



# Contract Plans

**For Construction of:**

009321

**SR 525**

## **MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION**

SNOHOMISH COUNTY

VOLUME 2 OF 8

F. A. NO. TIGER-WA-2017-007, CFDA 20933  
F. A. NO. PSRC-WA-2017-023, CFDA 20507



**Washington State  
Department of Transportation**



VOLUME 2 SHEET INDEX

SHT NO.	PLAN NO.	DESCRIPTION
INDEX		
4	10.03	COVER SHEET VOLUME 2 SHEET INDEX
SITE WORK - CONT		

227	C09.00	IRRIGATION SCHED, ABBREVIATIONS, LEGENDS, DETAIL, & NOTES
228	C09.10	IRRIGATION PLAN
229	C09.11	IRRIGATION PLAN
230	C09.12	IRRIGATION PLAN
231	C09.13	IRRIGATION PLAN
232	C09.14	IRRIGATION PLAN
233	C09.15	IRRIGATION PLAN
234	C09.16	IRRIGATION PLAN
235	C09.20	IRRIGATION DETAILS
236	C09.21	IRRIGATION DETAILS
237	C09.22	IRRIGATION DETAILS
238	C09.40	PLANTING SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS
239	C09.41	PLANTING SCHEDULE
240	C09.50	PLANTING PLAN
241	C09.51	PLANTING PLAN
242	C09.52	PLANTING PLAN
243	C09.53	PLANTING PLAN
244	C09.54	PLANTING PLAN
245	C09.55	PLANTING PLAN
246	C09.56	PLANTING PLAN
247	C09.60	PLANTING DETAILS
248	C09.61	PLANTING DETAILS
249	C09.62	PLANTING DETAILS
250	C09.63	PLANTING PLAN ENLARGEMENT
251	C09.64	PLANTING ENLARGEMENTS
252	C10.10	PAVING PLAN
253	C10.11	PAVING PLAN
254	C10.12	PAVING PLAN
255	C10.13	PAVING PLAN
256	C10.14	PAVING PLAN
257	C10.15	PAVING PLAN
258	C10.16	PAVING PLAN
258A	C10.17	PAVING DETAILS
258B	C10.18	PAVING DETAILS
258C	C10.19	PAVING DETAILS
259	C10.20	ADA RAMP DETAILS
260	C10.21	ADA RAMP DETAILS
261	C10.22	ADA RAMP DETAILS
262	C10.23	ADA RAMP DETAILS
263	C10.24	ADA RAMP DETAILS
264	C10.25	ADA RAMP DETAILS
265	C10.26	ADA RAMP DETAILS
266	C10.27	ADA RAMP DETAILS
267	C10.28	ADA RAMP DETAILS
268	C10.29	ADA RAMP DETAILS
269	C10.30	ADA RAMP DETAILS
270	C10.31	ADA RAMP DETAILS
271	C11.10	PAVEMENT MARKING PLAN
272	C11.11	PAVEMENT MARKING PLAN
273	C11.12	PAVEMENT MARKING PLAN
274	C11.13	PAVEMENT MARKING PLAN
275	C11.14	PAVEMENT MARKING PLAN
276	C11.15	PAVEMENT MARKING PLAN
277	C11.16	PAVEMENT MARKING PLAN
278	C12.01	SIGNING NOTES

SHT NO.	PLAN NO.	DESCRIPTION
SITE WORK - CONT		
279	C12.02	SIGN REMOVAL SPECIFICATIONS
280	C12.03	SIGN REMOVAL SPECIFICATIONS
281	C12.04	SIGN INSTALLATION SPECIFICATIONS
282	C12.05	SIGN INSTALLATION SPECIFICATIONS
283	C12.06	SIGN INSTALLATION SPECIFICATIONS
284	C12.07	SIGN INSTALLATION SPECIFICATIONS
285	C12.10	SIGN REMOVAL PLAN
286	C12.11	SIGN REMOVAL PLAN
287	C12.12	SIGN REMOVAL PLAN
288	C12.13	SIGN REMOVAL PLAN
289	C12.14	SIGN REMOVAL PLAN
290	C12.15	SIGN REMOVAL PLAN
291	C12.16	SIGN REMOVAL PLAN
292	C12.17	SIGN REMOVAL PLAN
293	C12.40	SIGNING PLAN
294	C12.41	SIGNING PLAN
295	C12.42	SIGNING PLAN
296	C12.43	SIGNING PLAN
297	C12.44	SIGNING PLAN
298	C12.45	SIGNING PLAN
299	C12.46	SIGNING PLAN
300	C12.50	SIGN DETAILS
301	C12.51	SIGN DETAILS
302	C12.52	SIGN DETAILS
303	C12.53	SIGN DETAILS
304	C12.54	SIGN DETAILS
305	C12.55	SIGN DETAILS
306	C12.56	SIGN DETAILS
307	C13.00	URBAN DESIGN SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS
308	C13.10	URBAN DESIGN PLAN
309	C13.11	URBAN DESIGN PLAN
310	C13.12	URBAN DESIGN PLAN
311	C13.20	URBAN DESIGN DIMENSIONING PLAN
312	C13.21	URBAN DESIGN DIMENSIONING PLAN
313	C13.22	URBAN DESIGN DIMENSIONING PLAN
314	C13.30	URBAN DESIGN DETAILS
315	C13.31	URBAN DESIGN DETAILS
316	C13.32	URBAN DESIGN DETAILS
317		NOT USED
318		NOT USED
319		NOT USED
320	C15.10	RETAINING WALL 1 PLAN AND PROFILE
321	C15.11	RETAINING WALL 2 PLAN AND PROFILE
322	C15.14	RETAINING WALL 4 PLAN AND PROFILE
323	C15.15	RETAINING WALL 4 - CONTINUED PLAN AND PROFILE
324	C15.16	RETAINING WALL 5 PLAN AND PROFILE
325	C15.17	REINFORCED SLOPE 6 PLAN AND PROFILE
326	C15.18	REINFORCED SLOPE 6 - CONTINUED PLAN AND PROFILE
327	C15.19	RETAINING WALL 7 PLAN AND PROFILE
328	C15.20	SE WALLS - TYPICAL SECTIONS
329	C15.21	PROMENADE SE WALLS TYPICAL SECTION
330	C15.22	REINFORCED SLOPE SECTION & DETAILS
331	C15.23	SOLDIER PILE WALL DETAILS 1
332	C15.24	SOLDIER PILE WALL DETAILS 2
333	C15.25	MOMENT SLAB DETAILS 1
334	C15.26	MOMENT SLAB DETAILS 2
335	C15.27	MOMENT SLAB DETAILS 3
336	C15.28	WALL 4 - COMMUNICATIONS POLE SUPPORT DETAILS
337	C15.29	PEDESTRIAN RAILING DETAILS
338	C15.30	COPING DETAILS 1

SHT NO.	PLAN NO.	DESCRIPTION
SITE WORK - CONT		
339	C15.31	COPING DETAILS 2
340	C15.32	WALL 4 TO EQUIPMENT BUILDING JOINT CONNECTION
341	C15.33	PROMENADE RAILING DETAIL
341A	C15.34	WALL 5 OVERLOOK REINFORCEMENT TOC DETAILS
342	C16.00	SIGNALIZATION GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS
343	C16.10	SIGNALIZATION PLAN SR525 AND SR525 REALIGNMENT
344	C16.11	SIGNALIZATION INTERCONNECT
345	C16.12	SIGNALIZATION PLAN SR525 REALIGNMENT AND 1ST STREET
346	C16.20	SIGNALIZATION POLE DETAILS SR525 AND SR525 REALIGNMENT
347	C16.21	SIGNALIZATION POLE DETAILS SR525 REALIGNMENT AND 1ST ST
348	C16.30	SIGNALIZATION WIRING PLAN SR525 AND SR525 REALIGNMENT
349	C16.31	SIGNALIZATION WIRING PLAN SR525 REALIGNMENT AND 1ST STF
350	C16.50	CAMERA CABINET DETAILS
351	C16.51	TRAFFIC CAMERA DETAILS
352	E001.00	ELECTRICAL SYMBOLS I
353	E01.01	ELECTRICAL SYMBOLS II
354	E01.02	ELECTRICAL ABBREVIATIONS AND NOTES
355	E02.10	SITE ELECTRICAL PLAN
356	E02.11	SITE ELECTRICAL PLAN
357	E02.12	SITE ELECTRICAL PLAN
358	E02.13	SITE ELECTRICAL PLAN
359	E02.14	SITE ELECTRICAL PLAN
360	E02.15	SITE ELECTRICAL PLAN
361	E02.16	SITE ELECTRICAL PLAN
362	E03.00	SITE ELECTRICAL ONELINE DIAGRAM EXISTING/DEMO
363	E03.01	SITE ELECTRICAL ONELINE DIAGRAM EXISTING/DEMO
364	E03.10	SITE ELECTRICAL ONELINE DIAGRAM
365	E03.20	SITE POWER DISTRIBUTION BLOCK DIAGRAM
366	E03.21	CONDUIT DUCT BANK DETAILS
367	E03.22	ELECTRICAL VAULT DETAILS
368	E03.23	SITE ELECTRICAL SECTION DETAILS

SITE ELECTRICAL

369	E03.31	CONDUIT DUCT BANK DETAILS
370	E03.34	NETWORK CABINET DETAILS
371	E03.36	SITE COMMUNICATIONS BARRIER WALL CONDUIT DETAILS
372	E03.37	COMMUNICATIONS POLE DETAILS
373	E06.00	SITE ELECTRICAL PANEL SCHEDULES
374	E06.01	SITE ELECTRICAL PANEL SCHEDULES
375	E06.02	SITE ELECTRICAL PANEL SCHEDULES
376	E06.03	SITE ELECTRICAL PANEL SCHEDULES
377	E07.00	SITE ILLUMINATION FIXTURE SCHEDULE
378	E07.01	SITE ILLUMINATION FIXTURE SCHEDULE
379	E08.00	SITE ILLUMINATION ONELINE DIAGRAM
380	E08.10	SITE ILLUMINATION PLAN
381	E08.11	SITE ILLUMINATION PLAN
382	E08.12	SITE ILLUMINATION PLAN
383	E08.13	SITE ILLUMINATION PLAN
384	E08.14	SITE ILLUMINATION PLAN
385	E08.15	SITE ILLUMINATION PLAN
386	E08.16	SITE ILLUMINATION PLAN
387	E09.00	ILLUMINATION POLE FOUNDATION SCHEDULE AND DETAILS
388	E09.01	ILLUMINATION POLE TYPES AND DETAILS
389	E10.00	SITE ELECTRICAL CONDUIT AND CABLE SCHEDULE
390	E10.01	SITE ILLUMINATION CONDUIT AND CABLE SCHEDULE
391	E10.02	SITE ILLUMINATION CONDUIT AND CABLE SCHEDULE
392	E10.30	SITE COMMUNICATIONS CONDUIT SCHEDULE
393	E12.12	SITE COMMUNICATIONS PLAN
394	E12.13	SITE COMMUNICATIONS PLAN
395	E12.14	SITE COMMUNICATIONS PLAN
396	E12.15	SITE COMMUNICATIONS PLAN
397 - 838		NOT USED



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

VOLUME 2 SHEET INDEX

10.03

SHEET  
4  
OF  
1521  
SHEETS

FILE NAME: PW:\WSF\Mukilteo\14W121_FerryTermConst\CADD\KPFF\18w121i000.03.dwg					
PRINTED: 9:18:28 AM 1/11/2019	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19	R. JACKSON				WA-2017-007-00
DESIGNED BY: A. GASTINEAU	1/18/19				REGION NO. STATE
ENTERED BY: R. JACKSON	1/18/19				10 WASH
CHECKED BY: D. ALIRE	1/18/19				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19		CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****

/ /2017



IRRIGATION SCHEDULE

DETAIL SYM SIZE/REMARKS

3  
C09.21 SWING ARM AND HEAD ASSEMBLY

SYMBOL	DESCRIPTION	RADIUS	PRESSURE	GPM + 10%
	RAINBIRD RD-12-S-P30-F-MPR-10Q	10'	30	0.43
	RAINBIRD RD-12-S-P30-F-MPR-10H	10'	30	0.87
	RAINBIRD RD-12-S-P30-F-MPR-12Q	12'	30	0.72
	RAINBIRD RD-12-S-P30-F-MPR-12H	12'	30	1.43
	RAINBIRD RD-12-S-P30-F-MPR-12F	12'	30	2.87
	RAINBIRD RD-12-S-P30-F-MPR-15Q	15'	30	1.01
	RAINBIRD RD-12-S-P30-F-MPR-15H	15'	30	2.03
	RAINBIRD RD-12-S-P30-F-MPR-15F	15'	30	4.07
	RAINBIRD RD-12-S-P45-F-RVAN-1318-Q	13'-18'	45	0.55
	RAINBIRD RD-12-S-P45-F-RVAN-1318-H	13'-18'	45	1.11
	RAINBIRD RD-12-S-P45-F-RVAN-1318-270	13'-18'	45	1.66
	RAINBIRD RD-12-S-P45-F-RVAN-1724-H	17'-24'	45	2.01
	RAINBIRD RD-12-S-P30-F-15EST	4' X 15'	30	0.67
	RAINBIRD RD-12-S-P30-F-15SST	4' X 30'	30	1.33
	RAINBIRD RD-12-S-P30-F-9SST	9' X 18'	30	1.90
	RAINBIRD 1812-SAM-PRS-U8H	8'	30	0.57
	RAINBIRD 1812-SAM-PRS-U15Q	15'	30	1.01
	RAINBIRD 1812-SAM-PRS-U15H	15'	30	2.04
	RAINBIRD 1812-SAM-PRS-U15T	15'	30	1.35

IRRIGATION ABBREVIATIONS

#/NO	NUMBER
%	PERCENT
&	AND
CL	CENTER LINE
CLR	CLEAR
CONSTR	CONSTRUCTION
DIAM	DIAMETER
DWG(s)	DRAWING(s)
ENGR	ENGINEER
EXIST	EXISTING
GPM	GALLONS PER MINUTE
MAX	MAXIMUM
OC	ON CENTER
MIN	MINIMUM
PSI	POUNDS PER SQUARE INCH
POC	POINT OF CONNECTION
PVC	POLYVINYL CHLORIDE
R/W	RIGHT OF WAY
SCHED	SCHEDULE
SPEC(s)	SPECIFICATION(s)
SYM	SYMBOL
TYP	TYPICAL

IRRIGATION LEGEND

SYM REMARKS

X  
C09.20 DETAIL IDENTIFICATION

LATERAL PIPE SIZE LEGEND

SYM REMARKS

1" LATERAL LINE  
1-1/2" LATERAL LINE  
2" LATERAL LINE

DETAIL SYM SIZE/REMARKS

5  
C09.20 PIPE SLEEVE (SCHD 80 PVC); SIZE SHOWN ON DWGs

6  
C09.20 2" MAINLINE (SCHD 40 PVC)

LATERAL LINE (SCHD 40 PVC); SIZE SHOWN ON DWGs PER LATERAL PIPE SIZE LEGEND

2  
C09.20 3/4" MANUAL DRAIN VALVE; PROVIDE OWNER WITH TWO (2) VALVE KEYS

1  
C09.20 QUICK COUPLING VALVE; PROVIDE OWNER WITH TWO (2) SETS OF THE FOLLOWING:  
COUPLER KEYS  
HOSE SWIVELS  
COVER KEYS

4  
C09.20 2" MANUAL GATE VALVE

1  
C09.00 3  
C09.22 POINT OF CONNECTION  
POC A - 1.5" METER WITH CONTROLLER A  
POC B - 1.5" METER WITH CONTROLLER B  
POC C (EXIST) - EXIST 1" METER WITH CONTROLLER AT SOUNDER STATION

1  
C09.22 RAINBIRD ESP-LXME SERIES IRRIGATION CONTROLLER OR RAINBIRD ESP12SATLS IRRIGATION CONTROLLER; CONTROLLER SHALL BE LOCATED AS SHOWN PLANS  
CONTROLLER A - RAINBIRD ESP-12LXME SERIES WITH 8 STATION EXPANSION MODULE ESP-LXSM-8, WITH IQ V3.0 CENTRAL CONTROL COMMUNICATION CARTRIDGE, AND WITH RAINBIRD LXMMSSPED STAINLESS STEEL PEDESTAL  
CONTROLLER B - RAINBIRD ESP24SATLS WITH RAINBIRD STAINLESS STEEL PEDESTAL, WITH CCU-28S COMMUNICATION CARTRIDGE WITH RAINBIRD STAINLESS STEEL PEDESTAL  
CONTROLLER C - EXIST HUNTER ICC-800, TO REMAIN

3  
C09.20 2" DOUBLE CHECK VALVE ASSEMBLY AND PRESSURE REDUCING VALVE PER CODE REQUIREMENTS

2  
C09.21 MASTER VALVE (NORMALLY OPEN) AND FLOW SENSOR

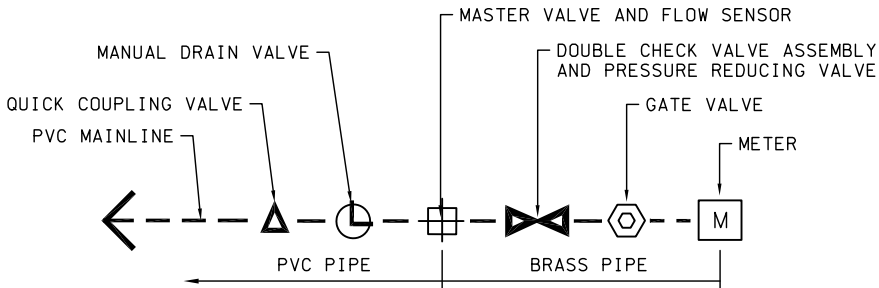
M IRRIGATION WATER METER, SEE COMPOSITE UTILITY DWGs

1  
C09.21 GPM XX 1X X" CIRCUIT NO. VALVE SIZE  
AUTOMATIC CONTROL VALVE WITH SIZE, RAINBIRD PEB SERIES

1  
C09.21 GPM XX XC X" CIRCUIT NO. VALVE SIZE  
AUTOMATIC CONTROL VALVE WITH SIZE, RAINBIRD EFB-CP SERIES; CONNECT TO EXIST IRRIGATION SYSTEM TO REMAIN AT SOUNDER STATION, SEE PLANS

2  
C09.22 J TYPE I JUNCTION BOX

IRRIGATION DETAIL



1  
C09.00 POINT OF CONNECTION  
NOT TO SCALE

IRRIGATION NOTES

- LOSS OF PRESSURE DUE TO PIPE FITTINGS AND FRICTION HAS BEEN COMPENSATED FOR BY ADDING TEN (10) PERCENT TO THE MANUFACTURER'S RATED GPM FOR EACH NOZZLE.
- CONTRACTOR SHALL LOCATE AND MARK QUICK COUPLING VALVES AND AUTOMATIC CONTROL VALVES IN SHRUB/GROUNDCOVER AREAS AT POINT OF EASY ACCESS. ENGR TO REVIEW AND APPROVE FINAL LOCATION OF ALL QUICK COUPLERS AND AUTOMATIC CONTROL VALVES PRIOR TO INSTALLATION.
- HEAD LOCATIONS MUST BE ADJUSTED IN THE FIELD TO COMPLY WITH EXIST SITE CONDITIONS, AVOIDING SPRAY BLOCKAGE AND CONFLICTS WITH PLANT MATERIALS, BEACH LOGS, BOULDERS, MODULAR WETLAND SYSTEMS, AND ANY OTHER ITEMS DEEMED APPROPRIATE BY THE ENGR BASED UPON FIELD REVIEW AND APPROVAL.
- DESIGN STATIC PSI AT IRRIGATION METER IS 110 PSI. PRIOR TO INSTALLATION OF IRRIGATION SYSTEM, CONTRACTOR SHALL FIELD VERIFY EXIST PSI. NOTIFY ENGR OF ANY DISCREPANCIES BETWEEN THE DESIGN PSI AND EXIST PSI PRIOR TO PROCEEDING WITH WORK.
- IRRIGATION CONTRACTOR SHALL COORDINATE IRRIGATION SLEEVING LOCATIONS WITH GENERAL CONTRACTOR. SLEEVING OR OTHER IRRIGATION EQUIPMENT SHALL NOT PENETRATE MODULAR WETLAND SYSTEMS.
- DRAWING IS SCHEMATIC. ACTUAL LOCATIONS MAY VARY DUE TO PLANT MATERIALS, UTILITIES OR EXIST CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTR.
- ALL IRRIGATION SLEEVING TO BE STAKED IN THE FIELD AND LOCATED ON DIMENSIONED "AS-BUILT" DRAWING TO ALLOW FUTURE LOCATION AND USE.
- AIR BLOW IRRIGATION SYSTEM THROUGH QUICK COUPLERS TO WINTERIZE IRRIGATION SYSTEM.
- CONTRACTOR SHALL DOCUMENT WORKING ORDER OF EXIST IRRIGATION SYSTEM AT SOUNDER STATION PRIOR TO BEGINNING CONSTR. CONTRACTOR SHALL COORDINATE WITH SOUND TRANSIT TO TEMPORARILY TURN WATER OFF FOR EXIST IRRIGATION SYSTEM PRIOR TO INSTALLATION OF NEW SYSTEM. EXIST PLANTS SHALL BE WATERED MANUALLY BY THE CONTRACTOR DURING PERIOD THAT SYSTEM IS SHUT OFF. ANY PLANTS THAT DIE OR ARE 25% OR MORE DEAD SHALL BE REPLACED BY THE CONTRACTOR, WITH ALL COSTS BORNE BY THE CONTRACTOR. CONTRACTOR IS RESPONSIBLE FOR RESTORING THE EXIST IRRIGATION SYSTEM DAMAGED BY CONSTR, SEE SPEC SECTION 8-03 AND SHEETS C09.11 & C09.13. CONTRACTOR IS RESPONSIBLE FOR TURNING SYSTEM BACK ON, AND VERIFYING IN THE PRESENCE OF THE ENGR & SOUND TRANSIT THAT NO LEAKS ARE PRESENT AT AREAS DISTURBED AND RESTORED BY CONSTR. SEE SPEC SECTION 8-03 FOR ADDITIONAL IRRIGATION TESTING REQUIREMENTS.
- WHERE PIPE SIZES ARE NOT SHOWN ON THE PLAN, PIPE SHALL BE SIZED TO THE NEXT LARGEST PIPE SIZE SHOWN UPSTREAM ON THE PLAN.



FILE NAME: P:\WSF\Mukilteo\14W121_FERRYTERMCONSTR\CADD\HBB\14W121c09_00.dwg				
PRINTED: 1:31:54 PM	1/15/2019	LAST PRINTED BY: DCRAWFORD		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19				WA-2017-007-00
DESIGNED BY: J. VONG	1/18/19			REGION NO. STATE
ENTERED BY: B. HADDOX	1/18/19			10 WASH
CHECKED BY: D. KOONTZ	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY
				00*****



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION SCHED, ABBREVIATIONS,  
LEGENDS, DETAIL, & NOTES

C09.00  
SHEET  
227  
OF  
1521  
SHEETS



NOTES:

- 1. LOCATE MAINLINE AND LATERAL LINES ALONG EDGE OF PAVEMENT WITHIN PLANTING AREAS. AVOID UTILITIES, WALLS, TREES, AND OTHER EXISTING AND PROPOSED ELEMENTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
- 2. LIMITS OF IRRIGATED AREAS EQUAL TO LIMITS OF PLANTING, EXCLUDING BACK OF SIDEWALK, SEEDED AREAS, UNLESS OTHERWISE NOTED.
- 3. SEE DRAINAGE PLANS FOR LOCATIONS OF BIORETENTION CELLS AND DETAILS.

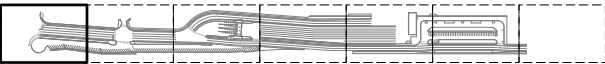
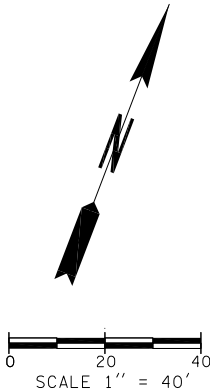
BEGIN PROJECT  
TF100+00=  
SR 525 2+82.23

SR 525

SR 525

CITY OF MUKILTEO PARKING

MATCH TO C09.11



KEY PLAN



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_10.dwg									
PRINTED: 1:32:13 PM	1/15/2019	LAST PRINTED BY:						FED.AID	
SUBMITTAL DATE:	1/18/19	BHADDOX						PROJ.NO.	
DESIGNED BY:	J. VONG	1/18/19						WA-2017-007-00	
ENTERED BY:	B. HADDOX	1/18/19						REGION NO. STATE	
CHECKED BY:	D. KOONTS	1/18/19						10 WASH	
MAR PROJ ENGR:	C. TORRES							JOB NUMBER	
DIR TERM ENGR:	N. MCINTOSH							18W121	
ASST SECRETARY:	A. SCARTON							CONTRACT NO.	
								00*****	
		CONFORMED PLANS	1/18/19	BH					
		REVISION		DATE	BY				



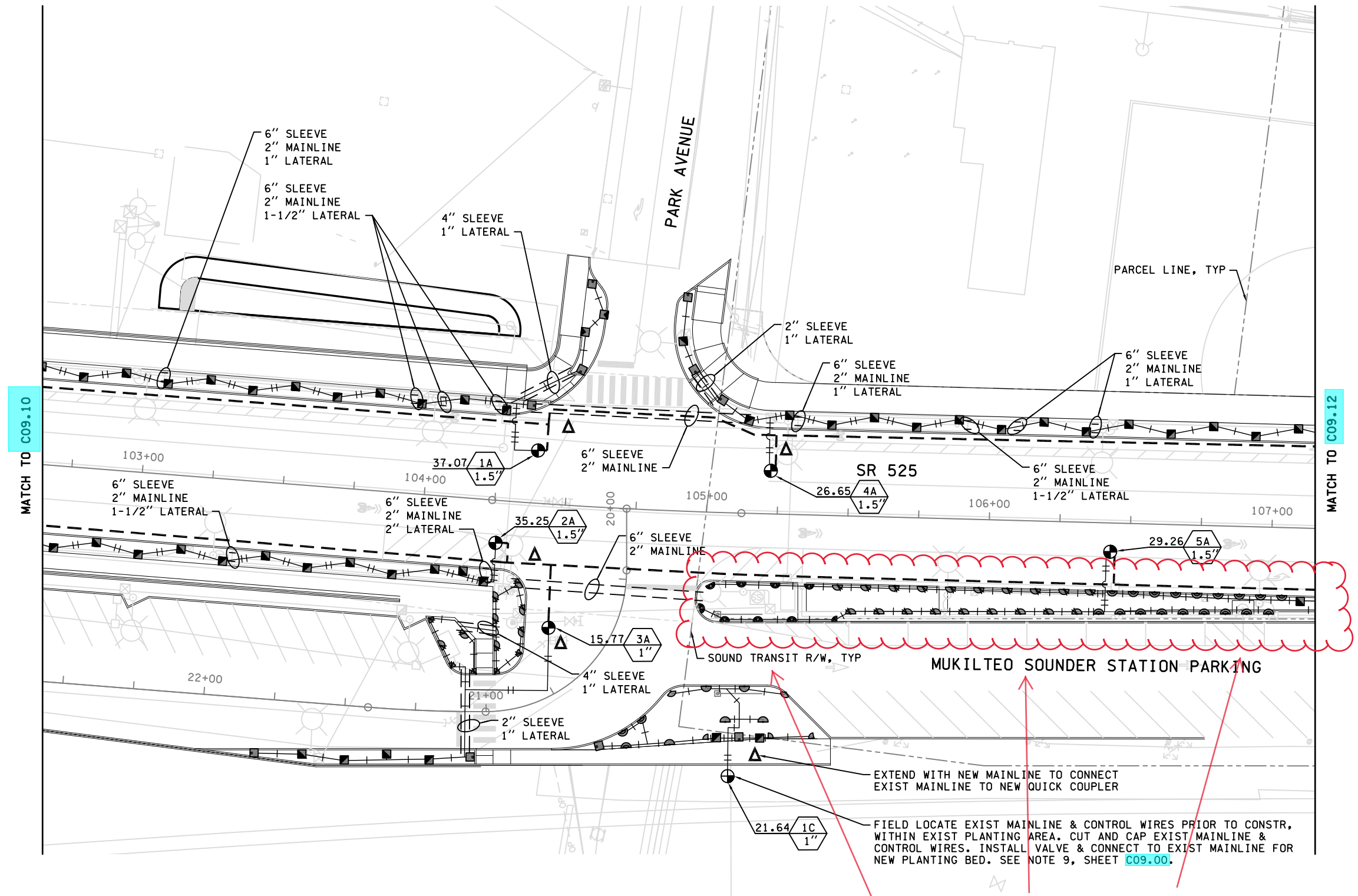
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION PLAN

C09.10  
SHEET  
228  
OF  
1521  
SHEETS



NOTES:

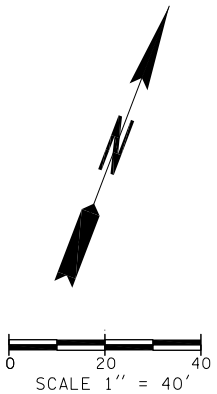
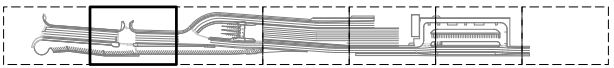
1. LOCATE MAINLINE AND LATERAL LINES ALONG EDGE OF PAVEMENT WITHIN PLANTING AREAS. AVOID UTILITIES, WALLS, TREES, AND OTHER EXISTING AND PROPOSED ELEMENTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
2. LIMITS OF IRRIGATED AREAS EQUAL TO LIMITS OF PLANTING, EXCLUDING BACK OF SIDEWALK, SEEDED AREAS, UNLESS OTHERWISE NOTED.
3. SEE DRAINAGE PLANS FOR LOCATIONS OF BIORETENTION CELLS AND DETAILS.



RFI - 622 - Irrigation Heads wont fit on the South side of planter

RESPONSE:

Adjust the southern portion of the irrigation within planting C00.11 and C09.12 to avoid drainage pipe and geotextile by shifting irrigation north.



FILE NAME: PW\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_11.dwg			
PRINTED: 1:32:25 PM 1/15/2019	LAST PRINTED BY: BHADDOX		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19			WA-2017-007-00
DESIGNED BY: J. VONG	1/18/19		REGION NO. STATE
ENTERED BY: B. HADDOX	1/18/19		10 WASH
CHECKED BY: D. KOONTS	1/18/19		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	00****
		DATE	BY

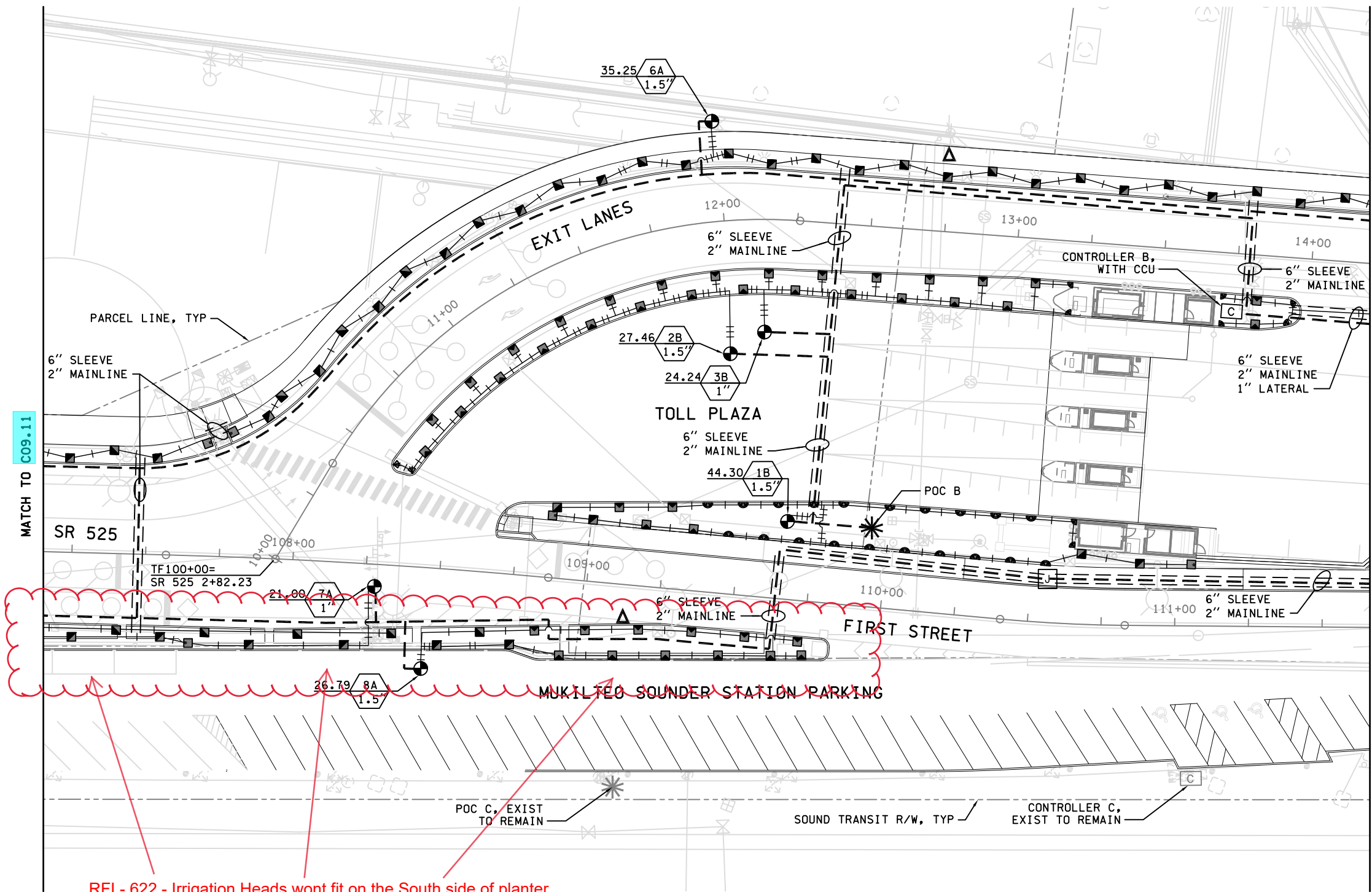


SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION PLAN

C09.11  
SHEET  
229  
OF  
1521  
SHEETS

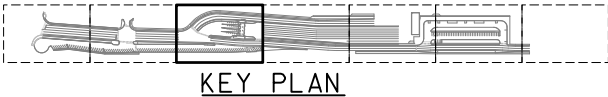


- NOTES:
- 1. LOCATE MAINLINE AND LATERAL LINES ALONG EDGE OF PAVEMENT WITHIN PLANTING AREAS. AVOID UTILITIES, WALLS, TREES, AND OTHER EXISTING AND PROPOSED ELEMENTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
  - 2. LIMITS OF IRRIGATED AREAS EQUAL TO LIMITS OF PLANTING, EXCLUDING BACK OF SIDEWALK, SEEDED AREAS, UNLESS OTHERWISE NOTED.
  - 3. SEE DRAINAGE PLANS FOR LOCATIONS OF BIORETENTION CELLS AND DETAILS.

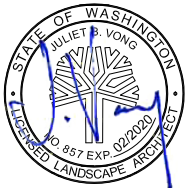


RFI - 622 - Irrigation Heads wont fit on the South side of planter

RESPONSE:  
Adjust the southern portion of the irrigation within planting C00.11  
and C09.12 to avoid drainage pipe and geotextile by shifting irrigation north.



FILE NAME: P:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_12.dwg			
PRINTED: 1:32:29 PM 1/15/2019	LAST PRINTED BY: BHADDOX		FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 1/18/19	DESIGNED BY: J. VONG	1/18/19	REGION NO. STATE 10 WASH
ENTERED BY: B. HADDOX	CHECKED BY: D. KOONTS	1/18/19	JOB NUMBER 18W121
MAR PROJ ENGR: C. TORRES	DIR TERM ENGR: N. MCINTOSH		CONTRACT NO. 00*****
ASST SECRETARY: A. SCARTON		CONFORMED PLANS	1/18/19 BH
		REVISION	DATE BY



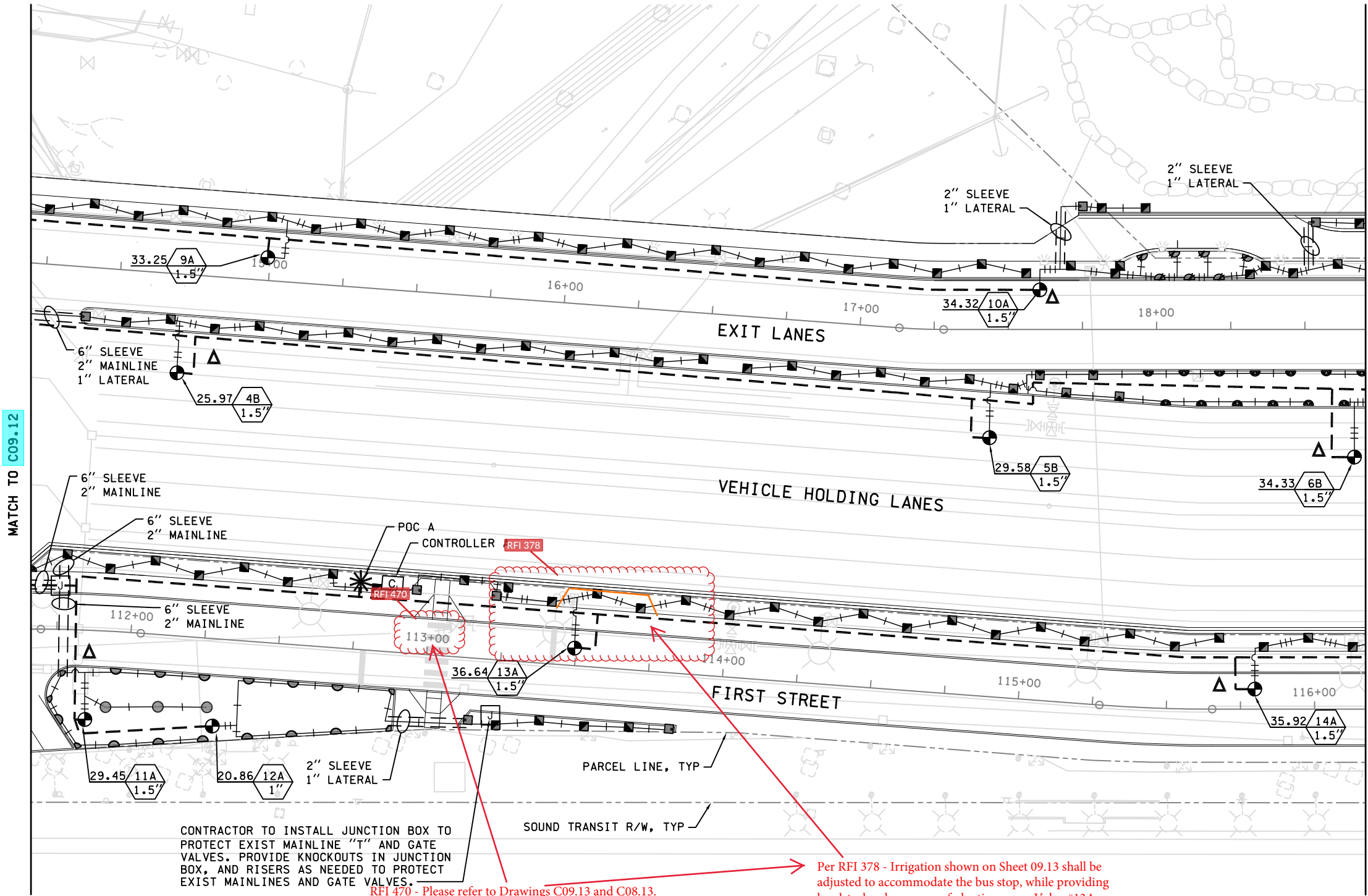
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION PLAN

C09.12  
SHEET  
230  
OF  
1521  
SHEETS



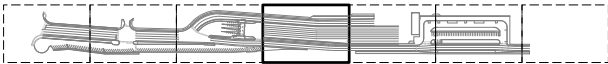
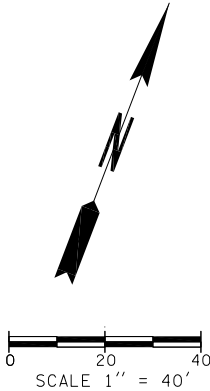
NOTES:

1. LOCATE MAINLINE AND LATERAL LINES ALONG EDGE OF PAVEMENT WITHIN PLANTING AREAS. AVOID UTILITIES, WALLS, TREES, AND OTHER EXISTING AND PROPOSED ELEMENTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
2. LIMITS OF IRRIGATED AREAS EQUAL TO LIMITS OF PLANTING, EXCLUDING BACK OF SIDEWALK, SEEDED AREAS, UNLESS OTHERWISE NOTED.
3. SEE DRAINAGE PLANS FOR LOCATIONS OF BIORETENTION CELLS AND DETAILS.



RFI 470 - Please refer to Drawings C09.13 and C08.13. The Point of Connection A for the Irrigation System on C09.13 does not align with the 2" Irrigation Water SVC on C08.13 (TF 113+48.19 (22.80L)). IMCO proposes to run a pipe from the 2" Irrigation Water SVC to their point of connection A. Please confirm if this is acceptable  
RESPONSE:  
No exceptions - Contractor to coordinate with RFI 378

Per RFI 378 - Irrigation shown on Sheet 09.13 shall be adjusted to accommodate the bus stop, while providing head-to-head coverage of planting areas. Valve #13A shall be relocated to be within planting areas. Additional sleeves will be required for the mainline and lateral line to run underneath the bus stop. Note that the Point of Connection A (POC A) equipment associated with this irrigation meter.



KEY PLAN



FILE NAME: P:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_13.dwg				PRINTED: 1:32:32 PM 1/15/2019		LAST PRINTED BY: BHADDOX		FED.AID PROJ.NO.	
SUBMITTAL DATE: 1/18/19				DESIGNED BY: J. VONG		1/18/19		WA-2017-007-00	
ENTERED BY: B. HADDOX				CHECKED BY: D. KOONTS		1/18/19		REGION NO. STATE	
MAR PROJ ENGR: C. TORRES				DIR TERM ENGR: N. MCINTOSH		1/18/19		10 WASH	
ASST SECRETARY: A. SCARTON				CONFORMED PLANS		1/18/19		JOB NUMBER	
				REVISION		DATE		18W121	
						BY		CONTRACT NO.	
								00*****	



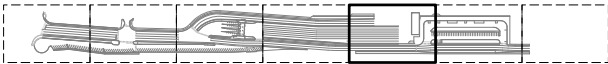
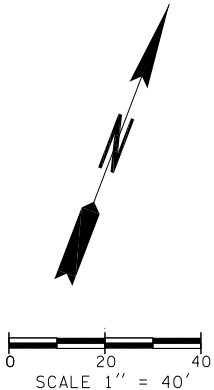
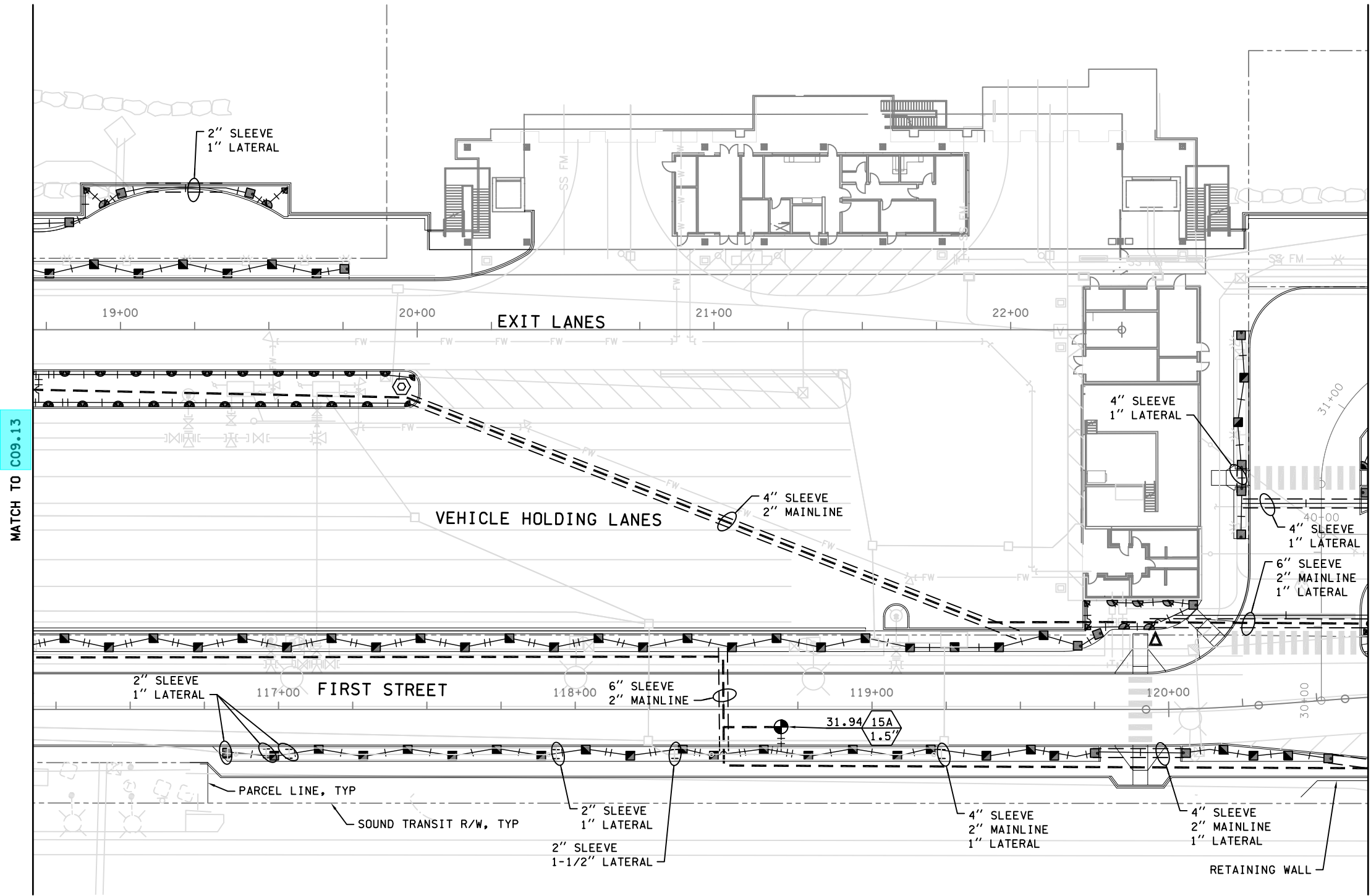
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION PLAN

C09.13  
SHEET  
231  
OF  
1521  
SHEETS



NOTES:

1. LOCATE MAINLINE AND LATERAL LINES ALONG EDGE OF PAVEMENT WITHIN PLANTING AREAS. AVOID UTILITIES, WALLS, TREES, AND OTHER EXISTING AND PROPOSED ELEMENTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
2. LIMITS OF IRRIGATED AREAS EQUAL TO LIMITS OF PLANTING, EXCLUDING BACK OF SIDEWALK, SEEDED AREAS, UNLESS OTHERWISE NOTED.
3. SEE DRAINAGE PLANS FOR LOCATIONS OF BIORETENTION CELLS AND DETAILS.



KEY PLAN



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09-14.dwg				FED.AID PROJ.NO.	
PRINTED: 1:32:44 PM 1/15/2019	LAST PRINTED BY: BHADDOX			WA-2017-007-00	
SUBMITTAL DATE: 1/18/19	DESIGNED BY: J. VONG	1/18/19		REGION NO. STATE	
ENTERED BY: B. HADDOX	CHECKED BY: D. KOONTIS	1/18/19		10 WASH	
MAR PROJ ENGR: C. TORRES				JOB NUMBER	
DIR TERM ENGR: N. MCINTOSH				18W121	
ASST SECRETARY: A. SCARTON				CONTRACT NO.	
				00****	
CONFORMED PLANS		1/18/19	BH		
REVISION		DATE	BY		



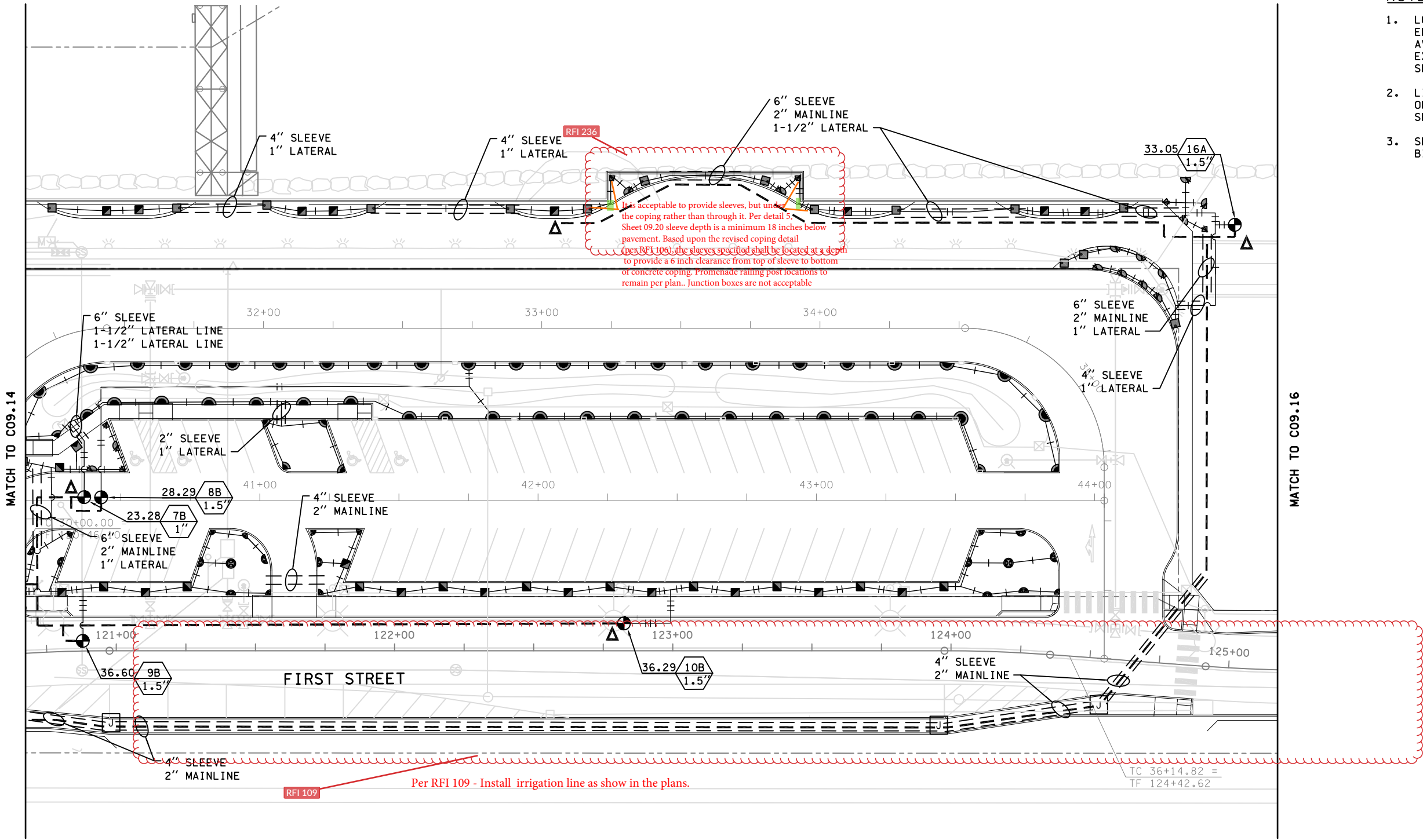
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION PLAN

C09.14  
SHEET  
232  
OF  
1521  
SHEETS



NOTES:

1. LOCATE MAINLINE AND LATERAL LINES ALONG EDGE OF PAVEMENT WITHIN PLANTING AREAS. AVOID UTILITIES, WALLS, TREES, AND OTHER EXISTING AND PROPOSED ELEMENTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
2. LIMITS OF IRRIGATED AREAS EQUAL TO LIMITS OF PLANTING, EXCLUDING BACK OF SIDEWALK, SEEDED AREAS, UNLESS OTHERWISE NOTED.
3. SEE DRAINAGE PLANS FOR LOCATIONS OF BIORETENTION CELLS AND DETAILS.



FILE NAME: PW\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_15.dwg							
PRINTED: 1:32:55 PM 1/15/2019		LAST PRINTED BY:				FED.AID PROJ.NO.	
SUBMITTAL DATE: 1/18/19		BHADDOX					
DESIGNED BY: J. VONG		1/18/19				WA-2017-007-00	
ENTERED BY: B. HADDOX		1/18/19				REGION NO. STATE	
CHECKED BY: D. KOONTS		1/18/19				10 WASH	
MAR PROJ ENGR: C. TORRES						JOB NUMBER	
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		18W121	
ASST SECRETARY: A. SCARTON				1/18/19		BH	
				REVISION		DATE BY	
						CONTRACT NO. 00****	

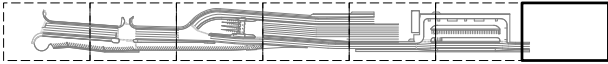
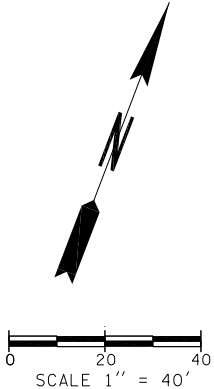
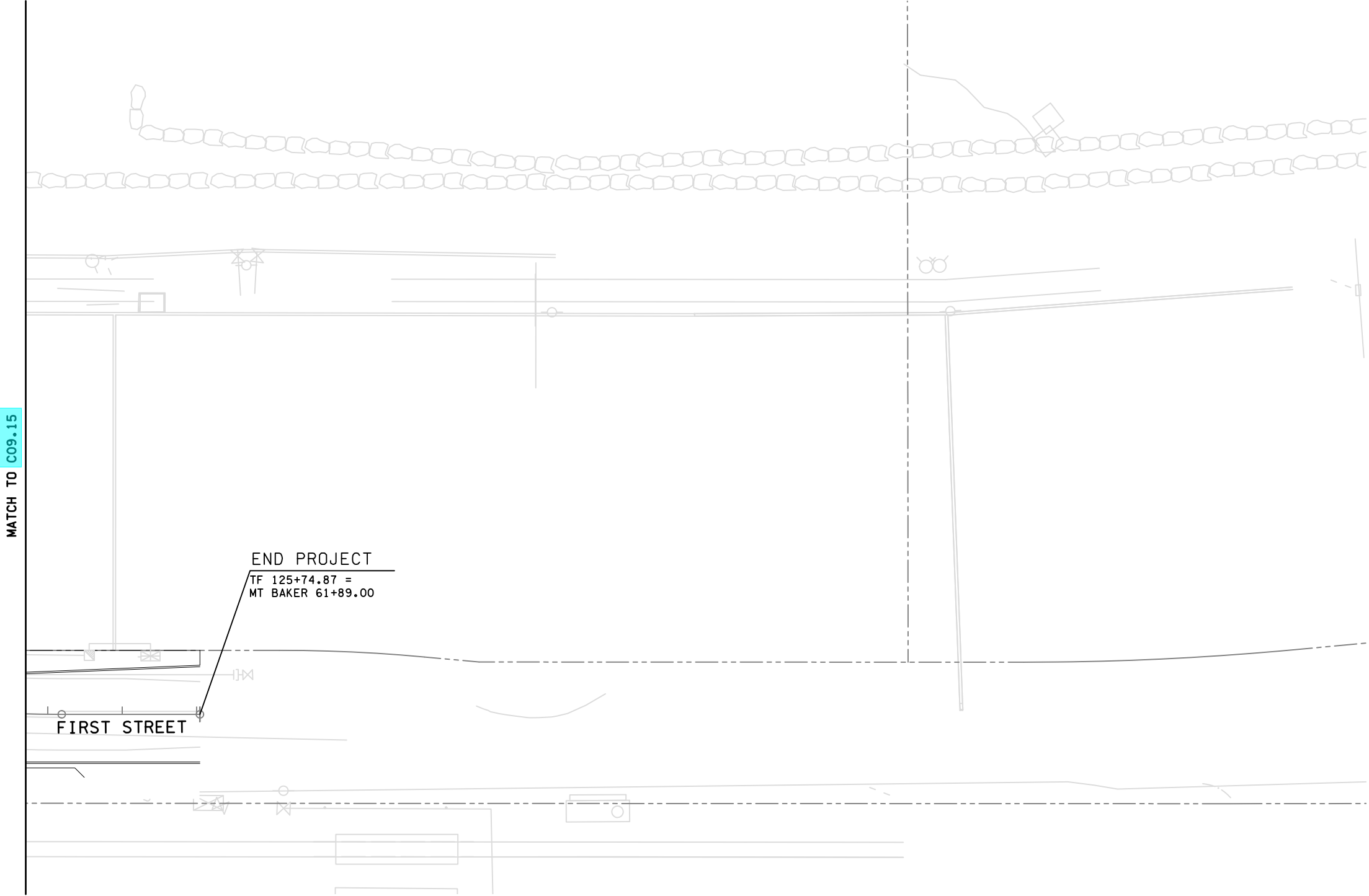


SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION PLAN

C09.15  
SHEET  
233  
OF  
1521  
SHEETS



- NOTES:
1. LOCATE MAINLINE AND LATERAL LINES ALONG EDGE OF PAVEMENT WITHIN PLANTING AREAS. AVOID UTILITIES, WALLS, TREES, AND OTHER EXISTING AND PROPOSED ELEMENTS UNLESS SPECIFICALLY NOTED ON THE PLANS.
  2. LIMITS OF IRRIGATED AREAS EQUAL TO LIMITS OF PLANTING, EXCLUDING BACK OF SIDEWALK, SEEDED AREAS, UNLESS OTHERWISE NOTED.
  3. SEE DRAINAGE PLANS FOR LOCATIONS OF BIORETENTION CELLS AND DETAILS.



KEY PLAN



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_16.dwg									
PRINTED:	1:33:06 PM	1/15/2019	LAST PRINTED BY:					FED.AID	
SUBMITTAL DATE:	1/18/19		BHADDOX					PROJ.NO.	
DESIGNED BY:	J. VONG	1/18/19						WA-2017-007-00	
ENTERED BY:	B. HADDOX	1/18/19						REGION NO.	STATE
CHECKED BY:	D. KOONTZ	1/18/19						10	WASH
MAR PROJ ENGR:	C. TORRES							JOB NUMBER	
DIR TERM ENGR:	N. MCINTOSH							18W121	
ASST SECRETARY:	A. SCARTON							CONTRACT NO.	
								00*****	
			CONFORMED PLANS	1/18/19	BH				
			REVISION	DATE	BY				



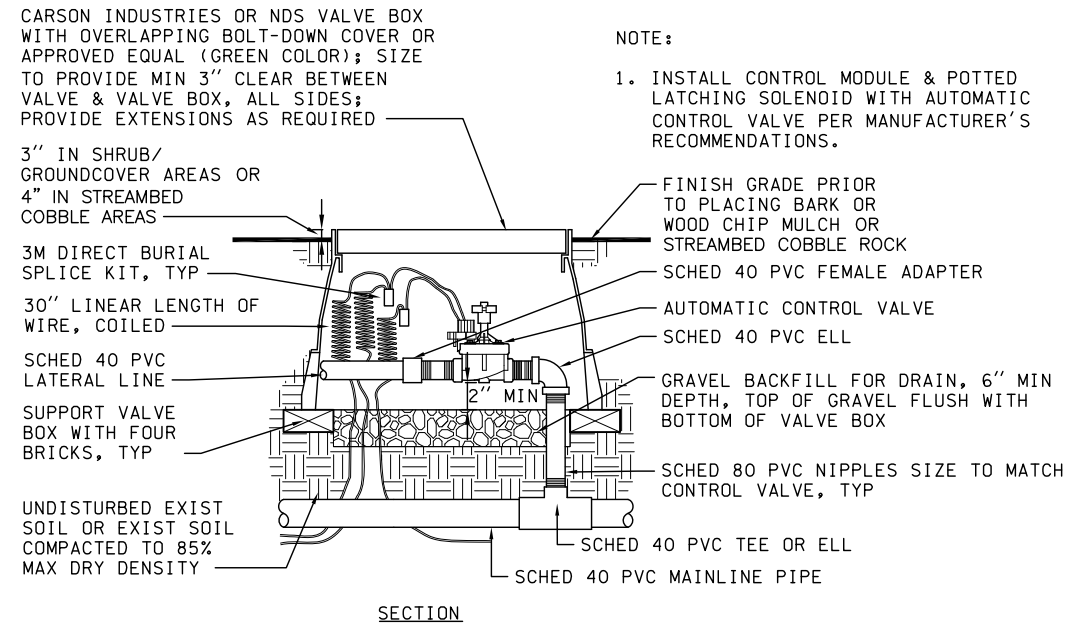
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
IRRIGATION PLAN

C09.16  
SHEET  
234  
OF  
1521  
SHEETS

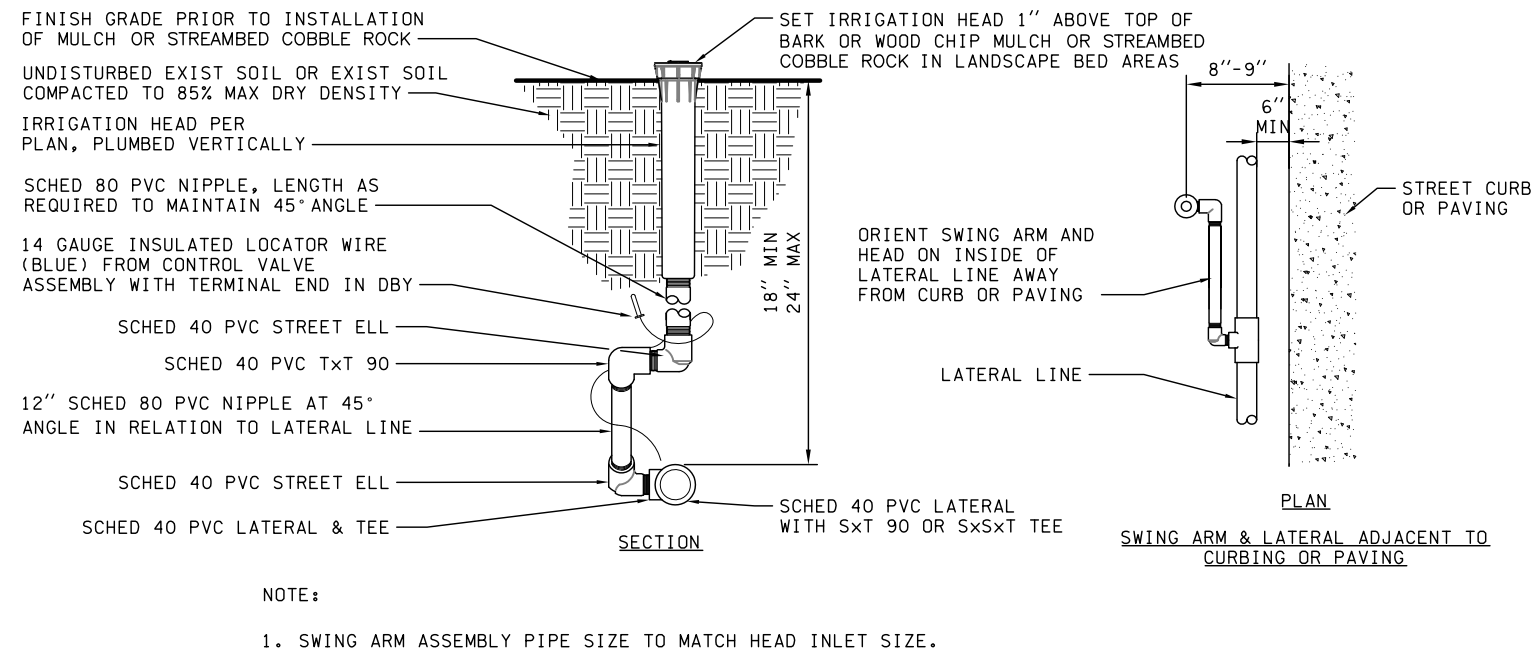




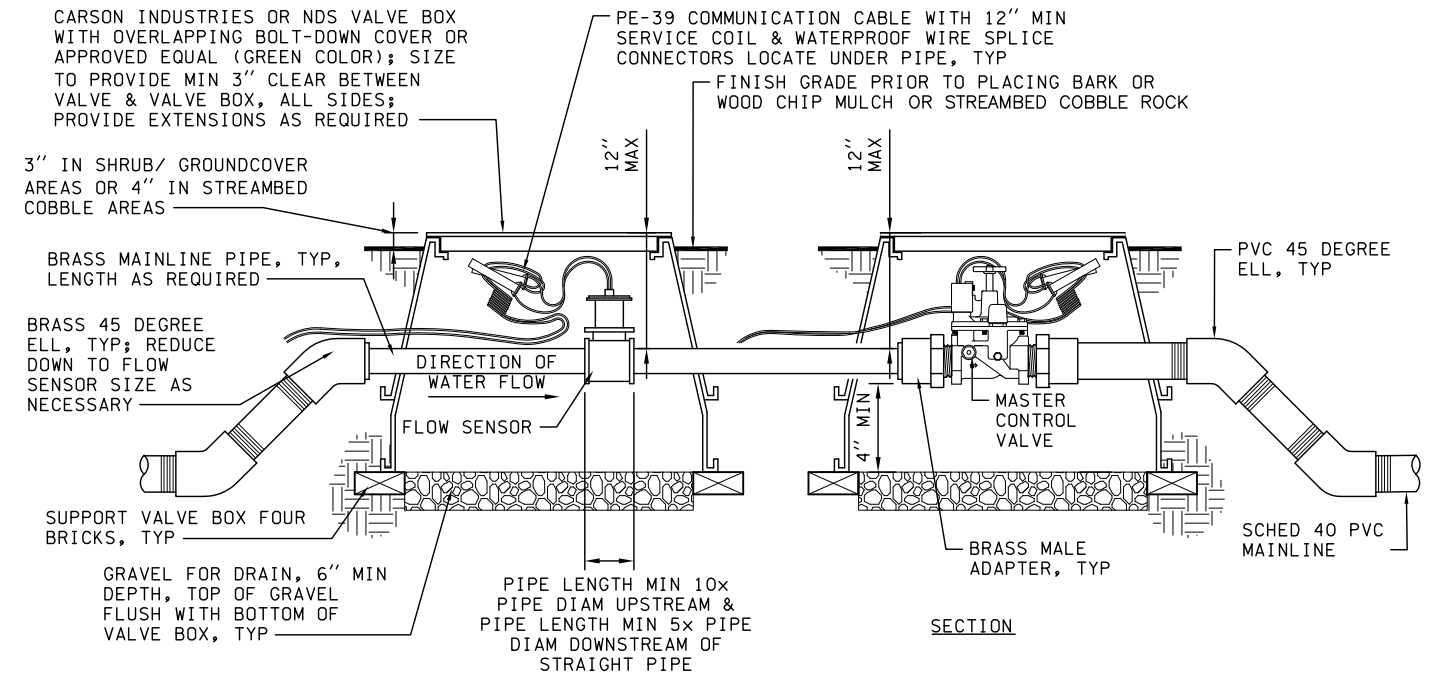




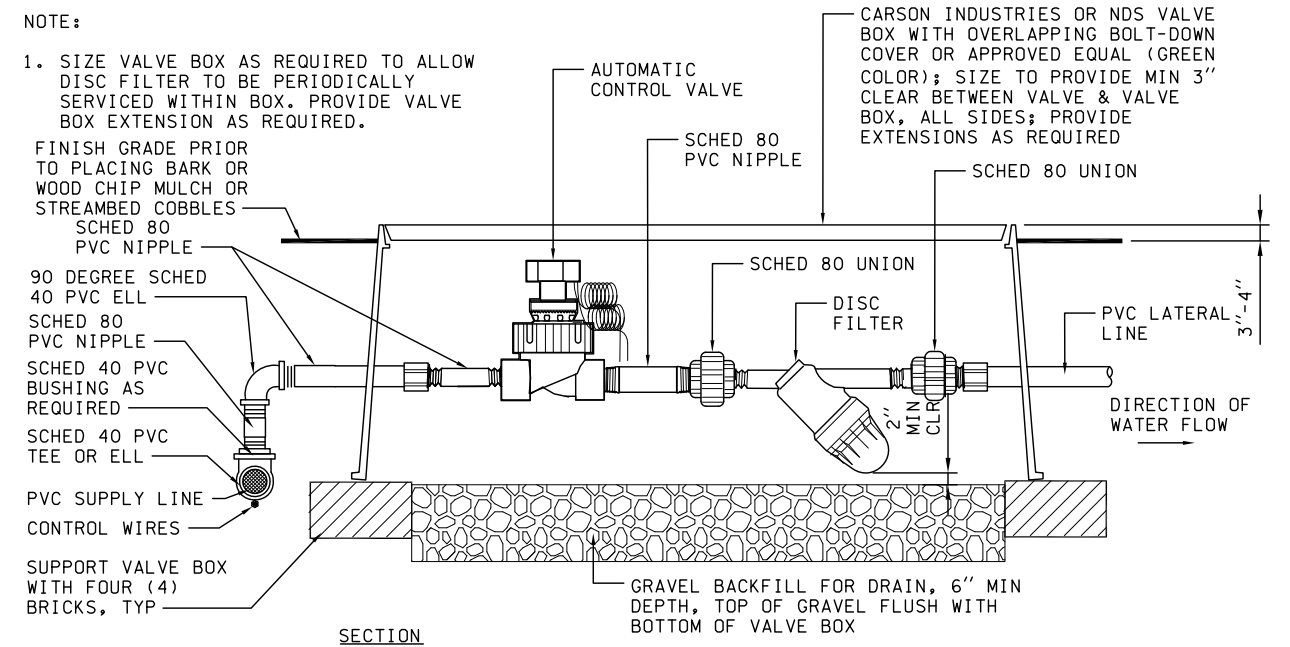
1 AUTOMATIC CONTROL VALVE  
C09.00 NOT TO SCALE



3 SWING ARM & HEAD ASSEMBLY  
C09.00 NOT TO SCALE

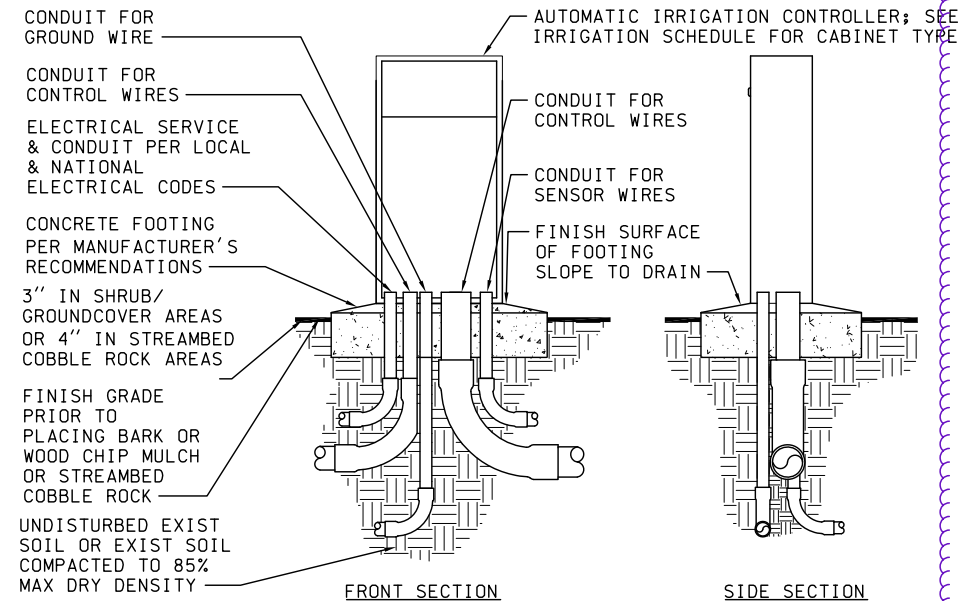


2 MASTER VALVE & FLOW SENSOR ASSEMBLY  
C09.00 NOT TO SCALE



4 AUTOMATIC DRIP IRRIGATION CONTROL VALVE WITH DISC FILTER  
C09.00 NOT TO SCALE





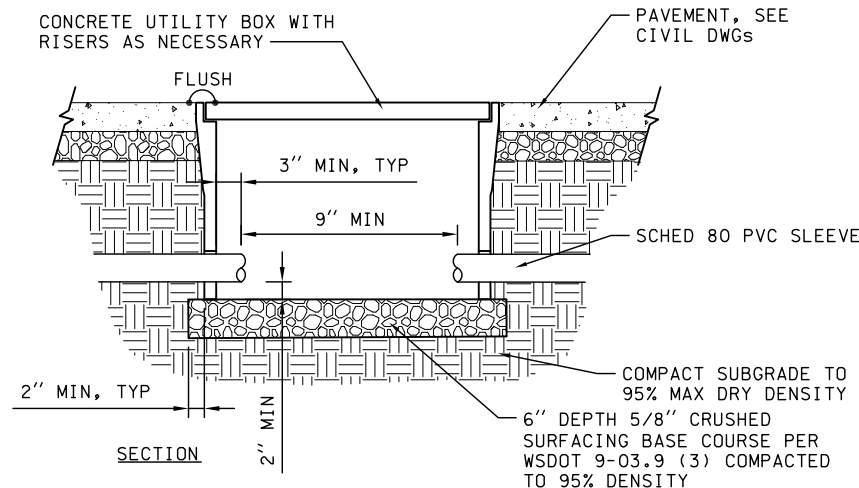
NOTES:

1. ALL CONDUITS SHALL EXTEND MIN 6" BEYOND EDGE OF CONCRETE FOOTING AND BE MIN 18" DEPTH BELOW FINISH GRADE.
2. INSTALLATION TO BE COMPLETED PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE CCU28S COMMUNICATION CARTRIDGE UNIT (CCU) WITH STAINLESS STEEL PEDESTAL IMMEDIATELY ADJACENT TO CONTROLLER B PEDESTAL ONLY. PROVIDE WIRED CONNECTIONS BETWEEN CONTROLLER AND CCU PER MANUFACTURER'S WRITTEN RECOMMENDATIONS.

1 IRRIGATION CONTROLLER

C09.00 NOT TO SCALE

per RFI 109 - Install irrigation line as show in the plans.



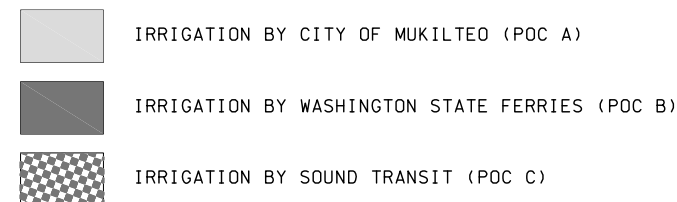
NOTES:

1. LOCATE UTILITY BOX PERPENDICULAR OR PARALLEL TO PAVEMENT CURB AND/OR CONCRETE SCORE PATTERN.
2. FIELD VERIFY THE LOCATION & ORIENTATION WITH ENGR PRIOR TO INSTALLATION.
3. JUNCTION BOX SHALL BE A CONCRETE UTILITY BOX WITH A REINFORCED CONCRETE, LOCKING LID. THE JUNCTION BOX SIZE SHALL BE A MIN 18"x18"x24" AND MAX 24"x24"x30".
4. INSTALL IRRIGATION LATERAL AND MAINLINE PIPE AND CONTROL WIRES WITHIN SLEEVES PRIOR TO PAVING.

2 TYPE I JUNCTION BOX

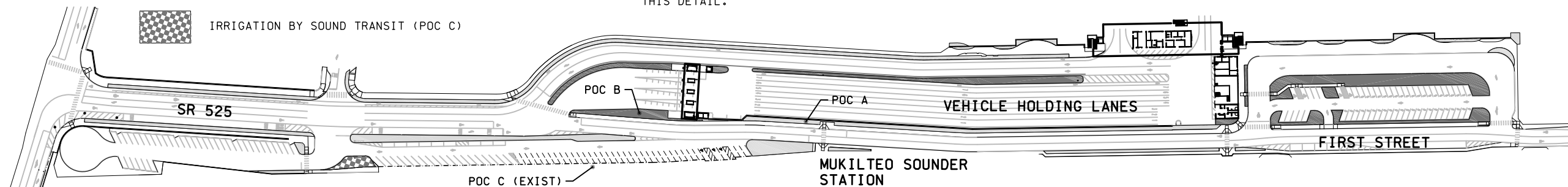
C09.00 NOT TO SCALE

PERMANENT IRRIGATION AREAS



NOTE:

1. SEE SPEC SECTION 8-02 FOR PLANT ESTABLISHMENT REQUIREMENTS FOR LANDSCAPING AREAS NOT SHOWN ON THIS DETAIL.



0 100 200  
SCALE 1" = 200'

3 LANDSCAPING & IRRIGATION MAINTENANCE LIMITS BY OWNER

C09.00 NOT TO SCALE



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c09_22.dwg	PRINTED: 1:33:24 PM 1/15/2019	LAST PRINTED BY: BHADDOX	FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 1/18/19	DESIGNED BY: J. VONG	1/18/19	REGION NO. STATE 10 WASH
ENTERED BY: B. HADDOX	CHECKED BY: D. KOONT	1/18/19	JOB NUMBER 18W121
MAR PROJ ENGR: C. TORRES	DIR TERM ENGR: N. MCINTOSH	ASST SECRETARY: A. SCARTON	CONTRACT NO. 00*****
CONFORMED PLANS		1/18/19	BH
REVISION		DATE	BY



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

IRRIGATION DETAILS

C09.22  
SHEET  
237  
OF  
1521  
SHEETS








# 1 DETAIL IDENTIFICATION

## PLANTING ABBREVIATIONS

## PLANTING NOTES

- |  |  |  |                  |  |        |  |                   |  |                     |
|--|--|--|------------------|--|--------|--|-------------------|--|---------------------|
| FILE NAME : PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_40.dlv |  |  |                  |  |        |  |                   |  |                     |
| PRINTED: 2:19:12 PM 1/8/2019   |  |  | LAST PRINTED BY: |  |        |  | FED.AID PROJ.NO.  |  |                     |
| SUBMITTAL DATE: 09/21/18   |  |  | BHADDOX          |  |        |  |                   |  |                     |
| DESIGNED BY: J. VONG   |  |  | 12/22/17         |  |        |  | WA-2017-007-00    |  |                     |
| ENTERED BY: B. HADDOX  |  |  | 12/22/17         |  |        |  | REGION NO. STATE  |  |                     |
| CHECKED BY: D. KOONTIS   |  |  | 12/22/17         |  |        |  | 10 WASH           |  |                     |
| MAR PROJ ENGR: C. TORRES   |  |  |                  |  |        |  | JOB NUMBER 18W121 |  |                     |
| DIR TERM ENGR: N. MCINTOSH   |  |  | CHANGE ORDER     |  | 1/9/19 |  | BH                |  | CONTRACT NO. 00**** |
| ASST SECRETARY: A. SCARTON   |  |  | REVISION         |  | DATE   |  | BY                |  |                     |

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE/REMARKS
-----	-----	------------------------	--------------

SHRUBS			
	26	CORNUS SERICEA/ RED OSIER DOGWOOD	1 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED; WHERE SYMBOL IS SHOWN ON PLAN, INSTALL ADJACENT GROUND COVER BETWEEN SHRUB PLANTINGS
	255	RIBES SANGUINEUM/ RED FLOWERING CURRANT	1 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED; WHERE SYMBOL IS SHOWN ON PLAN, INSTALL ADJACENT GROUND COVER BETWEEN SHRUB PLANTINGS
	9	ROSA NUTKANA/ NUTKA ROSA	1 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED; WHERE SYMBOL IS SHOWN ON PLAN, INSTALL ADJACENT GROUND COVER BETWEEN SHRUB PLANTINGS
	36	RUBUS SPECTABILIS/ SALMONBERRY	1 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED; WHERE SYMBOL IS SHOWN ON PLAN, INSTALL ADJACENT GROUND COVER BETWEEN SHRUB PLANTINGS
	221	VACCINIUM OVATUM/ EVERGREEN HUCKLEBERRY	2 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED; WHERE SYMBOL IS SHOWN ON PLAN, INSTALL ADJACENT GROUND COVER BETWEEN SHRUB PLANTINGS

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE/REMARKS
-----	-----	------------------------	--------------


 215 WESTLAKE AVE., NORTH  
 SEATTLE, WA 98109  
 206.882.3031 phone  
 206.882.3245 fax



**Washington State  
Department of Transportation**  
WASHINGTON STATE FERRIES

SR525	
MUKILTEO FERRY TERMINAL (PHASE 2)	
FERRY TERMINAL CONSTRUCTION	
PLANTING	SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS

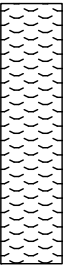










C09.40

---

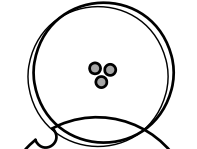
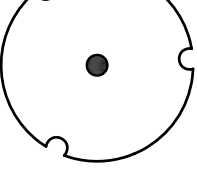









SHEET  
238  
OF  
1521  
SHEETS



PLANTING SCHEDULE CONTINUED

SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE/REMARKS
SHRUBS/GROUNDCOVERS			
	573	CAREX OBNUPTA/ SLOUGH SEDGE	1 GAL CONT; FULL AND WELL ROOTED; TRIANGULAR SPACING AT 24" OC; MIN GROUP OF 5; MAX GROUP OF 10; SEE DETAIL 2 DWG C09.62 FOR SAMPLE PLANT ARRANGEMENT
	573	JUNCUS PATENS/ SPREADING RUSH	
	288	SCIRPUS ACUTUS/ HARDSTEM BULLRUSH	
	392	CORNUS SERICEA 'KELSEY'/ KELSEYI DOGWOOD	1 GAL CONT; FULL, WELL BRANCHED, AND WELL ROOTED; TRIANGULAR SPACING AT 24" OC; MIN GROUP OF 4, MAX GROUP OF 10; SEE DETAIL 2 DWG C09.62 FOR SAMPLE PLANT ARRANGEMENT
	392	GAULTHERIA SHALLON/ SALAL	2 GAL CONT; FULL, WELL BRANCHED, AND WELL ROOTED; TRIANGULAR SPACING AT 24" OC; MIN GROUP OF 5, MAX GROUP OF 10; SEE DETAIL 2 DWG C09.62 FOR SAMPLE PLANT ARRANGEMENT
	130	IRIS DOUGLASIANA/ DOUGLAS IRIS	1 GAL CONT; FIRM CORM WITH MIN 2 EYES; WELL ROOTED; TRIANGULAR SPACING AT 24" OC; MAX GROUP OF 3; SEE DETAIL 2 DWG C09.62 FOR SAMPLE PLANT ARRANGEMENT
	654	POLYSTICHUM MUNITUM/ SWORD FERN	1 GAL CONT; FULL & WELL ROOTED; MIN 3 FRONDS WITH NO BROWN FRONDS; TRIANGULAR SPACING AT 18" OC; MIN GROUP OF 5; MAX GROUP OF 10; SEE DETAIL 2 DWG C09.62 FOR SAMPLE PLANT ARRANGEMENT
OTHER			
	2,912 SQ YD	SEED MIX	SEE SPEC 9-14.2
	1,117 SQ FT	3" STREAMBED COBBLES ONLY	SEE SPEC 9-03.11(2)
	637 SQ FT	STREAMBED COBBLES 3 IN EMBEDDED IN CONC	SEE DETAIL 6/C09.62
NO SYM	27 SQ FT	GRAVEL EDGE AT BUILDING	SEE SHEET C09.54 & DETAIL 3/C09.62
	1,768 SQ FT	4" DEPTH CRUSHED SURFACING BASE COURSE	SEE SPEC 9-03.9(3)

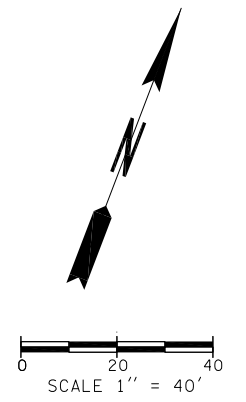
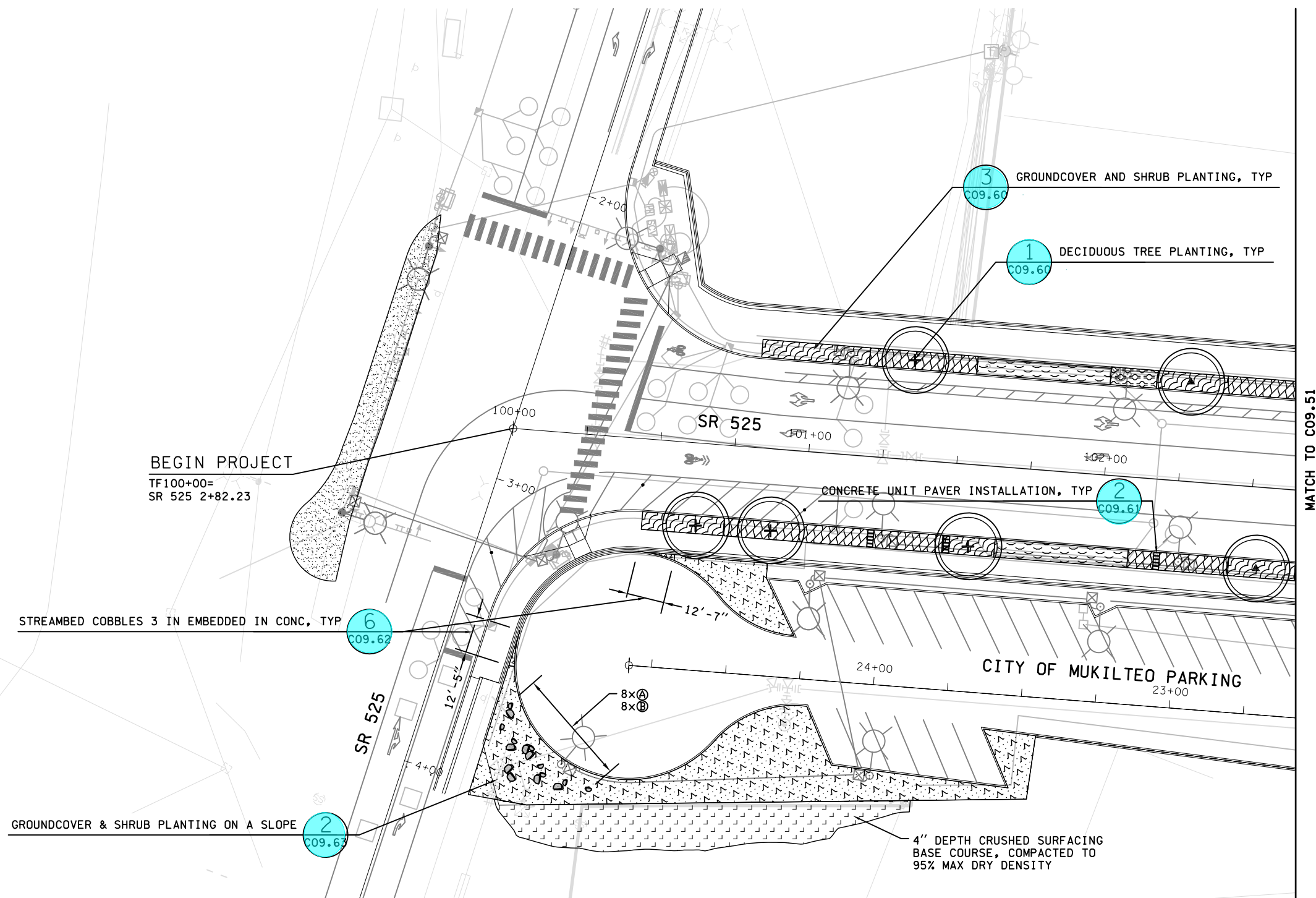
PLANTING ENLARGEMENTS SCHEDULE SEE SHEET C09.64 FOR ENLARGEMENTS



SYM	QTY	SCIENTIFIC/COMMON NAME	SIZE/REMARKS
TREE			
	1	AMELANCHIER ALNIFOLIA/ SERVICEBERRY	5'-6' HGT; B&B; FULL, WELL BRANCHED AND WELL ROOTED; MIN 3 TRUNKS
	2	PYRUS CALLERYANA 'BRADFORD' / BRADFORD PEAR	2" CAL; B&B; FULL, WELL BRANCHED AND WELL ROOTED; MIN 6' BRANCHING HGT; STREET TREE GRADE
SHRUBS/GROUNDCOVERS			
	155	CEANOTHUS GLORIOSUS VAR. GLORIOSUS/ POINT REYES CREEPER	1 GAL CONT; FULL, WELL BRANCHED, AND WELL ROOTED; TRIANGULAR SPACING AT 18" OC
	14	CISTUS X HYBRIDUS/ WHITE ROCKROSE	1 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED
	108	ELYMUS MOLLIS/ AMERICAN DUNE GRASS	1 GAL CONT; BLADES SHALL BE FULL, WITH SEVERAL ROOT NODULES AT THE BASE OF EACH BLADE
	108	FRAGARIA CHILOENSIS/ BEACH STRAWBERRY	1 GAL CONTAINER; FULL AND WELL ROOTED
	30	GRINDELIA STRICTA/ COASTAL GUMWEED	1 GAL CONTAINER; FULL AND WELL ROOTED
	18	LUPINUS LITTORALIS/ SEASHORE LUPINE	1 GAL CONTAINER; FULL AND WELL ROOTED
	29	MISCANTHUS SINENSIS 'MALEPARTUS' / MALEPARTUS MAIDEN GRASS	2 GAL CONT; FULL AND WELL ROOTED
	15	ROSA GYMNOCARPA/ BALD HIP ROSE	1 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED
	58	SPIRAEA JAPONICA 'GOLDMOUND' / GOLDMOUND SPIRAEA	2 GAL CONT; FULL, WELL BRANCHED AND WELL ROOTED
NO SYM	60	HEMEROCALLIS 'MARY'S GOLD' / HYBRID DAYLILY 'MARY'S GOLD'	1 GAL CONTAINER; FULL AND WELL ROOTED, MIN 5 BLADES

PLANT IDENTIFICATION  
SIGN SCHEDULE

SYM	QTY OF SIGNS	SCIENTIFIC/COMMON NAME
	1	SYMPHORICARPOS ALBUS
	1	PINUS CONTORTA
	1	AMELANCHIER ALNIFOLIA
	1	MAHONIA REPENS
	2	ROSA GYMNOCARPA
	2	ARBUTUS MENZIESII
	3	ELYMUS MOLLIS
	1	THUJA PLICATA
	1	ARCTOSTAPHYLOS UVA-URSI
	1	RIBES SANGUINEUM
	1	GAULTHERIA SHALLON
	1	ACHILLEA MILLEFOLIUM
	1	VACCINIUM OVATUM
	1	POLYSTICHUM MUNIUTUM
	1	FRAGARIA CHILEONSIS
	1	LUPINUS LITTORALIS





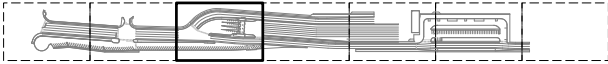
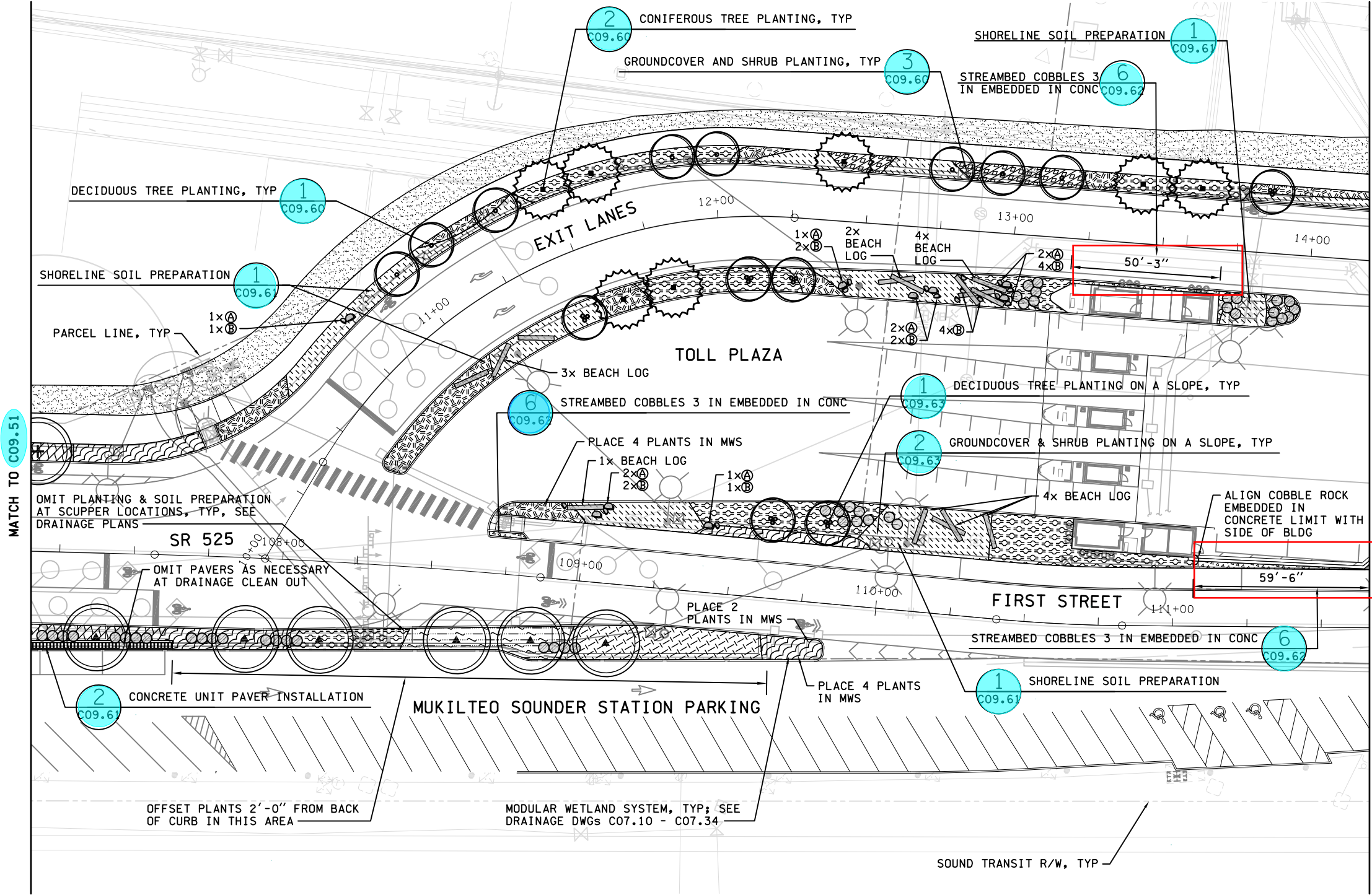
FILE NAME: PW:\SF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_50.dlv														SR525		C09.50
PRINTED: 1:33:50 PM 1/15/2019		LAST PRINTED BY:						FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)				SHEET		
SUBMITTAL DATE: 1/18/19		BHADDOX								FERRY TERMINAL CONSTRUCTION				240		
DESIGNED BY: J. VONG		1/18/19						WA-2017-007-00						OF		
ENTERED BY: B. HADDOX		1/18/19						REGION NO. STATE						1521		
CHECKED BY: D. KOONTS		1/18/19						10 WASH						SHEETS		
MAR PROJ ENGR: C. TORRES								JOB NUMBER								
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19		BH								
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY								
								00****								







- NOTES:
1. ALL PLANTING AREAS TO RECEIVE PLANTING AREA SOIL PREPARATION, SEE DETAIL 5 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
  2. ALL SEED AREAS TO RECEIVE SEED SOIL PREPARATION, SEE DETAIL 6 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
  3. ALL PLANTING STRIPS TO RECEIVE PLANTING STRIP TREATMENT, SEE DETAIL 4 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN. PLANTING STRIPS DEFINED AS PLANTING AREAS BETWEEN CURB AND SIDEWALK OR PLANTING AREAS BETWEEN CURBS, UNLESS OTHERWISE NOTED OR AREA IS A BIORETENTION PLANTING AREA.
  4. FOR SOIL PREPARATION IN BIORETENTION CELLS AND MODULAR WETLAND SYSTEMS, SEE DRAINAGE DWGS.
  5. LIMITS OF PLANTING TO EQUAL LIMITS OF CONSTRUCTION DISTURBANCE. MEET AND MATCH ADJACENT EXISTING GRADES WITH A SMOOTH TRANSITION.



KEY PLAN



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_52.dwg			
PRINTED: 1:34:16 PM	1/15/2019	LAST PRINTED BY:	
SUBMITTAL DATE: 1/18/19		BHADDOX	
DESIGNED BY: J. VONG	1/18/19		
ENTERED BY: B. HADDOX	1/18/19		
CHECKED BY: D. KOONTS	1/18/19		
MAR PROJ ENGR: C. TORRES			
DIR TERM ENGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON			
		CONFORMED PLANS	1/18/19 BH
		REVISION	DATE BY
			00*****
		FED.AID PROJ.NO.	WA-2017-007-00
		REGION NO. STATE	10 WASH
		JOB NUMBER	18W121
		CONTRACT NO.	00*****



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PLANTING PLAN

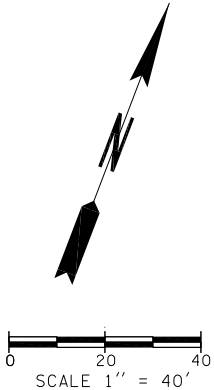
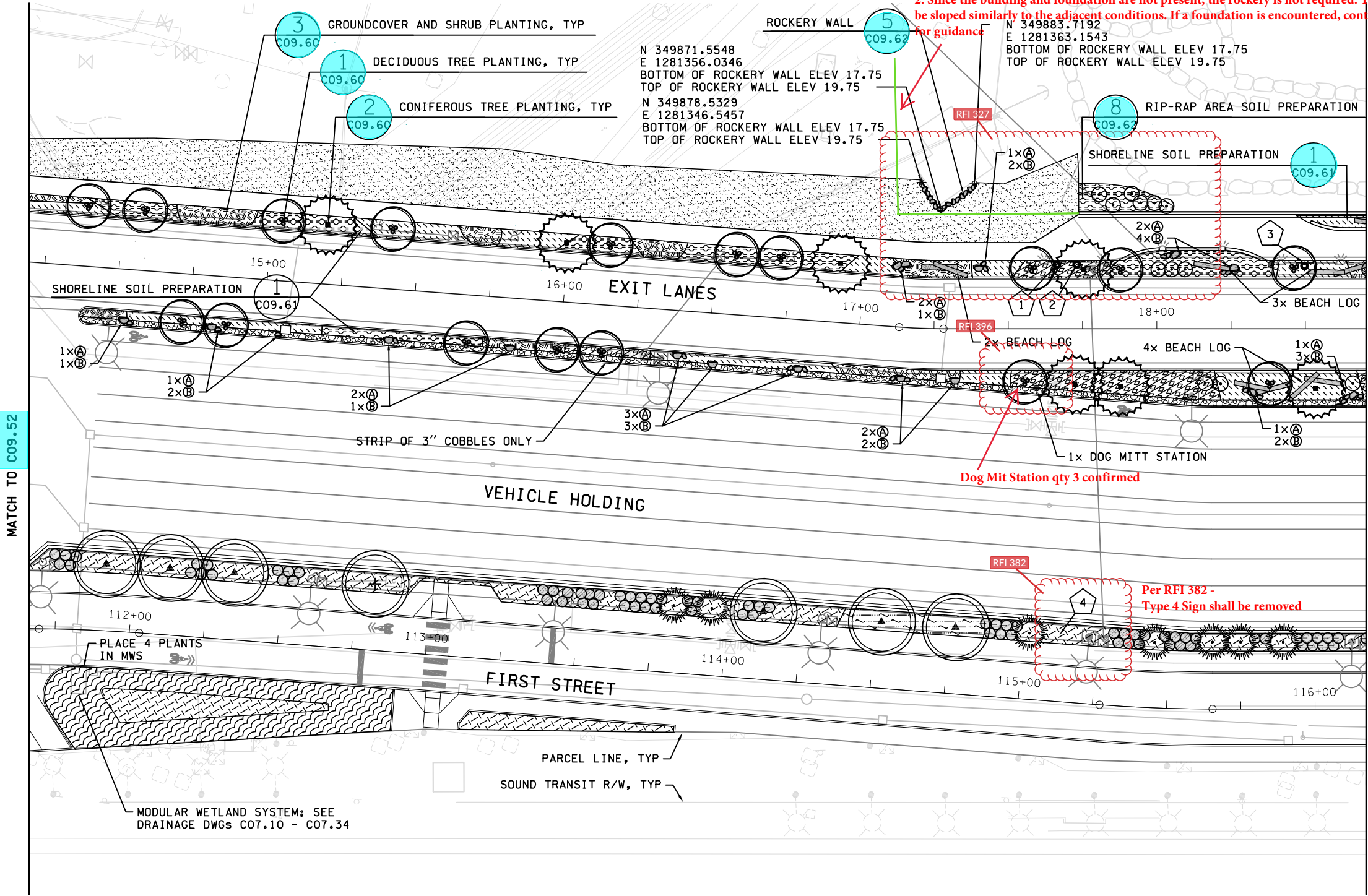
C09.52  
SHEET  
242  
OF  
1521  
SHEETS



PER RFI 327 - Per discussions with the WSDOT CM team and the design team:  
1. The fence shall be removed and salvaged as necessary to facilitate the construction per plan.  
Direction on replacement of the fence will be provided at a later date.  
2. Since the building and foundation are not present, the rockery is not required. The ground shall be sloped similarly to the adjacent conditions. If a foundation is encountered, contact the engineer for guidance

NOTES:

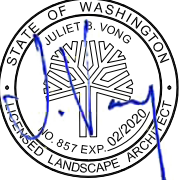
1. ALL PLANTING AREAS TO RECEIVE PLANTING AREA SOIL PREPARATION, SEE DETAIL 5 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
2. ALL SEED AREAS TO RECEIVE SEED SOIL PREPARATION, SEE DETAIL 6 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
3. ALL PLANTING STRIPS TO RECEIVE PLANTING STRIP TREATMENT, SEE DETAIL 4 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN. PLANTING STRIPS DEFINED AS PLANTING AREAS BETWEEN CURB AND SIDEWALK OR PLANTING AREAS BETWEEN CURBS, UNLESS OTHERWISE NOTED OR AREA IS A BIORETENTION PLANTING AREA.
4. FOR SOIL PREPARATION IN BIORETENTION CELLS AND MODULAR WETLAND SYSTEMS, SEE DRAINAGE DWGS.
5. LIMITS OF PLANTING TO EQUAL LIMITS OF CONSTRUCTION DISTURBANCE. MEET AND MATCH ADJACENT EXISTING GRADES WITH A SMOOTH TRANSITION.



KEY PLAN



FILE NAME: P:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_53.dlv				FED.AID PROJ.NO.			
PRINTED: 1:34:29 PM	1/15/2019	LAST PRINTED BY:	BHADDOX	WA-2017-007-00			
SUBMITTAL DATE:	1/18/19	DESIGNED BY:	J. VONG	REGION NO. STATE			
ENTERED BY:	B. HADDOX	1/18/19		10 WASH			
CHECKED BY:	D. KOONTS	1/18/19		JOB NUMBER			
MAR PROJ ENGR:	C. TORRES			18W121			
DIR TERM ENGR:	N. MCINTOSH	CONFORMED PLANS	1/18/19	CONTRACT NO.			
ASST SECRETARY:	A. SCARTON	REVISION	DATE	BY			
				00*****			



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

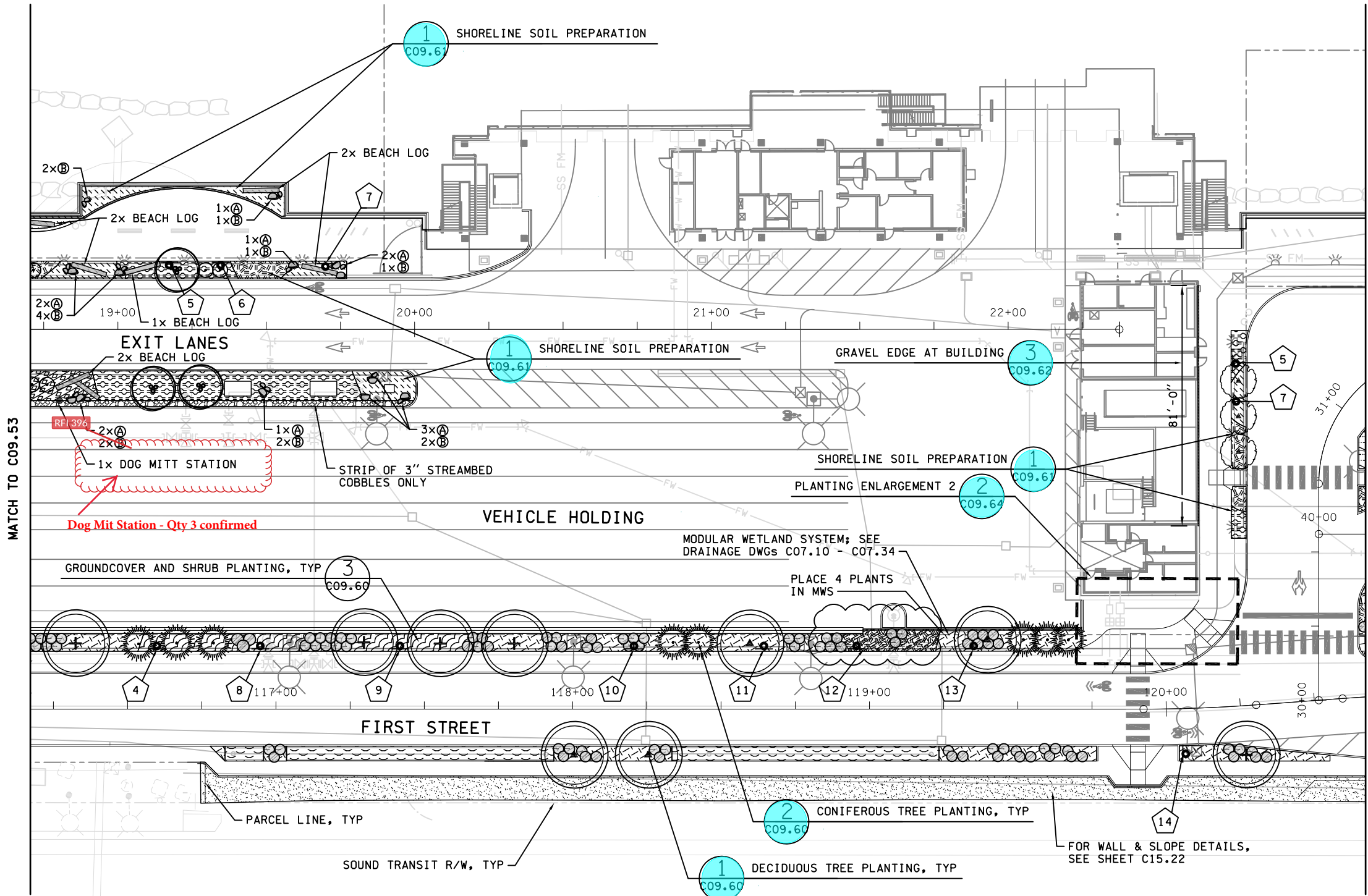
PLANTING PLAN

C09.53  
SHEET  
243  
OF  
1521  
SHEETS



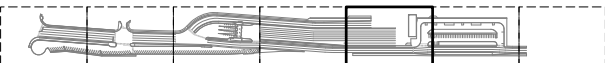
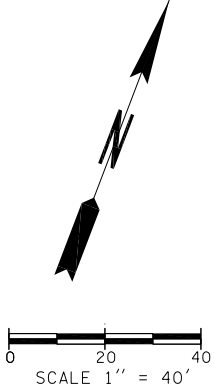
NOTES:

1. ALL PLANTING AREAS TO RECEIVE PLANTING AREA SOIL PREPARATION, SEE DETAIL 5 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
2. ALL SEED AREAS TO RECEIVE SEED SOIL PREPARATION, SEE DETAIL 6 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
3. ALL PLANTING STRIPS TO RECEIVE PLANTING STRIP TREATMENT, SEE DETAIL 4 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN. PLANTING STRIPS DEFINED AS PLANTING AREAS BETWEEN CURB AND SIDEWALK OR PLANTING AREAS BETWEEN CURBS, UNLESS OTHERWISE NOTED OR AREA IS A BIORETENTION PLANTING AREA.
4. FOR SOIL PREPARATION IN BIORETENTION CELLS AND MODULAR WETLAND SYSTEMS, SEE DRAINAGE DWGS.
5. LIMITS OF PLANTING TO EQUAL LIMITS OF CONSTRUCTION DISTURBANCE. MEET AND MATCH ADJACENT EXISTING GRADES WITH A SMOOTH TRANSITION.



MATCH TO C09.55

MATCH TO C09.53



KEY PLAN



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_54.dwg				LAST PRINTED BY:		FED.AID PROJ.NO.	
PRINTED: 2:19:51 PM 1/8/2019				BHADDOX		WA-2017-007-00	
SUBMITTAL DATE: 09/21/18				12/22/17		REGION NO. STATE	
DESIGNED BY: J. VONG				12/22/17		10 WASH	
ENTERED BY: B. HADDOX				12/22/17		JOB NUMBER	
CHECKED BY: D. KOONTS				12/22/17		18W121	
MAR PROJ ENGR: C. TORRES						CONTRACT NO.	
DIR TERM ENGR: N. MCINTOSH						00****	
ASST SECRETARY: A. SCARTON							
CHANGE ORDER		1/9/19		BH			
REVISION		DATE		BY			



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PLANTING PLAN

C09.54  
SHEET  
244  
OF  
1521  
SHEETS

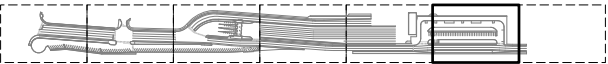
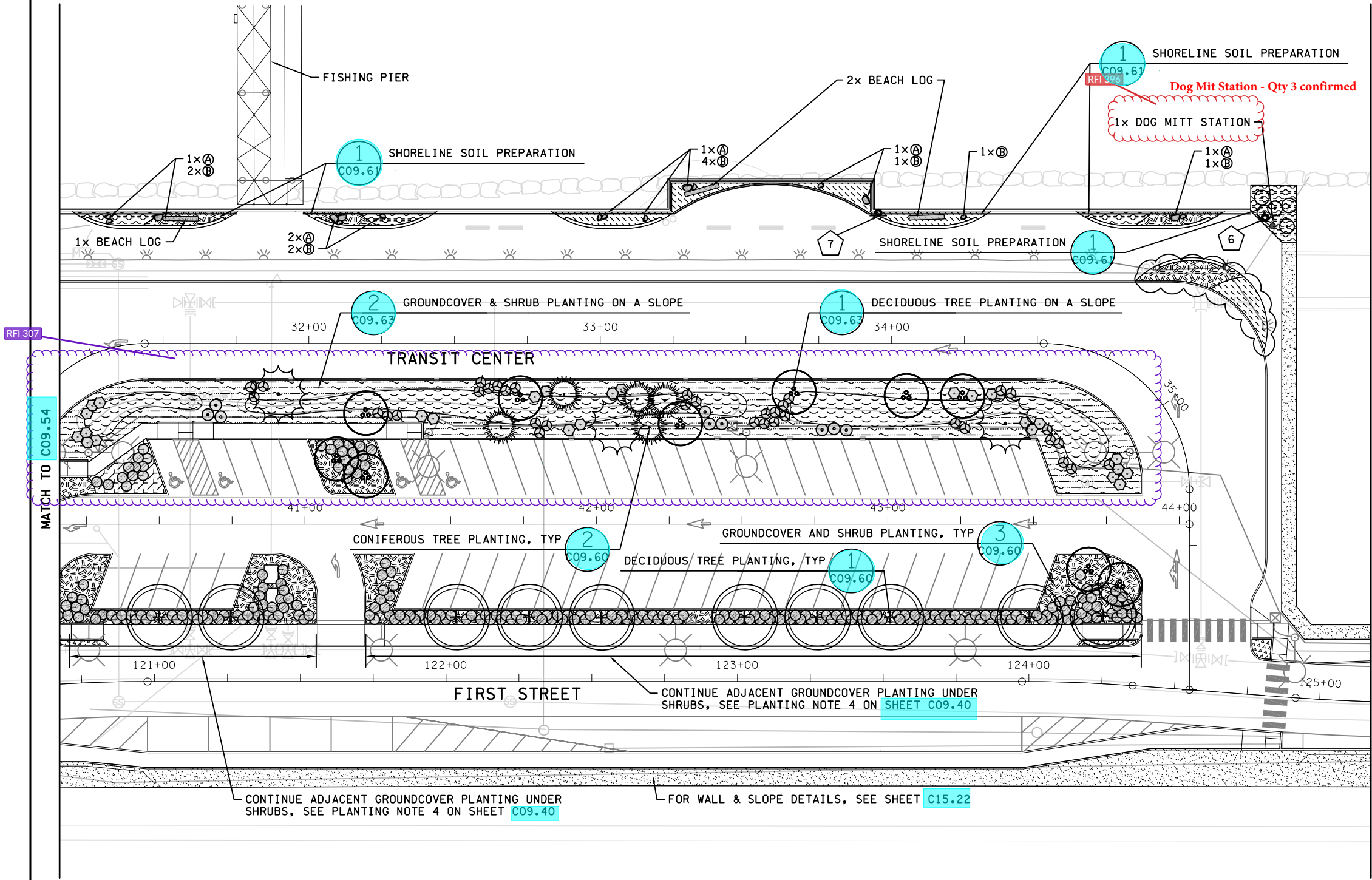


NOTES:

1. ALL PLANTING AREAS TO RECEIVE PLANTING AREA SOIL PREPARATION, SEE DETAIL 5 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
2. ALL SEED AREAS TO RECEIVE SEED SOIL PREPARATION, SEE DETAIL 6 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
3. ALL PLANTING STRIPS TO RECEIVE PLANTING STRIP TREATMENT, SEE DETAIL 4 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN. PLANTING STRIPS DEFINED AS PLANTING AREAS BETWEEN CURB AND SIDEWALK OR PLANTING AREAS BETWEEN CURBS, UNLESS OTHERWISE NOTED OR AREA IS A BIORETENTION PLANTING AREA.
4. FOR SOIL PREPARATION IN BIORETENTION CELLS AND MODULAR WETLAND SYSTEMS, SEE DRAINAGE DWGS.
5. LIMITS OF PLANTING TO EQUAL LIMITS OF CONSTRUCTION DISTURBANCE. MEET AND MATCH ADJACENT EXISTING GRADES WITH A SMOOTH TRANSITION.

RFI 307 -

1. The bottom elevation is referring to the finished grade of the bottom elevation of the swale and is consistent for the entire section.
2. The point table refers to the bottom elevation at the point where the slope starts.
3. The areas between the swales is sloped and prepped for planting per sheet C09.55.
4. The intent of the 6" drain pipes is to connect the swale cells and convey water between the cells. The pipes should be set at the elevations shown which corresponds to the top of the 3" mulch layer.
5. The underdrain is set based on typical section 2/C07.37 which is generally 3' below the bottom elevation of the cell, and the underdrain is flat, like the cell bottom. The lowest cell is 17.5 which corresponds to an underdrain elevation of 14.5. In order to tie into the catch basin at elevation 15.5 the underdrain pipe will need to be raised for all three cells as shown in the attached drawing



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_55.dlv				LAST PRINTED BY:		FED.AID PROJ.NO.	
PRINTED: 2:20:07 PM 1/8/2019				BHADDOX		WA-2017-007-00	
SUBMITTAL DATE: 09/21/18				12/22/17		REGION NO. STATE	
DESIGNED BY: J. VONG				12/22/17		10 WASH	
ENTERED BY: B. HADDOX				12/22/17		JOB NUMBER	
CHECKED BY: D. KOONTIS				12/22/17		18W121	
MAR PROJ ENGR: C. TORRES						CONTRACT NO.	
DIR TERM ENGR: N. MCINTOSH						00****	
ASST SECRETARY: A. SCARTON				CHANGE ORDER		DATE	
				REVISION		BY	



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PLANTING PLAN

C09.55  
SHEET  
245  
OF  
1521  
SHEETS



NOTES:

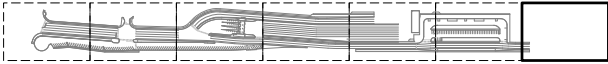
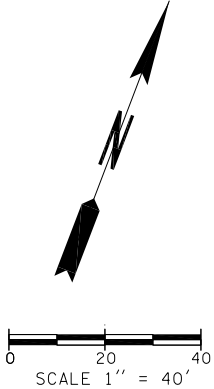
1. ALL PLANTING AREAS TO RECEIVE PLANTING AREA SOIL PREPARATION, SEE DETAIL 5 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
2. ALL SEED AREAS TO RECEIVE SEED SOIL PREPARATION, SEE DETAIL 6 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN.
3. ALL PLANTING STRIPS TO RECEIVE PLANTING STRIP TREATMENT, SEE DETAIL 4 DWG C09.60, UNLESS OTHERWISE NOTED ON THE PLAN. PLANTING STRIPS DEFINED AS PLANTING AREAS BETWEEN CURB AND SIDEWALK OR PLANTING AREAS BETWEEN CURBS, UNLESS OTHERWISE NOTED OR AREA IS A BIORETENTION PLANTING AREA.
4. FOR SOIL PREPARATION IN BIORETENTION CELLS AND MODULAR WETLAND SYSTEMS, SEE DRAINAGE DWGS.
5. LIMITS OF PLANTING TO EQUAL LIMITS OF CONSTRUCTION DISTURBANCE. MEET AND MATCH ADJACENT EXISTING GRADES WITH A SMOOTH TRANSITION.

MATCH TO C09.55

END PROJECT  
TF 125+74.87 =  
MT BAKER 61+89.00

FIRST STREET

FOR WALL & SLOPE DETAILS,  
SEE SHEET C15.22



KEY PLAN



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_56.dlv									
PRINTED: 1:35:13 PM 1/15/2019		LAST PRINTED BY: BHADDOX		FED.AID PROJ.NO.					
SUBMITTAL DATE: 1/18/19		DESIGNED BY: J. VONG		1/18/19		WA-2017-007-00			
ENTERED BY: B. HADDOX		1/18/19		REGION NO. STATE		10 WASH			
CHECKED BY: D. KOONTZ		1/18/19		JOB NUMBER		18W121			
MAR PROJ ENGR: C. TORRES				CONTRACT NO.		00*****			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS		1/18/19		BH			
ASST SECRETARY: A. SCARTON		REVISION		DATE		BY			

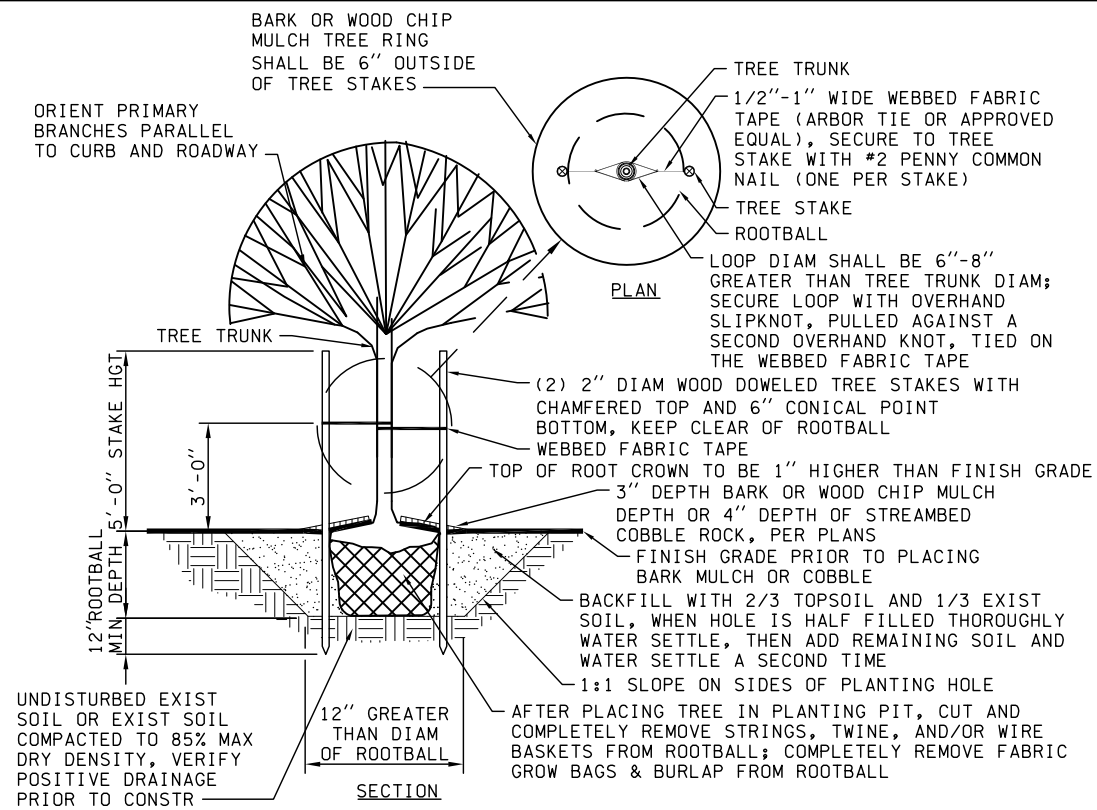


SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PLANTING PLAN

C09.56  
SHEET  
246  
OF  
1521  
SHEETS

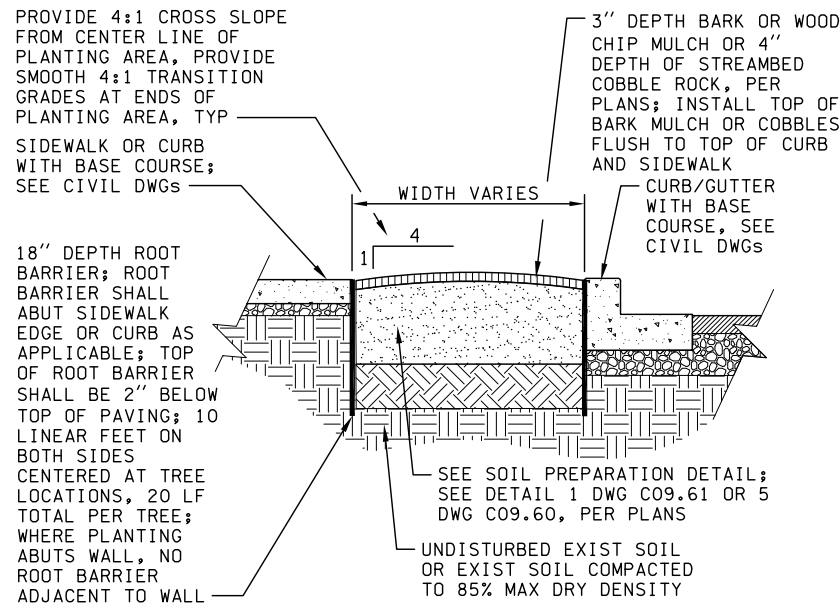




## 1 DECIDUOUS TREE PLANTING

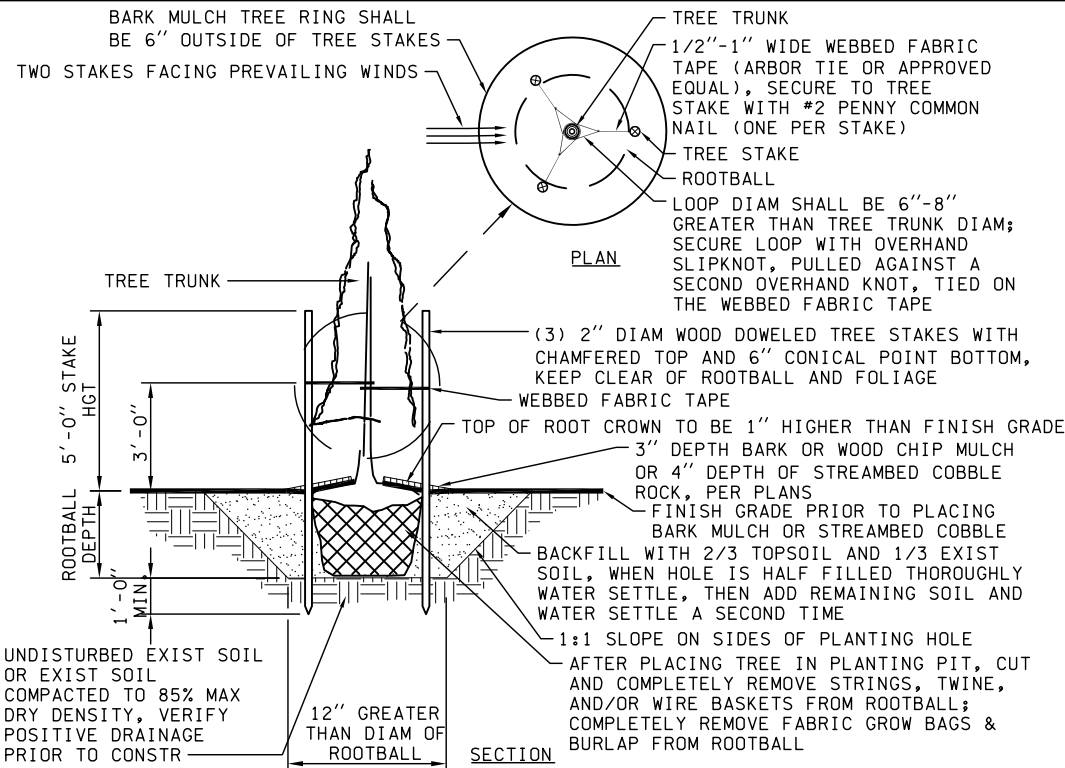
C09.50 NOT TO SCALE

C09.51  
C09.52  
C09.53  
C09.54  
C09.55  
C09.56



## 4 PLANTING STRIP

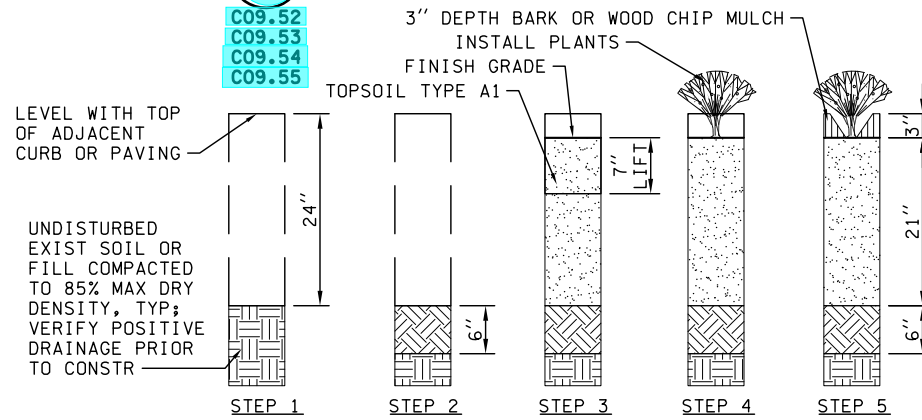
C09.40 NOT TO SCALE



## 2 CONIFEROUS TREE PLANTING

C09.50 NOT TO SCALE

C09.52  
C09.53  
C09.54  
C09.55



**STEP 1**  
EXCAVATE EXIST SOIL TO 24" DEPTH BELOW ADJACENT CURB OR PAVING. AVOID UNDERMINING ADJACENT CURB OR PAVING SUBBASE. REMOVE SUBBASE FILL MATERIAL FROM PLANTING AREA AND PROVIDE PERCOLATION TEST PRIOR TO PROCEEDING TO STEP 2.

**STEP 2**  
(OMIT IN PLANTING AREAS ADJACENT TO WALLS 1, 2, & 3, SEE RETAINING WALL PLANS) SCARIFY MIN 6" DEPTH EXISTING SOIL. ENGR SHALL REVIEW AND APPROVE WORK PRIOR TO PROCEEDING TO STEP 4.

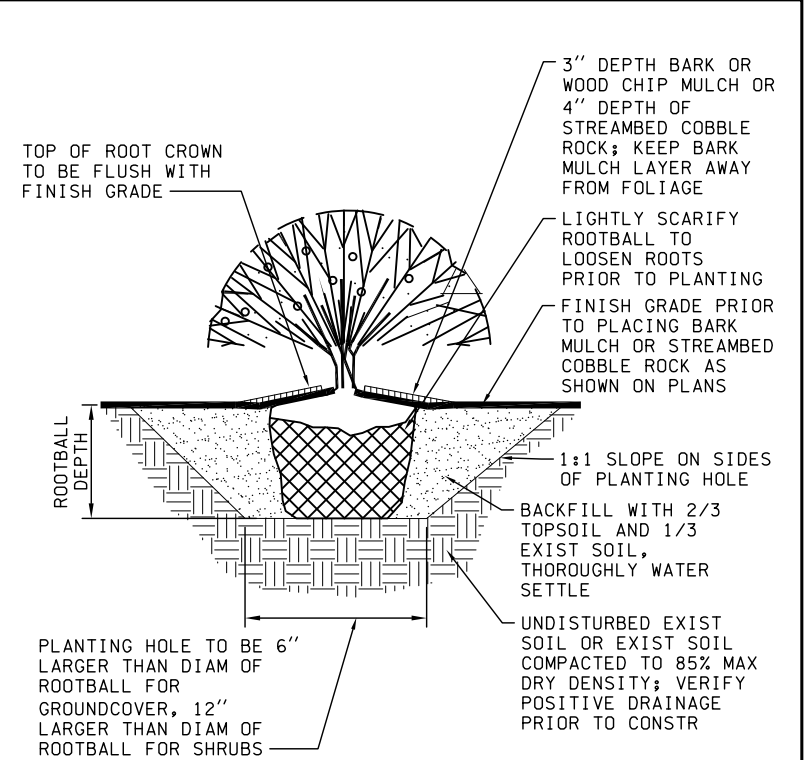
**STEP 3**  
INSTALL MIN COMPACTED 21" DEPTH OF TOPSOIL TYPE A1 IN 7" LIFTS. INSTALL FIRST LIFT OF SOIL AND INCORPORATE INTO 6" OF SCARIFIED SOIL (WHERE APPLICABLE) PRIOR TO INSTALLING FURTHER LIFTS. WATER SETTLE/ COMPACT EACH LIFT PRIOR TO INSTALLING THE NEXT LIFT. REVIEW FINISH GRADE AND COMPACTION WITH ENGINEER PRIOR TO PLANTING.

**NOTE:** FOR AREAS WHERE SLOPE IS EQUAL TO OR GREATER THAN 3:1, PROVIDE EROSION CONTROL FABRIC PRIOR TO STEP 4 PER WSDOT STANDARD DETAIL 1-60.10.01.

**STEP 4**  
INSTALL PLANTS. FOR AREAS WITH EROSION CONTROL FABRIC, CUT SLITS IN FABRIC TWICE AS LONG AS DIAM OF ROOTBALL PARALLEL TO SLOPE, FOLD FABRIC OVER PLANT ROOTBALLS.

**STEP 5**  
INSTALL 3" DEPTH BARK OR WOOD CHIP MULCH. INSTALL TOP OF BARK MULCH FLUSH WITH TOP OF ADJACENT CURB OR PAVING.

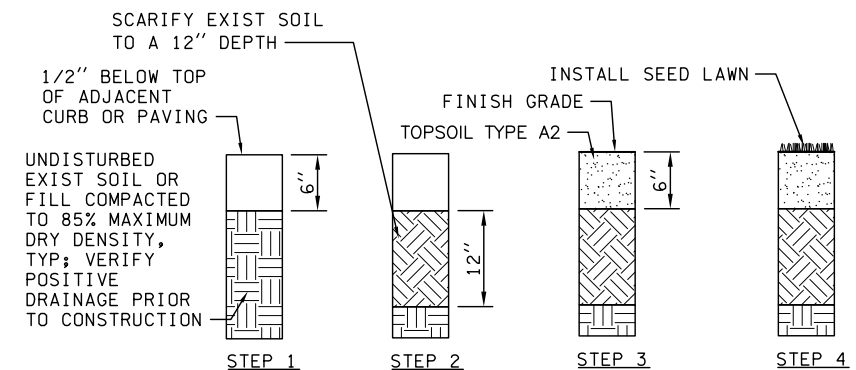
**NOTES**  
1. ALL DIMENSIONS INDICATE COMPACTED DEPTHS.



## 3 GROUNDCOVER AND SHRUB PLANTING

C09.50 NOT TO SCALE

C09.51  
C09.52  
C09.53  
C09.54  
C09.55  
C09.56



**STEP 1**  
EXCAVATE EXIST SOIL TO 6.5" DEPTH BELOW ADJACENT CURB OR PAVING. AVOID UNDERMINING ADJACENT CURB OR PAVING SUBBASE MATERIAL. REMOVE SUBBASE FILL MATERIAL FROM SEED LAWN AREA AND PROVIDE PERCOLATION TEST, PRIOR TO PROCEEDING TO STEP 2.

**STEP 2**  
SCARIFY EXIST SOIL TO A MIN 12" DEPTH. ENGR SHALL REVIEW & APPROVE WORK PRIOR TO PROCEEDING TO STEP 3.

**STEP 3**  
INSTALL MIN 6" DEPTH OF TOPSOIL TYPE A2. WATER SETTLE. REVIEW FINISH GRADE AND COMPACTION WITH ENGR PRIOR TO SEEDING.

**STEP 4**  
INSTALL SEED LAWN.

**NOTES**  
1. ALL DIMS INDICATE COMPACTED DEPTHS.

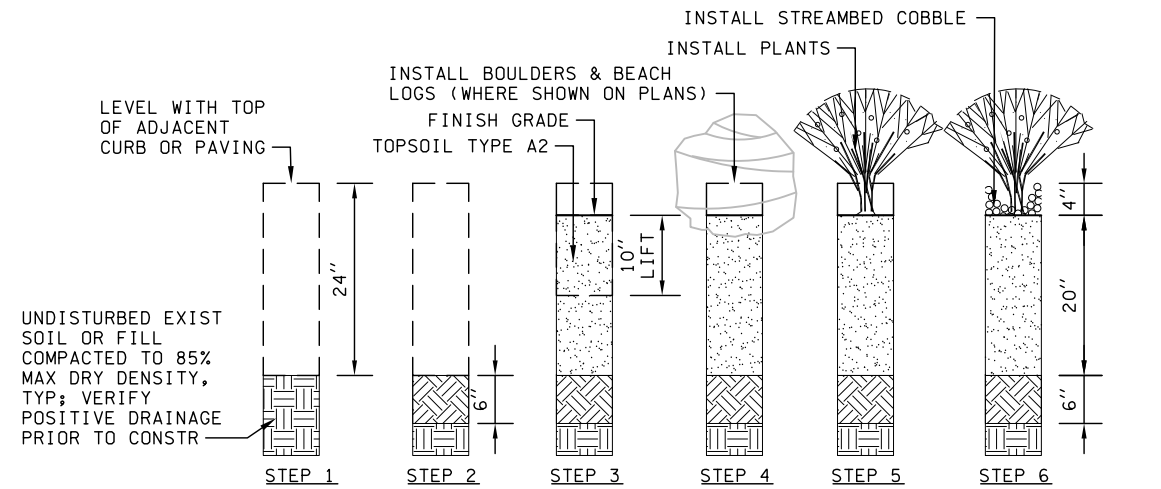


FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_60.dwg					
PRINTED: 1:35:19 PM	1/15/2019	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		BHADDOX			WA-2017-007-00
DESIGNED BY: J. VONG	1/18/19				REGION NO. STATE
ENTERED BY: B. HADDOX	1/18/19				10 WASH
CHECKED BY: D. KOONTS	1/18/19				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	BH	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION		DATE	BY
					00*****



SR525	C09.60
MUKILTEO FERRY TERMINAL (PHASE 2)	SHEET
FERRY TERMINAL CONSTRUCTION	247
PLANTING DETAILS	OF
	1521
	SHEETS

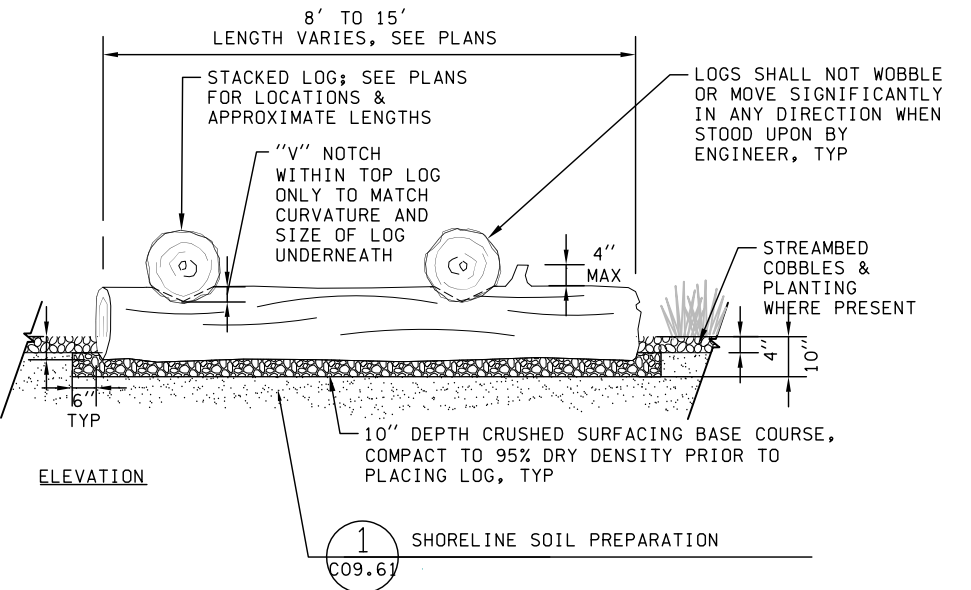
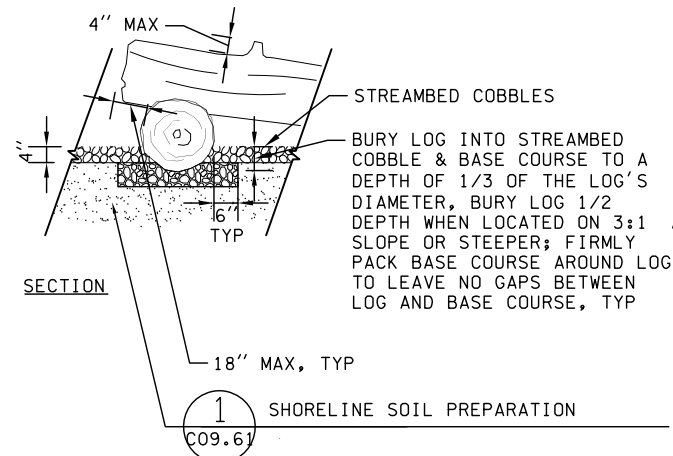




- STEP 1**  
EXCAVATE EXIST SOIL TO 24" DEPTH BELOW ADJACENT CURB OR PAVING. AVOID UNDERMINING ADJACENT CURB OR PAVING SUBBASE. REMOVE SUBBASE FILL MATERIAL FROM PLANTING AREA AND PROVIDE PERCOLATION TEST PRIOR TO PROCEEDING TO STEP 2.
- STEP 2 (OMIT IN PLANTING AREAS ADJACENT TO WALLS 5, AND 7, SEE RETAINING WALL PLANS)**  
SCARIFY SUBGRADE SOIL TO A MIN 6" DEPTH. ENGR SHALL REVIEW AND APPROVE WORK PRIOR TO PROCEEDING TO STEP 3.
- STEP 3**  
INSTALL MIN 20" COMPACTED DEPTH OF TOPSOIL TYPE A2 IN 10" LIFTS. INSTALL FIRST LIFT OF SOIL AND INCORPORATE INTO 6" OF SCARIFIED SOIL (WHERE APPLICABLE) PRIOR TO INSTALLING FURTHER LIFTS. WATER SETTLE/COMPACT EACH LIFT PRIOR TO INSTALLING THE NEXT LIFT. REVIEW FINISH GRADE AND COMPACTION WITH ENGR PRIOR TO PLANTING.  
NOTE: FOR AREAS WHERE SLOPE IS EQUAL TO OR GREATER THAN 3:1, PROVIDE EROSION CONTROL FABRIC PRIOR TO STEP 4 PER WSDOT STANDARD DETAIL 1-60.10-01.
- STEP 4**  
INSTALL BOULDERS & BEACH LOGS AS SHOWN ON PLANS.
- STEP 5**  
INSTALL PLANTS.
- STEP 6**  
INSTALL 4" DEPTH OF STREAMBED COBBLES; INSTALL TOP OF COBBLE FLUSH WITH TOP OF ADJACENT CURB OR PAVING; KEEP COBBLE CLEAR FROM CRUSHING PLANT MATERIAL

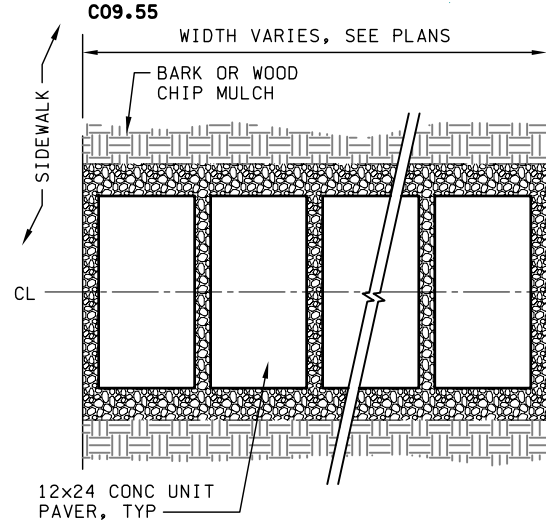
- NOTES**
1. ALL DIMENSIONS INDICATE COMPACTED DEPTHS.
  2. AVOID DISTURBING MSE WALL REINFORCEMENTS.

