

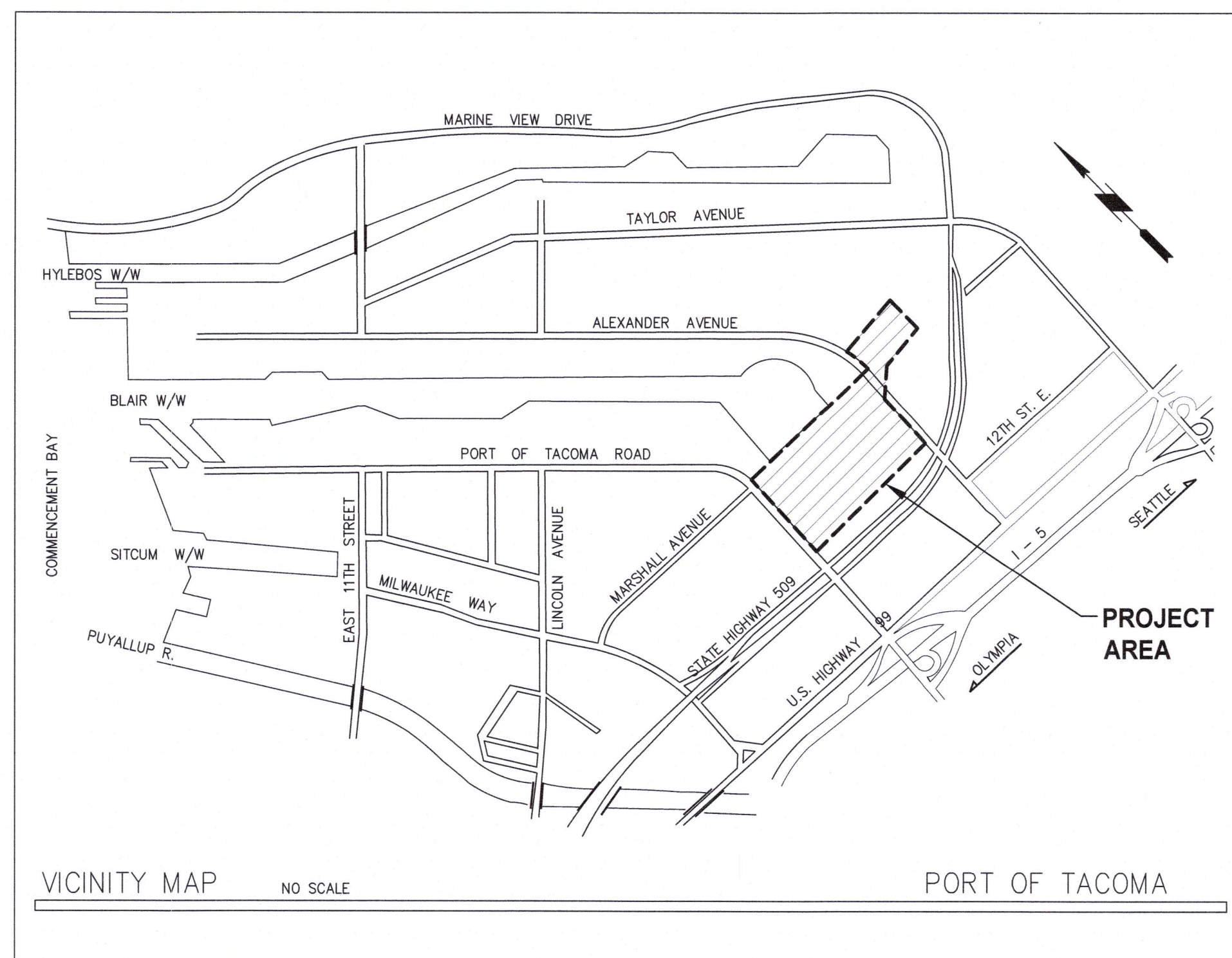
**PIERCE COUNTY TERMINAL
OPERATIONAL PAVEMENT REPAIRS
PROJECT NO. 201038.01
CONTRACT NO. 071552**

**JOHN MCCARTHY
DICK MARZANO
DEANNA KELLER
DON MEYER
KRISTIN ANG**

ERIC JOHNSON
Executive Director

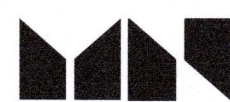
THAIS HOWARD, PE
Director of Engineering

DAVID MYERS, ARCHITECT
Project Manager



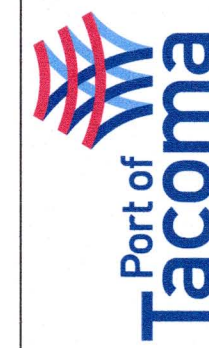
DRAWING LIST		
SHEET DESIGNATION	SHEET #	SHEET TITLE
G1.01	1	COVER PAGE & SHEET INDEX
G1.02	2	GENERAL NOTES, ABBREVIATIONS & LEGEND
G1.03	3	TESC DETAILS
C0.00	4	SITE PLAN
C1.01	5	ENLARGED UTILITIES PLAN 01
C1.02	6	ENLARGED UTILITIES PLAN 02
C1.03	7	ENLARGED UTILITIES PLAN 03
C1.04	8	ENLARGED UTILITIES 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:



moffatt & nichol

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



moffatt & nichol
600 UNIVERSITY STREET, SUITE 610
SEATTLE, WA 98101

(206) 622-0222		P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841	
MARK:	REVISION:	BY:	DATE:
		APPR:	

A. PATTERSON 8/13/2021

APPROVED: _____

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

6635
G1.01

SHEET 1 OF 16		DIRECTOR ENG. DATE		PROJ. ENGR. DATE	
CONT/CONS: 071552		TOWNSHIP: 20N		RANGE: 3E	
		SECTION:		PRINTED BY: careene Aug 13, 2021	

M. ID:	201038.01	DAT-HRZ:NAD83/2007	VERT: MLLW	PORT ADDRESS:ONE SITCUM PLAZA
--------	-----------	--------------------	------------	-------------------------------

CEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837	8/13/2021	
------	-------------------------	-----------------------	-----------	--

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).

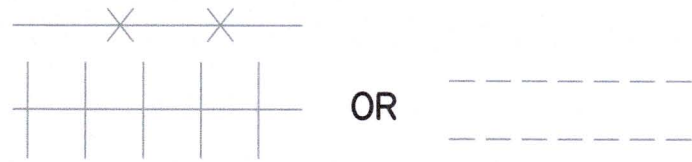
ABBREVIATIONS

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

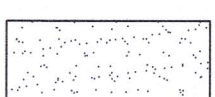
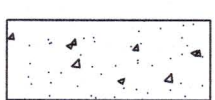
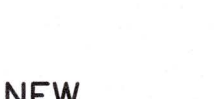
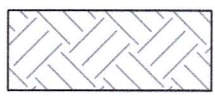
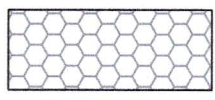
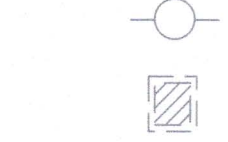
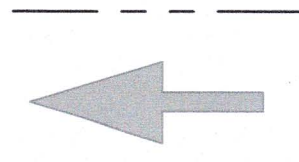
LEGEND

EXISTING



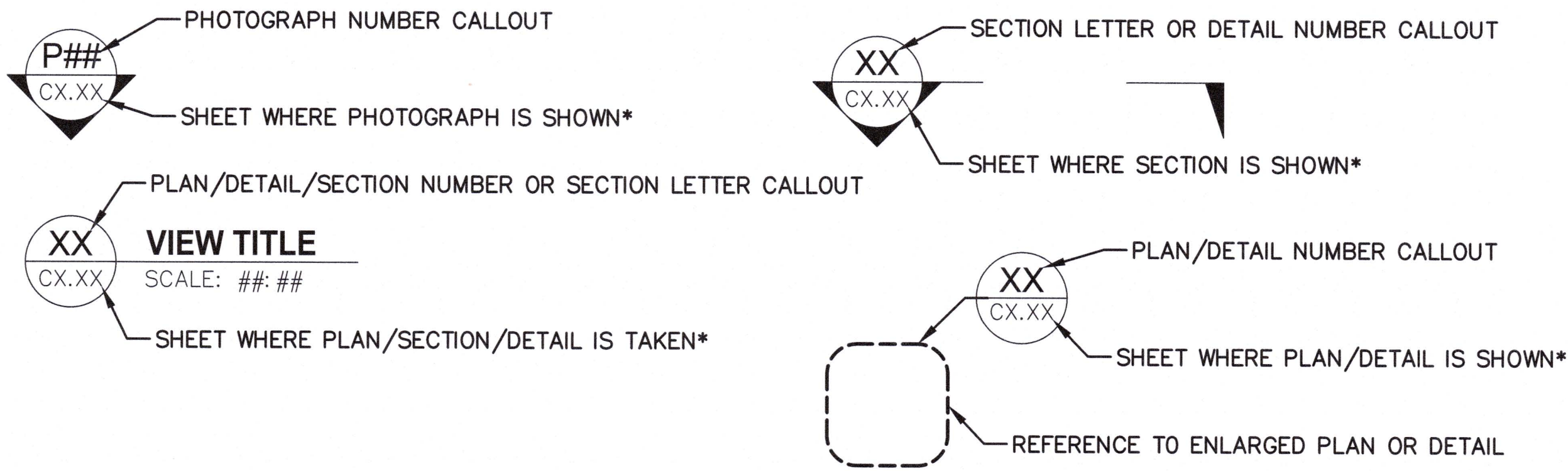
DESCRIPTION

- 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



NEW

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.

6635

G1.02

SHEET 2 OF 16

CONTRACT/CONS: 071552
M. ID: 201038.01
PHASE: BID SET

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

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

APPROVED: [Signature]
T. HOWARD
DIRECTOR
ENG. DATE: 8/13/2021
PRINTED BY: cgreene
Aug 13, 2021
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

A. PATTERSON 8/13/2021
CHECKED BY: DATE
S. GRAY 8/13/2021
PROJ. ENGR. DATE
cgreene Aug 13, 2021
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

Port of Tacoma

600 UNIVERSITY STREET, SUITE 810
SEATTLE, WA 98101
(206) 622-0222

moffatt & nichol

PIERCE COUNTY
WASHINGTON
REGISTERED PROFESSIONAL ENGINEER
8/13/2021

MARK: [] REVISION: [] BY: [] APPR: [] DATE: []

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

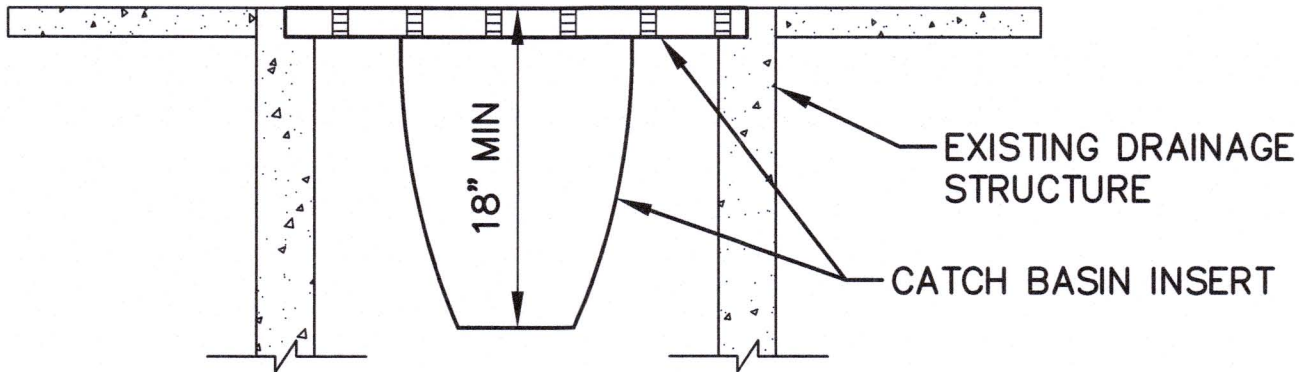
— BMP C152: SAWCUTTING AND SURFACING POLLUTION PREVENTION

— BMP C153: MATERIAL DELIVERY, STORAGE, AND CONTAINMENT

— BMP C154: CONCRETE WASHOUT AREA

— BMP C160: CERTIFIED EROSION AND SEDIMENT CONTROL LEAD

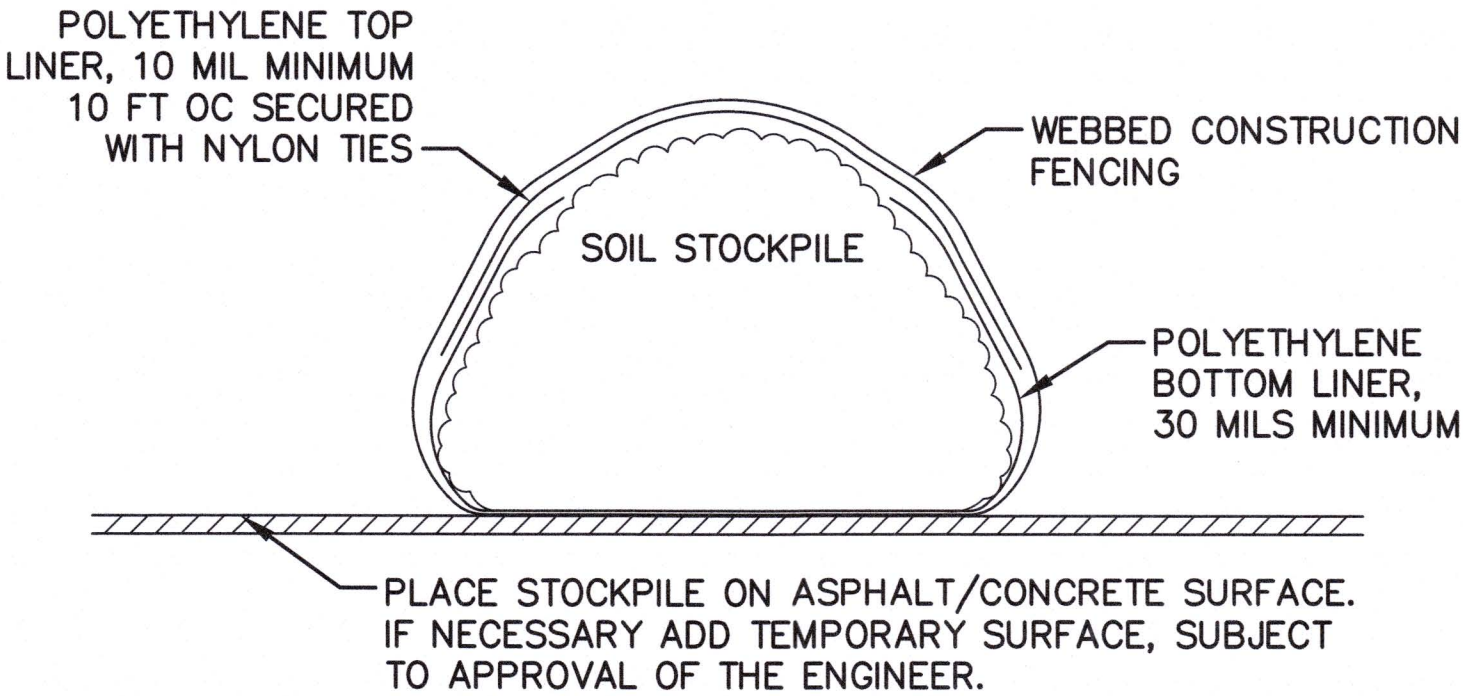
— BMP C220: STORM DRAIN INLET PROTECTION
- D. IF SEDIMENT IS TRANSPORTED ONTO A PAVED SURFACE, THE SURFACE(S) SHALL BE CLEANED IMMEDIATELY USING A METHOD ACCEPTABLE TO THE ENGINEER. IF A SWEEPER IS USED, IT SHALL BE A REGENERATIVE AIR SWEEPER.
- E. THE CONTRACTOR SHALL MAINTAIN, REPLACE, AND UPGRADE 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

G1.03

SHEET 3 OF 16

CONT/CONS: 071552
M. ID: 201038.01
PHASE: BID SET

PIERCE COUNTY TERMINAL
OPERATIONAL PAVEMENT REPAIRS

TESC DETAILS

TOWNSHIP: 20N
RANGE: 3E
SECTION: 3E
DATE: 201038.01
PARCEL: 201038.01

APPROVED: *[Signature]*
T. HOWARD
DIRECTOR ENG. DATE: cgreene Aug 13, 2021
PRINTED BY: cgreene
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

8/13/2021
8/13/2021
8/13/2021
8/13/2021

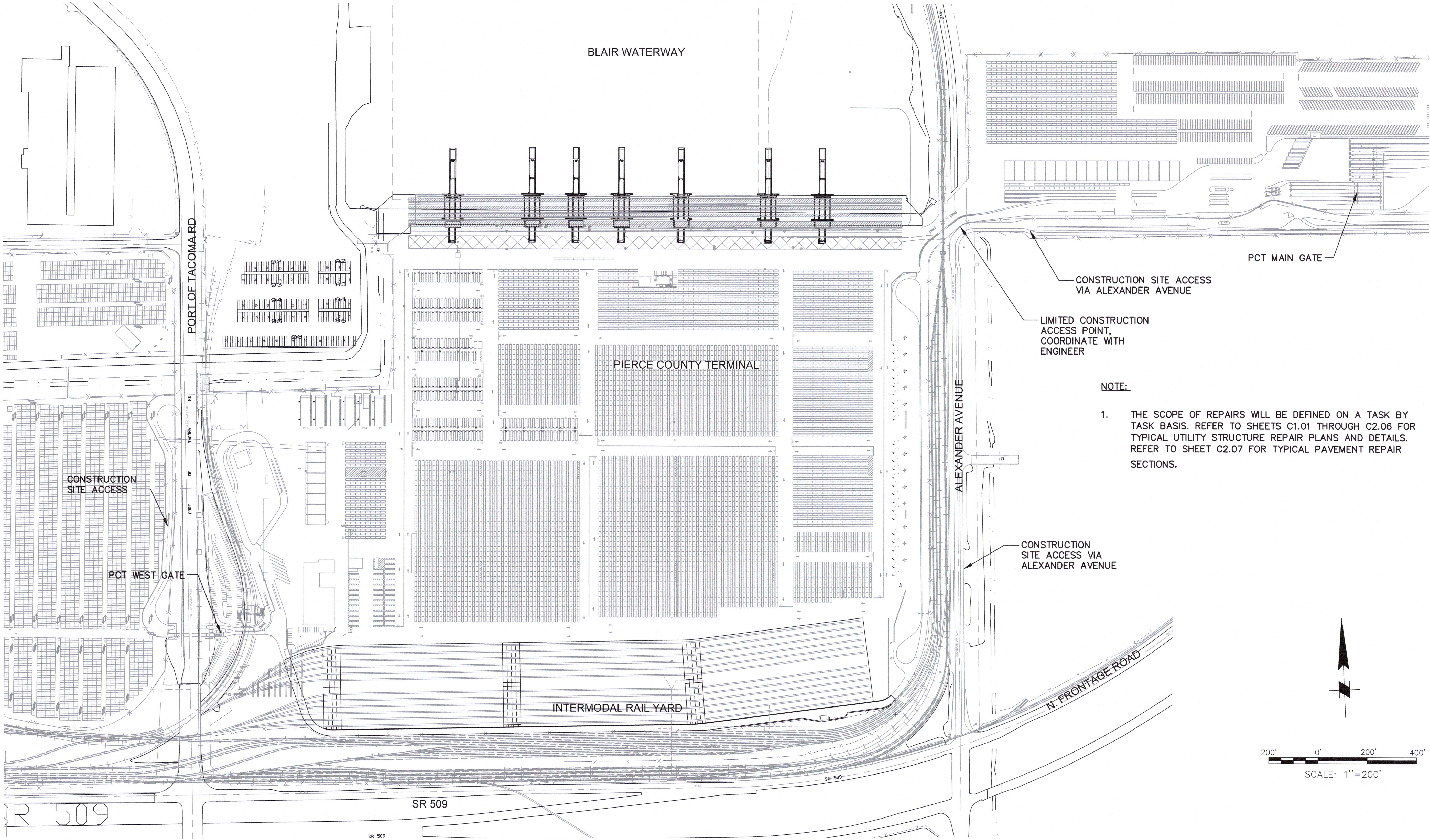
Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253) 863-3444

