DAYS IN ADVANCE OF CONSTRUCTION

ALASKA DIGLINE
907-278-3121 OR 800-478-3121

CALL OR GO TO WWW.AKONECALL.COM/STATEWIDE.HTM FOR MEMBER LIST OF WHO WILL BE NOTIFIED

GENERAL NOTES:

1. STATION & C.L. REFERENCE ARE TO THE CENTER OF THE STRUCTURE, EXCEPT ON LOOPS WHICH ARE TO THE CENTER OF THE TRAILING EDGE OF THE LOOP (EDGE NEAREST INTERSECTION).
2. JUNCTION BOX LOCATIONS APPROXIMATE. LOCATE J–BOXES SO THAT THEY ARE LOCATED OUT OF THE PATHWAY, SIDEWALK, CURB RAMPS, AND DRAINAGE COLLECTION AREAS UNLESS CALLED FOR OTHERWISE.
3. TOPSOIL AND SEED ANY DISTURBED AREAS.

SIGNAL SYSTEM NOTES:

4. INSTALL DEVICES SUCH THAT THE DIMENSIONS SHOWN TO THE BOTTOM OF THE DEVICES ON THE POLE ELEVATIONS ARE MINIMUMS. VERTICAL DIMENSIONS TO SIGNAL HEADS ARE TO BOTTOM OF THE BACK PLATE.
5. SALVAGE SIGNAL POLE ASSEMBLIES, SIGNS, SIGNAL FACES, AND LUMINARIES AND DELIVER TO MAINTENANCE AND OPERATIONS WITHIN 48–HOURS OF DECOMMISSIONING. COMPONENTS DAMAGED WHILE IN THE CONTRACTOR'S CUSTODY MUST BE REPLACED AT THE CONTRACTOR'S EXPENSE. REMOVE AND DISPOSE OF FOUNDATIONS.
6. REMOVE ABANDONED OR UNUSED TRAFFIC JUNCTION BOXES UNLESS OTHERWISE NOTED.
7. SIGNAL HEADS ARE TO BE LOCATED PER THE ALASKA TRAFFIC MANUAL FIGURE 4D–100 – TYPICAL SIGNAL HEAD LOCATIONS. ACCEPTABLE VARIANCE IS +/– ONE FOOT.
8. AIM SIGNALS PER THE SPECIAL PROVISIONS. SIGNALS SHALL ALSO BE AIMED SO AS NOT TO BE VISIBLE FROM SIDE STREET TRAFFIC. ACCEPTABLE VARIANCE IS +/– 5 DEGREES.
9. EXISTING CIRCUITS LISTED ON THE PLAN SHEETS WERE OBTAINED FROM AS–BUILT INFORMATION AND MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO WORK INVOLVING THOSE CIRCUITS.
10. CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL, INCLUDING ARROW BOARD DEVICES FOR OVERHEAD INSPECTION AND LOCATE WORK PERFORMED BY MOA SIGNAL ELECTRONICS. CONTRACTOR SHALL BE ON–SITE AT COMPLETION OF LOCATES TO REVIEW LAYOUT AND MAKE STATIONING MEASUREMENTS FOR CONDUIT LOCATIONS.
11. CONTRACTOR SHALL VERIFY LOCATION OF ALL EXISTING UTILITIES AND STRUCTURES AFFECTING THE WORK. NOTIFY THE ENGINEER IN WRITING OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN IN THE CONTRACT DOCUMENTS WHICH ADVERSELY IMPACT THE WORK.
12. EXISTING EQUIPMENT INFORMATION SHOWN ON THESE DRAWINGS SHOULD BE FIELD VERIFIED. CONFIRM NEW EQUIPMENT LOCATIONS WITH OWNER AND ADJUST AS REQUIRED.
13. CONTRACTOR SHALL MAINTAIN A RED–LINE SET OF CONSTRUCTION DOCUMENTS DURING CONSTRUCTION. RED–LINE DRAWINGS SHALL BE SUBMITTED TO THE OWNER UPON PROJECT COMPLETION.
14. THE CONTRACTOR SHALL PROVIDE AND INSTALL AN EQUIPMENT GROUNDING CONDUCTOR IN ALL CONDUITS OF CABLING.
15. ALL CONDUCTOR SIZES SHOWN ARE BASED ON COPPER UNLESS NOTED OTHERWISE.

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

PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
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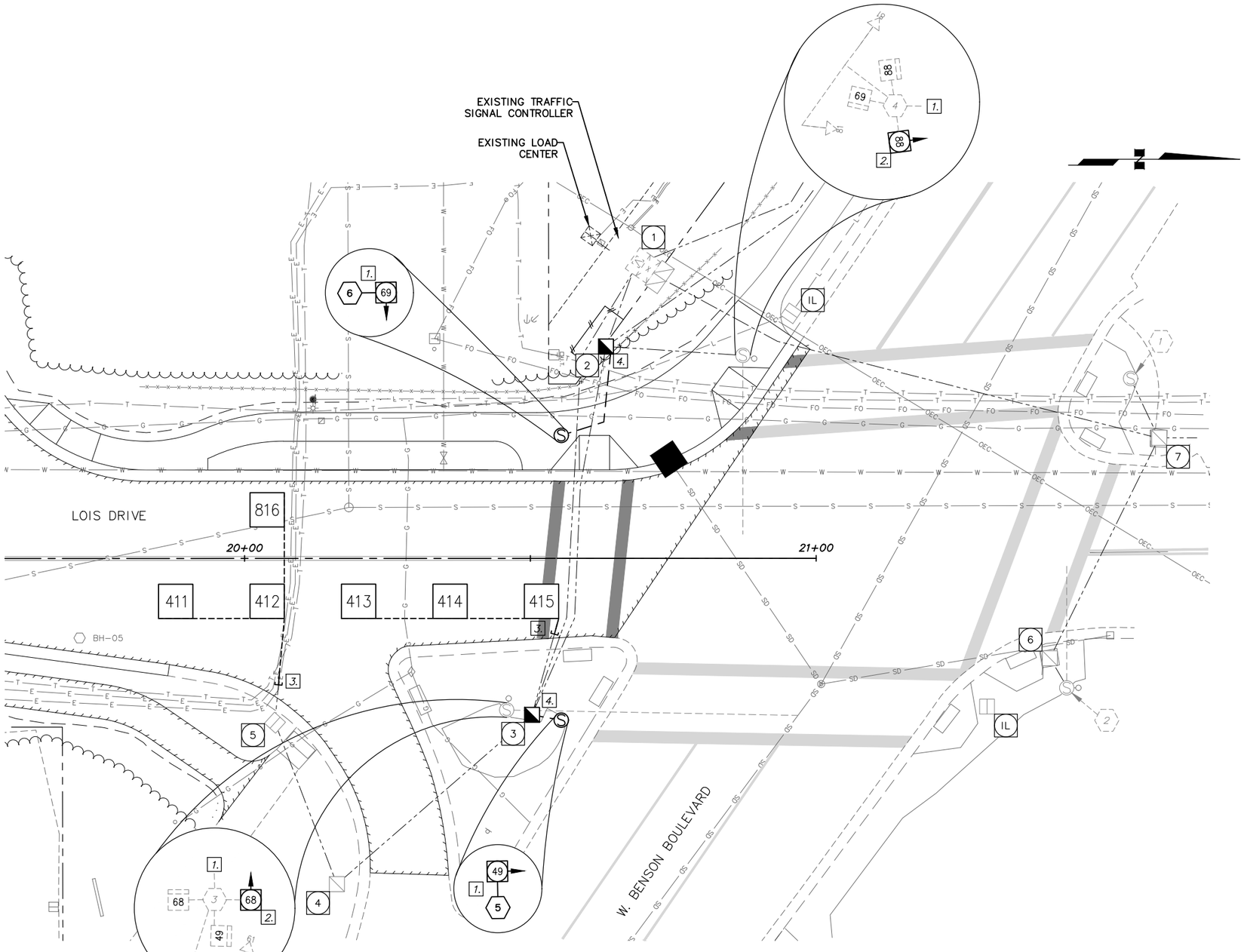
19–08 LOIS DRIVE RECONSTRUCTION BENSON BOULEVARD TO 32ND AVENUE SCHED C

