


**VERIFY SCALES**

BAR IS ONE INCH ON ORIGINAL DRAWING

0  1"

IF NOT ONE INCH ON THIS SHEET, ADJUST SCALES ACCORDINGLY.

## PROJECT AREA THIS CONTRACT



MUNICIPALITY OF ANCHORAGE  
PROJECT MANAGEMENT AND  
ENGINEERING DEPARTMENT

# 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET

PM&amp;E PROJECT NO 21-22

## VICINITY MAP

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### ANCHORAGE, ALASKA

PREPARED BY:

 **KINNEY**  
ENGINEERING, LLC

3909 ARCTIC BLVD, SUITE 400  
ANCHORAGE, ALASKA 99503  
(907) 346-2373  
CERT. OF AUTH. NO.  
AECL 1102

APPROVED BY:

BRANDON TELFORD, P.E.  
MUNICIPAL ENGINEER







### PLAN LEGEND

EXISTING	PROPOSED	
		SMALL ELECTRICAL/ TELEPHONE MANHOLE
		LARGE ELECTRICAL/ TELEPHONE MANHOLE JUNCTION BOX
		(TRAFFIC)
		CABLE TV
		SINGLE PARKING METER
		DOUBLE PARKING METER
		UNDERGROUND ELECTRIC PEDESTAL UNDERGROUND
		TELEPHONE PEDESTAL
		ELECTRIC METER
		ELECTRIC OUTLET
		GUY ANCHOR
		GUY POLE
		UTILITY POLE
		JOINT USE POWER AND TELEPHONE POLE
		GAS VALVE
		GAS METER
		STORM DRAIN CATCH BASIN MANHOLE
		STORM DRAIN MANHOLE
		CATCH BASIN
		SANITARY SEWER MANHOLE
		SANITARY SEWER CLEANOUT
		SEWER SERVICE CONNECT
		DRYWELL
		KEY BOX/WATER VALVE
		FIRE HYDRANT
		INSULATION BOARD
		CULVERT
		UNDERGROUND STORM DRAIN OR SUBDRAIN LINE
		PERFORATED SUBDRAIN PIPE
		FOOTING DRAIN SERVICE
		UNDERGROUND ELECTRIC LINE
		UNDERGROUND GAS LINE
		UNDERGROUND SANITARY SEWER LINE
		UNDERGROUND TELEPHONE LINE
		TELEPHONE LINE (OVERHEAD)
		UNDERGROUND TRAFFIC LINE
		UNDERGROUND WATER LINE
		ELECTRIC LINE (OVERHEAD)
		CABLE TV LINE
		CABLE TV LINE (OVERHEAD)
		UNDERGROUND FIBER OPTIC LINE
		ELECTRIC & TELEPHONE (OVERHEAD)
		OVERHEAD BANNER

CALL BEFORE YOU DIG

THE CONTRACTOR SHALL NOTIFY ALL AREA UTILITY COMPANIES PRIOR TO COMMENCEMENT OF EXCAVATION. THE FOLLOWING IS A PARTIAL LIST:

LOCATE CALL CENTER OF ALASKA: 278-3121

(INCLUDES AT&T, AWWU, CEA, ENSTAR, TESORO ALASKA PIPELINE, GCI, ACS, TRAFFIC SIGNALS, MOA & DOT&PF STORM/STREETS.)


### PLAN LEGEND

<u>EXISTING</u>	<u>PROPOSED</u>	
		EASEMENT LINE
		CENTERLINE
		CONSTRUCTION CENTERLINE
		PROPERTY LINE
		EDGE OF PAVEMENT
		TYPE 1 CURB AND GUTTER
		TYPE 2 CURB AND GUTTER
		CONCRETE SIDEWALK
		DETECTABLE WARNING TILE
		TEMPORARY CONSTRUCTION PERMIT / EASMENT
		GRAVEL ROADWAY OR DRIVEWAY
		FENCE
		TREE LINE
		C.I.P.P. LINING
		ABANDON PIPE
<u>EXISTING</u>	<u>PROPOSED</u>	
		BUILDING
		BUILDING CANTILEVER
		BOLLARD
		TREE C (Conifer)
		TREE D (Deciduous)
		MAILBOX / CLUSTER MAILBOX
		STREET SIGNS
		CURB RAMP
		DECORATIVE CONCRETE HATCH
<u>EXISTING</u>	<u>PROPOSED</u>	
		RETAINING WALL
		VALLEY GUTTER
		AC SWALE
		DRAINAGE ARROW
		CONTOURS
		BREAK LINE
		CUT LIMIT
		FILL LIMIT
		DITCH
		RADIUS TO TOP BACK OF CURB
		IRON PIN OR REBAR
		BRASS CAP MONUMENT
		ALUMINUM CAP MONUMENT
		PK NAIL, SPIKE OR CONCRETE NAIL TEMP.
		BENCH MARK
		BLOCK 41 DEVELOPMENT

## PROFILE LEGEND

EXISTING	PROPOSED	
		℄
		NORTH OR WEST PROPERTY LINE
		SOUTH OR EAST PROPERTY LINE
		PIPE
		MANHOLE (PAVING PROFILE ONLY)
		CATCH BASIN OR CATCH BASIN
		MANHOLE (PAVING PROFILE ONLY)
		GRADE AT ℄ OF PAVEMENT
		SANITARY SEWER LINE AND MANHOLE
		STORM DRAIN LINE AND STORM DRAIN MANHOLE
		MANHOLE/PIPE WITH C.I.P.P. LINER
		MANHOLE/PIPE TO BE REMOVED
		INSULATION BOARD
<b>SIGNAL AND LIGHTING PLAN LEGEND</b>		
EXISTING	PROPOSED	
		LOAD CENTER
		TRAFFIC SIGNAL CONTROLLER CABINET (WITH, WITHOUT VAULT)
		TYPE III JUNCTION BOX
		TYPE II JUNCTION BOX
		TYPE I/IA JUNCTION BOX
		TRANSFORMER
		SIGNAL HEAD
		SIGNAL HEAD WITH ARROW
		PEDESTRIAN SIGNAL HEAD
		PEDESTRIAN PUSH-BUTTON
		CONDUIT RUN
		CONNECTION BETWEEN EXISTING & NEW CONDUIT
		DETECTION LOOP
		JUNCTION BOX #
		SIGNAL POLE
		PEDESTRIAN SIGNAL POLE
		REFERENCE TO SIGNALIZATION NOTE #
		OPTICOM DETECTOR WITH CONFIRMATION LIGHT
		STREET OR SIGNAL LUMINAIRE
		PEDESTRIAN LUMINAIRE
		PAN, TILT, AND ZOOM CAMERA
		LANDSCAPE LIGHTING

## ABBREVIATIONS

ABBR.	DESCRIPTION	ABBR.	DESCRIPTION
A.C.	ASPHALTIC CEMENT	MH	MANHOLE
ADA	AMERICANS WITH DISABILITIES ACT OF 1990	MIL	MILLIMETER
AFD	ANCHORAGE FIRE DEPARTMENT	MIN	MINIMUM
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ML&P	MUNICIPAL LIGHT & POWER
APPROX	APPROXIMATE	MMA	METHYL METHACRYLATE
A.S.A.P.	AS STEEP AS PRACTICAL	MOA	MUNICIPALITY OF ANCHORAGE
AVE	AVENUE	MON	MONUMENT
AWWU	ANCHORAGE WATER AND WASTEWATER UTILITY	MSL	MEAN SEA LEVEL
BFM	SOIL STABILIZATION (BONDED FIBER MATRIX)	N	NORTH
BOP	BEGINNING OF PROJECT / BOTTOM OF PIPE	NE	NORTHEAST
BM	BENCH MARK	N/A	NOT APPLICABLE
B.R.	BIKE RAMP #	N.I.C.	NOT IN CONTRACT
B.V.	BUTTERFLY VALVE	NOM.	NOMINAL
C&G	CURB & GUTTER	NTS	NOT TO SCALE
CB	CATCH BASIN	NW	NW
CBMH	CATCH BASIN MANHOLE	NWT	NO WATER TABLE ENCOUNTERED
CC	CURB CUT	OC	ON CENTER
CEA	CHUGACH ELECTRIC ASSOCIATION	OGS	OIL AND GRIT SEPARATOR
C.I.P.P.	CURED-IN-PLACE PIPE	OSHA	OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
C/L, $\bar{C}$	CENTERLINE	PCC	PORTLAND CEMENT CONCRETE
CMP	CORRUGATED METAL PIPE	PC	POINT OF CURVATURE
CONST.	CONSTRUCT	PCMP	PRECAST CORRUGATED METAL PIPE
CH	CHORD. HORIZONTAL CURVE	PED.	PEDESTRIAN
CJ	CONTROL JOINT	PGL	PROFILE GRADE LINE
CPEP	CORRUGATED POLYETHYLENE PIPE	PI	POINT OF INTERSECTION
C.R.#	CURB RAMP #	PL, $\bar{P}$	PROPERTY LINE
C.T.V.	CABLE TELEVISION	P.M.	PARKING METER
CU	COPPER	P.U.E.	PUBLIC USE EASEMENT
DCPM	AWWU DESIGN & CONSTRUCTION PRACTICES MANUAL	P.R.C.	POINT OF REVERSE CURVATURE
DEMO	DEMOLITION	P.S.I.	POUNDS PER SQUARE INCH
DESC.	DESCRIPTION	P.S.T.	PERFORATED STEEL TUBE
DIA/ $\phi$	DIAMETER	PT	POINT OF TANGENCY
DIP	DUCTILE IRON PIPE	PVC	POINT OF VERTICAL CURVE
DOT&PF	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES	PVI	POINT OF VERTICAL INTERSECTION
DTL.	DETAIL	PVM'T	PAVEMENT
DW	DETECTABLE WARNING PANELS	PVT	POINT OF VERTICAL TANGENCY
DWY	DRIVEWAY	R	RADIUS
D/W CC	DRIVEWAY CURB CUT	R & R	REMOVE AND REPLACE / RELOCATE / RE-SET
EOP	END OF PROJECT / EDGE OF PAVEMENT	R.A.P.	RECYCLED ASPHALT PAVEMENT
EP	EDGE OF PAVEMENT	REF.	REFERENCE
EL/ELEV.	ELEVATION	ROW	RIGHT-OF-WAY
E	EASEMENT LINE	RT / R	RIGHT
E	EAST	S	SOUTH
EJ	EXPANSION JOINT	SS	SANITARY SEWER
EST.	ESTIMATED	SD	STORM DRAIN
EX.	EXISTING	SSHCH	DOT&PF STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, INCLUDING SPECIAL MODIFICATIONS AND SPECIAL PROVISIONS
EXP.	EXPANSION	SDMH	STORM DRAIN MANHOLE
F.C.	FACE OF CURB	SE	SOUTHEAST
F&I	FURNISH AND INSTALL	S.E.	SUPERELEVATION
FIMH	FIELD INLET MANHOLE	SI	STREET INTERSECTION
FG	FINISHED GRADE	S.P.	SPECIAL PROVISION
FT	FOOT/FEET	SSMH	SANITARY SEWER MANHOLE
F.H.	FIRE HYDRANT	STA	STATION
F & G	FRAME & GRATE	STD	STANDARD
$\bar{f}$	FLOW LINE	STD DTL	STANDARD DETAIL FOUND IN M.A.S.S.
GB	GRADE BREAK	ST	STREET
GS	GROUND SHOT	STR	STRUCTURE
GV	GATE VALVE	SW	SOUTHWEST
HDPEP	HIGH DENSITY POLYETHYLENE PIPE	S/W	SIDEWALK
HOR.	HORIZONTAL	SWPPP	STORM WATER POLLUTION PREVENTION PLAN
I.A.W.	IN ACCORDANCE WITH	TBC	TOP BACK OF CURB
I/C	INTERCONNECT	T.B.	THRUST BLOCK
I.D.	IDENTIFICATION	TCP	TEMPORARY CONSTRUCTION PERMIT
INV.	INVERT	TCE	TEMPORARY CONSTRUCTION EASEMENT
JBER	JOINT BASE ELMENDORF-RICHARDSON	TOC	TOP OF CASTING
JBOX OR J.B.	JUNCTION BOX	TYP	TYPICAL
L.C.	LIP OF CURB OR LOAD CENTER	UON	UNLESS OTHERWISE NOTED
LF	LINEAR FOOT/FEET	VB	WATER VALVE BOX
LOC	LOCATION	VERT.	VERTICAL
LT / L	LEFT	W	WEST
M.A.S.S.	MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, STREETS-DRAINAGE-UTILITIES, 2015 EDITION, AS CURRENTLY AMENDED	W.T.	WATER TIGHT
MAX	MAXIMUM	(C)	CALCULATED
ME	MATCH EXISTING	(30')	DIMENSION FROM RECORD DRAWINGS
		W.T.	WATER TIGHT
			DETAIL AND SHEET NUMBER FOR DETAIL

<b>RECORD DRAWING</b>			<div><div>DATA</div><div>DRAWN BY</div><div>CHECKED BY</div></div>										<div><div>2010010</div><div>2010010</div><div>2010010</div><div>2010010</div><div>2010010</div></div>										<div><div><div><div><div></div><div>KINNEY</div><div>ENGINEERING, LLC</div></div><div>3908 ARCTIC BLVD, SUITE 400</div><div>ANCHORAGE, ALASKA 99503</div><div>(907) 346-2373</div><div>CERT. OF AUTH. NO.</div><div>AECL 1102</div></div><div><div>1/31/23</div><div>65% DESIGN</div><div>SUBMITTAL</div></div><div><div>1/31/2023</div><div>SEAL</div></div></div></div>										<div><div><div><div></div><div>MUNICIPALITY OF ANCHORAGE</div><div></div></div><div>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</div><div>PROJECT NO. 21--22</div><div>4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET</div><div>SCHEDULE A</div><div>LEGEND AND ABBREVIATIONS</div><div>SCALE</div><div>HOR. 1"=20'</div><div>VER. N/A</div><div>GRID 1230</div><div>STATUS: PRELIMINARY</div><div>DATE JAN '2023</div><div>SHEET</div><div>G3 of G9</div></div></div>																																																																																			
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: _____			BASE			KE			KE			TOPOGRAPHY			KE			KE			PROFILE			KE			KE			STORM SEWER			KE			KE			WATER/SANITARY SEWER			KE			KE			GAS			KE			KE			TELEPHONE/CABLE TV			KE			KE			ELECTRIC			KE			KE			DESIGN			KE			KE			QUANTITIES			KE			KE			PRELIMINARY/FINAL			KE			KE			MUN. FINAL CHECK			KE			KE		
PLAN CHECK									CONSTRUCTION RECORD									VERTICAL DATUM									REVISIONS									CONSULTANT									SEAL																																																																							





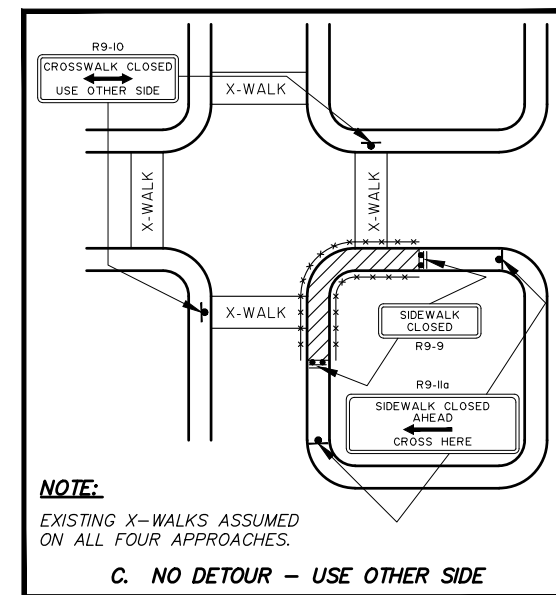
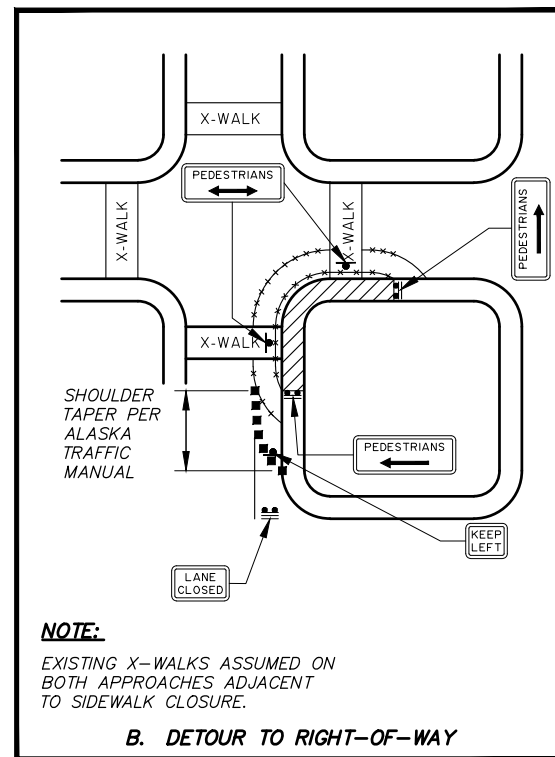
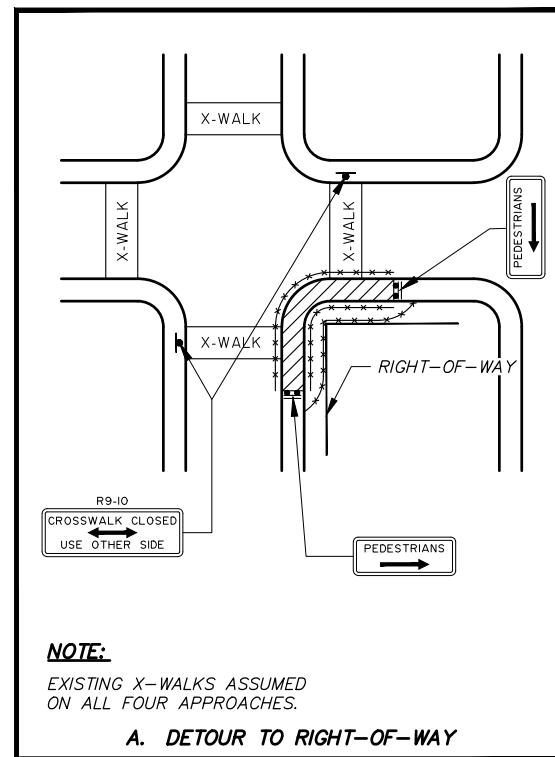






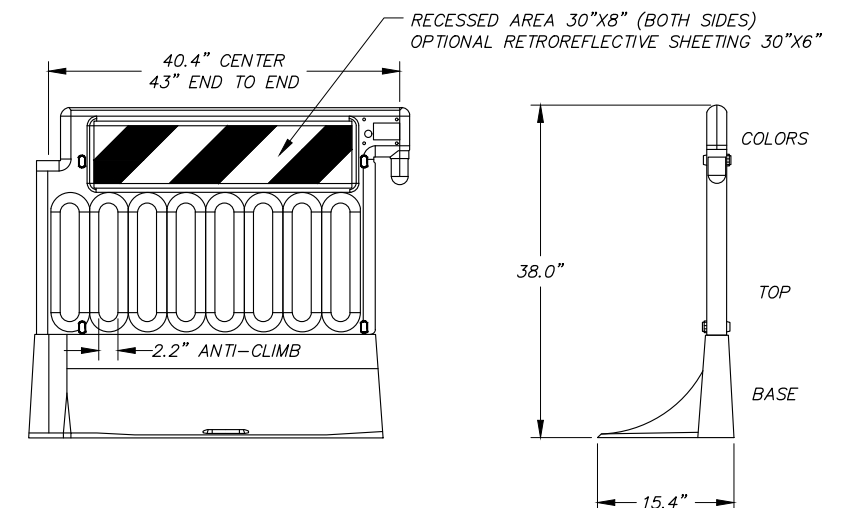
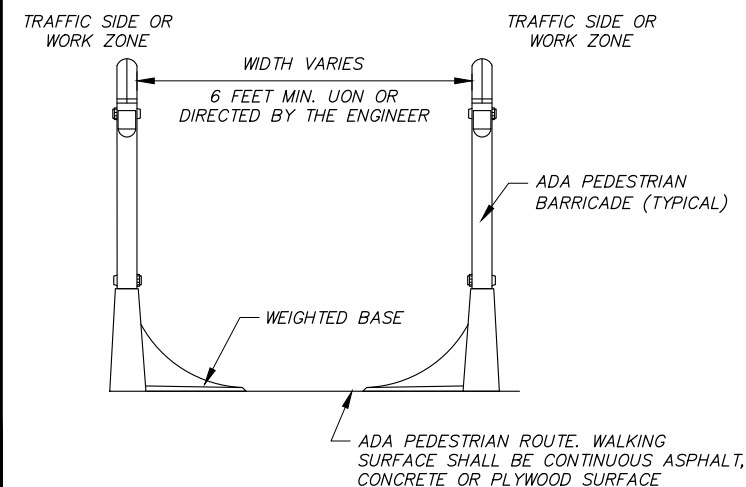
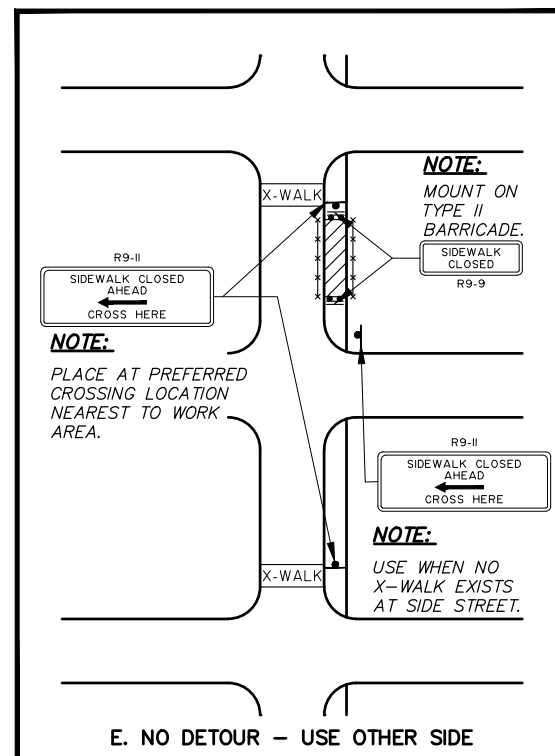
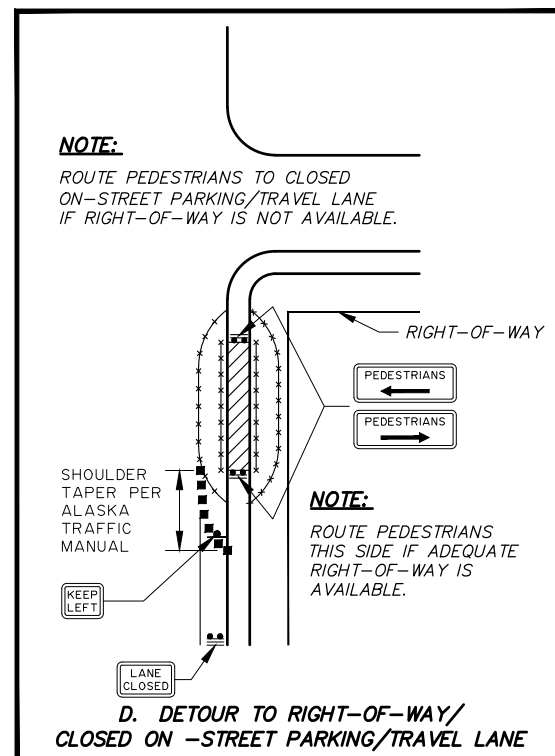
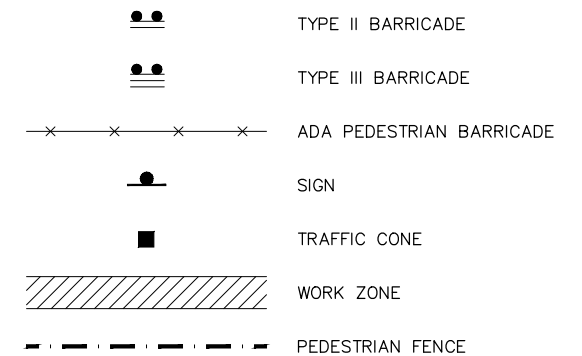






- NOTE:**
1. LETTER SIZES ARE 3" UPPER CASE, SERIES C.
  2. WHENEVER PEDESTRIAN TRAFFIC CONTROL DEVICES ARE NOT IN PLACE OR ARE REMOVED TEMPORARILY TO ACCOMMODATE CONSTRUCTION ACTIVITIES, THE CONTRACTOR SHALL PROVIDE A WORKER TO DIRECT PEDESTRIANS ALONG THE PROPER ROUTE.
  3. WHERE ROADWAYS ARE OPEN TO TRAFFIC USE WARNING LIGHTS IN ACCORDANCE WITH THE ALASKA TRAFFIC MANUAL DURING HOURS OF DARKNESS.
  4. OPENINGS IN CHANNELIZING DEVICES SHALL BE REQUIRED TO PROVIDE PEDESTRIAN ACCESS TO ADJACENT PROPERTIES.
  5. ALL SURFACES SHALL BE ASPHALT, CONCRETE OR PLYWOOD.
  6. SIDEWALKS ON ADJACENT SIDES OF THE ROAD WAY SHALL NOT BE CLOSED SIMULTANEOUSLY.

