

# PORT OF TACOMA

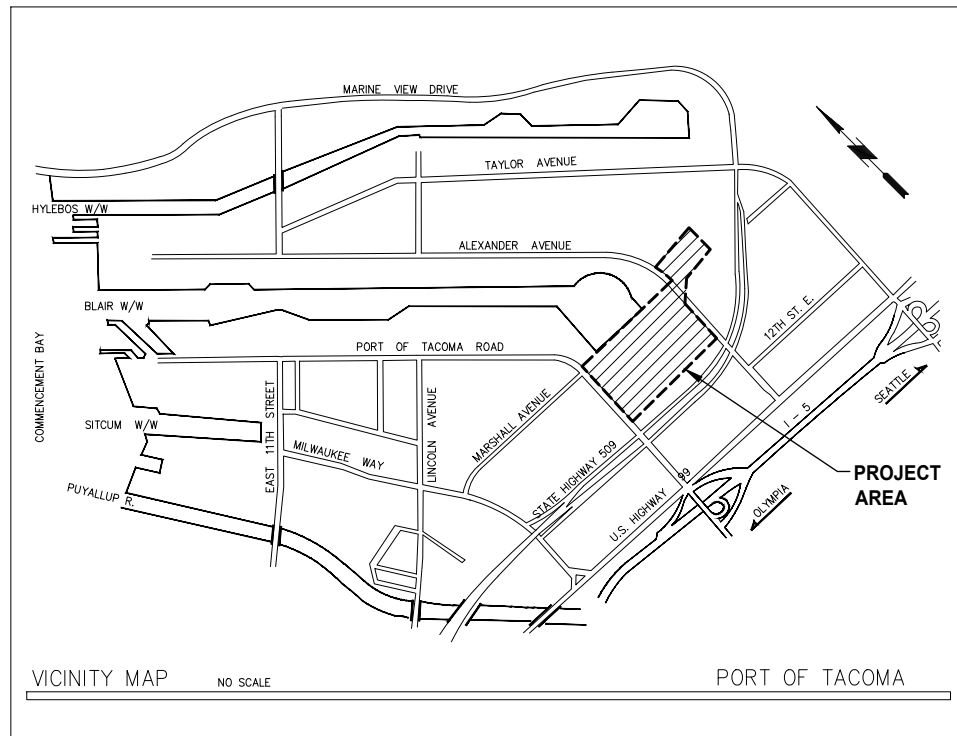
## PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 PROJECT NO. 201038.01 CONTRACT NO. 071685

### PORT COMMISSIONERS:

JOHN MCCARTHY  
DICK MARZANO  
DEANNA KELLER  
DON MEYER  
KRISTIN ANG

### PORT STAFF:

ERIC JOHNSON  
Executive Director  
  
THAIS HOWARD, PE  
Director of Engineering  
  
BRETT OZOLIN, PE  
Project Manager




DRAWING LIST		
SHEET DESIGNATION	SHEET #	SHEET TITLE
G1.01	1	COVER PAGE & SHEET INDEX
G1.02	2	GENERAL NOTES, ABBREVIATIONS & LEGEND
G1.03	3	TESC DETAILS
C0.00	4	SITE PLAN
C1.01	5	ENLARGED UTILITIES PLAN 01
C1.02	6	ENLARGED UTILITIES PLAN 02
C1.03	7	ENLARGED UTILITIES PLAN 03
C1.04	8	ENLARGED UTILITIES PLAN 04
C1.05	9	ENLARGED UTILITIES PLAN 05
C2.01	10	SITE DETAILS 01
C2.02	11	SITE DETAILS 02
C2.03	12	SITE DETAILS 03
C2.04	13	SITE DETAILS 04
C2.05	14	SITE DETAILS 05
C2.06	15	SITE DETAILS 06
C2.07	16	PAVING SECTIONS


CONSULTANT:




600 UNIVERSITY STREET  
SUITE 610  
SEATTLE, WA 98101  
(206) 622-0222



P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841



600 UNIVERSITY STREET, SUITE 610  
SEATTLE, WA 98101  
(206) 622-0222



4/6/22

APPROVED:

A. PATTERSON 4/6/22  
CHECKED BY: DATE

T. HOWARD  
DIRECTOR ENG. DATE: 4/6/22  
PROJECT ENGR. DATE: 4/6/22  
PRINTED BY: cgreene Apr 06, 2022  
PORT ADDRESS: ONE SITCUM PLAZA  
TACOMA, WA 98401-1837

PIERCE COUNTY TERMINAL  
OPERATIONAL PAVEMENT REPAIRS 2022  
COVER PAGE & SHEET INDEX

6635  
G1.01  
SHEET 1 OF 16

CONT/CONS: 071685  
M. ID: 201038.01  
PHASE: BID SET

TOWNSHIP: 20N  
RANGE: 3E  
SECTION: 3E  
DATE-HRZ: NAD83/2007  
VERT: MLLW  
PARCEL: [blank]  
DRAWING SCALE: AS NOTED

MARK: REVISION: BY: DATE: APPR: DATE:

GENERAL NOTES:

1.

THE PLANS INDICATE TYPICAL REPAIR AND REHABILITATION OF EXISTING YARD STRUCTURES AND SHALL BE CONSIDERED TO BE REFERENCE INFORMATION FOR THE PURPOSES OF BID PREPARATION OF THE UNIT PRICE PAY ITEMS. WORK OF THIS CONTRACT WILL BE AUTHORIZED ON A TASK BY TASK BASIS AND MAY VARY FROM THE WORK REPRESENTED ON THE PLANS. THE LOCATIONS AND LIMITS OF WORK IS SUBJECT TO FIELD DETERMINATION BY THE ENGINEER AND AUTHORIZATION ON A TASK BY TASK BASIS.
2.

THE CONTRACTOR SHALL PERFORM ALL WORK IN SUCH A MANNER AS TO NOT IMPACT TERMINAL OPERATIONS. THE CONTRACTOR SHALL COORDINATE WITH THE PORT AND SCHEDULE WORK TO MINIMIZE DISRUPTION, STRICT COMPLIANCE WITH THE SPECIFIED WORK HOURS AND DAYS WILL BE ENFORCED. SEE SPECIFICATIONS FOR CONSTRUCTION LIMITATIONS AND RELATED INFORMATION.
3.

THE CONTRACTOR SHALL COORDINATE THE WORK OF ALL TRADES. CONTRACTOR SHALL PROVIDE TIMELY NOTIFICATION TO THE ENGINEER FOR ALL ITEMS OF WORK REQUIRING COORDINATION.
4.

THE CONTRACTOR SHALL PROVIDE ALL NOTICES AND PERMITS REQUIRED FOR THIS WORK.
5.

IF CLASSIFIED HAZARDOUS MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR IS DIRECTED TO STOP WORK IN THE EFFECTED AREA IMMEDIATELY AND NOTIFY THE ENGINEER.
6.

CONTRACTOR SHALL OBTAIN APPROVAL OF THE ENGINEER PRIOR TO DISCONNECTING OR INTERRUPTING THE OPERATION OF ANY EXISTING UTILITY OR SYSTEM. CONTRACTOR SHALL REQUEST PERMISSION FROM THE ENGINEER A MINIMUM OF TWO (2) DAYS PRIOR TO DISRUPTING SAID UTILITY.
7.

MODIFICATIONS TO EXISTING STRUCTURES SHALL MAINTAIN A LOAD CAPACITY OF 125 KIPS (REFER TO REFERENCE DOCUMENT PCT REDEVELOPMENT CONSTRUCTION SHEET S1.1 PROVIDED BY THE PORT).

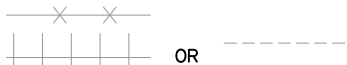
ABBREVIATIONS

'	FEET
"	INCHES
⊙	AT
ACP	ASPHALT CONCRETE PAVEMENT
APPROX	APPROXIMATE
BLDG	BUILDING
CB	CATCH BASIN
CL	CLASS
COMM	COMMUNICATIONS
CONC	CONCRETE
CPV	CRANE POWER VAULT
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CTR	CENTER
CV	COMMUNICATIONS VAULT
CY	CUBIC YARD
DIA, ∅	DIAMETER
DIM	DIMENSION
ELEC	ELECTRICAL
ELEV	ELEVATION
EOP	EDGE OF PAVEMENT
EQUIP	EQUIPMENT
ESC	EROSION AND SEDIMENTATION CONTROL
EW	EACH WAY
EX	EXISTING
FOV	CRANE FIBER OPTIC COMMUNICATIONS VAULT
FT	FEET
FV	FIELD VERIFY
FW	FIRE WATER
HMA	HOT MIX ASPHALT
HORIZ	HORIZONTAL
IE	INVERT ELEVATION
KIPS	THOUSANDS OF POUNDS
LF	LINEAR FEET
MAINT	MAINTENANCE
MAX	MAXIMUM
MFR's	MANUFACTURERS
MH	MANHOLE
MIN	MINIMUM
MLLW	MEAN LOWER LOW WATER
N	NORTH OR NORTHING
NA	NOT APPLICABLE
NGAS	NATURAL GAS
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
OWS	OIL / WATER SEPARATOR
PCT	PIERCE COUNTY TERMINAL
PG	PERFORMANCE GRADE
POT	PORT OF TACOMA
PV	POWER VAULT
PVC	POLYVINYL CHLORIDE
PVMT	PAVEMENT

REINF REQ'D	REINFORCED REQUIRED
ROW	RIGHT OF WAY (CITY OF TACOMA)
RR	RAIL ROAD
SD	STORM DRAINAGE
SIM	SIMILAR
SS	SANITARY SEWER
STD	STANDARD
SV	SITE COMMUNICATIONS VAULT
TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VL	VAULT
VLV	VALVE

LEGEND

EXISTING



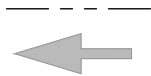
DESCRIPTION

FENCE

RAILROAD TRACKS

ROW/PROPERTY LINE.

TRAFFIC FLOW  
DIRECTIONAL ARROW  
(REFERENCE ONLY)



POLE

TYPE 1L CB



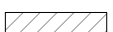
TYPE 2 CB



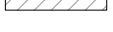
POWER / COMMUNICATION VAULT



ACP



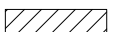
GRAVEL BASE



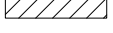
SUBGRADE



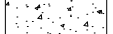
NEW



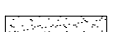
ACP



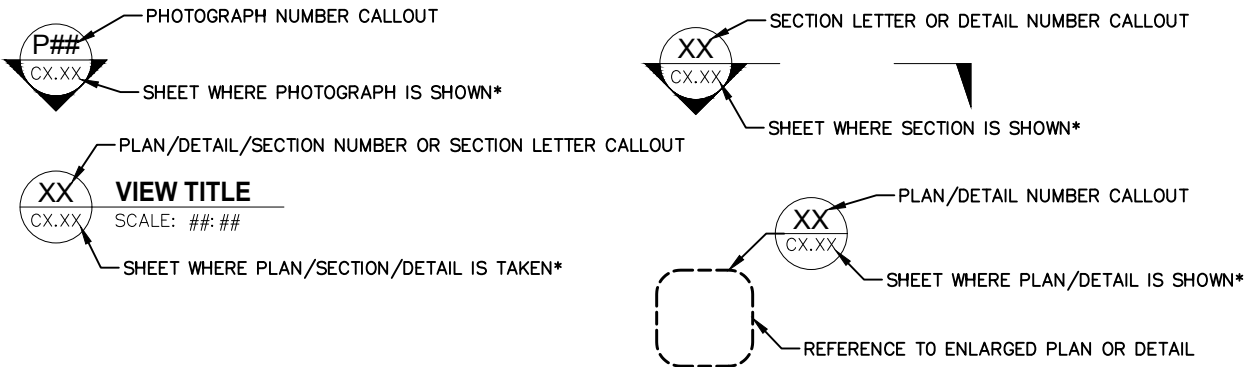
CAST-IN-PLACE CONC



FLOWABLE FILL BASE COURSE



REFERENCE CALLOUTS



\*NOTE: DASH (--) INDICATES SECTION OR DETAIL FROM SAME SHEET

ONE-CALL at 1-800-424-5555

UNDERGROUND UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION. THERE IS NO GUARANTEE THAT ALL UTILITY LINES ARE SHOWN, OR THAT THE LOCATION, SIZE, AND MATERIAL IS ACCURATE. THE CONTRACTOR SHALL UNCOVER ALL INDICATED PIPING WHERE CROSSING, INTERFERENCES, OR CONNECTIONS OCCUR PRIOR TO TRENCHING OR EXCAVATION FOR ANY PIPE OR STRUCTURE. TO DETERMINE ACTUAL LOCATIONS, SIZE, AND MATERIAL. THE CONTRACTOR SHALL MAKE THE APPROPRIATE PROVISION FOR PROTECTION OF SAID FACILITIES. THE CONTRACTOR SHALL NOTIFY ONE CALL AT 1-800-424-5555 AND ARRANGE FOR FIELD LOCATION OF EXISTING FACILITIES BEFORE CONSTRUCTION.

