

# PORT OF TACOMA

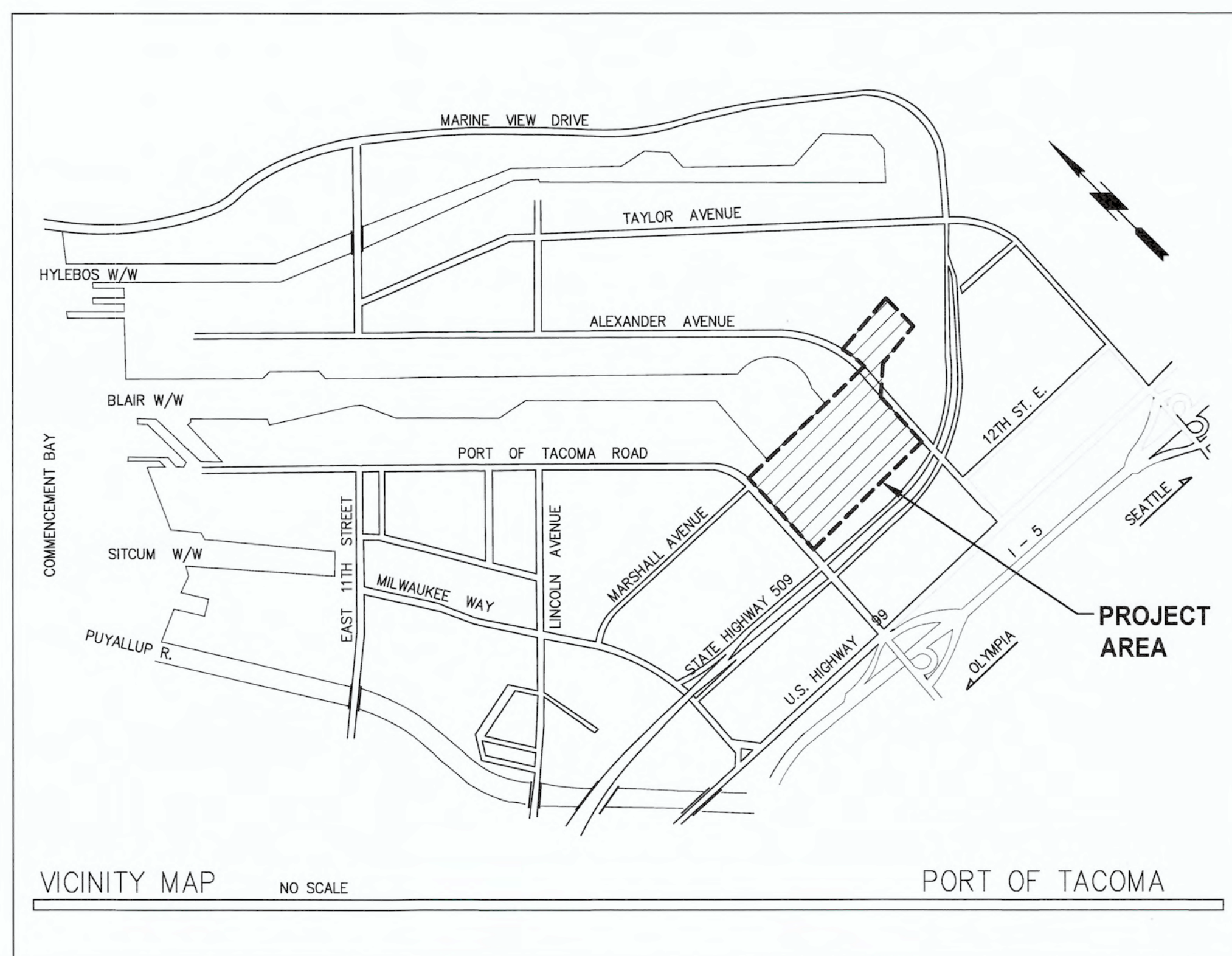
## PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022 PROJECT NO. 201038.01 CONTRACT NO. 071685

### 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		
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CONSULTANT:




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LEE GRAY  
REGISTERED PROFESSIONAL ENGINEER  
WASHINGTON STATE  
NO. 3588  
4/6/22

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T. HOWARD  
DIRECTOR ENG. DATE: cgreene Apr 06, 2022  
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A. PATTERSON 4/6/22  
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S. GRAY  
PROJ. ENGR. DATE: 4/6/22

6635  
**G1.01**  
SHEET 1 OF 16

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

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

TOWNSHIP: 20N RANGE: 3E SECTION: \_\_\_\_\_  
DAT-HRZ: NAD83/2007 VERT: MLLW  
PARCEL: \_\_\_\_\_ DRAWING SCALE: AS NOTED

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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

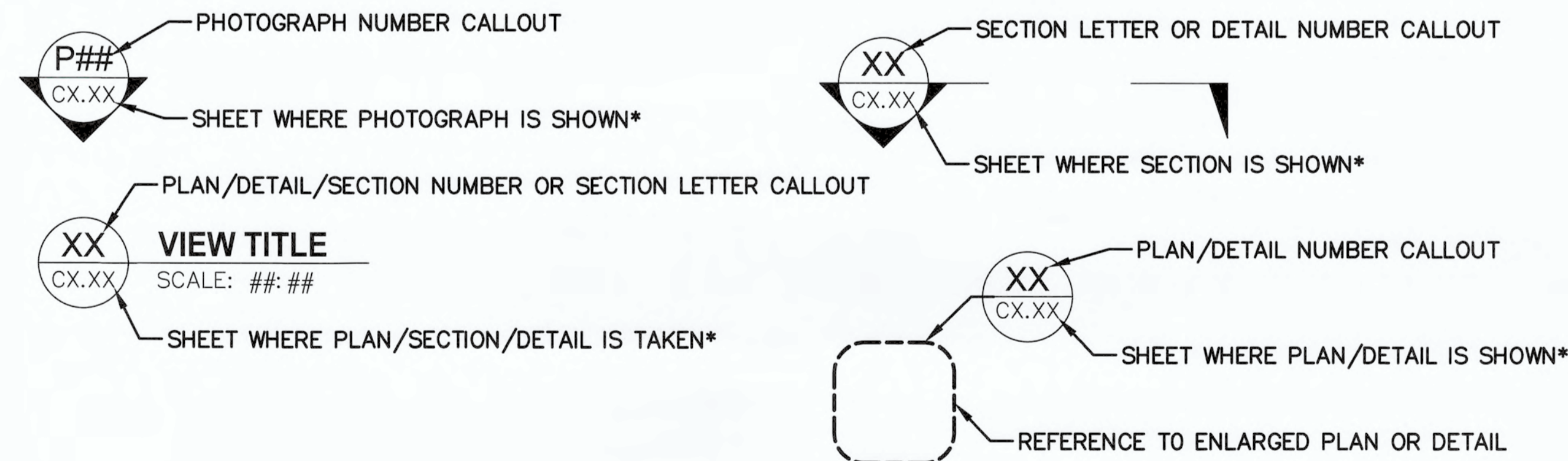
'	FEET
"	INCHES
⊙	AT
ACP APPROX	ASPHALT CONCRETE PAVEMENT APPROXIMATE
BLDG	BUILDING
CB	CATCH BASIN
CL	CLASS
COMM	COMMUNICATIONS
CONC	CONCRETE
CPV	CRANE POWER VAULT
CSBC	CRUSHED SURFACING BASE COURSE
CSTC	CRUSHED SURFACING TOP COURSE
CTR	CENTER
CV	COMMUNICATIONS VAULT
CY	CUBIC YARD
DIA, ∅	DIAMETER
DIM	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 NORTING
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
VLV	VAULT 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
	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.



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

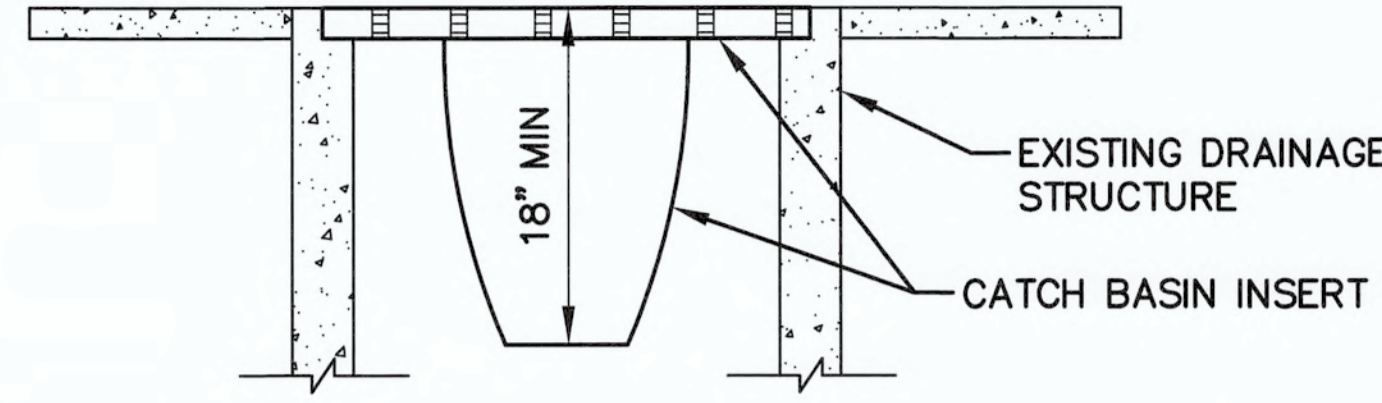
6635  
G1.02  
SHEET 2 OF 16

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

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

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

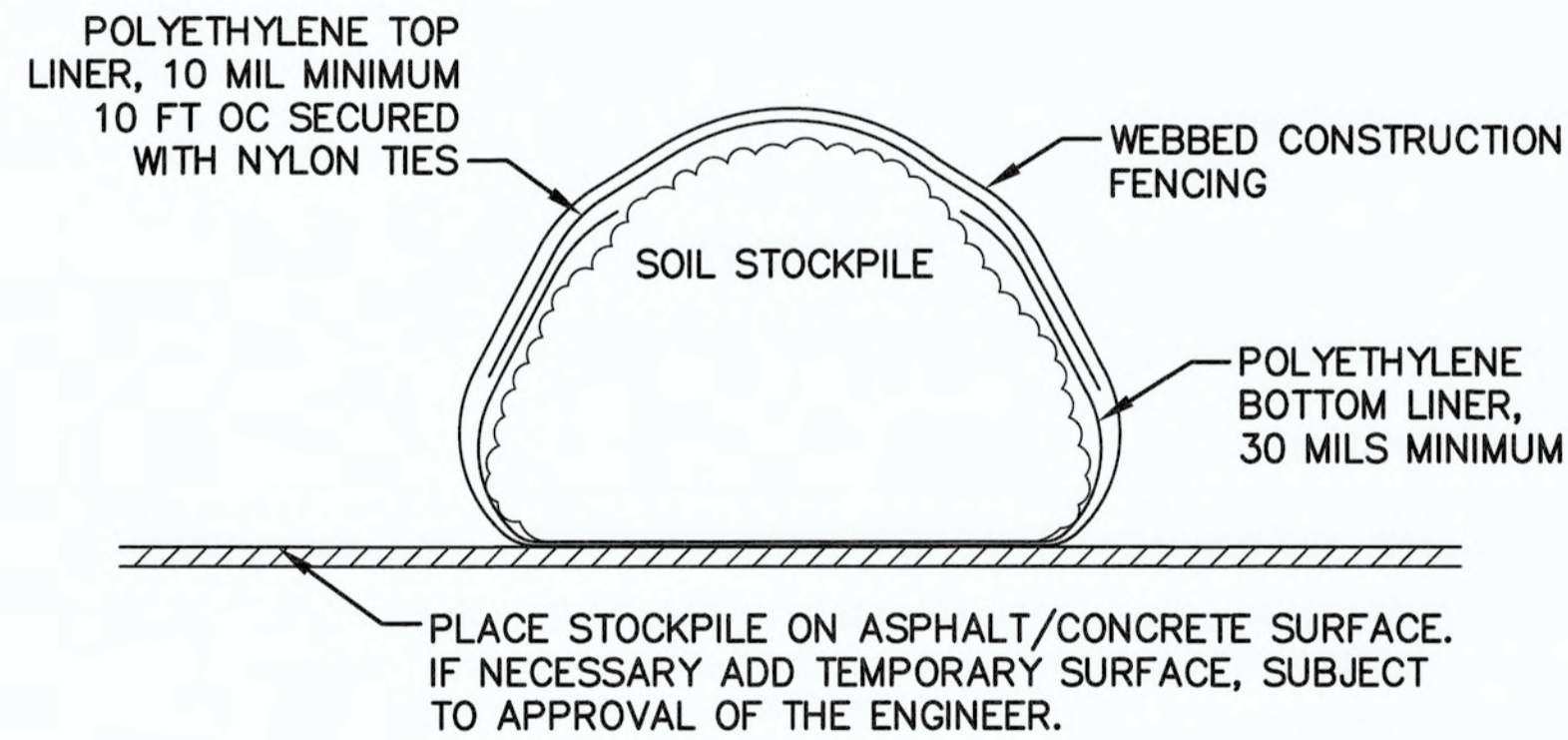
- A. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS SECTION 01 57 13.
- B. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL BE PROVIDED TO PREVENT ERODED SEDIMENT AND TURBID WATER FROM ENTERING THE STORM DRAINAGE SYSTEM AND/OR ADJACENT PROPERTIES DURING AND FOLLOWING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



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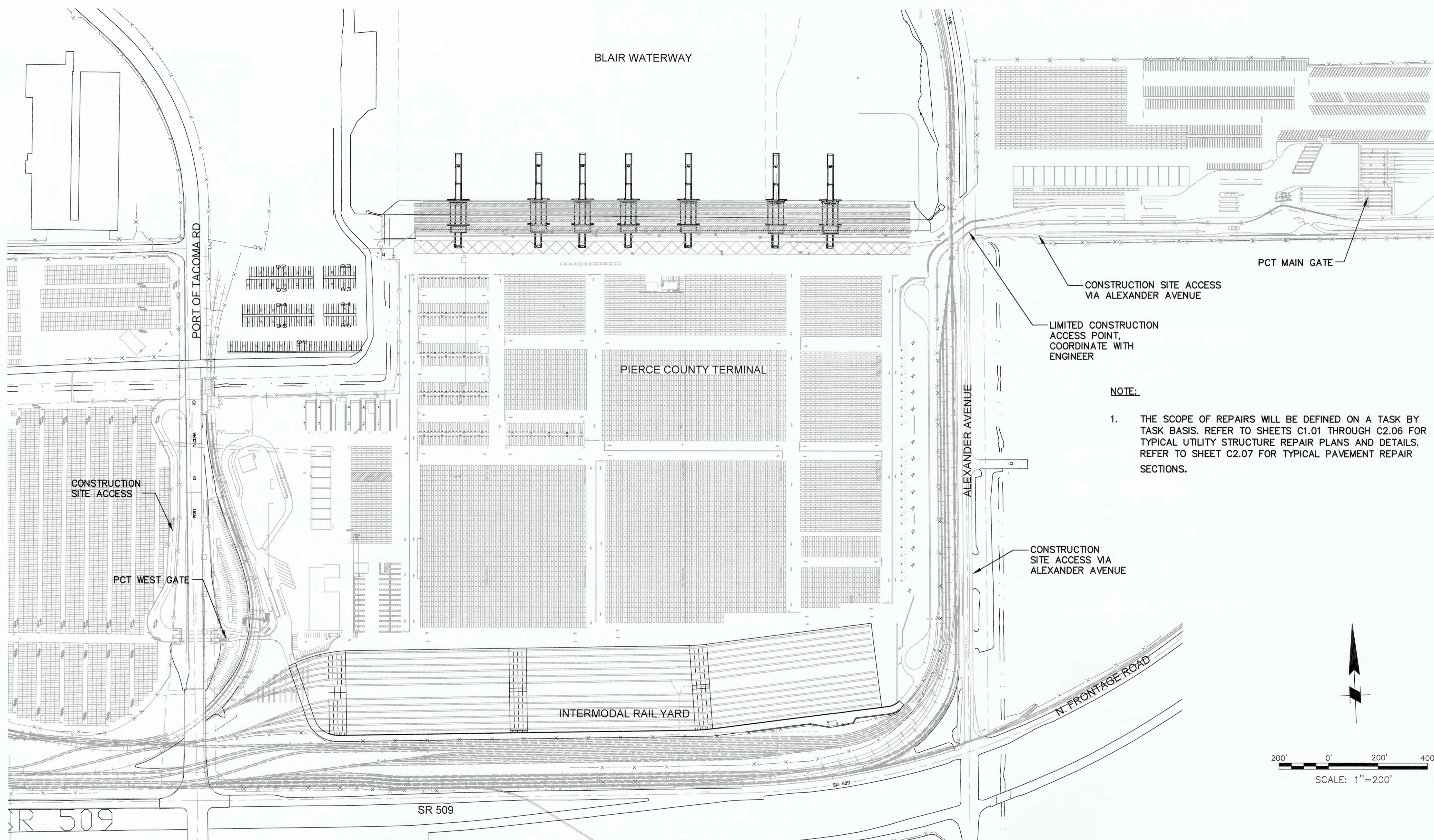


