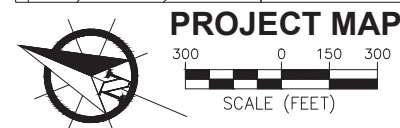
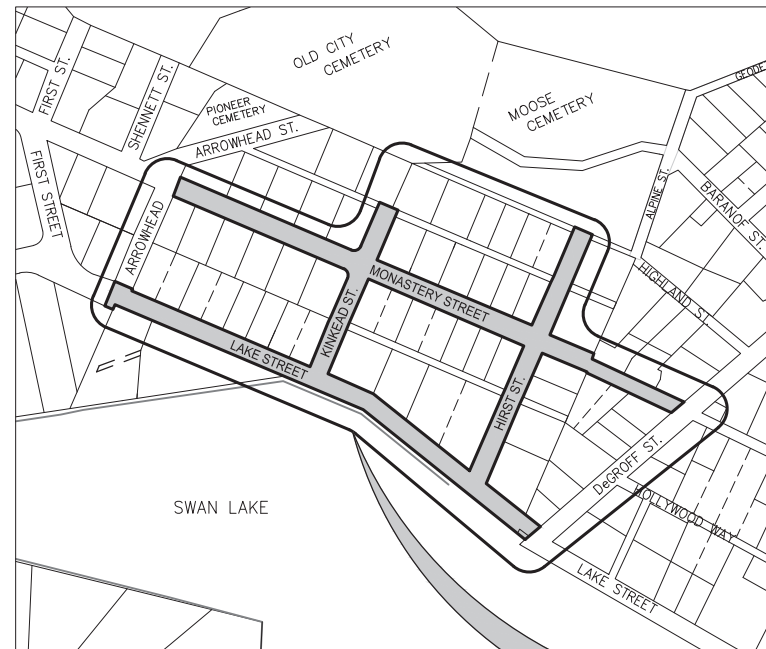
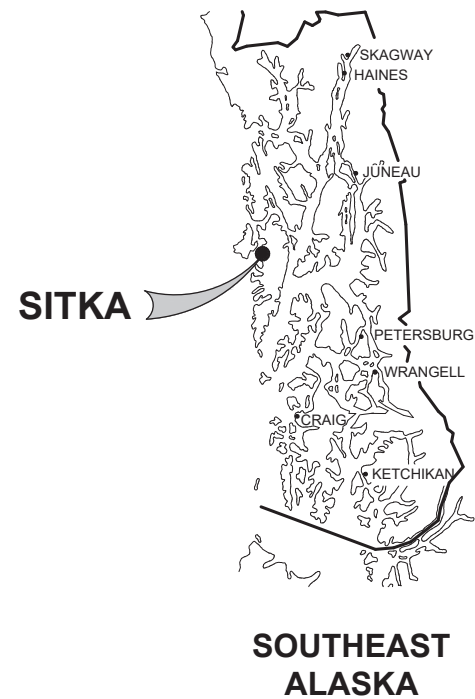
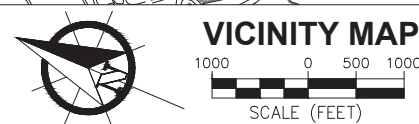
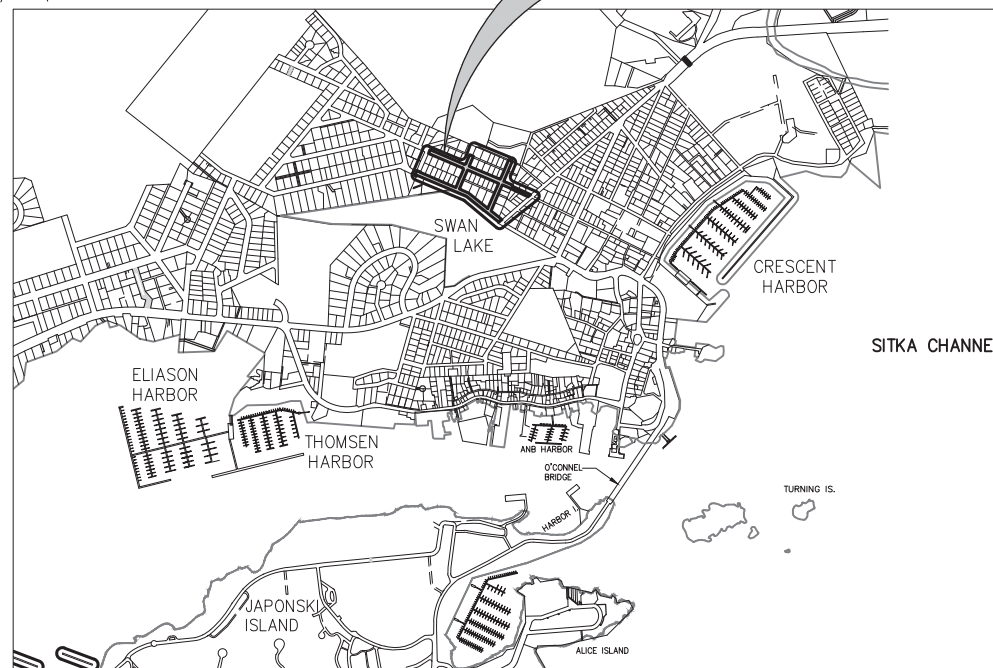


CITY & BOROUGH OF SITKA LAKE-HIRST AND MONASTERY-KINKEAD UTILITY AND STREET IMPROVEMENTS CBS PROJECT NO. 2023-149

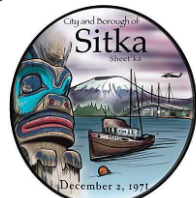


PROJECT LOCATION



DRAWING INDEX	
DWG. NO.	TITLE
GENERAL	
G1	TITLE SHEET, VICINITY MAP AND DRAWING INDEX
G2	GENERAL NOTES, LEGEND AND ABBREVIATIONS
G3	OVERALL SITE PLAN, SURVEY CONTROL AND SHEETS KEY
G4	PROJECT CONTROL TABLES
G5-G7	LAKE STREET EXISTING CONDITIONS AND DEMOLITION PLAN
G8-G10	MONASTERY STREET EXISTING CONDITIONS AND DEMOLITION PLAN
G11	KINKEAD STREET EXISTING CONDITIONS AND DEMOLITION PLAN
G12-G13	HIRST STREET EXISTING CONDITIONS AND DEMOLITION PLAN
CIVIL	
C1-C2	TYPICAL SECTIONS
C3	LAKE STREET GRADING AND DRAINAGE BOP TO STA. 13+00
C4	LAKE STREET GRADING AND DRAINAGE STA. 13+00 TO STA. 17+00
C5	LAKE STREET GRADING AND DRAINAGE STA. 17+00 TO EOP
C6	MONASTERY STREET GRADING AND DRAINAGE STA. BOP TO STA. 33+50
C7	MONASTERY STREET GRADING AND DRAINAGE STA. 33+50 TO STA. 37+50
C8	MONASTERY STREET GRADING AND DRAINAGE STA. 37+50 TO EOP
C9	KINKEAD STREET GRADING AND DRAINAGE BOP TO EOP
C10	HIRST STREET GRADING AND DRAINAGE BOP TO STA. 62+75
C11	HIRST STREET GRADING AND DRAINAGE STA. 62+75 TO EOP
C12	STORM DRAIN SYSTEM SUMMARY
C13-C17	DETAILED GRADING PLANS
C18	STORM DRAIN DETAILS
C19-C20	TYPICAL DETAILS
C21-C22	SIGNING AND PAVEMENT MARKING PLAN
C23	SIGN ASSEMBLY SUMMARY
HYDROLOGY	
H1	WRINKLENECK CREEK SITE OVERVIEW AT LAKE STREET
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H7	CULVERT CROSSING TYPICAL SECTIONS
H8	CULVERT CROSSING DETAILS
UTILITIES	
U1	WATER AND SEWER GENERAL NOTES
U2	LAKE ST WATER AND SEWER PLAN & PROFILE BOP TO STA. 13+10
U3	LAKE ST WATER AND SEWER PLAN & PROFILE STA. 13+10 TO STA. 17+00
U4	LAKE ST WATER AND SEWER PLAN & PROFILE STA. 17+00 TO EOP
U5	MONASTERY ST WATER AND SEWER PLAN & PROFILE BOP TO STA. 33+50
U6	MONASTERY ST WATER AND SEWER PLAN & PROFILE STA. 33+50 TO STA. 37+50
U7	MONASTERY ST WATER AND SEWER PLAN & PROFILE STA. 37+50 TO EOP
U8	KINKEAD ST WATER AND SEWER PLAN & PROFILE BOP TO EOP
U9	KINKEAD ST END LOTS WATER AND SEWER PLAN & PROFILE
U10	HIRST ST WATER AND SEWER PLAN & PROFILE BOP TO STA. 63+00
U11	HIRST ST WATER AND SEWER PLAN & PROFILE STA. 63+00 TO EOP
U12	UTILITY SERVICE SUMMARY
U13-U15	UTILITY DETAILS

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City and Borough of Sitka

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DATE: 04/12/2024

**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE:
**TITLE SHEET, VICINITY MAP AND
DRAWING INDEX**

G1

PND PROJECT #: 222100 C.A.N. NO.: AECC250

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GENERAL NOTES

- CITY AND BOROUGH OF SITKA 2002 STANDARD SPECIFICATIONS ARE MADE PART OF THIS CONTRACT, DETAILS NOT SHOWN SHALL CONFORM TO STANDARD DETAILS THEREIN AS MODIFIED BY THE SPECIAL PROVISIONS.
- PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.
- PROPERTY LINE LOCATIONS USED IN THESE PLANS ARE DERIVED FROM RECORD PLATS AND DO NOT REPRESENT A BOUNDARY SURVEY.
- THE LOCATIONS AND ELEVATIONS OF EXISTING FEATURES AND UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE. UTILITIES SHOWN ARE TAKEN FROM EXISTING RECORDS AND OTHER SOURCES. ADDITIONAL UTILITIES MAY BE PRESENT HOWEVER ARE NOT SHOWN. THE CONTRACTOR SHALL VERIFY ALL UTILITY LOCATIONS IN THE FIELD AS NECESSARY PRIOR TO BEGINNING WORK. THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL UTILITIES ENCOUNTERED IN THE FIELD SHALL BE RECORDED ON THE CONTRACTOR'S RECORD DRAWINGS. CONTACT LOCAL UTILITIES AT THE FOLLOWING NUMBERS FOR LOCATE SERVICE A MINIMUM OF TWO BUSINESS DAYS PRIOR TO ANY EXCAVATION:

CABLE:	GCI	811
WATER AND SEWER:	CBS ENVIRONMENTAL DIVISION	747-4060
ELECTRIC:	CBS ELECTRIC DEPARTMENT	747-1884
- PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. NO ASSURANCE IS GIVEN THAT THE INDICATED POSITION OF ANY EXISTING UTILITY IS CORRECT OR THAT THE INFORMATION IS COMPLETE. ALL LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THE CORRECT AND TRUE LOCATION AS TO AVOID DAMAGE OR DISTURBANCE. DAMAGE TO EXISTING SITE FACILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
- OVERHEAD ELECTRICAL (OHE) IS SHOWN ON PLANS. ADDITIONAL OVERHEAD UTILITIES INCLUDING TELEPHONE, CABLE TV, AND OTHER OVERHEAD LINES MAY EXIST BUT ARE NOT SHOWN, THE LINES THAT ARE SHOWN ARE LOCATED BY POINT-TO-POINT, POLE-TO-POLE. DETERMINE THE EXTENT OF HAZARDS OR IMPACTS ON CONSTRUCTION ACTIVITIES CREATED BY OVERHEAD OR UNDERGROUND LINES IN ALL AREAS AND FOLLOW PROCEDURES DURING CONSTRUCTION AS REQUIRED BY LAW. PRIOR TO CONSTRUCTION, MEET WITH UTILITY OWNERS TO DETERMINE THE EXTENT OF HAZARDS AND TAKE PRECAUTIONS AS REQUIRED TO PROTECT PERSONS AND PROPERTY AND TO AVOID DISRUPTION OF SERVICE.
- CONTRACTOR SHALL COORDINATE WITH ALASKA WASTE (747-5669) TO ENSURE GARBAGE PICKUP, AND SHALL ENSURE DAILY MAIL SERVICE WILL BE UNINTERRUPTED TO ALL BUSINESSES AND RESIDENCES AFFECTED BY THE PROJECT.
- THE CONTRACTOR SHALL NOTIFY CBS PUBLIC WORKS AND ALL AFFECTED RESIDENTS OF PROPOSED UTILITY SERVICE INTERRUPTIONS AT LEAST 72 HOURS PRIOR TO WORK.
- GRADING AND ALIGNMENT OF PIPE, STRUCTURES & FINAL SURFACING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS. GRADE ALL IMPROVEMENTS WITH POSITIVE DRAINAGE AWAY FROM BUILDINGS TO DITCHES, SWALES OR STORM DRAIN INLETS, (INCIDENTAL).
- THE DRAWINGS DO NOT NECESSARILY SHOW ALL TREES, BUSHES OR OTHER PLANTINGS THAT WILL BE ENCOUNTERED DURING CONSTRUCTION ACTIVITIES. NO TREES, BUSHES OR OTHER PLANTING SHALL BE DAMAGED OR REMOVED EXCEPT AS SHOWN OR APPROVED BY THE ENGINEER.
- ALL ITEMS DESIGNATED TO BE REMOVED, INCLUDING PAVEMENT, SHALL BE DISPOSED OF AT CONTRACTOR-PROVIDED DISPOSAL SITE, APPROVED BY THE ENGINEER, EXCEPT AS NOTED.
- CONTRACTOR SHALL REFERENCE ALL EXISTING PROPERTY CORNER MONUMENTS, RIGHT OF WAY MONUMENTS, AND CENTERLINE MONUMENTS PRIOR TO CONSTRUCTION. UNLESS NOTED OTHERWISE, DISTURBED MONUMENTS SHALL BE RESET OR REPLACED SUBSEQUENT TO PAVING EXCEPT WHERE MONUMENT WOULD BE A HAZARD AS DETERMINED BY THE ENGINEER. EXISTING SURVEY MONUMENTS MAY NOT BE SHOWN ON THE DRAWINGS. ALL WORK SHALL BE DONE BY, OR UNDER THE DIRECTION OF, AN ALASKA REGISTERED LAND SURVEYOR.
- THE CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL DAMAGES TO PRIVATE AND PUBLIC PROPERTY ASSOCIATED WITH THE CONSTRUCTION ACTIVITIES, INCLUDING DAMAGES CAUSED BY COMPACTION EFFORTS.
- THE CONTRACTOR SHALL NOT STORE MATERIALS OR EQUIPMENT, OR OPERATE EQUIPMENT WITH ITS TRACKS OR WHEELS PLACED ON PRIVATE PROPERTY, WITHOUT THE WRITTEN APPROVAL OF THE PROPERTY OWNER.
- TEMPORARY STAIRS OR RAMPS SHALL BE PROVIDED AS REQUIRED FOR PEDESTRIAN ACCESS TO WALKWAYS DURING THE CONSTRUCTION PERIOD.
- AT NO TIME SHALL CONCRETE BE POURED AGAINST TREE ROOTS.
- THE USE OF GROUT AND QUICKSET CEMENT PRODUCTS WITH BRIDGES, WOOD, STONES, AND OTHER SIMILAR GRADE ADJUSTMENT DEVICES TO SUPPORT CATCH BASIN FRAMES OVER CATCH BASINS AND MANHOLES WILL NOT BE PERMITTED ON THE PROJECT. STRUCTURE FRAMES SHALL BE ADJUSTED WITH ADJUSTING RINGS AND CONCRETE CEMENT PRODUCTS THAT WILL PRODUCE A MINIMUM 30 DAY COMPRESSIVE STRENGTH OF 3000 PSI.
- SAWCUT AS NECESSARY ACROSS EXISTING SIDEWALKS, DRIVEWAYS AND PARKING AREAS TO PROVIDE A NEAT MATCH LINE. MAINTAIN 1'-6" MINIMUM CUTBACKS ON ACP, UNLESS NOTED OTHERWISE. SIDEWALK, CURB & GUTTER SHALL BE REPLACED TO THE NEAREST EXISTING CONTROL JOINT.
- HORIZONTAL DIMENSIONS ON PLAN AND PROFILE SHEETS TO PIPELINES, MANHOLES, AND OTHER FACILITIES, ARE TO THE CENTERLINES OF THOSE FACILITIES UNLESS SPECIFICALLY NOTED OTHERWISE. PIPELINE LENGTHS ARE MEASURED HORIZONTALLY. (I.E. PLANAR - NOT CORRECTED FOR SLOPE)
- MINOR FITTINGS AND VARIOUS SYSTEM APPURTENANCES NOT SHOWN IN UTILITY SHEETS MAY BE REQUIRED TO CONSTRUCT UTILITY SYSTEMS. CONTRACTOR SHALL USE INDUSTRY STANDARD PRACTICES TO ACHIEVE ALL CONNECTIONS NOT DETAILED IN ACCORDANCE WITH THE SPECIFICATIONS AND CONSISTENT WITH APPLICABLE LOCAL, STATE AND FEDERAL REGULATIONS PER ENGINEER DIRECTION (INCIDENTAL).
- MATCH EXISTING GRADES AT PROJECT LIMITS AND WHERE REQUIRED TO MATCH ELEVATIONS AT EXISTING ROADS.

LEGEND

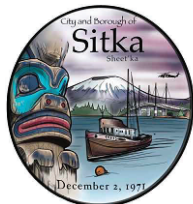
EXISTING	THIS PROJECT	
		ELECTRIC - OVERHEAD
		ELECTRIC - UNDERGROUND
		SANITARY SEWER
		SANITARY FORCE MAIN
		WATER
		STORM DRAIN
		GRADE BREAK
		PRIMARY MONUMENT
		CONTROL POINT
		FENCE
		PROPERTY LINE
		RIGHT OF WAY
		CENTERLINE
		RECORD EASEMENT
		TREE
		TREE LINE
		ROCK WALL (LANDSCAPE)
		BUSH
		GATE OR BUTTERFLY VALVE
		CURB STOP
		SEWER SERVICE
		SEWER CLEAN OUT
		SS MANHOLE
		SD MANHOLE, SOLID COVER
		STORM DRAIN INLET, CB OR MH
		FIRE HYDRANT
		LIGHT/POWER POLE
		SIGN
		CONCRETE
		PAVEMENT
		CONCRETE SIDEWALK OR CURB AND GUTTER AT DRIVEWAY. SEE NOTE 12 ON SHEET C12.
		GRASS
		DETECTABLE TILE
		HOUSE NUMBER
		BUILDING
		BEGIN D/W STATION REFERENCE PROJECT BASELINE
		CURB TYPE

ABBREVIATIONS

A	AT	H	HDPE	HIGH DENSITY POLYETHYLENE	R	RADIUS
@	ANGLE POINT	L	IAW	IN ACCORDANCE WITH	RAP	RECYCLED ASPHALT PAVEMENT
<PT	DIAMETER	IE	INT	INVERT ELEVATION	REV	REVISION
∅	ASPHALT CONCRETE	INV	INT	INTERSECTION	ROW, R/W	RIGHT-OF-WAY
AC	ADDITIVE	L	INT	INTERSECTION	RT	RIGHT
ADD	ASPHALT CONCRETE PAVEMENT / ASBESTOS CEMENT PIPE	LT/L	INV	INVERT	S	SOUTH, SMOOTH
ACP	AMERICANS WITH DISABILITIES ACT	LF	LF	LINEAR FEET	S	STORM DRAIN
ADA	ALUMINUM CAP	LT/L	LF	LEFT	SRB	SHOT ROCK BORROW
ALCAP	ALTERNATE	M	MAG	MAGNETIC	SRVC	SERVICE
ALT	ALUMINUM	MAG	MAX	MAXIMUM	SS	SANITARY SEWER SERVICE
ALUM	APPROVED	MAX	ME/MTE	MATCH EXISTING	SSMH	SANITARY SEWER MANHOLE
APP	ASPHALT TREATED BASE	ME/MTE	MH	MANHOLE	ST	STREET
ATB	BOREHOLE	MH	MJ	MECHANICAL JOINT	STA	STATION
B	BOP	MJ	MJRJ	MECHANICAL JOINT RESTRAINED JOINT	STD	STANDARD
BH	BEGIN VERTICAL CURVE	MJRJ	MIN	MINIMUM	S/W	SIDEWALK
BOP	CATCH BASIN	MIN	N	NORTHING	SY	SQUARE YARD
BVC	CITY & BOROUGH OF SITKA	N	NE	NORTHEAST	I	THICK
C	C&G	NE	NF	NOT FOUND	t.	TANGENT
CB	CAST IRON	NF	NO	NUMBER	TBC	TOP BACK OF CURB
CB	CAST IRON PIPE	NO	NTS	NOT TO SCALE	TBM	TEMPORARY BENCHMARK
CBS	CHECKED	NTS	Q	OFFSET	TCE	TEMPORARY CONSTRUCTION EASEMENT
C&G	CENTER LINE	Q	OFF	OFFSET	TV	TELEVISION
CI	CORRUGATED METAL PIPE	OFF	OSHA	OCCUPATIONAL HEALTH AND SAFETY ADMINISTRATION	TYP	TYPICAL
CIP	CORRUGATED POLYETHYLENE PIPE	OSHA	P	PIPE	U	UNKNOWN
CKD	CROWN	P	PC	POINT OF CURVATURE	UNO	UNLESS NOTED OTHERWISE
CL	CONNECT TO EXISTING	PC	PCB	PRECAST BLOCK	V	VERTICAL CURVE
CL	CUBIC YARD	PCB	PCC	PORTLAND CEMENT CONCRETE	W	WITH
CMF	DUCTILE IRON PIPE	PCC	PE	PERMANENT EASEMENT	w/	WEST
CPEP/PPP	DETAIL	PE	PI	POINT OF INTERSECTION	W	WEST
CR	DRIVEWAY	PI	PIP	PROTECT IN PLACE	WS	WATER SERVICE
CR	DRAWN	PIP	POC	POINT ON CURVE	WT	WATER TIGHT
CTE	EASTING	POC	PRC	POINT OF REVERSE CURVATURE		
CY	EAST JORDAN IRON WORKS	PRC	PSI	POUNDS PER SQUARE INCH		
D	ELEVATION	PSI	PT	POINT OF TANGENCY		
DIP	END OF PROJECT	PT	PVC	POLY-VINYL CHLORIDE		
DTL	EDGE OF PAVEMENT	PVC	PVI	POINT OF VERTICAL INTERSECTION		
D/W	EXISTING	PVI	PVMT	PAVEMENT		
DWN	END VERTICAL CURVE	PVMT				
E	FURNISH AND INSTALL					
E	FOOT					
EJIW	GRADE BREAK					
ELEV	GRADE TO DRAIN					
EOP	GATE VALVE					
EP						
(E)						
EVC						
F&I						
FT						
G						
GB						
GTD						
GV						

REVISIONS

REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



City and Borough of Sitka

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DATE: 04/12/2024

CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
**GENERAL NOTES, LEGEND AND
ABBREVIATIONS**

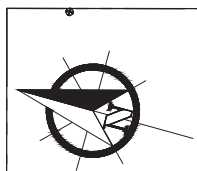
PND PROJECT #: 222100 C.A.N. NO.: AECC250

G2

n:\22xxx\222100 cbs lhmk utility and street improvements.g. drawings\1. design\1. civil\G3-G4 Overall Site Plan and SC.dwg - Bbrown - 4/9/2024

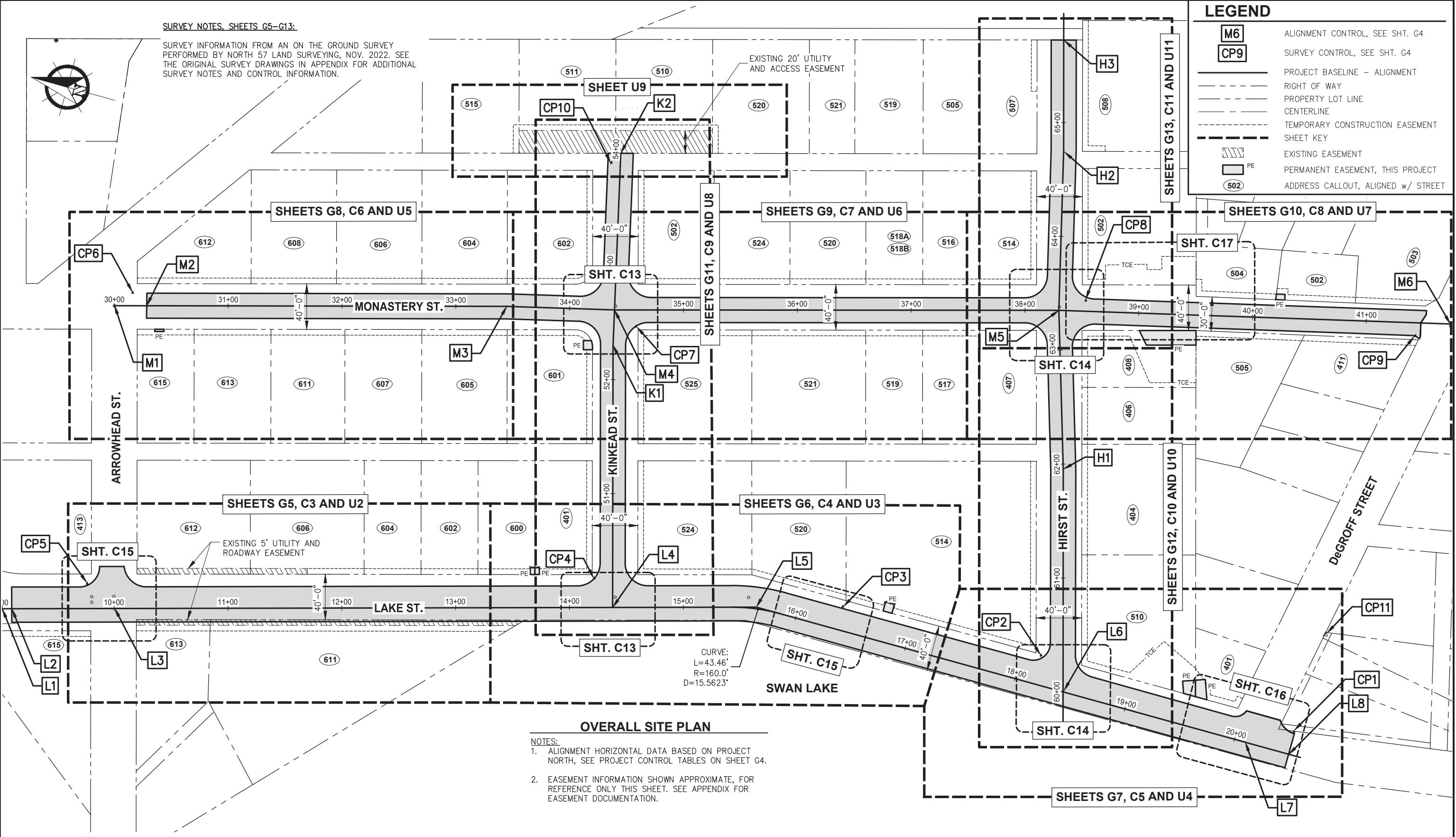
SURVEY NOTES, SHEETS G5-G13:

SURVEY INFORMATION FROM AN ON THE GROUND SURVEY PERFORMED BY NORTH 57 LAND SURVEYING, NOV. 2022. SEE THE ORIGINAL SURVEY DRAWINGS IN APPENDIX FOR ADDITIONAL SURVEY NOTES AND CONTROL INFORMATION.



LEGEND

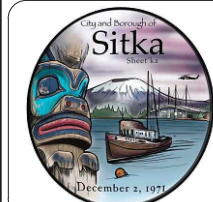
- M6 ALIGNMENT CONTROL, SEE SHT. G4
- CP9 SURVEY CONTROL, SEE SHT. G4
- PROJECT BASELINE - ALIGNMENT
- - - RIGHT OF WAY
- - - PROPERTY LOT LINE
- - - CENTERLINE
- - - TEMPORARY CONSTRUCTION EASEMENT
- - - SHEET KEY
- EXISTING EASEMENT
- PE PERMANENT EASEMENT, THIS PROJECT
- 502 ADDRESS CALLOUT, ALIGNED W/ STREET



CURVE:
L=43.46'
R=160.0'
D=15.5623°

OVERALL SITE PLAN

- NOTES:**
- ALIGNMENT HORIZONTAL DATA BASED ON PROJECT NORTH, SEE PROJECT CONTROL TABLES ON SHEET G4.
 - EASEMENT INFORMATION SHOWN APPROXIMATE, FOR REFERENCE ONLY THIS SHEET. SEE APPENDIX FOR EASEMENT DOCUMENTATION.



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SCALE: SCALE IN FEET
0 40 80 FT.

DRAFT
DATE: 04/12/2024

**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE:
**OVERALL SITE PLAN, SURVEY
CONTROL AND SHEETS KEY**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

G3

n:\22xxx\222100 cbs lhmk utility and street improvements\1. drawings\1. civil\G3-G4 Overall Site Plan and SC.dwg - Bbrown - 4/9/2024

EASEMENT TABLE - LAKE AND ARROWHEAD STREETS

STREET ADDRESS	TYPE, THIS PROJECT	REMARKS
510 LAKE STREET	TCE (SIZE VARIES)	TCE VARIES, SEE APPENDIX FOR DETAILS
510 LAKE STREET	PERMANENT EASEMENT (VARIES)	PE VARIES, SEE APPENDIX FOR DETAILS
514 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG LAKE STREET AND HIRST STREET FRONTAGE
514 LAKE STREET	8'x8' PERMANENT EASEMENT	LAKE STREET FRONTAGE 8' CENTERED ON FIRE HYDRANT
520 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG LAKE STREET FRONTAGE
524 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	LAKE STREET FRONTAGE
600 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	LAKE STREET FRONTAGE
600 LAKE STREET	6'x4' PERMANENT EASEMENT	WEST CORNER OF PROPERTY, 4' NORTH/SOUTH
602 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG LAKE STREET FRONTAGE
604 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG LAKE STREET FRONTAGE
606 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG SOUTH 50'-0" OF LAKE STREET FRONTAGE
611 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG WEST SIDE OF EXISTING ROADWAY AND UTILITY EASEMENT
612 LAKE STREET	NO EASEMENT REQUIRED	EXISTING 5' ROADWAY AND UTILITY EASEMENT
613 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG WEST SIDE OF EXISTING ROADWAY AND UTILITY EASEMENT
615 LAKE STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG SOUTH 71'-7" OF LAKE STREET FRONTAGE
413 ARROWHEAD STREET	NO EASEMENT REQUIRED	WORK IS ON ROADWAY SIDE OF EXISTING ROCK RETAINING WALL

DRAFT

EASEMENT TABLE - HIRST AND DEGROFF STREETS

STREET ADDRESS	TYPE, THIS PROJECT	REMARKS
404 HIRST STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG HIRST STREET FRONTAGE
406 HIRST STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG HIRST STREET FRONTAGE
407 HIRST STREET	NO EASEMENT REQUIRED	WORK IS ON ROADWAY SIDE OF EXISTING WOOD RAIL FENCE
408 HIRST STREET	TCE (SIZE VARIES)	TCE VARIES, SEE APPENDIX FOR DETAILS
408 HIRST STREET	PERMANENT EASEMENT (VARIES)	PE VARIES, SEE APPENDIX FOR DETAILS
502 HIRST STREET	TCE (SIZE VARIES)	TCE VARIES, SEE APPENDIX FOR DETAILS
507 HIRST STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG HIRST STREET FRONTAGE
508 HIRST STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG HIRST STREET FRONTAGE
401 DEGROFF STREET	TCE (SIZE VARIES)	TCE VARIES, SEE APPENDIX FOR DETAILS
401 DEGROFF STREET	PERMANENT EASEMENT (VARIES)	PE VARIES, SEE APPENDIX FOR DETAILS
411 DEGROFF STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
503 DEGROFF STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE

DRAFT

EASEMENT TABLE - KINKEAD STREET

STREET ADDRESS	TYPE, THIS PROJECT	REMARKS
401 KINKEAD STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG LAKE STREET AND KINKEAD STREET FRONTAGE
401 KINKEAD STREET	6'x4' PERMANENT EASEMENT	WEST CORNER OF PROPERTY, 4' NORTH/SOUTH
502 KINKEAD STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET AND KINKEAD STREET FRONTAGE
510 KINKEAD STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ADDITIONAL BEYOND EXISTING 20' UTILITY & ACCESS EASEMENT
511 KINKEAD STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ADDITIONAL BEYOND EXISTING 20' UTILITY & ACCESS EASEMENT
515 KINKEAD STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ADDITIONAL BEYOND EXISTING 20' UTILITY & ACCESS EASEMENT
520 KINKEAD STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ADDITIONAL BEYOND EXISTING 20' UTILITY & ACCESS EASEMENT

DRAFT

EASEMENT TABLE - MONASTERY STREET

STREET ADDRESS	TYPE, THIS PROJECT	REMARKS
502 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
502 MONASTERY STREET	6'x8' PERMANENT EASEMENT	MONASTERY STREET FRONTAGE 8' CENTERED ON FIRE HYDRANT
504 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE AND ADDITIONAL
505 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
514 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET AND HIRST STREET FRONTAGE
516 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
517/519 MONASTERY ST	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
518A/B MONASTERY ST	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
520 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
521 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
524 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
525 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET AND KINKEAD STREET FRONTAGE
601 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET AND KINKEAD STREET FRONTAGE
601 MONASTERY STREET	8'x8' PERMANENT EASEMENT	KINKEAD STREET FRONTAGE 8' CENTERED ON FIRE HYDRANT
602 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET AND KINKEAD STREET FRONTAGE
604 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
605 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
606 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
607 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
608 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
611 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
612 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
613 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
615 MONASTERY STREET	5' TEMPORARY CONSTRUCTION EASEMENT	ALONG MONASTERY STREET FRONTAGE
615 MONASTERY STREET	2'x8' PERMANENT EASEMENT	MONASTERY STREET FRONTAGE 8' CENTERED ON FIRE HYDRANT

DRAFT

SURVEY CONTROL TABLE

POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
CP1	10541.0770	9502.9620	31.38	MAG NAIL
CP2	10774.4270	9508.2650	31.92	MAG NAIL
CP3	10952.6990	9502.1680	34.04	MAG NAIL
CP4	11169.5720	9467.0580	31.91	MAG NAIL
CP5	11598.0460	9343.0060	37.33	MAG NAIL
CP6	11627.1480	9599.7390	45.14	MAG NAIL
CP7	11194.0930	9689.7170	33.86	MAG NAIL
CP8	10819.0020	9817.9330	34.70	MAG NAIL
CP9	10531.7420	9865.8030	38.20	MAG NAIL
CP10	11253.0390	9822.7410	38.31	MAG NAIL
CP11	10537.4340	9591.9300	32.79	ALUM CAP

LAKE STREET ALIGNMENT POINTS

POINT DESIGNATION	DESCRIPTION	STATION	NORTHING	EASTING
L1	BEGIN PROJECT	STA. 9+00.00	11664.9573	9301.1903
L2	BEGIN PAVEMENT	STA. 9+07.98	11657.2781	9303.3484
L3	ARROWHEAD ST INT	STA. 10+00.00	11568.6868	9328.2455
L4	KINKEAD ST INT	STA. 14+37.98	11147.0443	9446.7412
L5	ALIGNMENT PI	STA. 15+64.11	11025.4891	9480.9023
L6	HIRST ST INT	STA. 18+43.49	10745.9731	9481.5600
L7	DEGROFF ST INT	STA. 20+09.71	10579.7550	9481.9512
L8	END PROJECT PVMT	STA. 20+49.04	10529.7360	9482.0689

MONASTERY STREET ALIGNMENT POINTS

POINT DESIGNATION	DESCRIPTION	STATION	NORTHING	EASTING
M1	BEGIN PROJECT	STA. 30+00.00	11639.8850	9584.5020
M2	BEGIN PAVEMENT	STA. 30+17.00	11623.4982	9589.0381
M3	ALIGNMENT <PT	STA. 33+44.72	11307.6622	9676.4667
M4	KINKEAD ST INT	STA. 34+39.45	11215.6094	9698.8623
M5	HIRST ST INT	STA. 38+29.84	10839.4707	9803.3465
M6	DEGROFF ST INT	STA. 41+73.95	10504.9745	9884.1247

KINKEAD STREET ALIGNMENT POINTS

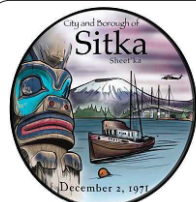
POINT DESIGNATION	DESCRIPTION	STATION	NORTHING	EASTING
K1	ALIGNMENT <PT	STA. 52+30.28	11208.4851	9668.6733
K2	END PAVEMENT	STA. 53+98.95	11247.2258	9832.8340

HIRST STREET ALIGNMENT POINTS

POINT DESIGNATION	DESCRIPTION	STATION	NORTHING	EASTING
H1	ALIGNMENT <PT	STA. 61+95.51	10798.3050	9669.9391
H2	ALIGNMENT <PT	STA. 64+74.79	10872.9400	9938.9421
H3	END PROJECT PVMT	STA. 65+72.55	10905.3187	10055.5758

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REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.



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SCALE: 1" = 40 FT.
 0 40 80 FT.

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DATE: 04/12/2024

CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
PROJECT CONTROL TABLES

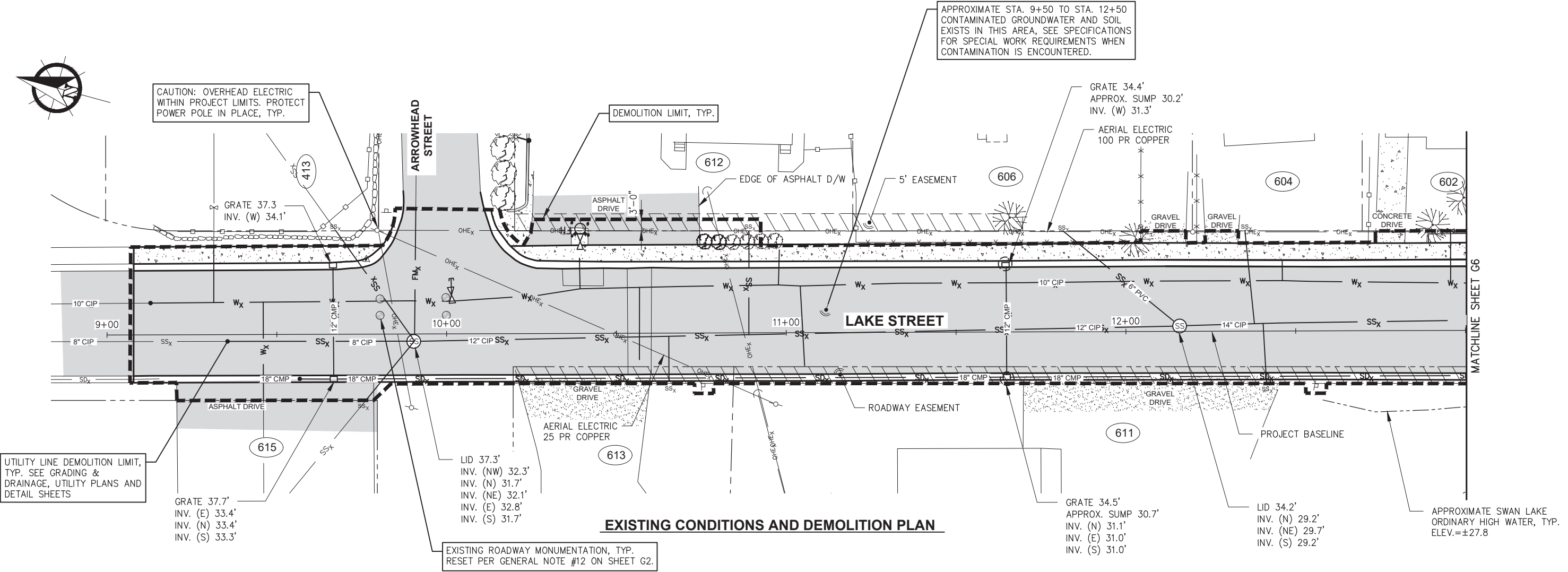
PND PROJECT #: 222100 C.A.N. NO.: AECC250

G4

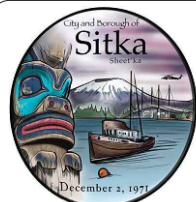
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**DEMOLITION SUMMARY AND GENERAL NOTES:
SHEETS G5-G13:**

1. CALLOUTS SHOWN WITH BOXED NOTES DENOTE DEMOLITION WORK OR INFORMATION. UNBOXED CALLOUTS DENOTE EXISTING CONDITIONS, TYPICAL SHEETS G5-G13.
2. FINAL DEMOLITION LIMITS ESTABLISHED BY LIMITS OF IMPROVEMENTS, SEE "C" SHEETS.
3. DEMOLISH AND DISPOSE ALL AC PAVEMENT TO APPROXIMATE LIMIT SHOWN. AT MATCH POINTS SAWCUT PAVEMENT 1'-6" FROM LIMIT OF WORK FOR INITIAL DEMOLITION UNTIL IMMEDIATELY PRIOR TO INSTALLATION OF NEW AC PAVEMENT. CONTRACTOR MAY ELECT TO GRIND EXISTING AC PAVEMENT TO FACILITATE REMOVAL, REUSE ON PROJECT OR PROVIDE RAP TO CBS, DELIVER TO ---TBD---
4. DEMOLISH AND DISPOSE ALL SIDEWALK AND CURB & GUTTER TO APPROXIMATE LIMIT SHOWN. SIDEWALK AND CURB & GUTTER DEMOLITION SHALL TERMINATE AT CONTROL JOINTS, UNO.
5. DEMOLISH AND DISPOSE ALL STORM DRAIN PIPE AND STRUCTURES TO APPROXIMATE LIMITS SHOWN, UNO. CUT PIPE A MINIMUM OF 5' FROM DEMOLISHED STRUCTURES AT LIMITS.
6. DEMOLISH AND DISPOSE DRIVEWAY CULVERTS WITHIN DEMOLITION LIMITS, UNO.
7. DEMOLISH AND DISPOSE WATER MAIN TO APPROXIMATE LIMITS SHOWN. SEE WATER SYSTEM DETAILS.
8. DEMOLISH AND DISPOSE ALL WATER SERVICES INCLUDING CURB STOPS EXCEPT AS NOTED.
 - 8.1. WHERE CURB STOPS ARE NOT SHOWN ON EXISTING WATER SERVICES, NONE WERE FOUND DURING SURVEY. EXCEPT WHERE PRIVATE INFRASTRUCTURE WOULD BE COMPROMISED AS DETERMINED BY THE ENGINEER, ALL CURB STOPS OR VALVES WITHIN 3' OF RIGHT-OF-WAY SHALL BE REMOVED AND DISPOSED WHETHER SHOWN ON THE PLANS OR NOT. CURB STOPS OR VALVES LOCATED MORE THAN 3' ONTO PRIVATE PROPERTY SHALL REMAIN IN PLACE. NEW CURB STOPS SHALL BE INSTALLED AT ALL SERVICES REGARDLESS, SEE U-SHEETS.
9. DEMOLISH AND DISPOSE FIRE HYDRANTS WITHIN DEMOLITION LIMITS, UNO.
10. DEMOLISH AND DISPOSE ALL SANITARY SEWER PIPES AND STRUCTURES INCLUDING LATERALS AND SERVICES TO APPROXIMATE LIMITS SHOWN.
11. REMOVE AND DISPOSE ALL SIGNAGE WITHIN DEMOLITION LIMITS EXCEPT AS NOTED ON SIGNING AND PAVEMENT MARKING PLANS. SIGNAGE SHALL REMAIN UNTIL REPLACED AS NEEDED TO ENSURE SAFE VEHICULAR AND PEDESTRIAN TRAFFIC IAW APPROVED TEMPORARY TRAFFIC CONTROL PLAN.
12. SALVAGE AND REINSTALL OR REPLACE ALL PROPERTY MARKERS, CAPS AND MONUMENTS. CENTERLINE MONUMENTS WITH CASE SHALL BE LOCATED AND REPLACED AT SAME LOCATION AND ELEVATION, EXCEPT AS NOTED.
13. WHERE NEEDED TO FACILITATE WORK, PRIVATE ROCK RETAINING WALLS SHALL BE DISASSEMBLED, SALVAGED AND REINSTALLED TO PREEXISTING CONDITION AS REQUIRED TO COMPLETE THE WORK PER ENGINEER DIRECTION.
14. OVERHEAD POWER LINES AND POLES SHALL REMAIN, PROTECT IN PLACE AND SHORE AS REQUIRED, UNO.



EXISTING CONDITIONS AND DEMOLITION PLAN



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 www.pndengineers.com

DESIGN: TCB CHECKED: TCB
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SCALE: SCALE IN FEET
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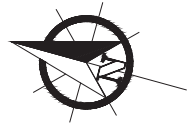
**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **LAKE STREET
 EXISTING CONDITIONS AND
 DEMOLITION PLAN**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

G5

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CAUTION: OVERHEAD ELECTRIC WITHIN PROJECT LIMITS. PROTECT POWER POLE IN PLACE, TYP.

REMOVE AND DISPOSE OF TREE AND ROOT WAD

REMOVE, SALVAGE AND RECONSTRUCT WOOD FENCE TO FACILITATE FIRE HYDRANT AND SEWER SERVICE WORK.

GRATE 32.2' APPROX. SUMP 27.9' INV. (W) 29.1'

PRESERVE AND PROTECT OR RECONSTRUCT FENCE AS REQUIRED

GRATE 32.6' INV. (E) 29.3' INV. (W) 29.1'

STORM STRUCTURE TO REMAIN

GRATE 29.6' APPROX. SUMP 27.3' INV. (E) 28.0' INV. (W) 28.1'

CONTROL POINT #4 MAG NAIL

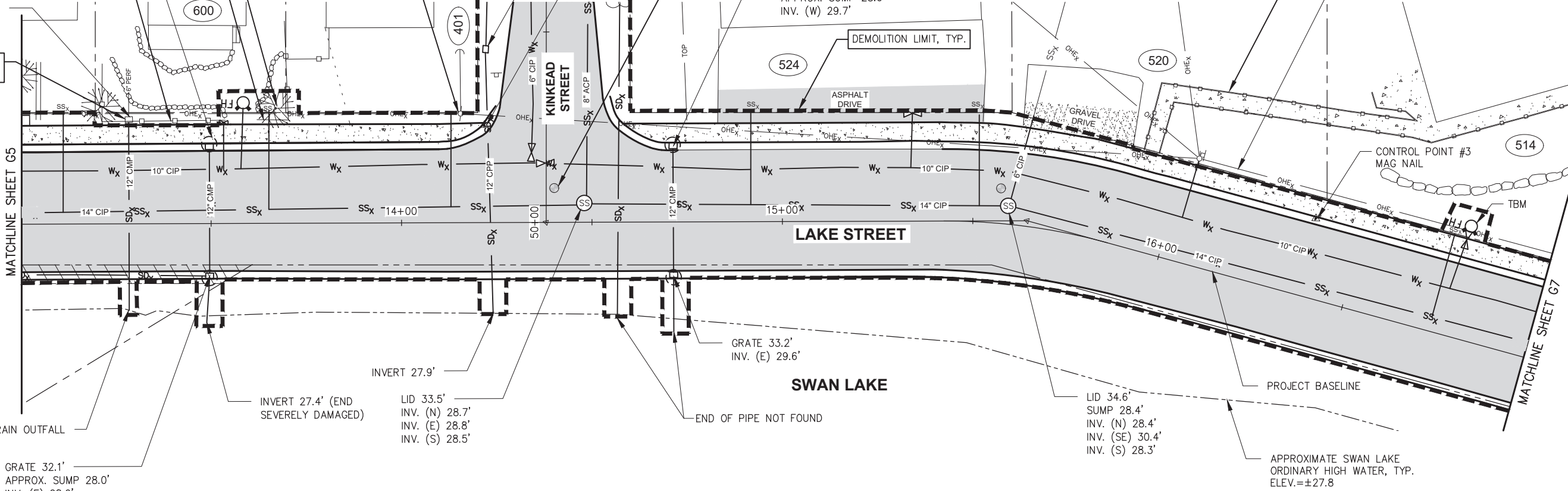
EXISTING ROADWAY MONUMENTATION. RESET PER GENERAL NOTE #12 ON SHEET G2.