**NOTE:**  
1. LOCATE LOGS APPROXIMATELY AS SHOWN ON PLAN. ENGINEER TO APPROVE FINAL LAYOUT & ORIENTATION IN FIELD.

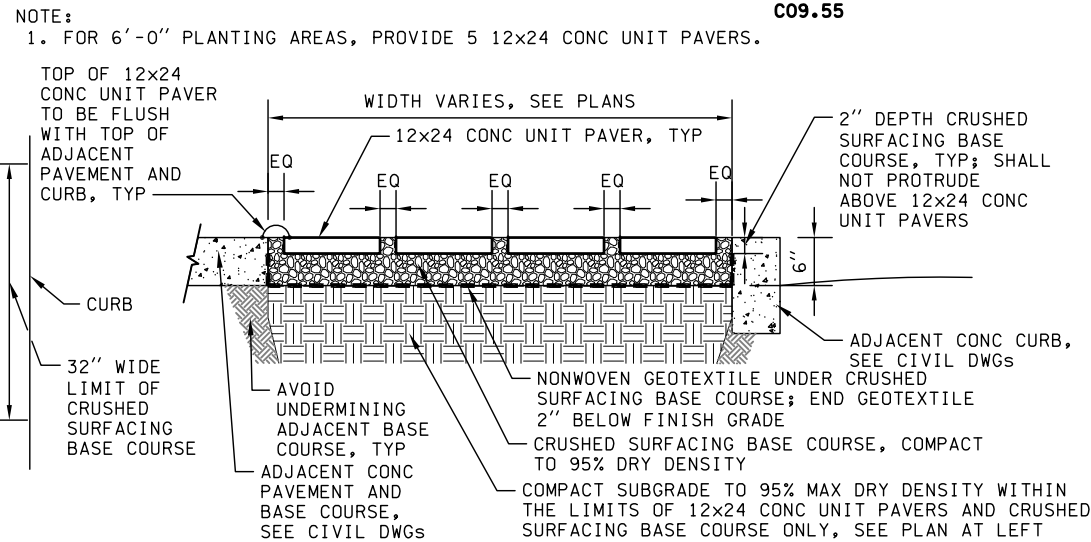


## 1 SHORELINE SOIL PREPARATION

C09.61 NOT TO SCALE  
C09.53  
C09.54  
C09.55



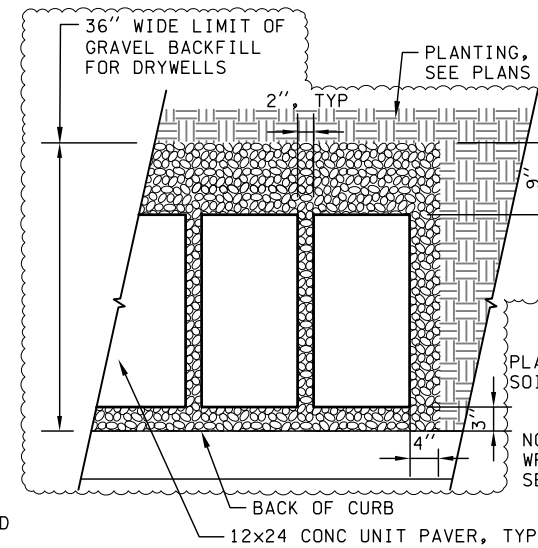
PLAN AT SR 525



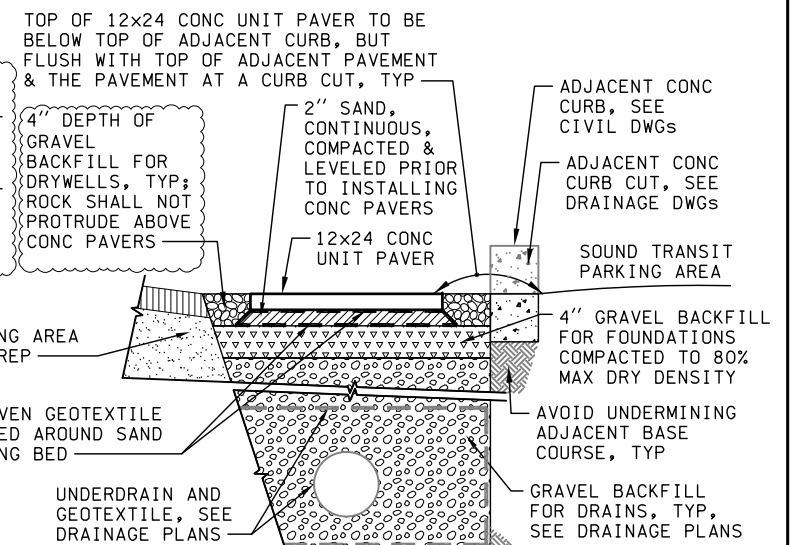
SECTION AT SR 525

## 4 BEACH LOG INSTALLATION

C09.52 NOT TO SCALE  
C09.53  
C09.54  
C09.55



PLAN AT SOUNDER STATION PARKING AREA



SECTION AT SOUNDER STATION PARKING AREA

## 2 CONCRETE UNIT PAVER INSTALLATION

C09.50 NOT TO SCALE  
C09.51  
C09.52

FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14W121c09_61.dwg				
PRINTED: 9:47:09 AM	12/11/2019	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 09/21/18		PMAGNNITY		WA-2017-007-00
DESIGNED BY: J. VONG	12/22/17			REGION NO. STATE
ENTERED BY: B. HADDOX	12/22/17			10 WASH
CHECKED BY: D. KOONTS	12/22/17			JOB NUMBER
MAR PROJ ENGR: C. TORRES				14W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00*****
CHANGE ORDER-PAVER REV	12/10/19	PM		
REVISION				
DATE				
BY				

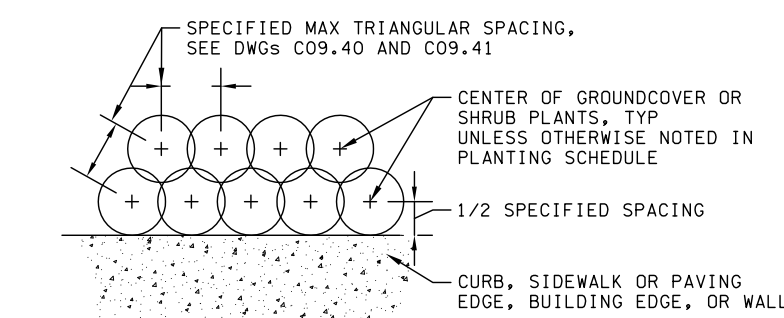


SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PLANTING DETAILS

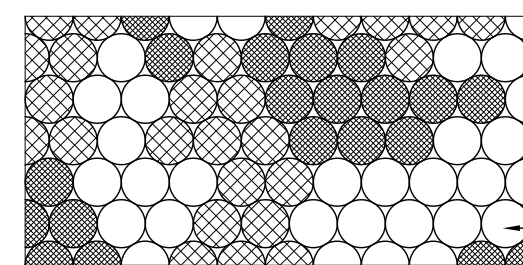


C09.61  
SHEET  
248  
OF  
1521  
SHEETS



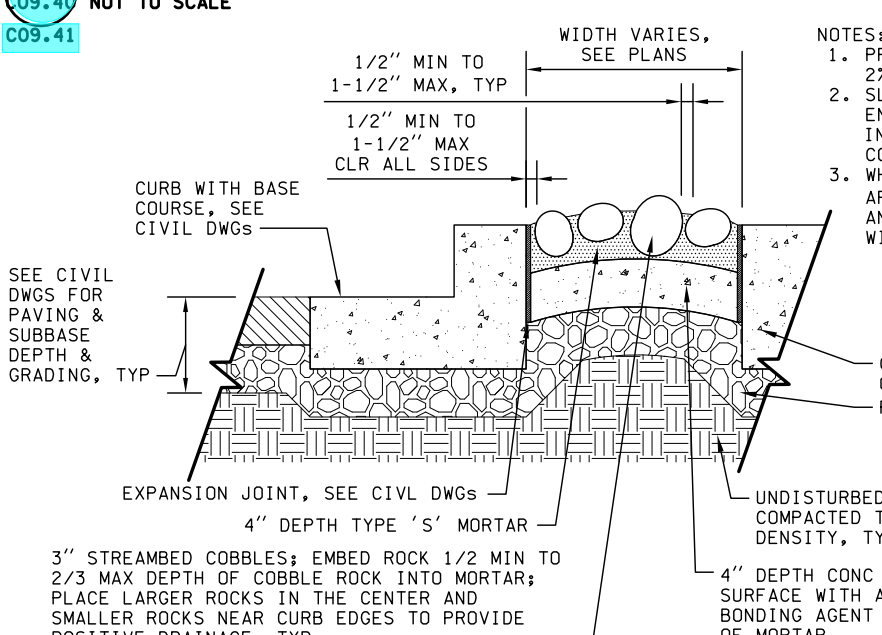


1 GROUND COVER & SHRUB LAYOUT  
C09.40 NOT TO SCALE  
C09.41

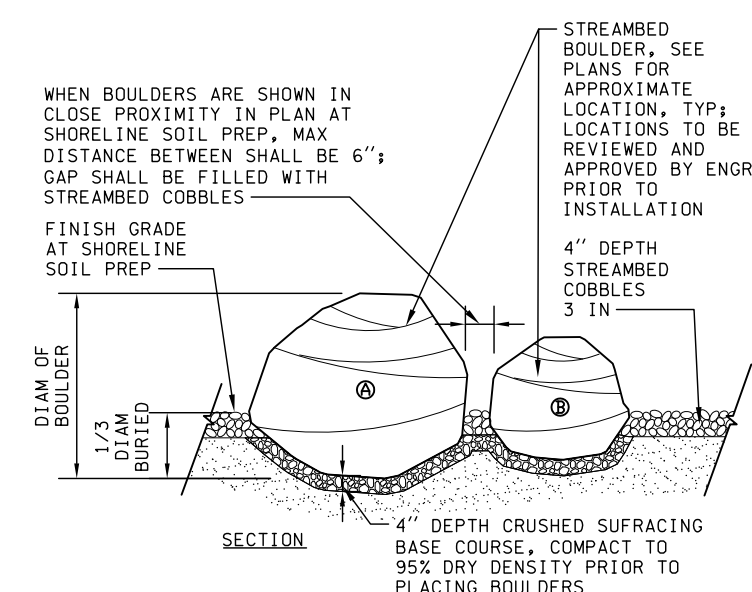


2 SAMPLE IRREGULAR PLANT ARRANGEMENT  
C09.40 NOT TO SCALE  
C09.41

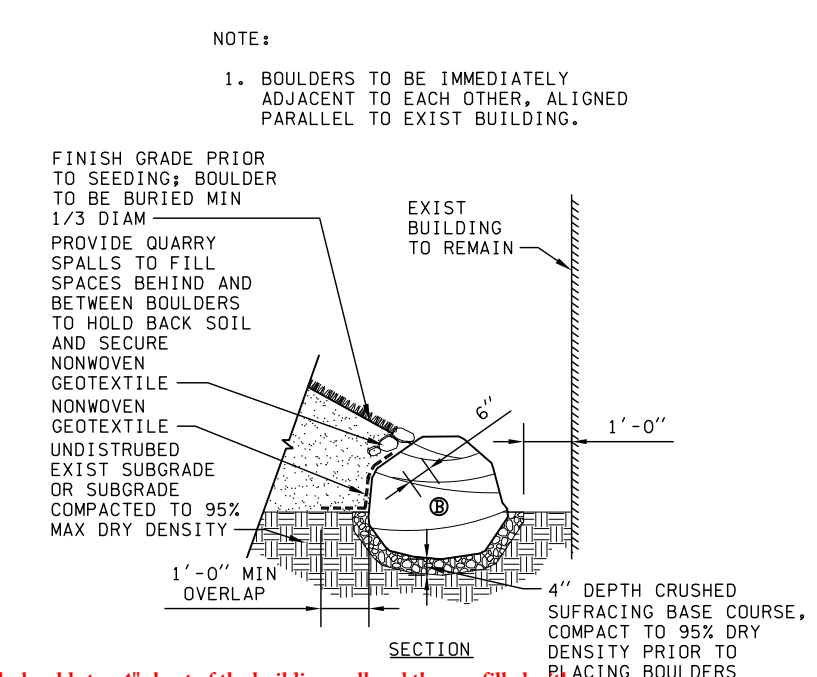
2 SAMPLE IRREGULAR PLANT ARRANGEMENT  
C09.40 NOT TO SCALE  
C09.41



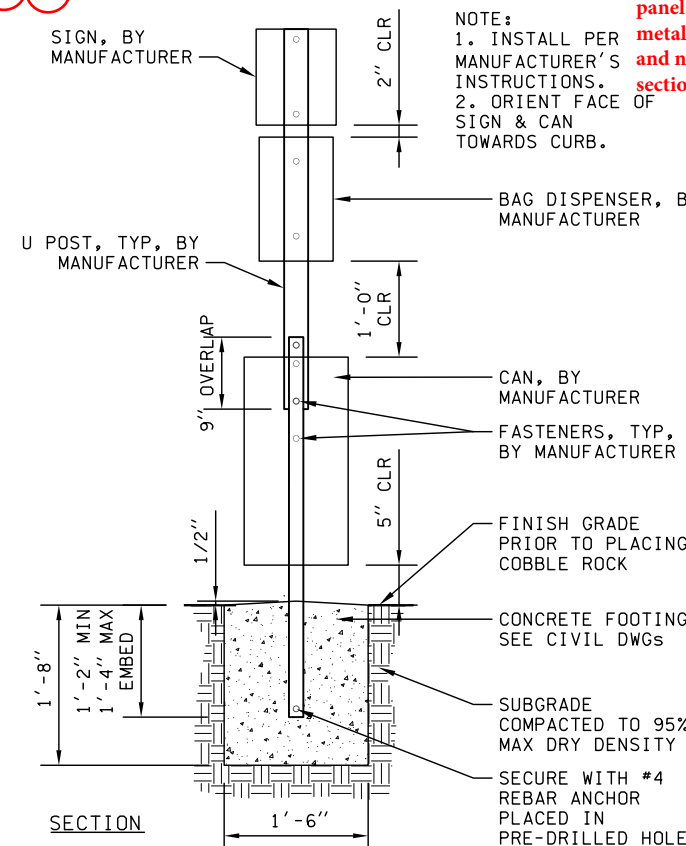
3 GRAVEL EDGE AT BUILDING  
C09.62 NOT TO SCALE



4 STREAMBED BOULDER INSTALLATION  
C09.52 NOT TO SCALE  
C09.53  
C09.54  
C09.55

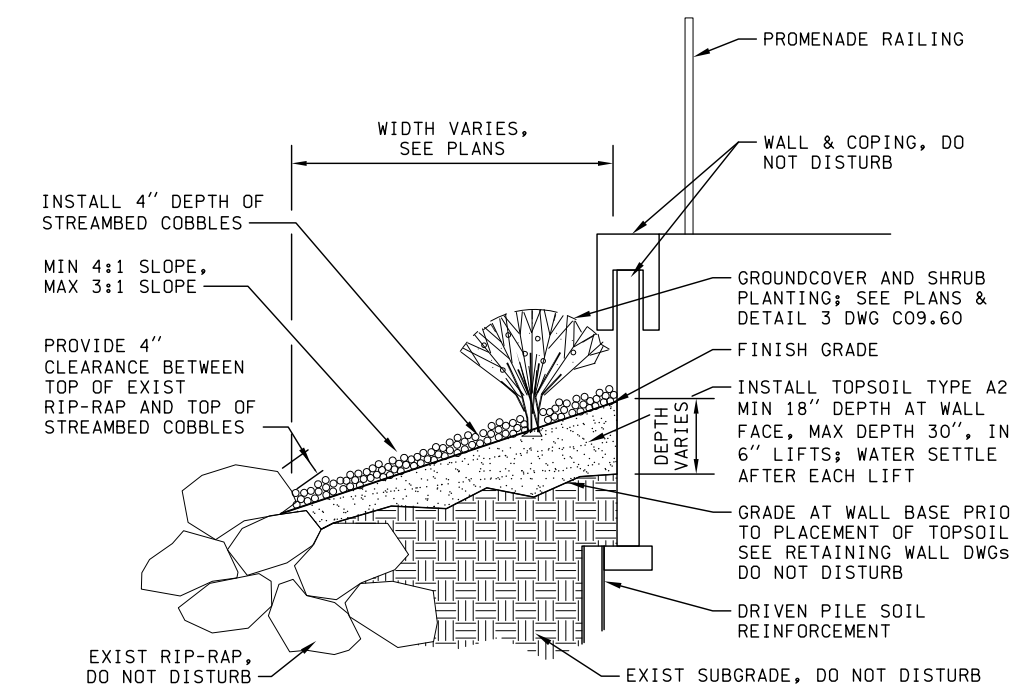


5 ROCKERY WALL  
C09.53 NOT TO SCALE



6 STREAMBED COBBLES 3 IN EMBEDDED IN CONC  
C09.50 NOT TO SCALE  
C09.52  
C09.55

7 DOG MITT STATION INSTALLATION  
C09.53 NOT TO SCALE  
C09.54  
C09.55



8 RIP-RAP AREA SOIL PREPARATION  
C09.53 NOT TO SCALE

FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c09_62.dwg				
PRINTED: 1:35:32 PM	1/15/2019	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		BHADDOX		WA-2017-007-00
DESIGNED BY: J. VONG	1/18/19			REGION NO. STATE
ENTERED BY: B. HADDOX	1/18/19			10 WASH
CHECKED BY: D. KOONTS	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY
				00*****

Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

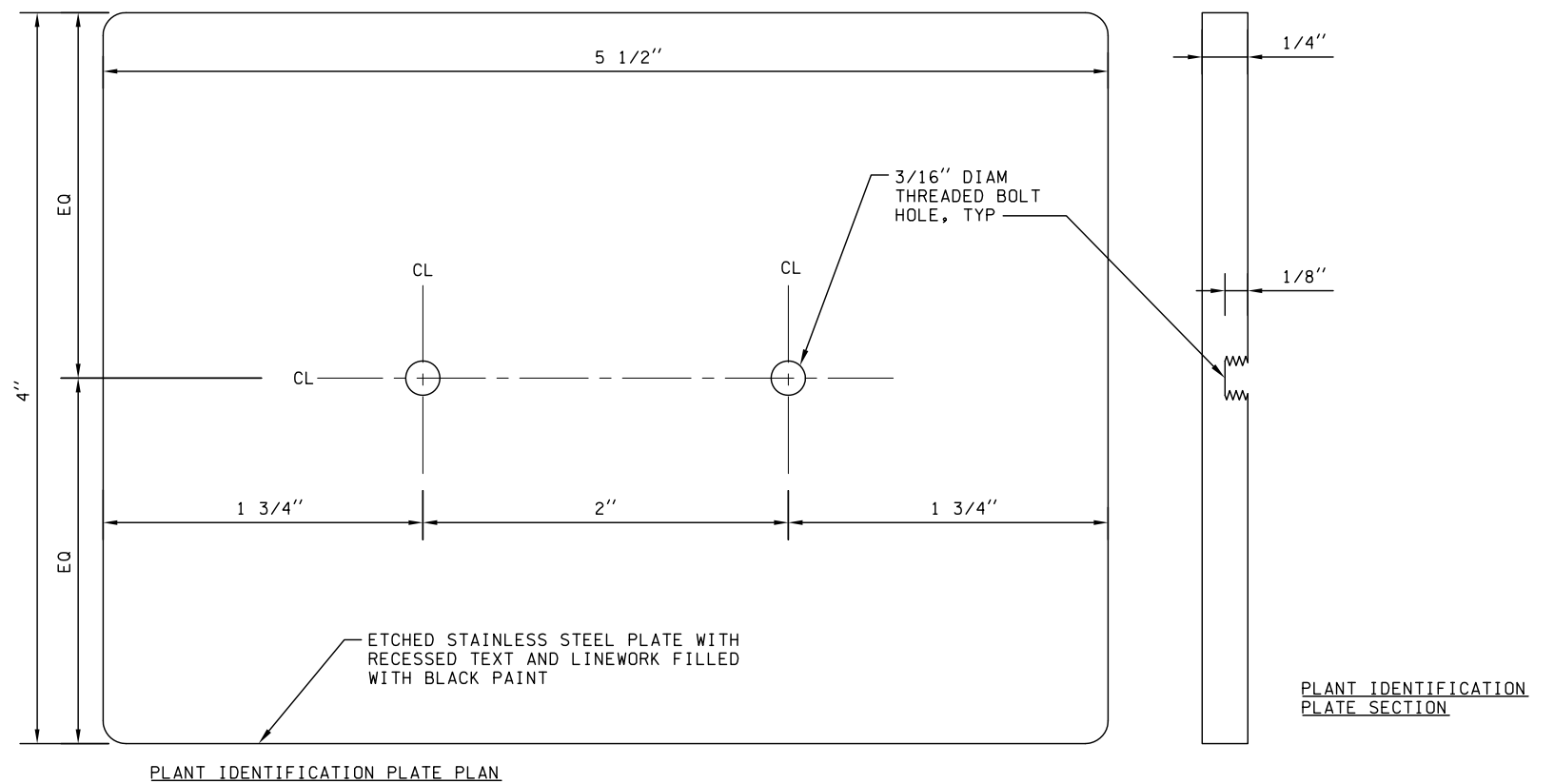
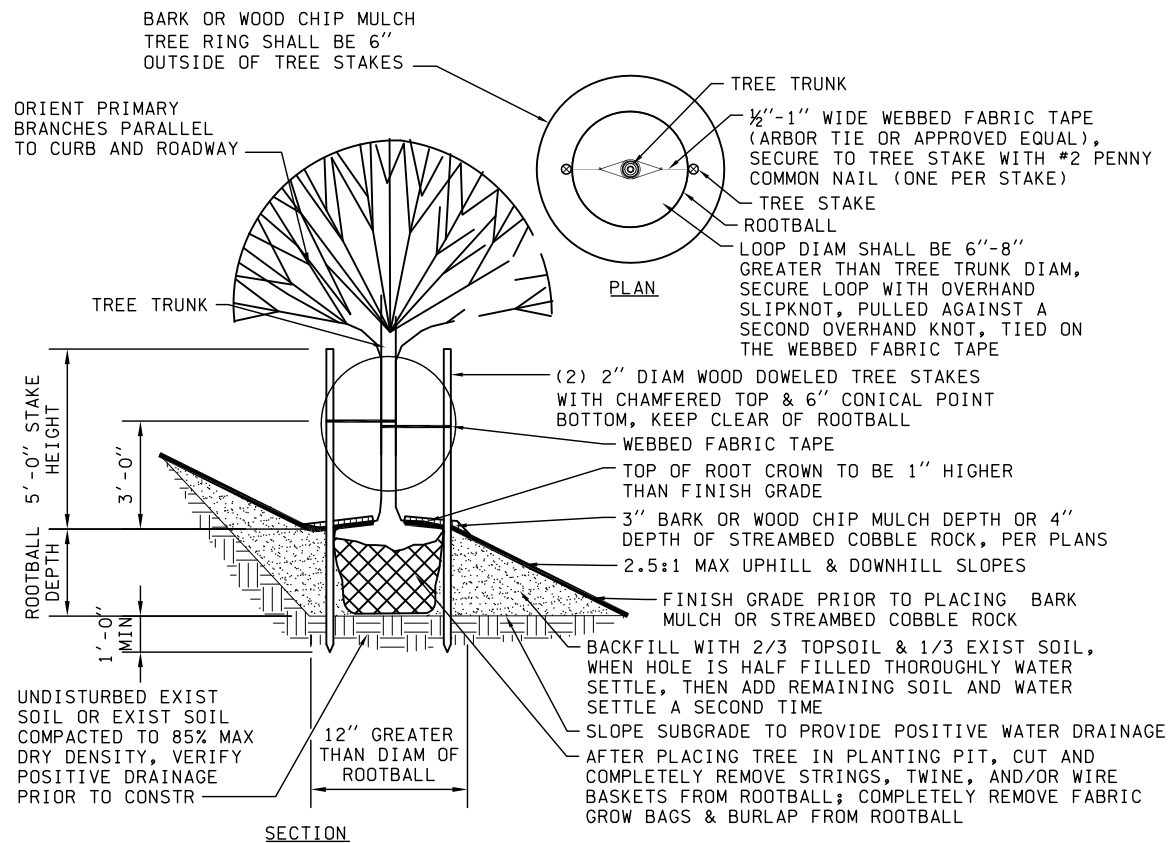
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PLANTING DETAILS

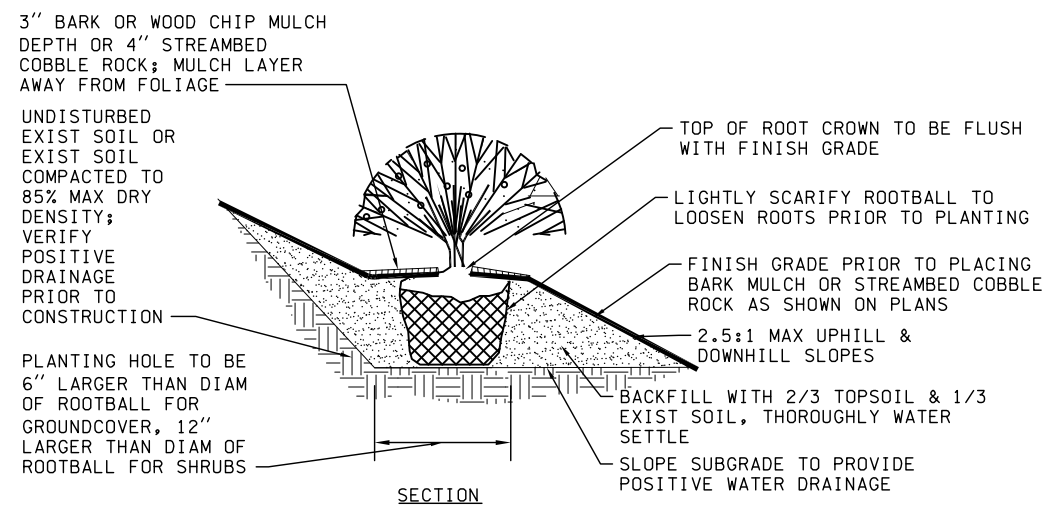
C09.62

SHEET  
249  
OF  
1521  
SHEETS

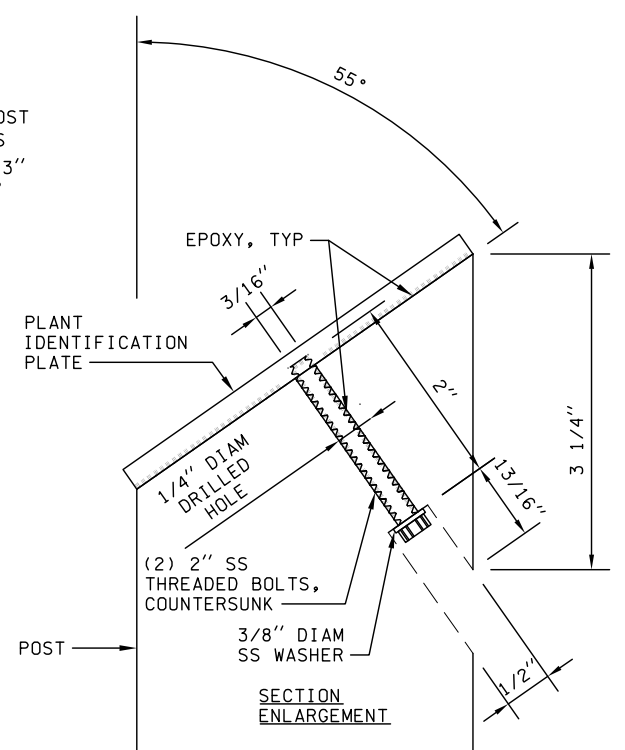
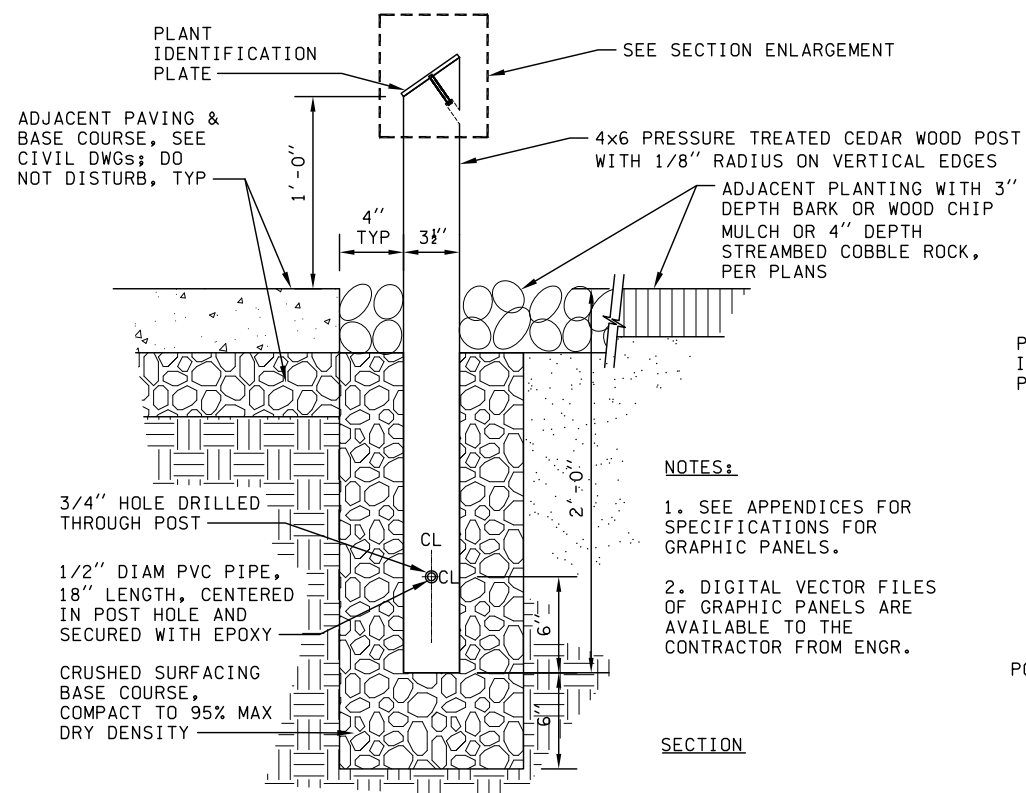




# **1 DECIDUOUS TREE PLANTING ON A SLOPE** C09.52 NOT TO SCALE



# **2 GROUNDCOVER & SHRUB PLANTING ON A SLOPE** C09.52 NOT TO SCALE



# **3 PLANT IDENTIFICATION SIGN** C09.63 NOT TO SCALE

FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c09_63.dwg					
PRINTED: 1:35:38 PM	1/15/2019	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE:	1/18/19	BHADDOX			WA-2017-007-00
DESIGNED BY:	J. VONG	1/18/19			REGION NO. STATE
ENTERED BY:	B. HADDOX	1/18/19			10 WASH
CHECKED BY:	D. KOONTS	1/18/19			JOB NUMBER
MAR PROJ ENGR:	C. TORRES				18W121
DIR TERM ENGR:	N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY:	A. SCARTON		REVISION	DATE	BY
					00*****



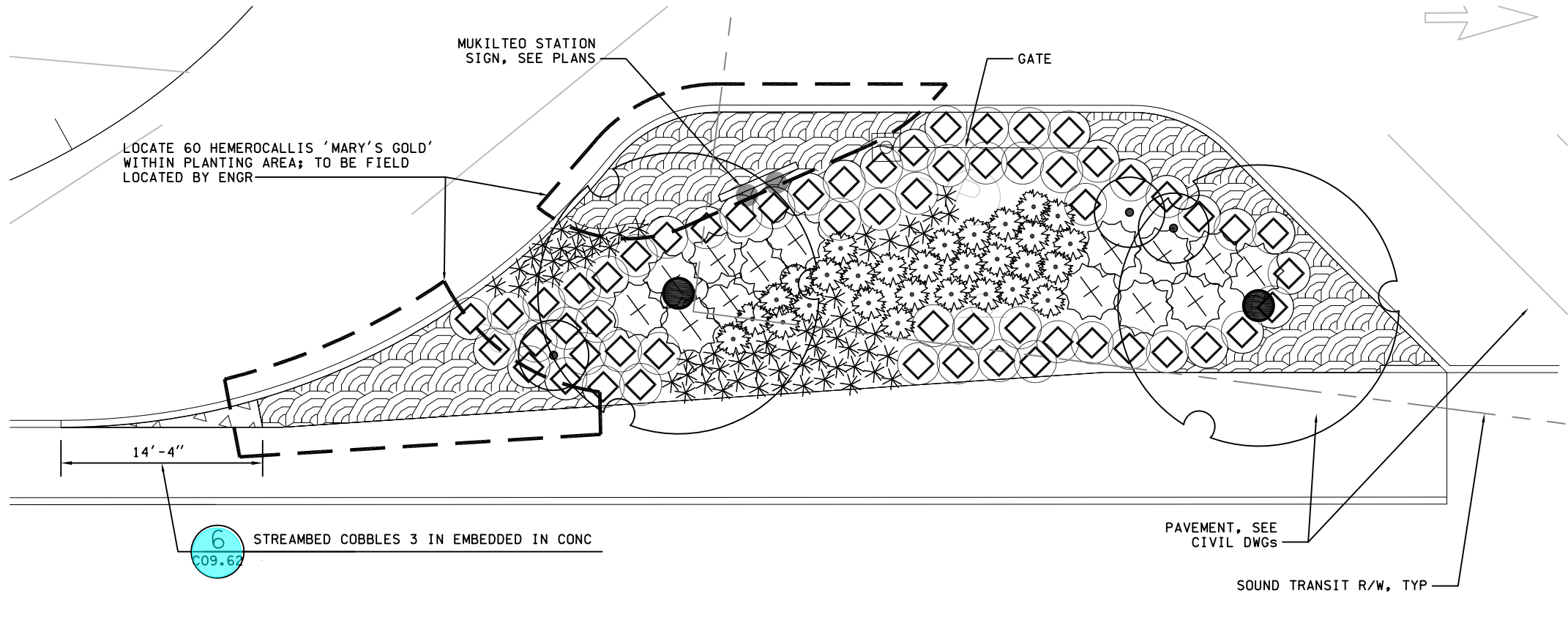
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PLANTING DETAILS

C09.63  
SHEET  
250  
OF  
1521  
SHEETS

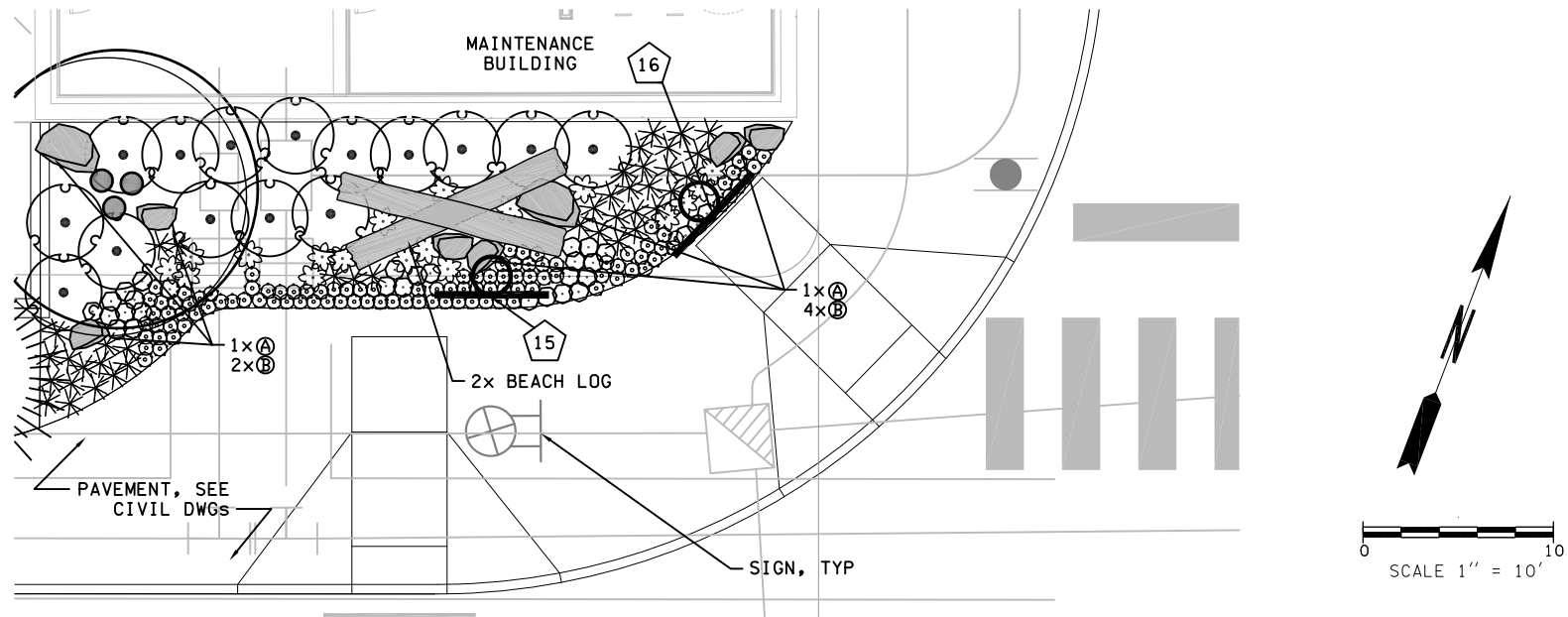






## 1 PLANTING ENLARGEMENT 1

NOT TO SCALE



## 2 PLANTING ENLARGEMENT 2

NOT TO SCALE



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c09_64.dwg					
PRINTED: 1:35:49 PM	1/15/2019	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE:	1/18/19	BHADDOX			WA-2017-007-00
DESIGNED BY:	J. VONG	1/18/19			REGION NO. STATE
ENTERED BY:	B. HADDOX	1/18/19			10 WASH
CHECKED BY:	D. KOONTS	1/18/19			JOB NUMBER
MAR PROJ ENGR:	C. TORRES				18W121
DIR TERM ENGR:	N. MCINTOSH				CONTRACT NO.
ASST SECRETARY:	A. SCARTON				00*****
		CONFORMED PLANS	1/18/19	BH	
		REVISION	DATE	BY	



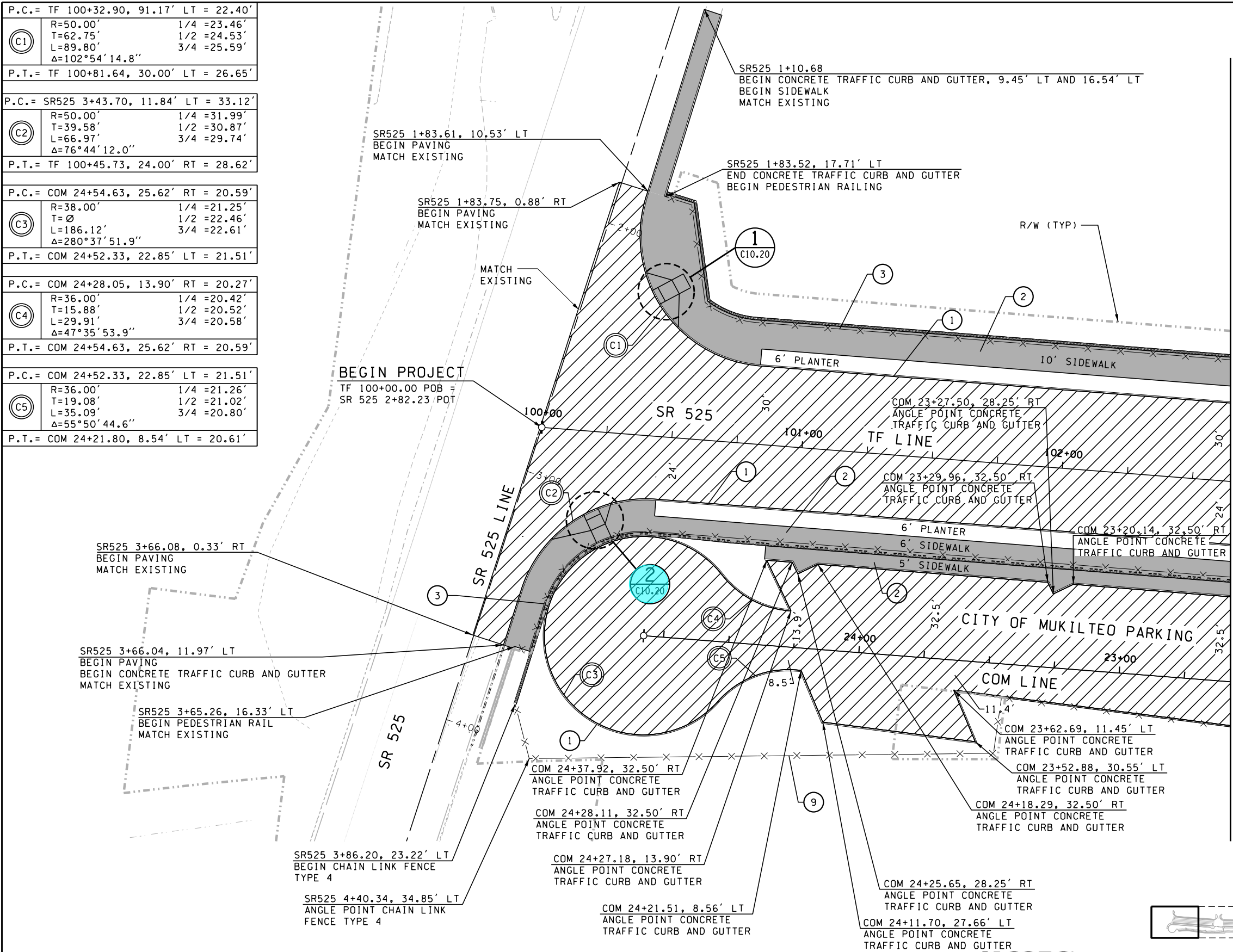
SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PLANTING ENLARGEMENTS

C09.64  
SHEET  
251  
OF  
1521  
SHEETS



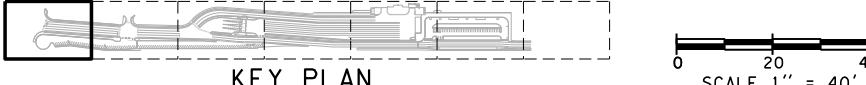
P.C.= TF 100+32.90, 91.17' LT = 22.40'		
C1	R=50.00'	1/4 =23.46'
	T=62.75'	1/2 =24.53'
	L=89.80'	3/4 =25.59'
	Δ=102°54' 14.8"	
P.T.= TF 100+81.64, 30.00' LT = 26.65'		
P.C.= SR525 3+43.70, 11.84' LT = 33.12'		
C2	R=50.00'	1/4 =31.99'
	T=39.58'	1/2 =30.87'
	L=66.97'	3/4 =29.74'
	Δ=76°44' 12.0"	
P.T.= TF 100+45.73, 24.00' RT = 28.62'		
P.C.= COM 24+54.63, 25.62' RT = 20.59'		
C3	R=38.00'	1/4 =21.25'
	T=0	1/2 =22.46'
	L=186.12'	3/4 =22.61'
	Δ=280°37' 51.9"	
P.T.= COM 24+52.33, 22.85' LT = 21.51'		
P.C.= COM 24+28.05, 13.90' RT = 20.27'		
C4	R=36.00'	1/4 =20.42'
	T=15.88'	1/2 =20.52'
	L=29.91'	3/4 =20.58'
	Δ=47°35' 53.9"	
P.T.= COM 24+54.63, 25.62' RT = 20.59'		
P.C.= COM 24+52.33, 22.85' LT = 21.51'		
C5	R=36.00'	1/4 =21.26'
	T=19.08'	1/2 =21.02'
	L=35.09'	3/4 =20.80'
	Δ=55°50' 44.6"	
P.T.= COM 24+21.80, 8.54' LT = 20.61'		



- NOTES:**
- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  - SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
  - UTILITIES NOT SHOWN FOR CLARITY.
  - ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
  - SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
  - SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
  - FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
  - SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
  - SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
  - SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
  - SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
  - COORDINATE TIE IN WITH EXISTING SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
  - RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

- LEGEND:**
- IMPERVIOUS PAVEMENT
  - TEMPORARY PAVEMENT: SIDEWALK
  - PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
  - CONCRETE SIDEWALK
  - CONCRETE PAVEMENT
  - RETAINING WALL (SEE WALL PLANS)
  - FENCE / PEDESTRIAN RAIL

- CONSTRUCTION NOTES:**
- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
  - CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
  - INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
  - INSTALL CHAIN LINK FENCE TYPE 4 PER WSDOT STD. PLAN L-20.10-3



FILE NAME: WS\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\FILES\$									
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:		FED.AID PROJ.NO.		WA-2017-007-00	
SUBMITTAL DATE: 1/18/19		#USERNAME#		1/18/19		REGION NO. STATE		10 WASH	
DESIGNED BY: M. PANICK		1/18/19		1/18/19		JOB NUMBER		18W121	
ENTERED BY: C. CONRAD		1/18/19		1/18/19		CONTRACT NO.		009321	
CHECKED BY: J. SCHENKMAN		1/18/19		1/18/19					
MAR PROJ ENGR: C. TORRES									
DIR TERM ENGR: N. MCINTOSH									
ASST SECRETARY: A. SCARTON									

WASHINGTON STATE

PROFESSIONAL ENGINEER

18W121

01/18/19

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

PAVING PLAN

C10.10

SHEET

252

OF

1521

SHEETS



# NOTES:

- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
- SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
- UTILITIES NOT SHOWN FOR CLARITY.
- ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
- SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
- SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
- FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
- SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
- SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
- SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
- SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
- COORDINATE TIE IN WITH EXISTING SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
- RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

# LEGEND:

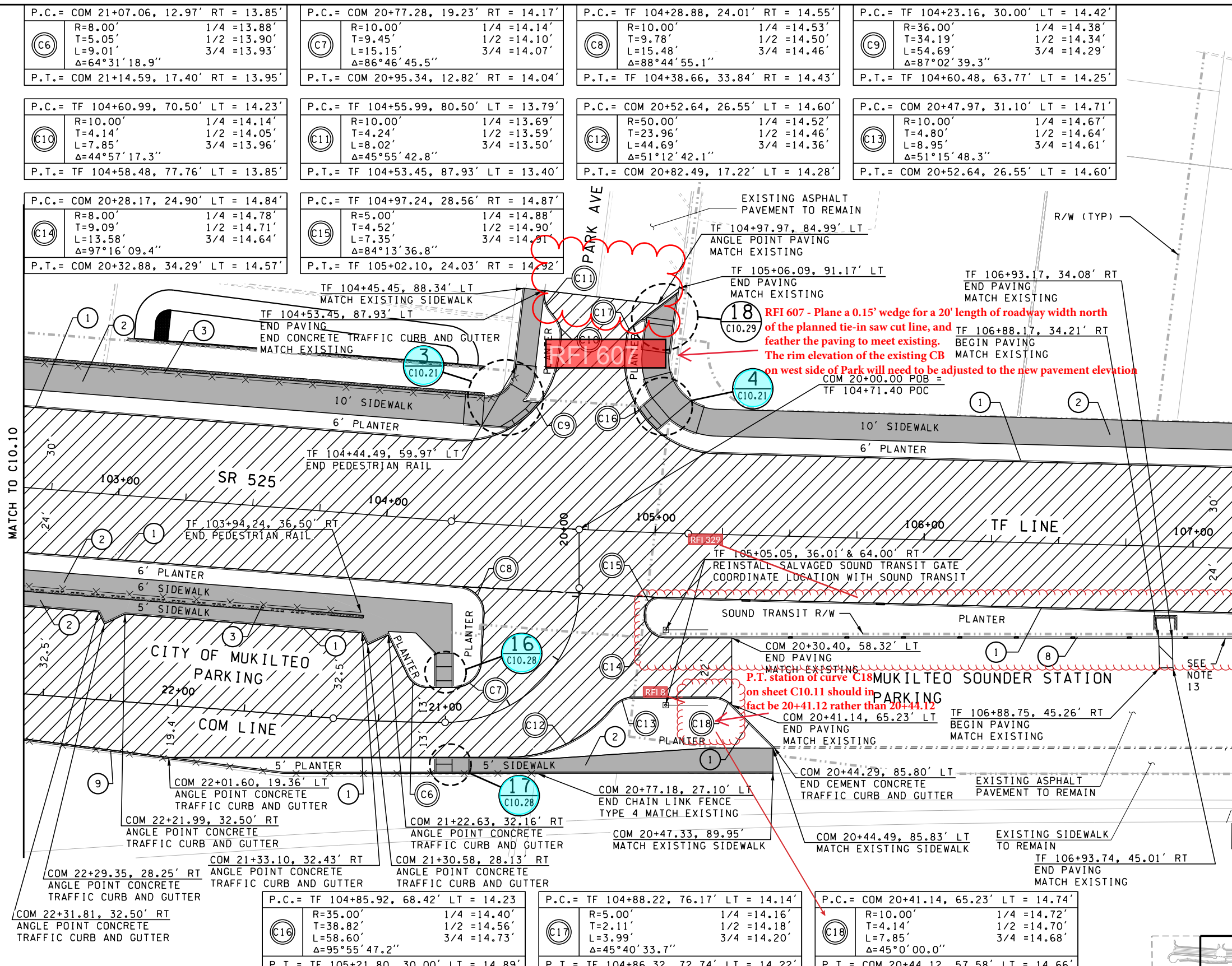
- IMPERVIOUS PAVEMENT
- TEMPORARY PAVEMENT: SIDEWALK
- PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- RETAINING WALL (SEE WALL PLANS)
- FENCE / PEDESTRIAN RAIL

# CONSTRUCTION NOTES:

- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
- CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
- INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
- INSTALL CURB CUTS PER DRAINAGE PLANS SHEETS C07.10 TO C07.16
- INSTALL CHAIN LINK FENCE TYPE 4 PER WSDOT STD. PLAN L-20.10-3

# KEY PLAN

SCALE 1" = 40'



See page C10.11B for RFI 329 notes

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				FED.AID PROJ.NO.				SR 525				C10.11A			
PRINTED: \$\$TIME\$\$ \$DATE\$				WA-2017-007-00				MUKILTEO FERRY TERMINAL (PHASE 2)				SHEET			
SUBMITTAL DATE: 1/18/19				10 WASH				FERRY TERMINAL CONSTRUCTION				253			
DESIGNED BY: M. PANICK				18W121				PAVING PLAN				OF			
ENTERED BY: C. CONRAD				CONTRACT NO. 009321								1521			
CHECKED BY: J. SCHENKMAN												SHEETS			
MAR PROJ ENGR: C. TORRES															
DIR TERM ENGR: N. MCINTOSH															
ASST SECRETARY: A. SCARTON															



# NOTES:

- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
- SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
- UTILITIES NOT SHOWN FOR CLARITY.
- ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
- SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
- SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
- FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
- SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
- SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
- SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
- SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
- COORDINATE TIE IN WITH EXISTING SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
- RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

# LEGEND:

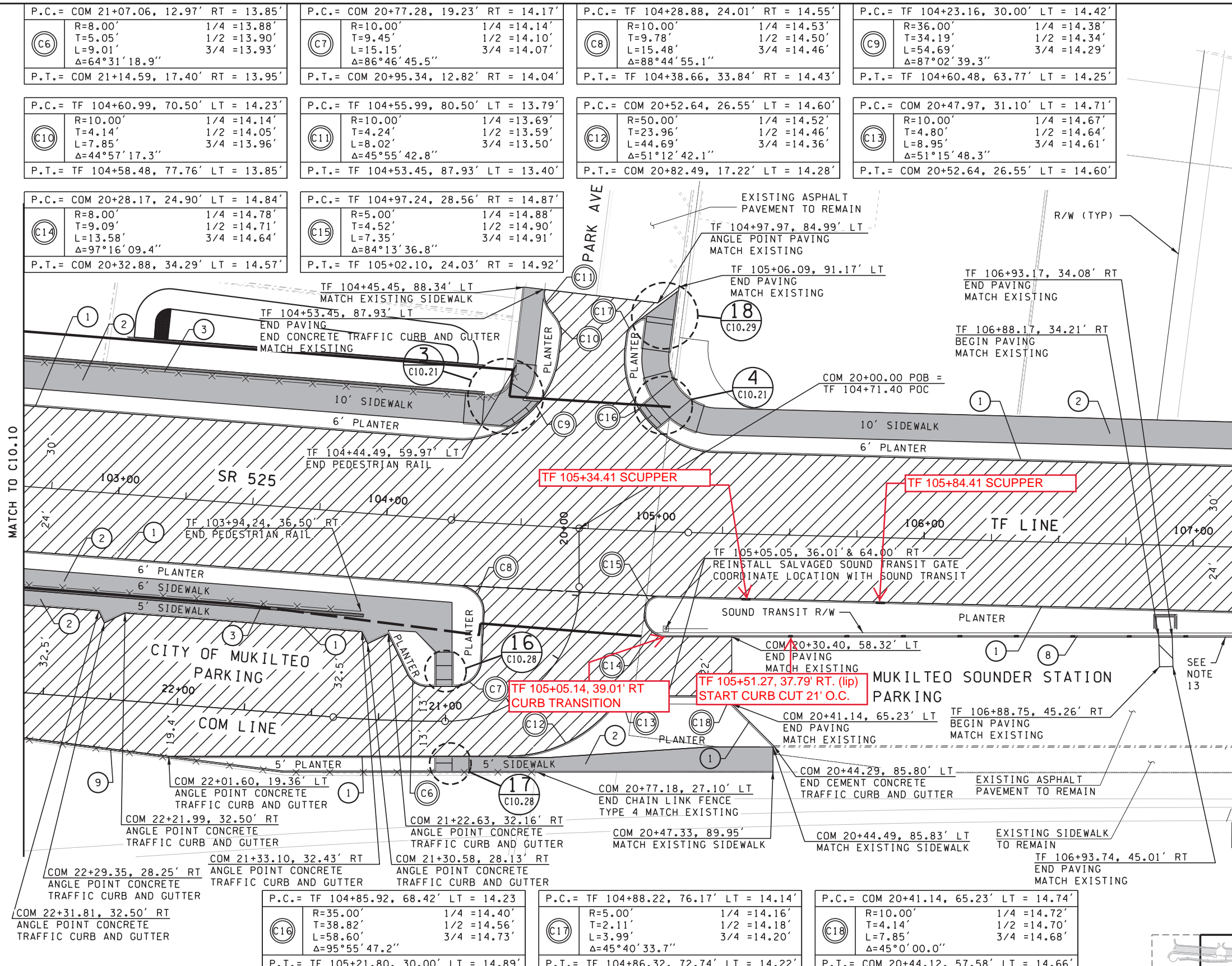
- IMPERVIOUS PAVEMENT
- TEMPORARY PAVEMENT: SIDEWALK
- PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- RETAINING WALL (SEE WALL PLANS)
- FENCE / PEDESTRIAN RAIL

# CONSTRUCTION NOTES:

- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
- CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
- INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
- INSTALL CURB CUTS PER DRAINAGE PLANS SHEETS C07.10 TO C07.16
- INSTALL CHAIN LINK FENCE TYPE 4 PER WSDOT STD. PLAN L-20.10-3

# KEY PLAN

SCALE 1" = 40'



FILE NAME: WSFMukilteo14W121\_FerryTermConst\CADD\JACOBS\14w121c10-11.dwg

PRINTED: 8:37:50 AM 8/22/2018

SUBMITTAL DATE: 08/23/18

DESIGNED BY: M. PANICK

ENTERED BY: C. CONRAD

CHECKED BY: J. SCHENKMAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

CONRADCS

8/22/2018

8/22/2018

8/22/2018

REVISION

DATE

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

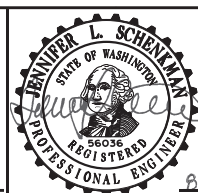
JOB NUMBER

18W121

CONTRACT NO.

00\*\*\*\*\*

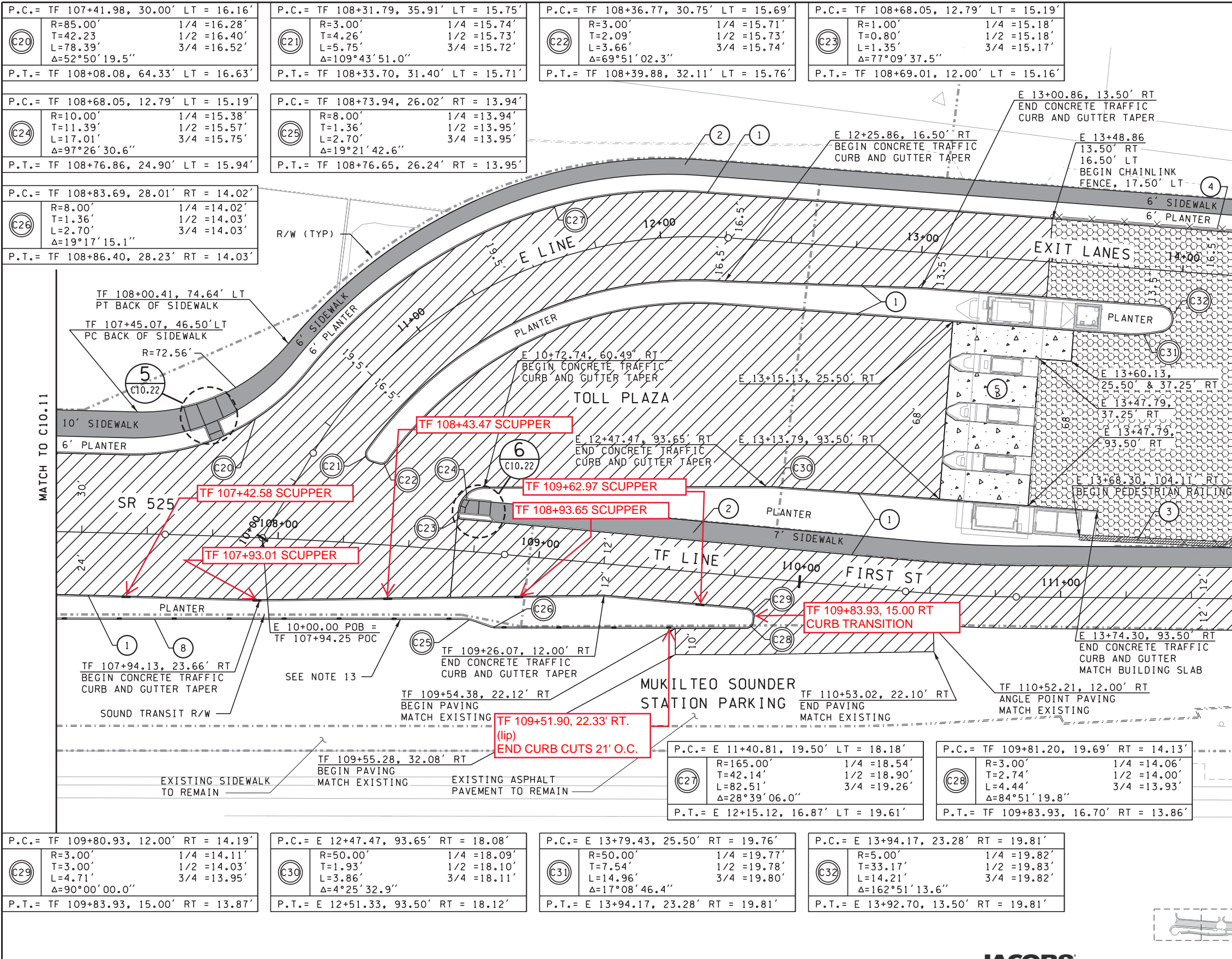
RFI 329  
Page 4 of 6  
11/4/19



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PAVING PLAN

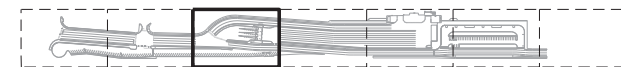
C10.11B  
SHEET  
253  
OF  
1521  
SHEETS





- NOTES:**
- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  - SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
  - UTILITIES NOT SHOWN FOR CLARITY.
  - ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
  - SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
  - SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
  - FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
  - SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
  - SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
  - SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
  - SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
  - COORDINATE TIE IN WITH EXISTING SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
  - RESTORE PAVING ALONG SOUND TRANSIT PROPERT AS NECESSARY.

- LEGEND:**
- IMPERVIOUS PAVEMENT
  - TEMPORARY PAVEMENT: SIDEWALK
  - PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
  - CONCRETE SIDEWALK
  - CONCRETE PAVEMENT
  - RETAINING WALL (SEE WALL PLANS)
  - FENCE / PEDESTRIAN RAIL
- CONSTRUCTION NOTES:**
- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
  - CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
  - INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
  - INSTALL BLACK VINYL COATED TYPE 3 CHAINLINK FENCE PER WSDOT STD. PLAN L-20.10-03.
  - CONSTRUCT PCCP PAVEMENT SECTION PER WSF TERMINAL DESIGN MANUAL 340.08(2)(d)
  - INSTALL CURB CUTS PER DRAINAGE PLANS SHEETS C07.10 TO C07.16



SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14W121c10-12.dwg

PRINTED: 7:07:25 AM 9/24/2018

SUBMITTAL DATE: 09/21/18

DESIGNED BY: P. CROWLEY

ENTERED BY: N. LAUGHLIN

CHECKED BY: M. PANICK

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: DonielJL

9/24/2018

9/24/2018

9/24/2018

REVISION

DATE

BY

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

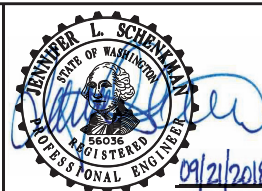
JOB NUMBER

18W121

CONTRACT NO.

00\*\*\*\*

RFI 329  
Page 5 of 6  
11/4/19



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVING PLAN

C10.12

SHEET

254

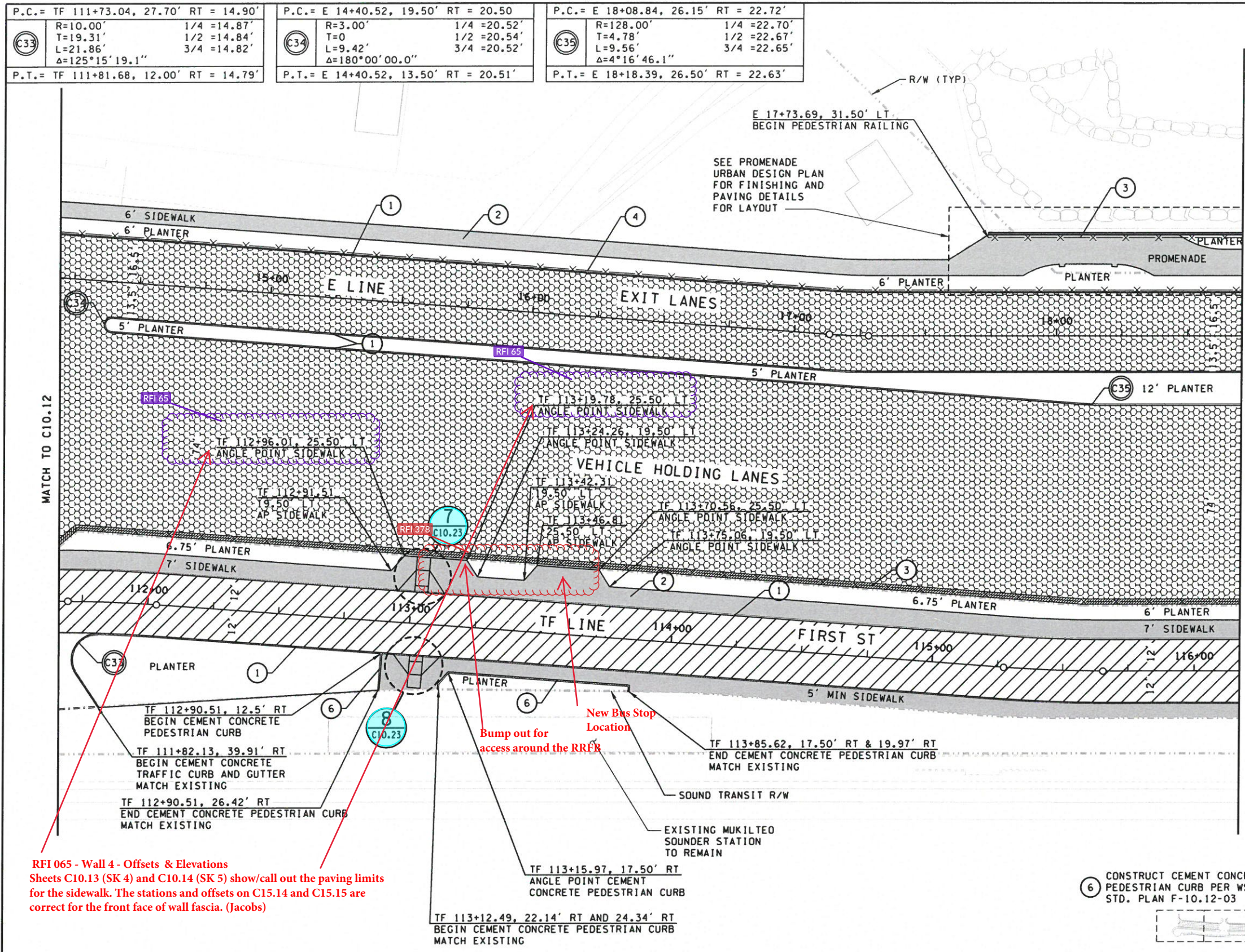
OF

1521

SHEETS



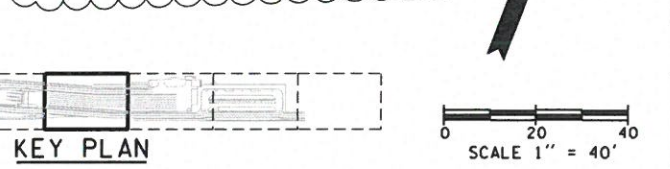
Contract 9321  
Date 12/13/2019  
Change Order #42 R1  
Sheet 6 of 7



- NOTES:**
- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  - SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
  - UTILITIES NOT SHOWN FOR CLARITY.
  - ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
  - SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
  - SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
  - FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
  - SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
  - SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
  - SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
  - SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
  - COORDINATE TIE IN WITH EXISTING SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
  - RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

- LEGEND:**
- IMPERVIOUS PAVEMENT
  - TEMPORARY PAVEMENT: SIDEWALK
  - PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
  - CONCRETE SIDEWALK
  - CONCRETE PAVEMENT
  - RETAINING WALL (SEE WALL PLANS)
  - FENCE / PEDESTRIAN RAIL

- CONSTRUCTION NOTES:**
- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
  - CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
  - INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
  - INSTALL TERMINAL FENCE PER SPECIAL PROVISION TERMINAL FENCE.



FILE NAME: WSF\Mukilteo\14W121.FerryTermConst\CADD\JACOBS\14w121c10.13.dwg			
PRINTED: 7:50:35 AM 1/10/2019	LAST PRINTED BY: DonielJL		
SUBMITTAL DATE: 01/09/2019			
DESIGNED BY: M. PANICK	1/10/2019		
ENTERED BY: C. CONRAD	1/10/2019		
CHECKED BY: J. SCHENKMAN	1/10/2019		
MAR PROJ ENGR: C. TORRES			
DIR TERM ENGR: N. MCINTOSH			
ASST SECRETARY: A. SCARTON			
CHANGE ORDER	01/09/19	JLS	
REVISION	DATE	BY	

FED.AID PROJ.NO. WA-2017-007-00  
REGION NO. STATE 10 WASH  
JOB NUMBER 18W121  
CONTRACT NO. 00\*\*\*\*

WASHINGTON STATE DEPARTMENT OF TRANSPORTATION  
WASHINGTON STATE FERRIES

**JACOBS**

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVING PLAN

C10.13  
SHEET 255 OF 1521 SHEETS



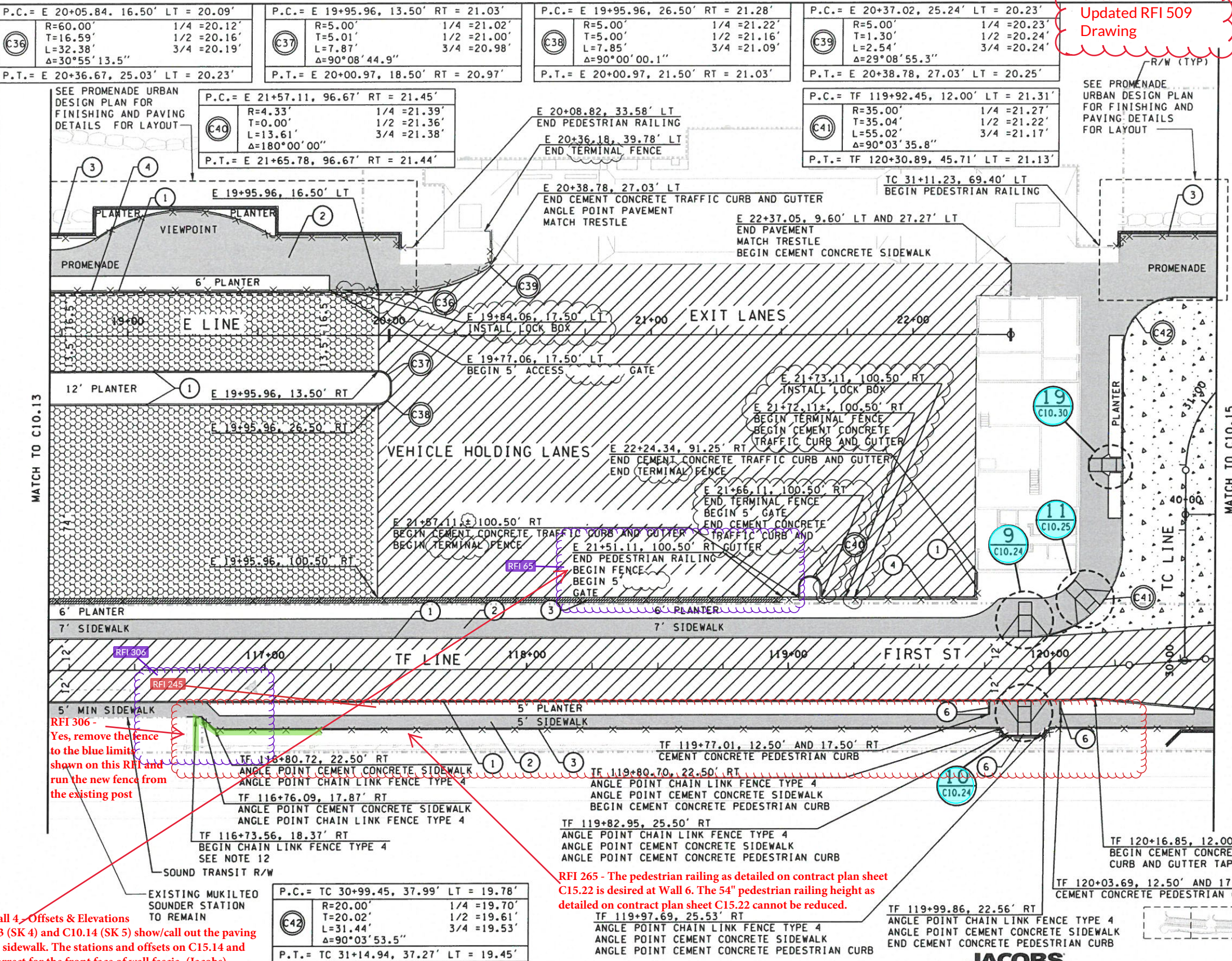
Contract 9321  
Date 12/13/2019  
Change Order #42 R1  
Sheet 7 of 7

See Plan Page  
C10.14 B for  
Updated RFI 509  
Drawing

- NOTES:**
- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  - SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
  - UTILITIES NOT SHOWN FOR CLARITY.
  - ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
  - SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
  - SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
  - FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
  - SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
  - SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
  - SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
  - SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
  - COORDINATE TIE IN WITH SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
  - RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

- LEGEND:**
- IMPERVIOUS PAVEMENT
  - TEMPORARY PAVEMENT: SIDEWALK
  - PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
  - CONCRETE SIDEWALK
  - CONCRETE PAVEMENT
  - RETAINING WALL (SEE WALL PLANS)
  - FENCE / PEDESTRIAN RAIL

- CONSTRUCTION NOTES:**
- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
  - CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
  - INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
  - INSTALL TERMINAL FENCE PER SPECIAL PROVISION TERMINAL FENCE.
  - CONSTRUCT CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-03

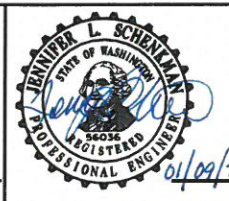


RFI 065 - Wall 4 - Offsets & Elevations  
Sheets C10.13 (SK 4) and C10.14 (SK 5) show/call out the paving limits for the sidewalk. The stations and offsets on C15.14 and C15.15 are correct for the front face of wall fascia. (Jacobs)

RFI 306 -  
Yes, remove the fence to the blue limits shown on this RFI and run the new fence from the existing post

RFI 265 - The pedestrian railing as detailed on contract plan sheet C15.22 is desired at Wall 6. The 54" pedestrian railing height as detailed on contract plan sheet C15.22 cannot be reduced.

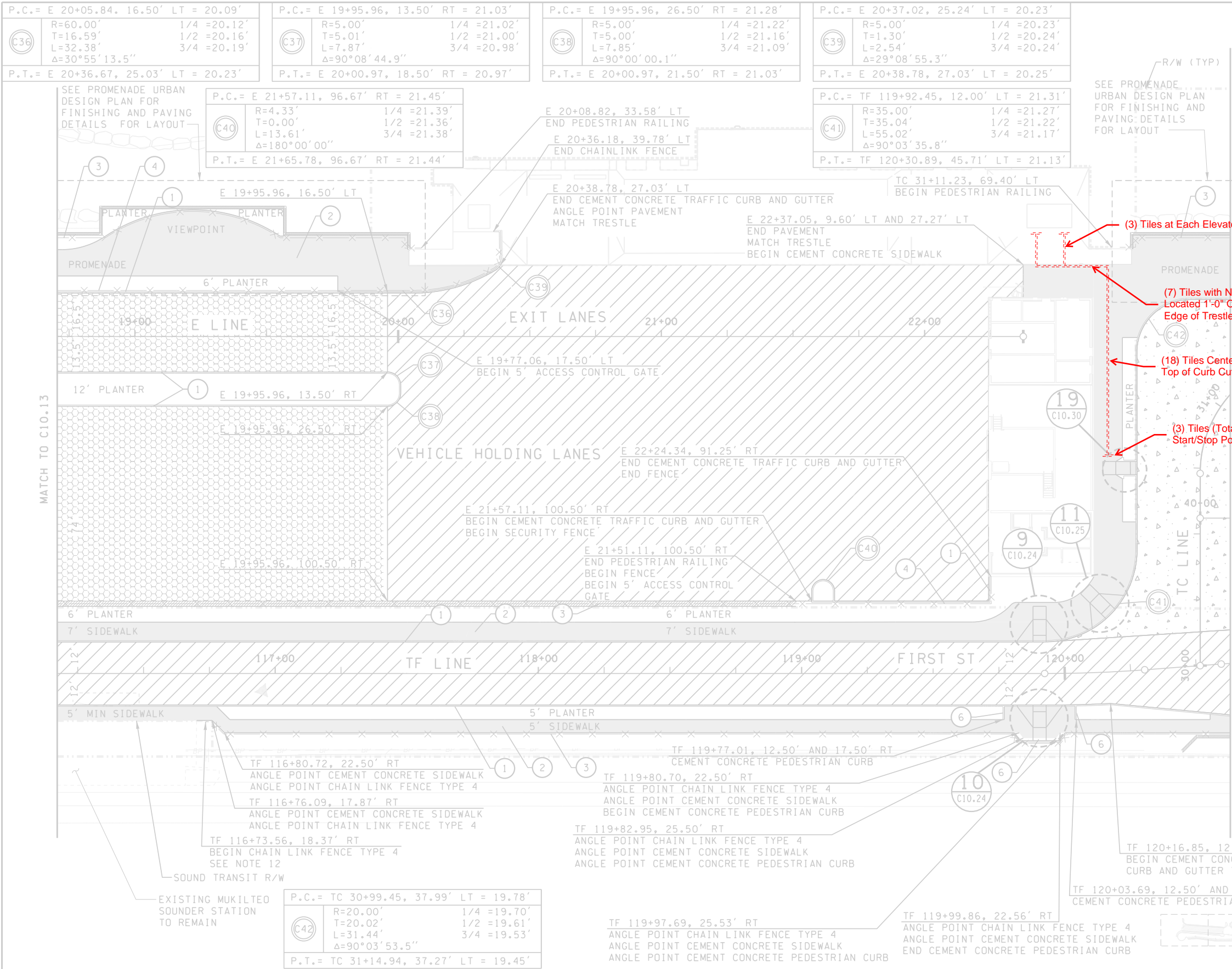
FILE NAME: WSF\Mukilteo\14W121.FerryTermConst\CADD\JACOBS\14w121c10.14.dwg			
PRINTED: 8:00:32 AM 1/10/2019	LAST PRINTED BY: Doniel	FED. AID PROJ. NO.	
SUBMITTAL DATE: 01/09/2019		WA-2017-007-00	
DESIGNED BY: P. CROWLEY	1/10/2019	REGION NO. STATE	10 WASH
ENTERED BY: N. LAUGHLIN	1/10/2019	JOB NUMBER	18W121
CHECKED BY: M. PANICK	1/10/2019	CONTRACT NO.	00****
MAR PROJ ENGR: C. TORRES		CHANGE ORDER	01/09/19 JLS
DIR TERM ENGR: N. MCINTOSH		REVISION	DATE BY
ASST SECRETARY: A. SCARTON			



**JACOBS**  
Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	C10.14A
PAVING PLAN	SHEET 256 OF 1521 SHEETS





- NOTES:**
- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  - SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
  - UTILITIES NOT SHOWN FOR CLARITY.
  - ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
  - SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
  - SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
  - FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
  - SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
  - SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
  - SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
  - SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
  - COORDINATE TIE IN WITH SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
  - RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

- LEGEND:**
- IMPERVIOUS PAVEMENT
  - TEMPORARY PAVEMENT: SIDEWALK
  - PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
  - CONCRETE SIDEWALK
  - CONCRETE PAVEMENT
  - RETAINING WALL (SEE WALL PLANS)
  - FENCE / PEDESTRIAN RAIL

- CONSTRUCTION NOTES:**
- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
  - CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
  - INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
  - INSTALL BLACK VINYL COATED TYPE 3 CHAINLINK FENCE PER WSDOT STD. PLAN L-20.10-03.
  - CONSTRUCT CEMENT CONCRETE PEDESTRIAN CURB PER WSDOT STD. PLAN F-10.12-03



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$					
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.	
SUBMITTAL DATE: 1/18/19		#USERNAME#		WA-2017-007-00	
DESIGNED BY: P. CROWLEY	1/18/19			REGION NO. STATE	
ENTERED BY: N. LAUGHLIN	1/18/19			10 WASH	
CHECKED BY: M. PANICK	1/18/19			JOB NUMBER	
MAR PROJ ENGR: C. TORRES		WAYFINDING REVISIONS		18W121	
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS		CONTRACT NO.	
ASST SECRETARY: A. SCARTON		REVISION		009321	
			DATE	BY	
			5/18/20		

This drawing was marked up by D. Alire (KPFF) to show the ADA Directional Wayfinding ONLY. No other revisions were made to this drawing. The contractor shall use the Conformed C10.14 for all construction except the directional wayfinding added in red on this sheet. (KPFF, 5/19/2020)

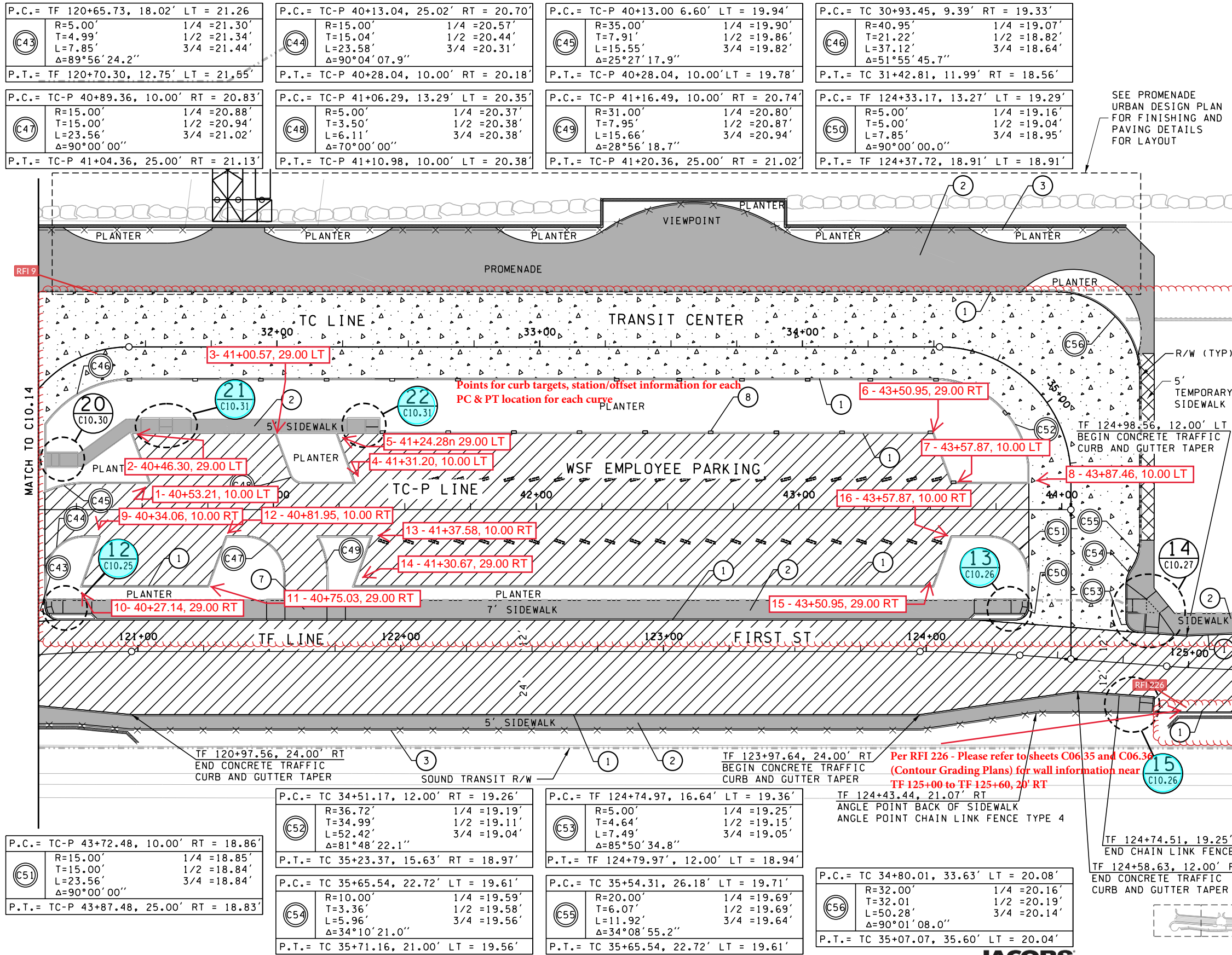


SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVING PLAN

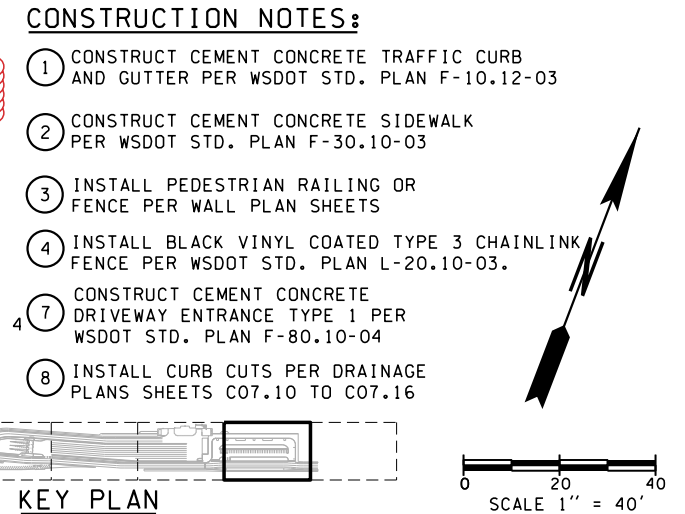
C10.14B  
SHEET  
256  
OF  
1521  
SHEETS





- NOTES:**
- SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  - SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
  - UTILITIES NOT SHOWN FOR CLARITY.
  - ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
  - SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
  - SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
  - FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
  - SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
  - SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
  - SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
  - SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
  - COORDINATE TIE IN WITH EXISTING SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
  - RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

- LEGEND:**
- IMPERVIOUS PAVEMENT
  - TEMPORARY PAVEMENT: SIDEWALK
  - PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
  - CONCRETE SIDEWALK
  - CONCRETE PAVEMENT
  - RETAINING WALL (SEE WALL PLANS)
  - FENCE / PEDESTRIAN RAIL
- CONSTRUCTION NOTES:**
- CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
  - CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03
  - INSTALL PEDESTRIAN RAILING OR FENCE PER WALL PLAN SHEETS
  - INSTALL BLACK VINYL COATED TYPE 3 CHAINLINK FENCE PER WSDOT STD. PLAN L-20.10-03.
  - CONSTRUCT CEMENT CONCRETE DRIVEWAY ENTRANCE TYPE 1 PER WSDOT STD. PLAN F-80.10-04
  - INSTALL CURB CUTS PER DRAINAGE PLANS SHEETS C07.10 TO C07.16



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\FILES\$			
PRINTED: \$TIME\$	\$DATE\$	LAST PRINTED BY:	
SUBMITTAL DATE: 1/18/19		DESIGNED BY: P. CROWLEY	1/18/19
ENTERED BY: N. LAUGHLIN	1/18/19	CHECKED BY: M. PANICK	1/18/19
MAR PROJ ENGR: C. TORRES		DIR TERM ENGR: N. MCINTOSH	
ASST SECRETARY: A. SCARTON		CONFORMED PLANS	1/18/19
		REVISION	DATE BY

FED.AID PROJ.NO.	WA-2017-007-00
REGION NO. STATE	10 WASH
JOB NUMBER	18W121
CONTRACT NO.	009321



SR 525	C10.15
MUKILTEO FERRY TERMINAL (PHASE 2)	SHEET
FERRY TERMINAL CONSTRUCTION	257
	OF
PAVING PLAN	1521
	SHEETS



- NOTES:**
- 1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  - 2. SEE SITE PREPARATION PLANS FOR PAVEMENT SAWCUT, SHEETS C04.10 TO C04.16.
  - 3. UTILITIES NOT SHOWN FOR CLARITY.
  - 4. ALL DRAINAGE & UTILITY STRUCTURES WITHIN THE PROJECT LIMITS SHALL BE ADJUSTED TO GRADE UNLESS OTHERWISE NOTED ON UTILITY PLANS.
  - 5. SEE TYPICAL ROADWAY SECTIONS FOR ADDITIONAL PAVEMENT DEPTHS AND WIDTHS, SHEETS C06.40 TO C06.44.
  - 6. SEE WALL PLANS FOR ADDITIONAL INFORMATION, C15.10 TO C15.33.
  - 7. FLOW TEST FINISHED GRADE AT FLOWLINE TO ENSURE THAT NO PONDING OCCURS. TESTING SHALL INCLUDE APPLICATION OF WATER AT THE HIGH POINT OF THE FLOWLINE TO ENSURE WATER FLOWS FREELY.
  - 8. SEE ADA RAMP DETAIL SHEETS FOR ADDITIONAL INFORMATION, C10.20 TO C10.31.
  - 9. SEE BUILDING PLANS FOR FOUNDATIONS AND OTHER ITEMS RELATED TO THE BUILDINGS, SHEETS SX00.10 TO SX01.15.
  - 10. SEE DRAINAGE PLANS FOR CURB CUT LOCATIONS, SHEETS C07.10 TO C07.16.
  - 11. SEE SR525 MUKILTEO MULTIMODAL TERMINAL - PHASE 2 PAVEMENT DESIGN REPORT FOR ADDITIONAL INFORMATION ON PAVEMENT SECTIONS.
  - 12. COORDINATE TIE IN WITH EXISTING SOUND TRANSIT ARBOR AS DIRECTED BY ENGINEER.
  - 13. RESTORE PAVING ALONG SOUND TRANSIT PROPERTY AS NECESSARY.

**LEGEND:**

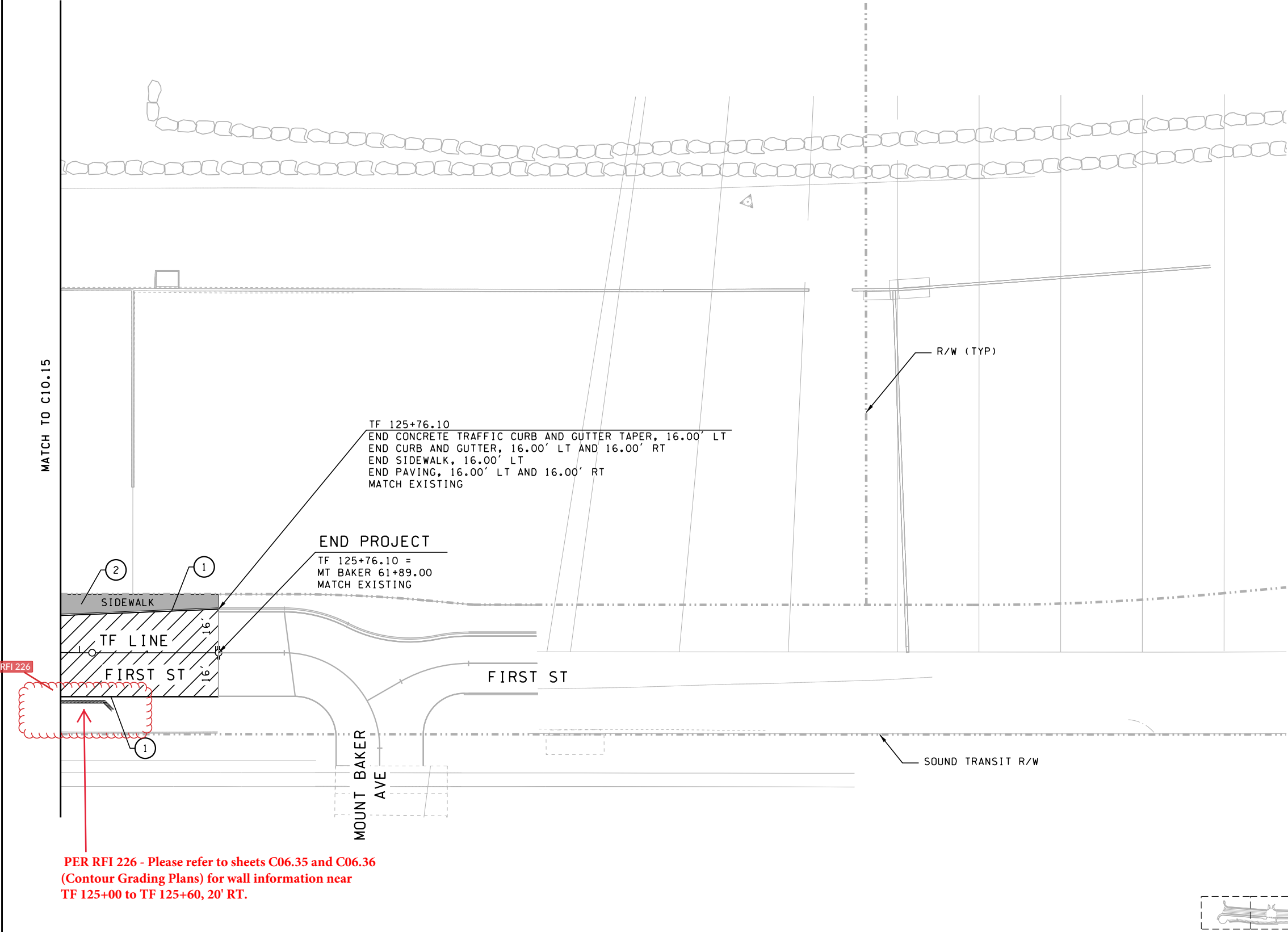
- IMPERVIOUS PAVEMENT
- TEMPORARY PAVEMENT: SIDEWALK
- PERVIOUS CONCRETE PAVEMENT: WSF TERMINAL
- CONCRETE SIDEWALK
- CONCRETE PAVEMENT
- RETAINING WALL (SEE WALL PLANS)
- FENCE / PEDESTRIAN RAIL

**CONSTRUCTION NOTES:**

- 1. CONSTRUCT CEMENT CONCRETE TRAFFIC CURB AND GUTTER PER WSDOT STD. PLAN F-10.12-03
- 2. CONSTRUCT CEMENT CONCRETE SIDEWALK PER WSDOT STD. PLAN F-30.10-03

**KEY PLAN**

SCALE 1" = 40'



PER RFI 226 - Please refer to sheets C06.35 and C06.36 (Contour Grading Plans) for wall information near TF 125+00 to TF 125+60, 20' RT.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\JCAD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: P. CROWLEY	1/18/19					REGION NO. STATE			
ENTERED BY: N. LAUGHLIN	1/18/19					10 WASH			
CHECKED BY: M. PANICK	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		009321			

**JACOBS**

MONICA CATHERINE PANICK  
REGISTERED PROFESSIONAL ENGINEER  
01/18/19

**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVING PLAN

C10.16

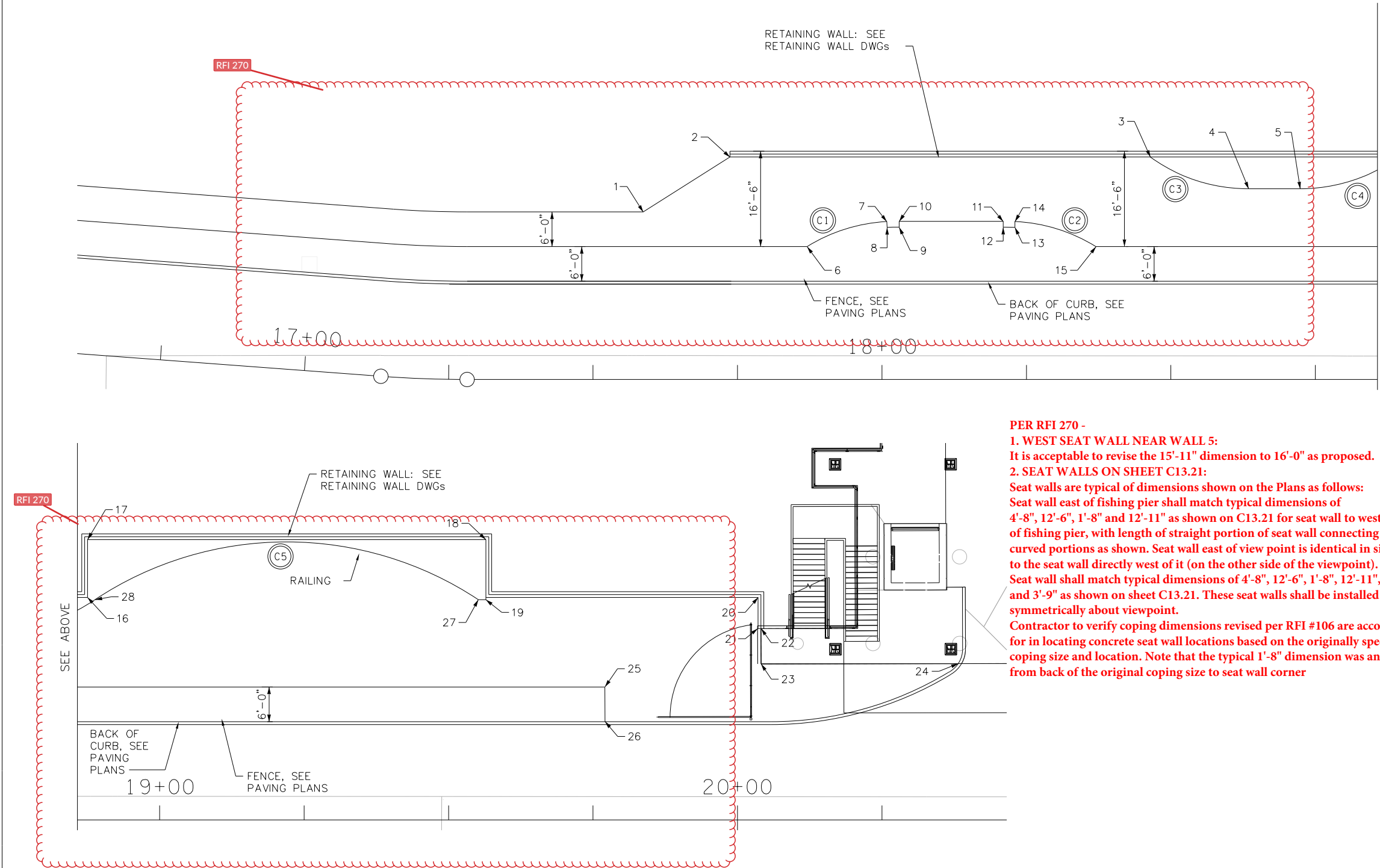
SHEET 258 OF 1521 SHEETS



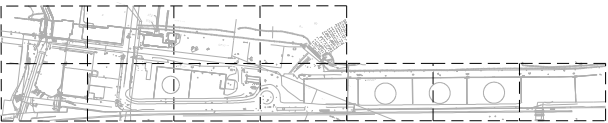
P.C.= E 17+86.65, 23.00' LT = 22.92'	P.C.= E 18+22.62, 27.35' LT = 22.69'	P.C.= E 18+46.05, 38.50' LT = 22.70'	P.C.= E 18+71.98, 33.00' LT = 22.36'	P.C.= E 18+88.41, 38.10' LT = 22.31'
<div>C1</div> <div>R=29.00' T=7.46' L=14.61' Δ=28°51'12.1"</div>	<div>C2</div> <div>R=28.89' T=7.58' L=14.83' Δ=29°24'49.8"</div>	<div>C3</div> <div>R=29.00' T=9.39' L=18.17' Δ=35°53'43.5"</div>	<div>C4</div> <div>R=29.00' T=9.01' L=17.47' Δ=34°30'29.5"</div>	<div>C5</div> <div>R=60.00' T=39.80' L=70.28' Δ=67°7'42.4"</div>
P.T.= E 18+00.44, 27.33' LT = 22.89'	P.T.= E 18+36.63, 23.00' LT = 22.48'	P.T.= E 18+63.06, 33.00' LT = 22.44'	P.T.= E 18+88.41, 38.10' LT = 22.31'	P.T.= E 19+54.74, 38.10' LT = 21.72'

- NOTES:
- FOR PLANTING PLANS, DWGs C09.40–C09.62.
  - FOR URBAN DESIGN DIMENSIONING PLANS, SEE SHEETS C13.20–C13.22.
  - FOR URBAN DESIGN PLAN, SEE SHEETS C13.10–C13.12.
  - FOR BOLLARD LIGHT LOCATIONS AND DETAILS, SEE SITE ILLUMINATION SHEETS.

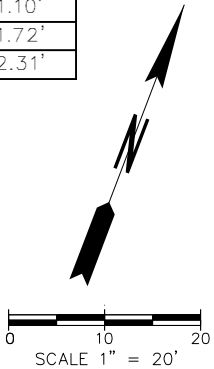
POINT TABLE — "E LINE"			
POINT	STATION	OFFSET	ELEVATION
1	1758.29	29.00' LT	23.29'
2	1773.29	38.50' LT	23.35'
3	1846.05	38.50' LT	22.70'
4	1863.06	33.00' LT	22.44'
5	1871.98	33.00' LT	22.36'
6	1786.65	23.00' LT	22.92'
7	1800.44	27.33' LT	22.89'
8	1800.49	26.34' LT	22.87'
9	1802.58	26.37' LT	22.85'
10	1802.58	27.38' LT	22.87'
11	1820.58	27.38' LT	22.71'
12	1820.58	26.38' LT	22.69'
13	1822.62	26.35' LT	22.67'
14	1822.62	27.35' LT	22.69'
15	1836.63	23.00' LT	22.48'
16	1887.11	38.50' LT	22.33'
17	1887.11	48.50' LT	22.50'
18	1956.05	48.50' LT	21.76'
19	1956.05	38.10' LT	21.71'
20	2003.16	38.50' LT	20.92'
21	2003.17	33.11' LT	20.84'
22	2003.67	33.11' LT	20.84'
23	2003.68	26.99' LT	20.75'
24	2037.79	27.03' LT	20.75'
25	1976.66	23.00' LT	21.22'
26	1956.66	17.00' LT	21.10'
27	1954.74	38.10' LT	21.72'
28	1888.41	38.10' LT	22.31'



**PER RFI 270 -**  
**1. WEST SEAT WALL NEAR WALL 5:**  
It is acceptable to revise the 15'-11" dimension to 16'-0" as proposed.  
**2. SEAT WALLS ON SHEET C13.21:**  
Seat walls are typical of dimensions shown on the Plans as follows:  
Seat wall east of fishing pier shall match typical dimensions of 4'-8", 12'-6", 1'-8" and 12'-11" as shown on C13.21 for seat wall to west of fishing pier, with length of straight portion of seat wall connecting curved portions as shown. Seat wall east of view point is identical in size to the seat wall directly west of it (on the other side of the viewpoint). Seat wall shall match typical dimensions of 4'-8", 12'-6", 1'-8", 12'-11", and 3'-9" as shown on sheet C13.21. These seat walls shall be installed symmetrically about viewpoint.  
Contractor to verify coping dimensions revised per RFI #106 are accommodated for in locating concrete seat wall locations based on the originally specified coping size and location. Note that the typical 1'-8" dimension was an offset from back of the original coping size to seat wall corner



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\JACOBS\ \$FILES\$			
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:	
SUBMITTAL DATE:		#USERNAME#	
DESIGNED BY: J. SCHENKMAN	1/18/19		FED.AID PROJ.NO.
ENTERED BY: J. DANIELSON	1/18/19		WA-2017-007-00
CHECKED BY: X.XXXX	1/18/19		REGION NO. STATE
MAR PROJ ENGR: C. TORRES			10 WASH
DIR TERM ENGR: N. MCINTOSH			JOB NUMBER
ASST SECRETARY: A. SCARTON			18W121
	CONFORMED PLANS	1/18/19	CONTRACT NO.
	REVISION	DATE	009321



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVING DETAILS

C10.17

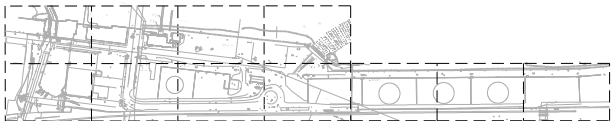
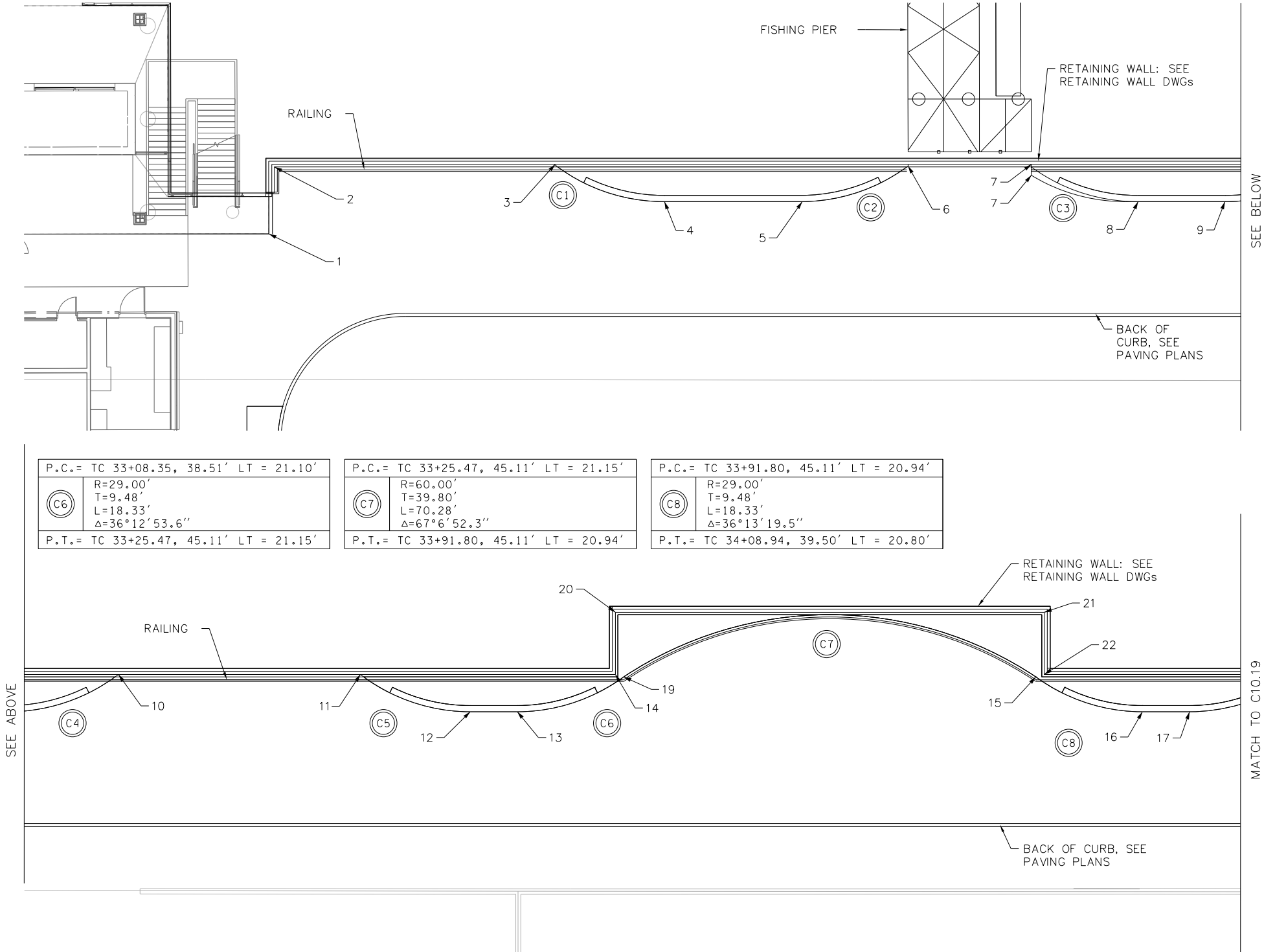
SHEET  
258A  
OF  
1521  
SHEETS



P.C.= TC 31+31.51, 48.93' LT = 20.08'	P.C.= TC 31+58.19, 39.51' LT = 20.05'	P.C.= TC 32+10.46, 39.51' LT = 20.40'	P.C.= TC 32+26.50, 39.51' LT = 20.73'	P.C.= TC 32+83.11, 45.51' LT = 21.22'
<div>C1</div> <div>R=29.00' T=9.85' L=18.99' Δ=37°30'58.4"</div>	<div>C2</div> <div>R=29.00' T=9.85' L=18.99' Δ=37°31'42.3"</div>	<div>C3</div> <div>R=29.01' T=8.16' L=15.90' Δ=31°24'34.9"</div>	<div>C4</div> <div>R=29.00' T=9.85' L=19.00' Δ=37°32'30.5"</div>	<div>C5</div> <div>R=29.00' T=9.85' L=19.02' Δ=37°34'5.4"</div>
P.T.= TC 31+39.74, 39.84' LT = 19.96'	P.T.= TC 31+75.51, 45.25' LT = 20.41'	P.T.= TC 31+95.35, 43.76' LT = 20.57'	P.T.= TC 32+44.17, 45.51' LT = 20.99'	P.T.= TC 33+00.79, 39.51' LT = 21.12'

- NOTES:
- FOR PLANTING PLANS, DWGs C09.40–C09.62.
  - FOR URBAN DESIGN DIMENSIONING PLANS, SEE SHEETS C13.20–C13.22.
  - FOR URBAN DESIGN PLAN, SEE SHEETS C13.10–C13.12.
  - FOR BOLLARD LIGHT LOCATIONS AND DETAILS, SEE SITE ILLUMINATION SHEETS.

POINT TABLE - "TC LINE"			
POINT	STATION	OFFSET	ELEVATION
1	3110.8	61.49' LT	20.25'
2	3113.9	69.76' LT	20.25'
3	3131.5	48.93' LT	20.08'
4	3139.7	39.84' LT	19.96'
5	3158.2	39.51' LT	20.05'
6	3175.5	45.25' LT	20.41'
7	3195.4	45.51' LT	20.42'
8	3195.4	43.76' LT	20.57'
9	3226.5	39.51' LT	20.73'
10	3244.2	45.51' LT	20.99'
11	3283.1	45.51' LT	21.22'
12	3300.8	39.51' LT	21.12'
13	3308.4	38.51' LT	21.10'
14	3325.5	45.11' LT	21.15'
15	3391.8	45.11' LT	20.94'
16	3408.9	39.50' LT	20.80'
17	3416.5	39.50' LT	20.80'
18	3210.5	39.51' LT	20.40'
19	3324.1	45.51' LT	21.14'
20	3324.1	55.51' LT	21.29'
21	3393.1	55.50' LT	21.10'
22	3393.1	45.50' LT	20.94'



KEY PLAN

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\JACOBS\ \$FILES\$					
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.	
SUBMITTAL DATE: 1/18/19		#USERNAME#		WA-2017-007-00	
DESIGNED BY: J. SCHENKMAN	1/18/19			REGION NO. STATE	
ENTERED BY: J. DANIELSON	1/18/19			10 WASH	
CHECKED BY: X.XXXX	1/18/19			JOB NUMBER	
MAR PROJ ENGR: C. TORRES				18W121	
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.	
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321	



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVING DETAILS

C10.18

SHEET  
258B  
OF  
1521  
SHEETS

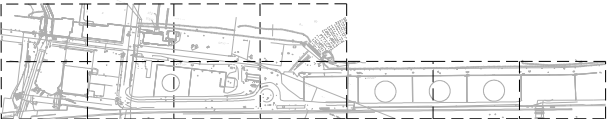
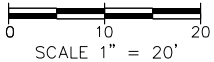
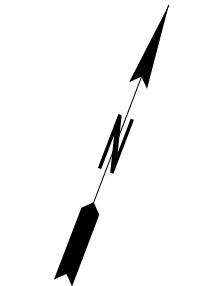
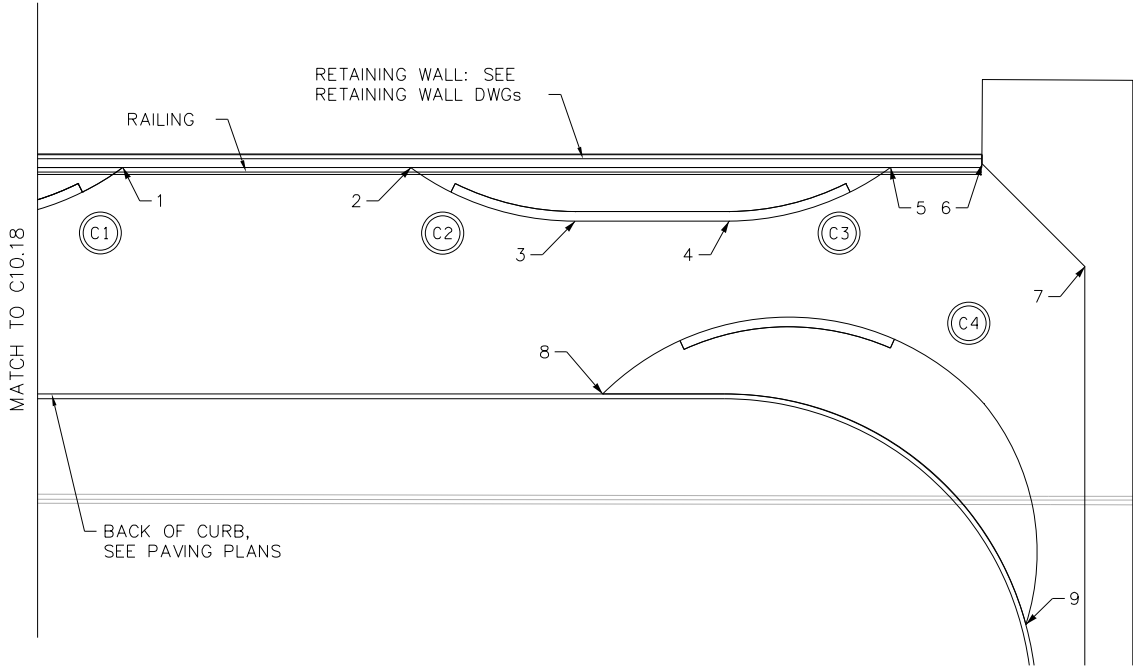


P.C.= TC 34+16.50, 39.50' LT = 20.80'	P.C.= TC 34+57.87, 46.14' LT = 20.76'	P.C.= TC 34+75.30, 50.01' RT = 20.81'	P.C.= TC 34+72.90, 28.11' LT = 20.47'
<div>C1</div> <div>R=29.00' T=9.85' L=18.99' Δ=37°34'11.3"</div>	<div>C2</div> <div>R=29.00' T=9.85' L=18.99' Δ=37°31'51.7"</div>	<div>C3</div> <div>R=29.00' T=9.85' L=18.99' Δ=37°31'32.3"</div>	<div>C4</div> <div>R=25.76' T=112.36' L=69.30' Δ=154°7'56.5"</div>
P.T.= TC 34+34.16, 45.50' LT = 20.25'	P.T.= TC 34+67.63, 43.96' LT = 20.71'	P.T.= TC 34+81.07, 64.02' LT = 21.02'	P.T.= TC 35+02.65, 39.26' LT = 20.61'

NOTES:

1. FOR PLANTING PLANS, DWGs C09.40–C09.62.
2. FOR URBAN DESIGN DIMENSIONING PLANS, SEE SHEETS C13.20–C13.22.
3. FOR URBAN DESIGN PLAN, SEE SHEETS C13.10–C13.12.
4. FOR BOLLARD LIGHT LOCATIONS AND DETAILS, SEE SITE ILLUMINATION SHEETS.

POINT TABLE – "TC LINE"			
POINT	STATION	OFFSET	ELEVATION
1	3434.16	45.50' LT	20.82'
2	3457.87	46.12' LT	20.76'
3	3467.63	43.96' LT	20.71'
4	3475.3	50.01' LT	20.81'
5	3481.07	64.02' LT	21.02'
6	3484.13	69.00' LT	21.10'
7	3490.52	67.76' LT	21.08'
8	3472.9	28.11' LT	20.47'
9	3502.65	39.26' LT	20.61'



KEY PLAN

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$					
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE: 08/23/18		#USERNAME#			WA-2017-007-00
DESIGNED BY: J. SCHENKMAN	\$DATE\$				REGION NO. STATE
ENTERED BY: J. DANIELSON	1/18/19				10 WASH
CHECKED BY: X.XXXX	1/18/19				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19		CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	009321



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

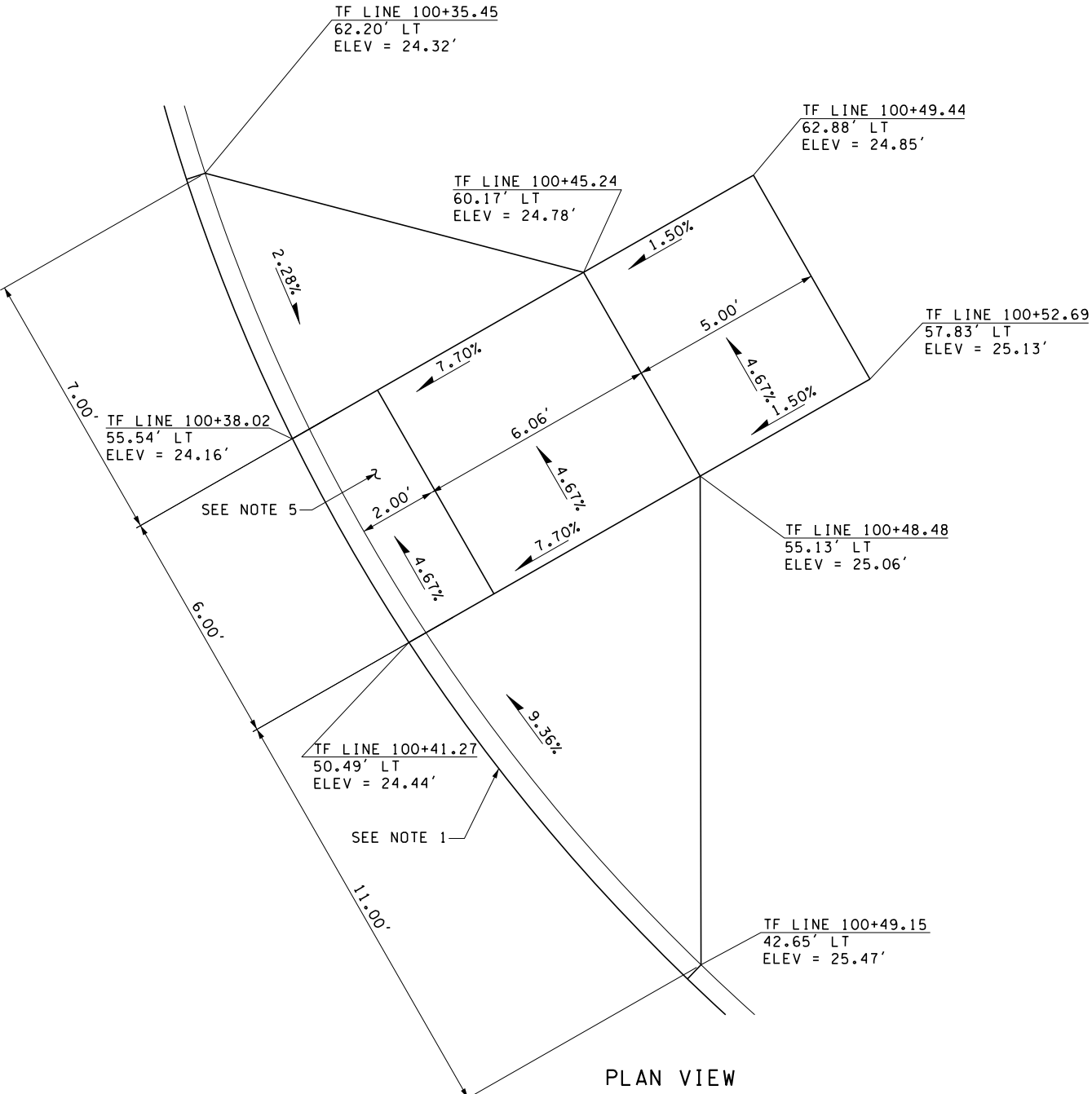
PAVING DETAILS

C10.19

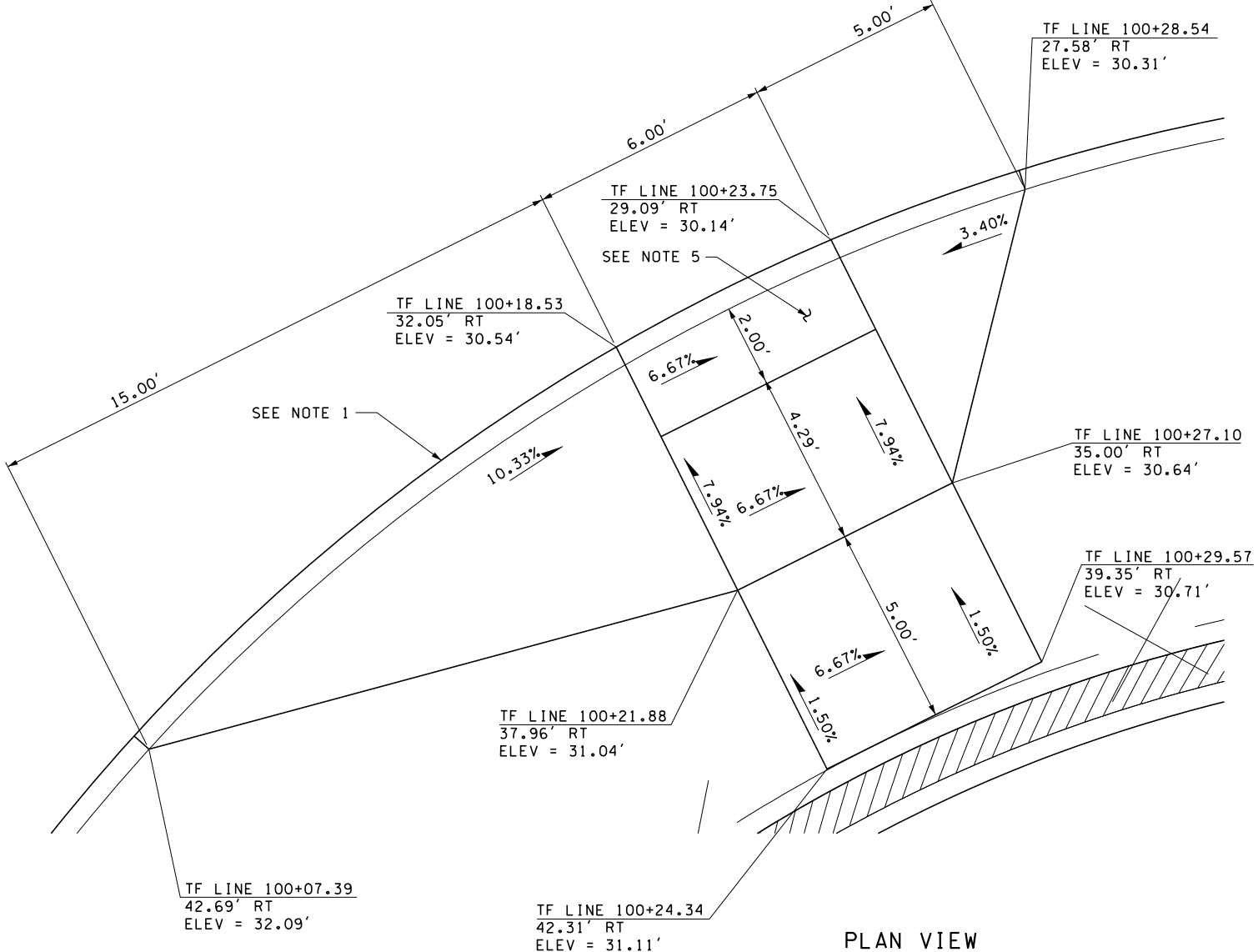
SHEET  
258C  
OF  
1521  
SHEETS



- NOTES:
- 1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
  - 2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
  - 3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
  - 4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLAN F-40.14-03.
  - 5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
  - 6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



1 NE CORNER OF SR525 AND  
SR525 EXTENSION  
CURB RAMP TYPE PERPENDICULAR A  
N.T.S.



2 SE CORNER OF SR525 AND  
SR525 EXTENSION  
CURB RAMP TYPE PERPENDICULAR A  
N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c10-20.dwg									
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:		FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19				#USERNAME#		WA-2017-007-00			
DESIGNED BY: M. PANICK		1/18/19				REGION NO. STATE		10 WASH	
ENTERED BY: D. PERRY		1/18/19				JOB NUMBER		14W121	
CHECKED BY: M. PANICK		1/18/19				CONTRACT NO.		009321	
MAR PROJ ENGR: C. TORRES									
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19			
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY	

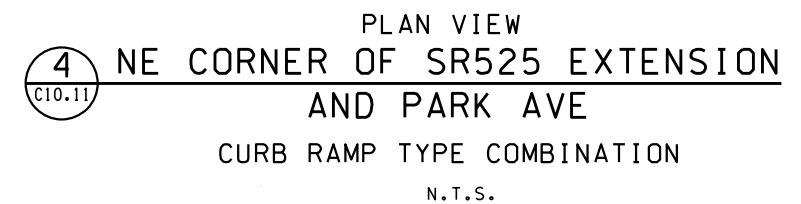
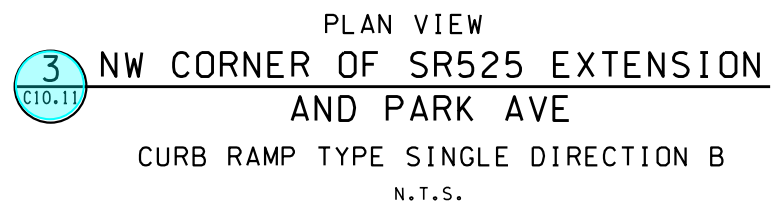




SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
ADA RAMP DETAILS

C10.20  
SHEET  
259  
OF  
1521  
SHEETS



1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLAN F-40.14-03.
5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



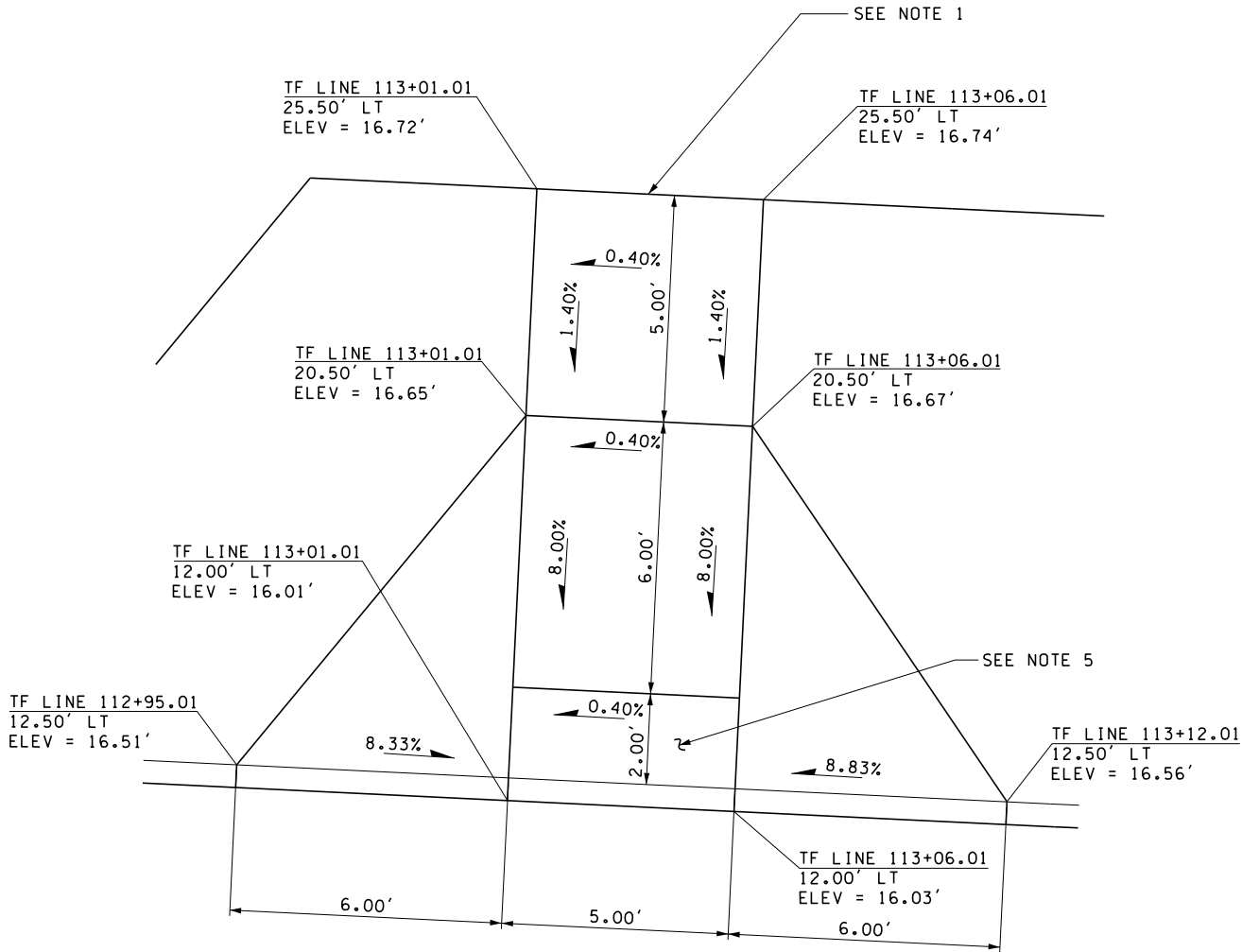
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$												 <b>Washington State Department of Transportation</b> WASHINGTON STATE FERRIES		SR 525		C10.21	
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:				FED.AID PROJ.NO.						SHEET			
SUBMITTAL DATE: 1/18/19		#USERNAME#						WA-2017-007-00				260					
DESIGNED BY: M. PANICK		1/18/19						REGION NO. STATE				OF					
ENTERED BY: D. PERRY		1/18/19						10 WASH				1521					
CHECKED BY: M. PANICK		1/18/19						JOB NUMBER 18W121				SHEETS					
MAR PROJ ENGR: C. TORRES								CONTRACT NO. 009321									
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19											
ASST SECRETARY: A. SCARTON				REVISION		DATE BY											





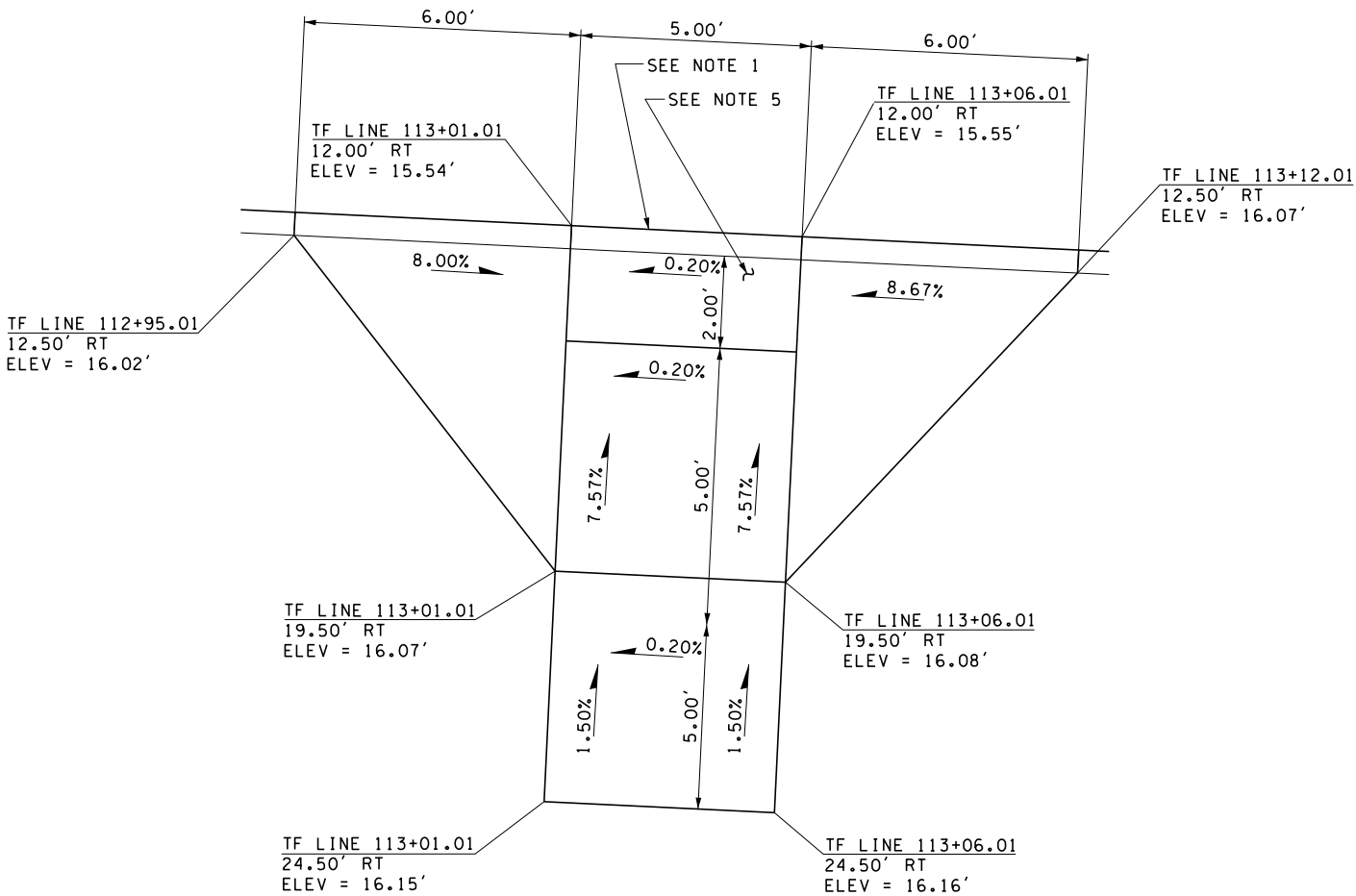


- NOTES:
1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
  2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
  3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
  4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLAN F-40.14-03.
  5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
  6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



PLAN VIEW

**7** N SIDE OF FIRST ST AT  
SOUND TRANSIT STATION  
CURB RAMP TYPE PERPENDICULAR A  
N.T.S.



PLAN VIEW

**8** S SIDE OF FIRST ST AT  
SOUND TRANSIT STATION  
CURB RAMP TYPE PERPENDICULAR A  
N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID		
SUBMITTAL DATE: 1/18/19		#USERNAME#					PROJ.NO.		
DESIGNED BY: M. PANICK	1/18/19						WA-2017-007-00		
ENTERED BY: D. PERRY	1/18/19						REGION NO. STATE		
CHECKED BY: M. PANICK	1/18/19						10 WASH		
MAR PROJ ENGR: C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH							18W121		
ASST SECRETARY: A. SCARTON							CONTRACT NO.		
							009321		
		CONFORMED PLANS	1/18/19						
		REVISION	DATE	BY					



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
ADA RAMP DETAILS

C10.23  
SHEET  
262  
OF  
1521  
SHEETS



1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLAN F-40.14-03.
5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



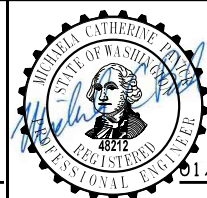
9  
C10.14



10  
C10.14

PRINTED: \$\$\$TIME\$\$\$	\$\$\$DATE\$\$\$	LAST PRINTED BY:			
SUBMITTAL DATE:	1/18/19	USERNAME:			
DESIGNED BY:	M. PANICK	1/18/19			
ENTERED BY:	D. PERRY	1/18/19			
CHECKED BY:	M. PANICK	1/18/19			
MAR PROJ ENGR:	C. TORRES				
DIR TERM ENGR:	N. MCINTOSH		CONFORMED PLANS	1/18/19	
ASST SECRETARY:	A. SCARTON		REVISION	DATE	BY

FED.AID PROJ.NO.	
WA-2017-007-00	
REGION NO.	STATE
10	WASH
JOB NUMBER 18W121	
CONTRACT NO. 009321	



01/18/19



**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

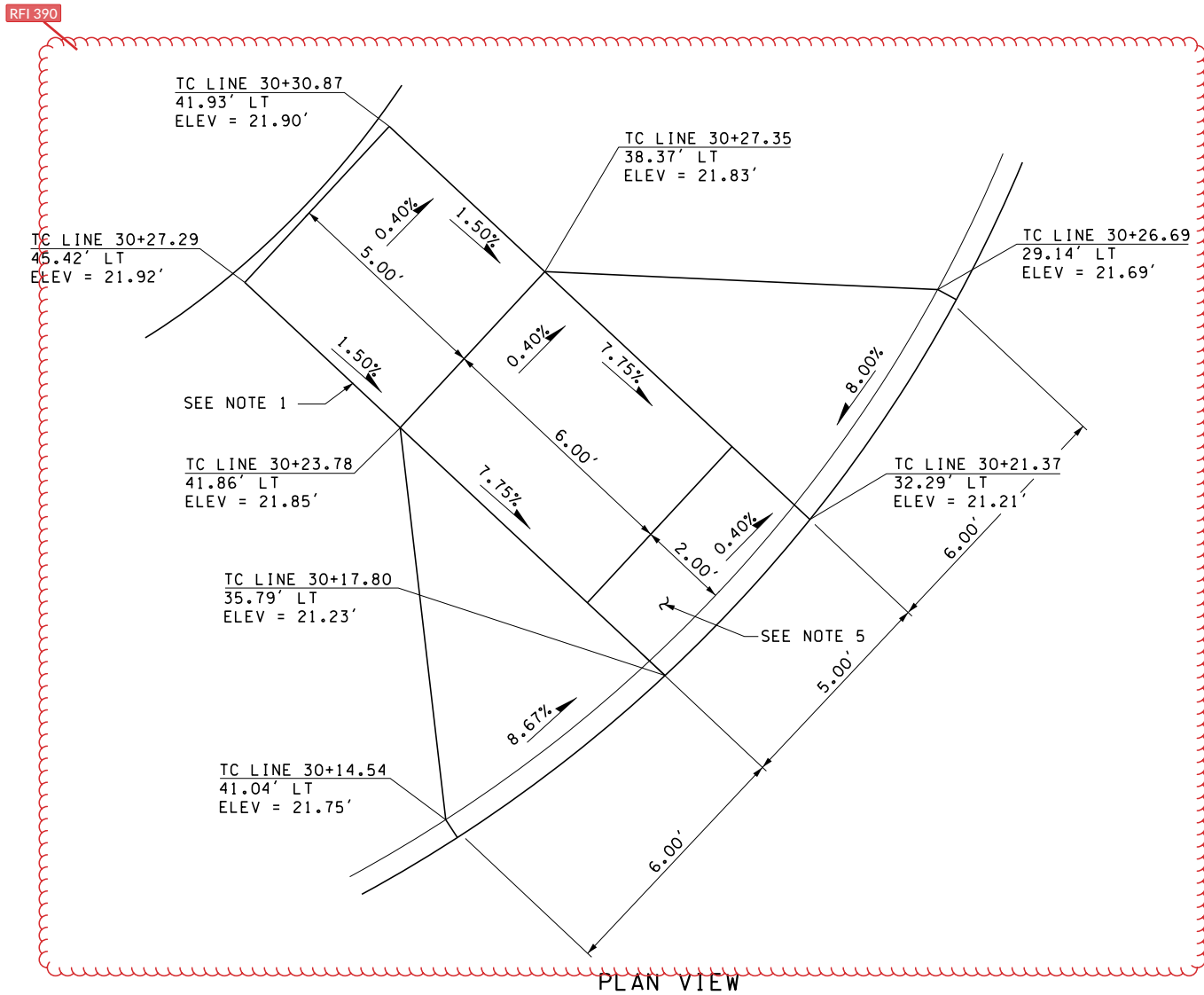
## ADA RAMP DETAILS

SHEET  
263  
OF  
1521  
SHEETS

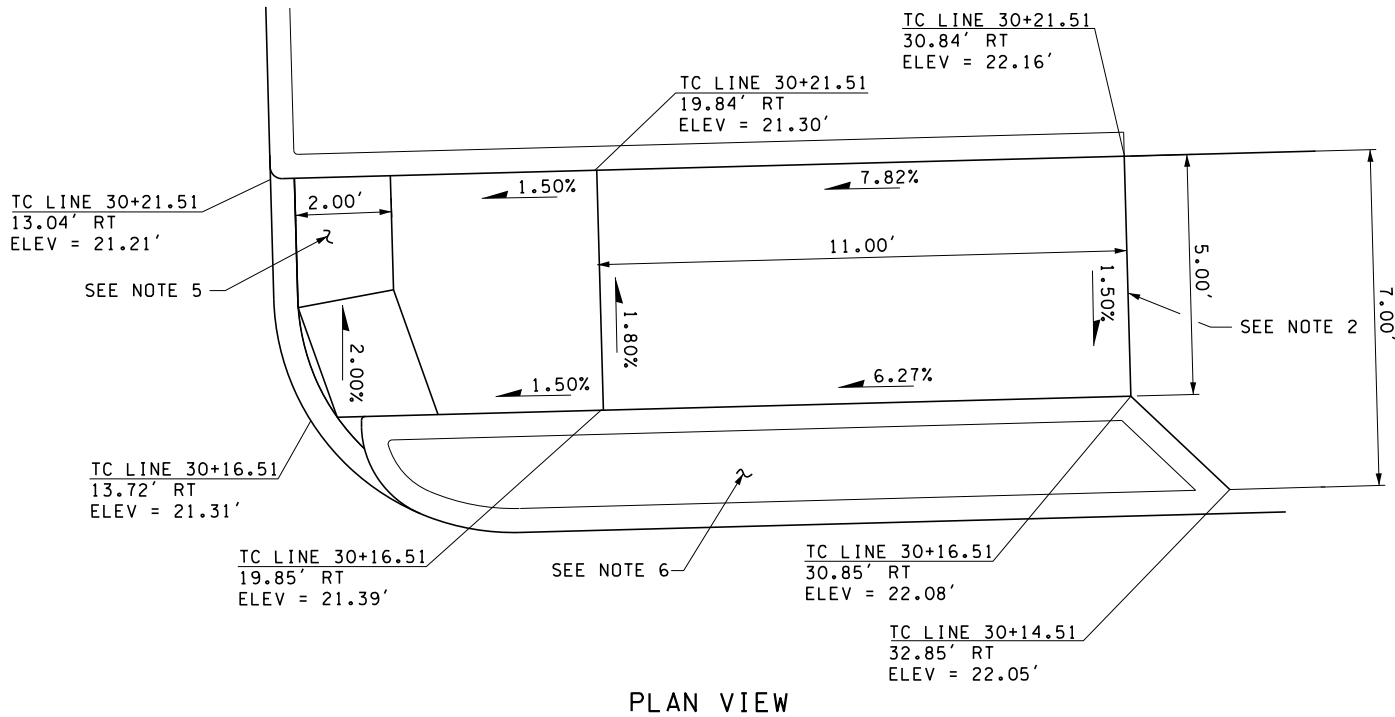


NOTES:

1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLAN F-40.14-03.
5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



11 NW CORNER OF FIRST ST AND  
EXIT TO TRANSIT CENTER  
CURB RAMP TYPE PERPENDICULAR A  
N.T.S.



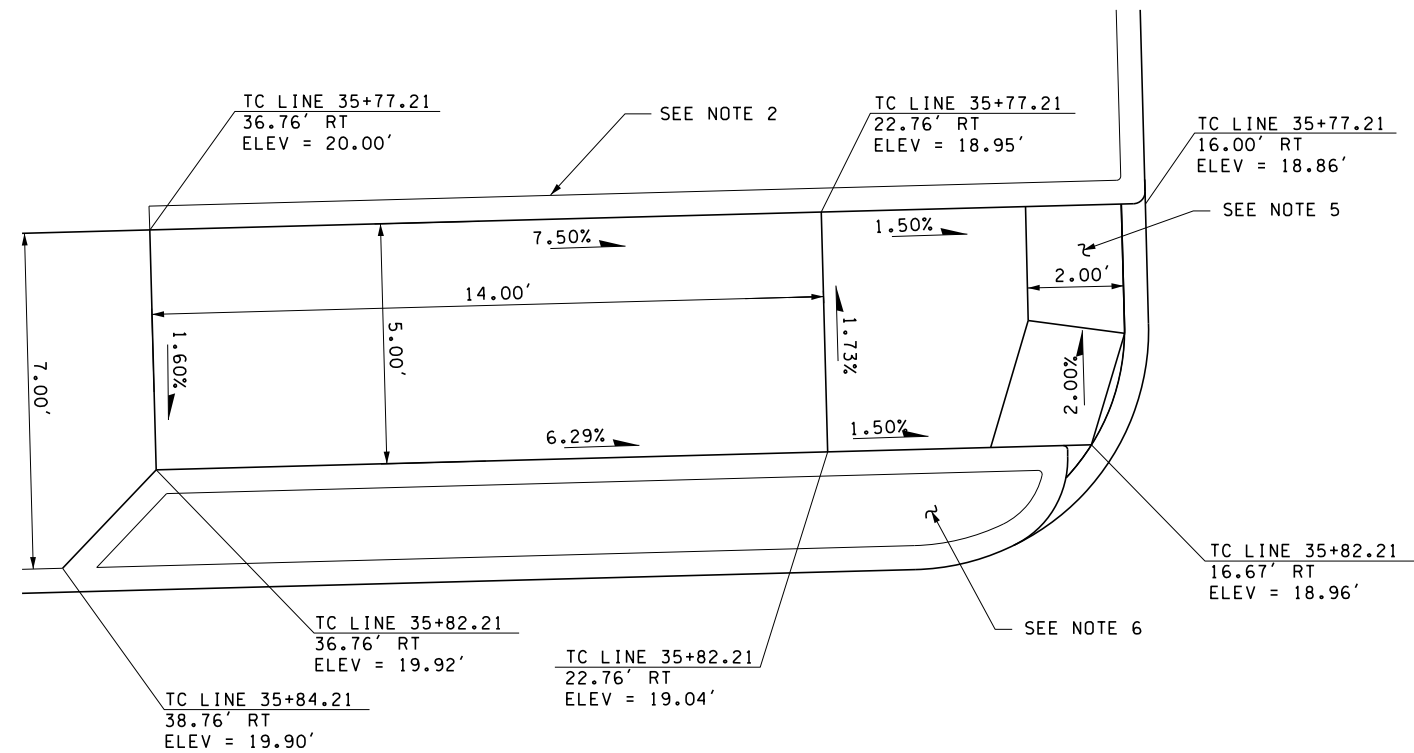
12 NE CORNER OF FIRST ST AND  
EXIT TO TRANSIT CENTER  
CURB RAMP TYPE SINGLE DIRECTION A  
N.T.S.

WSDOT STD Plan F-40.16-03

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$												Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525		C10.25
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:				MUKILTEO FERRY TERMINAL (PHASE 2)							
SUBMITTAL DATE: 1/18/19		#USERNAME#						FED.AID PROJ.NO.					SHEET		
DESIGNED BY: M. PANICK		1/18/19						WA-2017-007-00					264		
ENTERED BY: D. PERRY		1/18/19						REGION NO. STATE					OF		
CHECKED BY: M. PANICK		1/18/19						10 WASH					1521		
MAR PROJ ENGR: C. TORRES								JOB NUMBER					SHEETS		
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19		18W121							
ASST SECRETARY: A. SCARTON				REVISION		DATE BY		CONTRACT NO.							
								009321							

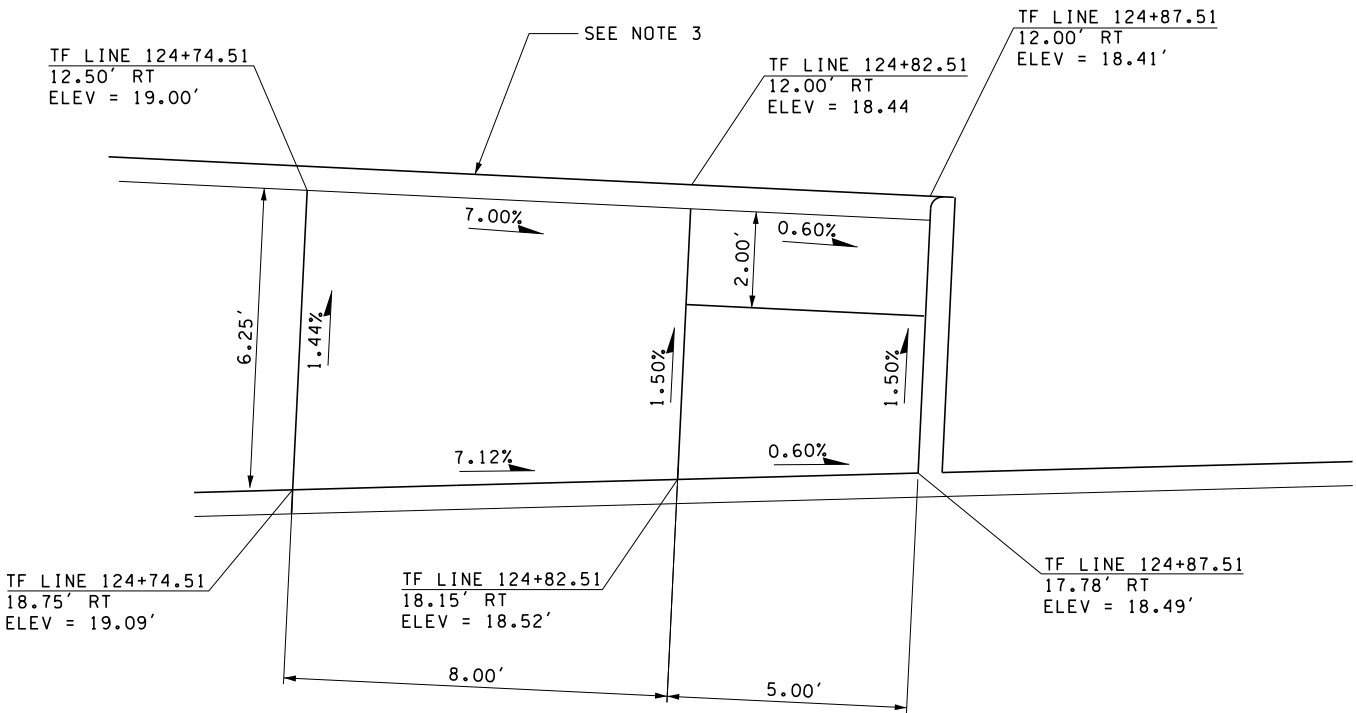


- NOTES:
- 1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
  - 2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
  - 3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
  - 4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLANS F-40.14-03.
  - 5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
  - 6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



PLAN VIEW  
**13** NW CORNER OF FIRST ST AND  
ENTRANCE TO TRANSIT CENTER  
CURB RAMP TYPE SINGLE DIRECTION A  
N.T.S.

WSDOT STD Plan F-40.16-03

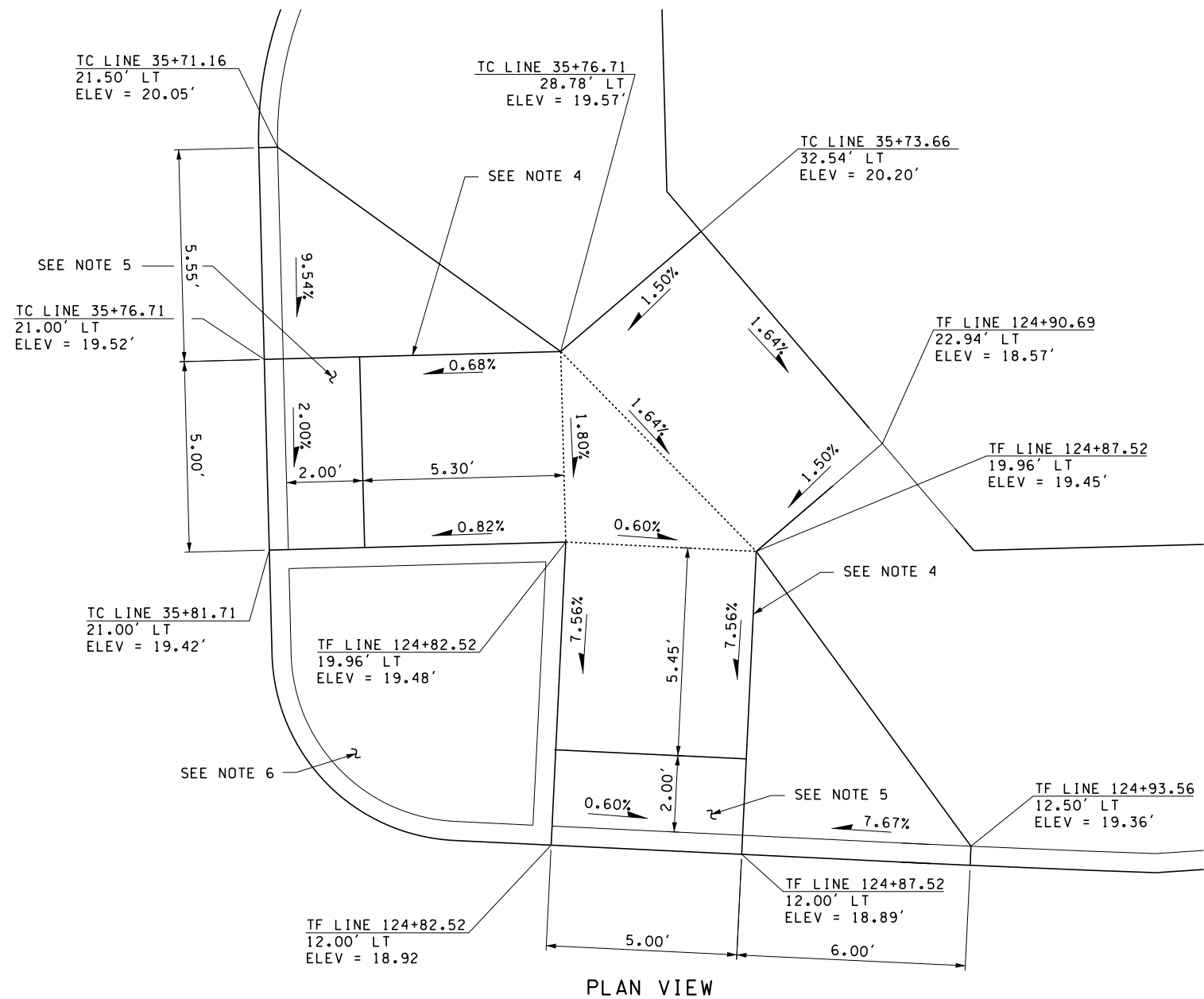


PLAN VIEW  
**15** SW CORNER OF FIRST ST AND  
ENTRANCE TO TRANSIT CENTER  
CURB RAMP TYPE PARALLEL B  
N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$												Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525		C10.26
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:				MUKILTEO FERRY TERMINAL (PHASE 2)							
SUBMITTAL DATE: 1/18/19		#USERNAME#						FED.AID PROJ.NO.					SHEET		
DESIGNED BY: M. PANICK		1/18/19						WA-2017-007-00					265		
ENTERED BY: D. PERRY		1/18/19						REGION NO. STATE					OF		
CHECKED BY: M. PANICK		1/18/19						10 WASH					1521		
MAR PROJ ENGR: C. TORRES								JOB NUMBER					SHEETS		
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19		18W121							
ASST SECRETARY: A. SCARTON				REVISION		DATE BY		CONTRACT NO. 009321							



- NOTES:
1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
  2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
  3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
  4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLANS F-40.14-03.
  5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
  6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$					
PRINTED: 1:27:46 PM 1/24/2019	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19	LudwigRC				WA-2017-007-00
DESIGNED BY: M. PANICK	1/18/19				REGION NO. STATE
ENTERED BY: D. PERRY	1/18/19				10 WASH
CHECKED BY: M. PANICK	1/18/19				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19		CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	009321



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

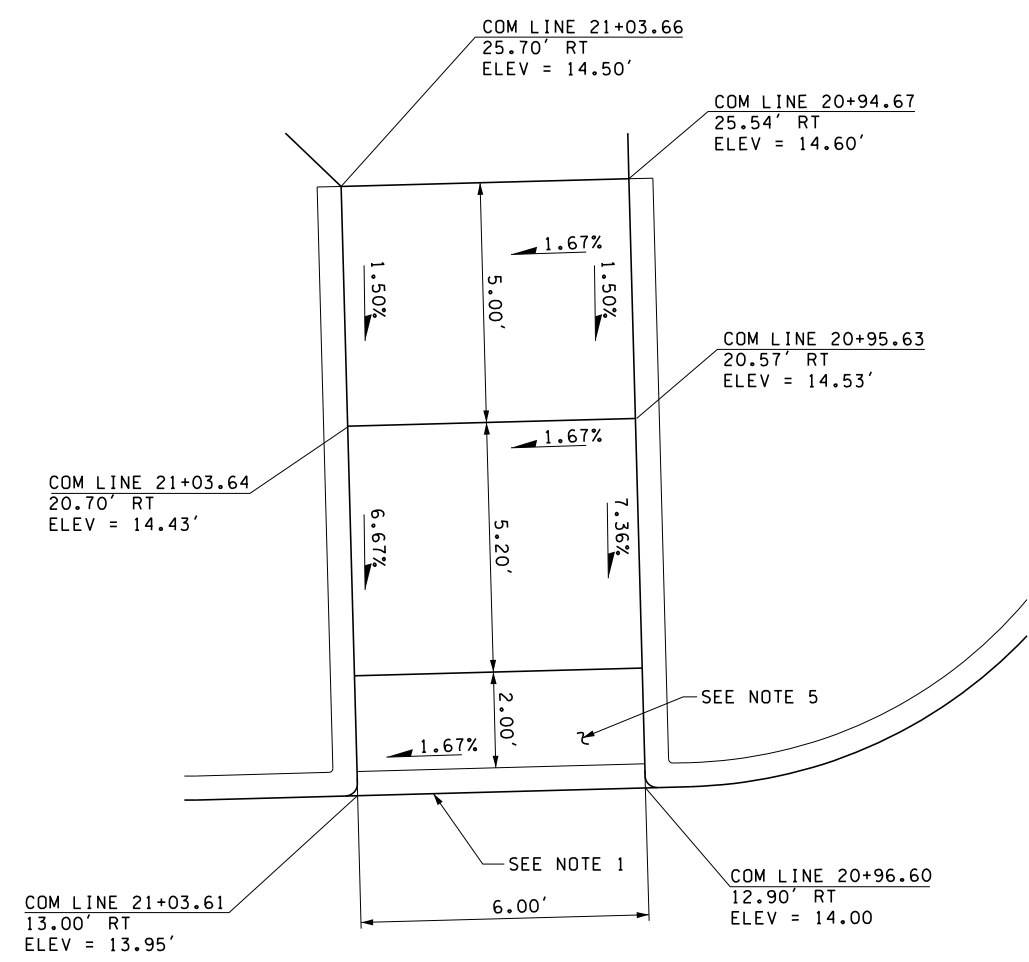
ADA RAMP DETAILS

C10.27

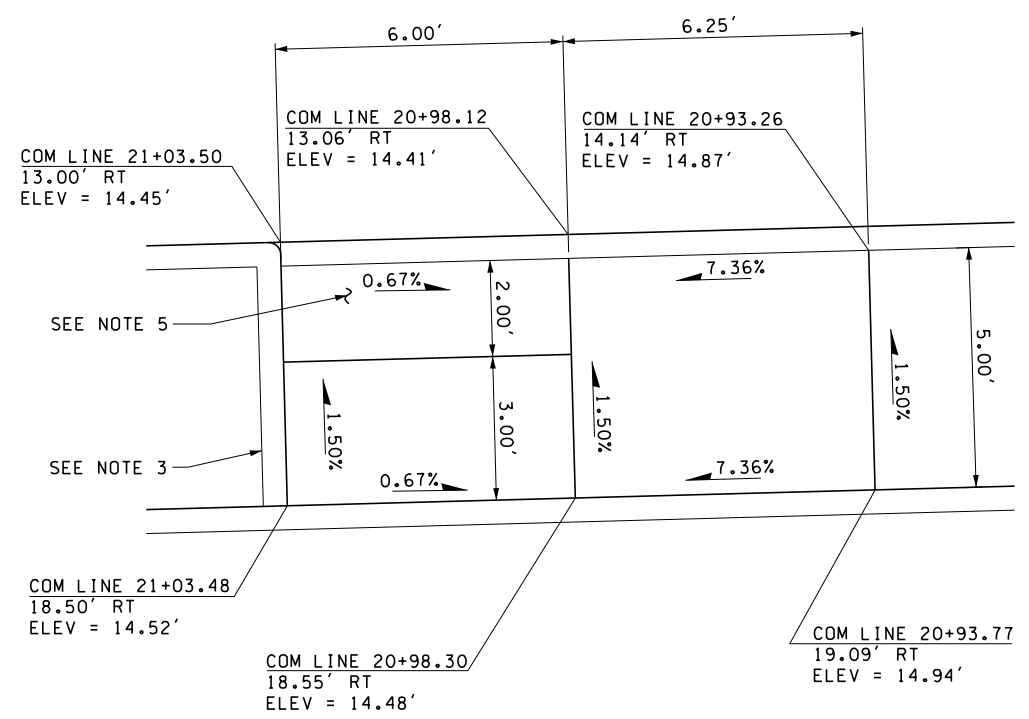
SHEET  
266  
OF  
1521  
SHEETS



- NOTES:
- 1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
  - 2. INSTALL SINGLE DIRECTION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
  - 3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
  - 4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLANS F-40.14-03.
  - 5. INSTALL DETECTABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
  - 6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



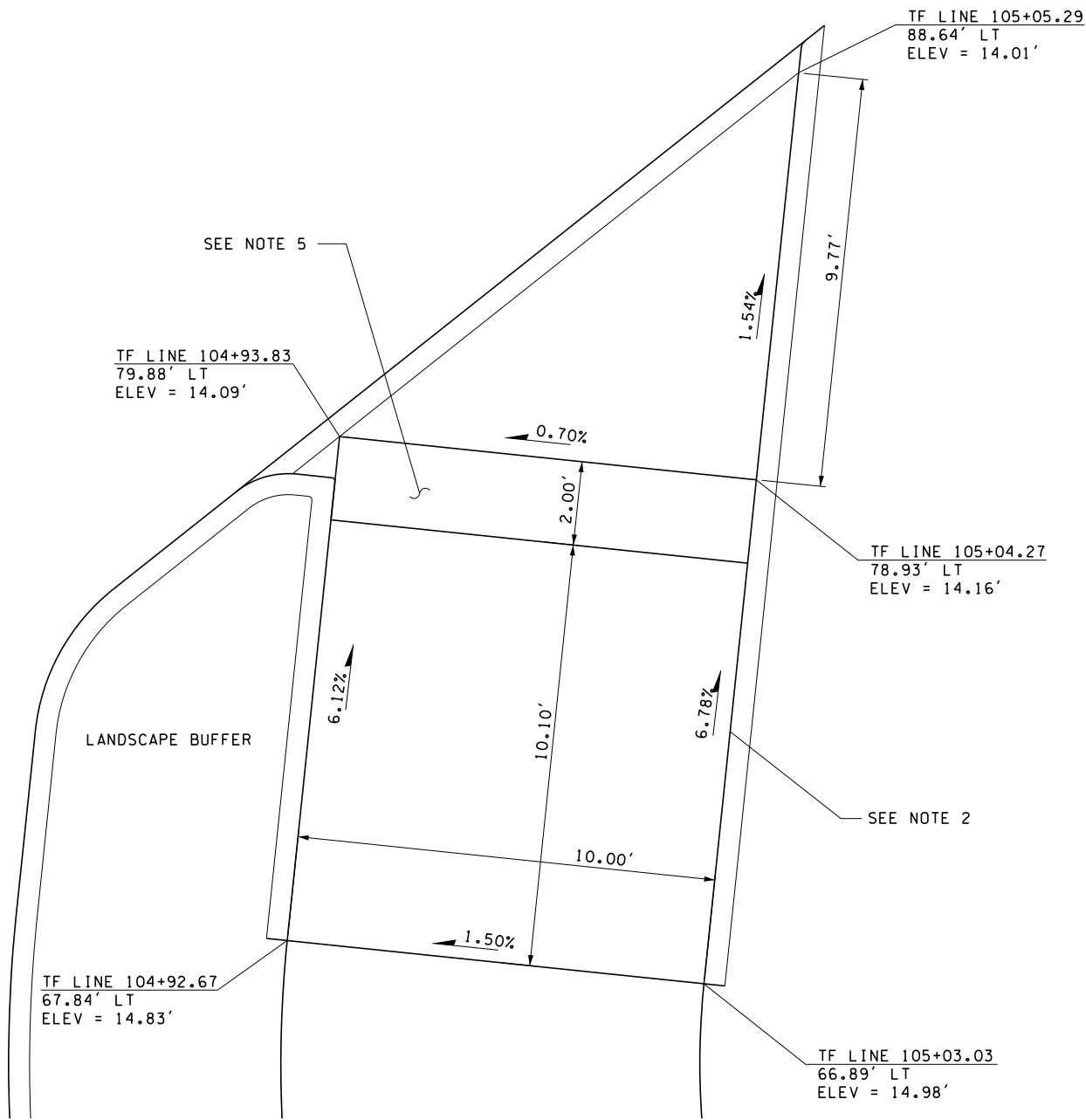
PLAN VIEW  
**16** NW CORNER OF CITY OF MUKILTEO  
C10.11 PARKING ENTRANCE  
CURB RAMP TYPE PERPENDICULAR B  
N.T.S.



