





# MUNICIPALITY OF ANCHORAGE PARKS AND RECREATION DEPARTMENT

# 2022 URE PARK TRAIL AND BRIDGE IMPROVEMENTS

2108 ROOSEVELT DRIVE ANCHORAGE, AK 99517

# SHEET INDEX:

C1 ..... TITLE SHEET

C2 ..... NOTES, ABBREVIATIONS, & LEGEND

C3 ..... EXISTING CONDITIONS & SURVEY CONTROL

C4 ..... DEMOLITION PLAN

C5 ...... PLAN & PROFILE

C6 ..... PLAN & PROFILE

C7 ...... TYPICAL SECTIONS & DETAILS

S1 ..... BRIDGE GENERAL NOTES & QUALITY ASSURANCE

S2 ..... BRIDGE PLAN & PROFILE

S3 ..... BRIDGE SECTIONS & DETAILS

S4 ..... BRIDGE GUARDRAIL & REINFORCEMENT DETAILS

APPROVED BY:

JOSHUA DURAND

DIRECTOR PARKS AND RECREATION

# **CONSTRUCTION NOTES**

- CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS, STREETS-DRAINAGE-UTILITIES-PARKS, DATED MARCH 1, 2015 HEREAFTER REFERRED TO AS MASS, AS CURRENTLY AMENDED BY THE SPECIAL PROVISIONS AND THESE CONSTRUCTION DRAWINGS.
- SCOPE OF PROJECT INCLUDES THE CONSTRUCTION OF URE PARK TRAIL FROM FISH CREEK TRAIL TO ROOSEVELT DRIVE WITH BRIDGE OVER FISH CREEK AS SHOWN HERFIN.
- DRAWING SCALES ON SHEETS WITHIN THESE PLANS MAY VARY AND SHOULD BE NOTED PRIOR TO USE. THESE PLANS WERE CREATED FOR 22X34 PLAN SET AND AT A SPECIFIC DRAWING SCALE. ANY REPRODUCTION OR PUBLISHING OF THESE PLANS MAY RESULT IN DISTORTION OF SCALE AND SHALL BE VERIFIED PRIOR TO USE.
- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS PRIOR TO BEGINNING CONSTRUCTION. THE PERMITS SHALL BE MAINTAINED AT THE JOB
- CONTRACTOR SHALL MAINTAIN "REDLINE" RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS IN ACCORDANCE WITH MASS DIVISION 65.00 CONSTRUCTION SPECIFICATIONS FOR CONSTRUCTION SURVEY. THE "REDLINES" SHALL BE KEPT CURRENT ON A DAILY BASIS AND SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOBSITE.
- CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH AS-BUILT PLANS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD. CONTRACTOR SHALL RECORD ALL DEVIATIONS FROM THE DRAWINGS.
- THESE NOTES CONTAIN INFORMATION NECESSARY FOR THE PROPER EXECUTION OF THE WORK CONTAINED ON THESE IMPROVEMENT PLANS. THESE NOTES APPLY TO ALL PLAN SHEETS. ADDITIONAL CONSTRUCTION NOTES MAY ALSO BE SHOWN ON INDIVIDUAL PLAN SHEETS. THE CONTRACTOR IS RESPONSIBLE TO READ AND COMPLY WITH ALL NOTES SHOWN ON THIS SET OF PLANS. THE TERM "CONTRACTOR", AS USED IN THESE NOTES AND ELSEWHERE IN THIS PLAN SET, MEANS THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS AND INDIVIDUALS AUTHORIZED TO PERFORM WORK SHOWN ON THESE IMPROVEMENT PLANS. THE CONTRACTOR IS RESPONSIBLE TO COMPLY WITH ALL NOTES APPLICABLE TO HIS/HER WORK ALL CONTRACTORS ARE DIRECTED TO CONTACT THIS ENGINEER FOR ANY QUESTIONS REGARDING THE STATED OR IMPLIED MEANING OF ANY NOTE OR OTHER INFORMATION CONTAINED ON THESE IMPROVEMENT PLANS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT HIS/HER CONTRACT FOR SERVICES INCLUDES THE RESPONSIBILITIES DEFINED BY THE APPLICABLE NOTES.
- 8. EXISTING SIGNAGE ALONG TRAILS MAY REQUIRE REMOVAL AND REINSTALLATION AS A RESULT OF WORK TO BE PERFORMED. REINSTALLATION OF SIGNAGE SHALL BE PER MASS, ALL ASSOCIATED WORK SHALL BE INCIDENTAL TO THE CONTRACT, AND NO SEPARATE PAYMENT SHALL BE MADE UNLESS OTHERWISE SPECIFIED IN THESE DRAWINGS.
- 9. ALL HAUL ROUTES AND CONSTRUCTION TRAFFIC DESIGNATIONS SHOWN HEREIN ARE BY RECOMMENDATION OF THE ENGINEER AND AS SUCH, ARE RECOMMENDATIONS ONLY. TRAFFIC CONTROL PLAN (TCP) TO BE COMPLETED BY CONTRACTOR PER MASS, COORDINATED WITH AND APPROVED BY THE MOA TRAFFIC ENGINEER, AS WELL AS ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES. SEASONAL WEIGHT RESTRICTIONS MAY EXIST DURING PROPOSED CONSTRUCTION SCHEDULE. SUCH RESTRICTIONS MUST BE ADHERED TO BY CONTRACTOR, AND INCLUDED IN TCP.
- 10. ALL QUANTITIES SHOWN HEREIN ARE APPROXIMATE. CONTRACTOR SHALL VERIFY ALL QUANTITIES.
- 11. EXACT LOCATION OF EXCAVATION AND BACKFILL SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- 12. 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.
- 13. DEWATERING IS NOT ANTICIPATED FOR THIS PROJECT. IF DEWATERING IS REQUIRED, IT SHALL BE CONSIDERED INCIDENTAL TO THIS CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE
- 14. GRADE AND COMPACT NATIVE SOILS TO 95% M.D.D. PRIOR TO FILL PLACEMENT AS DIRECTED BY THE ENGINEER
- 15. CLASSIFIED FILL SHALL BE PLACED IN LIFTS NOT TO EXCEED 12-INCHES IN DEPTH AND SHALL BE COMPACTED TO 95% M.D.D.
- 16. FINISH GRADE (FG) REPRESENTS THE ELEVATION OF THE FINISHED SURFACE. THIS INCLUDES LANDSCAPE AREAS, PAVED OR CONCRETE SURFACES, ROCK RIP-RAP SURFACE AND ELEVATION AT EXTERIOR OF STRUCTURE FOUNDATION, UNLESS OTHERWISE DENOTED ON DETAIL OR SPECIAL LABEL. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST SUBGRADE OR TOPSOIL TO ALLOW FOR FINISHED SURFACE MATERIAL DIMENSIONS. IF DETAIL IS PROVIDED FOR SPECIAL AREA, DETAIL SHALL DENOTE FINISH GRADES.
- 17. CUT AND FILL SLOPES SHALL NOT EXCEED 2 HORIZONTAL UNITS TO 1 VERTICAL UNIT (2:1) UNLESS AUTHORIZED BY THE ENGINEER.
- 18. THE CONTRACTOR SHALL WORK, COOPERATE, AND COORDINATE WITH THE ENGINEER TO MODIFY THE PEDESTRIAN TRAFFIC CONTROL PLAN AND ADJUST DETOUR ROUTES TO FACILITATE THE OWNER'S REQUESTS TO MAINTAIN THE PUBLIC'S SAFETY.
- 19. CLEARING AND GRUBBING LIMITS SHALL EXTEND 2 FEET BEYOND THE CATCH LIMITS.
- 20. DEWATERING IS INCIDENTAL FOR ALL WORK NECESSARY TO PROVIDE A DRY AND STABLE CONSTRUCTION ENVIRONMENT THROUGHOUT THE PROJECT.

## **CLEANUP AND TOPSOIL:**

- 21. WORK AND MATERIALS REQUIRED FOR REMOVING LITTER OR DEBRIS THAT EXISTS WITHIN THE PROJECT LIMITS SHALL BE CONSIDERED INCIDENTAL TO THE BID ITEM "DEMOLITION" (OR INCIDENTAL TO THE PROJECT) AND NO SEPARATE PAYMENT SHALL BE MADE.
- CONTRACTOR SHALL RESTORE DISTURBED PROPERTY TO PRE-CONSTRUCTION CONDITION(S), UNLESS OTHERWISE DIRECTED BY THE ENGINEER. PAYMENT FOR RESTORING DISTURBED PROPERTY SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND AND NO SEPARATE PAYMENT SHALL BE MADE, UNLESS BID ITEMS ARE PROVIDED. AN INSPECTION OF THE SURROUNDING AREAS AND PROPERTIES TO BE UTILIZED SHALL BE CONDUCTED BY THE ENGINEER AND CONTRACTOR PRIOR TO CONSTRUCTION ACTIVITIES. RECORD ALL PREEXISTING CONDITIONS.

## **RECLAMATION AND REPLACEMENT:**

- 23. THE CONTRACTOR SHALL DELINEATE WETLAND AREAS AS IDENTIFIED ON THE DRAWINGS WITH PERIMETER BMPs. NO WORK, EQUIPMENT, OR EXTRANEOUS MATERIALS SHALL BE ALLOWED IN THE WETLANDS UNLESS IDENTIFIED ON THE DRAWINGS OR DIRECTED BY THE ENGINEER.
- 24. NO SOILS REPORT OR INVESTIGATION HAS BEEN CONDUCTED FOR THIS PROJECT.