GRATE 32.9' APPROX. SUMP 28.6' INV. (W) 29.7'

DEMOLITION LIMIT, TYP.

CONCRETE RAMP AND WOOD RAILS TO REMAIN IN PLACE. PRESERVE AND PROTECT.

AERIAL ELECTRIC 100 PR COPPER

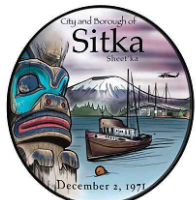


MATCHLINE SHEET G5

MATCHLINE SHEET G7

EXISTING CONDITIONS AND DEMOLITION PLAN

SEE SHEET G5 FOR DEMOLITION SUMMARY AND GENERAL NOTES.



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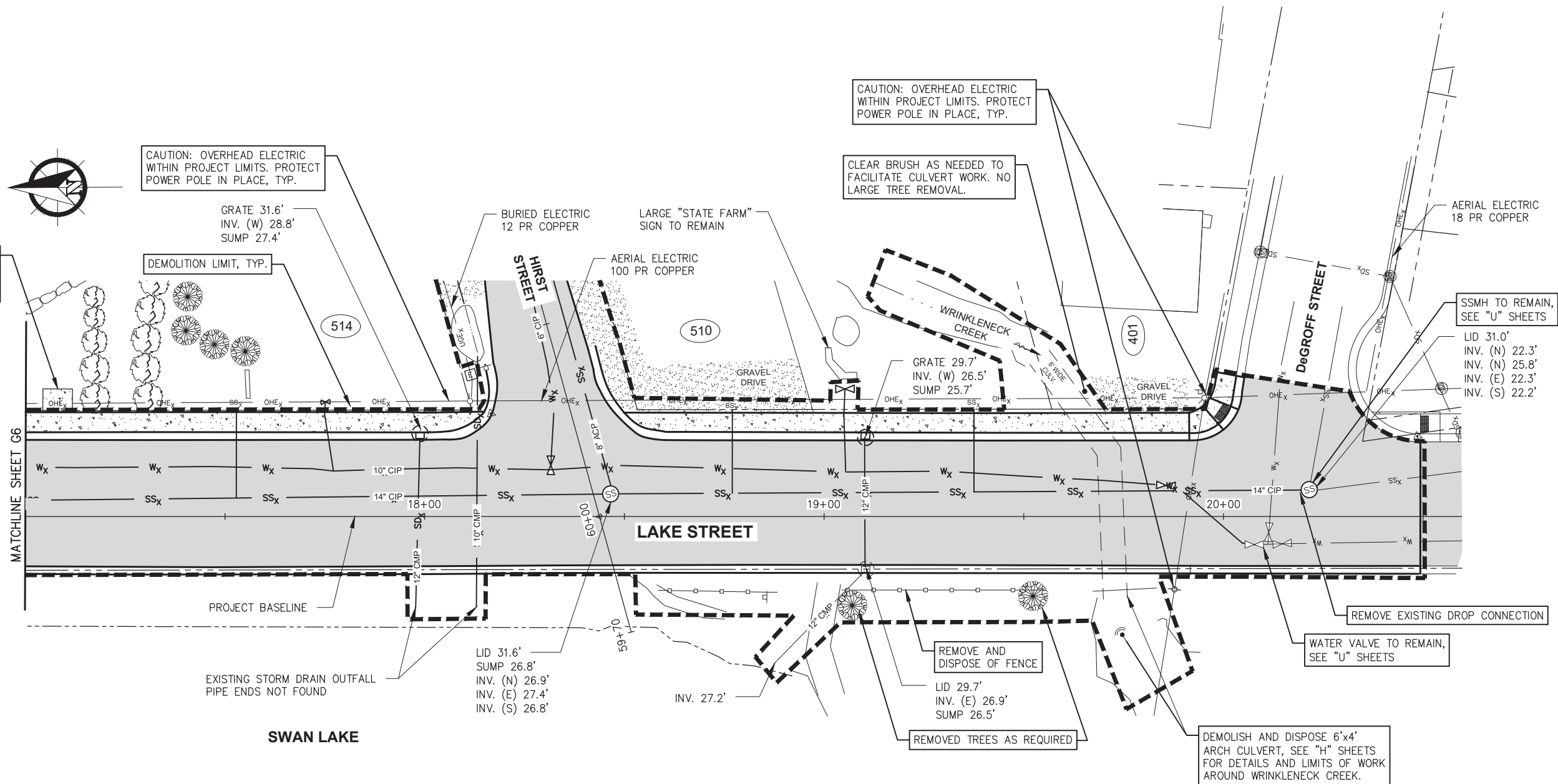
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **LAKE STREET**
EXISTING CONDITIONS AND
DEMOLITION PLAN

PND PROJECT #: 222100 C.A.N. NO.: AECC250

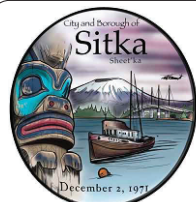
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EXISTING CONDITIONS AND DEMOLITION PLAN

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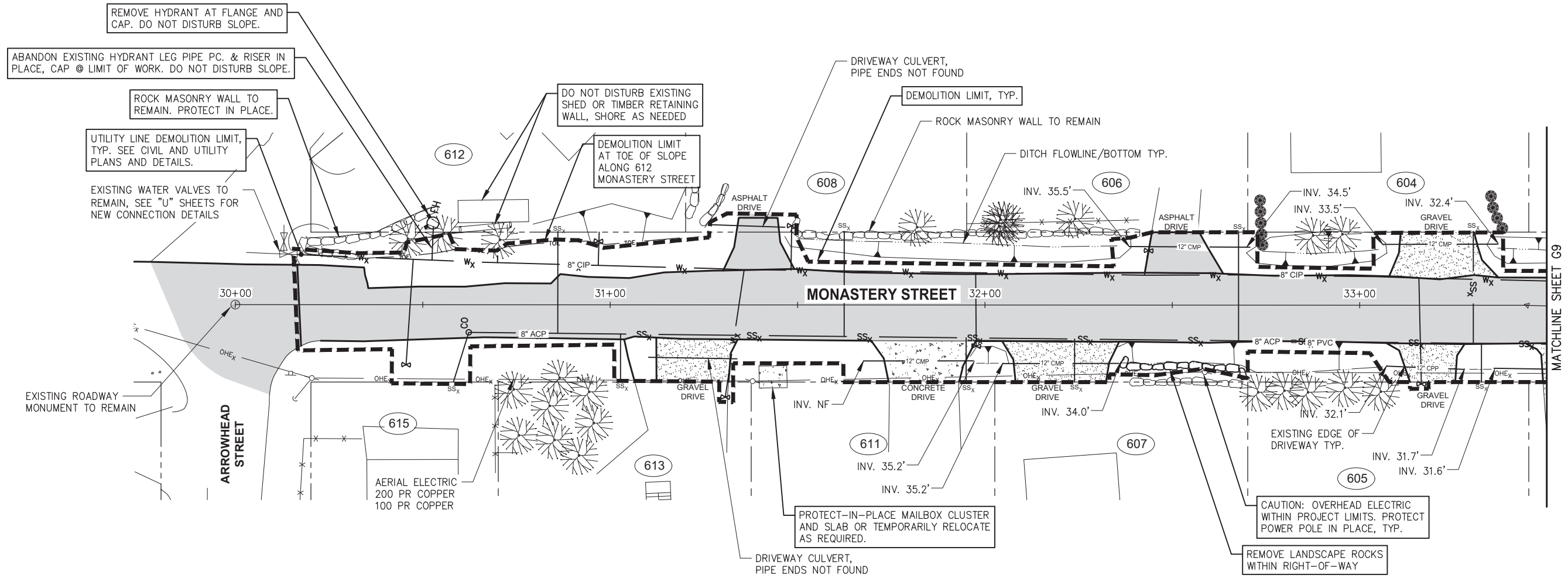
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CITY AND BOROUGH OF SITKA, ALASKA
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CBS PROJECT #2023-149

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EXISTING CONDITIONS AND
DEMOLITION PLAN

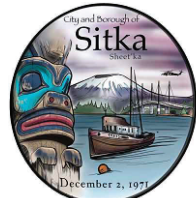
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EXISTING CONDITIONS AND DEMOLITION PLAN

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**CITY AND BOROUGH OF SITKA, ALASKA
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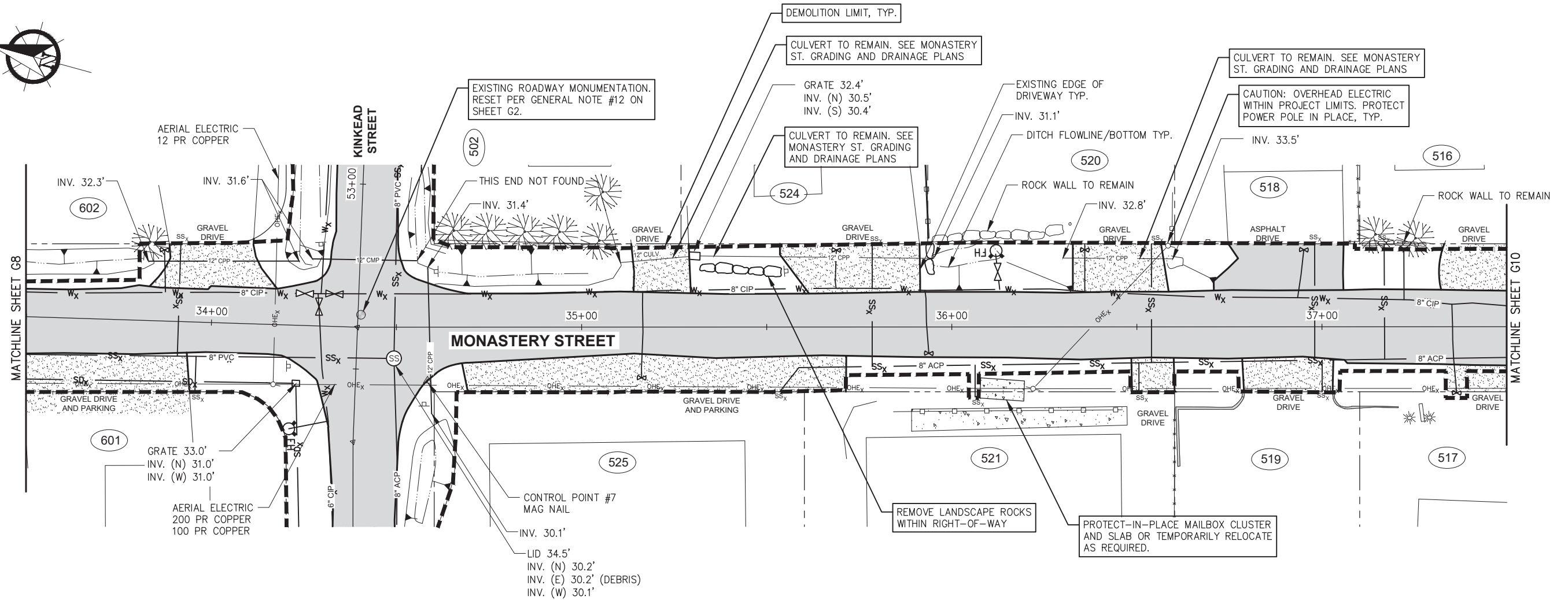
**SHEET TITLE: MONASTERY STREET
 EXISTING CONDITIONS AND
 DEMOLITION PLAN**

G8

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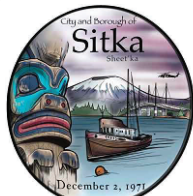
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EXISTING CONDITIONS AND DEMOLITION PLAN

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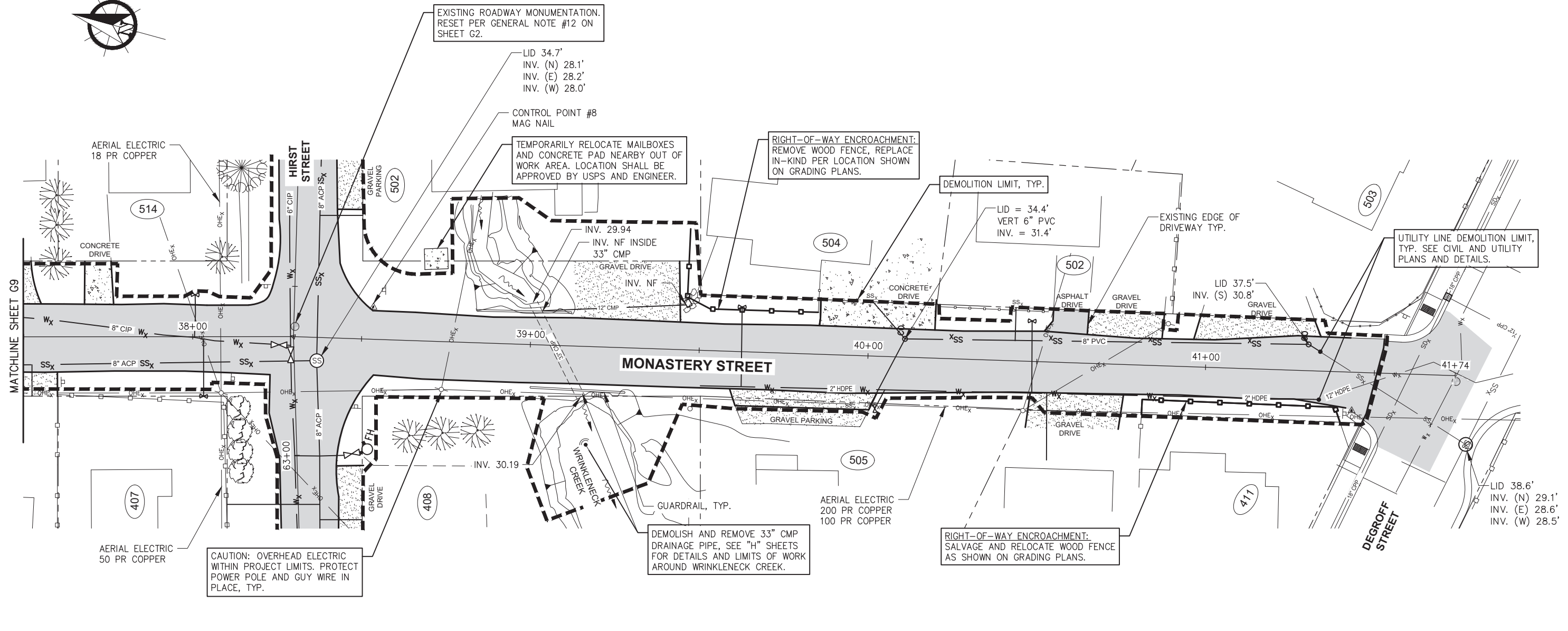
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SHEET TITLE: **MONASTERY STREET
EXISTING CONDITIONS AND
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G9

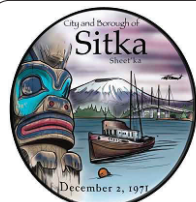
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EXISTING CONDITIONS AND DEMOLITION PLAN

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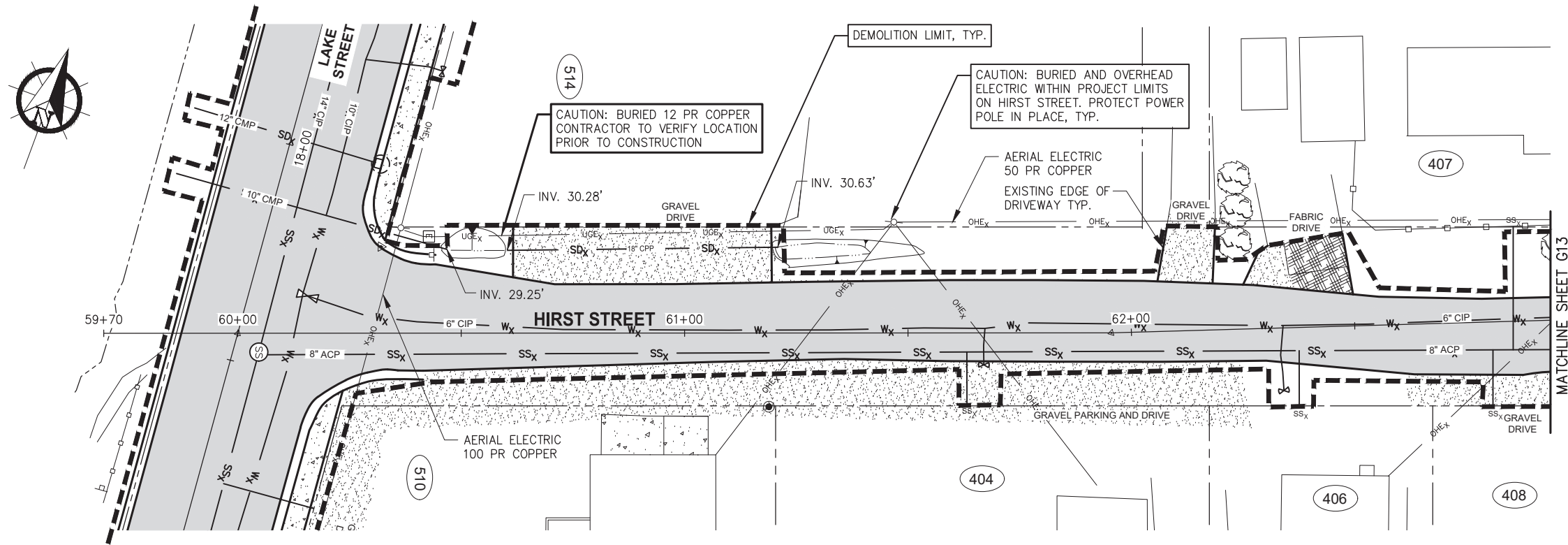
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SHEET TITLE: **MONASTERY STREET**
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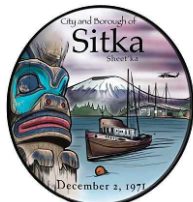
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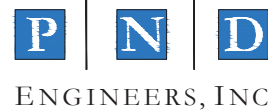
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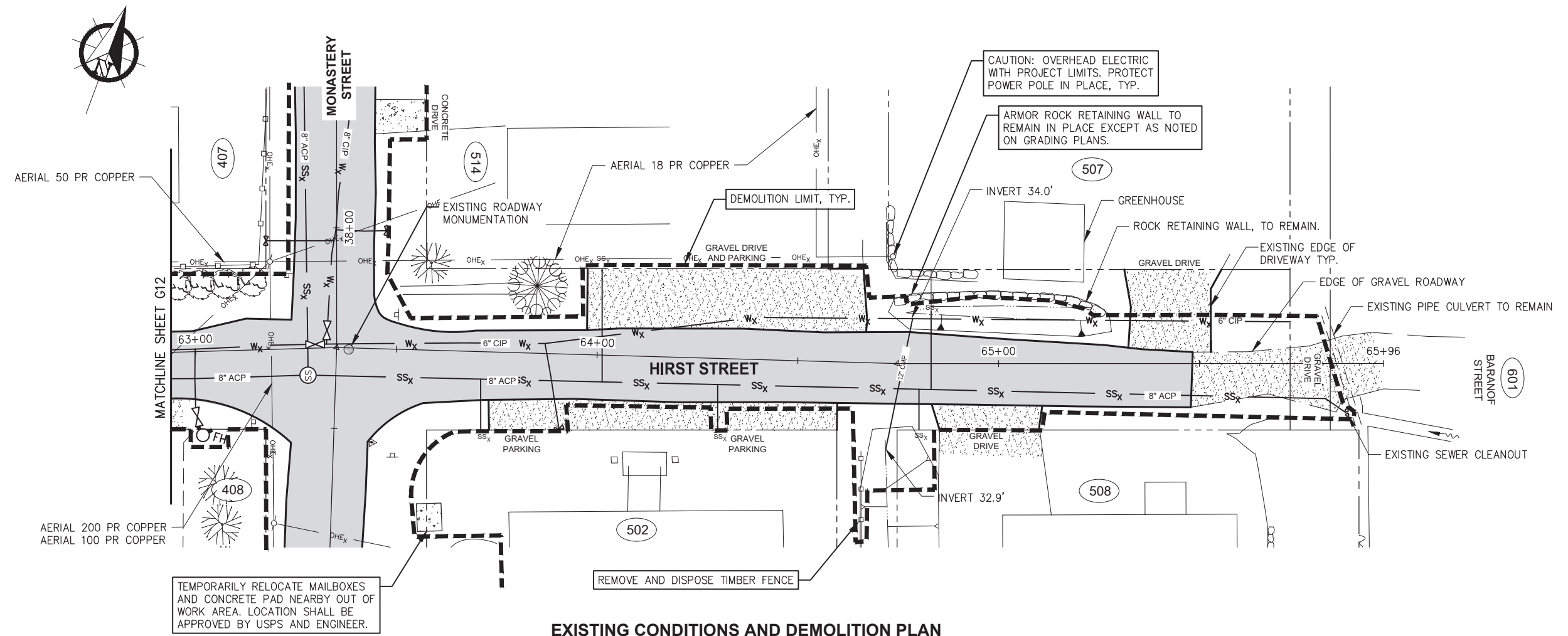
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UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **HIRST STREET
EXISTING CONDITIONS AND
DEMOLITION PLAN**

G12

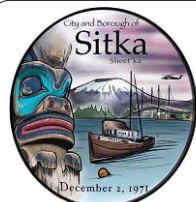
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EXISTING CONDITIONS AND DEMOLITION PLAN

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 DATE: 04/12/2024

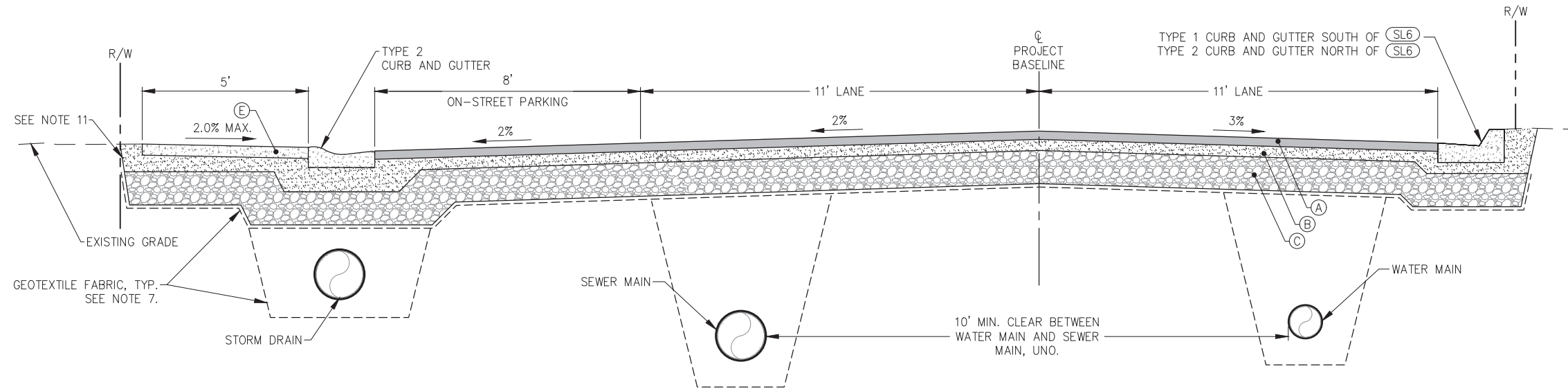
**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **HIRST STREET
 EXISTING CONDITIONS AND
 DEMOLITION PLAN**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

G13

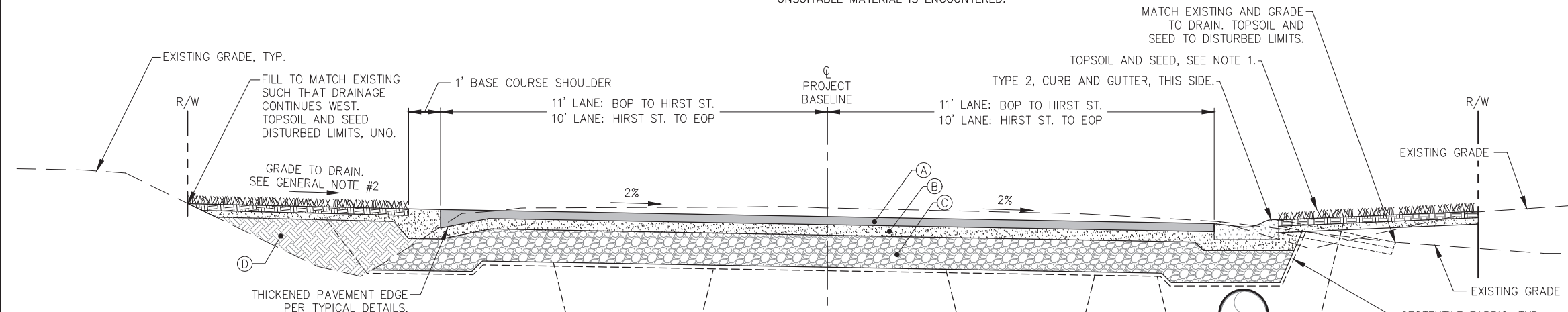
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A LAKE STREET TYPICAL SECTION

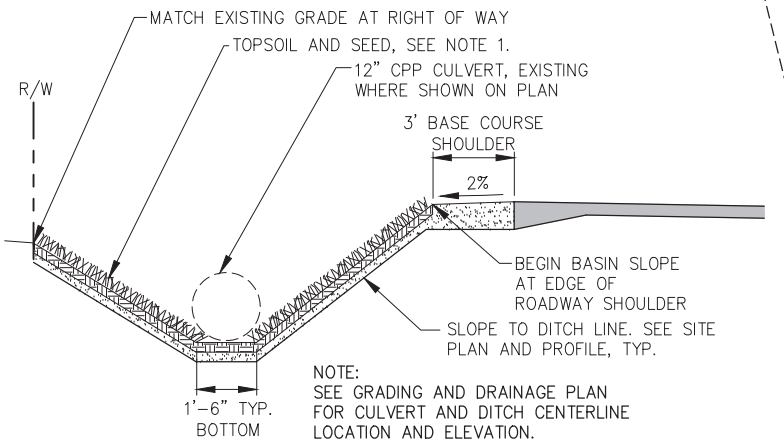
NOTE:
FABRIC NOT REQUIRED ON LAKE STREET, BOP TO STA. 13+00, UNLESS PEAT OR OTHERWISE UNSUITABLE MATERIAL IS ENCOUNTERED.

- GENERAL SECTION NOTES SHEETS C1-C17:**
- DISTURBED AREAS BEYOND THE LIMITS OF CURBS AND/OR SIDEWALKS SHALL BE CONSTRUCTED TO MATCH THE ADJACENT SURFACING PER ENGINEER'S DIRECTION. 2"t. TOPSOIL WITH SEED SHALL BE PLACED OVER 2"t. MINIMUM BASE COURSE GRADING C-1 IN EXISTING GRASSY AND FILLED DITCH AREAS.
 - GRADE AREAS AT PROJECT LIMITS AS REQUIRED TO ENSURE OFF-SITE DRAINAGE IS MAINTAINED TO EXISTING STATE OR BETTER AS DETERMINED BY THE ENGINEER, INCIDENTAL.
 - APPLY TACK COAT TO VERTICAL CONCRETE SURFACES PRIOR TO PAVING AT ALL CONCRETE-ACP AND ACP-ACP JOINTS.
 - SEAL ACP JOINTS AT EXISTING MATCH POINTS IAW CBS STD SPEC 40.02 AND THE SPECIAL PROVISIONS.
 - ALL CURB AND GUTTER TYPES SHALL BE IAW CBS STD DTL 30-2M.
 - PROVIDE 1'-6" MIN. ACP CUTBACK IMMEDIATELY PRIOR TO PAVING AT ALL LOCATIONS WHERE MATCHING EXISTING PAVEMENT.
 - GEOTEXTILE FABRIC REQUIRED UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - IF NO PEAT OR OTHERWISE UNSUITABLE SUBGRADE IS ENCOUNTERED WITHIN UTILITY TRENCHES, CONFIRM WITH ENGINEER TO OMIT GEOTEXTILE FABRIC FOR ENTIRE ROADWAY SECTION. IF UNSUITABLE MATERIAL IS ENCOUNTERED IN ANY UTILITY TRENCH FABRIC SHALL BE INSTALLED FOR ENTIRE ROADWAY SECTION.
 - GEOTEXTILE FABRIC AROUND PIPE AND STRUCTURES SHALL BE PER SUBGRADE REINFORCEMENT DETAILS
 - UNSUITABLE MATERIAL DETAIL SHALL ONLY APPLY AS A CONTINGENCY AS DIRECTED BY THE ENGINEER IN THE EVENT UNSUITABLE MATERIAL IS ENCOUNTERED AT THE LIMIT OF EXCAVATION. NO SPECIFIC LOCATIONS ARE KNOWN AND NONE ARE NOTED ON THE PLANS.
 - IN AREAS WHERE UNSUITABLE MATERIAL IS ENCOUNTERED THE ENGINEER SHALL DETERMINE THE EXTENT OF MATERIAL REMOVED, 4' BELOW FG MAXIMUM. GEOTEXTILE SHALL BE PLACED AT LIMITS OF EXCAVATION IN ACCORDANCE WITH PROJECT SPECIFICATIONS. UNSUITABLE MATERIAL SHALL BE REPLACED WITH USABLE EXCAVATION OR CLASS A SHOT ROCK BORROW.
 - SHORING REQUIRED TO AVOID DISTURBANCE OUTSIDE ROW.
 - PROVIDE MINIMUM 6"t. PCC SIDEWALK AT ALL DRIVEWAYS, PER STD DTL 30-9M, AND AT CURB RAMPS, PER UNIDIRECTIONAL CURB RAMP SECTION.
 - EXCAVATE AS STEEP AS ALLOWABLE TO MINIMIZE LIMITS OF EXCAVATION.
 - BASE COURSE MAY BE GRADE C-1, D-1, CRUSHED ASPHALT BASE COURSE OR ASPHALT TREATED BASE COURSE.



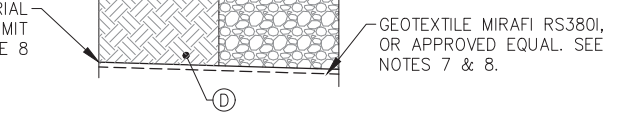
B MONASTERY STREET TYPICAL SECTION

NOTE:
FABRIC NOT REQUIRED ON MONASTERY STREET, BOP TO STA. 33+50, UNLESS PEAT OR OTHERWISE UNSUITABLE MATERIAL IS ENCOUNTERED.

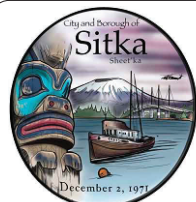


MONASTERY STREET DITCH DETAIL
STA. 34+70 TO STA. 36+75

MATERIAL SCHEDULE	
SYMBOL	MATERIAL DESCRIPTION
(A)	3"t. AC PAVEMENT
(B)	4"t. BASE COURSE
(C)	12"t. MIN. CLASS A SHOT ROCK BORROW
(D)	USABLE EXCAVATION OR CLASS A SHOT ROCK BORROW. THICKNESS PER ENGINEER.
(E)	4"t. MIN. PCC SIDEWALK, SEE NOTE 10



UNSUITABLE MATERIAL DETAIL



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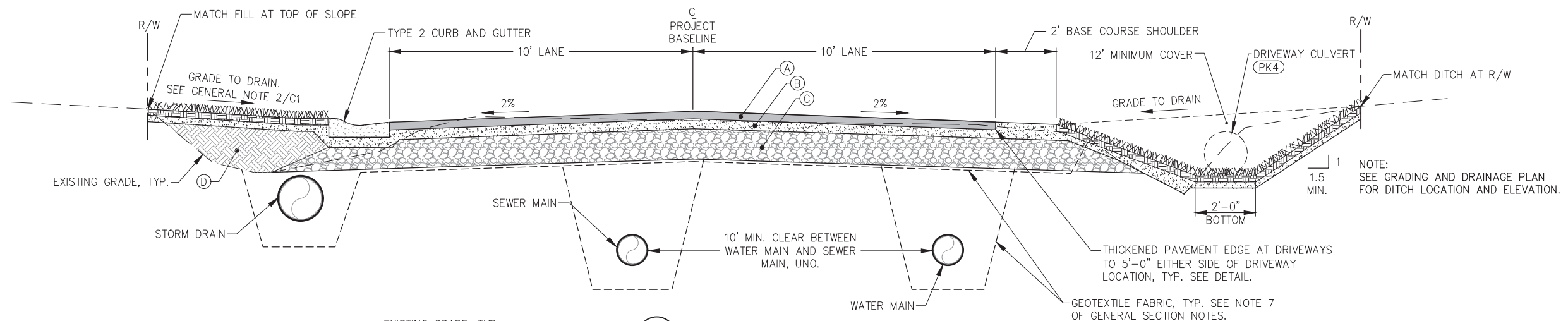
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
TYPICAL SECTIONS

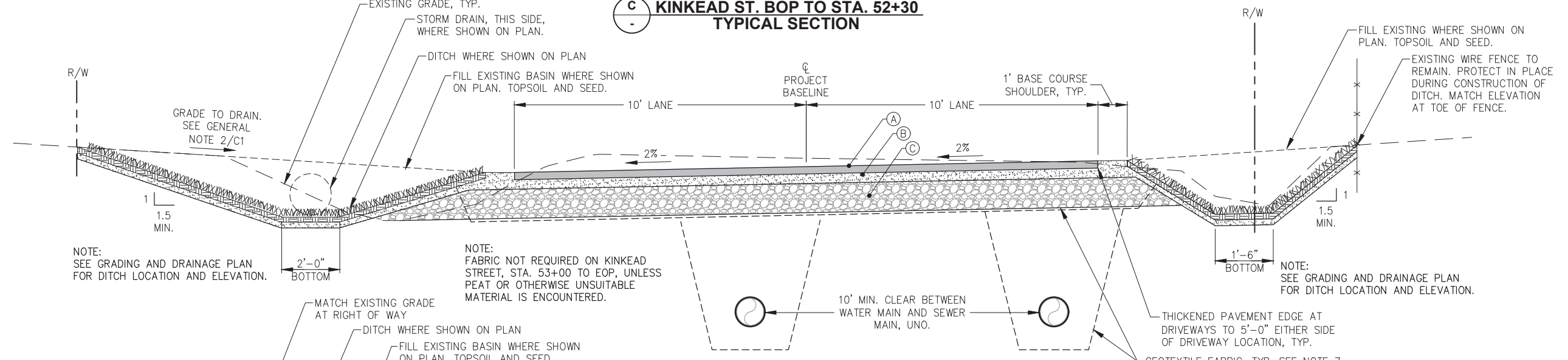
PND PROJECT #: 222100 C.A.N. NO.: AECC250

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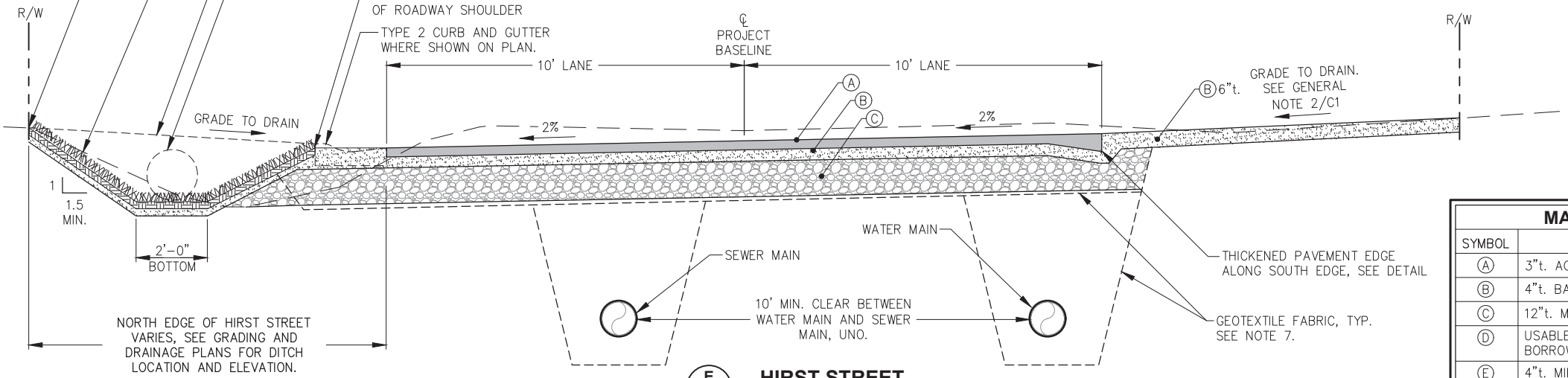
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**C KINKEAD ST. BOP TO STA. 52+30
TYPICAL SECTION**

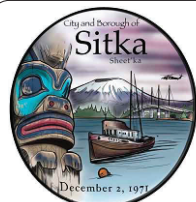


**D KINKEAD ST. STA. 53+00 TO EOP
TYPICAL SECTION**



**E HIRST STREET
TYPICAL SECTION**

MATERIAL SCHEDULE	
SYMBOL	MATERIAL DESCRIPTION
(A)	3"t. AC PAVEMENT
(B)	4"t. BASE COURSE
(C)	12"t. MIN. CLASS A SHOT ROCK BORROW
(D)	USABLE EXCAVATION OR CLASS A SHOT ROCK BORROW. THICKNESS PER ENGINEER.
(E)	4"t. MIN. PCC SIDEWALK, SEE NOTE 10



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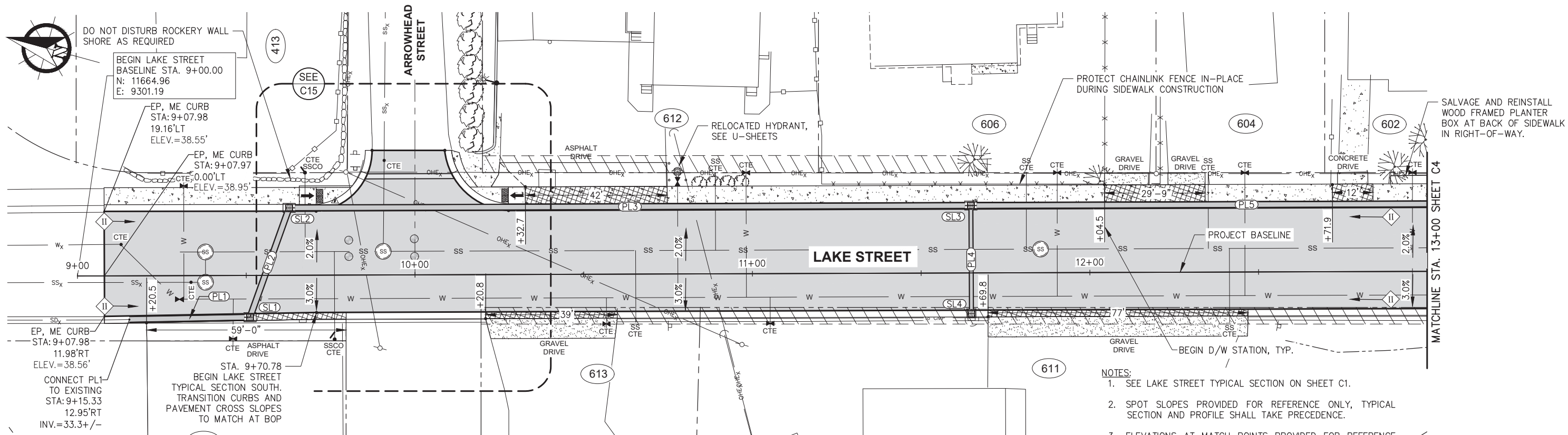
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**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE:
TYPICAL SECTIONS

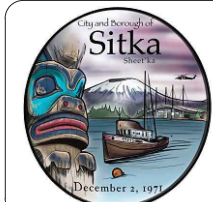
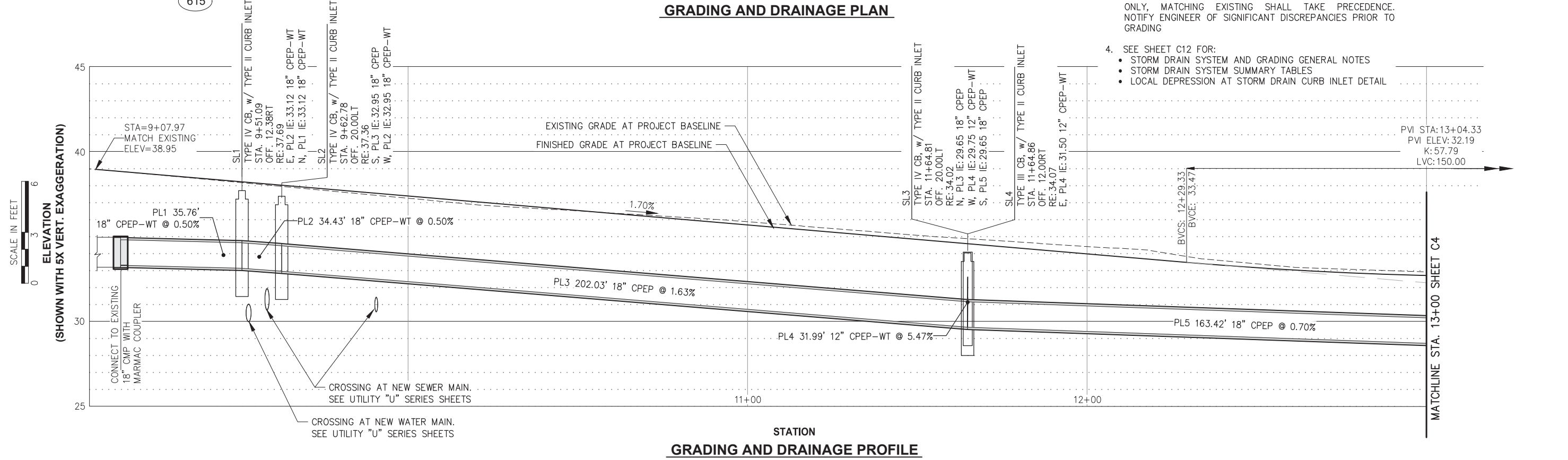
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GRADING AND DRAINAGE PLAN

- NOTES:**
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 - SPOT SLOPES PROVIDED FOR REFERENCE ONLY, TYPICAL SECTION AND PROFILE SHALL TAKE PRECEDENCE.
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 - STORM DRAIN SYSTEM AND GRADING GENERAL NOTES
 - STORM DRAIN SYSTEM SUMMARY TABLES
 - LOCAL DEPRESSION AT STORM DRAIN CURB INLET DETAIL



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**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

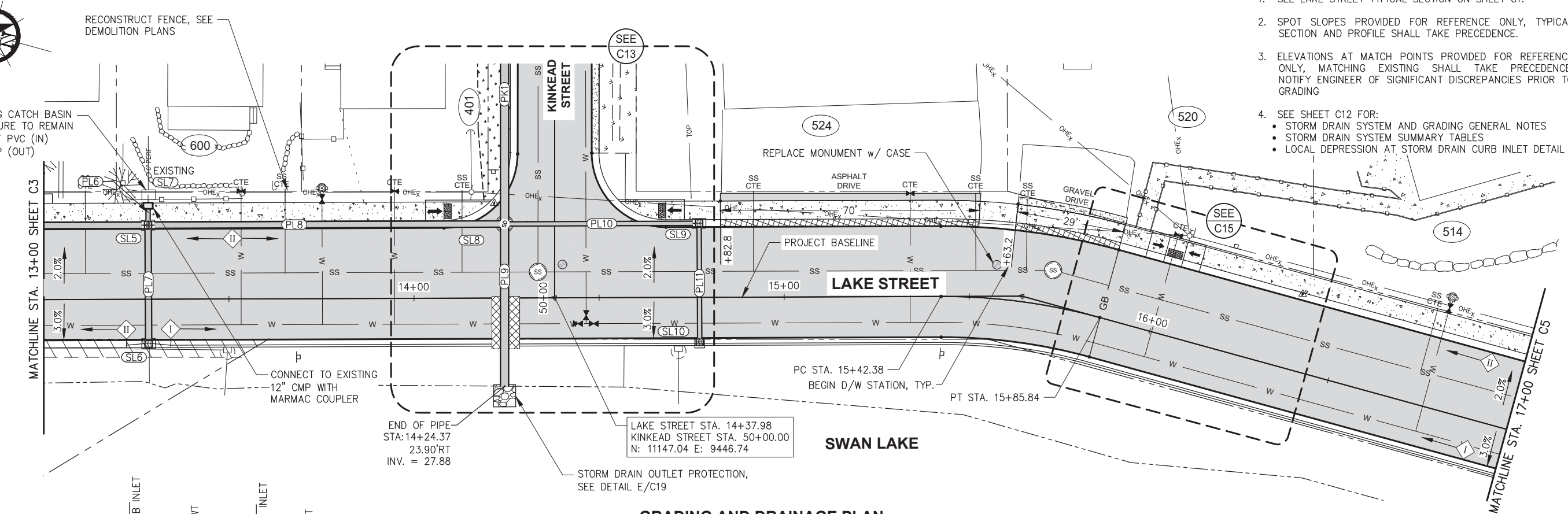
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GRADING AND DRAINAGE
BOP TO STA. 13+00**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

