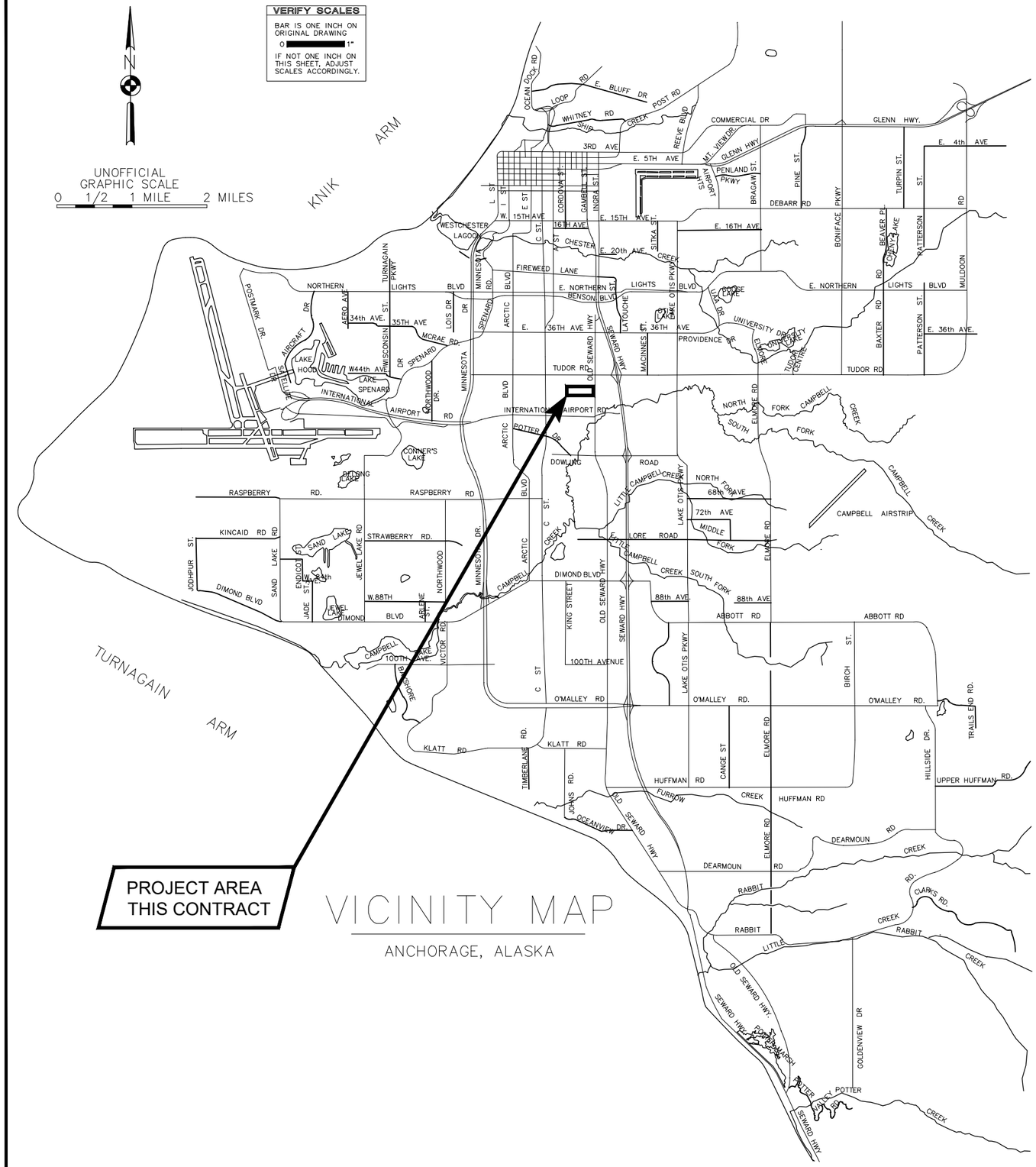

ANCHORAGE ALASKA

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

48TH AVENUE UPGRADES
CORDOVA STREET TO OLD SEWARD HIGHWAY

PROJECT NUMBER: 06-26
FEBRUARY 2022

65% DESIGN

PREPARED BY:

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

APPROVED BY:

KENT KOHLHASE, P.E.
MUNICIPAL ENGINEER

SHEET INDEX		
SHEET NO.	DESCRIPTION	WORK SCHEDULE
GENERAL		
G1	COVER SHEET	ALL
G2	INDEX	ALL
G3	GENERAL NOTES	ALL
G4	LEGEND & ABBREVIATIONS	ALL
G5	KEY MAP	ALL
SURVEY		
V1	SURVEY CONTROL	ALL
V2	SURVEY CONTROL	ALL
V3	SURVEY CONTROL	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
C5	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	ROADWAY PLAN & PROFILE	SCHED A
R6	INTERSECTION LAYOUT PLAN	SCHED A
R7	INTERSECTION LAYOUT PLAN	SCHED A
R8	INTERSECTION LAYOUT PLAN	SCHED A
R9	INTERSECTION LAYOUT PLAN	SCHED A
R10	INTERSECTION LAYOUT PLAN	SCHED A
R11	INTERSECTION LAYOUT TABLE	SCHED A
R12	DRIVEWAY RECONSTRUCTION PLAN	SCHED A
ROADWAY SUMMARY TABLES		
T1	ROADWAY SUMMARY TABLES	SCHED A
T2	ROADWAY SUMMARY TABLES	SCHED A
T3	ROADWAY SUMMARY TABLES	SCHED A

SHEET INDEX		
SHEET NO.	DESCRIPTION	WORK SCHEDULE
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
D7	ROADWAY DETAILS	SCHED A
RETAINING WALLS		
RW1	RETAINING WALL PLAN AND PROFILE	SCHED A
RW2	RETAINING WALL DETAILS	SCHED A
RW3	RETAINING WALL DETAILS	SCHED A
SIGNING & STRIPING		
S1	SIGNING & STRIPING PLAN	SCHED A
S2	SIGNING & STRIPING PLAN	SCHED A
S3	SIGN SCHEDULE SUMMARY	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 PLAN & PROFILE	SCHED B
SD5	STORM DRAIN PLAN & PROFILE	SCHED B
SD6	STORM DRAIN DETAILS	SCHED B
SD7	STORM DRAIN DETAILS	SCHED B
ILLUMINATION		
I1	ILLUMINATION PLAN	SCHED C
I2	ILLUMINATION PLAN	SCHED C
I3	ILLUMINATION SCHEDULES AND DETAILS	SCHED C
I4		
LANDSCAPING		
L1	LANDSCAPE SCHEDULE AND KEY PLAN	SCHED D
L2	LANDSCAPE PLAN	SCHED D
L3	LANDSCAPE PLAN	SCHED D
L4	LANDSCAPE PLAN	SCHED D
L5	LANDSCAPE PLAN	SCHED D
L6	LANDSCAPE DETAILS	SCHED D

WORK SCHEDULES	
A	ROADWAY IMPROVEMENTS
B	DRAINAGE IMPROVEMENTS
C	ILLUMINATION IMPROVEMENTS
D	LANDSCAPING 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: _____

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

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
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ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

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Robert W. Burdick
CE-123959
REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

INDEX

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET G2 of G5

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Index.dwg

GENERAL NOTES

1. ALL WORK SHALL BE IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE (MOA) STANDARD SPECIFICATIONS, DATED 2015, (HEREINAFTER REFERRED TO AS MASS), THE LATEST EDITION OF THE ANCHORAGE WATER AND WASTEWATER UTILITY (AWWU) DESIGN AND CONSTRUCTION PRACTICES MANUAL (DCPM) AND THE SPECIAL PROVISIONS.

2. THE LOCATION OF THE EXISTING FEATURES AND UTILITIES SHOWN IN THESE DRAWINGS ARE APPROXIMATE. THE CONTRACTOR SHALL VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL FEATURES AND UTILITIES ENCOUNTERED AND RECORD THEIR LOCATION ON THE CONTRACT RECORD DRAWINGS. DISCREPANCIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ENGINEER.

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.

4. ALL WORK IN CLOSE PROXIMITY TO EXISTING OVERHEAD TELEPHONE, CABLE, FIBER OPTIC 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.

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. ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL CONDITION, UNLESS OTHERWISE NOTED. REVEGETATION SHALL BE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.

8. CONTRACTOR SHALL RESTORE DISTURBED PROPERTY 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 SHALL BE TOPSOILED AND SEEDED WITH SCHEDULE A SEEDING MIX 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 D7.

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 3, SHEET D5. 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. EXCAVATION SHALL BE MEASURED BY EXCAVATED CROSS-SECTION AND SHALL BE LIMITED TO THE PAY LIMITS IDENTIFIED IN THE TYPICAL CROSS SECTIONS, UNLESS ADDITIONAL EXCAVATION IS DIRECTED BY THE ENGINEER.

17. THE PROJECT CENTERLINE STATIONING IS NOT RIGHT-OF-WAY CENTERLINE PER SURVEY CONTROL DRAWING UNLESS OTHERWISE NOTED. SEE SURVEY CONTROL DRAWING FOR HORIZONTAL AND VERTICAL CONTROL AND LAYOUT OF THE PROJECT CENTERLINE.

18. THE EASEMENTS AND TEMPORARY CONSTRUCTION PERMITS ACQUIRED FOR THIS PROJECT MAY HAVE RESTRICTIONS. SEE CONTRACT DOCUMENTS FOR RESTRICTIONS.

19. ALL CURB LOCATIONS, RADIUS MEASUREMENTS AND ELEVATIONS ARE TO THE TOP BACK OF CURB (TBC) UNLESS OTHERWISE NOTED.

20. FURNISH AND INSTALL 4" PIPE INSULATION BOARD (R-20) BETWEEN THE STORM DRAIN IMPROVEMENTS AND THE WATER AND SEWER UTILITIES WHEN THE VERTICAL CLEARANCE IS LESS THAN THREE FEET. IF 18 INCHES OF VERTICAL SEPARATION BETWEEN WATER AND SEWER/STORM DRAINS CANNOT BE MAINTAINED THEN WATER RELOCATION SHALL BE REQUIRED. SEWER/STORM DRAIN PIPE JOINTS SHALL BE PLACED AT LEAST NINE (9) FEET FROM A WATER CROSSING.

21. EXISTING WATER AND SEWER SERVICE LINES ARE NOT SHOWN IN THE PROFILES UNLESS SPECIFICALLY CALLED OUT.

22. ALL CURB AND GUTTER INCLUDING SPILL CURB 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)".

23. EXISTING UTILITIES AND PROPOSED UTILITIES ARE NOT SHOWN IN THE TYPICAL CROSS SECTIONS OR PROFILES UNLESS OTHERWISE NOTED.

24. 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.

25. 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.

26. CAUTION!!! THERE ARE EXISTING BUILDING FOUNDATIONS AT UNKNOWN LOCATIONS AND DEPTHS NEAR OR WITHIN THE PROJECT LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND DEPTH OF EXISTING BUILDING FOUNDATIONS PRIOR TO CONSTRUCTION. THIS WORK SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE. CONTRACTOR SHALL REPAIR BUILDING FOUNDATIONS THAT ARE DAMAGED BY CONTRACTOR'S OPERATIONS AT NO COST TO OWNER.

27. 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.

28. THERE IS KNOWN CONTAMINATED SOIL, GROUNDWATER, AND SITES WITHIN THE PROJECT AREA. CONTRACTOR SHALL MONITOR EXCAVATION AND DEWATERING EFFORTS FOR POTENTIAL CONTAMINATION DURING CONSTRUCTION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

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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   COMPANY: _____ DATE: _____
   BY: _____

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY ALL

GENERAL NOTES

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET G3 of G5

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 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)
□U.C.		CABLE TV PEDESTAL
		CONTROLLER OR ATR CABINET
		CULVERT
		DRY WELL
E		ELECTRIC LINE (UNDERGROUND)
OE		ELECTRIC LINE (OVERHEAD)
OEC		ELECTRIC & CABLE TV LINE (OVERHEAD)
OE/T		ELECTRIC & TELEPHONE LINE (OVERHEAD)
OE/T/C/FO		ELECTRIC, TELEPHONE, CABLE, FIBER OPTIC (OH)
		ELECTRIC JB TYPE IA
		ELECTRIC JB TYPE II
		ELECTRIC JB TYPE III
		ELECTRIC LOAD CENTER
Ⓔ		ELECTRIC MANHOLE/JB
O-O E.M.		ELECTRIC METER
□U.E.		ELECTRIC PEDESTAL UNDERGROUND
		ELECTRIC SIGN
SC		ELECTRIC SWITCH CABINET
		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
F		FUEL LINE
G		GAS LINE
□G.M.		GAS METER
		GAS VALVE
		GUY POLE
		GUY ANCHOR
		JOINT USE UTILITY POLE
L		LIGHTING LINE
		LUMINAIRE
		LUMINAIRE (PEDESTRIAN)
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 MH OR MH (TYPE 2)
		STORM DRAIN CATCH BASIN MANHOLE TYPE 1
		STORM DRAIN MANHOLE (TYPE VARIES)
		STUBOUT CAPPED OR PLUGGED END

UTILITY

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

ROADWAY

EXISTING	PROPOSED	
		APPROX SLOPE LIMITS (CUT)
		APPROX SLOPE LIMITS (FILL)
		CONCRETE JERSEY BARRIER
		CURB & GUTTER
		EDGE OF PAVEMENT
		EDGE OF CONCRETE
		GUARDRAIL, BARRIER RAIL
		INTERLOCKING CONCRETE PAVERS
		RETAINING WALL (TYPE VARIES)
		STREET SIGN
		UNPAVED (GRAVEL) EDGE OF ROAD/DWY

MISCELLANEOUS

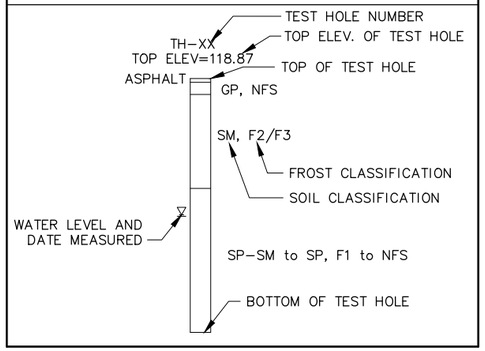
EXISTING	PROPOSED	
		BLUFF AREA/ EARTHWORK SLOPE
		BOLLARD/POST (MATERIAL VARIES)
		BOULDER
		DECK
		DRAINAGE ARROW (DIRECTION OF FLOW)
		DRAINAGE DITCH BOTTOM
		DRAINAGE SWALE
		FENCE (TYPE VARIES)
		FENCE (DECORATIVE)
		FLEXIBLE DELINEATOR
		HOUSE OR STRUCTURE
□M.B.	■M.B.	MAILBOX (INDIVIDUAL)
		MAILBOX (CLUSTER)
●N.B.		NEWS BOX
Ⓟ		PARKING METER
	(1)	PARCEL NUMBERS
		SPRINKLER HEAD
W		SPRINKLER CONTROL BOX
		STREAM/EDGE OF WATERWAY
		TREE/SHRUB (CONIFEROUS)
		TREE/SHRUB (DECIDUOUS)
		TEST BORING OR TEST HOLE
		VEGETATION & BRUSH

PROFILE LEGEND

SYMBOL

EXISTING	PROPOSED	
		APPROXIMATE ROADWAY
		EXCAVATION LIMITS
		EXISTING 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
		INSULATION

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.	DESCRIPTION	ABBR.	DESCRIPTION
AC	ASPHALT CONCRETE	NTS	NOT TO SCALE
AC	ASBESTOS CEMENT	NWT	NO WATER TABLE
APPROX	APPROXIMATE	OC	ON CENTER
BM	BENCH MARK	OCEW	ON CENTER EACH WAY
BOP	BEGINNING OF PROJECT	OD	OUTSIDE DIAMETER
BOS	BACK OF SHOULDER	OGS	OIL AND GRIT SEPARATOR
C&G	CURB AND GUTTER	OH	OVERHEAD
CB	CATCH BASIN	PC	POINT OF CURVATURE
CBMH	CATCH BASIN MANHOLE	PCC	PORTLAND CONCRETE CEMENT
CI	CAST IRON		POINT OF CONTINUOUS CURVATURE
C/L, CL	CENTERLINE / CLASS	PI	POINT OF INTERSECTION
CMP	CORRUGATED METAL PIPE	PL, P/L	PROPERTY LINE
CN	CURB NOSE	PCMP	PRECOATED CORRUGATED METAL PIPE
CO	CLEANOUT	PCPEP	PERFORATED CORRUGATED POLYETHYLENE PIPE
CONST	CONSTRUCTION		
CONT	CONTINUOUS	PT	POINT OF TANGENCY
CPEP	CORRUGATED POLYETHYLENE PIPE	PUE	PUBLIC USE EASEMENT
DIA	DIAMETER	PVC	POINT OF VERTICAL CURVATURE
DIP	DUCTILE IRON PIPE	PVC	POLYVINYL CHLORIDE
DW	DETECTABLE WARNING	PVI	POINT OF VERTICAL INTERSECTION
DWY	DRIVEWAY	PVT	POINT OF VERTICAL TANGENT
E	EAST	REINF	REINFORCEMENT
ELEC	ELECTRIC / ELECTRICAL	ROW, R/W	RIGHT OF WAY
ELEV, EL	ELEVATION	RT, R	RIGHT
EOP	END OF PROJECT / EDGE OF PAVEMENT	S	SOUTH
F&I	FURNISH AND INSTALL	S/W	SIDEWALK
FG	FINISHED GRADE	SS	STAINLESS STEEL
GALV	GALVINIZED	SEC COR	SECTION CORNER
GB	GRADE BREAK	SI	STREET INTERSECTION
HORIZ	HORIZONTAL	SIM	SIMILAR
JB	JUNCTION BOX	ST	STREET
LC	LOAD CENTER	STA	STATION / STATIONING
IAW	IN ACCORDANCE WITH	STD	STANDARD
ID	INSIDE DIAMETER	STRUCT	STRUCTURE
IE	INVERT ELEVATION	TBC	TOP BACK OF CURB
INTX	INTERSECTION	TBM	TEMPORARY BENCH MARK
INV	INVERT	TCP	TEMPORARY CONSTRUCTION PERMIT
LF	LINEAR FOOT	TELE	TELEPHONE
LOC	LIP OF CURB	TH	TEST HOLE
LT, L	LEFT	TW	TOP OF WALL
LUM	LUMINAIRE	TYP	TYPICAL
MAX	MAXIMUM	UG	UNDERGROUND
ME	MATCH EXISTING	UON	UNLESS OTHERWISE NOTED
MH	MANHOLE	UTIL	UTILITY
MIN	MINIMUM	VERT	VERTICAL
MON	MONUMENT	VB	VALVE BOX
MSL	MEAN SEA LEVEL	VC	VERTICAL CURVE
N	NORTH	W	WEST
N/A	NOT APPLICABLE	W/	WITH
N.I.C.	NOT IN CONTRACT	WSWR	WELDED STEEL WIRE REINFORCEMENT (FABRIC)

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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

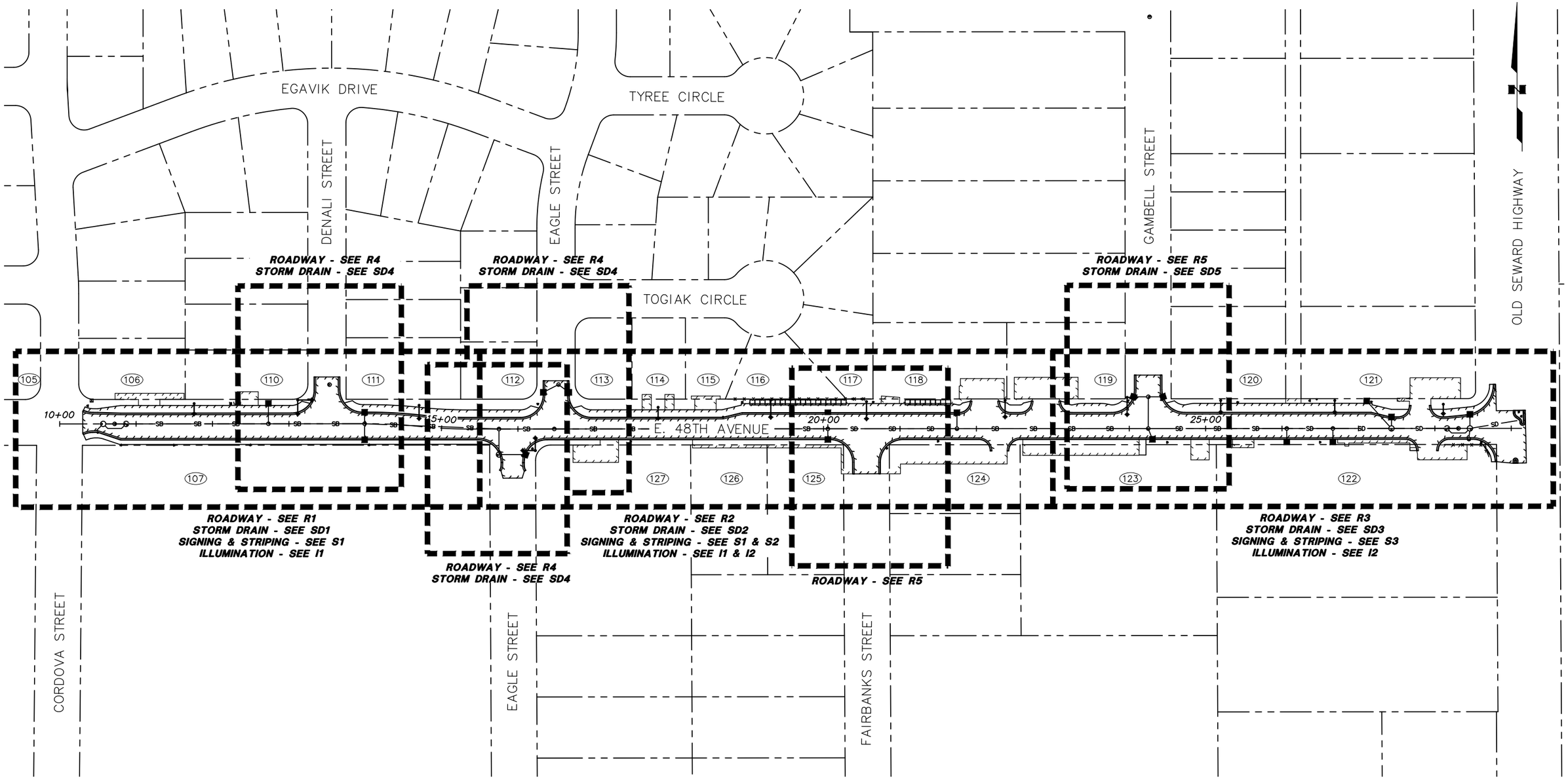
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

LEGEND & ABBREVIATIONS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET G4 of G5

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Legend And Abbreviations.dwg



NOTES:

1. *EXISTING UTILITIES, FEATURES & EASEMENTS 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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   BY: _____ TITLE: _____ DATE: _____
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   COMPANY: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

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

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

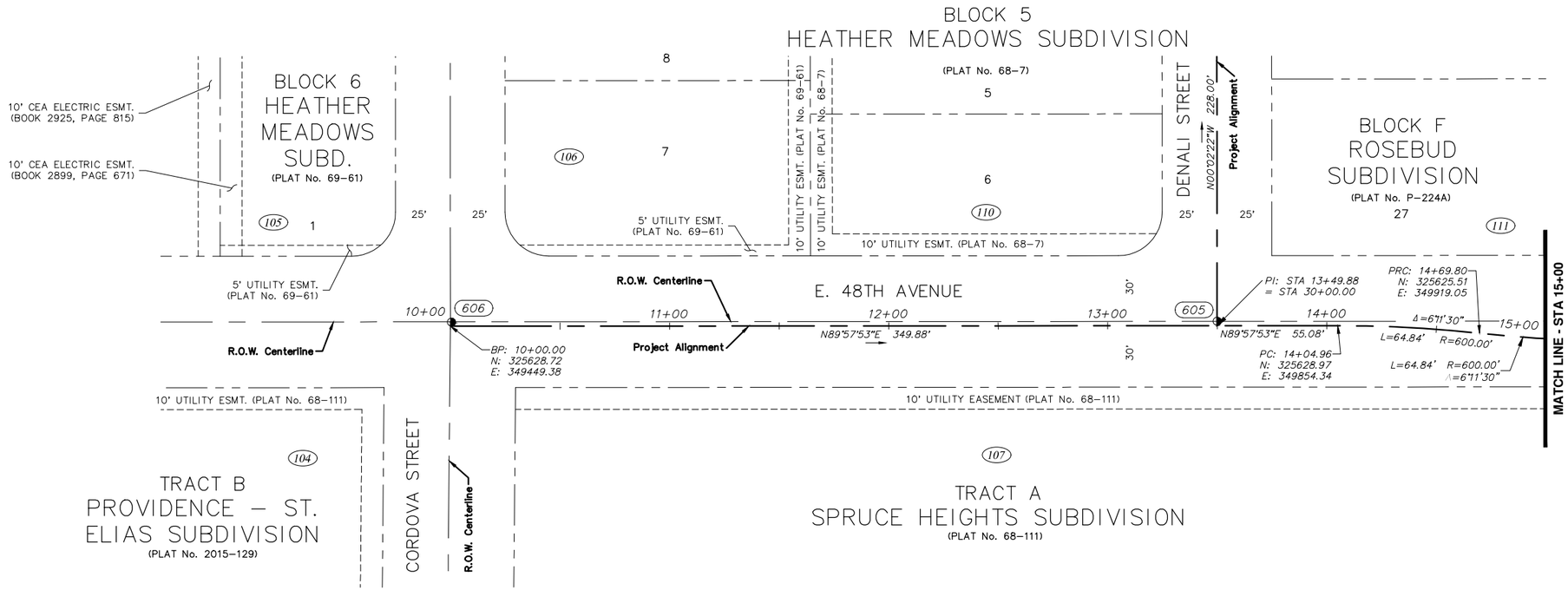
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 — 48TH AVENUE UPGRADES — ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

KEY MAP

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET G5 of G5

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Key Map.dwg



LEGEND

- Existing Monument
- Existing Rebar With Yellow Plastic or Aluminum Cap
- Existing Rebar
- Control set by CRW
- (107) Parcel Number
- (500) Control Point Number

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

Vertical control is based on the MOA Benchmarks GAAB-32, Elevation = 123.98 feet, a 2-1/2" Brass Cap set vertically and is located approximately 50 west of the southeast corner, 4748 Old Seward Highway, as described on page D-24 of the MOA Benchmark Book and shown on sheet V3, and CB-8C, Elevation = 135.32 feet, a 2-1/2" Brass Cap set vertically on the east face, 0.5 feet south of the northeast corner, 249 East 51st. Avenue, as described on page D-24 of the MOA Benchmark Book.

Horizontal Control - 48th Avenue Alignment

Point No	Northing	Easting	Station	Offset	Description
605	325630.94	349799.26	13+49.88	2.00 LT	Found 2" Aluminum Cap on 5/8" Rebar, In Mon Case 0.3' Below Rim
606	325630.51	349449.83	10+00.45	1.79 LT	Found 2 1/2" Aluminum Cap on 5/8" Rebar, In Mon Case 0.4' Below Rim

RECORD DRAWING

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

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

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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Anthony J. Robinson
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SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY ALL

SURVEY CONTROL

SCALE HOR. 1"=30' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET V1 of V3

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\02 Survey\03 Survey Control\10143.00 V1.dwg

BLOCK 5
HEATHER MEADOWS SUBDIVISION
(PLAT No. P-224A)

BLOCK 1
HEATHER MEADOWS SUBDIVISION
(PLAT No. 68-7)

15' CEA ELECTRIC ESMT. (BOOK 2914, PAGE 156)
10' UTILITY ESMT. (PLAT No. 68-7)
10' CEA ELECTRIC ESMT. (BOOK 2914, PAGE 155)
EAGLE STREET
Project Alignment
N00°02'15"W 221.00'
25'
10' UTILITY EASEMENT (PLAT No. 68-7)
10' UTILITY ESMT. (PLAT No. 68-7)
10' UTILITY ESMT. (PLAT No. 68-8)
BLOCK E
HEATHER MEADOWS SUBDIVISION
(PLAT No. 68-8)
LOT 6A BLOCK E
HEATHER MEADOWS SUBDIVISION
(PLAT No. 80-94)
10' ELEC. ESMT. (PLAT No. 80-94)
MATCH LINE - STA 15+00
MATCH LINE - STA 23+00
L=64.84' R=600.00' Δ=6°11'30"
N89°57'53"E 58.22'
57.06'
PI: STA 16+49.91 = STA 50+00.00
R.O.W. Centerline
Project Alignment
E. 48TH AVENUE
PI: STA 20+55.87 = STA 62+00.00
405.96'
N89°57'53"E 463.02'
369.01'
N89°57'53"E 857.69'
PI: STA 15+92.85 = STA 42+00.00
15+00
16+00
17+00
18+00
19+00
20+00
21+00
22+00
23+00
30'
10' UTILITY ESMT. (PLAT No. 68-111)
TRACT A
SPRUCE HEIGHTS SUBDIVISION
(PLAT No. 68-111)
Project Alignment
S00°18'00"E 239.00'
EAGLE STREET
LOT 7G, BLOCK 2
INTERAIR SUBDIVISION
(PLAT No. 76-149)
LOTS 5A-5F, 6A-6F & 7A-7F, BLOCK 2
INTERAIR SUBDIVISION
(PLAT No. 71-93)
10' UTILITY ESMT. (PLAT No. 71-93)
FAIRBANKS STREET
S00°18'00"E 239.00'
10' SANITARY SEWER ESMT. (BOOK 345, PAGE 763)
10' UTILITY ESMT. (PLAT No. 74-11)
LOTS 9A - 9D, BLOCK 1
INTERAIR SUBDIVISION
(PLAT No. 74-11)
9A
9B
9C
7D
7E

Horizontal Control – 48th Avenue Alignment					
Point No	Northing	Easting	Station	Offset	Description
603	325631.23	350504.44	20+55.32	8.86 LT	Found 1 1/2" Copper Weld, Flush with Pavement
604	325631.34	350041.51	15+92.38	9.26 LT	Found 1 1/2" Copper Weld, 0.15' Below Pavement
* 611	325792.26	350098.53	16+49.51	170.14 LT	Found 2 " Aluminum Cap on 5/8" Rebar, In Mon Case 0.25' Below Rim
620	325661.29	350689.56	22+40.46	38.81 LT	Found 2 1/2" Aluminum Cap on 2 3/8" Aluminum Post, 0.55' Above Ground
* 628	325350.44	350073.36	16+24.06	271.67 RT	Found 5/8" Rebar, tied center of rotation

* *Monument not shown hereon*

LEGEND

- Existing Monument
- Existing Rebar With Yellow Plastic or Aluminum Cap
- Existing Rebar
- Control set by CRW
- (107) Parcel Number
- (500) Control Point Number

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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COMPANY: _____ DATE: _____
BY: _____

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

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV.	DATE	DESCRIPTION	BY

REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

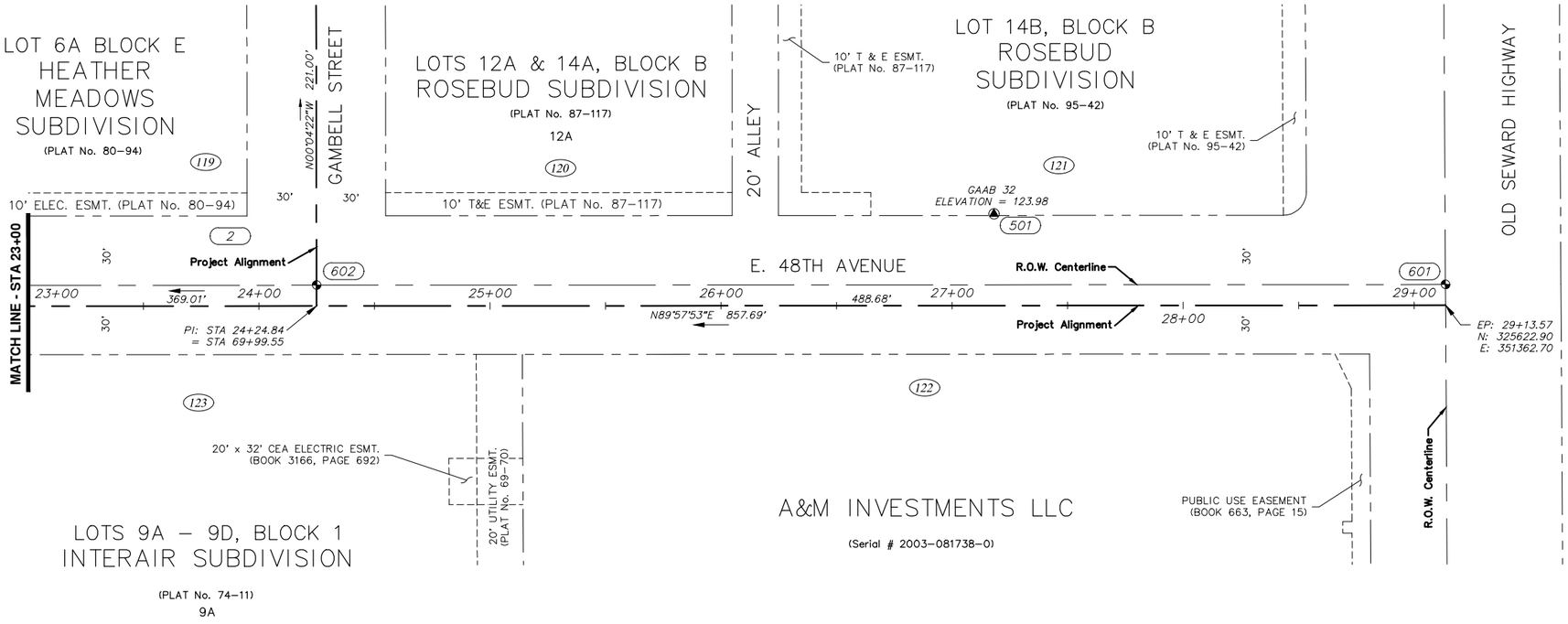
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY ALL

SURVEY CONTROL

SCALE HOR. 1"=30' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET V2 of V3

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\02 Survey\03 Survey Control\10143.00 V2.dwg



LEGEND

- Existing Monument
- Existing Rebar With Yellow Plastic or Aluminum Cap
- Existing Rebar
- Control set by CRW
- Vertical Bench Mark - GAAB-32
- (107) Parcel Number
- (500) Control Point Number

Horizontal Control - 48th Avenue Alignment					
Point No	Northing	Easting	Station	Offset	Description
601	325631.90	351362.65	29+13.53	9.00 LT	Found 1 1/2" Copper Weld, In Mon Case 1' Below Rim
602	325631.64	350874.00	24+24.88	9.04 LT	Found 1/2" Copper Rod, Flush With Pavement
* 627	325782.63	350903.62	24+54.59	160.01 LT	Found 5/8" Rebar, tied center of rotation

Vertical Control - 48th Avenue Alignment						
Point No	Northing	Easting	Elevation	Station	Offset	Description
501	325662	351167	123.98	27+18	39.7 LT	MOA Benchmark GAAB-32, 2 1/2" Brass Cap Set Vertically in Building Wall

** Monument not shown hereon*

RECORD DRAWING

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STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV.	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

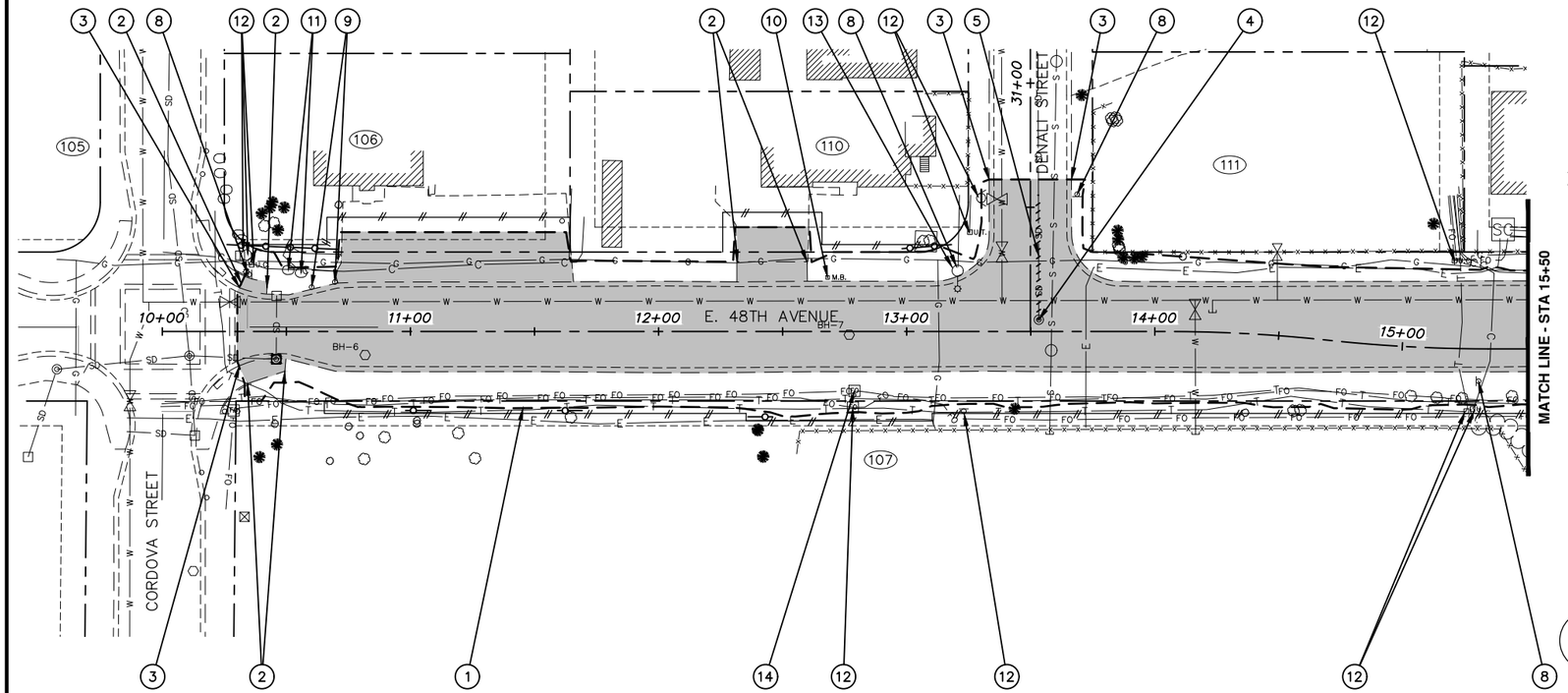
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

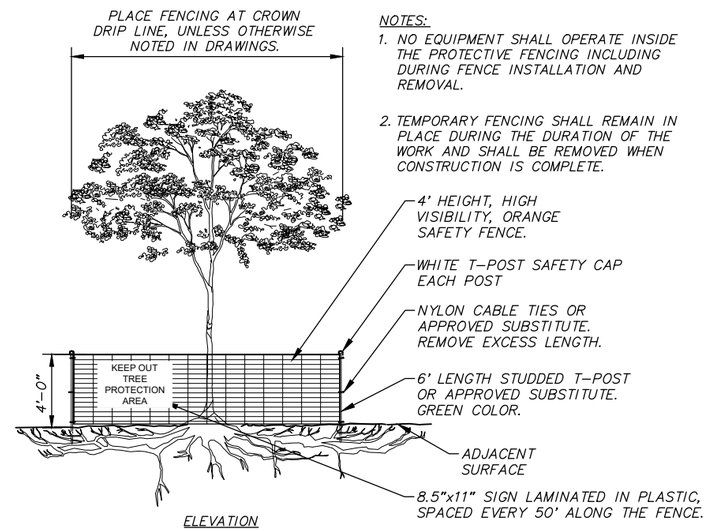
06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY ALL

SURVEY CONTROL

SCALE HOR. 1"=30' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET V3 of V3

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\02 Survey\03 Survey Control\10143.00 V3.dwg





ELEVATION

NOTES:
1. NO EQUIPMENT SHALL OPERATE INSIDE THE PROTECTIVE FENCING INCLUDING DURING FENCE INSTALLATION AND REMOVAL.
2. TEMPORARY FENCING SHALL REMAIN IN PLACE DURING THE DURATION OF THE WORK AND SHALL BE REMOVED WHEN CONSTRUCTION IS COMPLETE.

1 TEMPORARY TREE PROTECTION FENCE DETAIL

SCALE: NTS

LEGEND

(1) CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TEMPORARY TREE PROTECTION FENCES (SECTION 75.12) HAVE BEEN ESTABLISHED AS SHOWN, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04). NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

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

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

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

(5) REMOVE PIPE (SECTION 70.07).

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

(9) REMOVE BOLLARD (SECTION 70.13).

(10) RELOCATE MAILBOX (SECTION 70.17).

(11) SALVAGE AND RELOCATE EXISTING BOULDERS OR DISPOSE OF BOULDERS AS DIRECTED IN THE FIELD BY ENGINEER (SECTION 75.11).

(12) PROTECT IN PLACE.

(13) REMOVE LUMINAIRE POLE (BY OTHERS).

(14) REMOVE FIBER OPTIC VAULT (BY OTHERS)

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

TEMPORARY TREE PROTECTION FENCE (SECTION 75.12), LOCATIONS TO BE FIELD VERIFIED, SEE DETAIL 1, THIS SHEET.

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

PLAN CHECK

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

CONSTRUCTION RECORD

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

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CE-123959
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

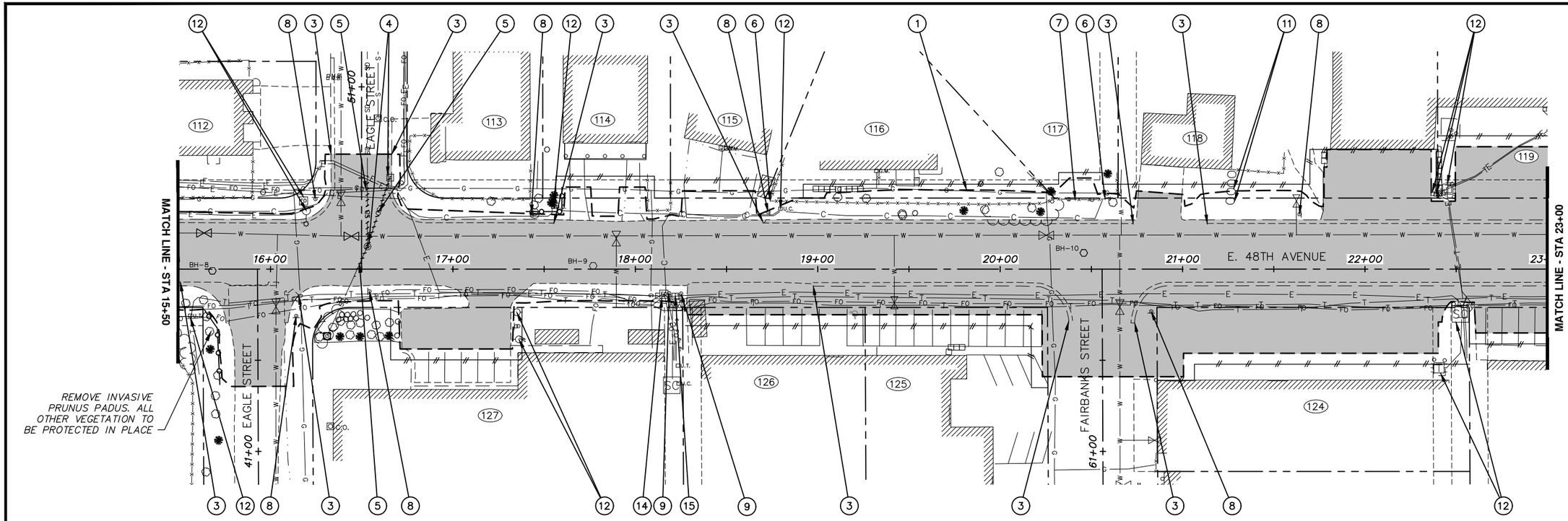
06-26 48TH AVENUE UPGRADES ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

DEMOLITION PLAN

E. 48TH AVENUE
BOP TO STA 15+50

SCALE HOR. 1"=30' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET B1 of B6

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Demolition Plan.dwg



LEGEND

(1) CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TEMPORARY TREE PROTECTION FENCES (SECTION 75.12) HAVE BEEN ESTABLISHED AS SHOWN, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04). NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.

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

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

(5) REMOVE PIPE (SECTION 70.07).

(6) REMOVE AND RESET FENCE (SECTION 70.08).

(7) REMOVE AND RESET GATE (SECTION 70.08)

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

(9) REMOVE BOLLARD (SECTION 70.13).

(11) SALVAGE AND RELOCATE EXISTING BOULDERS OR DISPOSE OF BOULDERS AS DIRECTED IN THE FIELD BY ENGINEER (SECTION 75.11).

