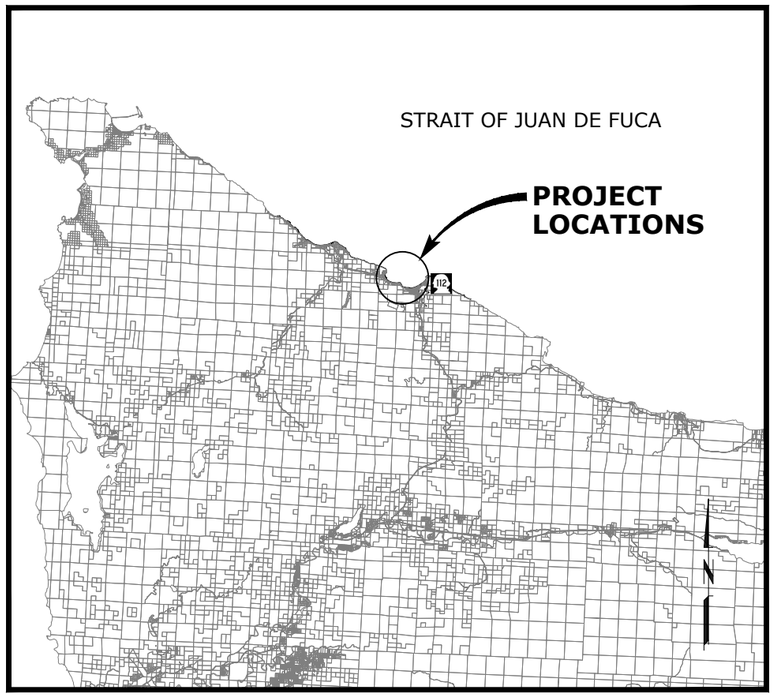
CLALLAM BAY SEKIU WATER MAIN UPGRADES

JULY 2021

60% SUBMITTAL



LOCATION MAP

SCALE: 1"=1 MILE

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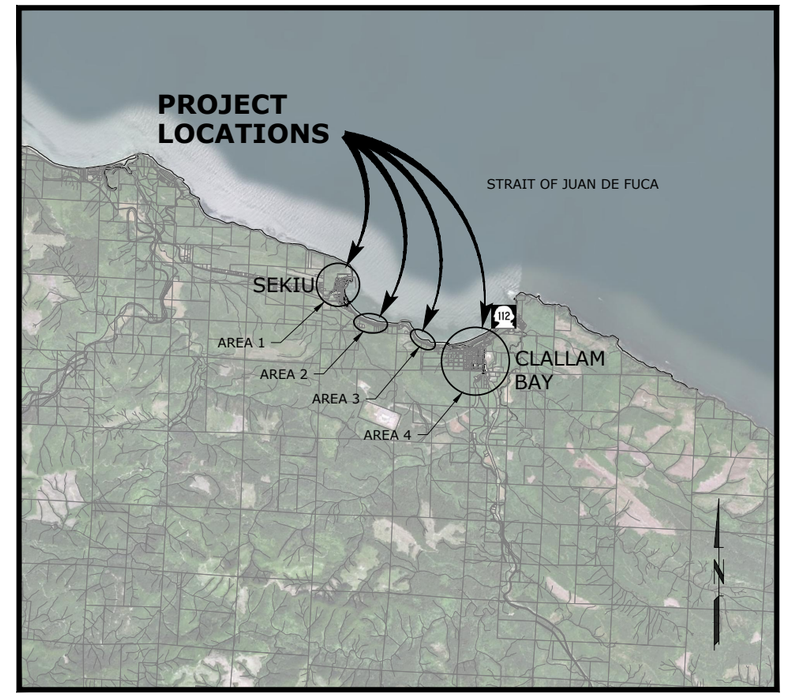

VICINITY MAP

SCALE: 1"=1500'

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Know what's **below.**
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20-2926

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GENERAL CONSTRUCTION NOTES

1. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE CLALLAM PUD GENERAL SPECIFICATIONS FOR MAIN EXTENSIONS. THE CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION (STANDARD SPECIFICATIONS), AND ANY PROJECT SPECIFIC SPECIAL PROVISIONS OR CONDITIONS AND REQUIREMENTS.
2. TEMPORARY EROSION/WATER POLLUTION MEASURES ARE REQUIRED AND SHALL COMPLY WITH CLALLAM COUNTY STANDARDS AND THE CURRENT EDITION OF THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
3. EXISTING AND NEWLY CONSTRUCTED STORMWATER DRAINAGE SYSTEMS SHALL BE PROTECTED FROM CONSTRUCTION SITE RUNOFF.
4. A PRE-CONSTRUCTION MEETING SHALL BE HELD WITH THE COUNTY PRIOR TO THE START OF CONSTRUCTION.
5. HORIZONTAL AND VERTICAL CONTROLS/DATUM AS ADOPTED BY THE COUNTY SHALL BE USED, UNLESS APPROVED OTHERWISE.
6. ALL APPROVALS AND PERMITS REQUIRED BY THE COUNTY SHALL BE OBTAINED BY THE CONTRACTOR PRIOR TO THE START OF CONSTRUCTION, UNLESS OTHERWISE APPROVED BY THE COUNTY ENGINEER.
7. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR THE LOCATION AND PROTECTION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS PRIOR TO CONSTRUCTION BY CALLING UNDERGROUND LOCATE AT 1-800-424-5555 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION WORK.
8. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR TEMPORARY TRAFFIC CONTROL. THE CONTRACTOR SHALL, BY LETTER TO THE COUNTY ENGINEER, INDICATE THAT WSDOT STANDARD "K" PLANS SHALL BE UTILIZED FOR TEMPORARY TRAFFIC CONTROL. IF THE CURRENT WSDOT STANDARD "K" PLANS ARE NOT UTILIZED, THE CONTRACTOR SHALL PROVIDE A TRAFFIC CONTROL PLAN(S) FOR REVIEW AND APPROVAL BY THE COUNTY ENGINEER IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD). THE COUNTY ENGINEER SHALL HAVE FIVE DAYS FOR REVIEW OF ANY PROPOSED TRAFFIC CONTROL PLAN. NO WORK MAY BE CONDUCTED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN.
9. THE CONTRACTOR SHALL HAVE A COPY OF THE APPROVED PLANS AT THE CONSTRUCTION SITE AT ALL TIMES.
10. SPECIAL STRUCTURES SHALL BE INSTALLED PER PLANS AND MANUFACTURER'S RECOMMENDATIONS.
11. ALL DISTURBED AREAS SHALL RECEIVE TEMPORARY AND PERMANENT EROSION CONTROL IN THE FORM OF VEGETATION ESTABLISHMENT SUCH AS GRASS SEEDING. A MEANS SHALL BE ESTABLISHED TO PROTECT THE PERMANENT STORM DRAIN SYSTEM PRIOR TO ESTABLISHMENT OF THE PERMANENT EROSION CONTROL MEASURES. THESE METHODS SHALL BE INCLUDED IN THE EROSION AND SEDIMENT CONTROL PLANS IN ACCORDANCE WITH VOLUME II CHAPTER 4 OF THE CURRENT EDITION OF THE STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON (SMMWW).
12. CONSTRUCTION WORK HOURS SHALL BE RESTRICTED TO 7AM TO 7PM PRIOR WRITTEN APPROVAL OF THE CLALLAM PUD ENGINEER SHALL BE REQUIRED FOR WORK BETWEEN 7PM AND 7AM.
13. THE COUNTY CONSTRUCTION INSPECTOR SHALL BE NOTIFIED A MINIMUM OF 24 HOURS IN ADVANCE OF THE NEED FOR AN INSPECTION.
14. TRAFFIC AND STREET SIGN SLEEVES TO BE PROVIDED BY THE COUNTY. PRIOR TO POURING CONCRETE CONTRACTOR TO CONFIRM SLEEVE LOCATIONS, IF ANY, WITH COUNTY INSPECTOR.
15. PER THE PROVISIONS OF THE CURRENT WSDOT STANDARD SPECIFICATIONS RELATED TO PUBLIC CONVENIENCE AND SAFETY, THE CONTRACTOR SHALL MAINTAIN READY ACCESS TO DRIVEWAYS, HOUSES, AND BUILDINGS ALONG THE LINE OF WORK.
16. A MINIMUM OF ONE WAY TRAVEL THROUGH THE PROJECT AREA SHALL BE MAINTAINED AT ALL TIMES.
17. SHOULD ACCESS TO A PROPERTY ADJOINING THE PROJECT REQUIRE TEMPORARY CLOSURE ANTICIPATED TO HAVE A DURATION EXCEEDING 15 MINUTES, THE CONTRACTOR SHALL COORDINATE THE TEMPORARY CLOSURE WITH THE PROPERTY OWNER/RESIDENT. A MINIMUM OF 24 HOURS ADVANCE NOTIFICATION SHALL BE PROVIDED TO THE PROPERTY OWNER/RESIDENT PRIOR TO ANY SUCH TEMPORARY CLOSURE.
18. THE LOCATIONS OF EXISTING UTILITIES AND SITE FEATURES SHOWN HERON HAVE BEEN FURNISHED BY OTHERS BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND PROTECT ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATION, DEPTH, SIZE, TYPE AND CONDITION OF EXISTING UTILITY LINES AT CONNECTION OR CROSSING POINTS BEFORE TRENCHING FOR NEW UTILITIES AND IF NECESSARY ADJUST PROPOSED UTILITY ACCORDINGLY. ENGINEER ASSUMES NO RESPONSIBILITY FOR THE COMPLETENESS OR ACCURACY OF THE EXISTING UTILITIES AND SITE FEATURES PRESENTED ON THESE DRAWINGS. ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF CONFLICTS THAT ARISE.