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

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

STATE OF WASHINGTON
ENGINEER
8/13/2021

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

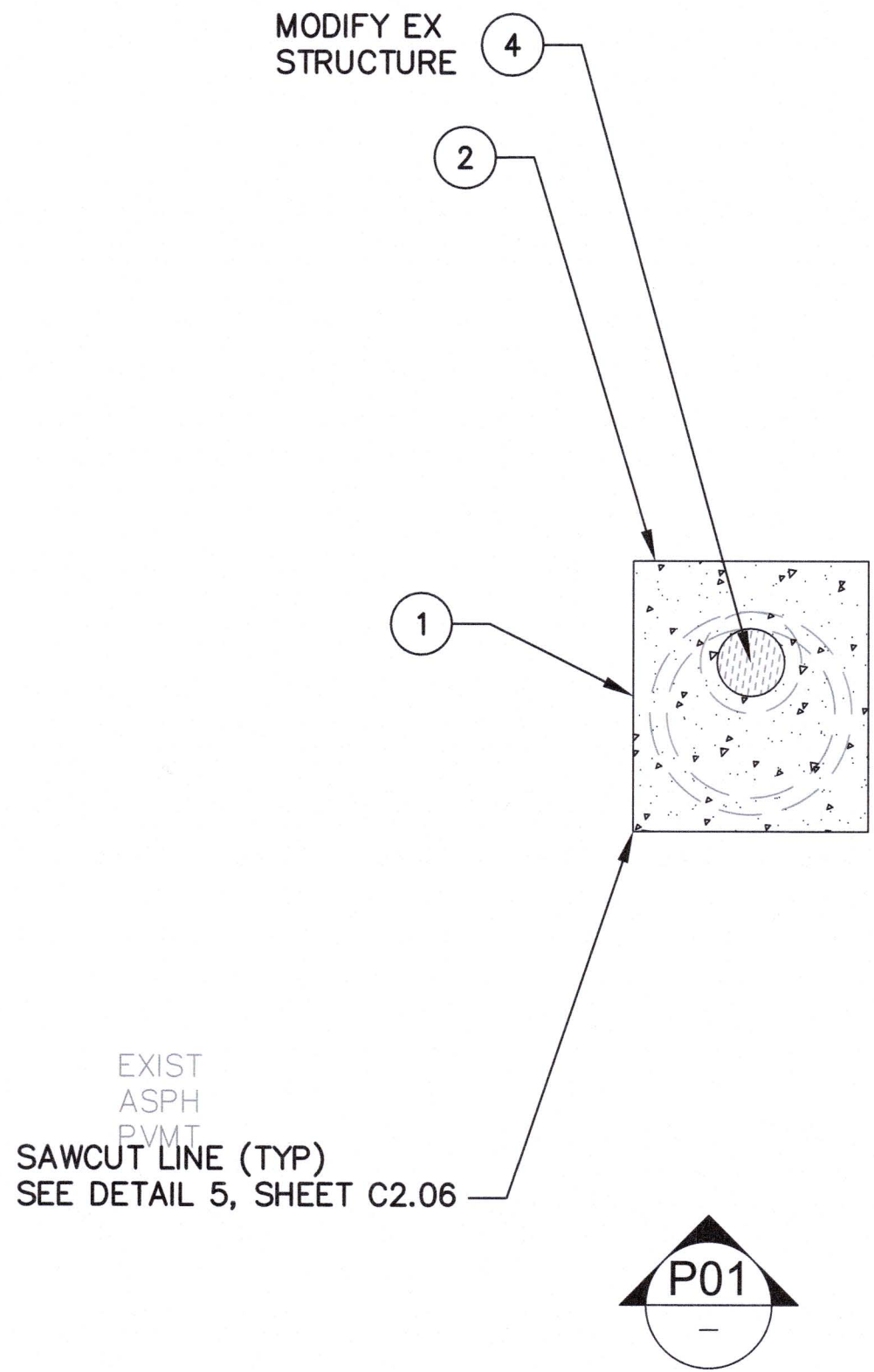


SITE PLAN
SCALE: 1"=200'

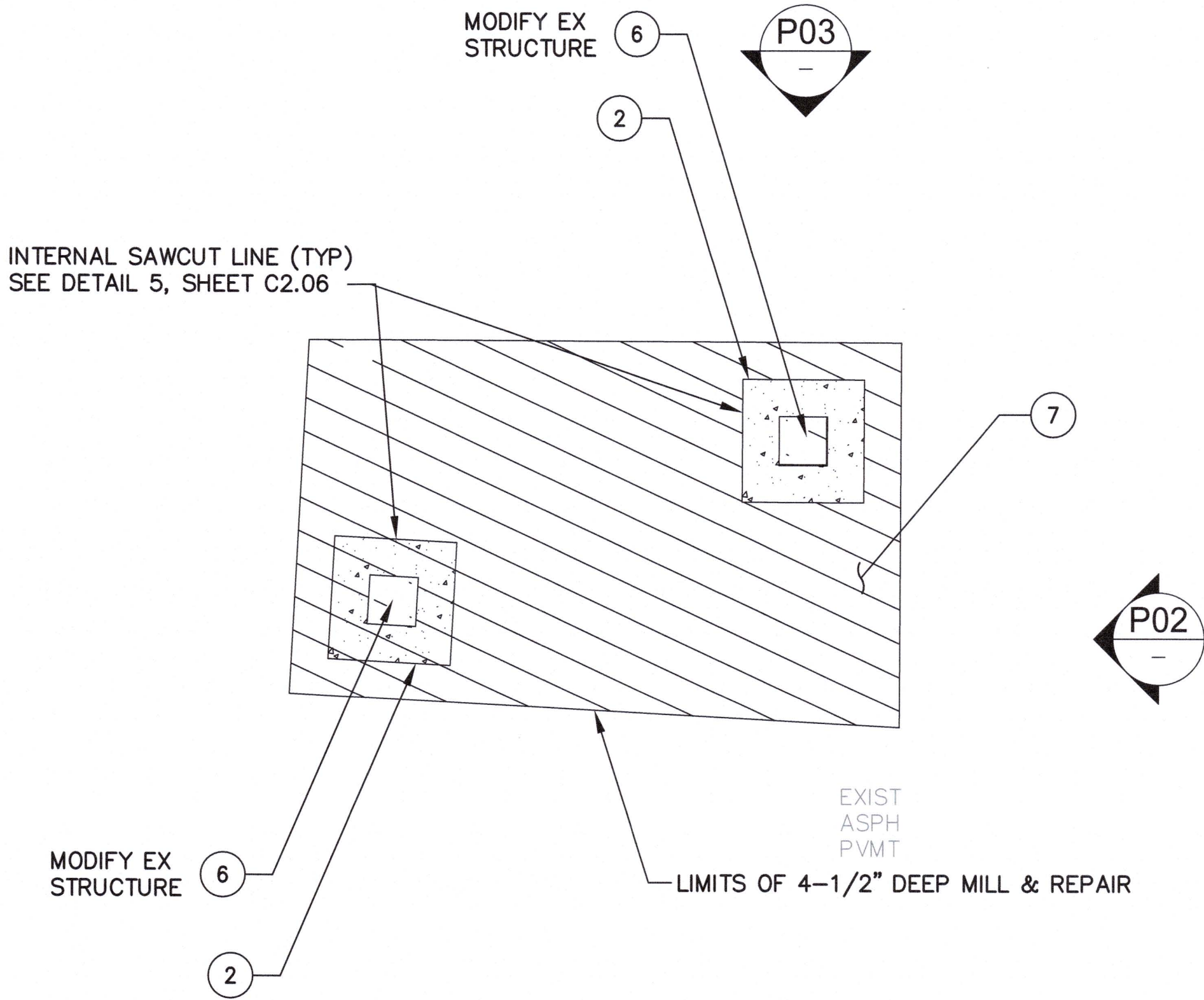
NOTE:

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.

6635 C0.00 SHEET 4 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS SITE PLAN				APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR ENG. DATE: 8/13/2021	A. PATTERSON 8/13/2021 CHECKED BY: S. GRAY DATE: 8/13/2021		 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 622-0222	 P.O. BOX 1837 TACOMA, WA 98401 (206)365-5641
	CONT/CONS: 071552 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N DAT-HRZ:NAD83/2007 PARCEL:	RANGE: 3E SECTION: MLLW	PRINTED BY: cgreene Aug 13, 2021 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837	MARK: REVISION: BY: DATE: APPR: DATE:				



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.



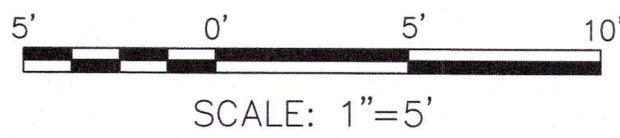
P01 TYPICAL OWS



P02 TYPICAL VALVE BOX



P03 TYPICAL VALVE BOX



6635 C1.01 SHEET 5 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS ENLARGED UTILITIES PLAN 01	APPROVED: <i>[Signature]</i>	A. PATTERSON 8/13/2021
		T. HOWARD DIRECTOR ENG. DATE: 8/13/2021	CHECKED BY: S. GRAY 8/13/2021
CONT/CONS: 071552	TOWNSHIP: 20N	RANGE: 3E	SECTION: 3E
M. ID: 201038.01	DATE: HRZ: NAD83/2007	VERT: MLLW	PRINTED BY: cgreene Aug 13, 2021
PHASE: BID SET	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837

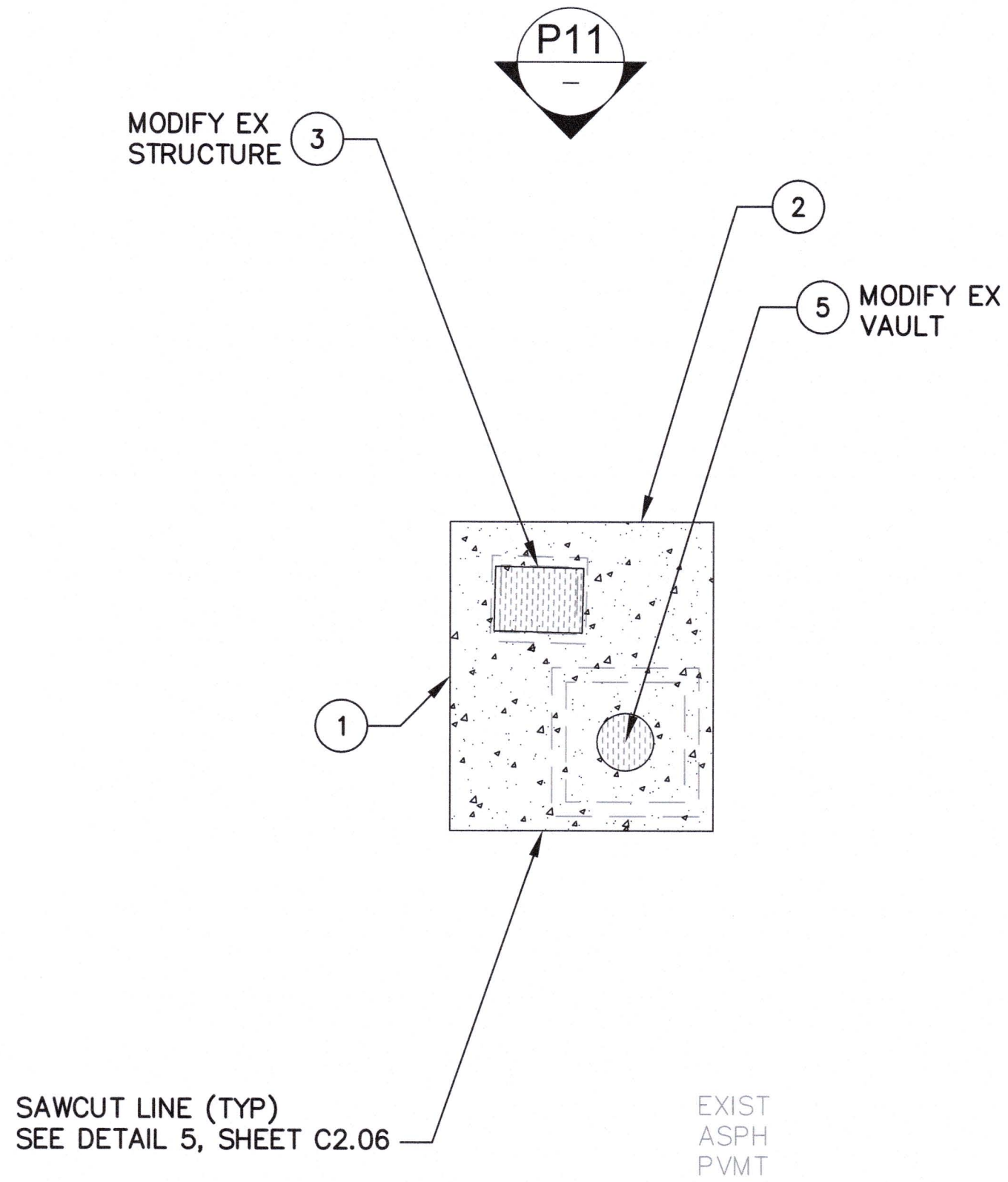
8/13/2021

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

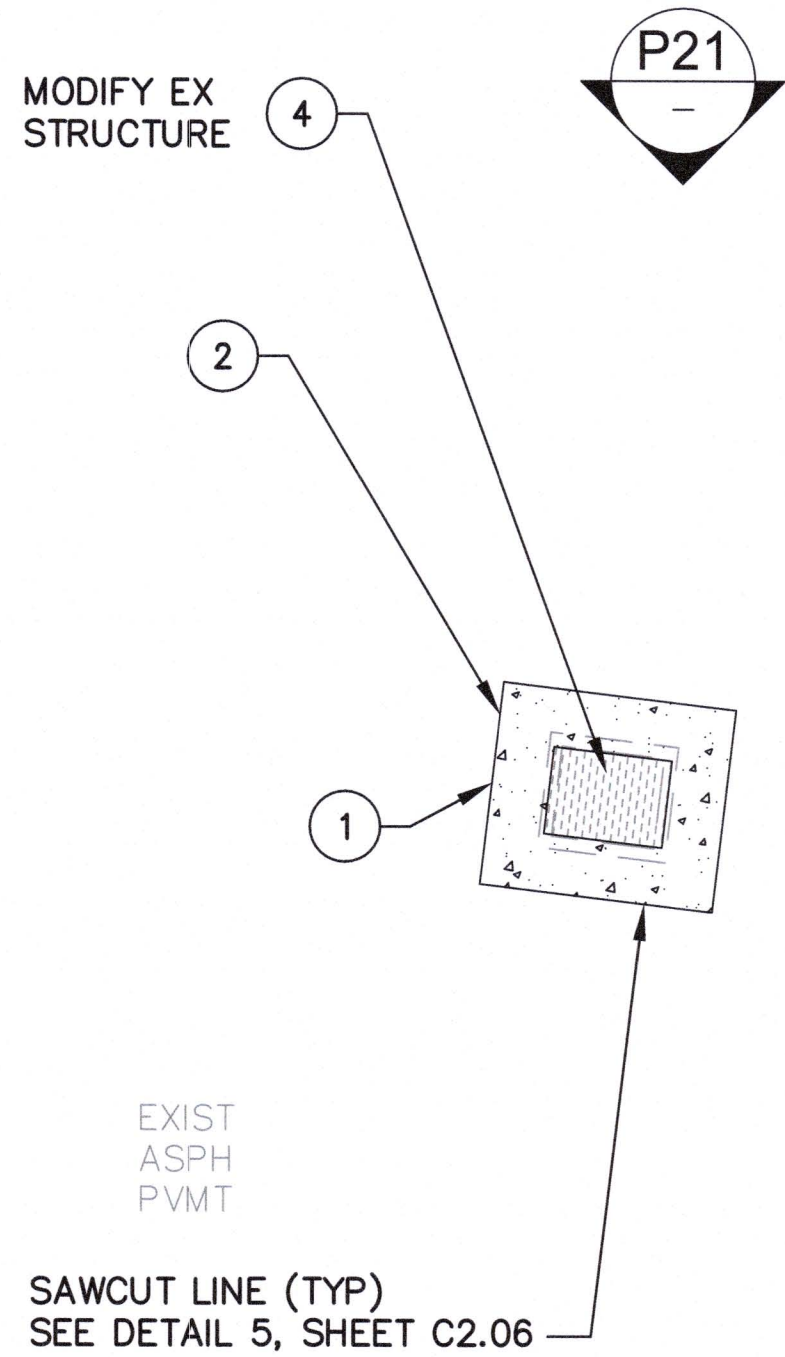
P.O. BOX 4087 TACOMA, WA 98401-0408

MARK:	REVISION:	BY:	DATE:

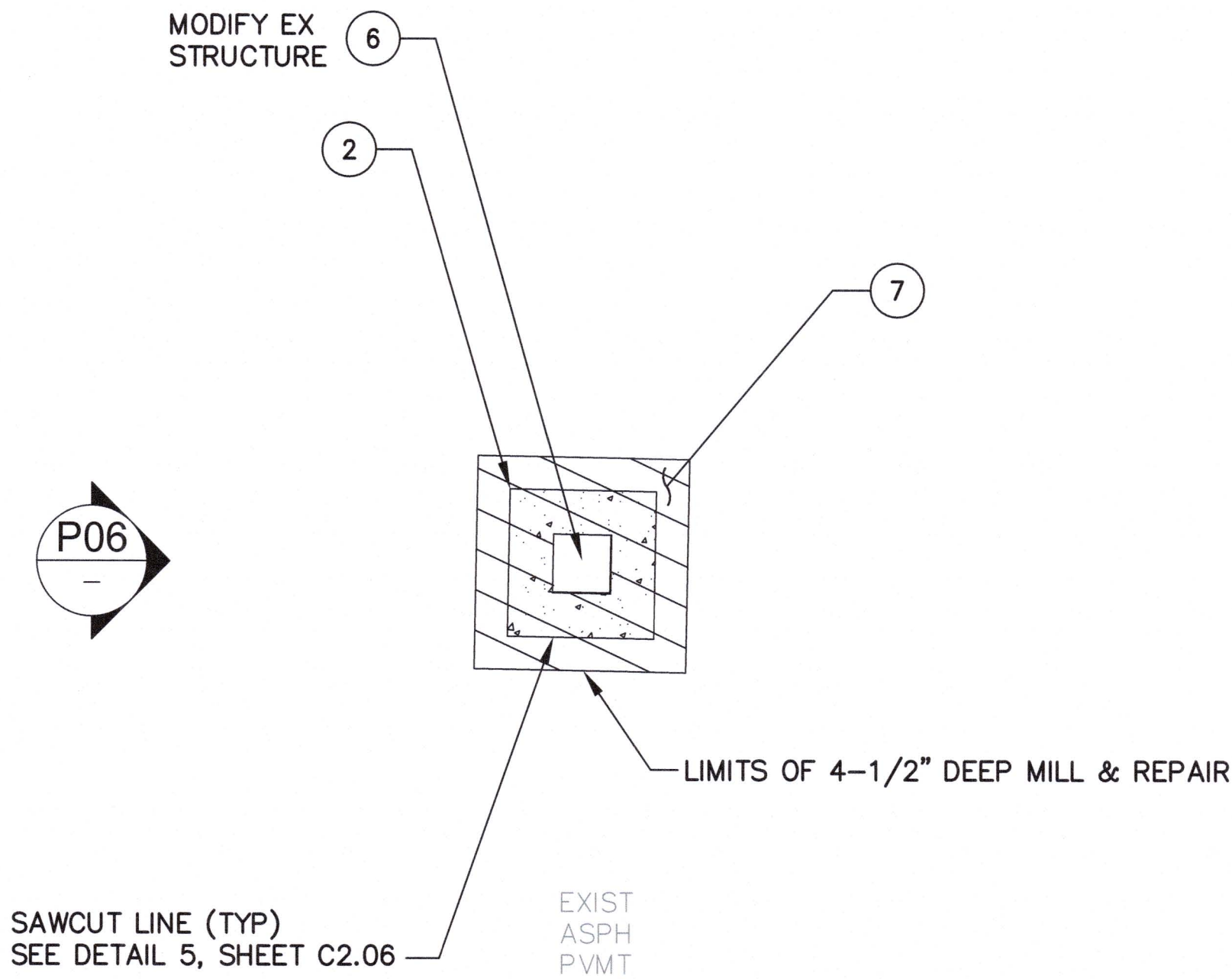
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK, DISCLOSED, COPIED, IN WHOLE OR IN PART, WITHOUT WRITTEN PERMISSION



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.