(12) PROTECT IN PLACE.

(13) REMOVE LUMINAIRE POLE (BY OTHERS).

(14) REMOVE FIBER OPTIC VAULT (BY OTHERS)

(15) REMOVE JUNCTION BOX (BY OTHERS)

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

TEMPORARY TREE PROTECTION FENCE (SECTION 75.12), LOCATIONS TO BE FIELD VERIFIED, SEE DETAIL 1 ON SHEET B1.

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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

GRAPHIC 60 30 0 30 60 SCALE

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

VERTICAL DATUM
BASIS OF THIS DATUM GAAB 1972 ADJUST

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

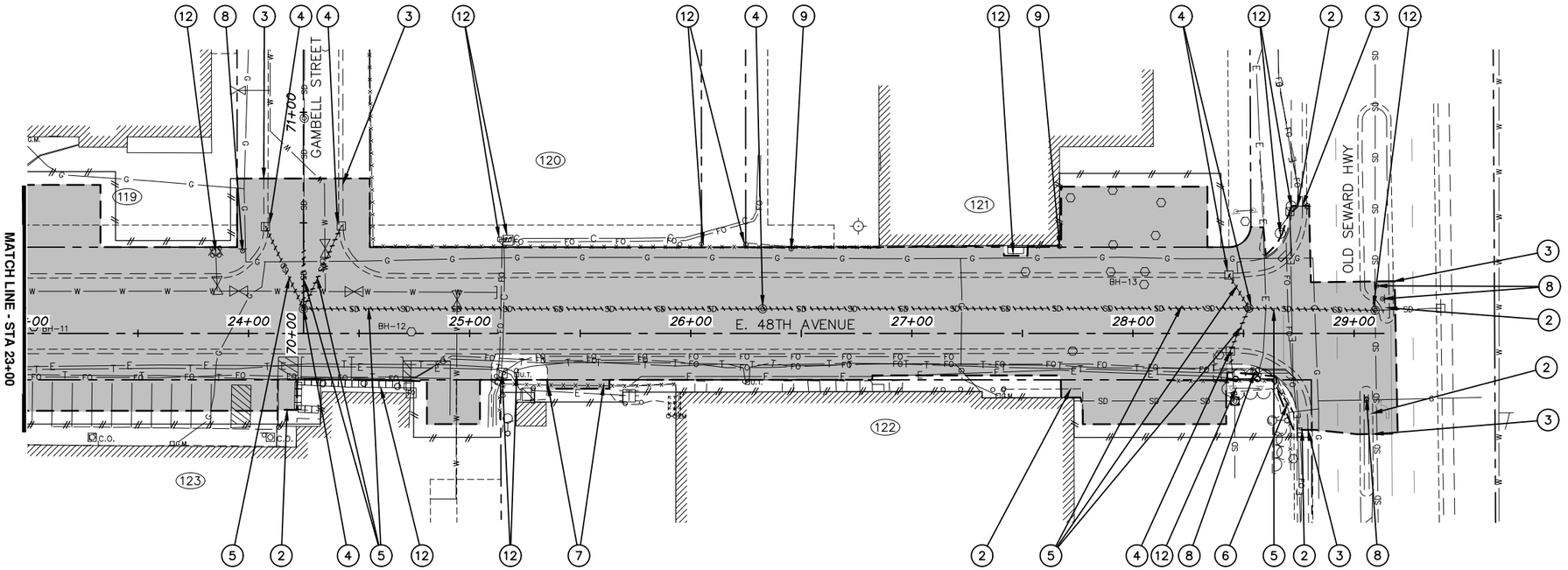
06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY ALL

DEMOLITION PLAN

E. 48TH AVENUE
STA 15+50 TO STA 23+00

SCALE HOR. 1"=30' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET B2 of B6

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Demolition Plan.dwg



LEGEND

1. *CLEAR AND GRUB WITHIN LIMITS OF DISTURBANCE AFTER CLEARING LIMITS HAVE BEEN APPROVED AND AFTER TEMPORARY TREE PROTECTION FENCES (SECTION 75.12) HAVE BEEN ESTABLISHED AS SHOWN, OR AS DIRECTED BY THE ENGINEER IN THE FIELD (SECTION 20.04). NOT ALL TREES, SHRUBS, AND VEGETATION ARE SPECIFICALLY CALLED OUT OR SHOWN.*
2. *REMOVE SIDEWALK OR CONCRETE APRON (SECTION 20.07).*
3. *REMOVE CURB AND GUTTER (SECTION 20.08).*
4. *REMOVE MANHOLE OR CATCH BASIN (SECTION 55.11).*
5. *REMOVE PIPE (SECTION 70.07).*
6. *REMOVE AND RESET FENCE (SECTION 70.08).*
7. *REMOVE AND RESET GATE (SECTION 70.08)*
8. *REMOVE AND SALVAGE SIGN. THIS WORK SHALL BE INCIDENTAL TO THE BID ITEM STANDARD SIGNS (SECTION 70.11).*
9. *REMOVE BOLLARD (SECTION 70.13).*
12. *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

TEMPORARY TREE PROTECTION FENCE (SECTION 75.12), LOCATIONS TO BE FIELD VERIFIED, SEE DETAIL 1 ON SHEET B1.

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: _____

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

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06–26 48TH AVENUE UPGRADES ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

DEMOLITION PLAN

E. 48TH AVENUE
STA 23+00 TO EOP

SCALE HOR. 1"=30'
VER. N/A
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET B3 of B6

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Demolition Plan.dwg

20.07

REMOVE SIDEWALK OR CONCRETE APRON ②

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	AREA (SY)	REMARKS
B1	10+31.0	17.7 LT	10+42.0	15.1 LT	6	E. 48TH AVENUE AND CORDOVA STREET
B1	10+31.1	13.8 RT	10+49.8	11.1 RT	14	E. 48TH AVENUE AND CORDOVA STREET
B1	12+31.6	20.0 LT	12+60.0	20.2 LT	25	PARCEL 110 DRIVEWAY
B3	24+13.5	21.2 RT	24+22.0	21.2 RT	13	PARCEL 123 SIDEWALK
B3	27+67.3	25.1 RT	27+76.3	25.0 RT	4	PARCEL 122 SIDEWALK
B3	28+36.4	8.7 RT	28+79.1	43.8 RT	34	E. 48TH AVENUE AND OLD SEWARD HIGHWAY
B3	28+47.4	27.2 LT	28+76.6	57.5 LT	25	E. 48TH AVENUE AND OLD SEWARD HIGHWAY
B3	29+04.5	26.8 RT	29+06.5	26.8 RT	4	OLD SEWARD HIGHWAY MEDIAN
B3	29+04.7	23.5 LT	29+15.7	23.5 LT	12	OLD SEWARD HIGHWAY MEDIAN

20.08

REMOVE CURB AND GUTTER ③

SHEET	APPX STATION BEGIN	APPX OFFSET (FT)	APPX STATION END	APPX OFFSET (FT)	LENGTH (FT)	REMARKS
B1	10+31.1	13.8 RT	15+50	9.2 RT	520	E. 48TH AVENUE
B1	10+31.0	17.7 LT	13+33.2	61.2 LT	336	E. 48TH AVENUE / DENALI STREET
B1	13+66.4	61.2 LT	15+50.0	27.4 LT	216	E. 48TH AVENUE / DENALI STREET
B2	15+50.0	9.2 RT	15+75.6	29.5 RT	37	E. 48TH AVENUE / EAGLE STREET SOUTH
B2	15+50.0	27.4 LT	16+33.3	63.1 LT	111	E. 48TH AVENUE / EAGLE STREET NORTH
B2	16+08.3	29.6 RT	16+15.6	14.5 RT	17	E. 48TH AVENUE / EAGLE STREET SOUTH
B2	16+66.5	63.1 LT	17+55.9	27.1 LT	117	E. 48TH AVENUE / EAGLE STREET NORTH
B2	18+71.6	27.1 LT	20+73.1	27.0 LT	202	E. 48TH AVENUE
B2	18+97.6	9.3 RT	20+37.6	28.6 RT	151	E. 48TH AVENUE / FAIRBANKS STREET
B2	20+73.7	29.5 RT	23+00.0	9.2 RT	238	E. 48TH AVENUE / FAIRBANKS STREET
B2	21+12.8	27.0 LT	23+00.0	27.0 LT	187	E. 48TH AVENUE
B3	23+00.0	9.2 RT	28+79.1	43.6 RT	601	E. 48TH AVENUE / OLD SEWARD HIGHWAY
B3	23+00.0	27.0 LT	24+06.9	70.0 LT	141	E. 48TH AVENUE / GAMBELL STREET
B3	24+42.7	70.1 LT	28+76.6	57.7 LT	487	E. 48TH AVENUE / GAMBELL STREET / OLD SEWARD HIGHWAY
B3	29+04.6	45.5 RT	29+06.6	45.6 RT	40	OLD SEWARD HIGHWAY MEDIAN
B3	29+04.8	23.5 LT	29+15.7	23.5 LT	38	OLD SEWARD HIGHWAY MEDIAN

20.09

REMOVE PAVEMENT

SHEET	STATION TO STATION	OFFSET	AREA (SY)	REMARKS
B1	BOP TO 15+50	LT & RT	2,260	E. 48TH AVENUE, DENALI STREET, DRIVEWAYS
B2	15+50 TO 23+00	LT & RT	5,293	E. 48TH AVENUE, EAGLE STREET NORTH, EAGLE STREET SOUTH, FAIRBANKS STREET, DRIVEWAYS
B3	23+00 TO EOP	LT & RT	4,670	E. 48TH AVENUE, GAMBELL STREET, OLD SEWARD HIGHWAY, DRIVEWAYS

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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

CONSTRUCTION RECORD

FIELD BOOKS	
DESIGN CRW BOOK No. 161 & 186	
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB-32	See MOA Benchmark Book, Page D-24	123.98
CB-8C	See MOA Benchmark Book, Page D-24	135.32

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

SEAL

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

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

DEMOLITION SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET B4 of B6

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Demolition Summary Tables.dwg

55.11

REMOVE MANHOLE OR CATCH BASIN ④

SHEET	APPX STATION	APPX OFFSET (FT)	CATCH BASIN	MANHOLE	REMARKS
B1	13+53.3	4.7 LT		X	
B2	16+53.2	12.4 LT		X	
B2	16+65.7	50.2 LT	X		
B3	24+07.7	48.3 LT	X		
B3	24+24.9	11.1 LT		X	
B3	24+42.0	48.6 LT	X		
B3	26+32.5	11.1 LT		X	
B3	28+43.4	26.5 LT	X		
B3	28+44.1	7.9 RT	X		
B3	28+52.4	11.4 LT		X	

70.07

REMOVE PIPE ⑤

SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	SIZE (INCH)	LENGTH (FT)	REMARKS
B1	13+53.3	4.7 LT	13+53.1	51.2 LT	12	47	STORM DRAIN
B2	16+53.2	12.4 LT	16+53.1	48.0 LT	12	36	STORM DRAIN
B2	16+53.2	12.4 LT	16+65.5	50.8 LT	12	40	STORM DRAIN
B2	16+53.2	12.4 LT	16+47.6	CL	12	14	STORM DRAIN
B3	24+24.9	11.1 LT	24+07.7	48.3 LT	10	41	STORM DRAIN
B3	24+24.9	11.1 LT	24+25.0	41.6 LT	15	31	STORM DRAIN
B3	24+24.9	11.1 LT	24+42.0	48.6 LT	10	41	STORM DRAIN
B3	24+24.9	11.1 LT	26+32.5	11.1 LT	15	208	STORM DRAIN
B3	26+32.5	11.1 LT	28+52.4	11.4 LT	15	220	STORM DRAIN
B3	28+52.4	11.4 LT	28+43.4	26.5 LT	10	16	STORM DRAIN
B3	28+52.4	11.4 LT	28+44.0	7.8 RT	10	21	STORM DRAIN
B3	28+52.4	11.4 LT	29+09.5	10.4 LT	15	57	STORM DRAIN
B3	28+44.0	7.8 RT	28+44.6	14.0 RT	4	6	STORM DRAIN

70.11

REMOVE AND SALVAGE SIGN ⑧

SHEET	APPX STATION	APPX OFFSET (FT)	SIGN TYPE	LEGEND	SIGN POST	REMARKS
B1	10+35	23.0 RT	R1–1	STOP	PERFORATED STEEL TUBE	
			D3–1D	E 48TH AVE		
			D3–1D	CORDOVA ST		
B1	13+69	55.3 LT	D3–1D	E 48TH AVE	MOUNTED ON LIGHT POLE	
			D3–1D	DENALI STREET		
B1	15+31	13.0 RT	R7–101L	NO PARKING LEFT	PERFORATED STEEL TUBE	
B2	16+14	25.7 RT	R1–1	STOP	PERFORATED STEEL TUBE	
B2	16+25	38.5 LT	R1–1	STOP	STEEL POST	
			D3–1D	E 48TH AVE		
			D3–1D	EAGLE ST		
B2	15+31	13.0 RT	R7–101R	NO PARKING RIGHT	PERFORATED STEEL TUBE	
B2	17+43	30.5 LT	R7–101LR	NO PARKING LEFT RIGHT	PERFORATED STEEL TUBE	
B2	18+73	31.3 LT	R7–101L	NO PARKING LEFT	PERFORATED STEEL TUBE	
B2	20+83	23.2 RT	R1–1	STOP	PERFORATED STEEL TUBE	
			D3–1D	E 48TH AVE		
			D3–1D	FAIRBANKS ST		
B2	21+64	30.1 LT	R2–1	SPEED LIMIT 25	PERFORATED STEEL TUBE	
B3	23+97	37.3 LT	R1–1	STOP	PERFORATED STEEL TUBE	
			D3–1D	E 48TH AVE		
			D3–1D	GAMBELL ST		
B3	28+55	17.6 RT	R1–1	STOP	STEEL POST	
			D3–1D	E 48TH AVE		
			D3–1D	OLD SEWARD HIGHWAY		
B3	29+06	29.6 RT	R3–2	NO LEFT TURN	PERFORATED STEEL TUBE	
			R6–1R	ONE WAY		
B3	29+10	21.5 LT	R3–2	NO LEFT TURN	PERFORATED STEEL TUBE	
			R6–1R	ONE WAY		
B3	29+13	15.6 LT	W12–1	DOUBLE ARROW	PERFORATED STEEL TUBE	

NOTE: WORK TO REMOVE AND SALVAGE EXISTING SIGNS & POSTS SHALL BE INCIDENTAL TO SECTION 70.11 STANDARD SIGN PAY ITEM.

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Demolition Summary Tables.dwg

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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   CONTRACTOR: _____
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DATA	DRAWN BY	CHECKED BY
BASE	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
ANCHORAGE, ALASKA 99503
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06–26 48TH AVENUE UPGRADES ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

DEMOLITION SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET B5 of B6

70.08

REMOVE AND RESET FENCE ⑥

SHEET	EXISTING LOCATION				PROPOSED LOCATION				LENGTH (FT)	REMARKS
	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)		
B2	18+74.3	37.4 LT	19+35.8	36.0 LT	18+74.4	39.0 LT	19+35.8	39.0 LT	61.5	WOOD
B2	19+35.8	36.0 LT	20+37.6	38.3 LT	19+35.8	39.0 LT	20+37.6	39.0 LT	104.3	CHAIN LINK
B2	20+50.5	38.1 LT	20+64.4	39.1 LT	20+49.6	39.0 LT	20+64.4	39.2 LT	13.9	CHAIN LINK
B3	28+15.5	21.4 RT	28+64.2	21.7 RT	28+15.5	21.0 RT	28+64.2	21.0 RT	48.8	BOLLARD AND CHAIN
B3	28+64.2	21.7 RT	28+70.8	37.2 RT	28+64.2	21.0 RT	28+70.8	37.2 RT	17.0	BOLLARD AND CHAIN

NOTES:

1. PROVIDE TEMPORARY FENCING PER SECTION 70.24 FOR ALL FENCES REMOVED OR AS DIRECTED BY THE ENGINEER.
2. STAKE RESET FENCE LAYOUT IN THE FIELD FOR ENGINEER TO REVIEW AND APPROVE PRIOR TO INSTALLATION. THIS WORK SHALL BE INCIDENTAL TO SECTION 70.08 PAY ITEM.

70.08

REMOVE AND RESET GATE ⑦

SHEET	EXISTING LOCATION				PROPOSED LOCATION				LENGTH (FT)	REMARKS
	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)		
B2	20+37.6	38.4 LT	20+50.5	38.1 LT	20+37.6	39.0 LT	20+49.6	39.0 LT	13.0	SWING GATE
B3	25+35.1	23.4 RT	25+63.2	23.7 RT	25+35.1	23.4 RT	25+63.2	23.7 RT	28.0	SLIDING GATE

70.13

REMOVE BOLLARD ⑨

SHEET	STATION	OFFSET (FT)	REMARKS
B1	10+60.2	17.9 LT	FLEXIBLE DELINEATOR
B1	10+69.6	19.9 LT	FLEXIBLE DELINEATOR
B3	26+45.4	38.2 LT	STEEL BOLLARD
B3	27+66.9	39.3 LT	STEEL BOLLARD

70.17

RELOCATE MAILBOX ⑩

EXISTING LOCATION			NEW LOCATION		
SHEET	APPX STATION	APPX OFFSET (FT)	APPX STATION	APPX OFFSET (FT)	REMARKS
B1	12+68.1	21.7 LT	12+23.8	26.5 LT	

NOTE: SEE SHEET D6 FOR MAILBOX INSTALLATION DETAILS

75.11

SALVAGE AND RELOCATE OR DISPOSE EXISTING BOULDER ⑪

EXISTING LOCATION			
SHEET	APPX STATION	APPX OFFSET (FT)	REMARKS
B1	10+50.8	24.8 LT	
B1	10+55.9	23.6 LT	
B2	21+26.1	37.4 LT	
B2	21+26.6	42.6 LT	

75.12

TEMPORARY TREE PROTECTION FENCE

SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
B1	10+26.1	35.0 LT	10+71.0	33.0 RT	45.0	
B1	10+98.1	31.8 RT	11+08.1	31.8 RT	10.0	
B1	11+59.2	31.9 RT	11+69.2	31.9 RT	10.0	
B1	12+36.1	34.4 RT	12+46.1	34.4 RT	10.0	
B1	12+98.1	33.3 RT	13+18.1	35.0 LT	20.0	
B2	15+63.9	22.5 RT	15+70.8	32.4 RT	12.0	
B2	15+70.8	32.4 RT	15+72.2	63.3 RT	31.0	
B2	17+39.8	31.6 LT	17+59.8	31.6 LT	20.0	
B2	17+59.8	31.6 LT	17+59.8	45.6 LT	14.0	
B3	28+43.3	20.6 RT	28+63.3	20.6 RT	20.0	

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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

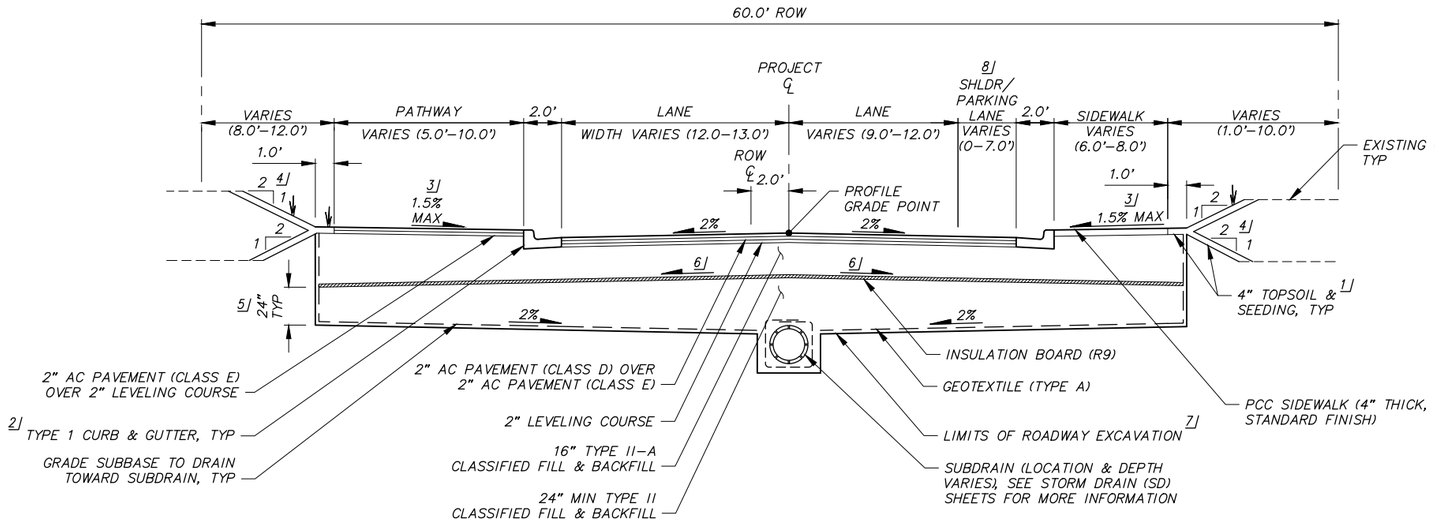
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES ALL
CORDOVA STREET TO OLD SEWARD HIGHWAY

DEMOLITION SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET B6 of B6

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Demolition Summary Tables.dwg



1

TYPICAL SECTION "A" - E. 48TH AVENUE

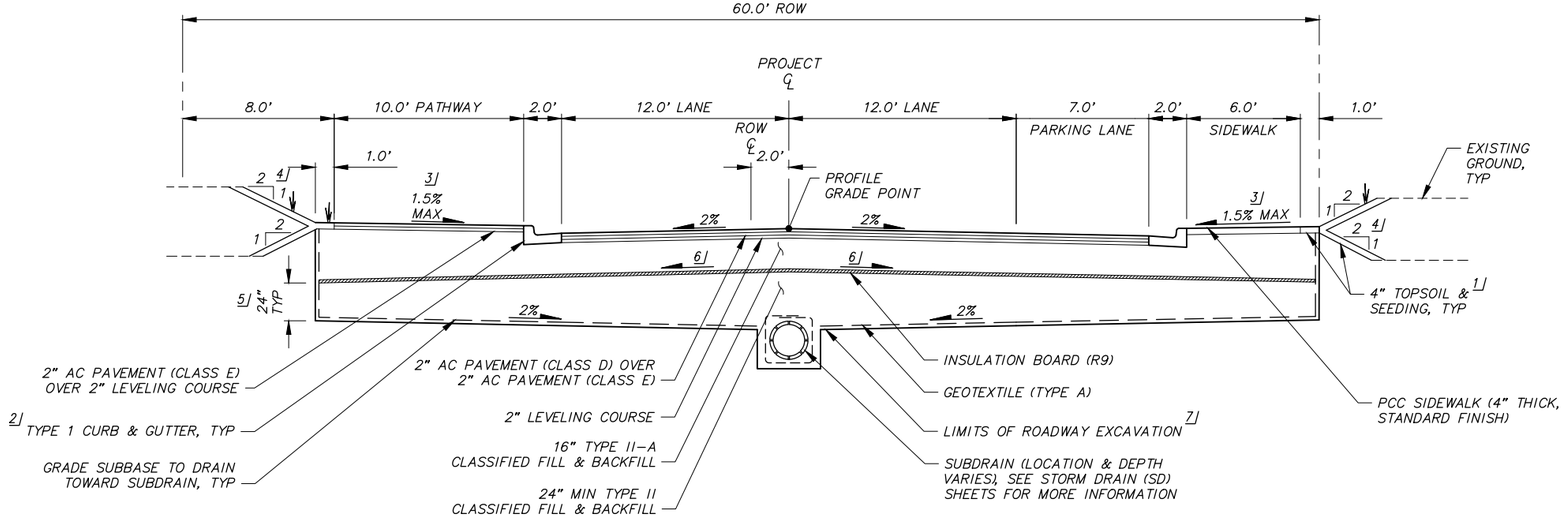
STA 10+30.22 TO 10+79.81

SHEET NOTES:

1. 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 ⅛" – ¼" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 4, SHEET C5.
3. THE MAXIMUM PATHWAY/SIDEWALK CROSS SLOPE GRADE IS 2% AT DRIVEWAYS. TRANSITION FROM TYPICAL 1.5% SIDEWALK CROSS SLOPE OVER 5 FEET.
4. THE MAXIMUM (STEEPEST) AND TYPICAL CUT/FILL SLOPES ARE 2 (HORIZONTAL) : 1 (VERTICAL). FILL SLOPES MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. SEE DETAIL 3, SHEET C5. SEE ROADWAY SHEETS FOR LOCATIONS. THE ENGINEER MAY ADJUST THE TYPICAL SLOPES IN THE FIELD.
5. THE MINIMUM 24" DEPTH OF TYPE II CLASSIFIED FILL & BACKFILL MATERIAL IS MEASURED AT THE EDGE OF EXCAVATION.
6. INSULATION SLOPE SHALL MATCH ROADWAY CROSS SLOPE.
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. SHOULDER/PARKING LANE WIDTH VARIES FOR TRANSITIONS BETWEEN TYPICAL SECTIONS, SEE INTERSECTION LAYOUT SHEETS FOR CURB LAYOUT AND NECKDOWN/PARKING TRANSITIONS.



2

TYPICAL SECTION "B" - E. 48TH AVENUE

STA 10+79.81 TO 13+96.58

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

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

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

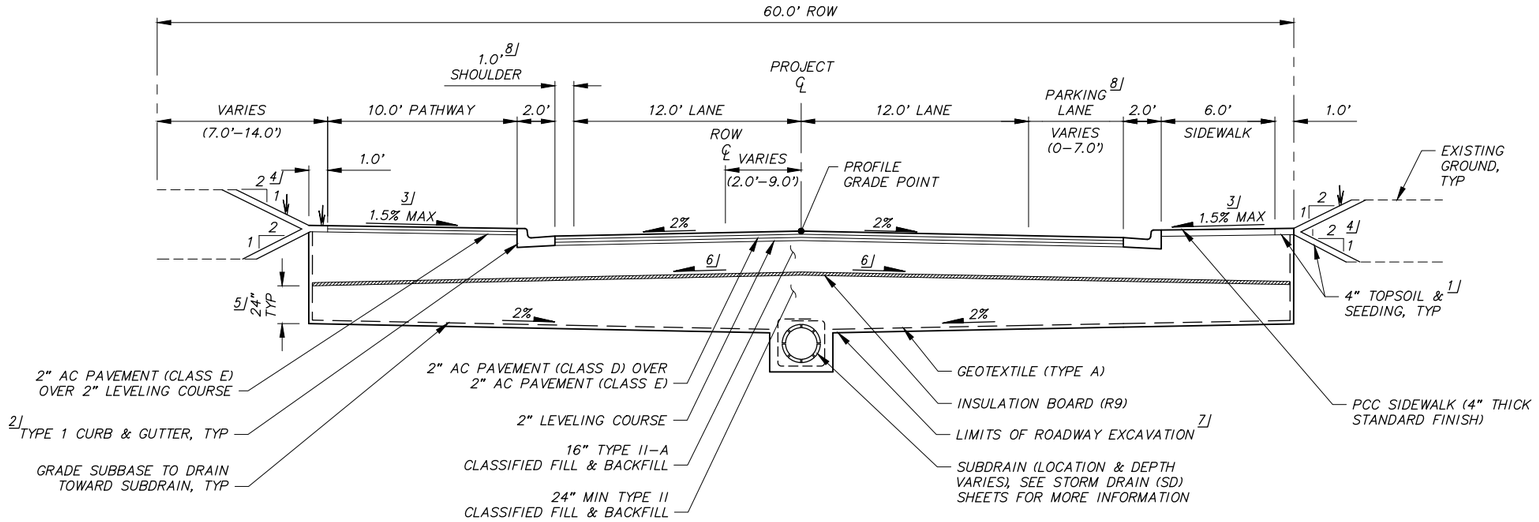
06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

TYPICAL SECTIONS

E. 48TH AVENUE

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET C1 of C5

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Typical Sections.dwg



1

TYPICAL SECTION "C" - E. 48TH AVENUE

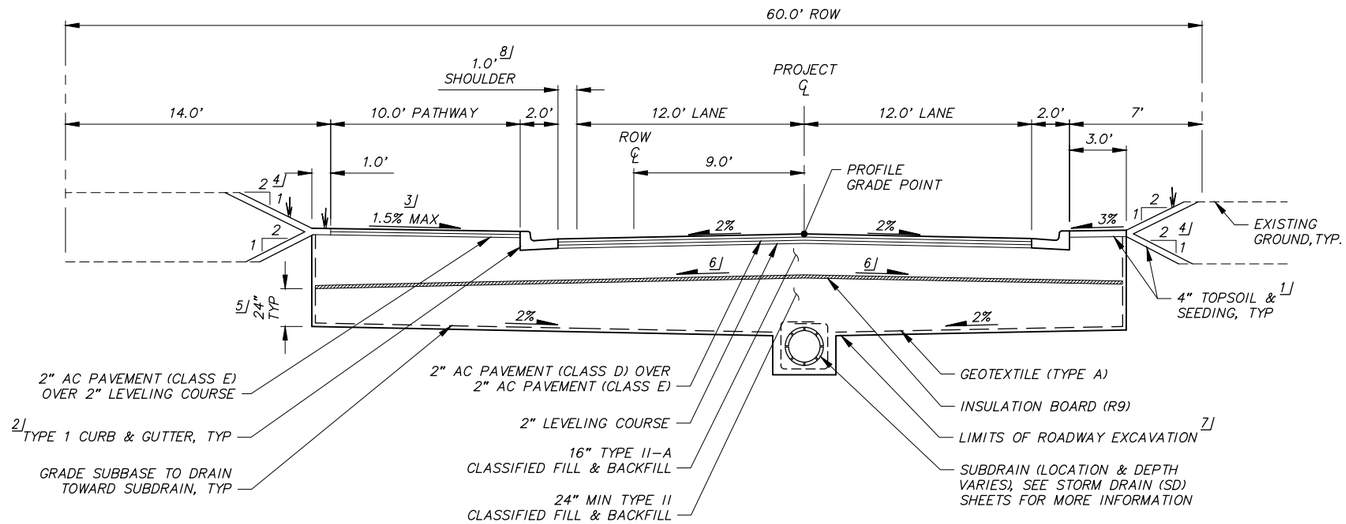
STA 13+96.58 TO 15+66.06

SHEET NOTES:

1. 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 ⅛" – ¼" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 4, SHEET C5.
3. THE MAXIMUM PATHWAY/SIDEWALK CROSS SLOPE GRADE IS 2% AT DRIVEWAYS. TRANSITION FROM TYPICAL 1.5% SIDEWALK CROSS SLOPE OVER 5 FEET.
4. THE MAXIMUM (STEEPEST) AND TYPICAL CUT/FILL SLOPES ARE 2 (HORIZONTAL) : 1 (VERTICAL). FILL SLOPES MAY VARY ALONG ROADWAY TO PROVIDE POSITIVE DRAINAGE TOWARD ROADWAY. SEE DETAIL 3, SHEET C5. SEE ROADWAY SHEETS FOR LOCATIONS. THE ENGINEER MAY ADJUST THE TYPICAL SLOPES IN THE FIELD.
5. THE MINIMUM 24" DEPTH OF TYPE II CLASSIFIED FILL & BACKFILL MATERIAL IS MEASURED AT THE EDGE OF EXCAVATION.
6. INSULATION SLOPE SHALL MATCH ROADWAY CROSS SLOPE.
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. SHOULDER/PARKING LANE WIDTH VARIES FOR TRANSITIONS BETWEEN TYPICAL SECTIONS, SEE INTERSECTION LAYOUT SHEETS FOR CURB LAYOUT AND NECKDOWN/PARKING TRANSITIONS.



2

TYPICAL SECTION "D" - E. 48TH AVENUE

STA 15+66.06 TO 18+93.42

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: _____
   BY: _____

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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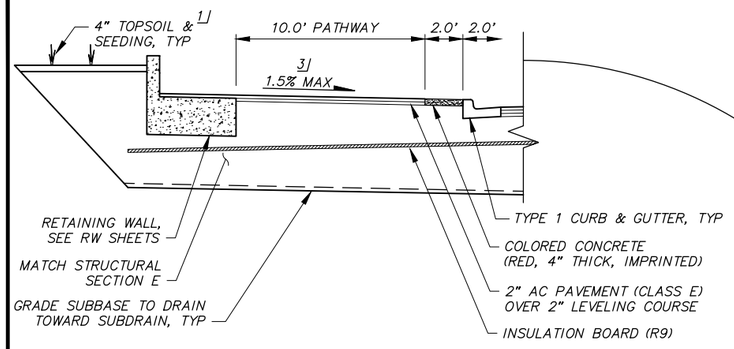
06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

TYPICAL SECTIONS

E. 48TH AVENUE

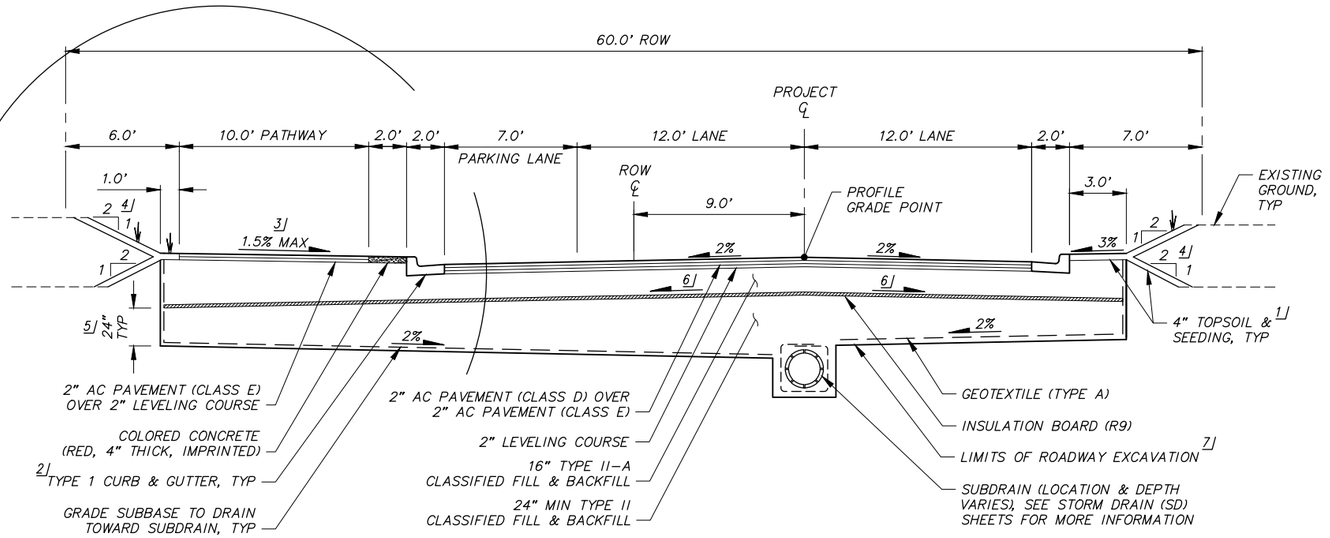
SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET C2 of C5

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Typical Sections.dwg



2 TYPICAL SECTION "E1" E. 48th AVENUE

STA 19+03.00 TO STA 20+30.06, LT
STA 21+05.00 TO STA 21+68.00, LT



1 TYPICAL SECTION "E" - E. 48TH AVENUE

STA 18+93.42 TO 24+24.95

SHEET NOTES:

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

#/ FOOT NOTES:

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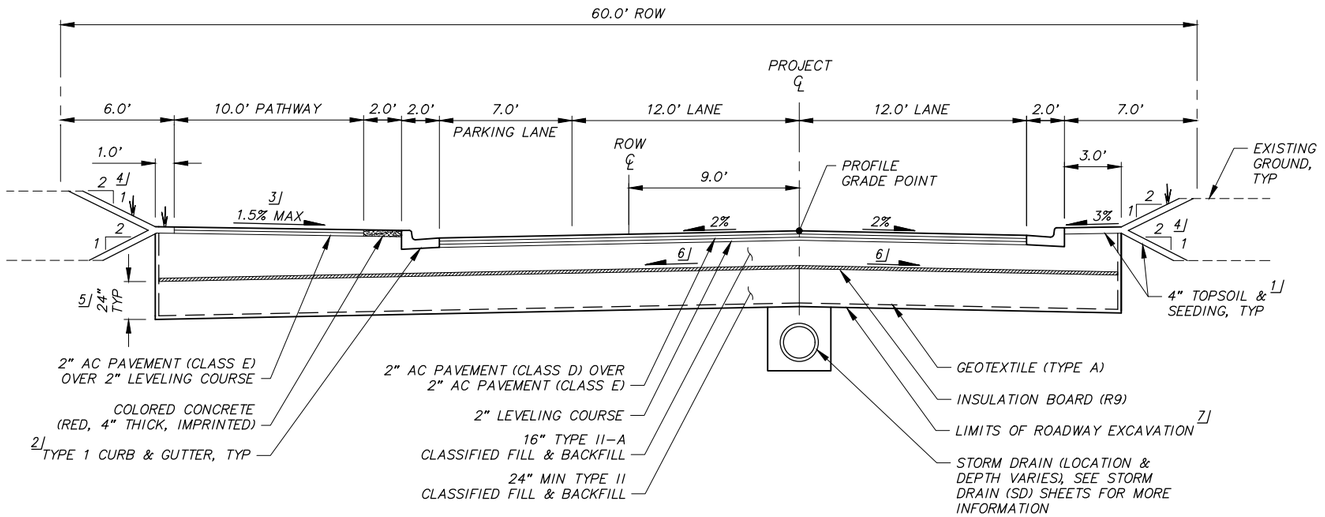

2 TYPICAL SECTION "F" - E. 48TH AVENUE

STA 24+24.95 TO 27+16.72

RECORD DRAWING

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

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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ANCHORAGE, ALASKA 99503
PHONE: (907) 562-3252
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CONSULTANT

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SEAL

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

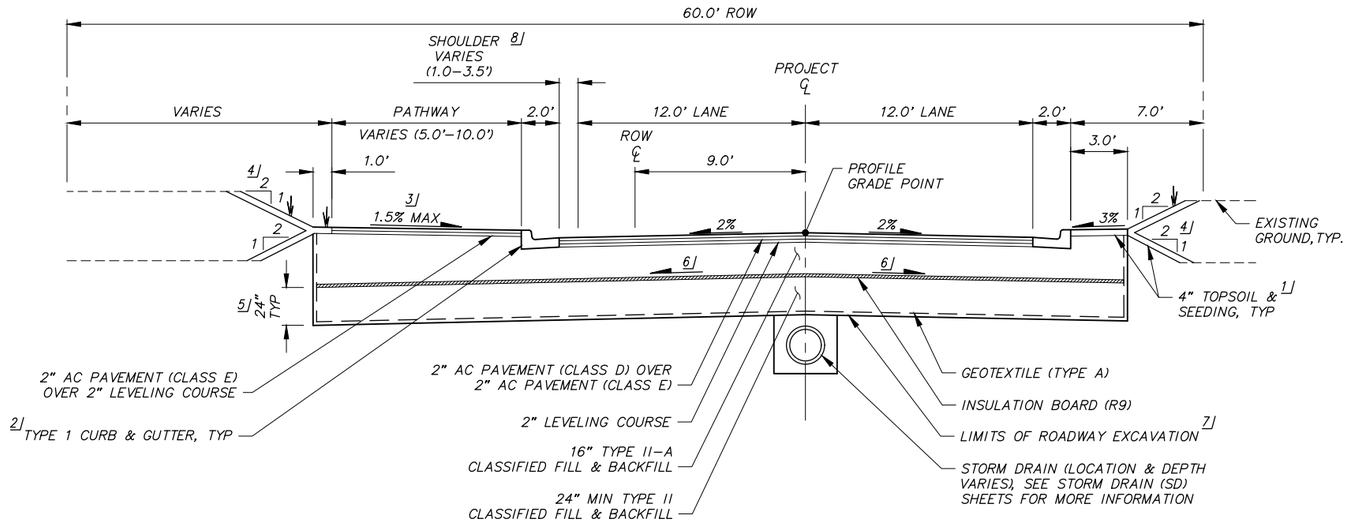
06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

TYPICAL SECTIONS

E. 48TH AVENUE

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET C3 of C5

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Typical Sections.dwg



1 **TYPICAL SECTION "G" - E. 48TH AVENUE**

STA 27+16.72 TO 28+80.07

SHEET NOTES:

1. 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 ⅛" – ¼" ABOVE LIP OF CURB, UNLESS OTHERWISE NOTED. SEE DETAIL 4, SHEET C5.
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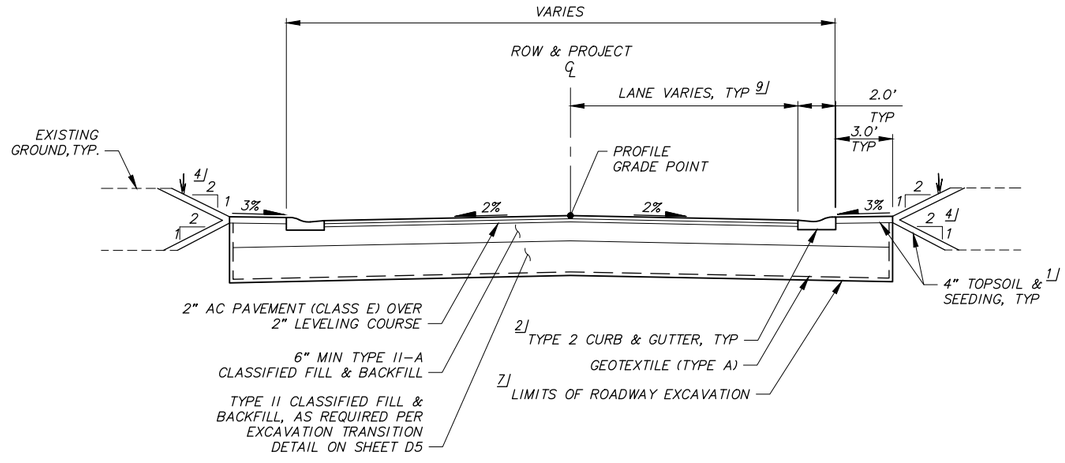
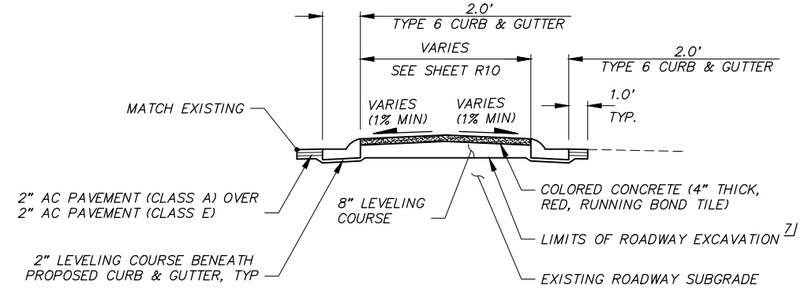
9. SEE ROADWAY (R) SHEETS FOR SIDE STREET LANE WIDTHS.



