

# PORT OF TACOMA

## PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2023 PROJECT NO. 201038.02 CONTRACT NO. 071898

### PORT COMMISSIONERS:

JOHN MCCARTHY  
DICK MARZANO  
DEANNA KELLER  
DON MEYER  
KRISTIN ANG

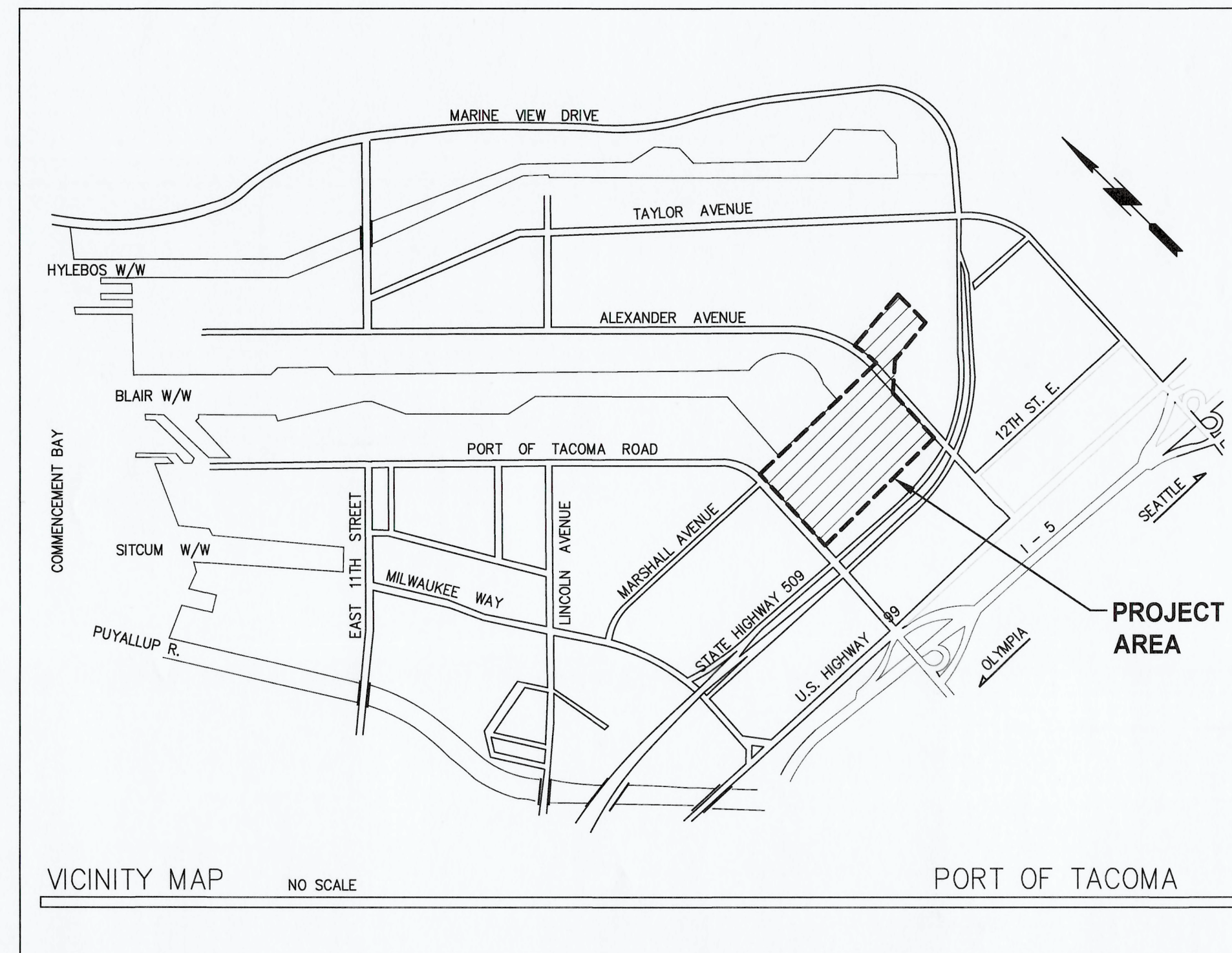
### PORT STAFF:

JOHN WOLFE  
NWSA CEO

ERIC JOHNSON  
Executive Director

THAIS HOWARD, PE  
Director of Engineering

BRETT OZOLIN, PE  
Project Manager



CONSULTANT:

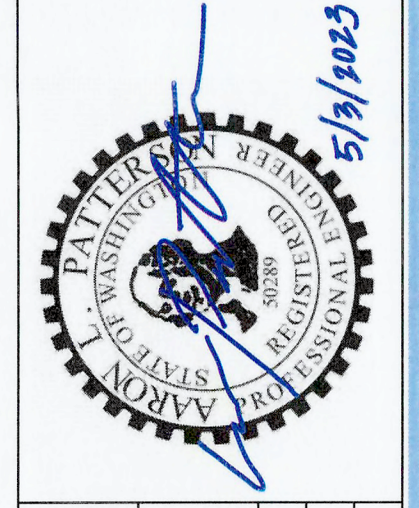


**moffatt & nichol**

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

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<p>6690</p> <p><b>G1.01</b></p> <p>SHEET 1 OF 16</p> <p>CONT/CONS: 071898 M. ID: 201038.02 PHASE: BID SET</p>	<p>PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2023 COVER PAGE &amp; SHEET INDEX</p>		<p>APPROVED: <i>Thais Howard</i></p> <p>T. HOWARD DIRECTOR ENG. DATE: 5/3/23</p>	<p>N. COLSON 5/3/23 CHECKED BY DATE</p> <p>A. PATTERSON 5/3/23 PROJ. ENGR DATE</p>	<p>PRINTED BY: apatterson May 03, 2023</p> <p>PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837</p>
	<p>TOWNSHIP: 20N RANGE: 3E SECTION: 3E</p> <p>DAT-HRZ: NAD83/2007 VERT: MLLW</p> <p>PARCEL: [ ] DRAWING SCALE: AS NOTED</p>	<p>Part of Tacoma P.O. BOX 1837 TACOMA, WA 98401-1837</p>	<p>moffatt &amp; nichol 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 622-0222</p>	<p>MARK: REVISION: [ ] BY: [ ] DATE: [ ]</p>	



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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).

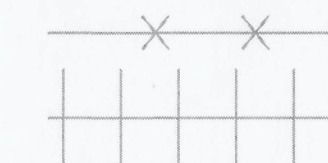
ABBREVIATIONS

•	FEET
"	INCHES
⊙	AT
ACP	ASPHALT CONCRETE PAVEMENT
APPROX	APPROXIMATE
BLDG	BUILDING
CB	CATCH BASIN
CL	CLASS
COMM	COMMUNICATIONS
CONC	CONCRETE
CPV	CRANE POWER VAULT
CSEBC	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

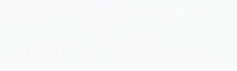
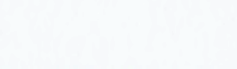
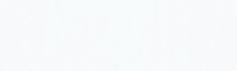
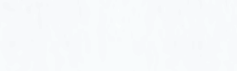
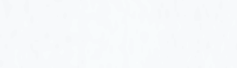
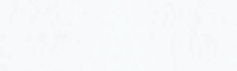
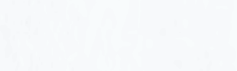
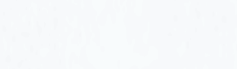
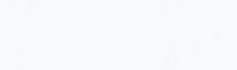
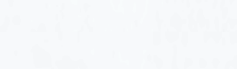
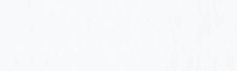
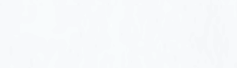
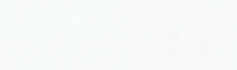
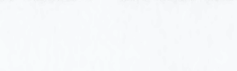
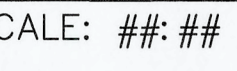
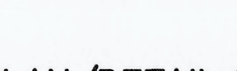
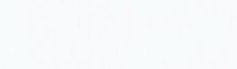
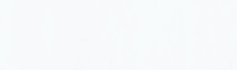
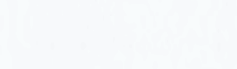
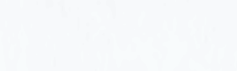
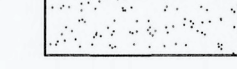
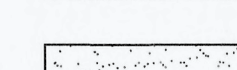
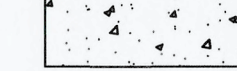
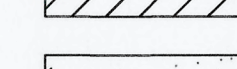
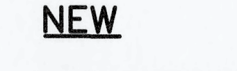
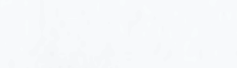
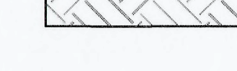
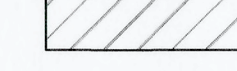
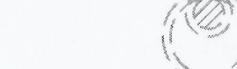
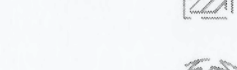
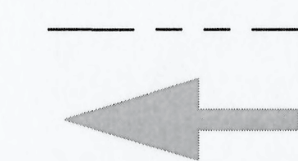
REINF	REINFORCED
REQ'D	REQUIRED
ROW	RIGHT OF WAY (CITY OF TACOMA)
RR	RAIL ROAD
SD	STORM DRAINAGE
SIM	SIMILAR
SS	SANITARY SEWER
STD	STANDARD
SV	SITE COMMUNICATIONS VAULT
TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
TEL	TELEPHONE
TYP	TYPICAL
UON	UNLESS OTHERWISE NOTED
VERT	VERTICAL
VL	VAULT
VLV	VALVE

LEGEND

EXISTING



OR



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

ACP

ACP

ACP

ACP

ACP

ACP

ACP

ACP

ACP

ACP

ACP

ACP

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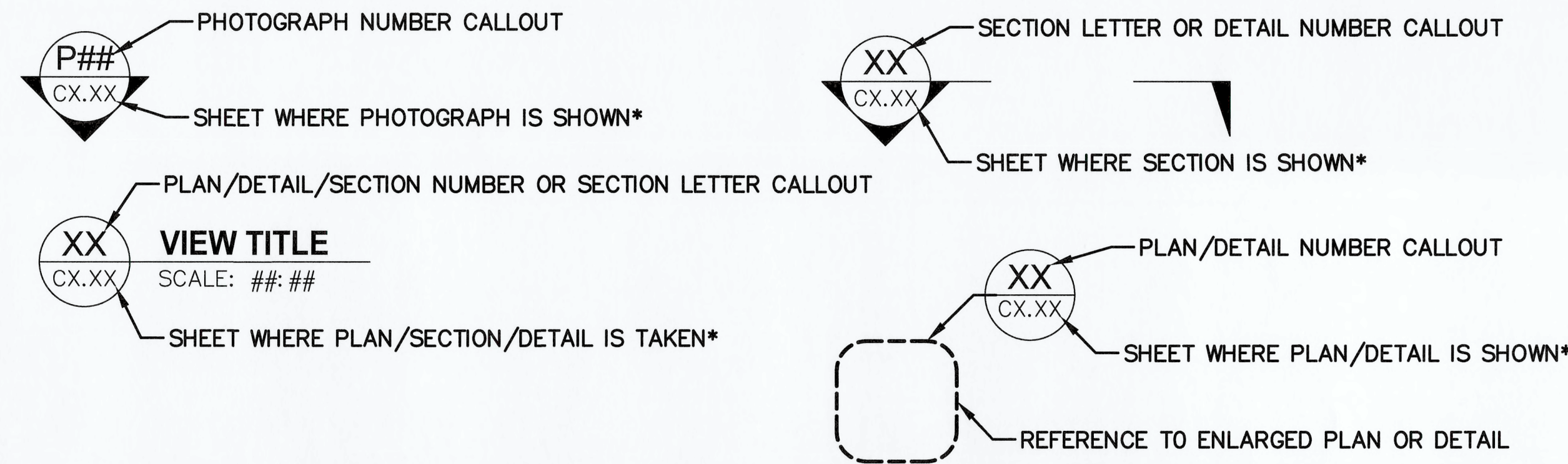
ACP

ACP

ACP

ACP

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.

Port of Tacoma  
P.O. BOX 1037 TACOMA, WA 98401-2338/0484

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(206) 622-0222

DATE: \_\_\_\_\_

APPR: \_\_\_\_\_

BY: \_\_\_\_\_

REVISION: \_\_\_\_\_

MARK: \_\_\_\_\_

5/19/2023

APPROVED: *A. Patterson*

T. HOWARD  
DIRECTOR ENG. DATE: 5/16/23

PRINTED BY: apatterson May 03, 2023

PORT ADDRESS: ONE SITCUM PLAZA  
TACOMA, WA 98401-1837

PIERCE COUNTY TERMINAL  
OPERATIONAL PAVEMENT REPAIRS 2022  
GENERAL NOTES, ABBREVIATIONS & LEGEND

TOWNSHIP: ZON RANGE: 3E SECTION: \_\_\_\_\_

DAT-HRZN:AD83/2007 VERT: MLLW

PARCEL: \_\_\_\_\_ DRAWING SCALE: AS NOTED

N. COLSON 5/9/23

CHECKED BY: DATE: 5/9/23

A. PATTERSON 5/9/23

PROJ. ENGR DATE: \_\_\_\_\_

6690

**G1.02**

SHEET 2 OF 16

CONT/CONS: 07/1898

M. ID: 201038.02

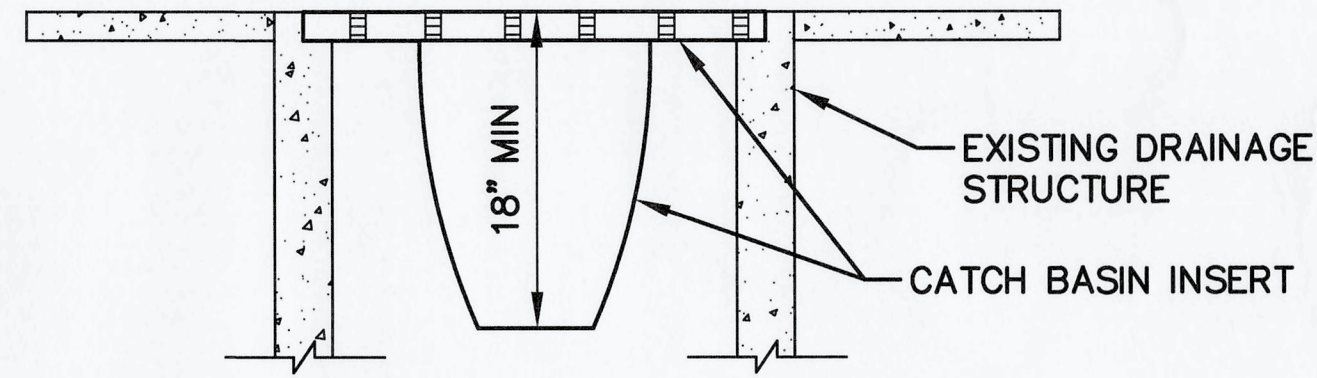
PHASE: BID SET

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**TEMPORARY EROSION & SEDIMENT CONTROL (TESC) NOTES:**

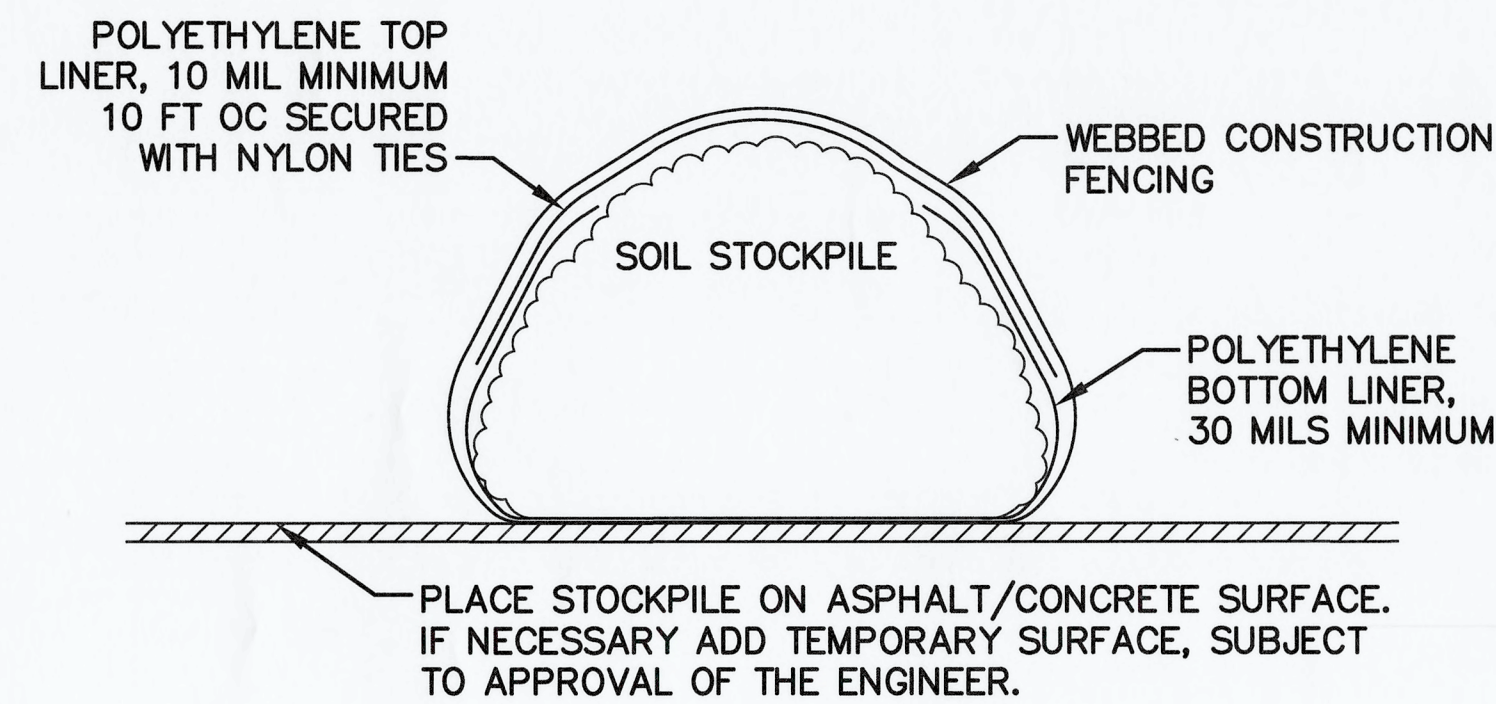
- A. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS SECTION 01 57 13.
- B. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED TO PREVENT ERODED SEDIMENT AND TURBID WATER FROM ENTERING THE STORM DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES DURING AND FOLLOWING 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

