

USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION

Seward, Alaska
SEPTEMBER 7, 2010

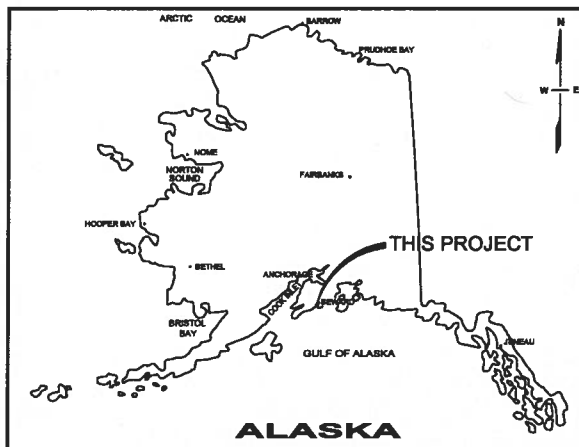
ISSUED FOR CONSTRUCTION



NO.	DESCRIPTION
G1.0	COVER SHEET & SHEET INDEX LEGEND, NOTES, DESIGN CRITERIA, AND ABBREVIATIONS
C1.0	EXISTING SITE CONDITIONS AND SURVEY CONTROL
C2.0	SITE AND UTILITY PLAN
C2.1	STORM DRAIN SD1, STA. 1+00.00 TO STA. 3+34.26; SD2 STA. 1+00.00 TO STA. 1+95.00 PLAN AND PROFILE
C2.2	WATER LINE WL1, STA. 1+00.00 TO STA. 6+10.00 PLAN AND PROFILE
C2.3	WATER LINE WL1, STA. 6+10.00 TO STA. 10+44.43 PLAN AND PROFILE
C2.4	WATER LINE WL1, STA. 10+44.43 TO STA. 12+49.67; WL2, STA. 1+00.00 TO STA. 1+56.80; WL3, STA. 1+00.00 TO STA. 1+53.80 PLAN AND PROFILE
C2.5	STORM DRAIN MANHOLE SECTION AND DETAILS
C2.6	WATER LINE DETAILS
C3.0	USCG SHORE SUPPORT BUILDING SITE AND GRADING PLAN
S1.0	USCG SHORE SUPPORT BUILDING FOUNDATION PLAN
S1.1	FOUNDATION CROSS SECTION AND DETAILS

Sheet Index

Vicinity Map



Location Map



CITY OF SEWARD
Owner

Project Number SEWD-SEWD-011-0001; SEWD-SEWD-012-0001

Project Engineer/Architect MICHAEL L. FOSTER & ASSOCIATES, INC.

Construction Manager CITY OF SEWARD

Final Design (Date) _____

Construction Period (From) _____ (To) _____

Record Documents (Date) _____



M L F A **Michael L. Foster & Associates, Inc.**
An Alaskan Owned and Operated Company
Architects • Engineers • Planners • Scientists
Surveyors • General Contracting

13135 Old Glenn Highway, Suite 200
Eagle River, Alaska 99577
Phone - 907-696-6200
Fax - 907-696-6202

Engineer

GENERAL LEGEND

EXISTING		PROPOSED		DESCRIPTION
PLAN	PROFILE	PLAN	PROFILE	
				BUILDING / BUILDING WITH SERVICE
				BRASS CAP BENCH MARK
				CULVERT / CMP
				DITCH, SWALE, OR SHORELINE
				ELECTRICAL TRANSFORMER
				ELECTRICAL UTILITY BOX
				FENCE
				FIRE HYDRANT
				FLOW DIRECTION
				FUEL OIL
				GAS
				GRAVEL DRIVE OR PAVEMENT
				GROUND CONTOUR MAJOR
				GROUND CONTOUR MINOR
				GUY WIRE
				LIGHT POLE
				OVERHEAD ELECTRIC
				OUTFALL
				POWER POLE
				PROPERTY LINE
				REBAR
				REBAR WITH PLASTIC CAP
				REBAR WITH ALUMINUM CAP
				RIGHT OF WAY
				SEWER LINE, BY OTHERS
				SEWER MANHOLE, BY OTHERS
				SEWER SERVICE
				SEWER SERVICE CONNECTION
				SIGN
				SPOT ELEVATION
				STORM DRAIN LINE
				STORM DRAIN LINE BUILT FROM ANOTHER SHEET
				STORM DRAIN LINE SHOWN ON WATER SHEET
				STORM DRAIN MANHOLE
				TELEPHONE UTILITY BOX
				TEST PIT
				UNDERGROUND ELECTRIC
				UNDERGROUND TELEPHONE
				WATER LINE (WITH GATE VALVE)
				WATER LINE BUILT FROM ANOTHER SHEET
				WATER LINE SHOWN ON SEWER SHEET
				WATER SERVICE

ABBREVIATIONS

A	ALASKA ADMINISTRATIVE CODE	H	HEAVY DUTY	ROW	RIGHT-OF-WAY
AB	ANCHOR BOLT	HD	HUB & TACK	S	SOUTH, SEWER
AC	ASBESTOS CEMENT PIPE	H & T	HIGH DENSITY POLYETHYLENE	SCH	SCHEDULE
ACP	ASPHALT CONCRETE PAVEMENT	HDPE	HEADER	SF	SQUARE FEET
AEA	AIR ENTRAINMENT ADMXTURE	HDR	HEIGHT	SL	SEWER LINE
ADJ	ADJUSTABLE	HSE	HEAT TRACE	SPEC	SPECIFICATION
AFF	ABOVE FINISH FLOOR	HT		SQ	SQUARE
AG	ABOVE GROUND	H/T		SS	STAINLESS STEEL, SEWER SERVICE
AL	ALUMINUM	I	INTERNATIONAL BUILDING CODE	STA	STATION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	ID	INSIDE DIAMETER, IDENTIFICATION	STD	STANDARD
AP	ANGLE POINT	INV	INVERT ELEVATION	SY	SQUARE YARD
API	AMERICAN PETROLEUM INSTITUTE	IP	IRON PIPE	SYM	SYMMETRICAL
APPROX	APPROXIMATE	INCL	INCLUDE (D) (ING)		
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	INSUL	INSULATE (D) (ION)		
ASTM	AMERICAN SOCIETY OF TESTING AND MATERIALS			T & B	TOP & BOTTOM
ATS	ALASKA TIDAL SURVEY	J	JUNCTION BOX	TBD	TO BE DETERMINED
AWW &	ALL WEATHER WOOD AND	JB		TBM	TEMPORARY BENCH MARK
AT		L	ANGLE	TEL	TELEPHONE
		LZ	ANGLE	TEMP	TEMPERATURE, TEMPORARY
B	BLIND FLANGE	LB (S)	POUND (S)	TH	TEST HOLE
BFV	BUTTERFLY VALVE	LG	LONGS	THD	THREAD
BLDG	BUILDING	LF	LINEAL FEET	THK	THICK
BOP	BOTTOM OF PIPE (INCLUDING INSULATION)	LL	LIVE LOAD	TOP	TOP OF PIPE
BTM, BOT	BOTTOM	LL	LOCATION	TOS	TOP OF STEEL
BTUH	BRITISH THERMAL UNIT HOUR	LOC		TRANS	TRANSVERSE
		M	MAXIMUM	TS	TUBE STEEL
C	CAST - IN - PLACE	MAX	MECHANICAL	TV	TELEVISION
CFR	CODE OF FEDERAL REGULATIONS	MECH	MANUFACTURE (R)	TYP	TYPICAL
CJ	CONTROL JOINT	MFR	MEAN HIGHER HIGH WATER	U	UNDERGROUND
C	CENTERLINE	MHW	MEAN HIGHER HIGH WATER	UG	UNDERGROUND ELECTRIC
CL	CLASS	MHHW	MEAN HIGHER HIGH WATER	UE	UNDERGROUND TELEPHONE
CLR	CLEAR, CLEARANCE	MI	MALLEABLE IRON	UMC	UNIFORM MECHANICAL CODE
CMP	CORRUGATED METAL PIPE	MIN	MICHAEL L. FOSTER & ASSOCIATES	UON	UNLESS OTHERWISE NOTED
CMU	CONCRETE MASONRY UNIT	MLFA	MEAN LOWER LOW WATER	UPC	UNIFORM PLUMBING CODE
CO	CLEANOUT	MLLW			
CONC	CONCRETE	MTL	MATERIAL	V	VALVE BOX
CONT	CONTINUOUS			VB	VERTICAL
COR	CORNER	N	NORTH, NORTHING	VTA	VENT TO ATMOSPHERE
CP	CONTROL POINT	NA	NOT APPLICABLE	W	WEST
CPP	CORRUGATED POLYETHYLENE PIPE	NAD	NORTH AMERICAN DATUM	W/	WITH
CTR	CENTER	NEC	NATIONAL ELECTRICAL CODE	WD	WOOD
CY	CUBIC YARD	NFS	NON-FROST SUSCEPTIBLE	WELDMT	WELDMENT
		N.I.C.	NOT IN CONTRACT	WK	WORK, WORK POINT
D	PENNY	NO, #	NUMBER	WL	WATER LINE
DBL	DOUBLE	NOM	NOMINAL	WP	WATER PEDESTAL
DIA, Ø	DIAMETER	NPT	NATIONAL PIPE THREAD	WS	WATER SERVICE
DIM	DIMENSION	NS	NEAR SIDE	WV	WATER VALVE
DIP	DUCTILE IRON PIPE	NTS	NOT TO SCALE	WOG	WATER-OIL-GAS
DISC	DISCONNECT			WWF	WELDED WIRE FABRIC
DN	DOWN	O	OVERBURDEN		
DTL	DETAIL	OB	ON CENTER	X	TRANSFER
#	DEGREE	OD	OUTSIDE DIAMETER	XFER	CROSSING
		OG	ORIGINAL GROUND	XING	
E	EAST, EASTING	OHE	OVERHEAD ELECTRICAL		
EA	EACH	OWS	OIL - WATER SEPARATOR		
EJ	EXPANSION JOINT	OPP	OPPOSITE		
EL/ELEV	ELEVATION	P	PIPE		
EOP	END OF PROJECT	PC	POINT OF CURVATURE, PIECE		
EPS	EXPANDED POLYSTYRENE	PCC	PRECAST CONCRETE		
EQ	EQUAL	PED	PEDESTAL		
EQUIP	EQUIPMENT	PER	PERIMETER		
EST	ESTIMATE	PERF	PERFORATE (D)		
EW	EACH WAY	PI	POINT OF INTERSECTION		
EXC	EXCAVATE	PL, PL	PROPERTY LINE, PLATE		
EXIST	EXISTING	PLWD	PLYWOOD		
		PPM	PARTS PER MILLION		
F	FAHRENHEIT	PROJ	PROJECT		
FAB	FABRICATED	PSI	POUNDS PER SQUARE INCH		
FBG	FIBERGLASS	PSIG	POUNDS PER SQUARE INCH GAUGE		
FF	FINISHED FLOOR	FT	POINT OF TANGENCY		
FH	FIRE HYDRANT	PVC	POLY VINYL CHLORIDE		
FIN	FINISH (ED)				
FL	FLOWLINE	Q	QUANTITY		
FND	FOUNDATION	R	RADIUS		
FT	FEET	REF	REFERENCE		
FTG	FOOTING	REINF	REINFORCEMENT		
FD	FLOOR DRAIN	REQ'D	REQUIRED		
FO	FIBER OPTIC, FUEL OIL	RET	RETAIN (ING)		
FS	FAR SIDE	RF	RAISED FACE		
		RIM	RIM ELEVATION		
G	GAUGE	RO	ROUGH OPENING		
GAL	GALLON				
GALV	GALVANIZED				
GB	GRADE BREAK				
GND	GROUND				
GPM	GALLONS PER MINUTE				
GV	GATE VALVE				

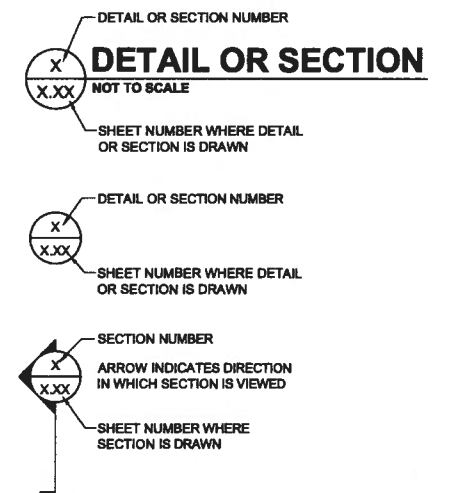
DESIGN CRITERIA

GENERAL	
• SMALL BOAT HARBOR ACCESS SHALL REMAIN OPERATIONAL DURING CONSTRUCTION	
• CODES	
INTERNATIONAL BUILDING CODE	2008 EDITION
INTERNATIONAL MECHANICAL CODE	2008 EDITION
UNIFORM PLUMBING CODE	2008 EDITION
NATIONAL ELECTRICAL CODE (NFPA 70-2006)	2008 EDITION
• REGULATIONS/LAWS	
AMERICANS WITH DISABILITY ACT	
ADEC 18 AAC 70 WATER QUALITY STANDARDS	
ADEC 16 AAC 72 WASTEWATER DISPOSAL	
ADEC 16 AAC 80 DRINKING WATER	
ENVIRONMENTAL	
• MEAN ANNUAL TEMPERATURE (WRCC, 2003)	38.8°F
• MEAN MINIMUM JANUARY TEMPERATURE (WRCC, 2003)	20.4°F
• MEAN ANNUAL PRECIPITATION (WRCC, 2003)	69.8 INCHES
• MINIMUM BASIC WIND SPEED (ICC, 2006)	130 MILES PER HOUR
• GROUND SNOW LOAD (ICC, 2006)	70 POUNDS PER SQUARE FOOT
• FREEZING INDEX	900°F-DAYS
• DESIGN FREEZING INDEX	1,600°F-DAYS
• SEISMIC DESIGN CATEGORY FOR SEISMIC GROUP I (ICC, 2006)	D
TIDAL INFORMATION	
HIGHEST OBSERVED WATER LEVEL *	15.70 FEET
MEAN HIGHER HIGH WATER *	10.82 FEET
MEAN HIGH WATER *	9.71 FEET
MEAN SEA LEVEL *	5.56 FEET
MEAN TIDE LEVEL *	5.56 FEET
MEAN LOW WATER *	1.38 FEET
MEAN LOWER LOW WATER *	0.00 FEET
LOWEST OBSERVED WATER LEVEL *	-5.56 FEET
* NOAA, U.S. DEPT. OF COMMERCE, STATION ID: 9455080, SEWARD RESURRECTION BAY, ALASKA EPOCH 1983 - 2001	

NOTES

- INSTALL TEMPORARY DEVICES TO PROHIBIT SILT LADEN DEWATERING EFFLUENT AND OTHER CONSTRUCTION RUNOFF FROM ENTERING ADJACENT STREAMS OR WATER BODIES.
- ALLOW USER ACCESS TO THE SMALL BOAT HARBOR AT ALL TIMES.
- PROPERTY DISTURBED DURING CONSTRUCTION MUST BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION.
- EXISTING UTILITIES AND DRAIN PIPE LOCATIONS MAY VARY FROM THOSE SHOWN. DEPTH OF EXISTING PIPES SHOWN ON ELEVATIONS ARE ASSUMED.
- GRADING AND ALIGNMENT OF PIPE, STRUCTURES AND FINAL SURFACING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS. GRADE ALL IMPROVEMENTS WITH POSITIVE DRAINAGE AWAY FROM STRUCTURES.
- PROPERTY LINE LOCATIONS USED IN THESE DRAWINGS ARE DERIVED FROM REFERENCE SURVEY: TOPOGRAPHIC SURVEY OF LOT 4A BLOCK 2 MARINA SUBDIVISION, BLOCK 2 REPLAT AND PORTIONS OF ATS 174 DATED 07/27/2010 BY CLINE AND ASSOCIATES.

