

01/21 MILES

UNOFFICIAL
GRAPHIC SCALE

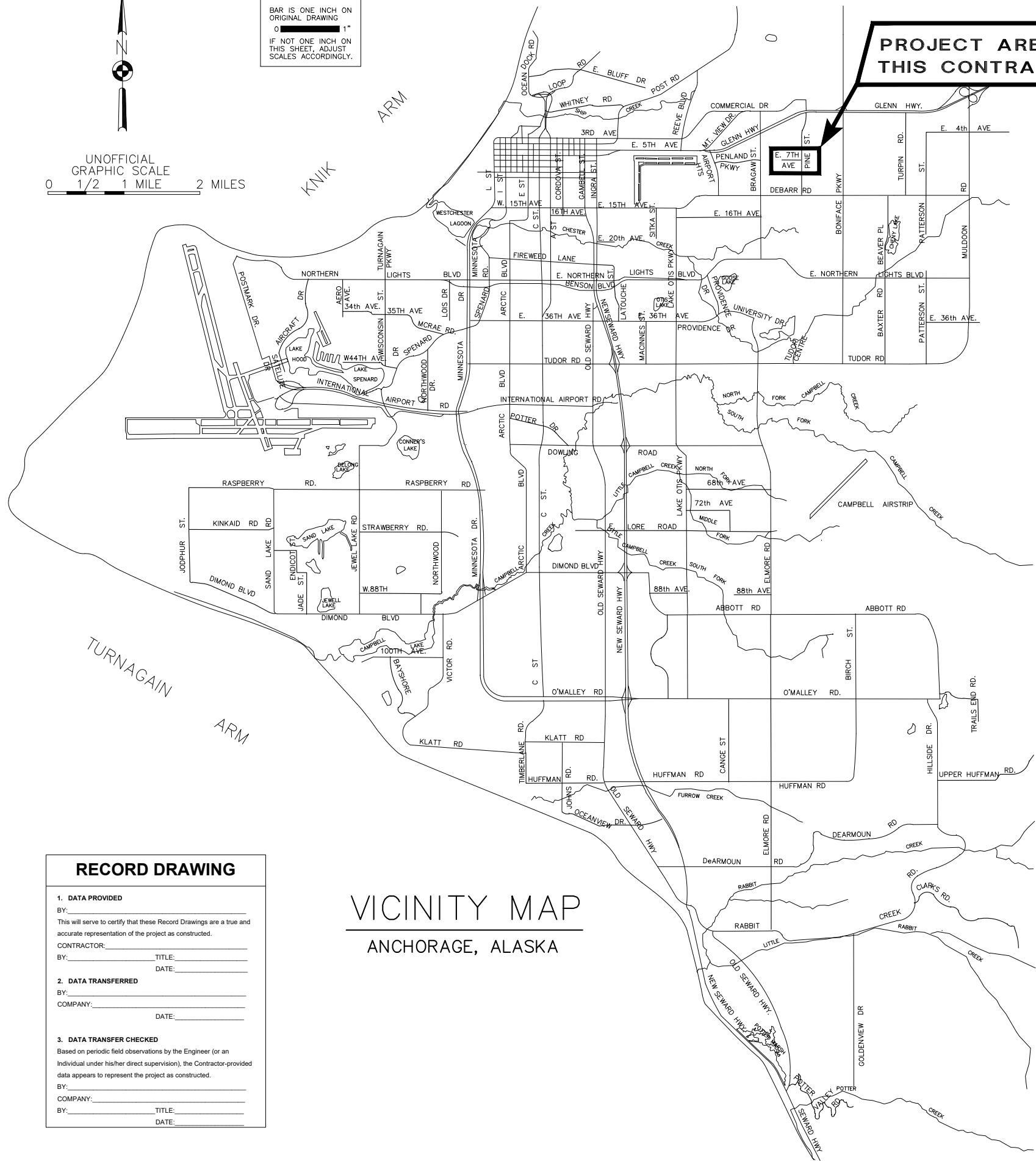
01/21 MILES

VERIFY SCALES

BAR IS ONE INCH ON
ORIGINAL DRAWING

01"

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



RECORD DRAWING

1. DATA PROVIDED

BY: _____

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: _____

COMPANY: _____

DATE: _____

3. DATA TRANSFER CHECKED

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.

BY: _____

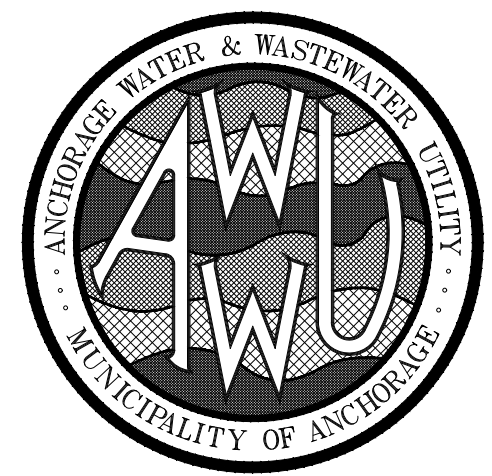
COMPANY: _____

BY: _____ TITLE: _____

DATE: _____

VICINITY MAP

ANCHORAGE, ALASKA



MUNICIPALITY OF ANCHORAGE

WATER & WASTEWATER UTILITY

E. 7TH LANE TO PINE WATER REHAB.

AWWU PROJECT ID. NO. WW.00016

05/26/2026

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PLOT DATE: _____

PLOT SCALE: _____

ACAD FILE: _____

ABBREVIATIONS

ACP = ASBESTOS CONCRETE PIPE
ACF = AC PAVEMENT
APPROX. = APPROXIMATE
B = BORING
BM = BENCH MARK
B.O.P. = BOTTOM OF PIPE
C&G = CURB AND GUTTER
CI = CAST IRON
CL = CENTERLINE
CONT = CONTINUOUS
CMP = CORRUGATED METAL PIPE
C.O. = CLEAN OUT
CPEP = CORRUGATED POLYETHYLENE PIPE
DIA = DIAMETER
DIP = DUCTILE IRON PIPE
D&R = DISCONNECT & RECONNECT
E = ELECTRICAL, EAST, EASTING
ELEV = ELEVATION
EP = EDGE OF PAVEMENT
ESMT = EASEMENT
EXC = EXCAVATION
F.G. = FINISHED GRADE (ELEV.)
FH = FIRE HYDRANT
F.L. = FLOW LINE (ELEV.)
GAAB = GREATER ANCHORAGE AREA BOROUGH
GB = GRADE BREAK
H, HORIZ = HORIZONTAL
HDPE = HIGH DENSITY POLYETHYLENE
HT. = HEIGHT
IE = INVERT ELEV.
INV. = INVERT
L = LENGTH
LF = LINEAR FEET
LONG. = LONGITUDINAL
LAT. = LATITUDE
LT. = LEFT
MAX = MAXIMUM
M.A.S.S. = MOA STANDARD SPECIFICATIONS
ME = MATCH EXISTING
MH = MANHOLE
MIN = MINIMUM
MOA = MUNICIPALITY OF ANCHORAGE
N = NORTHING, NORTH
NFS = NON-FROST SUSCEPTIBLE
NGS = NATIONAL GEODETIC SURVEY
O.C. = ON CENTER
O.C.E.W. = ON CENTER EACH WAY
OG = ORIGINAL GROUND (ELEV.)
OSHA = OCCUPATIONAL SAFETY & HEALTH ADMINISTRATION
P.C. = POINT OF CURVATURE
PCC = PORTLAND CEMENT CONCRETE
P.I. = POINT OF INTERSECTION
PL = PROPERTY LINE
PP = POWER POLE
P.T. = POINT OF TANGENCY
R = RADIUS (LENGTH)
RC = REINFORCED CONCRETE
R.P. = RADIUS POINT
RT. = RIGHT
S = SEWER, SOUTH
SD = STORM DRAIN
S.I. = STREET INTERSECTION
SHLDR = SHOULDER
S.S. = STAINLESS STEEL
SS = SANITARY SEWER
STA = STATION
STD = STANDARD/STANDARD DETAIL
T = TANGENT (LENGTH)
TBC = TOP BACK OF CURB
TBM = TEMPORARY BENCHMARK
TCE = TEMPORARY CONSTRUCTION EASEMENT
TCP = TRAFFIC CONTROL PLAN, TEMPORARY CONSTRUCTION PERMIT
TYP = TYPICAL
U/G = UNDER GROUND
UON = UNLESS OTHERWISE NOTED
V, VERT = VERTICAL
W = WATER, WEST
WT = WATER TABLE
> = GREATER THAN
< = LESS THAN
≥ = GREATER THAN OR EQUAL TO
≤ = LESS THAN OR EQUAL TO



CALL BEFORE YOU DIG

The Contractor shall notify all area utility companies prior to commencement of excavation. The following is a partial list:

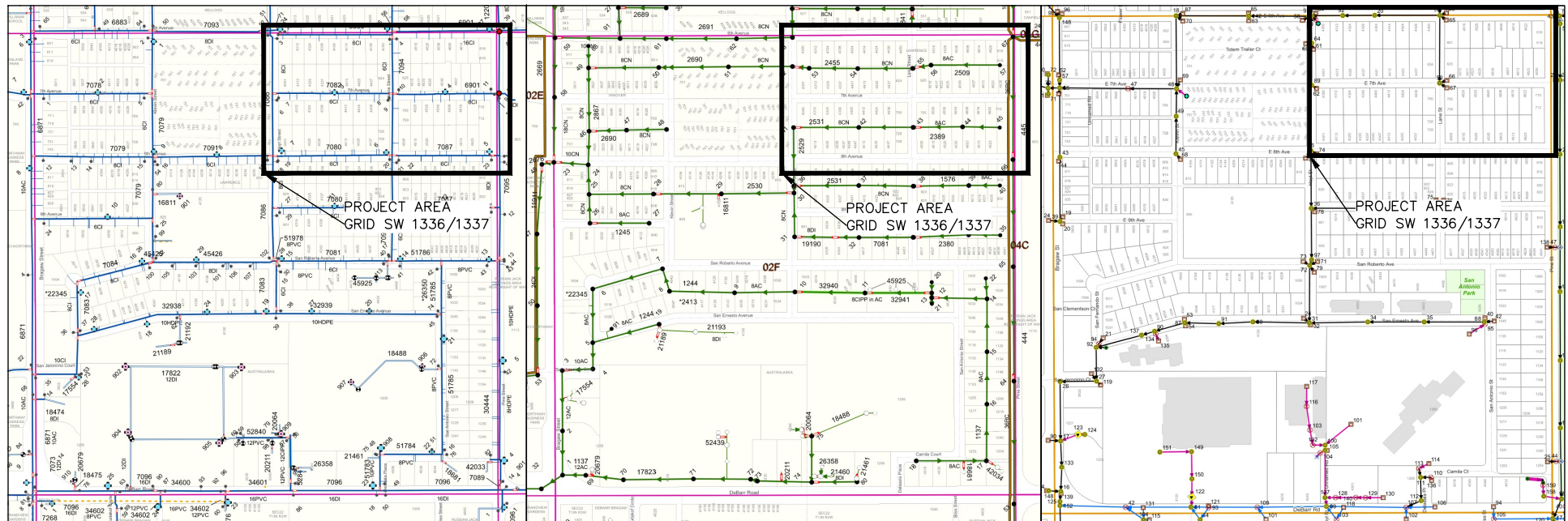
LOCATE CALL CENTER OF ALASKA 278-3121
(includes ATU, AWWU, CEA, ENG, Butler Aviation/Tesoro, Prime Cable, MLP, Traffic Signals, MOA Storm/Streets)
STATE STORM/STREET LIGHTS 333-2411
MILITARY PETROLEUM LINES

LEGEND

EXISTING (E)	PROPOSED (P)	PLAN LEGEND
W	SD	WATER LINE
S		SANITARY SEWER LINE
SD		UNDERGROUND STORM DRAIN LINE
G		UNDERGROUND GAS LINE
T		UNDERGROUND TELEPHONE LINE
TV		UNDERGROUND CABLE TV LINE
C		UNDERGROUND ELECTRIC LINE
OH		OVERHEAD UTILITY LINE
X-X-X	X-X-X	CHAIN LINK FENCE
X-X-X	X-X-X	WOOD FENCE
X-X-X	X-X-X	GUARD RAIL
X-X-X	X-X-X	VEGETATION & BRUSH LINE
X-X-X	X-X-X	SANITARY SEWER MANHOLE
X-X-X	X-X-X	WATER VALVE BOX
X-X-X	X-X-X	WATER KEY BOX
X-X-X	X-X-X	FIRE HYDRANT
X-X-X	X-X-X	WATER MAIN CAP
X-X-X	X-X-X	STORM DRAIN MANHOLE
X-X-X	X-X-X	CATCH BASIN MANHOLE
X-X-X	X-X-X	CATCH BASIN
X-X-X	X-X-X	LIGHT POLE
X-X-X	X-X-X	UTILITY POLE
X-X-X	X-X-X	UNDERGROUND ELECTRIC PEDESTAL
X-X-X	X-X-X	UNDERGROUND TELEPHONE PEDESTAL
X-X-X	X-X-X	UNDERGROUND CABLE TV PEDESTAL
X-X-X	X-X-X	STREET SIGN
X-X-X	X-X-X	BOLLARD OR MISCELLANEOUS POST
X-X-X	X-X-X	MAILBOX
X-X-X	X-X-X	LIBRARY BOX
X-X-X	X-X-X	WATER FOUNTAIN
X-X-X	X-X-X	BORE
X-X-X	X-X-X	DECIDUOUS TREE (BUSH)/SPRUCE
X-X-X	X-X-X	RETAINING WALL
X-X-X	X-X-X	STONE RETAINING WALL
X-X-X	X-X-X	ASPHALT
X-X-X	X-X-X	CONCRETE
X-X-X	X-X-X	HOUSE OR STRUCTURE
X-X-X	X-X-X	LANDSCAPING
X-X-X	X-X-X	PROFILE LEGEND
X-X-X	X-X-X	CENTER EXISTING GROUND
X-X-X	X-X-X	LEFT EXISTING GROUND
X-X-X	X-X-X	RIGHT EXISTING GROUND
X-X-X	X-X-X	NATURAL GAS LINE CROSSING
X-X-X	X-X-X	TELEPHONE LINE CROSSING
X-X-X	X-X-X	CABLE TV LINE CROSSING
X-X-X	X-X-X	ELECTRIC LINE CROSSING
X-X-X	X-X-X	OVERHEAD UTILITY LINE CROSSING
X-X-X	X-X-X	SEWER & STORM MANHOLE
X-X-X	X-X-X	WATER, SEWER, & STORM PIPE

SOILS LEGEND

GW	Well-Graded Gravel; Well-Graded Gravel with Sand
GP	Poorly Graded Gravel; Poorly Graded Gravel with Sand
GM	Silty Gravel; Silty Gravel with Sand
GC	Clayey Gravel; Clayey Gravel with Sand
SW	Well-Graded Sand; Well-Graded Sand with Gravel
SP	Poorly Graded Sand; Poorly Graded Sand with Gravel
SM	Silty Sand; Silty Sand with Gravel
SC	Clayey Sand; Clayey Sand with Gravel
ML	Silt; Silt with Sand or Gravel; Sandy or Gravelly Silt
CL	Lean Clay; Lean Clay with Sand or Gravel; Sandy or Gravelly Lean Clay
OL	Organic Silt or Clay; Organic Silt or Clay with Sand or Gravel; Sandy or Gravelly Organic Silt or Clay
MH	Elastic Silt; Elastic Silt with Sand or Gravel; Sandy or Gravelly Elastic Silt
CH	Fat Clay; Fat Clay with Sand or Gravel; Sandy or Gravelly Fat Clay
OH	Organic Silt or Clay; Organic Silt or Clay with Sand or Gravel; Sandy or Gravelly Organic Silt or Clay
PT	Peat or other highly organic soils (see ASTM D4427)
	Water Level Reading and date taken



WATER KEY MAP (NTS)

SEWER KEY MAP (NTS)

STORM KEY MAP (NTS)

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE INSTALLED AS SPECIFIED IN THE MOST CURRENT EDITION OF THE MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS FOR STREETS-DRAINAGE-UTILITIES-PARKS (MASS), THE AWWU DESIGN AND CONSTRUCTION PRACTICES MANUAL, AND THE SPECIAL PROVISIONS.
- MAINTAIN A MINIMUM OF TEN FEET (10') OF HORIZONTAL SEPARATION BETWEEN THE OUTSIDE OF PIPES FOR WATER TO SANITARY SEWER OR STORM DRAIN. WITH THE INSTALLATION OF FOUR INCHES (4") OF INSULATION BETWEEN THE PIPES, THE MINIMUM VERTICAL SEPARATION IS EIGHTEEN INCHES (18"). INSULATION MAY BE OMITTED WHEN THE VERTICAL SEPARATION IS GREATER THAN THIRTY-SIX INCHES (36"). WHERE STORM OR SEWER CROSS A WATER LINE, THE JOINTS OF ALL PIPES ARE TO HAVE A MINIMUM SEPARATION OF NINE FEET (9') FROM THE CROSSING.
- ALL WATER/SEWER PIPE INSULATION SHALL BE RIGID BOARD, HIGH DENSITY EXTRUDED POLYSTYRENE, MIN. 60 P.S.I., FOR UNDERGROUND INSTALLATIONS EQUIVALENT TO R-18 PER FOUR (4) INCH THICK INSULATION.
- CONTRACTOR SHALL VERIFY AND RECORD THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES INSTALLED OR ENCOUNTERED IN THE FIELD AND RECORD ANY CHANGES ON THE CONTRACTOR RECORD DRAWINGS. AS PART OF CONTRACTOR RECORD DRAWINGS, CONTRACTOR IS REQUIRED TO COMPLETE AWWU WATER SERVICE CONNECTION PERMITS.
- THE CONTRACTOR SHALL RESTORE ALL DISTURBED PROPERTY, INCLUDING DRAINAGE SWALES, DISTURBED BY CONTRACT ACTIVITIES TO PRECONSTRUCTION CONDITION OR AS INDICATED ON THE PLANS.
- IN CASE OF CONFLICT BETWEEN STATIONING OR DIMENSIONED LOCATION OF PIPE OR FITTINGS, USE DIMENSIONED LOCATIONS.
- THE CONTRACTOR SHALL RECORD SURVEY NOTES IN A FORMAT SIMILAR TO THAT SHOWN IN MASS DIVISION 65 FOR SUBMITTAL WITH RECORD DRAWING PLANS PRIOR TO CONTRACT FINAL PAYMENT.
- CONTRACTOR MUST USE FIELD INSTALLED RESTRAINED FITTINGS ON ALL MECHANICAL JOINTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR SWPPP, EROSION, AND SEDIMENT CONTROLS AS NECESSARY TO COMPLY WITH FEDERAL, STATE, AND MUNICIPAL LAWS THAT PROHIBIT UN-PERMITTED DISCHARGE OF POLLUTANTS, INCLUDING SEDIMENTS, THAT ARE A RESULT OF EROSION AND OTHER CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL CONDUCT ALL WORK SO SEDIMENT IS NOT TRANSPORTED ONTO THE ROADWAY OR ADJACENT PROPERTY. AT A MINIMUM, THE CONTRACTOR SHALL SWEEP UP ANY SEDIMENT TRACKED ONTO PAVED SURFACES IN PUBLIC RIGHT-OF-WAY WITHIN 24 HOURS OF THE TRACKING TO MINIMIZE THE WASH-OFF OF SEDIMENT INTO THE STORM DRAINS OR WATERWAYS.
- TOPOGRAPHIC SURVEY OF THE PROJECT AREA WAS PERFORMED. HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUCTING ANY ADDITIONAL PRE-CONSTRUCTION SURVEY NECESSARY TO ENSURE THAT THE REPLACED ASPHALT, CURB & GUTTER, DRIVEWAYS, AND EXISTING DRAINAGE ARE RETURNED TO THEIR ORIGINAL OR BETTER CONDITION AND THAT THEY DRAIN PROPERLY.
- UTILITY LOCATIONS SHOWN ON THESE DRAWINGS ARE APPROXIMATE AND NOT NECESSARILY COMPLETE. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION, AND SHALL CALL FOR UTILITY LOCATES A MIN. OF TWO (2) DAYS (EXCLUDING NON-WORKING DAYS) PRIOR TO COMMENCEMENT OF ANY EXCAVATION. SIZE AND TYPE ARE FROM FIELD SURVEY OR RECORD INFORMATION AND NOT FIELD VERIFIED.