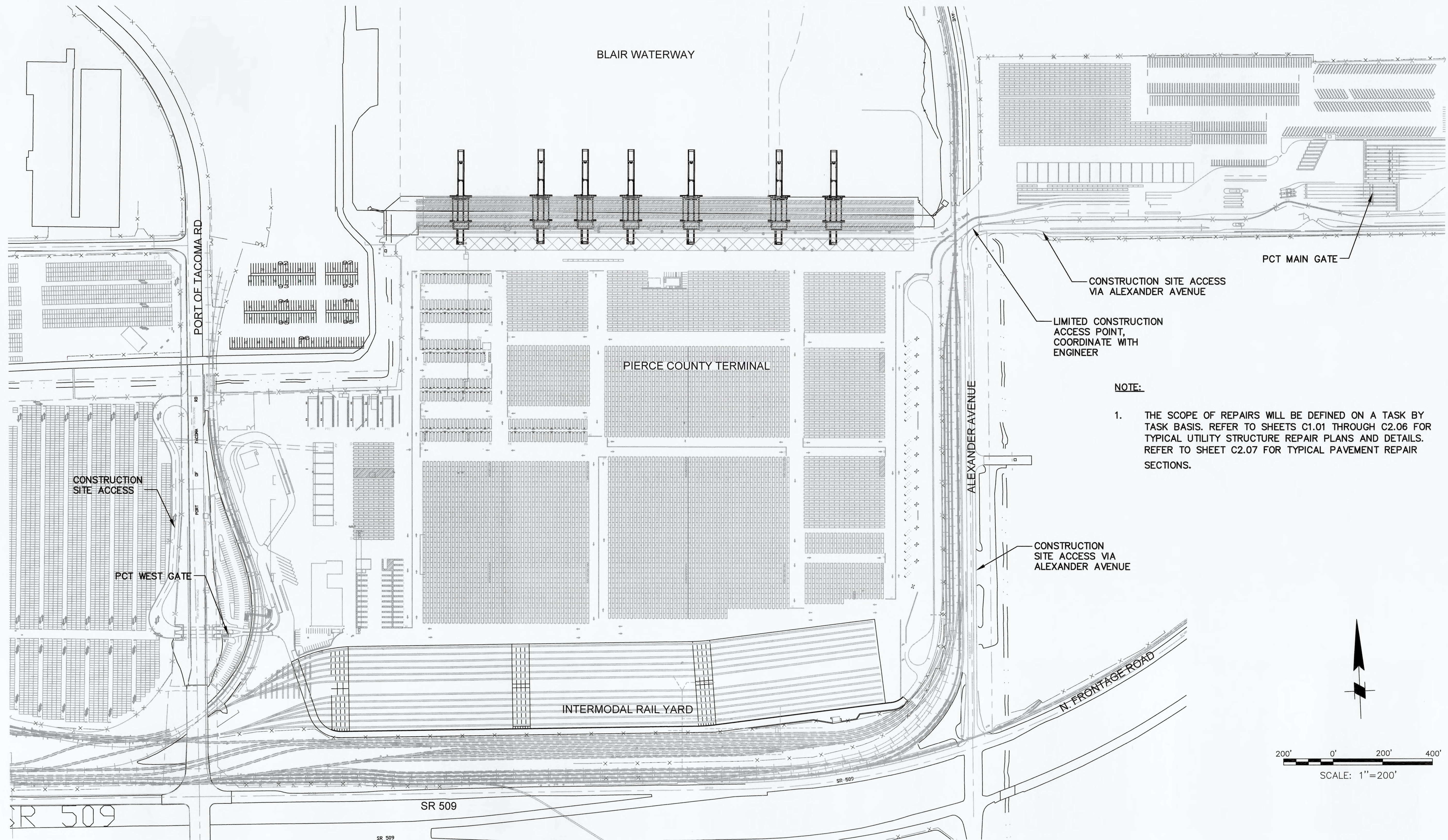


**2**  
—  
**SOIL MANAGEMENT AREA STOCKPILE WRAP**  
SCALE: NTS

<b>6690</b> <b>G1.03</b> SHEET 3 OF 16 CONT/CONS: 071898 M. ID: 201038.02 PHASE: BID SET	<b>PIERCE COUNTY TERMINAL</b> <b>OPERATIONAL PAVEMENT REPAIRS 2022</b> TESC DETAILS		TOWNSHIP: 20N RANGE: 3E SECTION:	DATE: 201038.02 DAT-HRZ:NAD83/2007 VERT: MLLW PARCEL:	DRAWING SCALE: AS NOTED
	APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENG. DATE:	N. COLSON CHECKED BY: DATE: 5/5/23 A. PATTERSON PROJ. ENGR DATE: 5/5/23	PRINTED BY: apatterson DATE: May 03, 2023 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	N. COLSON 5/5/23 CHECKED BY DATE: 5/5/23 A. PATTERSON 5/5/23 PROJ. ENGR DATE: 5/5/23 PRINTED BY: apatterson May 03, 2023 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	
moffatt & nichol 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 622-0222		Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206) 835-5841			
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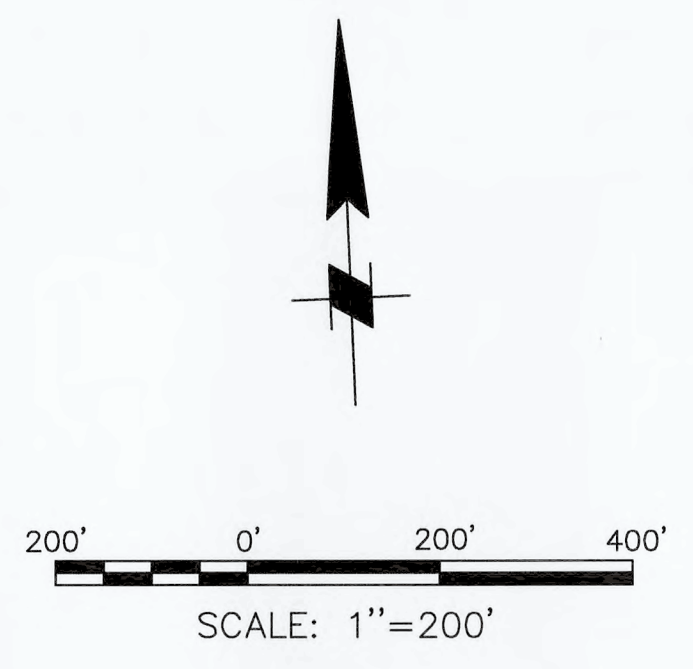




**SITE PLAN**  
SCALE: 1"=200'

**NOTE:**

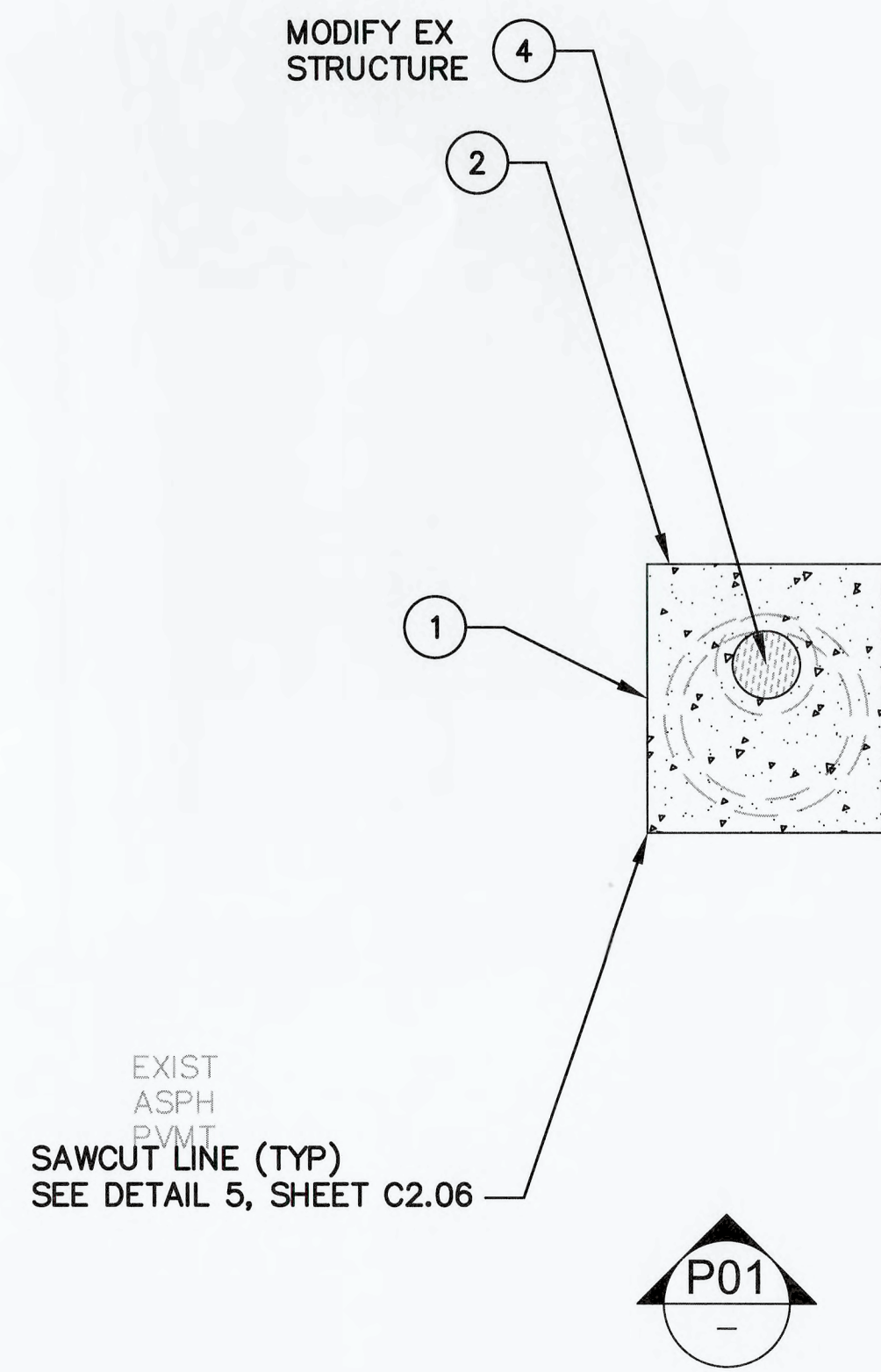
1. THE SCOPE OF REPAIRS WILL BE DEFINED ON A TASK BY TASK BASIS. REFER TO SHEETS C1.01 THROUGH C2.06 FOR TYPICAL UTILITY STRUCTURE REPAIR PLANS AND DETAILS. REFER TO SHEET C2.07 FOR TYPICAL PAVEMENT REPAIR SECTIONS.



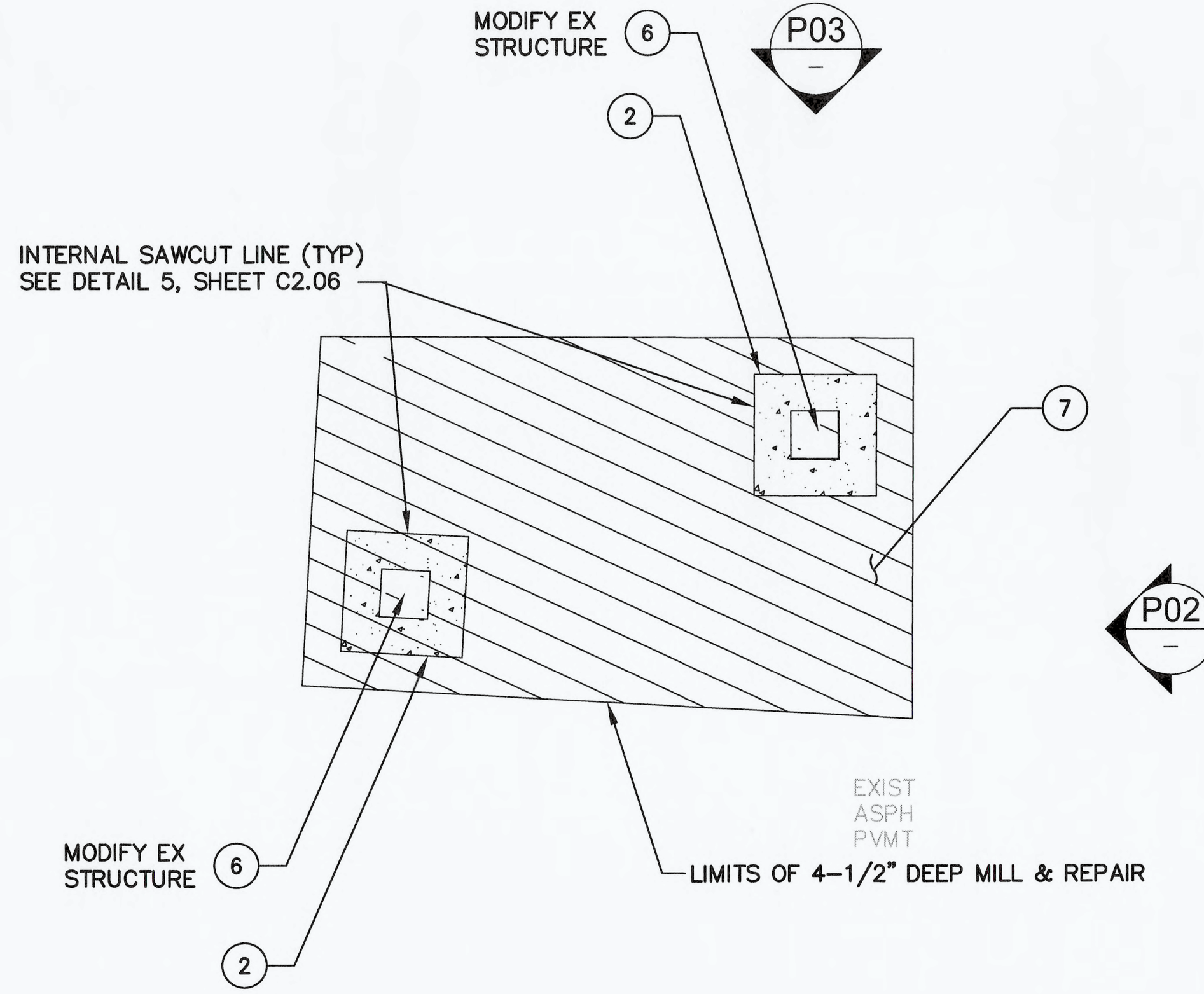
<b>6690</b> <b>C0.00</b> SHEET 4 OF 16 CONTS/CONS: 071898 M. ID: 201038.02 PHASE: BID SET	<b>PIERCE COUNTY TERMINAL</b> <b>OPERATIONAL PAVEMENT REPAIRS 2022</b> SITE PLAN			APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENG. DATE: 5/3/23 PRINTED BY: apatterson PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	N. COLSON CHECKED BY: A. PATTERSON DATE: 5/3/23 DATE: 5/3/23 DATE: May 03, 2023 DATE: SITCUM PLAZA
	moffatt & nichol 600 UNIVERSITY STREET, SUITE 610 TACOMA, WA 98401 (253) 822-0222	MARK: REVISION: BY: APPR: DATE:			

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**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.



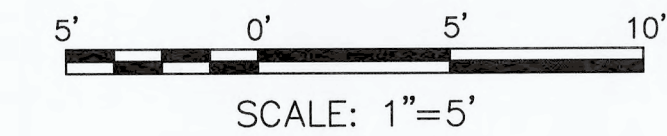
**P01** TYPICAL OWS


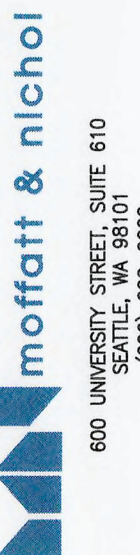
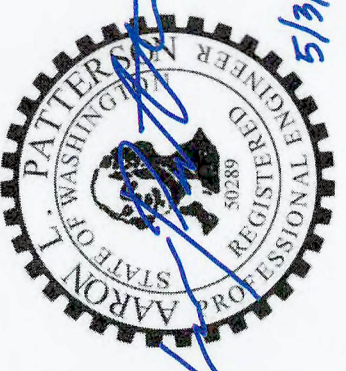


**P02** TYPICAL VALVE BOX



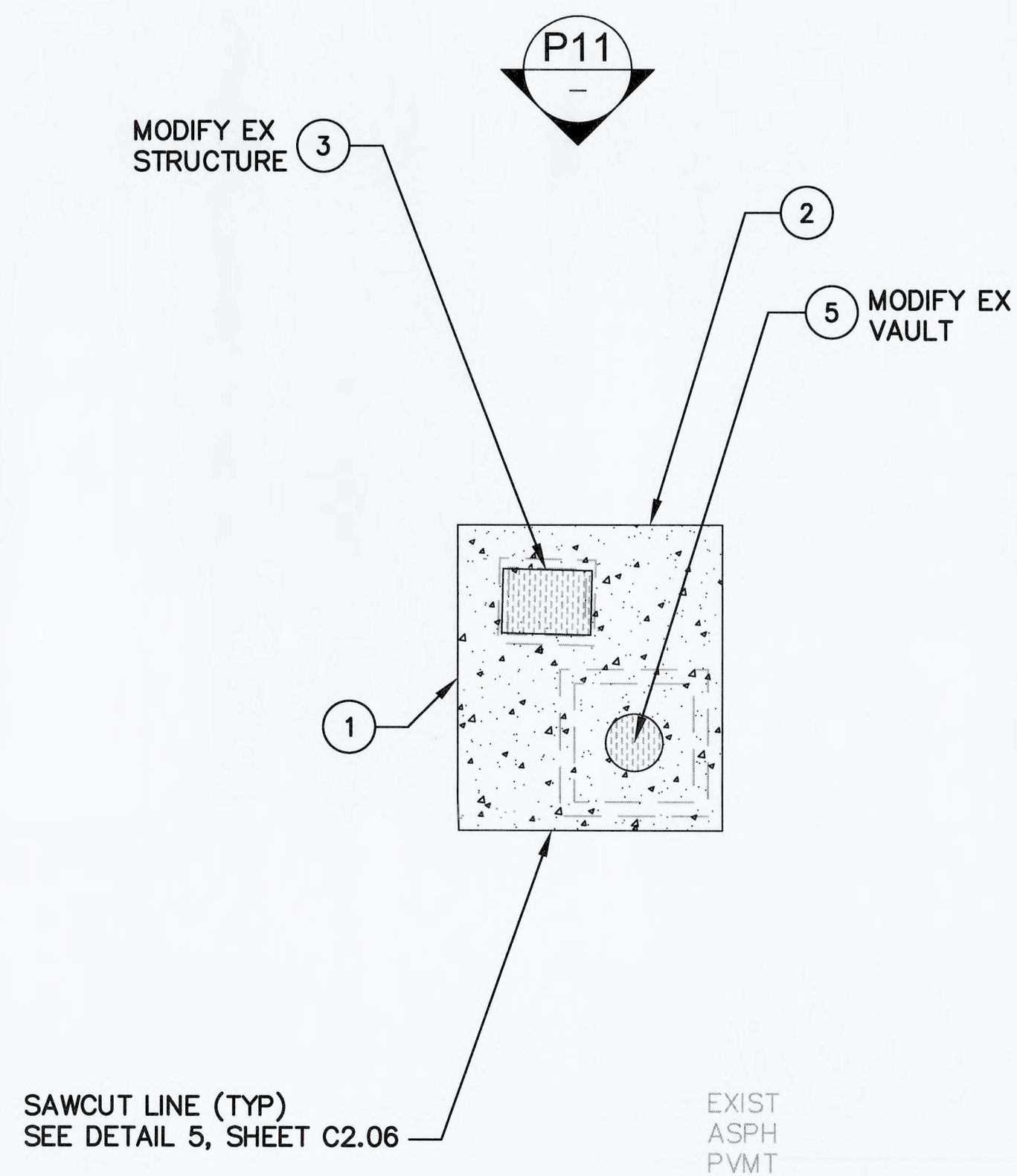
**P03** TYPICAL VALVE BOX



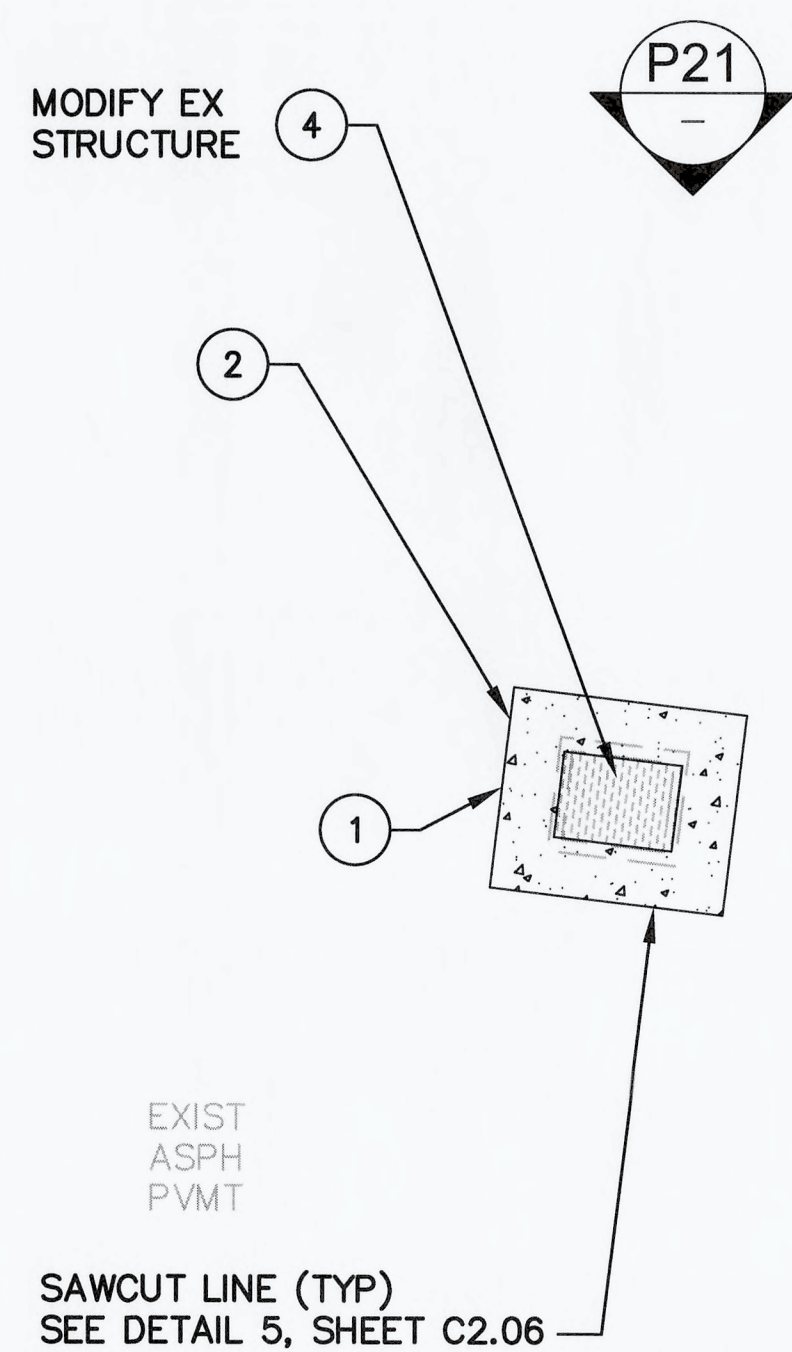
 Port of Tacoma <small>P.O. BOX 1837 TACOMA, WA 98401-1837</small>	 moffatt & nichol <small>600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 206.462.0222</small>		MARK: _____ REVISION: _____ BY: _____ DATE: _____
			