PLAN VIEW  
**17** SW CORNER OF CITY OF MUKILTEO  
C10.11 PARKING ENTRANCE  
CURB RAMP TYPE PARALLEL B  
N.T.S.



- NOTES:
- 1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
  - 2. INSTALL SINGLE DIRETCION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
  - 3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
  - 4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLANS F-40.14-03.
  - 5. INSTALL DETETCABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
  - 6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



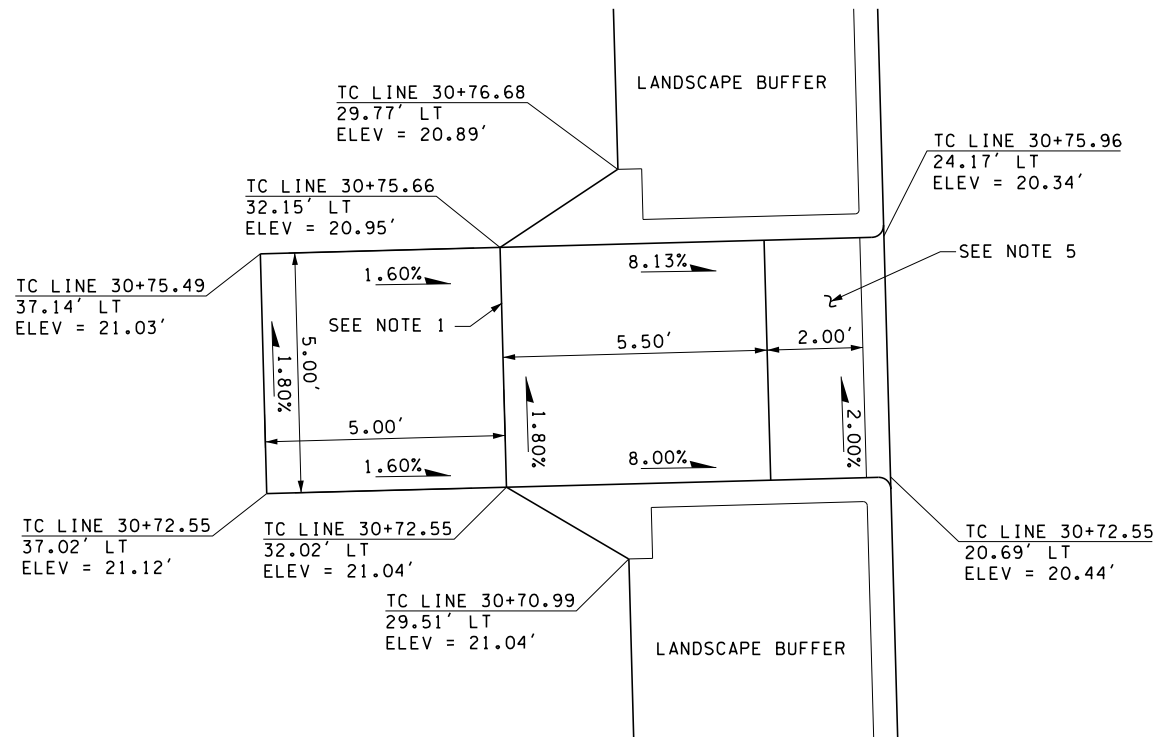
PLAN VIEW  
**18** NE CORNER OF SR525 EXTENSION  
AND PARK AVE  
CURB RAMP TYPE SINGLE DIRECTION A  
N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$														SR 525		C10.29
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:				FED.AID PROJ.NO.						MUKILTEO FERRY TERMINAL (PHASE 2)		
SUBMITTAL DATE:		1/18/19		*USERNAME*						WA-2017-007-00		FERRY TERMINAL CONSTRUCTION		SHEET		
DESIGNED BY:		M. PANICK		1/18/19						REGION NO. STATE				268		
ENTERED BY:		D. PERRY		1/18/19						10 WASH				OF		
CHECKED BY:		M. PANICK		1/18/19						JOB NUMBER				1521		
MAR PROJ ENGR:		C. TORRES								18W121				SHEETS		
DIR TERM ENGR:		N. MCINTOSH				CONFORMED PLANS		1/18/19		CONTRACT NO.						
ASST SECRETARY:		A. SCARTON				REVISION		DATE BY		009321						

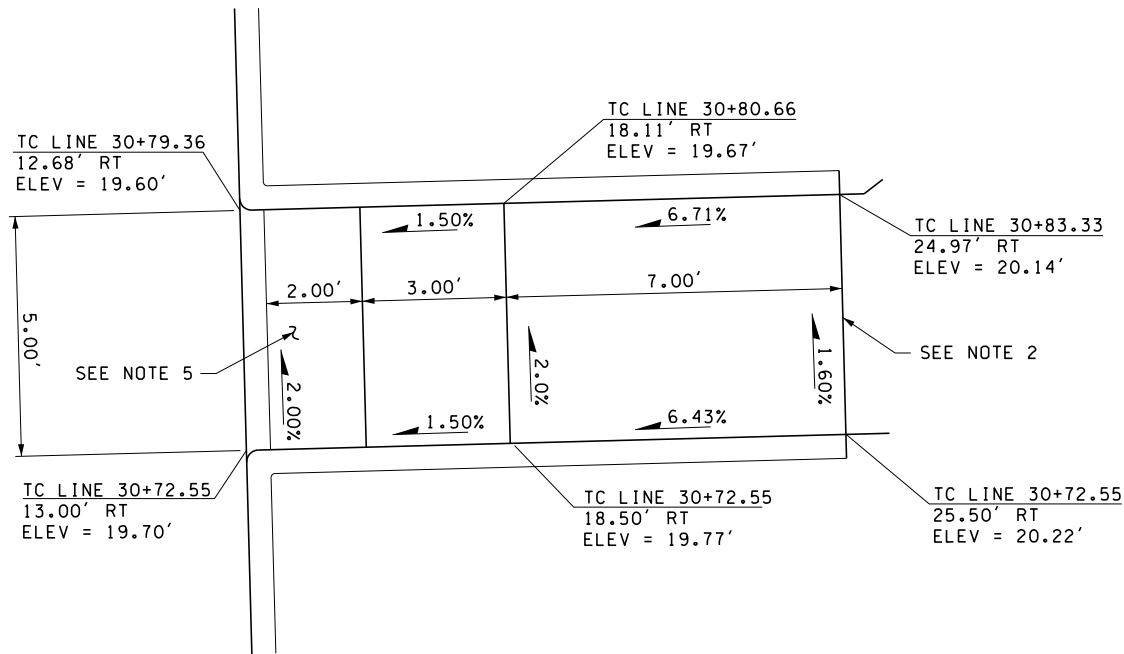


NOTES:

- 1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
- 2. INSTALL SINGLE DIRETCION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
- 3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
- 4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLANS F-40.14-03.
- 5. INSTALL DETETCABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
- 6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.



PLAN VIEW  
19  
C10.14  
WEST SIDE OF  
TRANSIT CENTER EXIT  
CURB RAMP TYPE PERPENDICULAR B  
N.T.S.



PLAN VIEW  
20  
C10.15  
EAST SIDE OF  
TRANSIT CENTER EXIT  
CURB RAMP TYPE SINGLE DIRECTION A  
N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID		
SUBMITTAL DATE: 1/18/19		#USERNAME#					PROJ.NO.		
DESIGNED BY: M. PANICK	1/18/19						WA-2017-007-00		
ENTERED BY: D. PERRY	1/18/19						REGION NO.	STATE	
CHECKED BY: M. PANICK	1/18/19						10	WASH	
MAR PROJ ENGR: C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH							18W121		
ASST SECRETARY: A. SCARTON							CONTRACT NO.		
							009321		
		CONFORMED PLANS	1/18/19						
		REVISION	DATE	BY					



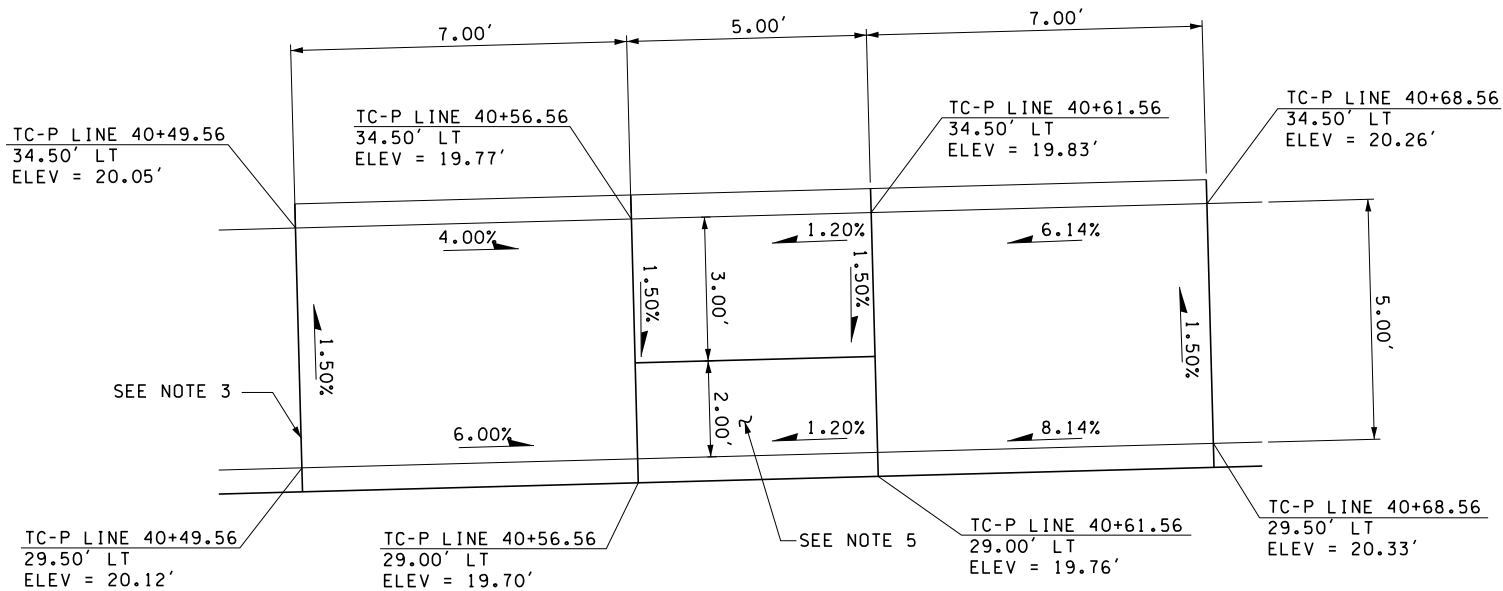
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
ADA RAMP DETAILS

C10.30  
SHEET  
269  
OF  
1521  
SHEETS

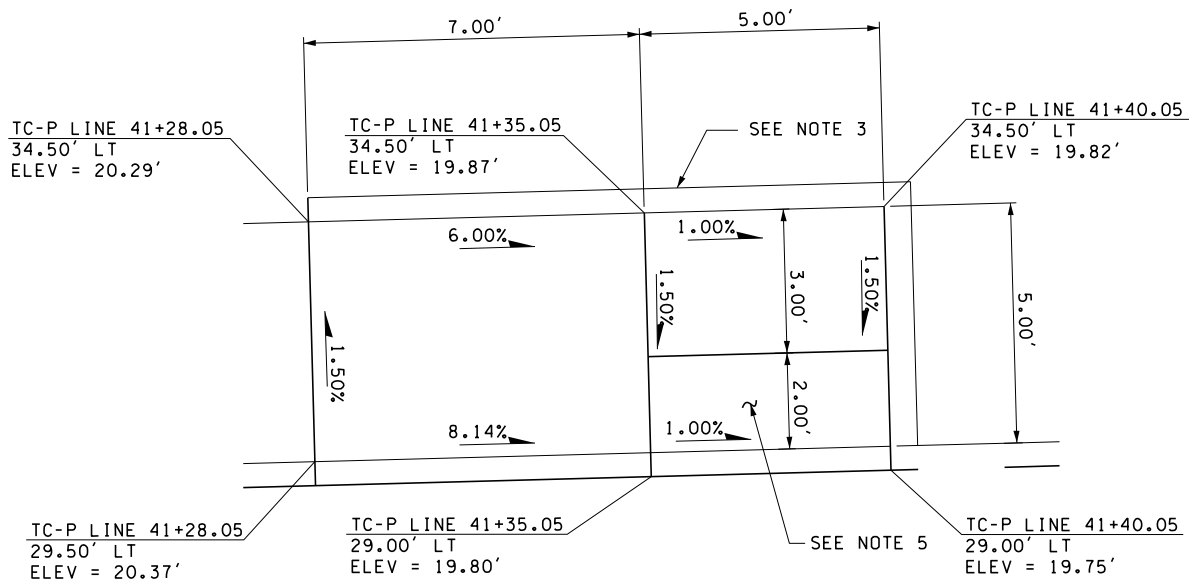


NOTES:

- 1. INSTALL PERPENDICULAR CURB RAMP PER WSDOT STD. PLAN F-40.15-03.
- 2. INSTALL SINGLE DIRETCION CURB RAMP PER WSDOT STD. PLAN F-40.16-03.
- 3. INSTALL PARALLEL CURB RAMP PER WSDOT STD. PLAN F-40.12-03.
- 4. INSTALL COMBINATION CURB RAMP PER WSDOT STD. PLANS F-40.1-03.
- 5. INSTALL DETETCABLE WARNING SURFACE PER WSDOT STD. PLAN F-45.10-02.
- 6. SEE LANDSCAPE DETAIL 5 SHEET C09.62 FOR LANDSCAPED AREA.

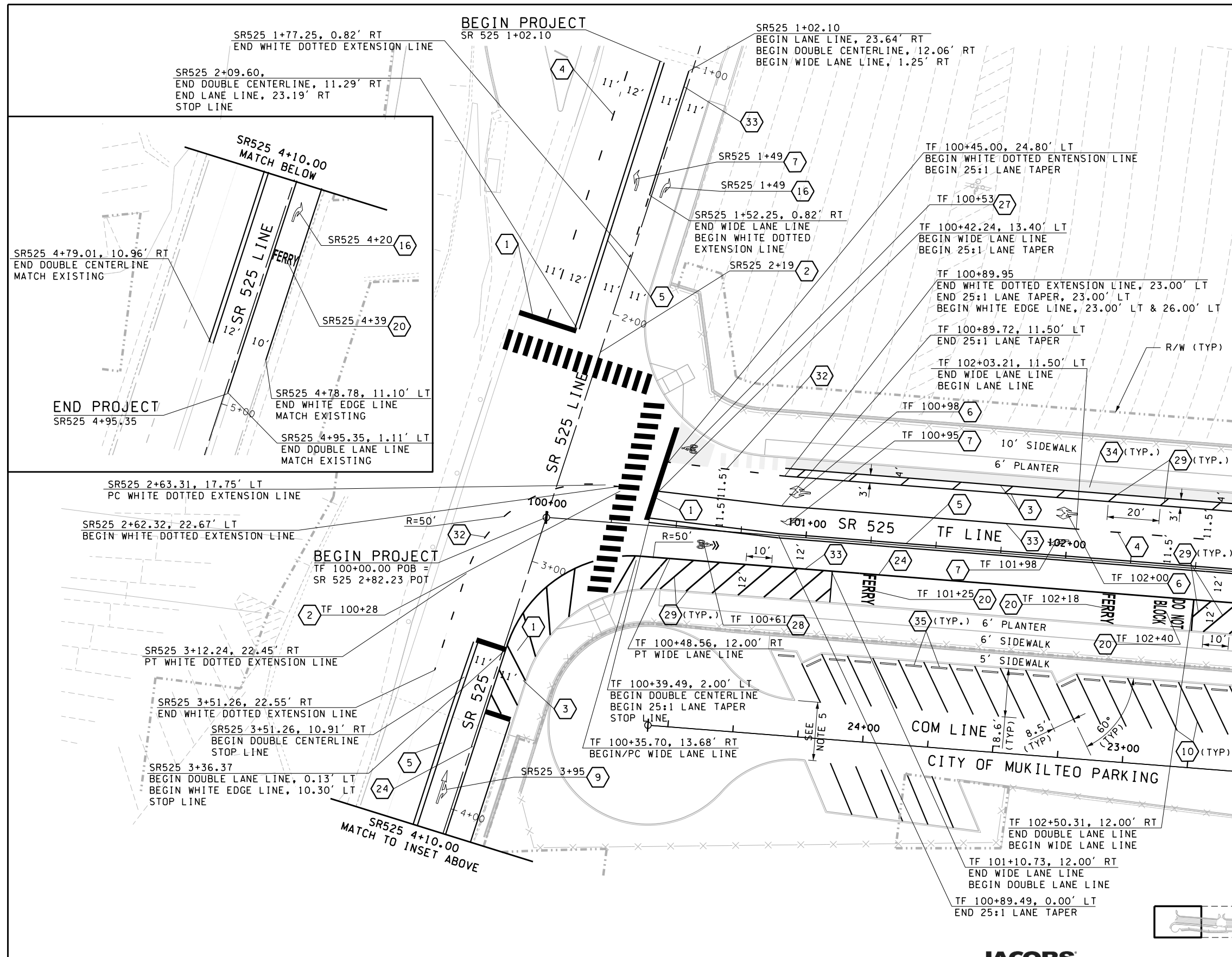


PLAN VIEW  
21 NORTH WEST SIDE OF  
C10.15 TRANSIT CENTER PARKING  
CURB RAMP TYPE PARALLEL A  
N.T.S.



PLAN VIEW  
22 NORTH EAST SIDE OF  
C10.15 TRANSIT CENTER PARKING  
CURB RAMP TYPE PARALLEL B  
N.T.S.



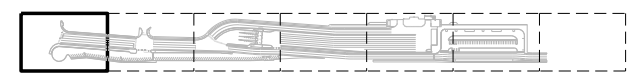


**NOTES:**

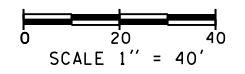
1. SEE ROADWAY ALIGNMENT PLAN SHEETS C06.10 TO C06.16 FOR ALIGNMENT DATA.
2. SEE SITE PREPARATION PLAN SHEETS C04.10 TO C04.16 FOR PAVEMENT SAWCUT AND PLANING LIMITS.
3. UTILITIES NOT SHOWN FOR CLARITY.
4. ALL PAVEMENT MARKINGS SHALL BE PLASTIC PER WSDOT STD PLAN M-20.10-02, UNLESS OTHERWISE NOTED.
5. WIDTH OF TWO-WAY TRAFFIC AREA ADJACENT TO PARKING VARIES, BUT IS >22' (CODE MIN.).

**CONSTRUCTION NOTES:**

1. INSTALL 24" PLASTIC STOP LINE PER WSDOT STD. PLAN M-24.60-04.
2. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01.
3. INSTALL PROFILED PLASTIC WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
4. INSTALL PROFILED PLASTIC LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
5. INSTALL PROFILED PLASTIC DOUBLE CENTERLINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
6. INSTALL TYPE 4S TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
7. INSTALL TYPE 2SL TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
9. INSTALL TYPE 3SR TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
10. INSTALL 4" WIDE, WHITE PAINT LINE PER WSDOT STD. PLAN M-17.10-02.
16. INSTALL TYPE 2SR TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
20. INSTALL TRAFFIC LETTERS PER WSDOT STD. PLAN M-80.30-00.
24. INSTALL PROFILED PLASTIC DOUBLE LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
27. INSTALL BIKE RIDER SYMBOL PER WSDOT STD. PLAN M-9.50-02.
28. INSTALL BICYCLE SHARED LANE MARKING PER MUTCD FIGURE 9C-9.
29. INSTALL WHITE DIAGONAL CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60-04.
32. INSTALL PROFILED PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
33. INSTALL PROFILED PLASTIC WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
34. INSTALL GREEN PAVEMENT MARKING WITHIN THE BIKE LANE.
35. INSTALL WHEEL STOP PER WSDOT STD. PLAN M-17.10-02.

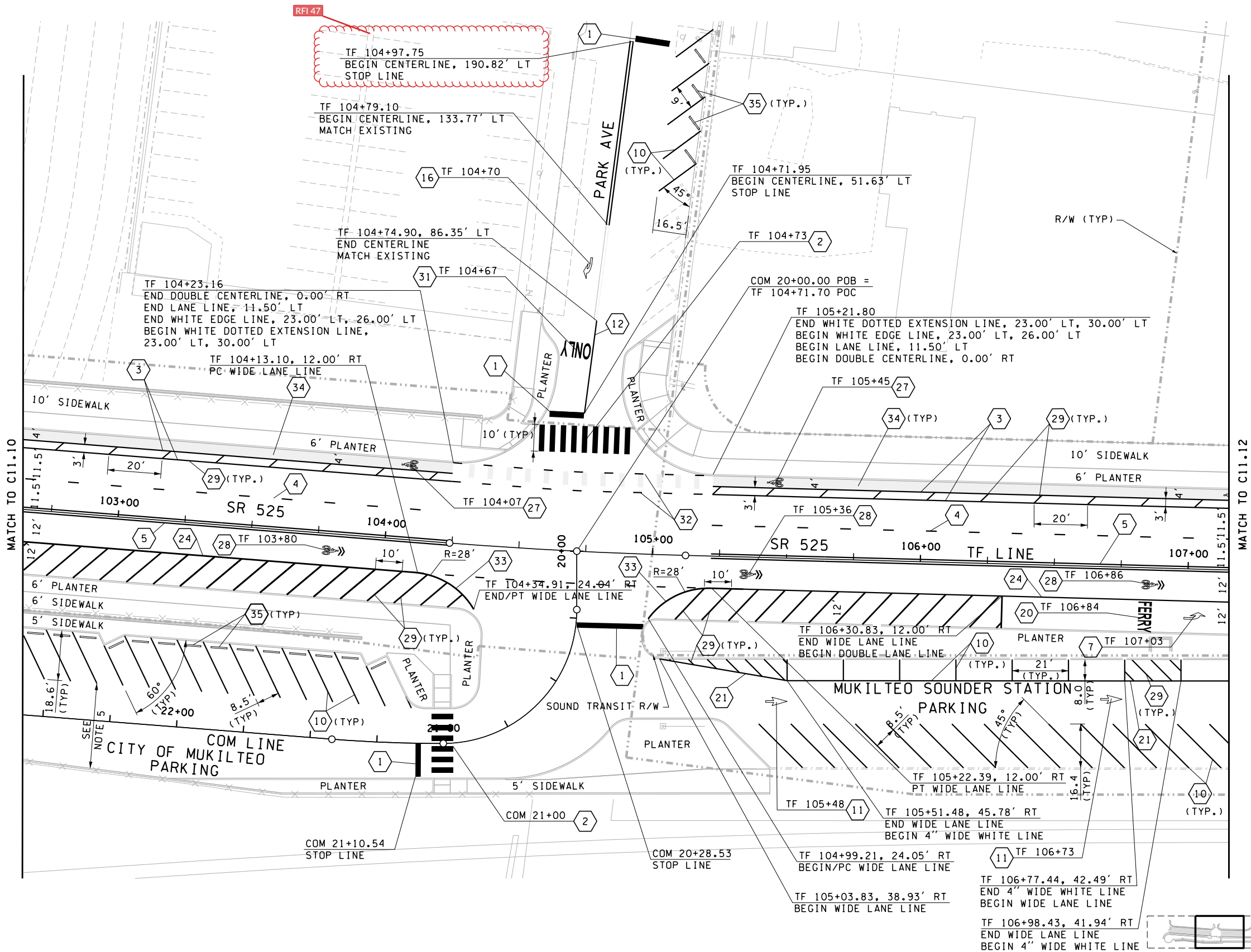


KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c11-10.dlv							 <b>Washington State</b> <b>Department of Transportation</b> WASHINGTON STATE FERRIES		SR 525		C11.10	
PRINTED: 7:05:48 AM 1/21/2019		LAST PRINTED BY:		MUKILTEO FERRY TERMINAL (PHASE 2)								
SUBMITTAL DATE: 1/18/19		DESIGNED BY: M. PANICK		ENTERED BY: K. THOMAS		CHECKED BY: J. SCHENKMAN		MAR PROJ ENGR: C. TORRES		DIR TERM ENGR: N. MCINTOSH		SHEET 271 OF 1521 SHEETS
ASST SECRETARY: A. SCARTON		CONFORMED PLANS		1/18/19		REVISION		DATE		BY		





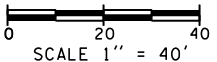
NOTES:

1. SEE ALIGNMENT PLAN SHEETS C06.10 TO C06.16 FOR ALIGNMENT DATA LOCATIONS.
2. SEE SITE PREPARATION PLAN SHEETS C04.10 TO C04.16 FOR PAVEMENT SAWCUT AND PLANING LIMITS.
3. UTILITIES NOT SHOWN FOR CLARITY.
4. ALL PAVEMENT MARKINGS SHALL BE PLASTIC PER WSDOT STD PLAN M-20.10-02, UNLESS OTHERWISE NOTED.
5. WIDTH OF TWO-WAY TRAFFIC AREA ADJACENT TO PARKING VARIES, BUT IS >22' (CODE MIN.).

CONSTRUCTION NOTES:

1. INSTALL 24" PLASTIC STOP LINE PER WSDOT STD. PLAN M-24.60-04.
2. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01.
3. INSTALL PROFILED PLASTIC WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
4. INSTALL PROFILED PLASTIC LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
5. INSTALL PROFILED PLASTIC DOUBLE CENTERLINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
7. INSTALL TYPE 2SL TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
10. INSTALL 4" WIDE, WHITE PAINT LINE PER WSDOT STD. PLAN M-17.10-02.
11. INSTALL TYPE 1S TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
12. INSTALL CENTERLINE PER WSDOT STD. PLAN M-20.10-02.
16. INSTALL TYPE 2SR TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
20. INSTALL TRAFFIC LETTERS PER WSDOT STD. PLAN M-80.30-00.
21. INSTALL WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-02.
24. INSTALL PROFILED PLASTIC DOUBLE LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
27. INSTALL BIKE RIDER SYMBOL PER WSDOT STD. PLAN M-9.50-02.
28. INSTALL BICYCLE SHARED LANE MARKING PER MUTCD FIGURE 9C-9.
29. INSTALL WHITE DIAGONAL CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60-04.
31. INSTALL LETTER MARKING "ONLY" PER LOW-SPEED APPLICATION PER WSDOT STD. PLAN M-80.10-01.
32. INSTALL PROFILED PLASTIC WHITE DOTTED EXTENTION LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
33. INSTALL PROFILED PLASTIC WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
34. INSTALL GREEN PAVEMENT MARKING WITHIN THE BIKE LANE.
35. INSTALL WHEEL STOP PER WSDOT STD. PLAN M-17.10-02.

KEY PLAN



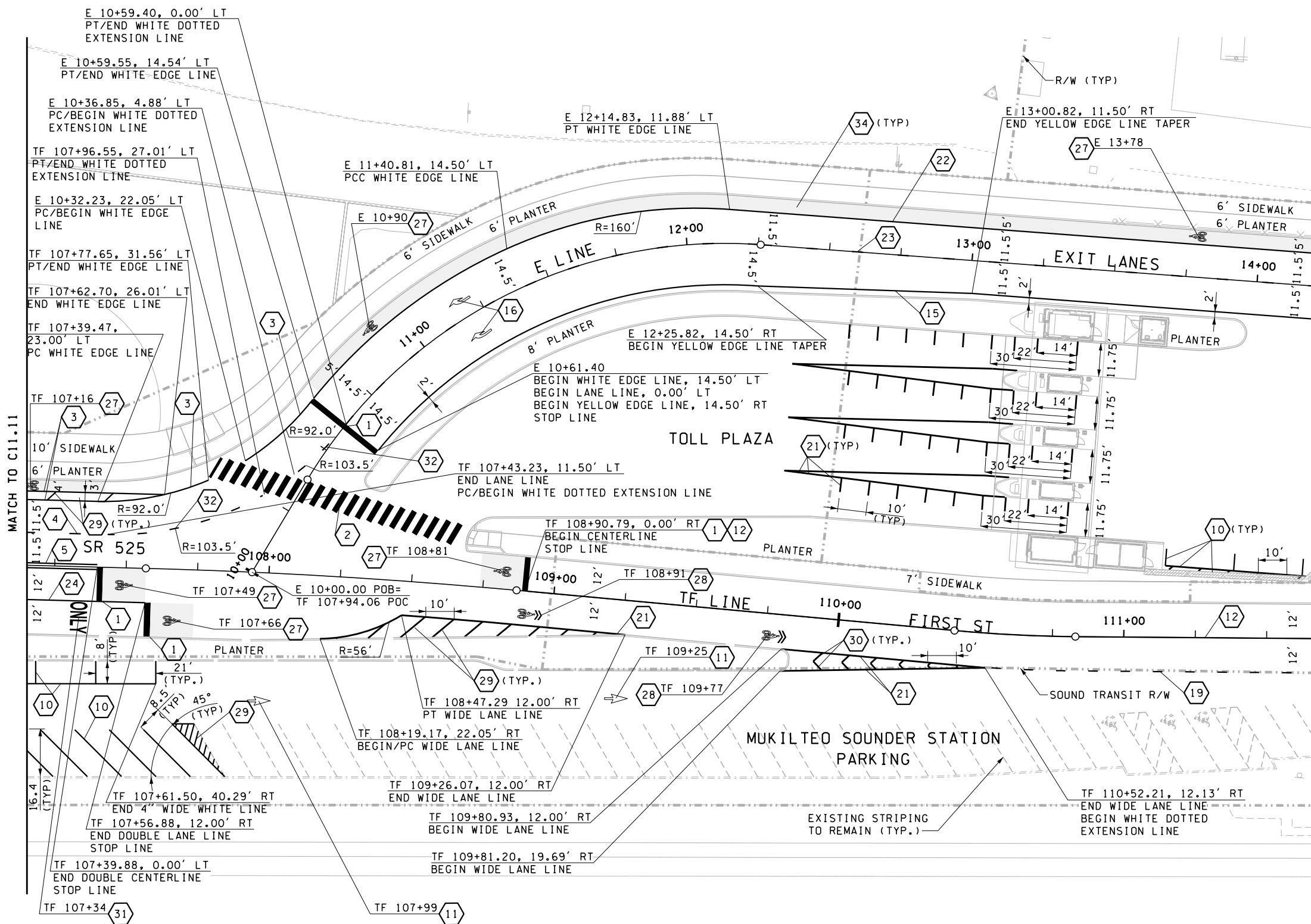
FILE NAME: WSW\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		#USERNAME#		WA-2017-007-00
DESIGNED BY: M. PANICK	1/18/19			REGION NO. STATE
ENTERED BY: K. THOMAS	1/18/19			10 WASH
CHECKED BY: J. SCHENKMAN	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PAVEMENT MARKING PLAN

C11.11  
SHEET  
272  
OF  
1521  
SHEETS



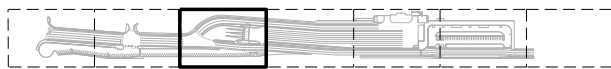


NOTES:

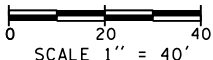
- SEE ALIGNMENT PLAN SHEETS C06.10 TO C06.16 FOR ALIGNMENT DATA.
- SEE SITE PREPARATION PLAN SHEETS C04.10 TO C04.16 FOR PAVEMENT SAWCUT AND PLANING LIMITS.
- UTILITIES NOT SHOWN FOR CLARITY.
- ALL PAVEMENT MARKINGS SHALL BE PLASTIC PER WSDOT STD PLAN M-20.10-02, UNLESS OTHERWISE NOTED.
- EXIT LANES ARE 11.5' WIDE ON TANGENT. TO MEET REQUIREMENTS OF LANE WIDENING AROUND CURVES FOR EXIT LANES FOR WB-40, THE TRAVELED ROADWAY WIDTH MUST BE INCREASED FROM 23' TO 29'. THIS INCREASE MAKES EACH LANE 14.5' WIDE THROUGHOUT THE ENTIRE CURVE.
- SEE BUILDING PLANS FOR FOUNDATION AND OTHER ITEMS RELATED TO THE BUILDING.

CONSTRUCTION NOTES:

- INSTALL 24" PLASTIC STOP LINE PER WSDOT STD. PLAN M-24.60-04.
- INSTALL PLASTIC CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01.
- INSTALL PROFILED PLASTIC WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
- INSTALL PROFILED PLASTIC LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
- INSTALL PROFILED PLASTIC DOUBLE CENTERLINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
- INSTALL 4" WIDE, WHITE PAINT LINE PER WSDOT STD. PLAN M-17.10-02.
- INSTALL TYPE 1S TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
- INSTALL CENTERLINE PER WSDOT STD. PLAN M-20.10-02.
- INSTALL YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
- INSTALL TYPE 2SR TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
- INSTALL WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-02.
- INSTALL WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-02.
- INSTALL WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
- INSTALL LANE LINE PER WSDOT STD. PLAN M-20.10-02.
- INSTALL PROFILED PLASTIC DOUBLE LANE LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
- INSTALL BIKE RIDER SYMBOL PER WSDOT STD. PLAN M-9.50-02.
- INSTALL BICYCLE SHARED LANE MARKING PER MUTCD FIGURE 9C-9.
- INSTALL WHITE DIAGONAL CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60-04.
- INSTALL WHITE CHEVRON CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60-04.
- INSTALL LETTER MARKING "ONLY" PER LOW-SPEED APPLICATION PER WSDOT STD. PLAN M-80.10-01.
- INSTALL PROFILED PLASTIC WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-02 AND M-20.20-02.
- INSTALL GREEN PAVEMENT MARKING WITHIN THE BIKE LANE



KEY PLAN



JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVEMENT MARKING PLAN

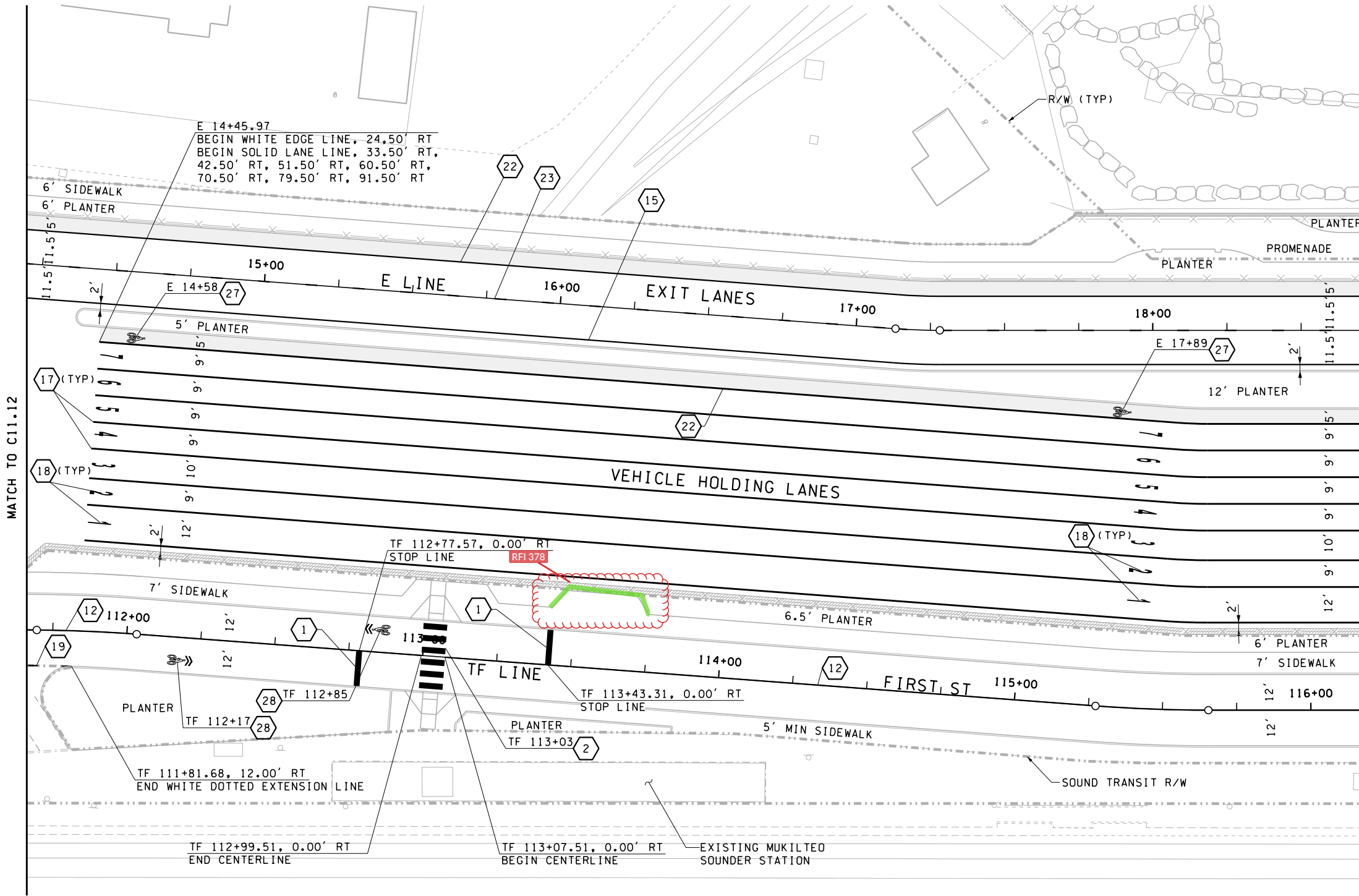
C11.12

SHEET  
273  
OF  
1521  
SHEETS

FILE NAME: WSW\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		USERNAME:		WA-2017-007-00
DESIGNED BY: P. CROWLEY	1/18/19			REGION NO. STATE
ENTERED BY: K. THOMAS	1/18/19			10 WASH
CHECKED BY: M. PANICK	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE BY	009321







MATCH TO C11.12

MATCH TO C11.14

NOTES:

1. SEE ALIGNMENT PLAN SHEETS C06.10 TO C06.16 FOR ALIGNMENT DATA.
2. SEE SITE PREPARATION PLAN SHEETS C04.10 TO C04.16 FOR PAVEMENT SAWCUT AND PLANING LIMITS.
3. UTILITIES NOT SHOWN FOR CLARITY.
4. ALL PAVEMENT MARKINGS SHALL BE PLASTIC PER WSDOT STD PLAN M-20.10-02, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

1. INSTALL 24" PLASTIC STOP LINE PER WSDOT STD. PLAN M-24.60-04.
2. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01.
12. INSTALL CENTERLINE PER WSDOT STD. PLAN M-20.10-02.
15. INSTALL YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
17. INSTALL SOLID LANE LINE PER WSDOT STD. PLAN M-20.10-02.
18. INSTALL TRAFFIC NUMERALS PER WSDOT STD. PLAN M-80.30-00.
19. INSTALL WHITE DOTTED EXTENSION LINE PER WSDOT STD. PLAN M-20.10-02.
22. INSTALL WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
23. INSTALL LANE LINE PER WSDOT STD. PLAN M-20.10-02.
27. INSTALL BIKE RIDER SYMBOL PER WSDOT STD. PLAN M-9.50-02.
28. INSTALL BICYCLE SHARED LANE MARKING PER MUTCD FIGURE 9C-9.

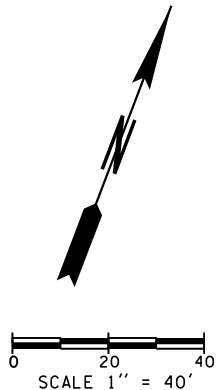
RFI 378 -

The junction box and irrigation meter location may follow any of the three options below:

1. Adjust locations to be outside of the bus stop and within planting areas if they have not been placed.
2. If they have already been placed, the bus stop may be moved further east to avoid direct conflicts. However, prior to moving the proposed distance shift needs to be evaluated by the roadway designer to verify the location of the associated stop bar (see attached drawing C11.13) stays within design parameters of the midblock crossing and the bus stop.
- or
3. Maintain locations of junction box and meter box and place bus stop pavement around boxes, and confirm that lids specified are ADA compliant with adequate friction coefficient for pedestrian areas



KEY PLAN



JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

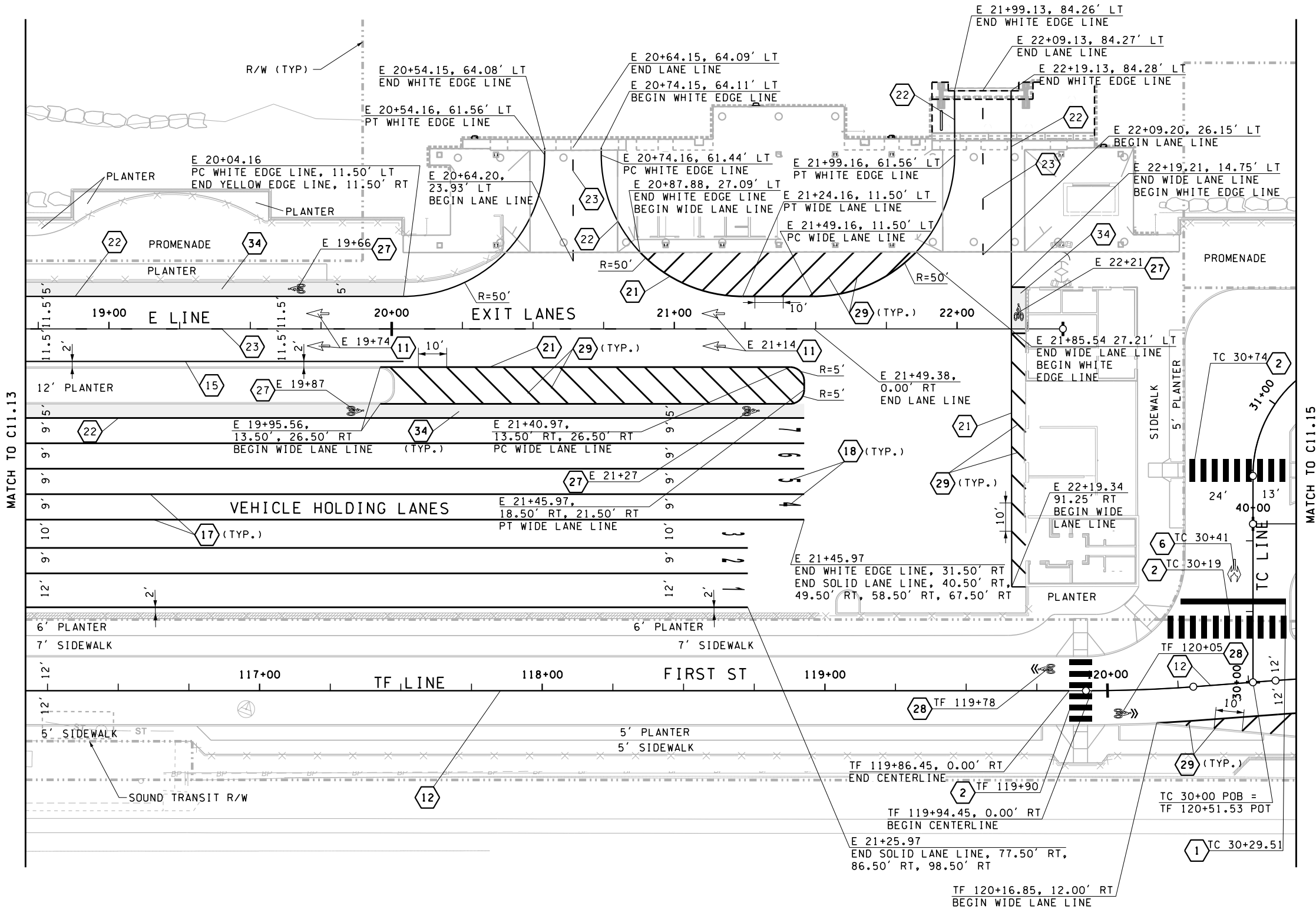
PAVEMENT MARKING PLAN

C11.13

SHEET  
274  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID		
SUBMITTAL DATE: 1/18/19		#USERNAME#					PROJ.NO.		
DESIGNED BY: P. CROWLEY		1/18/19					WA-2017-007-00		
ENTERED BY: K. THOMAS		1/18/19					REGION NO.	STATE	
CHECKED BY: M. PANICK		1/18/19					10	WASH	
MAR PROJ ENGR: C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH							18W121		
ASST SECRETARY: A. SCARTON							CONTRACT NO.		
							009321		
		CONFORMED PLANS	1/18/19						
		REVISION	DATE	BY					





MATCH TO C11.13

MATCH TO C11.15

NOTES:

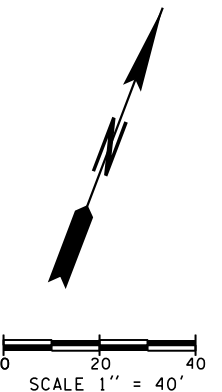
1. SEE ROADWAY ALIGNMENT PLAN SHEETS C06.10 TO C06.16 FOR ALIGNMENT DATA LOCATIONS.
2. SEE SITE PREPARATION PLAN SHEETS C04.10 TO C04.16 FOR PAVEMENT SAWCUT AND PLANING LIMITS.
3. UTILITIES NOT SHOWN FOR CLARITY.
4. ALL PAVEMENT MARKINGS SHALL BE PLASTIC PER WSDOT STD PLAN M-20.10-02, UNLESS OTHERWISE NOTED.
7. SEE BUILDING PLANS FOR FOUNDATION AND OTHER ITEMS RELATED TO THE BUILDING.

CONSTRUCTION NOTES:

1. INSTALL 24" PLASTIC STOP LINE PER WSDOT STD. PLAN M-24.60-04.
2. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01.
6. INSTALL TYPE 4S TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02
11. INSTALL TYPE 1S TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
12. INSTALL CENTERLINE PER WSDOT STD. PLAN M-20.10-02.
15. INSTALL YELLOW EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
17. INSTALL SOLID LANE LINE PER WSDOT STD. PLAN M-20.10-02.
18. INSTALL TRAFFIC NUMERALS PER WSDOT STD. PLAN M-80.30-00.
21. INSTALL WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-02.
22. INSTALL WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
23. INSTALL LANE LINE PER WSDOT STD. PLAN M-20.10-02.
27. INSTALL BIKE RIDER SYMBOL PER WSDOT STD. PLAN M-9.50-02.
28. INSTALL BICYCLE SHARED LANE MARKING PER MUTCD FIGURE 9C-9.
29. INSTALL DIAGONAL CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60-04.
34. INSTALL GREEN PAVEMENT MARKING WITHIN THE BIKE LANE.



KEY PLAN



SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$					
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.	
SUBMITTAL DATE: 1/18/19		#USERNAME#		WA-2017-007-00	
DESIGNED BY: P. CROWLEY	1/18/19			REGION NO. STATE	
ENTERED BY: K. THOMAS	1/18/19			10 WASH	
CHECKED BY: M. PANICK	1/18/19			JOB NUMBER	
MAR PROJ ENGR: C. TORRES				18W121	
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.	
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321	



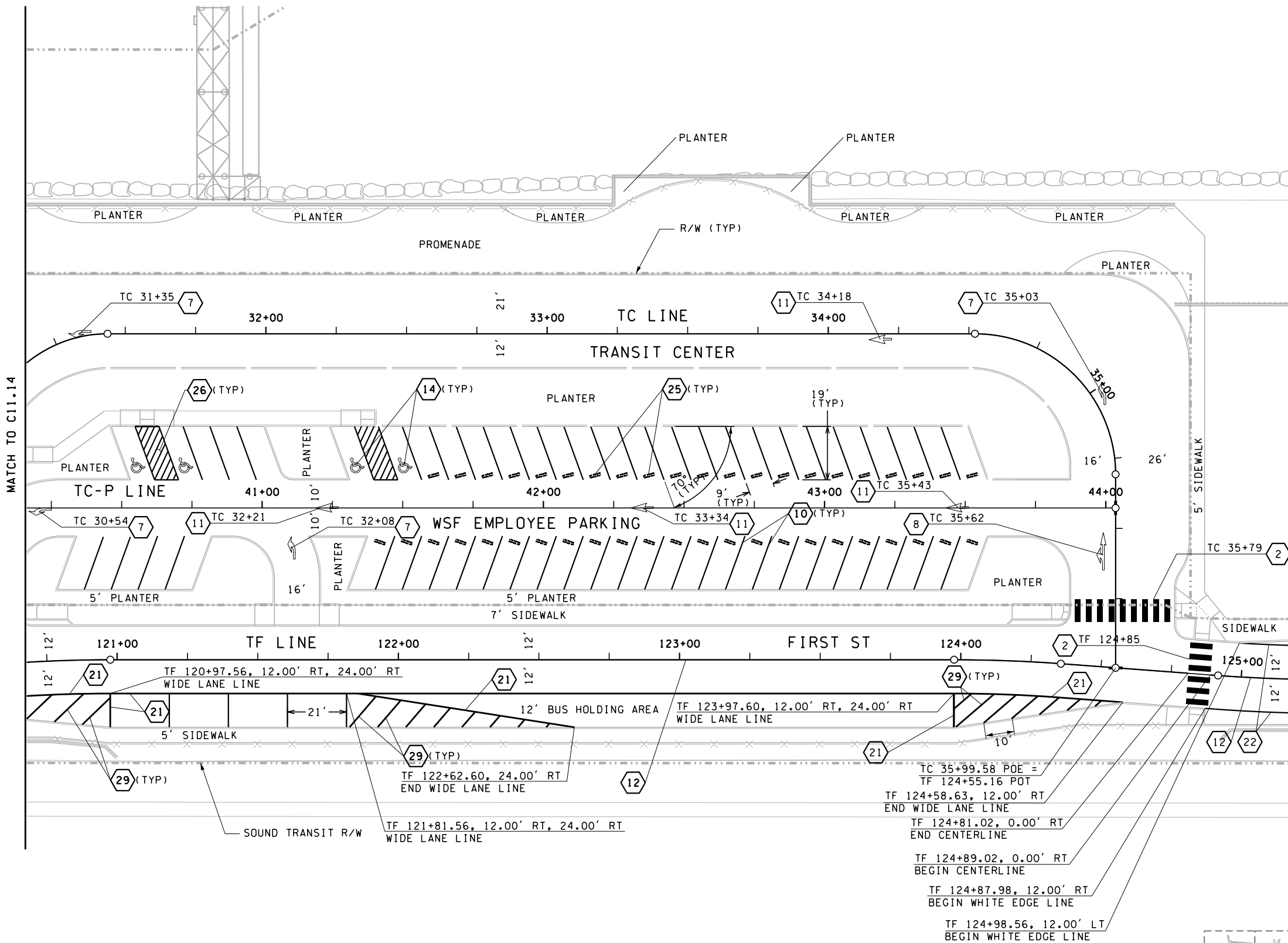
01/18/19



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PAVEMENT MARKING PLAN

C11.14  
SHEET  
275  
OF  
1521  
SHEETS





MATCH TO C11.14

MATCH TO C11.16

#### NOTES:

1. SEE ROADWAY ALIGNMENT PLAN SHEETS C06.10 TO C06.16 FOR ALIGNMENT DATA.
2. SEE SITE PREPARATION PLAN SHEETS C04.10 TO C04.16 FOR PAVEMENT SAWCUT AND PLANING LIMITS.
3. UTILITIES NOT SHOWN FOR CLARITY.
4. ALL PAVEMENT MARKINGS SHALL BE PLASTIC PER WSDOT STD PLAN M-20.10-02, UNLESS OTHERWISE NOTED.

#### CONSTRUCTION NOTES:

2. INSTALL PLASTIC CROSSWALK LINE PER WSDOT STD. PLAN M-15.10-01.
7. INSTALL TYPE 2SL TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
8. INSTALL TYPE 3SL TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
10. INSTALL 4" WIDE, WHITE PAINT LINE PER WSDOT STD. PLAN M-24.40-02.
11. INSTALL TYPE 1S TRAFFIC ARROW PER WSDOT STD. PLAN M-24.40-02.
12. INSTALL CENTERLINE PER WSDOT STD. PLAN M-20.10-02.
14. INSTALL ACCESS PARKING SPACE SYMBOL (STANDARD) PER WSDOT STD. PLAN M-24.60-04.
21. INSTALL WIDE LANE LINE PER WSDOT STD. PLAN M-20.10-02.
22. INSTALL WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
25. INSTALL 3" WHITE PAINT TRAFFIC LETTERS.
26. INSTALL TWO ACCESSIBLE STALLS PER WSDOT STD. PLAN M-17.10-02.
29. INSTALL DIAGONAL CROSSHATCH MARKING PER WSDOT STD. PLAN M-24.60-04.



KEY PLAN

0 20 40  
SCALE 1" = 40'

JACOBS

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\ \$FILES\$

PRINTED: \$\$TIME\$\$ \$DATE\$\$

SUBMITTAL DATE: 1/18/19

DESIGNED BY: P. CROWLEY

ENTERED BY: N. LAUGHLIN

CHECKED BY: M. PANICK

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

#USERNAME#

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

REVISION

DATE

DATE

BY

BY

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

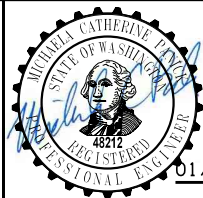
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321



01/18/19



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVEMENT MARKING PLAN

C11.15

SHEET

276

OF

1521

SHEETS

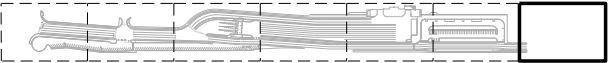
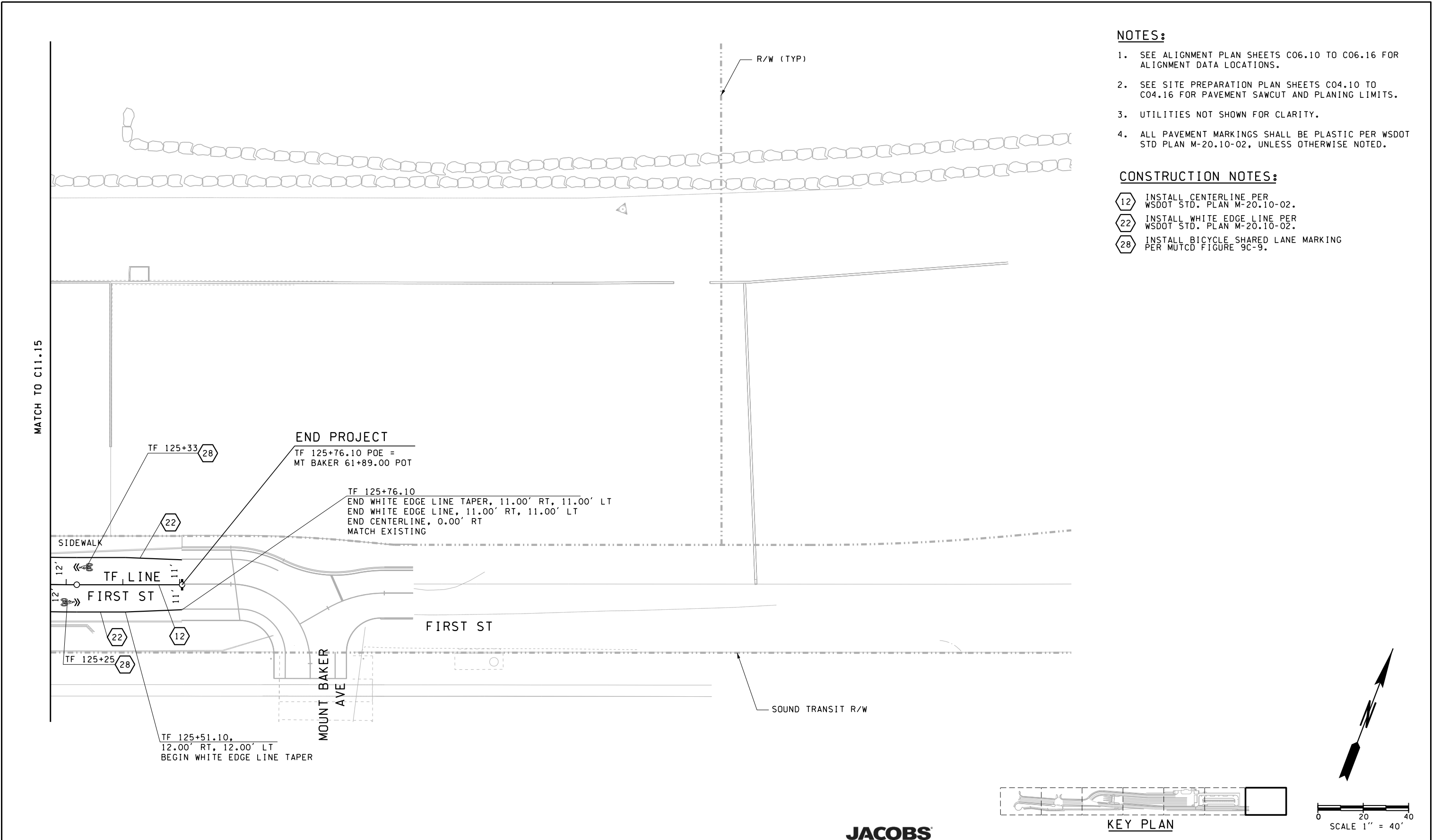


NOTES:

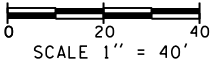
- 1. SEE ALIGNMENT PLAN SHEETS C06.10 TO C06.16 FOR ALIGNMENT DATA LOCATIONS.
- 2. SEE SITE PREPARATION PLAN SHEETS C04.10 TO C04.16 FOR PAVEMENT SAWCUT AND PLANING LIMITS.
- 3. UTILITIES NOT SHOWN FOR CLARITY.
- 4. ALL PAVEMENT MARKINGS SHALL BE PLASTIC PER WSDOT STD PLAN M-20.10-02, UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

- 12 INSTALL CENTERLINE PER WSDOT STD. PLAN M-20.10-02.
- 22 INSTALL WHITE EDGE LINE PER WSDOT STD. PLAN M-20.10-02.
- 28 INSTALL BICYCLE SHARED LANE MARKING PER MUTCD FIGURE 9C-9.



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: P. CROWLEY		1/18/19					REGION NO. STATE		
ENTERED BY: K. THOMAS		1/18/19					10 WASH		
CHECKED BY: M. PANICK		1/18/19					JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19			CONTRACT NO.		
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY		009321		

Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PAVEMENT MARKING PLAN

C11.16

SHEET  
277  
OF  
1521  
SHEETS



## SIGN SPECIFICATIONS

GENERAL NOTES (GN):

- A) POST LENGTHS AND "W" VALUES SHOWN ARE APPROXIMATE. FINAL VALUES SHALL BE DETERMINED IN THE FIELD BY THE CONTRACTOR PRIOR TO FABRICATION AND INSTALLATION.
- B) FOR STRUCTURE AND MOUNTING DETAILS SEE STANDARD PLAN SERIES "G".
- C) FOR CODE REFERENCES AND WSDOT STANDARD DETAILS SEE WASHINGTON STATE SIGN FABRICATION MANUAL, M55-05 (AUGUST 2006).
- D) ALL 2.5" PERFORATED SQUARE STEEL TUBE (PSST) POSTS DESIGNATED SHALL BE 12 GAGE.
- E) 2.5" SQ (SB) OR 2.5" SQ (S) PSST POSTS SHALL HAVE A 12 GAGE 2 1/4" PSST INSERT OF THE SAME LENGTH.
- F) ALL WIDE FLANGE STEEL POSTS SHALL BE ASTM A 36.
- G) ALL ROUND STEEL POSTS ARE MEASURED TO OUTSIDE DIAMETER AND SHALL HAVE TYP AP SIGN SUPPORTS.
- H) ALL SIGNS 36" OR WIDER SHALL BE BRACED IN ACCORDANCE WITH STANDARD PLAN G-50.10.
- I) 5", 6", 7" AND 8" SQUARE STEEL TUBE SIGN POSTS SHALL HAVE TYPE TP-B BASES. ASTM A36 W6x12 FOUNDATION SPECIFICATIONS SHALL BE USED UNLESS OTHERWISE NOTED IN THE PLANS.
- J) CONTACT THE CITY OF MUKILTEO BEFORE ORDERING SIGNS TO BE SURE THE CORRECT VERBIAGE IS USED.
- K) 3" SOLID SQUARE STEEL TUBE POSTS SHALL BE 7 GAGE AND SHALL HAVE A 10" TRIANGULAR SLIP BASE UNLESS OTHERWISE NOTED. SEE STANDARD PLAN G-24.40, TYPE SB-1 AND SB-3 SLIP BASE ASSEMBLY.
- L) NOT USED.
- M) NOT USED.
- N) ALL OVERHEAD SIGN MOUNTING HARDWARE SHALL BE NEW UNLESS OTHERWISE SHOWN ON THE PLANS OR SIGN SPECIFICATION SHEETS.

PERFORATED SQUARE STEEL SIGN SUPPORTS			
POST SIZE (#)	CALL OUT IN THE POST SIZE COLUMN	SIGN SUPPORT TYPE	GENERAL NOTE
2 1/2"	2.5" SQ (1)	ST-1	D
2 1/2"	2.5" SQ (4)	ST-4	D
2 1/2"	2.5" SQ (SB)	SB-1, SB-2 OR SB-3	D, E
2 1/2"	2.5" SQ (5)	ST-4	D, E
3"	3" SQ (SB)	SEE NOTE K	K
3"	3" SQ (5)	ST-4	K
SEE WSDOT STANDARD PLANS G-24.40 AND G-24.50			

**JACOBS®**

**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES



01/18/19

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:				FED.AID PROJ.NO.	
SUBMITTAL DATE:		1/18/19		USERNAME#					
DESIGNED BY:		K. THOMAS		1/18/19				WA-2017-007-00	
ENTERED BY:		K. THOMAS		1/18/19				REGION NO. STATE	
CHECKED BY:		M. PANICK		1/18/19				10 WASH	
MAR PROJ ENGR:		C. TORRES						JOB NUMBER	
DIR TERM ENGR:		N. MCINTOSH				1/18/19		18W121	
ASST SECRETARY:		A. SCARTON				REVISION		CONTRACT NO.	
						DATE		BY 009321	

SR 525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

## SIGNING NOTES

C12.01

SHEET  
278  
OF  
1521  
SHEETS



SIGN REMOVAL SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	REMARKS
R-1	SPECIAL	FERRY CARPOOL	SR 525 1+34, 17' LT	TO BE REMOVED
R-2	SPECIAL	(TRANSIT SYMBOL)	SR 525 2+01, 16' LT	TO BE REMOVED
R-3	I5-7	(RAIL STATION SYMBOL)	SR 525 2+01, 16' LT	TO BE REMOVED
R-4	M6-1 (MOD)	(RIGHT ARROW)	SR 525 2+01, 16' LT	TO BE REMOVED
R-5	SPECIAL	MUKILTEO FERRY TERMINAL TO WHIDBEY ISLAND	SR 525 3+65, 23' LT	TO BE REMOVED
R-6	R1-1	STOP	SR 525 3+72, 19' LT	TO BE REMOVED
R-7	SPECIAL	WAIT FOR NEXT AVAILABLE BOOTH	SR 525 3+72, 19' LT	TO BE REMOVED
R-8	SPECIAL	WSF EMPLOYEE PARKING	TF LINE 100+06, 112' RT	TO BE REMOVED
R-9		ALL SIGNS ON TOLL BOOTH		TO BE REMOVED
R-10	R5-1	DO NOT ENTER	TF LINE 100+19, 5' LT	TO BE REMOVED
R-11	SPECIAL	AUTHORIZED PERSONNEL ONLY	TF LINE 100+19, 5' LT	TO BE REMOVED
R-12		ALL SIGNS ON TOLL BOOTH		TO BE REMOVED
R-13	SPECIAL	WSF EMPLOYEE PARKING	TF LINE 100+30, 127' RT	TO BE REMOVED
R-14		ALL SIGNS ON TOLL BOOTH		TO BE REMOVED
R-15	SPECIAL	WSF EMPLOYEE PARKING	TF LINE 100+47, 125' RT	TO BE REMOVED
R-16	SPECIAL	WSF EMPLOYEE PARKING	TF LINE 100+74, 123' RT	TO BE REMOVED
R-17	R7-801	RESERVED PARKING (DISABLED LOGO)	TF LINE 101+00, 120.00' RT	TO BE REMOVED
R-18	R7-801A	VAN ACCESSIBLE	TF LINE 101+00, 120.00' RT	TO BE REMOVED
R-19	SPECIAL	EMPLOYEE ACCESS AREA	TF LINE 101+14, 61' RT	TO BE REMOVED
R-20	SPECIAL	EMPLOYEE ACCESS AREA	TF LINE 101+19, 111' RT	TO BE REMOVED
R-21	SPECIAL	EMPLOYEE ACCESS AREA	TF LINE 101+40, 34' RT	TO BE REMOVED
R-22	R7-101	NO PARKING ANYTIME	TF LINE 101+49, 55' RT	TO BE REMOVED
R-23	R7-101	NO PARKING ANYTIME	TF LINE 101+48, 69' RT	TO BE REMOVED
R-24	SPECIAL	DO NOT FEED BIRDS	TF LINE 101+52, 135' LT	TO BE REMOVED
R-25	SPECIAL	NO-IDLE ZONE WAITING? PLEASE TURN OFF ENGINE	TF LINE 101+55, 140' LT	TO BE REMOVED
R-26	SPECIAL	(ASSAULTS ON WASHINGTON STATE EMPLOYEES SIGN)	TF LINE 101+55, 140' LT	TO BE REMOVED
R-27	SPECIAL	SUPERVISOR PARKING ONLY SIGN	TF LINE 101+66, 27' RT	TO BE REMOVED
R-28	SPECIAL	MARY'S TOWING	TF LINE 101+81, 28' RT	TO BE REMOVED
R-29	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM(ARROW L&R)	TF LINE 101+84, 32' RT	TO BE RELOCATED
R-30	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L&R)	TF LINE 101+84, 32' RT	TO BE RELOCATED
R-31	NOT USED			
R-32	SPECIAL	SUPERVISOR PARKING ONLY SIGN	TF LINE 101+94, 29' RT	TO BE REMOVED
R-33	R8-1 (MOD)	NO PARKING THIS SIDE SIGN	TF LINE 101+97, 91' RT	TO BE REMOVED
R-34	SPECIAL	MARY'S TOWING	TF LINE 102+09, 30' RT	TO BE REMOVED
R-35	R8-1 (MOD)	NO PARKING THIS SIDE	TF LINE 102+19, 92' RT	TO BE REMOVED
R-36	SPECIAL	WSP PARKING ONLY	TF LINE 102+20, 30' RT	TO BE REMOVED
R-37	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM(ARROW L&R)	TF LINE 102+22, 33' RT	TO BE RELOCATED
R-38	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L&R)	TF LINE 102+22, 33' RT	TO BE RELOCATED
R-39	NOT USED			
R-40	SPECIAL	WSP PARKING ONLY	TF LINE 102+43, 31' RT	TO BE REMOVED
R-41	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM(ARROW L&R)	TF LINE 102+48, 35' RT	TO BE RELOCATED
R-42	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L&R)	STF LINE 102+48, 35' RT	TO BE RELOCATED
R-43	NOT USED			
R-44	R8-1 (MOD)	NO PARKING THIS SIDE	TF LINE 102+50, 93' RT	TO BE REMOVED
R-45	SPECIAL	WSP PARKING ONLY	TF LINE 102+69, 32' RT	TO BE REMOVED
R-46	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM(ARROW L&R)	TF LINE 102+78, 36' RT	TO BE RELOCATED
R-47	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L&R)	TF LINE 102+78, 36' RT	TO BE RELOCATED
R-48	NOT USED			
R-49	R7-101	NO PARKING ANYTIME	TF LINE 102+86, 1' RT	TO BE REMOVED
R-50	R8-1 (MOD)	NO PARKING THIS SIDE	TF LINE 102+96, 96' RT	TO BE REMOVED
R-51	SPECIAL	PET WASTE STATION	TF LINE 102+97, 66' LT	TO BE REMOVED

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	REMARKS
R-52	SPECIAL	BOINGO WI-FI AVAILABLE	TF LINE 102+98, 118' LT	TO BE REMOVED
R-53	R8-1 (MOD)	NO PARKING THIS SIDE	TF LINE 103+24, 97' RT	TO BE REMOVED
R-54	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM(ARROW L&R)	TF LINE 103+48, 39' RT	TO BE RELOCATED
R-55	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L&R)	TF LINE 103+48, 39' RT	TO BE RELOCATED
R-56	NOT USED			
R-57	R8-1 (MOD)	NO PARKING THIS SIDE	TF LINE 103+56, 99' RT	TO BE REMOVED
R-58	R7-101	NO PARKING ANYTIME	TF LINE 103+84, 98' RT	TO BE REMOVED
R-59	R7-101	NO PARKING ANYTIME	TF LINE 104+10, 96' RT	TO BE REMOVED
R-60	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM (ARROW L)	TF LINE 104+36, 48' RT	TO BE RELOCATED
R-61	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L)	TF LINE 104+36, 48' RT	TO BE RELOCATED
R-62	NOT USED			
R-63	SPECIAL	PRIVATE PARKING RESERVED 24/7	TF LINE 104+38, 19' RT	TO BE REMOVED
R-64	SPECIAL	PRIVATE PARKING RESERVED 24/7	TF LINE 104+40, 7' LT	TO BE REMOVED
R-65	R7-101	NO PARKING ANYTIME	TF LINE 104+44, 94' RT	TO BE REMOVED
R-66	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM (ARROW R)	TF LINE 104+47, 9' LT	TO BE RELOCATED
R-67	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW R)	TF LINE 104+47, 9' LT	TO BE RELOCATED
R-68	NOT USED			
R-69	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 104+47, 44' RT	TO BE REMOVED

NOTES:  
1. REMOVE CONCRETE FOUNDATIONS WHERE APPLICABLE.

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SIGN REMOVAL SPECIFICATIONS

C12.02  
SHEET  
279  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\FILES\$									
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:					FED.AID PROJ.NO.
SUBMITTAL DATE:		1/18/19		#USERNAME#					
DESIGNED BY:		S. ARANA		1/18/19					WA-2017-007-00
ENTERED BY:		S. ARANA		1/18/19					REGION NO. STATE
CHECKED BY:		P. CROWLEY		1/18/19					10 WASH
MAR PROJ ENGR:		C. TORRES							JOB NUMBER
DIR TERM ENGR:		N. MCINTOSH							18W121
ASST SECRETARY:		A. SCARTON				CONFORMED PLANS		1/18/19	CONTRACT NO.
						REVISION		DATE	BY
									009321





SIGN REMOVAL SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	REMARKS
R-70	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 104+73, 74' RT	TO BE REMOVED
R-71	SPECIAL	MUKILTEO STATION	TF LINE 104+80, 79' RT	TO BE RELOCATED
R-72	R3-1	NO RIGHT TURN	TF LINE 104+81, 45' RT	TO BE REMOVED
R-73	R1-1	STOP	TF LINE 104+92, 14' RT	TO BE REMOVED
R-74	SPECIAL	(THE HISTORIC HEART OF MUKILTEO SIGN)	TF LINE 105+00, 15' RT	SALVAGED TO CITY
R-75	SPECIAL	(NO TRESPASSING U.S. GOVERNMENT PROPERTY)	TF LINE 105+03, 22' LT	TO BE REMOVED
R-76	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM(ARROW L&R)	TF LINE 105+06, 51' LT	TO BE RELOCATED
R-77	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L&R)	TF LINE 105+06, 51' LT	TO BE RELOCATED
R-78	R1-1	STOP	TF LINE 105+00, 190' LT	TO BE RELOCATED
R-79	R7-2 (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM(ARROW L&R)	TF LINE 105+10, 90' LT	TO BE RELOCATED
R-80	SPECIAL	PARKING SYMBOL PAY PARKING 8AM-8PM (ARROW L&R)	TF LINE 105+10, 90' LT	TO BE RELOCATED
R-81	NOT USED			
R-82	SPECIAL	(US GOVERNMENT IN MUKILTEO SIGN)	TF LINE 105+13, 75' RT	SALVAGED TO CITY
R-83	W3-1A	STOP AHEAD	TF LINE 106+67, 30' RT	TO BE REMOVED
R-84	R8-3	NO PARKING	TF LINE 109+72, 13' RT	TO BE REMOVED
R-85	R1-1	STOP	TF LINE 110+95, 156' RT	TO BE REMOVED
R-86	R5-1	DO NOT ENTER	TF LINE 111+65, 25' LT	TO BE REMOVED
R-87	SPECIAL	PASSENGER DROP-OFF AND PICK-UP AREA	TF LINE 111+84, 27' RT	TO BE REMOVED
R-88	R5-1	DO NOT ENTER	TF LINE 111+98, 17' LT	TO BE REMOVED
R-89	R4-7A	KEEP RIGHT (HORIZONTAL ARROW)	TF LINE 112+00, 1' LT	TO BE REMOVED
R-90	R6-2R	ONE WAY (RIGHT)	TF LINE 112+00, 1' LT	TO BE REMOVED
R-91	R8-1 (MOD)	NO PARKING BEYOND THIS POINT SIGN	TF LINE 112+11, 63' LT	TO BE REMOVED
R-92	SPECIAL	PASSENGER DROP-OFF AND PICK-UP AREA SIGN	TF LINE 112+18, 62' LT	TO BE REMOVED
R-93	R8-3	NO PARKING SIGN	TF LINE 112+19, 9' RT	TO BE REMOVED
R-94	R7-102 (MOD)	NO PARKING ANYTIME SIGN	TF LINE 112+38, 15' LT	TO BE REMOVED
R-95	SPECIAL	PASSENGER DROP-OFF AND PICK-UP AREA SIGN	TF LINE 112+67, 16' LT	TO BE REMOVED
R-96	SPECIAL	WELCOME TO MUKILTEO PUBLIC ACCESS DOCK	N 349793.32, E 1279883.42	TO BE REMOVED
R-97	SPECIAL	DANGER NO SWIMMING OR DIVING FROM THE PIER	N 349818.35, E 1279957.85	TO BE REMOVED
R-98	R2-1	SPEED LIMIT 15	N 349756.65, E 1279879.70	TO BE REMOVED
R-99	R2-1	SPEED LIMIT 15	N 349740.85, E 1279861.98	TO BE REMOVED
R-100	SPECIAL	NO TRESPASSING	N 349732.50, E 1279899.75	TO BE REMOVED
R-101	SPECIAL	(STOP LIGHT)	N 349720.34, E 1279911.61	TO BE REMOVED
R-102	SPECIAL	(STOP LIGHT)	N 349705.94, E 1279894.28	TO BE REMOVED
R-103	SPECIAL	ONE TRUCK AT A TIME	N 349705.94, E 1279894.28	TO BE REMOVED
R-104	SPECIAL	USE PARKING LIGHTS ONLY	N 349706.13, E 1279898.55	TO BE REMOVED
R-105	SPECIAL	(RESTRICTED AREA SIGN)	N 349639.79, E 1279945.92	TO BE REMOVED
R-106	SPECIAL	(DO NOT WALK ON BRIDGE DURING LOADING)	N 349639.79, E 1279945.92	TO BE REMOVED
R-107	SPECIAL	EMPLOYEE ACCESS AREA	N 349616.71, E 1279930.77	TO BE REMOVED
R-108	SPECIAL	ONE TRUCK AT A TIME	N 349629.08, E 1279981.18	TO BE REMOVED
R-109	SPECIAL	LIGHTS OUT PLEASE	N 349629.08, E 1279981.18	TO BE REMOVED
R-110	SPECIAL	(ASSAULTS ON WASHINGTON STATE EMPLOYEES SIGN)	N 349611.17, E 1279946.26	TO BE REMOVED
R-111	SPECIAL	MEMORIAL PLAQUE	N 349595.28, E 1279950.18	TO BE REMOVED
R-112	SPECIAL	RESTROOMS ARE FOR FERRY PATRONS ONLY	N 349592.33, E 1279946.29	TO BE REMOVED
R-113	SPECIAL	(MEN HANDICAP PLAQUE)	N 349592.33, E 1279946.29	TO BE REMOVED
R-114	SPECIAL	HANDICAP NEED ASSISTANCE?	N 349587.82, E 1279951.81	TO BE REMOVED
R-115	SPECIAL	( HANDICAP WOMEN PLAQUE)	N 349587.82, E 1279951.81	TO BE REMOVED
R-116	SPECIAL	BOINGO WI-FI ON BOARD	N 349587.16, E 1279960.33	TO BE REMOVED
R-117	SPECIAL	RESTROOMS ARE FOR FERRY PATRONS ONLY	N 349581.22, E 1279949.02	TO BE REMOVED
R-118	SPECIAL	(WOMEN HANDICAP PLAQUE)	N 349581.22, E 1279949.02	TO BE REMOVED
R-119	SPECIAL	(FOOT PASSENGER AND BICYCLES PAY TOLL HERE)	N 349576.53, E 1279952.49	TO BE REMOVED
R-120	SPECIAL	(RETAIN SALES RECEIPT SIGN)	N 349576.53, E 1279952.49	TO BE REMOVED

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	REMARKS
R-121	SPECIAL	(NEED BOARDING ASSISTANCE SIGN)	N 349576.53, E 1279952.49	TO BE REMOVED
R-122	SPECIAL	(RESTRICTED AREA SIGN)	N 349571.21, E 1279944.32	TO BE REMOVED
R-123	SPECIAL	(TRANSIT SYMBOL)	N 349579.12, E 1279995.37	TO BE REMOVED
R-124	I5-7	(RAIL STATION SYMBOL)	N 349579.12, E 1279995.37	TO BE REMOVED
R-125	M6-1 (MOD)	(LEFT ARROW)	N 349579.12, E 1279995.37	TO BE REMOVED
R-126	SPECIAL	(WASHINGTON STATE FERRIES PROHIBITED ITEMS)	SR 525 0+02, 40' RT	TO BE REMOVED
R-127	SPECIAL	FERRY UNLOADING WHEN FLASHING	SR 525 0+03, 26' RT	TO BE REMOVED
R-128	SPECIAL	FERRY UNLOADING WHEN FLASHING	SR 525 0+03, 6' LT	TO BE REMOVED
R-129	SPECIAL	THANK YOU FOR NOT SMOKING	SR 525 0+07, 31' RT	TO BE REMOVED
R-130	SPECIAL	WATCH YOUR STEP	SR 525 0+07, 31' RT	TO BE REMOVED
R-131	SPECIAL	SECURITY NOTICE	SR 525 0+07, 39' RT	TO BE REMOVED
R-132	SPECIAL	TRAFFIC FROM RIGHT MAY NOT STOP	SR 525 0+18, 26' LT	TO BE REMOVED
R-133	NOT USED			
R-134	SPECIAL	TRAFFIC FROM LEFT MAY NOT STOP	SR 525 0+81, 57' RT	TO BE REMOVED
R-135	SPECIAL	ONCOMING TRAFFIC MAY NOT STOP	SR 525 1+00, 15' LT	TO BE REMOVED
R-136	SPECIAL	(LATERAL CLEARANCE MARKER LEFT)	TF LINE 101+57, 210' LT	TO BE REMOVED
R-137	SPECIAL	(VEHICLES OVER 7'1" LOADING SIGN)	TF LINE 101+57, 210' LT	TO BE REMOVED
R-138	SPECIAL	STOP HERE DURING FERRY LOADING	TF LINE 104+39, 234' LT	TO BE REMOVED

NOTES:

1. REMOVE CONCRETE FOUNDATIONS WHERE APPLICABLE.

FILE NAME: WS\Fukilteo\14W121\_FerryTermConst\CADD\JACOBS\ \$FILES\$

PRINTED: \$\$TIME\$\$      \$\$DATE\$\$

SUBMITTAL DATE: 1/18/19

DESIGNED BY: K. THOMAS

ENTERED BY: C. CONRAD

CHECKED BY: J. SCHENKMAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

#USERNAME#

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

REVISION

DATE

BY

FED.AID PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER 18W121

CONTRACT NO. 009321

JACOBS

Washington State

Department of Transportation

WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

SIGN REMOVAL SPECIFICATIONS

C12.03

SHEET 280 OF 1521 SHEETS

JEFFREY L. SCHENKMAN

STATE OF WASHINGTON

REGISTERED PROFESSIONAL ENGINEER

56036

01/18/19



SIGN INSTALLATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH				CLEARANCE		REMARKS
				X	Y					H1	H2	H3	H4	V	W	
1	SPECIAL	NO LEFT TURN TO FERRY LANE	SR 525 LINE 2+15 RT	24"	30"	III or IV	4C/ 3C	SIGNAL POLE	N/A							MOUNT ON TRAFFIC SIGNAL POLE.
2	R3-6 (MOD)	(STRAIGHT/ RIGHT ARROW)	SR 525 LINE 2+10 RT	36"	36"	III or IV	4B	MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
		REGISTERED VANPOOL ONLY														
3	R3-5R (MOD)	FERRY LANE	SR 525 LINE 2+10 LT	30"	36"	III or IV	4D	MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
		(RIGHT ARROW) ONLY														
4	D3-401	SR 525 SYMBOL (RIGHT ARROW)	SR 525 LINE 2+10 LT	42"	18"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM. SEE GENERAL NOTE J.
5	R10-11A	NO TURN ON RED	SR 525 LINE 2+10 LT	24"	30"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
6	D3-401	(LEFT ARROW) SR 525 SYMBOL	SR 525 LINE 2+33 RT	42"	18"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM. SEE GENERAL NOTE J.
7	R3-802	(LEFT ARROW) ONLY	SR 525 LINE 2+33 RT	36"	30"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
		(LEFT RIGHT ARROWS)														
8	D3-401	(LEFT ARROW) SR 525 SYMBOL	SR 525 LINE 3+27 RT	42"	18"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM. SEE GENERAL NOTE J.
9	R3-2	(NO LEFT TURN SYMBOL)	SR 525 LINE 3+27 RT	24"	24"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
10	R10-11	NO TURN ON RED BALL	SR 525 LINE 3+18 LT	24"	30"	III or IV		LUM POLE	N/A					7.5'		MOUNT ON LUMINAIRE POLE.
11	SPECIAL	RED LIGHT EXT. DURING PEAK PERIODS	SR 525 LINE 3+18 LT	24"	30"	III or IV	3C							5'		MOUNT BELOW SIGN NO. 10
12	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	SR 525 LINE 3+35 RT	18"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	10'	
13	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	SR 525 LINE 3+35 LT	18"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	10.5'	
14	SPECIAL	TRANSIT CENTER SYMBOL	SR 525 LINE 3+67 LT	108"	84"	II	8 EM	ASTM A36	W6X16	18'	18'			7'	6'	
		RAIL STATION SYMBOL														
		MUKILTEO FERRY														
		(RIGHT ARROW)														
15	SPECIAL	FERRY TRAFFIC MUST	TF LINE 101+27 RT	48"	30"	III or IV	4C/ 5C	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
		USE RIGHT LANE														
16	R3-802	(LEFT ARROW) ONLY	TF LINE 101+50 LT	36"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	10.5'	
		(LEFT RIGHT ARROWS)														
17	D1-701	SR 525 SYMBOL	TF LINE 102+05 LT	24"	30"	II		LUM POLE	N/A					7'		SEE GENERAL NOTE J. MOUNT ON LUMINAIRE POLE.
		(LEFT ARROW)														
18	SPECIAL	NO-IDLE ZONE	TF LINE 102+27 RT	24"	36"	III or IV	3B/ 4C/ 2D	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
19	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM	COM LINE 23+26 RT	-	-	-		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE. RELOCATE R-41.
		(LEFT AND RIGHT ARROWS)														
20	SPECIAL	PARKING SYMBOL PAY PARKING 8AM - 8PM	COM LINE 23+26 RT	-	-	-								5.5'		MOUNT BELOW SIGN NO. 19. RELOCATE R-42.
		(LEFT AND RIGHT ARROWS)														
21	R7-1	NO PARKING ANY TIME	COM LINE 23+47 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
		(LEFT ARROW)														
22	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM	COM LINE 23+99 LT	-	-	-		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE. RELOCATE R-37.
		(LEFT AND RIGHT ARROWS)														
23	SPECIAL	PARKING SYMBOL PAY PARKING 8AM - 8PM	COM LINE 23+99 LT	-	-	-								5.5'		MOUNT BELOW SIGN NO. 21. RELOCATE R-38.
		(LEFT AND RIGHT ARROWS)														
24	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM	COM LINE 24+24 RT	-	-	-		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE. RELOCATE R-29.
		(LEFT AND RIGHT ARROWS)														
25	SPECIAL	PARKING SYMBOL PAY PARKING 8AM - 8PM	COM LINE 24+24 RT	-	-	-								5.5'		MOUNT BELOW SIGN NO. 24. RELOCATE R-30.
		(LEFT AND RIGHT ARROWS)														
26	R7-1	NO PARKING ANY TIME	COM LINE 24+25 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
		(RIGHT ARROW)														
27	R7-1	NO PARKING ANY TIME	COM LINE 24+37 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
		(LEFT ARROW)														
28	R7-101	NO PARKING ANYTIME	TF LINE 100+25 RT	12"	18"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
29	R2-1	SPEED LIMIT 25	TF LINE 102+82 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3'	
30	SPECIAL	SOUND TRANSIT SYMBOL	TF LINE 103+27 RT	24"	30"	II		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
		(RIGHT ARROW)														
31	R10-7	DO NOT BLOCK INTERSECTION	TF LINE 103+87 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	12'				10'	3'	
32	SPECIAL	FERRY TRAFFIC YIELD TO RIGHT TURNS	TF LINE 103+87 RT	48"	60"	III or IV	3D							5'	3'	MOUNT BELOW SIGN NO. 31.

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN INSTALLATION SPECIFICATIONS

C12.04

SHEET  
281  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID		
SUBMITTAL DATE: 1/18/19		#USERNAME#					PROJ.NO.		
DESIGNED BY: S. ARANA		1/18/19					WA-2017-007-00		
ENTERED BY: C. CONRAD		1/18/19					REGION NO.	STATE	
CHECKED BY: J. SCHENKMAN		1/18/19					10	WASH	
MAR PROJ ENGR: C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19			18W121		
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY		CONTRACT NO.		
							009321		





SIGN INSTALLATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH				CLEARANCE		REMARKS
				X	Y					H1	H2	H3	H4	V	W	
33	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 104+32 RT	18"	18"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
34	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 104+34 LT	18"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	11'	
35	D3-301	PARK AVE	TF LINE 104+54 LT	48"	12"	III or IV	6D	WSDOT TYPE ST-4	2.5"	12'				10.5'	4'	
36	R1-1	STOP	TF LINE 104+54 LT	30"	30"	III or IV								8'	4'	MOUNT BELOW SIGN NO. 35.
37	R3-5R	RIGHT ONLY ARROW	TF LINE 104+54 LT	30"	36"	III or IV								5'	4'	MOUNT BELOW SIGN NO. 36.
38	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 105+14 RT	18"	18"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
39	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 105+14 LT	18"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	11'	
40	SPECIAL	FERRY TRAFFIC MUST	TF LINE 105+86 RT	48"	30"	III or IV	4C/ 5C	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
		USE RIGHT LANE														
41	SPECIAL	SOUND TRANSIT SYMBOL	TF LINE 106+05 LT	24"	30"	II		WSDOT TYPE ST-4	2.5"	10'				7'	10'	
		(LEFT ARROW)														
42	R2-1	SPEED LIMIT 25	TF LINE 106+39 LT	24"	30"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
43	SPECIAL	NO-IDLE ZONE	TF LINE 106+96 RT	24"	36"	III or IV	3B/ 4C/ 2D	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
44	R1-1	STOP	COM LINE 20+27 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7.5'	3.25'	
45	SPECIAL	NO RIGHT TURN TO FERRY LANE	COM LINE 20+27 LT	24"	30"	III or IV	4C/ 3C							5'	3.25'	MOUNT BELOW SIGN NO. 44.
46	SPECIAL	MUKILTEO STATION	COM LINE 20+50 LT	-	-	-		EXISTING	N/A							RELOCATE EXISTING SIGN NO. R-71. COORDINATE WITH ST.
47	R1-1	STOP	COM LINE 21+07 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
48	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM	COM LINE 21+29 RT	-	-	-		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE. RELOCATE R-60.
		(LEFT ARROW)														
49	SPECIAL	PARKING SYMBOL PAY PARKING 8AM - 8PM	COM LINE 21+29 RT	-	-	-								5.5'		MOUNT BELOW SIGN NO. 48. RELOCATE R-61.
		(LEFT ARROW)														
50	R7-2A (MOD)	NO PARKING SYMBOL 2:30 AM TO 4:30 AM	COM LINE 22+27 RT	-	-	-		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE. RELOCATE R-46.
		(LEFT AND RIGHT ARROWS)														
51	SPECIAL	PARKING SYMBOL PAY PARKING 8AM - 8PM	COM LINE 22+27 RT	-	-	-								5.5'		MOUNT BELOW SIGN NO. 50. RELOCATE R-47.
		(LEFT AND RIGHT ARROWS)														
52	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 107+59 LT	18"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	10'	
53	R10-7	DO NOT BLOCK INTERSECTION	TF LINE 107+65 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	12'				9.5'	3.5'	
54	R3-8 (MOD)	DIRECTIONAL SIGN	TF LINE 107+65 RT	36"	36"	III or IV								7'	3.5'	MOUNT BELOW SIGN NO. 53.
55	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 107+65 RT	18"	18"	III or IV								5.5'	3.5'	MOUNT BELOW SIGN NO. 54.
56	R3-1	NO RIGHT TURN SYMBOL	TF LINE 108+30 RT	24"	24"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
57	R3-4	NO U-TURN SYMBOL	TF LINE 108+30 RT	24"	24"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
58	R3-6 (MOD)	(LEFT/ STRAIGHT ARROW)	TF LINE 108+30 RT	36"	36"	III or IV	4B	MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
		REGISTERED VANPOOL ONLY														
59	R3-5L (MOD)	FERRY LANE	TF LINE 108+30 RT	30"	36"	III or IV	4D	MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
		(LEFT ARROW) ONLY														
60	SPECIAL	RED LIGHT EXT. DURING PEAK PERIODS	TF LINE 108+30 RT	24"	30"	III or IV	3C	SIGNAL POLE	N/A							MOUNT ON TRAFFIC SIGNAL POLE.
61	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 108+80 RT	18"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	7'	
62	R9-3A	NO PEDESTRIAN CROSSING SYMBOL	TF LINE 108+74 LT	18"	18"	III or IV		SIGNAL POLE	N/A					7'		MOUNT ON TRAFFIC SIGNAL POLE.
63	R3-1	NO RIGHT TURN SYMBOL	TF LINE 109+44 LT	24"	24"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	8'	
64	R3-2	NO LEFT TURN SYMBOL	E LINE 10+31 LT	24"	24"	III or IV		MAST ARM	N/A							MOUNT ON TRAFFIC SIGNAL POLE MAST-ARM.
65	R4-7	KEEP RIGHT SYMBOL	E LINE 10+51 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	4.5'	
66	R5-1	DO NOT ENTER	E LINE 10+60 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	8.25'	
67	R1-1	STOP	TF LINE 105+00 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	RELOCATE R-78
68	SPECIAL	PROHIBITED ITEMS	E LINE 13+26 RT	60"	48"	III or IV	3C/ 2C/ 1C	TOLL BOOTH	N/A							MOUNT ON TOLL BOOTH ROOF.
69	SPECIAL	FARES	E LINE 13+26 RT	48"	60"	III or IV	3D/ 1EM/ 2EM	TOLL BOOTH	N/A							MOUNT ON TOLL BOOTH ROOF.
70	SPECIAL	PROHIBITED ITEMS	E LINE 13+26 RT	60"	48"	III or IV	3C/ 2C/ 1C	TOLL BOOTH	N/A							MOUNT ON TOLL BOOTH ROOF.
71	SPECIAL	FARES	E LINE 13+26 RT	48"	60"	III or IV	3D/ 1EM/ 2EM	TOLL BOOTH	N/A							MOUNT ON TOLL BOOTH ROOF.
72	W4-1R	MERGING FROM RIGHT	TF LINE 109+30 RT	36"	36"	III or IV		LUM POLE	N/A					7'		MOUNT ON POLE. SIGN FOR SOUND TRANSIT PARKING TRAFFIC.
73	R7-401	NO STOPPING OR STANDING	TF LINE 111+78 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	4.3'	
		(LEFT ARROW)														
74	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 112+00 RT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
74A	W16-9P	AHEAD	TF LINE 112+00 RT	24"	10"	III or IV								6'	3.25'	MOUNT BELOW SIGN NO. 74.

JACOBS

FILE NAME: WS\Fukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: S. ARANA		1/18/19					REGION NO. STATE		
ENTERED BY: C. CONRAD		1/18/19					10 WASH		
CHECKED BY: J. SCHENKMAN		1/18/19					JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19			CONTRACT NO.		
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY		009321		





**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN INSTALLATION SPECIFICATIONS

C12.05

SHEET  
282  
OF  
1521  
SHEETS



SIGN INSTALLATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH				CLEARANCE		REMARKS
				X	Y					H1	H2	H3	H4	V	W	
75	R1-5L	YIELD HERE TO PEDESTRIANS (LEFT)	TF LINE 112+78 RT	18"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3'	
76	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 112+99 RT	30"	30"	III or IV		SIGNAL POLE	N/A	14'				8.75'	7.5'	INSTALL RRFB SOLAR PANEL. SEE DETAIL SHEET C12.56
77	W16-7PL	DIAGONAL DOWNWARD ARROW (LEFT)	TF LINE 112+99 RT	24"	12"	III or IV								7'	7.5'	MOUNT BELOW SIGN NO. 76.
78	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 113+08 LT	30"	30"	III or IV		SIGNAL POLE	N/A	14'				8.75'	8.5'	INSTALL RRFB SOLAR PANEL. SEE DETAIL SHEET C12.56
79	W16-7PL	DIAGONAL DOWNWARD ARROW (LEFT)	TF LINE 113+08 LT	24"	12"	III or IV								7'	8.5'	MOUNT BELOW SIGN NO. 77.
80	R1-5L	YIELD HERE TO PEDESTRIANS (LEFT)	TF LINE 113+42 LT	18"	18"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
81	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 114+32 LT	30"	30"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
81A	W16-9P	AHEAD	TF LINE 114+32 LT	24"	10"	III or IV								6'		MOUNT BELOW SIGN NO. 81.
82	R2-1	SPEED LIMIT 15	E LINE 15+00 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	8'	
82A	R2-1	SPEED LIMIT 15	E LINE 15+09 RT	24"	30"	III or IV		COM POLE	N/A					7'		MOUNT ON POLE. ANGLE SIGN TOWARDS FERRY HOLDING LANES.
83	SPECIAL	NO-IDLE ZONE	E LINE 15+19 RT	24"	36"	III or IV	3B/ 4C/ 2D	WSDOT TYPE ST-4	2.5"	10'				7'	7.5'	
84	SPECIAL	NO-IDLE ZONE	E LINE 16+34 RT	24"	36"	III or IV	3B/ 4C/ 2D	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
85	R2-1	SPEED LIMIT 15	E LINE 17+50 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	8'	
86	R2-1	SPEED LIMIT 15	E LINE 17+81 RT	24"	30"	III or IV		COM POLE	N/A					7'		MOUNT ON POLE. ANGLE SIGN TOWARDS FERRY HOLDING LANES.
87	R2-1	SPEED LIMIT 20	E LINE 17+96 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	5'	
88	R2-1	SPEED LIMIT 20	E LINE 17+96 LT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	8'	
89	SPECIAL	NO-IDLE ZONE	E LINE 18+12 RT	24"	36"	III or IV	3B/ 4C/ 2D	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
90	R2-1	SPEED LIMIT 25	TF LINE 118+80 LT	24"	30"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
91	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 119+25 RT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
91A	W16-9P	AHEAD	TF LINE 119+25 RT	24"	10"	III or IV								6'	3.25'	MOUNT BELOW SIGN NO. 91.
91B	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 119+85 RT	30"	30"	III or IV		SIGNAL POLE	N/A	14'				8.75'	8.5'	INSTALL RRFB PANEL. SEE DETAIL SHEET C12.56.
91C	W16-7PL	DIAGONAL DOWNWARD ARROW (LEFT)	TF LINE 119+85 RT	24"	12"	III or IV								7'	8.5'	MOUNT BELOW SIGN NO. 91B.
92	R3-2	NO LEFT TURNS	TF LINE 120+07 RT	36"	36"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
93	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 119+95 LT	30"	30"	III or IV		SIGNAL POLE	N/A	14'				8.75'	8.5'	INSTALL RRFB PANEL. SEE DETAIL SHEET C12.56.
93A	W16-7PL	DIAGONAL DOWNWARD ARROW (LEFT)	TF LINE 119+95 LT	24"	12"	III or IV								7'	8.5'	MOUNT BELOW SIGN NO. 93.
94	I7-601	LIGHTS ?	E LINE 18+96 LT	30"	24"	II		WSDOT TYPE ST-4	2.5"	10'				7'	8'	
95	I7-601	LIGHTS ?	E LINE 18+96 RT	30"	24"	II		WSDOT TYPE ST-4	2.5"	10'				7'	5'	
96	SPECIAL	NO-IDLE ZONE	E LINE 19+87 RT	24"	36"	III or IV	3B/ 4C/ 2D	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
97	R4-7	KEEP RIGHT SYMBOL	E LINE 19+96 RT	24"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	5'	
98	E5-1	EXIT	E LINE 21+35 RT	48"	48"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
		(RIGHT ARROW)														
99	SPECIAL	LIGHTS OUT PLEASE	E LINE 21+84 LT	24"	24"	III or IV	4C	WSDOT TYPE ST-4	2.5"	10'				7'	4'	
100	SPECIAL	EMPLOYEE ACCESS ONLY	E LINE 21+98 LT	30"	24"	III or IV	4C/ 4D	WSDOT TYPE ST-4	2.5"	10'				8.5'	4'	
100A	SPECIAL	RESTRICTED AREA	E LINE 21+98 LT	48"	42"	III or IV	4D/ 3B/ 2B							5'	4'	MOUNT BELOW SIGN NO. 100.
101	SPECIAL	LIGHTS OUT PLEASE	E LINE 21+98 LT	24"	24"	III or IV	4C	VTS	N/A					7'		MOUNT ON VEHICLE TRANSFER SPAN.
102	SPECIAL	RESTRICTED AREA	E LINE 21+98 LT	48"	42"	III or IV	4D/ 3B	VTS	N/A							MOUNT ON VEHICLE TRANSFER SPAN.
103	W3-501 (MOD)	RETURN TO CAR WHEN FLASHING	E LINE 22+22 RT	36"	36"	III or IV		SIGNAL POLE	N/A	14'				7'	2.5'	INSTALL FLASHING BEACON.
104	SPECIAL	WAIT HERE WHILE INST. BY ATTEND.	E LINE 22+24 LT	36"	27"	III or IV	3C	WSDOT TYPE ST-4	2.5"	10'				7'	4'	
105	SPECIAL	LIGHTS OUT PLEASE	E LINE 22+26 LT	24"	24"	III or IV	4C	WSDOT TYPE ST-4	2.5"	10'				7'	7'	
106	SPECIAL	LIGHTS OUT PLEASE	E LINE 22+21 LT	24"	24"	III or IV	4C	VTS	N/A					7'		MOUNT ON VEHICLE TRANSFER SPAN.
107	SPECIAL	RESTRICTED AREA	E LINE 22+21 LT	48"	42"	III or IV	4D/ 3B	VTS	N/A							MOUNT ON VEHICLE TRANSFER SPAN.
108	R5-1	DO NOT ENTER	TC LINE 30+31 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
108A	R1-1	STOP	TC LINE 30+31 LT	30"	30"	III or IV								7'	3.25	MOUNT BEHIND SIGN NO. 108.
109	R5-1	DO NOT ENTER	TC LINE 30+31 RT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
110	R7-107A	NO PARKING BUS STOP SYMBOL	TC LINE 30+56 LT	12"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
111	R3-1	NO RIGHT TURN SYMBOL	TC-P LINE 40+15 LT	24"	24"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3'	
112	W11-2	ADVANCE PEDESTRIAN CROSSING	TC LINE 30+77 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
112A	W11-2	ADVANCE PEDESTRIAN CROSSING	TC LINE 30+77 RT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
113	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 120+78 LT	30"	30"	III or IV		LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
114	W16-9P	AHEAD	TF LINE 120+78 LT	24"	10"	III or IV			N/A					6'		MOUNT BELOW SIGN NO. 113.
115	D4-2 (MOD)	KISS & RIDE	TF LINE 121+19 RT	36"	24"	II	3D	WSDOT TYPE ST-4	2.5"	10'				7'	15.5'	
		(LEFT ARROW)														

JACOBS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: S. ARANA		1/18/19					REGION NO. STATE		
ENTERED BY: C. CONRAD		1/18/19					10 WASH		
CHECKED BY: J. SCHENKMAN		1/18/19					JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19			CONTRACT NO.		
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY		009321		





**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN INSTALLATION SPECIFICATIONS

C12.06

SHEET  
283  
OF  
1521  
SHEETS



SIGN INSTALLATION SPECIFICATIONS

SIGN NO.	SIGN CODE	SIGN DESCRIPTION	STA. LOC. (or MP)	SIGN SIZE		SHEETING TYPE	LETTER SIZE OR CODE	POST MATERIAL	POST SIZE	POST LENGTH				CLEARANCE		REMARKS
				X	Y					H1	H2	H3	H4	V	W	
116	R7-10801	15 MINUTE PARKING	TF LINE 121+19 RT	12"	18"	III or IV								6'	15.5'	MOUNT BELOW SIGN NO. 115.
117	R7-401	NO STOPPING OR STANDING	TF LINE 121+49 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	15'	
		(RIGHT AND LEFT ARROW)														
118	SPECIAL	EXCEPT TRANSIT	TF LINE 121+49 RT	12"	6"	III or IV	1E							6.5'	15'	MOUNT BELOW SIGN NO. 117.
119	SPECIAL	HANDICAP SYMBOL/ SHORT-TERM PARKING	TF LINE 121+78 LT	48"	30"	III or IV	3C	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
		U-TURN ROUTE														
		(LEFT ARROW)														
120	R7-10801	15 MINUTE PARKING	TF LINE 121+81 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	14.5'	
121	R7-102	NO PARKING ANYTIME	TF LINE 122+49 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	14.5'	
122	R7-107A	NO PARKING BUS STOP SYMBOL	TF LINE 123+09 RT	12"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	14.5'	
123	R7-401	NO STOPPING OR STANDING	TF LINE 123+49 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	14.5'	
		(RIGHT AND LEFT ARROW)														
124	SPECIAL	EXCEPT TRANSIT	TF LINE 123+49 RT	12"	6"	III or IV	1E							6.5'	14.5'	MOUNT BELOW SIGN NO. 123.
125	R7-107A	NO PARKING BUS STOP SYMBOL	TF LINE 123+73 RT	12"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	14'	
126	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 124+78 RT	30"	30"	III or IV		SIGNAL POLE		14'				8.75'	9'	INSTALL RRFB PANEL. SEE DETAIL SHEET C12.56
126A	W16-7PL	DIAGONAL DOWNWARD ARROW (LEFT)	TF LINE 124+78 RT	24"	12"	III or IV								7'	9'	MOUNT BELOW SIGN NO. 126.
127	W11-2	ADVANCE PEDESTRIAN CROSSING	TF LINE 124+94 LT	30"	30"	III or IV		SIGNAL POLE		14'				8.75'	3.25'	INSTALL RRFB PANEL. SEE DETAIL SHEET C12.56
127A	W16-7PL	DIAGONAL DOWNWARD ARROW (LEFT)	TF LINE 124+94 LT	24"	12"	III or IV								7'	3.25'	MOUNT BELOW SIGN NO. 127.
128	R7-101	NO PARKING ANYTIME	TC LINE 31+34 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
129	R7-101	NO PARKING ANYTIME	TC LINE 32+29 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
130	R7-101	NO PARKING ANYTIME	TC LINE 33+29 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
131	R7-101	NO PARKING ANYTIME	TC LINE 34+29 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
132	R5-1	DO NOT ENTER	TC LINE 35+70 RT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
133	SPECIAL	EXCEPT TRANSIT/ WSF	TC LINE 35+70 RT	12"	6"	III or IV	1E							5'	3.25'	MOUNT BELOW SIGN NO. 132.
134	R5-1	DO NOT ENTER	TC LINE 35+71 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
135	SPECIAL	EXCEPT TRANSIT/ WSF	TC LINE 35+71 LT	12"	6"	III or IV	1E							5'	3.25'	MOUNT BELOW SIGN NO. 134.
136	R7-10801	15 MINUTE PARKING	TC-P LINE 40+36 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
137	R7-801	RESERVED PARKING (DISABLED LOGO)	TC-P LINE 40+49 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7.5'	8'	
138	R7-801A	VAN ACCESSIBLE	TC-P LINE 40+49 LT	12"	6"	III or IV								7'	8'	MOUNT BELOW SIGN NO. 137.
139	R7-10801	30 MINUTE PARKING	TC-P LINE 40+49 LT	12"	18"	III or IV								5.5'	8'	MOUNT BELOW SIGN NO. 138.
140	R7-10801	15 MINUTE PARKING	TC-P LINE 40+65 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
141	R7-801	RESERVED PARKING (DISABLED LOGO)	TC-P LINE 40+66 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	8'	
142	R7-10801	15 MINUTE PARKING	TC-P LINE 40+66 LT	12"	18"	III or IV								5.5'	8'	MOUNT BELOW SIGN NO. 141.
143	R3-5L	(LEFT ARROW) ONLY	TC-P LINE 41+12 LT	30"	36"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
144	R5-1	DO NOT ENTER	TC-P LINE 41+24 LT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
145	R5-1	DO NOT ENTER	TC-P LINE 41+26 RT	30"	30"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	3.25'	
146	R7-801	RESERVED PARKING (DISABLED LOGO)	TC-P LINE 41+28 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7.5'	8'	
147	R7-801A	VAN ACCESSIBLE	TC-P LINE 41+28 LT	12"	6"	III or IV								7'	8'	MOUNT BELOW SIGN NO. 146.
148	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 41+28 LT	18"	24"	III or IV	3C/ 1C							5'	8'	MOUNT BELOW SIGN NO. 147.
149	R7-801	RESERVED PARKING (DISABLED LOGO)	TC-P LINE 41+44 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
150	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 41+44 LT	18"	24"	III or IV	3C/ 1C							5'	2.5'	MOUNT BELOW SIGN NO. 149.
151	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 41+68 LT	18"	24"	III or IV	3C/ 1C	WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
152	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 41+68 RT	18"	24"	III or IV	3C/ 1C	WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
153	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 42+26 LT	18"	24"	III or IV	3C/ 1C	WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
154	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 42+27 RT	18"	24"	III or IV	3C/ 1C	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
155	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 42+83 LT	18"	24"	III or IV	3C/ 1C	WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
156	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 42+83 RT	18"	24"	III or IV	3C/ 1C	WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
157	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 43+31 LT	18"	24"	III or IV	3C/ 1C	WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
158	I8-703 (MOD)	PKG. RES.\ WSF EMPLY.\ VIOL. TOWED	TC-P LINE 43+26 RT	18"	24"	III or IV	3C/ 1C	LUM POLE	N/A					7'		MOUNT ON LUMINAIRE POLE.
159	R7-301 (MOD)	NO PUBLIC PARKING	TC-P LINE 43+64 LT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	
160	R7-301 (MOD)	NO PUBLIC PARKING	TC-P LINE 43+64 RT	12"	18"	III or IV		WSDOT TYPE ST-4	2.5"	10'				7'	2.5'	

JACOBS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: S. ARANA		1/18/19					REGION NO. STATE		
ENTERED BY: C. CONRAD		1/18/19					10 WASH		
CHECKED BY: J. SCHENKMAN		1/18/19					JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19			CONTRACT NO.		
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY		009321		





**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

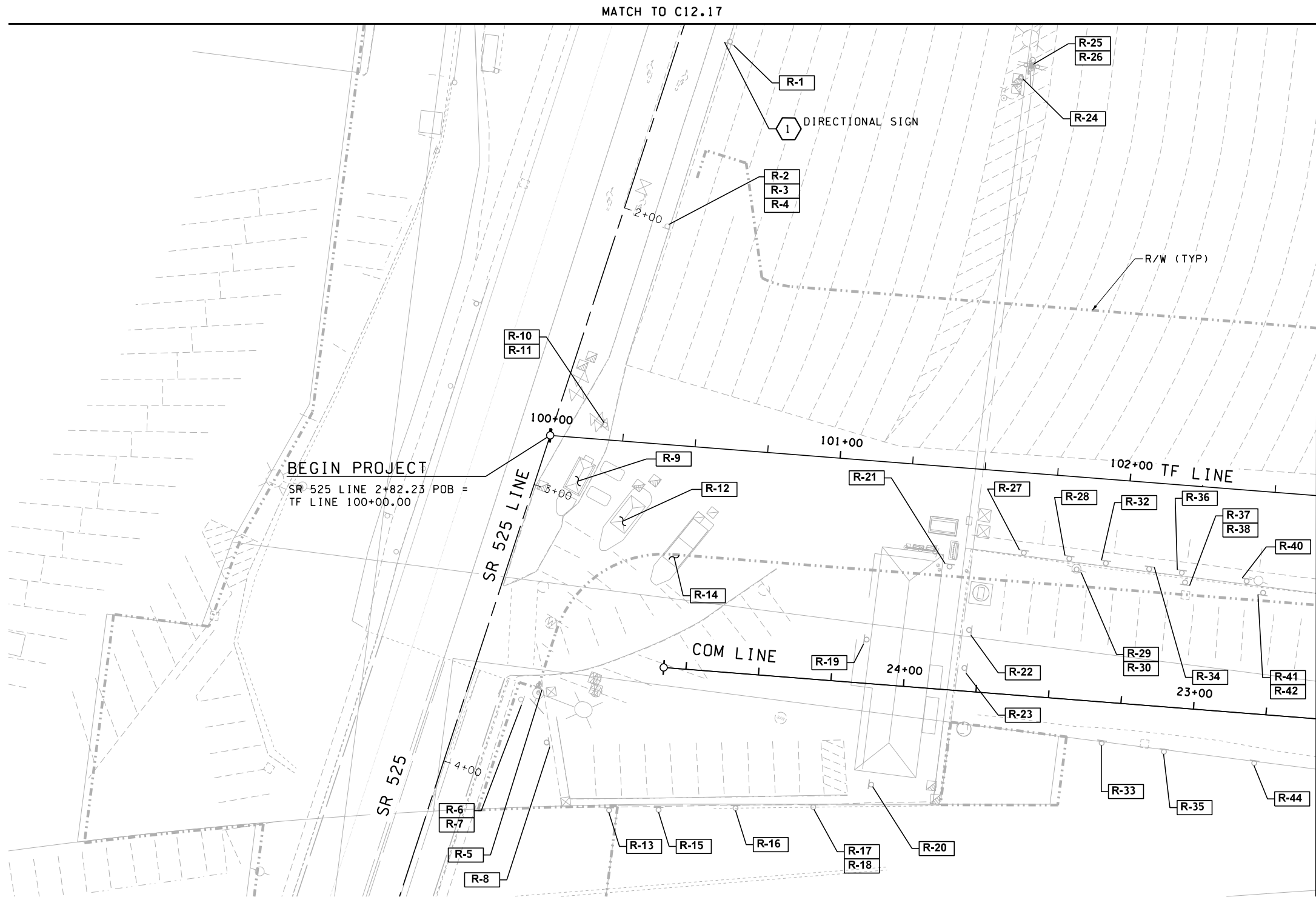
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN INSTALLATION SPECIFICATIONS

C12.07

SHEET  
284  
OF  
1521  
SHEETS





- NOTES:**
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA AND RIGHT-OF-WAY LOCATIONS C06.10 TO C06.16.
  2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.

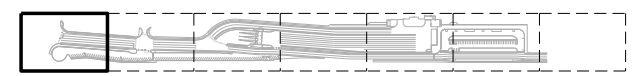
**CONSTRUCTION NOTES:**

1 EXISTING SIGN TO REMAIN.

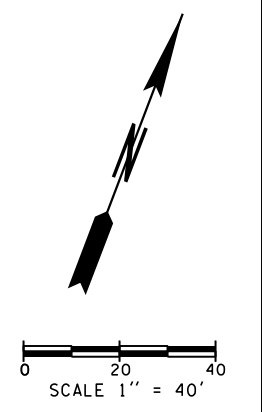
**LEGEND:**

R- EXISTING SIGN TO BE REMOVED

d EXISTING SIGN



KEY PLAN

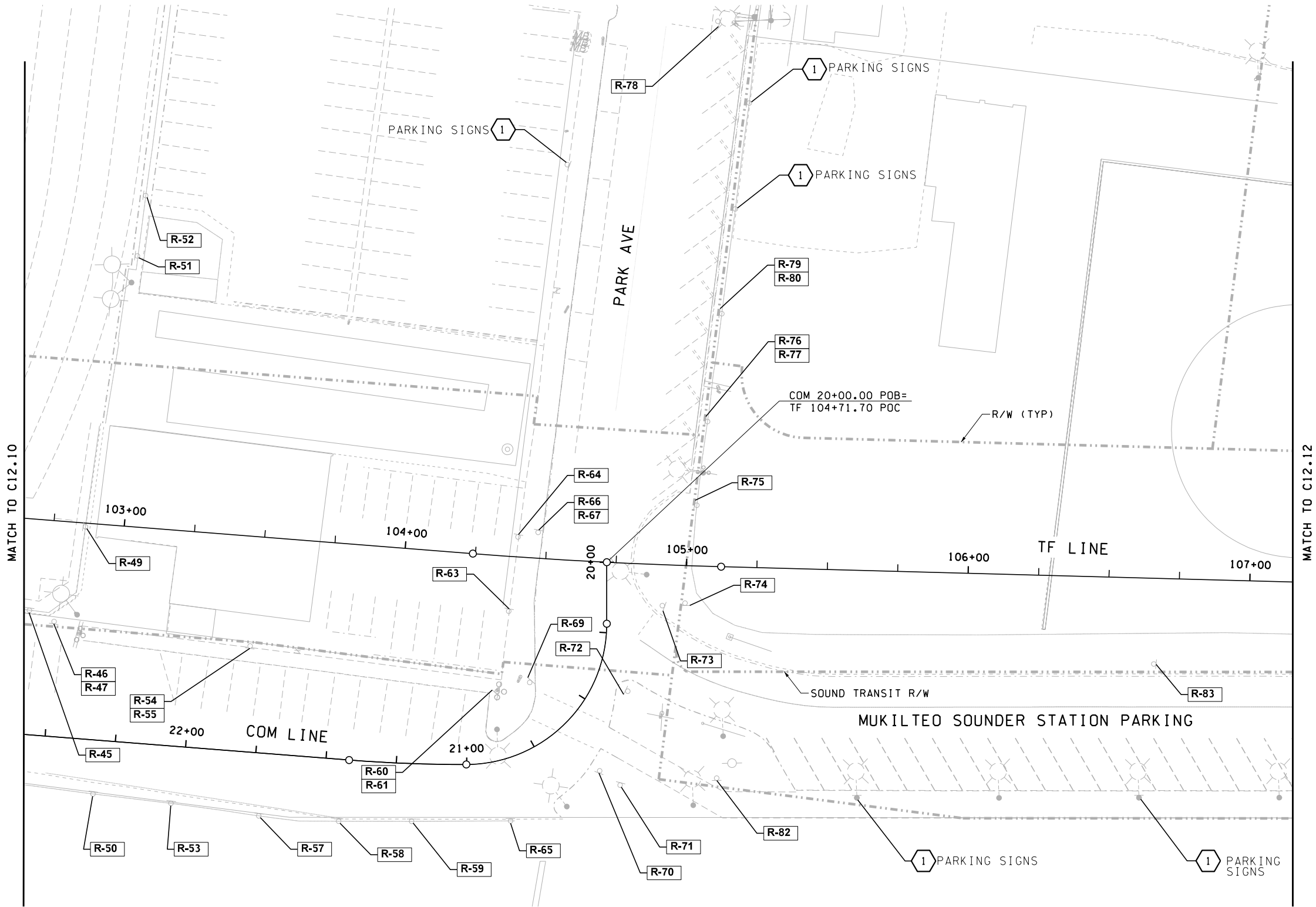


FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				JACOBS		SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		C12.10
PRINTED: \$\$TIME\$\$ \$\$DATE\$\$				FED.AID PROJ.NO.		SHEET		285
SUBMITTAL DATE: 1/18/19				WA-2017-007-00		OF		1521
DESIGNED BY: S. ARANA				REGION NO. STATE		SIGN REMOVAL PLAN		SHEETS
ENTERED BY: S. ARANA				10 WASH				
CHECKED BY: P. CROWLEY				JOB NUMBER				
MAR PROJ ENGR: C. TORRES				18W121				
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.				
ASST SECRETARY: A. SCARTON				009321				
CONFORMED PLANS				DATE				
REVISION				BY				

01/18/19

Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES





- NOTES:**
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA AND RIGHT-OF-WAY LOCATIONS C06.10 TO C06.16.
  2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.

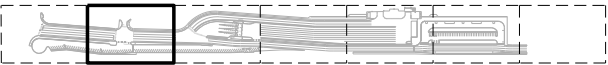
**CONSTRUCTION NOTES:**

1 EXISTING SIGN TO REMAIN.

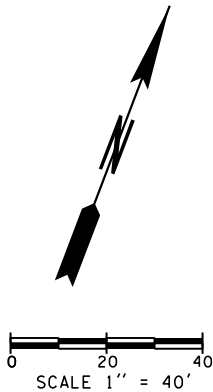
**LEGEND:**

R- EXISTING SIGN TO BE REMOVED

d EXISTING SIGN



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:						FED.AID PROJ.NO.	
SUBMITTAL DATE: 1/18/19		#USERNAME#						WA-2017-007-00	
DESIGNED BY: K. THOMAS	1/18/19							REGION NO. STATE	
ENTERED BY: K. THOMAS	1/18/19							10 WASH	
CHECKED BY: J. SCHENKMAN	1/18/19							JOB NUMBER	
MAR PROJ ENGR: C. TORRES								18W121	
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS		1/18/19				CONTRACT NO.	
ASST SECRETARY: A. SCARTON		REVISION		DATE	BY			009321	



01/18/19



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN REMOVAL PLAN

C12.11  
SHEET  
286  
OF  
1521  
SHEETS



NOTES:

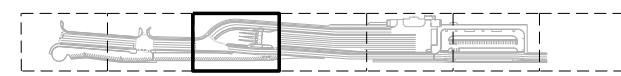
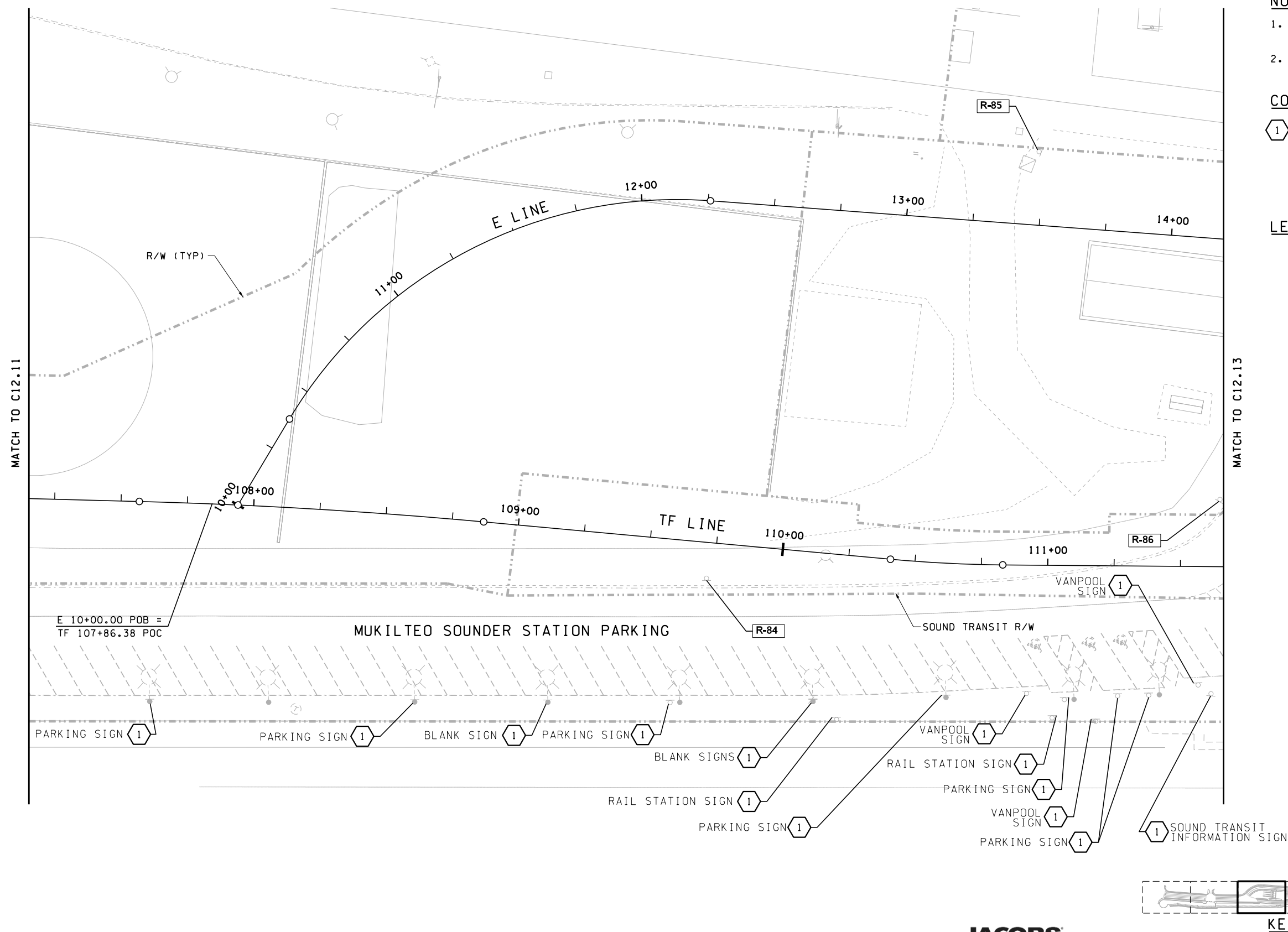
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA AND RIGHT-OF-WAY LOCATIONS C06.10 TO C06.16.
2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.

CONSTRUCTION NOTES:

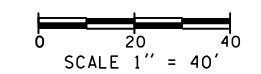
- 1 EXISTING SIGN TO REMAIN.



LEGEND:

- R- EXISTING SIGN TO BE REMOVED
- d EXISTING SIGN



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: K. THOMAS		1/18/19					REGION NO. STATE		
ENTERED BY: K. THOMAS		1/18/19					10 WASH		
CHECKED BY: M. PANICK		1/18/19					JOB NUMBER 18W121		
MAR PROJ ENGR: C. TORRES							CONTRACT NO. 009321	 Washington State Department of Transportation WASHINGTON STATE FERRIES	
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19					
ASST SECRETARY: A. SCARTON			REVISION		DATE	BY			
								SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	
								SIGN REMOVAL PLAN	
								C12.12 SHEET 287 OF 1521 SHEETS	







NOTES:

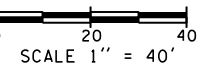
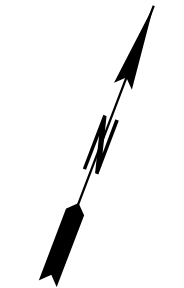
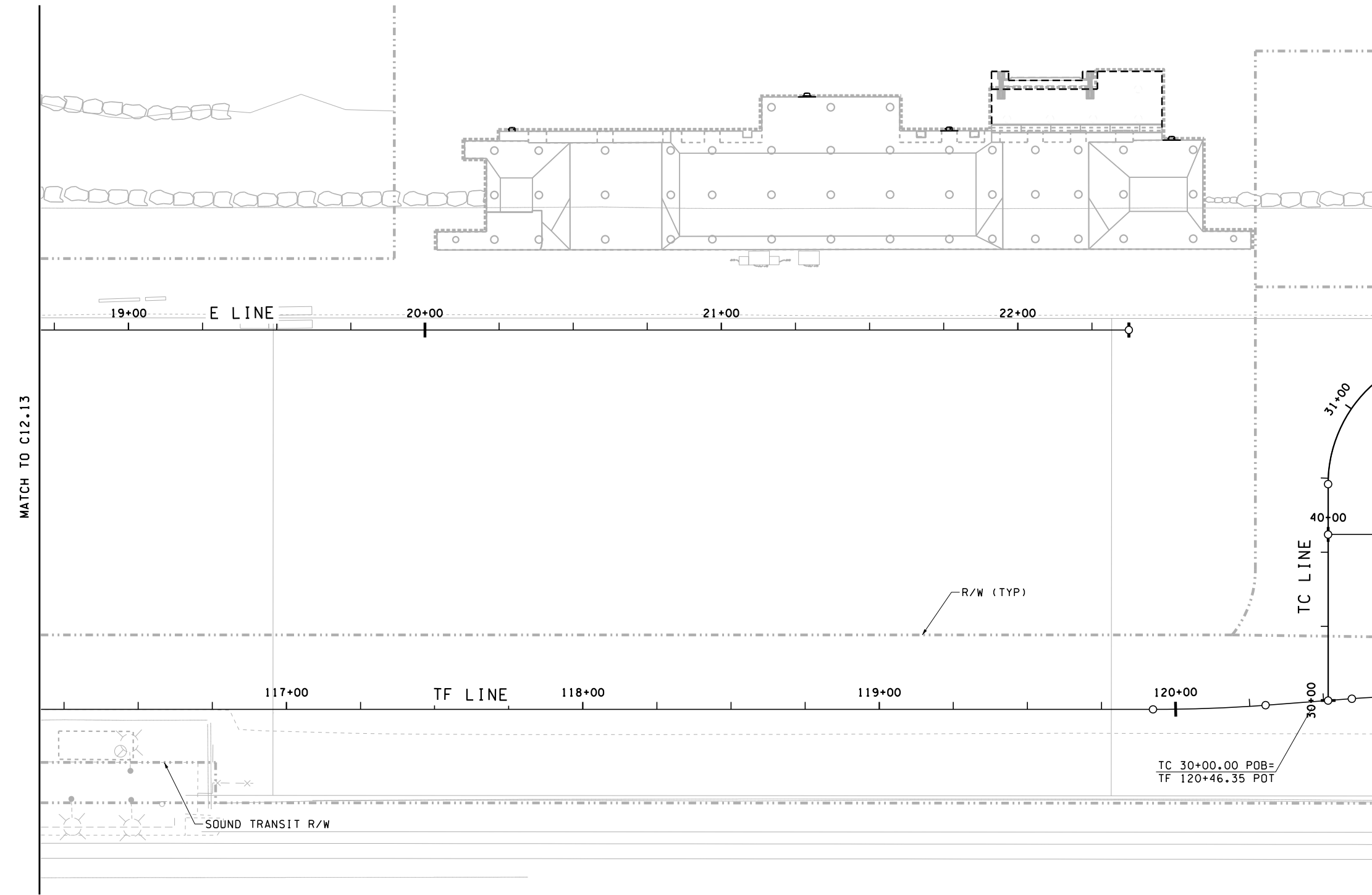
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA AND RIGHT-OF-WAY LOCATIONS C06.10 TO C06.16.
2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.

CONSTRUCTION NOTES:

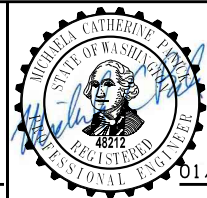
- 1 EXISTING SIGN TO REMAIN.

LEGEND:

- R- EXISTING SIGN TO BE REMOVED
- d EXISTING SIGN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID			
SUBMITTAL DATE: 1/18/19		#USERNAME#				PROJ.NO.			
DESIGNED BY: K. THOMAS	1/18/19					WA-2017-007-00			
ENTERED BY: K. THOMAS	1/18/19					REGION NO. STATE			
CHECKED BY: M. PANICK	1/18/19					10 WASH			
MAR PROJ ENGR: C. TORRES						JOB NUMBER			
DIR TERM ENGR: N. MCINTOSH						18W121			
ASST SECRETARY: A. SCARTON						CONTRACT NO.			
						009321			
		CONFORMED PLANS	1/18/19						
		REVISION	DATE	BY					



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN REMOVAL PLAN

C12.14

SHEET  
289  
OF  
1521  
SHEETS



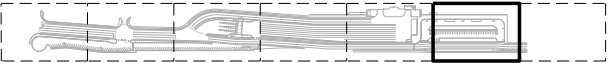
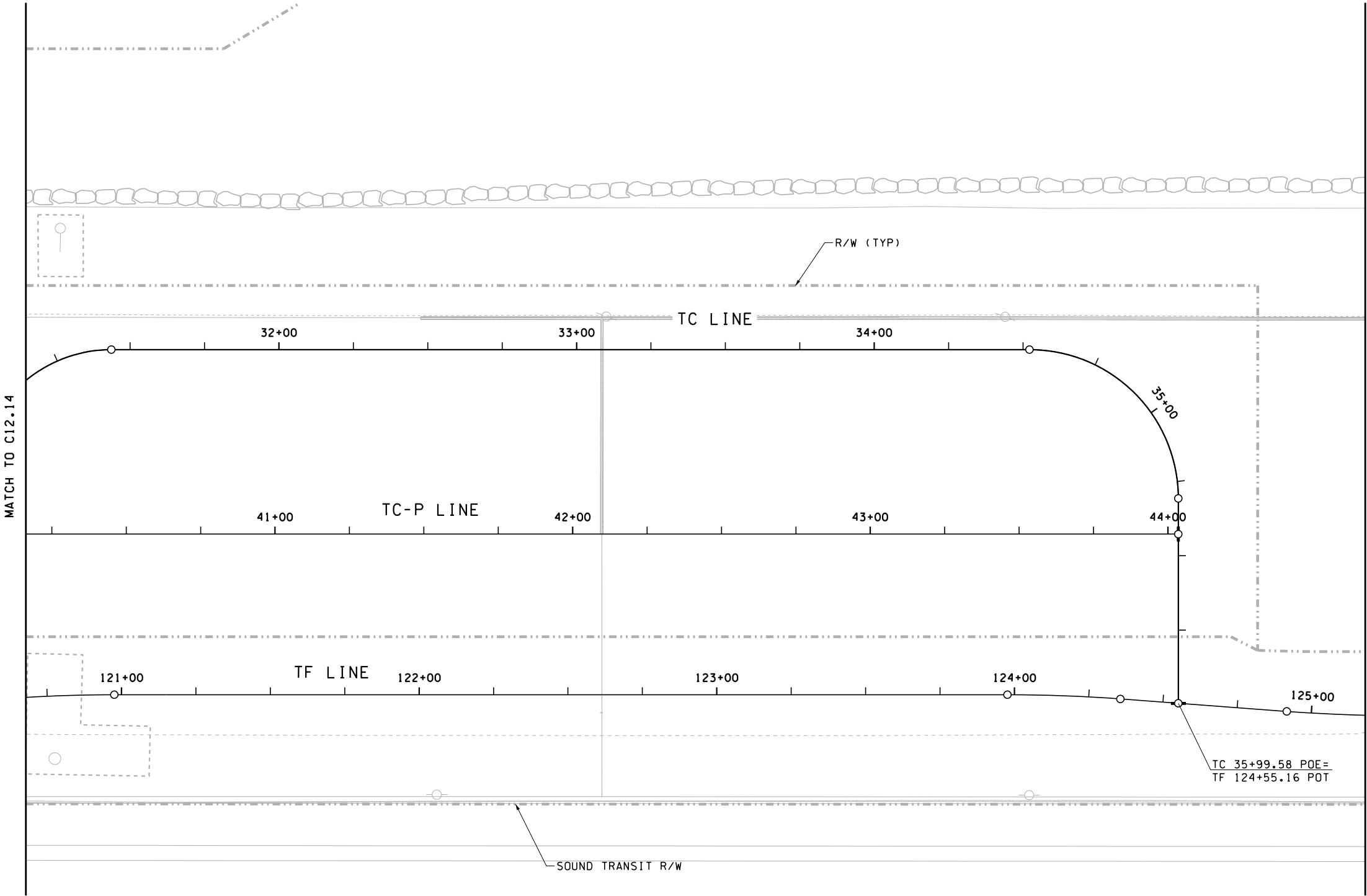
- NOTES:
- 1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA AND RIGHT-OF-WAY LOCATIONS C06.10 TO C06.16.
  - 2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.

CONSTRUCTION NOTES:

- 1 EXISTING SIGN TO REMAIN.

LEGEND:

- R- EXISTING SIGN TO BE REMOVED
- d EXISTING SIGN



KEY PLAN

0 20 40  
SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: K. THOMAS	1/18/19						REGION NO. STATE		
ENTERED BY: K. THOMAS	1/18/19						10 WASH		
CHECKED BY: M. PANICK	1/18/19						JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19				CONTRACT NO.		
ASST SECRETARY: A. SCARTON		REVISION		DATE	BY		009321		



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN REMOVAL PLAN

C12.15

SHEET  
290  
OF  
1521  
SHEETS





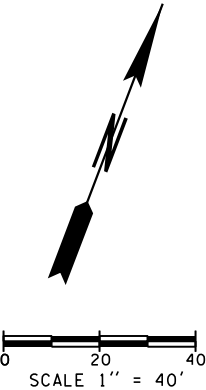
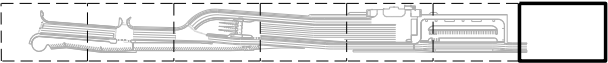
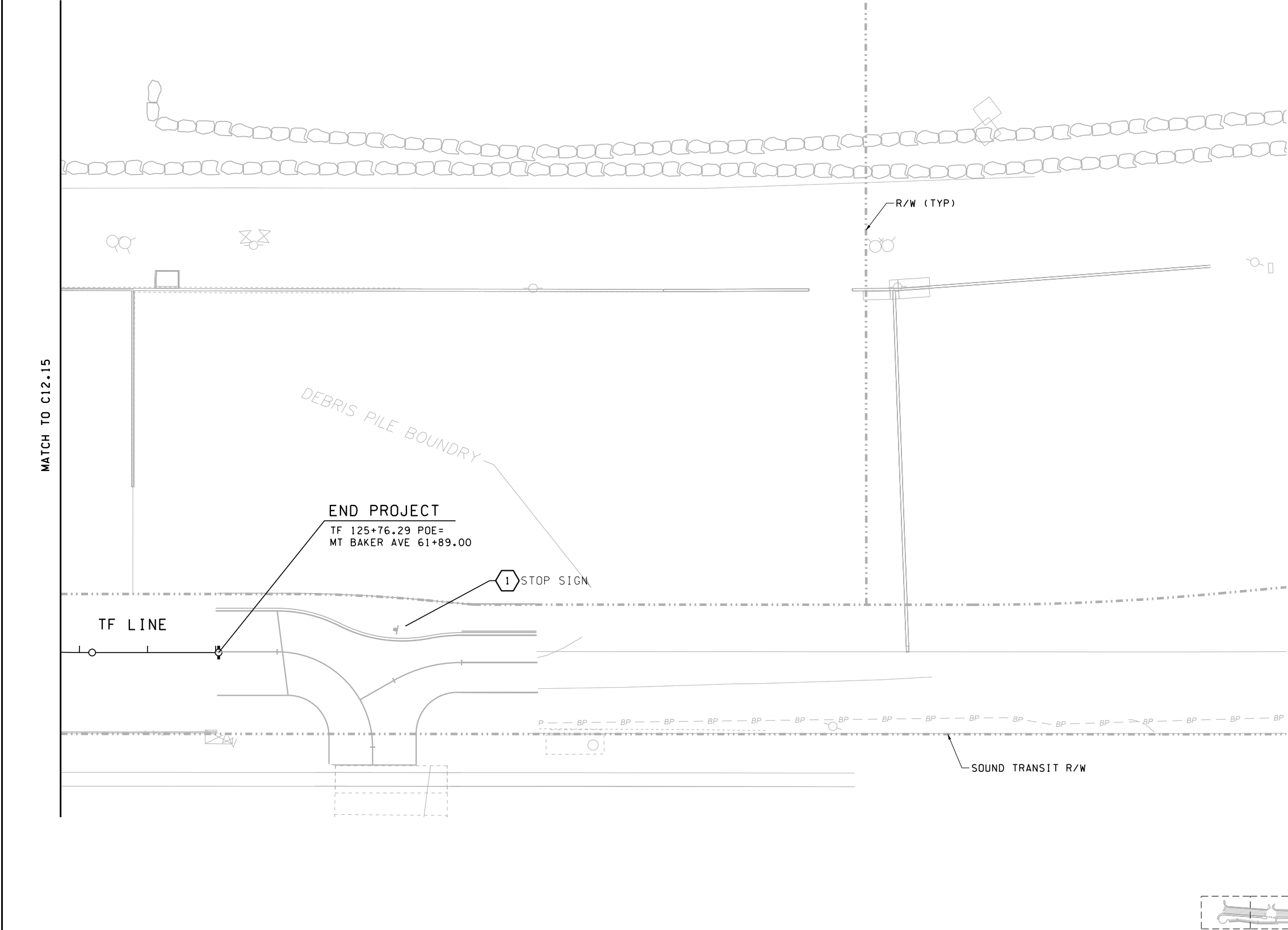
- NOTES:**
- 1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA AND RIGHT-OF-WAY LOCATIONS C06.10 TO C06.16.
  - 2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.

**CONSTRUCTION NOTES:**

1 EXISTING SIGN TO REMAIN.

**LEGEND:**

-  EXISTING SIGN TO BE REMOVED
-  EXISTING SIGN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: K. THOMAS		1/18/19					REGION NO. STATE		
ENTERED BY: K. THOMAS		1/18/19					10 WASH		
CHECKED BY: M. PANICK		1/18/19					JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19			CONTRACT NO.		
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY		009321		



**JACOBS**



**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

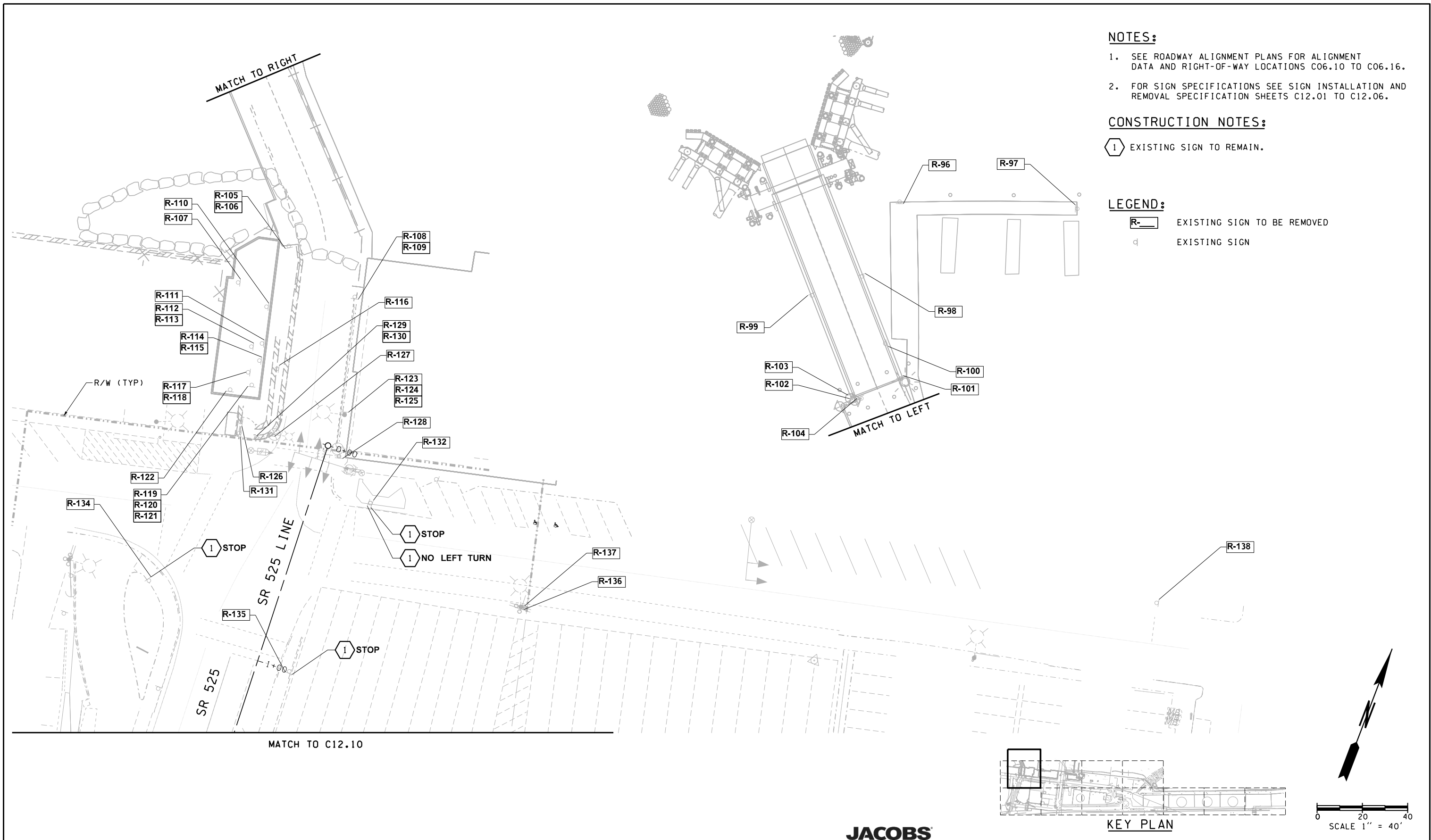
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

**SIGN REMOVAL PLAN**

C12.16

SHEET  
291  
OF  
1521  
SHEETS





- NOTES:**
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA AND RIGHT-OF-WAY LOCATIONS C06.10 TO C06.16.
  2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.

**CONSTRUCTION NOTES:**

1 EXISTING SIGN TO REMAIN.

**LEGEND:**

R- EXISTING SIGN TO BE REMOVED

□ EXISTING SIGN

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: K. THOMAS	1/18/19					REGION NO. STATE	10	WASH	
ENTERED BY: K. THOMAS	1/18/19					JOB NUMBER	18W121		
CHECKED BY: M. PANICK	1/18/19					CONTRACT NO.	009321		
MAR PROJ ENGR: C. TORRES									
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19						
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY					

**JACOBS**

**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

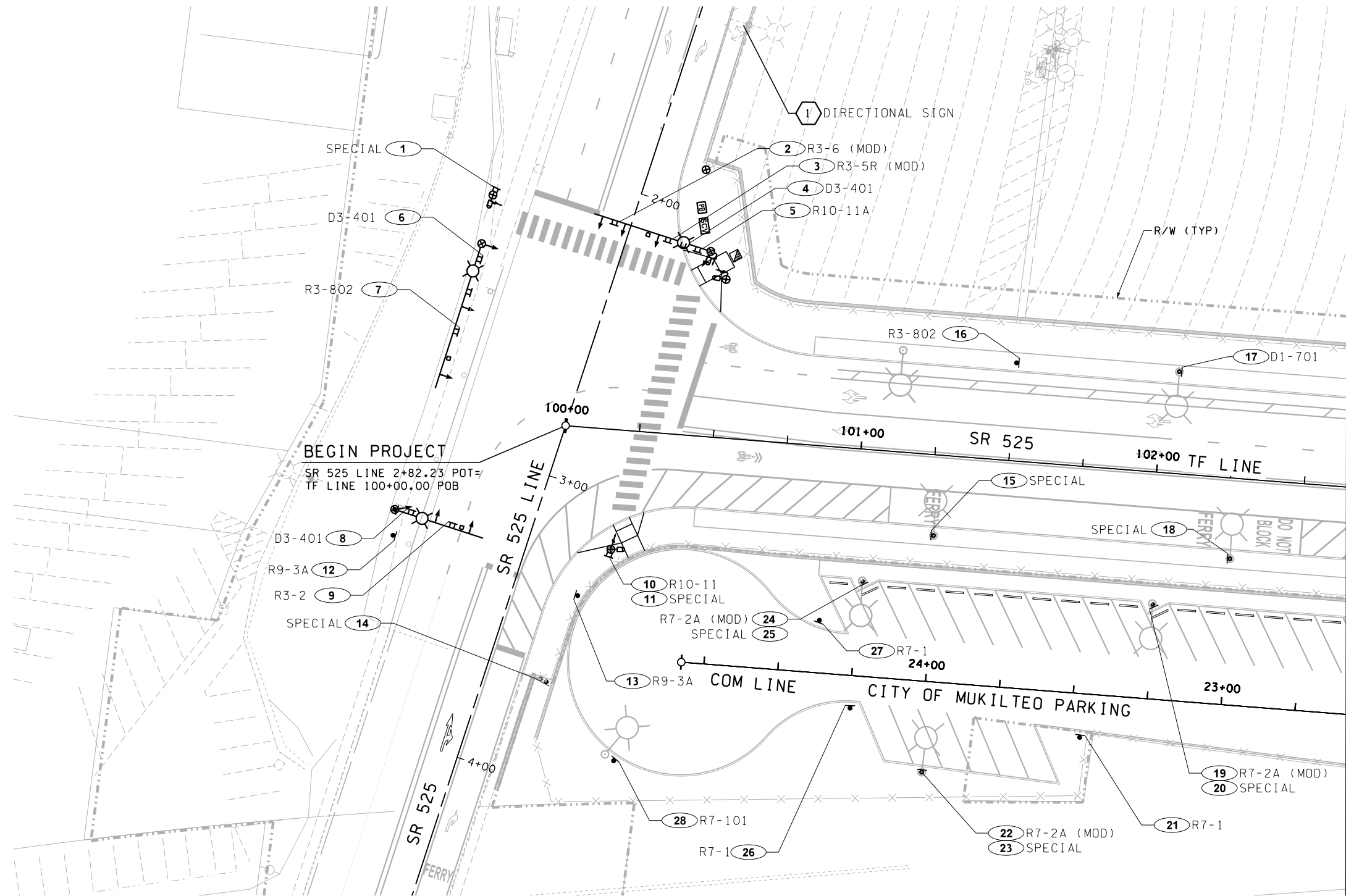
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN REMOVAL PLAN

C12.17

SHEET  
292  
OF  
1521  
SHEETS





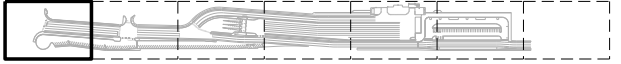
- NOTES:**
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
  2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.
  3. SEE SIGNAL PLANS FOR SIGNAGE ON SIGNAL POLES SHEETS C16.00 TO C16.31.
  4. CONTRACTOR TO VERIFY SIGN LOCATION PRIOR TO INSTALLATION. SEE GENERAL NOTE (A) & GENERAL NOTE (J) ON SHEET C12.01.
  5. INSTALL RECTANGULAR RAPID-FLASHING BEACON (WITH SOLAR ENGINE) PER DETAIL ON SHEET C12.56.
  6. VERIFY SIGN LOCATION PRIOR TO INSTALLATION WITH THE CITY OF MUKILTEO.

**CONSTRUCTION NOTES:**

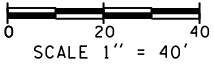
- 1 EXISTING SIGN TO REMAIN.

**LEGEND:**

- NEW SIGN
- NEW TWO POST SIGN
- NEW SIGN NOTE
- EXISTING SIGN
- PEDESTRIAN PUSH BUTTON POLE  
SEE SHEET C12.56 FOR DETAILS



KEY PLAN



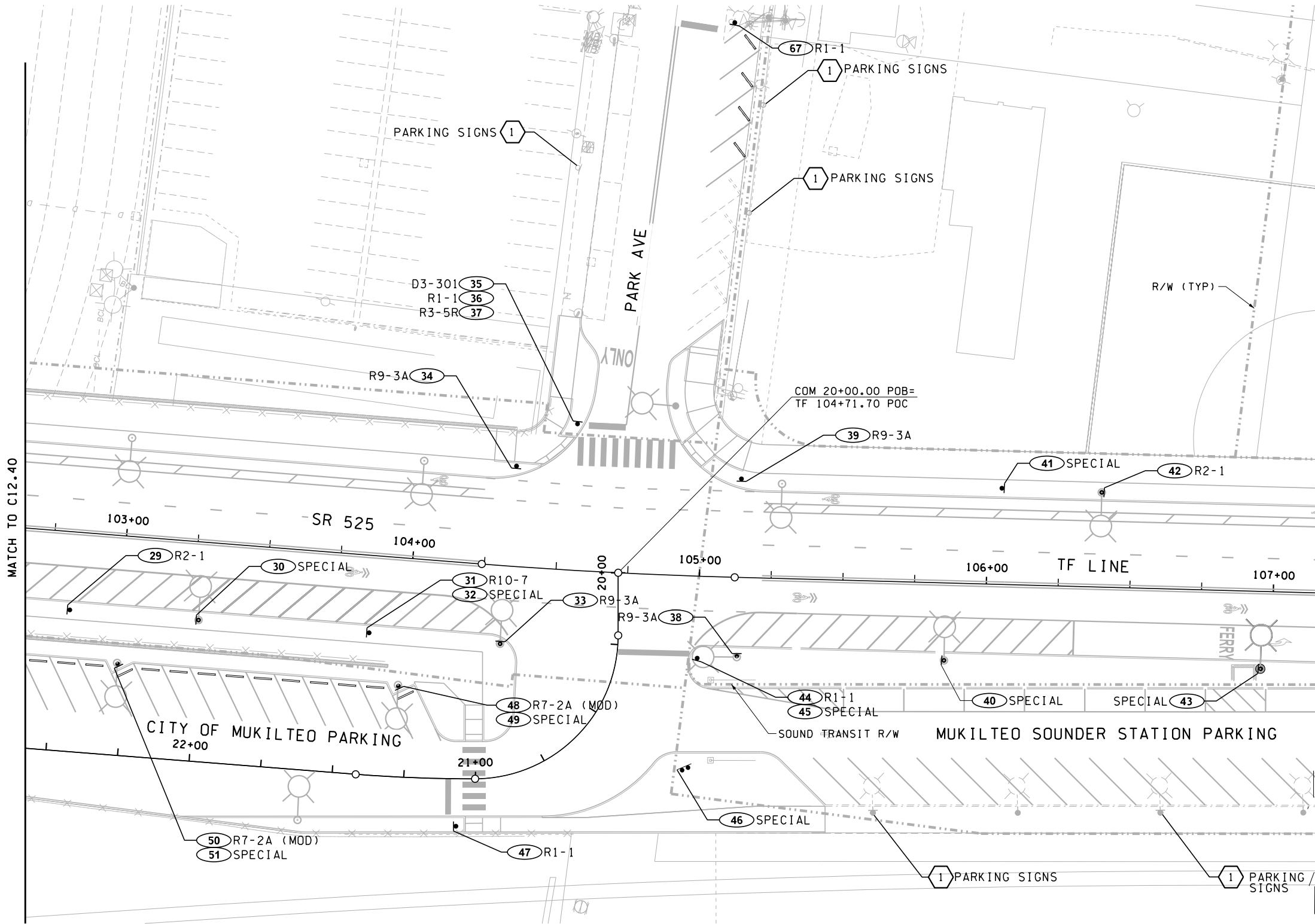
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: K. THOMAS	1/18/19					REGION NO. STATE			
ENTERED BY: C. CONRAD	1/18/19					10 WASH			
CHECKED BY: J. SCHENKMAN	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		009321			

01/18/19

Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		C12.40
SIGNING PLAN		SHEET 293 OF 1521 SHEETS





NOTES:

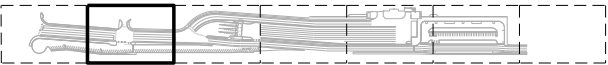
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.
3. SEE SIGNAL PLANS FOR SIGNAGE ON SIGNAL POLES SHEETS C16.00 TO C16.31.
4. CONTRACTOR TO VERIFY SIGN LOCATION PRIOR TO INSTALLATION. SEE GENERAL NOTE (A) & GENERAL NOTE (J) ON SHEET C12.01.
5. INSTALL RECTANGULAR RAPID-FLASHING BEACON (WITH SOLAR ENGINE) PER DETAIL ON SHEET C12.56.
6. VERIFY SIGN LOCATION PRIOR TO INSTALLATION WITH THE CITY OF MUKILTEO.