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NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
IF THIS BAR DOES NOT MEASURE 1" THEN DRAWING IS NOT TO SCALE

DLT DESIGNED
BAW DRAWN
JAM CHECKED

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CLALLAM COUNTY PUD Bringing Energy To Life

CLALLAM BAY SEKIU WATER MAIN UPGRADES

GENERAL NOTES

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: July 2021

SHEET
G-2
X of X

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PIPE & FITTING SYMBOLS

PLANT	SCHEMATIC	
		WELDED JOINT
		FLANGED JOINT
		GROOVED END JOINT
		MECHANICAL JOINT
		PUSH-ON JOINT (RUBBER GASKET)
		FLANGED COUPLING ADAPTER
		DOUBLE BALL FLEXIBLE EXTENSION COUPLING
		FLEXIBLE COUPLING W/ THRUST RING
		90° BEND UP
		90° BEND DOWN
		TEE UP
		TEE DOWN
		LATERAL UP
		LATERAL DOWN
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		UNION
		BLIND FLANGE
		CAP
		LONG SLEEVE
		FLEXIBLE COUPLING
		FITTING (45°)

VALVE SYMBOLS

PLANT	SCHEMATIC	
		BUTTERFLY VALVE
		GATE VALVE
		GLOBE VALVE
		BALL VALVE
		BALANCING VALVE
		PLUG VALVE (TOP)
		PLUG VALVE (SIDE)
		3-WAY PLUG VALVE
		CHECK VALVE
		SWING CHECK VALVE
		DOUBLE CHECK ASSEMBLY
		BALL SWING CHECK
		SILENT CHECK VALVE
		PRESSURE REDUCING VALVE
		ALTITUDE CONTROL VALVE
		SOLENOID VALVE
		RELIEF VALVE
		NEEDLE VALVE
		HOSE VALVE
		REDUCED PRESSURE BACKFLOW PREVENTER W/ GATE VALVES
		HOSE BIBB

TOPOGRAPHIC LEGEND

	EXISTING	PROPOSED
WATERLINE	10"W	12"DI W
ELECTRICITY	E	E
GAS	4"G	4"G
TELEPHONE/TELEMETRY	T	T
CABLE TELEVISION	CATV	CATV
SANITARY SEWER LINE	8"SS	8"SS
SANITARY SEWER FORCE MAIN	6"FM	6"FM
STORM DRAIN	8"SD	8"SD
CULVERT		18"D
ABANDON PIPE		
DRAINAGE DITCH		
BARBWIRE FENCE		
CHAIN LINK FENCE		
TEMPORARY SILT FENCE		
GUARDRAIL		
ROCK WALL		
TREE/BUSH LINE		
CENTERLINE		
EASEMENT/PROPERTY LINE		
RIGHT-OF-WAY		
EDGE OF PAVEMENT/AC		
EDGE OF GRAVEL		
CURB		
SIDEWALK	S/W	
STRUCTURE OR FACILITY		
CONTOUR MINOR		
CONTOUR MAJOR	200	200

	EXISTING	PROPOSED
MANHOLE		
CLEAN-OUT		
CATCH BASIN/FIELD INLET		
THRUST BLOCK		
VALVE		
AIR INJECTION ASSEMBLY		
BLOW-OFF ASSEMBLY		
AIR RELEASE ASSEMBLY		
FIRE HYDRANT ASSEMBLY		
WATER METER		
PULL BOX/JUNCTION BOX		
UTILITY POLE		
GUY WIRE		
LIGHT POST		
MAILBOX		
SIGN		
BENCHMARK		
TREE DECIDUOUS		
TREE CONIFEROUS		
TREE TO BE REMOVED		
SURFACE ELEVATION	+ 176.63	+ 176.63

SECTION AND DETAIL DESIGNATIONS

SECTION DESIGNATIONS

SECTION LETTER DESIGNATION

A

2

SHEET WHERE SECTION IS SHOWN *

SECTION

SCALE:

SECTION LETTER DESIGNATION

A

2

SHEET FROM WHICH SECTION IS TAKEN *

DETAIL DESIGNATIONS

DETAIL

SCALE:

DETAIL NUMBER

2

2

SHEET FROM WHICH DETAIL IS TAKEN *

* NOTE: IF PLAN AND SECTION FOR DETAIL CALL-OUT AND DETAIL ARE SHOWN ON THE SAME DRAWING, DRAWING NUMBER IS REPLACED WITH A DASH.

MISCELLANEOUS PIPING SYMBOLS

- STRAINER
- SIGHT GLASS
- PRESSURE GAUGE W/ COCK
- PRESSURE SWITCH W/ COCK
- M — METER
- SP — SLIP-ON JOINT PIPE
- R — RESTRAINED JOINT PIPE