WATER NOTES

- HYDRANTS WILL BE ADJUSTED TO FINAL GRADE BY AWWU O&M DIVISION. THE CONTRACTOR IS TO PROVIDE WRITTEN NOTICE TO THE MASS ENGINEER AND THE AWWU INSPECTOR A MINIMUM OF SEVEN (7) DAYS PRIOR TO THE NEED FOR FINAL HYDRANT ADJUSTMENT. THE WRITTEN NOTICE IS TO CONTAIN AT A MINIMUM, THE MANUFACTURER, MODEL NUMBER OF THE HYDRANT AND VERTICAL ADJUSTMENT NEEDED IN SIX INCH (6") INCREMENTS.
- AWWU, ANCHORAGE FIRE DEPARTMENT AND WATER CUSTOMERS SHALL BE NOTIFIED SEVENTY-TWO (72) HOURS BEFORE WATER SERVICE INTERRUPTIONS AND BE PROVIDED TEMPORARY WATER IN ACCORDANCE WITH MASS. SEE SHEET 14 FOR ADDITIONAL REQUIREMENTS.
- UNLESS OTHERWISE LABELED ON THE PLANS, ALL PIPE AND FITTINGS ARE TO BE RESTRAINED. REGARDLESS OF NOTES DELINEATING RESTRAINT, ALL PIPES EIGHT (8') FEET IN LENGTH AND LESS ARE TO BE RESTRAINED.
- ALL WATER MAINS SHALL BE (POLYVINYL CHLORIDE) PVC C-900, RJIB DR-18, UNLESS OTHERWISE NOTED.
- THRUST RESTRAINT SHALL BE PROVIDED BY USE OF MEG-A-LUG FITTINGS (OR EQUAL) ON ALL MECHANICAL JOINTS. THE USE OF THRUST BLOCKS WILL NOT BE ALLOWED FOR DUCTILE IRON PIPE, AND ARE NOT REQUIRED FOR PVC PIPE (DIP FITTINGS). BUT ARE REQUIRED FOR FIRE HYDRANT LEGS PER MASS STANDARD DETAIL 60-10.
- WATER SERVICES SHALL BE 1" TYPE-K COATED COPPER UNLESS OTHERWISE NOTED ON PLANS.
- THE CONTRACTOR SHALL PROVIDE ALL SETUP AND TEAR DOWN REQUIRED TO OPEN BORE FLUSH NEWLY INSTALLED WATER PIPE. AWWU WILL PROVIDE FLUSH WATER FROM THE AWWU WATER DISTRIBUTION SYSTEM. THE CONTRACTOR MUST REQUEST WATER AT LEAST 48 HOURS PRIOR TO OPEN BORE FLUSHING. OPEN BORE FLUSHING MUST TAKE PLACE PRIOR TO INSTALLATION OF WATER SERVICES.
- ALL WATER MAIN AND SERVICE BEDDING IS TO BE CLASS 'E' AND ALL BACKFILL COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY. WHERE GROUNDWATER CONDITIONS INHIBIT THE PROPER COMPACTION OF CLASS 'E' BEDDING, THE CONTRACTOR IS AUTHORIZED TO SUBSTITUTE E-CHIP IN PLACE OF CLASS E BEDDING. WHEN E-CHIP IS UTILIZED, IT SHALL BE SEPARATED FROM SURROUNDING SOILS USING MASS 20.25 TYPE A GEOTEXTILE.
- ALL WATER MAINS AND SERVICES SHALL HAVE A MINIMUM OF 10 FEET OF BURY AT ALL POINTS, UNLESS OTHERWISE NOTED. PROVIDE 4" PIPE INSULATION PER MASS DETAIL 20-9 WHERE PIPE DEPTH IS LESS THAN 10'.
- MAXIMUM DEFLECTION OF PIPE PER JOINT SHALL NOT EXCEED 80% OF THE MANUFACTURERS RECOMMENDED DEFLECTION (4 DEGREES) FOR DIP. PVC PIPE SHALL NOT BE DEFLECTED AT PIPE TO PIPE JOINTS, BUT MAY BE DEFLECTED UP TO 80% OF THE MANUFACTURERS RECOMMENDED DEFLECTION LIMITS IN FITTINGS AND COUPLERS.
- CONTRACTOR TO REMOVE AND DISPOSE OF ALL FIRE HYDRANT ASSEMBLIES AND ALL OTHER WATERLINE APPURTENANCES IN THE WAY OF NEW CONSTRUCTION UNLESS OTHERWISE NOTED.
- CONTRACTOR TO VACUUM EXCAVATE WATER MAIN LOCATIONS AT REINFORCED CONCRETE (RC) SANITARY SEWER CROSSING A MIN. THREE (3) DAYS PRIOR TO PLANNED EXCAVATION TO VERIFY LOCATION & ELEVATIONS. IF LOCATION VARIES FROM PLAN CONTRACTOR IS TO NOTIFY ENGINEER IMMEDIATELY.

DEMOLITION NOTES

- CONTRACTOR SHALL MAINTAIN ONE (1) LANE AT ALL TIMES FOR INGRESS/EGRESS FROM HOYT STREET, LANE STREET, & PINE STREET TO RESIDENTS ON 6TH & 7TH AVENUE UNLESS OTHER ARRANGEMENTS ARE MADE WITH EFFECTED PROPERTY OWNERS AND ENGINEER, AND AS REQUIRED BY THE APPROVED TRAFFIC CONTROL PLAN.
- THE CONTRACTOR SHALL LIMIT ASPHALT REMOVAL TO ONE STREET AT A TIME (6TH, 7TH, OR PINE). ASPHALT REMOVAL MAY CONTINUE AFTER RESTORATION OF PREVIOUSLY DISTURBED R.O.W., & SHALL UTILIZE ONLY THE MINIMUM REMOVAL NECESSARY TO COMPLETE THE REQUIRED WORK, IN ORDER TO MINIMIZE TRAVEL DISRUPTIONS TO RESIDENTS.
- PROPERTY OWNERS SHALL BE PROVIDED ADVANCE NOTICE PRIOR TO THE IMPLEMENTATION OF ANY DRIVEWAY ACCESS RESTRICTIONS, AND UNDER NO CIRCUMSTANCES SHALL DRIVEWAY ACCESS BE INTERRUPTED FOR A DURATION EXCEEDING EIGHT (8) CONSECUTIVE HOURS.
- AREAS WITHIN THE CONSTRUCTION LIMITS ARE CALLED OUT WITH SPECIFIC RESTORATION REQUIREMENTS ON THE DRAWINGS. THE CONTRACTOR SHALL RESTORE ALL PROPERTY DISTURBED BY CONSTRUCTION ACTIVITIES TO PRE-CONSTRUCTION CONDITION OR BETTER IN ACCORDANCE WITH MASS, SPECIAL PROVISIONS, AND PLANS.
- CONTRACTOR SHALL DELINEATE WORK AREA WITH TRAFFIC CONES AND FLAGGING TAPE. ALL PITS OR EXCAVATIONS LEFT OPEN WHILE THE CONTRACTOR IS NOT ONSITE SHALL BE SECURED WITH 6-FOOT HIGH TEMPORARY FENCING.
- CONTRACTOR SHALL REMOVE CONCRETE DRIVEWAY, SIDEWALK, CURB AND GUTTER TO THE NEAREST JOINT.
- ALL REMOVED CURB RETURNS AND SIDEWALKS ARE TO BE REPLACE WITH CURB RAMPS AS SHOWN IN DETAILS ON SHEET 15.
- IF THE CONTRACTOR REQUIRES ADDITIONAL WORK AREA THAN WHAT IS IDENTIFIED IN THE TEMPORARY CONSTRUCTION PERMITS, THEN THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE PROPERTY OWNER PRIOR TO USE. COPIES OF ALL CONTRACTOR / OWNER AGREEMENTS SHALL BE PROVIDED TO THE ENGINEER.
- ALL STOP AND STREET NAME SIGNS ARE TO REMAIN OPERATIONAL THROUGHOUT THE DURATION OF THIS PROJECT. THIS WORK SHALL BE INCIDENTAL TO BID ITEM 85.05.
- REMOVING AND RESETING OF ON-PROPERTY PRIVATE IMPROVEMENTS INCLUDING BUT NOT LIMITED TO RETAINING WALLS, PLAY EQUIPMENT, GARDENS, PLANTERS, SHRUBS, GROUND COVER INCLUDING TOPSOIL AND SEED, AND OTHER PRIVATE IMPROVEMENTS OR PERSONAL PROPERTY DISTURBED BY THE WORK IS INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT WILL BE MADE.
- PROTECT EXISTING VEGETATION (TREES, SHRUBS, AND GRASS) TO THE GREATEST EXTENT POSSIBLE. PROTECTION OF VEGETATION SHALL BE INCIDENTAL TO THE CONTRACT AND NO SEPARATE PAYMENT SHALL BE MADE. CONTRACTOR SHALL MINIMIZE IMPACTS TO ON-PROPERTY IMPROVEMENTS OUTSIDE OF TRENCH SECTION (I.E. PLACING SEPARATION FABRIC BETWEEN EXISTING GRASS AND MATERIAL STOCKPILE). MINIMIZING IMPACTS IS INCIDENTAL TO THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE WITH AND ADHERE TO THE REQUIREMENTS OF ALL AFFECTED UTILITIES REGARDING TEMPORARY RELOCATION, SHORING, AND WORK PERFORMED IN PROXIMITY TO THEIR FACILITIES AND IS INCIDENTAL TO CONTRACT.

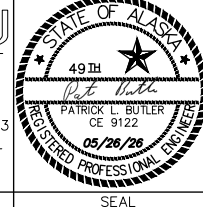
RECORD DRAWING

Note: To be filled out on original drawings upon project completion.

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CONTRACTOR: _____
BY: _____ TITLE: _____
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COMPANY: _____
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COMPANY: _____
BY: _____ TITLE: _____
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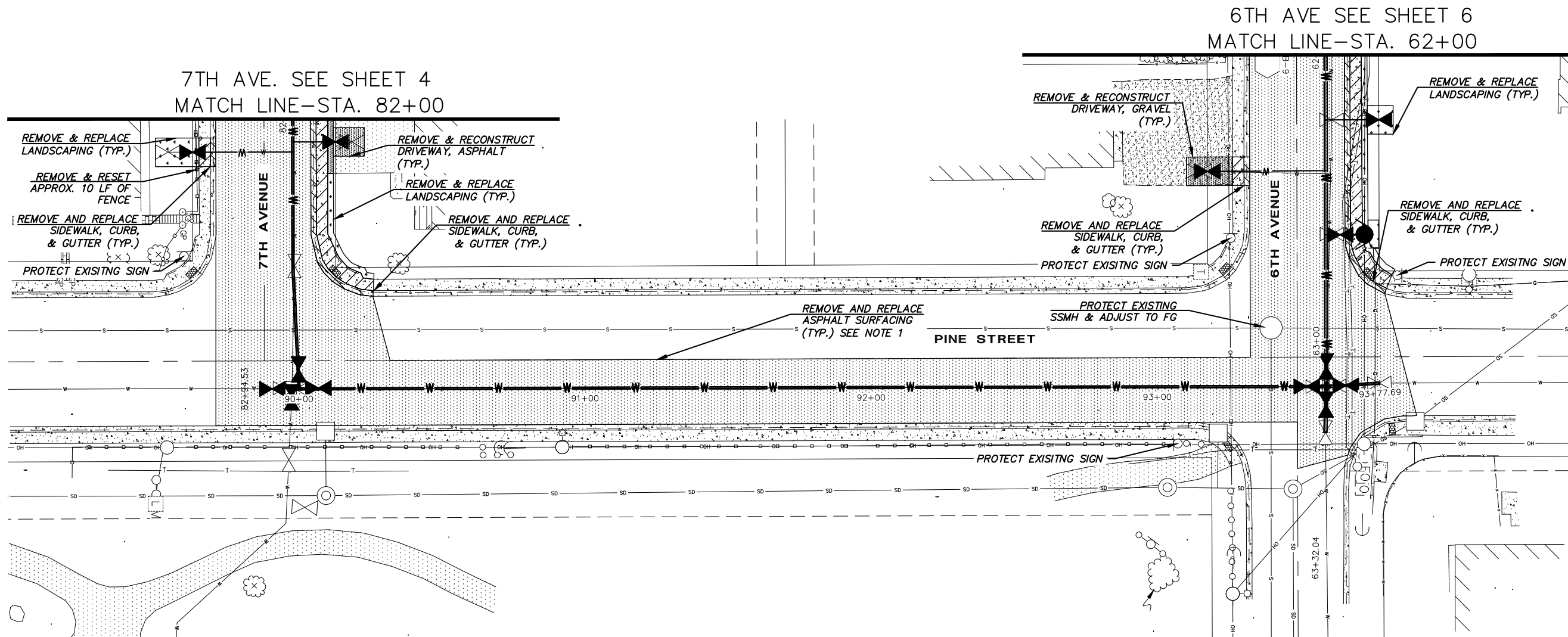
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

E. 7TH LANE TO PINE WATER REHAB.

KEY MAP, NOTES, LEGEND,
& ABBREVIATIONS

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: MAY, 2026
GRID: SW 1336/1337
PROJ. ID.: WW.00016

SHEET 2 of 16



SHEET NOTES

1. ALL TRAFFIC MARKINGS IN PINE STREET SHALL BE REPLACED IN ACCORDANCE WITH MASS 85.03 AND IS INCIDENTAL TO REMOVE AND REPLACE ASPHALT SURFACING. ALL STRIPING WILL BE METHYL METHACRYLATE STRIPING SHALL BE INLAID AT 125 MILS THICKNESS..