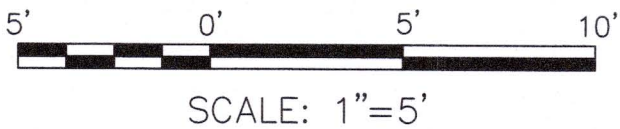
P11 TYPICAL SD & CPV



P21 TYPICAL CB



P06 TYPICAL VALVE BOX



6635 C1.02 SHEET 6 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS ENLARGED UTILITIES PLAN 02				APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR DATE: 8/13/2021		A. PATTERSON 8/13/2021 CHECKED BY: DATE: 8/13/2021		moffatt & nichol 600 UNIVERSITY STREET, SUITE 810 SEATTLE, WA 98101 (206) 622-0222		Port of Tacoma P.O. BOX 1807 TACOMA, WA 98401-1807	
	CONT/CONS: 071552 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N DATE-HRZ: NAD83/2007 PARCEL:	RANGE: 3E VERT: MLLW	SECTION: DRAWING SCALE: AS NOTED	PRINTED BY: cgreene Aug 13, 2021 PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837	MARK: REVISION: BY: DATE:	APPR: DATE:					



P07
—

TYPICAL CPV & CPV



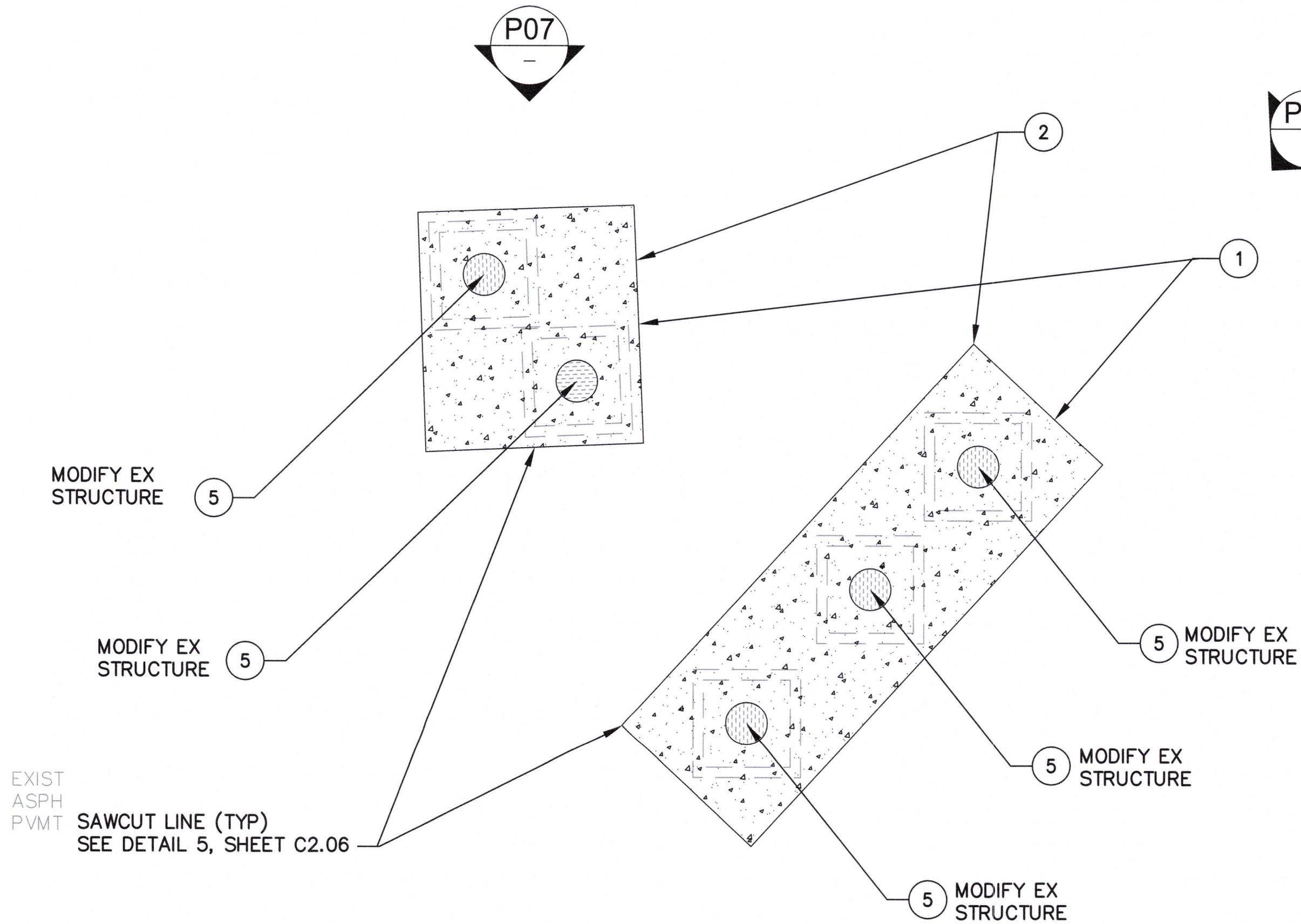
P08
—

TYPICAL PV, PV & SV



P09
—

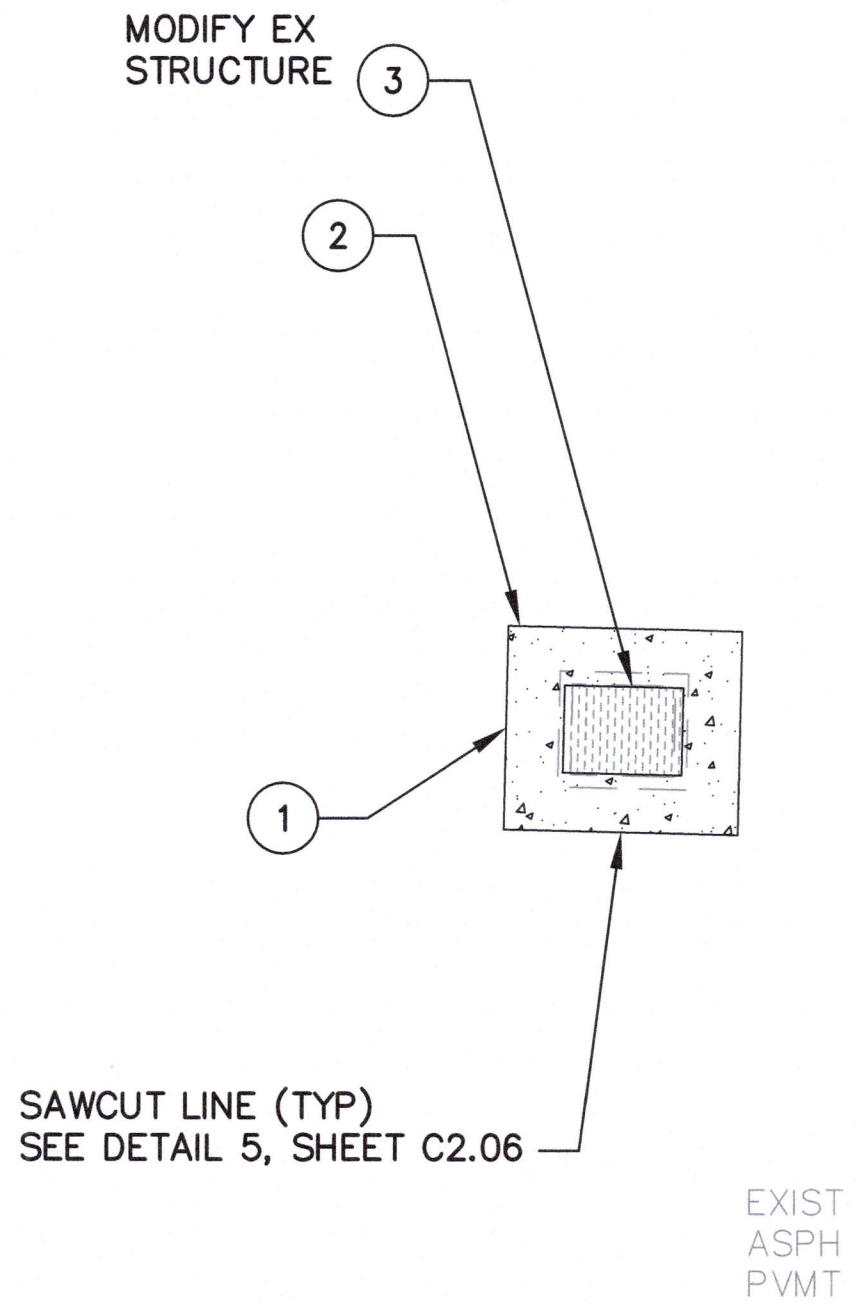
TYPICAL CB



7
—

TYPICAL CPV, CPV, PV, PV & SV (ELEC / COMM VAULTS)

SCALE: 1" = 5'



9
—

TYPICAL CB (TYPE 1L CB)

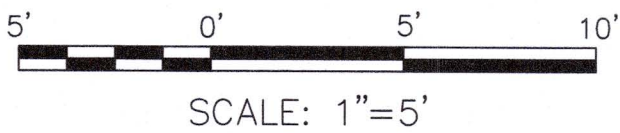
SCALE: 1" = 5'

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:

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

C1.03
SHEET 7 OF 16

CONT/CONS: 071552
M. ID: 201038.01
PHASE: BID SET

PIERCE COUNTY TERMINAL
OPERATIONAL PAVEMENT REPAIRS
ENLARGED UTILITIES PLAN 03

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

APPROVED: *[Signature]*

T. HOWARD
DIRECTOR

ENG. DATE: 8/13/2021

PRINTED BY: cgreene

Aug 13, 2021

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

A. PATTERSON 8/13/2021

CHECKED BY: DATE

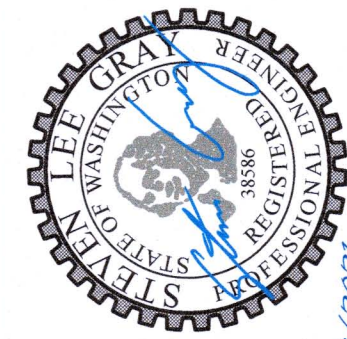
S. GRAY 8/13/2021

PROJ. ENGR DATE

Aug 13, 2021

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837



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

MARK: REVISION: BY: DATE: APPR:

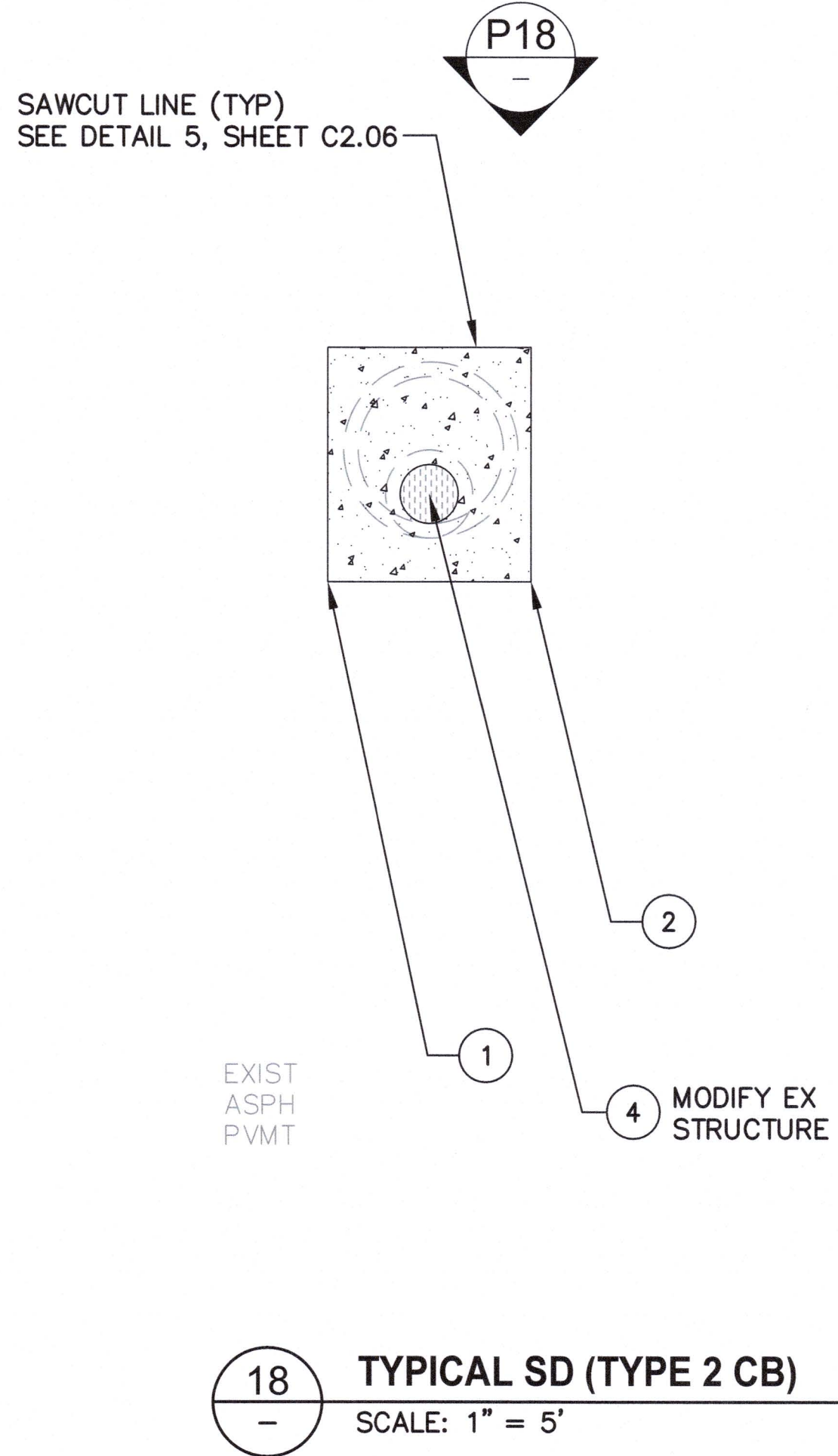
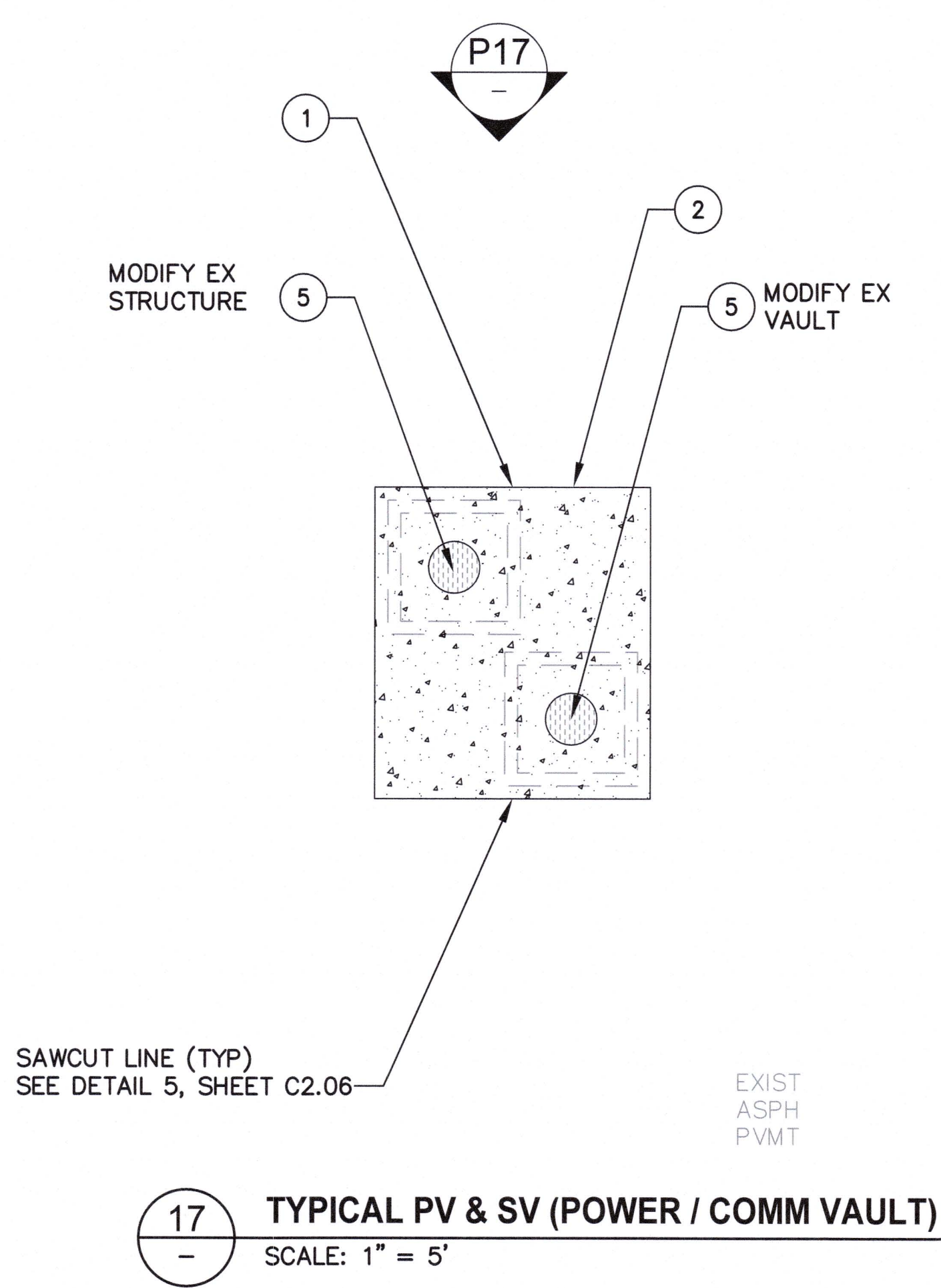
Port of Tacoma
P.O. BOX 1887 TACOMA, WA 98401 (206) 386-5941



P17
—
TYPICAL PV & SV



P18
—
TYPICAL CB

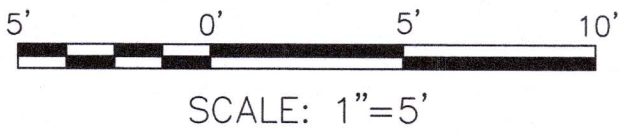


STD CONSTRUCTION NOTES:

- 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.