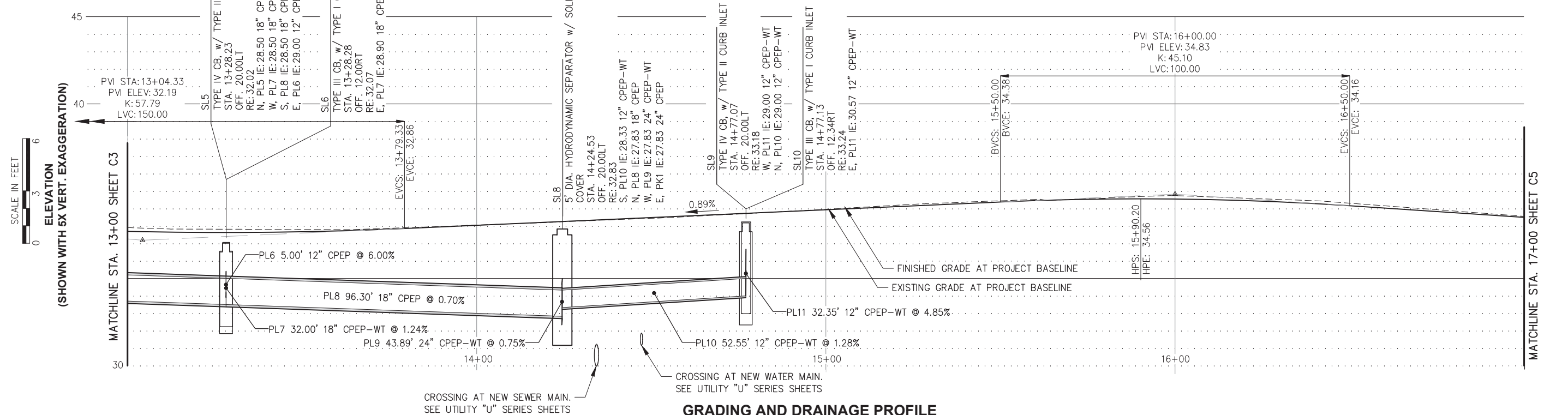
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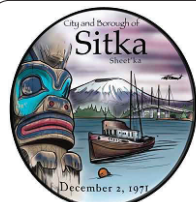
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GRADING AND DRAINAGE PLAN



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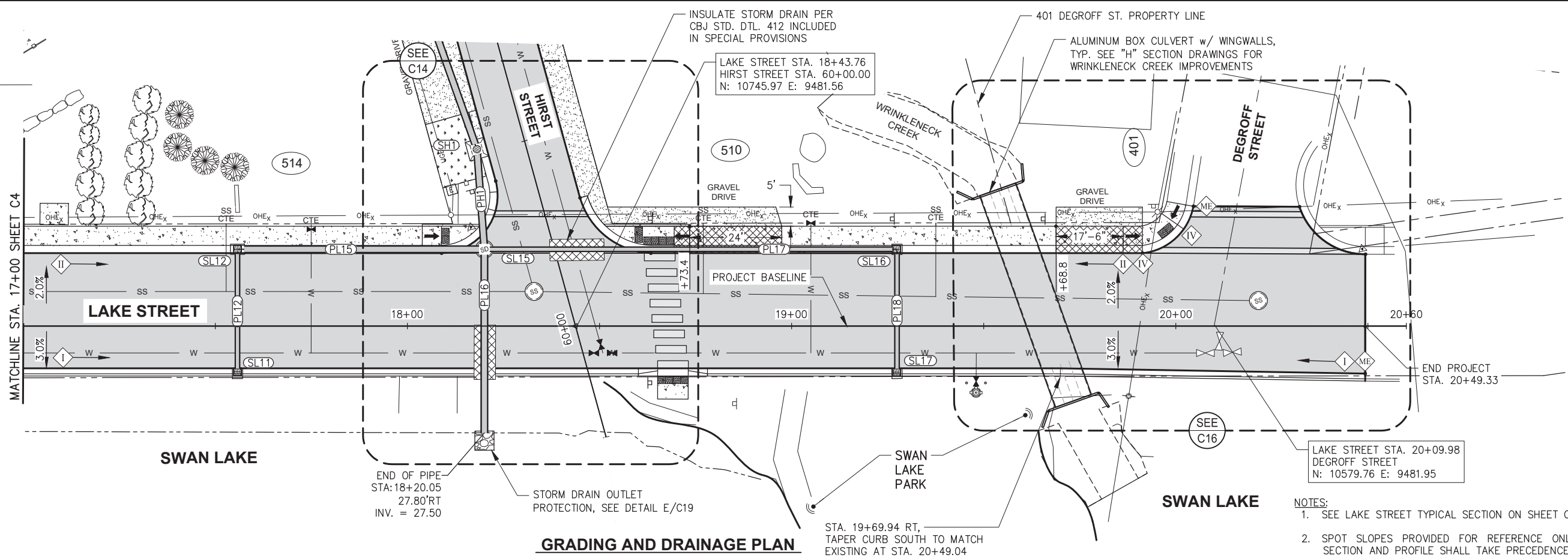
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **LAKE STREET GRADING AND DRAINAGE STA. 13+00 TO STA. 17+00**

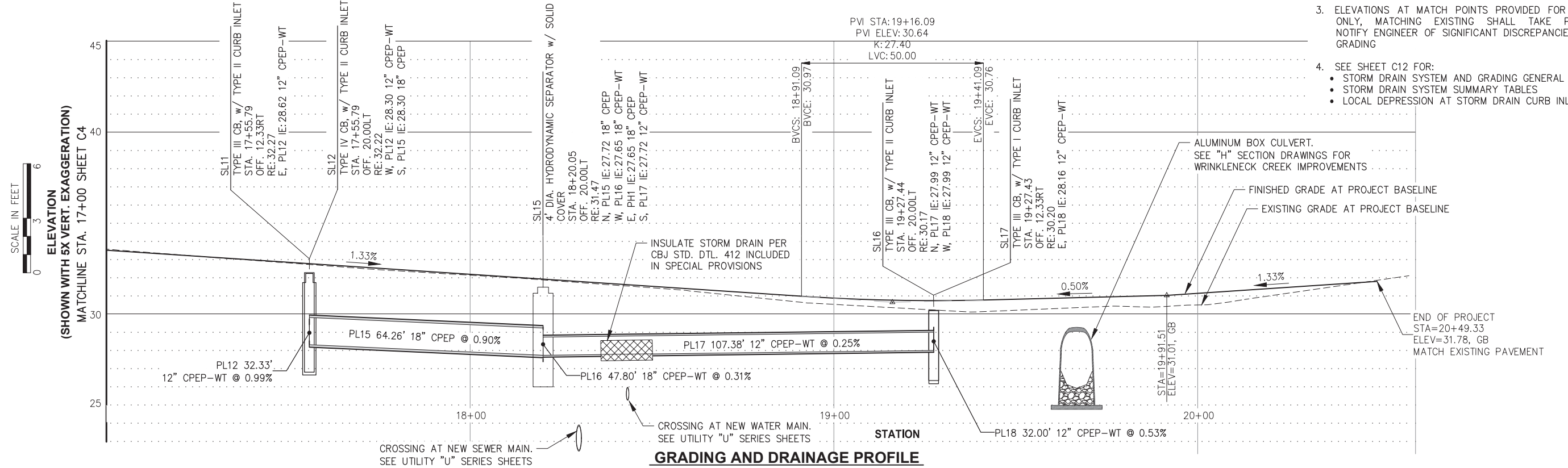
PND PROJECT #: 222100 C.A.N. NO.: AECC250

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CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
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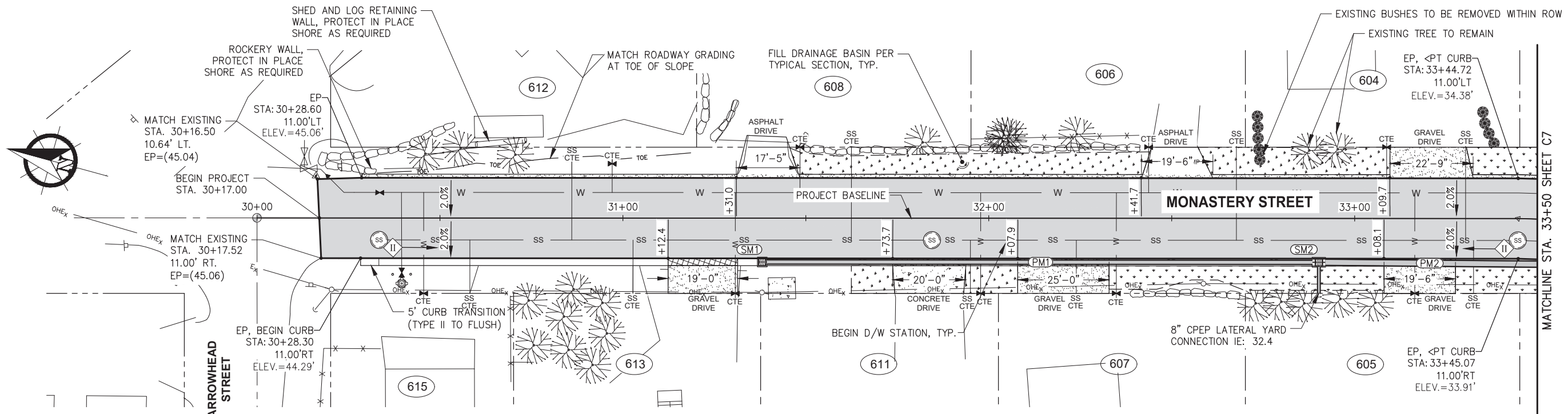
SHEET TITLE: **LAKE STREET GRADING AND DRAINAGE STA. 17+00 TO EOP**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

C5

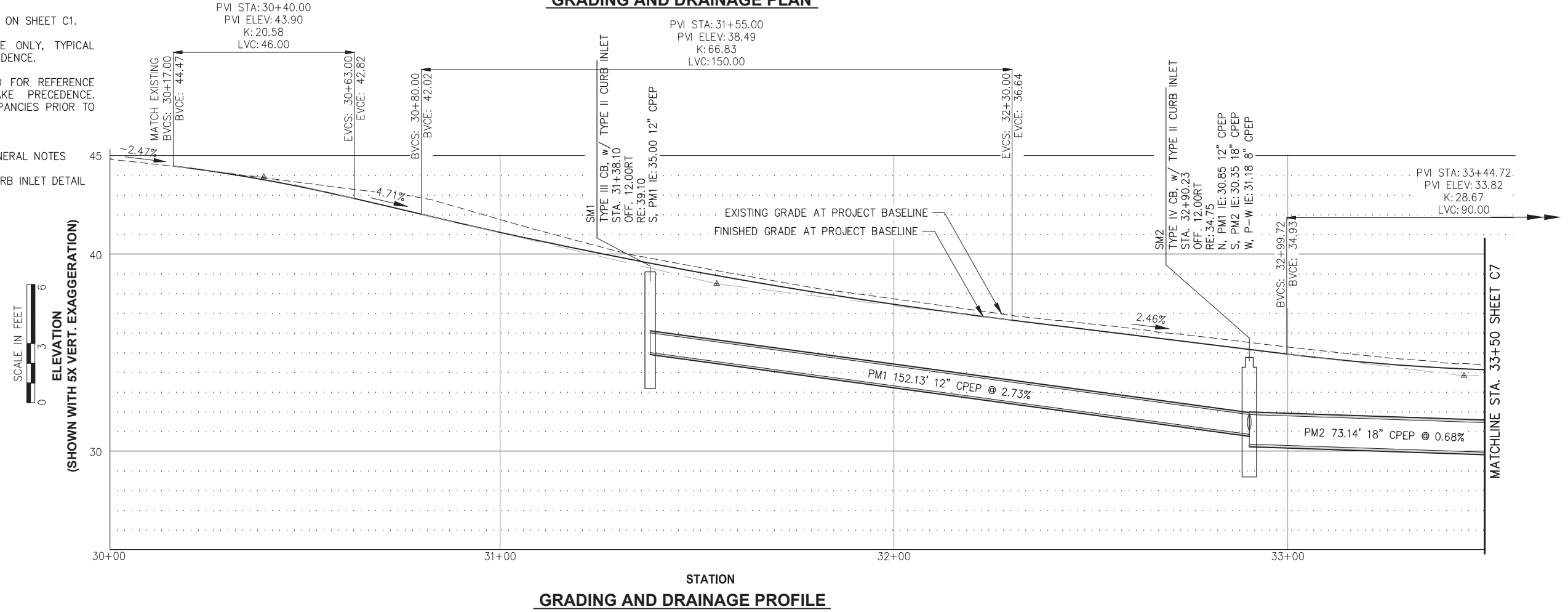
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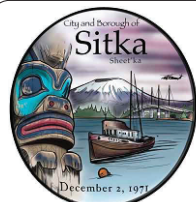


GRADING AND DRAINAGE PLAN

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GRADING AND DRAINAGE PROFILE



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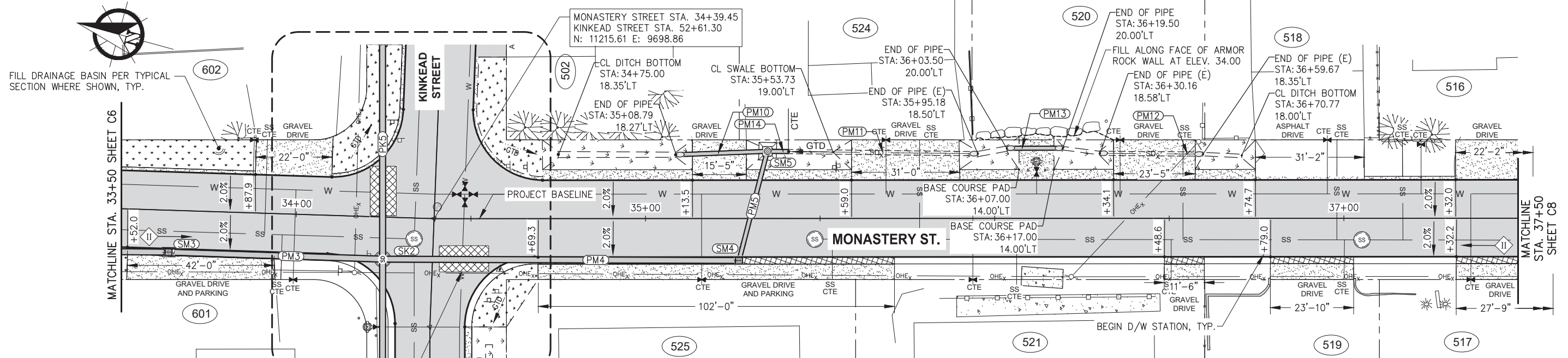
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **MONASTERY STREET**
GRADING AND DRAINAGE
BOP TO STA. 33+50

PND PROJECT #: 222100 C.A.N. NO.: AECC250

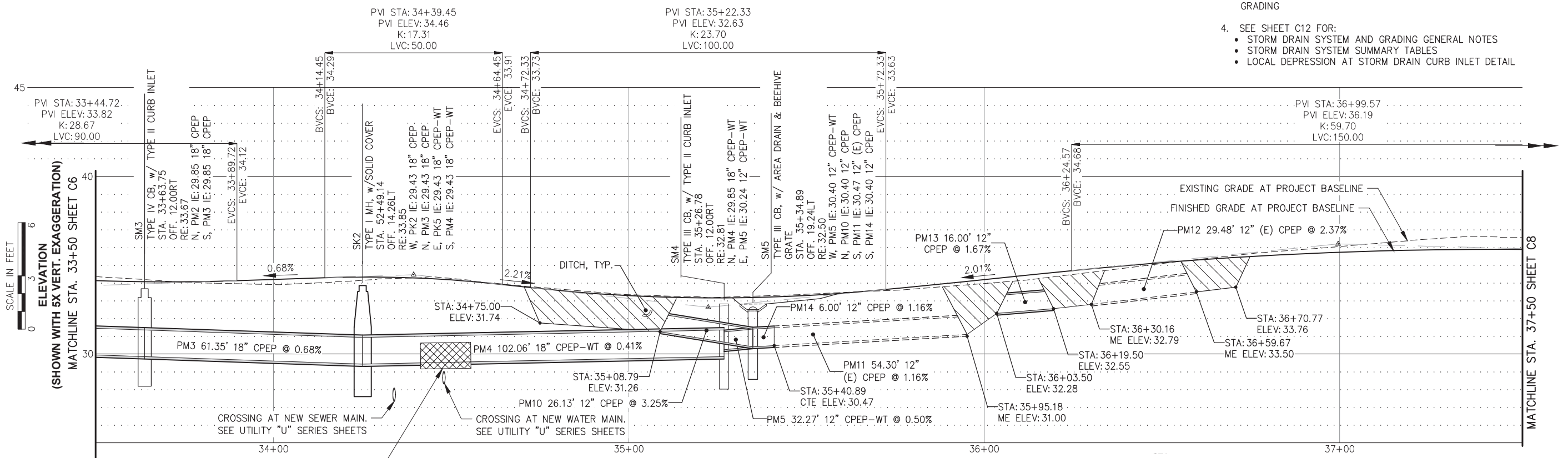
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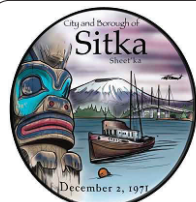


GRADING AND DRAINAGE PLAN

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GRADING AND DRAINAGE PROFILE



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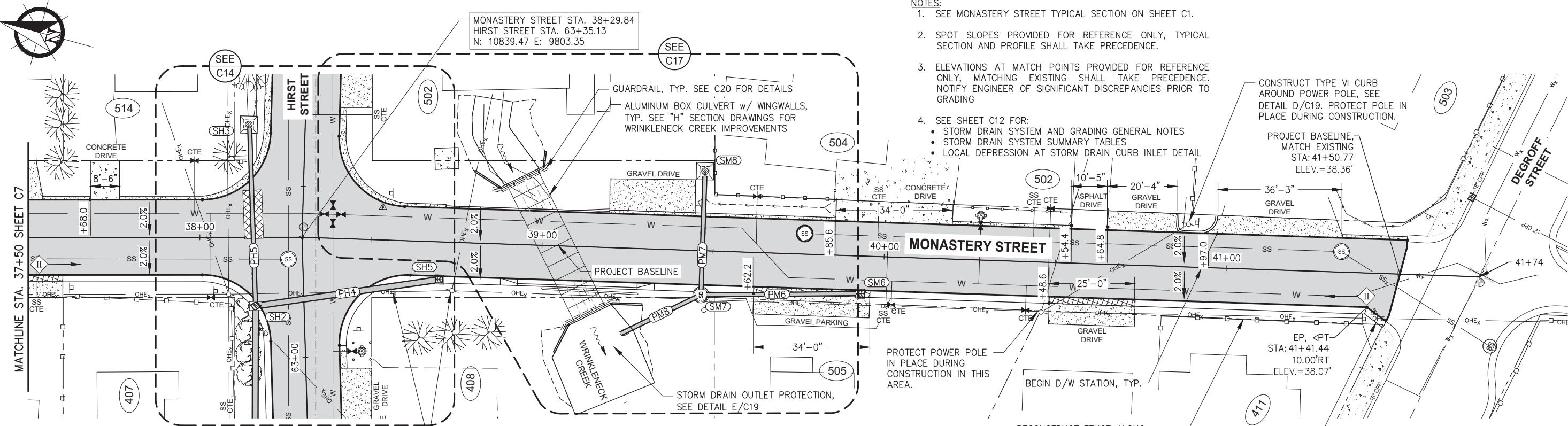
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CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
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SHEET TITLE: **MONASTERY STREET GRADING AND DRAINAGE STA. 33+50 TO STA. 37+50**

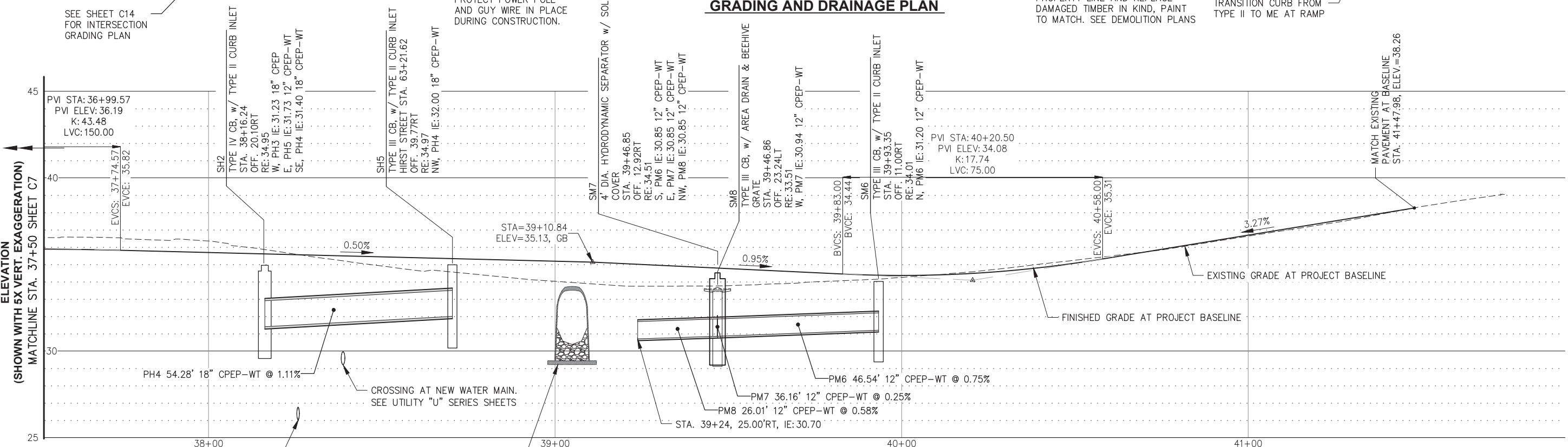
PND PROJECT #: 222100 C.A.N. NO.: AECC250

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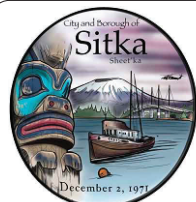


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GRADING AND DRAINAGE PLAN



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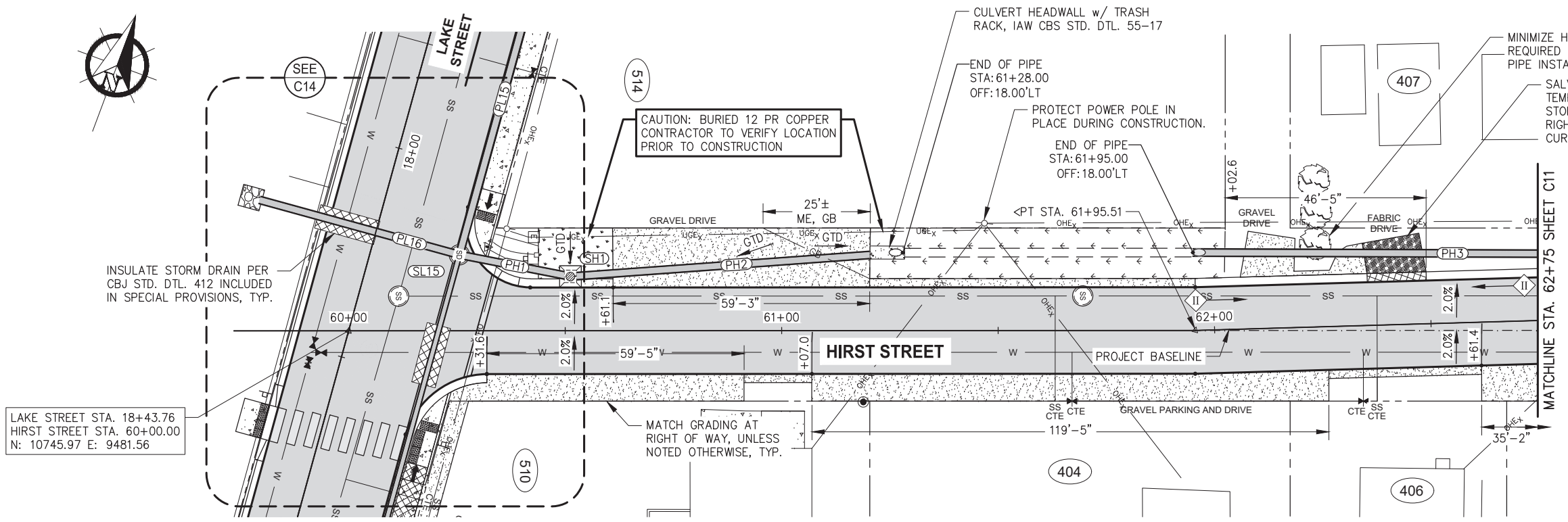
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**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **MONASTERY STREET
 GRADING AND DRAINAGE
 STA. 37+50 TO EOP**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

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LAKE STREET STA. 18+43.76
HIRST STREET STA. 60+00.00
N: 10745.97 E: 9481.56

INSULATE STORM DRAIN PER
CBJ STD. DTL. 412 INCLUDED
IN SPECIAL PROVISIONS, TYP.

CAUTION: BURIED 12 PR COPPER
CONTRACTOR TO VERIFY LOCATION
PRIOR TO CONSTRUCTION

CULVERT HEADWALL w/ TRASH
RACK, IAW CBS STD. DTL. 55-17

END OF PIPE
STA: 61+28.00
OFF: 18.00'LT

END OF PIPE
STA: 61+95.00
OFF: 18.00'LT

PROTECT POWER POLE IN
PLACE DURING CONSTRUCTION.

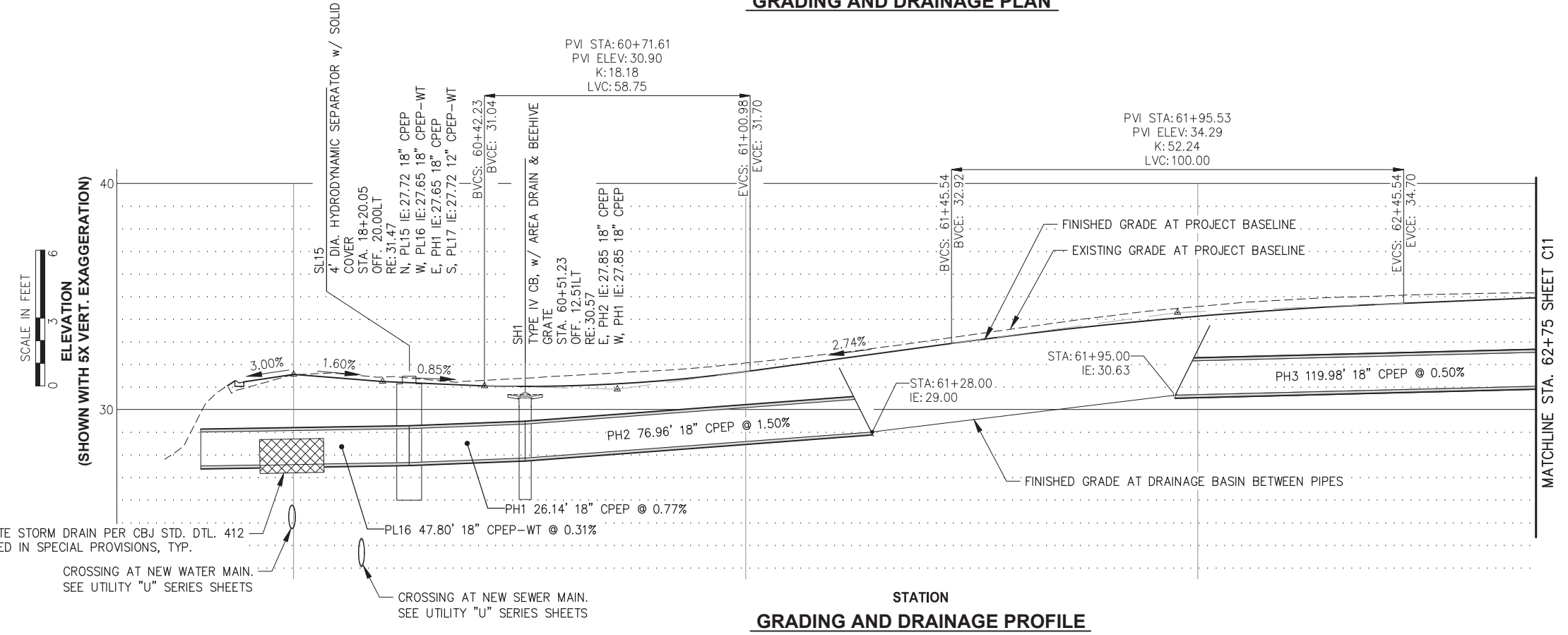
MINIMIZE HEDGE REMOVAL
REQUIRED FOR STORM DRAIN
PIPE INSTALLATION.

SALVAGE DRIVEWAY FABRIC AND
TEMPORARILY RELOCATE TO FACILITATE
STORM DRAIN CONSTRUCTION WITHIN
RIGHT-OF-WAY. REINSTALL TO BACK OF
CURB, TRIM LENGTH AS REQUIRED.

MATCH GRADING AT
RIGHT OF WAY, UNLESS
NOTED OTHERWISE, TYP.

GRADING AND DRAINAGE PLAN

- NOTES:**
- SEE HIRST STREET TYPICAL SECTION ON SHEET C2.
 - SPOT SLOPES PROVIDED FOR REFERENCE ONLY, TYPICAL SECTION AND PROFILE SHALL TAKE PRECEDENCE.
 - ELEVATIONS AT MATCH POINTS PROVIDED FOR REFERENCE ONLY, MATCHING EXISTING SHALL TAKE PRECEDENCE. NOTIFY ENGINEER OF SIGNIFICANT DISCREPANCIES PRIOR TO GRADING
 - SEE SHEET C12 FOR:
 - STORM DRAIN SYSTEM AND GRADING GENERAL NOTES
 - STORM DRAIN SYSTEM SUMMARY TABLES
 - LOCAL DEPRESSION AT STORM DRAIN CURB INLET DETAIL



SCALE IN FEET
ELEVATION
(SHOWN WITH 5X VERT. EXAGGERATION)

INSULATE STORM DRAIN PER CBJ STD. DTL. 412
INCLUDED IN SPECIAL PROVISIONS, TYP.

CROSSING AT NEW WATER MAIN.
SEE UTILITY "U" SERIES SHEETS

CROSSING AT NEW SEWER MAIN.
SEE UTILITY "U" SERIES SHEETS

GRADING AND DRAINAGE PROFILE

City and Borough of Sitka
DEPARTMENT OF
PUBLIC WORKS
100 LINCOLN STREET SITKA, ALASKA 99835
TEL (907) 747-1804 FAX (907) 747-3158

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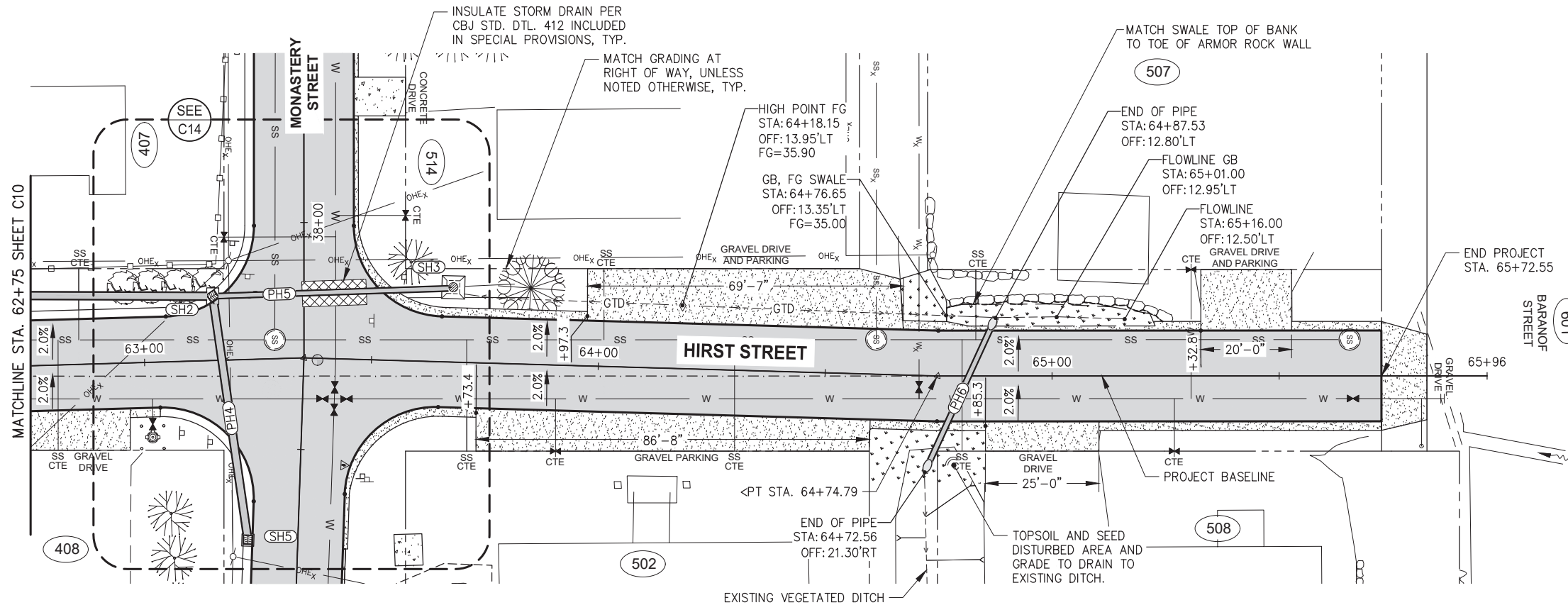
**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE: **HIRST STREET
GRADING AND DRAINAGE
BOP TO STA. 62+75**

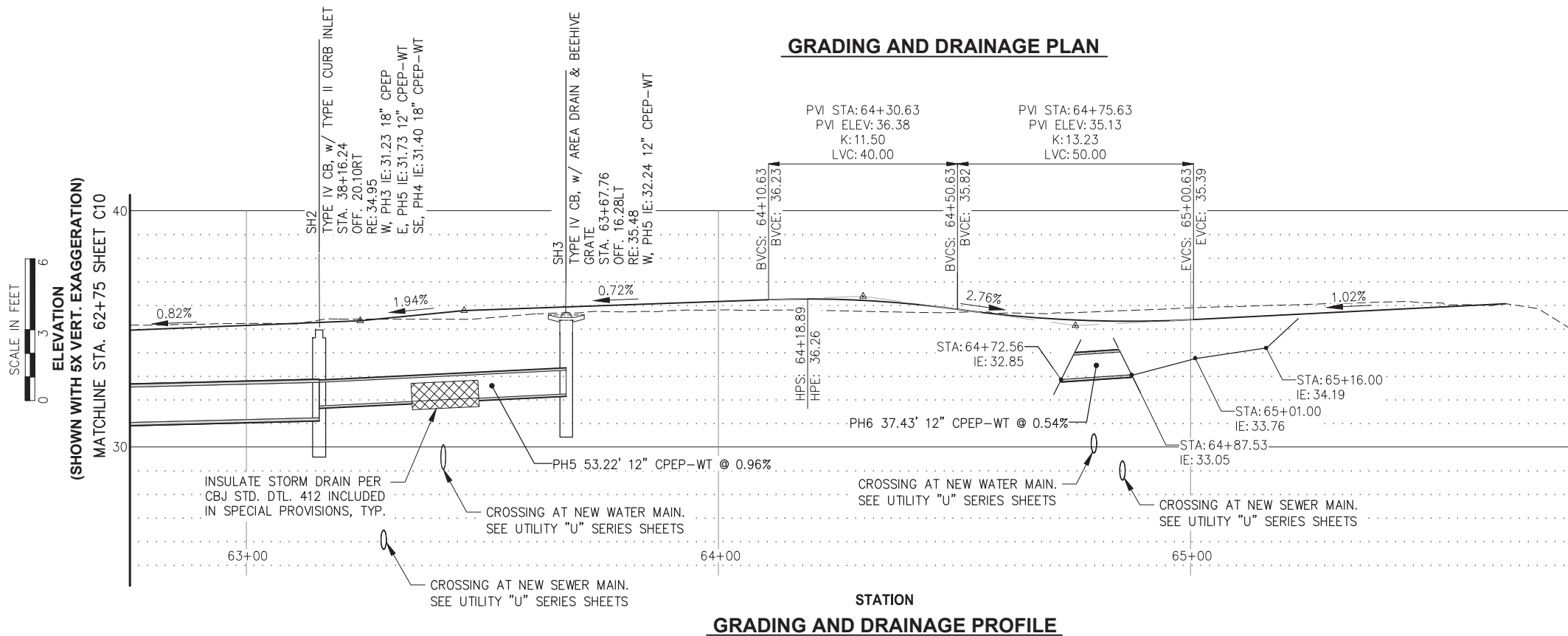
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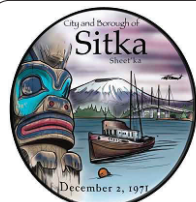
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GRADING AND DRAINAGE PLAN



- NOTES:**
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 - STORM DRAIN SYSTEM SUMMARY TABLES
 - LOCAL DEPRESSION AT STORM DRAIN CURB INLET DETAIL



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CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **HIRST STREET GRADING AND DRAINAGE STA. 62+75 TO EOP**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

C11

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STORM DRAIN STRUCTURES				
STRUCTURE	STATION	OFFSET	RIM ELEV.	TYPE
SL1	9+51.09	12.38 RT.	37.69	TYPE IV CB, w/ TYPE II CURB INLET
SL2	9+62.78	20.00 LT.	37.36	TYPE IV CB, w/ TYPE II CURB INLET
SL3	11+64.81	20.00 LT.	34.02	TYPE IV CB, w/ TYPE II CURB INLET
SL4	11+64.86	12.00 RT.	34.07	TYPE III CB, w/ TYPE II CURB INLET
SL5	13+28.23	20.00 LT.	32.02	TYPE IV CB, w/ TYPE II CURB INLET
SL6	13+28.28	12.00 RT.	32.07	TYPE III CB, w/ TYPE I CURB INLET
SL7	13+28.41	28.21 LT.	32.13	EXISTING CB TO REMAIN
SL8	14+24.53	20.00 LT.	32.83	5' DIA. HYDRODYNAMIC SEPARATOR w/ SOLID COVER
SL9	14+77.07	20.00 LT.	33.18	TYPE IV CB, w/ TYPE II CURB INLET
SL10	14+77.13	12.34 RT.	33.24	TYPE III CB, w/ TYPE I CURB INLET
SL12	17+55.79	20.00 LT.	32.22	TYPE IV CB, w/ TYPE II CURB INLET
SL11	17+55.79	12.33 RT.	32.27	TYPE III CB, w/ TYPE II CURB INLET
SL15	18+20.05	20.00 LT.	31.47	4' DIA. HYDRODYNAMIC SEPARATOR w/ SOLID COVER
SL17	19+27.43	12.33 RT.	30.20	TYPE III CB, w/ TYPE I CURB INLET
SL16	19+27.44	20.00 LT.	30.17	TYPE III CB, w/ TYPE II CURB INLET
SM1	31+38.10	12.00 RT.	39.10	TYPE III CB, w/ TYPE II CURB INLET
SM2	32+90.23	12.00 RT.	34.75	TYPE IV CB, w/ TYPE II CURB INLET
SM3	33+63.75	12.00 RT.	33.67	TYPE IV CB, w/ TYPE II CURB INLET
SM4	35+26.78	12.00 RT.	32.81	TYPE III CB, w/ TYPE II CURB INLET
SM5	35+34.89	19.24 LT.	32.50	TYPE III CB, w/ AREA DRAIN & BEEHIVE GRATE
SH2	38+16.24	20.10 RT.	34.95	TYPE IV CB, w/ TYPE II CURB INLET
SM7	39+46.85	12.92 RT.	34.51	4' DIA. HYDRODYNAMIC SEPARATOR w/ SOLID COVER
SM8	39+46.86	23.24 LT.	33.51	TYPE III CB, w/ AREA DRAIN & BEEHIVE GRATE
SM6	39+93.35	11.00 RT.	34.01	TYPE III CB, w/ TYPE II CURB INLET
SK1	50+90.06	13.56 LT.	31.56	TYPE I MH, w/ AREA DRAIN & BEEHIVE GRATE
SK2	52+49.14	14.26 LT.	33.85	TYPE I MH, w/SOLID COVER
SH1	60+51.23	12.51 LT.	30.57	TYPE IV CB, w/ AREA DRAIN & BEEHIVE GRATE
SH5	63+21.62	39.77 RT.	34.97	TYPE III CB, w/ TYPE II CURB INLET
SH3	63+67.76	16.28 LT.	35.48	TYPE IV CB, w/ AREA DRAIN & BEEHIVE GRATE

TABLE ABBREVIATIONS:

CB	= CATCH BASIN
CPEP-WT	= CORRUGATED POLYETHYLENE PIPE-WATER TIGHT
CTE	= CONNECT TO EXISTING
DIA	= DIAMETER
EOP	= END OF PIPE
HDWL	= HEADWALL, TYPE SHOWN ON PLANS
MH	= MANHOLE
w/	= WITH

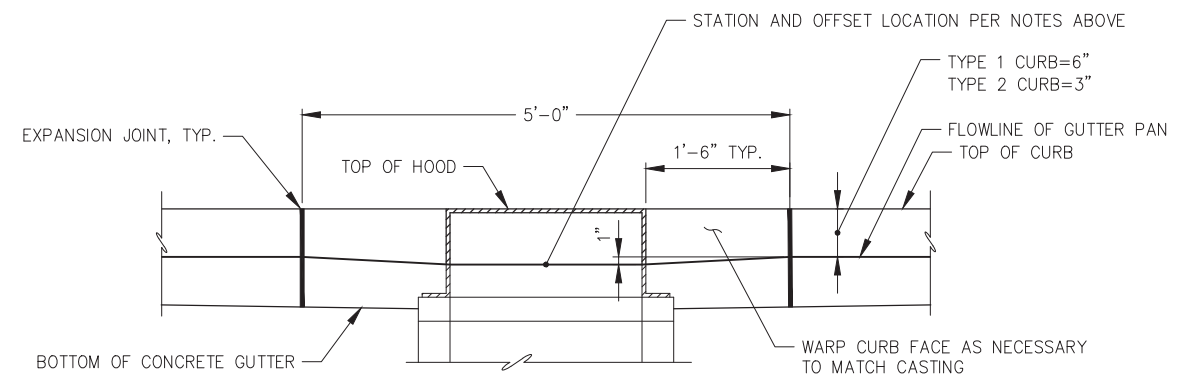
STORM DRAIN PIPE						
PIPE	TYPE	LENGTH	FROM	INVERT	TO	INVERT
PH1	18" CPEP	26.14'	SH1	27.85	SL15	27.65
PH2	18" CPEP	76.96'	HDWL	29.00	SH1	27.85
PH3	18" CPEP	119.98'	SH2	31.23	EOP	30.63
PH4	18" CPEP-WT	54.28'	SH5	32.00	SH2	31.40
PH5	12" CPEP-WT	53.22'	SH3	32.24	SH2	31.73
PH6	12" CPEP-WT	37.43'	EOP	33.05	EOP	32.85
PK1	24" CPEP	70.12'	SK1	28.41	SL8	27.83
PK2	18" CPEP	159.61'	SK2	29.43	SK1	28.51
PK3	18" CPEP-WT	29.16'	HDWL	28.89	SK1	28.51
PK4	12" CPEP	34.38'	EOP	29.80	EOP	29.32
PK5	18" CPEP-WT	68.90'	HDWL	32.50	SK2	29.43
PK6	18" CPEP-WT	32.07'	EOP	33.73	EOP	33.40
PL1	18" CPEP-WT	35.76'	CTE	33.30	SL1	33.10
PL2	18" CPEP-WT	34.43'	SL1	33.10	SL2	32.75
PL3	18" CPEP	202.03'	SL2	32.75	SL3	29.65
PL4	12" CPEP-WT	31.99'	SL4	30.07	SL3	29.75
PL5	18" CPEP	163.42'	SL3	29.65	SL5	28.50
PL6	12" CPEP	5.00'	CTE	29.30	SL5	29.00
PL7	18" CPEP-WT	32.00'	SL6	28.90	SL5	28.50
PL8	18" CPEP	96.30'	SL5	28.50	SL8	27.83
PL9	24" CPEP-WT	43.89'	SL8	27.83	EOP	27.50
PL10	12" CPEP-WT	52.55'	SL9	29.00	SL8	28.33
PL11	12" CPEP-WT	32.35'	SL10	29.25	SL9	29.00
PL12	12" CPEP-WT	32.33'	SL11	28.62	SL12	28.30
PL15	18" CPEP	64.26'	SL12	28.30	SL15	27.72
PL16	18" CPEP-WT	47.80'	SL15	27.65	EOP	27.50
PL17	12" CPEP-WT	107.38'	SL16	27.99	SL15	27.72
PL18	12" CPEP-WT	32.00'	SL17	28.16	SL16	27.99
PM1	12" CPEP	152.13'	SM1	35.00	SM2	30.85
PM2	18" CPEP	73.14'	SM2	30.35	SM3	29.85
PM3	18" CPEP	61.35'	SM3	29.85	SK2	29.43
PM4	18" CPEP-WT	102.06'	SM4	29.85	SK2	29.43
PM5	12" CPEP-WT	32.27'	SM5	30.40	SM4	30.24
PM6	12" CPEP-WT	46.54'	SM6	31.20	SM7	30.85
PM7	12" CPEP-WT	36.16'	SM8	30.94	SM7	30.85
PM8	12" CPEP-WT	26.01'	SM7	30.85	EOP	30.70
PM10	12" CPEP	26.13'	EOP	31.25	SM5	30.40
PM11	12" (E) CPEP	54.30'	EOP	31.10	CTE	30.47
PM12	12" (E) CPEP	29.48'	EOP	33.50	EOP	32.80
PM13	12" CPEP	16.00'	EOP	32.55	EOP	32.28
PM14	12" CPEP	6.00'	CTE	30.47	SM5	30.40

STORM DRAIN SYSTEM AND GRADING GENERAL NOTES:

- MINOR FIELD ADJUSTMENTS SHALL BE MADE TO SIDEWALK WIDTH AND GRADE TO MINIMIZE IMPACTS TO PRIVATE PROPERTY PER ENGINEER DIRECTION.
- TYPE I MANHOLE IAW CBS STD. DTL. 55-3.
- TYPE III CATCH BASIN IAW CBJ STD. DTL. 304A AND TYPE IV CATCH BASIN IAW CBJ STD. DTL. 304B, SEE SPECIAL PROVISIONS.
- RIM ELEVATIONS AND OFFSETS FOR CURB INLETS REFERENCE THE CURB FLOWLINE AT CENTERLINE OF CATCH BASIN AND REFLECT A LOCAL DEPRESSION OF 1", SEE LOCAL DEPRESSION DETAIL.
- POINTS AND RIM ELEVATIONS FOR MANHOLES LOCATED OUTSIDE OF CURBS REFERENCE THE CENTER OF STRUCTURE. POINTS AND GRATE ELEVATIONS FOR AREA DRAINS ARE PER DETAIL 2/C18.
- GRADE ADJUSTMENTS FOR NEW & EXISTING MANHOLES WITHIN ACP SHALL BE WITH EJIW "INFRA-RISER" 1"t. MIN. REQUIRED, 3"t MAX. RINGS SHALL BE TAPERED OR SHIMMED TO MATCH GRADE.
- CONTRACTOR SHALL REMOVE EXISTING DRIVEWAY/WALKWAY SURFACE TREATMENTS TO RIGHT-OF-WAY, UNO. REGRADE SUBBASE, AND REPLACE IN-KIND AT THE DIRECTION OF THE ENGINEER. CONTRACTOR SHALL SAWCUT IMPROVEMENTS AT LIMITS OF EXCAVATION WHERE APPLICABLE. TYPICAL ALL DRIVEWAYS AND PRIVATE WALKWAYS, UNO.
- SEE PIPE AND STRUCTURE DETAILS IN THE U SHEETS.
- ONLY WATER AND SEWER PIPES CROSSING STORM DRAIN ARE SHOWN IN PROFILE VIEW, SHEETS C3-C11.
- HATCHED SIDEWALK OR CURB AND GUTTER IAW CBS STD. DTL. 30-5 MODIFIED. SEE SPECIAL PROVISIONS.