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T. HOWARD  
DIRECTOR ENGR. DATE: 4/6/22  
PROJECT ENGR. DATE: 4/6/22  
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APR 06, 2022  
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TACOMA, WA 98401-1837

**PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022**  
TESC DETAILS

TOWNSHIP: 20N RANGE: 3E SECTION: MLLW  
DATE: HRZ: NAD83 / 2007 VERT: MLLW  
DRAWING SCALE: AS NOTED

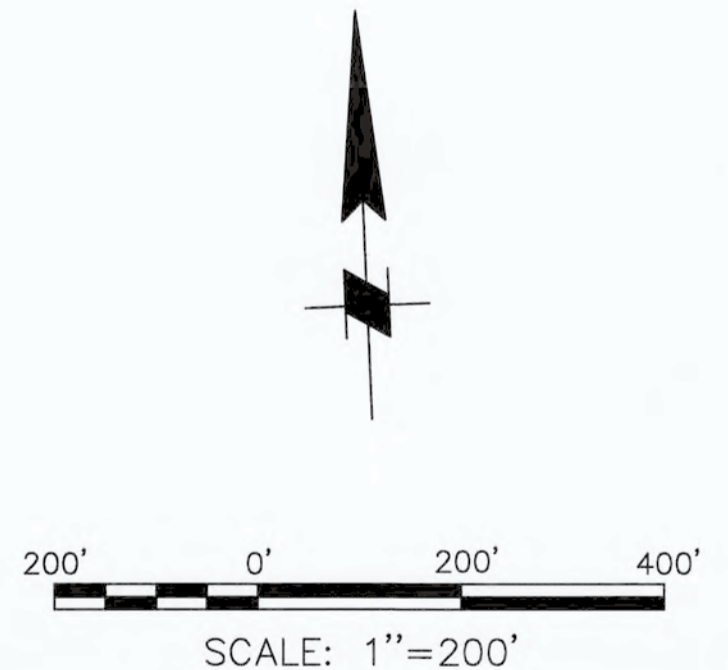
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**G1.03**  
SHEET 3 OF 16  
CONT/CONS: 071685  
M. ID: 201038.01  
PHASE: BID SET



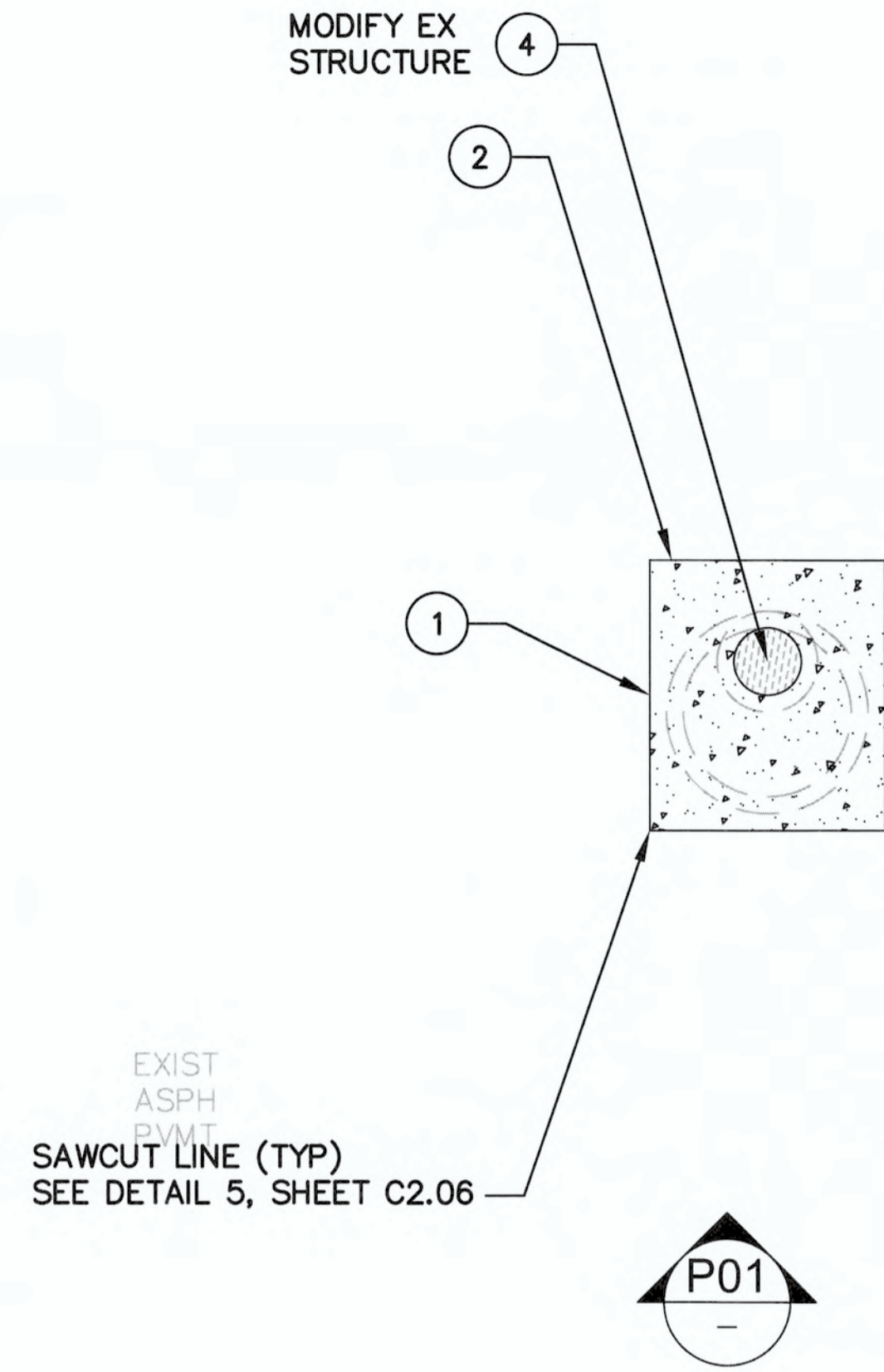
**SITE PLAN**  
SCALE: 1"=200'

**NOTE:**

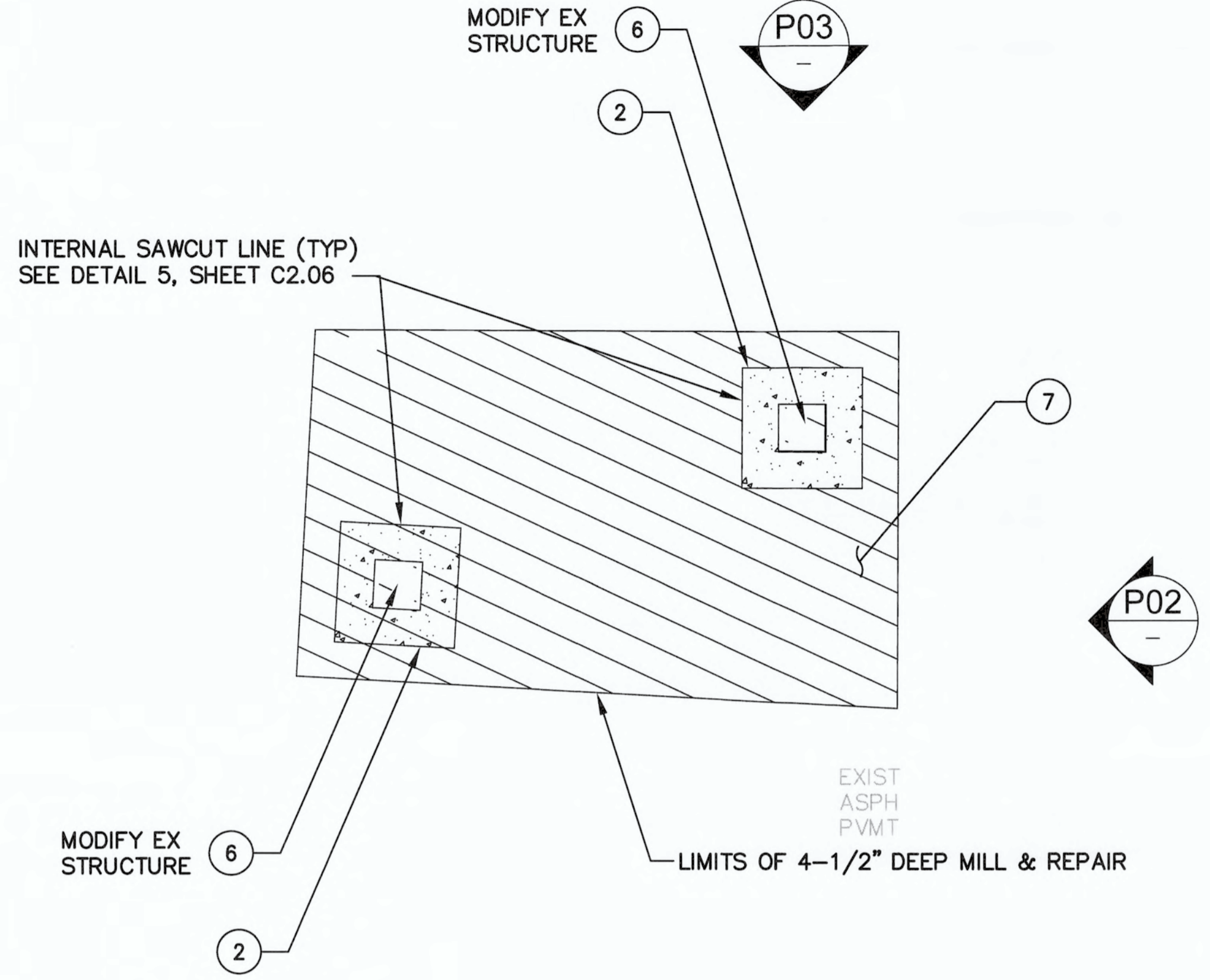
1. THE SCOPE OF REPAIRS WILL BE DEFINED ON A TASK BY TASK BASIS. REFER TO SHEETS C1.01 THROUGH C2.06 FOR TYPICAL UTILITY STRUCTURE REPAIR PLANS AND DETAILS. REFER TO SHEET C2.07 FOR TYPICAL PAVEMENT REPAIR SECTIONS.



<b>6635</b> <b>C0.00</b> SHEET 4 OF 16 CONT./CONS: 071685 M. ID: 201038.01 PHASE: BID SET	<b>PIERCE COUNTY TERMINAL</b> <b>OPERATIONAL PAVEMENT REPAIRS 2022</b> SITE PLAN		APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENGR. DATE: cgreene Apr 06, 2022 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 PRINTED BY: cgreene Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
	TOWNSHIP: 20N RANGE: 3E SECTION: 3E 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				



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



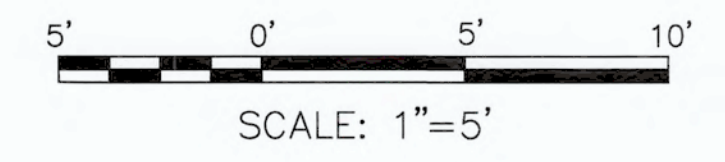
2 TYPICAL DOUBLE VALVE BOX SLAB (WATER VALVE BOXES)  
SCALE: 1" = 5'

STD CONSTRUCTION NOTES:

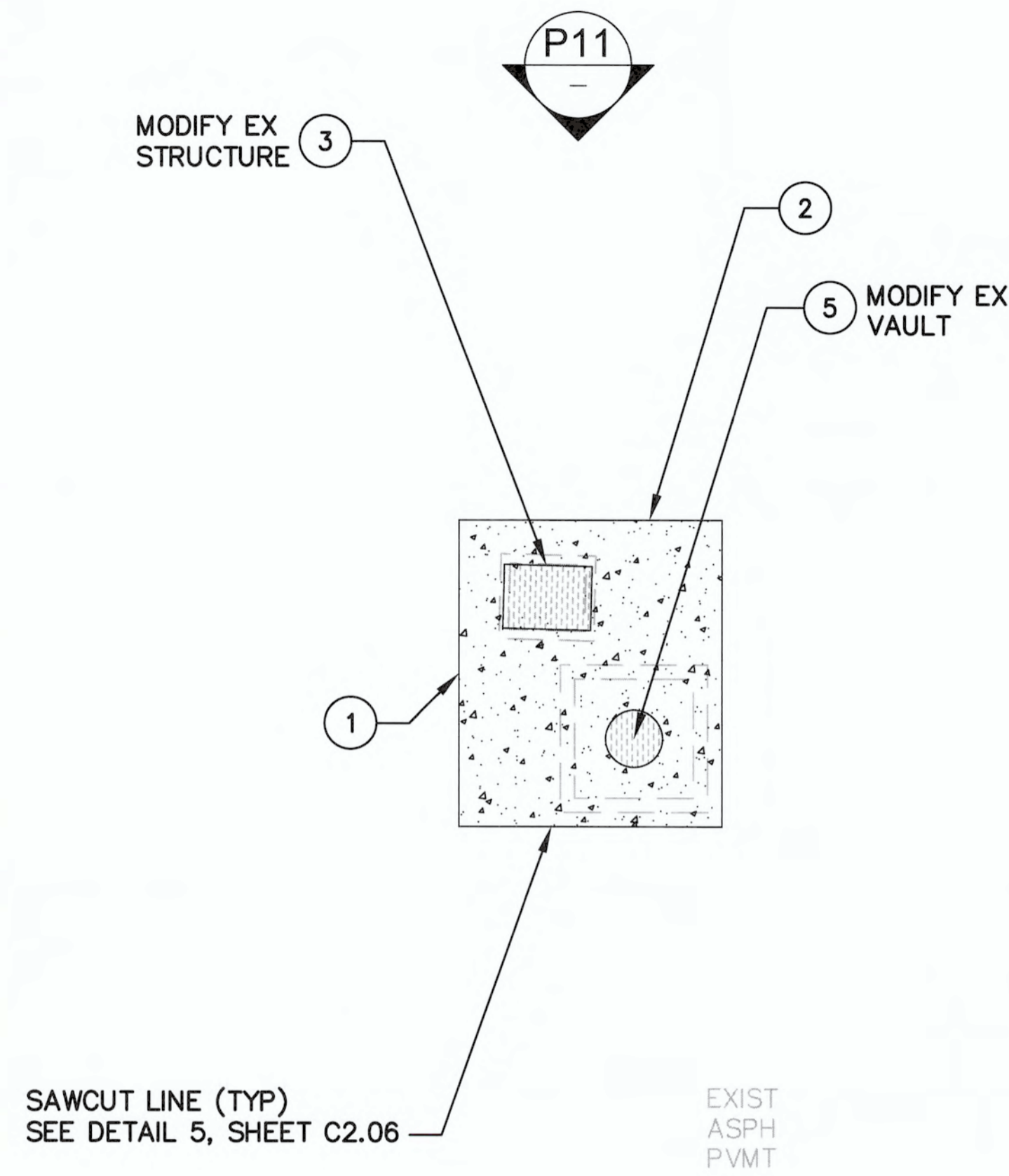
- 1 LIMITS OF ACP REMOVAL.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- 4 ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- 5 ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE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

NOTES:

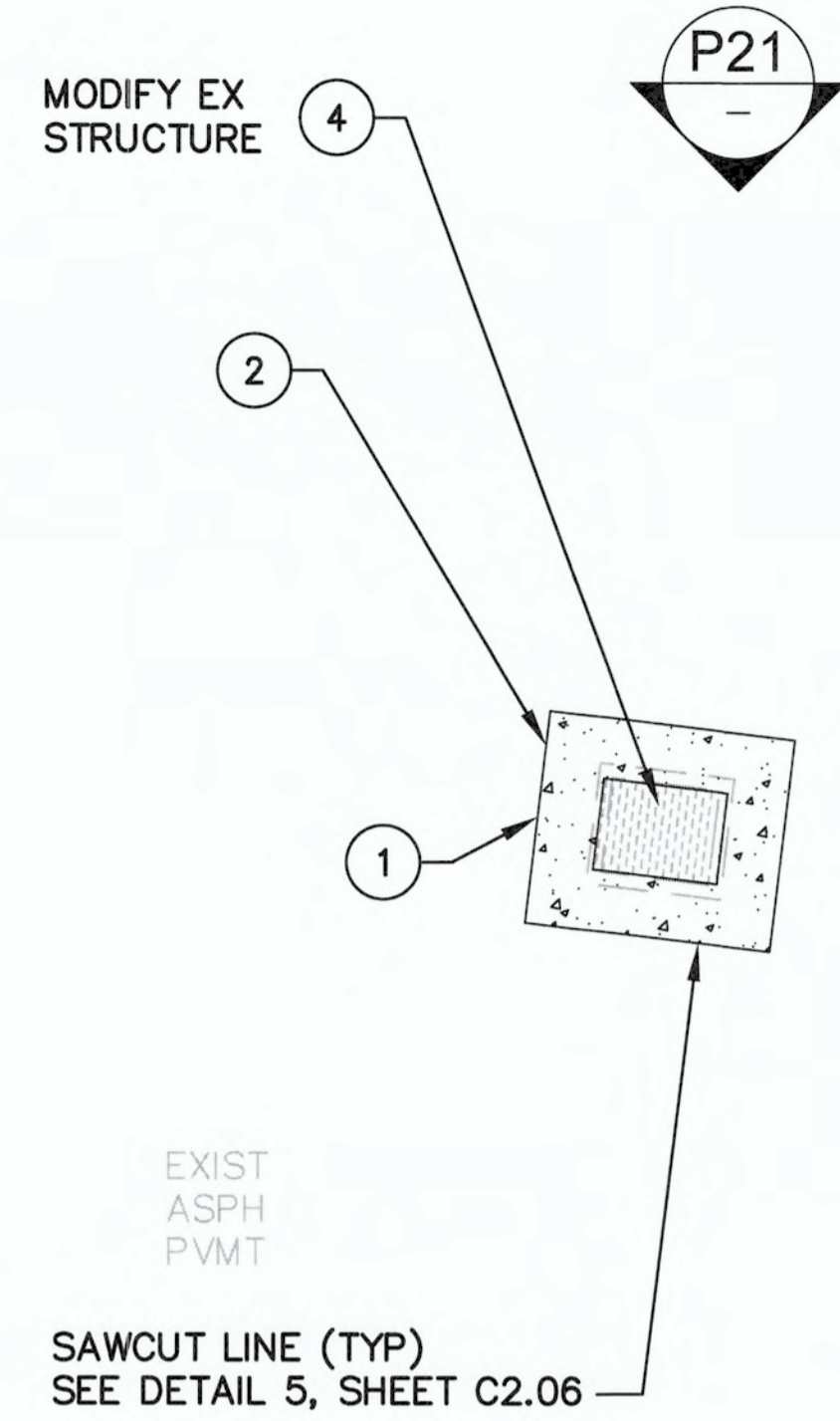
- 1. EXISTING STRUCTURES ARE SHOWN AT ESTIMATED LOCATIONS, SIZE AND CONFIGURATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.
- 2. NOT EVERY STD CONSTRUCTION NOTE IS USED ON EVERY SHEET.
- 3. PROTECT WORK AREAS PER DETAIL 7, SHEET C2.06.



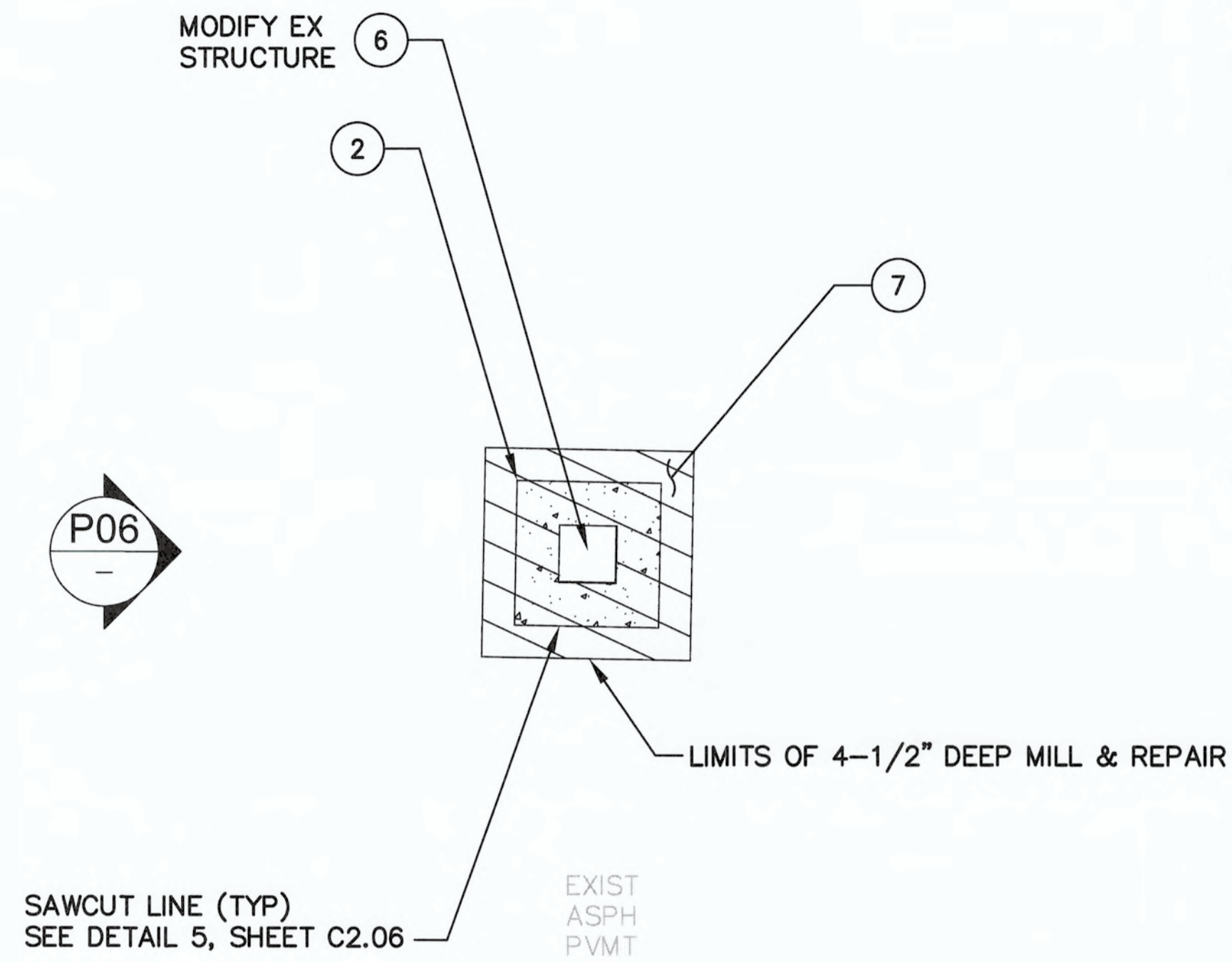
	600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98107 (206) 822-0222	MARK: _____ REVISION: _____ BY: _____ DATE: _____	A. PATTERSON 4/6/22 CHECKED BY: _____ DATE: _____	S. GRAY 4/6/22 PROJ. ENGR DATE: _____ PRINTED BY: cgreene Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
<b>6635</b> <b>C1.01</b> SHEET 5 OF 16 CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET	<b>PIERCE COUNTY TERMINAL</b> <b>OPERATIONAL PAVEMENT REPAIRS 2022</b> ENLARGED UTILITIES PLAN 01		TOWNSHIP: 20N RANGE: 3E SECTION: _____ MLLW DAT-HRZ: NAD83/2007 VERT: _____ 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



**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.



**P11** TYPICAL SD & CPV



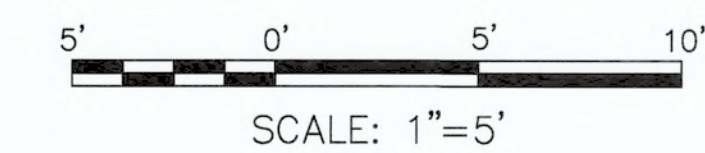
**P21** TYPICAL CB



**P06** TYPICAL VALVE BOX

**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.



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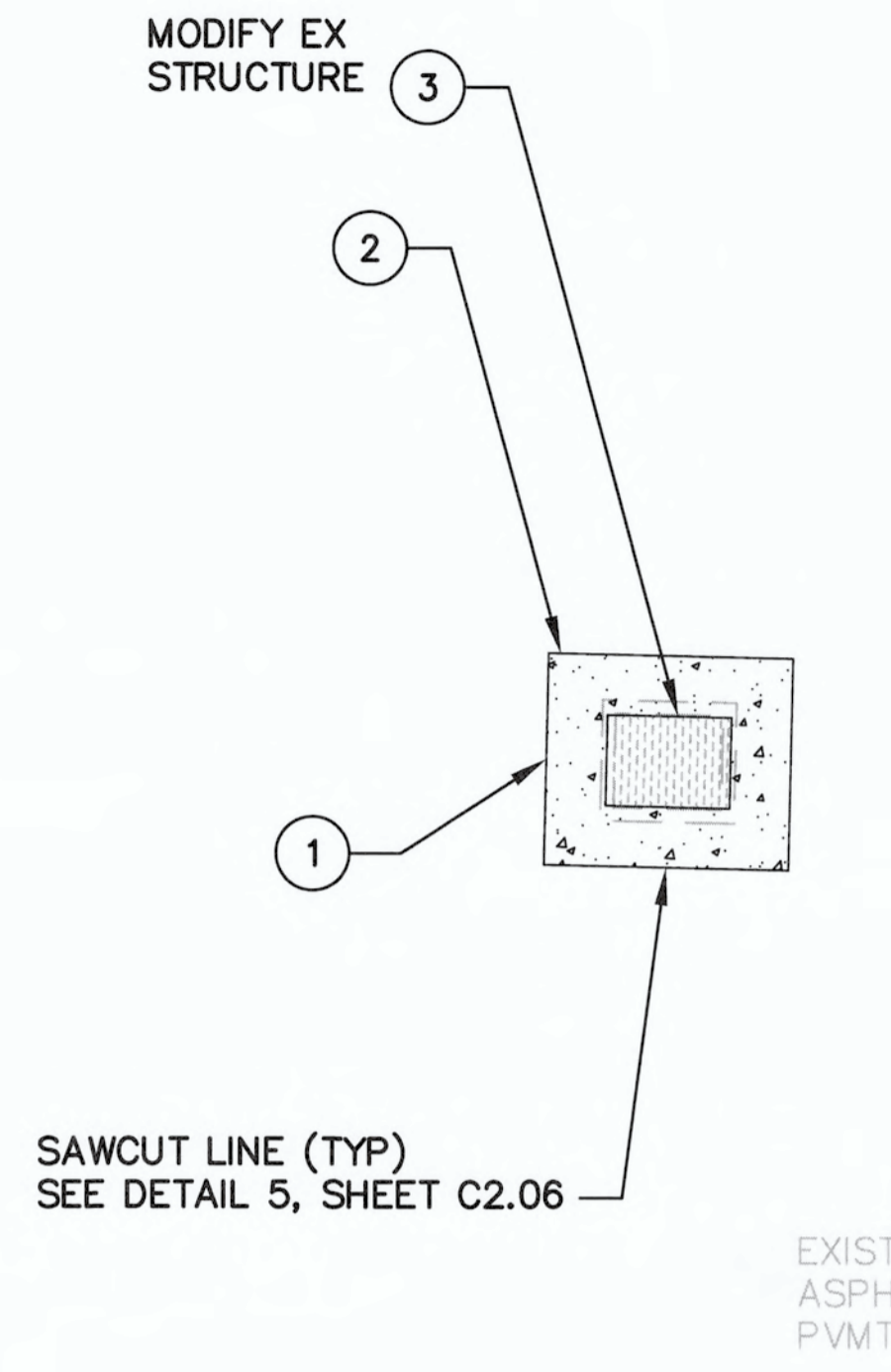
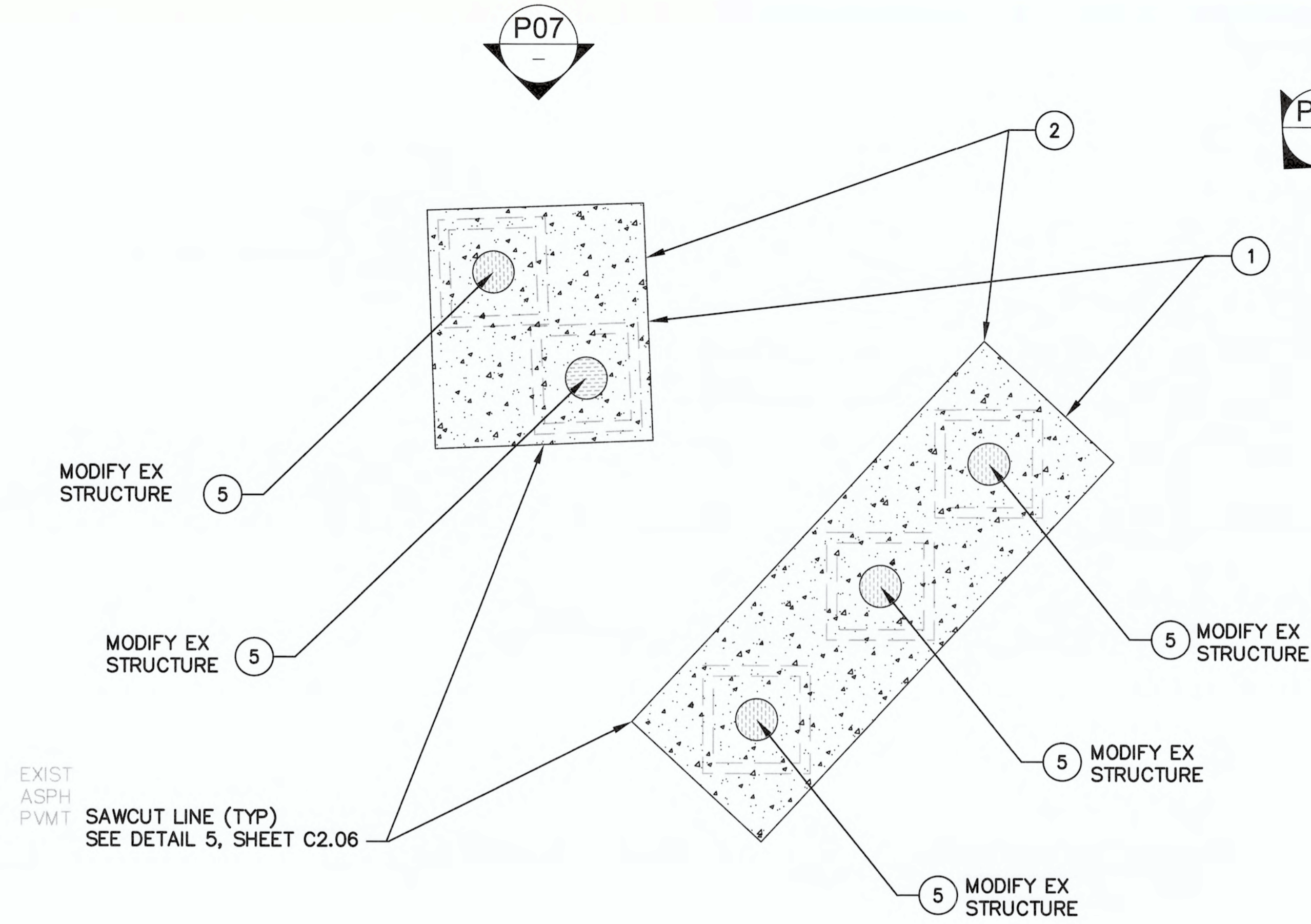


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PIERCE COUNTY TERMINAL  
OPERATIONAL PAVEMENT REPAIRS 2022  
ENLARGED UTILITIES PLAN 02

6635  
**C1.02**  
SHEET 6 OF 16  
CONT./CONS: 071685  
M. ID: 201038.01  
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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 TYPICAL CPV, CPV, PV, PV & SV (ELEC / COMM VAULTS)  
SCALE: 1" = 5'

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

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.