6635 C1.04 SHEET 8 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS ENLARGED UTILITIES PLAN 04				APPROVED: <i>T. Howard</i> T. HOWARD DIRECTOR DATE: 8/13/2021	A. PATTERSON 8/13/2021 CHECKED BY: S. GRAY DATE: 8/13/2021 PROJ. ENGR: S. GRAY DATE: 8/13/2021 PRINTED BY: cgreene Aug 13, 2021 PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
	CONT./CONS: 071552 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N RANGE: 3E SECTION: MLLW DRAWING SCALE: AS NOTED	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



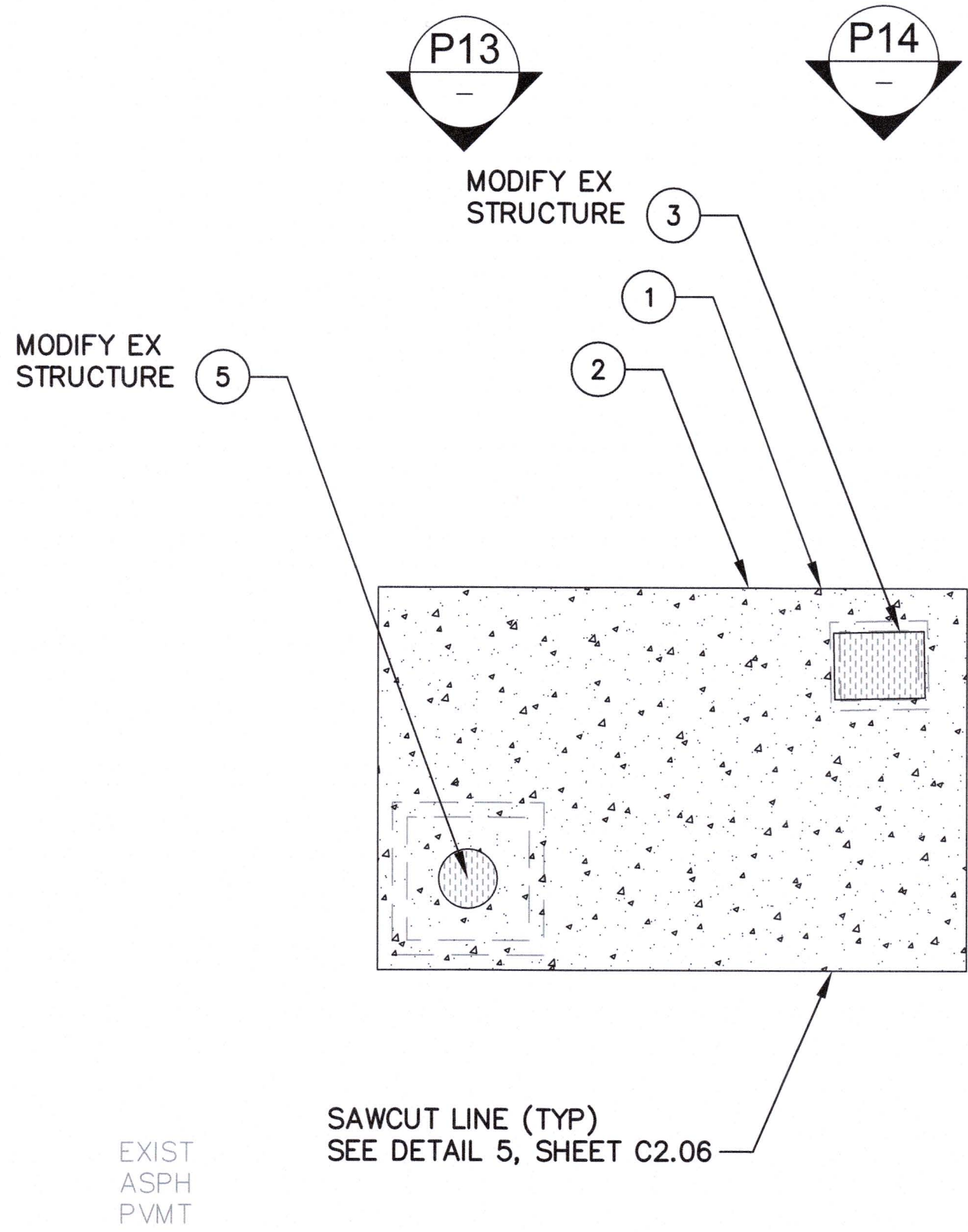
P13
—
CPV



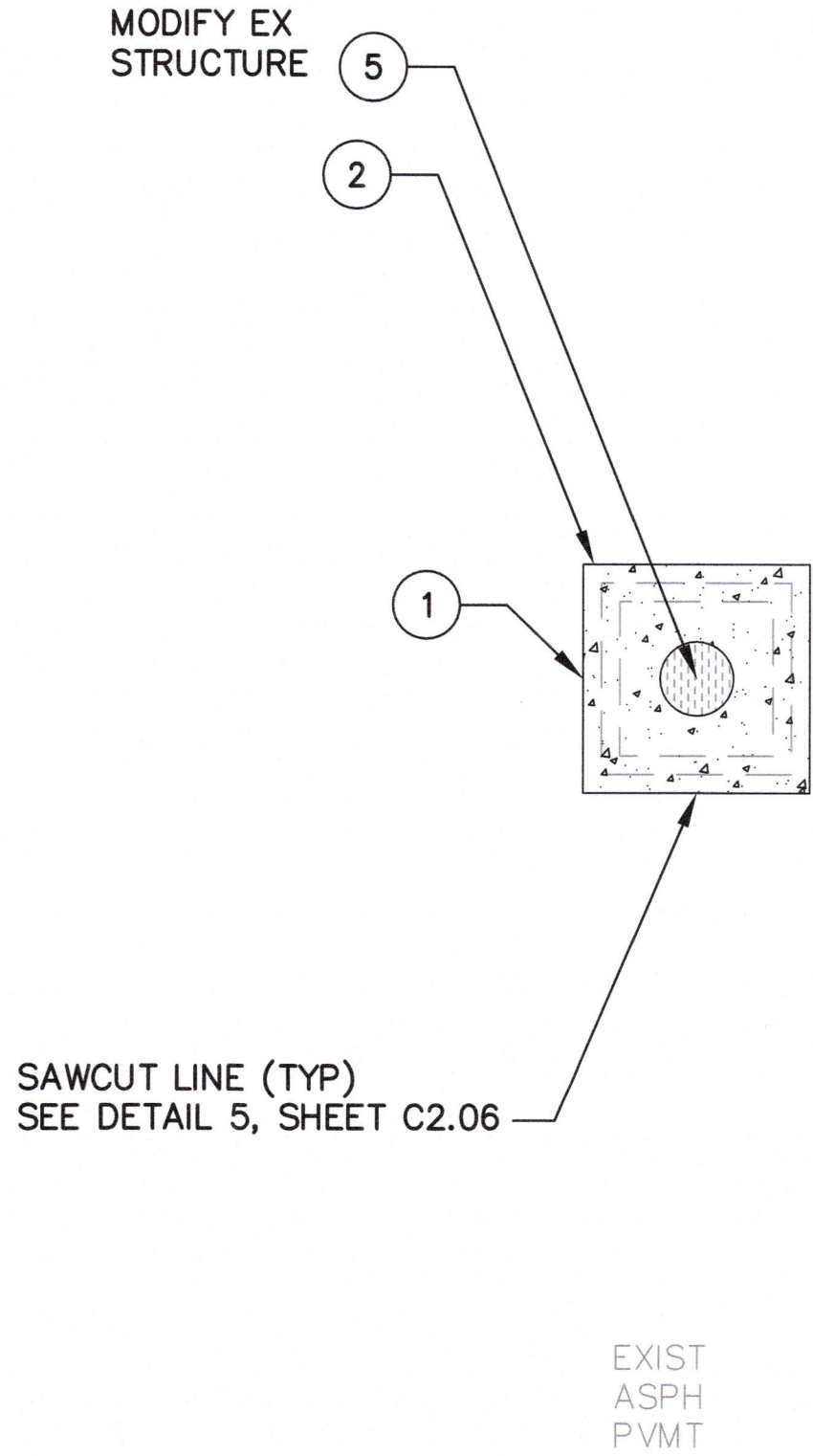
P14
—
TYPICAL CB



P15
—
TYPICAL FOV



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



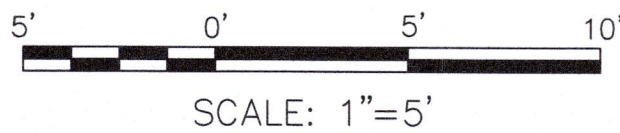
15
—
TYPICAL FOV (POWER VAULT)
SCALE: 1" = 5'

STD CONSTRUCTION NOTES:

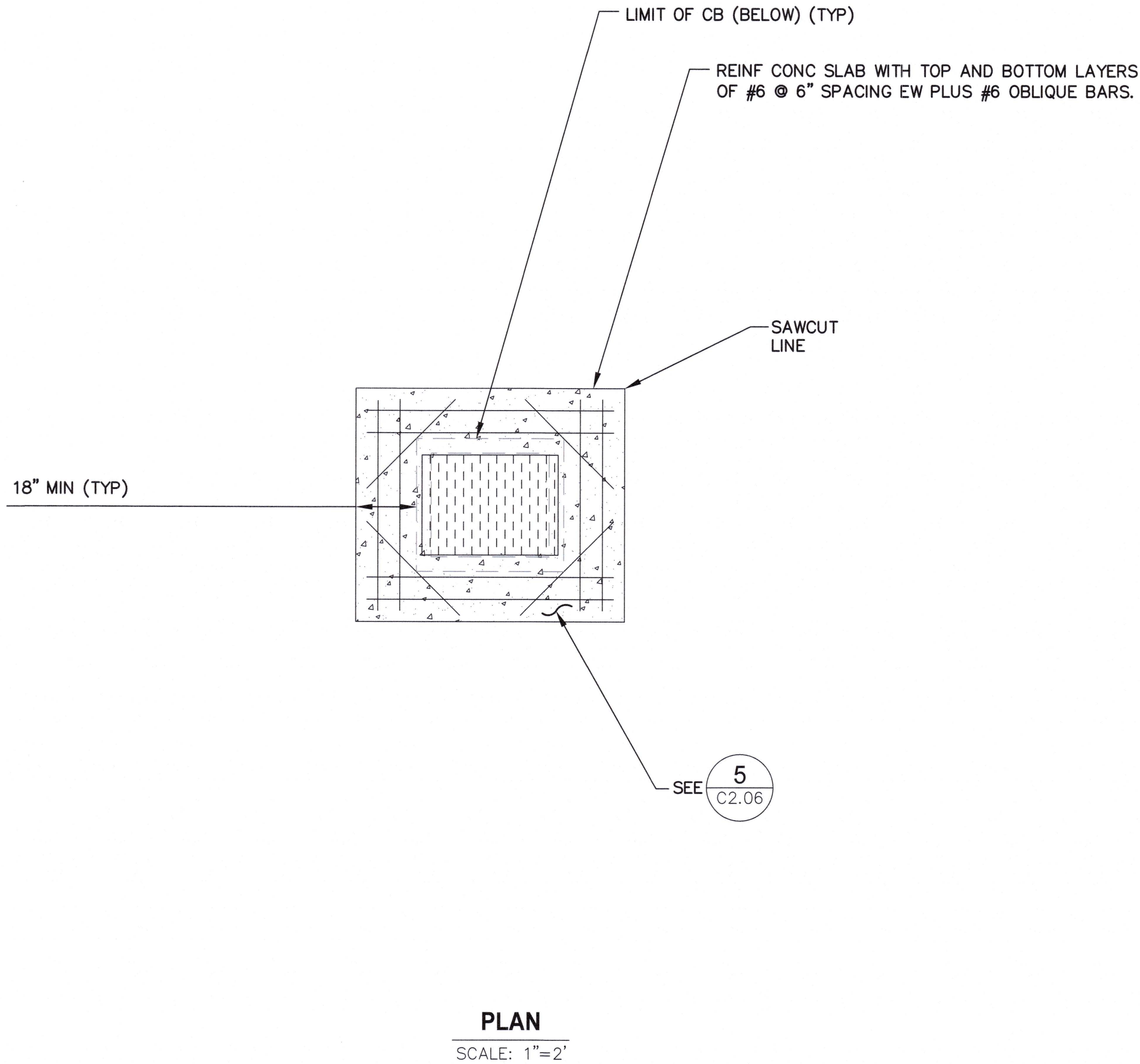
- 1 LIMITS OF ACP REMOVAL.
- 2 LIMITS OF REINF CONC SLAB.
- 3 ADJUST TYPE 1L CB AND RESTORE SURFACING, SEE DETAIL 1, SHEET C2.01.
- 4 ADJUST TYPE 2 CB AND RESTORE SURFACING, SEE DETAIL 2, SHEET C2.02.
- 5 ADJUST VAULT AND RESTORE SURFACING, SEE DETAIL 3, SHEET C2.03.
- 6 ADJUST WATER VALVE BOX AND RESTORE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

NOTES:

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.

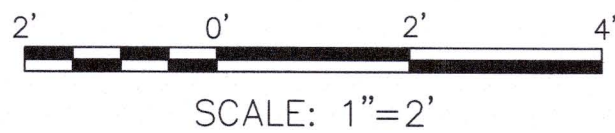
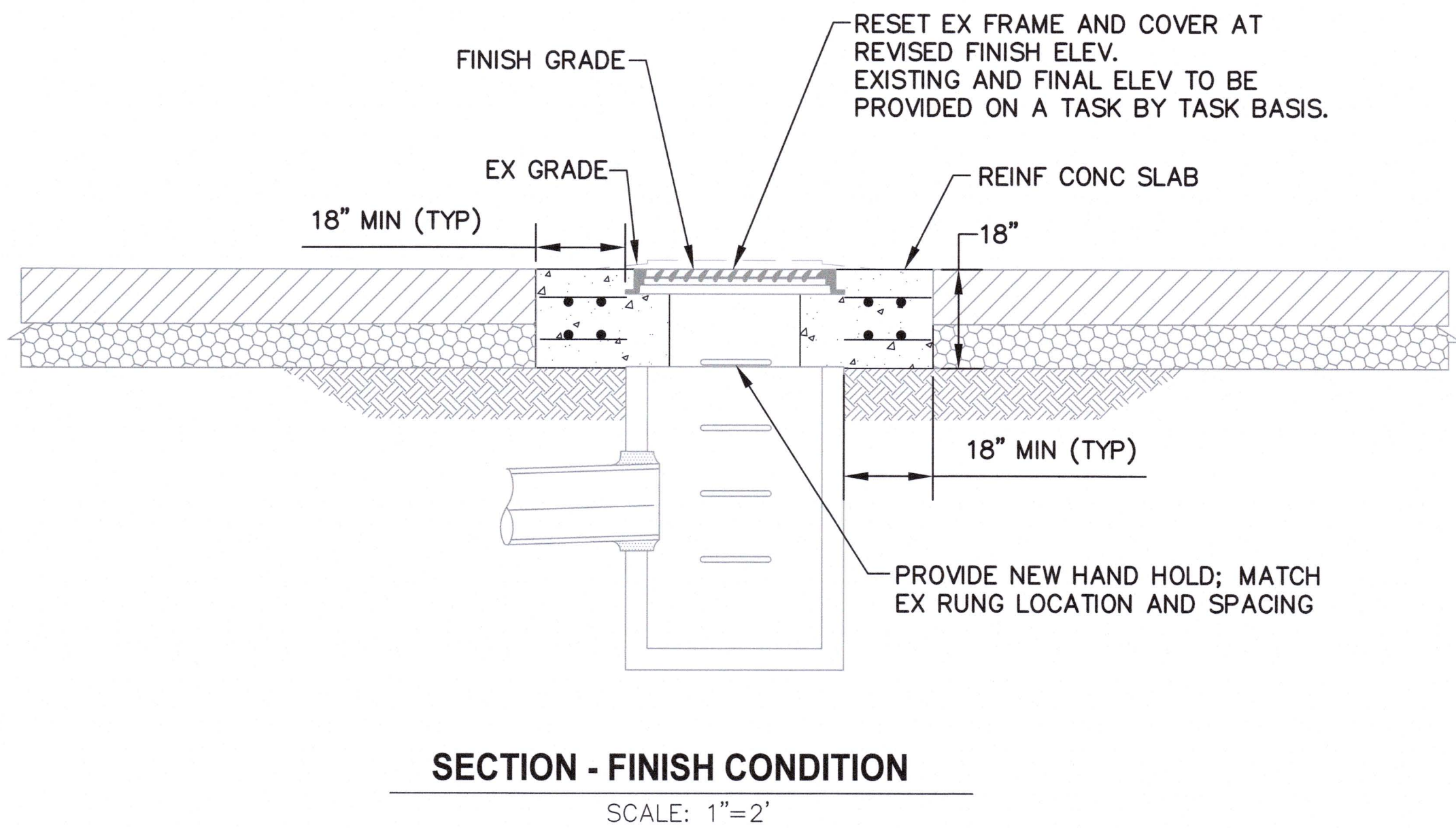
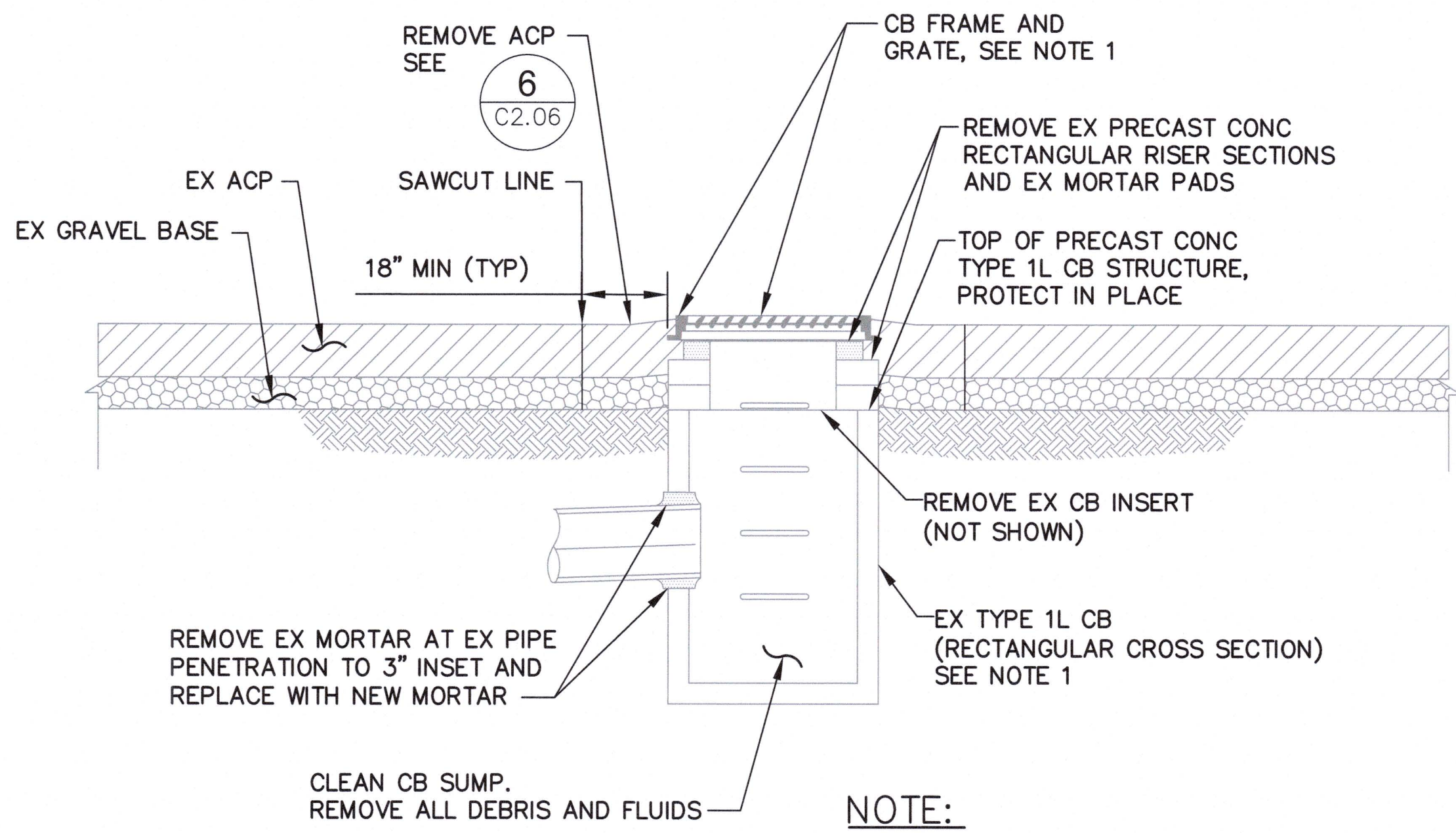