DETAIL AND SECTION DESIGNATIONS EXAMPLE



REFERENCES

TITLE

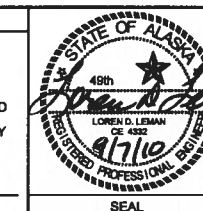
REVISIONS

NO.	BY	DATE	DESCRIPTION

RECORD DRAWING CERTIFICATE

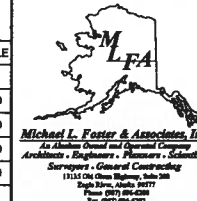
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME	DATE



DRAWING INFORMATION

DRAWING SCALE:	NOT TO SCALE	
	INIT.	DATE
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	G1.0_GENERAL LEGEND.dwg	

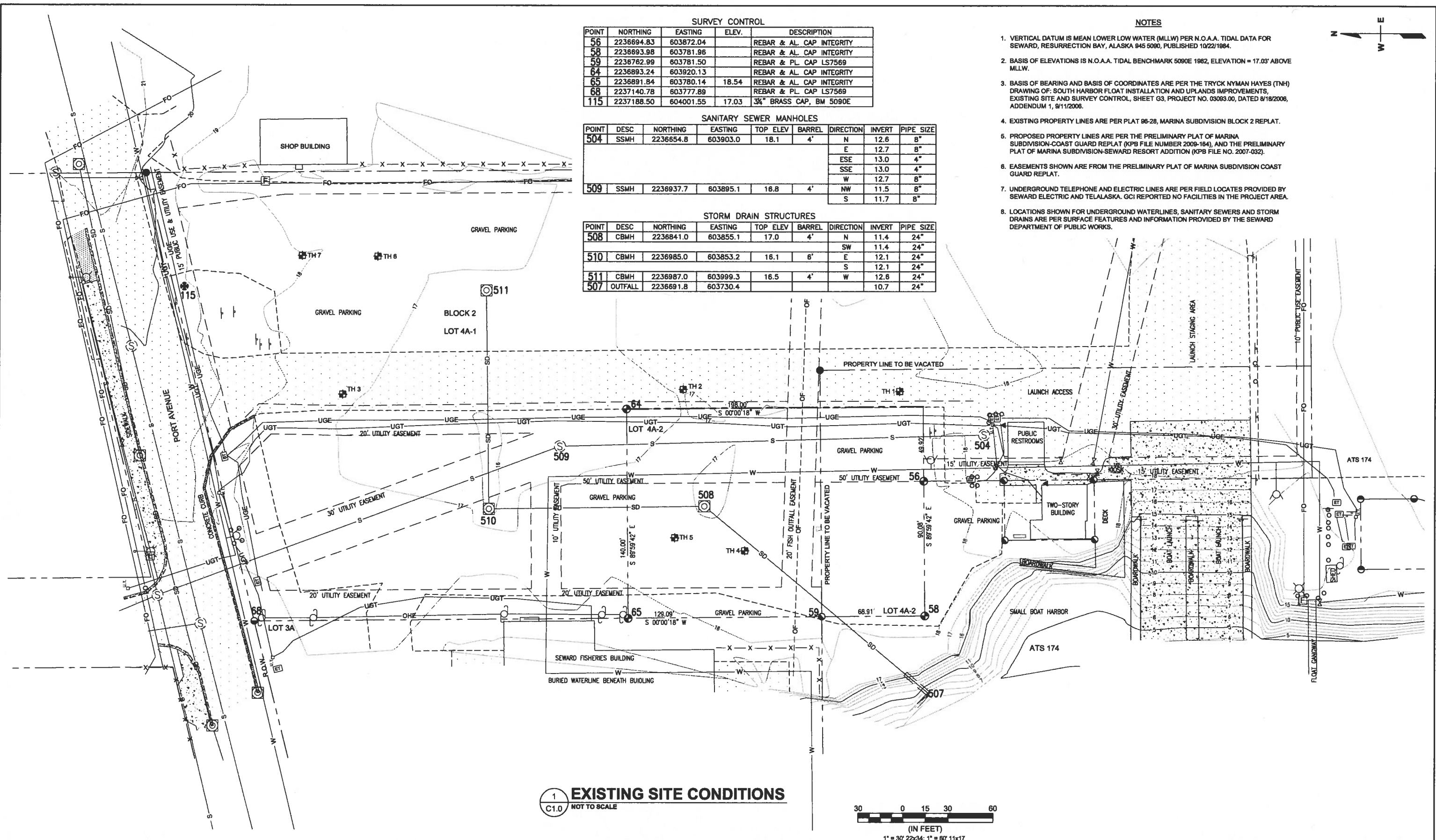


USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION CITY OF SEWARD, ALASKA

LEGEND, NOTES, DESIGN CRITERIA, AND ABBREVIATIONS

DATE: 09/03/2010
JOB NO. SEWD-SEWD-011-0001

REVISION
DRAWING NO. G1.0



SURVEY CONTROL

POINT	NORTHING	EASTING	ELEV.	DESCRIPTION
56	2236694.83	603872.04		REBAR & AL. CAP INTEGRITY
58	2236693.98	603781.96		REBAR & AL. CAP INTEGRITY
59	2236762.99	603781.50		REBAR & PL. CAP LS7569
64	2236893.24	603920.13		REBAR & AL. CAP INTEGRITY
65	2236891.84	603780.14	18.54	REBAR & AL. CAP INTEGRITY
68	2237140.78	603777.89		REBAR & PL. CAP LS7569
115	2237188.50	604001.55	17.03	3/4" BRASS CAP, BM 5090E

SANITARY SEWER MANHOLES

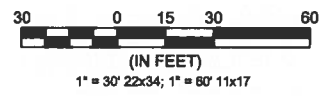
POINT	DESC	NORTHING	EASTING	TOP ELEV	BARREL	DIRECTION	INVERT	PIPE SIZE
504	SSMH	2236654.8	603903.0	18.1	4'	N	12.6	8"
						E	12.7	8"
						ESE	13.0	4"
						SSE	13.0	4"
509	SSMH	2236937.7	603895.1	16.8	4'	NW	11.5	8"
						S	11.7	8"

STORM DRAIN STRUCTURES

POINT	DESC	NORTHING	EASTING	TOP ELEV	BARREL	DIRECTION	INVERT	PIPE SIZE
508	CBMH	2236841.0	603855.1	17.0	4'	N	11.4	24"
						SW	11.4	24"
510	CBMH	2236985.0	603853.2	16.1	6'	E	12.1	24"
511	CBMH	2236987.0	603999.3	16.5	4'	S	12.1	24"
507	OUTFALL	2236691.8	603730.4			W	10.7	24"

- NOTES**
- VERTICAL DATUM IS MEAN LOWER LOW WATER (MLLW) PER N.O.A.A. TIDAL DATA FOR SEWARD, RESURRECTION BAY, ALASKA 845 5090, PUBLISHED 10/22/1984.
 - BASIS OF ELEVATIONS IS N.O.A.A. TIDAL BENCHMARK 5090E 1982, ELEVATION = 17.03' ABOVE MLLW.
 - BASIS OF BEARING AND BASIS OF COORDINATES ARE PER THE TRYCK NYMAN HAYES (TNH) DRAWING OF: SOUTH HARBOR FLOAT INSTALLATION AND UPLANDS IMPROVEMENTS, EXISTING SITE AND SURVEY CONTROL, SHEET G3, PROJECT NO. 03063.00, DATED 8/18/2006, ADDENDUM 1, 9/11/2006.
 - EXISTING PROPERTY LINES ARE PER PLAT 96-28, MARINA SUBDIVISION BLOCK 2 REPLAT.
 - PROPOSED PROPERTY LINES ARE PER THE PRELIMINARY PLAT OF MARINA SUBDIVISION-COAST GUARD REPLAT (KPB FILE NUMBER 2009-184), AND THE PRELIMINARY PLAT OF MARINA SUBDIVISION-SEWARD RESORT ADDITION (KPB FILE NO. 2007-032).
 - EASEMENTS SHOWN ARE FROM THE PRELIMINARY PLAT OF MARINA SUBDIVISION COAST GUARD REPLAT.
 - UNDERGROUND TELEPHONE AND ELECTRIC LINES ARE PER FIELD LOCATES PROVIDED BY SEWARD ELECTRIC AND TELALASKA. GCI REPORTED NO FACILITIES IN THE PROJECT AREA.
 - LOCATIONS SHOWN FOR UNDERGROUND WATERLINES, SANITARY SEWERS AND STORM DRAINS ARE PER SURFACE FEATURES AND INFORMATION PROVIDED BY THE SEWARD DEPARTMENT OF PUBLIC WORKS.

1 EXISTING SITE CONDITIONS
C1.0 NOT TO SCALE



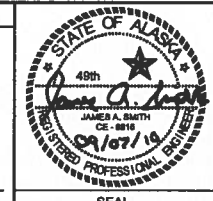
REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



RECORD DRAWING CERTIFICATE

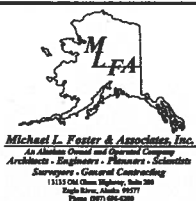
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME _____ DATE _____

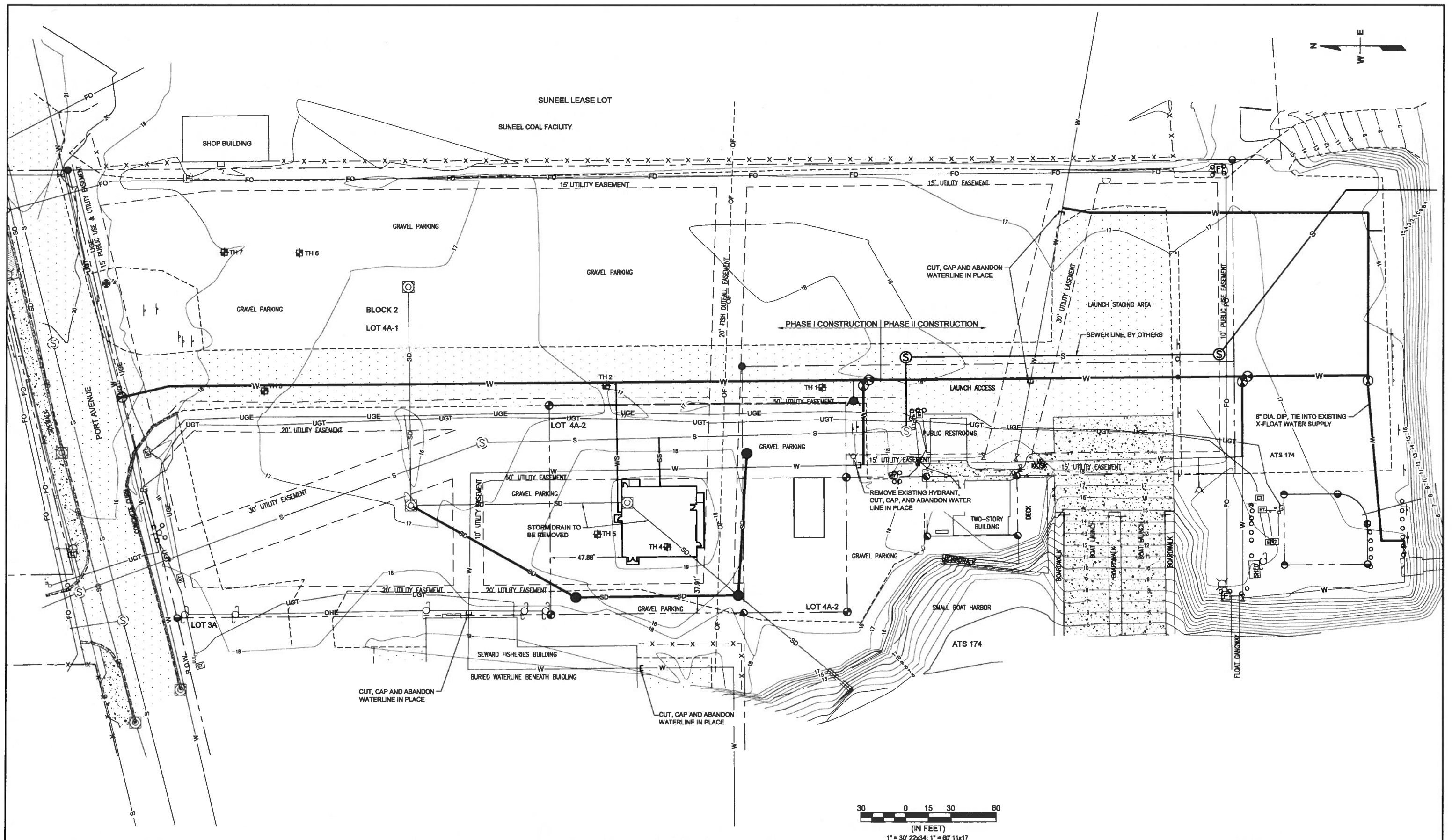


DRAWING INFORMATION

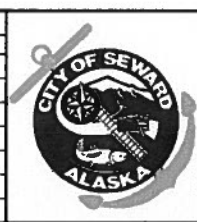
DRAWING SCALE:	22x34: 1"=30', 11x17: 1"=60'	
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	C1.0_EX-SITE PLAN.dwg	



USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION CITY OF SEWARD, ALASKA	DATE: 08/24/2010
	JOB NO. SEWD-SEWD-011-0001
	REVISION
EXISTING SITE CONDITIONS AND SURVEY CONTROL	DRAWING NO. C1.0



REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



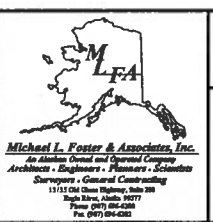
RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME _____ DATE _____



