

PORT OF TACOMA

WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES PROJECT NO. 201090.01 CONTRACT NO. 071347

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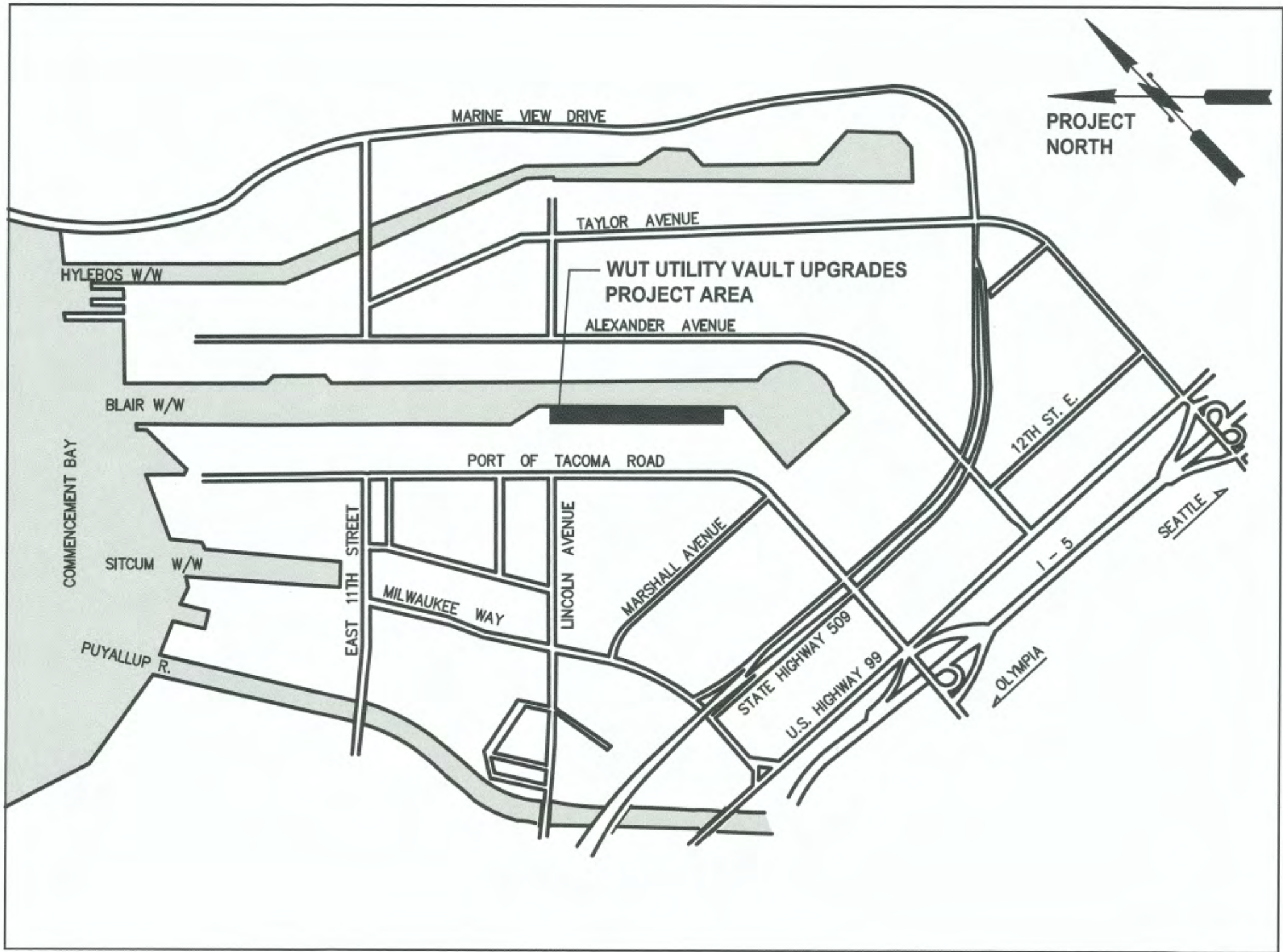
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WASHINGTON UNITED TERMINALS
UTILITY VAULT UPGRADES
COVER SHEET

6641
G1.1
1 OF 19

CONT./CONS: 071347
M. ID: 201090.01
PHASE: BID SET

RANGE: 0.3E TOWNSHIP: 21N SECTION: 35
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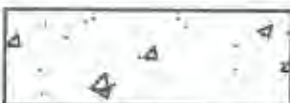
GENERAL NOTES

1. ALL WORK SHALL CONFORM TO THESE PLANS AND SPECIFICATIONS. ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE PROJECT PERMITS AND ALL FEDERAL, STATE, AND LOCAL REQUIREMENTS PERTAINING TO DEMOLITION AND DISPOSAL.
2. THE PROJECT SITE IS WITHIN AN ACTIVE TERMINAL. ALL ACTIVITIES SHALL BE COORDINATED WITH THE PORT AND THE TERMINAL OPERATOR. TERMINAL OPERATIONS SHALL NOT BE HINDERED TO THE EXTENT POSSIBLE. IN THE EVENT CONSTRUCTION ACTIVITY IS NOT COORDINATED WITH THE PORT AND TERMINAL OPERATORS AND RESULTS IN IMPACTS TO TERMINAL OPERATIONS, THE CONTRACTOR SHALL BE HELD LIABLE. 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. IF CLASSIFIED HAZARDOUS MATERIAL IS ENCOUNTERED DURING CONSTRUCTION, CONTRACTOR IS DIRECTED TO STOP WORK IN THE EFFECTED AREA IMMEDIATELY AND NOTIFY THE ENGINEER.
5. 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.
6. MODIFICATIONS TO EXISTING STRUCTURES SHALL MAINTAIN A WORKING LOAD CAPACITY OF 125 KIPS.
7. CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A DETAILED WORK PLAN, INCLUDING, DEMOLITION PRIOR TO COMMENCING WORK, SEE SPECIFICATIONS.
8. THE CONTRACT DOCUMENTS AND SPECIFICATIONS REPRESENT THE SCOPE OF WORK. UNLESS OTHERWISE SHOWN THEY DO NOT INDICATE THE METHOD OF WORK. THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK AND SHALL BE SOLELY RESPONSIBLE FOR ALL MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES.
9. THE CONTRACTOR SHALL KEEP ALL STREETS, TERMINAL AREAS, AND VEHICULAR TRAFFIC AREAS CLEAN.
10. CONTRACTOR IS RESPONSIBLE FOR ANY TRAFFIC CONTROLS REQUIRED DURING THE DURATION OF THIS PROJECT, SEE SPECIFICATIONS.
11. CONTRACTOR SHALL PROTECT-IN-PLACE ALL STRUCTURES, UTILITIES AND OBJECTS NOT CALLED OUT AS BEING DEMOLISHED ON THE PLANS. ANY DAMAGE TO ITEMS NOT BEING DEMOLISHED SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
12. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO STRICTLY CONTAIN THE WORK WITHIN CLOSE PROXIMITY TO THE SCOPE SHOWN ON THE DRAWINGS, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. ANY DAMAGE TO UTILITIES, OTHER FACILITIES, OR EQUIPMENT DUE TO THE CONTRACTOR'S NEGLIGENCE SHALL BE PROMPTLY REPAIRED AT THE CONTRACTOR'S EXPENSE. THIS INCLUDES ITEMS OUTSIDE THE WORK AREA THAT ARE DAMAGED BY CONSTRUCTION ACTIVITIES DURING EXECUTION OF THIS CONTRACT.
13. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN AND TO FURTHER DISCOVER AND AVOID OTHER UTILITIES NOT SHOWN HEREIN WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL BRING ANY CONFLICTS BETWEEN EXISTING UTILITIES AND NEW WORK TO THE ENGINEER'S ATTENTION.
14. THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES PRIOR TO COMMENCING WORK IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS.
15. PRIOR TO COMMENCING DEMOLITION ACTIVITIES CONTRACTOR SHALL IMPLEMENT TEMPORARY EROSION AND SEDIMENTATION CONTROLS. NO DEMOLITION MATERIALS OR DEBRIS SHALL BE ALLOWED TO ENTER THE WATERWAY, SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
16. ALL PHASE 1 LID REPAIRS ARE LOCATED WITHIN THE LIMITS OF THE "FORMER MURRAY PACIFIC #2 LOG SORT YARD" CONSENT DECREE AREA. THE CONTRACTOR SHALL NOT EXCAVATE INTO THE EXISTING CAP ASSOCIATED WITH THE CONSENT DECREE. PROPOSED EXCAVATION DEPTHS TO THE TOP OF VAULT TO REMAIN, AS DEFINED IN THE DRAWINGS HEREIN, ARE ANTICIPATED TO BE ABOVE THE EXISTING CONSENT DECREE CAP. IF EXCAVATION EXCEEDS 2 FEET BELOW GRADE OR IF CAP MATERIAL IS ENCOUNTERED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY. SEE PROJECT SPECIFICATIONS.

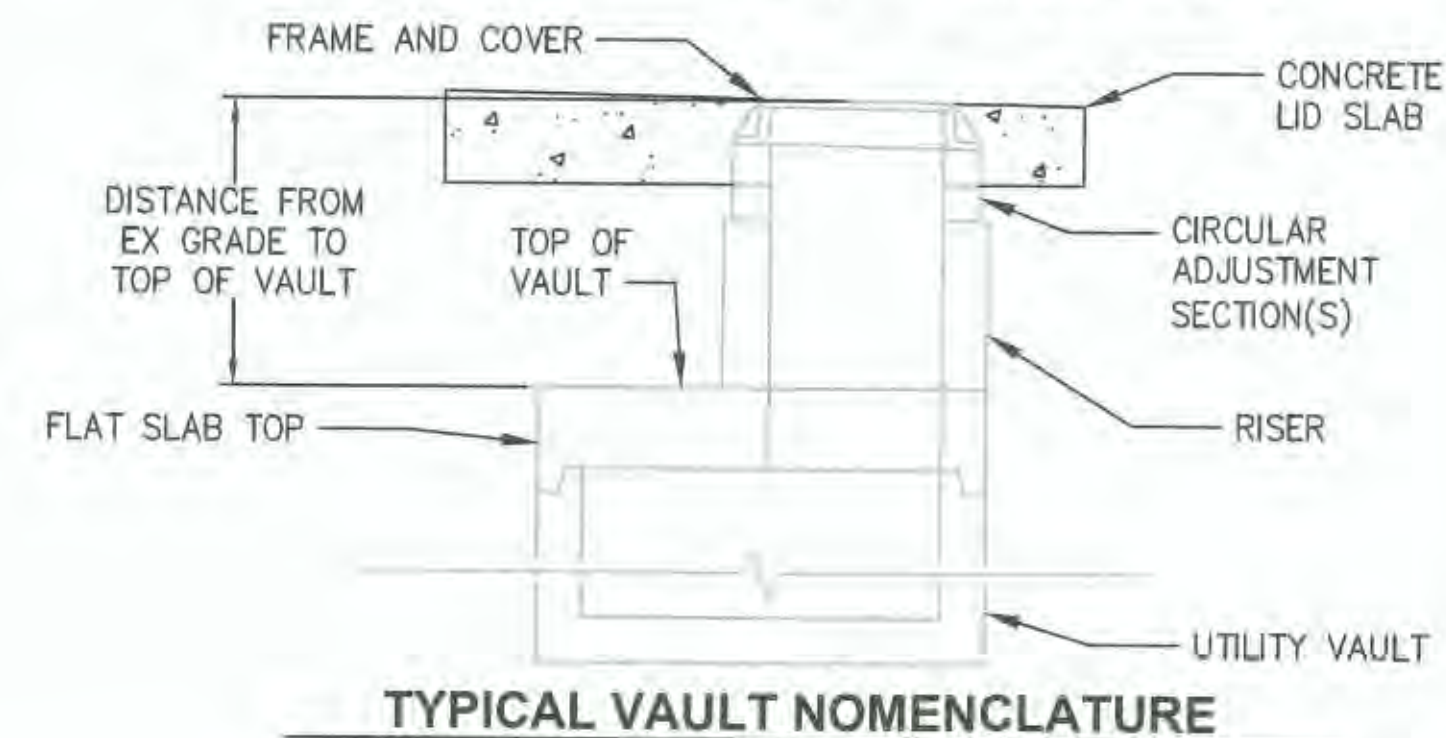
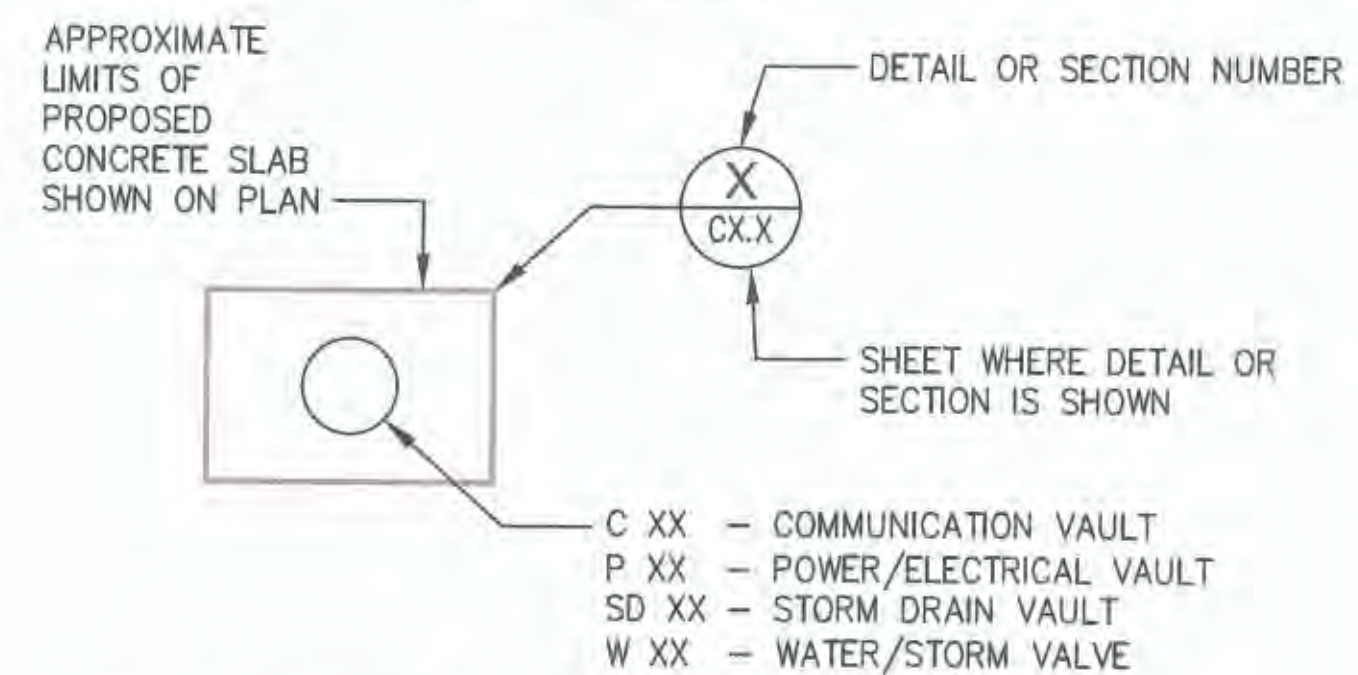
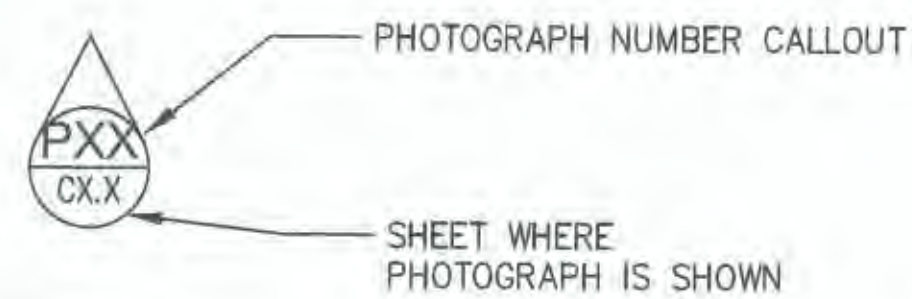
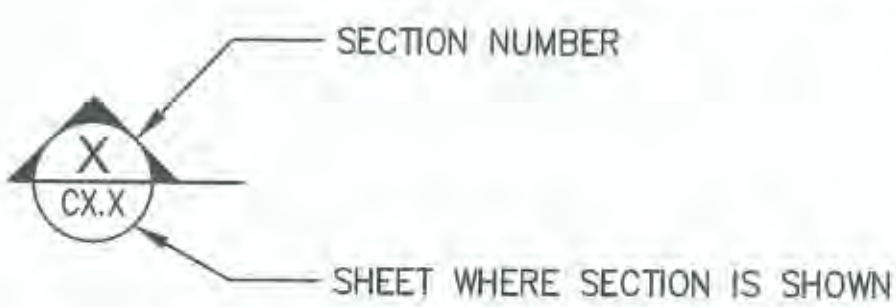
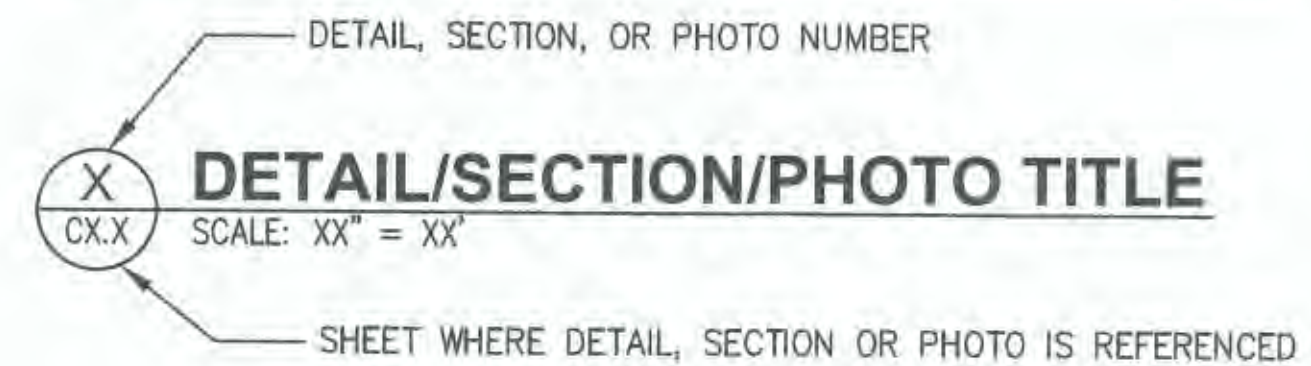
ABBREVIATIONS