**LEGEND**



## 2 TYPICAL SIDEWALK CLOSURE AT MID-BLOCK LOCATIONS

**3** *TYPICAL SECTION PEDESTRIAN DETOUR*  
G7 NTS

4 *ADA PEDESTRIAN BARRICADE DETAIL*  
G7 NTS

[illegible]



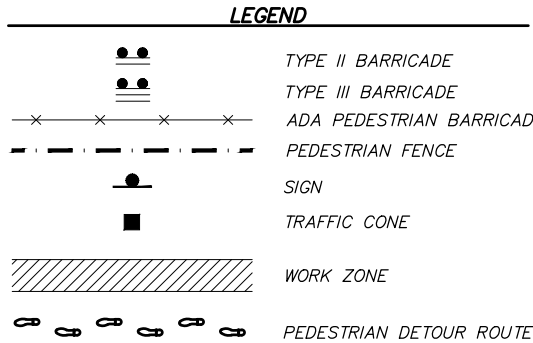


Diagram illustrating the assembly of a ramp structure with the following components and dimensions:

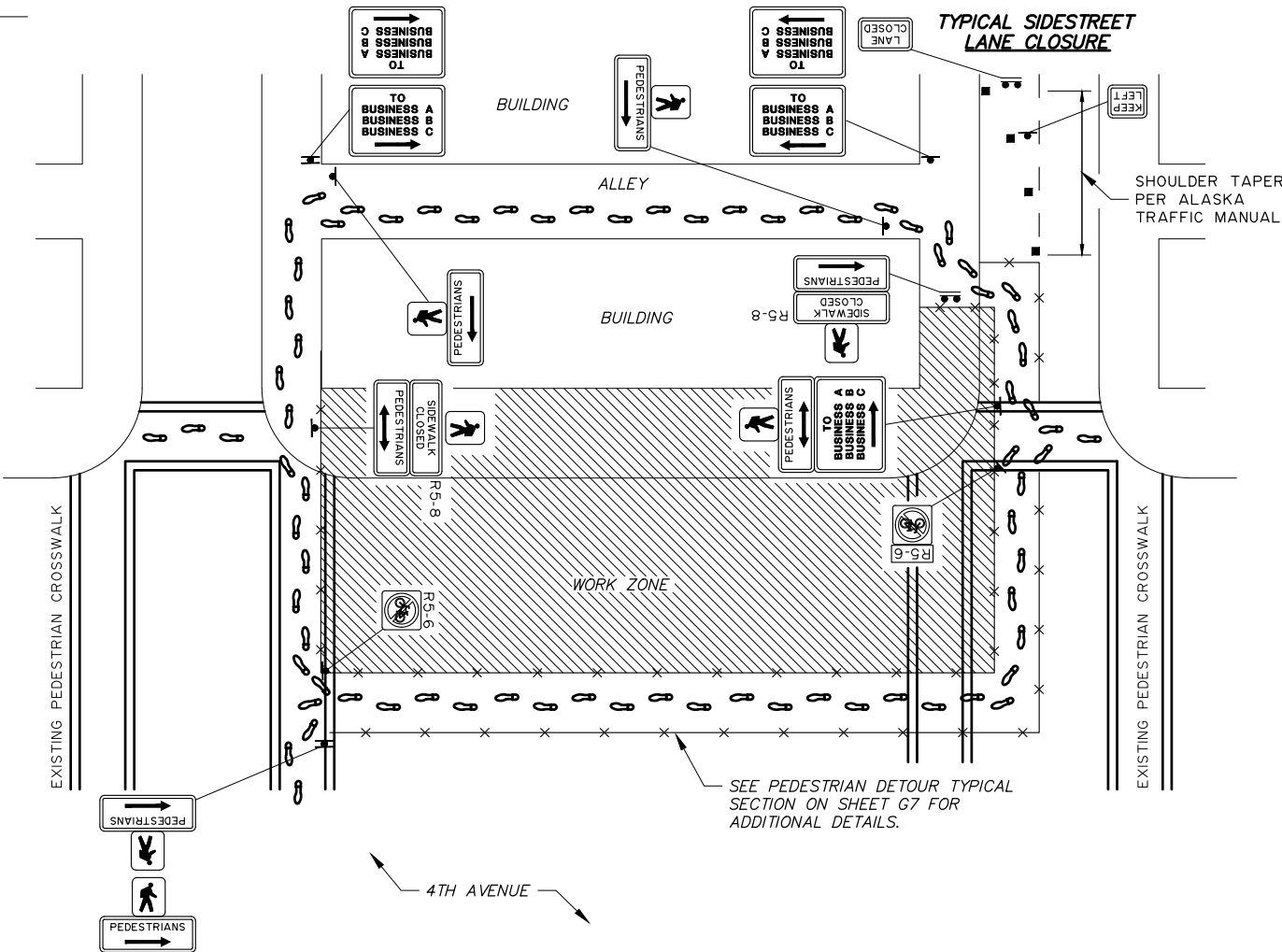
- 36" MIN.**: Minimum distance between vertical posts.
- 2"X6" WOOD HAND RAIL, ROUND OVER TOP EDGES TO ENSURE NO SPLINTERS**: Hand rail on the left side.
- 2"X4" MIN WOOD POST, PLACE 6' MAX O.C.**: Vertical support post on the left.
- 2"X4" EDGE PROTECTION**: Edge protection on the left.
- 1" THICK PLYWOOD**: Ramp surface material.
- WOOD SCREWS OR NAILS TYP**: Fasteners for the plywood.
- 2"X6" MIN. BOTTOM WOOD RAIL TYP**: Bottom rail on the right.
- 0%**: Slope indicator.

**NOTE:**

1. PROVIDE TEMPORARY PORTABLE ADA COMPLIANT PEDESTRIAN RAMP TO BRIDGE CONSTRUCTION WORK AND TO PROVIDE BUILDING ACCESS.
2. CONTRACTOR MAY SUBMIT AN ALTERNATE DESIGN FOR APPROVAL OR USE A PREFABRICATED ALUMINUM OR STEEL PORTABLE ADA PEDESTRIAN RAMP.
3. RAMP SHALL HAVE A MINIMUM 800 POUND WEIGHT CAPACITY, SKID RESISTANT WALKING SURFACE, 36" MINIMUM CLEAR WIDTH, HAND RAILS, AND A MAXIMUM 12H:1V SLOPE.



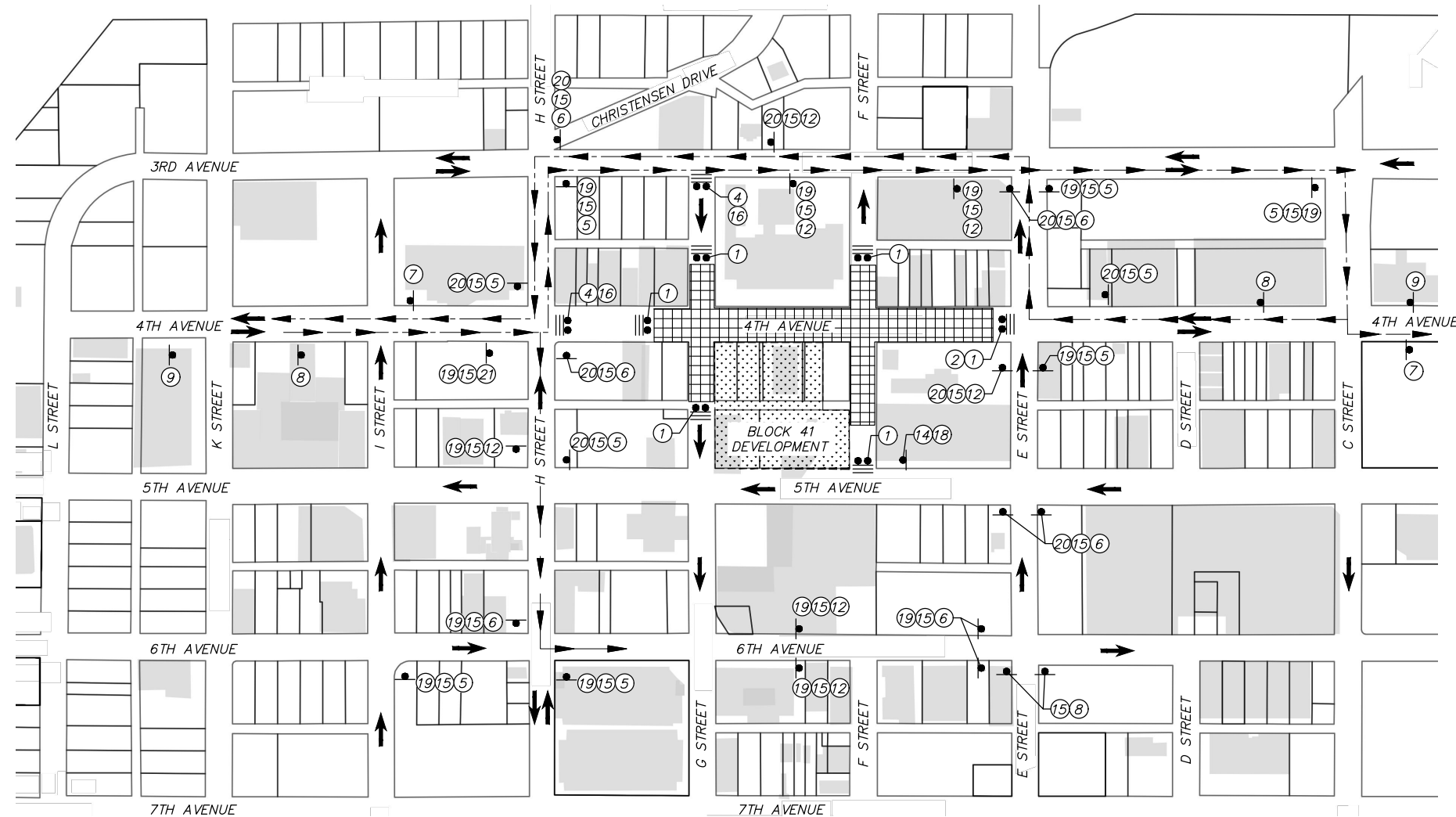
3 ACCESS TO BUSINESS/RESIDENCE



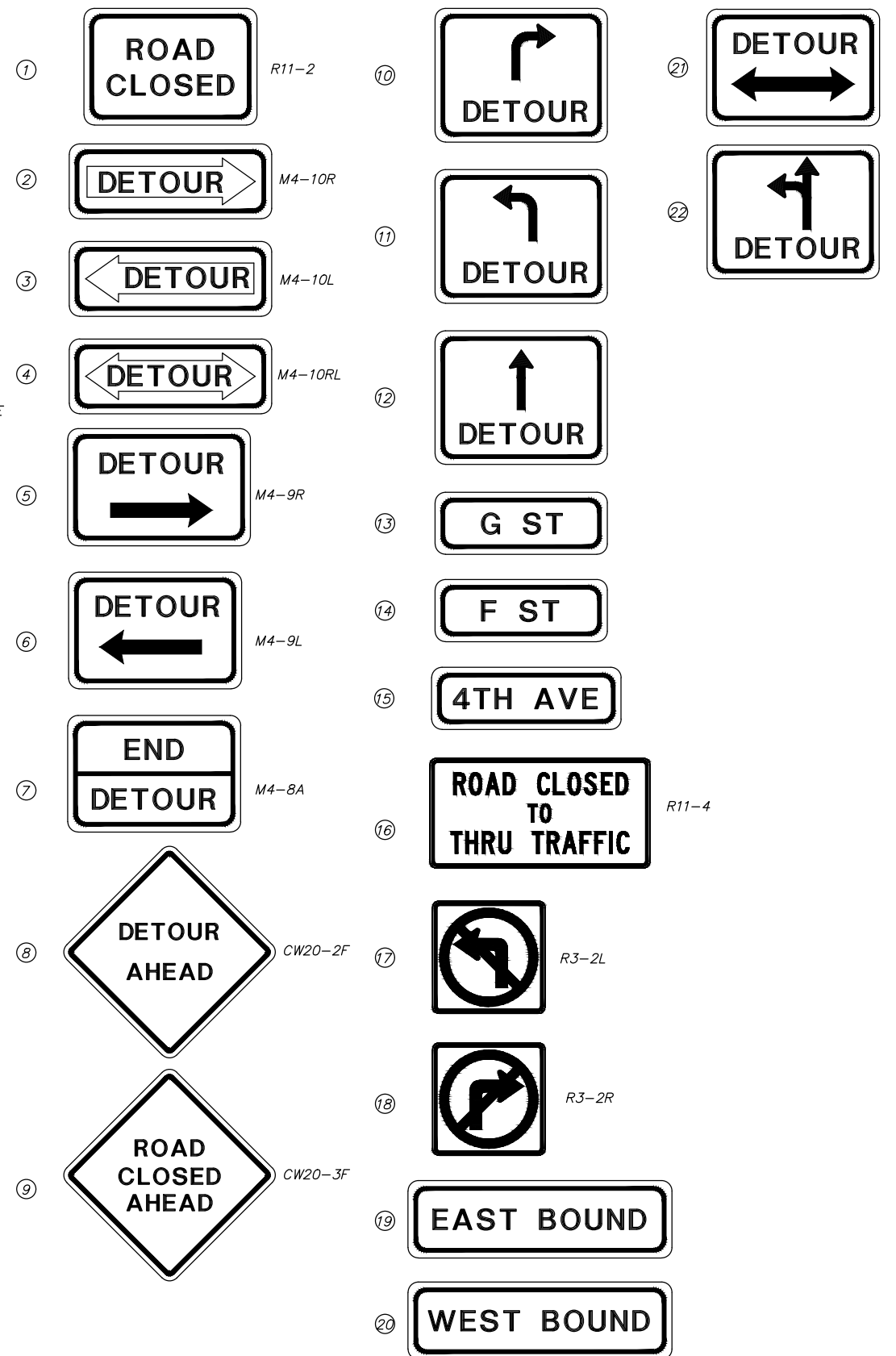
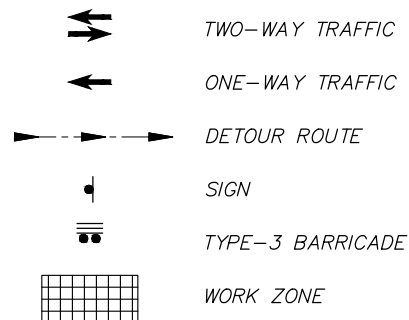
**3** **ACCESS TO BUSINESS/RESIDENCE**  
G8 CONTRACTOR MAY PROVIDE TEMPORARY PEDESTRIAN ACCESS  
TO BUSINESSES VIA ALLEY ONLY UPON OBTAINING APPROVAL  
FROM THE AFFECTED BUSINESS/PROPERTY OWNER.



[illegible]







### LEGEND



<b>RECORD DRAWING</b>																					<b>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</b>																																	
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.						DATA BASE KE KE TOPOGRAPHY KE KE PROFILE KE KE STORM SEWER KE KE WATER/SANITARY SEWER KE KE GAS KE KE TELEPHONE/CABLE TV KE KE ELECTRIC KE KE DESIGN KE KE QUANTITIES KE KE PRELIMINARY/FINAL KE KE MUN. FINAL CHECK KE KE							DRAWN BY CHECKED BY							FIELD BOOKS TBM NO. LOCATION ELEV. REV DATE DESCRIPTION BY								 <b>KINNEY</b> ENGINEERING, LLC 3909 ARCTIC BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102								<div style="text-align: center;">             MUNICIPALITY OF ANCHORAGE         </div>								<b>SCHEDULES X</b> PROJECT NO. 21-22 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET <b>4TH AVENUE ROAD CLOSURE WITH DETOUR</b>										
CONTRACTOR: _____ TITLE: _____ DATE: _____																					<div style="transform: rotate(-45deg); font-size: 2em; font-weight: bold;">             1/31/23 65% DESIGN SUBMITTAL           </div>																																	
2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____																					<b>1/31/2023</b>  SEAL								SCALE HOR. N/A VER. N/A GRID 1230 DATE JAN 2023 STATUS: PRELIMINARY SHEET <b>G9</b> of <b>G9</b>																									
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NOTE TO REVIEWER: THIS SHEET WILL BE COMPLETED IN SUBSEQUENT SUBMITTALS

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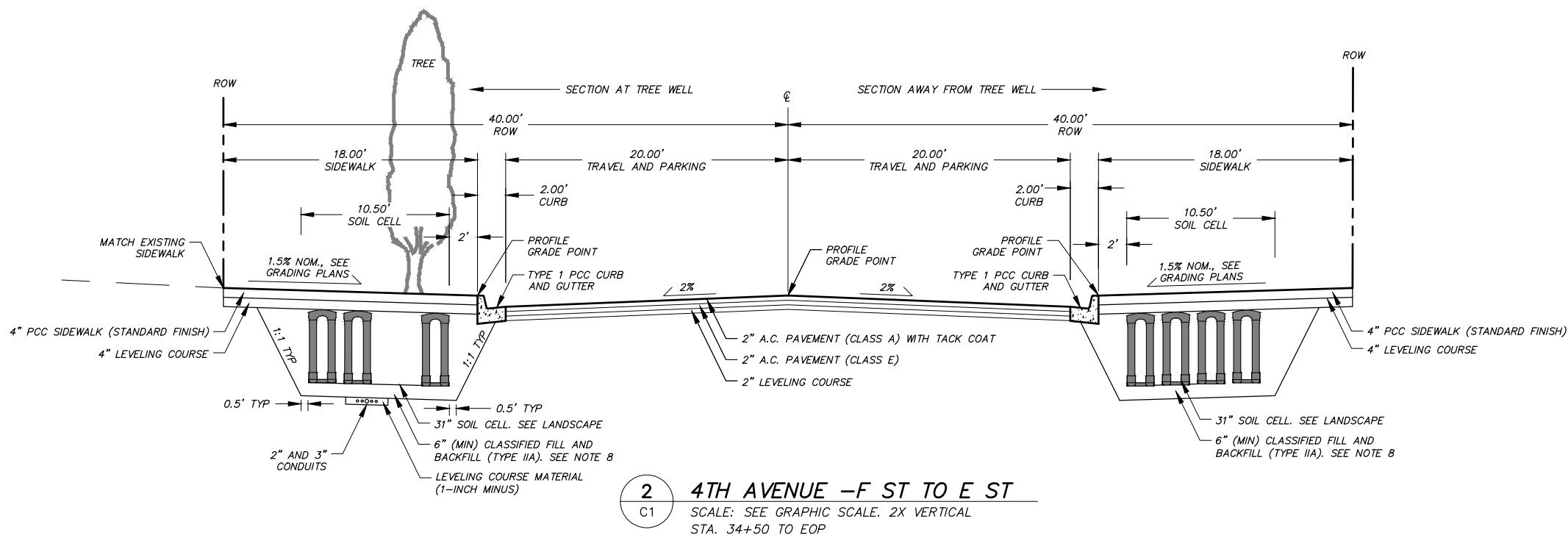








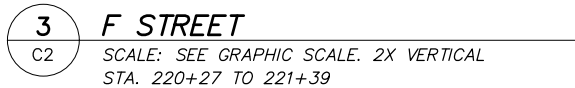
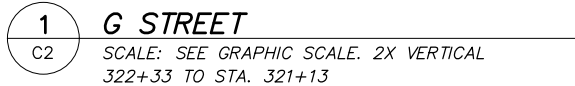




1. CROSS SLOPES MAY VARY. SEE GRADING PLANS.
2. BACK OF SIDEWALK MATCH ELEVATIONS MAY VARY FROM EXISTING. SEE GRADING PLANS. MATCH EXISTING ELEVATION AT DOORWAYS.
3. THICKEN 4" PCC SIDEWALK TO 6" AT DRIVEWAYS AND ALLEYS.
4. PROVIDE CONSTANT GRADE BETWEEN PROFILE GRADE POINT AND LIP OF CURB UNLESS NOTED OTHERWISE ON GRADING PLANS.
5. REPAIR DAMAGE TO LAWN AREAS WITH TOPSOIL AND SOD. WHERE SIDEWALK REPLACEMENT OCCURS ADJACENT TO LAWN AREAS, INSTALL A 2-FOOT WIDE STRIP OF SOD AT BACK OF SIDEWALK, CUTTING BACK EXISTING TURF AS NECESSARY. IF SIDEWALK GRADE VARIES FROM EXISTING, MATCH INTO EXISTING AT 10:1 SLOPE.
6. SEE R SHEETS FOR LOCATION OF CURB TRANSITIONS.
7. ROAD CENTERLINE AND TOP BACK OF CURB ELEVATIONS ARE CONTROLLED BY INDEPENDENT PROFILES. SEE R SHEETS.
8. SOIL CELLS SHALL BE INSTALLED DIRECTLY ON SUBGRADE UNLESS THE ENGINEER DETERMINES CLASSIFIED FILL AND BACKFILL IS REQUIRED TO PROPERLY SUPPORT THE SOIL CELLS.

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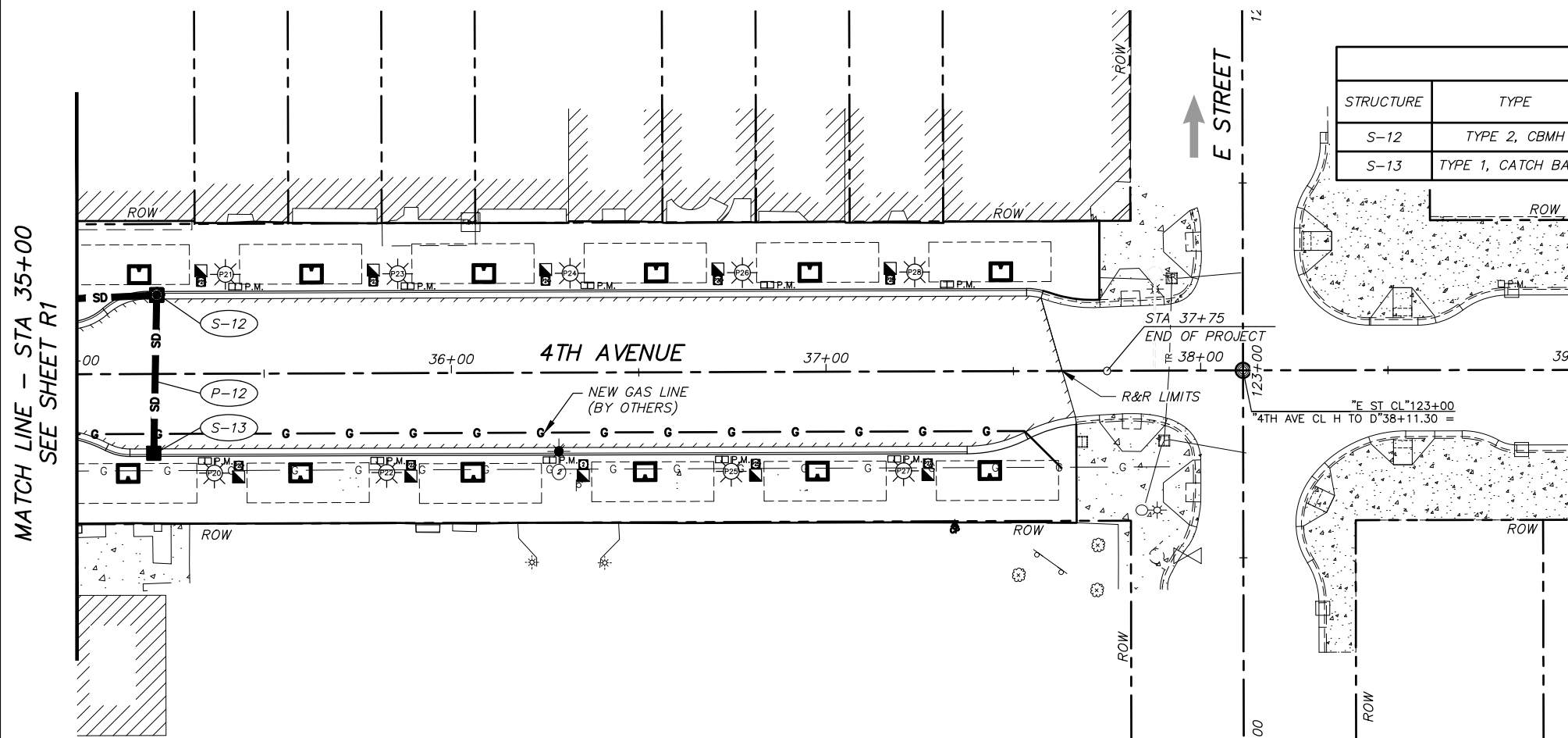


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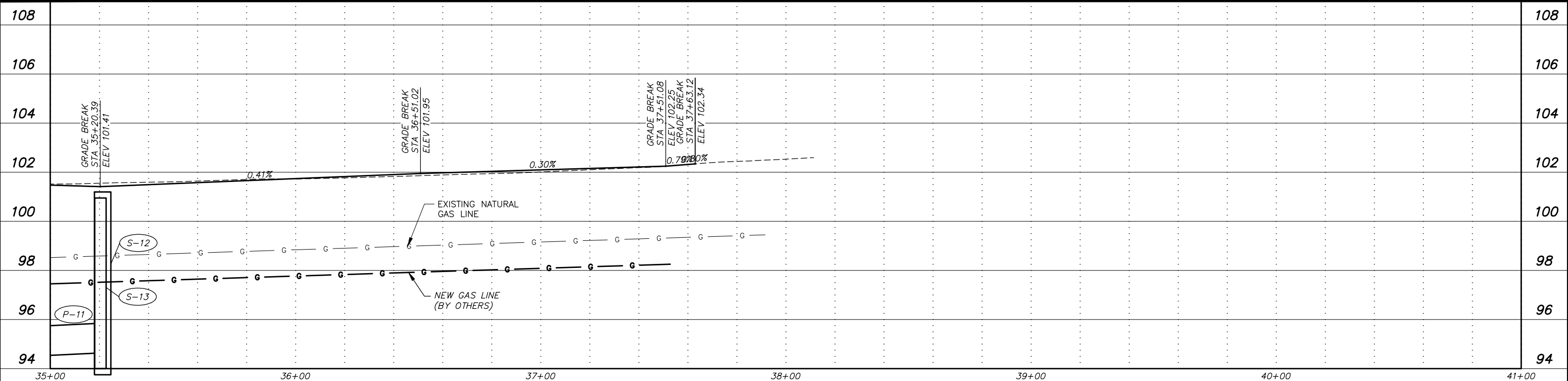






STORM DRAIN STRUCTURE SUMMARY						
STRUCTURE	TYPE	STATION	OFFSET	TOP OF CASTING	TYPE OF CASTING	REMARKS
S-12	TYPE 2, CBMH	35+21.38	21.00' LT	101.20	STANDARD	SEE MASS STD DETAILS 55-5 AND 55-13
S-13	TYPE 1, CATCH BASIN	35+20.47	21.15' RT	100.95	TYPE 1 CURB INLET	SEE MASS STD DETAIL 55-22

PIPE TABLE									
PIPE NUMBER	TYPE	SIZE (IN)	LENGTH	SLOPE	START	INVERT	END	INVERT	MIN COVER
P-11	CPEP	12	82.09	-0.49%	S-10	94.35	S-12	94.75	5.34
P-12	CPEP	10	42.16	0.47%	S-13	95.00	S-12	94.80	5.06



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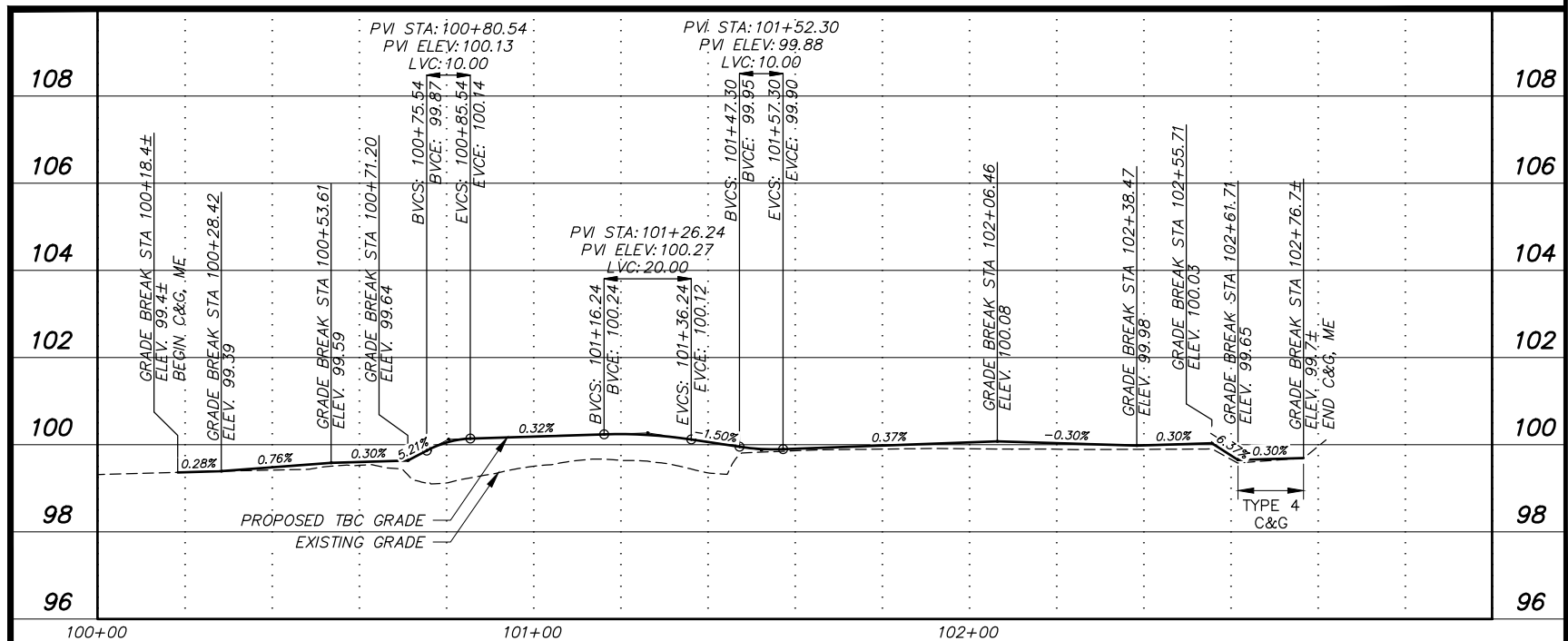








1. CURB & GUTTER ALIGNMENTS AND PROFILES ARE AT TOP BACK OF CURB. PROFILES DO NOT REFLECT CURB RAMPS - SEE GRADING SHEETS FOR MORE DETAIL.
2. CURB & GUTTER ARE TYPE 1 UNLESS OTHERWISE NOTED.