STORM DRAIN SYSTEM TABLE NOTES:

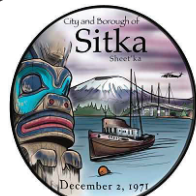
- RIM ELEVATIONS AND OFFSETS FOR CURB INLETS REFERENCE THE CURB FLOWLINE AT CENTERLINE OF CATCH BASIN AND REFLECT A LOCAL DEPRESSION OF 1", SEE LOCAL DEPRESSION DETAIL.
- POINTS AND RIM ELEVATIONS FOR STRUCTURES LOCATED OUTSIDE OF CURBS REFERENCE THE CENTER OF STRUCTURE.
- TYPE I CURB INLET SHALL BE EJIW 7022 FRAME, M2 GRATE AND T1 BACK. TYPE II CURB INLET SHALL BE EJIW 7022 FRAME, M2 GRATE AND T4 BACK.
- SOLID COVER SHALL BE EJIW 3710 "STORM".
- BEEHIVE FRAME AND GRATE SHALL BE AS SHOWN IN AREA DRAIN DETAIL.



LOCAL DEPRESSION AT STORM DRAIN CURB INLET

REVISIONS

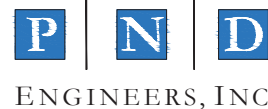
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City and Borough of Sitka

DEPARTMENT OF PUBLIC WORKS

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CITY AND BOROUGH OF SITKA, ALASKA
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UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

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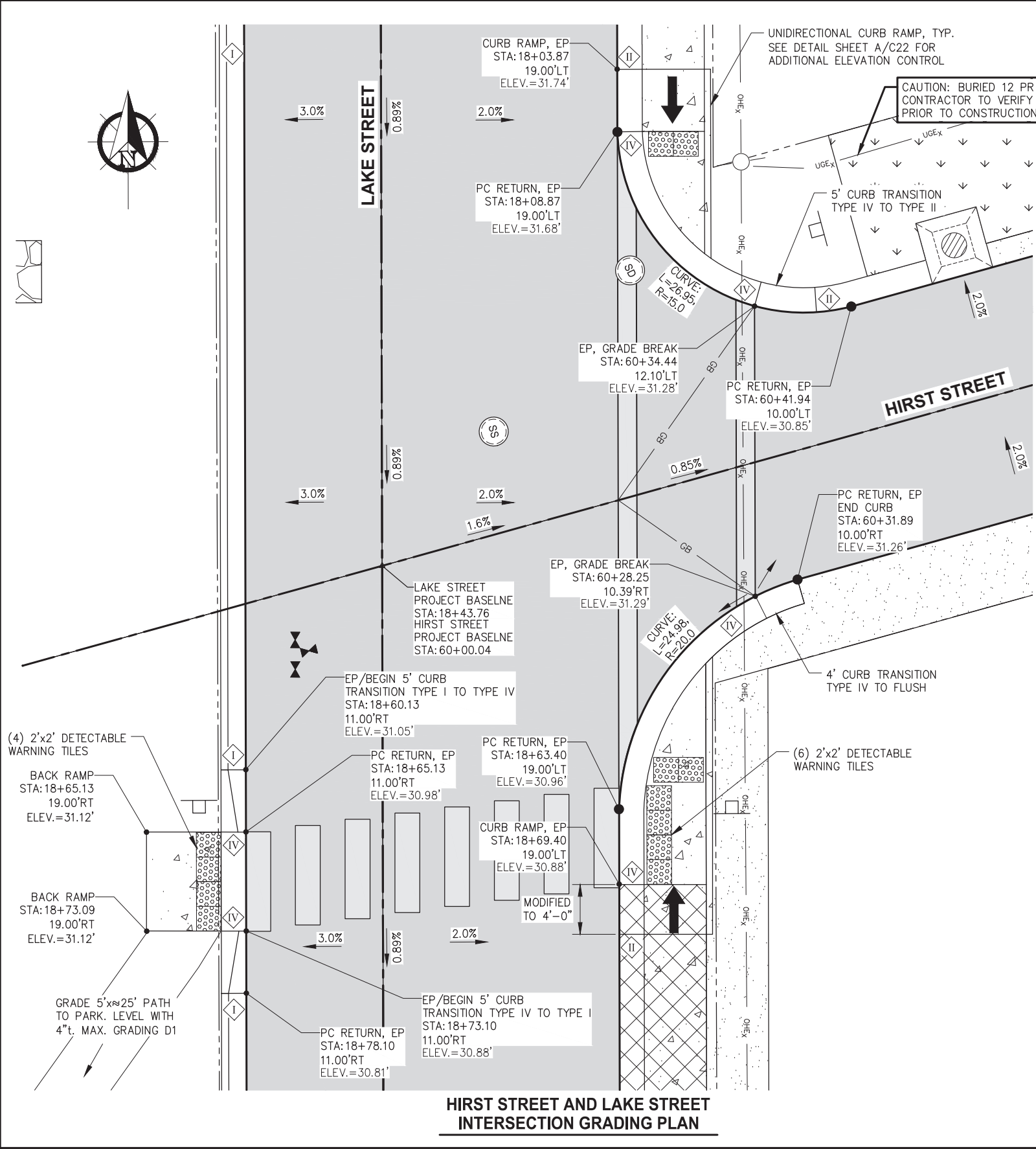
STORM DRAIN SYSTEM SUMMARY

C12

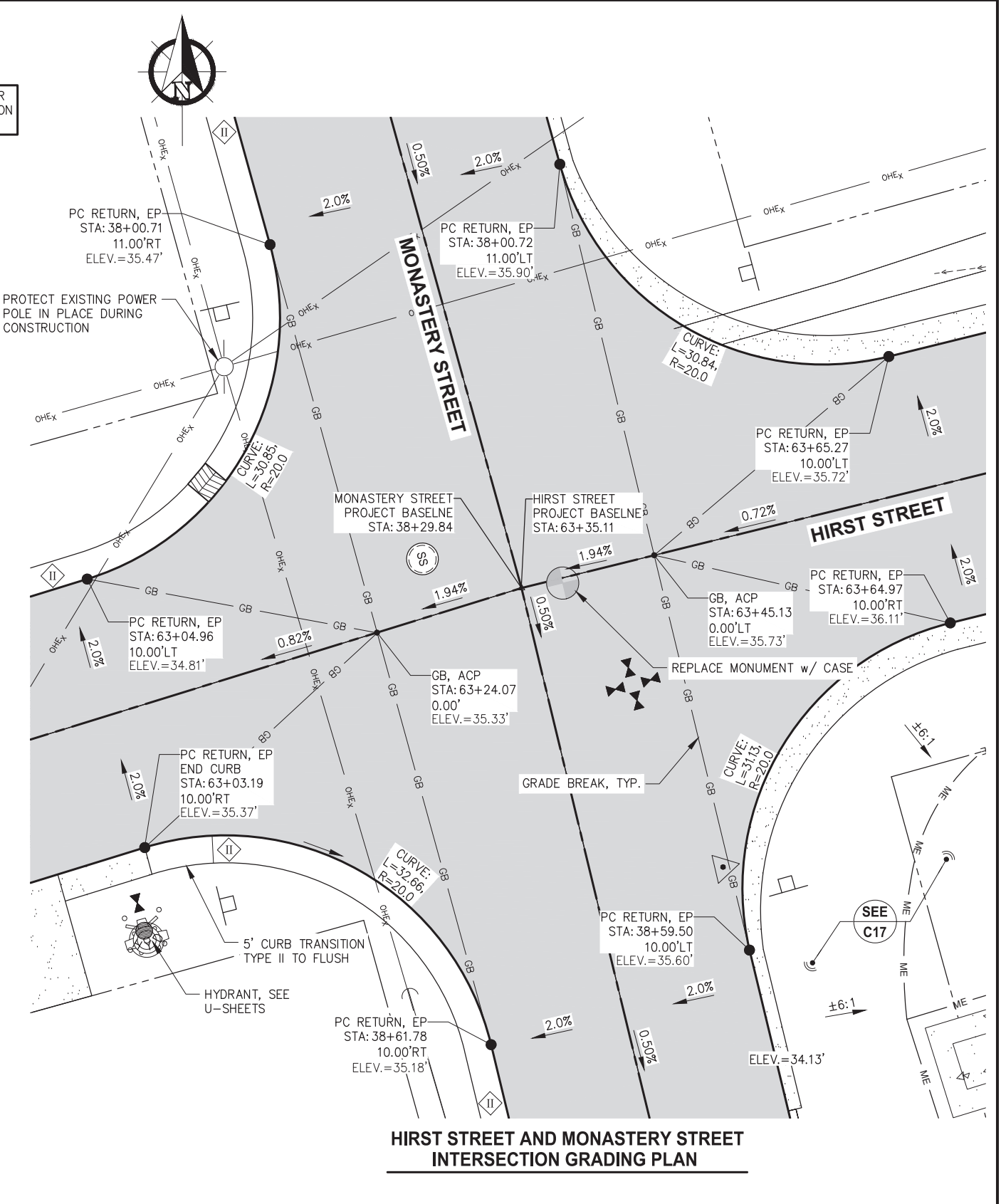
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C.A.N. NO.: AECC250

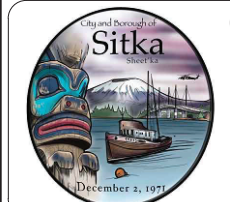
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HIRST STREET AND LAKE STREET INTERSECTION GRADING PLAN



HIRST STREET AND MONASTERY STREET INTERSECTION GRADING PLAN



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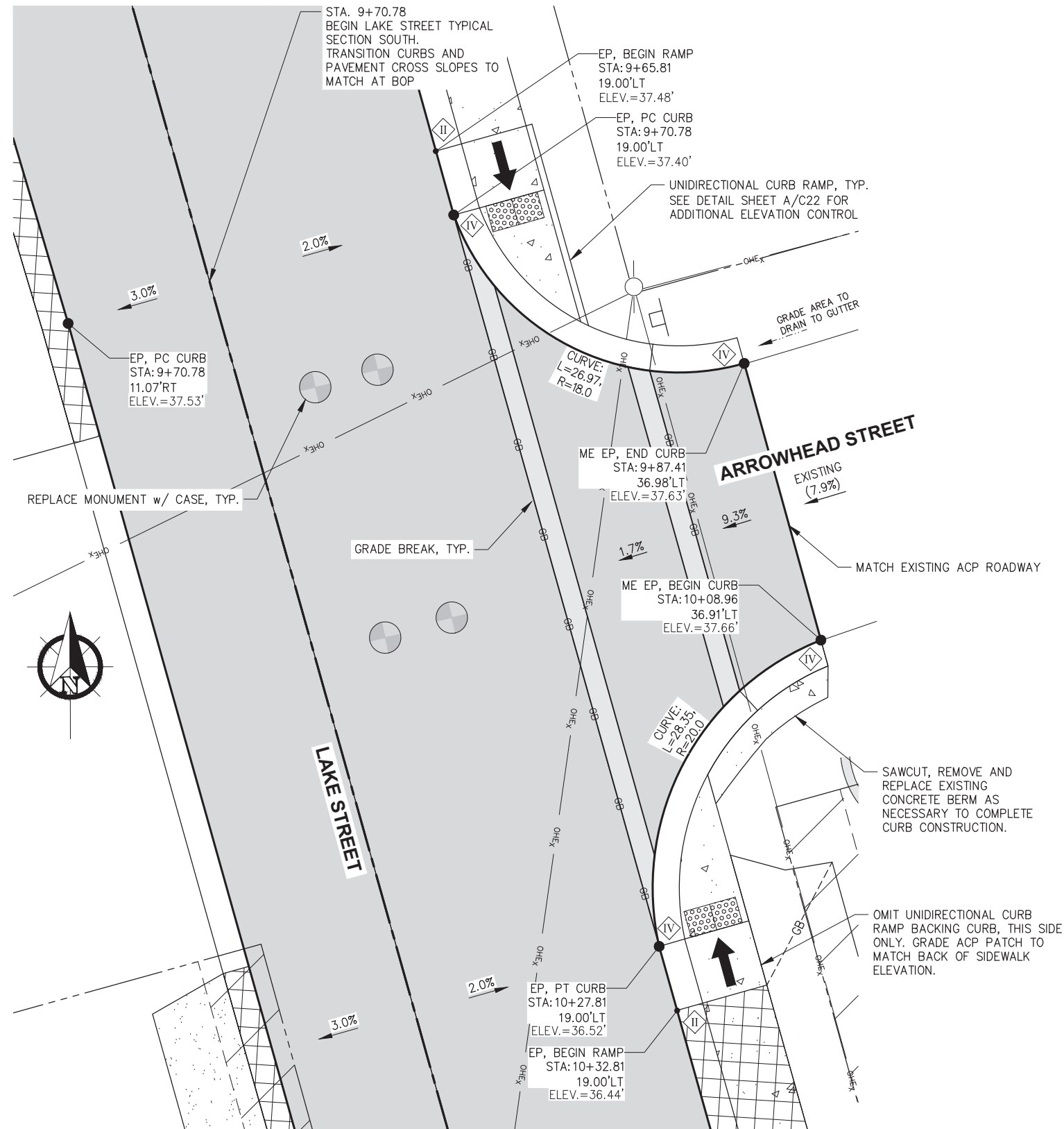
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SHEET TITLE:
DETAILED GRADING PLANS

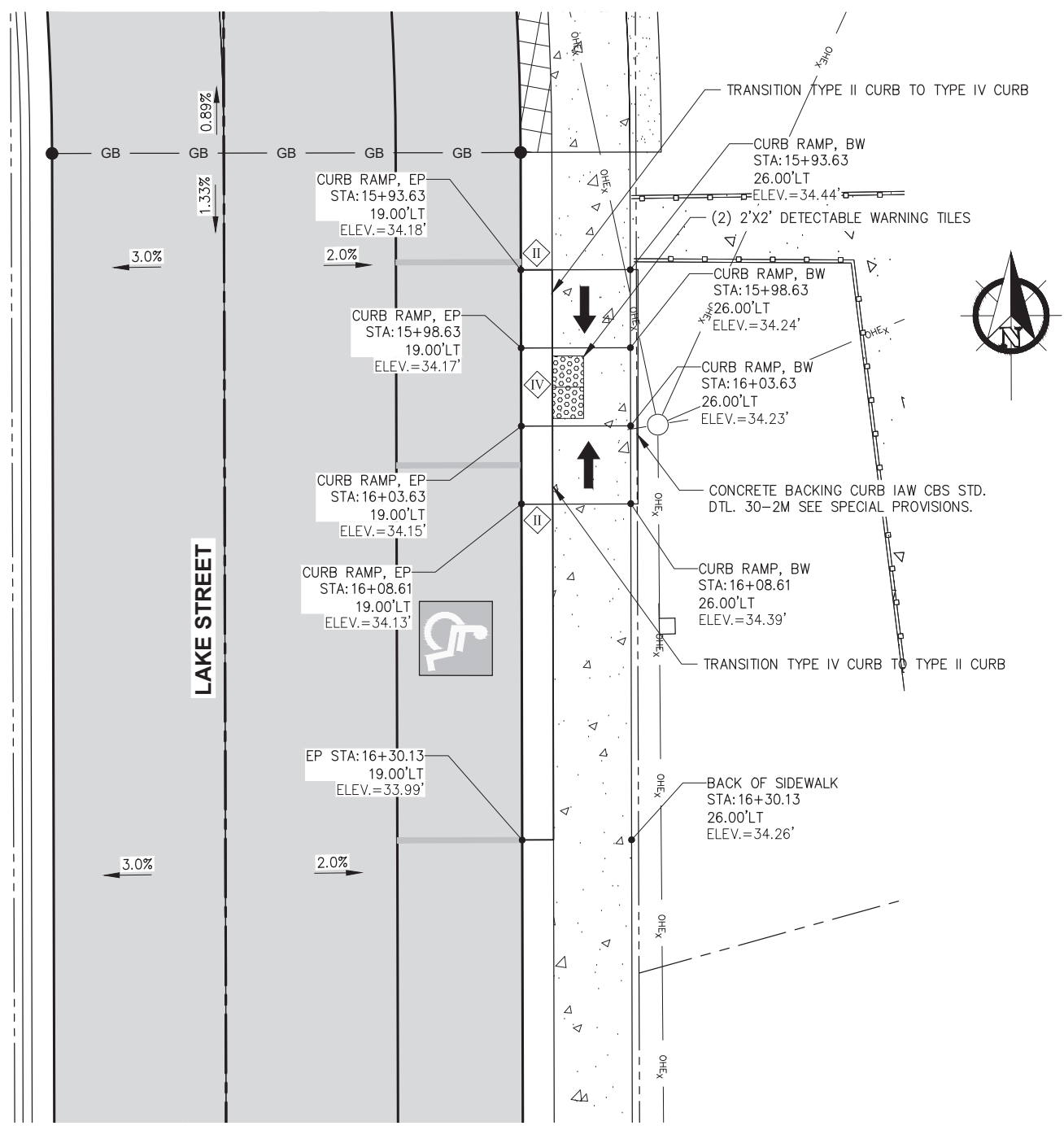
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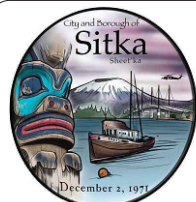
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LAKE STREET AND ARROWHEAD STREET INTERSECTION GRADING PLAN



ACCESSIBLE RAMP AT ACCESSIBLE PARKING GRADING PLAN



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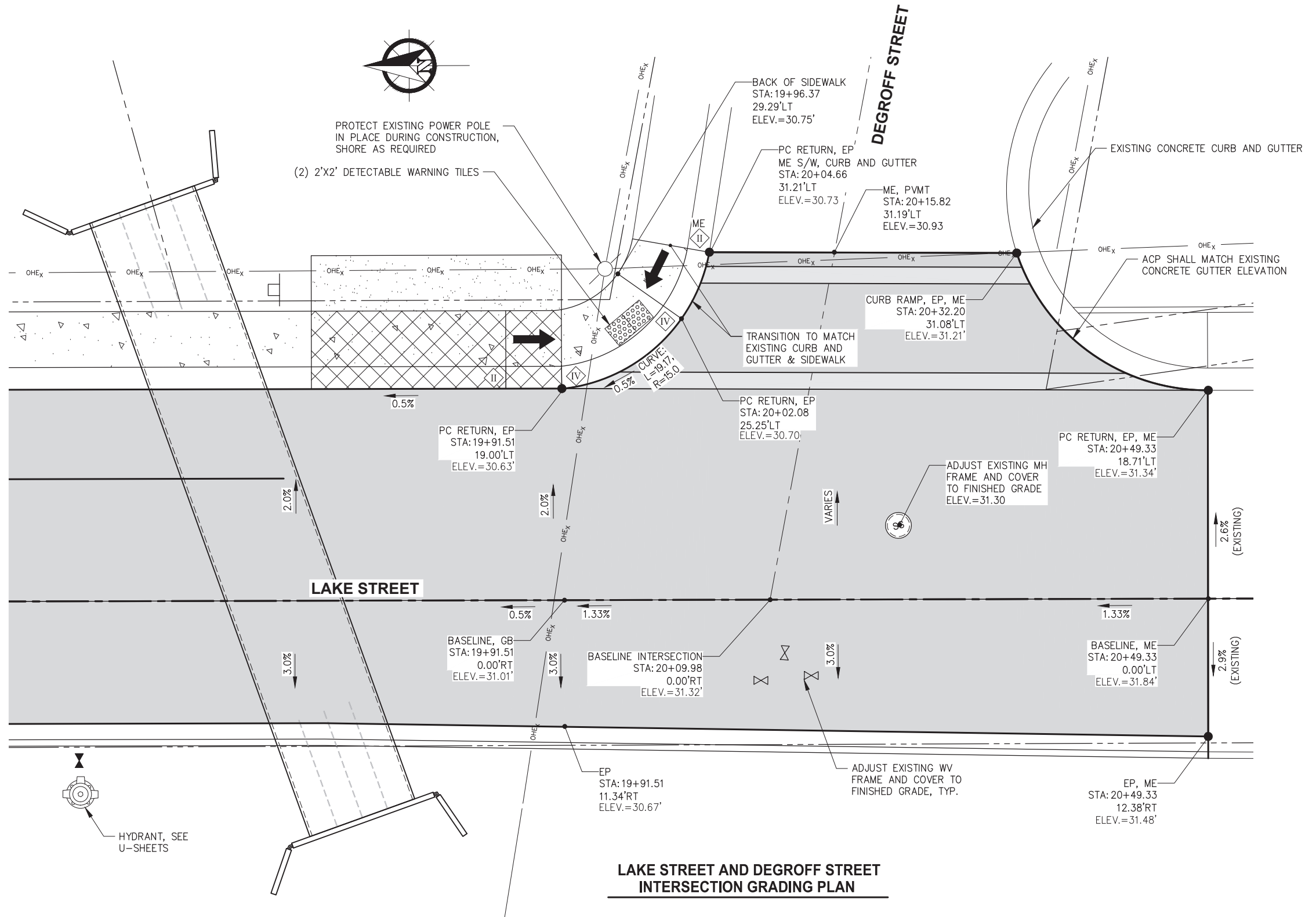
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LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
DETAILED GRADING PLANS

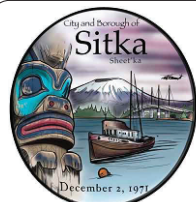
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LAKE STREET AND DEGROFF STREET INTERSECTION GRADING PLAN



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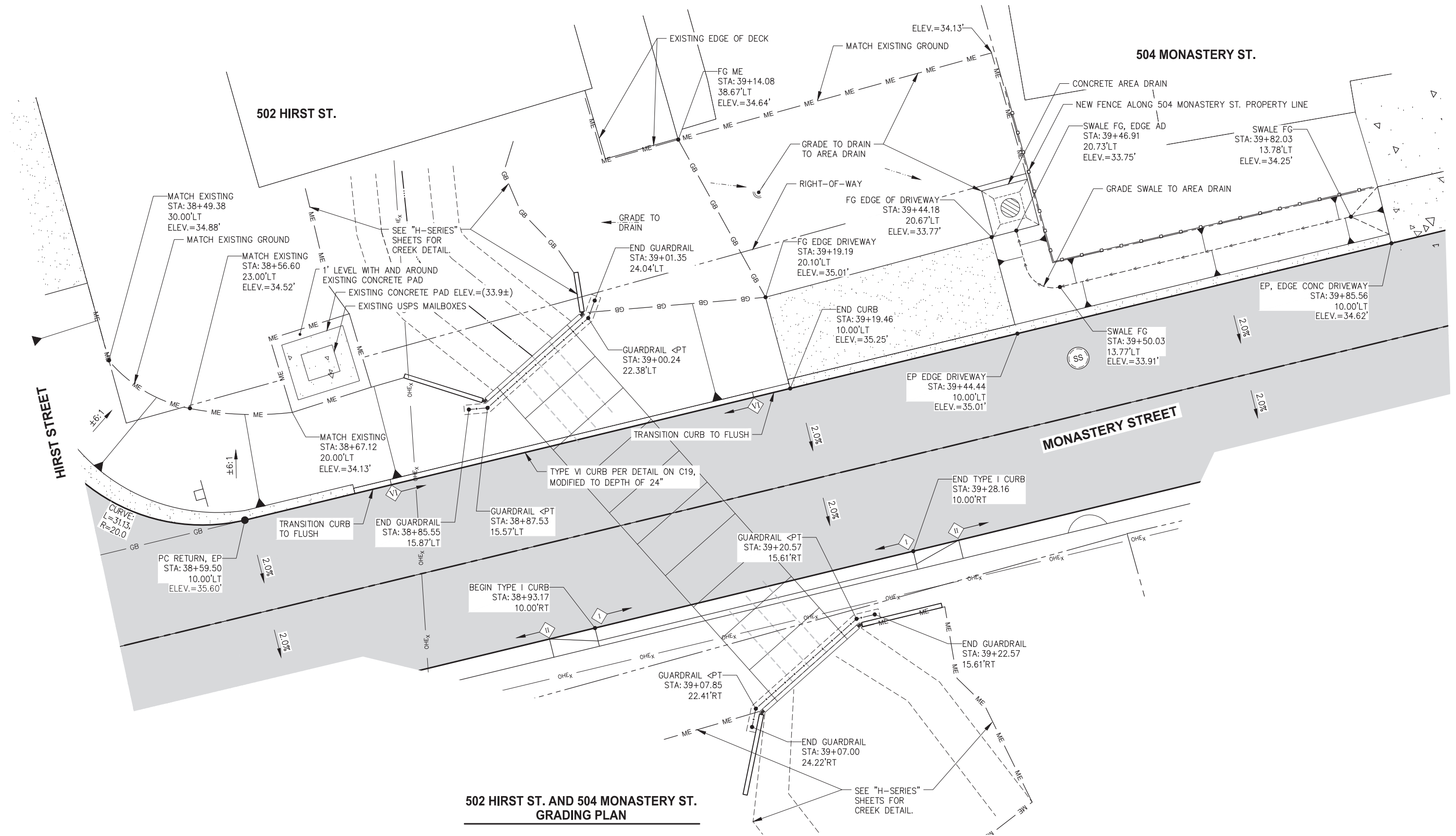
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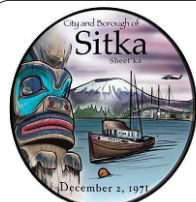
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C16

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502 HIRST ST. AND 504 MONASTERY ST. GRADING PLAN



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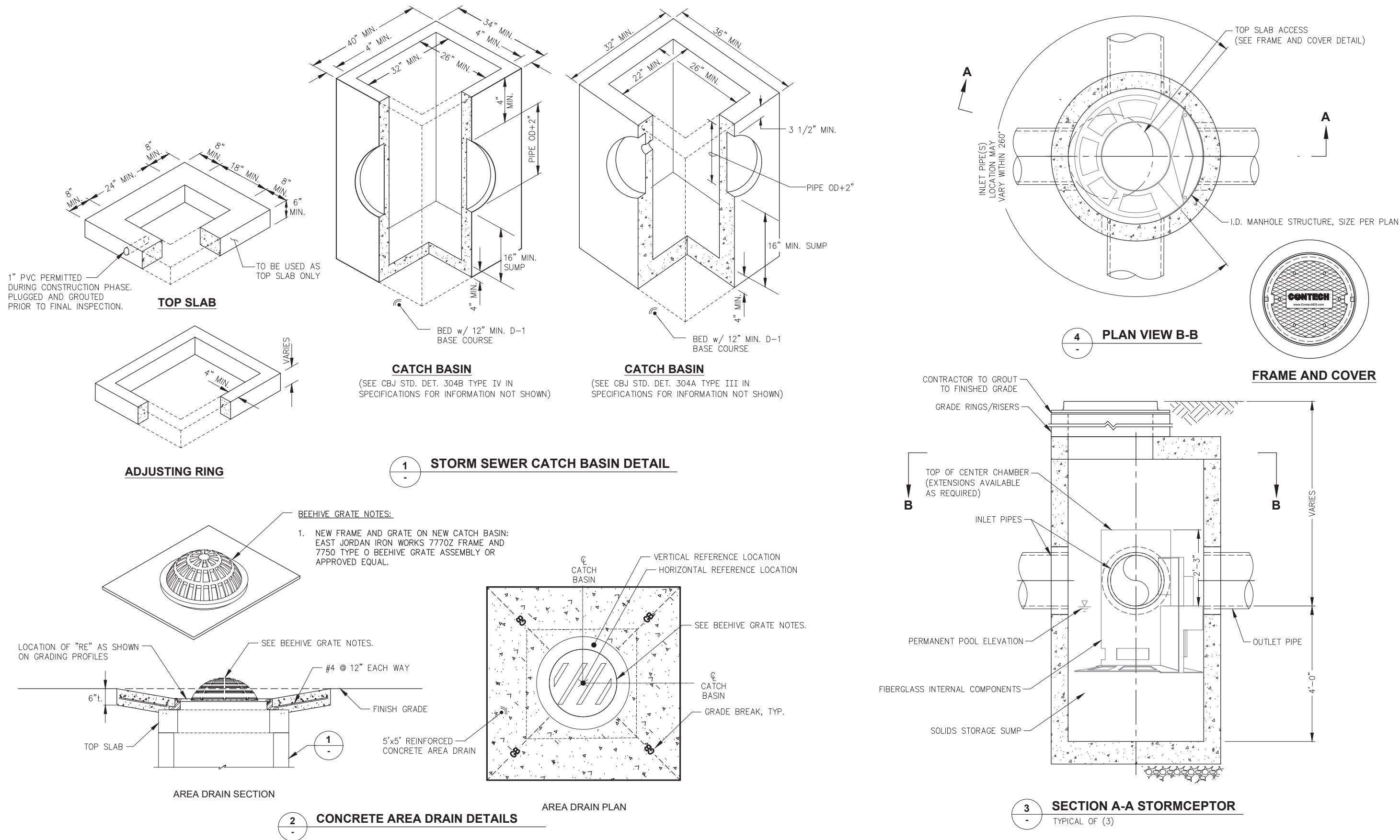
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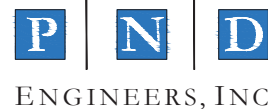
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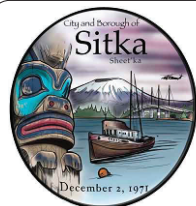
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 DATE: 04/12/2024

CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
STORM DRAIN DETAILS

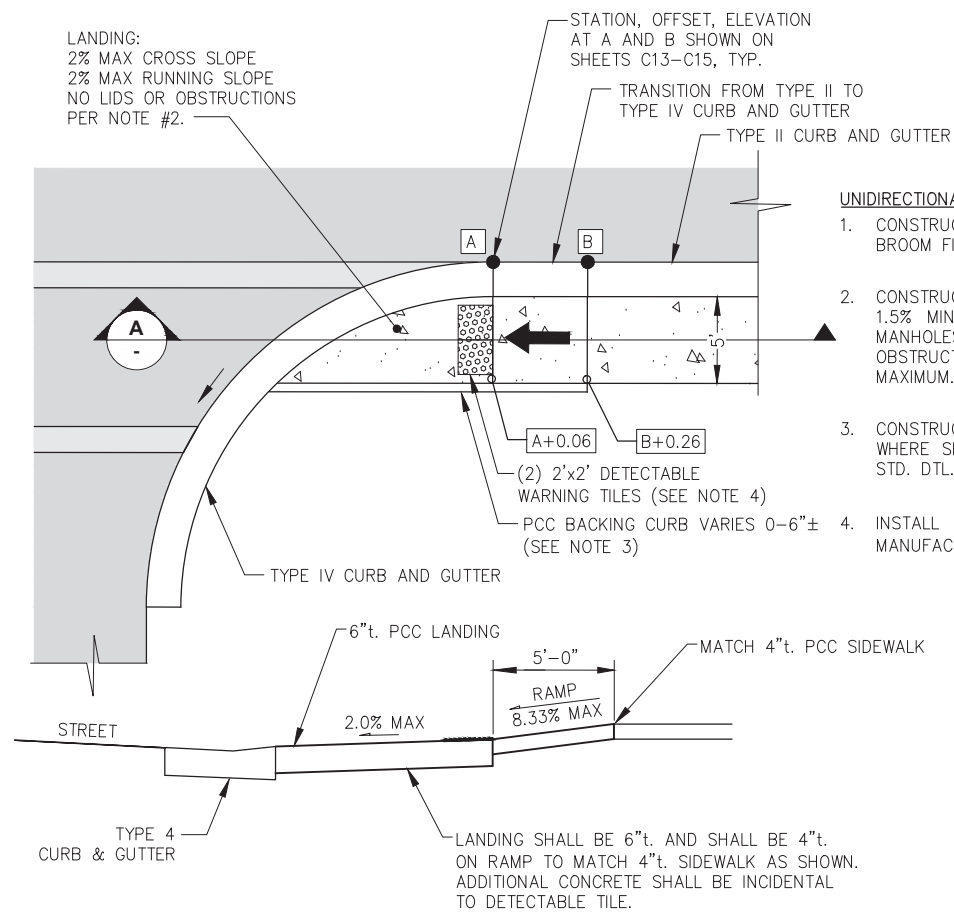
PND PROJECT #: 222100 C.A.N. NO.: AECC250



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C18

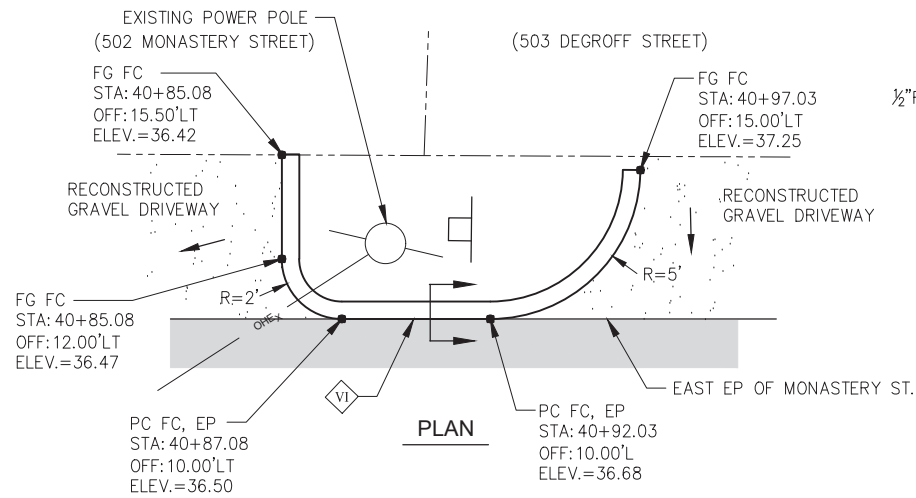
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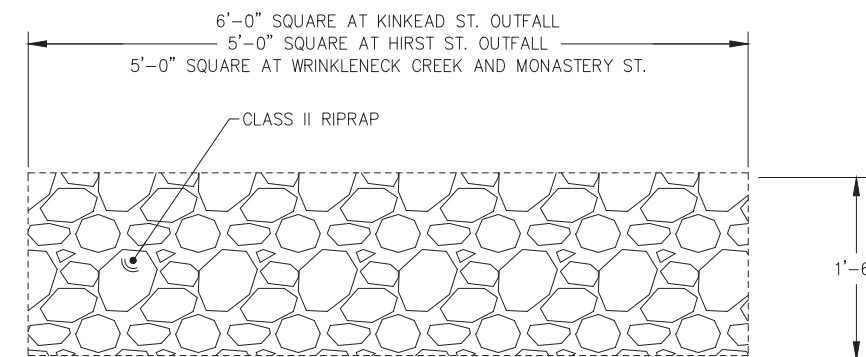
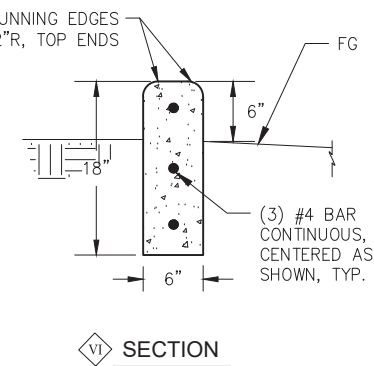
A UNIDIRECTIONAL CURB RAMP SECTION
TYPICAL OF (6)

UNIDIRECTIONAL NOTES:

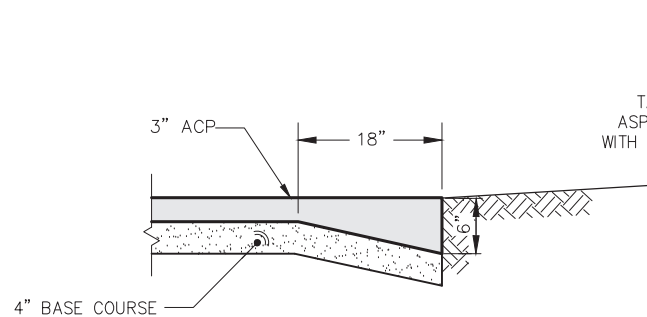
1. CONSTRUCT UNIDIRECTIONAL RAMPS AND LANDINGS WITH A BROOM FINISH PERPENDICULAR TO DIRECTION OF TRAVEL.
2. CONSTRUCT THE RAMP PORTION OF THE CURB RAMP WITH A 1.5% MINIMUM AND 2% MAXIMUM CROSS SLOPE WITH NO MANHOLES, UTILITY JUNCTION BOXES, OR OTHER OBSTRUCTIONS. THE RUNNING SLOPE SHALL BE 8.33% MAXIMUM.
3. CONSTRUCT BACKING CURB BEHIND LANDING AND RAMPS WHERE SHOWN OR AS DIRECTED BY THE ENGINEER IAW CBS STD. DTL. 30-2M, SEE SPECIAL PROVISIONS.
4. INSTALL (2) 2'x2' DETECTABLE WARNING TILES IAW MANUFACTURERS' RECOMMENDATIONS.



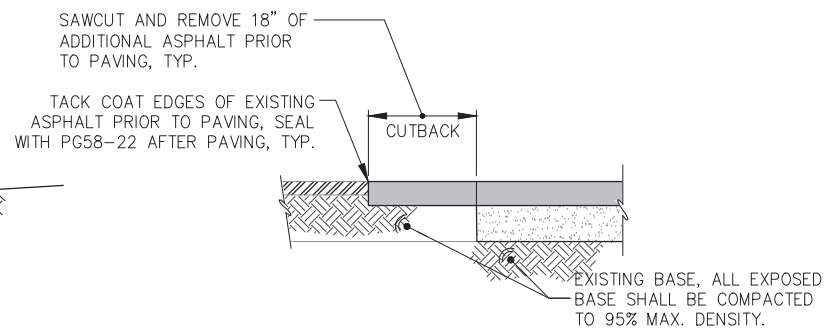
D CURB ISLAND DETAIL
(MONASTERY STREET STA. 40+90, LEFT)



E STORM DRAIN OUTFALL
TYPICAL OF (3)



B THICKENED ASPHALT PAVEMENT EDGE
CONSTRUCT ALONG EAST EDGE OF MONASTERY STREET, SOUTH EDGE OF HIRST AND AT DRIVEWAYS WHERE CURB IS NOT CONSTRUCTED.



C AC PAVEMENT CUTBACK DETAIL

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**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

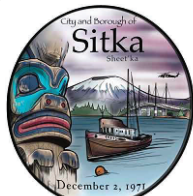
SHEET TITLE:

TYPICAL DETAILS

C19

PND PROJECT #: 222100

C.A.N. NO.: AECC250

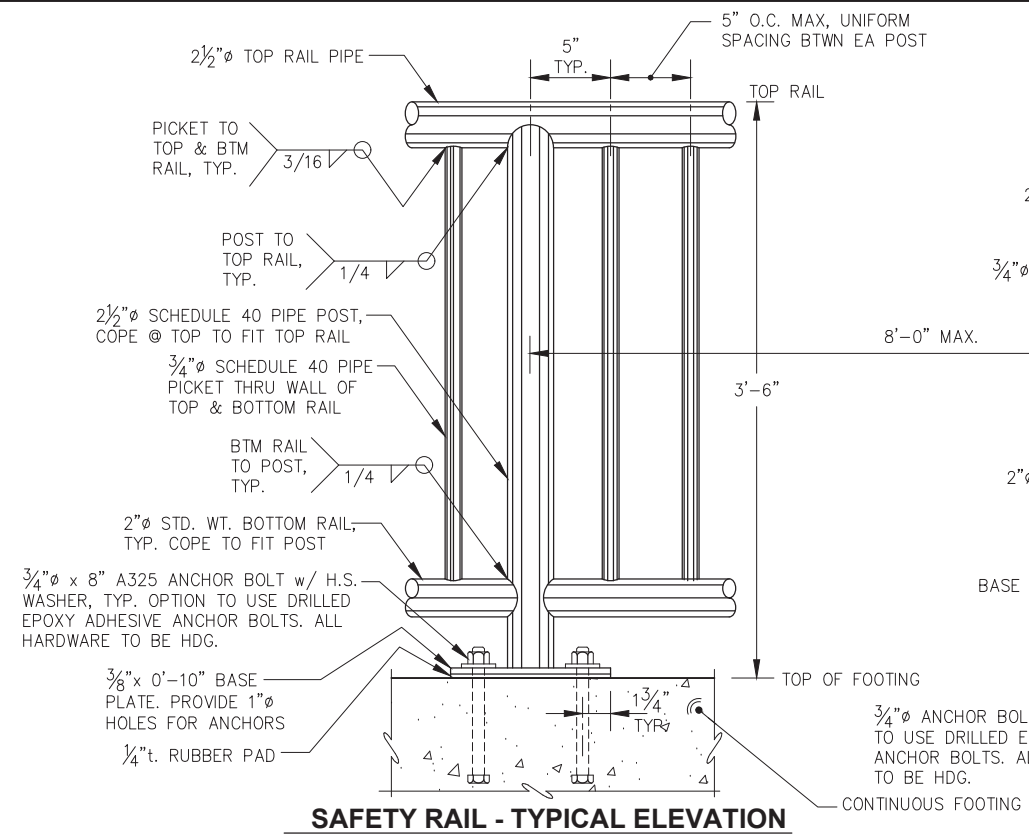


City and Borough of Sitka

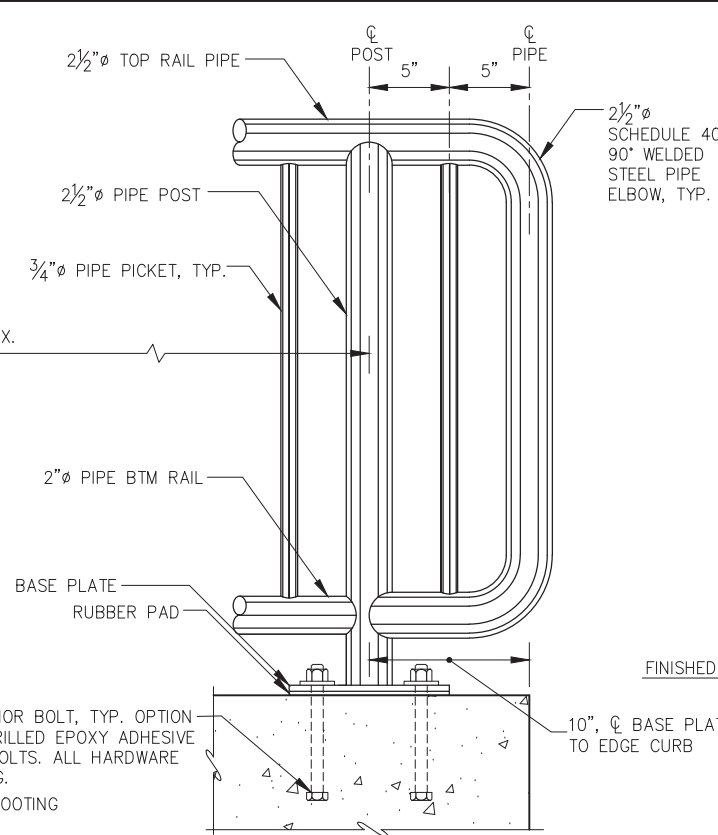
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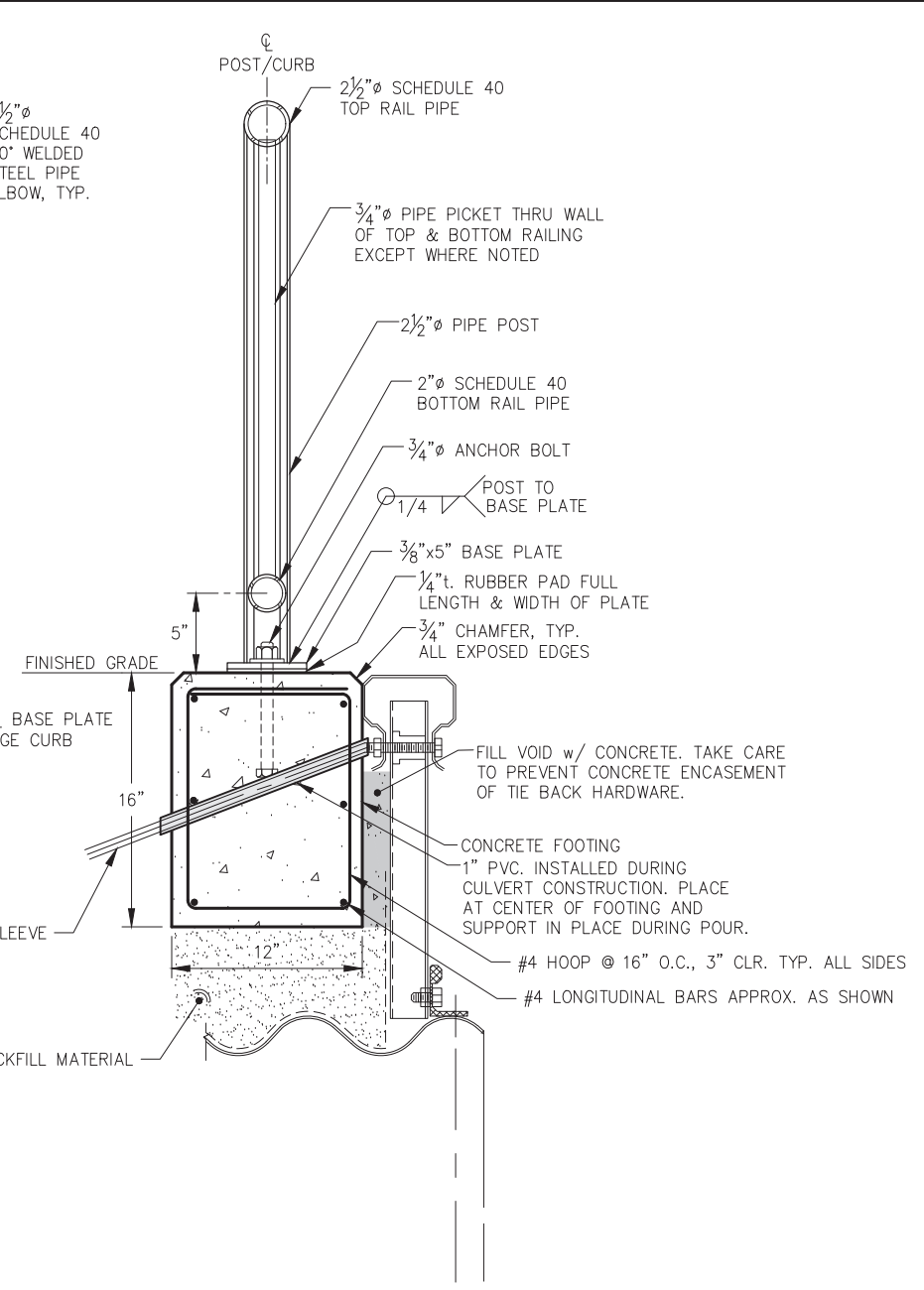
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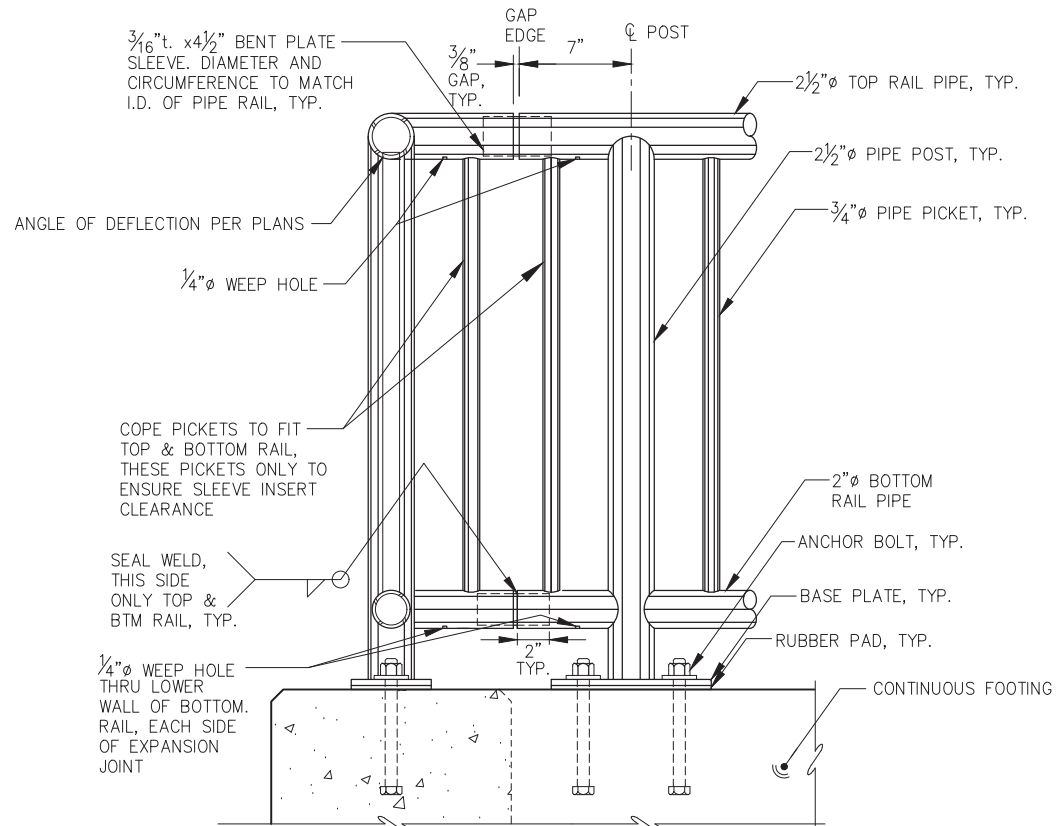
SAFETY RAIL - TYPICAL ELEVATION



END RETURN - ELEVATION



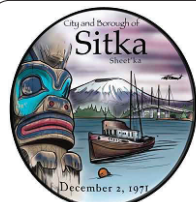
SAFETY RAIL - TYPICAL SECTION



SAFETY RAIL AT CORNER - ELEVATION

NOTE:
ALL RAIL AND HARDWARE
TO BE HOT DIP GALVANIZED.