	N. COLSON 5/3/23 CHECKED BY DATE A. PATTERSON 5/3/23 PROJ. ENGR DATE PRINTED BY: apatterson May 03, 2023 PORT ADDRESS: ONE SIFUM PLAZA TACOMA, WA 98401-1837		
<b>PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 01</b>			
TOWNSHIP: 20N RANGE: 3E SECTION: DAT-HRZ: NAD83 / 2007 VERT: MLLW PARCEL: _____ DRAWING SCALE: AS NOTED			
6690 <b>C1.01</b> SHEET 5 OF 16 CONT/CONS: 071898 M. ID: 201038.02 PHASE: BID SET			

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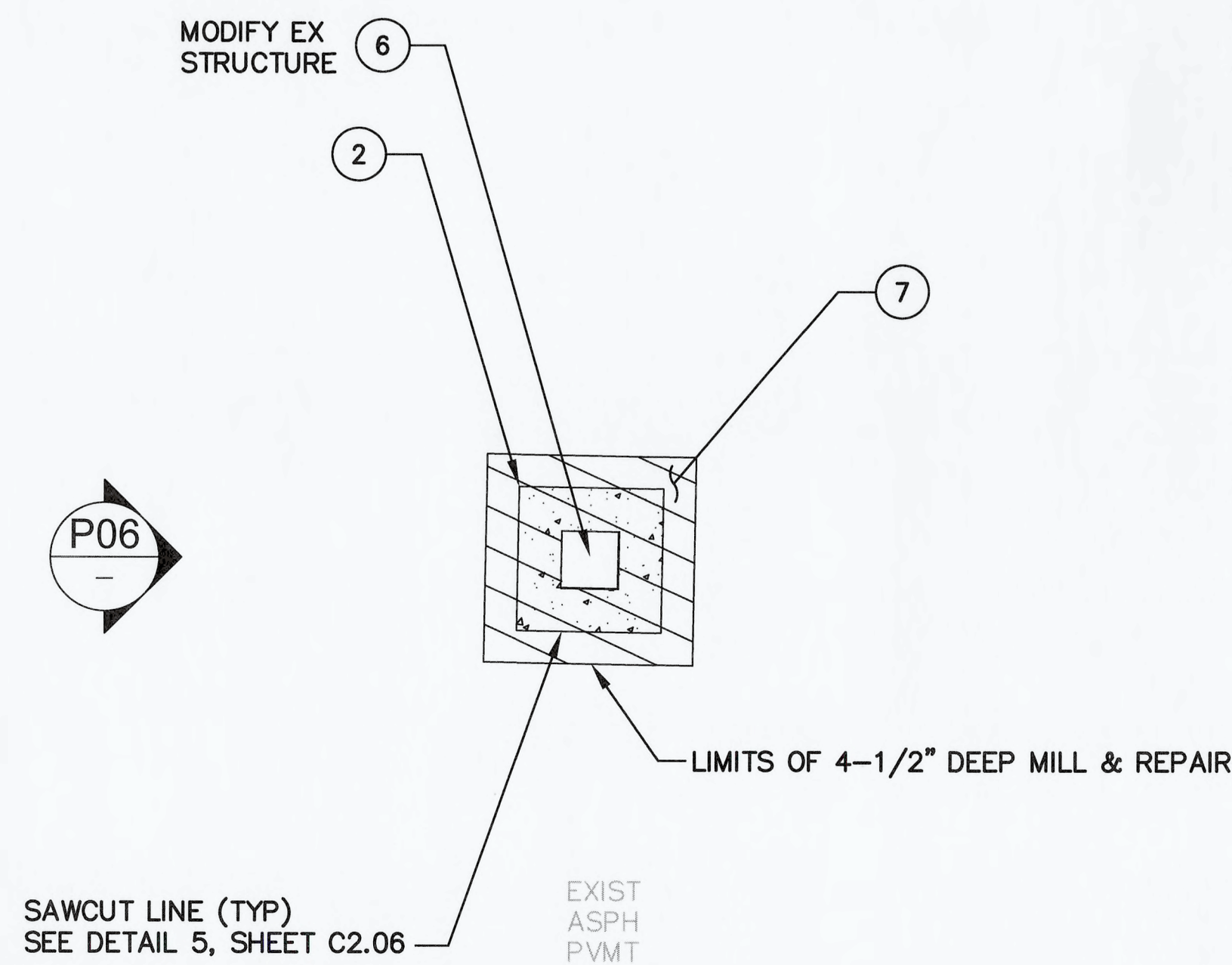




**11** TYPICAL CB (TYPE 1L CB) & CPV (POWER VAULT)  
SCALE: 1" = 5'



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



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

**STD CONSTRUCTION NOTES:**

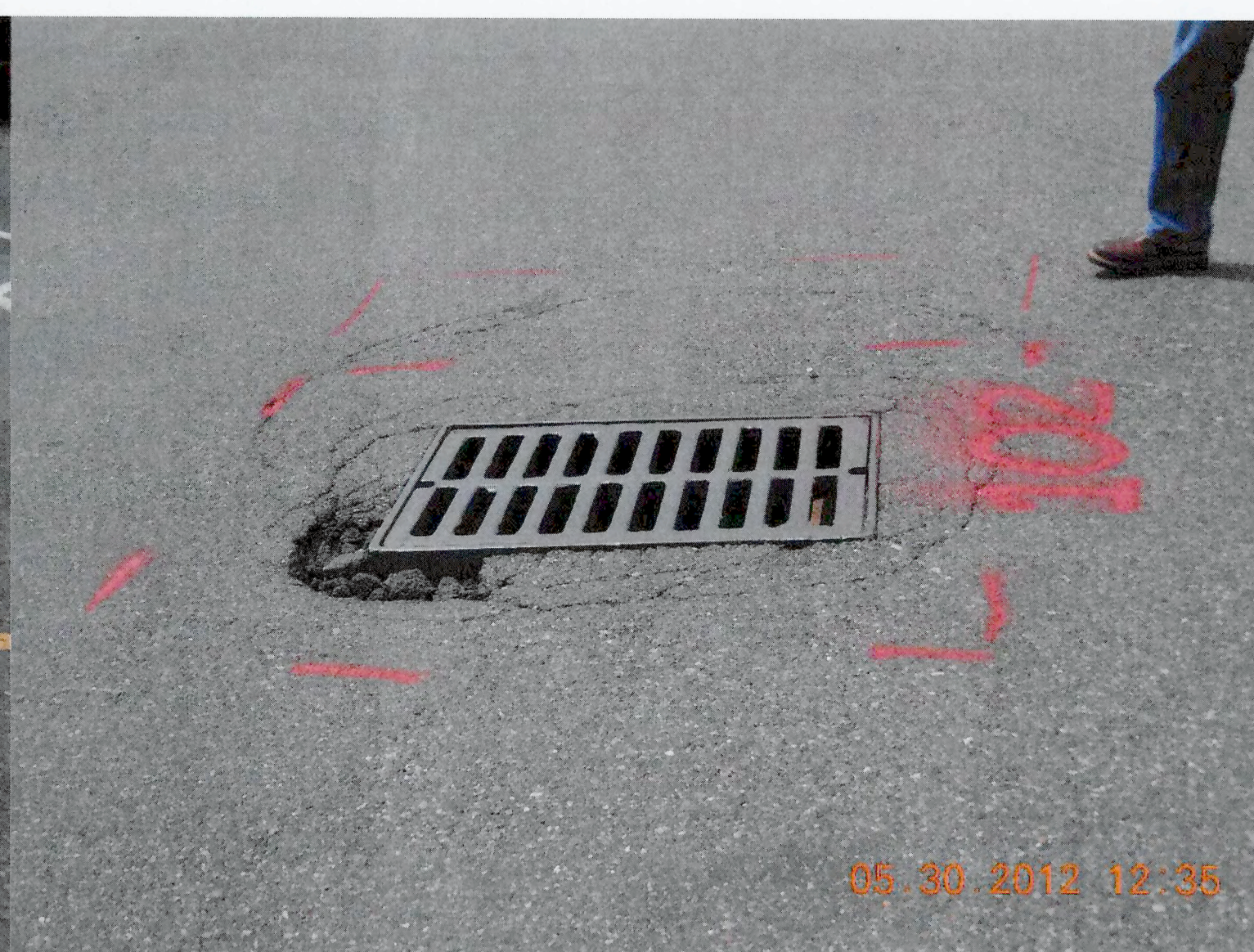
- ① LIMITS OF ACP REMOVAL.
- ② LIMITS OF REINF CONC SLAB.
- ③ ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- ④ ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- ⑤ ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- ⑥ ADJUST WATER VALVE BOX AND RESTORE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



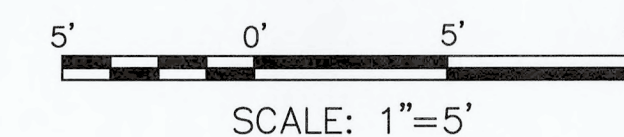
**P11** TYPICAL SD & CPV



**P21** TYPICAL CB

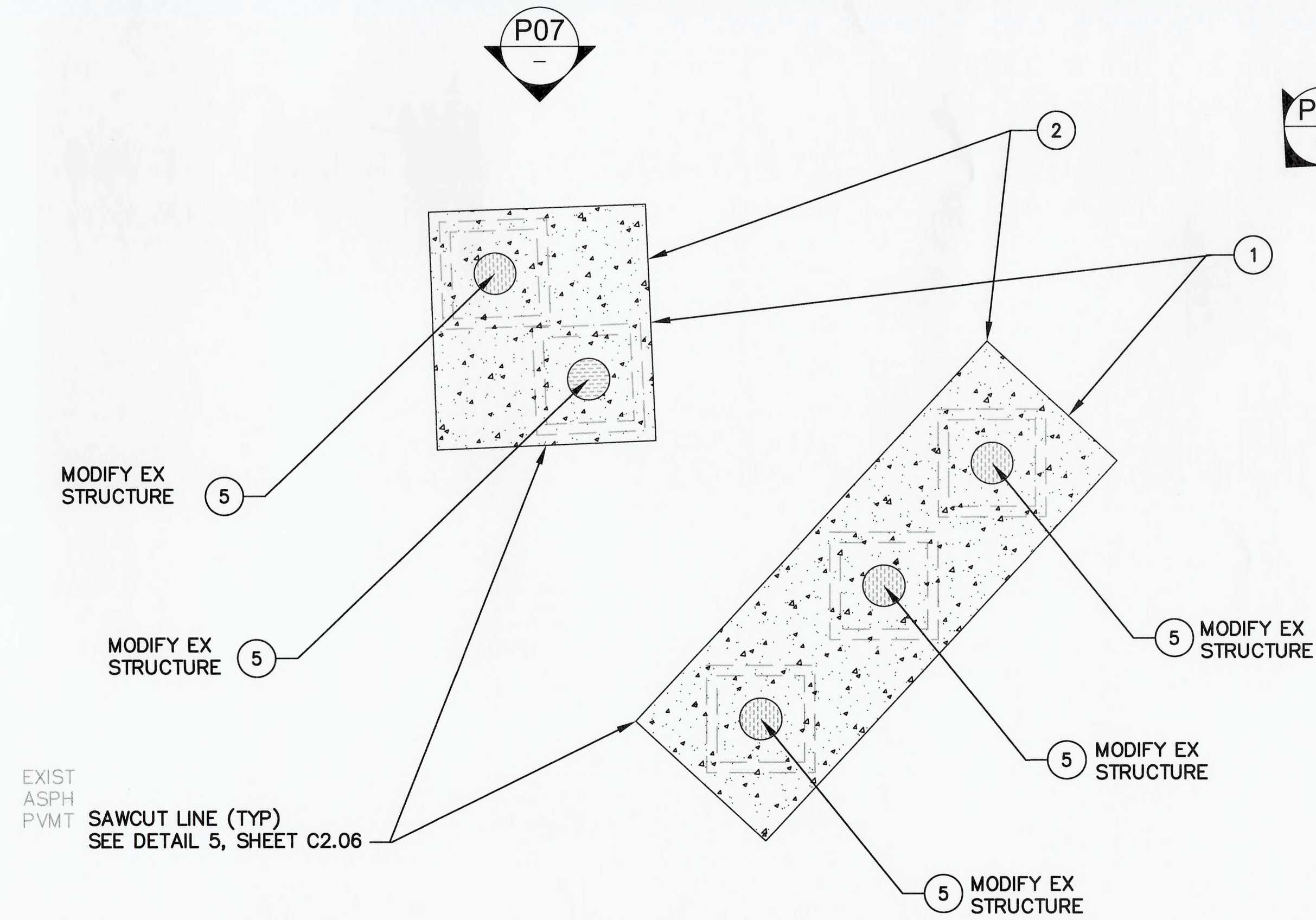


**P06** TYPICAL VALVE BOX

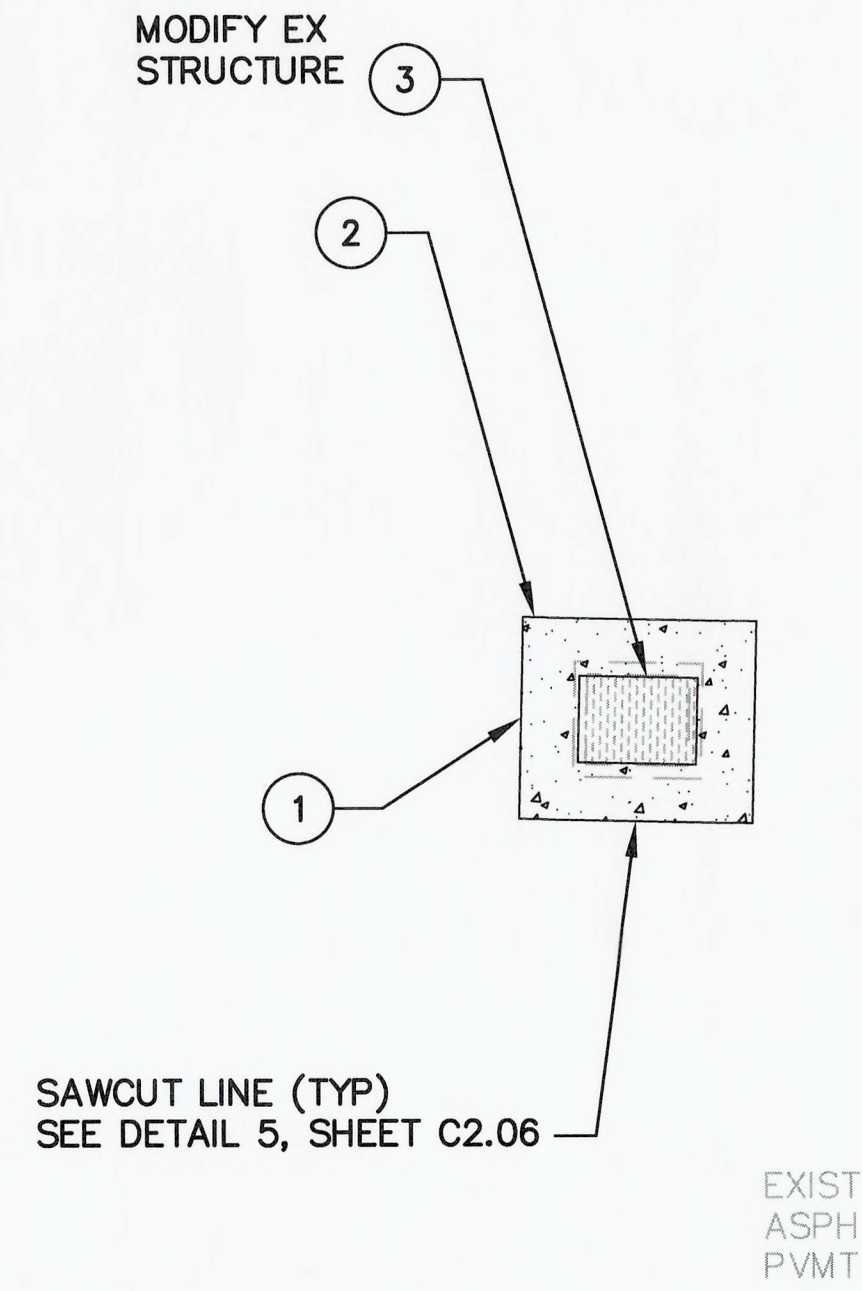


		N. COLSON CHECKED BY DATE A. PATTERSON 5/3/23 T. HOWARD DIRECTOR ENGR. DATE PRINTED BY: apatterson May 03, 2023 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	DATE: 5/3/2023 APPR: [Signature] BY: [Signature] REVISION: [Signature]
		PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 02	TOWNSHIP: 20N RANGE: 3E SECTION: MILLW DAT-HRZ: NAD83/2007 VERT: MILLW PARCEL: [Signature]
6690 <b>C1.02</b> SHEET 6 OF 16 CONT/CONS: 071898 M. ID: 201038.02 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		





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



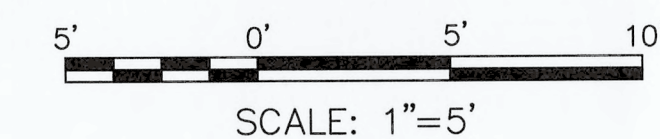
P09 TYPICAL CB

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:

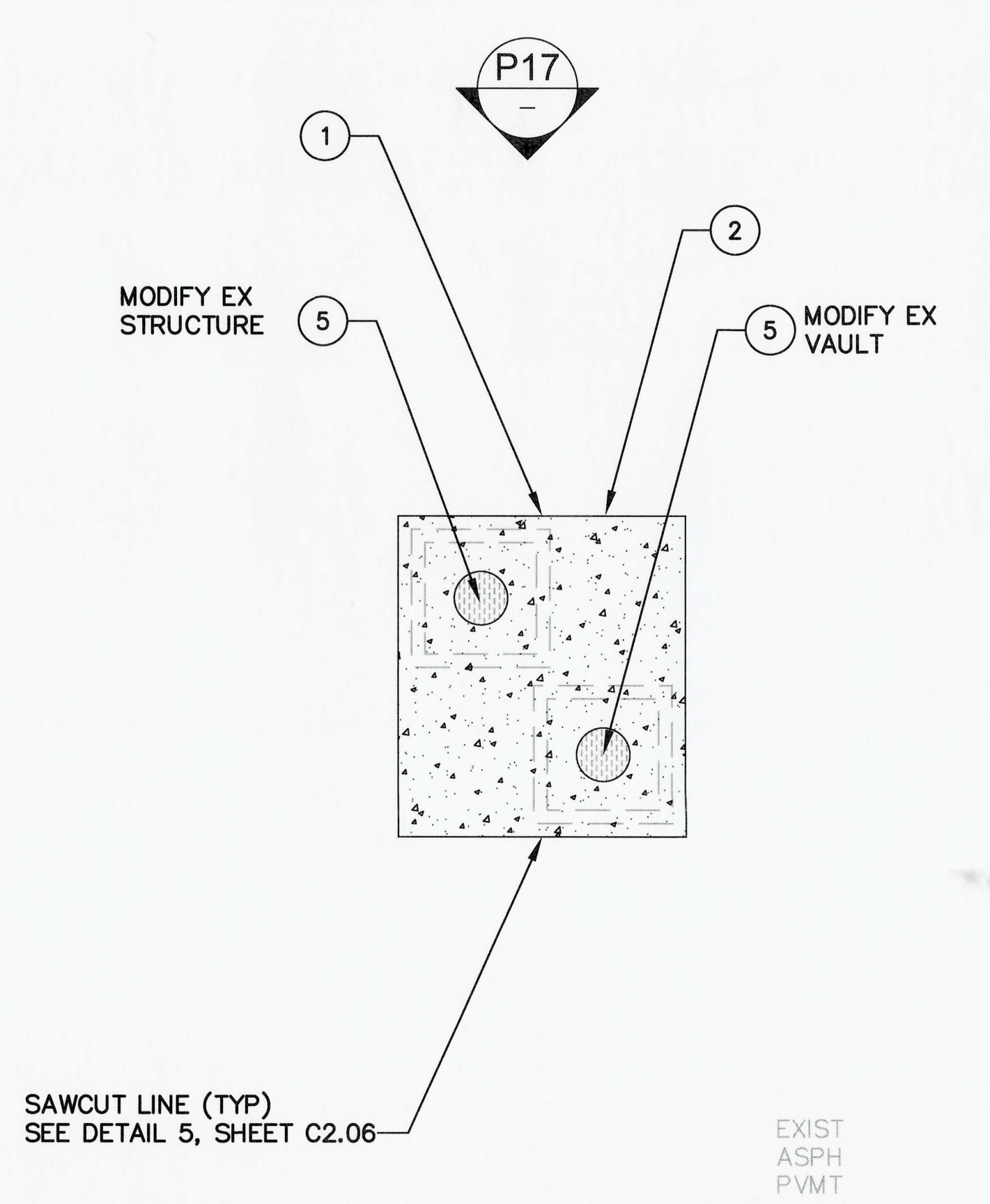
1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