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GENERAL SYMBOLS AND LEGEND

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: July 2021

SHEET

G-3

X of X

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@	AT
AASHTO	AMERICAN ASSOCIATION OF STATE HIGHWAY & TRANSPORTATION OFFICIALS
AB	ANCHOR BOLT
ABAN(D)	ABANDON(ED)
ABS	ACRYLONITRILE BUTADIENE STYRENE
ABV	ABOVE / ALCOHOL BY VOLUME
AC	ASPHALTIC CONCRETE
ACP	ASPHALTIC CONCRETE PAVING
ADJ	ADJUSTABLE
ADJC	ADJACENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AHR	ANCHOR
AL	ALUMINUM
ALT	ALTERNATE
AMP	AMPERE
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
APPROX	APPROXIMATE
APPVD	APPROVED
APWA	AMERICAN PUBLIC WORKS ASSOCIATION
ARCH	ARCHITECTURAL
ARV	AIR RELEASE VALVE
ASCE	AMERICAN SOCIETY OF CIVIL ENGINEERS
ASSN	ASSOCIATION
ASSY	ASSEMBLY
ASTM	AMERICAN SOCIETY FOR TESTING & MATERIALS
ATM	ATMOSPHERE
AUTO	AUTOMATIC
AUX	AUXILIARY
AVE	AVENUE
AVG	AVERAGE
AWWA	AMERICAN WATER WORKS ASSOCIATION
B&S	BELL & SPIGOT
BC	BOLT CIRCLE
BD	BOARD
BETW	BETWEEN
BF	BOTH FACE
BFD	BACKFLOW PREVENTION DEVICE
BFILL	BACKFILL
BFV	BUTTERFLY VALVE
BHP	BRAKE HORSEPOWER
BKGD	BACKGROUND
BLDG	BUILDING
BLK	BLOCK
BLVD	BOULEVARD
BM	BENCHMARK / BEAM
BMP	BEST MANAGEMENT PRACTICES
BO	BLOW-OFF
BOC	BACK OF CURB
BS	BOTH SIDES
BSMT	BASEMENT
BTF	BOTTOM FACE
BTU	BRITISH THERMAL UNIT
BV	BALL VALVE
BW	BOTH WAYS
C	CELSIUS
C TO C	CENTER TO CENTER
CALTRANS	CALIFORNIA DEPARTMENT OF TRANSPORTATION
CARV	COMBINATION AIR RELEASE VALVE
CATV	CABLE TELEVISION
CB	CATCH BASIN
CCP	CONCRETE CYLINDER PIPE
CCW	COUNTER CLOCKWISE
CDOT	COLORADO DEPARTMENT OF TRANSPORTATION
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CHAN	CHANNEL
CHEM	CHEMICAL
CHFR	CHAMFER
CHKV	CHECK VALVE
CI	CAST IRON
CIP	CAST IRON PIPE
CIPC	CAST IN PLACE CONCRETE
CISP	CAST IRON SOIL PIPE
CJ	CONSTRUCTION JOINT
CL OR C/L	CENTER LINE
CL2	CHLORINE
CLG	CEILING
CLJ	CONTROL JOINT
CLR	CLEAR
CLSM	CONTROLLED LOW STRENGTH MATERIAL
CMP	CORRUGATED METAL PIPE
CMU	CONCRETE MASONRY UNIT
CND	CONDUIT
CO	CLEANOUT
COL	COLUMN
COMB	COMBINATION
CONC	CONCRETE
CONN	CONNECTION
CONST	CONSTRUCTION
CONT	CONTINUOUS / CONTINUATION
CONTR	CONTRACT(OR)
COORD	COORDINATE
COP	COPPER
CORP	CORPORATION
CORR	CORRUGATED
CP	CONTROL POINT
CPLG	COUPLING
CPVC	CHLORINATED POLYVINYL CHLORIDE
CR	CRUSHED ROCK
CS	COMBINED SEWER
CSP	CONCRETE SEWER PIPE
CT	COURT
CTR	CENTER
CU	CUBIC
CULV	CULVERT
CV	CONTROL VALVE
CW	CLOCKWISE / COLD WATER
CY	CUBIC YARDS
CYL	CYLINDER LOCK
D	DRAIN
DC	DIRECT CURRENT
DEFL	DEFLECTION
DEQ	DEPARTMENT OF ENVIRONMENTAL QUALITY
DET	DETAIL
DI	DUCTILE IRON
DIA	DIAMETER
DIM	DIMENSION
DIR	DIRECTION
DIST	DISTANCE
DN	DOWN
DR	DRIVE
DS	DOWNSPOUT
DWG	DRAWING
DWL	DOWEL
DWV	DRAIN WASTE AND VENT
DWY	DRIVEWAY
E / ELEC	ELECTRICAL
EA	EACH
ECC	ECCENTRIC
EF	EACH FACE
EL	ELEVATION
ELB	ELBOW
ENCL	ENCLOSURE
EOP	EDGE OF PAVEMENT
EQ	EQUAL
EQL SP	EQUALLY SPACED
EQUIP	EQUIPMENT
ESMT	EASEMENT
EW	EACH WAY
EXC	EXCAVATE
EXIST	EXISTING
EXP	EXPANSION
EXP BT	EXPANSION BOLT
EXP JT	EXPANSION JOINT
EXT	EXTERIOR
F	FAHRENHEIT
F TO F	FACE TO FACE
FAB	FABRICATE
FB	FLAT BAR
FCA	FLANGED COUPLING ADAPTER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FDN	FOUNDATION
FEXT	FIRE EXTINGUISHER
FF	FAR FACE
FGL	FIBERGLASS
FH	FIRE HYDRANT
FIN	FINISH(ED)
FIPT	FEMALE IRON PIPE THREAD
FITG	FITTING
FL	FLOOR LINE
FLEX	FLEXIBLE
FLG	FLANGE
FLL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
FO	FIBER OPTIC
FOC	FACE OF CONCRETE
FOF	FACE OF FINISH
FOM	FACE OF MASONRY
FOS	FACE OF STUDS
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FRP	FIBERGLASS REINFORCED PLASTIC
FT	FEET / FOOT
FTG	FOOTING
FUT	FUTURE
FXTR	FIXTURE
G	GAS
GA	GAUGE
GAL	GALLON
GALV	GALVANIZED
GC	GROOVED COUPLING
GFA	GROOVED FLANGE ADAPTER
GI	GALVANIZED IRON
GIP	GALVANIZED IRON PIPE
GJ	GRIP JOINT
GL	GLASS
GLV	GLOBE VALVE
GND	GROUND
GPD	GALLONS PER DAY
GPH	GALLONS PER HOUR
GPM	GALLONS PER MINUTE
GPS	GALLONS PER SECOND
GR	GRADE
GR LN	GRADE LINE
GRTG	GRATING
GV	GATE VALVE
GRVL	GRAVEL
GYP	GYPSUM
HB	HOSE BIBB
HC	HOLLOW CORE
HDPE	HIGH DENSITY POLYETHYLENE
HDR	HEADER
HDWE	HARDWARE
HGR	HANGER
HGT	HEIGHT
HH	HANDHOLD
HM	HOLLOW METAL
HMAC	HOT MIX ASPHALT CONCRETE
HNDRL	HANDRAIL
HOA	HAND-OFF-AUTO
HOR	HAND-OFF-REMOTE
HORIZ	HORIZONTAL
HP	HIGH PRESSURE / HORSEPOWER
HPG	HIGH PRESSURE GAS
HPT	HIGH POINT
HR	HOUR
HSB	HIGH STRENGTH BOLT
HV	HOSE VALVE
HVAC	HEATING, VENTILATION, AIR CONDITIONING
HWL	HIGH WATER LINE
HWY	HIGHWAY
HYD	HYDRANT
HYDR	HYDRAULIC
I&C	INSTRUMENTATION & CONTROL
IAW	IN ACCORDANCE WITH
ID	INSIDE DIAMETER
IE	INVERT ELEVATION
IF	INSIDE FACE
IMPVT	IMPROVEMENT
IN	INCH
INCC	INCLUDE(D)(ING)
INFL	INFLUENT
INJ	INJECTION
INSTL	INSTALLATION / INSTALL
INSUL	INSULATION
INTER	INTERCEPTOR
INTR	INTERIOR
INV	INVERT
IP	IRON PIPE
IPT	IRON PIPE THREAD
IR	IRON ROD
IRRIG	IRRIGATION
ITD	IDAHO TRANSPORTATION DEPARTMENT
JT	JOINT
JUNC	JUNCTION
KPL	KICK PLATE
KVA	KILOVOLT AMPERE
KW	KILOWATT
KWY	KEYWAY
L	LENGTH
LAB	LABORATORY
LAV	LAVATORY
LB	POUND
LF	LINEAR FOOT
LIN	LINEAL
LN	LANE
LOC	LOCATION
LONG	LONGITUDINAL
LP	LOW PRESSURE
LPT	LOW POINT
LRG	LARGE
LS	LONG SLEEVE / LUMP SUM
LT	LEFT
LVL	LEVEL
LWL	LOW WATER LINE
MAN	MANUAL
MAT	MATERIAL
MAX	MAXIMUM
MCC	MOTOR CONTROL CENTER
MCP	MASTER CONTROL PANEL
MECH	MECHANICAL
MET	METAL
MFR	MANUFACTURER
MGD	MILLION GALLONS PER DAY
MH	MANHOLE
MIN	MINIMUM
MIPT	MALE IRON PIPE THREAD
MISC	MISCELLANEOUS
MJ	MECHANICAL JOINT
MON	MONUMENT / MONOLITHIC
MOT	MOTOR
MP	MILEPOST
MSL	MEAN SEAL LEVEL
MTD	MOUNTED
NA	NOT APPLICABLE
NAVD	NORTH AMERICAN VERTICAL DATUM
NC	NORMALLY CLOSED
NF	NEAR FACE
NIC	NOT IN CONTRACT
NO / NO.	NORMALLY OPEN / NUMBER
NOM	NOMINAL
NORM	NORMAL
NRS	NON-RISING STEM
NTS	NOT TO SCALE
O TO O	OUT TO OUT
OAR	OREGON ADMINISTRATIVE RULES
OC	ON CENTER
OD	OUTSIDE DIAMETER
ODOT	OREGON DEPARTMENT OF TRANSPORTATION
OF	OVERFLOW / OUTSIDE FACE
OPNG	OPENING
OPP	OPPOSITE
ORIG	ORIGINAL
OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
OVHD	OVERHEAD
P&ID	PROCESS & INSTRUMENTATION DIAGRAM
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVE
PCVC	POINT OF CURVATURE ON VERTICAL CURVE
PE	PLAIN END
PERF	PERFORATED
PERM	PERMANENT
PERP	PERPENDICULAR
PG	PRESSURE GAUGE
PH	PIPE HANGER
PI	POINT OF INTERSECTION
PIVC	POINT OF INTERSECTION ON VERTICAL CURVE
PL OR P/L	PROPERTY LINE / PLATE / PLASTIC
PLBG	PLUMBING
PNL	PANEL
POC	POINT OF CURVATURE
POLY	POLYETHYLENE
PP	POWER POLE
PRC	POINT OF REVERSE CURVATURE
PRCST	PRECAST
PREP	PREPARATION
PRESS	PRESSURE
PRKG	PARKING
PROP	PROPERTY
PRV	PRESSURE REDUCING VALVE
PS	PUMP STATION
PSIG	POUNDS PER SQUARE INCH GAUGE
PSL	PIPE SLEEVE
PSPT	PIPE SUPPORT
PT	POINT OF TANGENCY
PTVC	POINT OF TANGENCY ON VERTICAL CURVE
PV	PLUG VALVE
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT
PWR	POWER
QTY	QUANTITY
RAD	RADIUS
RC	REINFORCED CONCRETE
RCP	REINFORCED CONCRETE PIPE
RD	ROAD / ROOF DRAIN
RDCR	REDUCER
REF	REFERENCE
REINF	REINFORCE(D)(ING)(MENT)
REQ'D	REQUIRED
RESTR	RESTRAINED
RFCA	RESTRAINED FLANGE COUPLING ADAPTER
RM	ROOM
RND	ROUND
RO	ROUGH OPENING
R/W	RIGHT-OF-WAY
RPBPD	REDUCED PRESSURE BACKFLOW PREVENTION DEVICE
RPM	REVOLUTIONS PER MINUTE
RR	RAILROAD
RST	REINFORCED STEEL
RT	RIGHT
SALV	SALVAGE
SAN	SANITARY
SC	SOLID CORE
SCHED	SCHEDULE
SD	STORM DRAIN
SDL	SADDLE
SDR	STANDARD DIMENSION RATIO
SECT	SECTION
SHLDR	SHOULDER
SHT	SHEET
SIM	SIMILAR
SLP	SLOPE
SLV	SLEEVE
SOLN	SOLUTION
SP	SOIL PIPE / SEWER PIPE
SPCL	SPECIAL
SPEC(S)	SPECIFICATION(S)
SPG	SPACING
SPL	SPOOL
SPRT	SUPPORT
SQ	SQUARE
SQ FT	SQUARE FOOT
SQ IN	SQUARE INCH
SQ YD	SQUARE YARD
SS	SANITARY SEWER
SST	STAINLESS STEEL
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STOR	STORAGE
STR	STRAIGHT
STRUCT	STRUCTURE / STRUCTURAL
SUBMG	SUBMERGED
SUCT	SUCTION
SV	SOLENOID VALVE
S/W	SIDEWALK
SWD	SIDEWATER DEPTH
SWGR	SWITCH GEAR
SYMM	SYMMETRICAL
SYS	SYSTEM
T OR TEL	TELEPHONE
T&B	TOP & BOTTOM
TAN	TANGENCY
TB	THRUST BLOCK
TBM	TEMPORARY BENCHMARK
TC	TOP OF CONCRETE / TOP OF CURB
TCE	TEMPORARY CONSTRUCTION EASEMENT
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE / TEMPORARY
T&G	TONGUE & GROOVE
THK	THICK / THICKNESS
THRD	THREAD (ED)
THRU	THROUGH
TP	TEST PIT / TOP OF PAVEMENT / TURNING POINT
TRANS	TRANSITION
TSP	TRI-SODIUM PHOSPHATE
TST	TOP OF STEEL
TW	TOP OF WALL
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UN	UNION
UON	UNLESS OTHERWISE NOTED
USGS	UNITED STATES GEOLOGIC SURVEY
V	VENT / VOLT
VAC	VACUUM
VB	VACUUM BREAKER
VBOX	VALVE BOX
VC	VERTICAL CURVE
VERT	VERTICAL
VFD	VARIABLE FREQUENCY DRIVE
VOL	VOLUME
VCP	VITRIFIED CLAY PIPE
VTR	VENT THROUGH ROOF
W	WATER
W/	WITH
W/IN	WITHIN
W/O	WITHOUT
W/W	WALL TO WALL
WD	WOOD
WF	WIDE FLANGE
WH	WATER HEATER
WI	WROUGHT IRON
WM	WATER METER
WP	WORKING POINT / WATERPROOFING
WS	WATER SERVICE
WSDOT	WASHINGTON STATE DEPARTMENT OF TRANSPORTATION
WT	WEIGHT
WTP	WATER TREATMENT PLANT
WTRT	WATERTIGHT
WWF	WELDED WIRE FABRIC
WWTF	WASTEWATER TREATMENT FACILITY
WWTP	WASTEWATER TREATMENT PLANT
X SECT	CROSS SECTION
XFMR	TRANSFORMER
YD	YARD DRAIN / YARD
YH	YARD HYDRANT
YR	YEAR
ZN	ZINC