P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841

600 UNIVERSITY STREET, SUITE 610  
SEATTLE, WA 98101  
(206) 462-0222

A. PATTERSON 4/6/22

CHECKED BY DATE

T. HOWARD

DIRECTOR ENG. DATE 4/6/22

PRINTED BY: S. GRAY

PROJ. ENGR DATE 4/6/22

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

PIERCE COUNTY TERMINAL

OPERATIONAL PAVEMENT REPAIRS 2022

GENERAL NOTES, ABBREVIATIONS & LEGEND

6635

G1.02

SHEET 2 OF 16

CONT./CONS: 071685

TOWNSHIP: 20N

RANGE: 3E

SECTION: MLLW

M. ID: 201038.01

DAT-HRZ: NAD83/2007

VERT: MLLW

DRAWING SCALE: AS NOTED

PHASE: BID SET

PARCEL:

MARK:

REVISION:

BY:

DATE:

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

TEMPORARY EROSION & SEDIMENT CONTROL (TESC) NOTES:

- A. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS SECTION 01 57 13.
- B. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED TO PREVENT ERODED SEDIMENT AND TURBID WATER FROM ENTERING THE STORM DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES DURING AND FOLLOWING CONSTRUCTION UNTIL ENTIRE SITE HAS BEEN STABILIZED.
- C. CERTAIN BEST MANAGEMENT PRACTICES (BMPs) THAT MAY BE APPLICABLE TO THE CONTRACTOR'S IMPLEMENTATION OF THE WORK ARE PRESENTED IN THE WASHINGTON STATE DEPARTMENT OF ECOLOGY 2012 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, AS AMENDED IN DECEMBER 2014, INCLUDING VOLUME 2 "STORMWATER MANAGEMENT" AND INCLUDE:

BMP C103: HIGH VISIBILITY FENCE

BMP C105: STABILIZED CONSTRUCTION ENTRANCE/EXIT

BMP C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION

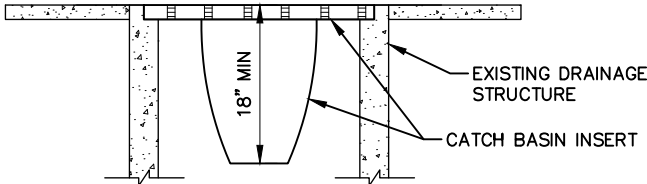
BMP C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION

BMP C153: MATERIAL DELIVERY, STORAGE, AND CONTAINMENT

BMP C154: CONCRETE WASHOUT AREA

BMP C160: CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

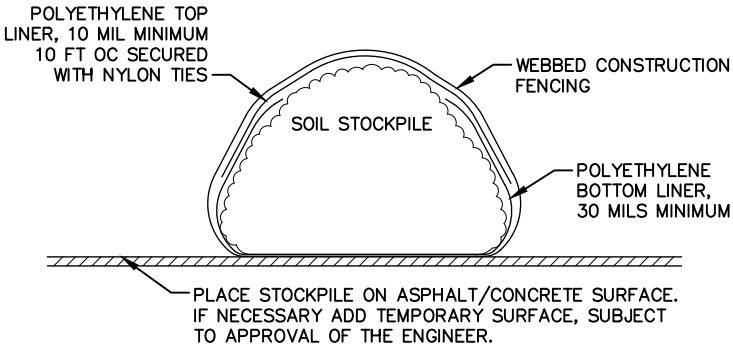
BMP C220: STORM DRAIN INLET PROTECTION
- D. IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, THE SURFACE(S) SHALL BE CLEANED IMMEDIATELY USING A METHOD ACCEPTABLE TO THE ENGINEER. IF A SWEEPER IS USED, IT SHALL BE A REGENERATIVE AIR SWEEPER.
- E. THE CONTRACTOR SHALL MAINTAIN, REPLACE, AND UPGRADE TESC FACILITIES UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED. IF EROSION CONTROL FACILITIES FAIL, THEY SHALL BE REPAIRED OR REPLACED IMMEDIATELY.
- F. TESC FACILITIES SHALL BE PROVIDED IN CONJUNCTION WITH CLEARING AND GRADING AND/OR DEMOLITION ACTIVITIES, AND IN SUCH A MANNER AS TO ENSURE THAT ERODED SEDIMENT OR TURBID WATER DOES NOT ENTER THE DRAINAGE SYSTEM, ROADWAYS, OR VIOLATE APPLICABLE WATER STANDARDS.
- G. AS CONSTRUCTION PROGRESSES AND UNEXPECTED CONDITIONS AND/OR SEASONAL CONDITIONS DICTATE, THE CONTRACTOR SHALL PROVIDE ADDITIONAL EROSION AND SEDIMENTATION CONTROL FACILITIES TO ENSURE COMPLETE SILTATION CONTROL ON THE PROJECT SITE.
- H. ADDRESS ANY NEW CONDITIONS AND PROVIDE ADDITIONAL FACILITIES AS MAY BE NEEDED TO PROTECT ADJACENT PROPERTIES AND WATER QUALITY OF THE RECEIVING DRAINAGE SYSTEM AND AS REQUIRED BY THE ENGINEER.
- I. CATCH BASIN CLEANING SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM PIPE OR SYSTEM.
- J. THE CONTRACTOR SHALL PROTECT STOCK PILE AREAS FROM RELEASE OF ERODED SEDIMENT OR SEDIMENT-LADEN WATER. STOCK PILES SHALL BE LINED AND COVERED AT ALL TIMES WHILE NOT IN USE TO KEEP THE STORED MATERIAL DRY.
- K. ALL DISTURBED AREAS SHALL BE STABILIZED BY ACCEPTABLE METHODS FOR THE PREVENTION OF ON-SITE EROSION AFTER COMPLETION OF CONSTRUCTION.
- L. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES FROM EACH WORK AREA AFTER IT HAS BEEN COMPLETELY STABILIZED.



NOTES:

- A. THE CATCH BASIN INSERT DETAIL IS SCHEMATIC.
- B. CATCH BASIN INSERTS SHALL HAVE A MINIMUM STORAGE CAPACITY OF 0.5 CUBIC FEET AND A MEANS TO DEWATER THE STORED SEDIMENT. INSERTS SHALL HAVE AN OVERFLOW AND SHALL BE EASY TO MAINTAIN.
- C. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT. AT NO TIME SHALL MORE THAN ONE FOOT OF SEDIMENT BE ALLOWED TO ACCUMULATE WITHIN A CATCH BASIN INSERT.
- D. INSERTS SHALL BE INSTALLED IN ALL OPERATIONAL CATCH BASINS WITHIN 100 FEET OF WORK LIMITS PRIOR TO CLEARING AND GRADING ACTIVITY.

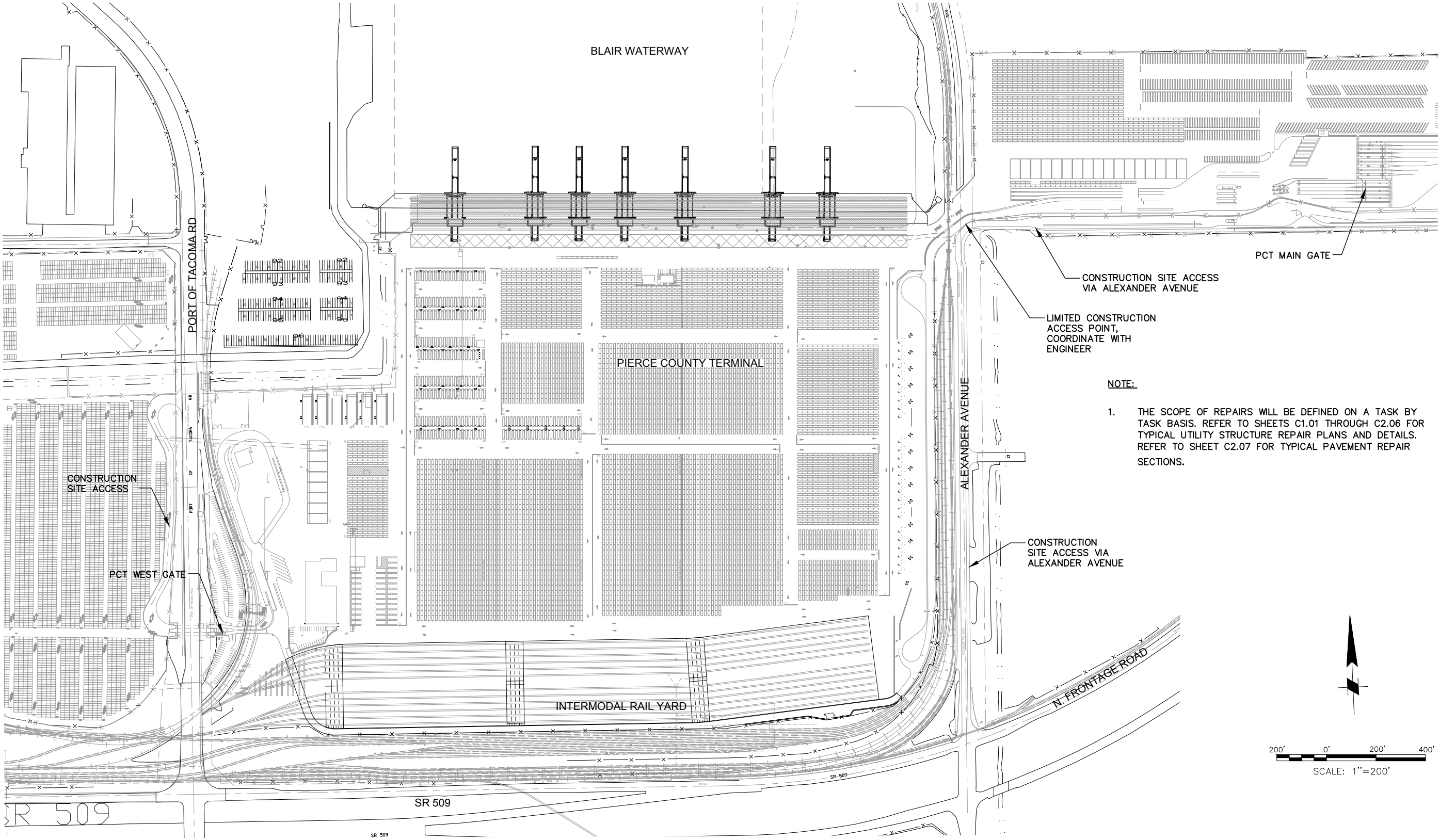
1  
-  
CATCH BASIN INSERT  
SCALE: NTS



2  
-  
SOIL MANAGEMENT AREA STOCKPILE WRAP  
SCALE: NTS

6635 <b>G1.03</b> SHEET 3 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 TESC DETAILS				APPROVED: T. HOWARD DIRECTOR ENG. DATE PRINTED BY: cgreene PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	A. PATTERSON 4/6/22 CHECKED BY DATE S. GRAY 4/6/22 PROJ. ENGR DATE Apr 06, 2022		 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 422-0222	 P.O. BOX 1837 TACOMA, WA 98401 (206) 388-8441
	CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N RANGE: 3E SECTION: MLLW DATE-HRZ: NAD83/2007 PARCEL:	DRAWING SCALE: AS NOTED	MARK:	REVISION:	BY:	APPR:	DATE:	

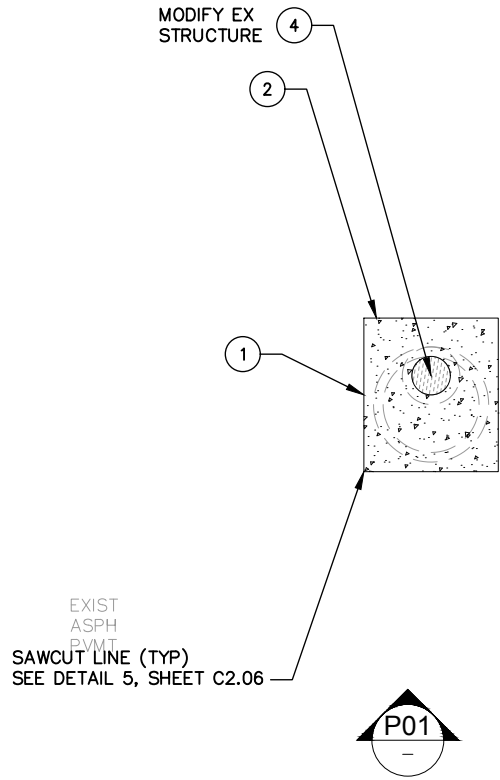




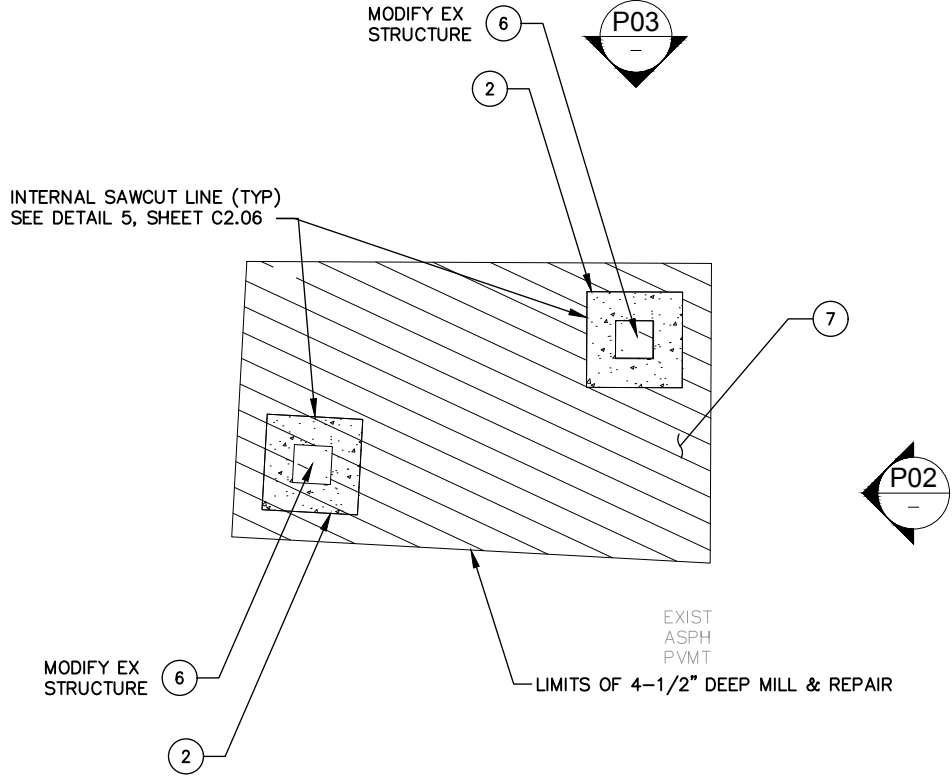
**SITE PLAN**  
SCALE: 1"=200'

6635 <b>C0.00</b> SHEET 4 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 SITE PLAN				APPROVED: A. PATTERSON 4/6/22 CHECKED BY: DATE T. HOWARD S. GRAY 4/6/22 DIRECTOR ENG. DATE PROJ. ENGR DATE PRINTED BY: cgreene Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		4/6/22				Part of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841
	CONT./CONS: 071685 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N DAT-HRZ: NAD83/2007 PARCEL:	RANGE: 3E SECTION: MLLW	DRAWING SCALE: AS NOTED	MARK:	REVISION:	BY:	APPR:			





1 TYPICAL OWS (TYPE 2 CB)  
SCALE: 1" = 5'



2 TYPICAL DOUBLE VALVE BOX SLAB (WATER VALVE BOXES)  
SCALE: 1" = 5'

STD CONSTRUCTION NOTES:

- 1 LIMITS OF ACP REMOVAL.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- 4 ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- 5 ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.
- 7 RESTORE ACP.

