

ADDENDUM NO. 2
TO THE BID DOCUMENTS
Tasmania Court Water Main Extension
CITY OF HOMER, ALASKA

Addendum Issue Date: July 20, 2021

Bid Submittal Date: August 27, 2021

Previous Addenda Issued: 1

Issued By: Janette Keiser, PE
Public Works Director
City of Homer

Notice to Bidders:

Bidders must **acknowledge receipt of this addendum** by including the Addenda Acknowledgement Form with the bid.

Bidders are required to acknowledge each addenda separately on the Addenda Acknowledgement Form. Any bids received without acknowledgment of addenda may be rejected prior to evaluation.

The Bid Documents for the above project are amended as follows (all other terms and conditions remain unchanged):

The project engineer has made revisions to the construction drawings. Attached are the following:

1. New Construction Drawings

CITY OF HOMER

SOUTH SLOPE DRIVE, WEST TASMANIA COURT & EAST TASMANIA COURT

WATER MAIN EXTENSION

JULY 16, 2021

Homer City Council

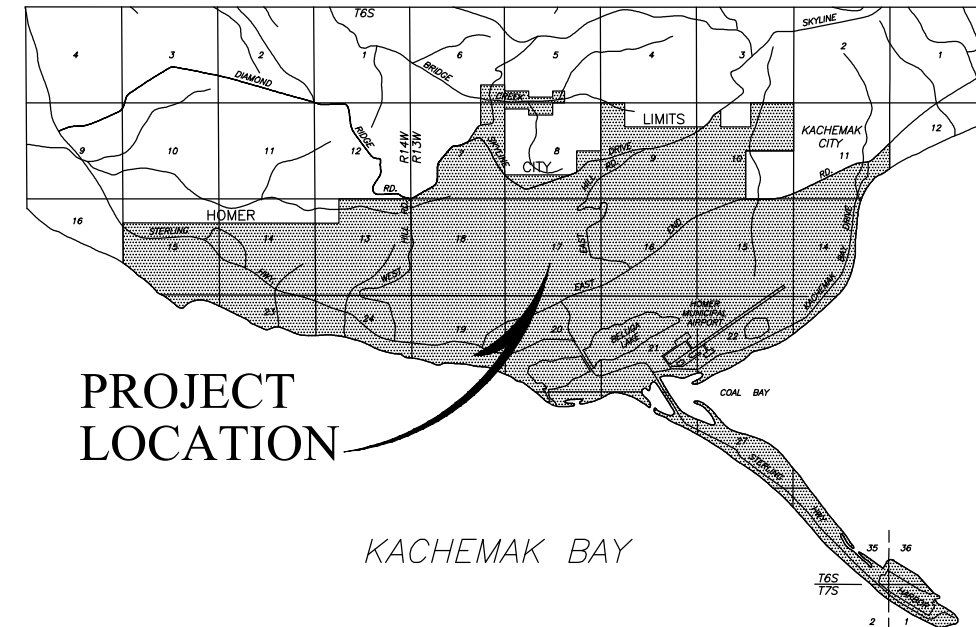
Mayor
Ken Castner

Councilmembers
Donna Aderhold
Joey Evenson
Storm Hansen-Cavasos
Rachel Lord
Heath Smith
Caroline Venuti

Public Works Director
Janette Keiser, PE



LOCATION MAP



HOMER AREA MAP

SCALE: 1" = 1 MILE

INDEX TO DRAWINGS

TITLE

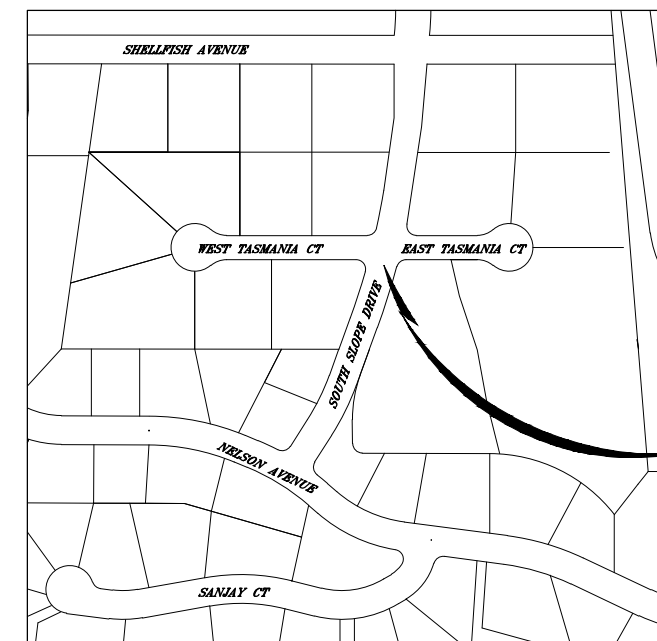
SOUTH SLOPE DRIVE WATER MAIN EXTENSION PLAN & PROFILE 10+00.00 TO 12+50.00
 WEST TASMANIA COURT WATER MAIN EXTENSION PLAN & PROFILE 50+00.00 TO 54+40.00
 EAST TASMANIA COURT WATER MAIN EXTENSION PLAN & PROFILE 90+00.00 TO 92+40.00
 CONSTRUCTION DETAILS
 CONSTRUCTION NOTES
 EROSION CONTROL PLAN NO. 1
 EROSION CONTROL PLAN NO. 2
 EROSION CONTROL PLAN NO. 3
 EROSION CONTROL DETAILS

SHEET

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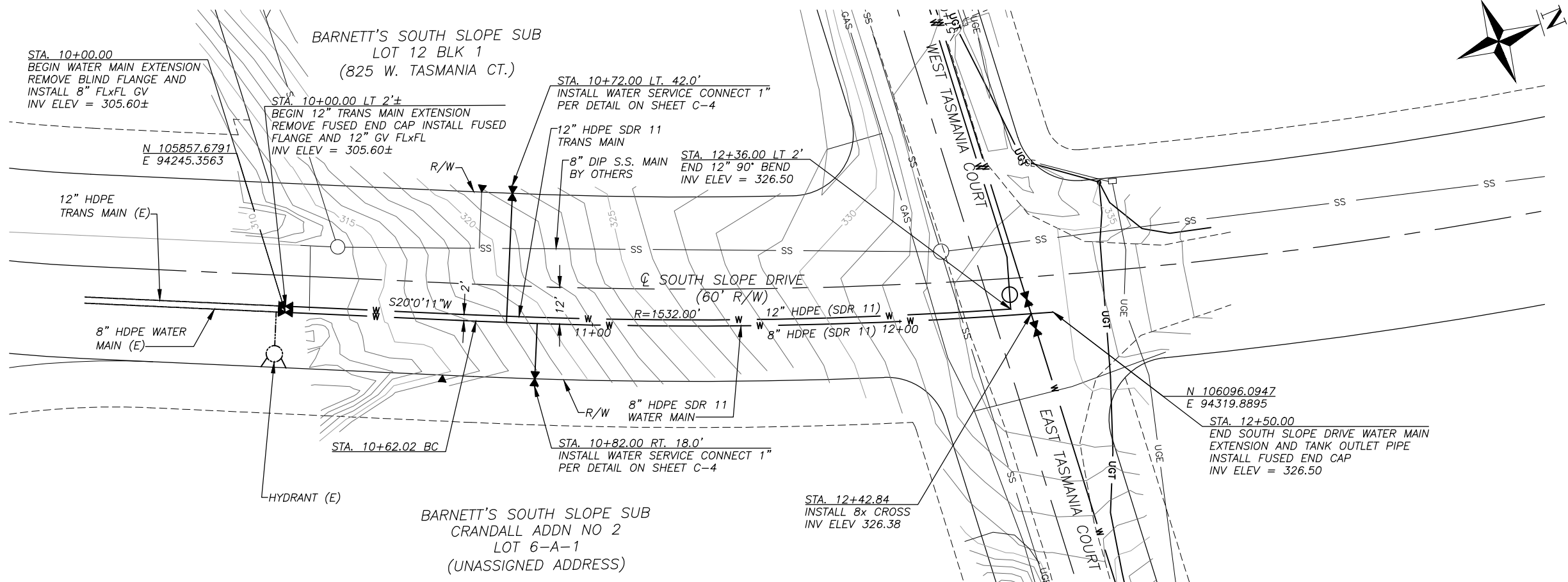
Notes:

1. BEFORE PERFORMING ANY EXCAVATIONS, CALL ALASKA DIGLINE AT: 811, (800) 478-3121, OR (907) 278-3121.
2. THESE PLANS SHALL BE USED IN CONJUNCTION THE CITY OF HOMER "STANDARD CONSTRUCTION DETAILS" IN ADOPTION ON JULY 16, 2021.