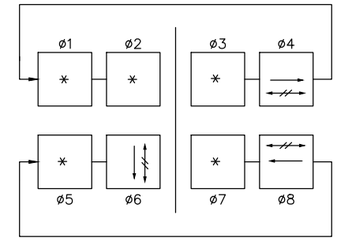
TRAFFIC LEGEND AND NOTES

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET J1 of J5

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Signalization Plans.dwg



1 / J2 SIGNALIZATION PLAN
1" = 10'



2 / J2 PHASING SEQUENCE DIAGRAM
NTS

PHASING SEQUENCE LEGEND:
- PEDESTRIAN MOVEMENT
- PROTECTED VEHICLE MOVEMENT
- PERMISSIVE VEHICLE MOVEMENT
- * NOT USED

NOTES:

1. SALVAGE PEDESTRIAN PUSHBUTTONS ON EXISTING SIGNAL POLE AND REMOVE CONDUCTORS FROM SIGNAL POLE TO THE NEARBY JUNCTION BOX. PROVIDE AND INSTALL NEW PUSHBUTTON ON NEW POLE.
2. SALVAGE PEDESTRIAN PUSHBUTTONS ON EXISTING SIGNAL POLE AND REUSE CONDUCTORS FROM SIGNAL POLE TO THE NEARBY JUNCTION BOX. PROVIDE AND INSTALL NEW PUSHBUTTONS ON EXISTING SIGNAL POLE.
3. INTERCEPT AND INSTALL CONDUIT COUPLING TO EXISTING LOOP CONDUIT OUTSIDE CURBLINE. REMOVE EXISTING CONDUCTORS AND INSTALL NEW LOOPS PER M.A.S.S. DETAIL 80-53.
4. REMOVE EXISTING TYPE II JUNCTION BOX AND INSTALL NEW TYPE II AFTER INSTALLING NEW CONDUIT AND ELBOWS.

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PLAN CHECK

GRAPHIC 20 10 0 10 20 SCALE

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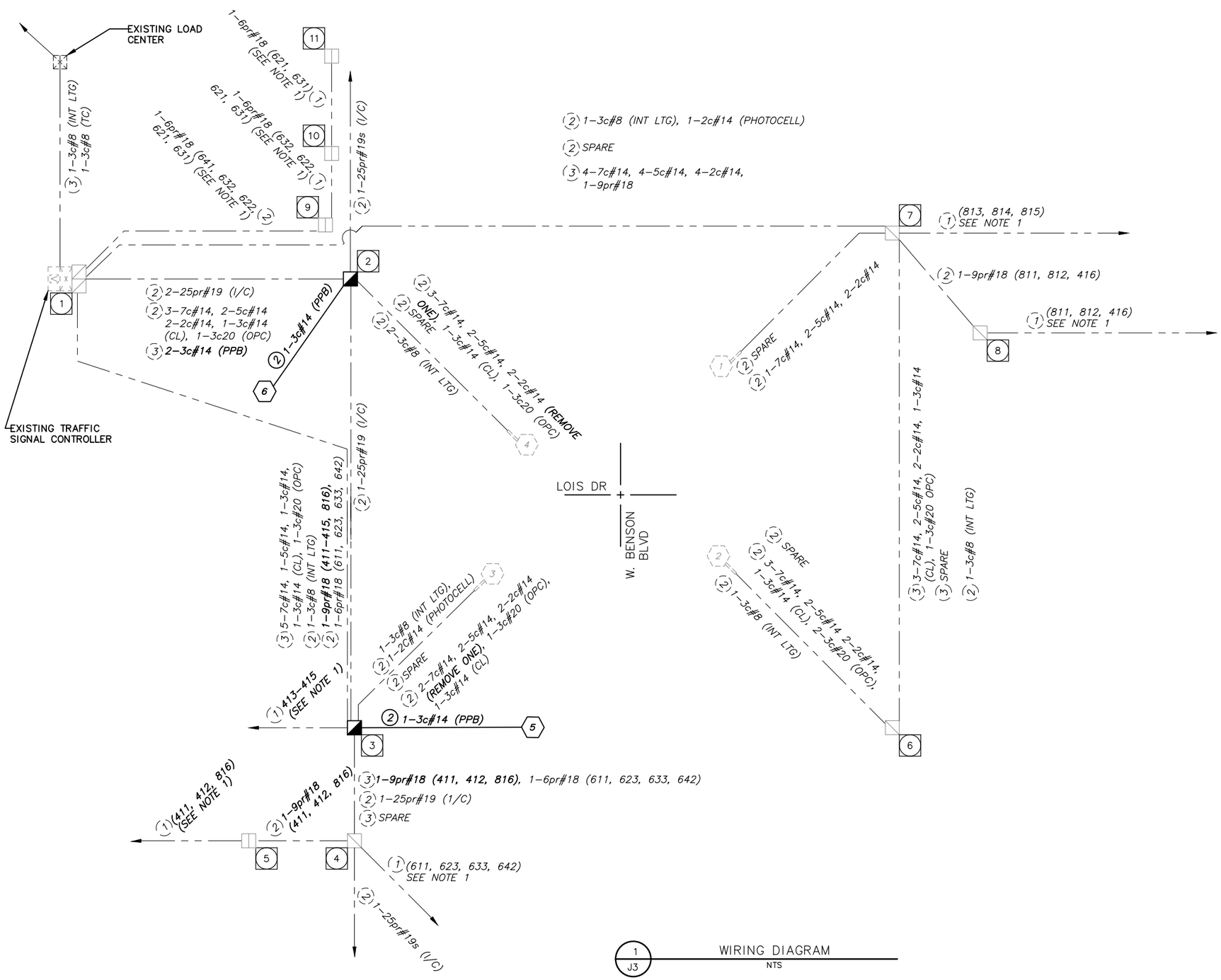
SIGNALIZATION PLAN