60% SUBMITTAL

NO.	DATE	BY	REVISION

NOTICE

0 ½ 1

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CLALLAM COUNTY PUD
Bringing Energy To Life

CLALLAM BAY SEKIU WATER MAIN UPGRADES

GENERAL ABBREVIATIONS

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: July 2021

SHEET G-4

X of X

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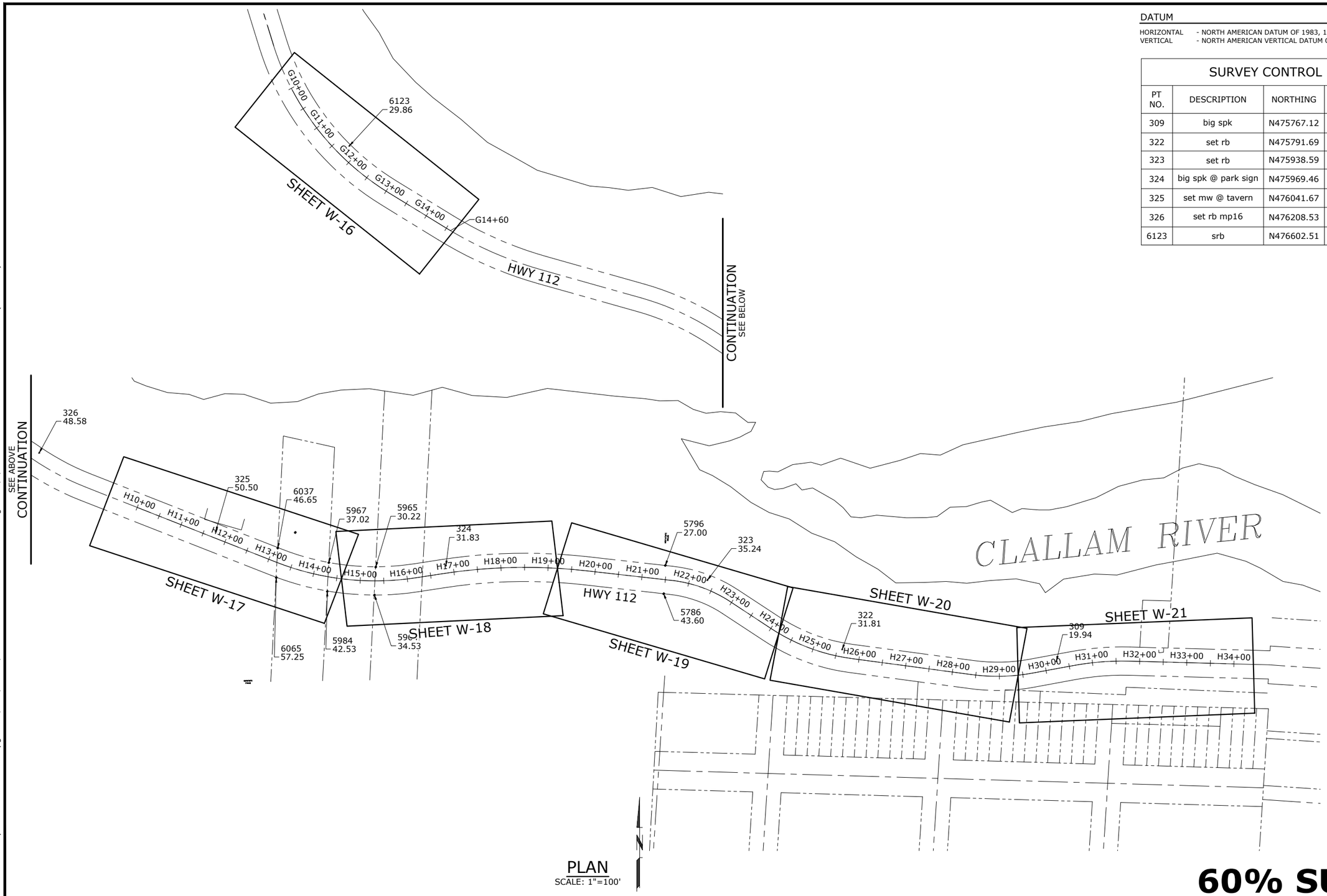
DATUM

HORIZONTAL - NORTH AMERICAN DATUM OF 1983, 1991 ADJUSTMENT, NAD 83(91)
VERTICAL - NORTH AMERICAN VERTICAL DATUM OF 1988, NAVD 88

SURVEY CONTROL POINTS

PT NO.	DESCRIPTION	NORTHING	EASTING	ELEVATION
309	big spk	N475767.12	E804115.22	19.94
322	set rb	N475791.69	E803660.96	31.81
323	set rb	N475938.59	E803375.10	35.24
324	big spk @ park sign	N475969.46	E802820.60	31.83
325	set mw @ tavern	N476041.67	E802332.44	50.50
326	set rb mp16	N476208.53	E801958.12	48.58
6123	srb	N476602.51	E801148.69	29.86



PLAN
SCALE: 1"=100'

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CLALLAM BAY SEKIU WATER MAIN UPGRADES