# **EXISTING UTILITIES**

- 1. LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM AS-BUILT DRAWINGS AND SOME FROM UTILITY COMPANY LOCATES, AND THEREFORE MAY NOT BE VISIBLE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND DOCUMENT ANY UTILITY (ACTIVE OR ABANDONED) UPON ENCOUNTERING ANY UTILITY NOT SHOWN ON THE DRAWINGS OR PLANS
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND VERIFYING ALL UTILITIES AND PERFORMING ANY NECESSARY VERIFICATION PRIOR TO CONSTRUCTION.
- 3. UNDERGROUND AND OVERHEAD ELECTRICAL, TELECOMMUNICATION LINES, FIBER-OPTIC CABLE, AND UTILITY POLES OCCUR WITHIN THE PROJECT AREA: CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING OVERHEAD AND/OR UNDERGROUND LINES, AND POLES SHALL COMPLY WITH APPLICABLE FEDERAL, STATE, AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY.
- 4. HAND DIGGING IS REQUIRED WITHIN THREE FEET OF BURIED ELECTRICAL CABLE AND FIBER-OPTIC CABLE.
- 5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WITHIN THE LIMITS OF CONSTRUCTION, WHETHER OR NOT SAID UTILITIES ARE SHOWN ON THE PLANS. THIS RESPONSIBILITY INCLUDES CONTACTING UTILITY COMPANIES FOR LOCATIONS OR POTHOLING PRIOR TO CONSTRUCTION. ANY DAMAGE TO UTILITIES DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE

EXISTING TRAIL LIGHT

EXISTING GUY WIRE

EXISTING SIGN

· · · · · · · · · · · TOPO FILL LIMITS

---- TOPO CUT LIMITS

- - - -70- - - EXISTING CONTOUR MAJOR

- - - -71- - - EXISTING CONTOUR MINOR

EXISTING OVERHEAD UTILITY POLE

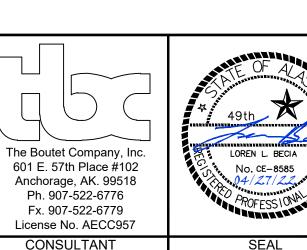
— OHE — OHE — EXISTING OVERHEAD UTILITY

6. ACCESS TO MANHOLES MUST BE MAINTAINED AT ALL TIMES.

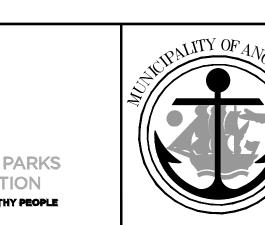


Know what's **below.** 

FIELD BOOKS LOCATION REV DATE BY REV BM NO. ELEV. DATA DATA DESCRIPTION DESIGN: TELEPHONE TBC TOPOGRAPHY **ELECTRIC** TBC STAKING: PROFILE CABLE TV TBC SANITARY SEWER TRAFFIC SIGNAL ASBUILT STORM SEWER DESIGN CONTRACTOR: QUANTITIES TBC BASIS OF DATUM WATER INSPECTOR: MUN FINAL CHECK CONSTRUCTION RECORD VERTICAL DATUM REVISIONS PLAN CHECK







# PARKS AND RECREATION DEPARTMENT

URE PARK TRAIL AND BRIDGE

NOTES, ABBREVIATIONS, & LEGEND

_	HOR. PER SHEET	DATE: APRIL 22, 2022	GRID: SW1728	SHEET	C2
	VER. PER SHEET	STATUS: FINAL REVIEW		SHEET	

ABBREVIATIONS:

ASPHALTIC CONCRETE BEGINNING OF PROJECT

BEGINNING OF CURVE

BOTTOM OF FOOTING

BEGIN VERTICAL CURVE

CURB AND GUTTER

DUCTILE IRON PIPE

EDGE OF PAVEMENT

END OF VERTICAL CURVE

FINISH FLOOR ELEVATION

HIGH DENSITY POLYETHYLENE PIPE

MUN. OF ANCHORAGE STANDARD SPECIFICATIONS

FURNISH AND INSTALL

END OF PROJECT

BEST MANAGEMENT PRACTICE

BACK OF WALK ELEVATION

BENCH MARK

CENTERLINE

CLEANOUT

CURB CUT

CONSTRUCT

DETAIL

CURB RETURN

DROP INLET

**ELECTRICAL** 

ELEVATION

ESTIMATED

**EXISTING** 

EASEMENT LINE

END OF CURVE

FINISHED GRADE

FIRE HYDRANT

GRADE BREAK

GATE VALVE

HORIZONTAL HIGH POINT

INTERSECTION

LIP OF CURB

LINEAR FEET

LOCATION

MAXIMUM

MANHOLE

MONUMENT

MINIMUM

MATCH EXISTING

MEAN SEA LEVEL

ORDINARY HIGH WATER

POINT OF CURVATURE

POINT OF INTERSECTION

POINT OF REVERSE CURVE

PUBLIC UTILITY EASEMENT

POINT OF TANGENT

POINT OF VERTICAL CURVE

POINT OF VERTICAL TANGENT

RECYCLED ASPHALT PAVEMENT

REINFORCED CONCRETE BOX

REINFORCED CONCRETE PIPE

REMOVE AND REPLACE

RIGHT-OF-WAY

RADIUS POINT

REFERENCE

**SUBGRADE** 

SANITARY SEWER

RETURN SLOPE

STATION

**STANDARD** 

**SIDEWALK** STREET

**TANGENT** 

TYPICAL

WATER

VALVE BOX

**TELEPHONE** TOP OF CURB

STORM DRAIN

THRUST BLOCK

TOP OF WALL

TOE OF SLOPE

TOP OF SLOPE

VERTICAL CURVE

CURVE DELTA

TEMPORARY BENCH MARK

SHEET

POINT OF VERTICAL INTERSECTION

OIL/GREASE SEPARATOR

POINT OF COMPOUND CURVE

NOT TO SCALE

PAD ELEVATION

PEDESTRIAN

PUSH ON

RADIUS

RIGHT

PROPERTY LINE

LEFT

LOW POINT

LENGTH

INVERT ELEVATION

IN ACCORDANCE WITH

FLOW LINE

FLANGE GAS

ADOT

AC

BOP

BC

ВМ

BMP

BVC

BW

 $\mathsf{CL}$ CO

CC

CR

DI DIP

DET

EOP

EST

ΕX

EVC

FI

FG

FΗ

FLG

GB

GV

IAW

LOC

MASS

MAX

MIN

MON

MSL

NTS

OHW

OGS

PAD

PCC

PUE

PVC

PVI

PVT

RAP

RCB

RCP

ROW

REF

RET

SG

SS

STA

STD

SHT

TAN

TEL

TBM

TOW

TOE

TOP

TYP

VΒ

VC

TB

SD

SW

RR

RP

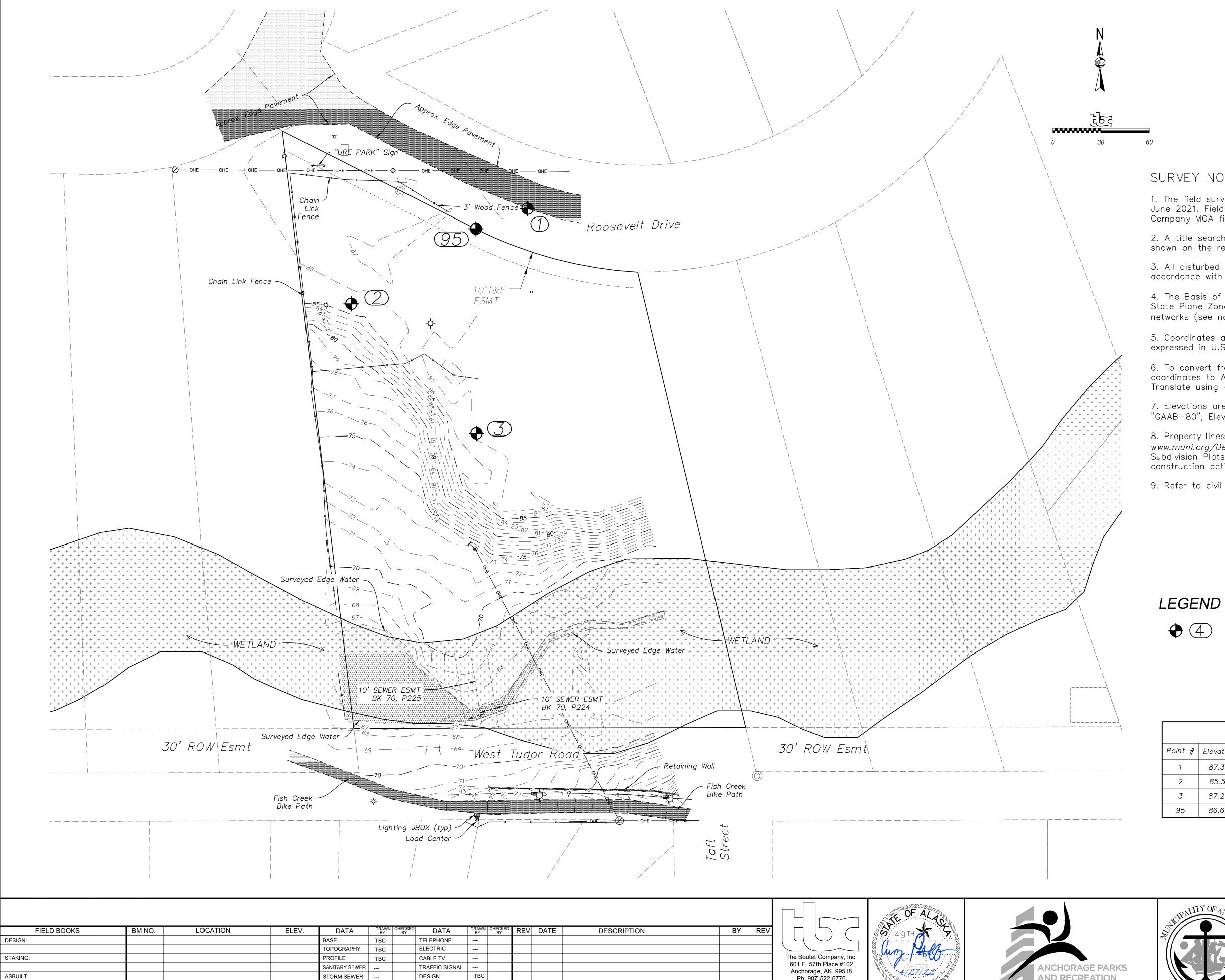
HORZ

CONST

C&G

AMERICAN WITH DISABILITIES ACT OF 1990

STATE OF ALASKA DEPARTMENT OF TRANSPORTATION



# SURVEY NOTES:

- 1. The field survey was performed by The Boutet Company, in January, 2020 & June 2021. Field survey information for this project is located in the Boutet Company MOA field book 3693, page 50.
- 2. A title search was not performed. Easements of record other than those shown on the recorded plats are not shown hereon.
- 3. All disturbed property corners shall be replaced by the contractor in accordance with Special Provision 65.02, Article 2.1 Project Control.
- 4. The Basis of Bearings and coordinates is NAD83(2011) (EPOCH 2010) Alaska State Plane Zone 4 grid from GPS observations from operating real time control networks (see note 7).
- 5. Coordinates are NAD83(2011) (EPOCH 2010) Alaska State Plane Zone 4, expressed in U.S. Survey Feet.
- 6. To convert from NAD83(2011) (EPOCH 2010) Alaska State Plane Zone 4 coordinates to Anchorage Bowl 2000 coordinates: Scale using 1.0001089927 and Translate using -2,296,868.6878 N, -1,312,517.4904 E.
- 7. Elevations are expressed in GAAB Datum. Basis of Elevation is Benchmark "GAAB-80", Elev= 91.56.
- 8. Property lines, imagery and other information are per MOA GIS data; www.muni.org/Departments/OCPD/GIS2/Pages/MOAGISData.aspx.
  Subdivision Plats and other recorded data should be referred to before construction activities begin.
- 9. Refer to civil plans for alignment data.