NOTES:

1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



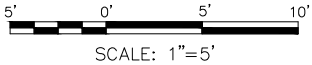
P01 TYPICAL OWS






P02 TYPICAL VALVE BOX

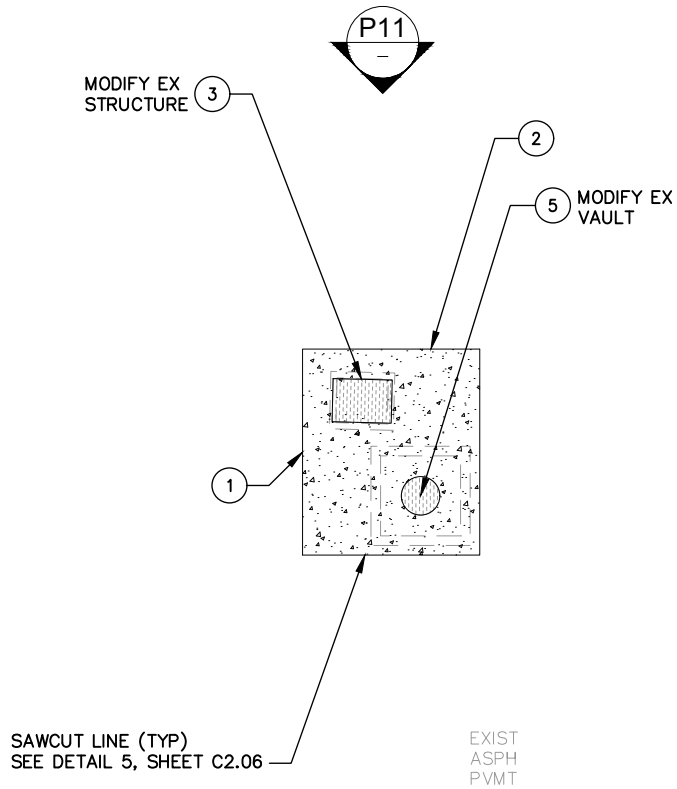


P03 TYPICAL VALVE BOX

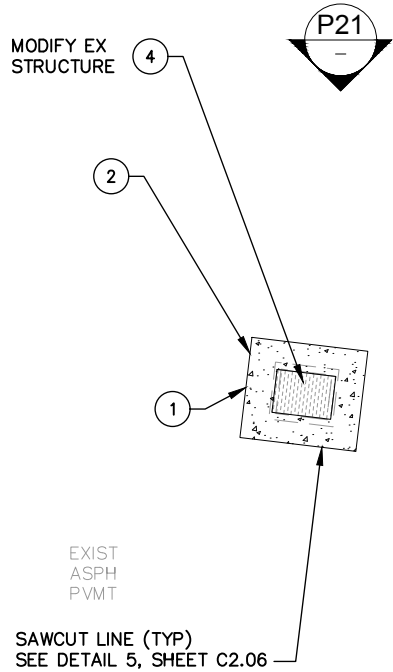


6635 <b>C1.01</b> SHEET 5 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 01				APPROVED: T. HOWARD DIRECTOR DATE: 4/6/22	A. PATTERSON CHECKED BY DATE: 4/6/22	4/6/22
	CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N RANGE: 3E SECTION: 36 DATE-HRZ: 08/3/2007 VERT: MLLW PARCEL:	PRINTED BY: S. GRAY PROJECT ENGR: S. GRAY DATE: Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	DATE: 4/6/22 APPR: S. GRAY BY: S. GRAY REVISION:			
<div> P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5441</div> <div> 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222</div> <div></div>							
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION							

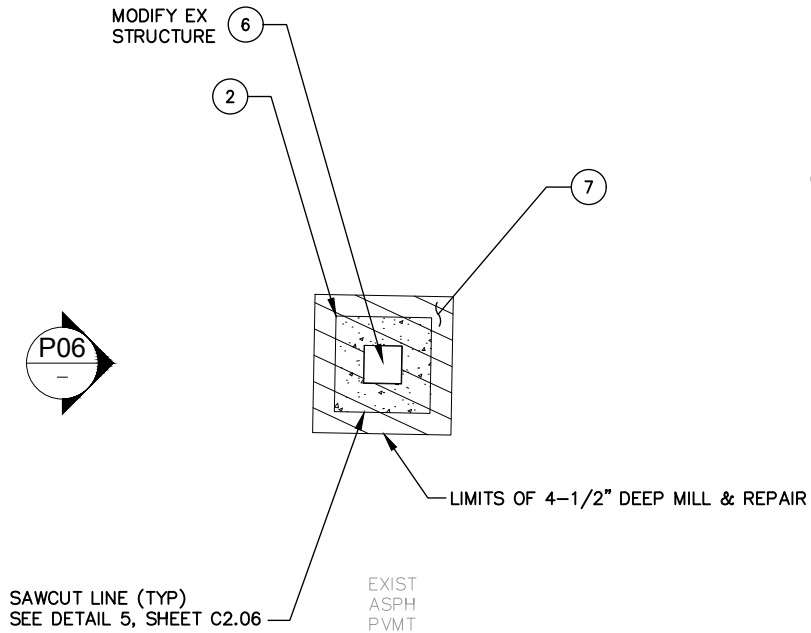




11  
—  
TYPICAL CB (TYPE 1L CB) & CPV (POWER VAULT)  
SCALE: 1" = 5'



21  
—  
TYPICAL CB (TYPE 2 CB)  
SCALE: 1" = 5'



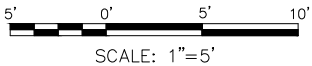
6  
—  
TYPICAL SINGLE VALVE BOX (WATER VALVE BOX)  
SCALE: 1" = 5'

STD CONSTRUCTION NOTES:

- 1 LIMITS OF ACP REMOVAL.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- 4 ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- 5 ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.
- 7 RESTORE ACP.

NOTES:

1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



P11  
—  
TYPICAL SD & CPV



P21  
—  
TYPICAL CB



P06  
—  
TYPICAL VALVE BOX

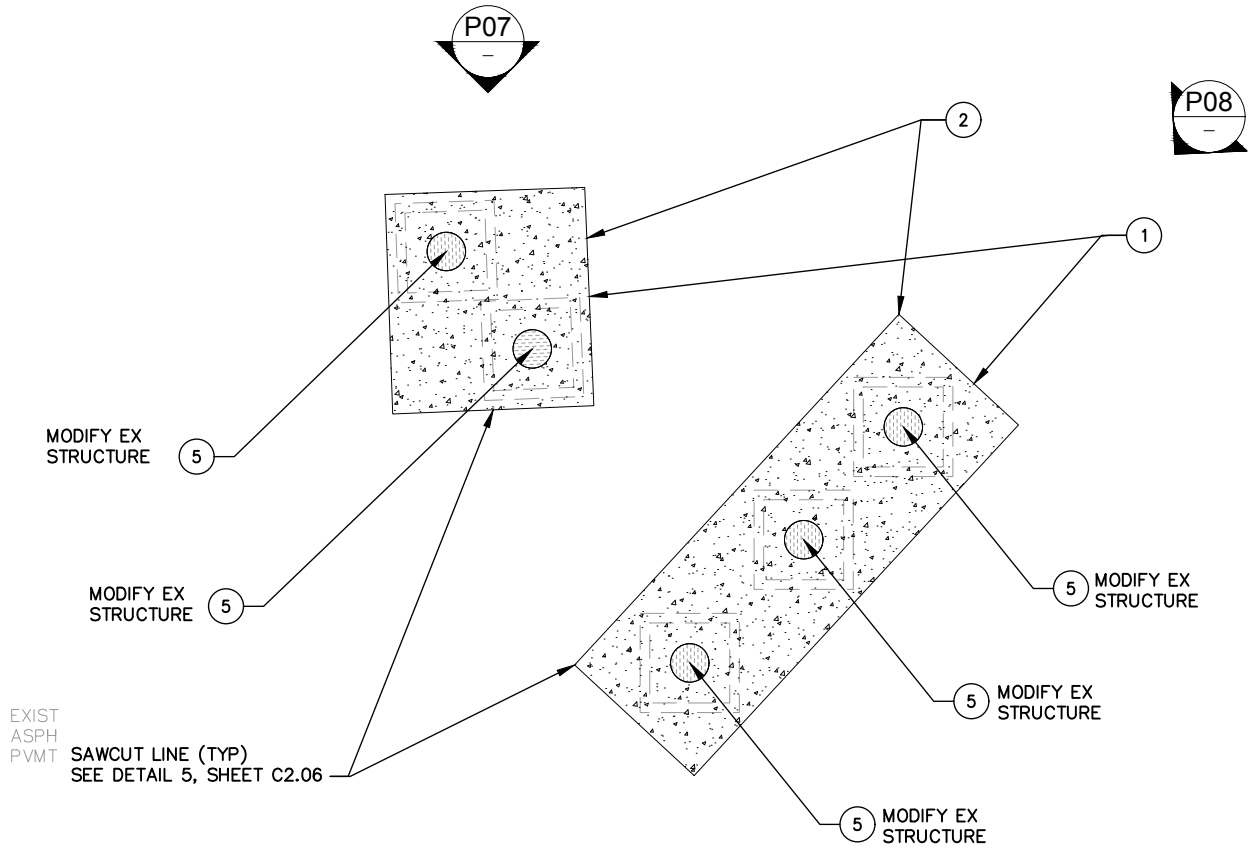
6635 <b>C1.02</b> SHEET 6 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 02	APPROVED:	A. PATTERSON 4/6/22	CHECKED BY:	S. GRAY 4/6/22	DATE:	4/6/22
		T. HOWARD	DIRECTOR	DATE:	4/6/22	DATE:	4/6/22
CONT/CONS:	071685	TOWNSHIP:	20N	RANGE:	3E	SECTION:	MLLW
M. ID:	201038.01	DAT-HRZ:	NAD83/2007	VERT:	MLLW	PARCEL:	AS NOTED
PHASE:	BID SET	DRAWING SCALE:	AS NOTED				
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION							

Port of Tacoma  
P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5441

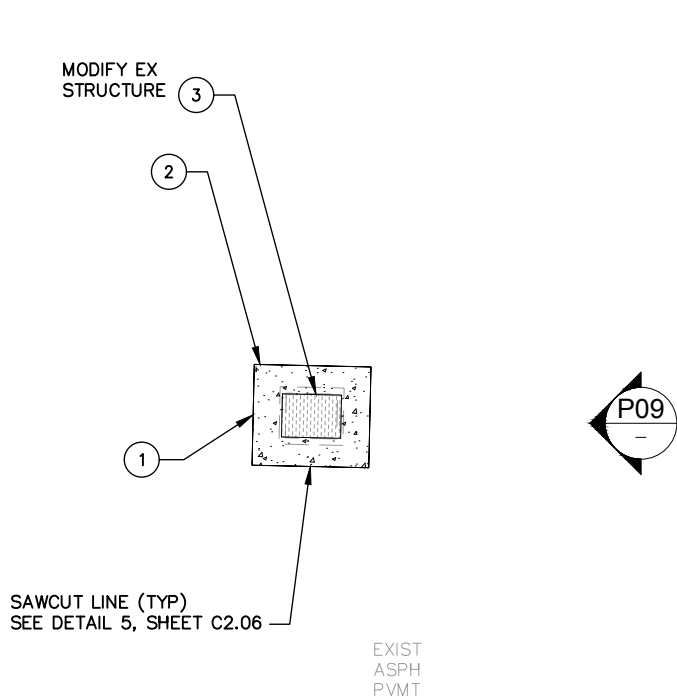
moffatt & nichol  
600 UNIVERSITY STREET, SUITE 610  
SEATTLE, WA 98101  
(206) 462-0222

MARK: \_\_\_\_\_ REVISION: \_\_\_\_\_ BY: \_\_\_\_\_ DATE: \_\_\_\_\_





7 TYPICAL CPV, CPV, PV, PV & SV (ELEC / COMM VAULTS)  
SCALE: 1" = 5'



9 TYPICAL CB (TYPE 1L CB)  
SCALE: 1" = 5'



P07 TYPICAL CPV & CPV



P08 TYPICAL PV, PV & SV



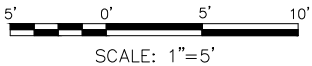
P09 TYPICAL CB

STD CONSTRUCTION NOTES:

- 1 LIMITS OF ACP REMOVAL.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- 4 ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- 5 ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.