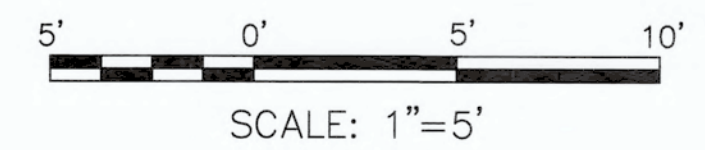
P07 TYPICAL CPV & CPV



P08 TYPICAL PV, PV & SV



P09 TYPICAL CB



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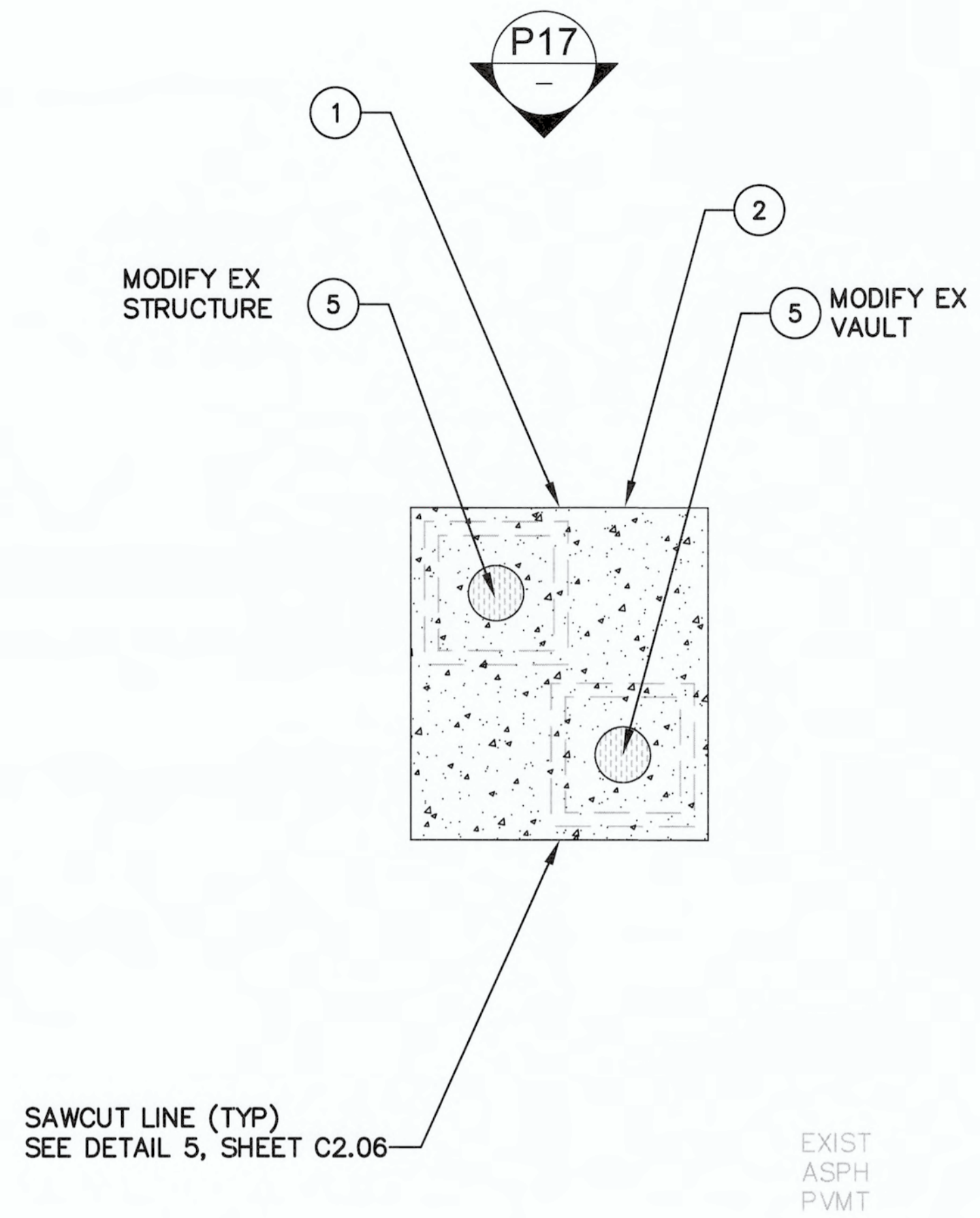


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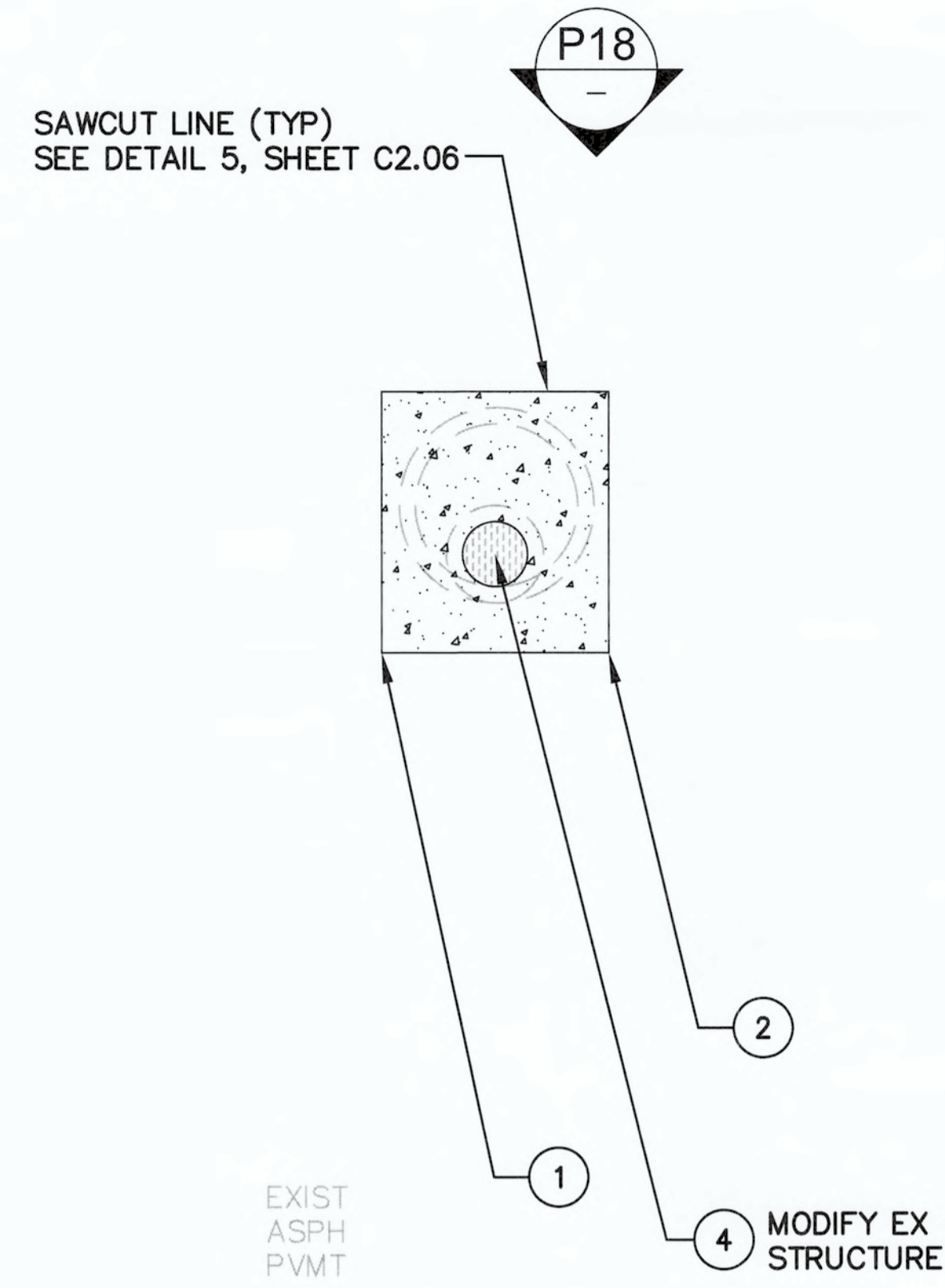
PIERCE COUNTY TERMINAL  
OPERATIONAL PAVEMENT REPAIRS 2022  
ENLARGED UTILITIES PLAN 03

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

6635  
C1.03  
SHEET 7 OF 16  
CONT/CONS: 071685  
M. ID: 201038.01  
PHASE: BID SET



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



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



**P17** TYPICAL PV & SV



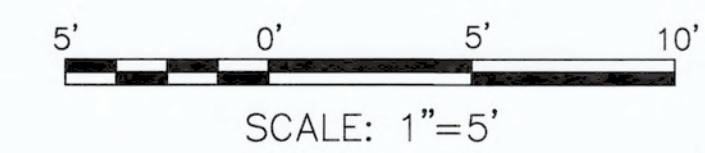
**P18** TYPICAL CB

**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.

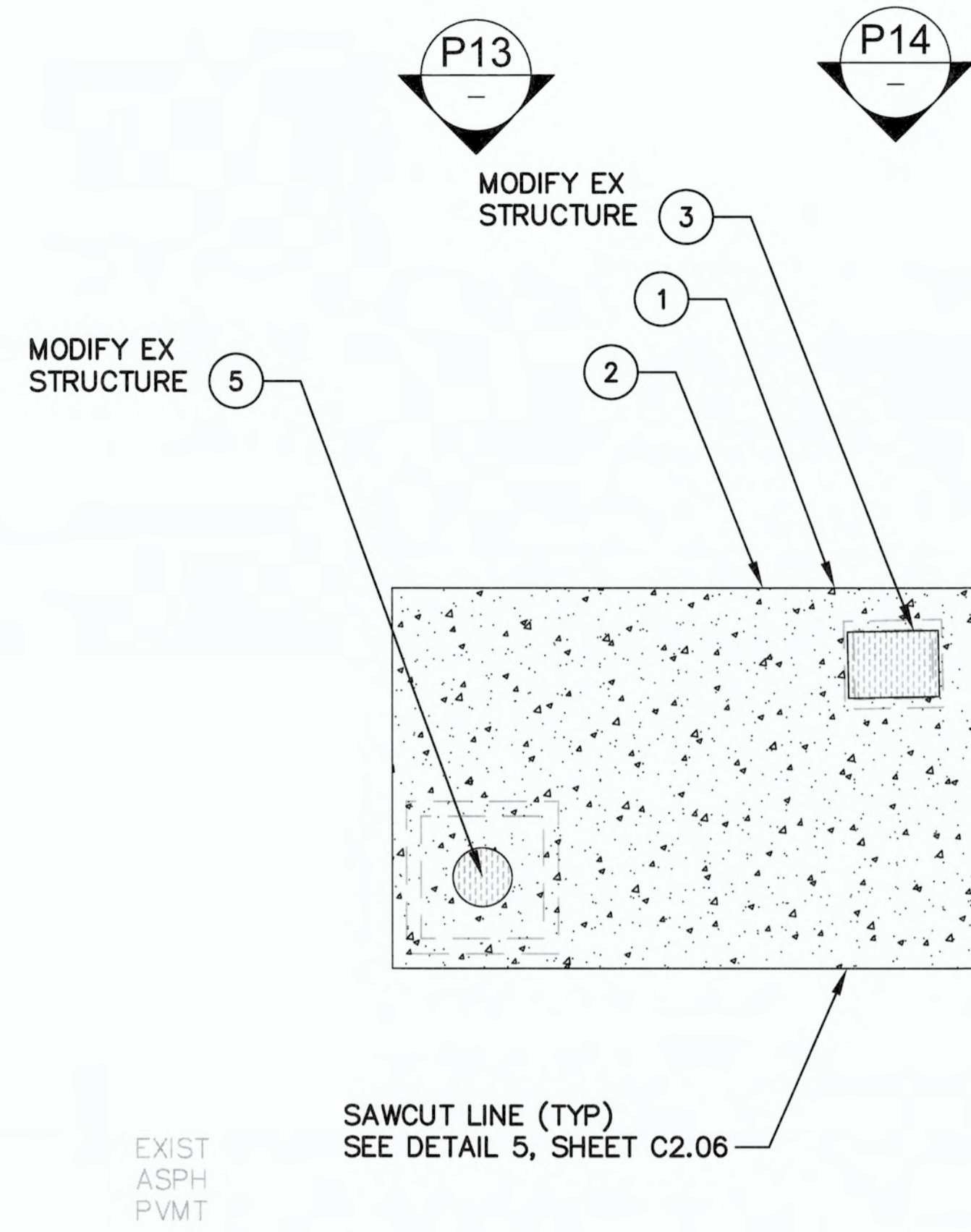


<b>6635</b> <b>C1.04</b> SHEET 8 OF 16 CONT/CONS: 071685 M. ID: 201038.01 PHASE: BID SET	<b>PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022</b> ENLARGED UTILITIES PLAN 04		A. PATTERSON 4/6/22 CHECKED BY DATE	S. GRAY 4/6/22 PROJ. ENGR DATE
	TOWNSHIP: 20N RANGE: 3E SECTION: MLLW	DAT-HRZNAD83/2007 VERT: MLLW	PARCEL: AS NOTED DRAWING SCALE: AS NOTED	APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENG. DATE
600 UNIVERSITY STREET, SUITE 810 SEATTLE, WA 98101 (206) 622-0222		moffatt & nichol	MARK: REVISION: BY: DATE:	APPR: DATE:

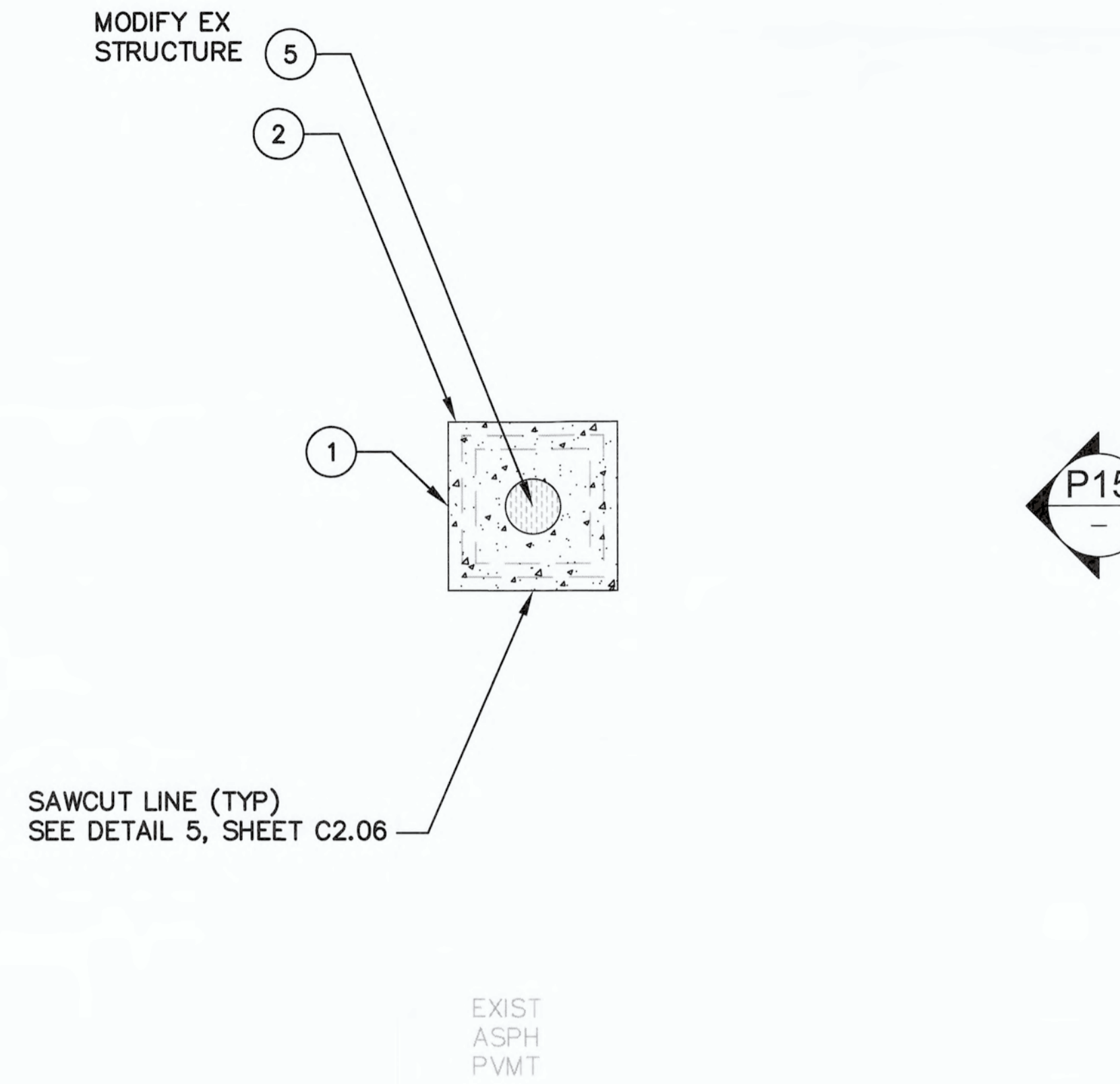


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**13** TYPICAL CB (TYPE 1L CB) & CPV (POWER VAULT)  
SCALE: 1" = 5'



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



**P13** CPV



**P14** TYPICAL CB



**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.



 P.O. BOX 1837 TACOMA, WA 98401 (206)383-8441	DATE:	
	APPR:	
 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 462-0222	BY:	
	REVISION:	
	MARK:	
	PROJECT:	