CONSTRUCTION NOTES:

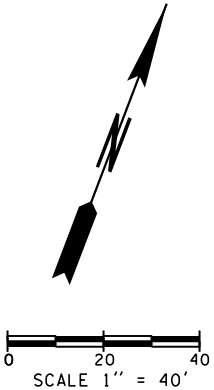
- 1 EXISTING SIGN TO REMAIN.

LEGEND:

- NEW SIGN
- NEW TWO POST SIGN
- NEW SIGN NOTE
- EXISTING SIGN
- PEDESTRIAN PUSH BUTTON POLE  
SEE SHEET C12.56 FOR DETAILS



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$					
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		#USERNAME#			WA-2017-007-00
DESIGNED BY: K. THOMAS		1/18/19			REGION NO. STATE
ENTERED BY: K. THOMAS		1/18/19			10 WASH
CHECKED BY: J. SCHENKMAN		1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON			REVISION	DATE BY	009321



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SIGNING PLAN

C12.41  
SHEET  
294  
OF  
1521  
SHEETS







# NOTES:

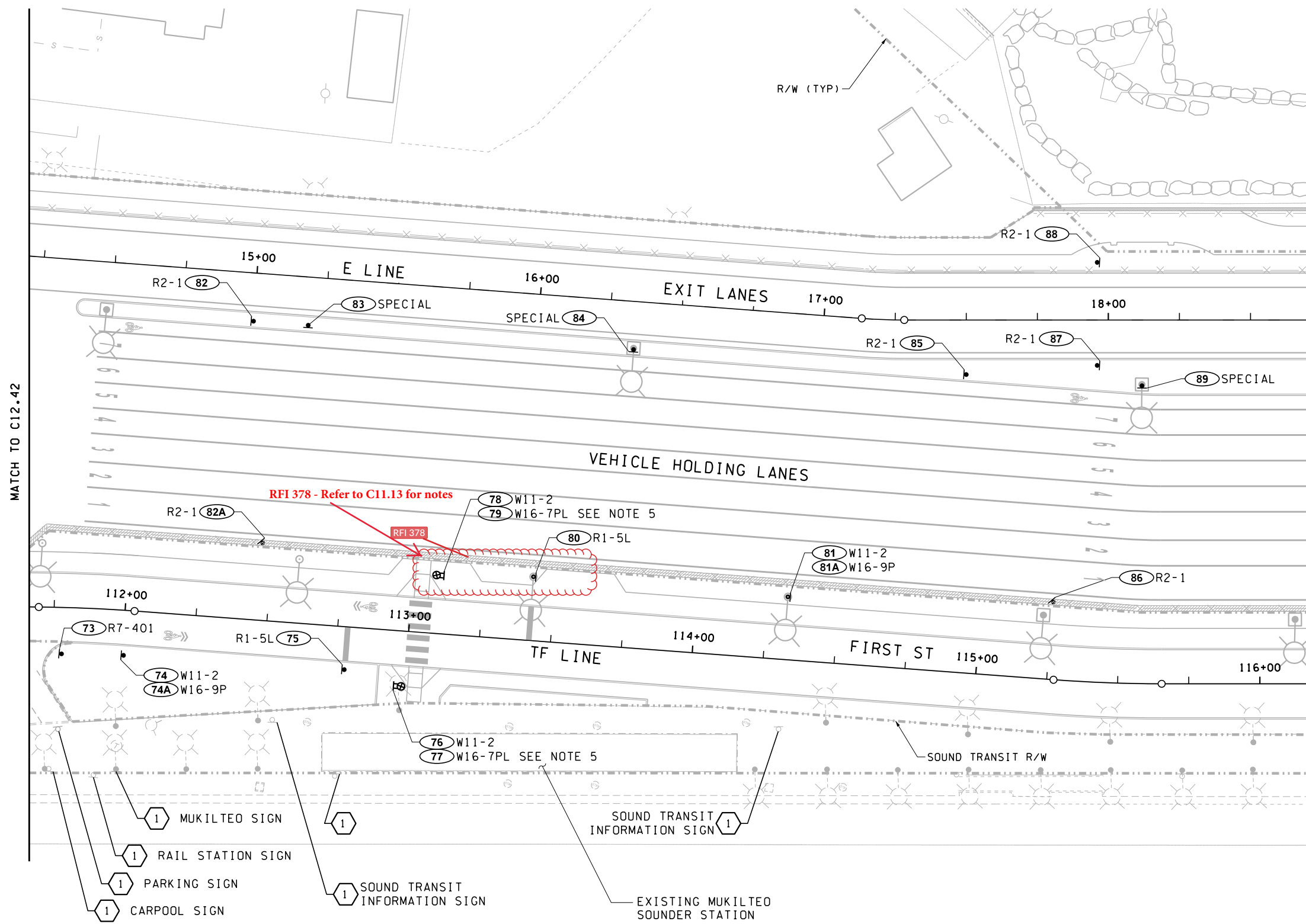
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.
3. SEE SIGNAL PLANS FOR SIGNAGE ON SIGNAL POLES SHEETS C16.00 TO C16.31.
4. CONTRACTOR TO VERIFY SIGN LOCATION PRIOR TO INSTALLATION. SEE GENERAL NOTE (A) & GENERAL NOTE (J) ON SHEET C12.01.
5. INSTALL RECTANGULAR RAPID-FLASHING BEACON (WITH SOLAR ENGINE) PER DETAIL ON SHEET C12.56.
6. VERIFY SIGN LOCATION PRIOR TO INSTALLATION WITH THE CITY OF MUKILTEO.

# CONSTRUCTION NOTES:

- 1 EXISTING SIGN TO REMAIN.

# LEGEND:

- NEW SIGN
- NEW TWO POST SIGN
- NEW SIGN NOTE
- EXISTING SIGN
- PEDESTRIAN PUSH BUTTON POLE  
SEE SHEET C12.56 FOR DETAILS



KEY PLAN

SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$					
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.	
SUBMITTAL DATE: 1/18/19		#USERNAME#		WA-2017-007-00	
DESIGNED BY: K. THOMAS	1/18/19			REGION NO. STATE	
ENTERED BY: K. THOMAS	1/18/19			10 WASH	
CHECKED BY: J. SCHENKMAN	1/18/19			JOB NUMBER	
MAR PROJ ENGR: C. TORRES				18W121	
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.	
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321	



01/18/19



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGNING PLAN

C12.43  
SHEET  
296  
OF  
1521  
SHEETS







NOTES:

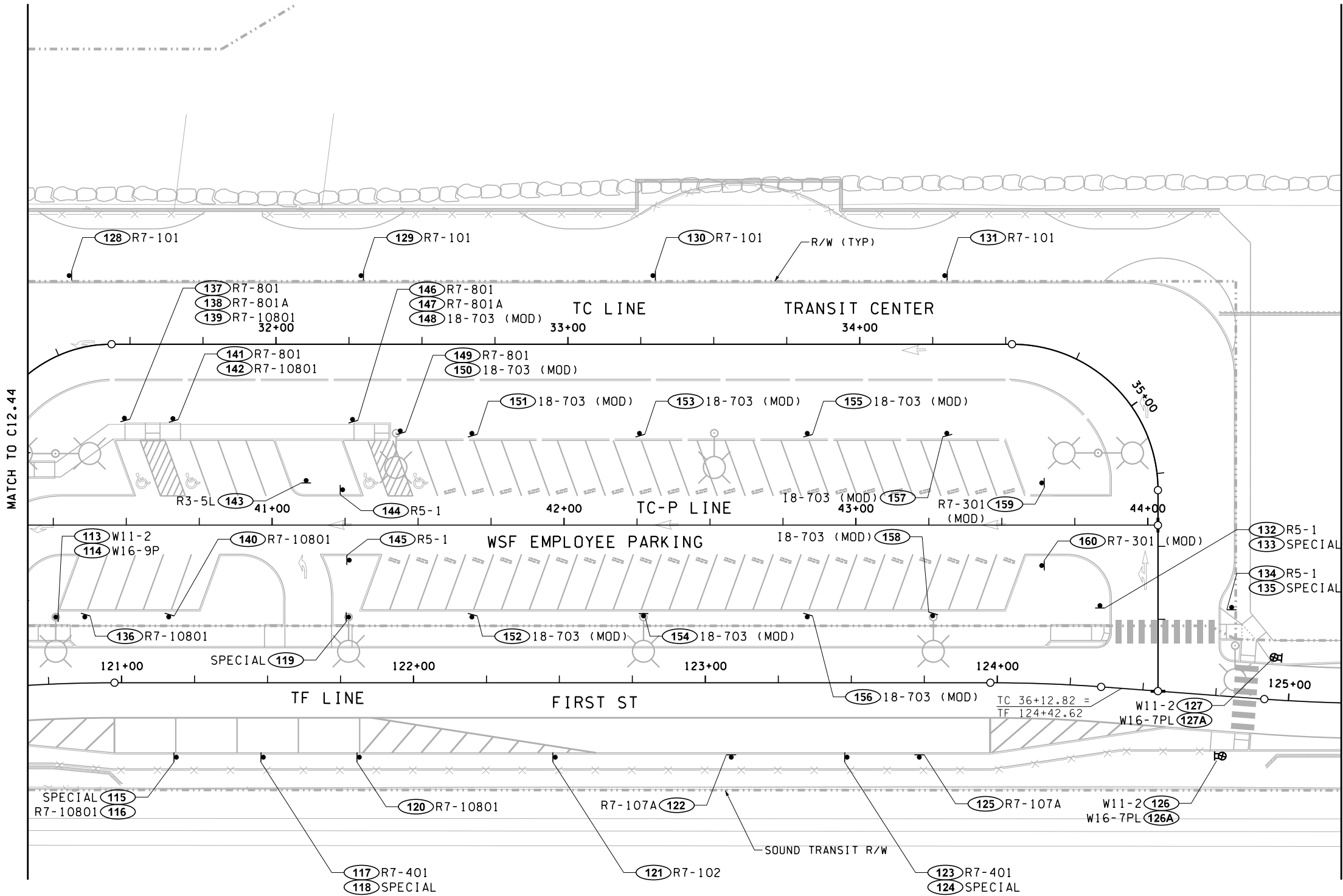
1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.
3. SEE SIGNAL PLANS FOR SIGNAGE ON SIGNAL POLES SHEETS C16.00 TO C16.31.
4. CONTRACTOR TO VERIFY SIGN LOCATION PRIOR TO INSTALLATION. SEE GENERAL NOTE (A) & GENERAL NOTE (J) ON SHEET C12.01.
5. INSTALL RECTANGULAR RAPID-FLASHING BEACON (WITH SOLAR ENGINE) PER DETAIL ON SHEET C12.56.
6. VERIFY SIGN LOCATION PRIOR TO INSTALLATION WITH THE CITY OF MUKILTEO.

CONSTRUCTION NOTES:

- 1 EXISTING SIGN TO REMAIN.

LEGEND:

- NEW SIGN
- NEW TWO POST SIGN
- NEW SIGN NOTE
- EXISTING SIGN
- PEDESTRIAN PUSH BUTTON POLE  
SEE SHEET C12.56 FOR DETAILS



SCALE 1" = 40'

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGNING PLAN

C12.45

SHEET  
298  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID		
SUBMITTAL DATE: 1/18/19		#USERNAME#					PROJ.NO.		
DESIGNED BY: K. THOMAS		1/18/19					WA-2017-007-00		
ENTERED BY: C. CONRAD		1/18/19					REGION NO. STATE		
CHECKED BY: J. SCHENKMAN		1/18/19					10 WASH		
MAR PROJ ENGR: C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH							18W121		
ASST SECRETARY: A. SCARTON							CONTRACT NO.		
							009321		
		CONFORMED PLANS	1/18/19						
		REVISION	DATE	BY					



NOTES:

- 1. SEE ROADWAY ALIGNMENT PLANS FOR ALIGNMENT DATA, SHEETS C06.10 TO C06.16.
- 2. FOR SIGN SPECIFICATIONS SEE SIGN INSTALLATION AND REMOVAL SPECIFICATION SHEETS C12.01 TO C12.06.
- 3. SEE SIGNAL PLANS FOR SIGNAGE ON SIGNAL POLES SHEETS C16.00 TO C16.31.
- 4. CONTRACTOR TO VERIFY SIGN LOCATION PRIOR TO INSTALLATION. SEE GENERAL NOTE (A) & GENERAL NOTE (J) ON SHEET C12.01.
- 5. INSTALL RECTANGULAR RAPID-FLASHING BEACON (WITH SOLAR ENGINE) PER DETAIL ON SHEET C12.56.
- 6. VERIFY SIGN LOCATION PRIOR TO INSTALLATION WITH THE CITY OF MUKILTEO.

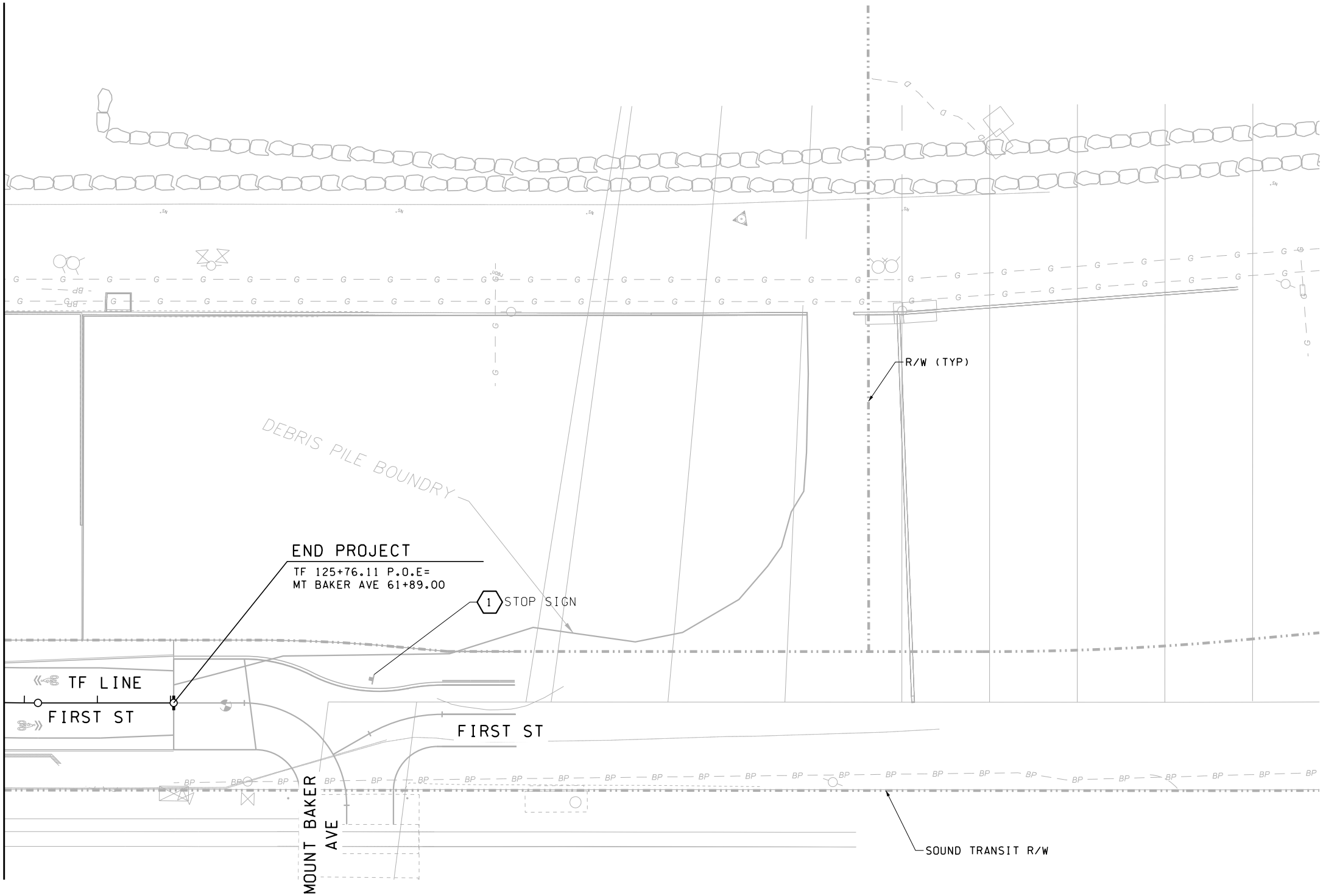
CONSTRUCTION NOTES:

- 1 EXISTING SIGN TO REMAIN.

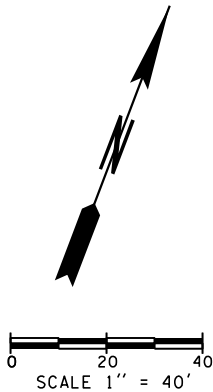
LEGEND:

- NEW SIGN
- NEW TWO POST SIGN
- NEW SIGN NOTE
- EXISTING SIGN
- PEDESTRIAN PUSH BUTTON POLE  
SEE SHEET C12.56 FOR DETAILS

MATCH TO C12.45



KEY PLAN



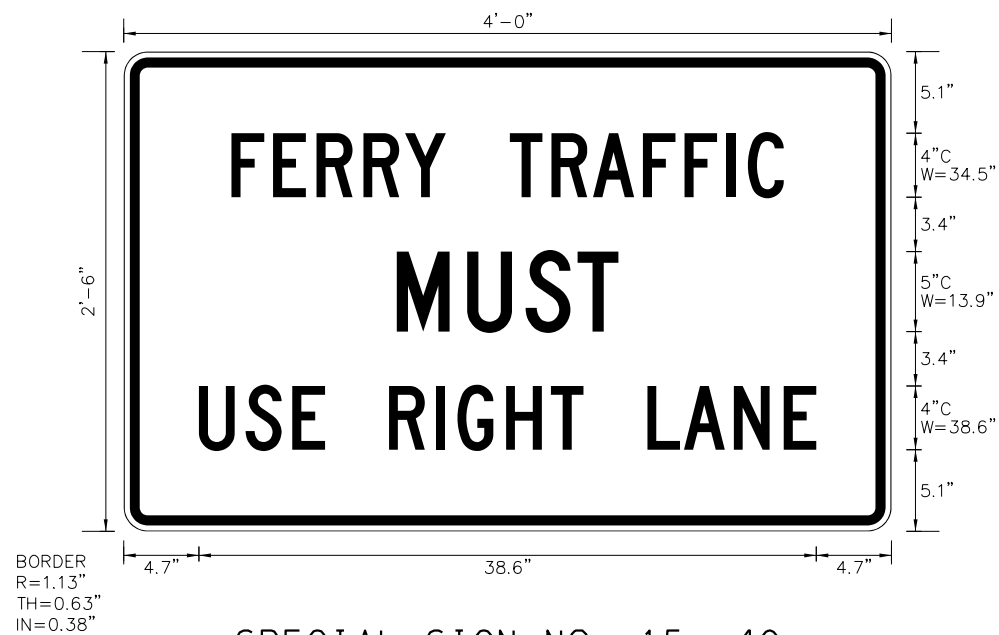
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: K. THOMAS		1/18/19					REGION NO. STATE		
ENTERED BY: K. THOMAS		1/18/19					10 WASH		
CHECKED BY: M. PANICK		1/18/19					JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19			CONTRACT NO.		
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY		009321		



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SIGNING PLAN

C12.46  
SHEET  
299  
OF  
1521  
SHEETS





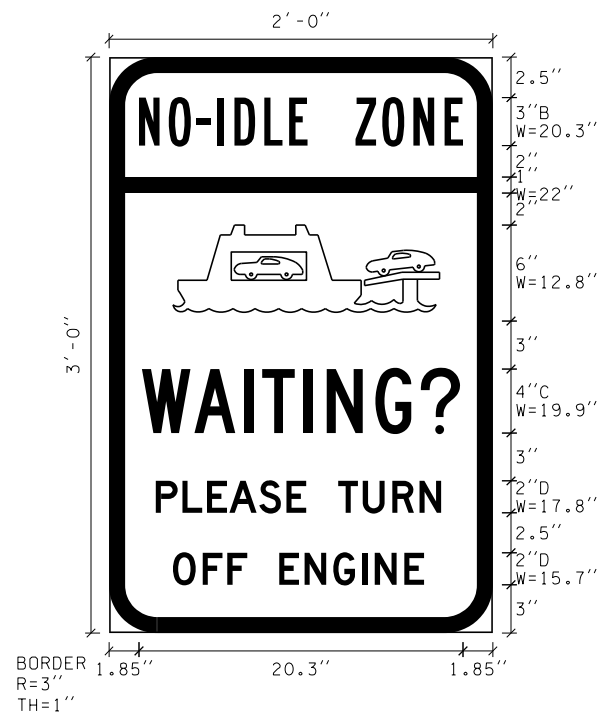
SPECIAL SIGN NO. 15, 40  
BLACK ON WHITE PANEL N.T.S.



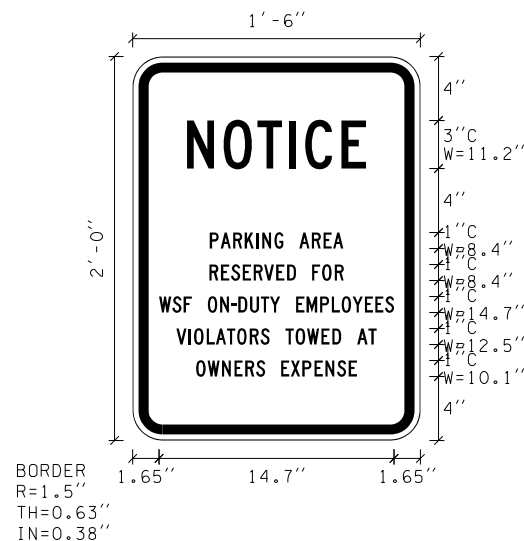
SPECIAL SIGN NO. 1  
BLACK ON WHITE PANEL N.T.S.



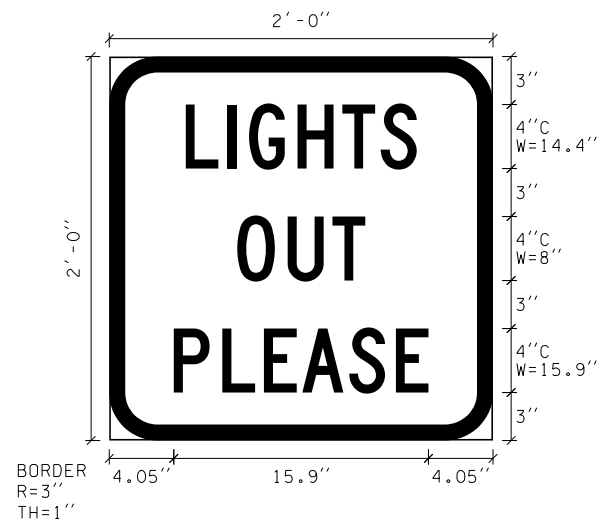
SPECIAL SIGN NO. 45  
BLACK ON WHITE PANEL N.T.S.



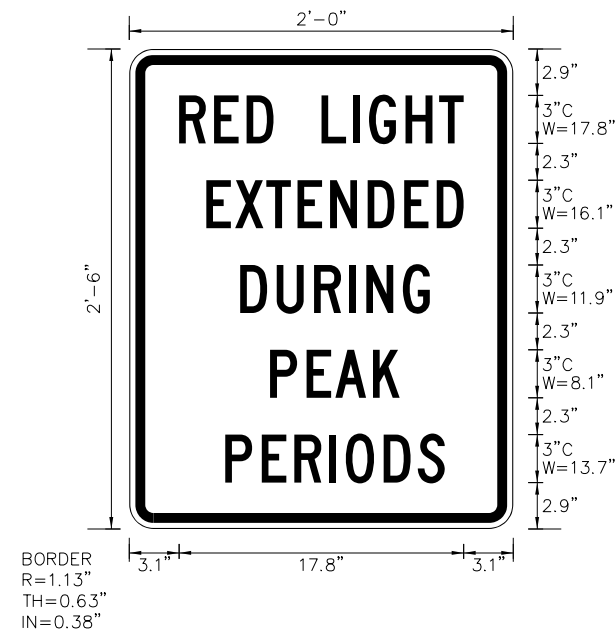
SPECIAL SIGN NO. 18,  
43, 83, 84, 89, 96  
WHITE ON BLUE PANEL N.T.S.  
15-801 FERRY  
(SYMBOL/CAR BOARDING FERRY)



18-703 (MOD) SIGN NO. 148, 150, 151,  
152, 153, 154, 155, 156, 157, 158  
BLACK ON WHITE PANEL N.T.S.




SPECIAL SIGN NO. 99,  
101, 105, 106  
BLACK ON WHITE PANEL N.T.S.




SPECIAL SIGN NO. 11, 60  
BLACK ON WHITE PANEL N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: M. GUILLEN		1/18/19				REGION NO. STATE			
ENTERED BY: C. CONRAD		1/18/19				10 WASH			
CHECKED BY: J. SCHENKMAN		1/18/19				JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH			CONFORMED PLANS	1/18/19		CONTRACT NO.			
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY	009321			

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES



01/18/19

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN DETAILS

C12.50

SHEET  
300  
OF  
1521  
SHEETS





R3-6(MOD) SIGN NO. 2  
BLACK ON WHITE PANEL N.T.S.



R3-5R(MOD) SIGN NO. 3  
BLACK ON WHITE PANEL N.T.S.



SPECIAL SIGN NO. 100A  
N.T.S.

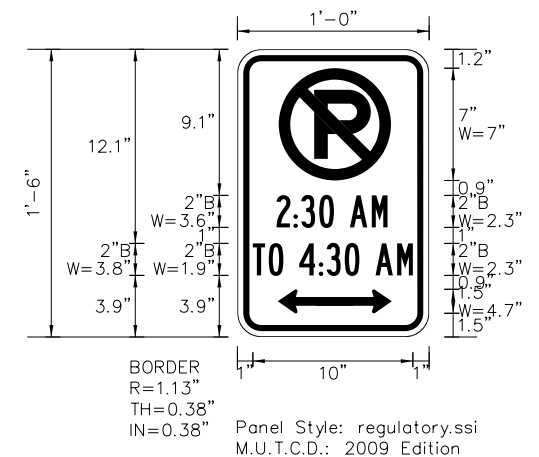
"RESTRICTED AREA" BLACK ON RED PANEL  
"AUTHORIZED PERSONNEL" BLACK ON WHITE PANEL



R3-6(MOD) SIGN NO. 58  
BLACK ON WHITE PANEL N.T.S.



R3-5L(MOD) SIGN NO. 59  
BLACK ON WHITE PANEL N.T.S.



R7-2A(MOD) SIGN NO. 19, 22, 24, 50  
BLACK ON WHITE PANEL  
CIRCLE, DIAGONAL RED N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: M. PANICK	1/18/19					REGION NO. STATE			
ENTERED BY: C. CONRAD	1/18/19					10 WASH			
CHECKED BY: J. SCHENKMAN	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		009321			

JACOBS

Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

JEFFREY L. SCHENKMAN  
PROFESSIONAL ENGINEER  
56036  
REGISTERED  
STATE OF WASHINGTON

01/18/19

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGN DETAILS

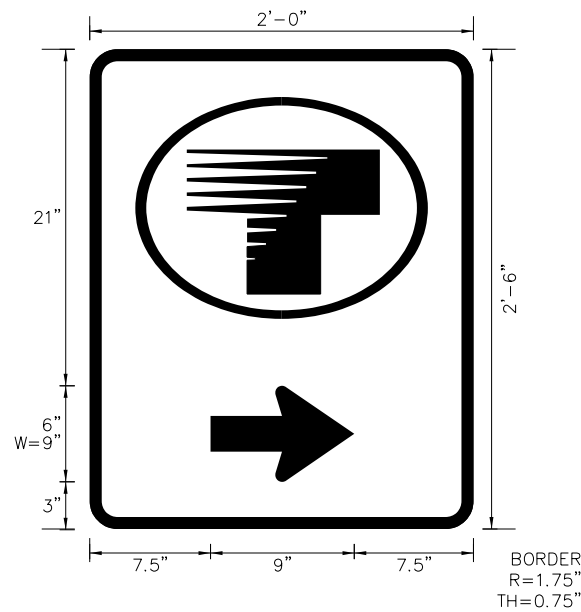
C12.51

SHEET  
301  
OF  
1521  
SHEETS





SPECIAL SIGN NO. 119  
WHITE ON GREEN PANEL N.T.S.



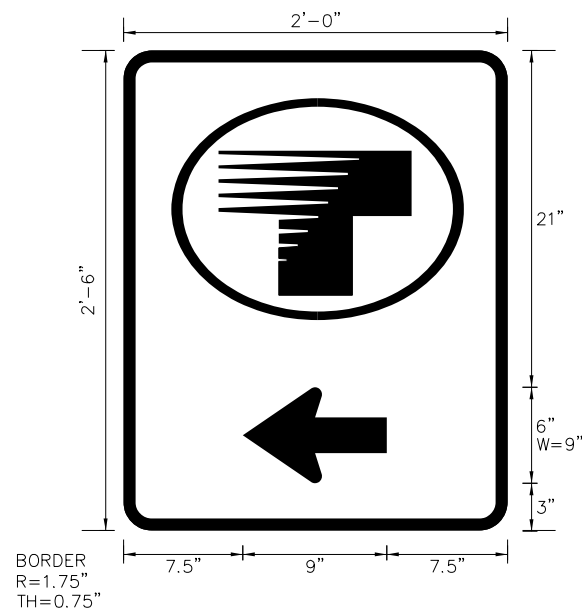
SPECIAL SIGN NO. 30  
BLACK ON WHITE PANEL N.T.S.



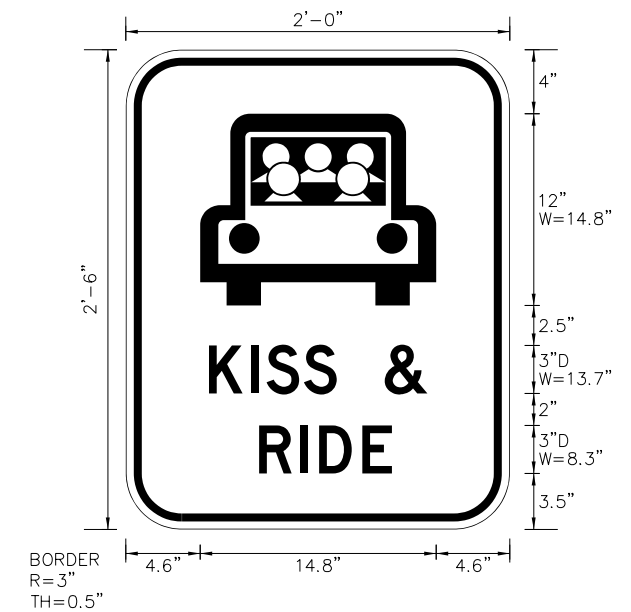
SPECIAL SIGN NO. 20, 23, 25, 51  
GREEN ON WHITE PANEL N.T.S.  
"P" SYMBOL BLACK



SPECIAL SIGN NO. 100  
BLACK ON WHITE PANEL N.T.S.



SPECIAL SIGN NO. 41  
BLACK ON WHITE PANEL N.T.S.



D4-2(MOD) SIGN NO. 115  
BLACK ON WHITE PANEL N.T.S.





**Washington State  
Department of Transportation**  
WASHINGTON STATE FERRIES

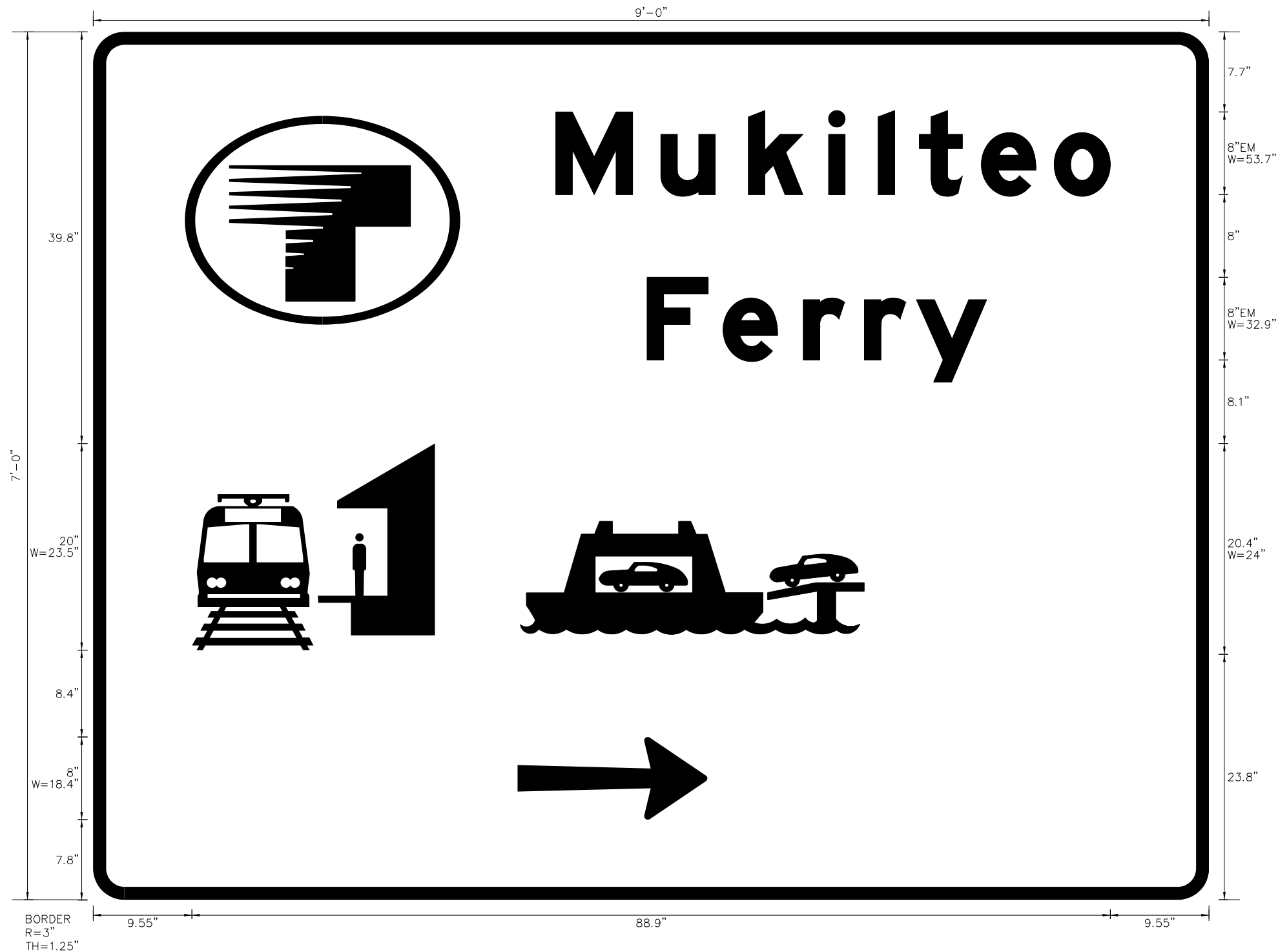
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

## SIGN DETAILS

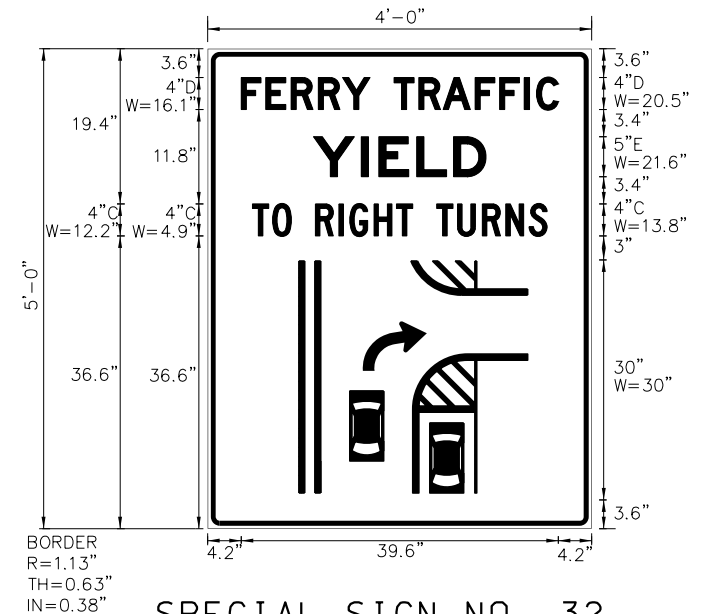
C12.53

SHEET  
303  
OF  
1521  
SHEETS

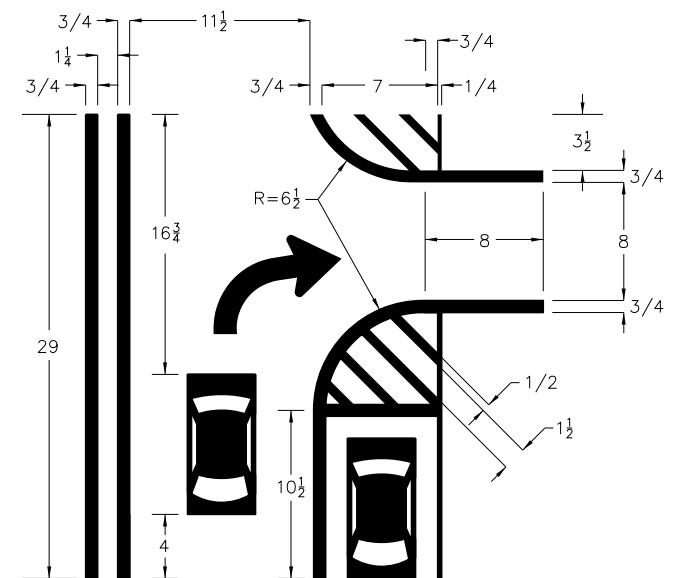




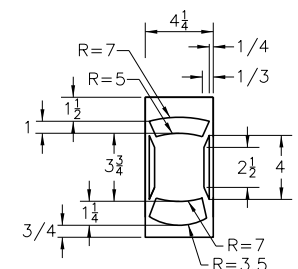
**SPECIAL SIGN NO. 14**  
WHITE ON GREEN PANEL N.T.S.



**SPECIAL SIGN NO. 32**  
BLACK ON WHITE PANEL N.T.S.  
DIAGRAM DETAILS SHOWN BELOW

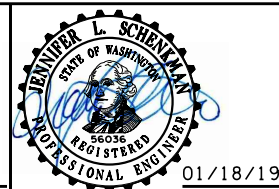


**SIGN NO. 32 DIAGRAM DETAIL**  
DIMENSIONS SHOWN IN INCHES



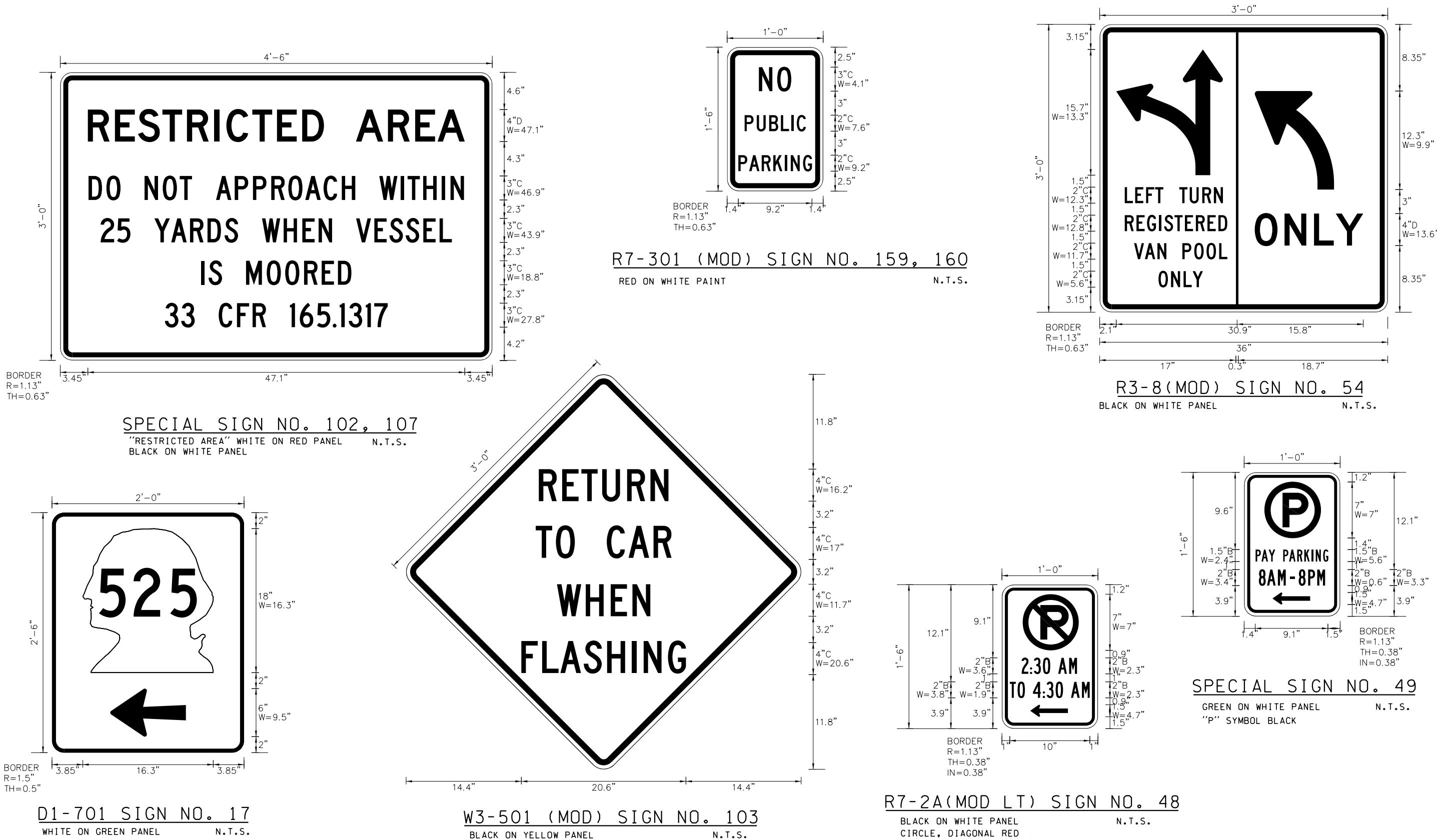
**SIGN NO. 32 CAR DETAILS**  
DIMENSIONS SHOWN IN INCHES


FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: M. PANICK	1/18/19						REGION NO. STATE		
ENTERED BY: C. CONRAD	1/18/19						10 WASH		
CHECKED BY: J. SCHENKMAN	1/18/19						JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19				CONTRACT NO.		
ASST SECRETARY: A. SCARTON		REVISION		DATE	BY		009321		



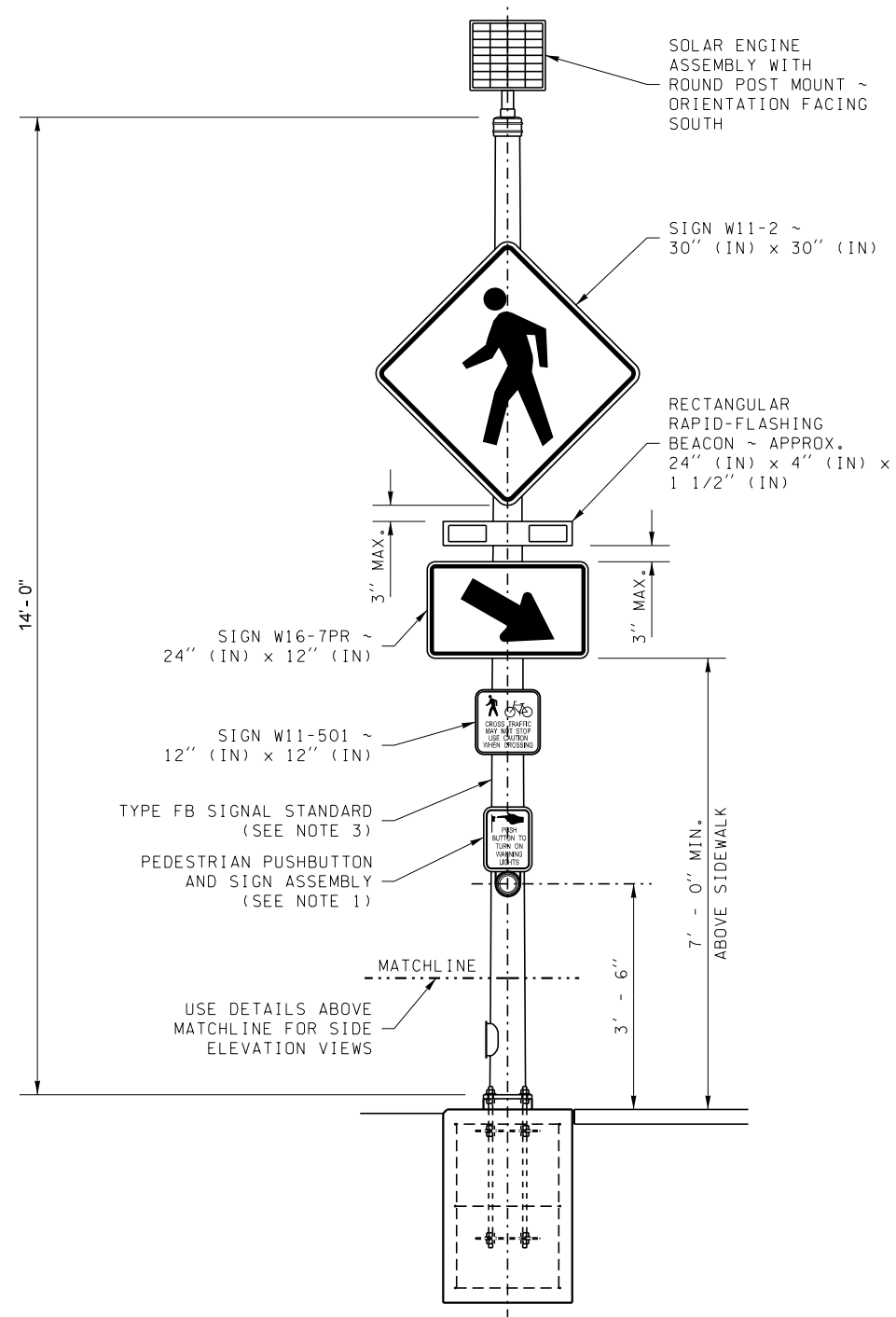
SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	C12.54
SIGN DETAILS	SHEET 304 OF 1521 SHEETS





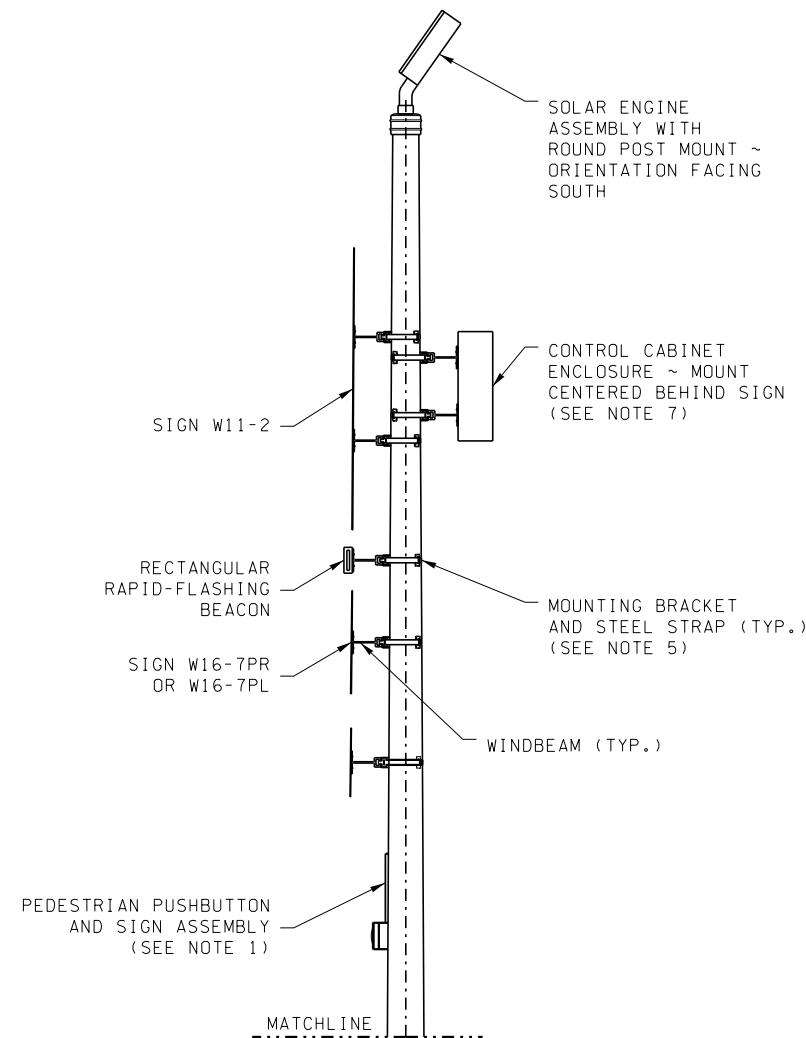
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$												 <b>Washington State Department of Transportation</b> WASHINGTON STATE FERRIES		SR 525		C12.55	
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:										MUKILTEO FERRY TERMINAL (PHASE 2)		SHEET	
SUBMITTAL DATE: 1/18/19		#USERNAME#						FED.AID PROJ.NO.						305			
DESIGNED BY: M. GUILLEN		1/18/19						WA-2017-007-00						OF			
ENTERED BY: C. CONRAD		1/18/19						REGION NO. STATE						1521			
CHECKED BY: J. SCHENKMAN		1/18/19						10 WASH						SHEETS			
MAR PROJ ENGR: C. TORRES								JOB NUMBER									
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19		18W121									
ASST SECRETARY: A. SCARTON				REVISION		DATE BY		CONTRACT NO.									
								009321									





FRONT ELEVATION VIEW  
RECTANGULAR RAPID-FLASHING BEACON  
(WITH SOLAR ENGINE)

FIXED BASE AND CONCRETE SQUARE  
FOUNDATION SHOWN (SEE NOTES 2 & 4)



SIDE ELEVATION VIEW  
UNI-DIRECTIONAL CONFIGURATION  
DETAILS

- NOTES:

1. PEDESTAL PUSHBUTTON AND SIGN ASSEMBLY - MAY BE SEPARATE PARTS. USE 9" (IN) X 12" (IN) R10-25 SIGN IN ACCORDANCE WITH 2009 MUTCD. SIGN MAY INCLUDE INTEGRATED WARNING LIGHTS.
2. SEE STANDARD PLAN J-21.10 FOR SIGNAL STANDARD FOUNDATION WITH FIXED BASE AND SLIP BASE DETAILS.
3. SEE STANDARD PLAN J-21.16 FOR SIGNAL STANDARD DETAILS NOT SHOWN.
4. SEE STANDARD PLAN J-21.17, DETAIL C FOR WIRING DETAILS NOT SHOWN.
5. SEE STANDARD PLAN G-30.10 FOR SIGN INSTALLATION ON SIGNAL STANDARD DETAILS.
6. TERMINATE RRFB CONNECTIONS PER MANUFACTURER'S RECOMMENDATION.
7. CONTROL CABINET ENCLOSURE SHALL BE SIZED BY THE RRFB MANUFACTURER. THE CONTROL CABINET SHALL BE MANUFACTURED PER TERMINAL CABINET REQUIREMENTS OF STANDARD SPECIFICATION SECTION 9-29.25.

FILE NAME: WS\Fukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:					
SUBMITTAL DATE: 1/18/19				#USERNAME#				FED.AID PROJ.NO.	
DESIGNED BY: C. CONRAD		1/18/19						WA-2017-007-00	
ENTERED BY: C. CONRAD		1/18/19						REGION NO. STATE	
CHECKED BY: M. PANICK		1/18/19						10 WASH	
MAR PROJ ENGR: C. TORRES								JOB NUMBER 18W121	
DIR TERM ENGR: N. MCINTOSH								CONTRACT NO. 009321	
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY	



**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

## SIGN DETAILS

C12.56

SHEET  
306  
OF  
1521  
SHEETS



SITE FURNISHING SCHEDULE

	SYM	QTY	TYPE	SIZE/REMARKS
1 C13.30		9	LOG BENCH	SEE SPECS 8-05 AND 9-37
2 C13.31		8	BIKE RACK	SEE SPECS 8-05 AND 9-37
3 C13.31		5	TRASH RECEPTACLE	SEE SPECS 8-05 AND 9-37
		5	RECYCLE RECEPTACLE	SEE SPECS 8-05 AND 9-37
2 C13.30			SAW CUT CONTROL JOINT	SEE SPEC 8-14
			EXPANSION JOINT	SEE SPEC 8-14







ABBREVIATIONS

#/NO	NUMBER	MAX	MAXIMUM
%	PERCENT	MIN	MINIMUM
CL	CENTERLINE	OC	ON CENTER
CLR	CLEAR	QTY	QUANTITY
CONC	CONCRETE	SPEC(s)	SPECIFICATION(s)
CONSTR	CONSTRUCTION	SQ FT	SQUARE FOOT
DIAM	DIAMETER	SS	STAINLESS STEEL
DWG(s)	DRAWING(s)	SYM	SYMBOL
EXIST	EXISTING	TYP	TYPICAL

NOTES:

1. ANY DISCREPANCIES WITH THE DWGs AND/OR SPECS AND SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO PROCEEDING WITH CONSTR.
2. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UTILITIES PRIOR TO BEGINNING CONSTR.
3. CONTRACTOR TO PROVIDE MOCK UP PANELS, SEE SPECS.
4. SEE SHEET C09.40 AND PLANTING PLANS FOR LOCATIONS OF DOG MITT STATIONS PER DETAIL 6, SHEET C09.62.

LEGEND

SYM	TYPE
1 C13.30	DETAIL IDENTIFICATION
	PLANTED AREAS, SEE PLANTING DWGs
	HEAVY EXPOSED AGGREGATE; EXPOSED AGGREGATE FINISH BY SURFACE RETARDER; SEE PLANS FOR APPROXIMATE LOCATIONS; FINAL LOCATION TO BE REVIEWED AND APPROVED BY ENGR PRIOR TO CONSTR
	MEDIUM EXPOSED AGGREGATE; EXPOSED AGGREGATE FINISH BY SURFACE RETARDER; SEE PLANS FOR APPROXIMATE LOCATIONS; FINAL LOCATION TO BE REVIEWED AND APPROVED BY ENGR PRIOR TO CONSTR
	MEDIUM BROOM FINISH
	SEEDED AGGREGATE 1
	SEEDED AGGREGATE 2
4 C13.31	BOLLARD LIGHT, SEE ILLUMINATION DWGs



FILE NAME: PW:\WSF\Mukilteo\14w121\_FERRYTERMCONST\CADD\HBB\14w121c13\_00.dlv

PRINTED: 2:20:13 PM	1/8/2019	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE:	09/21/18	BHADDOX				WA-2017-007-00
DESIGNED BY:	J. VONG	12/22/17				REGION NO. STATE
ENTERED BY:	B. HADDOX	12/22/17				10 WASH
CHECKED BY:	D. KOONTZ	12/22/17				JOB NUMBER
MAR PROJ ENGR:	C. TORRES					18W121
DIR TERM ENGR:	N. MCINTOSH		CHANGE ORDER	1/9/19	BH	CONTRACT NO.
ASST SECRETARY:	A. SCARTON		REVISION	DATE	BY	00*****

WASHINGTON STATE FERRIES

SR525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

URBAN DESIGN SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS

C13.00

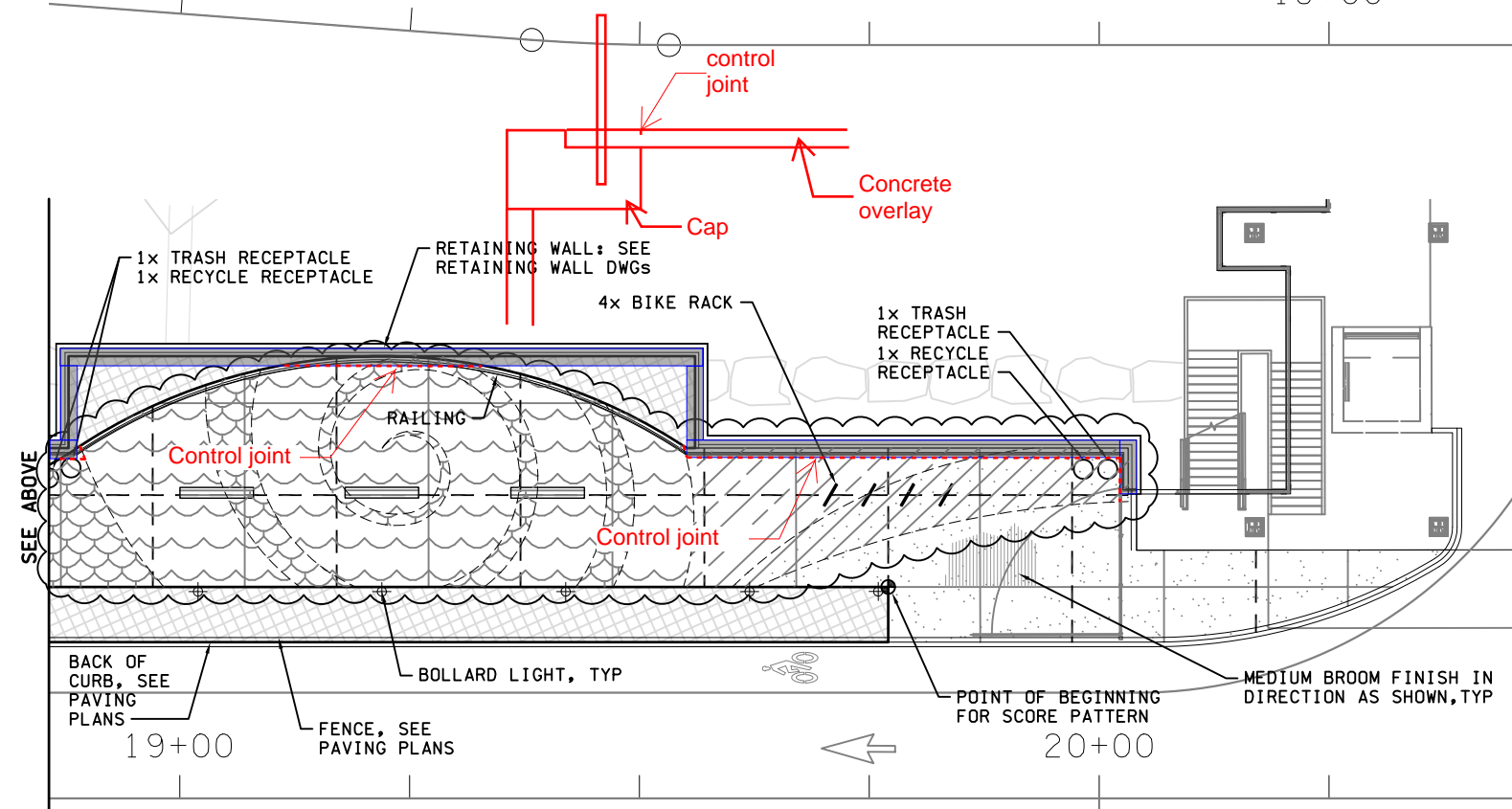
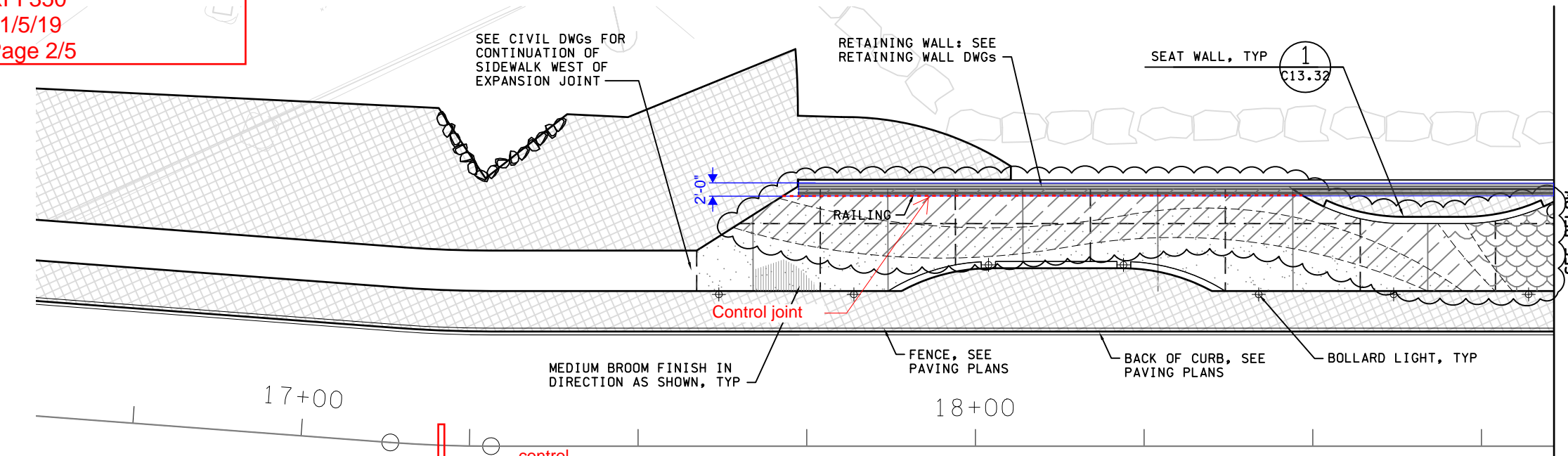
SHEET 307 OF 1521 SHEETS



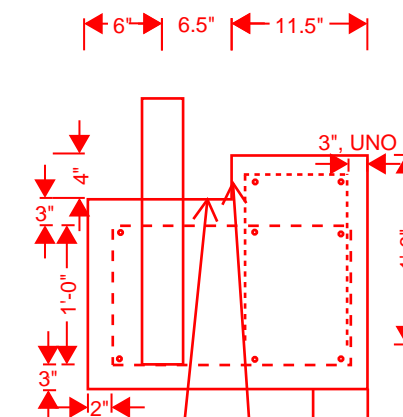
PROMENADE COPING  
RFI 350  
11/5/19  
Page 2/5

NOTES:

1. FOR PLANTING, SEE PLANTING PLANS, DWGs C09.40-C09.64.
2. FOR LAYOUT AND DIMENSIONING OF URBAN DESIGN ELEMENTS, SEE URBAN DESIGN DIMENSIONING PLANS, SHEETS C13.20 THROUGH C13.22.
3. FOR LAYOUT AND DIMENSIONING OF PAVEMENT FINISHES, SEE PAVEMENT FINISH DIMENSIONING PLANS, SHEETS C13.40 THROUGH C13.42.



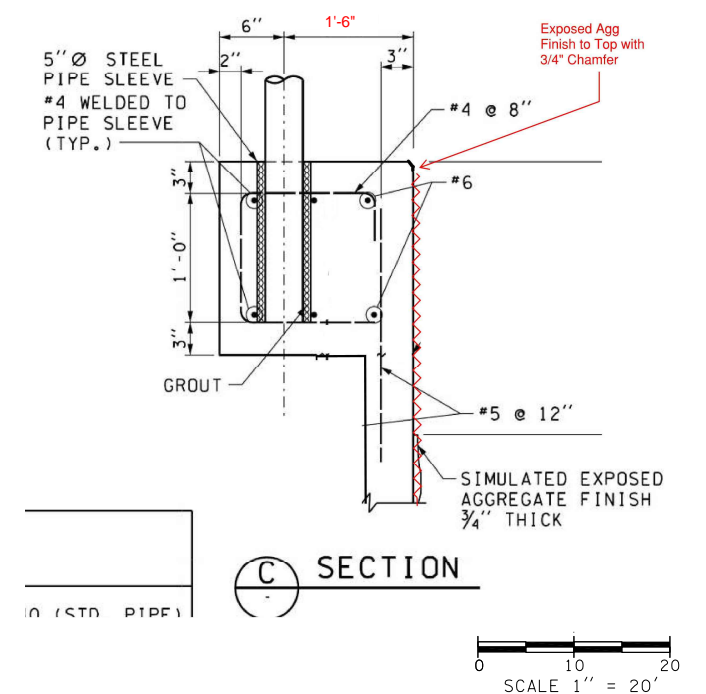
## UPDATED DETAIL UNO



roughened surface

joint filler per wsdot  
std sidewalk plan

FROM RFI 106



1 PROMENADE ENLARGEMENT 1  
C13.10 NOT TO SCALE

FILE NAME: P:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c13_10.dlv									
PRINTED: 2:20:28 PM 1/8/2019			LAST PRINTED BY:					FED.AID PROJ.NO.	
SUBMITTAL DATE: 09/21/18			BHADDOX					WA-2017-007-0	
DESIGNED BY: J. VONG			12/22/17					REGION NO. STATE	
ENTERED BY: B. HADDOX			12/22/17					10	WASH
CHECKED BY: D. KOONTS			12/22/17					JOB NUMBER 14W121	
MAR PROJ ENGR: C. TORRES								CONTRACT NO. 00*****	
DIR TERM ENGR: N. MCINTOSH			CHANGE ORDER		1/9/19	BH			
ASST SECRETARY: A. SCARTON			REVISION		DATE	BY			



**Washington State  
Department of Transportation**  
WASHINGTON STATE FERRIES

SR525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

URBAN DESIGN PLAN

C13.10

SHEET

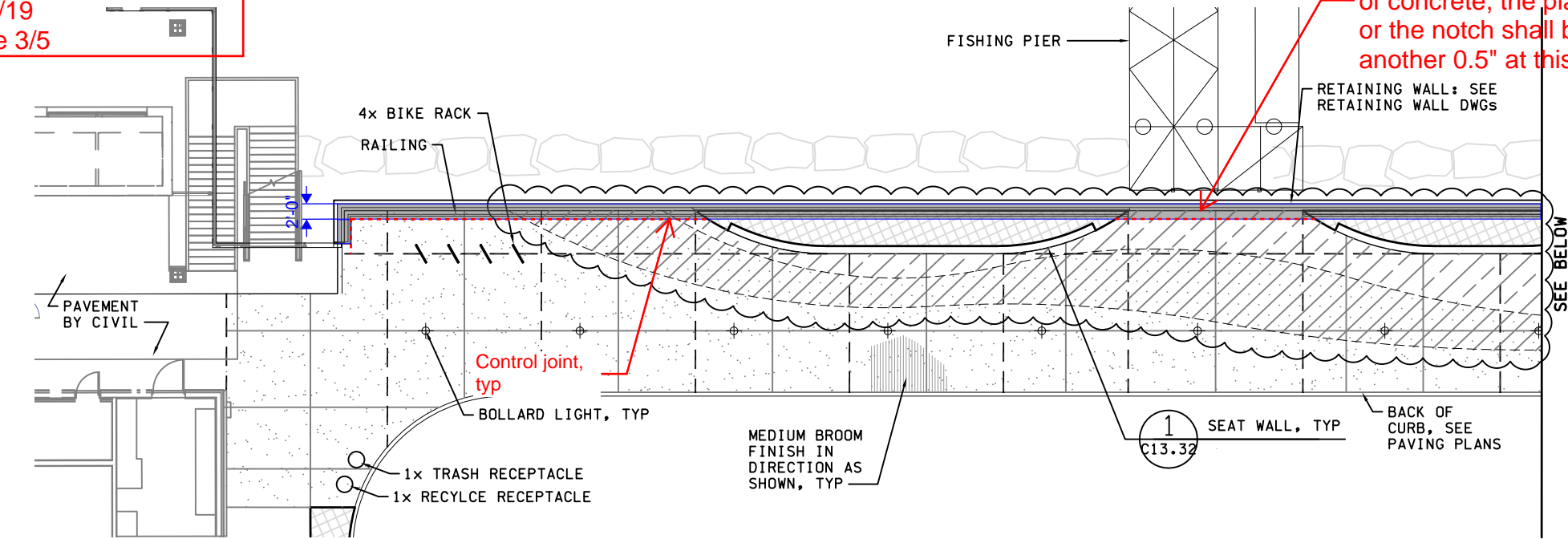
F

## SHEETS





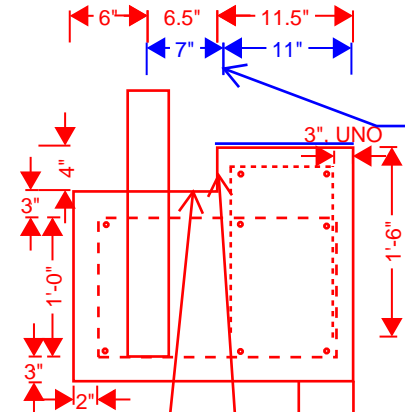
PROMENADE COPING  
RFI 350  
11/5/19  
Page 3/5



NOTES:

1. FOR PLANTING, SEE PLANTING PLANS, DWGS C09.40-C09.64.
2. FOR LAYOUT AND DIMENSIONING OF URBAN DESIGN ELEMENTS, SEE URBAN DESIGN DIMENSIONING PLANS, SHEETS C13.20 THROUGH C13.22.
3. FOR LAYOUT AND DIMENSIONING OF PAVEMENT FINISHES, SEE PAVEMENT FINISH DIMENSIONING PLANS, SHEETS C13.40 THROUGH C13.42.

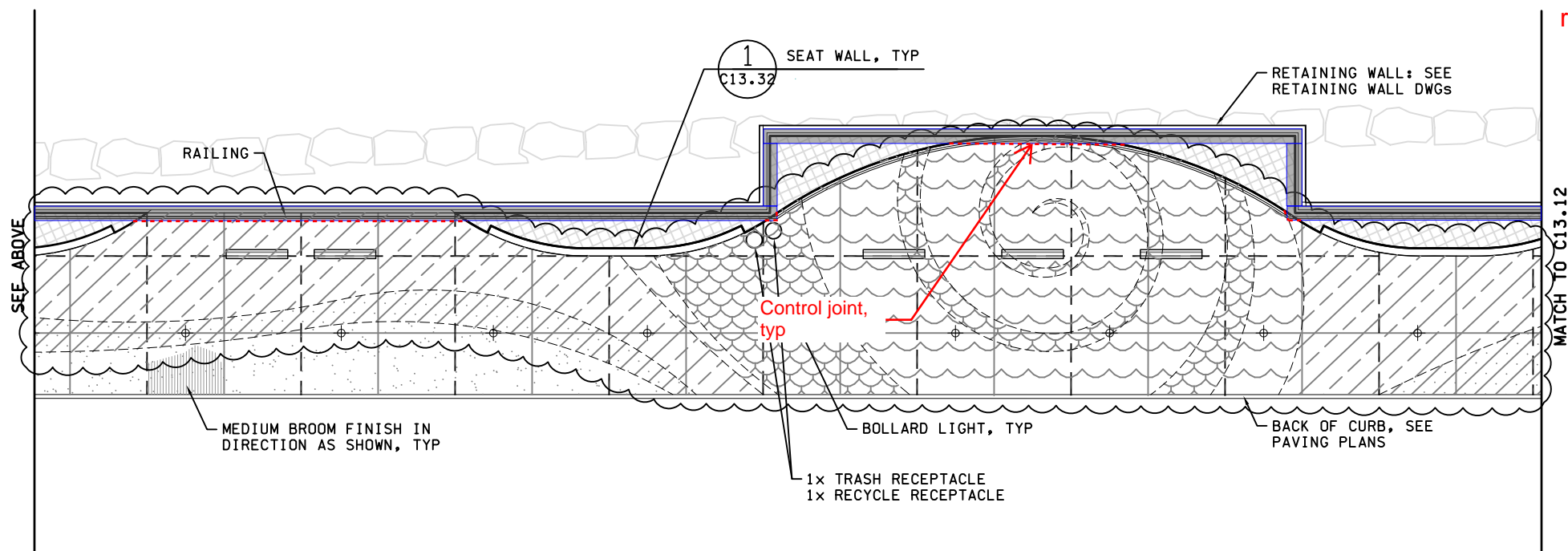
UPDATED DETAIL  
AT FISHING PIER



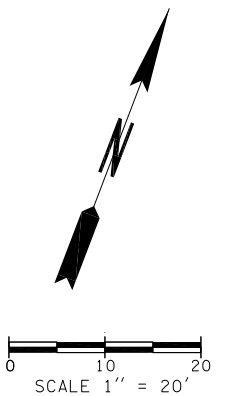
If cover plate is left as 11",  
concrete cover may be 1/2"  
less to allow for continuous  
steel

roughened surface

joint filler per wsdot  
std sidewalk plan



1 PROMENADE ENLARGEMENT 2  
C13.11 NOT TO SCALE



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c13_11.dwg					FED.AID PROJ.NO.	
PRINTED: 2:20:43 PM	1/8/2019	LAST PRINTED BY:			WA-2017-007-00	
SUBMITTAL DATE:	09/21/18	BHADDOX			REGION NO. STATE	
DESIGNED BY:	J. VONG	12/22/17			10 WASH	
ENTERED BY:	B. HADDOX	12/22/17			JOB NUMBER	
CHECKED BY:	D. KOONTS	12/22/17			14W121	
MAR PROJ ENGR:	C. TORRES				CONTRACT NO.	
DIR TERM ENGR:	N. MCINTOSH				00*****	
ASST SECRETARY:	A. SCARTON					
CHANGE ORDER		1/9/19	BH			
REVISION		DATE	BY			

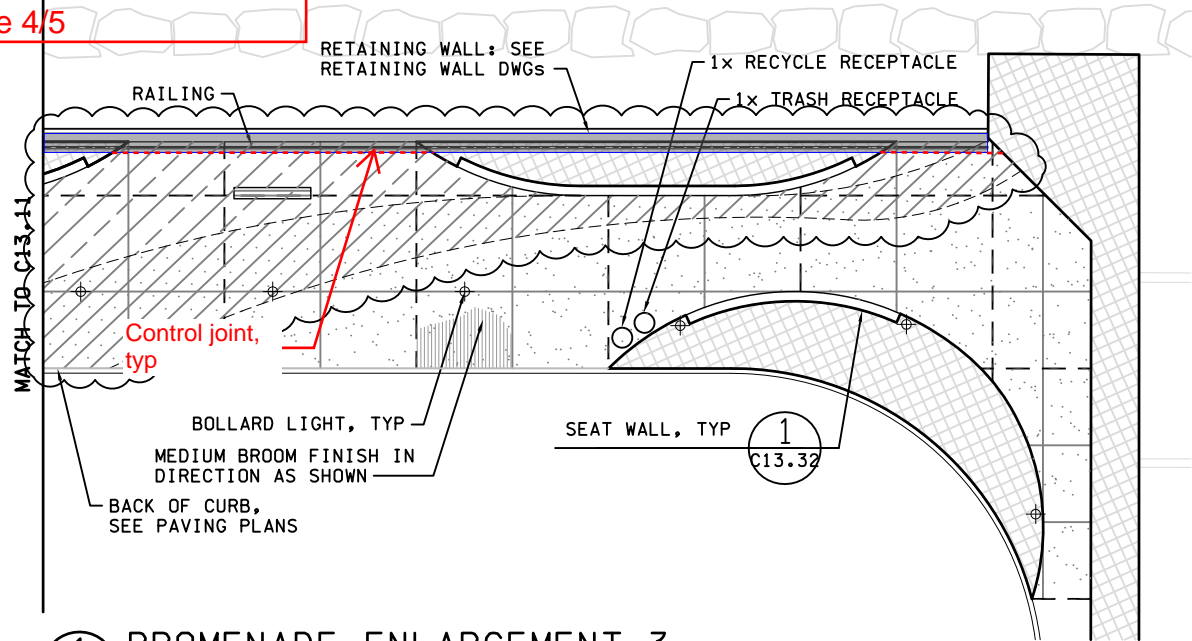


SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
URBAN DESIGN PLAN

C13.11  
SHEET  
OF  
SHEETS



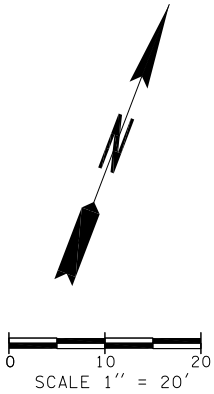
PROMENADE COPING  
RFI 350  
11/5/19  
Page 4/5



1 PROMENADE ENLARGEMENT 3  
C13.12 NOT TO SCALE

NOTES:

1. FOR PLANTING, SEE PLANTING PLANS, DWGS C09.40-C09.64.
2. FOR LAYOUT AND DIMENSIONING OF URBAN DESIGN ELEMENTS, SEE URBAN DESIGN DIMENSIONING PLANS, SHEETS C13.20 THROUGH C13.22.
3. FOR LAYOUT AND DIMENSIONING OF PAVEMENT FINISHES, SEE PAVEMENT FINISH DIMENSIONING PLANS, SHEETS C13.40 THROUGH C13.42.



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c13_12.dwg									
PRINTED: 2:20:54 PM	1/8/2019	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE:	09/21/18	BHADDOX					WA-2017-007-00		
DESIGNED BY:	J. VONG	12/22/17					REGION NO. STATE		
ENTERED BY:	B. HADDOX	12/22/17					10 WASH		
CHECKED BY:	D. KOONTS	12/22/17					JOB NUMBER		
MAR PROJ ENGR:	C. TORRES						14W121		
DIR TERM ENGR:	N. MCINTOSH		CHANGE ORDER	1/9/19	BH		CONTRACT NO.		
ASST SECRETARY:	A. SCARTON		REVISION		DATE	BY	00*****		

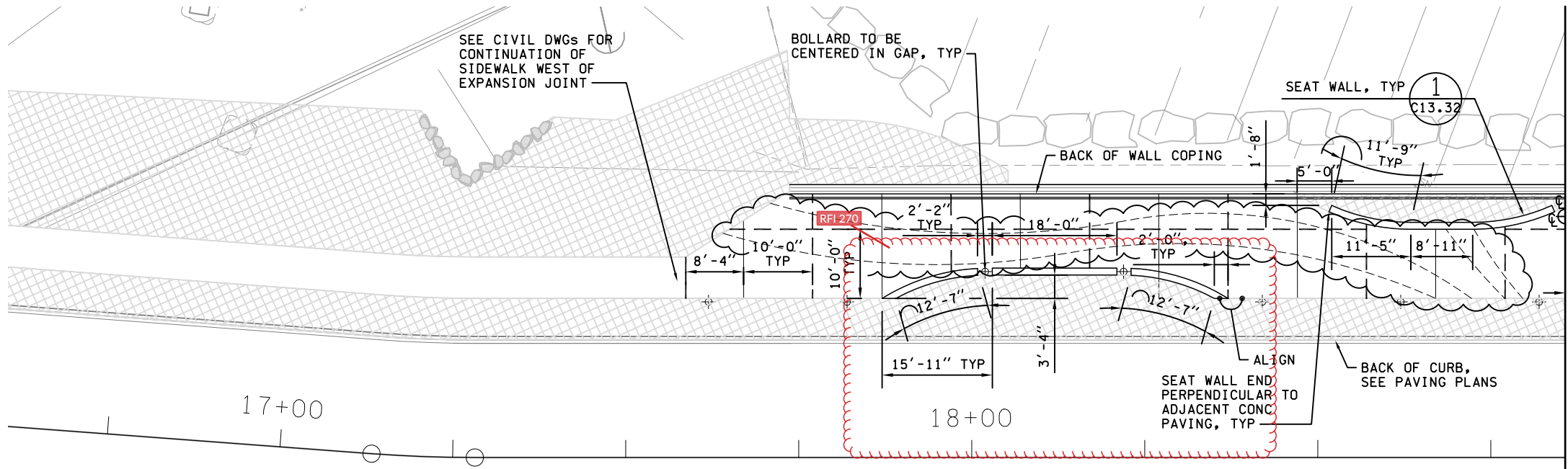


SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

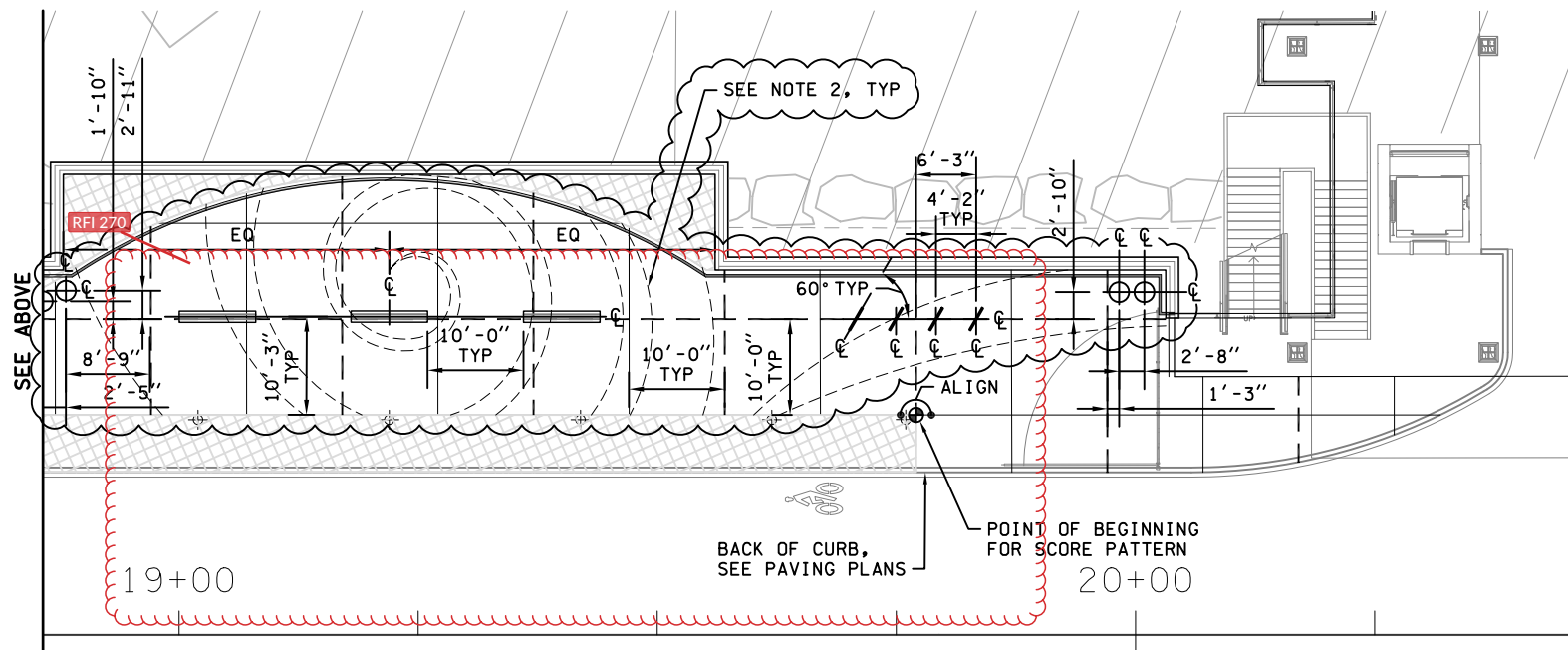
URBAN DESIGN PLAN

C13.12  
SHEET  
OF  
SHEETS





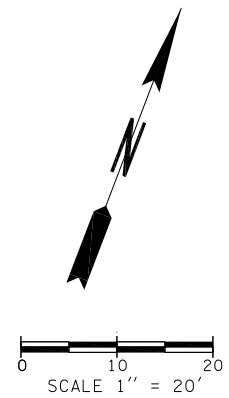
- NOTE:**
- FOR URBAN DESIGN SITE FURNISHING SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS, SEE SHEET C13.00. FOR URBAN DESIGN PLANS, SEE SHEETS C13.10-C13.12.
  - FOR LAYOUT AND DIMENSIONING OF PAVEMENT FINISHES, SEE PAVEMENT FINISH DIMENSIONING PLANS, SHEETS C13.40 THROUGH C13.42.



**RFI 270 -**

**1. WEST SEAT WALL NEAR WALL 5:**  
It is acceptable to revise the 15'-11" dimension to 16'-0" as proposed.

**2. SEAT WALLS ON SHEET C13.21:**  
Seat walls are typical of dimensions shown on the Plans as follows:  
Seat wall east of fishing pier shall match typical dimensions of 4'-8", 12'-6", 1'-8" and 12'-11" as shown on C13.21 for seat wall to west of fishing pier, with length of straight portion of seat wall connecting curved portions as shown.  
Seat wall east of view point is identical in size to the seat wall directly west of it (on the other side of the viewpoint). Seat wall shall match typical dimensions of 4'-8", 12'-6", 1'-8", 12'-11", and 3'-9" as shown on sheet C13.21. These seat walls shall be installed symmetrically about viewpoint.  
Contractor to verify coping dimensions revised per RFI #106 are accommodated for in locating concrete seat wall locations based on the originally specified coping size and location.  
Note that the typical 1'-8" dimension was an offset from back of the original coping size to seat wall corner



**1 PROMENADE ENLARGEMENT 1**  
C13.20 NOT TO SCALE

FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCNST\CADD\HBB\14w121c13_20.dwg				
PRINTED: 2:21:22 PM	1/8/2019	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 09/21/18		BHADDOX		WA-2017-007-00
DESIGNED BY: J. VONG	12/22/17			REGION NO. STATE
ENTERED BY: B. HADDOX	12/22/17			10 WASH
CHECKED BY: D. KOONTS	12/22/17			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CHANGE ORDER	1/9/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	00*****



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
URBAN DESIGN DIMENSIONING PLAN

C13.20  
SHEET  
311  
OF  
1521  
SHEETS

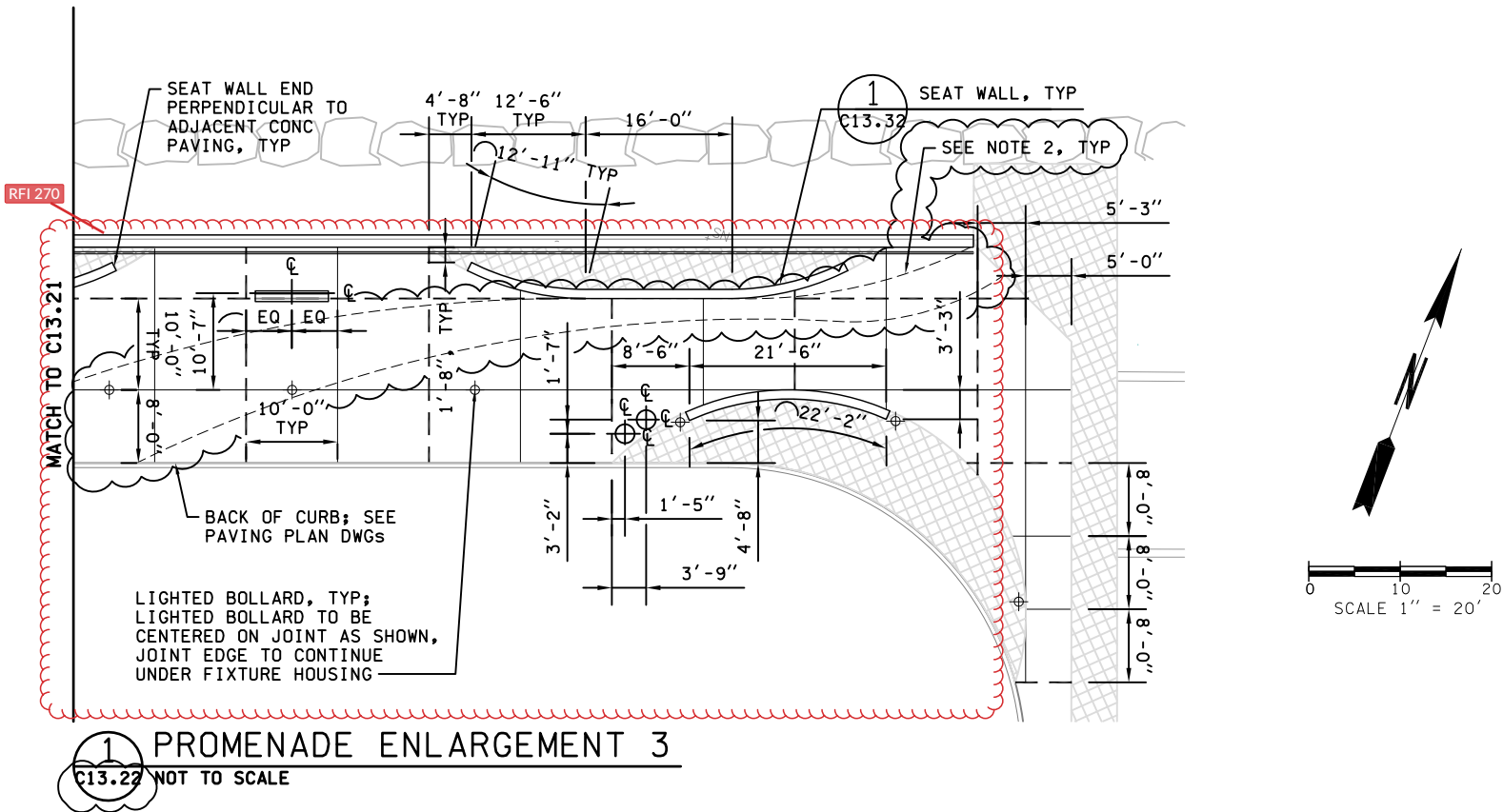










- NOTE:
- 1. FOR URBAN DESIGN SITE FURNISHING SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS, SEE SHEET C13.00. FOR URBAN DESIGN PLANS, SEE SHEETS C13.10-C13.12.
  - 2. FOR LAYOUT AND DIMENSIONING OF PAVEMENT FINISHES, SEE PAVEMENT FINISH DIMENSIONING PLANS, SHEETS C13.40 THROUGH C13.42.



RFI 270 -  
1.WEST SEAT WALL NEAR WALL 5:  
It is acceptable to revise the 15'-11" dimension to 16'-0" as proposed.  
2. SEAT WALLS ON SHEET C13.21:  
Seat walls are typical of dimensions shown on the Plans as follows:  
Seat wall east of fishing pier shall match typical dimensions of 4'-8", 12'-6", 1'-8" and 12'-11" as shown on C13.21 for seat wall to west of fishing pier, with length of straight portion of seat wall connecting curved portions as shown. Seat wall east of view point is identical in size to the seat wall directly west of it (on the other side of the viewpoint).  
Seat wall shall match typical dimensions of 4'-8", 12'-6", 1'-8", 12'-11", and 3'-9" as shown on sheet C13.21.  
These seat walls shall be installed symmetrically about viewpoint.

FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c13_22.dwg									
PRINTED: 9:02:40 AM	1/9/2019	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 09/21/18		BHADDOX				WA-2017-007-00			
DESIGNED BY: J. VONG	12/22/17					REGION NO. STATE			
ENTERED BY: B. HADDOX	12/22/17					10 WASH			
CHECKED BY: D. KOONTS	12/22/17					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO.			
ASST SECRETARY: A. SCARTON						00*****			
CHANGE ORDER		1/9/19	BH						
REVISION		DATE	BY						

 Washington State Department of Transportation WASHINGTON STATE FERRIES	SR525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		C13.22
	URBAN DESIGN DIMENSIONING PLAN		SHEET 313 OF 1521 SHEETS

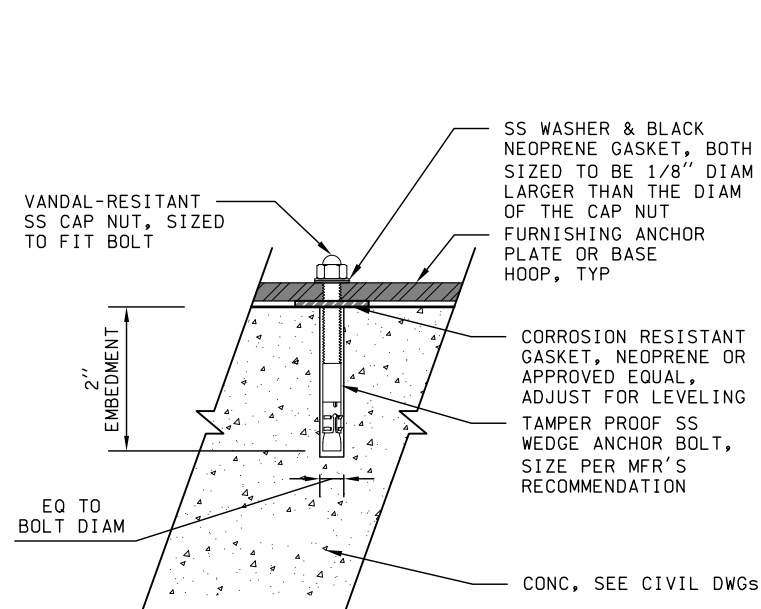


215 WESTLAKE AVE. NORTH  
SEATTLE, WA 98109  
206.892.3051 phone  
206.892.3245 fax



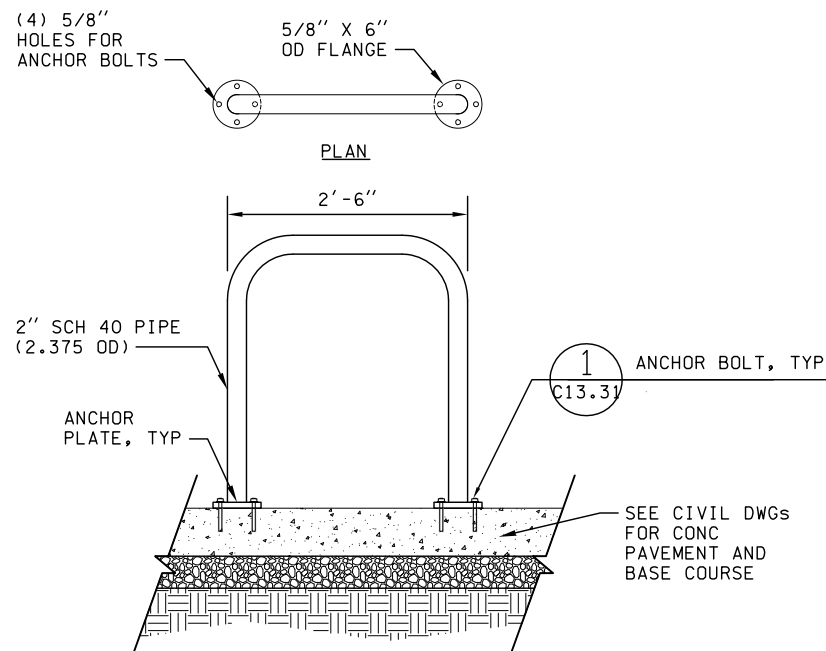






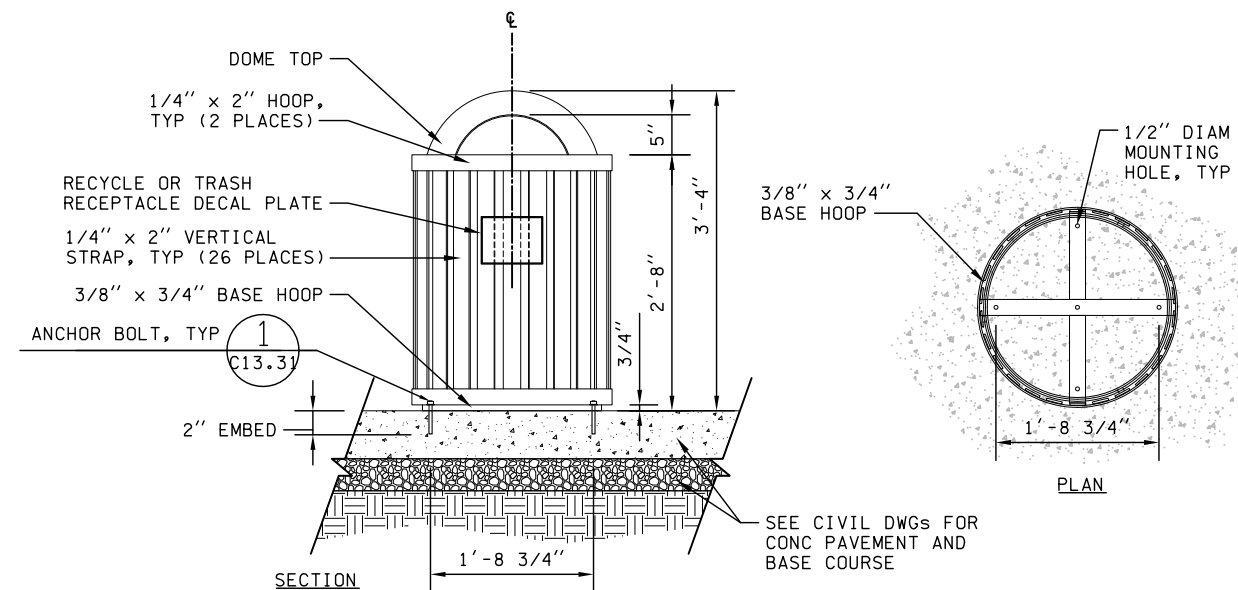
SECTION

**1 ANCHOR BOLT**  
C13.31 NOT TO SCALE



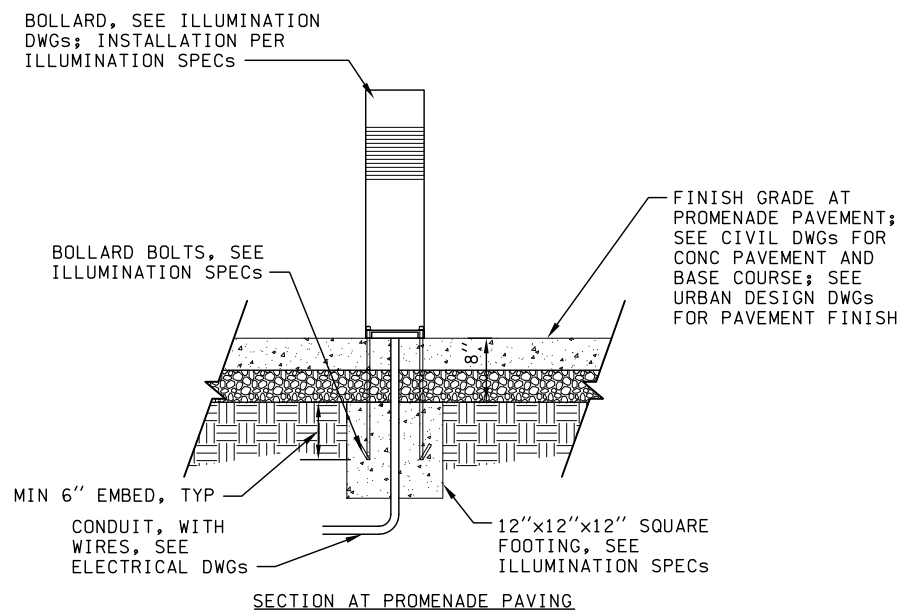
SECTION

**2 BIKE RACK**  
C13.00 NOT TO SCALE



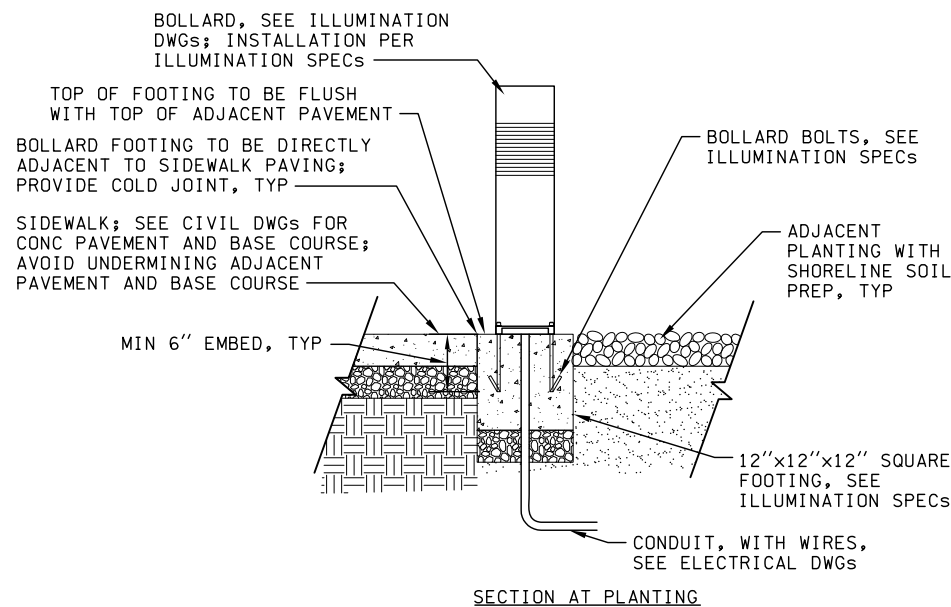
SECTION

**3 RECEPTACLE**  
C13.00 NOT TO SCALE



SECTION AT PROMENADE PAVING

**4 LIGHTED BOLLARD**  
C13.00 NOT TO SCALE



SECTION AT PLANTING



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c13_41.dlv				
PRINTED: 1:37:26 PM	1/15/2019	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE:	1/18/19	BHADDOX		WA-2017-007-00
DESIGNED BY:	J. VONG	1/18/19		REGION NO. STATE
ENTERED BY:	B. HADDOX	1/18/19		10 WASH
CHECKED BY:	D. KOONTZ	1/18/19		JOB NUMBER
MAR PROJ ENGR:	C. TORRES			18W121
DIR TERM ENGR:	N. MCINTOSH	CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY:	A. SCARTON	REVISION	DATE	BY
				00*****



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
URBAN DESIGN DETAILS

C13.31  
SHEET  
315  
OF  
1521  
SHEETS



RFI 350  
11/5/19  
Page 5/5

1. INSTALL SEAT WALL SUBBASE AND FOOTING AROUND PROMENADE RAILING FOOTING WITHOUT DISTURBING IT OR ITS SUBBASE WHERE PRESENT, SEE DETAIL 2 SHEET C13.42.
2. INSTALL PLANTING SOIL AND 3" STREAMBED COBBLE AT MAX 4:1 SLOPE.
3. WHERE SEATWALL FOOTING INTERSECTS WITH PROMENADE RAILING FOOTING, SEE DETAIL 2 SHEET C13.32.



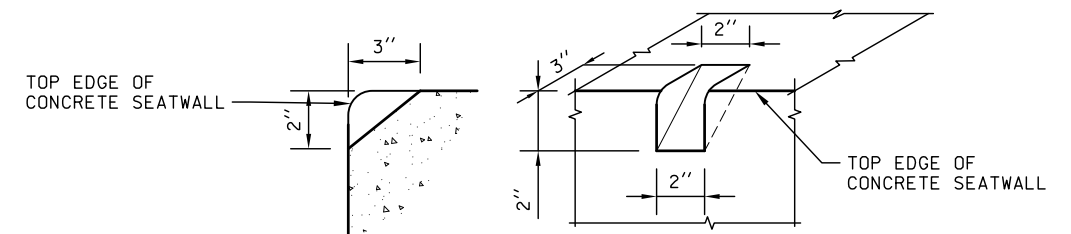
C13.10 NOT TO SCALE

C13.11  
C13.12  
C13.20  
C13.21  
C13.22



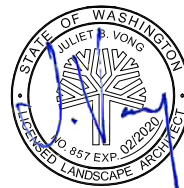
C13.32 NOT TO SCALE

1. FILL IN/PATCH ANY HOLES THAT APPEAR WITHIN SKATE DETERRENT NOTCH.
2. INSTALL NOTCHES ON ALL SIDES OF CONCRETE SEATWALLS.
3. SPACE NOTCHES MAX 3' OC UNLESS OTHERWISE NOTED ON DETAILS.



C13.32 NOT TO SCALE

FILE NAME: PW:\SF\Muk\iteo\14w121_FERRYTERMCONST\CADD\HBB\14w121c13.42.dlv									
PRINTED: 1:37:31 PM 1/15/2019		LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		BHADDOX					WA-2017-007-00		
DESIGNED BY: J. VONG		1/18/19					REGION NO. STATE		
ENTERED BY: B. HADDOX		1/18/19					10	WASH	
CHECKED BY: D. KOONTS		1/18/19					JOB NUMBER		
MAR PROJ ENGR: C. TORRES				CONFORMED PLANS		1/18/19	BH	18W121	
DIR TERM ENGR: N. MCINTOSH								CONTRACT NO.	
ASST SECRETARY: A. SCARTON				REVISION		DATE	BY	00*****	



**Washington State  
Department of Transportation**  
WASHINGTON STATE FERRIES

SR525
MUKILTEO FERRY TERMINAL (PHASE 2)
FERRY TERMINAL CONSTRUCTION

## URBAN DESIGN DETAILS

C13.32

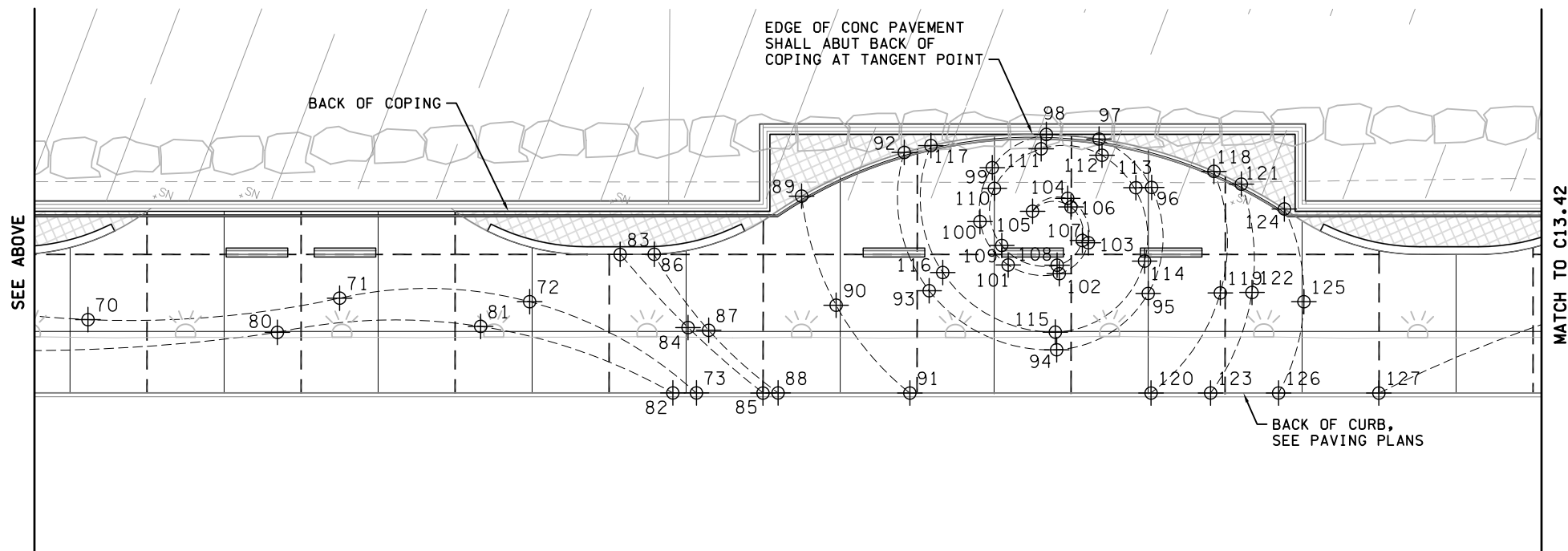
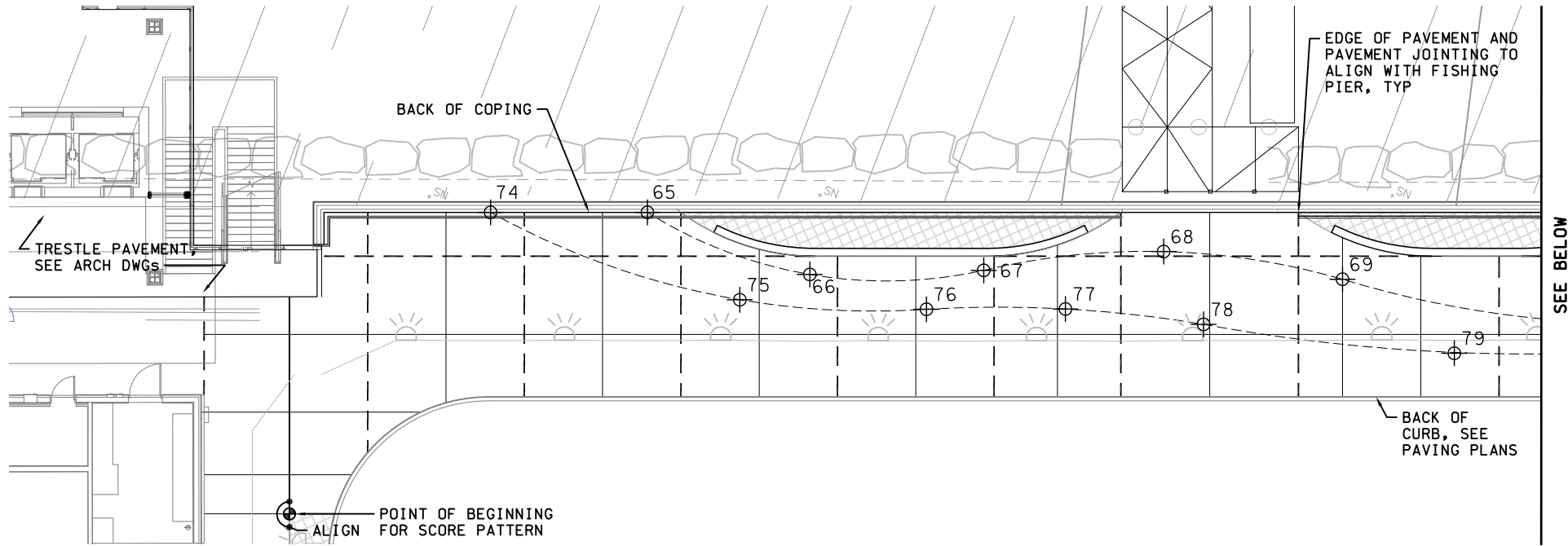
SHEET

F

## SHEETS







**1 PROMENADE ENLARGEMENT 2**  
C13.41 NOT TO SCALE

**NOTES:**

1. FOR URBAN DESIGN SITE FURNISHING SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS, SEE SHEET C13.00. FOR URBAN DESIGN PLANS, SEE SHEETS C13.10-C13.13. FOR URBAN DESIGN LAYOUT AND DIMENSIONING, SEE URBAN DESIGN DIMENSIONING PLANS, SHEETS C13.20 THROUGH C13.22.
2. LIMITS OF FINISHES SHALL BE ROUNDED WITHOUT STRAIGHT EDGES OR TANGENT LINES. LAYOUT OF CURVILINEAR EXPOSED & SEEDED AGGREGATE FINISHES SHALL BE REVIEWED AND APPROVED BY THE ENG PRIOR TO CONCRETE POUR.
3. PAVEMENT FINISHES SHALL BE FLUSH WITH ADJACENT SIDEWALK PAVEMENT, CURB, TRESTLE PAVEMENT, WALL COPING, & FISHING PIER.
4. FOR NORTHING/EASTING INFORMATION FOR THESE COORDINATE POINTS, SEE SHEET C13.42.



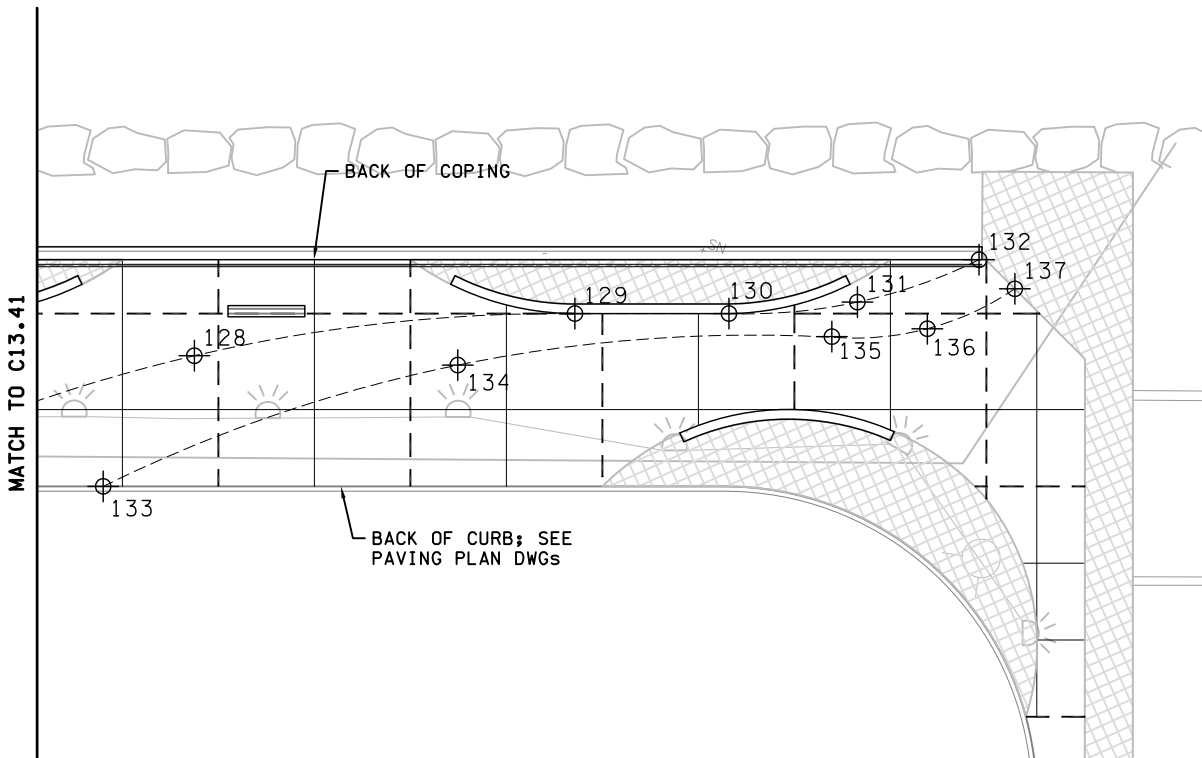
FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCONST\CADD\HBB\14w121c13_31.dwg					
PRINTED: 9:02:59 AM	1/9/2019	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE: 09/21/18		BHADDOX			WA-2017-007-00
DESIGNED BY: J. VONG	12/22/17				REGION NO. STATE
ENTERED BY: B. HADDOX	12/22/17				10 WASH
CHECKED BY: D. KOONTS	12/22/17				JOB NUMBER
MAR PROJ ENGR: C. TORRES					14W121
DIR TERM ENGR: N. MCINTOSH		CHANGE ORDER	1/9/19	BH	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PAVEMENT FINISH DIMENSIONING PLAN

C13.41  
SHEET  
318  
OF  
1521  
SHEETS





1 PROMENADE ENLARGEMENT 3  
C13.42 NOT TO SCALE

NOTES:

1. FOR URBAN DESIGN SITE FURNISHING SCHEDULE, LEGEND, NOTES, & ABBREVIATIONS, SEE SHEET C13.00. FOR URBAN DESIGN PLANS, SEE SHEETS C13.10-C13.13. FOR URBAN DESIGN LAYOUT AND DIMENSIONING, SEE URBAN DESIGN DIMENSIONING PLANS, SHEETS C13.20 THROUGH C13.22.
2. LIMITS OF FINISHES SHALL BE ROUNDED WITHOUT STRAIGHT EDGES OR TANGENT LINES. LAYOUT OF CURVILINEAR EXPOSED & SEEDED AGGREGATE FINISHES SHALL BE REVIEWED AND APPROVED BY THE ENG PRIOR TO CONCRETE POUR.
3. PAVEMENT FINISHES SHALL BE FLUSH WITH ADJACENT SIDEWALK PAVEMENT, CURB, TRESTLE PAVEMENT, WALL COPING, & FISHING PIER.

NORTHING/EASTING TABLE:

65	N 350081.1173	E 1281911.2616
66	N 350081.0846	E 1281933.4752
67	N 350089.4717	E 1281954.0446
68	N 350099.8941	E 1281974.6723
69	N 350104.7098	E 1281997.2842
70	N 350111.0385	E 1282029.4658
71	N 350125.2743	E 1282059.0219
72	N 350133.6206	E 1282082.2450
73	N 350130.2500	E 1282106.7038
74	N 350073.9924	E 1281892.5384
75	N 350074.8808	E 1281926.2665
76	N 350082.2251	E 1281948.9822
77	N 350088.5734	E 1281965.5620
78	N 350093.0122	E 1281982.7517
79	N 350100.9526	E 1282014.0010

80	N 350118.2462	E 1282053.0423
81	N 350128.3626	E 1282077.4386
82	N 350129.1594	E 1282103.8372
83	N 350143.5374	E 1282091.0463
84	N 350137.7997	E 1282102.6648
85	N 350133.3110	E 1282114.7859
86	N 350145.1358	E 1282095.1771
87	N 350138.4163	E 1282105.2928
88	N 350134.0204	E 1282116.6143
89	N 350158.9956	E 1282110.3816
90	N 350147.3509	E 1282119.6074
91	N 350140.0943	E 1282132.6115
92	N 350169.0394	E 1282120.8206
93	N 350153.4106	E 1282130.2349
94	N 350152.1261	E 1282148.4325

95	N 350163.1919	E 1282156.9433
96	N 350176.2189	E 1282152.4650
97	N 350179.6588	E 1282143.8474
98	N 350177.7840	E 1282137.2391
99	N 350171.2529	E 1282132.2048
100	N 350164.1505	E 1282133.2083
101	N 350160.1772	E 1282138.6328
102	N 350161.4828	E 1282145.2288
103	N 350166.5807	E 1282147.3368
104	N 350171.0219	E 1282142.7758
105	N 350167.8228	E 1282139.1107
106	N 350170.1280	E 1282143.5710
107	N 350166.5757	E 1282146.4994
108	N 350162.4207	E 1282144.5850
109	N 350162.2540	E 1282136.9500

110	N 350168.8415	E 1282133.4164
111	N 350175.8055	E 1282137.2685
112	N 350177.8362	E 1282144.9600
113	N 350175.4582	E 1282150.5574
114	N 350166.9534	E 1282155.0089
115	N 350154.2084	E 1282147.4601
116	N 350156.2489	E 1282131.0371
117	N 350171.1041	E 1282123.7419
118	N 350181.0457	E 1282159.2818
119	N 350166.5815	E 1282165.6736
120	N 350151.2374	E 1282161.8938
121	N 350180.7596	E 1282163.2006
122	N 350168.1095	E 1282169.4948
123	N 350153.9934	E 1282169.1141
124	N 350179.7366	E 1282169.5752

125	N 350169.3825	E 1282176.2248
126	N 350157.1302	E 1282177.3686
127	N 350161.7579	E 1282189.5401
128	N 350187.8207	E 1282219.7651
129	N 350206.0237	E 1282255.2562
130	N 350211.7918	E 1282270.2647
131	N 350217.6631	E 1282282.3410
132	N 350226.3256	E 1282292.8475
133	N 350171.7902	E 1282215.7446
134	N 350196.6725	E 1282245.7621
135	N 350213.2961	E 1282281.1288
136	N 350217.6040	E 1282290.1280
137	N 350224.7917	E 1282297.1814



FILE NAME: PW:\WSF\Mukilteo\14W121_FERRYTERMCNST\CADD\HBB\14w121c13_32.dwg				
PRINTED: 9:03:24 AM	1/9/2019	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 09/21/18		BHADDOX		WA-2017-007-00
DESIGNED BY: J. VONG	12/22/17			REGION NO. STATE
ENTERED BY: B. HADDOX	12/22/17			10 WASH
CHECKED BY: D. KOONTS	12/22/17			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CHANGE ORDER	1/9/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY
				00*****



SR525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PAVEMENT FINISH DIMENSIONING PLAN

C13.42  
SHEET  
319  
OF  
1521  
SHEETS

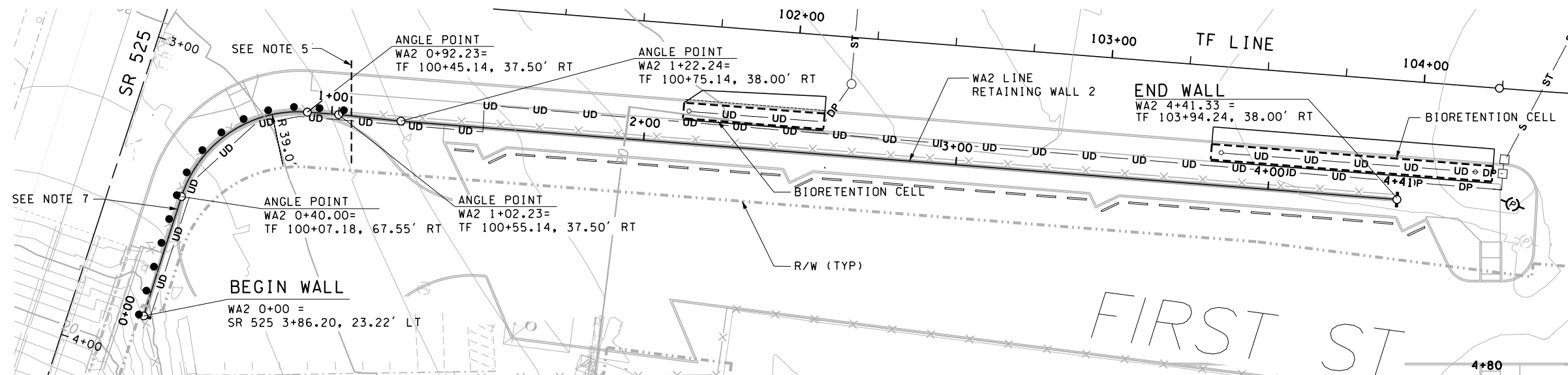




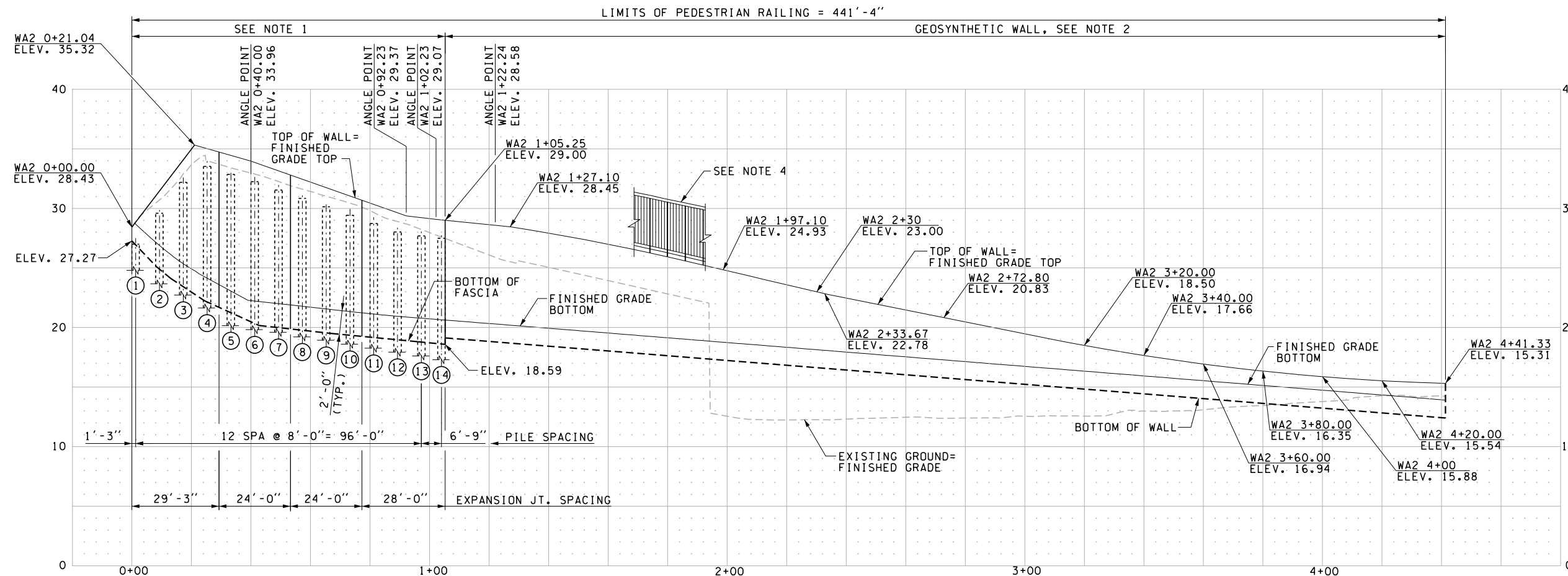


# GENERAL NOTES:

1. SEE SHEETS C15.23 AND C15.24 FOR SOLDIER PILE WALL DETAILS.
2. SEE SHEET C15.20 FOR GEOSYNTHETIC WALLS - TYPICAL SECTIONS.
3. MINIMUM SE WALL EMBEDMENT OF 1'-6".
4. SEE SHEET C15.29 FOR PEDESTRIAN RAILING DETAILS.
5. PROVIDE TEMPORARY SHORING BETWEEN WALL TYPES AS REQUIRED.
6. ⊗ - DENOTES SOLDIER PILE NO., SEE SOLDIER PILE SCHEDULE ON SHEET C15.23.
7. LIVE WATER MAIN SHALL BE BYPASSED PRIOR TO SOLDIER PILE WALL CONSTRUCTION. SEE SHEET C04.60.



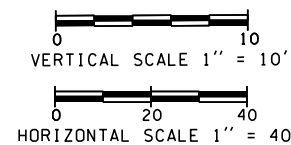
## RETAINING WALL 2 PLAN



## RETAINING WALL 2 PROFILE VIEW FROM FRONT OF WALL (FACING NORTH)

# LEGEND

- UD — UNDERDRAIN PIPE
- ST — STORM SEWER
- W — WATER
- BC — BC BURIED COMMUNICATIONS
- BP — BP BURIED POWER
- S — S — SANITARY SEWER
- ⊗ — PEDESTRIAN RAILING
- ⊗ — FIRE HYDRANT
- ⊗ — LUMINAIRE



FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\ \$FILES\$

PRINTED: 1:45:13 PM 1/24/2019

SUBMITTAL DATE: 1/18/19

DESIGNED BY: K. BICHICH

ENTERED BY: D. PERRY

CHECKED BY: G. CALLAHAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

LudwigRC

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

1/18/19

REVISION

DATE

BY

009321

009321

009321

009321

009321

009321

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

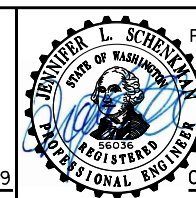
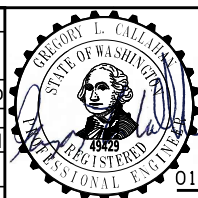
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321



FOR  
FINISHED  
GRADE  
ONLY

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

RETAINING WALL 2  
PLAN AND PROFILE

C15.11

SHEET

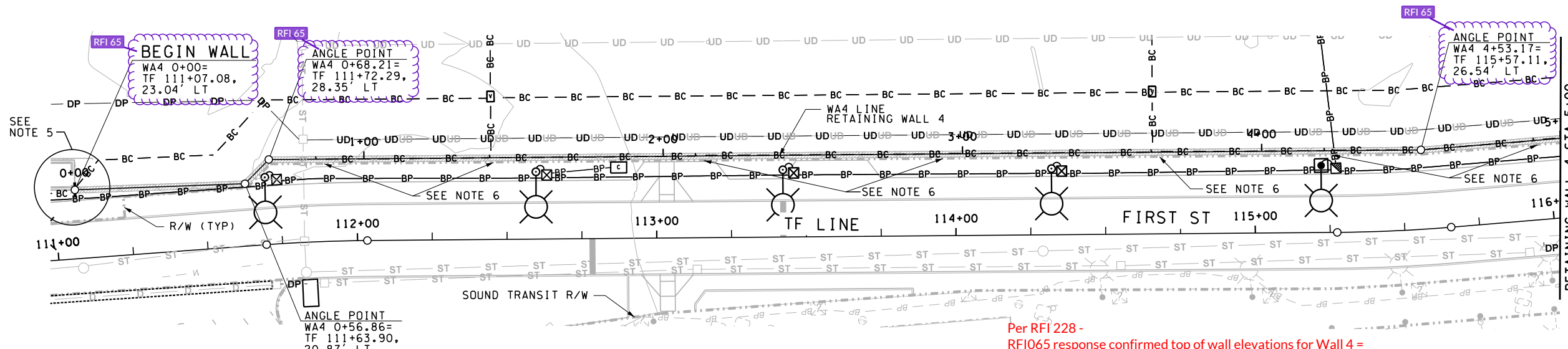
321

OF

1521

SHEETS



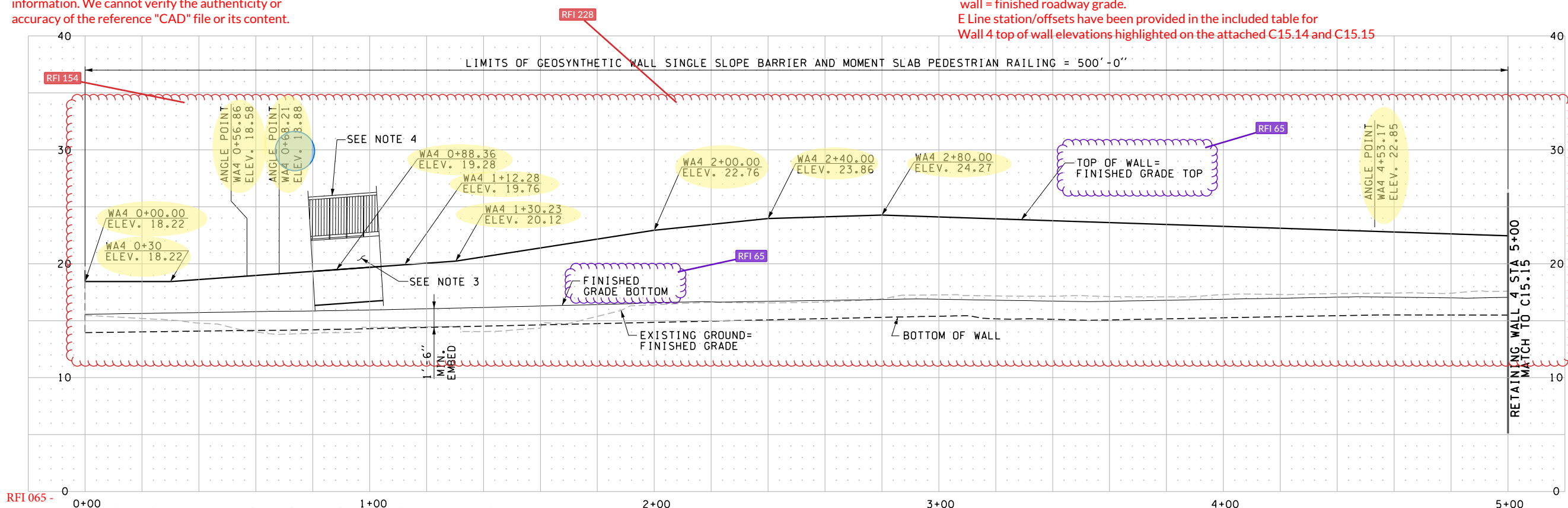


RFI 154 - the Elevations provided in the Contractor Plans are correct and the most current design information. We cannot verify the authenticity or accuracy of the reference "CAD" file or its content.

### RETAINING WALL 4 PLAN

Per RFI 228 - RFI065 response confirmed top of wall elevations for Wall 4 = finish grade top. RFI154 response confirmed top of wall elevations for Wall 4 provided in the Contract Plans were correct. Wall 4 top of wall = finished roadway grade. E Line station/offsets have been provided in the included table for Wall 4 top of wall elevations highlighted on the attached C15.14 and C15.15

- NOTES:**
- SEE SHEET C15.20 FOR GEOSYNTHETIC WALLS - TYPICAL SECTIONS.
  - MINIMUM WALL EMBEDMENT OF 1'-6".
  - SEE SHEETS C15.20 AND WSDOT STD. PLAN D-3.15-02 FOR GEOSYNTHETIC WALL SINGLE SLOPE BARRIER.
  - SEE SHEET C15.27 FOR MOMENT SLAB PEDESTRIAN RAILING DETAILS.
  - SEE SHEET C15.31 FOR WALL 4 TO EQUIPMENT BUILDING JOINT DETAILS.
  - SEE SHEET C15.28 FOR COMMUNICATION POLE SUPPORT DETAILS.

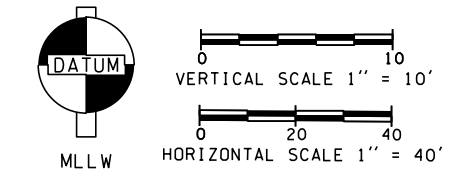


- LEGEND**
- UD — UNDERDRAIN PIPE
  - ST — STORM SEWER
  - W — WATER
  - BC — BURIED COMMUNICATIONS
  - BP — BURIED POWER
  - S — SANITARY SEWER
  - X — PEDESTRIAN RAILING
  - Fire Hydrant Symbol
  - Luminaire Symbol

- RFI 065 -
- Please see attached plan sheet C15.20 (SK 1) for clarification of Top of Wall elevations. (Jacobs)
  - Finish grade bottom elevations are a function of the landscape area cross slope. See attached plan sheets C06.42 (SK 2) and C06.43 (SK 3) for clarification. (Jacobs)
  - Communication poles are located on the retaining wall as shown on communication plans ES12.13 and ES12.14. Stationing and offset of the poles can be determined from the retaining wall plans C15.14 and C15.15. The necessary accuracy for the spacing of the poles along the length of the wall is +/- 3 inches. For example, pole P-11 can be scaled from drawing ES12.14 to be 19' 0" from the end of the wall. Therefore, the pole centerline shown on C15.28 for pole P-11 may be located anywhere between 18' 9" and 19' 3" from the end of the wall. (Ergosynch)
  - Sheets C10.13 (SK 4) and C10.14 (SK 5) show/call out the paving limits for the sidewalk. The stations and offsets on C15.14 and C15.15 are correct for the front face of wall fascia. (Jacobs)

### RETAINING WALL 4 PROFILE

VIEW FROM FRONT FACE OF WALL  
(FACING NORTH)



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				PRINTED: \$\$TIME\$\$ \$DATE\$		LAST PRINTED BY: \$USER\$		FED.AID PROJ.NO. WA-2017-007-00		REGION NO. STATE 10 WASH		JOB NUMBER 18W121		CONTRACT NO. 009321		DATE 01/18/19		BY									
SUBMITTAL DATE: 1/18/19				DESIGNED BY: K. BICHICH				ENTERED BY: D. PERRY				CHECKED BY: G. CALLAHAN				MAR PROJ ENGR: C. TORRES				DIR TERM ENGR: N. MCINTOSH				ASST SECRETARY: A. SCARTON			
CONFORMED PLANS				1/18/19				REVISION				DATE				BY											

**Washington State**  
Department of Transportation  
WASHINGTON STATE FERRIES

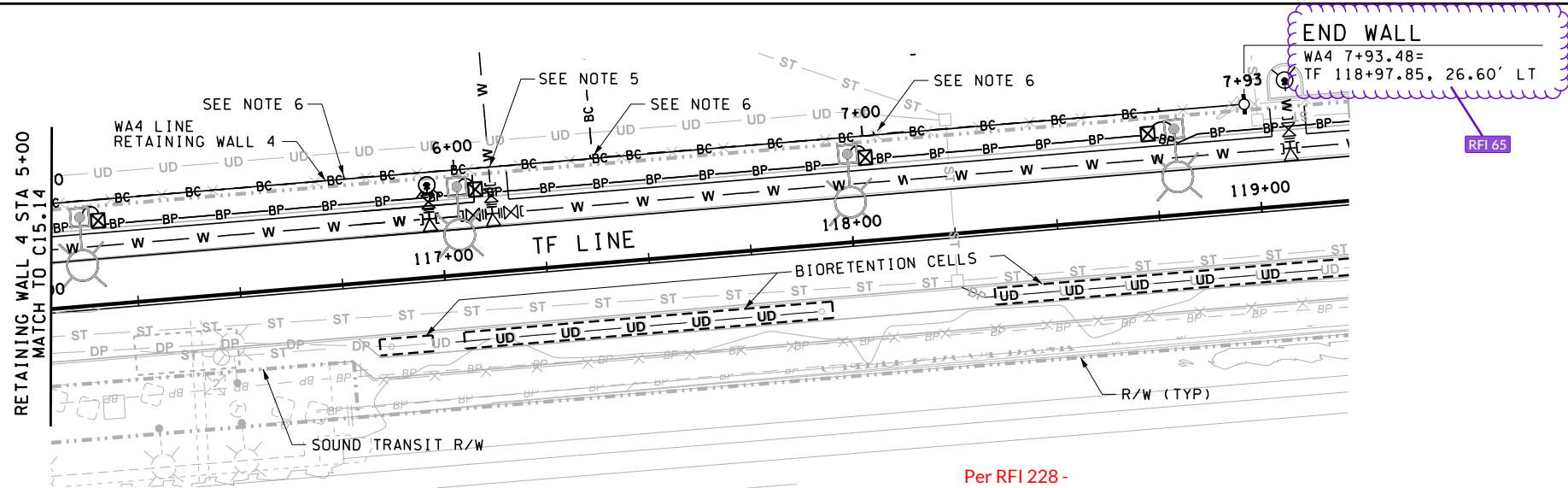
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

RETAINING WALL 4  
PLAN AND PROFILE

C15.14

SHEET 322 OF 1521 SHEETS



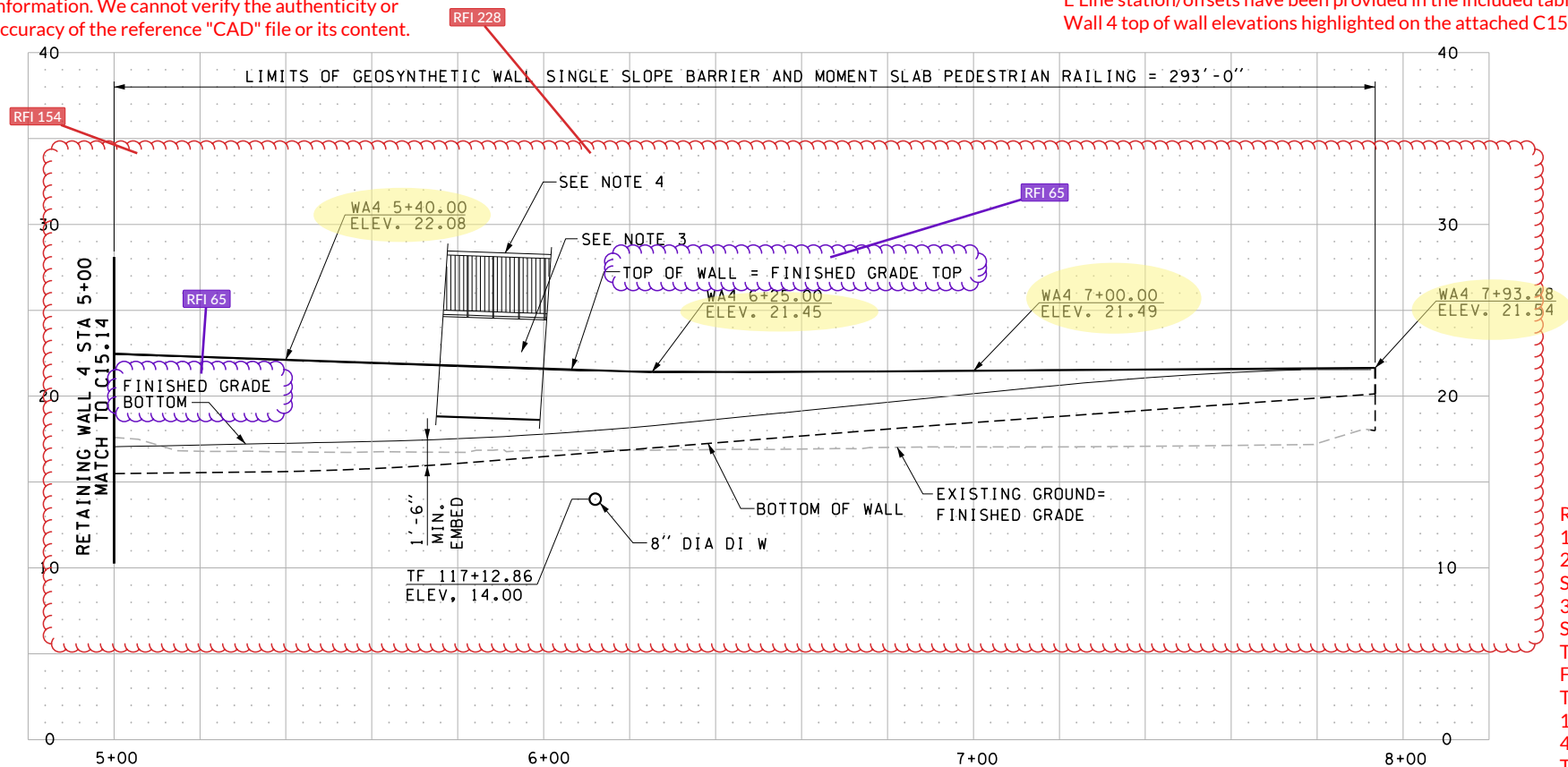


- NOTES:
- SEE SHEET C15.20 FOR GEOSYNTHETIC WALLS TYPICAL SECTIONS.
  - MINIMUM WALL EMBEDMENT OF 1'-6".
  - SEE SHEETS C15.20 AND WSDOT STD. PLAN D-3.15-02 FOR GEOSYNTHETIC WALL SINGLE SLOPE BARRIER.
  - SEE SHEET C15.27 FOR MOMENT SLAB PEDESTRIAN RAILING DETAILS.
  - SEE WATER AND SANITARY SEWER DETAILS, SHEET C08.53.
  - SEE SHEET C15.28 FOR WALL 4 - COMMUNICATIONS POLE SUPPORT DETAILS.

RFI 154 - the Elevations provided in the Contractor Plans are correct and the most current design information. We cannot verify the authenticity or accuracy of the reference "CAD" file or its content.

### RETAINING WALL 4 PLAN

Per RFI 228 - RFI065 response confirmed top of wall elevations for Wall 4 = finish grade top. RFI154 response confirmed top of wall elevations for Wall 4 provided in the Contract Plans were correct. Wall 4 top of wall = finished roadway grade. E Line station/offsets have been provided in the included table for Wall 4 top of wall elevations highlighted on the attached C15.14 and C15.15



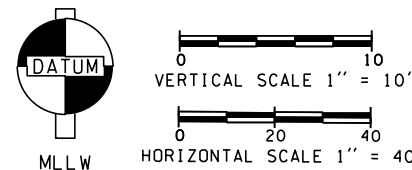
- LEGEND
- UD — UNDERDRAIN PIPE
  - ST — STORM SEWER
  - W — WATER
  - BC — BC BURIED COMMUNICATIONS
  - BP — BP BURIED POWER
  - S — S — SANITARY SEWER
  - X — X — PEDESTRIAN RAILING
  - Fire Hydrant Symbol
  - Luminaire Symbol

RFI 065 -

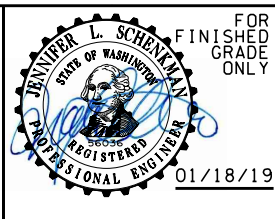
- Please see attached plan sheet C15.20 (SK 1) for clarification of Top of Wall elevations. (Jacobs)
- Finish grade bottom elevations are a function of the landscape area cross slope. See attached plan sheets C06.42 (SK 2) and C06.43 (SK 3) for clarification. (Jacobs)
- Communication poles are located on the retaining wall as shown on communication plans ES12.13 and ES12.14. Stationing and offset of the poles can be determined from the retaining wall plans C15.14 and C15.15. The necessary accuracy for the spacing of the poles along the length of the wall is +/- 3 inches. For example, pole P-11 can be scaled from drawing ES12.14 to be 19' 0" from the end of the wall. Therefore, the pole centerline shown on C15.28 for pole P-11 may be located anywhere between 18' 9" and 19' 3" from the end of the wall. (Ergosynch)
- Sheets C10.13 (SK 4) and C10.14 (SK 5) show/call out the paving limits for the sidewalk. The stations and offsets on C15.14 and C15.15 are correct for the front face of wall fascia. (Jacobs)

### RETAINING WALL 4 PROFILE

VIEW FROM FRONT FACE OF WALL  
(FACING NORTH)

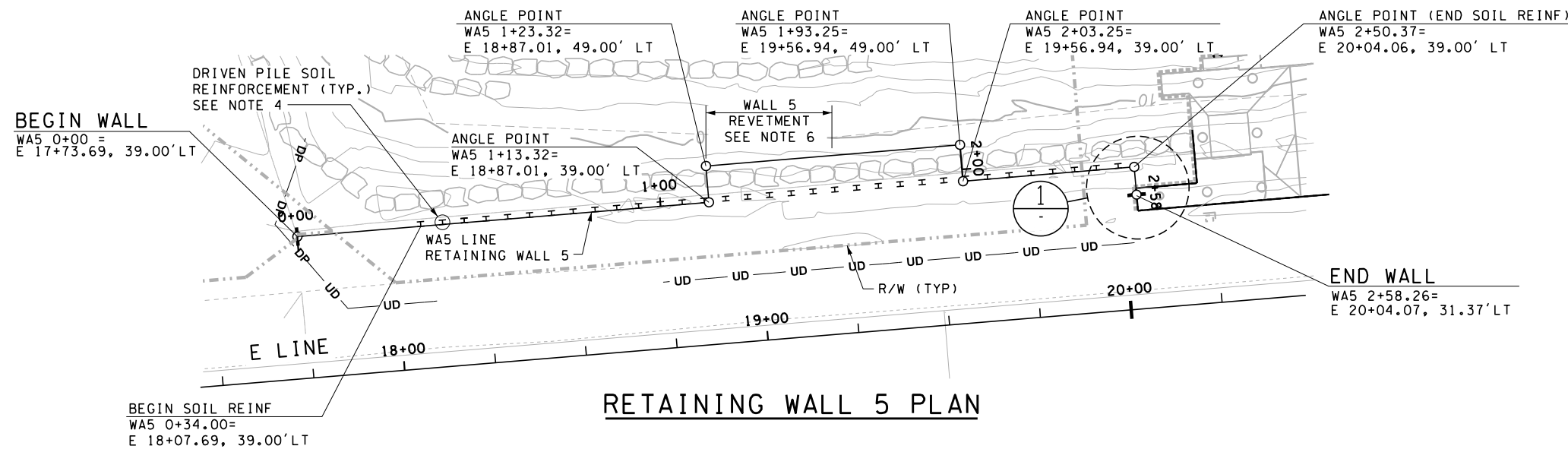


FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		
SUBMITTAL DATE: 1/18/19		#USERNAME#		
DESIGNED BY: K. BICHICH	1/18/19			
ENTERED BY: D. PERRY	1/18/19			
CHECKED BY: G. CALLAHAN	1/18/19			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON				
	CONFORMED PLANS	1/18/19		
	REVISION	DATE	BY	



SR 525		C15.15
MUKILTEO FERRY TERMINAL (PHASE 2)		
FERRY TERMINAL CONSTRUCTION		
RETAINING WALL 4 - CONTINUED		
PLAN AND PROFILE		
		SHEET
		323
		OF
		1521
		SHEETS





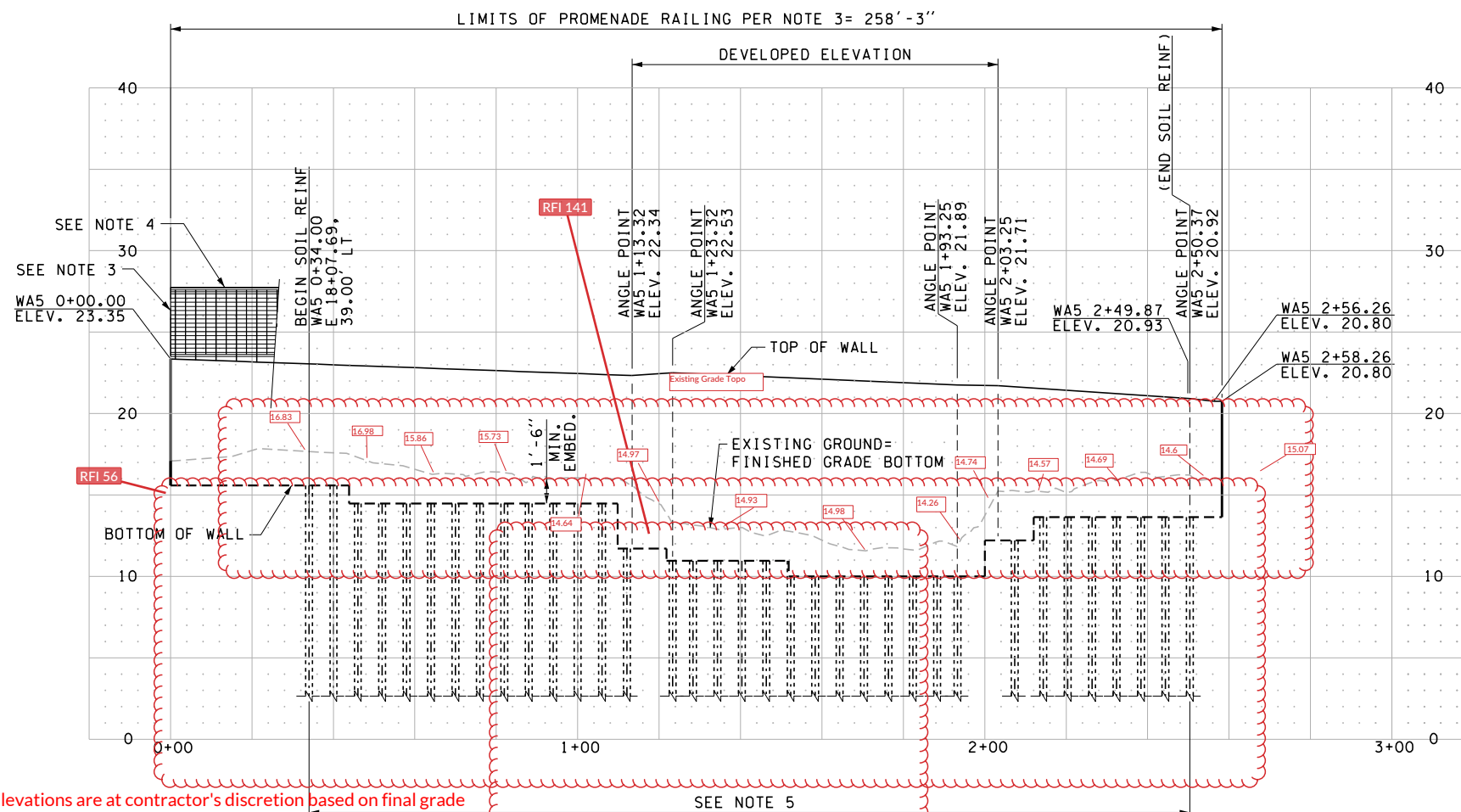
RETAINING WALL 5 PLAN

NOTES:

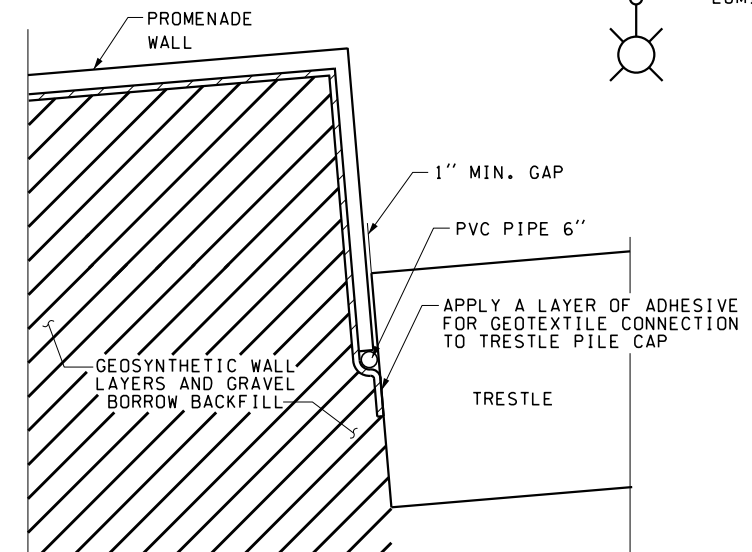
1. SEE SHEET C15.21 FOR PROMENADE WALLS - TYPICAL SECTION.
2. MINIMUM WALL EMBEDMENT OF 1'-6".
3. SEE SHEET C15.32 FOR PROMENADE RAILING DETAILS. SEE SHEET C15.30 FOR RAILING POST WITH COPING DETAILS.
4. SEE SHEET C15.21 FOR DRIVEN PILE SOIL REINFORCEMENT DETAILS.
5. PILES SPACED AT 6'-0" MAXIMUM.
6. SEE SHEET C15.34 FOR WALL 5 OVERLOOK REVETMENT DETAILS.