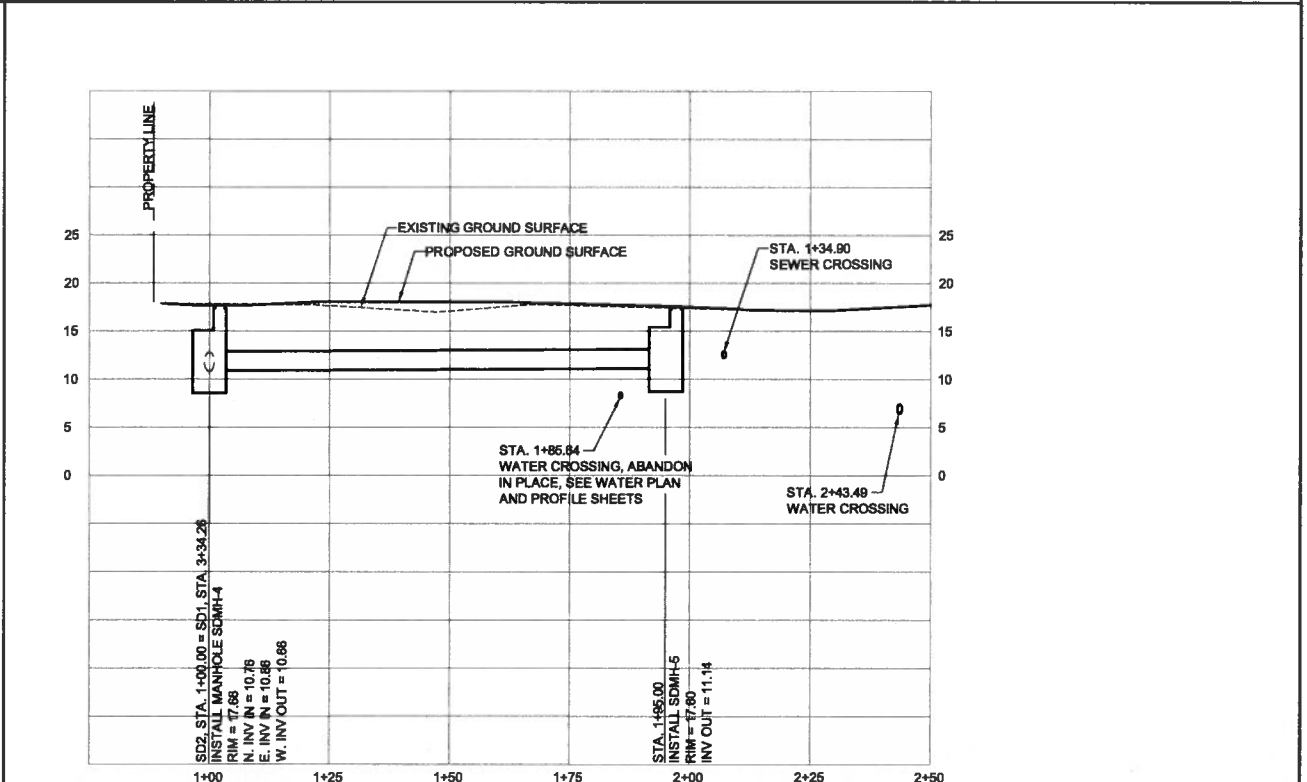
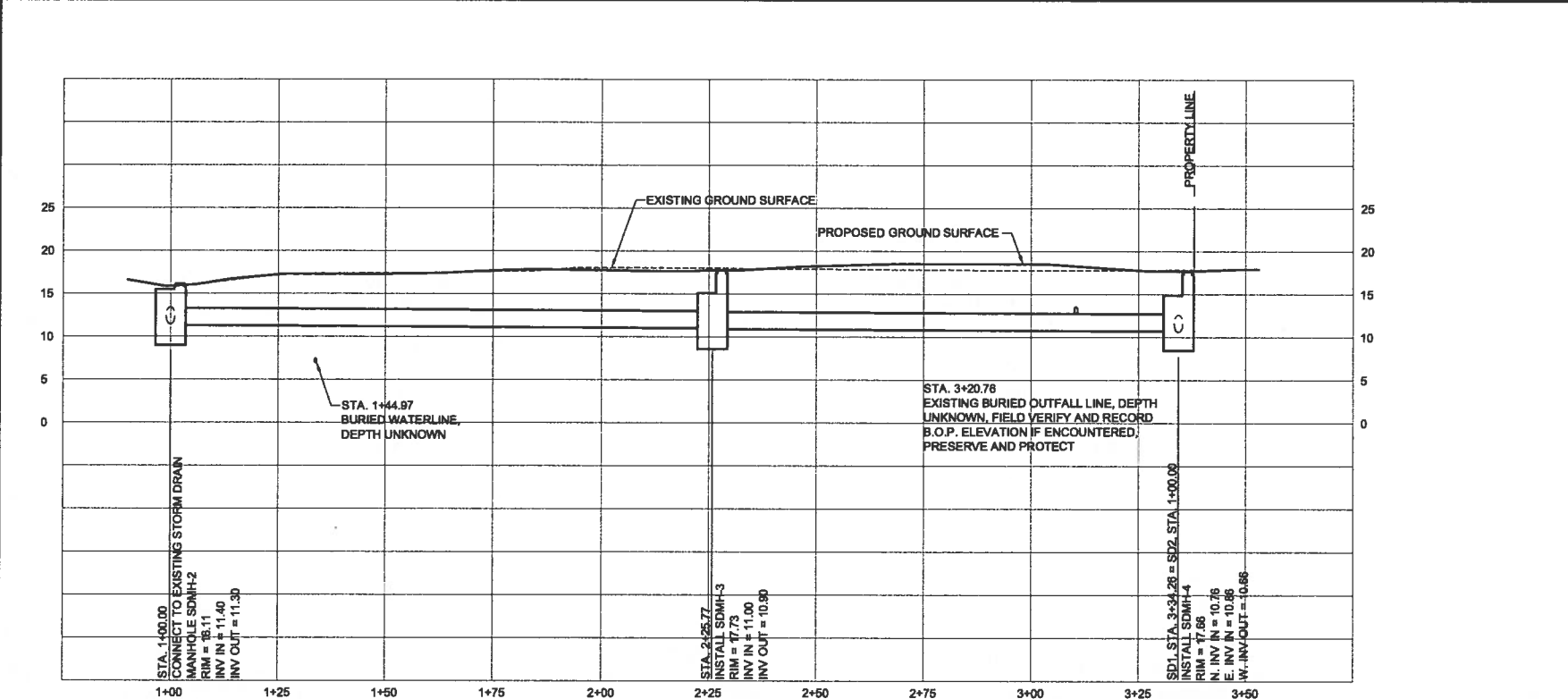
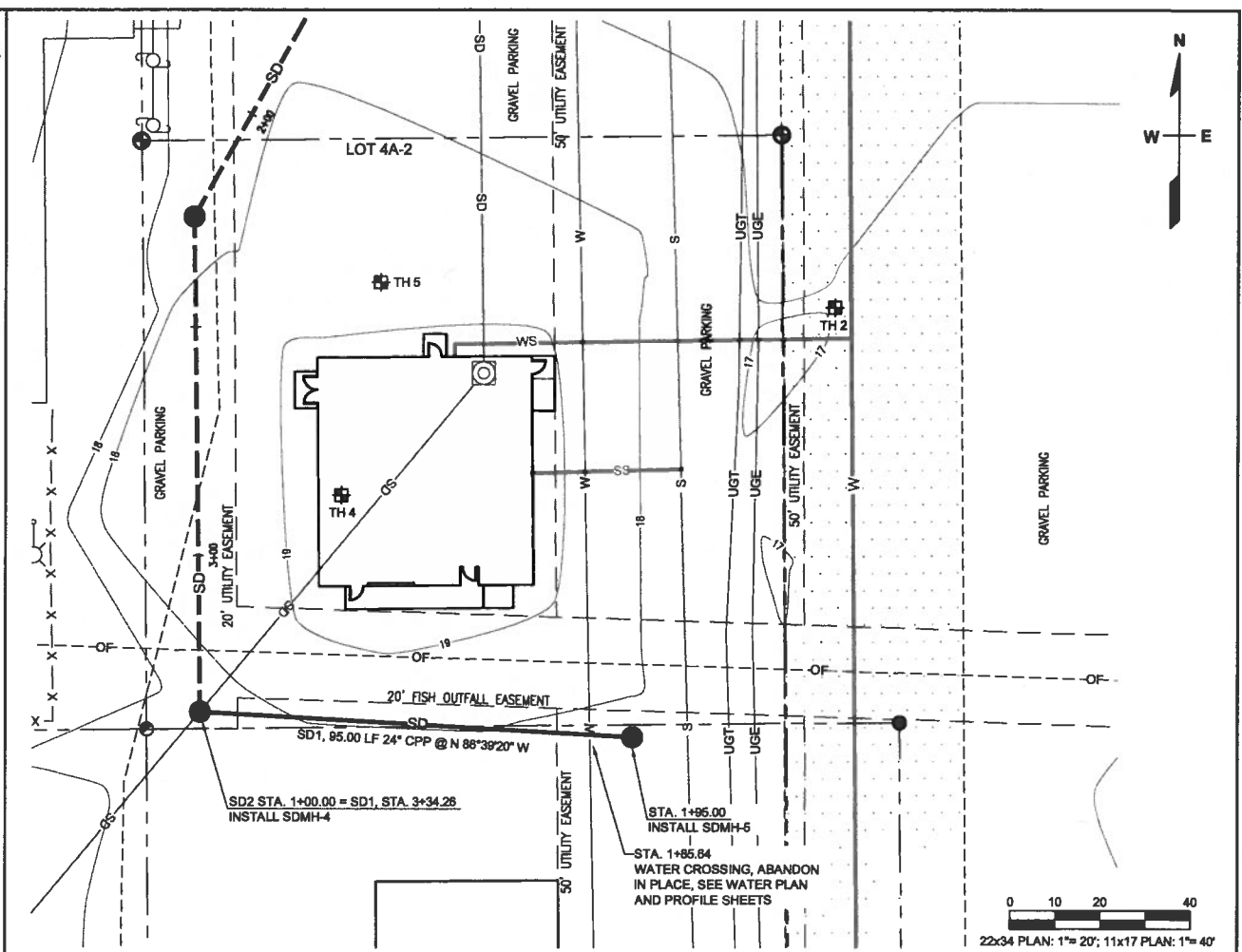
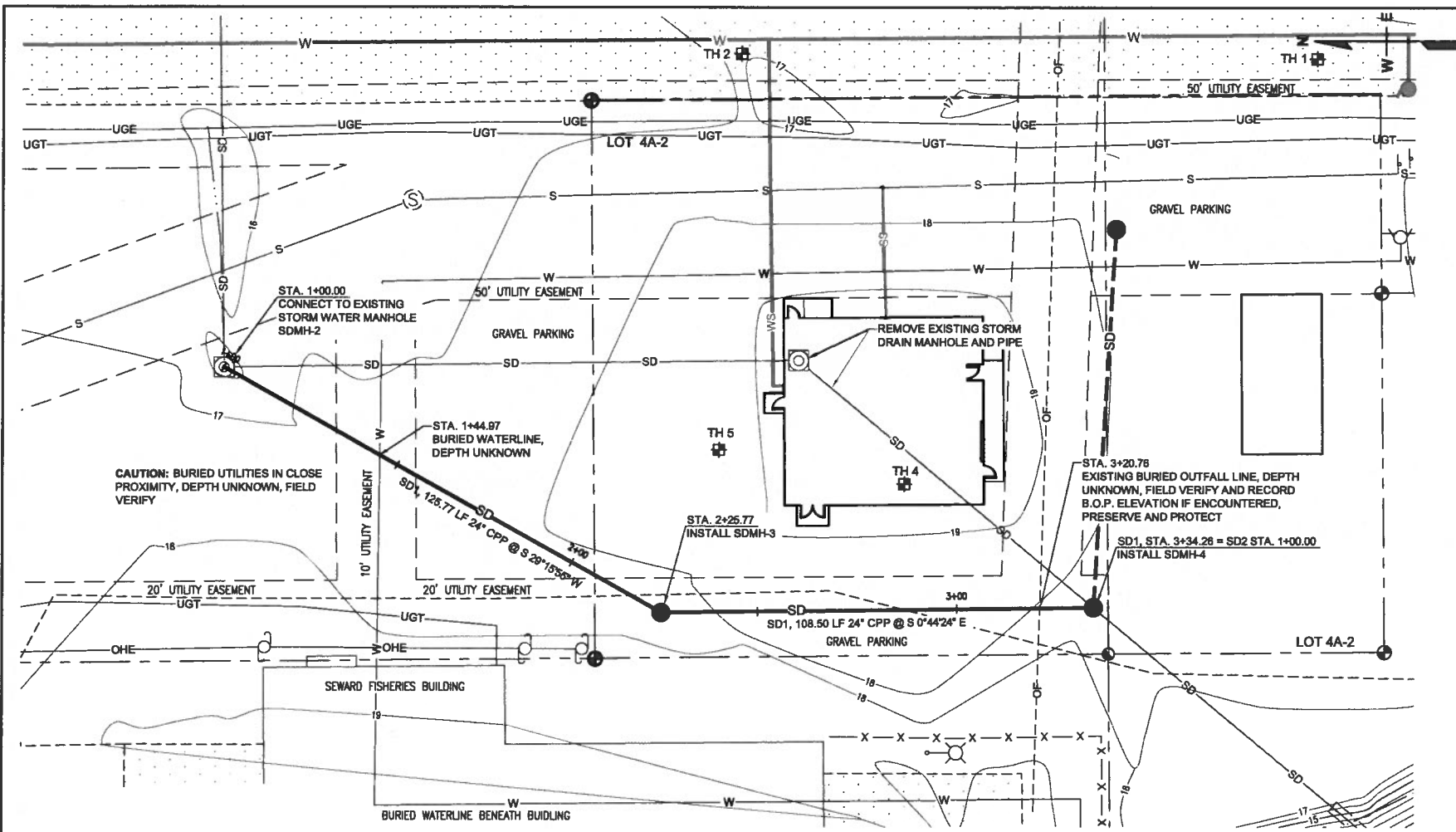
DRAWING INFORMATION			
DRAWING SCALE:	22x34: 1"=30'; 11x17: 1"=60'	INIT.	DATE
DESIGNED BY:	JAS	SEPTEMBER 2010	
DRAWN BY:	AM	SEPTEMBER 2010	
CHECKED BY:	JAS	SEPTEMBER 2010	
APPROVED BY:	JAS	SEPTEMBER 2010	
FILE:	C2.0_PRO-SITE PLAN.dwg		



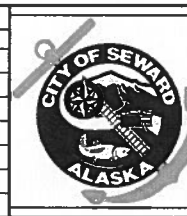
USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION
CITY OF SEWARD, ALASKA

SITE AND UTILITY PLAN

DATE:	08/07/2010
JOB NO.:	SEWD-SEWD-011-0001
REVISION:	
DRAWING NO.:	C2.0



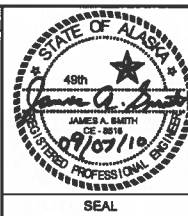
REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME _____ DATE _____