+ 4

SET CONTROL AS NOTED

		Point Ta	ıble	
Point #	Elevation	Northing	Easting	Description
1	87.36	2623875.57	1654519.47	CP1-PK
2	85.51	2623816.24	1654409.95	CP2-SPIKE
3	87.27	2623735.72	1654487.84	CP3-SPIKE
95	86.64	2623863.06	1654487.57	ALCAP

FIELD BOOKS	BM NO. LOCATION	ELEV. DATA DE	RAWN CHECKED DATA	DRAWN CHEC	CKED REV DATE	DESCRIPTION	BY REV		OF AZ	
DESIGN:			BC TELEPHONE						4911	
		TOPOGRAPHY TE	BC ELECTRIC						18 lun Holland	
STAKING:		PROFILE TE	BC CABLE TV					The Boutet Company, Inc.	The state of the s	
		SANITARY SEWER	TRAFFIC SIGNAL	_				601 E. 57th Place #102 Anchorage, AK. 99518	LS-9020 3°	ANCHORAGE PARKS
ASBUILT:		STORM SEWER	DESIGN	TBC				Ph. 907-522-6776		AND RECREATION
CONTRACTOR:	BASIS OF DATUM:	WATER	QUANTITIES	TBC				Fx. 907-522-6779	Ofessional Common Manager	HEALTHY PARKS, HEALTHY PEOPLE
INSPECTOR:		GAS	MUN. FINAL CHECK					License No. AECC957	-4000	