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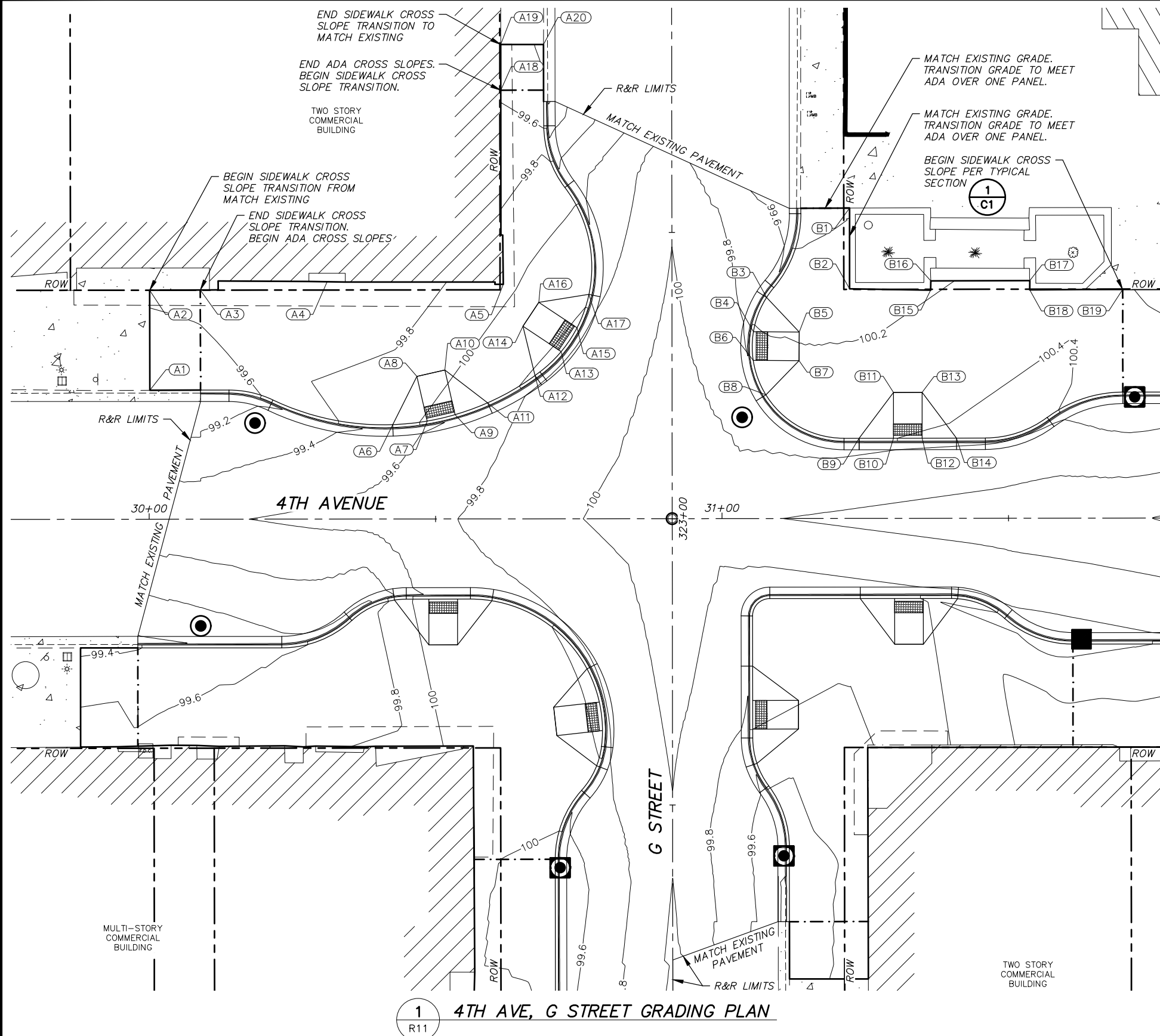













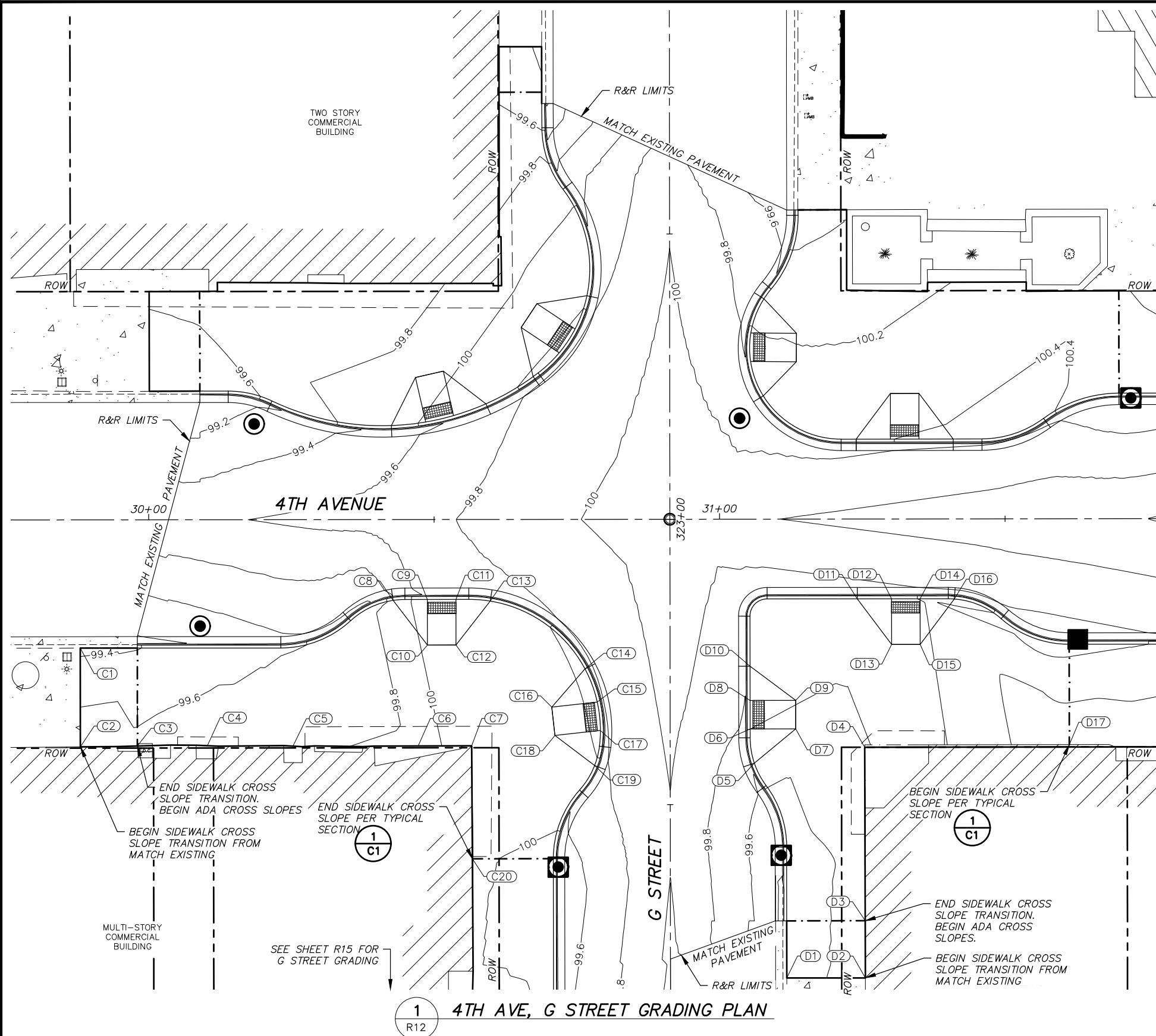


SIDEWALK GRADING TABLE				
POINT	DESC.	STATION	OFFSET	ELEV
A1	PI	30+00.14	22.52 LT	99.4± ME
A2	PI	30+00.12	40.00 LT	99.6± ME
A3	PI	30+08.95	40.03 LT	99.67
A4	PI	30+31.11	41.45 LT	99.86
A5	PI	30+61.86	40.96 LT	100.18
A6	PI, RAMP, TBC	30+42.53	16.47 LT	99.95
A7	PI, RAMP, TBC	30+48.55	17.09 LT	99.64
A8	PI, RAMP	30+46.76	24.89 LT	99.86
A9	PI, RAMP, TBC	30+53.42	18.21 LT	99.71
A10	PI, RAMP	30+51.63	26.01 LT	99.97
A11	PI, RAMP, TBC	30+59.10	20.27 LT	100.18
A12	PI, RAMP, TBC	30+67.38	25.04 LT	100.25
A13	PI, RAMP, TBC	30+71.94	29.21 LT	99.87
A14	PI, RAMP	30+65.28	33.64 LT	100.11
A15	PI, RAMP, TBC	30+74.71	33.37 LT	99.86
A16	PI, RAMP	30+68.05	37.80 LT	100.10
A17	PI, RAMP, TBC	30+76.79	39.20 LT	100.24
A18	PI	30+61.45	74.87 LT	99.54
A19	PI	30+61.45	82.84 LT	99.5± ME
A20	PI	30+68.92	82.84 LT	99.4± ME
B1	PI	31+22.33	54.20 LT	100.1± ME
B2	PI	31+22.32	40.11 LT	100.31
B3	PI, RAMP, TBC	31+07.82	38.61 LT	100.13
B4	PI, RAMP, TBC	31+05.53	32.63 LT	99.81
B5	PI, RAMP	31+13.52	32.56 LT	100.14
B6	PI, RAMP, TBC	31+05.48	27.63 LT	99.87
B7	PI, RAMP	31+13.48	27.56 LT	100.16
B8	PI, RAMP, TBC	31+07.68	21.61 LT	100.32
B9	PI, RAMP, TBC	31+23.95	14.00 LT	100.38
B10	PI, RAMP, TBC	31+29.95	14.00 LT	100.00
B11	PI, RAMP	31+29.95	22.00 LT	100.18
B12	PI, RAMP, TBC	31+34.95	14.00 LT	100.01
B13	PI, RAMP	31+34.95	22.00 LT	100.19
B14	PI, RAMP, TBC	31+40.95	14.00 LT	100.43
B15	PI	31+36.46	39.86 LT	100.30
B16	PI	31+36.50	41.47 LT	100.32
B17	PI	31+53.78	41.50 LT	100.62
B18	PI	31+53.76	39.87 LT	100.65
B19	PI	31+69.98	39.93 LT	100.38

- NOTES:**
1. SEE SHEETS R5-R10 FOR CURBLINE PLAN AND PROFILE.
  2. CONSTRUCT PERPENDICULAR CURB RAMP I.A.W. MASS STD DETAIL 30-8.
  3. SEE LANDSCAPE SHEETS FOR SIDEWALK JOINT AND FINISH SCORING PATTERN.

<b>RECORD DRAWING</b> 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: _____			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:20%;">DATA</th> <th style="width:10%;">DRAWN BY</th> <th style="width:10%;">CHECKED BY</th> </tr> <tr><td>BASE</td><td>KE</td><td>KE</td></tr> <tr><td>TOPOGRAPHY</td><td>KE</td><td>KE</td></tr> <tr><td>PROFILE</td><td>KE</td><td>KE</td></tr> <tr><td>STORM SEWER</td><td>KE</td><td>KE</td></tr> <tr><td>WATER/SANITARY SEWER</td><td>KE</td><td>KE</td></tr> <tr><td>GAS</td><td>KE</td><td>KE</td></tr> <tr><td>TELEPHONE/CABLE TV</td><td>KE</td><td>KE</td></tr> <tr><td>ELECTRIC</td><td>KE</td><td>KE</td></tr> <tr><td>DESIGN</td><td>KE</td><td>KE</td></tr> <tr><td>QUANTITIES</td><td>KE</td><td>KE</td></tr> <tr><td>PRELIMINARY/FINAL</td><td>KE</td><td>KE</td></tr> <tr><td>MUNI. FINAL CHECK</td><td>KE</td><td>KE</td></tr> </table>			DATA	DRAWN BY	CHECKED BY	BASE	KE	KE	TOPOGRAPHY	KE	KE	PROFILE	KE	KE	STORM SEWER	KE	KE	WATER/SANITARY SEWER	KE	KE	GAS	KE	KE	TELEPHONE/CABLE TV	KE	KE	ELECTRIC	KE	KE	DESIGN	KE	KE	QUANTITIES	KE	KE	PRELIMINARY/FINAL	KE	KE	MUNI. FINAL CHECK	KE	KE				<div style="display: flex; align-items: center;">  <div> <b>KINNEY</b>  <small>ENGINEERING, LLC</small>        3909 ARCTIC BLVD, SUITE 400        ANCHORAGE, ALASKA 99503        (907) 346-2373        CERT. OF AUTH. NO.        AECL 1102     </div> </div>																																															
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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: _____			<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:20%;">PLAN CHECK</th> <th style="width:20%;">CONSTRUCTION RECORD</th> <th style="width:20%;">VERTICAL DATUM</th> <th style="width:20%;">REVISIONS</th> </tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </table>			PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS																																					<div style="display: flex; justify-content: space-between;"> <div>             CONSULTANT              SEAL           </div> <div>             SCALE              HOR. 1"=20'              VER. N/A           </div> <div>             GRID 1230              STATUS: PRELIMINARY           </div> <div>             DATE JAN 2023              SHEET           </div> </div>																																																	
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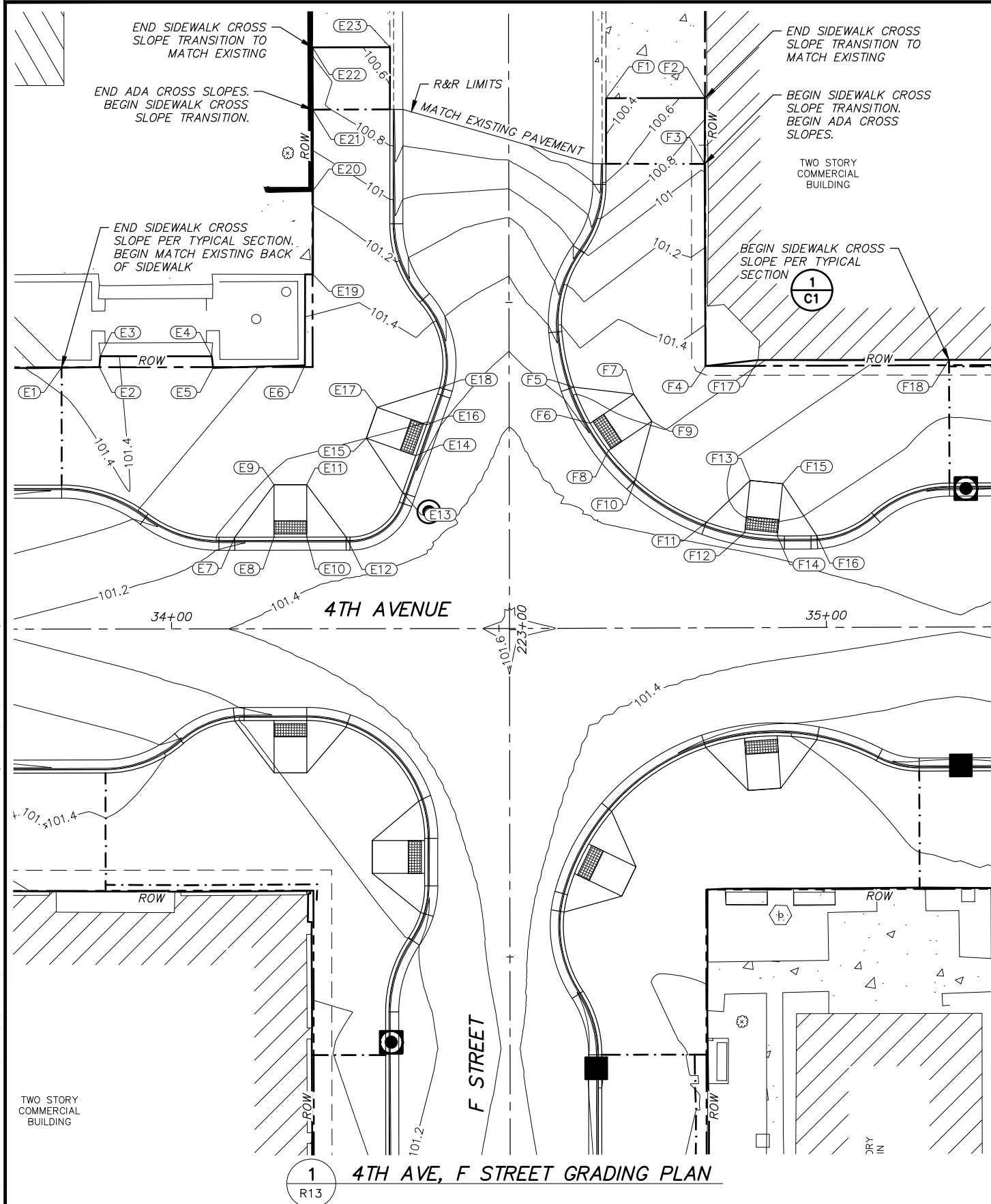


SIDEWALK GRADING TABLE				
POINT	DESC.	STATION	OFFSET	ELEV
C1	PI	29+88.00	22.47 RT	99.4± ME
C2	PI	29+88.00	39.78 RT	99.8± ME
C3	PI	30+23.15	39.61 RT	99.65
C4	PI	30+25.22	39.70 RT	99.74
C5	PI	30+33.28	39.71 RT	99.77
C6	PI	30+47.14	39.74 RT	99.91
C7	PI	30+56.54	39.66 RT	100.10
C8	PI, RAMP, TBC	30+42.81	14.15 RT	99.86
C9	PI, RAMP, TBC	30+48.81	14.00 RT	99.68
C10	PI, RAMP	30+48.81	22.00 RT	99.83
C11	PI, RAMP, TBC	30+53.81	14.00 RT	99.74
C12	PI, RAMP	30+53.81	22.00 RT	99.90
C13	PI, RAMP, TBC	30+59.81	14.31 RT	100.16
C14	PI, RAMP, TBC	30+76.39	26.22 RT	100.23
C15	PI, RAMP, TBC	30+78.53	32.02 RT	99.84
C16	PI, RAMP	30+70.58	32.89 RT	100.04
C17	PI, RAMP, TBC	30+79.07	36.99 RT	99.83
C18	PI, RAMP	30+71.12	37.86 RT	100.01
C19	PI, RAMP, TBC	30+78.06	43.14 RT	100.19
C20	PI	30+56.65	59.47 RT	100.04
D1	PI	31+11.66	72.47 RT	99.9± ME
D2	PI	31+25.44	72.47 RT	100.0± ME
D3	PI	31+25.42	62.47 RT	100.07
D4	PI	31+25.38	40.00 RT	100.19
D5	PI, RAMP, TBC	31+06.02	42.77 RT	100.09
D6	PI, RAMP, TBC	31+05.30	36.77 RT	99.80
D7	PI, RAMP	31+13.30	36.77 RT	100.05
D8	PI, RAMP, TBC	31+05.30	31.77 RT	99.85
D9	PI, RAMP	31+13.30	31.77 RT	100.09
D10	PI, RAMP, TBC	31+05.30	25.77 RT	100.28
D11	PI, RAMP, TBC	31+24.11	13.99 RT	100.37
D12	PI, RAMP, TBC	31+30.11	13.99 RT	99.99
D13	PI, RAMP	31+30.10	21.99 RT	100.13
D14	PI, RAMP, TBC	31+35.11	14.00 RT	100.00
D15	PI, RAMP	31+35.10	22.00 RT	100.14
D16	PI, RAMP, TBC	31+41.11	14.04 RT	100.42
D17	PI	31+61.21	39.62 RT	100.61

- NOTES:**
1. SEE SHEETS R5--R10 FOR CURBLINE PLAN AND PROFILE.
  2. CONSTRUCT PERPENDICULAR CURB RAMP I.A.W. MASS STD DETAIL 30-8.
  3. SEE LANDSCAPE SHEETS FOR SIDEWALK JOINT AND FINISH SCORING PATTERN.

[illegible]





NOTES:

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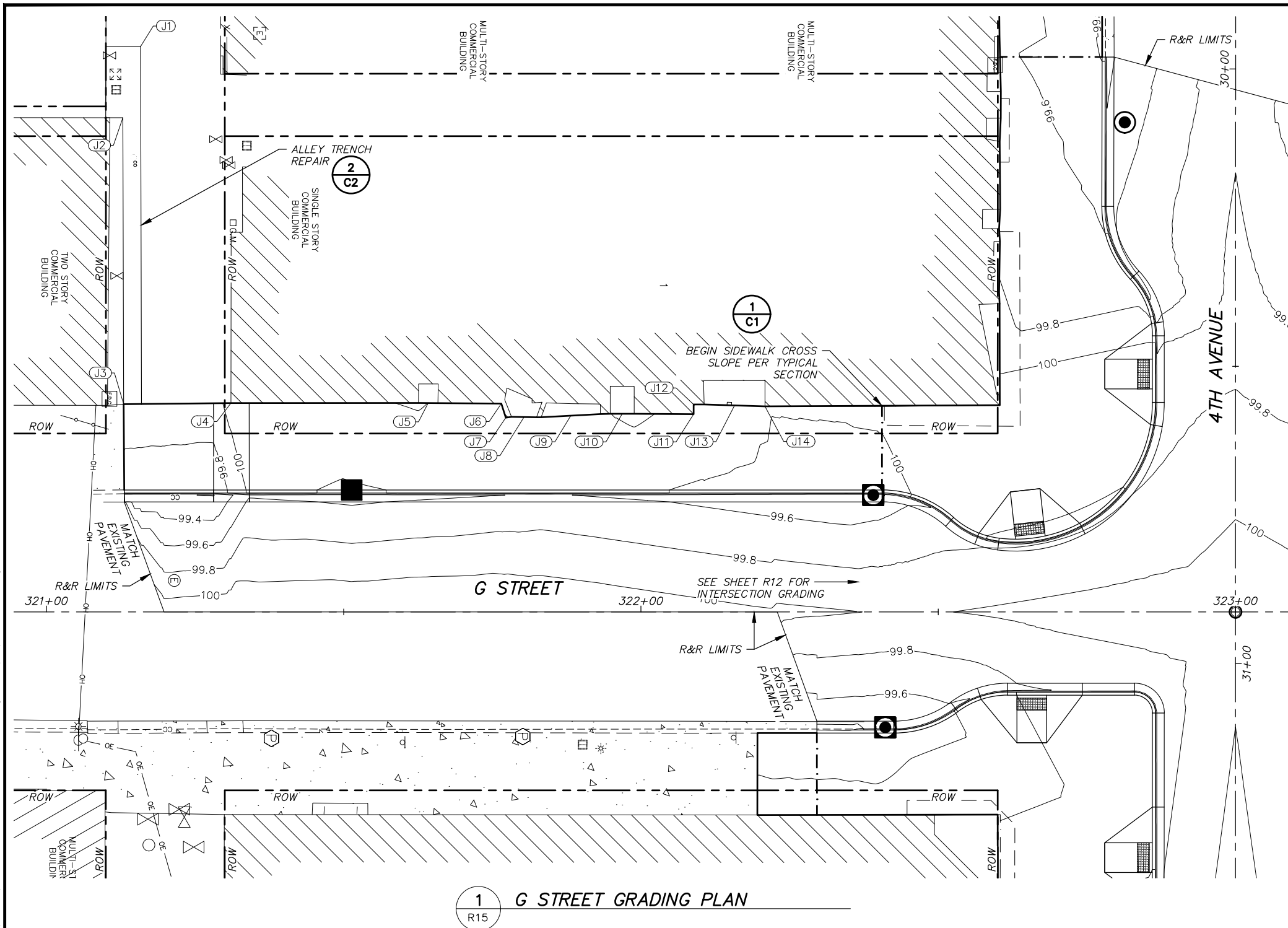
SIDEWALK GRADING TABLE				
POINT	DESC.	STATION	OFFSET	ELEV
E1	PI	33+83.25	39.94 LT	101.44
E2	PI	33+89.03	40.02 LT	101.48
E3	PI	33+89.17	41.69 LT	101.49
E4	PI	34+06.21	41.64 LT	101.59
E5	PI	34+06.41	39.88 LT	101.56
E6	PI	34+20.42	40.24 LT	101.58
E7	PI, RAMP, TBC	34+09.67	14.00 LT	101.64
E8	PI, RAMP, TBC	34+15.67	14.00 LT	101.30
E9	PI, RAMP	34+15.67	22.00 LT	101.46
E10	PI, RAMP, TBC	34+20.67	14.00 LT	101.34
E11	PI, RAMP	34+20.67	22.00 LT	101.50
E12	PI, RAMP, TBC	34+26.67	14.00 LT	101.75
E13	PI, RAMP, TBC	34+35.32	20.77 LT	101.69
E14	PI, RAMP, TBC	34+37.33	26.42 LT	101.24
E15	PI, RAMP	34+29.79	29.10 LT	101.48
E16	PI, RAMP, TBC	34+39.00	31.13 LT	101.20
E17	PI, RAMP	34+31.46	33.81 LT	101.44
E18	PI, RAMP, TBC	34+40.98	36.80 LT	101.55
E19	PI	34+20.47	54.14 LT	101.34
E20	PI	34+21.16	61.88 LT	101.15
E21	PI	34+21.59	66.82 LT	100.84
E22	PI	34+21.65	88.83 LT	100.8± ME
E23	PI	34+33.47	88.85 LT	100.5± ME
F1	PI	34+66.62	80.97 LT	100.3± ME
F2	PI	34+81.75	80.94 LT	100.7± ME
F3	PI	34+81.64	70.88 LT	100.73
F4	PI	34+81.68	40.00 LT	101.85
F5	PI, RAMP, TBC	34+61.52	36.85 LT	101.58
F6	PI, RAMP, TBC	34+64.02	31.31 LT	101.25
F7	PI, RAMP	34+70.69	35.74 LT	101.54
F8	PI, RAMP, TBC	34+66.79	27.14 LT	101.29
F9	PI, RAMP	34+73.45	31.57 LT	101.59
F10	PI, RMAP, TBC	34+70.94	22.69 LT	101.73
F11	PI, RAMP, TBC	34+81.72	16.16 LT	101.78
F12	PI, RAMP, TBC	34+87.59	14.54 LT	101.39
F13	PI, RAMP	34+88.43	22.50 LT	101.73
F14	PI, RAMP, TBC	34+92.56	14.02 LT	101.39
F15	PI, RAMP	34+93.40	21.97 LT	101.73
F16	PI, RAMP, TBC	34+98.59	14.03 LT	101.77
F17	PI	34+89.71	40.88 LT	102.01
F18	PI	35+18.87	40.82 LT	101.98