VERIFY SCALE				THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.				IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.				FULL SIZE SCALE HORZ SCALE: 1" = 20' VERT SCALE: 1" = 5'			
DATA	DRAWN BY	CHECKED BY	DATE	DATA	DRAWN BY	CHECKED BY	DATE	REV	DATE	DESCRIPTION	BY	DATE	REV	DATE	DESCRIPTION
BASE	HDL	TC		TELEPHONE	HDL	TC									
TOPOGRAPHY	HDL	TC		ELECTRIC	HDL	TC									
PROFILE	TC	JLS		CABLE TV	HDL	TC									
SANITARY SEWER	HDL	TC		TRAFFIC SIGNAL	HDL	TC									
STORM SEWER	HDL	TC		DESIGN	TC	JLS									
WATER	TC	JLS		QUANTITIES	TC	JLS									
GAS	HDL	TC		MUN. FINAL CHECK	JLS	TRT									
PLAN CHECK												REVISIONS			

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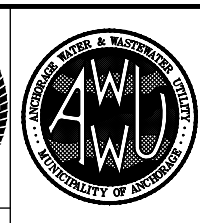
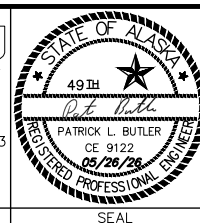
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COMPANY: _____
DATE: _____

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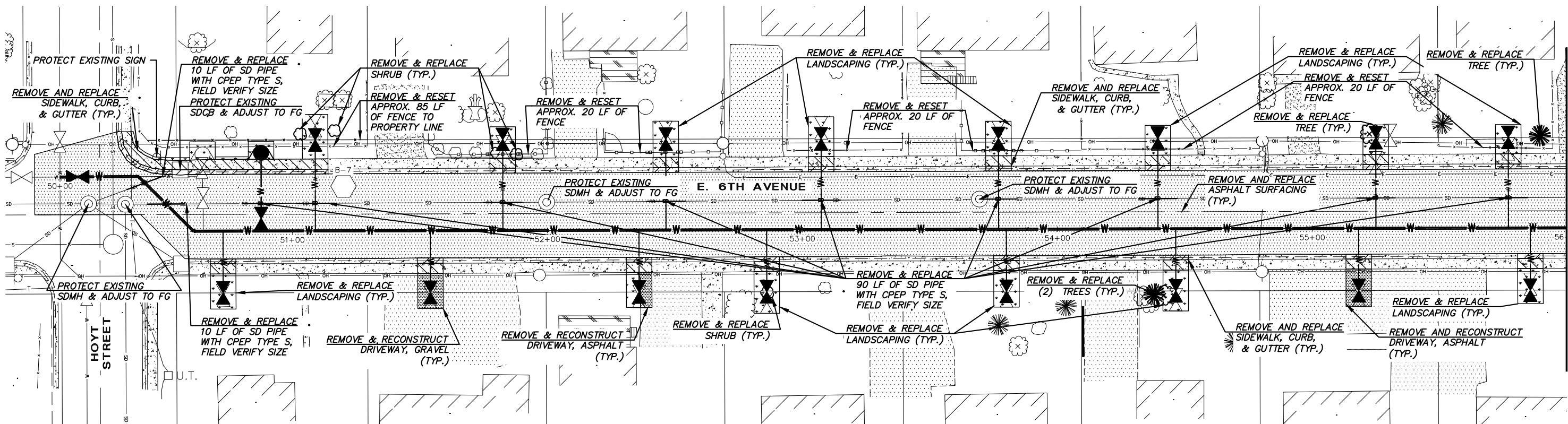
AWWU
ENGINEERING • PLANNING
FIELD SERVICE • INSPECTION
3000 Arctic Boulevard
Anchorage, Alaska 99503
Phone (907) 564-2774
Fax (907) 562-0824
CONSULTANT



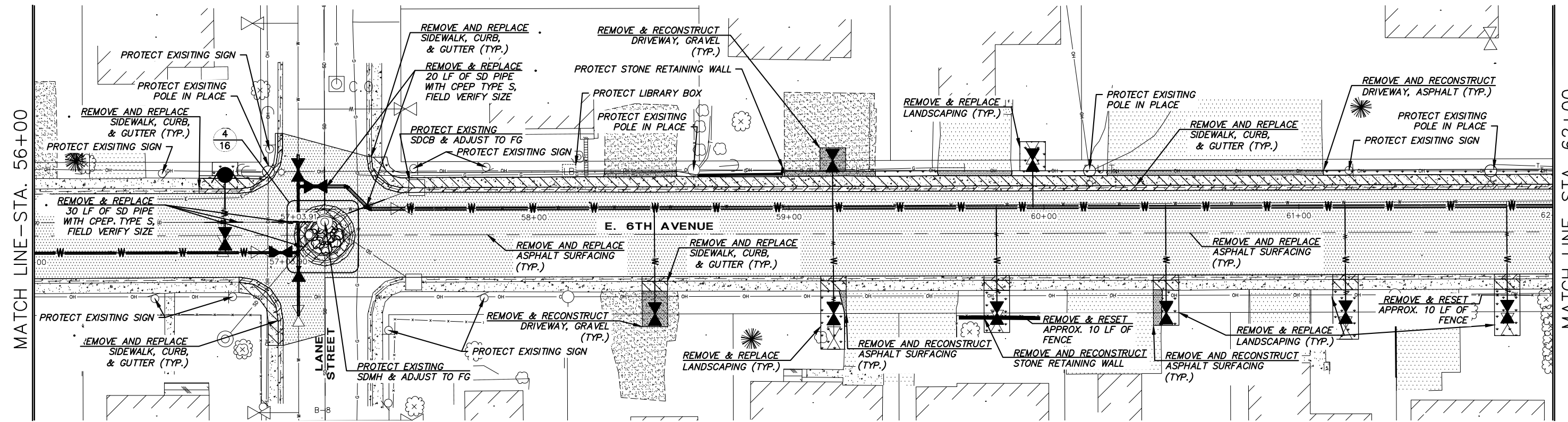
MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

E. 7TH LANE TO PINE WATER REHAB.
**DEMOLITION
PINE STREET**

HORZ SCALE: 1"=20'
VERT SCALE: 1"=5'
DATE: MAY, 2026
GRID: SW 1336/1337
PROJ. ID.: WW.00016
SHEET 5 of 16



MATCH LINE—STA. 56+00
AWWU PLAN SET NO. 11020



MATCH LINE—STA. 62+00
SEE SHEET 5



VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.				IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE HORZ SCALE: 1" = 20' VERT SCALE: 1" = 5'	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE	HDL	TC	TELEPHONE	HDL	TC				
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC				
PROFILE	TC	JLS	CABLE TV	HDL	TC				
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC				
STORM SEWER	HDL	TC	DESIGN	TC	JLS				
WATER	TC	JLS	QUANTITIES	TC	JLS				
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT				
PLAN CHECK						REVISIONS			

WATER SERVICE TABLE							
LEGAL DESCRIPTION	WATER LINE STA. @ MAIN (PIPE)	EX. SIZE	PROP. OSZD SIZE	MATERIAL TYPE	DISTANCE FROM MAIN TO PROP.	DEPTH AT MAIN*	DEPTH AT PROPERTY LINE*
LAWRENCE SUBD. BLK3 LOT 10A	70+92.71	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK4 LOT 9A	70+98.16	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK4 LOT 8A	71+38.37	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK3 LOT 11A	71+75.65	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK3 LOT 12A	72+28.01	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK4 LOT 7A	72+32.24	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK4 LOT 6A	72+73.34	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK3 LOT 13A	72+88.02	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK4 LOT 5A	73+71.80	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK3 LOT 14A	73+79.42	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK3 LOT 15A	74+11.72	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK4 LOT 4A	74+39.68	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK4 LOT 3A	74+79.94	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK3 LOT 16A	75+08.78	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK3 LOT 17A	75+51.94	¾"	1"	TYPE K COATED COPPER	15.00		
LAWRENCE SUBD. BLK4 LOT 2A	75+79.45	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK4 LOT 1A	76+09.51	¾"	1"	TYPE K COATED COPPER	35.00		
LAWRENCE SUBD. BLK3 LOT 18A	76+20.00	¾"	1"	TYPE K COATED COPPER	15.00		

2 PROVIDE A WATER SERVICE EXTENSION COMPLETE WITH A SILVER-SOLDERED CONNECTION ON PROPERTY. THIS WORK SHALL FACILITATE CONNECTION OF THE EXISTING ON-PROPERTY WATER SERVICE LINE TO THE NEW CURB STOP, INCLUDING RELOCATION OF THE KB TO THE PL AND TRANSITION FROM 3/4-INCH TO 1-INCH SERVICE USING A COPPER REDUCER.

*TO BE COMPLETED AS PART OF RECORD DRAWING

PIPE TABLE							
PIPE NAME	TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
W1	8" PVC C-900 DR-18 RJIB	684.80	N89°50'46"E	2636404.88	1675558.23	2636406.72	1676243.03

FH TABLE							
PIPE NAME	PIPE TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
FH2	6" PVC C-900 DR-18 RJIB	14.00	N0°09'14"W	2636405.83	1675912.00	2636419.83	1675911.96

SHEET NOTES

- THE EXISTING 6-INCH WATER LINE BETWEEN STA. 70+02.00 TO STA. 76+82.80 SHALL BE DECOMMISSIONED IN PLACE PER MASS SECTION 60.08.

*TO BE COMPLETED AS PART OF RECORD DRAWING

ACAD FILE: PLOT DATE: PLOT SCALE:

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE HORZ SCALE: 1" = 50' VERT SCALE: 1" = 5'	
DATA	DRAWN BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION
BASE	HDL	TC	TELEPHONE	HDL	TC		
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC		
PROFILE	TC	JLS	CABLE TV	HDL	TC		
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC		
STORM SEWER	HDL	TC	DESIGN	TC	JLS		
WATER	TC	JLS	QUANTITIES	TC	JLS		
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT		
PLAN CHECK				REVISIONS			

ANODE TABLE	
STA./OFFSET	STA./OFFSET

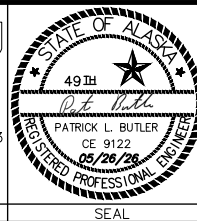
RECORD DRAWING

- Note: To be filled out on original drawings upon project completion.
- DATA PROVIDED BY:
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CONTRACTOR: _____
BY: _____ TITLE: _____
DATE: _____
 - DATA TRANSFERRED BY:
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____
 - 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: _____
COMPANY: _____
BY: _____ TITLE: _____
DATE: _____

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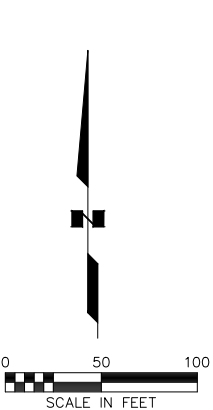
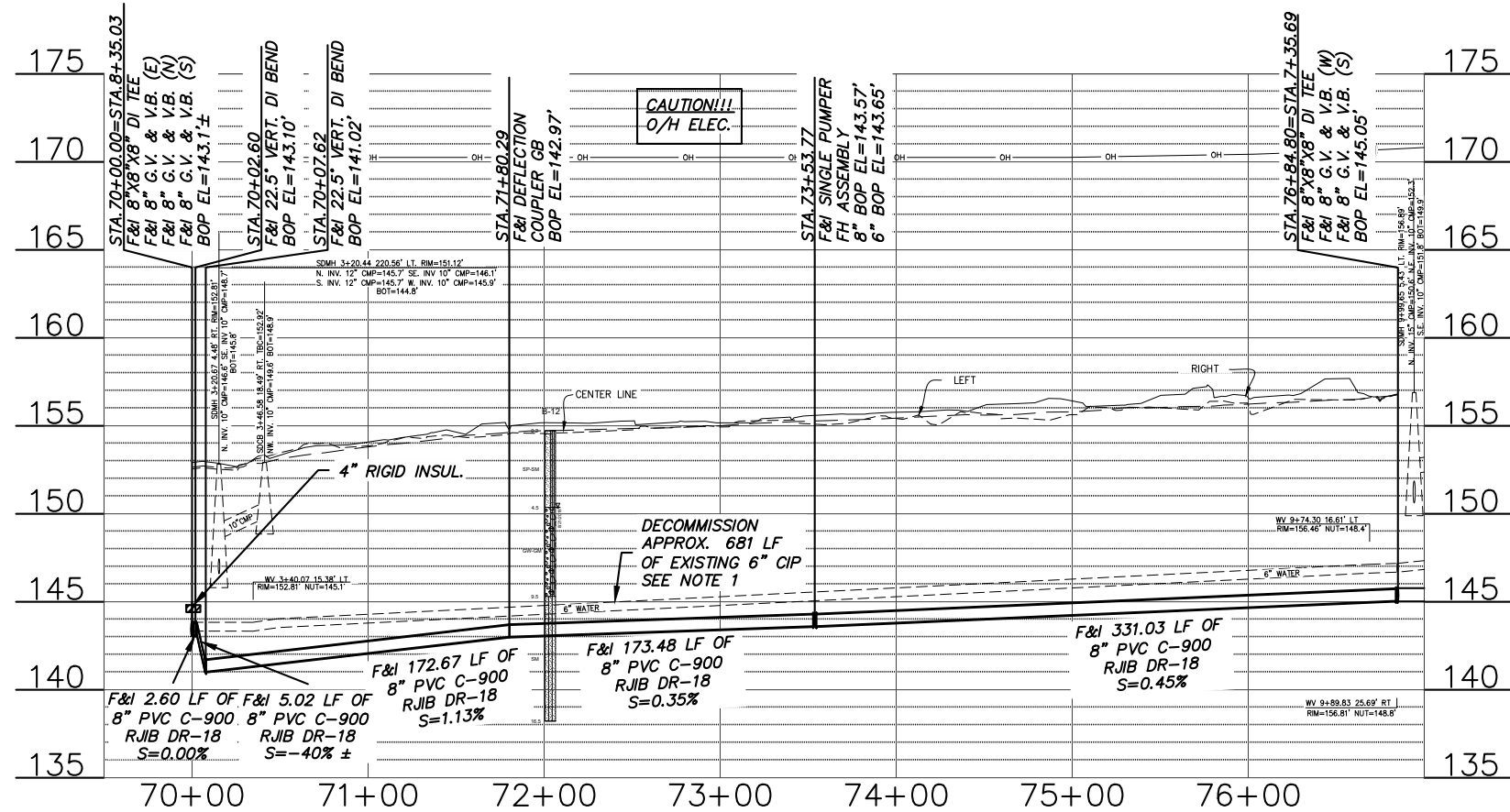
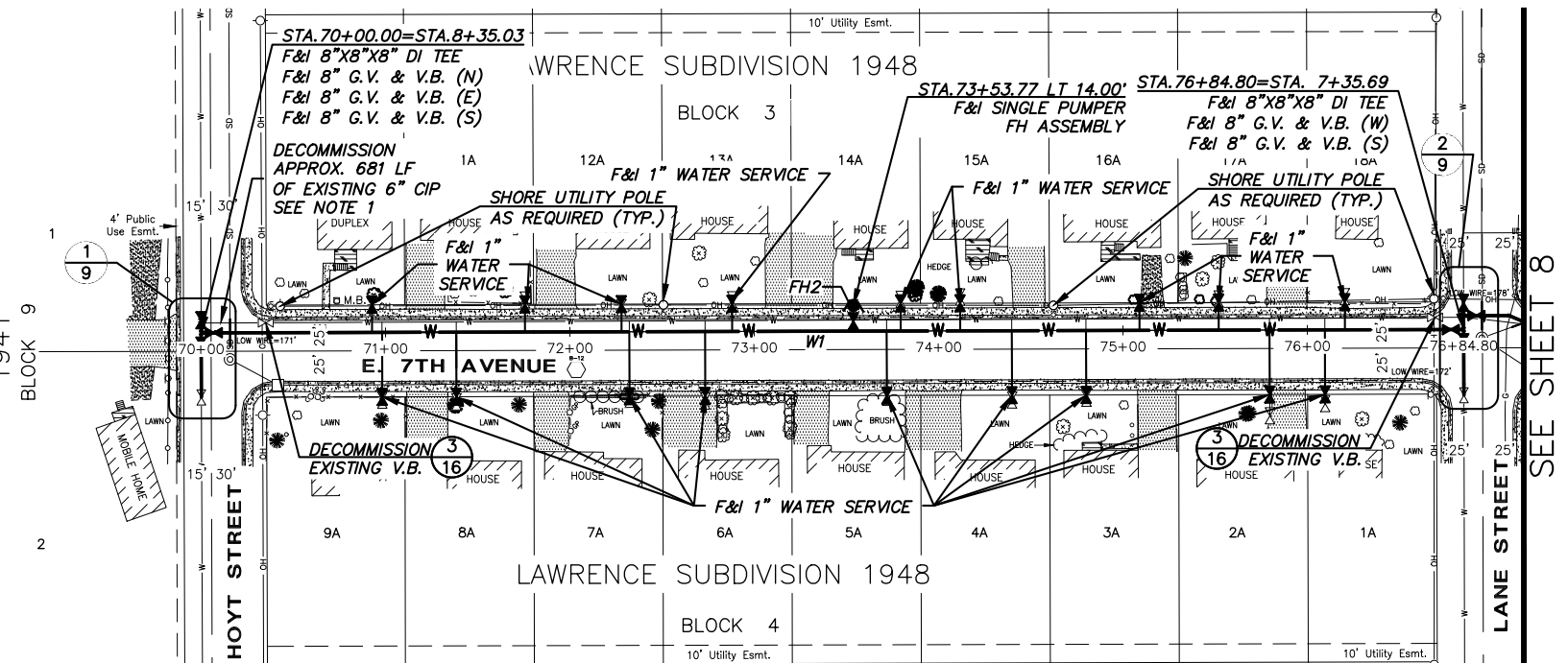
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E. 7TH LANE TO PINE WATER REHAB. 7TH AVENUE HOYT TO LANE WATER PLAN & PROFILE			
HORZ SCALE: 1"=50'	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 7 of 16
PROJ. ID.: WW.00016			

LAWRENCE SUBDIVISION 1941

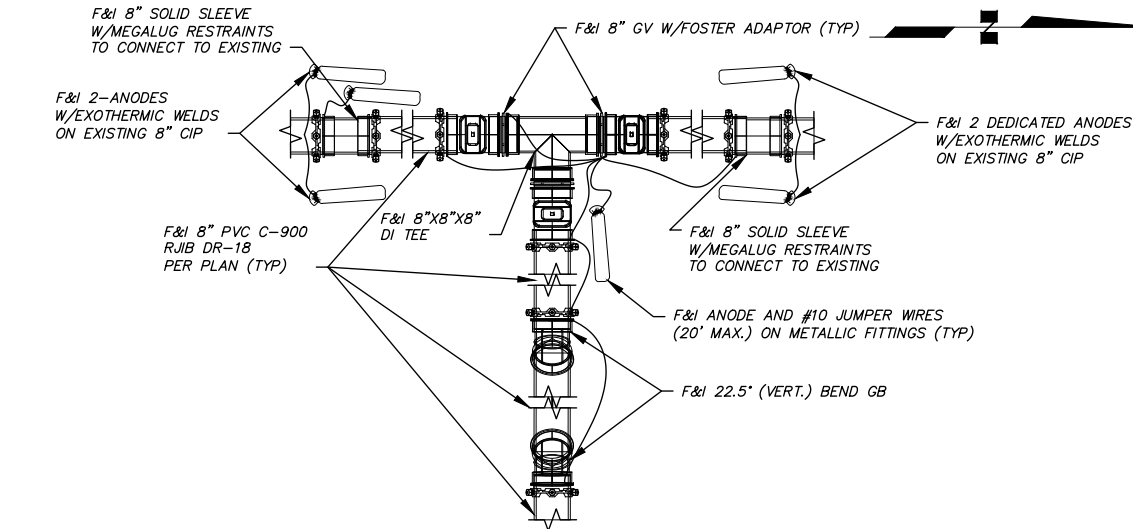


AWWU PLAN SET NO. 11020

PIPE TABLE							
PIPE NAME	TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
W9	8" PVC C-900 DR-18 RJB	46.30	N0°09'19"W	2636369.85	1675558.33	2636416.15	1675558.20
W10	8" PVC C-900 DR-18 RJB	51.09	N0°11'05"W	2636371.03	1676243.15	2636422.12	1676242.98