SCALE HOR. 1"=10' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET J2 of J5

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Signalization Plans.dwg



1 / J3 WIRING DIAGRAM
NTS

CABLE LABELS

1-3c8(LTG LC-X)

- NUMBER OF CABLES REQUIRED
- NUMBER OF CONDUCTORS (c) OR PAIRS (pr) IN EACH CABLE
- CONDUCTOR SIZE IN AWG
- LOAD CENTER ID & CIRCUIT NUMBER

CIRCUIT TYPE:

- LTG = LIGHTING ON SIGNAL POLES
- I/C = INTERCONNECT
- TC = TRAFFIC CONTROLLER POWER
- FB = FLASHING BEACON
- GND = BARE COPPER GROUND WIRE
- PE = PHOTOELECTRIC CONTROL
- A-L = LOOP DETECTOR CABLE GROUP
- OPC = OPTICOM DETECTOR
- CL = CONFIRMATION LIGHT
- * = PRESERVE EXISTING CABLE
- XW = CROSSWALK
- RAD = RADAR
- PED = PEDESTRIAN SIGNAL HEAD
- PPB = PEDESTRIAN PUSHBUTTON
- MTX2 HMRN = RADAR HOMERUN

***PROPOSED WORK IN **BOLD ITALIC**
***EXISTING WORK IN ITALIC, NOT BOLD

WIRING NOTES:

1. EXISTING LOOPS ARE SPLICED TO COMMON 6 OR 9 PAIR CONDUCTORS. LOOPS SPLICED AT EACH JUCTION BOX ARE INDICATED BY THE NUMBER IN PARENTHESES
.
2. PULL PEDESTRIAN PUSHBUTTON CABLES IN SPARE CONDUITS AS SHOWN. WHERE CONDUIT IS SHARED WITH OTHER CONDUCTORS, REMOVE AND REPULL ALL CONDUCTORS TO THE NEAREST JUNCTION BOX.
3. EACH PEDESTRIAN PUSHBUTTON IS SERVED WITH 3c#14 CABLE.
4. EACH PEDESTRIAN SIGNAL FACE IS SERVED WITH 5c#14 CABLE.
5. ALL CONDUITS HAVE ONE BARE #8 GROUND WIRE, UNLESS OTHERWISE NOTED.
6. ALL CONDUIT SCHEDULE 40 RMC UNLESS OTHERWISE NOTED.
7. WHERE A JUNCTION BOX IS PLACED ADJACENT TO A SIGNAL POLE, AND THE CONDUIT RUN IS NOT LABELED , IT IS IMPLIED THAT ANY CONDUITS AND CONDUCTORS ENTERING THE JUNCTION BOX CONTINUE TO THE SIGNAL POLE.
8. INSTALL ALL PUSH BUTTONS ON EXISTING POLES USING EXISTING CONDUCTORS.

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	
DESIGN CRW BOOK No. 3839 &	
3840	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

SEAL

STATE OF ALASKA 49 TH
Connor T. Dunham
CE-107492
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

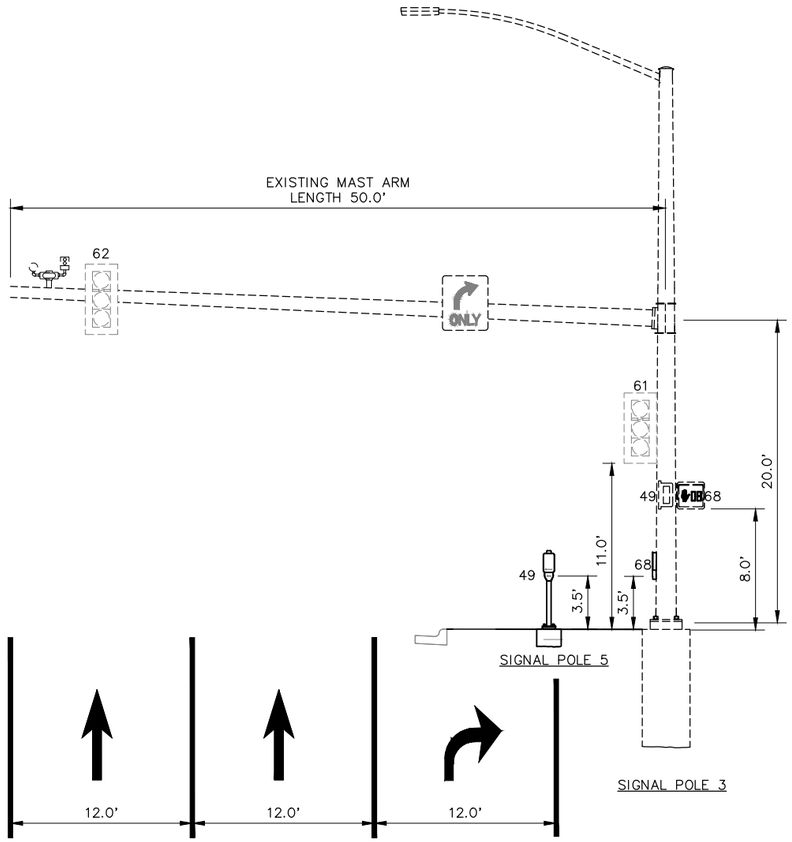
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED C
BENSON BOULEVARD TO 32ND AVENUE