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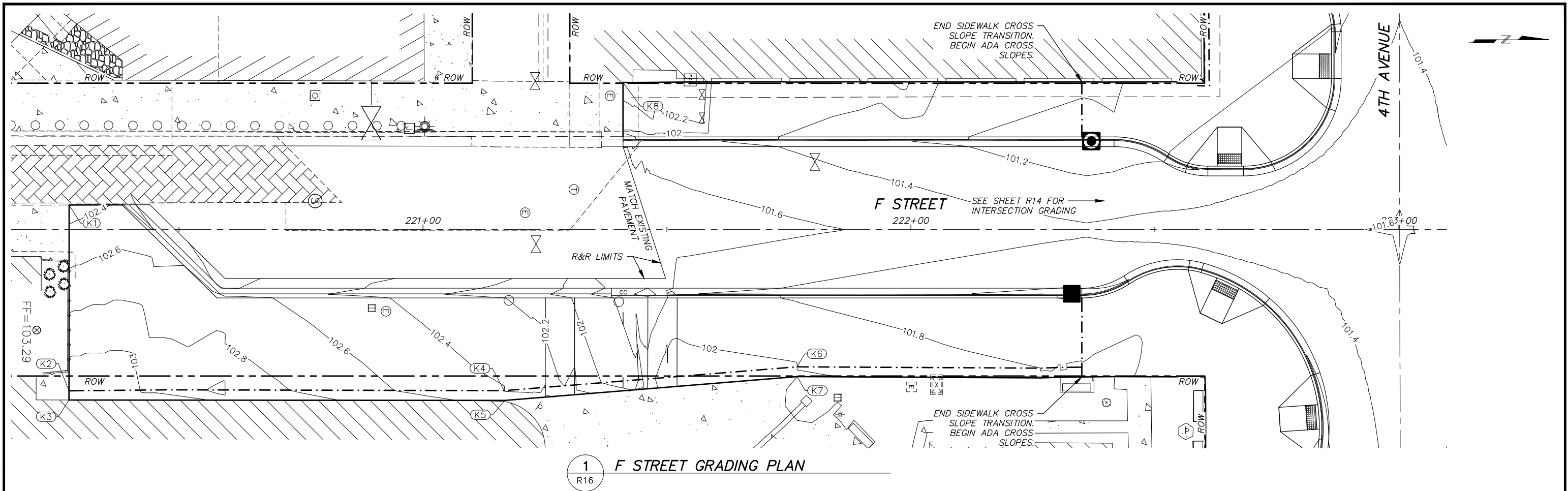




<i>SIDEWALK GRADING TABLE</i>				
<i>POINT</i>	<i>DESC.</i>	<i>STATION</i>	<i>OFFSET</i>	<i>ELEV</i>
<i>J1</i>	<i>PI</i>	<i>321+15.83</i>	<i>95.09 LT</i>	<i>100.5± ME</i>
<i>J2</i>	<i>PI</i>	<i>321+12.86</i>	<i>83.10 LT</i>	<i>100.7± ME</i>
<i>J3</i>	<i>PI</i>	<i>321+12.99</i>	<i>34.94 LT</i>	<i>99.9± ME</i>
<i>J4</i>	<i>PI</i>	<i>321+31.03</i>	<i>35.11 LT</i>	<i>100.08</i>
<i>J5</i>	<i>PI</i>	<i>321+64.21</i>	<i>35.14 LT</i>	<i>100.20</i>
<i>J6</i>	<i>PI</i>	<i>321+76.52</i>	<i>35.03 LT</i>	<i>100.18</i>
<i>J7</i>	<i>PI</i>	<i>321+77.27</i>	<i>32.68 LT</i>	<i>100.14</i>
<i>J8</i>	<i>PI</i>	<i>321+80.33</i>	<i>32.77 LT</i>	<i>100.13</i>
<i>J9</i>	<i>PI</i>	<i>321+88.19</i>	<i>33.00 LT</i>	<i>100.16</i>
<i>J10</i>	<i>PI</i>	<i>321+96.85</i>	<i>33.32 LT</i>	<i>100.22</i>
<i>J11</i>	<i>PI</i>	<i>322+08.86</i>	<i>33.25 LT</i>	<i>100.13</i>
<i>J12</i>	<i>PI</i>	<i>322+08.87</i>	<i>34.88 LT</i>	<i>100.17</i>
<i>J13</i>	<i>PI</i>	<i>322+15.74</i>	<i>34.73 LT</i>	<i>100.13</i>
<i>J14</i>	<i>PI</i>	<i>322+20.85</i>	<i>34.57 LT</i>	<i>100.05</i>

[illegible]





SIDEWALK GRADING TABLE				
POINT	DESC.	STATION	OFFSET	ELEV
K1	PI	220+27.50	5.04 LT	102.3± ME
K2	PI	220+27.46	33.03 RT	102.3± ME
K3	PI	220+27.46	34.91 RT	103.2± ME
K4	PI	221+16.69	33.00 RT	102.41
K5	PI	221+16.76	35.00 RT	102.51
K6	PI	221+76.64	28.12 RT	102.01
K7	PI	221+76.71	30.12 RT	102.03
K8	PI	221+41.00	30.17 LT	102.3± KE

1. SEE SHEETS R5-R10 FOR CURBLINE PLAN AND PROFILE.
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[illegible]




DATA		DRAWN BY		CHECKED BY		<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p><b>KINNEY</b> ENGINEERING, LLC</p> <p>3909 ARCTIC BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102</p> </div> <div style="text-align: center;"> <p><i>1/31/23</i> <b>65% DESIGN SUBMITTAL</b></p> </div> <div> </div> </div>									
BASE		KE		KE											
TOPOGRAPHY		KE		KE		<div style="text-align: center;"> <p><b>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</b></p> <p>PROJECT NO. 21-22</p> <p>4TH AVENUE SIGNALS AND LIGHTING UPGRADE – G STREET TO E STREET</p> <p><b>STORM DRAIN DETAILS</b></p> </div>									
PROFILE		KE		KE											
STORM SEWER		KE		KE											
WATER/SANITARY SEWER		KE		KE											
GAS		KE		KE											
TELEPHONE/CABLE TV		KE		KE											
ELECTRIC		KE		KE											
DESIGN		KE		KE											
QUANTITIES		KE		KE											
PRELIMINARY/FINAL		KE		KE											
MUN. FINAL CHECK		KE		KE		<div style="display: flex; justify-content: space-between; align-items: center;"> <div> <p>SCALE</p> <p>HOR. 1"=20'</p> <p>VER. N/A</p> </div> <div> <p>GRID 1230</p> <p>STATUS: PRELIMINARY</p> </div> <div> <p>DATE JAN 2023</p> <p>SHEET</p> </div> <div> <p>SD1 of C2</p> </div> </div>									
PLAN CHECK															
CONSTRUCTION RECORD															
VERTICAL DATUM															
REVISIONS															
CONSULTANT															
SEAL															




\\kin-epod-fs\KF-Files\PROJECTS\00704\_4th Ave G to E\DWGS\C\Sheets\00704\_06\_SD1-SDX SD DETAILS.dwg, 1:2, 1/31/23 at 09:30 by AARON.FINKLER

<b>RECORD DRAWING</b> 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	KE	KE								
	TOPOGRAPHY	KE	KE								
	PROFILE	KE	KE	FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY
	STORM SEWER	KE	KE								
	WATER/SANITARY SEWER	KE	KE								
	GAS	KE	KE								
	TELEPHONE/CABLE TV	KE	KE								
	ELECTRIC	KE	KE								
	DESIGN	KE	KE								
QUANTITIES	KE	KE									
PRELIMINARY/FINAL	KE	KE									
MUN. FINAL CHECK	KE	KE									
	PLAN CHECK			CONSTRUCTION RECORD	VERTICAL DATUM		REVISIONS			CONSULTANT	SEAL



3909 ARCTIC BLVD, SUITE 400  
ANCHORAGE, ALASKA 99503  
(907) 346-2373  
CERT. OF AUTH. NO.  
AECL 1102

1/31/23  
65% DESIGN  
SUBMITTAL  
  
1/31/2023




PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
PROJECT NO. 21-22 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET			
STORM DRAIN DETAILS			
SCALE HOR. 1"=20' VER. N/A	GRID 1230	DATE JAN 2023	SD2 of C2
STATUS: PRELIMINARY		SHEET	




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	STORM SEWER	KE	KE								
	WATER/SANITARY SEWER	KE	KE								
	GAS	KE	KE								
	TELEPHONE/CABLE TV	KE	KE								
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PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
PROJECT NO. 21-22 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET			
STORM DRAIN DETAILS			
SCALE HOR. 1"=20' VER. N/A	GRID 1230	DATE JAN 2023	SD3 of C2 SHEET
STATUS: PRELIMINARY			

















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SIGN SUMMARY												
SHEET NO.	POST NO.	STATION	C/L REF.	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	SIGN FACES	SIGN POST	REMARKS	
S1	1	30+22	24.50' RT	R7-201P	(TOW AWAY)	12.00	6.00	0.50	W	2.5" X 2.5" P.S.T		
				R7-8	RESERVED PARKING (ADA)	12.00	18.00	1.50				
	2	30+61	28.68' LT	D3-1	G St	48.00	24.00	8.00	E	N/A	MOUNT ON SIGNAL POLE MAST ARM. SEE SIGNAL PROFILES FOR MORE INFORMATION  ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE G1 SHAFT	
				R3-1	RT TURN PROHIBITED	24.00	24.00	4.00	E			
				R6-2L	ONE WAY	24.00	30.00	5.00	E			
				D3-101	W 4th Ave 700	30.00	8.00	1.67	N/S			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	N			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	W			
	3	30+65	28.36' RT	D3-1	4TH AVE	72.00	24.00	12.00	N	N/A	MOUNT ON SIGNAL POLE MAST ARM. SEE SIGNAL PROFILES FOR MORE INFORMATION  ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE G4 SHAFT  ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE G4 SHAFT	
					ARTS DISTRICT TOPPER				E/W			
				D3-101	G STREET 400	24.00	8.00	1.33				
				R6-1L	ONE WAY (ARROW LEFT)	36.00	12.00	3.00	W			MOUNT ON SIGNAL POLE G4 SHAFT
				R6-1R	ONE WAY (ARROW RIGHT)	36.00	12.00	3.00	E			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	W			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	S			
	4	31+15	26.34' RT	D3-1	G St	48.00	24.00	8.00	W	N/A	MOUNT ON SIGNAL POLE MAST ARM. SEE SIGNAL PROFILES FOR MORE INFORMATION  ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE G3 SHAFT  ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE G3 SHAFT	
				R6-2R	ONE WAY	24.00	30.00	5.00	W			
				R3-2	LT TURN PROHIBITED	24.00	24.00	4.00	W			
					MUSHING DISTRICT TOPPER				N/S			
				D3-101	W 4th Ave 600	30.00	8.00	1.67	N/S			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	W			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	S			
	5	31+20	25.12' LT		ARTS DISTRICT TOPPER				E/W	N/A	ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE G2 SHAFT  ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE G2 SHAFT	
				D3-101	G STREET 300	30.00	8.00	1.67	E/W			
				R6-1L	ONE WAY (ARROW LEFT)	36.00	12.00	3.00	E			MOUNT ON SIGNAL POLE G2 SHAFT
				R6-1R	ONE WAY (ARROW RIGHT)	36.00	12.00	3.00	W			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	N			
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	E			
	6	31+69	23.50' LT	R7-201P	(TOW AWAY)	12.00	6.00	0.50	E	2.5" X 2.5" P.S.T		
				R7-8	RESERVED PARKING (ADA)	12.00	18.00	1.50				
7	31+88	23.49' LT	R7P-134	(TOW AWAY) / NO PARKING / THIS BLOCK / 2:00 AM / TO / 6:00 AM / OCT 15 / TO / APRIL 15 / STREET CLEANING	12.00	36.00	3.00	E	2.5" X 2.5" P.S.T			

SIGN SUMMARY											
SHEET NO.	POST NO.	STATION	C/L REF.	TYPE	LEGEND	WIDTH (INCHES)	HEIGHT (INCHES)	AREA (SF)	SIGN FACES	SIGN POST	REMARKS
S1	8	32+80	24.00' RT	R7P-134	/ THIS BLOCK / 2:00 AM / TO / 6:00 AM / OCT 15 / TO / APRIL 15 / STREET CLEANING	12.00	36.00	3.00	W	2.5" X 2.5" P.S.T	
	9	32+80	23.41' LT	R7P-134	(TOW AWAY) / NO PARKING / THIS BLOCK / 2:00 AM / TO / 6:00 AM / OCT 15 / TO / APRIL 15 / STREET CLEANING	12.00	36.00	3.00	E	2.5" X 2.5" P.S.T	
	10	33+32	23.37' LT	R7P-106R	NO PARKING / LOADING ZONE / ARROW RIGHT	12.00	18.00	1.50	E	2.5" X 2.5" P.S.T	
	11	33+72	24.00' RT	R7P-134	(TOW AWAY) / NO PARKING / THIS BLOCK / 2:00 AM / TO / 6:00 AM / OCT 15 / TO / APRIL 15 / STREET CLEANING	12.00	36.00	3.00	W	2.5" X 2.5" P.S.T	
	12	33+91	24.00' RT	R7-201P	(TOW AWAY)	12.00	6.00	0.50	W	2.5" X 2.5" P.S.T	
				R7-8	RESERVED PARKING (ADA)	12.00	18.00	1.50			
	13	34+23	29.12' LT	D3-1	F St	48.00	24.00	8.00	E	N/A	MOUNT ON SIGNAL POLE MAST ARM. SEE SIGNAL PROFILES FOR MORE INFORMATION
				R2-6R	ONE WAY	24.00	30.00	5.00	E		ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE F1 SHAFT
				R3-2	LT TURN PROHIBITED	24.00	24.00	4.00	E		ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE F1 SHAFT
					MUSHING DISTRICT TOPPER				N/S		
				D3-101	W 4th Ave 600	30.00	8.00	1.67	N/S		
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	N		
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	W		MOUNT ON SIGNAL POLE F1 SHAFT
	14	34+24	25.22' RT	D3-101	F St 400	18.00	8.00	1.00	E/W	N/A	MOUNT ON SIGNAL POLE F4 SHAFT
				R6-1L	ONE WAY (ARROW LEFT)	36.00	12.00	3.00	W		
				R6-1R	ONE WAY (ARROW RIGHT)	36.00	12.00	3.00	E		
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	W		
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	S		
	15	34+77	31.42' LT	D3-1	4TH AVE	72.00	24.00	12.00	S	N/A	MOUNT ON SIGNAL POLE MAST ARM. SEE SIGNAL PROFILES FOR MORE INFORMATION
				D3-101	F St 300	18.00	8.00	1.00	E/W		ONE DOUBLE SIDED SIGN PANEL MOUNTED ON SIGNAL POLE F2 SHAFT
				R6-1L	ONE WAY (ARROW LEFT)	36.00	12.00	3.00	E		MOUNT ON SIGNAL POLE F2 SHAFT
				R6-1R	ONE WAY (ARROW RIGHT)	36.00	12.00	3.00	W		
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	N		
				R10-101	MEANING OF PEDESTRIAN INDICATIONS	9.00	12.00	3.00	E		

SIGNING NOTES:

- THE STATIONS AND CENTERLINE REFERENCES INDICATED IN THE SIGN SUMMARY ARE APPROXIMATE. INSTALL SIGNS AND SIGN FOUNDATIONS PER M.A.S.S. STANDARD DETAILS. BEFORE INSTALLING ANY SIGN, STAKE LOCATION OF ALL SIGNS FOR THE APPROVAL OF THE ENGINEER.
- UNLESS OTHERWISE NOTED, PROVIDE PERFORATED STEEL TUBE (PST) POSTS OF THE SIZE INDICATED IN THE SIGN SUMMARY.
- INSTALL THE POSTS FOR STOP SIGNS AT LOCATIONS THAT CONFORM TO M.A.S.S. STANDARD DETAIL 70-18.
- ALL STOP SIGNS AND STREET NAME SIGNS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION.
- THE REMOVAL AND RELOCATING OF SIGNS SHALL BE SUBSIDIARY TO THE STANDARD SIGN PAY ITEM.
- SEE SHEETS S8 & S9 FOR SPECIAL SIGN LAYOUTS.

<b>RECORD DRAWING</b> 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: _____ TITLE: _____ DATE: _____ BY: _____ 2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR-PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____	<table><tr><th>DATA</th><th>DRAWN BY</th><th>CHECKED BY</th></tr><tr><td>BASE</td><td>KE</td><td>KE</td></tr><tr><td>TOPOGRAPHY</td><td>KE</td><td>KE</td></tr><tr><td>PROFILE</td><td>KE</td><td>KE</td></tr><tr><td>STORM SEWER</td><td>KE</td><td>KE</td></tr><tr><td>WATER/SANITARY SEWER</td><td>KE</td><td>KE</td></tr><tr><td>GAS</td><td>KE</td><td>KE</td></tr><tr><td>TELEPHONE/CABLE TV</td><td>KE</td><td>KE</td></tr><tr><td>ELECTRIC</td><td>KE</td><td>KE</td></tr><tr><td>DESIGN</td><td>KE</td><td>KE</td></tr><tr><td>QUANTITIES</td><td>KE</td><td>KE</td></tr><tr><td>PRELIMINARY/FINAL</td><td>KE</td><td>KE</td></tr><tr><td>MUNI. FINAL CHECK</td><td>KE</td><td>KE</td></tr></table>	DATA	DRAWN BY	CHECKED BY	BASE	KE	KE	TOPOGRAPHY	KE	KE	PROFILE	KE	KE	STORM SEWER	KE	KE	WATER/SANITARY SEWER	KE	KE	GAS	KE	KE	TELEPHONE/CABLE TV	KE	KE	ELECTRIC	KE	KE	DESIGN	KE	KE	QUANTITIES	KE	KE	PRELIMINARY/FINAL	KE	KE	MUNI. FINAL CHECK	KE	KE	<table><tr><th>FIELD BOOKS</th><th>TBM NO.</th><th>LOCATION</th><th>ELEV.</th><th>REV.</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>	FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV.	DATE	DESCRIPTION	BY																																																																																	 3909 ARCTIC BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102	<b>1/31/23 65% DESIGN SUBMITTAL</b>		<b>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</b> PROJECT NO. 21-22 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET SCHEDULE A
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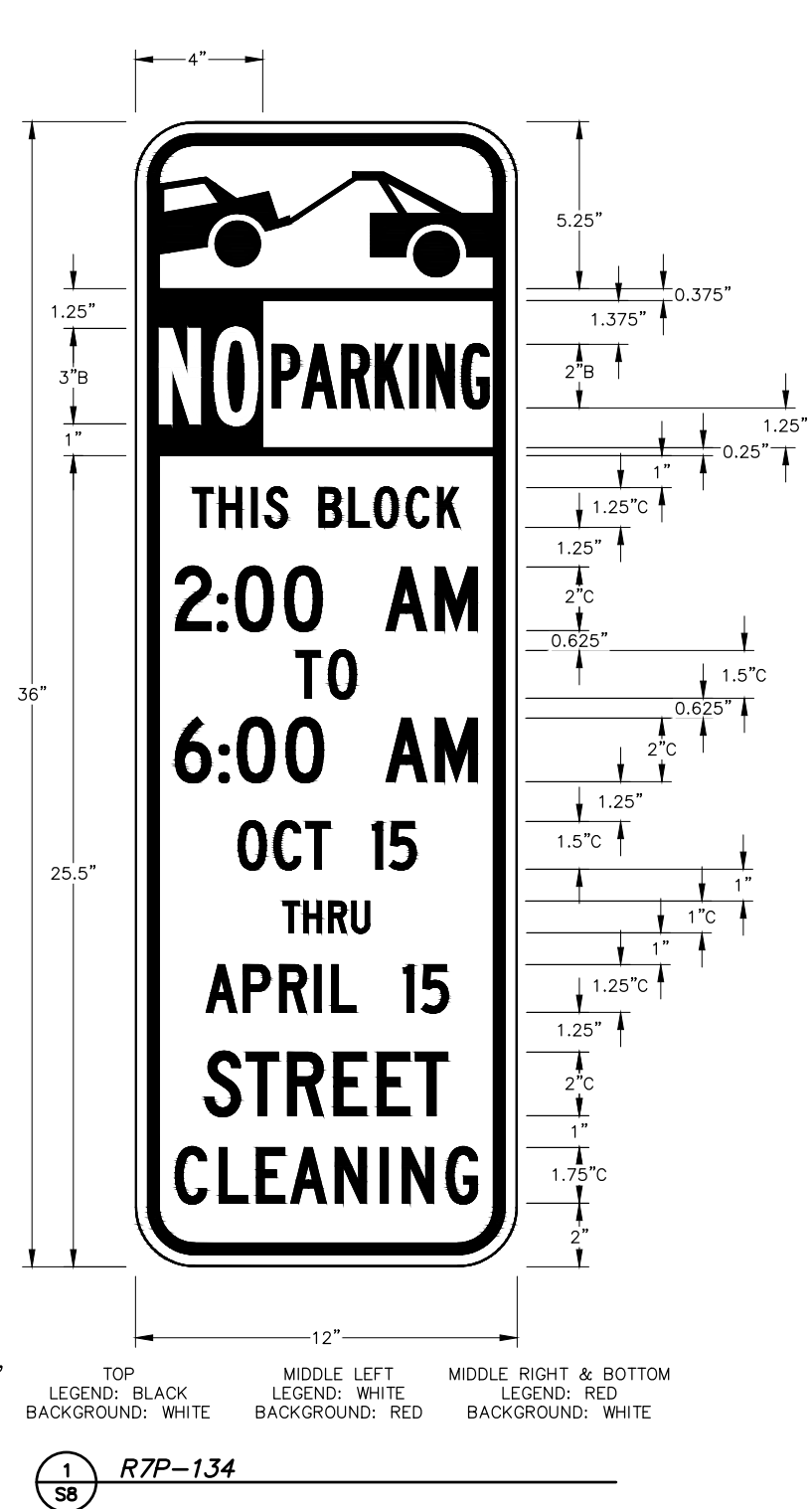












BORDER  
R=1.5"  
TH=.38"  
IN=.38"



**3** **MUSHING DISTRICT SIGN TOPPER (MD TOPPER)**  
**S8** MOUNT ABOVE D3-101 SIGNS AT THE LOCATIONS SHOWN IN THE PLANS  
 FINAL DESIGN TO BE PROVIDED BY OTHERS.  
 PROVIDE 7 ADDITIONAL TOPPERS TO BE DELIVERED TO THE MOA PAINT  
 AND SIGN SHOP.

[illegible]



1. SIDEWALK MOUNTING STUB FOR SIGN POSTS IS FOR SIGNS MOUNTED ON PEDESTRIAN LIGHT, STREET LIGHT, AND SIGNAL POLES ONLY. ALL OTHER SIGNS WITHIN THE PROJECT SHALL BE INSTALLED ON POST FOUNDATIONS.
2. DETAIL SHOWN FOR MOUNTING ON PEDESTRIAN LIGHT POLE FOUNDATIONS. MODIFY AS NEEDED FOR STREET LIGHT AND SIGNAL POLE FOUNDATIONS.
3. DRILL HOLES IN PLATE AS REQUIRED TO ALIGN WITH FOUNDATION BOLT PATTERN.