#	NUMBER	LF	LINEAL FOOT
Ø	DIAMETER	LH	LEFT HAND
⊙	AT	LIN	LINEAL or LINEAR
AB	AGGREGATE BASE	MAX	MAXIMUM
AC	ASPHALT CONCRETE	MH	MANHOLE
ACI	AMERICAN CONCRETE INSTITUTE	MIL	MILLIMETER
ACP	ASPHALTIC CONCRETE PAVEMENT	MIN	MINIMUM
ADD, ADDL	ADDITIONAL	MISC	MISCELLANEOUS
ADJ	ADJACENT	MSP	MANUAL OF STANDARD PRACTICE
AGGR	AGGREGATE	MUTCD	MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES
ALT	ALTERNATE	N	NORTH or NORTING
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	N/A	NOT APPLICABLE
APP or APPVD	APPROVED	NE	NORTHEAST
APPROX	APPROXIMATE	NIC	NOT IN CONTRACT
APWA	AMERICAN PUBLIC WORKS ASSOCIATION	NO	NUMBER
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS	NTS	NOT TO SCALE
AVG	AVERAGE	NW	NORTHWEST
AWS	AMERICAN WELDING SOCIETY	OC	ON CENTER
AWWA	AMERICAN WATER WORKS ASSOCIATION	OD	OUTSIDE DIAMETER
BM	BENCH MARK or BEAM	OVH	OVERHEAD
BMP or BMP'S	BEST MANAGEMENT PRACTICES	P/L or PL	PROPERTY LINE
BOT	BOTTOM	PB	PULL BOX
BTW or BTWN	BETWEEN	PCC	PORTLAND CEMENT CONCRETE
BV	BALL VALVE	PERP	PERPENDICULAR
CY	CONTAINER YARD or CUBIC YARD	PG	PERFORMANCE GRADE
C/L	CENTERLINE	PI	POINT OF INTERSECTION
CAB	CRUSHED AGGREGATE BASE	PJ	PUSH-ON JOINT
CB	CATCH BASIN	PNT	POINT
CC	CENTER TO CENTER	POT	PORT OF TACOMA
CFS	CUBIC FEET PER SECOND	PR	PRESSURE RATING
CIP	CAST IRON PIPE	PROP	PROPOSED
CL	CENTER LINE or CLASS	PSF	POUNDS PER SQUARE FOOT
CLR	CLEAR or CLEARANCE	PSI	POUNDS PER SQUARE INCH
CO	CLEAN OUT	PT	POINT or POINT OF TANGENCY
CONC	CONCRETE	PVC	POLYVINYL CHLORIDE
CONT	CONTINUE or CONTINUOUS	PVMT	PAVEMENT
CONT'D	CONTINUED	R	RIDGE OR RADIUS
COORD	COORDINATE	R/W OR ROW	RIGHT OF WAY
COUP	COUPLING	RCP	REINFORCED CONCRETE PIPE
CPT	CONE PENETROMETER TEST	RD	ROAD
CRSI	CONCRETE REINFORCING STEEL INSTITUTE	REF	REFERENCE
CSBC	CRUSHED SURFACING BASE COURSE	REINF	REINFORCE OR REINFORCING
CSTC	CRUSHED SURFACING TOP COURSE	REQ'D	REQUIRED
CTR	CENTER	RH	RIGHT HAND
DIA	DIAMETER	RP	RADIUS POINT
DIAG	DIAGONAL	RR	RAILROAD
DIM	DIMENSION	RT.	RIGHT
DIP	DUCTILE IRON PIPE	S	SLOPE OR SOUTH
DWG	DRAWING	SD	STORM DRAIN
DWY	DRIVEWAY	SDR	STANDARD DIMENSION RATIO
E	EAST or EASTING	SDMH	STORM DRAIN MANHOLE
EA	EACH	SE	SOUTH-EAST
EG	EXISTING GRADE	SECT	SECTION
EL or ELEV	ELEVATION	SHT	SHEET
ELEC or ELECT	ELECTRICAL	SIM	SIMILAR
ENGR	ENGINEER	SPECS	SPECIFICATIONS
EOR	ENGINEER OF RECORD	SQ	SQUARE
EP	EDGE OF PAVEMENT	SOFT	SQUARE FEET
EQ	EQUAL	SSMH	SANITARY SEWER MANHOLE
ES	EACH SIDE	STD	STANDARD
ETC	ET CETERA	STL	STEEL
EW	EACH WAY	SW	SOUTHWEST
EX or EXIST	EXISTING	SYM	SYMMETRIC or SYMBOL
EXP JT	EXPANSION JOINT	TB	THRUST BLOCK
FG	FINISH GRADE	TBM	TEMPORARY BENCH MARK
FH	FIRE HYDRANT	TESC	TEMPORARY EROSION AND SEDIMENTATION CONTROL
FIN	FINISH		
FL	FLOW LINE OR FLANGE	T&B	TOP AND BOTTOM
FM	FORCE MAIN	TPU	TACOMA PUBLIC UTILITIES
FS	FINISHED SURFACE	TW	TOP OF WALL
FSM	FIRE SERVICE METER	TYP	TYPICAL
FT	FOOT, FEET	UNO	UNLESS NOTED OTHERWISE
G	GAS	UV	ULTRA-VIOLET
GIS	GEOGRAPHIC INFORMATION SYSTEM	V	VERTICAL
GPS	GLOBAL POSITIONING SYSTEM	VAR	VARIABLE or VARIES
GV	GATE VALVE	VERT	VERTICAL
H or HORIZ	HORIZONTAL	W	WATER, WEST, WIDTH
HAZMAT	HAZARDOUS MATERIALS	W/	WITH
HDPE	HIGH DENSITY POLYETHYLENE	W/O	WITHOUT
HMA	HOT MIX ASPHALT	WHS	WELDED HEADED STUD
HORIZ	HORIZONTAL	WM	WATER METER
HT	HEIGHT	XO	CROSSOVER
ID	INSIDE DIAMETER	XS	EXTRA STRONG
IE	INVERT ELEVATION		
IN	INCH		
INCL	INCLUDE		
JB	JUNCTION BOX		
JS	JUNCTION STRUCTURE		
JT	JOINT		
KIP(S)	KILOPOUND(S)		
L	LENGTH		
LAT	LATERAL		
LB	POUND		

LEGEND

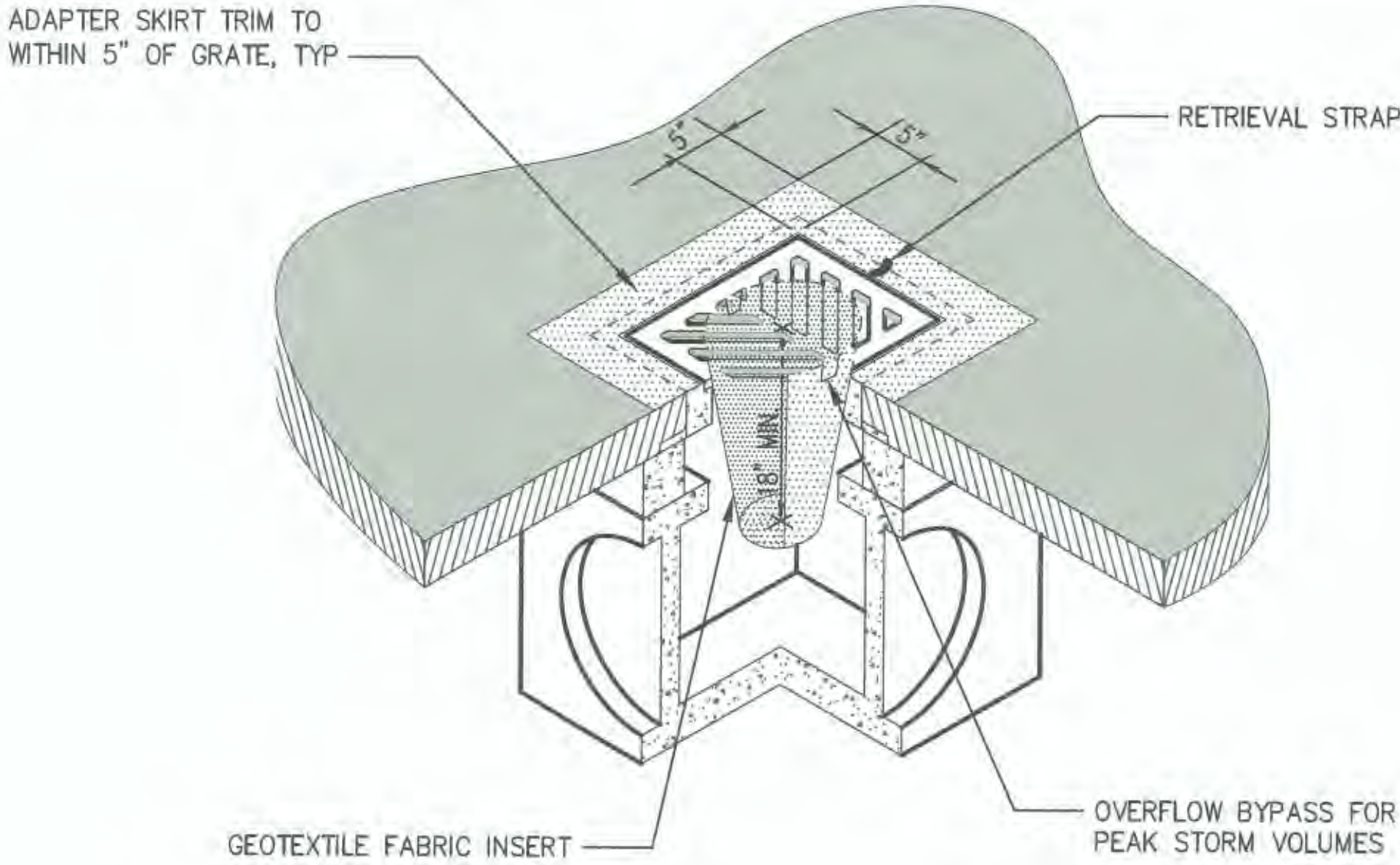
	CONCRETE (IN SECTION)
	DEMO LIMITS
	EXISTING CONCRETE
	EXISTING ASPHALT
	EXISTING GRAVEL BASE
	EXISTING SUBGRADE
	CONCRETE SLAB OUTLINE (ON PLAN)

REFERENCE CALLOUTS

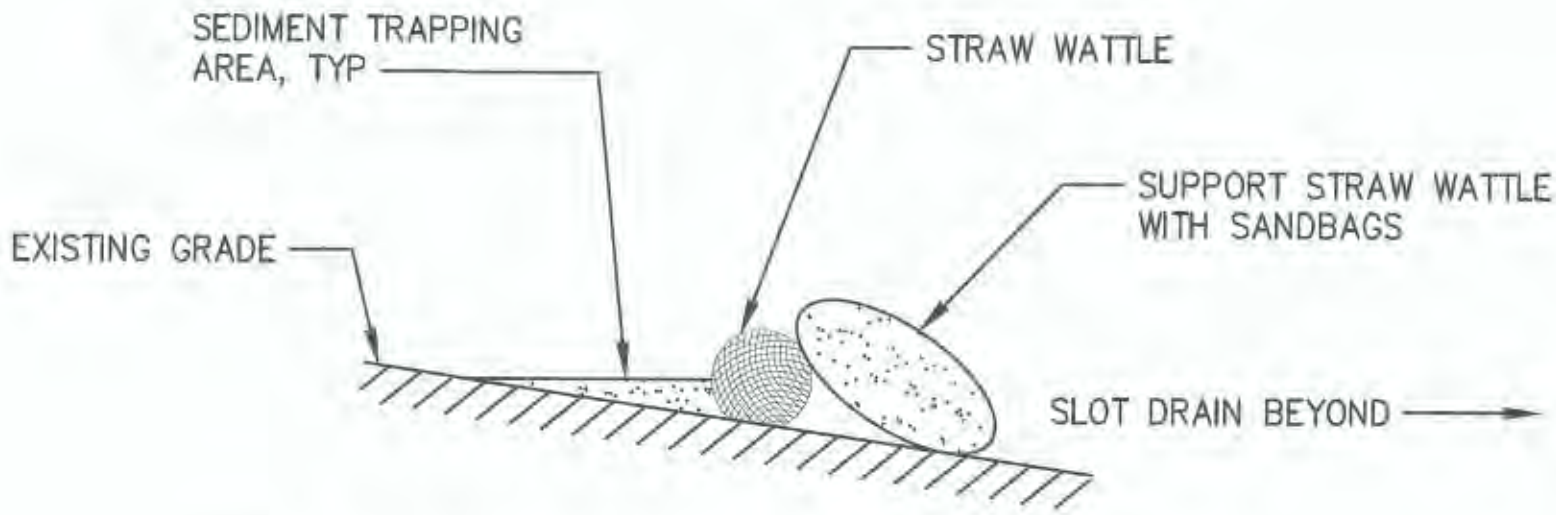


TEMPORARY EROSION AND SEDIMENT CONTROL (TESC) NOTES

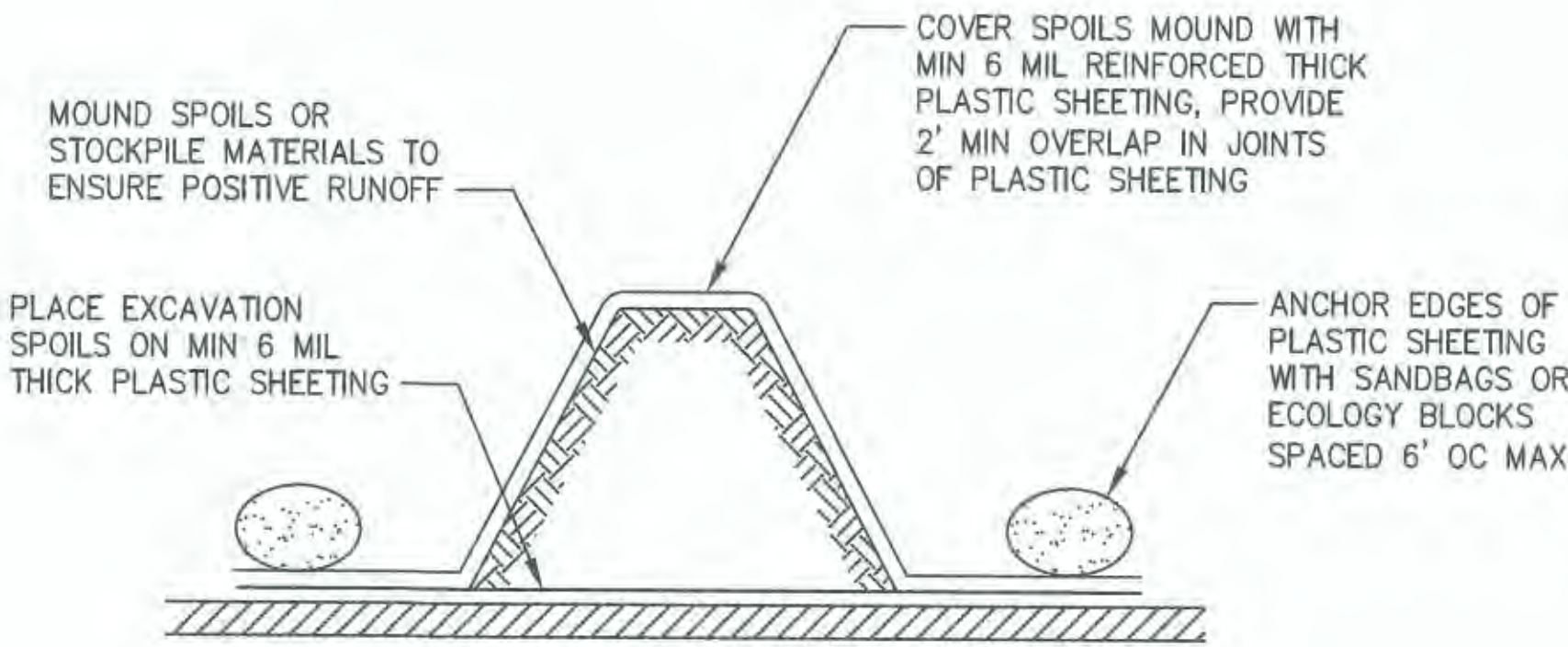
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR EMPLOYING THE LISTED TESC BMPs AS NEEDED TO PREVENT SEDIMENT LADEN WATER FROM ENTERING THE STORM DRAIN SYSTEM. IF LISTED BMPs ARE INSUFFICIENT, ADDITIONAL BMPs MAY BE REQUIRED.
2. EROSION AND SEDIMENTATION CONTROL MEASURES SHALL MEET THE REQUIREMENTS OF SPECIFICATIONS SECTION 01 57 13.
3. 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 AND FOLLOWING CONSTRUCTION UNTIL THE ENTIRE SITE HAS BEEN STABILIZED.
4. 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 2019 STORMWATER MANAGEMENT MANUAL FOR WESTERN WASHINGTON, INCLUDING VOLUME 2 "CONSTRUCTION STORMWATER POLLUTION PREVENTION" AND INCLUDE:
 - BMP C103: HIGH VISIBILITY FENCE
 - BMP C105: STABILIZED CONSTRUCTION ACCESS
 - BMP C107: CONSTRUCTION ROAD/PARKING AREA STABILIZATION
 - BMP C123: PLASTIC COVERING
 - 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: INLET PROTECTION
 - BMP C235: WATTLES
5. 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.
6. 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.
7. TESC FACILITIES SHALL BE PROVIDED IN CONJUNCTION WITH CLEARING AND GRADING AND/OR DEMOLITION FROM 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.
8. 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.
9. 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.
10. CATCH BASIN CLEANING SHALL NOT FLUSH SEDIMENT LADEN WATER INTO THE DOWNSTREAM PIPE OR SYSTEM.
11. 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.
12. ALL DISTURBED AREAS SHALL BE STABILIZED BY ACCEPTABLE METHODS FOR THE PREVENTION OF ON-SITE EROSION AFTER COMPLETION OF CONSTRUCTION.
13. REMOVE TEMPORARY EROSION AND SEDIMENT CONTROL FACILITIES FROM EACH WORK AREA AFTER IT HAS BEEN COMPLETELY STABILIZED.



1 INLET PROTECTION DETAIL
NTS



2 STRAW WATTLE DETAIL
NTS



3 STOCKPILE PROTECTION DETAIL
NTS

NOTES:

1. INSERT SHALL BE INSTALLED IN ALL OPERATIONAL CATCH BASINS WITHIN 500 FEET OF WORK LIMITS PRIOR TO CLEARING AND GRADING ACTIVITY, OR UPON PLACEMENT OF A NEW CATCH BASIN.
2. FILTERS SHALL BE INSPECTED AFTER EACH STORM EVENT AND CLEANED OR REPLACED WHEN IT IS 1/3 FULL.