PLAN CHECK

CONSTRUCTION RECORD

VERTICAL DATUM



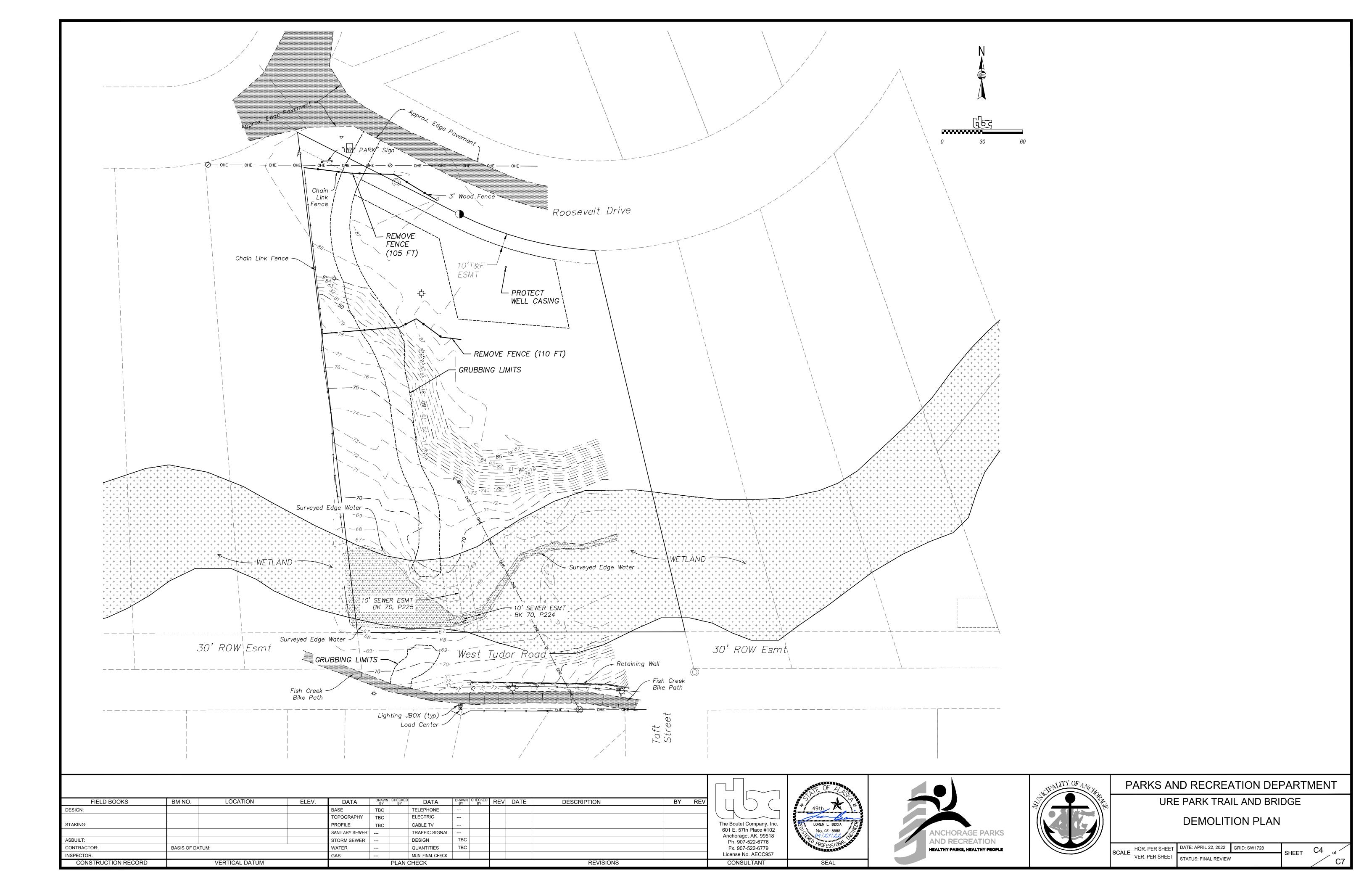


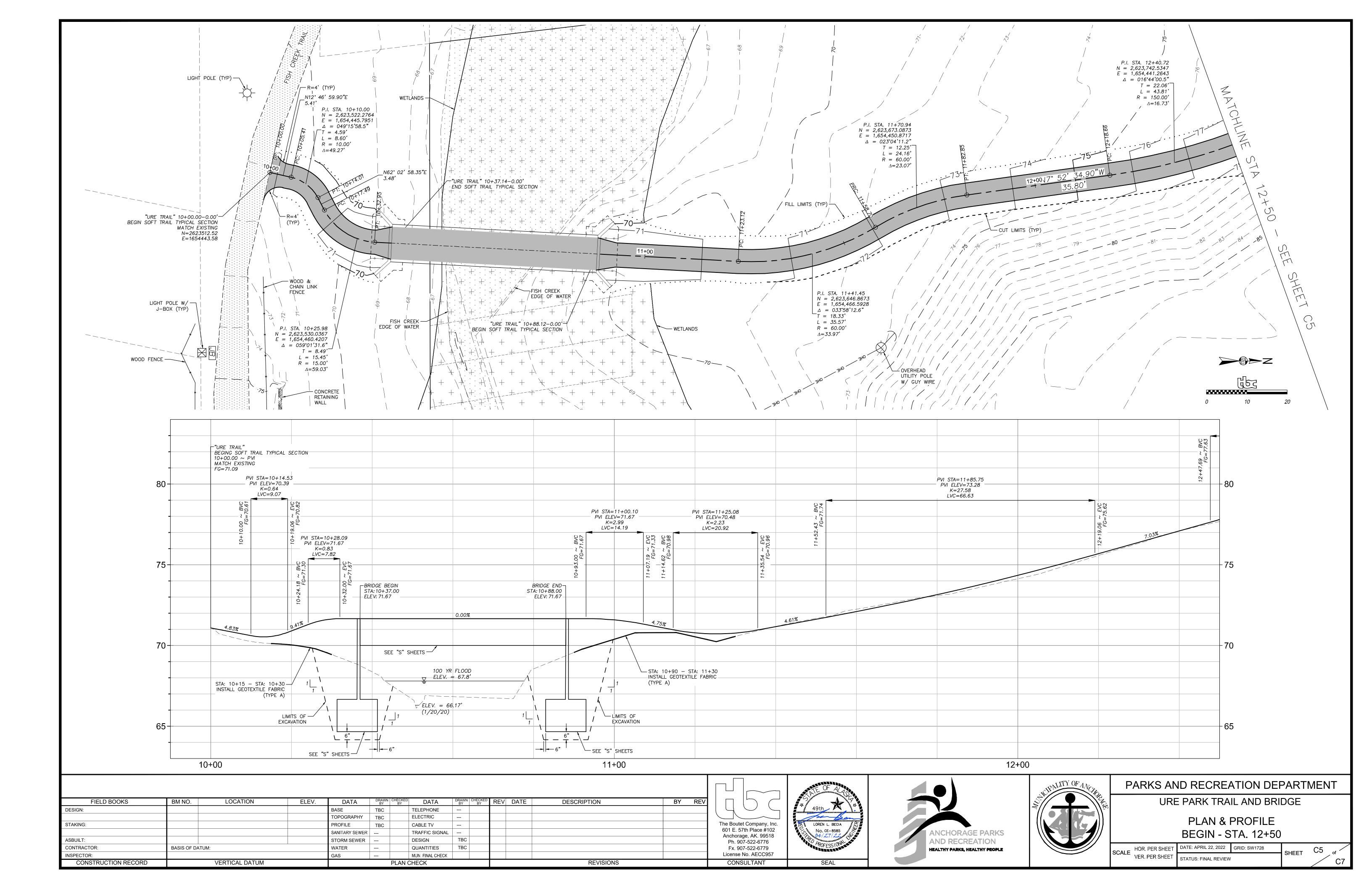
PARKS AND RECREATION DEPARTMENT	Τ
URE PARK TRAIL AND BRIDGE	

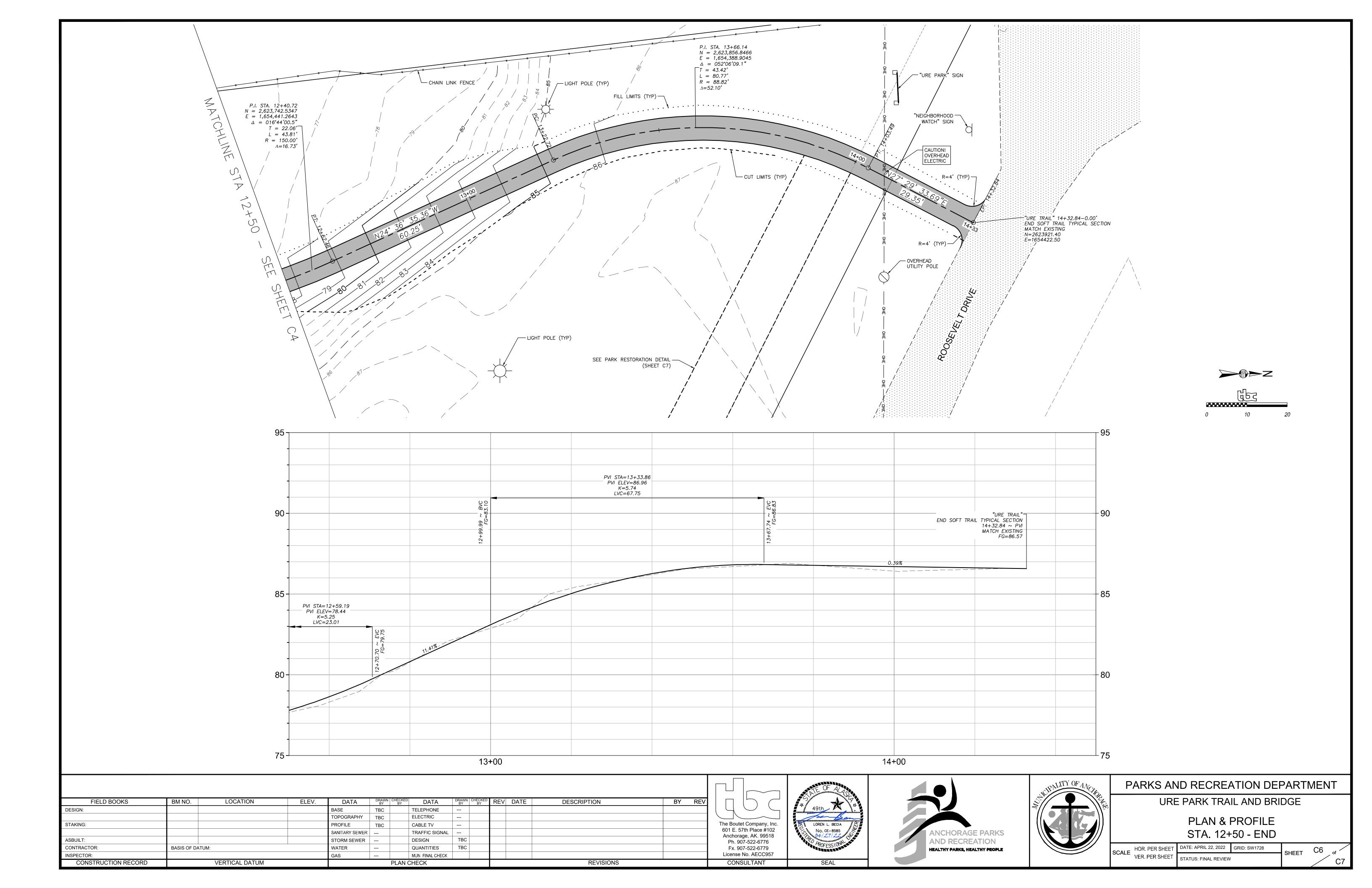
**EXISTING CONDITIONS & SURVEY CONTROL** 

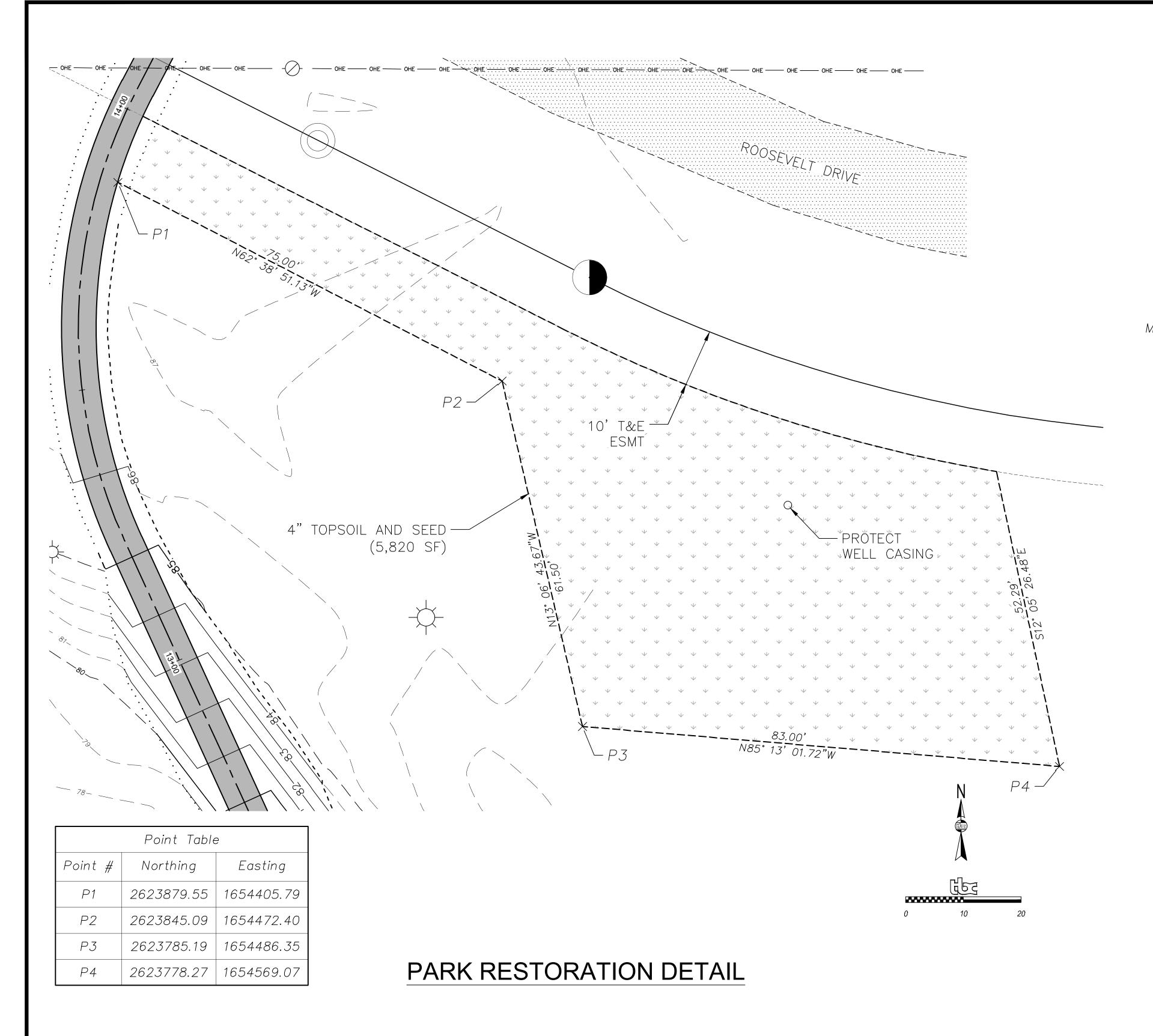
, , –	00110110110	~ OO! (V = !	00111110

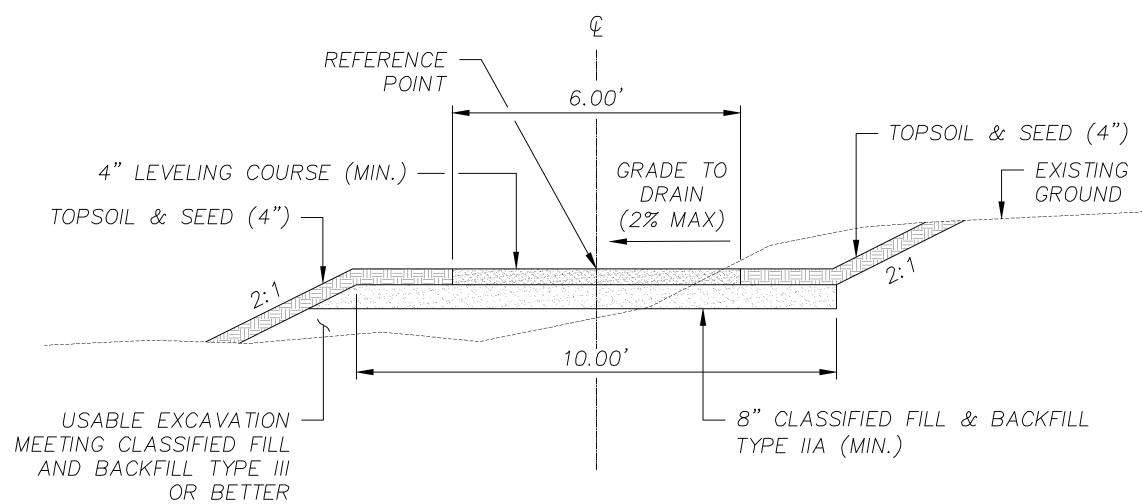
HOR. PER SHEET	DATE: APRIL 22, 2022	GRID: SW1728	SHEET	C3	of
VER. PER SHEET	STATUS: FINAL REVIEW		SHEET		C7





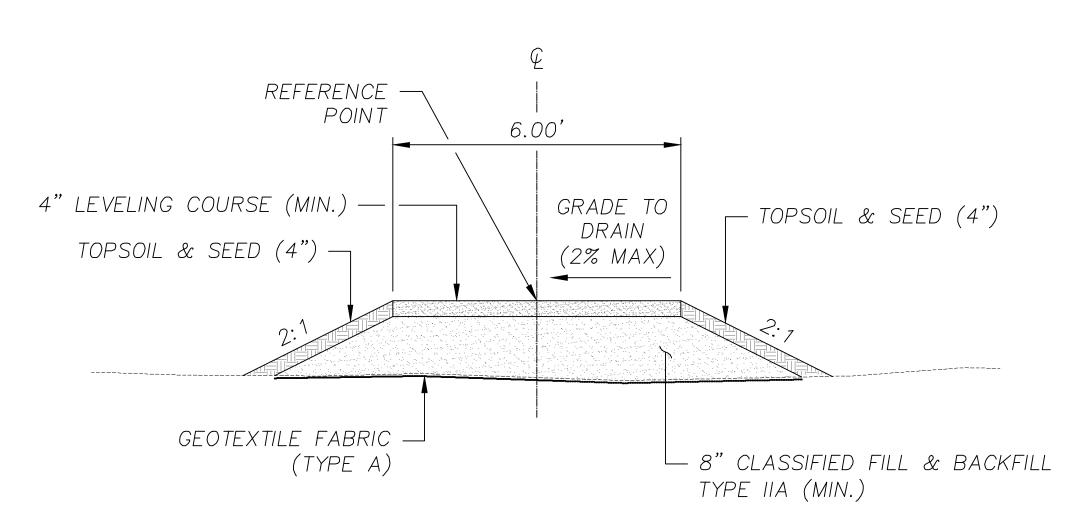






# TYPICAL SOFT TRAIL SECTION

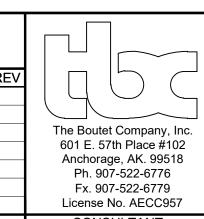
URE PARK TRAIL BOP TO STA 10+15 STA 11+30 TO EOP

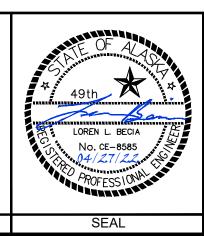


# TYPICAL SOFT TRAIL SECTION

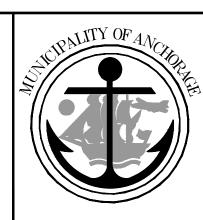
URE PARK TRAIL
STA 10+15 TO STA 10+37
STA 10+88 TO STA 11+30