LEGEND

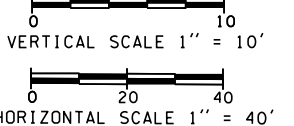
- UD UNDERDRAIN PIPE
- ST STORM SEWER
- W WATER
- BC BURIED COMMUNICATIONS
- BP BURIED POWER
- S SANITARY SEWER
- X PROMENADE RAILING
- FIRE HYDRANT
- LUMINAIRE



RETAINING WALL 5 PROFILE  
VIEW FROM FRONT FACE OF WALL  
(FACING SOUTH)



PROMENADE WALL TO  
TRESTLE CONNECTION  
1 1 C15.19 OPPOSITE HAND



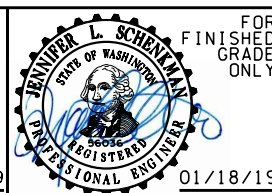
RFI 056 -  
Top piling elevations are at contractor's discretion based on final grade elevation. Minimum wall embedment of 1'-6" must be achieved per contract drawings. Piling embedment/length must be the minimum length shown on C15.21. Step-ups and step-downs are at contractor's discretion based on final grade elevation. Minimum wall embedment of 1'-6" must be achieved per contract drawings. Leveling pad elevation is at contractor's discretion based on final grade elevation. Minimum embedment of 1'-6" must be achieved per contract drawings.

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\FILES

PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:
SUBMITTAL DATE: 1/18/19		#USERNAME#
DESIGNED BY: K. BICHICH	1/18/19	
ENTERED BY: D. PERRY	1/18/19	
CHECKED BY: G. CALLAHAN	1/18/19	
MAR PROJ ENGR: C. TORRES		
DIR TERM ENGR: N. MCINTOSH		
ASST SECRETARY: A. SCARTON		

CONFORMED PLANS	1/18/19	DATE	BY
REVISION			

FED. AID	PROJ. NO.
WA-2017-007-00	
REGION NO. STATE	
10 WASH	
JOB NUMBER	
18W121	
CONTRACT NO.	
009321	



SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	C15.16
RETAINING WALL 5 PLAN AND PROFILE	SHEET 324 OF 1521 SHEETS



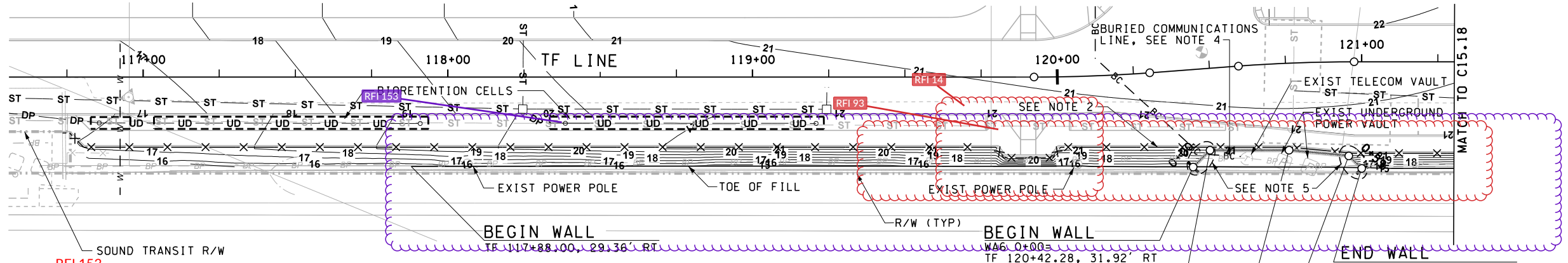
RFI 093 - The minimum bury of 6" is approved by Hart Crowser, the location of the wall over PUD's conduits are approved by Andra Flaherty of SnoPUD. PUD has stated that the primary conduit run from the vaults to the building shall be encased in red dyed CDF.

NOTES:

- SEE DRAWING C15.22 FOR WELDED WIRE FACE SE WALL SECTIONS AND DETAILS.
- SEE DRAWING C15.29 FOR PEDESTRIAN RAILING DETAILS.
- MINIMUM EMBEDMENT OF 2'-0".
- SEE SHEET ES12.14 FOR BURIED COMMUNICATIONS LINE DETAIL.
- SEE DRAWING C15.22 FOR WELDED WIRE FACE SE WALL TYPICAL TRANSITIONS.

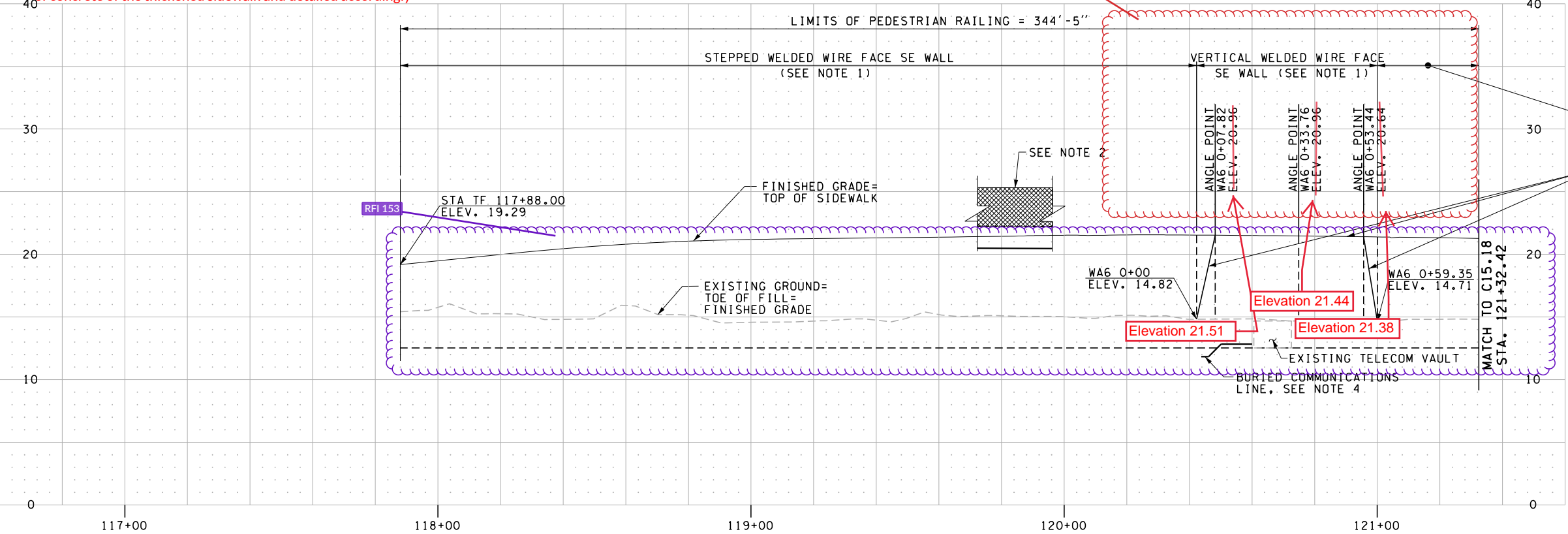
LEGEND

- UD UNDERDRAIN PIPE  
ST STORM SEWER  
W WATER  
BC BC BURIED COMMUNICATIONS  
BP BURIED POWER  
S SANITARY SEWER  
X PEDESTRIAN RAILING  
FIRE HYDRANT  
LUMINAIRE



RFI 153-  
•Concrete anchors will need to be designed to resist the same pedestrian loading as the Handrail Post per AASHTO  
•The proposed 6" thickened sidewalk edge will need to be reinforced with steel rebar  
•Concrete anchors will need to be designed for the strength of concrete of the thickened sidewalk and detailed accordingly

WALL 6 PLAN



RFI 014  
The stepped face of Wall 6 shall have topsoil as called out on C15.22 and shall be vegetated as called out on the Planting Plans.  
See next sheet points that correspond with the following information:  
Point Station Offset Elevation  
1 119+80.70 22.50' RT 21.45  
2 119+82.95 25.50' RT 21.49  
3 119+97.69 25.53' RT 21.53  
4 119+99.86 22.56' RT 21.51  
Note: Station/Off and elevations taken at back of sidewalk.  
Plan sheet C15.17 (attached) shows updated Wall 6 elevations in profile view. Elevations have been updated to reflect  
Back of Sidewalk = Finished Grade. Profile provided for Back of Sidewalk is correct. Station/offset for WA-6 is correct.

WALL 6 PROFILE  
VIEW FROM FRONT FACE OF WALL  
(FACING NORTH)

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

WALL 6  
PLAN AND PROFILE

C15.17

SHEET  
325  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\ \$FILES\$

PRINTED: \$\$TIME\$\$ \$\$DATE\$\$  
SUBMITTAL DATE: 1/18/19  
DESIGNED BY: K. BICHICH  
ENTERED BY: D. PERRY  
CHECKED BY: G. CALLAHAN  
MAR PROJ ENGR: C. TORRES  
DIR TERM ENGR: N. MCINTOSH  
ASST SECRETARY: A. SCARTON

LAST PRINTED BY: \$USERNAME\$  
CONFORMED PLANS  
REVISION  
DATE  
BY

FED.AID  
PROJ.NO.  
WA-2017-007-00  
REGION NO. STATE  
10 WASH  
JOB NUMBER  
18W121  
CONTRACT NO.  
009321



FOR  
FINISHED  
GRADE  
ONLY



NOTES:

1. SEE DRAWING C15.22 FOR WELDED WIRE FACE SE WALL SECTIONS AND DETAILS.
2. SEE DRAWING C15.29 FOR PEDESTRIAN RAILING DETAILS.
3. MINIMUM EMBEDMENT OF 2'-0".

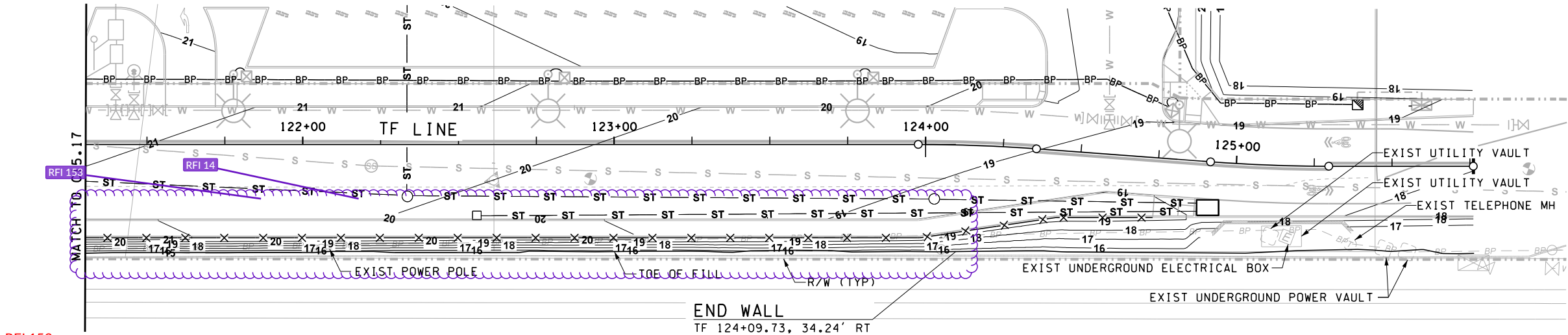
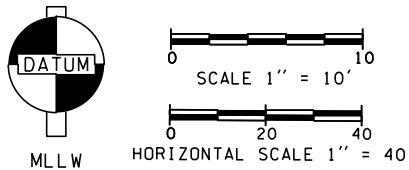
LEGEND

- UD — UNDERDRAIN PIPE  
— ST — STORM SEWER  
— W — WATER  
— BC — BC BURIED COMMUNICATIONS  
— BP — BP BURIED POWER  
— S — S — SANITARY SEWER  
— X — X — PEDESTRIAN RAILING  
FIRE HYDRANT  
LUMINAIRE

RFI 014  
The stepped face of Wall 6 shall have topsoil as called out on C15.22 and shall be vegetated as called out on the Planting Plans.  
See next sheet points that correspond with the following information:

Point	Station	Offset	Elevation
1	119+80.70		22.50' RT 21.45
2	119+82.95		25.50' RT 21.49
3	119+97.69		25.53' RT 21.53
4	119+99.86		22.56' RT 21.51

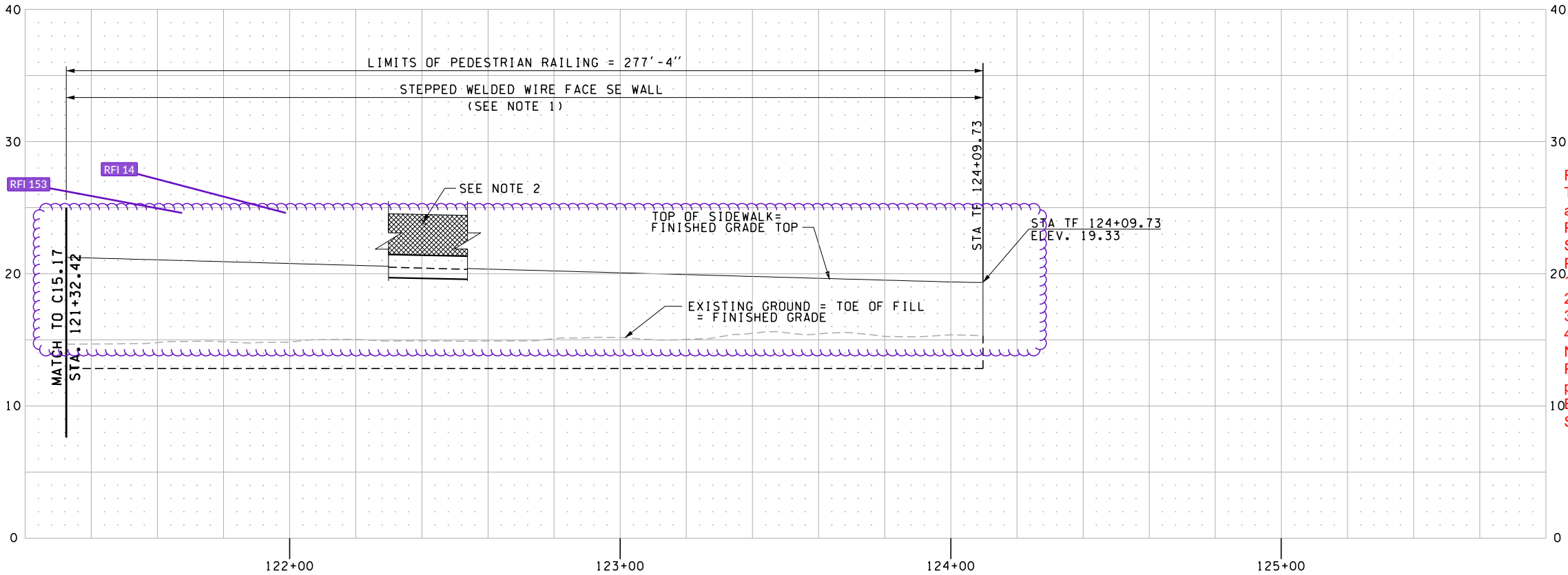
Note: Station/Off and elevations taken at back of sidewalk.  
Plan sheet C15.17 (attached) shows updated Wall 6 elevations in profile view. Elevations have been updated to reflect  
Back of Sidewalk = Finished Grade. Profile provided for Back of Sidewalk is correct. Station/offset for WA-6 is correct.



RFI 153 -

- Concrete anchors will need to be designed to resist the same pedestrian loading as the Handrail Post per AASHTO
- The proposed 6" thickened sidewalk edge will need to be reinforced with steel rebar
- Concrete anchors will need to be designed for the strength of concrete of the thickened sidewalk and detailed accordingly

WALL 6 PLAN



WALL 6 PROFILE

VIEW FROM FRONT FACE OF WALL (FACING NORTH)

JACOBS

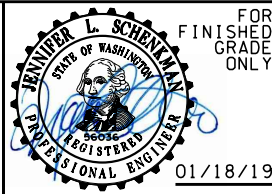


Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

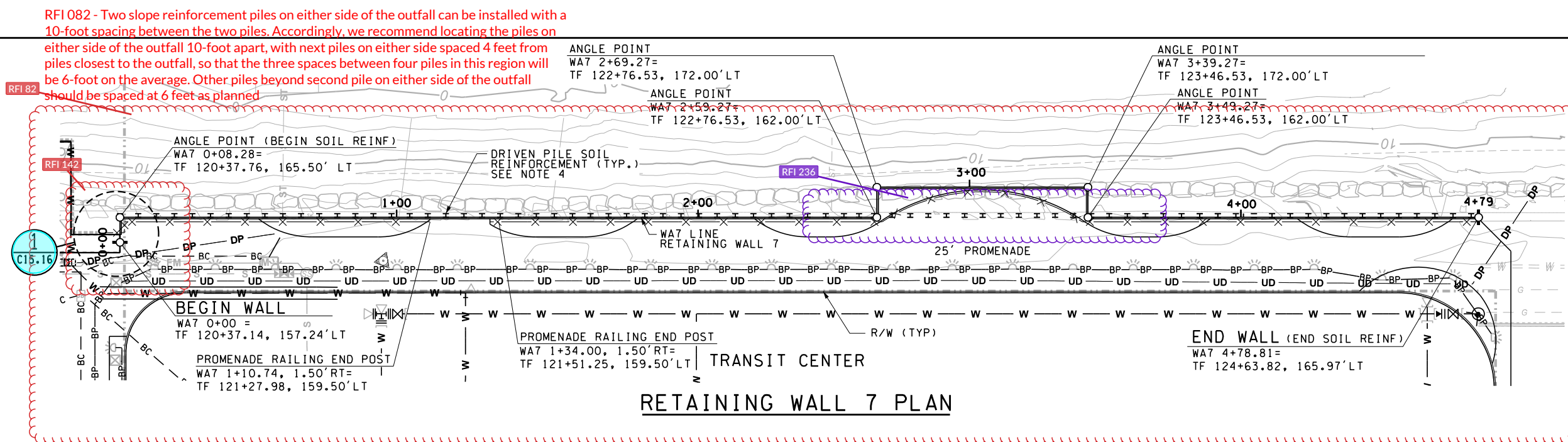
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
WALL 6 - CONTINUED  
PLAN AND PROFILE

C15.18  
SHEET  
326  
OF  
1521  
SHEETS

FILE NAME: WSW\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: K. BICHICH	1/18/19					REGION NO. STATE	10	WASH	
ENTERED BY: D. PERRY	1/18/19					JOB NUMBER	18W121		
CHECKED BY: G. CALLAHAN	1/18/19					CONTRACT NO.	009321		
MAR PROJ ENGR: C. TORRES									
DIR TERM ENGR: N. MCINTOSH									
ASST SECRETARY: A. SCARTON									
		CONFORMED PLANS	1/18/19						
		REVISION	DATE	BY					

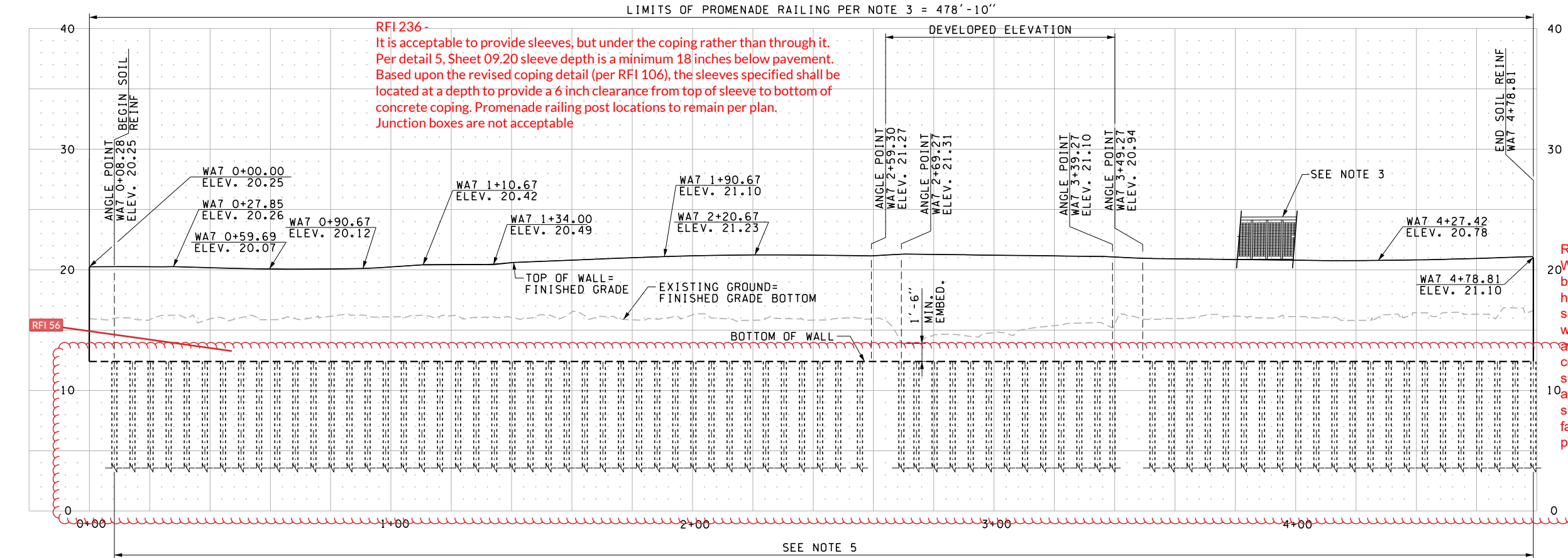






- NOTES:**
- SEE SHEET C15.21 FOR PROMENADE WALLS - TYPICAL SECTION.
  - MINIMUM WALL EMBEDMENT OF 1'-6".
  - SEE SHEET C15.32 FOR PROMENADE RAILING DETAILS. SEE SHEET C15.30 FOR RAILING POST WITH COPING DETAIL.
  - SEE SHEET C15.21 FOR DRIVEN PILE SOIL REINFORCEMENT DETAILS.
  - PILES SPACED AT 6'-0" MAXIMUM.
  - CL OF PROMENADE RAILING END POST SHALL ALIGN WITH CL OF FISHING PIER END POST PER FISHING PIER DRAWINGS. CONTACT ENGINEER FOR GUIDANCE IF POSTS WILL NOT ALIGN. VERIFY PRIOR TO CONSTRUCTING RAILING.

- LEGEND**
- UD UNDERDRAIN PIPE
  - ST STORM SEWER
  - W WATER
  - BC BC BURIED COMMUNICATIONS
  - BP BURIED POWER
  - S S - SANITARY SEWER
  - PROMENADE RAILING
  - FIRE HYDRANT
  - LUMINAIRE



RFI 142 -  
We recommend having the MSE wall locally setback behind the existing manhole, and have the CIP fascia horizontally bridge over the manhole. On the two inner sides (west and east of the manhole) where the MSE wall face is set back and then brought forward to normal alignment, "bedsheet" folding should be placed to contain the soil within the reinforced zone. The annular space around the manhole in the set back MSE wall area can be backfilled with CDF. Placement of CDF should occur before removal of the formwork for CIP fascia in front of the manhole to not have the green CDF push against the fascia.

RFI 056 -  
Top piling elevations are at contractor's discretion based on final grade elevation. Minimum wall embedment of 1'-6" must be achieved per contract drawings. Piling embedment/length must be the minimum length shown on C15.21 Step-ups and step-downs are at contractor's discretion based on final grade elevation. Minimum wall embedment of 1'-6" must be achieved per contract drawings. Leveling pad elevation is at contractor's discretion based on final grade elevation. Minimum embedment of 1'-6" must be achieved per contract drawings.

## RETAINING WALL 7 PROFILE

VIEW FROM FRONT FACE OF WALL  
(FACING SOUTH)

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\FILES\$			
PRINTED: \$TIME\$	\$DATE\$	LAST PRINTED BY:	
SUBMITTAL DATE: 1/18/19		USER NAME:	
DESIGNED BY: K. BICHICH	1/18/19		
ENTERED BY: D. PERRY	1/18/19		
CHECKED BY: G. CALLAHAN	1/18/19		
MAR PROJ ENGR: C. TORRES			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19
ASST SECRETARY: A. SCARTON		REVISION	DATE BY

FOR FINISHED GRADE ONLY

**JACOBS**

**Washington State**  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	C15.19
RETAINING WALL 7 PLAN AND PROFILE	SHEET 327 OF 1521 SHEETS







FRONT FACE OF CAST-IN-PLACE FASCIA FOR GEOSYNTHETIC WALL = WALL ALIGNMENT & WORK LINE

RFI - 106 - Cast in place coping as monolithic pour to fascia panel placement. With 1'-6" set back from face of coping to center of sleeve, applies only to walls 5&7  
The 1'-0" set back for walls 1&2 have been previously approved

RFI 53

NOTES:

RFI 26

1. SEE WSDOT STD. PLAN D-3.09-00, GEOSYNTHETIC WALL TYPE 1
2. SEE WSDOT STD. PLAN D-3.10-01, PERMANENT GEOSYNTHETIC RETAINING WALL WITH CAST-IN-PLACE FASCIA ALTERNATIVE.
3. SEE SHEET C15.16 AND C15.19 FOR DRIVEN PILE SOIL REINFORCEMENT LIMITS.

For RFI 12 & 53 Refer to page C15.20 for comments.

RFI 026 - The cast-in-place concrete fascia shall have vertical construction joints spaced at 24'-0" on center as noted in Std. Plan D-3.10. The construction joints shall have 1/2" premolded joint filler installed in each joint as shown on Std. Plan D-10.45.

RFI 12

SEE SHEET C15.30 FOR COPING DETAILS

TOP OF WALL ELEVATION

SEE SHEET C15.32 FOR PROMENADE RAILING DETAILS

SEE SHEET C15.30 FOR RAILING POST DETAILS

FINISHED PROMENADE SIDEWALK GRADE

VARIES

CEMENT BACKFILL OR CONCRETE

RFI 53

FRONT FACE OF CAST-IN-PLACE CONCRETE FASCIA FOR GEOSYNTHETIC WALL, SEE NOTE 2

SIMULATED EXPOSED AGGREGATE FINISH 3/4" THICK

EXISTING REVETMENT SEE NOTE 2 ON SHEET C15.34

RFI 142

Refer to C15.19 for RFI 142 Notes/comments.

PILE LENGTH, L

WALL 5: L=35'  
WALL 7: L=36'

HP18X181 DRIVEN PILE SOIL REINFORCEMENT

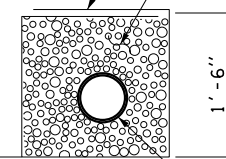
20'-0"  
GEOSYNTHETIC REINFORCEMENT LENGTH, SEE NOTE 1

TYPICAL CROSS SECTION - WALLS 5 & 7 -  
PERMANENT GEOSYNTHETIC WALL

NOT TO SCALE

VARIES  
APPROXIMATE LOCATION OF IMPERVIOUS LAYER. SEE SHEET C07.49

CONSTRUCTION GEOTEXTILE FOR UNDERGROUND DRAINAGE  
GRAVEL BACKFILL FOR DRAIN



6" PERFORATED UNDERDRAIN PIPE

Refer to C15.19 for RFI 056 notes/comments.

RFI 205

See next page, C15.21 B for RFI 205

RFI 56

BOTTOM OF WALL

SEE SHEETS C15.16 AND C15.34 FOR LIMITS AND DETAILS OF REVETMENT TOE PROTECTION

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
PROMENADE WALLS  
TYPICAL SECTION

C15.21A

SHEET  
329  
OF  
1521  
SHEETS

FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\FILES

PRINTED: \$\$TIME\$\$ \$\$DATE\$\$

SUBMITTAL DATE: 1/18/19

DESIGNED BY: K. BICHICH

ENTERED BY: D. PERRY

CHECKED BY: G. CALLAHAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

REVISION

1/18/19

DATE

BY

FED.AID PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321



01/18/19



## RFI 205

FRONT FACE OF CAST-IN-PLACE  
FASCIA FOR GEOSYNTHETIC WALL =  
WALL ALIGNMENT & WORK LINE  $\longrightarrow$  1' - 6" MIN.

SEE SHEET C15.30  
FOR COPING  
DETAILS

TOP OF WALL  
ELEVATION—

— SEE SHEET C15.32 FOR PROMENADE  
RAILING DETAILS

✓ SEE SHEET C15.30 FOR RAILING  
POST DETAILS

— FINISHED PROMENADE  
SIDEWALK GRADE

VARIES

— CEMENT BACKFILL OR  
CONCRETE

6" DI class 52 casing cast into wall.

3" IPS dia.  
HDPE DR 9.0

FRONT FACE  
OF  
CAST-IN-PLA  
CONCRETE  
FASCIA FOR  
GEOSYNTHET  
WALL, SEE  
NOTE

SIMULATED  
EXPOSED  
AGGREGATE  
FINISH  $\frac{3}{4}$ "  
THICK —

FINISHED GR  
AT WALL FAC

EXISTING REVETMENT  
SEE NOTE 2 ON  
SHEET C15.34

BOTTOM OF  
WALL \_\_\_\_\_

SEE SHEETS —  
C15.16 AND C15.34  
FOR LIMITS AND  
DETAILS OF REVETMENT  
TOE PROTECTION

PILE LENGTH, L
WALL 5: L=35'
WALL 7: L=36'

— HP18x181 DRIVEN PILE  
SOIL REINFORCEMENT

20' - 0"

GEOSYNTHETIC REINFORCEMENT LENGTH, SEE NOTE 1

TYPICAL CROSS SECTION - WALLS 5 & 7 -  
PERMANENT GEOSYNTHETIC WALL

NOT TO SCALE

NOTES:

1. SEE WSDOT STD. PLAN D-3.09-00,  
GEOSYNTHETIC WALL TYPE 1.
2. SEE WSDOT STD. PLAN D-3.10-01,  
PERMANENT GEOSYNTHETIC RETAINING  
WALL WITH CAST-IN-PLACE FASCIA  
ALTERNATIVE.
3. SEE SHEET C15.16 AND C15.19 FOR DRIVEN  
PILE SOIL REINFORCEMENT LIMITS.

✓ CURB AND GUTTER

VARIES

APPROXIMATE  
LOCATION OF  
IMPERVIOUS  
LAYER. SEE  
SHEET C07.49

CONSTRUCTION  
GEOTEXTILE FOR  
UNDERGROUND  
DRAINAGE

GRAVEL BACKFILL  
FOR DRAIN

1' - 6"

— 6" PERFORATED  
UNDERDRAIN PIPE

**JACOBS®**



**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

PROMENADE WALLS  
TYPICAL SECTION

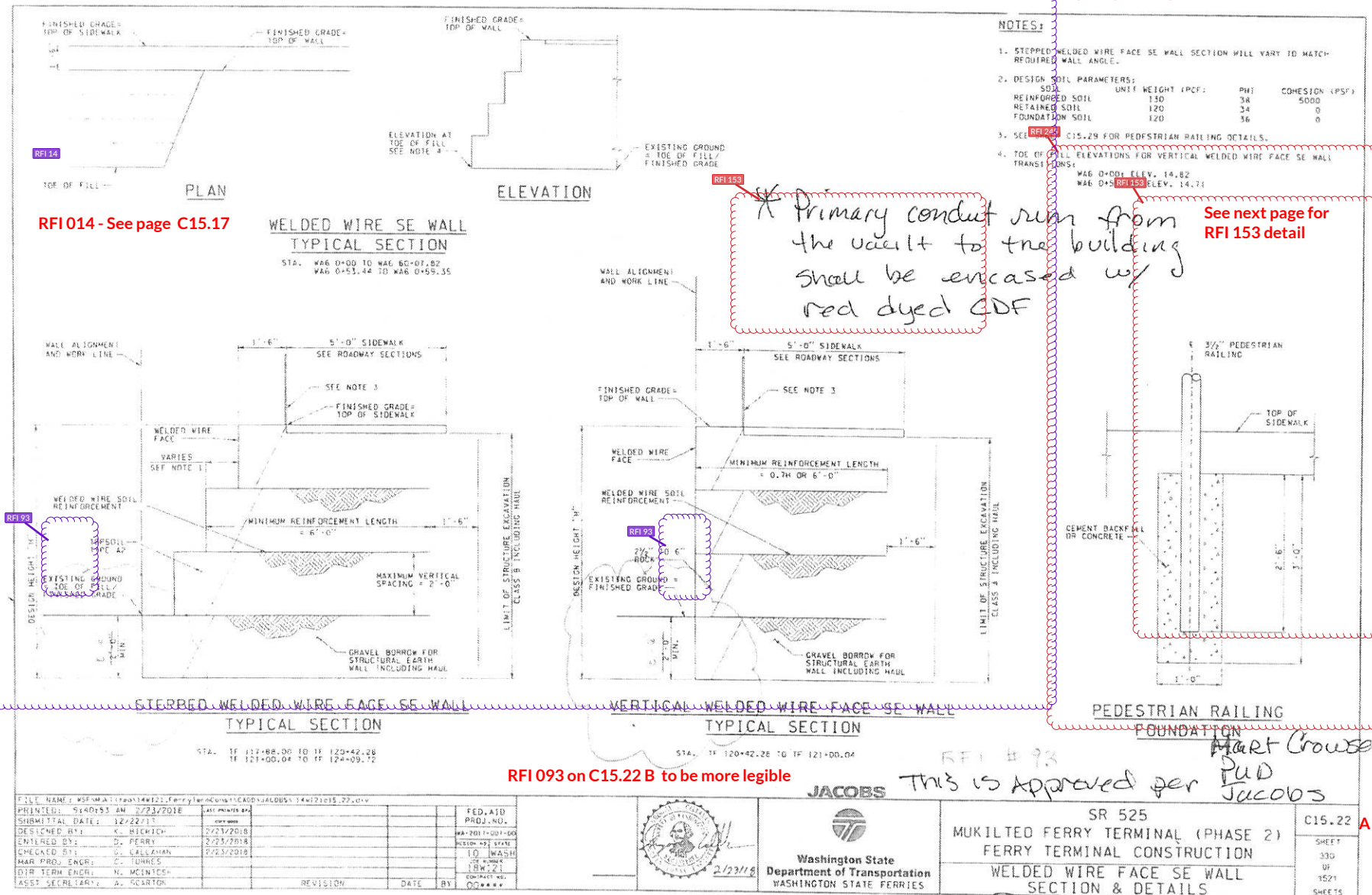
C15.21B

SHEET  
329  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c15-21.dlv						
PRINTED: 8:59:32 AM 9/21/2018		LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: 09/21/18		Daniel JL				WA-2017-007-00
DESIGNED BY: K. BICHICH		9/21/2018				REGION NO. STATE
ENTERED BY: D. PERRY		9/21/2018				10 WASH
CHECKED BY: G. CALLAHAN		9/21/2018				JOB NUMBER 18W121
MAR PROJ ENGR: C. TORRES						CONTRACT NO. 00*****
DIR TERM ENGR: N. MCINTOSH						
ASST SECRETARY: A. SCARTON				REVISION	DATE	BY



**RFI 245 -**  
The pedestrian railing as detailed on contract plan sheet C15.22 is desired at Wall 6.  
The 54" pedestrian railing height as detailed on contract plan sheet C15.22 cannot be reduced



Contract 9321  
Change Order 17  
Page 4 of 4

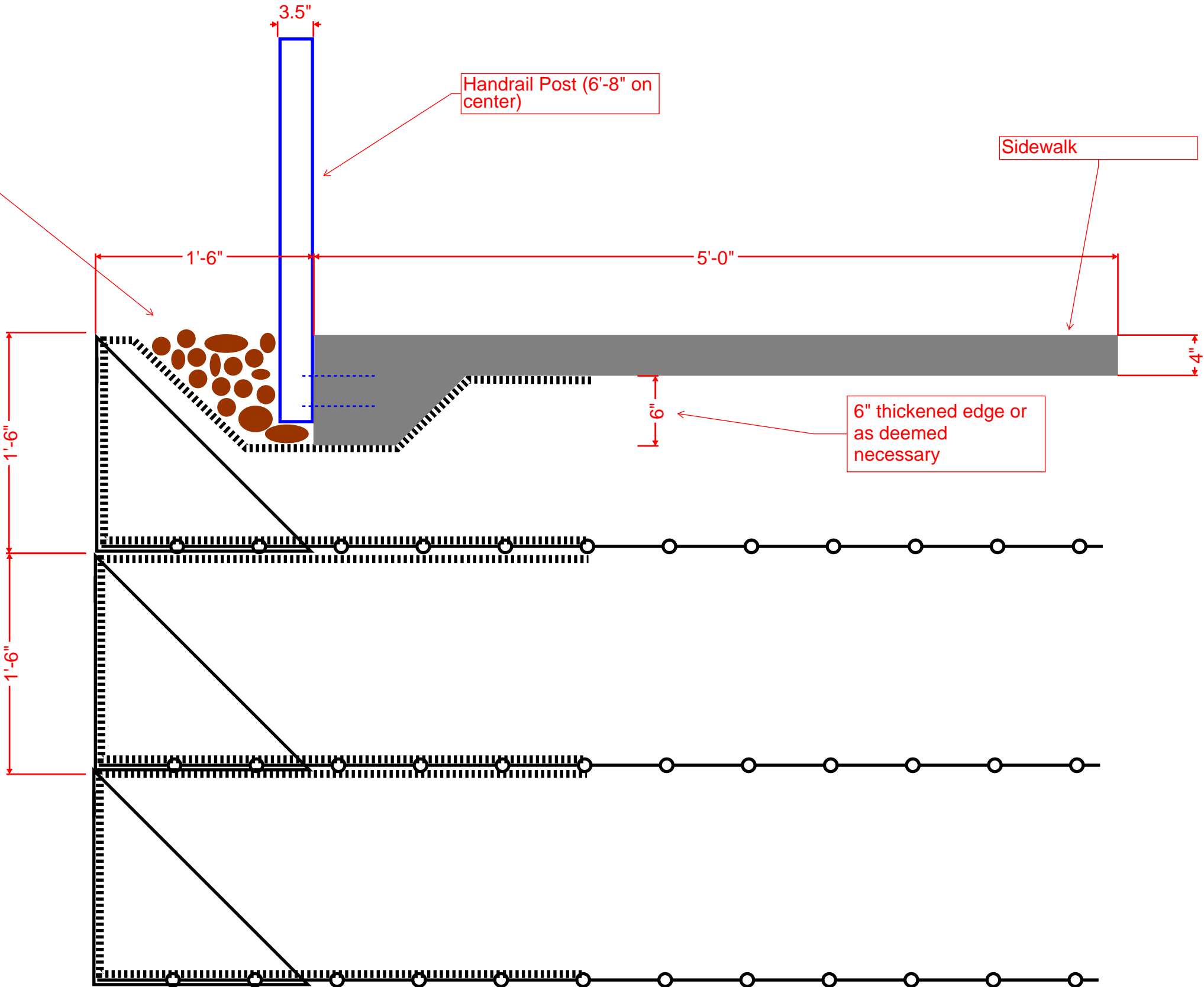
Jeri Schuman 4-18-19



Topsoil or Rock Facing placed in void depending on section of wall.

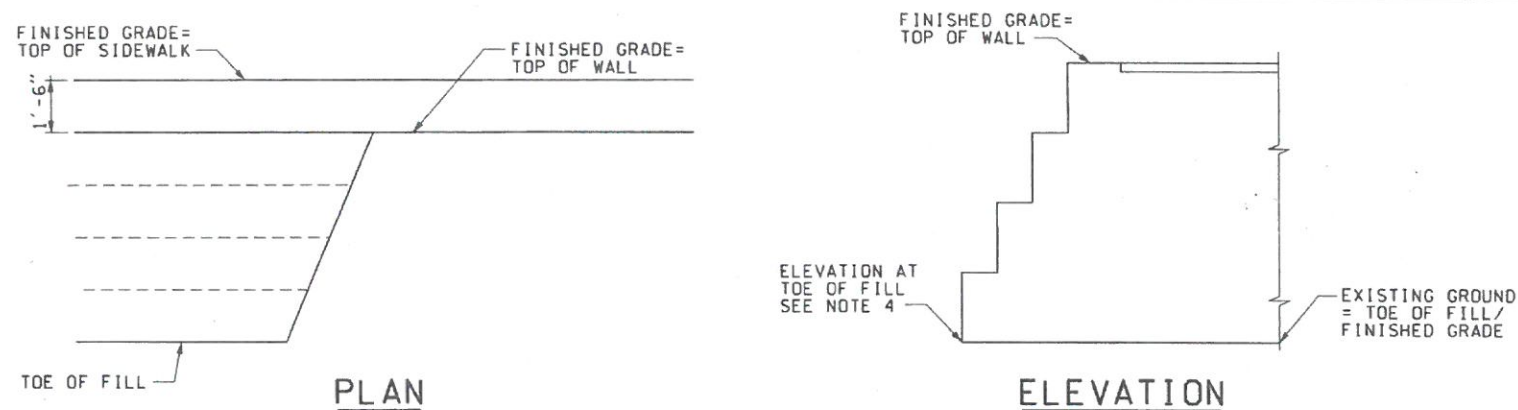
Handrail Post (6'-8" on center)

Sidewalk



Not to Scale





### WELDED WIRE SE WALL TYPICAL SECTION

STA. WA6 0+00 TO WA6 60+07.82  
WA6 0+53.44 TO WA6 0+59.35

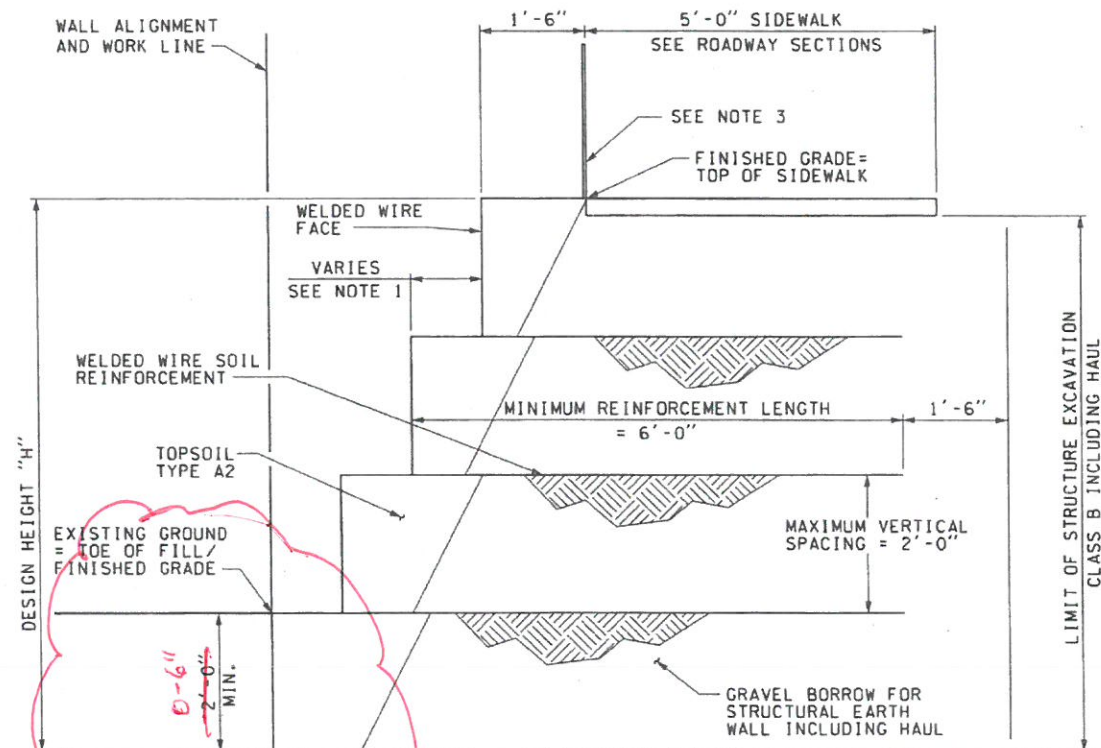
### NOTES:

1. STEPPED WELDED WIRE FACE SE WALL SECTION WILL VARY TO MATCH REQUIRED WALL ANGLE.
2. DESIGN SOIL PARAMETERS:
 

SOIL	UNIT WEIGHT (PCF)	PHI	COHESION (PSF)
REINFORCED SOIL	130	38	5000
RETAINED SOIL	120	34	0
FOUNDATION SOIL	120	36	0
3. SEE SHEET C15.29 FOR PEDESTRIAN RAILING DETAILS.
4. TOE OF FILL ELEVATIONS FOR VERTICAL WELDED WIRE FACE SE WALL TRANSITIONS:
 

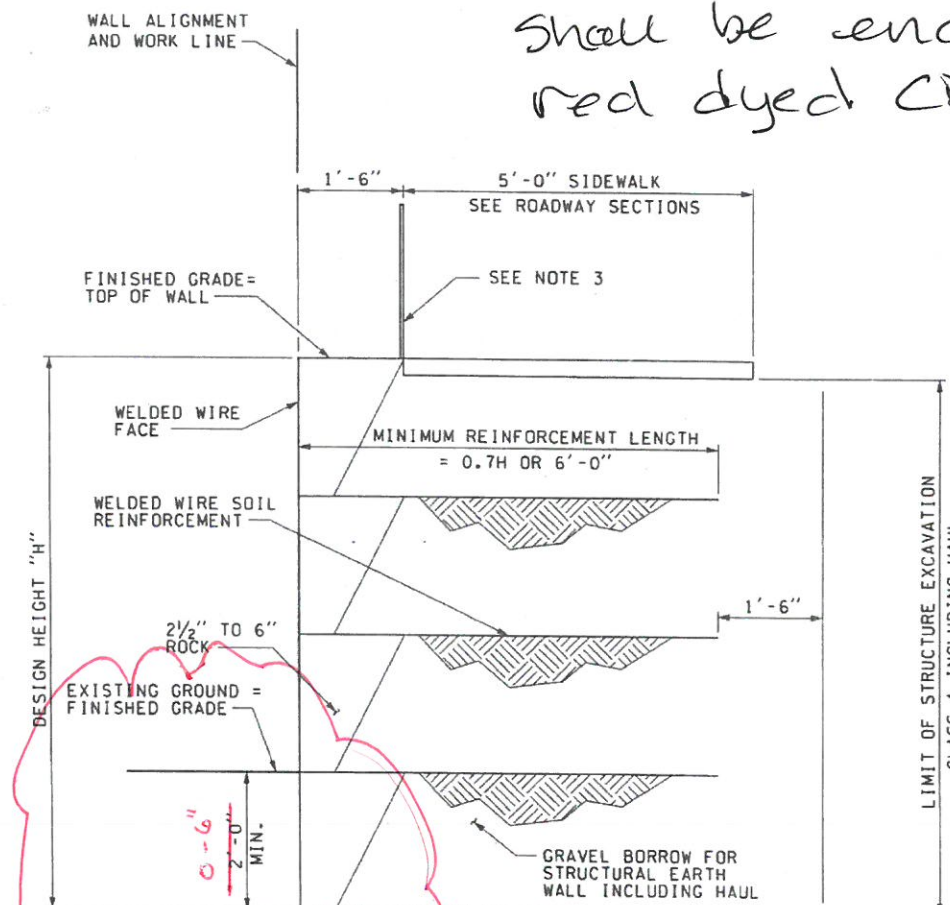
WA6 0+00: ELEV. 14.82
WA6 0+59.35: ELEV. 14.71

\* Primary conduit run from the vault to the building shall be encased w/ red dyed CDF



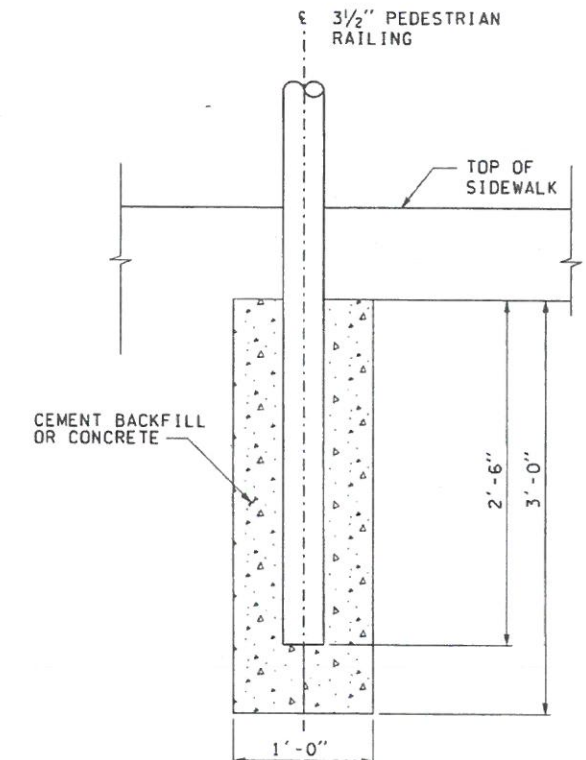
### STEPPED WELDED WIRE FACE SE WALL TYPICAL SECTION

STA. TF 117+88.00 TO TF 120+42.28  
TF 121+00.04 TO TF 124+09.72



### VERTICAL WELDED WIRE FACE SE WALL TYPICAL SECTION

STA. TF 120+42.28 TO TF 121+00.04



### PEDESTRIAN RAILING FOUNDATION

RFI #93

This is approved per *Art Crowder* PUD Jacobs

FILE NAME: WSF\Mukilteo\14W121.FerryTermConst\CADD\JACOBS\14w121c15.22.dwg

PRINTED: 9:40:53 AM 2/23/2018

SUBMITTAL DATE: 12/22/17

DESIGNED BY: K. BICHICH 2/23/2018

ENTERED BY: D. PERRY 2/23/2018

CHECKED BY: G. CALLAHAN 2/23/2018

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00\*\*\*\*



**JACOBS**

**Washington State**  
Department of Transportation  
WASHINGTON STATE FERRIES

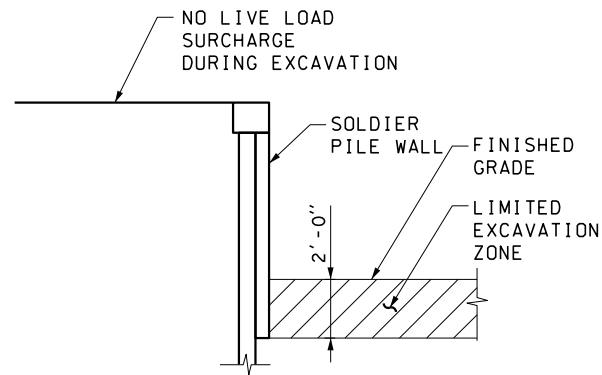
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
WELDED WIRE FACE SE WALL  
SECTION & DETAILS

C15.22 B

SHEET  
330  
OF  
1521  
SHEETS

*Jeri Schuman* 4-18-19

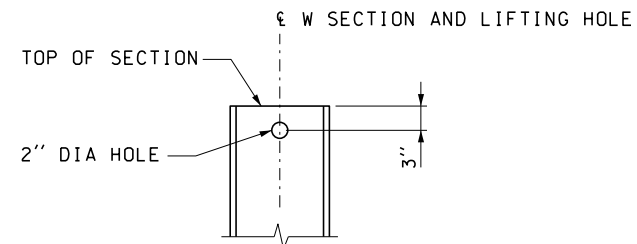




### EXCAVATION LIMITATIONS

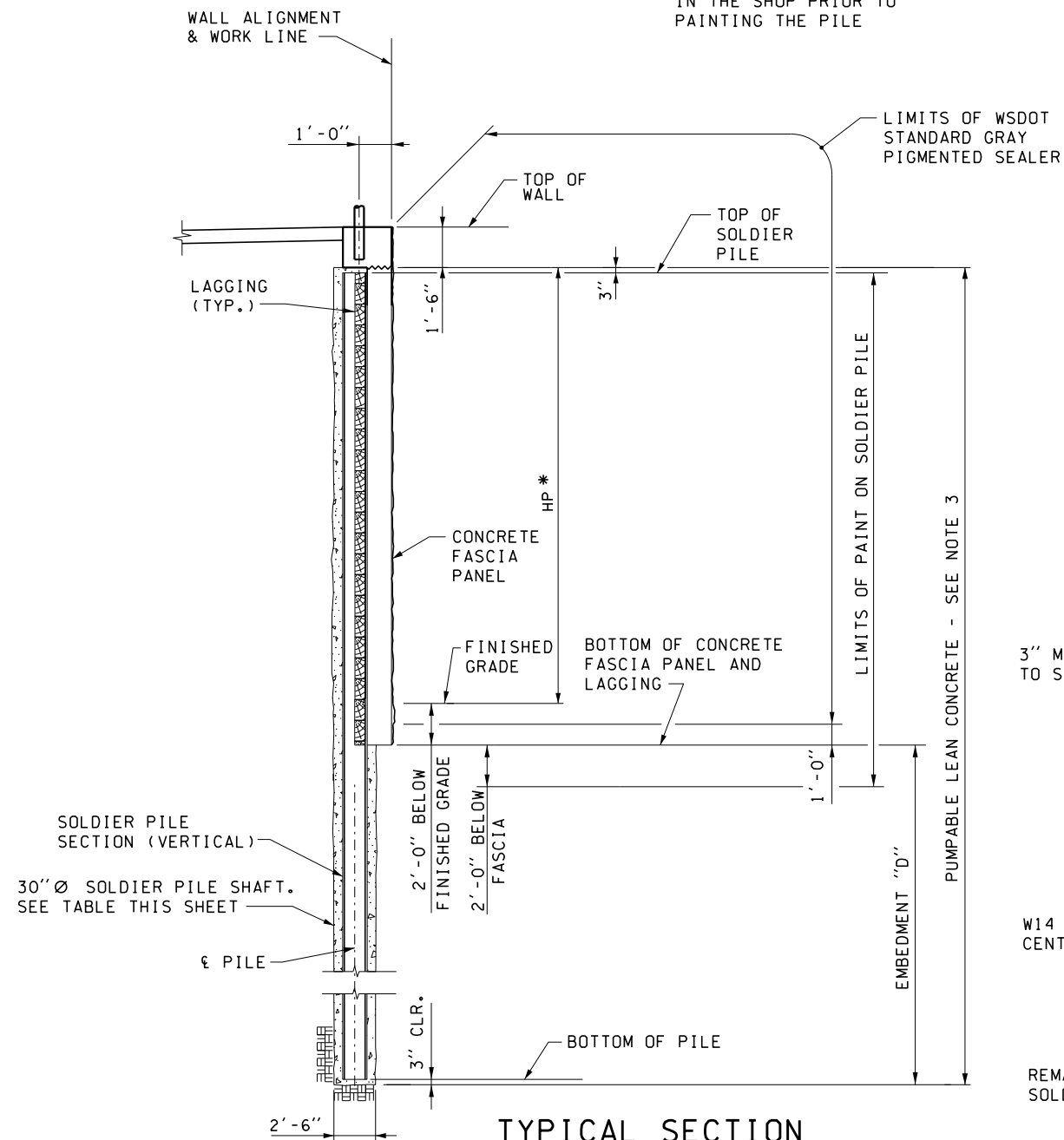
### WALL 2 SOLDIER PILE SCHEDULE

PILE NO.	TOP OF PILE EL.	LENGTH (FT)	EMBEDMENT DEPTH "D"	TOP OF PILE DEFLECTION (in)
1	26.99'	36.0'	33.5'	1.9
2	29.59'	42.0'	34.5'	1.9
3	32.18'	48.0'	34.5'	1.9
4	33.52'	48.0'	34.5'	1.9
5	32.85'	48.0'	34.5'	1.9
6	32.24'	49.0'	35.0'	1.9
7	31.54'	49.0'	35.0'	1.9
8	30.83'	48.0'	35.0'	1.9
9	30.13'	48.0'	35.0'	1.9
10	29.43'	47.0'	35.0'	1.9
11	28.73'	47.0'	35.0'	1.9
12	28.02'	46.0'	35.0'	1.9
13	27.68'	46.0'	35.0'	1.9
14	27.50'	46.0'	35.0'	1.9



### SOLDIER PILE LIFTING HOLE

LIFTING HOLE TO BE DRILLED IN THE SHOP PRIOR TO PAINTING THE PILE

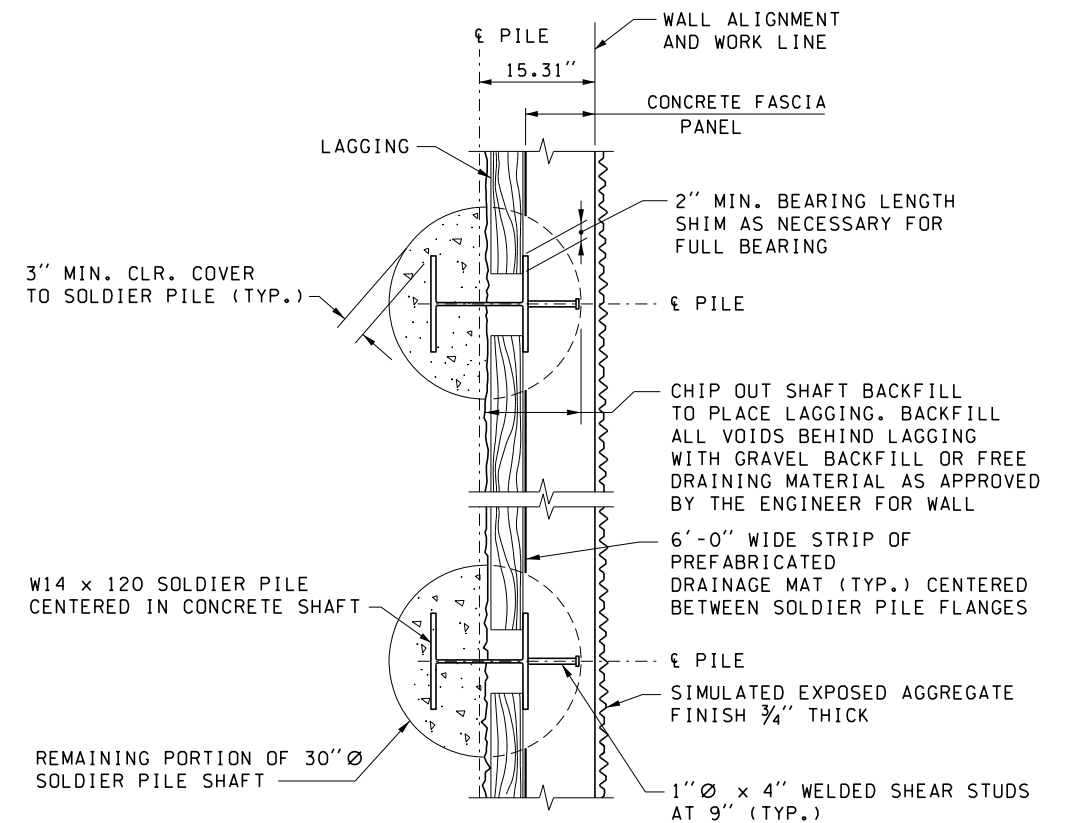


### TYPICAL SECTION

\* DETERMINE FROM WALL PLAN AND PROFILE

### NOTES:

- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE REQUIREMENTS OF AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 7TH ED, WSDOT STD. SPEC. 2016, AND WSDOT BDM 2016.
- ALL STRUCTURAL STEEL PILES SHALL BE ASTM A 992 GRADE 50. SOLDIER PILES SHALL BE PAINTED TO THE LIMITS SHOWN IN THE PLANS, IN ACCORDANCE WITH WSDOT STD. SPEC. SECTION 6-16.3(4).
- SOLDIER PILE SHAFTS SHALL BE FILLED WITH PUMPABLE LEAN CONCRETE WHEN PLACED IN THE WET IN ACCORDANCE WITH STD. SPEC. SECTION 6-16.3(5) OR CONTROLLED DENSITY FILL WHEN PLACED IN THE DRY IN ACCORDANCE WITH WSDOT STD. SPEC. SECTION 2-09.3(1)E.
- LAGGING SYSTEM SHALL BE DESIGNED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL IN ACCORDANCE WITH WSDOT STD. SPEC. SECTION 6-16.3(6).
- EXCAVATION IN FRONT OF WALL SHALL NOT EXTEND BELOW BOTTOM OF LAGGING OR FASCIA PANELS.
- ALL WELDING SHALL BE DONE TO MINIMIZE DISTORTION. THE WELDING SEQUENCE AND PROCEDURES USED SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WELDING.
- UNLESS OTHERWISE SHOWN ON THE PLANS, THE CONCRETE COVER MEASURED FROM FACE OF CONCRETE TO FACE OF ANY REINFORCING STEEL SHALL BE 2".
- EXISTING GROUND LINE IS APPROXIMATE AND SHALL BE VERIFIED BY THE CONTRACTOR IN THE FIELD.



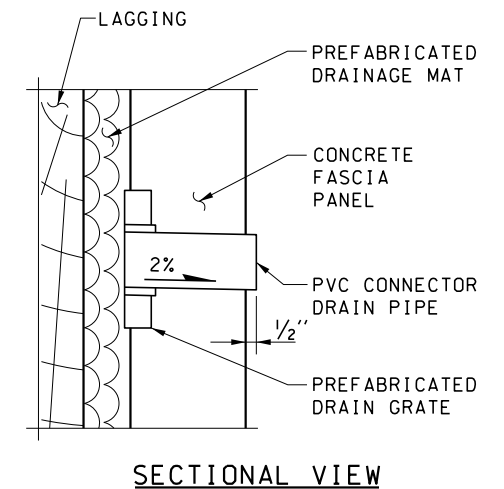
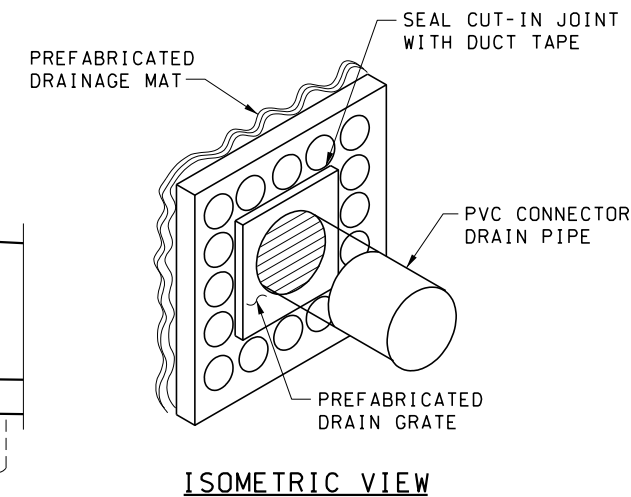
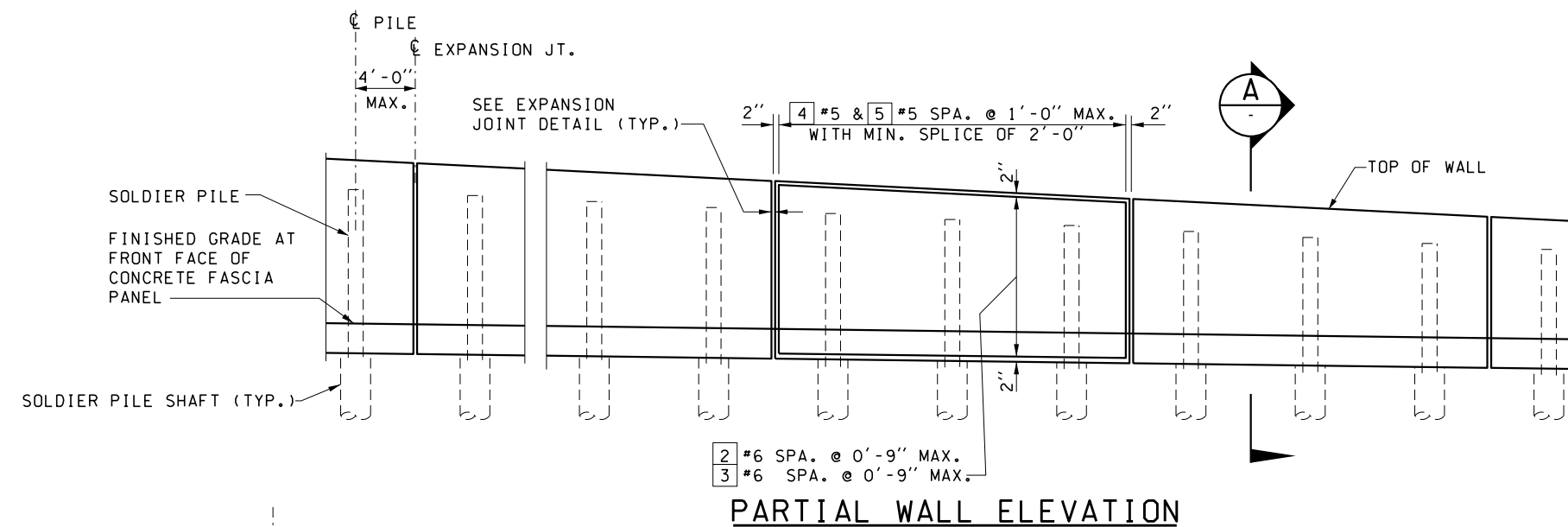
### PARTIAL PLAN SOLDIER PILE WALL

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		#USERNAME#		WA-2017-007-00
DESIGNED BY: K. BICHICH	1/18/19			REGION NO. STATE
ENTERED BY: R. REISER	1/18/19			10 WASH
CHECKED BY: S. CHEUNG	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321



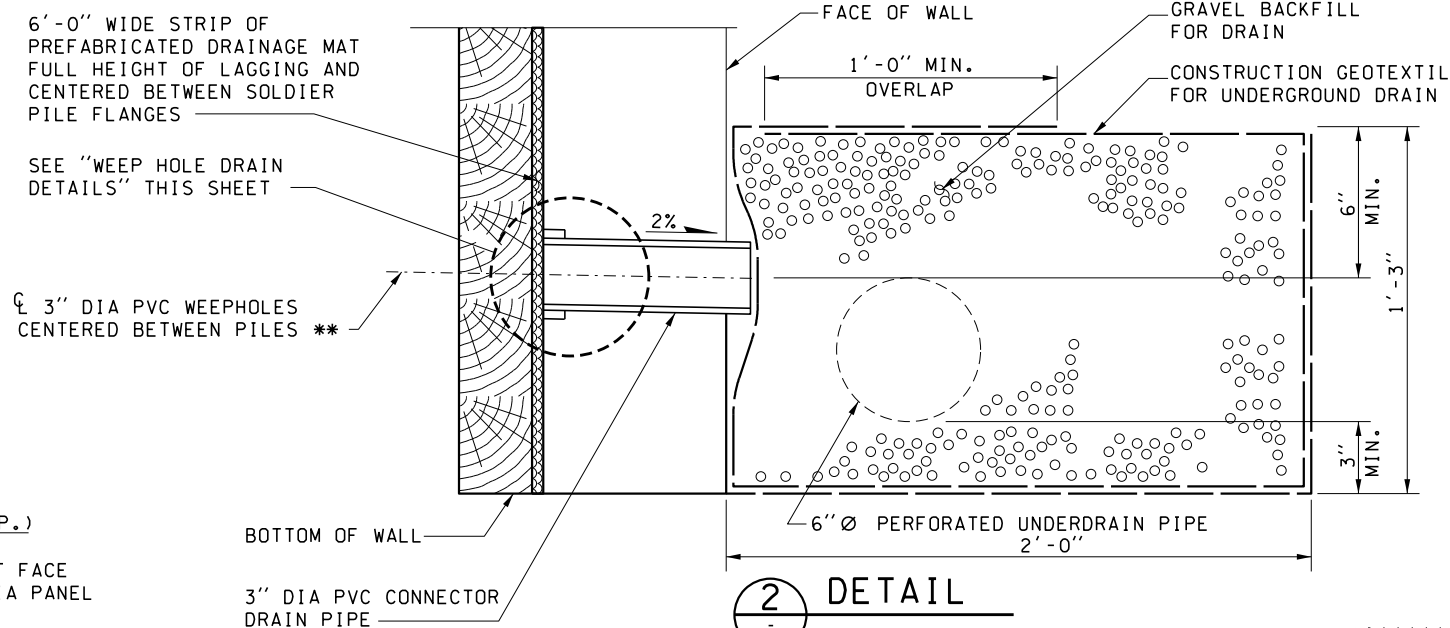
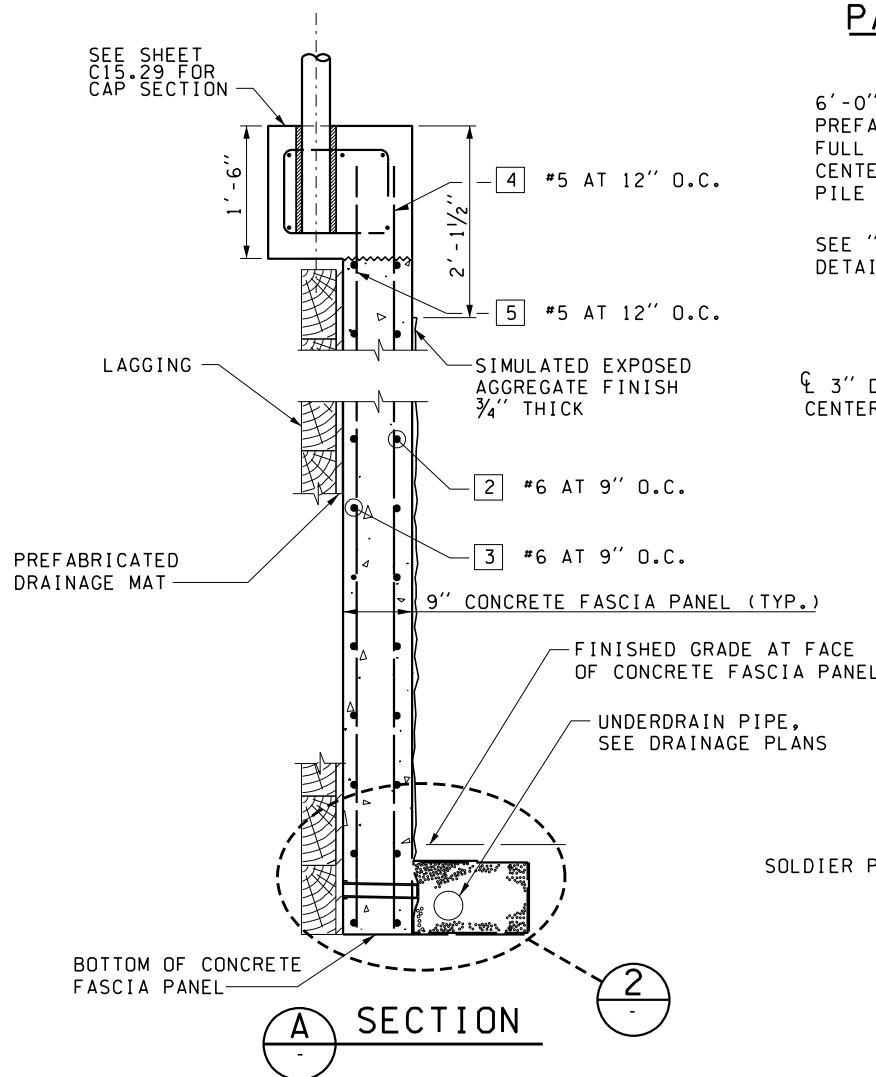
SR 525		C15.23
MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		
SOLDIER PILE WALL DETAILS 1		SHEET 331 OF 1521 SHEETS



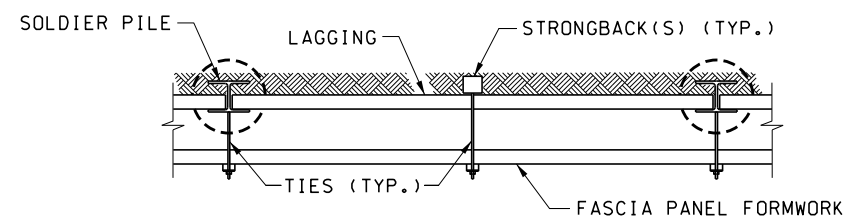


### WEEP HOLE DRAIN DETAILS

DRAIN GRATE INSTALLATION SHALL NOT DISRUPT PREFABRICATED DRAINAGE MAT

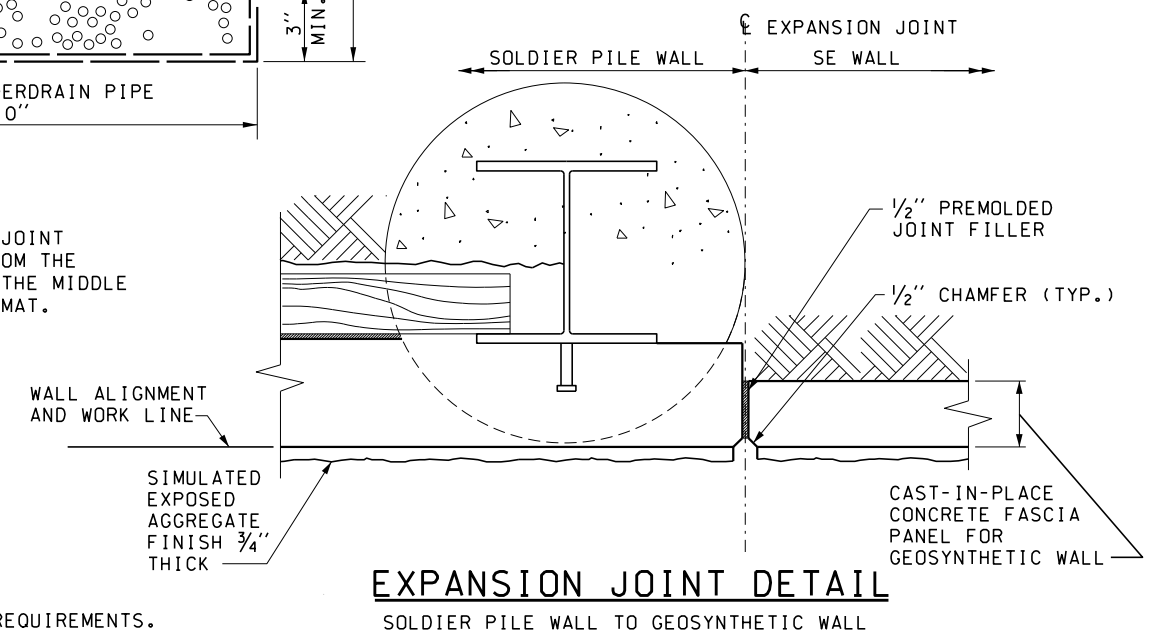
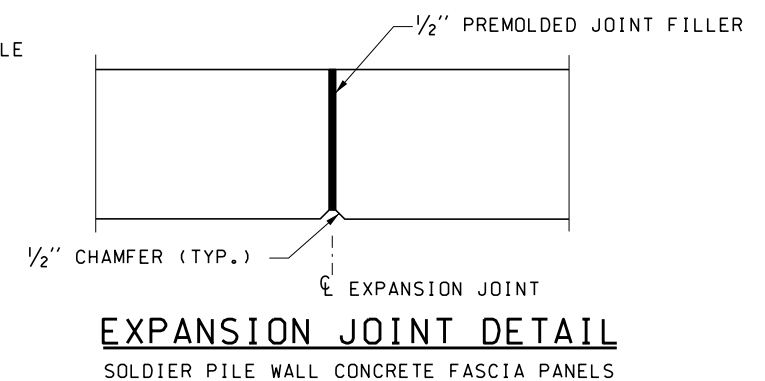


\*\* WEEP HOLES LOCATED AT AN EXPANSION JOINT MAY BE ADJUSTED 6" TO 1'-0" AWAY FROM THE EXPANSION JOINT, BUT REMAIN WITHIN THE MIDDLE HALF OF THE PREFABRICATED DRAINAGE MAT.



### TYPICAL FASCIA PANEL FORMWORK

- SEE WSDOT STD. SPEC. SECTION 6-16.3(2) FOR CONCRETE FASCIA PANEL FORMING REQUIREMENTS.  
- STRONGBACK(S) AND TIES SPACED AS REQUIRED FOR FORMING.



FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\FILES\$

PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:	
SUBMITTAL DATE: 1/18/19		#USERNAME#	
DESIGNED BY: K. BICHICH	1/18/19		
ENTERED BY: D. PERRY	1/18/19		
CHECKED BY: S. CHEUNG	1/18/19		
MAR PROJ ENGR: C. TORRES			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19
ASST SECRETARY: A. SCARTON		REVISION	DATE BY

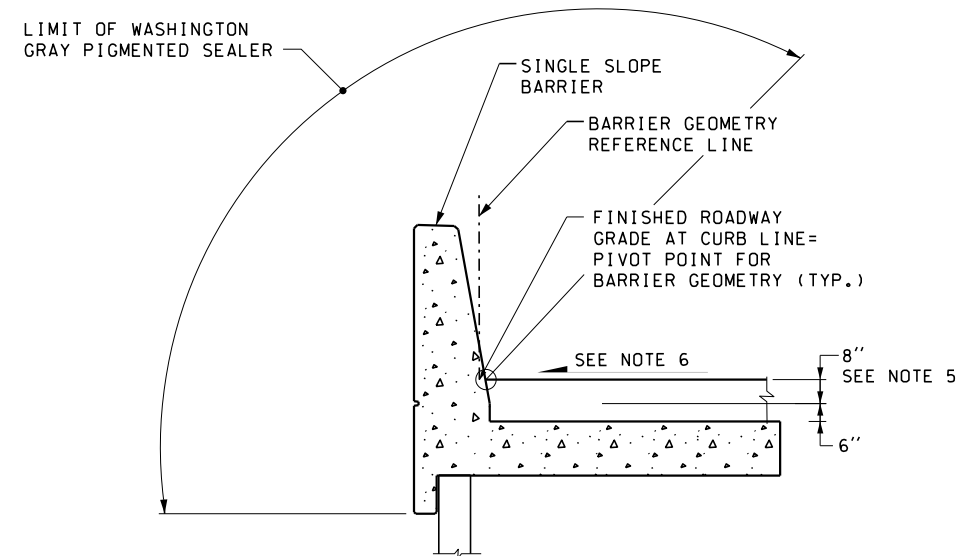
FED.AID PROJ.NO.
WA-2017-007-00
REGION NO. STATE
10 WASH
JOB NUMBER
18W121
CONTRACT NO.
009321



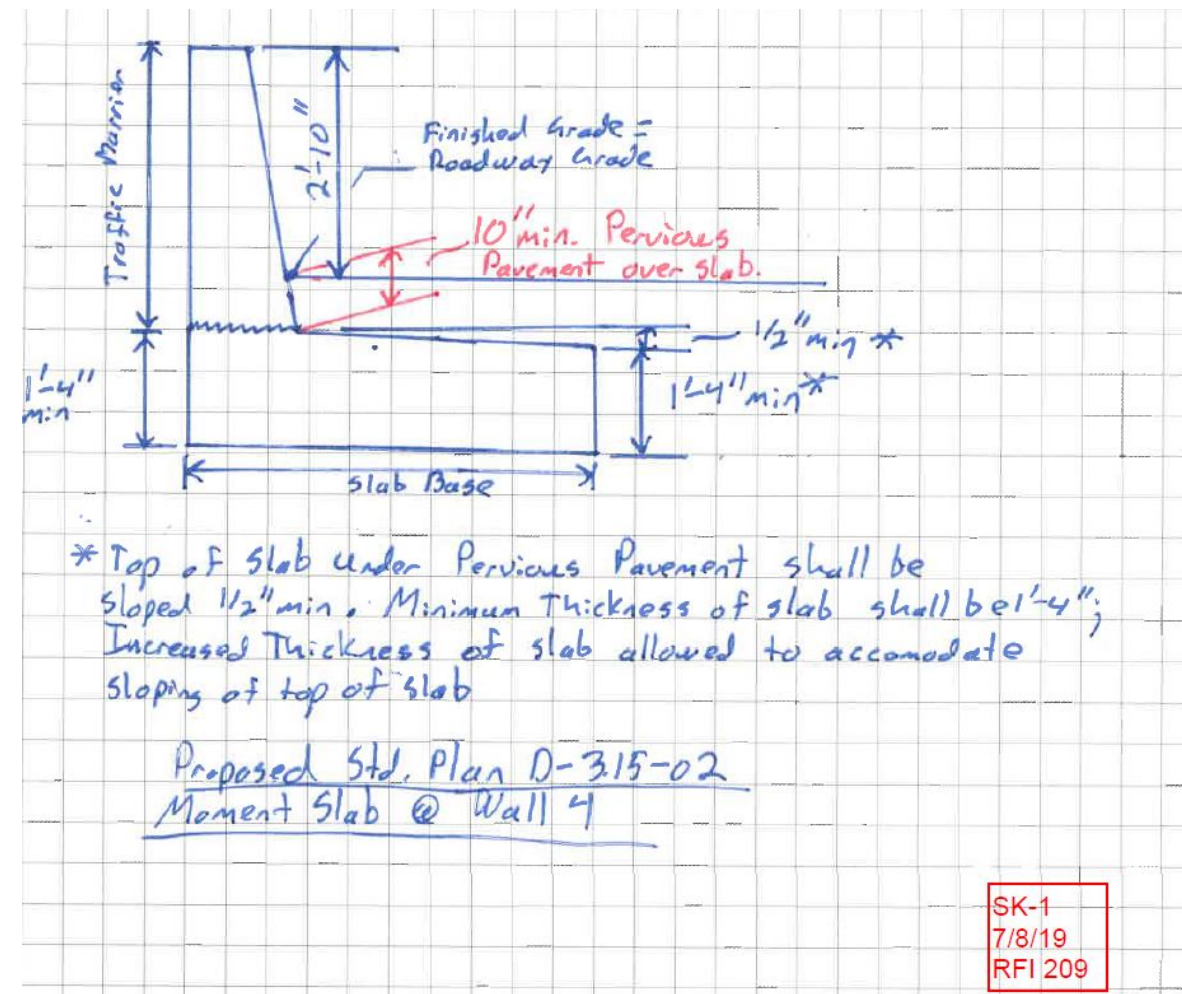
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SOLDIER PILE WALL DETAILS 2

C15.24  
SHEET  
332  
OF  
1521  
SHEETS





ORIENTATION SECTION



RFI 209


NOTES:


1. FOR GEOSYNTHETIC WALL SINGLE SLOPE TRAFFIC BARRIER DETAILS, SEE WSDOT STD. PLAN D-3.15-02.
2. SEE SHEET C15.26 GEOSYNTHETIC WALL SINGLE SLOPE TRAFFIC BARRIER DETAILS 2 FOR JUNCTION BOX DETAILS.
3. SEE SHEET C15.27 GEOSYNTHETIC WALL SINGLE SLOPE BARRIER DETAILS 3 FOR PEDESTRIAN RAILING MOUNTING DETAILS.
4. RAILING NOT SHOWN FOR CLARITY.
5. SEE ROADWAY SECTIONS FOR PAVEMENT DEPTH.
6. WALL 4 DRAINAGE SLOPE 2% MAX. TOWARD BARRIER.

GEOSYNTHETIC WALL SINGLE SLOPE  
TRAFFIC BARRIER LIMITS

WALL	BEGIN STA.	END STA.
4	WA4 0+00.00	WA4 7+93.00

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:		FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: K. BICHICH		1/18/19				REGION NO. STATE			
ENTERED BY: R. REISER		1/18/19				10 WASH			
CHECKED BY: S. CHEUNG		1/18/19				JOB NUMBER 18W121			
MAR PROJ ENGR: C. TORRES						CONTRACT NO. 009321			
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19			
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY	





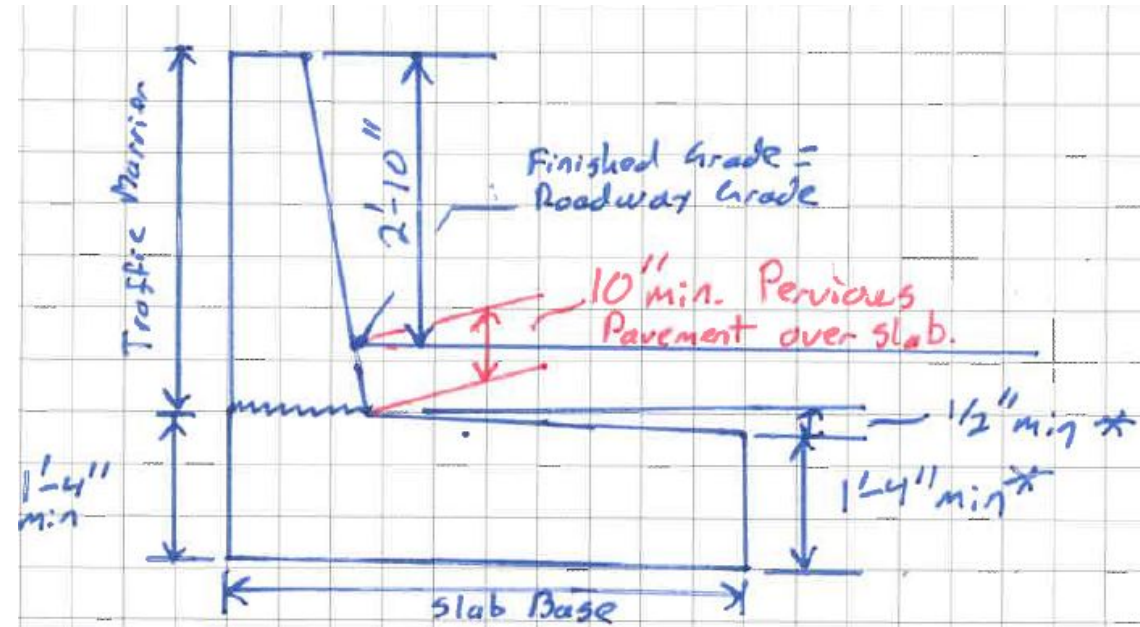
**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

GEOSYNTHETIC WALL SINGLE SLOPE  
BARRIER DETAILS 1

C15.25
SHEET 333 OF 1521 SHEETS



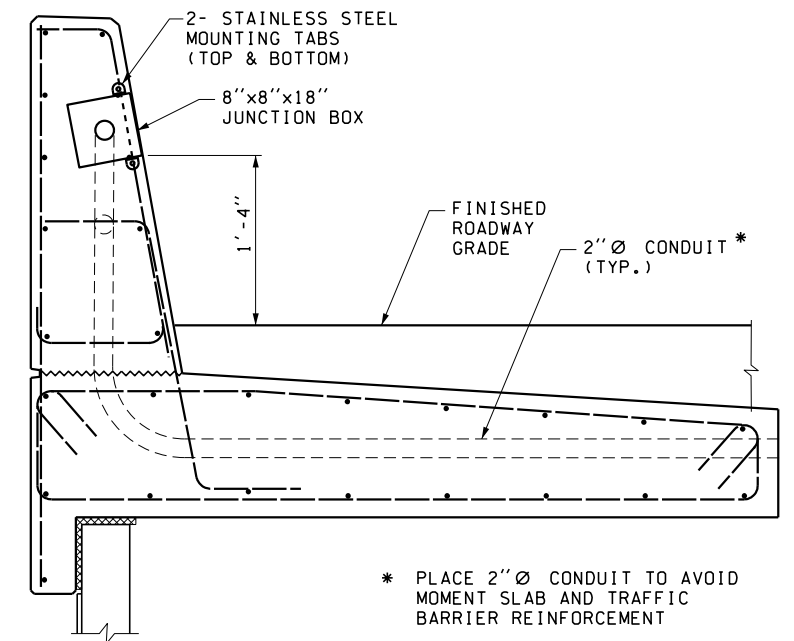


\* Top of slab under Pervious Pavement shall be sloped 1 1/2" min. Minimum thickness of slab shall be 1'-4"; Increased Thickness of slab allowed to accommodate sloping of top of slab

Proposed Std. Plan D-315-02  
Moment Slab @ Wall 4

SK-1  
7/8/19  
RFI 209

RFI 209



### JUNCTION BOX DETAIL

SEE COMMUNICATIONS PLANS FOR  
ADDITIONAL CONDUIT AND JUNCTION  
BOX INFORMATION

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\ \$FILES\$

PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		USERNAME:		WA-2017-007-00
DESIGNED BY: K. BICHICH	1/18/19			REGION NO. STATE
ENTERED BY: D. PERRY	1/18/19			10 WASH
CHECKED BY: S. CHEUNG	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE BY	009321



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

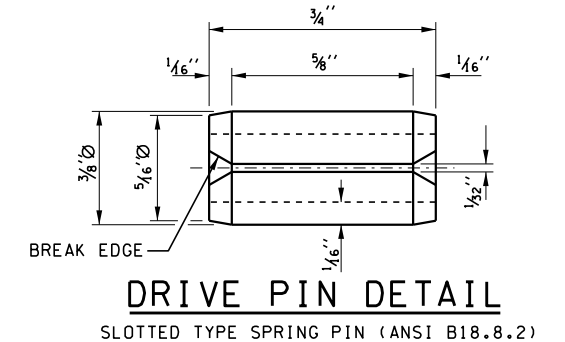
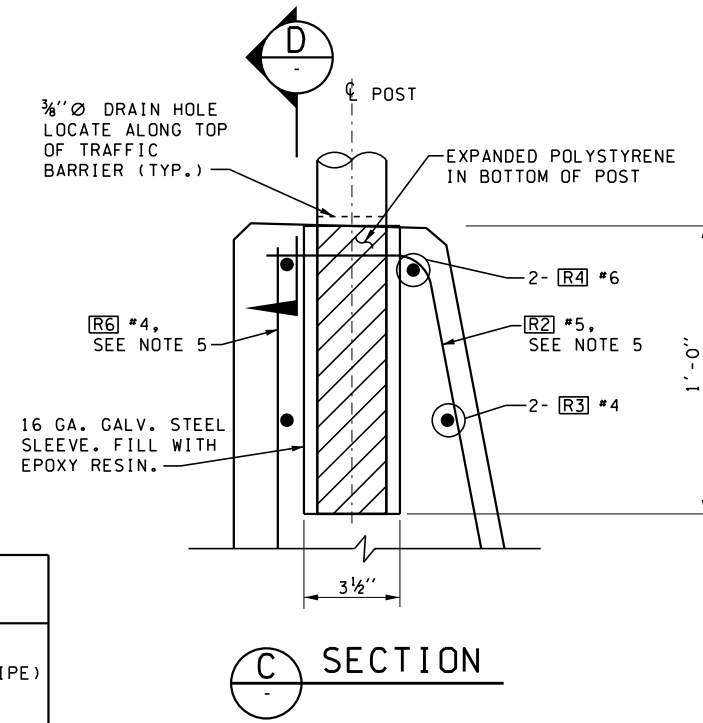
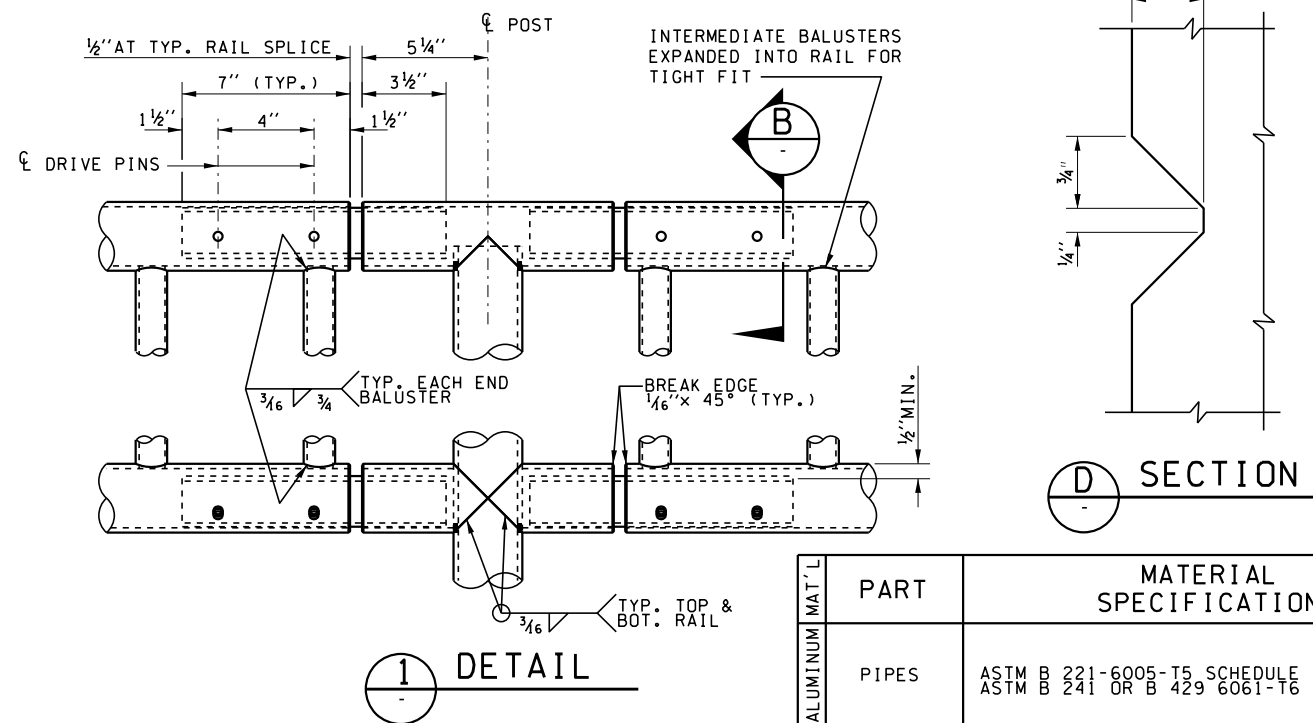
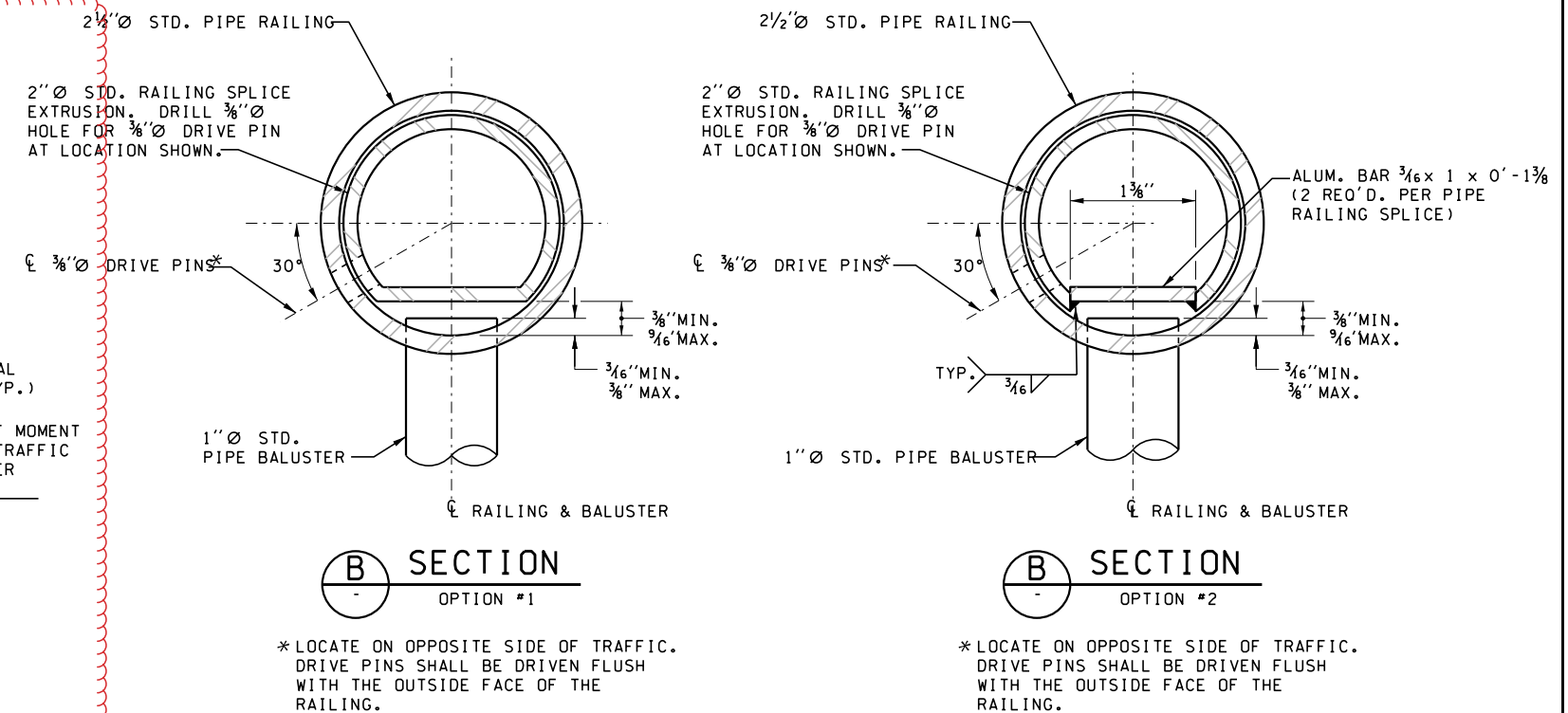
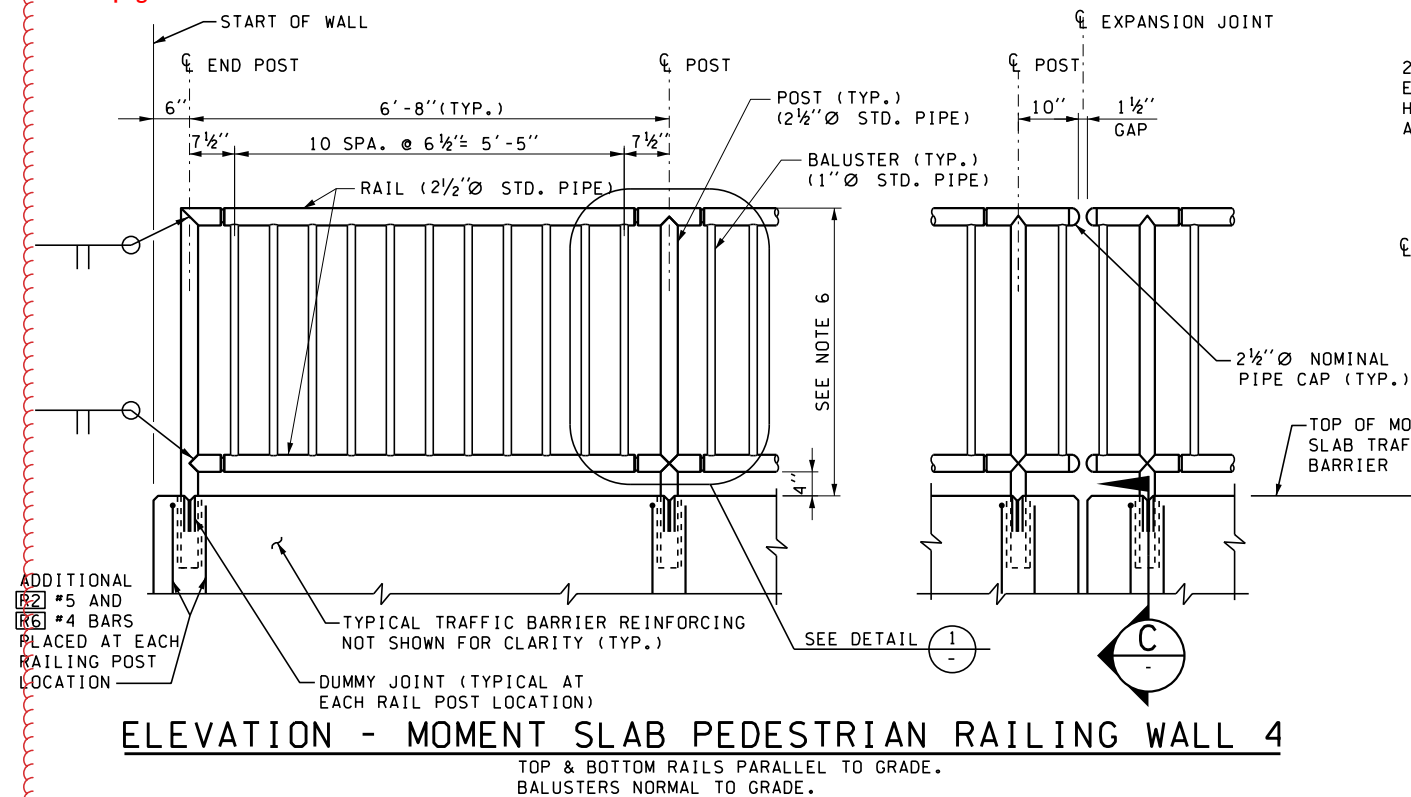
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
GEOSYNTHETIC WALL SINGLE SLOPE  
BARRIER DETAILS 2

C15.26

SHEET  
334  
OF  
1521  
SHEETS



See pages C15.25 and C15.26 for RFI 209 Detail



NOTES:

1. PIPE RAILING AND PIPE RAILING SPLICES SHALL BE BENT TO THE HORIZONTAL CURVE WHERE THE RADIUS OF CURVATURE IS LESS THAN 200'. THESE ITEMS MAY BE HEATED TO NOT MORE THAN 400°F FOR A PERIOD NOT TO EXCEED 30 MINUTES TO FACILITATE FORMING OR BENDING TO HORIZONTAL CURVATURE.
2. WELDING OF ALUMINUM SHALL CONFORM TO STD. SPEC. SECTION 9-28.14(3).
3. AFTER FABRICATION, POSTS SHALL BE HEAT TREATED IN ACCORDANCE WITH SECTION 6.5 OF THE AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS DATED 2001.
4. ALL ALUMINUM PARTS SHALL BE GIVEN A BRONZE ANODIC COATING OF AT LEAST 0.0006" THICK AND SEALED TO MEET THE REQUIREMENTS OF ASTM B 580 WITH A UNIFORM FINISH.
5. ONE [R2] #5 BAR AND ONE [R6] #4 BAR WILL BE PLACED AT EACH RAILING POST LOCATION. SEE ELEVATION VIEW.
6. MOMENT SLAB PEDESTRIAN RAILING HEIGHTS SHALL BE:  
WALL 4: 3'-2"

PART		MATERIAL SPECIFICATION
ALUMINUM	PIPES	ASTM B 221-6005-T5 SCHEDULE 40 (STD. PIPE) ASTM B 241 OR B 429 6061-T6
ALUMINUM	BAR	ASTM B 221-6005-T5
STEEL	DRIVE PINS	ASTM A 276 TYPE 302 STAINLESS STEEL

**JACOBS**

**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

---

GEOSYNTHETIC WALL SINGLE SLOPE  
BARRIER DETAILS 3

C15.27

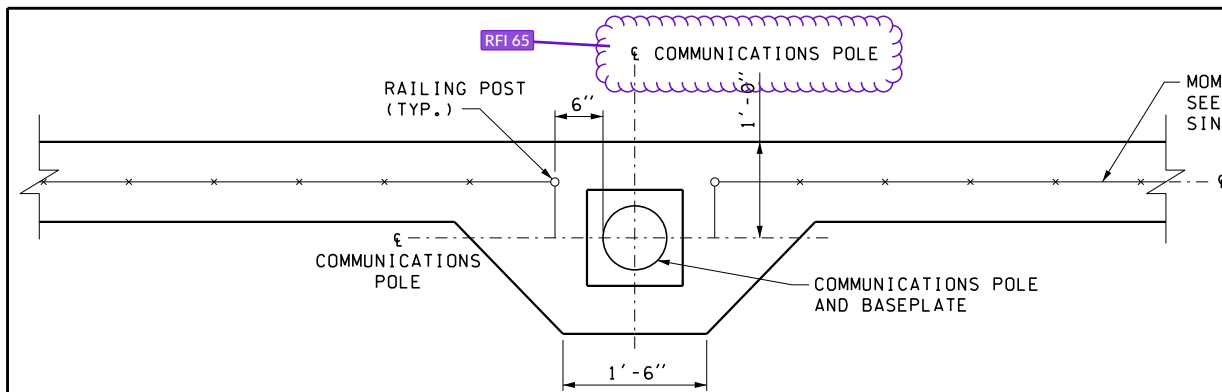
SHEET  
335  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$		\$\$DATE\$\$		LAST PRINTED BY:					
SUBMITTAL DATE: 1/18/19				#USER#					
DESIGNED BY: K. BICHICH				1/18/19				FED.AID PROJ.NO.	
ENTERED BY: D. PERRY				1/18/19				WA-2017-007-0	
CHECKED BY: S. CHEUNG				1/18/19				REGION NO. STATE	
MAR PROJ ENGR: C. TORRES								10 WASH	
DIR TERM ENGR: N. MCINTOSH						CONFORMED PLANS		1/18/19	
ASST SECRETARY: A. SCARTON						REVISION		DATE BY	
								JOB NUMBER 18W121	
								CONTRACT NO. 009321	

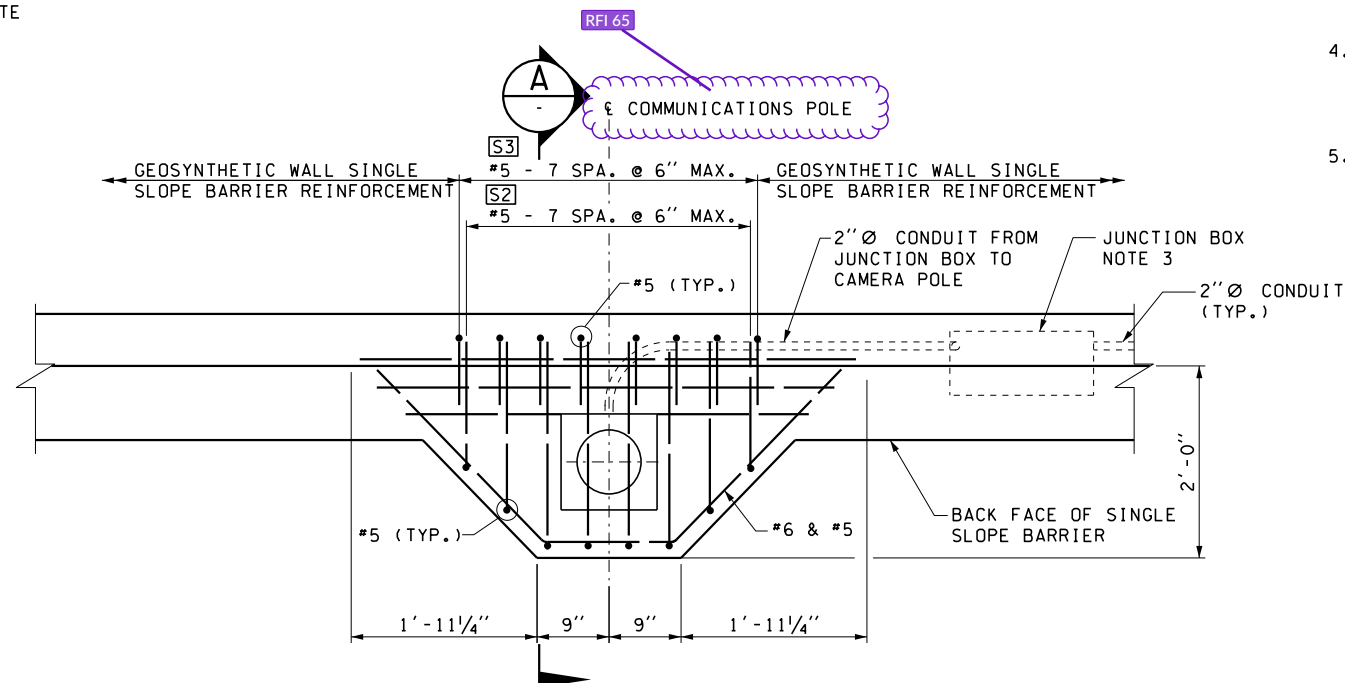


01/18/19





COMMUNICATIONS POLE PLAN

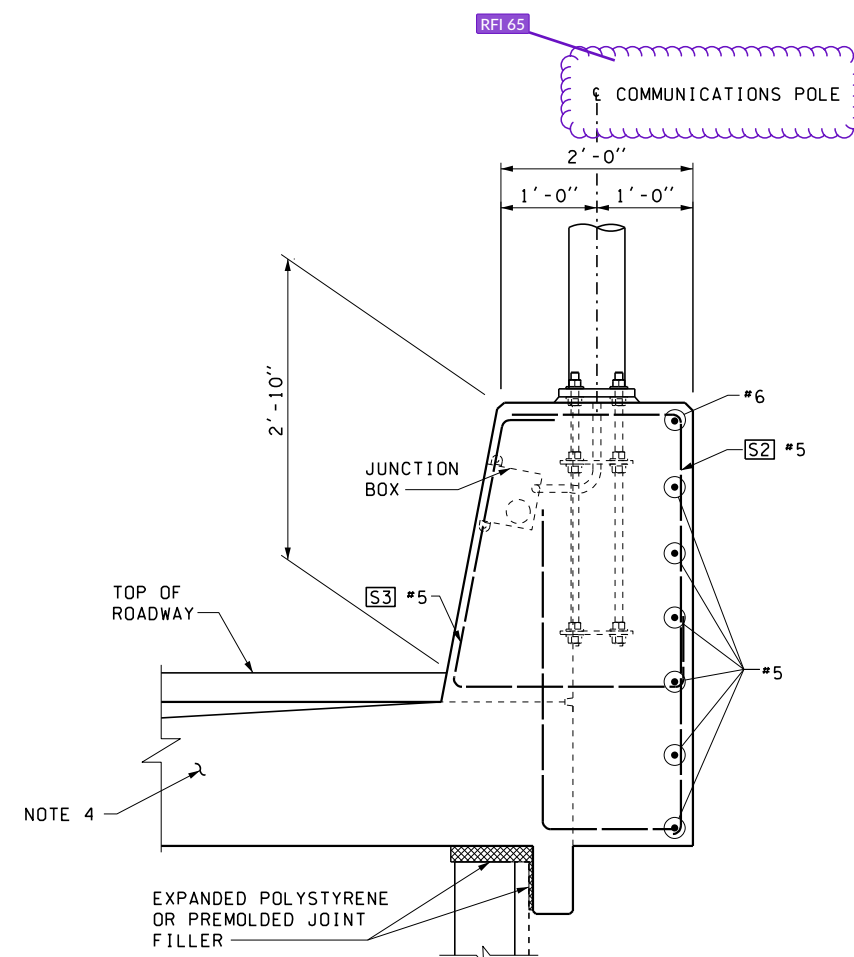


REINFORCING PLAN

NOTES:

1. FOR LOCATION AND DETAILS OF COMMUNICATIONS POLES REFER TO COMMUNICATION PLANS.
2. ANCHOR BOLT SIZE AND EMBEDMENT DEPTH SHALL CONFORM TO COMMUNICATIONS POLE MANUFACTURER'S SPECIFICATIONS.
3. SEE SHEET C15.26, GEOSYNTHETIC WALL SINGLE SLOPE BARRIER DETAILS 2, FOR JUNCTION BOX PLACEMENT.
4. TYPICAL GEOSYNTHETIC WALL SINGLE SLOPE BARRIER REINFORCING NOT SHOWN FOR CLARITY. SEE WSDOT STD. PLAN D-3.15-02, C15.25, C15.26, AND C15.27 FOR GEOSYNTHETIC WALL SINGLE SLOPE BARRIER DETAILS.
5. COMMUNICATIONS POLE SHALL BE 16'-0" MIN. FROM EXPANSION JOINT.

See page C15.20 for RFI 065 notes



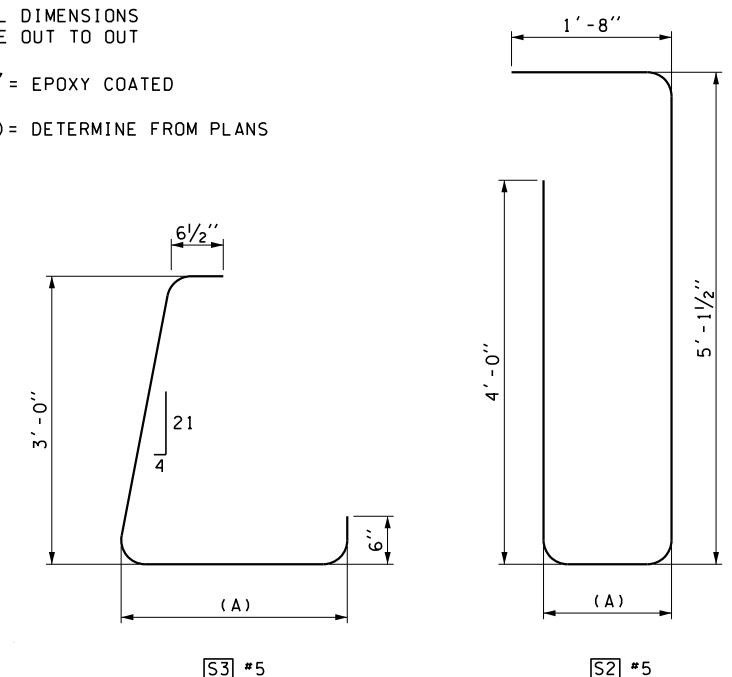
A SECTION AT COMMUNICATIONS POLE SUPPORT

COMMUNICATIONS POLE SUPPORT BAR LIST

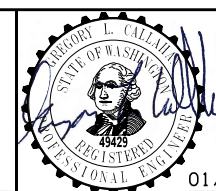
ALL DIMENSIONS ARE OUT TO OUT

▽ = EPOXY COATED

(A) = DETERMINE FROM PLANS



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: K. BICHICH	1/18/19					REGION NO. STATE			
ENTERED BY: D. PERRY	1/18/19					10 WASH			
CHECKED BY: G. CALLAHAN	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		009321			



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
WALL 4 - COMMUNICATIONS POLE  
SUPPORT DETAILS

C15.28

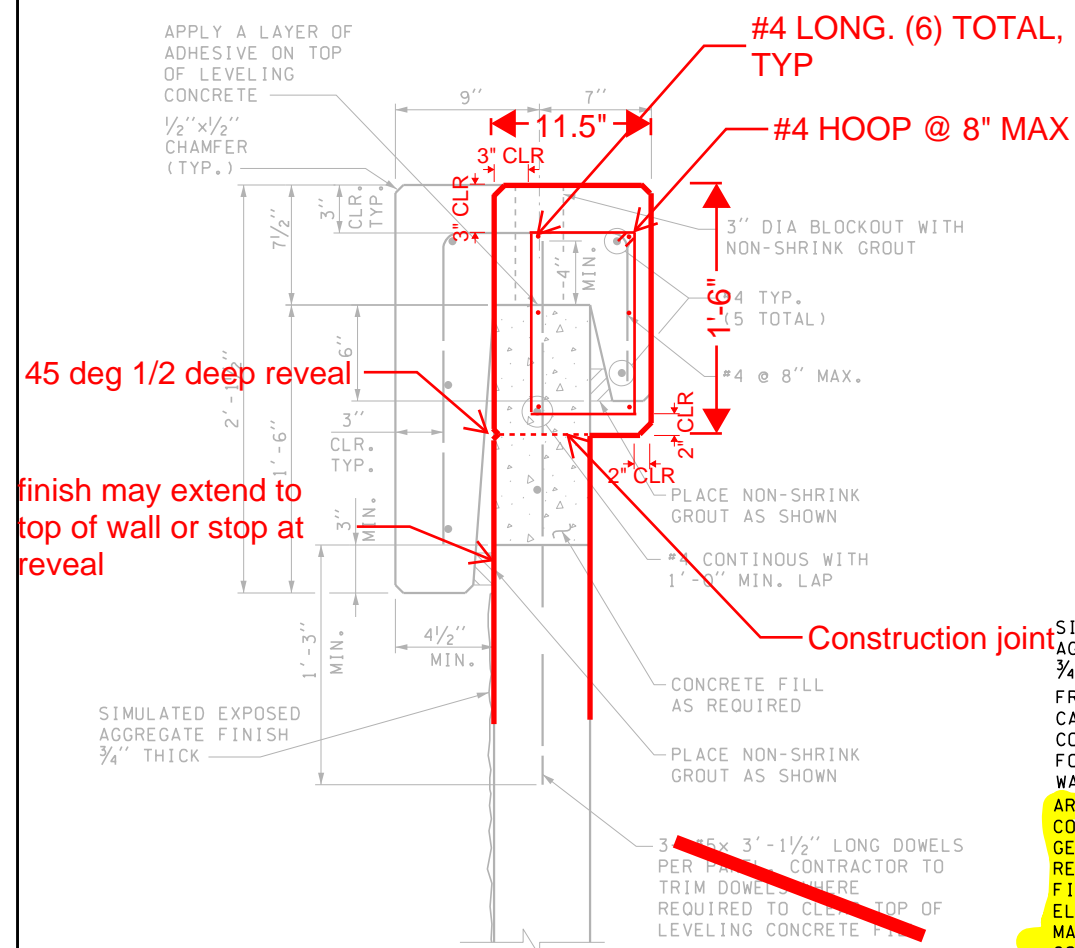
SHEET  
336  
OF  
1521  
SHEETS





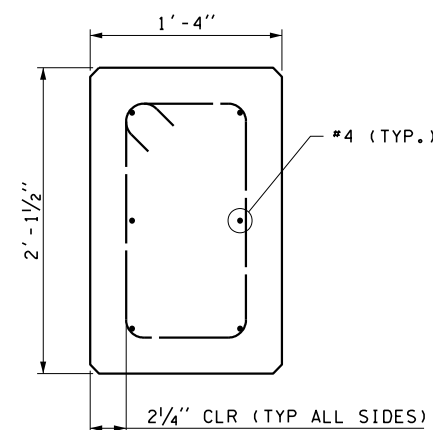


RFI 106



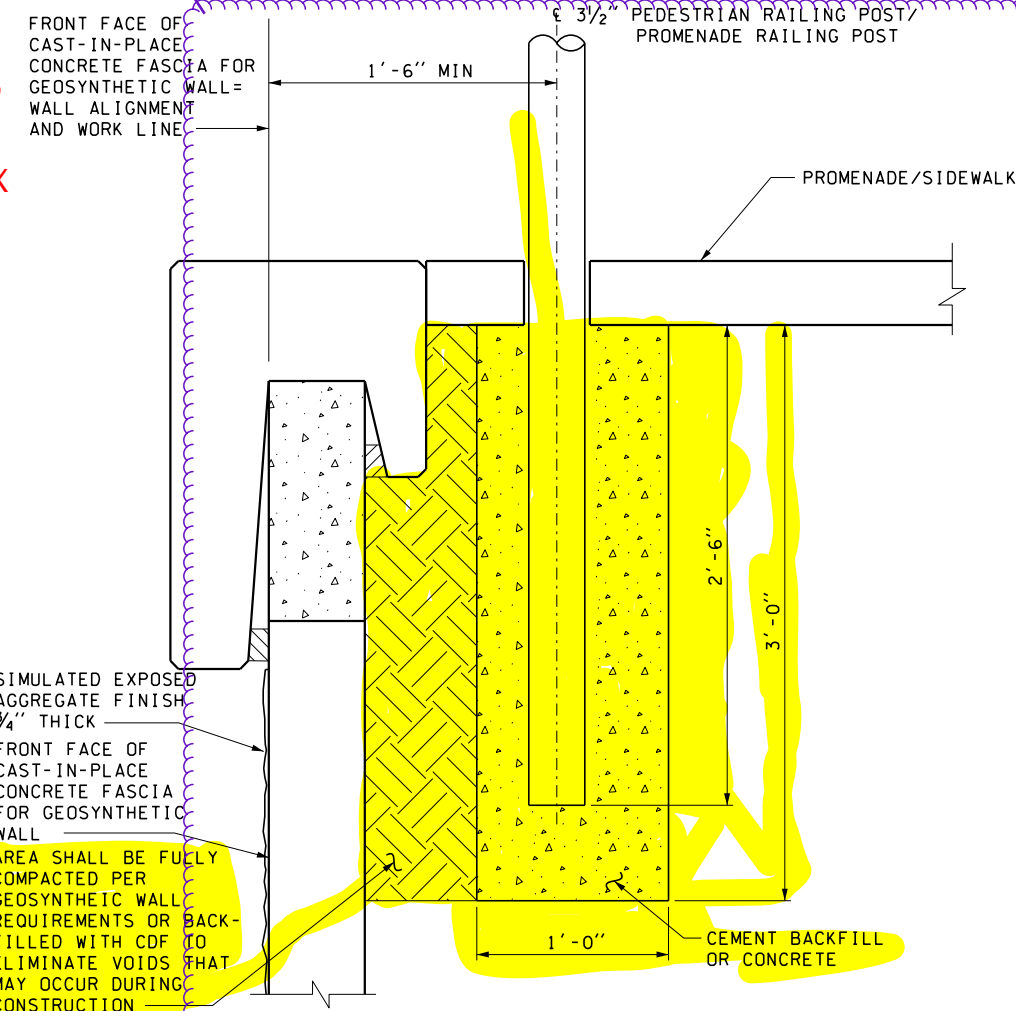
COPING TYPICAL REINFORCEMENT  
WALLS 1,2\*,5 & 7

\* GEOSYNTHETIC RETAINING WALL SEGMENT



## TYPICAL COPING END SECTION

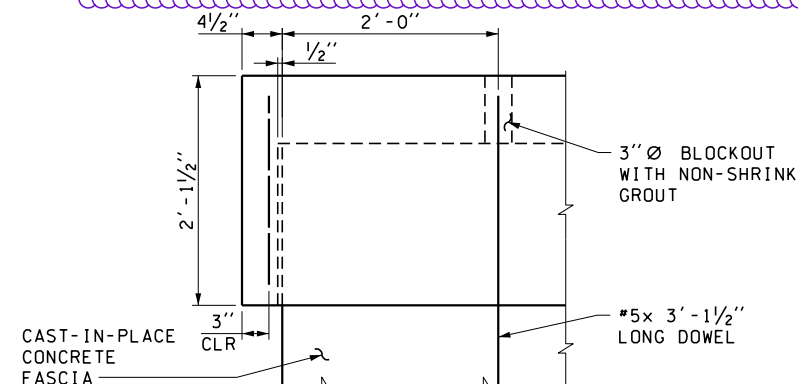
NOT TO SCALE



RAILING POST WITH COPING  
TYPICAL WALLS 1,2,5\* & 7\*\*

\* GEOSYNTHETIC RETAINING WALL SEGMENT

\*\* PEDESTRIAN RAILING TYPE DIFFERS FROM  
 SHOWN. SEE SHEET C15.32 FOR PEDESTRIAN  
 RAILING DETAIL FOR WALLS 5 AND 7

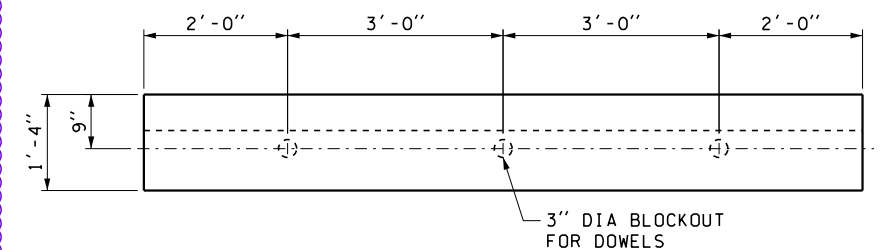


### TYPICAL COPING OVERHANG DETAIL

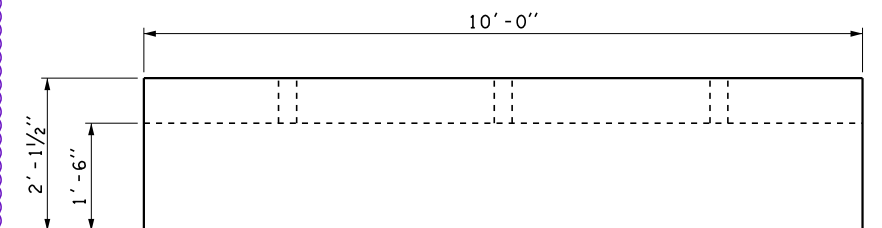
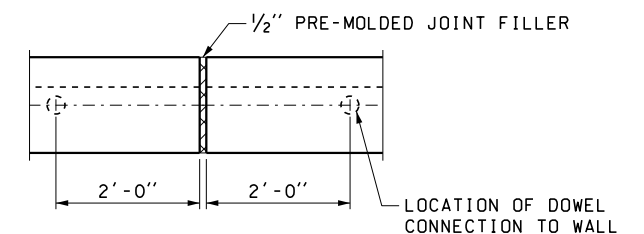
NOT TO SCALE

NOTES:


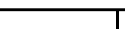
1. PLAN LENGTH OF PRECAST CAP SEGMENTS SHALL BE 10'-0" MAX.
2. SHIM RETAINING WALL CAP AS NEEDED TO ACHIEVE LEVEL CONSTRUCTION.
3. RETAINING WALL CAP SHALL HAVE A CLOSED END AT THE BEGINNING AND THE END OF OF THE WALL.
4. PLACE DOWELS TO AVOID WALL REINFORCEMENT.



## PLAN

ELEVATION

### PRECAST JOINT DETAIL

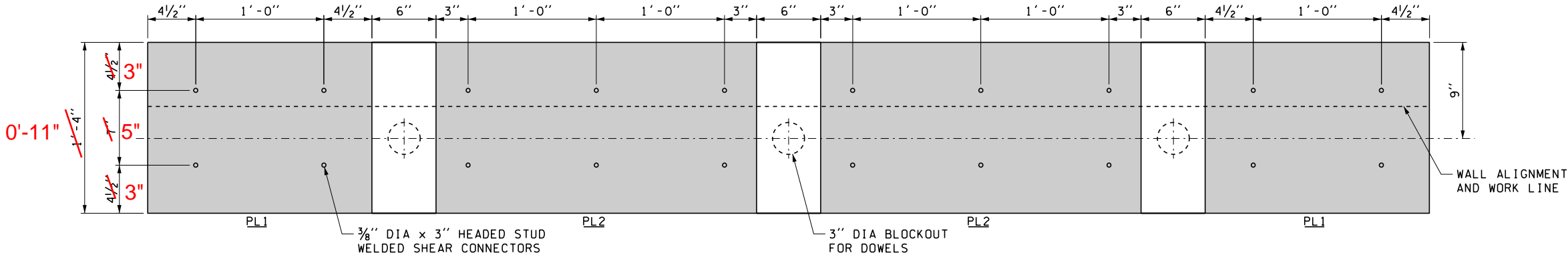
FILE NAME: WSW\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$												 <b>Washington State</b> <b>Department of Transportation</b> WASHINGTON STATE FERRIES		SR 525		C15.30
PRINTED: \$\$TIME\$\$    \$\$DATE\$\$		LAST PRINTED BY:		FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)										
SUBMITTAL DATE: 1/18/19		*USERNAME*				FERRY TERMINAL CONSTRUCTION		SHEET								
DESIGNED BY: K. BICHICH		1/18/19		WA-2017-007-00				338								
ENTERED BY: D. PERRY		1/18/19		REGION NO. STATE				OF								
CHECKED BY: G. CALLAHAN		1/18/19		10 WASH				1521								
MAR PROJ ENGR: C. TORRES				JOB NUMBER 18W121				SHEETS								
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS 1/18/19		CONTRACT NO. 009321												
ASST SECRETARY: A. SCARTON		REVISION		DATE BY												



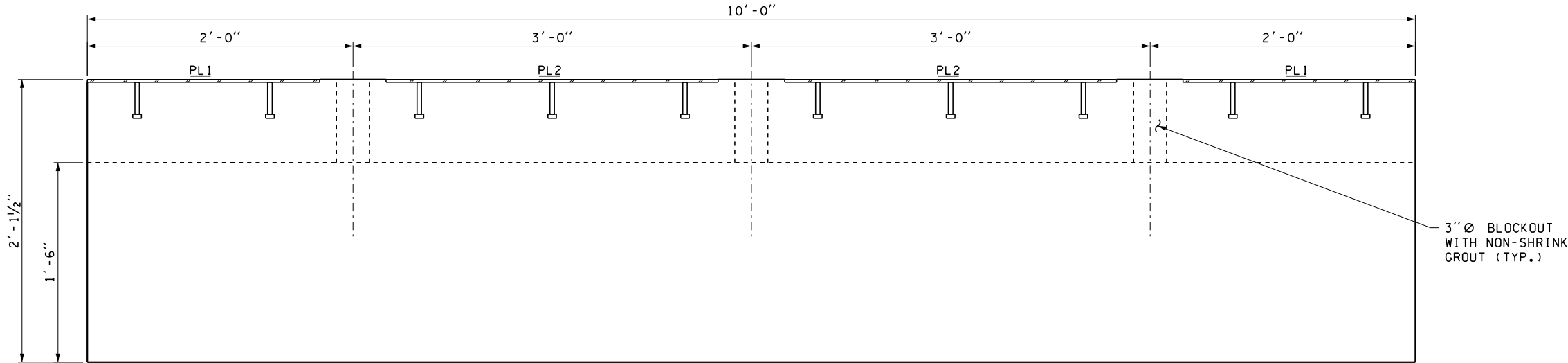
RFI 294  
9/13/19

NOTES:

1. LANDING PAD SHALL BE PLACED ON 2 CAP SEGMENTS IN FRONT OF FISHING PIER.
2. PRECAST CAP JOINTS SHALL COINCIDE WITH PANEL FACING JOINTS.
3. SHIM RETAINING WALL CAP AS NEEDED TO ACHIEVE LEVEL CONSTRUCTION.
4. RETAINING WALL CAP SHALL HAVE A CLOSED END AT THE BEGINNING AND THE END OF OF THE WALL.
5. PLACE HEADED STUDS TO AVOID COPING REINFORCEMENT.
6. PL1: PL 1/4"x16"x1'-9"  
PL2: PL 1/4"x16"x2'-6"
7. PROVIDE 1/8" Ø VENT HOLES IN PLATES TO ALLOW AIR TO ESCAPE DURING WET SETTING.
8. FISHING PIER LANDING PAD PLATES SHALL BE HOT DIP GALVANIZED PER FISHING PIER SPECIFICATIONS PRIOR TO EMBEDMENT INTO COPING.
9. HEADED STUD WELDED SHEAR CONNECTORS SHALL BE HOT DIP GALVANIZED PER AASHTO SPECIFICATION M232.
10. FISHING PIER LANDING PAD LIMITS SHALL MATCH FISHING PIER WIDTH.

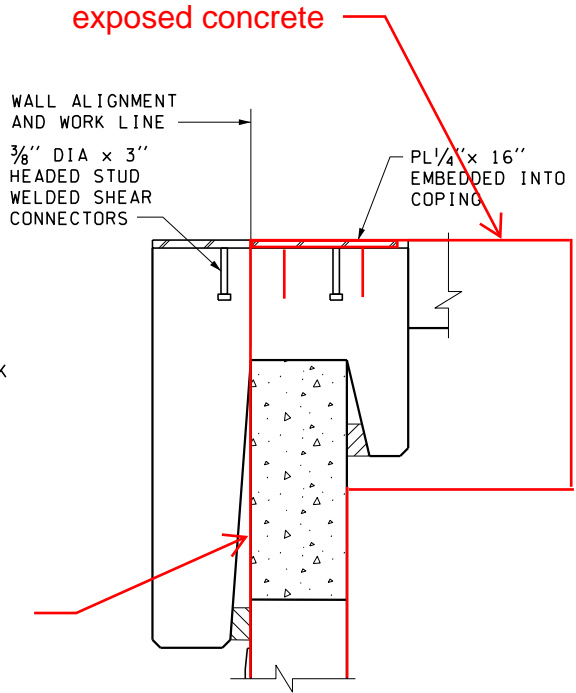


FISHING PIER LANDING PAD - PLAN



FISHING PIER LANDING PAD - ELEVATION

proposed IMCO  
detail



COPING WITH  
FISHING PIER LANDING PAD

JACOBS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$				
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		#USERNAME#		WA-2017-007-00
DESIGNED BY: K. BICHICH	1/18/19			REGION NO. STATE
ENTERED BY: D. PERRY	1/18/19			10 WASH
CHECKED BY: G. CALLAHAN	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

COPING DETAILS 2

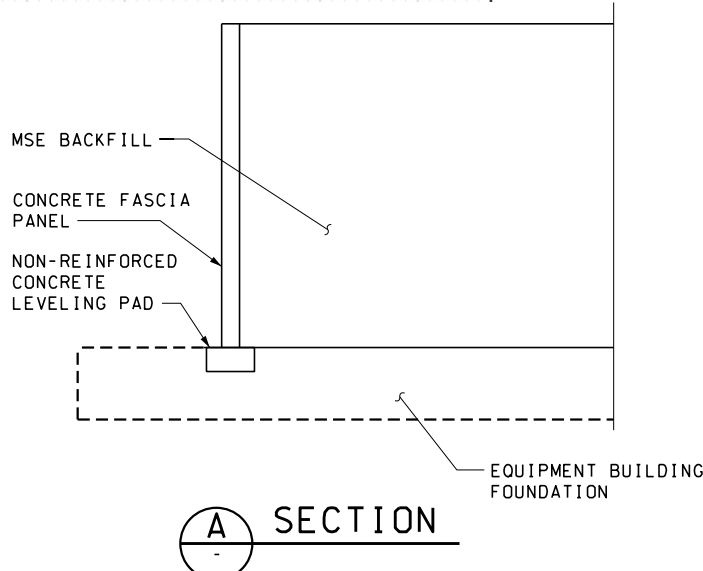
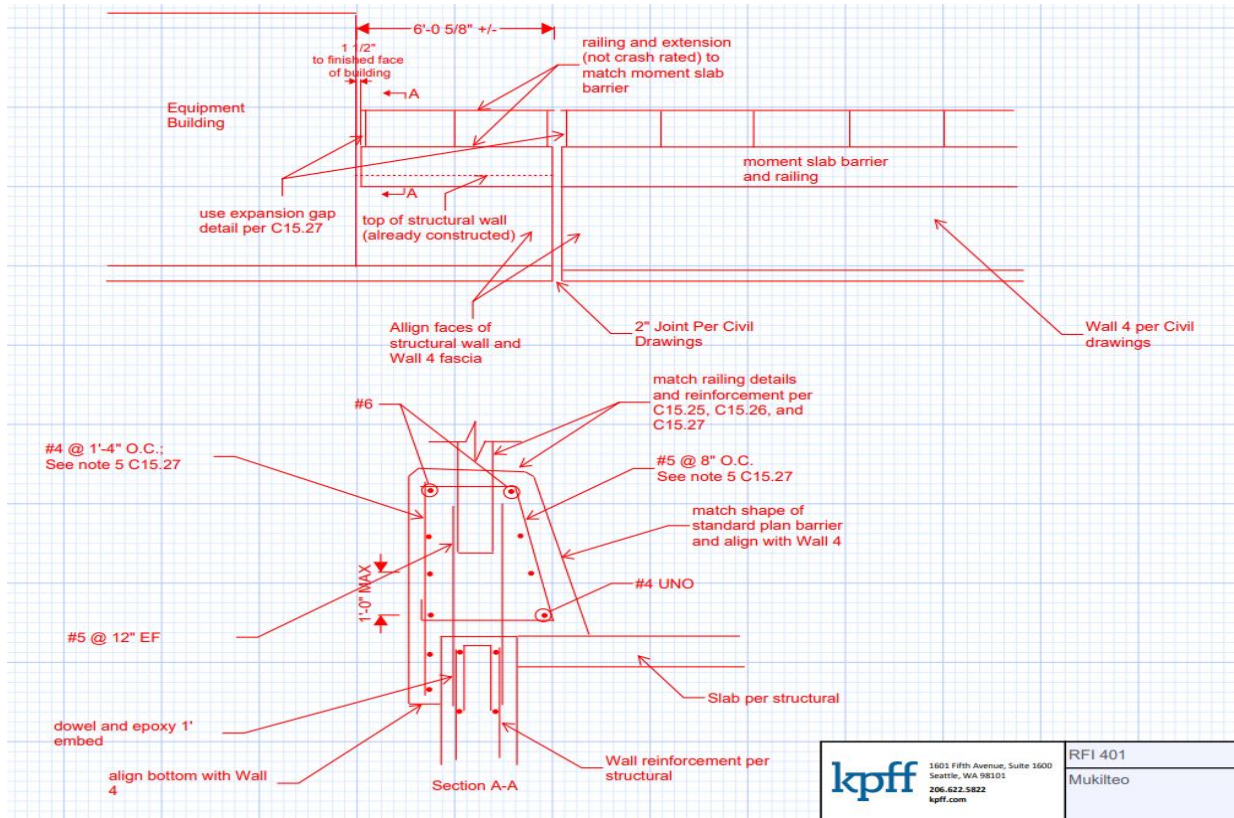
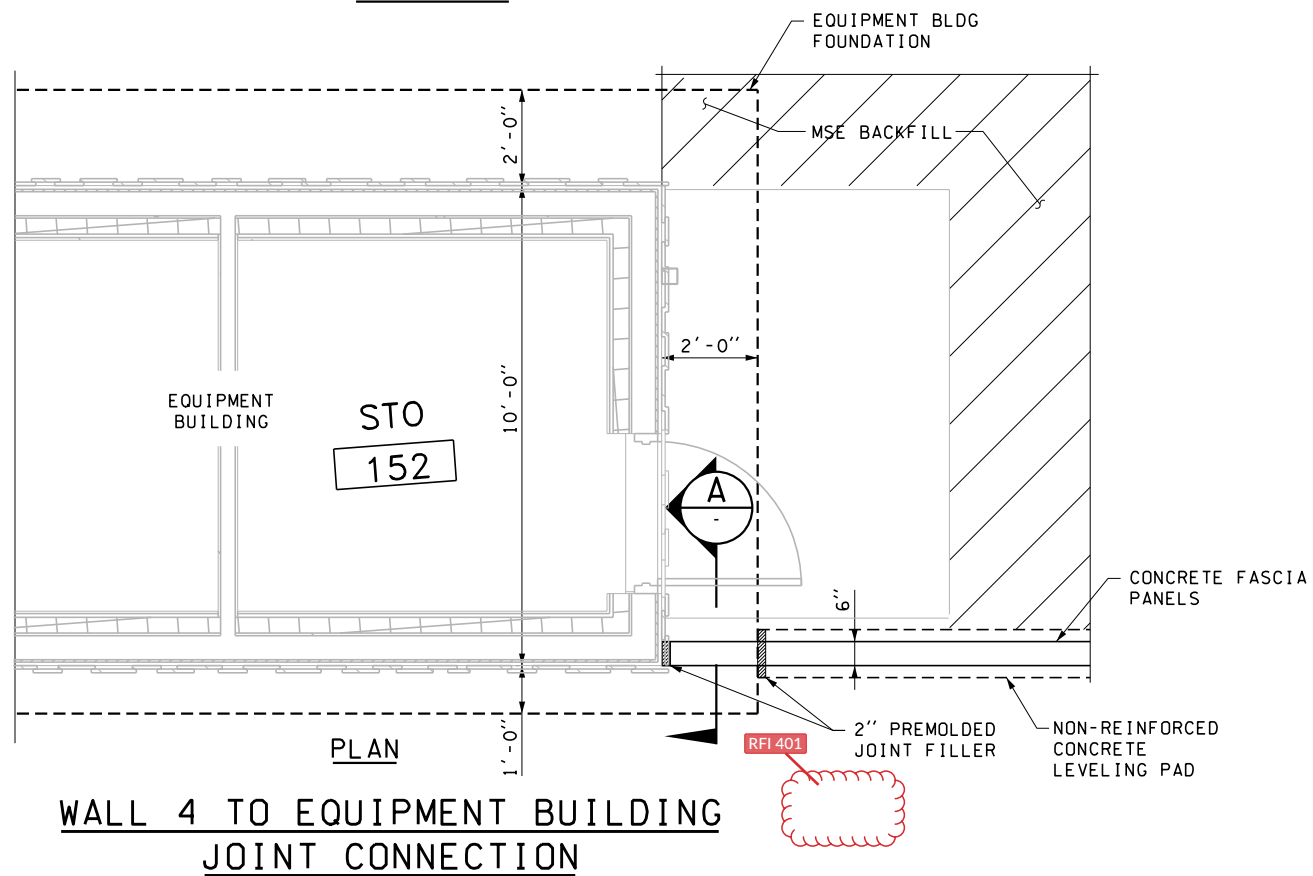
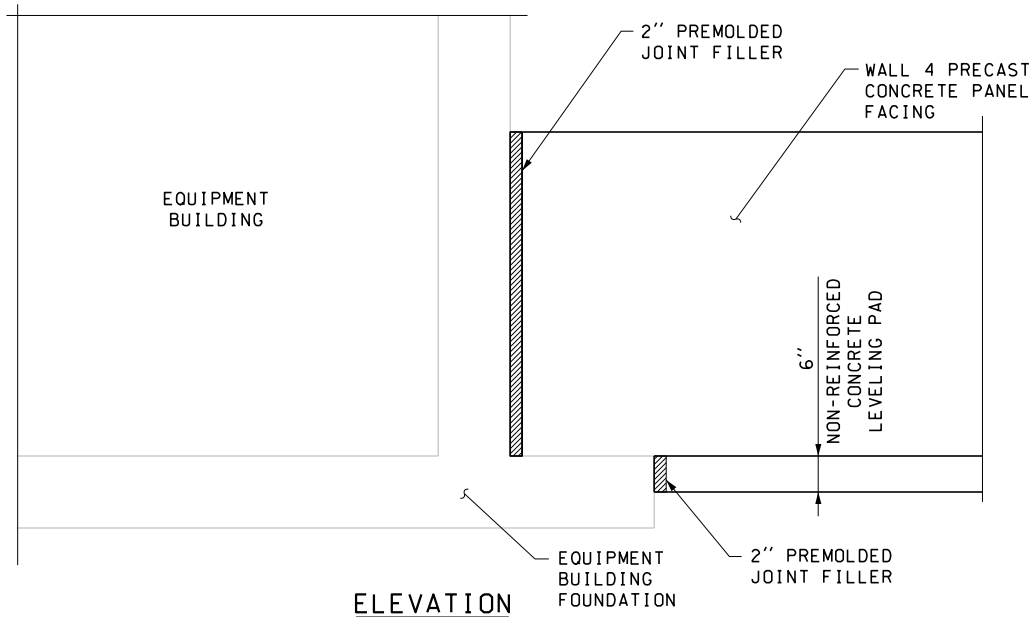
C15.31

SHEET  
339  
OF  
1521  
SHEETS



NOTES:

1. WALL 4 TO BE CONSTRUCTED AFTER EQUIPMENT BUILDING FOUNDATION.
2. FOR INFORMATION REGARDING BUILDINGS REFER TO BUILDING SHEETS.



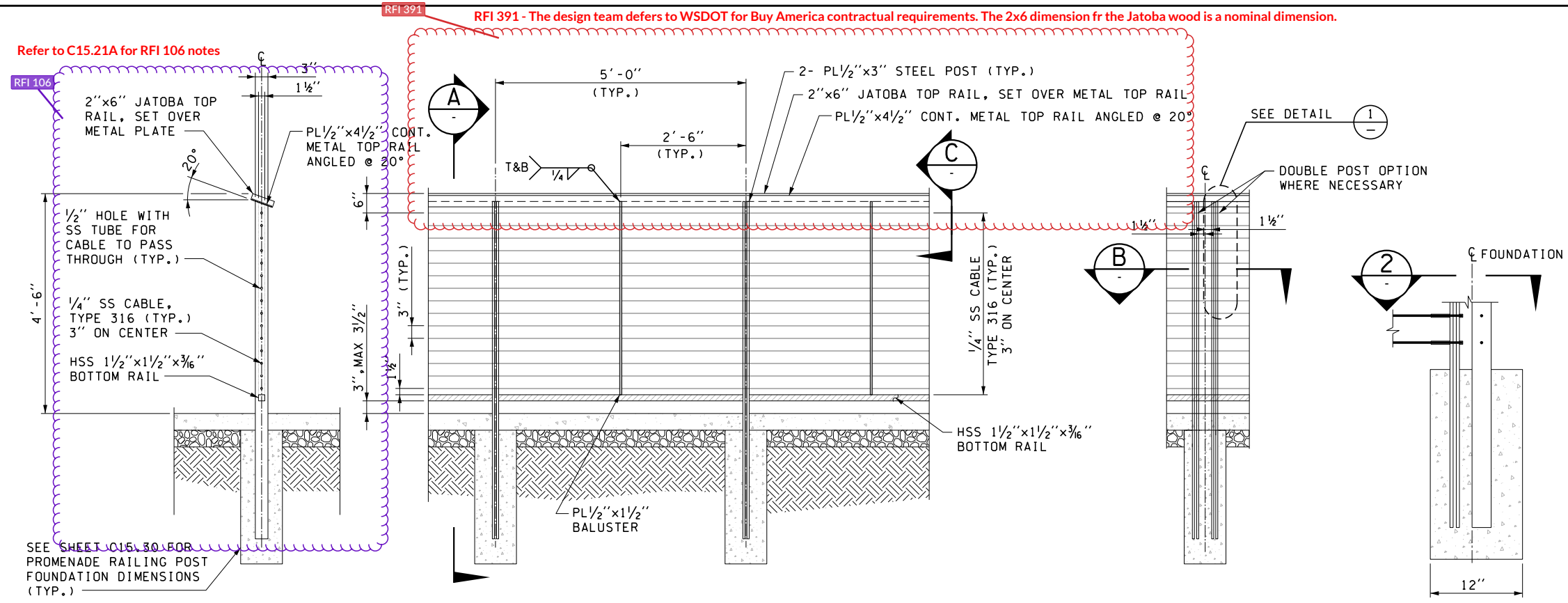
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		#USERNAME#				WA-2017-007-00			
DESIGNED BY: K. BICHICH	1/18/19					REGION NO. STATE	10 WASH		
ENTERED BY: D. PERRY	1/18/19					JOB NUMBER	18W121		
CHECKED BY: G. CALLAHAN	1/18/19					CONTRACT NO.	009321		
MAR PROJ ENGR: C. TORRES									
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19						
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY					



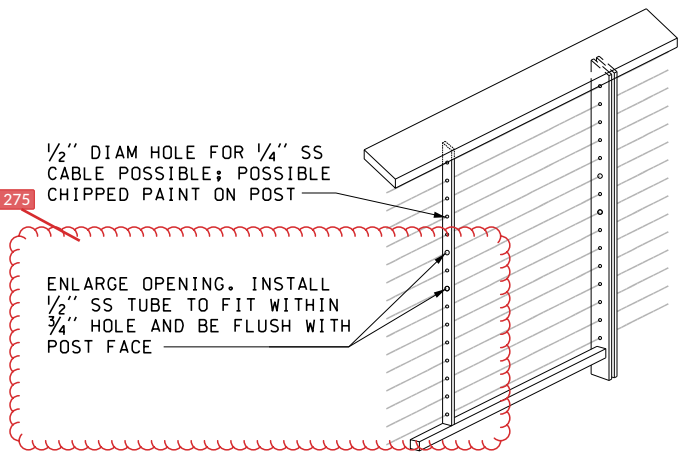
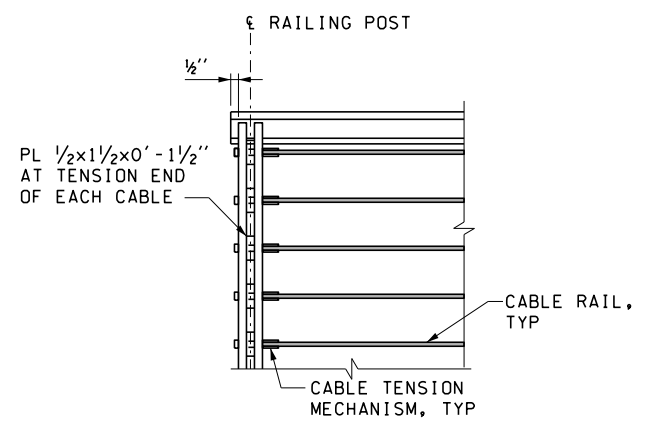
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
WALL 4 TO EQUIPMENT BUILDING JOINT CONNECTION

C15.32  
SHEET 340 OF 1521 SHEETS

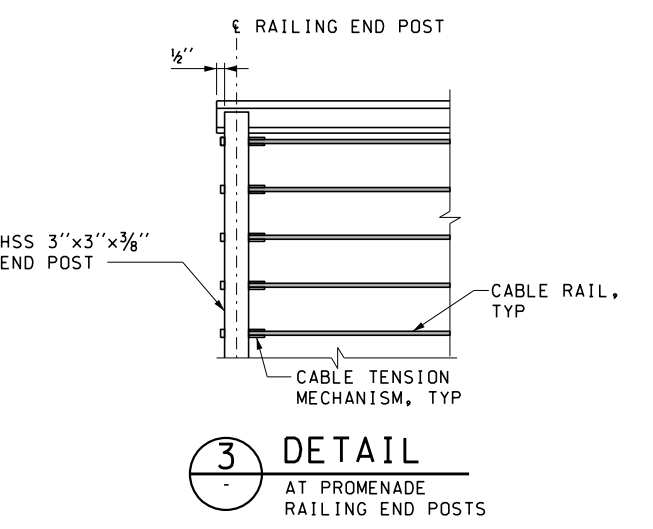
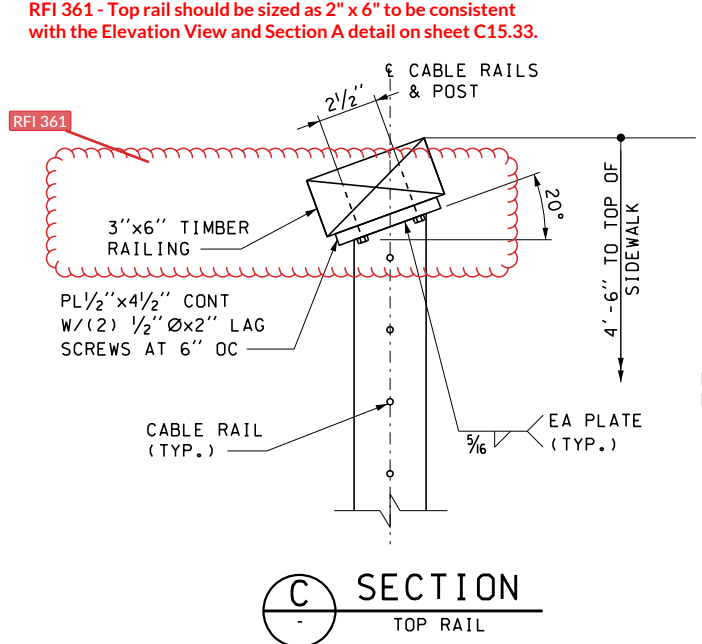
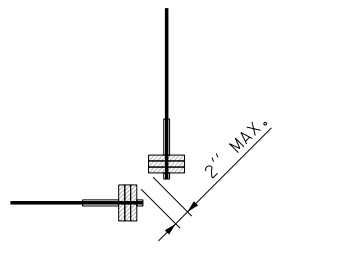
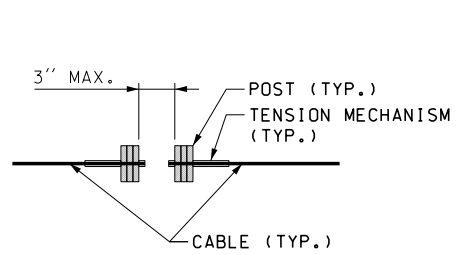




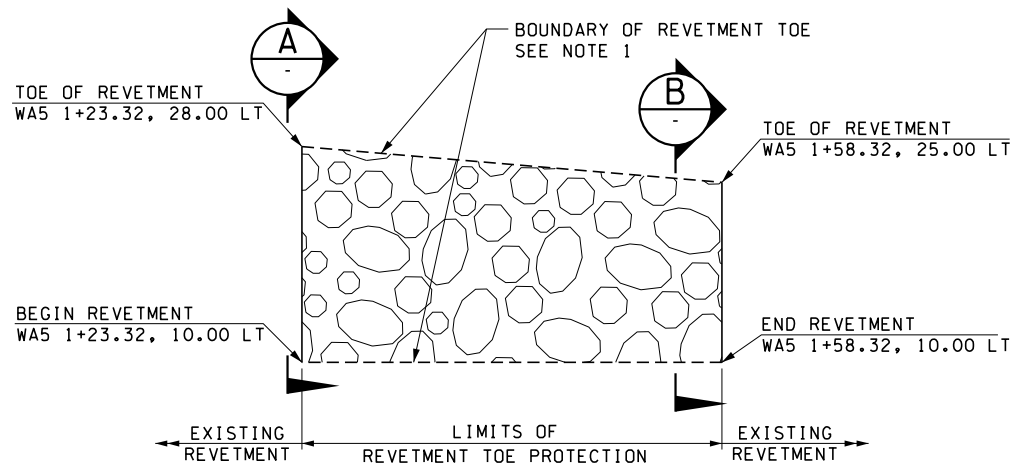
- NOTES:**
- MATERIAL REQUIREMENTS SHALL BE:  
  
STEEL PLATES AND BARS  
- ASTM A 36 GR. 36  
  
STEEL RECTANGULAR TUBE:  
- ASTM A500 GR B  
  
STAINLESS STEEL CABLE SYSTEM  
1/4" SS CABLE:  
- 1 X 19, TYPE 316  
1/2" STAINLESS STEEL TUBE:  
- ASTM A554 GRADE MT 316L  
FASTENER COMPONENTS:  
- TYPE 316
  - ALL PLATES AND RAILS CONNECTED BY 1/4" FILLET WELD UNLESS OTHERWISE NOTED.