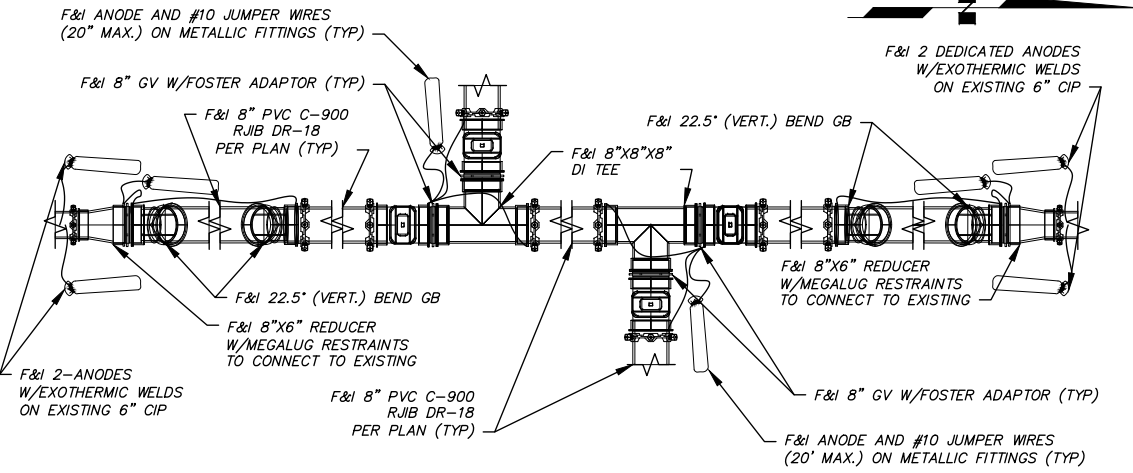
ANODE TABLE	
STA./OFFSET	STA./OFFSET

*TO BE COMPLETED AS PART OF RECORD DRAWING



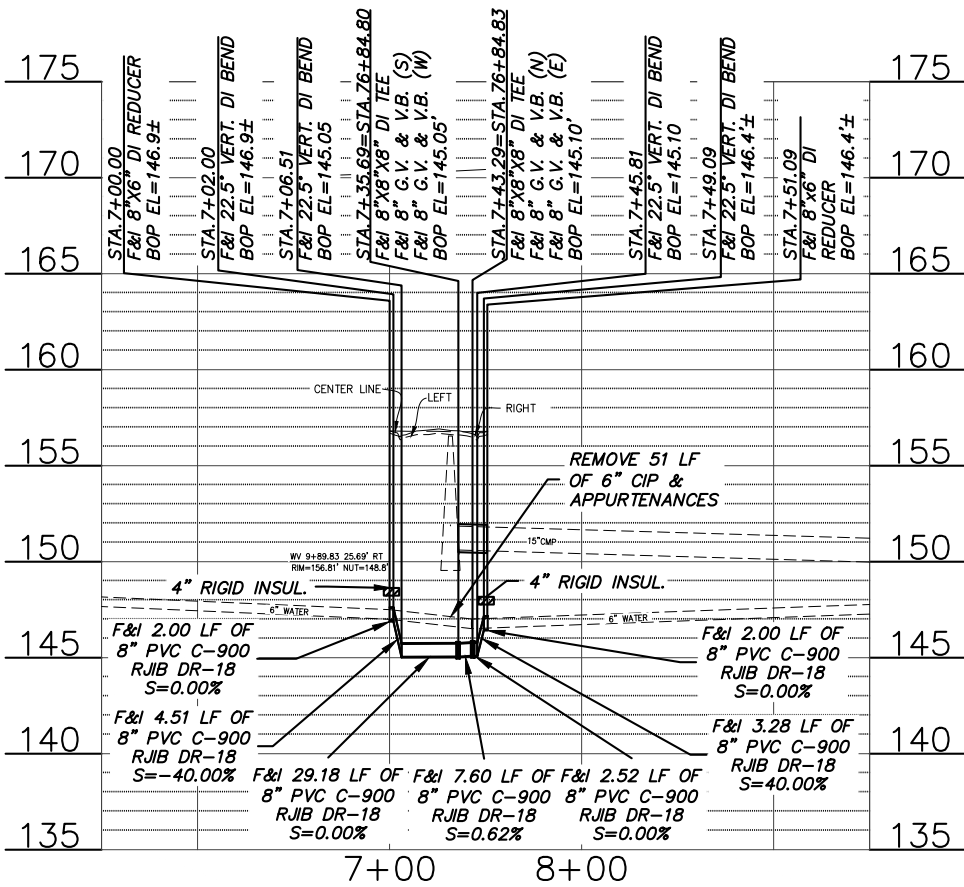
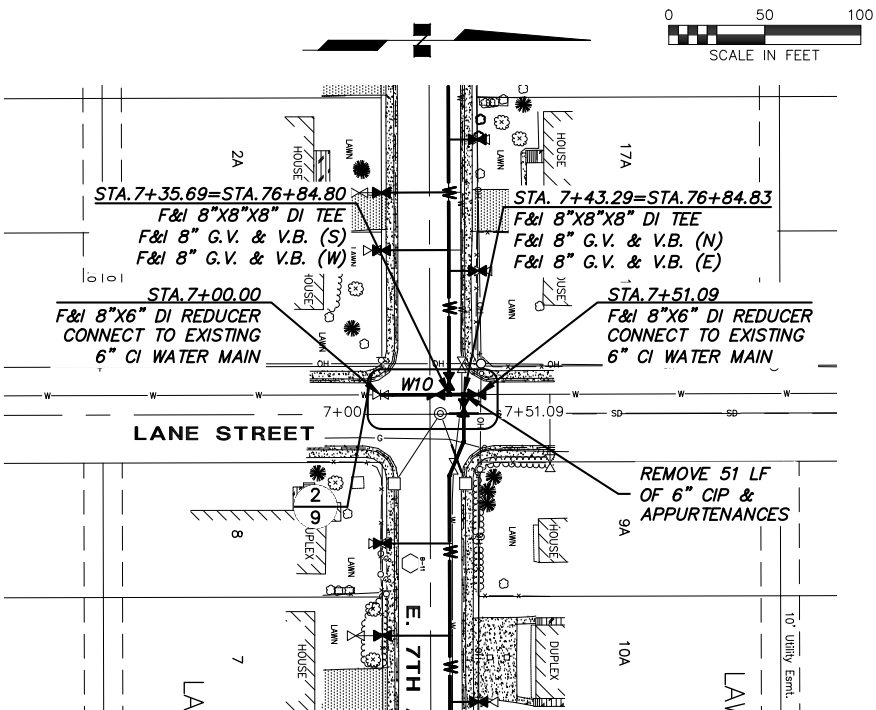
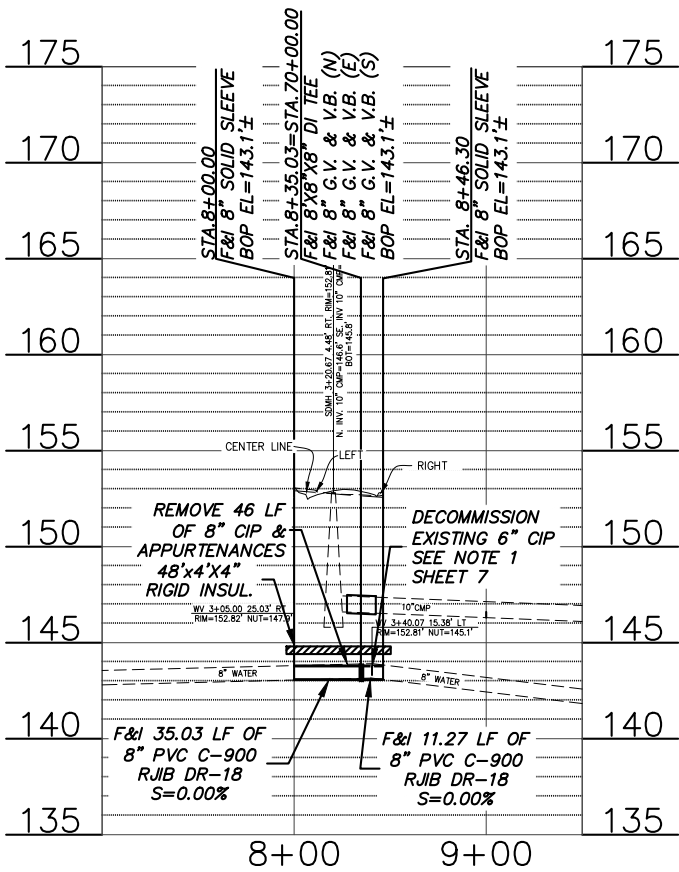
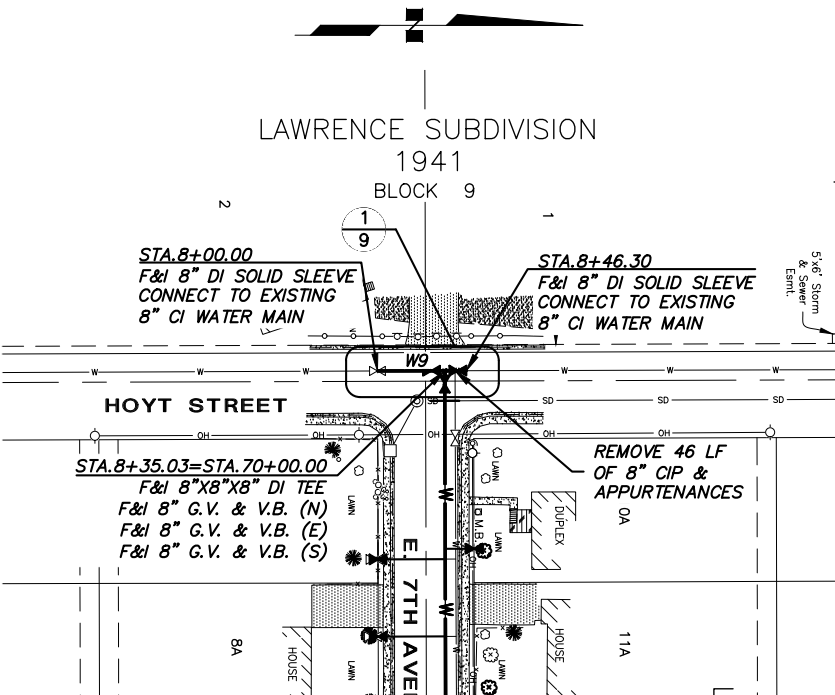
1
9

7TH AVE AND HOYT STREET
SCALE: NTS



2
9

7TH AVE AND LANE STREET
SCALE: NTS

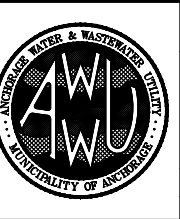
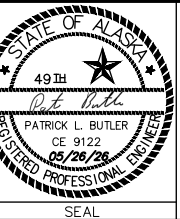


VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE HORZ SCALE: 1" = 50' VERT SCALE: 1" = 5'	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE
BASE	HDL	TC	TELEPHONE	HDL	TC		
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC		
PROFILE	TC	JLS	CABLE TV	HDL	TC		
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC		
STORM SEWER	HDL	TC	DESIGN	TC	JLS		
WATER	TC	JLS	QUANTITIES	TC	JLS		
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT		

RECORD DRAWING		Note: To be filled out on original drawings upon project completion.	
1. DATA PROVIDED BY:		3. Based on periodic field observations by the Engineer (or an individual under his/her direct supervision), the Contractor-provided data appears to represent the project as constructed.	
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CONTRACTOR:		COMPANY:	
BY: _____ TITLE: _____		BY: _____ TITLE: _____	
DATE: _____		DATE: _____	
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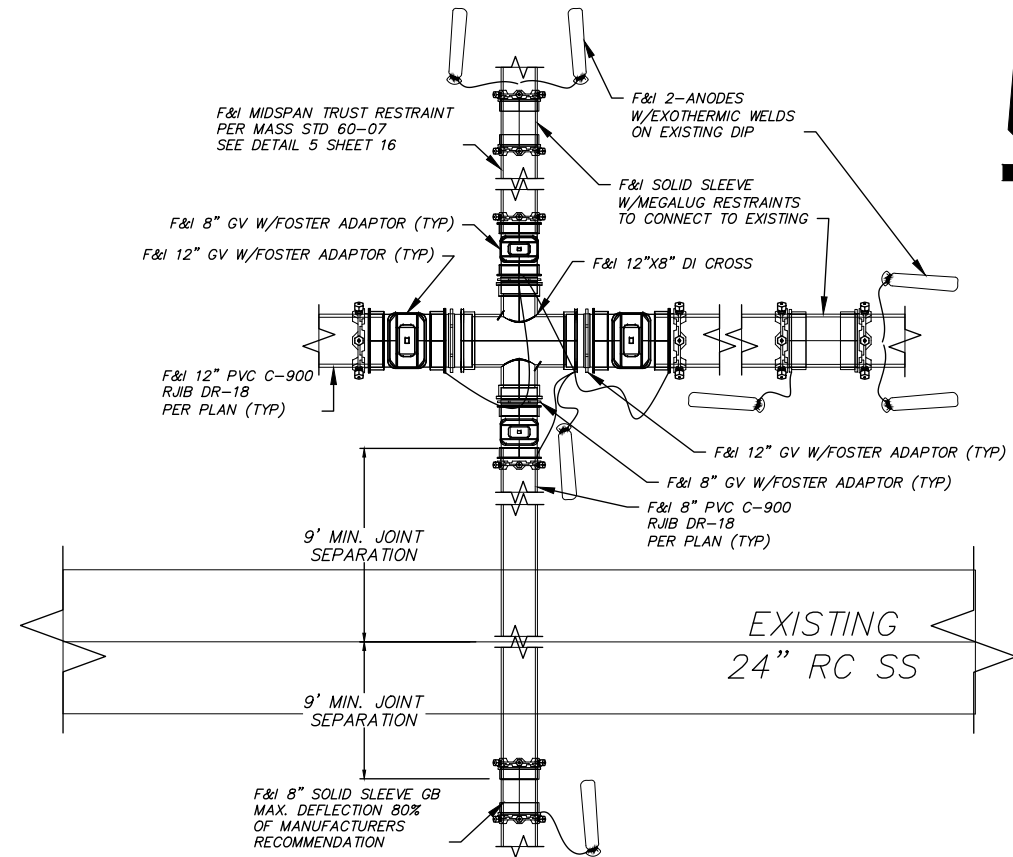
MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
E. 7TH AVE LANE TO PINE WATER REHAB. 7TH AVENUE HOYT & LANE WATER PLAN & PROFILE			
HORZ SCALE: 1"=50'	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 9 of 16
PROJ. ID.: WW.00016			

ACAD FILE: PLOT DATE: PLOT SCALE:

PIPE TABLE							
PIPE NAME	TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
W20	8" PVC C-900 DR-18 RJIB	359.13	N0°08'11"W	2636410.36	1676851.12	2636769.49	1676850.27
W21	8" PVC C-900 DR-18 RJIB	18.56	N3°37'43"W	2636769.49	1676850.27	2636788.01	1676849.09

ANODE TABLE	
STA./OFFSET	STA./OFFSET

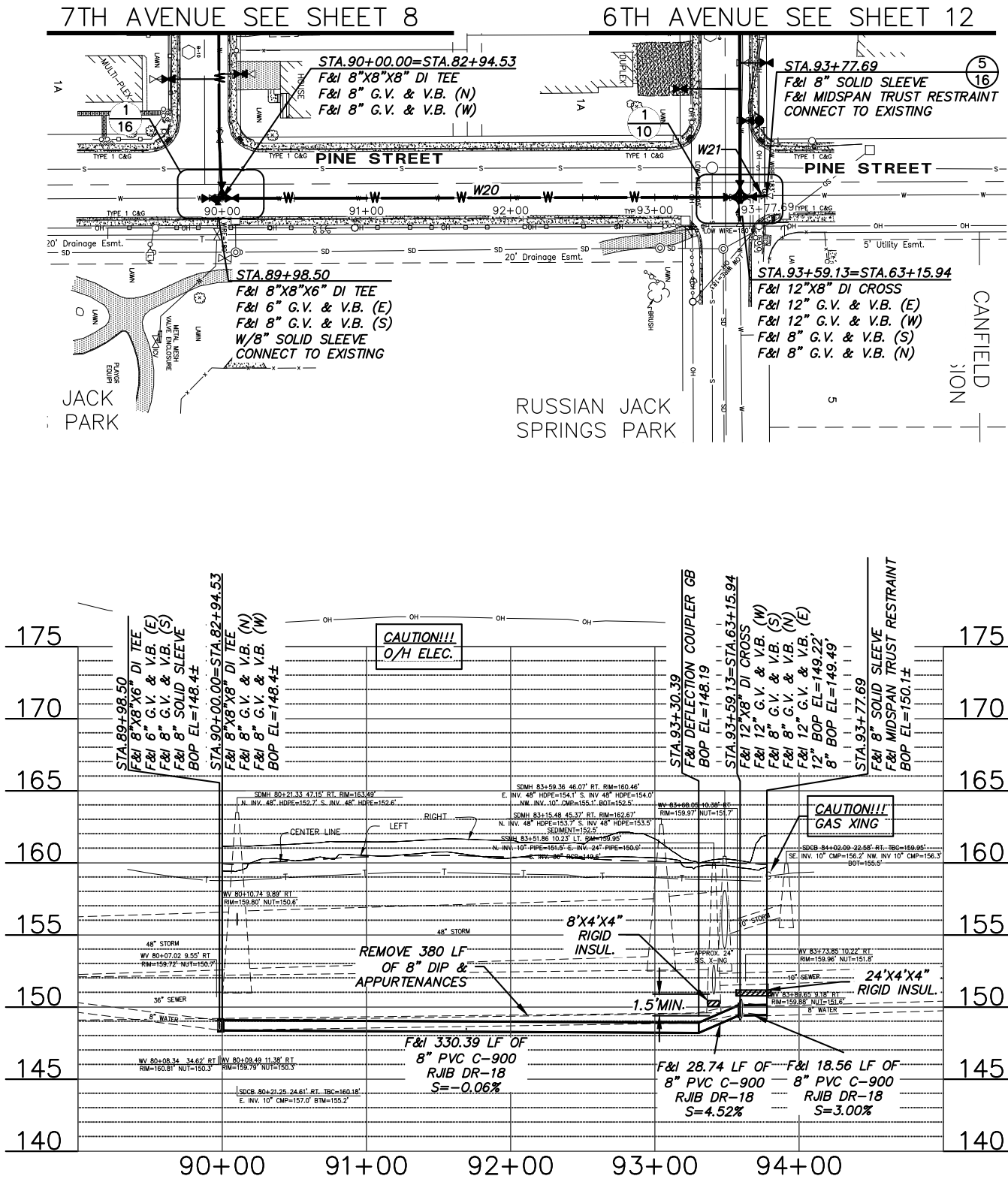
*TO BE COMPLETED AS PART OF RECORD DRAWING



SEWER CROSSING DETAIL
6TH AVE AND PINE STREET
SCALE: NTS

SHEET NOTES

- THE CONTRACTOR SHALL PROVIDE STRUCTURAL SUPPORT FOR THE 24" REINFORCED CONCRETE (RC) SEWER MAIN THAT IS EXPOSED DURING TRENCHING OPERATIONS. CONCRETE PIPE IS TO BE SUPPORTED EVERY 2-FOOT TO A CROSS BEAM TO PREVENT ANY DAMAGE TO THE PIPE. ANY DAMAGE TO THE RC SEWER MAIN RESULTING FROM CONSTRUCTION ACTIVITIES SHALL BE REPAIRED AT NO COST TO THE OWNER.
- THE RC SEWER MAIN SHALL BE BACKFILLED USING FLOWABLE FILL ENCASEMENT. SEE DETAIL 2 ON SHEET 16. NO VIBRATING DRUM ROLLER SHALL BE OPERATED WITHIN 10 FEET OF THE 24" RC SEWER MAIN UNTIL A MINIMUM COVER OF 3 FEET OVER FLOWABLE FILL HAS BEEN ACHIEVED.
- ENSTAR SAFETY WATCH IS REQUIRED TO BE ON-SITE DURING TRENCHING OF WATERLINE AT GAS CROSSING AT 6TH AVE. AND PINE ST.



VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE	
DATA	DRAWN BY	CHECKED BY	DATE	DESCRIPTION	BY	DATE	DESCRIPTION
BASE	HDL	TC	TELEPHONE	HDL	TC		
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC		
PROFILE	TC	JLS	CABLE TV	HDL	TC		
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC		
STORM SEWER	HDL	TC	DESIGN	TC	JLS		
WATER	TC	JLS	QUANTITIES	TC	JLS		
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT		
PLAN CHECK				REVISIONS			

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BY:		TITLE:	
DATE:		COMPANY:	
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COMPANY:		DATE:	
DATE:		DATE:	

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STATE OF ALASKA	
49TH	
PATRICK L. BUTLER CE 9122 06/26/20	
REGISTERED PROFESSIONAL ENGINEER	
SEAL	

ANCHORAGE WATER & WASTEWATER UTILITY	
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
E. 7TH LANE TO PINE WATER REHAB. PINE STREET 7TH TO 6TH WATER PLAN & PROFILE			
HORIZ SCALE: 1"=50'	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 10 of 16
VERT SCALE: 1"=5'	PROJ. ID.: WW.00016		

WATER SERVICE TABLE							
LEGAL DESCRIPTION	WATER LINE STA. @ MAIN (PIPE)	EX. SIZE	PROP. OSZD SIZE	MATERIAL TYPE	DISTANCE FROM MAIN TO PROP.	DEPTH AT MAIN*	DEPTH AT PROPERTY LINE*
LAWRENCE SUBD. BLK3 LOT 9A	50+72.78	¾"	1"	TYPE K COATED COPPER	24.26		
LAWRENCE SUBD. BLK2 LOT 14A	51+09.01	¾"	1"	TYPE K COATED COPPER	35.73		
LAWRENCE SUBD. BLK3 LOT 8A	51+54.06	¾"	1"	TYPE K COATED COPPER	24.29		
LAWRENCE SUBD. BLK2 LOT 15A	51+82.56	¾"	1"	TYPE K COATED COPPER	35.70		
LAWRENCE SUBD. BLK3 LOT 7A	52+35.92	¾"	1"	TYPE K COATED COPPER	24.31		
LAWRENCE SUBD. BLK2 LOT 16A	52+46.51	¾"	1"	TYPE K COATED COPPER	35.69		
LAWRENCE SUBD. BLK3 LOT 6A	52+86.00	¾"	1"	TYPE K COATED COPPER	24.33		
LAWRENCE SUBD. BLK2 LOT 17A	53+07.44	¾"	1"	TYPE K COATED COPPER	35.67		
LAWRENCE SUBD. BLK2 LOT 18A	53+76.97	¾"	1"	TYPE K COATED COPPER	35.65		
LAWRENCE SUBD. BLK3 LOT 5A	53+80.01	¾"	1"	TYPE K COATED COPPER	24.36		
LAWRENCE SUBD. BLK2 LOT 19A	54+39.49	¾"	1"	TYPE K COATED COPPER	35.63		
LAWRENCE SUBD. BLK3 LOT 4A	54+46.42	¾"	1"	TYPE K COATED COPPER	24.38		
LAWRENCE SUBD. BLK3 LOT 3A	55+18.17	¾"	1"	TYPE K COATED COPPER	24.40		
LAWRENCE SUBD. BLK2 LOT 20A	55+24.99	¾"	1"	TYPE K COATED COPPER	35.60		
LAWRENCE SUBD. BLK2 LOT 21A	55+76.95	¾"	1"	TYPE K COATED COPPER	35.58		
LAWRENCE SUBD. BLK2 LOT 2A	55+85.48	¾"	1"	TYPE K COATED COPPER	24.42		

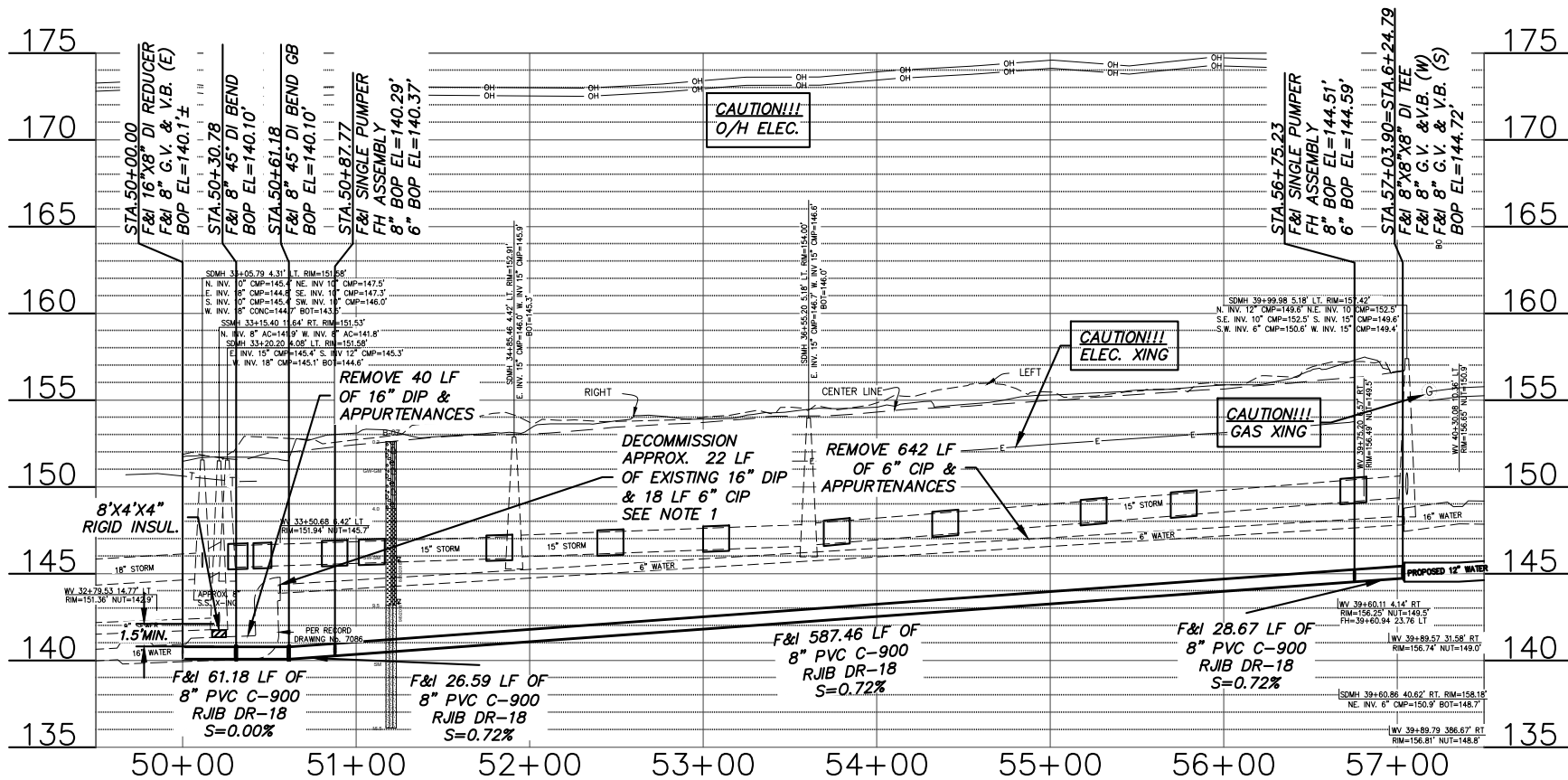
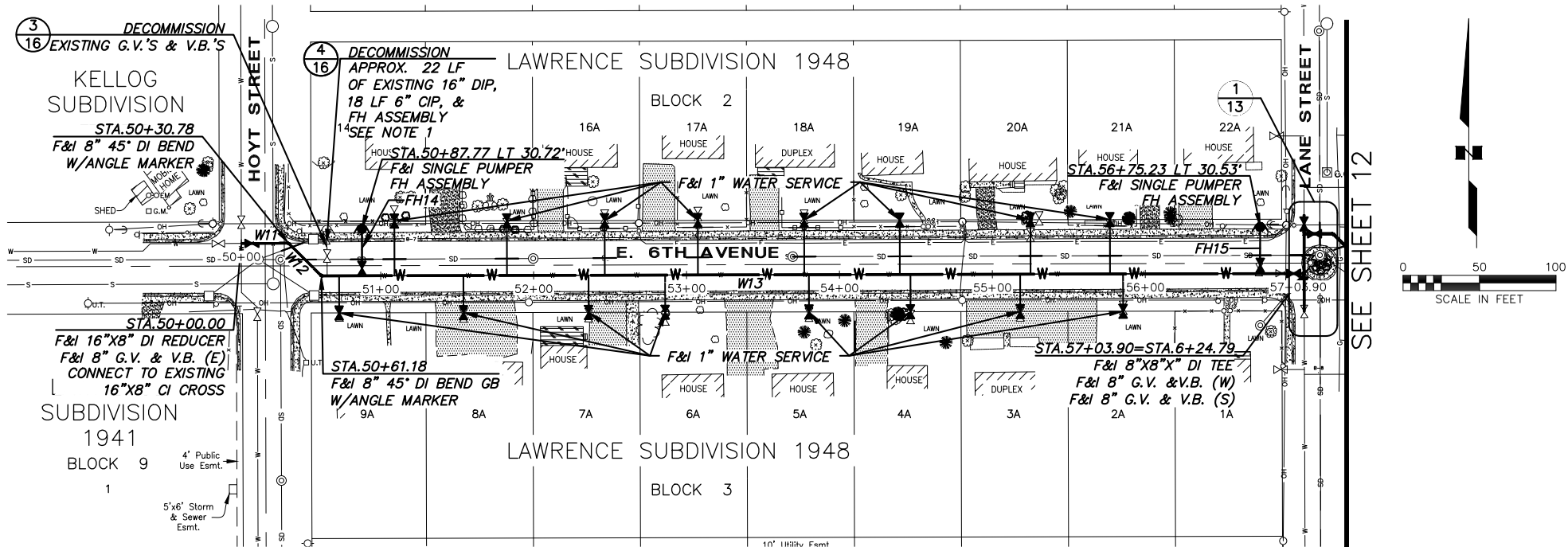
PROVIDE A WATER SERVICE EXTENSION COMPLETE WITH A SILVER-SOLDERED CONNECTION ON PROPERTY. THIS WORK SHALL FACILITATE CONNECTION OF THE EXISTING ON-PROPERTY WATER SERVICE LINE TO THE NEW CURB STOP, INCLUDING RELOCATION OF THE KB TO THE PL AND TRANSITION FROM 3/4-INCH TO 1-INCH SERVICE USING A COPPER REDUCER.

*TO BE COMPLETED AS PART OF RECORD DRAWING

PIPE TABLE							
PIPE NAME	PIPE TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
W11	8" PVC C-900 DR-18 RJB	30.78	N89°39'40"E	2636770.61	1675546.86	2636770.79	1675577.64
W12	8" PVC C-900 DR-18 RJB	30.40	S45°10'02"E	2636770.79	1675577.64	2636749.36	1675599.20
W13	8" PVC C-900 DR-18 RJB	642.72	N89°51'43"E	2636749.36	1675599.20	2636750.90	1676241.91
FH TABLE							
PIPE NAME	PIPE TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
FH14	6" PVC C-900 DR-18 RJB	30.72	N0°08'38"W	2636749.42	1675625.79	2636780.14	1675625.71
FH15	6" PVC C-900 DR-18 RJB	30.53	N0°08'17"W	2636750.84	1676213.25	2636781.37	1676213.18

SHEET NOTES

- THE EXISTING 16-INCH WATER LINE, 6-INCH WATER LINE, & FH ASSEMBLY BETWEEN STA. 50+40 TO STA. 50+65 SHALL BE DECOMMISSIONED IN PLACE PER MASS SECTION 60.08..



ANODE TABLE	
STA./OFFSET	STA./OFFSET

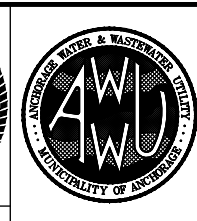
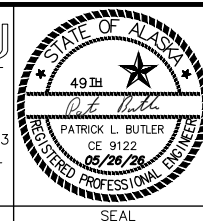
*TO BE COMPLETED AS PART OF RECORD DRAWING

VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE HORZ SCALE: 1" = 50' VERT SCALE: 1" = 5'	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE
BASE	HDL	TC	TELEPHONE	HDL	TC		
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC		
PROFILE	TC	JLS	CABLE TV	HDL	TC		
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC		
STORM SEWER	HDL	TC	DESIGN	TC	JLS		
WATER	TC	JLS	QUANTITIES	TC	JLS		
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT		
PLAN CHECK				REVISIONS			

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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
E. 7TH LANE TO PINE WATER REHAB. 6TH AVENUE HOYT TO LANE WATER PLAN & PROFILE			
HORZ SCALE: 1"=50'	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 11 of 16
VERT SCALE: 1"=5'	PROJ. ID.: WW.00016		

ACAD FILE: PLOT DATE: PLOT SCALE:

AWWU PLAN SET NO. 11020

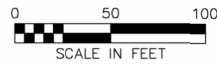
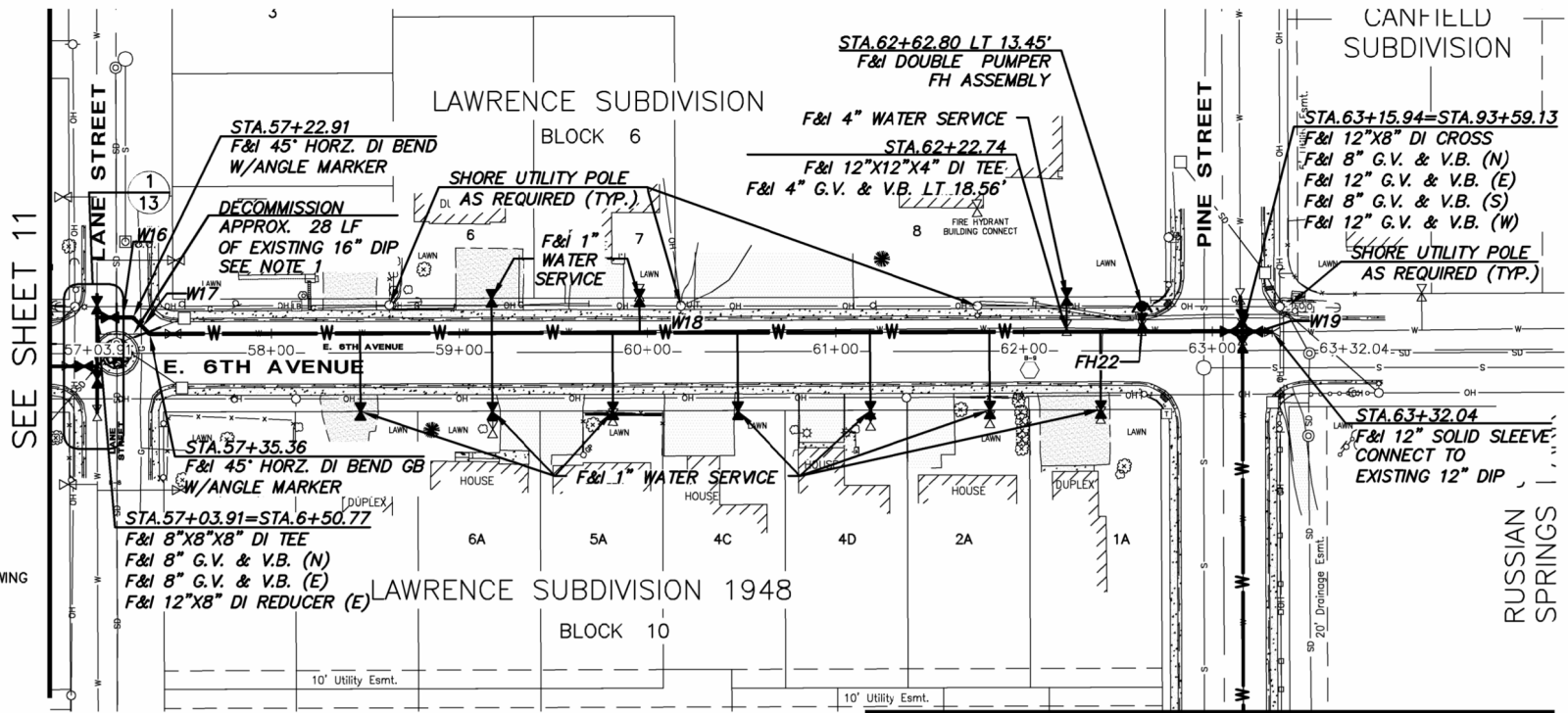
WATER SERVICE TABLE							
LEGAL DESCRIPTION	WATER LINE STA. @ MAIN (PIPE)	EX. SIZE	PROP. OSED SIZE	MATERIAL TYPE	DISTANCE FROM MAIN TO PROP.	DEPTH AT MAIN*	DEPTH AT PROPERTY LINE*
LAWRENCE SUBD. BLK10 LOT 7A	58+47.35	¾"	1"	TYPE K COATED COPPER	41.53		
LAWRENCE SUBD. BLK10 LOT 6A	59+17.44	¾"	1"	TYPE K COATED COPPER	41.51		
LAWRENCE SUBD. BLK6 LOT 6	59+17.14	¾"	1"	TYPE K COATED COPPER	18.49		
LAWRENCE SUBD. BLK10 LOT 5A	59+81.48	¾"	1"	TYPE K COATED COPPER	41.48		
LAWRENCE SUBD. BLK6 LOT 7	59+95.62	¾"	1"	TYPE K COATED COPPER	18.51		
LAWRENCE SUBD. BLK10 LOT 4C	60+47.87	¾"	1"	TYPE K COATED COPPER	41.48		
LAWRENCE SUBD. BLK10 LOT 4D	61+18.25	¾"	1"	TYPE K COATED COPPER	41.46		
LAWRENCE SUBD. BLK10 LOT 2A	61+81.66	¾"	1"	TYPE K COATED COPPER	41.45		
LAWRENCE SUBD. BLK6 LOT 8	62+22.74	4"	4"	PVC C-900 RJB	18.56		
LAWRENCE SUBD. BLK10 LOT 1A	62+40.65	¾"	1"	TYPE K COATED COPPER	41.43		

2 PROVIDE A WATER SERVICE EXTENSION COMPLETE WITH A SILVER-SOLDERED CONNECTION ON PROPERTY. THIS WORK SHALL FACILITATE CONNECTION OF THE EXISTING ON-PROPERTY WATER SERVICE LINE TO THE NEW CURB STOP, INCLUDING RELOCATION OF THE KB TO THE PL AND TRANSITION FROM 3/4-INCH TO 1-INCH SERVICE USING A COPPER REDUCER.