FIFL D DOOKS	DMNO	LOCATION	FLEV/	I DATA	DRAWN	CHECKED   DATA	DRAWN	CHECKED	DEV	DATE	DECODIDATION	DV	DEV
FIELD BOOKS	BM NO.	LOCATION	ELEV.	DATA	BY	CHECKED DATA	BY	CHECKED BY	REV	DATE	DESCRIPTION	BY	REV
DESIGN:				BASE	TBC	TELEPHONE							
				TOPOGRAPHY	TBC	ELECTRIC							
STAKING:				PROFILE	TBC	CABLE TV							
				SANITARY SEWER		TRAFFIC SIGNAL							
ASBUILT:				STORM SEWER		DESIGN	TBC						
CONTRACTOR:	BASIS OF DA	ATUM:		WATER		QUANTITIES	TBC						
INSPECTOR:				GAS		MUN. FINAL CHECK							
CONSTRUCTION RECORD VERTICAL DATUM				PLAN CHECK					REVISIONS				









# PARKS AND RECREATION DEPARTMENT

URE PARK TRAIL AND BRIDGE

TYPICAL SECTIONS & DETAILS

SCALE	HOR. PER SHEET	DATE: APRIL 22, 2022	GRID: SW1728	SHEET	C7	of /
	VER. PER SHEET	STATUS: FINAL REVIEW		SHEET		C7

### **GENERAL STRUCTURAL NOTES**

THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS AMONG THE DRAWINGS BEFORE STARTING ANY WORK OR FABRICATION. IN CASE OF DISCREPANCIES BETWEEN DRAWINGS, SPECIFICATIONS, REFERENCE STANDARDS, SITE CONDITIONS OR GOVERNING CODE, THE MORE STRINGENT REQUIREMENTS SHALL GOVERN. CONTRACTOR SHALL NOTIFY THE ENGINEER OF DISCREPANCIES AND OBTAIN DIRECTION PRIOR TO PROCEEDING. NOTES ON INDIVIDUAL STRUCTURAL DRAWINGS SHALL TAKE PRIORITY OVER GENERAL STRUCTURAL NOTES. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALED DIMENSIONS. DO NOT SCALE DRAWINGS. TYPICAL DETAILS MAY NOT NECESSARILY BE INDICATED ON THE PLANS, BUT SHALL APPLY AS SHOWN OR DESCRIBED IN THE DETAILS.

ALL CONSTRUCTION SHALL COMPLY WITH AASHTO LRFD GUIDE SPECIFICATIONS FOR THE DESIGN OF PEDESTRIAN BRIDGES (LGSDPB). AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS (AASHTO), AND THE 2018 INTERNATIONAL BUILDING CODE (IBC) AS AMENDED AND ADOPTED BY THE MUNICIPALITY OF ANCHORAGE (MOA).

SAFETY - THE CONTRACTOR IS RESPONSIBLE FOR MEETING ALL FEDERAL, STATE AND LOCAL SAFETY STANDARDS. THE CONTRACTOR IS IN CHARGE OF ALL SAFETY MATTERS ON AND AROUND THE JOB SITE.

STRUCTURAL DESIGN DATA STRUCTURAL DESIGN IS IN ACCORDANCE WITH LGSDPB, AASHTO, AND

THE 2018 IBC AS AMENDED AND ADOPTED BY THE MOA.

REFER TO CIVIL DRAWINGS FOR ELEVATIONS, SLOPES, DEPRESSIONS,

THE STRUCTURE HAS BEEN DESIGNED FOR THE FOLLOWING OPERATIONAL LOADS ON THE COMPLETED STRUCTURES. CONTRACTOR IS RESPONSIBLE FOR TEMPORARY SHORING AND BRACING DURING CONSTRUCTION.

GRATING DEAD LOAD:

2.5 IN PULTRUDED GRATING = 11 PSF

LIVE LOADS: 90 PSF PEDESTRIAN LOAD

VEHICLE AXLE LOADS (FRONT / REAR, STYLE) 10,000 LB H5 VEHICLE (2 KIPS / 8 KIPS SINGLE)

SNOW: 50 PSF

BASIC WIND SPEED (AASHTO)=132 MPH, WIND LOADS:

Kz=0.84, Ir = 1.15, Cd=1.30, UTILIZING FULL BRIDGE PROFILE AREA

SEISMIC LOADS: (AASHTO) PGA=0.541

FOUNDATIONS ARE DESIGNED FOR A MAXIMUM SOIL BEARING PRESSURE OF 2000 PSF UNDER SUSTAINED LOADING.

ALL ORGANIC, FROZEN, OR OTHER UNSUITABLE MATERIALS SHALL BE REMOVED FROM SUB-GRADE AND REPLACED WITH COMPACTED GRANULAR NON-FROST SUSCEPTIBLE (NFS) FILL. ALL FOOTINGS SHALL BE FOUNDED UPON UNDISTURBED, NATURAL SUB-GRADE OR COMPACTED NFS FILL

SUB-GRADES BENEATH ABUTMENT SHALL BE COMPACTED TO A MINIMUM OF 95 PERCENT OF THE MAXIMUM DRY DENSITY AS MEASURED BY ASTM D1557. BACKFILL AROUND AND ABOVE ABUTMENT SHALL BE COMPACTED TO A MINIMUM OF 90 PERCENT OF MAXIMUM DRY DENSITY.

## DEFERRED SUBMITTALS

THE FOLLOWING ITEM IS NOT INCLUDED IN THESE DRAWINGS AND REQUIRES STRUCTURAL DESIGN TO BE FURNISHED BY THE CONTRACTOR:

PREFABRICATED BRIDGE.

DRAWINGS AND CALCULATIONS FOR BUILDER-DESIGNED COMPONENTS SEALED BY THE ALASKA STATE REGISTERED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN, SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW FOR GENERAL CONFORMANCE TO THE CONTRACT DOCUMENTS. SUBMITTALS OF BUILDER-DESIGNED ITEMS SHALL INCLUDE LOCATIONS, MAGNITUDES, AND DIRECTIONS OF ALL FORCES TRANSFERRED TO THE STRUCTURE.

THE CONTRACTOR SHALL REVIEW, STAMP WITH HIS APPROVAL, DATE AND SIGN ALL SHOP DRAWINGS AND SUBMITTALS REQUIRED BY THE CONTRACT DRAWINGS PRIOR TO SUBMITTAL TO THE ENGINEER. AT THE TIME OF SUBMISSION, THE CONTRACTOR SHALL INFORM THE ENGINEER IN WRITING OF ANY DEVIATION IN THE SHOP DRAWINGS FROM THE REQUIREMENTS OF THE CONTRACT DRAWINGS. DIMENSIONS AND QUANTITIES ARE CONTRACTOR'S RESPONSIBILITY AND WILL NOT BE REVIEWED.

## STRUCTURAL CONCRETE

CAST-IN-PLACE CONCRETE SHALL BE ALASKA DEPARTMENT OF TRANSPORTATION AND PUBLIC FACILITIES STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION (AKDOT-PF SSHC 2020):

ABUTMENTS: CLASS A (MIN 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI)

PORTLAND CEMENT SHALL CONFORM TO ASTM C150. MAXIMUM AGGREGATE SIZE SHALL BE 3/4 INCH. ALL AGGREGATE SHALL BE NORMAL WEIGHT MATERIAL CONFORMING TO ASTM C33. WATER SHALL MEET ASTM C94, SECTION 4.1.3.

CONCRETE SHALL BE PROPORTIONED TO ACHIEVE A WORKABLE MIX THAT CAN BE PLACED WITHOUT SEGREGATION OR EXCESS FREE SURFACE WATER. COMPLY WITH IBC SECTION 1905. ALL CONCRETE MAY CONTAIN A WATER REDUCING ADMIXTURE MEETING ASTM C494, TYPE A. MAXIMUM SLUMP SHALL BE 4-INCHES FOR CLASS A AND 3-INCHES FOR CLASS A-A. MAXIMUM WATER CEMENT RATIO SHALL BE 0.45 FOR CLASS A AND 0.44 FOR CLASS A-A.

NON-SHRINK GROUT SHALL BE METALLIC, CONFORMING TO ASTM C1107.

ALL CONCRETE CONSTRUCTION SHALL CONFORM TO AASHTO LRFD BRIDGE DESIGN SPECIFICATION AND ACI 301, STANDARD SPECIFICATION FOR STRUCTURAL CONCRETE. CONCRETE PLACED DURING COLD WEATHER SHALL CONFORM TO ACI 306. ALL COLD WEATHER CONCRETE AND CONCRETE EXPOSED TO WEATHER SHALL CONTAIN AIR ENTRAINMENT PER ACI 318 TABLE 4.2.1.

THE FOLLOWING MINIMUM CONCRETE COVER SHALL BE PROVIDED FOR REINFORCEMENT FOR CAST-IN-PLACE CONCRETE: A. CONCRETE CAST AGAINST EARTH 3-INCHES B. CONCRETE EXPOSED TO EARTH OR WEATHER 2-INCHES

## 3/4" CHAMFER ALL EXPOSED CONCRTE EDGES.

ALL CONCRETE REINFORCING SHALL BE DETAILED, FABRICATED, LABELED. SUPPORTED AND SPACED IN FORMS AND SECURED IN PLACE IN ACCORDANCE WITH THE LATEST EDITIONS OF ACI 315, ACI 318. AASHTO LRFD BRIDGE DESIGN SPECIFICATION, CRSI MSP-1 AND ACI SP-66. DOWELS SHALL MATCH SIZE AND NUMBER OF MAIN REINFORCING.

TYPICAL REINFORCING BARS SHALL BE ASTM A615, GRADE 60. LAP SPLICES SHALL BE CLASS B LAPS PER ACI (63 X BAR DIAMETER). LAP SPLICES MAY ALSO ACCOMPLISHED USING MECHANICAL DEVICES THAT DEVELOP 125% OF THE STRENGTH OF THE REBAR.

CHECKED SHOP DRAWINGS SHOWING REINFORCING DETAILS. INCLUDING STEEL SIZES. SPACING AND PLACEMENT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW PRIOR TO FABRICATION.

# STRUCTURAL STEEL

MATERIALS: STRUCTURAL STEEL TUBING (HSS): ASTM A847

ALL OTHER SHAPES AND PLATES: ASTM A588 ASTM A325, TYPE 3 BOLTS FASTENERS: **ANCHOR RODS** F1554, GRADE 36, GALV

ALL DETAILING, FABRICATION AND ERECTIONS SHALL CONFORM TO AISC SPECIFICATIONS AND CODES, LATEST EDITION. FABRICATOR MUST PARTICIPATE IN THE AISC QUALITY CERTIFICATION PROGRAM, BE CERTIFIED BY THE MUNICIPALITY OF ANCHORAGE, OR SPECIAL INSPECTIONS AT THE CONTRACTOR'S EXPENSE, MUST BE PROVIDED IN THE FABRICATION SHOP.

WELDING RODS AND BARE ELECTRODES SHOULD BE SELECTED ACCORDING TO AWS SPECIFICATIONS FOR METAL ALLOY WELDED.

REMOVE BURRS AND EASE EDGES TO A RADIUS OF APPROXIMATELY 1/32 INCH UNLESS OTHERWISE INDICATED. REMOVE SHARP OR ROUGH AREAS ON EXPOSED SURFACES.