NOTES:

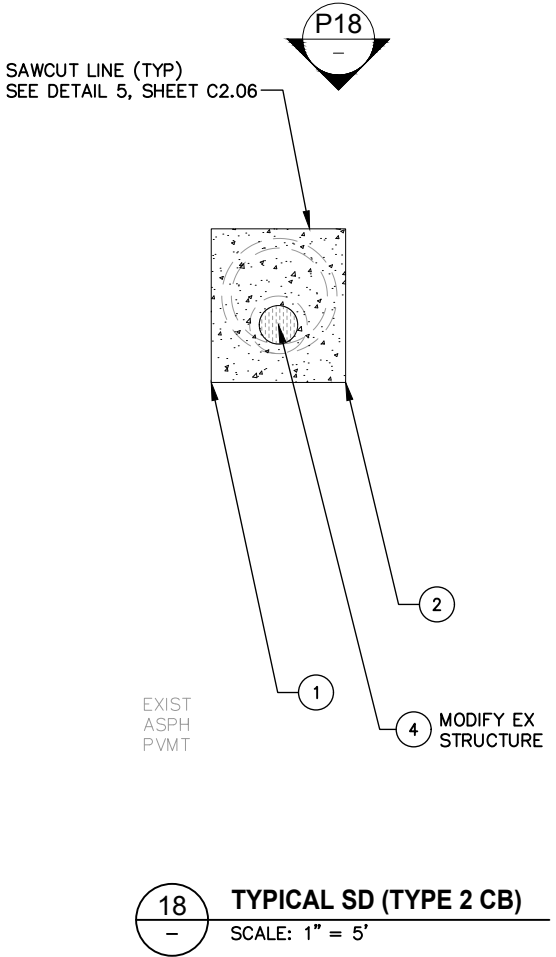
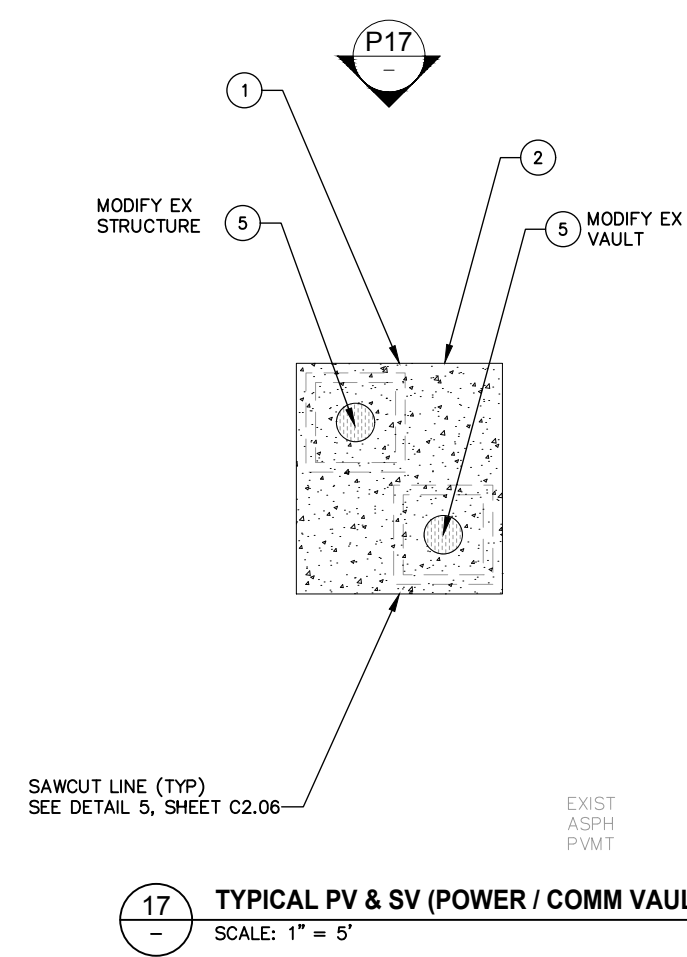
1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



<b>6635</b> <b>C1.03</b> SHEET 7 OF 16	<b>PIERCE COUNTY TERMINAL</b> <b>OPERATIONAL PAVEMENT REPAIRS 2022</b> ENLARGED UTILITIES PLAN 03				<b>APPROVED:</b> T. HOWARD DIRECTOR ENG. DATE: 4/6/22 PRINTED BY: S. GRAY PROJ. ENGR DATE: 4/6/22		<b>Part of Tacoma</b> P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841	
	CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N DATE-HR: 2/20/2007 PARCEL:	RANGE: 3E VERT: MLLW	SECTION: DRAWING SCALE: AS NOTED	DATE: 4/6/22	APPR: [Signature]	BY: [Signature]	REVISION: [Signature]

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION





STD CONSTRUCTION NOTES:

- 1 LIMITS OF ACP REMOVAL.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- 4 ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- 5 ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.

NOTES:

1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



6635 <b>C1.04</b> SHEET 8 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 04				APPROVED: T. HOWARD DIRECTOR ENG. DATE S. GRAY PROJ. ENGR DATE 4/6/22	A. PATTERSON 4/6/22 CHECKED BY DATE S. GRAY 4/6/22	4/6/22
	CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N RANGE: 3E SECTION: MLLW DATE-HRZ: NAD83/2007 PARCEL:	PRINTED BY: cgreene Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	MARK: REVISION: BY: DATE:			

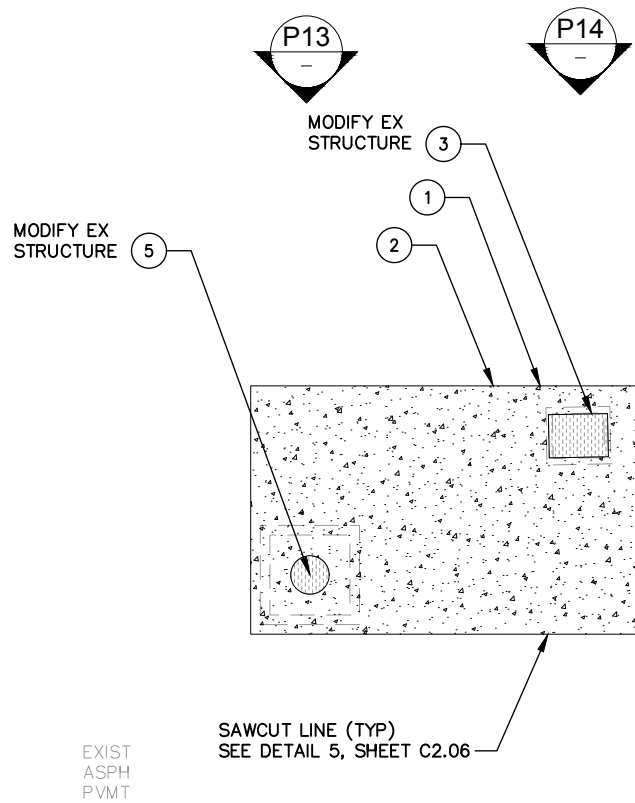
Port of Tacoma  
P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841

moffatt & nichol  
600 UNIVERSITY STREET, SUITE 610  
SEATTLE, WA 98101  
(206) 462-0222

STATE OF WASHINGTON  
DEPARTMENT OF TRANSPORTATION  
4/6/22

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION





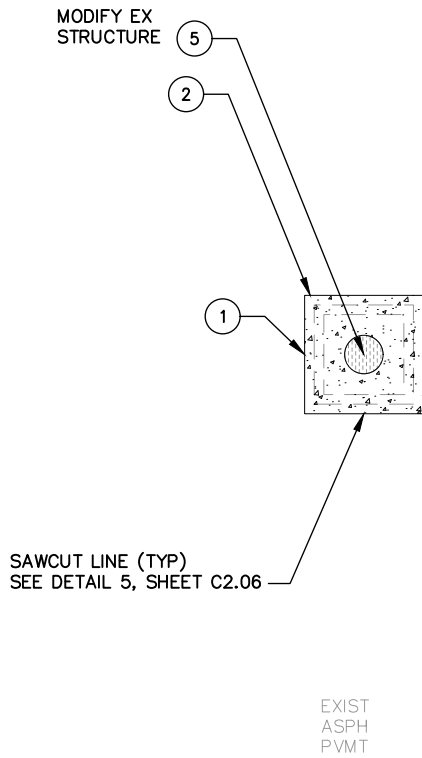
13 TYPICAL CB (TYPE 1L CB) & CPV (POWER VAULT)  
SCALE: 1" = 5'



P13 CPV



P14 TYPICAL CB



15 TYPICAL FOV (POWER VAULT)  
SCALE: 1" = 5'



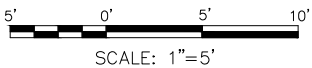
P15 TYPICAL FOV

STD CONSTRUCTION NOTES:

- 1 LIMITS OF ACP REMOVAL.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- 4 ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- 5 ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE SURFACING, SEE DETAIL 4, SHEET C2.04.

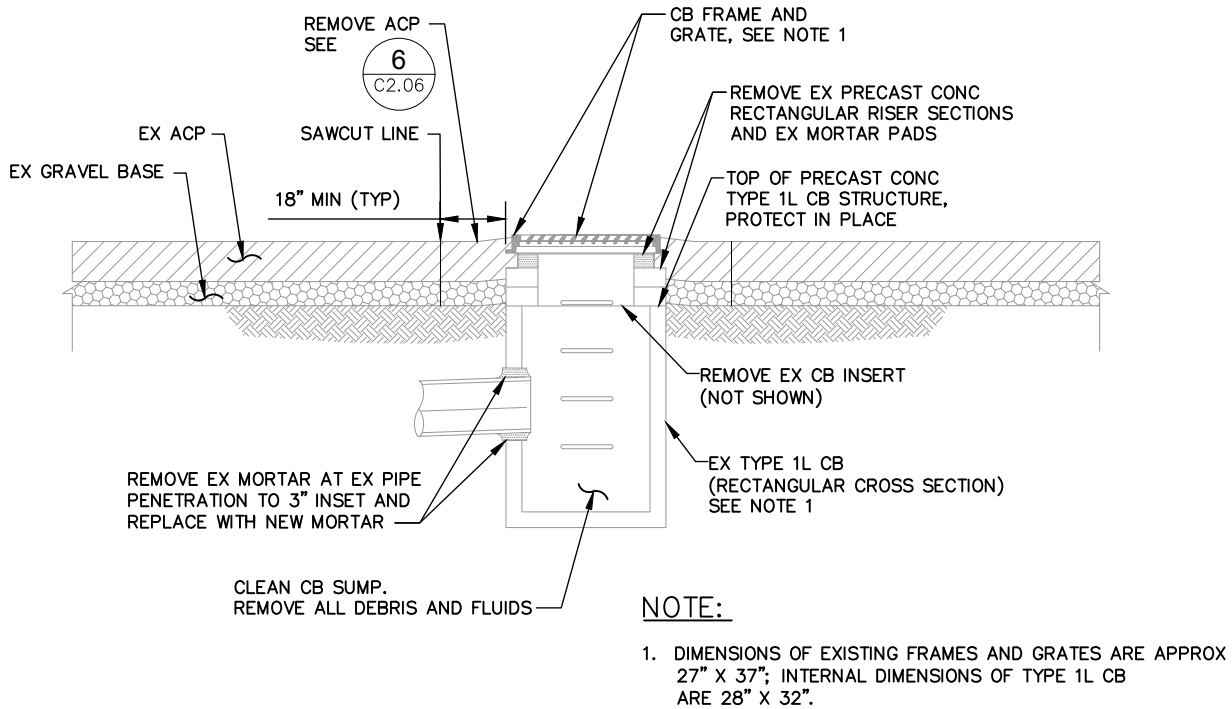
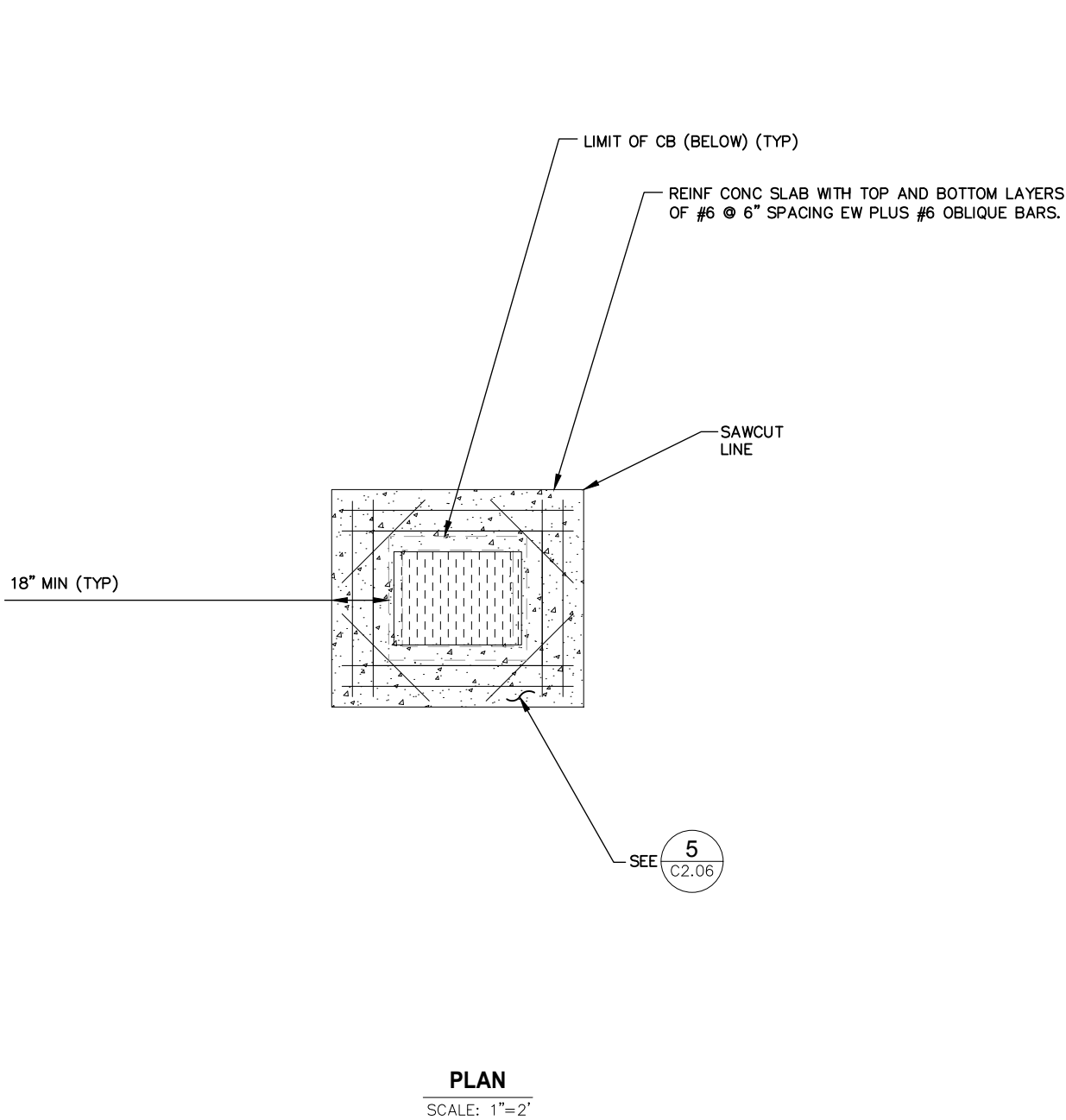
NOTES:

1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



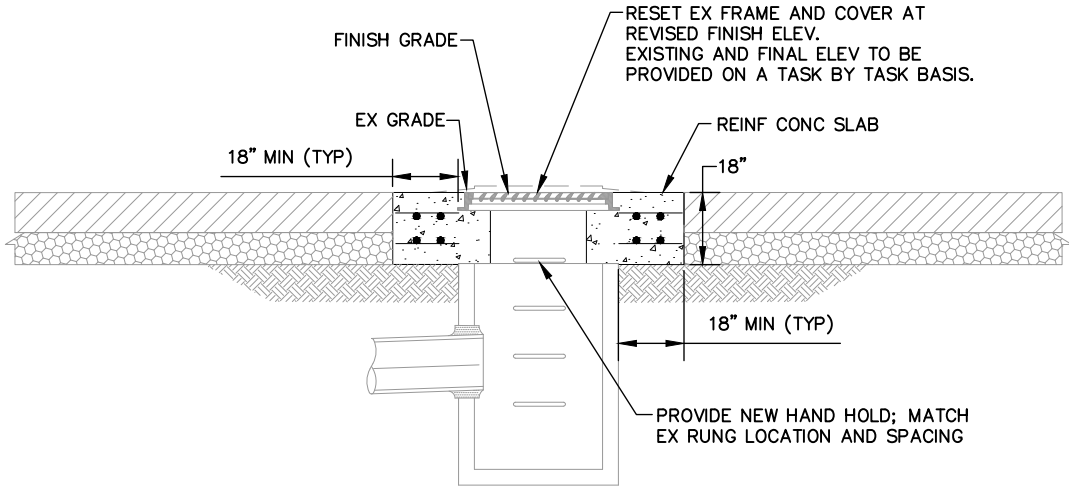
<b>6635</b> <b>C1.05</b> SHEET 9 OF 16	<b>PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022</b> ENLARGED UTILITIES PLAN 05				APPROVED: A. PATTERSON 4/6/22 CHECKED BY: S. GRAY 4/6/22 DATE: 4/6/22	
	CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N DATE-HRZ: NAD83/2007 PARCEL:	RANGE: 3E VERT: MLLW	SECTION: DRAWING SCALE: AS NOTED	PROJECT: ONE SITCUM PLAZA TACOMA, WA 98401-1837	
moffatt & nichol 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 422-0222		P.O. BOX 1837 TACOMA, WA 98401 (206) 422-0222		DATE: _____ APPR: _____ BY: _____ REVISION: _____ MARK: _____		
		4/6/22				

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



SECTION - EXISTING CONDITION AND PREPARATION

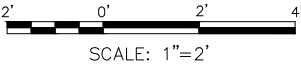
SCALE: 1"=2'



SECTION - FINISH CONDITION

SCALE: 1"=2'

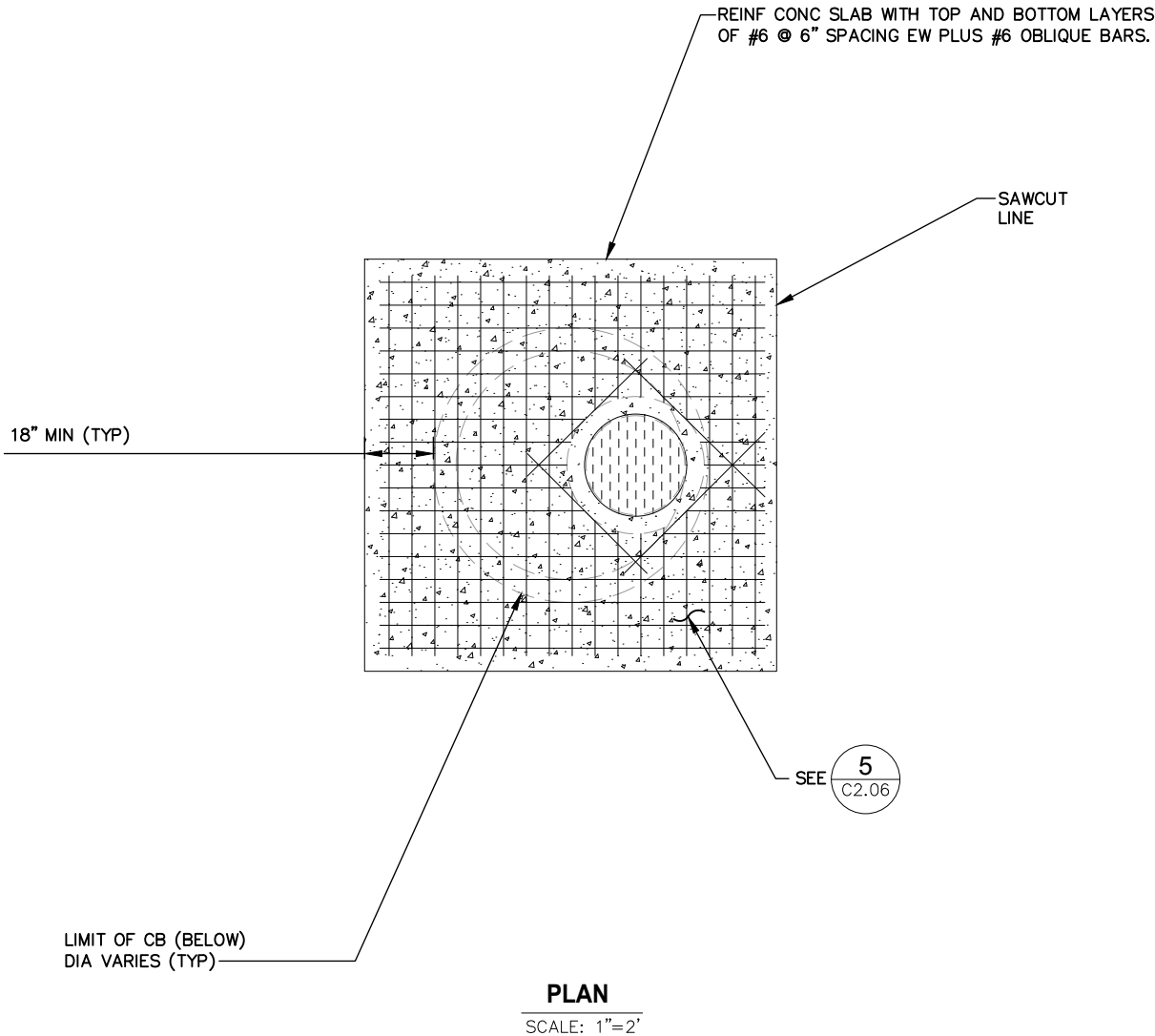
1 TYPICAL REHABILITATION OF TYPE 1L CB



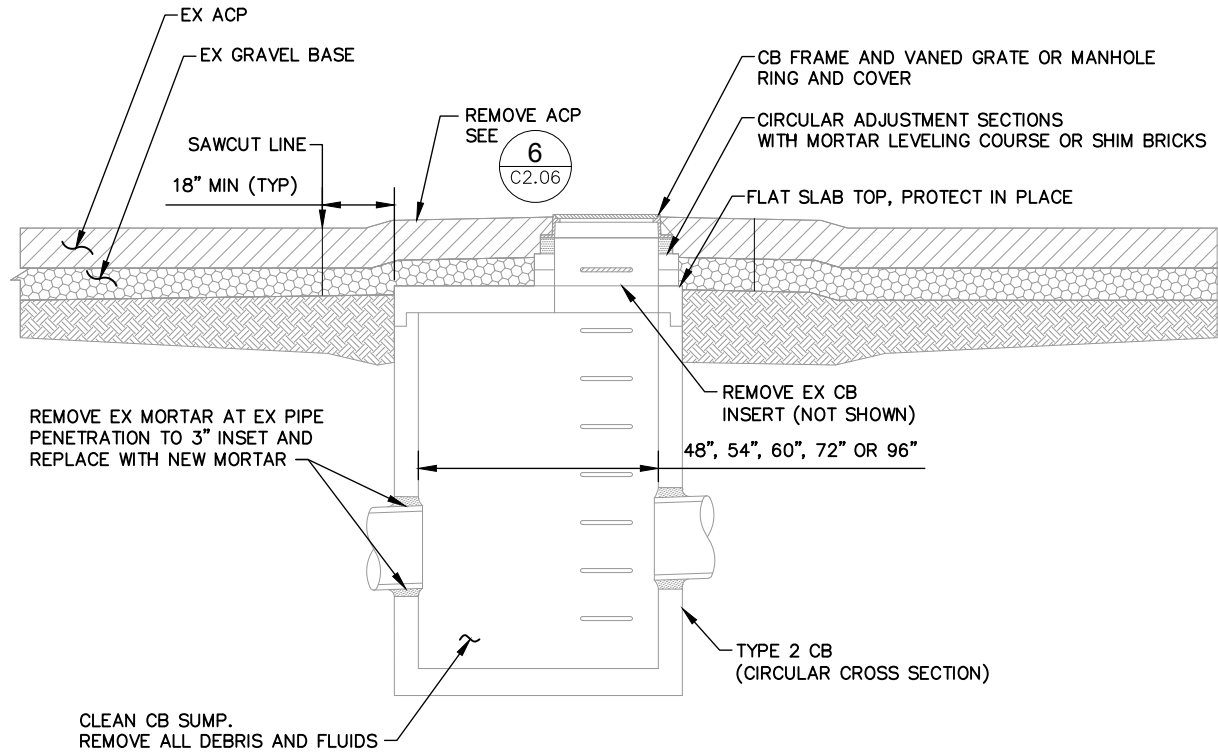
<div>6635</div> <div>C2.01</div> <div>SHEET 10 OF 16</div>	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 SITE DETAILS 01				APPROVED: T. HOWARD DIRECTOR ENG. DATE PRINTED BY: cgreene PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	A. PATTERSON 4/6/22 CHECKED BY DATE S. GRAY 4/6/22 PROJ. ENGR DATE Apr 06, 2022	<div></div> <div>moffatt &amp; nichol</div> <div>600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222</div>	<div></div> <div>4/6/22</div>	MARK:	REVISION:	BY:	APPR:	DATE:
CONT/CONS: 071685		TOWNSHIP: 20N		RANGE: 3E	SECTION:								
M. ID: 201038.01		DAT-HRZ: NAD83/2007		VERT: MLLW									
PHASE: BID SET		PARCEL:		DRAWING SCALE: AS NOTED									

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION

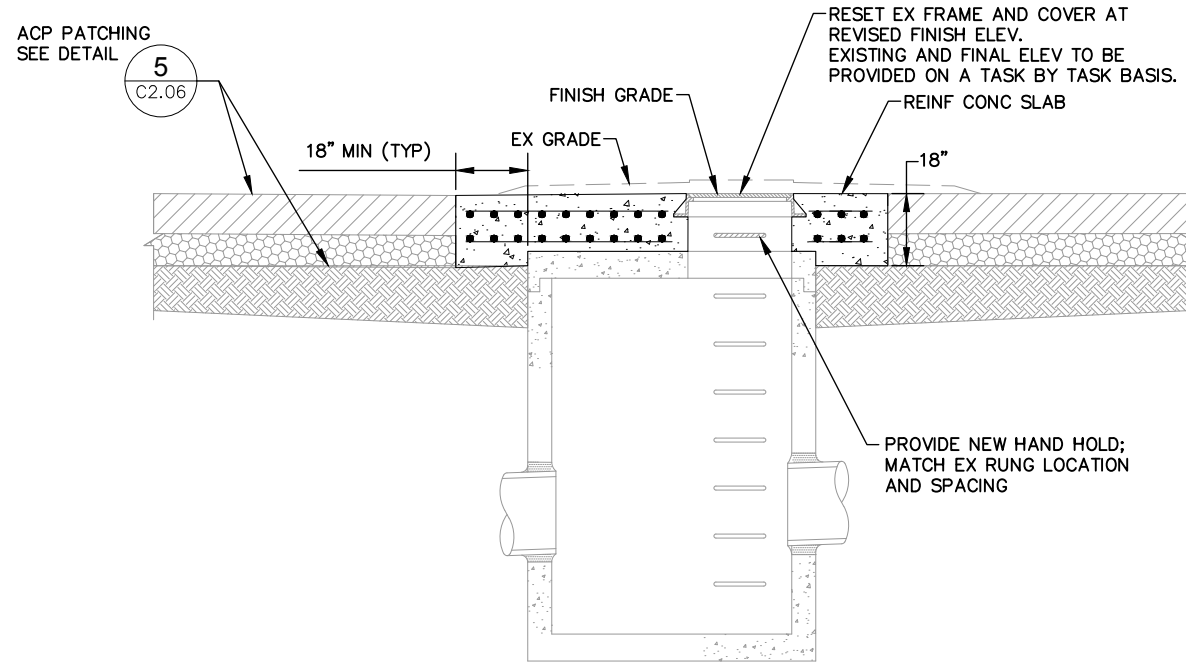




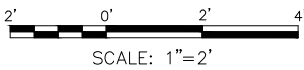
2 VARIES **TYPICAL REHABILITATION OF TYPE 2 CB**