SAFETY RAIL DETAILS
TYPICAL OF (2) LOCATIONS



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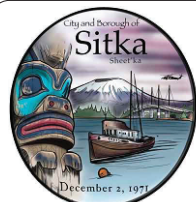
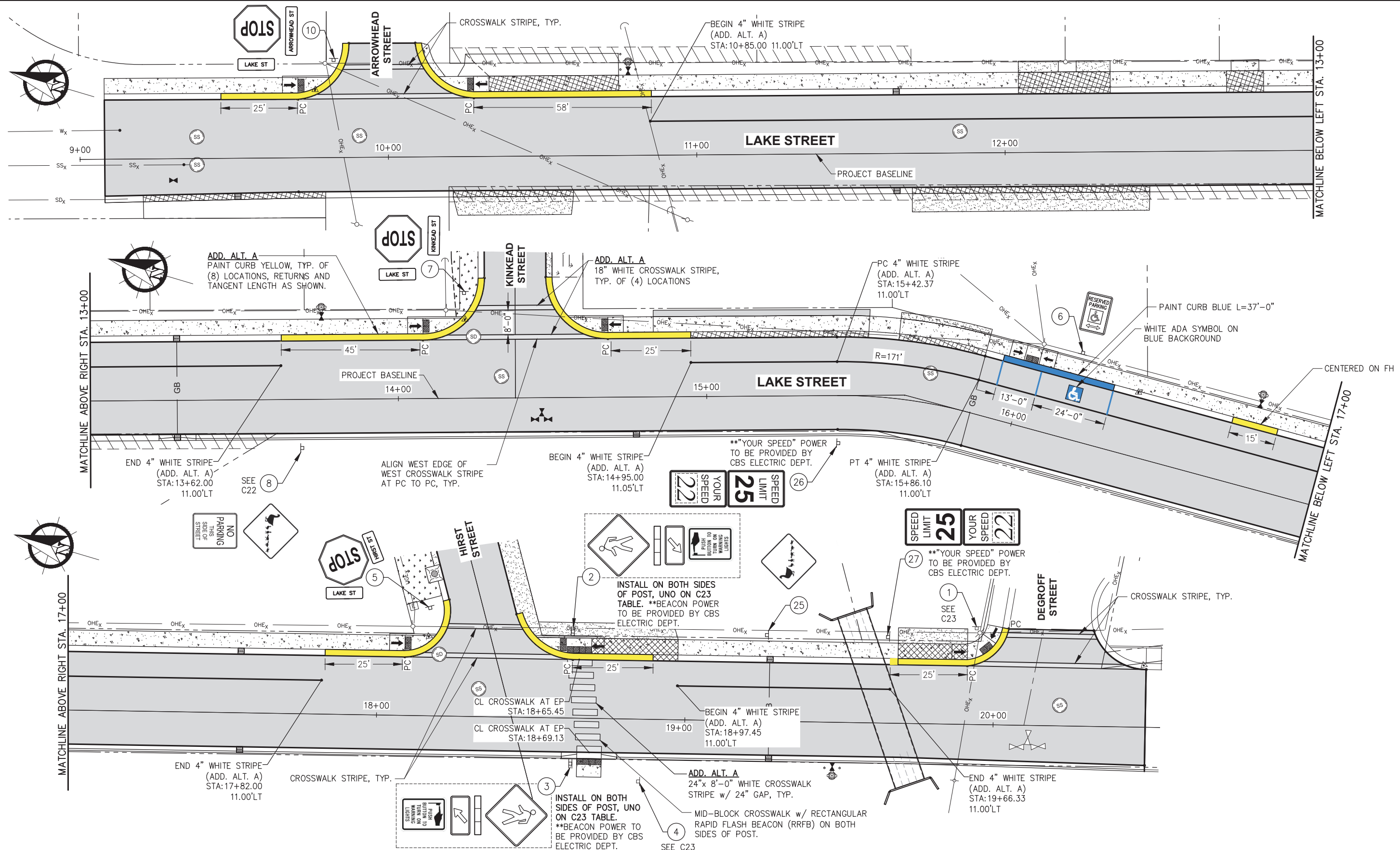
CITY AND BOROUGH OF SITKA, ALASKA
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UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
TYPICAL DETAILS

PND PROJECT #: 222100 C.A.N. NO.: AECC250

C20

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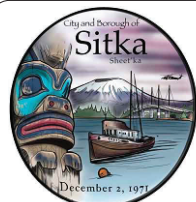
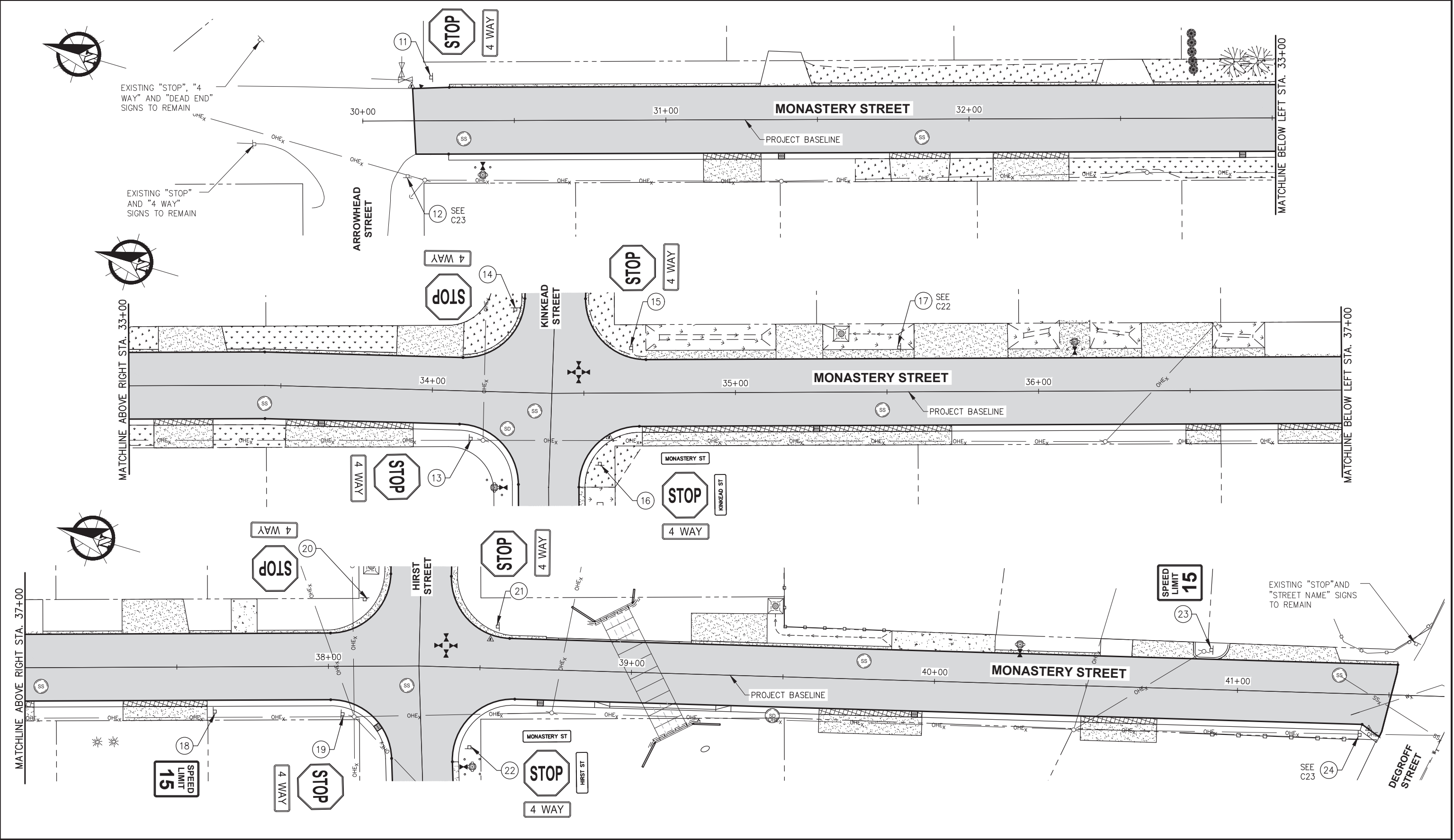
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
SIGNING AND PAVEMENT MARKING PLAN

PND PROJECT #: 222100 C.A.N. NO.: AECC250

C21

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CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
SIGNING AND PAVEMENT MARKING PLAN

PND PROJECT #: 222100 C.A.N. NO.: AECC250

C22

TRAFFIC SIGN SCHEDULE

SHEET	SIGN DESIGNATION NUMBER	STATION	OFFSET	CODE NO. ASDS	LEGEND	SIZE (INCHES)	SIGN FACE DIRECTION	REMARKS	
C20 (BTM)	1	19+95	LEFT	-	"DEGROFF ST"	-	-	EXISTING TO REMAIN, PROTECT IN PLACE	
				-	"LAKE ST"	-	-		
				-	"STOP"	-	-		
C20 (BTM)	2	18+63	LEFT	W11-2	"PEDESTRIAN"	30"W X 30"H	BOTH SIDES	INSTALL NEW SIGNS ON POST w/ RECTANGULAR RAPID FLASH BEACON ON BOTH SIDES OF POST. INSTALL W16-7P w/ PUSH BUTTON ACTIVATOR, FACING SOUTH ONLY. POWER TO BE SUPPLIED BY CBS ELECTRIC DEPT.	
				W16-7P	"DOWNWARD DIAGONAL ARROW"	24"W X 12"H	SOUTH		
				R10-25	"PUSH BUTTON"	9"W X 12"H	BOTH SIDES		
C20 (BTM)	3	18+63	RIGHT	W11-2	"PEDESTRIAN"	30"W X 30"H	BOTH SIDES	INSTALL NEW SIGNS ON POST w/ RECTANGULAR RAPID FLASH BEACON ON BOTH SIDES OF POST. INSTALL W16-7P w/ PUSH BUTTON ACTIVATOR, FACING NORTH ONLY. POWER TO BE SUPPLIED BY CBS ELECTRIC DEPT.	
				W16-7P	"DOWNWARD DIAGONAL ARROW"	24"W X 12"H	NORTH		
				R10-25	"PUSH BUTTON"	9"W X 12"H	BOTH SIDES		
C20 (BTM)	4	18+85	RIGHT	-	"SKATE AT YOUR OWN RISK"	-	N/S	EXISTING TO REMAIN, PROTECT IN PLACE	
C20 (BTM)	5	18+18	LEFT	D3-1D	"HIRST ST"	42"W X 8"H	E/W	EXISTING TO REMAIN, PROTECT IN PLACE	
				D3-1D	"LAKE ST"	42"W X 8"H	N/S		
				R1-1	"STOP"	30"W X 30"H	EAST		
C20 (MIDDLE)	6	16+16	LEFT	R7-8	"ACCESSIBLE PARKING"	12"W X 18"H	WEST	EXISTING TO REMAIN, PROTECT IN PLACE	
C20 (MIDDLE)	7	14+22	LEFT	D3-1D	"KINKEAD ST"	42"W X 8"H	E/W		
				D3-1D	"LAKE ST"	42"W X 8"H	N/S		
				R1-1	"STOP"	30"W X 30"H	EAST		
C20 (TOP)	8	13+68	RIGHT	-	"DUCK CROSSING"	30"W X 30"H	NORTH	EXISTING TO REMAIN, PROTECT IN PLACE	
				R7-13	"NO PARKING THIS SIDE OF STREET"	18"W X 24"H	NORTH		
	9	- INTENTIONALLY OMITTED							
C20 (TOP)	10	9+82	LEFT	D3-1D	"ARROWHEAD ST"	42"W X 8"H	E/W	EXISTING TO REMAIN, PROTECT IN PLACE	
				D3-1D	"LAKE ST"	42"W X 8"H	N/S		
				R1-1	"STOP"	30"W X 30"H	EAST		
C21 (TOP)	11	30+23	LEFT	R1-1	"STOP"	30"W X 30"H	SOUTH	EXISTING TO REMAIN, PROTECT IN PLACE	
				R1-3	"4 WAY"	12"W X 6"H	SOUTH		
C21 (TOP)	12	30+15	RIGHT	-	"ARROWHEAD ST"	-	-	EXISTING TO REMAIN, PROTECT IN PLACE	
				-	"STOP"	-	-		
				-	"4 WAY"	-	-		
C21 (MIDDLE)	13	34+13	RIGHT	R1-1	"STOP"	30"W X 30"H	NORTH	EXISTING TO REMAIN, PROTECT IN PLACE	
				R1-3	"4 WAY"	12"W X 6"H	NORTH		
C21 (MIDDLE)	14	34+25	LEFT	R1-1	"STOP"	30"W X 30"H	EAST	EXISTING TO REMAIN, PROTECT IN PLACE	
				R1-3	"4 WAY"	12"W X 6"H	EAST		
C21 (MIDDLE)	15	34+66	LEFT	R1-1	"STOP"	30"W X 30"H	SOUTH	EXISTING TO REMAIN, PROTECT IN PLACE	
				R1-3	"4 WAY"	12"W X 6"H	SOUTH		
C21 (MIDDLE)	16	34+56	RIGHT	R1-1	"STOP"	30"W X 30"H	WEST	EXISTING TO REMAIN, PROTECT IN PLACE	
				R1-3	"4 WAY"	12"W X 6"H	WEST		
				D3-1D	"KINKEAD ST"	42"W X 8"H	E/W		
				D3-1D	"MONASTERY ST"	42"W X 8"H	N/S		
C21 (MIDDLE)	17	35+54	LEFT	-	"NO PARKING"	-	SOUTH	SALVAGE EXISTING AND REPOST	
				-	"NEIGHBORHOOD WATCH"	-	SOUTH		
C21 (BTM)	18	37+62	RIGHT	R2-1	"SPEED LIMIT 15 MPH"	24"W X 30"H	NORTH	SALVAGE EXISTING AND REPOST	
				R8-3A	"NO PARKING"	18"W X 24"H	NORTH		
C21 (BTM)	19	38+04	RIGHT	R1-1	"STOP"	30"W X 30"H	NORTH	SALVAGE EXISTING AND REPOST	
				R1-3	"4 WAY"	12"W X 6"H	NORTH		
C21 (BTM)	20	38+13	LEFT	R1-1	"STOP"	30"W X 30"H	EAST	SALVAGE EXISTING AND REPOST	
				R1-3	"4 WAY"	12"W X 6"H	EAST		
C21 (BTM)	21	38+56	LEFT	R1-1	"STOP"	30"W X 30"H	SOUTH	SALVAGE EXISTING AND REPOST	
				R1-3	"4 WAY"	12"W X 6"H	SOUTH		
C21 (BTM)	22	38+48	RIGHT	R1-1	"STOP"	30"W X 30"H	WEST	SALVAGE EXISTING AND REPOST	
				R1-3	"4 WAY"	12"W X 6"H	WEST		
				D3-1D	"HIRST ST"	42"W X 8"H	E/W		
				D3-1D	"MONASTERY ST"	42"W X 8"H	N/S		

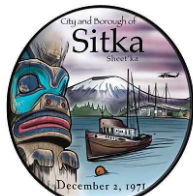
TRAFFIC SIGN SCHEDULE

SHEET	SIGN DESIGNATION NUMBER	STATION	OFFSET	CODE NO. ASDS	LEGEND	SIZE (INCHES)	SIGN FACE DIRECTION	REMARKS
C21 (BTM)	23	40+90	LEFT	R2-1	"SPEED LIMIT 15 MPH"	24"W X 30"H	SOUTH	SALVAGE EXISTING AND REPOST
C21 (BTM)	24	41+42	RIGHT	-	"DEGROFF ST"	(E)	E/W	
				-	"MONASTERY ST"	(E)	N/S	
				-	"STOP"	(E)	EAST	
C20 (BTM)	25	19+26	LEFT	-	"DUCK CROSSING"	30"W X 30"H	SOUTH	SALVAGE EXISTING AND REPOST
C20 (MIDDLE)	26	15+42	RIGHT	R2-1	"SPEED LIMIT 15 MPH"	24"W X 30"H	NORTH	
				NOTE #11	"YOUR SPEED ___ MPH"	24"W X 30"H	NORTH	INSTALL NEW SIGNS ON POST WITH "RADAR SPEED FEEDBACK" SIGN POWER TO BE SUPPLIED BY CBS ELECTRIC DEPT.
C20 (BTM)	27	19+66	LEFT	R2-1	"SPEED LIMIT 15 MPH"	24"W X 30"H	SOUTH	INSTALL NEW SIGNS ON POWER POLE WITH "RADAR SPEED FEEDBACK" SIGN POWER TO BE SUPPLIED BY CBS ELECTRIC DEPT.
				NOTE #11	"YOUR SPEED ___ MPH"	24"W X 30"H	SOUTH	

SIGN AND PAVEMENT MARKING GENERAL NOTES:

- LOCATE AND INSTALL SIGNS IAW CITY AND BOROUGH OF SITKA STANDARD DRAWINGS 70-14 THRU 70-17, SIGNS SHALL BE ATTACHED TO POSTS WITH RIVETS NOT BOLTS.
- CONSTRUCT SIGN PANELS IAW LATEST EDITION OF THE ALASKA TRAFFIC MANUAL, ALASKA SIGN DESIGN SPECIFICATIONS AND MUTCD.
- ANY SIGNS OR POSTS TO BE SALVAGED OR TO REMAIN IN PLACE, PUBLIC OR PRIVATE, DAMAGED BY THE CONTRACTOR DURING CONSTRUCTION SHALL BE REPLACED AT NO ADDITIONAL COST TO THE OWNER.
- INSTALL ALL SIGNS WITH NEW POSTS AND ASSEMBLY MATERIALS, INCLUDING SALVAGED SIGNS.
- STATION LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS SHALL BE AS DIRECTED BY THE ENGINEER.
- ERECT NEW SIGNS BEFORE REMOVAL OF EXISTING SIGNS WITH SIMILAR MESSAGE. MAINTAIN EXISTING SIGNS UNTIL NEW SIGNS ARE INSTALLED. WHERE SIGNAGE MUST BE MOVED TO FACILITATE NEW CONSTRUCTION, TEMPORARILY RELOCATE IN ACCORDANCE WITH CONTRACTOR'S APPROVED TEMPORARY TRAFFIC CONTROL PLAN AND/OR AS APPROVED BY THE ENGINEER. COORDINATE ALL SIGN RELOCATIONS WITH ENGINEER PRIOR TO PROCEEDING. DO NOT LEAVE DUPLICATE OR CONFLICTING SIGNAGE UP AT ANY TIME. NOTIFY ENGINEER A MINIMUM OF 14 DAYS PRIOR TO BEGINNING SIGN REMOVAL AND SALVAGE OR DISPOSAL ACTIVITIES.
- ALL PAINTED TRAFFIC MARKINGS BEYOND PROJECT LIMITS THAT ARE REMOVED OR OTHERWISE DAMAGED AS A RESULT OF THE CONTRACTOR'S ACTIVITIES SHALL BE REPAINTED IN KIND AT NO ADDITIONAL COST TO THE OWNER.
- PAINTED TRAFFIC MARKINGS ARE SHOWN APPROXIMATE AND MAY BE MODIFIED BY THE ENGINEER. CONFIRM MARKING LOCATIONS WITH ENGINEER PRIOR TO PAINTING, AFTER CURB, SIDEWALK AND ACP CONSTRUCTION IS COMPLETE.
- ALL PAINTED MARKINGS SHALL BE METHYL METHACRYLATE IAW CBSSS 70.17 AND SPECIAL PROVISIONS. CONTRACTOR SHALL WAIT A MINIMUM OF 2 WEEKS AFTER PAVING IS COMPLETED BEFORE MARKING TO ALLOW AC PAVEMENT SURFACE TO SEAL/WEAR/CURE UNDER TRAFFIC AND WEATHER.
- CONTRACTOR SHALL LOCATE AND PROTECT ALL NEW AND EXISTING UNDERGROUND UTILITIES AND PIPELINES PRIOR TO INSTALLING SIGN POST. NOT ALL EXISTING UTILITIES MAY BE SHOWN ON PLANS. CONTRACTOR IS RESPONSIBLE FOR CONFIRMATION OF ALL UTILITY LOCATIONS.
- THE 2009 EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD), ALLOWS THE USE OF A "CHANGEABLE MESSAGE SIGN THAT DISPLAYS TO APPROACHING DRIVERS THE SPEED AT WHICH THEY ARE TRAVELING TO BE USED IN CONJUNCTION WITH A SPEED LIMIT SIGN." THESE SIGNS INCLUDE THE COMMONLY REFERRED TO "RADAR SPEED FEEDBACK" SIGNS. SINCE RADAR SPEED FEEDBACK SIGNS ARE CHANGEABLE MESSAGE SIGNS, PROVISIONS FOR THEIR USE AND APPLICATION ARE CONTAINED IN CHAPTER 2L OF THE MUTCD. SPECIFICALLY, PARAGRAPH 1 IN SECTION 2L.04 PROVIDES THAT CHANGEABLE MESSAGE SIGNS SHALL NOT INCLUDE ADVERTISING, ANIMATION, RAPID FLASHING, DISSOLVING, EXPLODING, SCROLLING, OR OTHER DYNAMIC ELEMENTS. SEE MUTCD OFFICIAL INTERPRETATION UNDER THE FOLLOWING NUMBER AND TITLE, "2(09)-79 (I) - RADAR SPEED FEEDBACK SIGNS."

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City and Borough of Sitka

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CITY AND BOROUGH OF SITKA, ALASKA
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UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:

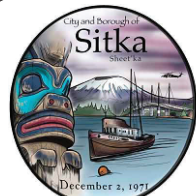
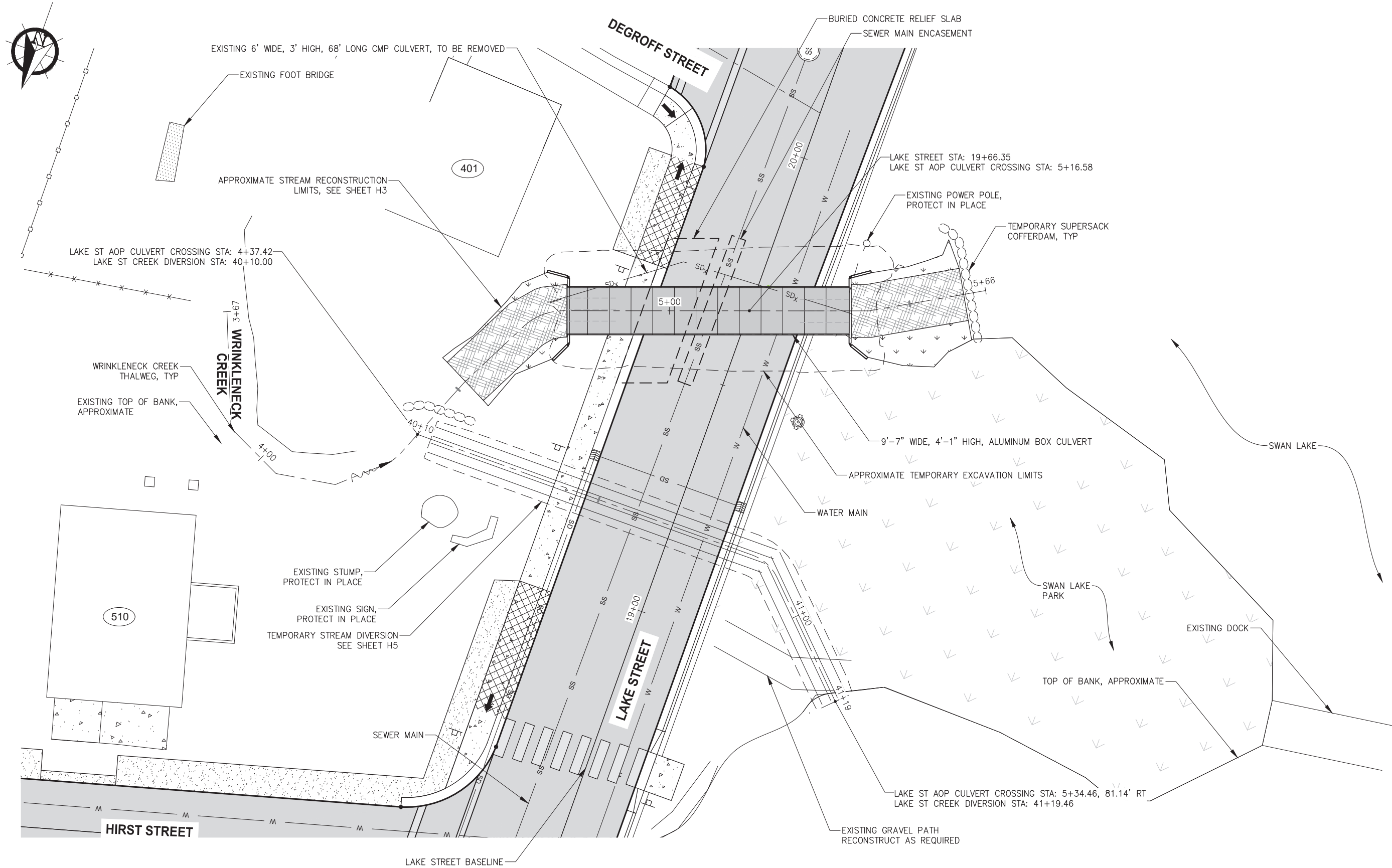
SIGN ASSEMBLY SUMMARY

C23

PND PROJECT #: 222100

C.A.N. NO.: AECC250

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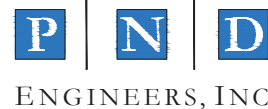
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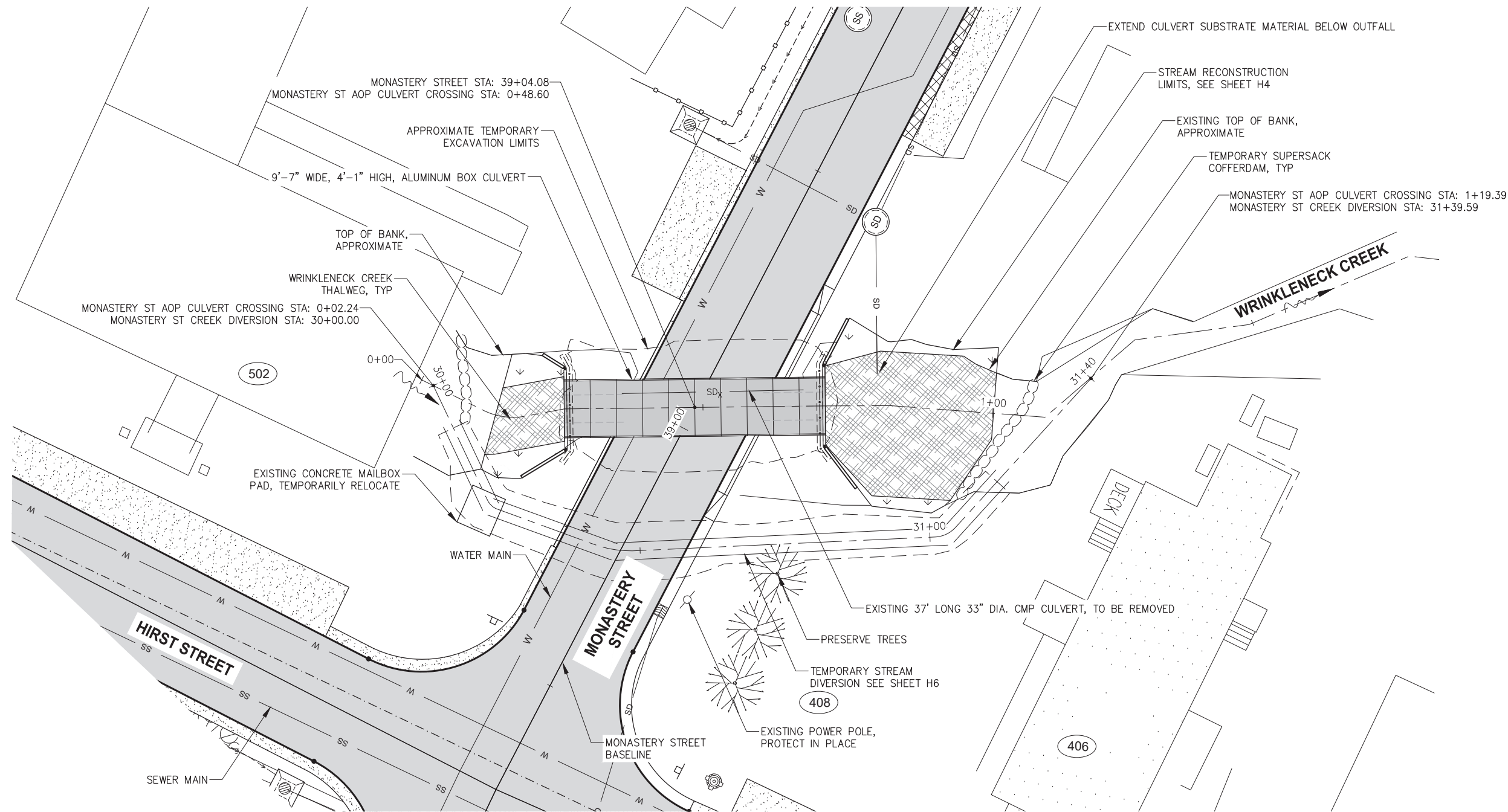
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CITY AND BOROUGH OF SITKA, ALASKA
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CBS PROJECT #2023-149

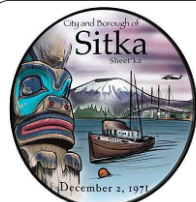
SHEET TITLE: **WRINKLENECK CREEK
SITE OVERVIEW AT
LAKE STREET**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

H1



n:\22xxx\222100_cbs_lhmk_utility_and_street_improvements\g_drawings\1_design\6_H&H\H1-H2_WRINKLENECK_SITE_OVERVIEWS.dwg - Plane - 4/12/2024



City and Borough of Sitka
 DEPARTMENT OF PUBLIC WORKS
 100 LINCOLN STREET SITKA, ALASKA 99835
 TEL (907) 747-1804 FAX (907) 747-3158

REVISIONS					
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.

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ENGINEERS, INC.

9360 Glacier Highway Suite 100
 Juneau, Alaska 99801
 Phone: 907-586-2093
 Fax: 907-586-2099
 www.pndengineers.com

DESIGN: P.J.L. CHECKED: T.C.B. SCALE: SCALE IN FEET
 DRAWN: P.J.L. APPROVED: _____ 0 10 20 FT.

DRAFT
 DATE: 04/12/2024

**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **WRINKLENECK CREEK
 SITE OVERVIEW AT
 MONASTERY STREET**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

H2

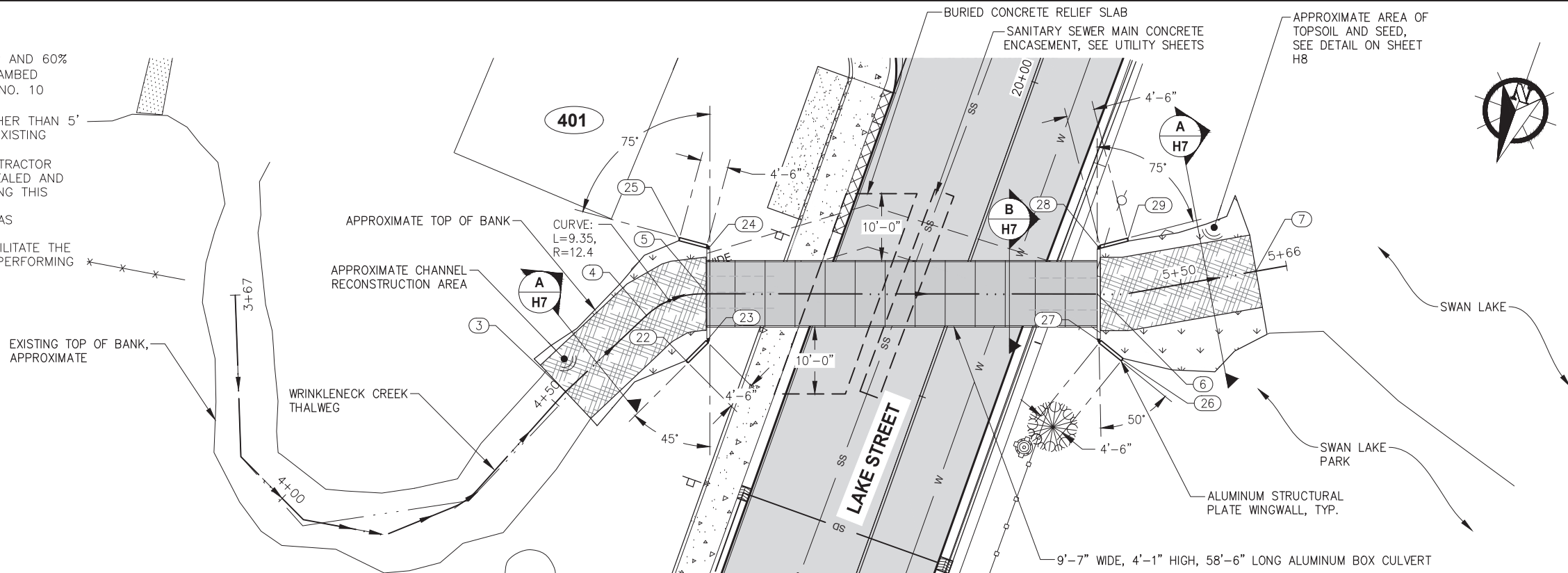
NOTES:

- CULVERT SUBSTRATE MATERIAL SHALL CONSIST OF 40% CLASS I RIPRAP AND 60% CLASS A SHOT ROCK BORROW, WITH ADDED #10 FINES. CULVERT STREAMBED MATERIALS SHALL BE MIXED ON SITE BEFORE PLACEMENT. ADD FINES (NO. 10 SIEVE AND SMALLER) IF NEEDED TO SEAL BED.
- UNLESS OTHERWISE NOTED, IN CHANNEL RECONSTRUCTION AREAS FURTHER THAN 5' UPSTREAM AND DOWNSTREAM FROM THE CULVERT INLET AND OUTLET, EXISTING STREAMBED SUBSTRATE MAY BE USED WITH ENGINEER'S APPROVAL.
- CONSTRUCT CHANNEL LEAVING A NON-UNIFORM, ROUGH SURFACE. CONTRACTOR SHALL WASH FINE MATERIALS INTO COARSE MATERIALS UNTIL BED IS SEALED AND WATER POOLS ON SURFACE. ADDITIONAL FINES MAY BE REQUIRED DURING THIS PROCESS.
- STREAM SHALL NOT BE RE-DIVERTED INTO CULVERT UNTIL ENGINEER HAS APPROVED BED MATERIALS ARE SUFFICIENTLY SEALED.
- MINIMIZE CLEARING OF TREES & SHRUBS TO EXTENT REQUIRED TO FACILITATE THE WORK. CLEARING LIMITS SHALL BE APPROVED BY ENGINEER PRIOR TO PERFORMING THE WORK.

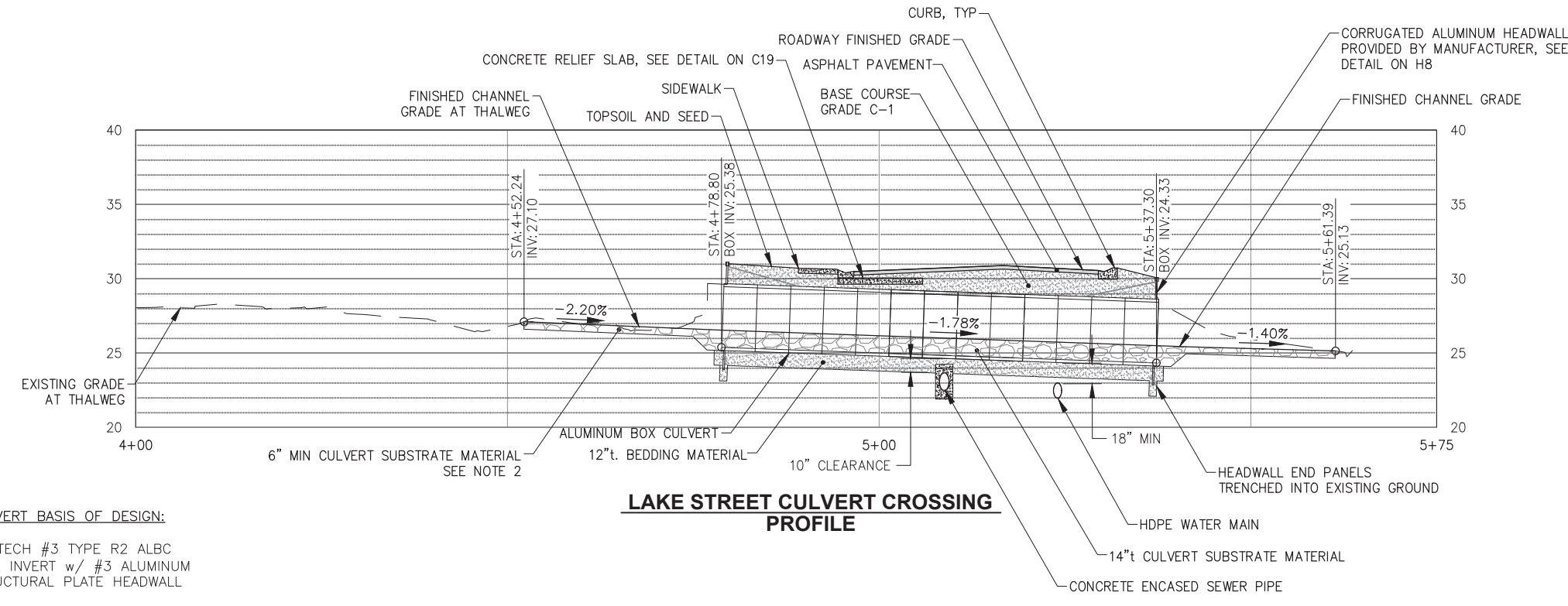
CLASS A SHOT ROCK WITH ADDED #10 FINES	
SIEVE	% PASSING
4"	100
2"	40-80
#4	12-40
#10	10-30
#200	0-5

HYDROLOGIC & HYDRAULIC SUMMARY		
DRAINAGE AREA:	0.3 SQ MI	
EXCEEDANCE PROBABILITY:	2%	1%
RETURN PERIOD:	50 YEAR (Q50)	100 YEAR (Q100)
DESIGN DISCHARGE:	120 CFS	140 CFS
DESIGN WATER ELEVATION:	29.8	30.2
HEADWATER/DIAMETER RATIO:	1.11	1.25

WRINKLENECK CREEK CROSSING LAYOUT					
POINT	WRINKLENECK STA.	LAKE ST. STA.	LAKE ST. OFFSET	APPROXIMATE ELEVATION	DESCRIPTION
3	4+52.24	19+32.68	-50.59'L	27.10'	BEGIN CHANNEL GRADING, @ THALWEG
4	4+68.92	19+47.54	-43.03'L	26.73'	PC @THALWEG
5	4+78.80	19+53.64	-35.58'L	26.55'	BEGIN CULVERT, PT @ THALWEG
6	5+37.30	19+73.33	19.51'R	25.50'	END OF CULVERT, PI @ THALWEG
7	5+61.39	19+84.56	40.76'R	25.13'	END CHANNEL GRADING, @ THALWEG
22	4+68.58	19+43.06	-34.96'L	29.80'	TOP OF WINGWALL, CL
23	4+79.00	19+47.37	-33.12'L	31.00'	TOP OF HEADWALL, CL
24	4+79.00	19+60.08	-37.67'L	31.00'	TOP OF HEADWALL, CL
25	4+76.03	19+59.95	-42.24'L	30.15'	TOP OF WINGWALL, CL
26	5+41.02	19+65.32	26.33'R	29.00'	TOP OF WINGWALL, CL
27	5+37.52	19+66.81	22.08'R	30.00'	TOP OF HEADWALL, CL
28	5+37.50	19+79.99	17.35'R	30.00'	TOP OF HEADWALL, CL
29	5+43.26	19+82.52	21.06'R	29.30'	TOP OF WINGWALL, CL



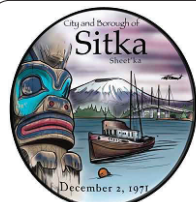
LAKE STREET CULVERT CROSSING PLAN



LAKE STREET CULVERT CROSSING PROFILE

CULVERT BASIS OF DESIGN:
 CONTECH #3 TYPE R2 ALBC
 FULL INVERT w/ #3 ALUMINUM
 STRUCTURAL PLATE HEADWALL

n:\22xxx\222100 cbs lhmk utility and street improvements.g. drawings\1. design\6. H&H\H3-H4 WrinkleneckHeadwalls.dwg - Plane - 4/12/2024



City and Borough of Sitka
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 www.pndengineers.com

DESIGN: P.JL CHECKED: TCB
 DRAWN: P.JL APPROVED: _____

SCALE: SCALE IN FEET
 0 10 20 FT.

DRAFT
 DATE: 04/12/2024

**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **LAKE STREET CULVERT CROSSING PLAN AND PROFILE**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

H3

NOTES:

- CULVERT SUBSTRATE MATERIAL SHALL CONSIST OF 40% CLASS I RIPRAP AND 60% CLASS A SHOT ROCK BORROW, WITH ADDED #10 FINES. CULVERT STREAMBED MATERIALS SHALL BE MIXED ON SITE BEFORE PLACEMENT. ADD FINES (NO. 10 SIEVE AND SMALLER) IF NEEDED TO SEAL BED.
- UNLESS OTHERWISE NOTED, IN CHANNEL RECONSTRUCTION AREAS FURTHER THAN 5' UPSTREAM AND DOWNSTREAM FROM THE CULVERT INLET AND OUTLET, EXISTING STREAMBED SUBSTRATE MAY BE USED WITH ENGINEER'S APPROVAL.
- CONSTRUCT CHANNEL LEAVING A NON-UNIFORM, ROUGH SURFACE. CONTRACTOR SHALL WASH FINE MATERIALS INTO COARSE MATERIALS UNTIL BED IS SEALED AND WATER POOLS ON SURFACE. ADDITIONAL FINES MAY BE REQUIRED DURING THIS PROCESS.
- STREAM SHALL NOT BE RE-DIVERTED INTO CULVERT UNTIL ENGINEER HAS APPROVED BED MATERIALS ARE SUFFICIENTLY SEALED.
- MINIMIZE CLEARING OF TREES & SHRUBS TO EXTENT REQUIRED TO FACILITATE THE WORK. CLEARING LIMITS SHALL BE APPROVED BY ENGINEER PRIOR TO PERFORMING THE WORK.