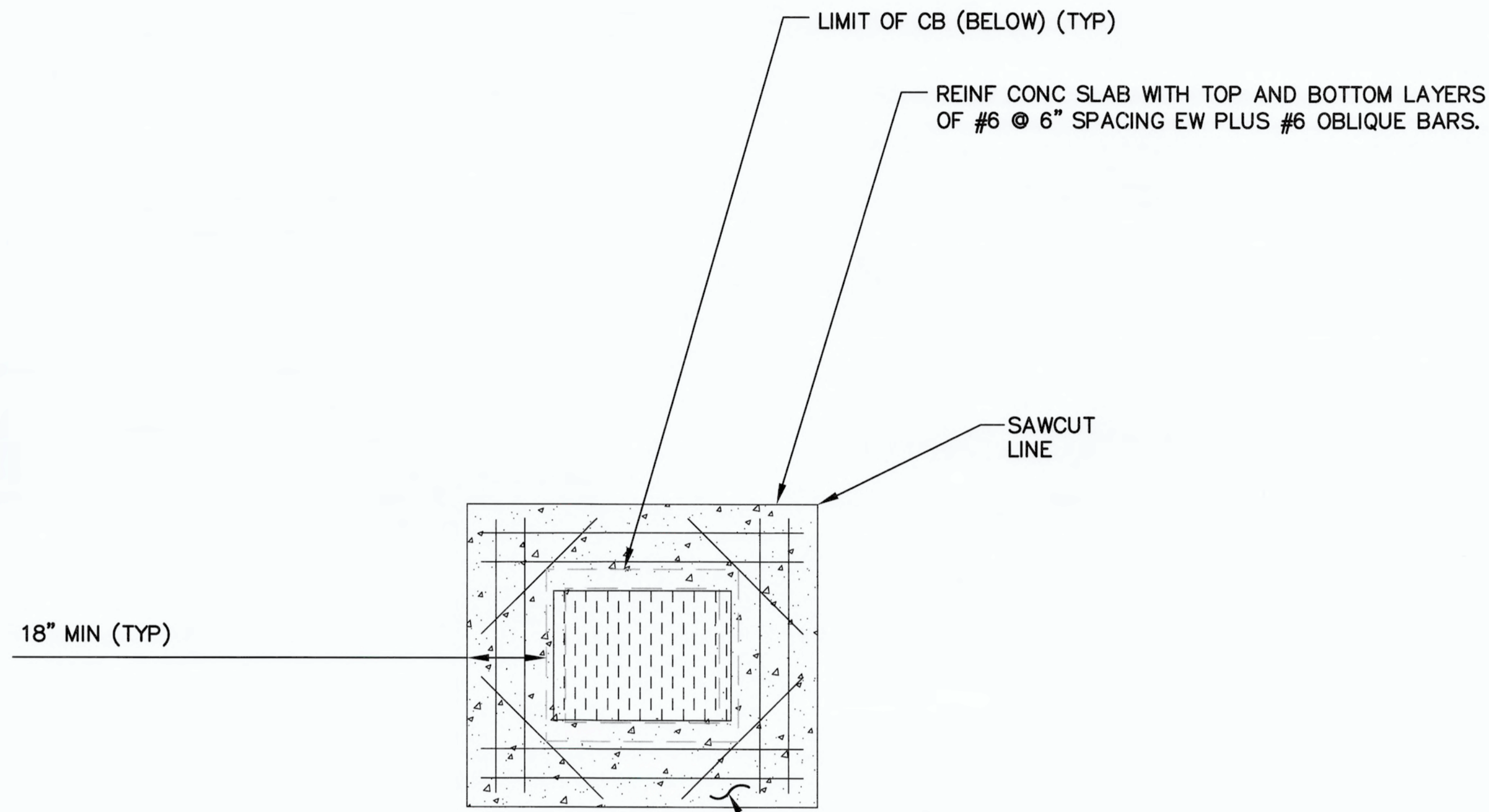
A. PATTERSON	4/6/22	CHECKED BY	DATE
S. GRAY	4/6/22	PROJ. ENGR	DATE
T. HOWARD	4/6/22	DIRECTOR	DATE
PRINTED BY: cgreene		Apr 06, 2022	
PORT ADDRESS: ONE SITCUM PLAZA		TACOMA, WA 98401-1837	

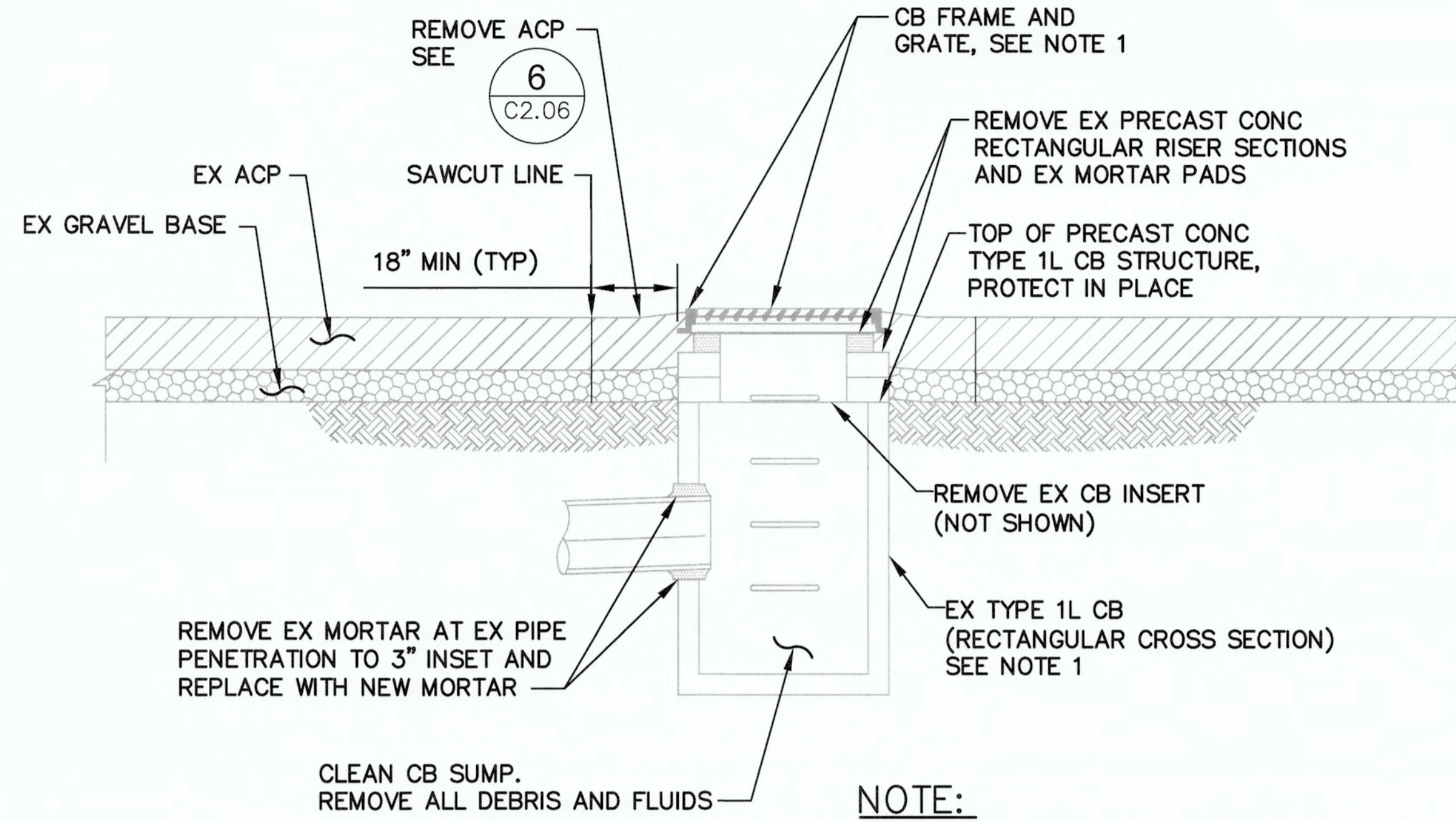
<b>PIERCE COUNTY TERMINAL</b> <b>OPERATIONAL PAVEMENT REPAIRS 2022</b> ENLARGED UTILITIES PLAN 05	TOWNSHIP:	20N	RANGE:	3E	SECTION:	
	DATE-HRZ:	NAD83/2007	VERT:	MLLW	DRAWING SCALE:	AS NOTED
	PARCEL:					
	CONTRACT/CONS:	071685				
M. ID:	201038.01					
PHASE:	BID SET					

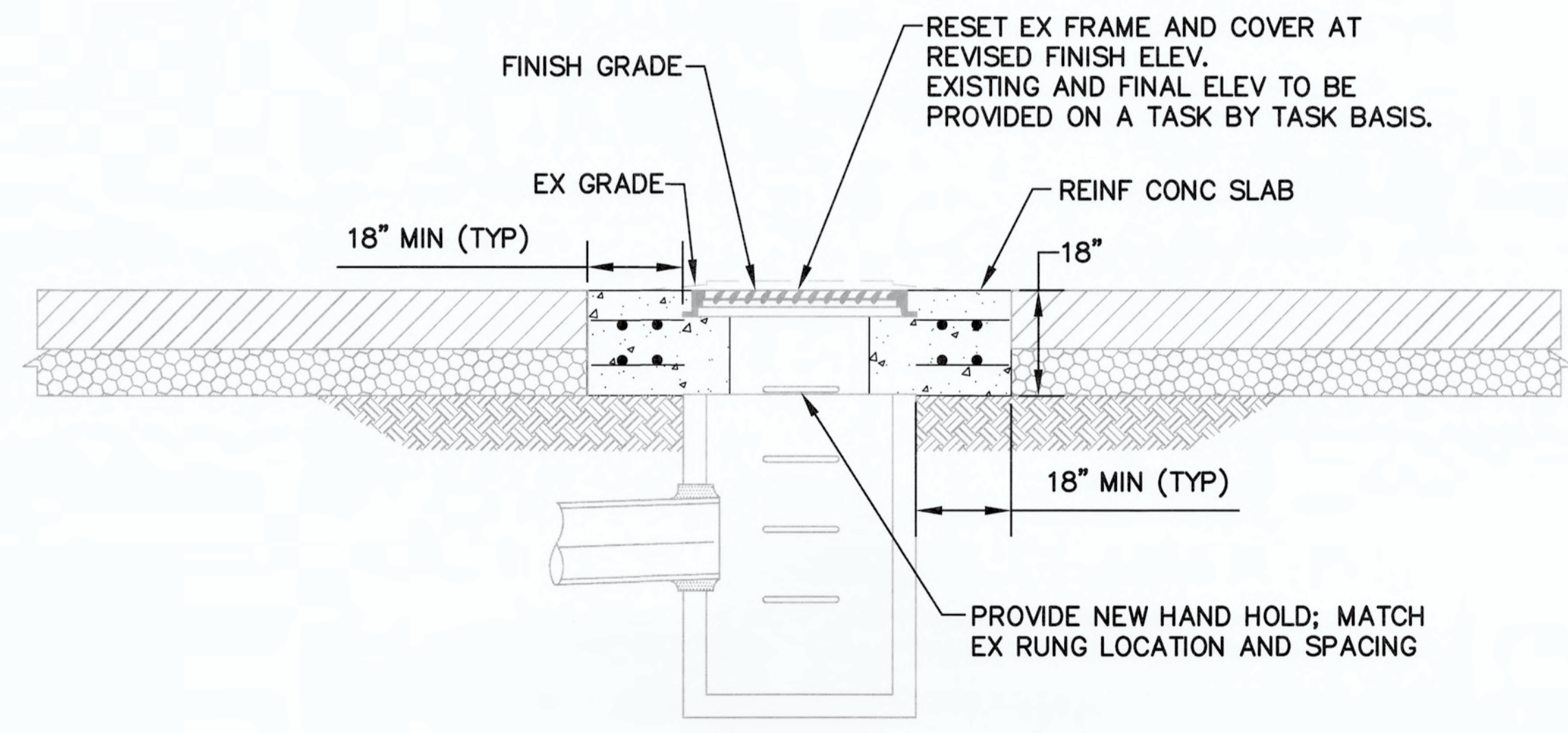
6635	<b>C1.05</b>
SHEET 9 OF 16	



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



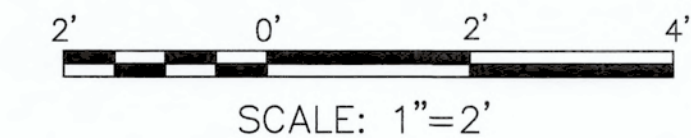
**SECTION - EXISTING CONDITION AND PREPARATION**  
SCALE: 1"=2'