**SECTION - EXISTING CONDITION**  
SCALE: 1"=2'

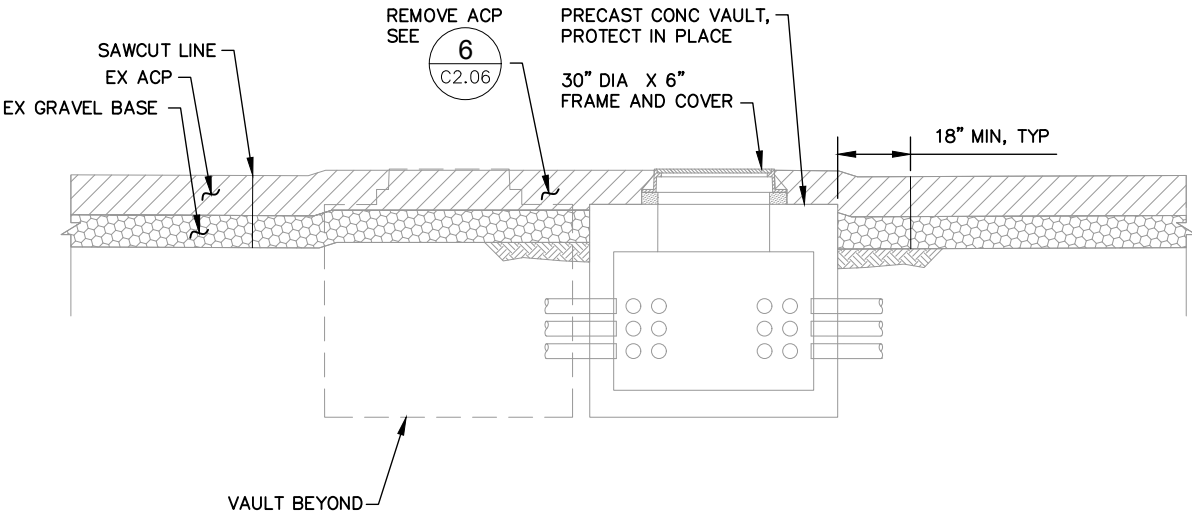
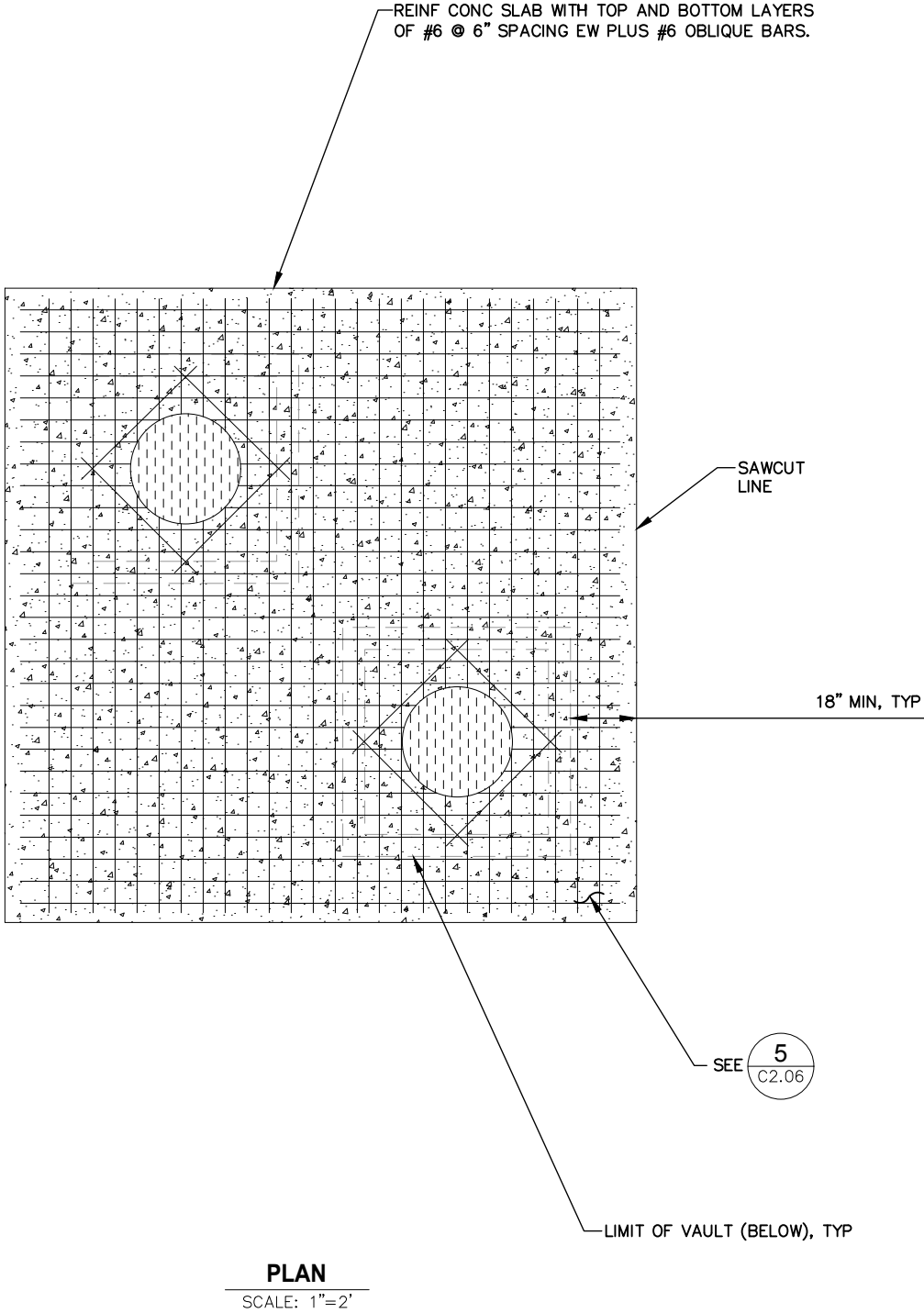


**SECTION - FINISH CONDITION**  
SCALE: 1"=2'

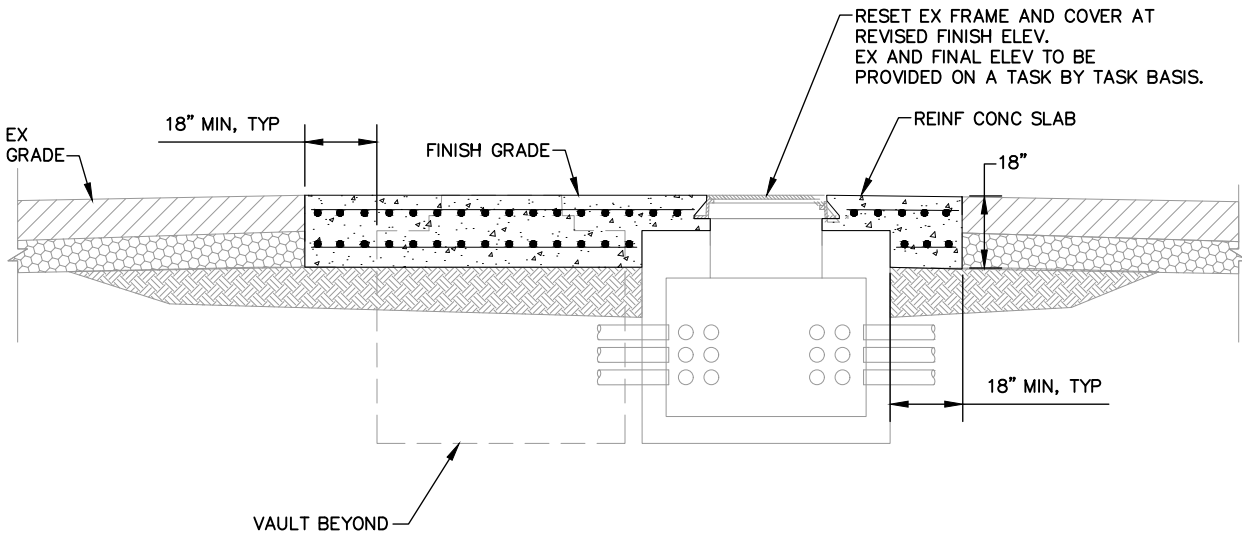


<b>6635</b> <b>C2.02</b> SHEET 11 OF 16	<b>PIERCE COUNTY TERMINAL</b>				APPROVED: A. PATTERSON 4/6/22					
	<b>OPERATIONAL PAVEMENT REPAIRS 2022</b>				CHECKED BY: S. GRAY 4/6/22	DATE: 4/6/22				
	<b>SITE DETAILS 02</b>				DIRECTOR ENG. DATE: 4/6/22	PROJ. ENGR DATE: 4/6/22				
	TOWNSHIP: 20N RANGE: 3E SECTION: MLLW				PRINTED BY: cgreene Apr 06, 2022	DATE: 4/6/22				
CONT/CONS: 071685	TOWNSHIP: 20N	RANGE: 3E	SECTION: MLLW	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA		TACOMA, WA 98401-1837			
M. ID: 201038.01	PARCEL:				TACOMA, WA 98401-1837		MARK: REVISION: BY: APPR: DATE:			
PHASE: BID SET										

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



SECTION - EXISTING CONDITION AND PREPARATION  
SCALE: 1"=2'



SECTION - FINISH CONDITION  
SCALE: 1"=2'

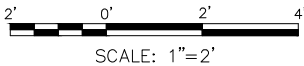
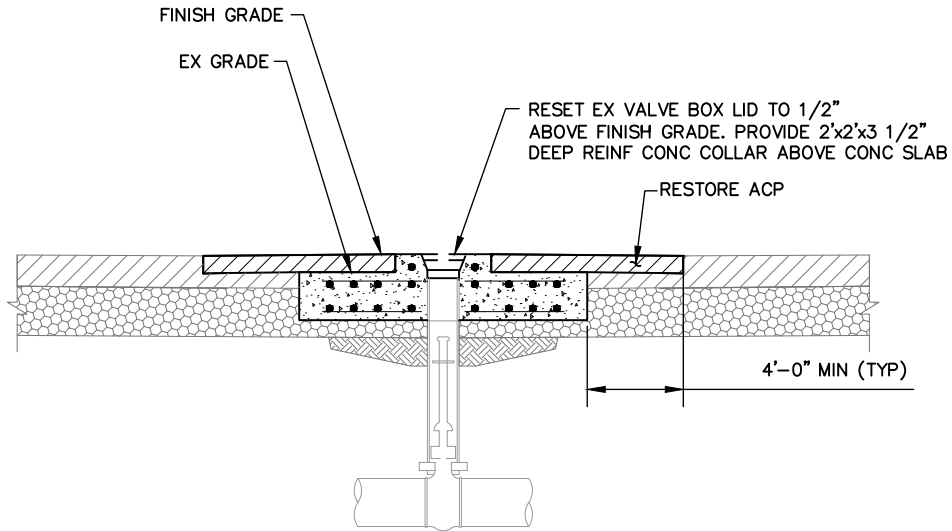
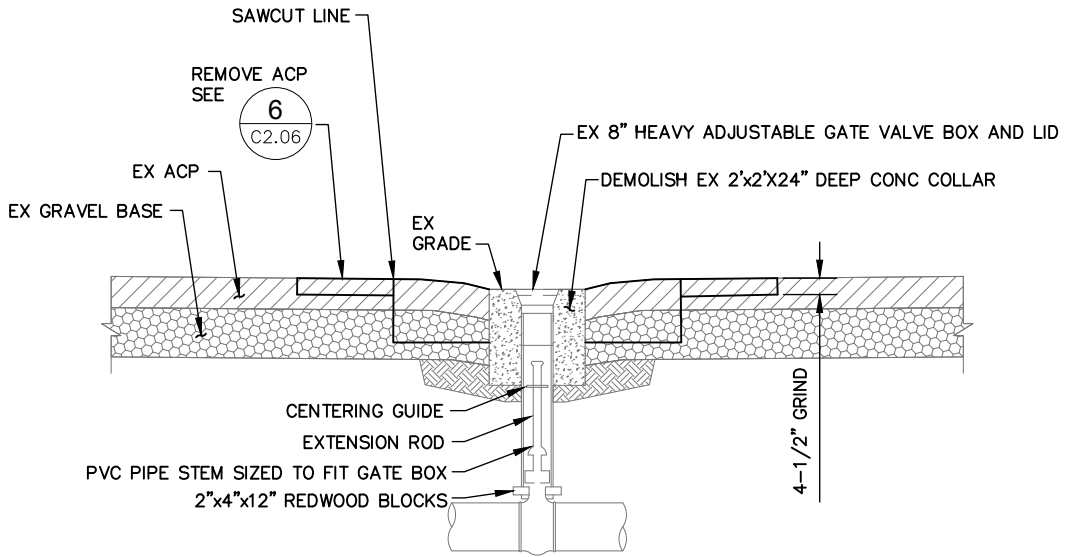
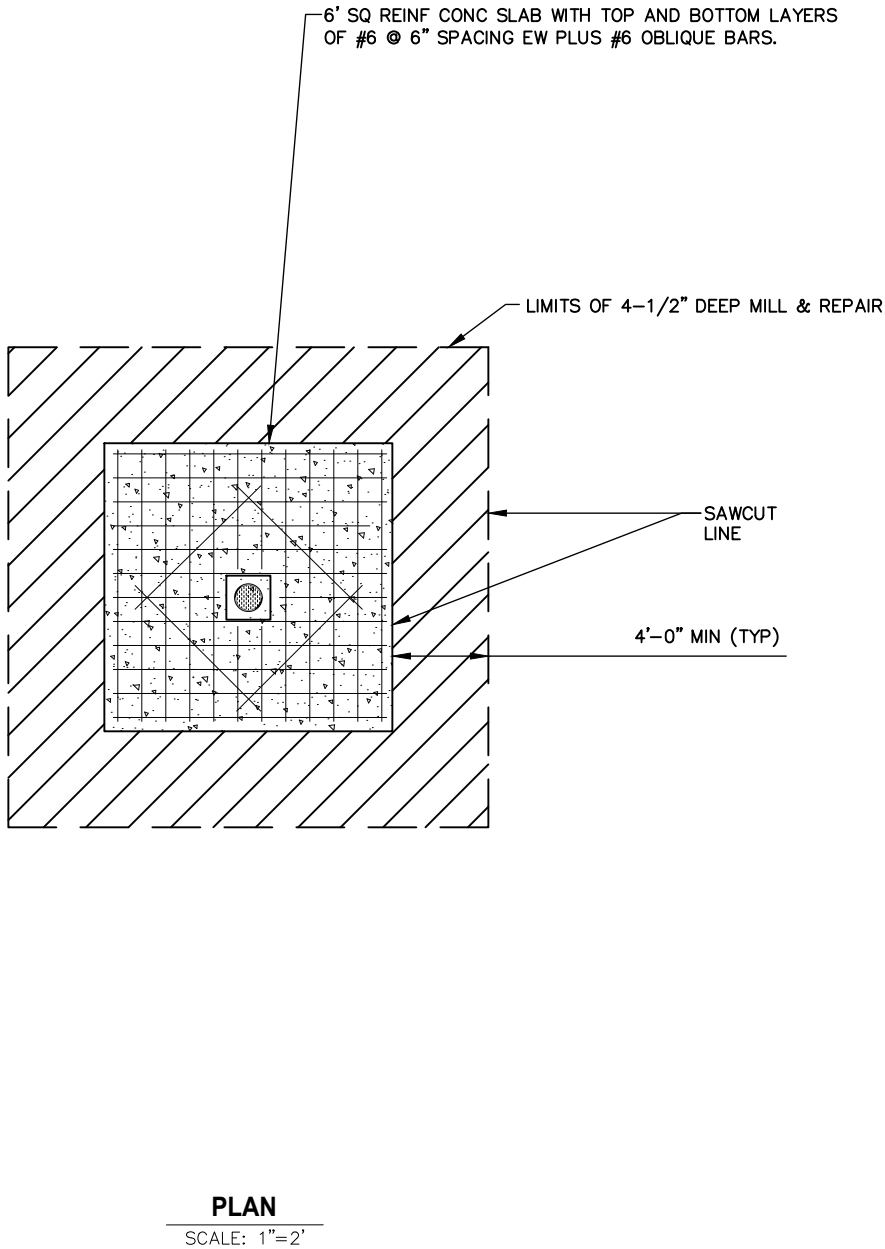