CLASS A SHOT ROCK WITH ADDED #10 FINES

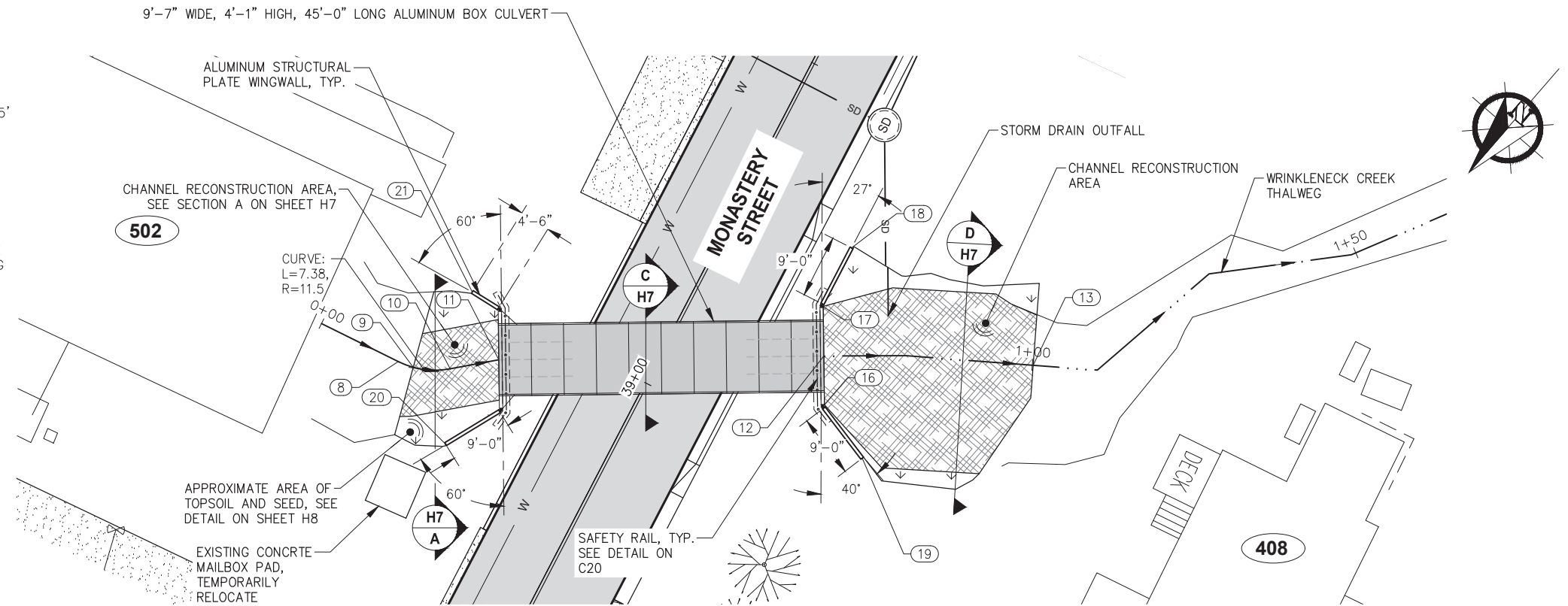
SIEVE	% PASSING
4"	100
2"	40-80
#4	12-40
#10	10-30
#200	0-5

HYDROLOGIC & HYDRAULIC SUMMARY

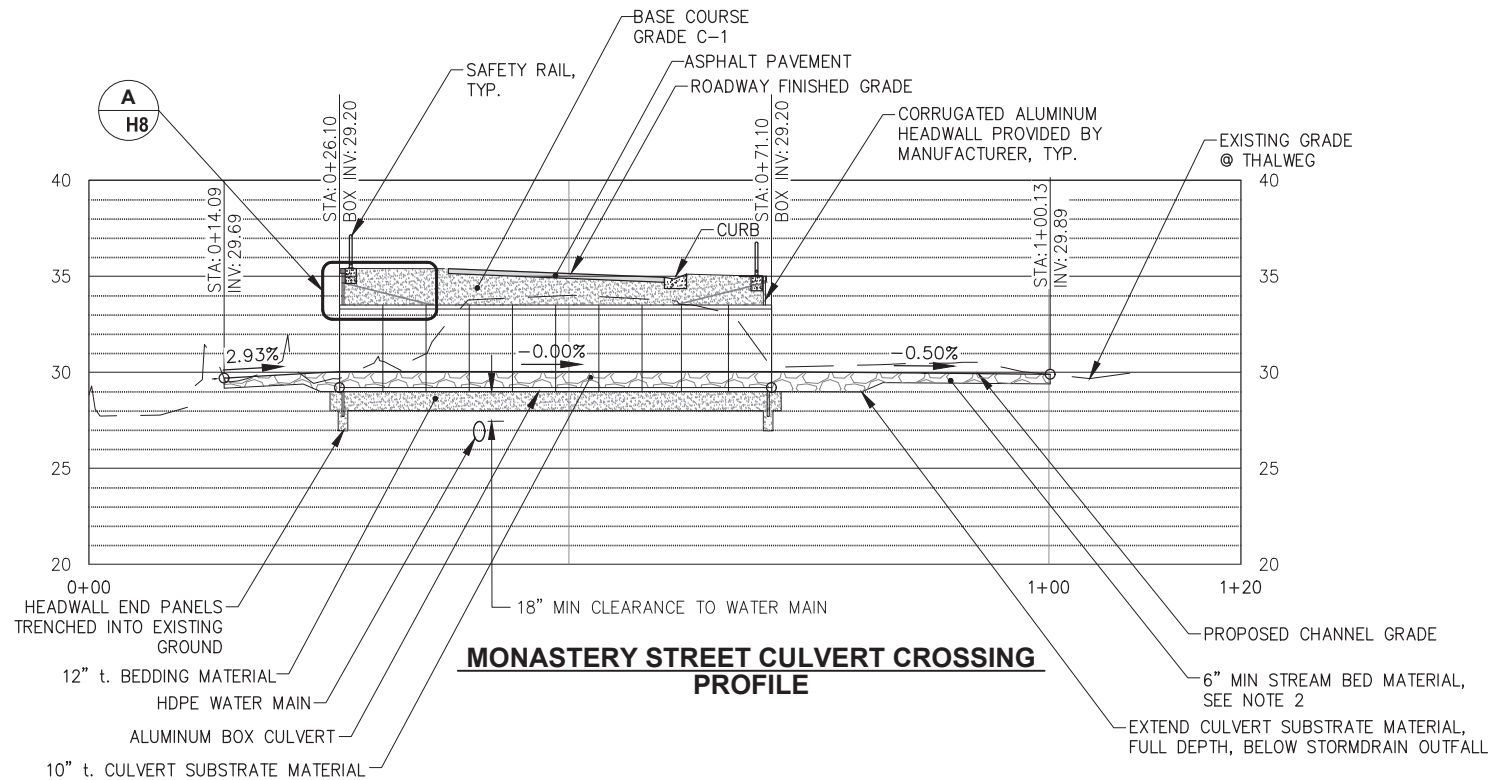
DRAINAGE AREA:	0.3 SQ MI	
EXCEEDANCE PROBABILITY:	2%	1%
RETURN PERIOD:	50 YEAR (Q50)	100 YEAR (Q100)
DESIGN DISCHARGE:	120 CFS	140 CFS
DESIGN WATER ELEVATION:	33.5	33.9
HEADWATER/DIAMETER RATIO:	1.05	1.17

WRINKLENECK CREEK CROSSING LAYOUT

POINT	WRINKLENECK STA.	MONASTERY ST. STA.	MONASTERY ST. OFFSET	APPROXIMATE ELEVATION	DESCRIPTION
8	0+11.87	38+86.82	-32.07'L	30.10'	PC @ THALWEG
9	0+14.09	38+87.08	-29.87'L	29.69'	BEGIN CHANNEL GRADING @ THALWEG
10	0+19.26	38+89.25	-25.23'L	29.84'	PT @ THALWEG
11	0+26.10	38+93.47	-19.84'L	30.03'	BEGIN CULVERT, PI @ THALWEG
12	0+71.10	39+14.69	19.84'R	30.03'	END OF CULVERT, PI @ THALWEG
13	1+00.13	39+26.92	46.15'R	29.89'	END OF CHANNEL GRADING, @ THALWEG
14	0+26.33	38+99.75	-22.94'L	35.30'	TOP OF HEADWALL, CL
15	0+25.13	38+87.40	-16.33'L	35.30'	TOP OF HEADWALL, CL
16	0+70.87	39+08.41	22.94'R	34.71'	TOP OF HEADWALL, CL
17	0+70.87	39+20.75	16.34'R	34.71'	TOP OF HEADWALL, CL
18	0+74.99	39+29.75	16.34'R	34.71'	TOP OF WINGWALL, CL
19	0+76.36	39+04.58	31.09'R	33.50'	TOP OF WINGWALL, CL
20	0+17.91	38+79.70	-20.99'L	33.97'	TOP OF WINGWALL, CL
21	0+24.21	39+00.11	-27.42'L	34.13'	TOP OF WINGWALL, CL



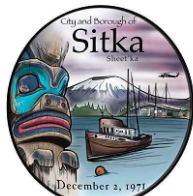
MONASTERY STREET CULVERT CROSSING PLAN



MONASTERY STREET CULVERT CROSSING PROFILE

CULVERT BASIS OF DESIGN:
 CONTECH #3 TYPE R2 ALBC
 FULL INVERT w/ #3 ALUMINUM
 STRUCTURAL PLATE HEADWALL

n:\22xxx\222100 cbs lhmk utility and street improvements\g. drawings\1. design\6. H&H\H3-H4 WrinkleneckHeadwalls.dwg - Plane - 4/12/2024



City and Borough of Sitka

DEPARTMENT OF
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REVISIONS

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DESIGN: PUL CHECKED: TCB
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SCALE:
 SCALE IN FEET
 0 10 20 FT.

DRAFT

DATE: 04/12/2024

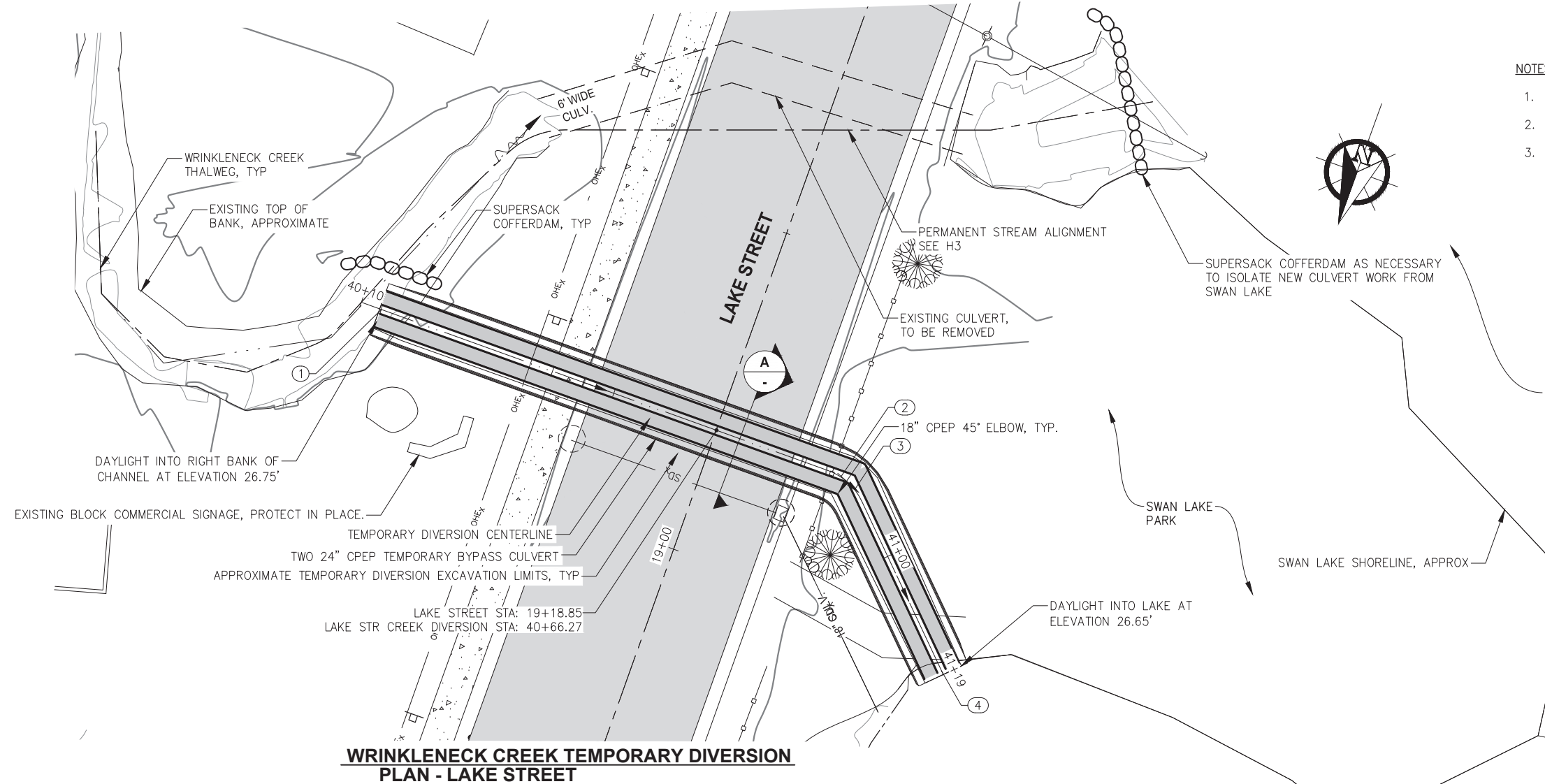
CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149

SHEET TITLE: **MONASTERY STREET
 CULVERT CROSSING
 PLAN AND PROFILE**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

H4

n:\22xxx\222100 cbs lhmk utility and street improvements\1. design\6. H&H\H5-H6 Wrinkleneck_TempDivisions_Culvert.dwg - Plane - 3/6/2024

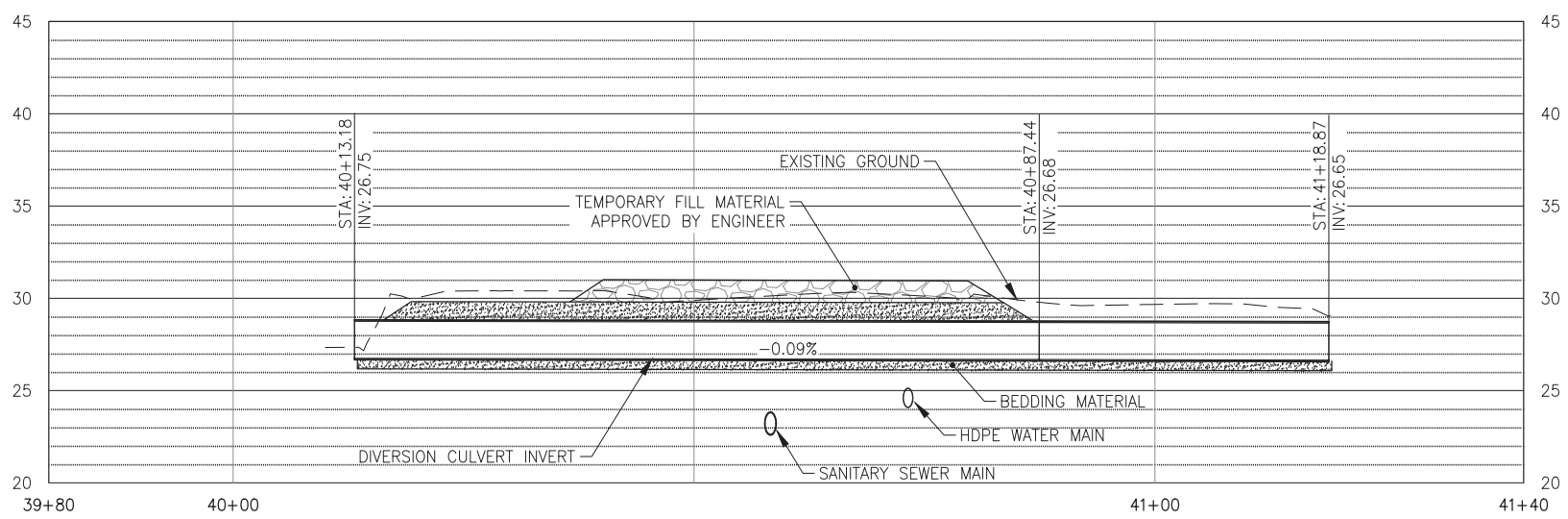


- NOTES:**
- EXISTING ROADWAY CONDITIONS SHOWN.
 - CONSTRUCT DIVERSION BEFORE REMOVING EXISTING CULVERTS.
 - DIVERSION DETAILS PROVIDED FOR INFORMATION ONLY. SUBMIT DIVERSION DESIGN PRIOR TO CONSTRUCTION.

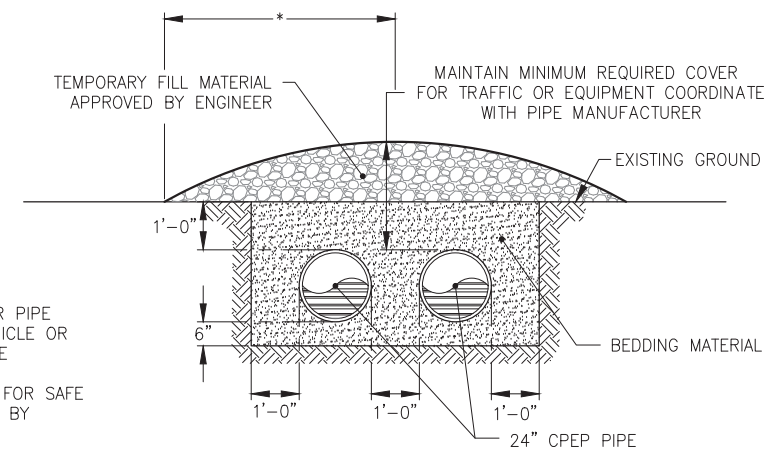
TEMPORARY DIVERSION HYDROLOGIC & HYDRAULIC SUMMARY	
DRAINAGE AREA:	0.3 SQUARE MILES
EXCEEDANCE PROBABILITY:	50%
RETURN PERIOD:	2 YEARS (Q2)
DESIGN DISCHARGE:	40 CFS
DESIGN WATER ELEVATION:	30.2
HEADWATER/DIAMETER RATIO:	1.72

CREEK DIVERSION LAYOUT					
POINT	DIVERSION STATION	LAKE ST. STATION	LAKE ST. OFFSET	APPROXIMATE ELEVATION	DESCRIPTION
1	40+13.18	19+18.96	-53.04'LT	26.75'	BEGIN CREEK DIVERSION
2	40+86.08	19+18.79	19.90'RT	26.68'	PC
3	40+88.81	19+17.71	22.49'RT	26.68'	PT
4	41+18.87	18+96.38	43.72'RT	26.65'	END CREEK DIVERSION

WRINKLENECK CREEK TEMPORARY DIVERSION PLAN - LAKE STREET

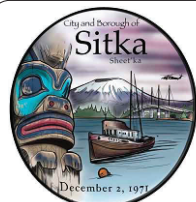


WRINKLENECK CREEK TEMPORARY DIVERSION PROFILE - LAKE STREET



NOTE:
 TEMPORARY FILL OVER PIPE REQUIRED WHERE VEHICLE OR EQUIPMENT LOADS ARE ANTICIPATED.
 *WIDTH AS REQUIRED FOR SAFE TRAVEL AS APPROVED BY ENGINEER

A CREEK DIVERSION TYPICAL SECTION



City and Borough of Sitka
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DESIGN: EPP CHECKED: TCB
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SCALE: SCALE IN FEET
 0 10 20 FT.

DRAFT
 DATE: 04/12/2024

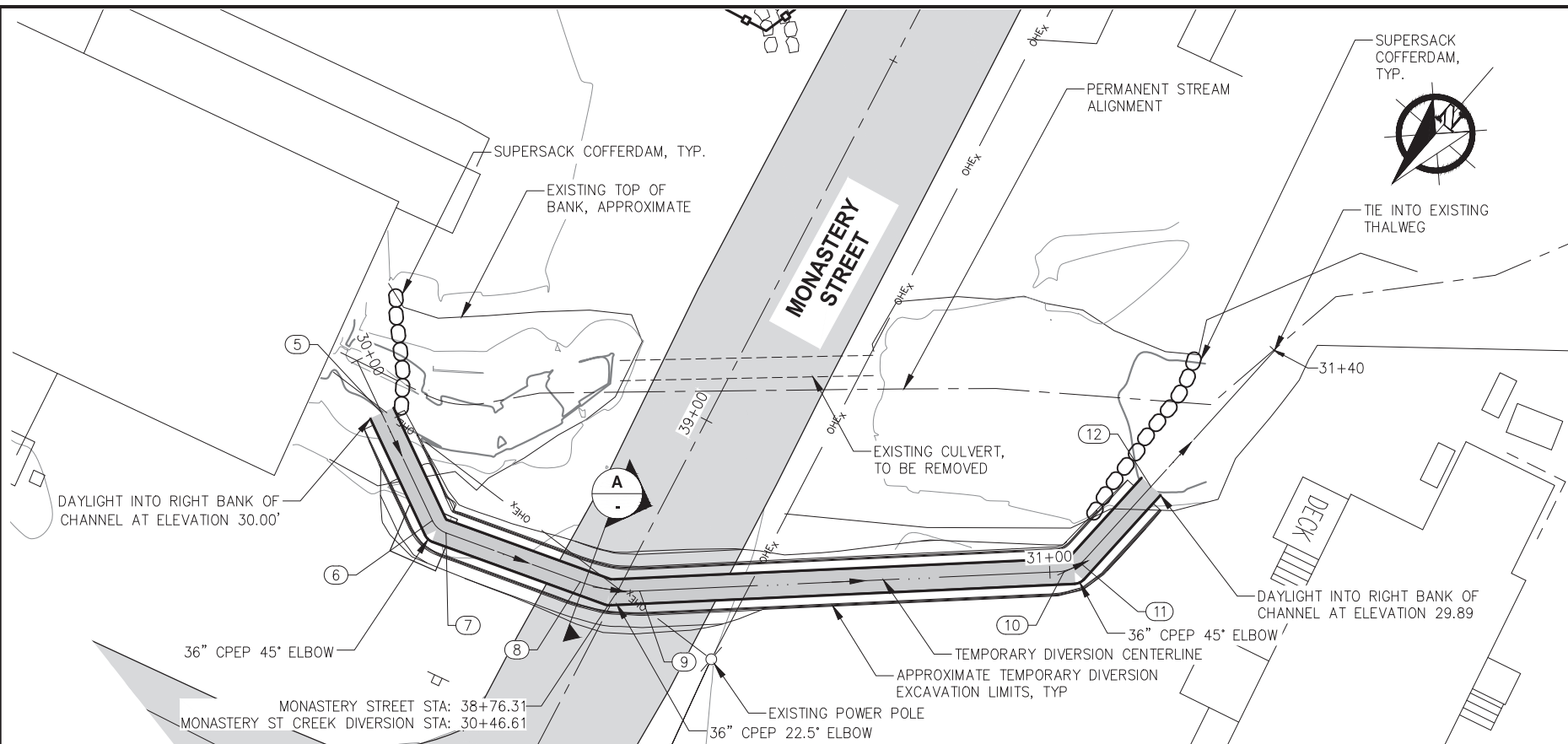
**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE:
**TEMPORARY DIVERSION PLAN AND
 PROFILE AT LAKE STREET**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

H5

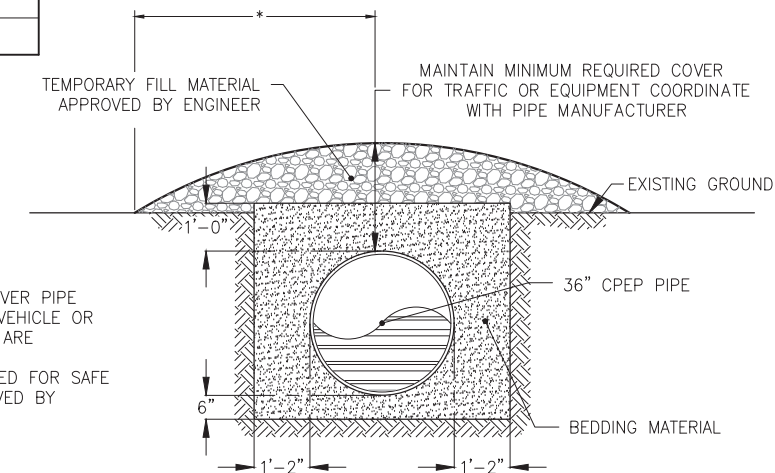
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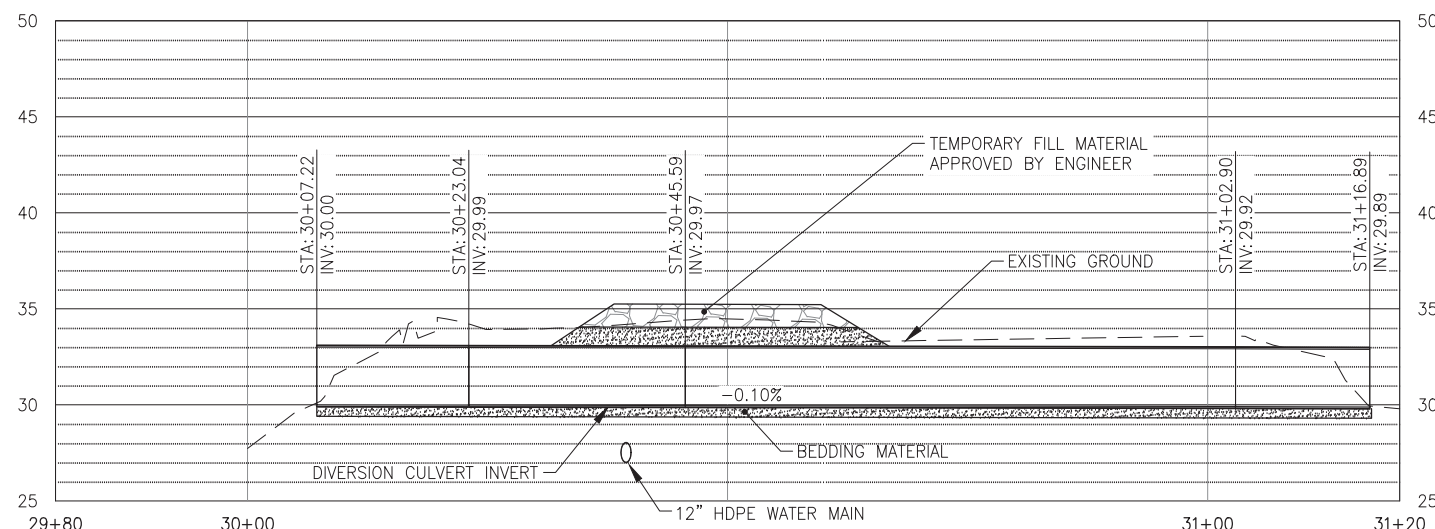
**WRINKLENECK CREEK TEMPORARY DIVERSION
PLAN - MONASTERY STREET**

TEMPORARY DIVERSION HYDROLOGIC & HYDRAULIC SUMMARY	
DRAINAGE AREA:	0.3 SQUARE MILES
EXCEEDANCE PROBABILITY:	50%
RETURN PERIOD:	2 YEARS (Q2)
DESIGN DISCHARGE:	40 CFS
DESIGN WATER ELEVATION:	33.73
HEADWATER/DIAMETER RATIO:	1.30

NOTE:
TEMPORARY FILL OVER PIPE
REQUIRED WHERE VEHICLE OR
EQUIPMENT LOADS ARE
ANTICIPATED.
*WIDTH AS REQUIRED FOR SAFE
TRAVEL AS APPROVED BY
ENGINEER



A CREEK DIVERSION TYPICAL SECTION

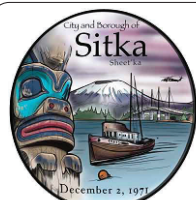


**WRINKLENECK CREEK TEMPORARY DIVERSION
PROFILE - MONASTERY STREET**

CREEK DIVERSION LAYOUT					
POINT	DIVERSION STATION	MONASTERY ST. STATION	MONASTERY ST. OFFSET	APPROXIMATE ELEVATION	DESCRIPTION
5	30+07.19	38+82.27	-35.98'LT	30.00'	BEGIN CHANNEL DIVERSION
6	30+21.83	38+73.41	-24.32'LT	29.99'	PC
7	30+24.17	38+72.82	-22.12'LT	29.99'	PT
8	30+41.81	38+75.10	-4.63'LT	29.97'	PC
9	30+49.29	38+77.49	2.41'RT	29.96'	PT
10	31+01.76	39+03.81	47.81'RT	29.92'	PC
11	31+04.05	39+05.64	49.20'RT	29.92'	PT
12	31+16.88	39+18.06	52.48'RT	29.89'	END CHANNEL DIVERSION

NOTES:

- EXISTING ROADWAY CONDITIONS SHOWN.
- CONSTRUCT DIVERSION BEFORE REMOVING EXISTING CULVERTS.
- DIVERSION DETAILS PROVIDED FOR INFORMATION ONLY. SUBMIT DIVERSION DESIGN PRIOR TO CONSTRUCTION.



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DRAFT
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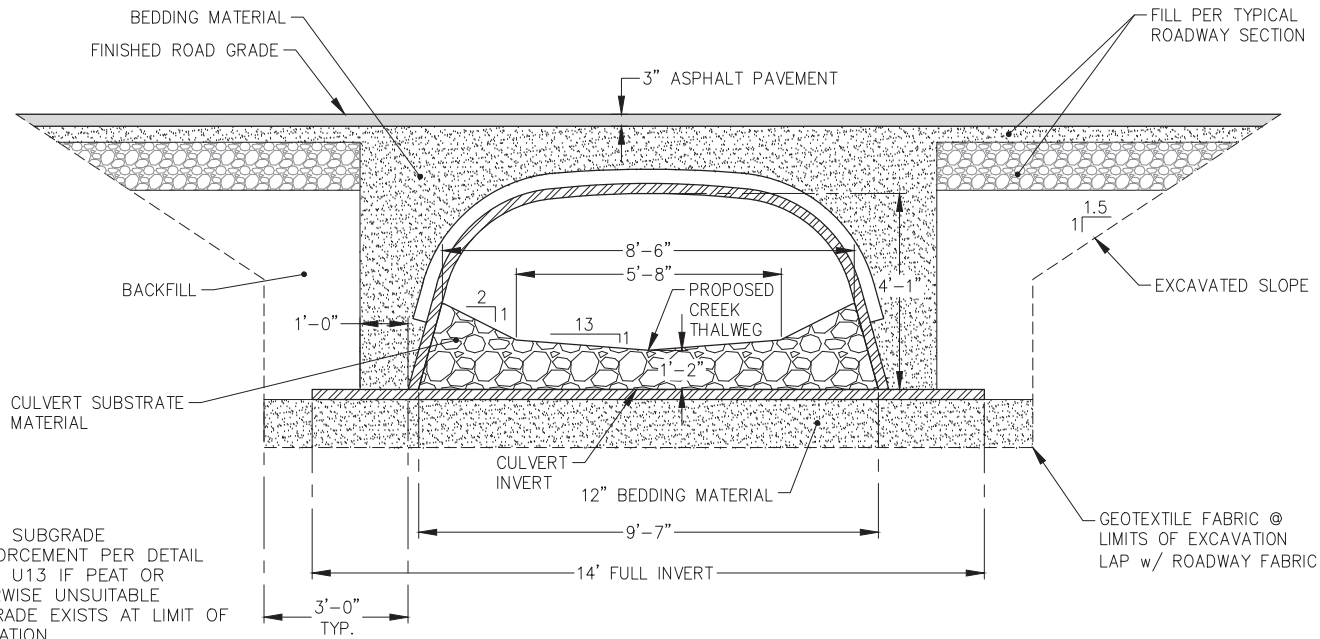
**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE:
**TEMPORARY DIVERSION PLAN AND
PROFILE AT MONASTERY STREET**

H6

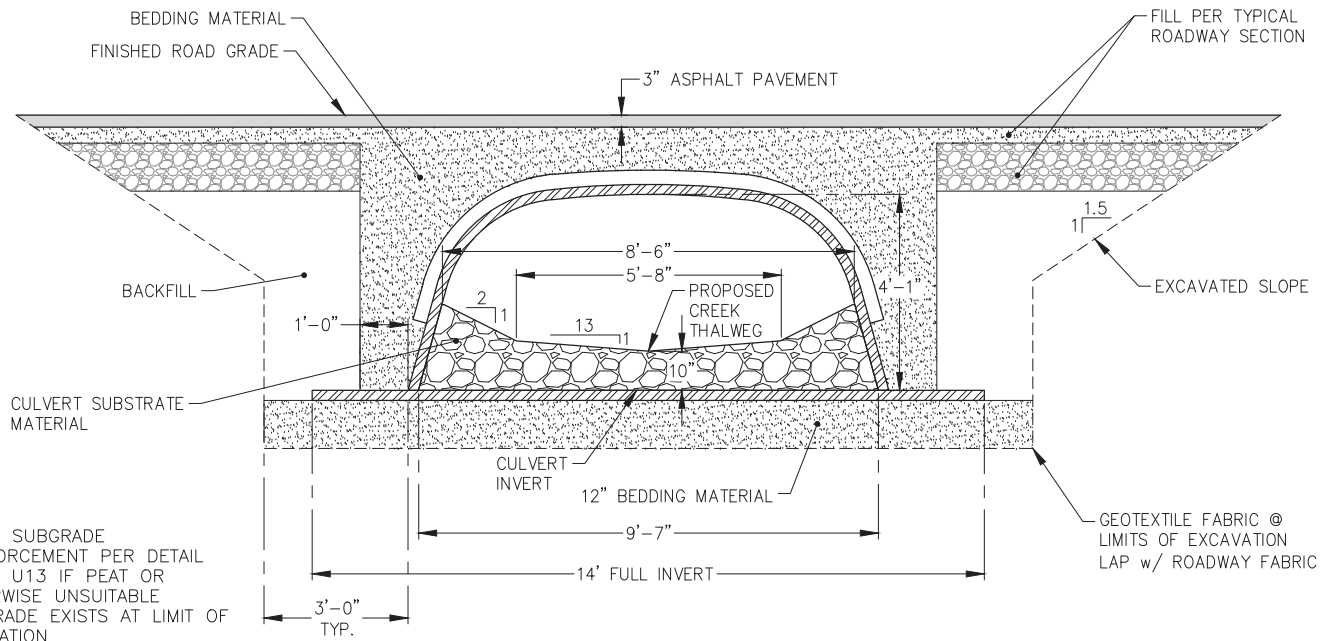
PND PROJECT #: 222100 C.A.N. NO.: AECC250

n:\22xxx\222100_cbs_lm utility and street improvements\g_drawings\1_design\6_H&H\H7 Wrinkleneck_Typical Sections.dwg - Plane - 3/26/2024



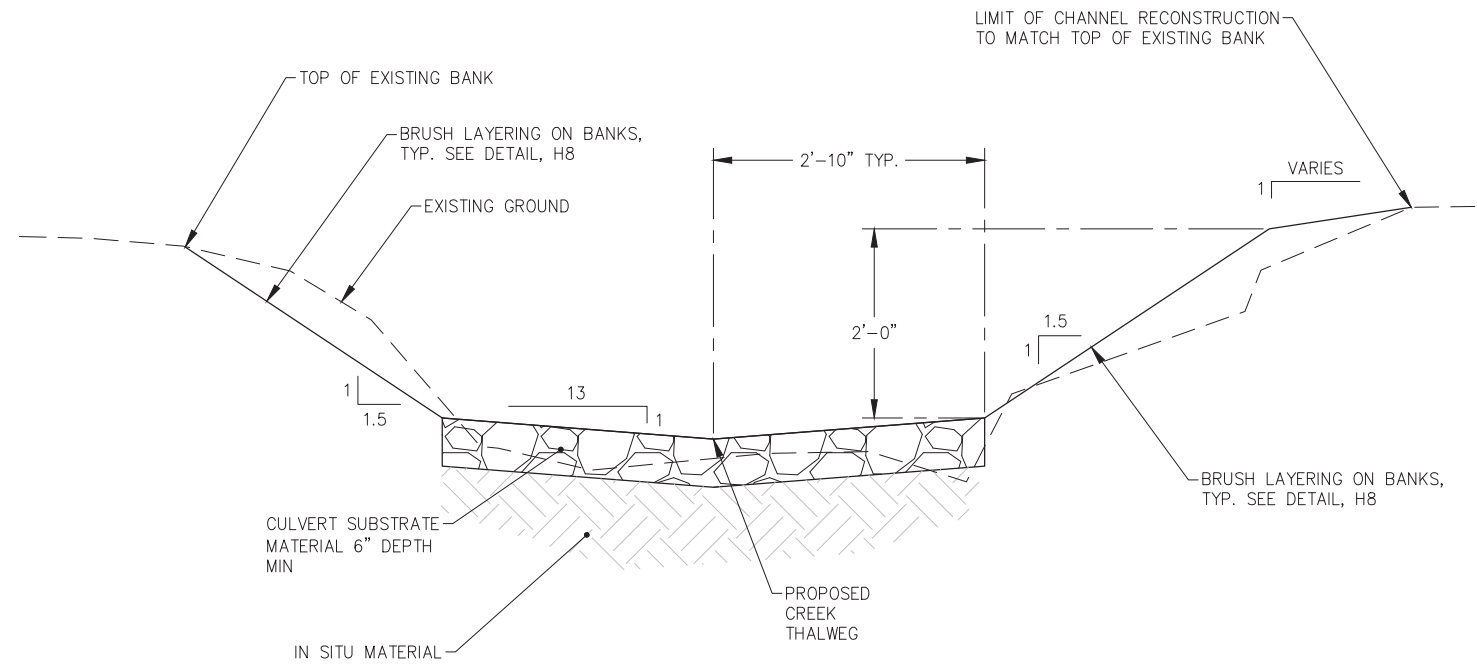
NOTE:
APPLY SUBGRADE REINFORCEMENT PER DETAIL SHEET U13 IF PEAT OR OTHERWISE UNSUITABLE SUBGRADE EXISTS AT LIMIT OF EXCAVATION

B LAKE STREET AQUATIC ORGANISM PASSAGE CULVERT



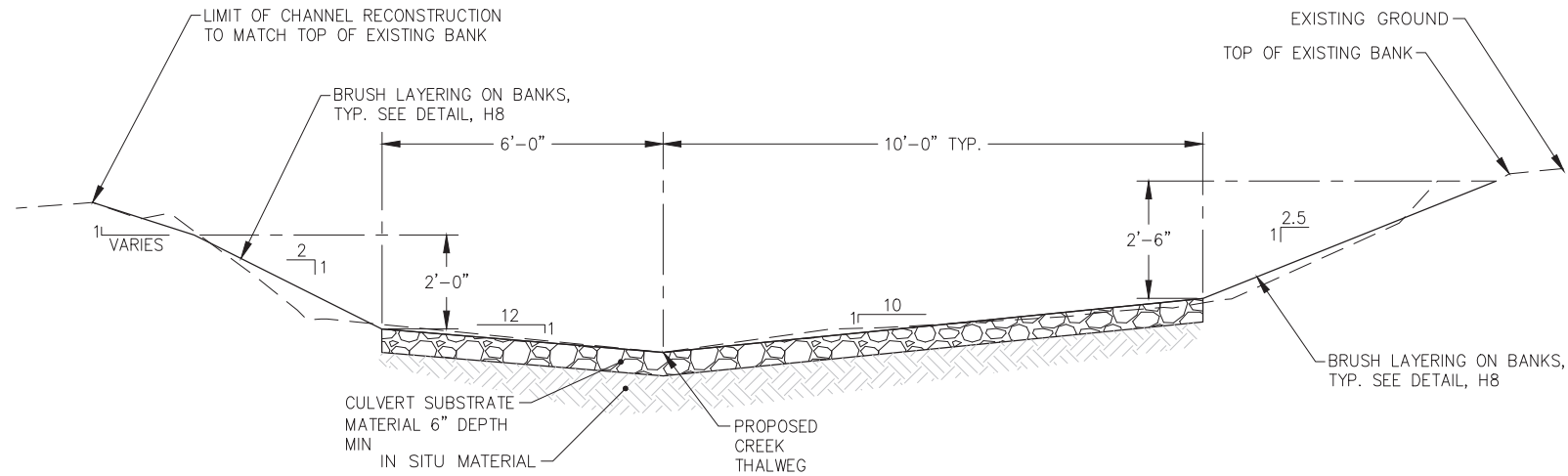
NOTE:
APPLY SUBGRADE REINFORCEMENT PER DETAIL SHEET U13 IF PEAT OR OTHERWISE UNSUITABLE SUBGRADE EXISTS AT LIMIT OF EXCAVATION

C MONASTERY STREET AQUATIC ORGANISM PASSAGE CULVERT



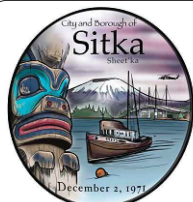
A WRINKLENECK CREEK RECONSTRUCTION

NOTES:
1. GRADUALLY TAPER BANKS INTO EXISTING BANKS AT TIE-IN LOCATIONS.
2. BRUSH LAYERING TO BE INSTALLED AT MONASTERY STREET CROSSING AND UPSTREAM OF LAKE STREET ONLY DO NOT INSTALL WILLOWS IN THE LAKE



D WRINKLENECK CREEK RECONSTRUCTION

NOTE:
GRADUALLY TAPER BANKS INTO EXISTING BANKS AT TIE-IN LOCATIONS.



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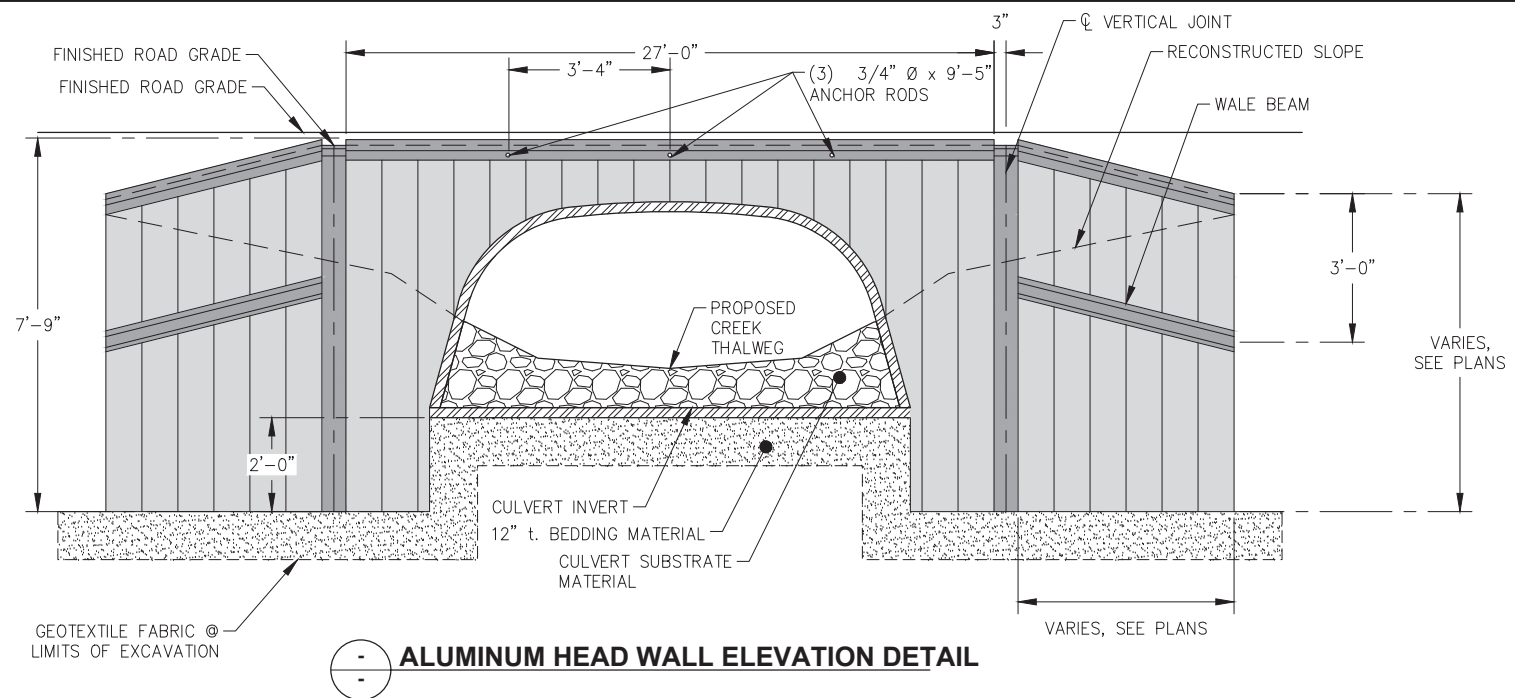
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **CULVERT CROSSING TYPICAL SECTIONS**

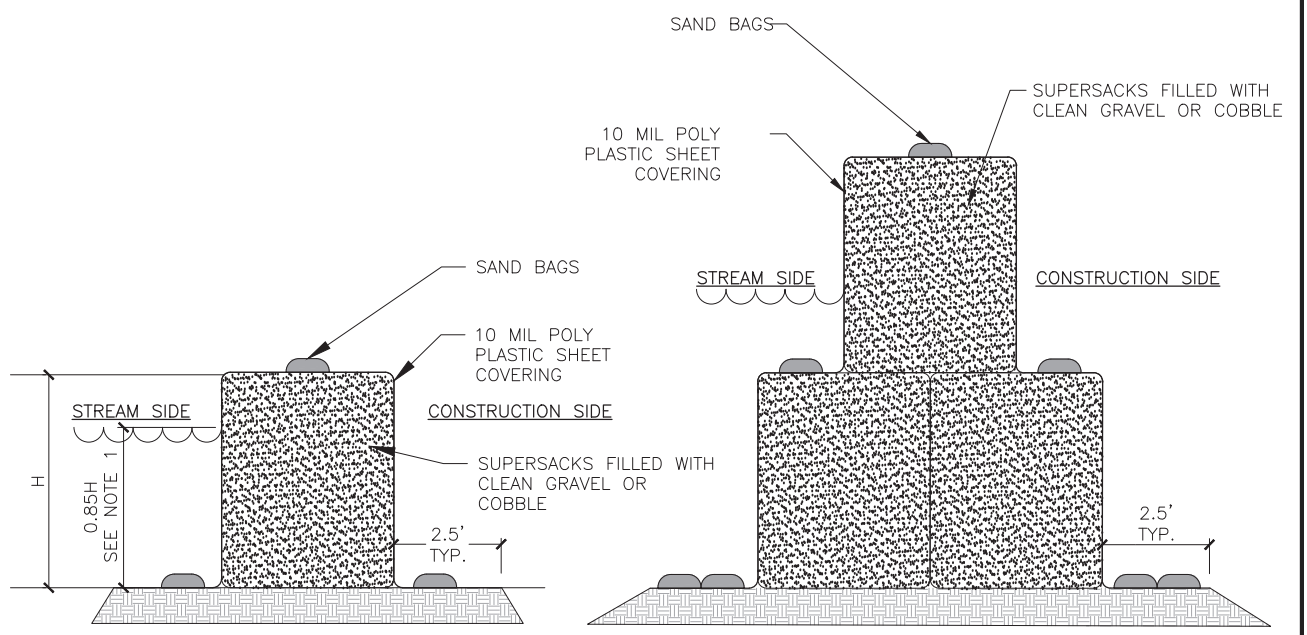
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H7

n:\22xxx\222100 cbs lhmk utility and street improvements\g. drawings\1. design\6. H&H\H8 Wrikeneck Details.dwg - Plane - 4/12/2024

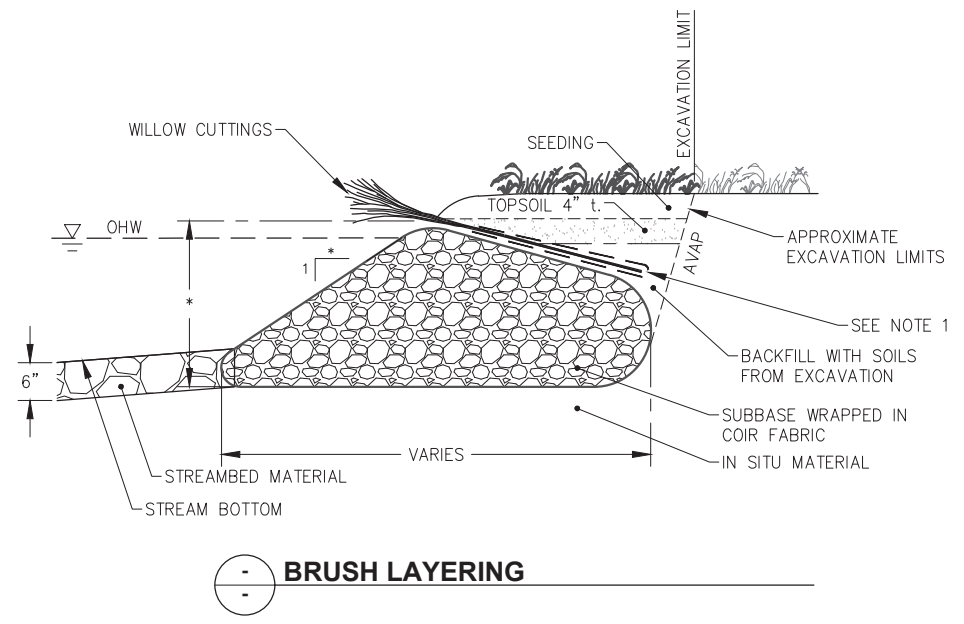


ALUMINUM HEAD WALL ELEVATION DETAIL



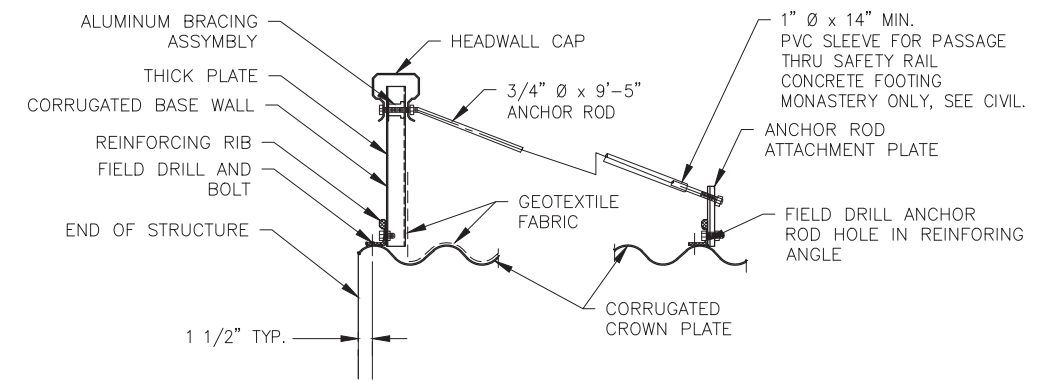
SUPERSACK COFFERDAM

- NOTES:
- IF WATER LEVEL RISES ABOVE 0.85 TIMES THE HEIGHT OF THE SUPERSACK, ADDITIONAL SUPERSACKS ARE NEEDED. THE BOTTOM ROW SHOULD CONSIST OF TWO SUPERSACKS SIDE BY SIDE WITH A ROW OF SUPERSACKS ON TOP.
 - PLACE SAND BAGS ALONG SUPERSACK COFFERDAM AS REQUIRED TO SECURE POLY PLASTIC SHEETING.
 - OVERLAP POLY PLASTIC SHEETING EDGES A MINIMUM OF 12". PLACE TOP OVERLAP ON THE UPSTREAM SIDE, SO THAT THE TOP OVERLAP IS IN THE DIRECTION OF FLOW.
 - DO NOT FILL A SINGLE SUPERSACK MORE THAN 3/4 FULL. DOUBLE BAGGED SUPERSACKS MAY BE FULLY FILLED.
 - DO NOT RUSE SUPERSACKS. NEW SUPERSACKS ARE REQUIRED.