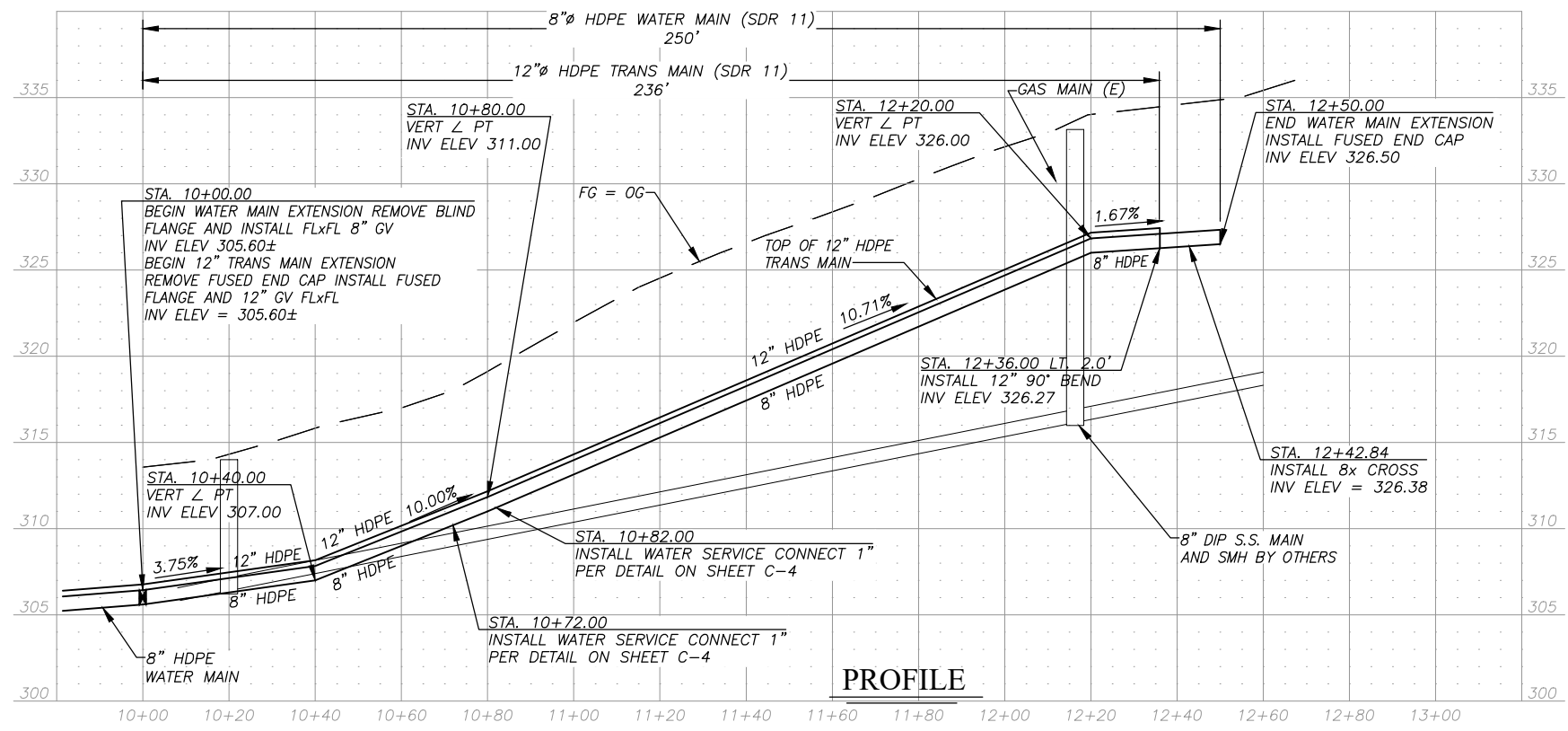


VICINITY MAP

SCALE: 1" = 200'



PLAN
GRAPHIC SCALE



PROFILE

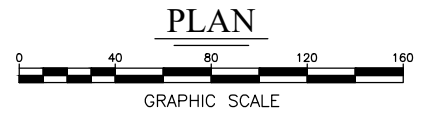
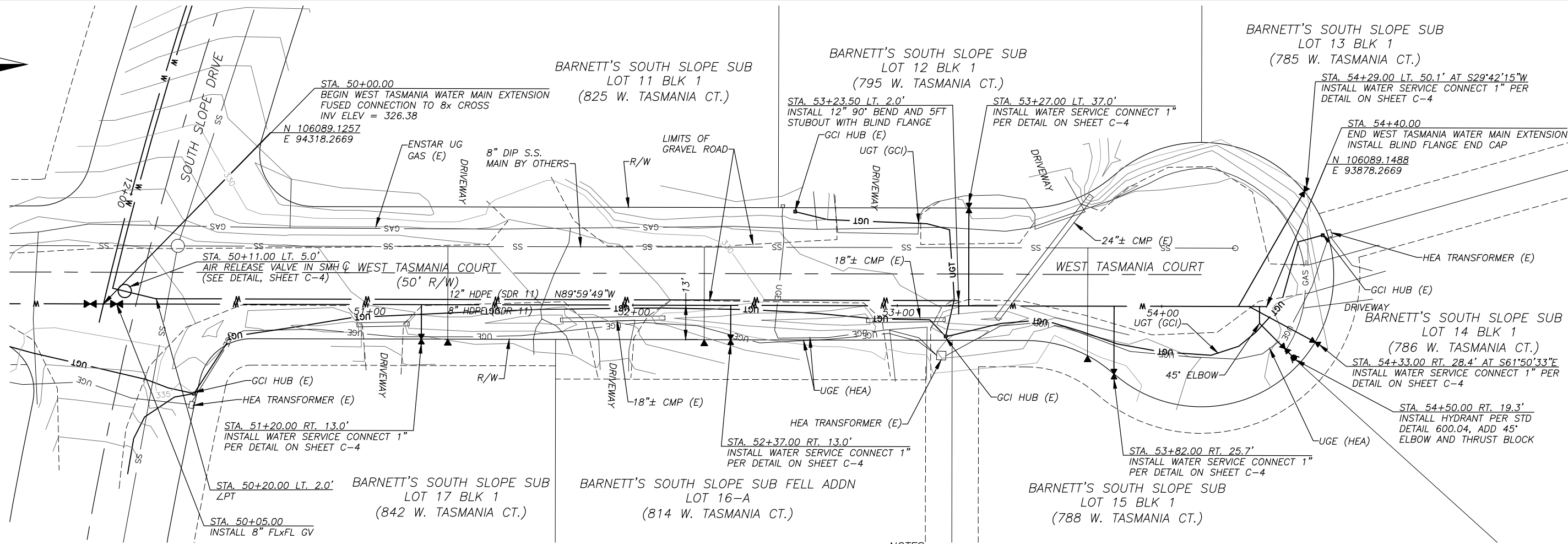
- NOTES:**
- BEFORE PERFORMING ANY EXCAVATIONS, CALL ALASKA DIGLINE AT 811, (800) 478-3121, OR (907) 278-3121.
 - SEE "DETAIL A - STRUCTURAL TRENCH SECTION" ON SHEET C-4 FOR WATER MAIN AND WATER SERVICE TRENCHES WITHIN GRAVEL SURFACED AREAS. TOTAL OF 29± LINEAR FEET THIS SHEET.
 - SEE "DETAIL B - NON-STRUCTURAL TRENCH SECTION" ON SHEET C-4 FOR WATER MAIN AND WATER SERVICE TRENCHES WITHIN NATIVE SURFACE SOIL AREAS. TOTAL OF 281± LINEAR FEET THIS SHEET.
 - FOR PROFILE OF 12" HDPE TANK OUTLET PIPE, SEE PROFILE OF 8" HDPE WATER MAIN.