ITEM

CONCRETE SLUMP, AIR CONTENT, TEMPERATURE & PREPARATION

PROTECTION OF CONCRETE DURING COLD WEATHER (TEMPERATURE

BELOW 40° F) OR HOT WEATHER (TEMPERATURE ABOVE 90° F)

## FIBERGLASS GRATING

GRATING SHALL BE 2.5" DEEP PULTRUDED FRP GRATING WITH OPEN AREA OF +/- 60%. TOP COAT COLOR SHALL BE DARK GRAY. SURFACE TO BE GRITTED. GRATING TO SPAN PERPENDICULAR TO THE LONGITUDINAL AXIS OF THE BRIDGE.

BASIS OF DESIGN IS MONACOMPOSITES HEAVY DUTY 2.5" DEEP 60% OPEN PULTRUDED GRATING, ISOFR, DARK GRAY, GRITTED (MCHD6025).

GRATING MANUFACTURER TO PROVIDE RECESSED FASTENERS TO SECURE EACH SECTION OF GRATING WITH NOT LESS THAN (4) FASTENERS PER SECTION. FASTENERS THAT PROTRUDE ABOVE THE WALKING SURFACE WILL NOT BE ACCEPTED.

## STATEMENT OF SPECIAL INSPECTIONS

P.I.

STRUCTURAL SYSTEMS ARE SUBJECT TO THE REQUIREMENTS OF THIS STATEMENT OF SPECIAL INSPECTIONS AND THE STRUCTURAL SPECIAL INSPECTION AND TESTING SCHEDULE IN ACCORDANCE WITH IBC 2018 SECTION 1705.

THE OWNER SHALL ENGAGE A SPECIAL INSPECTOR PER CHAPTER 17 OF THE IBC 2018. SPECIAL INSPECTION AND TESTING SHALL BE AS OUTLINED IN THE SPECIAL INSPECTIONS AND TESTING SCHEDULE WHERE REQUIREMENTS OVERLAP, THE MORE STRINGENT IS TO BE

SPECIAL INSPECTION IS NOT REQUIRED FOR COMPONENTS FABRICATED IN A SHOP APPROVED BY THE MUNICIPALITY OF ANCHORAGE TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION.

### **DISTRIBUTION OF REPORTS**

COPIES OF THE SPECIAL INSPECTION AND TEST REPORTS SHALL BE DISTRIBUTED TO THE GENERAL CONTRACTOR AND THE ENGINEER OF RECORD. REPORTS SHALL BE COMPLETED DAILY AND DISTRIBUTED ON A WEEKLY BASIS AND SHALL BE DISTRIBUTED BY THE MONDAY FOLLOWING THE WEEK IN WHICH THE INSPECTION OR TEST WAS COMPLETED. A COPY OF ALL SPECIAL INSPECTION REPORTS, DEFICIENCIES AND CORRECTIVE ACTIONS SHALL BE MAINTAINED AT THE JOB SITE.

## STRUCTURAL OBSERVATIONS

STRUCTURAL OBSERVATIONS ARE REQUIRED PER IBC 1704.6. SITE VISITS BY THE ENGINEER OF RECORD OR A REGISTERED ENGINEER APPROVED BY THE ENGINEER OF RECORD SHALL BE MADE ON A PERIODIC BASIS AT CRITICAL STAGES OF CONSTRUCTION TO MAKE VISUAL OBSERVATIONS OF THE CONSTRUCTION FOR GENERAL CONFORMANCE TO THE CONSTRUCTION DOCUMENTS. COPIES OF THE OBSERVATION REPORTS SHALL BE DISTRIBUTED WITHIN 2 WORKING DAYS OF THE SITE VISIT TO THE GENERAL CONTRACTOR. THE CIVIL ENGINEER, AND TO THE SPECIAL INSPECTOR INVOLVED IN ANY ISSUES RAISED IN THE REPORT.

CONTRACTOR STATEMENT OF RESPONSIBILITY

CONTRACTOR SHALL SUBMIT A WRITTEN STATEMENT OF RESPONSIBILITY TO THE OWNER IN ACCORDANCE WITH IBC 1704.4. THE STATEMENT SHALL ACKNOWLEDGE AWARENESS OF THE SPECIAL REQUIREMENTS OF THE SPECIAL INSPECTION PLAN; ACKNOWLEDGE THAT CONTROL WILL BE EXERCISED TO OBTAIN CONFORMANCE WITH THE CONSTRUCTION DOCUMENTS; IDENTIFY PROCEDURES FOR EXERCISING CONTROL; THE METHOD AND FREQUENCY OF REPORTING, AND THE DISTRIBUTION OF REPORTS AND IDENTIFY PERSONS THAT WILL EXERCISE CONTROL AND THEIR QUALIFICATIONS.

AT LEAST ONCE A DAY DURING PLACEMENT

MAINTAIN PROPER TEMPERATURE AND CURING TECHNIQUE

REMARKS

PROVIDE TEST ONCE EVERY 150 CY, OR EACH 5000 SQ-FT OF SLABS OR WALLS, BUT

PREFABRICATED ITEMS	Х	Х	IBC 1704.2.5	SAME AS WORK DONE ON SITE
SOILS			IBC 1705.6, TABLE 1705.6	
VERIFY: - MATERIAL BELOW FOUNDATIONS ARE ADEQUATE FOR BEARING CAPACITY - EXCAVATION DEPTH AND PROPER MATERIAL REACHED BY DEPTH - PRIOR TO COMPACTED FILL, OBSERVE SUBGRADE AND SITE PREPERATION		X		
VERIFY USE OF PROPER MATERIALS DENSITIES AND LIFT THICKNESSES DURING PLACEMENT AND COMPACTION OF COMPACTED FILL	X			
PERFORM CLASSIFICATION AND TESTING OF CONTROLLED FILL MATERIALS	T			ONLY IF TOTAL CONTROLLED FILL DEPTH IS MORE THAN 12-INCHES
CONCRETE:			ACI 318-14, 301-16, 302.1R-15, ACI 311.1R-07; ACI 311.4R-05; IBC 1705.3, TABLE 1705.3	
REINFORCING MATERIALS AND PLACEMENT		Х	ACI 318: Ch.20, 25.2, 25.3, 26.6.1-26.6.3	
INSPECTION OF FORMWORK FOR SHAPE, LOCATION & DIMENSIONS		Х	ACI 318 26.11.2(b)	
ANCHOR RODS, EMBEDDED BOLTS & INSERTS		Х	ACI 318.17.8.2	PRIOR TO AND DURING CONCRETE PLACEMENT
USE OF REQUIRED MIX DESIGN		Х	ACI 318: Ch.19, 26.4.3, 26.4.4; ACI 304R-00; IBC 1904.1, 1904.2	

ACI 318 26.5; ACI 304.2R-17

ACI 318 26.5; ACI 308R-16

ASTM C172, C31; ACI 318; 26.5, 26.12; ACI 311.5-04

ACI 318 26.5.4, 26.5.5; ACI 306R-16; ACI 305R-20

SPECIAL INSPECTION & TESTING SCHEDULE

REFERENCE STANDARD

# **SCHEDULE NOTES:**

GROUTING OF BASE PLATES

CONCRETE PLACEMENT

CONCRETE CURING

OF STRENGTH TEST SPECIMENS

1. ITEMS MARKED WITH AN "X" REQUIRE INSPECTION BY A SPECIAL INSPECTOR, ITEMS INDICATED WITH A "T" REQUIRE TESTING, ITEMS MARKED WITH A "D" REQUIRE SPECIFIC DOCUMENTATION PER AISC.

Χ

Χ

- 2. C.I. = CONTINUOUS INSPECTION DURING PROGRESS OF WORK BY SPECIAL INSPECTOR.
- 3. P.I. = PERIODIC INSPECTION BY SPECIAL INSPECTOR AS REQUIRED TO CONFIRM CONFORMANCE OF WORK

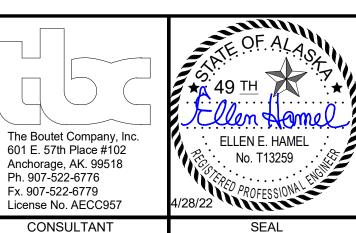
## STRUCTURAL ABBREVIATIONS

@ At	BLDG Building	COL Column	EW Each Way	IBC International Building Code	MIN Minimum	PSI Pounds-Per-Square-Inch	T&G Tongue and Groove	VERT Vertical
AB Anchor Bolt	BLKG Blocking	CONC Concrete	EXP Expansion	INT Interior	(N) New	REINF Reinforcement	T.O. Top Of	w/ With
ADD'L Additional	BOT Bottom	CONT Continuous	FDTN Foundation	LAG Lag Screw	OC On-Center	REQ'D Required	T.O.B. Top Of Beam	W/0 Without
ADH Adhesive	BFE Base Flood Elevation	CONTR Contractor	FF Finished Floor	LOC Location, Locate	OH Overhead	SCH Schedule	T.O.S. Top Of Steel	W Wide Flange
AFF Above Finished Floor	BTWN Between	DIA, Ø Diameter	GALV Galvanized	LONG Longitudinal	OPNG Opening	SIM Similar	T.O.W. Top Of Wall	W/C Water/Cement Ratio
ALT Alternate	CJ Construction Joint	(E) Existing	GLB Glue Laminated Beam	MAX Maximum	PL, Plate	SQ Square	TRANS Transverse	WWF Welded Wire Fabric
APPROX Approximate	CL Centerline	EA Each	HORZ Horizontal	MEZZ Mezzanine	PLS Places	STL Steel	TYP Typical	
ARCH Architect, Architectural	CLR Clear	EQ Earthquake, Equal	HSS Hollow Structural Section	MFR Manufacturer	PSF Pounds-Per-Square-Foot	T&B Top and Bottom	UON Unless Otherwise Noted	

									REV	DATE	DESCRIPTION	BY
CONSTRUCTION RECORD VERTICAL DATUM		PLAN CHECK					REVISIONS					

4300 B St., Suite 302 Anchorage, AK 99503 Phone 907 562-3439 - www.reidmiddleton.com Corporate License #AECC598 © Copyright Reid Middleton, Inc. 2022