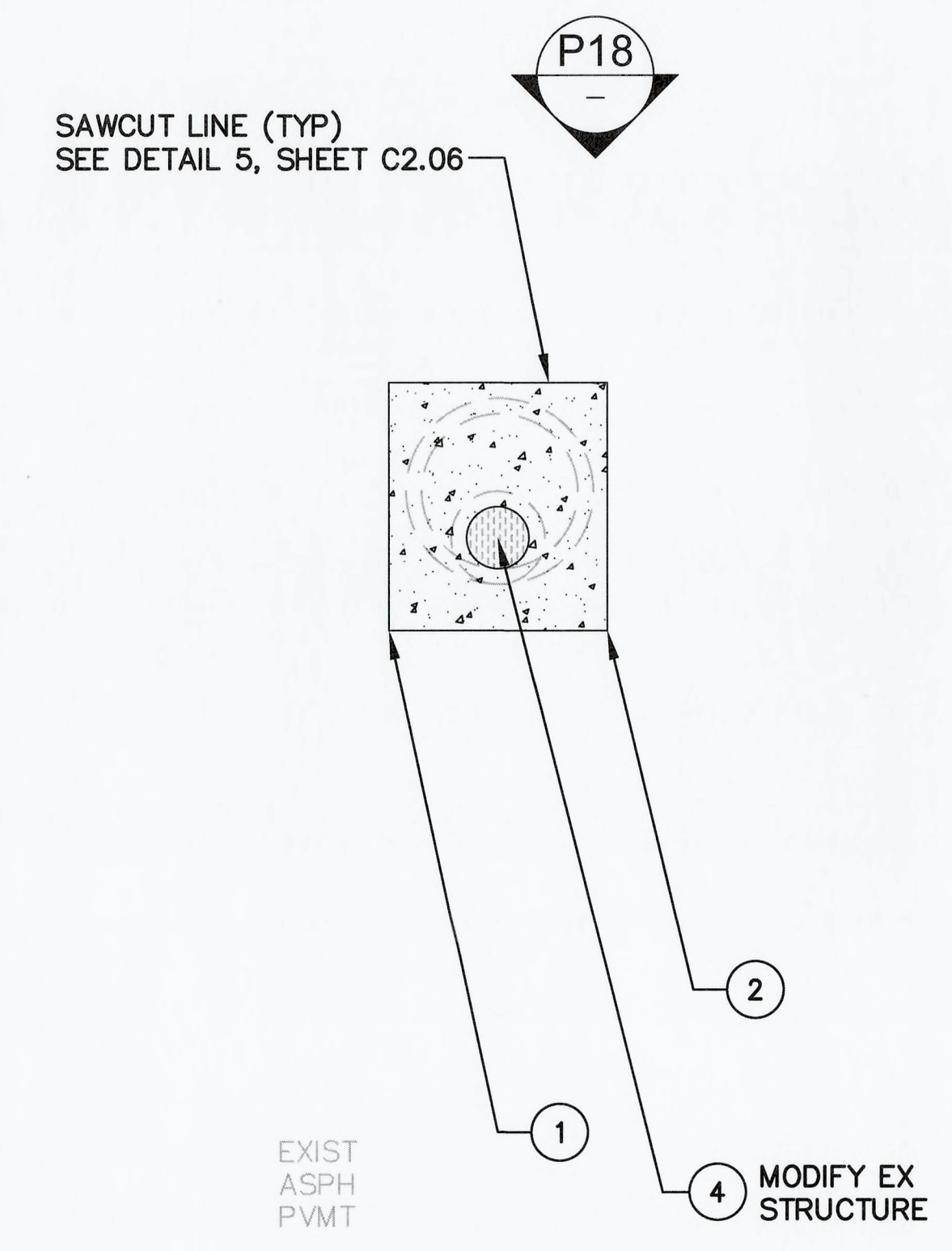
		P.O. BOX 1837 TACOMA, WA 98401-1837 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 822-0222	MARK: _____ REVISION: _____ BY: _____ APPR: _____ DATE: _____
		N. COLSON 5/3/23 CHECKED BY DATE A. PATTERSON 5/3/23 PROJ. ENGR DATE PRINTED BY: gpaterson May 03, 2023 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	APPROVED: <i>T. Howard</i> DIRECTOR ENG. DATE TOWNSHIP: 20N RANGE: 3E SECTION: M. ID.: 201038.02 DAT-HRZ: NAD83/2007 VERT: MLLW PHASE: BID SET PARCEL: _____ DRAWING SCALE: AS NOTED
<b>6690 C1.03</b> SHEET 7 OF 16 OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 03		PIERCE COUNTY TERMINAL ENLARGED UTILITIES PLAN 03	

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**17** TYPICAL PV & SV (POWER / COMM VAULT)  
SCALE: 1" = 5'



**18** TYPICAL SD (TYPE 2 CB)  
SCALE: 1" = 5'



**P17** TYPICAL PV & SV



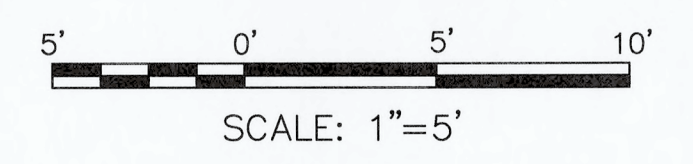
**P18** TYPICAL CB

**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:**

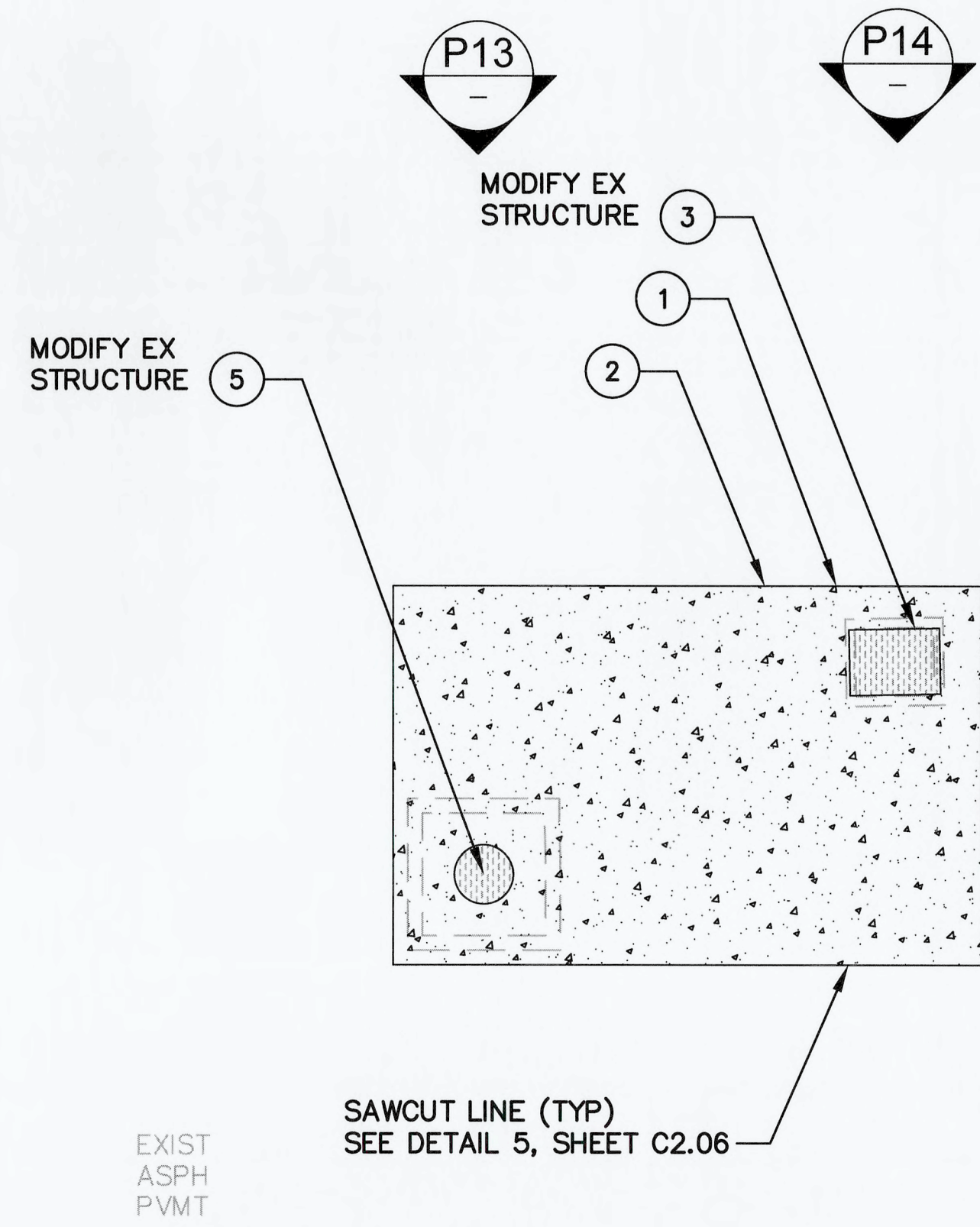
1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



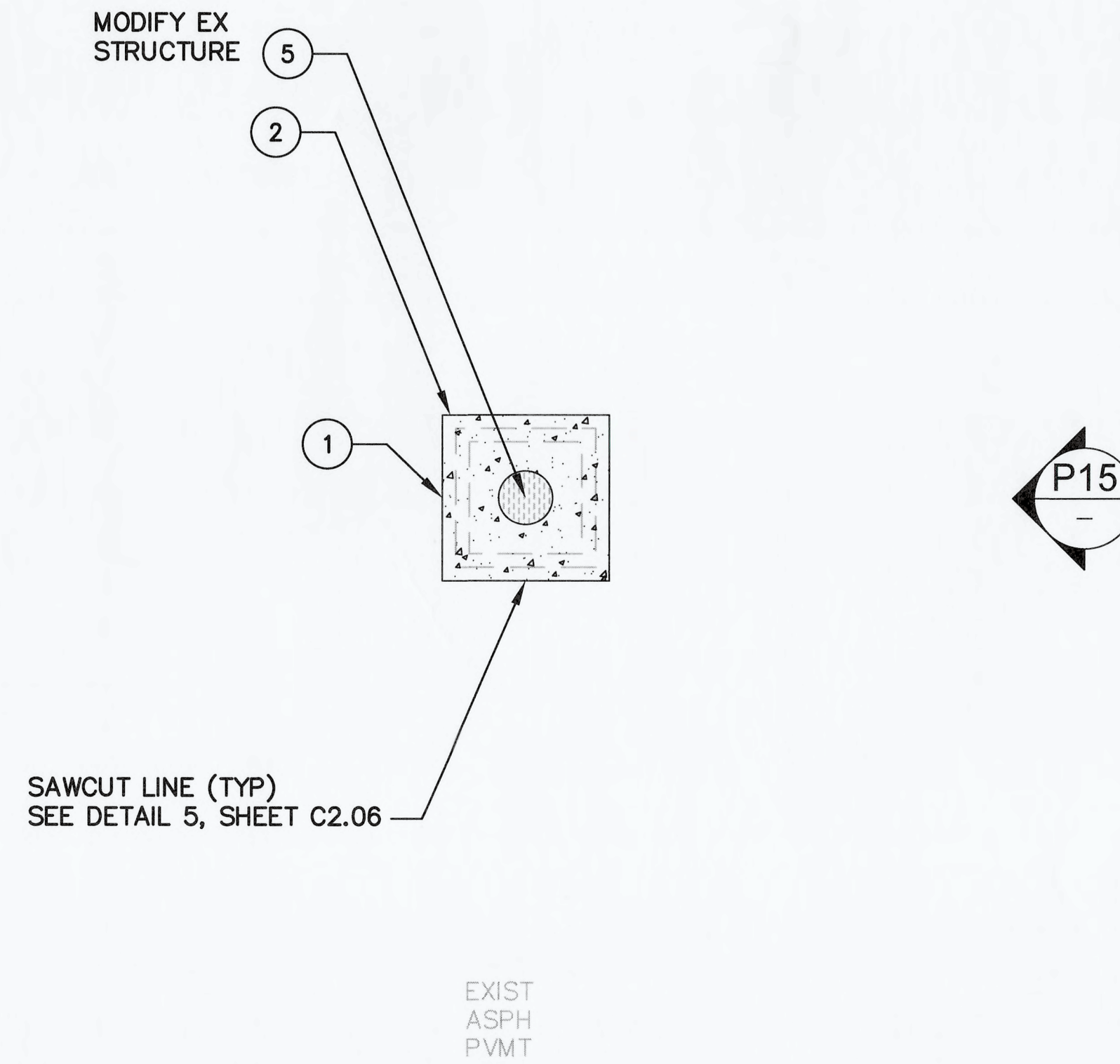
 Port of Tacoma <small>P.O. BOX 837 TACOMA, WA 98401 (253) 838-5841</small>	 moffatt & nichol <small>600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 422-1222</small>	 A. PATTERSON REGISTERED PROFESSIONAL ENGINEER STATE OF WASHINGTON No. 19100 5/19/2023	N. COLSON 5/5/23 CHECKED BY DATE A. PATTERSON 5/3/23 PROJ. ENGR DATE T. HOWARD DIRECTOR ENG. DATE PRINTED BY: apatterson May 03, 2023 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
	APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENLARGED UTILITIES PLAN 04		
<b>6690</b> <b>C1.04</b> SHEET 8 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 04		
CONT/CONS: 071898 M. ID: 201038.02 PHASE: BID SET	TOWNSHIP: 20N DAT-HRZ-N: AD83/2007 RANGE: 3E SECTION: MILLW PARCEL:	DRAWING SCALE: AS NOTED	

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



**15** TYPICAL FOV (POWER VAULT)  
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.

**NOTES:**

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3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



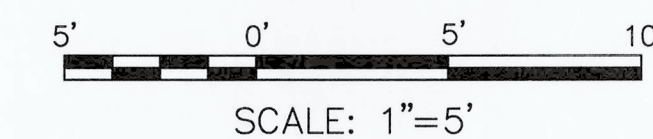
**P13** CPV



**P14** TYPICAL CB

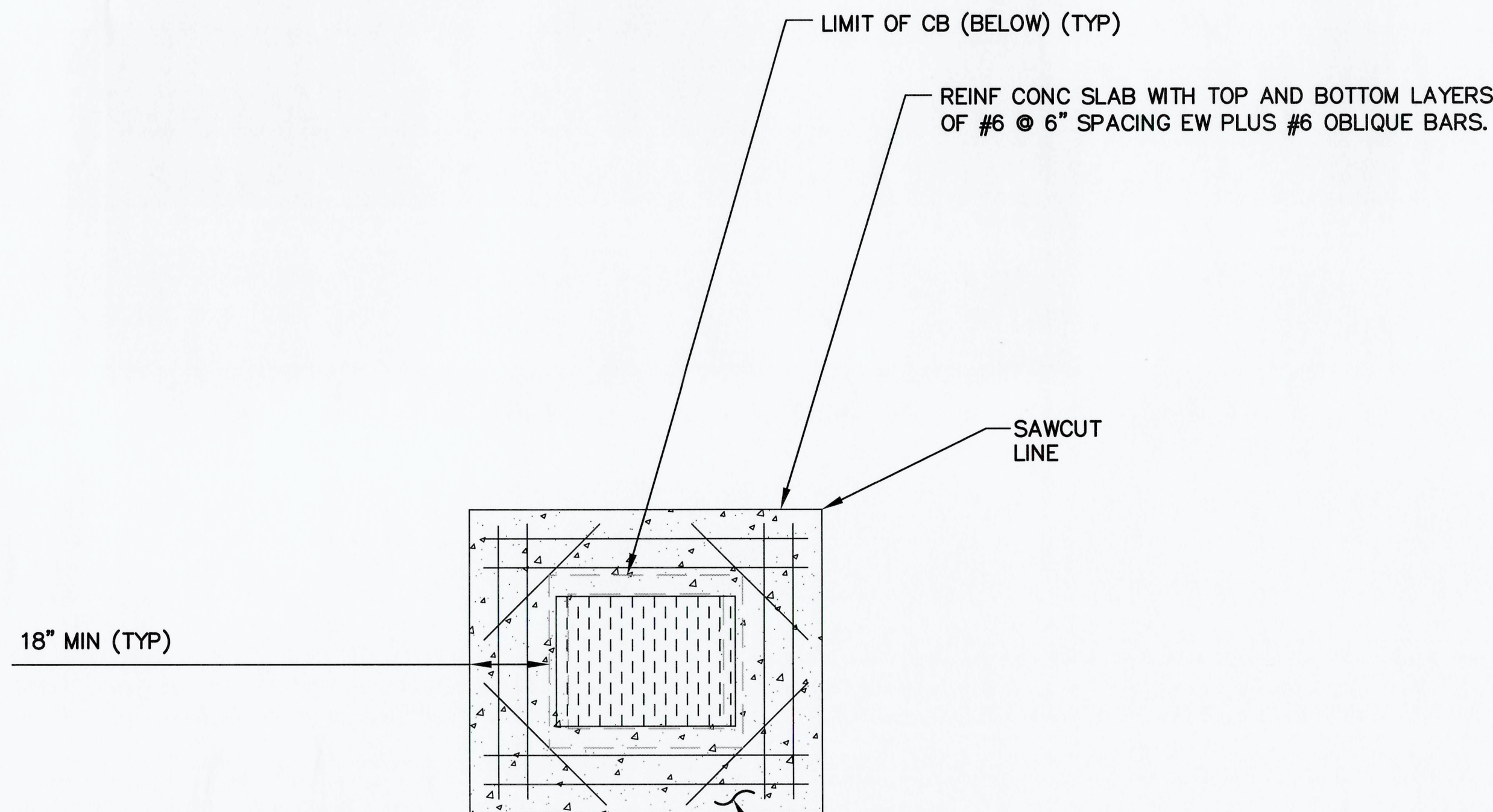


**P15** TYPICAL FOV

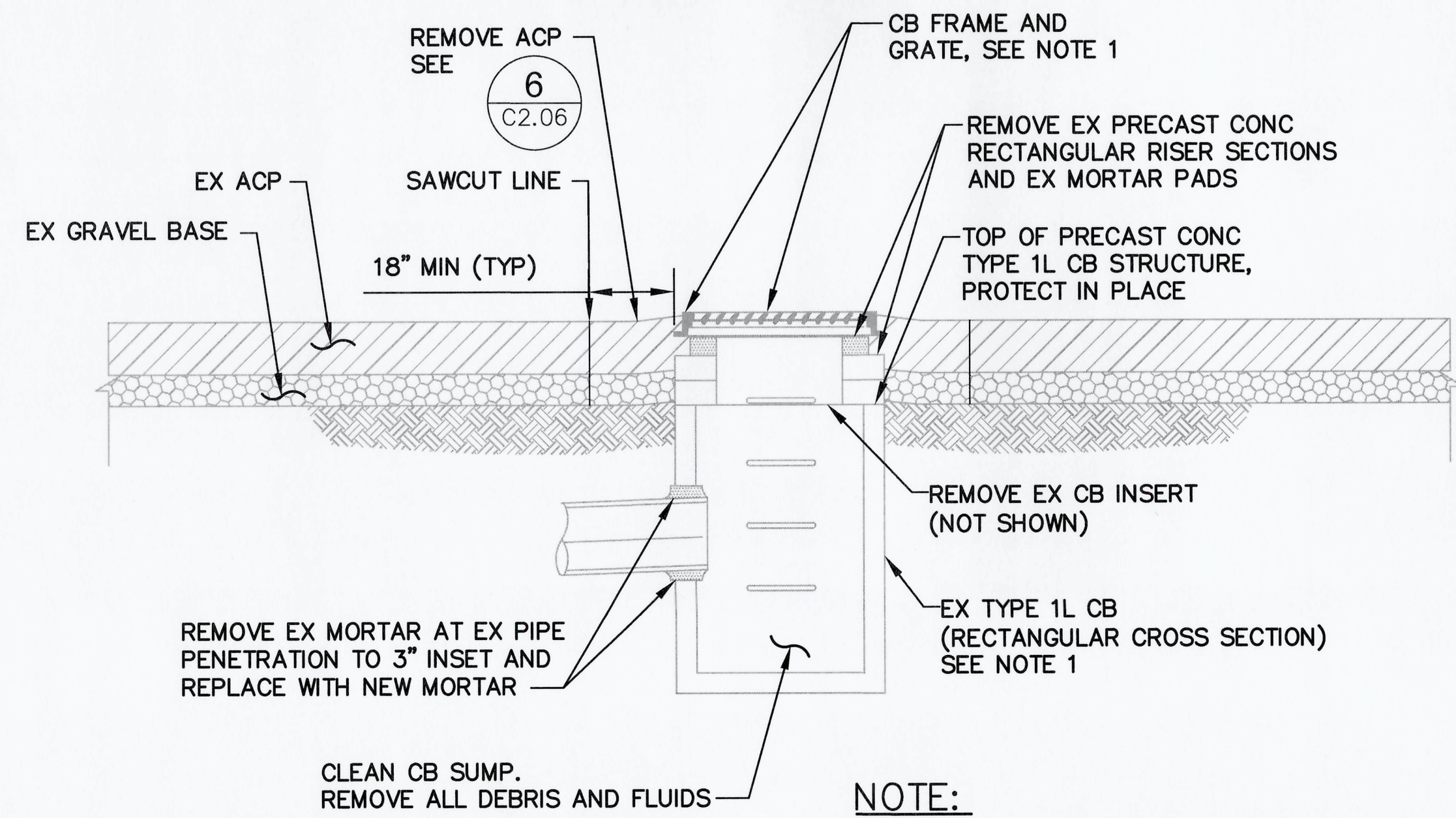


			N. COLSON 5/3/23 CHECKED BY DATE A. PATTERSON 5/3/23 T. HOWARD DIRECTOR ENG. DATE PRINTED BY: apatterson May 03, 2023 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
	600 UNIVERSITY AVENUE SUITE 610 SEATTLE, WA 98101 (206) 822-0222	MARK: REVISION: BY: DATE:	APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENG. DATE PRINTED BY: apatterson May 03, 2023 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
6690 <b>C1.05</b> SHEET 9 OF 16 CONT/CONS: 071888 M. ID: 201038.02 PHASE: BID SET	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 ENLARGED UTILITIES PLAN 05	TOWNSHIP: 20N RANGE: 3E SECTION: 3E DAT-HRZ: NAD83/2007 VERT: MLLW 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