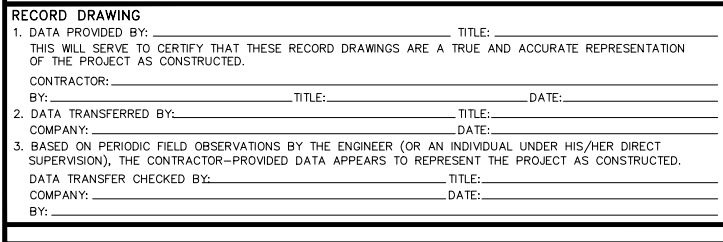


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[illegible]

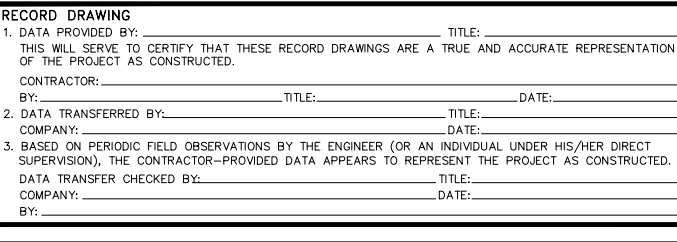
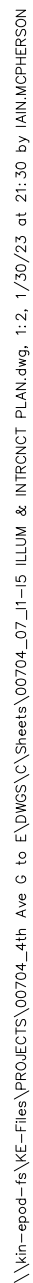
1/31/23  
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1/31/2023

SEAL





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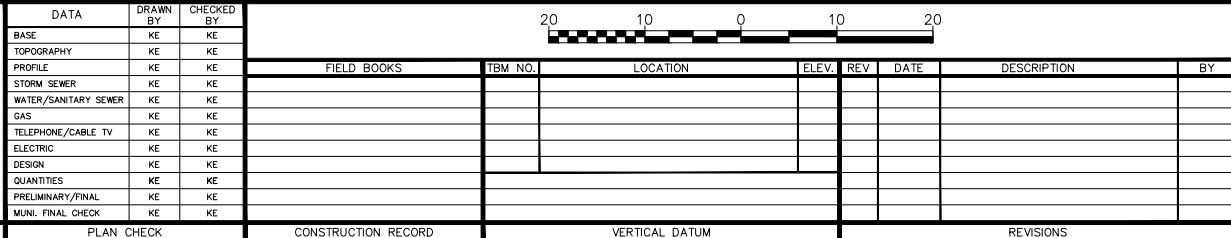
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1/31/2023

SEAL

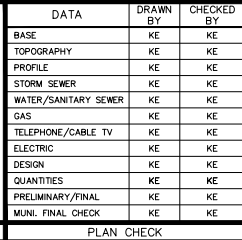






  3909 ARCTIC BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102	<div>1/31/23 65% DESIGN SUBMITTAL</div>		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT					
			PROJECT NO. 21-22		SCHEDULE X			
			4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET					
			ILLUMINATION AND INTERCONNECT PLAN					
			LOCATION DESC.					
CONSULTANT	SEAL		SCALE	HOR. 1"=10' VER. N/A	GRID 1230 STATUS: PRELIMINARY	DATE JAN 2023	SHEET	14 of 119



[illegible]

**KINNEY**  
ENGINEERING, LLC  
3909 ARCTIC BLVD, SUITE 400  
ANCHORAGE, ALASKA 99503  
(907) 346-2373  
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SUBMITTAL

1/31/2023

SEAL



<b>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</b>			
PROJECT NO. 21--22		SCHEDULE B	
4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET			
<b>ILLUMINATION AND INTERCONNECT PLAN</b>			
LOCATION DESC.			
SCALE	HOR. 1"=10' VER. N/A	GRID 1230 STATUS: PRELIMINARY	DATE JAN 2023 SHEET
			15 of 119

















DATA		DRAWN BY		CHECKED BY		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT									
BASE		KE		KE		PROJECT NO. 21-22 SCHEDULES B									
TOPOGRAPHY		KE		KE		4TH AVENUE SIGNALS AND LIGHTING UPGRADE – G STREET TO E STREET									
PROFILE		KE		KE		LOAD CENTER NOTES AND 1 LINES									
STORM SEWER		KE		KE		SCALE HOR. N/A VER. N/A									
WATER/SANITARY SEWER		KE		KE		GRID 1230 DATE JAN 2023									
GAS		KE		KE		STATUS: PRELIMINARY									
TELEPHONE/CABLE TV		KE		KE		SHEET 19 of 119									
ELECTRIC		KE		KE											
DESIGN		KE		KE											
QUANTITIES		KE		KE											
PRELIMINARY/FINAL		KE		KE											
MUN. FINAL CHECK		KE		KE											
PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM		REVISIONS		CONSULTANT		SEAL					



DATA		DRAWN BY		CHECKED BY		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT																	
BASE		KE		KE		PROJECT NO. 21-22 SCHEDULES B																	
TOPOGRAPHY		KE		KE		4TH AVENUE SIGNALS AND LIGHTING UPGRADE – G STREET TO E STREET																	
PROFILE		KE		KE		LOAD CENTER WIRING DIAGRAMS																	
STORM SEWER		KE		KE																			
WATER/SANITARY SEWER		KE		KE																			
GAS		KE		KE		1/31/23 65% DESIGN SUBMITTAL 1/31/2023																	
TELEPHONE/CABLE TV		KE		KE		3909 ARCTIC BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102																	
ELECTRIC		KE		KE		FIELD BOOKS		TBM NO.		LOCATION		ELEV.		REV		DATE		DESCRIPTION		BY			
DESIGN		KE		KE																			
QUANTITIES		KE		KE																			
PRELIMINARY/FINAL		KE		KE																			
MUN. FINAL CHECK		KE		KE																			
PLAN CHECK				CONSTRUCTION RECORD				VERTICAL DATUM				REVISIONS				CONSULTANT				SEAL			



NEW		LOAD CENTER SUMMARY									
LOAD CENTER: "LC F"		TYPE: 1A		UTILITY SOURCE: 25 KVA PAD MOUNT XFMR      util co METER #x							
LOCATION: F STREET, WEST OF LOG CABIN		SERVICE: 200 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE									
REMARKS:		MAX. AVAILABLE FAULT CURRENT: x AMP									
MAIN BREAKER:		200 AMP, 2-POLE, 120/240 VOLT				INTERRUPTING RATING: 10,000 AMP					
		AUXILIARY EQUIPMENT SUMMARY									
DESCRIPTION		VOLT	POLES	AMP	REMARKS						
SURGE ARRESTOR		240	2								
SELECTOR SWITCH, AUTO-ON-OFF (2-POS)		240	1	10							
LIGHTING CONTROL CONTACTOR		240	14	30	MAGNETICALLY LATCHED TYPE						
PANEL 'A' SCHEDULE		120/240 VOLT, 1-PHASE, 3-WIRE, 200A BUS, MLO				INTERRUPTING RATING: 10,000 AMP					
CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	LEG	CKT. NO.	DESCRIPTION	CKT. BKR.	KVA			
1	INTERSECTION LIGHTING LTG (4 LUMS) (F-1)	20A/2P	0.2	0.3	2	LIGHTING CONTROL	15A/1P	0.1			
3	4TH AND F		0.2	0.7	4	CABINET HEATER	15A/1P	0.5			
5	4TH AVE STREET LIGHTING LTG (2 LUMS)(F-2)	20A/2P	0.1	4.1	6	TRAFFIC CONTROLLER	40A/1P	4.0			
7			0.1	1.5	8	FESTOON RECEPTACLES F ST (F-5)	20A/1	1.4			
8	F STREET LTG (8 LUMS) (F-3)	20A/2P	0.2	1.2	10	TREE RECEPTACLES 4TH SOUTH (F-6)	20A/1	1.1			
11	F STREET, SOUTH OF 4TH		0.2	2.0	12	FESTOON RECEPTACLES 4TH NORTH (F-7)	20A/1	1.8			
13	4TH LTG (9LUMS) (F-4)	20A/2P	0.2	1.7	14	TREE RECEPTACLES 4TH NORTH (F-8)	20A/1	1.5			
15	D TO F STREETS, SOUTH & NORTH SIDES		0.2	1.7	16	SPIDER BOX (F-9)	50A/2P	1.5			
17	SPARE	20A/2P	0.0	1.5	18			1.5			
19			0.0	1.5	20	SPIDER BOX (F-10)	50A/2P	1.5			
21	SPARE	20A/2P	0.0	1.5	22			1.5			
23			0.0	1.5	24	SPIDER BOX (F-11)	50A/2P	1.5			
25	SPARE	20A/1P	0.0	1.5	26			1.5			
27	SPARE	20A/1P	0.0	0.0	28	SPARE	50A/2P	0.0			
29	SPACE	-	0.0		30			0.0			
SERVICE LOAD:		CONNECTED:	11.8	8.8	20.6	KVA	86	AMP			
		DEMAND:	14.73	11.055	25.8	KVA	107	AMP			
NOTES: LUM = LUMINAIRE											
* X											
** X											
*** X											

<b>NEW</b>		<b>LOAD CENTER SUMMARY</b>									
LOAD CENTER: <b>"LC G"</b>				TYPE: 1A		UTILITY SOURCE: 25 KVA PAD MOUNT XFMR      util co METER #x					
LOCATION: F STREET, WEST OF LOG CABIN						SERVICE: 200 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE					
REMARKS:						MAX. AVAILABLE FAULT CURRENT:      x AMP					
MAIN BREAKER:				200 AMP, 2-POLE, 120/240 VOLT		INTERRUPTING RATING:				10,000 AMP	
<b>AUXILIARY EQUIPMENT SUMMARY</b>											
DESCRIPTION		VOLT	POLES	AMP	REMARKS						
SURGE ARRESTOR		240	2								
SELECTOR SWITCH, AUTO-ON-OFF (2-POS)		240	1	10							
LIGHTING CONTROL CONTACTOR		240	10	30	MAGNETICALLY LATCHED TYPE						
<b>PANEL 'A' SCHEDULE</b>				120/240 VOLT, 1-PHASE, 3-WIRE, 200A BUS, MLO				INTERRUPTING RATING:		10,000 AMP	
CKT. NO.	DESCRIPTION	CKT. BKR.	KVA	KVA / LEG		CKT. NO.	DESCRIPTION	CKT. BKR.	KVA		
				A	B						
1	INTERSECTION LIGHTING LTG (4 LUMS) (G-1)	20A/2P	0.2	0.3		2	LIGHTING CONTROL	15A/1P	0.1		
3	4TH AND C		0.2		0.7	4	CABINET HEATER	15A/1P	4.0		
5	4TH LIGHTING LTG (6 LUMS) (G-2)	20A/2P	0.1	4.1		6	TRAFFIC CONTROLLER	40A/1P	0.5		
7	SOUTH SIDE		0.1		1.4	8	FESTOON RECEPTACLES 4TH SOUTH SIDE (G-3)	20A/1	1.3		
8	SPARE	20A/1P	0.0	1.5		10	SPIDER BOX (G-4)	50A/2P	1.5		
11	SPARE	20A/1P	0.0		1.5	12			1.5		
13	SPARE	20A/1P	0.0	1.5		14	SPIDER BOX (G-5)	50A/2P	1.5		
15	SPARE	20A/1P	0.0		1.5	16			1.5		
17	SPARE	20A/2P	0.2	1.7		18	SPIDER BOX (G-6)	50A/2P	1.5		
19			0.2		1.7	20			1.5		
21	SPARE	20A/2P	0.0	0.0		22	SPARE	50A/2P	0.0		
23			0.0		0.0	24			0.0		
25	SPARE	20A/2P	0.0	0.0		26	SPARE	20A/1	0.0		
27			0.0		0.0	28	SPARE	20A/1	0.0		
29	SPACE			0.0		30	SPARE	20A/1	0.0		
<b>SERVICE LOAD:</b>			CONNECTED:	9.1	6.8	15.9 KVA	66 AMP				
			DEMAND:	11.37	8.445	19.8 KVA	83 AMP				
<b>NOTES:</b> LUM = LUMINAIRE * X ** X *** X											

NEW

LOAD CENTER SUMMARY

LOAD CENTER: "LC P"

TYPE: 1A

UTILITY SOURCE: 25 KVA PAD MOUNT XFMR

util co METER #x

LOCATION: F STREET, WEST OF LOG CABIN

SERVICE: 200 AMP, 120/240 VOLT, 1-PHASE, 3-WIRE

REMARKS:

MAX. AVAILABLE FAULT CURRENT: x AMP

MAIN BREAKER:

200 AMP, 2-POLE, 120/240 VOLT

INTERRUPTING RATING:

10,000 AMP

AUXILIARY EQUIPMENT SUMMARY

DESCRIPTION

VOLT

POLES

AMP

REMARKS

SURGE ARRESTOR

240

2

SELECTOR SWITCH, AUTO-ON-OFF (2-POS)

240

1

10

LIGHTING CONTROL CONTACTOR

240

6

30

MAGNETICALLY LATCHED TYPE

PANEL 'P' SCHEDULE

120/240 VOLT, 1-PHASE, 3-WIRE, 200A BUS, MLO

INTERRUPTING RATING:

10,000 AMP

CKT. NO.

DESCRIPTION

CKT. BKR.

KVA

KVA / LEG

A

B

CKT NO.

DESCRIPTION

CKT. BKR.

KVA

1

SPARE

(x-1)

50A/2P

0.0

0.1

2

LIGHTING CONTROL INSTALLED FOR FUTURE USE

15A/1P

0.1

3

0.0

0.5

4

CABINET HEATER

15A/1P

0.5

5

SPARE

(x-2)

50A/2P

0.0

0.0

6

SPARE

(x-7)

20A/1P

0.0

7

0.0

0.0

8

SPARE

(x-8)

20A/1P

0.0

8

SPARE

(x-3)

30A/2P

0.0

0.0

10

SPARE

(x-9)

20A/1P

0.0

11

0.0

0.0

12

SPARE

(x-10)

20A/1P

0.0

13

SPARE

(x-4)

30A/2P

0.0

0.0

14

SPARE

(x-11)

20A/1P

0.0

15

0.0

0.0

16

SPARE

(x-12)

20A/1P

0.0

17

SPARE

(x-5)

20A/2P

0.0

0.0

18

SPARE

(x-13)

20A/1P

0.0

19

0.0

0.0

20

SPARE

(x-14)

20A/1P

0.0

21

SPARE

(x-6)

20A/2P

0.0

0.0

22

SPARE

(x-15)

20A/1P

0.0

23

0.0

0.0

24

SPARE

(x-16)

20A/1P

0.0

25

SPACE

-

0.0

0.0

26

SPARE

(x-17)

20A/1P

0.0

27

SPACE

-

0.0

0.0

28

SPARE

(x-18)

20A/1P

0.0

29

SPACE

-

0.0

30

SPACE

-

0.0

SERVICE LOAD:

CONNECTED:

0.1

0.5

0.6 KVA

3 AMP

DEMAND:

0.125

0.625

0.8 KVA

3 AMP



NOTES:

LUM = LUMINAIRE

\* X

\*\* X

\*\*\* X

<b>RECORD DRAWING</b> 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: _____		<table><tr><th>DATA</th><th>DRAWN BY</th><th>CHECKED BY</th></tr><tr><td>BASE</td><td>KE</td><td>KE</td></tr><tr><td>TOPOGRAPHY</td><td>KE</td><td>KE</td></tr><tr><td>PROFILE</td><td>KE</td><td>KE</td></tr><tr><td>STORM SEWER</td><td>KE</td><td>KE</td></tr><tr><td>WATER/SANITARY SEWER</td><td>KE</td><td>KE</td></tr><tr><td>GAS</td><td>KE</td><td>KE</td></tr><tr><td>TELEPHONE/CABLE TV</td><td>KE</td><td>KE</td></tr><tr><td>ELECTRIC</td><td>KE</td><td>KE</td></tr><tr><td>DESIGN</td><td>KE</td><td>KE</td></tr><tr><td>QUANTITIES</td><td>KE</td><td>KE</td></tr><tr><td>PRELIMINARY/FINAL</td><td>KE</td><td>KE</td></tr><tr><td>MUN. FINAL CHECK</td><td>KE</td><td>KE</td></tr></table>		DATA	DRAWN BY	CHECKED BY	BASE	KE	KE	TOPOGRAPHY	KE	KE	PROFILE	KE	KE	STORM SEWER	KE	KE	WATER/SANITARY SEWER	KE	KE	GAS	KE	KE	TELEPHONE/CABLE TV	KE	KE	ELECTRIC	KE	KE	DESIGN	KE	KE	QUANTITIES	KE	KE	PRELIMINARY/FINAL	KE	KE	MUN. FINAL CHECK	KE	KE	<table><tr><th>FIELD BOOKS</th><th>TBM NO.</th><th>LOCATION</th><th>ELEV.</th><th>REV</th><th>DATE</th><th>DESCRIPTION</th><th>BY</th></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>							FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY																																																																									 3909 ARCTIC BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AEC1 1102		<div>1/31/23 65% DESIGN SUBMITTAL</div> 1/31/2023				<b>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</b> PROJECT NO. 21-22 SCHEDULES B 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET  <b>PANEL SCHEDULE</b>			
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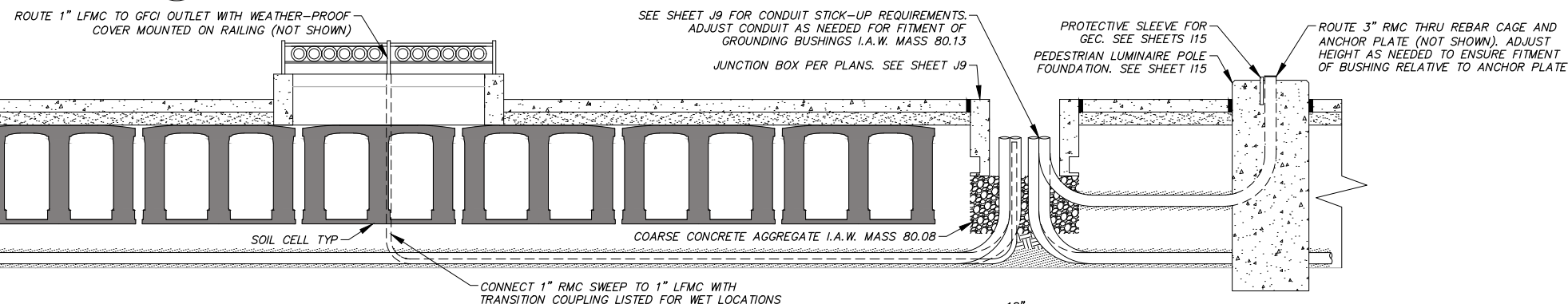
SCALE	HOR. N/A	GRID 1230	DATE JAN 2023	SHEET	112 of 119
	VER. N/A	STATUS: PRELIMINARY			



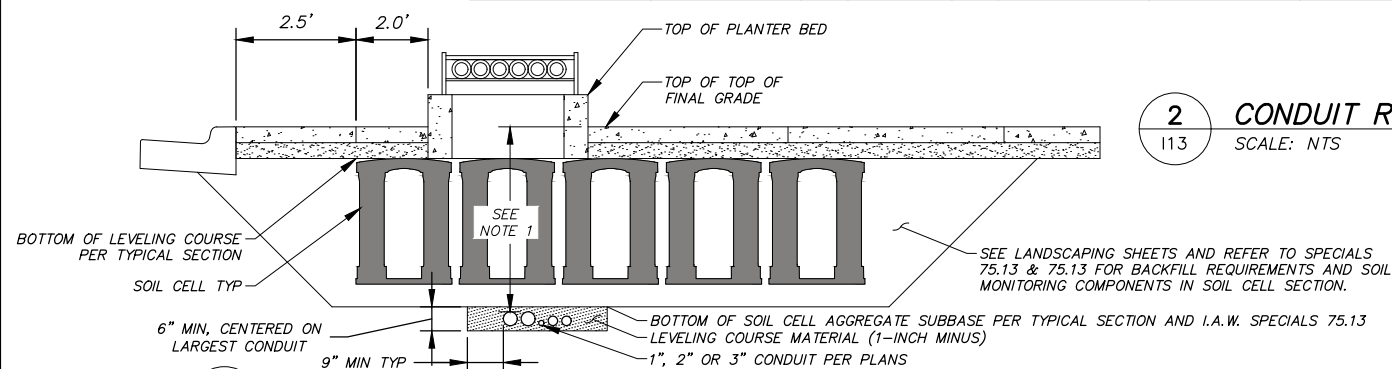
**NOTES:**

1. PROVIDE 46" MIN COVER FROM TOP OF FINAL GRADE TO LARGEST CONDUIT WHEN ROUTING THRU SOIL CELL SECTION.
2. PLACE CENTER OF JUNCTION BOXES A MINIMUM OF 6-FT FROM CENTER OF LIGHT POLES. PLACE JUNCTION BOXES AT NEAREST SIDEWALK JOINTS NOT IN CONFLICT WITH SOIL CELL.

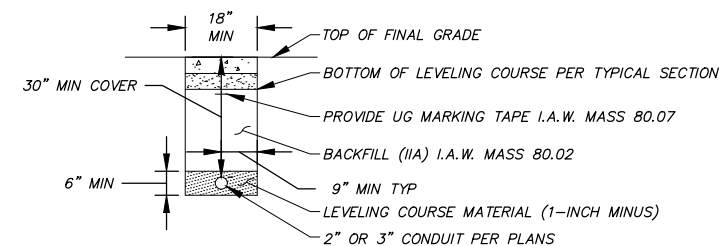
1 PLAN VIEW TYPICAL CONDUIT TRENCHING  
113 SCALE: NTS





2 CONDUIT ROUTE SECTION  
113 SCALE: NTS



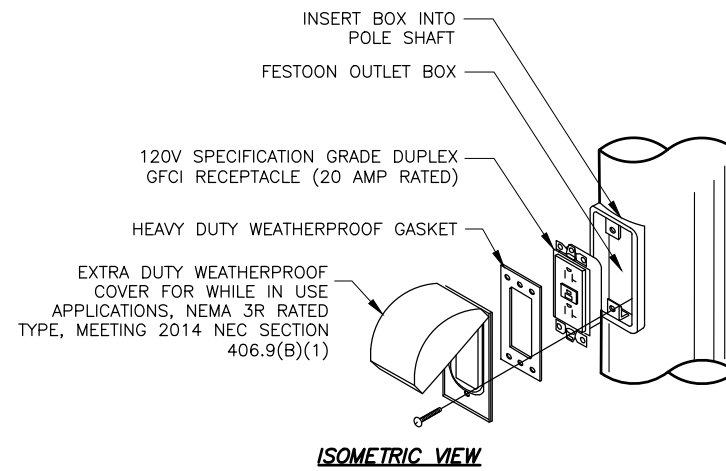
3 CONDUIT TRENCH ROUTED UNDERNEATH SOIL CELL  
113 SCALE: NTS



4 CONDUIT TRENCH OUTSIDE SOIL CELL  
113 SCALE: NTS

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3 PEDESTRIAN POLE PLANTER ARM  
114 SCALE: NTS FRONT VIEW

**4** *FESTOON OUTLET DETAIL*  
114 *SCALE: NTS*

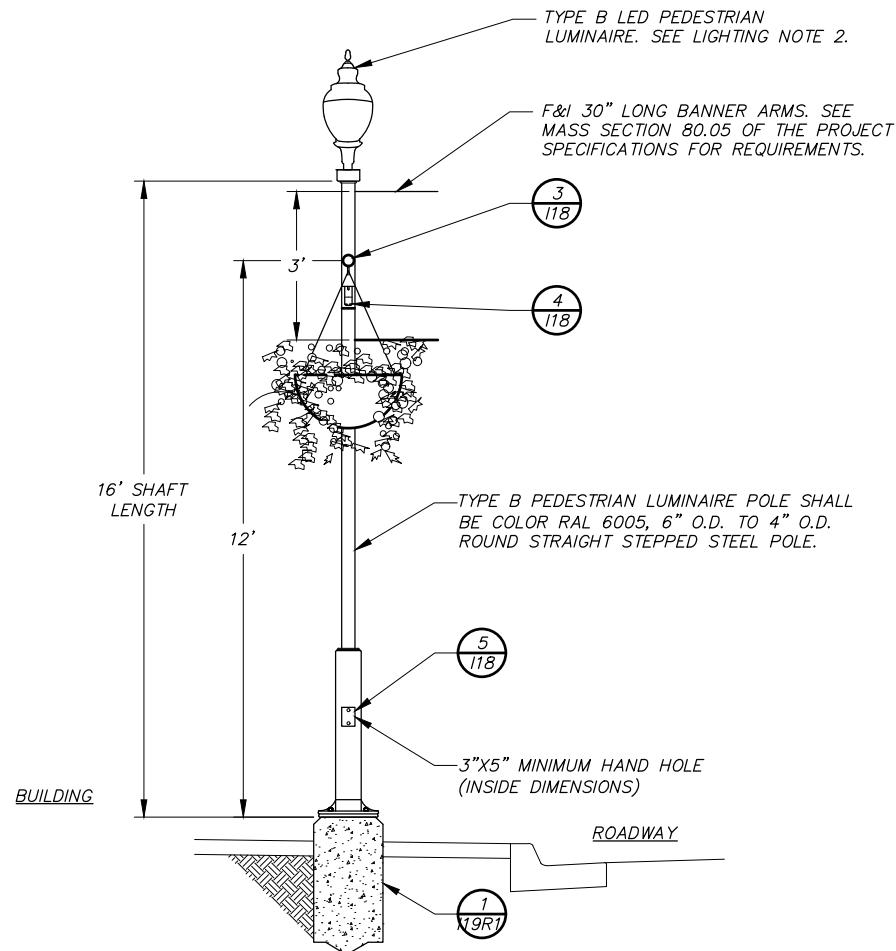
1. USE #6 AWG GROUND CONNECTOR TO #4 HOOP REBAR WITH IRREVERSABLE CONNECTION 12 INCHES BELOW TOP OF FOUNDATION.
2. PROTECT GROUND WIRE WITH 3/4 INCH PVC OR HDPE CONDUIT TO 6 INCHES BELOW TOP OF FOUNDATION FILLED WITH SILICON SEALANT. FREE GROUND CONDUCTOR ABOVE TOP OF FOUNDATION TO 2 FEET.

DESIGN: AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL  
SUPPORT FOR HIGHWAY SIGNS, LUMINAIRES AND  
TRAFFIC SIGNALS, 1994 EDITION.

CONSTRUCTION: MASS 2015

WIND LOAD: 100 mph w/ 1.3 GUST FACTOR

1. TYPE A PEDESTRIAN LUMINAIRE SHALL MEET THE FOLLOWING REQUIREMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - LAMP TYPE: LED
  - WATTAGE: 31W
  - IES DISTRIBUTION: TYPE II OR V
  - BASIS OF DESIGN: STERNBERG VILLA 1730LED-1RND WITH CLEAR ACRYLIC EXTERIOR LENS, MEDIUM DIFFUSE INTERNAL DOME LENS.
2. TYPE B PEDESTRIAN LUMINAIRE SHALL MEET THE FOLLOWING REQUIREMENTS. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  - LAMP TYPE: LED
  - WATTAGE: 40W
  - IES DISTRIBUTION: TYPE V
  - BASIS OF DESIGN: STERNBERG ACORN POST TOP 1930-VC0B-4L-MDL02 WITH TEXTURED ACRYLIC LENS.
3. SUPPLY FIXTURES AS SPECIFIED OR PROVIDE APPROVED EQUAL THAT SATISFIES THE LIGHTING DESIGN CRITERIA ON SHEET 18 AND SPECIFICATIONS.
4. LOCATE THE HANDHOLE ON THE SIDE OF THE POLE AWAY FROM ONCOMING TRAFFIC FLOW.
5. F&I FUSED DISCONNECT LOCATED IN THE POLE BASE. THE ELECTRICAL DISCONNECT SHALL BE UL LISTED, 600 VOLT RATED, AND APPROVED FOR WET LOCATIONS.