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

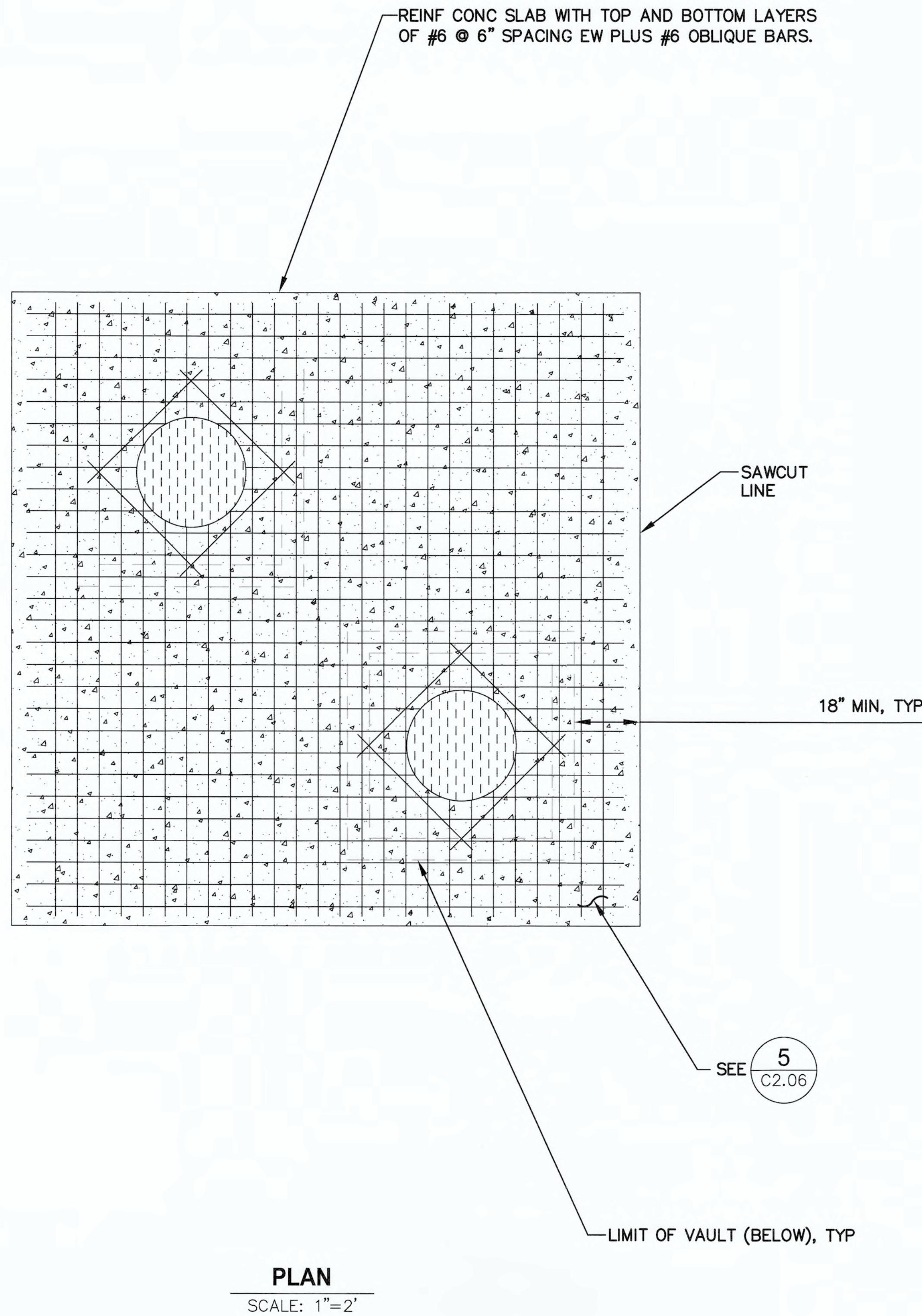
**1 TYPICAL REHABILITATION OF TYPE 1L CB**  
VARIES

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

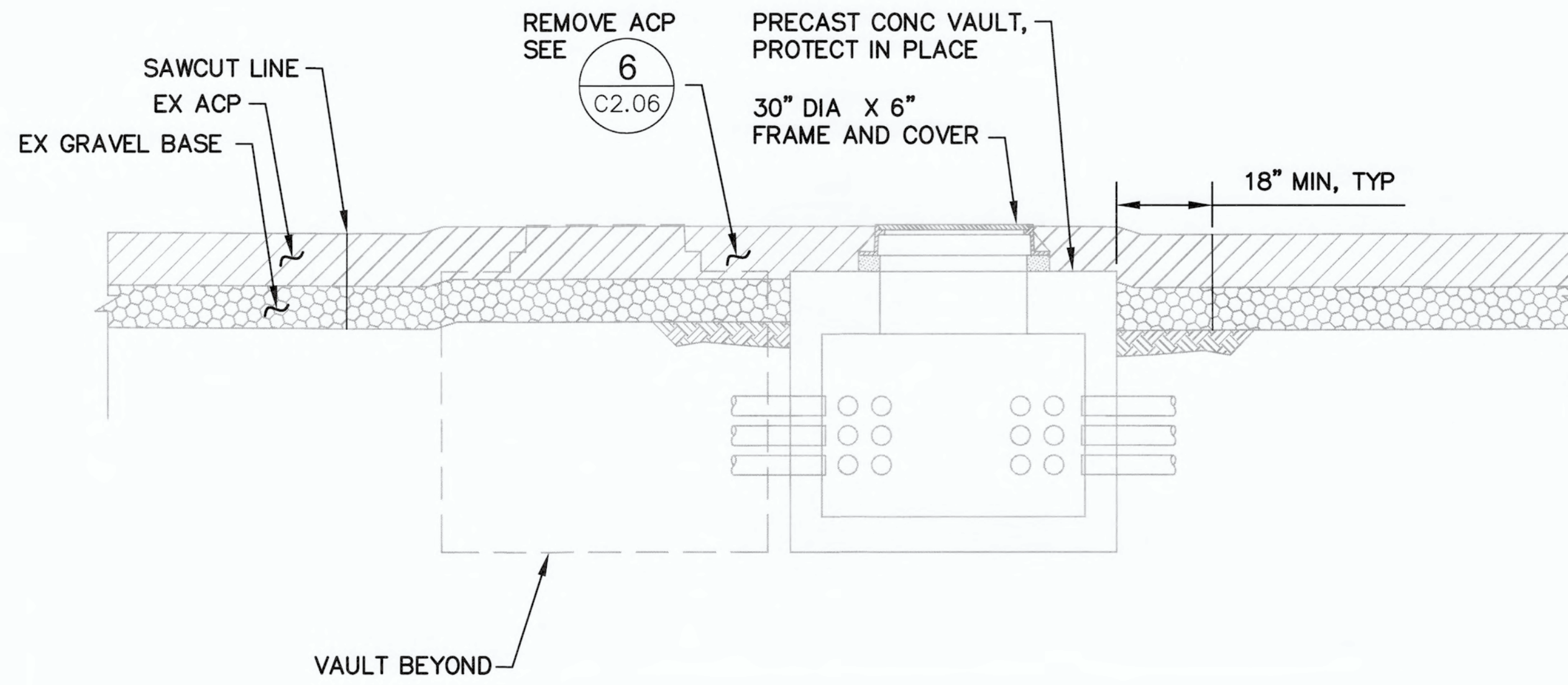


			A. PATTERSON 4/6/22 CHECKED BY DATE
	600 UNIVERSITY STREET, SUITE 610 SEASIDE, WA 98134 (206) 827-0222	T. HOWARD DIRECTOR ENGR. DATE: 4/6/22	S. GRAY PROJ. ENGR. DATE: 4/6/22
<b>6635</b> <b>C2.01</b> SHEET 10 OF 16	<b>PIERCE COUNTY TERMINAL</b> <b>OPERATIONAL PAVEMENT REPAIRS 2022</b> SITE DETAILS 01	TOWNSHIP: 20N DAT-HRZ: NAD83/2007 RANGE: 3E SECTION: M. ID: 201038.01 VERT: MLLW PARCEL:	PRINTED BY: cgreene Apr 06, 2022 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837
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	

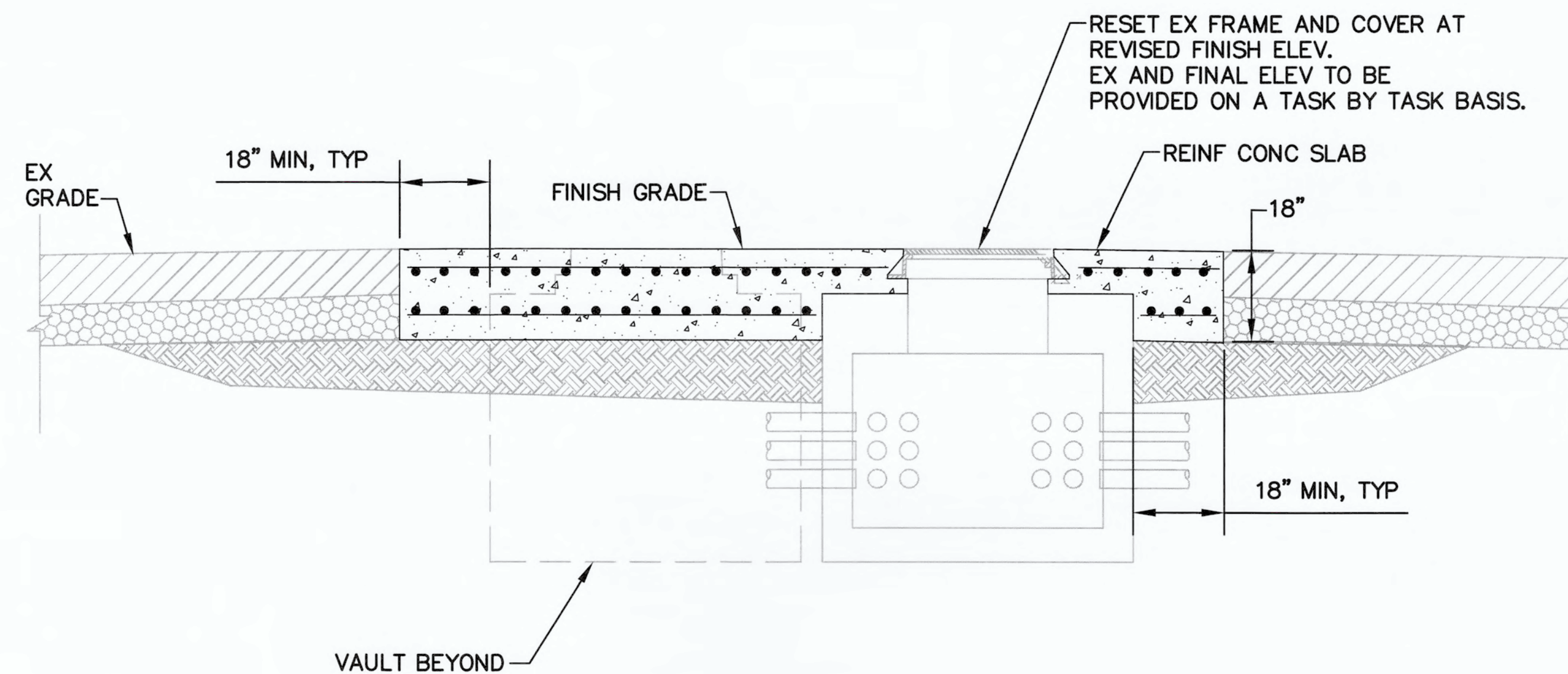




PLAN  
SCALE: 1"=2'

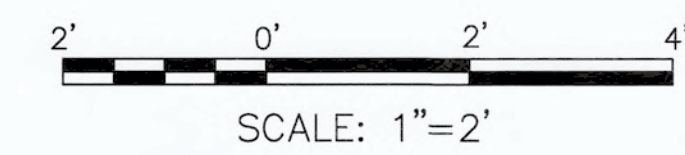


SECTION - EXISTING CONDITION AND PREPARATION  
SCALE: 1"=2'



SECTION - FINISH CONDITION  
SCALE: 1"=2'

3 TYPICAL REHABILITATION OF VAULT  
VARIES



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 (206) 822-0222



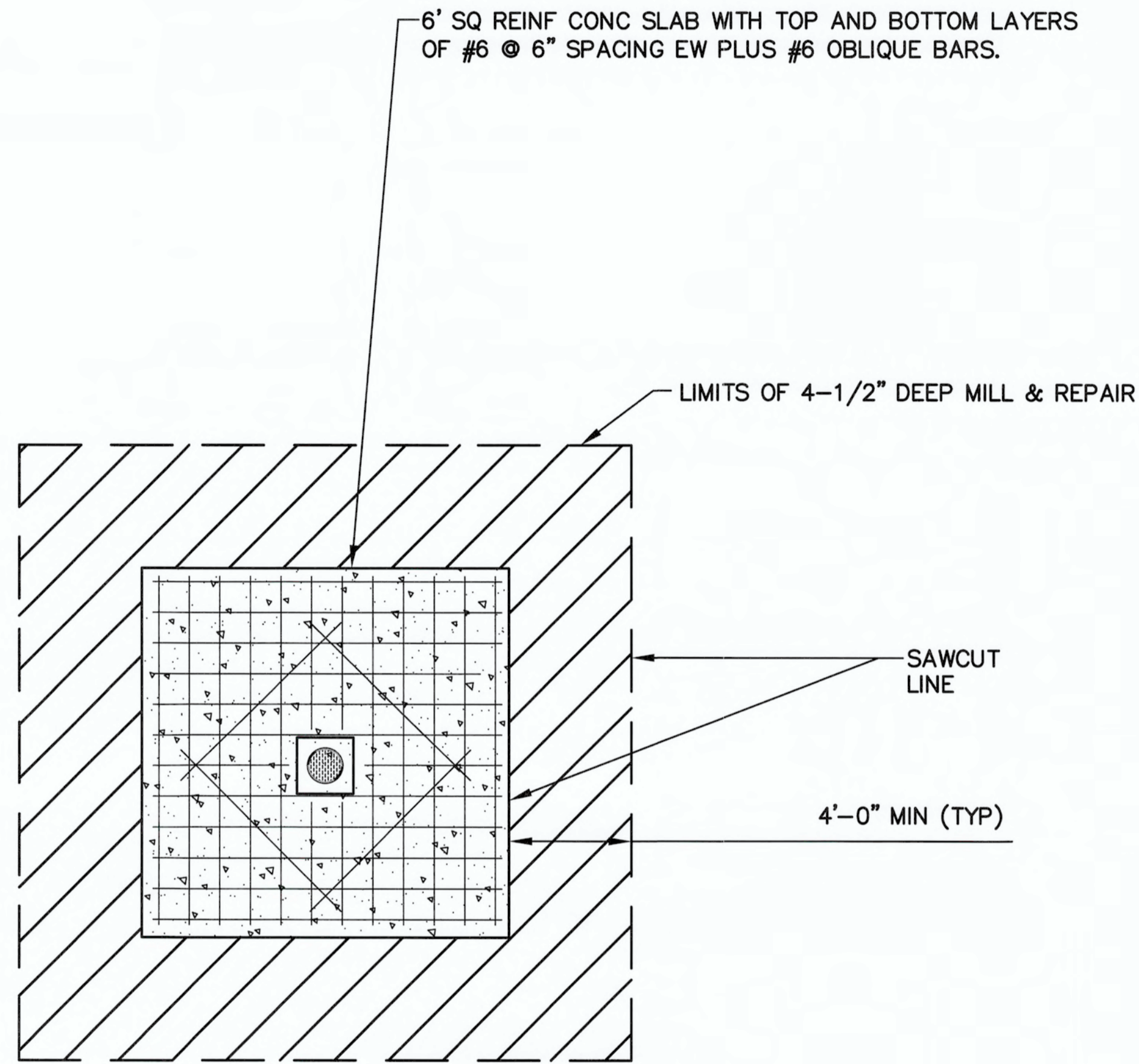
APPROVED: *[Signature]*  
 T. HOWARD  
 DIRECTOR  
 DATE: 4/6/22  
 PRINTED BY: cgreene  
 DATE: Apr 06, 2022  
 PORT ADDRESS: ONE SITCUM PLAZA  
 TACOMA, WA 98401-1837

**PIERCE COUNTY TERMINAL  
 OPERATIONAL PAVEMENT REPAIRS 2022**  
 SITE DETAILS 03

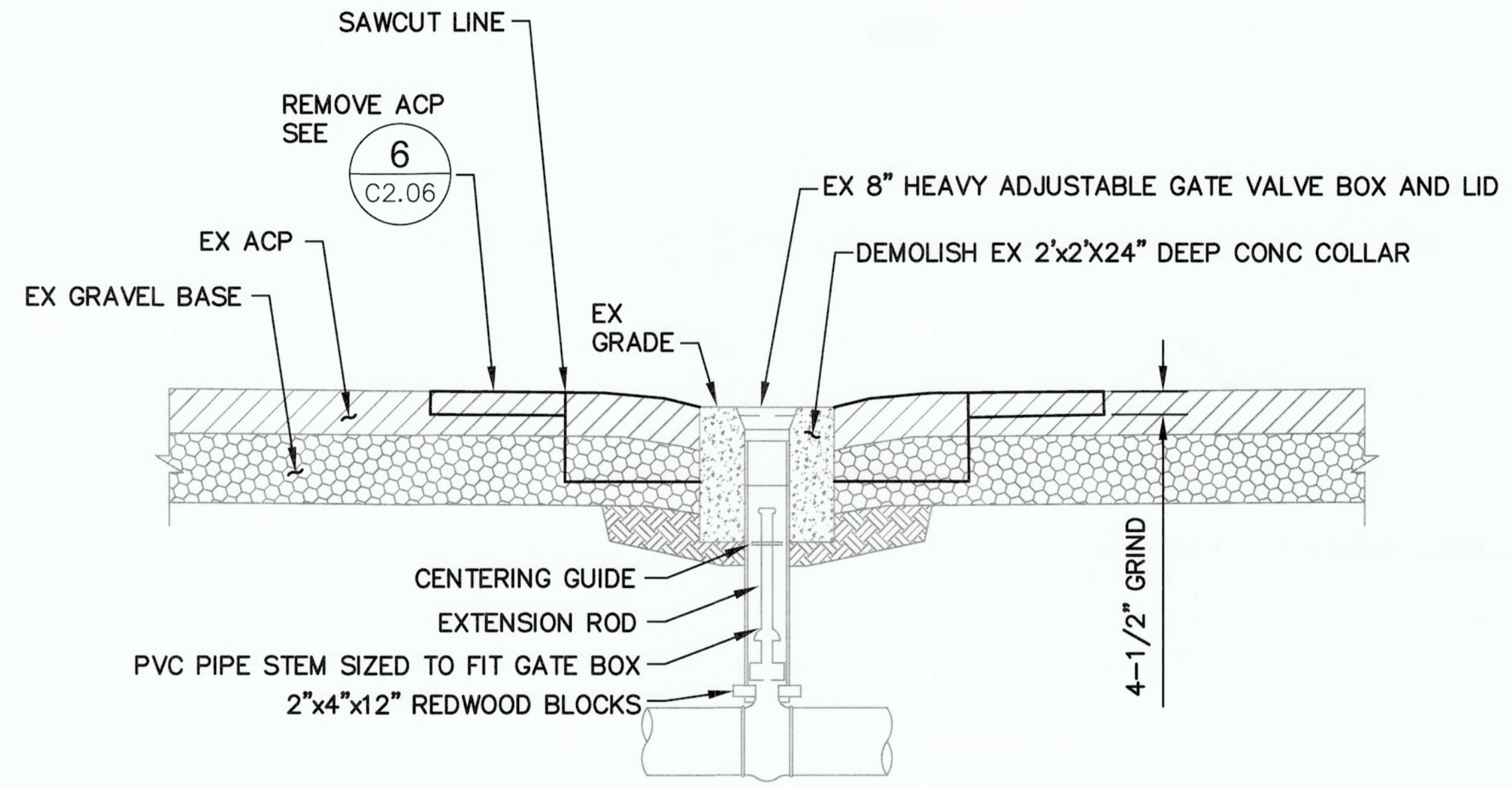
TOWNSHIP: 20N  
 RANGE: 3E  
 SECTION: MLLW  
 DAT-HRZ: NAD83/2007  
 VERT: MLLW  
 DRAWING SCALE: AS NOTED