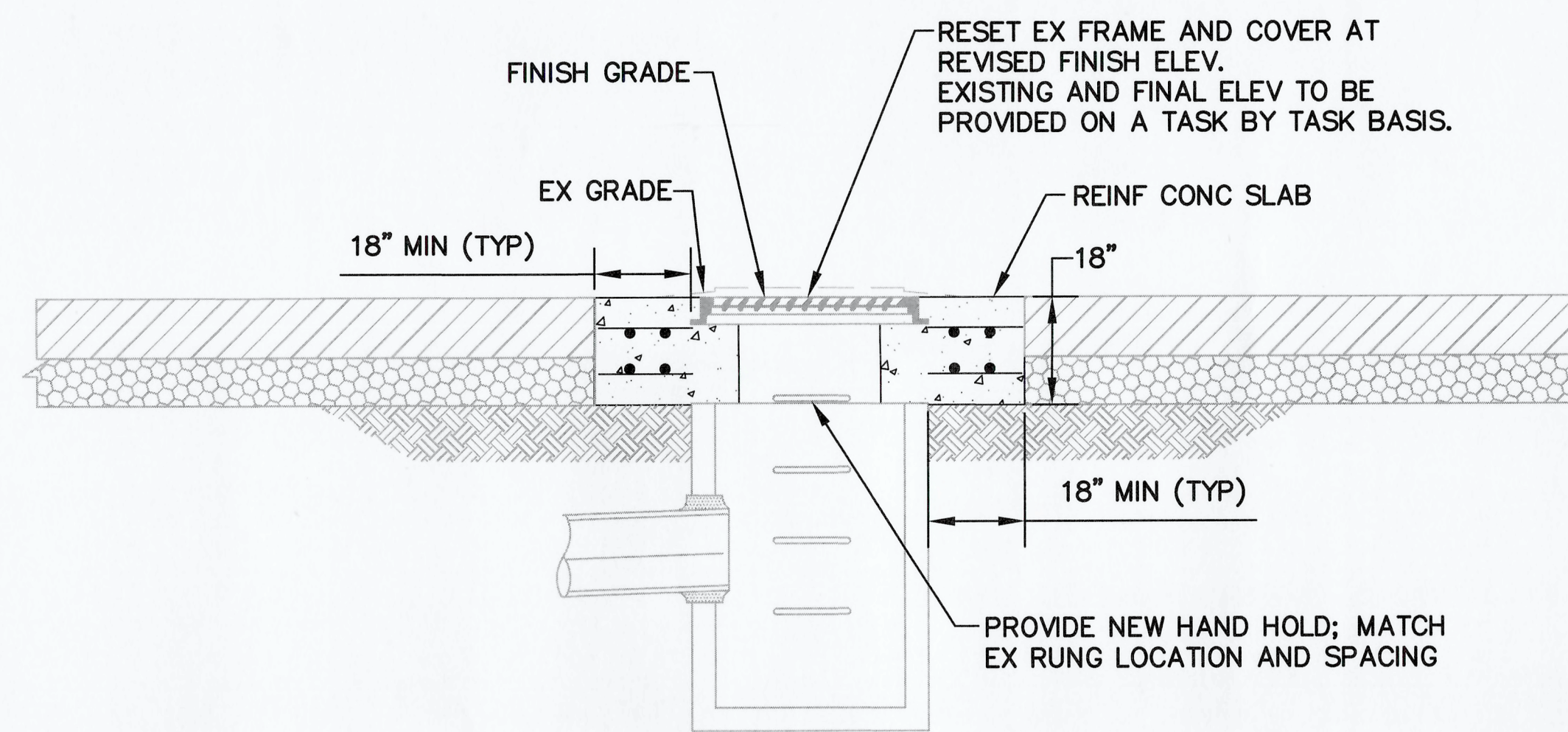


PLAN  
SCALE: 1"=2'



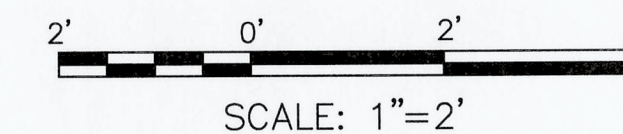
NOTE:  
1. DIMENSIONS OF EXISTING FRAMES AND GRATES ARE APPROX 27" X 37"; INTERNAL DIMENSIONS OF TYPE 1L CB ARE 28" X 32".

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

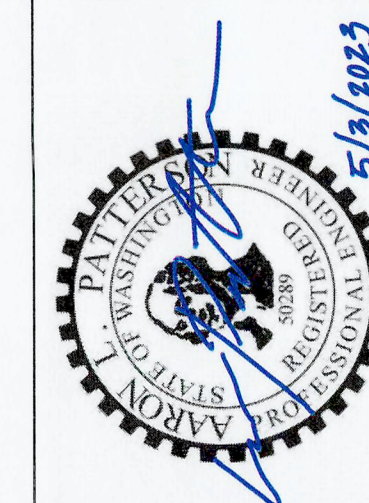
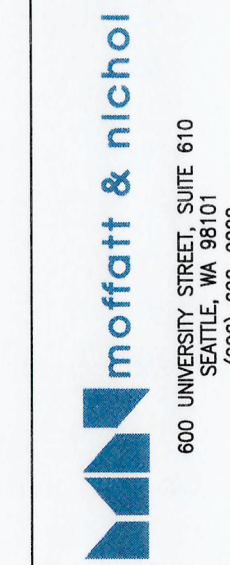


SECTION - FINISH CONDITION  
SCALE: 1"=2'

1 TYPICAL REHABILITATION OF TYPE 1L CB  
VARIES

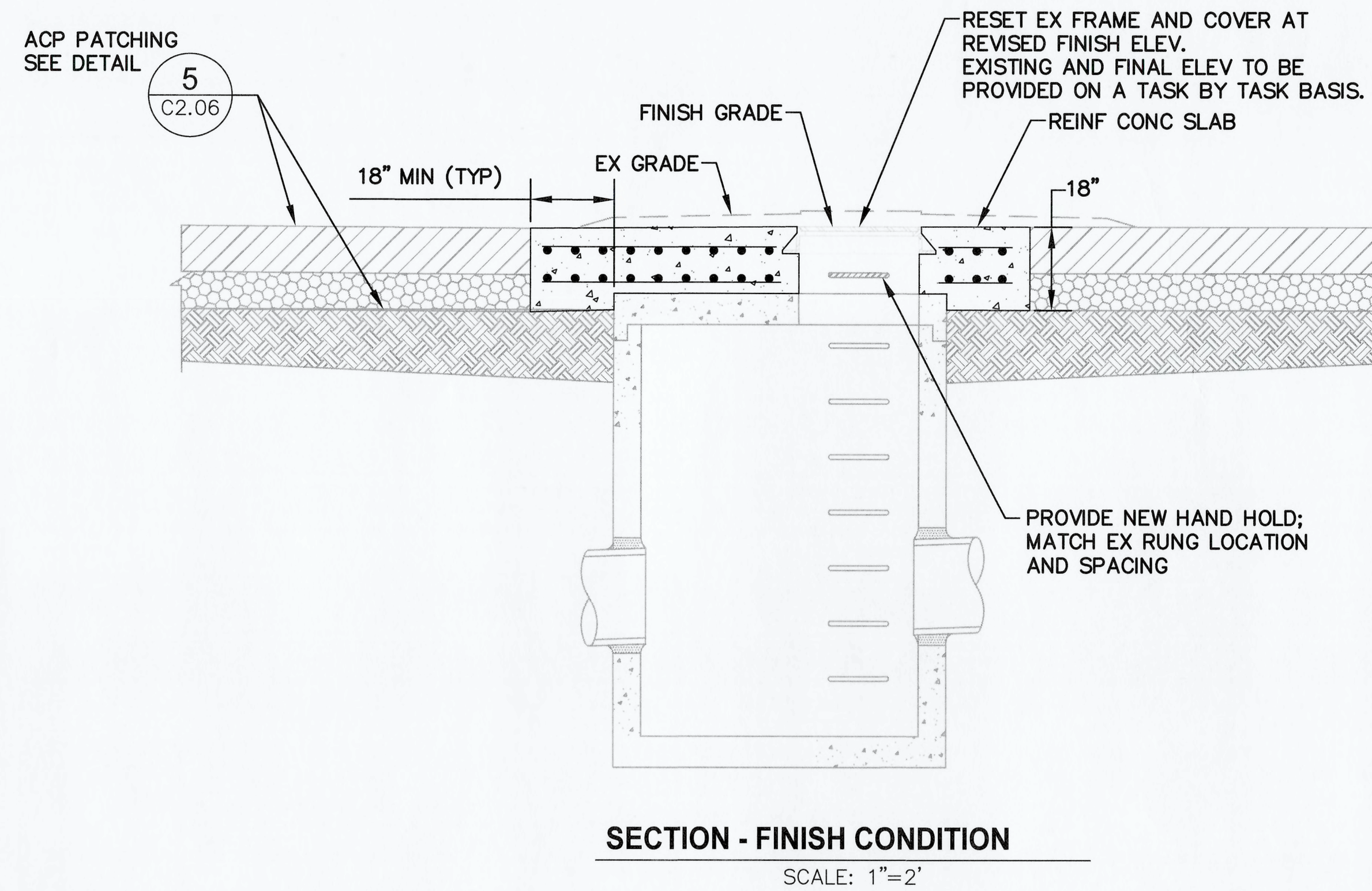
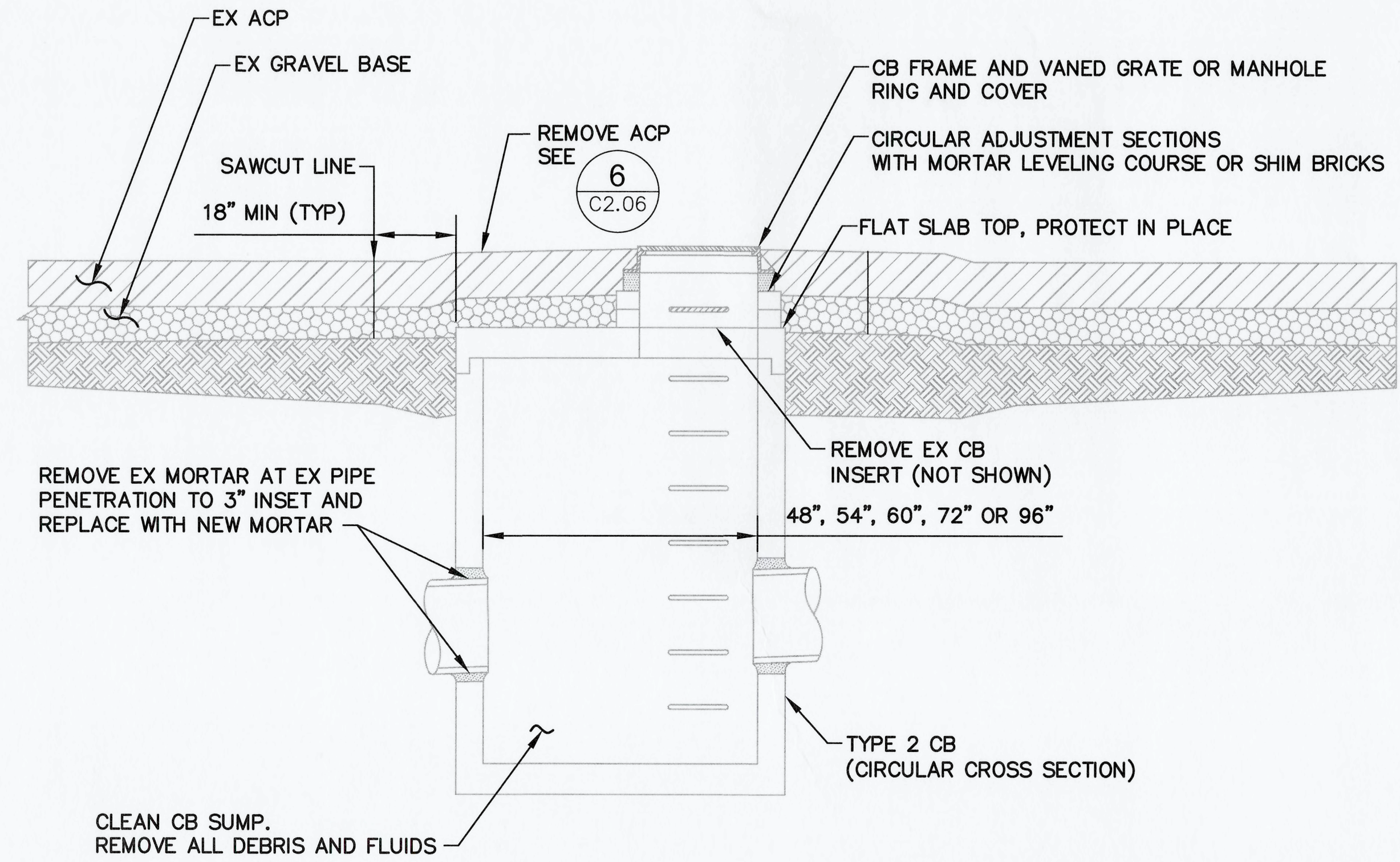
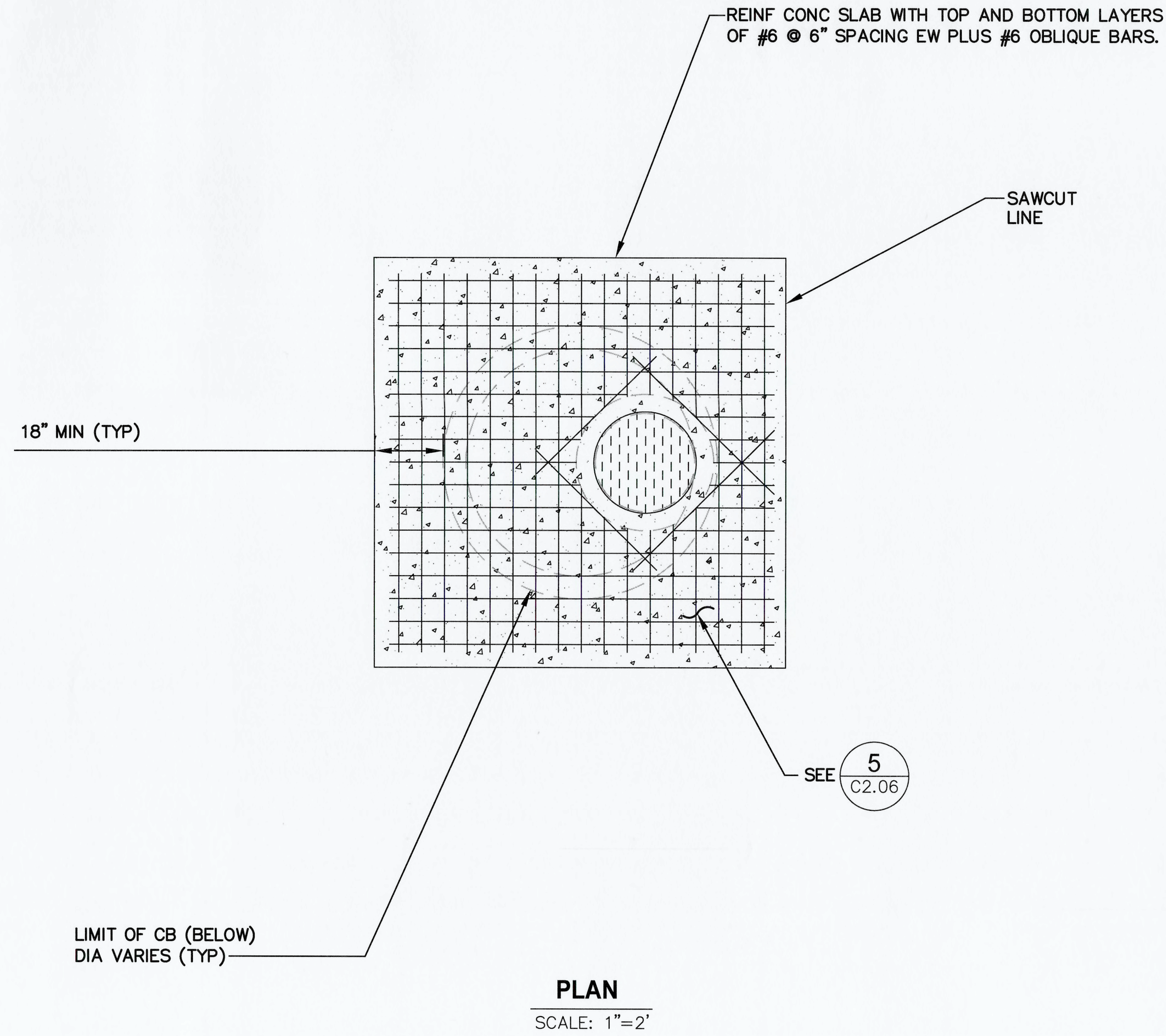


6690 SHEET 10 OF 16 C2.01	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 SITE DETAILS 01		APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR		N. COLSON 5/3/23 CHECKED BY DATE	
	CONTRACT: 071898	TOWNSHIP: 20N	RANGE: 3E	SECTION:	A. PATTERSON 5/3/23 PROJ. ENGR DATE	DATE
M. ID: 201038.02	DAT-HRZ: NAD83/2007	VERT: MLLW	PARCEL:	PRINTED BY: gpatterson	May 03, 2023	DATE
PHASE: BID SET	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		MARK:	REVISION:	BY:
				APPR:	DATE:	

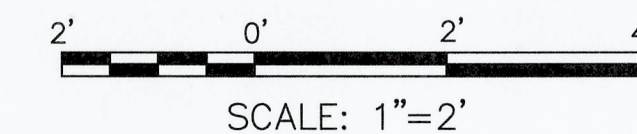


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2 VARIES TYPICAL REHABILITATION OF TYPE 2 CB



6690 C2.02 SHEET 11 OF 16

PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 SITE DETAILS 02

CONT./CONS:	071898	TOWNSHIP:	20N	RANGE:	3E	SECTION:	
M. ID:	201038.02	DATE-HRZ: NAD83/2007	VERT:	MLLW	DRAWING SCALE:	AS NOTED	
PHASE:	BID SET	PARCEL:					
APPROVED:	<i>[Signature]</i>	CHECKED BY:	N. COLSON	DATE:	5/3/23		
DIRECTOR ENGR. DATE:	5/3/23	PROJ. ENGR. DATE:	A. PATTERSON	DATE:	5/3/23		
PRINTED BY:	apatterson	DATE:	May 03, 2023				
PORT ADDRESS:	ONE SITCUM PLAZA	TACOMA, WA	98401-1837				