SOUTH SLOPE DRIVE WATER MAIN EXTENSION
WATER MAIN PLAN + PROFILE
STA 10+00.00 to 12+50.00

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
(907) 299-7609

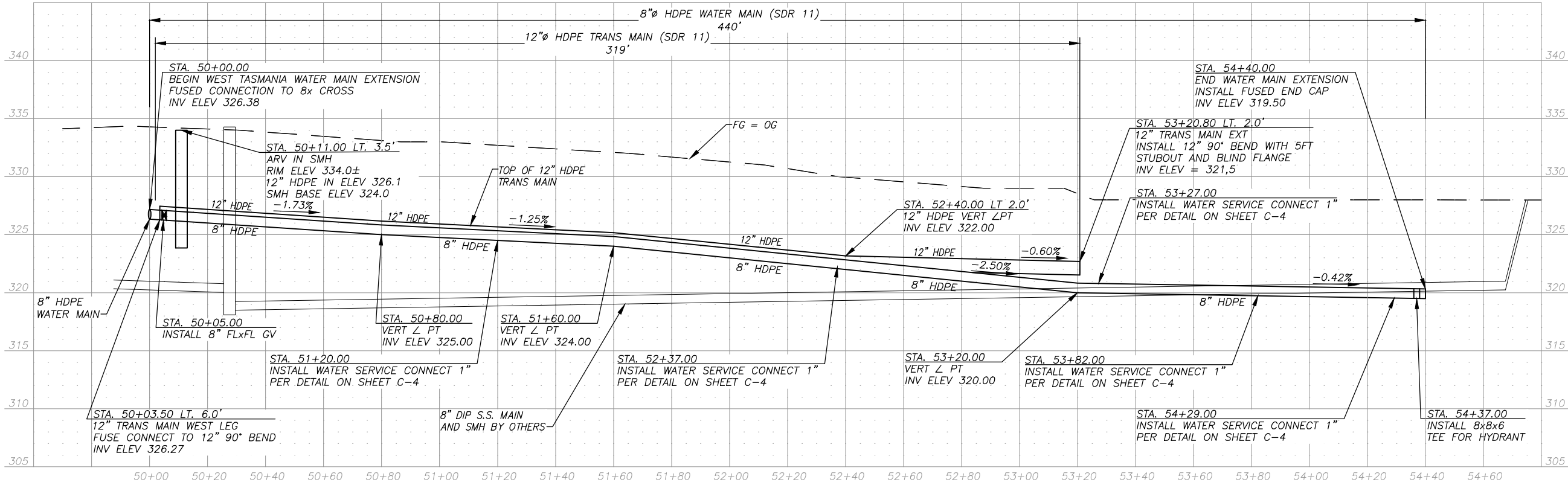
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CHK'D: JSB
SCALE: AS NOTED
PROJ. NO.: 2021005

SHEET NO.:
C-1



NOTES:

1. BEFORE PERFORMING ANY EXCAVATIONS, CALL ALASKA DIGLINE AT 811, (800) 478-3121, OR (907) 278-3121.
2. SEE "DETAIL A - STRUCTURAL TRENCH SECTION" ON SHEET C-4 FOR WATER MAIN AND WATER SERVICE TRENCHES WITHIN GRAVEL SURFACED AREAS. TOTAL OF 328± LINEAR FEET THIS SHEET.
3. SEE "DETAIL B - NON-STRUCTURAL TRENCH SECTION" ON SHEET C-4 FOR WATER MAIN AND WATER SERVICE TRENCHES WITHIN NATIVE SURFACE SOIL AREAS. TOTAL OF 303± LINEAR FEET THIS SHEET.



PROFILE

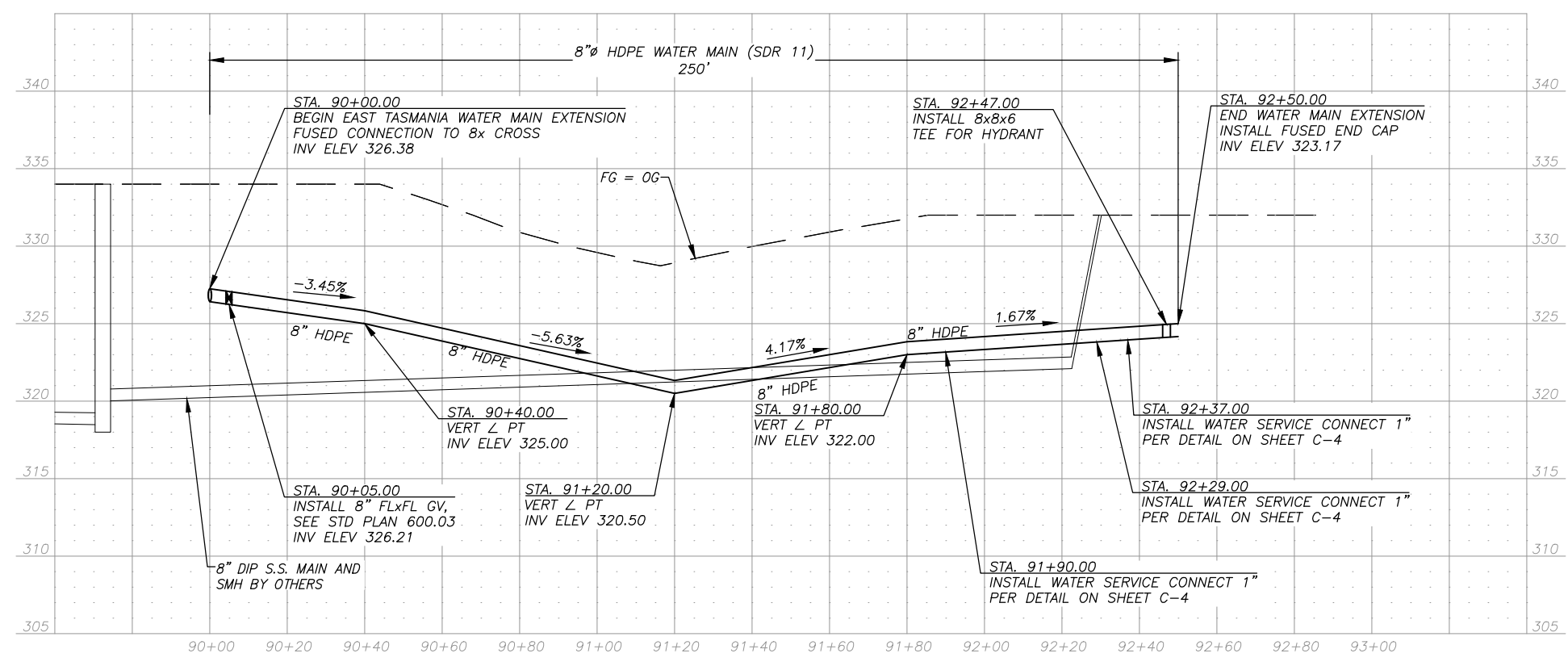
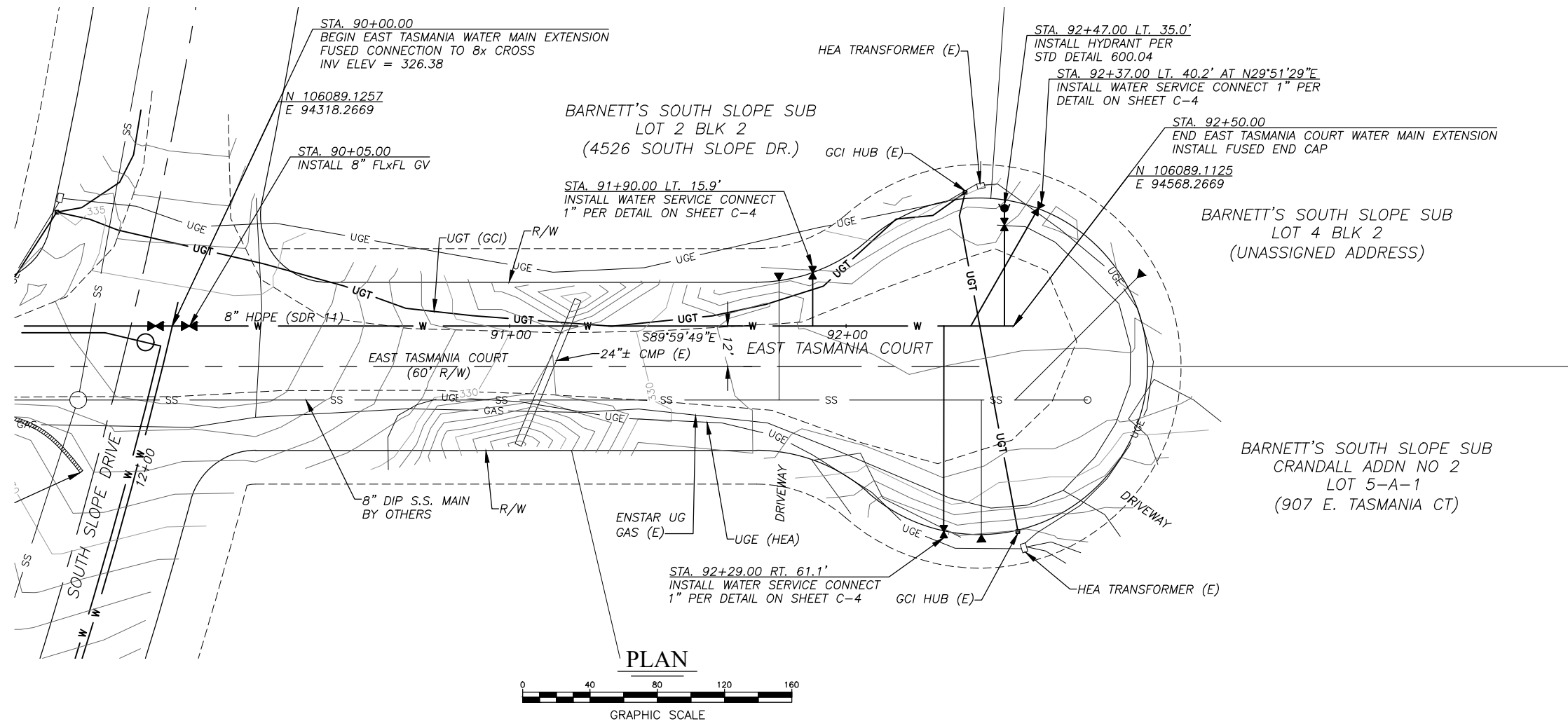
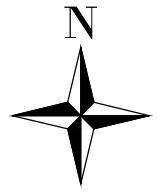
WEST TASMANIA COURT WATER MAIN EXTENSION
WATER MAIN PLAN + PROFILE
STA 50+00.00 to 54+40.00