GENERAL HORIZONTAL & VERTICAL CONTROL AREA 3

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: July 2021

SHEET
G-7
X of X

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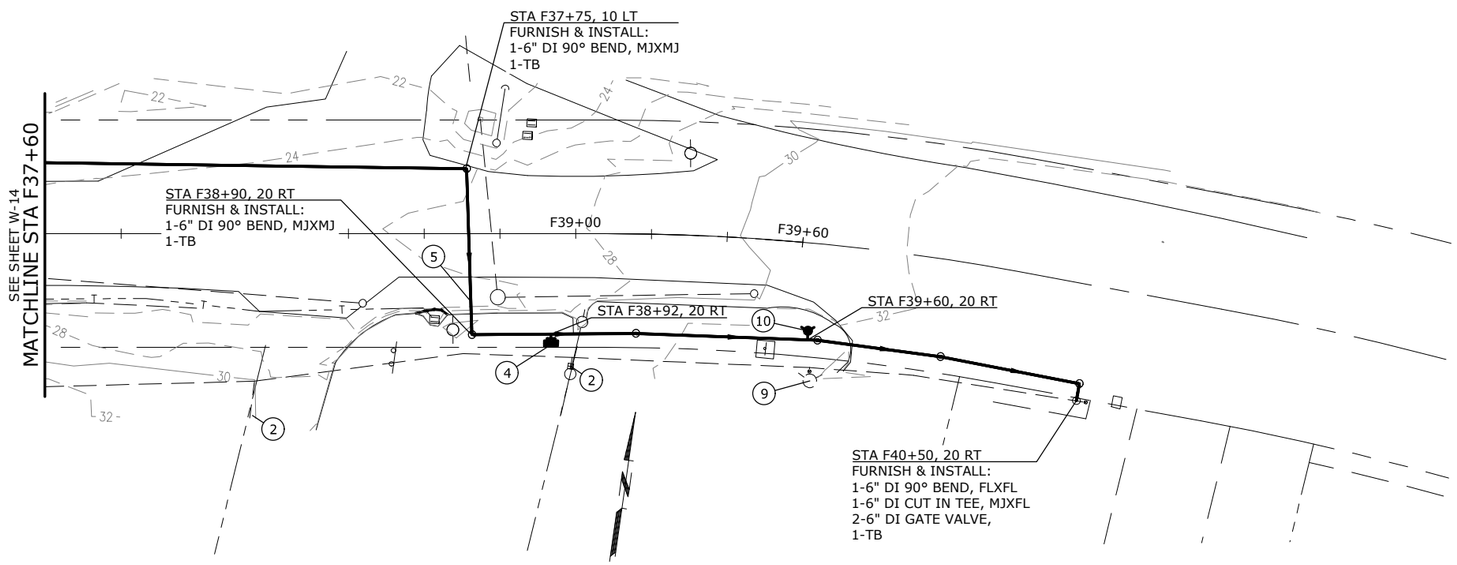
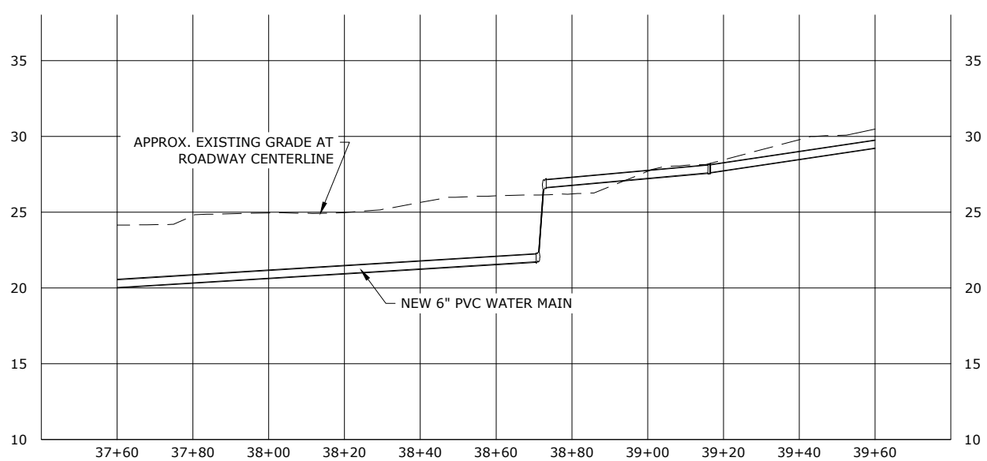


PLAN

SCALE: 1"=20'

PROPOSED WATERMAIN SIZE WILL BE INCREASED FROM 6" TO 8" IN NEXT DELIVERABLE



PROFILE

SCALE: 1"=20' HORIZ, 1"=10' VERT

CONSTRUCTION NOTES:

2. REMOVE METER/VALVE BOX & ABANDON EXISTING SERVICE LINE.

4. INSTALL:
NEW 1 IN. DUAL SERVICE METER INSTALLATION PER CLALLAM COUNTY PUD STANDARD DETAIL

5. PROTECT EXISTING SS, MAINTAIN MINIMUM VERTICAL SEPARATION OF 18" MEASURED EDGE-TO-EDGE.

9. REMOVE HYDRANT AND HYDRANT VALVE PER WSDOT STD SPEC 7-14.

10. INSTALL:
NEW FIRE HYDRANT ASSEMBLY, INCLUDING VALVE AND VALVE BOX, AND CONNECT TO MAIN PER CLALLAM COUNTY PUD STANDARD DETAIL

60% SUBMITTAL

NO.	DATE	BY	REVISION

NOTICE
0 ½ 1
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CLALLAM BAY SEKIU WATER MAIN UPGRADES

WATER PLAN & PROFILE
HWY 112: FALLS CREEK BRIDGE TO BREAKWATER

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: APRIL 2021

SHEET W-15
X of X

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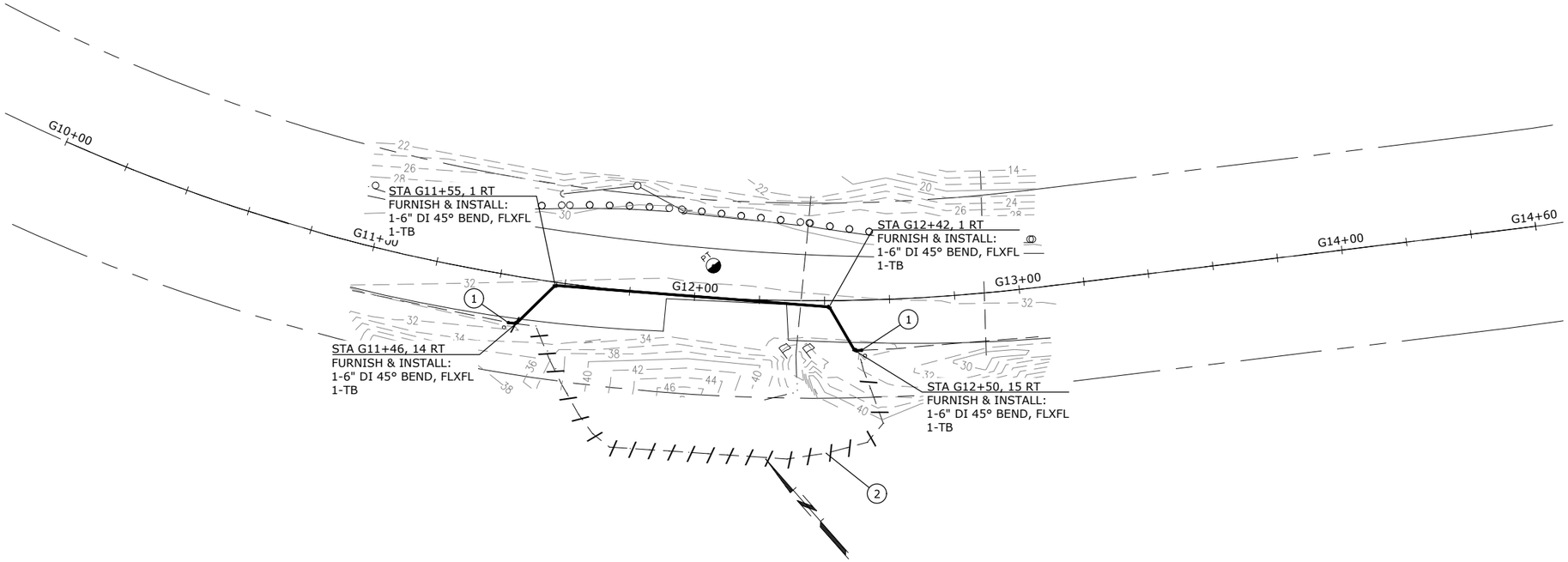