6635 C1.05 SHEET 9 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS ENLARGED UTILITIES PLAN 05				APPROVED:  T. HOWARD DIRECTOR DATE: 8/13/2021		A. PATTERSON 8/13/2021 CHECKED BY: S. GRAY DATE: 8/13/2021			 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 622-0222	 P.O. BOX 1887 TACOMA, WA 98401-1887
	CONTRACT/CONS: 071552 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N DATE: HRZ: NAD83/2007 PARCEL: BID SET	RANGE: 3E SECTION: MLLW	PRINTED BY: cgreene PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837	DATE: 8/13/2021	REVISION: 1	BY: 1	APPR: 1			



1
VARIES

TYPICAL REHABILITATION OF TYPE 1L CB

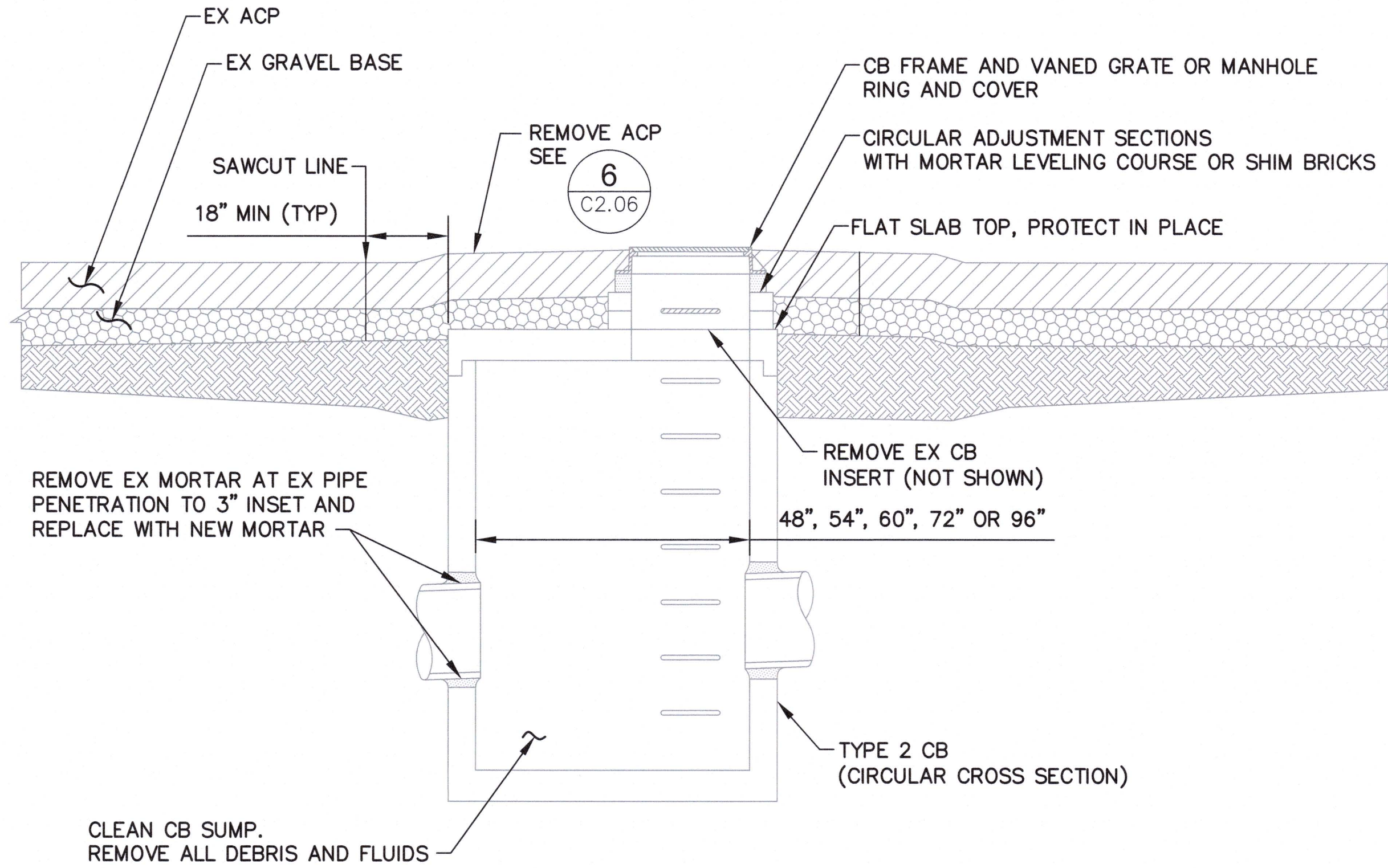
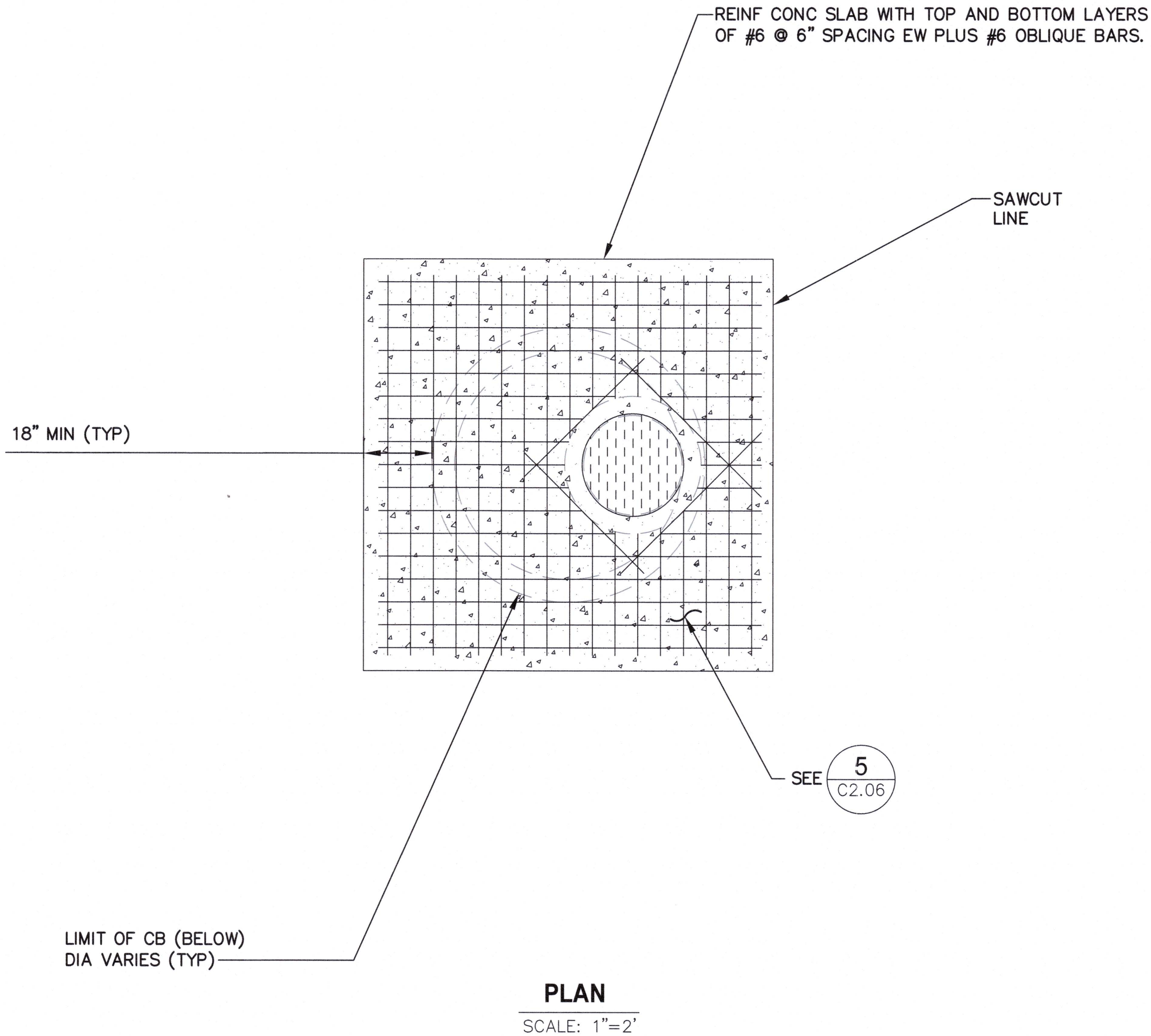


6635 C2.01 SHEET 10 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS SITE DETAILS 01	APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR	A. PATTERSON 8/13/2021	8/13/2021
			CHECKED BY DATE	DATE
CONTR/CONS: 071552	TOWNSHIP: 20N	RANGE: 3E	SECTION: MLLW	DATE: 8/13/2021
M. ID: 201038.01	DAT-HRZ: NAD83/2007	VERT: MLLW	PRINTED BY: cgreene	Aug 13, 2021
PHASE: BID SET	PARCEL:	DRAWING SCALE: AS NOTED	PORT ADDRESS: ONE SITCUM PLAZA	TACOMA, WA 98401-1837

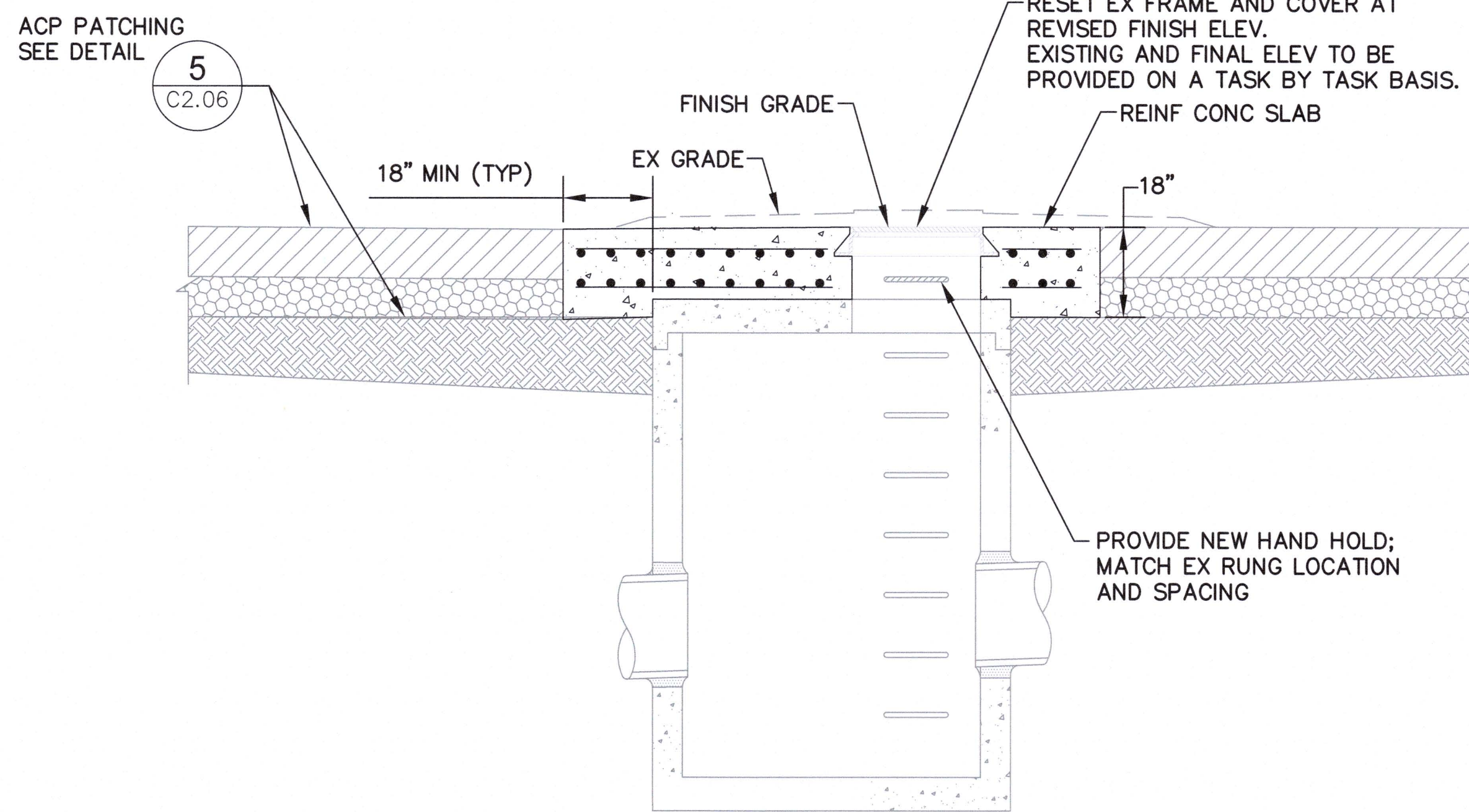
moffatt & nichol
600 UNIVERSITY STREET, SUITE 610
SEATTLE, WA 98101
(206) 462-0222

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (206) 385-5941

MARK:	REVISION:	BY:	DATE:

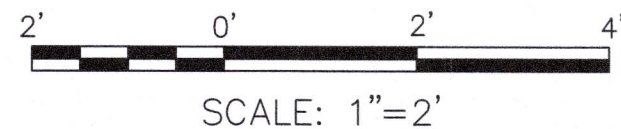


SECTION - EXISTING CONDITION
SCALE: 1"=2'



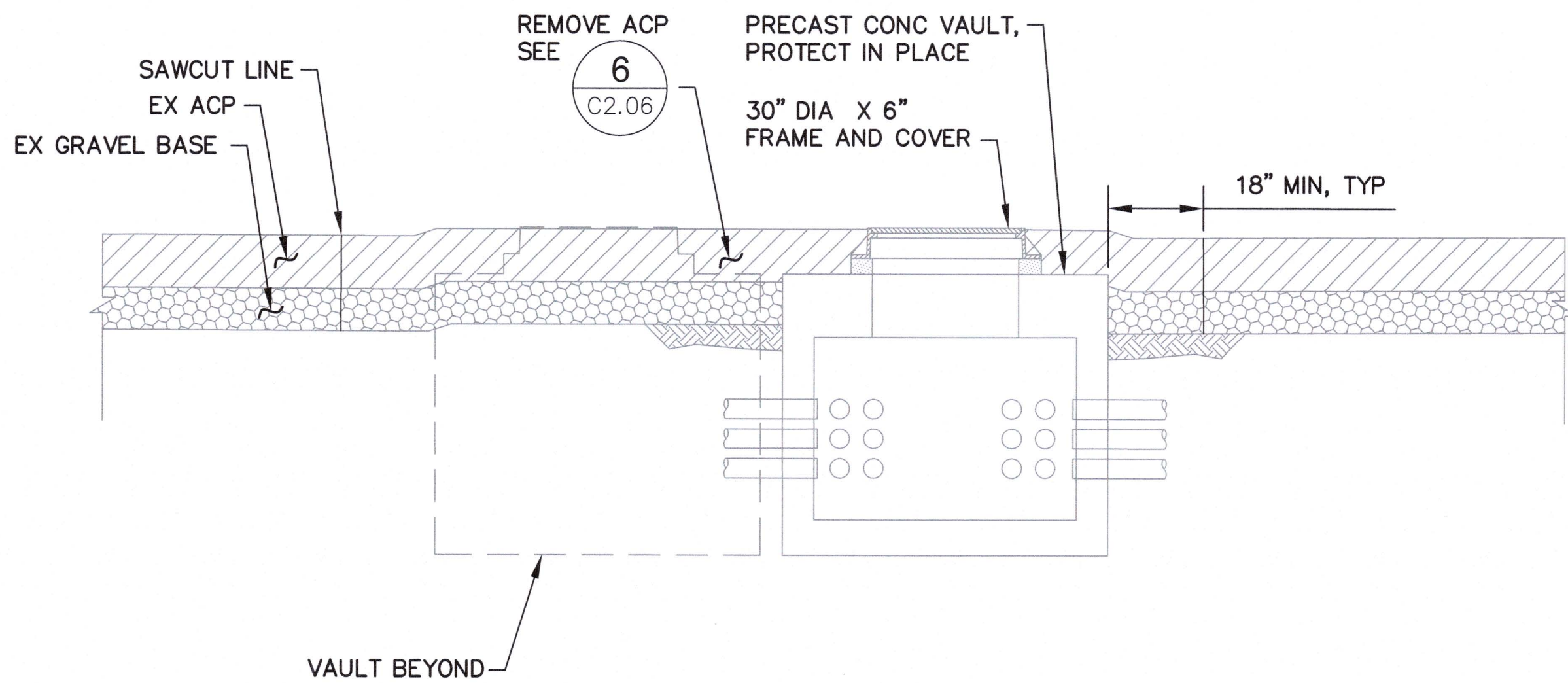
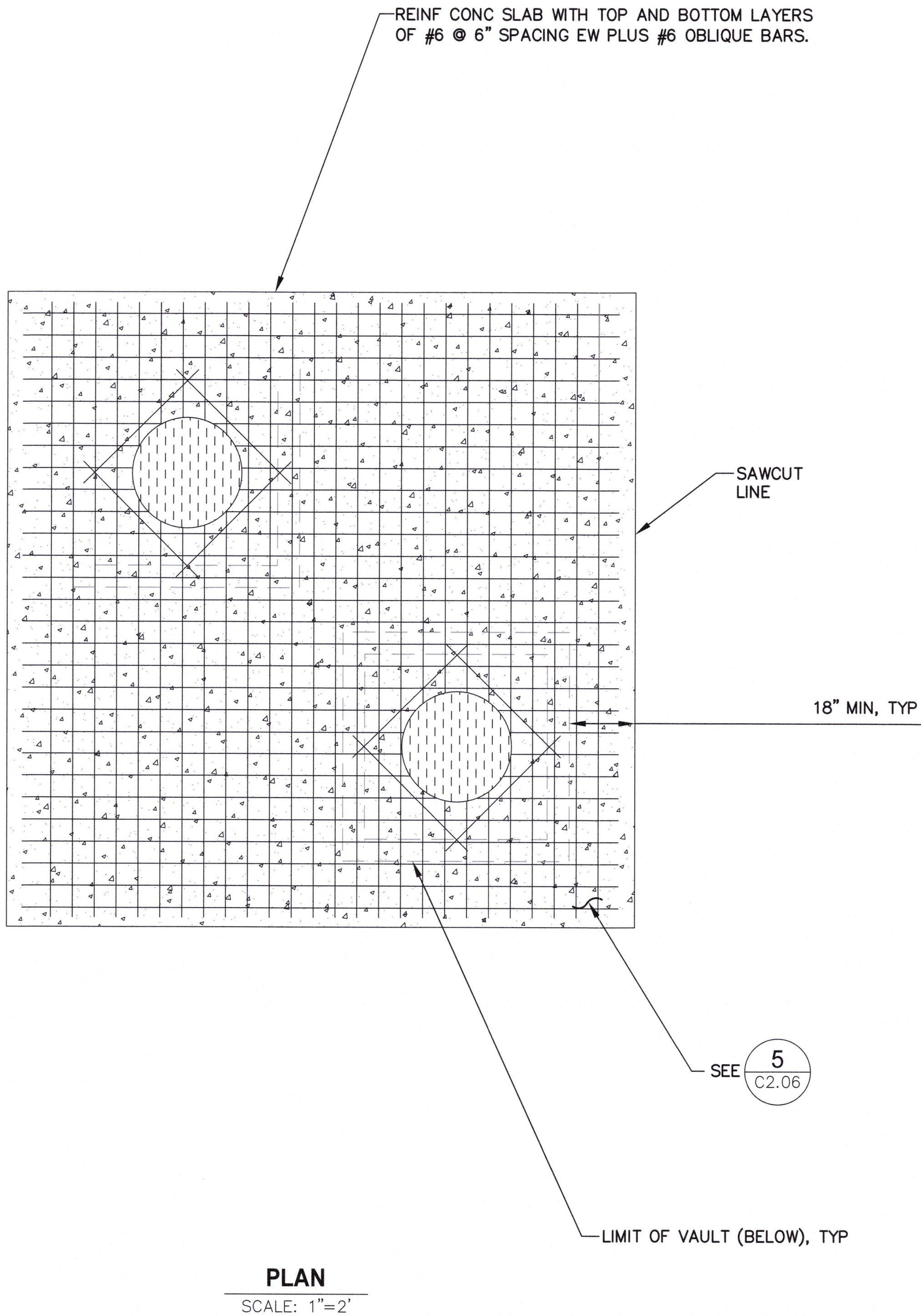
SECTION - FINISH CONDITION
SCALE: 1"=2'