CONSULTANT





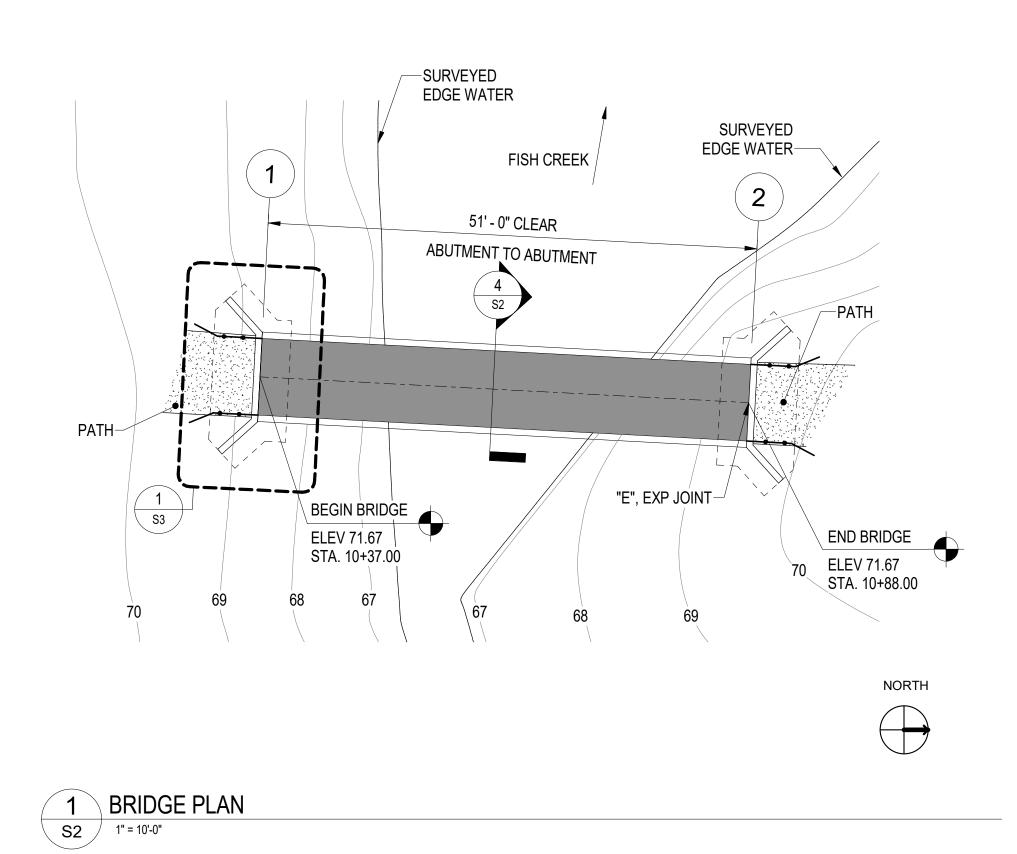


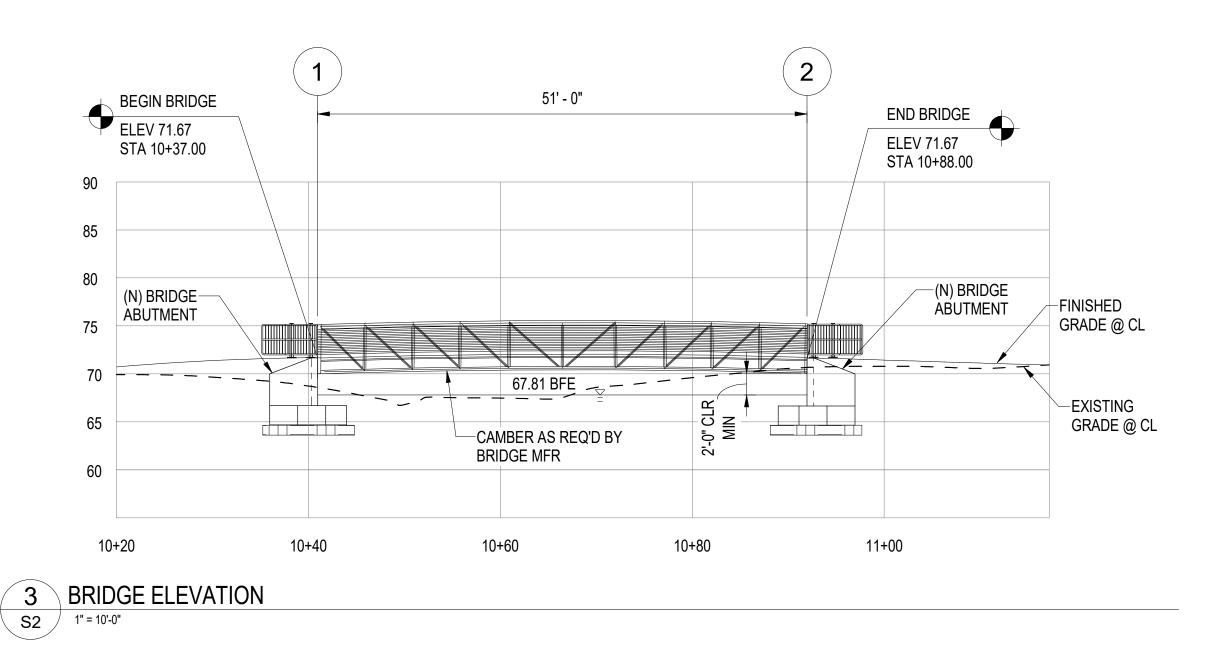
# PARKS AND RECREATION DEPARTMENT

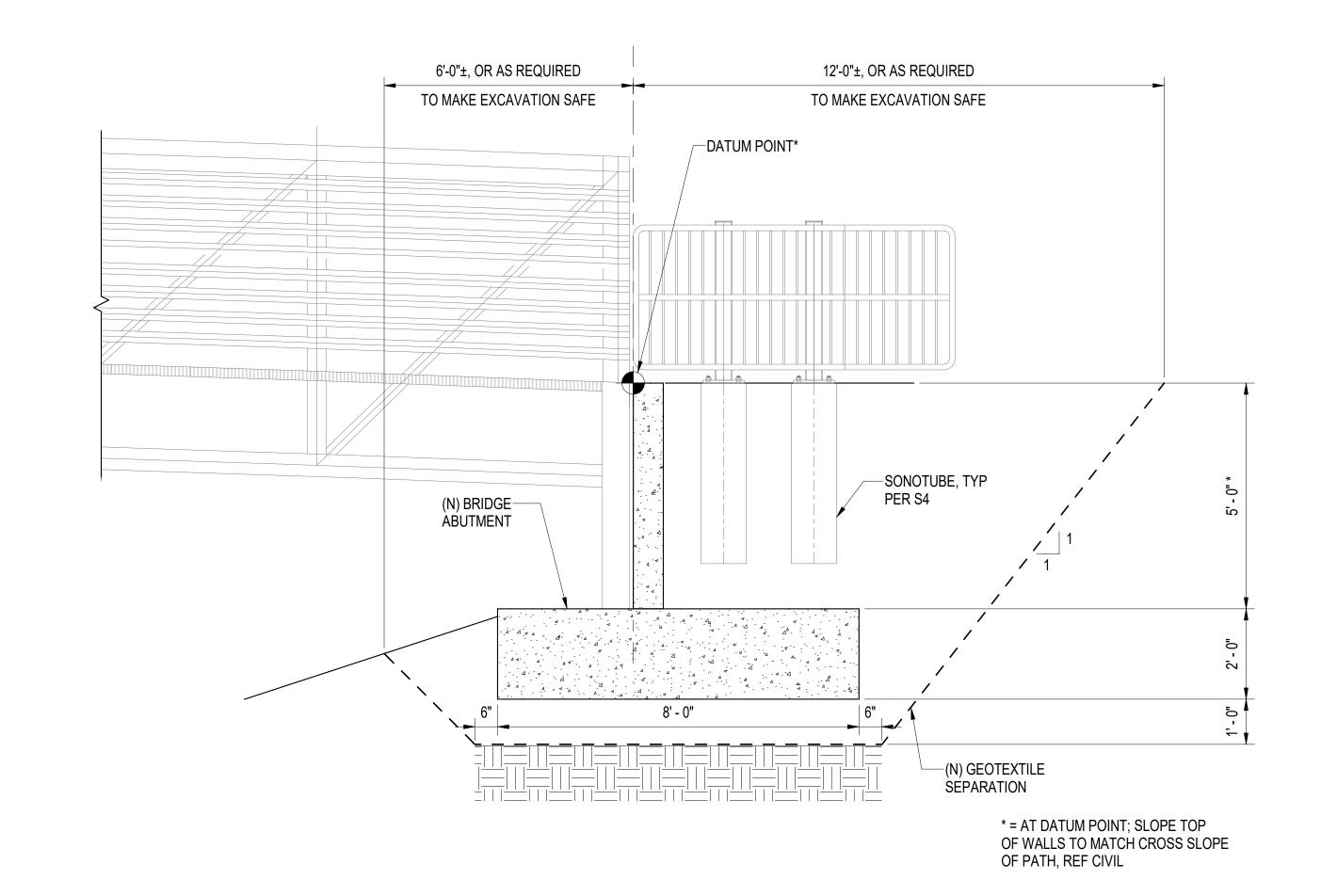
URE PARK TRAIL AND BRIDGE

	DATE 4/00/0000
/	
	GENERAL NOTES & QUALITY ASSURANCE

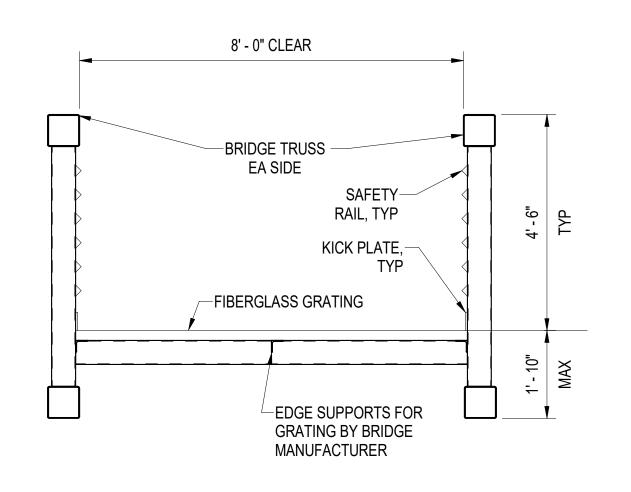
SCALE	HOR. PER SHEET	DATE: 4/28/2022	GRID: N/A	SHEET	S1 of	
	VER. PER SHEET	STATUS: 100% SUBMI	SHEET	S4		