PLAN

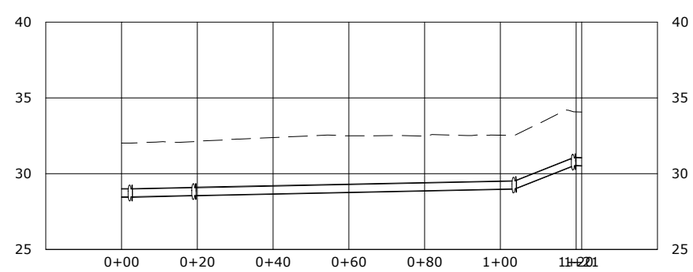
SCALE: 1"=20'

CONSTRUCTION NOTES:

1. CONNECT NEW 6" HDPE TO EXISTING VALVES ON EACH END.

2. DISCONNECT AND DISPOSE OF EXISTING ABOVE GROUND 4" HDPE PIPE.

PROPOSED WATERMAIN SIZE WILL BE INCREASED FROM 6" TO 8" IN NEXT DELIVERABLE



PROFILE

SCALE: 1"=20' HORIZ, 1"=10' VERT

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NOTICE
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CLALLAM BAY SEKIU WATER MAIN UPGRADES

WATER PLAN & PROFILE
HWY 112: BYPASS

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: APRIL 2021

SHEET
W-16
X of X

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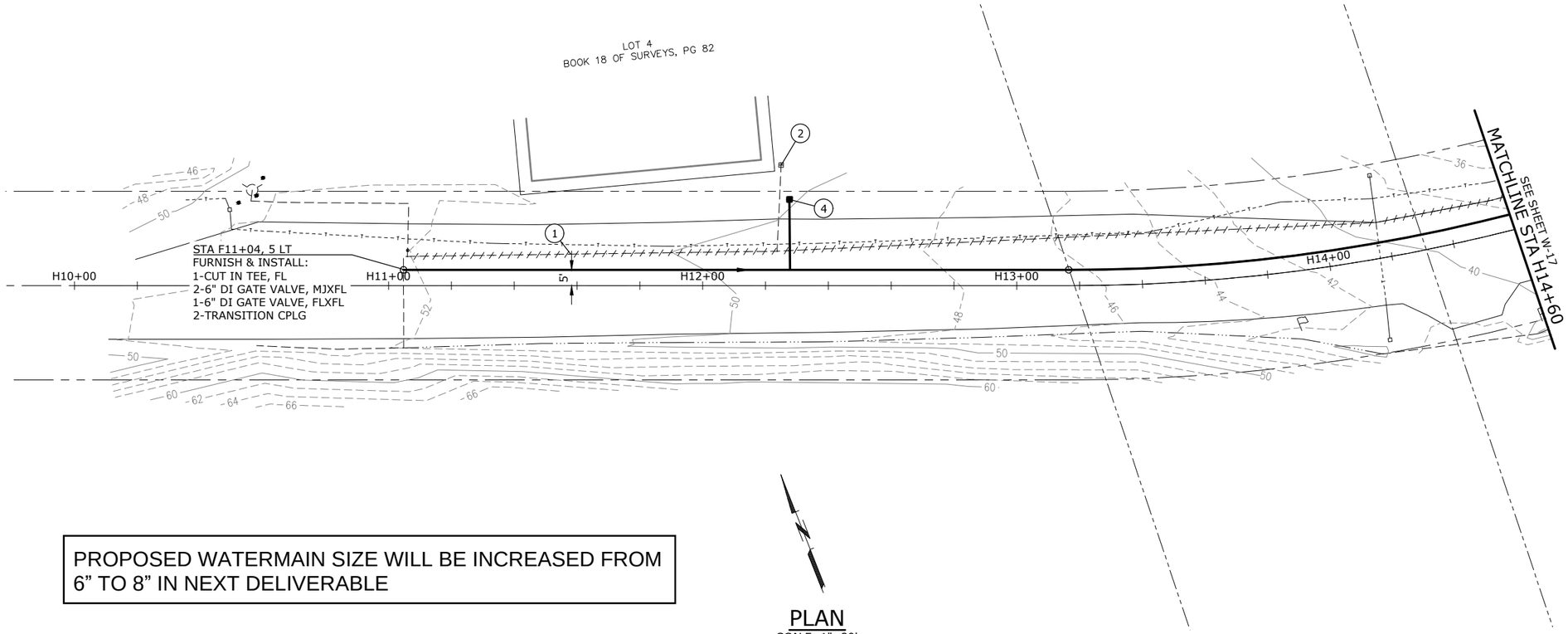
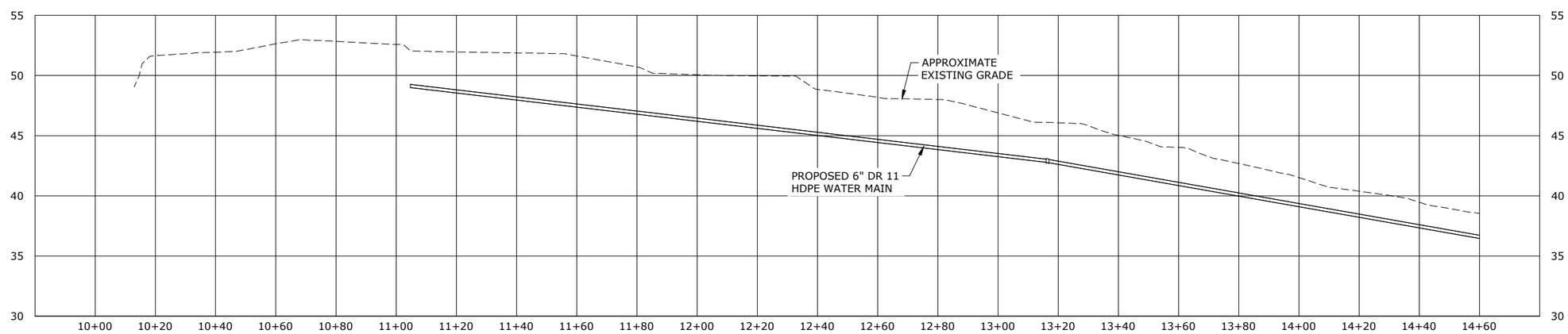


CONSTRUCTION NOTES:

1. DISCONNECT, CAP, AND ABANDON IN PLACE EXISTING 6" AC WATER MAIN.
2. REMOVE METER/VALVE BOX & ABANDON EXISTING SERVICE LINE.
4. INSTALL:
   NEW 1 IN. DUAL SERVICE METER INSTALLATION PER CLALLAM COUNTY PUD STANDARD DETAIL

PROPOSED WATERMAIN SIZE WILL BE INCREASED FROM 6" TO 8" IN NEXT DELIVERABLE

PLAN
SCALE: 1"=20'



PROFILE
SCALE: 1"=20' HORIZ, 1"=5' VERT

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NOTICE
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CLALLAM BAY SEKIU WATER MAIN UPGRADES

WATER PLAN & PROFILE
HWY 112: THE OLD TAVERN TO LOOPED WATER SYSTEM

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: APRIL 2021

SHEET W-17
X of X

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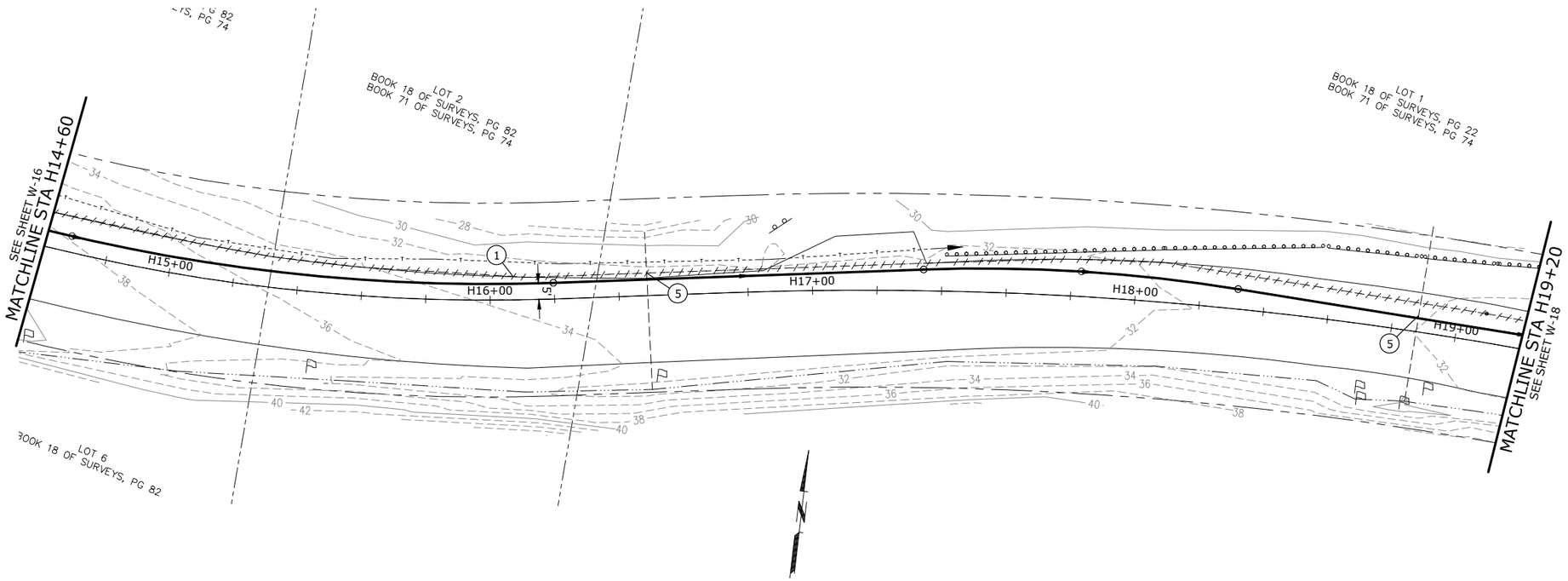