RFI 275 - It is acceptable to omit the SS tubes and substitute black cable grommets. Provide grommets to fit the final inner dimension of the drilled hole sizes with coating.



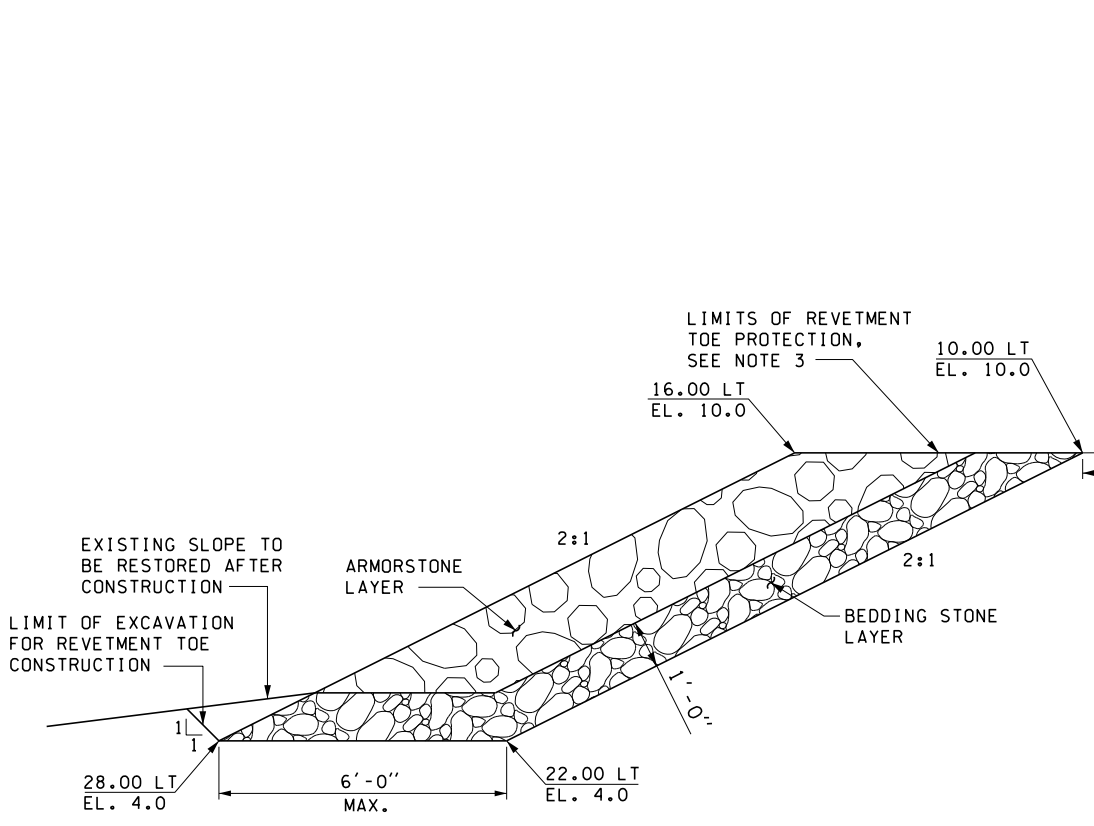




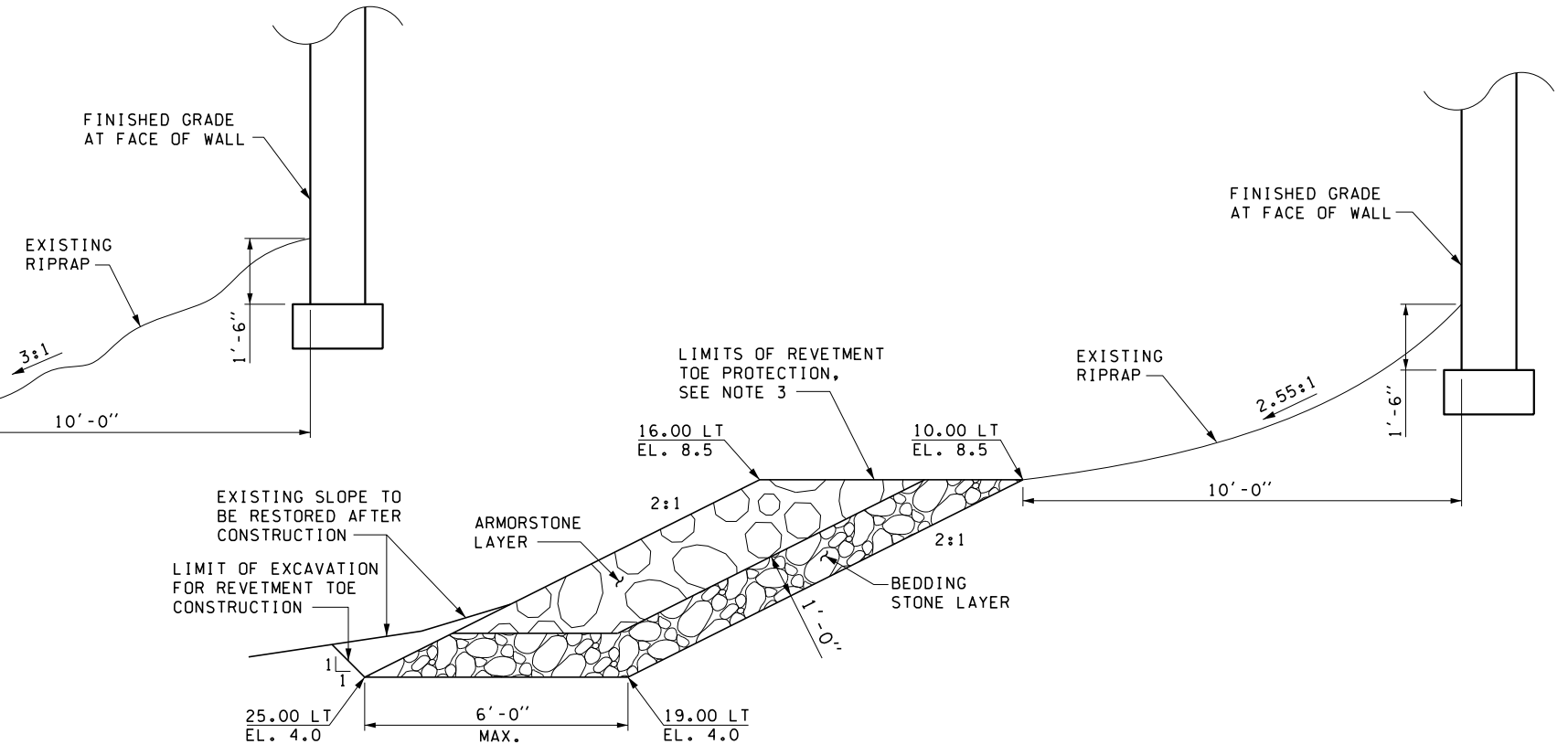
PLAN

NOTES:

1. THE CONTRACTOR SHALL ESTABLISH AND COORDINATE WITH THE ENGINEER THE EXACT BOUNDARY OF THE REVETMENT TOE PROTECTION.
2. CONTRACTOR SHALL RESTORE REVETMENT TO THE PRE-CONSTRUCTION CONDITIONS WHERE EXISTING REVETMENT IS DISTURBED OR REMOVED FOR WALL AND/OR INSTALLED REVETMENT TOE PROTECTION.
3. ELEVATIONS ARE VARIABLE ALONG LIMITS OF REVETMENT TOE PROTECTION AND SHALL BE CONSISTENT WITH ELEVATION OF ADJACENT EXISTING REVETMENT.



A SECTION  
WA5 1+23.32



B SECTION  
WA5 1+58.32

JACOBS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ \$FILES\$									
PRINTED: \$\$TIME\$\$	\$\$DATE\$\$	LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 1/18/19		#USERNAME#					WA-2017-007-00		
DESIGNED BY: K. BICHICH	1/18/19						REGION NO. STATE		
ENTERED BY: R. REISER	1/18/19						10 WASH		
CHECKED BY: G. CALLAHAN	1/18/19						JOB NUMBER		
MAR PROJ ENGR: C. TORRES							18W121		
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	GC			CONTRACT NO.		
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY			009321		



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
WALL 5 OVERLOOK  
REKETMENT TOE DETAILS

C15.34  
SHEET  
341A  
OF  
1521  
SHEETS



SYMBOLS

-----	TRAFFIC SIGNAL CONDUIT
— BF —	FIBER OPTIC INTERCONNECT CONDUIT
⊠	TYPE 1 JUNCTION BOX
⊞	TYPE 2 JUNCTION BOX
⊟	TYPE 8 JUNCTION BOX
PB	PULL BOX
SCV	SMALL CABLE VAULT
⊠	SIGNAL CONTROLLER CABINET
⊞	UNINTERRUPTIBLE POWER SUPPLY (UPS)
⊟	TYPE 3 INDUCTION LOOP
⊠	DIAMOND INDUCTION LOOP
⊞	EMERGENCY VEHICLE PRE-EMPTION DETECTOR
←	VEHICLE SIGNAL HEAD
↔	PEDESTRIAN SIGNAL HEAD
⊞	PEDESTRIAN PUSH BUTTON
⊟	FIXED-MOUNT CCTV CAMERA
⊠	PTZ CCTV CAMERA
⊞	VIDEO DETECTION CAMERA
⊟	MAST ARM MOUNTED SIGN
⊠	BLANK-OUT SIGN
⊟⊠	TYPE 3 SIGNAL STANDARD
⊞	TYPE 1, PS, OR PEDESTRIAN PUSH BUTTON POLE
⊠	POLE NOTE
⊟	WIRE NOTE
⊞	MAST ARM SIGN INSTALLATION NOTE
⊠	CONSTRUCTION NOTE

SIGNAL GENERAL NOTES

1. ALL SIGNAL HEADS SHALL USE TUNNEL VISORS AND BACKPLATES. BACKPLATES SHALL HAVE YELLOW REFLECTIVE TAPE.
2. MAST ARM MOUNTED VEHICLE SIGNAL HEADS SHALL USE MOUNTING TYPE "M" AND POLE MOUNTED VEHICLE HEADS SHALL USE MOUNTING TYPE "K". PEDESTRIAN SIGNAL HEADS SHALL USE MOUNTING TYPE "D" ON ALL PS POLES.
3. ALL PEDESTRIAN PUSHBUTTON ASSEMBLIES SHALL BE FOUR-WIRE TYPE ACCESSIBLE PEDESTRIAN SIGNAL (APS) PUSHBUTTON ASSEMBLIES.
4. INSTALL PUSHBUTTON ASSEMBLY CONTROL BOARD IN EACH PEDESTRIAN SIGNAL HEAD HOUSING. TERMINATE THE 4C CABLES PER MANUFACTURER'S RECOMMENDATIONS.
5. SEE SHEET C16.51 FOR FIXED-MOUNT CCTV CAMERA CONNECTION AND MOUNTING DETAILS. REFER TO WSDOT STANDARD PLANS J-29.15-01 AND MANUFACTURER'S RECOMMENDATIONS FOR PTZ CCTV CAMERA MOUNTING DETAILS.
6. SEE C12 SERIES SHEETS FOR MAST ARM MOUNTED SIGN DETAILS.
7. ALL JUNCTION BOXES, PULL BOXES, AND SMALL CABLE VAULTS SHALL BE INSTALLED OUTSIDE OF WALKWAYS, IF POSSIBLE. ALL NEW JUNCTION BOXES, PULL BOXES, AND SMALL CABLE VAULTS WITHIN SIDEWALKS SHALL HAVE SLIP RESISTANT LIDS. THEY SHALL REMAIN WITHIN WSDOT RIGHT-OF-WAY.
8. ALL JUNCTION BOXES, PULL BOXES, AND SMALL CABLE VAULTS SHALL BE INSTALLED SUCH THAT THEY ARE NOT DIRECTLY IN FRONT OF ANY CABINET DOORS. THEY MUST BE TO THE SIDE OF THE DOORS OR AT LEAST 3 FEET AWAY FROM THE CABINET.
9. INSTALL A ONE-FOOT WIDE AND ONE-FOOT DEEP RECTANGULAR CONCRETE COLLAR AROUND THE PERIMETER OF EACH NEW TYPE 1 AND TYPE 2 JUNCTION BOX INSTALLED IN SOIL. THE EXPOSED PORTIONS SHALL BE FORMED TO HAVE A NEAT APPEARANCE. THE OUTSIDE EDGES OF THE COLLAR SHALL HAVE A 3/4-INCH CHAMFER. THE CONCRETE MIX DESIGN SHALL BE COMMERCIAL CONCRETE PER STANDARD SPECIFICATION 6-02.3(2)B.
10. ALL SPARE SIGNAL CONDUCTORS SHALL BE COILED NEATLY IN THE PULL BOX ADJACENT TO THE SIGNAL CONTROLLER CABINET.

As built as of 8/2020

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c16-00.dwg								SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION	SIGNALIZATION GENERAL NOTES, ABBREVIATIONS, AND SYMBOLS	C16.00 SHEET 342 OF 1521 SHEETS
PRINTED: 11:53:40 AM 2/23/2018	LAST PRINTED BY:				FED.AID PROJ.NO.					
SUBMITTAL DATE: 12/22/17	CONTRACT NO.				WA-2017-007-00					
DESIGNED BY: S. THOMS	2/23/2018				REGION NO. STATE					
ENTERED BY: S. THOMS	2/23/2018				10 WASH					
CHECKED BY: S. KRISHNAN	2/23/2018				JOB NUMBER 18W121					
MAR PROJ ENGR: C. TORRES					CONTRACT NO. 00*****					
DIR TERM ENGR: N. MCINTOSH										
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY						





## PREEMPTION SCHEDULE

SIGNAL CONSTRUCTION NOTES:

- ## WIRING SCHEDULE

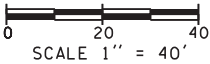
\* PRETERMINATED PATCH PANEL STUB

### PHASE DIAGRAM

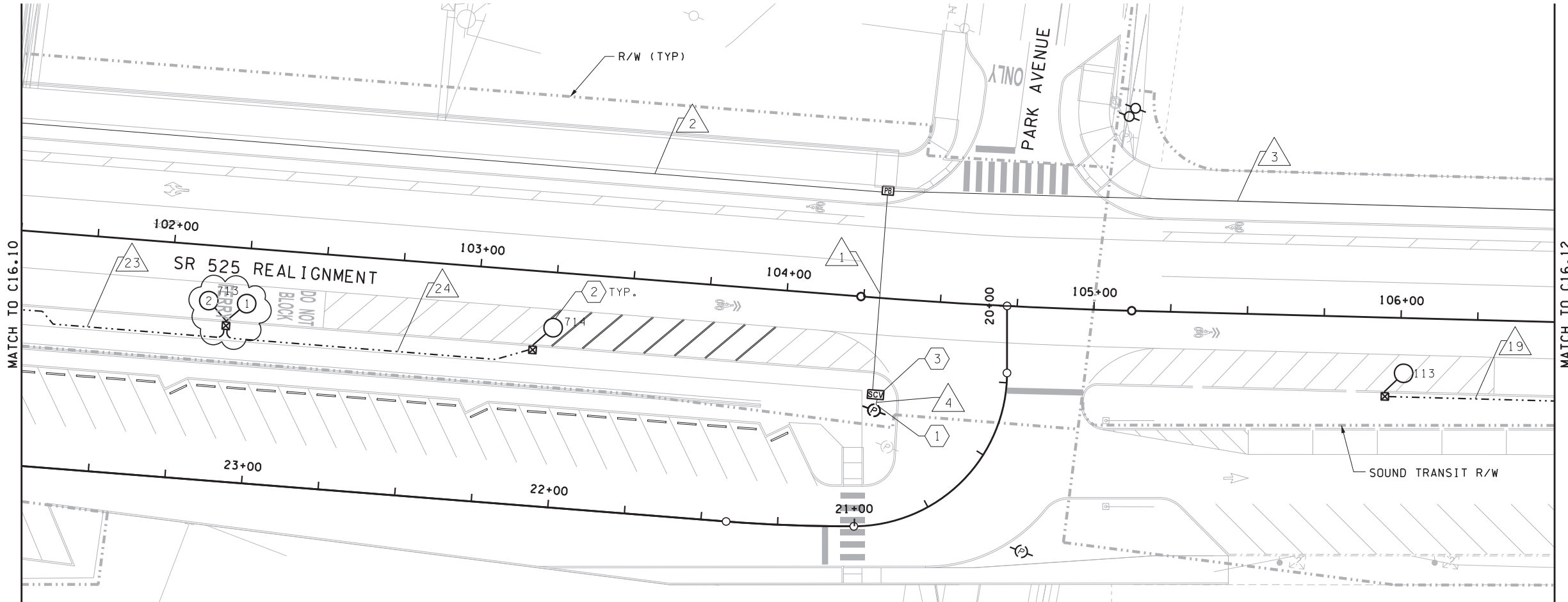


## OPERATIONAL NOTES

- ## KEY PLAN



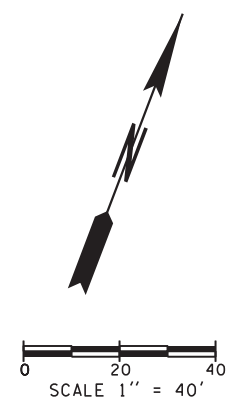
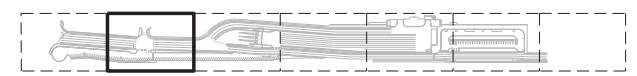




- CONSTRUCTION NOTES:**
- 1 CONNECT NEW CONDUIT TO POWER POLE. SEE SHEET ESO2.11. RUN EXISTING FIBER OPTIC TO NEW SMALL CABLE VAULT.
  - 2 INSTALL TYPE 3 INDUCTION LOOP DETECTOR(S). FOR LOOP INSTALLATION DETAIL SEE WSDOT STANDARD DETAIL SHEETS J-50.12-00 (4 LOCATIONS).
  - 3 SPLICE NEW FIBER OPTIC WITH EXISTING FIBER OPTIC IN SMALL CABLE VAULT.

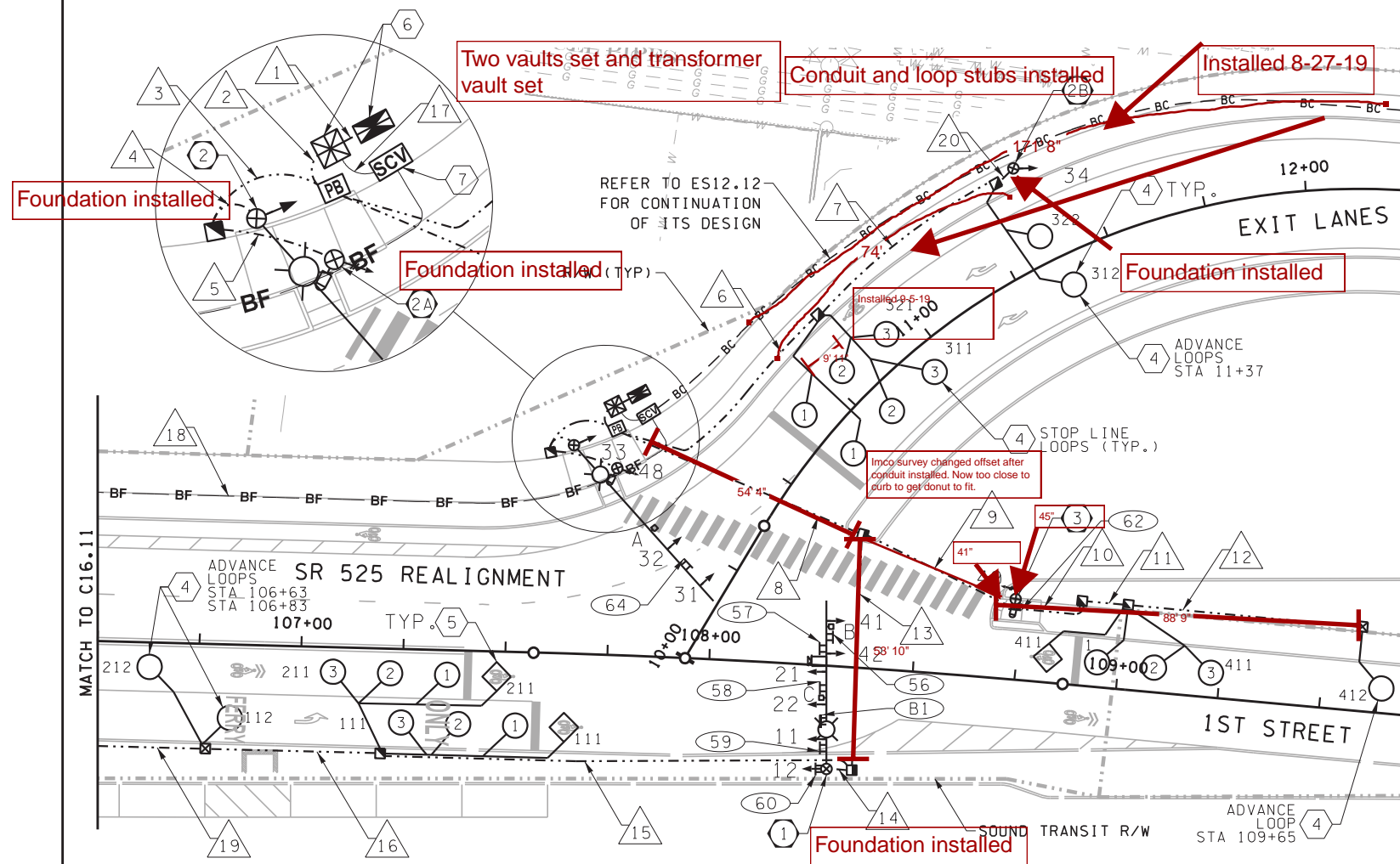
WIRING SCHEDULE					
△ NO.	CONDUIT SIZE	12 SMFO	24 SMFO	P/V DETECT 2C(S)	#8 GROUND
1	2"	1			
2	2"	1	1		
3	2"		1		
4	2"	1 EXIST			
19	2"			1	1
23	2"			3	1
24	2"			1	1

REFER TO SHEET E001.01 FOR FIBER SYSTEM BLOCK DIAGRAM.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121c16-11.dwg				FED.AID PROJ.NO. WA-2017-007-00		REGION NO. STATE 10 WASH	JOB NUMBER 18W121	CONTRACT NO. 00****			Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		C16.11											
PRINTED: 9:10:58 AM 8/23/2018		LAST PRINTED BY: nespodzanyR										SIGNALIZATION INTERCONNECT			SHEET 344 OF 1521 SHEETS										
SUBMITTAL DATE: 08/23/18		DESIGNED BY: S. THOMS		8/23/2018		ENTERED BY: S. THOMS		8/23/2018		CHECKED BY: S. KRISHNAN		8/23/2018		MAR PROJ ENGR: C. TORRES		DIR TERM ENGR: N. MCINTOSH		ASST SECRETARY: A. SCARTON		REVISION		DATE		BY	





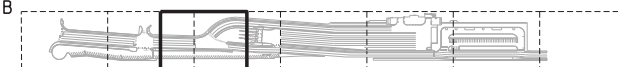
### SIGNAL CONSTRUCTION NOTES:

- 1 CONSTRUCT FOUNDATION AND INSTALL TYPE 3 SIGNAL STANDARD WITH LUMINAIRE AND SIGNAL MAST ARM. INSTALL FIVE VEHICLE SIGNAL HEADS, TWO EVP DETECTORS, FOUR SIGNS, ONE BLANK-OUT SIGN, AND FIXED-MOUNT CAMERA SR525E PER C16.51 ON MAST ARM. INSTALL LUMINAIRE ON LUMINAIRE ARM PER ILLUMINATION PLAN. INSTALL ONE VEHICLE HEAD, ONE SIGN, AND ONE TERMINAL CABINET ON THE POLE. FOR POLE LOCATION AND DETAILS SEE SHEET C16.21. FOR CAMERA INSTALLATION DETAILS SEE C16.51.
- 2 CONSTRUCT FOUNDATION AND INSTALL TYPE 3 SIGNAL STANDARD WITH LUMINAIRE AND SIGNAL MAST ARM. INSTALL TWO VEHICLE SIGNAL HEADS, ONE EVP DETECTOR, AND ONE SIGN ON MAST ARM. INSTALL LUMINAIRE ON LUMINAIRE ARM PER ILLUMINATION PLAN. INSTALL ONE VEHICLE SIGNAL HEAD AND ONE TERMINAL CABINET ON THE POLE. FOR POLE LOCATION AND DETAILS SEE SHEET C16.21.
- 2A INSTALL TYPE PS SIGNAL STANDARD WITH SLIP BASE PER WSDOT STANDARD PLANS J-20.10-03. INSTALL ONE APS PUSH BUTTON ASSEMBLY AND ONE LED COUNTDOWN PEDESTRIAN SIGNAL DISPLAY. FOR POLE LOCATION AND DETAILS SEE SHEET C16.21.
- 2B INSTALL TYPE I SIGNAL STANDARD WITH SLIP BASE PER WSDOT STANDARD PLANS J-21.10-04. INSTALL ONE VEHICLE SIGNAL HEAD. FOR POLE LOCATION AND DETAILS SEE SHEET C16.21.
- 3 INSTALL TYPE I SIGNAL STANDARD WITH SLIP BASE PER WSDOT STANDARD PLANS J-20.11-02. INSTALL ONE APS PUSH BUTTON ASSEMBLY AND ONE LED COUNTDOWN PEDESTRIAN SIGNAL DISPLAY. FOR POLE LOCATION AND DETAILS SEE SHEET C16.21.
- 4 INSTALL TYPE 3 INDUCTION LOOP DETECTOR(S). FOR LOOP INSTALLATION DETAIL SEE WSDOT STANDARD DETAIL SHEETS J-50.12-01 (20 LOCATIONS).
- 5 INSTALL DIAMOND INDUCTION LOOP DETECTOR(S) FOR BICYCLE DETECTION. SEE DETAIL THIS SHEET. FOR LOOP INSTALLATION DETAIL SEE WSDOT STANDARD DETAIL SHEETS J-50.11-01 (3 LOCATIONS).
- 6 CONSTRUCT TWO-CABINET FOUNDATION PER WSDOT STANDARD DETAIL SHEET J-10.10-03. INSTALL TYPE 332D SIGNAL CONTROLLER CABINET (NAME: TOLL PLAZA) AND UNINTERRUPTIBLE POWER SUPPLY (525UP00858). ALL CABINET DOORS SHALL OPEN TO THE NORTHWEST SO A TECHNICIAN LOOKING INTO THE CABINETS IS ALSO FACING THE INTERSECTION. INSTALL 72-PORT PRETERMINATED PATCH PANEL, COMMUNICATION HARDWARE, AND FIXED-MOUNT CAMERA EQUIPMENT IN CONTROLLER CABINET. SEE ES02.12 FOR POWER SERVICE CONNECTION.
- 7 SPLICE FIBER OPTIC CABLES TO PRETERMINATED PATCH PANEL PER SHEET EB11.01.

### WIRING SCHEDULE

NO.	CONDUIT SIZE	P/V DETECT 2C(S)	E.V. DETECT 3C(S)	P/V HEAD 5C	12 SMFO	24 SMFO	72 SMFO	CCTV cat+6	POWER #6	GROUND #8	REMARKS
1	3"							1	3	1	SIGNAL POWER
	2"									1	SPARE
	2"									1	
2	3"	21	3	9						1	
	3"	2						1		1	
	2"	3								1	SPARE
	2"									1	
3	3"	1	1	2						1	
4	3"		1	1						1	
5	2"	1		1						1	
6	3"	8		1						1	
7	2"	2		1						1	
	3"	9	2	6						1	
8	3"	8						1		1	
	3"									1	SPARE
9	3"	6		1						1	
	3"									1	SPARE
10	2"	1		1						1	
11	2"	5								1	
12	2"	1								1	
	3"	11	2	5				1		1	
13	3"									1	SPARE
	3"							1		1	
14	3"		2	5						1	
15	3"	11								1	
16	2"	3								1	
	2"						1				INTERCONNECT *
17	2"									1	SPARE
	2"										INTERCONNECT
18	2"									1	
19	2"	1								1	
20	2"			1						1	

\* PRETERMINATED PATCH PANEL STUB



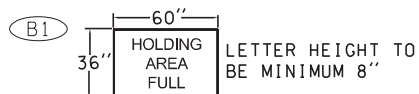
KEY PLAN

SCALE 1" = 40'

### APS PUSHBUTTON MESSAGES

PHASE	MESSAGE
4	WALK SIGN IS ON TO CROSS FERRY ACCESS

### BLANK-OUT SIGN DETAIL



### DIAMOND LOOP DETAIL

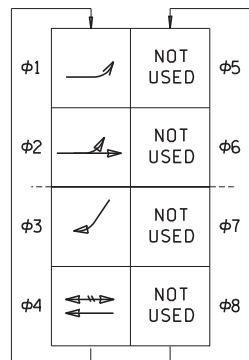
REFER TO WSDOT STANDARD DETAIL SHEET J-50.11-01 WITH MODIFIED SHAPE AND DIMENSIONS SHOWN BELOW.



### PREEMPTION SCHEDULE

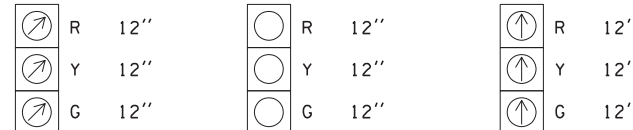
EVP	PHASE(S)	DETECTOR MODEL
A	3	OPTICOM 722
B	4	OPTICOM 711
C	1 & 2	OPTICOM 711 & OPTICOM 3100

### PHASE DIAGRAM



→ VEHICLE/BICYCLE MOVEMENT  
⇄ PED MOVEMENT  
OLA = 1 + 3  
OLB = 2 + 3

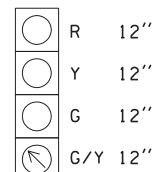
### PROPOSED SIGNAL HEADS



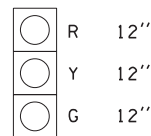
VEHICLE SIGNAL HEADS 31, 32, 33

VEHICLE SIGNAL HEAD 34

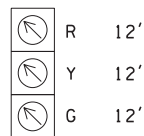
VEHICLE SIGNAL HEADS 41, 42



VEHICLE SIGNAL HEAD WITH GEOMETRICALLY PROGRAMMED LOUVERS 21



VEHICLE SIGNAL HEAD WITH GEOMETRICALLY PROGRAMMED LOUVERS 22



VEHICLE SIGNAL HEADS WITH GEOMETRICALLY PROGRAMMED LOUVERS 11, 12



PEDESTRIAN SIGNAL HEADS 48, 49

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\FILES

PRINTED: \$\$TIME\$\$ \$\$DATE\$\$

SUBMITTAL DATE: 12/22/17

DESIGNED BY: S. THOMS

ENTERED BY: S. THOMS

CHECKED BY: S. KRISHNAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

\$USER\$

\$DATE\$

\$DATE\$

\$DATE\$

\$DATE\$

\$DATE\$

\$DATE\$

REVISION

DATE

BY

FED.AID PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00\*\*\*\*



JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SIGNALIZATION PLAN  
SR525 REALIGNMENT AND 1ST STREET

C16.12

SHEET

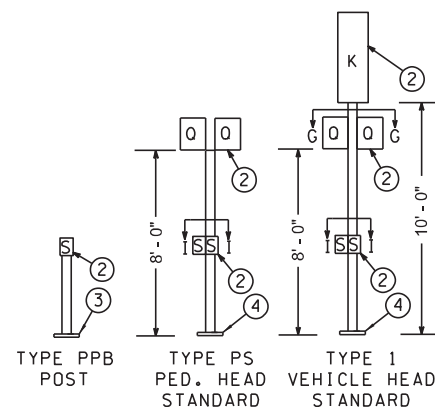
345

OF

1521

SHEETS





- ① MOUNTING COUPLING INSTALLED AT  
OFFSET DISTANCE INDICATED IN  
CHART.  
ALTERNATE NOTE 1 FOR TYPE N  
MOUNT ONLY:  
DRILL 1" HOLE IN MAST ARM AND  
INSTALL PLASTIC SPLIT BRUSHING  
FOR CABLE ENTRANCE.
- ② FIELD INSTALLED.

[illegible]

K.	VEHICLE HEAD DISPLAY	R.	TERMINAL CABINET
L.	MAST ARM MOUNTED SIGN	S.	PPB-M
M.	STREET NAME SIGN	T.	HANDHOLE
N.	PRE-EMT DETECTOR	U.	FLASHING LED TRAIN
O.	POST MOUNTED SIGN		APPROACHING SIGN
P.	LUMINAIRE	V.	CCTV CAMERA
Q.	PEDESTRIAN DISPLAY		

[illegible][illegible]

NOTE: TOP OF POLE FOUNDATIONS SHALL BE FLUSH WITH SIDEWALK ELEVATION.

CO  
O



02/23/2018

**Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES**

## SR525 AND SR525 REALIGNMENT

1521



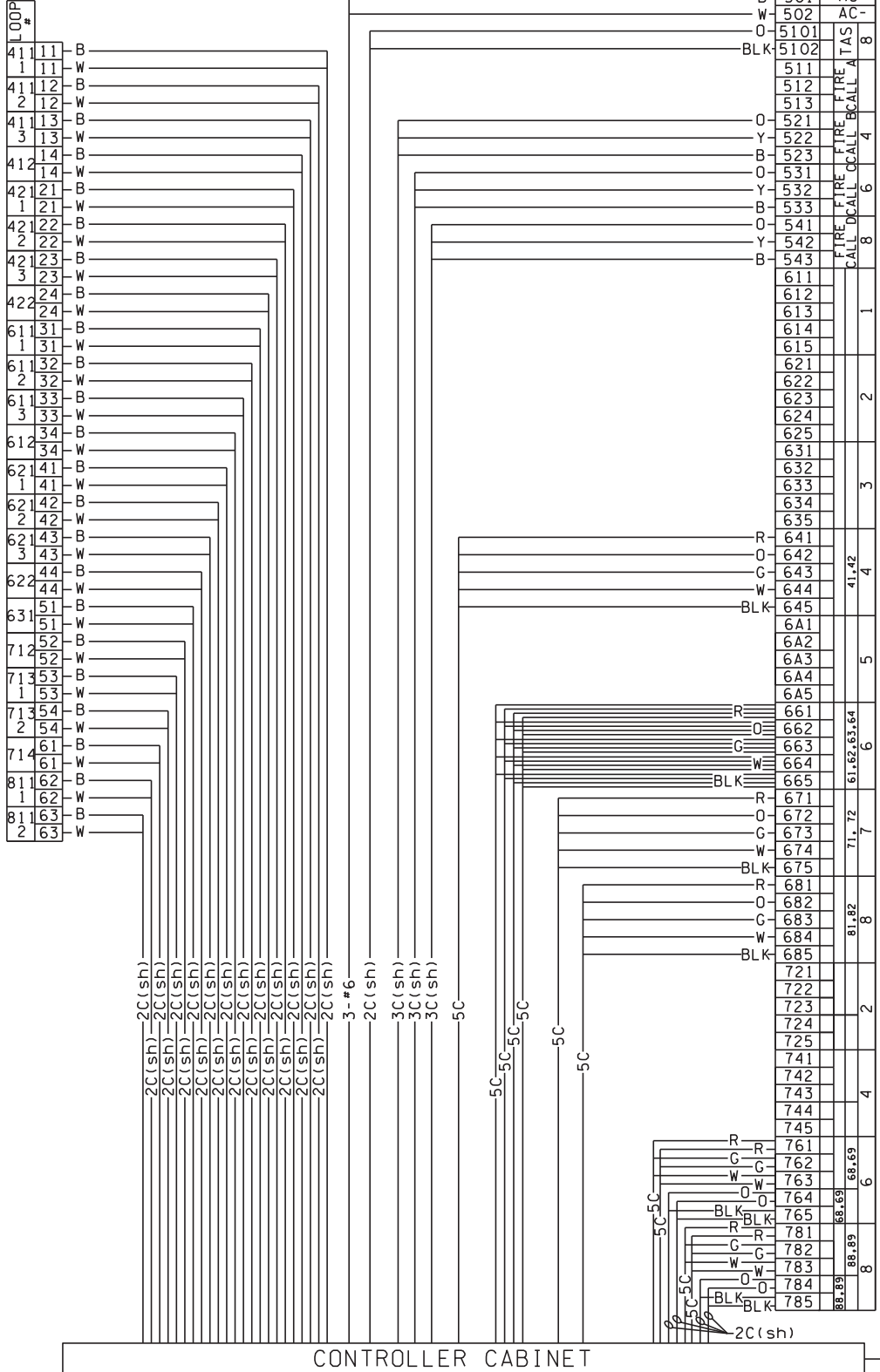




# NOTES:

NO TERMINAL REQUIRED.  
CONNECT IDENTIFIED WIRES  
TO NEUTRAL (AC-) BUS.

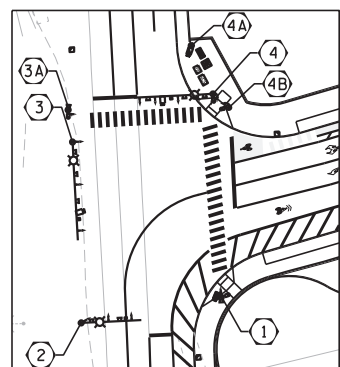
NO TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO DETECTOR COMMON BUS.  
TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO IDENTIFIED TERMINAL.



## NOTES:

- CONNECT ALL VEHICLE AND PEDESTRIAN HEADS WIRING AT TERMINAL BLOCK IN TERMINAL CABINET ATTACHED TO SIGNAL POLE.
- A 4C CABLE SHALL BE ROUTED BETWEEN EACH APS PUSHBUTTON ASSEMBLY AND THE NEAREST ASSOCIATED PEDESTRIAN SIGNAL DISPLAY HOUSING.
- INSTALL THE PUSHBUTTON ASSEMBLY CONTROL BOARD IN EACH PEDESTRIAN SIGNAL HEAD HOUSING. TERMINATE THE 4C CABLES PER MANUFACTURER'S RECOMMENDATIONS.
- ALL 2C(sh) CABLES SHALL RUN WITHOUT SPLICES FROM THE PEDESTRIAN PUSH BUTTON OR INDUCTION LOOP TO THE TERMINATION POINT INSIDE THE CONTROLLER CABINET.
- ALL 3C(sh) CABLES SHALL RUN WITHOUT SPLICES FROM THE OPTICOM DETECTORS TO THE TERMINATION POINT INSIDE THE CONTROLLER CABINET.
- ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE GROUND WIRE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
- ALL EMPTY/SPARE CONDUITS SHALL CONTAIN A #8 GROUND WIRE.

- △ RUN NUMBER IN WIRING SCHEDULE.
- SPLICE OR TERMINATION IN CABINET



## WIRE NOTES:

2C(sh): 2 CONDUCTOR SHIELDED  
DETECTION  
3C(sh): 3 CONDUCTOR SHIELDED  
EVP LEAD-IN  
4C: 4 CONDUCTOR CABLE  
5C: 5 CONDUCTOR CABLE  
#8: GROUND CABLE  
12 SMFO: 12 STRAND SINGLE MODE  
FIBER OPTIC  
cat6: CCTV CAMERA CABLE  
VID: VIDEO DETECTION CABLE

FILE NAME: WSW\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121c16\_30.dwg

PRINTED: 9:15:55 AM 8/23/2018

SUBMITTAL DATE: 08/23/18

DESIGNED BY: S. THOMS

ENTERED BY: S. THOMS

CHECKED BY: S. KRISHNAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

nespodzanyr

8/23/2018

8/23/2018

8/23/2018

REVISION

DATE

BY

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00\*\*\*\*\*



**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

**SR 525**  
**MUKILTEO FERRY TERMINAL (PHASE 2)**  
**FERRY TERMINAL CONSTRUCTION**  
**SIGNALIZATION WIRING PLAN**  
**SR525 AND SR525 REALIGNMENT**

**C16.30**

SHEET

348

OF

1521

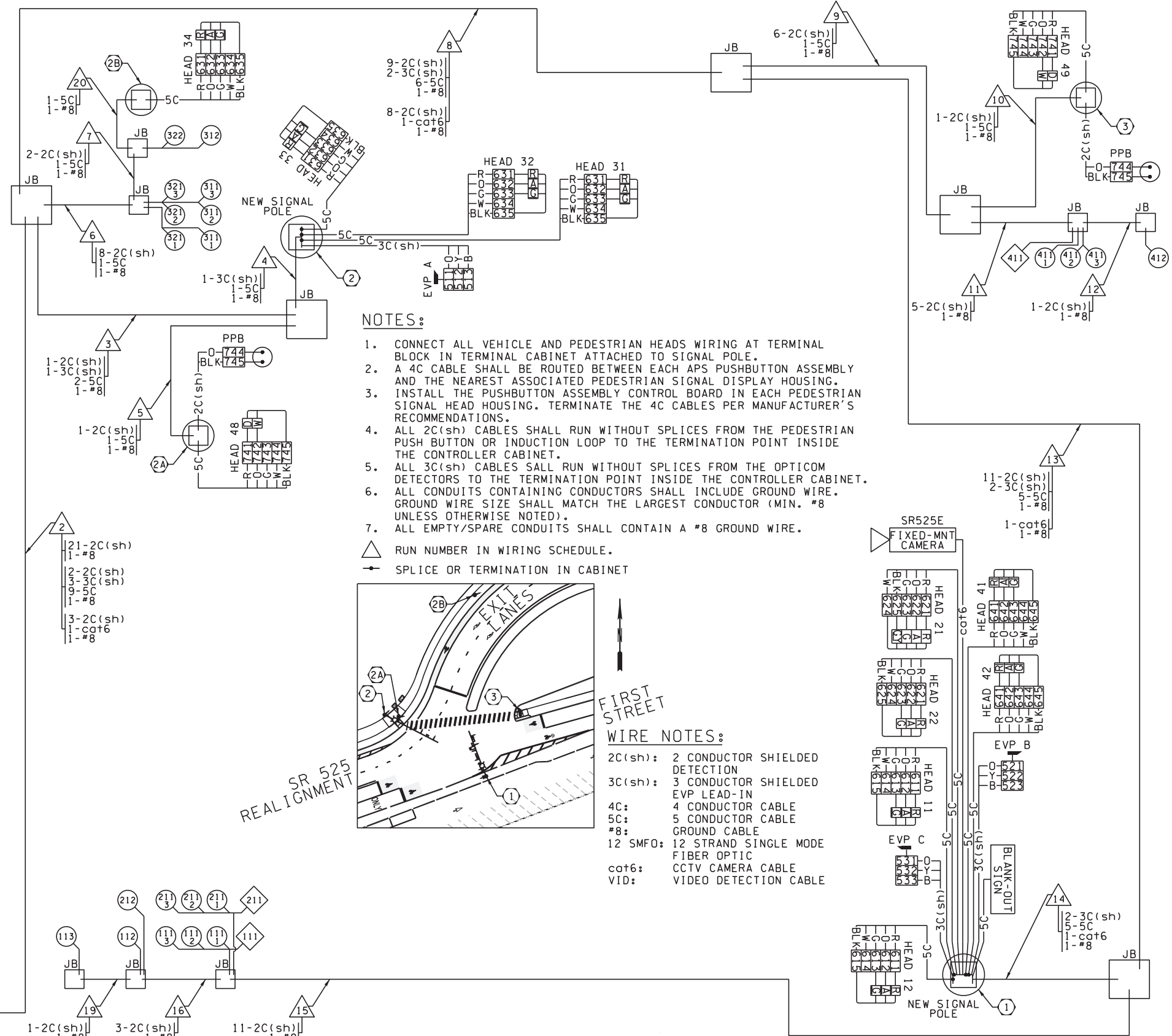
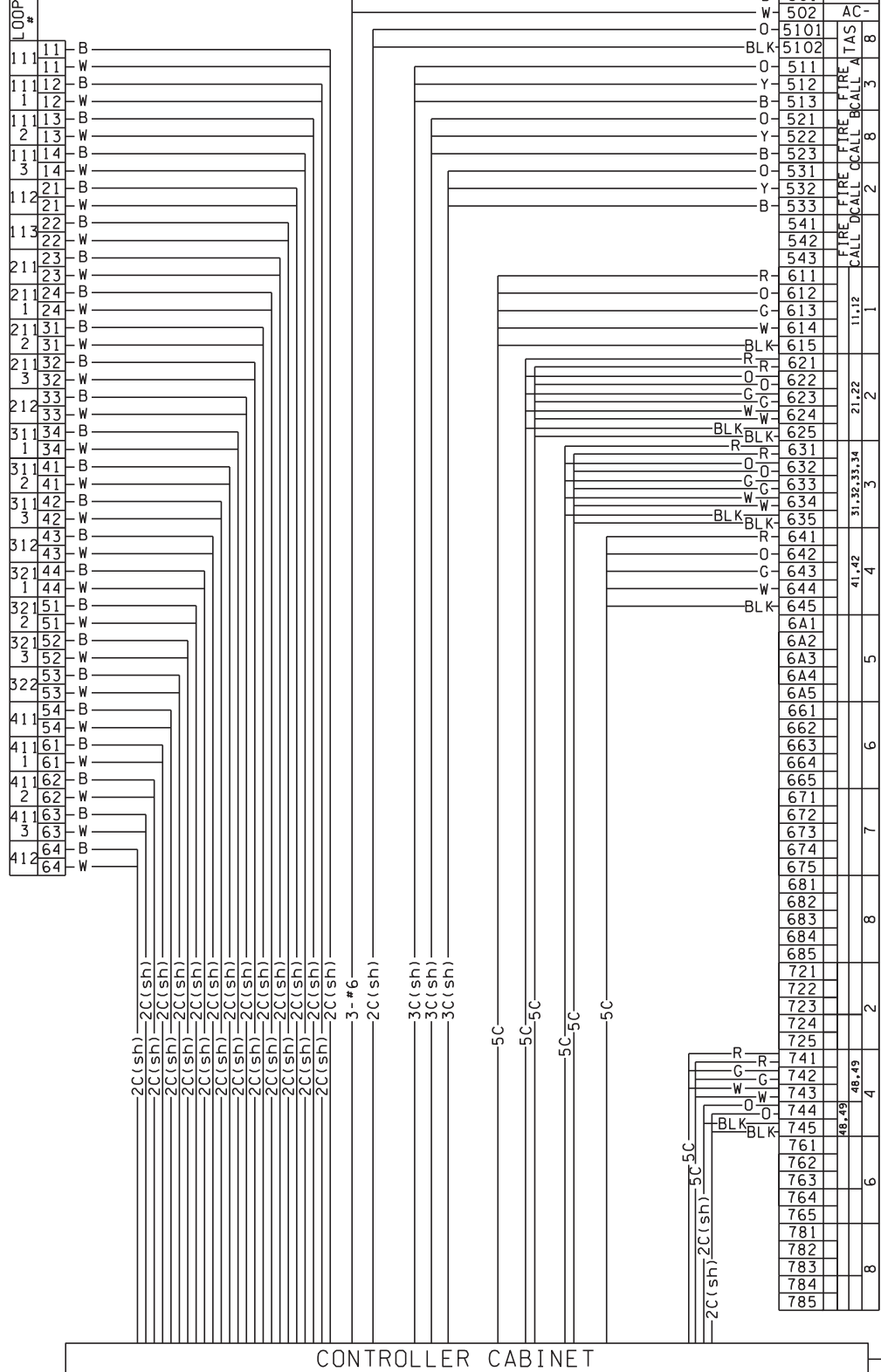
SHEETS



# NOTES:

NO TERMINAL REQUIRED.  
CONNECT IDENTIFIED WIRES  
TO NEUTRAL (AC-) BUS.

NO TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO DETECTOR COMMON BUS.  
TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO IDENTIFIED TERMINAL.



FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121c16\_31.dwg

PRINTED: 11:54:20 AM 2/23/2018

SUBMITTAL DATE: 12/22/17

DESIGNED BY: S. THOMS

ENTERED BY: S. THOMS

CHECKED BY: S. KRISHNAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

conradcs

2/23/2018

2/23/2018

2/23/2018

REVISION

DATE

BY

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

00\*\*\*\*\*



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SIGNALIZATION WIRING PLAN  
SR525 REALIGNMENT AND 1ST STREET

C16.31

SHEET

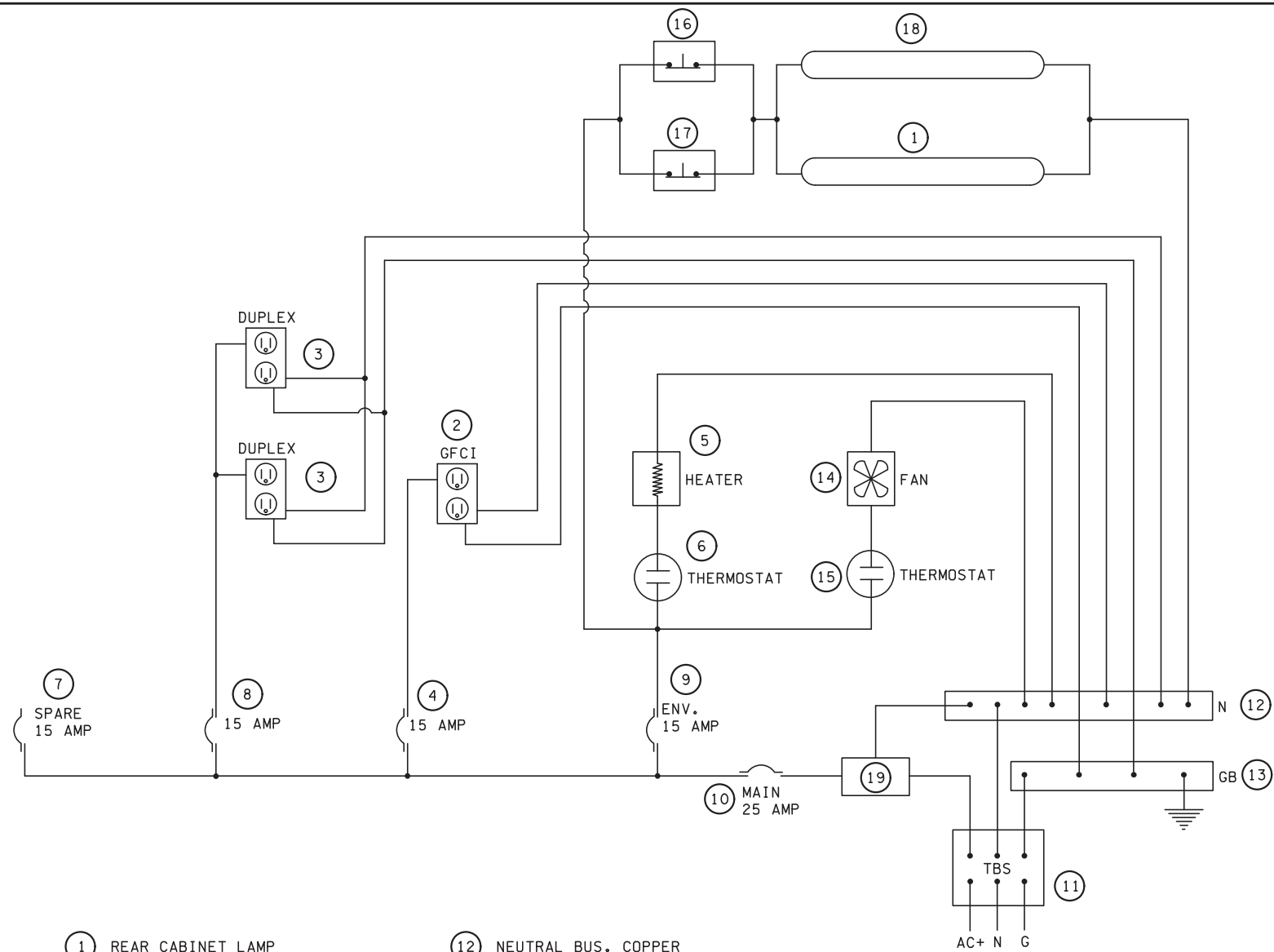
349

OF

1521

SHEETS

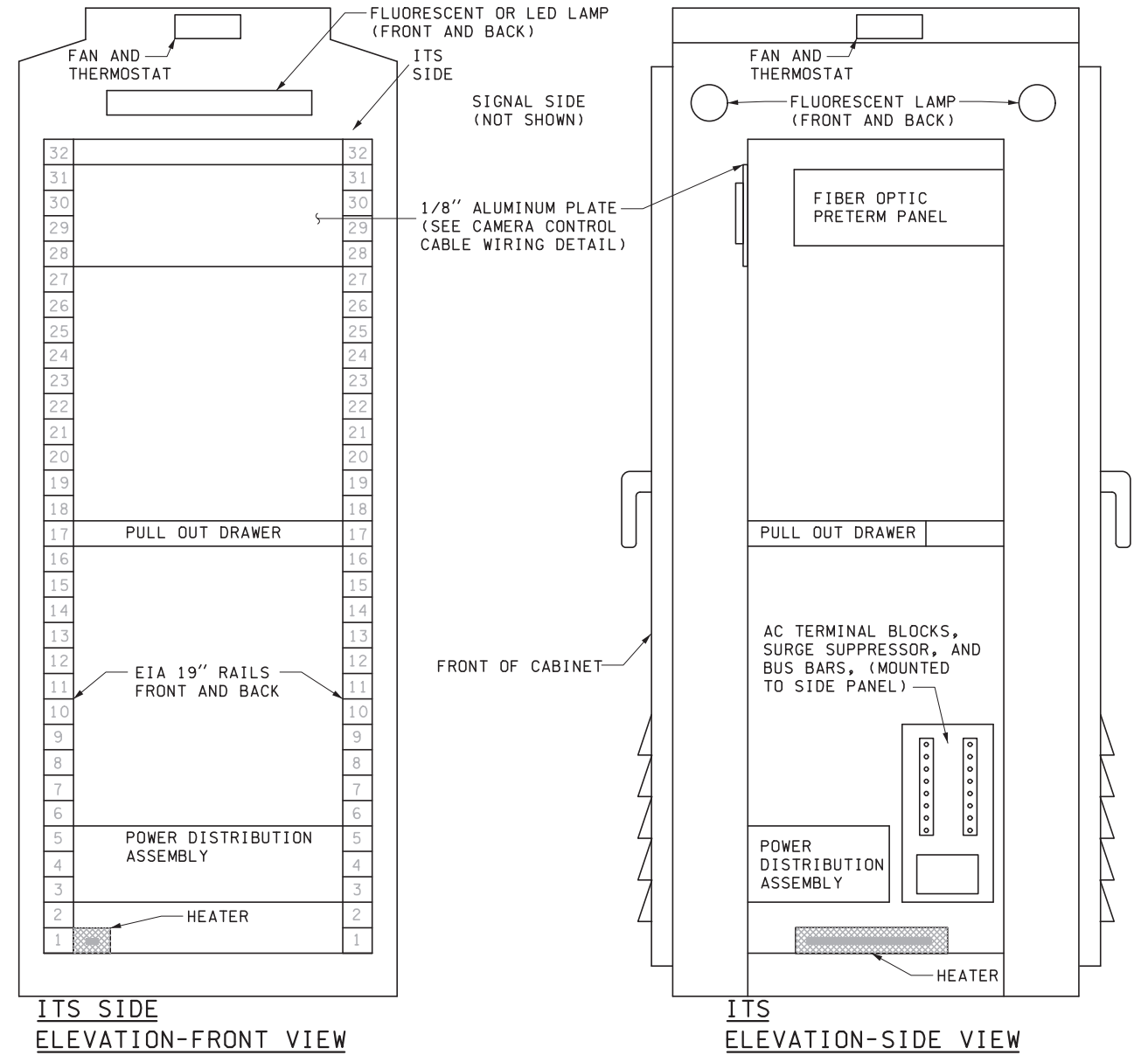
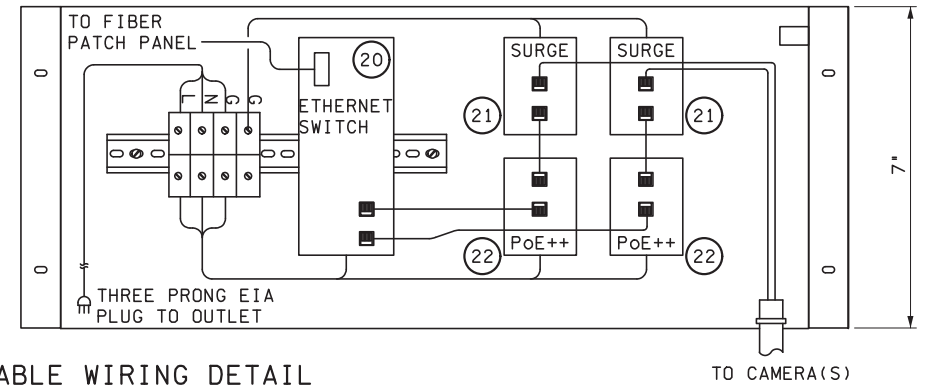




- |                                  |  |
|----------------------------------|--|
| 1 REAR CABINET LAMP              | 12 NEUTRAL BUS, COPPER                                   |
| 2 GFCI OUTLET DUPLEX RECEPTACLE  | 13 GROUND BUS, COPPER                                    |
| 3 EIA DUPLEX RECEPTACLE          | 14 COOLING FAN   |
| 4 15 AMP BREAKER FOR GFCI OUTLET | 15 THERMOSTAT, 70°F CLOSURE                              |
| 5 100 WATT STRIP HEATER          | 16 FRONT DOOR SWITCH (10 a), N.C.                        |
| 6 THERMOSTAT, 50° CLOSURE        | 17 REAR DOOR SWITCH (10 A), N.C.                         |
| 7 15 AMP SPARE BREAKER           | 18 FRONT CABINET LAMP                                    |
| 8 15 AMP RECEPTACLE BREAKER      | 19 SURGE SUPPRESSOR AND FILTER                           |
| 9 15 AMP ENVIROMENTAL BREAKER    | 20 ETHERNET SWITCH, RUGGEDCOM, MODEL RS900-HI-D-L2-L2-00 |
| 10 25 AMP MAIN BREAKER           | 21 PoE++ SURGE PROTECTOR, COHU, MODEL 741209-001         |
| 11 POWER TERMINAL BLOCK          | 22 PoE++ INJECTOR, COHU, MODEL 7412007-003               |

CABINET WIRING DIAGRAM

CAMERA CONTROL CABLE WIRING DETAIL



TYPE 332 D CABINET DETAILS  
NOT TO SCALE

FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\14w121c16-50.dwg				
PRINTED: 3:26:08 PM 12/6/2017	LAST PRINTED BY: JMCNABB			FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 12/22/17				REGION NO. STATE 10 WASH
DESIGNED BY: M. KNICKERBOCKER	12/22/17			JOB NUMBER 18W121
ENTERED BY: J. MCNABB	12/22/17			CONTRACT NO. 00****
CHECKED BY: S. HARRIS	12/22/17			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH				
ASST SECRETARY: A. SCARTON				
	REVISION	DATE	BY	



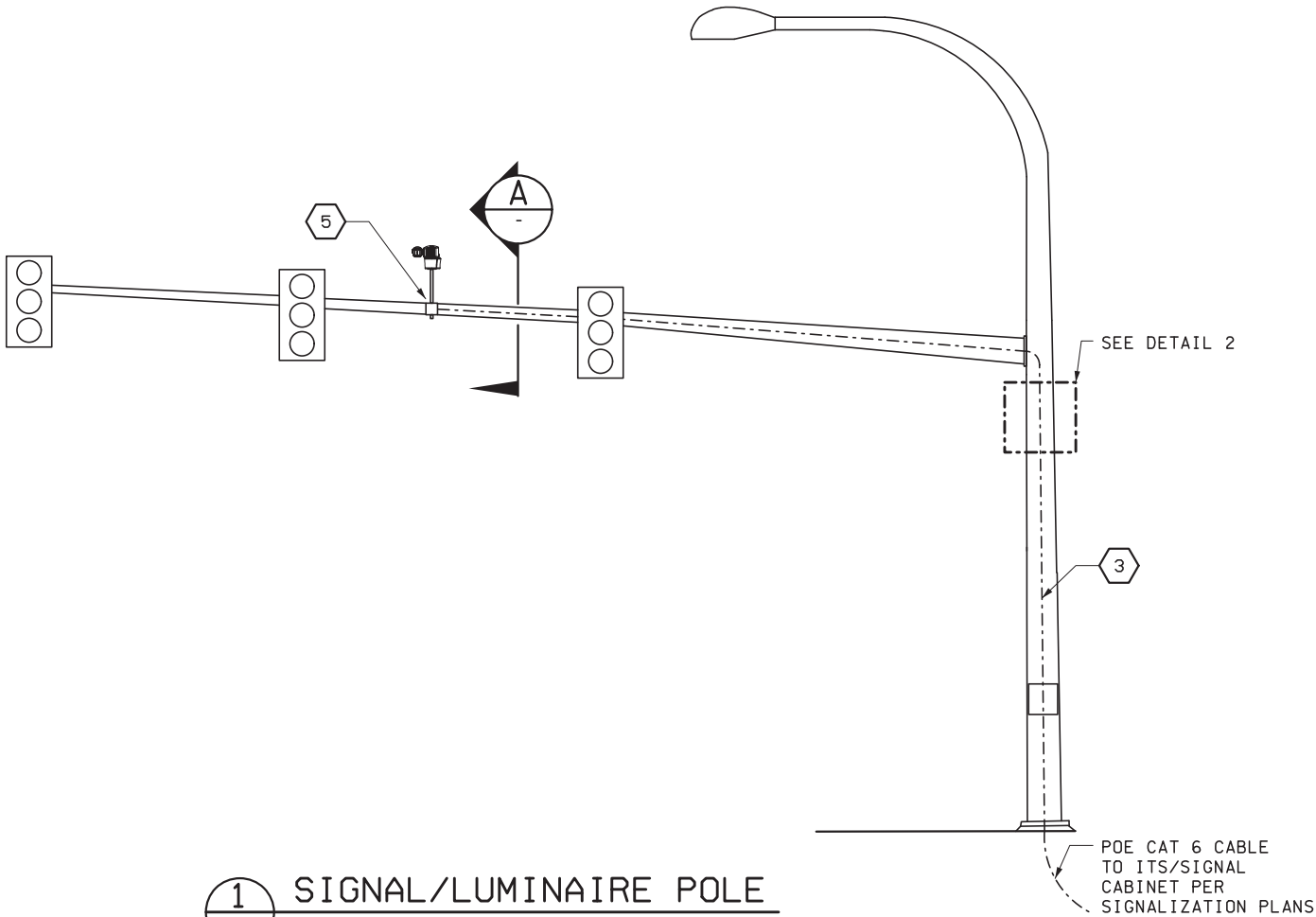
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
FIXED CAMERA CABINET  
DETAILS

C16.50  
SHEET  
350  
OF  
1521  
SHEETS

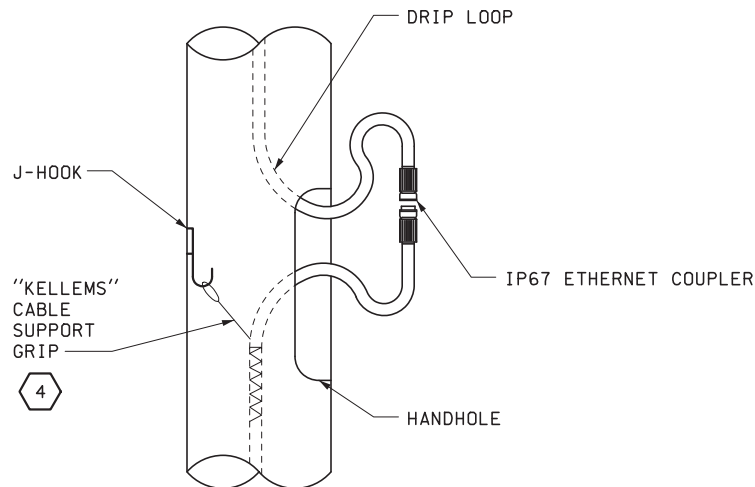


CONSTRUCTION NOTES:

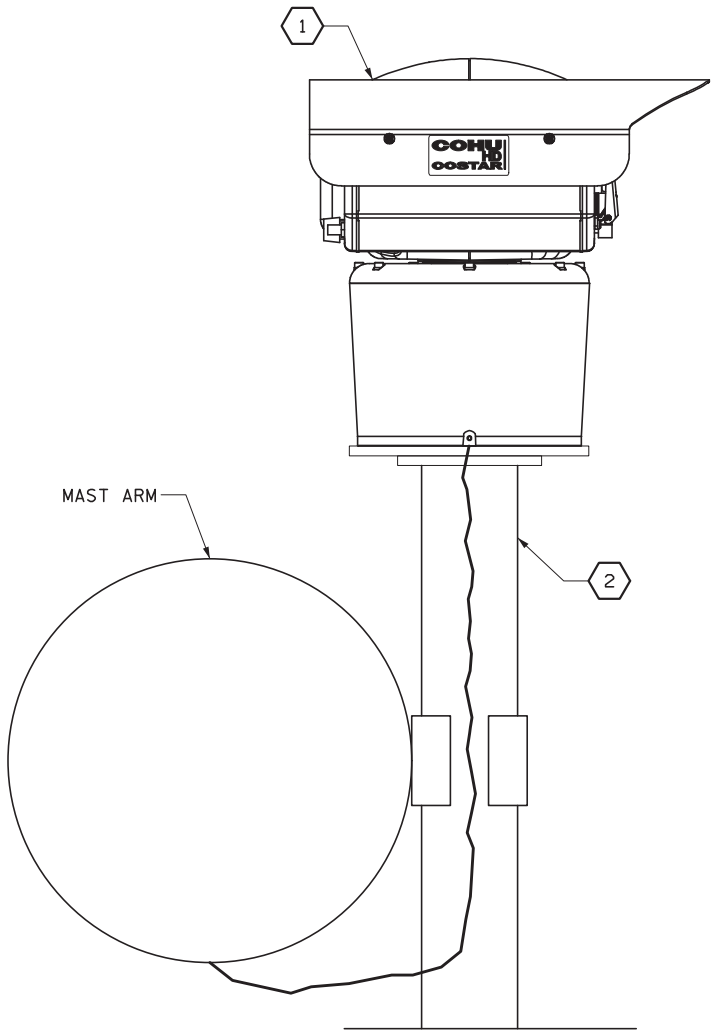
- 1
- PROVIDE COHU RISE CAMERA SYSTEM, MODEL 4261-1100.
- 2
- PROVIDE COMPATIBLE MAST ARM MOUNTING SYSTEM.  
EXAMPLE PRODUCT: COHU 2010815-001.
- 3
- PROVIDE COMPATIBLE, WEATHEPROOF CABLE PIGTAIL  
ASSEMBLY FROM CAMERA MANUFACTURER.
- 4
- CABLES INSIDE THE POLE SHALL BE SUSPENDED SUCH THAT  
NONE OF THE CABLE WEIGHT IS TRANSFERRED TO THE CABLE  
CONNECTIONS OR TERMINATIONS.
- 5
- LOCATE CAMERA ON SIGNAL MAST ARM PER SIGNALIZATION  
DRAWINGS C16.20 AND C16.21.



1 SIGNAL/LUMINAIRE POLE  
CAMERA MOUNT DETAIL NTS



2 CAMERA CABLE  
DETAIL NTS



A SIGNAL MAST ARM MOUNT DETAIL  
NTS



FILE NAME: PW:\WSF\Mukilteo\14w121\_FERRYTERMCONST\CADD\ERGOSYNCH\14w121c16\_51.dwg

PRINTED: 3:26:41 PM 12/6/2017

LAST PRINTED BY:

JMCNABB

SUBMITTAL DATE: 12/22/17

12/22/17

DESIGNED BY: M. KNICKERBOCKER

12/22/17

ENTERED BY: J. MCNABB

12/22/17

CHECKED BY: S. HARRIS

12/22/17

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

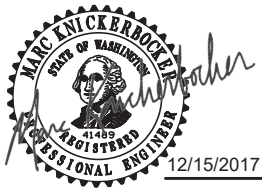
FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE  
10 WASH

JOB NUMBER  
18W121

CONTRACT NO.  
00\*\*\*\*\*



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
TRAFFIC CAMERA  
DETAILS

C16.51

SHEET  
351  
OF  
1521  
SHEETS



ELECTRICAL PLAN SYMBOLS

EQUIPMENT AND DEVICES

\$	SINGLE POLE TOGGLE SWITCH
\$&	SWITCH WITH SUBSCRIPT &. & CAN BE: 3 = 3-WAY TOGGLE SWITCH 4 = 4-WAY TOGGLE SWITCH b = TOGGLE SWITCH, SWITCH LEG B D = INTEGRAL 0-10V DIMMING DIAL O = INTEGRAL OCCUPANCY SENSOR V = INTEGRAL VACANCY SENSOR
▼	TELEPHONE OUTLET
▽	DATA OUTLET
JB or Q	JUNCTION BOX (J-BOX)
⌚	MOTOR CONNECTION
□	PANEL OR CABINET
⊙	ENGINE GENERATOR
⊕	RECEPTACLE, 480V, 3 PHASE
⊙	GROUND ROD
⊙ <sub>T</sub>	GROUND TEST WELL
—	GROUND CABLE, 2'-6" (MIN) BELOW GRADE
30□	NONFUSED DISCONNECT SWITCH. SIZE INDICATED, 3 POLE UNLESS OTHERWISE INDICATED.
60/40□	FUSED DISCONNECT SWITCH. SIZE INDICATED, (60 = SWITCH RATING, 40 = FUSE RATING) 3 POLE UNLESS OTHERWISE INDICATED
60□	
1⊠	COMBINATION MAGNETIC STARTER, NEMA SIZE INDICATED, 3 POLE UNLESS OTHERWISE INDICATED.
Ⓣ	THERMOSTAT
Ⓣ	TRANSFORMER (PLAN)
Ⓜ	VAULT, UTILITY VAULT
□	HORN
⊠	TYPE 1 JUNCTION BOX PER STANDARD PLANS
⊠	TYPE 2 JUNCTION BOX PER STANDARD PLANS
⬛	TYPE 8 JUNCTION BOX PER STANDARD PLANS
⬡-xxx xxx	= EQUIP TAG = EQUIP RATING (HP OR WATT)
⊕	FIRST RESPONDER RADIO ENHANCEMENT ANTENNA
Ⓢ	PAGING SPEAKER
Ⓢ	WALL MOUNTED PAGING SPEAKER

LIGHTING

⬡ 310	LIGHT FIXTURE DESIGNATION, SEE LIGHT FIXTURE SCHEDULE FOR TYPE "A" 310 WATTS
⬡ E	SURFACE LIGHT FIXTURE ON EMERGENCY POWER TO SCALE ON DRAWINGS
□ ○	SURFACE MOUNT LIGHT FIXTURE TO SCALE ON DRAWINGS
⬡ E	RECESSED LIGHT FIXTURE ON EMERGENCY POWER TO SCALE ON DRAWINGS
□ ○	RECESSED OR LINEAR LIGHT FIXTURE TO SCALE ON DRAWINGS
□ ○ NL	NL = NIGHT LIGHT. UNSWITCHED LIGHT OR ONE OR MORE UNSWITCHED LAMPS AS NOTED.
□ ○ 7b	7b = FED BY CIRCUIT #7, SWITCH LEG B.
—○—	STRIPLIGHT LUMINAIRE
—+—	LINEAR WALL MOUNTED LUMINAIRE
⊙	LIGHT FIXTURE
⊙	LIGHT FIXTURE ON EMERGENCY POWER
Ⓛ	EMERGENCY LIGHTING UNIT
→ ⊗	EXIT SIGN, SURFACE OR CEILING MOUNTED, SINGLE FACE WITH DIRECTIONAL ARROWS AS INDICATED.
→ ⊗	EXIT SIGN, SURFACE OR CEILING MOUNTED, DOUBLE FACE WITH DIRECTIONAL ARROWS AS INDICATED.
→ ⊗	EXIT SIGN, WALL MOUNTED, SINGLE FACE WITH DIRECTIONAL ARROWS AS INDICATED.
Ⓛ ♀	WALL MOUNTED LIGHT FIXTURE
○	LIGHT POLE
⊕	WALL WASHER
⊕	IN-GRADE UPLIGHT LUMINAIRE

RECEPTACLES

⊕	DUPLEX RECEPTACLE
⊕ GFI	DUPLEX RECEPTACLE, GFI=GROUND FAULT INTERRUPTER PROTECTED
⊕ WP	DUPLEX RECEPTACLE, WP = WEATHERPROOF COVER
⊕	SIMPLEX RECEPTACLE
⊕	4-PLEX RECEPTACLE
⊕ <sub>SP</sub>	SURGE PROTECTIVE DUPLEX RECEPTACLE
⊕ <sub>WR</sub>	WEATHER RESISTANT DUPLEX RECEPTACLE

RACEWAY/CIRCUIT DESIGNATIONS

P***	CONDUIT/CIRCUIT TAG, SEE CONDUIT AND CABLE SCHEDULE
↪ L1/3,5	CONDUIT: TICS DENOTE QUANTITY OF WIRES, LONG = NEUTRAL, CROSS TIC = GROUND, MIN 3/4"C, #12 AWG UNLESS NOTED OTHERWISE, ARROW = HOMERUN, L1/3,5 = PANEL/CIRCUIT
⊕	LB, LR, OR LL TYPE CONDUIT BODY TURNING AWAY FROM VIEWER
⊕	LB, LR, OR LL TYPE CONDUIT BODY TURNING TOWARDS VIEWER
⊕	LB, LR, OR LL TYPE CONDUIT BODY
⊕	T TYPE CONDUIT BODY
—	FLEXIBLE CORD OR CABLE
—HT—	HEAT TRACE
—OP—	OVERHEAD POWER
—BP—	BURIED POWER
—OC—	OVERHEAD COMMUNICATIONS OR CONTROL
—BC—	BURIED COMMUNICATIONS OR CONTROL
—	HEAVY SOLID LINES INDICATE NEW CONDUIT MATERIAL AND EQUIPMENT THAT IS EXPOSED
—	SCREENED SOLID LINES INDICATE EXISTING CONDUIT MATERIAL AND EQUIPMENT THAT IS EXPOSED
-----	HEAVY DASHED LINES INDICATE NEW CONDUIT MATERIAL AND EQUIPMENT THAT IS HIDDEN FROM VIEW
-----	SCREENED DASHED LINES INDICATE EXISTING CONDUIT MATERIAL AND EQUIPMENT THAT IS HIDDEN FROM VIEW

FIRE ALARM DEVICES

- BCL - -	UNDERGROUND COMMUNICATIONS
Ⓢ	FIRE ALARM HORN/STROBE
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
AMP	AMPLIFIER RACK
BATT	BATTERY CABINET
ESR	ELEVATOR STATUS/RECALL
PRE	PRE-ACTION SYSTEM/CONTROL UNIT
FAA	FIRE ALARM ANNUNCIATOR
EOL <sub>Re</sub>	END OF LINE DEVICE - RESISTOR
FSD	FIRE SMOKE DAMPER
L	FIRE ALARM STROBE
CP	DUST COLLECTOR CONTROL PANEL
F	DUST COLLECTOR CONTROL PANEL
AOM	ADDRESSABLE OUTPUT CONTROL MODULE
AIM	ADDRESSABLE INPUT MONITOR MODULE
AIO <sub>2</sub>	ADDRESSABLE INPUT/OUTPUT MODULE # DENOTES NUMBER OF INPUTS AND OUTPUTS
S	SMOKE DETECTOR/SENSOR - BASIC SHAPE ORIENTATION NOT TO BE CHANGED
Ⓢ	HEAT DETECTOR/SENSOR - (THERMAL DETECTION) ORIENTATION NOT TO BE CHANGED
Ⓢ	REMOTE ALARM INDICATING AND TEST SWITCH
Ⓢ	FIRE SERVICE OR EMERGENCY PHONE STATION - BASIC SHAPE
Ⓢ CD W	COMBINATION SPEAKER/VISIBLE - CEILING MOUNT CD= CANDELA RATING/SETTING W= WATTAGE
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
PB	PULL STATION

FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\WSF\ 14w121eg01\_00 Legend1.dwg

PRINTED: 7:34:01 AM 1/5/2018

LAST PRINTED BY:

Morin

SUBMITTAL DATE: 12/22/2017

DESIGNED BY: S. HOLLOWAY

12/22/2017

ENTERED BY: M. MORIN

12/22/2017

CHECKED BY: E. RAJAH

12/22/2017

MAR PROJ ENGR: C. TORRES

12/22/2017

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

REVISION

DATE

BY

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE  
10 WASH

JOB NUMBER  
18W121

CONTRACT NO.  
00\*\*\*\*\*



1/5/2018

COSI

Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION


ELECTRICAL SYMBOLS I

EG01.00

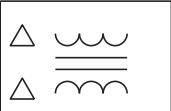
SHEET  
352  
OF  
1521  
SHEETS



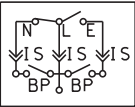
ONE-LINE DIAGRAM SYMBOLS




TRANSFORMER  
KVA RATINGS AND  
WINDING VOLTAGE RATING  
INDICATED.




DELTA-DELTA XFMR  
KVA AND VOLTAGE  
RATINGS AS INDICATED



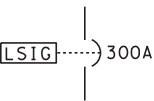
ATS WITH BYPASS AND  
ISOLATION SWITCHES, 4-POLE  
(SWITCHED NEUTRAL) U.O.N.




POWER METER



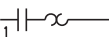
CONDUIT/CIRCUIT TAG, SEE  
CONDUIT AND CABLE SCHEDULE



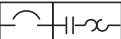
ELECTRONIC TRIP CIRCUIT  
BREAKERS WITH FIELD-ADJUSTABLE  
SETTINGS FOR THE FOLLOWING:  
L = LONG TIME  
S = SHORT TIME  
I = INSTANTANEOUS  
G = GROUND FAULT




CIRCUIT BREAKER, AMPERE TRIP SHOWN, 3 POLE  
UNLESS OTHERWISE INDICATED




MAGNETIC STARTER WITH NEMA SIZE INDICATED  
WITH OVERLOAD RELAY HEATER




COMBINATION MOTOR STARTER WITH ADJUSTABLE  
MAGNETIC TRIP MOTOR CIRCUIT PROTECTION  
CIRCUIT BREAKER. NEMA SIZED AND HORSEPOWER  
RATED




SWITCH CURRENT RATING INDICATED, 3 POLE  
UNLESS OTHERWISE NOTED




MOTOR  
HORSEPOWER INDICATED



GROUND ROD,  
GROUND




CURRENT  
TRANSFORMER  
(3)=3 CT'S




FUSE, AMPERE RATING  
INDICATED

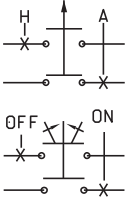
SCHEMATIC DIAGRAM SYMBOLS



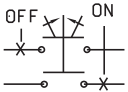
RELAY OR CONTACTOR CONTACT. NORMALLY CLOSED




RELAY OR CONTACTOR CONTACT. NORMALLY OPEN




SELECTOR SWITCH, MAINTAINED CONTACT  
THREE POSITION (HOA SHOWN)




SELECTOR SWITCH, SPRING RETURN TO CENTER,  
THREE POSITION




LIGHTING CONTACTOR, RELAY




PILOT LIGHT:      A= AMBER      G= GREEN  
                             R= RED        Y= YELLOW




OVERLOAD  
RELAY HEATER




TIMING RELAY




LIMIT SWITCH, NORMALLY CLOSED  
HELD OPEN




LIMIT SWITCH, NORMALLY CLOSED



LIMIT SWITCH, NORMALLY OPEN  
HELD CLOSED




LIMIT SWITCH, NORMALLY OPEN




AUXILIARY CONTACT

(a) CONTACT THAT IS OPEN WHEN THE MAIN DEVICE IS  
IN THE STANDARD REFERENCE POSITION COMMONLY  
REFERRED TO AS THE NONOPERATED OR DE-ENERGIZED  
POSITION AND THAT CLOSSES WHEN THE DEVICE  
ASSUMES THE OPPOSITE POSITION.


(b) CONTACT THAT IS CLOSED WHEN THE MAIN DEVICE IS  
IN THE STANDARD REFERENCE POSITION COMMONLY  
REFERRED TO AS THE NONOPERATED OR DE-ENERGIZED  
POSITION AND THAT OPENS WHEN THE DEVICE ASSUMES  
THE OPPOSITE POSITION.




PROXIMITY LIMIT SWITCH, NORMALLY CLOSED




PROXIMITY LIMIT SWITCHES, NORMALLY OPEN




PRESSURE SWITCH, CLOSE ON  
PRESSURE SET POINT




TEMPERATURE SWITCH, NORMALLY CLOSED,  
OPEN ON TEMPERATURE SET POINT




LEVEL SWITCH, NORMALLY OPEN




PUSH BUTTON, NORMALLY CLOSED,  
MUSHROOMHEAD MAINTAINED  
CONTACT, PULL TO RELEASE




PUSH BUTTON NORMALLY OPEN,  
MOMENTARY CONTACT




PUSH BUTTON NORMALLY CLOSED,  
MOMENTARY CONTACT




ILLUMINATED PUSH BUTTON LIGHT




TIMER CONTACT NORMALLY  
CLOSED, TIMED OPEN




PILOT LIGHT (PUSH TO TEST)




SOLENOID




SWITCH




RESISTOR




HEATER  
HEATER WATTAGE INDICATED




DUPLEX RECEPTACLE




HORN



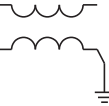
BELL



SUPPRESSOR

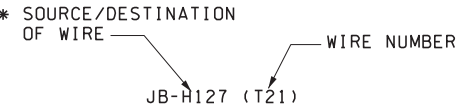


STROBE LIGHT



CONTROL POWER  
TRANSFORMER

WIRE LABELING



\* THE SOURCE OR DESTINATION OF THE WIRE IS THE  
NEXT DEVICE THAT PROVIDES A TERMINAL FOR  
THIS WIRE.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\WSF\ 14w121eg01_01 Legend2.dwg										 <div>1/5/2018</div>	 <div>Washington State Department of Transportation WASHINGTON STATE FERRIES</div>	SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		EG01.01	
PRINTED: 7:34:04 AM 1/5/2018	LAST PRINTED BY:					FED.AID PROJ.NO.	WA-2017-007-00	REGION NO. STATE 10 WASH	JOB NUMBER 18W121 CONTRACT NO. 00*****			SHEET 353 OF 1521 SHEETS			
SUBMITTAL DATE: 12/22/2017	Morin														
DESIGNED BY: S. HOLLOWAY	12/22/2017														
ENTERED BY: M. MORIN	12/22/2017														
CHECKED BY: E. RAJAH	12/22/2017														
MAR PROJ ENGR: C. TORRES	12/22/2017														
DIR TERM ENGR: N. MCINTOSH															
ASST SECRETARY: A. SCARTON			REVISION	DATE	BY										



GENERAL NOTES:

1. DIMENSIONS & SIZES SHOWN ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS AS DEPICTED ON THESE PLANS INCLUDING QUANTITIES, LOCATIONS, RATINGS, AND FUNCTION OF EXISTING EQUIPMENT, CONDUIT, AND WIRE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL ASSUME FULL RESPONSIBILITY FOR MEASURED QUANTITIES.
3. THE CONTRACTOR SHALL COORDINATE POWER, CONTROL, AND COMMUNICATIONS SYSTEMS SHUTDOWN WITH THE ENGINEER TO MINIMIZE DISRUPTION OF NORMAL FACILITY OPERATION.
4. CONDUIT AND WIRE NOTED FOR DEMOLITION SHALL BE REMOVED FROM THEIR POINT OF BEGINNING TO WHERE THEY TERMINATE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL ABANDONED WIRING ENCOUNTERED.
5. EQUIPMENT DIMENSIONS AND CONFIGURATION SHOWN ARE APPROXIMATE. ACTUAL SIZE AND LAYOUT SHALL BE PER THE ENGINEER APPROVED CONTRACTOR'S SHOP DRAWINGS.
6. CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND PROVIDING TEMPORARY POWER AND LIGHTING FOR WORK AREAS.
7. PROVIDE CONDUIT TAGS FOR ALL EXISTING AND NEW CONDUITS INDICATED ON THE PLANS.
8. SIZE JUNCTION BOXES PER NEC 314.28 UNLESS SHOWN OTHERWISE ON PLANS.

CABLE & CONDUIT ABBREVIATIONS

2"C,10#12,2#12SP,#12G(C10)	2" CONDUIT, TYPE PER SPECIAL PROVISIONS; TEN #12 CONDUCTORS PLUS TWO SPARE #12'S AND A #12 GROUND CONDUCTOR, INSULATION TYPE PER SPECIAL PROVISIONS; "C10" CONDUIT LABEL.
1½"C(C100)	1½" CONDUIT, TYPE PER SPECIAL PROVISIONS; SEE ONE-LINES OR PLANS FOR ENCLOSED CABLE AND WIRE INFORMATION; "C100" CONDUIT LABEL.
¾"EC (F10)	¾" EMPTY CONDUIT WITH PULL STRING, TYPE PER SPECIAL PROVISIONS; "F10" CONDUIT LABEL.
1"LFMC(H10)	1" LIQUIDTIGHT FLEXIBLE METAL CONDUIT, SEE ONE-LINES OR PLANS FOR ENCLOSED CABLE AND WIRE INFORMATION; "H10" CONDUIT LABEL. (LFMC, EC = EMPTY LIQUIDTIGHT FLEXIBLE METAL CONDUIT)
24/C#12(10)	MULTICONDUCTOR CABLE. TWENTY-FOUR CONDUCTORS, SIZE #12; "10" CABLE LABEL.

ABBREVIATIONS

A, AMP(S)	AMPERE(S)	HF	HEADFRAME	POS	POINT OF SALE
AB	ALLEN-BRADLEY	HGR	HANGER	PR	PAIR
AF	AMPERE FRAME	HH	HANDHOLE	PROX	PROXIMITY
AFF	ABOVE FINISH FLOOR	HID	HIGH INTENSITY DISCHARGE	PS	PRESSURE SWITCH
AG	AUXILIARY GUTTER	HOA	HAND-OFF-AUTO	PSE	PUGET SOUND ENERGY
AIC	AMPERES INTERRUPTING CAPACITY	HP	HORSEPOWER	PT	POTENTIAL TRANSFORMER
ALRM	ALARM	HPS	HIGH PRESSURE SODIUM		PRESSURE TRANSDUCER
ANN, ANNC	ANNUNCIATOR	HPU	HYDRAULIC POWER UNIT	PTT	PUSH TO TEST
APPROX	APPROXIMATELY	HT	HEAT TRACE	PVC	POLYVINYL CHLORIDE CONDUIT
AT	AMPERE TRIP	HYD	HYDRAULIC	PWR	POWER
ATS	AUTOMATIC TRANSFER SWITCH		HYDRAULIC POWER UNIT		
AUX	AUXILIARY			R	RELAY, RIGHT
AWG	AMERICAN WIRE GAUGE			RECPT, RCPT	RECEPTACLE
		IC	INTERRUPTING CAPACITY	REQ'D	REQUIRED
BKR	BREAKER	ID	INSIDE DIAMETER	RGS	RIGID GALVANIZED STEEL CONDUIT
BOM	BILL OF MATERIALS	IMC	INTERMEDIATE METAL CONDUIT		
		IR	INFRARED	RGSP	RIGID GALVANIZED STEEL, PVC COATED CONDUIT
C	CONDUIT, CONDUCTOR	J, JB, J-BOX	JUNCTION BOX	RI	REMOTE INDICATOR
CAB	CABINET	JS	JOYSTICK	RL	RED LIGHT
CAT	CATALOG			RM	ROOM
CB	CIRCUIT BREAKER	Kcmil, KCM	THOUSAND CIRCULAR MILLS		
CL	CENTERLINE	KV	KILOVOLT	S	SOUTH
CDF	CONTROLLED DENSITY FILL	KVA	KILOVOLT AMPERE	(S)	SHIELDED
CKT	CIRCUIT	KVAR	KILOVAR(S)	SF	SUPPLY FAN
CO	CONDUIT ONLY	KW	KILOWATT	SHT	SHEET
COMB	COMBINATION			SOL	SOLENOID
COMM	COMMUNICATION	L	LEFT	SP	SPARE
CP	CONTROL PANEL	LC	LIGHTING CONTACTOR	SOD	SQUARE D
CPT	CONTROL POWER TRANSFORMER	LCC	LINE CONTROL CABINET	SS	SELECTOR SWITCH
CPU	CENTRAL PROCESSING UNIT	LFC	LIQUIDTIGHT FLEXIBLE CONDUIT	SST, SS	STAINLESS STEEL
CR	CONTROL RELAY		LIQUIDTIGHT FLEXIBLE CONDUIT	SW	SWITCH
CS	CONTROL STATION	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT	SWBD	SWITCHBOARD
CT	CURRENT TRANSFORMER	LOC'D	LOCATED	SWGR	SWITCHGEAR
CTRL	CONTROL	LT	LIGHT		
CU	COPPER	LS	LIMIT SWITCH	TDR	TIME DELAY RELAY
		M	MAGNETIC CONTACTOR COILS, METERS, MOTOR	TEL	TELEPHONE
DC	DIRECT CURRENT	MCB	MAIN CIRCUIT BREAKER	TL	TWISTLOCK
DIA	DIAMETER	MCC	MOTOR CONTROL CENTER	TS	TEMPERATURE SWITCH,TOGGLE SWITCH
DIST	DISTRIBUTION	MCR	MASTER CONTROL RELAY	TSP	TWISTED SHIELDED PAIR
DN	DOWN	MH	METAL HALIDE; MANHOLE	TST	TWISTED SHIELDED TRIAD
DS	DISCONNECT SWITCH	MISC	MISCELLANEOUS	TTB	TELEPHONE TERMINAL BOARD
DWG	DRAWING	MLO	MAIN LUGS ONLY	TYP	TYPICAL
		MM, mm	MILLIMETER(S)	UG	UNDERGROUND
E	EAST	MPZ	MINI POWER ZONE	UH	UNIT HEATER
EC	EMPTY CONDUIT	MS	MOTOR STARTER	UL	UNDERWRITERS
EG	ENGINE GENERATOR	MTR	MOTOR		LABORATORIES, INC.
EGC	EQUIPMENT GROUND CONDUCTOR	MTS	MANUAL TRANSFER SWITCH	UPS	UNINTERRUPTIBLE POWER SUPPLY
ELEC, ELECT	ELECTRICAL			UV	UTILITY VAULT
EMT	ELECTRICAL METALLIC TUBING	N	NORTH	V	VOLTS
ENC	ENCLOSED	NCHO	NORMALLY CLOSED HELD OPEN		
EQUIP	EQUIPMENT	NEC	NATIONAL ELECTRICAL CODE	W	WATTS, WIRE
EXIST	EXISTING	NEUT	NEUTRAL	W/	WITH
EWC	ELECTRIC WATER COOLER	NOHC	NORMALLY OPEN HELD CLOSED	WP	WEATHERPROOF
		NP	NAMEPLATE		
FC, FLEX	FLEXIBLE CONDUIT	NTS	NOT TO SCALE	XFMR	TRANSFORMER
FDR	FEEDER				
FLC	FLUORESCENT, COMPACT	OC	ON CENTER		
FT	FEET	OD	OUTSIDE DIAMETER		
FS	FLOAT SWITCH	OP	OVERHEAD POWER		
FU, F	FUSE				
FVR	FULL VOLTAGE REVERSING	P	POLE		
FVNR	FULL VOLTAGE NON-REVERSING	PA	PUBLIC ADDRESS		
FWD	FORWARD	PB	PUSHBUTTON		
		PE, PC	PHOTOELECTRIC SENSOR (PHOTOCELL)		
G, GND	GROUND		PHASE		
GA	GAUGE	PH	PLATE		
GALV	GALVANIZED	PL OR P	PROGRAMMABLE LOGIC CONTROLLER		
GEN	GENERATOR	PLC	PANEL		
GFI	GROUND FAULT INTERRUPTER	PNL			
GL	GREEN LIGHT				
GWB	GYPSUM WALL BOARD				

FILE NAME: WSF\Mulkiteo\14W121_FerryTermConst\CADD\WSF\ 14w121eg01_02 Abbreviations.dlv					
PRINTED: 7:34:06 AM 1/5/2018	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/2017	Morin				WA-2017-007-00
DESIGNED BY: S. HOLLOWAY	12/22/2017				REGION NO. STATE
ENTERED BY: M. MORIN	12/22/2017				10 WASH
CHECKED BY: E. RAJAH	12/22/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES	12/22/2017				18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****



1/5/2018



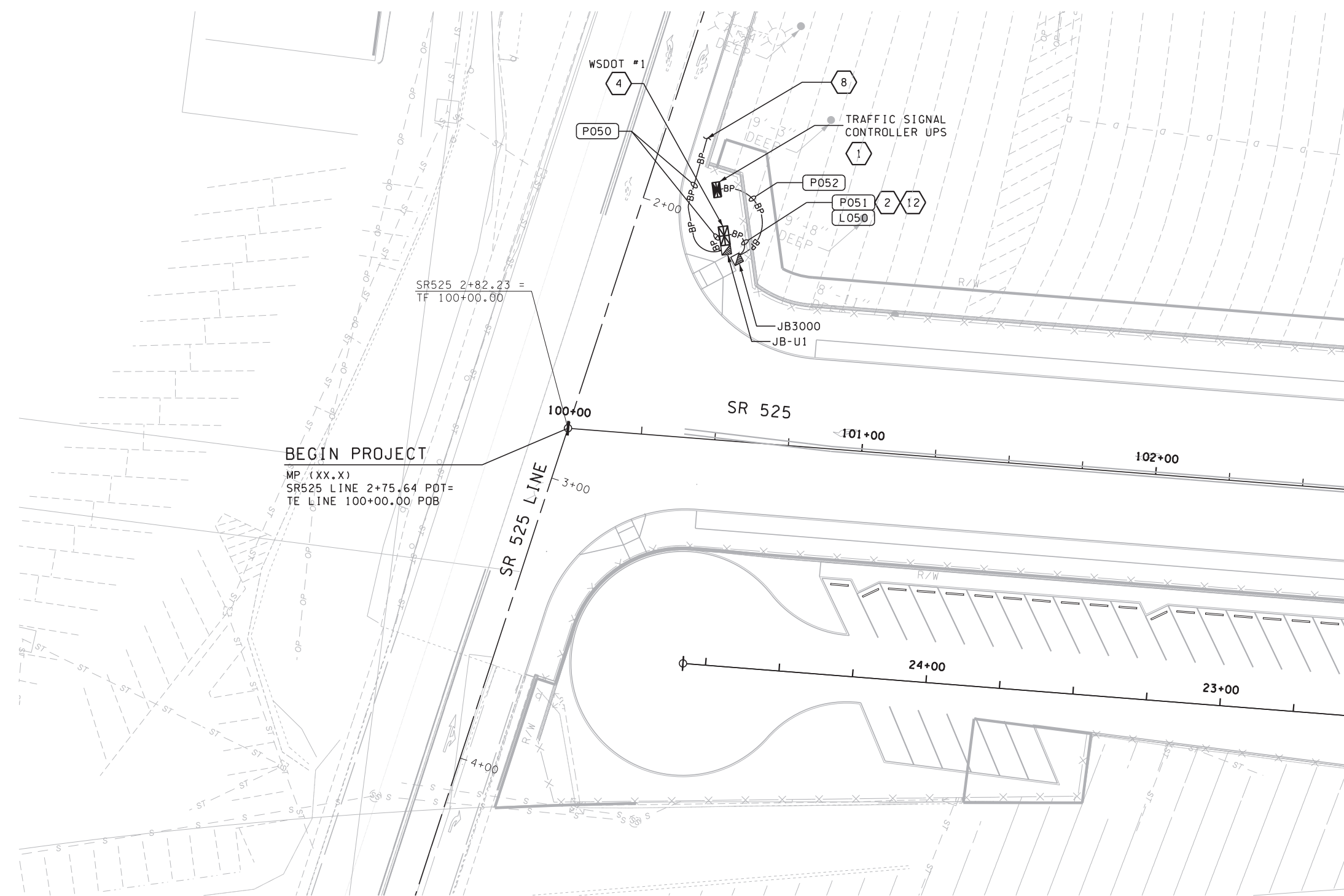
Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
ELECTRICAL ABBREVIATIONS  
AND NOTES

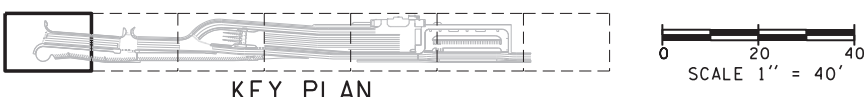
EG01.02  
SHEET  
354  
OF  
1521  
SHEETS







- NOTES:**
- 1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
  - 2. SEE C16 SERIES DRAWINGS FOR TRAFFIC SIGNAL PLANS.
  - 3. SEE ES12 SERIES DRAWINGS FOR SITE ELECTRICAL COMMUNICATIONS PLANS.
  - 4. SEE ES10 SERIES DRAWINGS FOR CABLE AND CONDUIT SCHEDULES.

- CONSTRUCTION NOTES:**
- 1. INSTALL CONDUIT AND CONDUCTORS TO TRAFFIC SIGNAL CONTROLLER CABINET FROM WSDOT ELECTRICAL SERVICE.
  - 2. LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.
  - 4. NEW WSDOT ELECTRICAL SERVICE CABINET TYPE "D". SEE WSDOT STANDARD PLAN J-10.21-00.
  - 8. CONTINUE CONDUIT AND CONNECT TO NEW POLE MOUNTED TRANSFORMER BY SNOPOD APPROXIMATELY 200FT FROM THIS POINT. CONTRACTOR TO COORDINATE WITH SNOPOD FOR CONDUIT CONNECTION.
  - 12. PROVIDE A SEPARATE SPARE 2" CONDUIT.



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_10.dlv												 <b>Washington State</b> <b>Department of Transportation</b> WASHINGTON STATE FERRIES				SR 525				ES02.10	
PRINTED: 9:23:30 AM 8/23/2018		LAST PRINTED BY: yunc														MUKILTEO FERRY TERMINAL (PHASE 2)		SHEET			
SUBMITTAL DATE: 08/23/18																FED.AID PROJ.NO.		355			
DESIGNED BY: M. BAGINSKI		8/23/2018														WA-2017-007-00		OF			
ENTERED BY: J. SLATER		8/23/2018														REGION NO. STATE		1521			
CHECKED BY: C. YUN		8/23/2018														10 WASH					
MAR PROJ ENGR: C. TORRES																JOB NUMBER		18W121			
DIR TERM ENGR: N. MCINTOSH										CONTRACT NO.		00****									
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY				WASHINGTON STATE FERRIES		SHEETS							

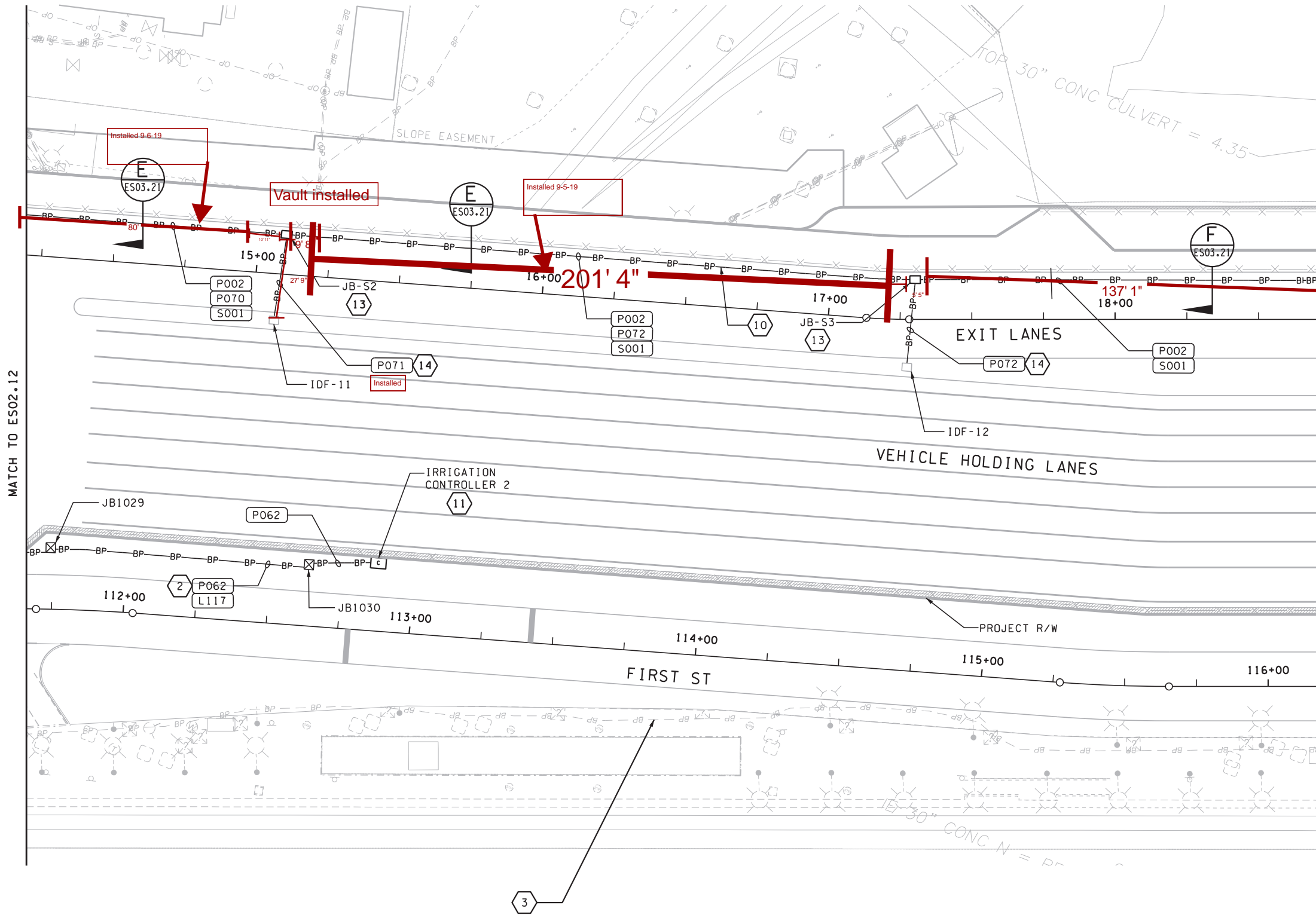










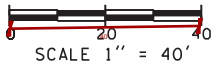


- NOTES:**
1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
  2. SEE ES12 SERIES DRAWINGS FOR SITE ELECTRICAL COMMUNICATIONS PLANS.
  3. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING DUCT BANK INFORMATION.
  4. SEE ES10 SERIES DRAWINGS FOR CONDUIT AND CABLE SCHEDULES.

- CONSTRUCTION NOTES:**
- 2 LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.
  - 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
  - 10 INSTALL CONDUIT DUCT BANK AND CONDUCTORS FROM TERMINAL BUILDING TO TOLL PLAZA.
  - 11 INSTALL CONDUIT AND CONDUCTORS TO IRRIGATION CONTROLLER.
  - 13 SEE WSDOT STANDARD DRAWING J-90.10-02 FOR PULL BOX DETAILS WITH HEAVY DUTY LID.
  - 14 INSTALL TWO 2" CONDUITS TO COMMUNICATION CABINET. SEE COMMUNICATION DRAWINGS FOR LOCATION AND INSTALLATION DETAILS.



KEY PLAN



SCALE 1" = 40'

FILE NAME: WS\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_13.dwg				
PRINTED: 12:26:47 PM 12/15/2017	LAST PRINTED BY:			FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17	slaterj			WA-2017-007-00
DESIGNED BY: M. BAGINSKI	12/15/2017			REGION NO. STATE
ENTERED BY: J. SLATER	12/15/2017			10 WASH
CHECKED BY: C. YUN	12/15/2017			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00*****
REVISION		DATE	BY	



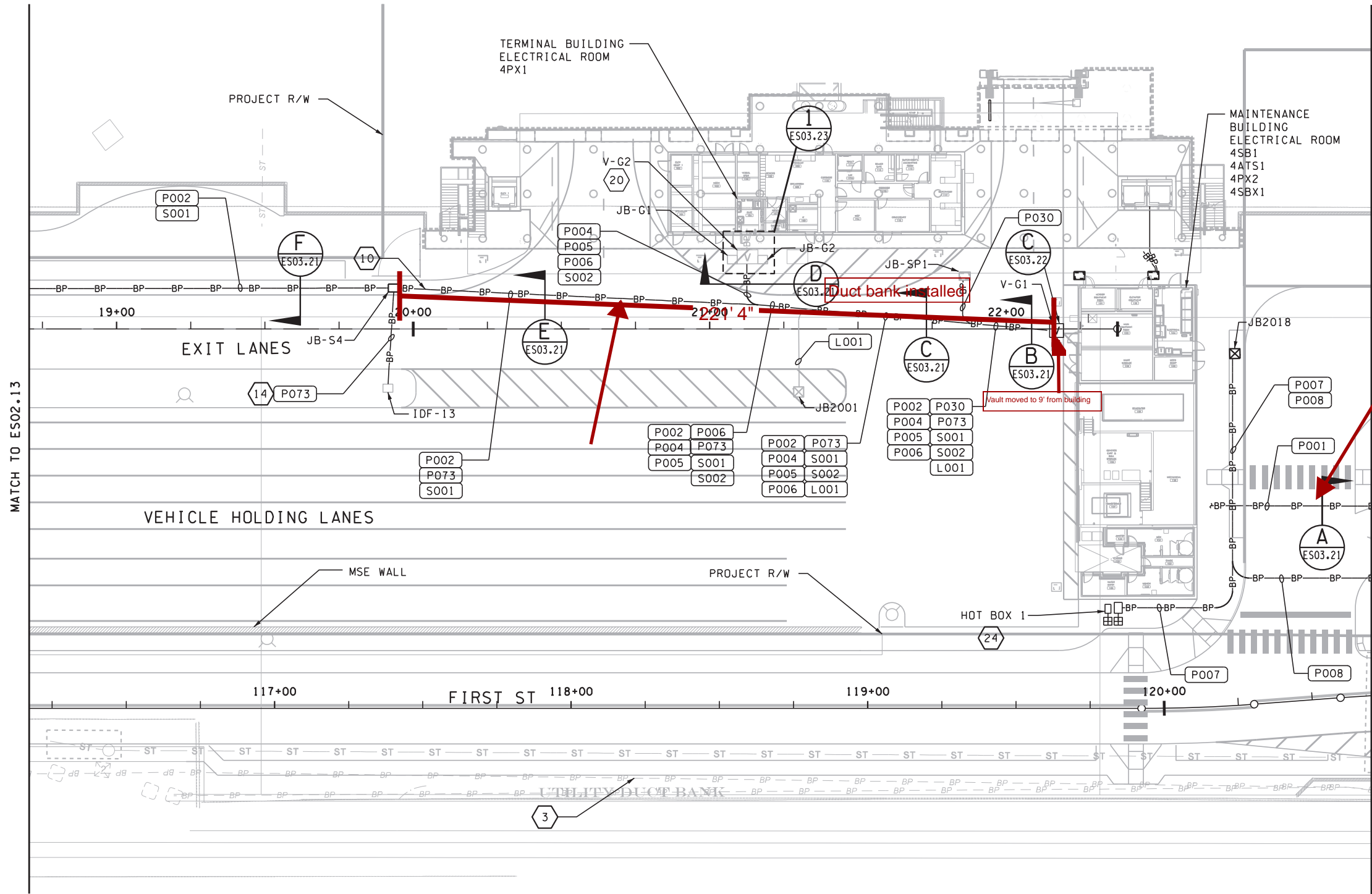
2/22/2018



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ELECTRICAL PLAN

ES02.13  
SHEET  
358  
OF  
1521  
SHEETS





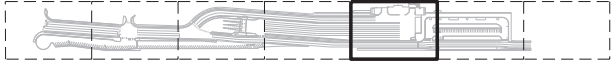
NOTES:

- 1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
- 2. SEE ES12 SERIES DRAWINGS FOR SITE ELECTRICAL COMMUNICATIONS PLANS.
- 3. FOR CONDUIT CONTINUATION INTO BUILDINGS, SEE EB02 SERIES DRAWINGS FOR BUILDING ELECTRICAL PLANS.
- 4. SEE ES03.22 FOR ELECTRICAL VAULT DETAILS.
- 5. SEE EB11.02 FOR TRAFFIC CCTV SYSTEM BLOCK DIAGRAM.
- 6. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING ELECTRICAL DUCT BANK INFORMATION.
- 7. SEE ES10 SERIES DRAWINGS FOR CABLE AND CONDUIT SCHEDULE.

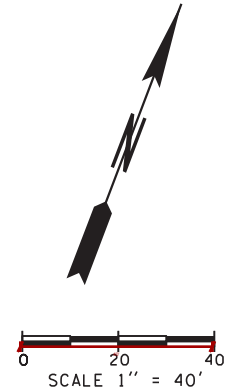
Installed, inspected, and poured PUD ductbank.



CONSTRUCTION NOTES:

- 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
- 10 INSTALL CONDUIT DUCTBANK FROM MAINTENANCE BUILDING TO TOLL PLAZA.
- 14 INSTALL TWO 2" CONDUITS TO COMMUNICATION CABINET. SEE COMMUNICATION DRAWINGS FOR LOCATION AND INSTALLATION DETAILS.
- 20 CONNECT CONDUIT DUCTBANK TO EXISTING BURIED ELECTRICAL VAULT.
- 24 INSTALL CONDUIT AND CONDUCTORS TO WATER SERVICE HOT BOX, SEE SHEET C08.14.



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_14.dlv												 <b>Washington State</b> <b>Department of Transportation</b> WASHINGTON STATE FERRIES		SR 525		ES02.14	
PRINTED: 12:30:42 PM 12/15/2017		LAST PRINTED BY:				FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)						SHEET			
SUBMITTAL DATE: 12/22/17		slater,j				WA-2017-007-00		FERRY TERMINAL CONSTRUCTION						359			
DESIGNED BY: M. BAGINSKI		12/15/2017				REGION NO. STATE								OF			
ENTERED BY: J. SLATER		12/15/2017				10 WASH								1521			
CHECKED BY: C. YUN		12/15/2017				JOB NUMBER								SHEETS			
MAR PROJ ENGR: C. TORRES						18W121											
DIR TERM ENGR: N. MCINTOSH						CONTRACT NO.											
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY									

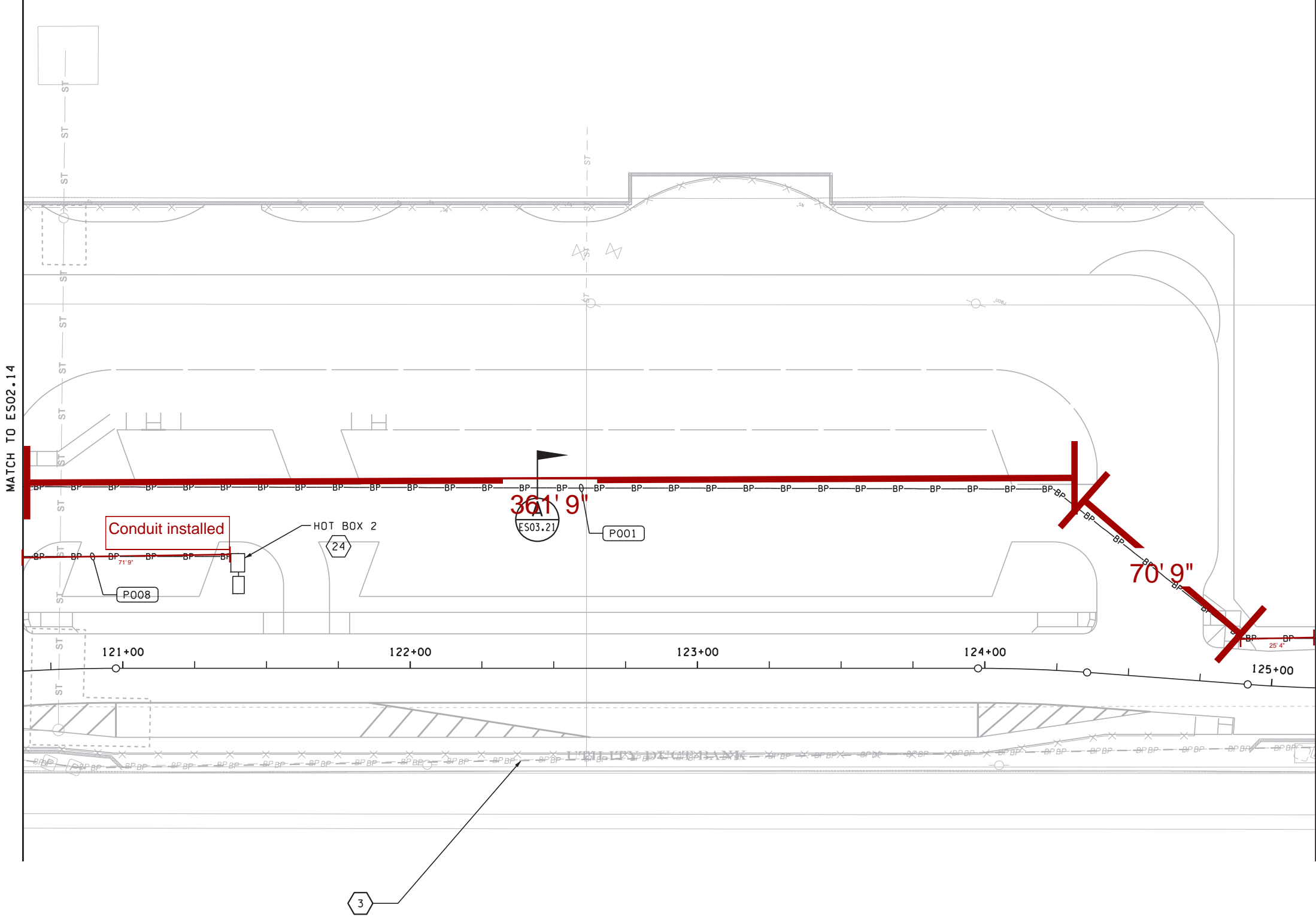


NOTES:

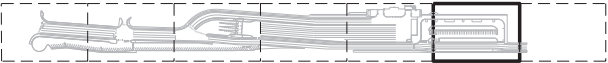
- 1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
- 2. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING DUCT BANK INFORMATION.

CONSTRUCTION NOTES:

- 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
- 24 INSTALL CONDUIT AND CONDUCTORS AND CONDUCTORS TO WATER SERVICE HOT BOX, SEE SHEET C08.14.



PUD ductbank installed, inspected, and poured.



KEY PLAN



JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL PLAN

ES02.15

SHEET  
360  
OF  
1521  
SHEETS

FILE NAME: WS\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_15.dwg				
PRINTED: 12:31:56 PM 12/15/2017	LAST PRINTED BY: slaterj			FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17				WA-2017-007-00
DESIGNED BY: M. BAGINSKI	12/15/2017			REGION NO. STATE
ENTERED BY: J. SLATER	12/15/2017			10 WASH
CHECKED BY: C. YUN	12/15/2017			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH				CONTRACT NO.
ASST SECRETARY: A. SCARTON				00****
	REVISION	DATE	BY	



2/22/2018

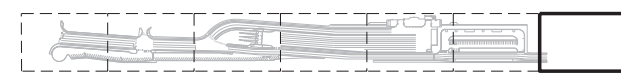
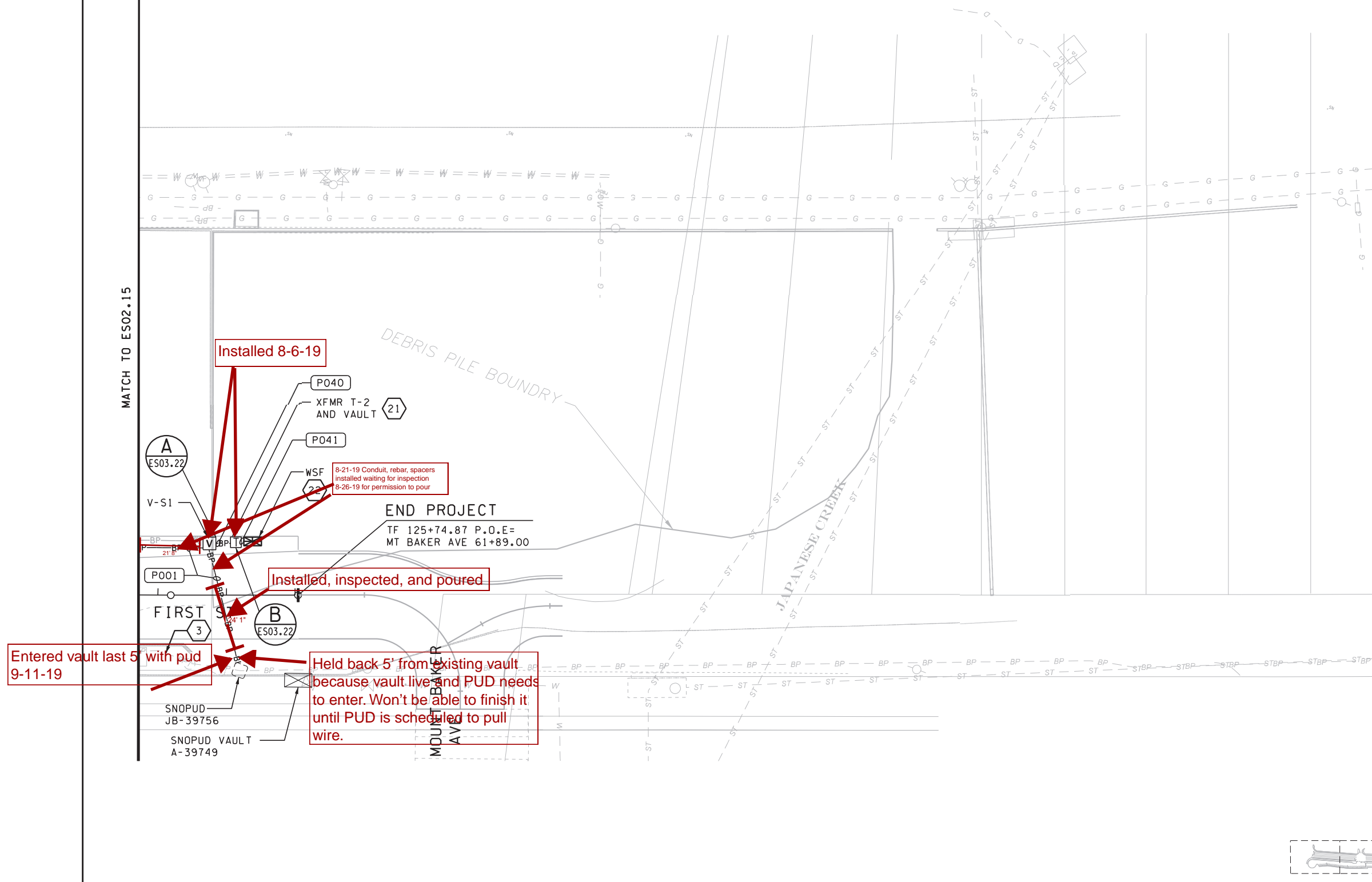


1. SEE PORT OF EVERETT PROJECT MT-RB-2005-02  
REFERENCE DRAWINGS FOR EXISTING DUCT BANK  
INFORMATION.
2. SEE ES10 SERIES DRAWINGS FOR CABLE AND CONDUIT  
SCHEDULE.

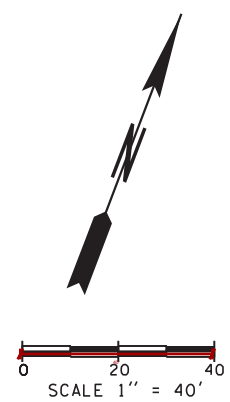
3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.

21 NEW PAD MOUNTED UTILITY TRANSFORMER BY SNOPOD.  
CONTRACTOR TO COORDINATE WITH SNOPOD.

22 NEW WSF SERVICE CABINET TYPE "D". SEE WSDOT  
STANDARD PLAN J-10.21-00.



## KEY PLAN

**JACOBS®**

**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

# SITE ELECTRICAL PLAN

ES02.16

SHEET  
361  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121es02.16.dwg

PRINTED: 12:34:29 PM 12/15/2017

LAST PRINTED BY:
------------------

SUBMITTAL DATE:	12/22/17
-----------------	----------

sloter j
----------

DESIGNED BY:	M. BAGINSKI
--------------	-------------

12/15/2017
------------

ENTERED BY:	J. SLATER
-------------	-----------

12/15/2017	
------------	--

CHECKED BY:	C. YUN
DATE REC'D:	9-10-2006

12/15/2017
------------

MAR PROJ ENGR:	C. TORRES
SUP TERM ENGR	N. MCINTOSH


FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO.	STATE

10	WASH
JOB NUMBER	

JOB NUMBER  
18W121

CONTRACT NO.  
00\*\*\*\*\*



2/22/2018

---



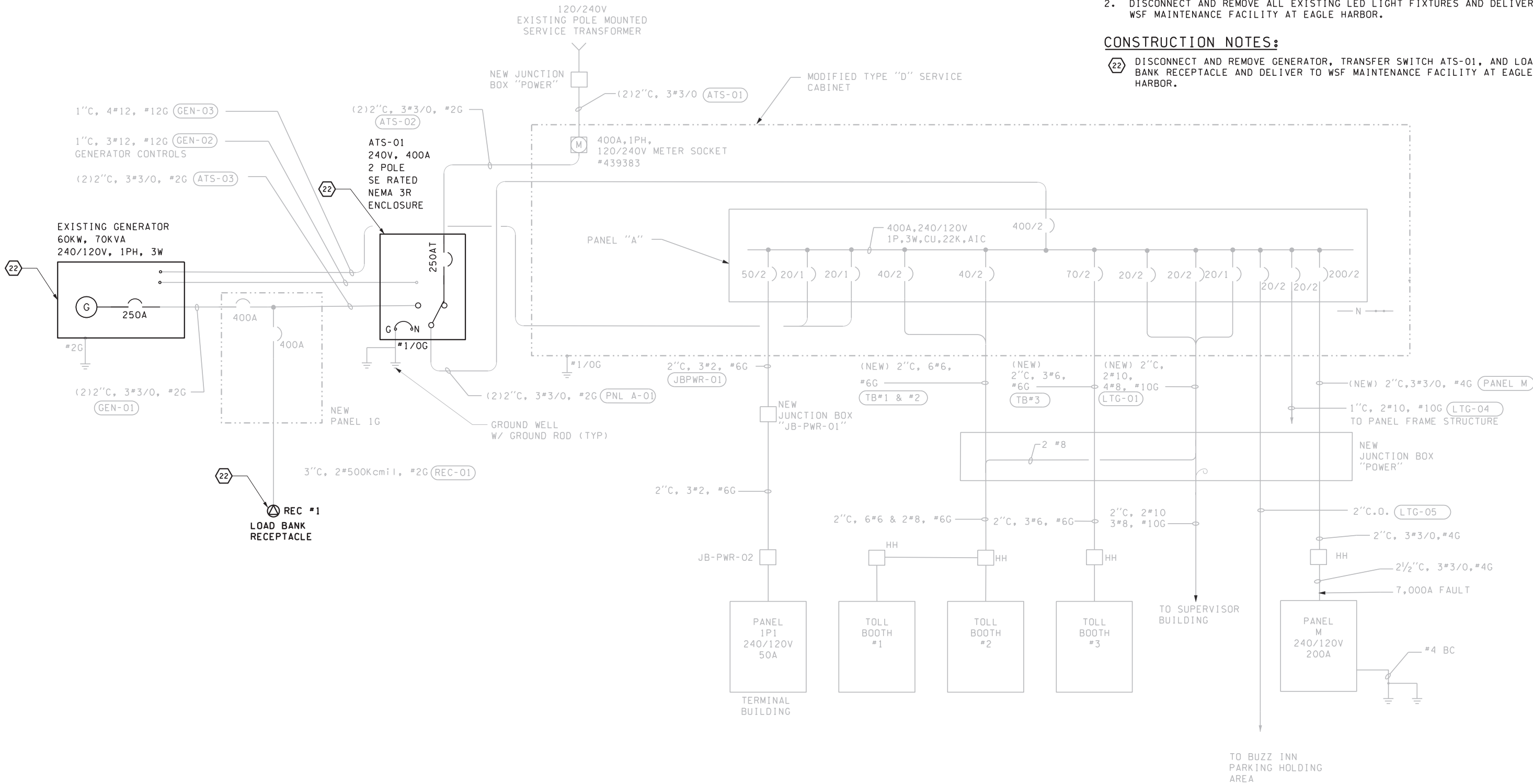
GENERAL NOTES:

1. ALL EXISTING ELECTRICAL EQUIPMENT IS TO BE REMOVED AND DISCARDED UNLESS NOTED OTHERWISE.
2. DISCONNECT AND REMOVE ALL EXISTING LED LIGHT FIXTURES AND DELIVER TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR.

CONSTRUCTION NOTES:

- 22

DISCONNECT AND REMOVE GENERATOR, TRANSFER SWITCH ATS-01, AND LOAD BANK RECEPTACLE AND DELIVER TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR.



JACOBS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es03_00.dlv					
PRINTED: 12:36:22 PM 12/15/2017	LAST PRINTED BY: slaterj				FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17					WA-2017-007-00
DESIGNED BY: M. BAGINSKI	12/15/2017				REGION NO. STATE
ENTERED BY: J. SLATER	12/15/2017				10 WASH
CHECKED BY: C. YUN	12/15/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



2/22/2018



SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL ONELINE DIAGRAM

EXISTING/DEMO

ES03.00

SHEET

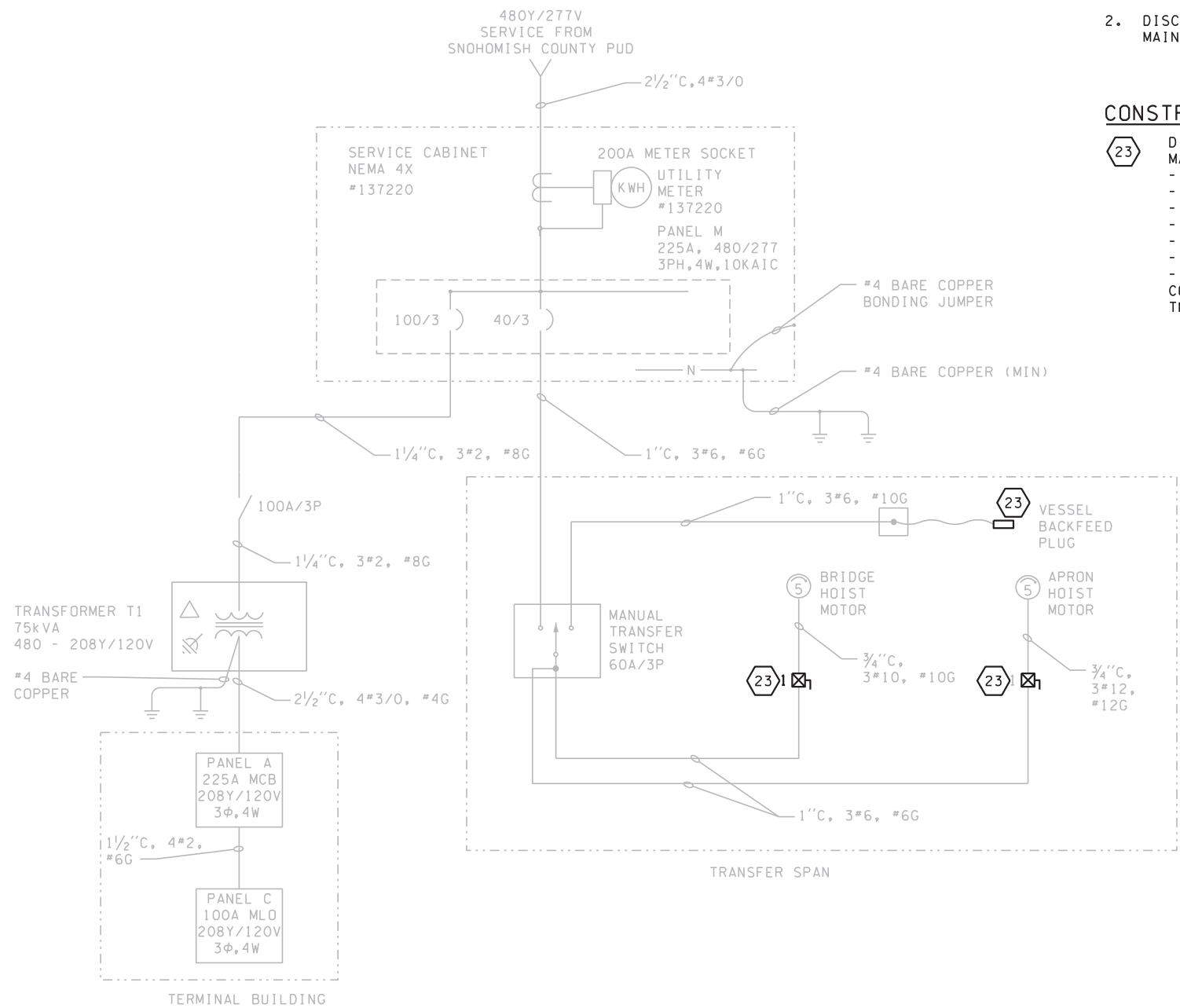
362

OF

1521

SHEETS





GENERAL NOTES:

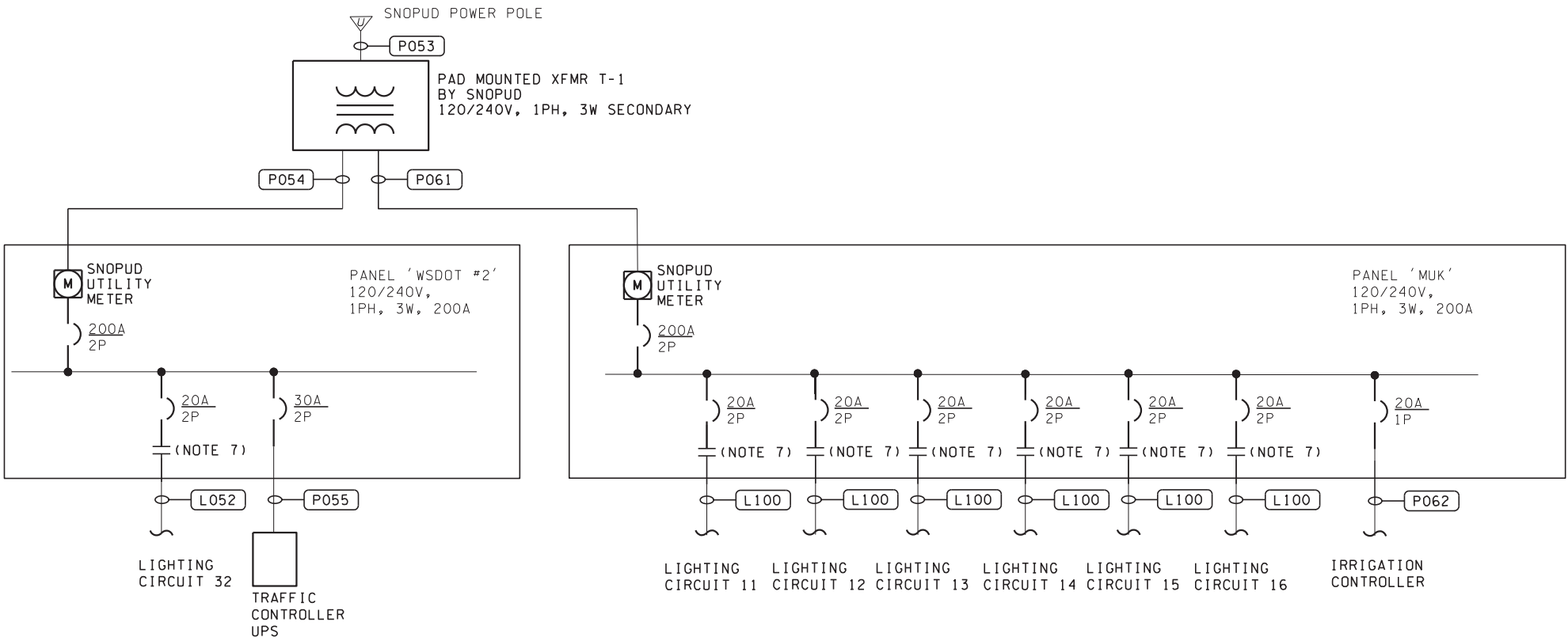
1. ALL EXISTING ELECTRICAL EQUIPMENT IS TO BE REMOVED AND DISCARDED UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2. DISCONNECT AND REMOVE ALL EXISTING LED FIXTURES AND DELIVER TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR.

CONSTRUCTION NOTES:

- 23 DISCONNECT, REMOVE, AND DELIVER THE FOLLOWING EQUIPMENT TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR:
- VTS PLC CABINET (NOT SHOWN ON ONE LINE)
  - BRIDGE CONTROL STATION (NOT SHOWN ON ONE LINE)
  - BRIDGE AND APRON HOIST MOTOR STARTERS
  - LINE CONTROL CABINET (NOT SHOWN ON ONE LINE)
  - VESSEL BACKFEED PLUG
  - APRON TOGGLE SWITCH (NOT SHOWN ON ONE LINE)
  - TRAFFIC GATE CONTROLLER AND ARM (NOT SHOWN ON ONE LINE)
- COORDINATE SITE WALKTHROUGH WITH WSF AS NEEDED TO IDENTIFY ALL THE EQUIPMENT LISTED ABOVE.

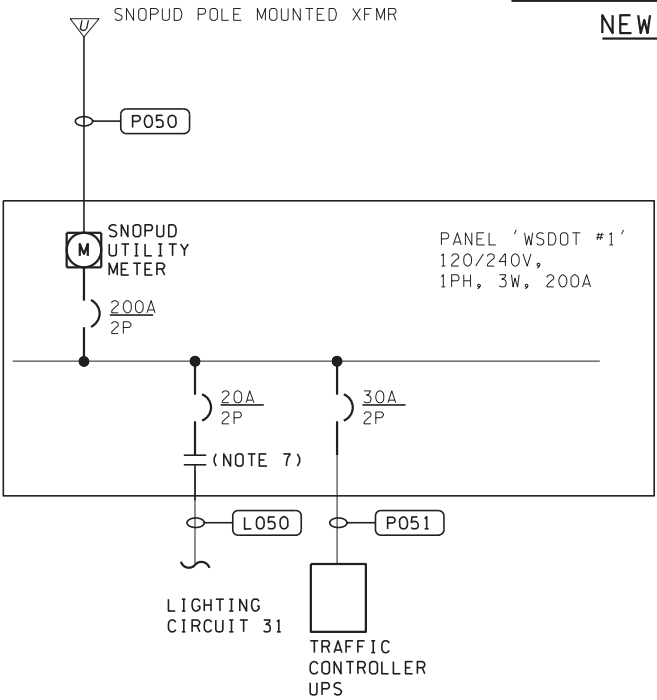
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es03_01.dlv																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
---	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--





WSDOT TOLL PLAZA  
NEW SERVICE

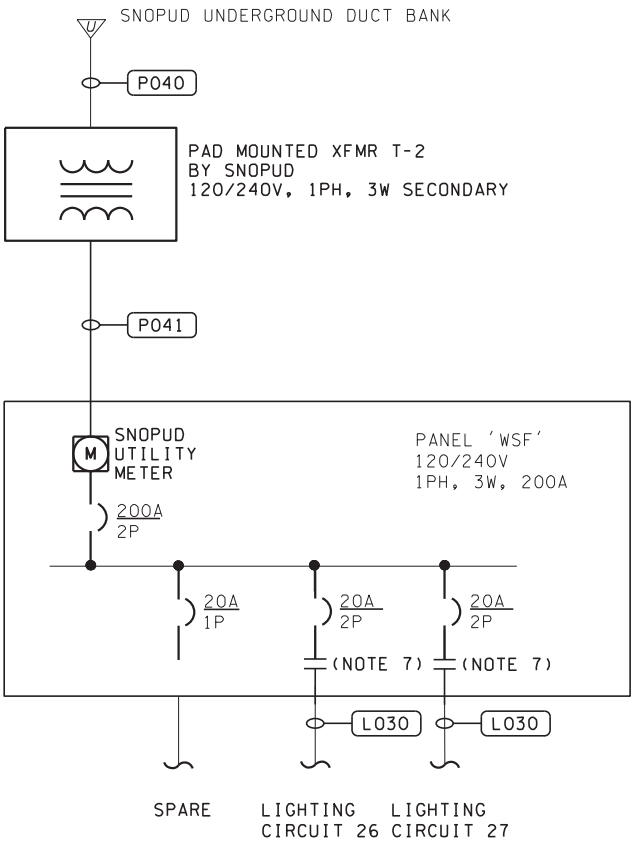
CITY OF MUKILTEO  
NEW SERVICE



WSDOT SR525  
NEW SERVICE

NOTES:

1. SEE SHEET EB00.11 FOR TERMINAL BUILDING ELECTRICAL ONE LINE. WSF NEW SERVICE INFORMATION IS SHOWN ON THAT SHEET.
2. SEE SHEET ES08.00 FOR LIGHTING CIRCUITS.
3. SEE SHEETS ES06.00 AND ES06.01 FOR COMPLETE PANEL SCHEDULES.
4. SNOPUD TO SIZE AND INSTALL TRANSFORMERS T1 AND T2. CONTRACTOR TO COORDINATE WITH SNOPUD.
5. NOT ALL CIRCUIT BREAKERS AND LOADS ON PANELBOARDS ARE SHOWN. FOR COMPLETE LIST OF ALL CIRCUIT BREAKERS AND LOADS, SEE ES06 SERIES DWG. FOR PANEL SCHEDULES.
6. SEE SHEET ES10.00 FOR CONDUIT AND CABLE SCHEDULE.
7. SEE WSDOT STANDARD PLANS FOR CONTACTOR SIZES.



WSF TRANSIT CENTER  
NEW SERVICE

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es03_10.dwg					
PRINTED: 3:35:14 PM 2/21/2018	LAST PRINTED BY: slaterj				FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17					WA-2017-007-00
DESIGNED BY: M. BAGINSKI	2/21/2018				REGION NO. STATE
ENTERED BY: J. SLATER	2/21/2018				10 WASH
CHECKED BY: C. YUN	2/21/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ELECTRICAL ONELINE DIAGRAM

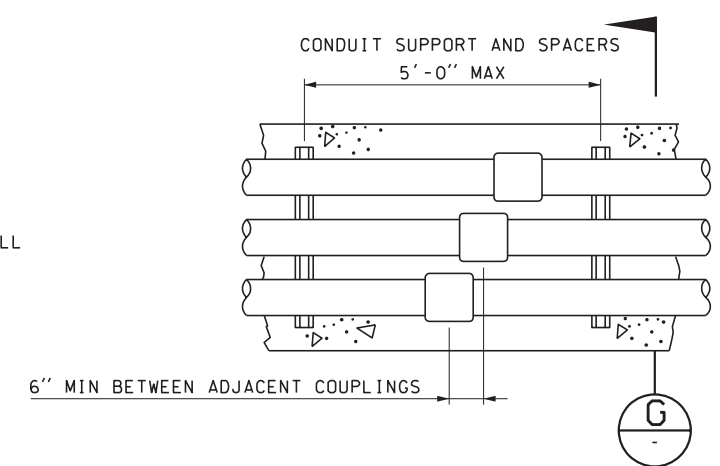
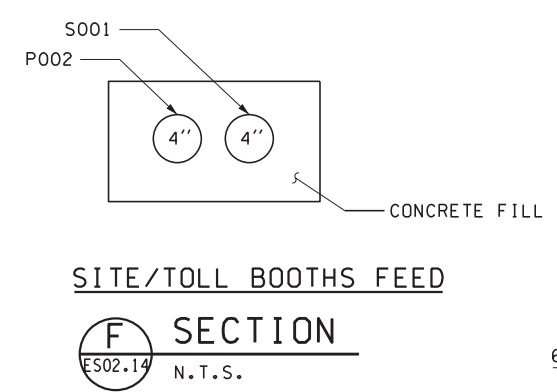
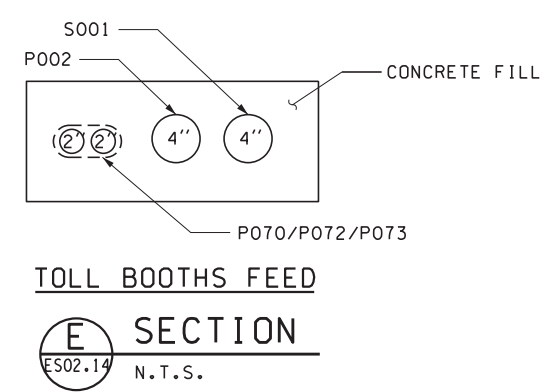
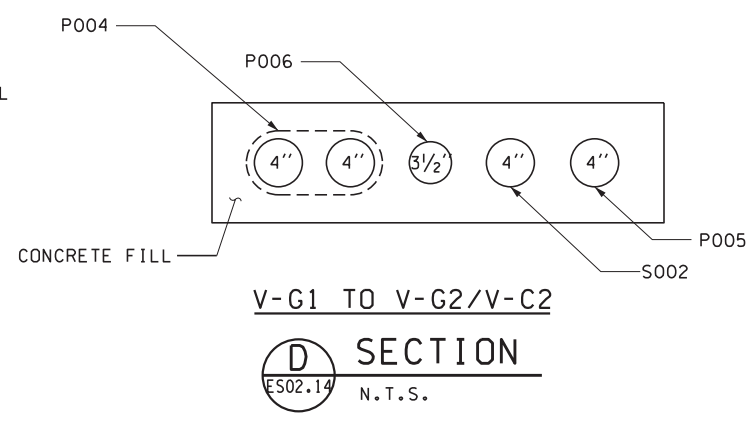
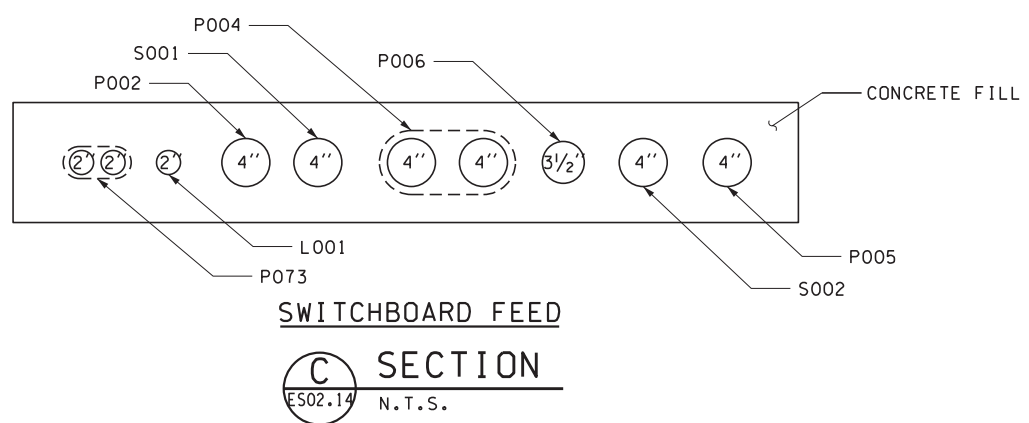
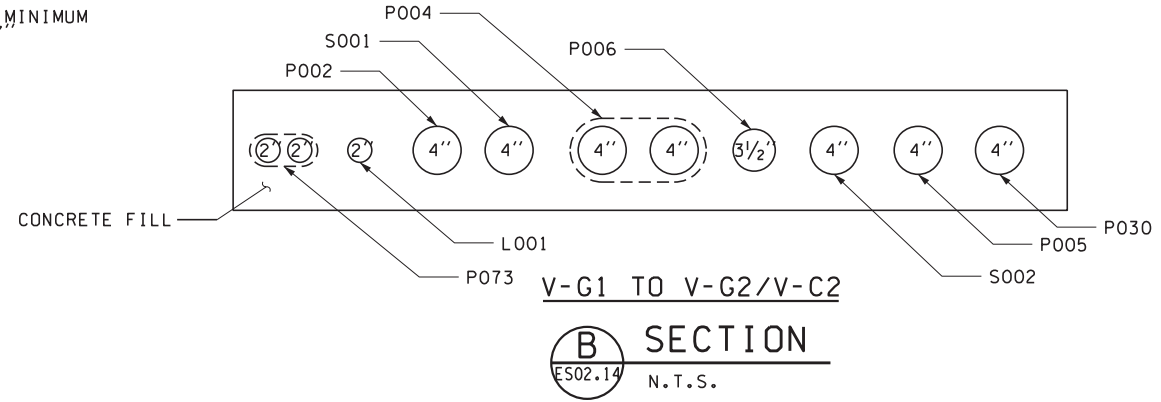
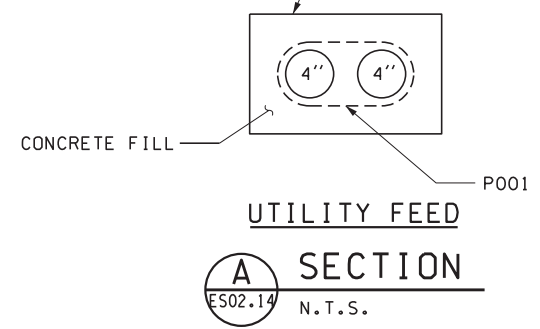
ES03.10  
SHEET  
364  
OF  
1521  
SHEETS





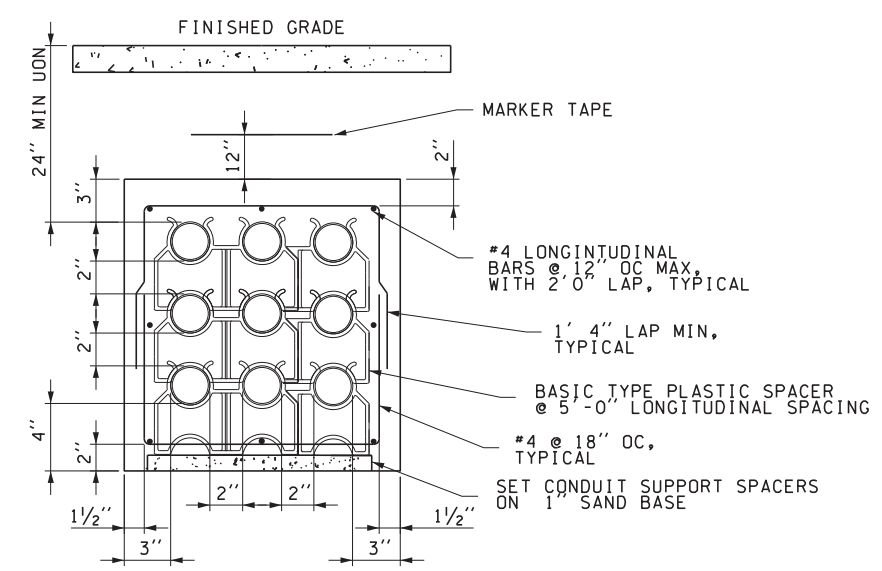


TOP OF UTILITY DUCTBANK MINIMUM  
OF 36" AND MAXIMUM OF 47"  
BELOW FINISHED GRADE.

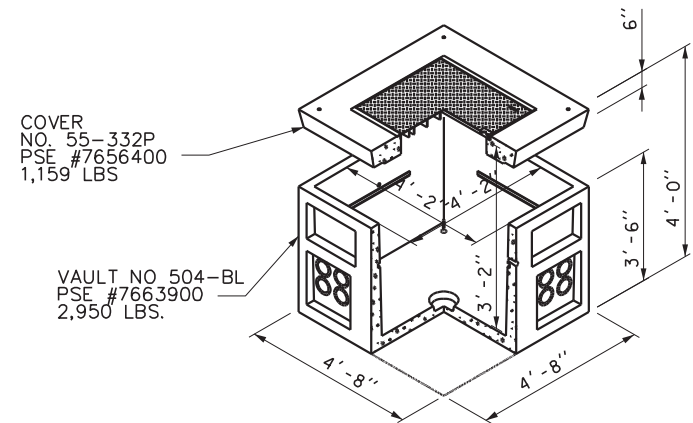


NOTES:

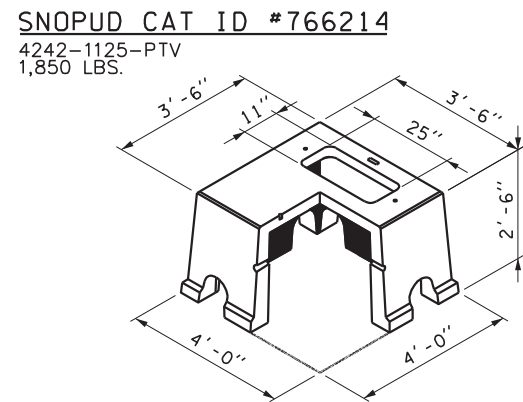
1. TOP OF CONDUIT MINIMUM OF 24" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
2. CONDUIT SIZE AS SPECIFIED IN PLAN. CONDUIT SPACING TYPICAL FOR ALL CONDUIT DUCT BANKS.
3. ALL DIMENSIONS MINIMUM UNLESS OTHERWISE NOTED.
4. SEE COMMUNICATION PLANS FOR COMMUNICATION CONDUIT DETAILS.
5. SEE SECURITY PLANS FOR SECURITY CONDUIT DETAILS.
6. PROVIDE 12" SEPARATION BETWEEN POWER AND COMM CONDUITS.
7. ALL CONDUIT DUCT BANKS TO BE REINFORCED PER TYPICAL DETAIL.
8. CONTRACTOR TO TRANSITION FROM VAULT/JUNCTION BOX CONFIGURATION TO DUCTBANK CONFIGURATION SHOWN.
9. UNDER SECTION "C" RACEWAY TAG P070 CAN ALSO BE RACEWAY P071, P072, P073, P074, OR P075. REFER TO SITE ELECTRICAL PLAN SHEETS BURIED POWER DUCTBANK ROUTING FOR THE ACTUAL RACEWAY NUMBER FOR EACH PORTION OF THE BURIED POWER DUCTBANK.





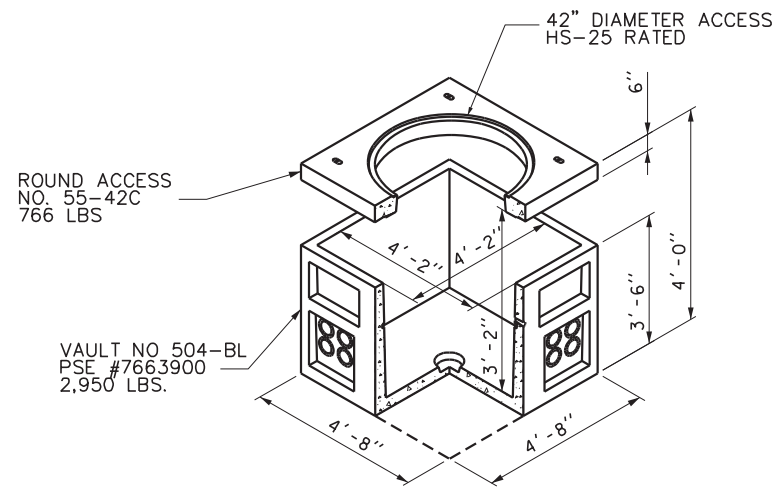


**A** SNOPUD ELECTRICAL VAULT  
V-S1 (IN SIDEWALK)



**B** SNOPUD TRANSFORMER  
VAULT T-2

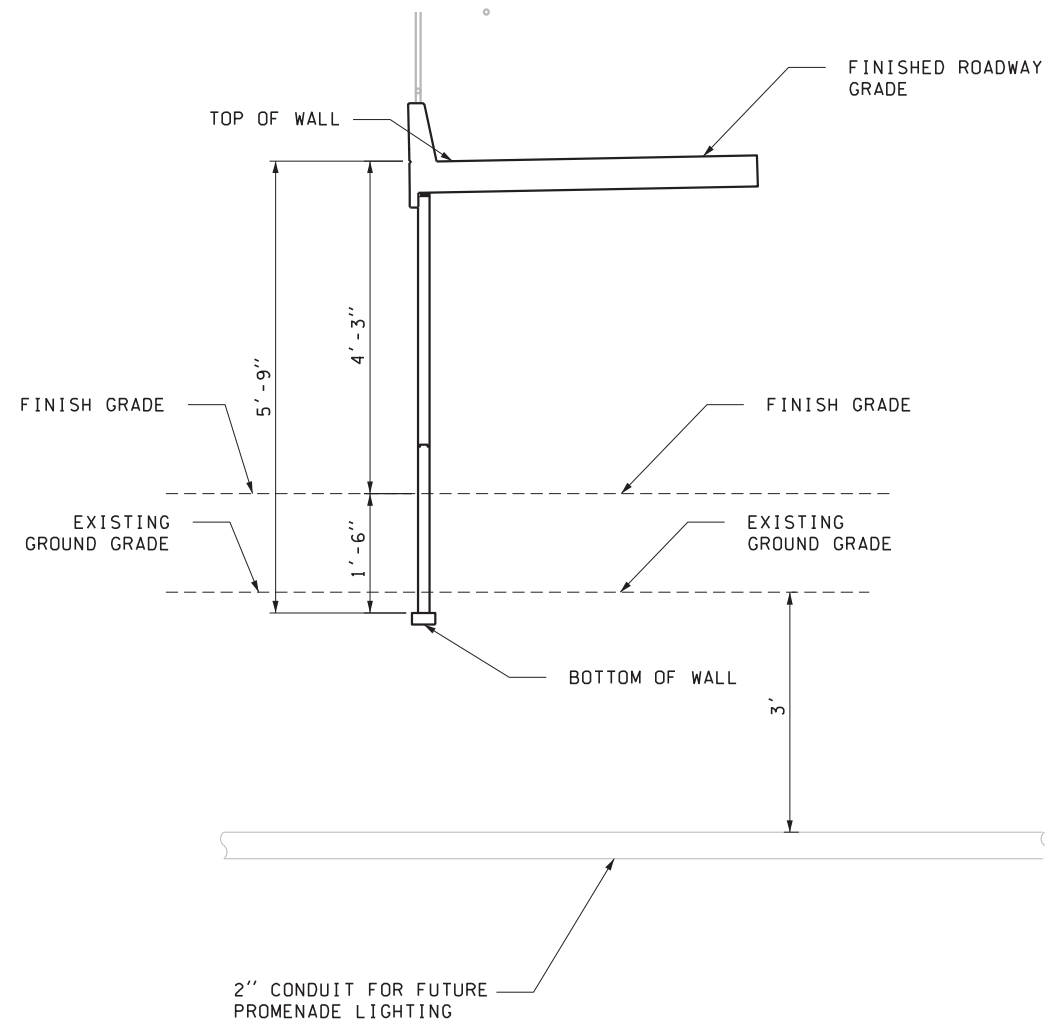
- NOTES**
1. SEE ES02 SERIES DRAWINGS FOR VAULT LOCATIONS.
  2. CONTRACTOR TO SUPPLY AND INSTALL ALL VAULTS INCLUDING SNOPUD VAULTS.