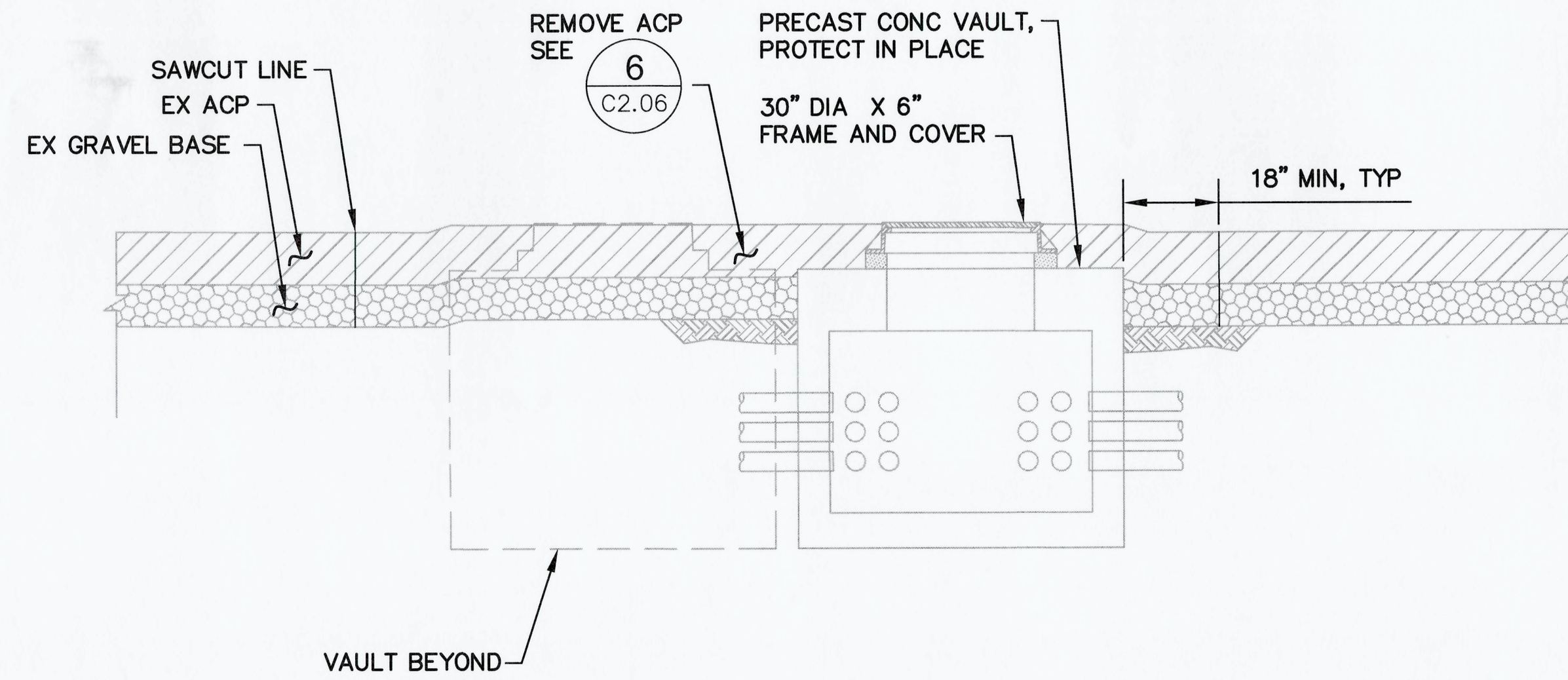
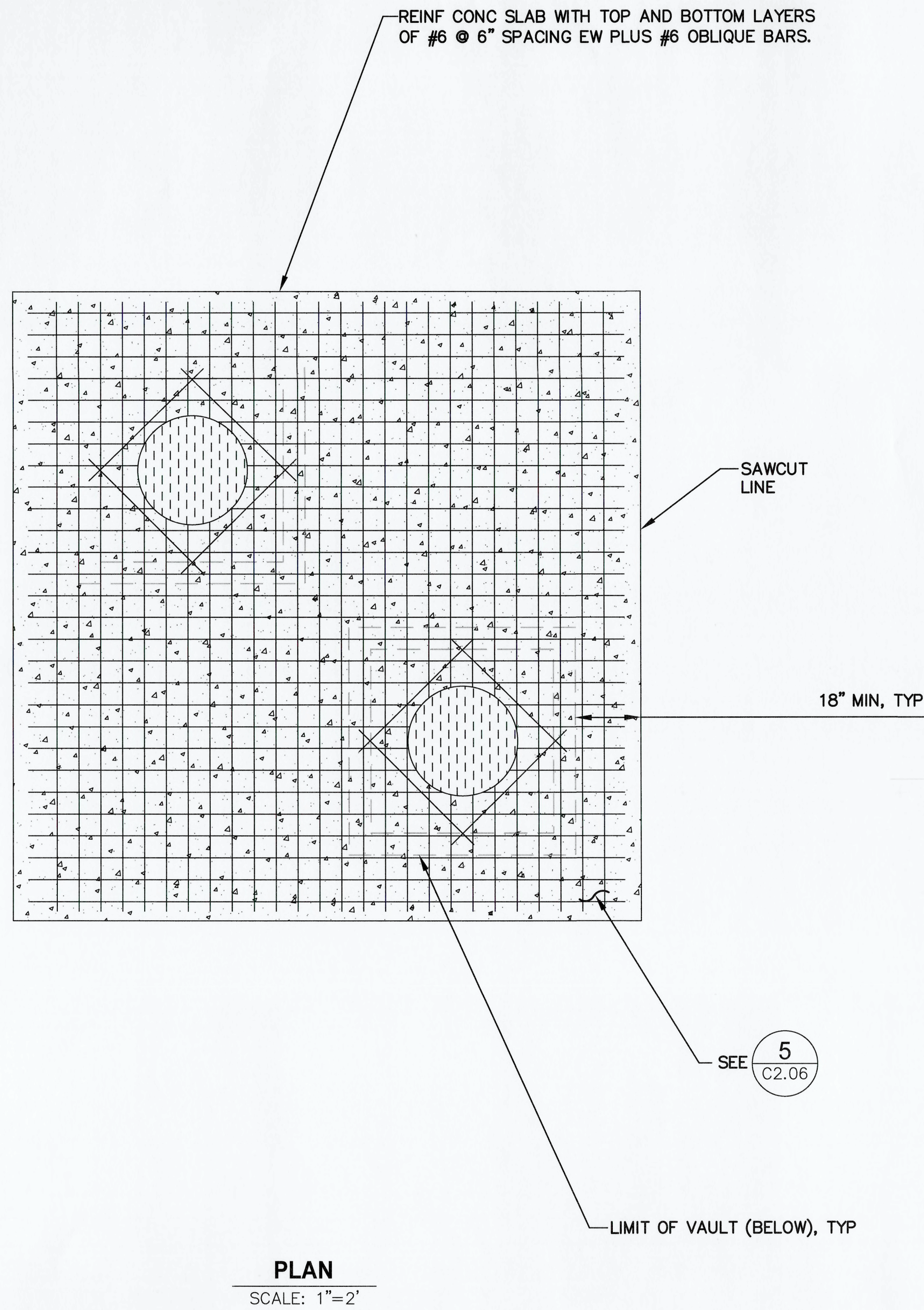
**moffatt & nichol**  
600 UNIVERSITY STREET, SUITE 610  
SEATTLE, WA 98101  
(206) 422-0222



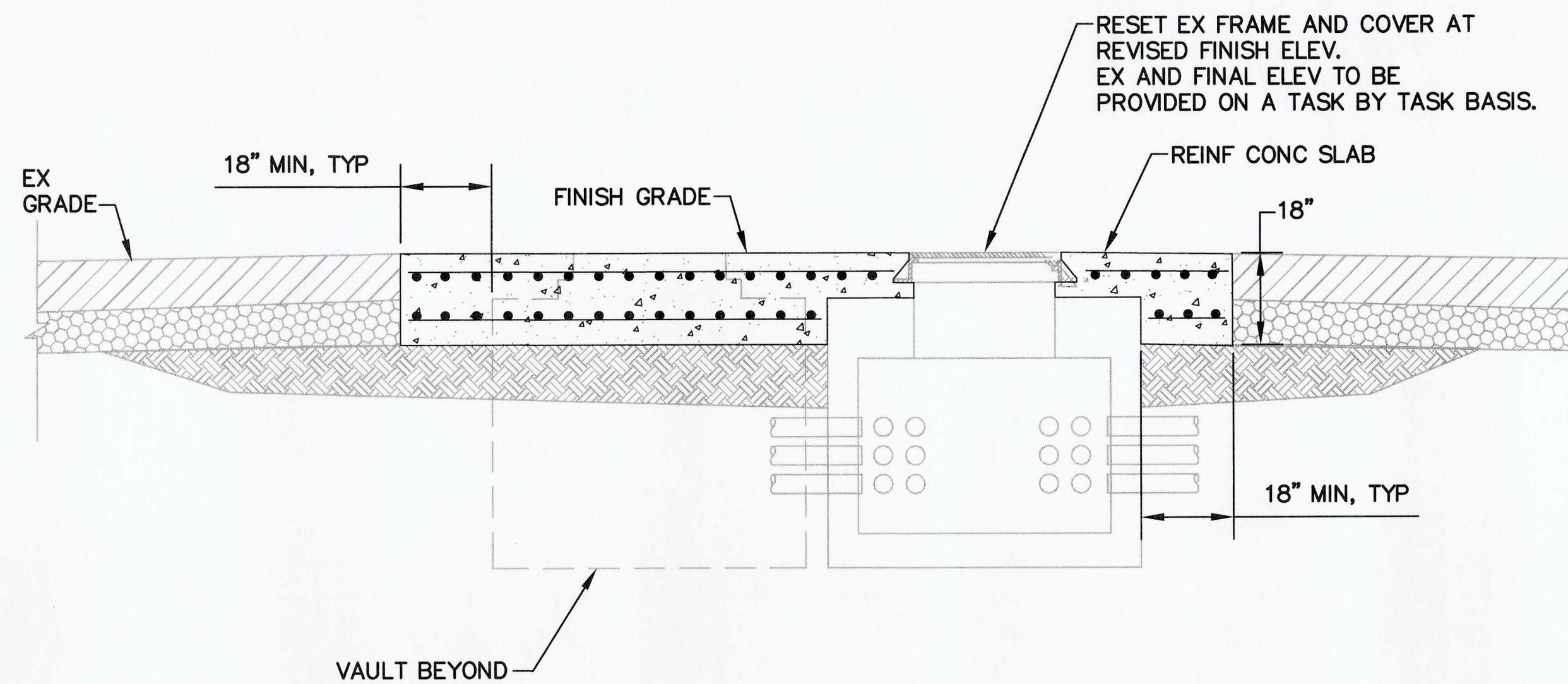
MARK:	
REVISION:	
BY:	
DATE:	

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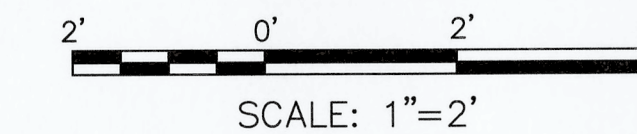


**SECTION - EXISTING CONDITION AND PREPARATION**  
SCALE: 1"=2'



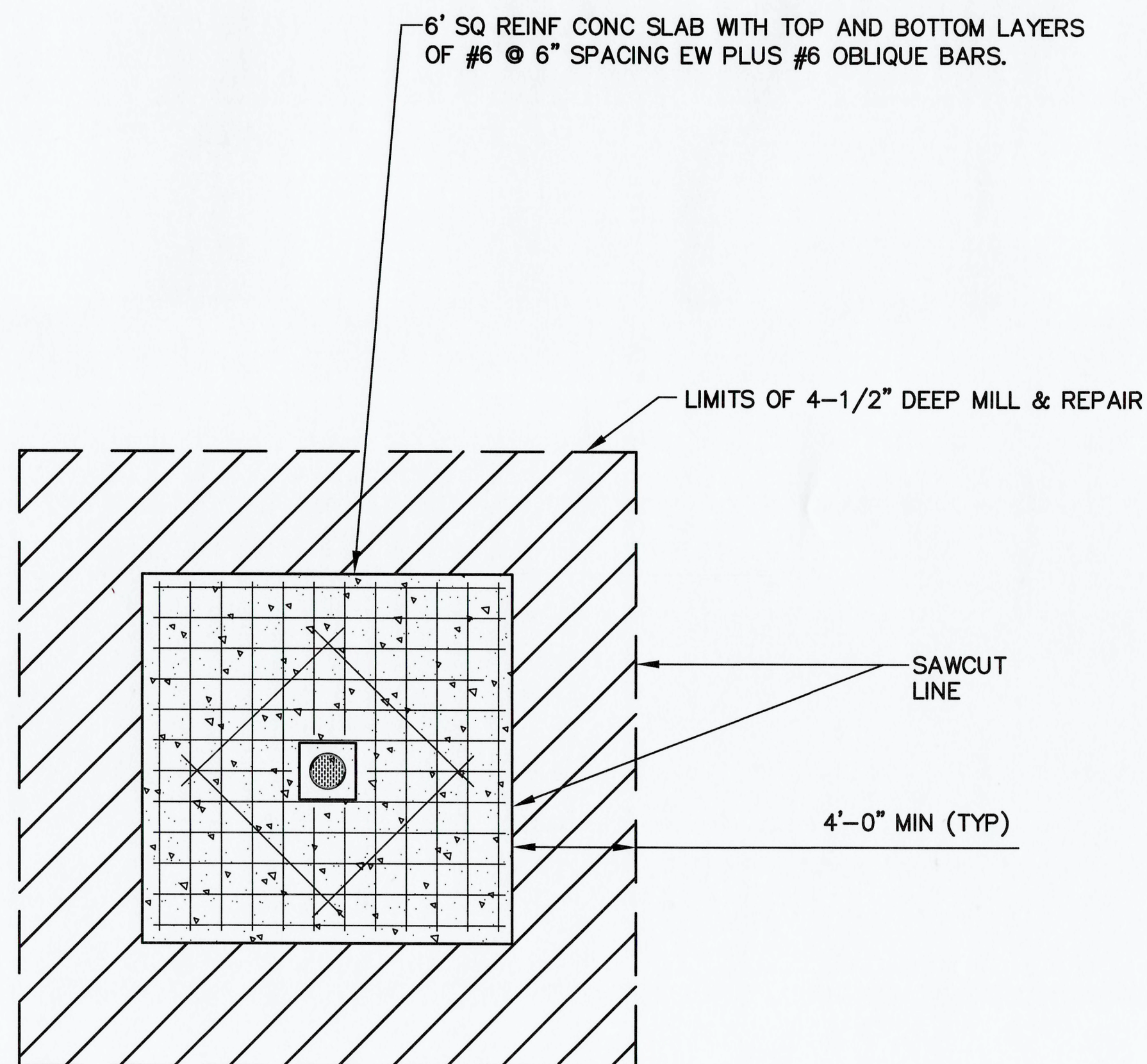
**SECTION - FINISH CONDITION**  
SCALE: 1"=2'

3 VARIES TYPICAL REHABILITATION OF VAULT

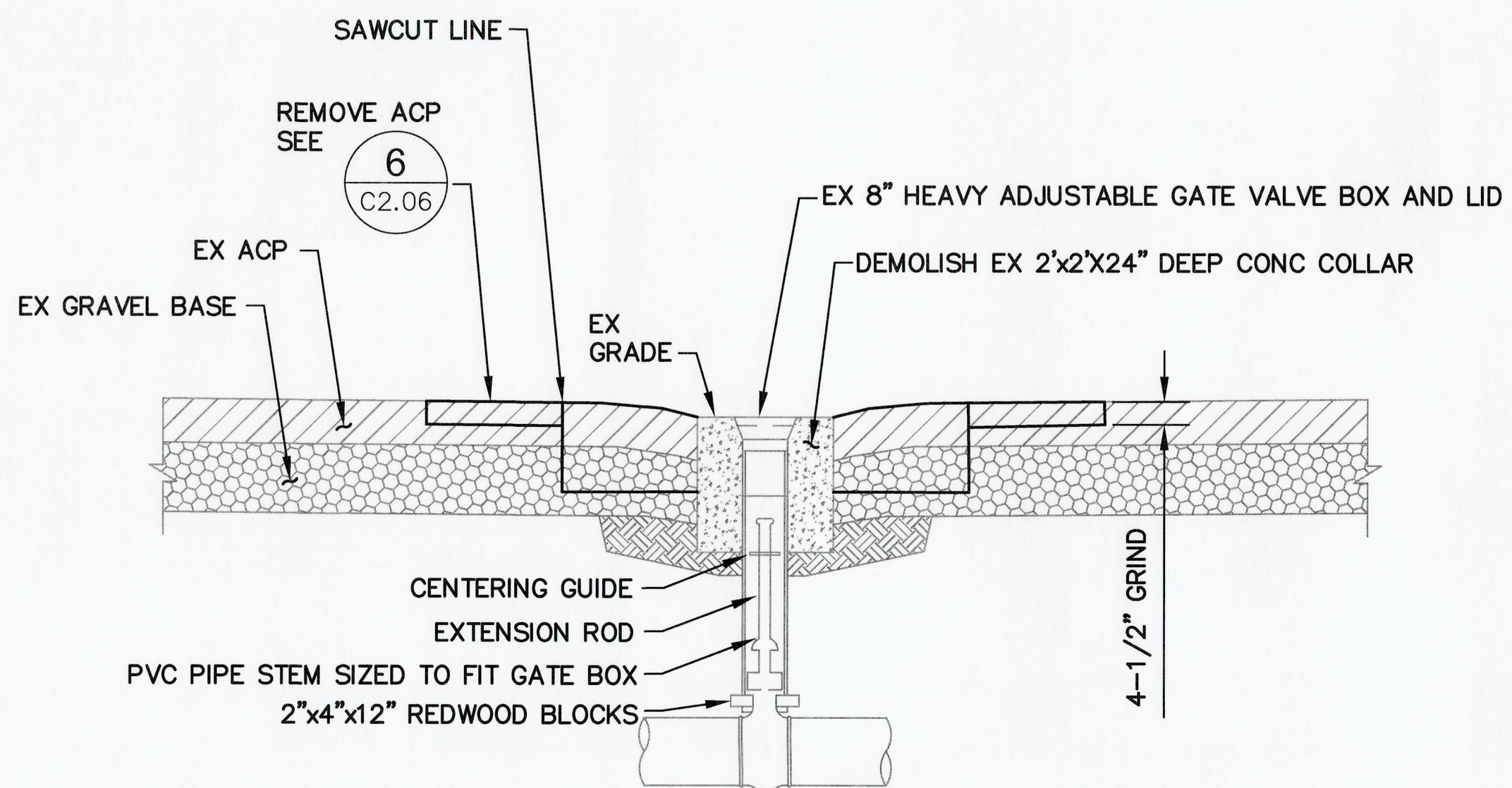


<b>6690</b> <b>C2.03</b> SHEET 12 OF 16 CONT/CONS: 071898 M. ID: 201038.02 PHASE: BID SET	<b>PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022</b> SITE DETAILS 03		APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENG. DATE: 5/3/23 PRINTED BY: apatterson PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	N. COLSON 5/3/23 CHECKED BY DATE A. PATTERSON 5/3/23 PROJ ENGR DATE May 03, 2023 SITCUM PLAZA TACOMA, WA 98401-1837			
	RANGE: 3E SECTION: DAT-HRZ: NAD83/2007 VERT: MLLW PARCEL: [ ] DRAWING SCALE: AS NOTED	MARK: REVISION: BY: APPR: 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				



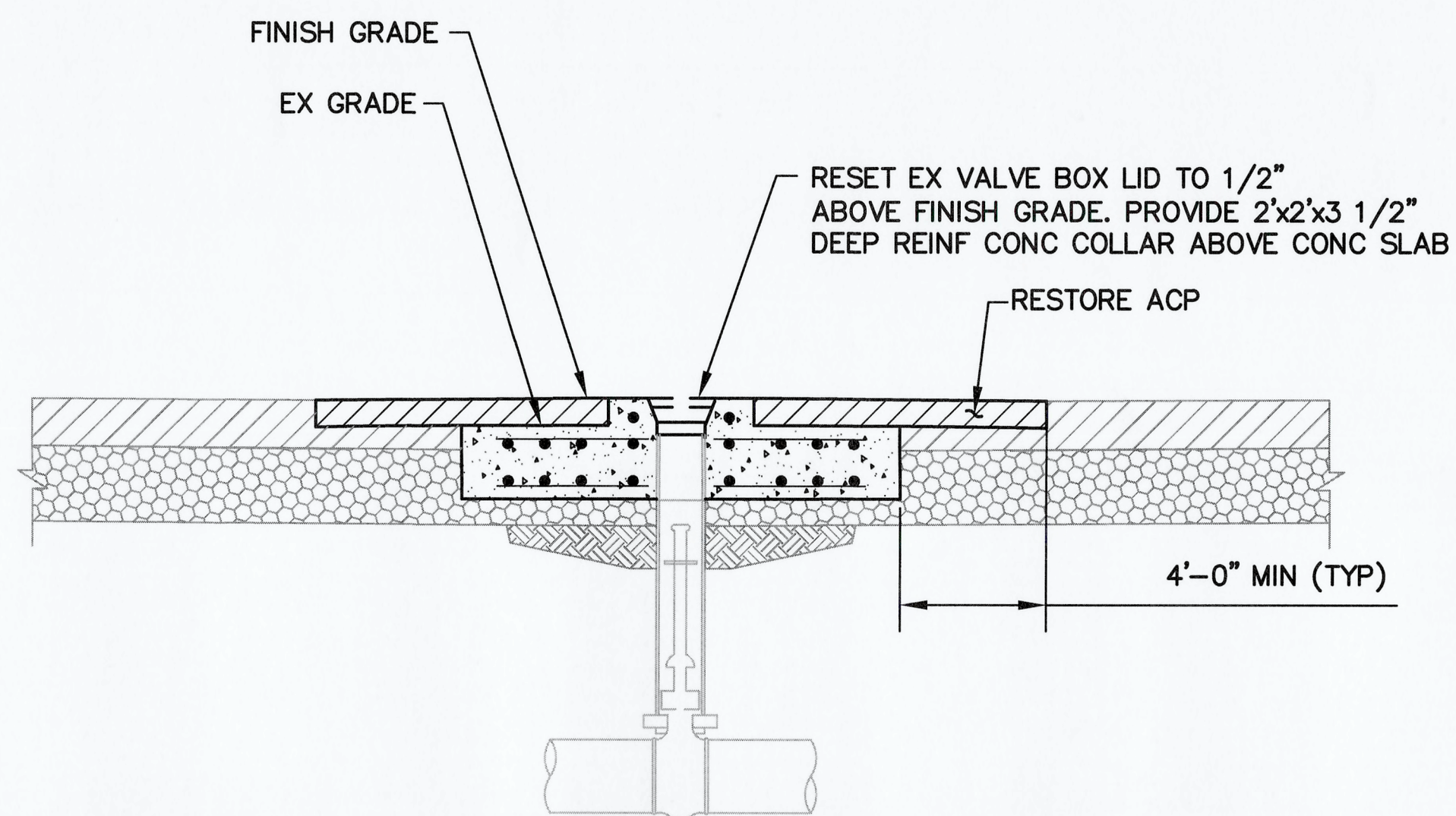


PLAN  
SCALE: 1"=2'