WIRING DIAGRAM

SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET J3 of J5

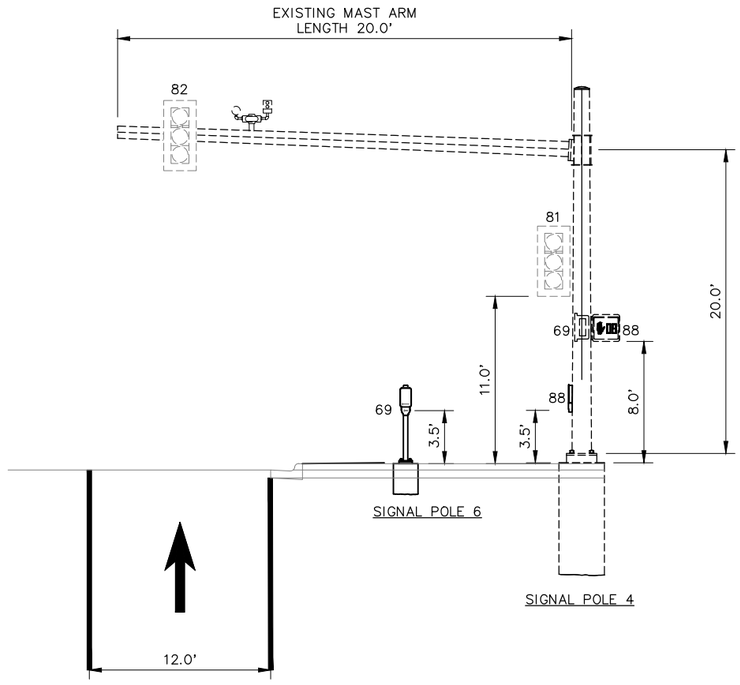
File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Wiring Diagram.dwg



SIGNAL POLE 5 PROFILE

1 / J4

NTS



SIGNAL POLE 6 PROFILE

2 / J4

NTS

SIGNAL POLE & J–BOX SCHEDULE						
NUMBER		LOCATION				
POLE	J.B.	TYPE	OTHER	STATION	OFFSET (FT)	REMARKS
5				20+55.4	28.3 RT	NEW PEDESTRIAN PUSHBUTTON POLE
6				20+55.4	21.5 LT	NEW PEDESTRIAN PUSHBUTTON POLE
	2	II		20+63.3	37.1 LT	REMOVE AND INSTALL NEW TYPE II
	3	II		20+50.3	27.4 RT	REMOVE AND INSTALL NEW TYPE II
	4	II		20+16.1	57.0 RT	EXISTING JUNCTION BOX TO REMAIN
	5	IA		20+05.3	28.7 RT	EXISTING JUNCTION BOX TO REMAIN

DETECTION SCHEDULE						
DETECTOR ID	STATION	OFFSET (FT)	PHASE CALL	TYPE	MOVEMENT DIRECTION	REMARKS
411	19+91.0	7.5 RT	4	STOP BAR	NB	
412	20+07.0	7.5 RT	4	STOP BAR	NB	
413	20+23.0	7.5 RT	4	STOP BAR	NB	
414	20+39.0	7.5 RT	4	STOP BAR	NB	
415	20+55.0	7.5 LT	4	STOP BAR	NB	
816	20+07.0	8.5 LT	8	THROUGH	SB	THROUGH VOLUME

RECORD DRAWING

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   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS
DESIGN CRW BOOK No. 3839 & 3840
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB 76	See MOA Benchmark Book, Page D–16	94.04'
CB–TL3A	See MOA Benchmark Book, Page D–16	96.09'

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

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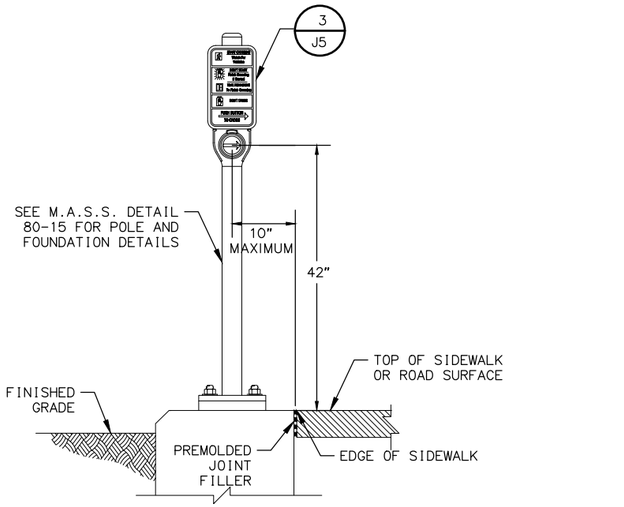
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19–08 LOIS DRIVE RECONSTRUCTION SCHED C
BENSON BOULEVARD TO 32ND AVENUE

SIGNAL PROFILES AND SCHEDULES

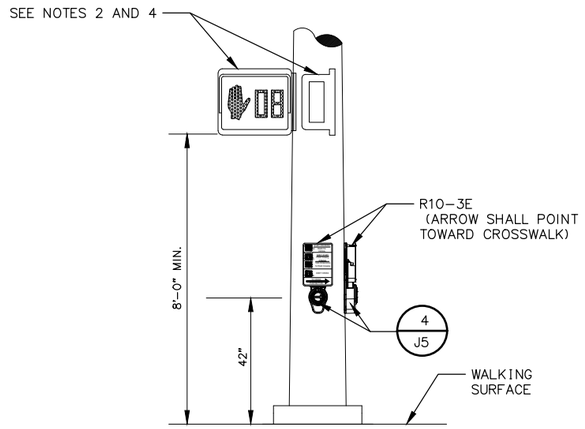
SCALE HOR. N/A VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET J4 of J5