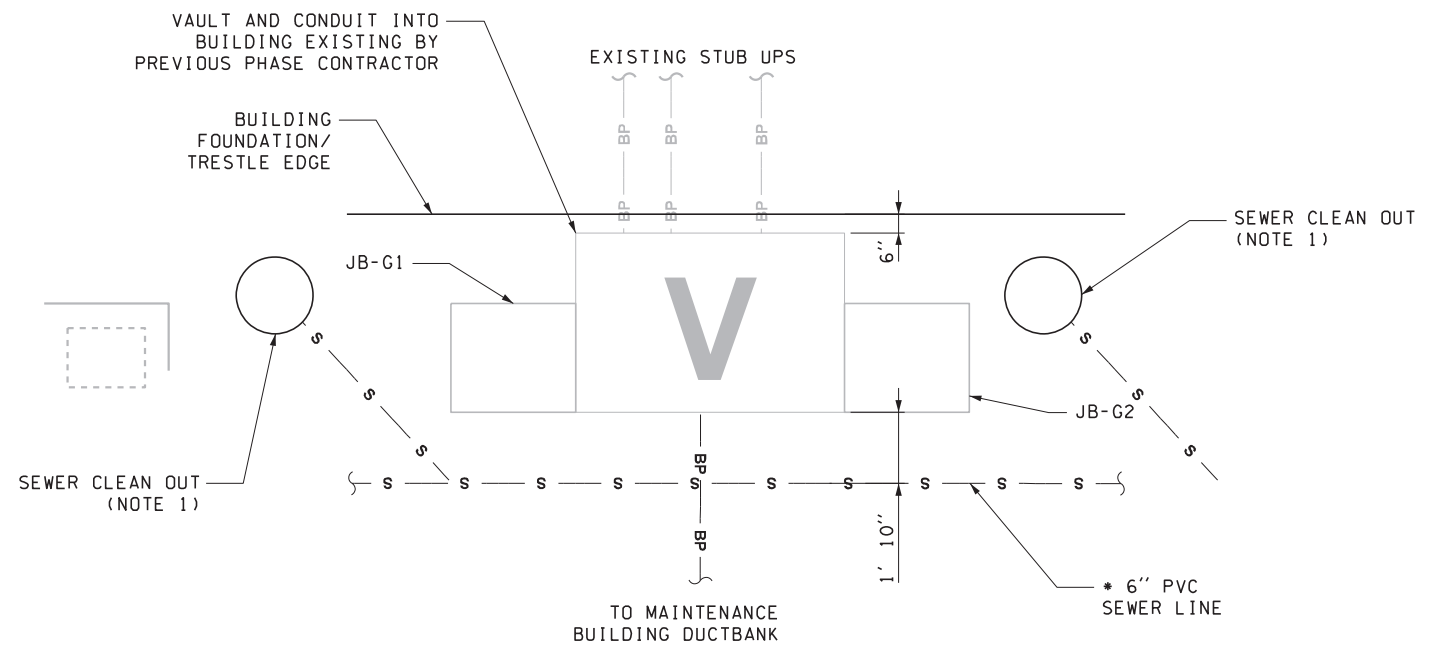
**C** SITE ELECTRICAL VAULT  
V-G1 (IN ROADWAY)

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es03.22.dwg								 <b>Washington State</b> <b>Department of Transportation</b> WASHINGTON STATE FERRIES		SR 525		ES03.22
PRINTED: 12:45:27 PM 12/15/2017		LAST PRINTED BY:		FED.AID PROJ.NO.						MUKILTEO FERRY TERMINAL (PHASE 2)		
SUBMITTAL DATE: 12/22/17		slaterj		WA-2017-007-00						FERRY TERMINAL CONSTRUCTION		SHEET
DESIGNED BY: M. BAGINSKI		12/15/2017		REGION NO. STATE						10 WASH		367
ENTERED BY: J. SLATER		12/15/2017		JOB NUMBER						18W121		OF
CHECKED BY: C. YUN		12/15/2017		CONTRACT NO.		00****		1521				
MAR PROJ ENGR: C. TORRES				REVISION		DATE BY		SHEETS				
DIR TERM ENGR: N. MCINTOSH												
ASST SECRETARY: A. SCARTON												





**A SECTION**  
ES08.13 N.T.S.



**1 VAULT V-G2**  
ES02.14 N.T.S. NOTE 1: COORDINATE WITH WASTEWATER CONTRACTOR

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es03_23.dwg					
PRINTED: 3:43:30 PM 2/22/2018	LAST PRINTED BY: slaterj				FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17					WA-2017-007-00
DESIGNED BY: M. BAGINSKI	2/22/2018				REGION NO. STATE
ENTERED BY: J. SLATER	2/22/2018				10 WASH
CHECKED BY: C. YUN	2/22/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ELECTRICAL SECTION  
DETAILS

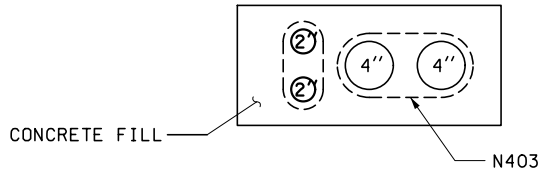
ES03.23  
SHEET  
368  
OF  
1521  
SHEETS



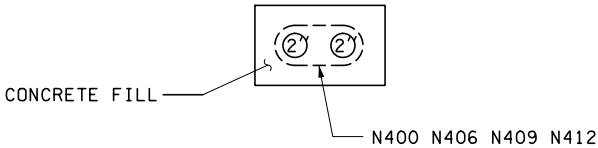
NOTES:

1. TOP OF CONDUIT MINIMUM OF 24" BELOW FINISHED GRADE. UNLESS OTHERWISE STATED.
2. CONDUIT SIZE AS SPECIFIED IN PLAN. CONDUIT SPACING TYPICAL FOR ALL CONDUIT DUCT BANKS.
3. ALL DIMENSIONS MINIMUM UNLESS OTHERWISE STATED.
4. SEE ELECTRICAL PLANS FOR OTHER CONDUIT DETAILS.

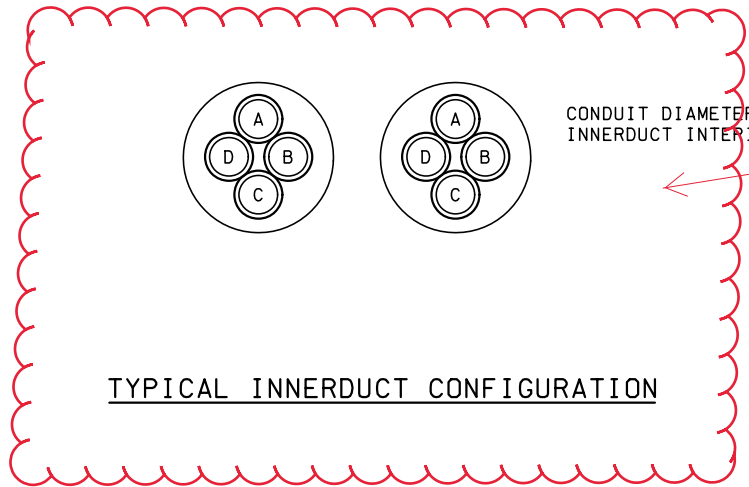
5. Per RFI 337, duct bank reinforcement is not required within 5 feet of vaults within impermeable layer zone.



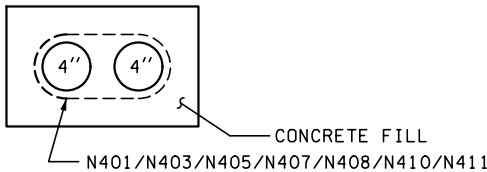
A SECTION  
ES12.13 N.T.S.  
ES12.14



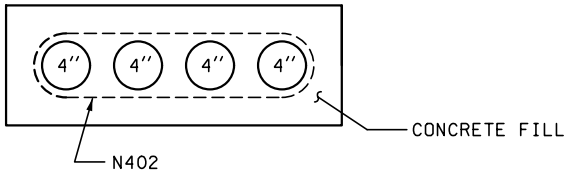
B SECTION  
ES12.13 N.T.S.  
ES12.14



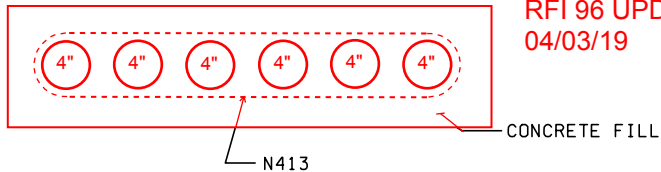
Per RFI 135 -  
Ergosynch - Jeff Roy: Innerduct  
is required in conduits having  
fiber optic cables, see below.  
N401A  
N402A  
N404A  
N405A  
N407A  
N408A  
N410A  
N411A  
N413A  
N417A  
N441C  
N442C  
N443C



C SECTION  
ES12.13 N.T.S.  
ES12.14



D SECTION  
ES12.13 N.T.S.  
ES12.14

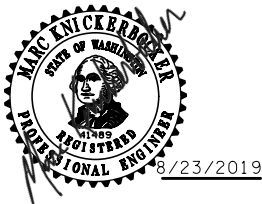


RFI 96 UPDATE  
04/03/19

E SECTION  
ES12.13 N.T.S.  
ES12.14



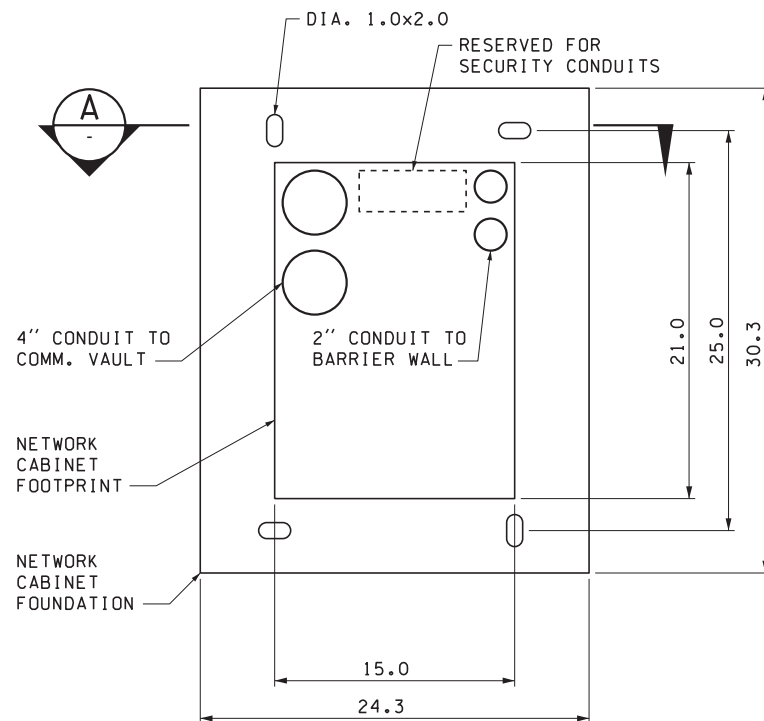
FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\14w121es03_31.dlv									
PRINTED: 4:12:39 PM 1/16/2019	LAST PRINTED BY: JMCNABB					FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19						WA-2017-007-00			
DESIGNED BY: M. KNICKERBOCKER	1/18/19					REGION NO. STATE	10 WASH		
ENTERED BY: J. MCNABB	1/18/19					JOB NUMBER	18W121		
CHECKED BY: S. HARRIS	1/18/19					CONTRACT NO.	00****		
MAR PROJ ENGR: C. TORRES		RFI 096	4/3/19						
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19						
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY					



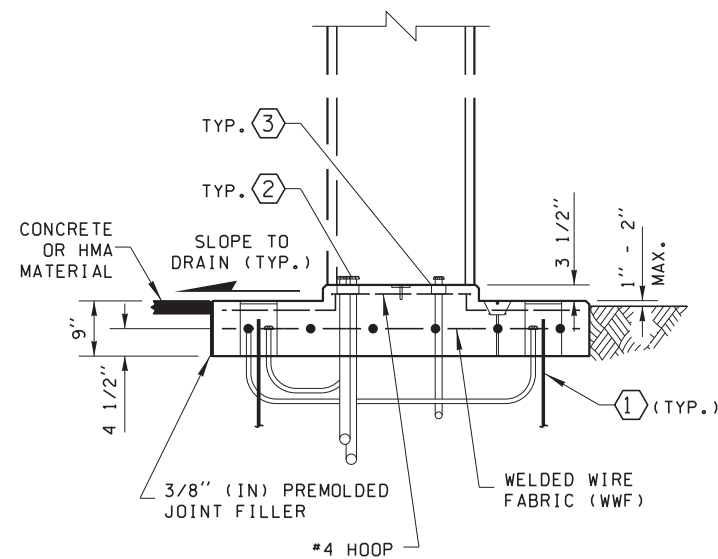
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
CONDUIT DUCT BANK  
DETAILS

ES03.31  
SHEET  
369  
OF  
1521  
SHEETS





1 NETWORK CABINET FOUNDATION PLAN DETAIL



A NETWORK CABINET FOUNDATION SECTION

## NOTES:

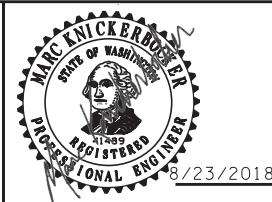
1. THE CONTRACTOR SHALL INSTALL THE CONDUITS IN THE LOCATIONS SHOWN. CONDUITS SHALL EXTEND 2" (IN) MIN. ABOVE THE COUPLING. THE GROUNDED END BUSHING ON GRS CONDUIT AND THE END BELL BUSHING ON PVC CONDUIT SHALL EXTEND 3" (IN) MAX. ABOVE THE COUPLING. THE CONDUIT CONTAINING UNFUSED UTILITY CONDUCTORS SHALL EXTEND INTO THE UTILITY CHASE.
2. THE CABINETS SHALL BE ATTACHED TO THE FOUNDATION WITH 4 EACH: 1/2" (IN) X 10" (IN) X 2" (IN) X 4" (IN) ANCHOR BOLTS (SEE DETAIL ON SHEET 4 OF 6), WASHERS, AND NUTS CONFORMING TO STANDARD SPECIFICATION 9-06.5(1) AND HOT-DIP GALVANIZED AFTER FABRICATION IN ACCORDANCE WITH AASHTO M 232. LOCATE ANCHOR BOLTS PER CABINET MANUFACTURER. STAINLESS STEEL EPOXY ANCHORS MAY BE USED AS AN ALTERNATIVE, AND SHALL BE 1/2" (IN) DIAMETER X 9" (IN), OR 5/8" (IN) DIAMETER X 8" (IN). ALL THREADED ROD (CONFORMING TO ASTM F593), WASHERS (CONFORMING TO ASTM A240), AND NUTS (CONFORMING TO ASTM F594), SHALL BE TYPE 316 STAINLESS STEEL. BOLTS SHALL EXTEND 1 1/2" (IN) MIN. TO 2" (IN) MAX. ABOVE THE CONCRETE PAD.
3. ALL REINFORCING STEEL SHALL BE EMBEDDED 2" (IN) BELOW SURFACE OF CONCRETE.
4. PLACE A 1/2" (IN) BEAD OF SILICONE BETWEEN CABINETS AND FOUNDATION.
5. CONCRETE SHALL BE CLASS 3000. SEE STANDARD SPECIFICATION 8-20.3(4).
6. VERIFY DEAD FRONT LOCATIONS FROM MANUFACTURER PRIOR TO PLACING CONDUIT IN FOUNDATION.
7. SEE STANDARD PLAN J-10.20 FOR ADDITIONAL FOUNDATION CONSTRUCTION AND CONDUIT ROUTING FOR TYPE B MODIFIED SERVICE CABINET WITH CONTROLLER CABINET.
8. VERIFY PAD SIZE AND LOCATION WITH PROJECT ENGINEER PRIOR TO PLACING.

## CONSTRUCTION NOTES:

- 1 DRIVE GROUND RODS BEFORE PLACING CONCRETE. MOVE ROD(S) AND DRAIN TILES WITH COVER(S) AS REQUIRED TO ACHIEVE FULL GROUND PENETRATION. MAINTAIN A 6' (FT) MINIMUM CLEARANCE BETWEEN GROUND RODS AND 6" (IN) FROM FOUNDATION EDGE AS DETAILED ON STANDARD PLAN J-60.05.
- 2 GRS CONDUITS PENETRATING ALL CABINETS SHALL BE TERMINATED WITH GROUNDING END BUSHING AND BONDED TO THE CABINET GROUNDING BUS. ALL PVC CONDUITS PENETRATING CABINET SHALL BE TERMINATED WITH END BELL BUSHINGS.
- 3 INSTALL CONDUIT COUPLINGS ON ALL CONDUITS. PLACE COUPLING TOPS FLUSH WITH TOP OF CONCRETE. IF PVC CONDUITS ARE SPECIFIED, THE CONDUIT STUB AND END BELL BUSHING SHALL NOT BE GLUED TO THE COUPLING.

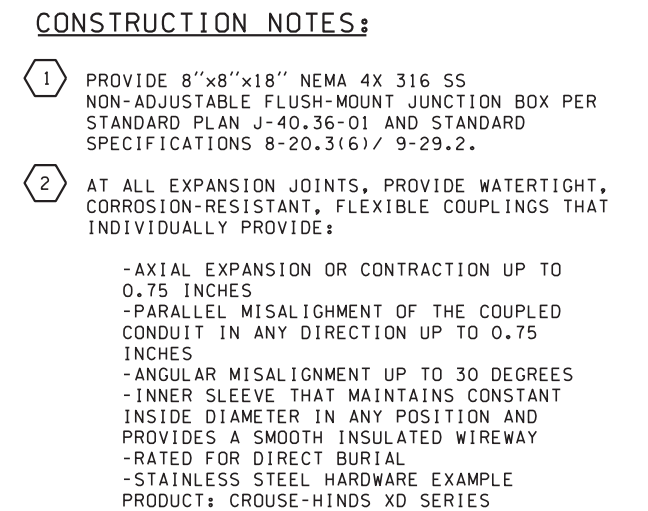


FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\FILES\$					
PRINTED: 8:02:13 AM 9/19/2018	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: \$\$\$\$DATE\$\$\$	Hollows				*-WA-***
DESIGNED BY: M. KNICKERBOCKER	9/19/2018				REGION NO. STATE
ENTERED BY: J. MCNABB	9/19/2018				10 WASH
CHECKED BY: S. HARRIS	9/19/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00****
	REVISION	DATE	BY		



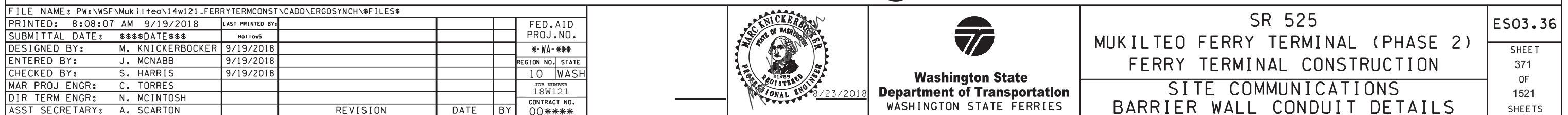
SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		ES03.34
NETWORK CABINET DETAILS		SHEET 370 OF 1521 SHEETS



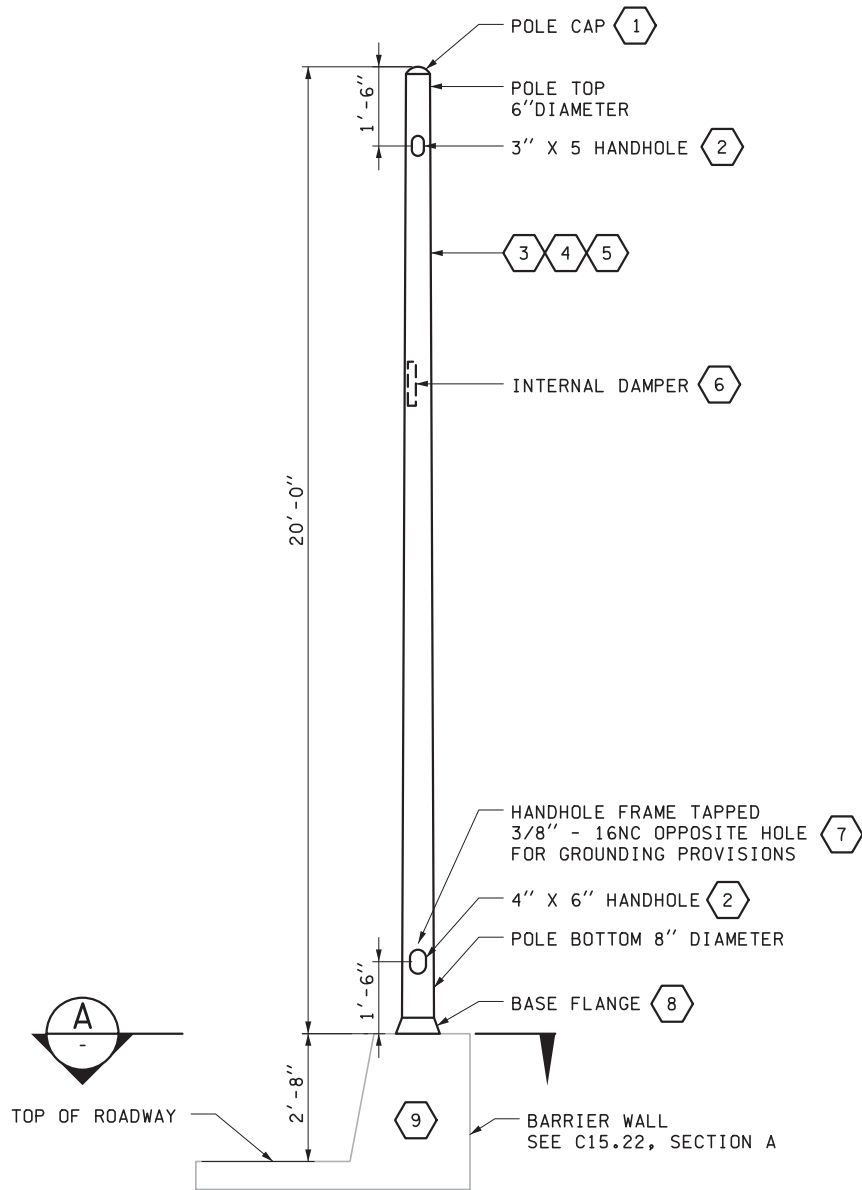


Technical drawings of the junction box assembly:

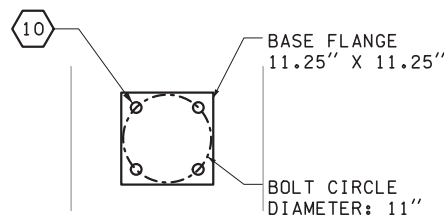
- Section A:** A cross-sectional view of the junction box. It shows a central circular fitting surrounded by a layer of polystyrene foam. The text indicates: "2" POLYSTYRENE FOAM. WRAP 1 2 TIMES AROUND CONDUIT AND CONDUIT FITTING". The drawing is labeled "START" on the left and "END" on the right.
- Section B:** A side view of the junction box assembly. It shows the "2-STAINLESS STEEL MOUNTING TABS (TOP & BOTTOM)" and the "8"X8"X8" JUNCTION BOX". A dimension line indicates a height of "1'-4"" from the base to the top of the box. The drawing is labeled "A" on the left and "B" on the right.







1 BARRIER WALL COMMUNICATION  
POLE DETAIL



A POLE BASE SECTION

CONSTRUCTION NOTES:

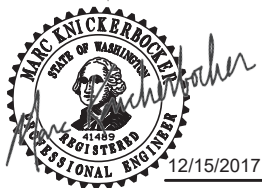
- POLE SHAFT CAP SHALL BE CAST ALUMINUM OF 443 OR 356F ALUMINUM ALLOY AND ATTACHED UTILIZING STAINLESS STEEL SCREWS.
- PROVIDE REINFORCED HANDHOLES CENTERED 18" FROM THE BOTTOM AND TOP OF THE SHAFT. A COVER WITH STAINLESS STEEL ATTACHMENT SCREWS SHALL BE PROVIDED FOR EACH HANDHOLE.
- THE SHAFT SHALL BE CONSTRUCTED OF SEAMLESS EXTRUDED TUBE OF 6063 OR 6061 ALUMINUM ALLOY PER THE REQUIREMENTS ASTM B221 OF SUFFICIENT NOMINAL THICKNESS TO MEET THE DESIGN REQUIREMENTS WITHOUT THE USE OF INTERNAL REINFORCEMENT SLEEVE. NO LONGITUDINAL SHAFT WELDS SHALL BE ALLOWED. THE SHAFT SHALL BE FULL-LENGTH HEAT-TREATED AFTER WELDING TO PRODUCE A T6 TEMPER. THE HEAT TREATING OVEN USED SHALL BE CERTIFIED TO MEET THE REQUIREMENTS OF ASTM B597 AND MIL-H-6088 SPECIFICATIONS.
- THE POLE SHAFT SHALL BE PROVIDED WITH SATIN FINISH ACCOMPLISHED BY MECHANICAL ROTARY GRINDING, MECHANICALLY ABRADING OR THERMOSET POWDER COATED PAINTED. ALL MATERIALS SHALL BE CLEANED AND FREE FROM DENTS AND UNSIGHTLY SCRATCHES. POLE SHAFTS SHALL BE SATIN GROUND, CHEMICALLY ETCHED, SANDED OR SHOT BLASTED TO ENSURE PROPER POWDER COAT SURFACE ADHESION. TO ENSURE THAT THE PREPARED PARTS ARE KEPT CLEAN AND NOT EXPOSED TO DIRT, DUST, GREASE OR OIL AND TO ENSURE MAXIMUM POWDER COAT ADHESION, THE PRODUCT SHALL PROCEED CONTINUOUSLY AND IMMEDIATELY TO THE POWDER COATING PROCESS WITHIN THE SAME FACILITY WHERE THE POLES ARE MANUFACTURED. POWDER COATING MATERIAL SHALL BE A THERMOSETTING POLYESTER POWDER COATING. A MINIMUM COATING THICKNESS OF 2.0 MILS SHALL BE MAINTAINED.
- WELDING SHALL BE DONE BY INERT GAS SHEILDED METAL ARC METHOD WITH CONSUMABLE ELECTRODE. ALUMINUM ALLOY 1043 ELECTRODE SHALL BE USED. WELDING SHALL BE IN ACCORDANCE WITH AWS SPECIFICATION D1.2, STRUCTURAL WELDING CODE - ALUMINUM.
- PROVIDE FACTORY INSTALLED INTERNAL VIBRATION DAMPER.
- EACH POLE SHAFT SHALL CONTAIN AN INTERNAL GROUND PROVISION FOR THE PURPOSE OF ATTACHING A GROUNDING CONNECTOR.
- THE BASE FLANGE FOR THE ATTACHMENT OF THE SHAFT TO THE BARRIER WALL FOUNDATION SHALL BE ONE PIECE CAST SOCKET OF ALUMINUM ALLOY 356 PER ASTM B26 OR B108. BASE FLANGE SHALL BE JOINED TO POLE SHAFT BY MEANS OF COMPLETE CIRCUMFERENTIAL WELDS; EXTERNALLY AT THE TOP OF THE FLANGE AND INTERNALLY AT BOTTOM OF SHAFT TUBE. FOUR ANCHOR BOLT COVERS OF CAST ALUMINUM AND STAINLESS STEEL SCREWS FOR THEIR ATTACHMENT SHALL BE PROVIDED.
- INSTALL CONDUIT FROM NEAREST JUNCTION BOX IN BARRIER WALL TO BASE OF THE POLE PER DRAWING ES03.36.
- COORDINATE REQUIREMENTS FOR ANCHOR BOLTS INSTALLATION IN BARRIER WALL WITH THE POLE MANUFACTURER. EACH ANCHOR BASE POLE SHALL BE SUPPLIED WITH ANCHOR BOLTS. ANCHOR BOLTS SHALL HAVE MINIMUM YIELD STRENGTH OF 55,000 PSI PER AASHTO M314-90. STEEL ANCHOR BOLTS THREADED AND HOT DIPPED GALVANIZED AT THE THREADED END PER ASTM A153 SHALL BE SUPPLIED WITH EACH POLE. THE BOLTS SHALL INCLUDE A RIGHT ANGLE HOOK AT THE UNTHREADED END. EACH BOLT SHALL INCLUDE ONE NUT, ONE FLATWASHER AND ONE LOCKWASHER GALVANIZED PER ASTM A153 SHALL BE SUPPLIED WITH EACH ANCHOR BOLT.

NOTES:

- EXAMPLE PRODUCT: HAPCO, MODEL RTA20D8C4-\*\* (ROUND TAPPED POLE).
- COMMUNICATION POLES ARE PROVIDED FOR MOUNTING OF SPEAKERS TO BE INSTALLED WITH PUBLIC ADDRESS.



FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\14w121es03_37.dlv					
PRINTED: 3:29:09 PM 12/6/2017	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17	JMCNABB				WA-2017-007-00
DESIGNED BY: M. KNICKERBOCKER	12/22/17				REGION NO. STATE
ENTERED BY: J. MCNABB	12/22/17				10 WASH
CHECKED BY: S. HARRIS	12/22/17				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON					00*****
	REVISION	DATE	BY		



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
COMMUNICATIONS  
POLE DETAILS

ES03.37  
SHEET  
372  
OF  
1521  
SHEETS



PANEL WSDOT #1 (NEW)			
MOUNTING:	<u>SURFACE</u>	MAIN RATING:	<u>200A PANEL, 200A MB</u>
NEMA RATING:	<u>NEMA 3R</u>	MAIN CABLES:	<u>BY SNOFUD</u>
VOLTAGE:	<u>120/240V, 1PH, 3W</u>	SOURCE:	<u>EXISTING UTILITY XFMR</u>
		LOCATION:	<u>SITE ELECTRICAL</u>
			<u>SR525 INTERSECTION</u>
		AIC RATINGS:	<u>10,000</u>

NOTES:	
1.	
2.	
3.	
4.	
5.	

SUB-FEED	
SUB-FEED CABLES	

**NEW PANEL WSDOT NOTES:**

1. WSDOT STANDARD TYPE 'D' SERVICE CABINET.
2. CONTRACTOR TO INSTALL 20A LIGHTING CONTACTORS FOR LIGHTING CIRCUITS. SEE WSDOT STANDARD DETAIL J-10.21-00 FOR WIRING DIAGRAM.

OCPD SIZING	
<i>125% CONTINUOUS</i>	
LIGHTING (VA)	660
MISC. CONTINUOUS (VA)	10290
HEATING (VA)	300
WATER HEATING (VA)	0
<i>100% NONCONTINUOUS</i>	
RECEPTACLE (VA)	3600
MISC. NONCONTINUOUS (VA)	0
MOTORS + 25% LARGEST MOTOR (VA)	0
AC (VA)	0
SPARE (VA)	2520
<b>MIN TOTAL (VA)</b>	<b>17370</b>
<b>MIN TOTAL (A) AT 240V</b>	<b>72.38</b>



## PANEL WSDOT #2 (NEW)

MOUNTING:	<u>SURFACE</u>	MAIN RATING:	<u>200A PANEL 200A MB</u>	LOCATION:	<u>SITE ELECTRICAL</u>
NEMA RATING:	<u>NEMA 3R</u>	MAIN CABLES:	<u>BY SNOPI</u>		<u>TOLL PLAZA INTERSECTION</u>
VOLTAGE:	<u>120/240V, 1PH, 3W</u>	SOURCE:	<u>UTILITY XFMR T-1</u>	AIC RATINGS:	<u>10,000</u>

[illegible]

NOTES:	
1.	
2.	
3.	
4.	
5.	

TOTAL AMPERES	
BUS A	27.5
BUS D	19.8

SUB-FEED	
SUB-FEED CABLES	

MAXIMUM KVA
7

NEW PANEL WSDOT NOTES:

1. WSDOT STANDARD TYPE 'D' SERVICE CABINET.
2. CONTRACTOR TO INSTALL 20A LIGHTING CONTACTORS FOR LIGHTING CIRCUITS. SEE WSDOT STANDARD DETAIL J-10.21-00 FOR WIRING DIAGRAM.

**PANEL WSDOT #2 (NEW)**

LOAD TYPE	CONNECTED	DEMAND
LIGHTING (VA)	2880	2880
RECEPTACLE (VA)	3600	3600
MISC. CONTINUOUS (VA)	2880	2880
MISC. NONCONTINUOUS (VA)	0	0
MOTORS (VA)	0	0
25% OF LARGEST MOTOR (VA)	0	0
HEATING (VA)	1992	1992
A/C (VA)	0	0
WATER HEATING (VA)	0	0
<b>SUBTOTAL (VA)</b>	<b>11352</b>	<b>11352</b>
<b>TOTAL (A) AT 240V</b>	<b>47.30</b>	<b>47.30</b>
20% SPARE (VA)		2270
<b>TOTAL (VA)</b>		<b>13622</b>
<b>TOTAL (A) AT 240V</b>		<b>56.76</b>

DEMAND = 100% CONNECTED  
 NEC TABLE 220.44  
 DEMAND = 100% CONNECTED  
 DEMAND = 100% CONNECTED  
 DEMAND = 100% CONNECTED  
 DEMAND = 100% CONNECTED  
 DEMAND = 100% CONNECTED  
 COUNTED HEATING OR AC,  
 WHICHEVER IS LARGER.  
 DEMAND = 100% CONNECTED

OCPD SIZING	
<i>125% CONTINUOUS</i>	
LIGHTING (VA)	3600
MISC. CONTINUOUS (VA)	3600
HEATING (VA)	2490
WATER HEATING (VA)	0
<i>100% NONCONTINUOUS</i>	
RECEPTACLE (VA)	3600
MISC. NONCONTINUOUS (VA)	0
MOTORS + 25% LARGEST MOTOR (VA)	0
AC (VA)	0
SPARE (VA)	2270
<b>MIN TOTAL (VA)</b>	<b>15560</b>
<b>MIN TOTAL (A) AT 240V</b>	<b>64.84</b>

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es06-01.dlv									
PRINTED: 12:50:38 PM 12/15/2017		LAST PRINTED BY:					FED.AID PROJ.NO.		
SUBMITTAL DATE: 12/22/17		storj							
DESIGNED BY: M. BAGINSKI		12/15/2017					WA-2017-007-00		
ENTERED BY: J. SLATER		12/15/2017					REGION NO.		STATE
CHECKED BY: C. YUN		12/15/2017					10		WASH
MAR PROJ ENGR: C. TORRES							JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH							18W121		
ASST SECRETARY: A. SCARTON							CONTRACT NO.		
REVISION					DATE	BY	00****		



2/22/2018



**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

# SITE ELECTRICAL PANEL SCHEDULES

ES06.01

SHEET  
374  
OF  
1521  
SHEETS



## PANEL MUK (NEW)

CKT	BREAKER	WIRE SIZE	DESCRIPTION	AMPERES			CKT	BREAKER	WIRE SIZE	DESCRIPTION	AMPERES			
				A	B	C					A	B	C	
1	20A/2P	#10	LIGHTING CIRCUIT 11	1	-		2	20A/2P	#10	LIGHTING CIRCUIT 15	0.9	-		
3	-	-		-	1		4	-	-		-	0.9		
5	20A/2P	#10	LIGHTING CIRCUIT 12	1	-		6	20A/2P	#6	LIGHTING CIRCUIT 16	0.5	-		
7	-	-		-	1		8	-	-		-	0.5		
9	20A/2P	#10	LIGHTING CIRCUIT 13	1.3	-		10	20A/2P	#12	IRRIGATION CONTROLLER	2	-		
11	-	-		-	1.3		12	-	-		-	0		
13	20A/2P	#10	LIGHTING CIRCUIT 14	1.3	-		14	20A/1P	-	SPARE	0	-		
15	-	-		-	1.3		16	15A/1P	#14	PHOTOCELL	-	8.3		
17	-	-	SPACE	0	-		18	20A/1P	#12	RECEPTACLE	15	-		
TOTAL				5	5						TOTAL	18	10	

MAXIMUM KVA
6

1. WSDOT STANDARD TYPE 'B' MODIFIED SERVICE CABINET.  
2. CONTRACTOR TO INSTALL 20A LIGHTING CONTACTORS FOR LIGHTING CIRCUITS. SEE WSDOT STANDARD DETAIL J-10.20-01 FOR WIRING DIAGRAM.

LOAD TYPE	CONNECTED	DEMAND
LIGHTING (VA)	3312	3312
RECEPTACLE (VA)	3600	3600
MISC. CONTINUOUS (VA)	1992	1992
MISC. NONCONTINUOUS (VA)	0	0
MOTORS (VA)	0	0
25% OF LARGEST MOTOR (VA)	0	0
HEATING (VA)	0	0
AC (VA)	0	0
WATER HEATING (VA)	0	0
<b>SUBTOTAL (VA)</b>	<b>8904</b>	<b>8904</b>
<b>TOTAL (A) AT 240V</b>	<b>37.0</b>	<b>37.10</b>
20% SPARE (VA)		1781
<b>TOTAL (VA)</b>		<b>10685</b>
<b>TOTAL (A) AT 240V</b>		<b>44.52</b>

<b>CCPD SIZING</b>	
<i>125% CONTINUOUS</i>	
LIGHTING (VA)	4140
MISC. CONTINUOUS (VA)	2490
HEATING (VA)	0
WATER HEATING (VA)	0
<i>100% NCNCONTINUOUS</i>	
RECEPTACLE (VA)	3600
MISC. NONCONTINUOUS (VA)	0
MOTORS + 25% LARGEST MOTOR (VA)	0
AC (VA)	0
SPARE (VA)	1781
<b>MIN TOTAL (VA)</b>	<b>12011</b>
<b>MIN TOTAL (A) AT 240V</b>	<b>50.05</b>



## PANEL WSF (NEW)

LOCATION: SITE ELECTRICAL  
TRANSIT CENTER

AIC RATINGS: 10.000

CKT	BREAKER	WIRE SIZE	DESCRIPTION	AMPERES			CKT	BREAKER	WIRE SIZE	DESCRIPTION	AMPERES		
				A	B	C					A	B	C
1	20A/2P	#10	LIGHTING CIRCUIT 26	2	-		2	15A/1P	#14	PHOTOCELL	8.3	-	
3	-	-		-	2		4	20A/1P	#12	RECEPTACLE	-	15	
5	20A/2P	#10	LIGHTING CIRCUIT 27	2	-		6	-	-	SPACE	0	-	
7	-	-		-	2		8	-	-	SPACE	-	0	
9	20A/1P	-	SPARE	0	-		10	-	-	SPACE	0	-	
11	20A/1P	-	SPARE	-	0		12	-	-	SPACE	-	0	
13	-	-	SPACE	0	-		14	-	-	SPACE	0	-	
15	-	-	SPACE	-	0		16	-	-	SPACE	-	0	
17	-	-	SPACE	0	-		18	-	-	SPACE	0	-	
TOTAL				4	4		TOTAL				8	15	

NOTES:	
1.	
2.	
3.	
4.	
5.	

TOTAL AMPERES	
BUS A	12.3
BUS B	19

MAXIMUM KVA
5

SUB-FEED	
SUB-FEED CABLES	

## NEW PANEL WSF NOTES:

1. WSDOT STANDARD TYPE 'D' SERVICE CABINET.  
2. CONTRACTOR TO INSTALL 20A LIGHTING CONTACTORS FOR LIGHTING CIRCUITS. SEE WSDOT STANDARD DETAIL J-10.21-00 FOR WIRING DIAGRAM.

PANEL WSF (NEW)			
LOAD TYPE	CONNECTED	DEMAND	
LIGHTING (VA)	1920	1920	DEMAND = 100% CONNECTED
RECEPTACLE (VA)	0	0	NEC TABLE 220.44
MISC. CONTINUOUS (VA)	5592	5592	DEMAND = 100% CONNECTED
MISC. NONCONTINUOUS (VA)	0	0	DEMAND = 100% CONNECTED
MOTORS (VA)	0	0	DEMAND = 100% CONNECTED
25% OF LARGEST MOTOR (VA)	0	0	DEMAND = 100% CONNECTED
HEATING (VA)	0	0	COUNTED HEATING OR AC,
AC (VA)	0	0	WHICHEVER IS LARGER
WATER HEATING (VA)	0	0	DEMAND = 100% CONNECTED
SUBTOTAL (VA)	7512	7512	
TOTAL (A) AT 240V	31.30	31.30	
20% SPARE (VA)		1502	
TOTAL (VA)		9014	
TOTAL (A) AT 240V		37.56	

OCPD SIZING	
125% CONTINUOUS	
LIGHTING (VA)	2400
MISC. CONTINUOUS (VA)	6990
HEATING (VA)	0
WATER HEATING (VA)	0
100% NONCONTINUOUS	
RECEPTACLE (VA)	0
MISC. NONCONTINUOUS (VA)	0
MOTORS + 25% LARGEST MOTOR (VA)	0
AC (VA)	0
SPARE (VA)	1502
MIN TOTAL (VA)	10892
MIN TOTAL (A) AT 240V	45.39

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es06_03.dlv									
PRINTED: 12:54:53 PM 12/15/2017			LAST PRINTED BY:					FED.AID PROJ.NO.	
SUBMITTAL DATE: 12/22/17			SLATERJ						
DESIGNED BY: M. BAGINSKI			12/15/2017					WA-2017-007-00	
ENTERED BY: J. SLATER			12/15/2017					REGION NO. STATE	
CHECKED BY: C. YUN			12/15/2017					10 WASH	
MAR PROJ ENGR: C. TORRES								JOB NUMBER 18W121	
DIR TERM ENGR: N. MCINTOSH								CONTRACT NO. 00****	
ASST SECRETARY: A. SCARTON					REVISION		DATE BY		



2/22/2018



**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

# SITE ELECTRICAL PANEL SCHEDULES

ES06.03



SHEET  
376  
OF  
1521  
SHEETS



LUMINAIRE SCHEDULE - CITY OF MUKILTEO (MUK)									
LUMINAIRE NUMBER	CIRCUIT	LOCATION			TYPE-DIST-WATTAGE	MAST ARM	H1	POLE TYPE	COMMENTS
		ALIGNMENT	STATION	OFFSET					
LP1101	11	TF LINE	110+02.23	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1102	11	TF LINE	111+70.61	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1103	11	TF LINE	113+42.32	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1104	11	TF LINE	115+22.14	22.4' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	SEE DWG ES09.00
LP1105	11	TF LINE	117+04.7	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	SEE DWG ES09.00
LP1106	11	TF LINE	118+80.28	22.0' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	SEE DWG ES09.00
LP1107	11	TF LINE	120+78.29	22.9' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1108	11	TF LINE	122+78.79	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1109	11	TF LINE	124+90.72	19.8' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1201	12	TF LINE	109+30.03	15.0' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1202	12	TF LINE	110+93.95	20.7' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1203	12	TF LINE	112+59.82	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1204	12	TF LINE	114+32.08	22.1' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1205	12	TF LINE	116+12.39	22.6' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	SEE DWG ES09.00
LP1206	12	TF LINE	118+00.38	22.6' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	SEE DWG ES09.00
LP1207	12	TF LINE	120+06.57	15.0' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1208	12	TF LINE	121+77.78	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1209	12	TF LINE	123+78.12	22.5' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1301	13	TF LINE	106+39.34	33.0' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1302	13	TF LINE	104+89.37	59.0' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1303	13	TF LINE	102+99.2	34.2' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1304	13	TF LINE	101+11.53	34.3' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1305	13	TF LINE	105+85.94	27.0' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1306	13	TF LINE	104+32.45	27.2' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1307	13	TF LINE	102+26.95	27.2' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1308	13	COM LINE	21+60.77	17.45' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1309	13	COM LINE	22+27.70	32.1' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1310	13	COM LINE	24+23.98	32.2' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1311	13	TF LINE	100+21.58	110' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1401	14	TF LINE	107+40.43	33.0' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1402	14	TF LINE	105+27.93	33.0' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1403	14	TF LINE	104+01.29	34.3' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1404	14	TF LINE	102+04.98	34.3' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1405	14	TF LINE	106+96.19	27.0' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1406	14	TF LINE	105+13.76	27.8' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1407	14	TF LINE	103+27.26	27.2' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1408	14	TF LINE	101+26.64	27.2' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1409	14	COM LINE	21+28.71	32.0' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1410	14	COM LINE	23+25.84	32.2' RT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
LP1411	14	COM LINE	23+98.81	30.7' LT	III-MED DIRECT-56W LED	6'	25'	MUKILTEO	-
BL1501	15	E LINE	17+62.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1502	15	E LINE	17+82.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1503	15	E LINE	18+02.0	26.9' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1504	15	E LINE	18+22.0	26.9' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1505	15	E LINE	18+42.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1506	15	E LINE	18+62.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1507	15	E LINE	18+82.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1508	15	E LINE	19+02.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1509	15	E LINE	19+22.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1510	15	E LINE	19+42.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-

CONT. - LUMINAIRE SCHEDULE - CITY OF MUKILTEO (MUK)									
LUMINAIRE NUMBER	CIRCUIT	LOCATION			TYPE-DIST-WATTAGE	MAST ARM	H1	POLE TYPE	COMMENTS
		ALIGNMENT	STATION	OFFSET					
BL1511	15	E LINE	19+62.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1512	15	E LINE	19+82.0	22.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1601	16	TF LINE	120+48.0	148.2' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1602	16	TF LINE	120+66.1	146.8' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1603	16	TF LINE	120+81.6	145.8' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1604	16	TF LINE	120+97.0	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1605	16	TF LINE	121+17.0	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1606	16	TF LINE	121+37.2	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1607	16	TF LINE	121+61.6	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1608	16	TF LINE	121+81.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1609	16	TF LINE	122+01.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1610	16	TF LINE	122+21.8	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1611	16	TF LINE	122+41.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1612	16	TF LINE	122+61.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1613	16	TF LINE	122+81.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1614	16	TF LINE	123+01.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1615	16	TF LINE	123+21.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1616	16	TF LINE	123+41.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1617	16	TF LINE	123+61.5	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1618	16	TF LINE	123+81.7	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1619	16	TF LINE	124+00.6	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1620	16	TF LINE	124+16.2	145.9' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1621	16	TF LINE	124+33.3	143.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1622	16	TF LINE	124+56.8	145.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL1623	16	TF LINE	124+71.3	126.6' LT	VS-MED-41W LED	-	-	BOLLARD	-

PER RFI 261 - Luminaire LP1109 should be installed at sta 124+82.7 LT 17.54'

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es07_00.dlv												Washington State Department of Transportation WASHINGTON STATE FERRIES	SR 525		ES07.00
PRINTED: 3:45:32 PM 1/16/2019		LAST PRINTED BY:		FED.AID PROJ.NO.		MUKILTEO FERRY TERMINAL (PHASE 2)									
SUBMITTAL DATE: 1/18/19		slater.j		WA-2017-007-00		FERRY TERMINAL CONSTRUCTION		SHEET							
DESIGNED BY: J. SLATER		1/18/19		REGION NO. STATE				377							
ENTERED BY: J. SLATER		1/18/19		10 WASH				OF							
CHECKED BY: M. BAGINSKI		1/18/19		JOB NUMBER				1521							
MAR PROJ ENGR: C. TORRES				18W121				SHEETS							
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS		1/18/19											
ASST SECRETARY: A. SCARTON		REVISION		DATE BY											
				CONTRACT NO. 009321											



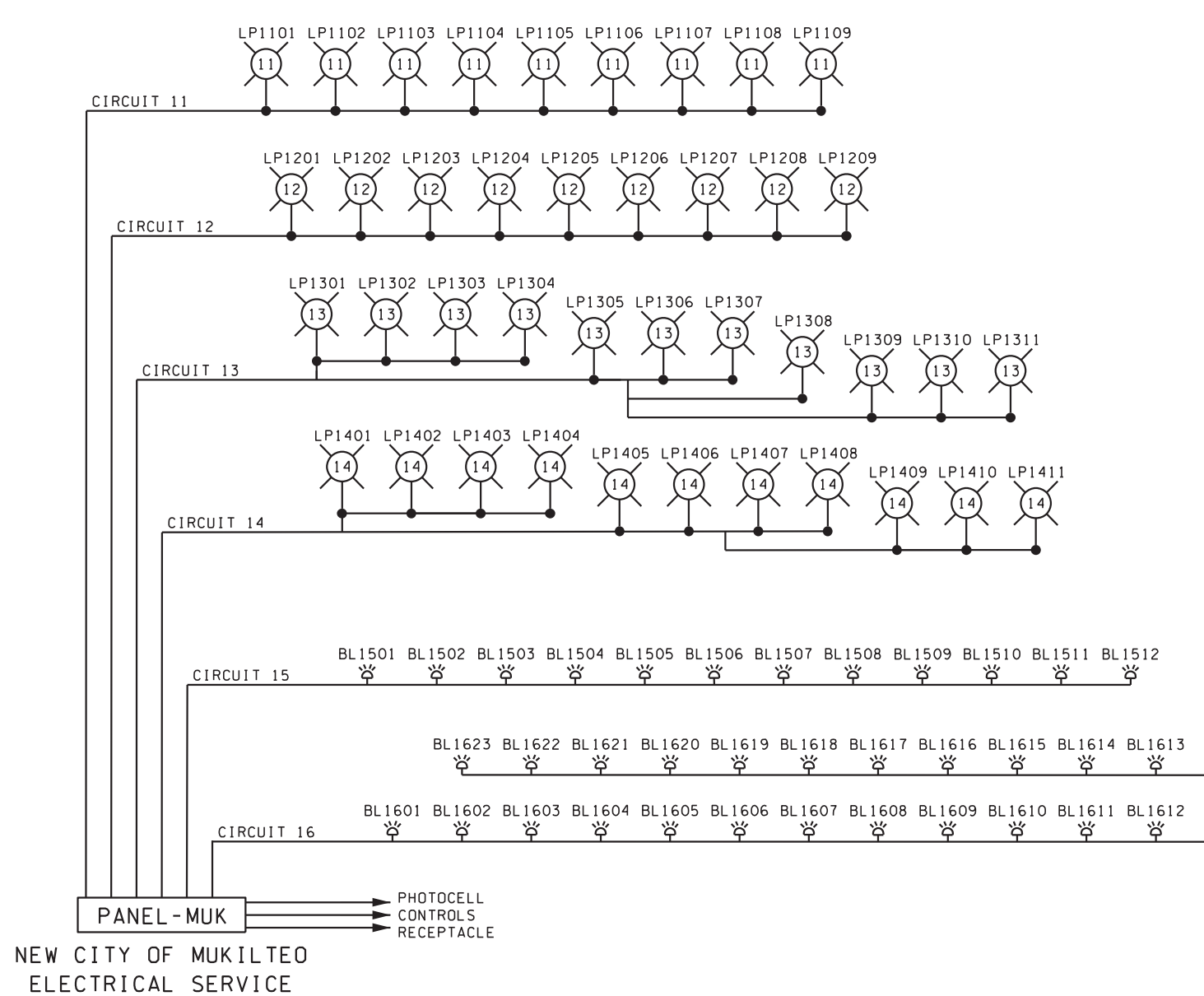
LUMINAIRE SCHEDULE - WASHINGTON STATE FERRIES (WSF)									
LUMINAIRE NUMBER	CIRCUIT	LOCATION			TYPE-DIST-WATTAGE	MAST ARM	H1	POLE TYPE	COMMENTS
		ALIGNMENT	STATION	OFFSET					
BL2101	21	E LINE	16+74.8	19.4' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2102	21	E LINE	15+81.6	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2103	21	E LINE	14+88.9	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2104	21	E LINE	13+97.3	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2105	21	E LINE	13+04.2	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2106	21	E LINE	12+13.1	19.4' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2107	21	E LINE	11+27.3	21.9' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2201	22	E LINE	16+28.3	19.4' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2202	22	E LINE	15+35.5	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2203	22	E LINE	14+43.5	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2204	22	E LINE	13+50.9	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2205	22	E LINE	12+57.3	19.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2206	22	E LINE	11+71.5	21.5' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2207	22	E LINE	10+86.2	22.9' LT	VS-MED-41W LED	-	-	BOLLARD	-
LP2301	23	E LINE	21+34.47	23.4' RT	II-MED-315W LED	6'	40'	WSF	OCCUPANCY SENSOR, SEE DWG ES09.00
LP2302	23	E LINE	18+11.73	22.7' RT	II-MED-315W LED	6'	40'	WSF	OCCUPANCY SENSOR, SEE DWG ES09.00
LP2303	23	E LINE	14+48.12	16.7' RT	II-MED-315W LED	6'	40'	WSF	OCCUPANCY SENSOR
LP2304	23	E LINE	13+75.24	22.3' RT	II-MED-315W LED	6'	30'	WSF	OCCUPANCY SENSOR
LP2305	23	E LINE	11+15.2	22.5' RT	II-MED-315W LED	6'	30'	WSF	OCCUPANCY SENSOR, <del>HOUSE SIDE SHIELD</del>
LP2306	23	E LINE	12.71.52	106.6' RT	IV-SHORT-213W LED	6'	30'	WSF	OCCUPANCY SENSOR, HOUSE SIDE SHIELD
LP2400	24	E LINE	21+34.47	23.4' RT	II-MED-315W LED	6'	40'	WSF	OCCUPANCY SENSOR, SEE DWG ES09.00
LP2401	24	E LINE	19+87.2	23.5' RT	II-MED-315W LED	6'	40'	WSF	OCCUPANCY SENSOR, SEE DWG ES09.00
LP2402	24	E LINE	16+34.17	16.6' RT	II-MED-315W LED	6'	40'	WSF	OCCUPANCY SENSOR, SEE DWG ES09.00
LP2403	24	E LINE	13+75.24	22.3' RT	II-MED-315W LED	6'	30'	WSF	OCCUPANCY SENSOR,
LP2404	24	E LINE	12+49.17	21.32' RT	II-MED-315W LED	6'	30'	WSF	OCCUPANCY SENSOR,
LP2405	24	E LINE	11+41.45	96.4' RT	IV-SHORT-213W LED	6'	30'	WSF	OCCUPANCY SENSOR, HOUSE SIDE SHIELD
BL2501	25	TF LINE	120+33.1	122.6' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2502	25	TF LINE	120+30.8	91.4' LT	VS-MED-41W LED	-	-	BOLLARD	-
BL2503	25	TF LINE	120+28.4	60.2' LT	VS-MED-41W LED	-	-	BOLLARD	-
LP2601	26	TS LINE	35+01.37	17.8' RT	VMQ-SHORT-315W LED	6'	30'	WSF	OCCUPANCY SENSOR
LP2602	26	TS LINE	32+41.15	30.5' RT	VMQ-SHORT-315W LED	6'	30'	WSF	OCCUPANCY SENSOR
LP2603	26	TS LINE	30+89.78	24.3' RT	VMQ-SHORT-315W LED	6'	30'	WSF	OCCUPANCY SENSOR
LP2701	27	TS LINE	35+01.37	17.8' RT	VMQ-SHORT-315W LED	6'	30'	WSF	OCCUPANCY SENSOR
LP2702	27	TS LINE	33+50.16	30.5' RT	VMQ-SHORT-315W LED	6'	30'	WSF	OCCUPANCY SENSOR
LP2703	27	TS LINE	30+89.78	24.3' RT	VMQ-SHORT-315W LED	6'	30'	WSF	OCCUPANCY SENSOR

LUMINAIRE SCHEDULE - WASHINGTON STATE DOT (WSDOT)									
LUMINAIRE NUMBER	CIRCUIT	LOCATION			TYPE-DIST-WATTAGE	MAST ARM	H1	POLE TYPE	COMMENTS
		ALIGNMENT	STATION	OFFSET					
LP3101	31	SR 525 LINE	2+11.16	28.30 LT	IV-SPILL CNTRL-213W LED	6'	35'	SEE C16.10	HOUSE SIDE SHIELD
LP3102	31	SR 525 LINE	3+17.17	27.50 LT	IV-SPILL CNTRL-107W LED	6'	35'	SEE C16.10	-
LP3103	31	SR 525 LINE	3+27.00	46.07 RT	IV-SPILL CNTRL-107W LED	6'	35'	SEE C16.10	-
LP3104	31	SR 525 LINE	2+32.63	46.00' RT	IV-SPILL CNTRL-107W LED	6'	35'	SEE C16.10	-
LP3201	32	E LINE	10+26.3	51.92' LT	IV-SPILL CNTRL-107W LED	6'	35'	SEE C16.12	-
LP3202	32	TF LINE	108+36.7	26.72' RT	IV-SPILL CNTRL-107W LED	6'	35'	SEE C16.12	-

Per RFI 325 - LP 3201 - Sta 10+30.82 Off 51.2 The station offset from signalization sheets has been adjusted 1' to avoid any conflict with the sidewalk/ADA ramp. Ensure that the signals mounted on the mast arm adjusted appropriately to be centered on each respective lane.  
LP3202 - Sta 108+30.37 Off 25.25 The station offset from signalization sheets has been adjusted by 1' to avoid any conflict with the Sound Transit roadway. Signal layout on mast arm to remain per contract drawings.

House Side Shield not needed for LP2305



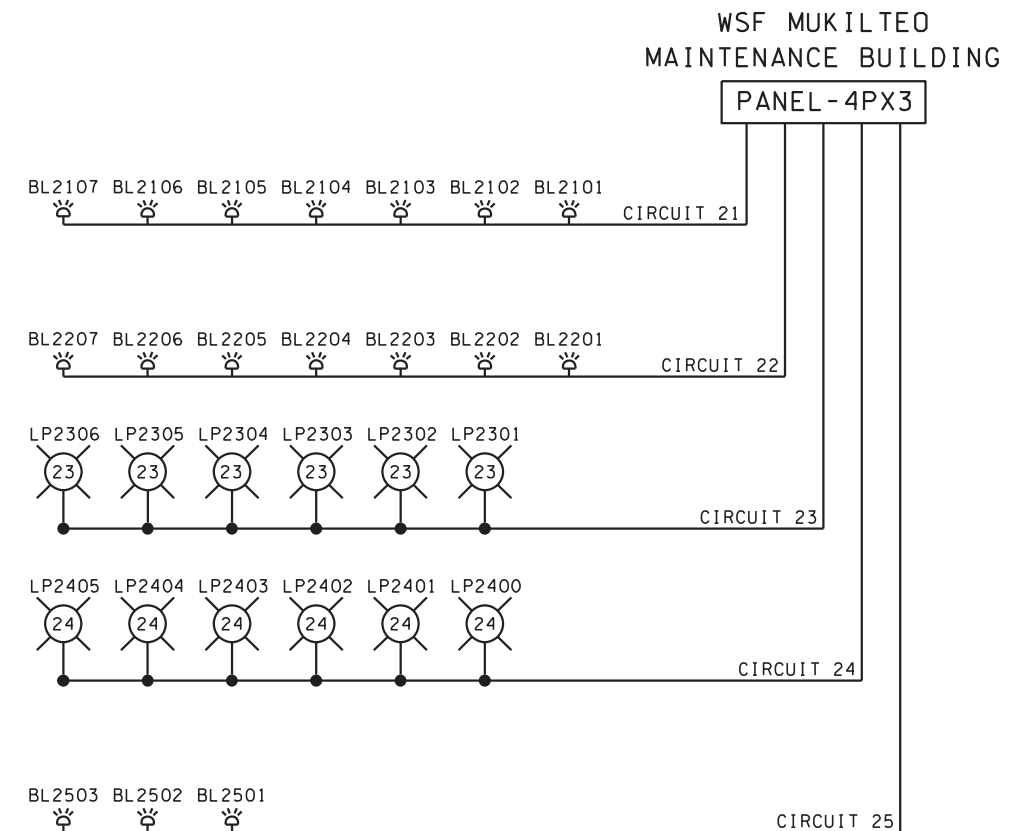
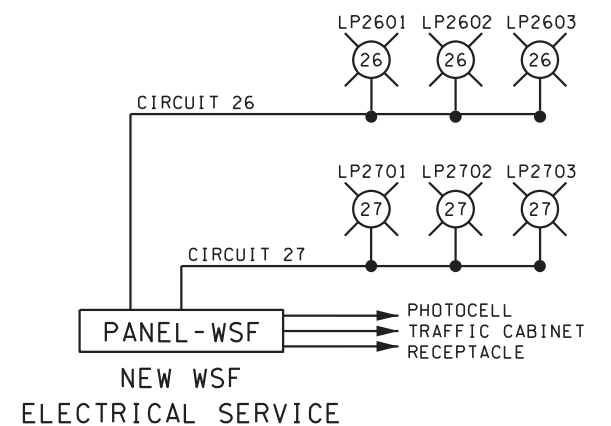
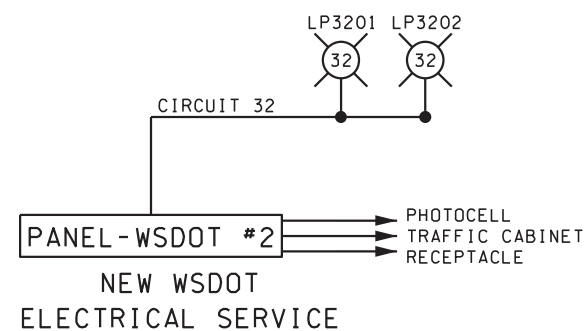
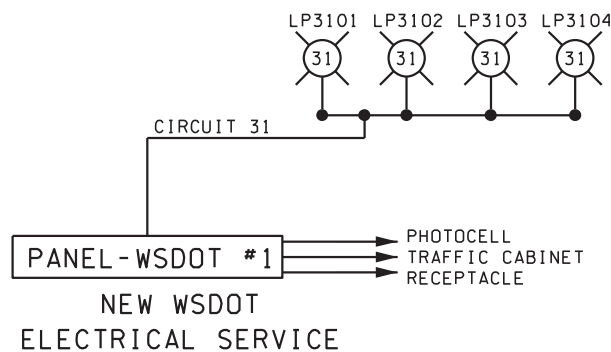


X X X X X X

10 SERIES: MUKILTEO  
20 SERIES: WSF  
30 SERIES: WSDOT


JB: JUNCTION BOX  
LP: LUMINAIRE POLE  
BL: BOLLARD LUMINAIRE

DEVICE ID KEY:

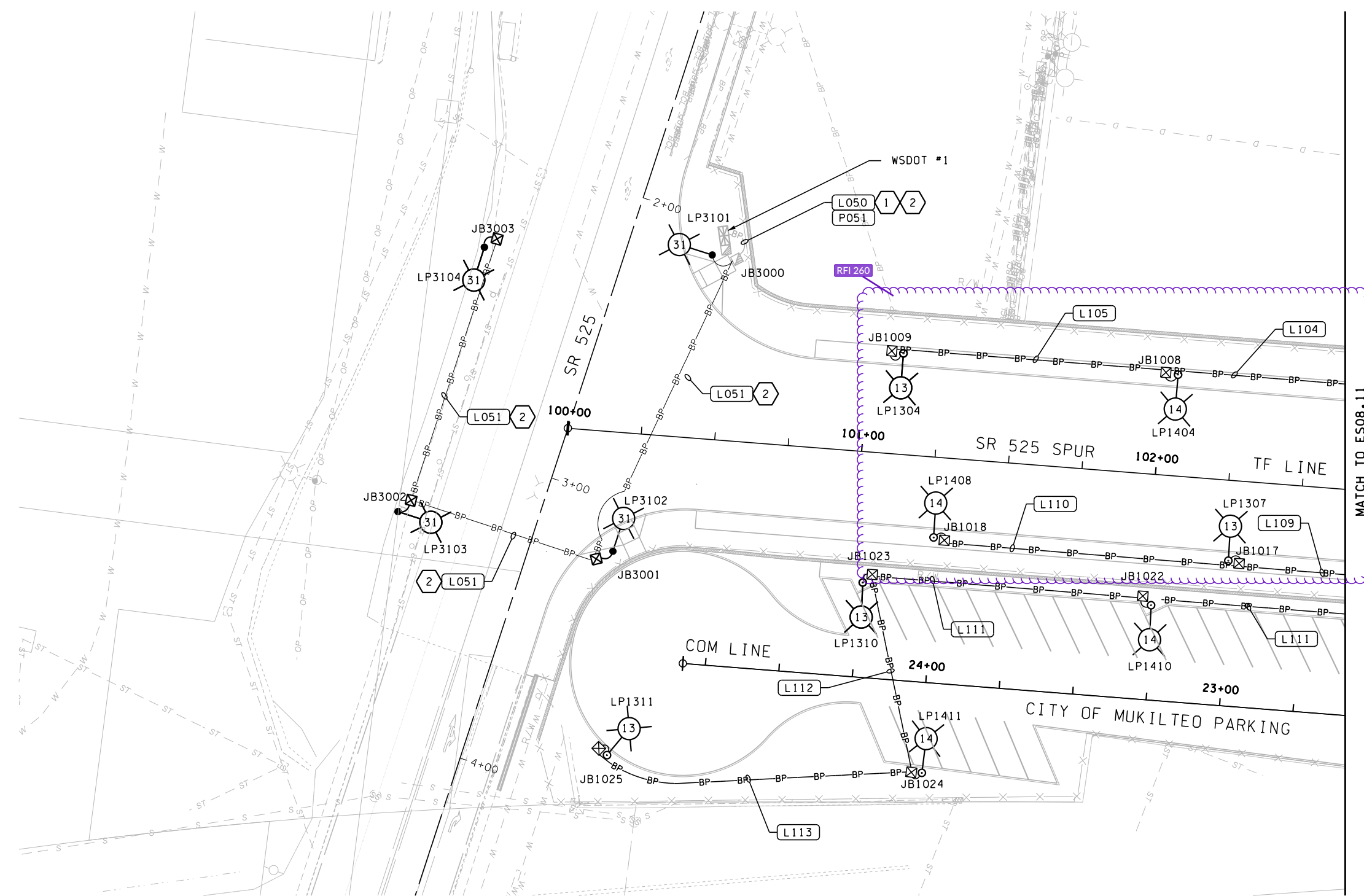


NOTES:

1. THE LIGHTING CIRCUIT NUMBER INDICATED IS NOT THE BRANCH CIRCUIT NUMBER IN THE RESPECTIVE PANEL.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es08_00.dlv					JACOBS		SR 525		ES08.00
PRINTED: 12:59:00 PM 12/15/2017	LAST PRINTED BY:						MUKILTEO FERRY TERMINAL (PHASE 2)		
SUBMITTAL DATE: 12/22/17	slaterj						FERRY TERMINAL CONSTRUCTION		
DESIGNED BY: J. SLATER	12/15/2017						SITE ILLUMINATION		
ENTERED BY: J. SLATER	12/15/2017						ONLINE DIAGRAM		SHEET 379 OF 1521 SHEETS
CHECKED BY: M. BAGINSKI	12/15/2017								
MAR PROJ ENGR: C. TORRES									
DIR TERM ENGR: N. MCINTOSH									
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY					





NOTES:

1. ALL CONDUCTORS FROM JUNCTION BOX TO LIGHT SHALL BE 2"10, #10G IN 1" CONDUIT UNLESS NOTED OTHERWISE.
2. SEE SERIES ES10 FOR CONDUIT AND CABLE SCHEDULES.
3. FOR LUMINAIRE SCHEDULE AND WIRE NOTE SCHEDULES SEE SHEET ES07.00.
4. SEE SERIES C16 FOR SIGNAL POLE INFORMATION.
5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO EXCAVATING OR TRENCHING FOR NEW CONDUIT ROUTES.

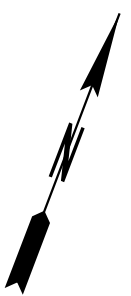
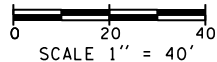
Per RFI 260 - Luminaire poles are placed outside of the BRF limits. Conduit runs should be considered diagrammatical. Routing conduit underneath the sidewalk where necessary to avoid BRFs is acceptable

CONSTRUCTION NOTES:

- 1 LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.
- 2 PROVIDE A SEPARATE SPARE 2" CONDUIT.



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es08_10.dwg				
PRINTED: 3:50:08 PM 1/16/2019	LAST PRINTED BY: slaterj			FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19				WA-2017-007-00
DESIGNED BY: J. SLATER	1/18/19			REGION NO. STATE
ENTERED BY: J. SLATER	1/18/19			10 WASH
CHECKED BY: M. BAGINSKI	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321



1/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ILLUMINATION PLAN

ES08.10

SHEET  
380  
OF  
1521  
SHEETS





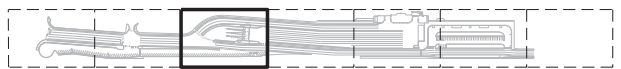
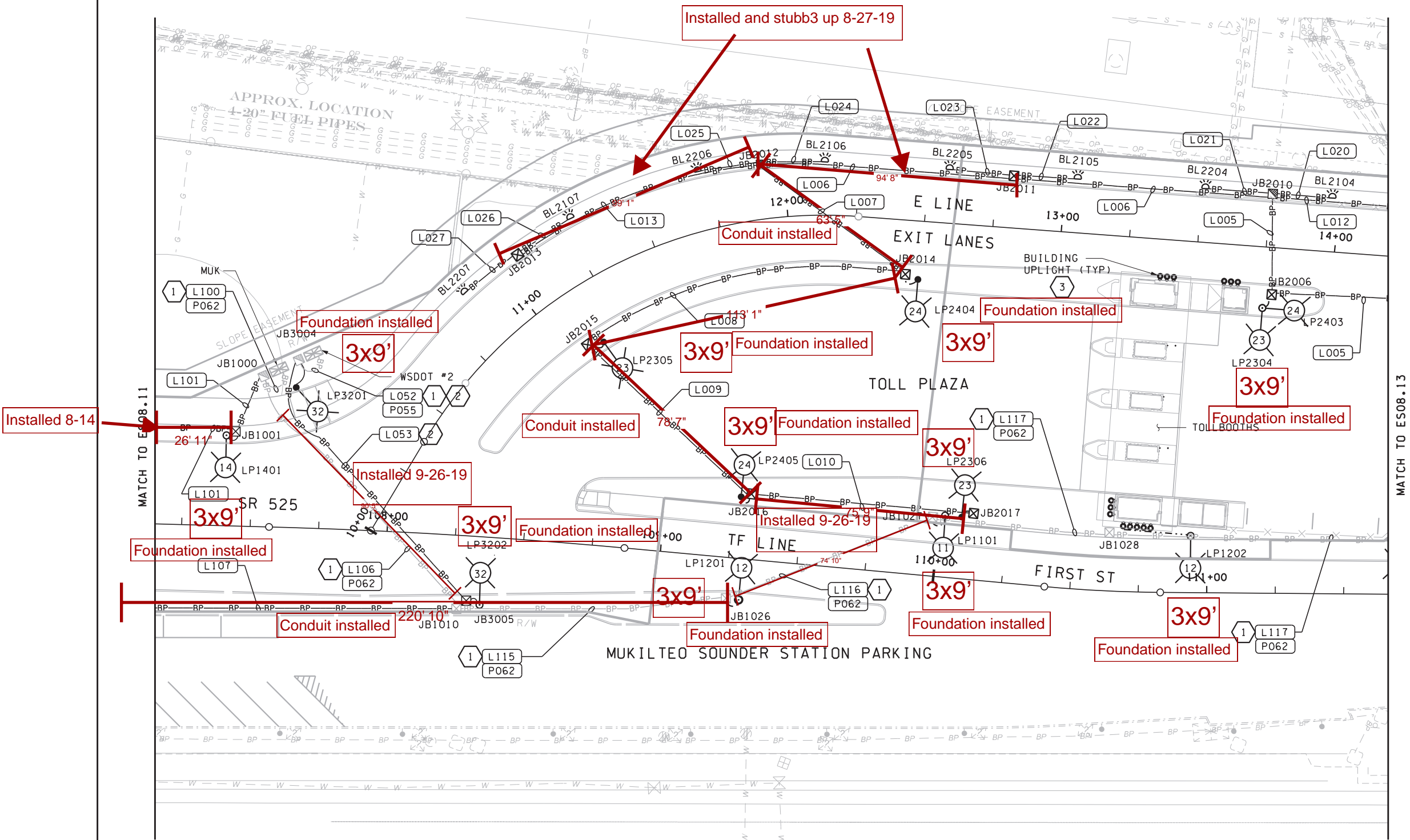


NOTES:

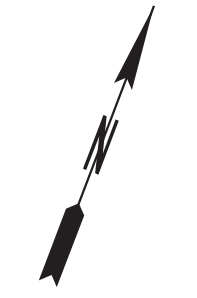
1. ALL CONDUCTORS FROM JUNCTION BOX TO LIGHT SHALL BE 2"10, #10G IN 1" CONDUIT UNLESS NOTED OTHERWISE.
2. FOR ILLUMINATION DEMOLITION SEE UTILITY DEMOLITION PLANS.
3. BOLLARD LIGHTS WILL BE LOCATED AT THE BACK EDGE OF SIDEWALK IN THE PLANTER AREAS, SEE SPECIFICATIONS FOR FOUNDATION INFORMATION.
4. FOR LUMINAIRE SCHEDULE AND WIRE NOTE SCHEDULE SEE SHEET ES07.00.
5. SEE SERIES ES02 FOR CONDUIT RUNS CONTAINING POWER CIRCUITS.
6. SEE SERIES ES10 FOR CONDUIT AND CABLE SCHEDULES.
7. CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO EXCAVATING OR TRENCHING FOR NEW CONDUIT ROUTES.

CONSTRUCTION NOTES:

- 1 LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.
- 2 PROVIDE A SEPARATE SPARE 2" CONDUIT.
- 3 CONTRACTOR TO FURNISH AND INSTALL IN-GRADE BUILDING UPLIGHTS PER SHEET EB08.51. COORDINATE LOCATION WITH OTHER UTILITIES



KEY PLAN



SCALE 1" = 40'

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ILLUMINATION PLAN

ES08.12

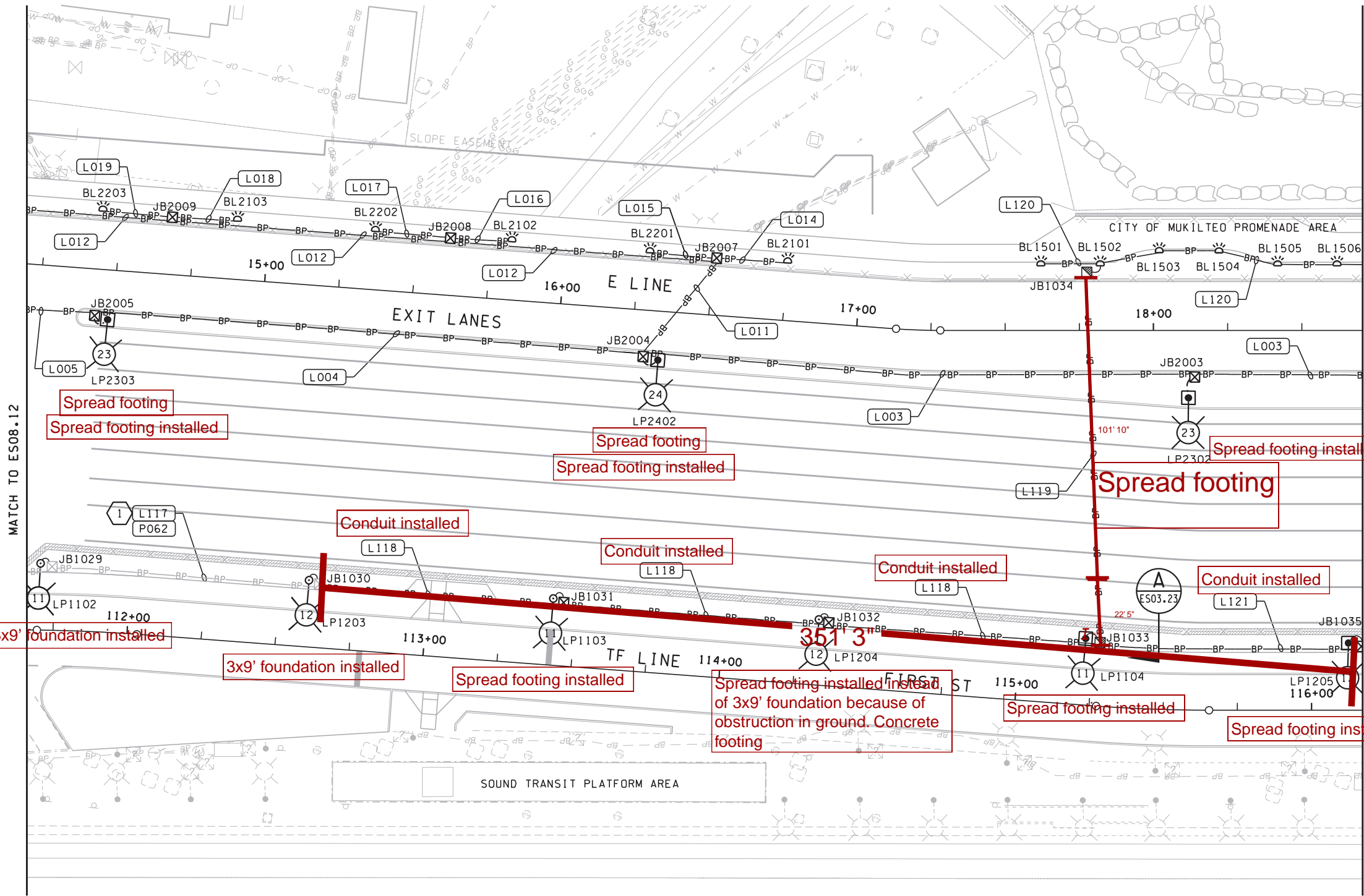
SHEET  
382  
OF  
1521  
SHEETS

FILE NAME: WS\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es08_12.dwg			
PRINTED: 12:59:27 PM 12/15/2017	LAST PRINTED BY: NespodzanyR		FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17			WA-2017-007-00
DESIGNED BY: J. SLATER	12/15/2017		REGION NO. STATE
ENTERED BY: J. SLATER	12/15/2017		10 WASH
CHECKED BY: M. BAGINSKI	12/15/2017		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00****
REVISION	DATE	BY	



2/22/2018





MATCH TO ES08.12

MATCH TO ES08.14

NOTES:

1. FOR ILLUMINATION DEMOLITION SEE UTILITY DEMOLITION PLANS.
2. ALL CONDUCTORS FROM JUNCTION BOX TO LIGHT SHALL BE 2"10, #10G IN 1" CONDUIT UNLESS NOTED OTHERWISE.
3. BOLLARD LIGHTS WILL BE LOCATED AT THE BACK EDGE OF SIDEWALK IN THE PLANTER AREAS, SEE SHEET C13.41 FOR FOUNDATION DETAILS.
4. FOR LUMINAIRE SCHEDULE AND WIRE NOTE SCHEDULES SEE SHEET ES07.00.
5. SEE SERIES ES02 FOR CONDUIT RUNS CONTAINING POWER CIRCUITS.
6. SEE SERIES ES10 FOR CONDUIT AND CABLE SCHEDULES.
7. CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO EXCAVATING OR TRENCHING FOR NEW CONDUIT ROUTES.

CONSTRUCTION NOTES

- 1 LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.

3x9' foundation installed

3x9' foundation installed

Spread footing installed

Spread footing installed instead of 3x9' foundation because of obstruction in ground. Concrete footing

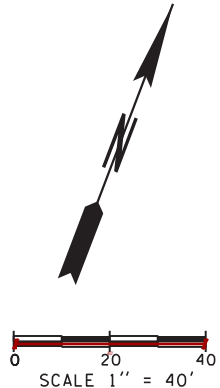
Spread footing installed

Spread footing installed

Spread footing

Spread footing installed

Installed 9-5-19



FILE NAME: WS\Mukilteo\14W121_FerryTermConst\ACADD\JACOBS\14w121es08_13.dwg			
PRINTED: 12:55:50 PM 12/15/2017	LAST PRINTED BY: Nspodzonyr		FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17			WA-2017-007-00
DESIGNED BY: J. SLATER	12/15/2017		REGION NO. STATE
ENTERED BY: J. SLATER	12/15/2017		10 WASH
CHECKED BY: M. BAGINSKI	12/15/2017		JOB NUMBER
MAR PROJ ENGR: C. TORRES			18W121
DIR TERM ENGR: N. MCINTOSH			CONTRACT NO.
ASST SECRETARY: A. SCARTON			00****
REVISION	DATE	BY	



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ILLUMINATION PLAN

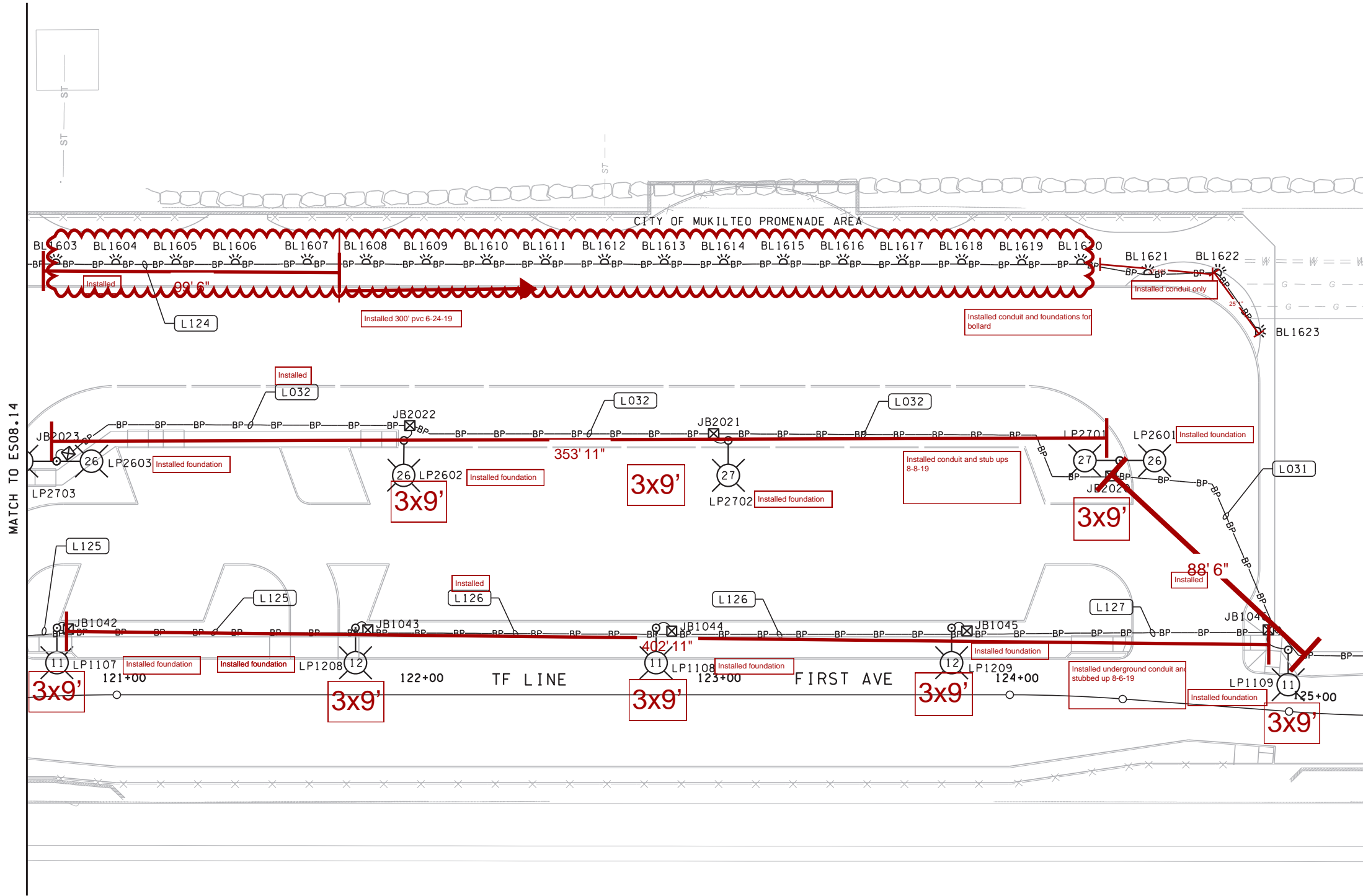
ES08.13  
SHEET  
383  
OF  
1521  
SHEETS

Installed 9-5-19









MATCH TO ES08.14

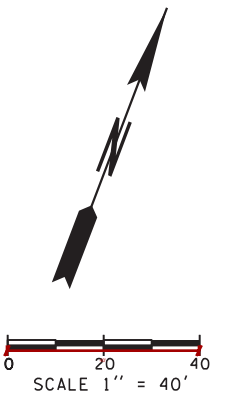
MATCH TO ES08.16


NOTES:

1. ALL CONDUCTOR TO LIGHT FROM JUNCTION BOX SHALL BE 2#10, #10G IN 1" CONDUIT UNLESS NOTED OTHERWISE.
2. BOLLARDS LIGHTS WILL BE LOCATED TO THE EDGE OF SIDEWALK IN THE PLANTER AREAS, SEE SPECIFICATIONS FOR FOUNDATION INFORMATION.
3. SEE SERIES ES10 FOR CONDUIT AND CABLE SCHEDULES.
4. FOR LUMINAIRE SCHEDULES AND WIRE NOTE SCHEDULE SEE SHEET ES07.00.
5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO EXCAVATING OR TRENCHING FOR NEW CONDUIT ROUTES.
6. SEE SHEET C13.41 FOR BOLLARD FOUNDATION DETAILS.



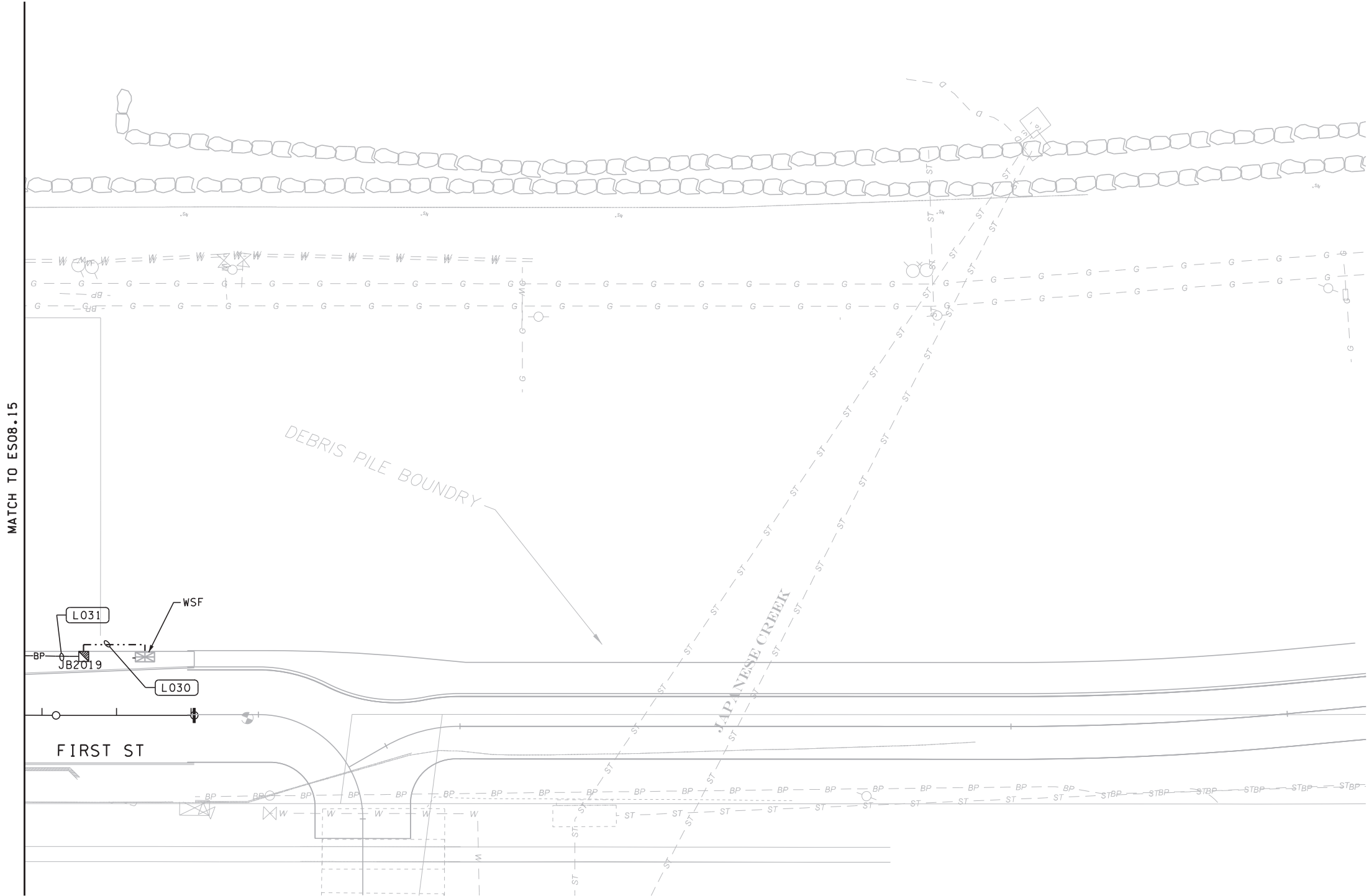
KEY PLAN



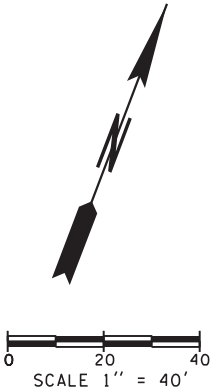
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es08_15.dwg												 Washington State Department of Transportation WASHINGTON STATE FERRIES		SR 525		ES08.15	
PRINTED: 12:44:43 PM 12/15/2017				LAST PRINTED BY:				FED.AID PROJ.NO.						SHEET			
SUBMITTAL DATE: 12/22/17				NespodzornyR				WA-2017-007-00						385			
DESIGNED BY: J. SLATER				12/15/2017				REGION NO. STATE						OF			
ENTERED BY: J. SLATER				12/15/2017				10 WASH						1521			
CHECKED BY: M. BAGINSKI				12/15/2017				JOB NUMBER 18W121						SHEETS			
MAR PROJ ENGR: C. TORRES								CONTRACT NO. 00****									
DIR TERM ENGR: N. MCINTOSH																	
ASST SECRETARY: A. SCARTON						REVISION		DATE BY									



- NOTES:**
1. FOR PROMENADE LIGHTING DETAILS SEE SHEET EAXX.XX.
  2. BOLLARDS LIGHTS WILL BE LOCATED AT THE EDGE OF SIDEWALK IN THE PLANTER AREAS, SEE SPECIFICATIONS FOR FOUNDATION INFORMATION.
  3. SEE SERIES ES10 FOR CONDUIT AND CABLE SCHEDULES.
  4. SEE DRAWING ES02.16 FOR UTILITY CONNECTION.
  5. CONTRACTOR SHALL LOCATE EXISTING UTILITIES PRIOR TO EXCAVATING OR TRENCHING FOR NEW CONDUIT ROUTES.



KEY PLAN



FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es08_16.dlv					
PRINTED: 12:42:06 PM 12/15/2017	LAST PRINTED BY: NespodzanyR				FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 12/22/17					REGION NO. STATE 10 WASH
DESIGNED BY: J. SLATER	12/15/2017				JOB NUMBER 18W121
ENTERED BY: J. SLATER	12/15/2017				CONTRACT NO. 00*****
CHECKED BY: M. BAGINSKI	12/15/2017				
MAR PROJ ENGR: C. TORRES					
DIR TERM ENGR: N. MCINTOSH					
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	



2/22/2018



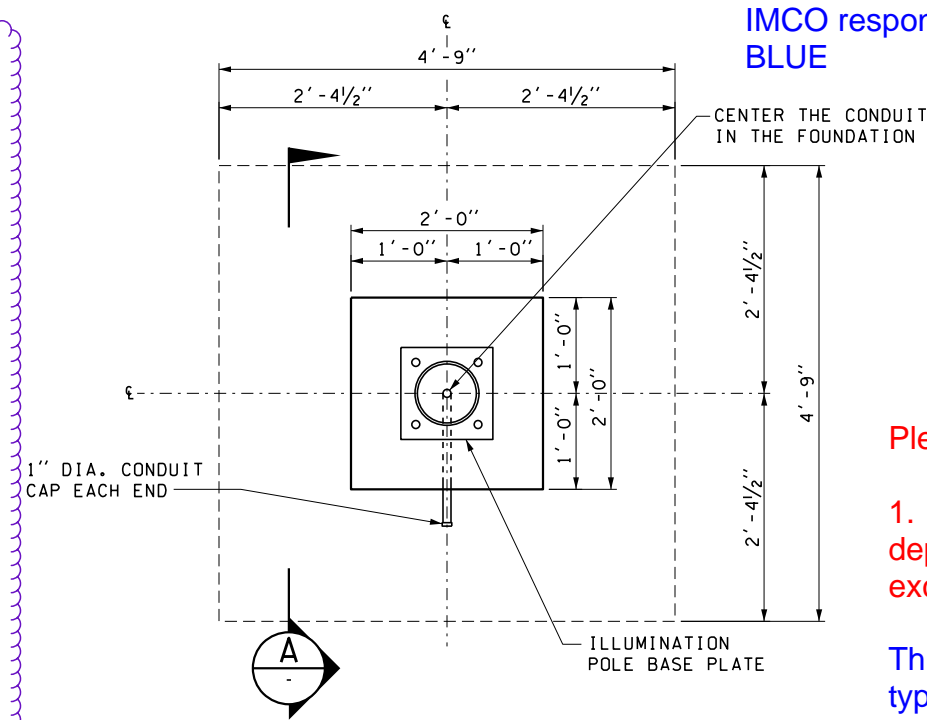
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ILLUMINATION PLAN

ES08.16  
SHEET  
386  
OF  
1521  
SHEETS

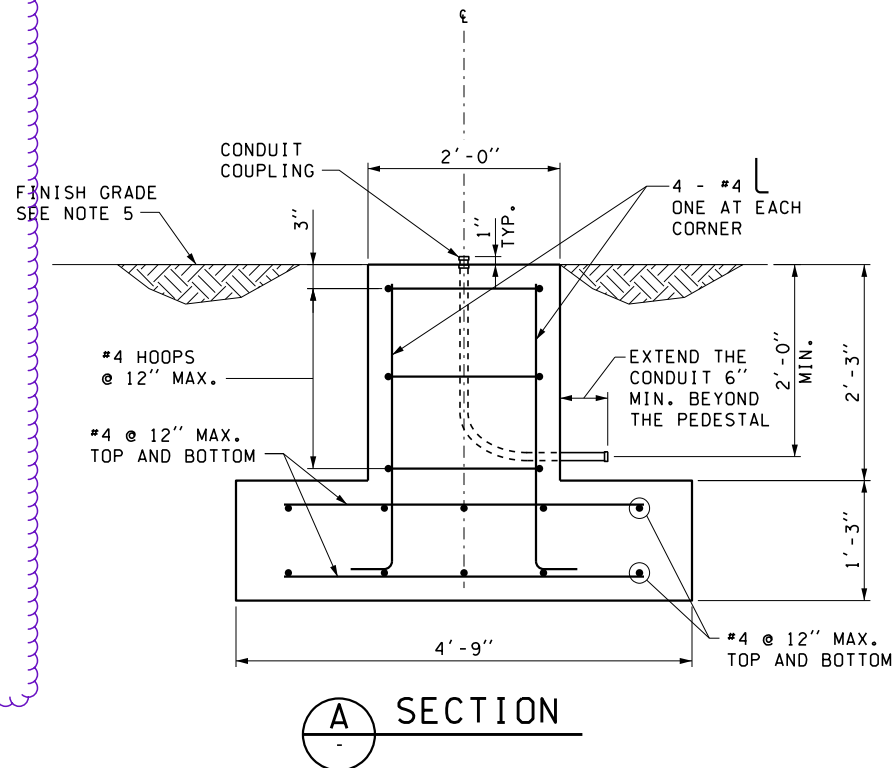


## ILLUMINATION POLE FOUNDATION SCHEDULE

POLE ID	FOUNDATION TYPE	FOOTING DESIGN	EMBEDMENT DEPTH
LP1101	SHAFT	NOTE 1	NOTE 2
LP1102	SHAFT	NOTE 1	NOTE 2
LP1103	SHAFT	NOTE 1	NOTE 2
LP1104	FOOTING	SEE DETAILS	N/A
LP1105	FOOTING	SEE DETAILS	N/A
LP1106	FOOTING	SEE DETAILS	N/A
LP1107	SHAFT	NOTE 1	NOTE 2
LP1108	SHAFT	NOTE 1	NOTE 2
LP1109	SHAFT	NOTE 1	NOTE 2
LP1201	SHAFT	NOTE 1	NOTE 2
LP1202	SHAFT	NOTE 1	NOTE 2
LP1203	SHAFT	NOTE 1	NOTE 2
LP1204	SHAFT	NOTE 1	NOTE 2
LP1205	FOOTING	SEE DETAILS	N/A
LP1206	FOOTING	SEE DETAILS	N/A
LP1207	SHAFT	NOTE 1	NOTE 2
LP1208	SHAFT	NOTE 1	NOTE 2
LP1209	SHAFT	NOTE 1	NOTE 2
LP1301	SHAFT	NOTE 1	9'-0" (MIN.)
LP1302	SHAFT	NOTE 1	NOTE 2
LP1303	SHAFT	NOTE 1	NOTE 2
LP1304	SHAFT	NOTE 1	NOTE 2
LP1305	SHAFT	NOTE 1	NOTE 2
LP1306	SHAFT	NOTE 1	NOTE 2
LP1307	SHAFT	NOTE 1	14'-0" (MIN.)
LP1308	SHAFT	NOTE 1	NOTE 2
LP1309	SHAFT	NOTE 1	13'-0" (MIN.)
LP1310	SHAFT	NOTE 1	13'-0" (MIN.)
LP1311	SHAFT	NOTE 1	15'-0" (MIN.)
LP1401	SHAFT	NOTE 1	9'-0" (MIN.)
LP1402	SHAFT	NOTE 1	NOTE 2
LP1403	SHAFT	NOTE 1	NOTE 2
LP1404	SHAFT	NOTE 1	NOTE 2
LP1405	SHAFT	NOTE 1	NOTE 2
LP1406	SHAFT	NOTE 1	NOTE 2
LP1407	SHAFT	NOTE 1	NOTE 2
LP1408	SHAFT	NOTE 1	NOTE 2
LP1409	SHAFT	NOTE 1	NOTE 2
LP1410	SHAFT	NOTE 1	NOTE 2
LP1411	SHAFT	NOTE 1	15'-0" (MIN.)
LP2301/LP2400	FOOTING	SEE DETAILS	N/A
LP2302	FOOTING	SEE DETAILS	N/A
LP2303	FOOTING	SEE DETAILS	N/A
LP2304/LP2403	SHAFT	NOTE 1	NOTE 2
LP2305	SHAFT	NOTE 1	NOTE 2
LP2306	SHAFT	NOTE 1	NOTE 2
LP2401	FOOTING	SEE DETAILS	N/A
LP2402	FOOTING	SEE DETAILS	N/A
LP2404	SHAFT	NOTE 1	NOTE 2
LP2405	SHAFT	NOTE 1	NOTE 2
LP2601/LP2701	SHAFT	NOTE 1	NOTE 2
LP2602	SHAFT	NOTE 1	NOTE 2
LP2603/LP2703	SHAFT	NOTE 1	NOTE 2
LP2702	SHAFT	NOTE 1	NOTE 2
LP3101	SHAFT	NOTE 1	NOTE 2
LP3102	SHAFT	NOTE 1	NOTE 2
LP3103	SHAFT	NOTE 1	NOTE 2
LP3104	SHAFT	NOTE 1	NOTE 2
LP3201	SHAFT	NOTE 1	NOTE 2
LP3202	SHAFT	NOTE 1	NOTE 2



LIGHT POLE FOUNDATION - PLAN



## NOTES:

- SEE WSDOT STD PLAN J-27.10-00 FOR SHAFT FOUNDATION DETAILS.
- SEE WSDOT STD PLAN J-27.10-00 ALTERNATIVE #1 DRILLED SHAFT TYPE AND LENGTH.
- CLEAR COVER DISTANCE FROM FACE OF CONCRETE TO FACE OF REINFORCING STEEL SHALL BE 3".
- POLES SHALL BE GROUNDED PER STANDARD PLAN J-28.30-03.
- ALL LOOSE SOIL SHALL BE REMOVED DURING EXCAVATION FOR FOUNDATION CONSTRUCTION. FOUNDATION SHALL BE PLACED ON COMPACTED NATIVE SOIL OR COMPACTED STRUCTURAL FILL.

Please Clarify the Following for LP1204 Proposed Spread Footing:

1. What is the proposed method to account for the overall variance in depth of the spread footing shown in Section A and the 5'-6" reached excavation described in RFI 383 via RFI 367?

This variance will be backfilled with native soil and compacted per typical spread footing requirements so as to provide a solid foundation for the spread footing.

1a. - If an increased footing is proposed please provide a reinforcing detail for increased concrete shape

The proposed foundation will match what is currently included in the contract – section A on sheet ES09.00.

1b. - If it is proposed to replace the shaft foundation with Section A per this sheet, please provide proposed compaction procedure and backfill material to be used to account for excavation below footing limits.

The compaction procedure will be: using a plate compactor, or hoe-pack. Effectively compacting the native soil to provide a subgrade that is firm and unyielding.

2. As RFI 367 raised concerns regarding localized undermining of Wall 4, please provide what measures will be taken to ensure undermining does not occur during construction of increased foundation footprint from proposed spread footing alternative.

The initial concern of undermining wall-4, was misspoken. The undermining concern was if the obstruction needed to be removed and the limits of it were unknown, the process to remove could potentially lead to undermining. The spread footing eliminates this concern.

FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121es09\_00.dwg

PRINTED: \$\$\$TIME\$\$\$	\$\$\$DATE\$\$\$	LAST PRINTED BY:		FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19		DonielJL		WA-2017-007-00
DESIGNED BY: G. CALLAHAN	1/18/19			REGION NO. STATE
ENTERED BY: D. PERRY	1/18/19			10 WASH
CHECKED BY: C. CAYWOOD	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321



01/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

ILLUMINATION POLE  
FOUNDATION SCHEDULE AND DETAILS

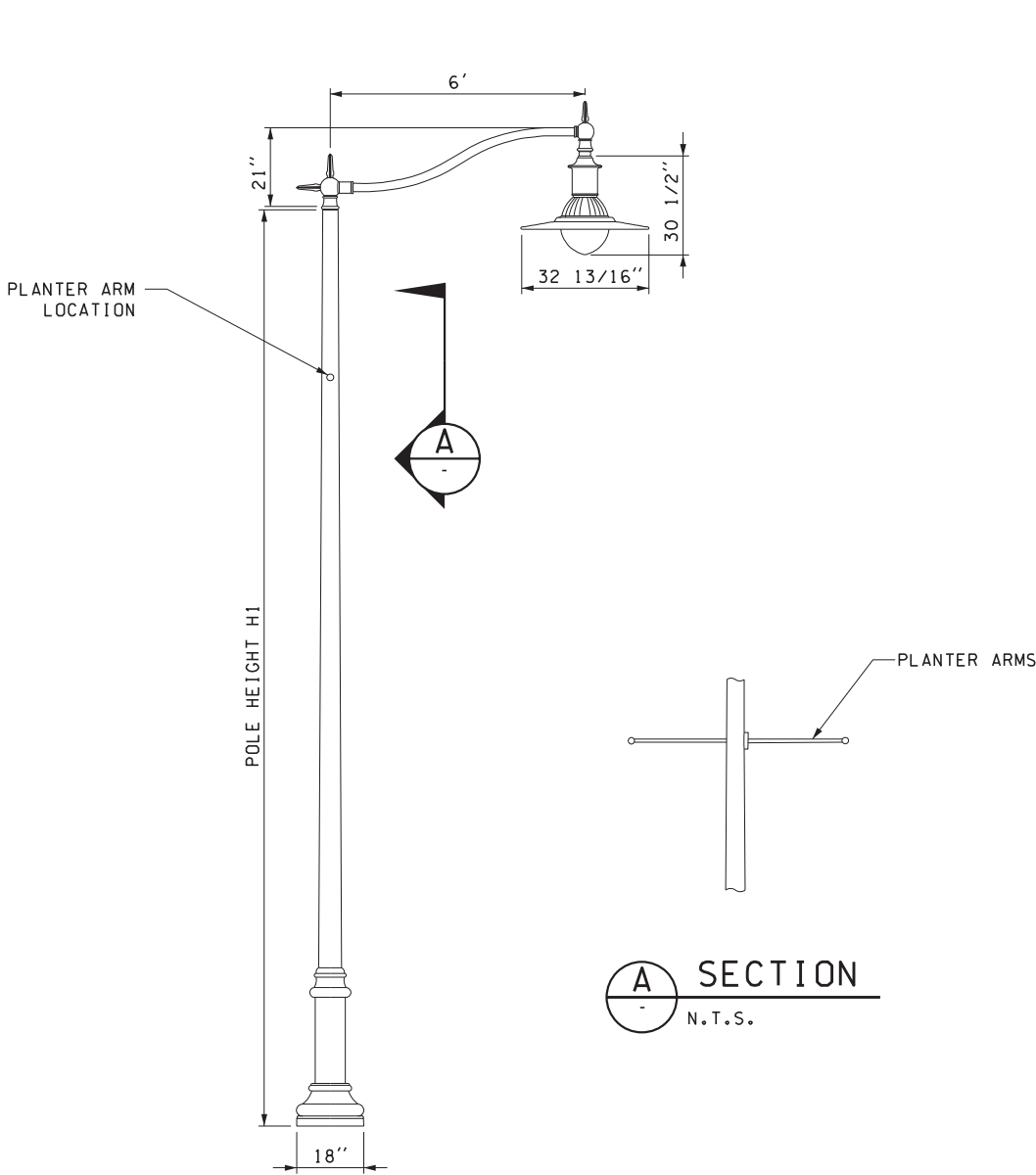
ES09.00

SHEET  
387  
OF  
1521  
SHEETS

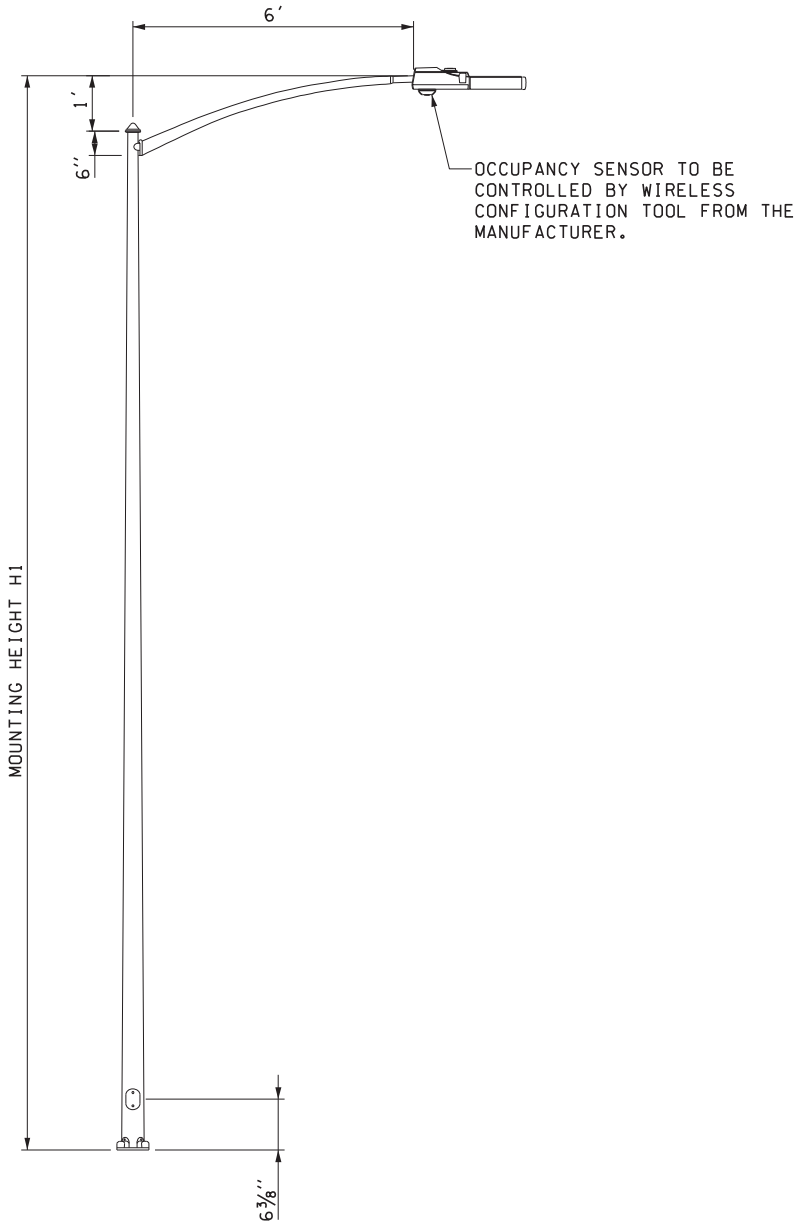


NOTES:

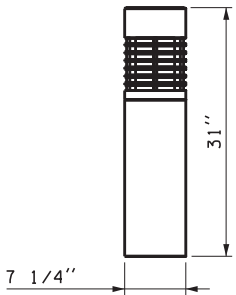
1. ANCHOR BASE DETAIL AND BOLT LOCATIONS PER POLE MANUFACTURER SPECIFICATIONS.



MUKILTEO  
N.T.S.



WSF  
N.T.S.



BOLLARD  
N.T.S.

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es09_01.dwg					
PRINTED: 12:37:20 PM 12/15/2017	LAST PRINTED BY: NespodzanyR				FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17					WA-2017-007-00
DESIGNED BY: M. BAGINSKI	12/15/2017				REGION NO. STATE
ENTERED BY: J. SLATER	12/15/2017				10 WASH
CHECKED BY: S. EICHINGER	12/15/2017				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****



2/22/2018

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
ILLUMINATION POLE  
TYPES AND DETAILS

ES09.01  
SHEET  
388  
OF  
1521  
SHEETS



- NOTES:
1. ALL CONDUITS ARE SCHEDULE 40 PVC UNLESS OTHERWISE NOTED.
  2. WHERE CABLE SIZE IS LISTED AS CO, CONTRACTOR TO INSTALL CONDUIT ONLY WITH PULL WIRE FOR FUTURE CONDUCTOR INSTALLATIONS.
  3. SEE SHEET EB02.00 FOR CONTINUATION OF P005 AND LOCATION OF JB-V2.

RACEWAY NO.	CONDUIT SIZE	CABLE SIZE	FROM	TO	VIA								NOTES
P001	(2) 4"	PROVIDED AND INSTALLED BY SNOPUD	SNOPUD JB A-39756	SNOPUD TRANSFORMER VAULT	V-S1								SNOPUD PRIMARY SERVICE (4" SPARE)
P002	4"	3#500, 1#500G	4SBX1 MAIN DIST PANEL	4DX1 TOLL BOOTH DISCONNECT	V-G1	JB-S4	JB-S3	JB-S2	JB-S1				TOLL BOOTH FEEDER
P003		NOT IN USE											
P004	(2) 4"	2 SETS OF 4#500, 1#1/0G	4SBX1	V-G2	V-G1								TERMINAL BUILDING MAIN FEED
P005	4"	CO	4SB1	JB-V2 (NOTE 3)	V-G1	V-G2							SHORE POWER #2
P006	3 1/2"	4#350, 1#2G	4D1 (OPTION B)	4D2 (OPTION B)	V-G1	V-G2							FUTURE PHOTOVOLTAIC SYSTEM
P007	1"	2#12, 1#12G	2PX11 MAINTENANCE BUILDING	HOT BOX 1	JB2018								SEE WATER & SANITARY SEWER PLAN
P008	1"	2#12, 1#12G	2PX11 MAINTENANCE BUILDING	HOT BOX 2	JB2018								SEE WATER & SANITARY SEWER PLAN
P010	2"	8#4, 1#8G	2PX1 TOLL BOOTH DIST PANEL	JB-TB1									2PX2 AND 2PX3 FEEDERS
P011	2"	4#4, 1#8G	JB-TB1	JB-TB2									2PX3 FEEDER
P012	2"	8#4, 1#8G	2PX1 TOLL BOOTH DIST PANEL	JB-TB3	JB-TB1	JB-TB2							2PX4 AND 2PX5 FEEDERS
P013	2"	4#4, 1#8G	JB-TB3	JB-TB4									2PX5 FEEDER
P014	1"	2#12, 1#12G	2PX1 TOLL BOOTH DIST PANEL	IRRIGATION CONTROL 1	JB-TB1	JB-TB2	JB-TB3	JB-TB4					IRRIGATION CONTROL POWER
P015	2"	2#6, 1#6G, 2#10, 8#12	2PX1 TOLL BOOTH DIST PANEL	JB-TB4	JB-TB1	JB-TB2	JB-TB3						2PX1 CIRCUITS FOR RM 157
P016	2"	2#12, 1#12G	TP-INV										EMERGENCY LIGHTING RM 157
P030	4"	3#350, 1#4G	4SB1 WSF MAIN SWITCHBOARD	JB-SP1	V-G1								SHORE POWER #1
P040	4"	PROVIDED AND INSTALLED BY SNOPUD	SNOPUD JB A-39756	UTILITY XFMR T-2	V-S1								TRANSIT CENTER SERVICE
P041	2 1/2"	4#3/0, 1#6G	UTILITY XFMR T-2	WSF PANEL 'WSF'									TRANSIT CENTER SERVICE
P050	2 1/2"	4#3/0, 1#6G	EXISTING UTILITY XFMR	WSDOT PANEL 'WSDOT #1'	JB-U1								WSDOT SERVICE
P051	-	2#10, 1#10G	WSDOT PANEL 'WSDOT #1'	JB3000									POWER AND LIGHTING CONDUCTORS IN SAME CONDUIT, SEE ILLUMINATION PLAN
P052	2"	2#10, 1#10G	JB3000	WSDOT UPS									TRAFFIC CONTROLLER POWER
P053	4"	PROVIDED AND INSTALLED BY SNOPUD	SNOPUD POLE F2K-11X	UTILITY XFMR T-1									UTILITY XFMR FEED
P054	2 1/2"	4#3/0, 1#6G	UTILITY XFMR T-1	WSDOT PANEL 'WSDOT #2'									WSDOT SERVICE
P055	-	2#10, 1#10G	WSDOT PANEL 'WSDOT #2'	JB3004									POWER AND LIGHTING CONDUCTORS IN SAME CONDUIT, SEE ILLUMINATION PLAN
P056	2"	2#10, 1#10G	JB3004	WSDOT UPS									TRAFFIC CONTROLLER POWER
P061	2 1/2"	4#3/0, 1#6G	XFMR T-1	CITY OF MUKILTEO PANEL 'MUK'	JB-U1								CITY OF MUKILTEO POWER FEED
P062	-	2#10, 1#10G	CITY OF MUKILTEO PANEL 'MUK'	IRRIGATION CONTROLLER 2	JB1000	JB1010	JB1026	JB1027	JB1028	JB1029	JB1030		POWER AND LIGHTING CONDUCTORS IN SAME CONDUIT, SEE ILLUMINATION PLAN
P070	(2) 2"	2#2, 2#1/0, 1#1/0G	2PX1	JB-S2	JB-S1								SEE COMMUNICATION PLAN (2" SPARE)
P071	(2) 2"	2#2, 1#2G	JB-S2	IDF-11 COMM CAB									SEE COMMUNICATION PLAN (2" SPARE)
P072	(2) 2"	2#1/0, 1#1/0G	JB-S2	IDF-12 COMM CAB	JB-S3								SEE COMMUNICATION PLAN (2" SPARE)
P073	(2) 2"	2#2, 1#2G	2PX11	IDF-13 COMM CAB	JB-S4	V-G1							
S001	4"	CO	V-G1	4DX1 TOLL BOOTH DISCONNECT	JB-S4	JB-S3	JB-S2	JB-S1					
S002	4"	CO	V-G1	V-G2									

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\JACOBS\14w121es10\_00.dwg

PRINTED: 4:14:56 PM 1/16/2019

SUBMITTAL DATE: 08/23/18

DESIGNED BY: M. BAGINSKI

ENTERED BY: J. SLATER

CHECKED BY: C. YUN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY: slater.j

1/16/2019

1/16/2019

1/16/2019

RFI 615

11/24/20 JS

1/18/19

CONFORMED PLANS

REVISION

FED.AID PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER 18W121

CONTRACT NO. 00\*\*\*\*\*

1/18/19

JACOBS



Washington State Department of Transportation WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)

FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL CONDUIT AND CABLE SCHEDULE

ES10.00

SHEET

OF

SHEETS



NOTES:

1. ALL CONDUIT ARE SCHEDULE 40 PVC AND NOT ENCASED IN CONCRETE UNLESS OTHERWISE NOTED.
2. THE CIRCUIT NUMBERS INDICATED IN THE NOTES COLUMN IS NOT THE BRANCH CIRCUIT NUMBER IN THE RESPECTIVE PANEL.

CONDUIT NO.	CONDUIT SIZE	CABLE SIZE	FROM	TO	VIA								NOTES
L001	2"	8*10, 1#10G	4PX3	JB2001	V-G1								WSF CKTS 21, 22, 23, 24 - CONCRETE ENCASED
L002	2"	8*10, 1#10G	JB2001	JB2002									WSF CKTS 21, 22, 23, 24 - SCH 80 PVC
L003	2"	8*10, 1#10G	JB2002	JB2004	JB2003								WSF CKTS 21, 22, 23, 24
L004	2"	4*10, 1#10G	JB2004	JB2005									WSF CKTS 23, 24
L005	2"	4*10, 1#10G	JB2005	JB2010	JB2006								WSF CKTS 23, 24 - SCH 80 PVC
L006	2"	8*10, 1#10G	JB2010	JB2012	JB2011								WSF CKTS 21, 22, 23, 24
L007	2"	4*10, 1#10G	JB2012	JB2014									WSF CKTS 23, 24 - SCH 80 PVC
L008	2"	4*10, 1#10G	JB2014	JB2015									WSF CKTS 23, 24
L009	2"	4*10, 1#10G	JB2015	JB2016									WSF CKTS 23, 24 - SCH 80 PVC
L010	2"	2*10, 1#10G	JB2016	JB2017									WSF CKTS 23
L011	2"	4*10, 1#10G	JB2004	JB2007									WSF CKTS 21, 22 - SCH 80 PVC
L012	2"	4*10, 1#10G	JB2007	JB2010	JB2008	JB2009							WSF CKTS 21, 22
L013	2"	4*10, 1#10G	JB2012	JB2013									WSF CKTS 21, 22
L014	2"	2*10, 1#10G	JB2007	BL2101									WSF CKT 21
L015	2"	2*10, 1#10G	JB2007	BL2201									WSF CKT 22
L016	2"	2*10, 1#10G	JB2008	BL2102									WSF CKT 21
L017	2"	2*10, 1#10G	JB2008	BL2202									WSF CKT 22
L018	2"	2*10, 1#10G	JB2009	BL2103									WSF CKT 21
L019	2"	2*10, 1#10G	JB2009	BL2203									WSF CKT 22
L020	2"	2*10, 1#10G	JB2010	BL2104									WSF CKT 21
L021	2"	2*10, 1#10G	JB2010	BL2204									WSF CKT 22
L022	2"	2*10, 1#10G	JB2011	BL2105									WSF CKT 21
L023	2"	2*10, 1#10G	JB2011	BL2205									WSF CKT 22
L024	2"	2*10, 1#10G	JB2012	BL2106									WSF CKT 21
L025	2"	2*10, 1#10G	JB2012	BL2206									WSF CKT 22
L026	2"	2*10, 1#10G	JB2013	BL2107									WSF CKT 21
L027	2"	2*10, 1#10G	JB2013	BL2207									WSF CKT 22
L028	2"	2*10, 1#10G	PANEL 4PX3	JB2018									WSF CKT 25
L029	2"	2*10, 1#10G	JB2018	BL2503	BL2501	BL2502							WSF CKT 25
L030	2"	4*10, 1#10G	WSF PANEL 'WSF'	JB2019									WSF CKTS 26, 27
L031	2"	4*10, 1#10G	JB2019	JB2020									WSF CKTS 26, 27 - SCH 80 PVC
L032	2"	4*10, 1#10G	JB2020	JB2023	JB2021	JB2022							WSF CKTS 26, 27

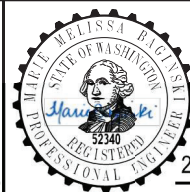


NOTES:

1. ALL CONDUIT ARE SCHEDULE 40 PVC AND NOT ENCASED IN CONCRETE UNLESS OTHERWISE NOTED.
2. THE CIRCUIT NUMBERS INDICATED IN THE NOTES COLUMN IS NOT THE BRANCH CIRCUIT NUMBER IN THE RESPECTIVE PANEL.

[illegible]**JACOBS®**

**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES



2/22/2018

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es10-02.dwg					
PRINTED: 12:27:55 PM 12/15/2017	LAST PRINTED BY:				FED.AID PROJ.NO.
SUBMITTAL DATE: 12/22/17	NespodzanyR				WA-2017-007-00
DESIGNED BY: M. BAGINSKI	12/15/2017				REGION NO. STATE
ENTERED BY: J. SLATER	12/15/2017				10 WASH
CHECKED BY: C. YUN	12/15/2017				JOB NUMBER 18W121
MAR PROJ ENGR: C. TORRES					CONTRACT NO. 00****
DIR TERM ENGR: N. MCINTOSH					
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	

ES10.02

SHEET

91

F

SHEETS

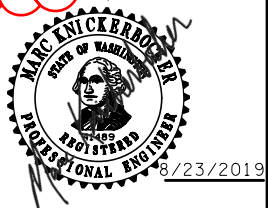


RACEWAY NO.	COND.	COND. SIZE	CABLE SIZE	FROM	TO	VIA								NOTES
N400	A	(1) 2"	NA	V-C2	JB-N6									FOR FUTURE USE
	B	(1) 2"	NA	V-C2	JB-N6									FOR FUTURE USE
N401A	A	(1) 4"	(2) 24 (3) 12 SMFO	JB-N6	V-C6									
N401B	B	(1) 4"	SPARE	JB-N6	V-C6									
N402	A	(1) 4"	24 SMFO	MAINTENANCE RM	MAIN TERM. BLDG									
	B	(1) 4"	SPARE	MAINTENANCE RM	MAIN TERM. BLDG									
	C	(1) 4"	SPARE	MAINTENANCE RM	MAIN TERM. BLDG									
	D	(1) 4"	SPARE	MAINTENANCE RM	MAIN TERM. BLDG									
N403	A	(1) 2"	NA	POE VAULT 20	JB-N6									FOR FUTURE FRONTIER USE
	B	(1) 2"	NA	POE VAULT 20	JB-N6									FOR FUTURE FRONTIER USE
	C	(1) 4"	NA	POE VAULT 20	JB-N6									FOR FUTURE FRONTIER USE
	D	(1) 4"	NA	POE VAULT 20	JB-N6									FOR FUTURE FRONTIER USE
N404	A	(1) 4"	24 SMFO / (2) 14AWG SPEARKER WIRE	V-C6	IDF-13									
	B	(1) 4"	SPARE	V-C6	IDF-13									
N405	A	(1) 4"	(2) 24 (3) 12 SMFO	V-C6	V-C5									
	B	(1) 4"	SPARE	V-C6	V-C5									
N406	A	(1) 2"	(2) 14AWG SPEAKER WIRE	V-C6	JB-P14									
	B	(1) 2"	SPARE	V-C6	JB-P14									
N407	A	(1) 4"	24 SMFO / (2) 14AWG SPEAKER WIRE	V-C5	IDF-12									
	B	(1) 4"	SPARE	V-C5	IDF-12									
N408	A	(1) 4"	(2) 24 (3) 12 SMFO	V-C5	V-C4									
	B	(1) 4"	SPARE	V-C5	V-C4									
N409	A	(1) 2"	(2) 14AWG SPEAKER WIRE	V-C5	JB-P13									
	B	(1) 2"	SPARE	V-C5	JB-P13									
N410	A	(1) 4"	24 SMFO / (2) 14AWG SPEAKER WIRE	V-C4	IDF-11									
	B	(1) 4"	SPARE	V-C4	IDF-11									
N411	A	(1) 4"	(2) 24 (3) 12 SMFO	V-C4	TOLL BLDG									
	B	(1) 4"	SPARE	V-C4	TOLL BLDG									
N412	A	(1) 2"	(2) 14AWG SPEAKER WIRE	V-C4	JB-P12									
	B	(1) 2"	SPARE	V-C4	JB-P12									
N413	A	(1) 4"	(2) 24 (3) 12 SMFO	JB-N6	MAINTENANCE RM									
	B	(1) 4"	SPARE	JB-N6	MAINTENANCE RM									
	C	(1) 4"	SPARE	JB-N6	MAINTENANCE RM									
	D	(1) 4"	SPARE	JB-N6	MAINTENANCE RM									
	E	(1) 4"	SPARE	JB-N6	MAINTENANCE RM									
	F	(1) 4"	SPARE	JB-N6	MAINTENANCE RM									
N414	A	(1) 2"	24 SMFO	SIGNALIZATION CABINET	V-C14									
N415	A	(1) 4"	(1) RS232 SERIAL CABLE / (2) PROPRIETARY CABLES (SEE SPECIFICATIONS)	IDF-12	LP2402									
	B	(1) 2"	(3) 14AWG	IDF-12	LP2402									
N416	A	(1) 1"	-	MAGN. FLOW METER VAULT	REMOTE FLOW METER CABINET									
N417	A	(1) 2"	(2) 24 SMFO	V-C13	V-C14									
N418	A	(1) 1"	-	REMOTE FLOW METER CABINET	JB-N6									
N419	A,B,C,D	(4) 2"	NA	V-C14	JB-N6									FOR SERVICE PROVIDER USE
N420	A,B	(2) 2"	NA	POE VAULT 200	V-C14									
N421	A,B	(2) 2"	NA	POE VAULT F5	V-C14									

RACEWAY NO.	COND.	COND. SIZE	CABLE SIZE	FROM	TO	VIA								NOTES
N420	A	(1) 2"	(2) 14AWG SPEAKER WIRE	JB-P21	JB-P11	JB-P20	THRU	JB-P10						
N441	A	(1) 4"	(24) CAT 6	TOLL BLDG	V-C11									
	B	(1) 4"	(24) CAT 6	TOLL BLDG	V-C11									
	C	(1) 4"	(2) 24 (2) 12 SMFO	TOLL BLDG	V-C11									
	D	(1) 4"	SPARE	TOLL BLDG	V-C11									
	E	(1) 4"	SECURITY	TOLL BLDG	V-C11									
N442	A	(1) 4"	(18) CAT 6	V-C11	V-C12									
	B	(1) 4"	(18) CAT 6	V-C11	V-C12									
	C	(1) 4"	(2) 24 (2) 12 SMFO	V-C11	V-C12									
	D	(1) 4"	SECURITY	V-C11	V-C12									
N443	A	(1) 4"	(24) CAT 6	V-C12	V-C13									
	B	(1) 4"	(2) 24 (2) 12 SMFO	V-C12	V-C13									
	C	(1) 4"	SPARE	V-C12	V-C13									
	D	(1) 4"	SECURITY	V-C12	V-C13									
N451	A	(1) 2"	16 (12) CAT 6	V-C11	TOLL BOOTH 1									
	B	(1) 2"	SPARE	V-C11	TOLL BOOTH 1									
	C	(1) 2"	SPARE	V-C11	TOLL BOOTH 1									
	D	(1) 2"	SPARE	V-C11	TOLL BOOTH 1									
	E	(1) 2"	SECURITY	V-C11	TOLL BOOTH 1									
N452	A	(1) 2"	16 (12) CAT 6	V-C12	TOLL BOOTH 2									
	B	(1) 2"	SPARE	V-C12	TOLL BOOTH 2									
	C	(1) 2"	SPARE	V-C12	TOLL BOOTH 2									
	D	(1) 2"	SPARE	V-C12	TOLL BOOTH 2									
	E	(1) 2"	SECURITY	V-C12	TOLL BOOTH 2									
N453	A	(1) 2"	16 (12) CAT 6	V-C13	TOLL BOOTH 3									
	B	(1) 2"	SPARE	V-C13	TOLL BOOTH 3									
	C	(1) 2"	SPARE	V-C13	TOLL BOOTH 3									
	D	(1) 2"	SPARE	V-C13	TOLL BOOTH 3									
	E	(1) 2"	SECURITY	V-C13	TOLL BOOTH 3									
N454	A	(1) 2"	16 (12) CAT 6	V-C13	TOLL BOOTH 4									
	B	(1) 2"	SPARE	V-C13	TOLL BOOTH 4									
	C	(1) 2"	SECURITY	V-C13	TOLL BOOTH 4									



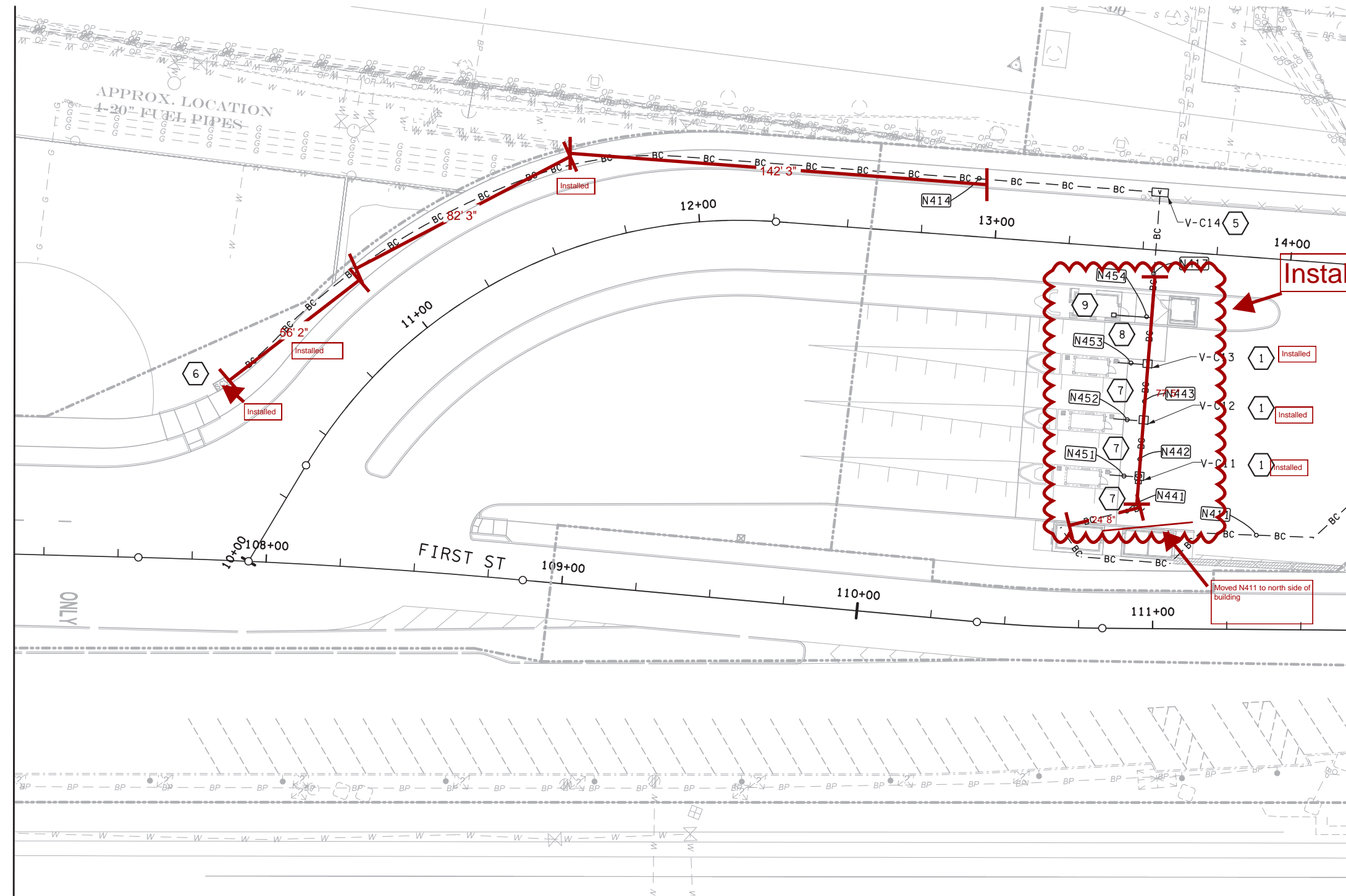
FILE NAME: P:\WSP\MUKILTEO FERRY TERMINAL\CONSTRUCTION\ERGOSYNCH\141210es10_30.dwg									
PRINTED: 4:17:16 PM 1/16/2019		LAST PRINTED BY: JMCNABB		FED.AID PROJ.NO. WA-2017-007-00					
SUBMITTAL DATE: 1/18/19		DESIGNED BY: M. KNICKERBOCKER		1/18/19		REGION NO. STATE 10 WASH			
ENTERED BY: J. MCNABB		1/18/19		CHECKED BY: S. HARRIS		1/18/19		JOB NUMBER 18W121	
MAR PROJ ENGR: C. TORRES		1/18/19		DIR TERM ENGR: N. MCINTOSH		1/18/19		CONTRACT NO. 00*****	
ASST SECRETARY: A. SCARTON				CONFORMED PLANS		REVISION		DATE BY	



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE COMMUNICATIONS  
CONDUIT AND CABLE SCHEDULE

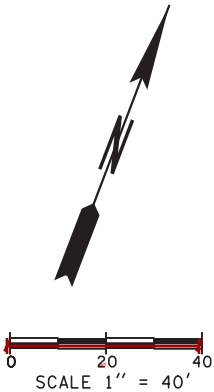
ES10.30  
SHEET  
392  
OF  
1521  
SHEETS



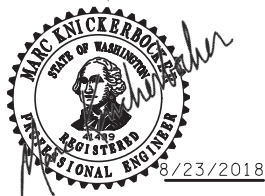


- CONSTRUCTION NOTES:
- 1 PROVIDE PULL BOX PER STANDARD PLAN J-90.10-02.
  - 2 SEE SHEET ES03.36 FOR BARRIER WALL AND CONDUIT DETAILS. SEE SHEET ES03.37 FOR COMMUNICATION POLE DETAILS.
  - 3 SEE SHEET ES03.34 FOR CABINET FOUNDATION DETAILS.
  - 4 NOT USED
  - 5 PROVIDE PULL BOX PER STANDARD PLAN J-90.21-01.
  - 6 SEE SIGNALIZATION DRAWING C16.12 FOR CONTINUATION OF CONDUIT TO SIGNAL/ITS CABINET.
  - 7 SEE TOLL BOOTH DRAWING EX02.01.
  - 8 PROVIDE JUNCTION BOX SHOWN PER EX02.01.
  - 9 PROVIDE OUTDOOR DISPLAY JUNCTION BOX SHOWN PER EX02.01.

MATCH TO ES12.13



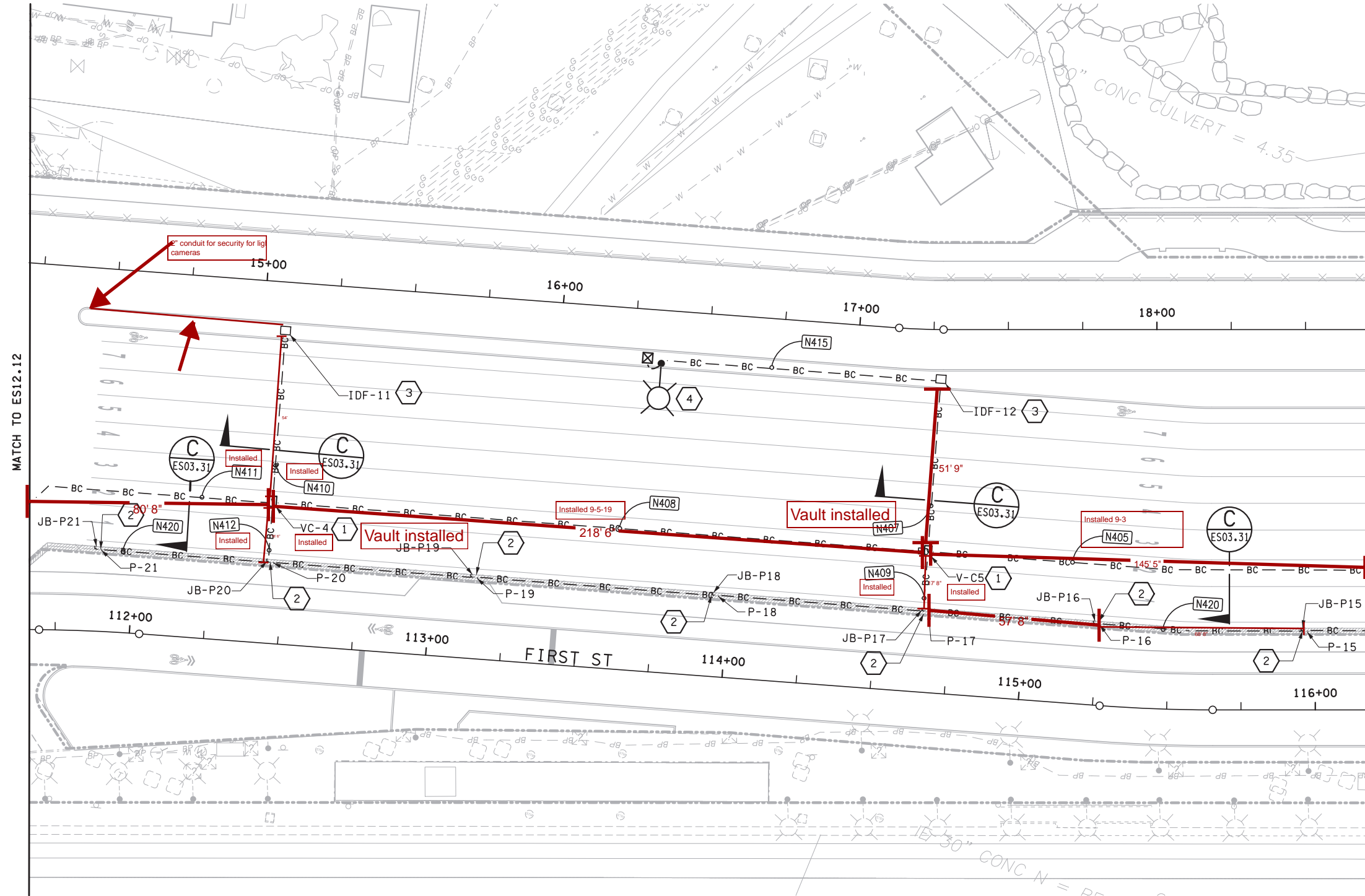
FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\14w121es12.12.dlv							
PRINTED: 11:20:26 AM 8/20/2018	LAST PRINTED BY: JMCNABB					FED.AID PROJ.NO. WA-2017-007-00	
SUBMITTAL DATE: 08/23/18						REGION NO. STATE 10 WASH	
DESIGNED BY: M. KNICKERBOCKER	12/22/17					JOB NUMBER 18W121	
ENTERED BY: J. MCNABB	12/22/17					CONTRACT NO. 00*****	
CHECKED BY: S. HARRIS	12/22/17						
MAR PROJ ENGR: C. TORRES							
DIR TERM ENGR: N. MCINTOSH							
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY			



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE COMMUNICATIONS PLAN

ES12.12  
SHEET 393  
OF 1521  
SHEETS



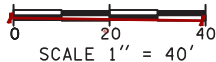


CONSTRUCTION NOTES:

- 1 PROVIDE PULL BOX PER STANDARD PLAN J-90.10-01.
- 2 SEE SHEET ES03.36 FOR BARRIER WALL CONDUIT DETAILS.  
SEE SHEET ES03.37 FOR COMMUNICATION POLE DETAILS.
- 3 SEE SHEET ES03.34 FOR CABINET DETAILS.
- 4 MOUNT WIND SPEED/DIRECTION INSTRUMENT ON LIGHT POLE.  
SEE SHEET EB11.07 FOR SYSTEM BLOCK DIAGRAM.



KEY PLAN



FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\14w121es12_13.dlv				FED.AID PROJ.NO.			
PRINTED: 3:36:37 PM 12/6/2017				WA-2017-007-00			
SUBMITTAL DATE: 12/22/17				REGION NO. STATE			
DESIGNED BY: M. KNICKERBOCKER				10 WASH			
ENTERED BY: J. MCNABB				JOB NUMBER			
CHECKED BY: S. HARRIS				18W121			
MAR PROJ ENGR: C. TORRES				CONTRACT NO.			
DIR TERM ENGR: N. MCINTOSH				00*****			
ASST SECRETARY: A. SCARTON				REVISION	DATE	BY	



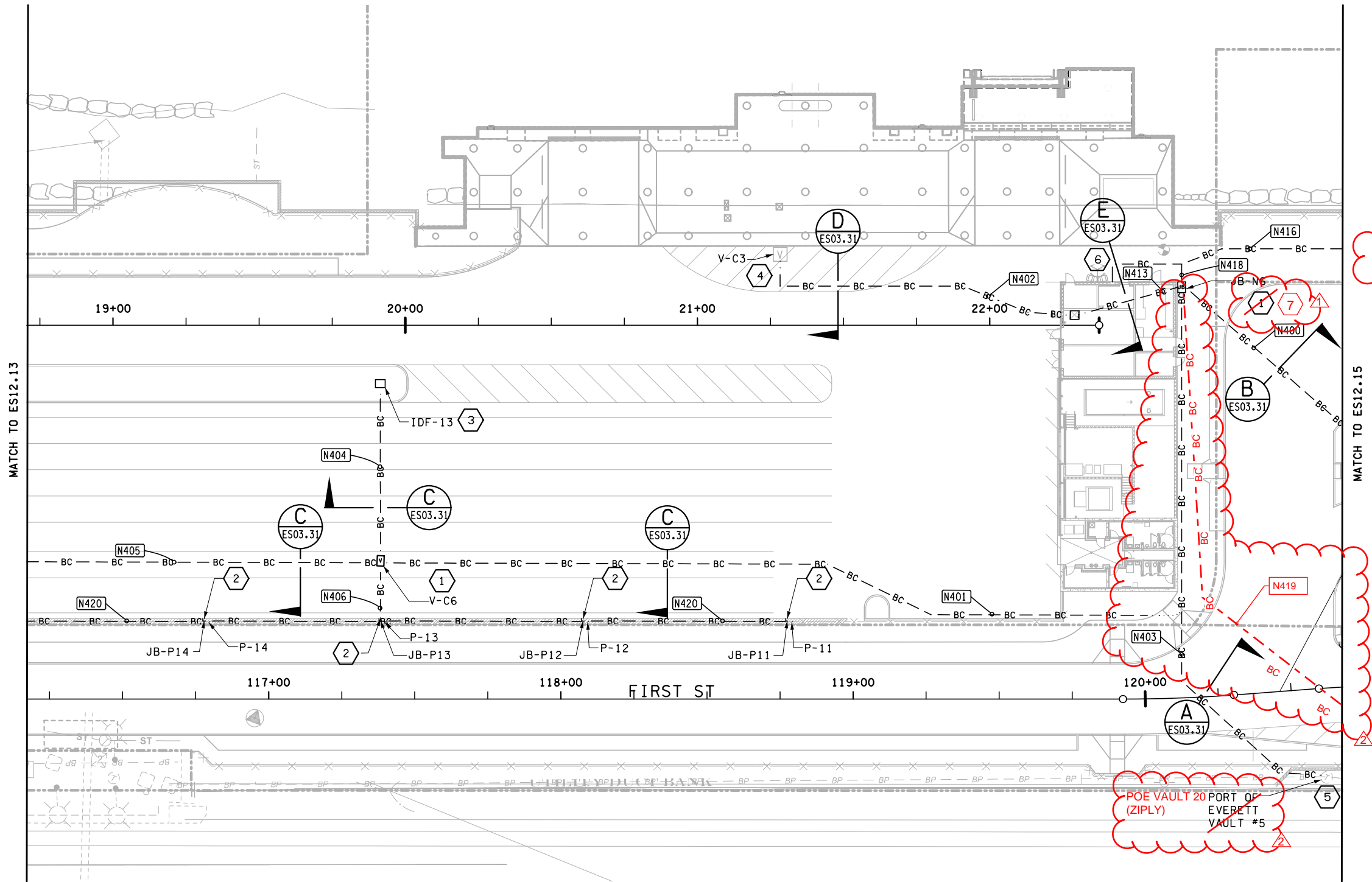
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE COMMUNICATIONS PLAN

ES12.13  
SHEET  
394  
OF  
1521  
SHEETS

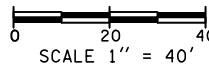
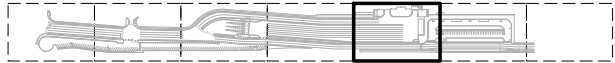








- CONSTRUCTION NOTES:
- 1 PROVIDE PULL BOX PER STANDARD PLAN J-90.10-01.
  - 2 SEE SHEET ES03.36 FOR BARRIER WALL CONDUIT DETAILS. SEE SHEET ES03.37 FOR COMMUNICATION POLE DETAILS.
  - 3 SEE SHEET ES03.34 FOR CABINET DETAILS.
  - 4 CONNECT CONDUIT DUCTBANK TO EXISTING COMMUNICATIONS VAULT.
  - 5 COORDINATE CONDUIT INSTALLATION TO EXISTING PORT OF EVERETT VAULT WITH FRONTIER COMMUNICATIONS. SEE DRAWING EB11.06 FOR CONTACT INFORMATION.
  - 6 FLOW METER REMOTE READOUT.
  - 7 PROVIDE PULL BOX PER STANDARD PLAN J-90.20-01.



FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCNST\CADD\ERGOSYNCH\14w121es12.14.dlv									
PRINTED: 4:21:58 PM 1/16/2019			LAST PRINTED BY:						FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19			JMCNABB						
DESIGNED BY: M. KNICKERBOCKER			1/18/19						WA-2017-007-00
ENTERED BY: J. MCNABB			1/18/19						REGION NO. STATE
CHECKED BY: S. HARRIS			1/18/19		⚠ Phone/Data Services Revision 09/17/20		10		WASH
MAR PROJ ENGR: C. TORRES					⚠ Pull box corrections 04/03/19		JOB NUMBER		
DIR TERM ENGR: N. MCINTOSH					CONFORMED PLANS 1/18/19		18W121		
ASST SECRETARY: A. SCARTON					REVISION		DATE		CONTRACT NO.
							BY		00****



1 PROVIDE PULL BOX PER STANDARD PLAN J-90.21-01.



12/15/2017



SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION
SITE COMMUNICATIONS PLAN

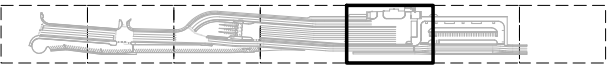
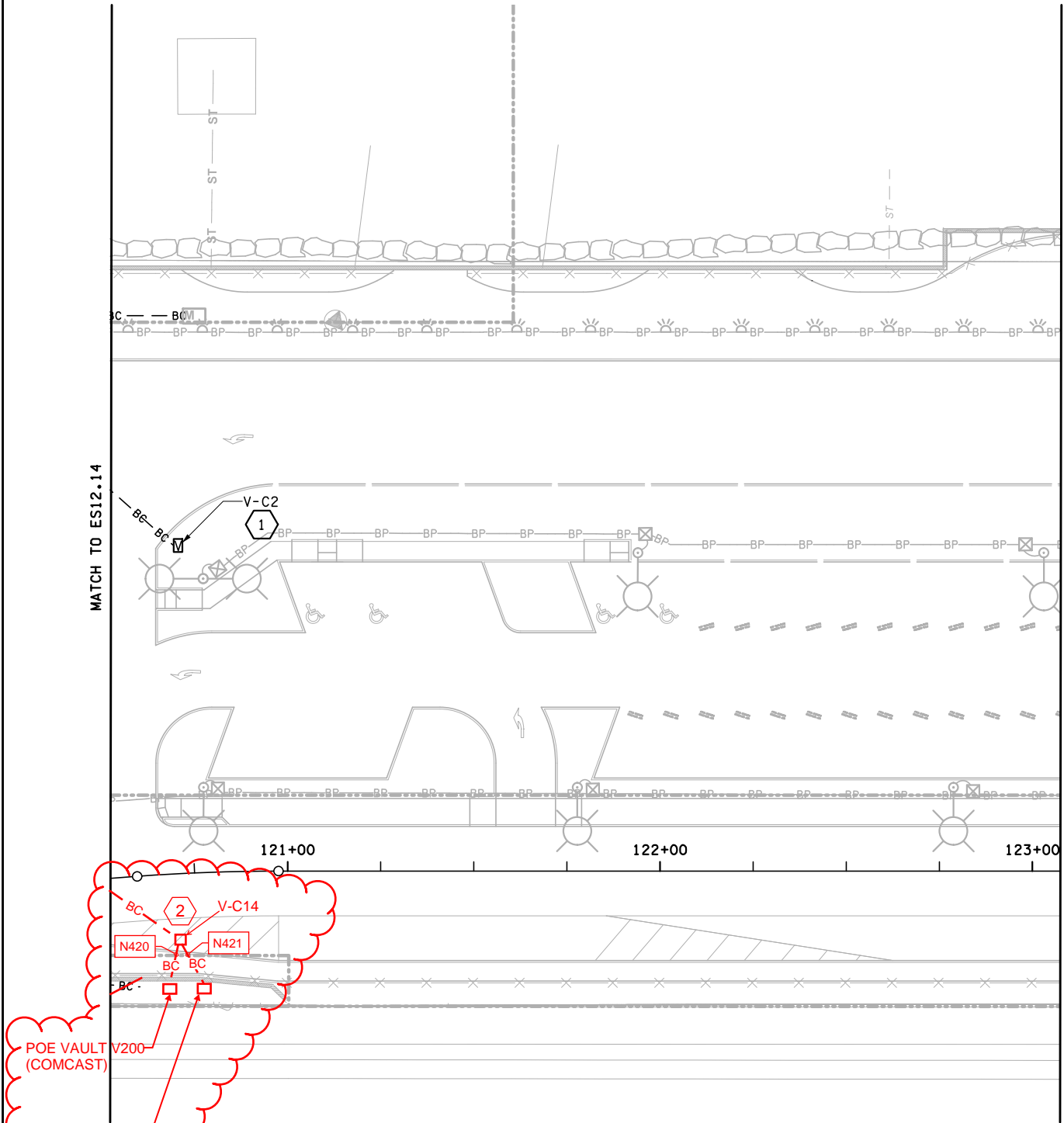
ES12.15 A  
SHEET  
396  
OF  
1521  
SHEETS



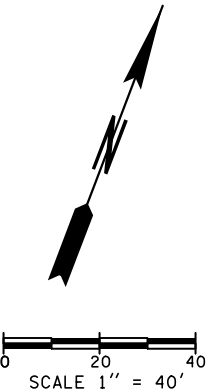
CONSTRUCTION NOTES:

1 PROVIDE PULL BOX PER STANDARD PLAN J-90.21-01.

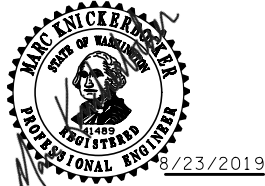
2 PROVIDE PULL BOX PER STANDARD PLAN J-90.10-03 WITH HEAVY LID.