6641 G1.3 3 OF 19	WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES TESC NOTES AND DETAILS				APPROVED: 	RLO	03/09/2020
	CONT./CONS: 071347	TOWNSHIP: 21N	RANGE: 03E	SECTION: 35	DIRECTOR ENG. DATE: 03/09/2020	SWK	03/09/2020
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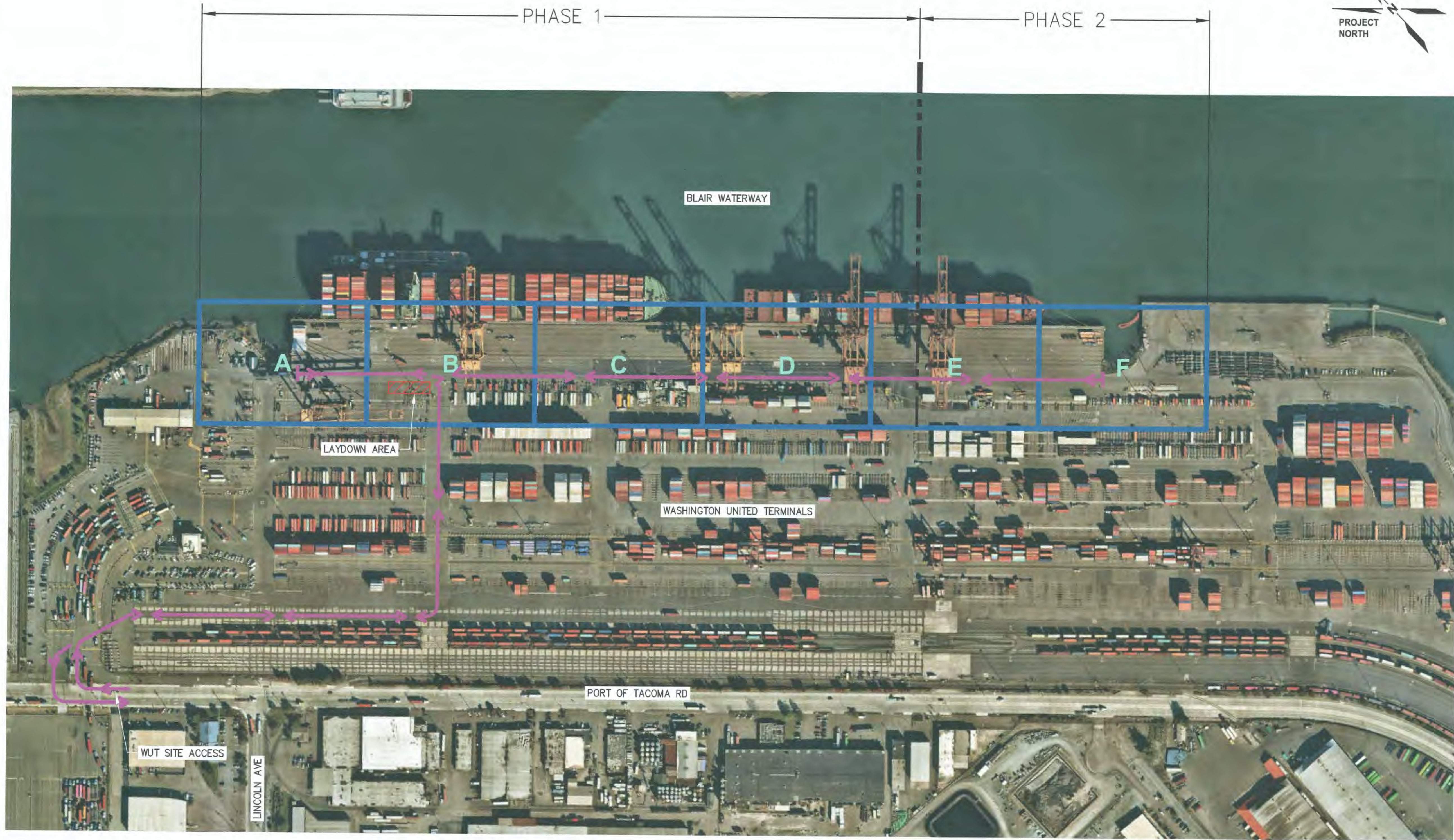


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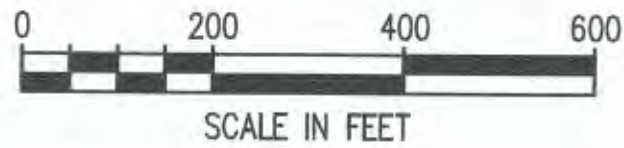
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STATE OF WASHINGTON
PROFESSIONAL ENGINEER
NO. 19791
EXPIRATION DATE 12/31/2024

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NOTES

1. TWC CARD OR TWC ESCORT REQUIRED FOR ACCESS TO TERMINAL FOR ALL WORKERS. CONTRACTOR SHALL COORDINATE SITE ACCESS WITH ENGINEER.
2. PHASE 2 WORK TO COMMENCE IN 2021.



LEGEND

-  CONTRACTOR ACCESS ROUTE
-  LAYDOWN AREA

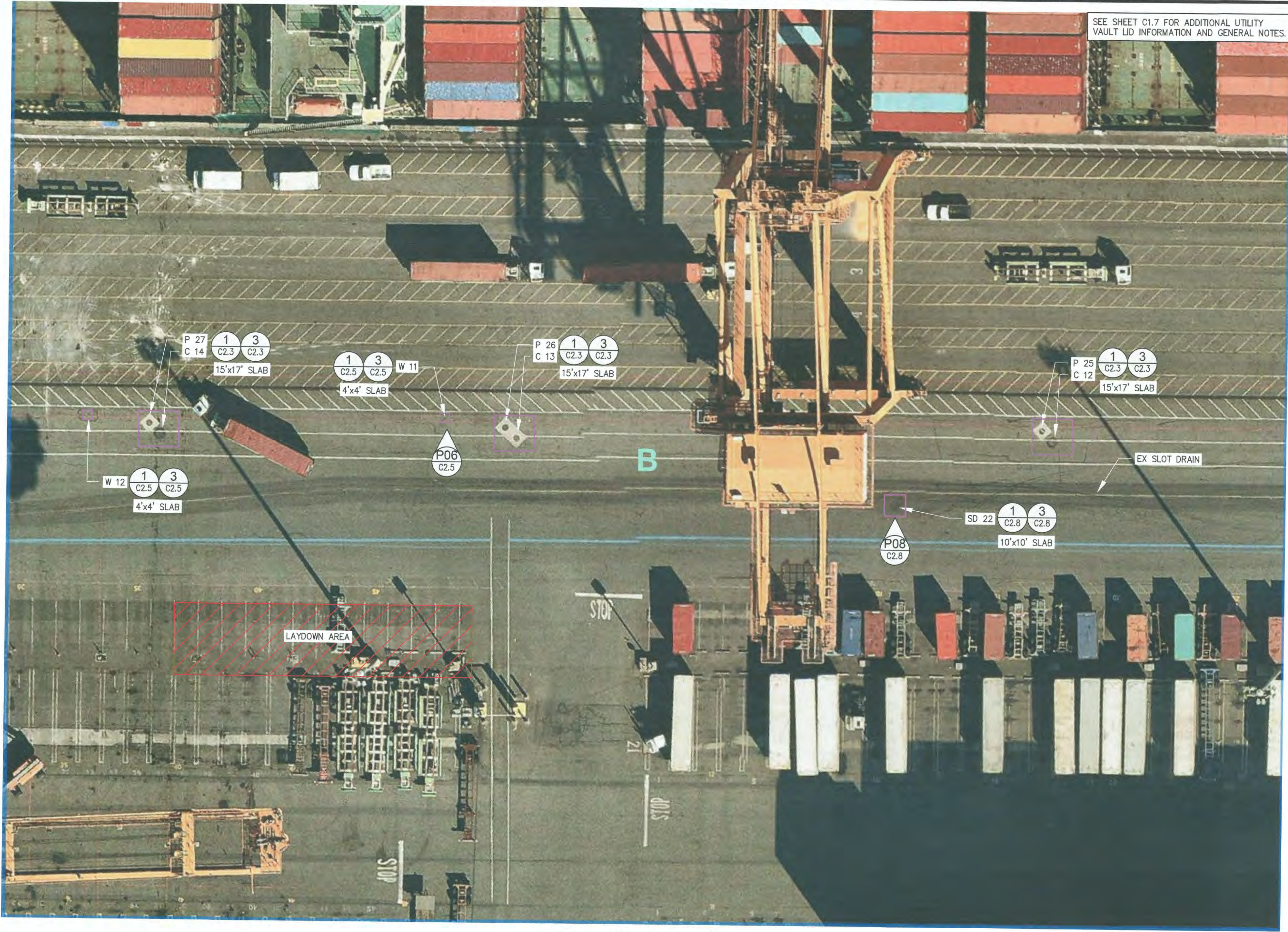
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REGISTERED PROFESSIONAL ENGINEER
No. 32791
J. B. BRYAN

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	SITE PLAN AREA A						CHECKED BY	DATE			
					DIRECTOR ENGR. DATE		SWK	03/09/2020			
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SEE SHEET C1.7 FOR ADDITIONAL UTILITY
VAULT LID INFORMATION AND GENERAL NOTES.



6641
C1.2
6 OF 19

WASHINGTON UNITED TERMINALS
UTILITY VAULT UPGRADES
SITE PLAN
AREA B

CONTR/CONS: 071347
M. ID: 201090.01
PHASE: BID SET

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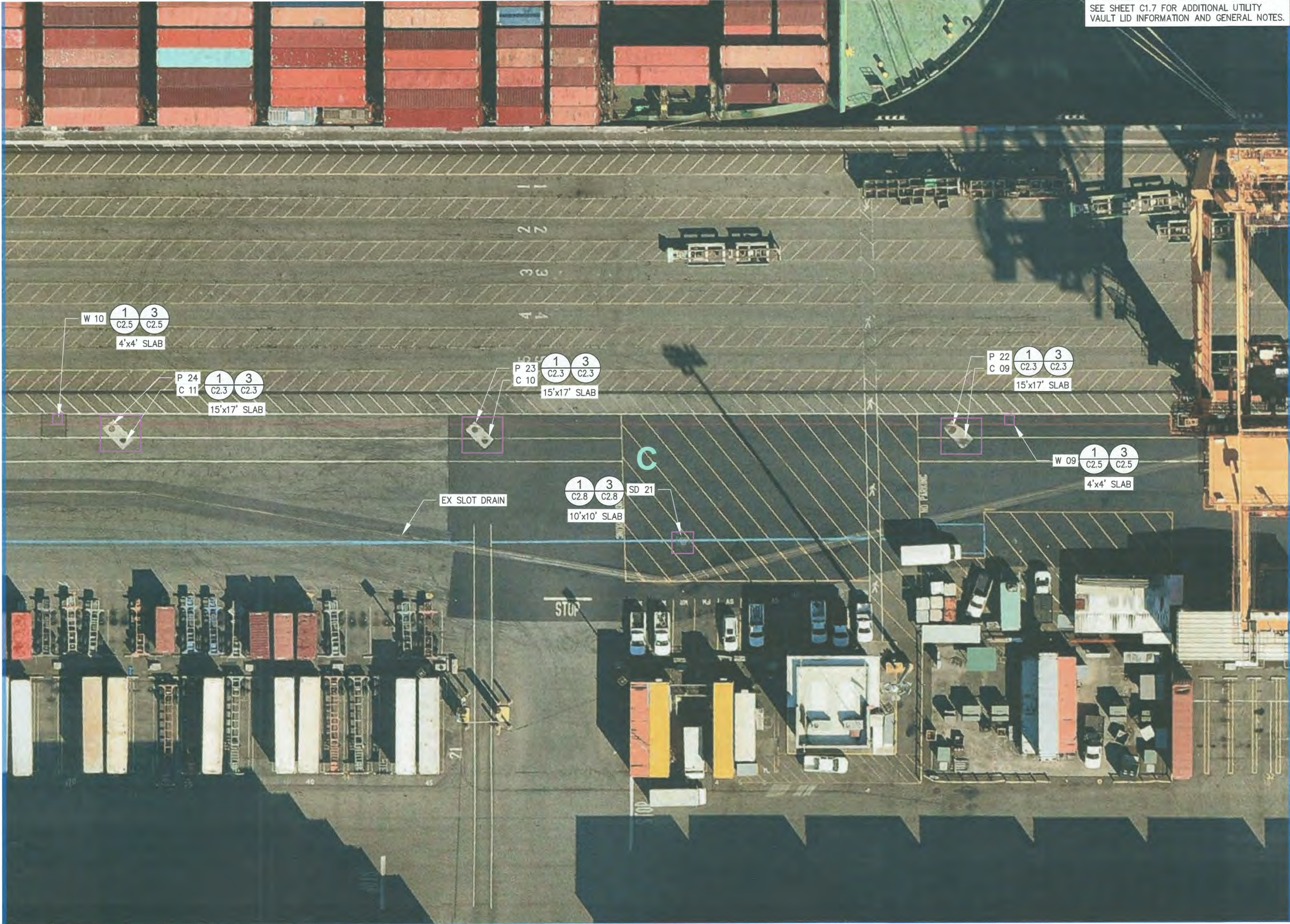
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WASHINGTON STATE
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No. 3791
EXPIRATION DATE 03/31/2025

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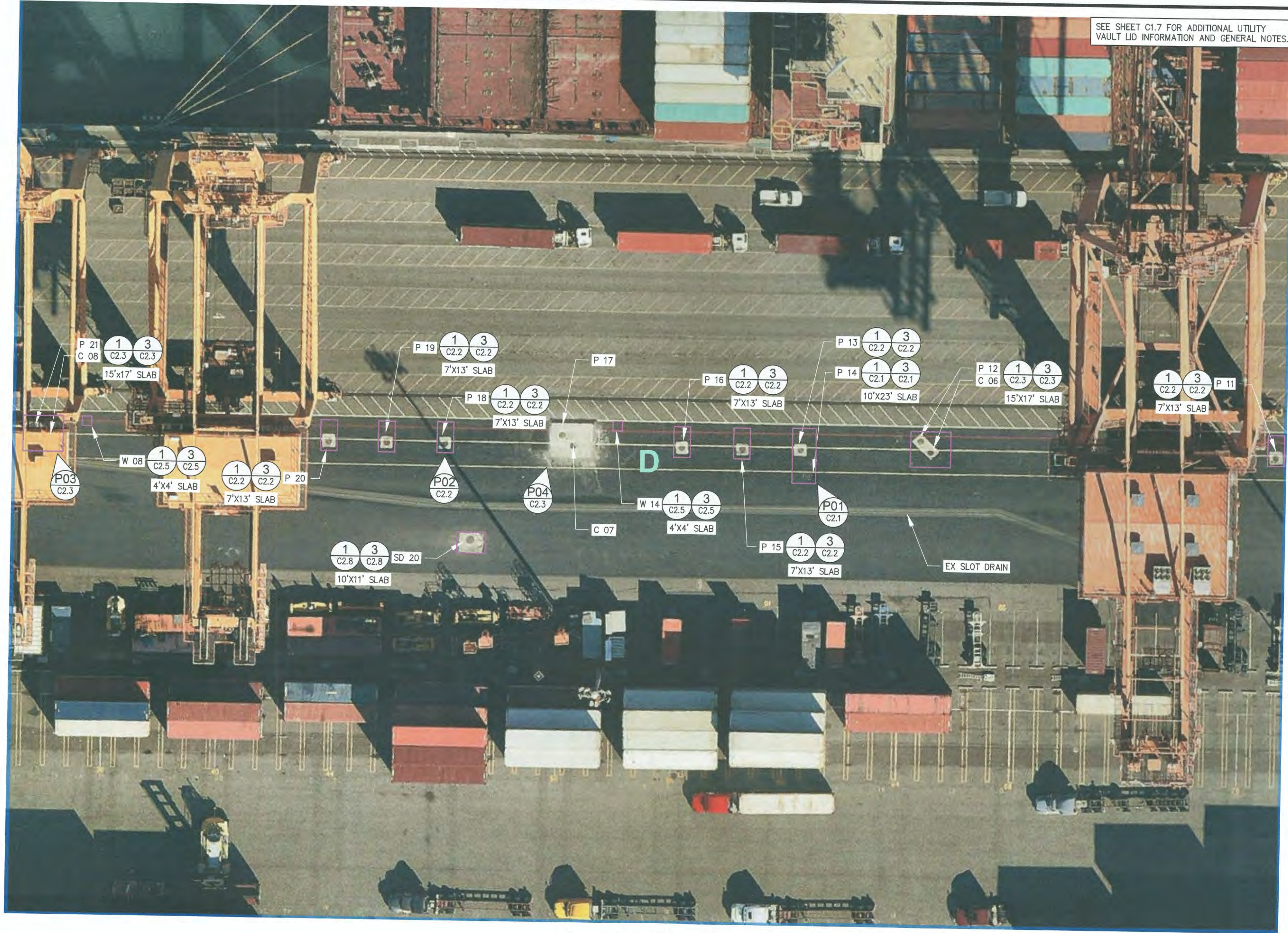




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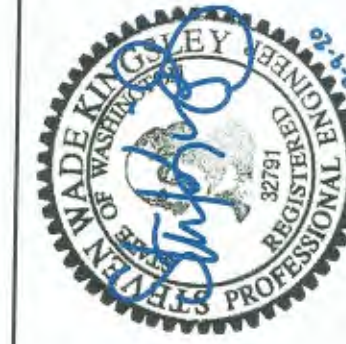
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6641 C1.4 8 OF 19	WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES SITE PLAN AREA D				APPROVED: 	RLO	03/09/2020
	CONTRACT/CONS: 071347	TOWNSHIP: 21N	RANGE: 03E	SECTION: 35	DIRECTOR ENG. DATE: 03/09/2020	CHECKED BY	DATE
M. ID: 201090.01	DAT-HRZ:	VERT:		PRINTED BY: rhlambert Mar 09, 2020	PROJ. ENGR	DATE	
PHASE: BID SET	PARCEL:			PORT ADDRESS: ONE SITCUM PLAZA TACOMA, WA 98401-1837			
				DRAWING SCALE: AS NOTED			
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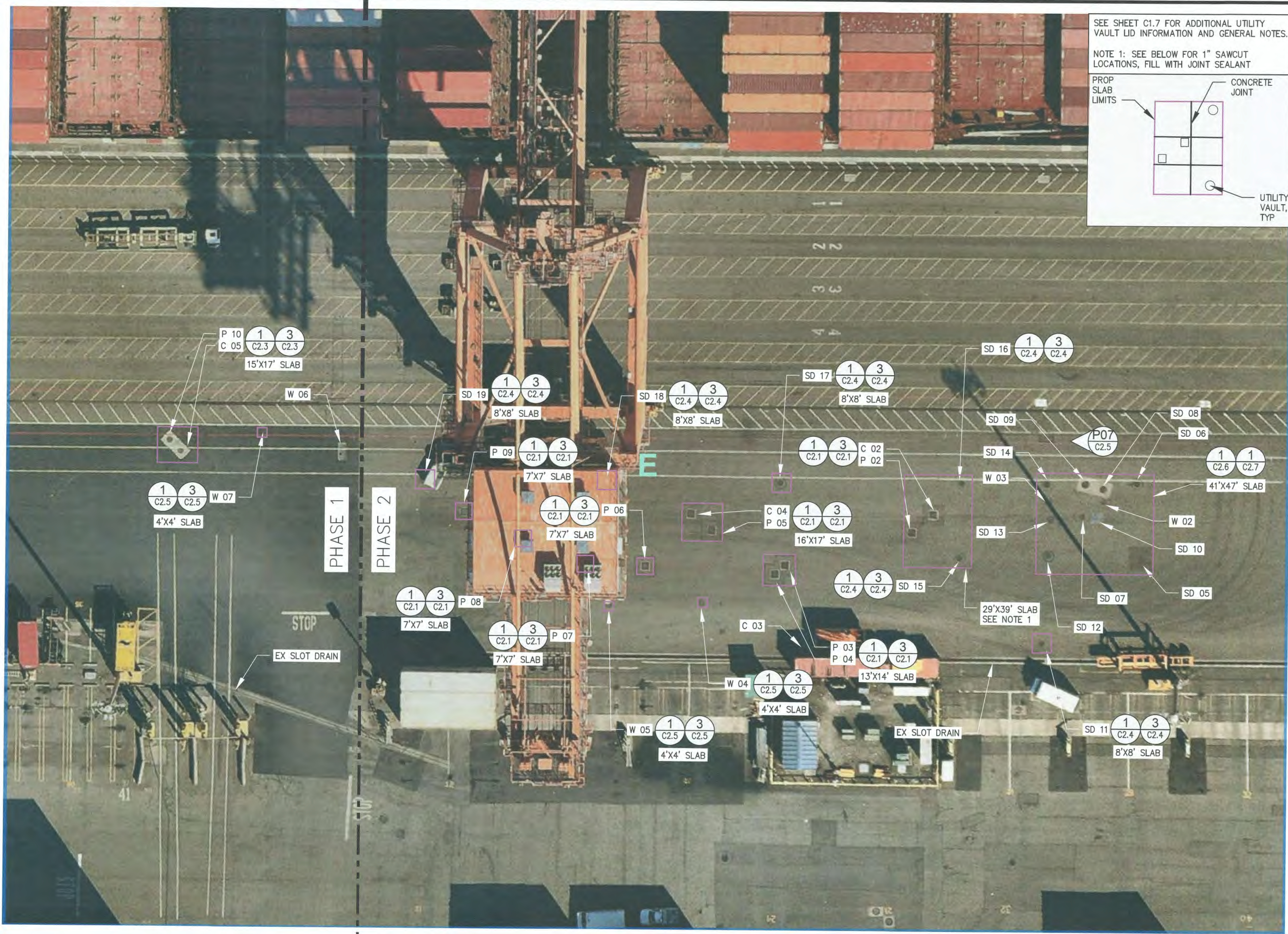


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SEE SHEET C1.7 FOR ADDITIONAL UTILITY VOLT LID INFORMATION AND GENERAL NOTES.