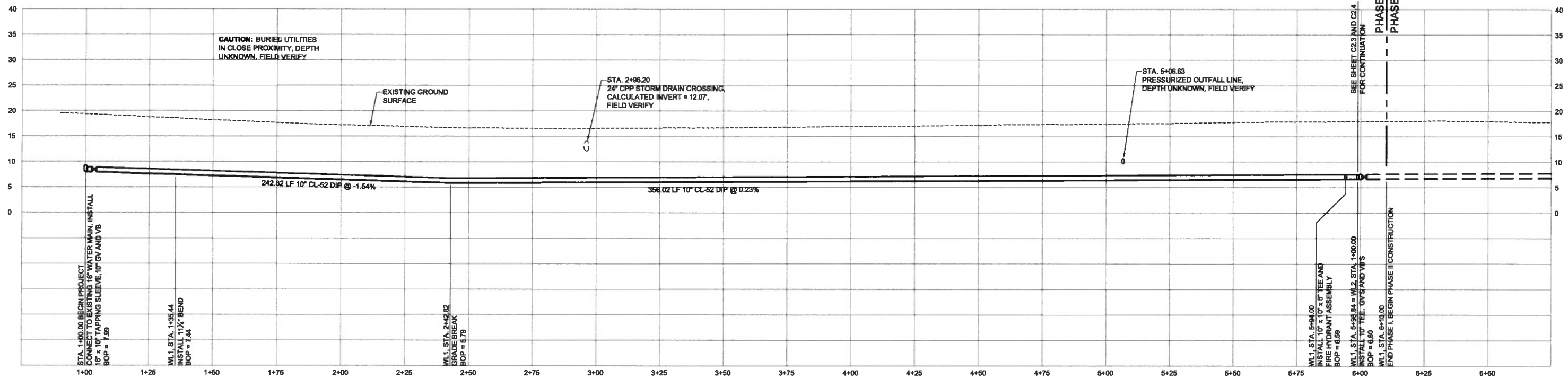
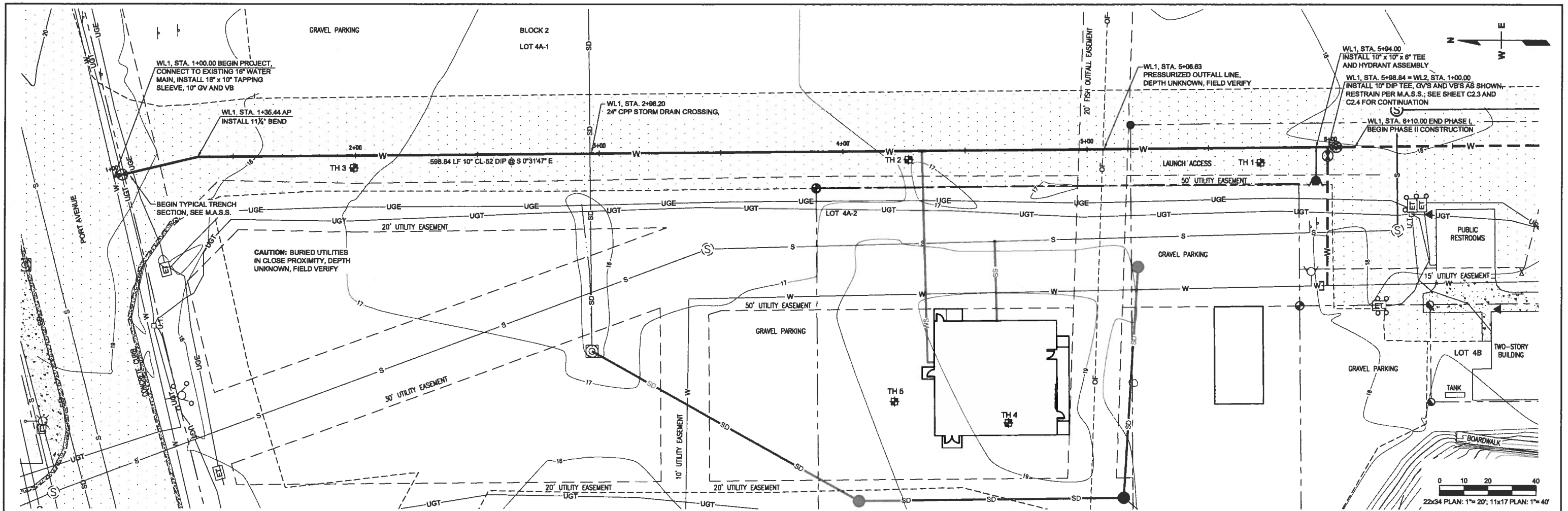
DRAWING INFORMATION		
DRAWING SCALE:	22x34: 1"=10'; 11x17: 1"=20'	
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	C2_1_SD P&P.dwg	



USCG FOUNDATION & SITE UTILITIES,
MARINA SUBDIVISION
CITY OF SEWARD, ALASKA

STORM DRAIN SD1, STA. 1+00.00 TO STA. 3+34.26; SD2, STA. 1+00.00 TO STA. 1+95.00 PLAN AND PROFILE

DATE:	09/07/2010
JOB NO.:	SEWD-SEWD-012-0001
REVISION:	
DRAWING NO.:	C2.1



REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION

RECORD DRAWING CERTIFICATE

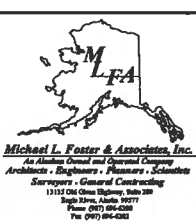
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME _____ DATE _____

DRAWING INFORMATION

DRAWING SCALE: 22x34 PLAN: 1"= 20'; HORIZ: 1"= 20'; VERT: 1"= 10'

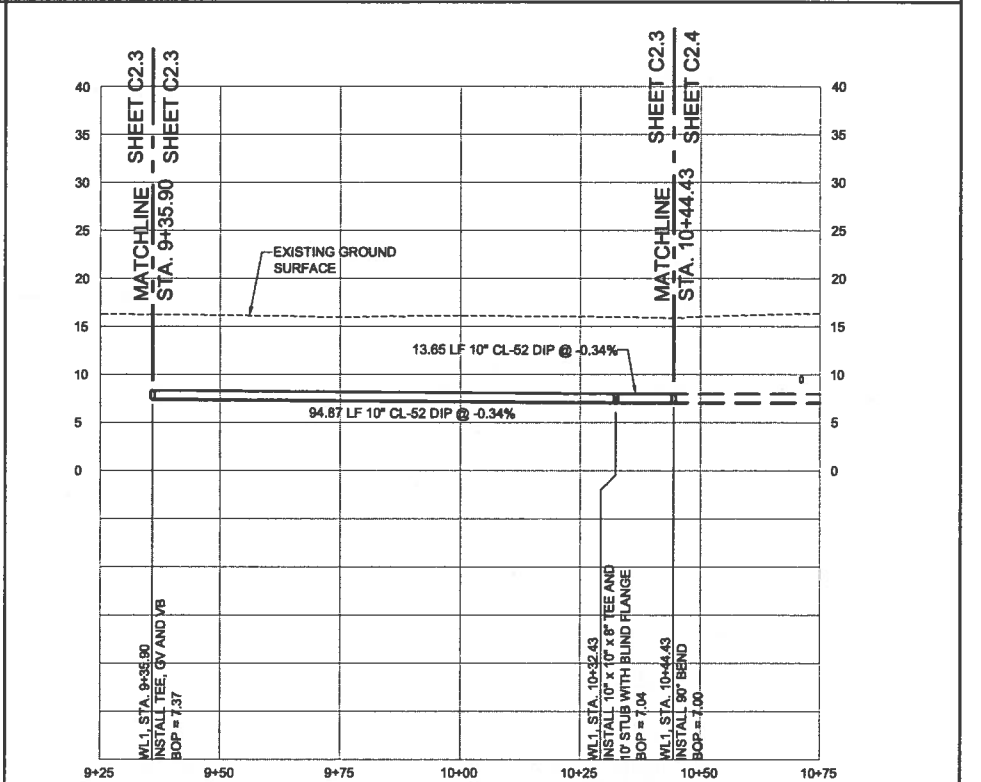
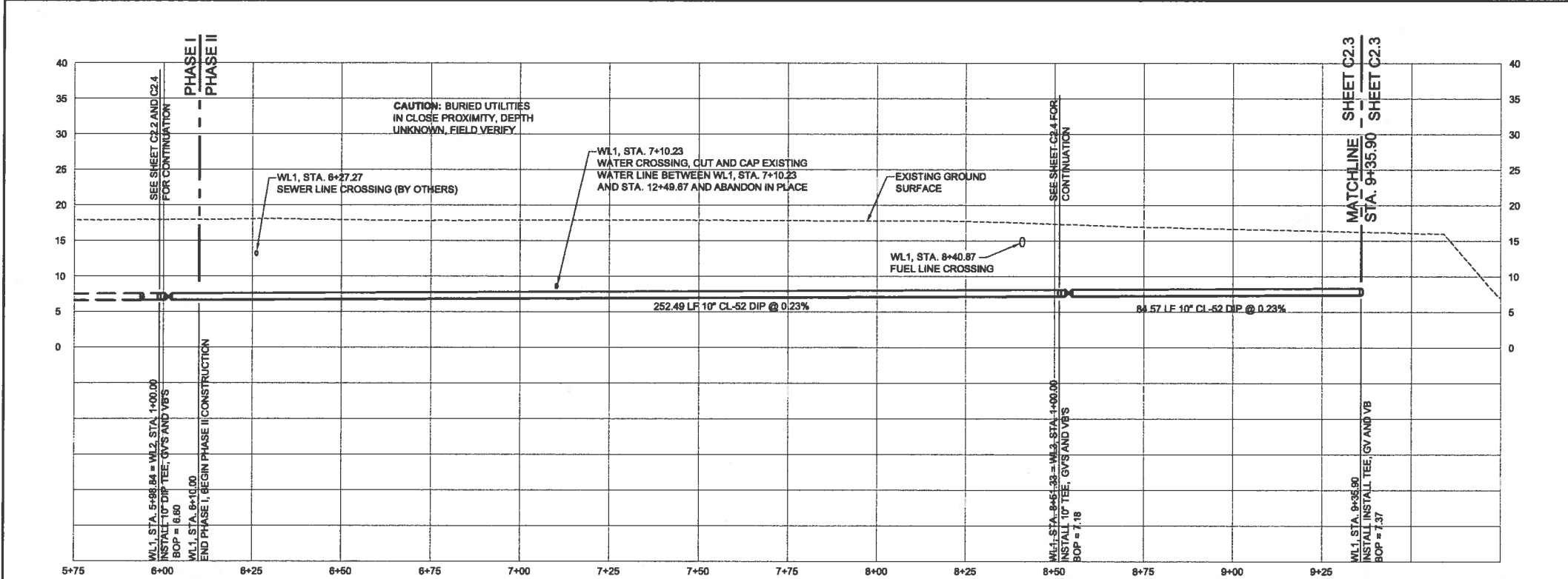
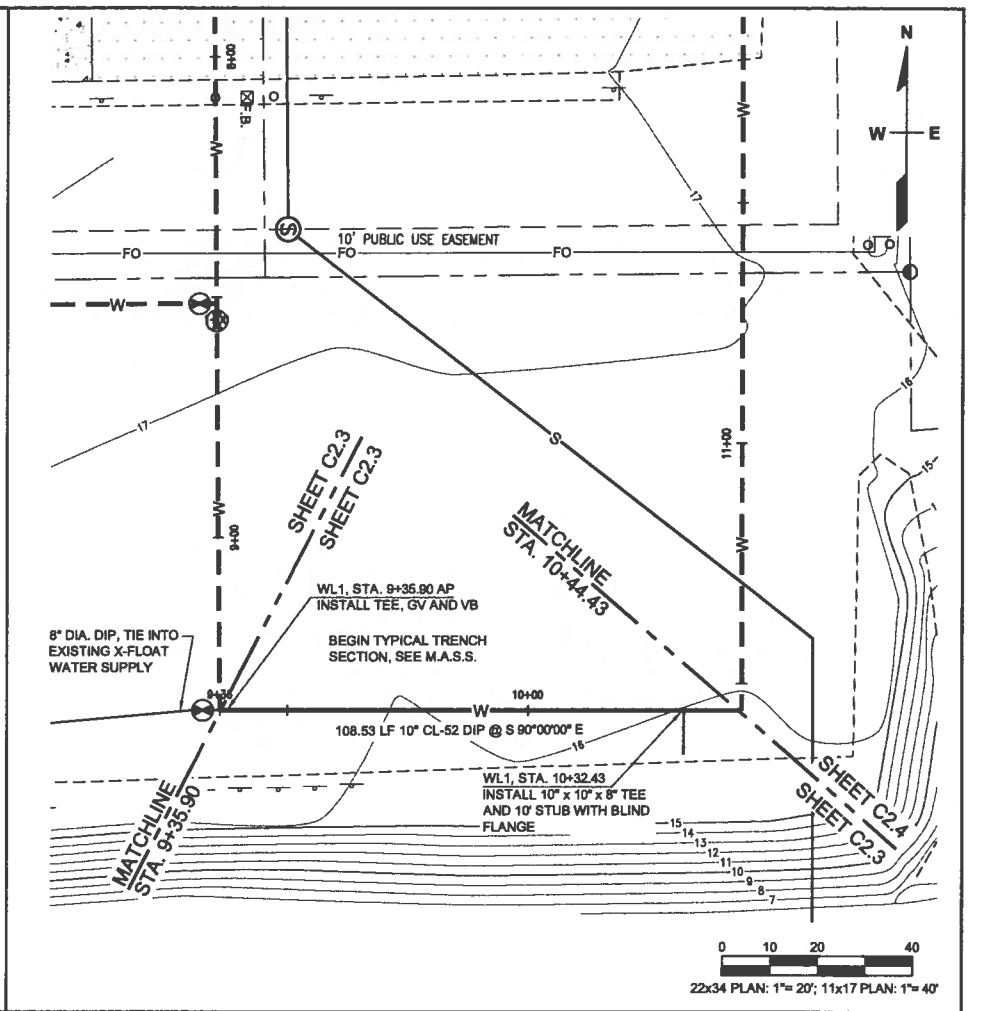
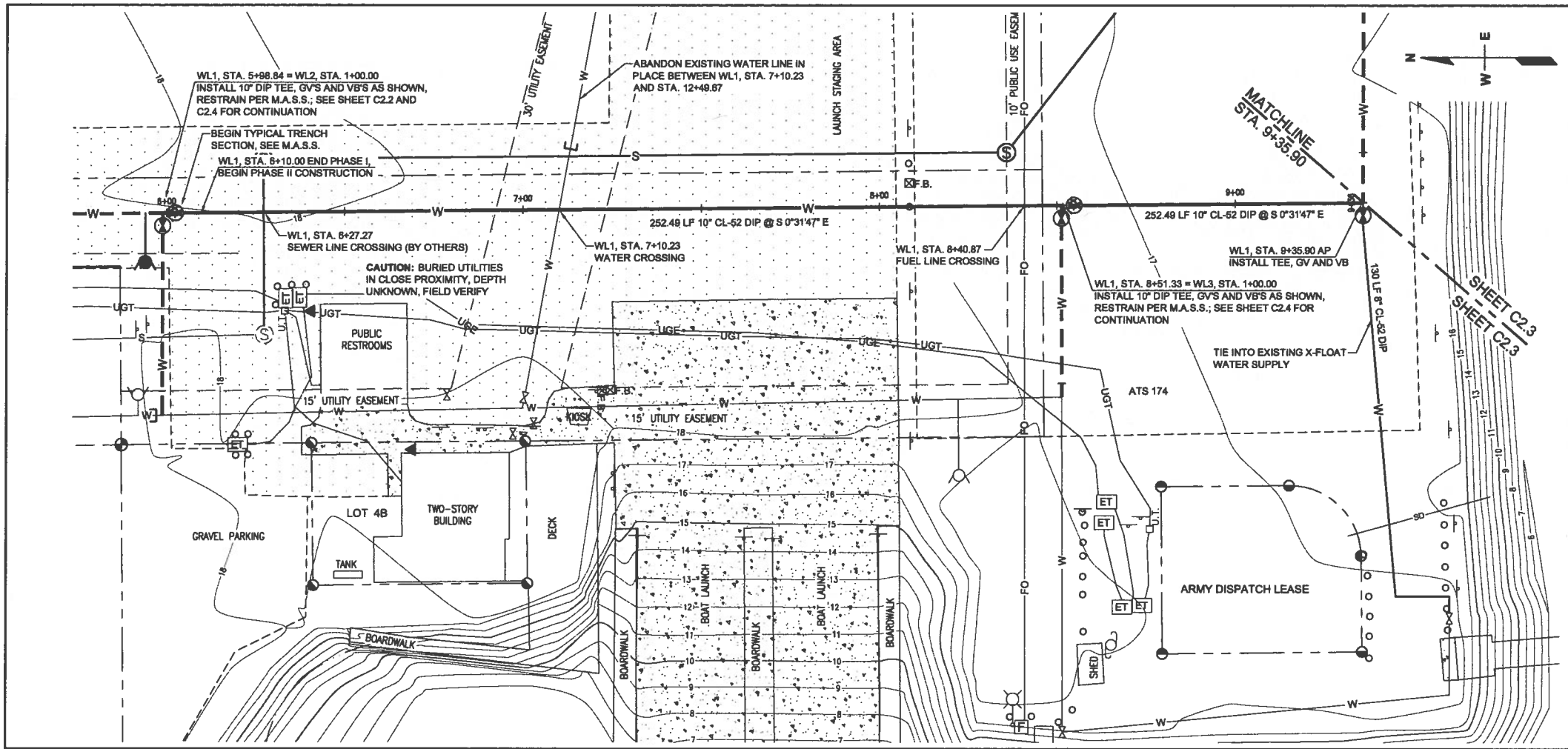
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	C2.2.4_WATER P&P.dwg	