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Signal Details.dwg



1 J5 ACCESSIBLE PEDESTRIAN SIGNAL PUSHBUTTON PEDESTAL PLACEMENT DETAIL

NTS

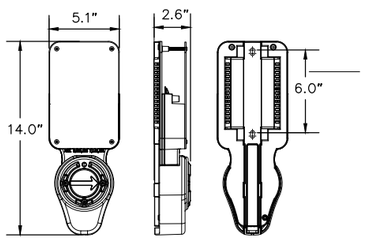


2 J5 R10-3e MOUNTING HEIGHT

NTS

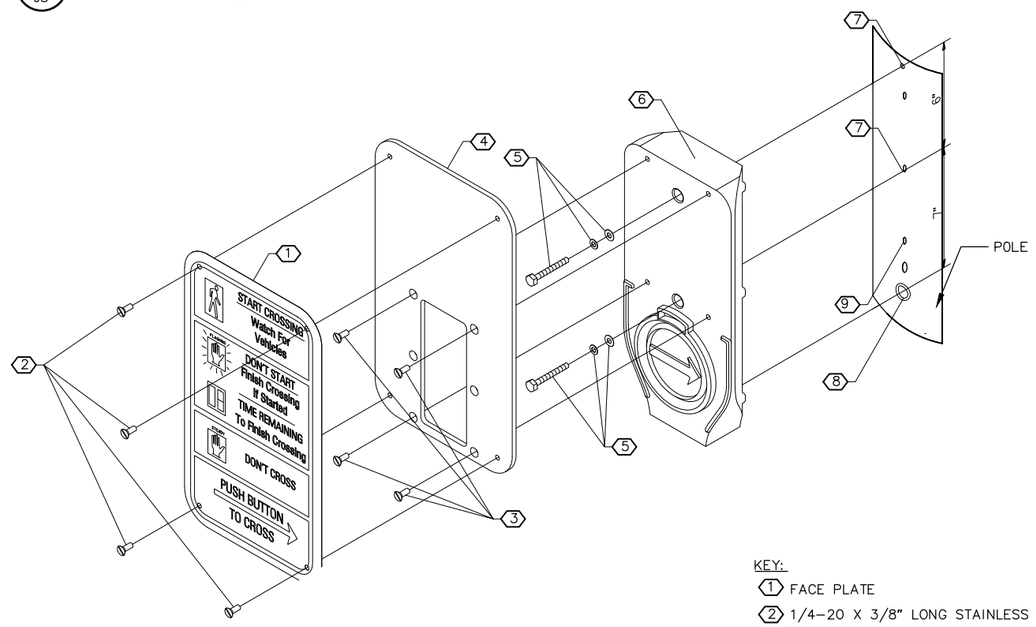
NOTES

1. INSTALL THE R10-3e MEANING OF PEDESTRIAN INDICATIONS SHOWN IN THE PLANS AS DETAILED ON THIS SHEET AND PER THE ALASKA TRAFFIC MANUAL.
2. USE CLAMSHELL BRACKETS TO INSTALL ALL PEDESTRIAN SIGNALS, EXCEPT THOSE THAT ARE POST TOP MOUNTED.
3. POSITION MOUNTING HOLES SO THAT CAP SCREW AND FLAT WASHER DON'T OBSCURE SIGN LEGEND.
4. INSTALL PEDESTRIAN INDICATION TO FACE THE CENTER OF THE FAR SIDE CROSSWALK. ACCEPTABLE VARIANCE IS +/- 1 DEGREE.



3 J5 ACCESSIBLE PEDESTRIAN PUSHBUTTON ASSEMBLY

POLARA iNS (3 WIRE) OR APPROVED EQUAL - NTS



4 J5 ACCESSIBLE PEDESTRIAN SIGNAL BUTTON MOUNTING DETAIL

NTS

KEY:

1. FACE PLATE
2. 1/4-20 X 3/8" LONG STAINLESS STEEL SCREW
3. 1/4-20 STAINLESS STEEL SCREWS
4. PUSHBUTTON FRAME ADAPTER
5. 1/4-20 STAINLESS STEEL BOLT W/ WASHER AND LOCK WASHER
6. PUSHBUTTON STATION
7. DRILL AND TAP SHAFT FOR 1/4" DIAM. BOLT
8. DRILL AND TAP SHAFT FOR 5/8" WIRE GUIDE HOLE- ADD INSULINER
9. WIRE ACCESS HOLE

RECORD DRAWING

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PLAN CHECK

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TOPOGRAPHY	BB	BW
PROFILE	RB	JK
STORM SEWER	JM	JH
WATER/SANITARY SEWER	JM	RB
GAS	BB	BW
TELEPHONE	BB	BW
ELECTRIC	TK	JK
DESIGN	RB	JK
QUANTITIES	RB	JK
PRELIMINARY/FINAL	RB	JK
MUNICIPAL/STATE	RB	JK

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 3839 &	GAAB 76	See MOA Benchmark Book, Page D-16	94.04'
3840	CB-TL3A	See MOA Benchmark Book, Page D-16	96.09'
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PHONE: (907) 562-3252
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MUNICIPALITY OF ANCHORAGE

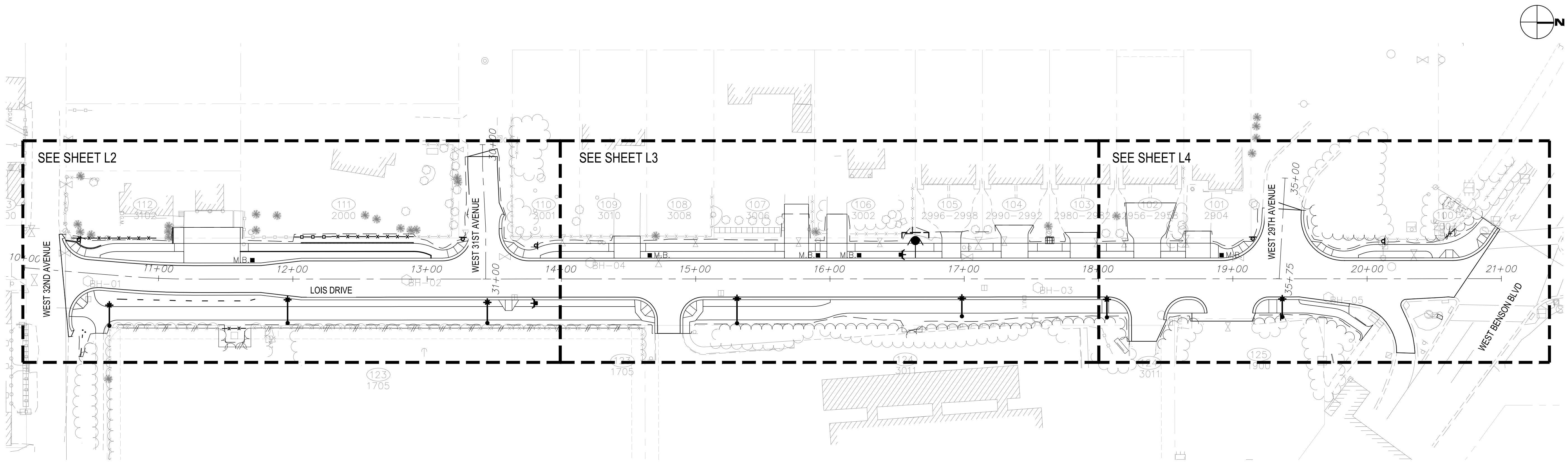
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED C
BENSON BOULEVARD TO 32ND AVENUE