BISHOP ENGINEERING, LLC
 PO BOX 2501 HOMER, ALASKA 99603
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SHEET NO.:

C-2



PROFILE

NOTES:

1. BEFORE PERFORMING ANY EXCAVATIONS, CALL ALASKA DIGLINE AT 811, (800) 478-3121, OR (907) 278-3121.
2. SEE "DETAIL A - STRUCTURAL TRENCH SECTION" ON SHEET C-4 FOR WATER MAIN AND WATER SERVICE TRENCHES WITHIN GRAVEL SURFACED AREAS. TOTAL OF 236± LINEAR FEET THIS SHEET.
3. SEE "DETAIL B - NON-STRUCTURAL TRENCH SECTION" ON SHEET C-4 FOR WATER MAIN AND WATER SERVICE TRENCHES WITHIN NATIVE SURFACE SOIL AREAS. TOTAL OF 168± LINEAR FEET THIS SHEET.

EAST TASMANIA COURT WATER MAIN EXTENSION
WATER MAIN PLAN + PROFILE
STA 90+00.00 to 92+50.00

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SHEET NO.:
C-3

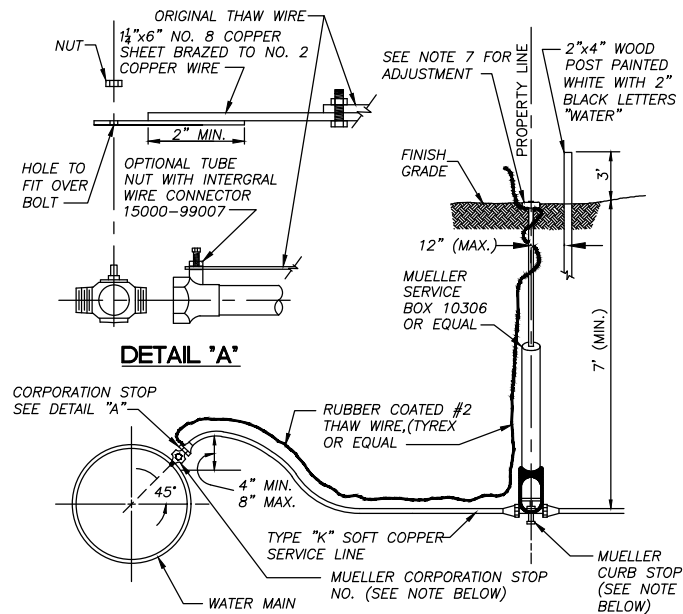


SOUTH SOPE DRIVE, WEST TASMANIA COURT, AND EAST TASMANIA COURT WATER MAIN EXTENSION
CONSTRUCTION DETAILS

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
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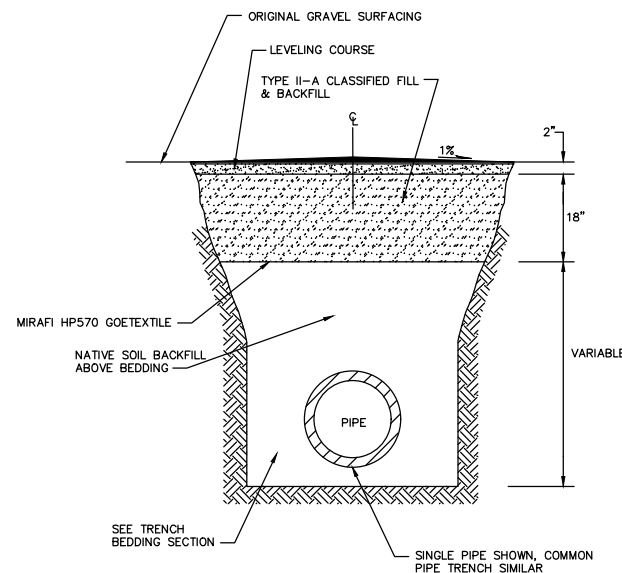
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SHEET NO.:
C-4



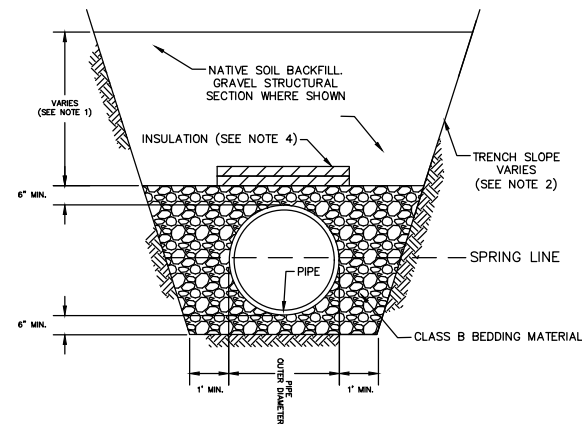
- NOTES:
1. USE MUELLER CORPORATION STOP NO. 15025 FOR PIPE-THREAD SADDLES.
 2. USE MUELLER CORPORATION STOP NO. 15000 FOR STEEL PIPE.
 3. USE MUELLER CURB STOP NO. H-15204 OR EQUAL FOR COPPER TO COPPER CONNECTIONS.
 4. ROD TO BE ATTACHED TO CURB STOP WITH NO. 6 GAUGE COPPER WIRE, NO SUBSTITUTIONS.
 5. MUELLER SERVICE CLAMPS TO BE USED ON ALL PLATIC PIPE, DOUBLE STRAP OR EQUAL.
 6. HDPE MAINLINES SHALL UTILIZE A SIDEWALL BRANCH SADDLE WITH INTEGRAL BRASS CC THREAD INSERT TO RECEIVE CORPORATION STOP.
 7. CURB BOX FINISH ELEVATION SHALL BE AS FOLLOWS:
 - PAVED AREA 0.5" BELOW FINISH GRADE
 - GRAVEL AREA 1" TO 3" BELOW FINISH GRADE
 - YARD/UNDEVELOPED AREA 0" TO 3" ABOVE FINISH GRADE