2 TYPICAL REHABILITATION OF TYPE 2 CB
VARIES



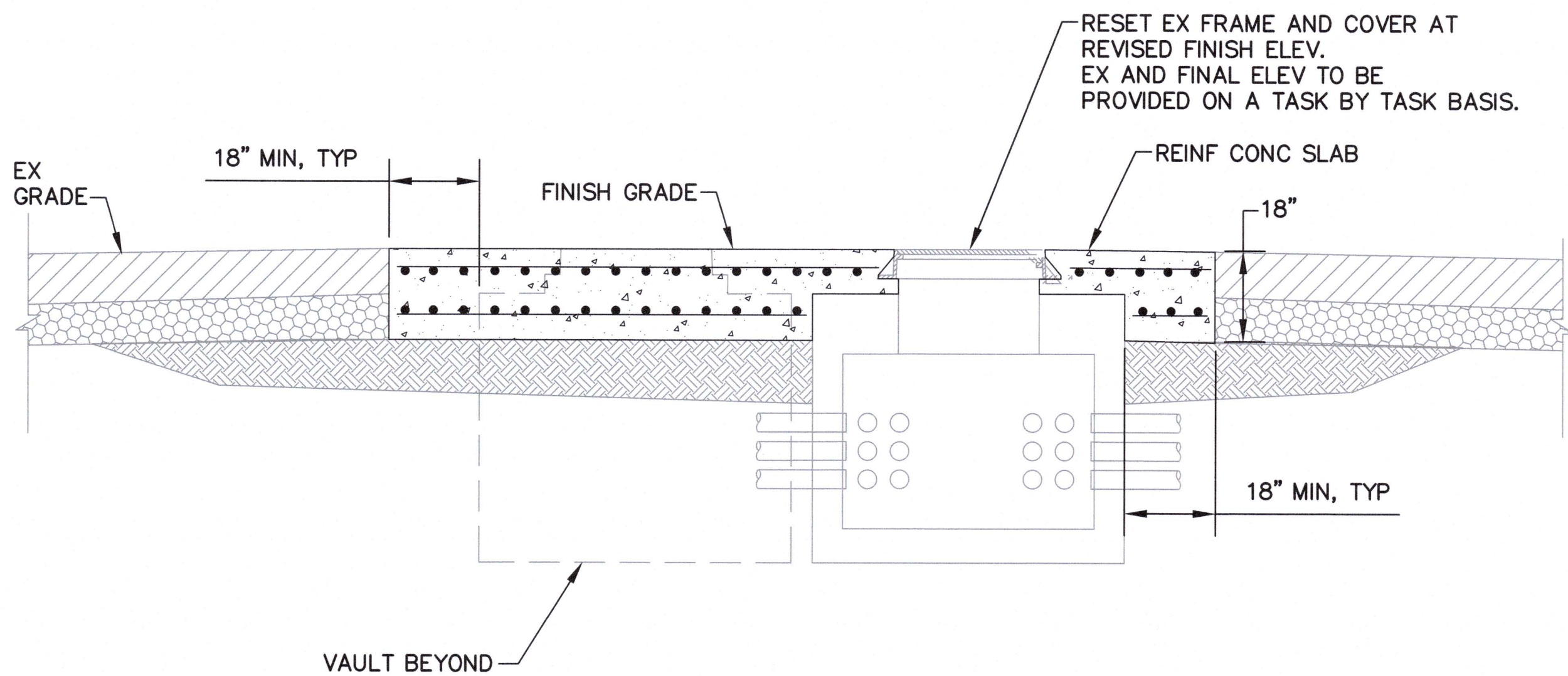
6635 C2.02 SHEET 11 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS SITE DETAILS 02				Port of Tacoma P.O. BOX 1837 TACOMA, WA 98401 (206) 835-5541
	CONTR/CONS: 071552 M. ID: 201038.01 PHASE: BID SET	TOWNSHIP: 20N DAT-HRZ: NAD83/2007 PARCEL:	RANGE: 3E VERT: MLLW	SECTION: AS NOTED	
APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR PRINTED BY: cgreene PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837		CHECKED BY: S. GRAY PROJ. ENGR DATE: 8/13/2021		DATE: 8/13/2021	 8/13/2021
A. PATTERSON 8/13/2021		BY: []		REVISION: []	

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'

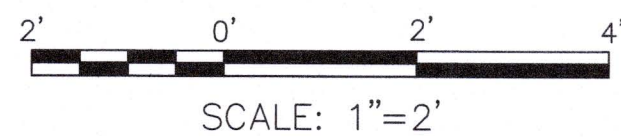


SECTION - FINISH CONDITION

SCALE: 1"=2'

3
VARIES

TYPICAL REHABILITATION OF VAULT



6635
C2.03
SHEET 12 OF 16

CONT/CONS: 071552
M. ID: 201038.01
PHASE: BID SET

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

TOWNSHIP: 20N
RANGE: 3E
SECTION: 3E
DATE: 201038.01
PARCEL: 201038.01

APPROVED:

T. Howard
T. HOWARD

DIRECTOR ENG. DATE: 8/13/2021

PRINTED BY: cgreene

PORT ADDRESS: ONE SITCOM PLAZA

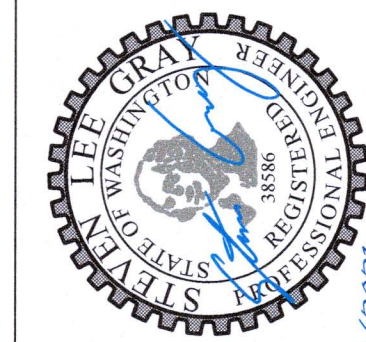
A. PATTERSON 8/13/2021

CHECKED BY DATE

S. GRAY 8/13/2021

PROJ. ENGR DATE

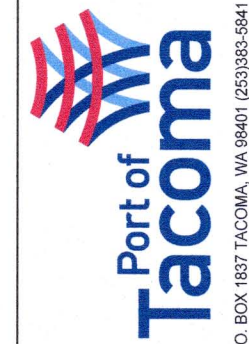
Aug 13, 2021



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

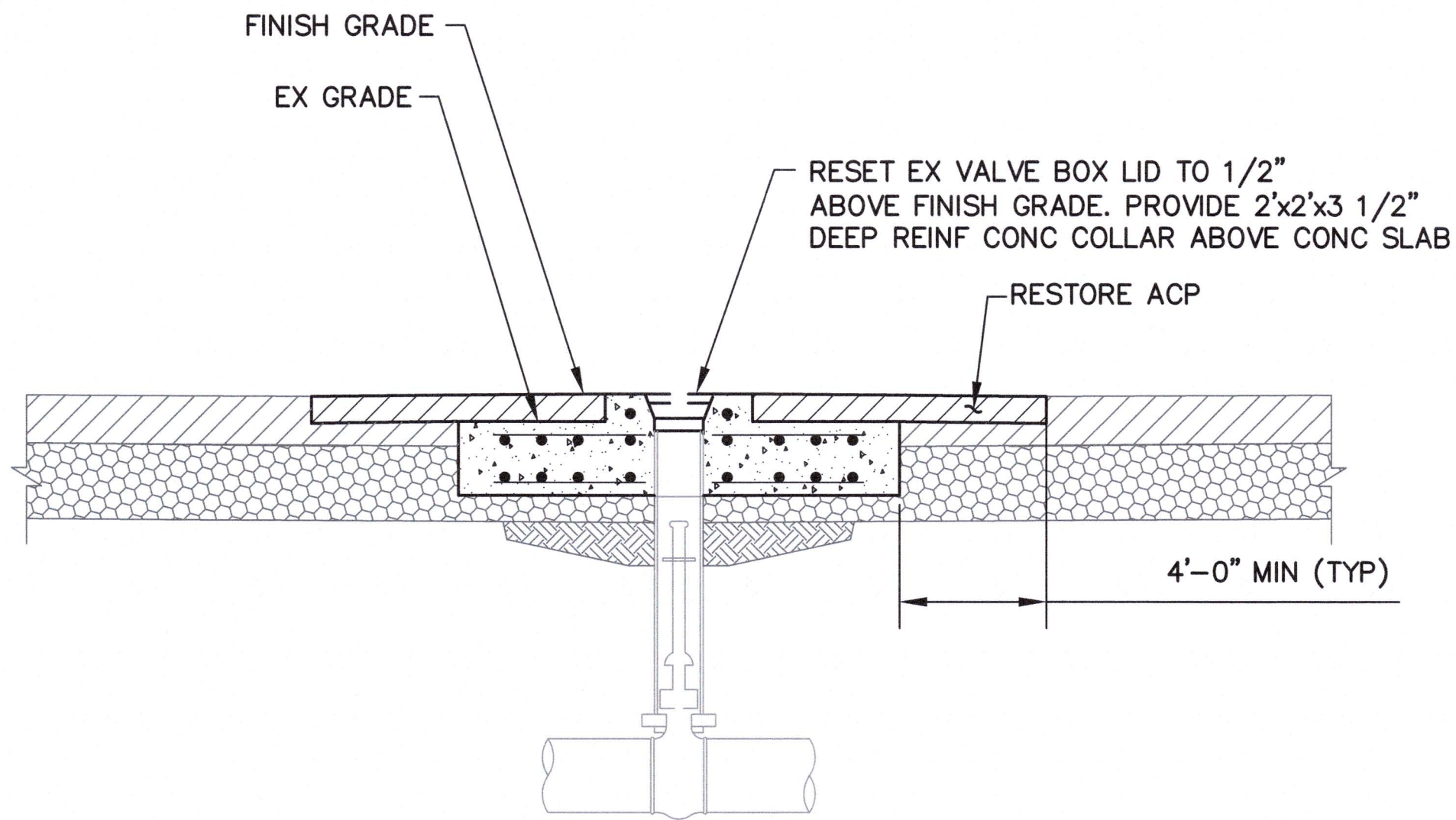
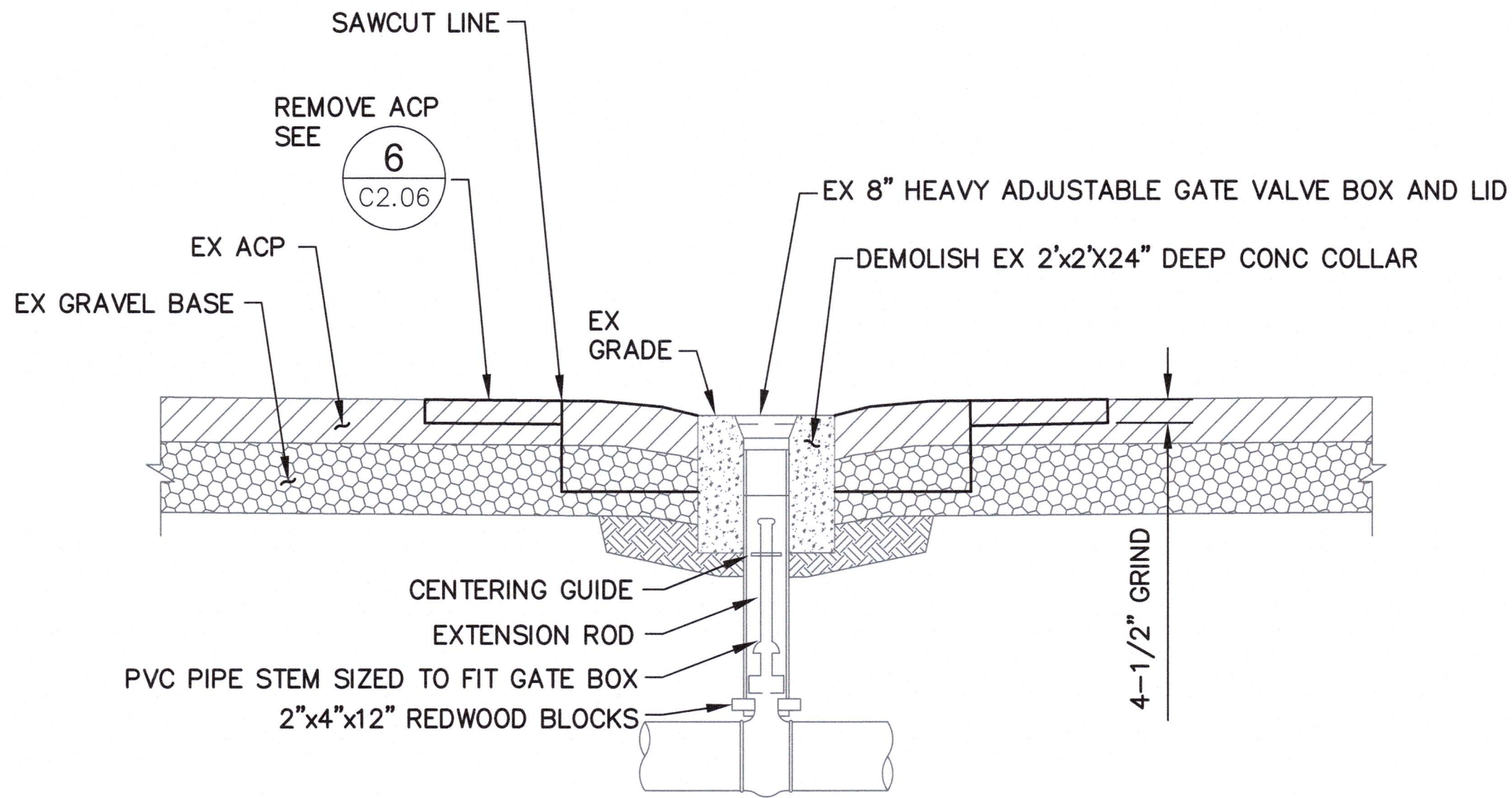
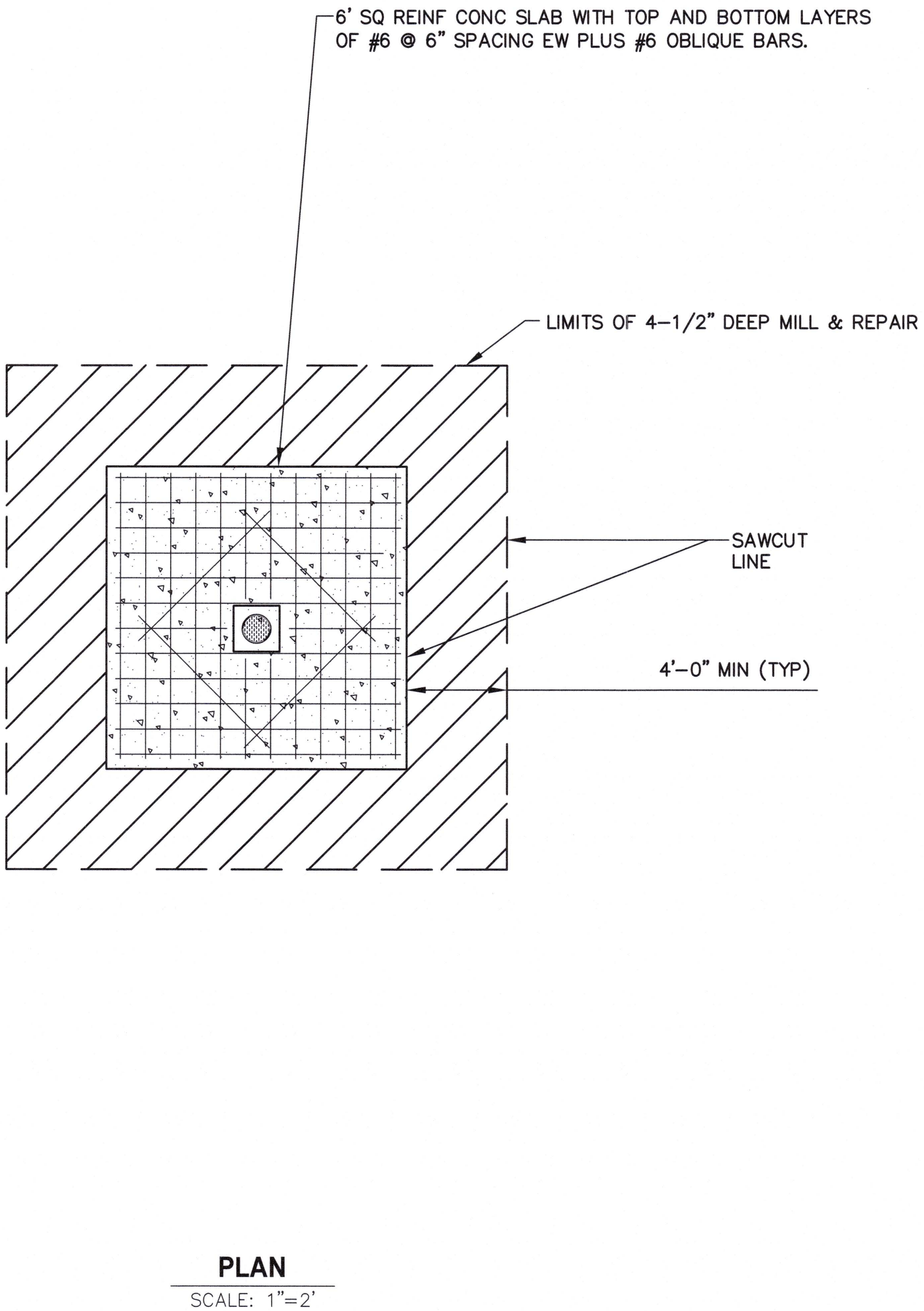
MARK: REVISION: BY: DATE:

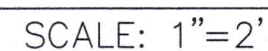
APPR: DATE:



P.O. BOX 1887 TACOMA, WA 98401-0187

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





SCALE: 1"=2'



SCALE: 1"=2'