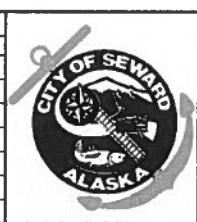
USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION CITY OF SEWARD, ALASKA

WATER LINE WL1, STA. 1+00.00 TO STA. 6+10.00 PLAN AND PROFILE

DATE: 09/03/2010
 JOB NO. SEWD-SEWD-012-0001
 REVISION
 DRAWING NO. **C2.2**



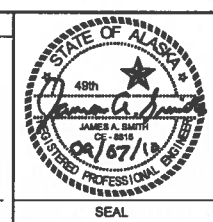
REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



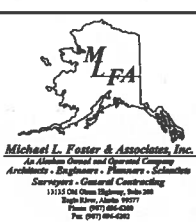
RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME: _____ DATE: _____



DRAWING INFORMATION		
DRAWING SCALE:	22x34 PLAN: 1"= 20'; HORIZ: 1"= 20'; VERT: 1"= 10'	
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	C2.2.4_WATER P&P.dwg	

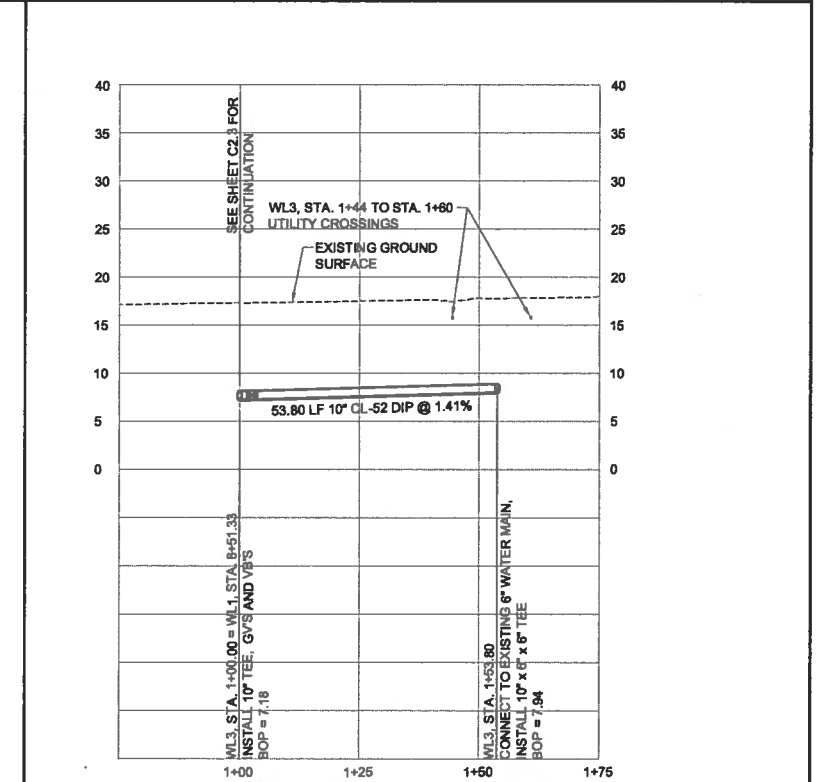
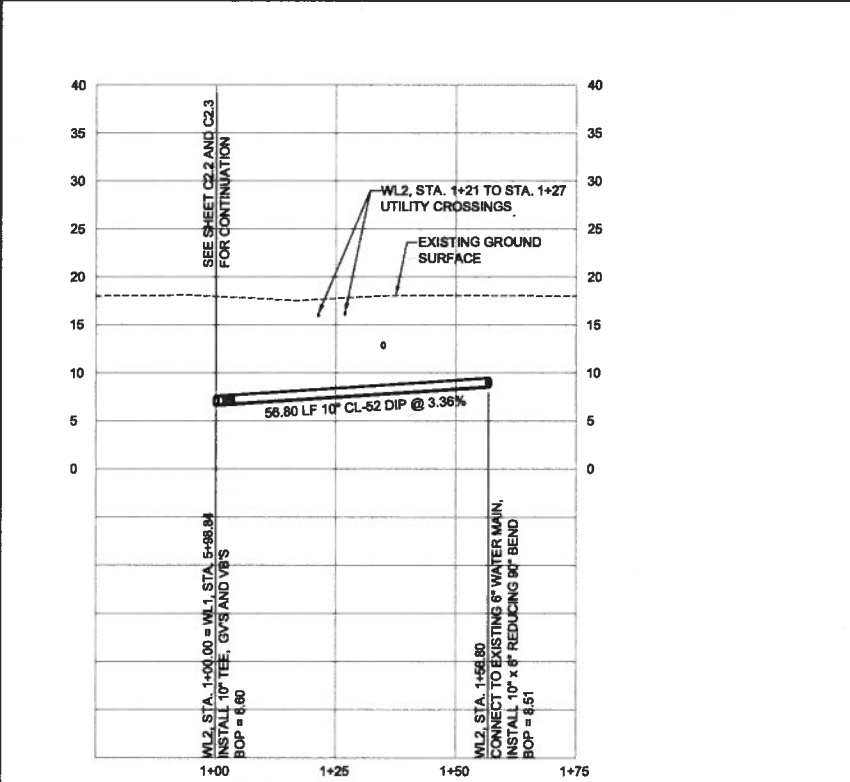
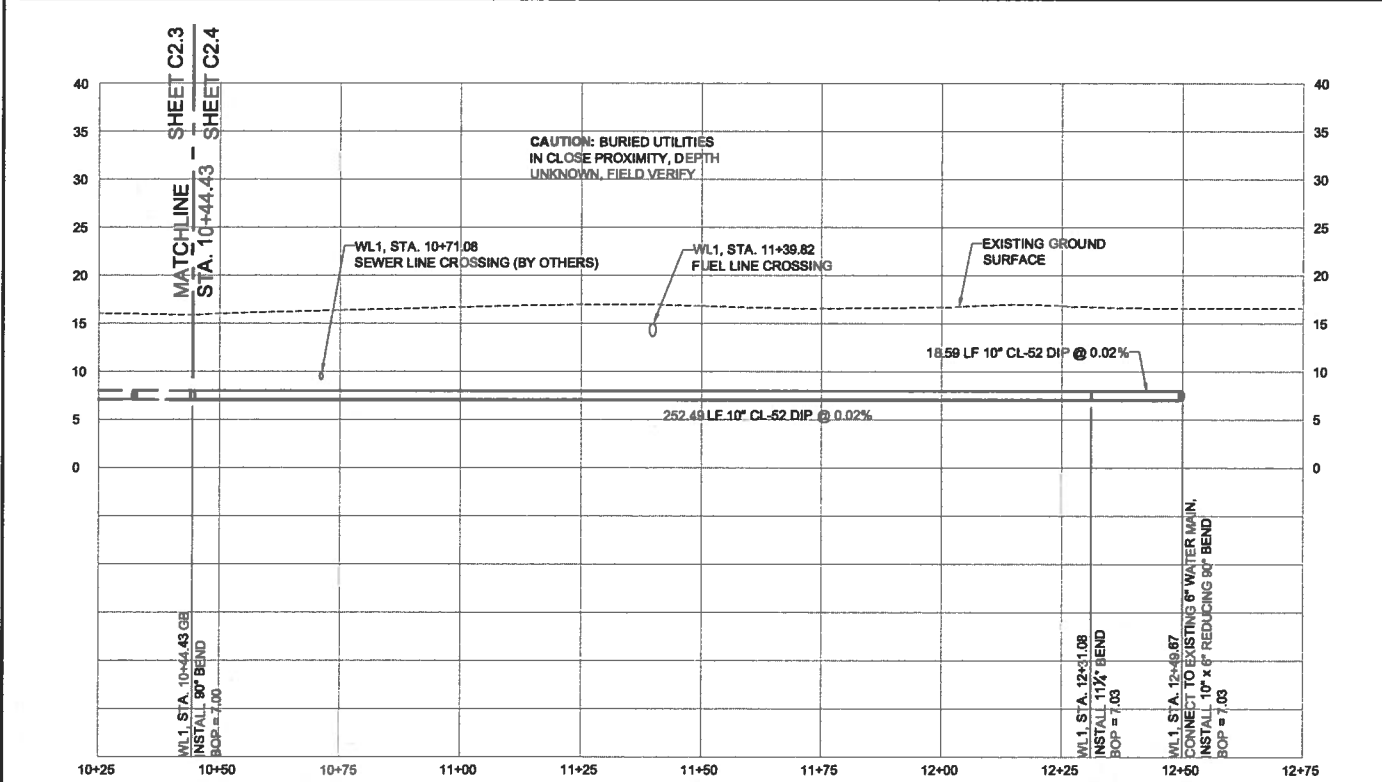
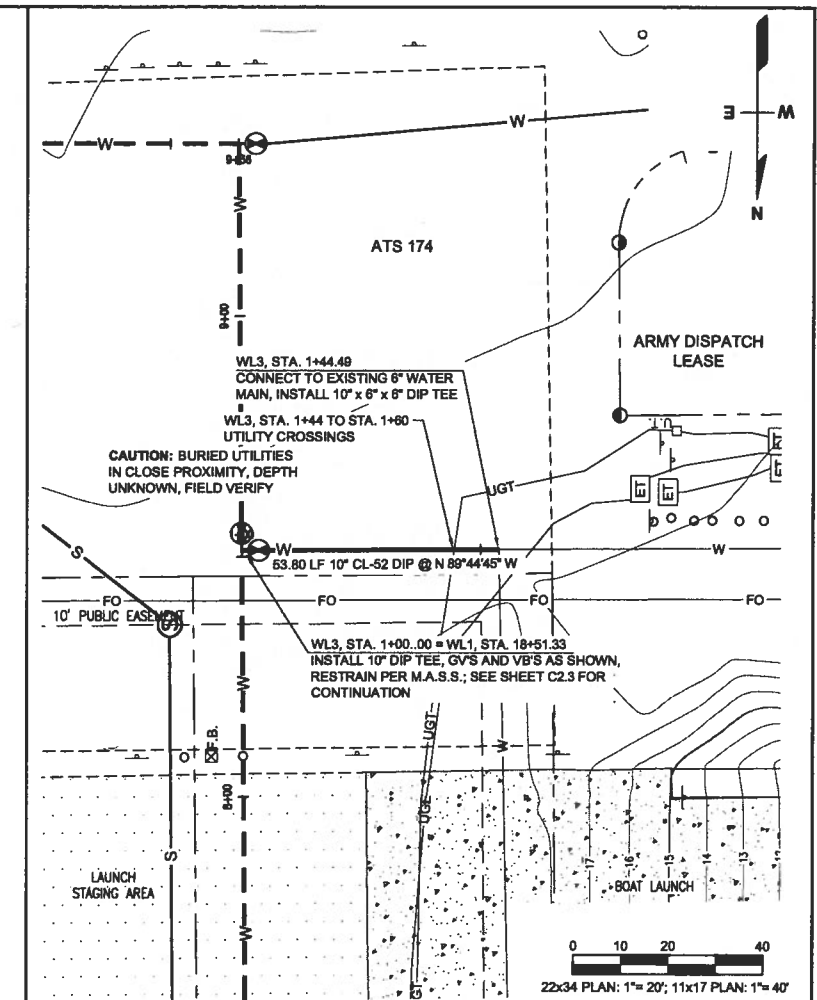
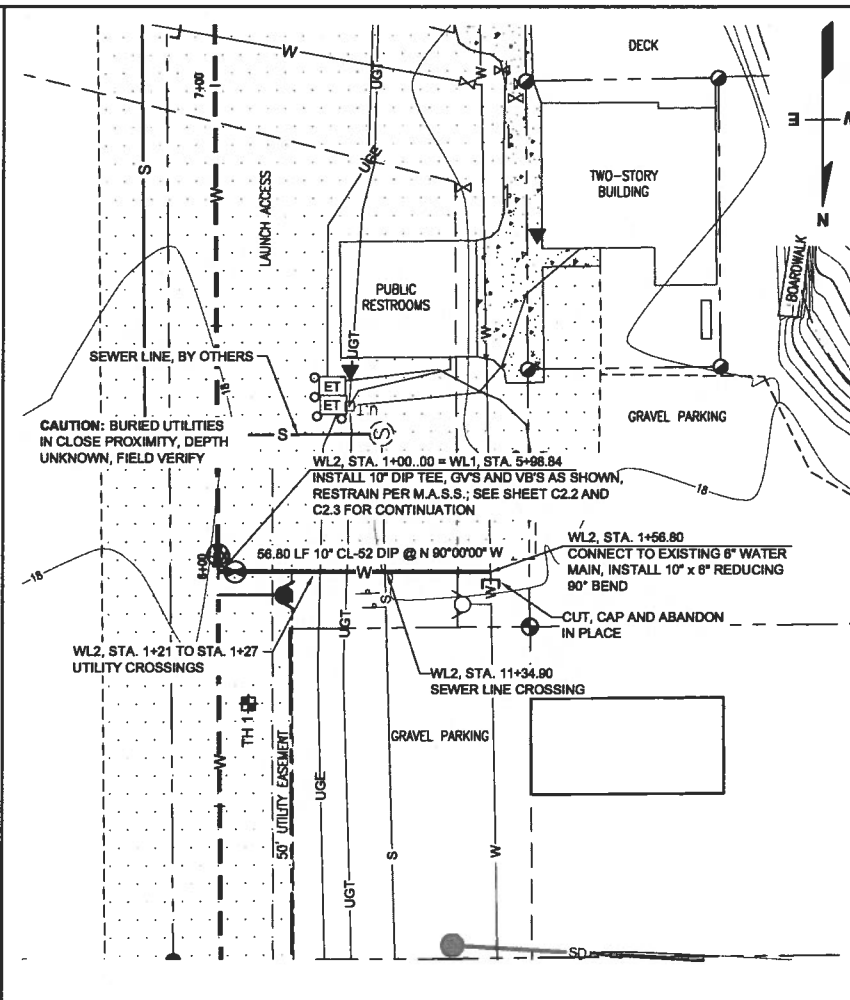
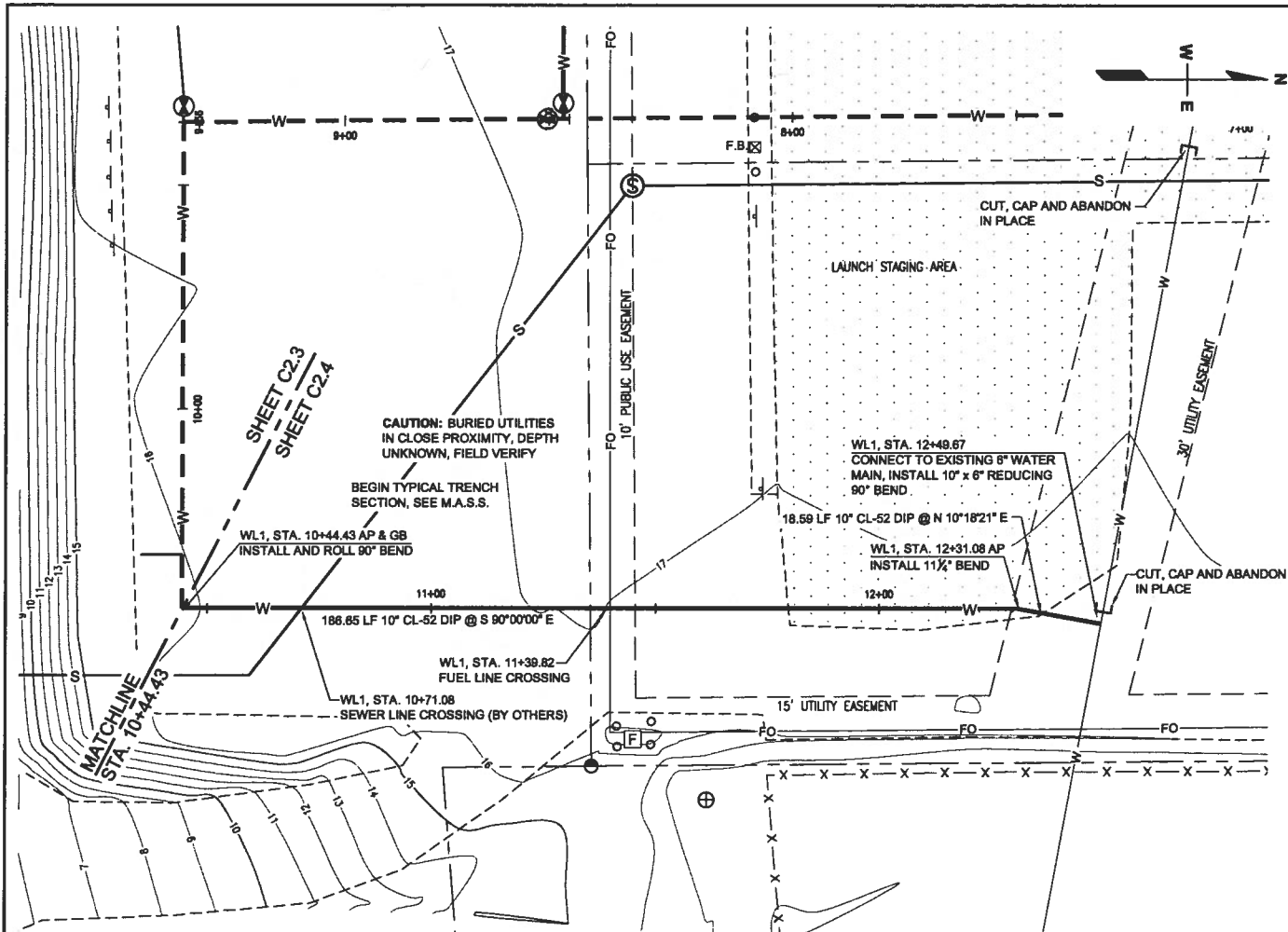