SIGNAL DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1626 | DATE MAR 2025 | STATUS 65% | SHEET J5 of J5

File: J:\JobsData\10145.00 Lois Drive And W 32nd Ave Pathway\00 CADD 2019\01 Working Set\01 Civil\10145.00 Signal Details.dwg



PLANT SCHEDULE

SHRUBS

QTY.	SYMBOL	ABBR.	LATIN NAME	COMMON NAME	SIZE	FURNISHING	NOTES
4		VE	VIBURNUM EDULE	HIGHBUSH CRANBERRY	#5 CONT.	POTTED	

LEGEND

SYMBOL	DESCRIPTION	NOTES
	4" TOPSOIL AND SCHEDULE A SEED MIX	LAWN
	4" TOPSOIL AND SCHEDULE D SEED MIX	NO MOW
	EXISTING DECIDUOUS TREE	
	EXISTING EVERGREEN TREE	
	EXISTING SHRUB	

GENERAL LANDSCAPE NOTES:

1. IMMEDIATELY NOTIFY ENGINEER OF ANY DISCREPANCIES IN THE PLANS OR ON THE SITE. MODIFICATIONS IN THE FIELD SHALL NOT BE MADE UNTIL APPROVAL HAS BEEN GRANTED BY THE ENGINEER.
2. SEE CIVIL FOR EXISTING AND PROPOSED UTILITIES.
3. CONTRACTOR TO COORDINATE WITH UTILITY PROVIDERS AND VERIFY LOCATION OF UTILITIES PRIOR TO CONSTRUCTION.
4. ALL PLANTS SHALL BE NURSERY GROWN UNLESS OTHERWISE SPECIFIED.
5. ALL PLANTING BEDS SHALL RECEIVE 18" DEPTH TOPSOIL AND 3" DEPTH SHREDDED BARK MULCH, UNLESS OTHERWISE NOTED ON PLANS.
6. ALL DISTURBED AREAS NOT WITHIN PLANTING BEDS SHALL RECEIVE 4" MINIMUM TOPSOIL AND SEED PER SCHEDULE AS NOTED ON PLANS.
7. DO NOT APPLY HYDROSEEDING PRODUCT OR SEED MIX IN THE MULCHED AREA AROUND STEM OR TRUNK OF NEW PLANTINGS.
8. REFER TO MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (M.A.S.S) FOR LANDSCAPE IMPROVEMENT DETAILS.
9. EXISTING VEGETATION TO BE SAVED AND PROTECTED SHALL RECEIVE PROTECTION FENCING PER M.A.S.S. SECTION 75.14 TREE PROTECTION ZONE FENCE AND DETAIL 75-10. SEE CIVIL DEMOLITION PLANS FOR LAYOUT.

LANDSCAPE ABBREVIATIONS:

ABBR.	ABBREVIATION	ABBR.	ABBREVIATION
B&B	BALL & BURLAP	HT.	HEIGHT
CAL.	CALIPER	MAX.	MAXIMUM
℄	CENTERLINE	MIN.	MINIMUM
CONT.	CONTAINER	N.I.C.	NOT IN CONTRACT
DIA.	DIAMETER	O.C.	ON CENTER
Ø	DIAMETER	QTY.	QUANTITY
		TYP.	TYPICAL

File: P:\20-157 CRW Lois Dr\2-CAD\Drawings\LA\20-157 BN-PLAN.dwg

RECORD DRAWING

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

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

GRAPHIC SCALE 40 0 40 80 120

FIELD BOOKS	
DESIGN	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	
CONSTRUCTION RECORD	

BM NO.	LOCATION	ELEV.
BASIS OF THIS DATUM		
VERTICAL DATUM		

REV	DATE	DESCRIPTION	BY
REVISIONS			

BETTISWORTH NORTH
2550 DENALI STREET SUITE 1300
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CONSULTANT

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No.11157
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT
SEAL