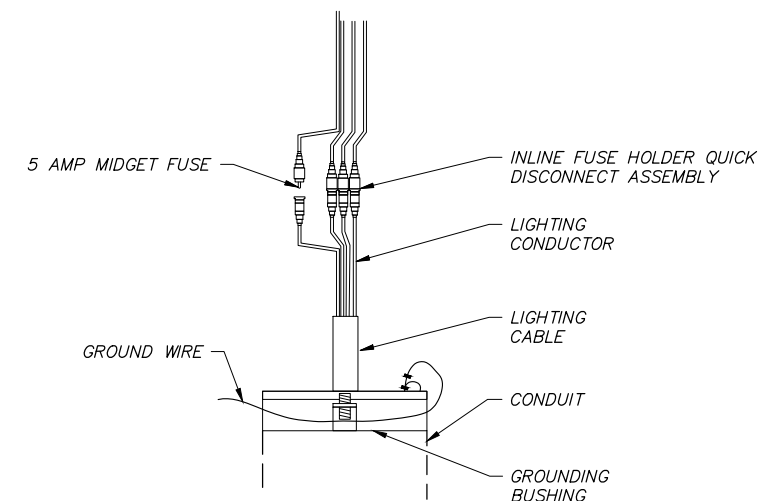


1 TYPE "A" PEDESTRIAN ELECTROLIER  
114 SCALE: NTS ELEVATION VIEW

**2**  
**114**



**HISTORIC DISTRICT TYPE "B"**  
**PEDESTRIAN ELECTROLIER**

SCALE: NTS ELEVATION VIEW



ILLUMINATION CIRCUIT FUSE  
HOLDER DETAIL

5  
114 SCALE: NTS

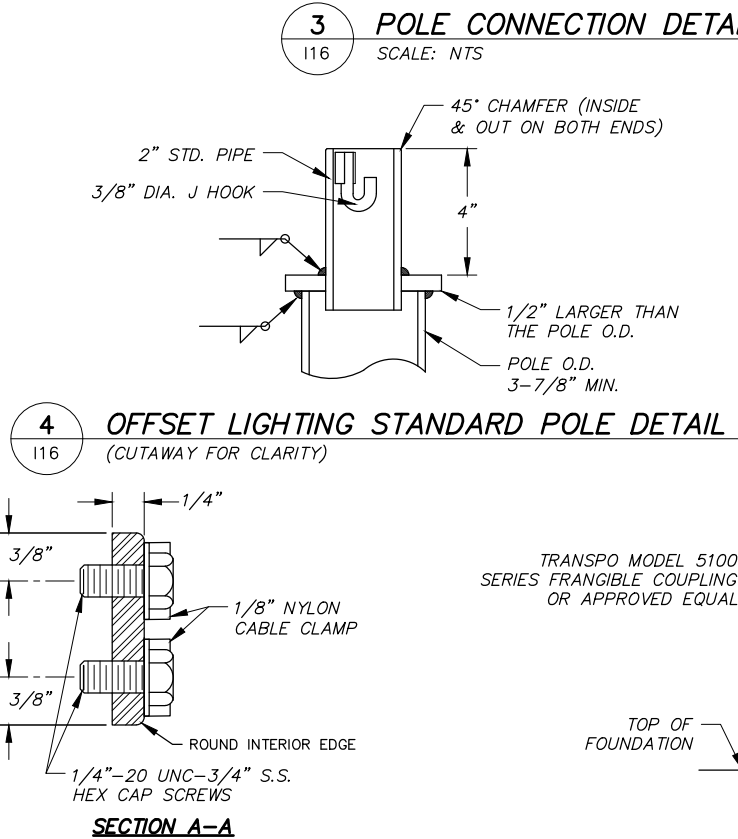
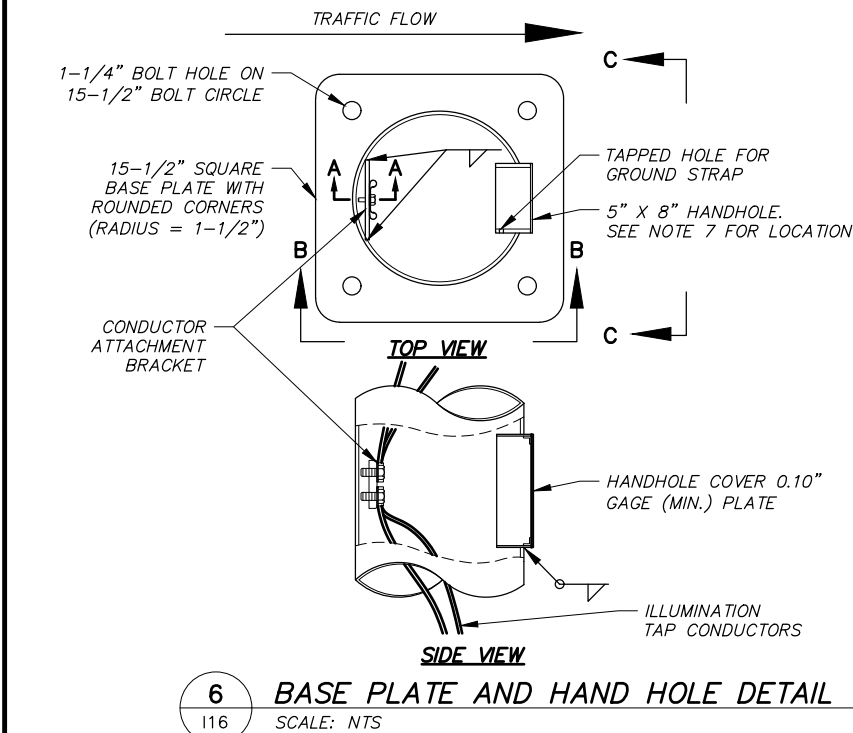
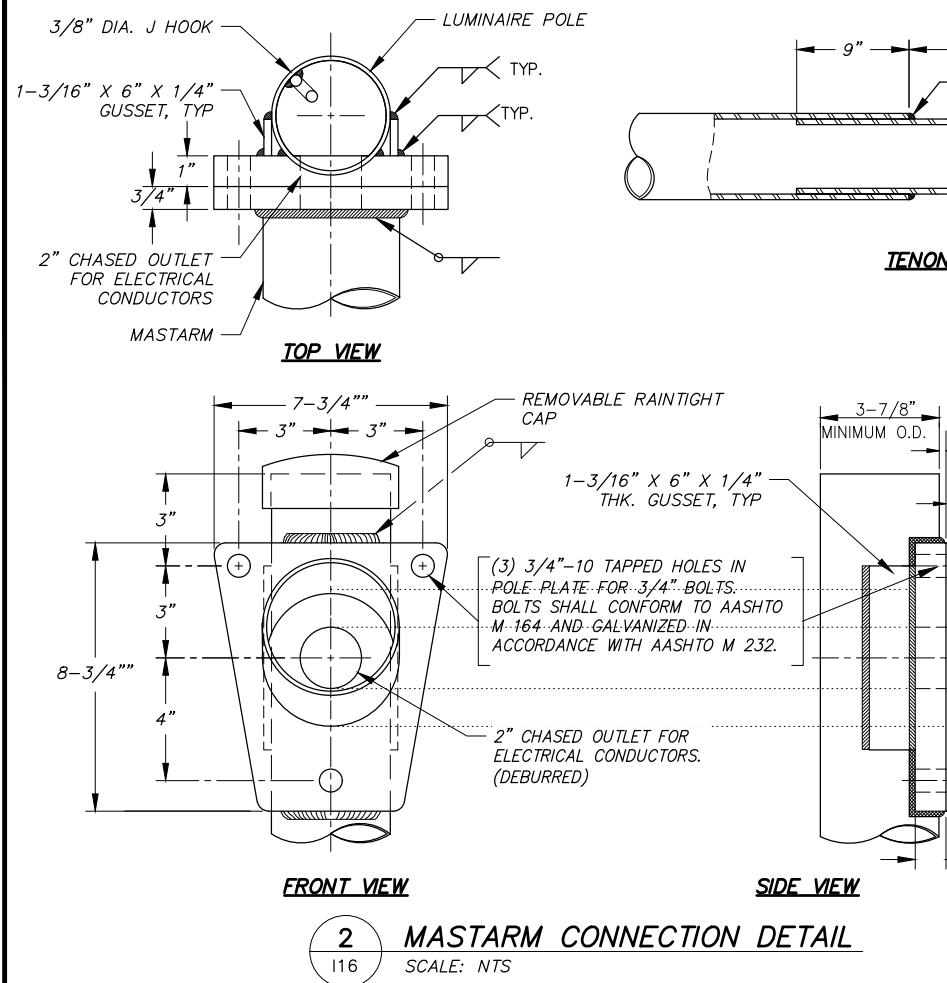
<b>RECORD DRAWING</b> 1. DATA PROVIDED BY: _____ TITLE: _____ THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED. CONTRACTOR: _____ BY: _____ TITLE: _____ DATE: _____ 2. DATA TRANSFERRED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ 3. BASED ON PERIODIC FIELD OBSERVATIONS BY THE ENGINEER (OR AN INDIVIDUAL UNDER HIS/HER DIRECT SUPERVISION), THE CONTRACTOR—PROVIDED DATA APPEARS TO REPRESENT THE PROJECT AS CONSTRUCTED. DATA TRANSFER CHECKED BY: _____ TITLE: _____ COMPANY: _____ DATE: _____ BY: _____		<table border="1"> <thead> <tr> <th>DATA</th> <th>DRAWN BY</th> <th>CHECKED BY</th> </tr> </thead> <tbody> <tr><td>BASE</td><td>KE</td><td>KE</td></tr> <tr><td>TOPOGRAPHY</td><td>KE</td><td>KE</td></tr> <tr><td>PROFILE</td><td>KE</td><td>KE</td></tr> <tr><td>STORM SEWER</td><td>KE</td><td>KE</td></tr> <tr><td>WATER/SANITARY SEWER</td><td>KE</td><td>KE</td></tr> <tr><td>GAS</td><td>KE</td><td>KE</td></tr> <tr><td>TELEPHONE/CABLE TV</td><td>KE</td><td>KE</td></tr> <tr><td>ELECTRIC</td><td>KE</td><td>KE</td></tr> <tr><td>DESIGN</td><td>KE</td><td>KE</td></tr> <tr><td>QUANTITIES</td><td>KE</td><td>KE</td></tr> <tr><td>PRELIMINARY/FINAL</td><td>KE</td><td>KE</td></tr> <tr><td>MUNI. FINAL CHECK</td><td>KE</td><td>KE</td></tr> </tbody> </table>		DATA	DRAWN BY	CHECKED BY	BASE	KE	KE	TOPOGRAPHY	KE	KE	PROFILE	KE	KE	STORM SEWER	KE	KE	WATER/SANITARY SEWER	KE	KE	GAS	KE	KE	TELEPHONE/CABLE TV	KE	KE	ELECTRIC	KE	KE	DESIGN	KE	KE	QUANTITIES	KE	KE	PRELIMINARY/FINAL	KE	KE	MUNI. FINAL CHECK	KE	KE	<table border="1"> <thead> <tr> <th>FIELD BOOKS</th> <th>TBM NO.</th> <th>LOCATION</th> <th>ELEV.</th> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> <th>BY</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>							FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY																																																																																	 3909 ARCTIC BLVD, SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102		1/31/23 65% DESIGN SUBMITTAL  1/31/2023				<b>PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT</b> PROJECT NO. 21-22 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET <b>PEDESTRIAN ELECTROLIER DETAILS</b>				SCALE HOR. 1"=20' VER. N/A GRID 1230 STATUS: PRELIMINARY DATE JAN 2023 SHEET 114 of 119	
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\\kin-epod-fs\kin-Files\PROJECTS\00704\_4th Ave G to E\DWGS\C\Sheets\00704\_07\_116 LIGHT STND.dwg, 1:2, 1/31/23 at 09:36 by AARON.FINKLER



RECORD DRAWING		DATA		DRAWN BY		CHECKED BY		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT	
1. DATA PROVIDED BY: _____ TITLE: _____		BASE		KE		KE		PROJECT NO. 21-22	
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CONTRACTOR: _____		PROFILE		KE		KE		LIGHTING STANDARD	
BY: _____ TITLE: _____ DATE: _____		STORM SEWER		KE		KE		SCALE HOR. 1"=20' VER. N/A	
2. DATA TRANSFERRED BY: _____ TITLE: _____		WATER/SANITARY SEWER		KE		KE		GRID 1230	
COMPANY: _____ DATE: _____		GAS		KE		KE		DATE JAN 2023	
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.		TELEPHONE/CABLE TV		KE		KE		STATUS: PRELIMINARY	
DATA TRANSFER CHECKED BY: _____ TITLE: _____		ELECTRIC		KE		KE		SHEET 116 of 119	
COMPANY: _____ DATE: _____		DESIGN		KE		KE			
BY: _____		QUANTITIES		KE		KE			
		PRELIMINARY/FINAL		KE		KE			
		MUN. FINAL CHECK		KE		KE			
		PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM			
						REVISIONS			
						CONSULTANT			
						SEAL			

**KINNEY**  
ENGINEERING, LLC  
3909 ARCTIC BLVD, SUITE 400  
ANCHORAGE, ALASKA 99503  
(907) 346-2373  
CERT. OF AUTH. NO. AECL 1102

1/31/23  
65% DESIGN  
SUBMITTAL

1/31/2023

1/31/23  
65% DESIGN  
SUBMITTAL

1/31/2023





117 SCALE: NTS

14.5"

10. GRADE IN DEPTH TABLE REFERS TO FILL SLOPES. IF FOUNDATION IS IN A CUT SLOPE ASSUME FLAT GRADE IN TABLE. TO DETERMINE GRADE IN FILL SLOPES, USE THE MOST SEVERE GRADE FOUND WITHIN AN 8 FOOT RADIUS OF THE CENTER OF THE FOUNDATION. SLOPES STEEPER THAN 1.5:1 REQUIRE ENGINEERED DEPTH CALCULATION.

**PROJECT MANAGEMENT AND ENGINEERING  
DEPARTMENT**

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PROJECT NO. 21-22

4TH AVENUE SIGNALS AND LIGHTING  
UPGRADE - G STREET TO E STREET

**ROADWAY LUMINAIRE POLE  
FOUNDATION DETAIL**

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SCALE: HOR. 1"=20'    GRID 1230    DATE JAN 2023    117 of 120







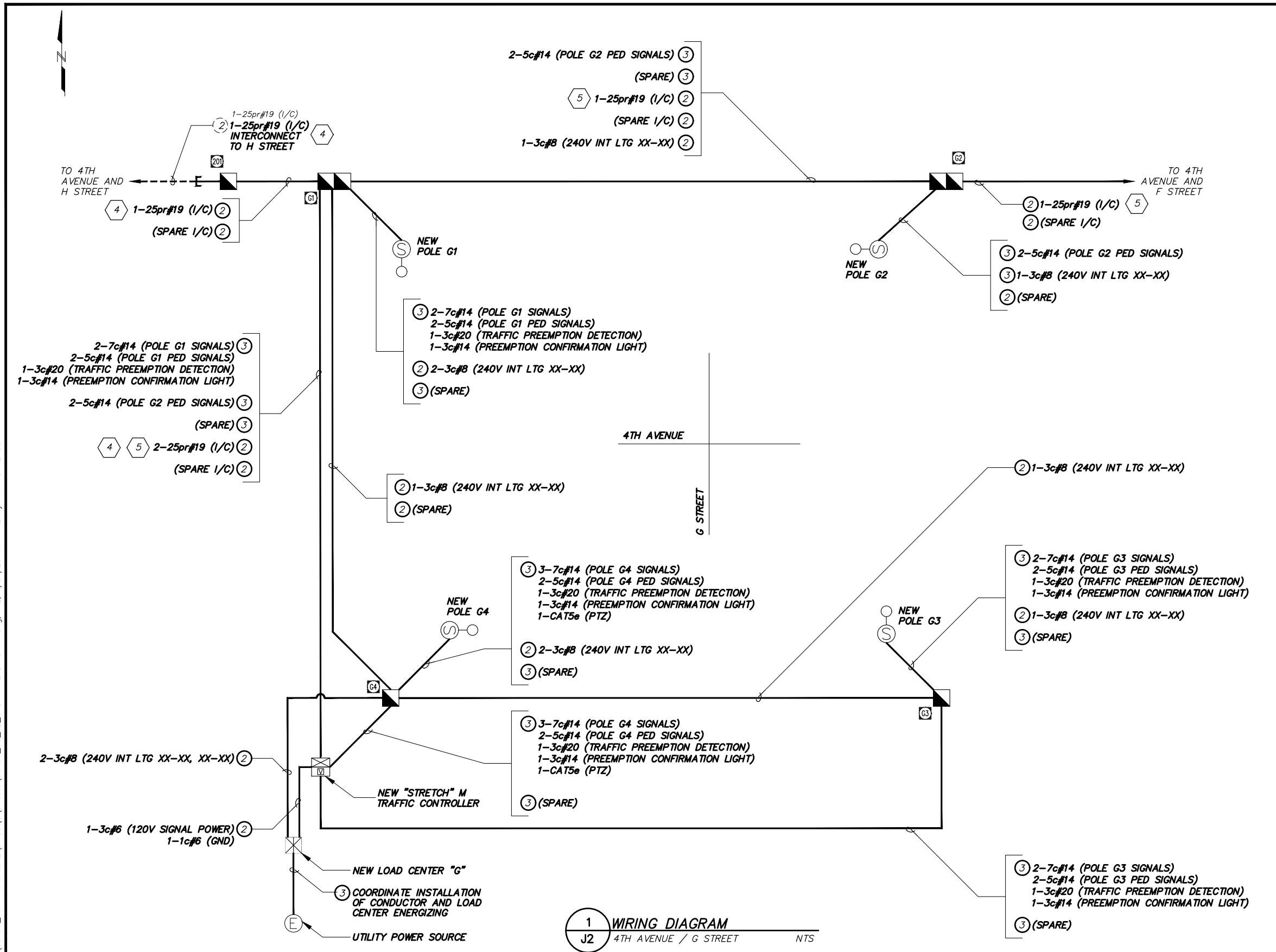
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FINAL CHECK	KE	KE	<table><tr><td>FIELD BOOKS</td><td>T&amp;M 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\\kin-epod-fs\KE-Files\PROJECTS\00704\_4th Ave G to E\DWGS\C\Sheets\00704\_08\_U2\_G ST WIRE DIAGRAM.dwg, 1:2, 1/31/23 at 14:12 by IAN.MCPHERSON



**SUPPLEMENTAL LEGEND**

----- EXISTING CONDUIT RUN  
———— NEW GALVANIZED RIGID METAL CONDUIT RUN  
---E--- CONNECTION BETWEEN EXISTING AND NEW CONDUIT

EXISTING (2) PROPOSED (3) EXTEND EXISTING (3) SIZE OF CONDUIT IN INCHES

**CABLE LABELS:**

NUMBER OF CABLES REQUIRED  
NUMBER OF CONDUCTORS(c) OR PAIRS(pr),  
IF OTHER THAN SINGLE CONDUCTOR  
CONDUCTOR SIZE IN AWG

1-3c#8(-----)

CIRCUIT TYPE OR LOOP NUMBER  
PED = PEDESTRIAN  
PPB = PEDESTRIAN PUSH BUTTON  
I/C = INTERCONNECT  
TC PWR = TRAFFIC CONTROLLER POWER  
GND = BARE COPPER GROUND WIRE  
INT = INTERSECTION  
LTG = LIGHTING  
ST = STREET

**CABLE FONT KEY:**

**BOLD** = NEW CABLE  
ITALIC = EXISTING CABLE  
(PRESERVE)  
SMALL = REMOVE CABLE

**WIRING DIAGRAM NOTES:**

- REMOVE ALL ABANDONED CONDUITS FROM EXISTING JUNCTION BOXES TO REMAIN.
- CONTRACTOR SHALL VERIFY EXISTING INTERCONNECT ROUTING PRIOR TO REMOVAL.
- UNLESS OTHERWISE NOTED, F&I 1 BARE #8 GROUND CONDUCTOR IN ALL CONDUITS.
- F&I ONE CONTINUOUS UNSPLICED INTERCONNECT CABLE BETWEEN 4TH AVE & G ST. CONTROLLER CABINET AND THE 4TH AVE. & H ST. CONTROLLER CABINET.
- F&I ONE CONTINUOUS UNSPLICED INTERCONNECT CABLE BETWEEN 4TH AVE & G ST. CONTROLLER CABINET AND THE 4TH AVE. & F ST. CONTROLLER CABINET.

<b>RECORD DRAWING</b>		<b>DATA</b>		<b>DRAWN BY</b>		<b>CHECKED BY</b>		<b>FIELD BOOKS</b>		<b>TBM NO.</b>		<b>LOCATION</b>		<b>ELEV.</b>		<b>REV.</b>		<b>DATE</b>		<b>DESCRIPTION</b>		<b>BY</b>	
1. DATA PROVIDED BY: _____ TITLE: _____		BASE		KE		KE																	
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.		TOPOGRAPHY		KE		KE																	
CONTRACTOR: _____		PROFILE		KE		KE																	
BY: _____ TITLE: _____ DATE: _____		STORM SEWER		KE		KE																	
2. DATA TRANSFERRED BY: _____ TITLE: _____		WATER/SANITARY SEWER		KE		KE																	
COMPANY: _____ DATE: _____		GAS		KE		KE																	
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.		TELEPHONE/CABLE TV		KE		KE																	
DATA TRANSFER CHECKED BY: _____ TITLE: _____		ELECTRIC		KE		KE																	
COMPANY: _____ DATE: _____		DESIGN		KE		KE																	
BY: _____		QUANTITIES/FINAL		KE		KE																	
		PRELIMINARY/FINAL		KE		KE																	
		MUNI. FINAL CHECK		KE		KE																	
		PLAN CHECK																					
		CONSTRUCTION RECORD																					
		VERTICAL DATUM																					
		REVISIONS																					
		CONSULTANT																					
		SEAL																					

**KINNEY**  
ENGINEERING, LLC  
3909 ARCTIC BLVD, SUITE 400  
ANCHORAGE, ALASKA 99503  
(907) 346-2373  
CERT. OF AUTH. NO.  
AECL 1102

**1/31/23**  
**65% DESIGN**  
**SUBMITTAL**

**1/31/2023**

**PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT**

PROJECT NO. 21-22

4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET

**G STREET WIRING DIAGRAM**

SCALE HOR. N/A VER. N/A

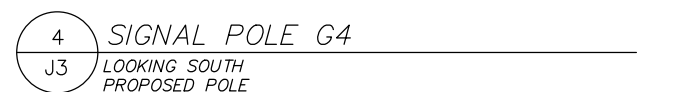
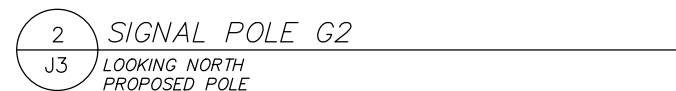
GRID 1230

DATE JAN 2023

STATUS: PRELIMINARY

J2 of J11





1. FOR LUMINAIRE AND LAMP SCHEDULES SEE ILLUMINATION SHEETS.
2. SIGNAL POLES SHALL BE FABRICATED IN ACCORDANCE WITH M.A.S.S. STANDARD DETAILS. SEE SHEET JB FOR SIGNAL POLE FOUNDATION DETAIL.
3. XX = SIGN POST NUMBER, REFER TO SIGN SUMMARY SHEETS FOR MORE INFORMATION.
4. ALIGN LUMINAIRE MAST ARMS WITH SIGNAL MAST ARMS.
5. POLE G2 IS A TRAFFIS SIGNAL POLE WITH 35' MAST ARM POLE DESIGN FROM MASS DETAIL 80-26A. F&I A COVER PLATE AND BOLTS TO COVER THE EXPOSED MAST ARM MOUNTING PLATE AND WIRE WAY.
6. F&I SPIDER BOX RECEPTACLE PER DETAIL ON SHEET \_\_\_\_\_. SEE SHEET J2 FOR CIRCUIT INFORMATION.

4TH AVE AND G ST TRAFFIC SIGNAL FOUNDATION AND JUNCTION BOX SCHEDULE							
NUMBER				LOCATION		TOP OF FOUNDATION ELEVATION	REMARKS
POLE	J.B.	L.C.	CONT	STATION	OFFSET		
G1				30+61.4	28.7' LT	100.2'	NEW POLE AND FOUNDATION. SEE NOTE 2 BELOW
G2				31+20.1	25.1' LT	100.4'	NEW POLE AND FOUNDATION. SEE NOTE 2 BELOW
G3				31+14.9	26.3' RT	100.2'	NEW POLE AND FOUNDATION. SEE NOTE 2 BELOW
G4				30+65.0	28.4' RT	100.2'	NEW POLE AND FOUNDATION. SEE NOTE 2 BELOW
	G1			30+61.4	28.7' LT	N/A	NEW TYPE 3 J-BOX
	G2			31+38.1	24.9' LT	N/A	NEW TYPE 3 J-BOX
	G3			31+27.8	23.2' RT	N/A	NEW TYPE 2 J-BOX
	G4			30+57.0	22.6' RT	N/A	NEW TYPE 2 J-BOX
		X		SEE SHEET 14 FOR LOCATION			
			X	30+70.4	44.6' RT	100.1'	SEE NOTE 1 BELOW

1. F&I NEW "STRETCH" M CONTROLLER FOUNDATION. ELEVATION IS TO TOP OF VAULT, INSTALL ADJACENT SIDEWALK FLUSH WITH VAULT.
2. SEE SHEET JB FOR SIGNAL POLE FOUNDATION DETAIL. TOP OF SIGNAL FOUNDATION SHALL BE FLUSH WITH SURROUNDING SIDEWALK.