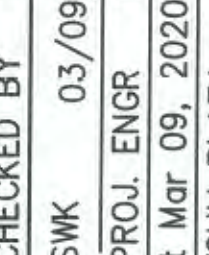
NOTE 1: SEE BELOW FOR 1" SAWCUT LOCATIONS, FILL WITH JOINT SEALANT

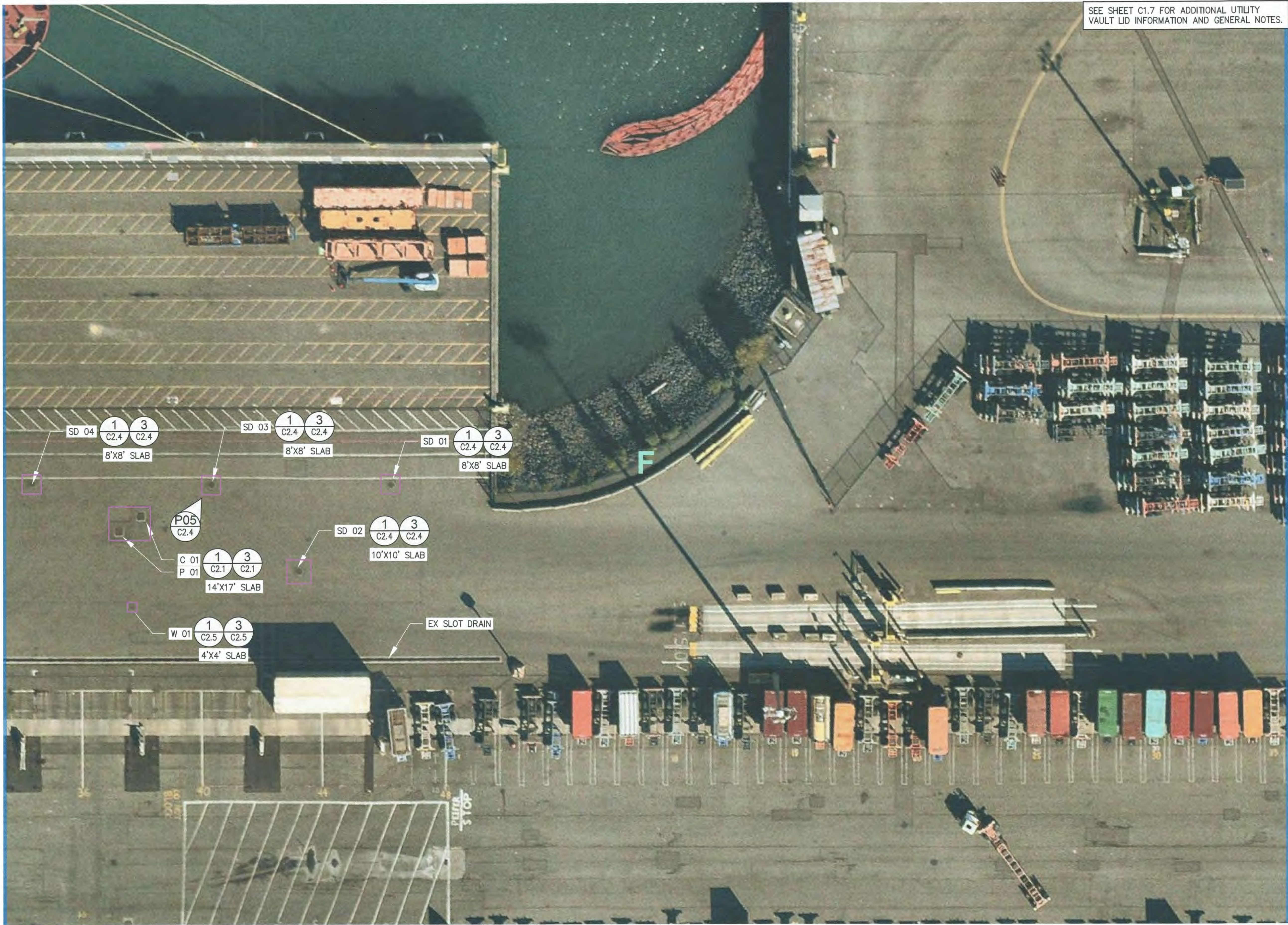
PROP
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UTILITY
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6641 C1.5 9 OF 19										WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES SITE PLAN AREA E										APPROVED:  RLO 03/09/2020										CHECKED BY: SWK 03/09/2020										DATE: 03/09/2020										kppff										2407 North 31st Street, Suite 100 Tacoma, Washington 98407 (253) 536-0150 Fax (253) 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6641 C1.6 10 OF 19	WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES SITE PLAN AREA F				APPROVED:	RLO	03/09/2020	
	CONT/CONS: 071347	TOWNSHIP: 21N	RANGE: 03E	SECTION: 35		CHECKED BY	DATE	
M. ID: 201090.01	DAT-HRZ:	VERT:		DIRECTOR ENG. DATE	SWK	03/09/2020		
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1. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD AND NOTIFY ENGINEER IF ACTUAL DIMENSIONS DIFFER FROM THOSE SHOWN.
2. DEPTH OF CONCRETE SLAB TO MATCH EXISTING DISTANCE FROM EXISTING GRADE TO TOP OF VAULT WALLS (SEE C1.7). WHERE DEPTH UNKNOWN, ASSUME 13 INCH DEPTH FOR BIDDING PURPOSES.
3. SLAB DIMENSIONS SHOWN ARE TYPICAL. SEE SITE PLAN SHEETS FOR SLAB DIMENSIONS AT EACH LOCATION.
4. CONCRETE SHALL BE PLACED BELOW THE MINIMUM DEPTH OF CONCRETE SLAB AS REQUIRED TO ACHIEVE GRADES.
5. IF SOFT SPOTS IN EXISTING SUBGRADE ARE FOUND, NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
6. EXTEND TOP BARS TO 2" CLR OF FRAME, EXTEND BOTTOM BARS TO 2" CLR OF SLAB OPENING OR FRAME.

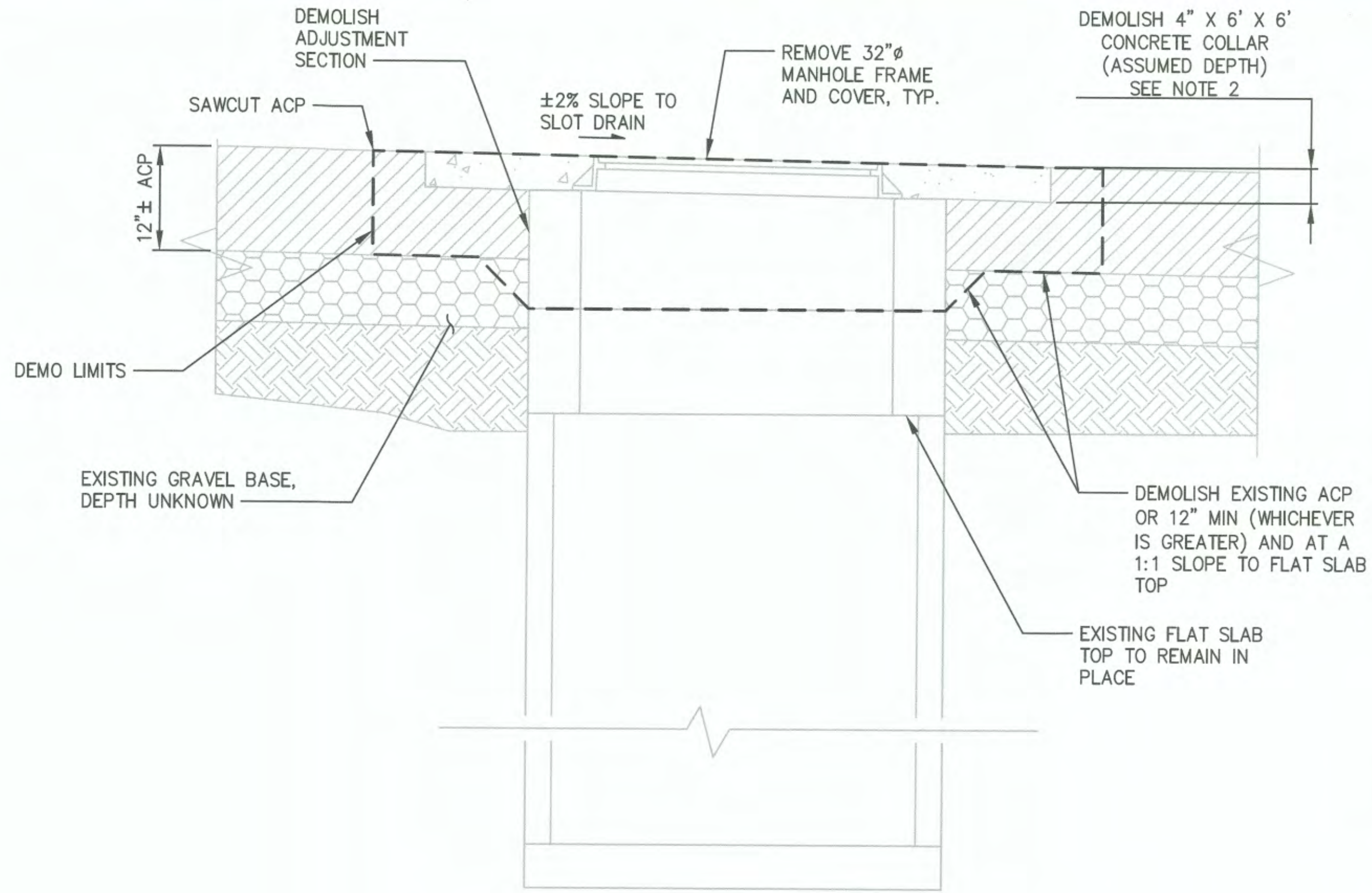




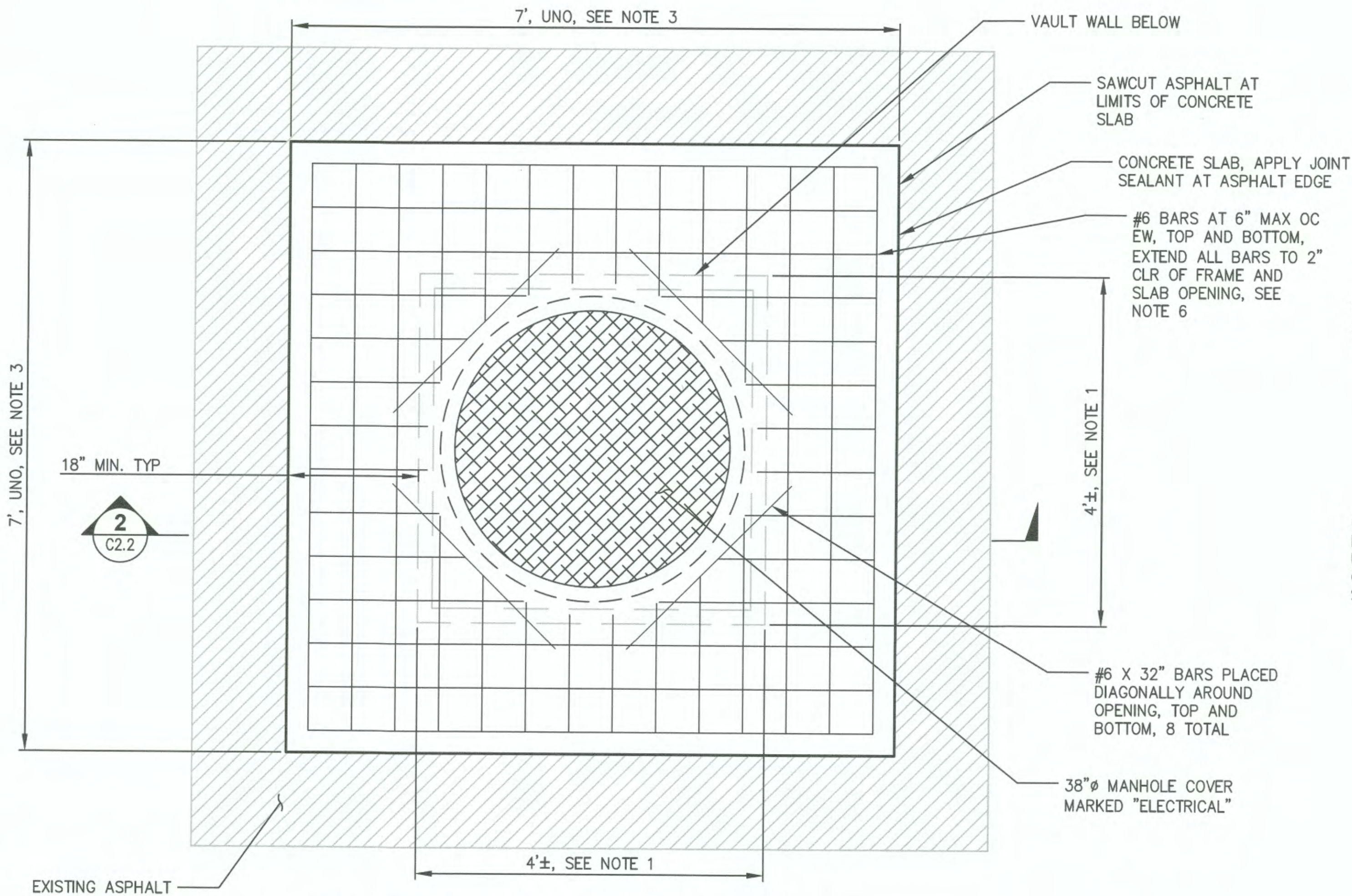
P02
C1.4
TYPICAL POWER VAULT

NOTES

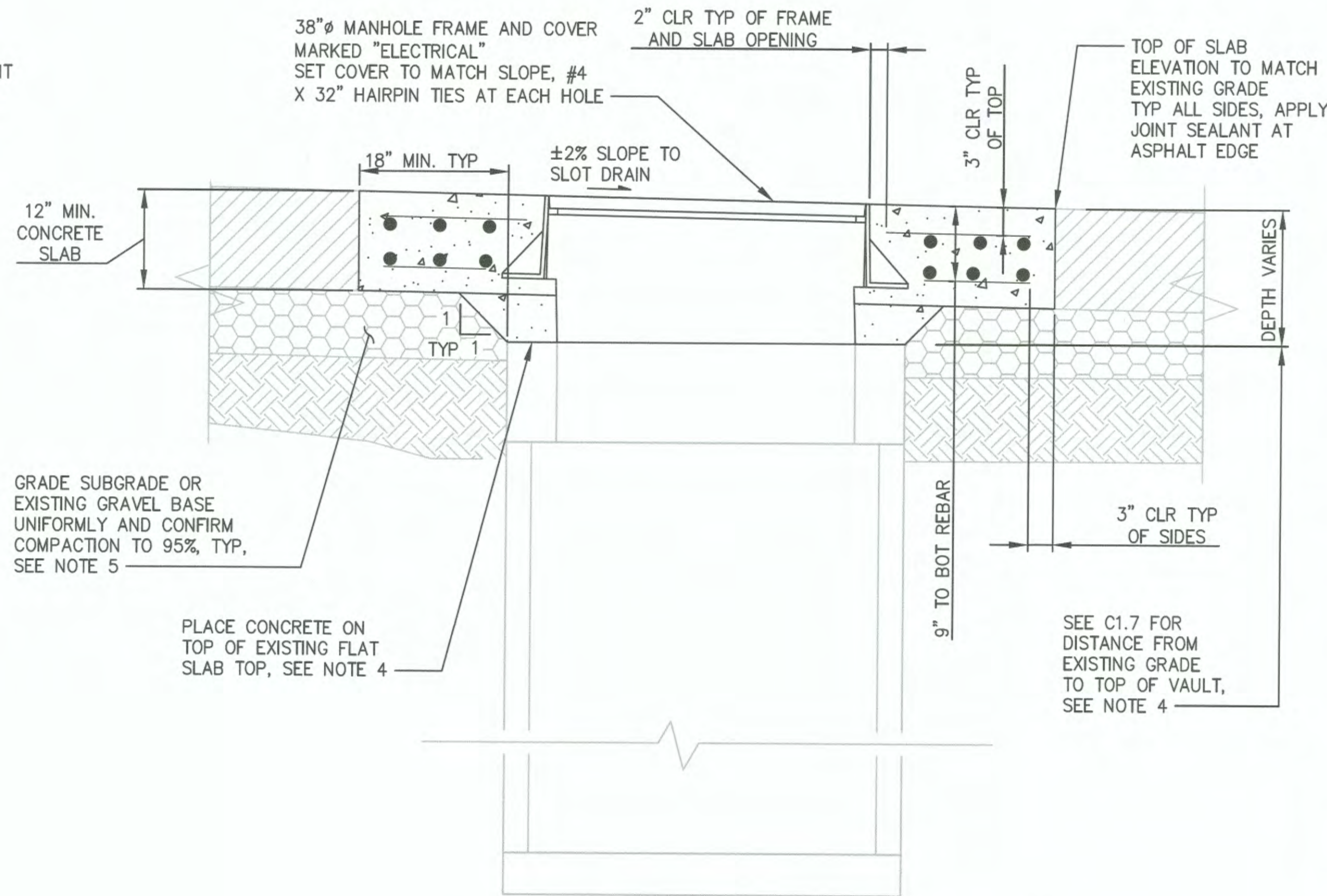
1. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD AND NOTIFY ENGINEER IF ACTUAL DIMENSIONS DIFFER FROM THOSE SHOWN.
2. LOCATIONS WHERE CONCRETE COLLAR DIMENSIONS DIFFER FROM TYPICAL DIMENSIONS SHOWN ON EXISTING CONDITION SECTION ARE NOTED ON SHEET C1.7.
3. SLAB DIMENSIONS ARE TYPICAL. SEE SITE PLAN SHEETS FOR SLAB DIMENSIONS AT EACH LOCATION.
4. CONCRETE SHALL BE PLACED BELOW THE MINIMUM DEPTH OF CONCRETE SLAB AS REQUIRED TO ACHIEVE GRADES.
5. IF SOFT SPOTS IN EXISTING SUBGRADE ARE FOUND, NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
6. EXTEND TOP BARS TO 2" CLR OF FRAME, EXTEND BOTTOM BARS TO 2" CLR OF SLAB OPENING OR FRAME.