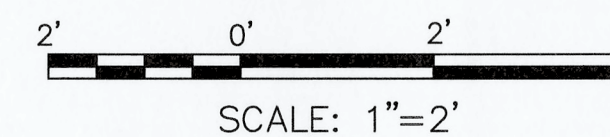
SECTION - EXISTING CONDITION AND PREPARATION

SCALE: 1"=2'



SECTION - FINISH CONDITION

SCALE: 1"=2'



4 VARIES

TYPICAL REHABILITATION OF WATER VALVE BOX

6690

C2.04

SHEET 13 OF 16

CONTR/CONS: 071898

M. ID: 201038.02

PHASE: BID SET

PIERCE COUNTY TERMINAL  
OPERATIONAL PAVEMENT REPAIRS 2022  
SITE DETAILS 04

N. COLSON 5/3/23

CHECKED BY DATE

A. PATTERSON 5/3/23

PROJ. ENGR DATE

opatterson May 03, 2023

PRINTED BY: opatterson

PORT ADDRESS: ONE SITCOM PLAZA

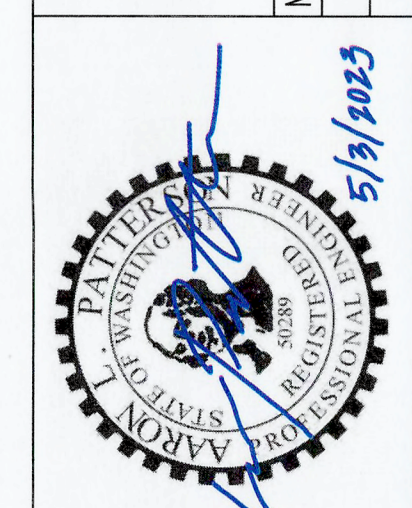
TACOMA, WA 98401-1837

APPROVED:

T. HOWARD

DIRECTOR ENGR. DATE

5/3/23



DATE:

BY:

REVISION:

MARK:

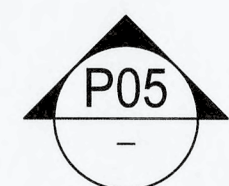
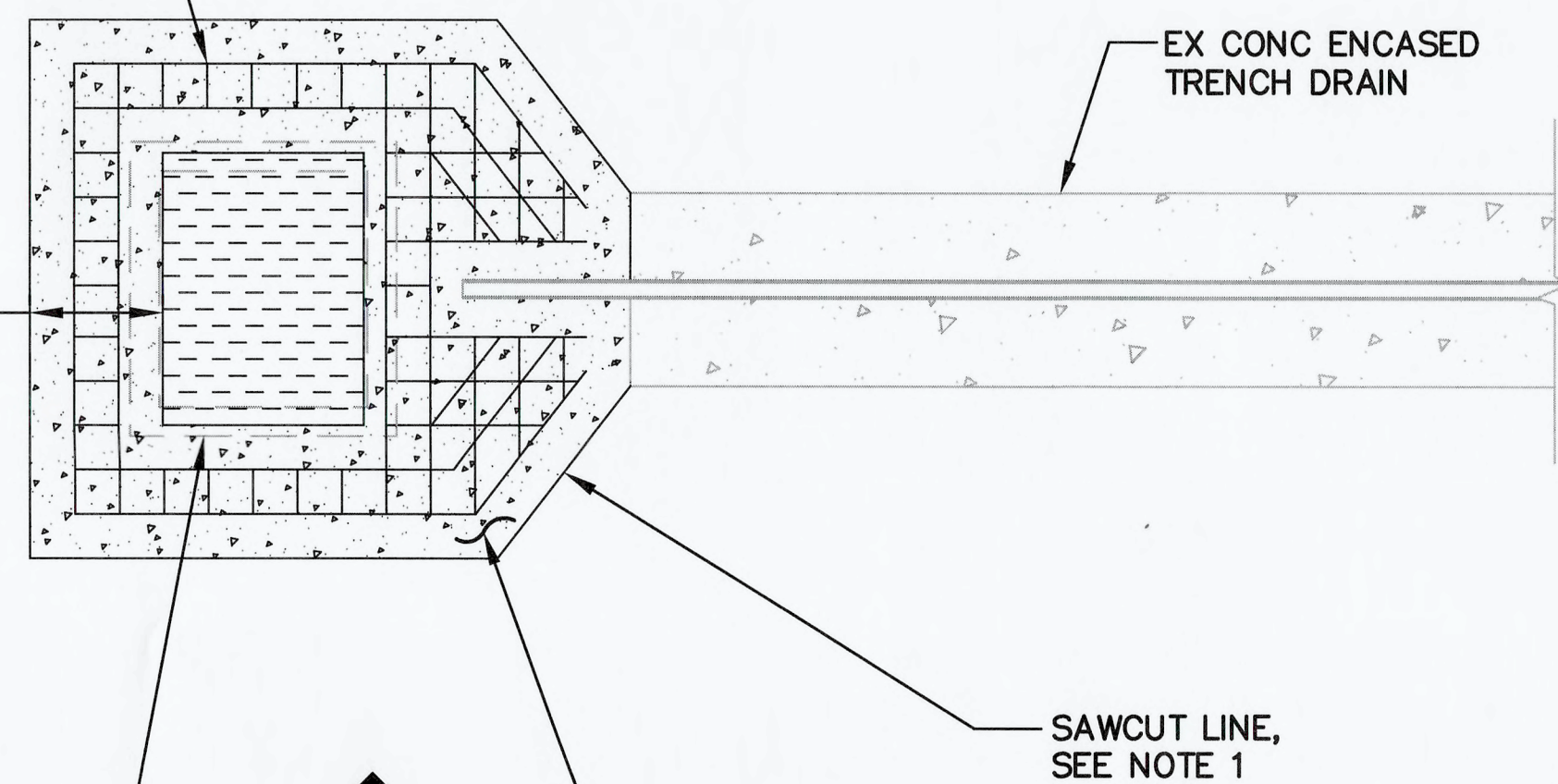
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REINF CONC SLAB WITH TOP AND BOTTOM LAYERS OF #6 @ 6" SPACING EW PLUS #6 OBLIQUE BARS

18" MIN (TYP)



SEE 5 C2.06

LIMIT OF CB (BELOW) (TYP)

PLAN  
SCALE: 1"=2'



PHOTO - EXAMPLE EXISTING CONDITION

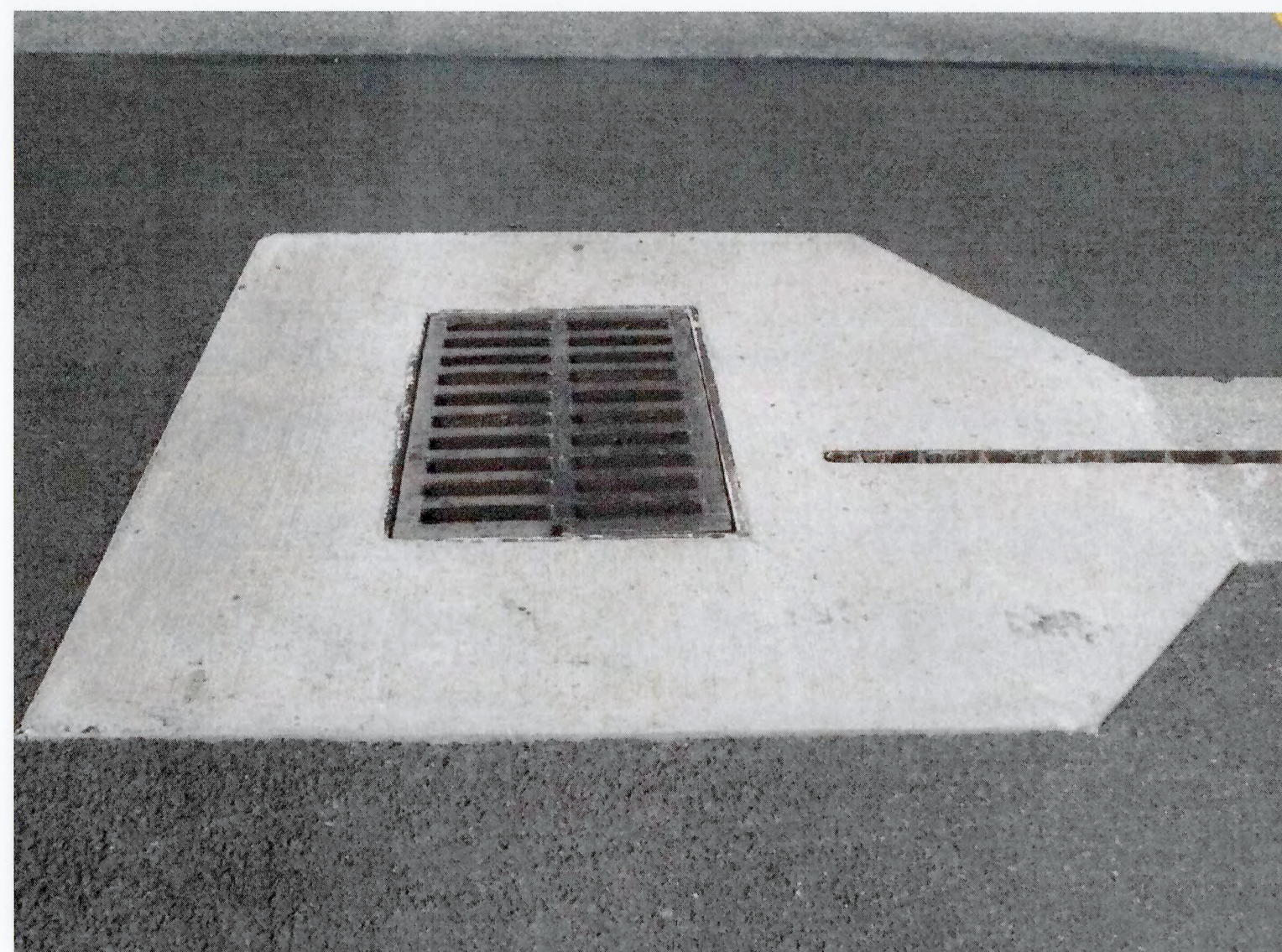
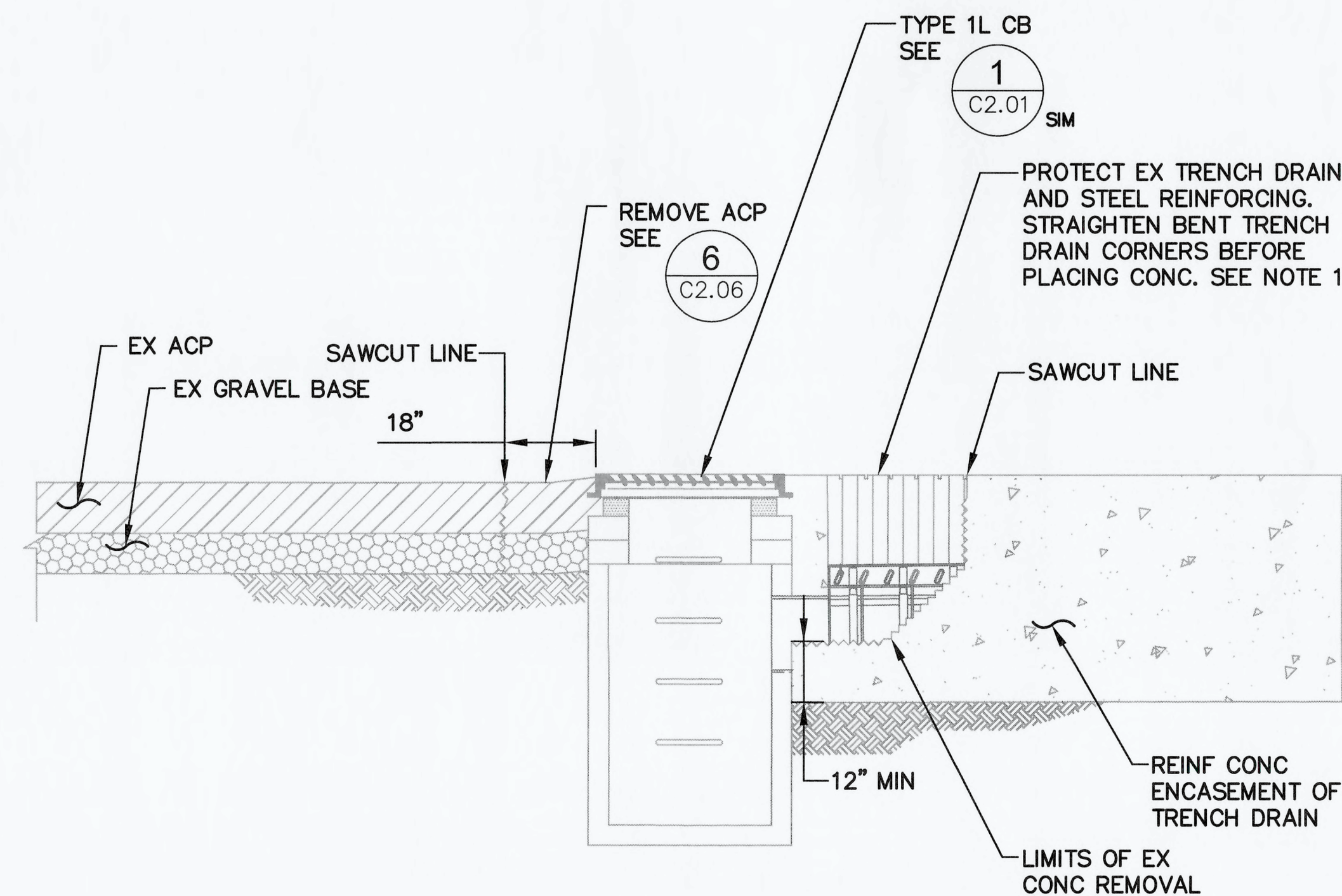


PHOTO - EXAMPLE FINISH CONDITION

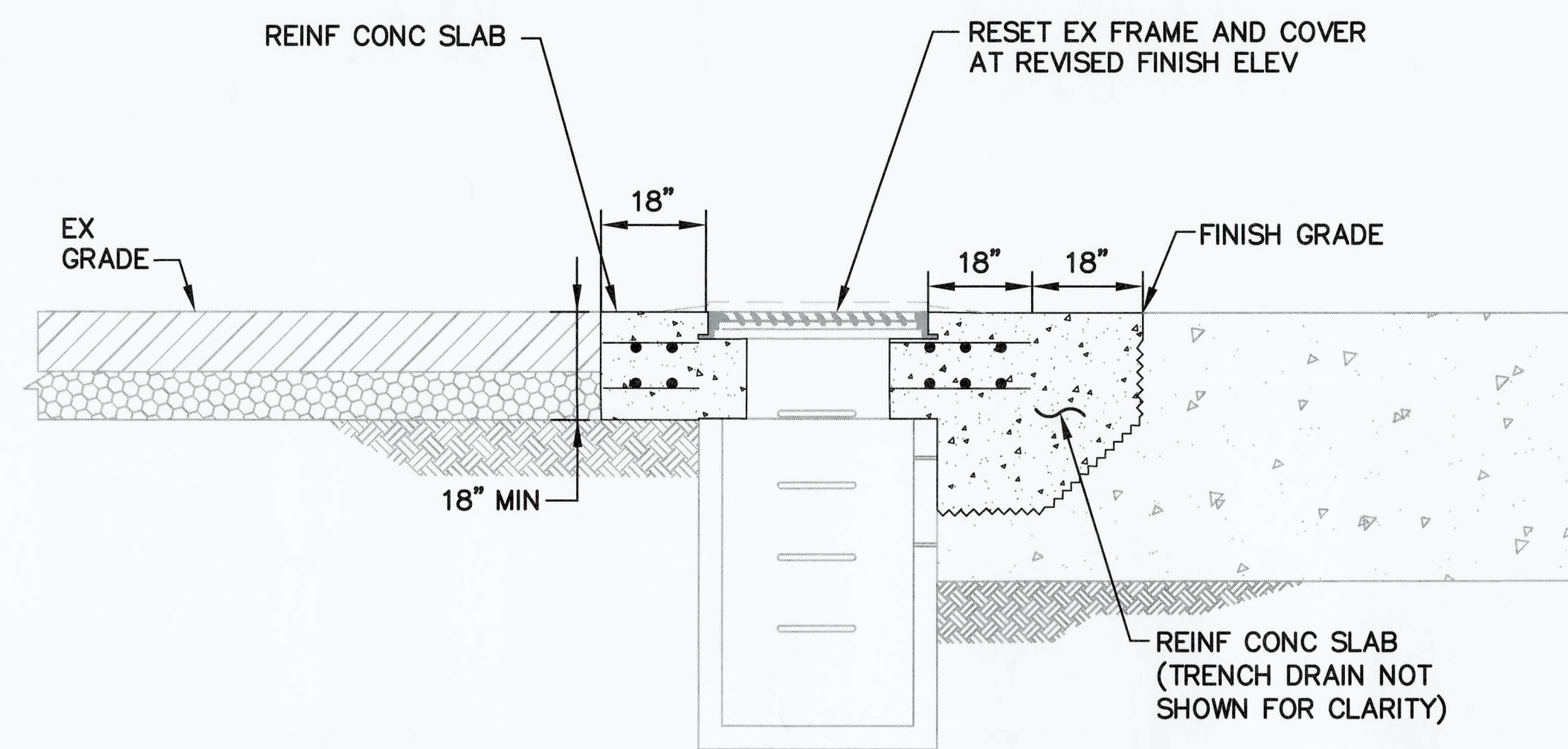
P05  
TYPICAL TYPE 1L CB WITH TRENCH DRAIN  
NO SCLAE

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



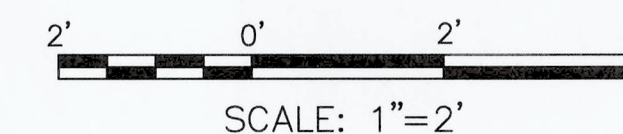
SECTION - EXISTING CONDITION AND PREPARATION

SCALE: 1"=2'



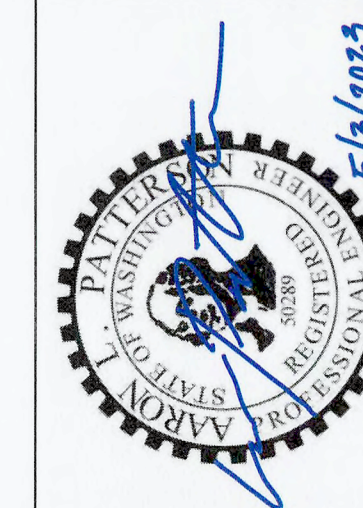
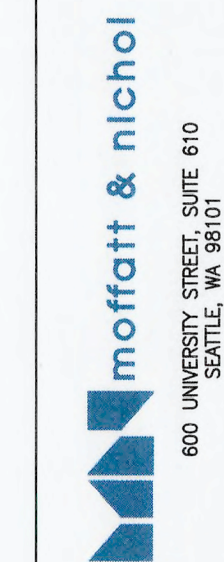
SECTION - FINISH CONDITION

SCALE: 1"=2'



NOTE:

- 1. SAWCUT TOP 3 INCHES OF EXISTING REINFORCED CONCRETE TRENCH 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.