**USCG FOUNDATION & SITE UTILITIES,
MARINA SUBDIVISION
CITY OF SEWARD, ALASKA**

**WATER LINE WL1, STA. 6+10.00 TO
STA. 10+44.43 PLAN AND PROFILE**

C2.3

DATE: 09/07/2010
JOB NO: SEWD-SEWD-012-0001
REVISION:
DRAWING NO:



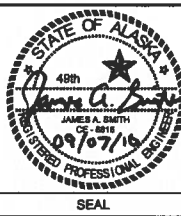
REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME _____ DATE _____



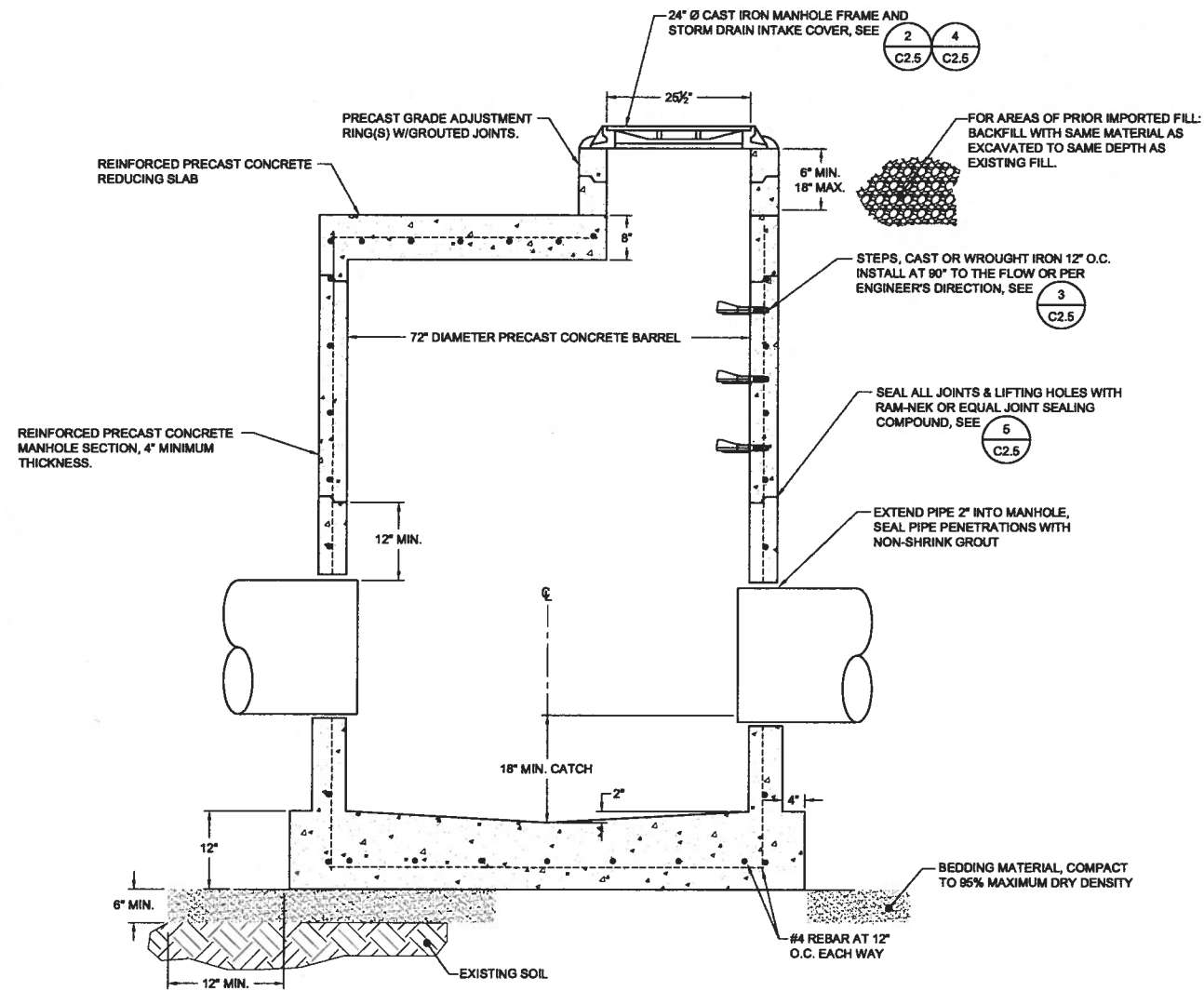
DRAWING INFORMATION		
DRAWING SCALE:	22x34 PLAN: 1"= 20'; HORIZ: 1"= 20'; VERT: 1"= 10'	
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	C2.24_WATER P&P.dwg	



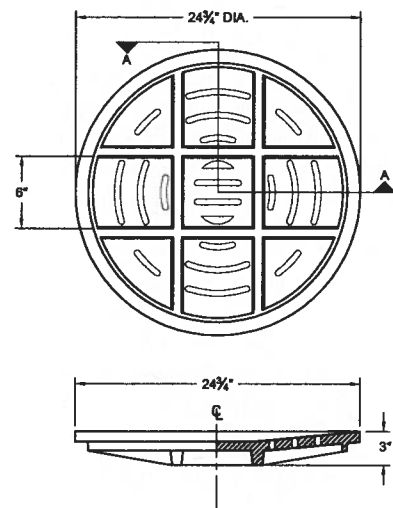
USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION CITY OF SEWARD, ALASKA

WATERLINE WL1, STA. 10+44.43 TO STA. 12+49.67; WL2 STA. 1+00.00 TO STA. 1+56.80; WL3 STA 1+00.00 TO STA. 1+53.80 PLAN AND PROFILE

DATE:	09/07/2010
JOB NO.:	SEWD-SEWD-012-0001
REVISION:	
DRAWING NO.:	C2.4



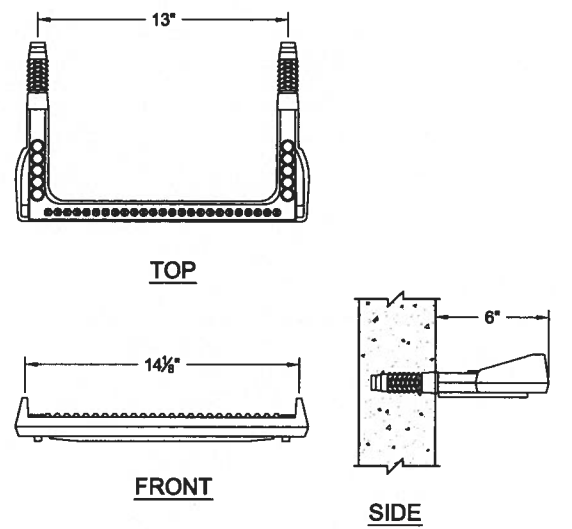
1 STORM DRAIN MANHOLE SECTION
C2.5 NOT TO SCALE



SECTION A - A

2 STORM DRAIN INTAKE COVER AND RING
C2.5 NOT TO SCALE

NOTE: STEPS MUST BE INSTALLED DURING MANHOLE SECTION POUR OR BEFORE CONCRETE SETS.

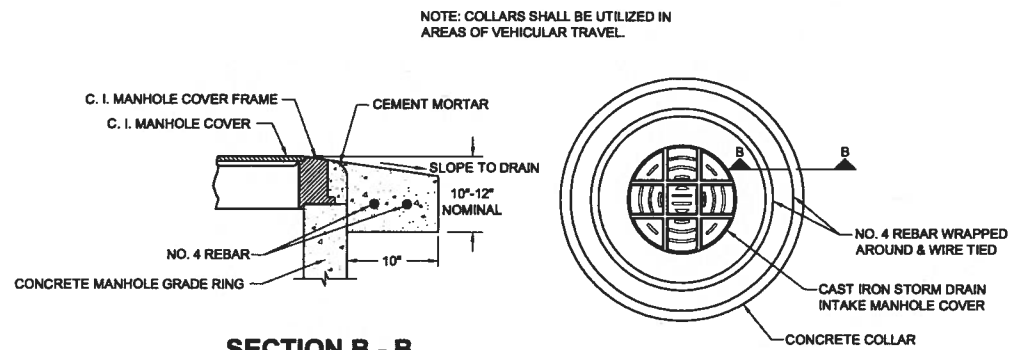


TOP

FRONT

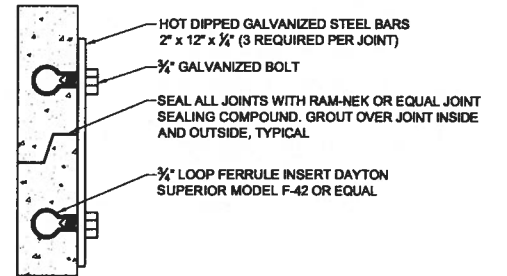
SIDE

3 MANHOLE STEP
C2.5 NOT TO SCALE



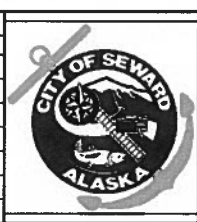
SECTION B - B

4 MANHOLE COLLAR DETAIL
C2.5 NOT TO SCALE



5 JOINT STRAPPING DETAIL
C2.5 NOT TO SCALE

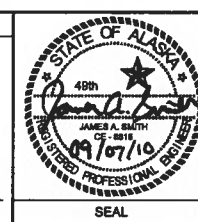
REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



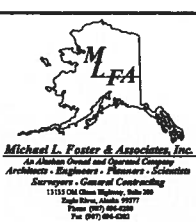
RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME: _____ DATE: _____



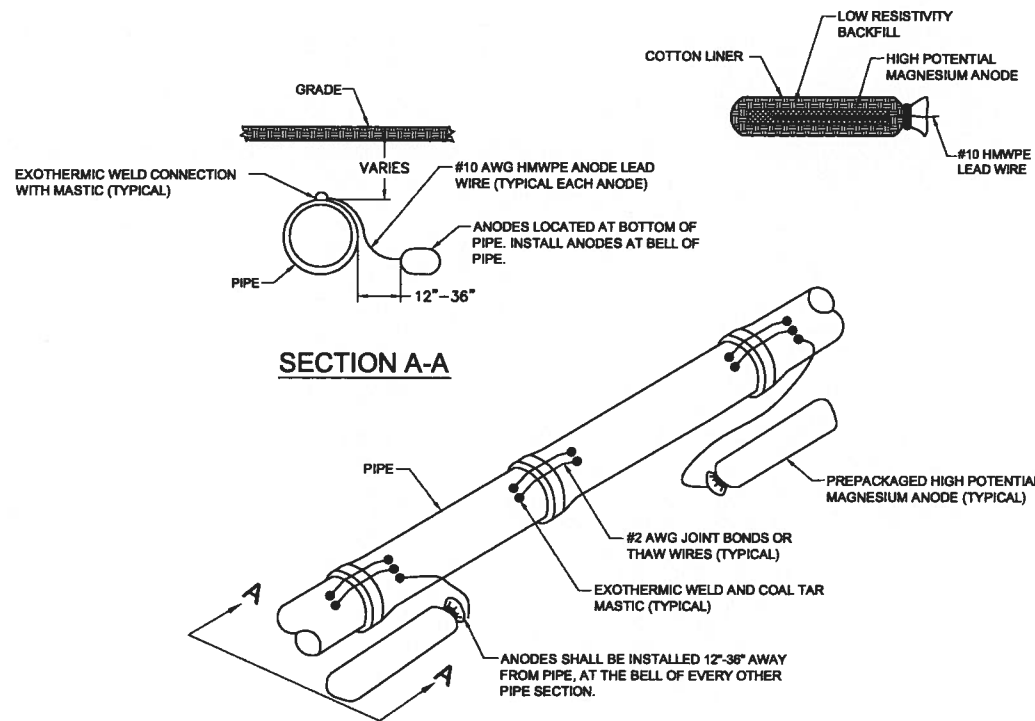
DRAWING INFORMATION			
DRAWING SCALE:		NOT TO SCALE	
DESIGNED BY:	JAS	INIT.	DATE
DRAWN BY:	AM	SEPTEMBER 2010	
CHECKED BY:	JAS	SEPTEMBER 2010	
APPROVED BY:	JAS	SEPTEMBER 2010	
FILE:	C2.5_SD MANHOLE DETAILS.dwg		