3 VARIES TYPICAL REHABILITATION OF VAULT

<b>6635</b> <b>C2.03</b> SHEET 12 OF 16	<b>PIERCE COUNTY TERMINAL</b>				<b>APPROVED:</b>		A. PATTERSON 4/6/22	
	<b>OPERATIONAL PAVEMENT REPAIRS 2022</b>				T. HOWARD		CHECKED BY	
	<b>SITE DETAILS 03</b>				DIRECTOR ENG. DATE		DATE	
	CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET				RANGE: 3E DATE-HRZ: NAD83/2007 VERT: MLLW		SECTION: AS NOTED DRAWING SCALE:	
600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222				moffatt & nichol		P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841		
Part of Tacoma				REVISION:		BY:		
MARK:				REVISION:		DATE:		
APPR:				BY:		DATE:		

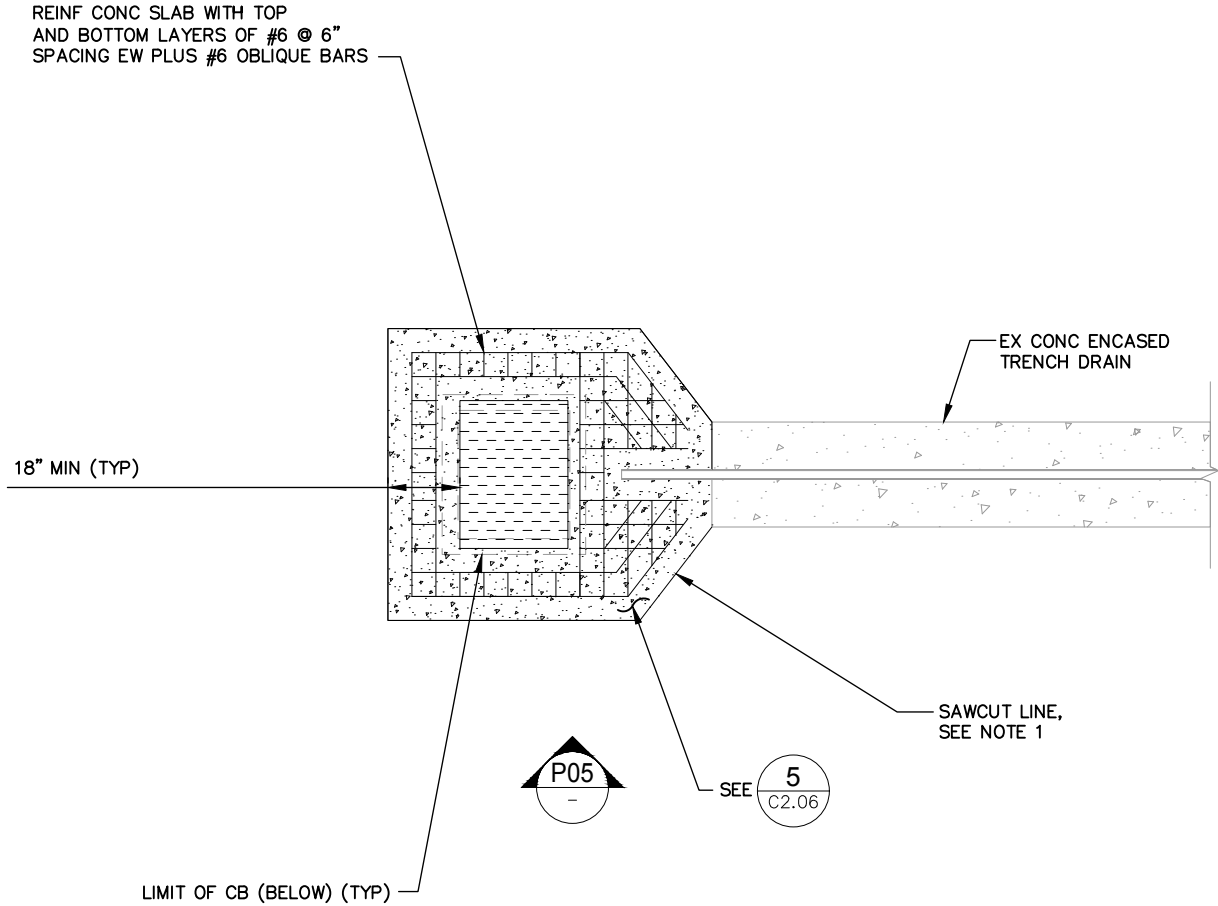
4/6/22

THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



6635 <b>C2.04</b> SHEET 13 OF 16			PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 SITE DETAILS 04			APPROVED:			 4/16/22			 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222			 P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841								
CONTRACT/CONS: 071685			TOWNSHIP: 20N			RANGE: 3E			SECTION: 3E			MARK:			REVISION:			BY:			DATE:		
M. ID: 201038.01			DATE-HRZ: NAD83/2007			VERT: MLLW			DRAWING SCALE: AS NOTED			T. HOWARD			S. GRAY								
PHASE: BID SET			PARCEL:			DRAWING SCALE: AS NOTED			TACOMA, WA 98401-1837			DIRECTOR ENG. DATE			PROJ. ENGR DATE								
												PRINTED BY: cgreene Apr 06, 2022											
												PORT ADDRESS: ONE SITCUM PLAZA											





**PLAN**  
SCALE: 1"=2'



PHOTO - EXAMPLE EXISTING CONDITION

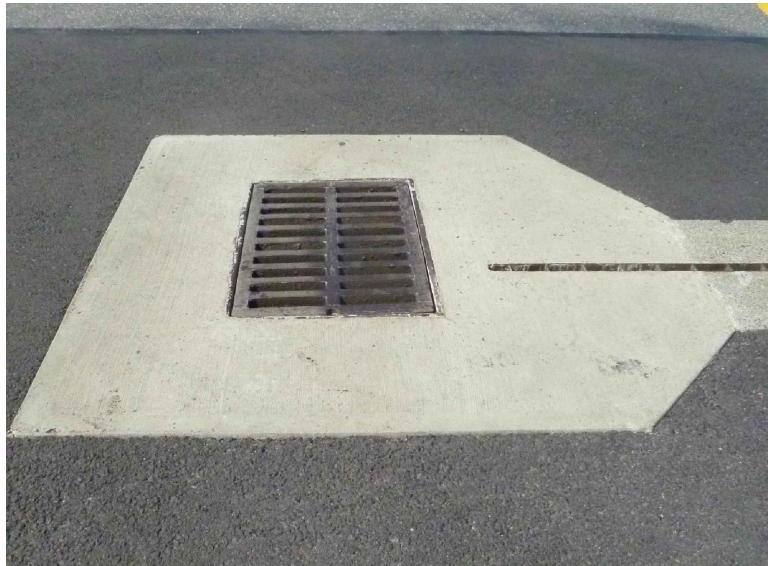
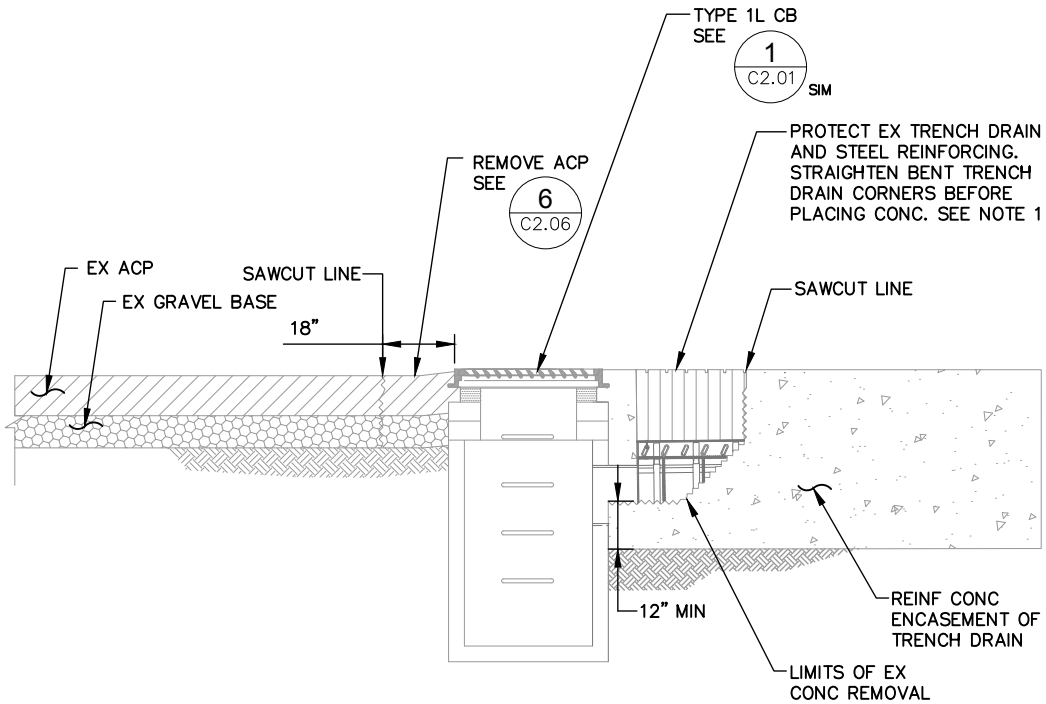


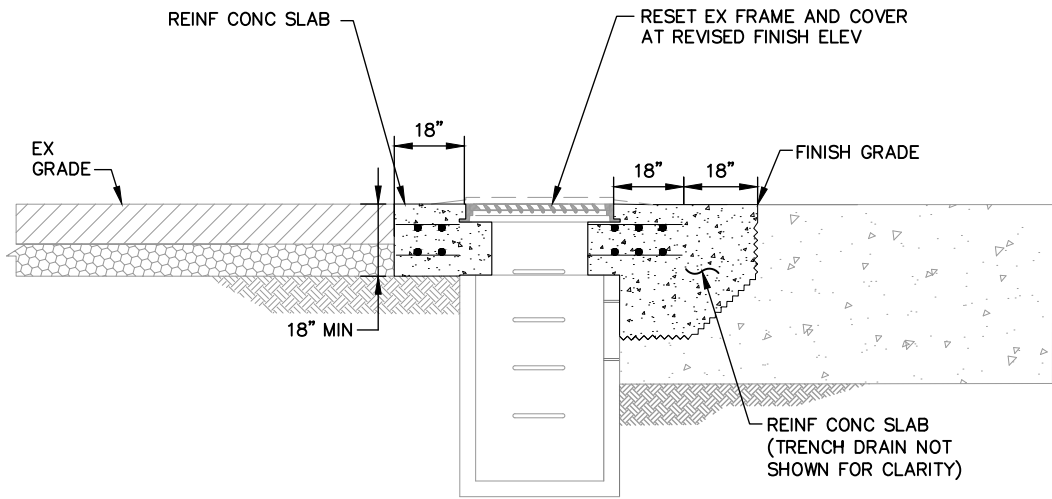
PHOTO - EXAMPLE FINISH CONDITION

**P05**  
—  
TYPICAL TYPE 1L CB WITH TRENCH DRAIN  
NO SCLAE

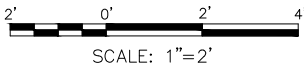
**5**  
VARIES  
TYPICAL REHABILITATION OF TYPE 1L CATCH BASIN WITH TRENCH DRAIN