2 **TYPICAL SECTION "H" - SIDE STREETS (BEYOND CURB RETURN)**



3 **TYPICAL SECTION "I" RAISED MEDIAN**

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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

STATE OF ALASKA 49 TH
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

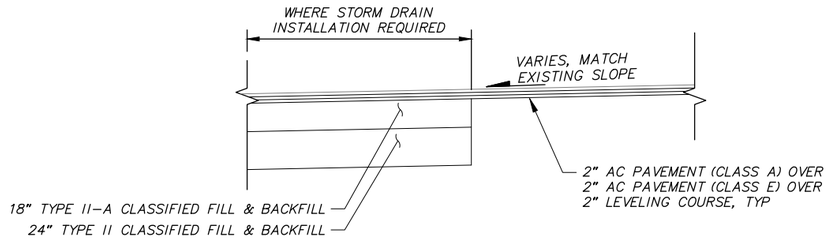
06–26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

TYPICAL SECTIONS

E. 48TH AVENUE, SIDESTREETS & MEDIAN

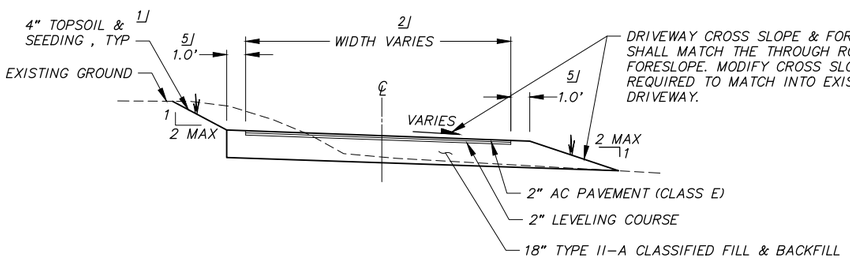
SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET C4 of C5

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Typical Sections.dwg

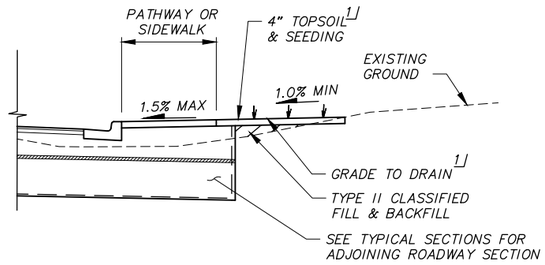


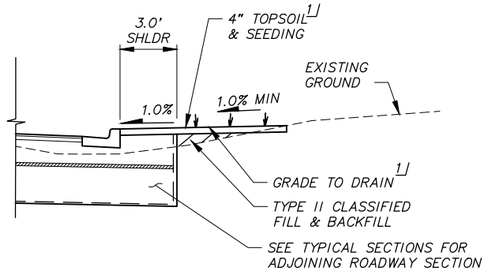
1 TYPICAL SECTION "J" OLD SEWARD HIGHWAY

STA 28+80.07 TO STA 29+17.77

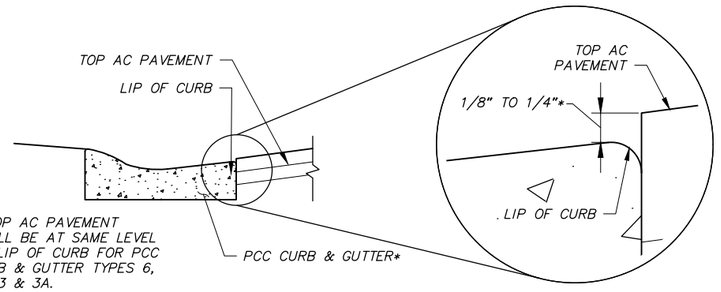


2 TYPICAL SECTION "K" DRIVEWAY PAVED 2/ 3/





3 SPECIAL FILL GRADING DETAILS



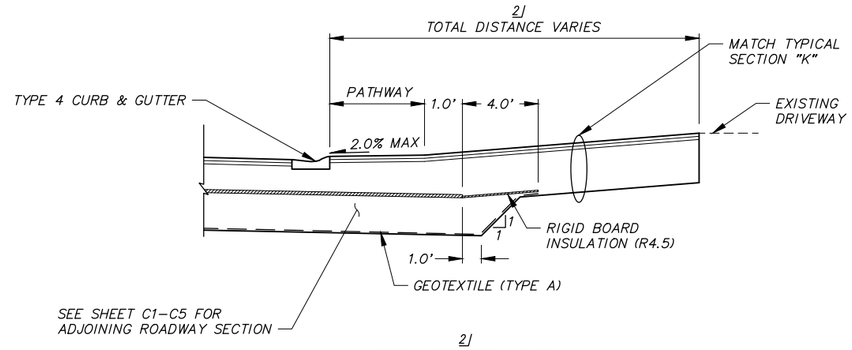
4 CURB AND GUTTER & AC PAVEMENT EDGE DETAIL

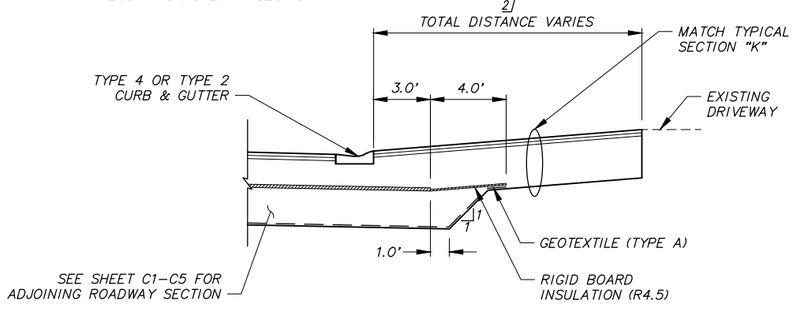
SHEET NOTES:

1. SEE SHEETS C1-C4 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 5, THIS SHEET.
4. FOR DRIVEWAYS WITH CURB RETURNS, EXTEND R9 INSULATION AND BEGIN TRANSITION TO TYPICAL SECTION "K" 1 FOOT BEYOND BACK OF SIDEWALK EXTENDED.
5. 1.0' SHOULDER NOT REQUIRED WHEN DRIVEWAY IS ADJACENT TO PAVED SURFACES.





5 TYPICAL DRIVEWAY CONNECTION SECTION 4/

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

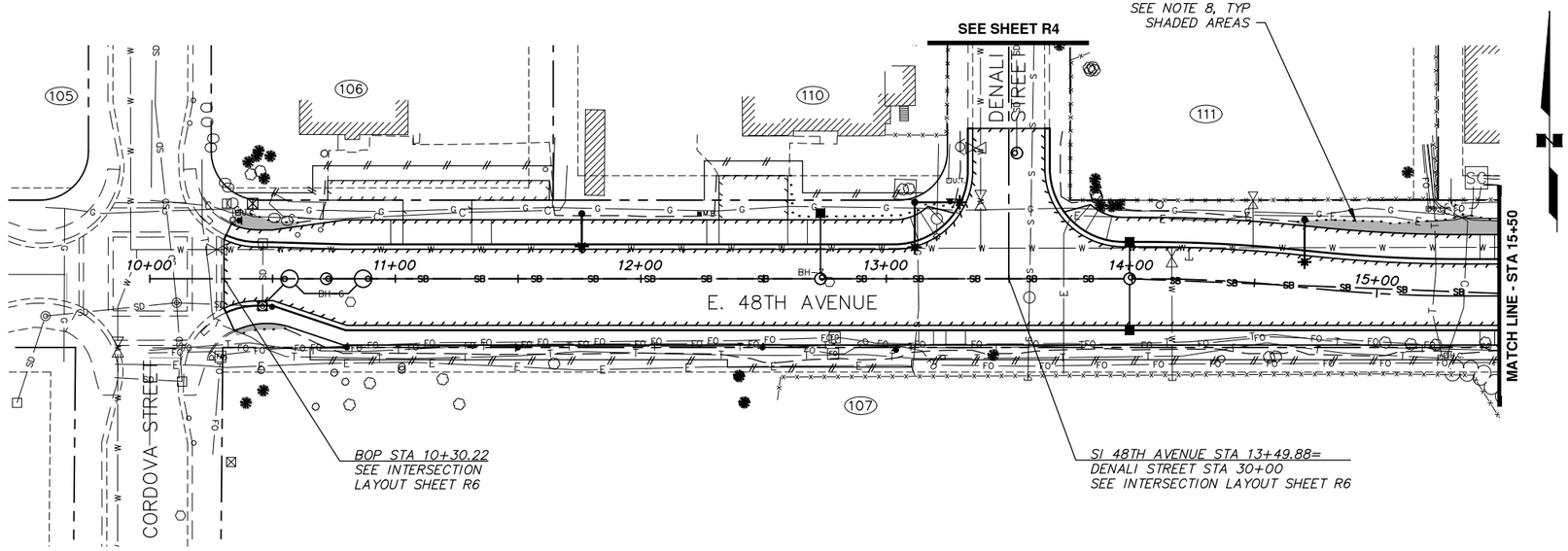
06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

TYPICAL SECTIONS

DRIVEWAYS & MISC DETAILS

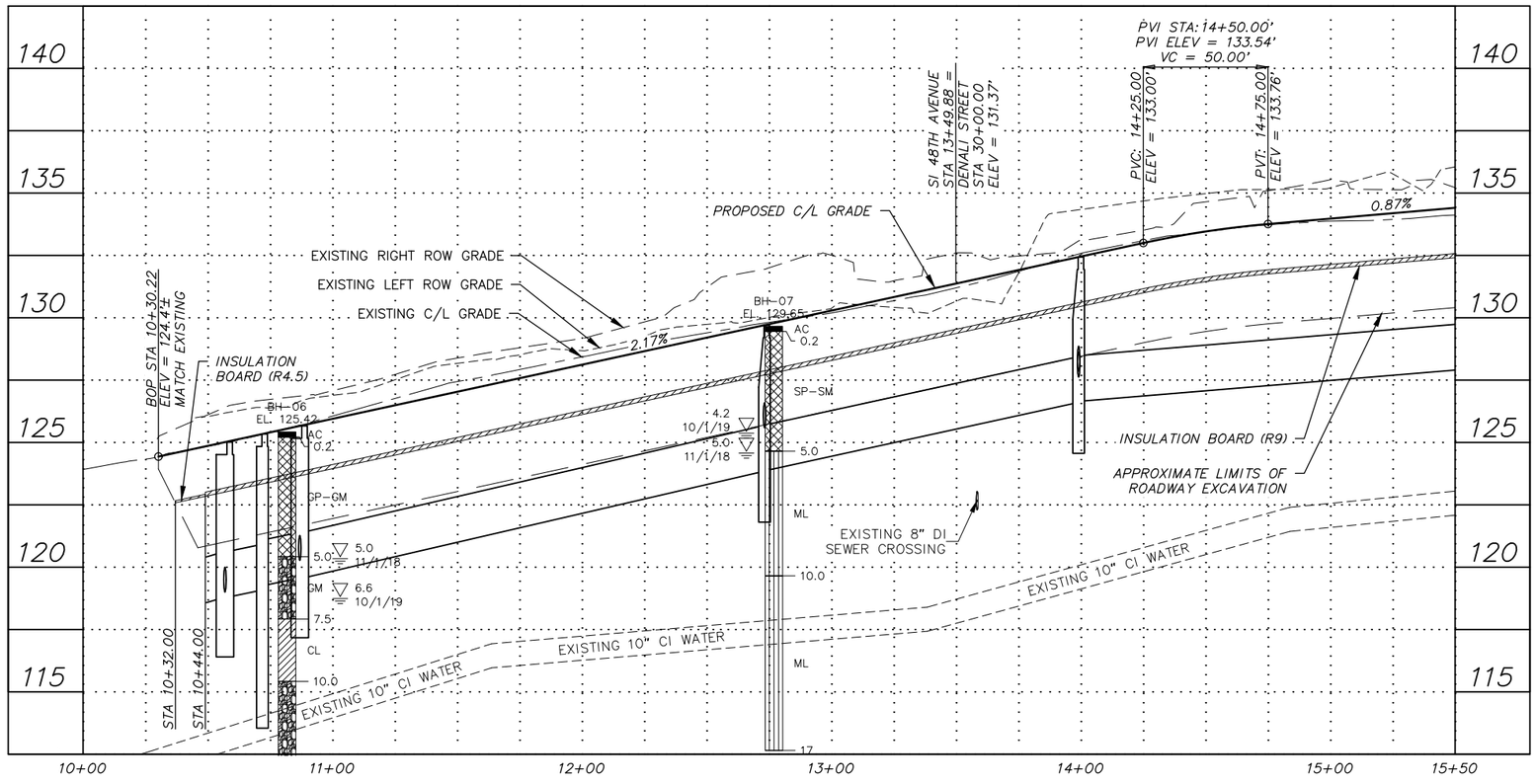
SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET C5 of C5

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Typical Sections.dwg



NOTES:

1. SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
4. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
5. SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
6. SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION.
7. THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN FOR CLARITY.
8. GRADE AREA TO DRAIN TOWARDS ROADWAY PER DETAIL 3, SHEET C5. 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.



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

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

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

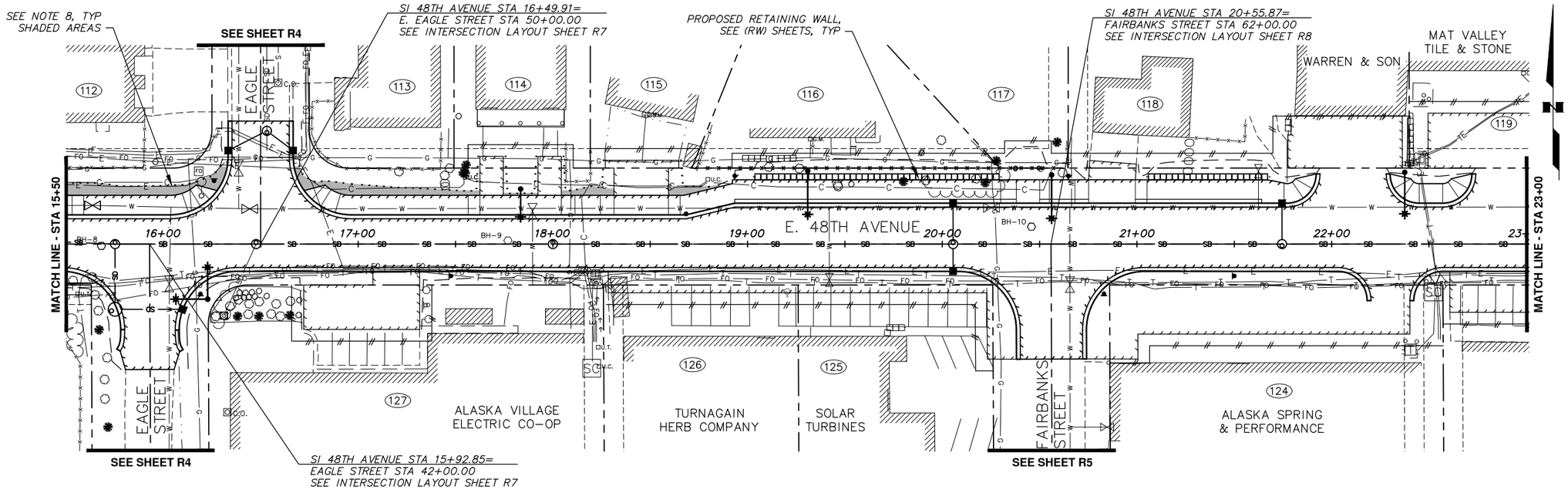
06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY PLAN & PROFILE

E. 48TH AVENUE
BOP TO STA 15+50

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R1 of R12

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Plan And Profile.dwg



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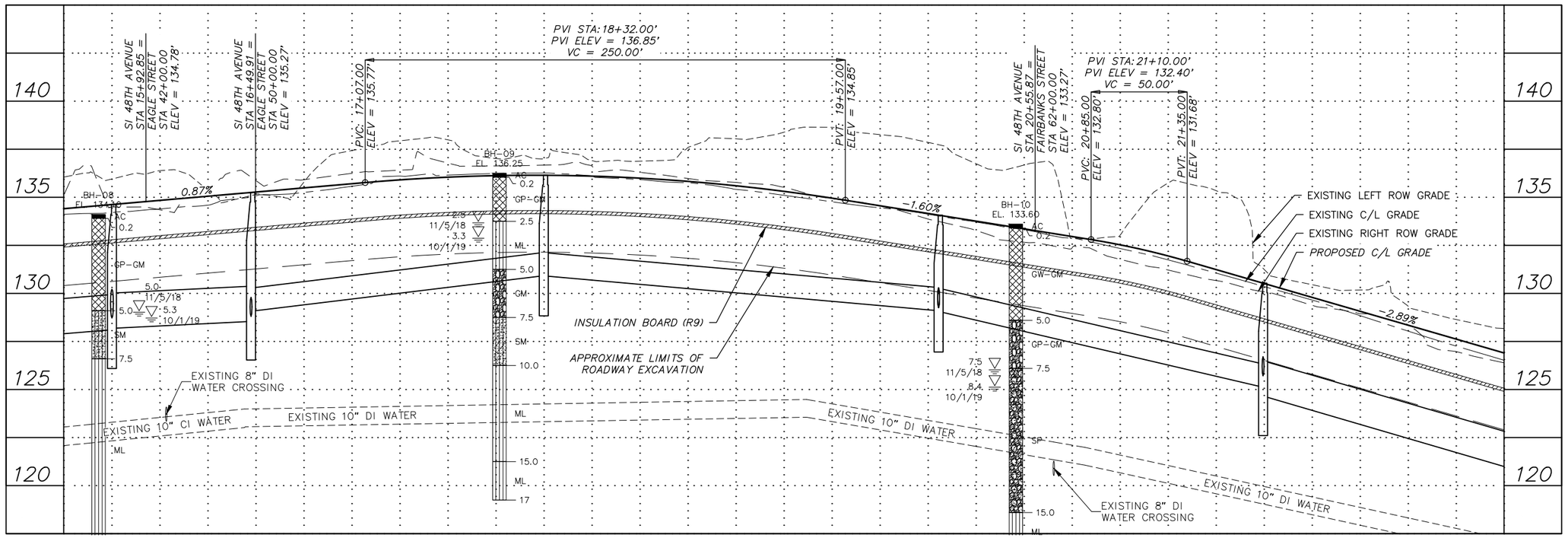

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   COMPANY: _____ DATE: _____
   BY: _____

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

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

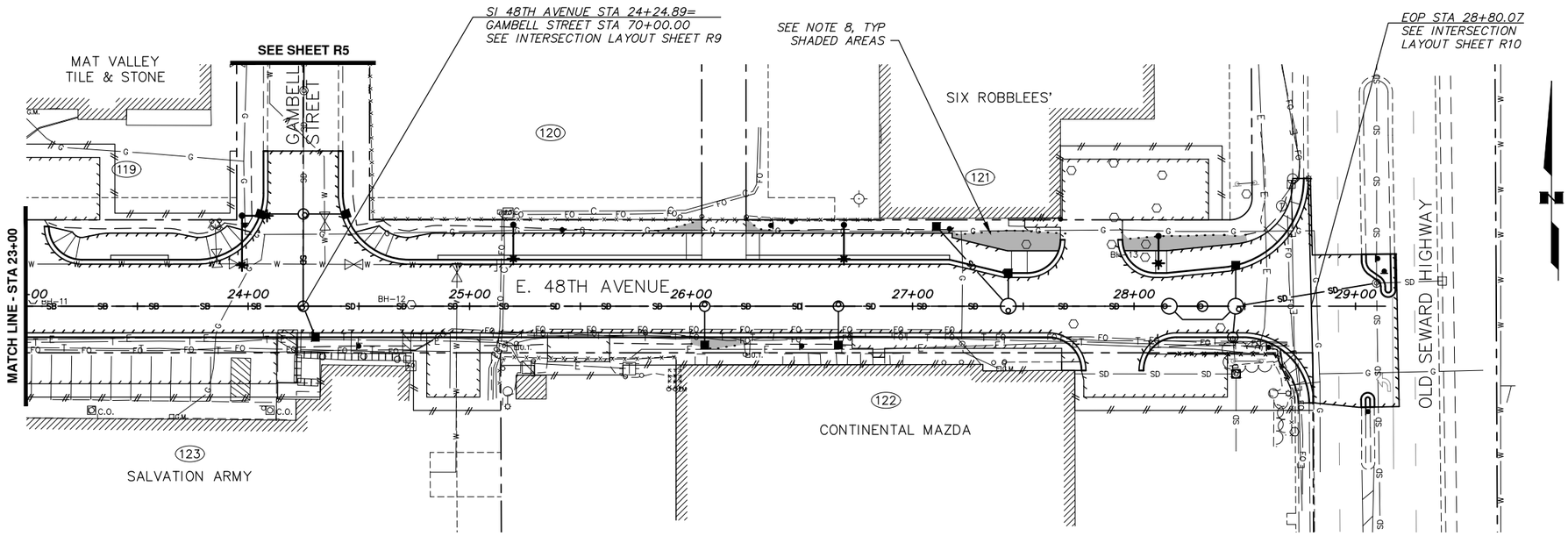
06-26 SCHED A
48TH AVENUE UPGRADES
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY PLAN & PROFILE

E. 48TH AVENUE
STA 15+50 TO STA 23+00

SCALE HOR. 1"=30' VER. 1"=3'
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET R2 of R12

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Plan And Profile.dwg



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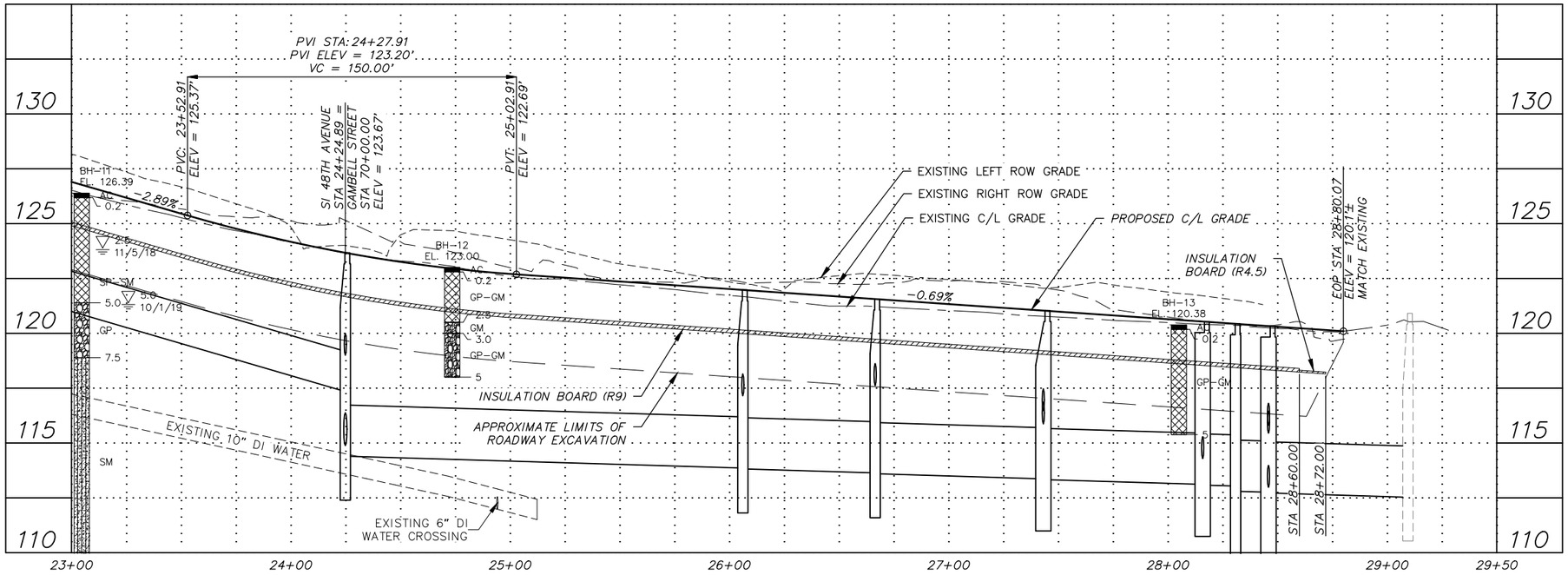

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PLAN CHECK

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BASE	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

GRAPHIC SCALE 60 30 0 30 60

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CRW ENGINEERING GROUP, LLC
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

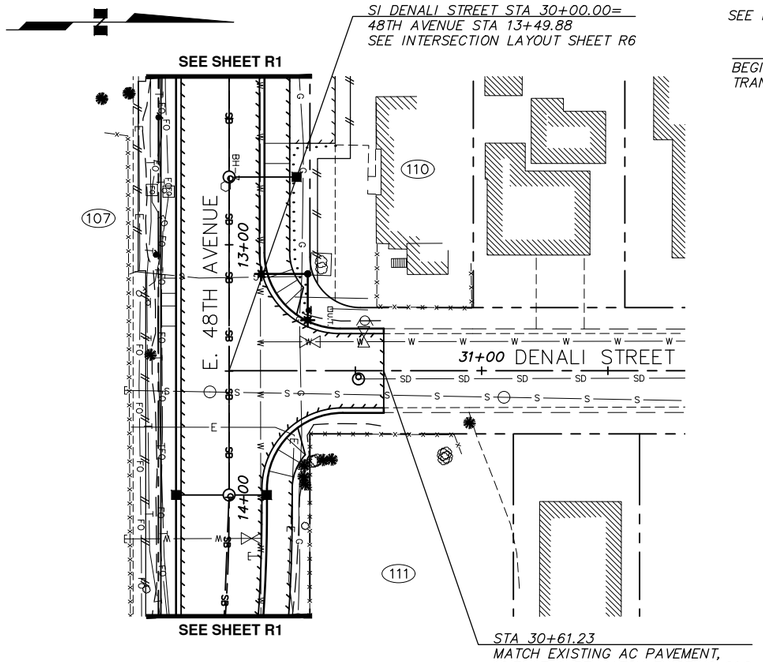
06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

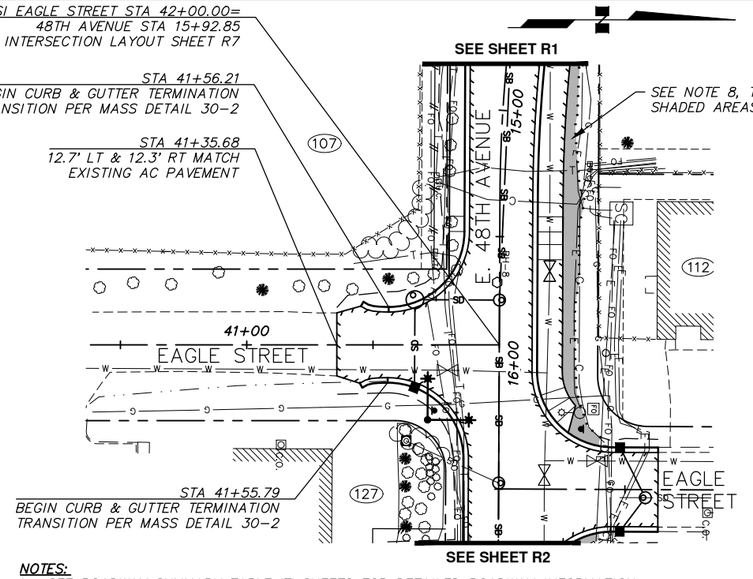
ROADWAY PLAN & PROFILE

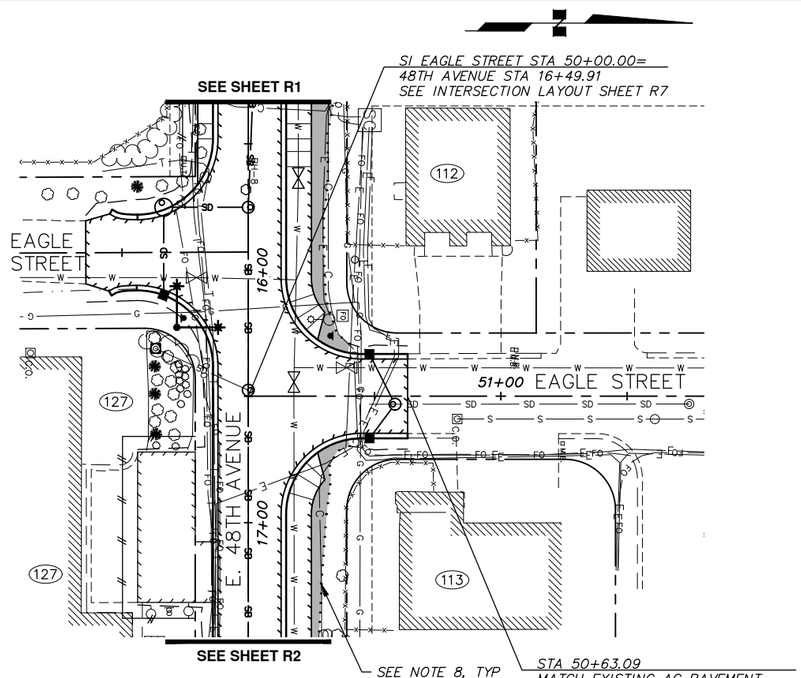
E. 48TH AVENUE
STA 23+00 TO EOP

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R3 of R12

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Plan And Profile.dwg







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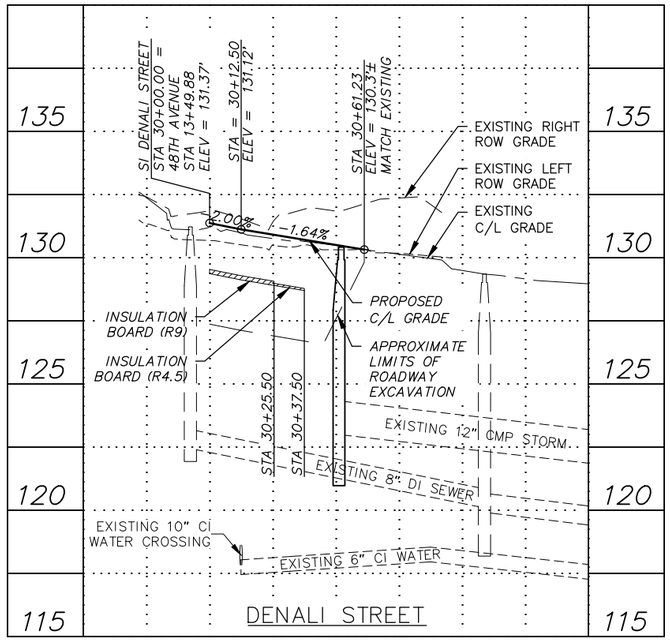

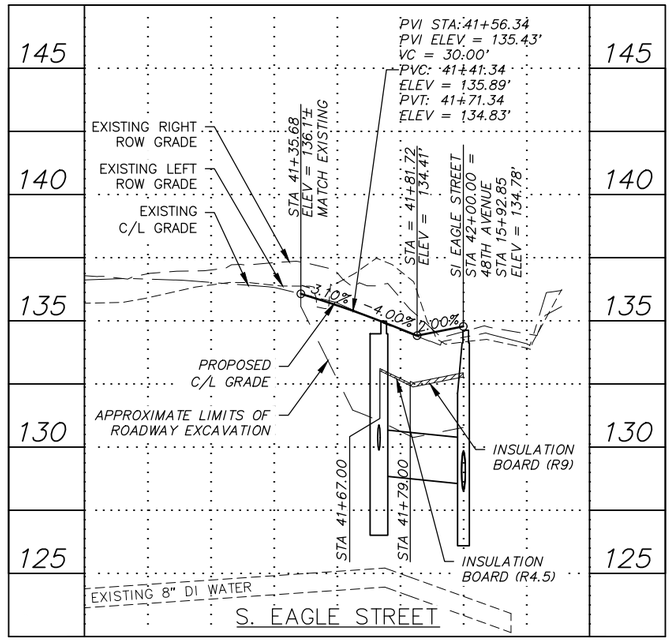

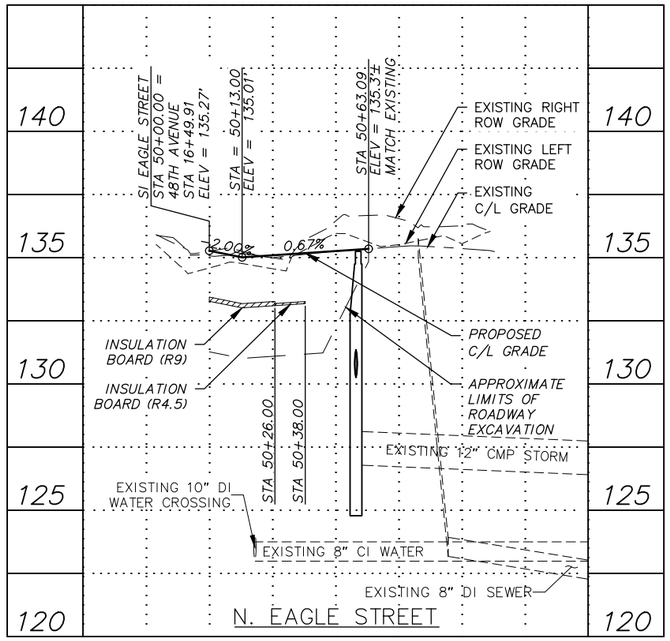

RECORD DRAWING

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

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY PLAN & PROFILE

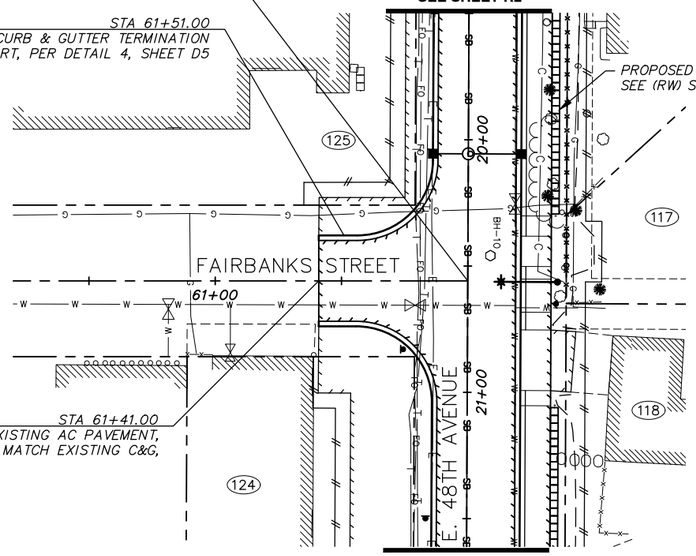
DENALI STREET, S. EAGLE STREET, N. EAGLE STREET

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R4 of R12

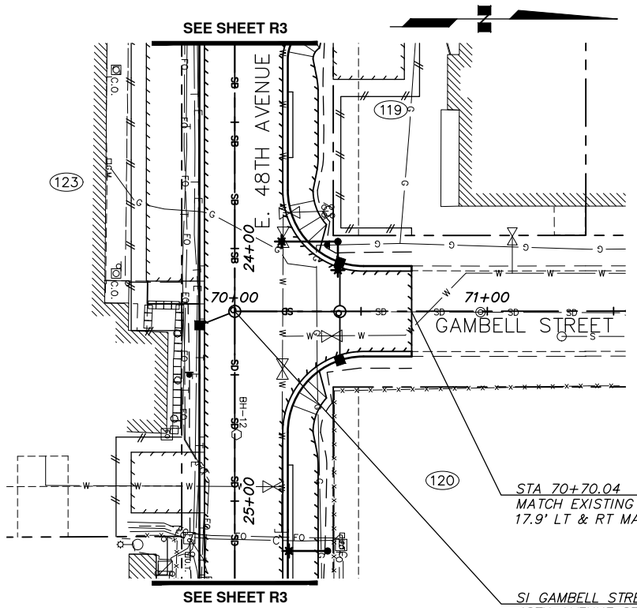
File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Plan And Profile - Sidestreets.dwg

SI FAIRBANKS STREET STA 62+00.00=
48TH AVENUE STA 20+55.87
SEE INTERSECTION LAYOUT SHEET R8

STA 61+51.00
BEGIN CURB & GUTTER TERMINATION
TRANSITION LT & RT, PER DETAIL 4, SHEET D5

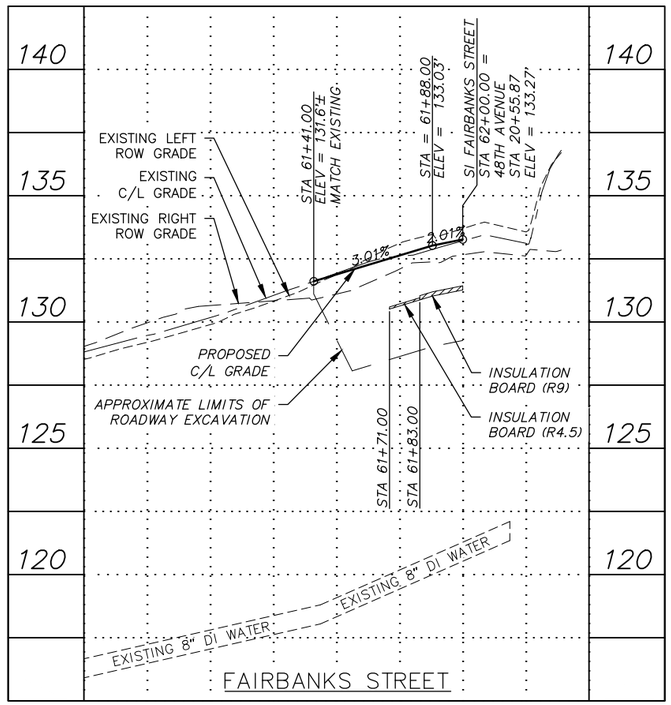


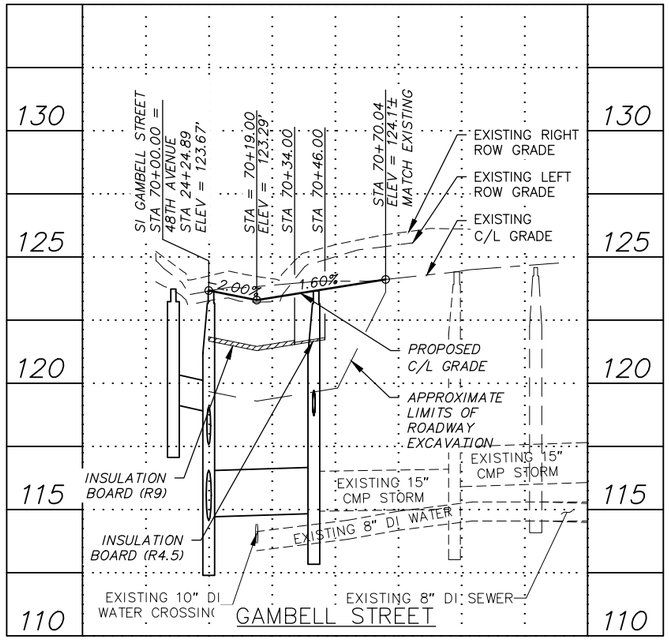
STA 61+41.00
MATCH EXISTING AC PAVEMENT,
18.0' LT & RT MATCH EXISTING C&G,



STA 70+70.04
MATCH EXISTING AC PAVEMENT,
17.9' LT & RT MATCH EXISTING C&G,

SI GAMBELL STREET STA 70+00.00=
48TH AVENUE STA 24+24.89
SEE INTERSECTION LAYOUT SHEET R9





NOTES:

1. SEE ROADWAY SUMMARY TABLE (T) SHEETS FOR DETAILED ROADWAY INFORMATION.
2. SEE DETAIL (D) SHEETS FOR ROADWAY DETAILS.
3. FOR DETAILED SOILS INFORMATION, SEE THE SPECIFICATIONS.
4. SEE STORM DRAIN (SD) SHEETS FOR LOCATIONS AND ELEVATIONS OF STORM DRAIN PIPES & STRUCTURES.
5. SEE SURVEY CONTROL (V) SHEETS FOR PROJECT CENTERLINE ALIGNMENT DATA.
6. SEE ILLUMINATION (I) SHEETS FOR ROADWAY LIGHTING INFORMATION.
7. THE DEMOLITION ITEMS REMOVED AS SHOWN ON THE DEMOLITION (B) SHEETS ARE NOT SHOWN 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.
   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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

GRAPHIC 60 30 0 30 60 SCALE

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

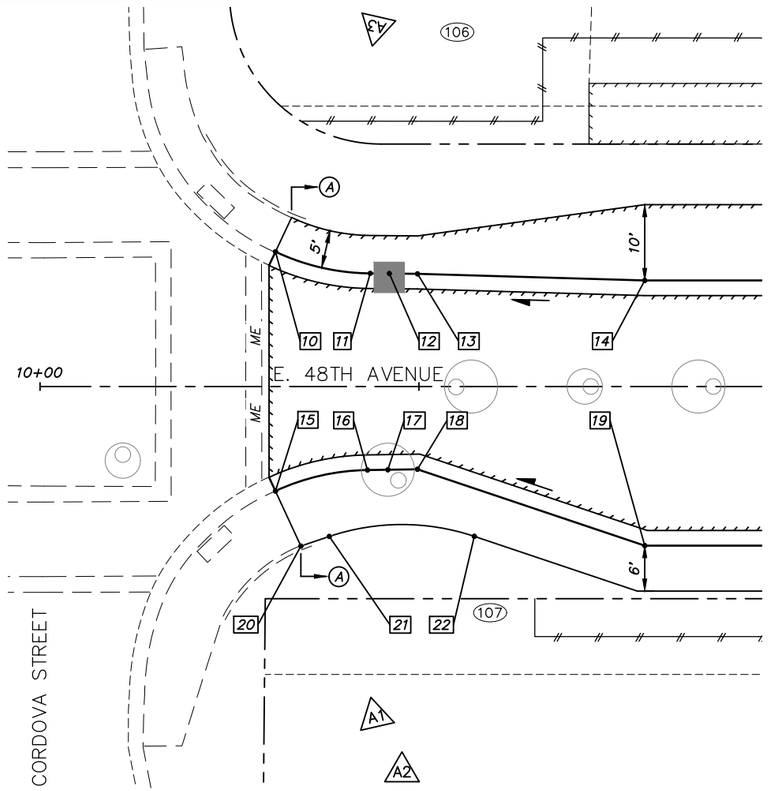
06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY PLAN & PROFILE

FAIRBANKS STREET & GAMBELL STREET

SCALE HOR. 1"=30'
VER. 1"=3'
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET R5 of R12

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Plan And Profile – Sidestreets.dwg

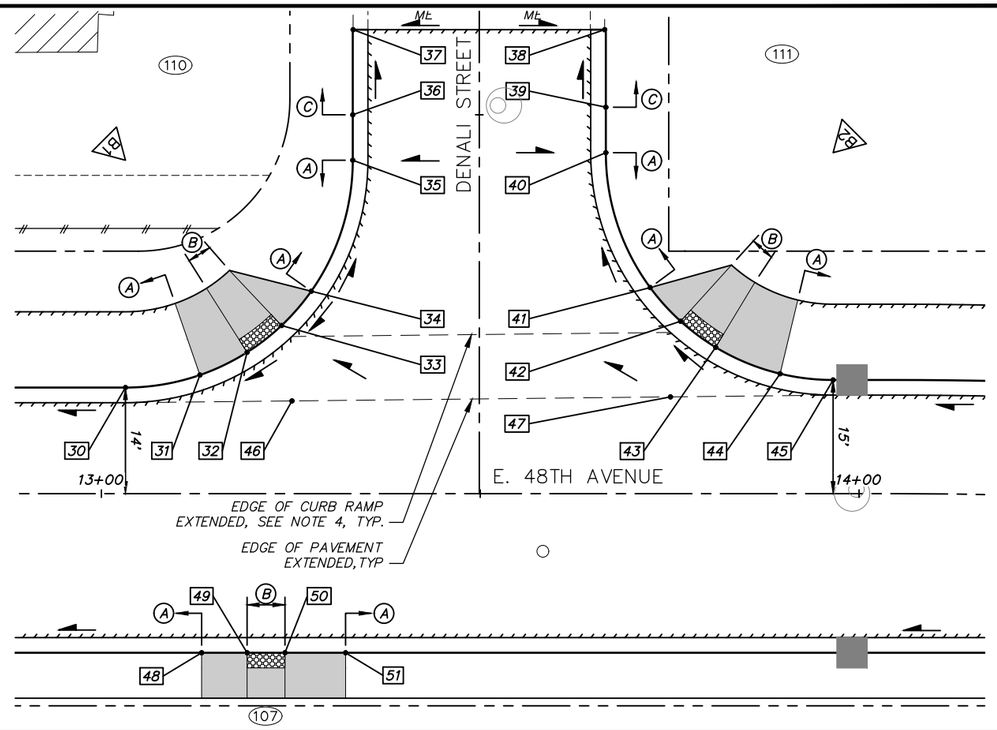


△ CURB & SIDEWALK RADIUS TABLE				
POINT	TBC RADIUS POINT		RADIUS (FT)	DESCRIPTION
	STATION	OFFSET (FT)		
A1			30.0	CORDOVA STREET
A2			30.0	CORDOVA STREET BOS
A3			30.0	CORDOVA STREET
B1			30.0	DENALI STREET
B2			30.0	DENALI STREET

TO BE COMPLETED FOR 95%

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.