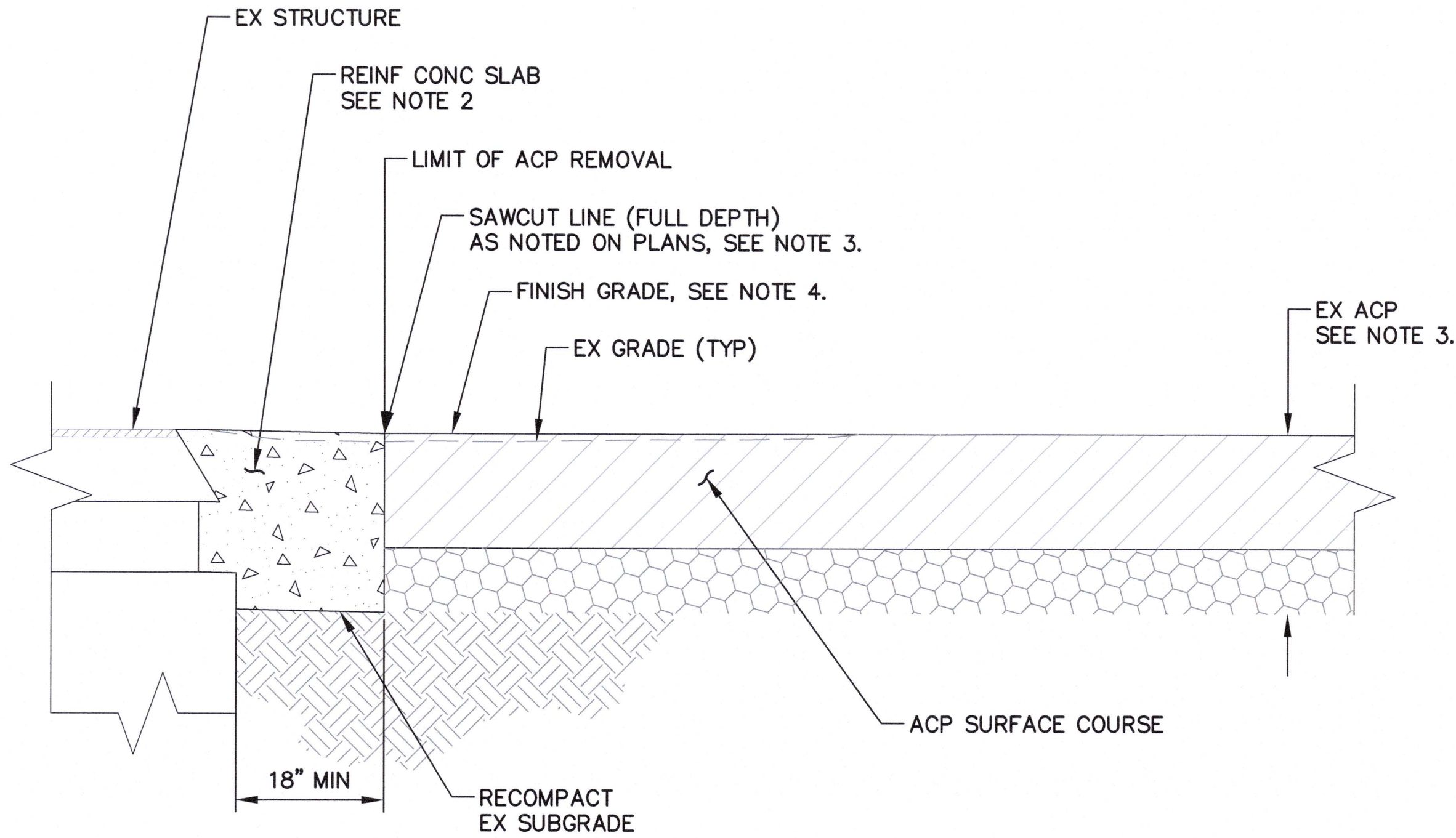
2' 0' 2'

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.

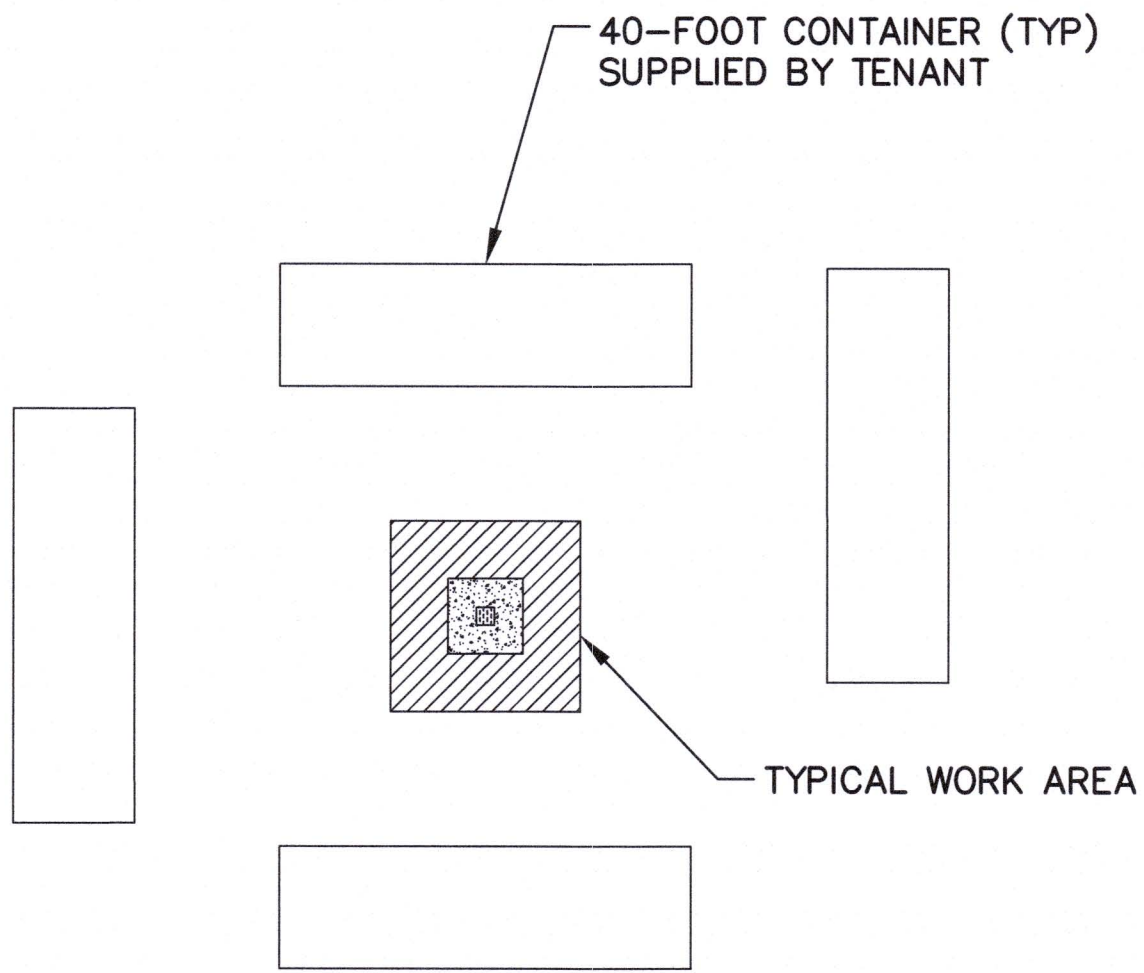
MODEL:	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1037	27-2871-1037
THIS DRAWING IS THE PROPERTY OF THE PORT OF TACOMA AND SHALL NOT BE USED ON OTHER WORK DISCLOSED COPIED IN WHOLE OR IN PART WITHOUT WRITTEN PERMISSION			



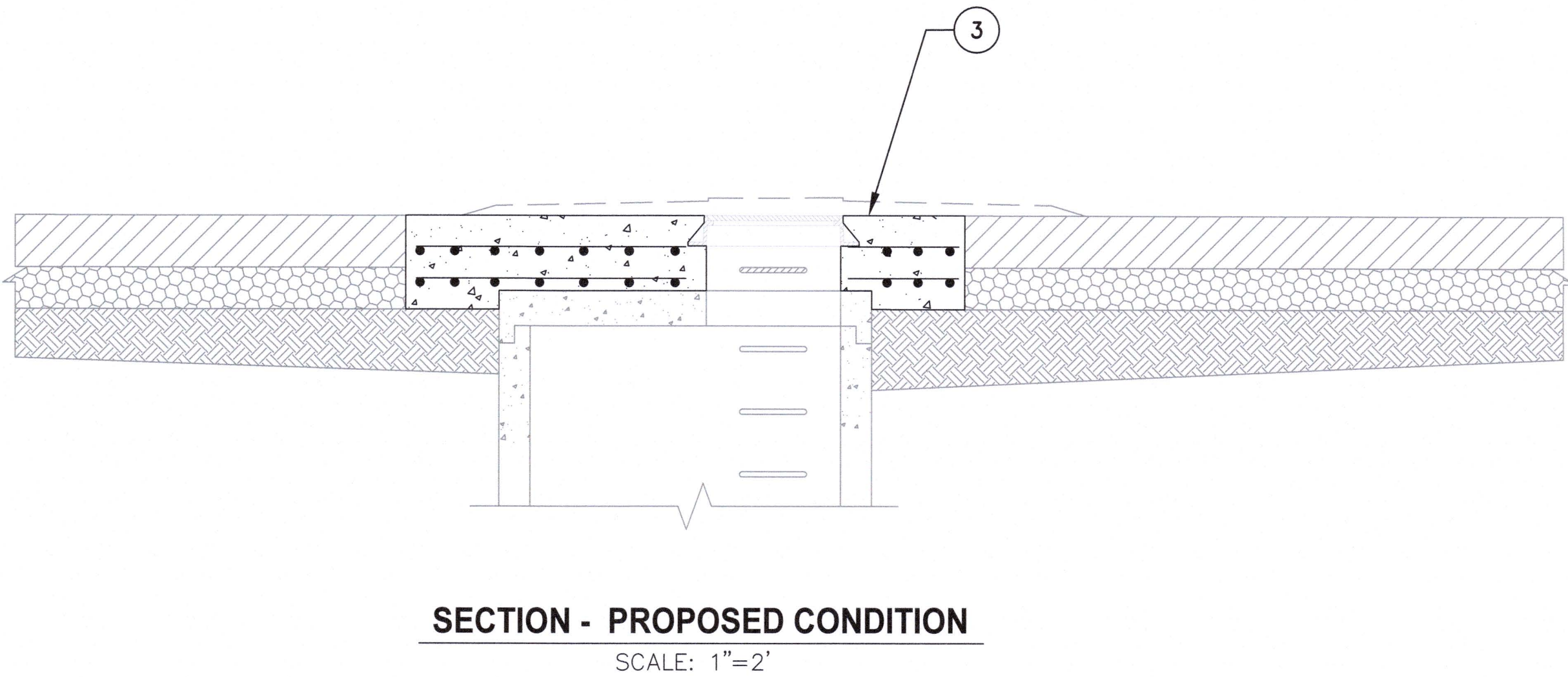
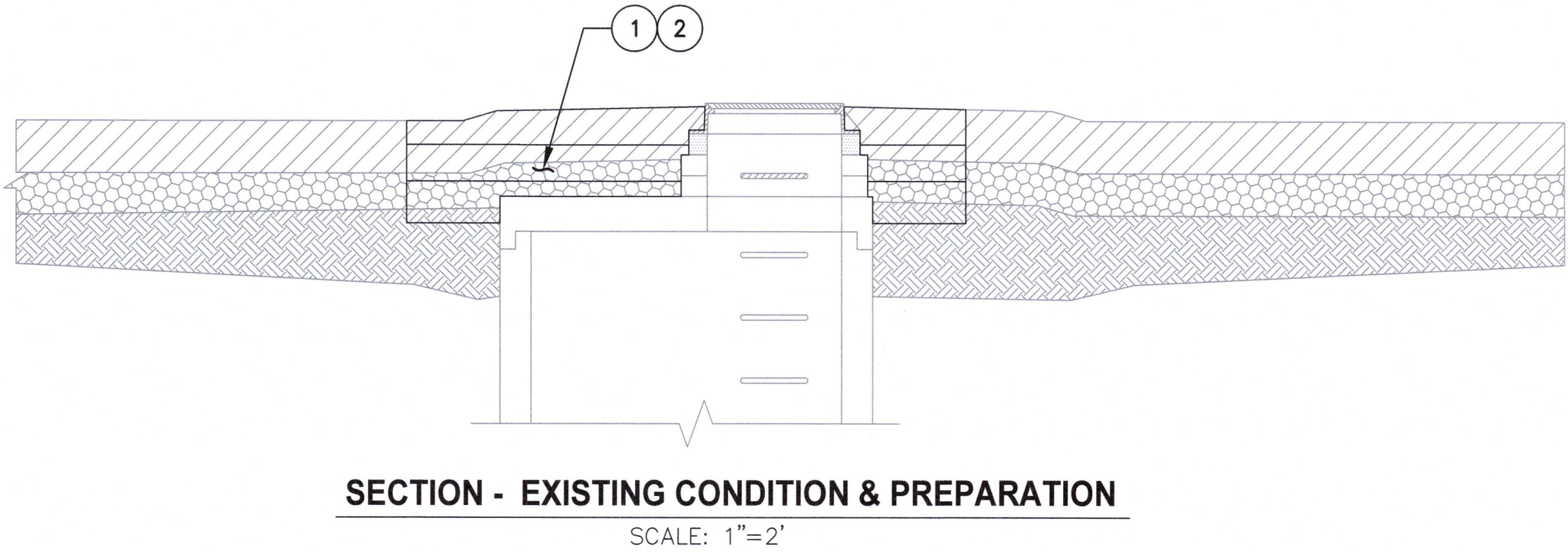
NOTES:

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'



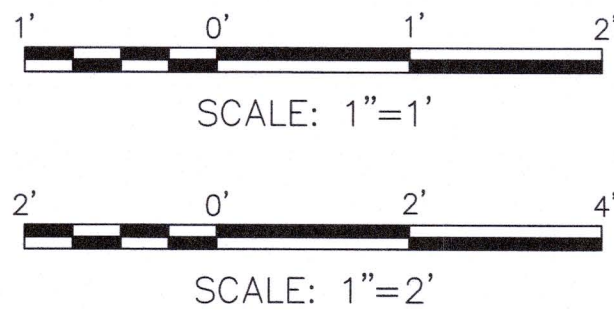
7 TYPICAL WORK AREA PROTECTION
VARIES SCALE: NTS



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'



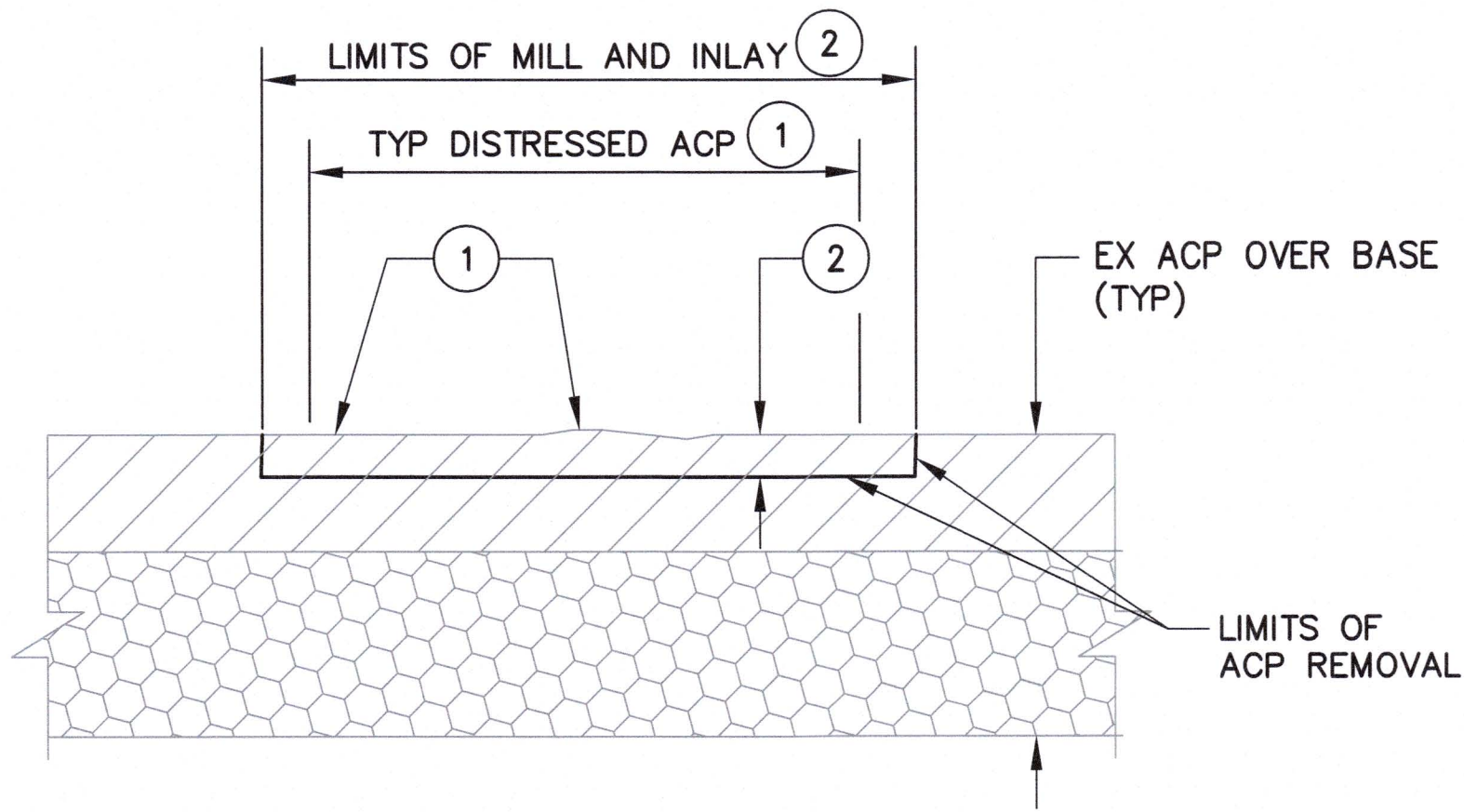
6635 C2.06 SHEET 15 OF 16	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS SITE DETAILS 06	APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR	CHECKED BY: S. GRAY DATE: 8/13/2021	DATE: 8/13/2021
		PRINTED BY: cgreene DATE: Aug 13, 2021	PROJ. ENGR. DATE: 8/13/2021	DATE: 8/13/2021
TOWNSHIP: 20N RANGE: 3E SECTION: MLLW		PORT ADDRESS: ONE SITCOM PLAZA TACOMA, WA 98401-1837		
M. ID: 201038.01		DRAWING SCALE: AS NOTED		
PHASE: BID SET		PARCEL: []		

Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (206) 622-0222

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

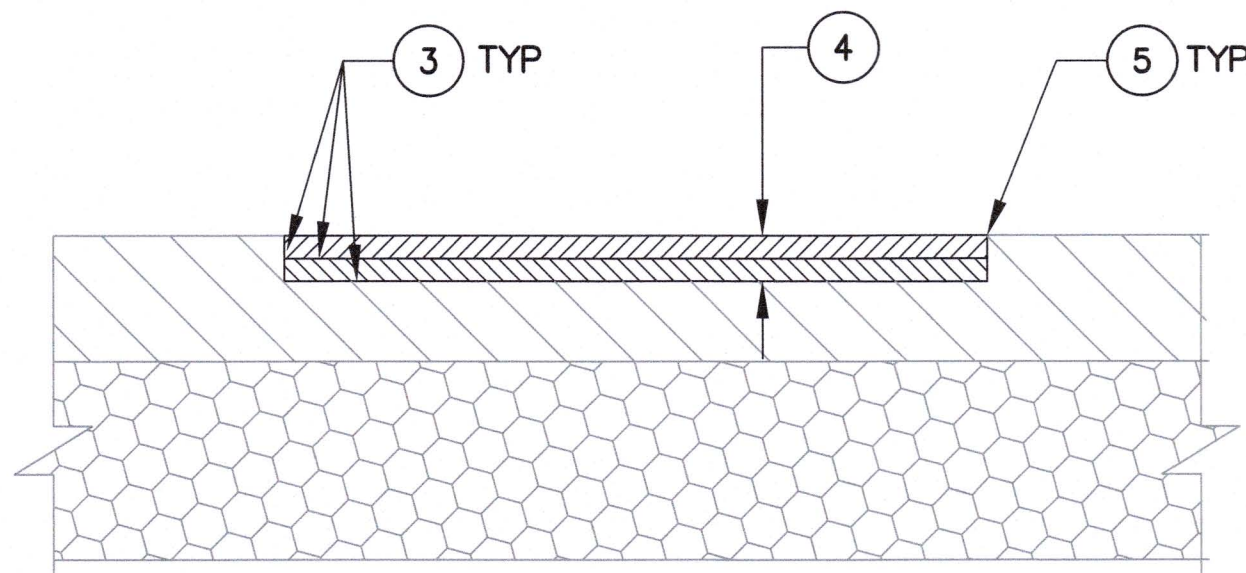
MARK: [] REVISION: [] BY: []

APPR: [] DATE: []



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.