*TO BE COMPLETED AS PART OF RECORD DRAWING

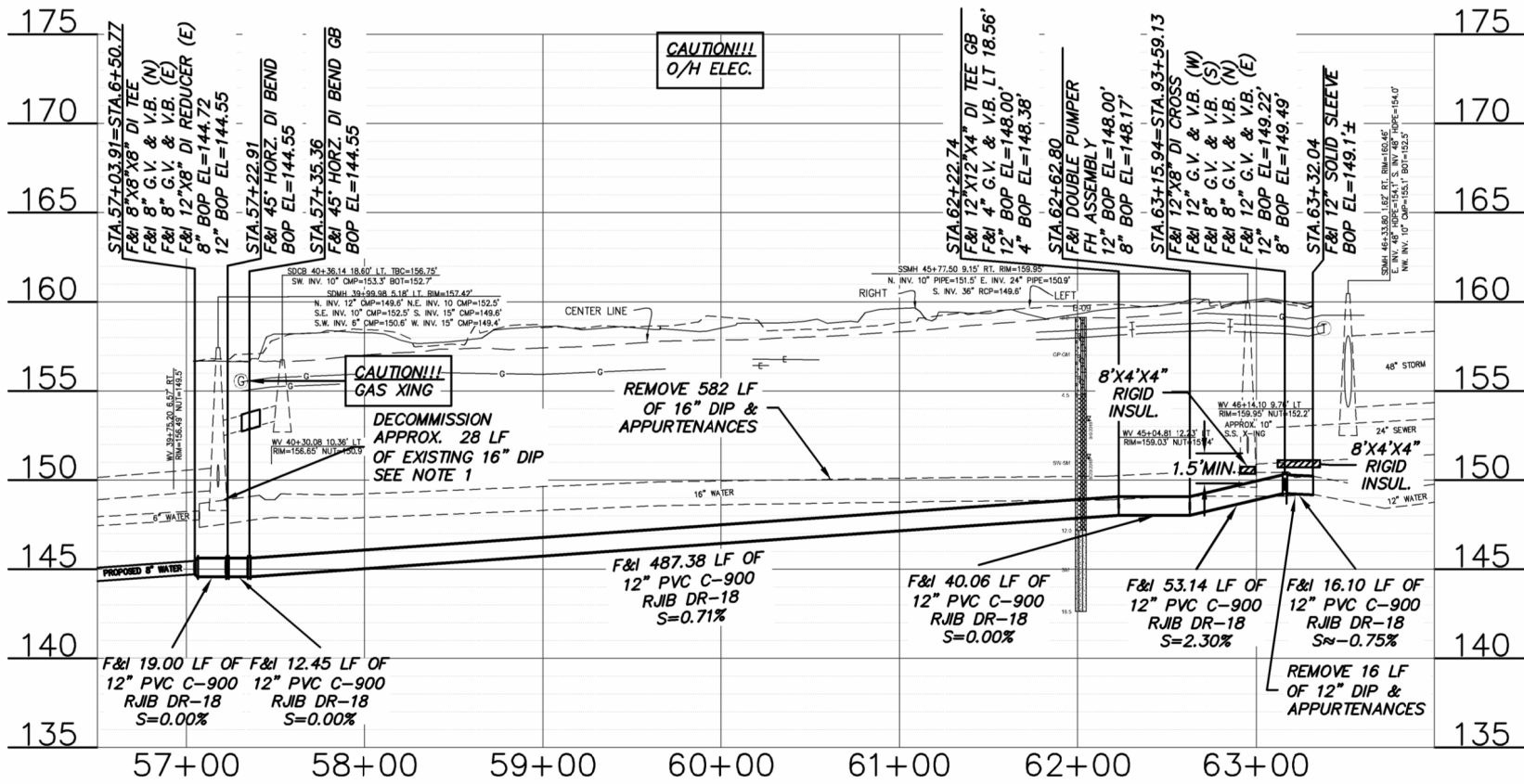
*TO BE COMPLETED AS PART OF RECORD DRAWING

ANODE TABLE	
STA./OFFSET	STA./OFFSET



PIPE TABLE							
PIPE NAME	TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
W16	12" PVC C-900 DR-18 RJB	19.00	S89°55'57"E	2636776.89	1676241.88	2636776.87	1676260.88
W17	12" PVC C-900 DR-18 RJB	12.45	S45°04'13"E	2636776.87	1676260.88	2636768.07	1676269.69
W18	12" PVC C-900 DR-18 RJB	580.58	N89°51'38"E	2636768.07	1676269.69	2636769.49	1676850.27
W19	12" PVC C-900 DR-18 RJB	16.10	S88°52'08"E	2636769.49	1676850.27	2636769.17	1676866.37

FH TABLE							
PIPE NAME	PIPE TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
FH22	6" PVC C-900 DR-18 RJB	13.45	N0°08'22"W	2636769.36	1676797.13	2636782.81	1676797.10



SHEET NOTES

- THE EXISTING 16-INCH WATER LINE STA. 57+06 TO STA. 57+33 SHALL BE DECOMMISSIONED IN PLACE PER MASS SECTION 60.08.

VERIFY SCALE

THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.

IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.

FULL SIZE SCALE
HORZ SCALE: 1" = 50'
VERT SCALE: 1" = 5'

DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE	DESCRIPTION	BY
BASE	HDL	TC	TELEPHONE	HDL	TC				
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC				
PROFILE	TC	JLS	CABLE TV	HDL	TC				
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC				
STORM SEWER	HDL	TC	DESIGN	TC	JLS				
WATER	TC	JLS	QUANTITIES	TC	JLS				
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT				
PLAN CHECK					REVISIONS				

RECORD DRAWING

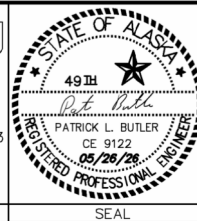
Note: To be filled out on original drawings upon project completion.

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BY: _____ TITLE: _____
DATE: _____
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COMPANY: _____
DATE: _____
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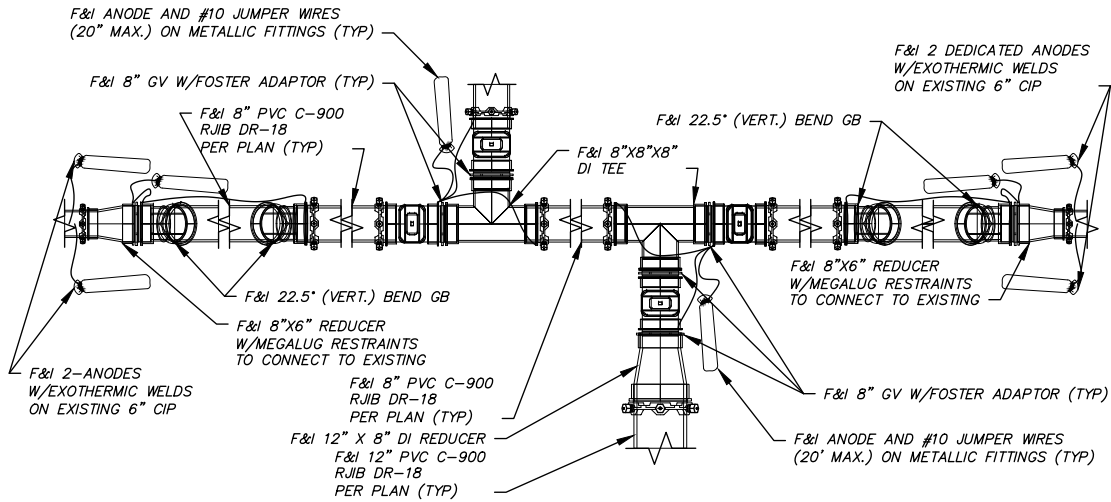


MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
E. 7TH AVE LANE TO PINE WATER REHAB. 6TH AVENUE LANE TO PINE WATER PLAN & PROFILE			
HORZ SCALE: 1"=50'	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 12 of 16
PROJ. ID.: WW.00016			

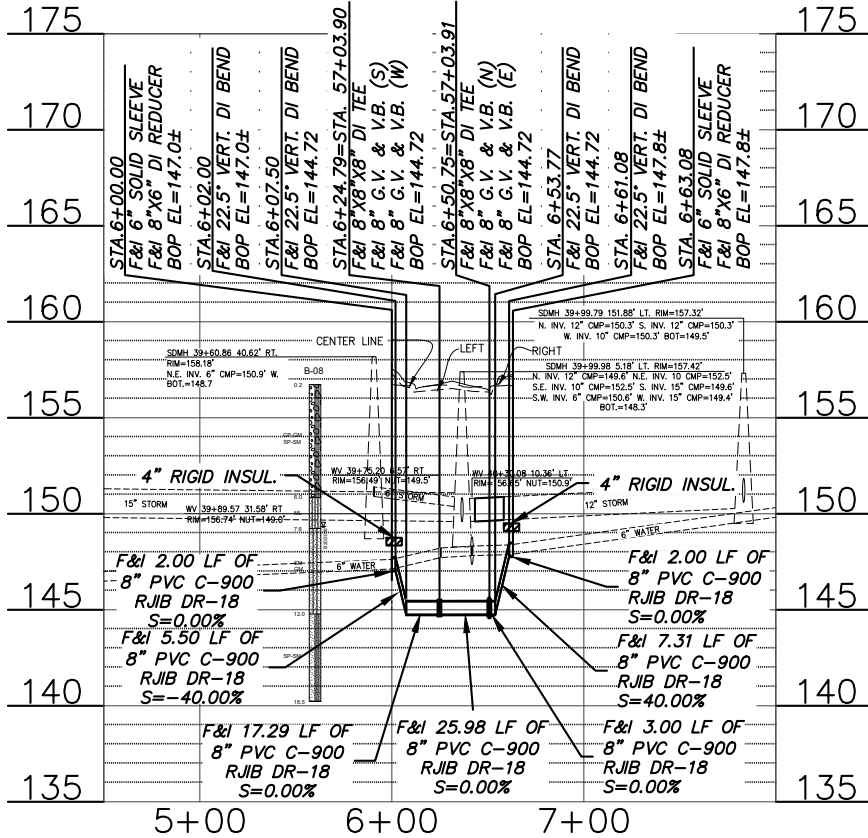
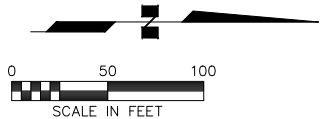
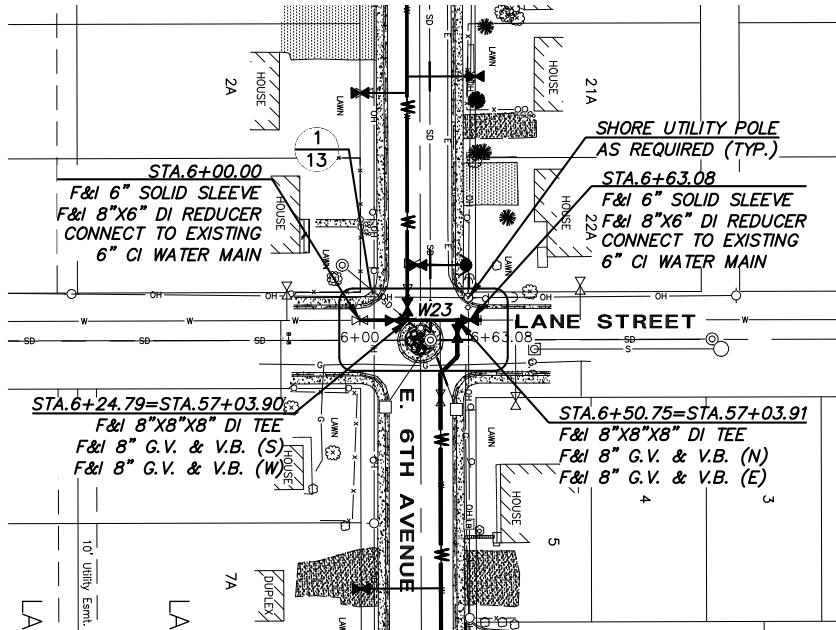
PIPE TABLE							
PIPE NAME	TYPE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
W23	8" PVC C-900 DR-18 RJIB	63.08	N0°04'57"W	2636726.11	1676241.95	2636789.20	1676241.86

ANODE TABLE	
STA./OFFSET	STA./OFFSET

*TO BE COMPLETED AS PART OF RECORD DRAWING



1
13
6TH AVE AND LANE STREET
SCALE: NTS



VERIFY SCALE									
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BASE	HDL	TC	TELEPHONE	HDL	TC				
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC				
PROFILE	TC	JLS	CABLE TV	HDL	TC				
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC				
STORM SEWER	HDL	TC	DESIGN	TC	JLS				
WATER	TC	JLS	QUANTITIES	TC	JLS				
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT				
PLAN CHECK					REVISIONS				

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BY: _____	TITLE: _____	BY: _____	TITLE: _____
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COMPANY:			
DATE: _____			

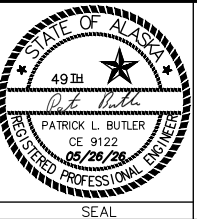
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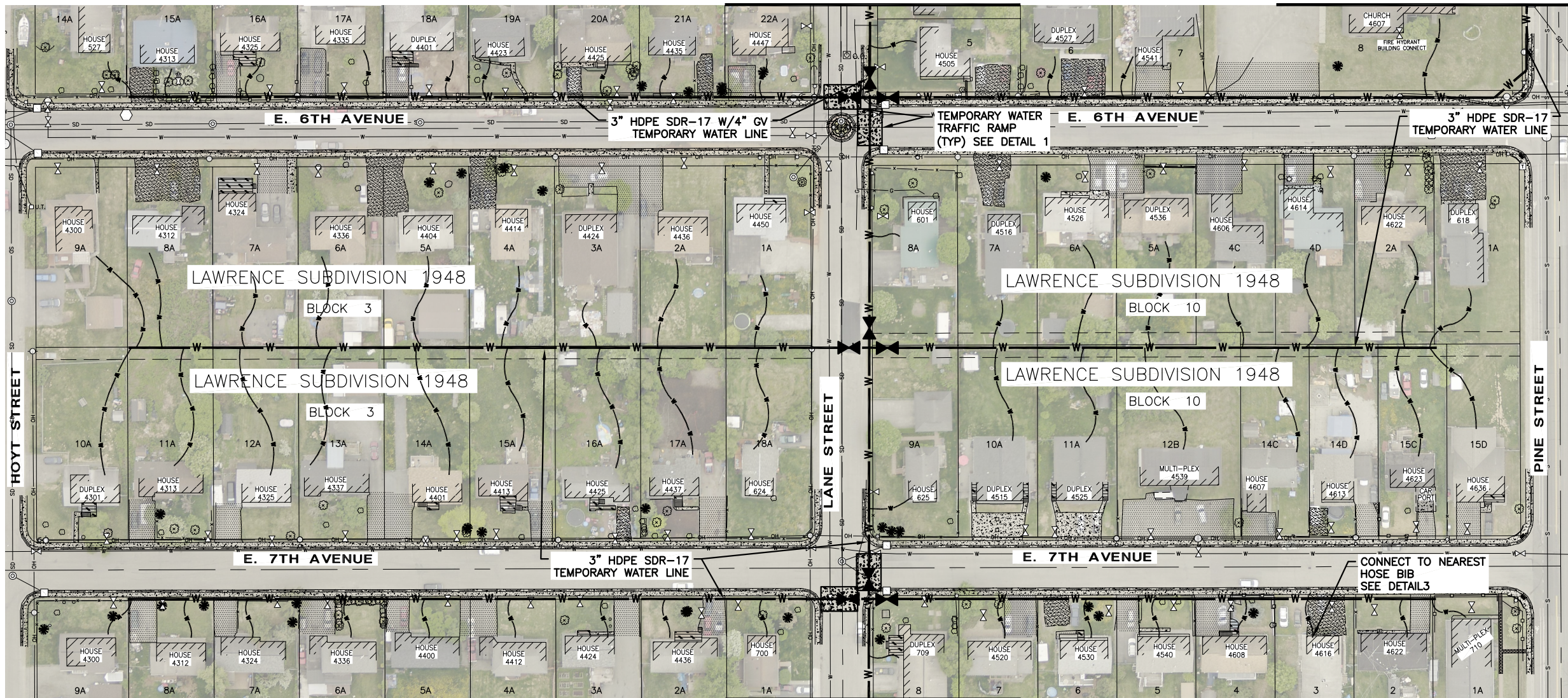
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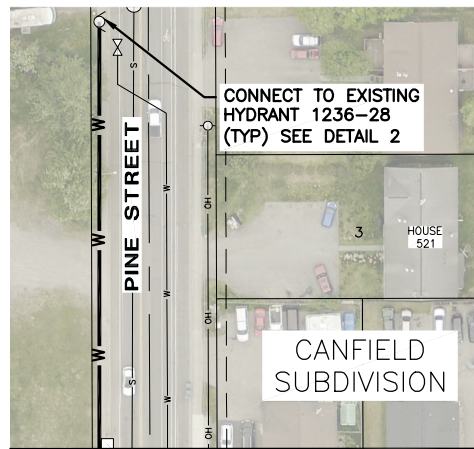
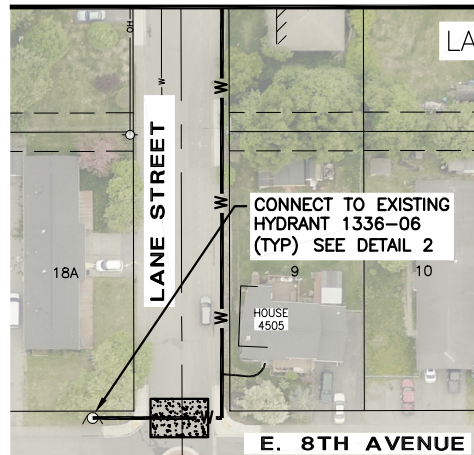
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E. 7TH AVE LANE TO PINE WATER REHAB. 6TH AVENUE & LANE WATER PLAN & PROFILE			
HORZ SCALE: 1"=50' VERT SCALE: 1"=5'	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 13 of 16
PROJ. ID.: WW.00016			