TRAFFIC PREEMPTION SCHEDULE					
LOCATION	DETECTOR NO.	PHASE CALL	FACING DIRECTION	PREEMPTION PRIORITY (2)	MODEL NO.
POLE G1	1	2	E	A	711
POLE G3	3	6	W	B	711
POLE G4	4	8	N	C	721

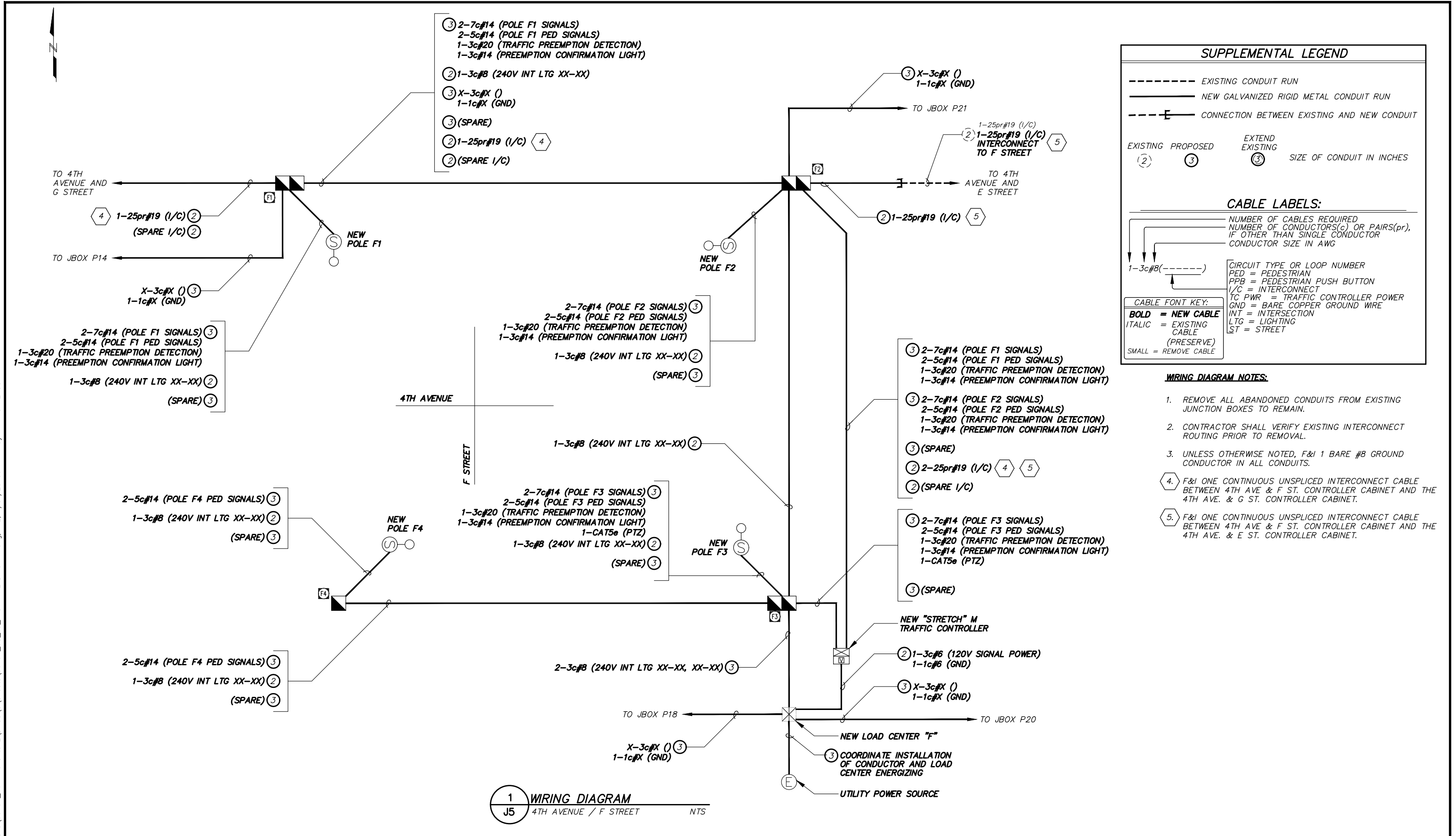
\\kin-epod-fs\KE-Files\PROJECTS\00704\_4th Ave G to E\DWGS\C\Sheets\00704\_08\_J3\_G ST SIGNAL PROF AND SCH..dwg, 1:2, 1/31/23 at 14:13 by IAN.MCPHERSON[illegible]





PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
PROJECT NO. 21-22		SCHEDULE B	
4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET			
4TH AVE AND F STREET SIGNALIZATION PLAN			
HOR. 1"=10'		GRID 1230	DATE JAN 2023
SCALE			14



\\kin-epod-fs\KE-Files\PROJECTS\00704\_4th Ave G to E\DWGS\C\Sheets\00704\_08\_J5\_F ST WIRE DIAGRAM.dwg, 1:2, 1/31/23 at 14:14 by IAIN.MCPHERSON



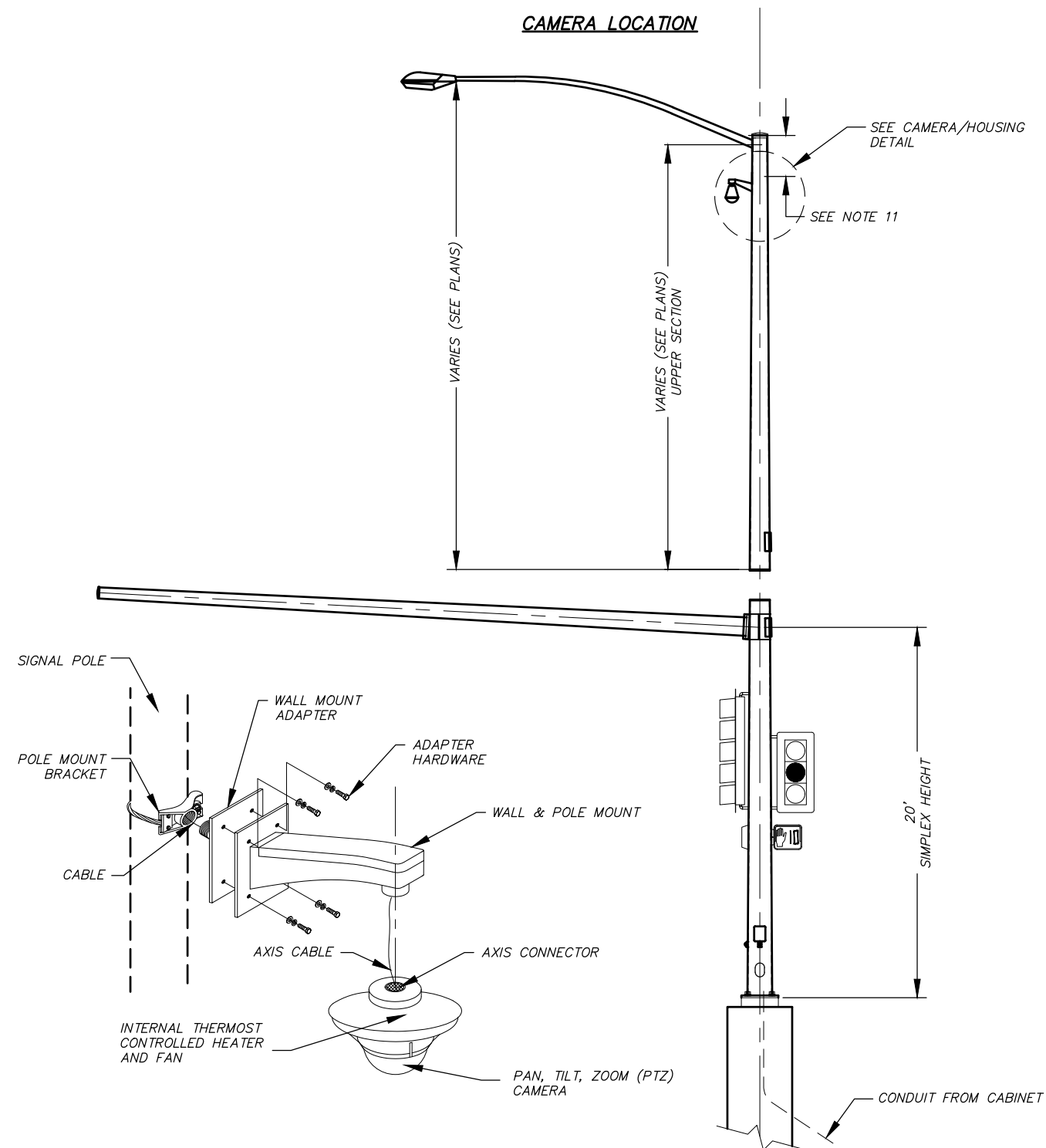
RECORD DRAWING		DATA		DRAWN BY	CHECKED BY								FIELD BOOKS		TBM NO.	LOCATION		ELEV.	REV.	DATE	DESCRIPTION	BY	 <b>KINNEY</b> ENGINEERING, LLC 3909 ARCTIC BLVD., SUITE 400 ANCHORAGE, ALASKA 99503 (907) 346-2373 CERT. OF AUTH. NO. AECL 1102	<div>1/31/23</div> <div>65% DESIGN</div> <div>SUBMITTAL</div> <div>1/31/2023</div>		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
1. DATA PROVIDED BY: _____ TITLE: _____		BASE	KE	KE																		PROJECT NO. 21--22				4TH AVENUE SIGNALS AND LIGHTING UPGRADE - G STREET TO E STREET			
THIS WILL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT AS CONSTRUCTED.		TOPOGRAPHY	KE	KE																		F STREET WIRING DIAGRAM							
CONTRACTOR: _____ TITLE: _____ DATE: _____		PROFILE	KE	KE																									
BY: _____		STORM SEWER	KE	KE																									
2. DATA TRANSFERRED BY: _____ TITLE: _____		WATER/SANITARY SEWER	KE	KE																									
COMPANY: _____ DATE: _____		GAS	KE	KE																									
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.		TELEPHONE/CABLE TV	KE	KE																									
DATA TRANSFER CHECKED BY: _____ TITLE: _____		ELECTRIC	KE	KE																									
COMPANY: _____ DATE: _____		DESIGN	KE	KE																									
BY: _____		QUANTITIES	KE	KE																									
		PRELIMINARY/FINAL	KE	KE																									
		MUN. FINAL CHECK	KE	KE																									
		PLAN CHECK																											
		CONSTRUCTION RECORD																											
		VERTICAL DATUM																											
		REVISIONS																											
		CONSULTANT																											
		SEAL																											

SCALE	HOR. N/A	GRID 1230	DATE JAN 2023	J5 of J11
	VER. N/A	STATUS: PRELIMINARY	SHEET	



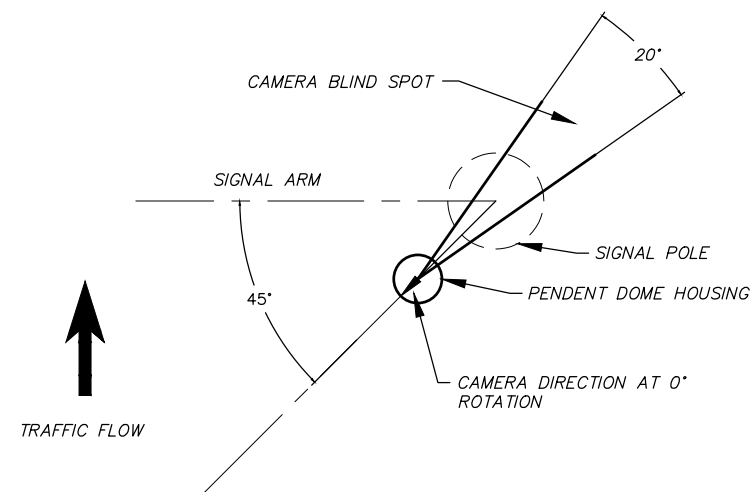




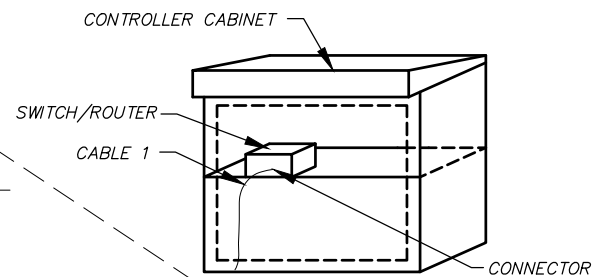


1 PTZ CAMERA/HOUSING DETAIL  
J7 SCALE: NTS

2 PTZ CAMERA SYSTEM LAYOUT  
J7 SCALE: NTS



3 PTZ CAMERA/PENDENT DOME ORIENTATION  
J7 SCALE: NTS



MATERIAL REQUIREMENTS	
ALL ASSEMBLIES	
POLE MOUNT BRACKET	ASTRO- BRAC AB-0160-45-SS-PNC
WALL MOUNT ADAPTER	SUPPLIED BY MOA SIGNAL ELECTRONICS
ADAPTOR HARDWARE	SUPPLIED BY MOA SIGNAL ELECTRONICS
WALL AND POLE MOUNT	AXIS T91L61
CABLE 1	CAT-5E, SHIELDED, DIRECT BURIAL
CONNECTOR	SHIELDED, ENVIRO HARDENED RJ-45
MEMORY CARD	SEE SPECIFICATIONS
STRAIN RELIEF	REMKE 2201-013 OR APPROVED EQUAL
ATTACHMENT KIT	T94A01C
CAMERA/HOUSING	
CAMERA/HOUSING	SEE SPECIFICATIONS

NOTES:

1. *PROTECT CABLE ENDS FROM MOISTURE AT ALL TIMES.*
2. *PULL CABLE IN ACCORDANCE WITH MASS DIVISION 80. PULL CABLE SO THAT THERE IS SUFFICIENT LENGTH TO REACH THE TOP OF THE CONTROLLER CABINET. CABLES ARE TO BE PULLED WITHOUT CONNECTORS ATTACHED. WHEN CABLE HAS BEEN PULLED TO FINAL LOCATIONS, SEAL ENDS OF CABLES. MOA SIGNAL ELECTRONICS WILL INSTALL CONNECTORS.*
3. *CABLE RUNS ARE TO BE MADE CONTINUOUS WITHOUT SPLICES.*
4. *CABLE WITH DAMAGED INSULATION, OR THAT HAS BEEN CRIMPED OR BENT BEYOND THE MINIMUM BEND RADIUS MUST BE REPLACED AT NO ADDITIONAL COST.*
5. *THE MINIMUM CABLE BEND RADIUS SHALL NOT EXCEED THE MANUFACTURERS RECOMMENDATIONS.*
6. *ENSURE ADEQUATE LENGTH OF EACH CABLE TO ALLOW WORK ON THE ENDS OF THE CABLE IN THE CONTROLLER CABINET AND THE CAMERA MOUNTING LOCATION.*
7. *MOUNT THE PENDENT DOME HOUSING AT A 45° ANGLE AT THE REQUIRED HEIGHT. ANGLE AND HEIGHT MAY BE ADJUSTED BY THE ENGINEER TO AVOID WELDS, APPENDICES AND TO IMPROVE SIGHT DISTANCE.*
8. *ADJUST CAMERA INSIDE THE PENDENT DOME HOUSING AS SHOWN. ENSURE THAT THE CAMERA IS MOUNTED AT A 0° TILT ANGLE.*
9. *INSTALL WATERTIGHT THREADED RIGID COMPRESSION CONNECTOR WHERE CABLE PASSES THROUGH THE POLE.*
10. *AT CABLE END LOCATIONS PROVIDE A SECURE CONNECTION USING CONNECTOR PARTS SPECIFIED. AFTER CONNECTION IS MADE, COVER SPLICE WITH HEAT SHRINK. PROVIDE A STRAIN RELIEF CABLE AS NECESSARY.*
11. *CAMERA/HOUSING MOUNTING HEIGHT TO BE DETERMINED IN THE FIELD BY THE ENGINEER AND MOA SIGNAL ELECTRONICS.*

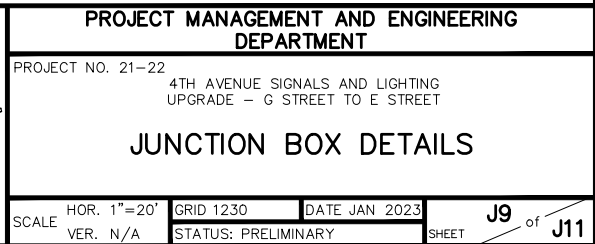
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\\kin-epod-fs\KE-Files\PROJECTS\00704\_4th Ave G to E\DWGS\C\Sheets\00704\_08\_j9 JBOX DETAILS.dwg, 1:2, 1/4/23 at 15:40 by AARON.FINKLER



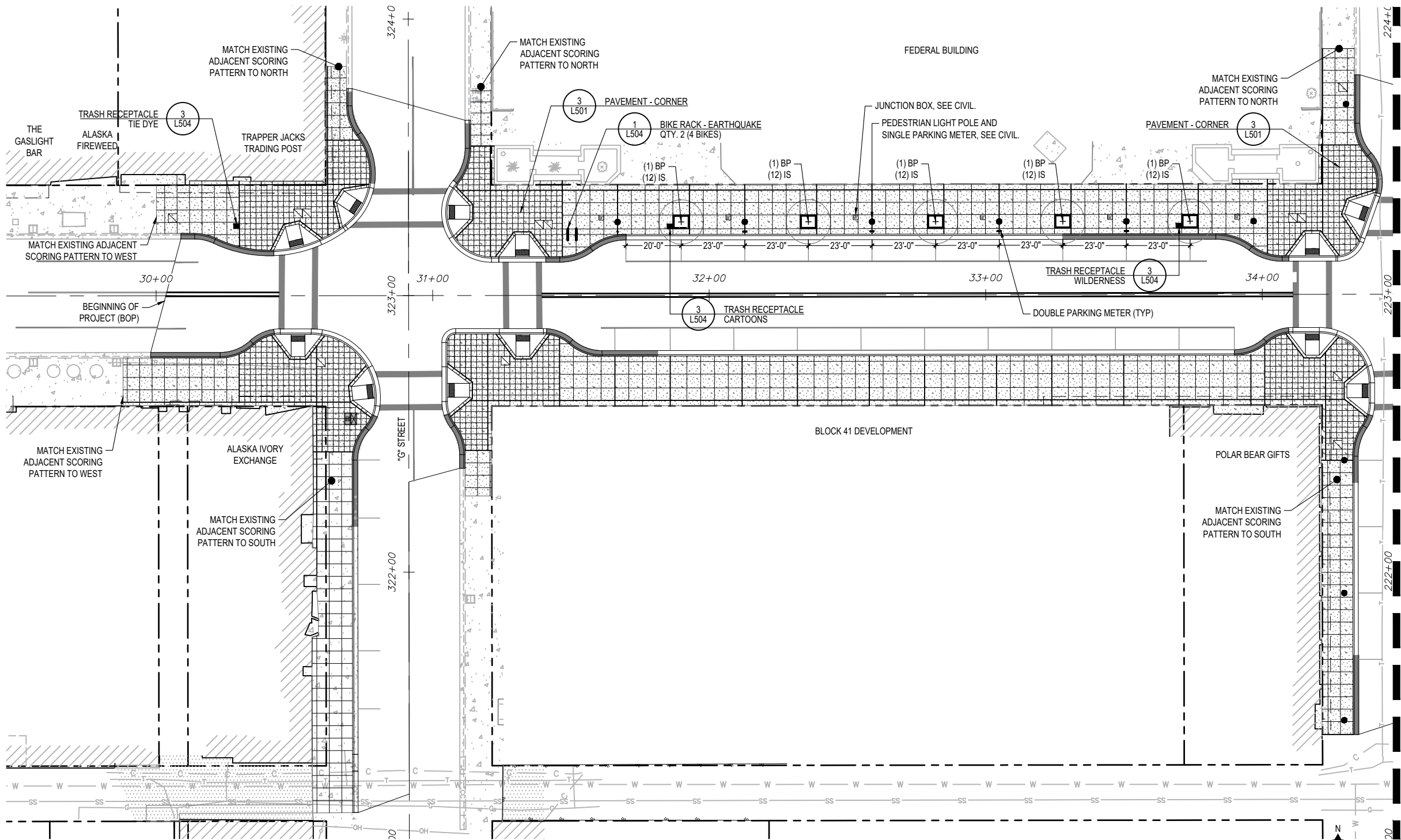












SEE 1/L101

- 65% NOTES:
- COORDINATE PARKING METER LOCATIONS.
  - COORDINATE SCORING PATTERN TO BE USED AT PROJECT LIMITS BETWEEN OLD AND NEW SCORING

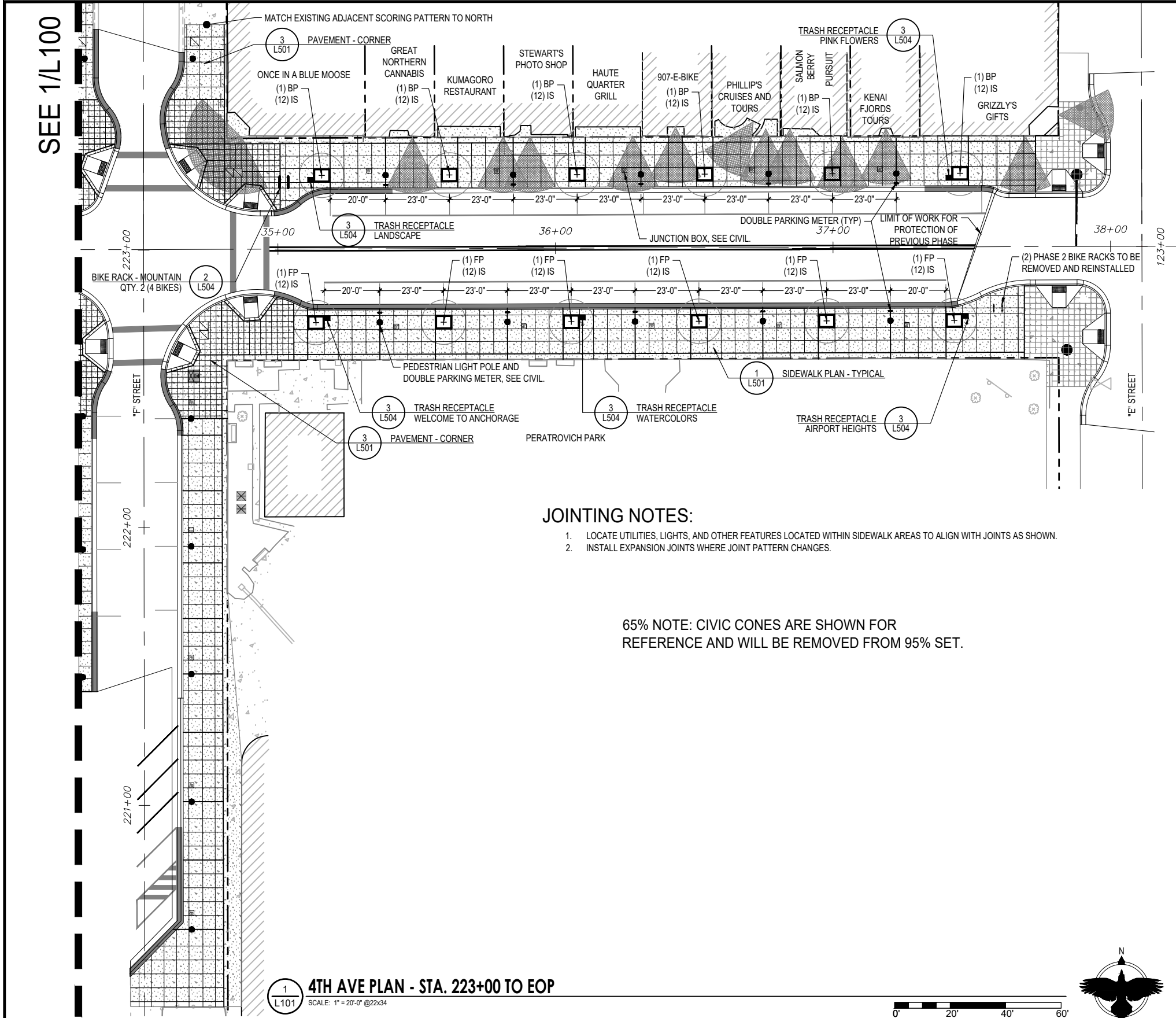
1 L100 4TH AVE PLAN - BOP TO STA. 223+00  
SCALE: 1" = 20'-0" @22x34



<b>RECORD DRAWING</b>		DATA		DRAWN BY	CHECKED BY							 <b>Corvus Design</b> Landscape Architecture www.corvus-design.com Anchorage - 907.222.2859 2506-B Fairbanks St. 99503		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT			
DATA PROVIDED BY:		BASE	TOPOGRAPHY	PROFILE	STORM SEWER	WATER/SANITARY SEWER	GAS	TELEPHONE/CABLE TV	ELECTRIC	DESIGN	QUANTITIES			PRELIMINARY/FINAL	MUNI. FINAL CHECK	PROJECT NO. 21-22 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - E STREET TO G STREET	
TITLE:		FIELD BOOKS		TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION	BY	STREETSCAPE PLAN - BOP TO SAT 223+00						
CONTRACTOR:																	
DATE:																	
THIS SHALL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT S CONSTRUCTED.																	



J:\KIN-22-01 4th Ave Phase 3\2 - CAD\Corvus-Sheets - 4th Ave.dwg, 1:2, 1/31/23 at 12:49 by BRADLEY LITTLE



JOINTING NOTES:

1. LOCATE UTILITIES, LIGHTS, AND OTHER FEATURES LOCATED WITHIN SIDEWALK AREAS TO ALIGN WITH JOINTS AS SHOWN.
2. INSTALL EXPANSION JOINTS WHERE JOINT PATTERN CHANGES.

65% NOTE: CIVIC CONES ARE SHOWN FOR REFERENCE AND WILL BE REMOVED FROM 95% SET.

1 L101 4TH AVE PLAN - STA. 223+00 TO EOP  
SCALE: 1" = 20'-0" @22x34

PLANTING SCHEDULE - PLANTERS ONLY

DECIDUOUS TREES- SEE DETAIL:

QTY.	SYMBOL	LABEL	BOTANICAL NAME	COMMON NAME	SIZE	FURNISHED	NOTES
11		BP	BETULA PAPYRIFERA 'GRACILIS'	CUTLEAF WEEPING BIRCH	2 1/2" CAL	B&B	SINGLE STEM, SPECIMEN GRADE, SELECT FOR HIGHER BRANCHING
6		FP	FRAXINUS PENNSYLVANICA 'RUGBY'	PRAIRIE SPIRE GREEN ASH	2 1/2" CAL	B&B	SINGLE STEM, SPECIMEN GRADE, SELECT FOR HIGHER BRANCHING

PERENNIALS - SEE DETAIL:

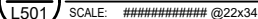
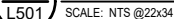
QTY.	SYMBOL	LABEL	BOTANICAL NAME	COMMON NAME	SIZE	FURNISHED	NOTES
204		IS	IRIS SETOSA	WILD IRIS	#2 (2 DIVISIONS MIN, 12" HT MIN.)	CG	18" OC TRIANG SPACING

GENERAL NOTES:

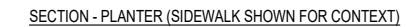
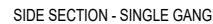
1. CONSTRUCT PROJECT TO MEET MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS.)
2. ALL PLANTS: NURSERY GROWN TO ANSI Z60.1.

RECORD DRAWING DATA PROVIDED BY:  TITLE:  CONTRACTOR:  DATE:  THIS SHALL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT S CONSTRUCTED.	DATA	DRAWN BY KE	CHECKED BY KE	20 0 0 20 40						 Landscape Architecture www.corvus-design.com Anchorage - 907.222.2859 2506-B Fairbanks St. 99503	01/25/2023	PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT PROJECT NO. 21-22 4TH AVENUE SIGNALS AND LIGHTING UPGRADE - E STREET TO G STREET STREETSCAPE PLAN - STA 223+00 TO EOP	SCALE HOR. N/A VER. N/A	GRID 1230, 1231 STATUS BID SET	DATE JAN. 2022	L101 SHEET	of L101
	PLAN CHECK	CONSTRUCTION RECORD	VERTICAL DATUM	REVISIONS	CONSULTANT	SEAL											

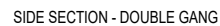








NOTE: DECORATIVE RAILS TO MATCH EXISTING PHASE 2 PLANTERS.