WATER SERVICE CONNECT 1"Ø
NOT TO SCALE



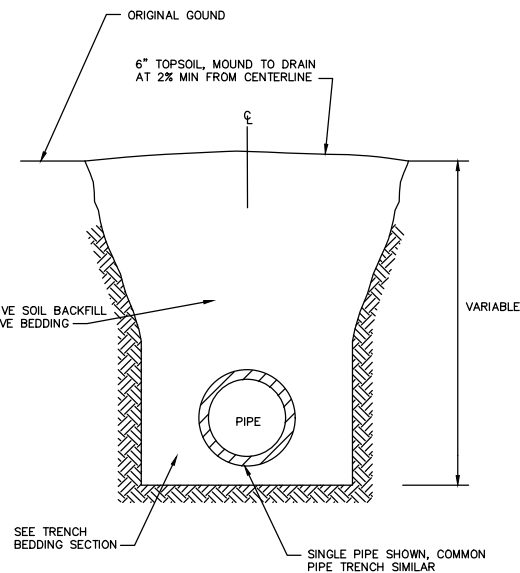
- NOTE:
1. CONTRACTOR SHALL CONSTRUCT A 1% CROWN WITH THE PEAK CENTERED OVER THE CENTERLINE OF THE EXCAVATION.

DETAIL A - STRUCTURAL TRENCH SECTION
NOT TO SCALE

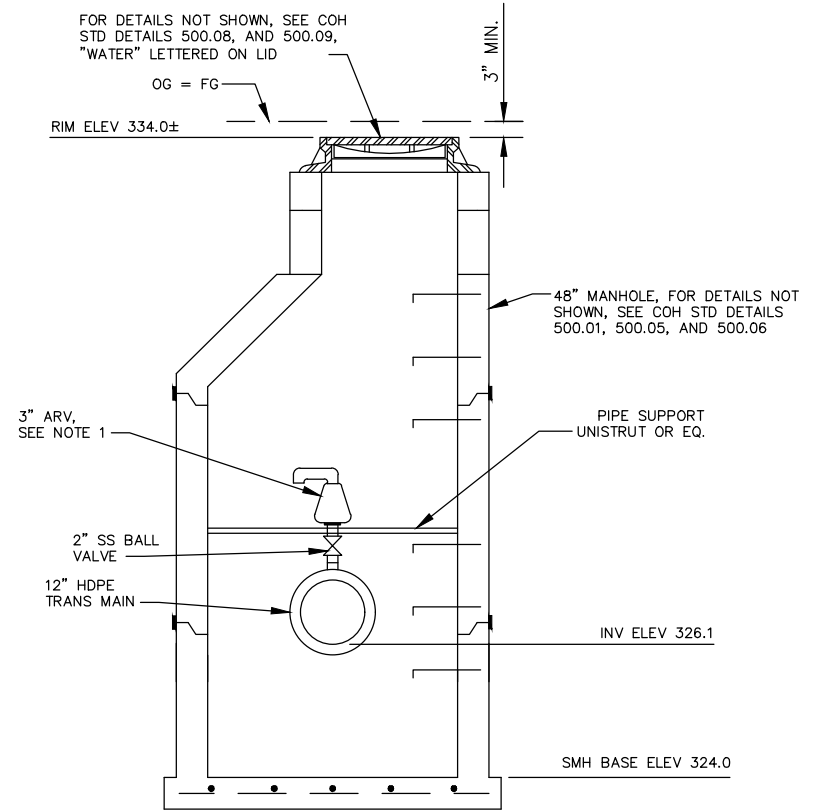


- NOTES:
1. TRENCH BACKFILL MATERIAL PLACED AND COMPACTED TO DEPTHS SHOWN IN THE DRAWINGS OR AS DETERMINED BY ENGINEER. COMPACT TRENCH BACKFILL TO A MINIMUM OF 95% MAXIMUM DENSITY.
 2. TRENCH WALL SLOPES WILL VARY WITH SOIL STRENGTH AND CHARACTER. SLOPES SHALL CONFORM TO OSHA SAFETY STANDARDS.
 3. BACKFILL SHALL BE FREE OF CLAYS AND ORGANIC MATERIALS.
 4. WHEN SPECIFIED IN CONTRACT DOCUMENTS, SEE STANDARD DETAIL 20-9 FOR INSULATION DETAILS.

TRENCH BEDDING SECTION
NOT TO SCALE

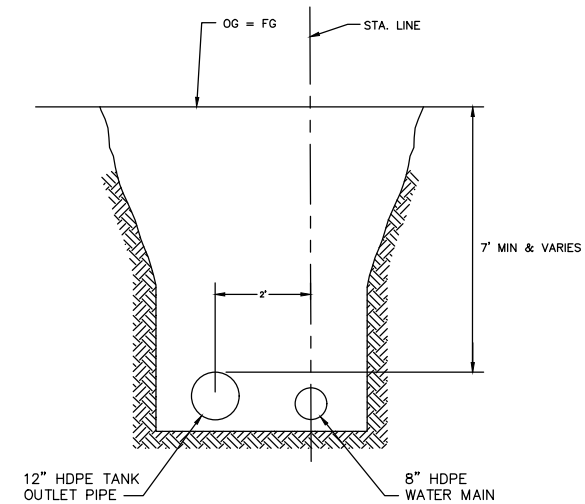


DETAIL B - NON-STRUCTURAL TRENCH SECTION
NOT TO SCALE



- NOTES:
1. 2" FLOMATIC AIR RELEASE VALVE, MINIAIR MODEL, PART 6504 OR EQUAL.
 2. DIRECT ARV DRAINAGE OUTLET AWAY FROM VALVES AND MH STAIRS.

ARV MANHOLE SECTION
NOT TO SCALE



COMMON WATER MAIN TRENCH DETAIL
NOT TO SCALE

- NOTES:
1. Before performing any excavations, call Alaska Digline at 811, (800) 478-3121, or (907) 278-3121.

CITY OF HOMER STANDARD DRAWINGS INDEX

200.03	STANDARD LOCATION FOR NEW UTILITIES
200.04	TYPICAL UTILITY LOCATIONS
200.05	TYPICAL WATER AND SEWER LOCATIONS
200.06	COMPACTION OF BACKFILL WITHIN RIGHT-OF-WAY
200.07	CLASS B AND C BEDDING
200.08	TRENCH BACKFILL
400.02	RESURFACING DETAIL TYPICAL GRAVEL SECTION
600.03	TYPICAL VALVE BOX
600.04	SINGLE PUMPER "L" BASE HYDRANT ASSEMBLY
600.05	HYDRANT GUARD POSTS
600.06	FIRE HYDRANT ACCESS PAD
600.10	GATE VALVE EXTENSION ROD

LEGEND & SYMBOLS

EDGE EXISTING GRAVEL	----
CUT CATCH LINE	-----
FILL CATCH LINE
CENTERLINE	-----+-----+-----+-----
UNDERGROUND ELECTRIC	----- UGE -----
OVERHEAD ELECTRIC	----- OHE -----
UNDERGROUND TELEPHONE	----- UGT -----
WATER MAIN	----- W -----
SANITARY SEWER	----- SS -----
CONTOURS MAJOR	----- 85 -----
CONTOURS MINOR	-----
TEST PIT LOCATION	⊕ TP-1
SIGN	⊥
PIPE CULVERT W/ END SECTION	
FIRE HYDRANT	
VALVE OR RISER	
EXISTING VALVE OR RISER	
PRESSURIZED SEWER SERVICE POLY VALVE	