MUNICIPALITY OF ANCHORAGE

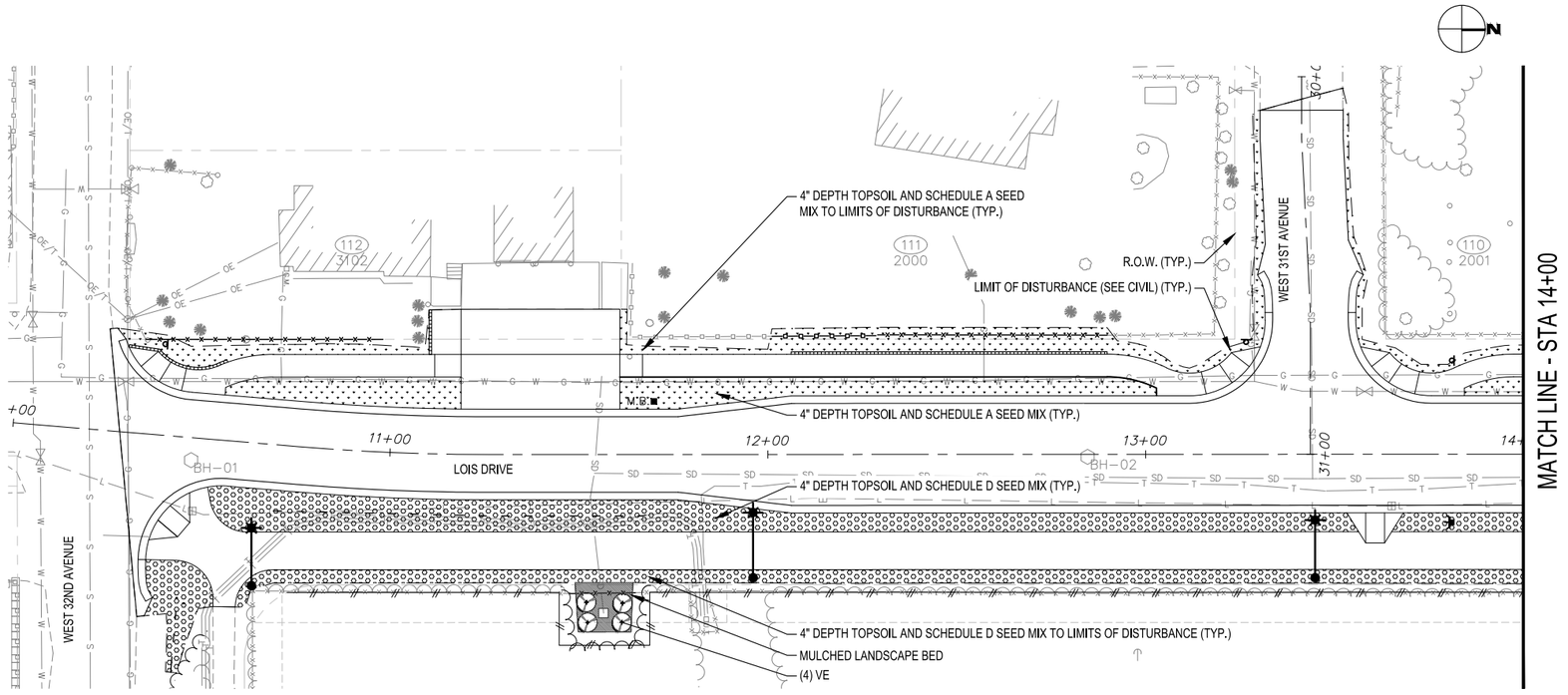
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSEN BOULEVARD TO 32ND AVENUE

LANDSCAPE KEY MAP

LOIS DRIVE

SCALE HOR. 1"=40' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET L1 of L4



PLANT LEGEND

SHRUBS

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	VE	VIBURNUM EDULE	HIGHBUSH CRANBERRY

LEGEND

SYMBOL	DESCRIPTION	NOTES
	4" TOPSOIL AND SCHEDULE A SEED MIX	LAWN
	4" TOPSOIL AND SCHEDULE D SEED MIX	NO MOW
	EXISTING DECIDUOUS TREE	
	EXISTING EVERGREEN TREE	
	EXISTING SHRUB	

RECORD DRAWING

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TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN	MJ	EJ
QUANTITIES	MJ	EJ
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 20 0 20 40 60

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

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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2300 DENALI STREET SUITE 1000
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(907) 564-4280
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CONSULTANT

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SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

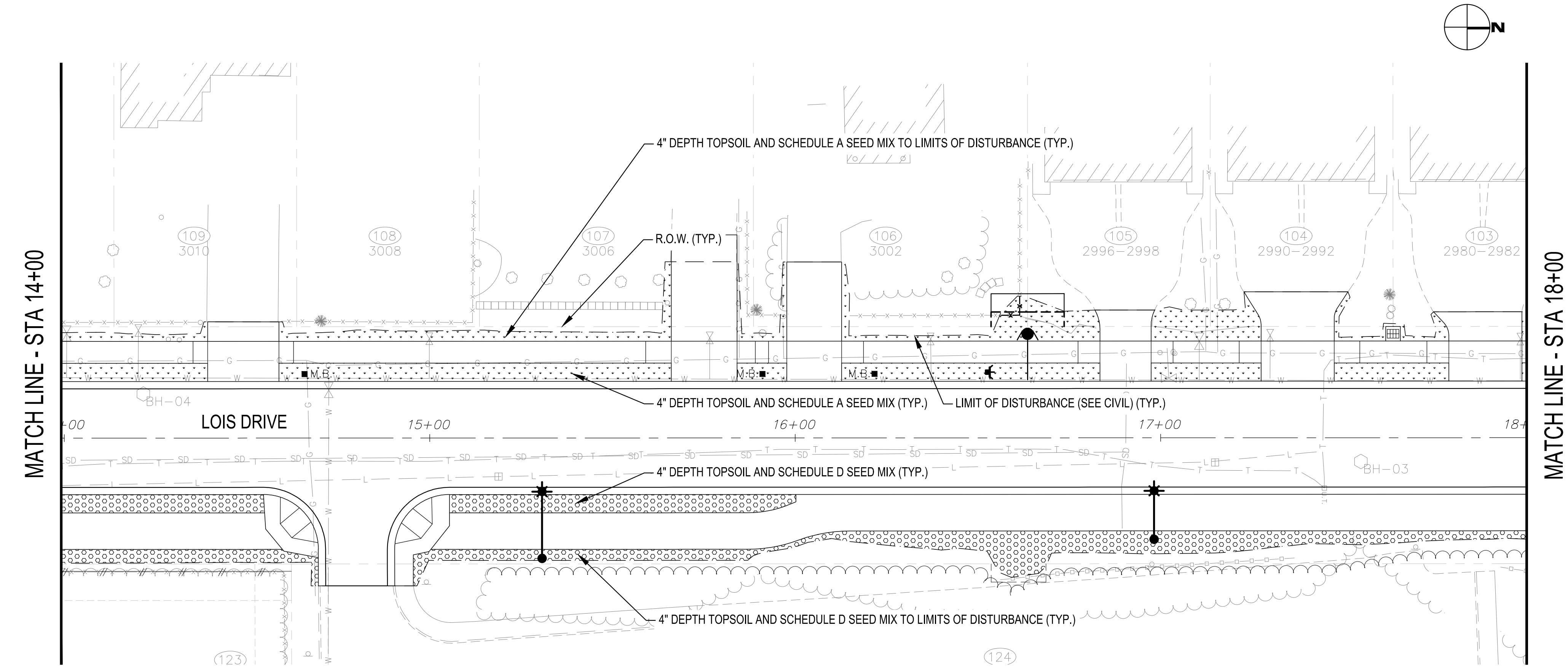
19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSEN BOULEVARD TO 32ND AVENUE