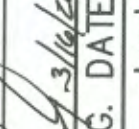
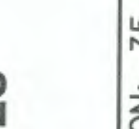
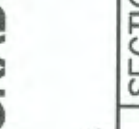
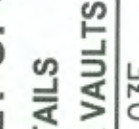
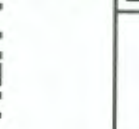
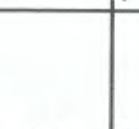
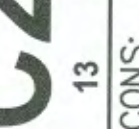
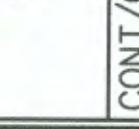
1
C1.4
SECTION - EXISTING CONDITION
SCALE: 1" = 1'



3
C1.4
PLAN - PROPOSED CONDITION
SCALE: 1" = 1'



2
C2.2
SECTION - PROPOSED CONDITION
SCALE: 1" = 1'

6641 C2.2 13 OF 19	WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES DETAILS POWER VAULTS		APPROVED: 	RLO	03/09/2020
	CONTRACT/CONS: 071347	TOWNSHIP: 21N	RANGE: 03E	SECTION: 35	DATE: 03/09/2020
PHASE: BID SET	DATE-HRZ: 201090.01	VERT: 1	PRINTED BY: rambert	PROJ. ENGR. DATE: 03/09/2020	DATE: 03/09/2020
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TACOMA, WA 98401-1837			PORT ADDRESS: ONE SITCOM PLAZA	REVISION: 	DATE: 03/09/2020
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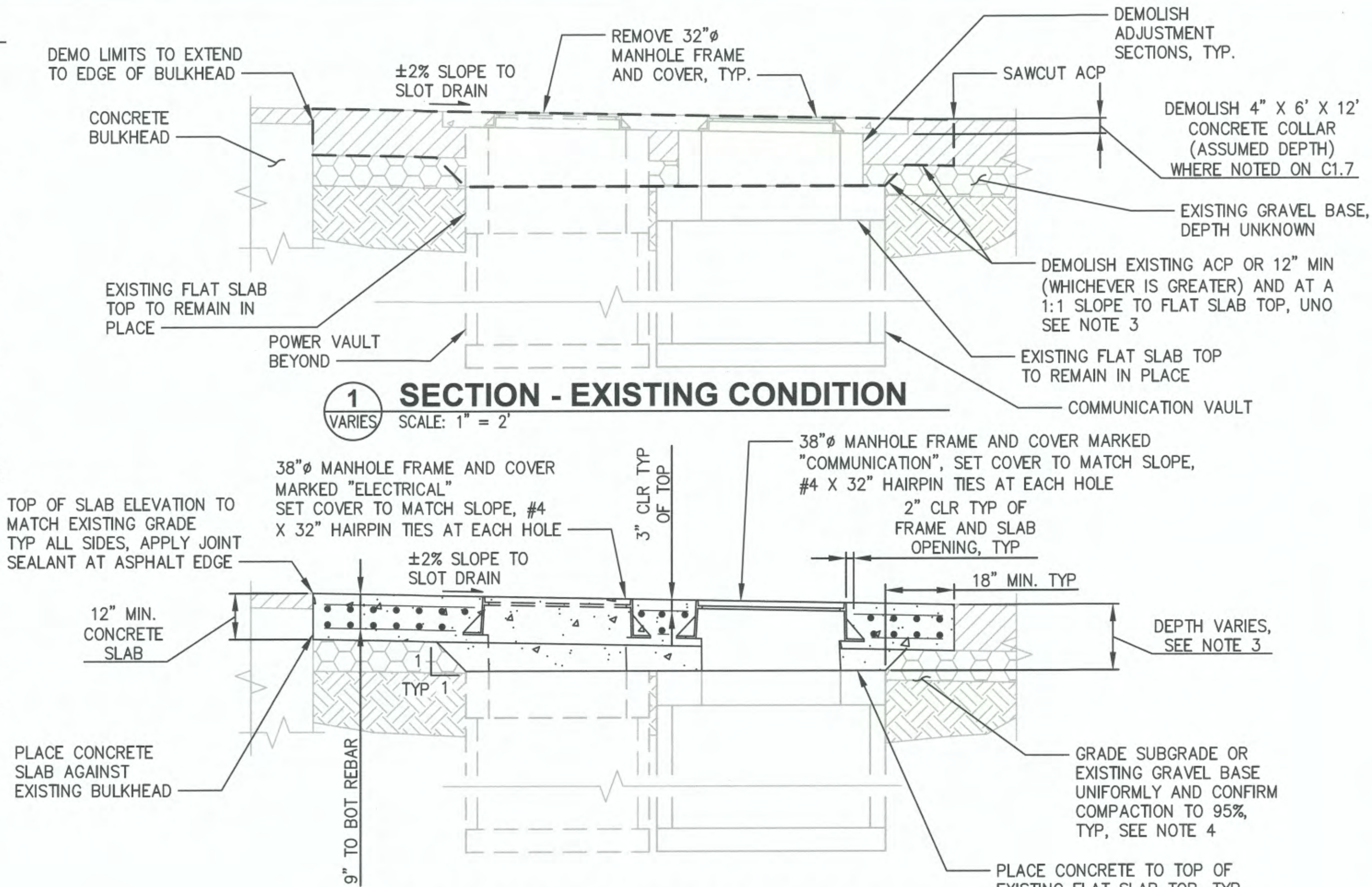
P03
C1.4 **TYPICAL EXISTING CONDITION**



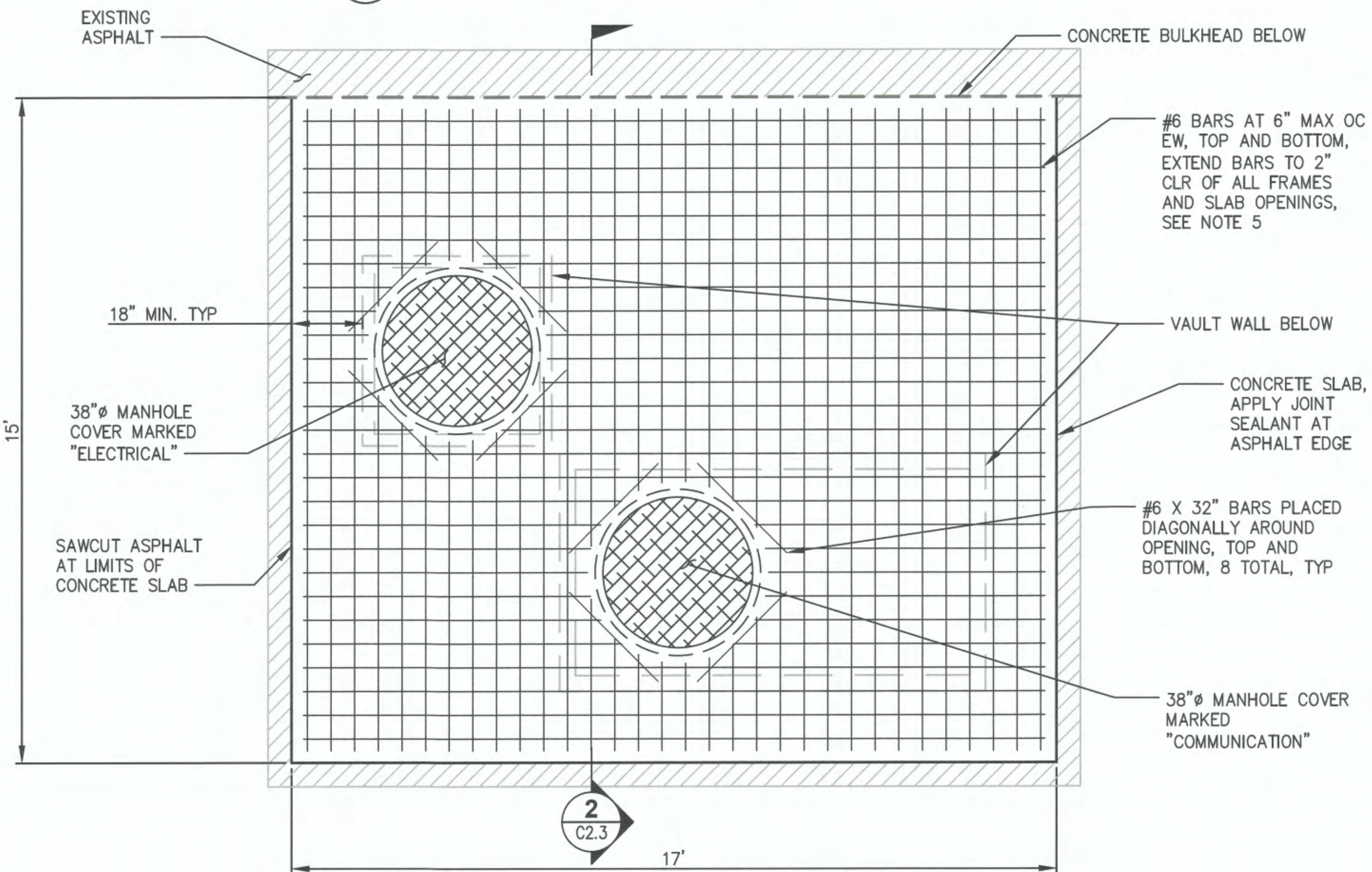
P04
C1.4 **EXAMPLE FINAL CONDITION**

NOTES

1. CONTRACTOR TO ASSUME CONCRETE SLAB 15' X 17' FOR BIDDING PURPOSES. DIMENSIONS ARE APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD AND NOTIFY ENGINEER IF ACTUAL DIMENSIONS DIFFER FROM THOSE SHOWN.
2. LOCATIONS WHERE CONCRETE COLLAR DIMENSIONS DIFFER FROM TYPICAL DIMENSIONS SHOWN ON EXISTING CONDITION SECTION ARE NOTED ON SHEET C1.7.
3. CONCRETE SHALL BE PLACED BELOW THE MINIMUM DEPTH OF CONCRETE SLAB AS REQUIRED TO ACHIEVE GRADES. IF DEPTH FOR BOTH VAULTS EXCEEDS 18", MAINTAIN 6" OF EXISTING GRAVEL BASE OR FILL ABOVE FLAT SLAB TOP AND LIMIT DEMO TO 12"± AS NEEDED TO PLACE CONCRETE SLAB.
4. IF SOFT SPOTS IN EXISTING SUBGRADE ARE FOUND, NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
5. EXTEND TOP BARS TO 2" CLR OF FRAME, EXTEND BOTTOM BARS TO 2" CLR OF SLAB OPENING OR FRAME.



2
C2.3 **SECTION - PROPOSED CONDITION**
SCALE: 1" = 2'



3
VARIES **PLAN - PROPOSED CONDITION**
SCALE: 1" = 2'

6641										C2.3										14 OF 19										CONTRACT/CONS: 071347										M. ID: 201090.01										PHASE: BID SET										DRAWING SCALE: AS NOTED										WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES DETAILS										APPROVED: 										RLO: 03/09/2020										CHECKED BY: SWK										DATE: 03/09/2020										PROJECT: ADJACENT POWER AND COMMUNICATION VAULTS										TOWNSHIP: 21N										RANGE: 03E										SECTION: 35										DATE: 03/09/2020										PRINTED BY: rlambert										DATE: Mar 09, 2020										PORT ADDRESS: ONE SITCUM PLAZA										TACOMA, WA 98401-1837									
6641										C2.3										14 OF 19										CONTRACT/CONS: 071347										M. ID: 201090.01										PHASE: BID SET										DRAWING SCALE: AS NOTED										WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES DETAILS										APPROVED: 										RLO: 03/09/2020										CHECKED BY: SWK										DATE: 03/09/2020										PROJECT: ADJACENT POWER AND COMMUNICATION VAULTS										TOWNSHIP: 21N										RANGE: 03E										SECTION: 35										DATE: 03/09/2020										PRINTED BY: rlambert										DATE: Mar 09, 2020										PORT ADDRESS: ONE SITCUM PLAZA										TACOMA, WA 98401-1837									

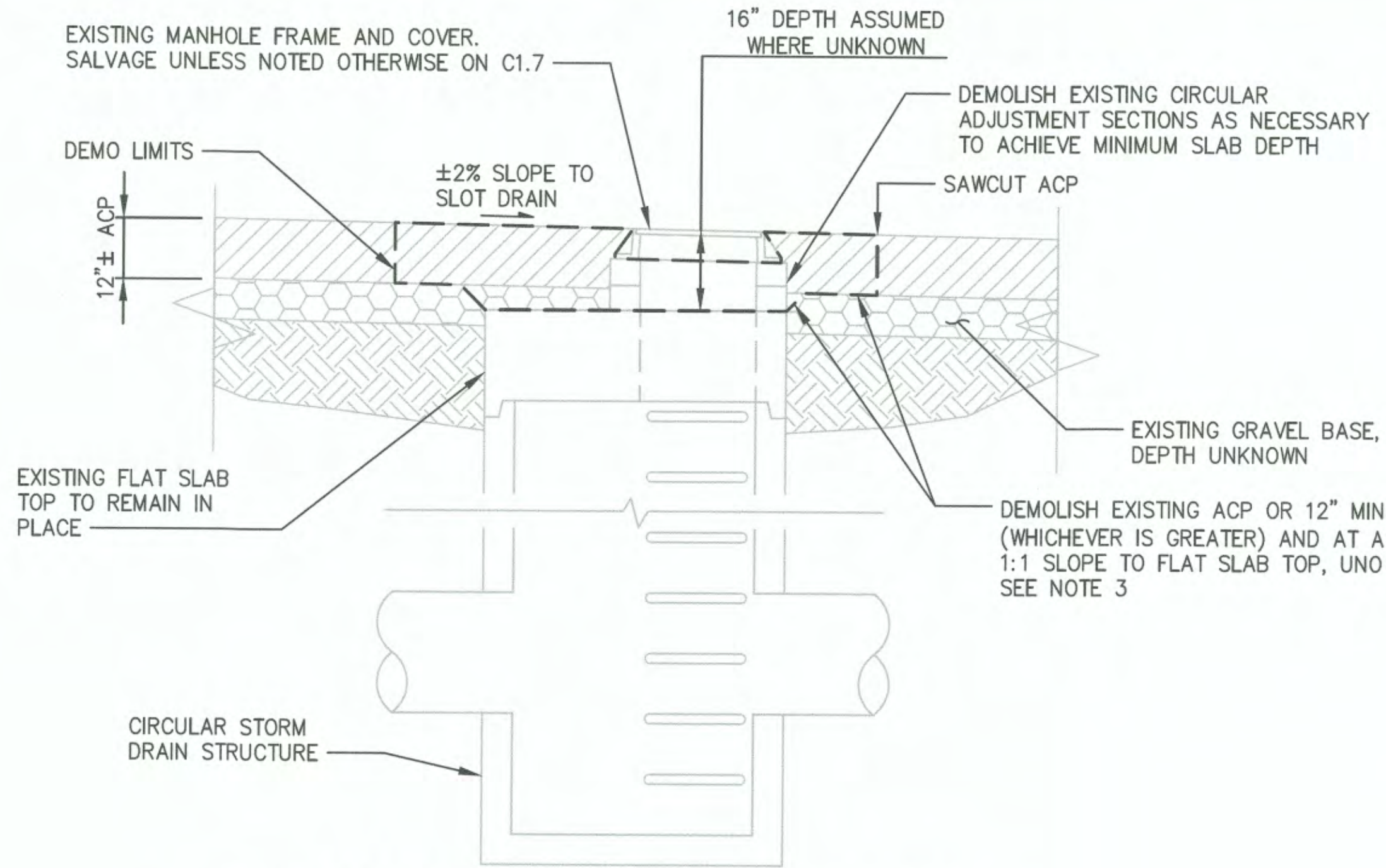


P05
C1.6

TYPICAL CATCH BASIN

NOTES

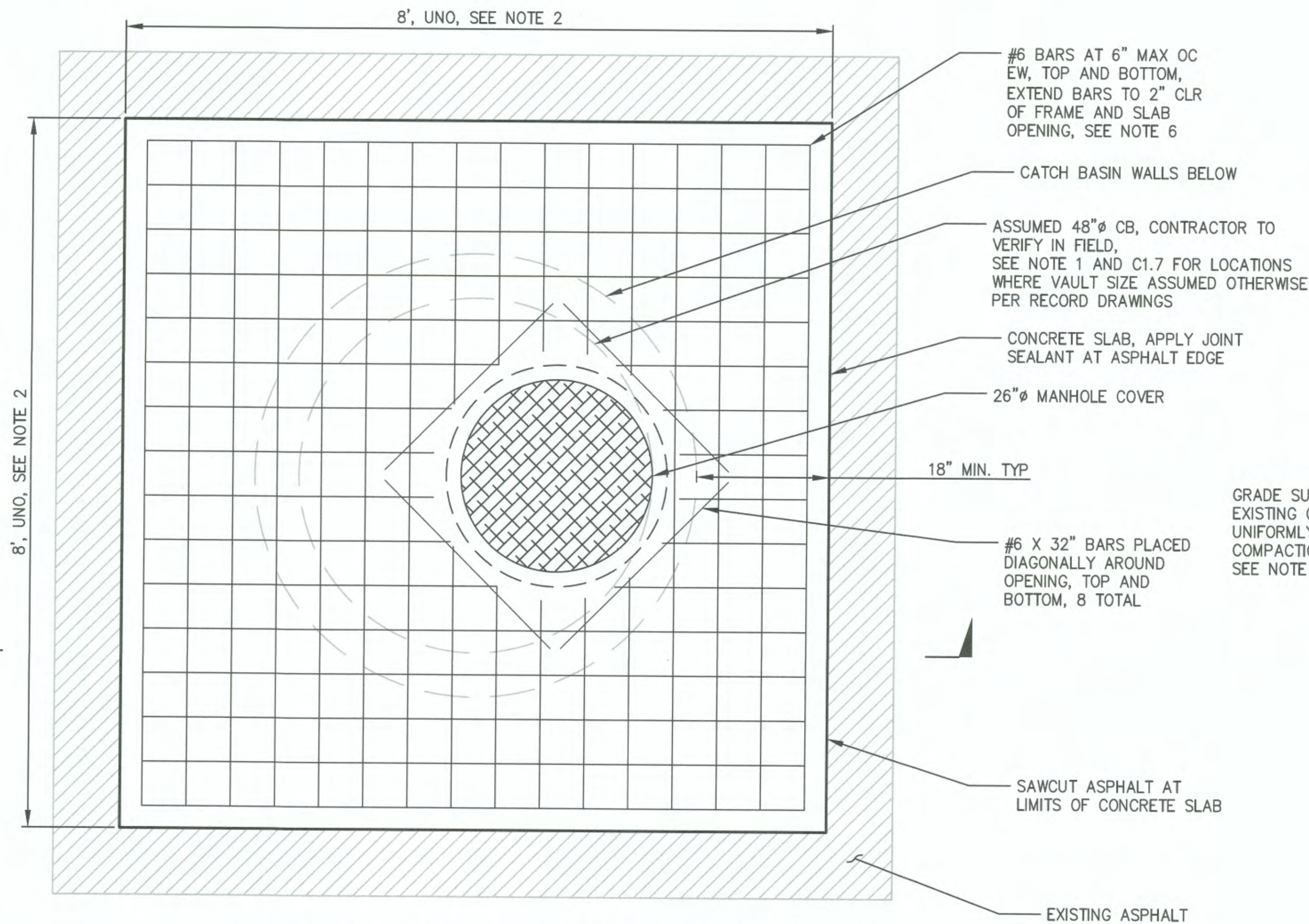
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2. SLAB DIMENSIONS SHOWN ARE TYPICAL. SEE SITE PLAN SHEETS FOR SLAB DIMENSIONS AT EACH LOCATION.
3. SEE C1.7 FOR DISTANCE FROM EXISTING GRADE TO TOP OF VAULT, WHERE UNKNOWN, ASSUME 16" DEPTH.
4. CONCRETE SHALL BE PLACED BELOW THE MINIMUM DEPTH OF CONCRETE SLAB AS REQUIRED TO ACHIEVE GRADES. IF DEPTH FOR VAULT EXCEEDS 18", MAINTAIN 6" OF EXISTING GRAVEL BASE OR FILL ABOVE FLAT SLAB TOP AND LIMIT DEMO TO 12"± AS NEEDED TO PLACE CONCRETE SLAB.
5. IF SOFT SPOTS IN EXISTING SUBGRADE ARE FOUND, NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
6. EXTEND TOP BARS TO 2" CLR OF FRAME, EXTEND BOTTOM BARS TO 2" CLR OF SLAB OPENING OR FRAME.