ABBREVIATIONS

AKDOT&PF	ALASKA DEPT. OF TRANSPORTATION & PUBLIC FACILITIES
ARV	AIR RELEASE VALVE
APDES	ALASKA POLLUTION DISCHARGE ELIMINATION SYSTEM
Δ	DELTA / CENTRAL ANGLE OF CURVE
BP	BEGIN PROJECT
C/L	CENTERLINE
CMP	CORREGATED METAL PIPE
CO	CONTRACTING OFFICER
COH	CITY OF HOMER
CY	CUBIC YARD
DIA	DIAMETER
DIST	DISTANCE
E	EASTING
EL	ELEVATION
ELEV	ELEVATION
EP	END PROJECT
ESMT	EASEMENT
(E)	EXISTING
FL	FLANGE
FT	FOOT
GV	GATE VALVE
HDPE	HIGH-DENSITY POLYETHYLENE
IN	INCH
INV	INVERT
L	LENGTH OF CURVE
LF	LINEAR FOOT
LT	LEFT
MIN	MINIMUM
MAX	MAXIMUM
MJ	MECHANICAL JOINT
MPH	MILES PER HOUR
MSF	1000 SQUARE FEET
MUTCD	MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES
N	NORTHING
OHE	OVERHEAD ELECTRIC
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PVC	POINT OF VERTICAL CURVATURE
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY
PT	POINT OF TANGENCY
R	RADIUS
RT	RIGHT
R/W	RIGHT-OF-WAY
SEC	SECTION
SI	STREET INTERSECTION
SF	SQUARE FOOT
SMH	SEWER MANHOLE
S.S.	SANITARY SEWER
SS	STAINLESS STEEL
STA.	STATION
STD	STANDARD
SY	SQUARE YARD
TRANS	TRANSMISSION
UGE	UNDERGROUND ELECTRIC
UGT	UNDERGROUND TELEPHONE
UTIL	UTILITY
TYP.	TYPICAL
W	WATER MAIN OR SERVICE

CONSTRUCTION NOTES

- CONTRACTOR SHALL COMPLETE CONSTRUCTION IN ACCORDANCE WITH THE CITY OF HOMER STANDARD SPECIFICATIONS 2011 EDITION INCLUDING ITEMS. DRAWINGS, TECHNICAL SPECIFICATIONS, AND SPECIAL PROVISIONS TAKE PRECEDENCE OVER THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL ADHERE TO ALL REQUIREMENTS CONTAINED IN LOCAL, STATE AND FEDERAL PERMITS OBTAINED BY THE CITY FOR CONSTRUCTION OF THIS PROJECT. COPIES OF THE PERMITS SHALL BE MAINTAINED AT THE JOB SITE.
- CONTRACTOR SHALL MAINTAIN "REDLINE" RECORD DRAWINGS ON A CLEAN SET OF CONSTRUCTION DRAWINGS. THE CONTRACTOR SHALL MAINTAIN THE "REDLINES" CURRENT ON A DAILY BASIS WHICH SHALL BE AVAILABLE TO THE ENGINEER FOR INSPECTION ON THE JOB SITE. CONTRACTOR SHALL RECORD SURVEY NOTES FOR SUBMITTAL WITH RECORD DRAWINGS, INCLUDING HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD.
- ALL IMPORTED MATERIAL SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY AS DETERMINED BY AASHTO T 180.
- LOCATIONS DEPICTED FOR THE UTILITIES AND OTHER EXISTING FEATURES ARE APPROXIMATE. SOME UTILITIES HAVE BEEN LOCATED FROM RECORD DRAWINGS AND UTILITY COMPANY LOCATES. CONTRACTOR SHALL LOCATE AND VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.
- UNDERGROUND ELECTRICAL AND TELECOMMUNICATIONS LINES OCCUR WITHIN THE PROJECT AREA: CONTRACTOR SHALL COORDINATE WORK ACCORDINGLY. ALL WORK IN CLOSE PROXIMITY TO EXISTING UNDERGROUND LINES SHALL COMPLY WITH THE APPLICABLE FEDERAL, STATE AND LOCAL STATUTES, CODES AND GUIDELINES, AND THE ELECTRICAL FACILITY CLEARANCE REQUIREMENTS OF THE GOVERNING UTILITY. CONTRACTOR SHALL HAND DIG WITHIN TWO FEET OF BURIED ELECTRICAL CABLE.
- THIS PROJECT IS REQUIRED TO BE CONSTRUCTED IN ACCORDANCE WITH THE APDES GENERAL CONSTRUCTION PERMIT FOR STORM WATER POLLUTION. THE CONTRACTOR SHALL ADHERE TO THE REQUIREMENTS OF THE PERMIT.
- ALL DISTANCES SHOWN ARE HORIZONTAL GROUND DISTANCES IN U.S. SURVEY FEET.
- THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE CITY ENGINEER FOR APPROVAL AT LEAST TWO WEEKS PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
- LIMITS OF EXCAVATION AND BACKFILL SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
- CONTRACTOR SHALL SEED ALL DISTURBED AREAS WHERE OTHER SURFACE IS NOT SPECIFIED.
- IF CONTAMINATED SOIL, GROUNDWATER, OR FREE-PRODUCT ARE ENCOUNTERED, THE CONSTRUCTION CONTRACTOR SHALL IMMEDIATELY CONTACT THE ENGINEER WHO WILL IMMEDIATELY CONTACT THE ADEC PREVENTION AND EMERGENCY RESPONSE (PERP) OFFICE STAFF AT (907) 465-5340 / FAX (907) 465-2237 IN ACCORDANCE WITH SPILL REPORTING REQUIREMENTS UNDER 18 AAC 75.300, AND COORDINATE MANAGEMENT OF ALL CONTAMINATED MEDIA WITH EMERGENCY RESPONSE PERSONNEL.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTATION THAT DEMONSTRATES THE PIPE MATERIAL IS CERTIFIED TO CONFORM TO ANSI/NSF STANDARD 61.
- THE CONTRACTOR SHALL REDUCE THE CONCENTRATION OF RESIDUAL CHLORINE IN THE FLUSHED WATER BY NEUTRALIZATION BEFORE THE WATER IS RELEASED OVERLAND OR TO ANY CREEKS, STREAMS, AND TEMPORARY OR PERMANENT DRAINAGE SWALES OR DITCHES. THE RESIDUAL CHLORINE LEVEL BEFORE RELEASE SHALL NOT EXCEED 19 PPB (PARTS PER BILLION). THE PROCEDURE USED TO ADD AND MIX THE NEUTRALIZING AGENT INTO THE FLUSHED WATER SHALL ACHIEVE A THOROUGHLY AND EVENLY MIXED SOLUTION. MEASUREMENTS OF RESIDUAL CHLORINE SHALL BE TAKEN AT THE POINT OF RELEASE FROM THE NEWLY INSTALLED WATER SYSTEM INTO THE NEUTRALIZING CHAMBER AND AT THE POINT OF RELEASE FROM THE CONTRACTOR'S CONTROL AT 10 MINUTE INTERVALS OR MORE FREQUENTLY AS DIRECTED BY THE ENGINEER. ACCEPTABLE AGENTS FOR NEUTRALIZATION INCLUDE:
 - CALCIUM THIOSULFATE,
 - ASCORBIC ACID, OR
 - SODIUM ASCORBATE.

THE CONTRACTOR SHALL FOLLOW THE MANUFACTURER'S INSTRUCTIONS ON THE AMOUNTS OF AGENT ADDED TO THE FLUSHED WATER BASED ON THE RESIDUAL CHLORINE CONCENTRATION MEASURED AT THE POINT OF RELEASE FROM THE NEWLY INSTALLED WATER SYSTEM INTO THE NEUTRALIZING CHAMBER.
- THE CONTRACTOR SHALL PROVIDE DOCUMENTATION THAT DEMONSTRATES THE CHEMICAL ADDITIVE FOR DISINFECTION IS CERTIFIED TO CONFORM TO ANSI/NSF STANDARD 60.
- DISCHARGES OF EFFLUENT FROM HYDROSTATIC TESTING AND DISINFECTION SHALL CONFORM SECTIONS 4.0 CONTROL MEASURES, 5.1 LAND DISPOSAL DISCHARGES OF HYDROSTATIC TESTING, AND 6.0 REPORTING AND RECORDKEEPING OF THE ALASKA POLLUTANT DISCHARGE ELIMINATION SYSTEM "GENERAL PERMIT FOR HYDROSTATIC AND AQUIFER PUMP TESTING" PERMIT NUMBER AKG003000.

NOTES:

- Before performing any excavations, call Alaska Digline at 811, (800) 478-3121, or (907) 278-3121.