6635  
**C2.03**  
 SHEET 12 OF 16  
 CONT/CONS: 071685  
 M. ID: 201038.01  
 PHASE: BID SET

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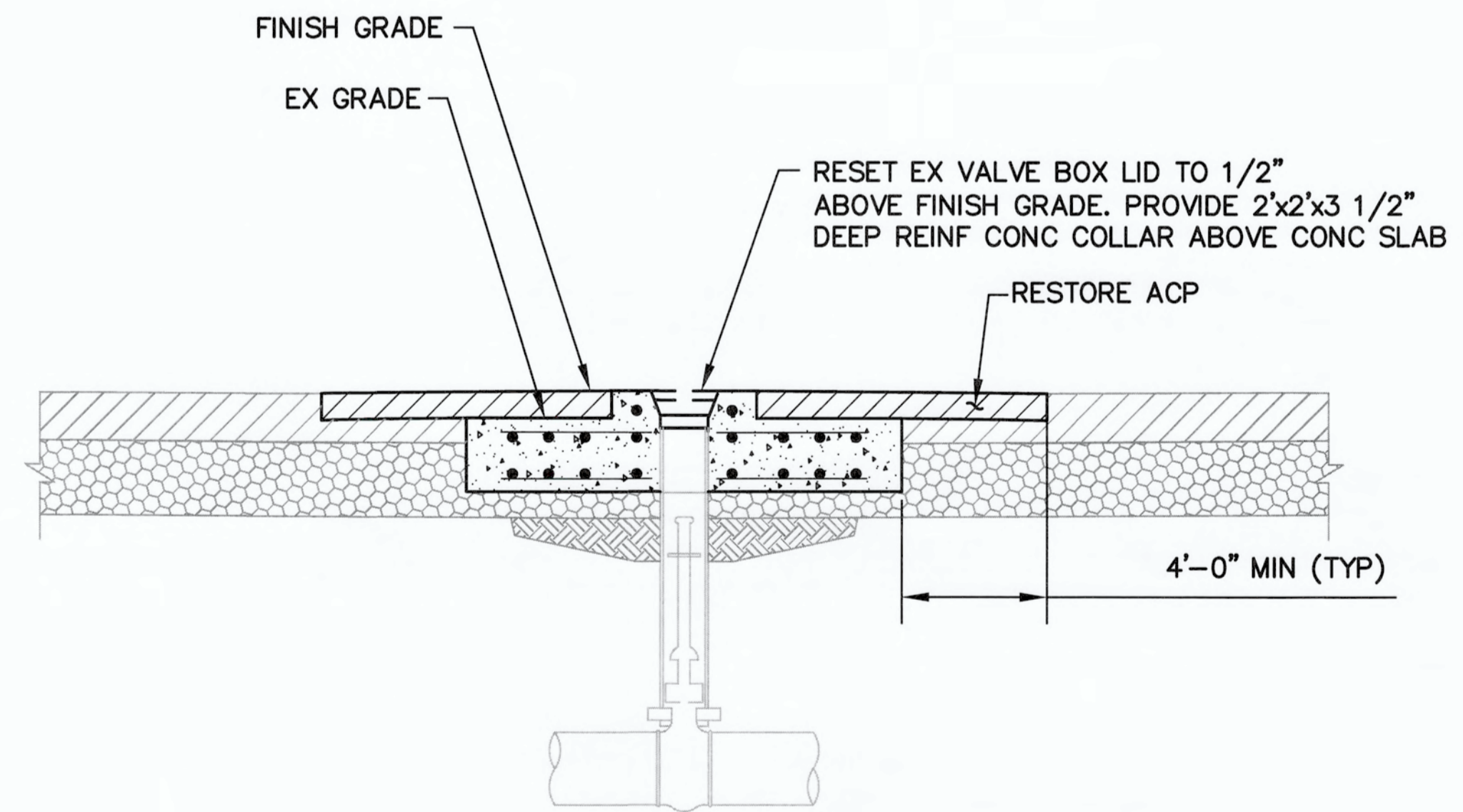


PLAN  
SCALE: 1"=2'



SECTION - EXISTING CONDITION AND PREPARATION

SCALE: 1"=2'

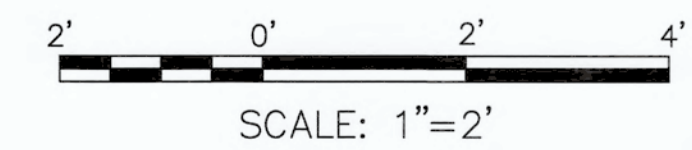


SECTION - FINISH CONDITION

SCALE: 1"=2'

4 VARIES

TYPICAL REHABILITATION OF WATER VALVE BOX

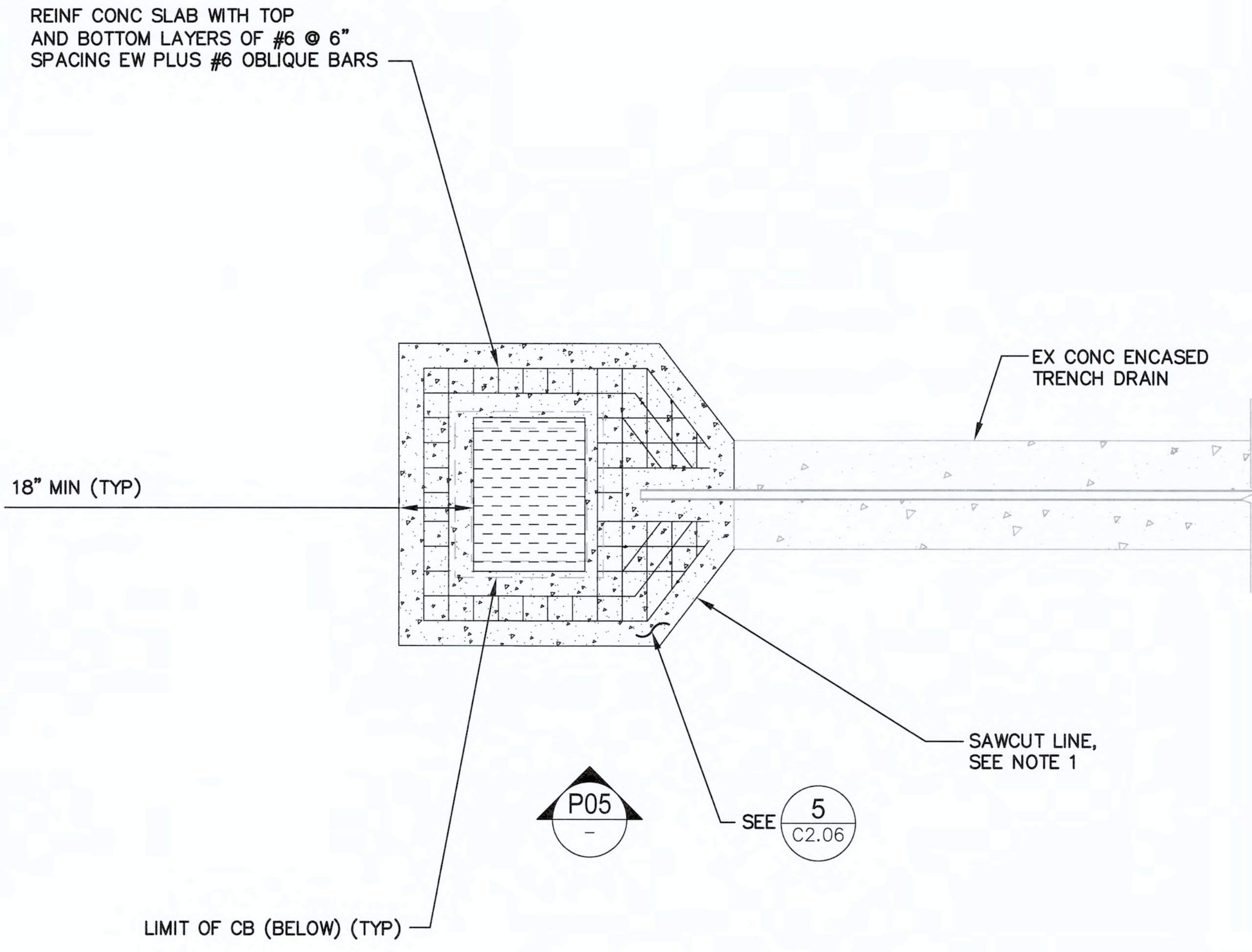


APPROVED:	A. PATTERSON	4/6/22
CHECKED BY:	S. GRAY	4/6/22
DIRECTOR ENG. DATE:	T. HOWARD	
PRINTED BY:	egreene	Apr 06, 2022
PORT ADDRESS:	ONE SITCUM PLAZA	
DRAWING SCALE:	TACOMA, WA 98401-1837	

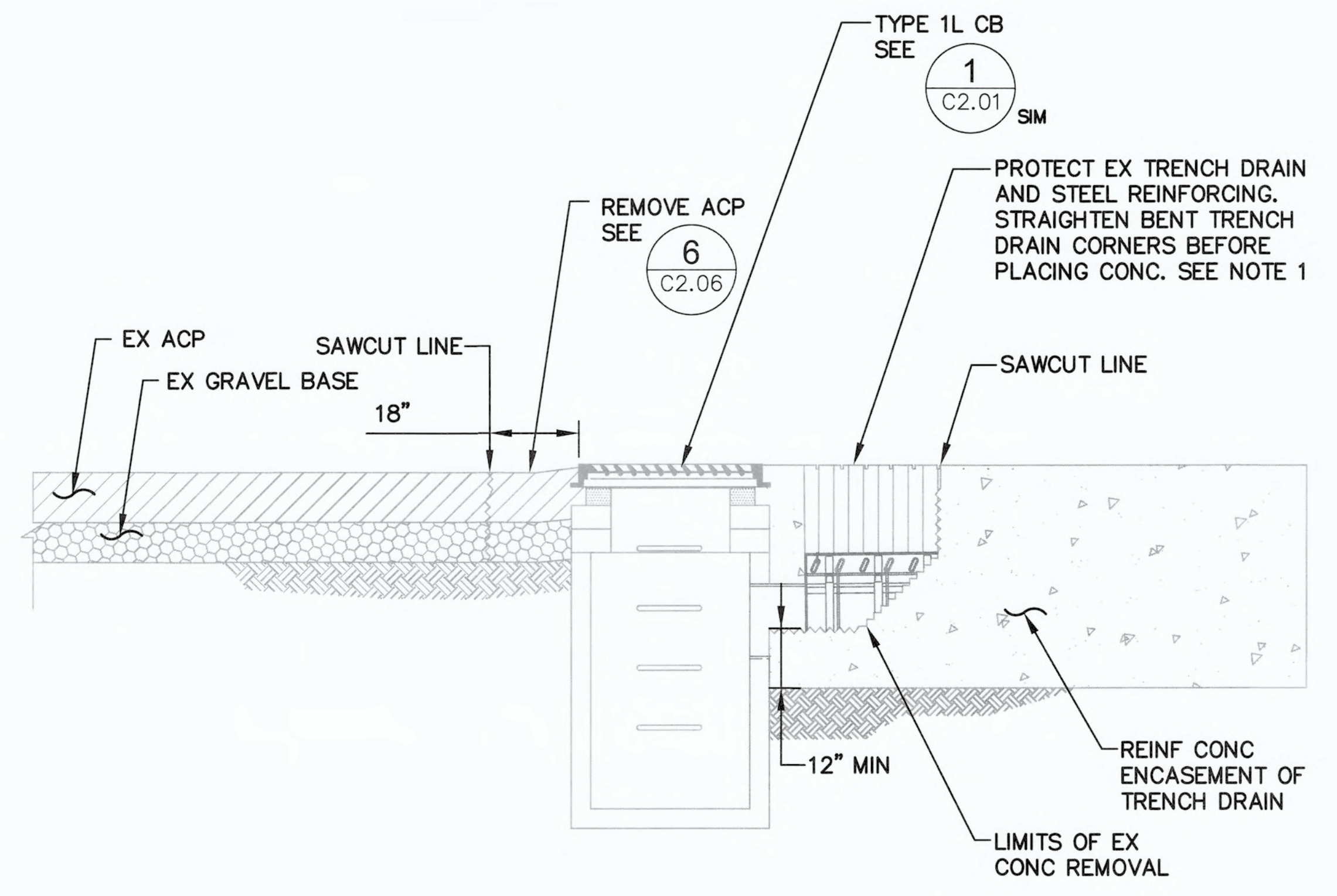
PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022		
SITE DETAILS 04		
TOWNSHIP: 20N	RANGE: 3E	SECTION:
DAT-HRZ:NAD83/2007	VERT: MLLW	
PARCEL:	DRAWING SCALE:	AS NOTED

6635	C2.04
SHEET 13 OF 16	
CONT/CONS: 071685	
M. ID: 201038.01	
PHASE: BID SET	

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



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



PHOTO - EXAMPLE EXISTING CONDITION

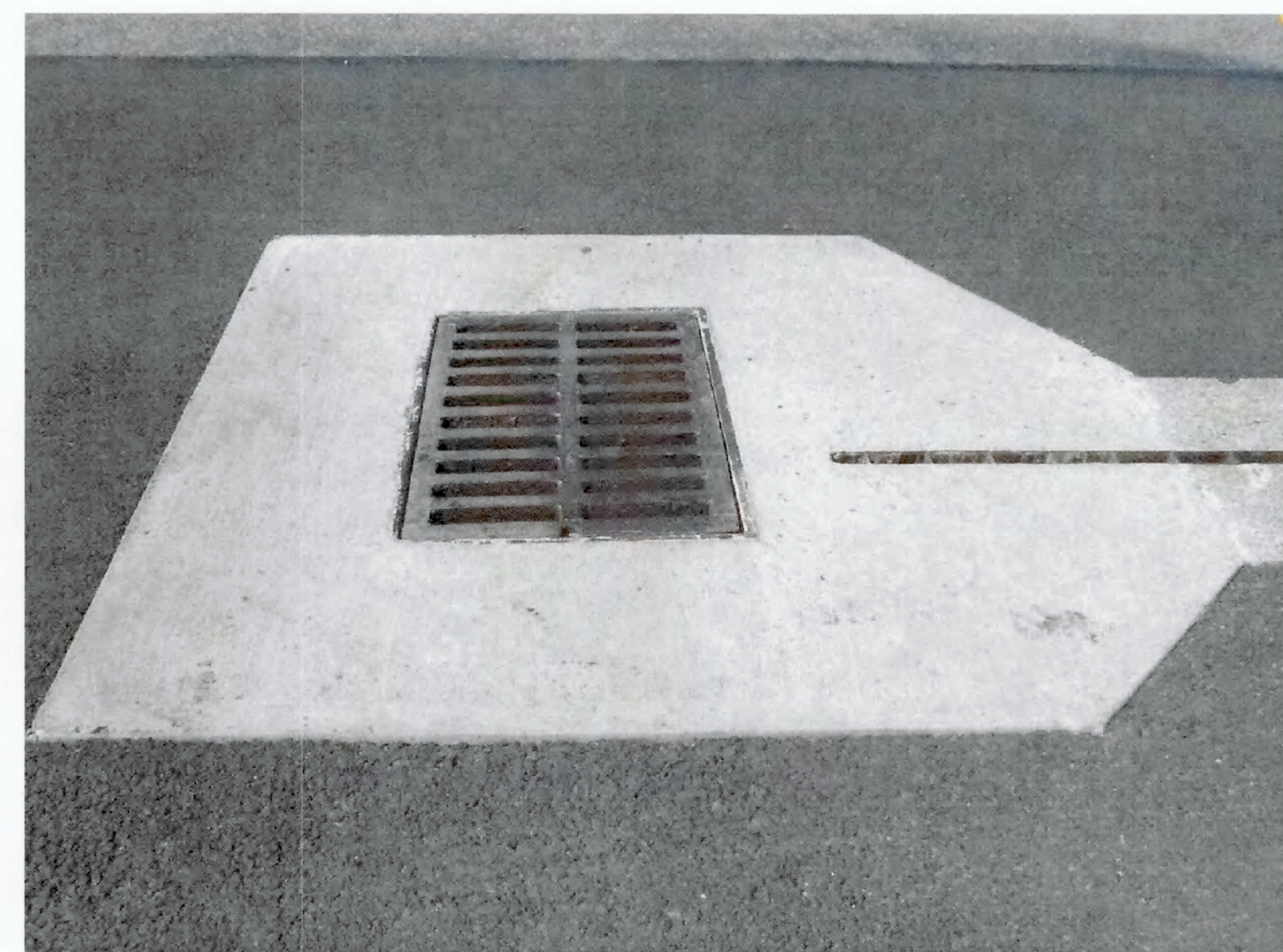
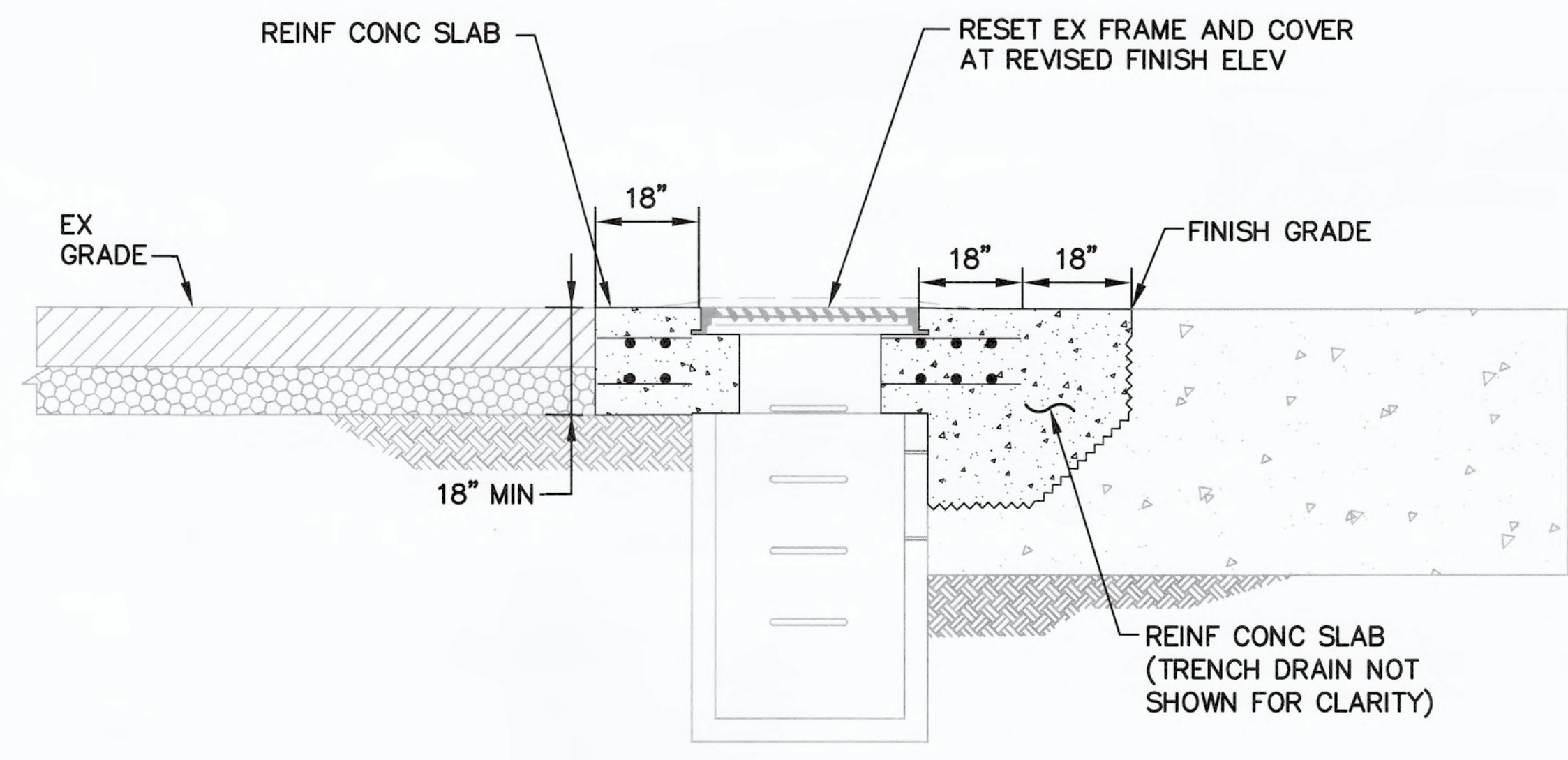
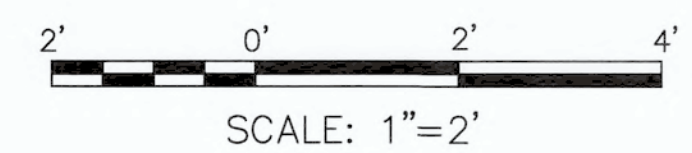