☐ POINT SUMMARY – E. 48TH AVENUE AT CORDOVA STREET

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

TO BE COMPLETED FOR 95%

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

LEGEND

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

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB

☐ POINT SUMMARY – E. 48TH AVENUE AT DENALI STREET

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 (%)	
30									
31									
32									
33									
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
50									
51									

TO BE COMPLETED FOR 95%

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

RECORD DRAWING

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

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

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

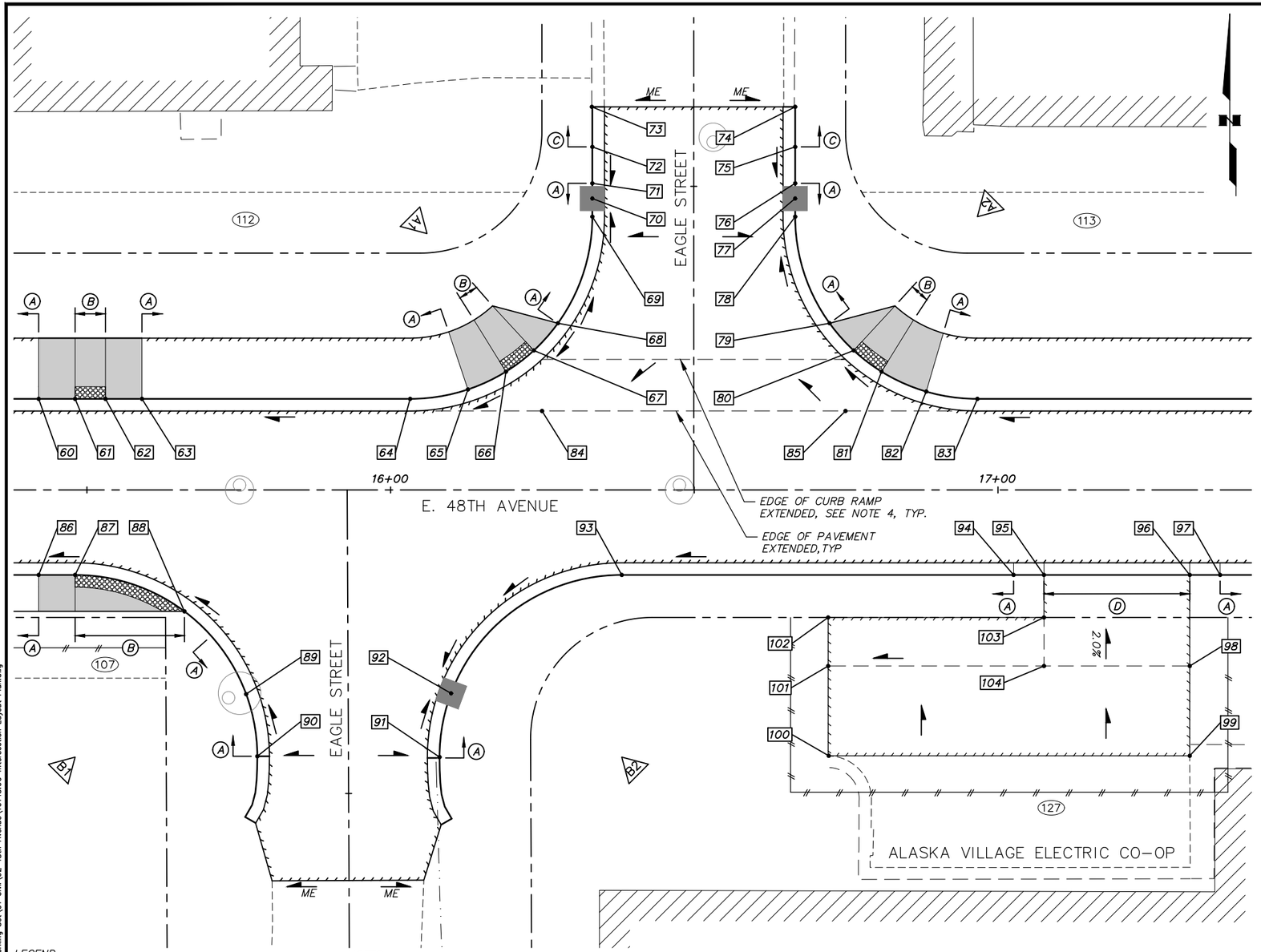
06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

INTERSECTION LAYOUT PLAN

CORDOVA STREET & DENALI STREET

SCALE HOR. 1"=10'
VER. N/A
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET R6 of R12

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Intersection Layout Plan.dwg



POINT SUMMARY – E. 48TH AVENUE AT EAGLE STREET

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									
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89									
90									
91									
92									
93									
94									
95									
96									
97									
98									
99									
100									
101									
102									
103									
104									

TO BE COMPLETED FOR 95%

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

LEGEND

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

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			30.0	EAGLE STREET NORTH
A2			30.0	EAGLE STREET NORTH
B1			30.0	EAGLE STREET SOUTH
B2			30.0	EAGLE STREET SOUTH

TO BE COMPLETED FOR 95%

DESIGNATION	CURB TYPE
A	TYPE 1 CURB
B	TYPE 1A CURB
C	TYPE 2 CURB
D	TYPE 4 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: _____
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   COMPANY: _____ DATE: _____
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   DATA TRANSFER CHECKED BY: _____ TITLE: _____
   COMPANY: _____ DATE: _____
   BY: _____

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

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

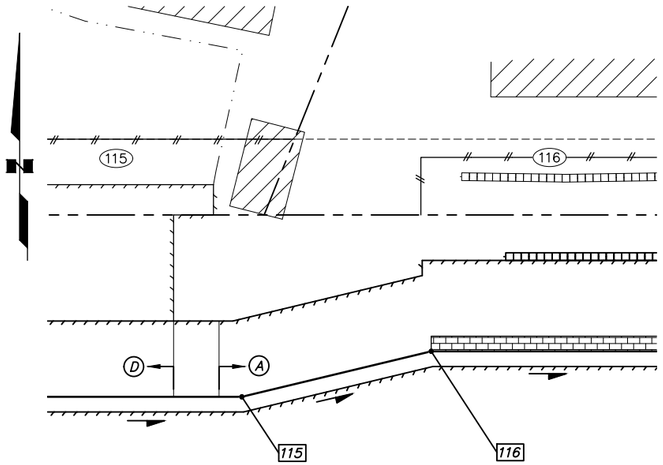
06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

INTERSECTION LAYOUT PLAN

EAGLE STREET

SCALE HOR. 1"=10' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R7 of R12

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Intersection Layout Plan.dwg



E. 48TH AVENUE 19+00

TURNAGAIN HERB COMPANY

126

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. PROVIDE CONSTANT FLOWLINE BETWEEN CHANGE IN CURB TYPE.
5. SEE DETAIL (D) SHEETS FOR CURB RAMP DETAILS.
6. LIP OF CURB IS FRONT OF CURB AND GUTTER AT EDGE OF PAVEMENT.

LEGEND

APPROXIMATE DIRECTION OF DRAINAGE FLOWS

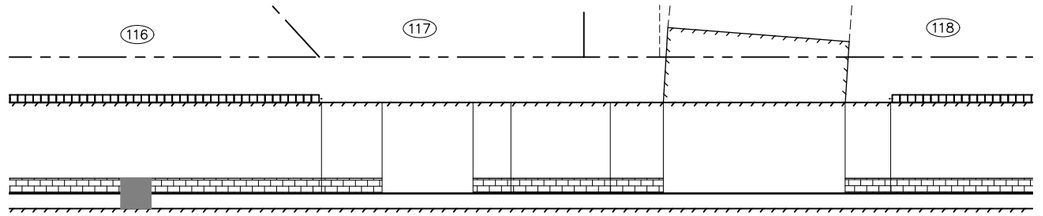
COLORED CONCRETE (RED, 4" THICK, IMPRINTED)

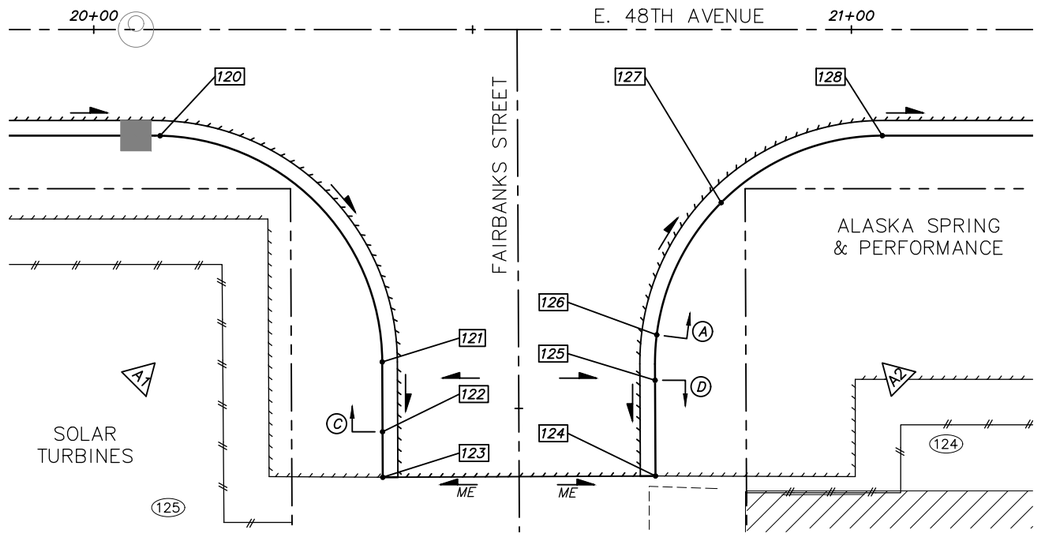
DESIGNATION	CURB TYPE
A	TYPE 1 CURB
B	TYPE 1A CURB
C	TYPE 2 CURB
D	TYPE 4 CURB

△ CURB RADIUS TABLE

POINT	TBC RADIUS POINT STATION	TBC RADIUS POINT OFFSET (FT)	RADIUS (FT)	DESCRIPTION
A1			30.0	FAIRBANKS STREET
A2			30.0	FAIRBANKS STREET

TO BE COMPLETED FOR 95%





☐ POINT SUMMARY – NECKDOWN

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TO NEXT POINT* LENGTH (FT)	TO NEXT POINT* SLOPE (%)	DESCRIPTION
115								
116								

TO BE COMPLETED FOR 95%

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

☐ POINT SUMMARY – E. 48TH AVENUE AT FAIRBANKS STREET

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
120									
121									
122									
123									
124									
125									
126									
127									
128									

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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

GRAPHIC SCALE 20 10 0 10 20

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

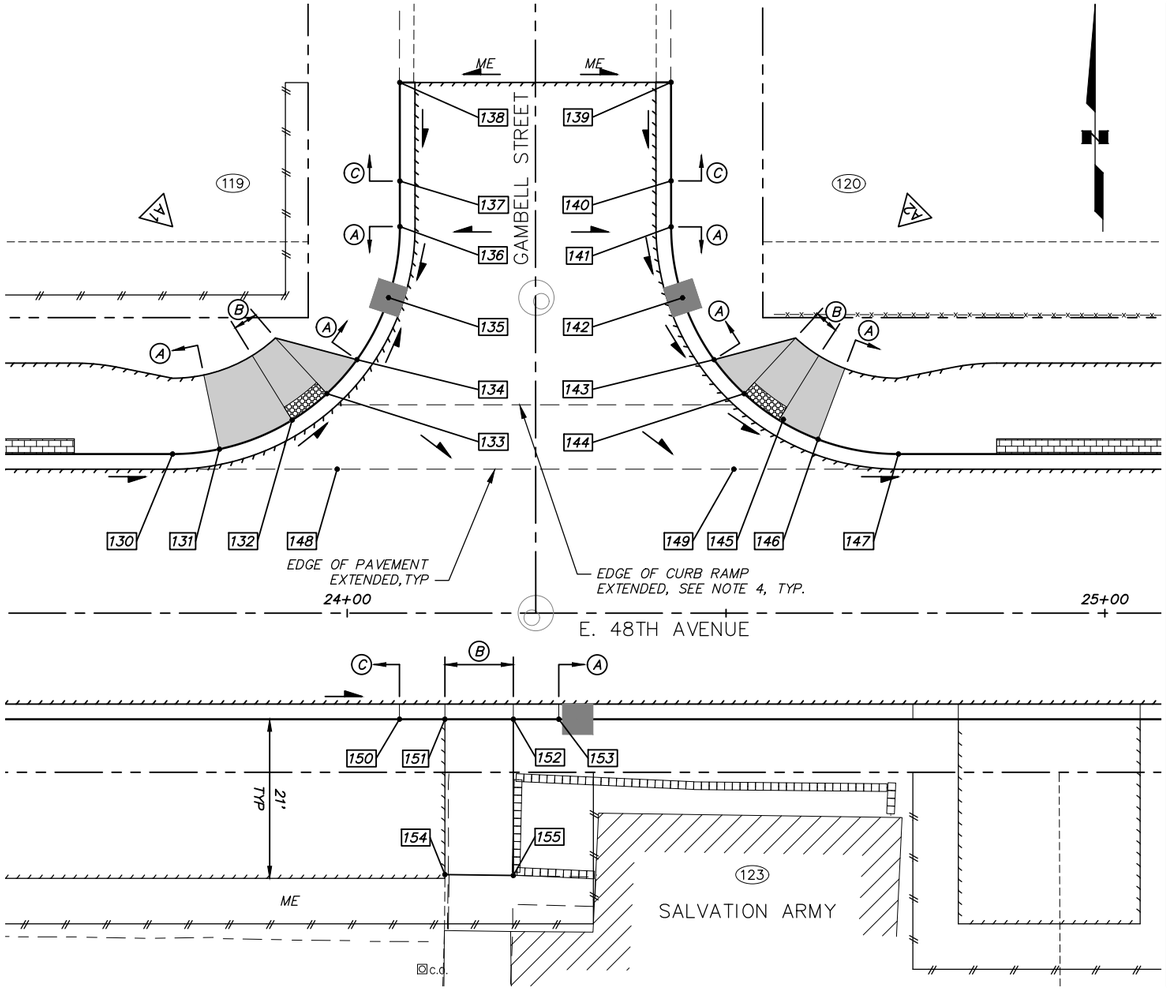
06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

INTERSECTION LAYOUT PLAN

FAIRBANKS STREET

SCALE HOR. 1"=10' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R8 of R12

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Intersection Layout Plan.dwg



☐ POINT SUMMARY – E. 48TH AVENUE AT CORDOVA STREET

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TOP CONCRETE ELEV (FT)	TO NEXT POINT*		DESCRIPTION
								LENGTH (FT)	SLOPE (%)	
120										
121										
122										
123										
124										
125										
126										
127										
128										
129										
130										
131										
132										
133										
134										
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148										
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150										
151										
152										
153										
154										
155										

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			30.0	GAMBELL STREET
A2			30.0	GAMBELL STREET

TO BE COMPLETED FOR 95%

LEGEND

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

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 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.
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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.

RECORD DRAWING

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

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

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

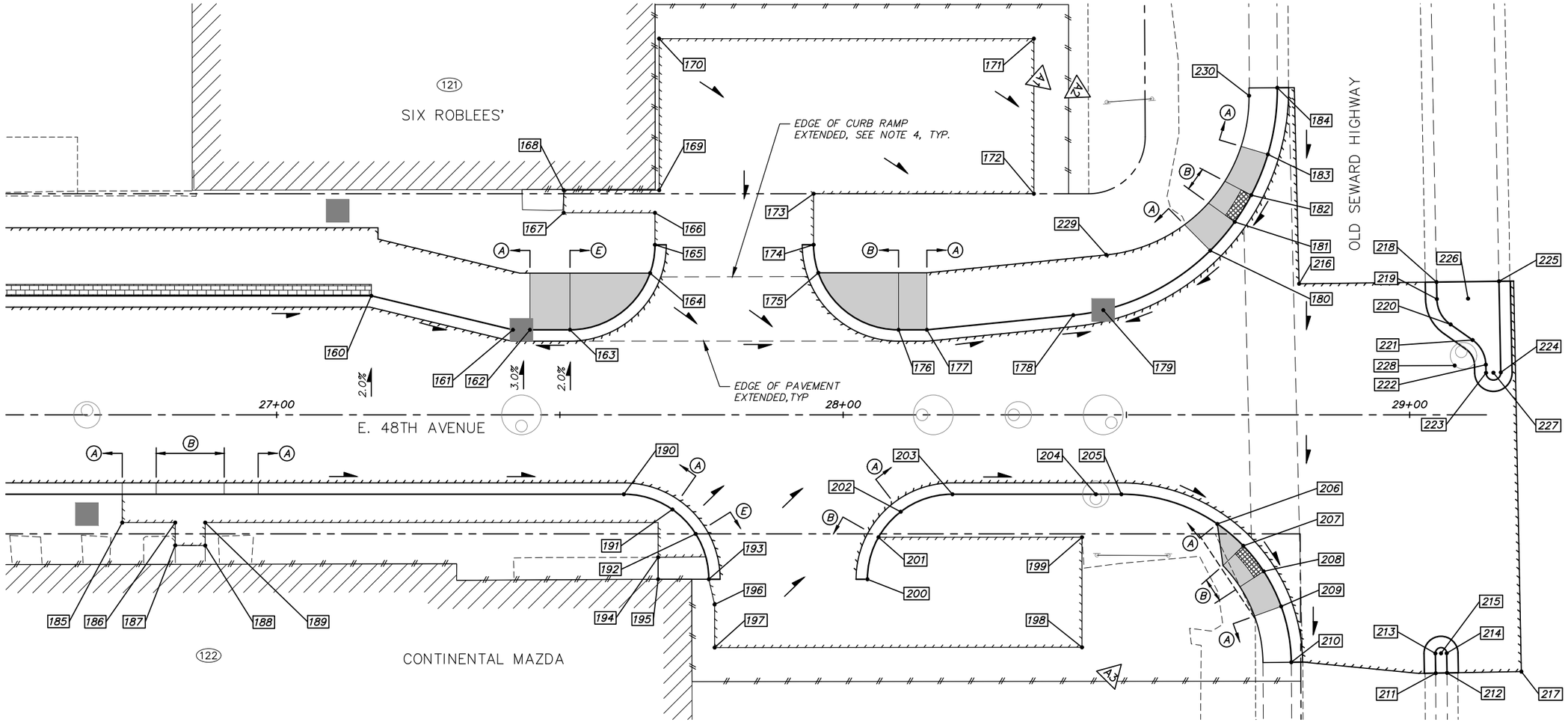
06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

INTERSECTION LAYOUT PLAN

GAMBELL STREET

SCALE HOR. 1"=10' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R9 of R12

File: J:\Jobs\0atc\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Intersection Layout Plan.dwg



LEGEND

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

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

△ CURB & SIDEWALK RADIUS TABLE

POINT	TBC RADIUS POINT		RADIUS (FT)	DESCRIPTION
	STATION	OFFSET (FT)		
A1			40.0	OLD SEWARD HIGHWAY
A2			28.0	OLD SEWARD HIGHWAY BOS
A3			30.0	OLD SEWARD HIGHWAY

TO BE COMPLETED FOR 95%

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 R11 FOR GRADING POINTS.*

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	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

CONSTRUCTION RECORD

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
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06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

INTERSECTION LAYOUT PLAN

OLD SEWARD HIGHWAY

SCALE HOR. 1"=10' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R10 of R12

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Intersection Layout Plan.dwg

☐ POINT SUMMARY – E. 48TH AVENUE AT OLD SEWARD HIGHWAY

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TOP CONCRETE ELEV (FT)	TO NEXT POINT*		DESCRIPTION
								LENGTH (FT)	SLOPE (%)	
160										
161										
162										
163										
164										
165										
166										
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168										
169										
170										
171										
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193										
194										

TO BE COMPLETED FOR 95%

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

☐ POINT SUMMARY – E. 48TH AVENUE AT OLD SEWARD HIGHWAY

POINT	STATION	OFFSET (FT)	TBC ELEV (FT)	CURB TYPE	LIP OF CURB ELEV (FT)	TOP AC ELEV (FT)	TOP CONCRETE ELEV (FT)	TO NEXT POINT*		DESCRIPTION
								LENGTH (FT)	SLOPE (%)	
195										
196										
197										
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229										
230										

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

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

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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Robert W. Burdick
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REGISTERED PROFESSIONAL ENGINEER

SEAL

MUNICIPALITY OF ANCHORAGE

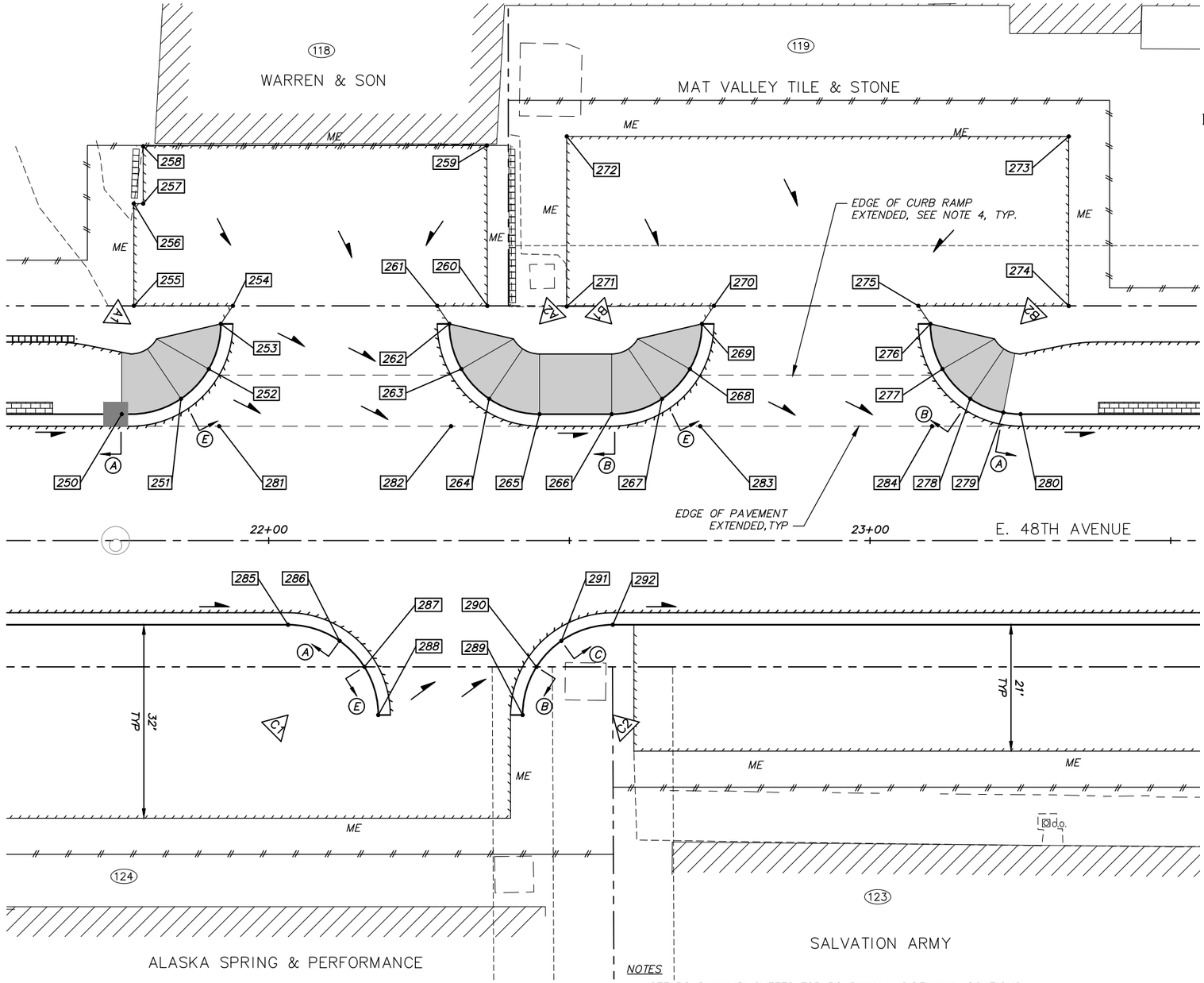
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

INTERSECTION LAYOUT TABLE

SCALE HOR. 1"=10'
VER. N/A
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET R11 of R12

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Intersection Layout Plan.dwg



LEGEND

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

DESIGNATION	CURB TYPE
(A)	TYPE 1 CURB
(B)	TYPE 1A CURB
(C)	TYPE 2 CURB
(E)	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.

☐ POINT SUMMARY – PARCEL 118, 119 & 124

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 (%)	
250									
251									
252									
253									
254									
255									
256									
257									
258									
259									
260									
261									
262									
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285									
286									
287									
288									
289									

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 118
A2			15.0	PARCEL 118
B1			15.0	PARCEL 119
B2			15.0	PARCEL 119
C1			15.0	PARCEL 124
C2			15.0	PARCEL 124

TO BE COMPLETED FOR 95%

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: _____

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

PLAN CHECK

GRAPHIC SCALE 20 10 0 10 20

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	CAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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PHONE: (907) 562-3252
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06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

DRIVEWAY RECONSTRUCTION PLAN

PARCELS 118, 119 & 124

SCALE HOR. 1"=10' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET R12 of R12

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Intersection Layout Plan.dwg

20.28

RECONSTRUCT DRIVEWAY

SHEET	PARCEL	CENTER REFERENCE LOCATION		DRIVEWAY WIDTH AT CURB OR EDGE OF PAVEMENT (FT)	DRIVEWAY WIDTH AT ROW (FT)	CURB CUT TYPE	CURB RETURN RADII (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	106	11+17	LT	28	92	4	N/A	−90	10.0	2.0%	26.0	6.1%	7.8%	ASPHALT	5.0	8.0	DETAIL 1, SHEET D3	
R1	110	12+46	LT	28	28	4	N/A	−90	10.0	2.0%	28.0	1.9%	4.6%	ASPHALT	5.0	8.0	DETAIL 1, SHEET D3	
R2	127	17+20	RT	24	60	4	N/A	90	15.0	2.0%	29.8	1.8%	5.6%	ASPHALT	6.0	6.0	DETAIL 3, SHEET D3	SEE INTERECTION LAYOUT SHEET R7
R2	114 WEST	17+69	LT	42 (SHARED CURB CUT)	12	4	N/A	−90	10.0	2.0%	30.0	3.9%	6.5%	ASPHALT	6.0	–	DETAIL 1, SHEET D3	
R2	114 EAST	17+98	LT		12	4	N/A	−90	10.0	2.0%	30.0	4.6%	6.8%	ASPHALT	–	7.0	DETAIL 1, SHEET D3	
R2	115	18+45	LT	28	38	4	N/A	−90	10.0	2.0%	28.0	5.9%	6.6%	ASPHALT	7.0	6.0	DETAIL 1, SHEET D3	
R2	126	18+77	RT	98	97	2	N/A	90	N/A	N/A	11.0	3.5%	3.4%	ASPHALT	6.0	–	DETAIL 3, SHEET D3	
R2	125	19+68	RT	97	97	2	N/A	90	N/A	N/A	11.0	1.0%	1.0%	ASPHALT	–	6.0	DETAIL 3, SHEET D3	
R2	118 WEST	20+87	LT	24	24	4	N/A	−90	12.0	2.0%	21.0	3.0%	3.8%	ASPHALT	7.0	6.0	DETAIL 2, SHEET D3	
R2	118 EAST	22+11	LT	34	59	N/A	15	−90	8.5	1.2%	46.7	7.0%	6.4%	ASPHALT	N/A	N/A	DETAIL 2, SHEET D4	SEE DRIVEWAY RECONSTRUCTION PLAN R12
R2	124	22+30	RT	20	20	N/A	15	90	20.0	2.0%	33.0	6.1%	9.4%	ASPHALT	N/A	N/A	DETAIL 3, SHEET D4	SEE DRIVEWAY RECONSTRUCTION PLAN R12
R2	119	22+91	LT	34	34	84	15	−90	8.5	1.2%	49.0	12.9%	6.3%	ASPHALT	N/A	N/A	DETAIL 2, SHEET D4	SEE DRIVEWAY RECONSTRUCTION PLAN R12
R2	123 WEST	23+33	RT	152	152	2	N/A	90	N/A	N/A	21.0	2.2%	2.4%	ASPHALT	6.0	6.0	DETAIL 3, SHEET D3	
R3	123 EAST	24+93	RT	24	24	4	N/A	90	10.0	2.0%	27.0	3.0%	4.5%	ASPHALT	6.0	6.0	DETAIL 3, SHEET D3	
R3	122 WEST	25+49	RT	28	28	4	N/A	90	11.0	1.8%	11.0	0.9%	1.8%	ASPHALT	6.0	6.0	DETAIL 3, SHEET D3	
R3	ALLEY	26+15	LT	20	20	4	N/A	−90	12.0	2.0%	18.0	1.3%	6.3%	ASPHALT	7.0	6.0	DETAIL 2, SHEET D3	
R3	121	27+81	LT	24	24	N/A	15	−90	10.0	2.0%	53.0	12.6%	6.7%	ASPHALT	7.0	5.0	DETAIL 2, SHEET D4	SEE INTERECTION LAYOUT SHEET R10
R3	122 EAST	27+90	RT	24	24	N/A	15	90	20.0	2.0%	29.0	2.5%	2.0%	ASPHALT	N/A	N/A	DETAIL 3, SHEET D4	SEE INTERECTION LAYOUT SHEET R10

RECONSTRUCT DRIVEWAY NOTES:

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

SECONDARY ACCESS SUMMARY TABLE

SHEET	PARCEL	CENTER REFERENCE LOCATION		WIDTH AT CURB CUT (FT)	L1 (FT)	L2 (FT)	CONSTRUCT PER DETAIL	REMARKS
		STATION	OFFSET					
R2	117	20+44	LT	12	8.0	5.0	DETAIL 1, SHEET D4	

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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   CONTRACTOR: _____
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WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET T1 of T3

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Summary Tables.dwg

30.02

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

SHEET	STATION TO STATION	OFFSET	LENGTH (FT)	REMARKS
R1	BOP TO 15+50	LT	554	INCLUDES SIDE STREETS & DRIVEWAYS
R1	BOP TO 15+50	RT	489	INCLUDES SIDE STREETS & DRIVEWAYS
R2	15+50 TO 23+00	LT	722	INCLUDES SIDE STREETS & DRIVEWAYS
R2	15+50 TO 23+00	RT	796	INCLUDES SIDE STREETS & DRIVEWAYS
R3	23+00 TO EOP	LT	612	INCLUDES MEDIAN, SIDE STREETS & DRIVEWAYS
R3	23+00 TO EOP	RT	595	INCLUDES MEDIAN, SIDE STREETS & DRIVEWAYS

PCC CURB & GUTTER (ALL TYPES) NOTES:

1. *SEE INTERSECTION LAYOUT SHEETS AND DRIVEWAY RECONSTRUCTION SHEETS R6–R12 FOR LOCATIONS AND TYPES OF CURB AND GUTTER.*
2. *SEE 20.28 RECONSTRUCT DRIVEWAY TABLE FOR LOCATIONS OF DRIVEWAY CURB CUTS AND CURB RETURNS.*

30.02

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

SHEET	BEGIN STATION	OFFSET (FT)	END STATION	OFFSET (FT)	LENGTH (FT)	REMARKS
R1	10+49.8	10.9 RT	10+79.8	21.0 RT	32	NECKDOWN
R2	18+68.4	15.0 LT	18+93.4	21.0 LT	26	NECKDOWN
R3	27+16.7	21.0 LT	27+41.7	15.0 LT	26	NECKDOWN
R3	28+14.8	15.0 LT	28+41.2	17.7 LT	27	TURN LANE

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

1. *SEE DETAIL 2, SHEET D5 FOR STEEL CURB FACING DETAIL.*

30.03

P.C.C. SIDEWALK (4" THICK, STANDARD FINISH)

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	REMARKS
R1	10+31.1	13.8 RT	15+42.1	14.0 RT	344	
R3	24+12.9	14.0 RT	24+21.9	14.0 RT	21	PARCEL 123 SIDEWALK
R3	27+67.3	25.1 RT	27+75.8	25.1 RT	4	PARCEL 122 SIDEWALK

30.04

P.C.C. CURB RAMP (ALL TYPES) & DETECTABLE WARNINGS

SHEET	APPX STATION	OFFSET (FT)	CURB RAMP AREA (SY)	DETECTABLE WARNING AREA (SF)	CURB RAMP TYPE	REMARKS
R1	13+22	20.3 LT	15	11	PARALLEL	DENALI STREET
R1	13+22	21.0 RT	13	10	PARALLEL	DENALI STREET
R1	13+79	20.9 LT	17	11	PARALLEL	DENALI STREET
R2	15+51	15.0 LT	19	10	PARALLEL	EAGLE STREET SOUTH
R2	15+58	15.5 RT	12	35	UNIDIRECTIONAL	EAGLE STREET SOUTH
R2	16+21	21.1 LT	15	11	PARALLEL	EAGLE STREET NORTH
R2	16+78	21.1 LT	16	11	PARALLEL	EAGLE STREET NORTH
R2	21+88	25.4 LT	18		PARALLEL	PARCEL 118
R2	22+51	21.0 LT	46		AT GRADE	PARECL 118/119
R3	23+14	25.4 LT	14		PARALLEL	PARCEL 119
R3	23+95	27.1 LT	18	11	PARALLEL	GAMBELL STREET
R3	24+55	27.1 LT	14	11	PARALLEL	GAMBELL STREET
R3	27+62	19.4 LT	19		UNIDIRECTIONAL	PARCEL 121
R3	28+01	17.8 LT	17		UNIDIRECTIONAL	PARCEL 121
R3	28+71	36.8 LT	11	11	PARALLEL	OLD SEWARD HIGHWAY
R3	28+73	25.3 RT	13	11	PARALLEL	OLD SEWARD HIGHWAY

PCC CURB RAMP & DETECTABLE WARNING NOTES:

1. *SEE INTERSECTION LAYOUT SHEETS AND DRIVEWAY RECONSTRUCTION SHEETS R6–R12 FOR LOCATIONS OF CURB RAMPS AND DETECTABLE WARNINGS.*

30.10

COLORED CONCRETE (RED, 4" THICK, IMPRINTED)

SHEET	APPX BEGIN STA	APPX OFFSET (FT)	APPX END STA	APPX OFFSET (FT)	4" THICK, AREA (SY)	REMARKS
R2	18+93.4	21.0 LT	20+38.1	21.0 LT	32	
R2	20+50.1	21.0 LT	20+75.2	21.0 LT	6	
R2	20+99.2	21.0 LT	21+64.1	21.0 LT	14	
R3	23+38.0	21.0 LT	23+64.0	21.0 LT	6	
R3	24+85.7	21.0 LT	26+04.9	21.0 LT	26	
R3	26+24.9	21.0 LT	27+16.7	21.0 LT	20	
R3	29+04.6	45.6 RT	29+06.6	45.5 RT	1	MEDIAN
R3	29+04.8	23.4 LT	29+15.8	23.6 LT	13	MEDIAN

RECORD DRAWING

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PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06–26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY SUMMARY TABLES

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET T2 of T3

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Summary Tables.dwg

50.06

REMOVE AND REPLACE MANHOLE COVER AND FRAME (SSMH–1831–065)

SHEET	STATION	OFFSET (FT)	REMARKS
R1	13+58	7.6 RT	

REMOVE AND REPLACE MANHOLE COVER AND FRAME NOTES:

1. *SEE MASS DETAIL 50–26.*

55.08

ADJUST STORM DRAIN MANHOLE RING

SHEET	STATION	OFFSET (FT)	REMARKS
R1	10+46	11.2 RT	
R3	29+10	10.4 LT	

ADJUST STORM DRAIN MANHOLE CONE OR RING NOTES:

1. *SEE MASS DETAIL 55–18.*

55.12

ADJUST STORM DRAIN MANHOLE CONE OR RING

SHEET	STATION	OFFSET (FT)	REMARKS
R1	10+46	14.4 LT	

60.03 & 60.05

REMOVE AND REPLACE VALVE BOX TOP SECTION OR ADJUST KEY BOX

SHEET	STATION	OFFSET (FT)	KEY BOX	VALVE BOX TOP SECTION	REMARKS
R1	13+38	32.0 LT		X	
R1	14+16	9.0 LT	X		
R2	15+64	19.9 LT		X	
R2	16+03	20.5 RT		X	
R2	16+39	38.9 LT		X	
R2	16+44	18.1 LT		X	
R2	17+90	16.8 LT	X		
R2	19+42	18.3 RT	X		
R2	20+25	18.6 LT		X	
R2	20+66	20.8 RT		X	
R2	21+62	37.5 LT	X		
R3	23+86	21.7 LT		X	
R3	23+96	19.2 LT		X	
R3	24+35	38.4 LT		X	
R3	24+48	18.9 LT		X	
R3	24+94	15.2 LT	X		

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

1. *ADJUST KEY BOX PER MASS DETAIL 60–16 WHERE APPLICABLE.*

70.13

BOLLARD (STEEL)

SHEET	STATION	OFFSET (FT)	REMARKS
R3	26+45.4	38.1 LT	
R3	27+66.9	39.3 LT	

70.18

WOOD CLAD CHAIN LINK FENCE

SHEET	APPX BEGIN STATION	APPX BEGIN OFFSET (FT)	APPX END STATION	APPX END OFFSET (FT)	LENGTH (FT)	REMARKS
RW1	19+05.5	34.2 LT	20+23.8	34.2 LT	118	SEE SHEET RW3
RW1	21+09.1	34.2 LT	21+60.5	34.2 LT	51	SEE SHEET RW3

70.21

FURNISH AND INSTALL FLEXIBLE DELINEATOR

SHEET	STATION	OFFSET (FT)	REMARKS
R1	10+49.8	11.4 RT	
R2	18+68.4	15.5 LT	
R3	27+41.7	15.5 LT	

70.23

ADJUST MONITORING WELL

SHEET	STATION	OFFSET (FT)	REMARKS
R3	27+51.4	27.9 LT	
R3	27+72.7	8.0 RT	
R3	27+71.8	61.3 LT	
R3	27+90.8	64.7 LT	
R3	27+89.9	27.9 LT	
R3	27+91.0	40.1 LT	
R3	28+05.4	27.9 LT	
R3	28+10.2	44.3 LT	
R3	28+12.8	59.2 LT	
R3	28+39.1	9.8 RT	

PATHWAY CENTERLINE ALIGNMENT SUMMARY

STATION	OFFSET (FT)	DESCRIPTION

TO BE COMPLETED FOR 95%

PATHWAY CENTERLINE NOTES:

1. *SEE DETAIL 3, SHEET D6.*

SPECIAL FILL GRADING TABLE

SHEET	APPROX BEGIN STATION	APPROX END STATION	OFFSET	REMARKS
R1	10+33	10+60	LT	
R1	10+34	10+55	RT	
R1	14+65	15+50	LT	
R2	15+50	16+33	LT	
R2	16+67	17+63	LT	
R2	17+75	17+92	LT	
R2	18+04	18+31	LT	
R2	18+59	18+85	LT	
R3	25+85	26+05	LT	
R3	26+00	26+24	RT	
R3	26+25	26+40	LT	
R3	27+18	27+66	LT	
R3	27+96	28+51	LT	

SPECIAL FILL GRADING NOTES:

1. *SPECIAL FILL GRADING SHALL BE PER DETAIL 3, SHEET C5.*
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.*

RECORD DRAWING

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PLAN CHECK

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TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
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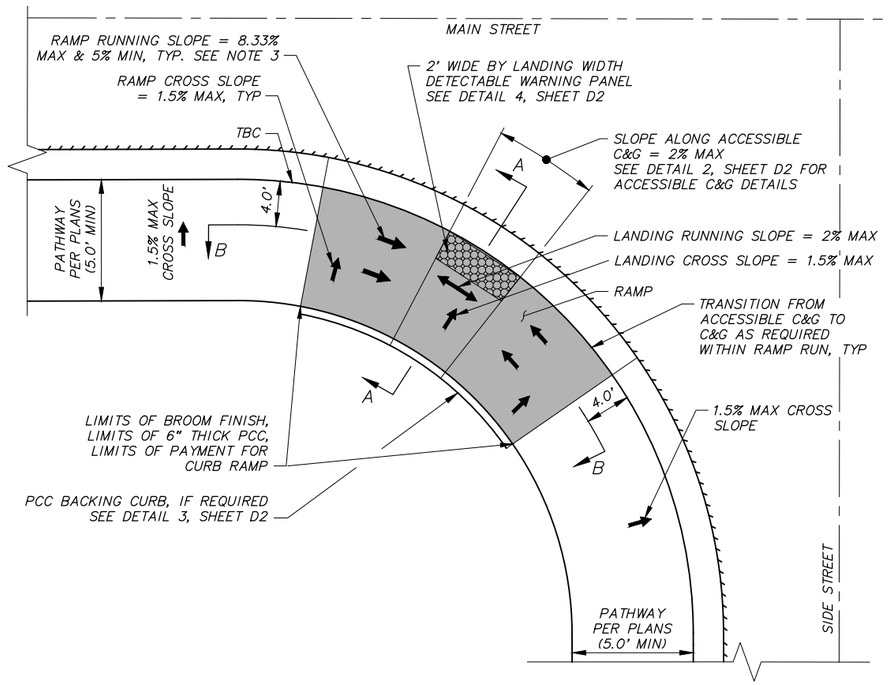
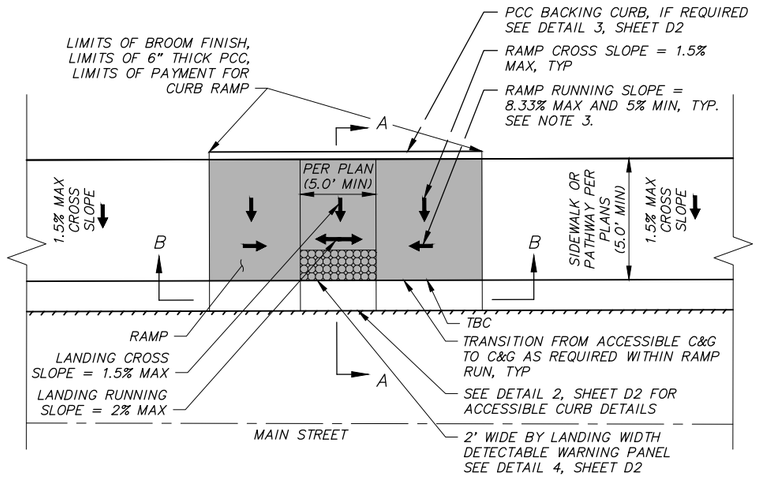


TYPICAL PARALLEL CURB RAMP AT CORNER LOCATION WITH CONNECTING SIDE STREET SIDEWALK - PLAN VIEW

1

SCALE: NTS



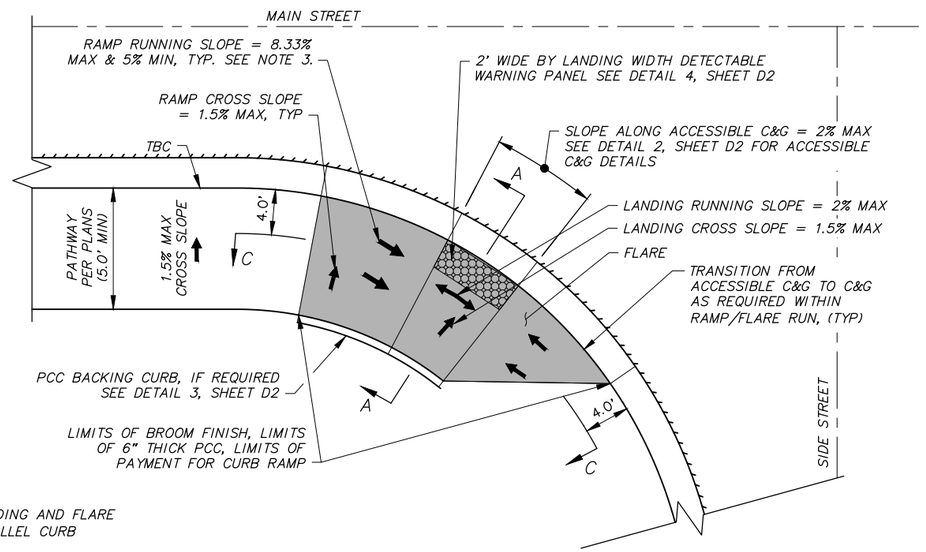
TYPICAL PARALLEL CURB RAMP AT NON-CORNER LOCATION - PLAN VIEW

2

SCALE: NTS

SHEET NOTES:

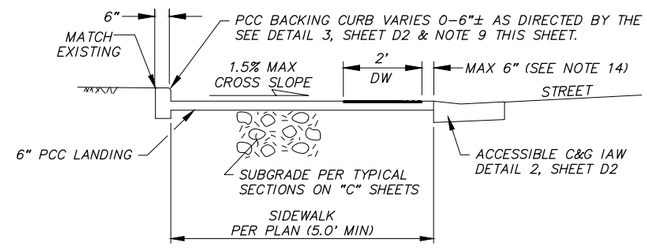
1. SEE SHEETS R6–R12 FOR CURB RAMP TYPES, LOCATIONS, RAMP, LANDING AND FLARE LENGTHS AND ELEVATIONS. RAMP/FLARE/LANDING LENGTH FOR PARALLEL CURB RAMPS SHALL BE AS MEASURED 4' OFF BACK OF CURB.
2. NOTIFY ENGINEER PRIOR TO INSTALLATION OF CONCRETE IF MAXIMUM/MINIMUM SLOPES CANNOT BE MAINTAINED.
3. FOR 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 (ALL TYPES)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. IF EXISTING GROUND BEHIND SIDEWALK IS GRAVEL OR GRASS, GRADE TO MATCH EXISTING GROUND. PAYMENT FOR GRADING SHALL BE MADE UNDER THE BID ITEM "P.C.C. CURB RAMP (6" THICK)" AND NO ADDITIONAL PAYMENT SHALL BE MADE. 4" TOPSOIL AND SEEDING SHALL BE PLACED ON DISTURBED GRASS AREAS PER THE LANDSCAPING PLANS.
10. CONSTRUCT RAMPS AND LANDINGS WITH A BROOM FINISH RUNNING PERPENDICULAR TO THE DIRECTION OF TRAVEL.
11. INSTALL YELLOW ADA APPROVED DETECTABLE WARNINGS (DW) PANELS UNLESS OTHERWISE NOTED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THESE DRAWINGS. SET DETECTABLE WARNINGS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. THERE SHALL BE NO LIP AT THE EDGE OF THE DETECTABLE CURB WARNINGS. SEE DETAIL 4, SHEET D2.
12. DETECTABLE WARNINGS DOMES AT PARALLEL CURB RAMPS SHALL BE ALIGNED ON A SQUARE GRID IN THE PREDOMINATE DIRECTION OF TRAVEL TO PERMIT WHEELS TO ROLL BETWEEN DOMES.
13. RAMP LOCATIONS MAY BE ADJUSTED TO ENSURE MINIMUM 48" CLEARANCE AROUND APPURTENANCES SUCH AS SIGNAL POLES, POWER POLES, LIGHT POLES, J–BOXES, SIGNS, CATCH BASINS AND MANHOLES. PRIOR TO PLACEMENT OF CONCRETE AND APPURTENANCES, THE RAMP LAYOUT AND LOCATION SHALL BE APPROVED BY THE ENGINEER.
14. GAP BETWEEN DETECTABLE WARNING PANELS AND BACK OF CURB ONLY ALLOWABLE AT CENTER OF CURB RAMPS. CORNERS OF DETECTABLE WARNINGS SHALL BE FLUSH WITH BACK OF CURB. IF REQUIRED BY THE ENGINEER CONTRACTOR SHALL CUT DETECTABLE WARNING PANELS PER THE MANUFACTURER'S RECOMMENDATIONS. CUTTING DW PANELS SHALL BE INCIDENTAL TO 30.04 DETECTABLE WARNINGS PAY ITEM AND NO SEPARATE PAYMENT SHALL BE MADE.