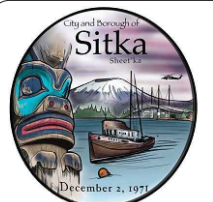


BRUSH LAYERING

- NOTES:
- SURROUND DORMANT CUTTINGS WITH TOPSOIL.
 - SPECIES OF DORMANT CUTTING MUST BE SUITABLE FOR LOCAL APPLICATION, AND APPROVED BY ENGINEER.
 - DISTANCE TO TOP OF BANK, AND SLOPE OF BANK DETERMINED BY RECONSTRUCTION SECTION.



ALUMINUM HEAD WALL ATTACHMENT DETAIL



City and Borough of Sitka
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**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **CULVERT CROSSING DETAILS**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

H8

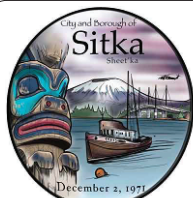
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SANITARY SEWER STRUCTURES				
STRUCTURE	STATION	OFFSET	RIM ELEV.	TYPE
SSMHL8	9+37.91	2.00 RT.	38.38	TYPE A MH
SSMHL7	9+37.94	7.00 LT.	38.26	TYPE A MH
SSMHL6	9+90.65	7.00 LT.	37.39	TYPE A MH
SSMHL5	11+85.43	7.00 LT.	34.08	TYPE A MH
SSMHL4	14+33.50	7.00 LT.	33.20	TYPE A MH
SSMHL3	15+70.47	9.00 LT.	34.34	TYPE A MH
SSMHL2	18+32.98	9.00 LT.	31.56	TYPE A MH
SSMHL1	20+21.52	6.64 LT.	31.10	TYPE A MH
SSMHM7	30+33.37	6.00 RT.	43.98	TYPE A MH
SSMHM6	31+84.49	6.00 RT.	37.78	TYPE A MH
SSMHM5	33+44.81	6.00 RT.	34.04	TYPE A MH
SSMHM4	35+48.50	6.00 RT.	33.34	TYPE A MH
SSMHM3	37+05.17	6.00 RT.	35.64	TYPE A MH
SSMHM2	39+76.59	6.00 LT.	34.50	TYPE A MH w/ SLABTOP
SSMHM1	41+33.49	6.00 LT.	37.71	TYPE A MH
SSMHK1	51+32.18	4.50 LT.	32.15	TYPE A MH
SSMHK2	52+55.28	5.50 LT.	34.18	TYPE A MH
SSMHK3	53+96.74	5.50 LT.	38.49	TYPE A MH
SSMHH1	61+69.56	8.00 LT.	33.35	TYPE A MH
SSMHH2	63+28.83	4.18 LT.	35.44	TYPE A MH
SSMHH3	64+61.05	7.61 LT.	35.43	TYPE A MH
SSMHH4	65+65.55	8.00 LT.	36.05	TYPE A MH

SANITARY SEWER DRAIN PIPE						
PIPE	TYPE	LENGTH	FROM	INVERT	TO	INVERT
CTE	8" PVC	7.00'		31.95	SSMHL8	31.90
SSPA1	8" PVC C900	27.00'		31.00	SSMHL6	30.40
SSPH1	8" PVC C900	158.02'	SSMHH1	24.30	SSMHL2	23.10
SSPH2	8" PVC C900	159.10'	SSMHH2	25.75	SSMHH1	24.50
SSPH3	8" PVC C900	132.50'	SSMHH3	28.15	SSMHH2	25.95
SSPH4	8" PVC C900	104.28'	SSMHH4	30.08	SSMHH3	28.35
SSPK1	8" PVC C900	125.20'	SSMHK1	26.20	SSMHL4	25.57
SSPK2	8" PVC C900	123.29'	SSMHK2	27.01	SSMHK1	26.40
SSPK3	8" PVC C900	141.46'	SSMHK3	31.25	SSMHK2	27.21
SSPK4	8" PVC C900	38.47'	SSCO	31.60	SSMHK3	31.45
SSPK5	8" PVC C900	46.20'	SSCO	32.84	SSMHK3	31.45
SSPL1	14" PVC C900	37.79'	SSPL2	22.42	SSMHL1	22.30
SSPL2	14" HDPE SDR 17	40.00'	SSPL3	22.55	SSPL1	22.42
SSPL3	14" PVC C900	110.86'	SSMHL2	22.90	SSPL2	22.55
SSPL4	14" PVC C900	262.52'	SSMHL3	24.14	SSMHL2	23.10
SSPL5	14" PVC C900	139.15'	SSMHL4	25.02	SSMHL3	24.33
SSPL6	14" PVC C900	248.08'	SSMHL5	27.72	SSMHL4	25.22
SSPL7	14" PVC C900	194.78'	SSMHL6	29.93	SSMHL5	27.92
SSPL8	14" PVC C900	52.70'	SSMHL7	31.05	SSMHL6	30.13
SSPL9	8" PVC C900	9.00'	SSMHL8	31.70	SSMHL7	31.60
SSPL10	14" PVC C900	7.48'		31.25	SSMHL7	31.25
SSPM1	8" PVC C900	156.90'	SSMHM2	31.06	SSMHM1	30.34
SSPM2	8" PVC C900	120.67'	SSMHM3	26.55	SSMHH2	25.94
SSPM3	8" PVC C900	156.66'	SSMHM4	27.54	SSMHM3	26.75
SSPM4	8" PVC C900	89.10'	SSMHM5	27.66	SSMHK2	27.21
SSPM5	8" PVC C900	160.13'	SSMHM6	30.18	SSMHM5	27.86
SSPM6	8" PVC C900	151.13'	SSMHM7	36.68	SSMHM6	30.38

WATER AND SEWER SYSTEMS GENERAL NOTES:

1. MAINTAIN 10' MIN. HORIZONTAL CLEARANCE FROM WATER MAIN TO SEWER AND STORM DRAIN MAINS AT ALL LOCATIONS EXCEPT AT CROSSINGS AND WHERE OTHERWISE NOTED.
2. AT ALL CROSSINGS MAINTAIN 18" VERTICAL CLEARANCE FROM WATER MAIN TO SEWER OR STORM MAINS AND 9'-0" MIN. HORIZONTAL CLEARANCE FROM WATER MAIN PIPE JOINTS TO SEWER OR STORM MAIN PIPE JOINTS, EXCEPT AS NOTED OR UNLESS OTHERWISE APPROVED BY THE ENGINEER.
3. WATER SERVICES IAW CBS STD DTL 60-7.5, SEWER SERVICES IAW CBS STD DTL 50-11M.
4. CONSTRUCT SEWER MANHOLES IAW CBS STD DTL 50-2. FRAMES AND COVERS PROVIDED BY CBS.
5. HYDRANTS IAW CBS STD DTL 60-4M. HYDRANT ACCESS PAD SHALL BE IAW CBS STD DTL 60-5 EXCEPT SURFACES SHALL BE BASE COURSE GRADING C-1 OR D-1. PAD SHALL BE INCIDENTAL TO HYDRANT. GUARD POSTS SHALL BE IAW CBS STD DTL 60-6.
6. COUPLING FOR DISSIMILAR SANITARY SEWER MAINS SHALL BE ROMAC STYLE 501 W/ EPOXY COATING AND STAINLESS STEEL HARDWARE.
7. CONTRACTOR SHALL FURNISH AND INSTALL ALL ADAPTERS, ELBOWS AND OTHER FITTINGS AS REQUIRED TO CONNECT TO EXISTING SERVICES, INCIDENTAL.
8. ALL WATER SERVICES SHALL MAINTAIN 3' HORIZONTAL CLEAR TO SEWER SERVICES.
9. INSULATE WATER SERVICES AT STORM DRAIN OR SEWER CROSSINGS AS REQUIRED PER ENGINEER DIRECTION.
10. WATER SERVICE LINES SHALL BE ROUTED OVER SEWER TO EXTENT POSSIBLE. IN INSTANCES WHERE SERVICE BURY DEPTH WOULD BE LESS THAN 5', SERVICE LINE SHALL BE INSULATED PER ENGINEER DIRECTION.
11. SUPPORT AND RE-BED ALL PIPES UNCOVERED WITH BEDDING MATERIAL PER TRENCH DETAILS.
12. INVERT ELEVATIONS OF EXISTING PIPES AT CROSSINGS ARE ESTIMATED BASED ON PROXIMITY TO KNOWN PIPE ELEVATIONS AND FIELD OBSERVATIONS, ACCURACY IS NOT WARRANTED. FIELD CONFIRM ALL EXISTING UTILITIES.
13. GRADE ADJUSTMENTS FOR NEW & EXISTING MANHOLES WITHIN PAVEMENT SHALL BE WITH EJIW "INFRA-RISER" 1"t. MIN. 3"t. MAX. REQUIRED UNLESS OTHERWISE APPROVED BY THE ENGINEER. RINGS SHALL BE TAPERED OR SHIMMED TO MATCH GRADE.
14. CONTRACTOR MAY BEND WATER MAIN IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS TO ACHIEVE VERTICAL ALIGNMENT.
15. THE WATERLINE PROFILE HAS BEEN DEVELOPED TO ALLOW TRAPPED AIR BLOW-OFF FROM HYDRANT LOCATIONS. UNLESS OTHERWISE APPROVED BY THE ENGINEER, DEVIATIONS FROM DESIGN PROFILES SHALL NOT BE PERMITTED. DEVIATIONS FROM THE DESIGN PROFILES SHALL ONLY BE CONSIDERED BY THE ENGINEER WHEN, IN THE OPINION OF THE ENGINEER, ALTERNATIVES ARE UNAVAILABLE, COST PROHIBITIVE OR OTHERWISE DETRIMENTAL TO CBS FACILITIES. DEVIATIONS THAT, IN THE OPINION OF THE ENGINEER RESULT IN UNSATISFACTORY CONDITIONS SHALL NOT BE APPROVED.



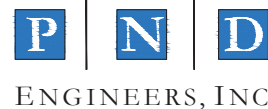
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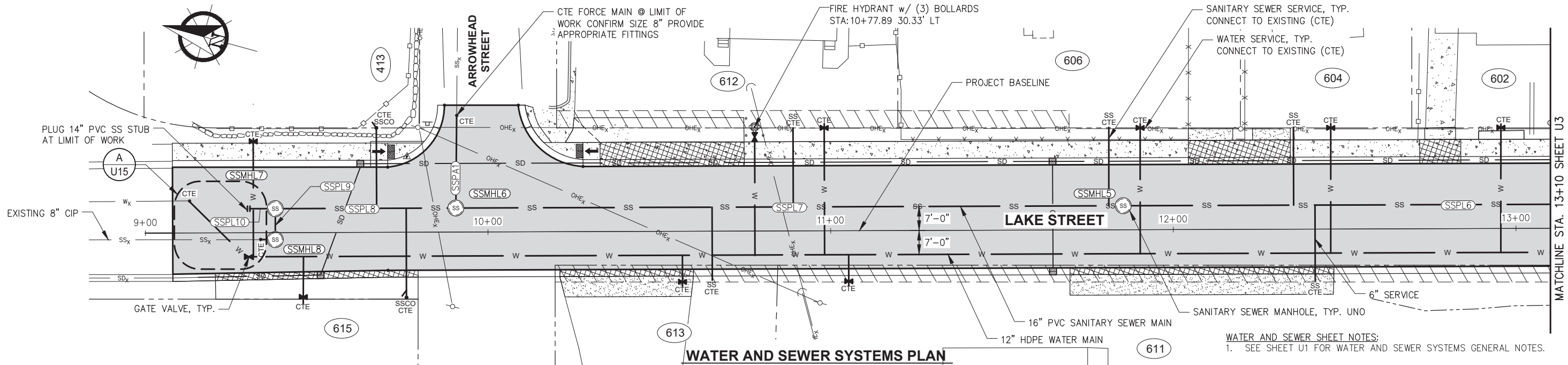
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: WATER AND SEWER GENERAL NOTES

U1

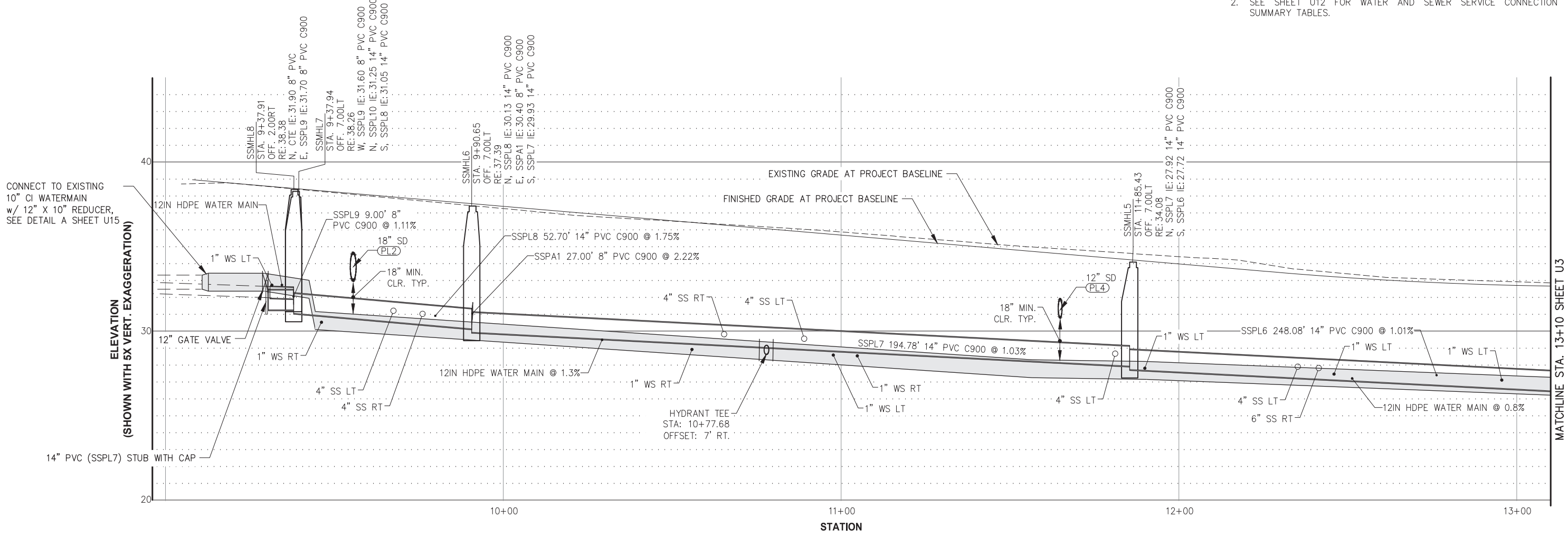
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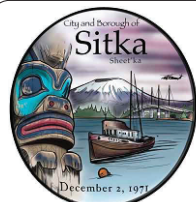


WATER AND SEWER SYSTEMS PLAN

- WATER AND SEWER SHEET NOTES:**
- SEE SHEET U1 FOR WATER AND SEWER SYSTEMS GENERAL NOTES.
 - SEE SHEET U12 FOR WATER AND SEWER SERVICE CONNECTION SUMMARY TABLES.



WATER AND SEWER SYSTEMS PROFILE



City and Borough of Sitka
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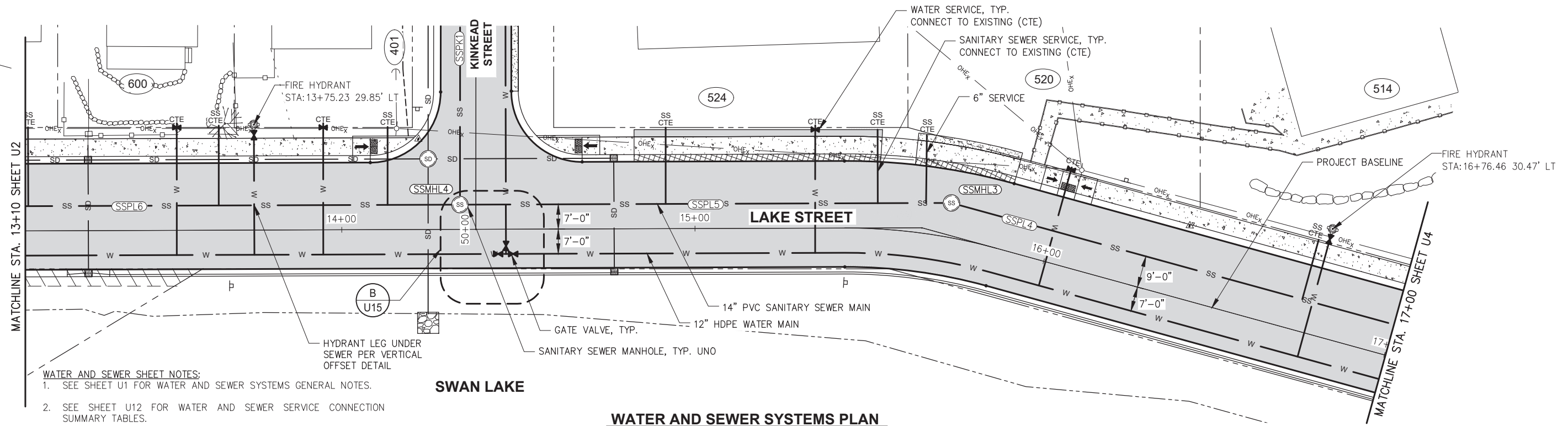
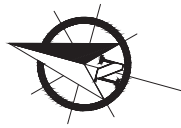
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CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **LAKE ST. WATER AND SEWER PLAN & PROFILE**
BOP TO STA. 13+10

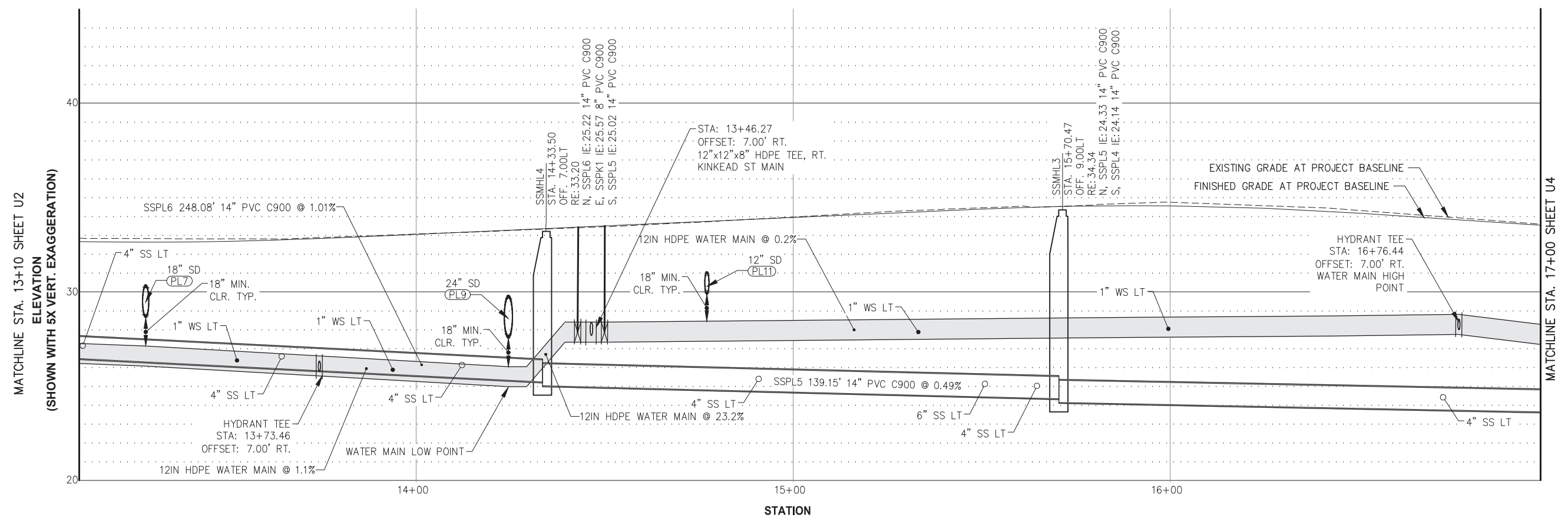
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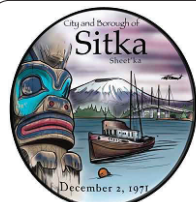


WATER AND SEWER SHEET NOTES:
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 2. SEE SHEET U12 FOR WATER AND SEWER SERVICE CONNECTION SUMMARY TABLES.

WATER AND SEWER SYSTEMS PLAN



WATER AND SEWER SYSTEMS PROFILE



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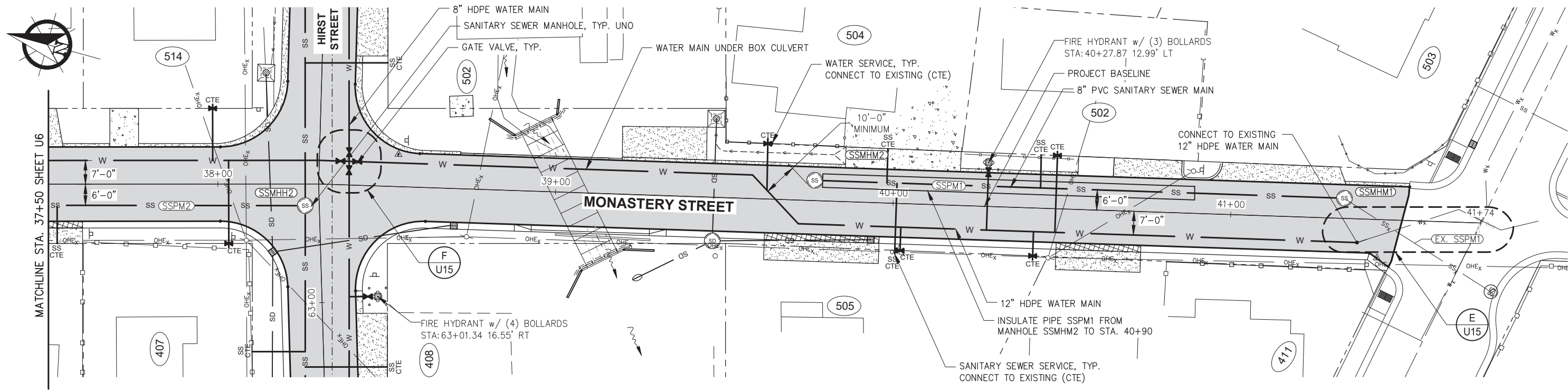
CITY AND BOROUGH OF SITKA, ALASKA
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UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **LAKE ST. WATER AND SEWER PLAN & PROFILE STA. 13+10 TO STA. 17+00**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

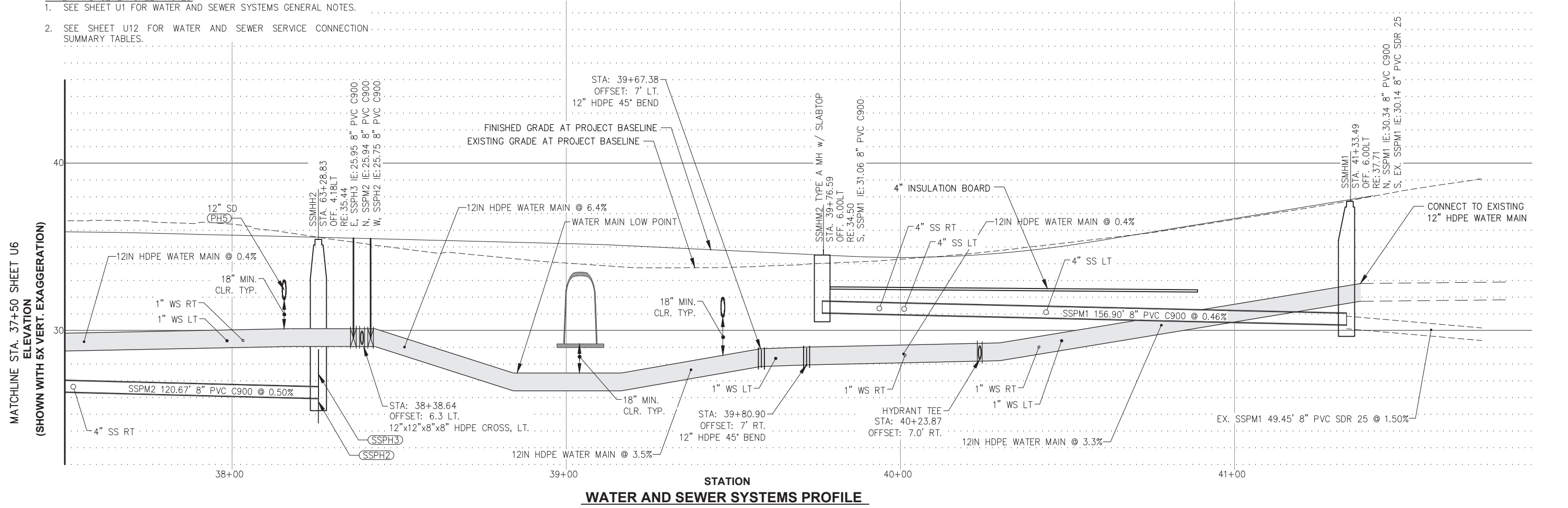
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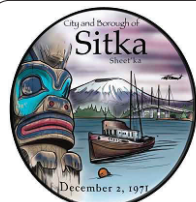


WATER AND SEWER SYSTEMS PLAN

- WATER AND SEWER SHEET NOTES:**
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 - SEE SHEET U12 FOR WATER AND SEWER SERVICE CONNECTION SUMMARY TABLES.



WATER AND SEWER SYSTEMS PROFILE



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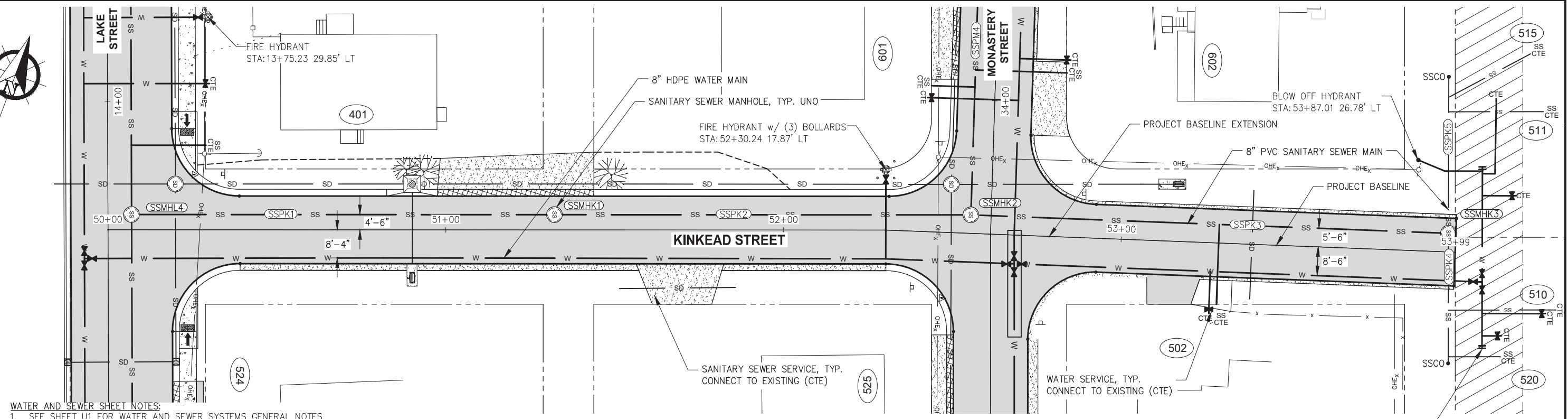
**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **MONASTERY ST. WATER AND SEWER PLAN & PROFILE STA. 37+50 TO EOP**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

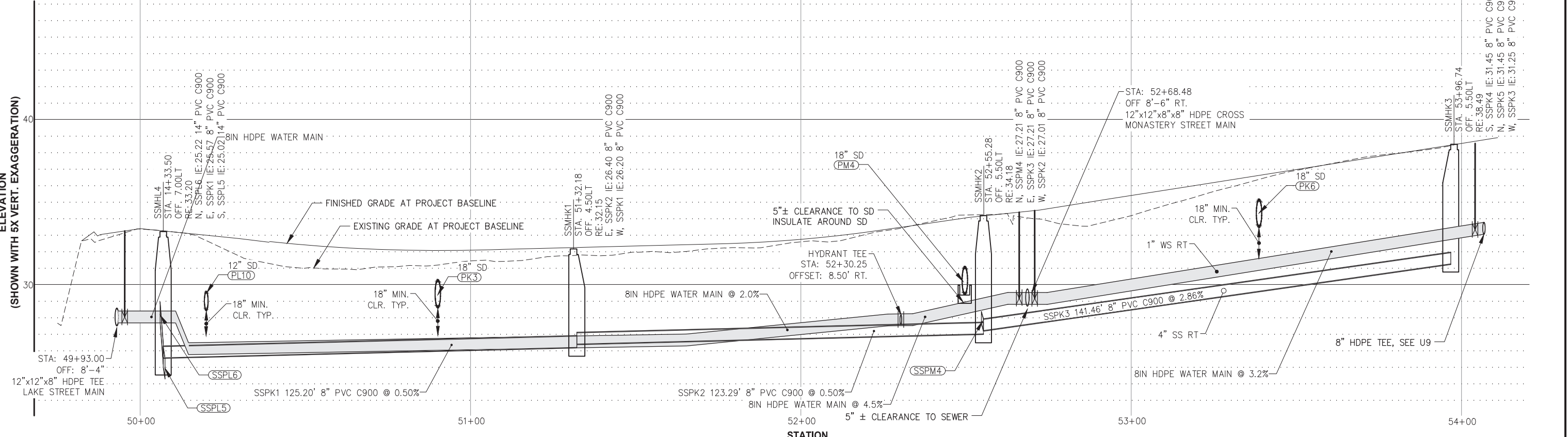
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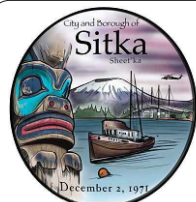


- WATER AND SEWER SHEET NOTES:**
- SEE SHEET U1 FOR WATER AND SEWER SYSTEMS GENERAL NOTES.
 - SEE SHEET U12 FOR WATER AND SEWER SERVICE CONNECTION SUMMARY TABLES.

WATER AND SEWER SYSTEMS PLAN



WATER AND SEWER SYSTEMS PROFILE



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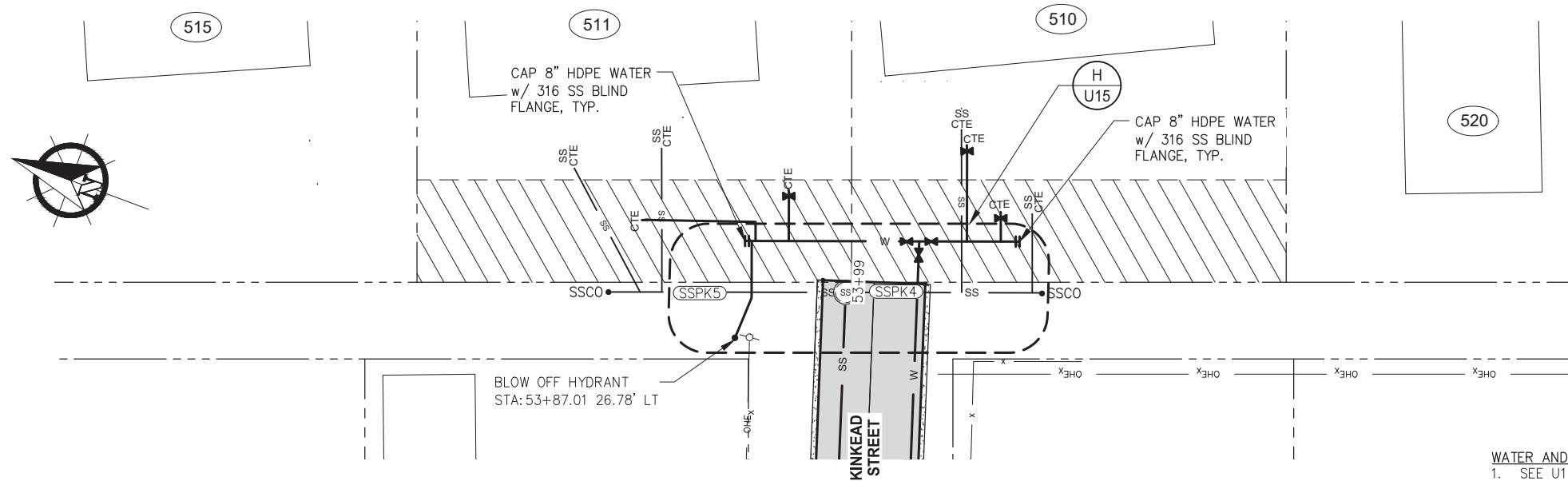
**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **KINKEAD ST. WATER
 AND SEWER PLAN & PROFILE
 BOP TO EOP**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

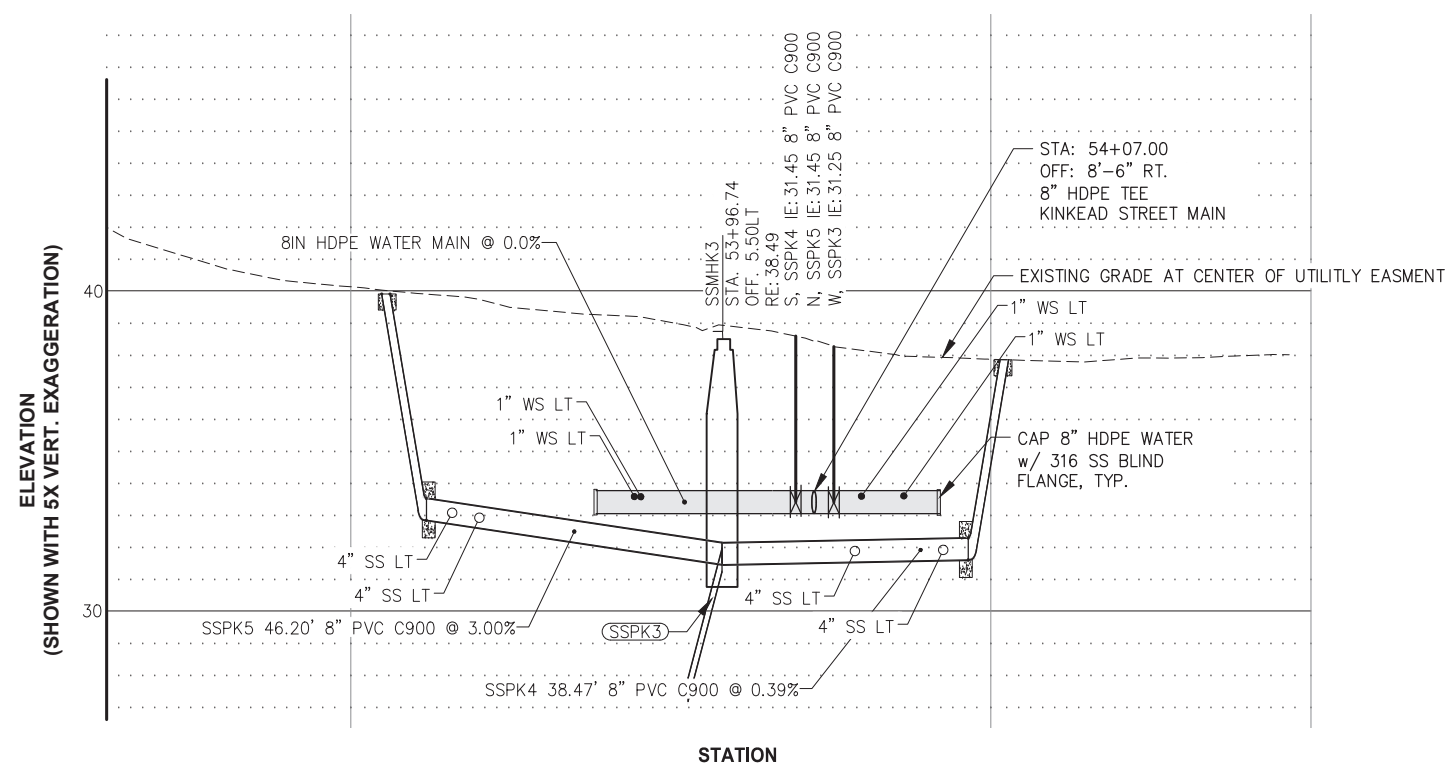
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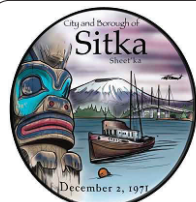


WATER AND SEWER SYSTEMS PLAN

- WATER AND SEWER SHEET NOTES:**
1. SEE U1 FOR WATER AND SEWER SYSTEMS GENERAL NOTES.
 2. SEE SHEET U12 FOR WATER AND SEWER SERVICE CONNECTION SUMMARY TABLES.
 3. UTILITY CONFIGURATIONS IN THIS AREA UNKNOWN. PERFORM EXPLORATORY EXCAVATION AS REQ'D, PER ENGINEER DIRECTION TO CONFIRM SERVICE LOCATIONS AND CONFIGURATIONS.
 4. SSCO PER CBS DETAIL 50-14



WATER AND SEWER SYSTEMS PROFILE



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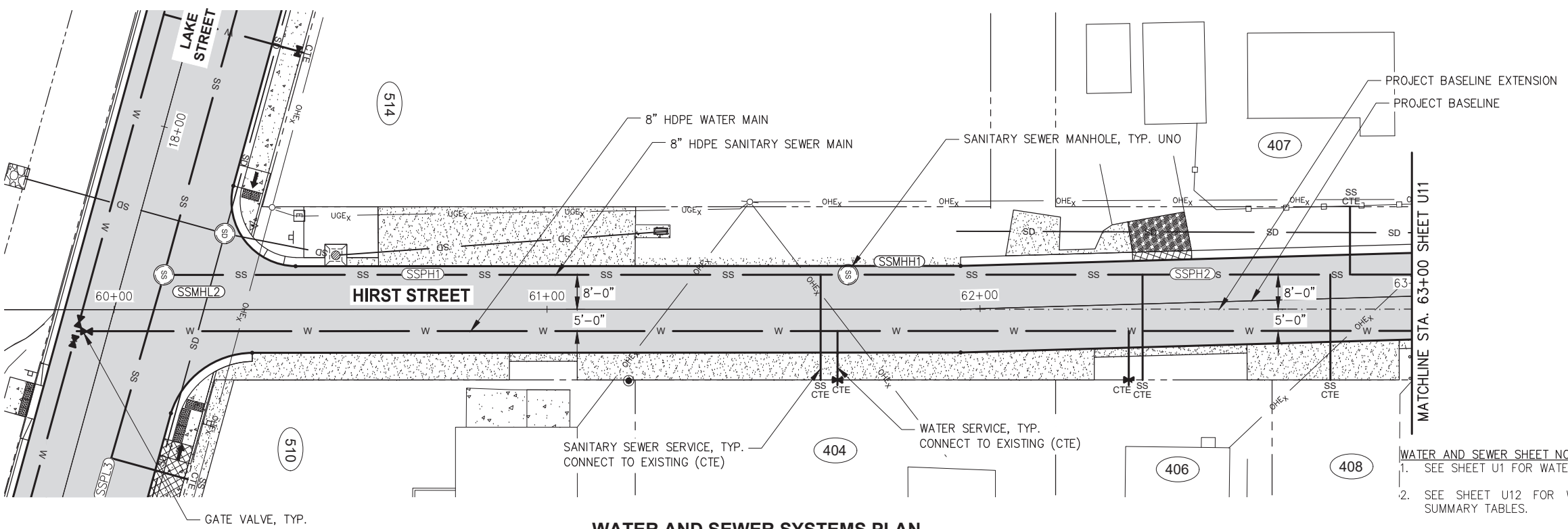
**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **KINKEAD ST. END LOTS
 WATER AND SEWER
 PLAN & PROFILE**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

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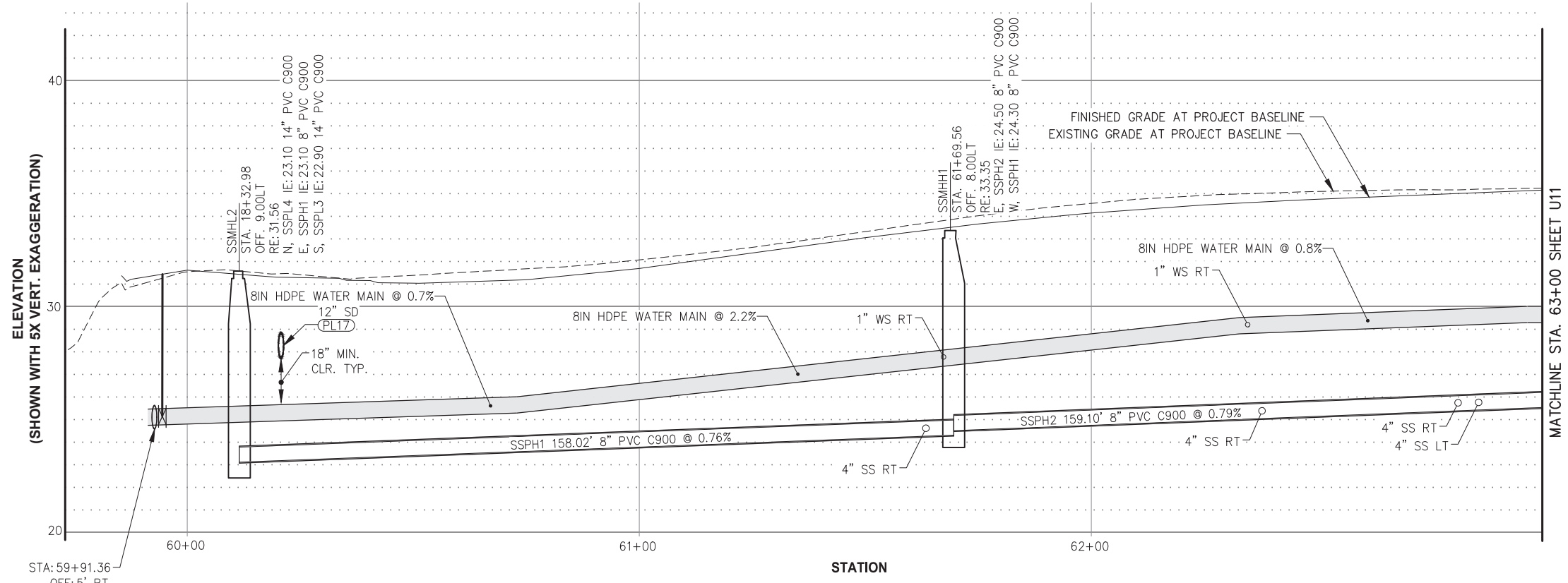
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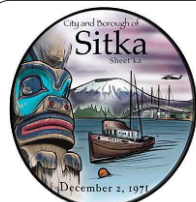
PROJECT BASELINE EXTENSION
PROJECT BASELINE

- WATER AND SEWER SHEET NOTES:**
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WATER AND SEWER SYSTEMS PLAN



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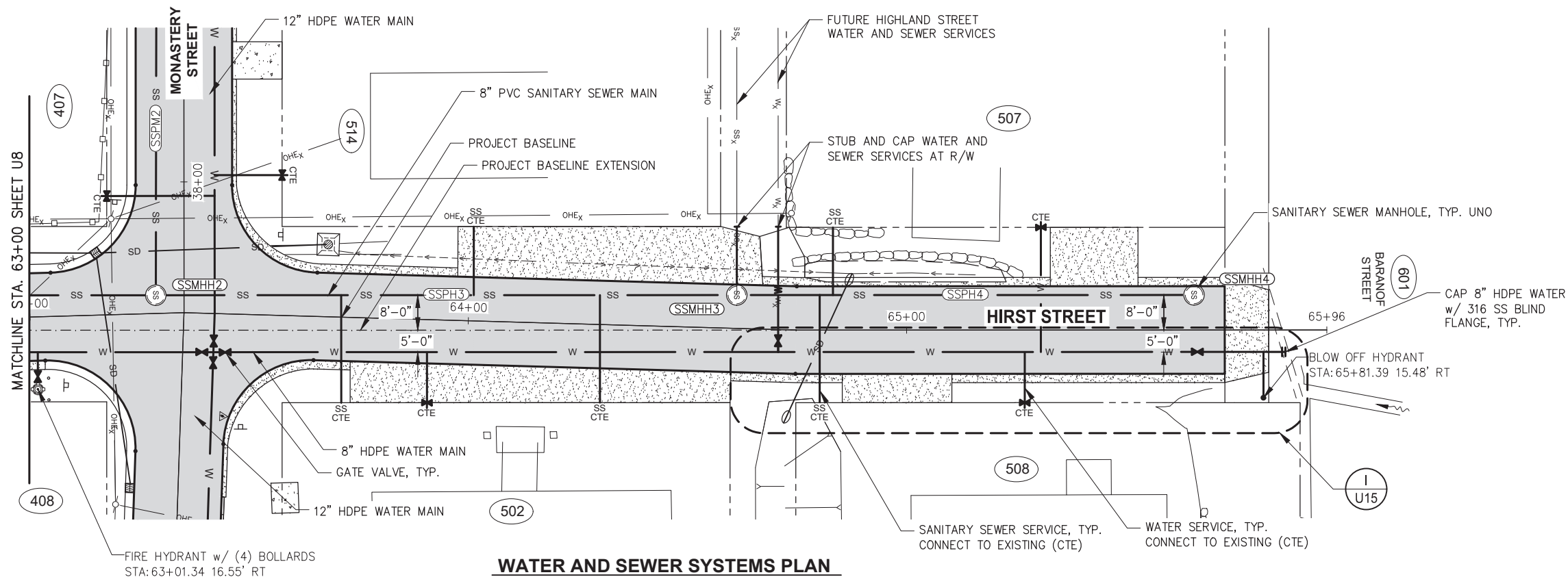
**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE: **HIRST ST. WATER AND SEWER PLAN & PROFILE BOP TO STA. 63+00**

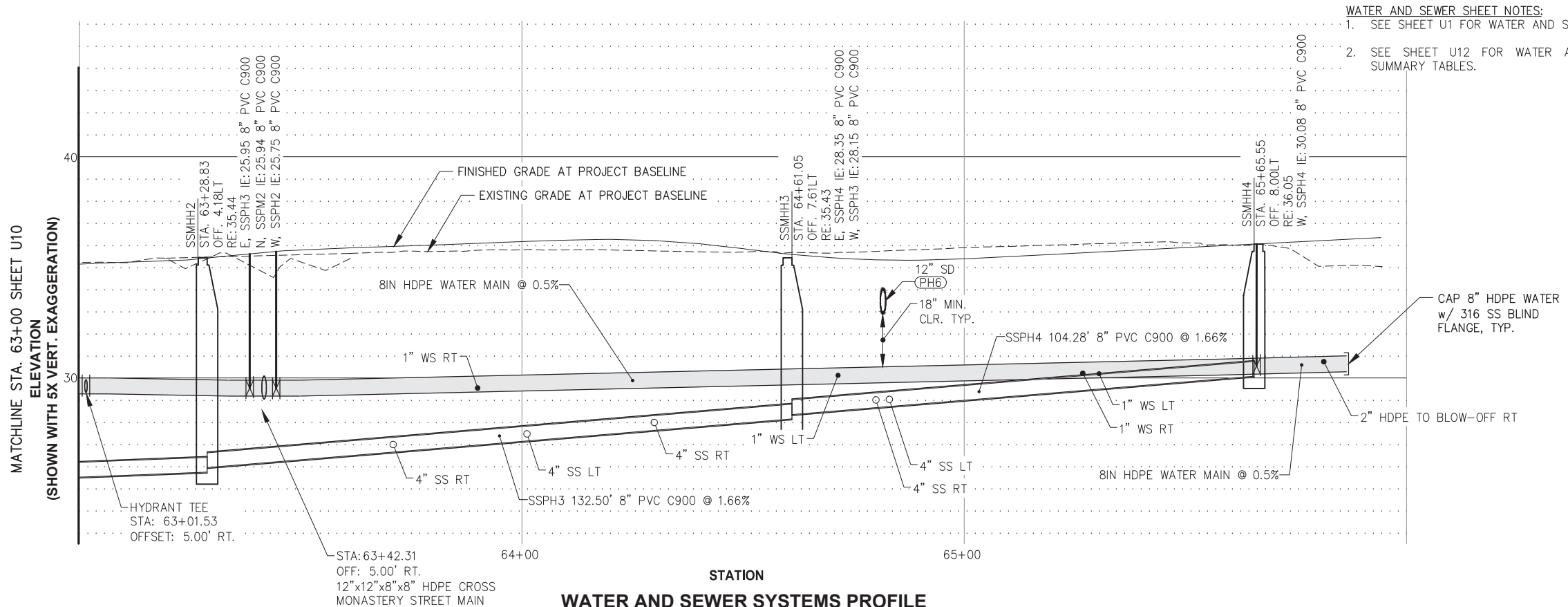
PND PROJECT #: 222100 C.A.N. NO.: AECC250

U10

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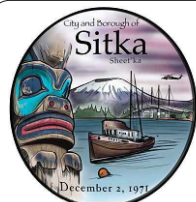


WATER AND SEWER SYSTEMS PLAN



WATER AND SEWER SYSTEMS PROFILE

- WATER AND SEWER SHEET NOTES:**
- SEE SHEET U1 FOR WATER AND SEWER SYSTEMS GENERAL NOTES.
 - SEE SHEET U12 FOR WATER AND SEWER SERVICE CONNECTION SUMMARY TABLES.