6635
SHEET 16 OF 16
C2.07

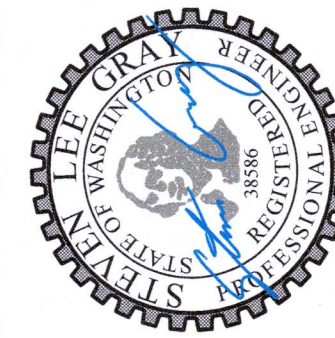
CONT/CONS: 071552
M. ID: 201038.01
PHASE: BID SET

PIERCE COUNTY TERMINAL
OPERATIONAL PAVEMENT REPAIRS
PAVING SECTIONS

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

APPROVED:
T. HOWARD
DIRECTOR
PRINTED BY: cgreene
PORT ADDRESS: ONE SITCOM PLAZA
TACOMA, WA 98401-1837

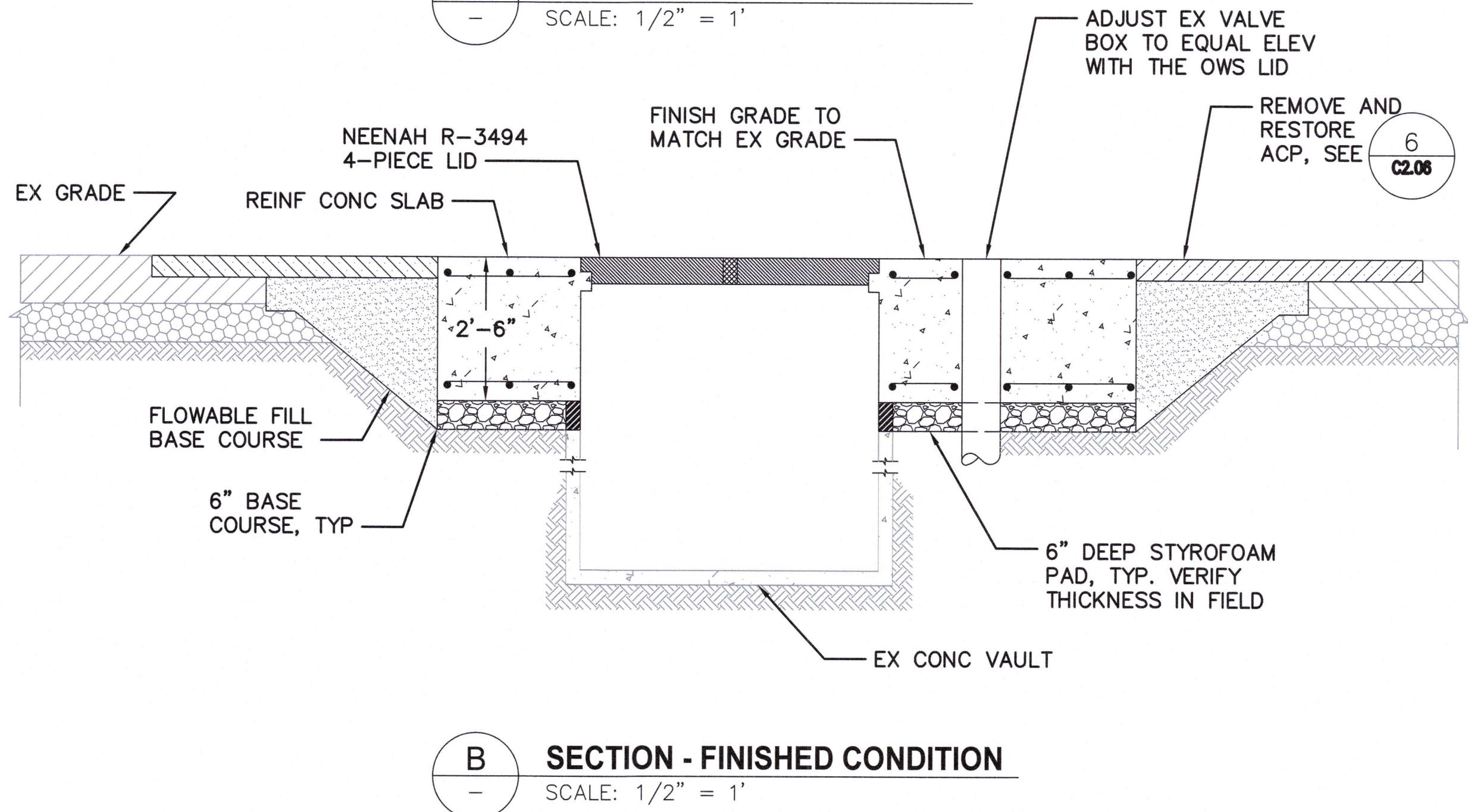
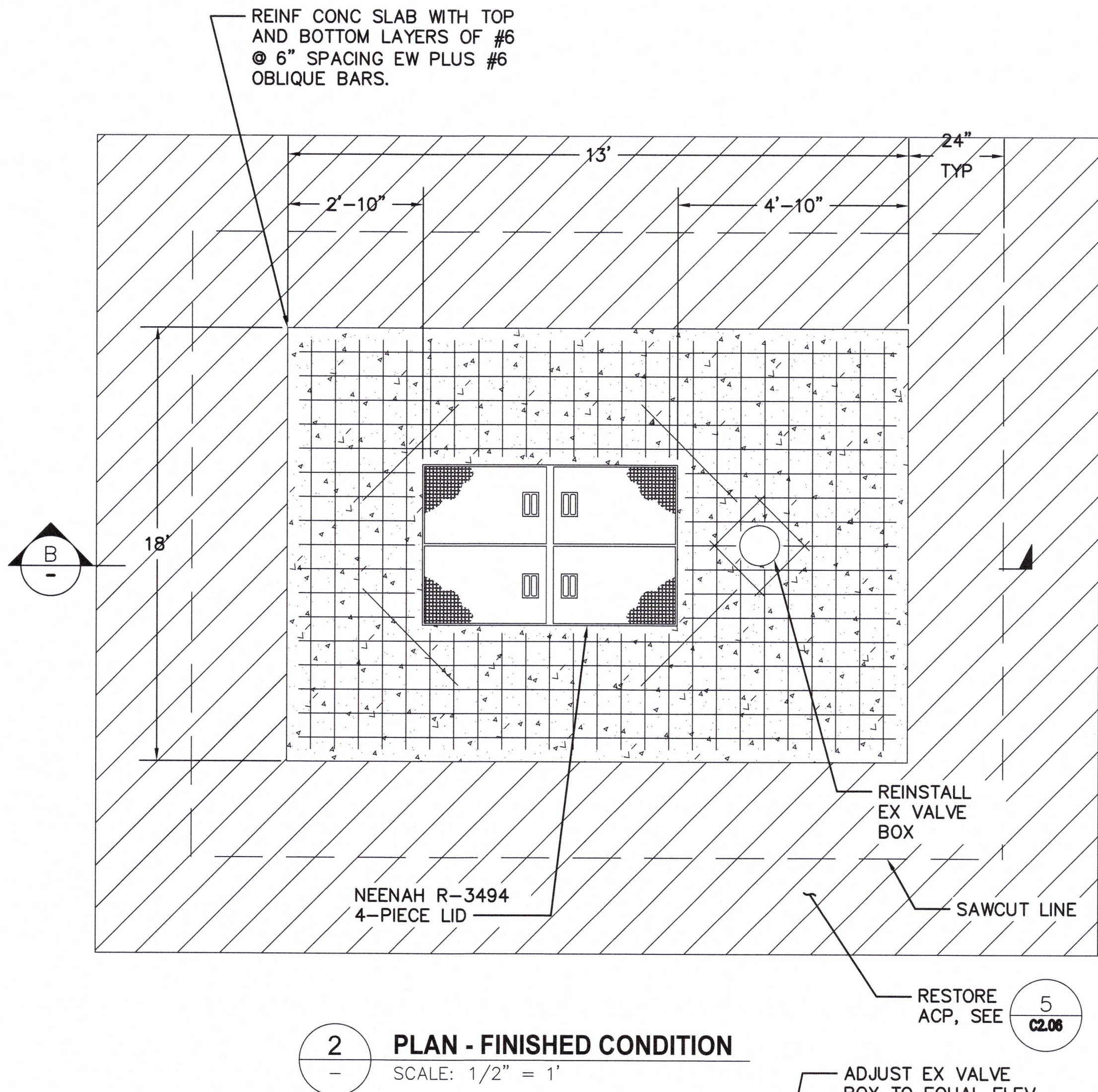
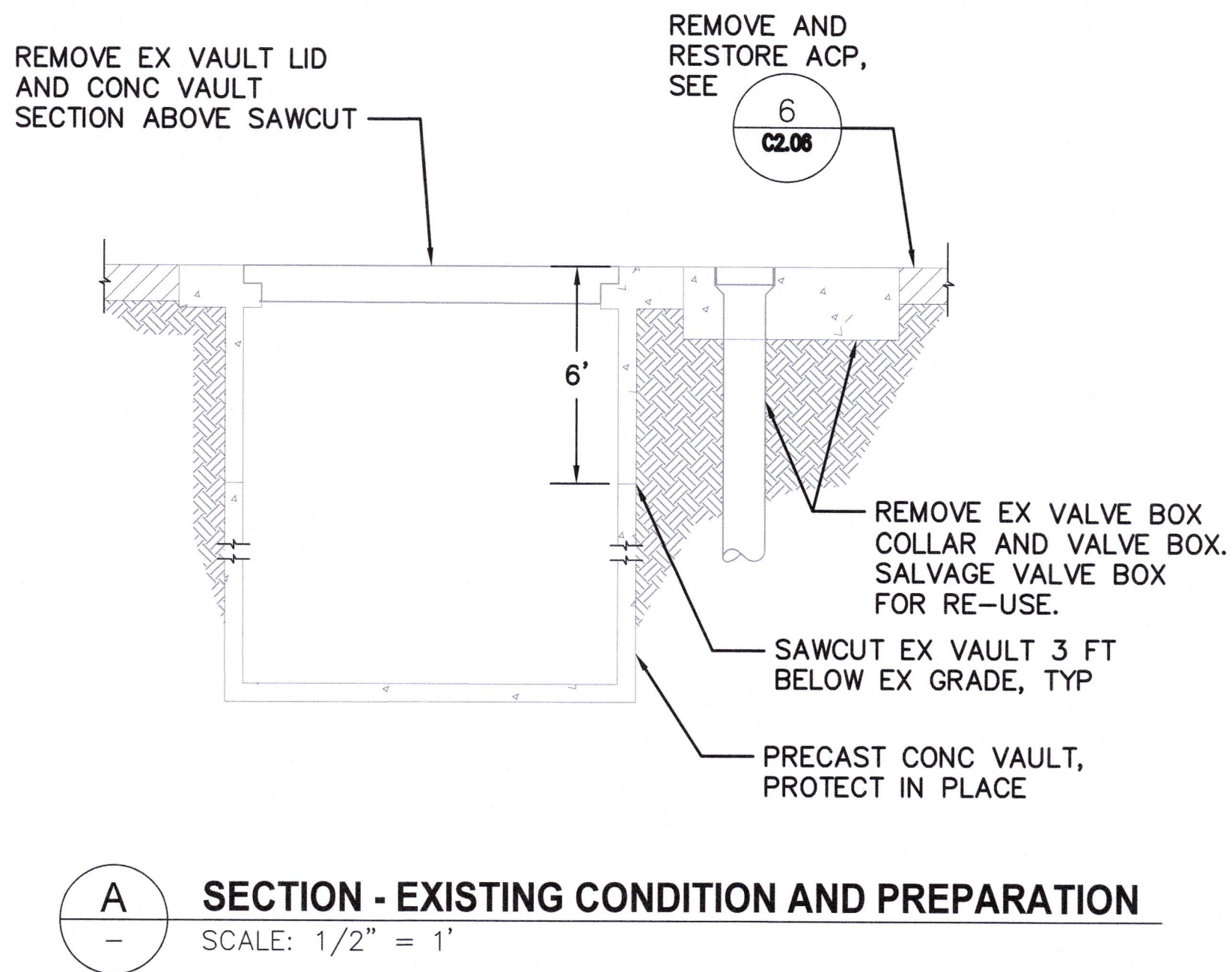
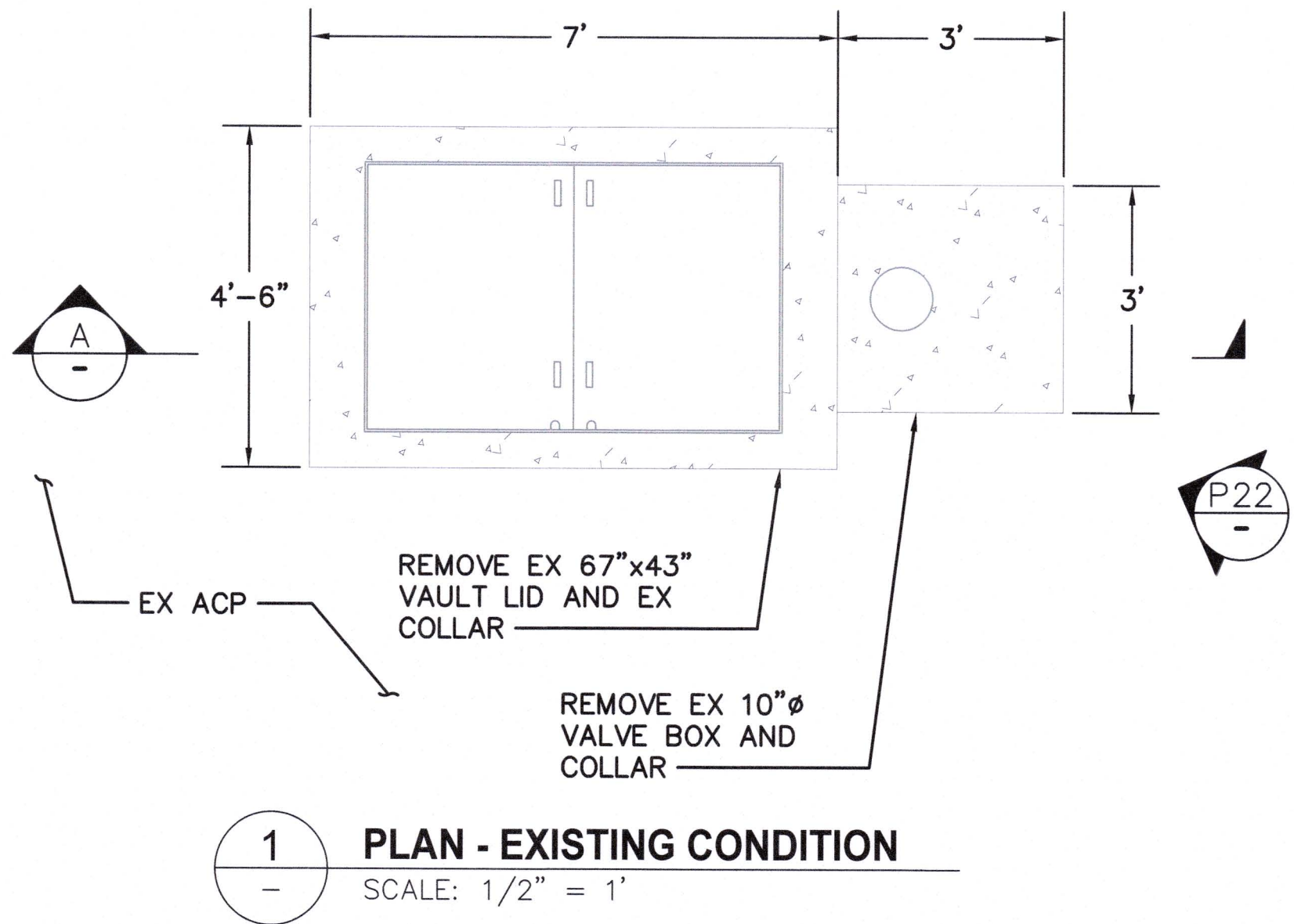
A. PATTERSON 8/13/2021
CHECKED BY: S. GRAY 8/13/2021
PROJ. ENGR: PROJ. ENGR
DATE: Aug 13, 2021



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

MARK: REVISION: BY: APPR: DATE:

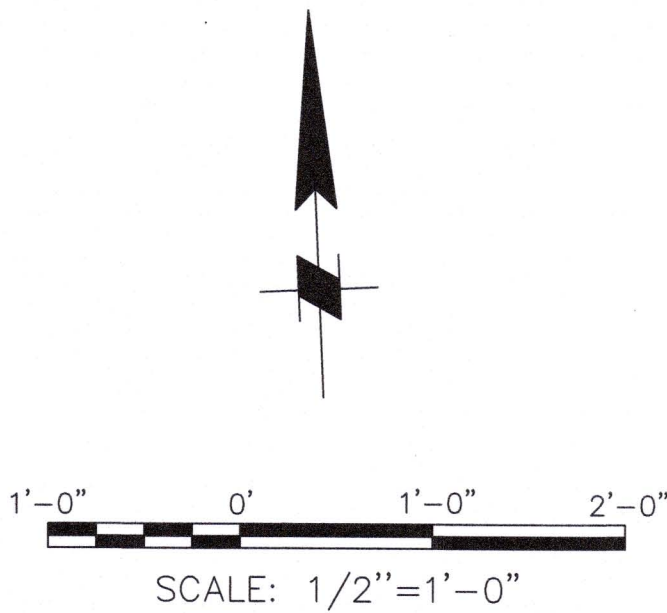
Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (253) 893-5841



NOTES:
1. EXISTING STRUCTURE SHOWN AT ESTIMATED LOCATION. CONTRACTOR SHALL FIELD VERIFY SITE CONDITIONS.



P22 OWS



6635 SHEET 28B OF 16 C2.08	PIERCE COUNTY TERMINAL OPERATIONAL PAVEMENT REPAIRS PLANS & SECTIONS				APPROVED: <i>[Signature]</i> T. HOWARD DIRECTOR DATE: 8/13/2021		A. PATERSON 8/13/2021 CHECKED BY: S. GAY DATE: 8/13/2021		SEAL: [Professional Engineer Seal]		moffatt & nichol 600 UNIVERSITY STREET, SUITE 610 SEATTLE, WA 98101 (206) 622-0222		Port of Tacoma P.O. BOX 887 TACOMA, WA 98401 (206) 385-5641	
	CONTRACT/CONS: 071552	TOWNSHIP: 20N	RANGE: 3E	SECTION: MLLW	PRINTED BY: cgreene	DATE: Aug 13, 2021	PROJECT: 071552	BY: [Signature]	REVISION: [Signature]	DATE: [Signature]	MARK: [Signature]	DATE: [Signature]	DATE: [Signature]	DATE: [Signature]