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

3

SCALE: NTS



TYPICAL CURB RAMP SECTIONS

4

SCALE: NTS

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BASE	MS	BW
TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
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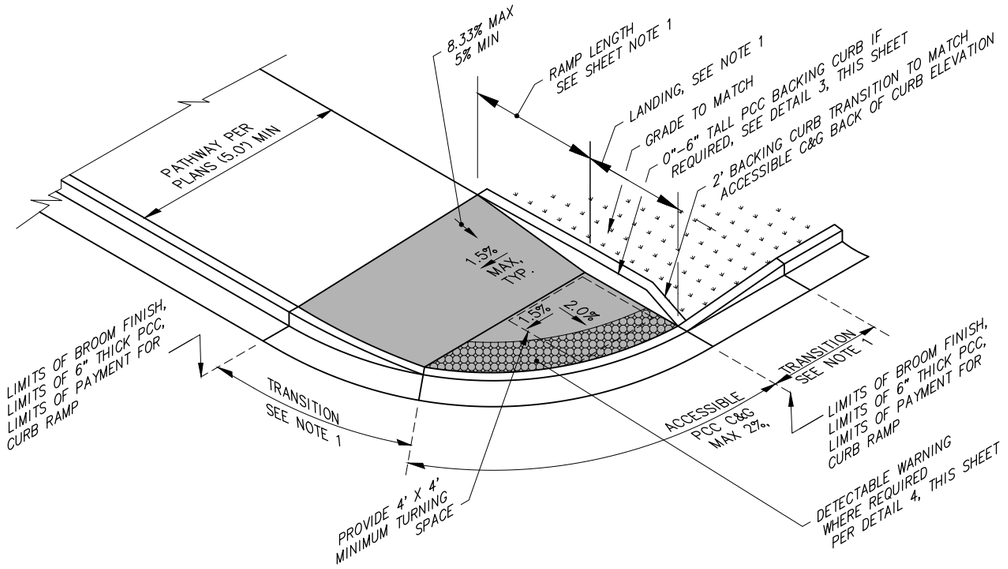
06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

ROADWAY DETAILS

CURB RAMPS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET D1 of D7

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Details.dwg

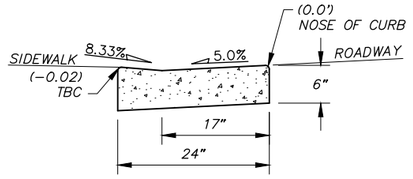


UNIDIRECTIONAL CURB RAMP NOTES:

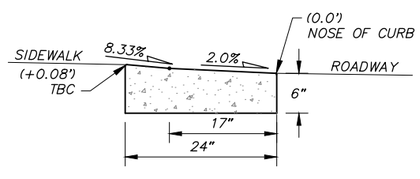
1. SEE SHEET NOTES ON SHEET D1.

1 UNIDIRECTIONAL CURB RAMP

SCALE: NTS



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



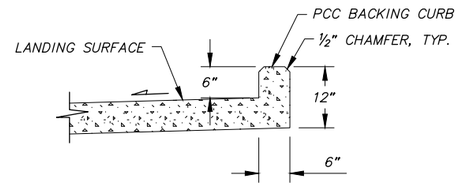
PCC CURB AND GUTTER TYPE 3A
FOR USE IN CURB RAMPS WITH TYPE 3 C&G.

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



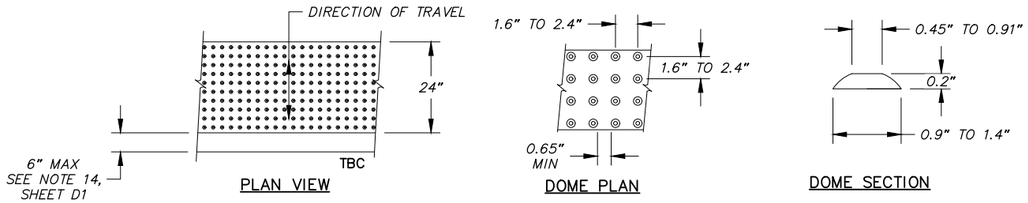
MONOLITHIC

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



4 DETECTABLE WARNING PANEL

SCALE: NTS

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TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
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PLAN CHECK

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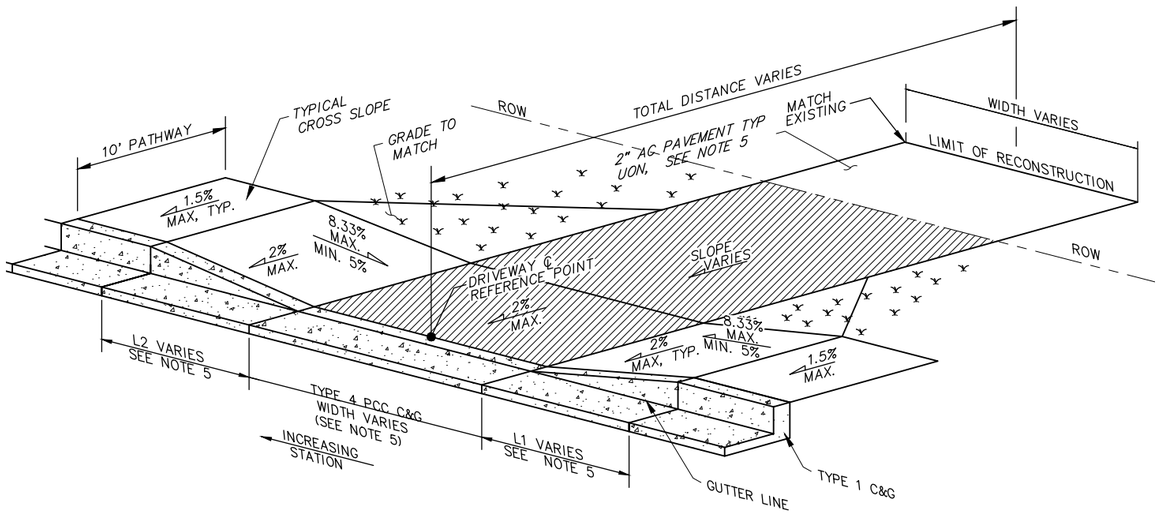
06-26 — 48TH AVENUE UPGRADES — SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY DETAILS

CURB RAMPS

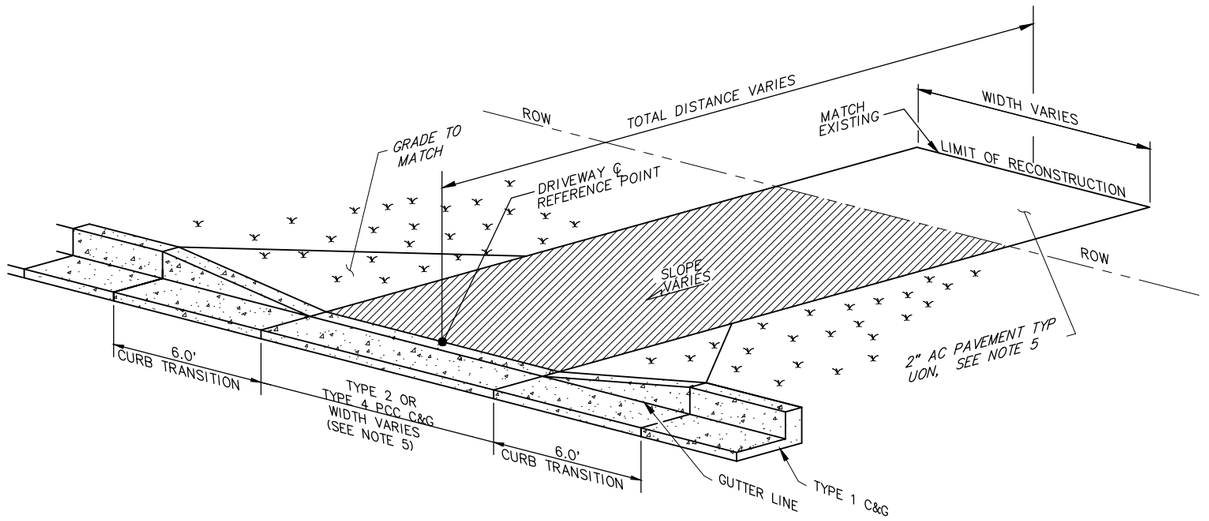
SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET D2 of D7

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Details.dwg



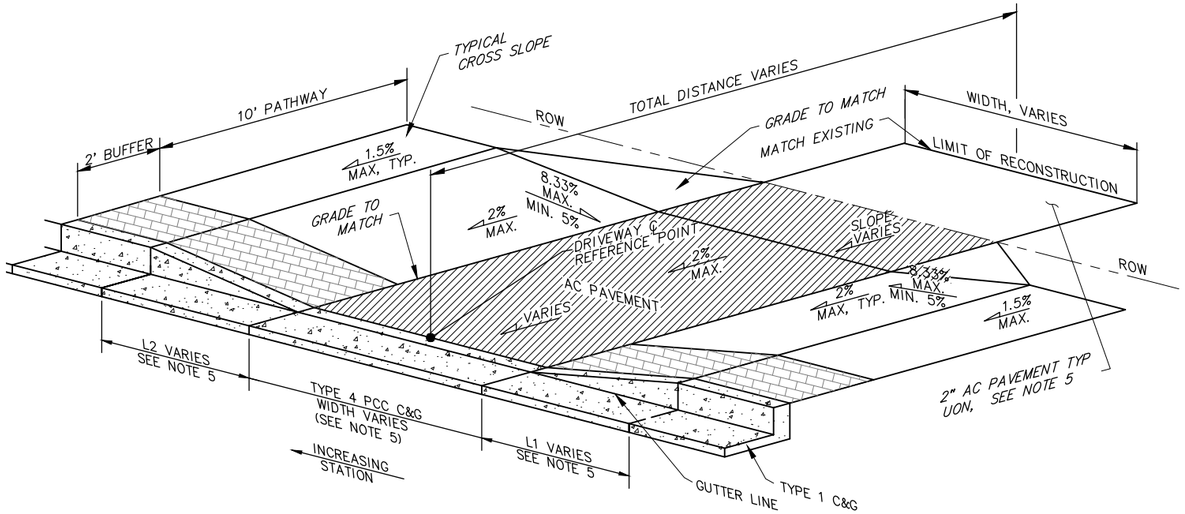
1 **TYPICAL DRIVEWAY CURB-CUT WITH ATTACHED PATHWAY**

SCALE: NTS



3 **TYPICAL DRIVEWAY CURB-CUT WITHOUT PATHWAY**

SCALE: NTS



2 **TYPICAL DRIVEWAY CURB-CUT WITH ATTACHED PATHWAY & BUFFER**

SCALE: NTS

SHEET LEGEND:

LIMITS OF 2" AC PAVING (CLASS E) FOR DRIVEWAY

LIMITS OF COLORED CONCRETE (RED, 4" THICK, IMPRINTED)

SHEET NOTES:

1. *ALL SLOPES ARE IN REFERENCE TO THE HORIZONTAL.*
2. *PAYMENT FOR PCC CURB & GUTTER (ALL TYPES) AND TRANSITION C&G SHALL BE PAID UNDER THE BID ITEM "PCC CURB & GUTTER, (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.*
3. *CENTER THE PROPOSED DRIVEWAY ENTRANCES ON DRIVEWAY CENTERLINE REFERENCE POINT AS SHOWN IN THE 20.28 RECONSTRUCT DRIVEWAY SUMMARY TABLES PROVIDED ON THE ROADWAY SUMMARY TABLE "T" SHEETS OR AS SHOWN ON THE DRIVEWAY RECONSTRUCTION PLANS.*
4. *WHERE INSULATION IS INSTALLED IN ROADWAY, INSTALL INSULATION UNDER DRIVEWAY PER DETAIL 5, SHEET C5.*
5. *SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLES ON THE ROADWAY SUMMARY TABLE "T" SHEETS AND DRIVEWAY RECONSTRUCTION PLANS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.*

RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

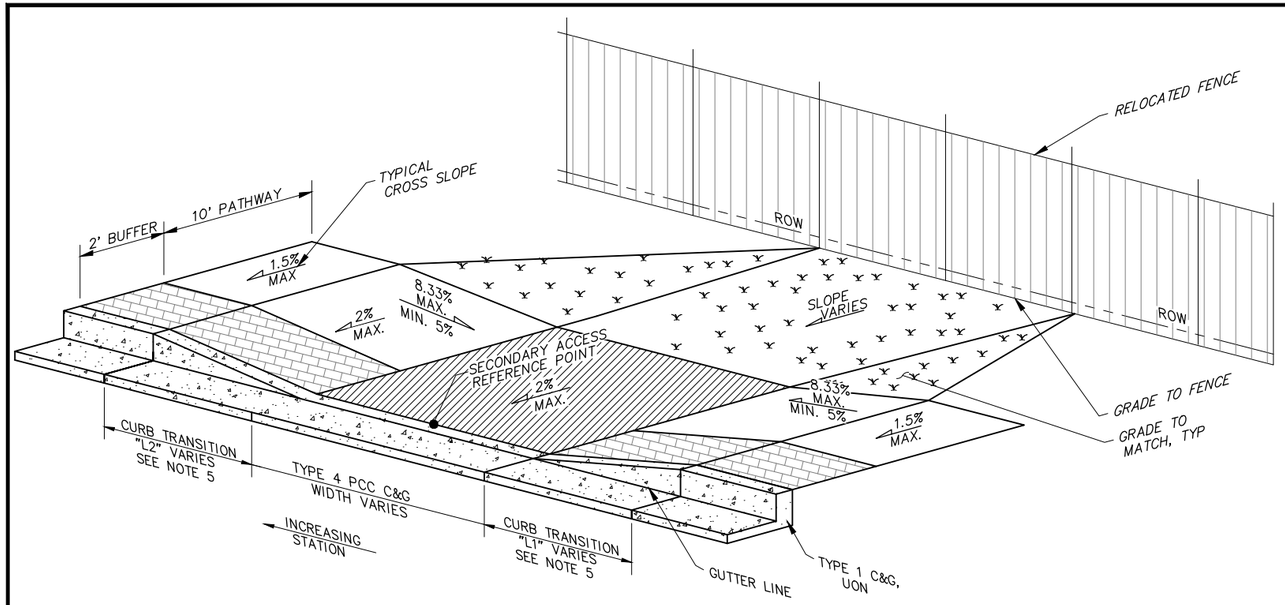
06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

ROADWAY DETAILS

DRIVEWAYS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET D3 of D7

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Details.dwg



1

SECONDARY ACCESS DETAIL

SCALE: NTS

SHEET LEGEND:

LIMITS OF 2" AC PAVING (CLASS E) FOR DRIVEWAY

LIMITS OF COLORED CONCRETE (RED, 4" THICK, IMPRINTED)

SHEET 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.
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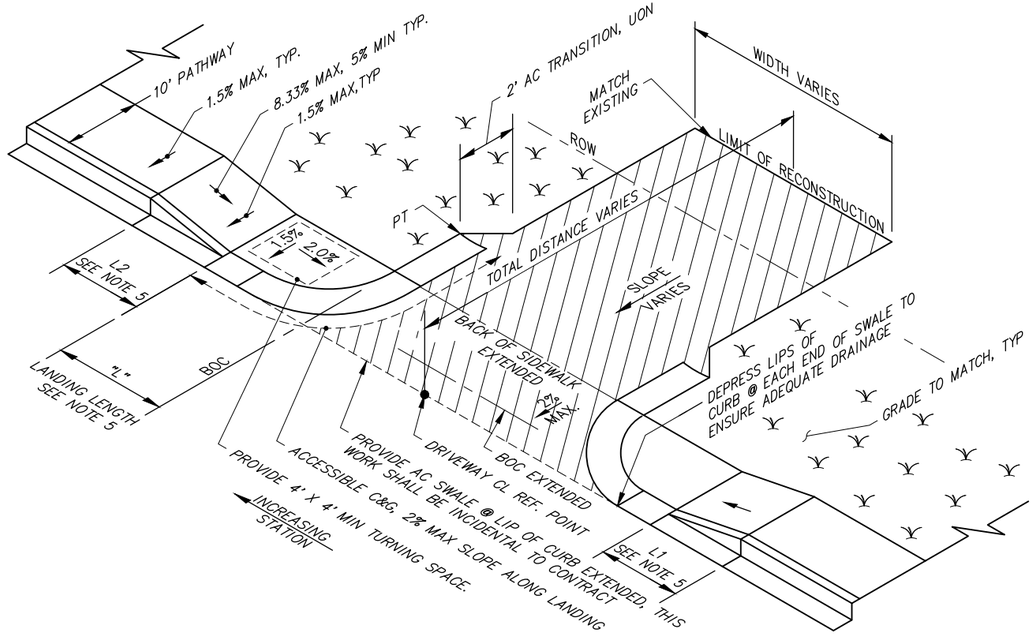
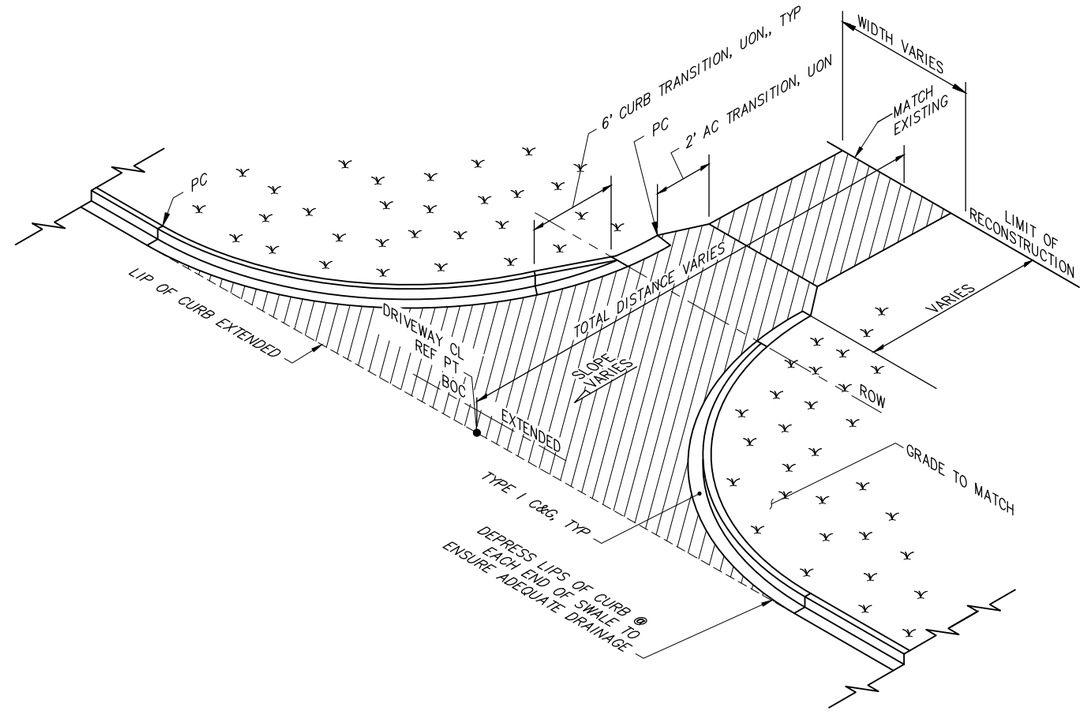
4. WHERE INSULATION IS INSTALLED IN ROADWAY, INSTALL INSULATION UNDER DRIVEWAY PER DETAIL 5, SHEET C5.
5. SEE 20.28 DRIVEWAY RECONSTRUCTION SUMMARY TABLES ON THE ROADWAY SUMMARY TABLE "T" SHEETS AND DRIVEWAY RECONSTRUCTION PLANS, FOR INDIVIDUAL DRIVEWAY SPECIFICS.



2

TYPICAL DRIVEWAY CURB RETURN WITH ATTACHED PATHWAY

SCALE: NTS



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TYPICAL DRIVEWAY CURB RETURN WITHOUT PATHWAY

SCALE: NTS

RECORD DRAWING

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

PLAN CHECK

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DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
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STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

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REVISIONS

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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 — 48TH AVENUE UPGRADES — SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY DETAILS

DRIVEWAYS, SECONDARY ACCESS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET D4 of D7

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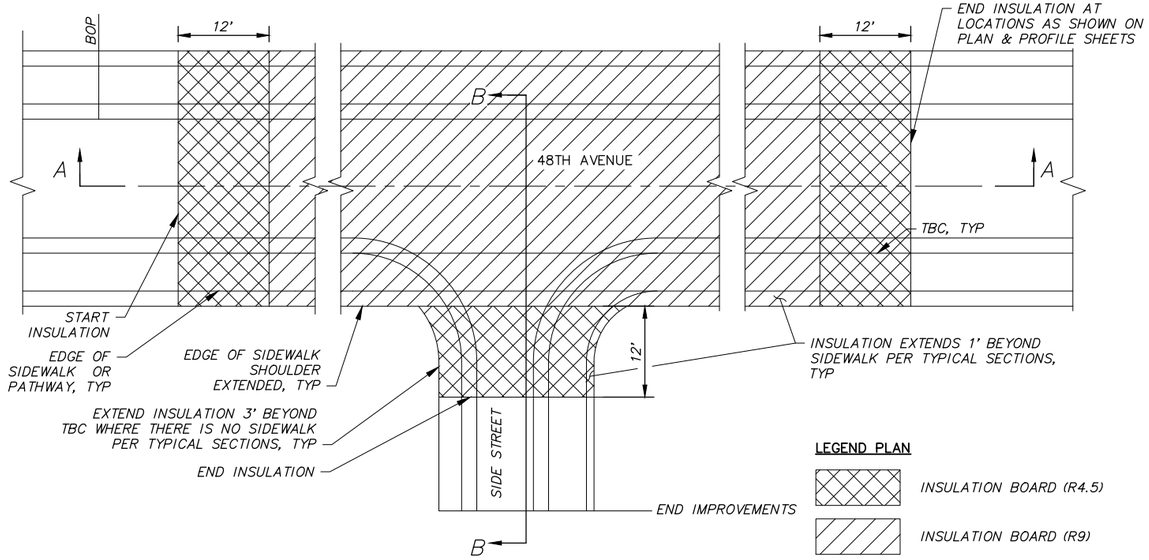
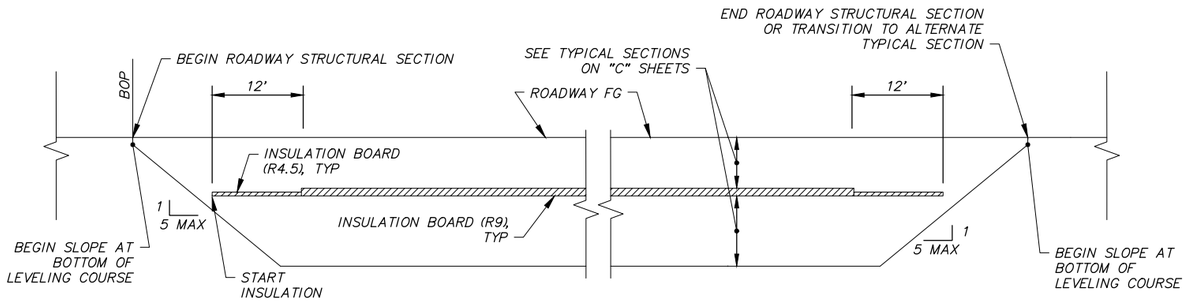
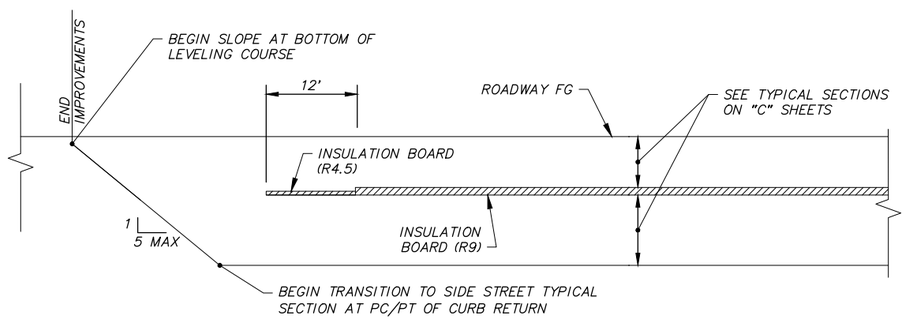


PLAN



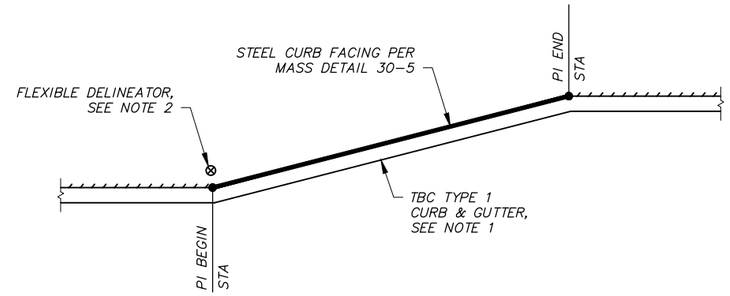
A–A



B–B

1 BOARD INSULATION AND EXCAVATION DETAIL

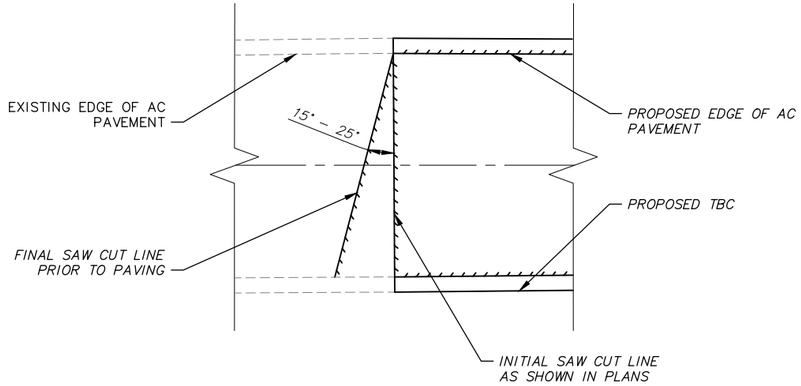
SCALE: NTS



1. STEEL CURB FACING REQUIRED ON TYPE 1 CURB AND GUTTER ONLY. SEE INTERSECTION LAYOUT SHEETS FOR CURB TYPE AT NECKDOWNS OR TAPERS.
2. INSTALL FLEXIBLE DELINEATOR 6" BEHIND TBC.

2 CURB AND GUTTER TRANSITION AT NECKDOWN

SCALE: NTS

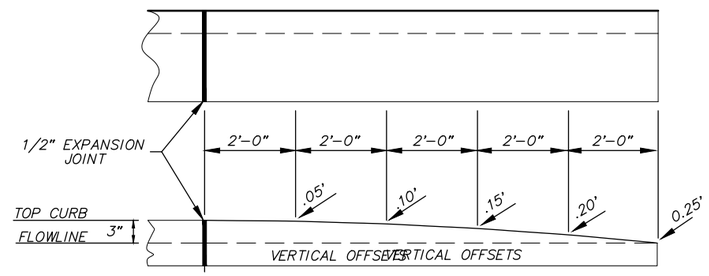


3 TRANSVERSE SAW CUT JOINT DETAIL

SCALE: NTS

SPECIAL TYPE 2 CURB AND GUTTER TERMINATION TRANSITION NOTES:

1. PAYMENT FOR SPECIAL TYPE 2 CURB AND GUTTER TERMINATION TRANSITION SHALL BE PAID UNDER THE BID ITEM "P.C.C. CURB AND GUTTER (ALL TYPES)" AND NO SEPARATE PAYMENT SHALL BE MADE.



4 SPECIAL TYPE 2 CURB AND GUTTER TERMINATION TRANSITION

SCALE: NTS

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PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	
DESIGN	CRW BOOK No. 161 & 186
STAKING	
ASBUILT	
CONTRACTOR	
INSPECTOR	

VERTICAL DATUM

BM NO.	LOCATION	ELEV.
GAAB–32	See MOA Benchmark Book, Page D–24	123.98
CB–8C	See MOA Benchmark Book, Page D–24	135.32

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

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CONSULTANT

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06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

ROADWAY DETAILS

MISCELLANEOUS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET D5 of D7

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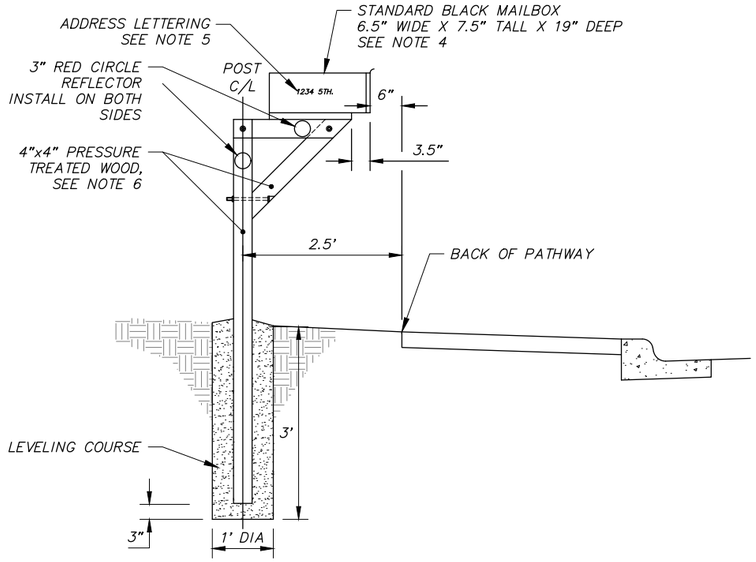
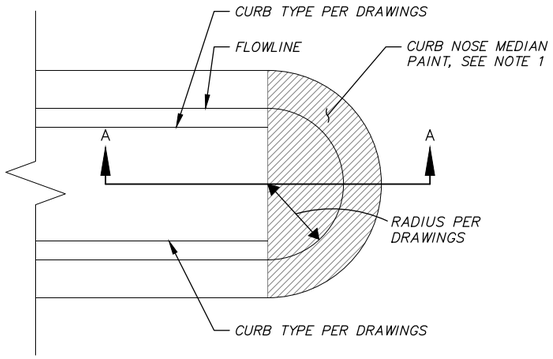


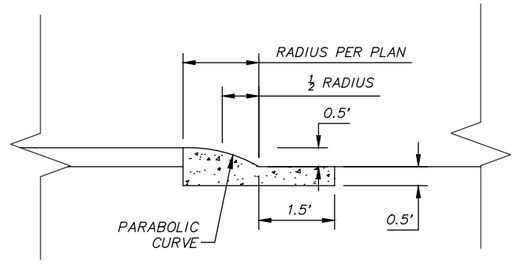
TYPICAL WOOD POST MAILBOX NOTES:

1. *SEE "RELOCATE MAILBOX" TABLE, DEMOLITION SHEETS & ROADWAY SHEETS FOR LOCATING MAILBOXES ALONG ROADWAY. LOCATIONS ARE APPROXIMATE, VERIFY LOCATION WITH ENGINEER PRIOR TO INSTALLATION.*
2. *MAILBOXES AND SUPPORTS SHALL CONFORM WITH U.S. POSTAL SERVICE REGULATIONS.*
3. *NEWSPAPER RECEPTACLES SHALL CONFORM TO THE SAME SETBACK AND SUPPORT REGULATIONS AS MAILBOXES. WHERE NEWSPAPER RECEPTACLES AND MAILBOXES ARE TO BE MOUNTED TOGETHER, THE NEWSPAPER RECEPTACLE SHALL BE MOUNTED BELOW THE BOTTOM SURFACE OF THE MAILBOX.*
4. *CONTRACTOR SHALL COORDINATE WITH THE MOA AND ENGINEER IN THE FIELD REGARDING MAILBOX SUBSTITUTIONS OR MAILBOX SIZING, PRIOR TO ORDERING MATERIALS.*
5. *CONTRACTOR SHALL INSTALL MAILBOX ADDRESS LABELS TO MATCH EXISTING LABELS. ADDRESS LABELS SHALL BE A MINIMUM OF 1" IN HEIGHT AND INSTALLED ON THE SIDE OF THE MAILBOX VISIBLE FROM ON COMING TRAFFIC. ADDRESS LABELS SHOULD BE CENTERED BOTH VERTICAL AND HORIZONTAL ON MAILBOX.*
6. *ALL WOOD SHALL BE PRESSURE TREATED WOOD SEALED WITH A SEMI-TRANSPARENT OIL BASED STAIN BROWN IN COLOR. SUBMIT COLOR SAMPLE FOR APPROVAL.*

1 **TYPICAL WOOD POST MAILBOX INSTALLATION**

SCALE: NTS





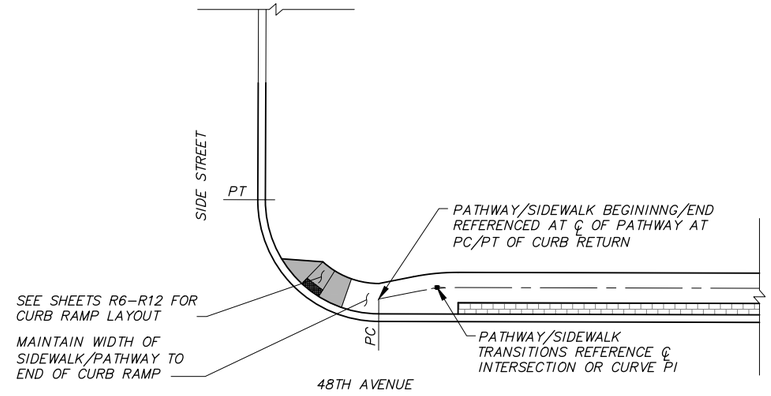
SECTION A–A

CURB NOSE MEDIAN DETAIL NOTE:

1. *CURB NOSE MEDIAN SHALL BE PAINTED WITH YELLOW 60 MIL METHYL METHACRYLATE REFLECTIVE TRAFFIC PAINT. PAINTING & MATERIALS SHALL BE PAID FOR UNDER THE SECTION 70.10 CURB NOSE TRAFFIC MARKING (METHYL METHACRYLATE) PAY ITEM.*

2 **CURB NOSE MEDIAN DETAIL**

SCALE: NTS



PATHWAY CENTERLINE DETAIL NOTE:

1. *SEE ROADWAY SUMMARY TABLE "T" SHEETS FOR PATHWAY ALIGNMENT LAYOUT SUMMARY TABLE.*

3 **PATHWAY CENTERLINE ALIGNMENT REFERENCE DETAIL**

SCALE: NTS

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GAS	MS	BW
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PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
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ASBUILT			
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CONSTRUCTION RECORD — VERTICAL DATUM

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CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY DETAILS

MISCELLANEOUS

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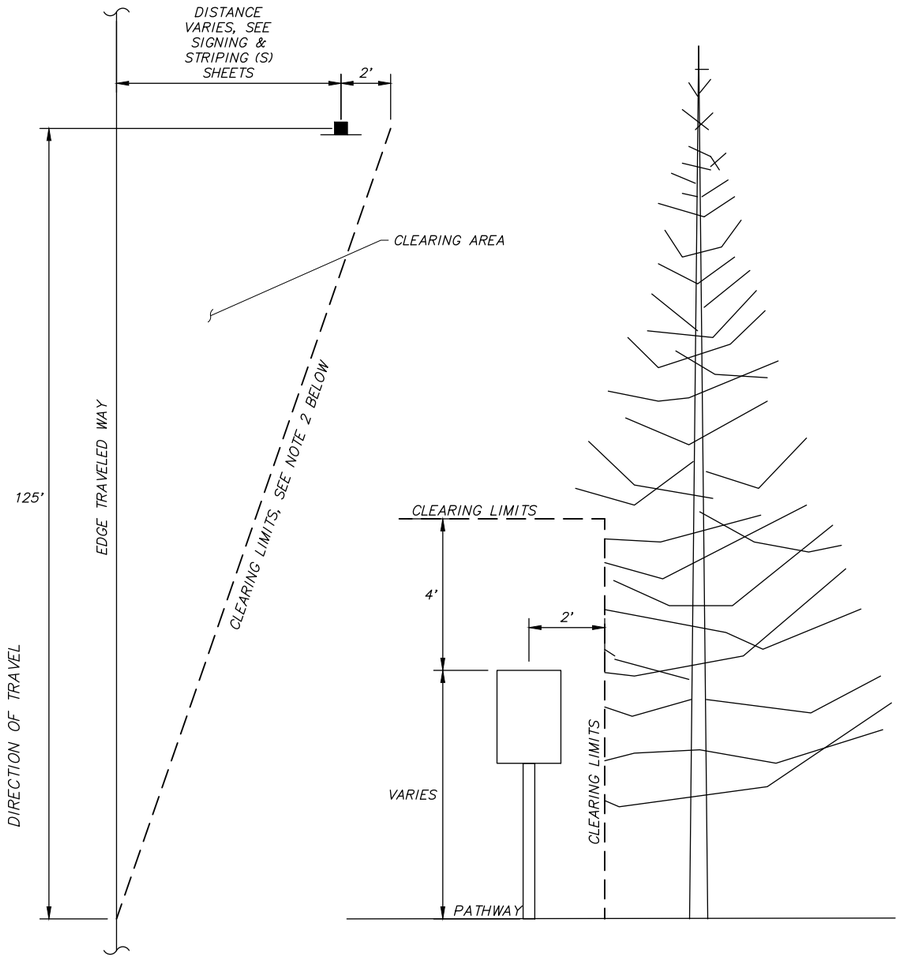


PLAN

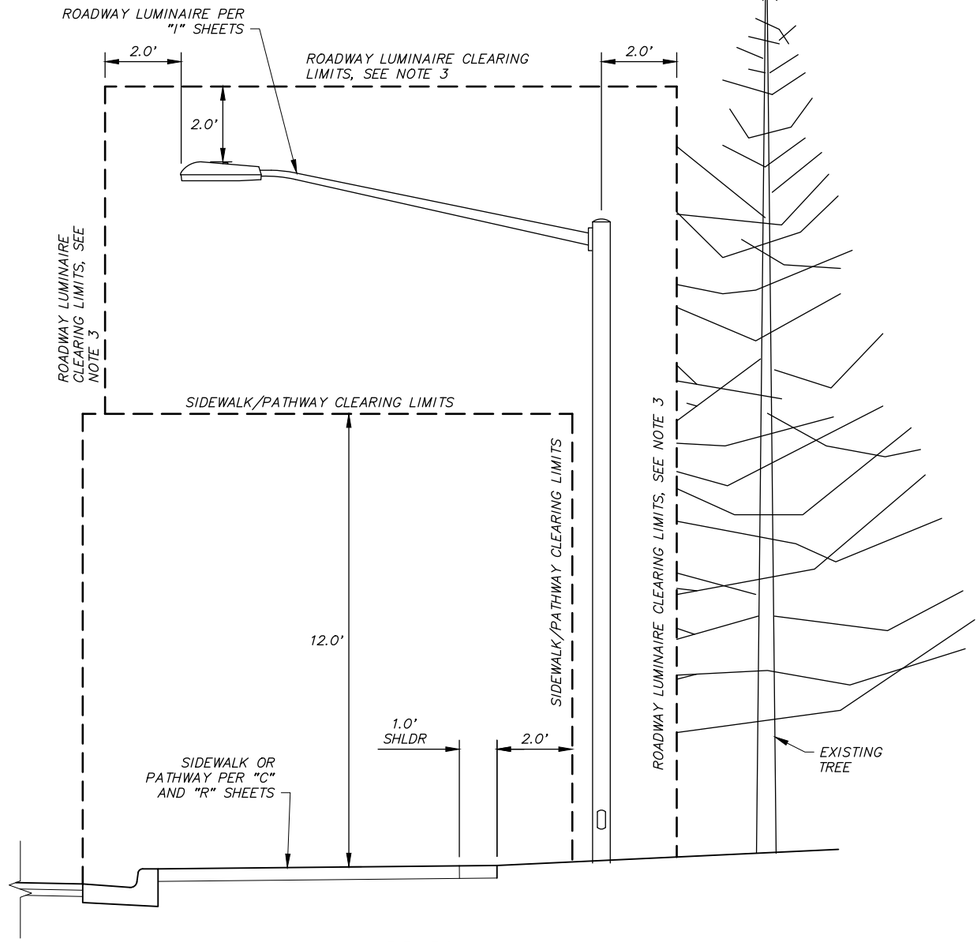
ELEVATION

SIGN SIGHT DISTANCE CLEARING DETAIL NOTES:

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

1 SIGN SIGHT DISTANCE CLEARING DETAIL

SCALE: NTS



ELEVATION

SIDEWALK/PATHWAY AND ROADWAY LUMINAIRE CLEARING DETAIL NOTES:

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

2 SIDEWALK/PATHWAY AND ROADWAY LUMINAIRE CLEARING DETAIL

SCALE: NTS

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TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME

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ASBUILT			
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INSPECTOR			

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

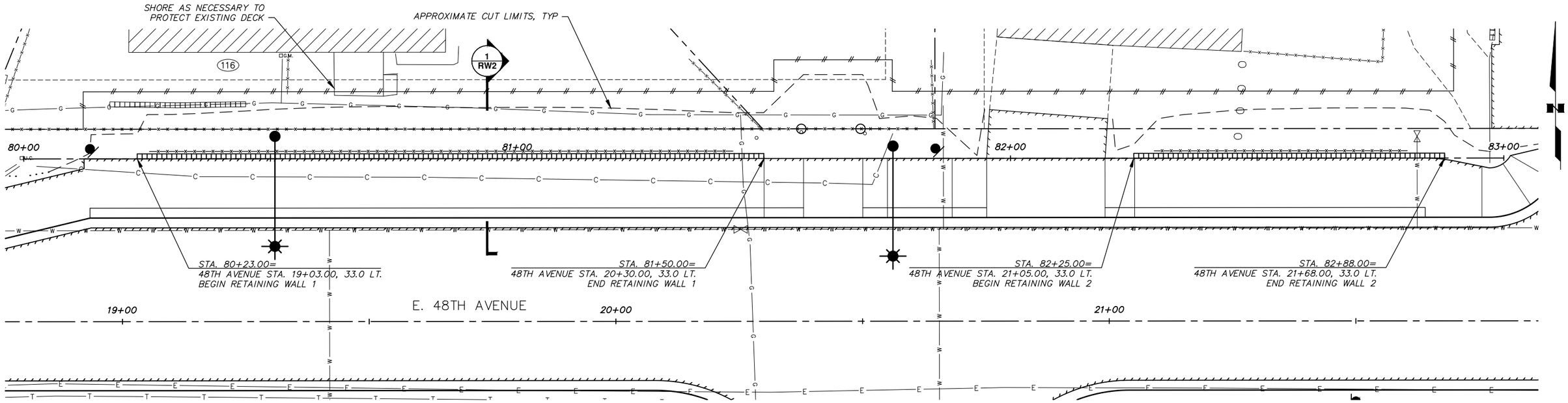
06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

ROADWAY DETAILS

MISCELLANEOUS

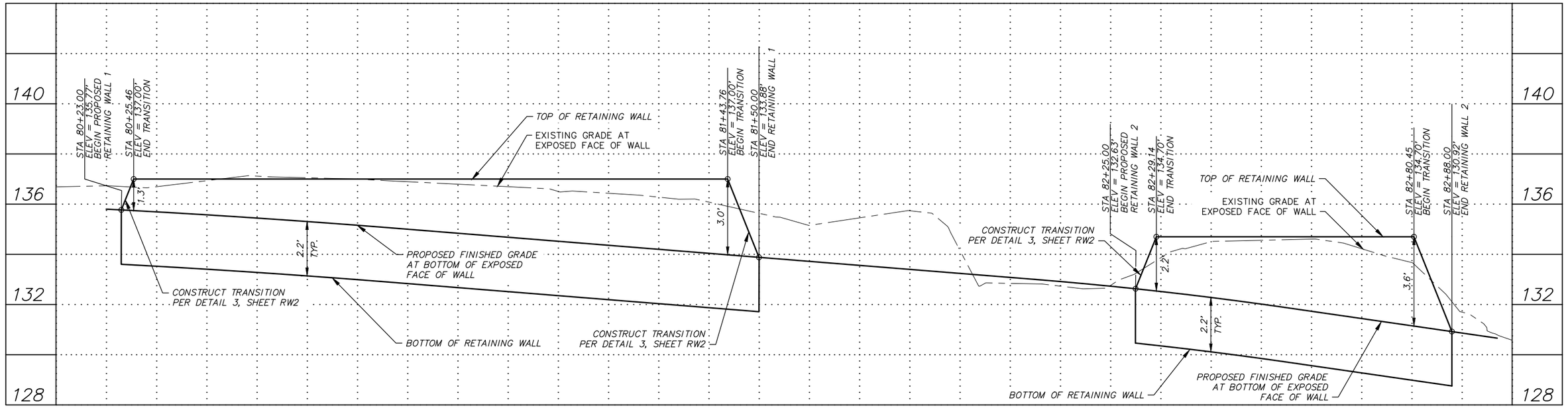
SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET D7 of D7

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Roadway Details.dwg



NOTES:

1. SEE TYPICAL RETAINING WALL SECTIONS, SHEET RW2.
2. RETAINING WALL PROFILE IS APPROXIMATE. CONTRACTOR SHALL INSTALL WALL AS NECESSARY TO MATCH GRADE.
3. VERIFY RETAINING WALL PROFILE CHANGES IN THE FIELD WITH ENGINEER PRIOR TO FORMING RETAINING WALLS.