SEE MATCH LINE 3

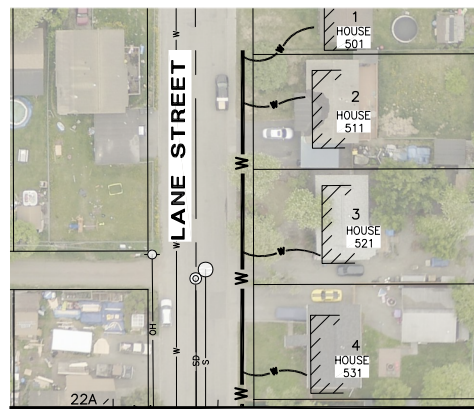
SEE MATCH LINE 2



SEE MATCH LINE 1



SEE MATCH LINE 2

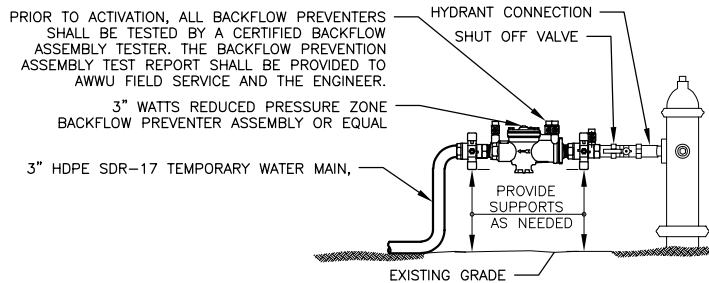


SEE MATCH LINE 3

SHEET NOTES

- CONTRACTOR IS TO COMPLY WITH PROVISIONS OF THE TEMPORARY CONSTRUCTION PERMITS (TCP).
- CONTRACTOR IS TO SECURE ACCESS AND PROVIDE COPY OF WRITTEN AGREEMENT WHEN NO TCP IS PROVIDED IN ACCORDANCE WITH MASS 60.07.
- MAX SHUT-DOWN DURATION IS 6-HOURS. INTERRUPTED WATER SERVICE TO ANY ONE CUSTOMER FOR MORE THAN SIX (6) HOURS, THE CONTRACTOR SHALL FURNISH AND INSTALL A TEMPORARY WATER SYSTEM.
- THIS TEMPORARY WATER PLAN SERVES AS A BASIS FOR ENSURING THAT CUSTOMERS ARE SUPPLIED WITH WATER DURING CONSTRUCTION.
- THE CONTRACTOR SHALL SUBMIT A PHASED TEMPORARY WATER PLAN IN ACCORDANCE WITH MASS 60.07. WHEREIN NO MORE THAN ONE STREET (6TH OR 7TH) HAS ITS WATER SERVICE TO CUSTOMERS PROVIDED THROUGH TEMPORARY WATER AT ANY GIVEN TIME. SEE SPECIAL PROVISIONS SECTION 60.02, ARTICLE 2.4.

SEE MATCH LINE 1

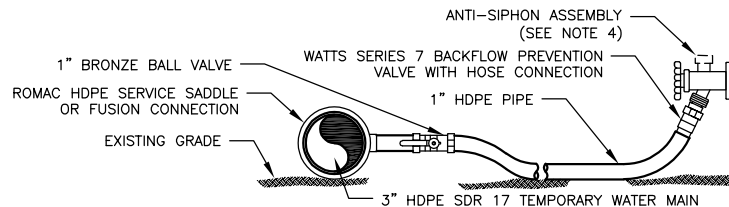


1
14

TYPICAL
TEMPORARY WATER TRAFFIC XING
SCALE: NTS

2
14

TYPICAL
TEMPORARY WATER HYDRANT CONNECTION
SCALE: NTS



- DETAIL NOTES:
- HOME SERVICE CONNECTION WILL BE MADE AT HOSE BIB AND BACK FLOW PREVENTION WILL BE INSTALLED AS SHOWN.
 - SEE SPECIFICATIONS FOR TEMPORARY WATER REQUIREMENTS.
 - PRIOR TO CONNECTION OF TEMPORARY WATER, HOSE BIBS ARE TO BE PRESSURE TESTED PER M.A.S.S.
 - IF THE EXISTING HOSE BIB ASSEMBLY IS EQUIPPED WITH A BUILT-IN ANTI SIPHON, THE SILLCOCK WILL NEED TO BE REPLACED WITH A STANDARD SILLCOCK. WORK WILL BE INCIDENTAL TO TEMPORARY WATER.

3
14

TYPICAL
TEMPORARY WATER HOSE BIB CONNECT
SCALE: NTS

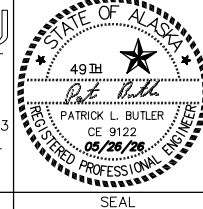
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TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC		
PROFILE	TC	JLS	CABLE TV	HDL	TC		
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC		
STORM SEWER	HDL	TC	DESIGN	TC	JLS		
WATER	TC	JLS	QUANTITIES	TC	JLS		
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT		
PLAN CHECK				REVISIONS			

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BY: _____ TITLE: _____		BY: _____ TITLE: _____	
DATE: _____		DATE: _____	
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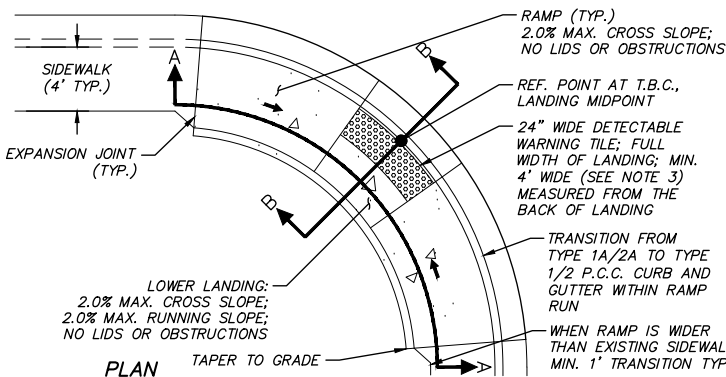


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E. 7TH LANE TO PINE WATER REHAB.			
TEMPORARY WATER LAYOUT & DETAILS			
HORIZ SCALE: 1"=50'	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 14 of 16
PROJ. ID.: WW.00016			

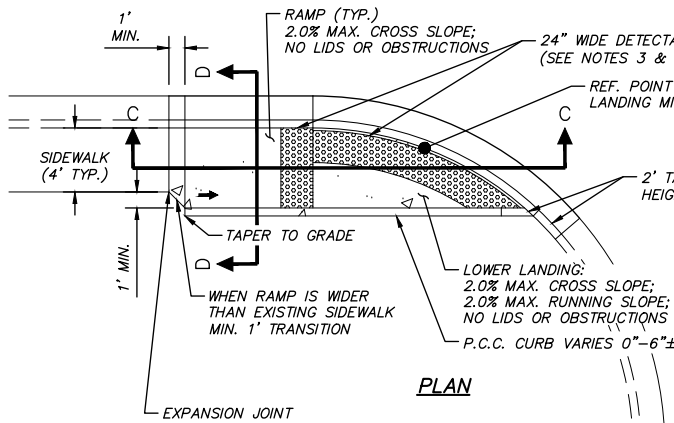
AWWU PLAN SET NO. 11020

GENERAL CURB RAMP NOTES:

1. THE CONTRACTOR SHALL CONSTRUCT THE RAMP PORTION OF THE CURB RAMP WITH A 0% MAXIMUM CROSS SLOPE WITH NO MANHOLES, UTILITY JUNCTION BOXES, OR OTHER OBSTRUCTIONS. THE MAXIMUM RUNNING SLOPE SHALL BE 8.33% BUT SHALL NOT REQUIRE THE RAMP LENGTH TO EXCEED 15 FEET MEASURED ALONG THE BACK OF THE RAMP. NO JOINTS SHALL BE PLACED WITHIN THE RAMP UNLESS NOTED OTHERWISE.
2. THE CONTRACTOR SHALL CONSTRUCT LANDINGS WITH A 2.0% MAXIMUM RUNNING SLOPE AND CROSS SLOPE WITH NO MANHOLES, UTILITY JUNCTION BOXES, OR OTHER OBSTRUCTIONS.
3. THE CONTRACTOR SHALL INSTALL DETECTABLE WARNING PANELS (D.W.) IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS AND THE DRAWINGS. SET DETECTABLE WARNING PANELS SO THAT THE FIELD AREA AT THE BASE OF THE DOMES IS FLUSH WITH THE SURROUNDING CONCRETE. NO UP IS ALLOWED AT THE EDGE OF THE DETECTABLE WARNING PANELS. D.W. SHALL BE FEDERAL YELLOW, OR APPROVED EQUAL. WHERE RADIAL D.W. ARE REQUIRED TO MEET OFFSET DIMENSIONS AND MANUFACTURED RADIAL D.W. ARE NOT AVAILABLE, CONTRACTOR SHALL CUT D.W. I.A.W. MANUFACTURER'S RECOMMENDATIONS TO PROVIDE RADIAL D.W. AS SHOWN ON THE DRAWINGS. WHERE POSSIBLE, FINISHED EDGES WILL BE PLACED ON THE OUTER BOUNDARIES OF THE D.W.
4. THE DETECTABLE WARNING PANEL SURFACE SHALL SPAN THE FULL WIDTH OF THE CURB RAMP, SHARED USE PATH, OR OTHER ROADWAY ENTRANCE, AS APPLICABLE, A GAP OF 2 INCHES MAXIMUM FROM THE EDGE OF THE DETECTABLE WARNING SURFACE TO THE EDGE OF THE CURB RAMP OR SHARED USE PATH IS PERMITTED WHEN DETECTABLE WARNING PRODUCT REQUIRES A CONCRETE BORDER FOR PROPER INSTALLATION.
5. FOR UNIDIRECTIONAL RAMP, IF LANDING LENGTH IS LESS THAN 5', CONTRACTOR SHALL INSTALL D.W. AT THE BOTTOM OF THE RAMP. IF THE LANDING LENGTH IS EQUAL TO OR GREATER THAN 5', CONTRACTOR SHALL INSTALL RADIAL DETECTABLE WARNING ALONG TOP BACK OF CURB FOR THE WIDTH OF THE LANDING. ONLY ONE OF THE DETECTABLE WARNING CONFIGURATIONS SHOWN WILL BE CONSTRUCTED.



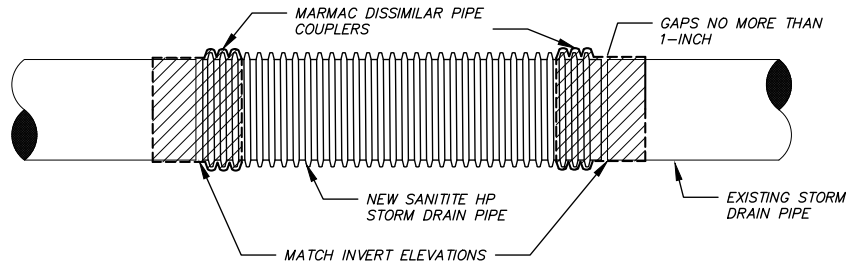
1
15
PARALLEL CURB RAMP
SCALE: NTS



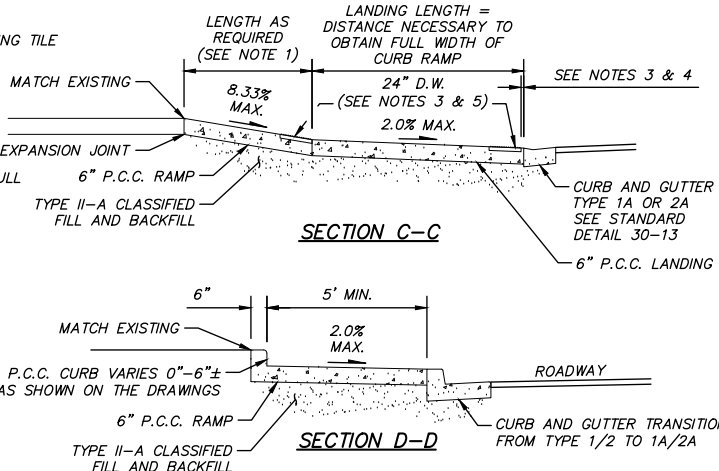
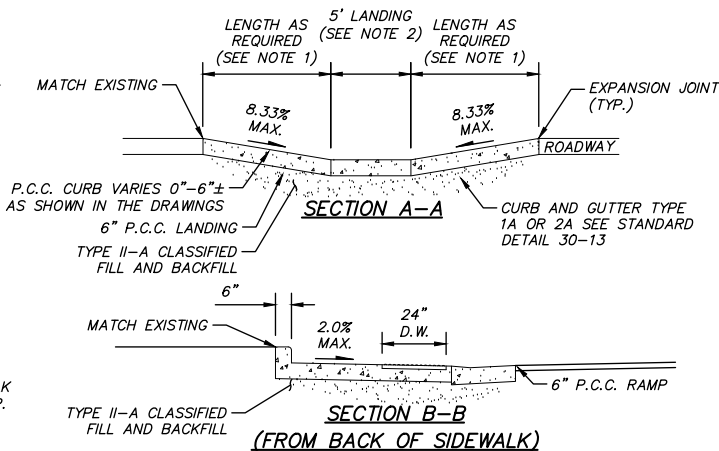
2
15
UNIDIRECTIONAL CURB RAMP
SCALE: NTS

STORM DRAIN NOTES:

1. STORM DRAIN REPAIR PIPE SHALL BE INSTALLED IN ACCORDANCE WITH MASS STANDARD DETAIL 55-1, OR AS SHOWN BELOW. PIPE SIZE AND INVERT ELEVATIONS OF REPAIR SHALL MATCH EXISTING PIPE.
2. STORM DRAIN IS TO BE BEDDED IN ACCORDANCE WITH MASS SECTION 55.02. EXISTING PERFORATED PIPE REPAIRS IS TO BE IN ACCORDANCE WITH MASS STANDARD DETAIL 55-3.
3. ANY DAMAGE TO EXISTING STORM DRAIN STRUCTURES IS TO BE REPAIRED BY CONTRACTOR AS INCIDENTAL TO CONTRACT.