PROPOSED WATERMAIN SIZE WILL BE INCREASED FROM 6" TO 8" IN NEXT DELIVERABLE

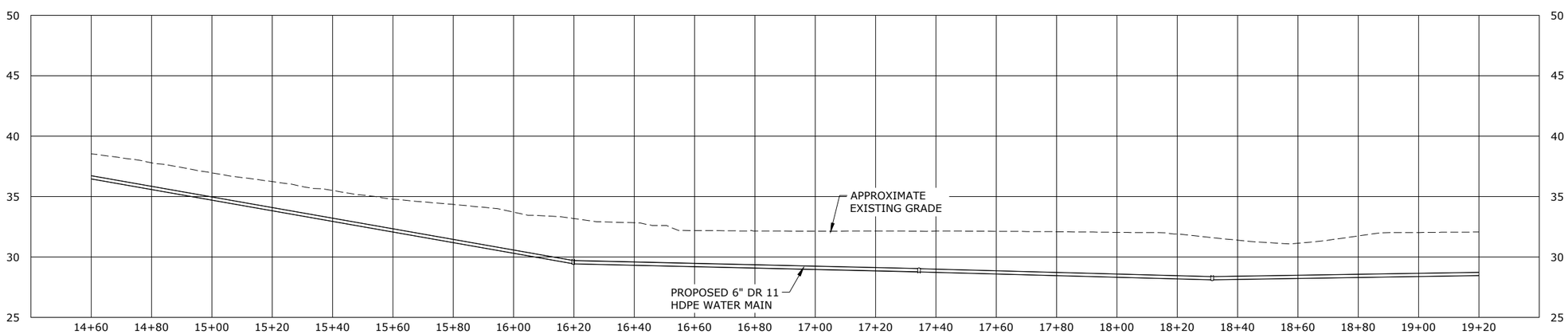
PLAN

SCALE: 1"=20'

CONSTRUCTION NOTES:

1. DISCONNECT, CAP, AND ABANDON IN PLACE EXISTING 6" AC WATER MAIN.

5. PROTECT EXISTING SD, MAINTAIN MINIMUM VERTICAL SEPARATION OF 18" MEASURED EDGE-TO-EDGE.



PROFILE

SCALE: 1"=20' HORIZ, 1"=10' VERT

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NOTICE

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WATER PLAN & PROFILE
HWY 112: THE OLD TAVERN TO LOOPED WATER SYSTEM

PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: APRIL 2021

SHEET W-18

X of X

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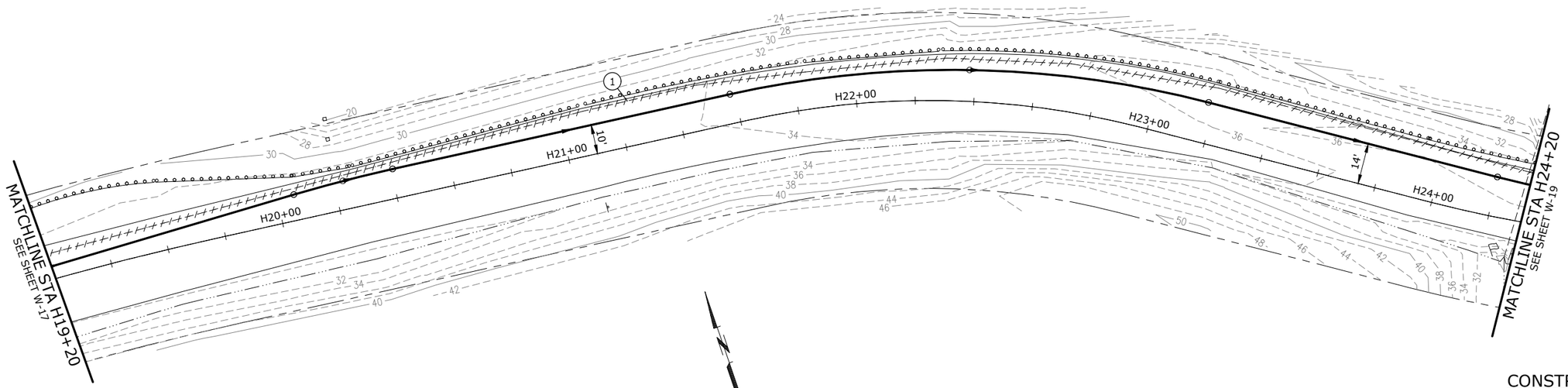
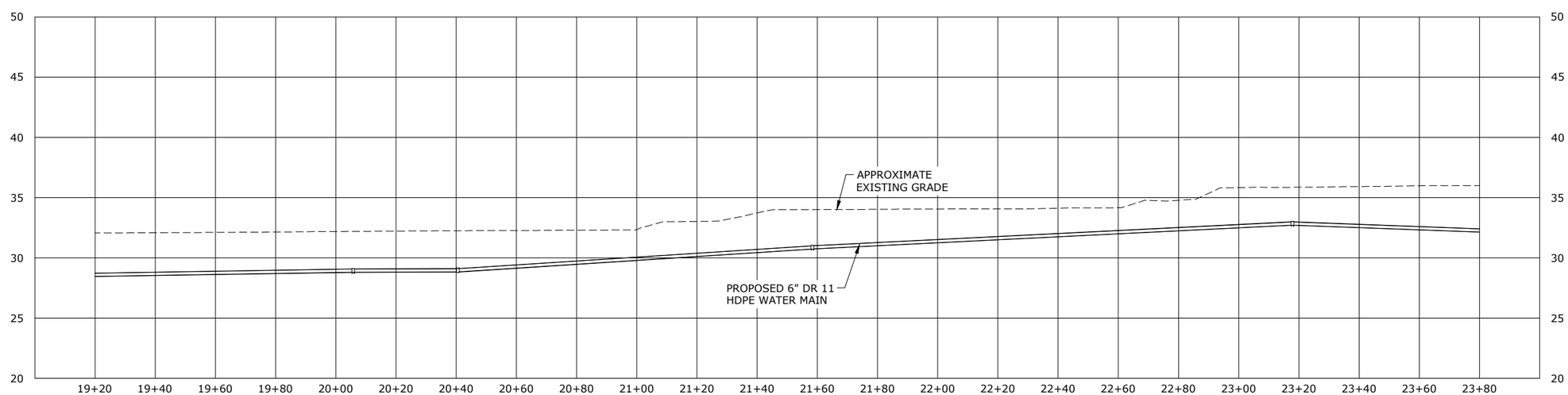


PLAN
SCALE: 1"=20'

CONSTRUCTION NOTES:

1. DISCONNECT, CAP, AND ABANDON IN PLACE EXISTING 6" AC WATER MAIN.

PROPOSED WATERMAIN SIZE WILL BE INCREASED FROM 6" TO 8" IN NEXT DELIVERABLE



PROFILE
SCALE: 1"=20' HORIZ, 1"=10' VERT

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PROJECT NO.: 20-2926 | SCALE: AS SHOWN | DATE: APRIL 2021