RECORD DRAWING

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

PLAN CHECK

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

GRAPHIC SCALE 20 10 0 10 20

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR			
INSPECTOR			

VERTICAL DATUM

BASIS OF THIS DATUM GAAB 1972 ADJUST

REVISIONS

REV	DATE	DESCRIPTION	BY

CONSULTANT

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

SEAL

STATE OF ALASKA 49 TH
Matthew C. Edge
CE-11035
REGISTERED PROFESSIONAL ENGINEER

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

RETAINING WALL PLAN AND PROFILE

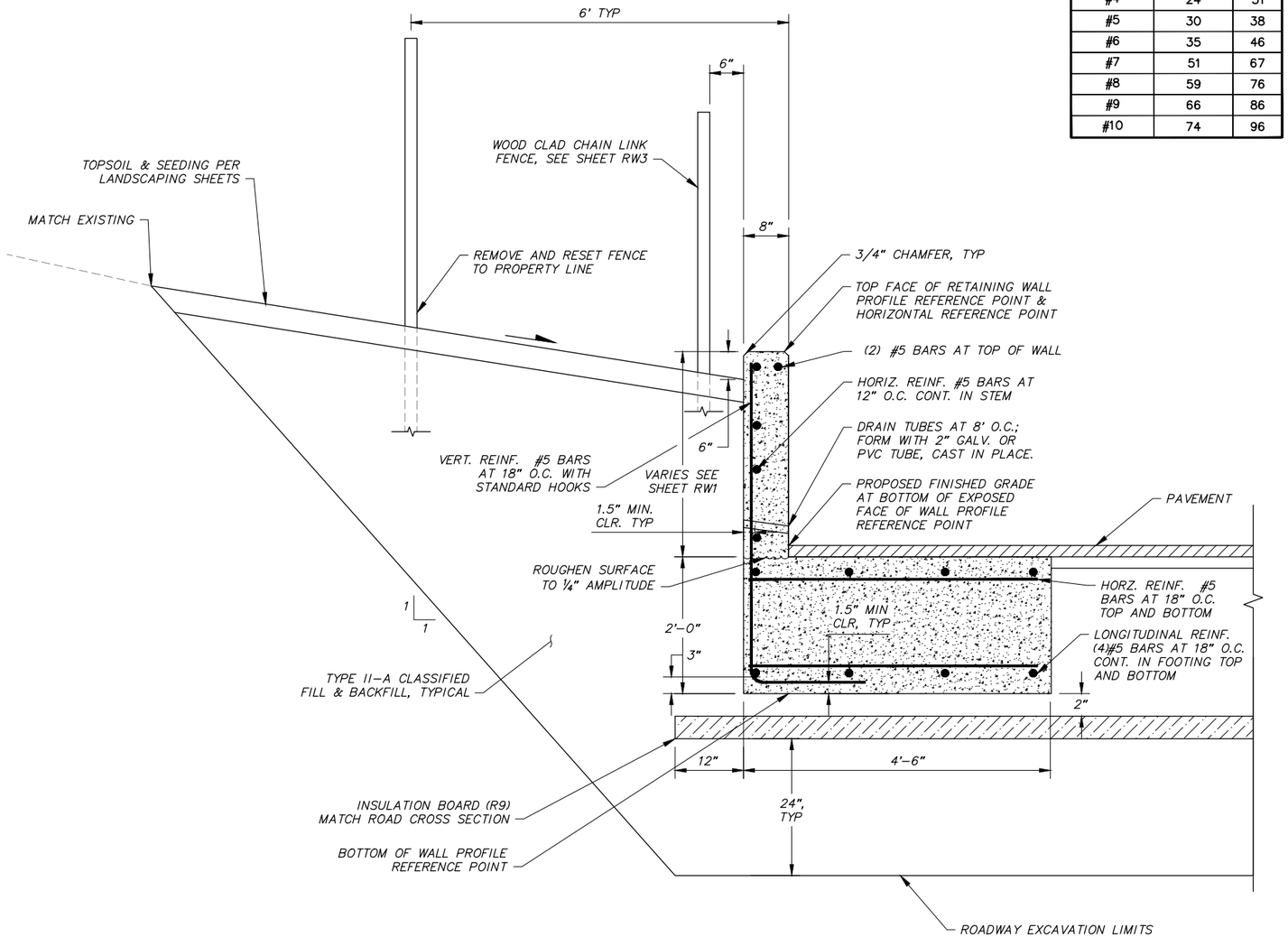
SCALE HOR. 1"=10' VER. 1"=2' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET RW1 of RW3

File:J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Retaining Wall Plan And Profile.dwg

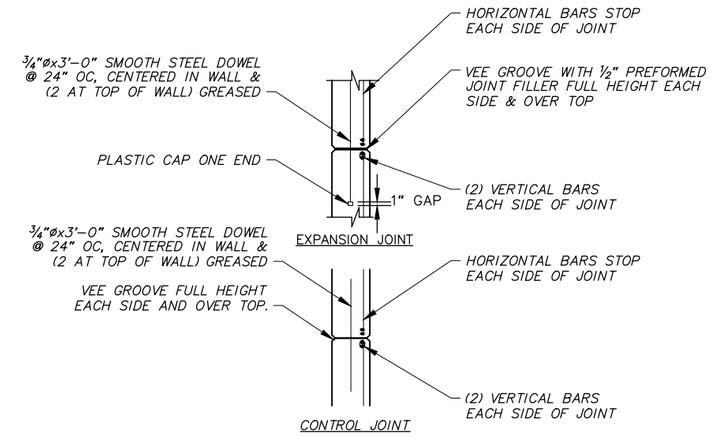
RETAINING WALL NOTES:

1. ALL RETAINING WALL CONCRETE WORK SHALL CONFORM TO ACI–318 AND SHALL BE DESIGNED FOR A MINIMUM 28–DAY COMPRESSIVE STRENGTH OF 4,000 PSI.

LAP LENGTH (INCHES)		
BAR SIZE	NORMAL	TOP
#4	24	31
#5	30	38
#6	35	46
#7	51	67
#8	59	76
#9	66	86
#10	74	96

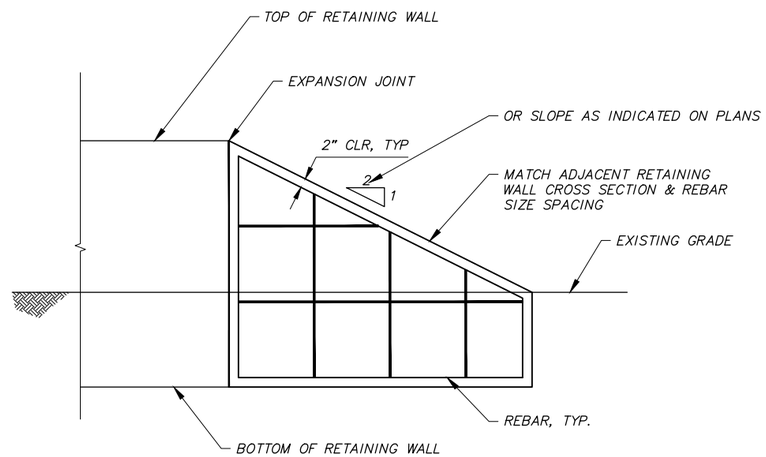


1 **RETAINING WALL SECTION**
SCALE: NTS



NOTE: PROVIDE JOINTS AT 20' MAX ON CENTER IN ALL CONCRETE RETAINING WALLS AND AT EDGES OF TRANSITIONS. EVERY 4TH JOINT SHALL BE AN EXPANSION JOINT.

2 **VERTICAL JOINTS PLAN VIEW**
SCALE: NTS



3 **TRANSITION DETAIL**
SCALE: NTS

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PLAN CHECK

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

CONSTRUCTION RECORD

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED A

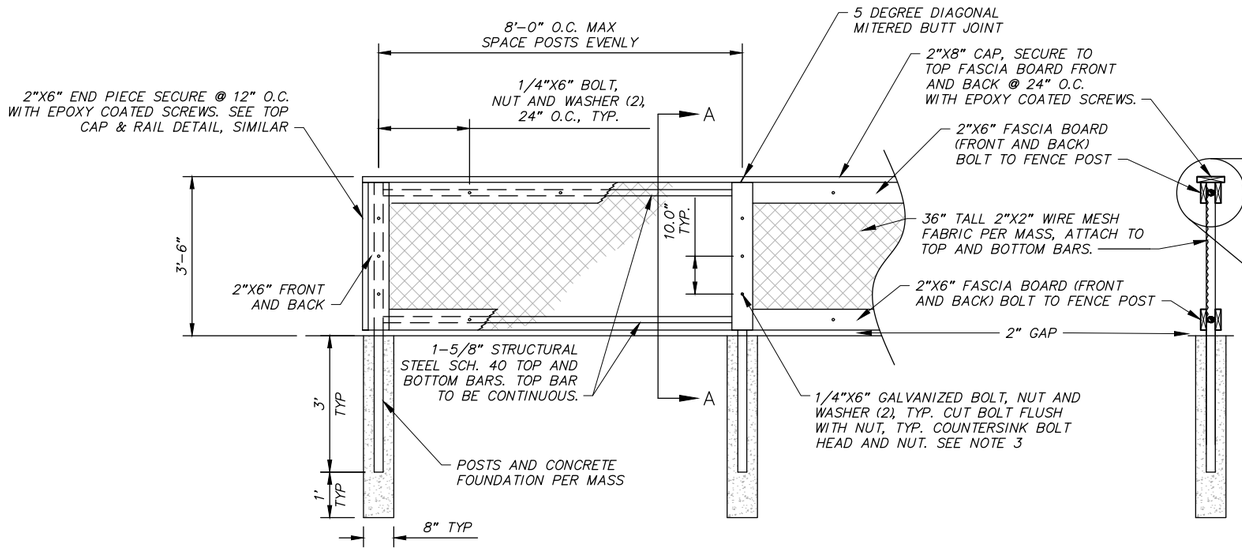
RETAINING WALL DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET RW2 of RW3

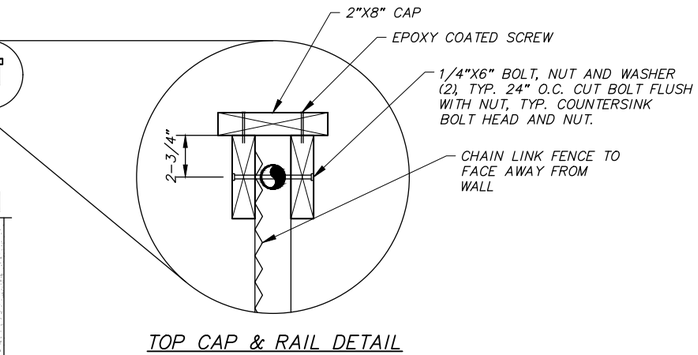
File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Retaining Wall Details.dwg

RETAINING WALL FENCE NOTES:

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



ELEVATION



FENCE SECTION A-A

TOP CAP & RAIL DETAIL

1 **WOOD CLAD CHAIN LINK FENCE DETAIL**

SCALE: NTS

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PROFILE	RB	ME
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GAS	MS	BW
TELEPHONE	MS	BW
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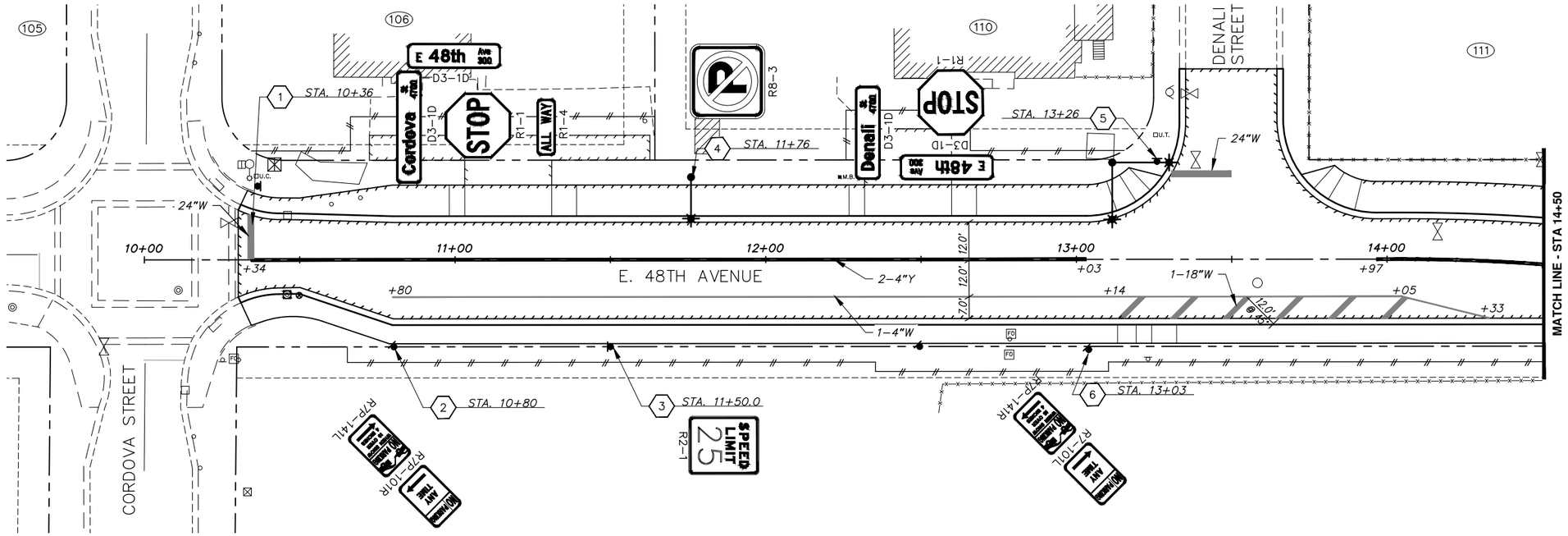
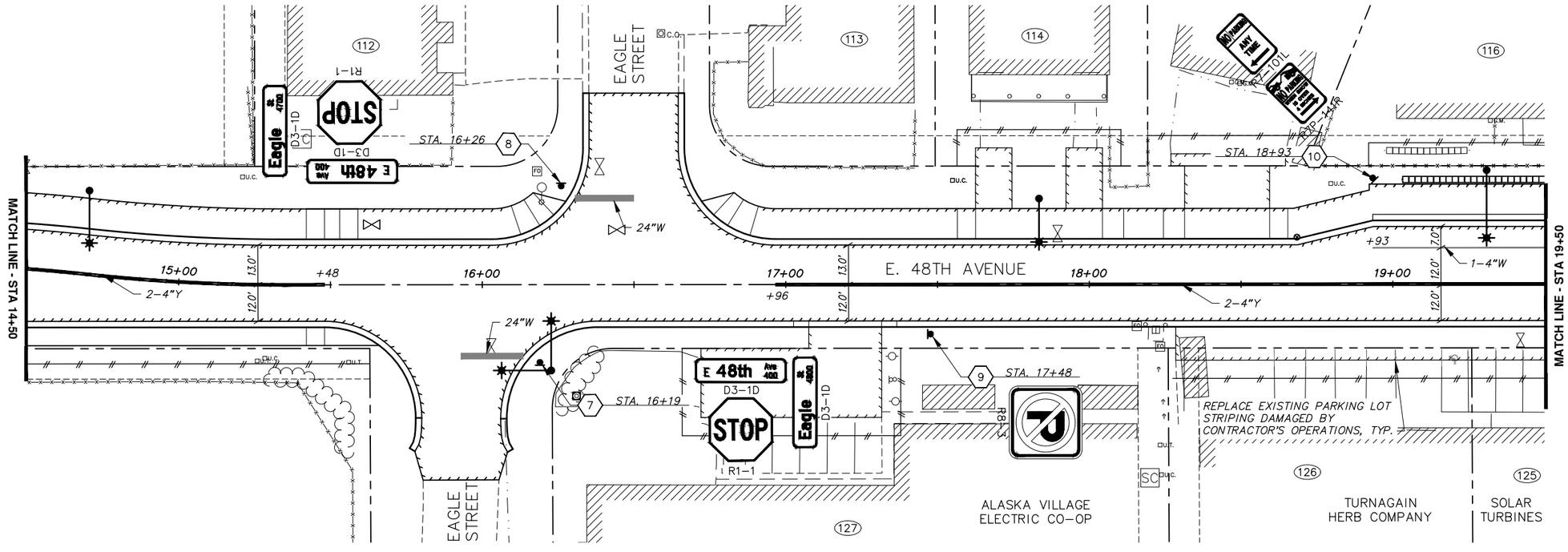
CORDOVA STREET TO OLD SEWARD HIGHWAY

RETAINING WALL DETAILS

SCALE HOR. N/A
VER. N/A
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET RW3 of RW3

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Retaining Wall Details.dwg





File: J:\Jobs\ato\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Signing And Striping Plan.dwg

RECORD DRAWING

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PLAN CHECK		

GRAPHIC SCALE 0 20 40 60 80

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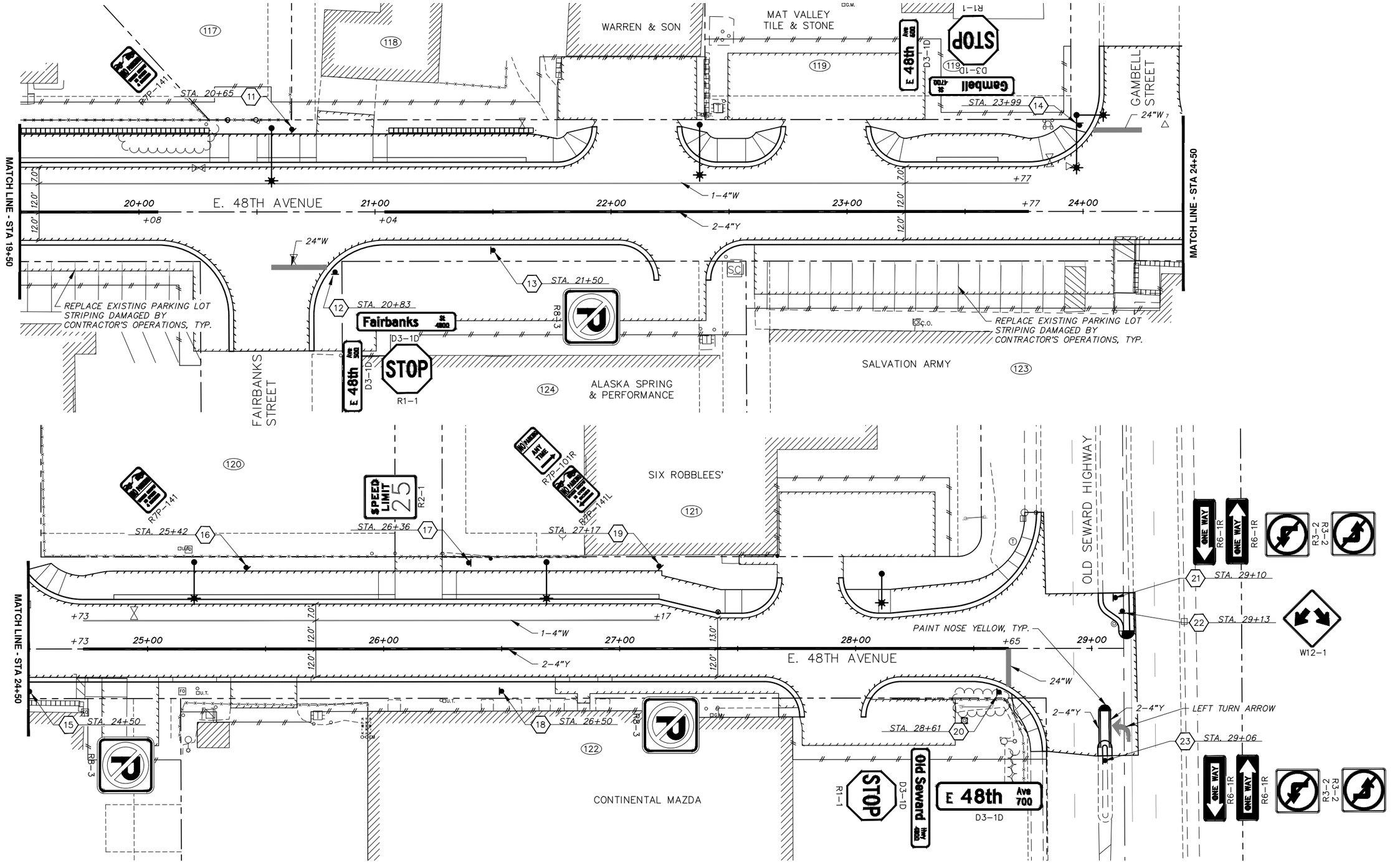
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

SIGNING & STRIPING PLAN

SCALE HOR. 1"=20'
VER. N/A
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET S1 of S3



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PLAN CHECK

GRAPHIC SCALE 0 20 40 60 80

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CONSTRUCTION RECORD | VERTICAL DATUM

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REVISIONS

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CORDOVA STREET TO OLD SEWARD HIGHWAY

SIGNING & STRIPING PLAN

SCALE HOR. 1"=20' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET S2 of S3

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Signing And Striping Plan.dwg

SIGN SCHEDULE

SHEET NO.	POST NO.	STATION	OFFSET	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
S1	1	10+36	23.7 LT	D3-1D	E 48TH AVE 300	30	8	1.67	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-1D	CORDOVA ST 4700	36	8	2.00	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	E		
				R1-4	ALL WAY	18	6	0.75	E		
	2	10+80	28.0 RT	R7-101R	NO PARKING RIGHT	12	18	1.50	NW	2" PST	
				R7P-141L	NO PARKING WHEN SNOW IS OVER 4 INCHES LEFT	12	18	1.50	NW		
	3	11+50	28.0 RT	R2-1	SPEED LIMIT 25	24	30	5.00	W	2" PST	
	4	11+76	26.5 LT	R8-3	NO PARKING	18	18	2.25	E		MOUNT ON LIGHT POLE
	5	13+26	31.5 LT	D3-1D	E 48TH AVE 300	30	8	1.67	N/S	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-1D	DENALI ST 4700	30	8	1.67	E/W		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
	6	13+03	28.0 RT	R7-101L	NO PARKING LEFT	12	18	1.50	NW	2" PST	
				R7P-141R	NO PARKING WHEN SNOW IS OVER 4 INCHES RIGHT	12	18	1.50	NW		
	7	16+19	25.6 RT	D3-1D	EAGLE ST 4800	30	8	1.67	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-1D	E 48TH AVE 400	30	8	1.67	N/S		ONE DOUBLE SIDED PANEL
				R1-1	STOP	12	18	1.50	S		
	8	16+26	32.5 LT	D3-1D	EAGLE ST 4700	30	8	1.67	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-1D	E 48TH AVE 400	30	8	1.67	N/S		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
	9	17+47	16.3 RT	R8-3	NO PARKING	18	18	2.25	W	2" PST	
	10	18+93	35.0 LT	R7-101L	NO PARKING LEFT	12	18	1.50	SE	2" PST	
				R7P-141R	NO PARKING WHEN SNOW IS OVER 4 INCHES RIGHT	12	18	1.50	SE		
S2	11	20+65	35.0 LT	R7P-141	NO PARKING WHEN SNOW IS OVER 4 INCHES	12	18	1.50	SE	2" PST	
	12	20+83	25.5 RT	D3-1D	FAIRBANKS ST 4800	42	8	2.33	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-1D	E 48TH AVE 500	30	8	1.67	N/S		
				R1-1	STOP	30	30	6.25	S		
	13	21+50	16.3 RT	R8-3	NO PARKING	18	18	2.25	W	2" PST	
	14	23+99	35.0 LT	D3-1D	GAMBELL ST 4700	36	8	2.00	E/W	2.5" PST	ONE DOUBLE SIDED PANEL
				D3-1D	E 48TH AVE 600	30	8	1.67	N/S		ONE DOUBLE SIDED PANEL
				R1-1	STOP	30	30	6.25	N		
	15	24+50	18.0 RT	R8-3	NO PARKING	18	18	2.25	W	2" PST	
	16	25+42	34.5 LT	R7P-141	NO PARKING WHEN SNOW IS OVER 4 INCHES	12	18	1.50	SE	2" PST	
	17	26+36	36.5 LT	R2-1	SPEED LIMIT 25	24	30	5.00	E	2" PST	
	18	26+50	18.0 RT	R8-3	NO PARKING	18	18	2.25	W	2" PST	
	19	27+17	35.0 LT	R7-101R	NO PARKING RIGHT	12	18	1.50	SE	2" PST	
				R7P-141L	NO PARKING WHEN SNOW IS OVER 4 INCHES LEFT	12	18	1.50	SE		
	20	28+61	18.5 RT	D3-1D	OLD SEWARD HWY 4800	42	8	2.33	E/W	2.5" PST	
				D3-1D	E 48TH AVE 700	44	12	2.50	N/S		
				R1-1	STOP	30	30	6.25	W		
	21	29+10	21.5 LT	R6-1	ONE WAY	54	18	6.75	E/W	2.5" PST	MOUNT TWO SIGNS BACK TO BACK
				R3-2	NO LEFT TURN	36	36	9.00	E/W		MOUNT TWO SIGNS BACK TO BACK
	22	29+13	15.8 LT	W12-1	DIVIDER	36	36	9.00	S	2.5" PST	
	23	29+06	47.6 RT	R6-1	ONE WAY	54	18	6.75	E/W	2.5" PST	MOUNT TWO SIGNS BACK TO BACK
				R3-2	NO LEFT TURN	36	36	9.00	E/W		MOUNT TWO SIGNS BACK TO BACK

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 DETAILS 70-18 AND 70-19.*
4. *ALL STOP SIGNS AND STREET NAME SIGNS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.*
5. *INSTALL SIGN ON LIGHT POLES PER SEE MASS STANDARD DETAIL 70-30.*
6. *THE LETTERING FOR STREET NAME SIGNS (D3 SERIES) SHALL BE FEDERAL HIGHWAY ADMINISTRATION "FHWA 2000 SERIES C" LETTERING, A COMBINATION OF LOWER-CASE LETTERS WITH INITIAL UPPER-CASE LETTERS.*

STRIPING NOTES:

1. *UNLESS OTHERWISE NOTED, PROVIDE METHYL METHACRYLATE PAINT OF THE COLORS AND WIDTHS SPECIFIED FOR THE TRAFFIC MARKINGS INDICATED IN THE DRAWINGS. CURB NOSE PAINT SHALL BE METHYL METHACRYLATE PAINT WITH 60 MILS THICKNESS. PROVIDE 125 MILS INLAID APPLICATION MARKINGS. CURB NOSE PARKING LOT STRIPING ON PARCELS 123, 125 AND 126 SHALL BE TRAFFIC PAINT.*
2. *"W" REFERENCES WHITE MARKINGS, AND "Y" REFERENCES YELLOW MARKINGS.*
3. *ALL STRIPING SHALL CONFORM TO THESE CONTRACT DOCUMENTS AND THE STANDARD MASS DETAILS. ALL REVISIONS SHALL CONFORM TO THE LATEST EDITION OF THE ALASKA TRAFFIC MANUAL AND THE MUTCD. LEFT TURN ARROW SYMBOL SHALL BE CONSTRUCTED IN ACCORDANCE WITH MASS STANDARD DETAIL 70-14.*
4. *DIMENSIONS REFERENCE CENTER OF STRIPE TO CENTER OF STRIPE OR EDGE OF PAVEMENT.*

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

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

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA
49 TH
Rebecca L. Campbell
CE-10464
REGISTERED PROFESSIONAL ENGINEER

SEAL

UNIVERSITY OF ANCHORAGE

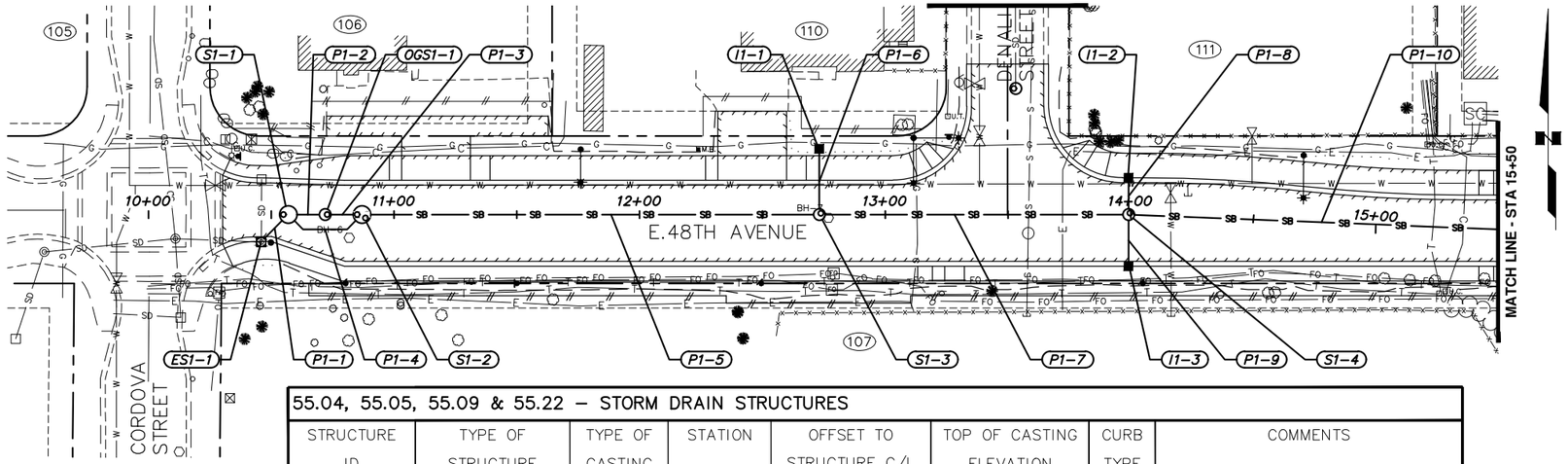
PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES SCHED A
CORDOVA STREET TO OLD SEWARD HIGHWAY

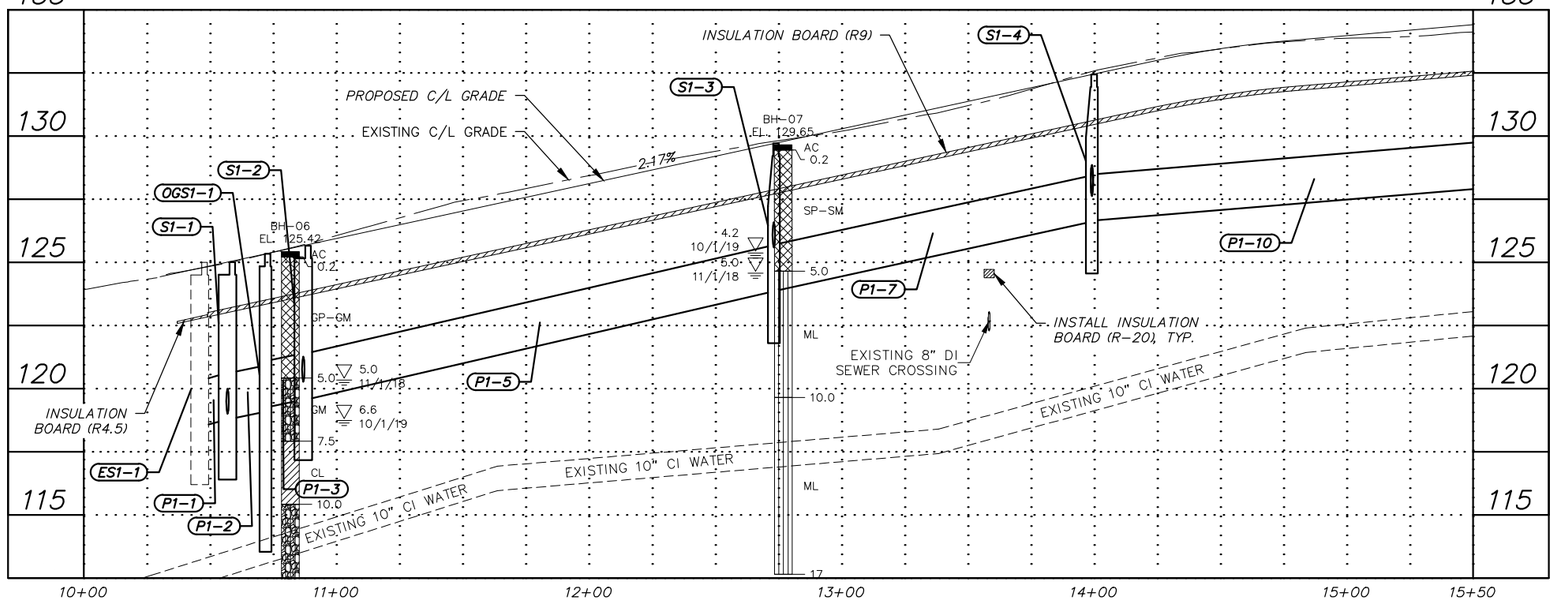
SIGN SCHEDULE SUMMARY

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET S3 of S3

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Signing And Striping Plan.dwg



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
ES1–1	CONNECT	MH	10+45.90	11.20' RT	125.17	1	EXISTING MH, CONNECT PIPE P1–1
S1–1	MH II	MH	10+56.89	CL	124.93	N/A	
OGS1–1	OGS	MH	10+71.89	CL	125.31	N/A	SEE DETAIL 2, SHEET SD7
S1–2	BYPASS MH II	MH	10+86.89	CL	125.62	N/A	SEE DETAIL 3, SHEET SD7
S1–3	MH I	MH	12+73.18	CL	129.68	N/A	
I1–1	CB	FI	12+73.18	26.75' LT	130.05	N/A	BEEHIVE INLET
S1–4	MH I	MH	13+99.08	CL	132.41	N/A	
I1–2	CB	CI	13+99.08	15.00' LT	132.58	1	
I2–3	CB	CI	13+99.08	21.00' RT	132.46	1	



NOTES:

1. *AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.*
2. *REFER TO SHEET SD6 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD6–SD7 FOR STORM DRAIN DETAILS.*
4. *REFER TO SHEET SD7 FOR OGS AND BYPASS STRUCTURE DETAILS.*
5. *CPEP FITTINGS I.A.W. MASS SECTION 55.02 SHALL BE USED FOR BYPASS PIPING, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. LOCATION OF FITTINGS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL FIELD LOCATE FITTINGS WITH ENGINEER'S APPROVAL TO MINIMIZE CONFLICTS WITH OTHER UTILITIES AND OBSTRUCTIONS. CONCRETE THRUST BLOCKS I.A.W. MASS STANDARD DETAIL 60–06 SHALL BE INSTALLED AT ALL FITTINGS. PAYMENT FOR THRUST BLOCKS SHALL BE CONSIDERED INCIDENTAL TO PAY ITEM 55.02, FURNISH, INSTALL, AND TELEVISE PIPE.*

55.02 & 55.03 – STORM DRAIN & SUBDRAIN PIPE								
PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P1–1	18	CPEP, SP	15.54	S1–1	ES1–1	118.90	118.70	2.10%
P1–2	18	CPEP, SP	15.00	OGS1–1	S1–1	119.21	119.00	2.10%
P1–3	18	CPEP, SP	15.00	S1–2	OGS1–1	119.67	119.46	2.10%
P1–4*	12	CPEP, S	34.97	S1–2	S1–1	120.27	119.00	4.38%
P1–5	18	CPEP, SP	186.29	S1–3	S1–2	123.97	119.77	2.32%
P1–6	12	CPEP, S	26.75	I1–1	S1–3	126.05	125.59	2.02%
P1–7	18	CPEP, SP	125.90	S1–4	S1–3	126.73	124.07	2.18%
P1–8	12	CPEP, S	15.00	I1–2	S1–4	128.08	127.86	2.00%
P1–9	12	CPEP, S	21.00	I1–3	S1–4	127.96	127.62	2.00%
P1–10	18	CPEP, SP	175.94	S2–1	S1–4	128.26	126.83	0.83%

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

RECORD DRAWING

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

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

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD — VERTICAL DATUM

REV.	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

STATE OF ALASKA 49 TH
Joseph C. Hegna
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SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

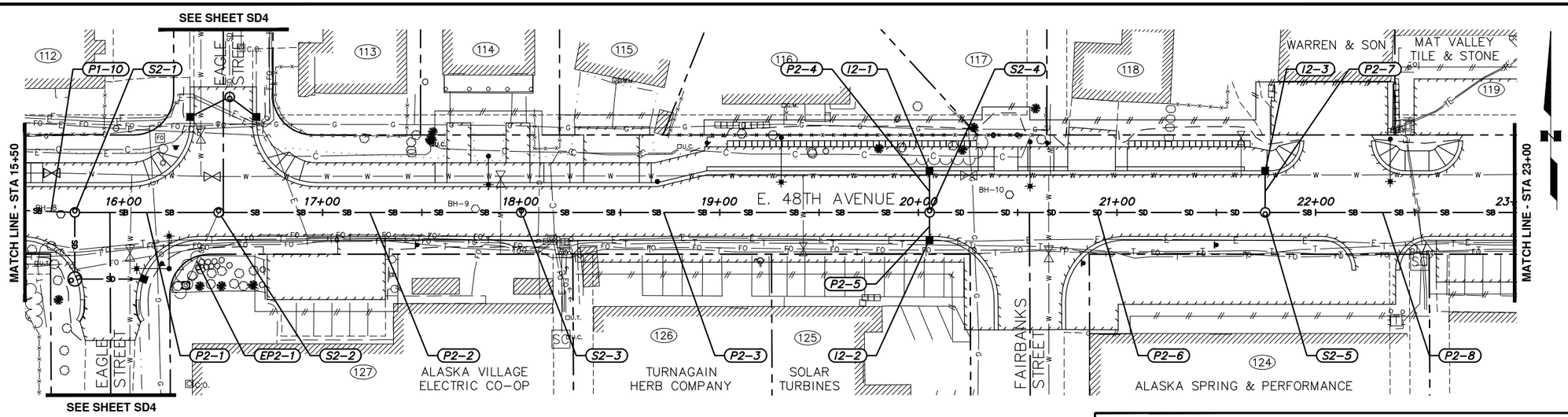
06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED B

STORM DRAIN PLAN & PROFILE

E. 48TH AVENUE BOP TO STA 15+50

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET SD1 of SD7

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Storm Drain Plan And Profile.dwg



NOTES:

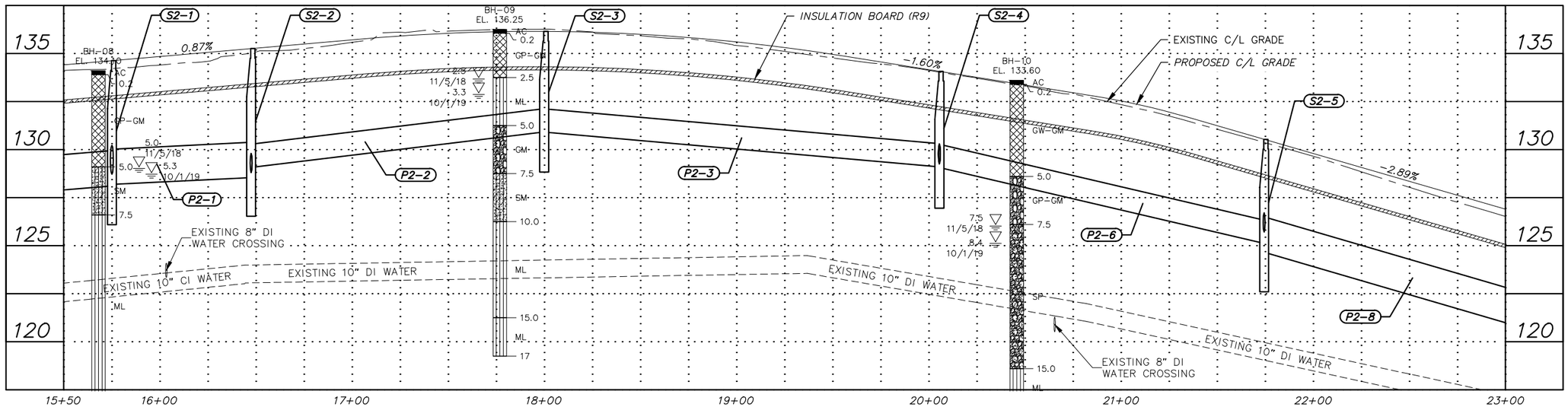
1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. REFER TO SHEET SD6 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
3. REFER TO SHEETS SD6–SD7 FOR STORM DRAIN DETAILS.