1
VARIES

SECTION - EXISTING CONDITION

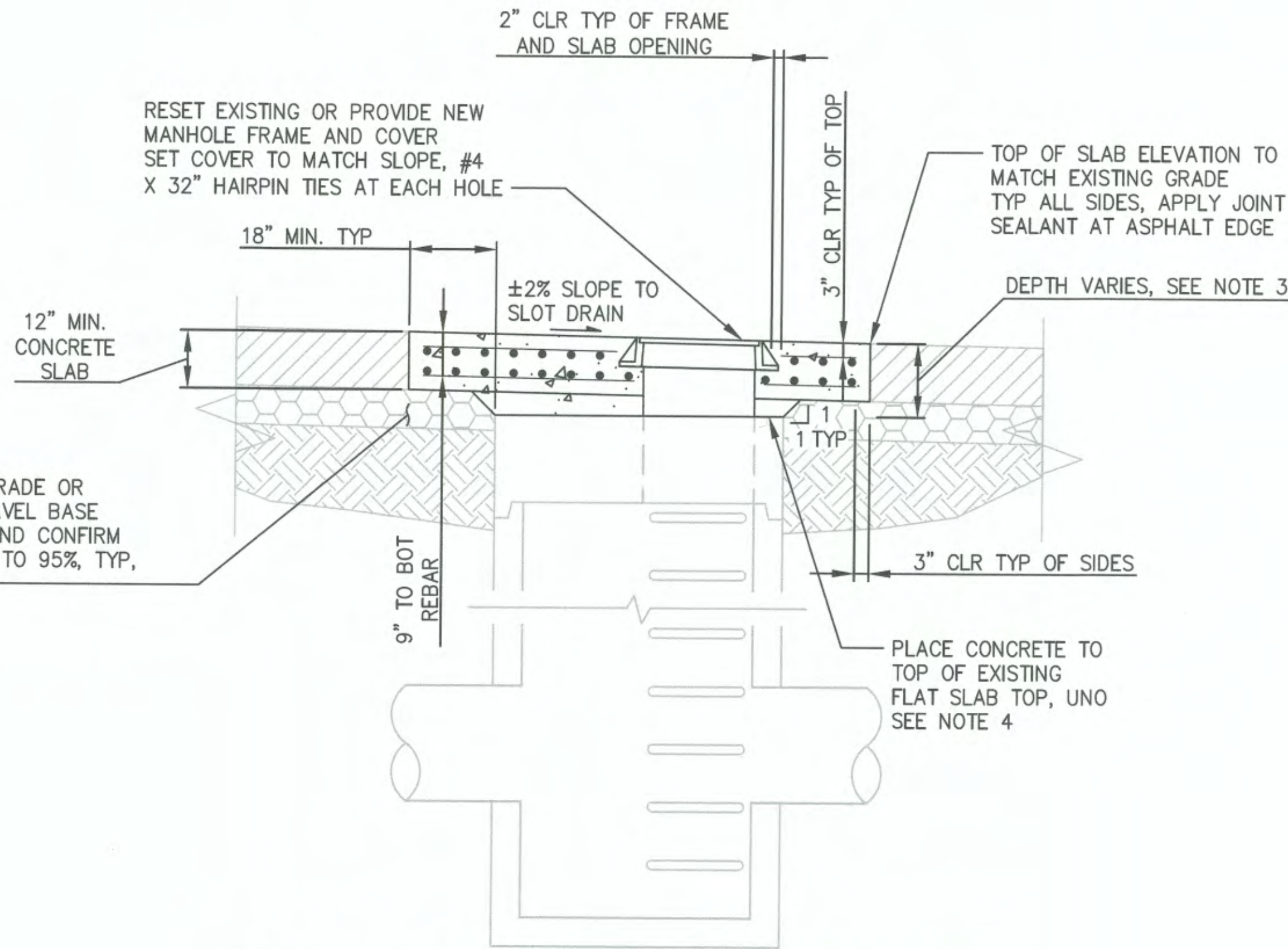
SCALE: 1" = 2'



3
VARIES

PLAN - PROPOSED CONDITION

SCALE: 1" = 1'



2
C2.4

SECTION - PROPOSED CONDITION

SCALE: 1" = 2'

6641

C2.4

15 OF 19

CONT/CONS: 071347

M. ID: 201090.01

PHASE: BID SET

WASHINGTON UNITED TERMINALS

UTILITY VAULT UPGRADES

DETAILS

STORM DRAIN CATCH BASINS

TOWNSHIP: 21N

DAT-HRZ: 201090.01

PARCEL:

RANGE: 03E

SECTION: 35

VERT:

DRAWING SCALE: AS NOTED

APPROVED:

DIRECTOR

DATE: 03/09/2020

PROJ. ENGR. DATE: 03/09/2020

PRINTED BY: rlambert

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

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03/09/2020

CHECKED BY

DATE

SWK

03/09/2020

PROJ. ENGR

DATE

PRINTED BY

PORT ADDRESS: ONE SITCUM PLAZA

TACOMA, WA 98401-1837

Port of Tacoma

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Tacoma, Washington 98407

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P.O. BOX 1837 TACOMA, WA 98401 (253)396-5441

kpff

2407 North 31st Street, Suite 100

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(253) 396-0150 Fax (253) 396-0162

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EXPIRATION DATE: 12/31/2025

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REVISION:

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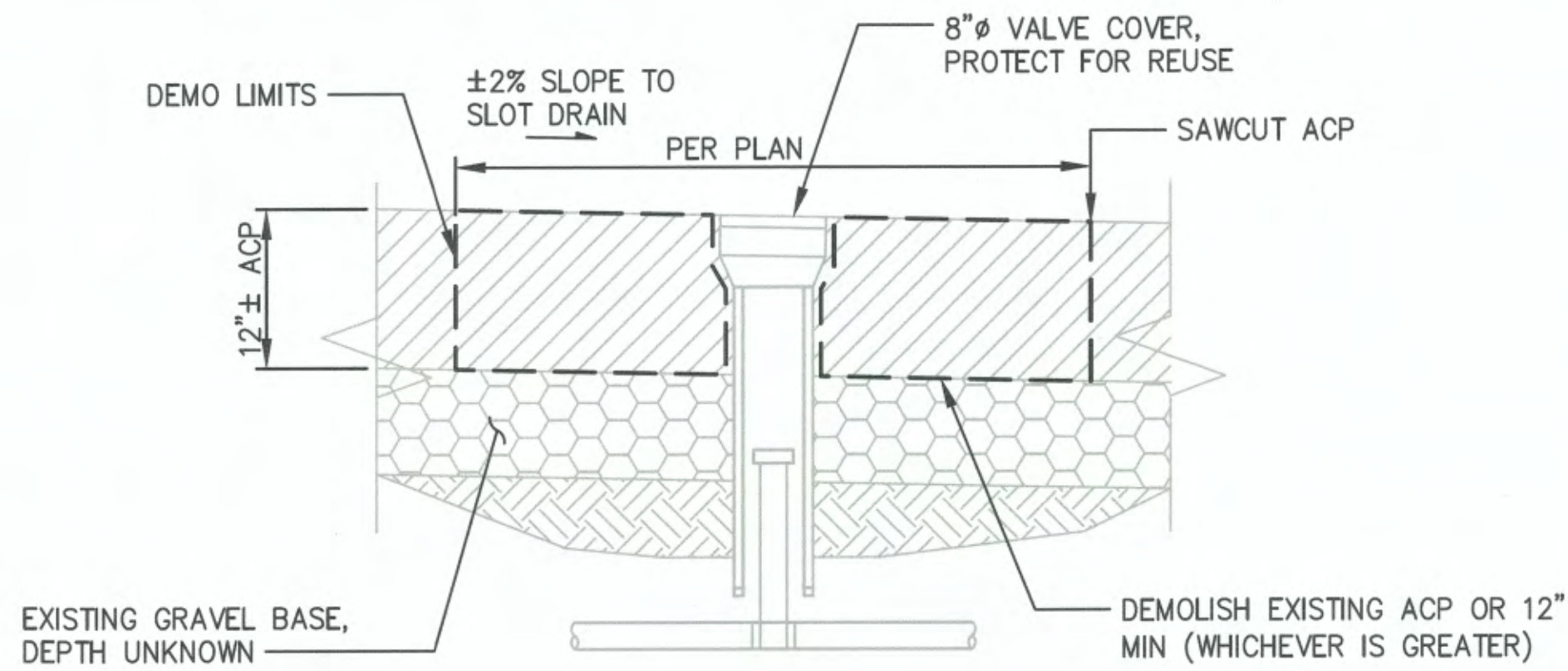
P06
C1.2 **TYPICAL WATER VALVE**



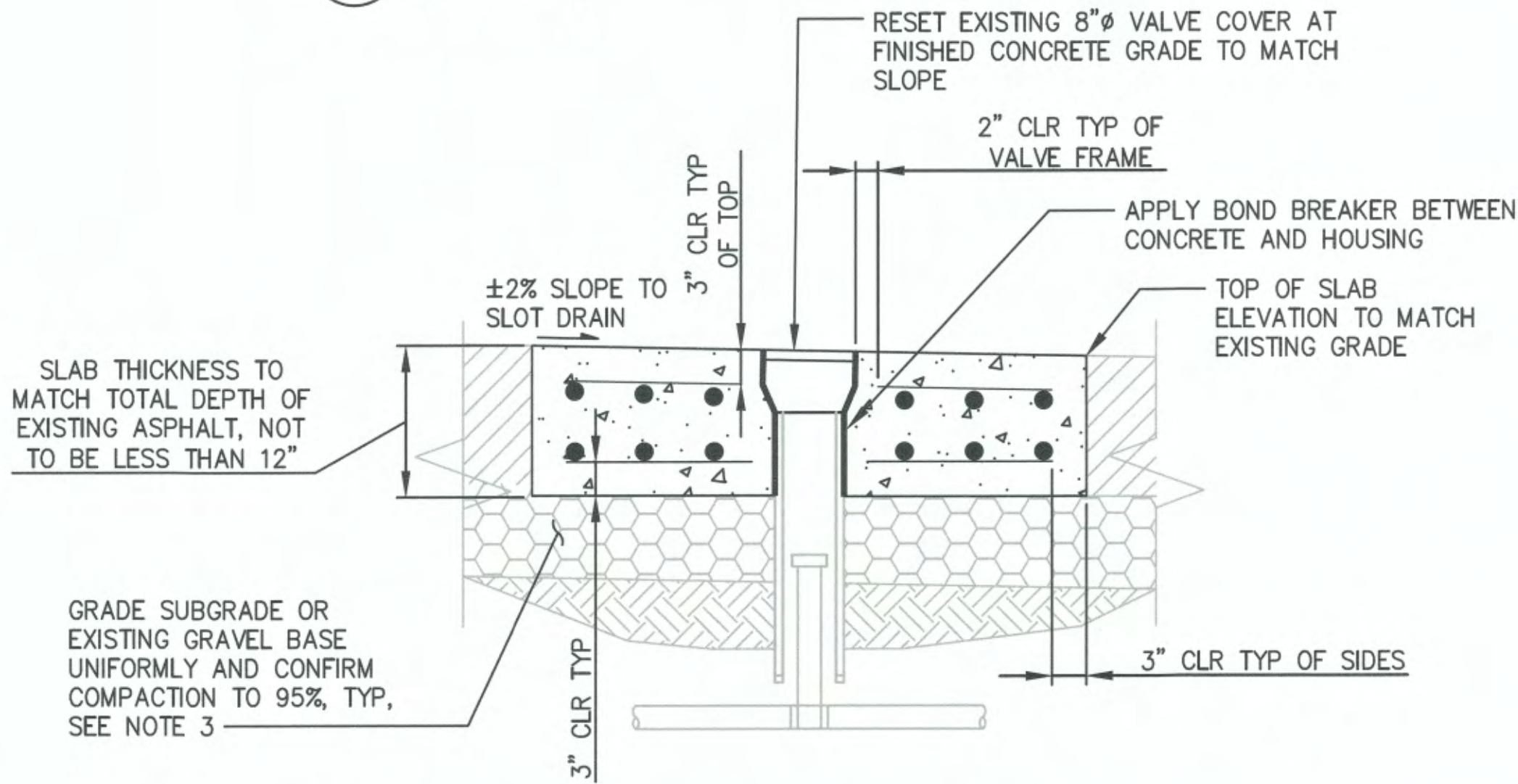
P07
C1.5 **SUBSURFACE BULKHEAD LOCATION**

NOTES

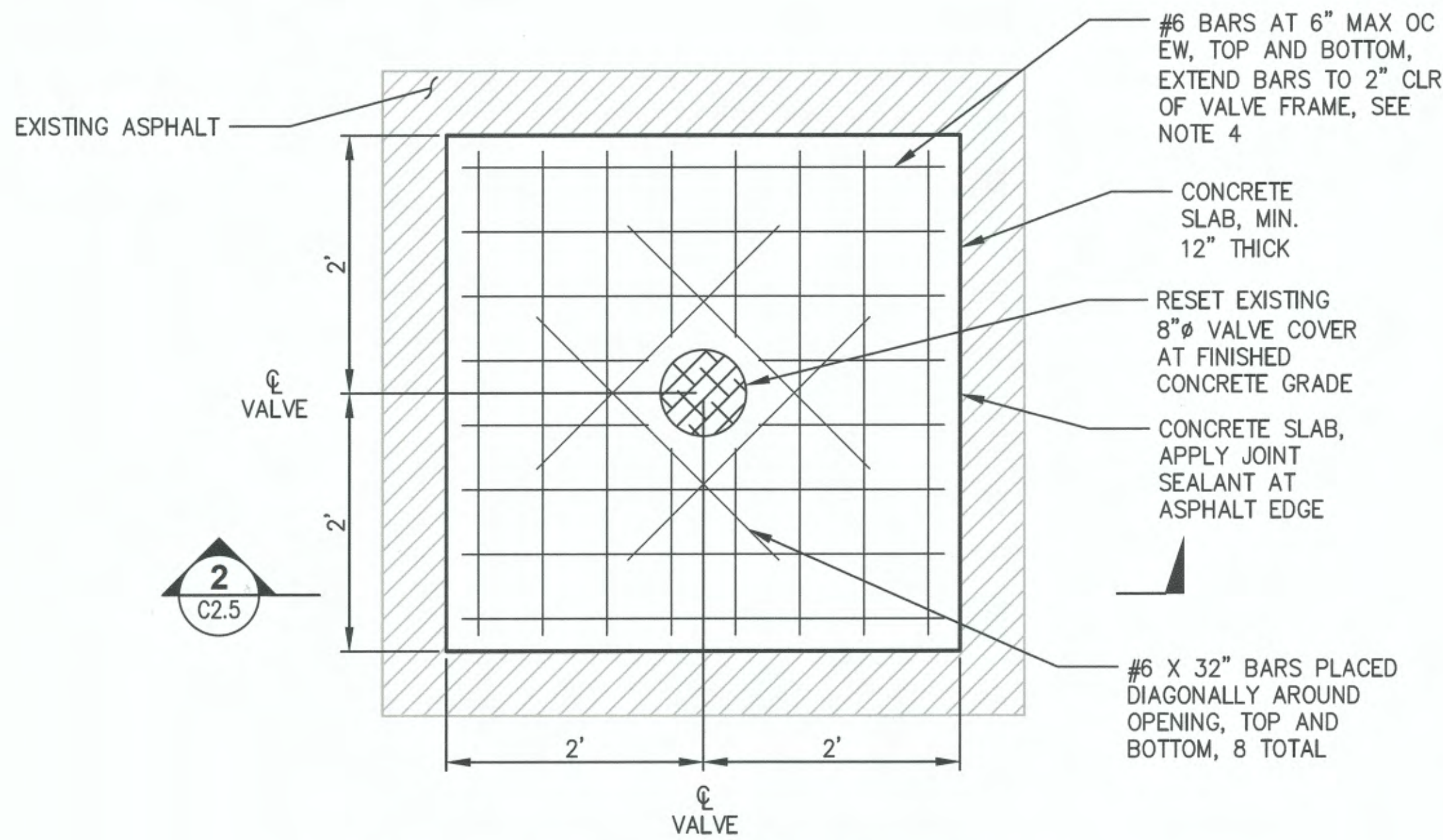
1. EXACT DEPTH AND CONDITIONS OF VALVE CONNECTION UNKNOWN.
2. PROTECT EXISTING COVER FOR REUSE.
3. IF SOFT SPOTS IN EXISTING SUBGRADE ARE FOUND, NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
4. EXTEND TOP AND BOTTOM BARS TO 2" CLR OF VALVE FRAME.