PHOTO - EXAMPLE FINISH CONDITION



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



**NOTE:**

- 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.

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

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



**moffatt & nichol**  
600 UNIVERSITY STREET, SUITE 610  
SEATTLE, WA 98101  
(206) 622-0222



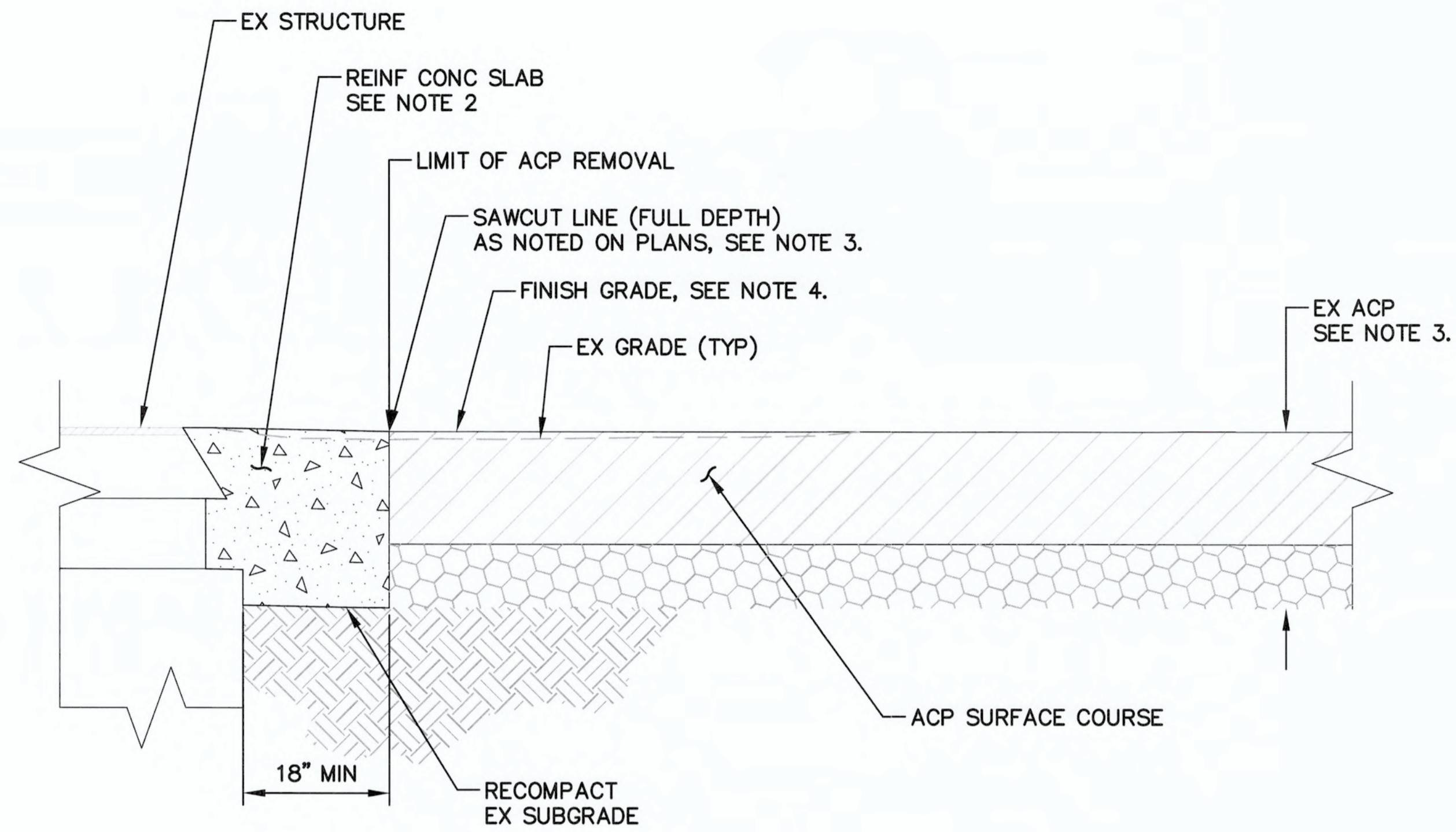
APPROVED: *[Signature]*  
T. HOWARD  
DIRECTOR  
DATE: 4/6/22  
PROJECT: ONE SITCUM PLAZA  
PORT ADDRESS: ONE SITCUM PLAZA  
TACOMA, WA 98401-1837

**PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS 2022**  
SITE DETAILS 05

TOWNSHIP: 20N  
RANGE: 3E  
SECTION: 3E  
M. ID: 201038.01  
DATE: 201038.01  
PHASE: BID SET

DRAWING SCALE: AS NOTED

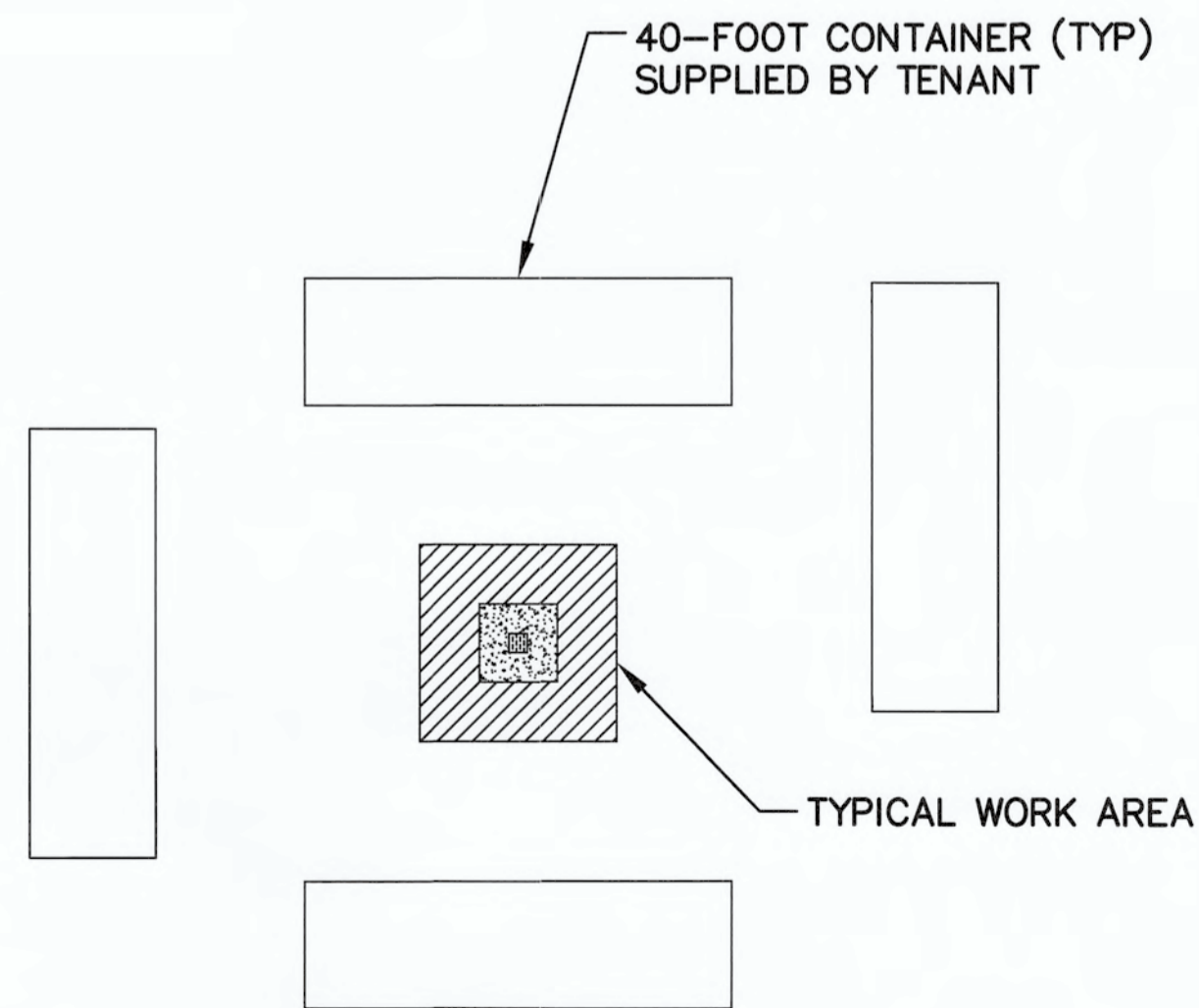
6635  
**C2.05**  
SHEET 14 OF 16



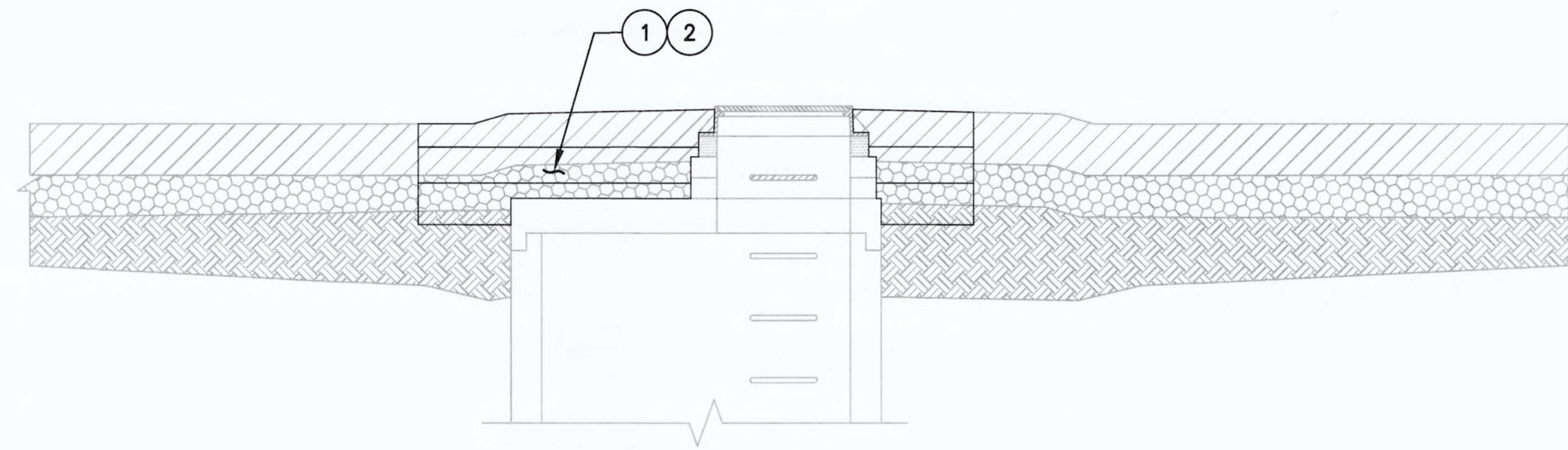
**NOTES:**

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.

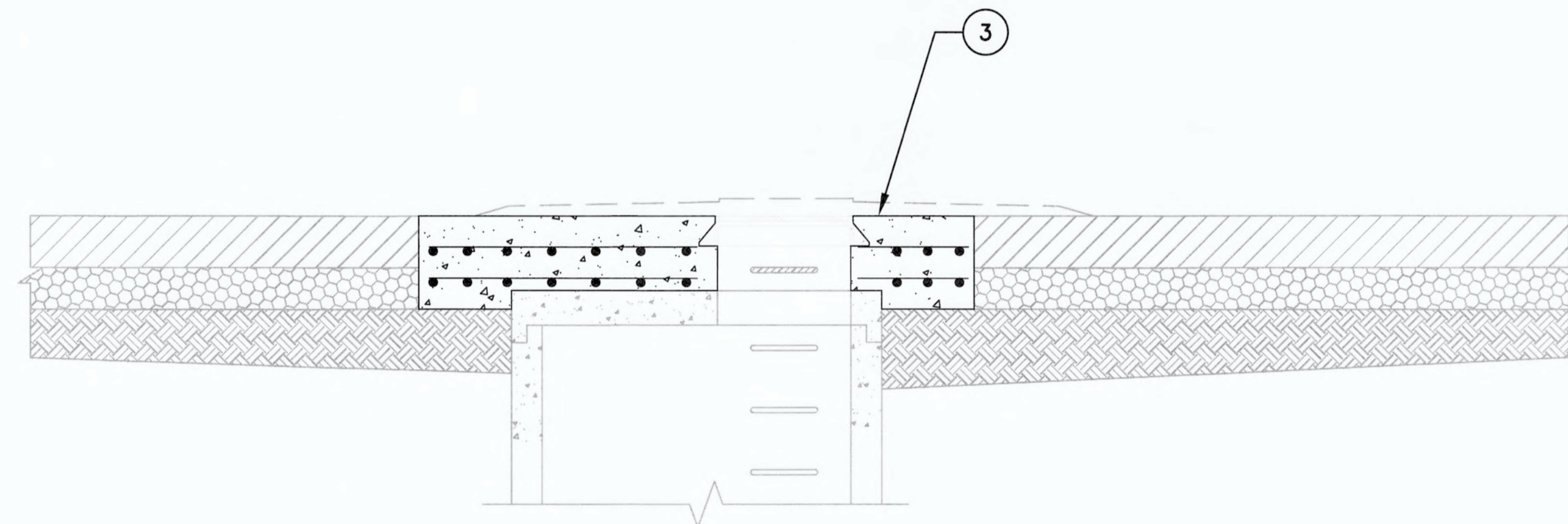
**5 TYPICAL ASPHALT CONCRETE PATCHING AT EXISTING STRUCTURE**  
VARIES SCALE: 1" = 1'



**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'