55.05 & 55.09 – STORM DRAIN STRUCTURES

STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S2–1	MH I	MH	15+75.13	CL	134.57	N/A	
S2–2	MH I	MH	16+47.56	CL	135.19	N/A	
S2–3	MH I	MH	18+00.00	CL	136.13	N/A	
S2–4	MH I	MH	20+05.57	CL	134.01	N/A	
I2–1	CB	CI	20+05.57	21.00' LT	134.09	1	
I2–2	CB	CI	20+05.57	14.00' RT	134.00	2	
S2–5	MH I	MH	21+74.54	CL	130.48	N/A	
I2–3	CB	CI	21+74.54	21.00' LT	130.28	1	

55.02 & 55.03 – STORM DRAIN & SUBDRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P2–1	18	CPEP, SP	72.42	S2–2	S2–1	128.70	128.36	0.50%
EP2–1	12	CPEP, S	–	S2–2	–	–	128.8±	–
P2–2	12	CPEP, SP	152.44	S2–3	S2–2	131.00	129.20	1.21%
P2–3	12	CPEP, SP	205.57	S2–3	S2–4	131.00	129.22	0.88%
P2–4	12	CPEP, S	21.00	I2–1	S2–4	129.59	129.25	2.00%
P2–5	12	CPEP, S	14.00	I2–2	S2–4	129.50	129.30	2.00%
P2–6	12	CPEP, SP	168.96	S2–4	S2–5	129.12	125.27	2.33%
P2–7	12	CPEP, S	21.00	I2–3	S2–5	126.05	125.71	2.00%
P2–8	18	CPEP, SP	250.35	S2–5	S3–1	124.77	117.57	2.92%



RECORD DRAWING

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

PLAN CHECK

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

CONSTRUCTION RECORD

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

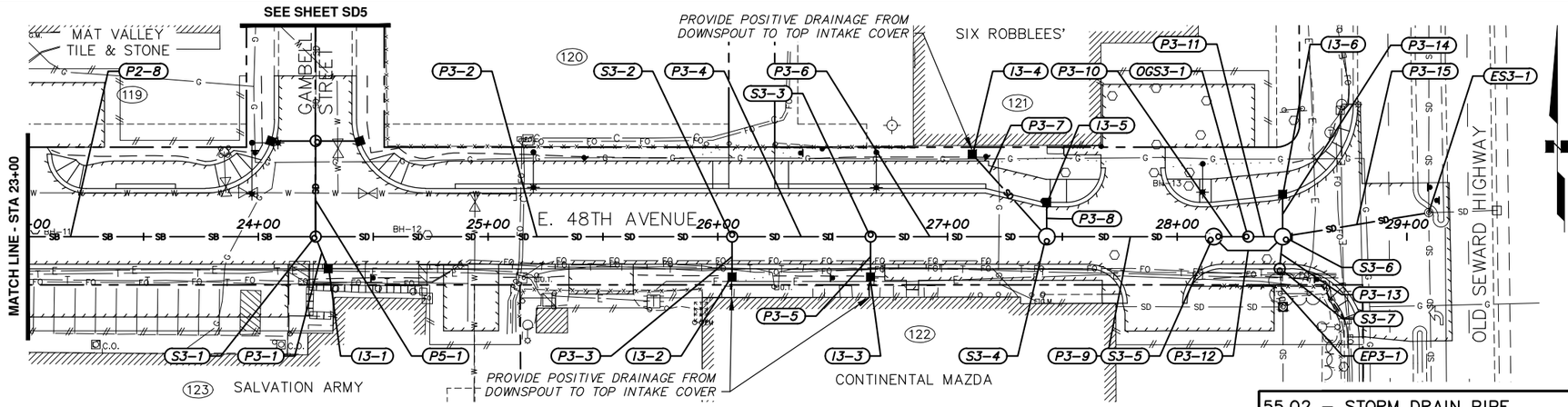
06–26 48TH AVENUE UPGRADES SCHED B
CORDOVA STREET TO OLD SEWARD HIGHWAY

STORM DRAIN PLAN & PROFILE

E. 48TH AVENUE
STA 15+50 TO STA 23+00

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET SD2 of SD7

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Storm Drain Plan And Profile.dwg



NOTES:

1. AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.
2. REFER TO SHEET SD6 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.
3. REFER TO SHEETS SD6–SD7 FOR STORM DRAIN DETAILS.
4. REFER TO SHEET SD7 FOR OGS AND BYPASS STRUCTURE DETAILS.
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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	MH	24+24.89	CL	123.63	N/A	
I3–1*	CB	CI	24+30.42	14.00' RT	123.73	1	
S3–2*	MH I	MH	26+06.17	CL	121.96	N/A	
I3–2*	CB	FI	26+06.17	17.50' RT	121.42	N/A	TOP INTAKE COVER
S3–3*	MH I	MH	26+66.53	CL	121.50	N/A	
I3–3*	CB	FI	26+66.53	17.50' RT	121.89	N/A	TOP INTAKE COVER
I3–4*	CB	FI	27+10.79	36.00' LT	120.47	N/A	TOP INTAKE COVER
S3–4*	MH II	MH	27+43.22	CL	120.99	N/A	
I3–5*	CB	CI	27+43.22	15.00' LT	121.03	1	
S3–5*	BYPASS MH II	MH	28+15.91	CL	120.49	N/A	SEE DETAIL 3, SHEET SD7
OGS3–1*	OGS	MH	28+30.91	CL	120.40	N/A	SEE DETAIL 2, SHEET SD7
S3–6*	MH II	MH	28+45.91	CL	120.25	N/A	
S3–7*	CB MH I / CONNECT	MH	28+44.61	14.00' RT	120.50	1	CONNECT PIPE EP3–1
I3–6*	CB	CI	28+45.91	18.48' LT	120.22	1	
ES3–1	CONNECT	MH	29+09.51	10.44' LT	120.91	N/A	EXISTING MH, CONNECT PIPE P3–14

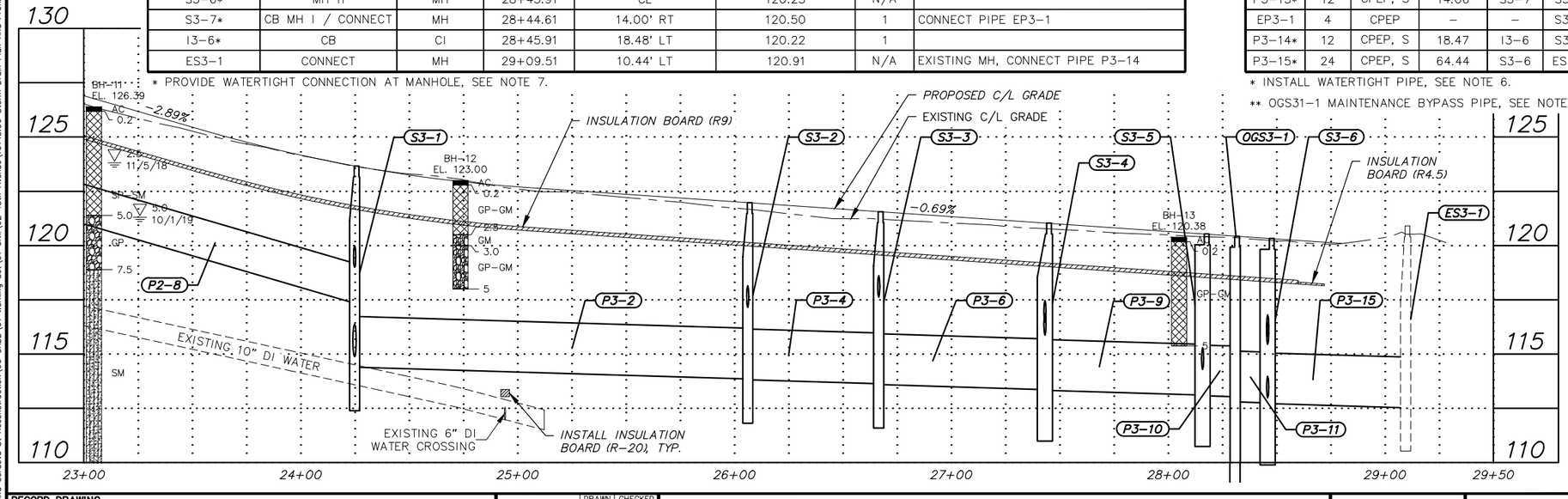
* PROVIDE WATERTIGHT CONNECTION AT MANHOLE, SEE NOTE 7.

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P3–1*	12	CPEP, S	14.83	I3–1	S3–1	119.23	119.00	2.12%
P3–2*	24	CPEP, S	181.29	S3–1	S3–2	114.56	114.03	0.30%
P3–3*	12	CPEP, S	17.50	I3–2	S3–2	117.42	117.15	2.00%
P3–4*	24	CPEP, S	60.36	S3–2	S3–3	113.98	113.81	0.30%
P3–5*	12	CPEP, S	17.50	I3–3	S3–3	117.89	117.62	2.00%
P3–6*	24	CPEP, S	76.69	S3–3	S3–4	113.76	113.54	0.31%
P3–7*	12	CPEP, S	36.00	I3–4	S3–4	116.47	115.83	2.00%
P3–8*	12	CPEP, S	15.00	I3–5	S3–4	116.67	116.47	2.00%
P3–9*	24	CPEP, S	72.70	S3–4	S3–5	113.49	113.29	0.30%
P3–10*	24	CPEP, S	15.00	S3–5	OGS3–1	113.24	113.21	0.30%
P3–11*	24	CPEP, S	15.00	OGS3–1	S3–6	112.96	112.93	0.30%
P3–12**	12	CPEP, S	34.97	S3–5	S3–6	114.29	112.98	4.52%
P3–13*	12	CPEP, S	14.06	S3–7	S3–6	116.00	115.81	2.10%
EP3–1	4	CPEP	–	–	S3–7	–	113.9±	–
P3–14*	12	CPEP, S	18.47	I3–6	S3–6	115.72	115.45	2.00%
P3–15*	24	CPEP, S	64.44	S3–6	ES3–1	112.88	112.70	0.30%

* INSTALL WATERTIGHT PIPE, SEE NOTE 6.

** OGS31–1 MAINTENANCE BYPASS PIPE, SEE NOTE 5.



NOTES (CONTINUED):

6. WHERE WATERTIGHT PIPE IS SPECIFIED, CONTRACTOR SHALL PERFORM TESTING I.A.W. MASS SECTION 50.02 (SANITARY SEWER PIPE).
7. INSTALL Z–LOK STM BOOT STYLE CONNECTOR OR APPROVED EQUAL FOR PIPE TO MANHOLE CONNECTION FOR SPECIFIED STORM DRAIN STRUCTURES.

RECORD DRAWING

1. DATA PROVIDED BY: _____ TITLE: _____
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DATA	DRAWN BY	CHECKED BY
BASE	MS	BW
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PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
PRELIMINARY/FINAL	RB	ME
MUNICIPAL/STATE	RB	ME
PLAN CHECK		

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			
CONSTRUCTION RECORD	VERTICAL DATUM		

REV.	DATE	DESCRIPTION	BY
REVISIONS			

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

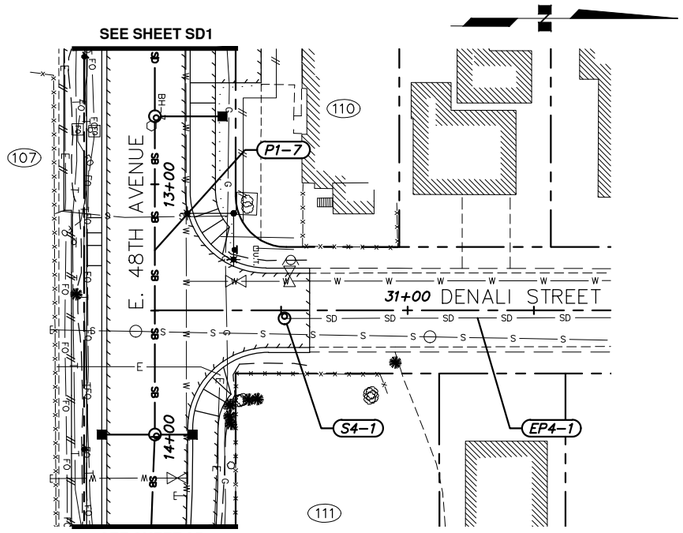
06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED B

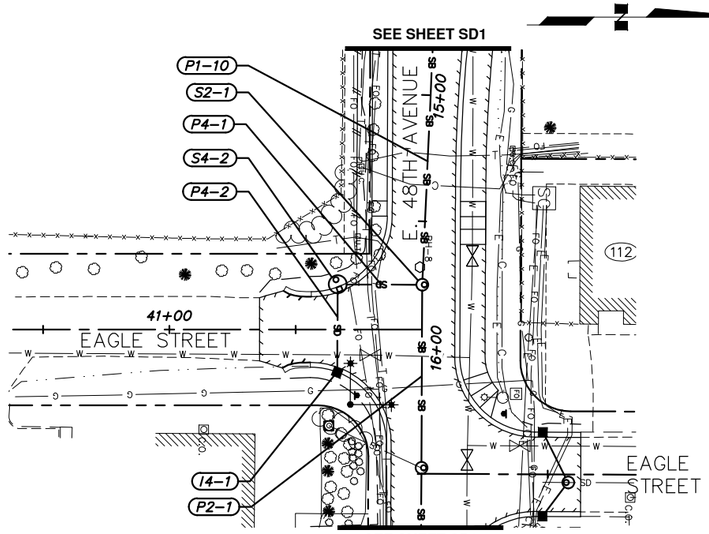
STORM DRAIN PLAN & PROFILE

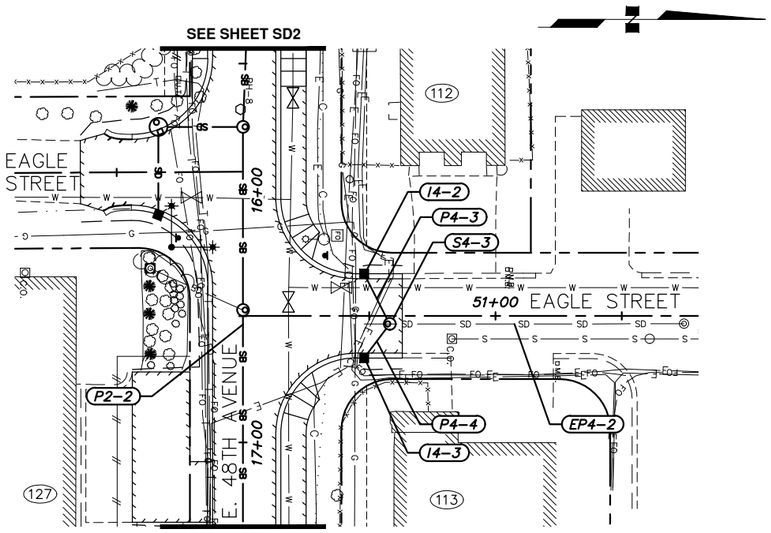
E. 48TH AVENUE
STA 23+00 TO EOP

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET SD3 of SD7

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Storm Drain Plan And Profile.dwg







55.04, 55.05 & 55.09 – STORM DRAIN STRUCTURES

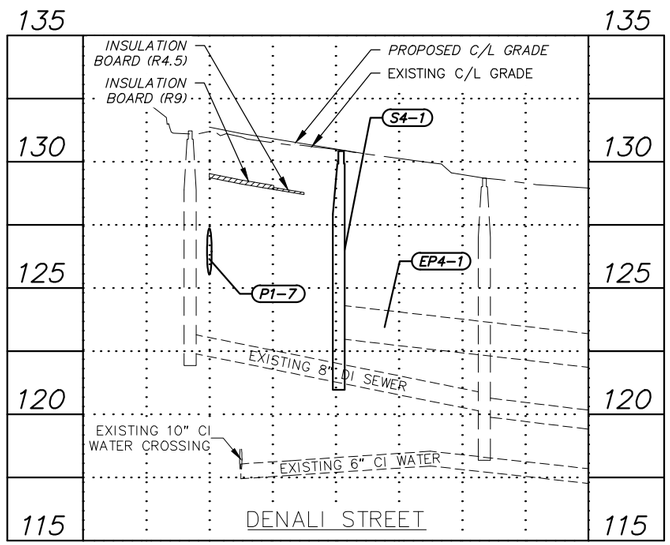
STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S4–1	MH I / CONNECT	MH	30+51.23	3.26' RT	130.38	N/A	CONNECT EXISTING PIPE EP4–1
S4–2	CB MH II	CI / MH	41+66.61	17.88' LT	134.96	1	
I4–1	CB	CI	41+66.43	16.95' RT	134.98	1	
I4–2	CB	CI	50+48.00	16.70' LT	135.12	1	
S4–3	MH I / CONNECT	MH	50+58.09	3.20' RT	135.21	N/A	CONNECT EXISTING PIPE EP4–2
I4–3	CB	CI	50+48.00	16.70' RT	135.12	1	

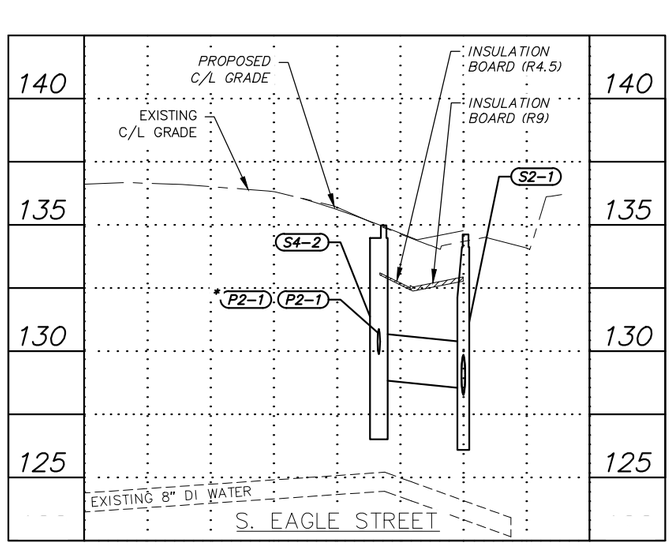
55.02 – STORM DRAIN PIPE

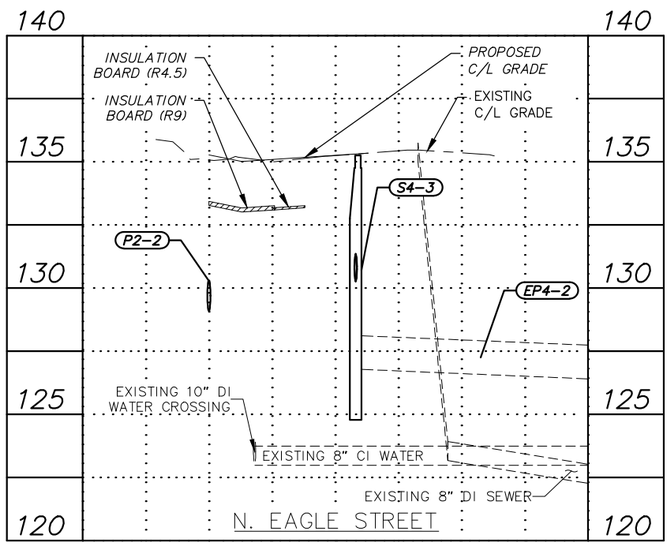
PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
EP4–1	12	CMP	–	S4–1	–	123.1±	–	–
P4–1	18	CPEP, S	33.47	S4–2	S2–1	129.01	128.72	1.02%
P4–2	12	CPEP, S	34.82	I4–1	S4–2	130.48	129.88	2.01%
P4–3	12	CPEP, S	22.31	I4–2	S4–3	130.62	130.25	2.02%
P4–4	12	CPEP, S	16.86	I4–3	S4–3	130.62	130.36	2.02%
EP4–2	12	CMP	–	S4–3	–	127.0±	–	–

NOTES:

1. *AN ASTERISK (*) DENOTES PIPE OR STRUCTURE NOT SHOWN IN PROFILE FOR CLARITY.*
2. *REFER TO SHEET SD6 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD6–SD7 FOR STORM DRAIN DETAILS.*







RECORD DRAWING

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

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

PLAN CHECK

GRAPHIC SCALE 60 30 0 30 60

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB–32	See MOA Benchmark Book, Page D–24	123.98
	CB–8C	See MOA Benchmark Book, Page D–24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

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

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

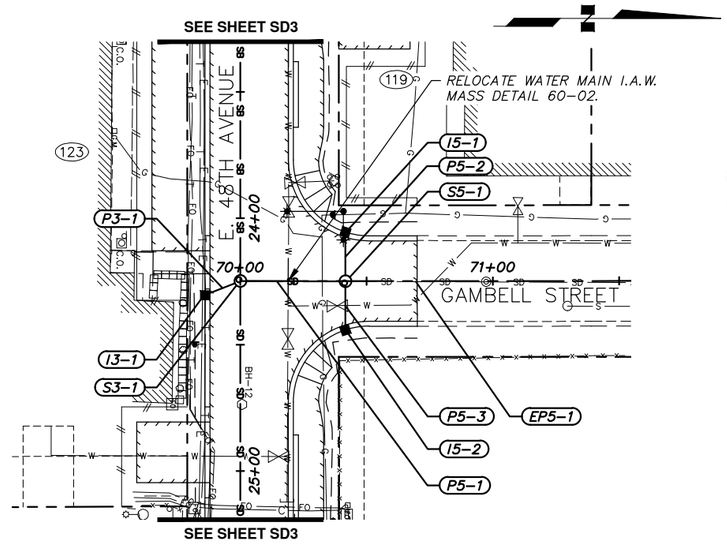
06–26 48TH AVENUE UPGRADES SCHED B
CORDOVA STREET TO OLD SEWARD HIGHWAY

STORM DRAIN PLAN & PROFILE

DENALI STREET, S. EAGLE STREET, N. EAGLE STREET

SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET SD4 of SD7

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Storm Drain Plan And Profile – Sidestreets.dwg



NOTES:

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2. *REFER TO SHEET SD6 FOR GENERAL STORM DRAIN STRUCTURE/PIPE NOTES AND STRUCTURE ABBREVIATIONS USED ON SUMMARY TABLES SHOWN ON THIS SHEET.*
3. *REFER TO SHEETS SD6–SD7 FOR STORM DRAIN DETAILS.*
4. *WHERE WATERTIGHT PIPE IS SPECIFIED, CONTRACTOR SHALL PERFORM TESTING I.A.W. MASS SECTION 50.02 (SANITARY SEWER PIPE).*
5. *INSTALL Z–LOK STM BOOT STYLE CONNECTOR OR APPROVED EQUAL FOR PIPE TO MANHOLE CONNECTION FOR SPECIFIED STORM DRAIN STRUCTURES.*

55.04, 55.05 & 55.09 – STORM DRAIN STRUCTURES

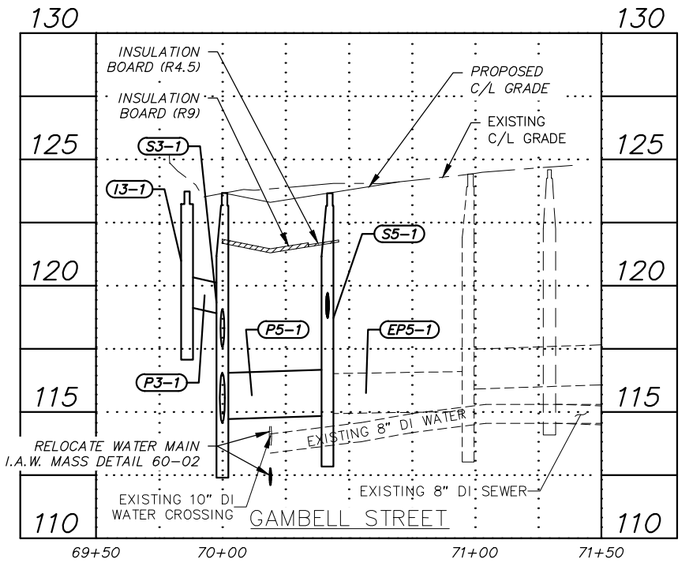
STRUCTURE ID	TYPE OF STRUCTURE	TYPE OF CASTING	STATION	OFFSET TO STRUCTURE C/L	TOP OF CASTING ELEVATION	CURB TYPE	COMMENTS
S5–1*	MH I / CONNECT	MH	70+41.62	0.11' RT	123.59	N/A	CONNECT EXISTING PIPE EP5–1
I5–1*	CB	CI	70+41.65	19.41' LT	123.53	1	
I5–2*	CB	CI	70+41.60	19.40' RT	123.53	1	

* PROVIDE WATERTIGHT CONNECTION AT MANHOLE, SEE NOTE 5.

55.02 – STORM DRAIN PIPE

PIPE NAME	SIZE (IN.)	PIPE TYPE	LENGTH (FT.)	FROM	TO	INLET ELEVATION	OUTLET ELEVATION	SLOPE
P5–1*	18	CPEP, S	41.63	S5–1	S3–1	115.00	114.88	0.32%
P5–2*	12	CPEP, S	19.52	I5–1	S5–1	119.03	118.72	2.00%
P5–3*	12	CPEP, S	19.29	I5–2	S5–1	119.03	118.72	2.03%
EP5–1	15	CMP	–	–	S5–1	–	115.1±	–

* INSTALL WATERTIGHT PIPE, SEE NOTE 4.



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

PLAN CHECK

GRAPHIC 60 30 0 30 60 SCALE

FIELD BOOKS	BM NO.	LOCATION	ELEV.
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STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

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PHONE: (907) 562–3252
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CONSULTANT

STATE OF ALASKA 49 TH
Joseph C. Hegna
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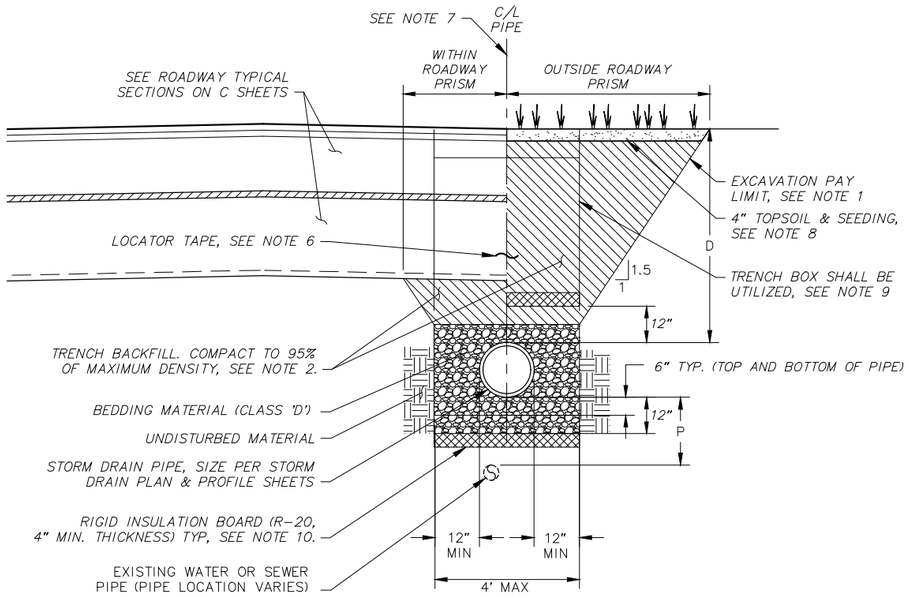
CORDOVA STREET TO OLD SEWARD HIGHWAY

STORM DRAIN PLAN & PROFILE

GAMBELL STREET

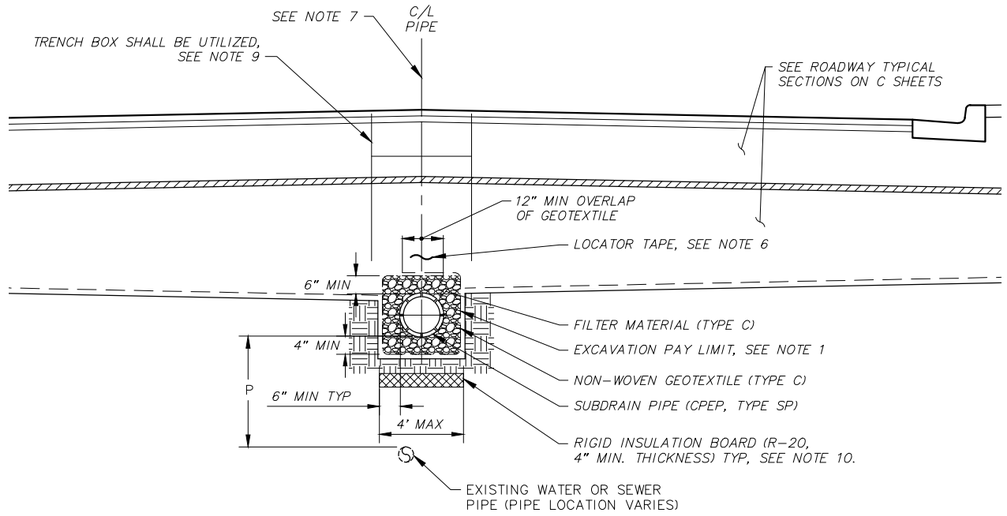
SCALE HOR. 1"=30' VER. 1"=3' | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET SD5 of SD7

File: J:\Jobs\Date\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Storm Drain Plan And Profile – Sidestreets.dwg



1 TYPICAL STORM DRAIN TRENCH SECTION

SCALE: NTS



2 TYPICAL SUBDRAIN 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/SUBDRAIN MAINS CROSS, STORM DRAIN/SUBDRAIN MAIN JOINTS SHALL BE AT LEAST 10 FEET FROM WATER MAIN JOINTS.
6. INSTALL DETECTABLE LOCATOR TAPE AT LEAST 18 INCHES BUT NO MORE THAN 36 INCHES ABOVE THE CROWN OF THE PIPE.
7. LOCATION OF STORM DRAIN/SUBDRAIN VARIES WITHIN ROADWAY. INSTALL STORM DRAIN/SUBDRAIN AS SHOWN ON STORM DRAIN PLAN & PROFILE SHEETS.
8. PLACE 4" OF 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 TAKE EXTRA PRECAUTIONS TO AVOID IMPACTS TO TREE PROTECTION ZONES.
10. INSTALL INSULATION BOARD (R-20) WHEN:
    - 'D' IS LESS THAN 4' IN AREAS OUTSIDE OF THE INSULATED ROADWAY SECTION OF E. 48TH AVENUE. 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 CBMH	CENTER OF MH	TBC @ MID. PT. OF CURB INLET HOOD
OGS	CENTER OF MH	FG/TOP OF LID
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 AND ALL SUBDRAIN PIPE SHALL BE CPEP, TYPE SP.
4. THE FOLLOWING ABBREVIATIONS USED ON THE STORM DRAIN STRUCTURE TABLES ON THE PLAN & PROFILES SHEETS ARE DESCRIBED BELOW:
    - CB – CATCH BASIN
    - CB MH II – CATCH BASIN MANHOLE, TYPE II
    - MH I – STORM DRAIN MANHOLE, TYPE I
    - MH II – STORM DRAIN MANHOLE, TYPE II
    - OGS – OIL AND GRIT SEPARATOR
    - CONNECT – CONNECT TO EXISTING STORM DRAIN MANHOLE AND/OR PIPE
    - CI – CURB INLET
    - FI – FIELD INLET
    - MH – MANHOLE FRAME AND LID

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

PLAN CHECK

FIELD BOOKS
DESIGN CRW BOOK No. 161 & 186
STAKING
ASBUILT
CONTRACTOR
INSPECTOR

CONSTRUCTION RECORD

BM NO.	LOCATION	ELEV.
GAAB-32	See MOA Benchmark Book, Page D-24	123.98
CB-8C	See MOA Benchmark Book, Page D-24	135.32

BASIS OF THIS DATUM GAAB 1972 ADJUST

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

CRW ENGINEERING GROUP, LLC
3940 ARCTIC BLVD. SUITE 300
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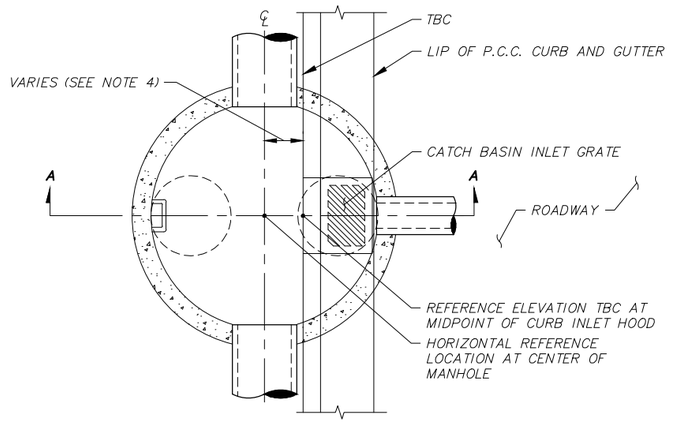
06-26 48TH AVENUE UPGRADES SCHED B
CORDOVA STREET TO OLD SEWARD HIGHWAY

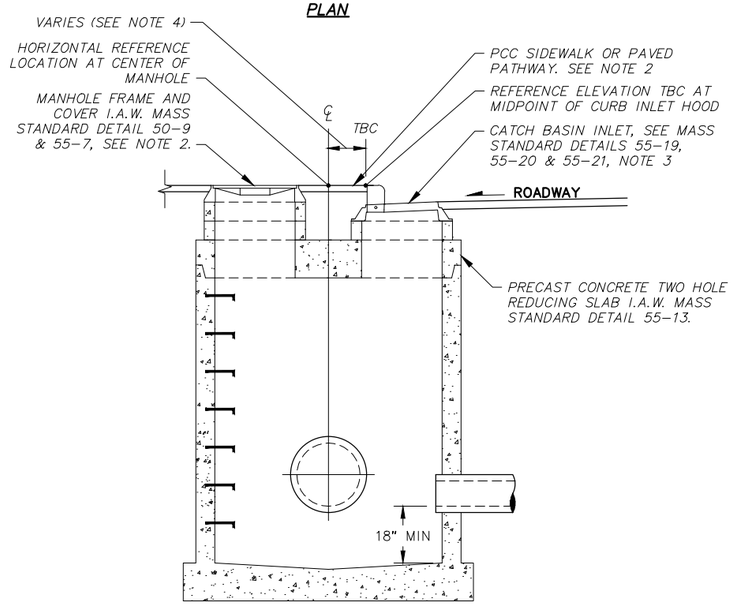
STORM DRAIN DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET SD6 of SD7

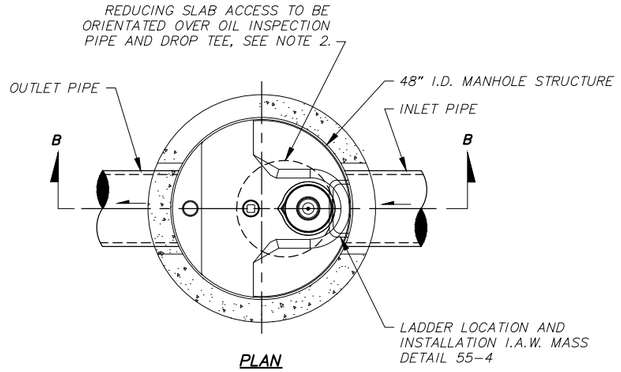
File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Storm Drain Details.dwg



PLAN



SECTION A-A



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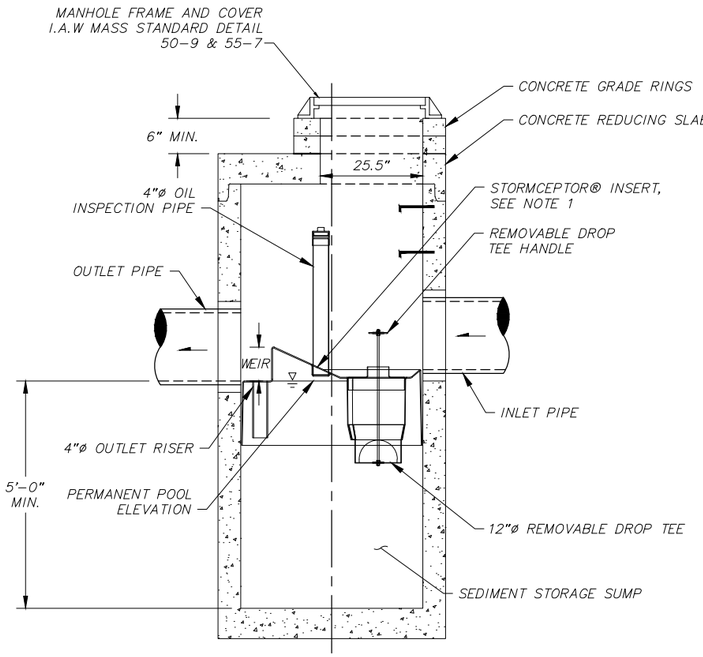
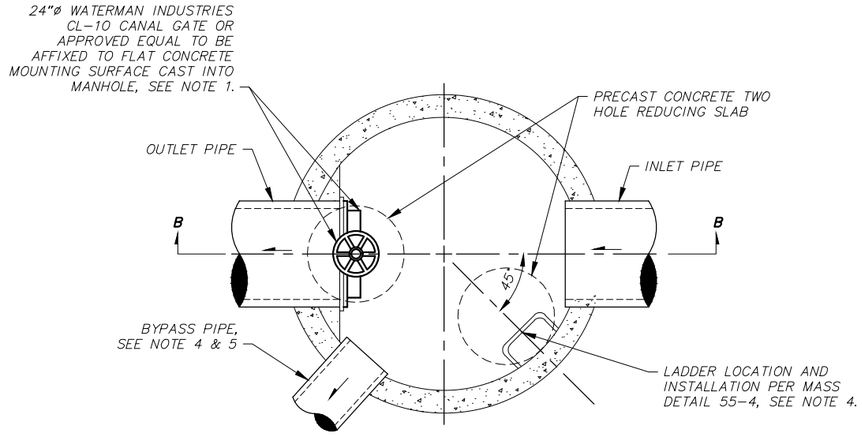
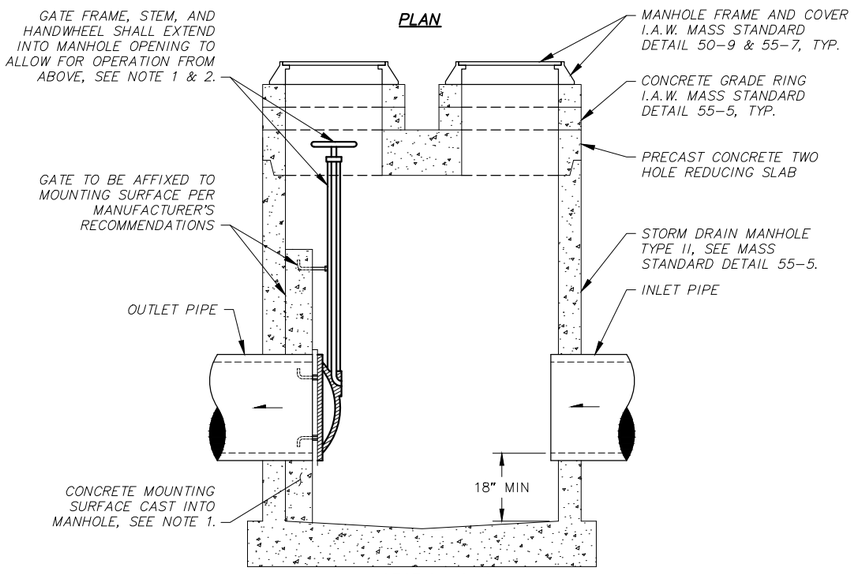


SECTION B-B



PLAN



SECTION C-C

TYPE II CATCH BASIN MANHOLE NOTES

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

1 TYPE II CATCH BASIN MANHOLE DETAIL

SCALE: NTS

OIL & GRIT SEPARATOR NOTES

1. OIL AND GRIT SEPARATOR (STRUCTURE OGS1-1 & 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.

2 OIL AND GRIT SEPARATOR DETAIL

SCALE: NTS

BYPASS MANHOLE NOTES

1. CAST CONCRETE MOUNTING SURFACE INTO MANHOLE SUCH THAT BYPASS GATE HANDWHEEL IS CENTERED IN ACCESS OPENING.
2. BYPASS GATE STEM SHALL BE NON-RISING TO POSITION HANDWHEEL AT CONVENIENT STATIC OPERATING ELEVATION FROM MANHOLE OPENING ABOVE.
3. BYPASS MANHOLE (STRUCTURE S1-2 & S3-5) SHALL BE PAID FOR UNDER PAY ITEM 55.05 CONSTRUCT (TYPE II) BYPASS MANHOLE.
4. BYPASS PIPE AND LADDER RUNGS NOT SHOWN IN SECTION C-C FOR CLARITY.
5. ADJUST LOCATION OF PIPE PENETRATION INTO MANHOLE FOR BYPASS PIPE AS REQUIRED TO AVOID CONFLICT WITH CONCRETE MOUNTING SURFACE.

3 BYPASS MANHOLE DETAIL

SCALE: NTS

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DATA	DRAWN BY	CHECKED BY
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TOPOGRAPHY	MS	BW
PROFILE	RB	ME
STORM SEWER	KY	JH
WATER/SANITARY SEWER	KY	RB
GAS	MS	BW
TELEPHONE	MS	BW
ELECTRIC	JH	TK
DESIGN	RB	ME
QUANTITIES	RB	ME
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MUNICIPAL/STATE	RB	ME

PLAN CHECK

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
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CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
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REVISIONS

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3940 ARCTIC BLVD. SUITE 300
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#AECL882-AK

CONSULTANT

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

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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

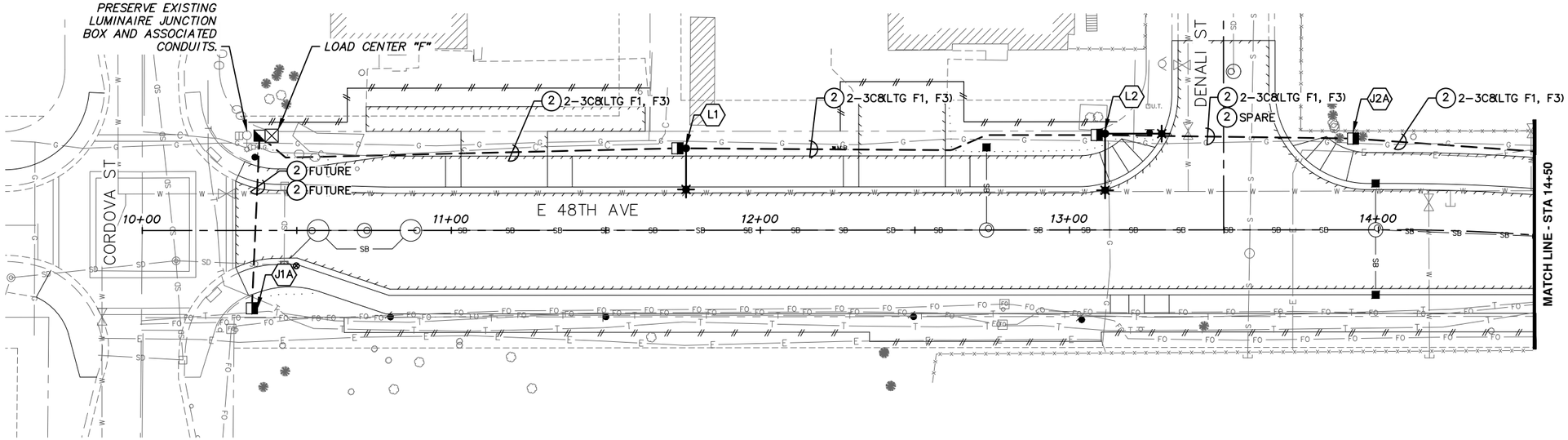
06-26 — 48TH AVENUE UPGRADES — CORDOVA STREET TO OLD SEWARD HIGHWAY — SCHED B

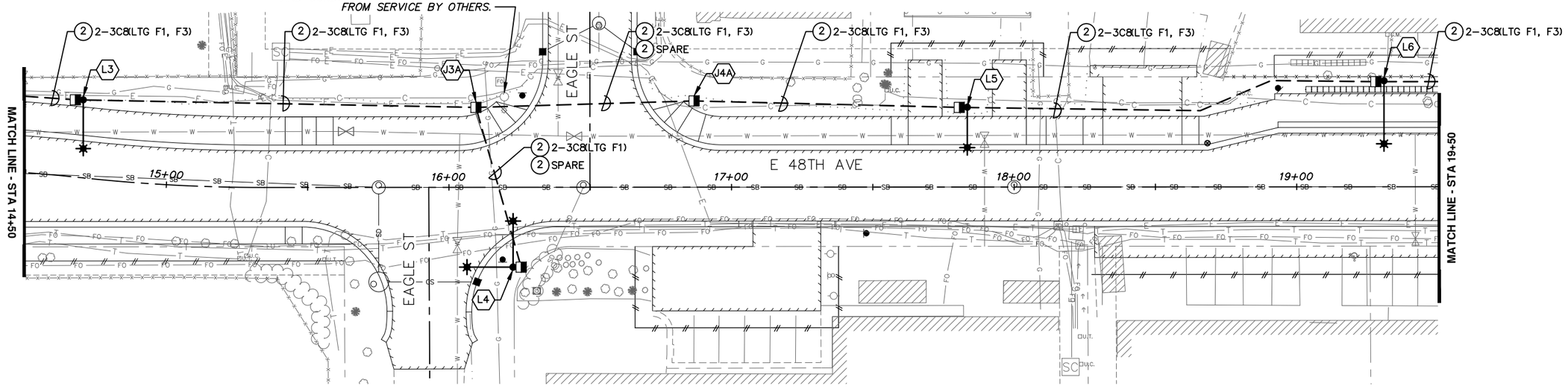
STORM DRAIN DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET SD7 of SD7

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\01 Civil\02 48th Avenue\10143.00 Storm Drain Details.dwg

SHEET NOTES:
1. SEE SHEET 13 FOR ILLUMINATION NOTES AND LEGEND.