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

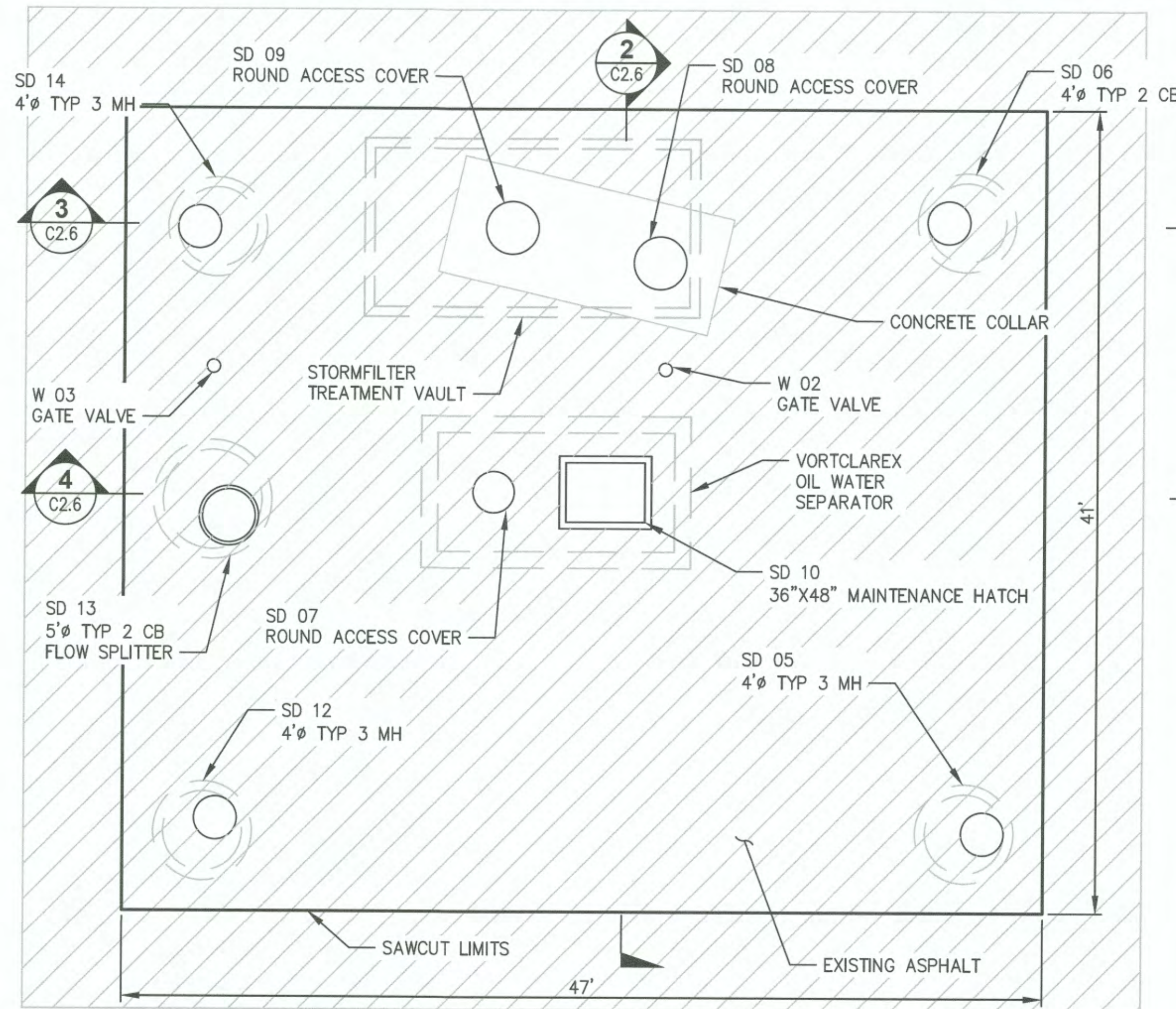


2
C2.5 **SECTION - PROPOSED CONDITION**
SCALE: 1" = 1'

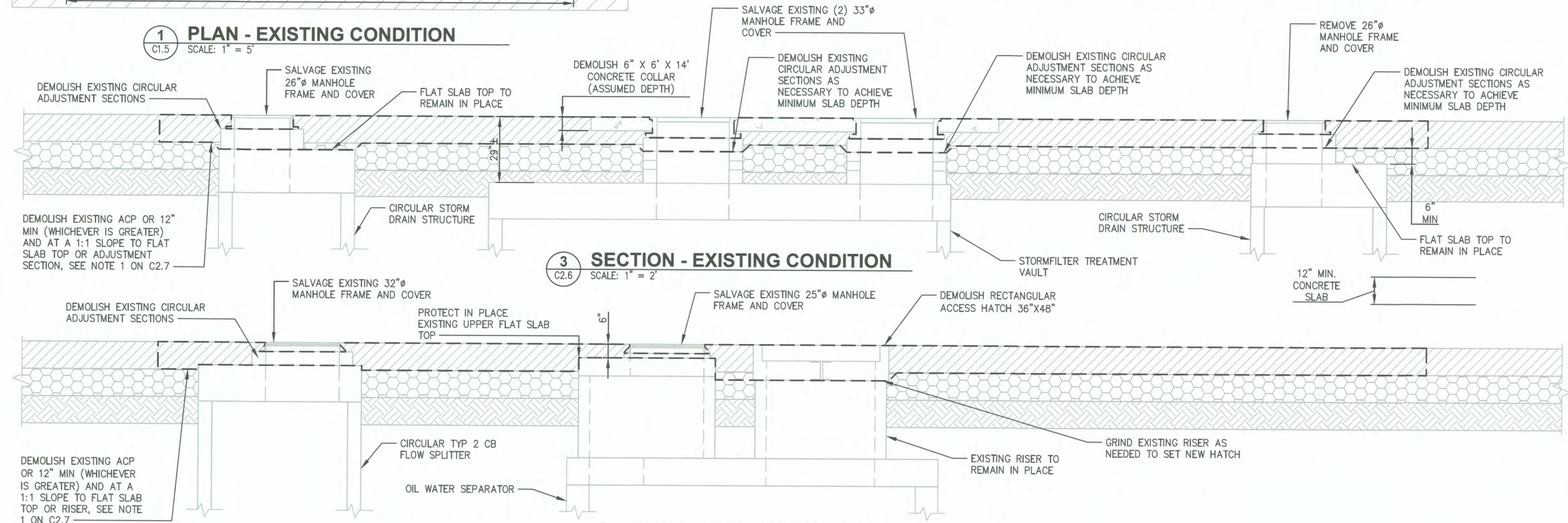


3
VARIES **PLAN - PROPOSED CONDITION**
SCALE: 1" = 1'

6641										WASHINGTON UNITED TERMINALS										APPROVED:										RLO 03/09/2020									
C2.5										UTILITY VAULT UPGRADES																				CHECKED BY DATE									
16										DETAILS																				SWK 03/09/2020									
OF 19										WATER VALVES																				PROJ. ENGR DATE									
CONTRACT/CONS: 071347										TOWNSHIP: 21N										RANGE: 03E										SECTION: 35									
M. ID: 201090.01										DAT-HRZ:										VERT:										PRINTED BY: rlamert Mar 09, 2020									
PHASE:										BID SET										PARCEL:										PORT ADDRESS: ONE SITCUM PLAZA									
																														TACOMA, WA 98401-1837									

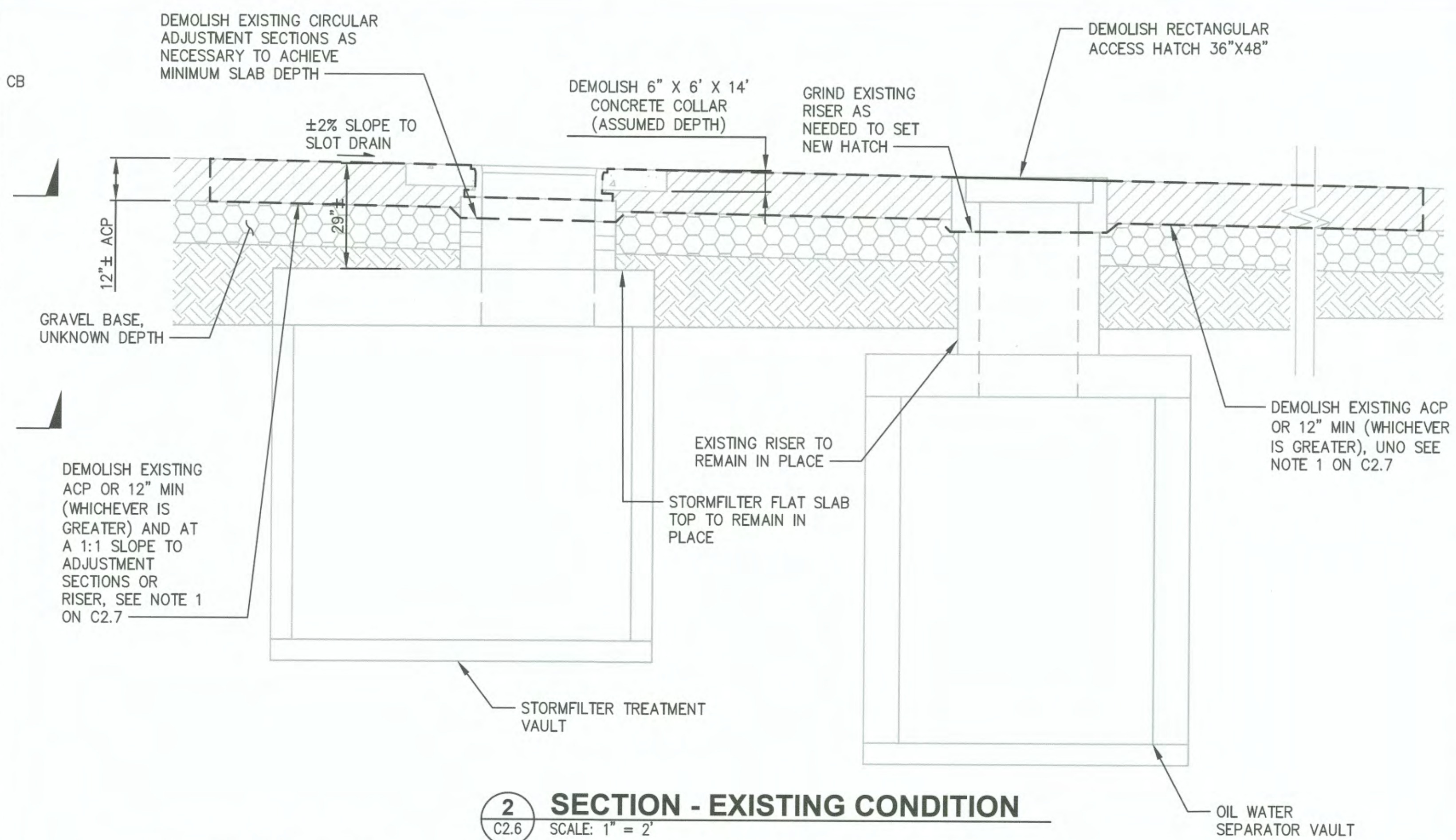


1 PLAN - EXISTING CONDITION
C1.5 SCALE: 1" = 5'

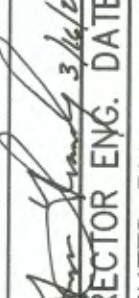


3 SECTION - EXISTING CONDITION
C2.6 SCALE: 1" = 2'

4 SECTION - EXISTING CONDITION
C2.6 SCALE: 1" = 2'



2 SECTION - EXISTING CONDITION
C2.6 SCALE: 1" = 2'

6641 C2.6 17 OF 19	WASHINGTON UNITED TERMINALS UTILITY VAULT UPGRADES DETAILS				RLO	03/09/2020	DATE
	COMBINED SLAB EXISTING CONDITIONS	SWK	03/09/2020	DATE	CHECKED BY	DATE	
CON/CONS: 071347	TOWNSHIP: 21N	RANGE: 03E	SECTION: 35	PRINTED BY: Lambert Mar 09, 2020	PROJECT ENGR	DATE	
M. ID: 201090.01	DAT-HRZ:	VERT:	PARCEL:	PORT ADDRESS: ONE SITCUM PLAZA	BY:	DATE	
PHASE: BID SET	DRAWING SCALE: AS NOTED	TACOMA, WA 98401-1837	APPROVED:  DIRECTOR				DATE
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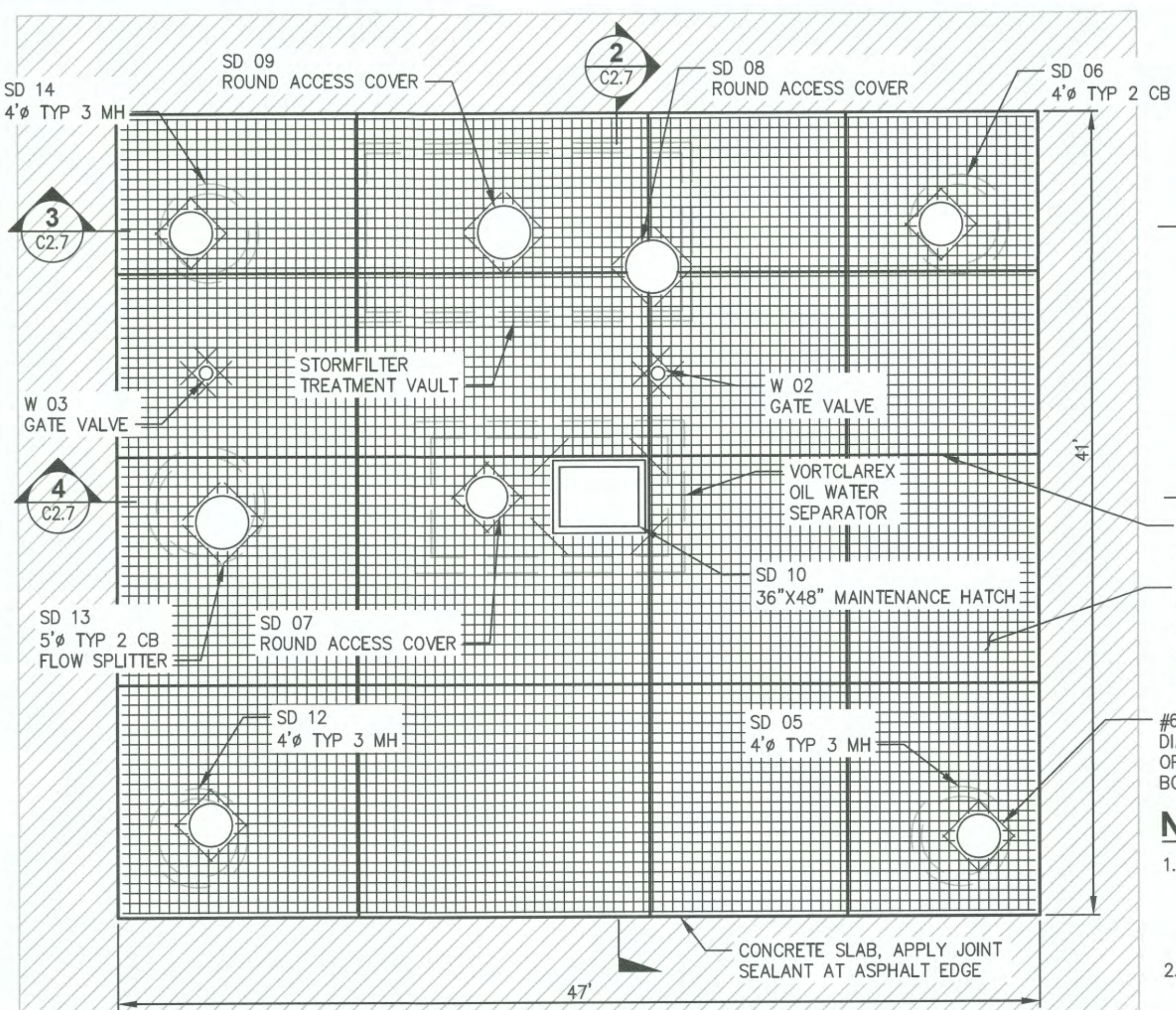


MADE IN WASHINGTON
K. J. P. P. P.
REGISTERED PROFESSIONAL ENGINEER
NO. 22711
EXPIRATION DATE 12/31/2024



Port of Tacoma
P.O. BOX 1837 TACOMA, WA 98401 (203) 396-0161

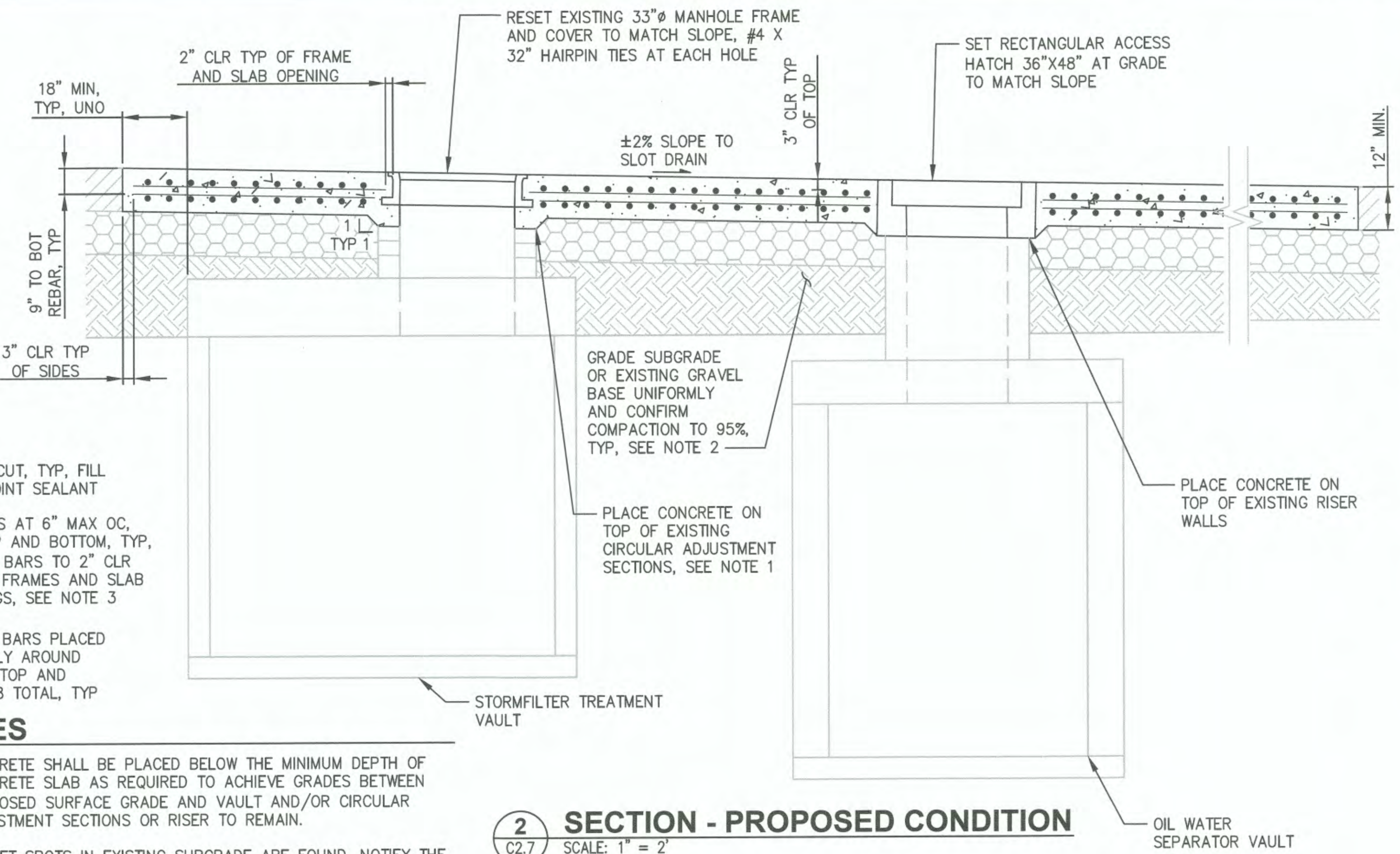
PORT OF TACOMA FILE: N:\2019\1900209 POT WUT Utility Lid Repairs\Part 3 - KPFF Design\3.13 Drawings\Current\C2.1 - C2.8 (DETAILS)