KEY PLAN



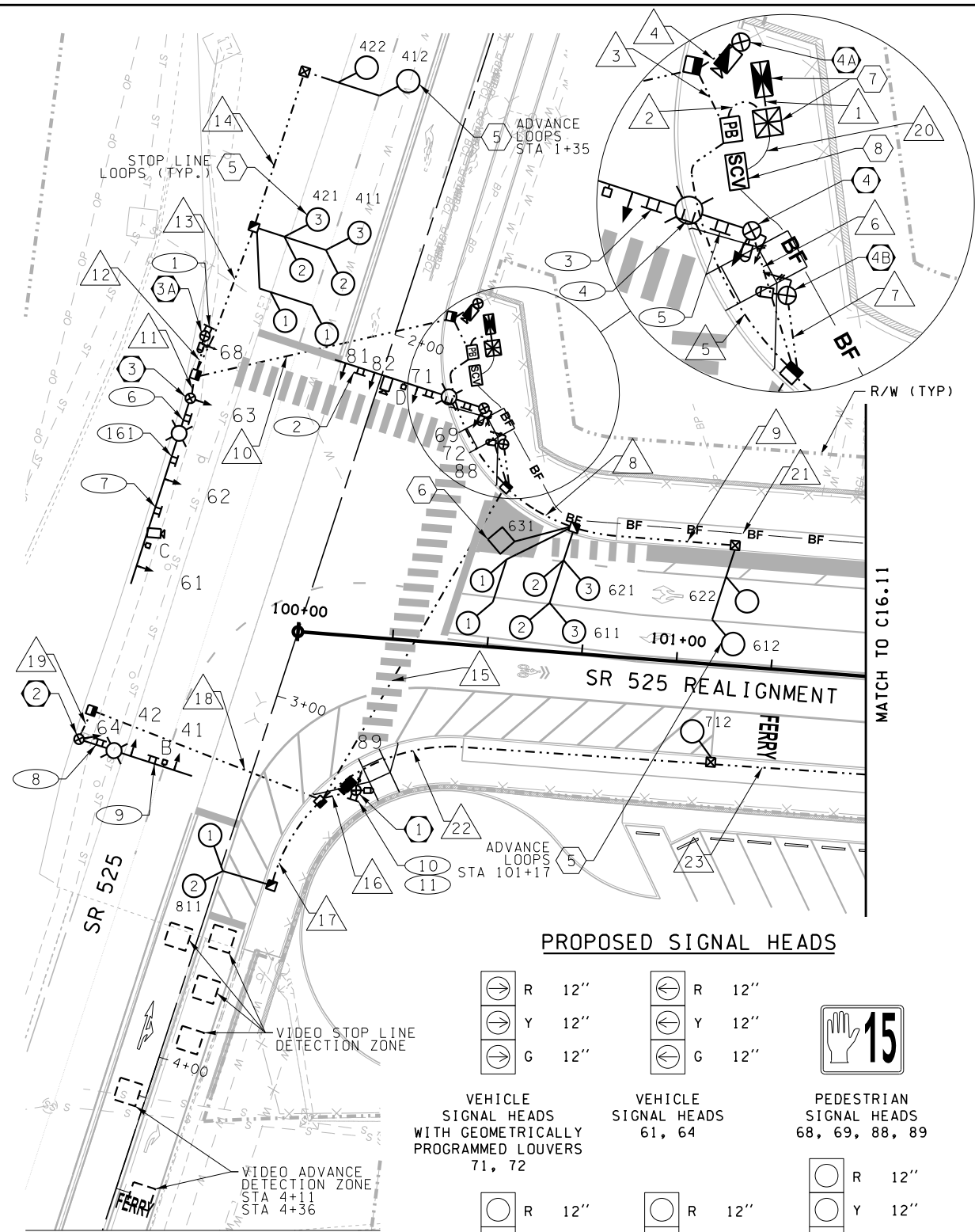
FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\14w121es12.15.dlv					
PRINTED: 4:24:14 PM 1/16/2019	LAST PRINTED BY: JMCNABB				FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 1/18/19	JMCNABB				REGION NO. STATE 10 WASH
DESIGNED BY: M. KNICKERBOCKER	1/18/19				JOB NUMBER 18W121
ENTERED BY: J. MCNABB	1/18/19	Phone/Data Services Revision	09/17/20		CONTRACT NO. 00****
CHECKED BY: S. HARRIS	1/18/19	Not Used			
MAR PROJ ENGR: C. TORRES		CONFORMED PLANS	1/18/19		
DIR TERM ENGR: N. MCINTOSH		REVISION	DATE	BY	
ASST SECRETARY: A. SCARTON					



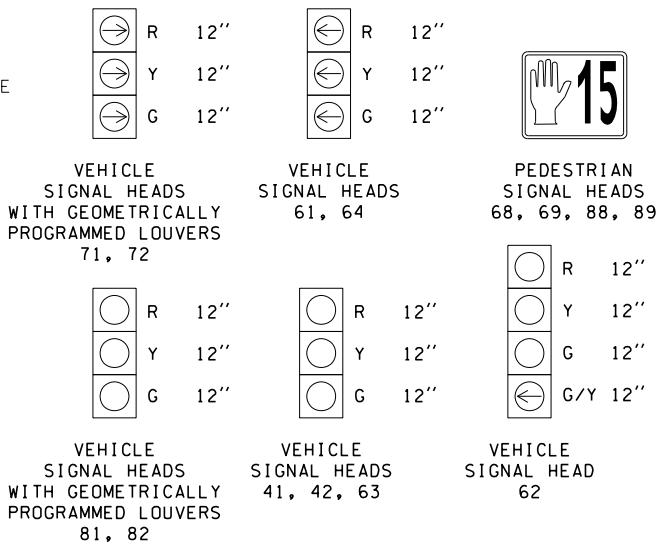
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE COMMUNICATIONS PLAN

ES12.15B  
SHEET 396 OF 1521 SHEETS





### PROPOSED SIGNAL HEADS



### PREEMPTION SCHEDULE

EVP	PHASE(S)	DETECTOR MODEL
B	4	OPTICOM 711
C	6	OPTICOM 711
D	8	OPTICOM 711

### SIGNAL CONSTRUCTION NOTES:

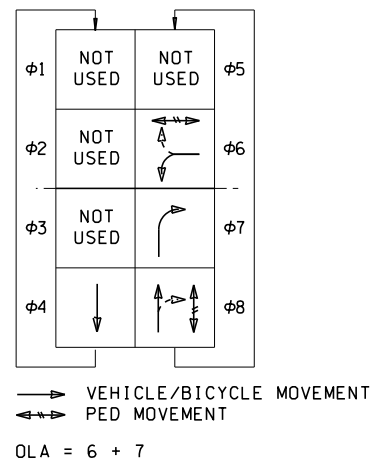
- INSTALL ONE VIDEO DETECTION CAMERA, ONE APS PUSH BUTTON ASSEMBLY, AND ONE LED COUNTDOWN PEDESTRIAN SIGNAL DISPLAY ON LIGHT POLE. FOR POLE LOCATION AND DETAILS SEE SHEET ES08.10. FOR SIGNAL EQUIPMENT MOUNTING DETAILS SEE SHEET C16.20.
- CONSTRUCT FOUNDATION AND INSTALL TYPE 3 SIGNAL STANDARD WITH LUMINAIRE AND SIGNAL MAST ARM. INSTALL TWO VEHICLE SIGNAL HEADS, ONE EVP DETECTOR, AND TWO SIGNS ON MAST ARM. INSTALL LUMINAIRE ON LUMINAIRE ARM PER ILLUMINATION PLAN. INSTALL ONE VEHICLE SIGNAL HEAD AND ONE TERMINAL CABINET ON THE POLE. FOR POLE LOCATION AND DETAILS SEE SHEET C16.20.
- CONSTRUCT FOUNDATION AND INSTALL TYPE 3 SIGNAL STANDARD WITH LUMINAIRE AND SIGNAL MAST ARM. INSTALL TWO VEHICLE SIGNAL HEADS, ONE EVP DETECTOR, FIXED-MOUNT CAMERA SR525W PER C16.51, AND THREE SIGNS ON MAST ARM. INSTALL LUMINAIRE ON LUMINAIRE ARM PER ILLUMINATION PLAN. INSTALL ONE VEHICLE SIGNAL HEAD AND ONE TERMINAL CABINET ON THE POLE. FOR POLE LOCATION AND DETAILS SEE SHEET C16.20. FOR CAMERA INSTALLATION DETAILS SEE C16.51.
- INSTALL TYPE 1 SIGNAL STANDARD WITH SLIP BASE PER WSDOT STANDARD PLANS J-21.10-04. INSTALL ONE APS PUSH BUTTON ASSEMBLY AND ONE LED COUNTDOWN PEDESTRIAN SIGNAL DISPLAY. FOR POLE LOCATION AND DETAILS SEE SHEET C16.20.
- CONSTRUCT FOUNDATION AND INSTALL TYPE 3 SIGNAL STANDARD WITH LUMINAIRE AND SIGNAL MAST ARM. INSTALL THREE VEHICLE SIGNAL HEADS, ONE EVP DETECTOR, FIXED-MOUNT CAMERA SR525S PER C16.51, AND FOUR SIGNS ON MAST ARM. INSTALL LUMINAIRE ON LUMINAIRE ARM PER ILLUMINATION PLAN. INSTALL ONE VEHICLE SIGNAL HEAD, ONE APS PUSH BUTTON ASSEMBLY, ONE LED COUNTDOWN PEDESTRIAN SIGNAL DISPLAY, AND ONE TERMINAL CABINET ON THE POLE. FOR POLE LOCATION AND DETAILS SEE SHEET C16.20. FOR CAMERA INSTALLATION DETAILS SEE C16.51.
- CONSTRUCT FOUNDATION AND INSTALL TYPE CCTV TRAFFIC SIGNAL STANDARD PER WSDOT STANDARD PLAN J-29.15-01. INSTALL ONE COHU RISE MODEL 4261-1100 PTZ CCTV CAMERA (525VCO0844) PER MANUFACTURERS RECOMMENDATIONS. FOR POLE LOCATION AND DETAILS SEE SHEET C16.20.
- INSTALL TYPE PS SIGNAL STANDARD PER WSDOT STANDARD PLAN J-20.10-03. INSTALL ONE APS PUSH BUTTON ASSEMBLY AND ONE LED COUNTDOWN PEDESTRIAN SIGNAL DISPLAY. FOR POLE LOCATION AND DETAILS SEE SHEET C16.20.
- INSTALL TYPE 3 INDUCTION LOOP DETECTOR(S). FOR LOOP INSTALLATION DETAIL SEE WSDOT STANDARD DETAIL SHEETS J-50.12-01 (19 LOCATIONS).
- INSTALL DIAMOND INDUCTION LOOP DETECTOR(S) FOR BICYCLE DETECTION. SEE DETAIL ON SHEET C16.12. FOR LOOP INSTALLATION DETAIL SEE WSDOT STANDARD DETAIL SHEETS J-50.11-01 (1 LOCATION).
- CONSTRUCT TWO-CABINET FOUNDATION PER WSDOT STANDARD DETAIL SHEET J-10.10-03. INSTALL TYPE 332D SIGNAL CONTROLLER CABINET (NAME: SR525) AND UNINTERRUPTIBLE POWER SUPPLY (525UP00844). ALL CABINET DOORS SHALL OPEN TO THE EAST SO A TECHNICIAN LOOKING INTO THE CABINETS IS ALSO FACING THE INTERSECTION. INSTALL 24-PORT PRETERMINATED PATCH PANEL, COMMUNICATION HARDWARE, PTZ CAMERA EQUIPMENT, AND FIXED-MOUNT CAMERA EQUIPMENT IN CONTROLLER CABINET. SEE ES02.10 FOR POWER SERVICE CONNECTION.
- SPLICE FIBER OPTIC CABLES TO PRETERMINATED PATCH PANEL PER SHEET EB11.01.

### WIRING SCHEDULE

△ NO.	CONDUIT SIZE	P/V DETECT 2C(S)	E.V. DETECT 3C(S)	PB TO HEAD 4C	P/V HEAD 5C	12 SMFO	24 SMFO	CCTV cat+6	VID DETECT	POWER #6	GROUND #8	REMARKS
1	3"							1		3	1	SIGNAL POWER
2	2"										1	SPARE
3	3"	11			6						1	
4	3"	11			5						1	
5	2"	5	3					3	1		1	SPARE
6	3"	9	1		4			2			1	
7	3"	18	2					1	1		1	
8	3"	1	1	2	3			1			1	SPARE
9	2"	1		2	1						1	
10	2"	9									1	
11	2"	2									1	
12	3"	9	1		4			1			1	
13	3"										1	SPARE
14	2"		1		3						1	
15	2"	1			1						1	SPARE
16	2"	2									1	
17	3"		1		2						1	
18	3"		1		2						1	SPARE
19	2"										1	
20	2"										1	INTERCONNECT *
21	2"										1	SPARE
22	2"	4									1	INTERCONNECT
23	2"	3									1	
24	2"	1									1	

\* PRETERMINATED PATCH PANEL STUB

### PHASE DIAGRAM



### APS PUSHBUTTON MESSAGES

PHASE	MESSAGE
6	>>CONTACT CITY OF MUKILTEO FOR PROGRAMMING MESSAGE<<
8	WALK SIGN IS ON TO CROSS SR 525

### OPERATIONAL NOTES

- PHASE 7 TO BE OMITTED FROM THE RING OPERATION SIGNAL TIMING IF QUEUE LOOPS ON THE RECEIVING LANE ARE OCCUPIED DUE TO HOLDING FERRY TRAFFIC.
- WHEN CALLED, PHASE 8 TIMING TO PROVIDE AN ADVANCE WALK INDICATION, AT THE DISCRETION OF THE SIGNAL OPERATIONS ENGINEER, BEFORE THE GREEN VEHICLE SIGNAL DISPLAYS ARE ACTIVATED.



KEY PLAN

0 20 40  
SCALE 1" = 40'

FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121c16-10.dwg

PRINTED: 1:21:34 PM 1/21/2019

SUBMITTAL DATE: 1/18/19

DESIGNED BY: S. THOMS

ENTERED BY: S. THOMS

CHECKED BY: S. KRISHNAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

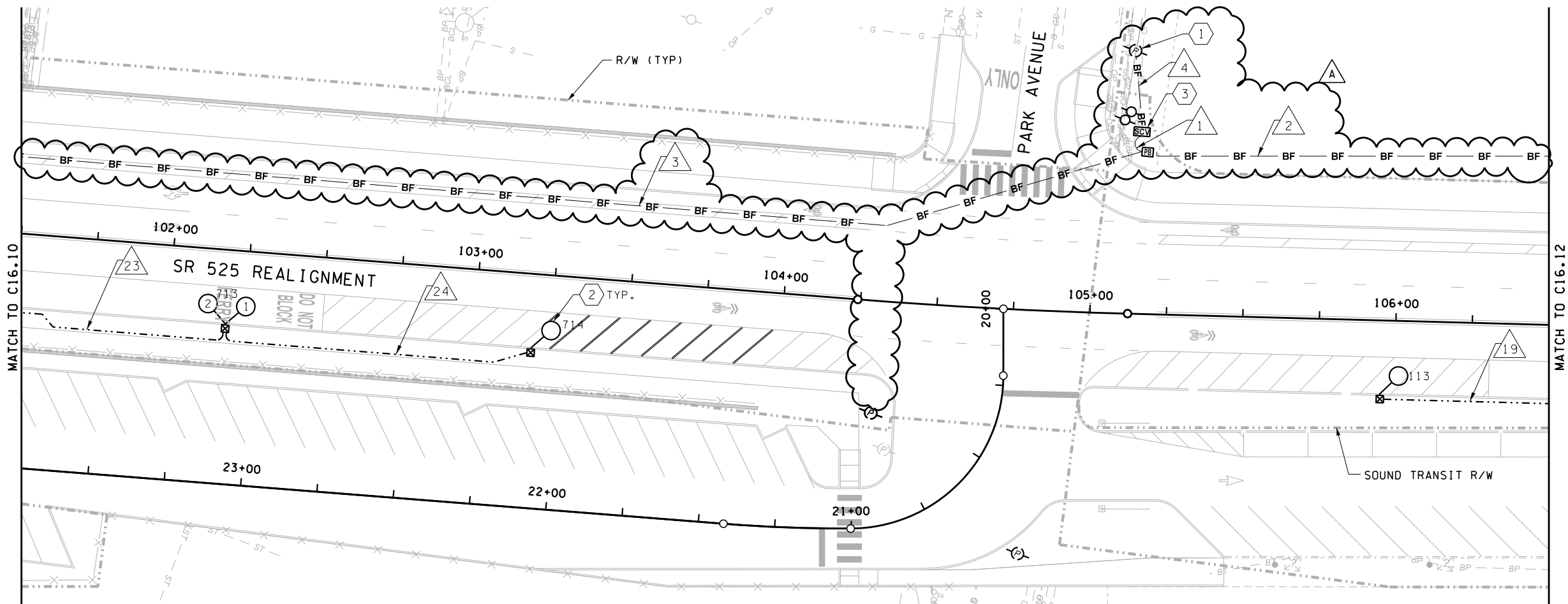
1/18/19

1/18/19

1/18/19

1/18/19





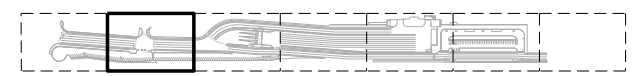
**CONSTRUCTION NOTES:**

1. CONNECT NEW CONDUIT TO POWER POLE. SEE SHEET ESO2.11. RUN EXISTING FIBER OPTIC TO NEW SMALL CABLE VAULT.
2. INSTALL TYPE 3 INDUCTION LOOP DETECTOR(S). FOR LOOP INSTALLATION DETAIL SEE WSDOT STANDARD DETAIL SHEETS J-50.12-00 (4 LOCATIONS).
3. SPLICE NEW FIBER OPTIC WITH EXISTING FIBER OPTIC IN SMALL CABLE VAULT.

**WIRING SCHEDULE**

△ NO.	CONDUIT SIZE	12 SMFO	24 SMFO	P/V DETECT 2C(S)	#8 GROUND
1	2"	1			
2	2"	1	1		
3	2"		1		
4	2"	1 EXIST			
19	2"			1	1
23	2"			3	1
24	2"			1	1

REFER TO SHEET E001.01 FOR FIBER SYSTEM BLOCK DIAGRAM.



KEY PLAN

0 20 40  
SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121c16-11.dwg

PRINTED: \$\$TIME\$\$ \$\$DATE\$\$

SUBMITTAL DATE: 3/20/19

DESIGNED BY: S. THOMS

ENTERED BY: S. THOMS

CHECKED BY: S. KRISHNAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

#USERNAME#

3/20/19

3/20/19

3/20/19

SIGNALIZATION INTERCONNECT MOD

CONFORMED PLANS

REVISION

DATE

BY

9/15/20

1/18/19

FED.AID PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321

03/20/19

Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SIGNALIZATION INTERCONNECT

C16.11

SHEET

OF

SHEETS











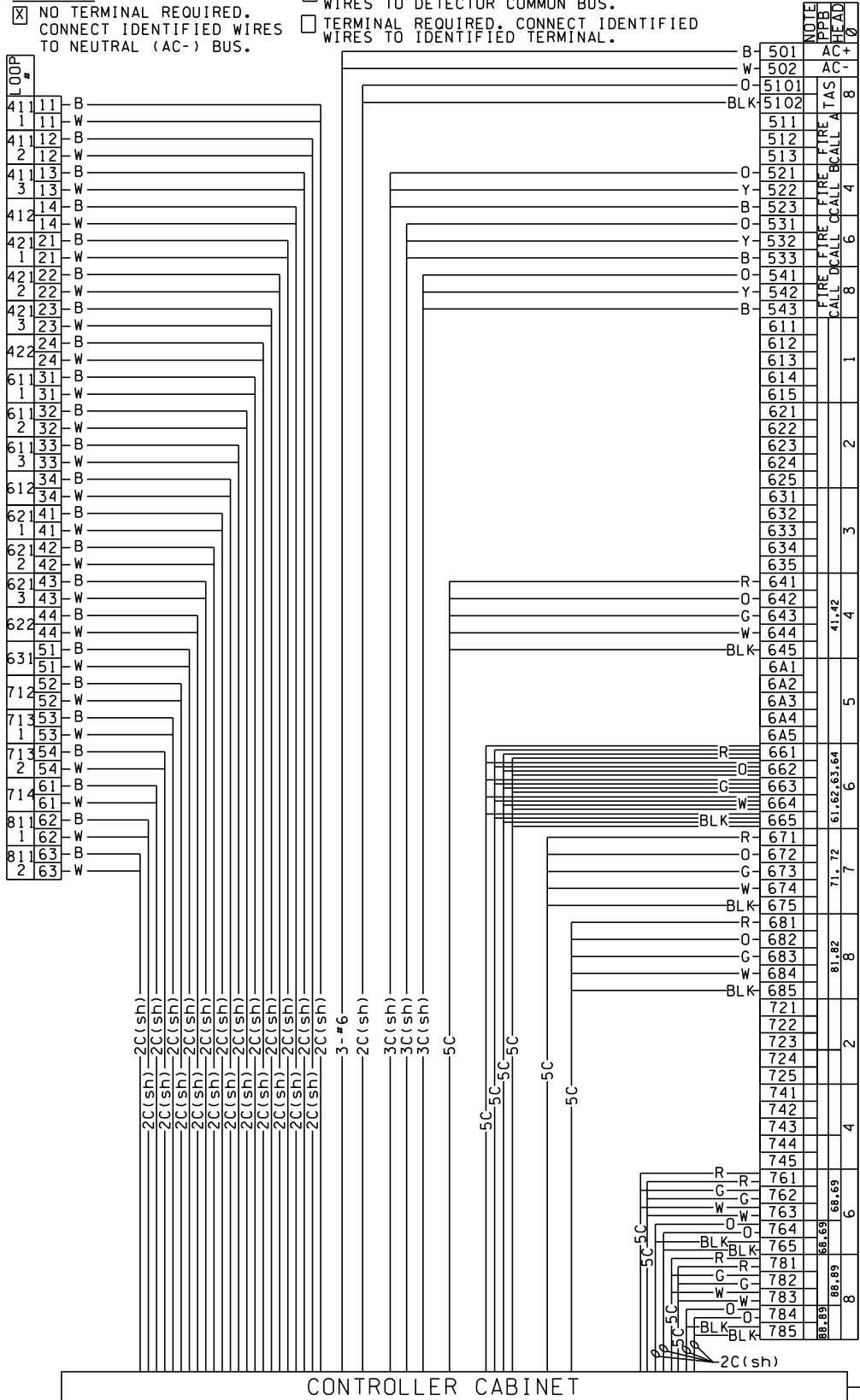




# NOTES:

NO TERMINAL REQUIRED.  
CONNECT IDENTIFIED WIRES  
TO NEUTRAL (AC-) BUS.

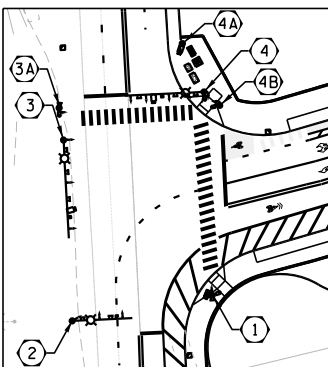
NO TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO DETECTOR COMMON BUS.  
TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO IDENTIFIED TERMINAL.



## NOTES:

1. CONNECT ALL VEHICLE AND PEDESTRIAN HEADS WIRING AT TERMINAL BLOCK IN TERMINAL CABINET ATTACHED TO SIGNAL POLE.
2. A 4C CABLE SHALL BE ROUTED BETWEEN EACH APS PUSHBUTTON ASSEMBLY AND THE NEAREST ASSOCIATED PEDESTRIAN SIGNAL DISPLAY HOUSING.
3. INSTALL THE PUSHBUTTON ASSEMBLY CONTROL BOARD IN EACH PEDESTRIAN SIGNAL HEAD HOUSING. TERMINATE THE 4C CABLES PER MANUFACTURER'S RECOMMENDATIONS.
4. ALL 2C(sh) CABLES SHALL RUN WITHOUT SPLICES FROM THE PEDESTRIAN PUSH BUTTON OR INDUCTION LOOP TO THE TERMINATION POINT INSIDE THE CONTROLLER CABINET.
5. ALL 3C(sh) CABLES SHALL RUN WITHOUT SPLICES FROM THE OPTICOM DETECTORS TO THE TERMINATION POINT INSIDE THE CONTROLLER CABINET.
6. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE GROUND WIRE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
7. ALL EMPTY/SPARE CONDUITS SHALL CONTAIN A #8 GROUND WIRE.

- △ RUN NUMBER IN WIRING SCHEDULE.  
+ SPLICE OR TERMINATION IN CABINET



## WIRE NOTES:

2C(sh): 2 CONDUCTOR SHIELDED  
DETECTION  
3C(sh): 3 CONDUCTOR SHIELDED  
EVP LEAD-IN  
4C: 4 CONDUCTOR CABLE  
5C: 5 CONDUCTOR CABLE  
#8: GROUND CABLE  
12 SMFO: 12 STRAND SINGLE MODE  
FIBER OPTIC  
cat6: CCTV CAMERA CABLE  
VID: VIDEO DETECTION CABLE

FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121c16\_30.dwg

PRINTED: 1:30:25 PM 1/21/2019

SUBMITTAL DATE: 1/18/19

DESIGNED BY: S. THOMS

ENTERED BY: S. THOMS

CHECKED BY: S. KRISHNAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

REVISION

DATE

BY

1/18/19

1/18/19

1/18/19

1/18/19

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

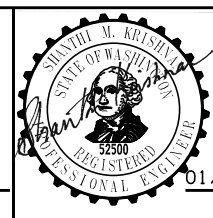
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321



**JACOBS**

**Washington State**  
**Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SIGNALIZATION WIRING PLAN  
SR525 AND SR525 REALIGNMENT

C16.30

SHEET

348

OF

1521

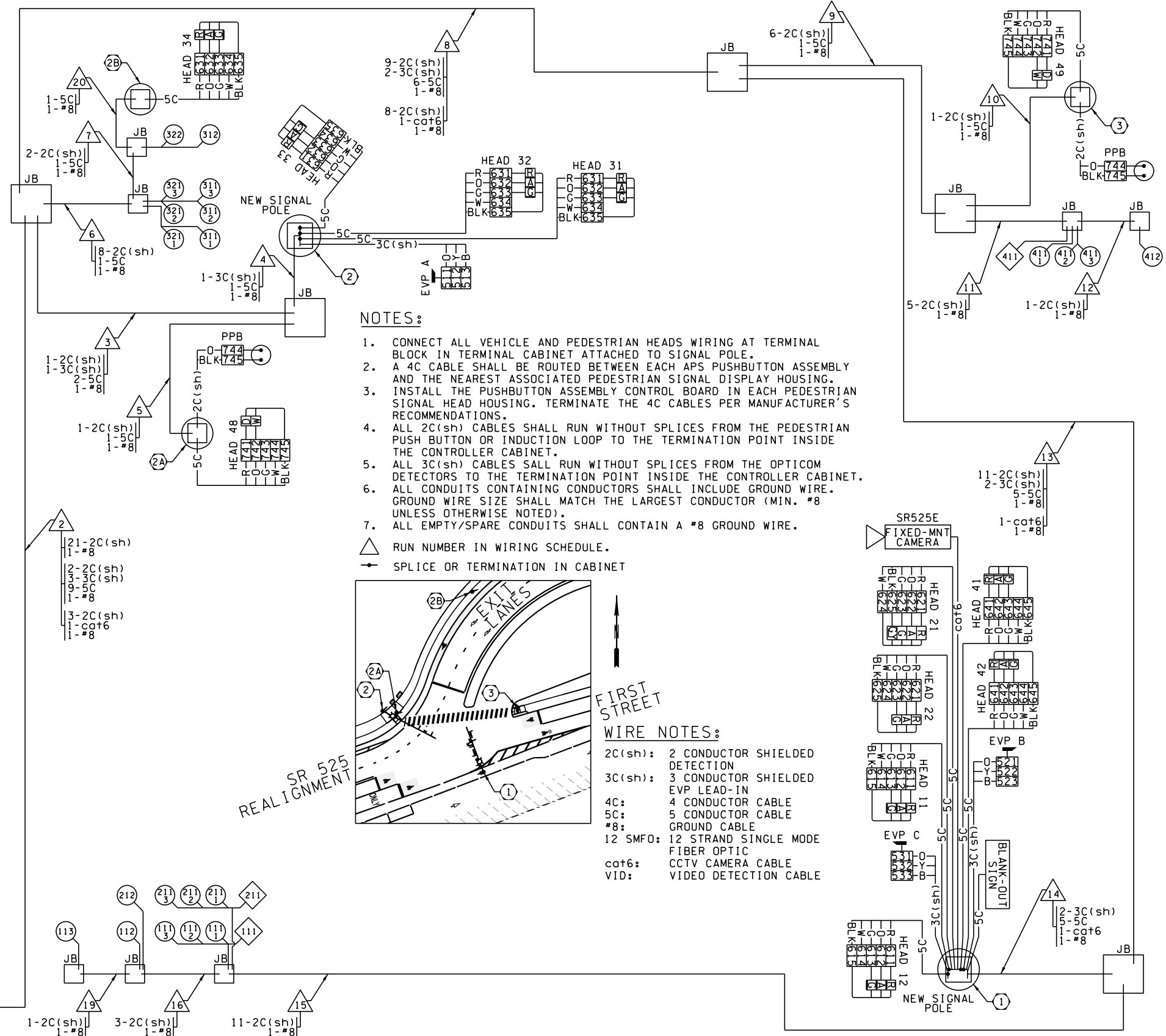
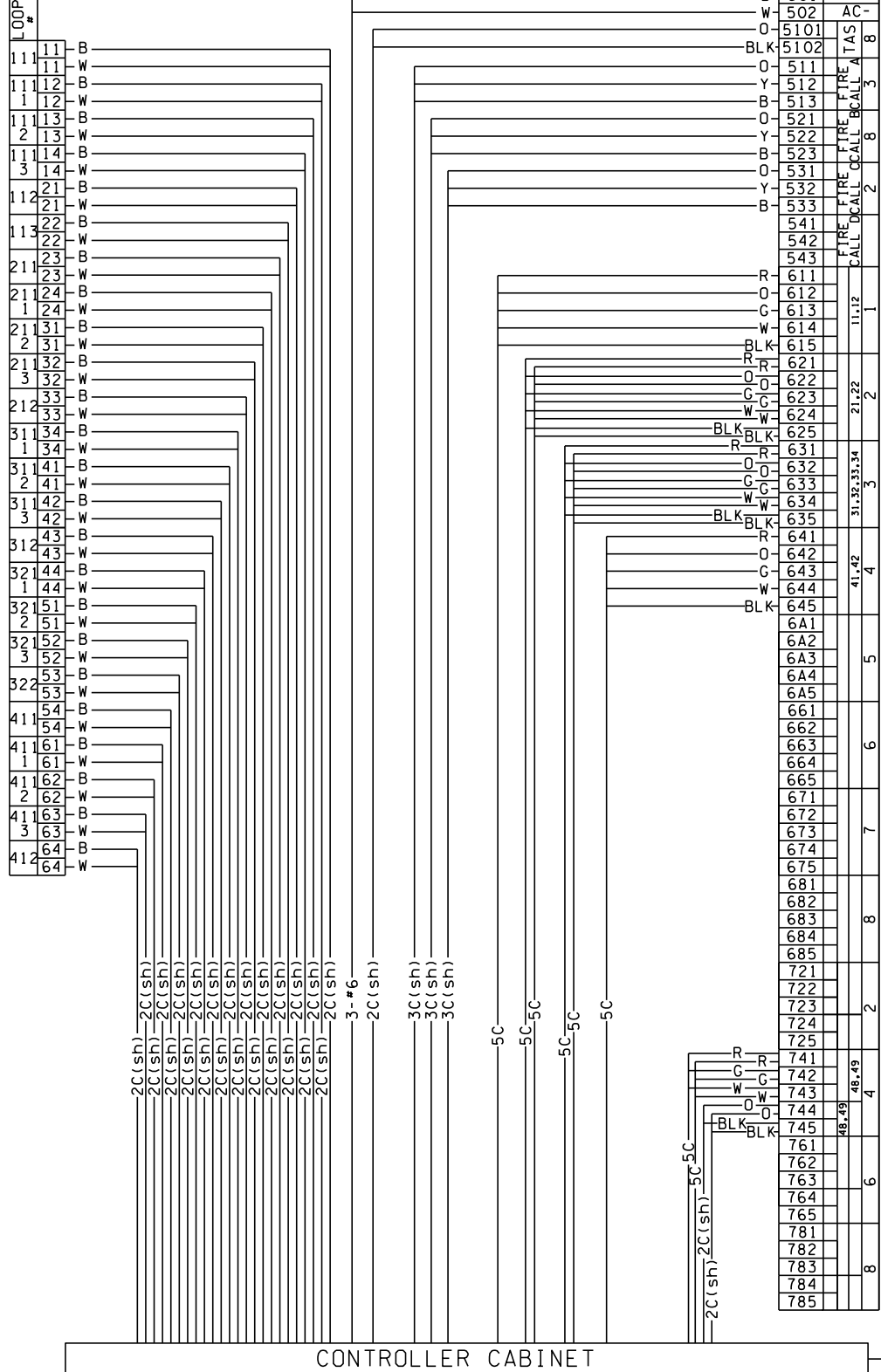
SHEETS



# NOTES:

NO TERMINAL REQUIRED.  
CONNECT IDENTIFIED WIRES  
TO NEUTRAL (AC-) BUS.

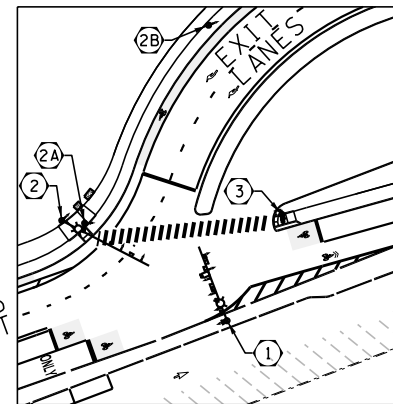
NO TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO DETECTOR COMMON BUS.  
TERMINAL REQUIRED. CONNECT IDENTIFIED  
WIRES TO IDENTIFIED TERMINAL.



## NOTES:

1. CONNECT ALL VEHICLE AND PEDESTRIAN HEADS WIRING AT TERMINAL BLOCK IN TERMINAL CABINET ATTACHED TO SIGNAL POLE.
2. A 4C CABLE SHALL BE ROUTED BETWEEN EACH APS PUSHBUTTON ASSEMBLY AND THE NEAREST ASSOCIATED PEDESTRIAN SIGNAL DISPLAY HOUSING.
3. INSTALL THE PUSHBUTTON ASSEMBLY CONTROL BOARD IN EACH PEDESTRIAN SIGNAL HEAD HOUSING. TERMINATE THE 4C CABLES PER MANUFACTURER'S RECOMMENDATIONS.
4. ALL 2C(sh) CABLES SHALL RUN WITHOUT SPLICES FROM THE PEDESTRIAN PUSH BUTTON OR INDUCTION LOOP TO THE TERMINATION POINT INSIDE THE CONTROLLER CABINET.
5. ALL 3C(sh) CABLES SHALL RUN WITHOUT SPLICES FROM THE OPTICOM DETECTORS TO THE TERMINATION POINT INSIDE THE CONTROLLER CABINET.
6. ALL CONDUITS CONTAINING CONDUCTORS SHALL INCLUDE GROUND WIRE. GROUND WIRE SIZE SHALL MATCH THE LARGEST CONDUCTOR (MIN. #8 UNLESS OTHERWISE NOTED).
7. ALL EMPTY/SPARE CONDUITS SHALL CONTAIN A #8 GROUND WIRE.

- △ RUN NUMBER IN WIRING SCHEDULE.
- SPLICE OR TERMINATION IN CABINET



## WIRE NOTES:

- 2C(sh): 2 CONDUCTOR SHIELDED DETECTION
- 3C(sh): 3 CONDUCTOR SHIELDED EVP LEAD-IN
- 4C: 4 CONDUCTOR CABLE
- 5C: 5 CONDUCTOR CABLE
- #8: GROUND CABLE
- 12 SMFO: 12 STRAND SINGLE MODE FIBER OPTIC
- cat6: CCTV CAMERA CABLE
- VID: VIDEO DETECTION CABLE

FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121c16-31.dwg

PRINTED: 1:11:39 PM 1/21/2019

SUBMITTAL DATE: 1/18/19

DESIGNED BY: S. THOMS

ENTERED BY: S. THOMS

CHECKED BY: S. KRISHNAN

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

REVISION

DATE

BY

1/18/19

1/18/19

1/18/19

1/18/19

FED.AID PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SIGNALIZATION WIRING PLAN  
SR525 REALIGNMENT AND 1ST STREET

C16.31

SHEET

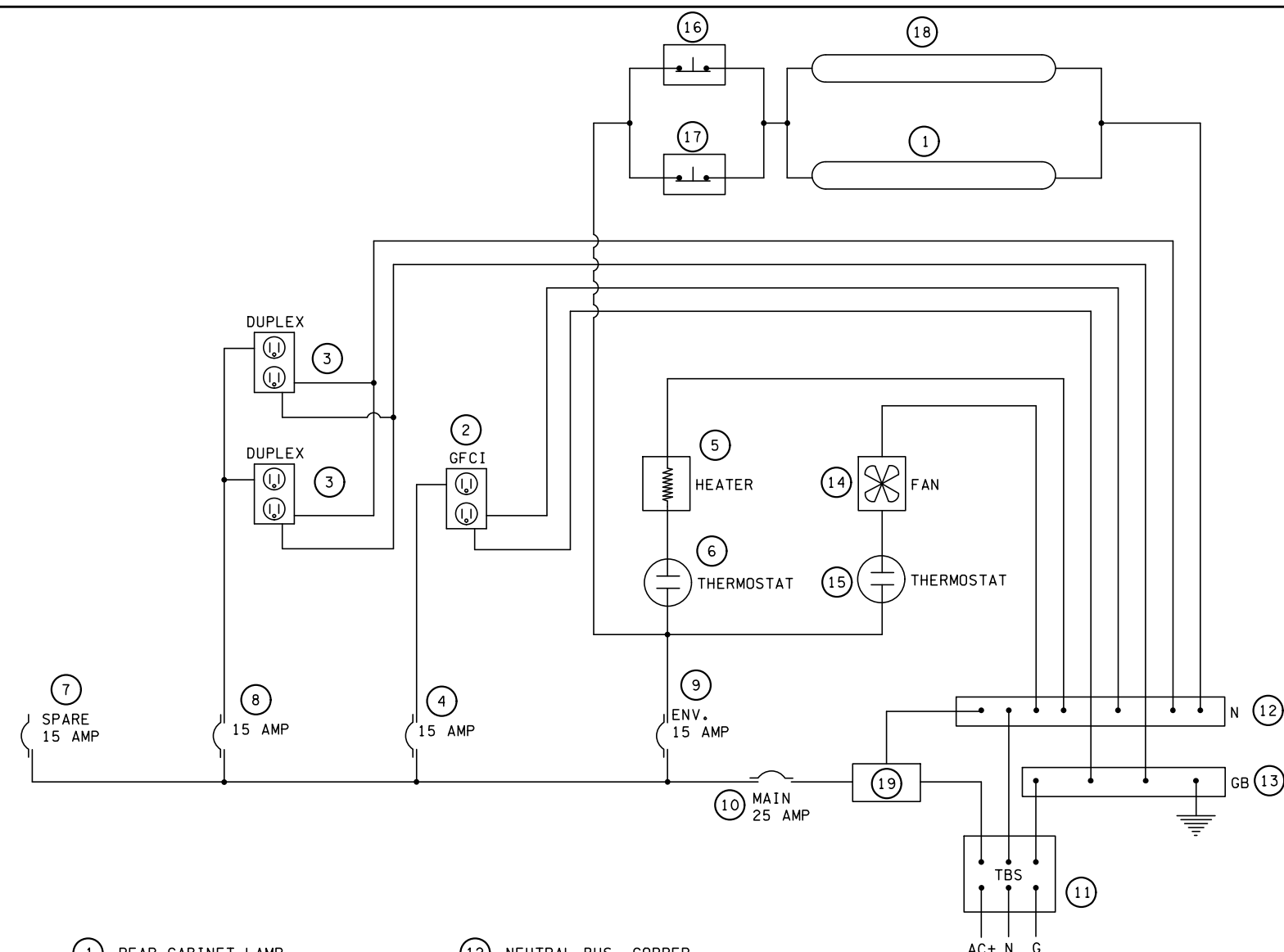
349

OF

1521

SHEETS





- 1

REAR CABINET LAMP
- 2

GFCI OUTLET DUPLEX RECEPTACLE
- 3

EIA DUPLEX RECEPTACLE
- 4

15 AMP BREAKER FOR GFCI OUTLET
- 5

100 WATT STRIP HEATER
- 6

THERMOSTAT, 50° CLOSURE
- 7

15 AMP SPARE BREAKER
- 8

15 AMP RECEPTACLE BREAKER
- 9

15 AMP ENVIROMENTAL BREAKER
- 10

25 AMP MAIN BREAKER
- 11

POWER TERMINAL BLOCK

12

NEUTRAL BUS, COPPER

13

GROUND BUS, COPPER

14

COOLING FAN

15

THERMOSTAT, 70°F CLOSURE

16

FRONT DOOR SWITH (10 a), N.C.

17

REAR DOOR SWITCH (10 A), N.C.

18

FRONT CABINET LAMP

19

SURGE SUPPRESSOR AND FILTER

20

ETHERNET SWITCH, RUGGEDCOM, MODEL RS900-HI-D-L2-L2-00

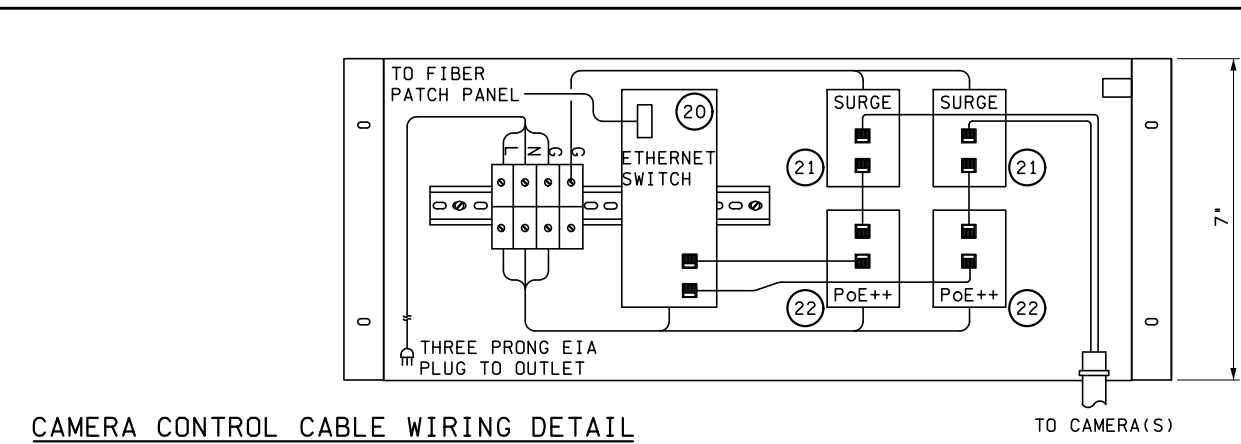
21

PoE++ SURGE PROTECTOR, COHU, MODEL 741209-001

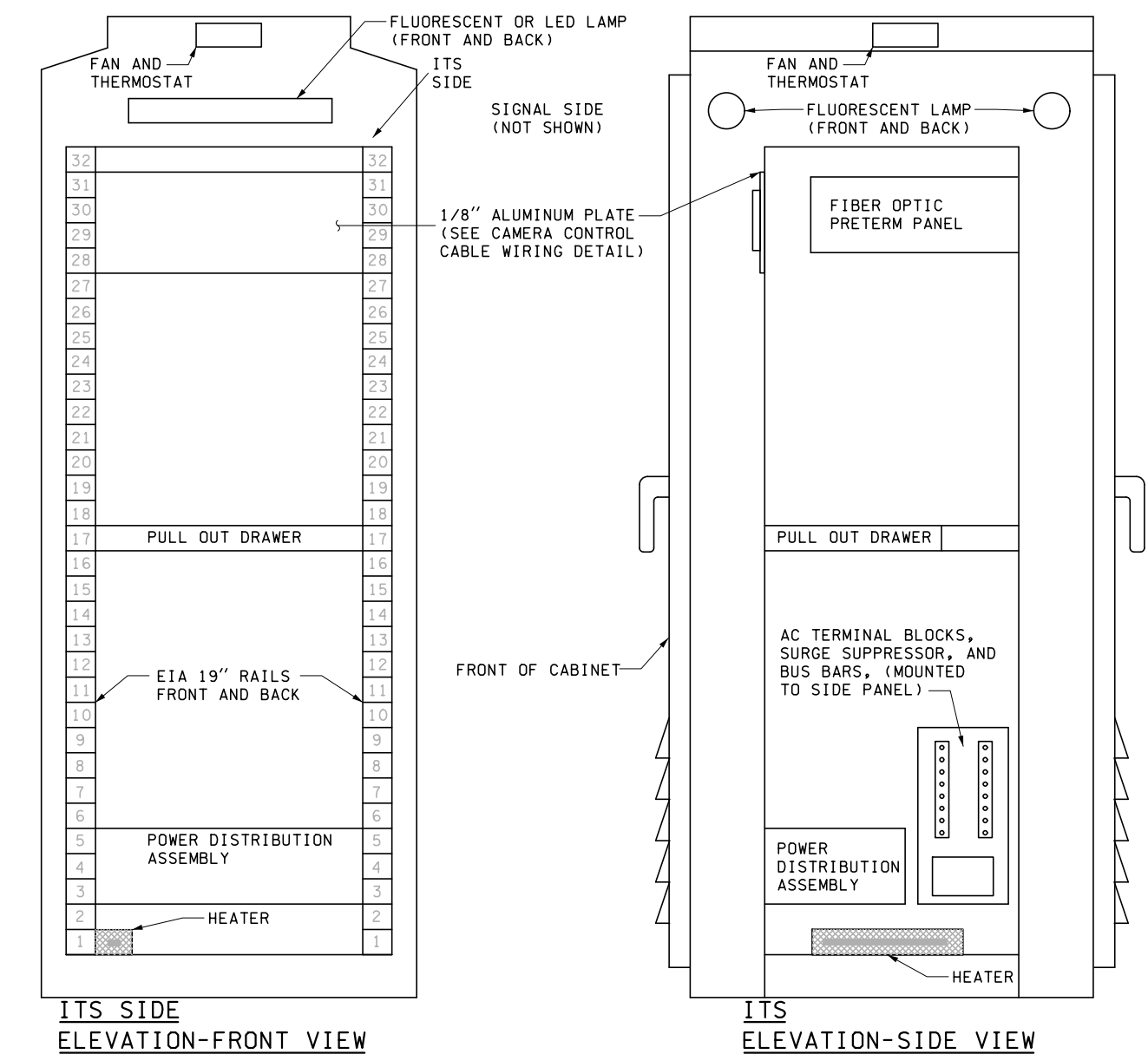
22

PoE++ INJECTOR, COHU, MODEL 7412007-003

CABINET WIRING DIAGRAM



CAMERA CONTROL CABLE WIRING DETAIL



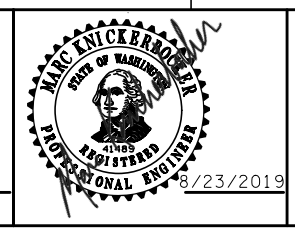
ITS SIDE  
ELEVATION-FRONT VIEW

ITS  
ELEVATION-SIDE VIEW

TYPE 332 D CABINET DETAILS  
NOT TO SCALE



FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCNST\CADD\ERGOSYNCH\14w121c16-50.dwg				
PRINTED: 4:07:51 PM 1/16/2019	LAST PRINTED BY: JMCNABB			FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 1/18/19				REGION NO. STATE 10 WASH
DESIGNED BY: M. KNICKERBOCKER	1/18/19			JOB NUMBER 18W121
ENTERED BY: J. MCNABB	1/18/19			CONTRACT NO. 00****
CHECKED BY: S. HARRIS	1/18/19			
MAR PROJ ENGR: C. TORRES				
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY



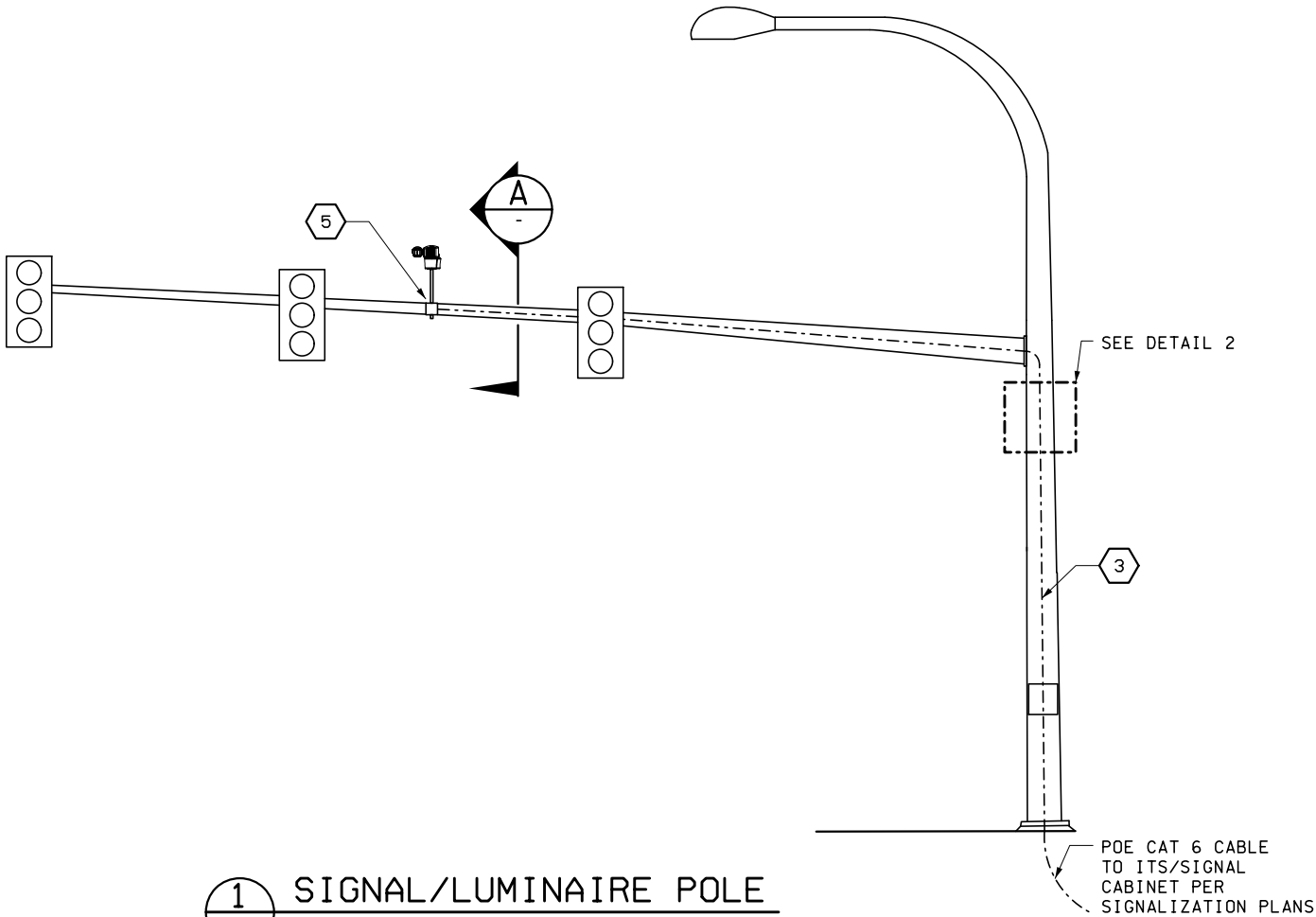
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
FIXED CAMERA CABINET  
DETAILS

C16.50  
SHEET 350 OF 1521 SHEETS

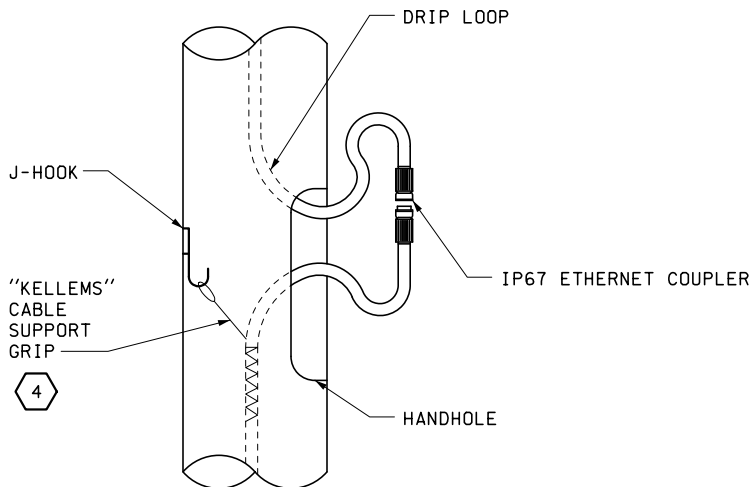


CONSTRUCTION NOTES:

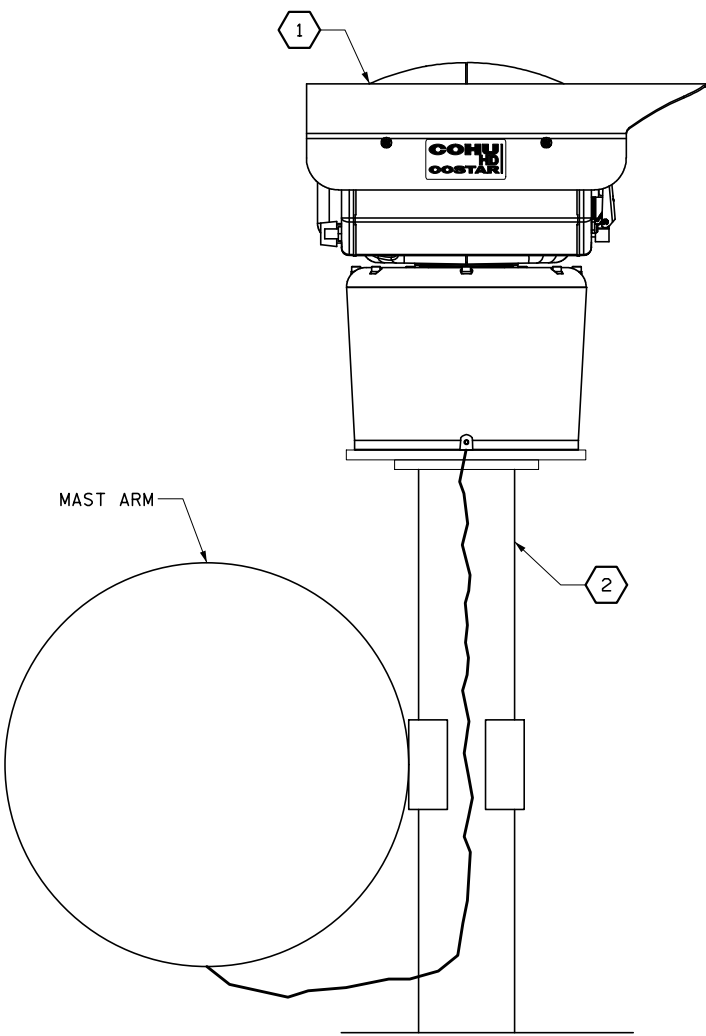
- 1
- PROVIDE COHU RISE CAMERA SYSTEM, MODEL 4261-1100.
- 2
- PROVIDE COMPATIBLE MAST ARM MOUNTING SYSTEM.  
EXAMPLE PRODUCT: COHU 2010815-001.
- 3
- PROVIDE COMPATIBLE, WEATHEPROOF CABLE PIGTAIL  
ASSEMBLY FROM CAMERA MANUFACTURER.
- 4
- CABLES INSIDE THE POLE SHALL BE SUSPENDED SUCH THAT  
NONE OF THE CABLE WEIGHT IS TRANSFERRED TO THE CABLE  
CONNECTIONS OR TERMINATIONS.
- 5
- LOCATE CAMERA ON SIGNAL MAST ARM PER SIGNALIZATION  
DRAWINGS C16.20 AND C16.21.



1 SIGNAL/LUMINAIRE POLE  
CAMERA MOUNT DETAIL NTS



2 CAMERA CABLE  
DETAIL NTS



A SIGNAL MAST ARM MOUNT DETAIL  
NTS



FILE NAME: PW:\WSF\Mukilteo\14w121_FERRYTERMCONST\CADD\ERGOSYNCH\14w121c16_51.dwg									
PRINTED: 4:09:23 PM 1/16/2019	LAST PRINTED BY: JMCNABB					FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19						WA-2017-007-00			
DESIGNED BY: M. KNICKERBOCKER	1/18/19					REGION NO. STATE			
ENTERED BY: J. MCNABB	1/18/19					10 WASH			
CHECKED BY: S. HARRIS	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		00*****			



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
TRAFFIC CAMERA  
DETAILS

C16.51  
SHEET  
351  
OF  
1521  
SHEETS



ELECTRICAL PLAN SYMBOLS

EQUIPMENT AND DEVICES

\$	SINGLE POLE TOGGLE SWITCH
\$&	SWITCH WITH SUBSCRIPT &. & CAN BE: 3 = 3-WAY TOGGLE SWITCH 4 = 4-WAY TOGGLE SWITCH b = TOGGLE SWITCH, SWITCH LEG B D = INTEGRAL 0-10V DIMMING DIAL O = INTEGRAL OCCUPANCY SENSOR V = INTEGRAL VACANCY SENSOR
▼	TELEPHONE OUTLET
▽	DATA OUTLET
JB or Q	JUNCTION BOX (J-BOX)
⌚	MOTOR CONNECTION
□	PANEL OR CABINET
⊙	ENGINE GENERATOR
⊕	RECEPTACLE, 480V, 3 PHASE
⊙	GROUND ROD
⊙ <sub>T</sub>	GROUND TEST WELL
—	GROUND CABLE, 2'-6" (MIN) BELOW GRADE
30□	NONFUSED DISCONNECT SWITCH. SIZE INDICATED, 3 POLE UNLESS OTHERWISE INDICATED.
60/40□	FUSED DISCONNECT SWITCH. SIZE INDICATED, (60 = SWITCH RATING, 40 = FUSE RATING) 3 POLE UNLESS OTHERWISE INDICATED
60□	
1⊞	COMBINATION MAGNETIC STARTER, NEMA SIZE INDICATED, 3 POLE UNLESS OTHERWISE INDICATED.
Ⓣ	THERMOSTAT
Ⓣ	TRANSFORMER (PLAN)
Ⓜ	VAULT, UTILITY VAULT
□	HORN
⊞	TYPE 1 JUNCTION BOX PER STANDARD PLANS
⊞	TYPE 2 JUNCTION BOX PER STANDARD PLANS
■	TYPE 8 JUNCTION BOX PER STANDARD PLANS
xx-xxx xxx	= EQUIP TAG = EQUIP RATING (HP OR WATT)
⊕	FIRST RESPONDER RADIO ENHANCEMENT ANTENNA
Ⓢ	PAGING SPEAKER
Ⓢ	WALL MOUNTED PAGING SPEAKER

LIGHTING

A 310	LIGHT FIXTURE DESIGNATION, SEE LIGHT FIXTURE SCHEDULE FOR TYPE "A" 310 WATTS
E	SURFACE LIGHT FIXTURE ON EMERGENCY POWER TO SCALE ON DRAWINGS
E	
○	SURFACE MOUNT LIGHT FIXTURE TO SCALE ON DRAWINGS
○	
RECESSED	RECESSED LIGHT FIXTURE ON EMERGENCY POWER TO SCALE ON DRAWINGS
RECESSED	
○	RECESSED OR LINEAR LIGHT FIXTURE TO SCALE ON DRAWINGS
○	
NL	NL = NIGHT LIGHT. UNSWITCHED LIGHT OR ONE OR MORE UNSWITCHED LAMPS AS NOTED.
7b	7b = FED BY CIRCUIT #7, SWITCH LEG B.
—○—	STRIPLIGHT LUMINAIRE
—	LINEAR WALL MOUNTED LUMINAIRE
⊙	LIGHT FIXTURE
⊙	LIGHT FIXTURE ON EMERGENCY POWER
Ⓛ	EMERGENCY LIGHTING UNIT
→⊗	EXIT SIGN, SURFACE OR CEILING MOUNTED, SINGLE FACE WITH DIRECTIONAL ARROWS AS INDICATED.
→⊗	EXIT SIGN, SURFACE OR CEILING MOUNTED, DOUBLE FACE WITH DIRECTIONAL ARROWS AS INDICATED.
→⊗	EXIT SIGN, WALL MOUNTED, SINGLE FACE WITH DIRECTIONAL ARROWS AS INDICATED.
Ⓛ	WALL MOUNTED LIGHT FIXTURE
○	LIGHT POLE
⊕	WALL WASHER
⊕	IN-GRADE UPLIGHT LUMINAIRE

RECEPTACLES

⊕	DUPLEX RECEPTACLE
⊕ GFI	DUPLEX RECEPTACLE, GFI=GROUND FAULT INTERRUPTER PROTECTED
⊕ WP	DUPLEX RECEPTACLE, WP = WEATHERPROOF COVER
○	SIMPLEX RECEPTACLE
⊕	4-PLEX RECEPTACLE
⊕ <sub>SP</sub>	SURGE PROTECTIVE DUPLEX RECEPTACLE
⊕ <sub>WR</sub>	WEATHER RESISTANT DUPLEX RECEPTACLE

RACEWAY/CIRCUIT DESIGNATIONS

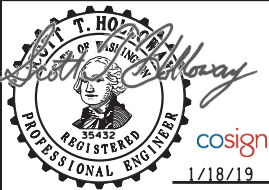
P***	CONDUIT/CIRCUIT TAG, SEE CONDUIT AND CABLE SCHEDULE
L1/3,5	CONDUIT: TICS DENOTE QUANTITY OF WIRES, LONG = NEUTRAL, CROSS TIC = GROUND, MIN 3/4"C, #12 AWG UNLESS NOTED OTHERWISE, ARROW = HOMERUN, L1/3,5 = PANEL/CIRCUIT
⊕	LB, LR, OR LL TYPE CONDUIT BODY TURNING AWAY FROM VIEWER
⊕	LB, LR, OR LL TYPE CONDUIT BODY TURNING TOWARDS VIEWER
⊕	LB, LR, OR LL TYPE CONDUIT BODY
⊕	T TYPE CONDUIT BODY
—	FLEXIBLE CORD OR CABLE
— HT —	HEAT TRACE
— OP —	OVERHEAD POWER
— BP —	BURIED POWER
— OC —	OVERHEAD COMMUNICATIONS OR CONTROL
— BC —	BURIED COMMUNICATIONS OR CONTROL
—	HEAVY SOLID LINES INDICATE NEW CONDUIT MATERIAL AND EQUIPMENT THAT IS EXPOSED
—	SCREENED SOLID LINES INDICATE EXISTING CONDUIT MATERIAL AND EQUIPMENT THAT IS EXPOSED
-----	HEAVY DASHED LINES INDICATE NEW CONDUIT MATERIAL AND EQUIPMENT THAT IS HIDDEN FROM VIEW
-----	SCREENED DASHED LINES INDICATE EXISTING CONDUIT MATERIAL AND EQUIPMENT THAT IS HIDDEN FROM VIEW

FIRE ALARM DEVICES

- BCL - -	UNDERGROUND COMMUNICATIONS
F	FIRE ALARM HORN/STROBE
FACP	FIRE ALARM CONTROL PANEL
FATC	FIRE ALARM TERMINAL CABINET
AMP	AMPLIFIER RACK
BATT	BATTERY CABINET
ESR	ELEVATOR STATUS/RECALL
PRE	PRE-ACTION SYSTEM/CONTROL UNIT
FAA	FIRE ALARM ANNUNCIATOR
EOL <sub>Re</sub>	END OF LINE DEVICE - RESISTOR
FSD	FIRE SMOKE DAMPER
L	FIRE ALARM STROBE
CP	DUST COLLECTOR CONTROL PANEL
F	DUST COLLECTOR CONTROL PANEL
AOM	ADDRESSABLE OUTPUT CONTROL MODULE
AIM	ADDRESSABLE INPUT MONITOR MODULE
AIO <sub>2</sub>	ADDRESSABLE INPUT/OUTPUT MODULE # DENOTES NUMBER OF INPUTS AND OUTPUTS
S	SMOKE DETECTOR/SENSOR - BASIC SHAPE ORIENTATION NOT TO BE CHANGED
Ⓢ	HEAT DETECTOR/SENSOR - (THERMAL DETECTION) ORIENTATION NOT TO BE CHANGED
Ⓢ	REMOTE ALARM INDICATING AND TEST SWITCH
Ⓢ	FIRE SERVICE OR EMERGENCY PHONE STATION - BASIC SHAPE
CD WⓈC	COMBINATION SPEAKER/VISIBLE - CEILING MOUNT CD= CANDELA RATING/SETTING W= WATTAGE
FS	FLOW SWITCH
PS	PRESSURE SWITCH
TS	TAMPER SWITCH
PB	PULL STATION

FILE NAME: WS\Mukilteo\14W121\_FerryTermConst\CADD\WSF\ 14W121eg01-00 Legend1.dwg

PRINTED: 11:11:01 AM 1/22/2019	LAST PRINTED BY: Morin				FED.AID PROJ.NO. WA-2017-007-00
SUBMITTAL DATE: 9/21/2018					REGION NO. STATE 10 WASH
DESIGNED BY: S. HOLLOWAY	9/21/2018				JOB NUMBER 18W121
ENTERED BY: M. MORIN	9/21/2018				CONTRACT NO. 00*****
CHECKED BY: E. RAJAH	9/21/2018				
MAR PROJ ENGR: C. TORRES	9/21/2018				
DIR TERM ENGR: N. MCINTOSH		CONFORMED DRAWINGS	1/18/19		
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

ELECTRICAL SYMBOLS I

EG01.00

SHEET  
352  
OF  
1521  
SHEETS



ONE-LINE DIAGRAM SYMBOLS

TRANSFORMER  
KVA RATINGS AND  
WINDING VOLTAGE RATING  
INDICATED.

DELTA-DELTA XFMR  
KVA AND VOLTAGE  
RATINGS AS INDICATED

ATS WITH BYPASS AND  
ISOLATION SWITCHES, 4-POLE  
(SWITCHED NEUTRAL) U.O.N.

POWER METER

CONDUIT/CIRCUIT TAG, SEE  
CONDUIT AND CABLE SCHEDULE

ELECTRONIC TRIP CIRCUIT  
BREAKERS WITH FIELD-ADJUSTABLE  
SETTINGS FOR THE FOLLOWING:  
L = LONG TIME  
S = SHORT TIME  
I = INSTANTANEOUS  
G = GROUND FAULT

CIRCUIT BREAKER, AMPERE TRIP SHOWN, 3 POLE  
UNLESS OTHERWISE INDICATED

MAGNETIC STARTER WITH NEMA SIZE INDICATED  
WITH OVERLOAD RELAY HEATER

COMBINATION MOTOR STARTER WITH ADJUSTABLE  
MAGNETIC TRIP MOTOR CIRCUIT PROTECTION  
CIRCUIT BREAKER. NEMA SIZED AND HORSEPOWER  
RATED

SWITCH CURRENT RATING INDICATED, 3 POLE  
UNLESS OTHERWISE NOTED

MOTOR  
HORSEPOWER INDICATED

GROUND ROD,  
GROUND

CURRENT  
TRANSFORMER  
(3)=3 CT'S

FUSE, AMPERE RATING  
INDICATED

SCHEMATIC DIAGRAM SYMBOLS

RELAY OR CONTACTOR CONTACT. NORMALLY CLOSED

RELAY OR CONTACTOR CONTACT. NORMALLY OPEN

SELECTOR SWITCH, MAINTAINED CONTACT  
THREE POSITION (HOA SHOWN)

SELECTOR SWITCH, SPRING RETURN TO CENTER,  
THREE POSITION

LIGHTING CONTACTOR, RELAY

PILOT LIGHT:      A= AMBER      G= GREEN  
   R= RED            Y= YELLOW

OVERLOAD  
RELAY HEATER

TIMING RELAY

LIMIT SWITCH, NORMALLY CLOSED  
HELD OPEN

LIMIT SWITCH, NORMALLY CLOSED

LIMIT SWITCH, NORMALLY OPEN  
HELD CLOSED

LIMIT SWITCH, NORMALLY OPEN

AUXILIARY CONTACT

(a) CONTACT THAT IS OPEN WHEN THE MAIN DEVICE IS  
IN THE STANDARD REFERENCE POSITION COMMONLY  
REFERRED TO AS THE NONOPERATED OR DE-ENERGIZED  
POSITION AND THAT CLOSSES WHEN THE DEVICE  
ASSUMES THE OPPOSITE POSITION.

(b) CONTACT THAT IS CLOSED WHEN THE MAIN DEVICE IS  
IN THE STANDARD REFERENCE POSITION COMMONLY  
REFERRED TO AS THE NONOPERATED OR DE-ENERGIZED  
POSITION AND THAT OPENS WHEN THE DEVICE ASSUMES  
THE OPPOSITE POSITION.

PROXIMITY LIMIT SWITCH, NORMALLY CLOSED

PROXIMITY LIMIT SWITCHES, NORMALLY OPEN

PRESSURE SWITCH, CLOSE ON  
PRESSURE SET POINT

TEMPERATURE SWITCH, NORMALLY CLOSED,  
OPEN ON TEMPERATURE SET POINT

LEVEL SWITCH, NORMALLY OPEN

PB  
PUSH BUTTON, NORMALLY CLOSED,  
MUSHROOMHEAD MAINTAINED  
CONTACT, PULL TO RELEASE

PUSH BUTTON NORMALLY OPEN,  
MOMENTARY CONTACT

PUSH BUTTON NORMALLY CLOSED,  
MOMENTARY CONTACT

ILLUMINATED PUSH BUTTON LIGHT

TIMER CONTACT NORMALLY  
CLOSED, TIMED OPEN

PILOT LIGHT (PUSH TO TEST)

SOLENOID

SWITCH

RESISTOR

HEATER  
HEATER WATTAGE INDICATED

DUPLEX RECEPTACLE

HORN

BELL

SUPPRESSOR

STROBE LIGHT

CONTROL POWER  
TRANSFORMER

WIRE LABELING

\* SOURCE/DESTINATION  
OF WIRE

WIRE NUMBER

\* THE SOURCE OR DESTINATION OF THE WIRE IS THE  
NEXT DEVICE THAT PROVIDES A TERMINAL FOR  
THIS WIRE.



GENERAL NOTES:

1. DIMENSIONS & SIZES SHOWN ARE IN FEET AND INCHES UNLESS OTHERWISE NOTED.
2. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CONDITIONS AS DEPICTED ON THESE PLANS INCLUDING QUANTITIES, LOCATIONS, RATINGS, AND FUNCTION OF EXISTING EQUIPMENT, CONDUIT, AND WIRE. THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND SHALL ASSUME FULL RESPONSIBILITY FOR MEASURED QUANTITIES.
3. THE CONTRACTOR SHALL COORDINATE POWER, CONTROL, AND COMMUNICATIONS SYSTEMS SHUTDOWN WITH THE ENGINEER TO MINIMIZE DISRUPTION OF NORMAL FACILITY OPERATION.
4. CONDUIT AND WIRE NOTED FOR DEMOLITION SHALL BE REMOVED FROM THEIR POINT OF BEGINNING TO WHERE THEY TERMINATE. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ALL ABANDONED WIRING ENCOUNTERED.
5. EQUIPMENT DIMENSIONS AND CONFIGURATION SHOWN ARE APPROXIMATE. ACTUAL SIZE AND LAYOUT SHALL BE PER THE ENGINEER APPROVED CONTRACTOR'S SHOP DRAWINGS.
6. CONTRACTOR IS RESPONSIBLE FOR ARRANGING AND PROVIDING TEMPORARY POWER AND LIGHTING FOR WORK AREAS.
7. PROVIDE CONDUIT TAGS FOR ALL EXISTING AND NEW CONDUITS INDICATED ON THE PLANS.
8. SIZE JUNCTION BOXES PER NEC 314.28 UNLESS SHOWN OTHERWISE ON PLANS.

CABLE & CONDUIT ABBREVIATIONS

2"C,10#12,2#12SP,#12G(C10)	2" CONDUIT, TYPE PER SPECIAL PROVISIONS; TEN #12 CONDUCTORS PLUS TWO SPARE #12'S AND A #12 GROUND CONDUCTOR, INSULATION TYPE PER SPECIAL PROVISIONS; "C10" CONDUIT LABEL.
1½"C(C100)	1½" CONDUIT, TYPE PER SPECIAL PROVISIONS; SEE ONE-LINES OR PLANS FOR ENCLOSED CABLE AND WIRE INFORMATION; "C100" CONDUIT LABEL.
¾"EC (F10)	¾" EMPTY CONDUIT WITH PULL STRING, TYPE PER SPECIAL PROVISIONS; "F10" CONDUIT LABEL.
1"LFMC(H10)	1" LIQUIDTIGHT FLEXIBLE METAL CONDUIT, SEE ONE-LINES OR PLANS FOR ENCLOSED CABLE AND WIRE INFORMATION; "H10" CONDUIT LABEL. (LFMC, EC = EMPTY LIQUIDTIGHT FLEXIBLE METAL CONDUIT)
24/C#12(10)	MULTICONDUCTOR CABLE. TWENTY-FOUR CONDUCTORS, SIZE #12; "10" CABLE LABEL.

ABBREVIATIONS

A, AMP(S)	AMPERE(S)	HF	HEADFRAME
AB	ALLEN-BRADLEY	HGR	HANGER
AF	AMPERE FRAME	HH	HANDHOLE
AFF	ABOVE FINISH FLOOR	HID	HIGH INTENSITY DISCHARGE
AG	AUXILIARY GUTTER	HOA	HAND-OFF-AUTO
AIC	AMPERES INTERRUPTING CAPACITY	HP	HORSEPOWER
ALRM	ALARM	HPS	HIGH PRESSURE SODIUM
ANN, ANNC	ANNUNCIATOR	HPU	HYDRAULIC POWER UNIT
APPROX	APPROXIMATELY	HT	HEAT TRACE
AT	AMPERE TRIP	HYD	HYDRAULIC
ATS	AUTOMATIC TRANSFER SWITCH	HPU	HYDRAULIC POWER UNIT
AUX	AUXILIARY		
AWG	AMERICAN WIRE GAUGE		
		IC	INTERRUPTING CAPACITY
		ID	INSIDE DIAMETER
		IMC	INTERMEDIATE METAL CONDUIT
		IR	INFRARED
BKR	BREAKER	J, JB, J-BOX	JUNCTION BOX
BOM	BILL OF MATERIALS	JS	JOYSTICK
C	CONDUIT, CONDUCTOR	Kcmil, KCM	THOUSAND CIRCULAR MILLS
CAB	CABINET	KV	KILOVOLT
CAT	CATALOG	KVA	KILOVOLT AMPERE
CB	CIRCUIT BREAKER	KVAR	KILOVAR(S)
CL	CENTERLINE	KW	KILOWATT
CDF	CONTROLLED DENSITY FILL		
CKT	CIRCUIT	L	LEFT
CO	CONDUIT ONLY	LC	LIGHTING CONTACTOR
COMB	COMBINATION	LCC	LINE CONTROL CABINET
COMM	COMMUNICATION	LFC	LIQUIDTIGHT FLEXIBLE CONDUIT
CP	CONTROL PANEL	LFMC	LIQUIDTIGHT FLEXIBLE METAL CONDUIT
CPT	CONTROL POWER TRANSFORMER	LOC'D	LOCATED
CPU	CENTRAL PROCESSING UNIT	LT	LIGHT
CR	CONTROL RELAY	LS	LIMIT SWITCH
CS	CONTROL STATION		
CT	CURRENT TRANSFORMER	M	MAGNETIC CONTACTOR COILS, METERS, MOTOR
CTRL	CONTROL	MCB	MAIN CIRCUIT BREAKER
CU	COPPER	MCC	MOTOR CONTROL CENTER
		MCR	MASTER CONTROL RELAY
		MH	METAL HALIDE; MANHOLE
		MISC	MISCELLANEOUS
		MLO	MAIN LUGS ONLY
		MM, mm	MILLIMETER(S)
		MPZ	MINI POWER ZONE
		MS	MOTOR STARTER
		MTR	MOTOR
		MTS	MANUAL TRANSFER SWITCH
		N	NORTH
		NCHO	NORMALLY CLOSED HELD OPEN
		NEC	NATIONAL ELECTRICAL CODE
		NEUT	NEUTRAL
		NOHC	NORMALLY OPEN HELD CLOSED
		NP	NAMEPLATE
		NTS	NOT TO SCALE
		OC	ON CENTER
		OD	OUTSIDE DIAMETER
		OP	OVERHEAD POWER
		P	POLE
		PA	PUBLIC ADDRESS
		PB	PUSHBUTTON
		PE, PC	PHOTOELECTRIC SENSOR (PHOTOCELL)
		PH	PHASE
		PL OR P	PLATE
		PLC	PROGRAMMABLE LOGIC CONTROLLER
		PNL	PANEL
DC	DIRECT CURRENT		
DIA	DIAMETER		
DIST	DISTRIBUTION		
DN	DOWN		
DS	DISCONNECT SWITCH		
DWG	DRAWING		
E	EAST		
EC	EMPTY CONDUIT		
EG	ENGINE GENERATOR		
EGC	EQUIPMENT GROUND CONDUCTOR		
ELEC, ELECT	ELECTRICAL		
EMT	ELECTRICAL METALLIC TUBING		
ENC	ENCLOSED		
EQUIP	EQUIPMENT		
EXIST	EXISTING		
EWC	ELECTRIC WATER COOLER		
FC, FLEX	FLEXIBLE CONDUIT		
FDR	FEEDER		
FLC	FLUORESCENT, COMPACT		
FT	FEET		
FS	FLOAT SWITCH		
FU, F	FUSE		
FVR	FULL VOLTAGE REVERSING		
FVNR	FULL VOLTAGE NON-REVERSING		
FWD	FORWARD		
G, GND	GROUND		
GA	GAUGE		
GALV	GALVANIZED		
GEN	GENERATOR		
GFI	GROUND FAULT INTERRUPTER		
GL	GREEN LIGHT		
GWB	GYPSUM WALL BOARD		

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)  
MARINE STRUCTURES

ELECTRICAL ABBREVIATIONS  
AND NOTES

EG01.02

SHEET

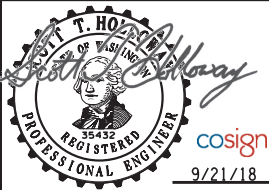
354

OF

1521

SHEETS

FILE NAME: WS\Mulkiteo\18W122_MarineStructures\CADD\WSF\14W121eg01_02 Abbreviations.dlv					
PRINTED: 11:11:05 AM 1/22/2019	LAST PRINTED BY: Morin				FED.AID PROJ.NO.
SUBMITTAL DATE: 9/21/2018					WA-2017-007-00
DESIGNED BY: S. HOLLOWAY	9/21/2018				REGION NO. STATE
ENTERED BY: M. MORIN	9/21/2018				10 WASH
CHECKED BY: E. RAJAH	9/21/2018				JOB NUMBER
MAR PROJ ENGR: C. TORRES	9/21/2018				18W122
DIR TERM ENGR: N. MCINTOSH					CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	00*****





NOTES:

- 1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
- 2. SEE C16 SERIES DRAWINGS FOR TRAFFIC SIGNAL PLANS.
- 3. SEE ES12 SERIES DRAWINGS FOR SITE ELECTRICAL COMMUNICATIONS PLANS.
- 4. SEE ES10 SERIES DRAWINGS FOR CABLE AND CONDUIT SCHEDULES.

CONSTRUCTION NOTES:

- 1 INSTALL CONDUIT AND CONDUCTORS TO TRAFFIC SIGNAL CONTROLLER CABINET FROM WSDOT ELECTRICAL SERVICE.
- 2 LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.
- 4 NEW WSDOT ELECTRICAL SERVICE CABINET TYPE "D". SEE WSDOT STANDARD PLAN J-10.21-00.
- 8 CONTINUE CONDUIT AND CONNECT TO NEW POLE MOUNTED TRANSFORMER BY SNOPOD APPROXIMATELY 200FT FROM THIS POINT. CONTRACTOR TO COORDINATE WITH SNOPOD FOR CONDUIT CONNECTION.
- 12 PROVIDE A SEPARATE SPARE 2" CONDUIT.

RFI 043 - The following utilities are shown on the Contract plans, however no station offsets or coordinates are provided for survey and layout purposes

- Questions:
- 1. Sewer Line 3 and 4 shown on C08.14
  - 2. All Fire Water Lines on C08.14

Answer:  
Coordinates and stations/offsets were not provided for the fire lines and sanitary side sewers because these are to be privately owned (by WSF), and subject to field verification for the exact locations of connections to buildings and the fire vaults. The vertical elevations are more critical than the precise horizontal locations for this piping, although they should be close to the layouts shown. If CAD files are provided and used for coordinates, the horizontal locations should also be treated as approximate and subject to field verification.

- Question:
- 3. All Buried Power vaults/handholes on Sheets ES02.10 to ES02.16

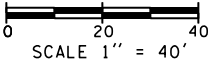
Answer:  
Per General Note 2 and 5 on sheet EG01.02, all power vaults/handhold configurations are approximate. Dimension shall be field verified by the contractor to avoid conflicts with other disciplines. Equipment shown in the CAD files are diagrammatic and have been placed in relation to other utilities to avoid conflict but are not final.

- Questions:
- All Buried Comm vaults/handholes on Sheets ES12.12 to ES12.15

Answer:  
All power vaults/handhold configurations are approximate. Dimension shall be field verified by the contractor to avoid conflicts with other disciplines. Equipment shown in the CAD files are diagrammatic and have been placed in relation to other utilities to avoid conflict but are not final.



KEY PLAN



JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL PLAN

ES02.10

SHEET  
355  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_10.dwg									
PRINTED: 2:26:59 PM 1/16/2019	LAST PRINTED BY: slaterj					FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19						WA-2017-007-00			
DESIGNED BY: J. SLATER	1/18/19					REGION NO. STATE			
ENTERED BY: J. SLATER	1/18/19					10 WASH			
CHECKED BY: M. BAGINSKI	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		009321			



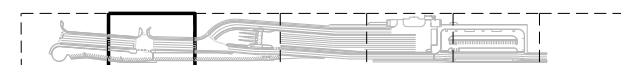
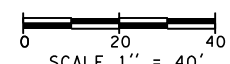


~~MATCH TO ES02.10~~



1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
2. SEE ES12 SERIES DRAWINGS FOR SITE COMMUNICATIONS PLANS.
3. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING DUCT BANK INFORMATION.
4. SEE ES10 SERIES DRAWINGS FOR CABLE AND CONDUIT SCHEDULES.

- 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
- 6 EXISTING ELECTRICAL POLE AND OVERHEAD POWER LINES TO BE RELOCATED BY SNOPOD. CONTRACTOR TO COORDINATE WITH SNOPOD. MINIMUM 18' OVERHEAD CLEARANCE REQUIRED. POLES AND OVERHEAD LINES TO BE RELOCATED OUTSIDE OF SOUND TRANSIT PROPERTY.
- 7 EXISTING ELECTRICAL POLE WITH OVERHEAD UTILITY LINES. PROTECT IN PLACE.
- 9 NEW RISER TO POLE BY SNOPOD. CONTRACTOR TO COORDINATE WITH SNOPOD FOR CONDUIT CONNECTION.



KEY PLAN

**JACOBS®**



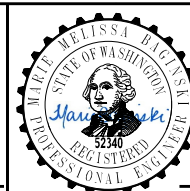
**Washington State  
Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

# SITE ELECTRICAL PLAN

SHEET  
356  
OF  
1521  
SHEETS

JOB NUMBER  
18W121



1/18/19



See Page ES02.10 for RFI 043 Response

RFI 43

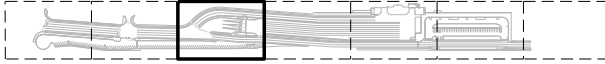
NOTES:

1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
2. SEE ES12 SERIES DRAWINGS FOR SITE COMMUNICATIONS PLANS.
3. SEE C16 SERIES DRAWINGS FOR TRAFFIC SIGNAL.
4. SEE EB02.50 FOR TOLL PLAZA ELECTRICAL PLAN.
5. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING DUCT BANK INFORMATION.
6. SEE ES10 SERIES DRAWINGS FOR CONDUIT AND CABLE SCHEDULES.
7. FOR CONDUIT CONTINUATION INTO BUILDINGS SEE EB02 SERIES DRAWINGS FOR BUILDING ELECTRICAL PLANS.

CONSTRUCTION NOTES:

1. INSTALL CONDUIT AND CONDUCTORS TO TRAFFIC SIGNAL UPS FROM WSDOT ELECTRICAL SERVICE.
2. LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.
3. EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
4. NEW WSDOT ELECTRICAL SERVICE CABINET TYPE "D". SEE WSDOT STANDARD PLAN J-10.21-00.
5. NEW CITY OF MUKILTEO ELECTRICAL SERVICE CABINET TYPE "B" MODIFIED. SEE WSDOT STANDARD PLAN J-10.20-00.
10. INSTALL CONDUIT DUCT BANK FROM TERMINAL BUILDING TO SUPERVISOR BUILDING.
11. INSTALL CONDUIT AND CONDUCTORS TO IRRIGATION CONTROLLER.
12. PROVIDE A SEPARATE SPARE 2" CONDUIT. **RFI 111 J-90.10-03**
13. SEE WSDOT STANDARD DRAWING J-90.10-02 FOR PULL BOX DETAILS WITH HEAVY DUTY LID.
15. CONDUIT PATH SHOWN IS FOR DIAGRAMMATICAL PURPOSES ONLY. BURIED POWER CONDUIT SHALL REMAIN WITH IN WSDOT RIGHT OF WAY.
21. NEW PAD MOUNTED UTILITY TRANSFORMER BY SNOPOD. CONTRACTOR TO COORDINATE WITH SNOPOD.

**RFI 136-**  
**V-C4, V-C5, V-C6, V-C11, V-C12 and**  
**V-C13 will require heavy duty lids.**  
**JB-N6, V-C2, V-C3 and V-C14 require a standard lid**



KEY PLAN

0 20 40  
SCALE 1" = 40'

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL PLAN

ES02.12

SHEET  
357  
OF  
1521  
SHEETS

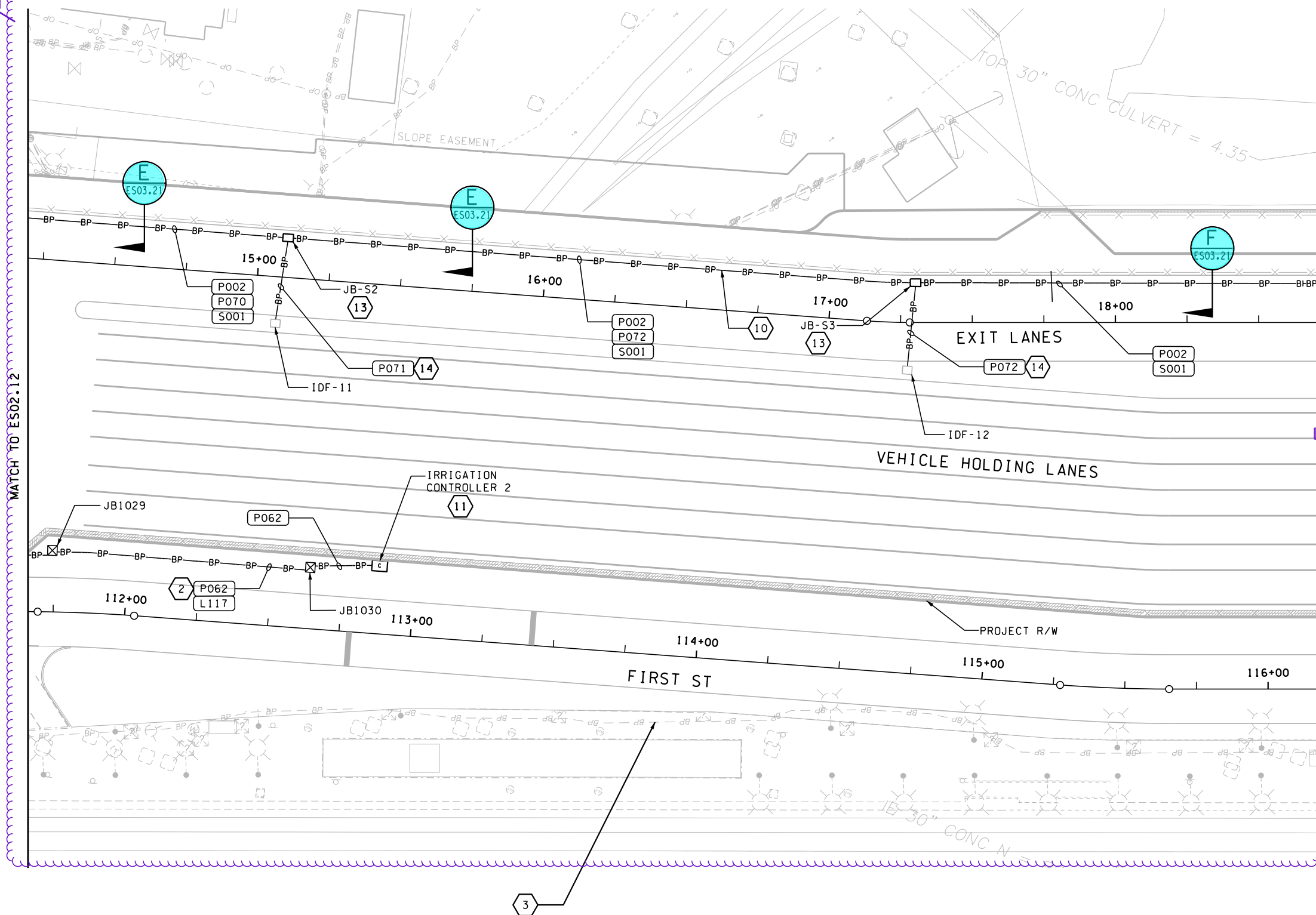
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_12.dwg				
PRINTED: 2:31:07 PM 1/16/2019	LAST PRINTED BY: slaterj			FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19				WA-2017-007-00
DESIGNED BY: J. SLATER	1/18/19			REGION NO. STATE
ENTERED BY: J. SLATER	1/18/19			10 WASH
CHECKED BY: M. BAGINSKI	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	009321



1/18/19



RFI 43



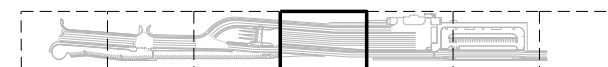
**NOTES:**

1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
2. SEE ES12 SERIES DRAWINGS FOR SITE ELECTRICAL COMMUNICATIONS PLANS.
3. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING DUCT BANK INFORMATION.
4. SEE ES10 SERIES DRAWINGS FOR CONDUIT AND CABLE SCHEDULES.

**CONSTRUCTION NOTES:**

- 2 LIGHTING AND POWER CONDUCTORS ARE ROUTED THROUGH THE SAME 2" CONDUIT.
- 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
- 10 INSTALL CONDUIT DUCT BANK AND CONDUCTORS FROM TERMINAL BUILDING TO TOLL PLAZA.
- 11 INSTALL CONDUIT AND CONDUCTORS TO IRRIGATION CONTROLLER.
- 13 SEE WSDOT STANDARD DRAWING J-90.10-02 FOR PULL BOX DETAILS WITH HEAVY DUTY LID.
- 14 INSTALL TWO 2" CONDUITS TO COMMUNICATION CABINET. SEE COMMUNICATION DRAWINGS FOR LOCATION AND INSTALLATION DETAILS.

Refer to Page ES02.10 for RFI 043  
Refer to Page ES02.12 for RFI 111



KEY PLAN

0 20 40  
SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121es02\_13.dwg

PRINTED: 2:32:32 PM 1/16/2019

SUBMITTAL DATE: 1/18/19

DESIGNED BY: J. SLATER

ENTERED BY: J. SLATER

CHECKED BY: M. BAGINSKI

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

slaterj

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

REVISION

1/18/19

DATE

BY

009321

FED.AID  
PROJ.NO.

WA-2017-007-00

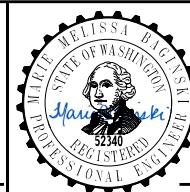
REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.



1/18/19

**JACOBS**



**Washington State  
Department of Transportation**  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL PLAN

ES02.13

SHEET  
358  
OF  
1521  
SHEETS



RFI 43

Per RFI 397 - Only 2-4" conduits are required for conduit run P004 between V-G1 and VG-2 per detail C/ES03.21

## NOTES:

1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
2. SEE ES12 SERIES DRAWINGS FOR SITE ELECTRICAL COMMUNICATIONS PLANS.
3. FOR CONDUIT CONTINUATION INTO BUILDINGS, SEE EB02 SERIES DRAWINGS FOR BUILDING ELECTRICAL PLANS.
4. SEE ES03.22 FOR ELECTRICAL VAULT DETAILS.
5. SEE EB11.02 FOR TRAFFIC CCTV SYSTEM BLOCK DIAGRAM.
6. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING ELECTRICAL DUCT BANK INFORMATION.
7. SEE ES10 SERIES DRAWINGS FOR CABLE AND CONDUIT SCHEDULE.

## CONSTRUCTION NOTES:

- 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
- 10 INSTALL CONDUIT DUCTBANK FROM MAINTENANCE BUILDING TO TOLL PLAZA.
- 14 INSTALL TWO 2" CONDUITS TO COMMUNICATION CABINET. SEE COMMUNICATION DRAWINGS FOR LOCATION AND INSTALLATION DETAILS.
- 20 CONNECT CONDUIT DUCTBANK TO EXISTING BURIED ELECTRICAL VAULT.
- 24 INSTALL CONDUIT AND CONDUCTORS TO WATER SERVICE HOT BOX, SEE SHEET C08.14.

Refer to Page ES02.10 for RFI 043  
Refer to Page ES02.12 for RFI 111

RFI 272 - WSDOT has provided the New Castle std drawing for the correct riser and lids. Remove and replace the existing riser and lids with the correct riser height and H30 bolt down hatch lids with the correct utility identification



KEY PLAN

0 20 40  
SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\JACOBS\14w121es02\_14.dwg

PRINTED: 2:34:12 PM 1/16/2019

SUBMITTAL DATE: 1/18/19

DESIGNED BY: J. SLATER

ENTERED BY: J. SLATER

CHECKED BY: M. BAGINSKI

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

LAST PRINTED BY:

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

1/18/19

CONFORMED PLANS

REVISION

1/18/19

DATE

BY

FED.AID  
PROJ.NO.

WA-2017-007-00

REGION NO. STATE

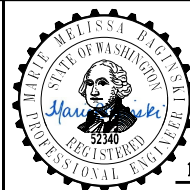
10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321



1/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525

MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL PLAN

ES02.14

SHEET

359

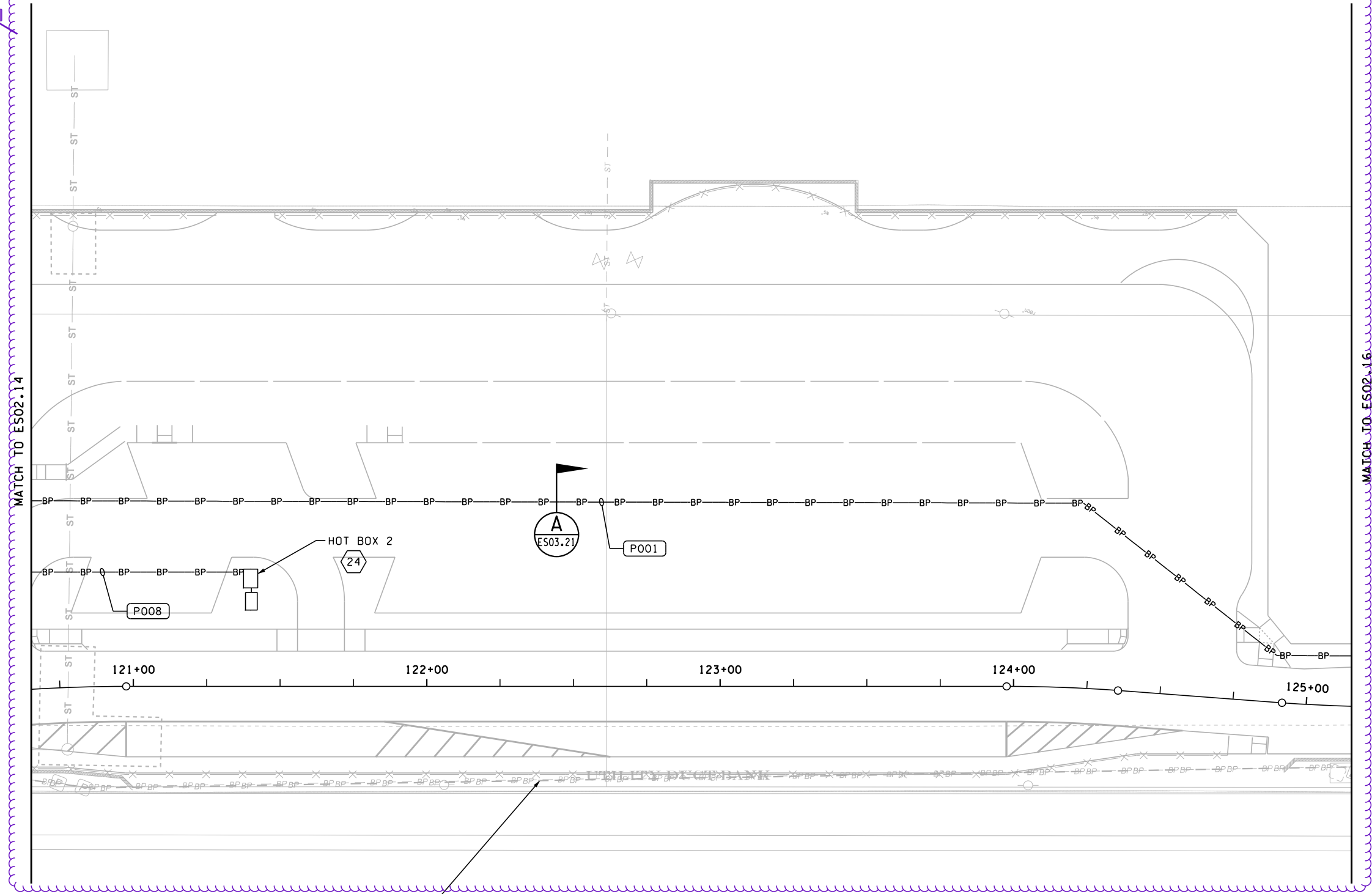
OF

1521

SHEETS



RFI 43



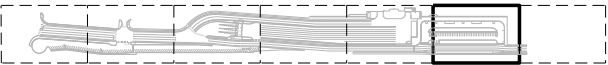
NOTES:

- 1. SEE ES08 SERIES DRAWINGS FOR SITE ILLUMINATION PLANS.
- 2. SEE PORT OF EVERETT PROJECT NO. MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING DUCT BANK INFORMATION.

CONSTRUCTION NOTES:

- 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
- 24 INSTALL CONDUIT AND CONDUCTORS AND CONDUCTORS TO WATER SERVICE HOT BOX, SEE SHEET C08.14.

Refer to ES02.10 for RFI 043 notes/  
comments



0 20 40  
SCALE 1" = 40'

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_15.dwg					
PRINTED: 3:07:03 PM 1/16/2019	LAST PRINTED BY: slaterj				FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19					WA-2017-007-00
DESIGNED BY: J. SLATER	1/18/19				REGION NO. STATE
ENTERED BY: J. SLATER	1/18/19				10 WASH
CHECKED BY: M. BAGINSKI	1/18/19				JOB NUMBER
MAR PROJ ENGR: C. TORRES					18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19		CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY	009321



1/18/19



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ELECTRICAL PLAN

ES02.15  
SHEET  
360  
OF  
1521  
SHEETS



PER RFI 136  
Per spec section 8-20.2(9-29.2(2)A)\_Vaults\_SH.docx "Snohomish County PUD (SnoPUD) vaults shall be per SnoPUD Electrical Service Requirements Manual and coordinated with SnoPUD representative..." Grounding should be installed per the Service Requirements Manual and the SnoPUD inspector's instructions.

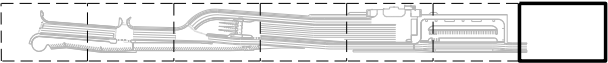
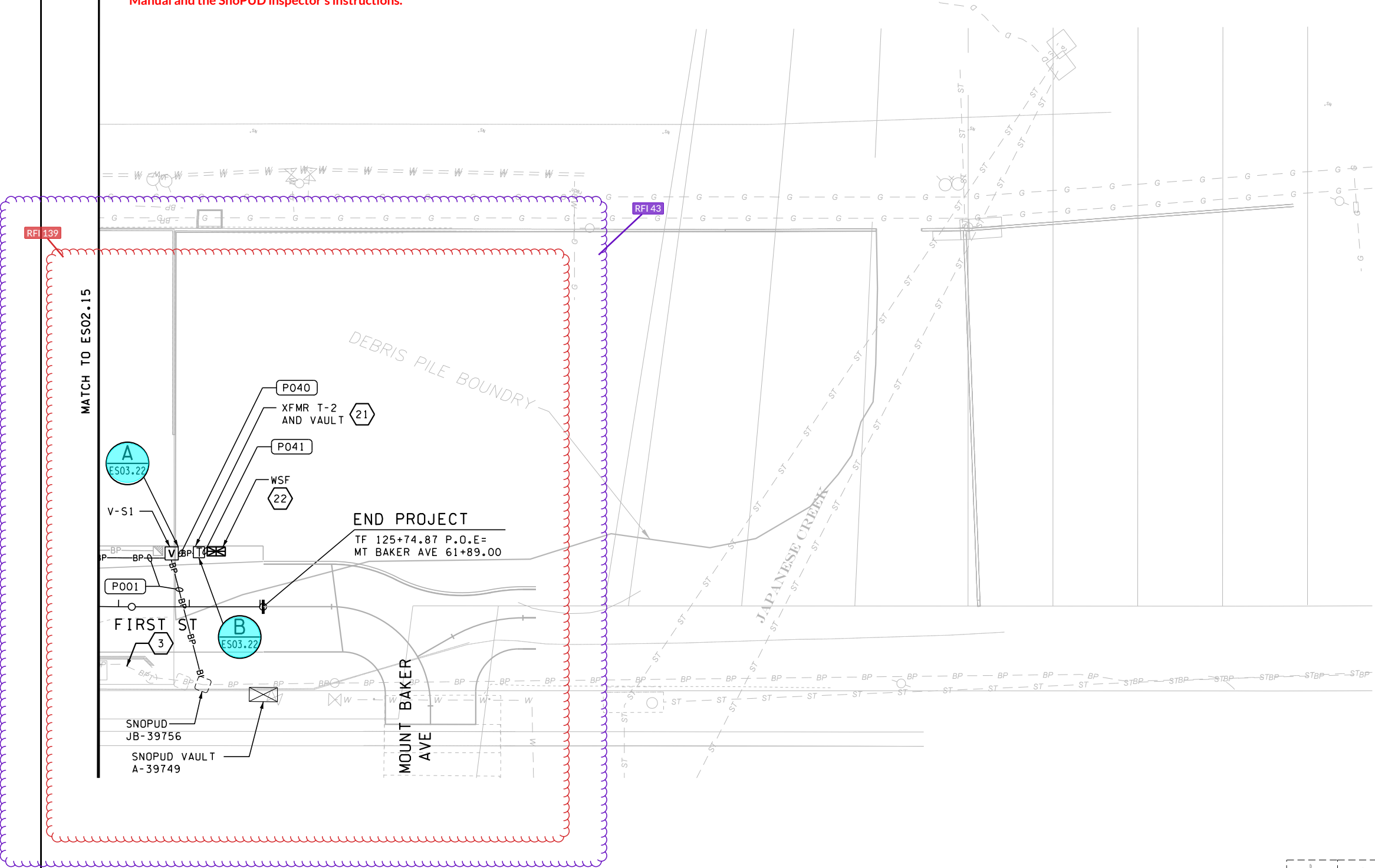
NOTES:

- SEE PORT OF EVERETT PROJECT MT-RB-2005-02 REFERENCE DRAWINGS FOR EXISTING DUCT BANK INFORMATION.
- SEE ES10 SERIES DRAWINGS FOR CABLE AND CONDUIT SCHEDULE.

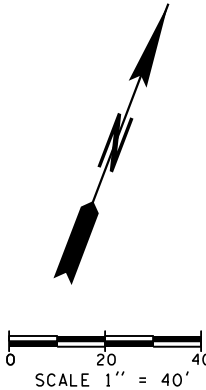
CONSTRUCTION NOTES:

- 3 EXISTING ELECTRICAL DUCT BANK, PROTECT IN PLACE.
- 21 NEW PAD MOUNTED UTILITY TRANSFORMER BY SNO PUD. CONTRACTOR TO COORDINATE WITH SNO PUD.
- 22 NEW WSF SERVICE CABINET TYPE "D". SEE WSDOT STANDARD PLAN J-10.21-00.

Refer to ES02.10 for RFI 043 notes/comments



KEY PLAN



JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION

SITE ELECTRICAL PLAN

ES02.16

SHEET  
361  
OF  
1521  
SHEETS

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es02_16.dwg				
PRINTED: 3:25:27 PM 1/16/2019	LAST PRINTED BY: slaterj			FED.AID PROJ.NO.
SUBMITTAL DATE: 1/18/19				WA-2017-007-00
DESIGNED BY: J. SLATER	1/18/19			REGION NO. STATE
ENTERED BY: J. SLATER	1/18/19			10 WASH
CHECKED BY: M. BAGINSKI	1/18/19			JOB NUMBER
MAR PROJ ENGR: C. TORRES				18W121
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19	CONTRACT NO.
ASST SECRETARY: A. SCARTON		REVISION	DATE BY	009321

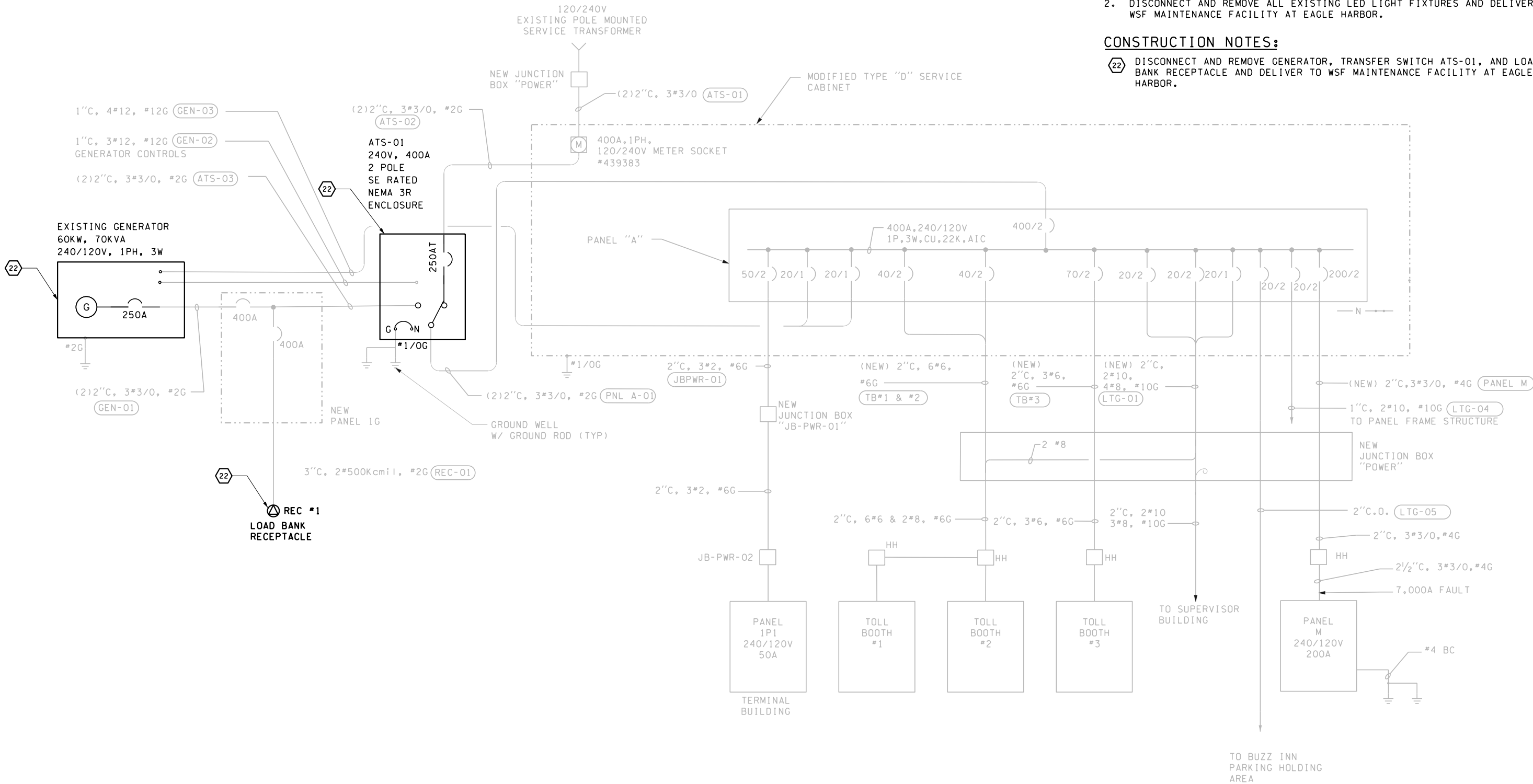


GENERAL NOTES:

1. ALL EXISTING ELECTRICAL EQUIPMENT IS TO BE REMOVED AND DISCARDED UNLESS NOTED OTHERWISE.
2. DISCONNECT AND REMOVE ALL EXISTING LED LIGHT FIXTURES AND DELIVER TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR.

CONSTRUCTION NOTES:

- 22 DISCONNECT AND REMOVE GENERATOR, TRANSFER SWITCH ATS-01, AND LOAD BANK RECEPTACLE AND DELIVER TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR.





GENERAL NOTES:

1.
- ALL EXISTING ELECTRICAL EQUIPMENT IS TO BE REMOVED AND DISCARDED UNLESS NOTED OTHERWISE. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
2.
- DISCONNECT AND REMOVE ALL EXISTING LED FIXTURES AND DELIVER TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR.

CONSTRUCTION NOTES:

- 23
- DISCONNECT, REMOVE, AND DELIVER THE FOLLOWING EQUIPMENT TO WSF MAINTENANCE FACILITY AT EAGLE HARBOR:
- VTS PLC CABINET (NOT SHOWN ON ONE LINE)

-

BRIDGE CONTROL STATION (NOT SHOWN ON ONE LINE)

-

BRIDGE AND APRON HOIST MOTOR STARTERS

-

LINE CONTROL CABINET (NOT SHOWN ON ONE LINE)

-

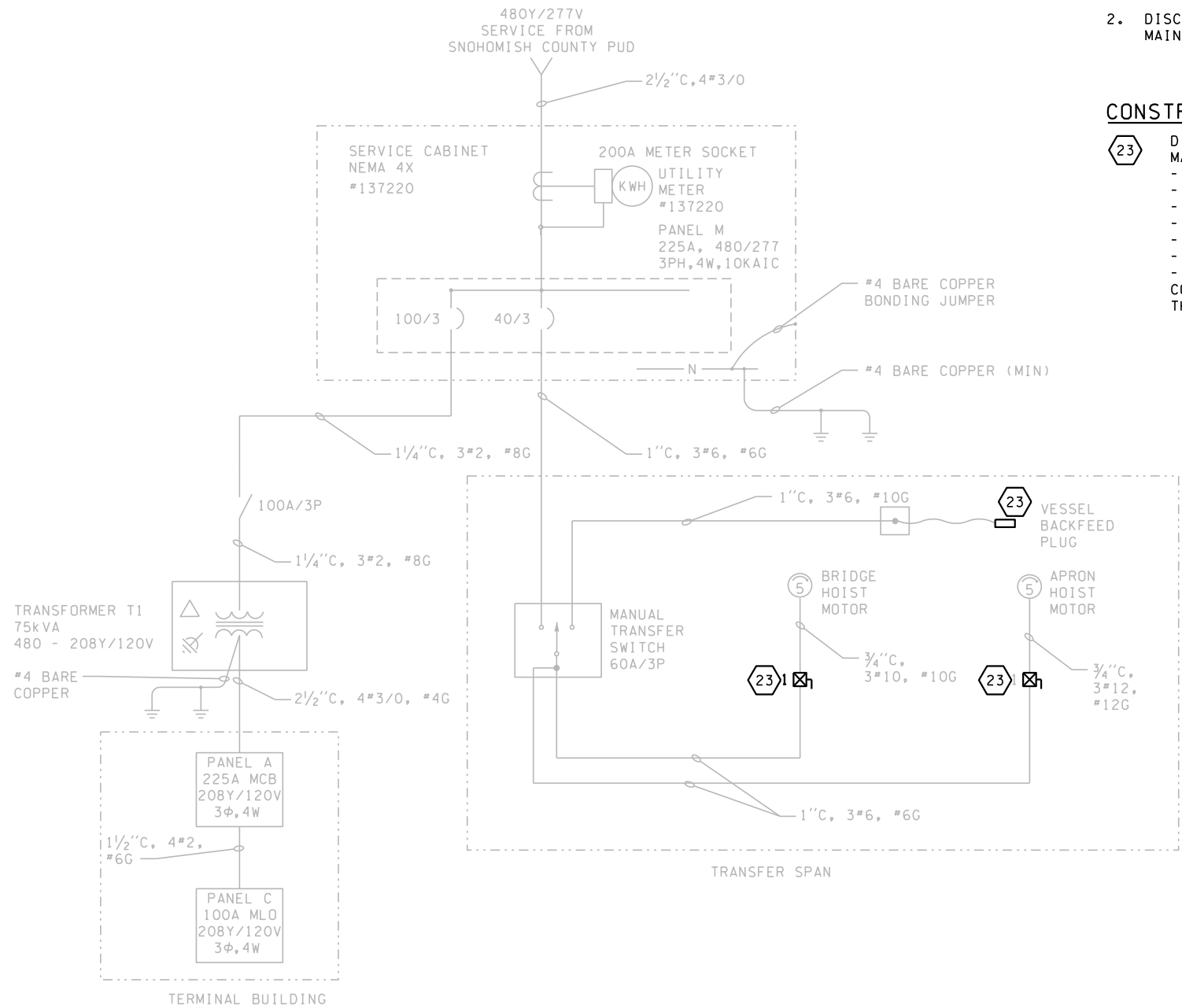
VESSEL BACKFEED PLUG

-

APRON TOGGLE SWITCH (NOT SHOWN ON ONE LINE)

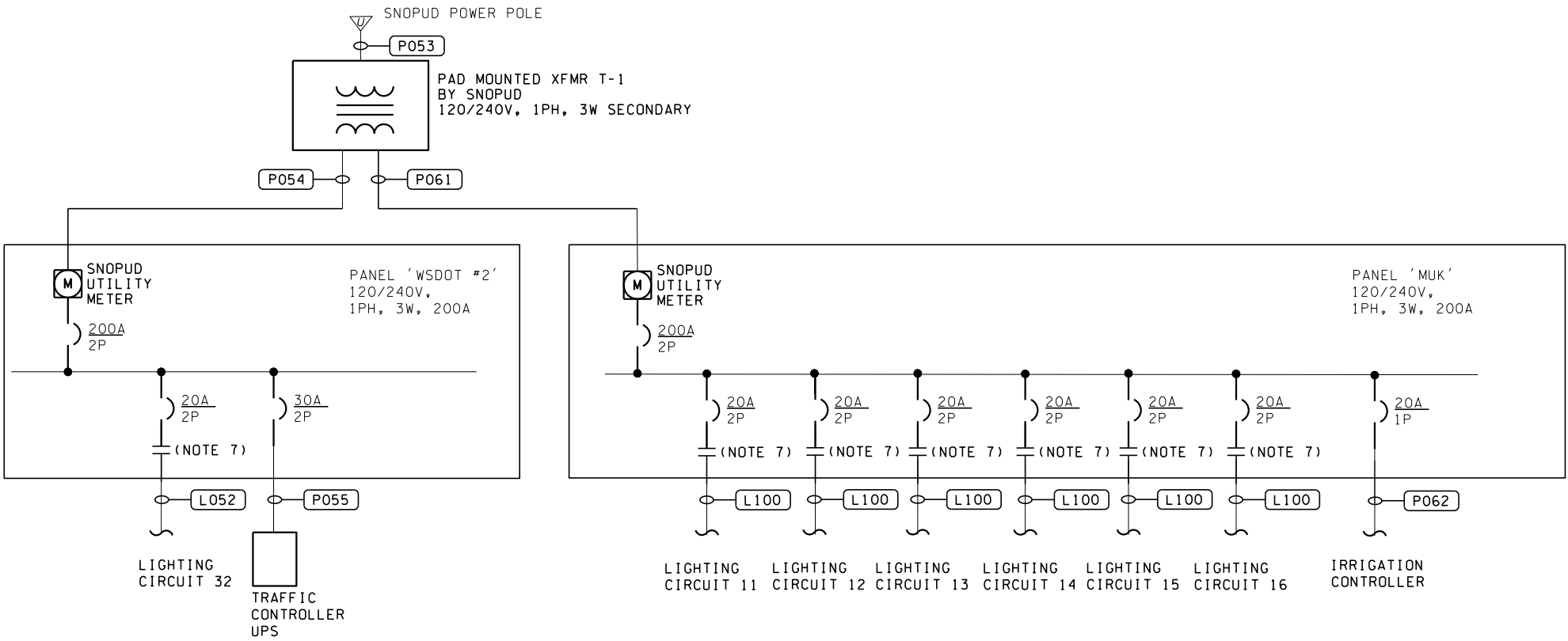
-

TRAFFIC GATE CONTROLLER AND ARM (NOT SHOWN ON ONE LINE)
- COORDINATE SITE WALKTHROUGH WITH WSF AS NEEDED TO IDENTIFY ALL THE EQUIPMENT LISTED ABOVE.



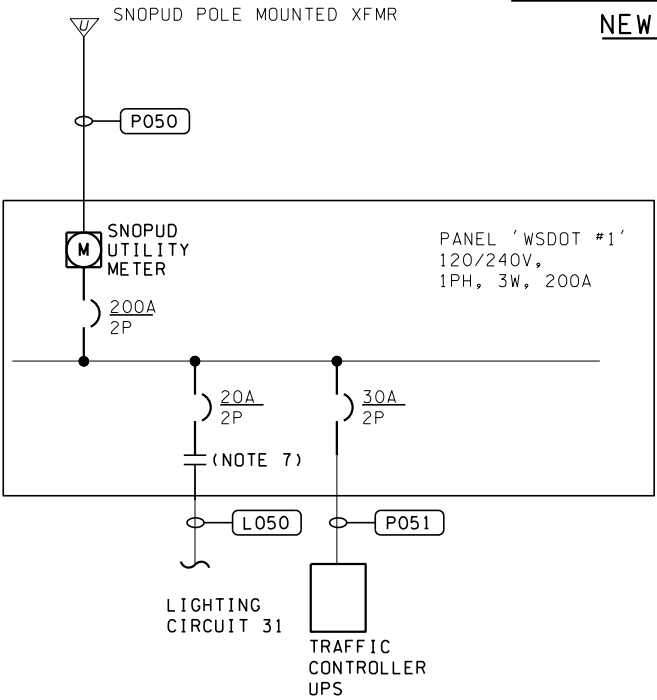
FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es03_01.dwg									
PRINTED: 3:27:40 PM 1/16/2019	LAST PRINTED BY: slaterj					FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19						WA-2017-007-00			
DESIGNED BY: J. SLATER	1/18/19					REGION NO. STATE			
ENTERED BY: J. SLATER	1/18/19					10 WASH			
CHECKED BY: M. BAGINSKI	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		009321			
							SR 525 MUKILTEO FERRY TERMINAL (PHASE 2) FERRY TERMINAL CONSTRUCTION		
							SITE ELECTRICAL ONE LINE DIAGRAM EXISTING/DEMO		
							ES03.01		
							SHEET 363 OF 1521 SHEETS		





WSDOT TOLL PLAZA  
NEW SERVICE

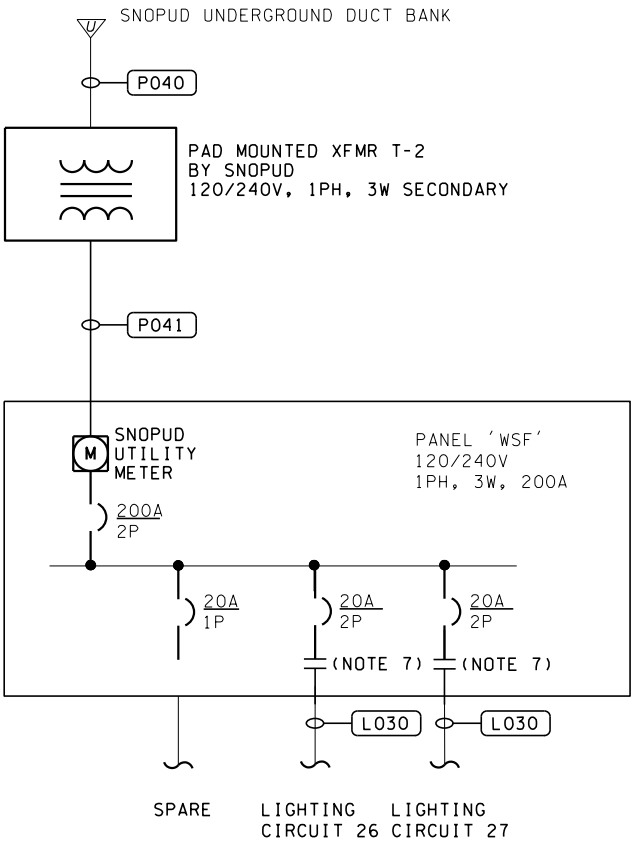
CITY OF MUKILTEO  
NEW SERVICE



WSDOT SR525  
NEW SERVICE

NOTES:

1. SEE SHEET EB00.11 FOR TERMINAL BUILDING ELECTRICAL ONE LINE. WSF NEW SERVICE INFORMATION IS SHOWN ON THAT SHEET.
2. SEE SHEET ES08.00 FOR LIGHTING CIRCUITS.
3. SEE SHEETS ES06.00 AND ES06.01 FOR COMPLETE PANEL SCHEDULES.
4. SNOPUD TO SIZE AND INSTALL TRANSFORMERS T1 AND T2. CONTRACTOR TO COORDINATE WITH SNOPUD.
5. NOT ALL CIRCUIT BREAKERS AND LOADS ON PANELBOARDS ARE SHOWN. FOR COMPLETE LIST OF ALL CIRCUIT BREAKERS AND LOADS, SEE ES06 SERIES DWG. FOR PANEL SCHEDULES.
6. SEE SHEET ES10.00 FOR CONDUIT AND CABLE SCHEDULE.
7. SEE WSDOT STANDARD PLANS FOR CONTACTOR SIZES.



WSF TRANSIT CENTER  
NEW SERVICE

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es03_10.dwg									
PRINTED: 3:28:50 PM 1/16/2019	LAST PRINTED BY: slater.j					FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19						WA-2017-007-00			
DESIGNED BY: J. SLATER	1/18/19					REGION NO. STATE			
ENTERED BY: J. SLATER	1/18/19					10 WASH			
CHECKED BY: M. BAGINSKI	1/18/19					JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH		CONFORMED PLANS	1/18/19			CONTRACT NO.			
ASST SECRETARY: A. SCARTON		REVISION	DATE	BY		009321			



1/18/19



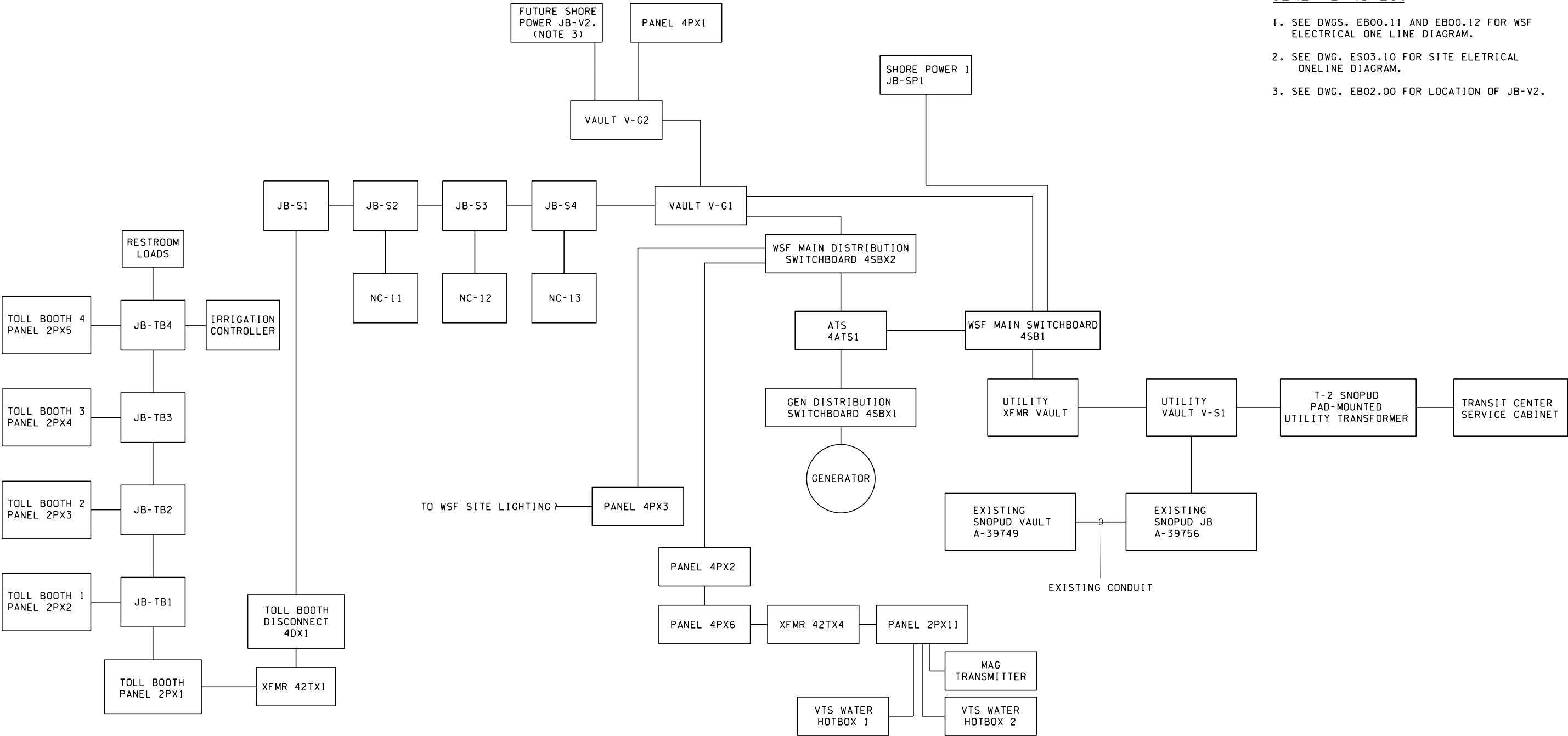
SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ELECTRICAL ONE LINE DIAGRAM

ES03.10  
SHEET  
364  
OF  
1521  
SHEETS



GENERAL NOTES:

1. SEE DWGS. EB00.11 AND EB00.12 FOR WSF ELECTRICAL ONE LINE DIAGRAM.
2. SEE DWG. ES03.10 FOR SITE ELETRICAL ONELINE DIAGRAM.
3. SEE DWG. EB02.00 FOR LOCATION OF JB-V2.



FILE NAME: WSF\Mukilteo\14W121\_FerryTermConst\CADD\JACOBS\14w121es03.20.dwg

PRINTED: 3:29:47 PM 1/16/2019

LAST PRINTED BY:

SUBMITTAL DATE: 1/18/19

slater.j

DESIGNED BY: J. SLATER

1/18/19

ENTERED BY: J. SLATER

1/18/19

CHECKED BY: M. BAGINSKI

1/18/19

MAR PROJ ENGR: C. TORRES

DIR TERM ENGR: N. MCINTOSH

ASST SECRETARY: A. SCARTON

CONFORMED PLANS

REVISION

1/18/19

DATE

BY

FED.AID

PROJ.NO.

WA-2017-007-00

REGION NO. STATE

10 WASH

JOB NUMBER

18W121

CONTRACT NO.

009321



1/18/19

JACOBS



Washington State  
Department of Transportation  
WASHINGTON STATE FERRIES

SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE POWER DISTRIBUTION  
BLOCK DIAGRAM

ES03.20

SHEET

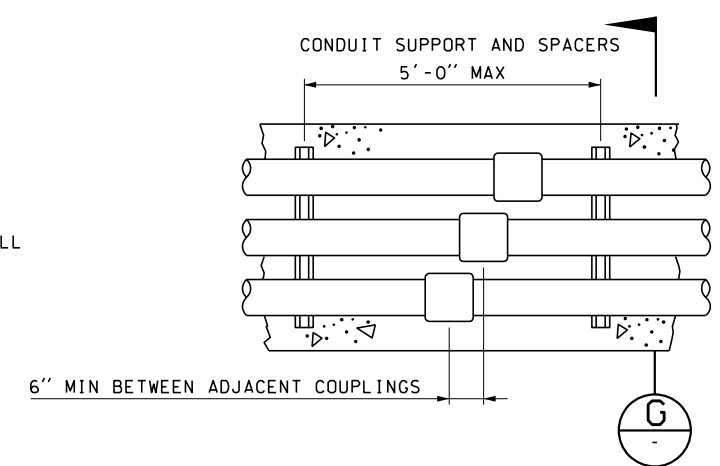
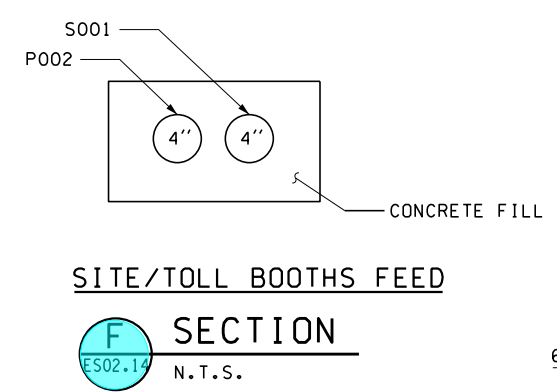
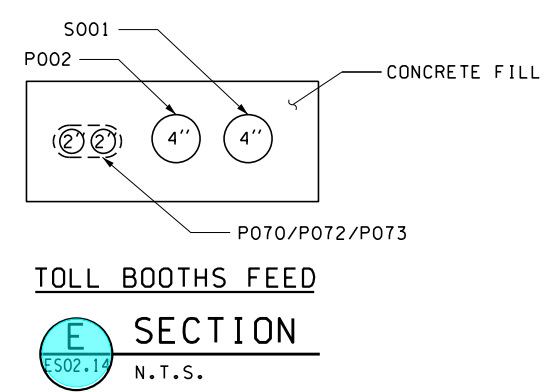
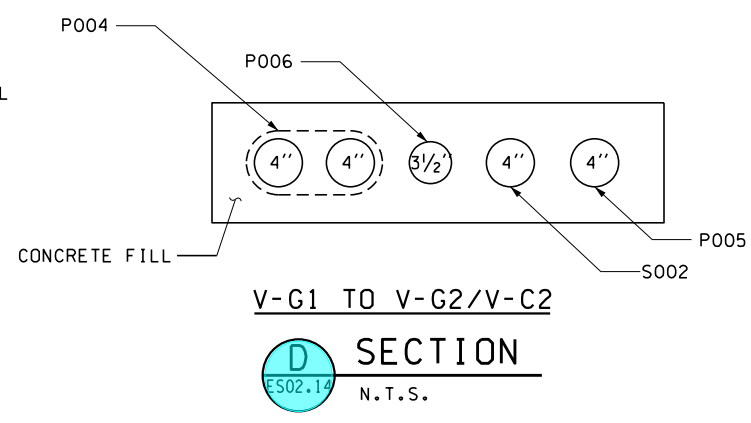
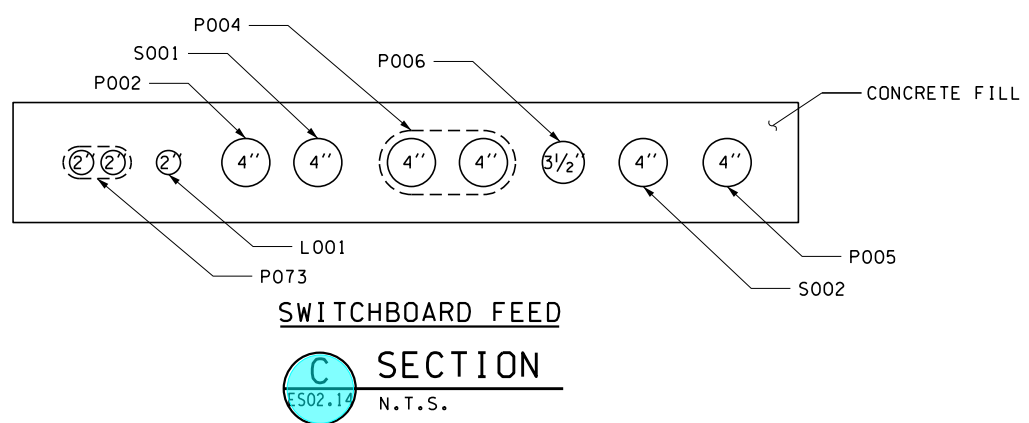
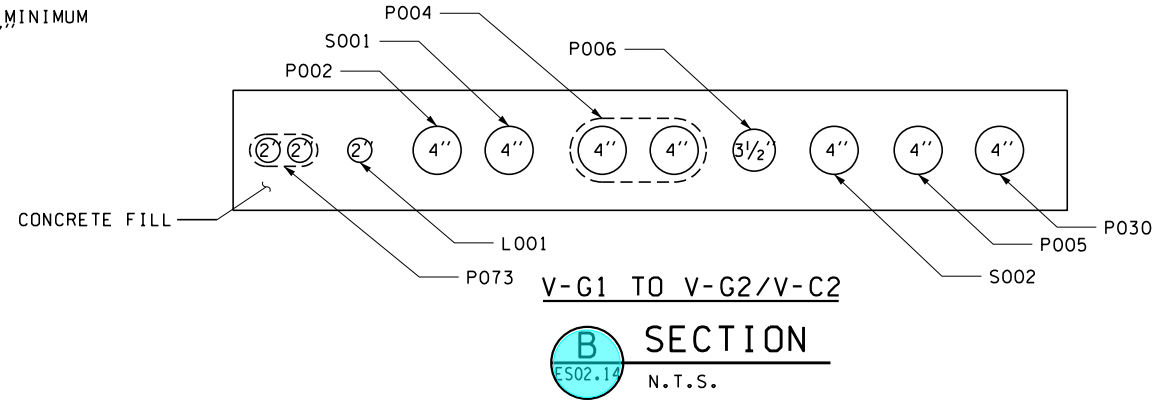
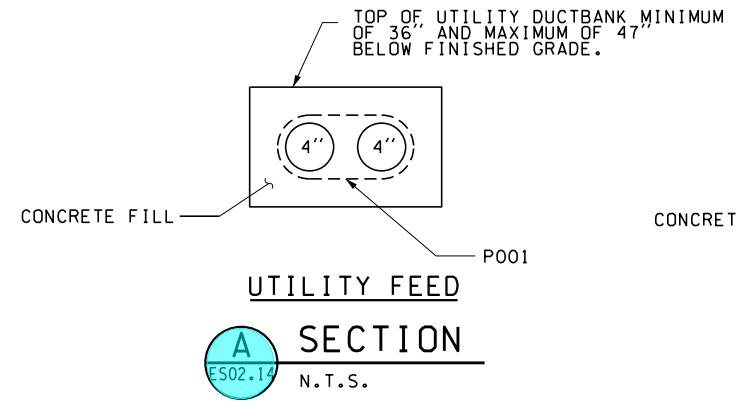
365

OF

1521

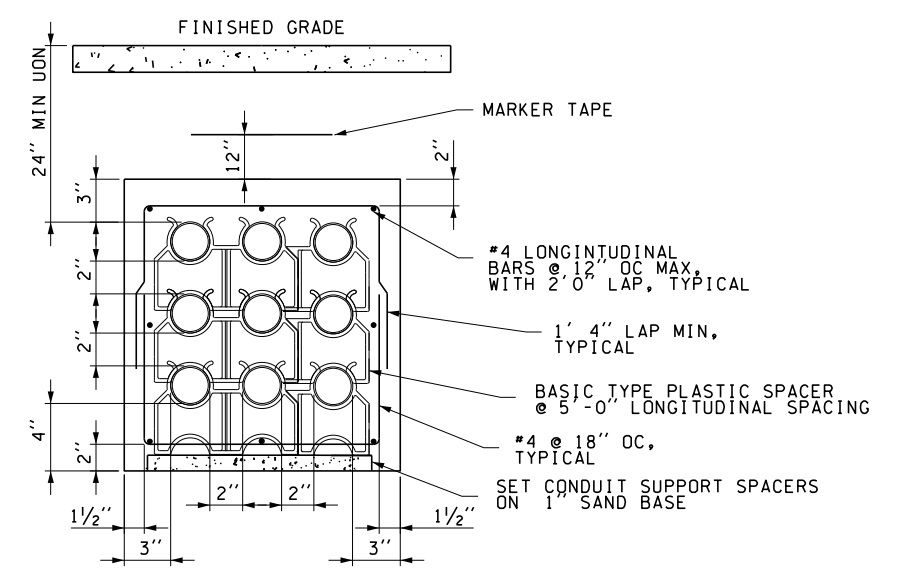
SHEETS





**NOTES:**

1. TOP OF CONDUIT MINIMUM OF 24" BELOW FINISHED GRADE UNLESS OTHERWISE NOTED.
2. CONDUIT SIZE AS SPECIFIED IN PLAN. CONDUIT SPACING TYPICAL FOR ALL CONDUIT DUCT BANKS.
3. ALL DIMENSIONS MINIMUM UNLESS OTHERWISE NOTED.
4. SEE COMMUNICATION PLANS FOR COMMUNICATION CONDUIT DETAILS.
5. SEE SECURITY PLANS FOR SECURITY CONDUIT DETAILS.
6. PROVIDE 12" SEPARATION BETWEEN POWER AND COMM CONDUITS.
7. ALL CONDUIT DUCT BANKS TO BE REINFORCED PER TYPICAL DETAIL.
8. CONTRACTOR TO TRANSITION FROM VAULT/JUNCTION BOX CONFIGURATION TO DUCTBANK CONFIGURATION SHOWN.
9. UNDER SECTION "C" RACEWAY TAG P070 CAN ALSO BE RACEWAY P071, P072, P073, P074, OR P075. REFER TO SITE ELECTRICAL PLAN SHEETS BURIED POWER DUCTBANK ROUTING FOR THE ACTUAL RACEWAY NUMBER FOR EACH PORTION OF THE BURIED POWER DUCTBANK.

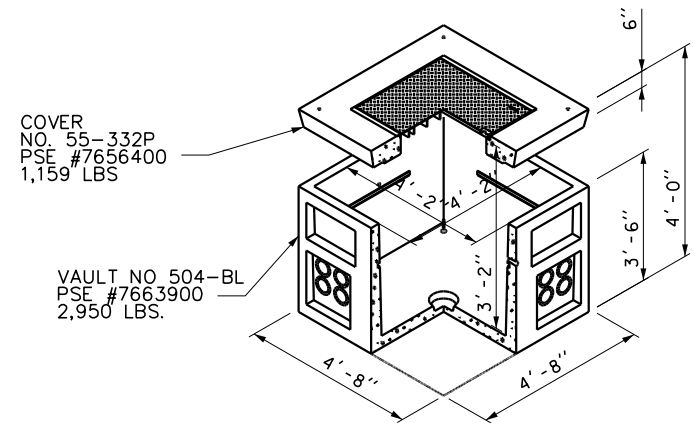


**TYPICAL DUCTBANK CONFIGURATION**

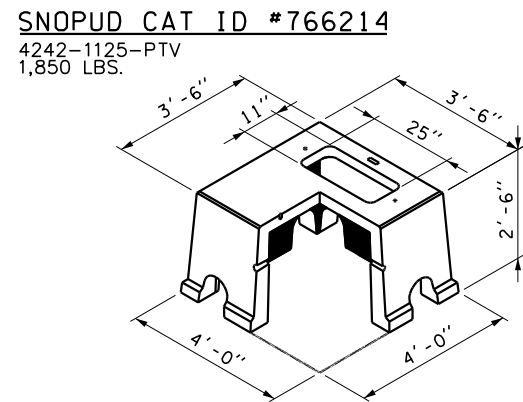
**G SECTION**

N.T.S.



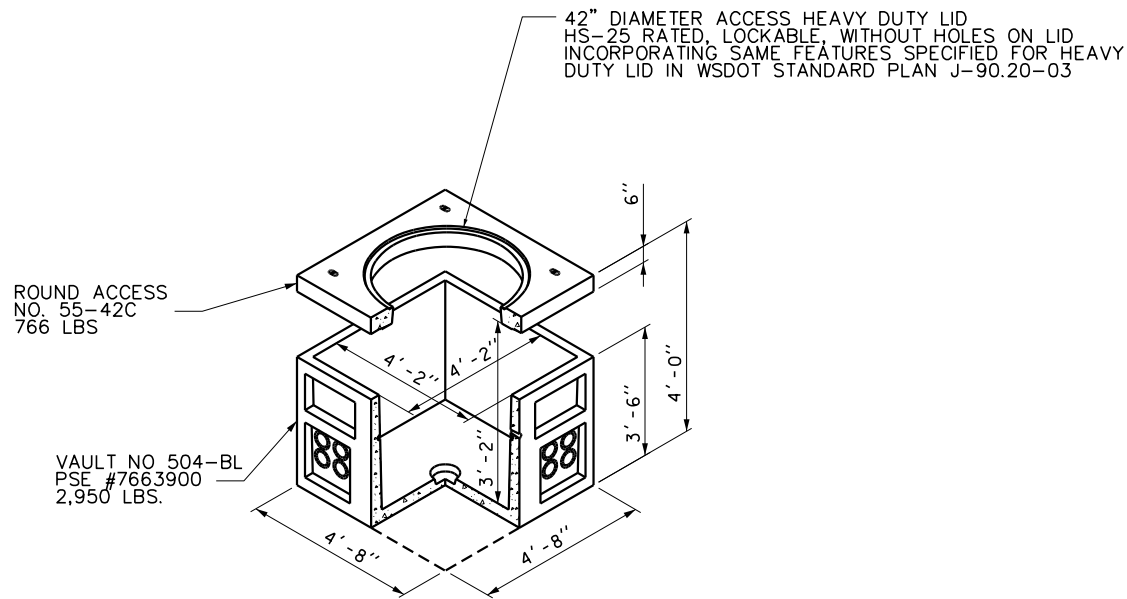


**A** SNOPUD ELECTRICAL VAULT  
V-S1 (IN SIDEWALK)



**B** SNOPUD TRANSFORMER  
VAULT T-2

- NOTES**
1. SEE ES02 SERIES DRAWINGS FOR VAULT LOCATIONS.
  2. CONTRACTOR TO SUPPLY AND INSTALL ALL VAULTS INCLUDING SNOPUD VAULTS.



**C** SITE ELECTRICAL VAULT  
V-G1 (IN ROADWAY)

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\14w121es03.22.dlv									
PRINTED: 3:32:15 PM 1/16/2019		LAST PRINTED BY:				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		slaterj				WA-2017-007-00			
DESIGNED BY: J. SLATER		1/18/19				REGION NO. STATE			
ENTERED BY: J. SLATER		1/18/19				10 WASH			
CHECKED BY: M. BAGINSKI		1/18/19				JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19			
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY	
						CONTRACT NO.		009321	

STATE OF WASHINGTON

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

MISSISSIPPI

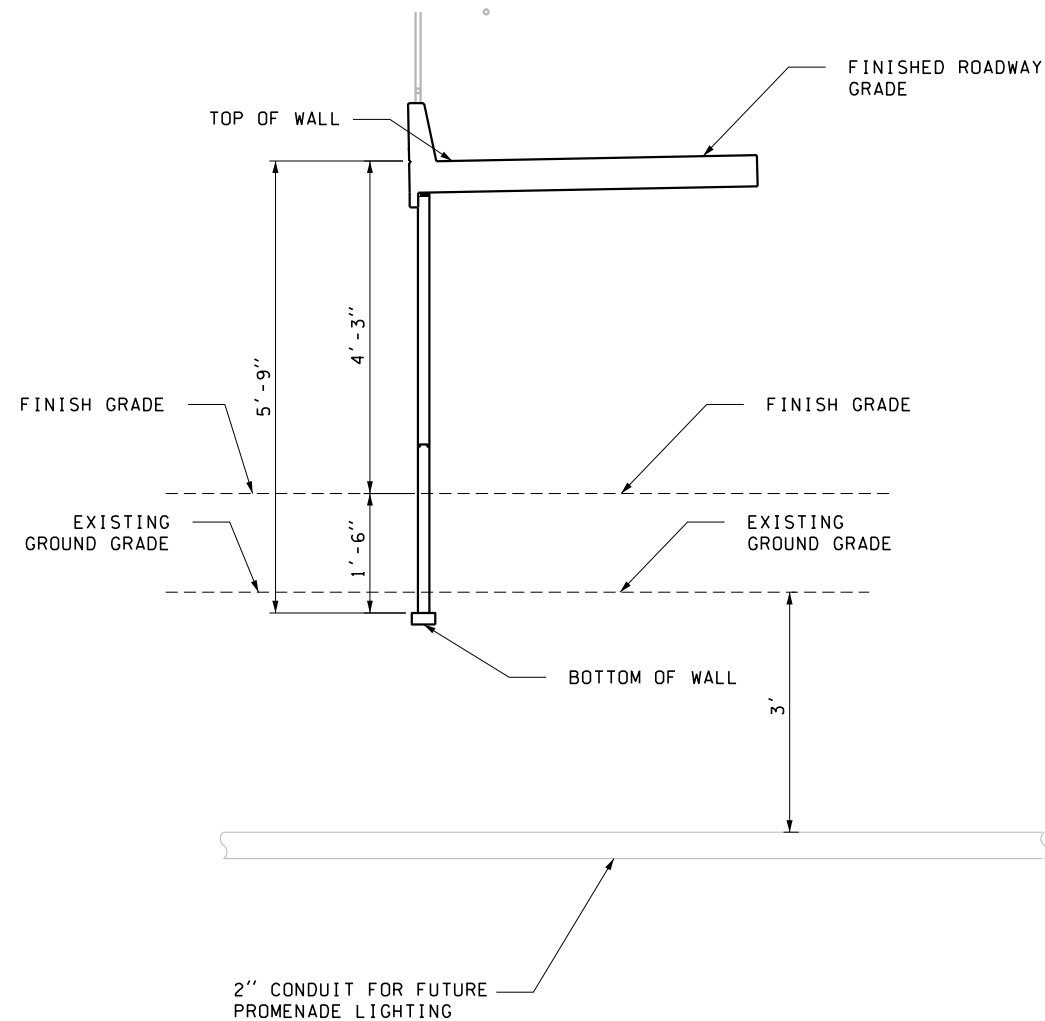
MISSISSIPPI

MISSISSIPPI

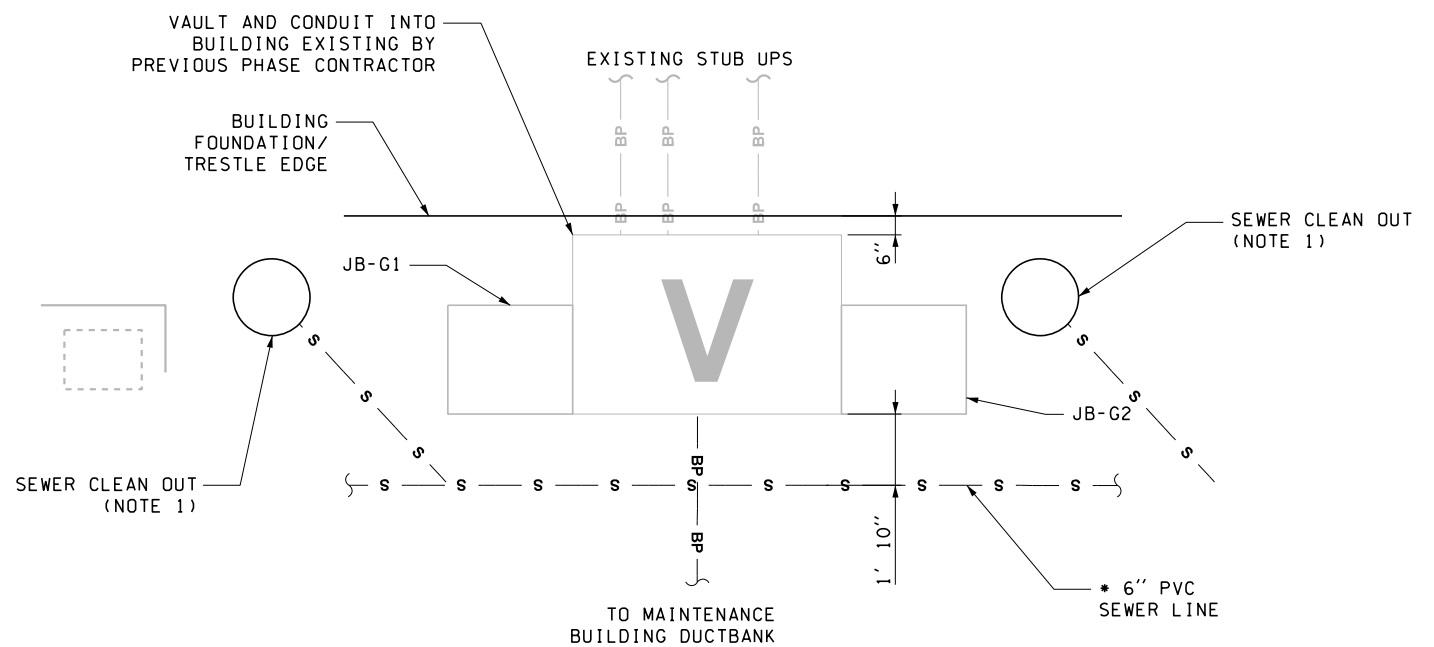
MISSISSIPPI

MISSISSIPPI





**A SECTION**  
N.T.S.



**1 VAULT V-G2**  
N.T.S. NOTE 1: COORDINATE WITH WASTEWATER CONTRACTOR

FILE NAME: WSF\Mukilteo\14W121_FerryTermConst\CADD\JACOBS\ 14w121es03_23.dwg									
PRINTED: 3:34:03 PM 1/16/2019		LAST PRINTED BY: slaterj				FED.AID PROJ.NO.			
SUBMITTAL DATE: 1/18/19		1/18/19				WA-2017-007-00			
DESIGNED BY: J. SLATER		1/18/19				REGION NO. STATE			
ENTERED BY: J. SLATER		1/18/19				10 WASH			
CHECKED BY: M. BAGINSKI		1/18/19				JOB NUMBER			
MAR PROJ ENGR: C. TORRES						18W121			
DIR TERM ENGR: N. MCINTOSH				CONFORMED PLANS		1/18/19			
ASST SECRETARY: A. SCARTON				REVISION		DATE		BY	
						CONTRACT NO.		009321	



SR 525  
MUKILTEO FERRY TERMINAL (PHASE 2)  
FERRY TERMINAL CONSTRUCTION  
SITE ELECTRICAL SECTION  
DETAILS

ES03.23  
SHEET  
368  
OF  
1521  
SHEETS