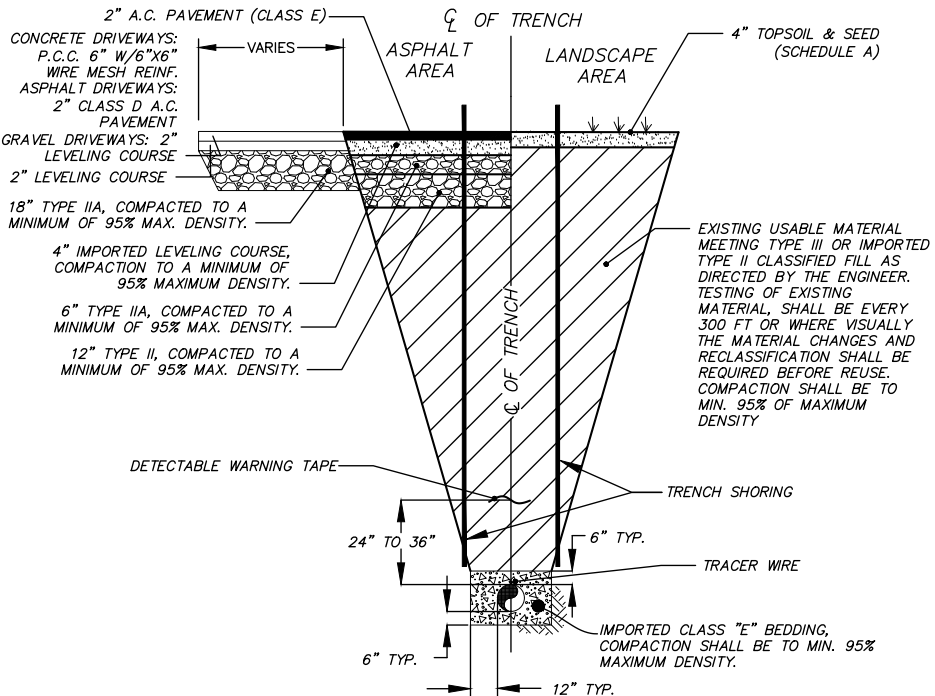


3
15
TYPICAL STORM DRAIN REPLACEMENT
SCALE: NTS



TYPICAL SECTION & TRENCH DETAIL NOTES

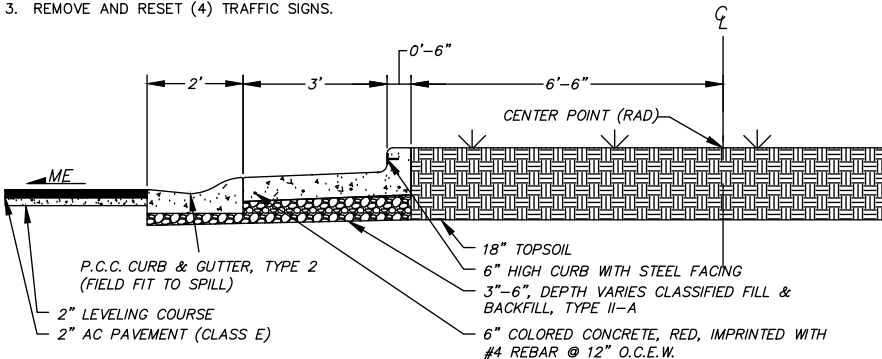
1. THE PIPE SHALL BE CONSTRUCTED AT THE LOCATION INDICATED ON THE PLANS. SURFACE IMPROVEMENTS SUCH AS STREET, CURB, FENCES, LANDSCAPING AND DRAINAGE FACILITIES SHALL BE RECONSTRUCTED TO THEIR EXISTING LOCATION AND GRADE BASED UPON THE PRE-CONSTRUCTION SURVEY, UNLESS OTHERWISE NOTED.
2. PROTECT EXISTING VEGETATION (TREES, SHRUBS, AND GRASS) TO THE GREATEST EXTENT POSSIBLE. PLACE 4" OF TOPSOIL AND SEED MIX IN DISTURBED AREAS OUTSIDE OF GRAVEL PADS, ROADWAYS, OR OTHER IMPROVED SURFACES.
3. SLOPE TRENCH WALLS ACCORDING TO THE SOIL CONDITIONS AND O.S.H.A SAFETY STANDARDS.
4. IN ORDER TO MITIGATE SUB-GRADE REWORK DO NOT REMOVE AND REPLACE ASPHALT OUTSIDE OF THE TRENCH EXCAVATION LIMITS UNTIL AFTER COMPLETION OF THE WATER MAIN INSTALLATION.
5. IN PREPARATION FOR AND IMMEDIATELY PRIOR TO ANY PAVING, THE CONTRACTOR SHALL SAW CUT AND REMOVE AN ADDITIONAL 12-INCHES BEYOND ANY DISTURBED, EXISTING PAVEMENT EDGE. THE ENGINEER MAY REQUIRE MORE THAN A 12-INCH ADDITIONAL CUT IF THE PAVEMENT HAS BEEN LIFTED IN THE REMOVAL PROCESS. CUTS SHALL BE MADE ONLY WITH A SAW, AND SHALL BE SMOOTH AND STRAIGHT. LIMITS OF ASPHALT REMOVAL & REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER. THE CONTRACTOR'S SAWCUT SHALL NOT EXTEND WEST OF THE STREET CENTER LINE EXCEPT AT INTERSECTIONS OR SERVICE CONNECT TRENCHES AS SHOWN IN THE PLANS.
6. RESTORE ROADWAY AND ADJACENT AREA TO MATCH ORIGINAL GRADES OR AS DIRECTED BY THE ENGINEER.
7. ALL BACKFILL IS TO BE PLACED IN 12-INCH LIFTS MAXIMUM, COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY.
8. RECONSTRUCT DRIVEWAYS IN ACCORDANCE WITH MASS 20.28.



TYPICAL TRENCH SECTION DETAIL
SCALE: NTS

TRAFFIC CIRCLE NOTES

1. REMOVE AND REPLACE (34) ORNAMENTAL GRASSES (CALAMAGROSTIS X ACUTIFLORA).
2. REMOVE AND REPLACE (1) 2" PRAIRIE SPIRE ASH W/MOOSE FENCE & BROWN MULCH.
3. REMOVE AND RESET (4) TRAFFIC SIGNS.



4
15
TRAFFIC CIRCLE TYPICAL SECTION
SCALE: NTS

VERIFY SCALE				THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.				IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.				FULL SIZE SCALE			
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TOPOGRAPHY	HDL	TC		ELECTRIC	HDL	TC									
PROFILE	TC	JLS		CABLE TV	HDL	TC									
SANITARY SEWER	HDL	TC		TRAFFIC SIGNAL	HDL	TC									
STORM SEWER	HDL	TC		DESIGN	TC	JLS									
WATER	TC	JLS		QUANTITIES	TC	JLS									
GAS	HDL	TC		MUN. FINAL CHECK	JLS	TRT									
PLAN CHECK				REVISIONS											

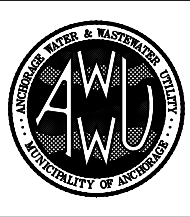
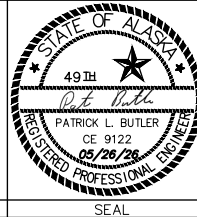
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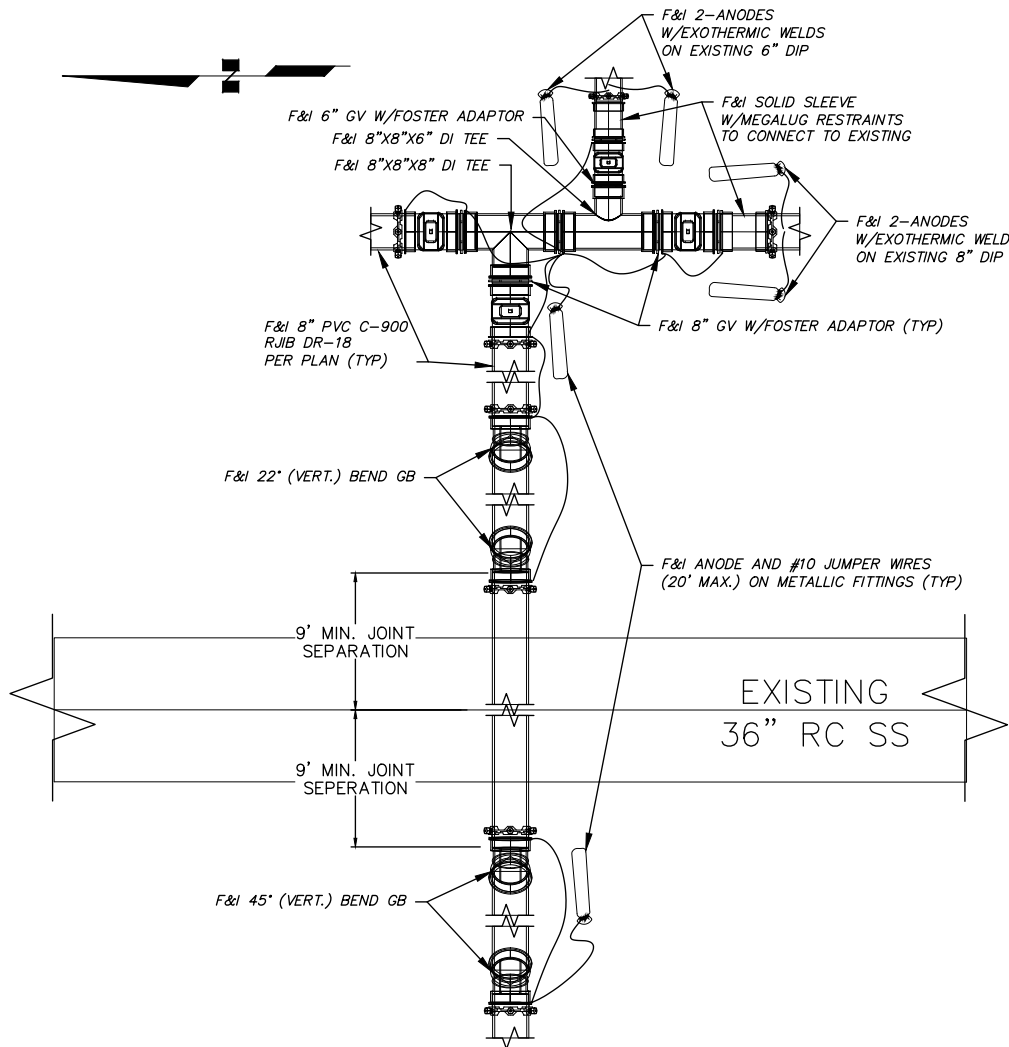


MUNICIPALITY OF ANCHORAGE
WATER & WASTEWATER UTILITY

E. 7TH LANE TO PINE WATER REHAB.

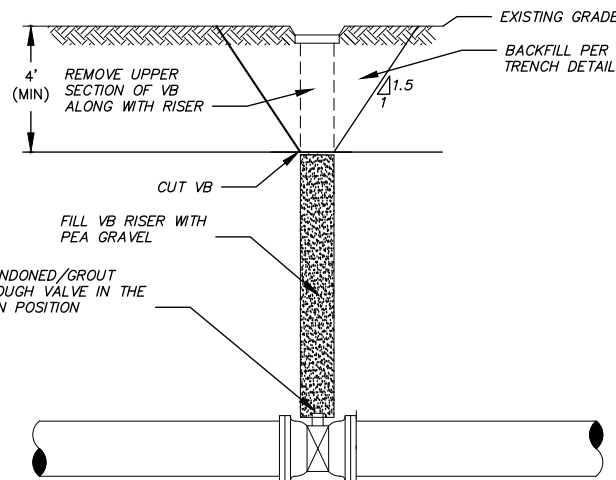
TYPICAL DETAILS

HORIZ SCALE: N/A
VERT SCALE: N/A
DATE: MAY, 2026
GRID: SW 1336/1337
PROJ. ID.: WW.00016



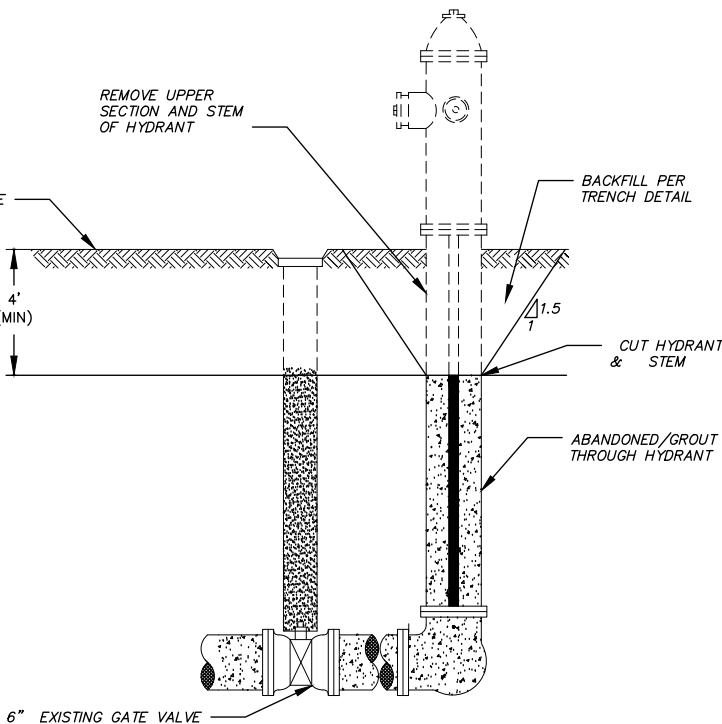
SEWER CROSSING DETAIL
7TH AVENUE AND PINE STREET

SCALE: NTS



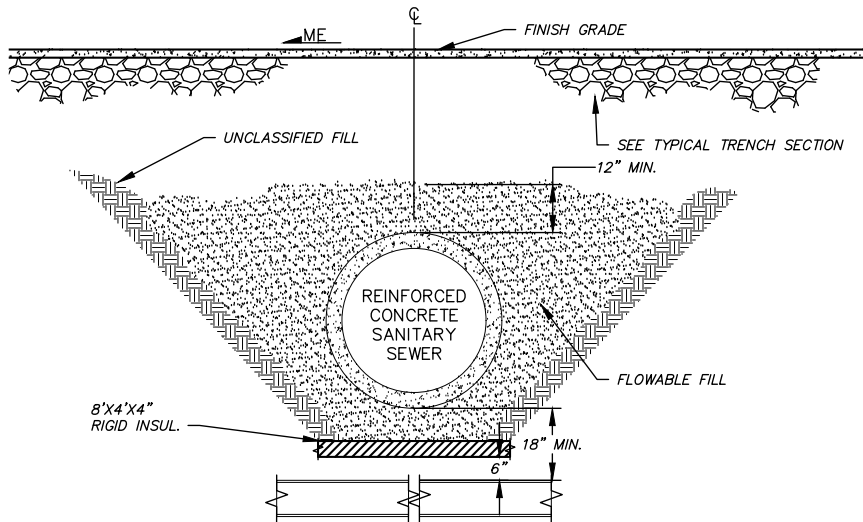
TYPICAL ABANDON G.V. AND V.B. DETAIL

SCALE: NTS



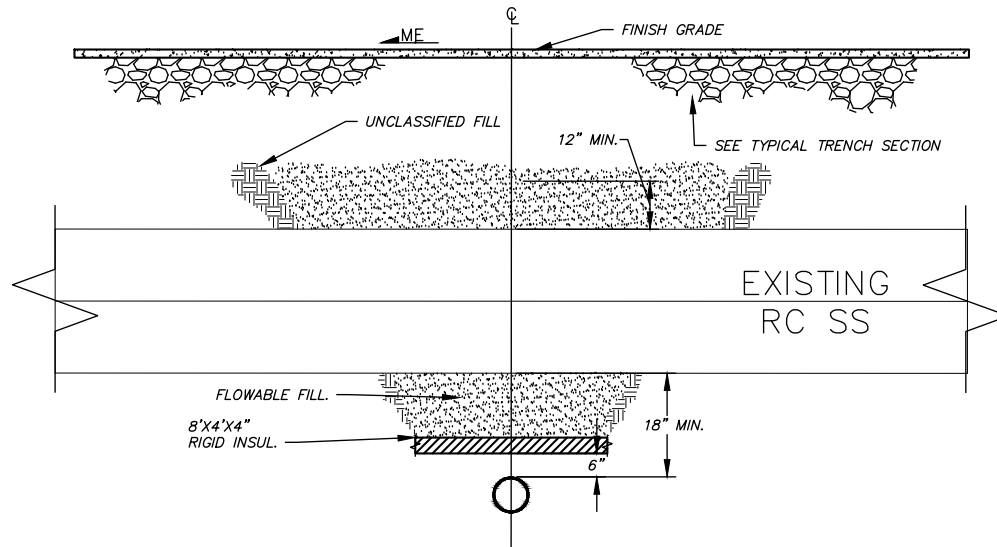
TYPICAL ABANDON HYDRANT AND LEG DETAIL

SCALE: NTS



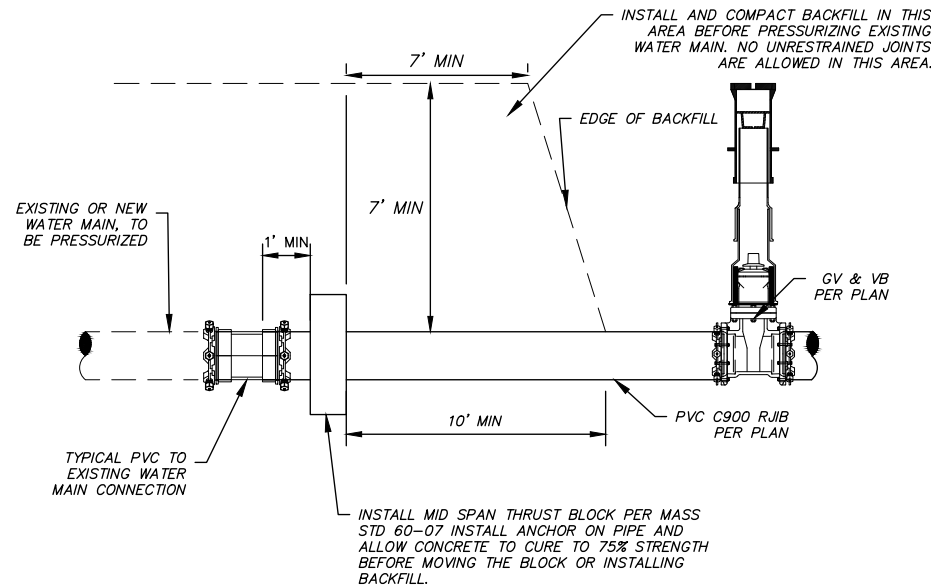
RC SS ENCASEMENT DETAIL

SCALE: NTS



MIDSPAN TRUST BLOCK ELEVATION

SCALE: NTS



VERIFY SCALE		THIS BAR REPRESENTS ONE INCH ON ORIGINAL DRAWING.		IF BAR IS NOT ONE INCH, ADJUST DRAWING SCALE ACCORDINGLY.		FULL SIZE SCALE	
DATA	DRAWN BY	CHECKED BY	DATA	DRAWN BY	CHECKED BY	REV	DATE
BASE	HDL	TC	TELEPHONE	HDL	TC		
TOPOGRAPHY	HDL	TC	ELECTRIC	HDL	TC		
PROFILE	TC	JLS	CABLE TV	HDL	TC		
SANITARY SEWER	HDL	TC	TRAFFIC SIGNAL	HDL	TC		
STORM SEWER	HDL	TC	DESIGN	TC	JLS		
WATER	TC	JLS	QUANTITIES	TC	JLS		
GAS	HDL	TC	MUN. FINAL CHECK	JLS	TRT		
PLAN CHECK				REVISIONS			

RECORD DRAWING		Note: To be filled out on original drawings upon project completion.	
1. DATA PROVIDED BY:		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.	
CONTRACTOR:		DATA TRANSFER CHECKED BY:	
BY: _____		BY: _____	
TITLE: _____		TITLE: _____	
DATE: _____		DATE: _____	
2. DATA TRANSFERRED BY:			
COMPANY: _____			
DATE: _____			

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PATRICK L. BUTLER	
CE 9122	
05/26/26	
REGISTERED PROFESSIONAL ENGINEER	
SEAL	

ANCHORAGE WATER & WASTEWATER UTILITY	
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MUNICIPALITY OF ANCHORAGE WATER & WASTEWATER UTILITY			
E. 7TH LANE TO PINE WATER REHAB.			
WATER DETAILS			
HORIZ SCALE: N/A	DATE: MAY, 2026	GRID: SW 1336/1337	SHEET 16 of 16
PROJ. ID.: WW.00016			