SOUTH SOPE DRIVE, WEST TASMANIA COURT, AND EAST TASMANIA COURT WATER MAIN EXTENSION

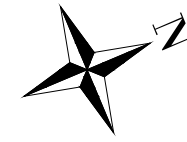
CONSTRUCTION NOTES

BISHOP ENGINEERING, LLC
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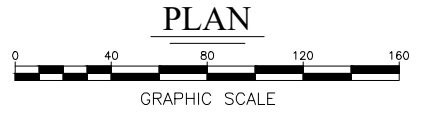
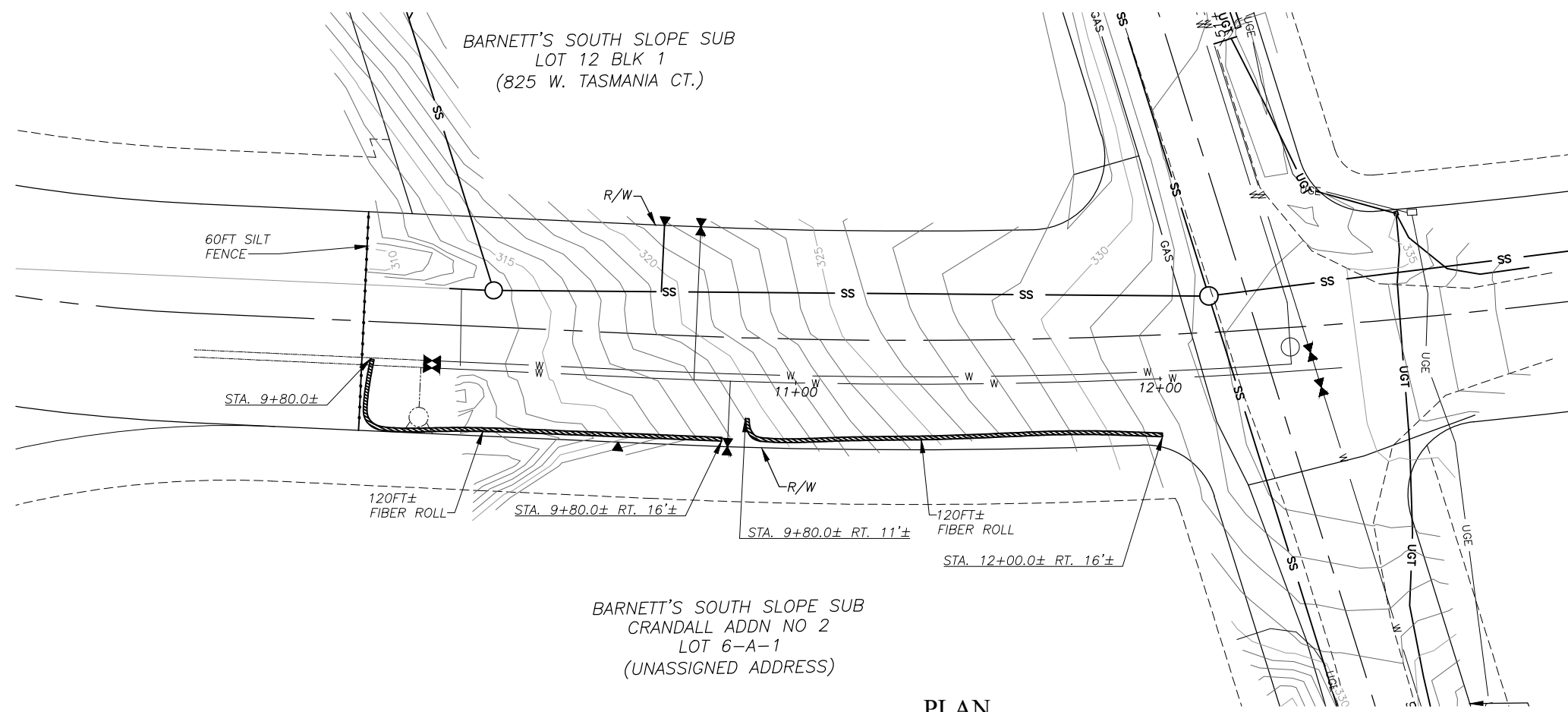
DATE: 7/16/2021
CHK'D: JSB
SCALE: AS NOTED
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SHEET NO.:

C-5



**SOUTH SOPE DRIVE, WEST TASMANIA COURT, AND
EAST TASMANIA COURT WATER MAIN EXTENSION
EROSION CONTROL PLAN NO. 1**



NOTES:

1. Before performing any excavations, call Alaska Digline at 811, (800) 478-3121, or (907) 278-3121.

BISHOP ENGINEERING, LLC
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C-6



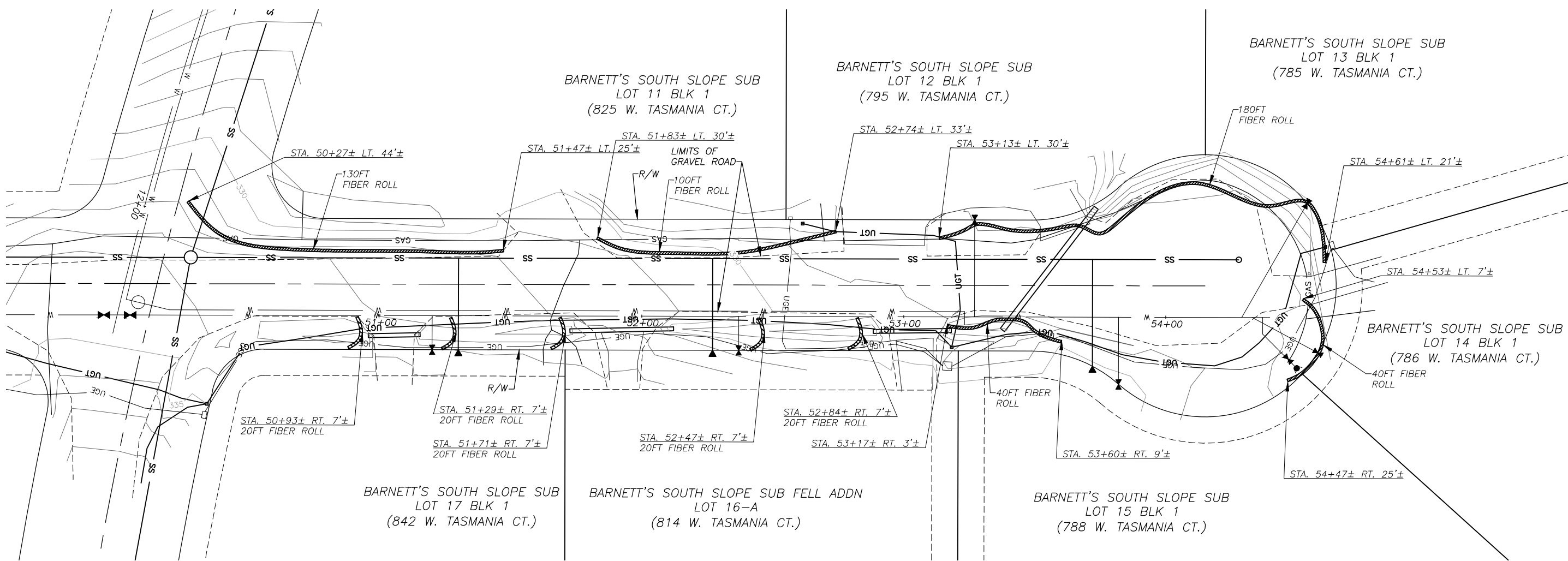
**SOUTH SOPE DRIVE, WEST TASMANIA COURT, AND
EAST TASMANIA COURT WATER MAIN EXTENSION**
EROSION CONTROL PLAN NO. 2

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
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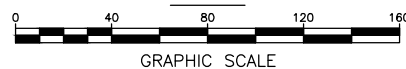
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C-7