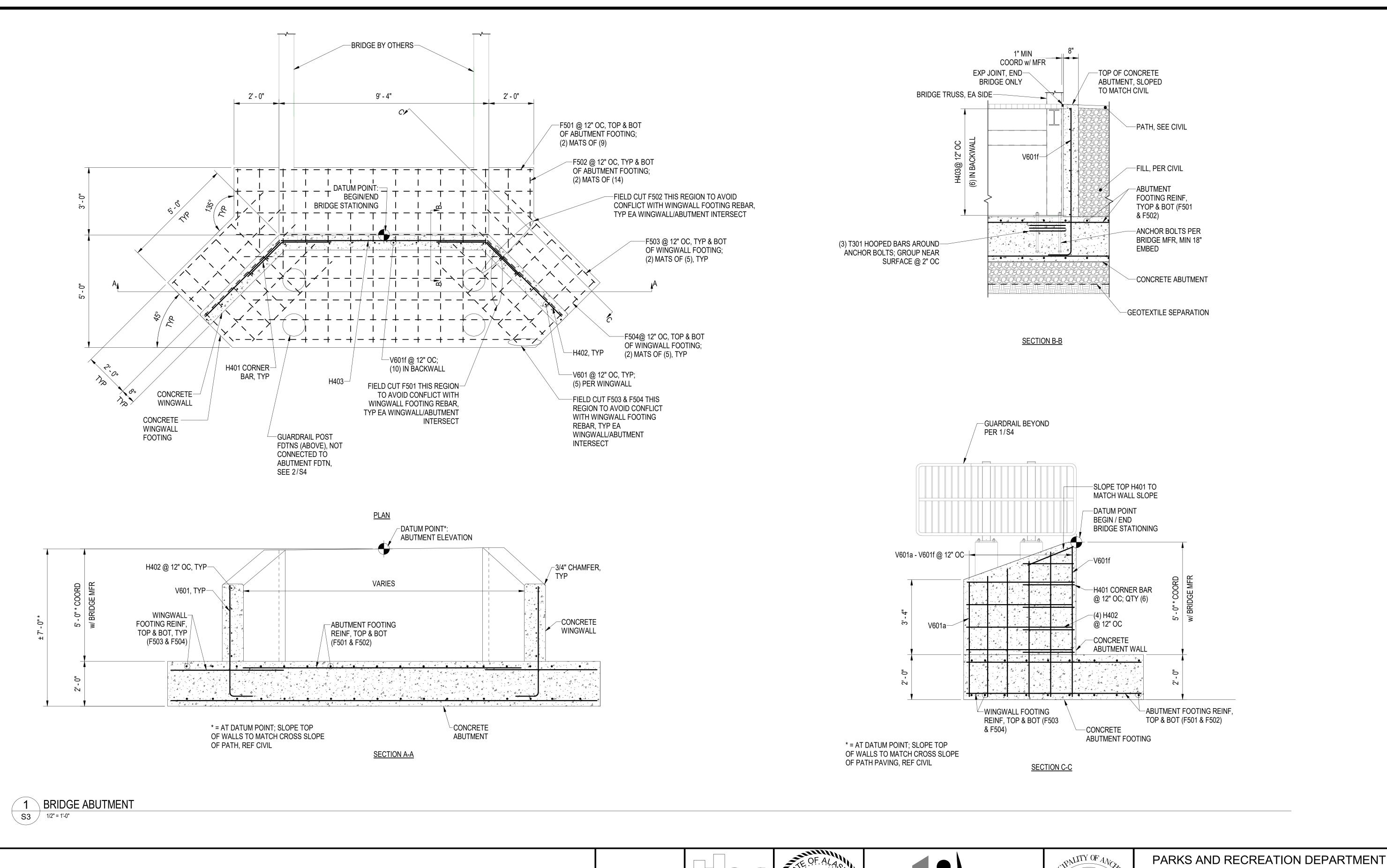
2 ABUTMENT SECTION
S2 1/2" = 1'-0"



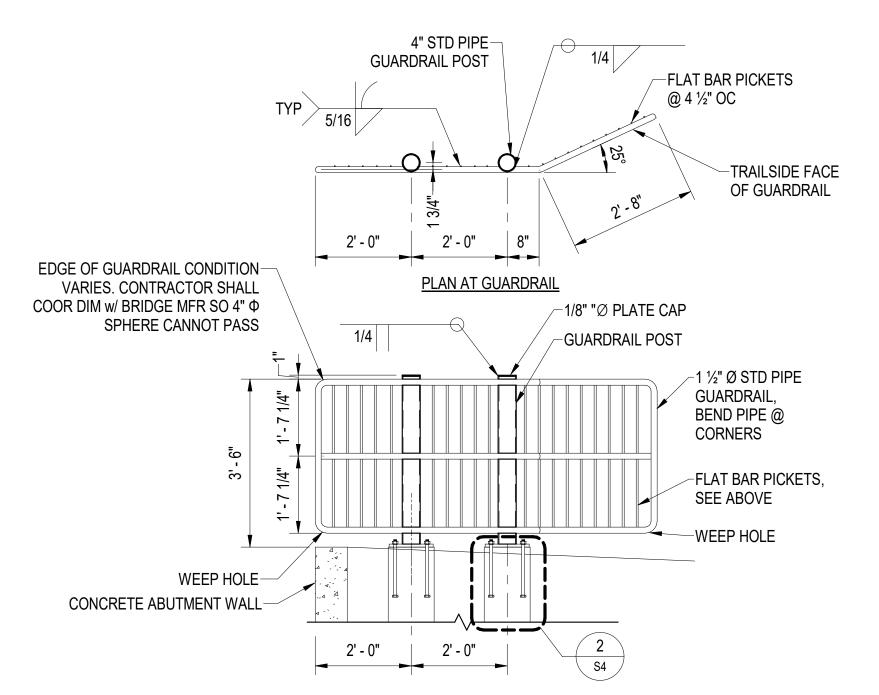
4 BRIDGE SECTION

S2 1/2" = 1'-0"

				OF. ALAON			CIPALITY OF AVOID	PARKS AND RECREATION DEPARTMENT		
			REV DATE DESCRIPTION BY	Reid Viddleton  4300 B St., Suite 302 Anchorage, AK 99503 Phone 907 562-3439 - www.reidmiddleton.com Corporate License #AECC598 © Copyright Reid Middleton, Inc. 2022	The Boutet Company, Inc.	Anchorage Parks		URE PARK TRAIL AND BRIDGE PLAN & PROFILE		
					Fx. 907-522-6776 Fx. 907-522-6779 License No. AECC957 4/28/22	ESSIONAL FRANCE HEALTHY PEOPLE		SCALE HOR. PER SHEET VER. PER SHEET VER. PER SHEET STATUS: 100% SUBMITTAL SHEET SHEET STATUS: 100% SUBMITTAL		
CONSTRUCTION RECORD	VERTICAL DATUM	PLAN CHECK	REVISIONS	CONSULTANT	CONSULTANT SE	EAL		01/4100, 100 // 00 BMITTINE		



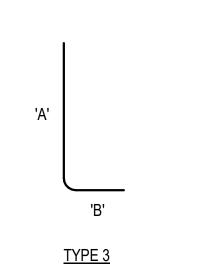
DESCRIPTION URE PARK TRAIL AND BRIDGE 4300 B St., Suite 302 Anchorage, AK 99503 Phone 907 562-3439 - www.reidmiddleton.com The Boutet Company, Inc. 601 E. 57th Place #102 SECTIONS & DETAILS Corporate License #AECC598
© Copyright Reid Middleton, Inc. 2022 ELLEN E. HAMEL No. T13259 Anchorage, AK. 99518 AND RECREATION Ph. 907-522-6776 DATE: 4/28/2022 Fx. 907-522-6779 HOR. PER SHEET S3<sub>of</sub> HEALTHY PARKS, HEALTHY PEOPLE SCALE SHEET License No. AECC957 VER. PER SHEET STATUS: 100% SUBMITTAL CONSTRUCTION RECORD VERTICAL DATUM PLAN CHECK CONSULTANT REVISIONS CONSULTANT SEAL

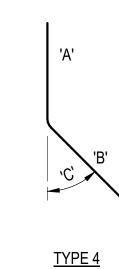


REINFORCING STEEL - ONE ABUTMENT Mark Quantity Size Length Type NOTE 1 4 1/4" T301 #3 T302 #3 4'-5" 4'-5" 4" #4 4'-4" 4 2'-2" 2' - 2" 45° H402 STRAIGHT 4'-8" #4 H403 9'-0" STRAIGHT F501 13'-0" STRAIGHT 18 #5 F502 28 7'-8" STRAIGHT #5 F503 5'-8" #5 STRAIGHT 4'-4" 20 #5 STRAIGHT V505 #5 3'-7" STRAIGHT V601a #6 5'-11" 4'-11" 1' - 0" V601b 6'-3" 5'-3" 1' - 0" #6 3 6'-7" 5'-7" 1' - 0" V601d 1' - 0" 6'-11 ½" 3 5'-11 ½" V601e 7'-3 ½" 6'-3 ½" 1' - 0" 7'-7" 6'-7" 1' - 0"

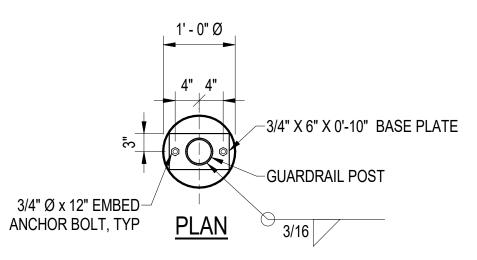
TYPE 1

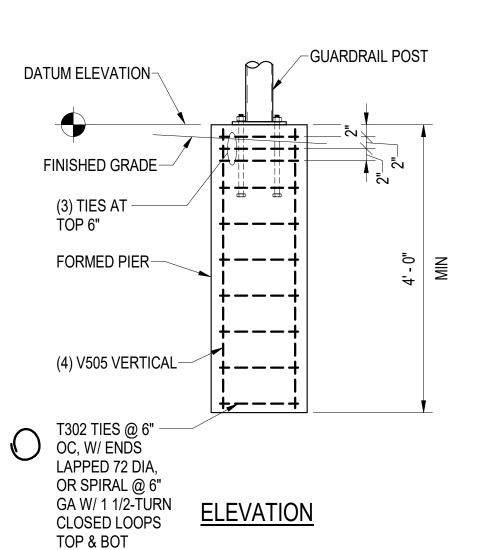
TYPE 2





1 TYPICAL GUARDRAIL DETAIL S4 / 1/2" = 1'-0"



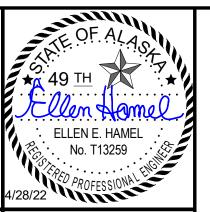


GUARDRAIL POST FOUNDATION S4 / 3/4" = 1'-0"

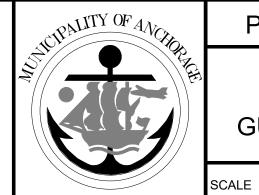
REINFORCING STEEL TABLE S4 1 1/2" = 1'-0"

1. CONTRACTOR TO COORDINATE BAR DIMENSIONS WITH BRIDGE SUBMITTAL.

2. BAR BEND NOTATIONS: T = TIE, H = HORIZONTAL, F = FOOTING, AND V = VERTICAL.







# PARKS AND RECREATION DEPARTMENT

URE PARK TRAIL AND BRIDGE **GUARDRAIL & REINFORCEMENT DETAILS** 

SHEET S4 of DATE: 4/28/2022 HOR. PER SHEET VER. PER SHEET STATUS: 100% SUBMITTAL

				4300 B St., Suite 302 Anchorage, AK 99503 Phone 907 562-3439 - www.reidmiddleton.com Corporate License #AECC598 © Copyright Reid Middleton, Inc. 2022		ELLEN E. HAMEL  No. T13259  A/28/22	
CONSTRUCTION RECORD	VERTICAL DATUM	PLAN CHECK	REVISIONS	CONSULTANT	CONSULTANT	SEAL	