USCG FOUNDATION & SITE UTILITIES,
MARINA SUBDIVISION
CITY OF SEWARD, ALASKA

STORM DRAIN MANHOLE SECTION AND DETAILS

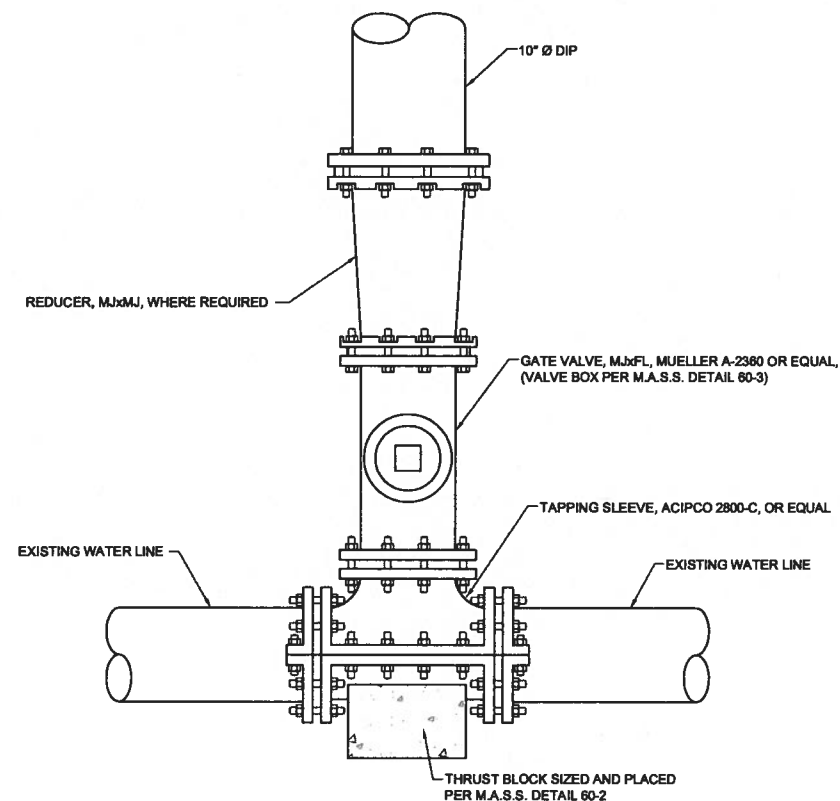
DATE	08/20/2010
JOB NO.	SEWD-SEWD-012-0001
REVISION	
DRAWING NO.	C2.5



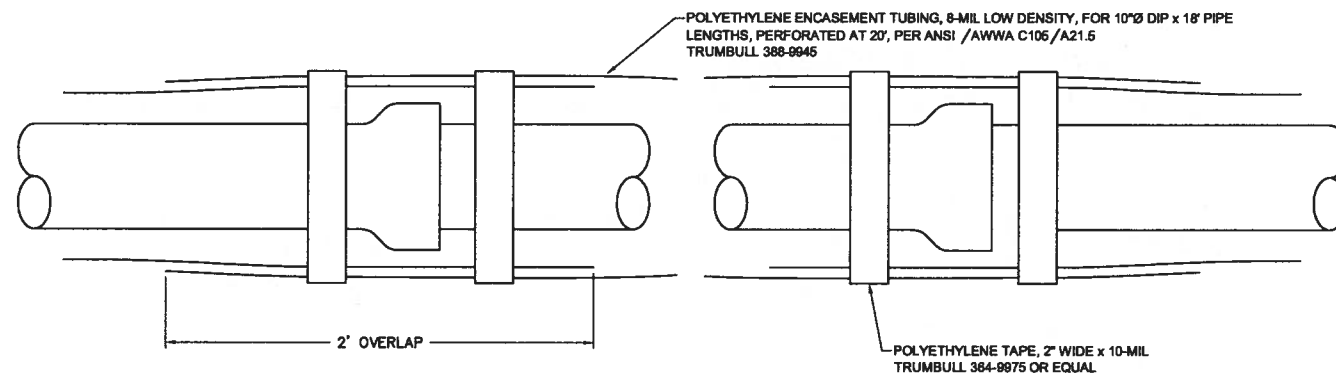
1 CATHODIC PROTECTION DETAIL
C2.6 NOT TO SCALE

CATHODIC PROTECTION NOTES

1. PROVIDE CATHODIC PROTECTION FOR ALL BURIED DIP, VALVES, SLEEVES, AND FITTINGS.
2. HIGH POTENTIAL MAGNESIUM ANODES SHALL BE PREPACKAGED IN A CLOTH BAG WITH A BACKFILL MIXTURE OF 75% GYPSUM, 20% BENTONITE AND 5% SODIUM SULFATE. THE ANODES SHALL HAVE A 20 LB. BARE WEIGHT AND APPROXIMATELY 70 LB. PACKAGED WEIGHT.
3. ANODES SHALL BE INSTALLED ON EVERY OTHER JOINT OF PIPE (A MAXIMUM OF 36 FEET OF BURIED PIPE BETWEEN ANODES). AN ANODE IS REQUIRED ON THE FIRST AND LAST JOINT OF PIPE.
4. PROVIDE COORDINATES OR PIPE STATIONING FOR EACH ANODE INSTALLED.
5. TWO #2 AWG THAW WIRES ARE REQUIRED FOR PIPE SIZES LESS THAN 12". TWO #2 AWG JOINT BOND WIRES ARE REQUIRED FOR PIPE SIZES 12" AND LARGER, WHEN ANODE INSTALLATIONS ARE REQUIRED.
6. ALL CABLES SHALL BE SINGLE CONDUCTOR, STRANDED COPPER, WITH TYPE HMWPE INSULATION RATED FOR 800 VOLTS.
7. SPLIT-BOLT CONNECTIONS WILL NOT BE ALLOWED ON ANY UNDERGROUND CONDUCTORS. IF SPLICES ARE REQUIRED, COMPRESSION CONNECTIONS (BURNDY OR APPROVED EQUAL) SHALL BE USED. COMPRESSION CONNECTIONS SHALL BE SEALED WITH A HEAT SHRINK SLEEVE RATED FOR BELOW GRADE USE.
8. EXOTHERMIC WELDS SHALL BE MADE ACCORDING TO MANUFACTURER'S RECOMMENDATIONS (NOTE: COPPER CONDUCTOR SLEEVES ARE REQUIRED FOR #10 WIRE BY SOME MANUFACTURER'S). COAT THE EXOTHERMIC WELD AREA WITH COAL TAR MASTIC.

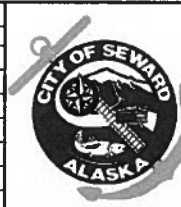


2 TAPPING SLEEVE DETAIL
C2.6 NOT TO SCALE



3 POLYETHYLENE ENCASEMENT
C2.6 NOT TO SCALE

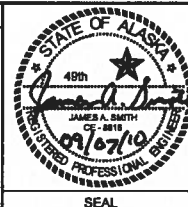
REFERENCES TITLE	REVISIONS			
	NO.	BY	DATE	DESCRIPTION



RECORD DRAWING CERTIFICATE

THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME	DATE
------	------



DRAWING INFORMATION

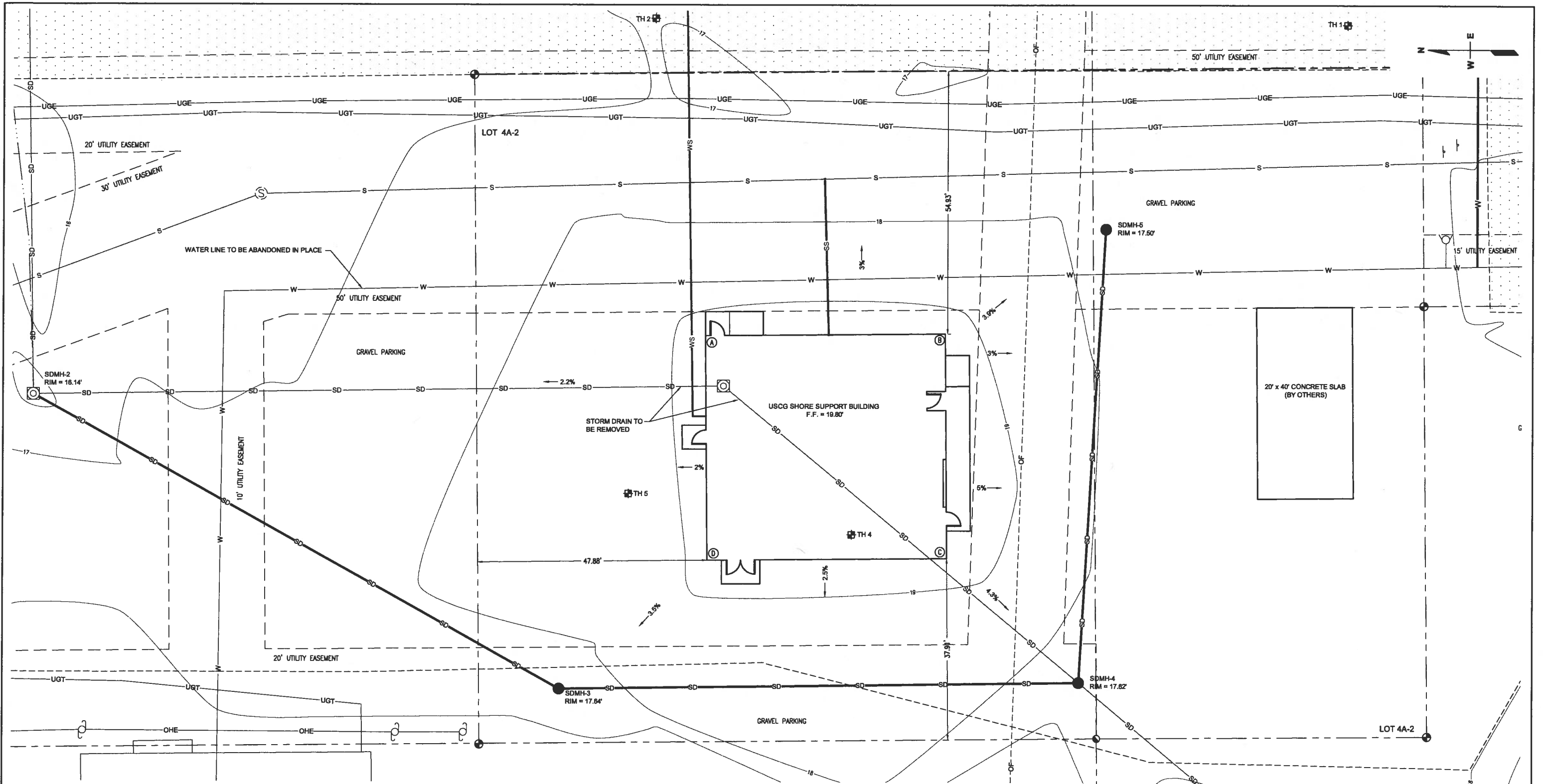
DRAWING SCALE:	NOT TO SCALE	
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	CWS	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	C2.6_WATER DETAILS.dwg	



USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION CITY OF SEWARD, ALASKA

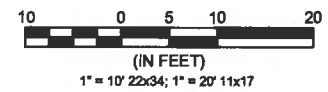
WATER LINE DETAILS

DATE:	08/24/2010
JOB NO.:	SEWD-SEWD-012-001
REVISION:	
DRAWING NO.:	C2.6



ELEVATION AND COORDINATE TABLE				
ITEM	LOCATION	ELEVATION	NORTHING	EASTING
(A)	F.G. AT NE CORNER	19.22	2236844.76	603865.67
(B)	F.G. AT SE CORNER	19.22	2236794.76	603866.11
(C)	F.G. AT NW CORNER	19.22	2236794.35	603819.11
(D)	F.G. AT SW CORNER	19.22	2236844.35	603818.68

1 SITE PLAN
 C1.0 22x34: 1"=10'; 11x17: 1"=20'

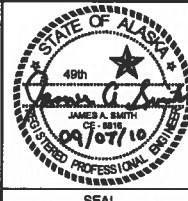


REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



RECORD DRAWING CERTIFICATE
 THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.

NAME _____ DATE _____



DRAWING INFORMATION

DRAWING SCALE: 22x34: 1"=10'; 11x17: 1"=20'

INIT.	DATE
DESIGNED BY: JAS	SEPTEMBER 2010
DRAWN BY: AM	SEPTEMBER 2010
CHECKED BY: JAS	SEPTEMBER 2010
APPROVED BY: JAS	SEPTEMBER 2010
FILE: C3.0_PRO-SITE PLAN.dwg	



USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION CITY OF SEWARD, ALASKA		DATE: 09/07/2010
USCG SHORE SUPPORT BUILDING SITE AND GRADING PLAN		JOB NO. SEWD-SEWD-011-0001
		REVISION
DRAWING NO. C3.0		

GENERAL

UNLESS NOTED OTHERWISE, ALL CONSTRUCTION MUST CONFORM TO THE REQUIREMENTS OF THE LATEST VERSION OF THE INTERNATIONAL BUILDING CODE ADOPTED BY THE STATE OF ALASKA AND MUNICIPALITY OF ANCHORAGE STANDARD SPECIFICATIONS (MASS 2008, FIRST REVISION).

THE BUILDING FOUNDATION SHALL CONSIST OF 18" WIDE BY 10" HIGH REINFORCED CONCRETE PERIMETER FOOTINGS WITH A 6" WIDE BY 48" HIGH REINFORCED CONCRETE PERIMETER WALL. INTERIOR SUPPORTING WALL FOOTINGS SHALL CONSIST OF ONE 24" WIDE BY 10" HIGH REINFORCED CONCRETE FOOTING SPANNING THE WIDTH OF THE BUILDING AND ONE 18" WIDE BY 10" HIGH REINFORCED CONCRETE FOOTING. INTERIOR SUPPORTING WALL FOOTINGS SHALL BE CAST FLUSH WITH PERIMETER FOUNDATION WALLS AND FINISHED SMOOTH.

DIMENSIONS SHOWN ARE FROM THE USCG SHORE SUPPORT BUILDING AS-BUILT RECORD DRAWINGS NO. S-3015. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS BEFORE STARTING THE WORK.

STUB-INS FOR WATER, SEWER, ELECTRIC, TELEPHONE, FUEL, AND ANY OTHER REQUIRED UTILITY SERVICES MUST BE ACCOMMODATED BEFORE CONCRETE IS PLACED.

DESIGN CRITERIA

SOIL BEARING CAPACITY	2,000 PSF
DESIGN WIND SPEED	130 MPH
GROUND SNOW LOAD	70 PSF
SEISMIC IMPORTANCE FACTOR:	Ic = 1.0
SEISMIC SITE CLASS	D
SEISMIC DESIGN CATEGORY	D
SPECTRAL ACCELERATION, S _a	1.785
SPECTRAL ACCELERATION, S _v	0.865

SITE PREPARATION

OVER-EXCAVATE SOIL BELOW THE BUILDING FOUNDATION AND SLAB A MINIMUM 24" BELOW PERIMETER FOOTING DEPTH TO REMOVE POOR QUALITY FILL, ORGANICS, AND DEBRIS.

ALL FILL PLACED BELOW THE BUILDING FOOTPRINT AND TO GRADE AROUND THE BUILDING SHALL BE NON-FROST SUSCEPTIBLE STRUCTURAL FILL MATERIAL FREE OF ORGANIC MATTER AND DEBRIS PLACED IN LIFTS NOT EXCEEDING 12" IN LOOSE THICKNESS. EACH LIFT SHALL BE COMPACTED TO 95% OF MAXIMUM DENSITY DETERMINED ACCORDING TO ASTM D-1557. NUCLEAR METHOD FIELD DENSITY TESTS SHALL BE PERFORMED BY AN APPROVED TESTING LABORATORY AND THE TEST RESULTS APPROVED BEFORE ANY CONSTRUCTION ON THE FILL.

CONCRETE

A) CONCRETE PROPERTIES:

USE	FC'	SLUMP
FOOTINGS & FOUNDATION WALLS	3,000 P.S.I.	4" - 5"
SLABS ON GRADE	4,000 P.S.I.	3" - 4"

B) REINFORCING STEEL SHALL CONFORM TO ASTM A815, GRADE 60, EXCEPT ANY REINFORCING STEEL REQUIRING WELDING SHALL CONFORM TO ASTM A708.

C) AN AIR ENTRAINING AGENT, CONFORMING TO ASTM C280 SHALL BE USED IN ALL CONCRETE MIXES. THE AMOUNT OF ENTRAINING AIR SHALL BE 5% BY VOLUME WITH A TOLERANCE OF 1%.

D) SUBMIT A MIX DESIGN FOR APPROVAL. ALL CONCRETE MUST BE TESTED BY AN APPROVED TESTING LAB AT 7 AND 28 DAYS, AND THE RESULTS SUBMITTED FOR APPROVAL.