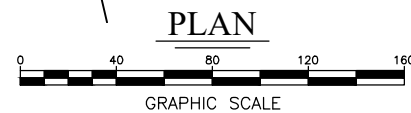
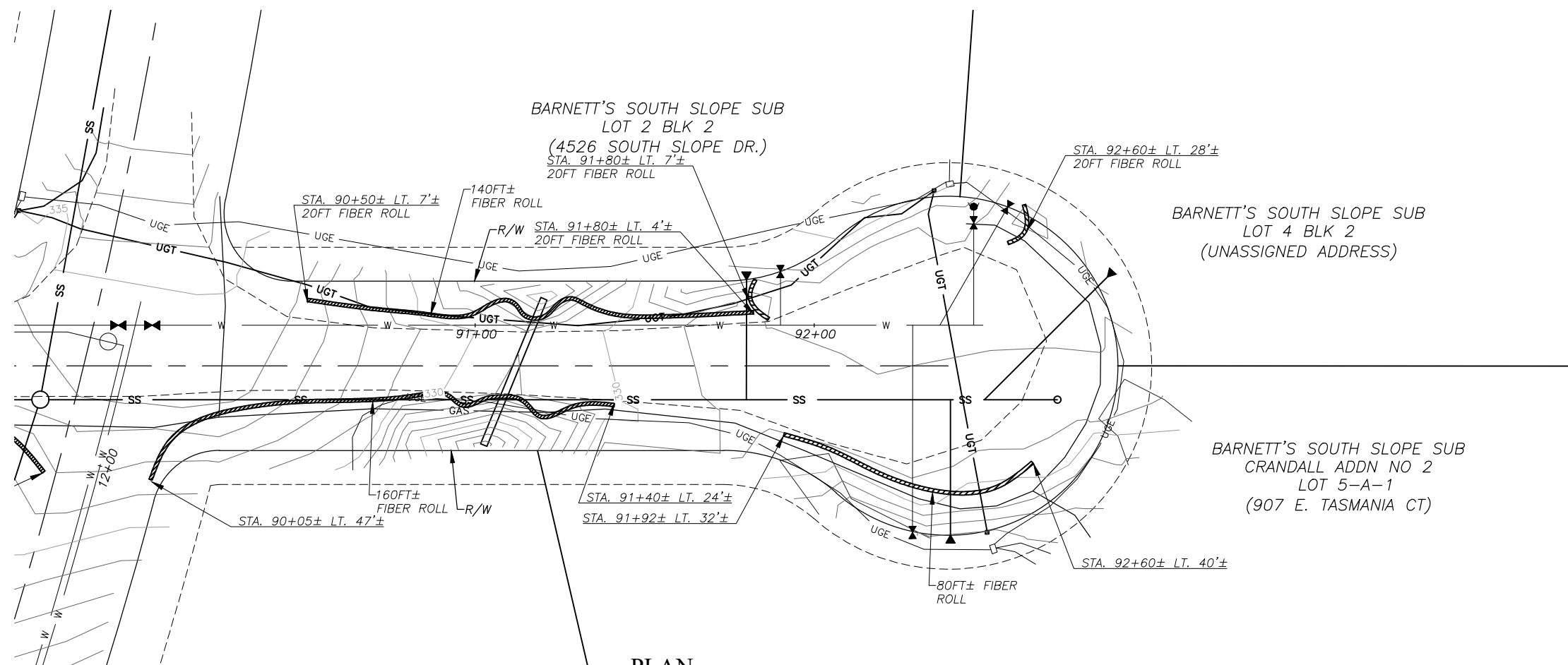
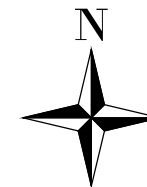


PLAN



NOTES:

1. Before performing any excavations, call Alaska Digline at 811, (800) 478-3121, or (907) 278-3121.



**SOUTH SOPE DRIVE, WEST TASMANIA COURT, AND
EAST TASMANIA COURT WATER MAIN EXTENSION
EROSION CONTROL PLAN NO. 3**

BISHOP ENGINEERING, LLC
PO BOX 2501 HOMER, ALASKA 99603
(907) 299-7609

DATE: 7/16/2021
CHK'D: JSB
SCALE: AS NOTED
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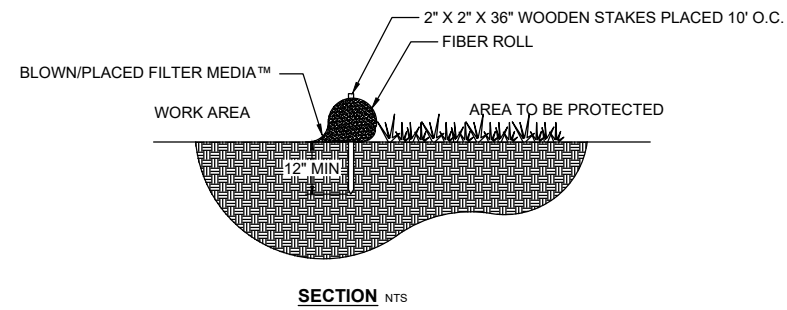
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NOTES:

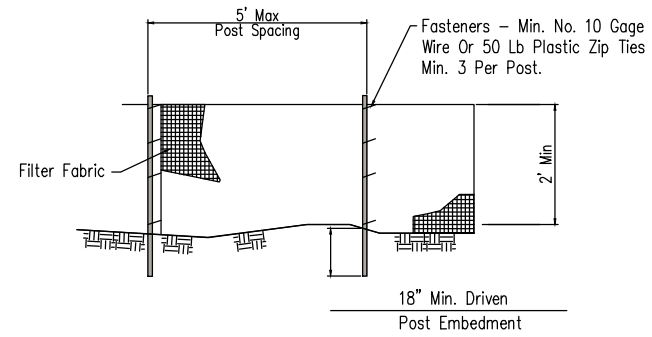
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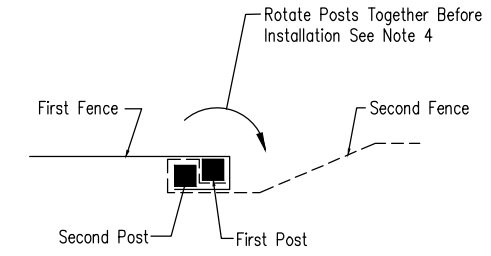
SOUTH SOPE DRIVE, WEST TASMANIA COURT, AND EAST TASMANIA COURT WATER MAIN EXTENSION
EROSION CONTROL DETAILS



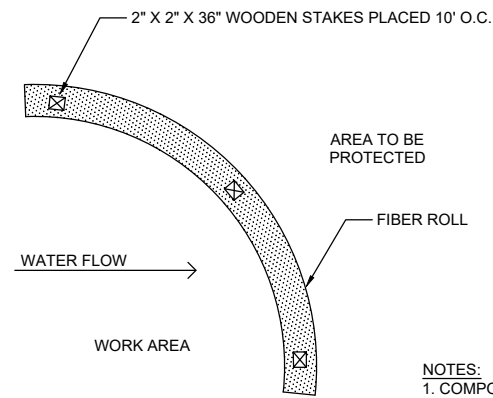
SECTION NTS



ELEVATION

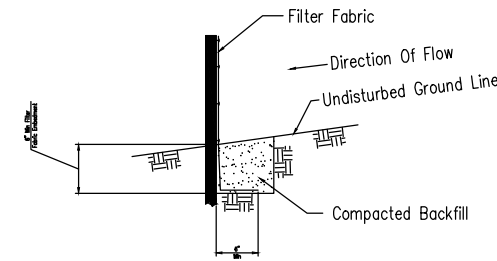


SPLICE DETAIL-PLAN VIEW



PLAN NTS

NOTES:
1. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.



FABRIC ANCHOR DETAIL

- NOTES:**
1. Temporary silt fence shall be installed prior to any grading work in the area to be protected. Fence shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
 2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 50 for woven.
 3. Fence posts shall be either wood post with a minimum cross-sectional area of 1.5" X 1.5" or a standard steel post.
 4. When splices are necessary make splice at post according to splice detail. Place the end post of the second fence inside the end post of the first fence. Rotate both posts together at least 180 degrees to create a tight seal with the fabric material. Cut the fabric near the bottom of the posts to accommodate the 6 inch flap. Then drive both posts and bury the flap. Compact backfill well.

FIBER ROLL SEDIMENT CONTROL
NTS

SIILT FENCE PROJECT BORDER
NTS

NOTES:

1. Before performing any excavations, call Alaska Digline at 811, (800) 478-3121, or (907) 278-3121.

BISHOP ENGINEERING, LLC
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(907) 299-7609

DATE: 7/16/2021
CHK'D: JSB
SCALE: AS NOTED
PROJ. NO.: 2021005

SHEET NO.: