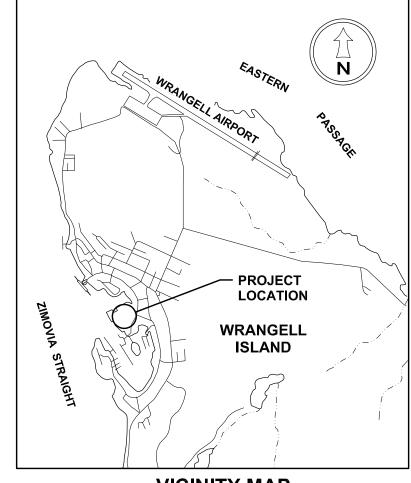
CITY AND BOROUGH OF WRANGELL WRANGELL MARINE SERVICE CENTER **CONCRETE PAVING- PHASE III** 2014



PROJECT SCHEDULE							
DESCRIPTION		EARLIEST START	SUBSTANTIAL COMPLETION SCHEDULE				
BASE BID		NTP	SEPTEMBER 9, 2014				
ADD. ALT. 1		SEPTEMBER 9, 2014	OCTOBER 7, 2014				
ADD. ALT. 2		SEPTEMBER 9, 2014	OCTOBER 7, 2014				
ADD. ALT. 3		OCTOBER 7, 2014	OCTOBER 28, 2014				

NOTE: CONCRETE COMPRESSIVE STRENGTH SHALL OBTAIN 80% I'C, PAVEMENT IS SEALED AND JOINT SEALANT COMPLETE BY THE SUBSTANTIAL COMPLETION DATES LISTED.



VICINITY MAP

DESIGN PARAMETERS:

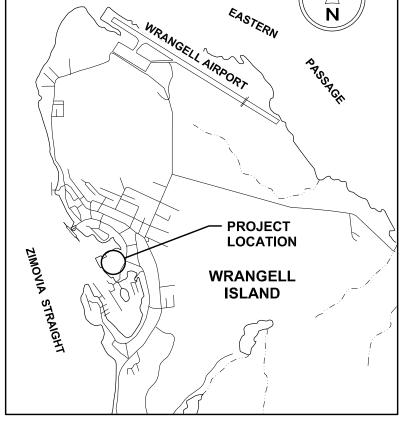
APPLICABLE CODES:

REVISIONS

DESCRIPTION

LIVE LOADS:

TRUCK: ASSHTO HS20-44 FORKLIFT: 237,000 LBS AXLE, 118,500 LBS PER WHEEL BOAT HOIST: 300 BFM (300 TON) BOAT HOIST, 275,000 LBS WHEEL LOAD UNIFORM LOAD: 1000 PSF



SKAGWAY HAINES
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
JUNEAU
SITKA S TENS
PETERSBURG
WRANGELL
KETCHIKAN
S S S S S S S S S S S S S S S S S S S

SOUTHEAST ALASKA

DRAWING INDEX						
SHEET NO. D	WG. NO.	SHEET TITLE				
1 OF 14	1.01	COVER SHEET, VICINITY MAP AND DRAWING INDEX				
2 OF 14	1.02	LEGEND, ABBREVIATIONS & GENERAL NOTES				
3 OF 14	1.03	EXISTING CONDITIONS AND SURVEY CONTROL				
4 OF 14	1.04	DEMOLITION SITE PLAN				
5 OF 14	2.01	OVERALL SITE PLAN — FINAL GRADE CONTOURS				
6 OF 14	2.02	SITE PLAN — BASE BID				
7 OF 14	2.03	SITE PLAN - ADD. ALT. 1				
8 OF 14	2.04	SITE PLAN - ADD. ALT. 2				
9 OF 14	2.05	SITE PLAN — ADD. ALT. 3				
10 OF 14	3.01	SITE SECTIONS				
11 OF 14	3.02	TYPICAL SECTIONS @ 12" THICK CONCRETE SLAB				
12 OF 14	3.03	TYPICAL SECTIONS @ 14" THICK CONCRETE SLAB				
13 OF 14	3.04	TYPICAL SECTIONS AND DETAILS				
14 OF 14	3.05	TYPICAL SECTIONS AND DETAILS				

NOT INTENDED FOR REUSE WITHOUT WRITTEN APPROVAL FROM PND. DRAWINGS ARE ALSO NOT TO BE USED IN ANY MANNER THAT WOULD CONSTITUTE A DETRIMENT DIRECTLY OR INDIRECTLY TO PND.			
	REV.	DATE	-
			+-

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THESE DRAWINGS. DRAWINGS ARE FOR THE USE OF THIS PROJECT ONLY AND ARE



APPROVED:

DRAWN. _WRB

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CITY AND BOROUGH OF WRANGELL. ALASKA WRANGELL MARINE SERVICE CENTER **CONCRETE PAVING- PHASE III**

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

1.01

ABBREVIATIONS

GROUND GATE VALVE

Α		Н		R	
0	AT	H&T	HUB & TACK	RAD	RADIUS
AC	ASBESTOS CEMENT PIPE	HD	HEAVY DUTY	RE	RIM ELEVATION
ACP	ASPHALT CONCRETE PAVEMENT	HDG	HOT DIPPED GALVANIZED	REF	REFERENCE
ADJ APF	ADJUSTABLE ASSOCIATED PILE AND FITTING CORP.	HDPE HORIZ	HIGH DENSITY POLYETHYLENE HORIZONTAL	REINF	REINFORCEMENT
APPROX.	APPROXIMATE	HSE	HOUSE	REQD RET	REQUIRED RETAINING
AV	AIR RELEASE VALVE	HT	HEIGHT	RO	ROUGH OPENING
В		HWY.	HIGHWAY	ROW	RIGHT OF WAY
BFV	BUTTERFLY VALVE	1		S	morri or mit
BLDG	BUILDING		INCIDE DIAMETED	S	SOUTH
B0P	BEGINNING OF PROJECT	ID IE	INSIDE DIAMETER INVERT ELEVATION	SCHED	SCHEDULE
ВТМ,ВОТ	BOTTOM	IN	INCH	SD	STORM DRAIN
С		ΪΡ	IRON PIPE	SDI	STORM DRAIN INLET STRUCTURE
C/0	CLEANOUT	INCL	INCLUDE (D) (ING)	SD0	STORM DRAIN OUTLET STRUCTURE
C&G	CURB & GUTTER	INSUL	INSULATE (Ď) (IOŃ)	SDR	STANDARD DIMENSION RATIO
CB	CATCH BASIN	INV	INVERT	SF	SQUARE FOOT
CI CIP	CAST IRON CAST-IN-PLACE	J		SHLDR	SHOULDER
CJ	CONTROL JOINT	JB	JUNCTION BOX	SI SIM	STREET INTERSECTION SIMILAR
	CENTER LINE	L		SPEC	SPECIFICATION (S)
Q CLR	CLEAR	LBS	POUNDS	SQ	SQUARE
CMP	CORRUGATED METAL PIPE	LBS	LINEAR FEET	SSC	SANITARY SEWER CONNECTION
00	CLEANOUT	LL	LIVE LOAD	SS	STAINLESS STEEL, SANITARY SEWER STORM DRAIN MANHOLE
C.O.E.	CORPS OF ENGINEERS	LOC	LOCATION	SDMH	STORM DRAIN MANHOLE
CONC.	CONCRETE	LS	LUMP SUM	SSMH	SANITARY SEWER MANHOLE
CONT	CONTINUOUS		20111	STA STD	STATION STANDARD
CP CPP	COMPLETE PENETRATION CORRUGATED POLYETHYLENE PIPE	М		STL	STEEL
CPP-S	CORRUGATED POLYETHYLENE PIPE	MAX	MAXIMUM	STRG	STRONG
011 3	- SMOOTH WALL	ME	MATCH EXISTING	SW	SIDEWALK
COR	CORNER	MECH MFR	MECHANICAL MANUFACTURE (R)	SWR	SEWER
CSC	COUNTERSINK	MH	MANHOLE	SY	SQUARE YARD
CTR	CENTER	MI	MALLEABLE IRON	SYM	SYMMETRICAL
CY	CUBIC YARD	MIN	MINIMUM	T	
D		MLLW	MEAN LOWER LOW WATER	t	THICK
D/DIA/ø	DIAMETER	MSF MSE	1000 SQUARE FEET	T&B	TOP AND BOTTOM
DBL .	DOUBLE	MTL	MECHANICALLY STABILIZED EARTH MATERIAL (S)	T&G	TONGUE AND GROOVE
DL	DEAD LOAD		WATERIAL (3)	TBC	TOP BACK OF CURB
DIP	DUCTILE IRON PIPE	N		TBM	TEMPORARY BENCH MARK
DIM DN	DIMENSION DOWN	N	NORTH	TD	TRENCH DRAIN
DTL	DETAIL	NFS	NON FROST SUSCEPTIBLE	TEL	TELEPHONE
	DE IME	NIC NO	NOT IN CONTRACT NUMBER	TEMP	TEMPERATURE, TEMPORARY
Ē	5.07	NTS	NOT TO SCALE	TH	TEST HOLE
E	EAST	0	TO TO SOME	THK TRANS	THICK TRANSVERSE
EA.	EACH STANGER OF THE S	OBD	OVERBURDEN	TV	TELEVISION
EJ TU/EUEV	EXPANSION JOINT	0C	ON CENTER	TYP	TYPICAL
EL/ELEV EOP	ELEVATION END OF PROJECT	OD	OUTSIDE DIAMETER		
OCP	EDGE OF CONCRETE PAVEMENT	ŌĠ	ORIGINAL GROUND	U	
EQ	EQUAL	OHE	OVERHEAD ELECTRICAL	UBC	UNIFORM BUILDING CODE
EQUIP	EQUIPMENT	OWS	OIL-WATER SEPARATOR	UE UMC	UNDERGROUND ELECTRIC UNIFORM MECHANICAL CODE
EST	ESTIMATE	0PP	OPPOSITE	UHMW	ULTRA HIGH MOLECULAR WEIGHT
EXC	EXCAVATE	Р		UON	UNLESS OTHERWISE NOTED
EXIST	EXISTING	P	PIPE	UPC	UNIFORM PLUMBING CODE
EW	EACHWAY	PC	POINT OF CURVATURE, PIECE		
F		PCC	PRECAST CONCRETE	٧	
FC	FACE OF CURB	PED	PEDESTAL	VB	VALVE BOX
FD	FLOOR DRAIN	PER	PERIMETER	VERT	VERTICAL
FF	FINISHED FLOOR	PERF	PERFORATE (D)	W	
FH	FIRE HYDRANT, FLAT HEAD	PI	POINT OF INTERSECTION	W	WEST
FIN FM	FINISH (ED) FORCE MAIN SEWER	PLWD PL	PLYWOOD PROPERTY LINE, PLATE	₩/	WITH
FND	FOUNDATION	PROJ	PROJECT	WĎ	WOOD
FT	FOOT	PRV	PRESSURE REDUCING VALVE	WELDMT	WELDMENT
FTG	FOOTING	PSI	POUND PER SQUARE INCH	WL	WATERLINE
FL	FLOWLINE	PT	POINT, PRESSURE TREATED,	WV	WATER VALVE
G			POINT OF TANGENCY	W/O	WITHOUT
GAL	GALLON	PVC	POINT OF VERTICAL CURVATURE,	Χ	
GALV	GALVANIZED	Q	POLY VINYL CHLORIDE	XFMR	TRANSFORMER
GB	GRADE BREAK	QTY	QUANTITY	<pt< td=""><td>ANGLE POINT</td></pt<>	ANGLE POINT
GPM	GALLONS PER MINUTE	4		- '	
GRD	GROUND				

GENERAL NOTES

- 1. CONTRACTOR SHALL INSTALL TEMPORARY DEVICES CONSISTING OF BUT NOT LIMITED TO STRAW BALES, FILTER FABRIC FENCES, SETTLING POND, ETC., TO PROHIBIT SILT LADEN DEWATERING EFFLUENT AND OTHER CONSTRUCTION RUNOFF FROM ENTERING ADJACENT WATER BODIES. CONTRACTOR IS RESPONSIBLE FOR THE QUALITY OF THE DEWATERING EFFLUENT AND OTHER CONSTRUCTION RUNOFF THAT ENTERS ADJACENT WATER BODIES AND IS, THEREFORE, RESPONSIBLE FOR VIOLATIONS AND PENALTIES FROM HIS OPERATIONS. SWPPP REQUIRED PER SECTION 01570.
- 2. PROPERTY DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO ITS PRE-CONSTRUCTION CONDITION OR BETTER AT NO ADDITIONAL COST.
- 3. EXISTING UTILITIES & DRAIN PIPE LOCATIONS ARE DERIVED FROM WRANGELL AS-BUILTS OR FIELD LOCATES. ACTUAL LOCATIONS WILL VARY FROM THOSE SHOWN. DEPTH OF EXISTING PIPES SHOWN ON ELEVATIONS ARE ASSUMED. DIAL BEFORE YOU DIG.
- 4. GRADING, STRUCTURES & FINAL SURFACING ARE SUBJECT TO MINOR REVISIONS BY THE ENGINEER TO FIT SITE CONDITIONS. GRADE ALL IMPROVEMENTS WITH POSITIVE DRAINAGE AWAY FROM STRUCTURES. (INCIDENTAL)

LEGEND

EXISTING	PROPOSED		EXISTING	PROPOSED	
- X - X - X	—— GB · · · ——	CENTERLINE EDGE ACP OR GRAVEL ROADWAY FENCE OVERHEAD ELECTRIC LINE PROPERTY LINE UNDERGROUND ELECTRIC UNDERGROUND SANITARY SEWER LINE UNDERGROUND STORM DRAIN PIPE ABANDONED UNDERGROUND STORM DRAIN PIPE UNDERGROUND WATER LINE GRADE BREAK SAWCUT AND EXISTING CONCRETE DEMOLITION LIMITS	 ✓ wv ✓ \$SSMH C/O Þ P TR 	4	RAISE KEY BOX/WATER VALVE LIGHT POLE OR PILE MOUNTED LIGHT RADIUS TO LOCATION SHOWN (FEET) SANITARY SEWER MANHOLE SANITARY SEWER CLEANOUT SIGN STORM DRAIN MANHOLE W/ CONC. AREA DRAIN TELEPHONE RISER
● E XFMR		SET SPIKE OR PK NAIL SURVEY MONUMENT STORM DRAIN INLET ELECTRICAL PEDESTAL ELECTRICAL TRANSFORMER FIRE HYDRANT GUY ANCHOR UTILITY POLE	+ \25,2	319 N	TREE(S) GROUND SPOT ELEVATION (MLLW) LAYOUT POINT DETAIL REFERENCE, INDICATES POINT AND DIRECTION OF REQUIRED SECTION.
	Н	ELECTRICAL HANDHOLE			

	REVISIONS						
REV.	DATE	DESCRIPTION	DWN.	CKD.	APP.		



DESIGN. PLR CHECKED. PLR

DRAWN, KLL/WRB APPROVED, CRS

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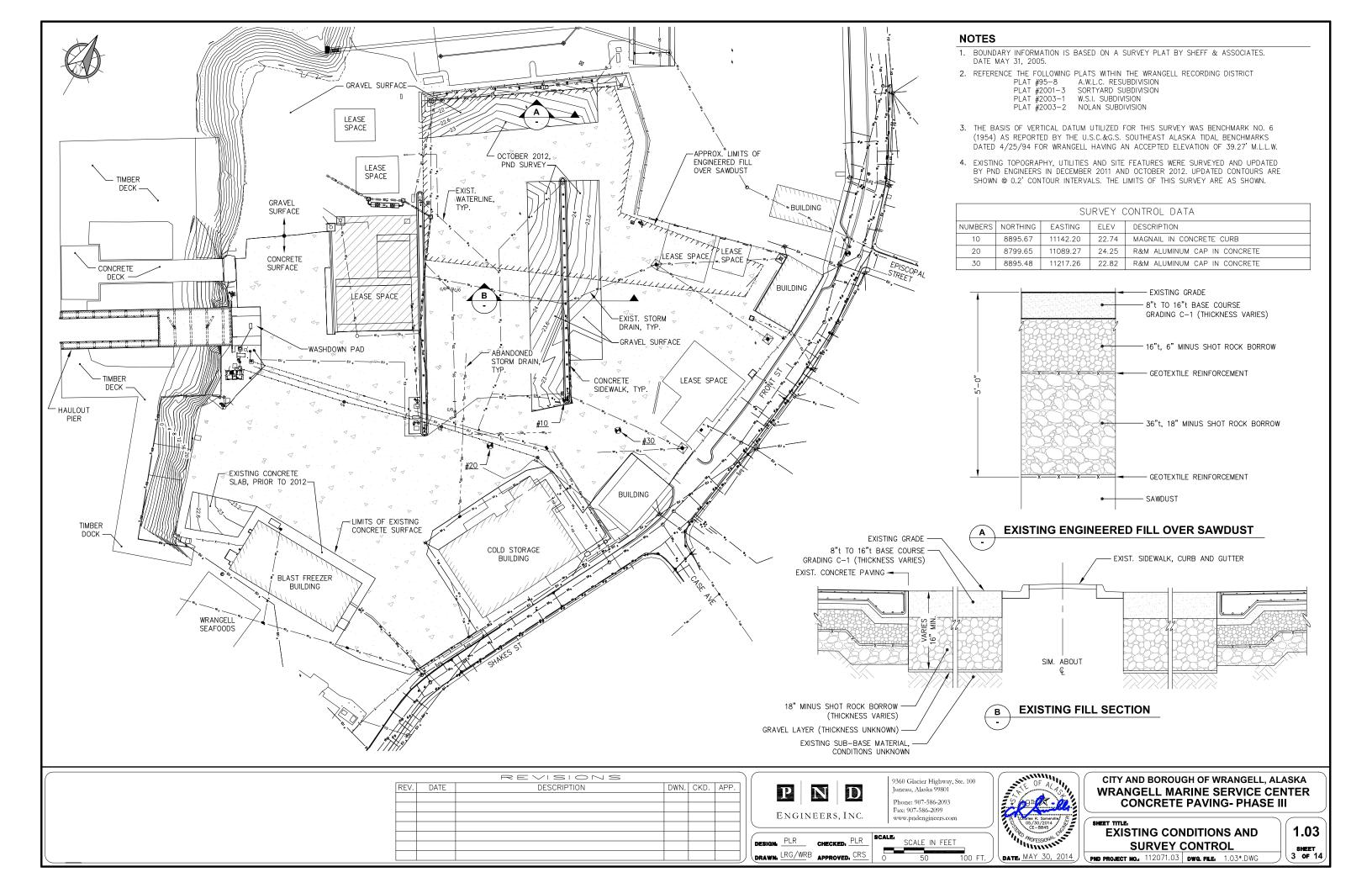


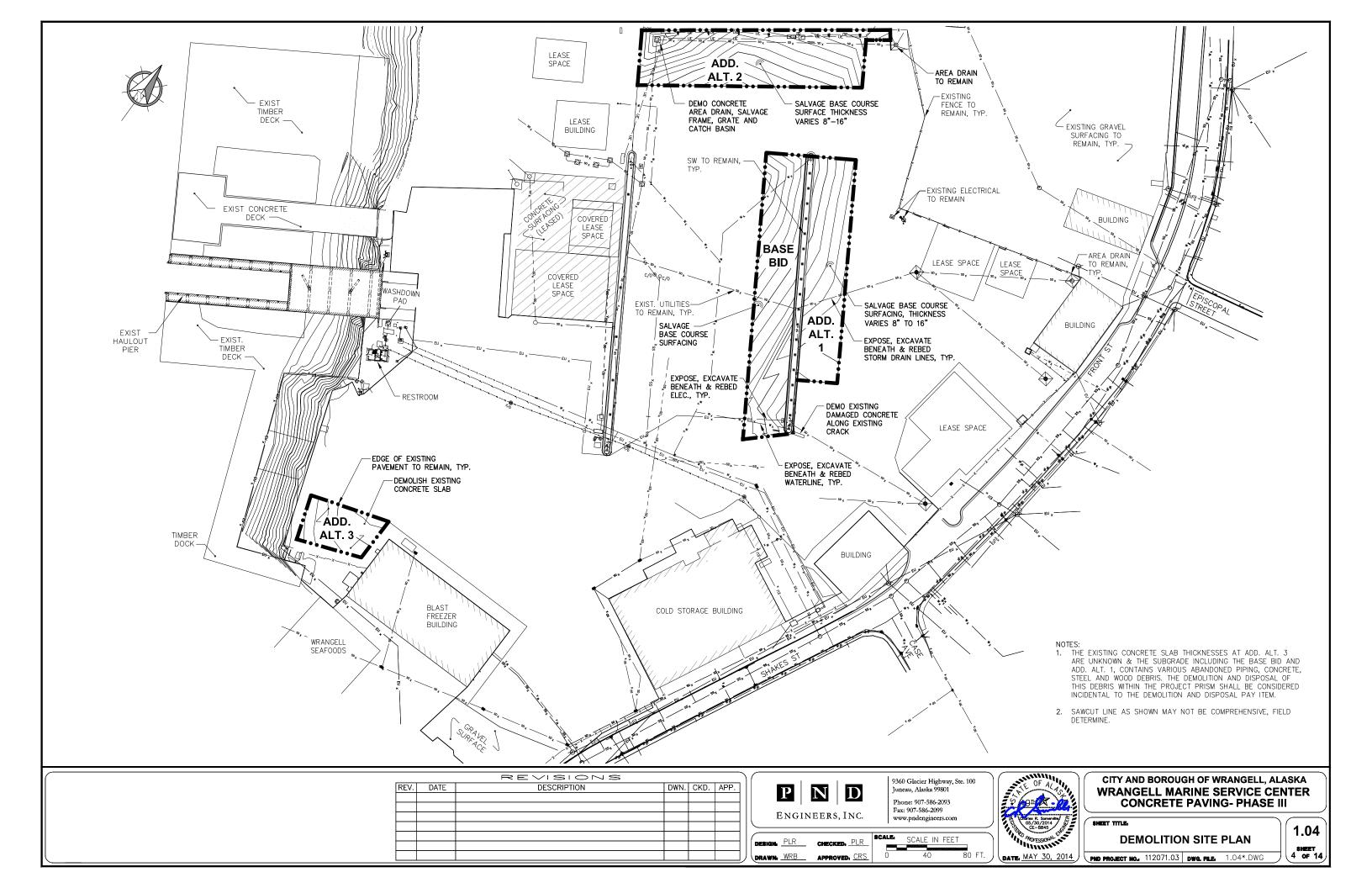
CITY AND BOROUGH OF WRANGELL, ALASKA
WRANGELL MARINE SERVICE CENTER
CONCRETE PAVING- PHASE III

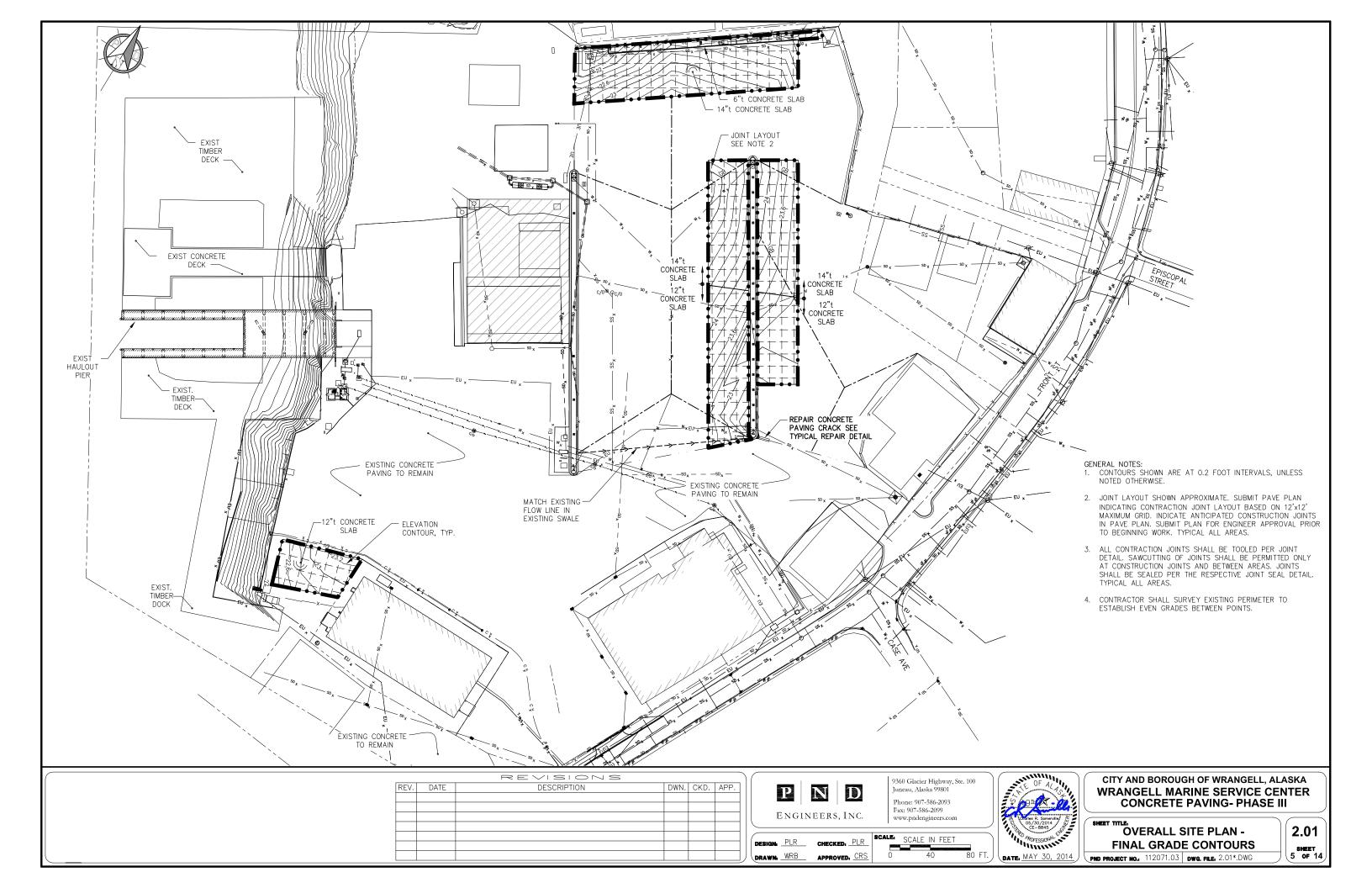
LEGEND, ABBREVIATIONS
& GENERAL NOTES

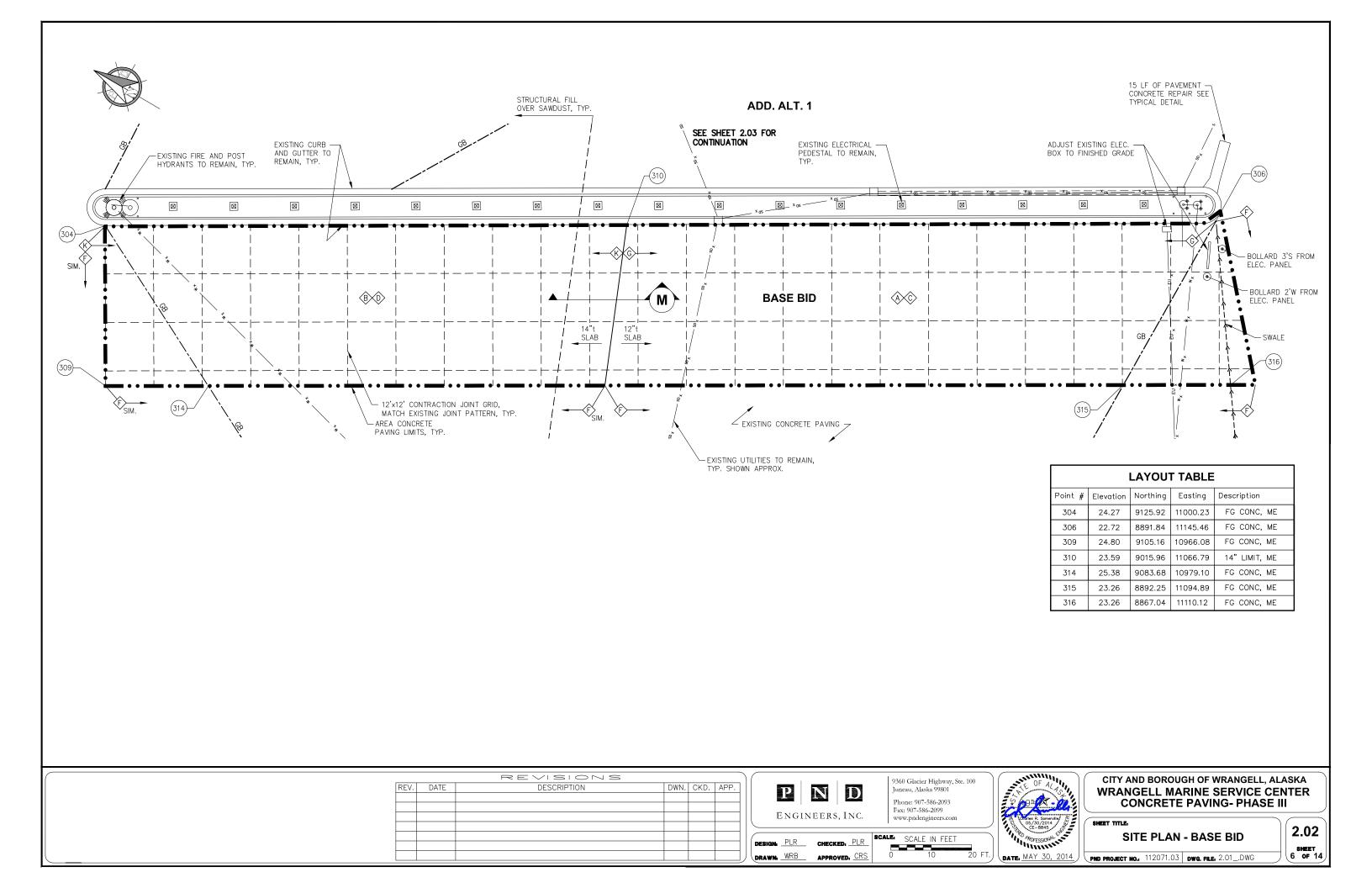
PND PROJECT NO. 112071.03 DWG. FILE. 1.02*.DWG

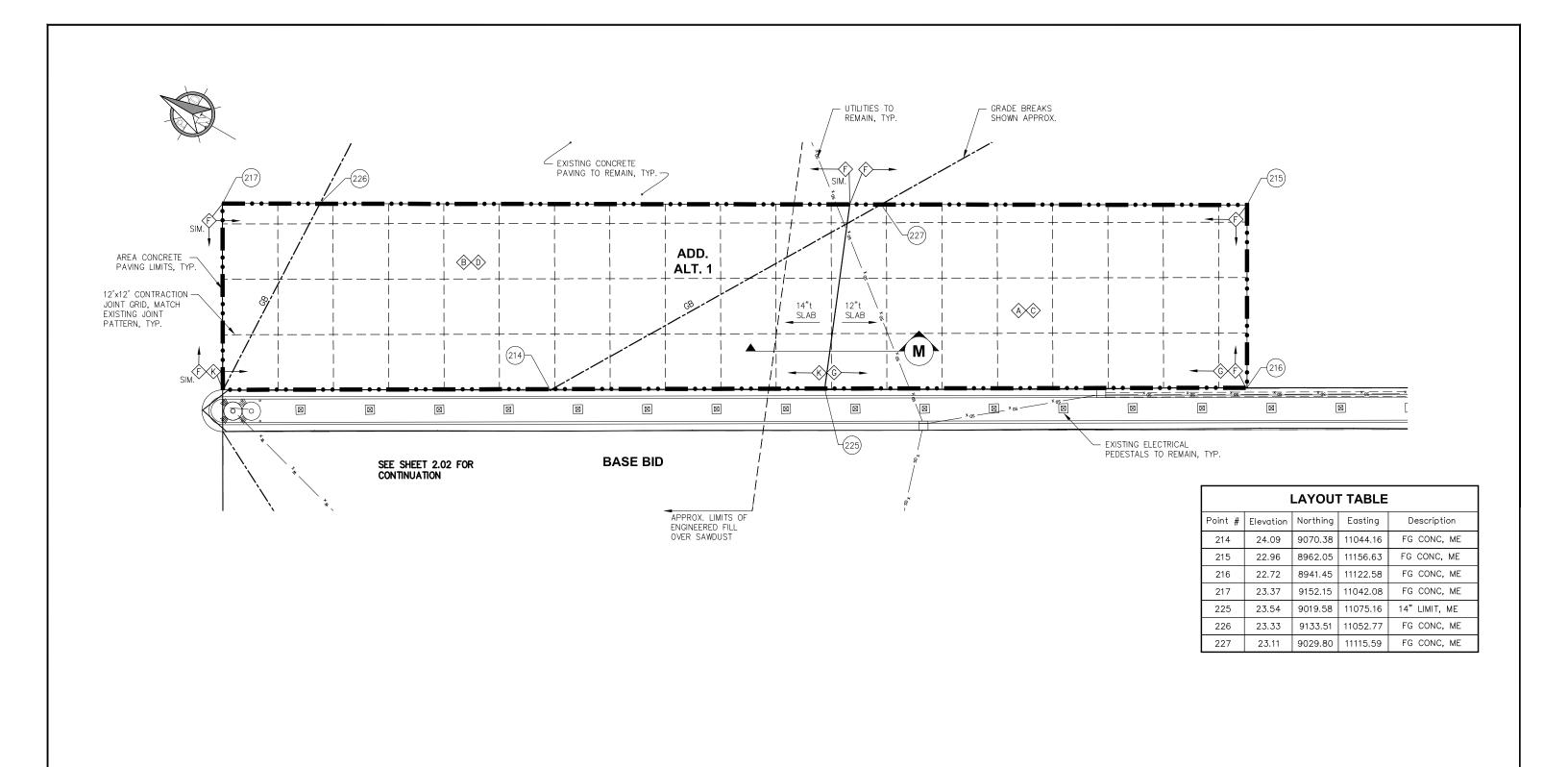
1.02 SHEET 2 OF 14

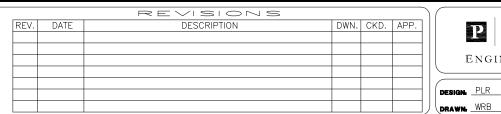














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APPROVED: CRS

9360 Glacier Highway, Ste. 100 Juneau, Alaska 99801 www.pndengineers.com SCALE IN FEET

Phone: 907-586-2093

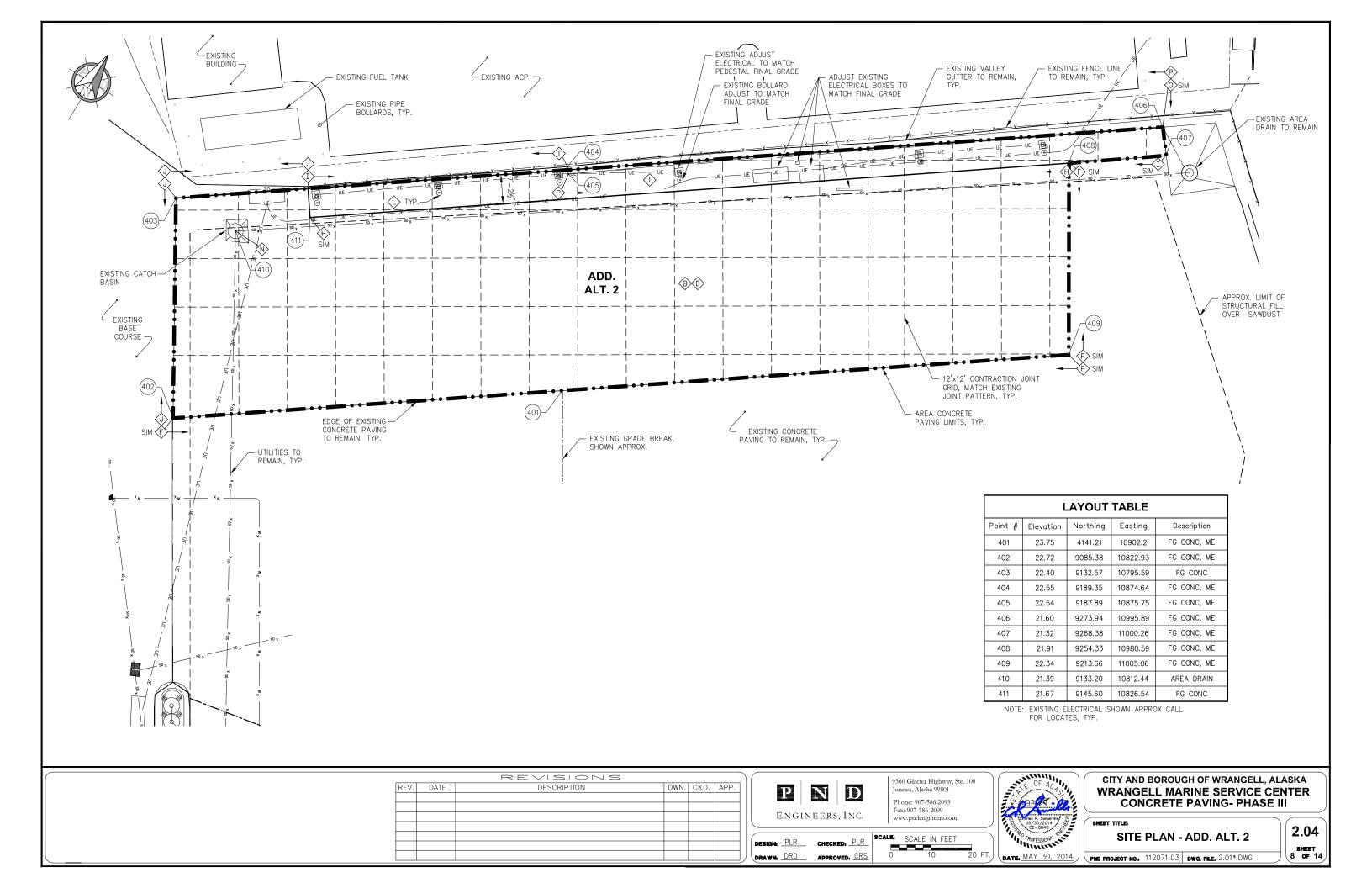
Fax: 907-586-2099

us/30/2014 DATE: MAY 30, 2014 PND PROJECT NO.: 112071.03 DWG. FILE: 2.01_.DWG

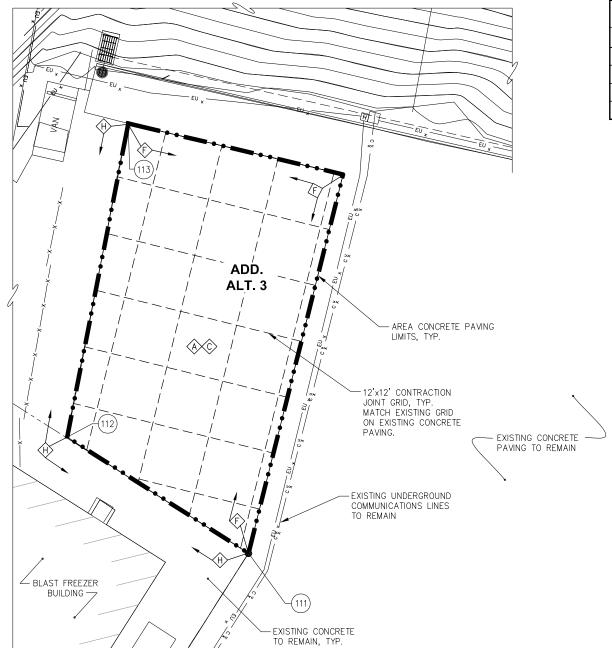
CITY AND BOROUGH OF WRANGELL, ALASKA WRANGELL MARINE SERVICE CENTER **CONCRETE PAVING- PHASE III**

SITE PLAN - ADD. ALT. 1

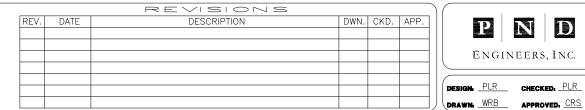
2.03 SHEET 7 OF 14







LAYOUT TABLE								
Point #	Elevation	Northing	Easting	Description				
111	23.28	8590.44	10876.36	FG CONC, ME				
112	22.88	8545.60	10875.13	FG CONC, ME				
113	22.19	8522.77	10812.65	FG CONC, ME				
122	22.45	8566.58	10798.42	FG CONC, ME				





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SCALE IN FEET



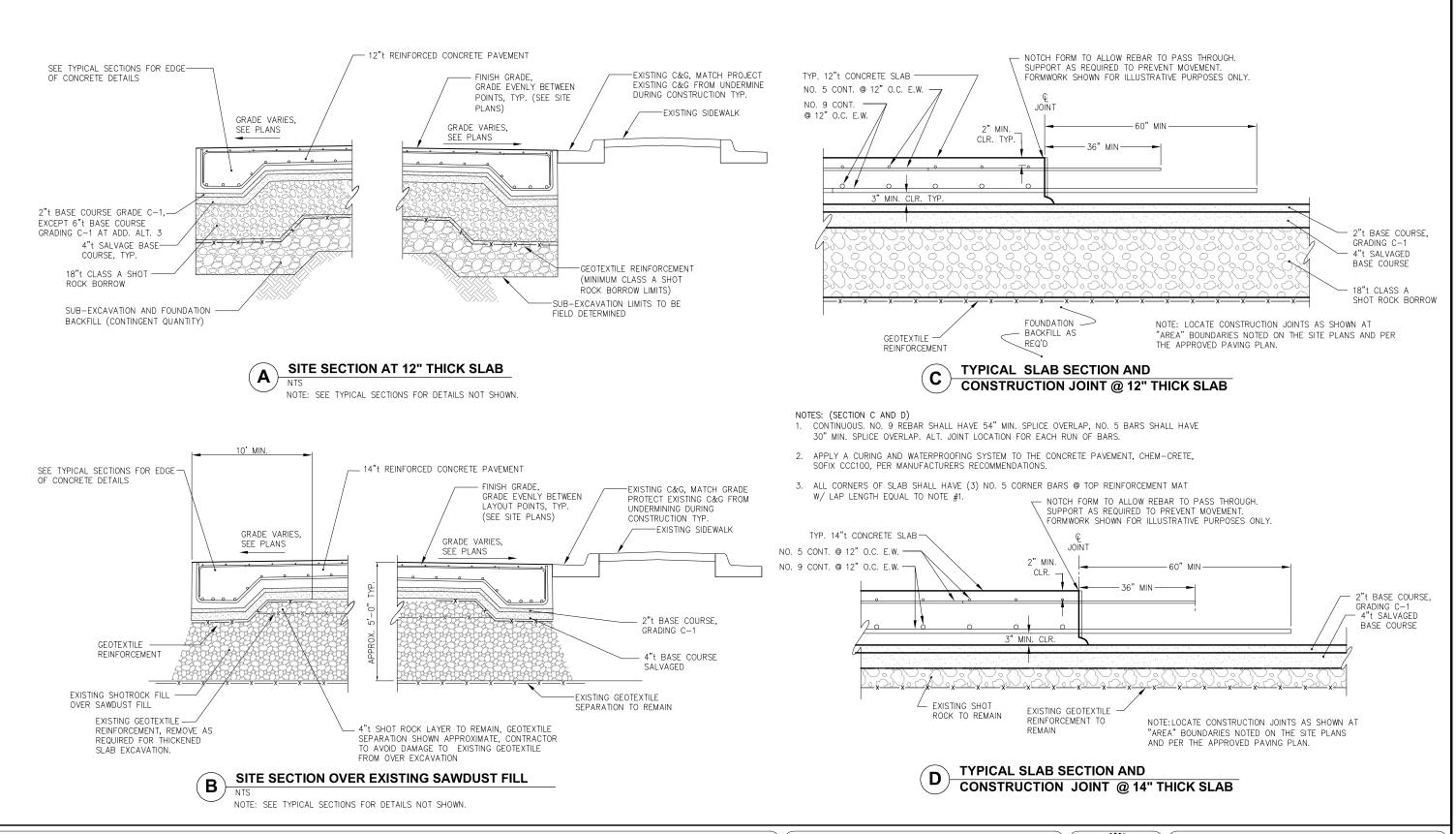
CITY AND BOROUGH OF WRANGELL, ALASKA WRANGELL MARINE SERVICE CENTER **CONCRETE PAVING- PHASE III**

SITE PLAN - ADD. ALT. 3

SHEET 9 OF 14

2.05

PND PROJECT NO.: 112071.03 DWG. FILE: 2.01_.DWG



REVISIONS

REV. DATE DESCRIPTION DWN. CKD. APP.

PND

ENGINEERS, INC.

CHECKED: PLR

APPROVED: CRS

DESIGN. MDS

DRAWN. WRB

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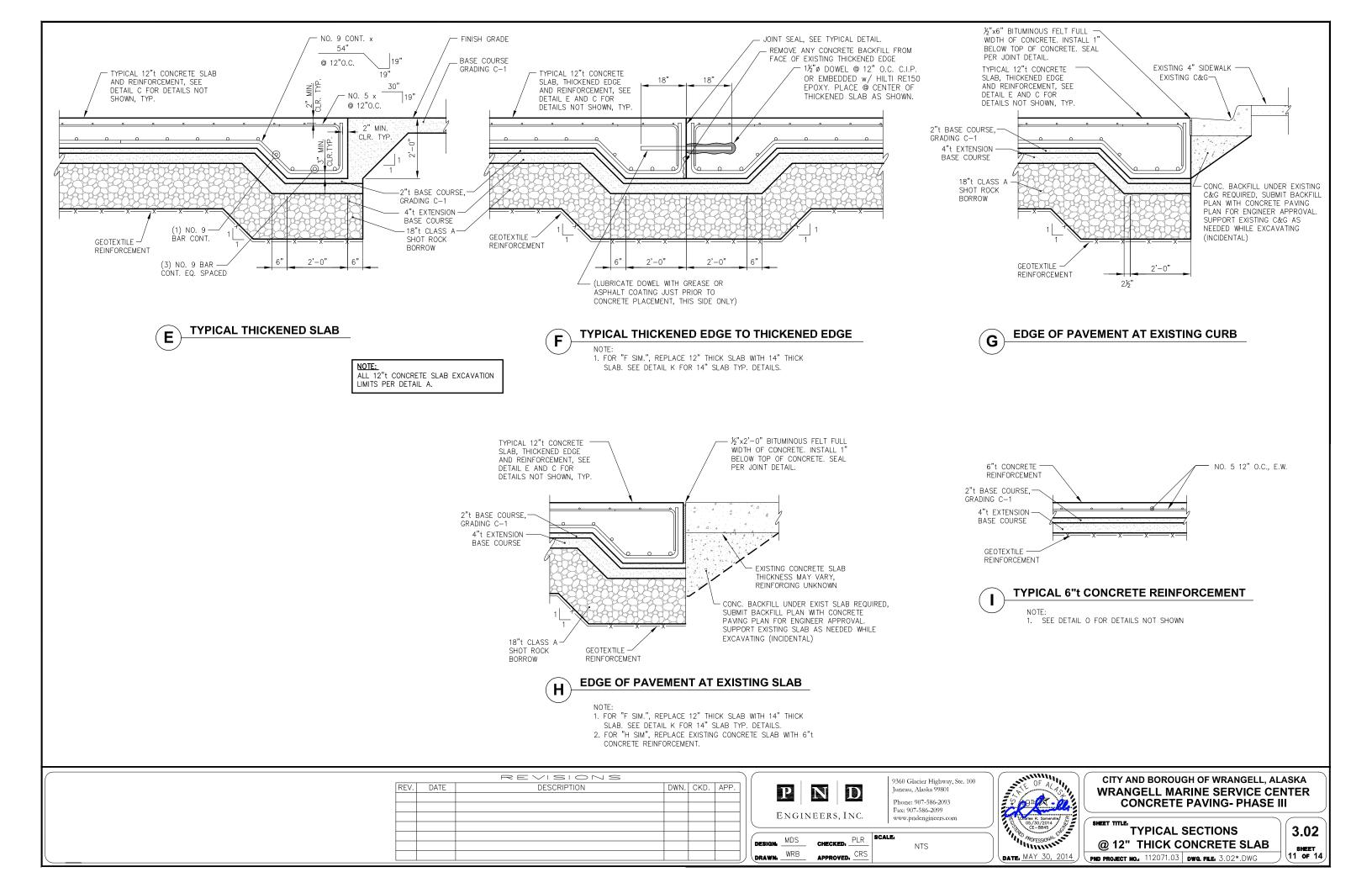
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WRANGELL MARINE SERVICE CENTER
CONCRETE PAVING- PHASE III

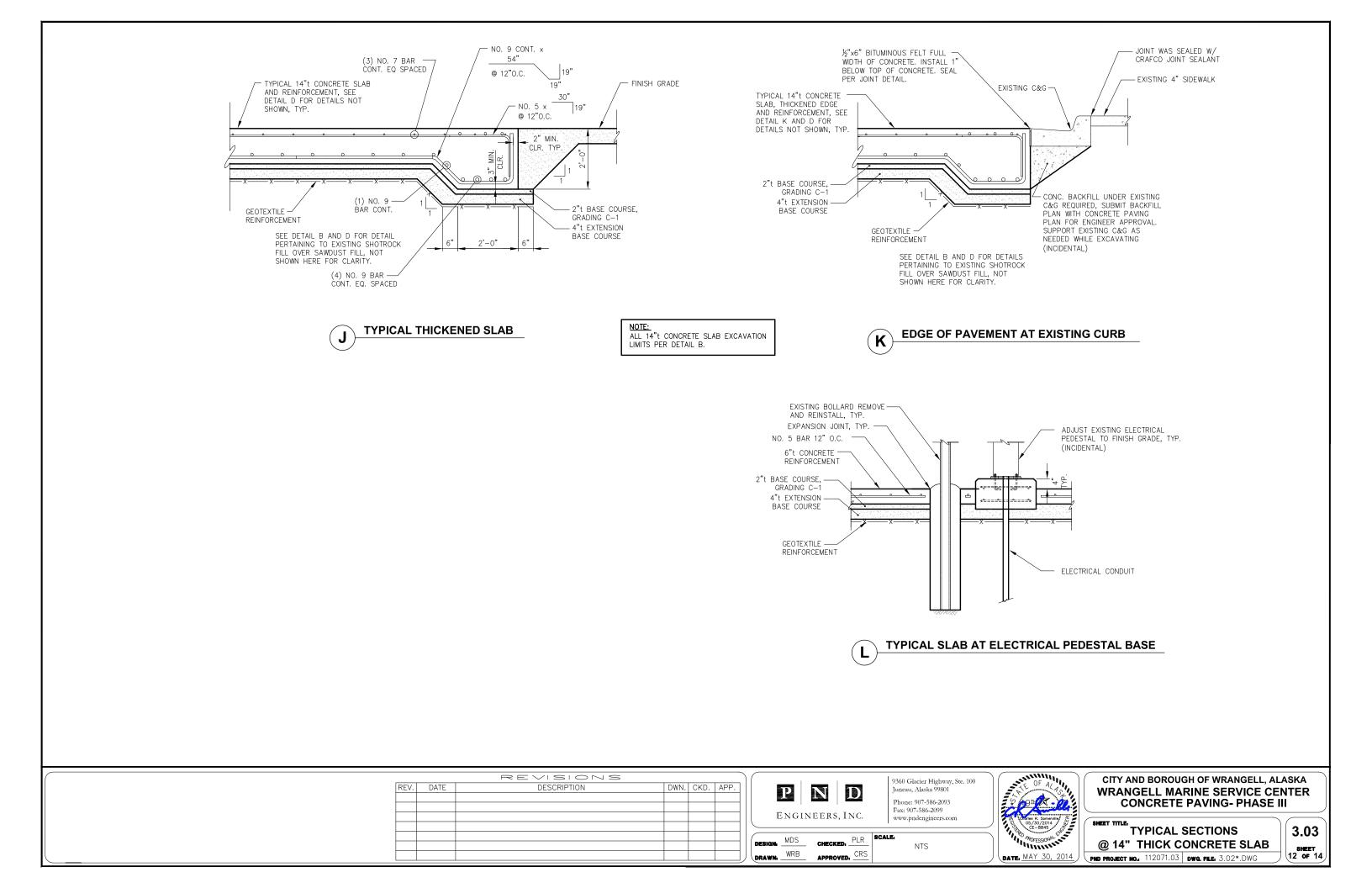
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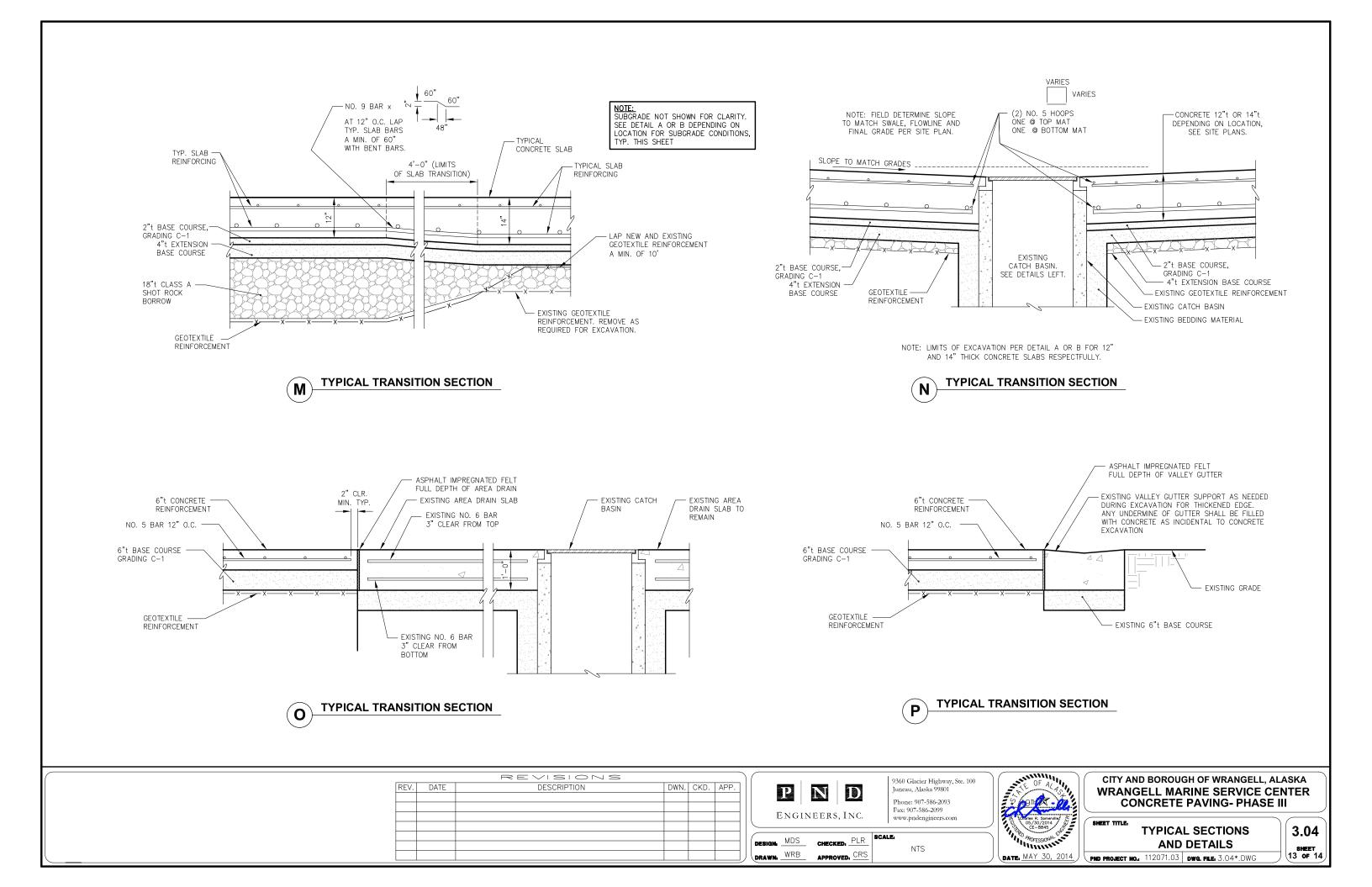
SITE SECTIONS

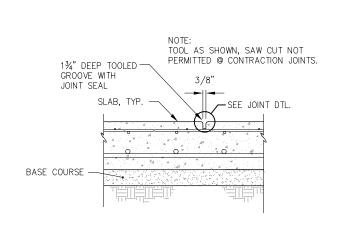
PND PROJECT NO.: 112071.03 DWG. FILE: 3.01*.DWG

3.01 SHEET 10 OF 14

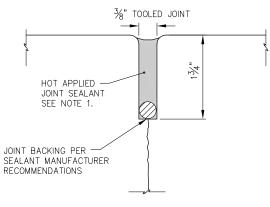








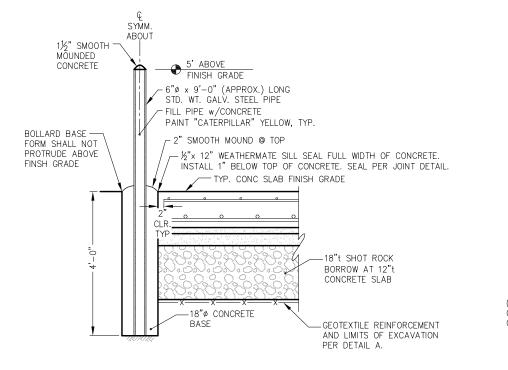
CONCRETE PAVEMENT - CONTRACTION JOINT



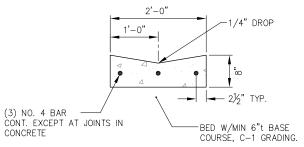
- JOINT SEALANT SHALL BE HOT APPLIED CRAFCO, INC ROADSAVER 221 OR APPROVED EQUAL.

 TOP OF SEALANT SHALL BE 1/4" TO 1/2" BELOW TOP
- OF PAVEMENT. REMOVE EXCESS SEALANT IF OVERSPILL OCCURS.

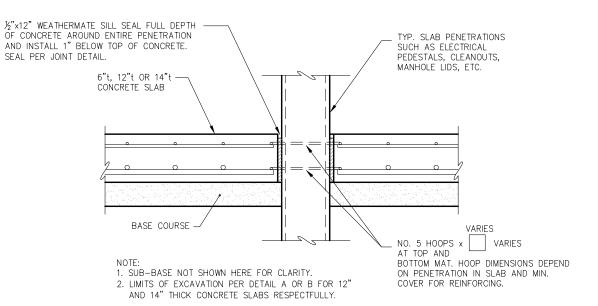
CONTRACTION / CONSTRUCTION JOINT DETAIL



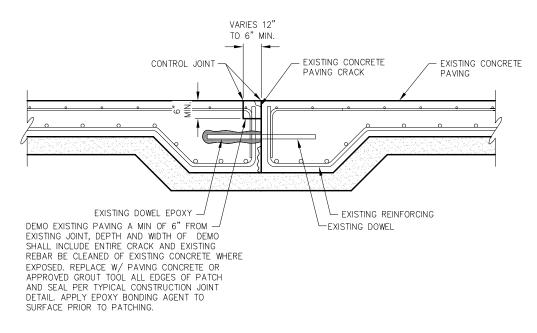




TYPICAL EXISTING VALLEY GUTTER **SECTION**

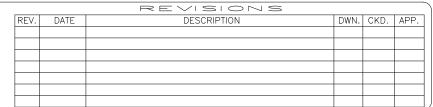


TYPICAL SLAB PENETRATION LESS THAN 24"Ø



TYPICAL CONCRETE **PAVING REPAIR DETAIL**

STATISTICAL OF ALLIA





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APPROVED: CRS

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www.pndengineers.com NTS DATE, MAY 30, 2014

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TYPICAL SECTIONS AND DETAILS

PND PROJECT NO.: 112071.03 DWG. FILE: 3.02*.DWG

3.05 14 of 14