SHEET
W-19
X of X

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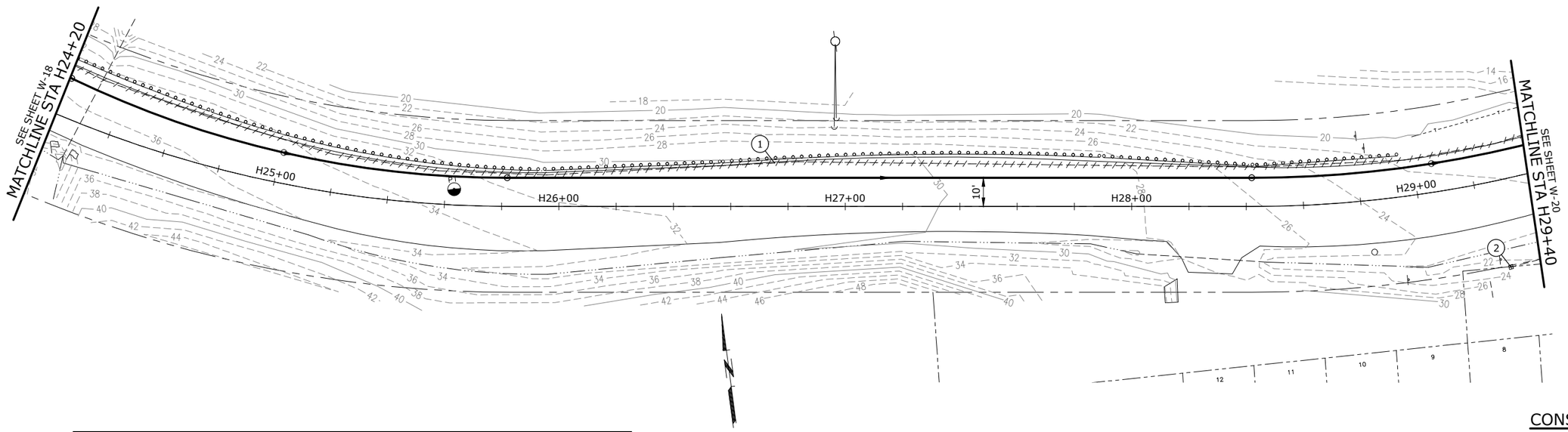


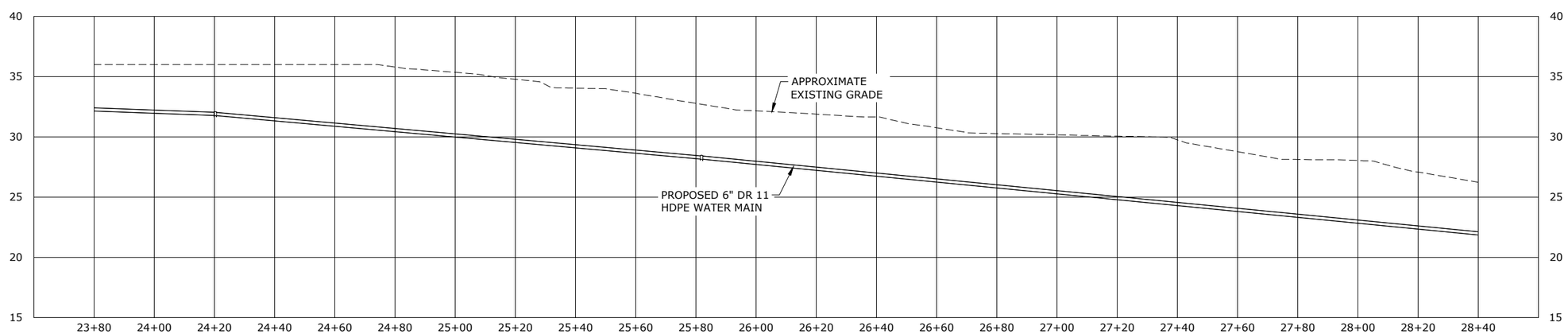
PROPOSED WATERMAIN SIZE WILL BE INCREASED FROM 6" TO 8" IN NEXT DELIVERABLE

PLAN

SCALE: 1"=20'

CONSTRUCTION NOTES:

1. DISCONNECT, CAP, AND ABANDON IN PLACE EXISTING 6" AC WATER MAIN.
2. REMOVE METER/VALVE BOX & ABANDON EXISTING SERVICE LINE.



PROFILE

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SHEET W-20
X of X

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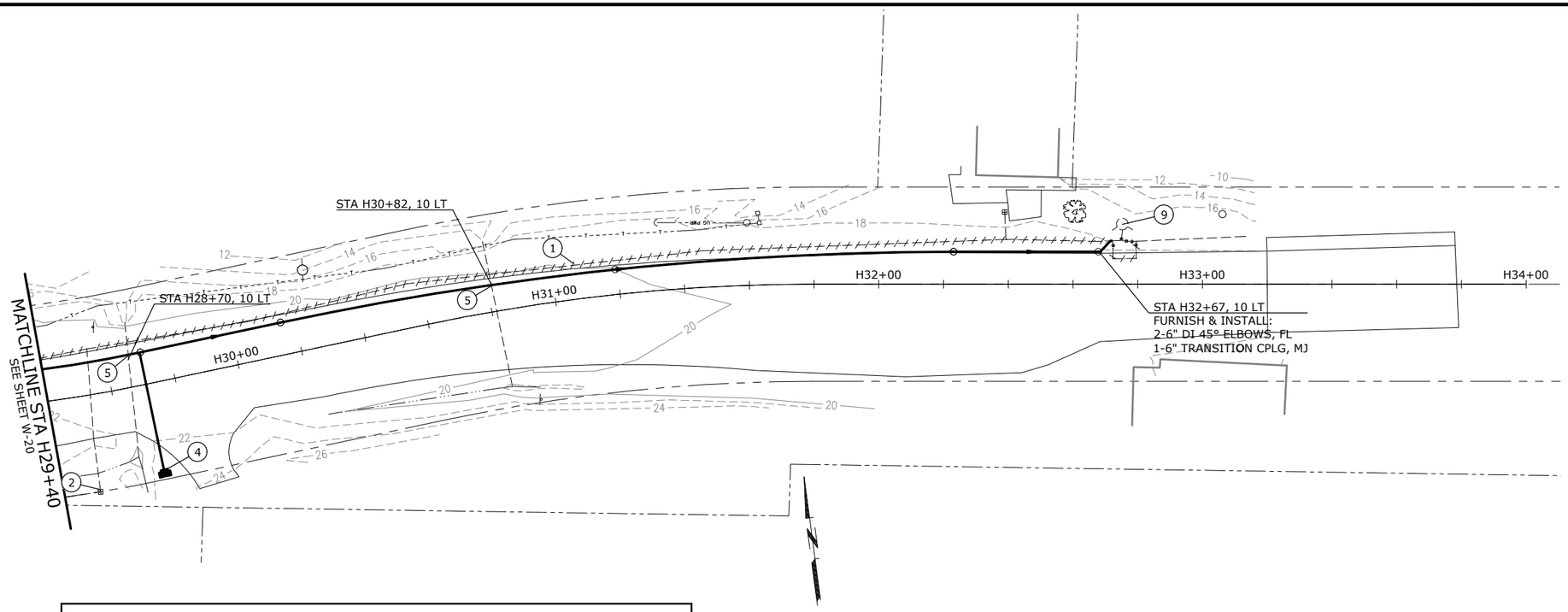

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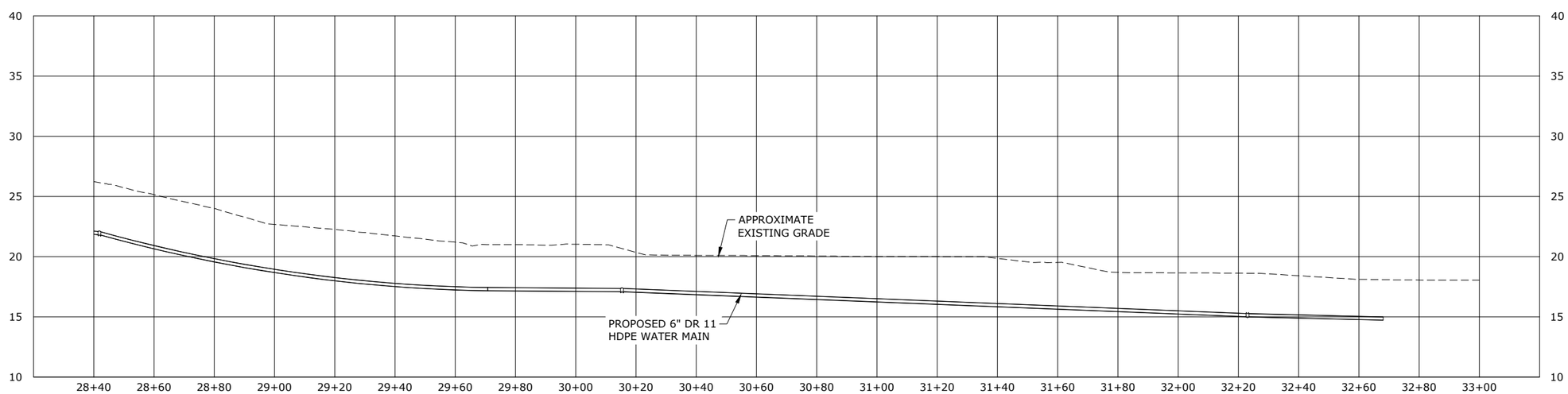

PROFILE

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WATER PLAN & PROFILE
HWY 112: THE OLD TAVERN TO LOOPED WATER SYSTEM

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SHEET
W-21
X of X

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