LANDSCAPE PLAN

LOIS DRIVE
BOP TO STA 14+00

SCALE HOR. 1"=20'
VER. N/A
GRID SW1628
DATE MAR 2025
STATUS 65%
SHEET L2 of L4

File: P:\20-157 CRW Lois Dr\2-CAD\Drawings\LA\20-157 BN-PLAN.dwg



PLANT LEGEND

SHRUBS

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
(symbol)	VE	VIBURNUM EDULE	HIGHBUSH CRANBERRY

LEGEND

SYMBOL	DESCRIPTION	NOTES
(pattern)	4" TOPSOIL AND SCHEDULE A SEED MIX	LAWN
(pattern)	4" TOPSOIL AND SCHEDULE D SEED MIX	NO MOW
(symbol)	EXISTING DECIDUOUS TREE	
(symbol)	EXISTING EVERGREEN TREE	
(symbol)	EXISTING SHRUB	

File: P:\20-157 CRW Lois Dr\2-CAD\Drawings\LA\20-157 BN-PLAN.dwg

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PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN	MJ	EJ
QUANTITIES	MJ	EJ
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 20 0 20 40 60

FIELD BOOKS	
DESIGN	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
BASIS OF THIS DATUM		

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

BETTISWORTH NORTH
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SEAL

MUNICIPALITY OF ANCHORAGE

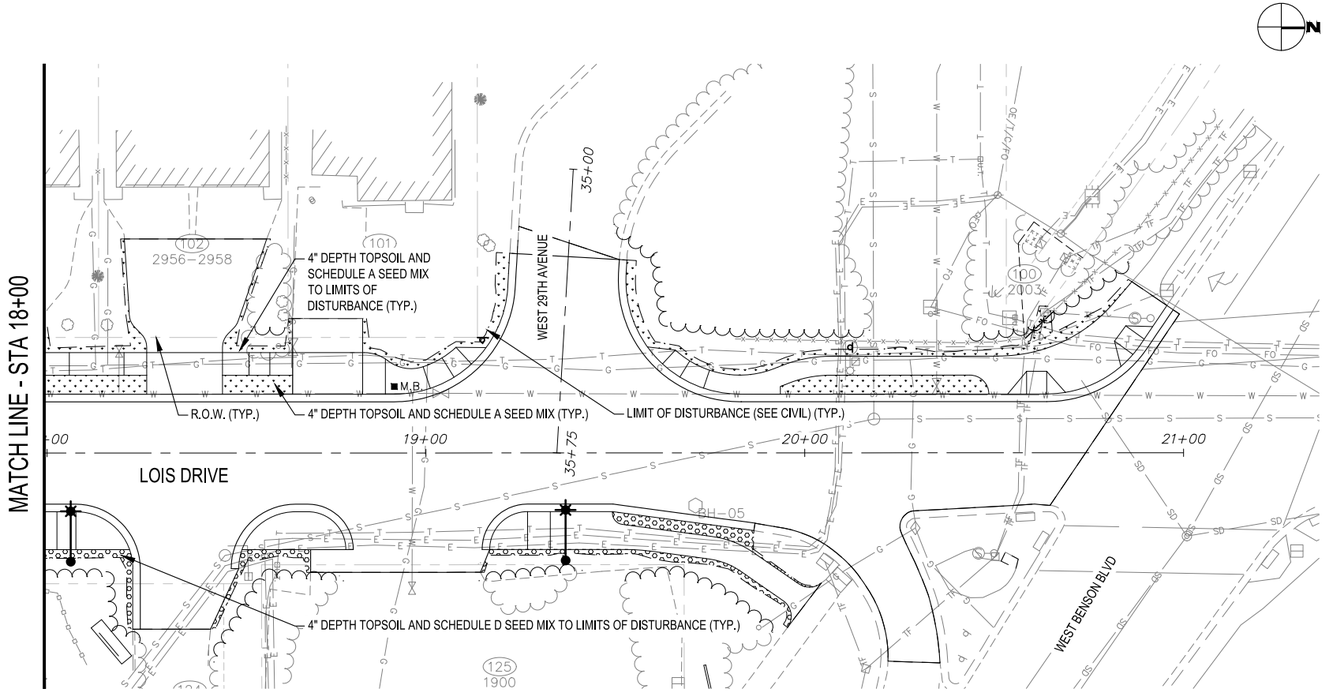
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION BENSEN BOULEVARD TO 32ND AVENUE SCHED A

LANDSCAPE PLAN

LOIS DRIVE
STA 14+00 TO STA 18+00

SCALE HOR. 1"=20' VER. N/A | GRID SW1628 | DATE MAR 2025 | STATUS 65% | SHEET L3 of L4



PLANT LEGEND

SHRUBS

SYMBOL	ABBR.	LATIN NAME	COMMON NAME
	VE	VIBURNUM EDULE	HIGHBUSH CRANBERRY

LEGEND

SYMBOL	DESCRIPTION	NOTES
	4" TOPSOIL AND SCHEDULE A SEED MIX	LAWN
	4" TOPSOIL AND SCHEDULE D SEED MIX	NO MOW
	EXISTING DECIDUOUS TREE	
	EXISTING EVERGREEN TREE	
	EXISTING SHRUB	

RECORD DRAWING

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

PLAN CHECK

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

GRAPHIC SCALE 20 0 20 40 60

CONSTRUCTION RECORD

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

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

BETTISWORTH NORTH
2300 DENALI STREET SUITE 1000
ANCHORAGE, ALASKA 99503
(907) 561-4200
CORPORATE NO. AEOC219

SEAL

STATE OF ALASKA 49TH
MARK M KIMERER
No.11157
REGISTERED PROFESSIONAL LANDSCAPE ARCHITECT

UNIVERSITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

19-08 LOIS DRIVE RECONSTRUCTION SCHED A
BENSEN BOULEVARD TO 32ND AVENUE

LANDSCAPE PLAN

LOIS DRIVE
STA 18+00 TO EOP

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

GRID SW1628

DATE MAR 2025 STATUS 65%

SHEET L4 of L4

File: P:\20-157 CRW Lois Dr\2-CAD\Drawings\LA\20-157 BN-PLAN.dwg