N. COLSON	5/3/23	CHECKED BY	DATE
A. PATTERSON	5/3/23	PROJ. ENGR	DATE
T. HOWARD		DIRECTOR	ENG. DATE
APPROVED: <i>Aaron Patterson</i>		PRINTED BY: apatterson	May 03, 2023
		PORT ADDRESS: ONE SITCUM PLAZA	
		TACOMA, WA 98401-1837	

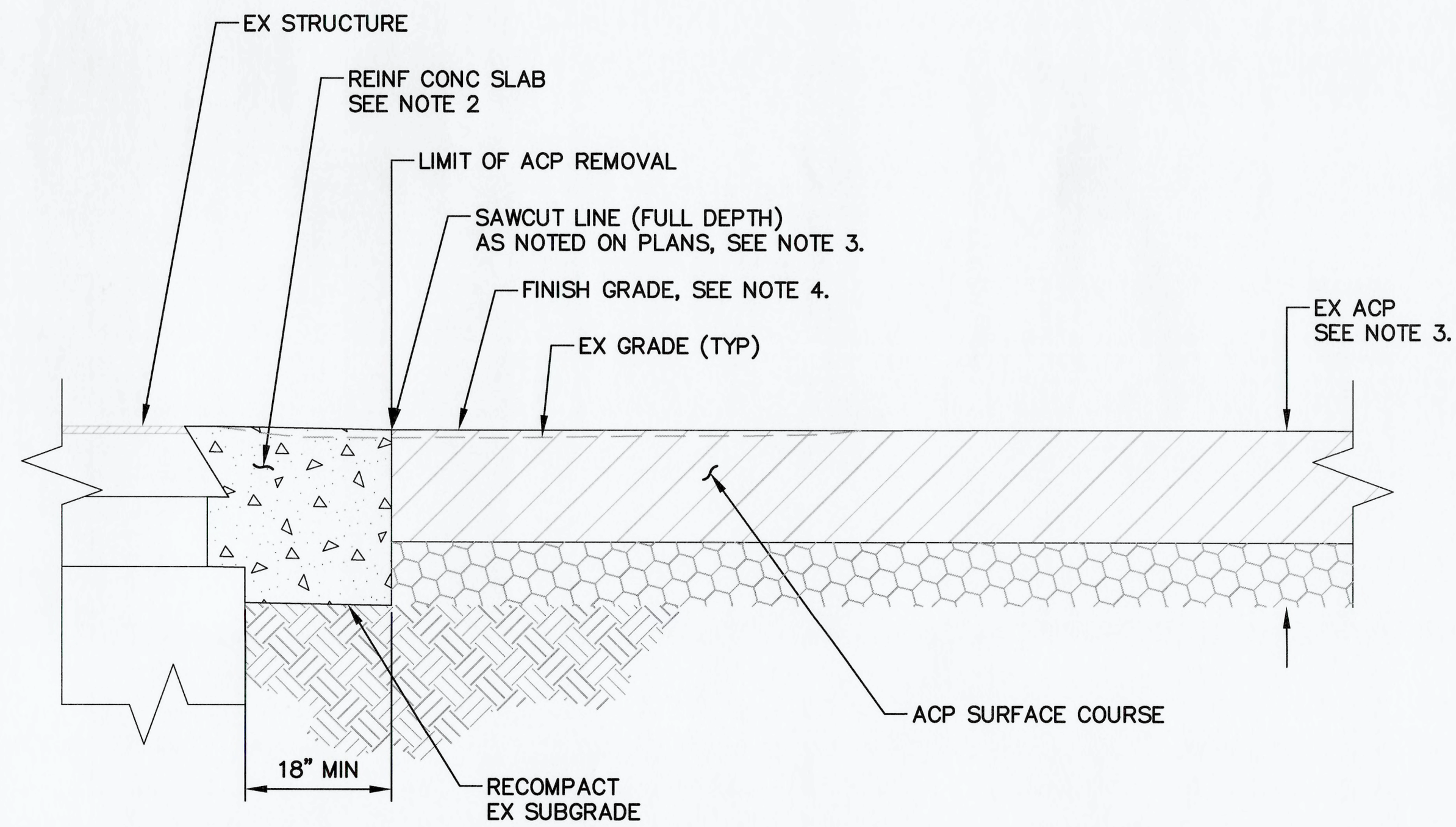
PIERCE COUNTY TERMINAL  
OPERATIONAL PAVEMENT REPAIRS 2022  
SITE DETAILS 05

6690  
C2.05  
SHEET 14 OF 16

CONTRACT NO.	071898	TOWNSHIP	20N	RANGE	3E	SECTION	
M. ID.	201038.02	DATE	HRZ: NAD83/2007	VERT.	MLLW		
PHASE	BID SET	PARCEL		DRAWING SCALE	AS NOTED		

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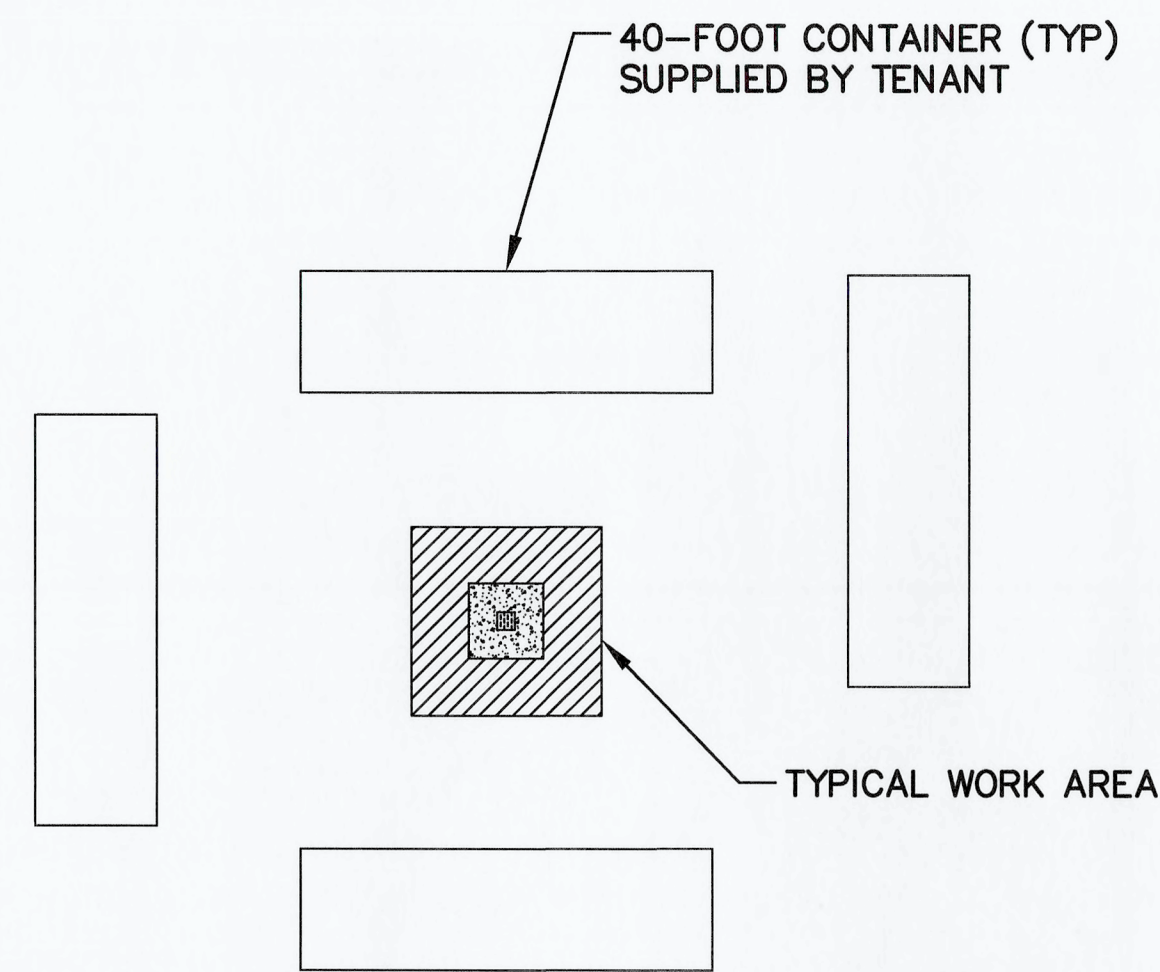




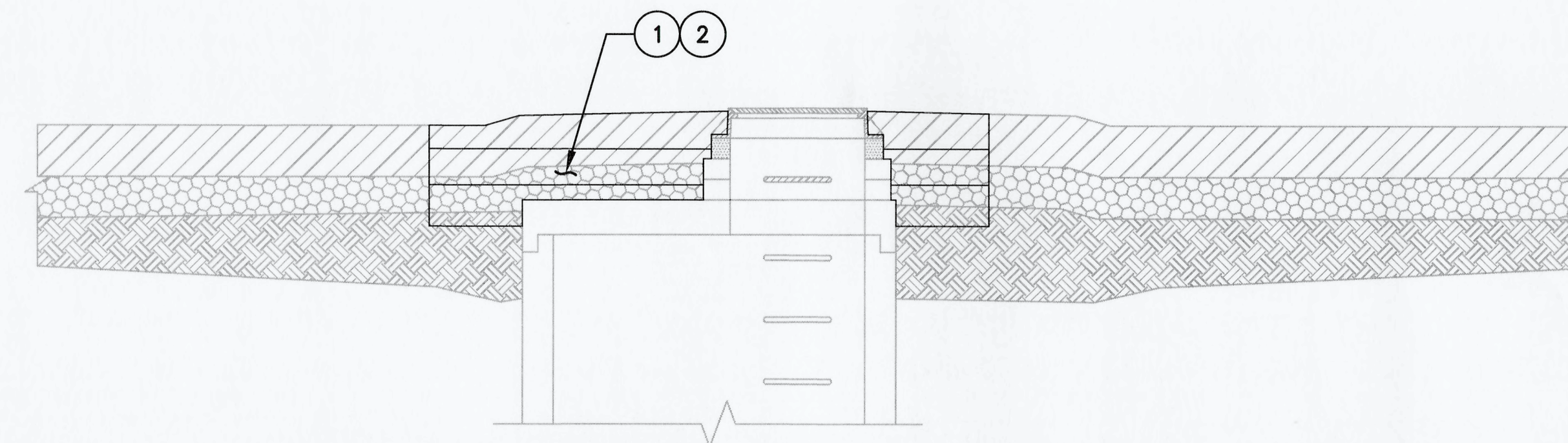
**NOTES:**

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.

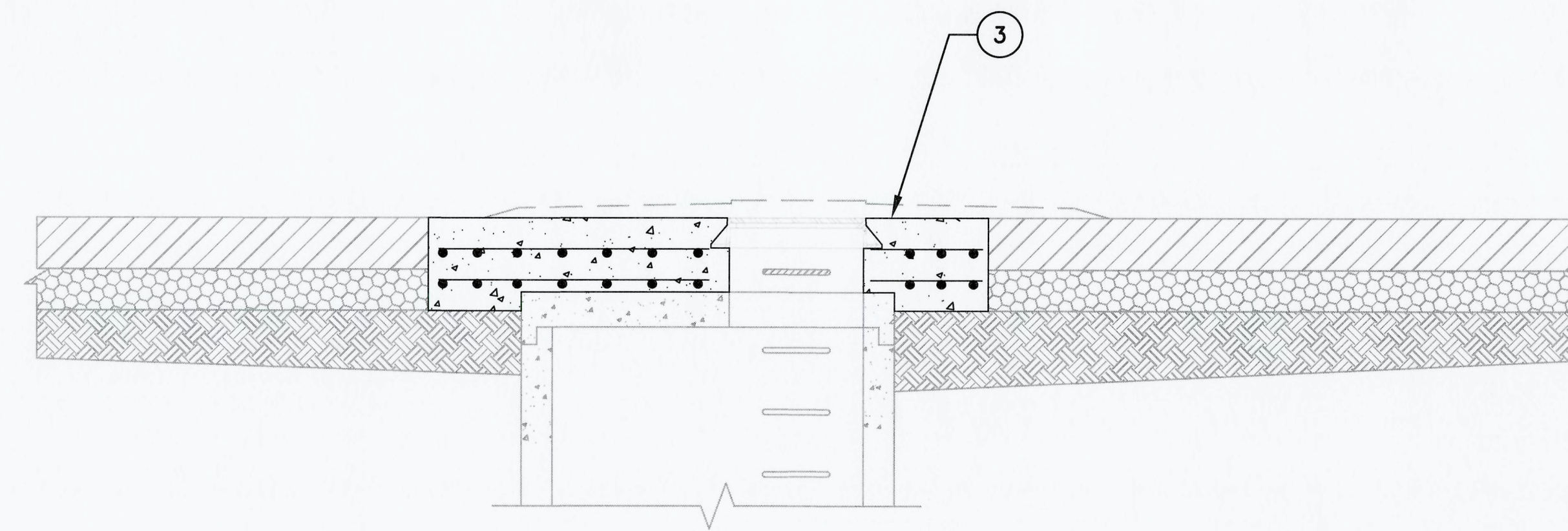
**5 TYPICAL ASPHALT CONCRETE PATCHING AT EXISTING STRUCTURE**  
VARIES SCALE: 1" = 1'



**7 TYPICAL WORK AREA PROTECTION**  
VARIES SCALE: NTS



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

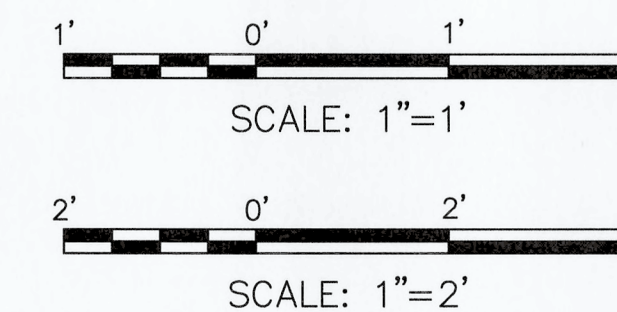


**SECTION - PROPOSED CONDITION**  
SCALE: 1"=2'

**NOTES:**

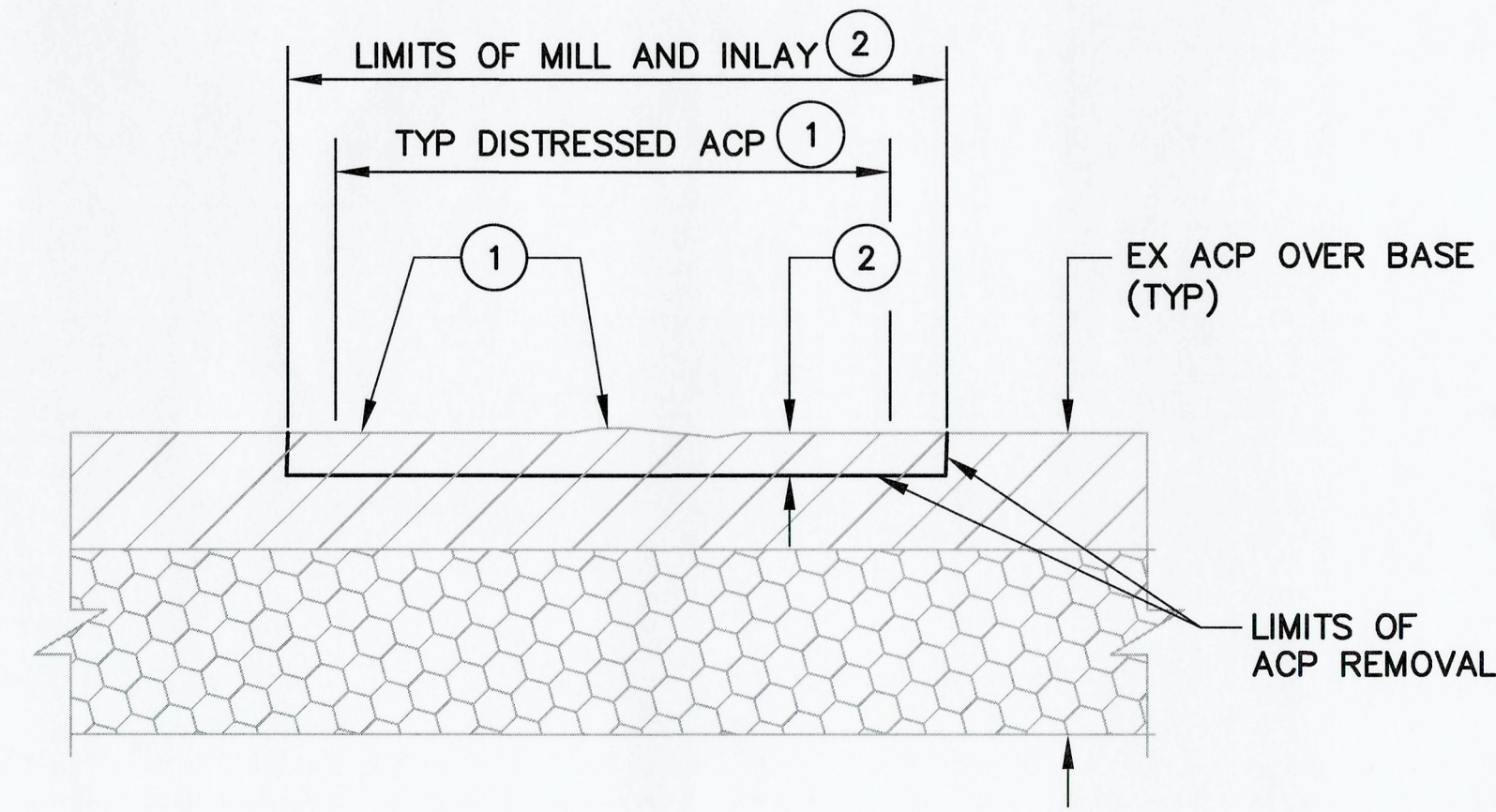
- 1 SAWCUT AND REMOVE ACP.
- 2 REMOVE PAVEMENT BASE AND EXCAVATE TO BOTTOM OF WORK AREA. COMPACT SUBGRADE TO UNYIELDING STATE.
- 3 CONSTRUCT REINFORCED CONC SLAB.

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

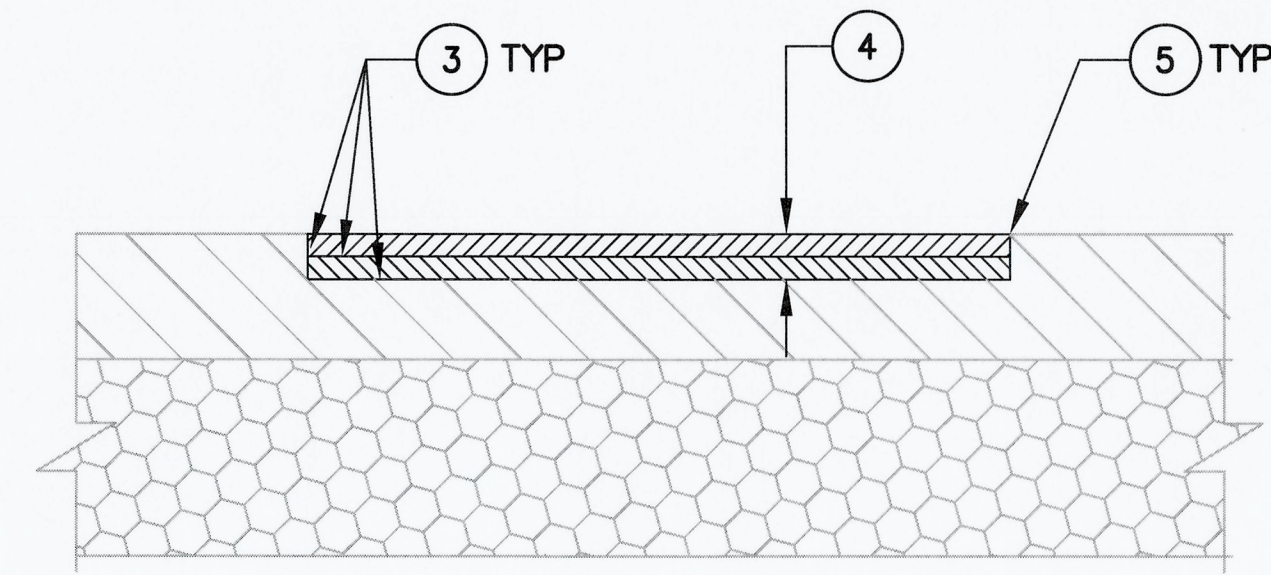


 Part of Tacoma PORT OF TACOMA, WA 98401-1837		 moffatt & nichol 600 UNIVERSITY AVENUE SUITE 610 SEATTLE, WA 98101 (206) 422-0222		MARK: _____ REVISION: _____ BY: _____ DATE: _____ APPR: _____
		N. COLSON 5/3/23 CHECKED BY DATE	A. PATTERSON 5/3/23 PROJ. ENGR DATE	T. HOWARD DIRECTOR ENG. DATE 5/10/23
PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 SITE DETAILS 06		TOWNSHIP: 20N RANGE: 3E SECTION: _____	DAT-HRZ: NAD83/2007 VERT: MLLW PARCEL: _____	PRINTED BY: apatterson May 03, 2023 PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837
6690 <b>C2.06</b> SHEET 15 OF 16	CONT./CONS: 071898 M. ID: 201038.02 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: 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 2 1/2 INCHES BASE LIFT FOLLOWED BY A 2 INCHES SURFACE LIFT.
- 5 PROVIDE JOINT SEALANT.

6690  
**C2.07**  
SHEET 16 OF 16

CONT/CONS: 071898  
M. ID: 201038.02  
PHASE: BID SET

**PIERCE COUNTY TERMINAL  
OPERATIONAL PAVEMENT REPAIRS 2022**

PAVING SECTIONS

TOWNSHIP: ZON RANGE: 3E SECTION:  
DAT-HRZ:NAD83/2007VERT: MLLW  
PARCEL: DRAWING SCALE: AS NOTED

APPROVED: *[Signature]* 5/3/23  
T. HOWARD  
DIRECTOR ENG. DATE: 5/3/23  
PRINTED BY: apatterson May 03, 2023  
PORT ADDRESS: ONE SITCUM PLAZA  
TACOMA, WA 98401-1837

N. COLSON 5/3/23  
CHECKED BY DATE  
A. PATTERSON 5/3/23  
PROJ. ENGR DATE



**moffatt & nichol**  
600 UNIVERSITY STREET, SUITE 610  
SEATTLE, WA 98101  
(206) 622-3222

**Port of Tacoma**  
P.O. BOX 1837 TACOMA, WA 98401-2038-1841

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