**SECTION - EXISTING CONDITION AND PREPARATION**  
SCALE: 1"=2'



**SECTION - FINISH CONDITION**  
SCALE: 1"=2'

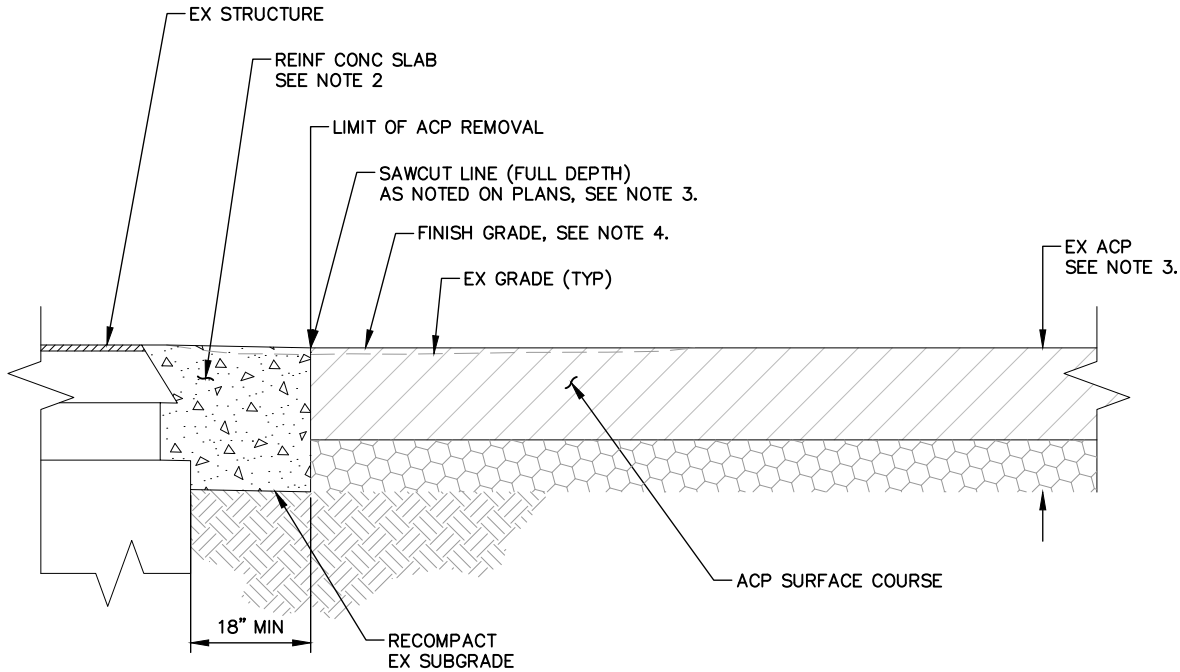


**NOTE:**

1. SAWCUT TOP 3 INCHES OF EXISTING REINFORCED CONCRETE TRENCH DRAIN STRUCTURE AT THE LOCATION INDICATED. DO NOT DAMAGE EXISTING TRENCH DRAIN EMBEDDED METAL RISER OR PIPE SECTIONS. JACK HAMMER TO REMOVE LOOSE CONCRETE AND PROVIDE A SOLID BASE SURFACE. MAINTAIN REINFORCING STEEL FOR USE IN NEW REINFORCED CONCRETE SLAB. APPLY BONDING AGENT TO EXISTING CONCRETE SURFACES. PROVIDE ADDITIONAL REINFORCEMENT AS DIRECTED BY THE ENGINEER.

<b>6635</b> <b>C2.05</b> SHEET 14 OF 16	<b>PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022</b> SITE DETAILS 05				APPROVED: T. HOWARD DIRECTOR ENG. DATE: 4/6/22		A. PATTERSON 4/6/22 CHECKED BY: DATE: 4/6/22		 P.O. BOX 1837 TACOMA, WA 98401 (206) 861-5441	 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222		MARK:	REVISION:	BY:	APPR:	DATE:	
	CONT/CONS: 071685	TOWNSHIP: 20N	RANGE: 3E	SECTION: MLLW	DAT-HRZ: NAD83/2007	VERT: MLLW	PARCEL:	DRAWING SCALE: AS NOTED									
M. ID: 201038.01		PHASE: BID SET															

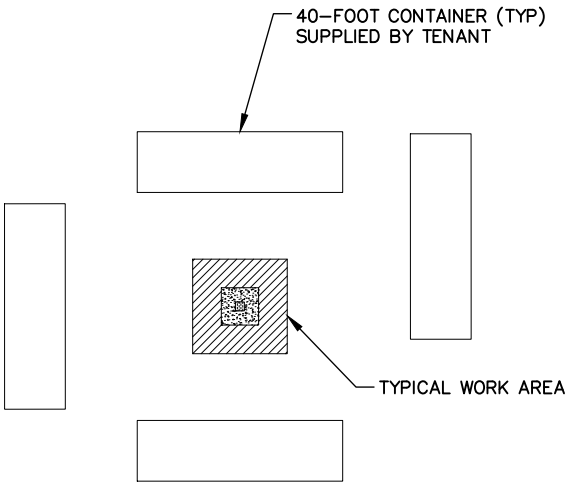
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



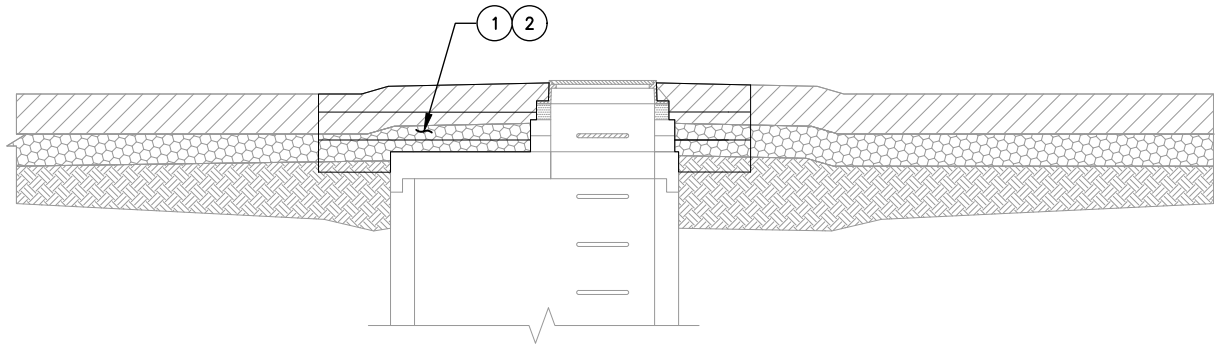
NOTES:

1. REINF CONC SLAB SHALL EXTEND MINIMUM 1.5' HORIZONTALLY BEYOND EXTERIOR LIMIT OF EXIST STRUCTURE BELOW OR AS SHOWN OR INDICATED ON THE PLANS.
2. MATCH ELEVATION OF ADJUSTED STRUCTURE GRATE OR RIM. FIELD VERIFY FRAME AND GRATE (OR COVER) DIMENSIONS. THIS CONCRETE SLAB SHALL BE CAST MONOLITHIC WITH CAST-IN-PLACE STRUCTURE RISERS (NOT SHOWN) WHERE APPLICABLE.
3. EXISTING PAVEMENT SECTION VARIES THROUGHOUT THE YARD. TYPICAL SECTION MAY INCLUDE ±8" TO 10" OF SUPERPAVE ACP ON ±2" OF CLASS B ACP OVER A CRUSHED ROCK BASE OR PITRUN SUB-GRADE.
4. FINISH ELEVATIONS SHALL BE ADJUSTED AS DIRECTED BY THE ENGINEER TO ACCOMMODATE ADJACENT PAVEMENT ELEVATIONS AND TO ENSURE POSITIVE DRAINAGE.

5 TYPICAL ASPHALT CONCRETE PATCHING AT EXISTING STRUCTURE  
VARIES SCALE: 1" = 1'

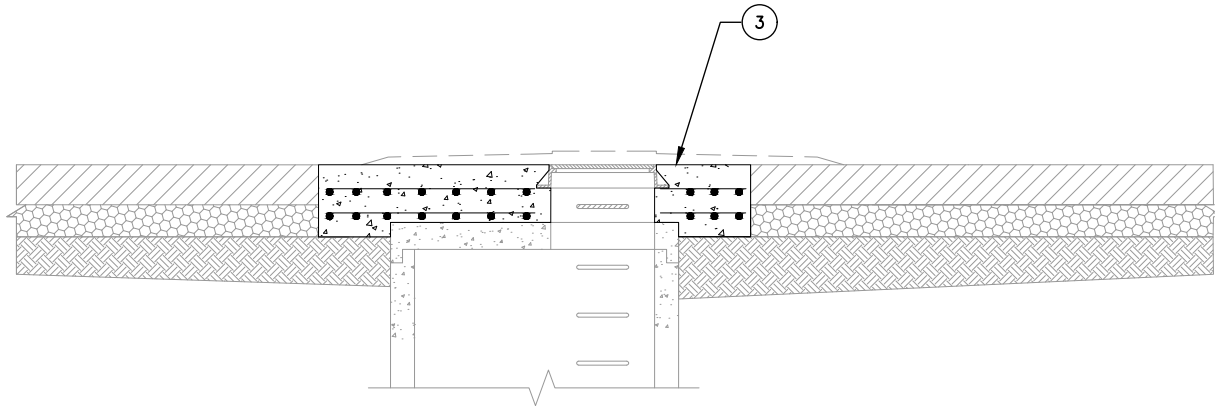


7 TYPICAL WORK AREA PROTECTION  
VARIES SCALE: NTS



SECTION - EXISTING CONDITION & PREPARATION

SCALE: 1"=2'



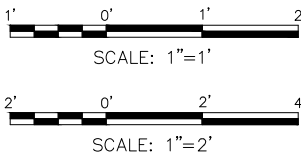
SECTION - PROPOSED CONDITION

SCALE: 1"=2'

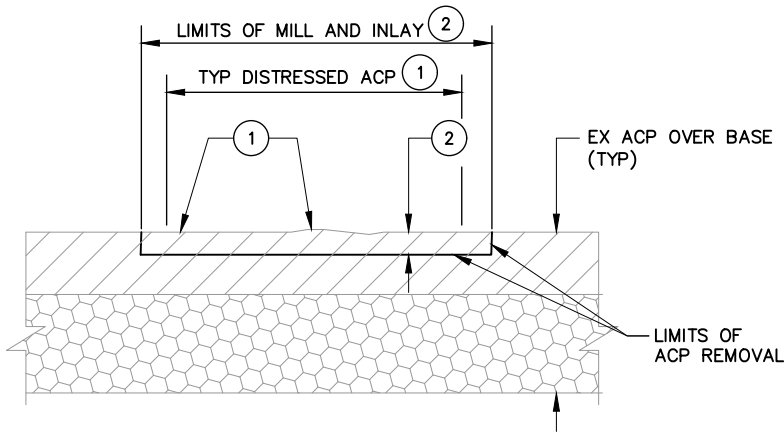
NOTES:

- 1 SAWCUT AND REMOVE ACP.
- 2 REMOVE PAVEMENT BASE AND EXCAVATE TO BOTTOM OF WORK AREA. COMPACT SUBGRADE TO UNYIELDING STATE.
- 3 CONSTRUCT REINFORCED CONC SLAB.

6 TYPICAL CONSTRUCTION SEQUENCE  
VARIES SCALE: 1" = 2'

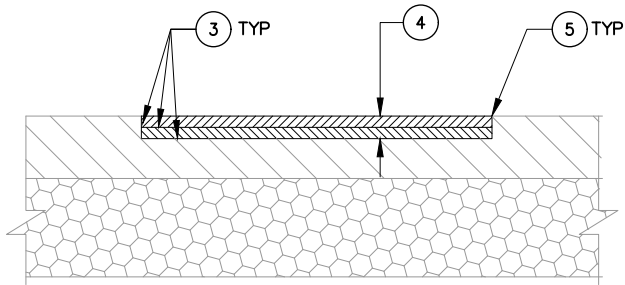


6635 C2.06 SHEET 15 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 SITE DETAILS 06				APPROVED: A. PATTERSON 4/6/22 T. HOWARD DIRECTOR ENG. DATE S. GRAY 4/6/22 PROJ. ENGR DATE PRINTED BY: cgreene Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		moffatt & nichol 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222		Part of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841	
	CONT/CONS: 071685	TOWNSHIP: 20N	RANGE: 3E	SECTION:	MARK:	REVISION:	BY:	APPR:	DATE:	
	M. ID: 201038.01	DAT-HRZN:AD83/2007	VERT: MLLW							
	PHASE: BID SET	PARCEL:		DRAWING SCALE: AS NOTED						



**SECTION - EXISTING CONDITION AND PREPARATION**

SCALE: NTS



**SECTION - FINISH CONDITION**




SCALE: NTS

**PAVEMENT REPAIRS (AS NEEDED)**

SCALE: NTS

**KEY NOTES:**

- 1 EXISTING DAMAGED ACP (LIMITS AND SEVERITY VARY).
- 2 MILL EXISTING ACP TO THE NECESSARY LIMITS AND DEPTH TO ACCOMMODATE A 4.5 INCHES INLAY.
- 3 REFER TO THE SPECIFICATIONS FOR TACK COAT REQUIREMENTS.
- 4 PROVIDE 4.5 INCHES ACP INLAY VIA A 2½ INCHES BASE LIFT FOLLOWED BY A 2 INCHES SURFACE LIFT.
- 5 PROVIDE JOINT SEALANT.

<div>6635</div> <div>C2.07</div> <div>SHEET 16 OF 16</div> <div>CONT/CONS: 071685</div> <div>M. ID: 201038.01</div> <div>PHASE: BID SET</div>	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 PAVING SECTIONS				APPROVED: A. PATTERSON 4/6/22 CHECKED BY: DATE T. HOWARD S. GRAY 4/6/22 DIRECTOR ENG. DATE PROJ. ENGR DATE PRINTED BY: cgreene Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		 4/6/22		 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222		 P.O. BOX 1837 TACOMA, WA 98401 (206) 388-5841	
	TOWNSHIP: 20N RANGE: 3E SECTION: DAT-HRZNAD83/2007 VERT: MLLW				DRAWING SCALE: AS NOTED		MARK:		REVISION:		BY:	
	PARCEL:						APPR:		DATE:			