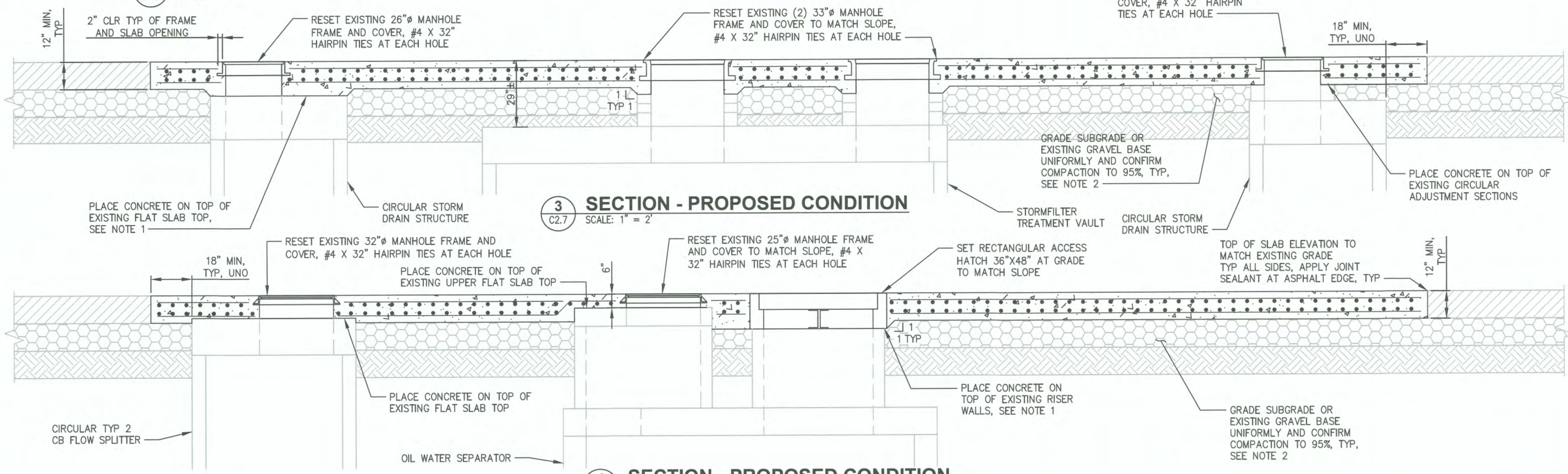
1 PLAN - PROPOSED CONDITION
C1.5 SCALE: 1" = 5'

NOTES

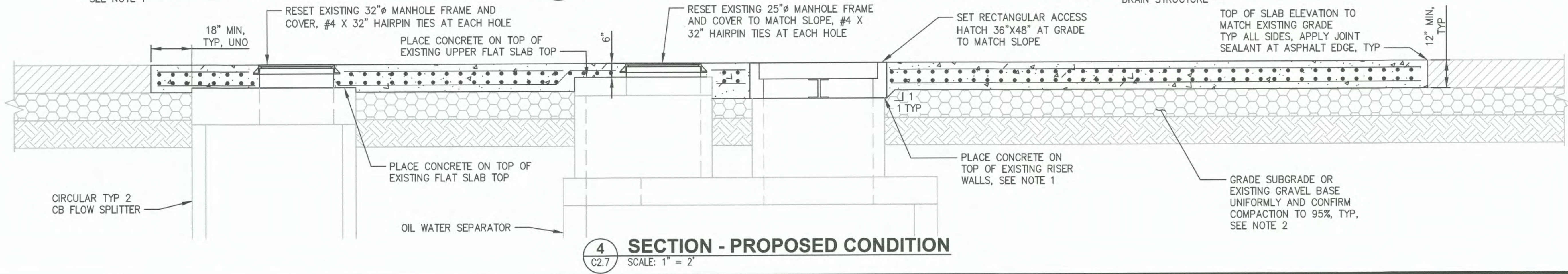
1. CONCRETE SHALL BE PLACED BELOW THE MINIMUM DEPTH OF CONCRETE SLAB AS REQUIRED TO ACHIEVE GRADES BETWEEN PROPOSED SURFACE GRADE AND VAULT AND/OR CIRCULAR ADJUSTMENT SECTIONS OR RISER TO REMAIN.
2. IF SOFT SPOTS IN EXISTING SUBGRADE ARE FOUND, NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
3. EXTEND TOP BARS TO 2" CLR OF FRAME, EXTEND BOTTOM BARS TO 2" CLR OF SLAB OPENING OR FRAME.



2 SECTION - PROPOSED CONDITION
C2.7 SCALE: 1" = 2'



3 SECTION - PROPOSED CONDITION
C2.7 SCALE: 1" = 2'



4 SECTION - PROPOSED CONDITION
C2.7 SCALE: 1" = 2'

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			TACOMA, WA	98401-1837

WASHINGTON UNITED TERMINALS
UTILITY VAULT UPGRADES
DETAILS

6641
C2.7
18 OF 19

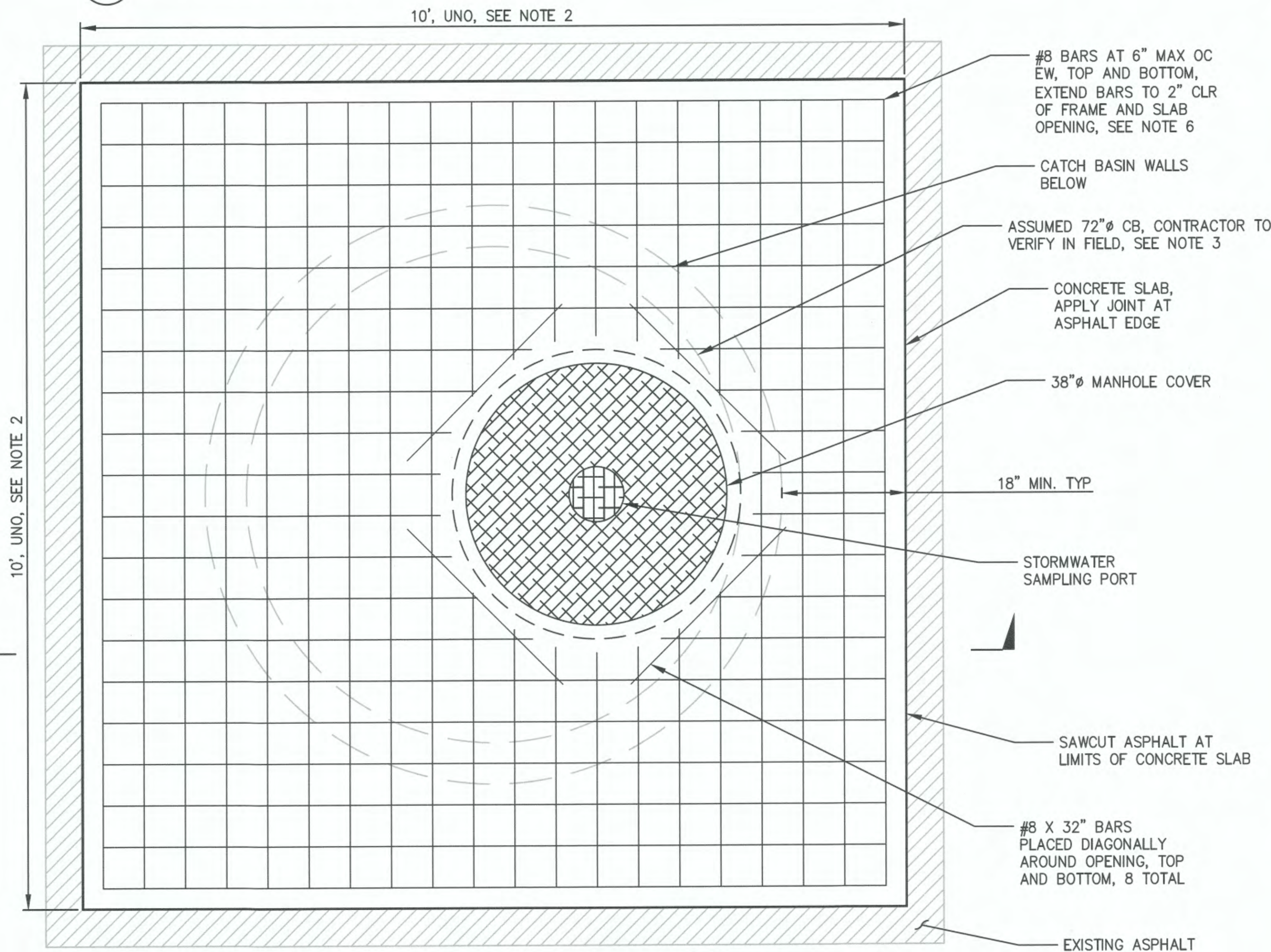
COMBINED SLAB PROPOSED CONDITIONS
RANGE: 03E SECTION: 35
TOWNSHIP: 21N
DATE-HRZ: 071347
M. ID: 201090.01
PHASE: BID SET

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BY: _____
REVISION: _____
APPR: _____



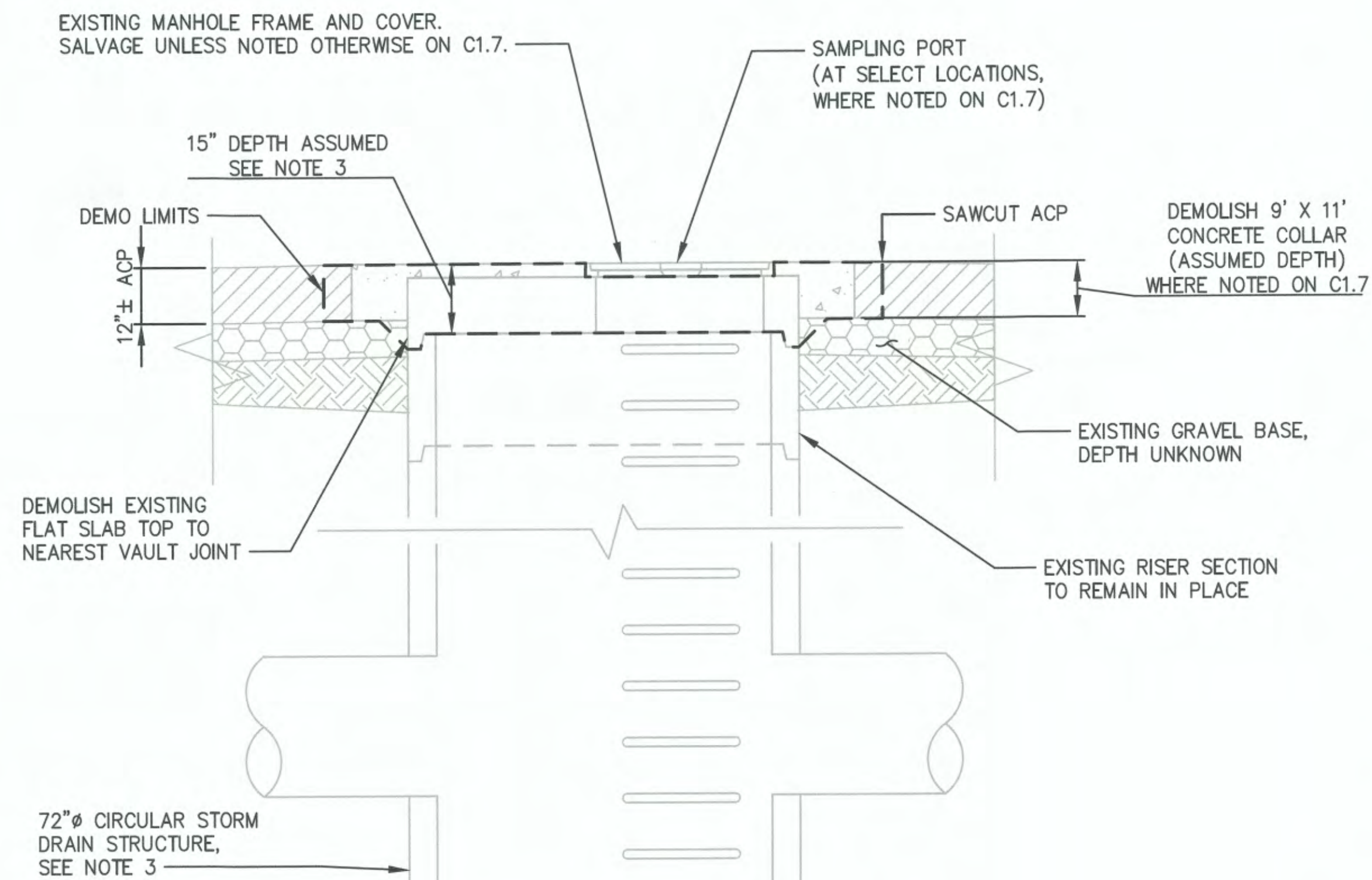
P08
C1.2
TYPICAL CATCH BASIN



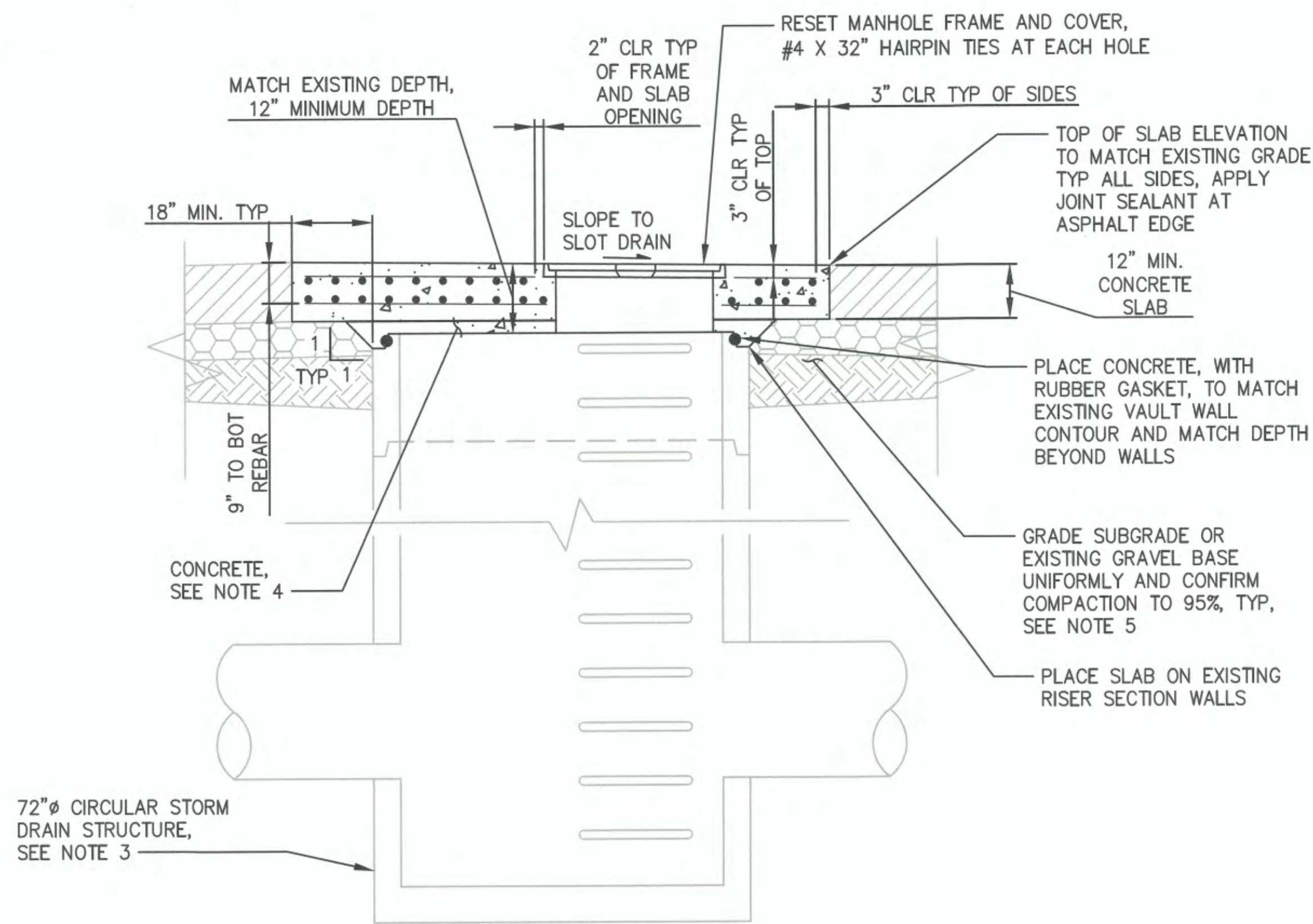
3
VARIES
PLAN - PROPOSED CONDITION
SCALE: 1" = 1'

NOTES

1. DIMENSIONS SHOWN ARE APPROXIMATE. CONTRACTOR TO VERIFY IN FIELD AND NOTIFY ENGINEER IF ACTUAL DIMENSIONS DIFFER FROM THOSE SHOWN.
2. SLAB DIMENSIONS SHOWN ARE TYPICAL. SEE SITE PLAN SHEETS FOR SLAB DIMENSIONS AT EACH LOCATION.
3. DISTANCE FROM EXISTING GRADE TO BOTTOM OF FLAT SLAB TOP MEASURED AT 15" AND VAULT SIZE MEASURED AT SD20 ONLY. MEASUREMENTS AT SD21, SD22, AND SD23 ASSUMED EQUAL.
4. CONCRETE SHALL BE PLACED BELOW THE MINIMUM DEPTH OF CONCRETE SLAB AS REQUIRED TO ACHIEVE GRADES.
5. IF SOFT SPOTS IN EXISTING SUBGRADE ARE FOUND, NOTIFY THE ENGINEER. REMOVE UNSUITABLE MATERIAL TO THE SATISFACTION OF THE ENGINEER AND REPLACE WITH CONCRETE.
6. EXTEND TOP BARS TO 2" CLR OF FRAME, EXTEND BOTTOM BARS TO 2" CLR OF SLAB OPENING OR FRAME.



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



2
C2.8
SECTION - PROPOSED CONDITION
SCALE: 1" = 2'

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	DRAWING SCALE:	AS NOTED	TACOMA, WA 98401-1837	

6641

C2.8

19 OF 19

CONTRACT/CONS:	071347	TOWNSHIP:	21N	RANGE:	03E	SECTION:	35
M. ID:	201090.01	DAT-HRZ:		VERT:			
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WASHINGTON UNITED TERMINALS

UTILITY VAULT UPGRADES

DETAILS

LARGE STORM DRAIN STRUCTURES

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