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

PLAN CHECK

GRAPHIC SCALE 40' 20' 0 20' 40'

FIELD BOOKS	BM NO.	LOCATION	ELEV.
DESIGN CRW BOOK No. 161 & 186	GAAB-32	See MOA Benchmark Book, Page D-24	123.98
	CB-8C	See MOA Benchmark Book, Page D-24	135.32
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM GAAB 1972 ADJUST		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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

CONSULTANT

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

SEAL

MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES SCHED C
CORDOVA STREET TO OLD SEWARD HIGHWAY

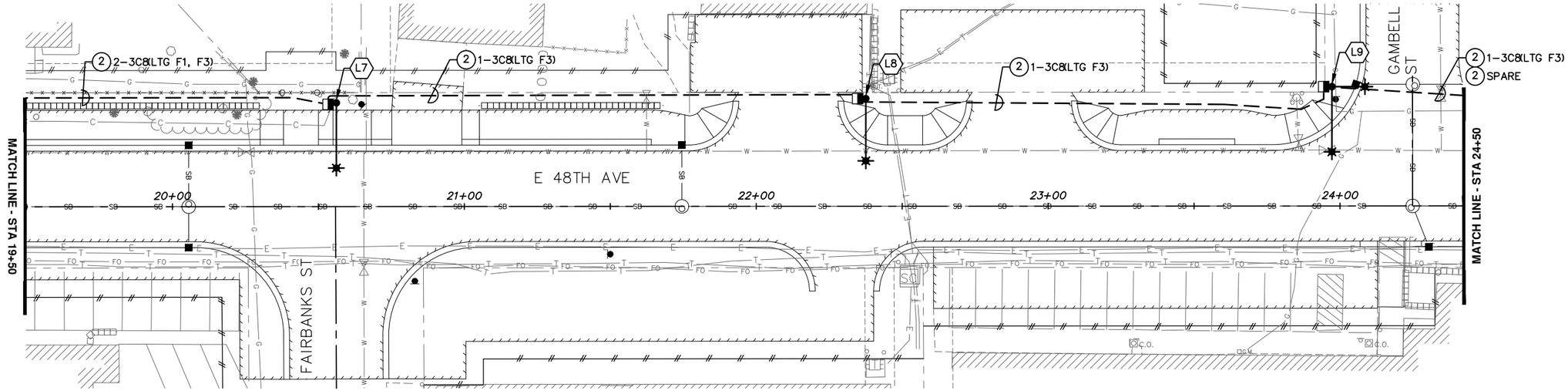
ILLUMINATION PLAN

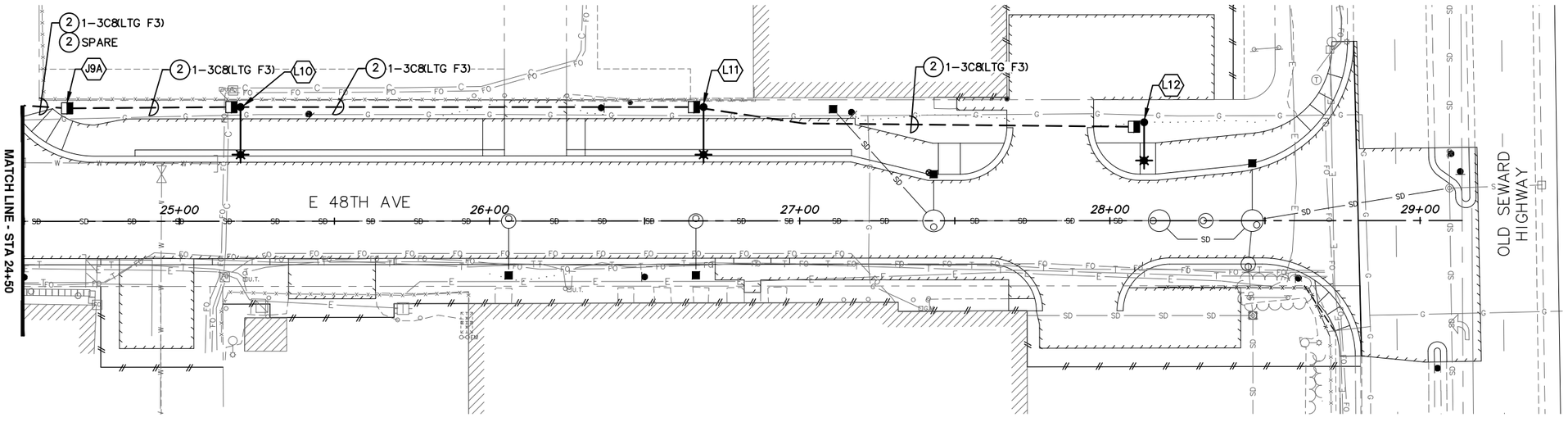
48TH AVENUE
BOP TO STA 19+50

SCALE HOR. 1"=20' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET 11 of 14

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\03 Electrical\10143.00 Illumination Plan.dwg

SHEET NOTES:
1. SEE SHEET 13 FOR ILLUMINATION NOTES AND LEGEND.





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STA 19+50 TO EOP

SCALE HOR. 1"=20'
VER. N/A
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET 12 of 14

File: J:\Jobs\Data\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\03 Electrical\10143.00 Illumination Plan.dwg

LUMINAIRE DEFINITION

TYPE	SYMBOL	MAKE	MODEL	LAMP	CCT*	DISTRIBUTION	VOLTAGE	COLOR	OPTIONS	MOUNT
ROADWAY	●—✳	GE	ERL1 & ERL2	SEE LUMINAIRE SCHEDULE	4000K	SEE LUMINAIRE SCHEDULE	240	GRAY	SEE LUMINAIRE SCHEDULE	MAST ARM

*CCT = CORRELATED COLOR TEMPERATURE

LIGHT LEVELS TABLE

LOCATION	*MOA REQUIRED MIN. AVERAGE ILLUMINANCE (FC)*	AVERAGE DESIGN ILLUMINANCE (FC)	*MOA REQUIRED MAXIMUM UNIFORMITY RATIO*	DESIGN UNIFORMITY RATIO	*MOA REQUIRED MAX. VEILING LUMINANCE RATIO*	DESIGN VEILING LUMINANCE RATIO
48TH AVE	*0.9*	1.1	*4.0:1*	3.6:1	*0.4*	0.4
48TH AVE/DENALI ST INTX	*1.4*	1.6	*6.0:1*	3.2:1	–	–
48TH AVE/EAGLE ST INTX	*1.4*	1.6	*6.0:1*	4.1:1	–	–
48TH AVE/FAIRBANKS ST INTX	*1.4*	1.6	*6.0:1*	3.9:1	–	–
48TH AVE/GAMBELL ST INTX	*1.4*	1.7	*6.0:1*	2.4:1	–	–
PEDESTRIAN FACILITIES	*0.5*	0.7	*4.0:1*	3.6:1	–	–

NOTES:
1. MOA REQUIREMENTS ARE FROM 2007 DCM CHAPTER 5 FOR A COLLECTOR ROADWAY WITH MEDIUM PEDESTRIAN CONFLICT (MEDIUM DENSITY RESIDENTIAL). ALL INTERSECTIONS ARE CLASSIFIED AS LOCAL/LOCAL INTERSECTIONS BASED ON CURRENT AND PROJECTED ADT.
2. LIGHT LOSS FACTOR (LLF) = 0.85.
3. MOUNTING HEIGHTS ARE 30'.

ROADWAY LUMINAIRE SCHEDULE

POLE	STATION	OFFSET	SHAFT LENGTH	MAST ARM LENGTH	LUMENS	DISTRIBUTION	CIRCUIT	OPTIONS
L1	11+76.0	26.50 LT	27'	12'	6000	TYPE 2 MEDIUM	F1	7–PIN RECP, HSS
L2	13+11.6	31.14 LT	25'	17'*	10000	TYPE 2 MEDIUM	F1	7–PIN RECP, HSS
				16'	10000	TYPE 2 MEDIUM	F1	7–PIN RECP, HSS
L3	14+67.7	27.50 LT	25'	16'	14000	TYPE 2 MEDIUM	F1	7–PIN RECP, HSS
L4	16+22.7	28.26 RT	26'	15'*	6000	TYPE 2 MEDIUM	F1	7–PIN RECP
				15'	18000	TYPE 3 MEDIUM	F1	7–PIN RECP
L5	17+83.5	27.50 LT	26'	13'	10000	TYPE 2 MEDIUM	F1	7–PIN RECP, HSS
L6	19+30.9	37.55 LT	24'	21'	10000	TYPE 2 MEDIUM	F1	7–PIN RECP, HSS
L7	20+56.2	35.50 LT	24'	21'	16000	TYPE 3 MEDIUM	F1	7–PIN RECP
L8	22+37.6	36.85 LT	24'	20'	14000	TYPE 2 MEDIUM**	F3	7–PIN RECP
L9	23+97.3	40.83 LT	28'	10'*	6000	TYPE 2 MEDIUM	F3	7–PIN RECP
				21'	14000	TYPE 3 MEDIUM	F3	7–PIN RECP
L10	25+19.8	36.78 LT	26'	14'	10000	TYPE 2 MEDIUM	F3	7–PIN RECP
L11	26+69.0	36.69 LT	26'	14'	10000	TYPE 2 MEDIUM	F3	7–PIN RECP
L12	28+11.1	31.69 LT	27'	11'	10000	TYPE 2 MEDIUM	F3	7–PIN RECP

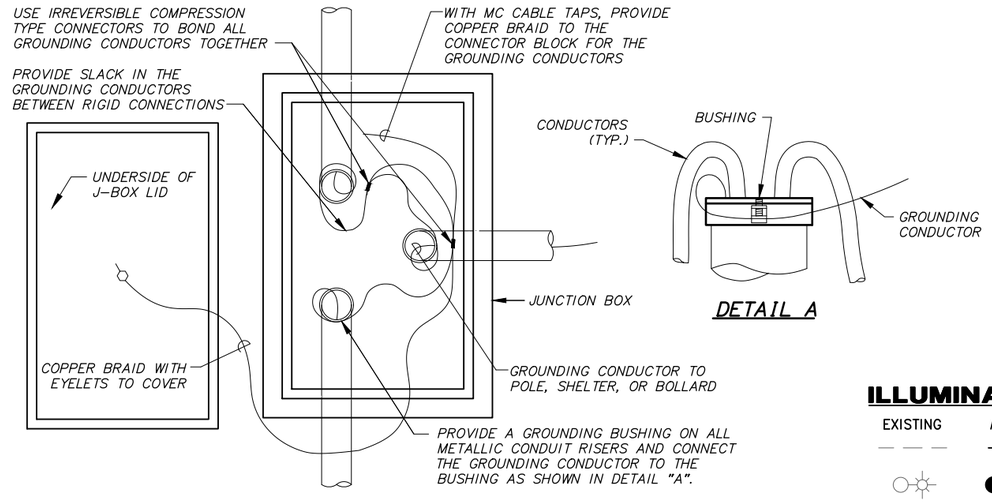
NOTES:
OPTIONS: 7–PIN RECEPTACLE REQUIRED FOR ALL FIXTURES. HSS = HOUSE–SIDE SHIELD.
* = PARALLEL TO E 48TH AVE.
** = ENHANCED BACKLIGHT DISTRIBUTION, GE "ERL...E540" OR APPROVED EQUAL

JUNCTION BOX SCHEDULE

J–BOX	TYPE	CIRCUIT	STATION	OFFSET
J1A	1A	–	10+35.4	25.15 RT
J2A	1A	F1, F3	13+91.9	29.52 LT
J3A	1A	F1, F3	16+09.6	28.31 LT
J4A	1A	F1, F3	16+86.8	30.55 LT
J9A	1A	F3	24+63.8	36.42 LT

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

ILLUMINATION NOTES:
1. *PROVIDE HOT DIP GALVANIZED STEEL POLES WITH MAST ARMS PER MOA STANDARDS DETAIL 80–19 AND 80–20, RESPECTIVELY.*
2. *ALL LUMINAIRE POLE FOUNDATIONS SHALL BE DRIVEN PILE UNLESS OTHERWISE NOTED ON THE DRAWINGS. PILE EMBEDMENT DEPTH SHALL BE 15' MINIMUM. LUMINAIRE POLE FOUNDATION SHALL BE LOCATED A MINIMUM OF 3 FEET FROM BACK OF SIDEWALK/PATHWAY OR A MINIMUM OF 7 FEET FROM BACK OF CURB. WHEN POLE LOCATION IS WITHIN 10' OF A UTILITY, EXCAVATE A HOLE TO 12" BELOW ANTICIPATED UTILITIES DEPTH WITH A VACTOR TRUCK BEFORE DRIVING PILE. THIS WORK SHALL BE INCIDENTAL TO THE SECTION 80.04 PAY ITEM. SEE MASS DETAIL 80–13. CONTRACTOR SHALL STAKE LUMINAIRE POLE LOCATIONS IN THE FIELD FOR ENGINEERS REVIEW AND APPROVAL PRIOR TO INSTALLATION OF PILES.*
3. *INSTALL THE POLES WITH FIXED BASES PER MOA DETAIL 80–21.*
4. *LUMINAIRES APPROVED FOR SUBSTITUTION SHALL PROVIDE THE LIGHT LEVELS AND UNIFORMITIES INDICATED IN THE LIGHT LEVELS TABLE.*
5. *PROVIDE THE POLE SHAFT LENGTHS AND MAST ARM LENGTHS SHOWN IN THE ROADWAY LUMINAIRE SCHEDULE.*
6. *PROVIDE RIGID METAL CONDUIT (RMC) WITH A BARE, STRANDED COPPER GROUND FOR ALL RACEWAYS. GROUND TO BE SIZED TO EQUAL LARGEST CONDUCTOR SIZE IN THE CONDUIT, MINIMUM #8 AWG.*
7. *PROVIDE ONE SPARE 2" RMC WITH PULL ROPE BETWEEN THE JUNCTION BOXES ADJACENT TO EVERY ROAD CROSSING.*
8. *PROVIDE A 3 CONDUCTOR CABLE FOR EACH BRANCH CIRCUIT. SIZE AS SHOWN ON THE DRAWINGS.*
9. *INSTALL THE JUNCTION BOX WITHIN 3' OF THE POLE OR LOAD CENTER. DO NOT INSTALL JUNCTION BOXES IN SIDEWALKS, PATHWAYS, TRAILS, OR DRAINAGE DITCHES. JUNCTION BOXES INSTALLED BEHIND SIDEWALKS, PATHWAYS OR TRAILS SHALL HAVE A MINIMUM SETBACK OF 2' AND BE PLACED BEHIND OR ON THE DOWN TRAFFIC SIDE OF FOUNDATIONS.*
10. *IN THE DRAWINGS, EACH JUNCTION BOX HAS THE SAME IDENTIFYING NUMBER AS THE LIGHT POLE OR LOAD CENTER NEXT TO IT. FOR JUNCTION BOXES LOCATED BETWEEN POLES, THE IDENTIFYING NUMBER INCLUDES THE SMALLER OF THE TWO POLE NUMBERS BETWEEN WHICH THE JUNCTION BOX IS LOCATED AND AN "A" SUFFIX.*



1 JUNCTION BOX GROUNDING DETAIL
NTS

ONLY GROUNDING CONDUCTORS ARE SHOWN FOR CLARITY

ILLUMINATION LEGEND

EXISTING	*PROPOSED*	
— — —	— — —	CONDUIT/WIRE RUN BELOW GRADE
○—✳	●—✳	LUMINAIRE
◫	◧	TYPE 1A JUNCTION BOX
▨	◪	TYPE 2 JUNCTION BOX
▩	⊠	TYPE 1A LOAD CENTER

(2) 1–3C8(LTG T3)
(2): CONDUIT SIZE; # OF CABLES; # OF CONDUCTORS PER CABLE
1–3C8: SIZE OF CONDUCTORS
(LTG T3): TYPE OF CIRCUIT
CIRCUIT #

NEW CONDUIT/CONDUCTOR TAG

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CONSTRUCTION RECORD

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06–26 48TH AVENUE UPGRADES SCHED C
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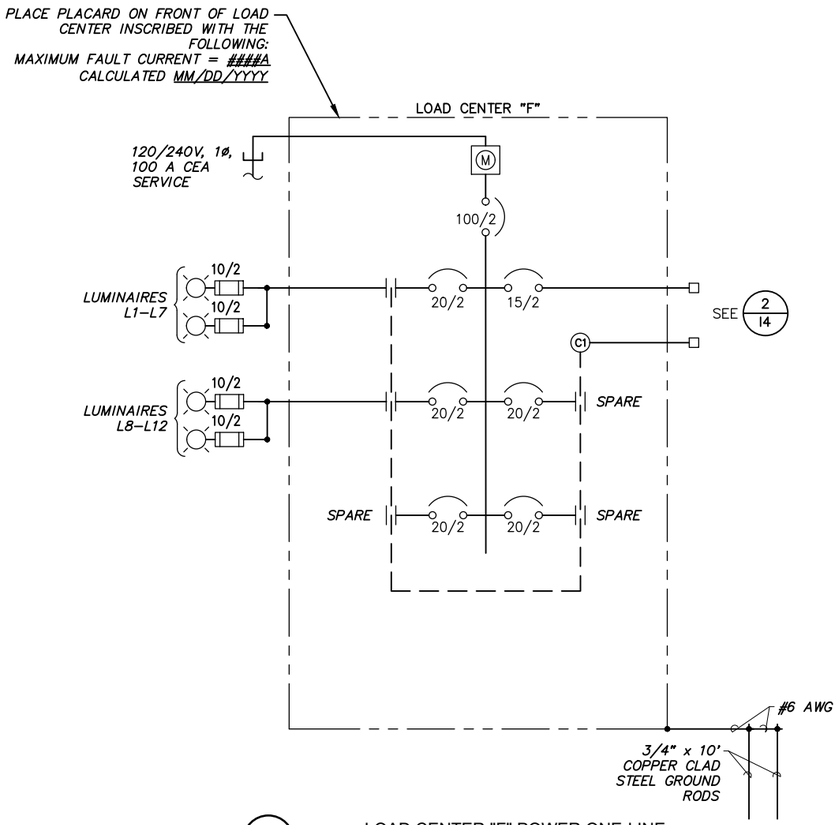
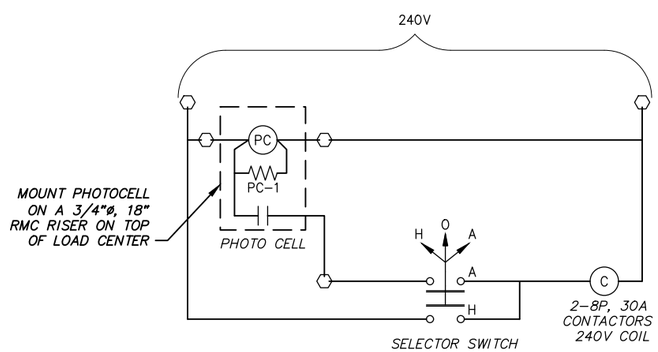
ILLUMINATION SCHEDULES AND DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET 13 of 14

File: J:\JobsData\10143.00 48th Ave And Cordova St Reconstruction\00 CADD\01 Working Set\03 Electrical\10143.00 Illumination Schedules.dwg



1 LOAD CENTER "F" POWER ONE-LINE
NTS



2 LOAD CENTER PHOTOELECTRIC CONTROL SCHEMATIC
NTS

LOAD CENTER NO. F TYPE: 1A

LOCATION: STATION – 10+41.9, OFFSET – 30.64 LT, 48TH AVE

2–8 POLE, 30 AMP CONTACTORS

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

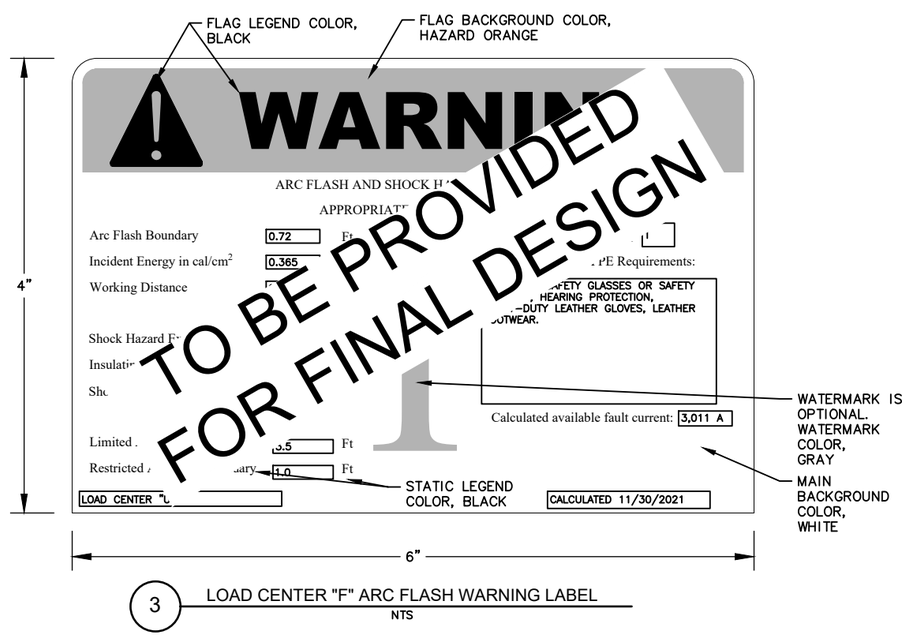
PANEL A 120/240 VOLTS SINGLE PHASE 3 WIRE

100 AMPS MAIN LUGS, 10,000 AMPS INTERRUPT CAPACITY

CKT.	CIRCUIT DESCRIPTION	KVA	AMP		AMP	KVA	CIRCUIT DESCRIPTION	CKT.
F1	LUMINAIRES L1–L7	0.8	20/2	1 N 2	15/2	0.2	PHOTOELECTRIC CONTROL	F2
F3	LUMINAIRES L8–L12	0.5	20/2	3 4	20/2		SPARE	F4
F5	SPARE		20/2	5 6	20/2		SPARE	F6
				7 8				
				9 10				
				11 12				
				13 14				
				15 16				
				17 18				
				19 20				

TOTAL CONNECTED LOAD = 1.5 KVA

TOTAL AMPS = 6.1 A



3 LOAD CENTER "F" ARC FLASH WARNING LABEL
NTS

VOLTAGE DROPS					
CIRCUIT	SIZE	LENGTH	VOLTAGE	CURRENT	V.D.
F1	#8 AWG	1080	240V	3.2	1.99%
F3	#8 AWG	1786	240V	2.1	2.16%

LOAD CENTER NOTES:

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

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06–26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED C

LC–F DETAILS AND SCHEDULES

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET 14 of 14

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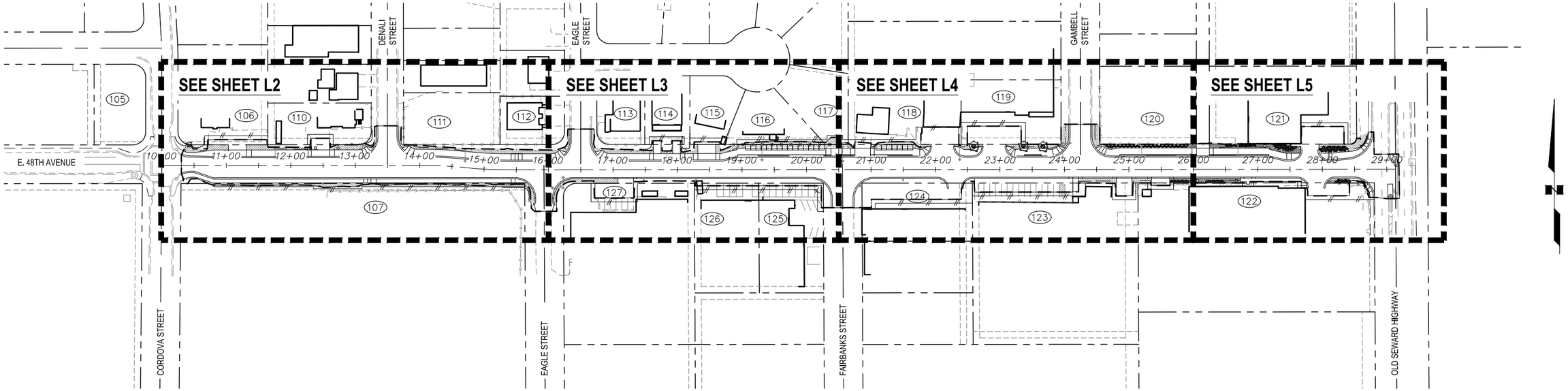

LANDSCAPE SCHEDULE

DECIDUOUS TREES

QTY.	SYMBOL	ABBR.	LATIN NAME	COMMON NAME	SIZE	FURNISHING	NOTES
3	+	BP	BETULA PAPYRIFERA	PAPER BIRCH	2" CAL.	B&B	SINGLE STEM

SHRUBS

QTY.	SYMBOL	ABBR.	LATIN NAME	COMMON NAME	SIZE	FURNISHING	NOTES
74		CL	COTONEASTER LUCIDUS	HEDGE COTONEASTER	24" HT.	POTTED	NOTES
47		PM	PINUS MUGO 'PUMILIO'	DWARF MUGO PINE	18" HT.	POTTED	NO NON-DWARF SUBSTITUTIONS SHALL BE ACCEPTED
12		PF	POTENTILLA FRUTICOSA	BUSH CINQUEFOIL	18" HT.	POTTED	NOTES

MISCELLANEOUS

QTY.	SYMBOL	DESCRIPTION	NOTES
		LANDSCAPE EDGING	ALUMINUM
		TREE RING, 5'Ø	SHOVEL CUT EDGE PER DETAIL 3/ L6
		4" TOPSOIL AND SCHEDULE A SEED MIX	
		4" MIN. DEPTH FILTER ROCK	

MISCELLANEOUS

QTY.	SYMBOL	DESCRIPTION	NOTES
		EXISTING DECIDUOUS TREE	
		EXISTING EVERGREEN TREE	
		EXISTING VEGETATION	
		COLORED, IMPRINTED CONCRETE (SEE CIVIL)	

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

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 TREE PLANTINGS IN SEEDED AREAS TO RECEIVE MIN. 18" DEPTH TOPSOIL AND MIN. 3" DEPTH SHREDDED BARK MULCH. PLACE MULCH IN A 5'Ø RING AROUND TREE TRUNKS UNLESS OTHERWISE NOTED.
7. ALL DISTURBED AREAS NOT WITHIN PLANTING BEDS SHALL RECEIVE 4" MINIMUM TOPSOIL AND SCHEDULE A SEED MIX TO LIMITS OF DISTURBANCE UNLESS OTHERWISE NOTED ON PLANS.
8. DO NOT APPLY HYDROSEEDING PRODUCT OR SEED MIX IN THE MULCHED AREA AROUND STEM OR TRUNK OF NEW PLANTINGS.
9. REFER TO SHEET L6 FOR LANDSCAPE PLANTING DETAILS.
10. ALL DECIDUOUS TREES SHALL RECEIVE MOOSE PROTECTION FENCING PER DETAIL 5/L6.
11. EXISTING VEGETATION TO BE SAVED AND PROTECTED SHALL RECEIVE PROTECTION FENCING AS NOTED IN DEMO PLANS.

RECORD DRAWING
1. DATA PROVIDED BY: _____ TITLE: _____
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COMPANY: _____ DATE: _____
BY: _____

PLAN CHECK

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

CONSTRUCTION RECORD

GRAPHIC SCALE 0 80 160 240 320

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

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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MUNICIPALITY OF ANCHORAGE

PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT

06-26 48TH AVENUE UPGRADES SCHED D
CORDOVA STREET TO OLD SEWARD HIGHWAY

LANDSCAPE SCHEDULE AND KEY PLAN

SCALE HOR. 1"=80' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET L1 of L6

File: P:\19-156 48th Ave And Cordova\2-CAD\Drawings\LA\19-156 48th Ave_PLAN.dwg

106

110

DENALI STREET

111

112

EXISTING VEGETATION TO REMAIN UNDISTURBED (TYP)

DMB

+00

11+00

12+00

13+00

14+00

15+00

16+

E. 48TH AVENUE

CORDOVA STREET

4" TOPSOIL AND SCHEDULE A SEED MIX TO LIMITS OF DISTURBANCE (TYP)

REMOVE INVASIVE PRUNUS PADUS. ALL OTHER VEGETATION TO BE PROTECTED IN PLACE.

107

EAGLE STREET

MATCHLINE STA. 16+00: SEE SHEET L3

RECORD DRAWING

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PLAN CHECK

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BASE		
TOPOGRAPHY		
PROFILE		
STORM SEWER		
WATER/SANITARY SEWER		
GAS		
TELEPHONE		
ELECTRIC		
DESIGN	MB	MK
QUANTITIES		
PRELIMINARY/FINAL		
MUNICIPAL/STATE		

GRAPHIC SCALE 0 20 40 60 80

CONSTRUCTION RECORD

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

VERTICAL DATUM

REV	DATE	DESCRIPTION	BY

REVISIONS

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06-26 48TH AVENUE UPGRADES SCHED D
CORDOVA STREET TO OLD SEWARD HIGHWAY

LANDSCAPE PLAN

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

GRID SW1831

DATE FEB 2022

STATUS 65%

SHEET L2 of L6

File:P:\19-156 48th Ave And Cordova\2-CAD\Drawings\LA\19-156 48th Ave_PLAN.dwg

MATCHLINE STA. 16+00: SEE SHEET L2

EXISTING VEGETATION TO REMAIN UNDISTURBED (TYP)

4" TOPSOIL AND SCHEDULE A SEED MIX TO LIMITS OF DISTURBANCE (TYP)

COLORED, IMPRINTED CONCRETE (SEE CIVIL)(TYP)

RETAINING WALL (SEE CIVIL) (TYP)

EAGLE STREET

E. 48TH AVENUE

16+00 17+00 18+00 19+00 20+00

113 114 115 116 117 126 125 127

FAIRBANKS STREET

MATCHLINE STA. 20+50: SEE SHEET L4

File:P:\19-156 48th Ave And Cordova\2-CAD\Drawings\LA\19-156 48th Ave_PLAN.dwg

RECORD DRAWING

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PROFILE		
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WATER/SANITARY SEWER		
GAS		
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DESIGN	MB	MK
QUANTITIES		
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MUNICIPAL/STATE		

PLAN CHECK

GRAPHIC SCALE 0 20 40 60 80

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DESIGN			
STAKING			
ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

CONSTRUCTION RECORD | VERTICAL DATUM

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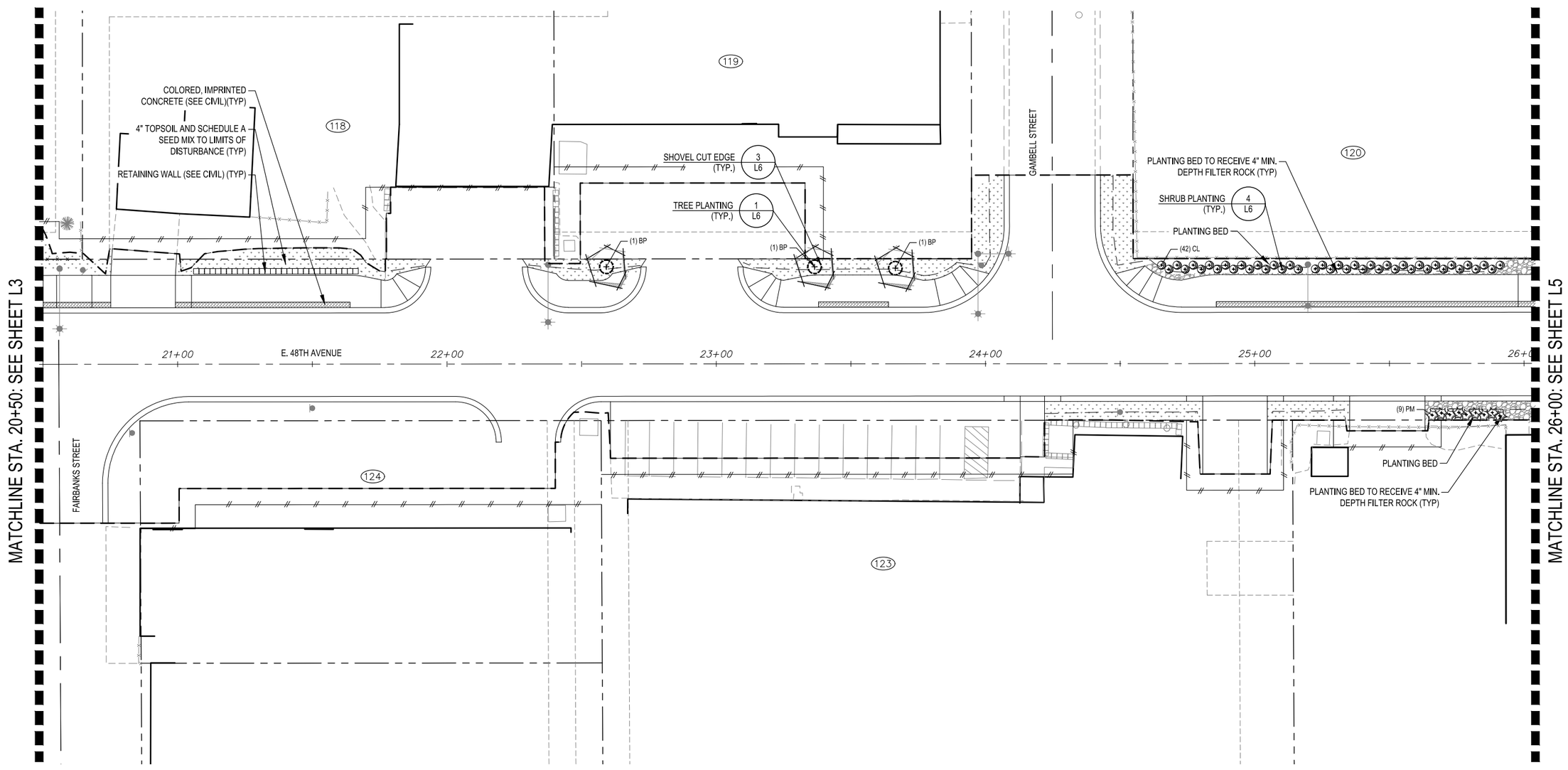
06-26 48TH AVENUE UPGRADES SCHED D
CORDOVA STREET TO OLD SEWARD HIGHWAY

LANDSCAPE PLAN

SCALE HOR. 1"=20' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET L3 of L6



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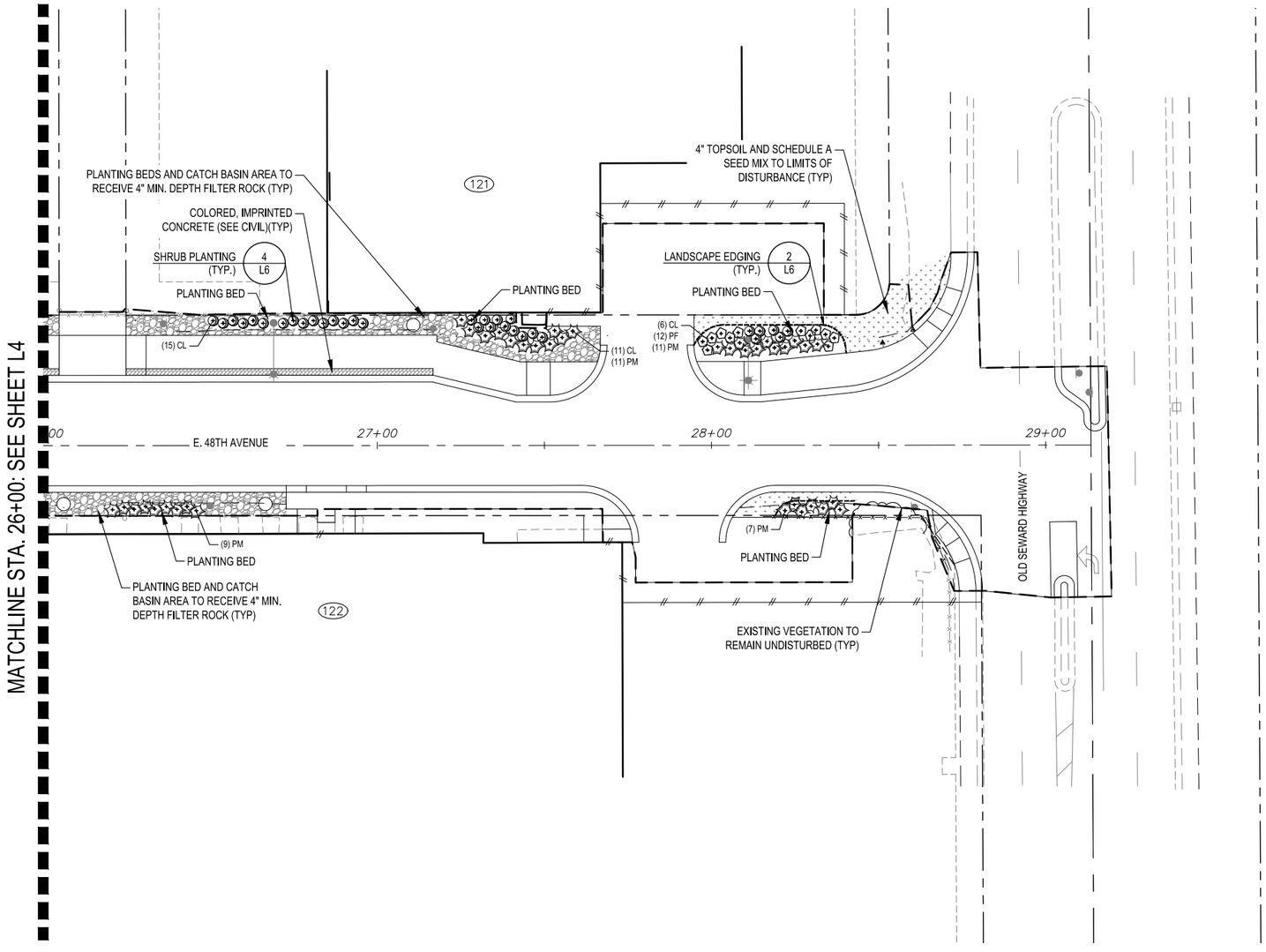
CORDOVA STREET TO OLD SEWARD HIGHWAY

LANDSCAPE PLAN

SCALE HOR. 1"=20' VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET L4 of L6

File:P:\19-156 48th Ave And Cordova\2-CAD\Drawings\LA\19-156 48th Ave_PLAN.dwg



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CONSTRUCTION RECORD

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DESIGN			
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ASBUILT			
CONTRACTOR	BASIS OF THIS DATUM		
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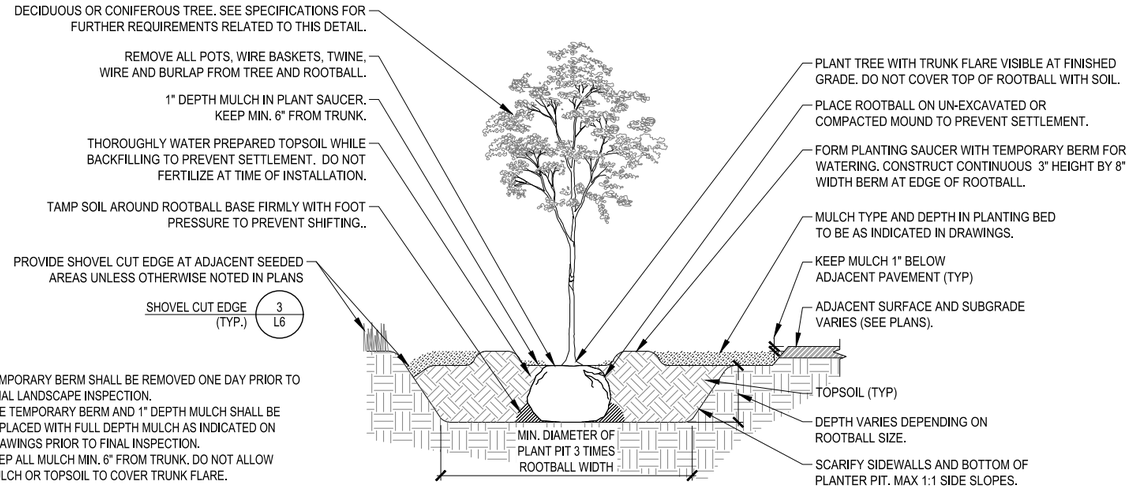
LANDSCAPE PLAN

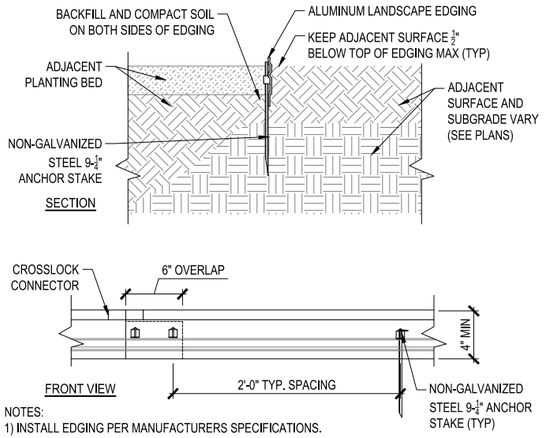
SCALE HOR. 1"=20'
VER. N/A
GRID SW1831
DATE FEB 2022
STATUS 65%
SHEET L5 of L6

File:P:\19-156 48th Ave And Cordova\2-CAD\Drawings\LA\19-156 48th Ave_PLAN.dwg



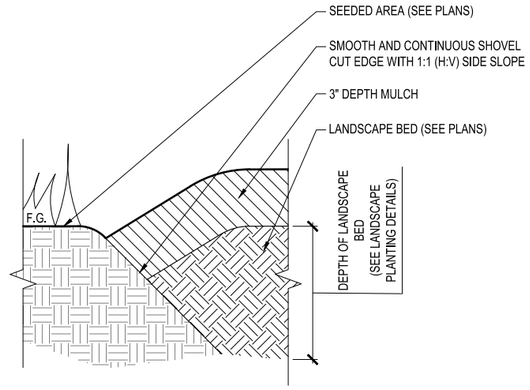
NOTES:
1. TEMPORARY BERM SHALL BE REMOVED ONE DAY PRIOR TO FINAL LANDSCAPE INSPECTION.
2. THE TEMPORARY BERM AND 1" DEPTH MULCH SHALL BE REPLACED WITH FULL DEPTH MULCH AS INDICATED ON DRAWINGS PRIOR TO FINAL INSPECTION.
3. KEEP ALL MULCH MIN. 6" FROM TRUNK. DO NOT ALLOW MULCH OR TOPSOIL TO COVER TRUNK FLARE.

1/L6 TREE PLANTING
NTS

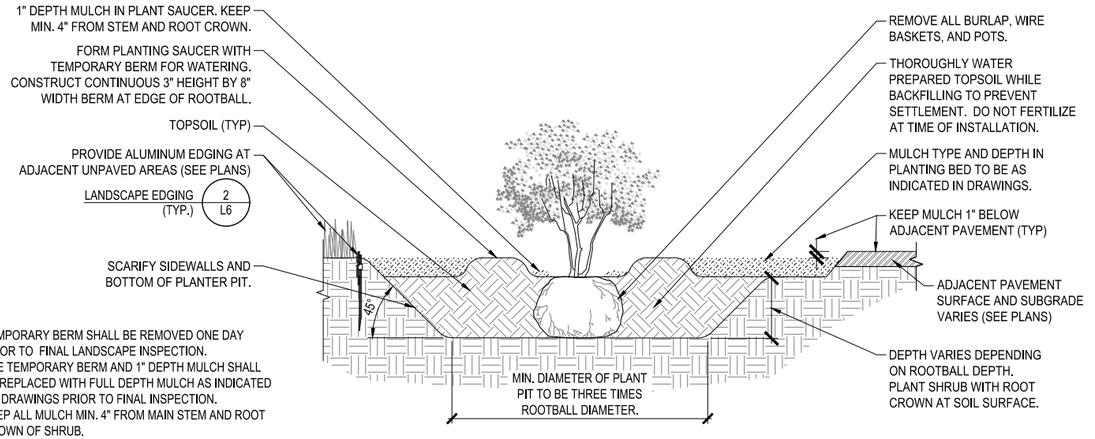


NOTES:
1) INSTALL EDGING PER MANUFACTURERS SPECIFICATIONS.

2/L6 LANDSCAPE EDGING
NTS

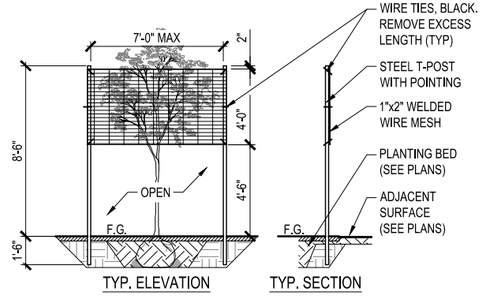


3/L6 SHOVEL CUT EDGE
NTS



NOTES:
1. TEMPORARY BERM SHALL BE REMOVED ONE DAY PRIOR TO FINAL LANDSCAPE INSPECTION.
2. THE TEMPORARY BERM AND 1" DEPTH MULCH SHALL BE REPLACED WITH FULL DEPTH MULCH AS INDICATED ON DRAWINGS PRIOR TO FINAL INSPECTION.
3. KEEP ALL MULCH MIN. 4" FROM MAIN STEM AND ROOT CROWN OF SHRUB.

4/L6 SHRUB PLANTING
NTS



NOTES:
1. MOOSE PROTECTION FENCING REQUIRED AROUND ALL NEW DECIDUOUS TREES.
2. FOR INDIVIDUAL TREES, MIN. 3 POSTS REQUIRED PER TREE.
3. FOR TREE GROUPINGS, PLACE T-POSTS SO THAT MESH DOES NOT TOUCH BRANCHES.

5/L6 MOOSE PROTECTION FENCE
NTS

File:P:\19-156 48th Ave And Cordova\2-CAD\Drawings\LA\19-156 48th Ave_DETAILS.dwg

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PLAN CHECK

FIELD BOOKS	TBM NO.	LOCATION	ELEV.
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CONTRACTOR	BASIS OF THIS DATUM		
INSPECTOR			

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06-26 48TH AVENUE UPGRADES CORDOVA STREET TO OLD SEWARD HIGHWAY SCHED D

LANDSCAPE DETAILS

SCALE HOR. N/A VER. N/A | GRID SW1831 | DATE FEB 2022 | STATUS 65% | SHEET L6 of L6