E) CONCRETE SURFACE HARDENER:

- 1) APPLY "CON PLATE" 1,000 DRY SHAKE SURFACE HARDENER AT 2 LBS PER SQ. FT. ACCORDING TO MANUFACTURER'S RECOMMENDATIONS.

CONCRETE REINFORCEMENT

18" x 10" PERIMETER BUILDING FOOTING - TWO EA. NO. 5 REBAR CONTINUOUS

6" x 48" PERIMETER BUILDING FOUNDATION WALL
VERTICAL NO. 5 REBAR WITH 7" HOOK AT 12" O.C.
HORIZONTAL NO. 5 REBAR AT 10" O.C. CONTINUOUS WITH 30" x 30" BENT REBAR AT CORNERS AND INTERSECTIONS WITH MINIMUM 25" LAP.

24" x 10" INTERIOR FOOTING - THREE EA. NO. 5 REBAR CONTINUOUS WITH TIES TO PERIMETER FOUNDATION WALL

18" x 10" INTERIOR FOOTING - TWO EA. NO. 5 REBAR CONTINUOUS WITH TIES TO PERIMETER FOUNDATION WALL

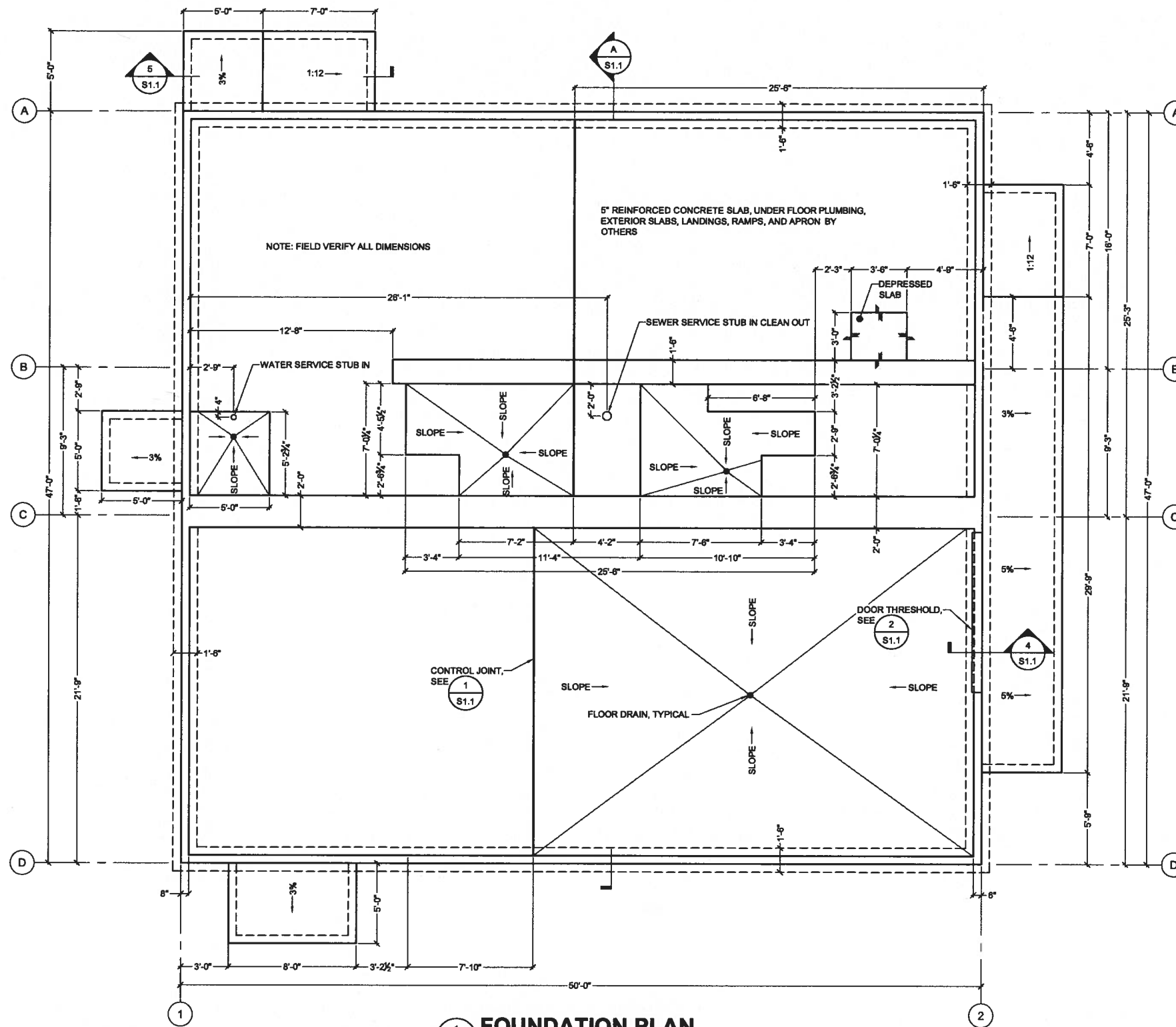
BUILDING FLOOR SLAB - NO. 4 REBAR AT 12" O.C. EACH WAY (BY OTHERS)

EXTERIOR SLABS, LANDINGS, RAMPS, AND APRONS - NO. 4 REBAR AT 12" O.C. EACH WAY (BY OTHERS)

ANCHOR BOLTS - (BY OTHERS)

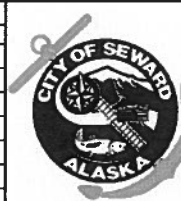
DRILL AND SET 5/8" DIAMETER GALVANIZED THREADED ROD ANCHOR BOLTS AT 38" O.C. AND WITHIN 12" OF CORNERS AND OPENINGS AFTER BUILDING IS PLACED ON FOUNDATION. SET WITH SIMPSON SET-XP EPOXY ANCHORING ADHESIVE AND MINIMUM 7" CONCRETE EMBEDMENT.

NOTE: ALL SLABS BY OTHERS

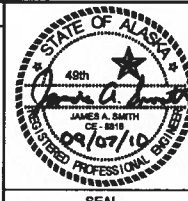


1 FOUNDATION PLAN
S1.0 23x34: 1/4" = 1'-0"; 11x17: 1/8" = 1'-0"

REFERENCES	REVISIONS				
	TITLE	NO.	BY	DATE	DESCRIPTION



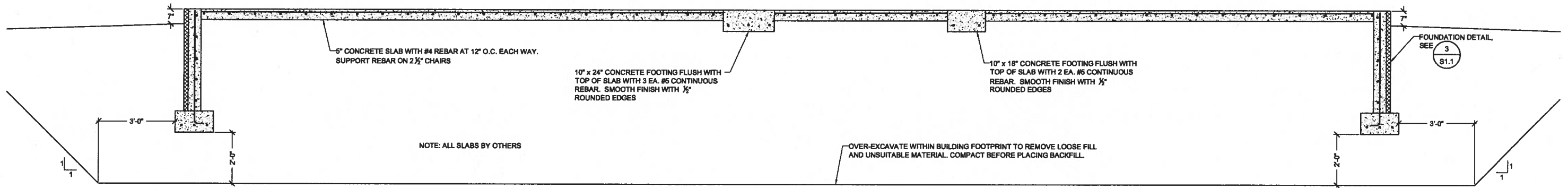
RECORD DRAWING CERTIFICATE	
THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.	
NAME	DATE



DRAWING INFORMATION		
DRAWING SCALE:	AS SHOWN	
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	S1.0_1_FOUNDATION.dwg	

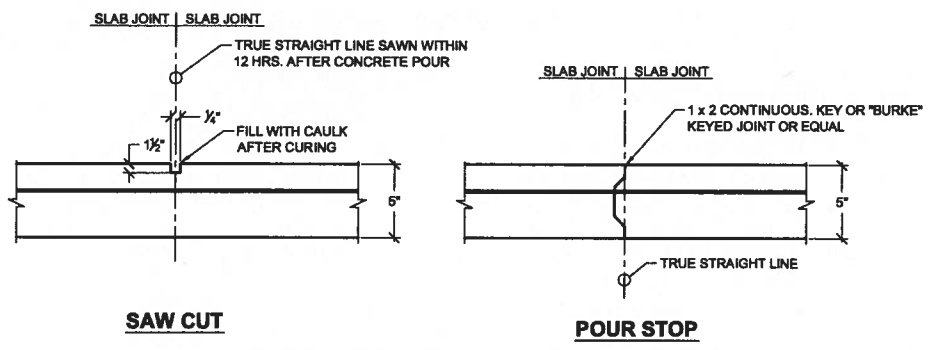


USCG FOUNDATION & SITE UTILITIES, MARINA SUBDIVISION, CITY OF SEWARD, ALASKA		DATE:
USCG SHORE SUPPORT BUILDING FOUNDATION PLAN		09/07/2010
		JOB NO. SEWD-SEWD-011-0001
REVISION		DRAWING NO.
		S1.0

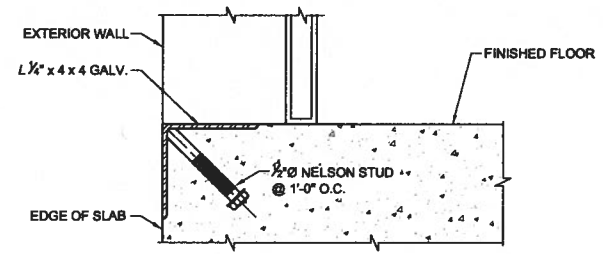


A FOUNDATION CROSS SECTION
 S1.1 23x34: 1/2" = 1'-0"; 11x17: 1/4" = 1'-0"

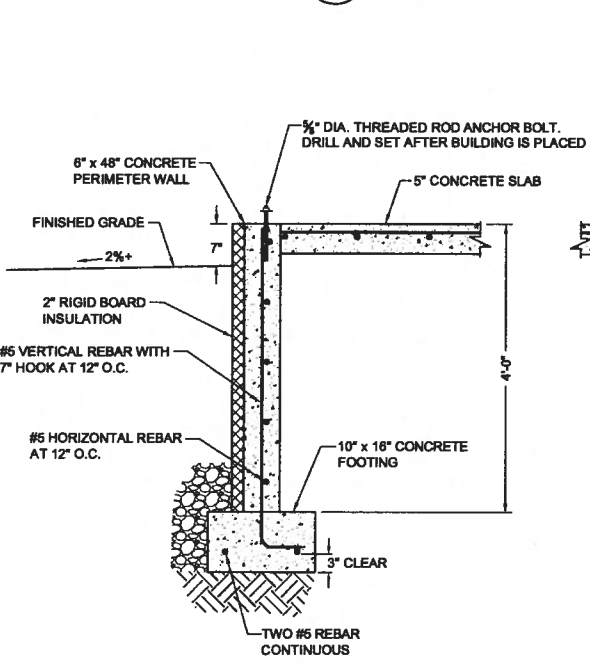
NOTE: AVOID SAW CUT IN SLAB AT OR NEAR CLOSE PROXIMITY TO REINFORCING BARS LOCATED AT TOP OF SLAB.



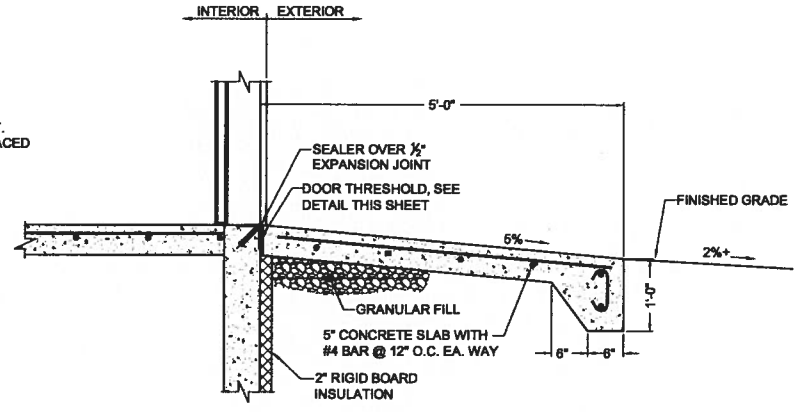
1 CONTROL JOINT
 S1.1 NOT TO SCALE



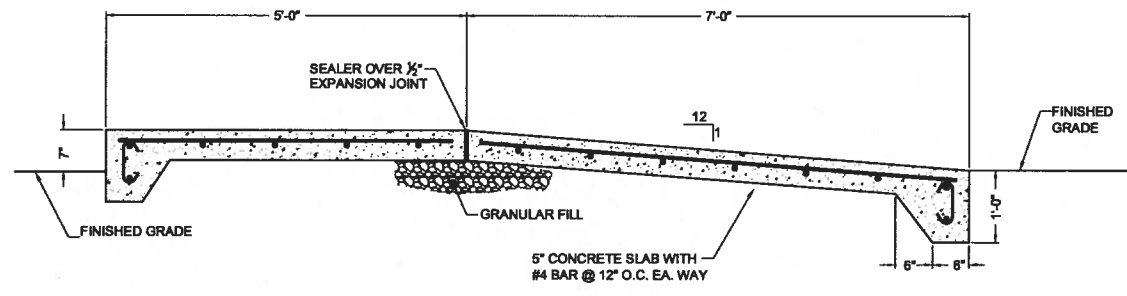
2 DOOR THRESHOLD
 S1.1 NOT TO SCALE



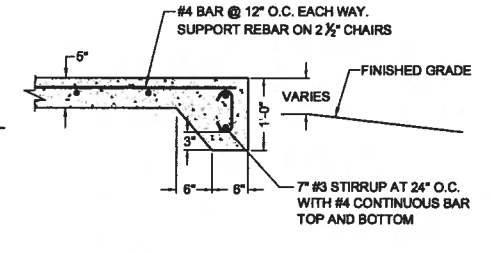
3 FOUNDATION DETAIL
 S1.1 23x34: 3/4" = 1'-0"; 11x17: 3/8" = 1'-0"



4 CONCRETE APRON DETAIL
 S1.1 23x34: 3/4" = 1'-0"; 11x17: 3/8" = 1'-0"



5 CONCRETE WALK WITH RAMP
 S1.1 23x34: 3/4" = 1'-0"; 11x17: 3/8" = 1'-0"

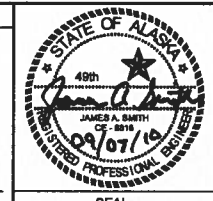


6 THICKENED CONCRETE EDGE DETAIL
 S1.1 23x34: 3/4" = 1'-0"; 11x17: 3/8" = 1'-0"

REFERENCES		REVISIONS			
TITLE		NO.	BY	DATE	DESCRIPTION



RECORD DRAWING CERTIFICATE
 THESE DRAWINGS REFLECT RECORDED INFORMATION OBTAINED DURING CONSTRUCTION. INFORMATION PROVIDED HEREIN IS ACCURATE TO THE BEST OF MY KNOWLEDGE.



DRAWING INFORMATION		
DRAWING SCALE:		AS SHOWN
INIT.	DATE	
DESIGNED BY:	JAS	SEPTEMBER 2010
DRAWN BY:	AM	SEPTEMBER 2010
CHECKED BY:	JAS	SEPTEMBER 2010
APPROVED BY:	JAS	SEPTEMBER 2010
FILE:	S1.0_1_FOUNDATION.dwg	



USCG FOUNDATION & SITE UTILITIES,
 MARINA SUBDIVISION
 CITY OF SEWARD, ALASKA

FOUNDATION CROSS SECTION AND DETAILS

DATE:	09/07/2010
JOB NO.:	SEWD-SEWD-011-001
REVISION:	
DRAWING NO.:	S1.1