City and Borough of Sitka
DEPARTMENT OF PUBLIC WORKS
 100 LINCOLN STREET SITKA, ALASKA 99835
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 www.pndengineers.com

DESIGN: TCB CHECKED: TCB
 DRAWN: P.J.L. APPROVED: _____

SCALE: SCALE IN FEET
 0 15 30 FT.

DRAFT
 DATE: 04/12/2024

**CITY AND BOROUGH OF SITKA, ALASKA
 LAKE-HIRST AND MONASTERY-KINKEAD
 UTILITY AND STREET IMPROVEMENTS
 CBS PROJECT #2023-149**

SHEET TITLE: **HIRST ST. WATER AND SEWER PLAN & PROFILE STA. 63+00 TO EOP**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

U11

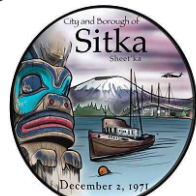
n:\22xxx\222100 cbs lhmk utility and street improvements\g. drawings\1. design\1. civil\U1-U11 C3D Utilities P&P.dwg - Plane - 4/12/2024

WATER SERVICES			
STREET ADDRESS	STATION	TYPE	REMARKS
413 ARROWHEAD STREET	9+31.60 LT	1" HDPE, CTS SDR 9	
615 LAKE STREET	9+45.99 RT	1" HDPE, CTS SDR 9	
613 LAKE STREET	10+56.70 RT	1" HDPE, CTS SDR 9	
612 LAKE STREET	10+98.22 LT	1" HDPE, CTS SDR 9	
611 LAKE STREET	11+05.24 RT	1" HDPE, CTS SDR 9	SERVICE/STA. LAKE ST. BASELINE
606 LAKE STREET	11+90.43 LT	1" HDPE, CTS SDR 9	
604 LAKE STREET	12+46.03 LT	1" HDPE, CTS SDR 9	
602 LAKE STREET	12+95.70 LT	1" HDPE, CTS SDR 9	
600 LAKE STREET	13+53.42 LT	1" HDPE, CTS SDR 9	
401 KINKEAD STREET	13+94.86 LT	1" HDPE, CTS SDR 9	
524 LAKE STREET	15+34.14 LT	1" HDPE, CTS SDR 9	SERVICE/STA. LAKE ST. BASELINE
520 LAKE STREET	16+00.58 LT	1" HDPE, CTS SDR 9	
514 LAKE STREET	17+74.98 LT	1" HDPE, CTS SDR 9	
510 LAKE STREET	19+05.02 LT	1" HDPE, CTS SDR 9	
615 MONASTERY STREET	30+45.54 RT	1" HDPE, CTS SDR 9	
612 MONASTERY STREET	30+97.05 LT	1" HDPE, CTS SDR 9	
613 MONASTERY STREET	31+30.72 RT	1" HDPE, CTS SDR 9	
608 MONASTERY STREET	31+48.41 LT	1" HDPE, CTS SDR 9	
611 MONASTERY STREET	31+97.77 RT	1" HDPE, CTS SDR 9	
607 MONASTERY STREET	32+34.87 RT	1" HDPE, CTS SDR 9	
606 MONASTERY STREET	32+43.70 LT	1" HDPE, CTS SDR 9	
604 MONASTERY STREET	33+08.76 LT	1" HDPE, CTS SDR 9	
605 MONASTERY STREET	33+16.43 RT	1" HDPE, CTS SDR 9	
602 MONASTERY STREET	33+87.26 LT	1" HDPE, CTS SDR 9	
601 MONASTERY STREET	33+99.70 RT	1" HDPE, CTS SDR 9	
525 MONASTERY STREET	35+16.06 RT	1" HDPE, CTS SDR 9	
524 MONASTERY STREET	35+68.90 LT	1" HDPE, CTS SDR 9	
521 MONASTERY STREET	35+93.75 RT	1" HDPE, CTS SDR 9	
520 MONASTERY STREET	36+35.93 LT	1" HDPE, CTS SDR 9	
518 MONASTERY STREET	36+95.30 LT	1" HDPE, CTS SDR 9	
516 MONASTERY STREET	37+22.14 LT	1" HDPE, CTS SDR 9	
517 MONASTERY STREET	37+36.35 RT	1" HDPE, CTS SDR 9	
514 MONASTERY STREET	37+98.47 LT	1" HDPE, CTS SDR 9	
407 HIRST STREET	38+03.22 RT	1" HDPE, CTS SDR 9	SERVICE/STA. MONASTERY ST. BASELINE
504 MONASTERY STREET	39+62.30 LT	1" HDPE, CTS SDR 9	
505 MONASTERY STREET	40+02.51 RT	1" HDPE, CTS SDR 9	
505 MONASTERY STREET (2)	40+41.80 RT	1" HDPE, CTS SDR 9	
502 MONASTERY STREET	40+48.11 LT	1" HDPE, CTS SDR 9	
502 KINKEAD STREET	53+26.66 RT	1" HDPE, CTS SDR 9	
515 KINKEAD STREET		1" HDPE, CTS SDR 9	FIELD CONFIRM LOCATION

WATER SERVICES			
STREET ADDRESS	STATION	TYPE	REMARKS
511 KINKEAD STREET		1" HDPE, CTS SDR 9	FIELD CONFIRM LOCATION
510 KINKEAD STREET		1" HDPE, CTS SDR 9	FIELD CONFIRM LOCATION
520 KINKEAD STREET		1" HDPE, CTS SDR 9	FIELD CONFIRM LOCATION
404 HIRST STREET	61+67.05 RT	1" HDPE, CTS SDR 9	
406 HIRST STREET	62+33.81 RT	1" HDPE, CTS SDR 9	
502 HIRST STREET	63+91.13 RT	1" HDPE, CTS SDR 9	
508 HIRST STREET	65+26.92 RT	1" HDPE, CTS SDR 9	
507 HIRST STREET	65+30.61 LT	1" HDPE, CTS SDR 9	

SEWER SERVICES			
STREET ADDRESS	STATION	TYPE	REMARKS
413 ARROWHEAD STREET	9+67.51 LT	4" PVC, C900 SDR 25	SERVICE/STA. LAKE ST. BASELINE
615 LAKE STREET	9+76.13 RT	4" PVC, C900 SDR 25	
613 LAKE STREET	10+65.40 RT	4" PVC, C900 SDR 25	
612 LAKE STREET	10+89.11 LT	4" PVC, C900 SDR 25	
606 LAKE STREET	11+81.28 LT	4" PVC, C900 SDR 25	
604 LAKE STREET	12+35.14 LT	4" PVC, C900 SDR 25	
611 LAKE STREET	12+41.35 RT	6" PVC, C900 SDR 25	
602 LAKE STREET	13+11.28 LT	4" PVC, C900 SDR 25	
600 LAKE STREET	13+65.27 LT	4" PVC, C900 SDR 25	
401 KINKEAD STREET	14+13.08 LT	4" PVC, C900 SDR 25	SERVICE/STA. LAKE ST. BASELINE
524 LAKE STREET	14+91.79 LT	4" PVC, C900 SDR 25	
524 LAKE STREET (2)	15+51.79 LT	4" PVC, C900 SDR 25	
520 LAKE STREET	15+64.24 LT	4" PVC, C900 SDR 25	
514 LAKE STREET	16+73.46 LT	4" PVC, C900 SDR 25	
514 LAKE STREET (2)	17+52.85 LT	4" PVC, C900 SDR 25	
510 LAKE STREET	18+77.04 LT	4" PVC, C900 SDR 25	
510 LAKE STREET (2)	19+37.54 LT	4" PVC, C900 SDR 25	
615 MONASTERY STREET	30+58.17 RT	4" PVC, C900 SDR 25	
612 MONASTERY STREET	30+86.04 LT	4" PVC, C900 SDR 25	
613 MONASTERY STREET	31+02.76 RT	4" PVC, C900 SDR 25	
608 MONASTERY STREET	31+62.45 LT	4" PVC, C900 SDR 25	
611 MONASTERY STREET	31+95.00 RT	4" PVC, C900 SDR 25	
607 MONASTERY STREET	32+23.93 RT	4" PVC, C900 SDR 25	
606 MONASTERY STREET	32+67.68 LT	4" PVC, C900 SDR 25	
604 MONASTERY STREET	33+30.33 LT	4" PVC, C900 SDR 25	
605 MONASTERY STREET	33+32.52 RT	4" PVC, C900 SDR 25	
602 MONASTERY STREET	33+91.07 LT	4" PVC, C900 SDR 25	
601 MONASTERY STREET	33+96.13 RT	4" PVC, C900 SDR 25	
525 MONASTERY STREET	35+53.50 RT	4" PVC, C900 SDR 25	

SEWER SERVICES			
STREET ADDRESS	STATION	TYPE	REMARKS
524 MONASTERY STREET	35+78.50 LT	4" PVC, C900 SDR 25	
521 MONASTERY STREET	36+06.29 RT	4" PVC, C900 SDR 25	
521 MONASTERY STREET (2)	36+50.55 RT	4" PVC, C900 SDR 25	
520 MONASTERY STREET	36+53.94 LT	4" PVC, C900 SDR 25	
518 MONASTERY STREET	36+98.03 LT	4" PVC, C900 SDR 25	
519 MONASTERY STREET	37+00.04 RT	4" PVC, C900 SDR 25	
516 MONASTERY STREET	37+16.79 LT	4" PVC, C900 SDR 25	
517 MONASTERY STREET	37+52.42 RT	4" PVC, C900 SDR 25	
504 MONASTERY STREET	39+97.91 LT	4" PVC, C900 SDR 25	
505 MONASTERY STREET	40+00.95 RT	4" PVC, C900 SDR 25	
502 MONASTERY STREET	40+43.35 LT	4" PVC, C900 SDR 25	
502 KINKEAD STREET	53+28.88 RT	4" PVC, C900 SDR 25	
511 KINKEAD STREET		4" PVC, C900 SDR 25	FIELD CONFIRM LOCATION
515 KINKEAD STREET		4" PVC, C900 SDR 25	FIELD CONFIRM LOCATION
510 KINKEAD STREET		4" PVC, C900 SDR 25	FIELD CONFIRM LOCATION
520 KINKEAD STREET		4" PVC, C900 SDR 25	FIELD CONFIRM LOCATION
404 HIRST STREET	61+63.18 RT	4" PVC, C900 SDR 25	
406 HIRST STREET	62+37.07 RT	4" PVC, C900 SDR 25	
408 HIRST STREET	62+80.42 RT	4" PVC, C900 SDR 25	
407 HIRST STREET	62+86.08 LT	4" PVC, C900 SDR 25	
502 HIRST STREET	63+71.58 RT	4" PVC, C900 SDR 25	
514 MONASTERY STREET	64+00.64 LT	4" PVC, C900 SDR 25	
502 HIRST STREET (2)	64+30.55 RT	4" PVC, C900 SDR 25	SERVICE/STA. HIRST ST. BASELINE
508 HIRST STREET	64+80.17 RT	4" PVC, C900 SDR 25	
507 HIRST STREET	64+83.19 LT	4" PVC, C900 SDR 25	



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SCALE:
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 0 15 30 FT.

DRAFT
 DATE: 04/12/2024

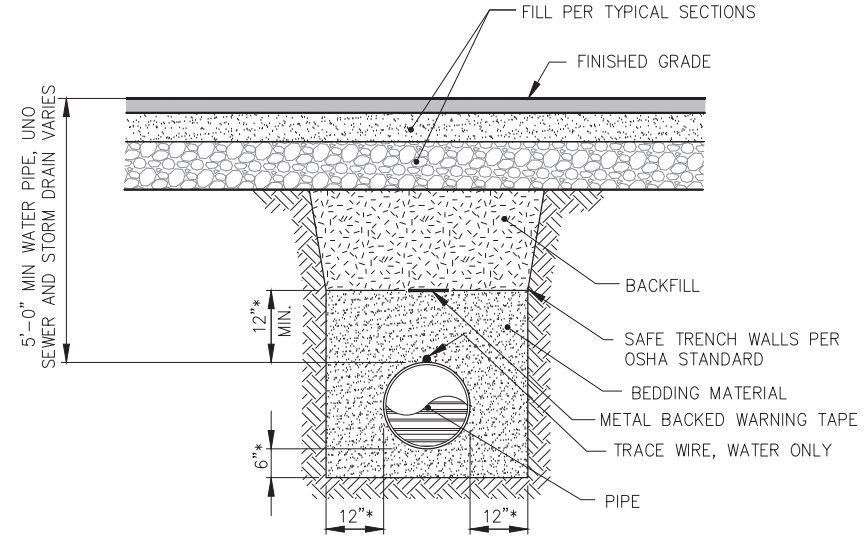
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE:
UTILITY SERVICE SUMMARY

PND PROJECT #: 222100 C.A.N. NO.: AECC250

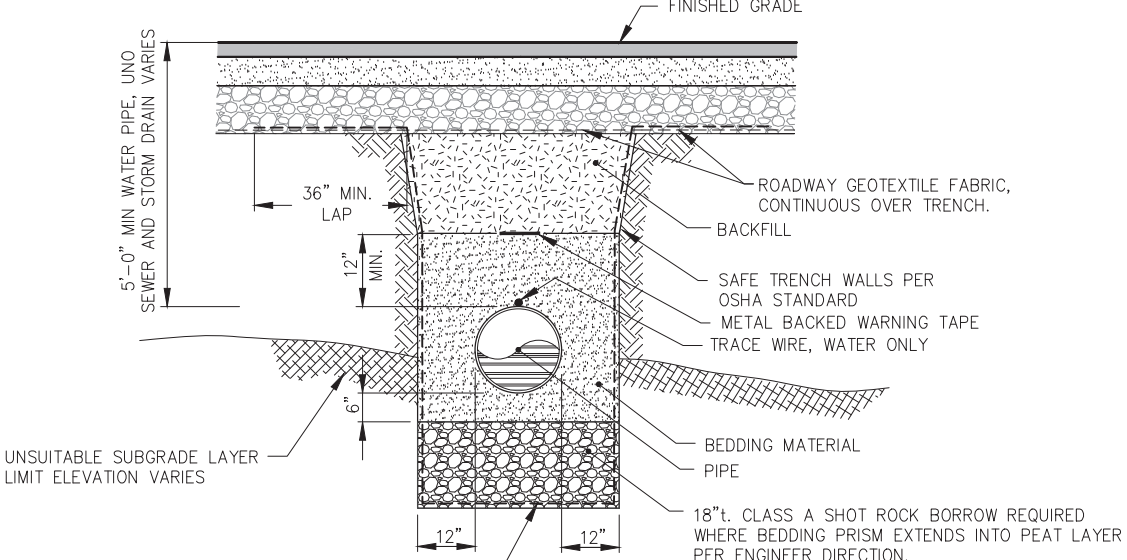
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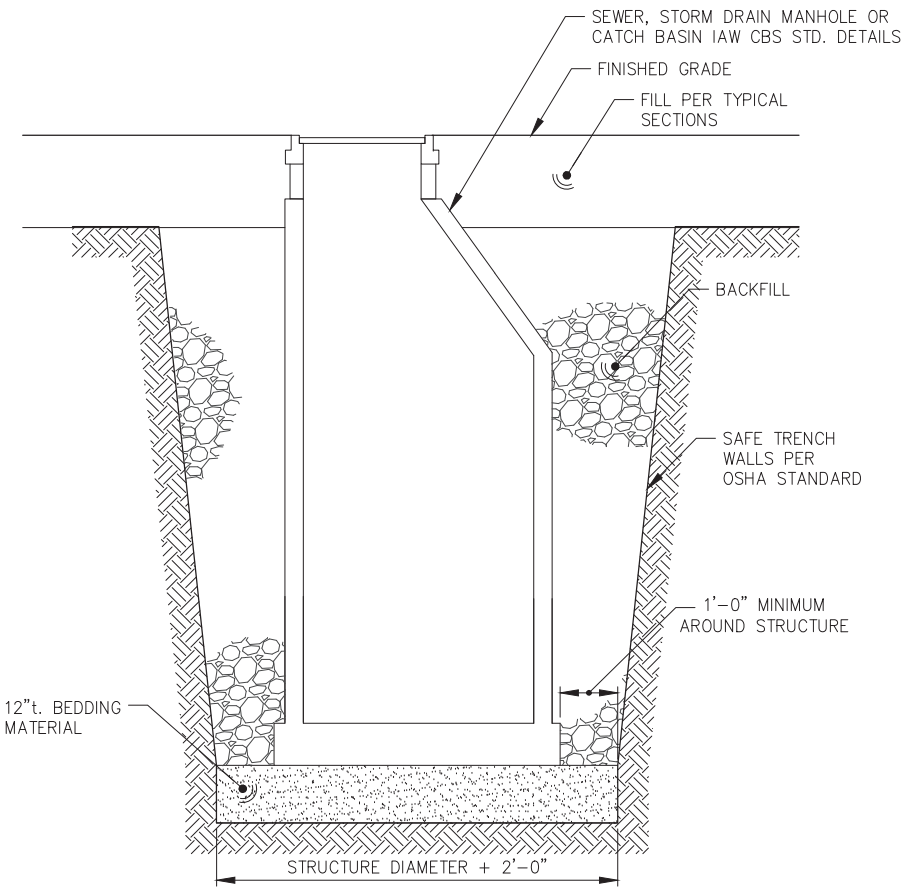
PIPE TRENCH DETAIL WITHOUT SUBGRADE REINFORCEMENT

- NOTES:**
1. DETAIL APPLIES TO ALL PIPE UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 2. PIPE INSULATION SHALL BE PLACED OVER PIPE IAW CBS STD DTL 70-8 AT ALL LOCATIONS WHERE DEPTH OF BURY MUST BE LESS THAN 4' AS DETERMINED AND DIRECTED BY THE ENGINEER.
 3. * BEDDING SHALL BE INSTALLED 18"t. ON ALL SIDES OF WATER PIPE WHERE CONTAMINATED SOIL OR WATER IS ENCOUNTERED.



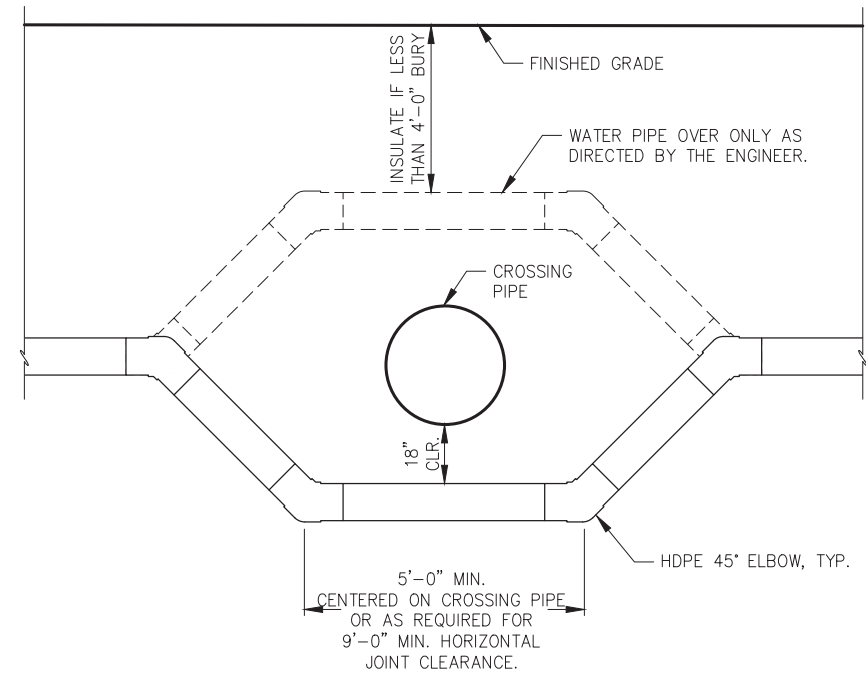
PIPE TRENCH DETAIL WITH SUBGRADE REINFORCEMENT

- NOTES:**
1. DETAIL SHALL ONLY BE UTILIZED AS DIRECTED BY THE ENGINEER.
 2. UNSUITABLE SUBGRADE IS KNOWN TO EXIST IN AREAS NOTED ON TYPICAL SECTIONS. CONTRACTOR SHALL ANTICIPATE APPLICATION OF THIS DETAIL IN THESE AREAS AND ELSEWHERE AS DIRECTED BY THE ENGINEER.
 3. GEOTEXTILE FABRIC SHALL BE LAPPED A MINIMUM OF 36" AS SHOWN.
 4. PIPE INSULATION SHALL BE PLACED OVER WATER PIPE IAW CBS STD DTL 70-8 AT ALL LOCATIONS WHERE DEPTH OF BURY MUST BE LESS THAN 5' AS DETERMINED AND DIRECTED BY THE ENGINEER.



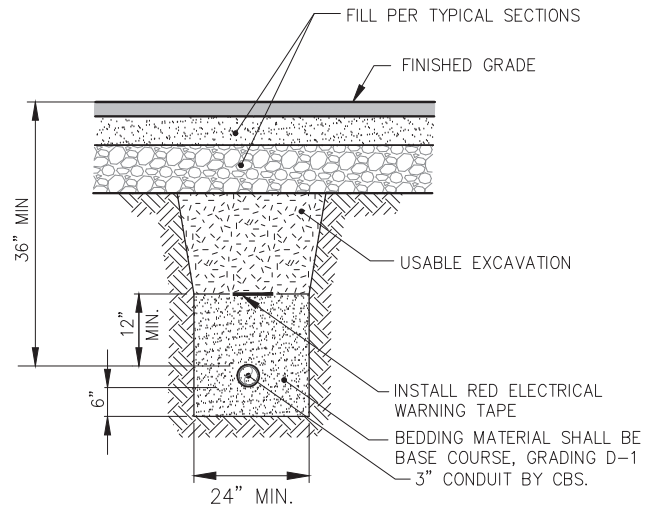
STRUCTURE SUPPORT DETAIL WITHOUT SUBGRADE REINFORCEMENT

- NOTES:**
1. DETAIL APPLIES TO ALL STRUCTURES UNLESS OTHERWISE DIRECTED BY THE ENGINEER.

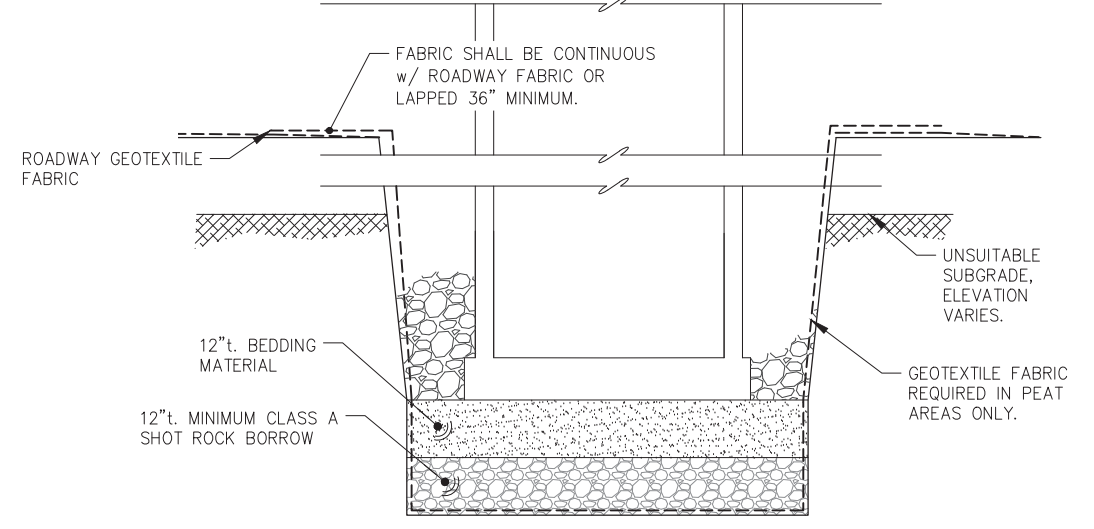


WATERLINE VERTICAL OFFSET AT STORM DRAIN

NOT TO SCALE

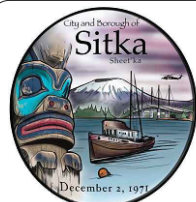


ELECTRIC TRENCH DETAIL



STRUCTURE SUPPORT DETAIL WITH SUBGRADE REINFORCEMENT

- NOTES:**
1. DETAIL SHALL ONLY BE UTILIZED AS DIRECTED BY THE ENGINEER.
 2. UNSUITABLE SUBGRADE IS KNOWN TO EXIST IN AREAS NOTED ON TYPICAL SECTIONS. CONTRACTOR SHALL ANTICIPATE APPLICATION OF THIS DETAIL IN THESE AREAS AND ELSEWHERE AS DIRECTED BY THE ENGINEER.
 3. DETAILS AND CALLOUTS NOT SHOWN SIMILAR TO STRUCTURE SUPPORT DETAIL WITHOUT SUBGRADE REINFORCEMENT OR CBS DETAIL 50-2 AS APPLICABLE.



City and Borough of Sitka
 DEPARTMENT OF PUBLIC WORKS
 100 LINCOLN STREET SITKA, ALASKA 99835
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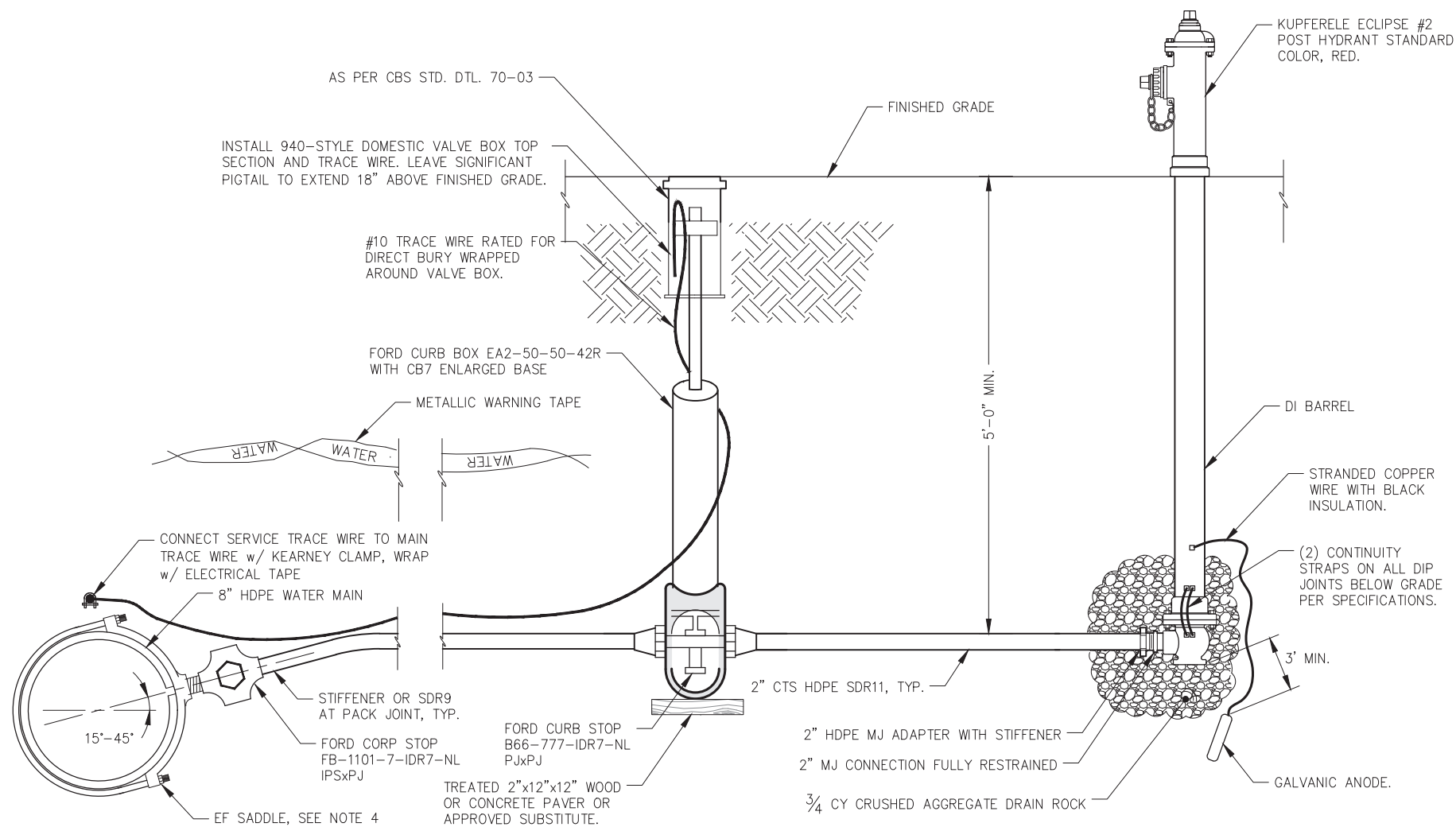
CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149

SHEET TITLE: **UTILITY DETAILS**

PND PROJECT #: 222100 C.A.N. NO.: AECC250

U13

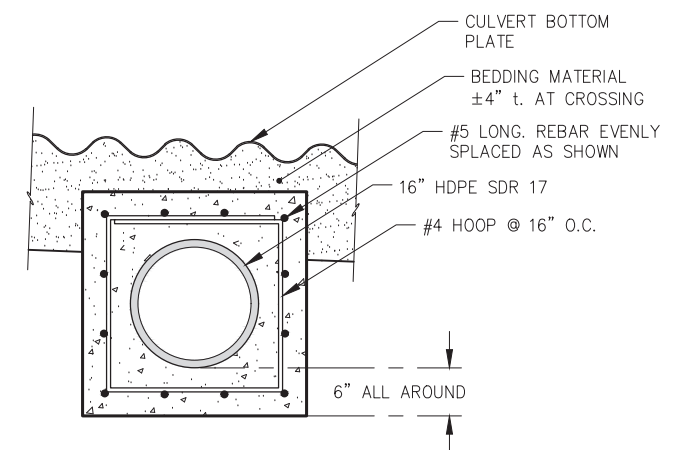
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**POST HYDRANT AND SERVICE CONNECTION
DETAIL TYPICAL OF TWO LOCATIONS**

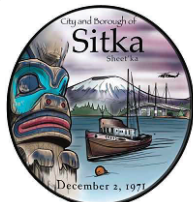
NOTES:

1. ROD TO BE ATTACHED TO CURB STOP WITH BRASS OR STAINLESS COTTER PIN.
2. SERVICE SHALL MAINTAIN 5' MINIMUM BURY UNLESS PROPERLY INSULATED AS DIRECTED BY THE ENGINEER.
3. LOCATE PER SITE PLAN.
4. EF SADDLE SHALL BE ELECTRO-FUSION TRANSITION CORP AS MFR'D BY CENTRAL PLASTICS. TRANSITION SHALL BE BRASS. COMPRESSION RING, IF USED, SHALL BE BRASS OR 316SS.



**A
U4 SEWER CONCRETE ENCASMENT**

NOTE: BED PER PIPE TRENCH DETAIL, EXCEPT AS NOTED.



City and Borough of Sitka

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**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE:

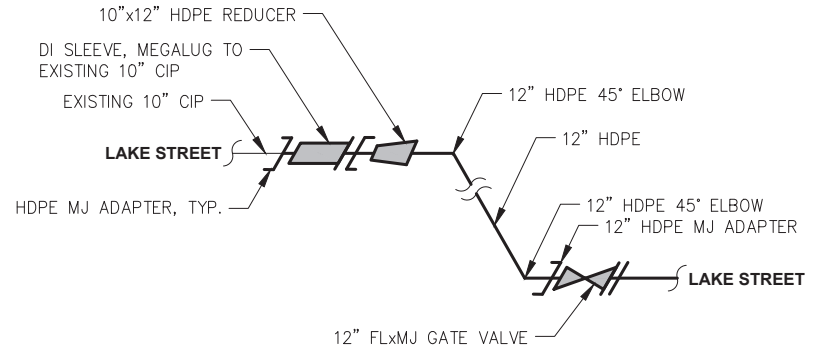
UTILITY DETAILS

U14

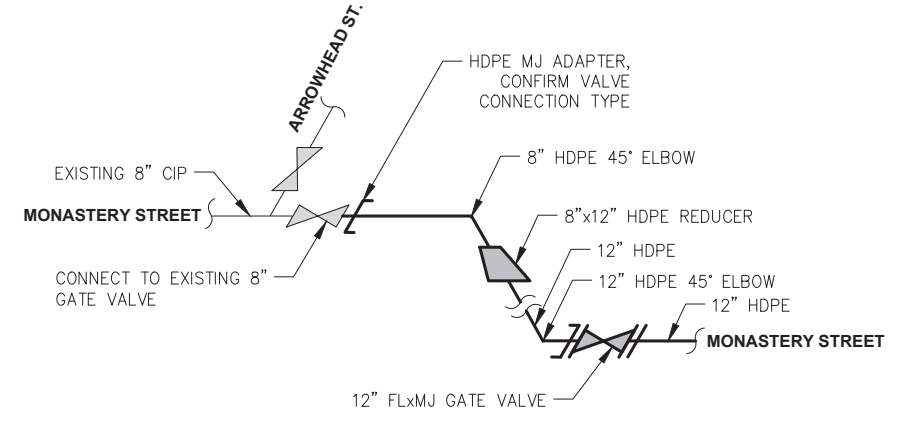
PND PROJECT #: 222100

C.A.N. NO.: AECC250

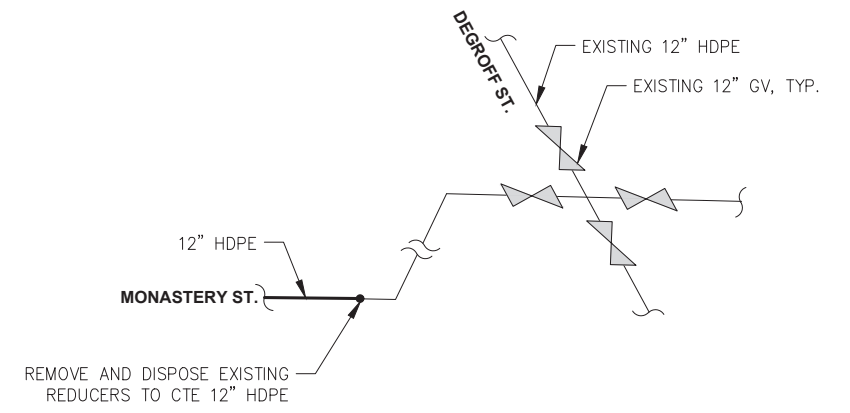
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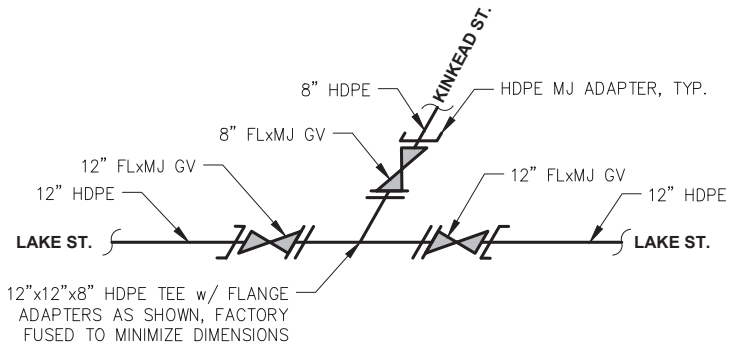
A WATER CONNECTION DETAIL
U2 BOP LAKE STREET



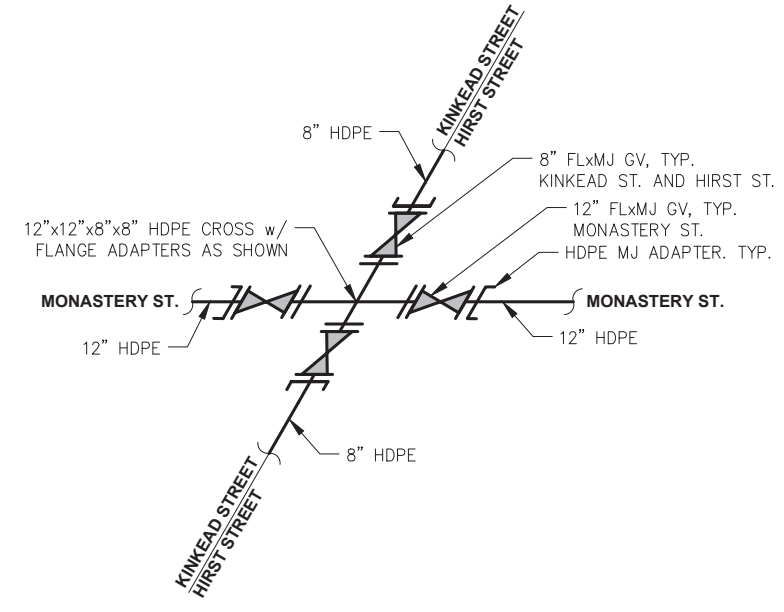
E WATER CONNECTION DETAIL
U5 BOP MONASTERY STREET



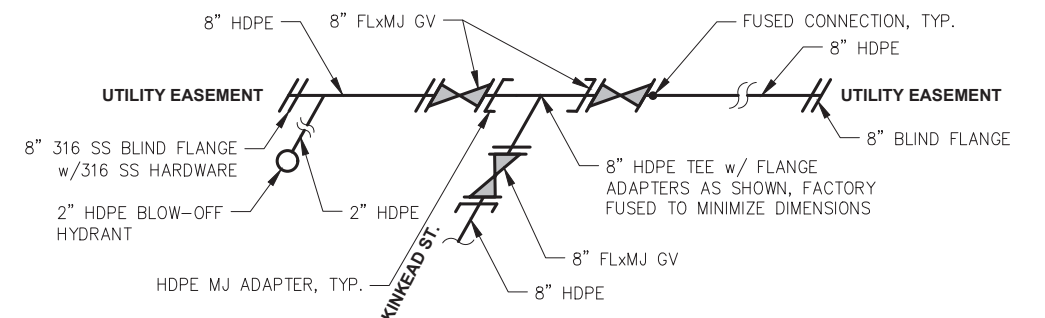
G WATER CONNECTION DETAIL
U7 MONASTERY STREET EOP AT DEGROFF STREET



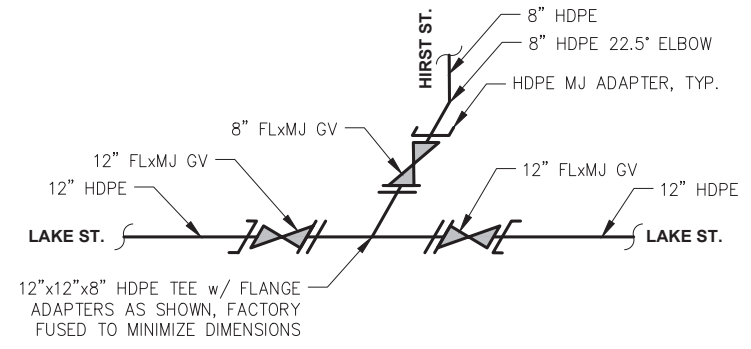
B WATER CONNECTION DETAIL
U2 LAKE STREET AND KINKEAD STREET



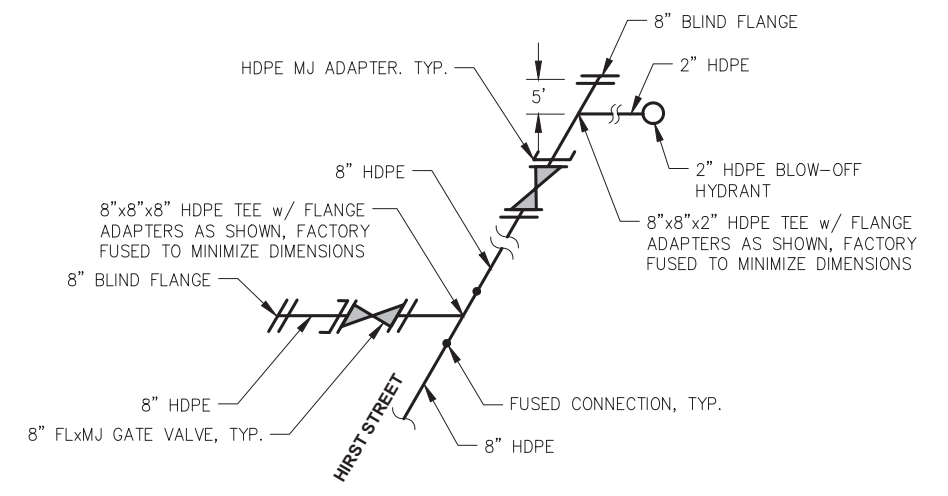
F WATER CONNECTION DETAIL
U6-U7 MONASTERY STREET AT KINKEAD STREET
(TYPICAL AT HIRST STREET)



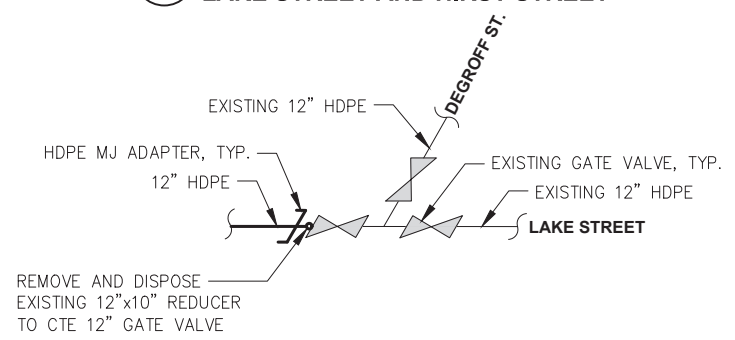
H WATER CONNECTION DETAIL
U9 KINKEAD STREET AT EOP



C WATER CONNECTION DETAIL
U4 LAKE STREET AND HIRST STREET



I WATER CONNECTION DETAIL
U11 HIRST STREET - EAST END

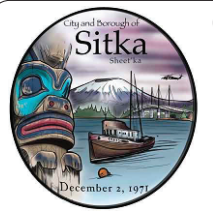


D WATER CONNECTION DETAIL
U4 LAKE STREET EOP AT DEGROFF STREET

LEGEND

- FLANGE CONNECTION
- MJ CONNECTION
- BUTT FUSED CONNECTIONS

NOTES:
1. HDPE TO HDPE CONNECTIONS SHALL BE BUTT FUSED UNO.



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**CITY AND BOROUGH OF SITKA, ALASKA
LAKE-HIRST AND MONASTERY-KINKEAD
UTILITY AND STREET IMPROVEMENTS
CBS PROJECT #2023-149**

SHEET TITLE: **UTILITY DETAILS** **U15**

PND PROJECT #: 222100 C.A.N. NO.: AECC250