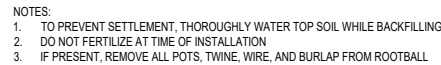
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SCALE: ##### @22x34

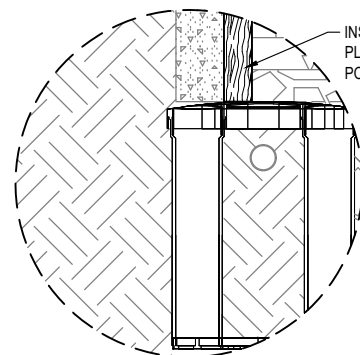
L502 SCALE: ##### @22x34

J:\KIN-22-01 4th Ave Phase 3\2 - CAD\Corvus-Sheets - 4th Ave.dwg, 1:2, 1/31/23 at 12:49 by BRADLEY LITTLE

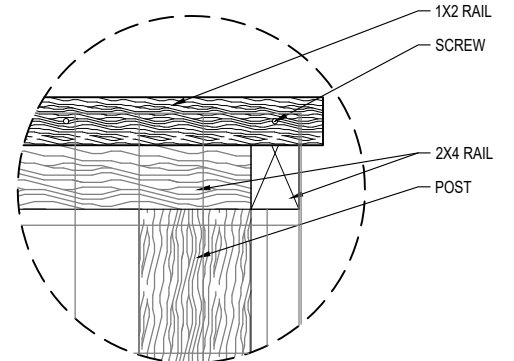




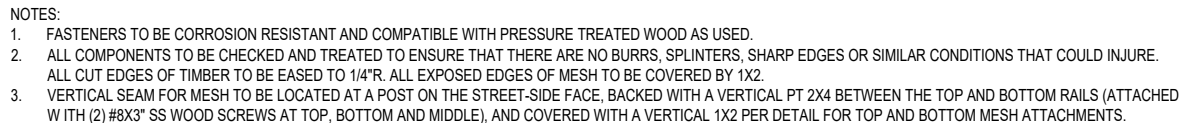
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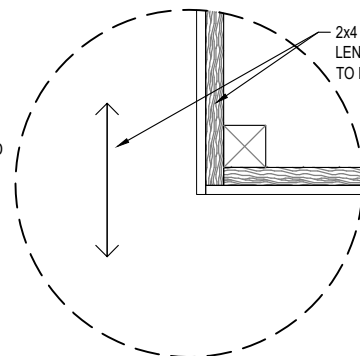
INSTALL POST ADJACENT TO  
PLANTER CORNERS. PLACE  
POST BOTTOM ON SOIL CELL.



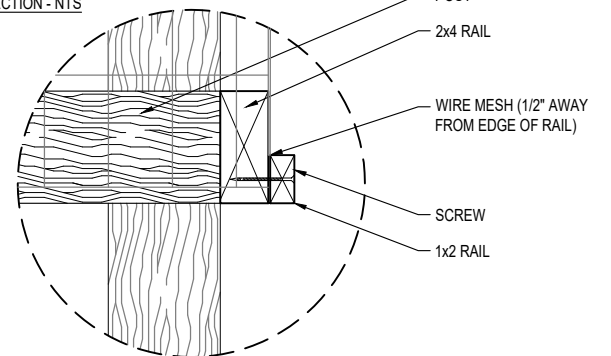
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## SCALE: ##### @22x34



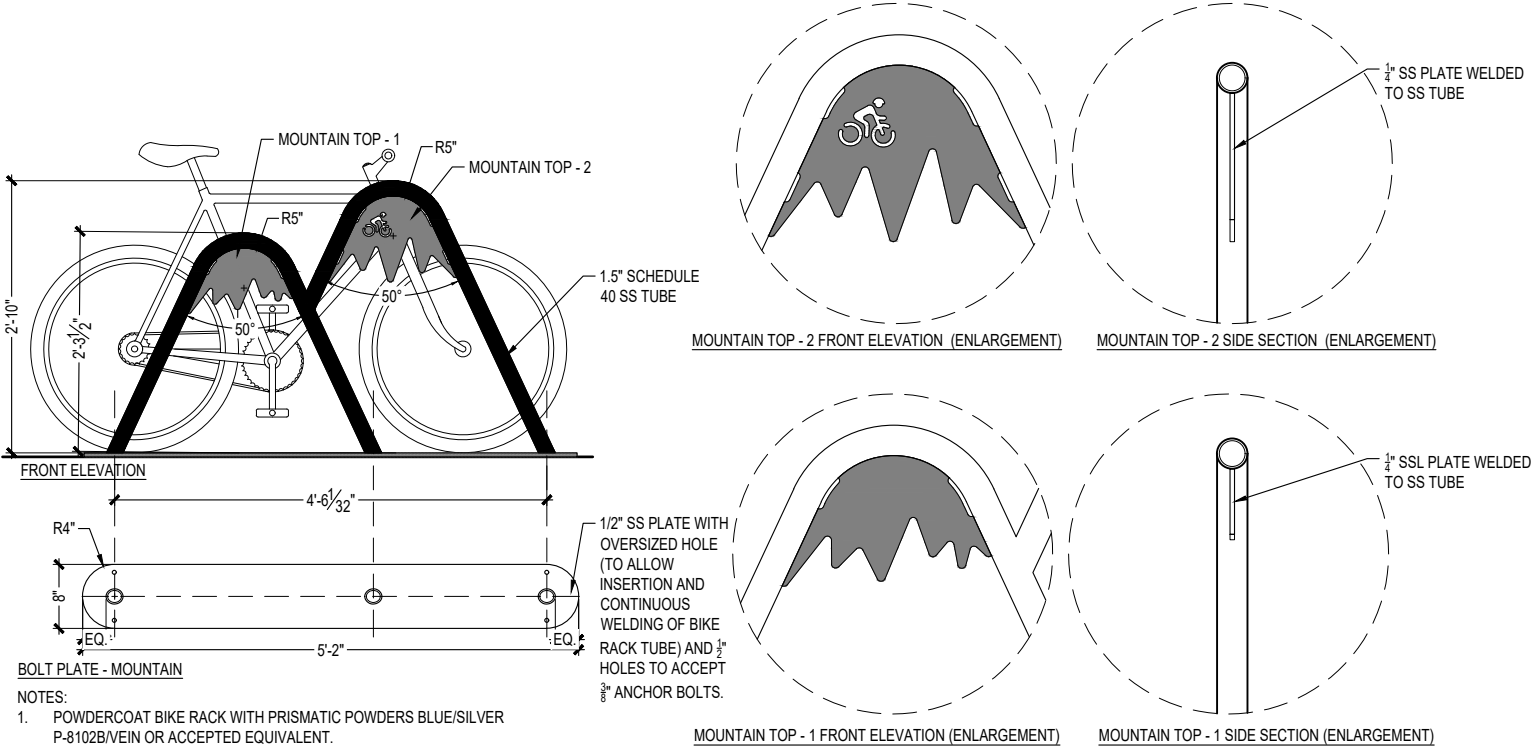
- 2x4 AND 1x4 RAILS FULL LENGTH OF SIDES PARALLEL TO PEDESTRIAN TRAFFIC



RECORD DRAWING		DATA		DRAWN BY		CHECKED BY		<div>2000'0'0'20'40'</div>										<div><div>Corvus Design</div><div>Landscape Architecture</div><div>www.corvus-design.com</div><div>Anchorage • 907 222 2859</div><div>2508-B Fairbanks St. 99503</div></div>		<div><div>MUNICIPALITY OF ANCHORAGE</div></div>		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT									
DATA PROVIDED BY:		BASE		KE		KE																PROJECT NO. 21-22									
TITLE:		TOPOGRAPHY		KE		KE																4TH AVENUE SIGNALS AND LIGHTING UPGRADE – E STREET TO G STREET									
CONTRACTOR:		PROFILE		KE		KE																DETAILS – PLANTING									
DATE:		STORM SEWER		KE		KE																									
THIS SHALL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT S CONSTRUCTED.		WATER/SANITARY SEWER		KE		KE																									
		GAS		KE		KE																									
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		ELECTRIC		KE		KE																									
		DESIGN		KE		KE																									
		QUANTITIES		KE		KE																									
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		MUN. FINAL CHECK		KE		KE																									
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		HOR. N/A																													
		VER. N/A																													
		GRID 1230, 1231																													
		DATE JAN. 2022																													
		STATUS BID SET																													
		SHEET																													
		of																													
		L503																													



NOTE: BIKE RACKS ARE PLACEHOLDERS, BUT WOULD PROVIDE CONTINUITY. NEW DESIGNS CAN BE DEVELOPED.



2  
L504

### BIKE RACK - MOUNTAIN

SCALE: ##### @22x34



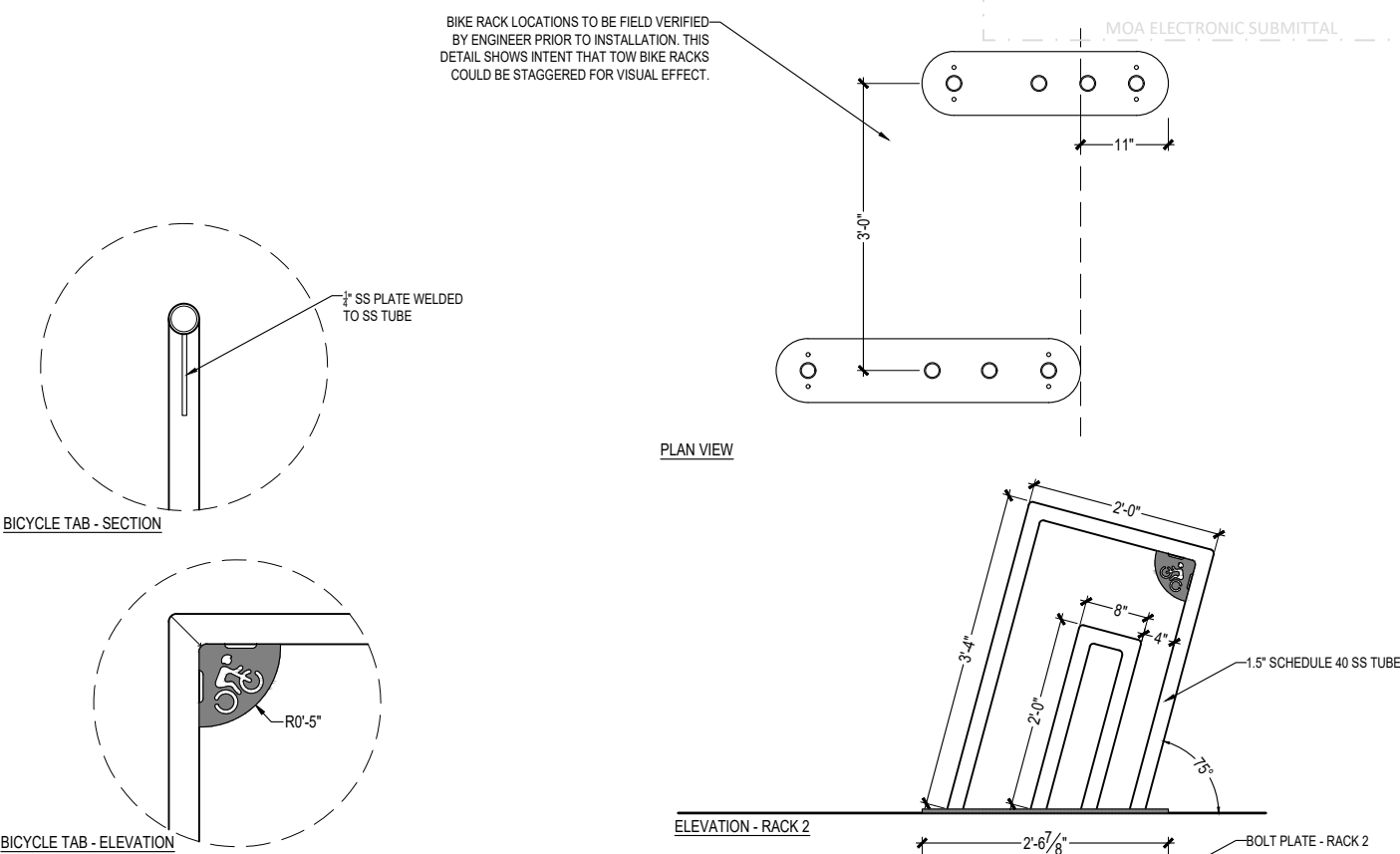
TYPICAL BEAR SAVER LITTER BIN (LITTER BIN - CARTOONS SHOWN ABOVE)

(8) EXISTING TRASH RECEPTACLES TO BE REMOVED AND RELOCATED WITHIN PROJECT AREA. TRASH RECEPTACLES ARE IDENTIFIED AS FOLLOWS: PINK FLOWERS, LANDSCAPE, WELCOME TO ANCHORAGE, WATERCOLOR, AIRPORT HEIGHTS, WILDERNESS, CARTOONS, AND TIE DYE.

3  
L504

### TRASH RECEPTACLE


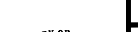
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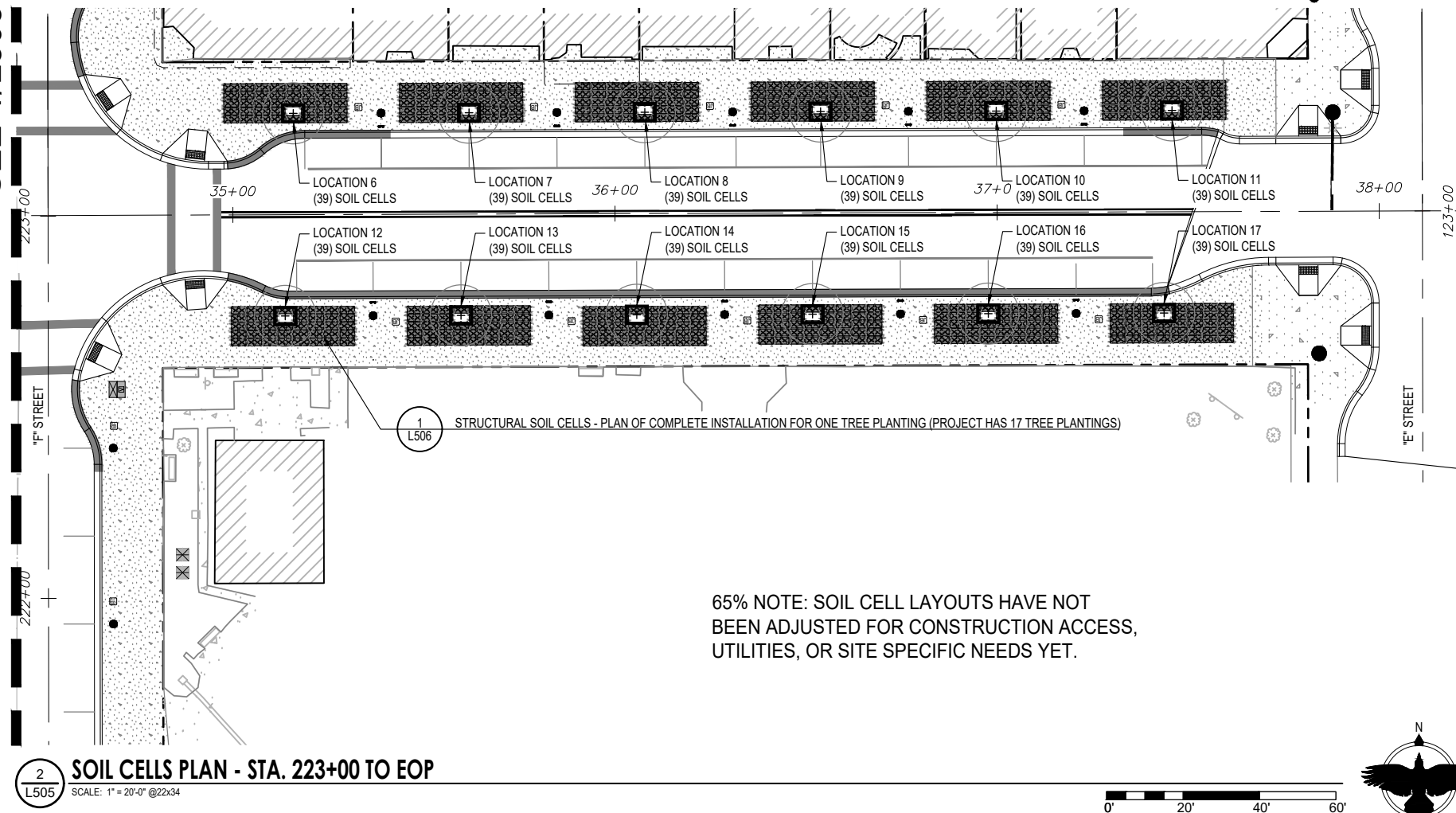
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L504

### BIKE RACK - EARTHQUAKE

SCALE: ##### @22x34

RECORD DRAWING		DATA		DRAWN BY		CHECKED BY		<div>20002040</div>				<div><div>Corvus Design</div><div>Landscape Architecture</div><div>www.corvus-design.com</div><div>Anchorage - 907.222.2859</div><div>2506-B Fairbanks St. 99503</div></div>		<div></div>		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT									
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TITLE:		TOPOGRAPHY		KE		KE								DETAILS - BIKE RACKS											
CONTRACTOR:		PROFILE		KE		KE																			
DATE:		STORM SEWER		KE		KE																			
THIS SHALL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT S CONSTRUCTED.		WATER/SANITARY SEWER		KE		KE																			
		GAS		KE		KE																			
		TELEPHONE/CABLE TV		KE		KE																			
		ELECTRIC		KE		KE																			
		DESIGN		KE		KE																			
		QUANTITIES		KE		KE																			
		PRELIMINARY/FINAL		KE		KE																			
		MUNI. FINAL CHECK		KE		KE																			
		PLAN CHECK						CONSTRUCTION RECORD				VERTICAL DATUM				REVISIONS				CONSULTANT		SEAL			





**LOCATION 15 - SENSOR LAYOUT**



CURBSIDE

The diagram shows a rectangular area representing a sensor layout. At the center is a sensor labeled 'X'. Surrounding 'X' are four sensors labeled 'Y', positioned at the top-left, top-right, bottom-left, and bottom-right corners of the rectangle. The label 'CURBSIDE' is positioned above the rectangle, and a north arrow is located to the right of the rectangle.

3  
L505

**SENSOR LOCATION ENLARGEMENTS**  
SCALE: NTS @22x34

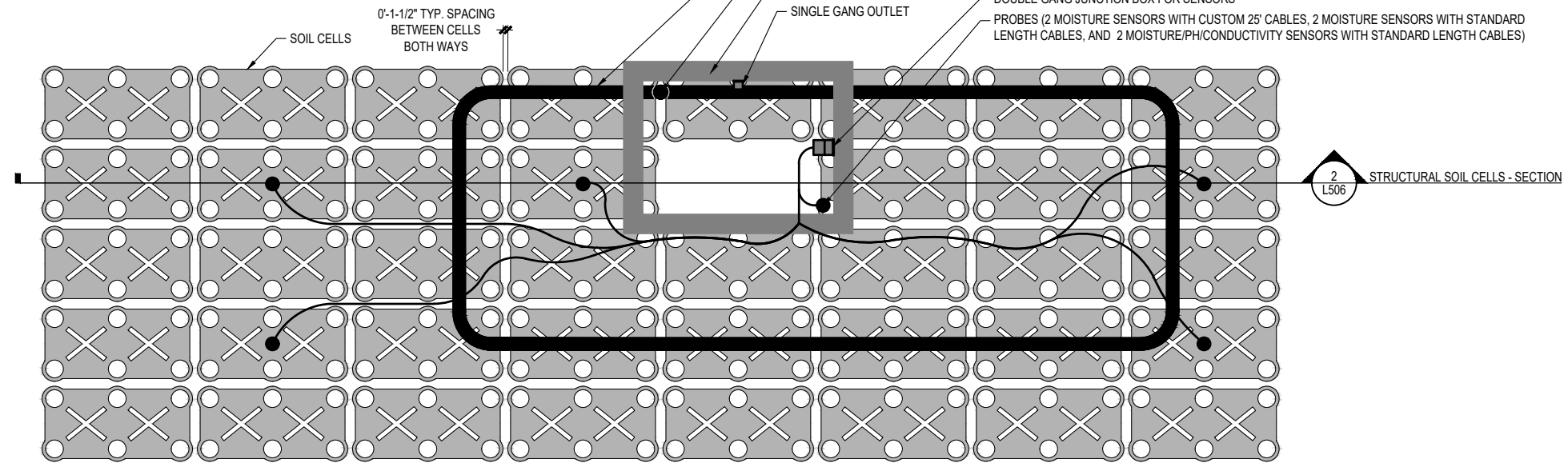
SOIL CELL LOCATIONS				
LOCATIONS	CORNER COORDINATES			
	NW	NE	SW	SE
1				
2				
3				
4				
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				

RECORD DRAWING		DATA		DRAWN BY		CHECKED BY		<div>2000 0 0 20 40</div>						<div><div>Corvus Design</div><div>Landscape Architecture</div><div>www.corvus-design.com</div><div>Anchorage - 907.222.2859</div><div>2500-B Fairbanks St. 99503</div></div>		<div></div>		PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT							
DATA PROVIDED BY:		BASE		KE		KE		PROJECT NO. 21-22																	
TITLE:		TOPOGRAPHY		KE		KE		4TH AVENUE SIGNALS AND LIGHTING UPGRADE – E STREET TO G STREET																	
CONTRACTOR:		PROFILE		KE		KE		DETAILS – SOIL CELL KEY PLAN																	
DATE:		STORM SEWER		KE		KE																			
THIS SHALL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT S CONSTRUCTED.		WATER/SANITARY SEWER		KE		KE																			
		GAS		KE		KE																			
		TELEPHONE/CABLE TV		KE		KE																			
		ELECTRIC		KE		KE																			
		DESIGN		KE		KE																			
		QUANTITIES		KE		KE																			
		PRELIMINARY/FINAL		KE		KE																			
		MUN. FINAL CHECK		KE		KE																			
		PLAN CHECK		CONSTRUCTION RECORD		VERTICAL DATUM		REVISIONS		CONSULTANT		SEAL		SCALE		HOR. N/A VER. N/A		GRID 1230, 1231 STATUS BID SET		DATE JAN. 2022		L505 SHEET		of L507	



AIR+WATER SYSTEM IN SOIL CELLS  
 IN-GRADE UTILITY BOX (ACCESS TO AIR+WATER SYSTEM)  
 PLANTER (ABOVE)  
 SINGLE GANG OUTLET

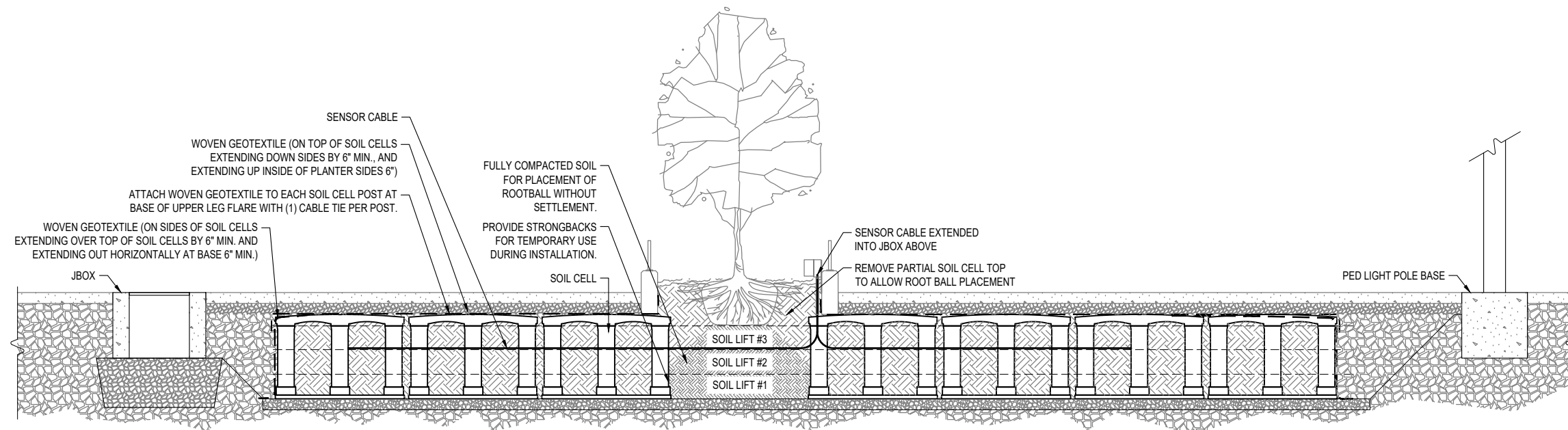
BACK OF CURB  
 SOIL MONITORING SYSTEM TO BE PROVIDED AT FOUR PLANTER LOCATIONS:  
 DOUBLE GANG JUNCTION BOX FOR SENSORS  
 PROBES (2 MOISTURE SENSORS WITH CUSTOM 25' CABLES, 2 MOISTURE SENSORS WITH STANDARD LENGTH CABLES, AND 2 MOISTURE/PH/CONDUCTIVITY SENSORS WITH STANDARD LENGTH CABLES)



1  
L506

**STRUCTURAL SOIL CELLS - PLAN OF COMPLETE INSTALLATION FOR ONE TREE PLANTING (PROJECT HAS 17 TREE PLANTINGS)**

SCALE: ##### @22x34



2  
L506

**STRUCTURAL SOIL CELLS - SECTION**

SCALE: ##### @22x34

THIS SHALL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT S CONSTRUCTED.

DATA	DRAWN BY	CHECKED BY
BASE	KE	KE
TOPOGRAPHY	KE	KE
PROFILE	KE	KE
STORM SEWER	KE	KE
WATER/SANITARY SEWER	KE	KE
GAS	KE	KE
TELEPHONE/CABLE TV	KE	KE
ELECTRIC	KE	KE
DESIGN	KE	KE
QUANTITIES	KE	KE
PRELIMINARY/FINAL	KE	KE
MUNI. FINAL CHECK	KE	KE

[illegible]

01/25/2023



### DETAILS – SOIL CELLS



SCALE	HOR. N/A	GRID 1230, 1231	DATE JAN. 2022	L506
	VER. N/A	STATUS BID SET		SHEET <u>      </u> of <u>      </u> L507

J:\KIN-22-01 4th Ave Phase 3\2 - CAD\Corvus-Sheets - 4th Ave.dwg, 1:2, 1/31/23 at 12:49 by BRADLEY LITTLE





SCALE: 1" = 1'-0" @22x34

RECORD DRAWING	DATA	DRAWN BY	CHECKED BY	<div>20002040</div>							<div><div>Corvus Design</div><div>Landscape Architecture</div><div>www.corvus-design.com</div><div>Anchorage • 907.222.2859</div><div>2506-B Fairbanks St. 99503</div></div>	<div></div>	PROJECT MANAGEMENT AND ENGINEERING DEPARTMENT						
DATE PROVIDED BY:	BASE	KE	KE	PROJECT NO. 21-22															
TITLE:	TOPOGRAPHY	KE	KE	4TH AVENUE SIGNALS AND LIGHTING UPGRADE – E STREET TO G STREET															
CONTRACTOR:	PROFILE	KE	KE	FIELD BOOKS	TBM NO.	LOCATION	ELEV.	REV	DATE	DESCRIPTION			BY	DETAILS – SOIL CELLS					
DATE:	STORM SEWER	KE	KE																
	WATER/SANITARY SEWER	KE	KE																
	GAS	KE	KE																
	TELEPHONE/CABLE TV	KE	KE																
	ELECTRIC	KE	KE																
THIS SHALL SERVE TO CERTIFY THAT THESE RECORD DRAWINGS ARE A TRUE AND ACCURATE REPRESENTATION OF THE PROJECT S CONSTRUCTED.	DESIGN	KE	KE																
	QUANTITIES	KE	KE																
	PRELIMINARY/FINAL	KE	KE																
	MUNI. FINAL CHECK	KE	KE																
	PLAN CHECK			CONSTRUCTION RECORD			VERTICAL DATUM			REVISIONS			CONSULTANT	SEAL	SCALE	HOR. N/A VER. N/A	GRID 1230, 1231 STATUS BID SET	DATE JAN. 2022	L507 SHEET of L507