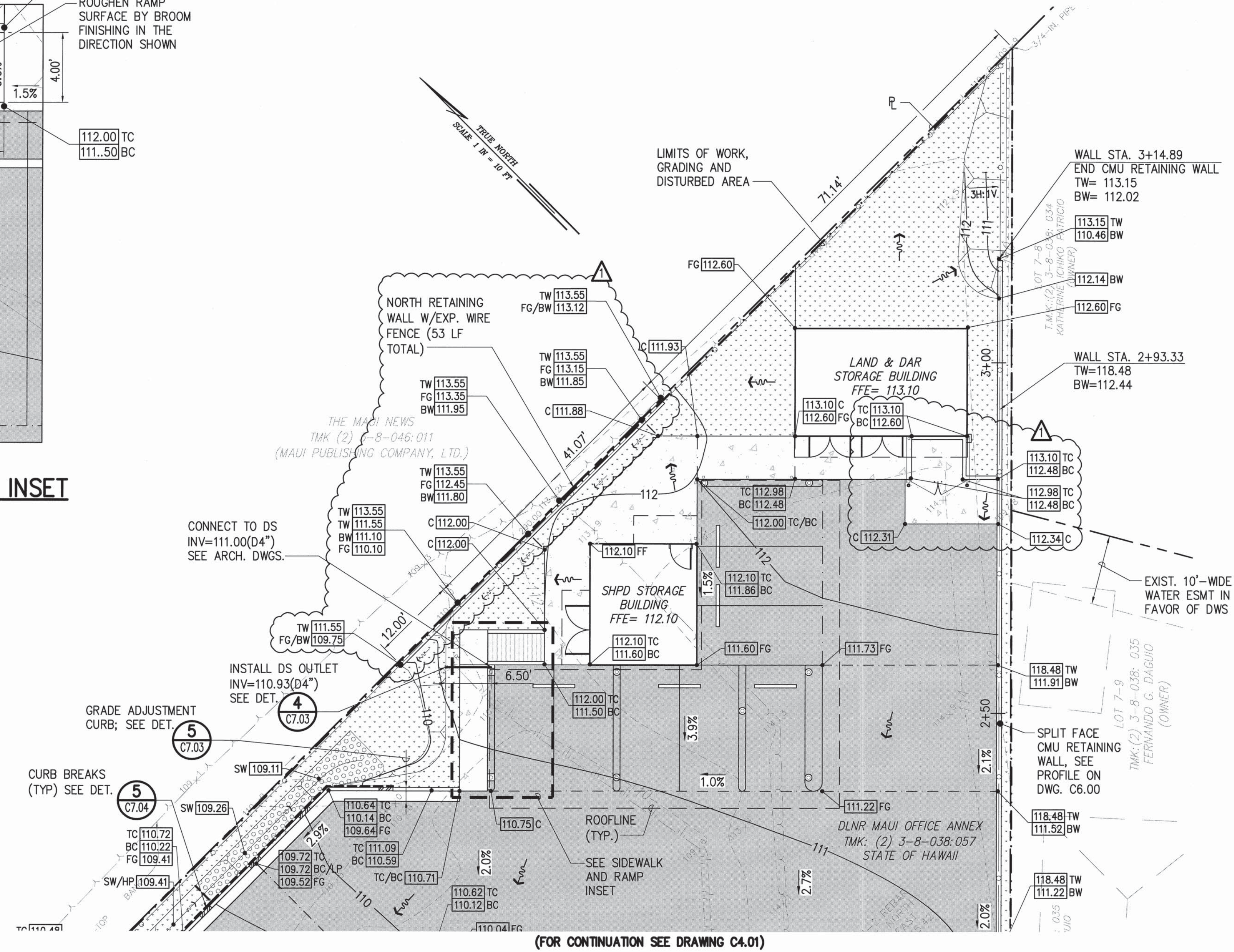
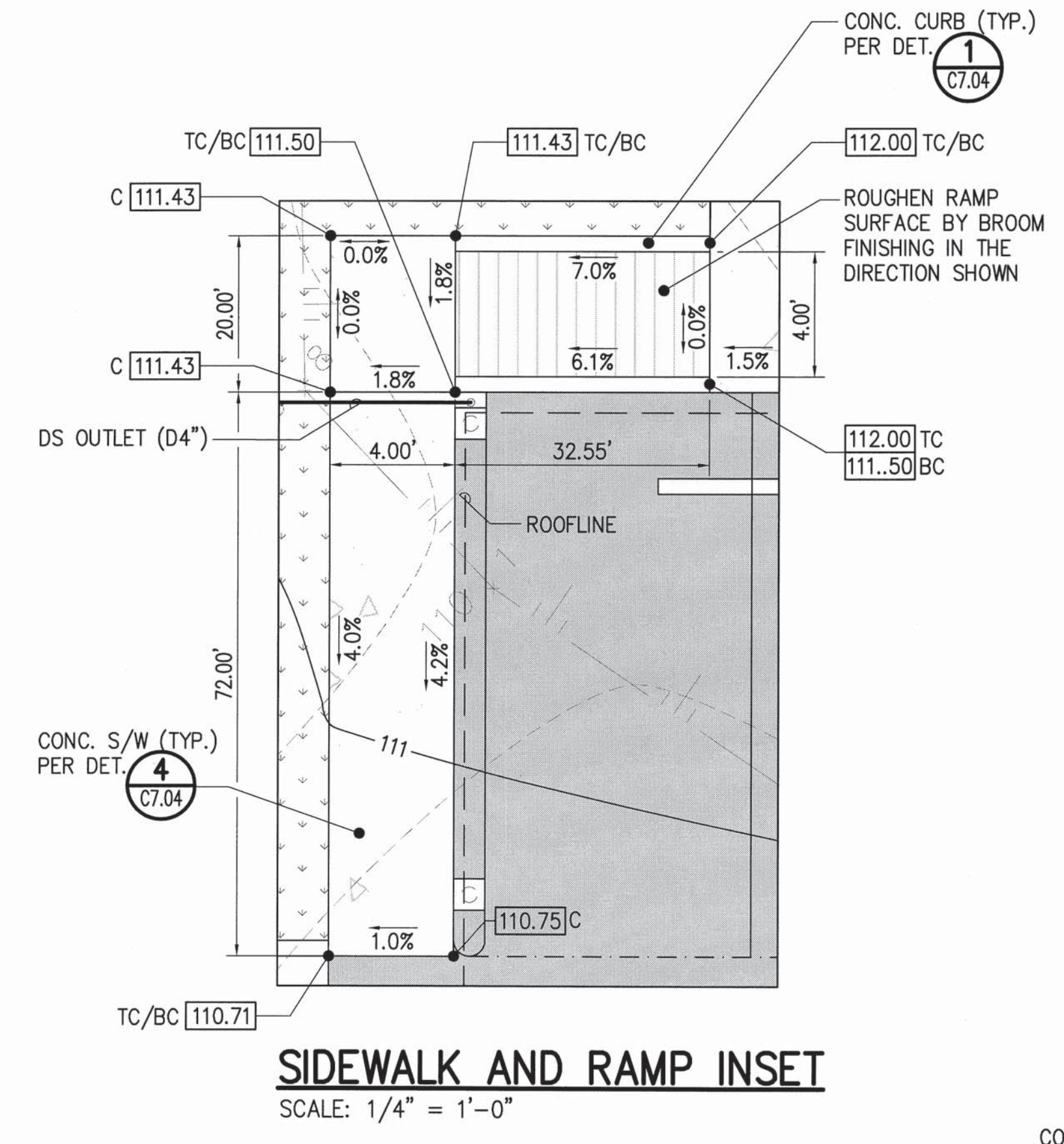


LEGEND:

- PROPERTY LINE
- - - - - LIMITS OF WORK, GRADING AND DISTURBED AREA
- 110— PROP. GRADE CONTOUR
- - - - -110- EXIST. CONTOUR
- 112.57 PROP. SPOT ELEVATION
- 108x5 EXIST. SPOT ELEVATION
- [Pattern] LANDSCAPED AREA
- EXIST. TOP OF SLOPE
- EXIST. BOTTOM OF SLOPE
- PROP. TOP OF SLOPE
- PROP. BOTTOM OF SLOPE
- FLOW DIRECTION
- SWALE FLOW LINE
- GRADE BREAK
- 3.8% SLOPE
- [Pattern] CURB BREAK OR CONC. HEADER
- EXPANDED METAL FENCE
- ROOF OVERHANG

NOTE:

1. FOR LANDSCAPE AND IRRIGATION PLANS, SEE LANDSCAPE DRAWINGS.
2. CONTRACTOR SHALL ENSURE POSITIVE DRAINAGE IN ALL DIRECTIONS.

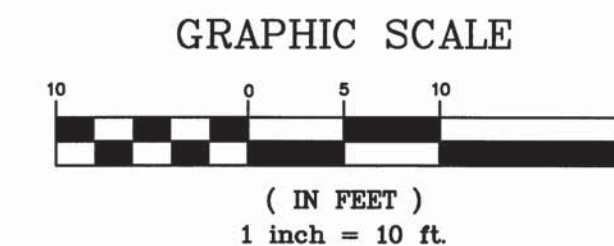


GRADING AND DRAINAGE PLAN - 3
SCALE: 1"=10'

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1	▲	BID AMENDMENT NO. 1	08/53	04/15/16	
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
MAUI OFFICE ANNEX WAILUKU, MAUI, HAWAII					
GRADING AND DRAINAGE PLAN - 3					
DESIGNED: CJ		SUBMITTED:			
DRAWN: CK		DATE: 03/15/2016			
CHECKED: YT		SCALE: AS SHOWN			
APPROVED: CHIEF ENGINEER		APR 19 2016 DATE		DRAWING NO. C4.02	
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.					

(FOR CONTINUATION SEE DRAWING C5.01)



LEGEND:

- PROPERTY LINE
- - - BUILDING SETBACK LINE
- W2 — NEW WATERLINE
- [Pattern] LANDSCAPED AREA (SEE LANDSCAPE DWGS)
- [Pattern] NEW AC PAVEMENT
- [Pattern] NEW CONCRETE PAVEMENT
- - - EXIST. TOP OF SLOPE
- - - EXIST. BOTTOM OF SLOPE
- x - x - EXIST. WIRE FENCE
- ○ ○ NEW EXPANDED METAL FENCE
- - - ROOF OVERHANG
- S5 GENERAL LOCATION OF SETTLEMENT MONITORING STATION AND NO.

NOTES:

1. FOR OFFSITE UTILITIES SEE DWG. C2.00.
2. FOR DRAINAGE SYSTEM INFORMATION SEE DWG. C4.00.
3. FOR LANDSCAPING, SEE LANDSCAPE PLANS.
4. SEE BUILDING TIE DOWN DWG C5.01.

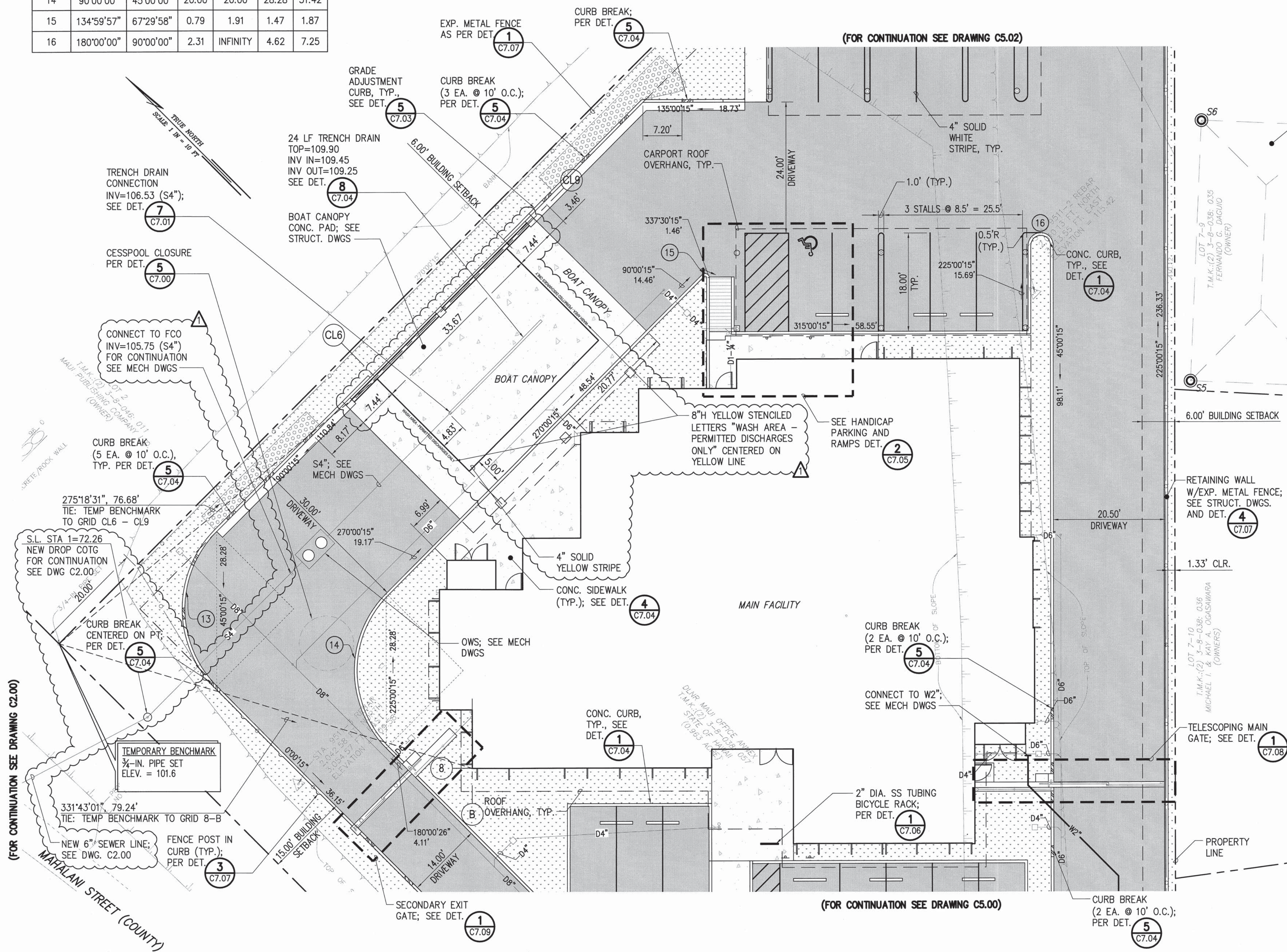
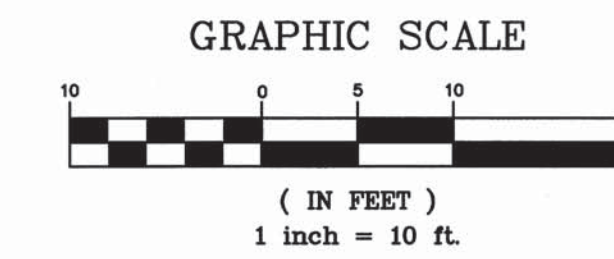
CURVE DATA						
CURVE	Δ	Δ/2	R	T	C	Lc
1	87°09'42"	43°34'51"	2.00	1.90	2.76	3.04
2	100°40'46"	50°20'23"	2.00	2.41	3.08	3.51
3	79°19'14"	39°39'37"	10.00	8.29	12.76	13.84
4	45°00'00"	22°30'00"	30.00	12.43	22.96	23.56
5	150°06'08"	75°03'04"	2.03	7.60	3.92	5.31
6	90°00'00"	45°00'00"	2.50	2.50	3.54	3.93
8	17°31'10"	8°45'35"	55.00	8.47	16.75	16.82
9	20°47'52"	10°23'56"	35.00	6.42	12.63	12.70
10	4°33'40"	2°16'50"	55.00	2.19	4.38	4.38
11	5°55'43"	2°57'51"	35.00	1.81	3.62	3.62
12	6°22'08"	3°11'04"	55.00	3.06	6.11	6.11

SITE AND UTILITY PLAN - 1
SCALE: 1"=10'

1	▲	BID AMENDMENT NO. 1	09/53	04/15/16	APPROVED
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
MAUI OFFICE ANNEX WAILUKU, MAUI, HAWAII					
SITE AND UTILITY PLAN - 1					
DESIGNED:	YT	SUBMITTED:			
DRAWN:	KS	DATE:	03/15/2016		
CHECKED:	YT	SCALE:	1" = 10'		
APPROVED:	<i>Cyly</i> CHIEF ENGINEER		DATE:	APR 19 2016	
DRAWING NO.		C5.00			

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CURVE DATA						
CURVE	Δ	Δ/2	R	T	C	Lc
13	90°00'00"	45°00'00"	20.00	20.00	28.28	31.42
14	90°00'00"	45°00'00"	20.00	20.00	28.28	31.42
15	134°59'57"	67°29'58"	0.79	1.91	1.47	1.87
16	180°00'00"	90°00'00"	2.31	INFINITY	4.62	7.25

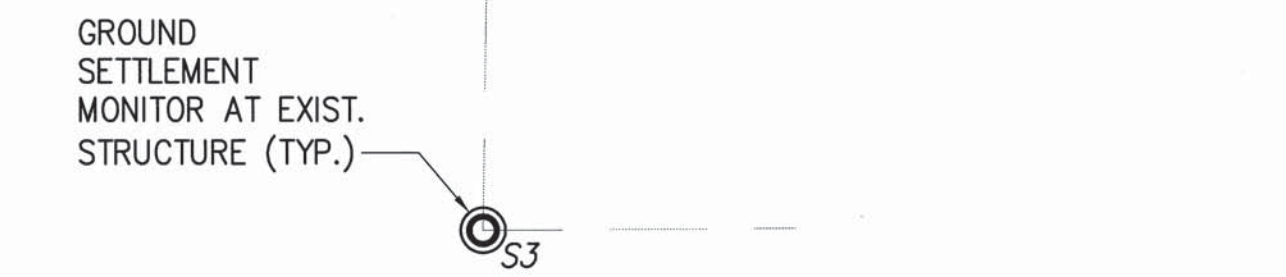


LEGEND:

- PROPERTY LINE
- BUILDING SETBACK LINE
- S6" NEW SEWER LINE
- [Pattern] LANDSCAPED AREA (SEE LANDSCAPE DWGS)
- [Pattern] INFILTRATION TRENCH
- [Pattern] NEW AC PAVEMENT
- [Pattern] NEW CONCRETE PAVEMENT
- NEW EXPANDED METAL FENCE
- ROOF OVERHANG
- EXIST. TOP OF SLOPE
- EXIST. BOTTOM OF SLOPE

NOTES:

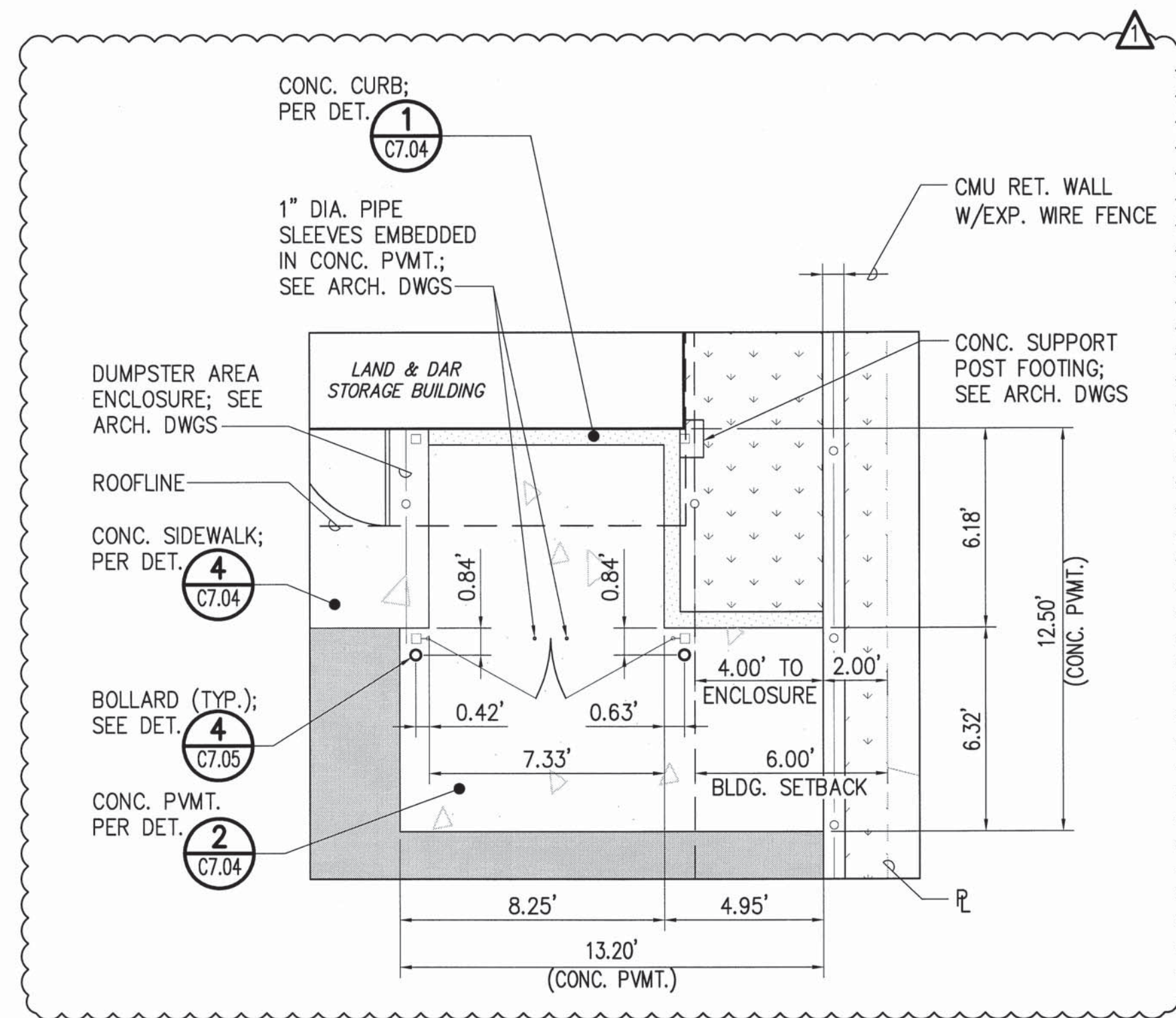
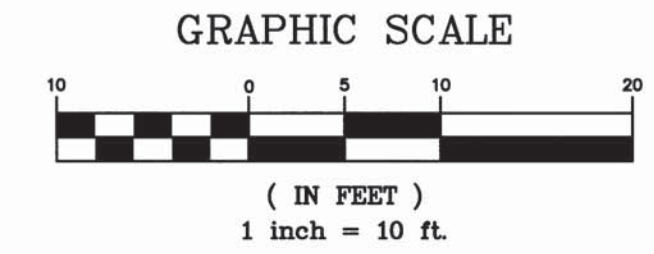
1. FOR OFFSITE UTILITIES SEE DWG. C2.00.
2. FOR DRAINAGE SYSTEM INFORMATION SEE DWG. C4.01.
3. FOR LANDSCAPING, SEE LANDSCAPE PLANS.



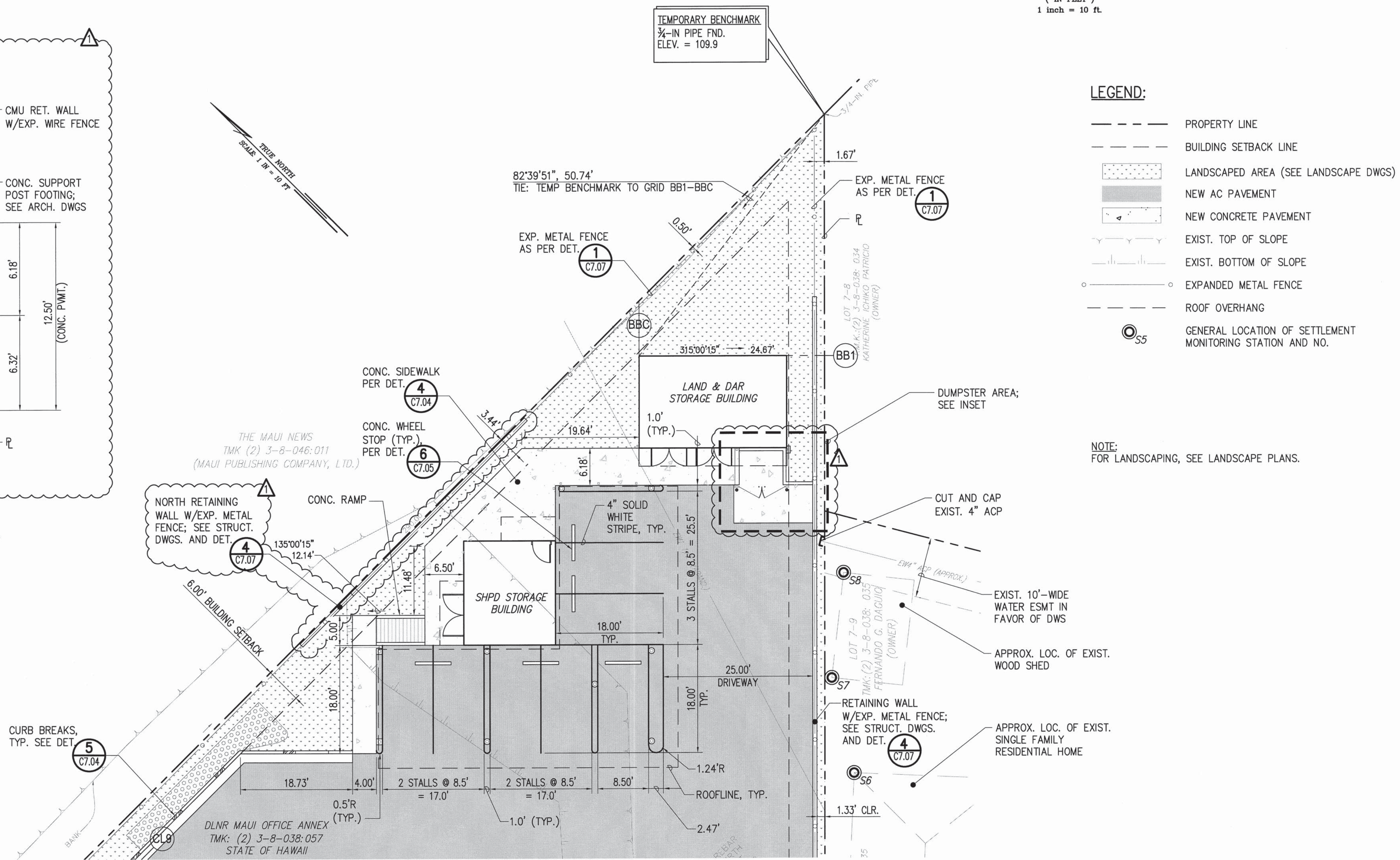
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SITE AND UTILITY PLAN - 2
SCALE: 1"=10'

1	▲	BID AMENDMENT NO. 1	10/53	04/15/16	✓
REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION MAUI OFFICE ANNEX WAILUKU, MAUI, HAWAII SITE AND UTILITY PLAN - 2					
DESIGNED:	Y.T.	SUBMITTED:			
DRAWN:	K.S.	DATE:	03/15/2016		
CHECKED:	Y.T.	SCALE:	1" = 10'		
APPROVED:	 YVONNE M. TURRO LICENSED PROFESSIONAL ENGINEER No. 11144-C HAWAII, U.S.A.				
EXP. DATE 04/30/2018		APR 19 2016 DATE		DRAWING NO. C5.01	
THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION AND CONSTRUCTION OF THIS PROJECT WILL BE UNDER MY OBSERVATION.					



INSET OF DUMPSTER AREA
 SCALE: 1/4" = 1'-0"



- LEGEND:**
- PROPERTY LINE
 - BUILDING SETBACK LINE
 - [Pattern] LANDSCAPED AREA (SEE LANDSCAPE DWGS)
 - [Pattern] NEW AC PAVEMENT
 - [Pattern] NEW CONCRETE PAVEMENT
 - EXIST. TOP OF SLOPE
 - EXIST. BOTTOM OF SLOPE
 - EXPANDED METAL FENCE
 - ROOF OVERHANG
 - S5 GENERAL LOCATION OF SETTLEMENT MONITORING STATION AND NO.

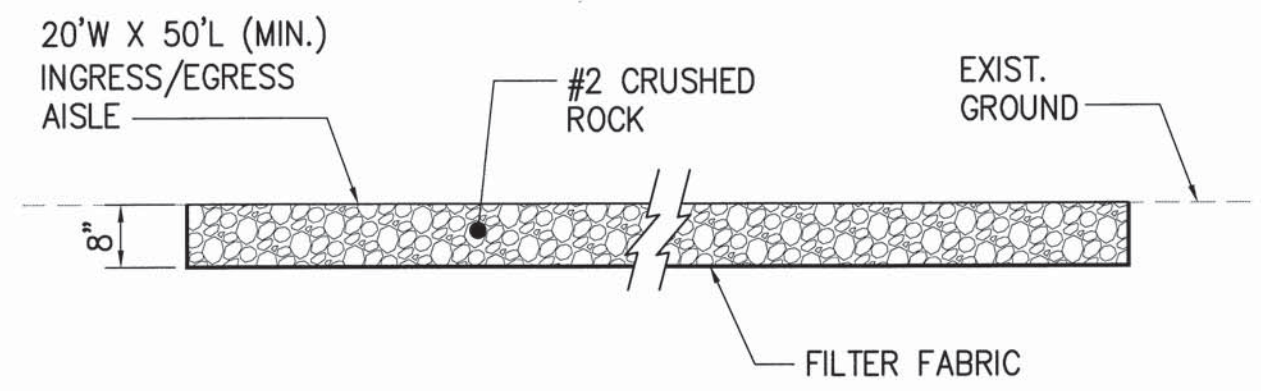
NOTE:
 FOR LANDSCAPING, SEE LANDSCAPE PLANS.

(FOR CONTINUATION SEE DRAWING C5.01)

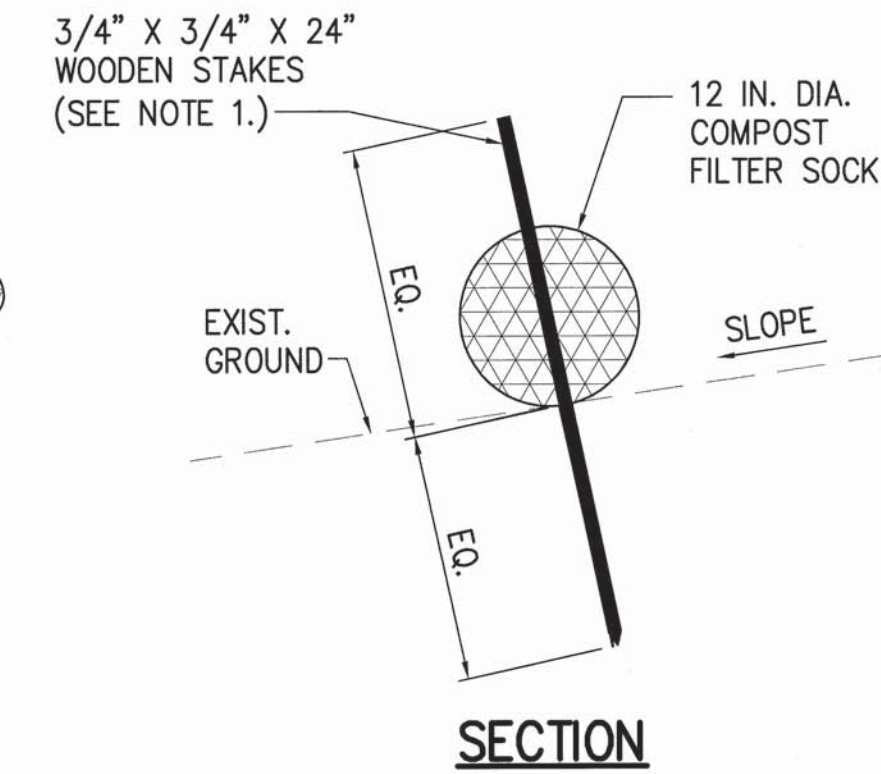
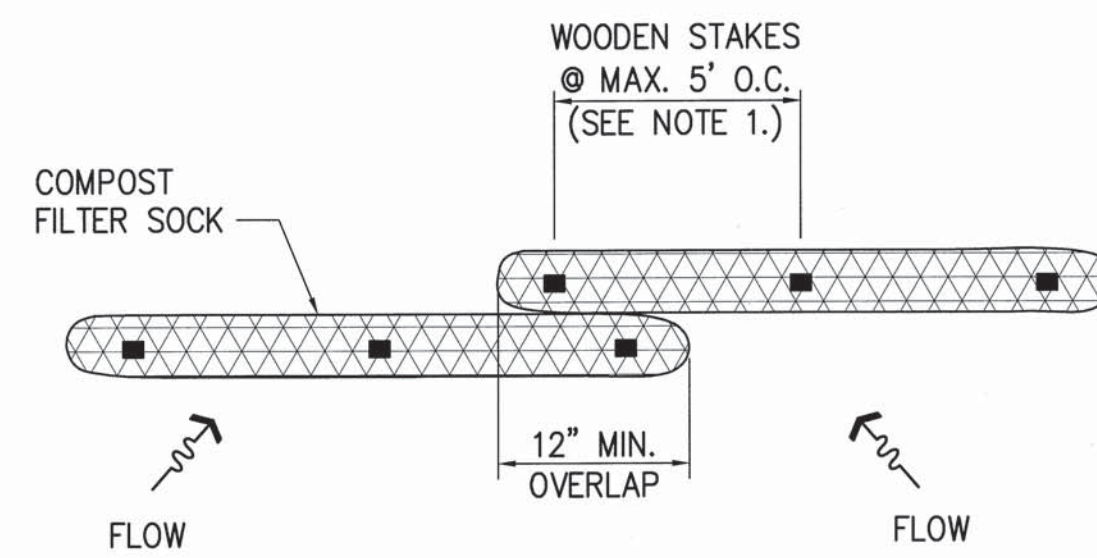
SITE AND UTILITY PLAN - 3
 SCALE: 1"=10'

1	△	BID AMENDMENT NO. 1	11/53	04/15/16	
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
MAUI OFFICE ANNEX WAILUKU, MAUI, HAWAII					
SITE AND UTILITY PLAN - 3					
DESIGNED: YT		SUBMITTED:			
DRAWN: KS		DATE: 03/15/2016			
CHECKED: YT		SCALE: AS SHOWN			
APPROVED: <i>[Signature]</i>		DATE: APR 19 2016		DRAWING NO. C5.02	
CHIEF ENGINEER					

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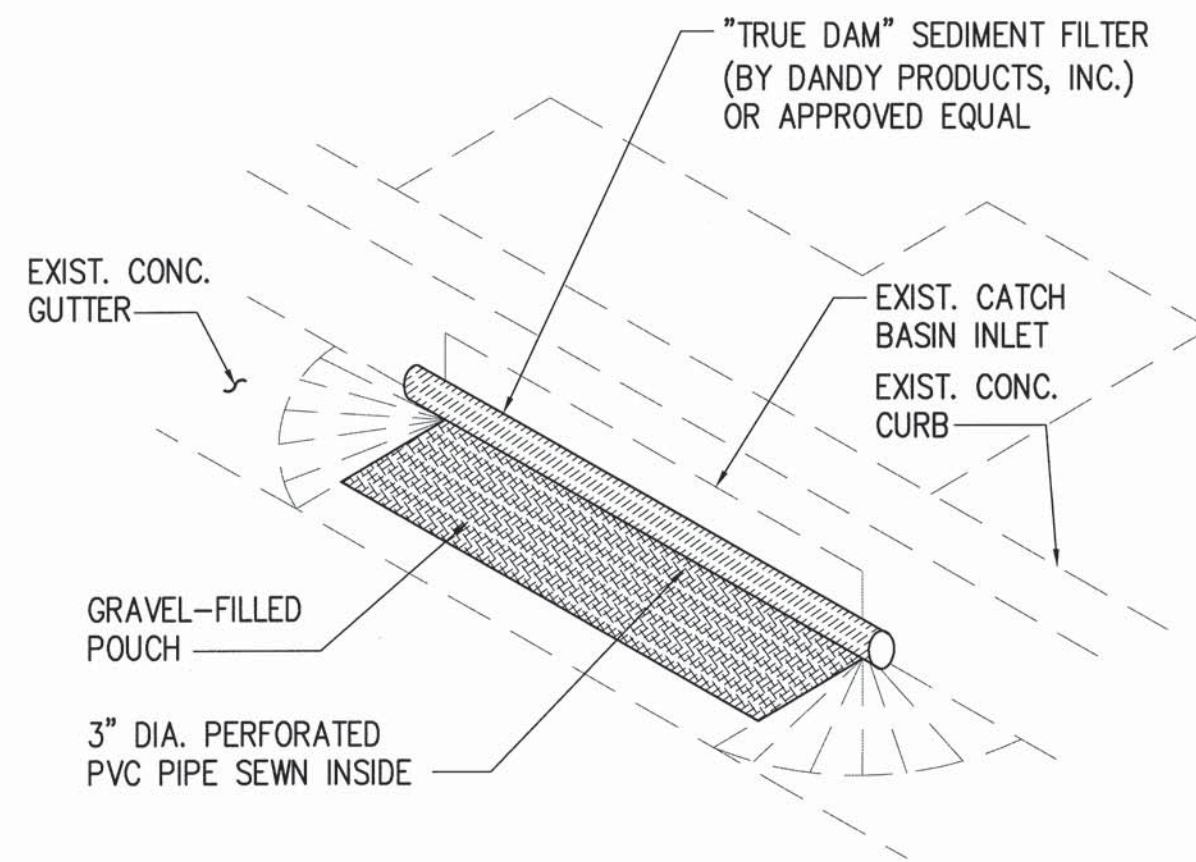
1 CONSTRUCTION ENTRANCE DETAIL
C7.00 NOT TO SCALE



- NOTE:**
- WOODEN STAKES SHALL ONLY BE REQUIRED IF SLOPE IS EQUAL TO OR GREATER THAN 4H:1V AS SHOWN ON THE PLANS.
 - FILTER SOCK SHALL BE MANUFACTURED BY ENVIROTECH BIOSOLUTIONS, OR APPROVED EQUAL, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
 - COMPOST SHALL NOT CONTAIN BIOSOLIDS AND SHOULD BE CONSISTENT WITH EPA GUIDELINES.

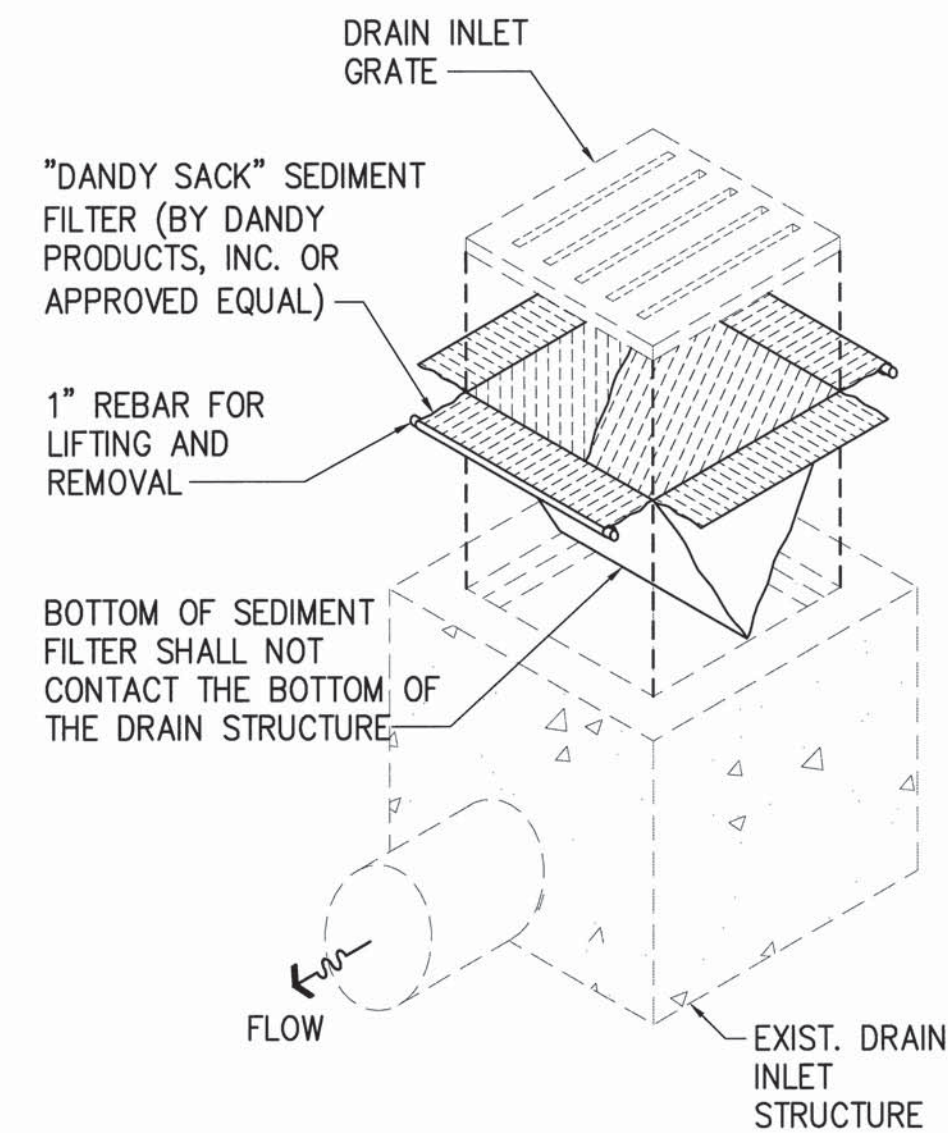
PLAN

SECTION



- CATCH BASIN PROTECTION NOTES:**
- CONTRACTOR SHALL INSTALL SEDIMENT FILTER DEVICES AT CATCH BASIN(S) INDICATED TO PREVENT SOIL OR DEBRIS IN ANY FORM FROM ENTERING THE DRAINAGE SYSTEM.
 - ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
 - CATCH BASIN PROTECTION DEVICES SHALL BE REMOVED DURING PERIODS OF ABOVE NORMAL RAINFALL THEN REPLACED AFTER THE EVENT HAS PASSED.
 - AT THE END OF THE PROJECT, EXISTING CATCH BASINS ADJACENT TO THE PROJECT SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE CATCH BASINS SHALL BE REMOVED. FLUSHING INTO THE CATCH BASINS IS PROHIBITED.

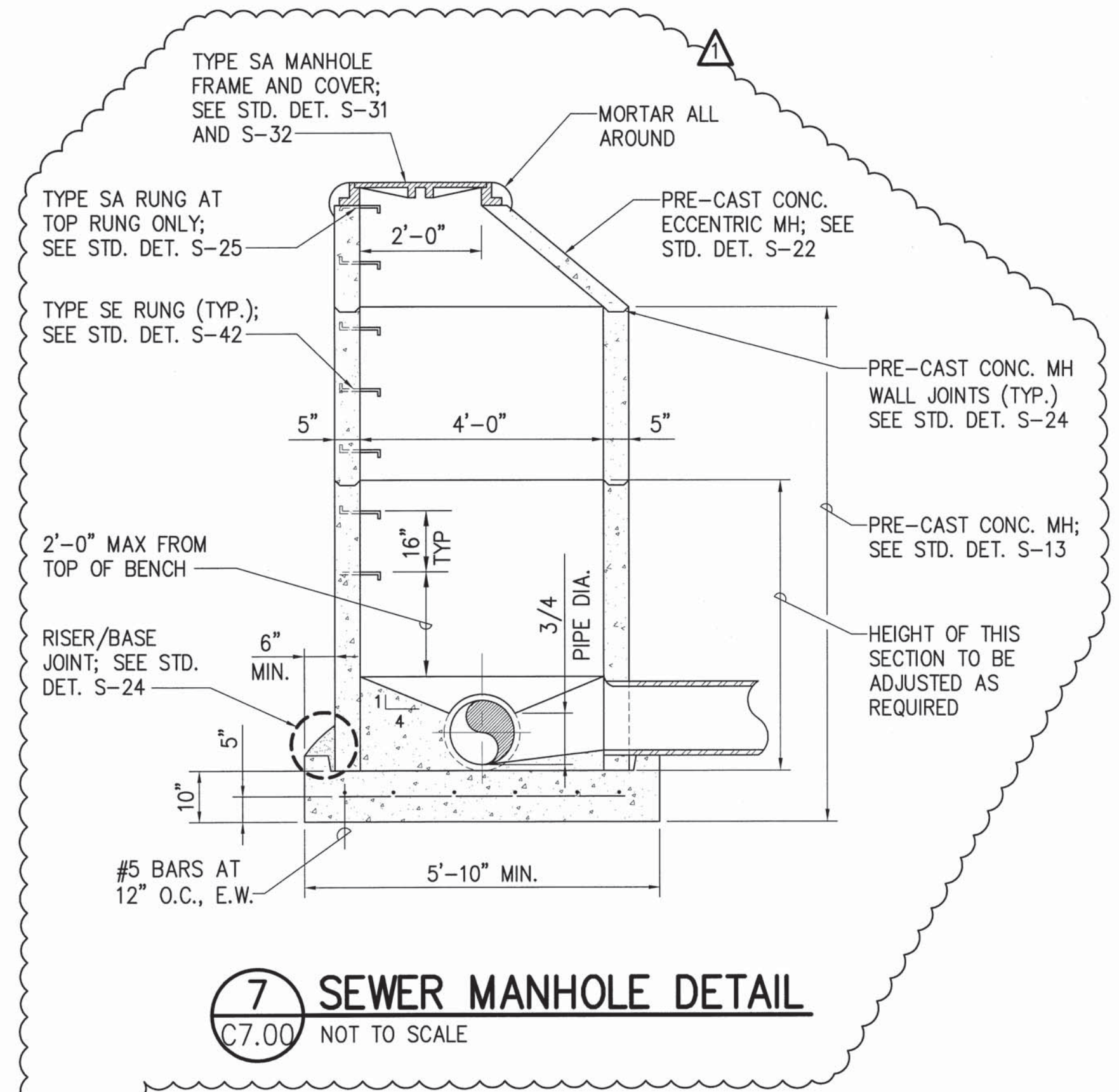
3 CATCH BASIN PROTECTION DETAIL
C7.00 NOT TO SCALE



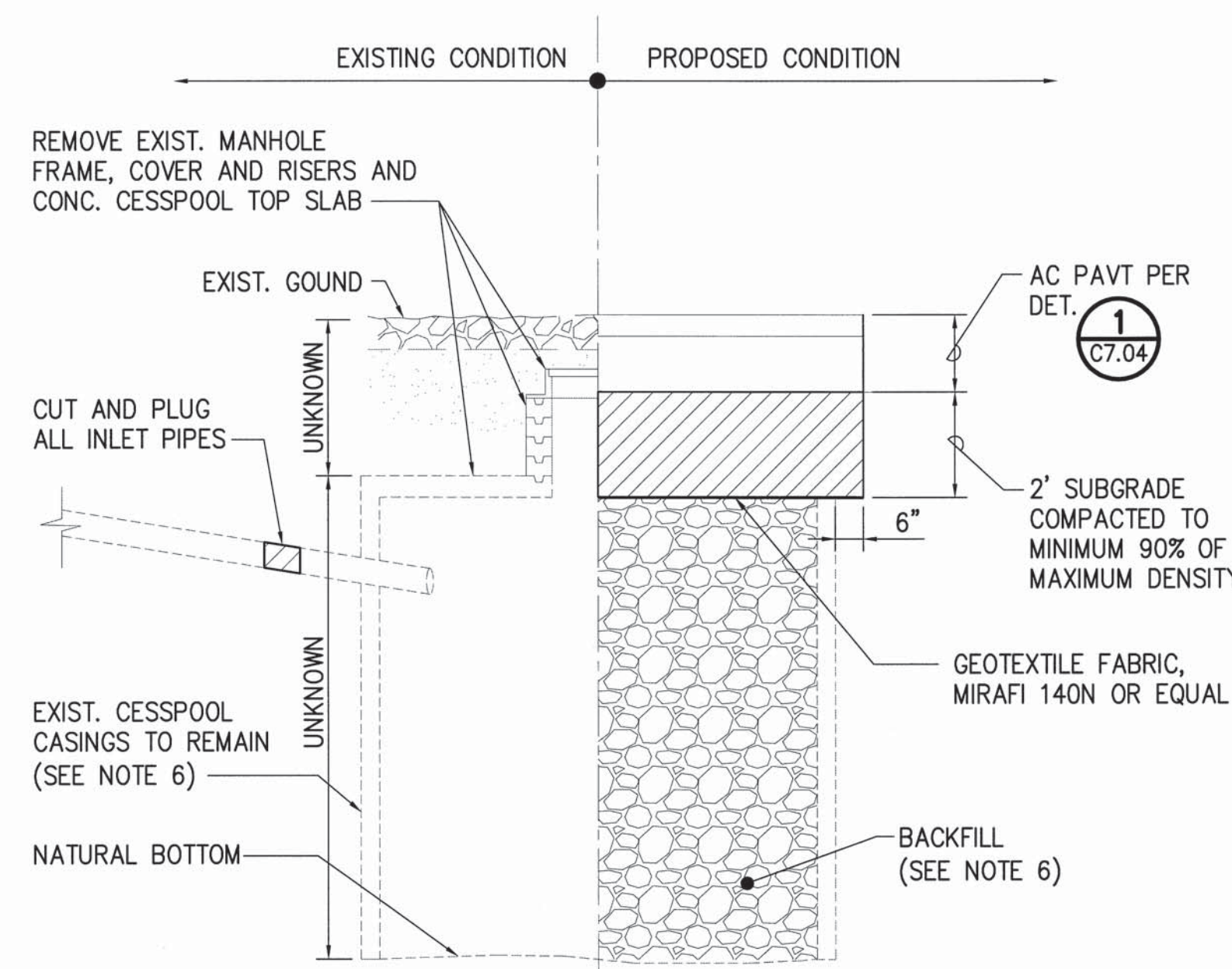
2 FILTER SOCK DETAIL
C7.00 SCALE: NOT TO SCALE

- DRAIN INLET PROTECTION NOTES:**
- INSTALL DRAIN INLET PROTECTION AT EXISTING DRAIN INLETS IN AND ADJACENT TO THE PROJECT AREA PRIOR TO THE START OF WORK AND AT ALL NEW DRAIN INLETS AFTER SUCH ARE CONSTRUCTED TO PREVENT SOIL OR DEBRIS IN ANY FORM FROM ENTERING THE DRAINAGE SYSTEM.
 - ALL CONTROL MEASURES SHALL BE CHECKED AND REPAIRED AS NECESSARY.
 - DRAIN INLET PROTECTION DEVICES SHALL BE REMOVED DURING PERIODS OF ABOVE NORMAL RAINFALL THEN REPLACED AFTER THE EVENT HAS PASSED.
 - AT THE END OF THE PROJECT, EXISTING DRAIN INLETS ADJACENT TO THE PROJECT SHALL BE INSPECTED AND ANY ACCUMULATED SEDIMENT AND DEBRIS FOUND IN THE DRAIN INLETS SHALL BE REMOVED. FLUSHING INTO THE DRAINAGE SYSTEM IS PROHIBITED.

4 DRAIN INLET PROTECTION DETAIL
C7.00 NOT TO SCALE

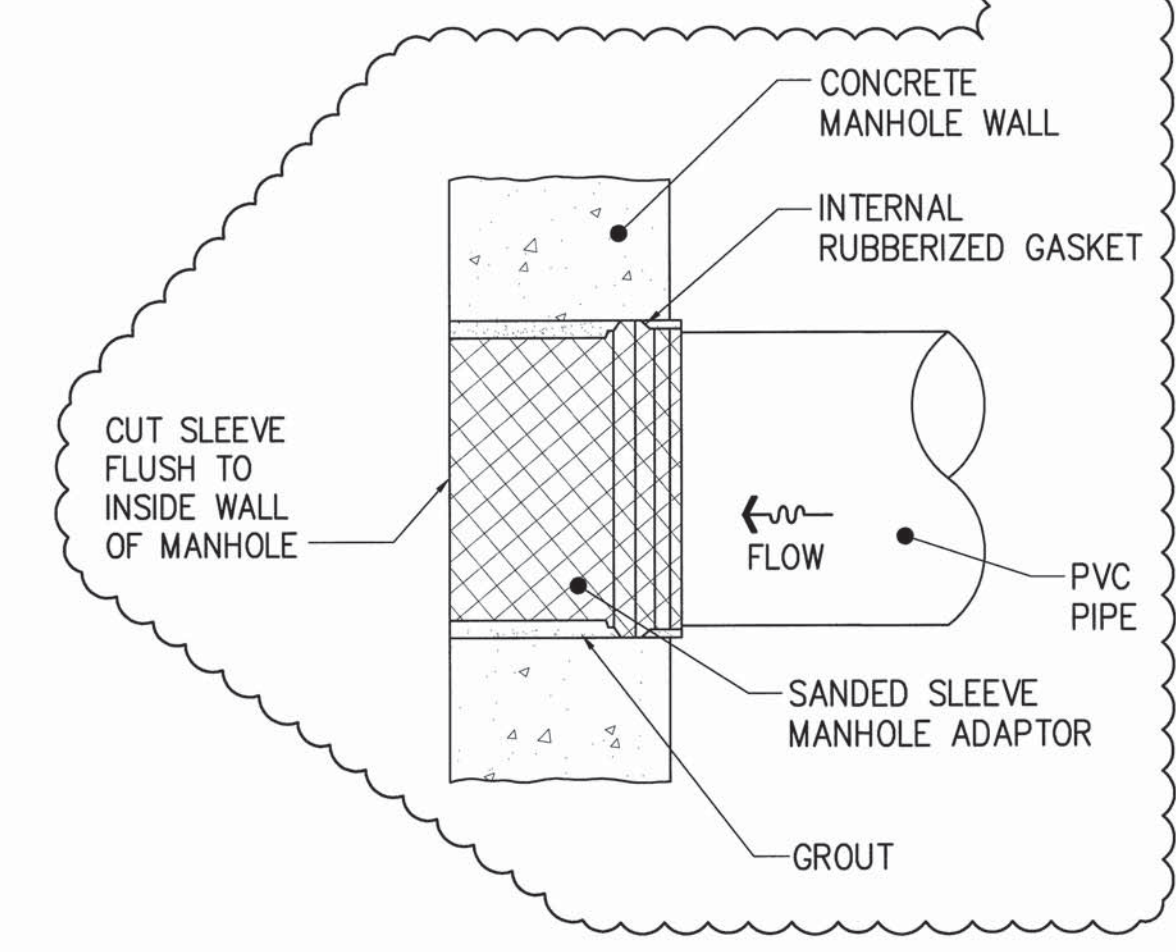


7 SEWER MANHOLE DETAIL
C7.00 NOT TO SCALE



- CESSPOOL ABANDONMENT/BACKFILLING NOTES:**
- CUT OR PERMANENTLY SEAL ANY PIPING LEADING TO THE CESSPOOL.
 - CONTRACTOR SHALL REMOVE THE CONCRETE SLAB WELL COVER INCLUDING THE OVERLYING MANHOLE COVER, BRICKS, AND SOIL MATERIAL TO EXPOSED THE CESSPOOL AND ALL IMPEDIMENTS TO ALLOW FOR THE CLEANING AND COMPLETE BACKFILLING OF THE CESSPOOL.
 - ALL ACCUMULATED SEDIMENTS, SLUDGE, DEBRIS, AND ORGANIC MATTER SHALL BE REMOVED UNTIL NATURAL GROUND IS EXPOSED AT THE BOTTOM OF THE CESSPOOLS. USE A RIGID POLE OR ROD TO PROBE THAT THE NATURAL BOTTOM IS ACHIEVED. THE CESSPOOLS MUST BE CLEARED TO THEIR ORIGINAL EXCAVATED DEPTH BEFORE BACKFILLING COMMENCES. THE CLEARED DEPTHS SHALL BE FIELD VERIFIED AND RECORDED. CLEARING OF THE CESSPOOLS SHALL BE PERFORMED AT LEAST ONE DAY PRIOR TO ANY BACKFILLING.
 - ALL SEDIMENTS AND SLUDGE REMOVED SHALL BE DISPOSED OF AT A MUNICIPAL WASTEWATER TREATMENT PLANT WHICH ACCEPTS SUCH MATERIALS.
 - THE CONTRACTOR SHALL BE HELD RESPONSIBLE TO ENSURE NO LIQUIDS OR SOLIDS FROM THE CESSPOOL ARE DISCHARGED INTO THE GROUND (HAR, SECTION 11-62-06(G)).
 - DEMOLISH & REMOVE EXIST. CESSPOOL RINGS TO PROVIDE 4" MIN. CLR. TO NEW D6" ABOVE.

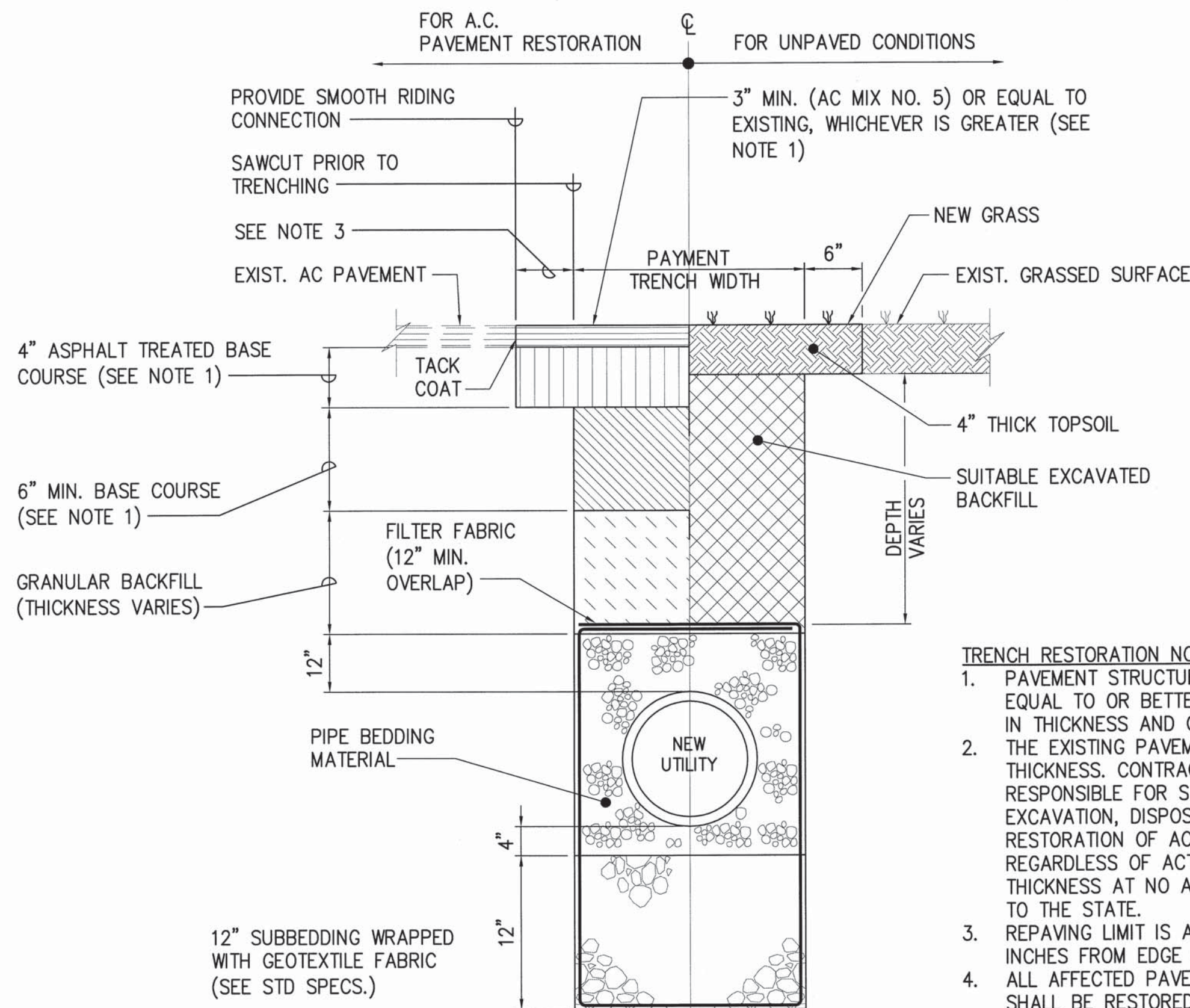
5 CESSPOOL CLOSURE DETAIL
C7.00 SCALE: NOT TO SCALE



6 EXIST. SMH PENETRATION DETAIL
C7.00 SCALE: NOT TO SCALE

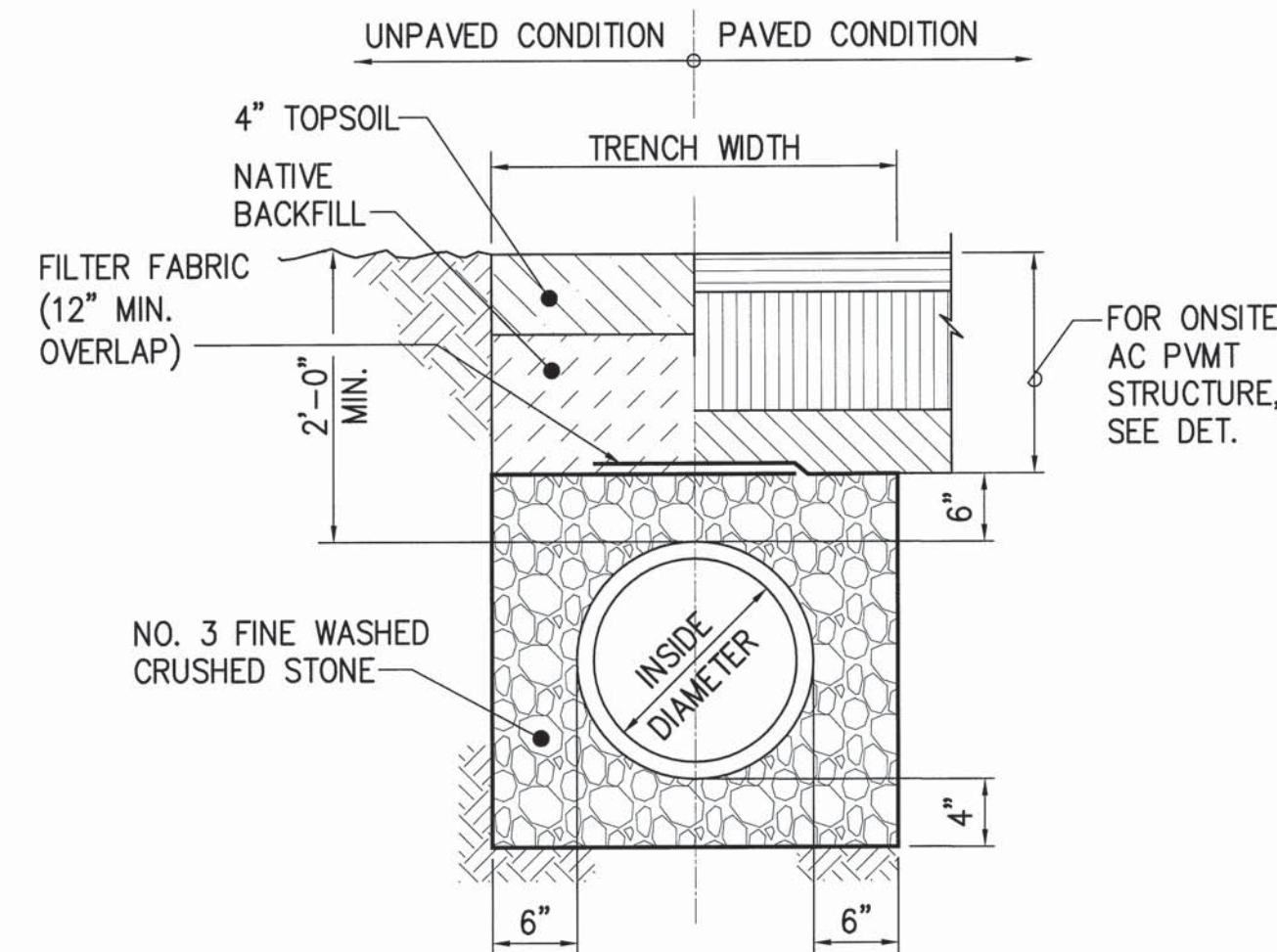
1	△	BID AMENDMENT NO. 1	12/53	04/15/16	✓
REVISION NO.	SYM.	DESCRIPTION	SHT./OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
MAUI OFFICE ANNEX WAILUKU, MAUI, HAWAII					
DETAILS - 1					
DESIGNED:	YT	SUBMITTED:			
DRAWN:	YT	DATE:	03/15/2016		
CHECKED:	YT	SCALE:	AS SHOWN		
APPROVED:	<i>[Signature]</i> CHIEF ENGINEER		DATE:	APR 19 2016	
DRAWING NO.		C7.00			

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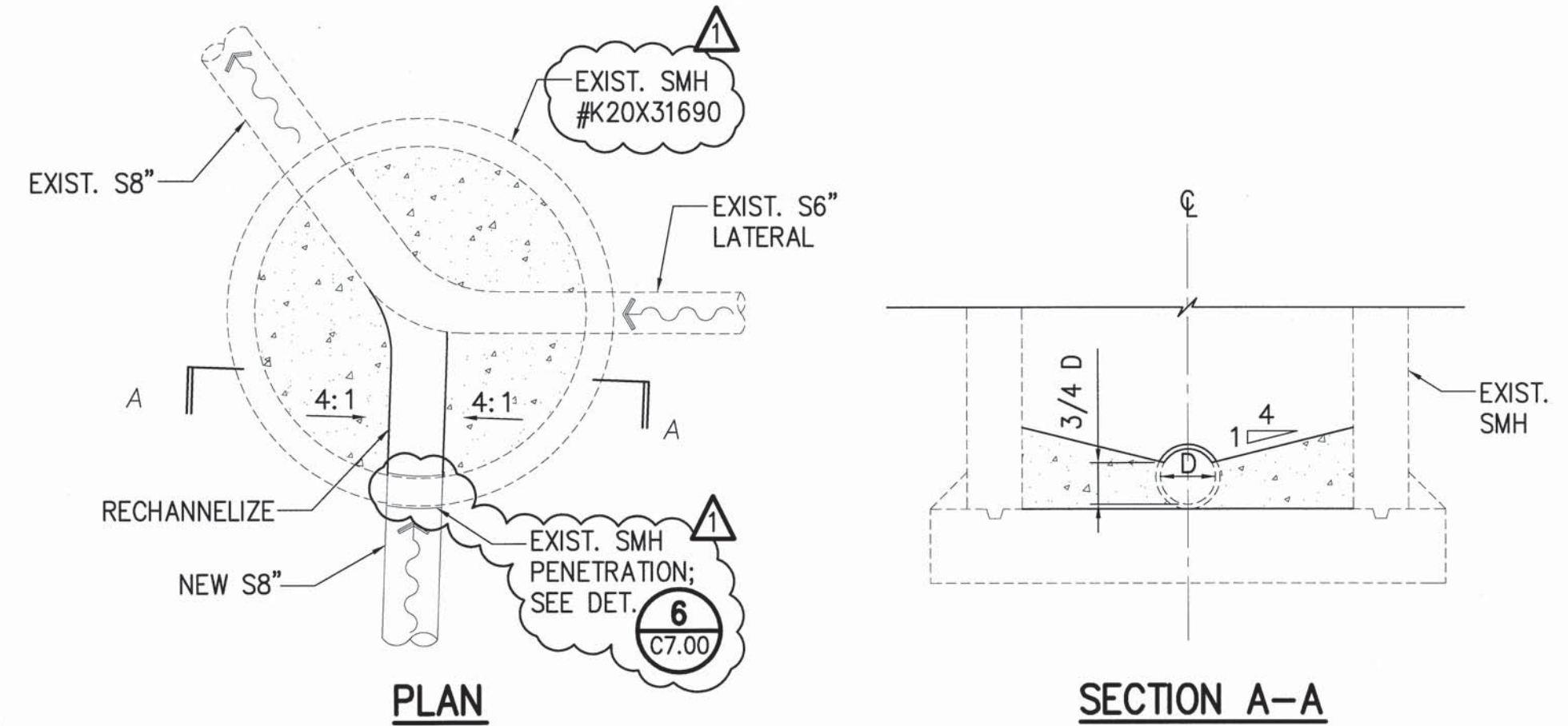


1 TRENCH RESTORATION (PUBLIC)
C7.01 NOT TO SCALE

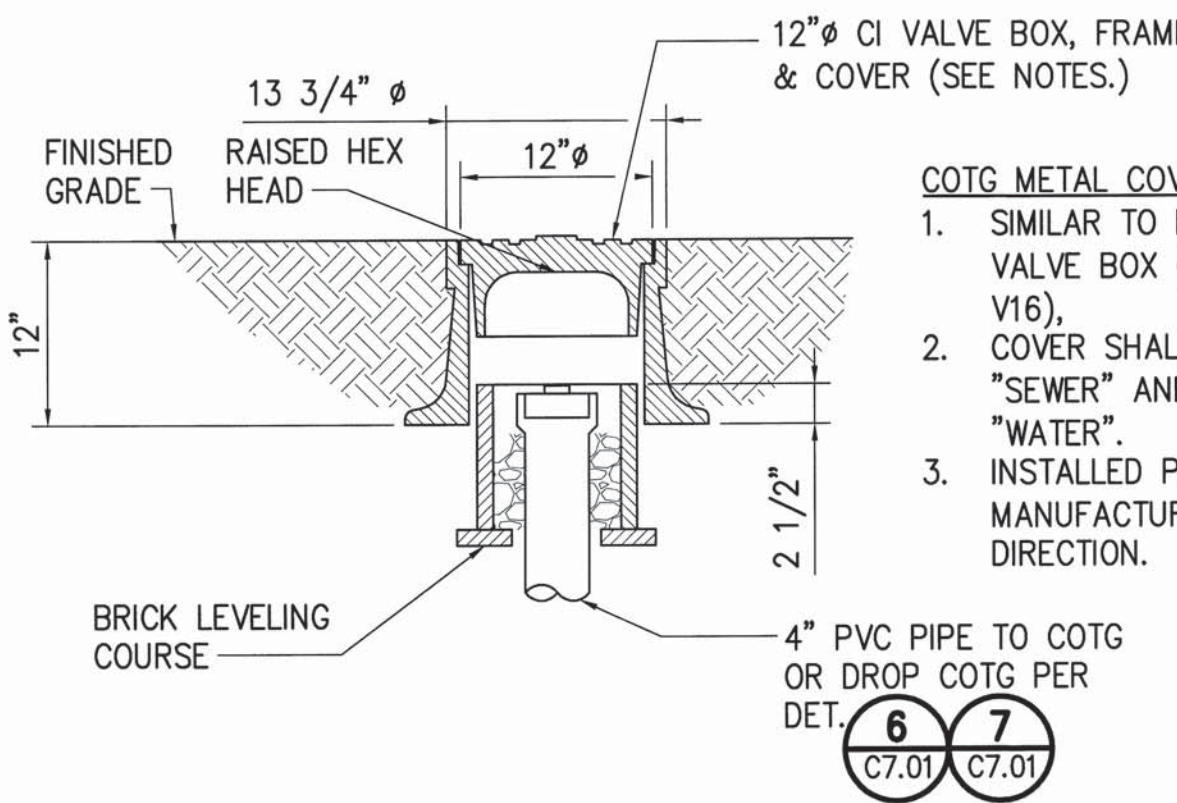
- TRENCH RESTORATION NOTES:**
1. PAVEMENT STRUCTURE SHALL BE EQUAL TO OR BETTER THAN EXISTING IN THICKNESS AND QUALITY.
 2. THE EXISTING PAVEMENT MAY VARY IN THICKNESS. CONTRACTOR SHALL BE RESPONSIBLE FOR SAWCUTTING, EXCAVATION, DISPOSAL, AND RESTORATION OF AC PAVEMENT, REGARDLESS OF ACTUAL PAVEMENT THICKNESS AT NO ADDITIONAL COST TO THE STATE.
 3. REPAVING LIMIT IS A MINIMUM OF 12 INCHES FROM EDGE OF TRENCH.
 4. ALL AFFECTED PAVEMENT MARKINGS SHALL BE RESTORED TO MATCH PRE-CONSTRUCTION CONDITIONS.



2 TRENCH RESTORATION (PRIVATE)
C7.01 NOT TO SCALE

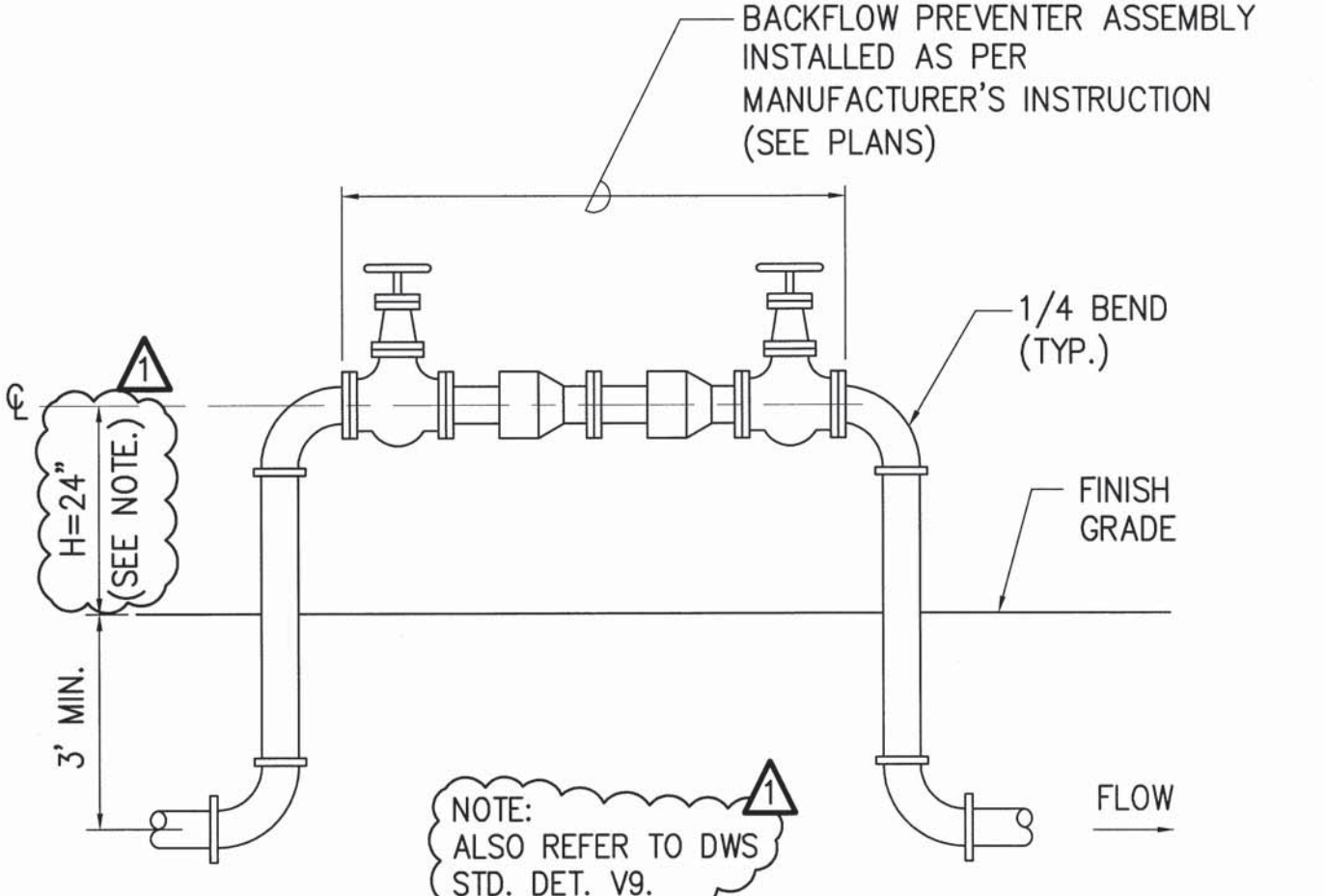


3 CHANNELIZED MANHOLE DETAIL
C7.01 NOT TO SCALE

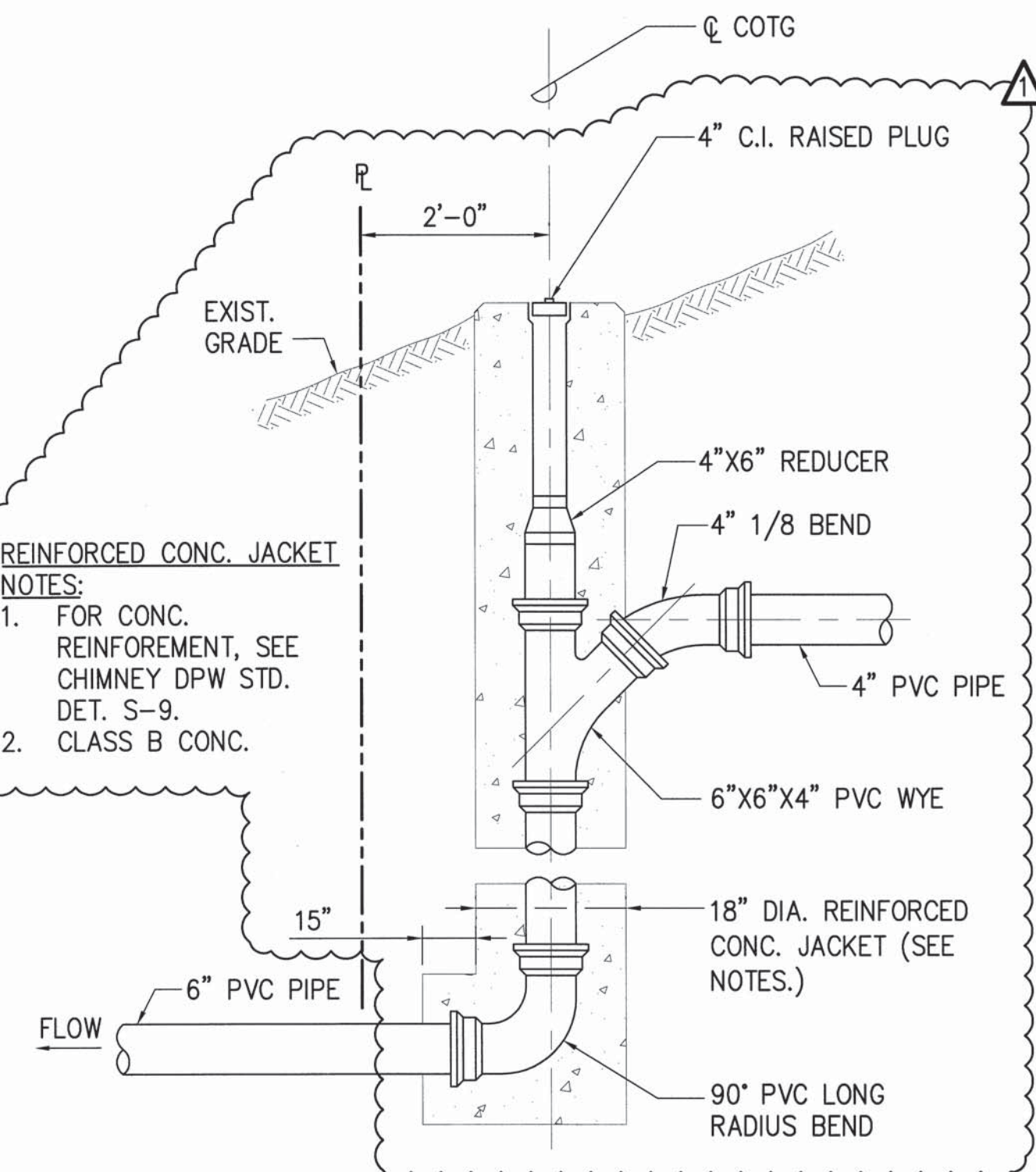


4 COTG METAL COVER
C7.01 NOT TO SCALE

- COTG METAL COVER NOTES:**
1. SIMILAR TO BWS 12\"/>

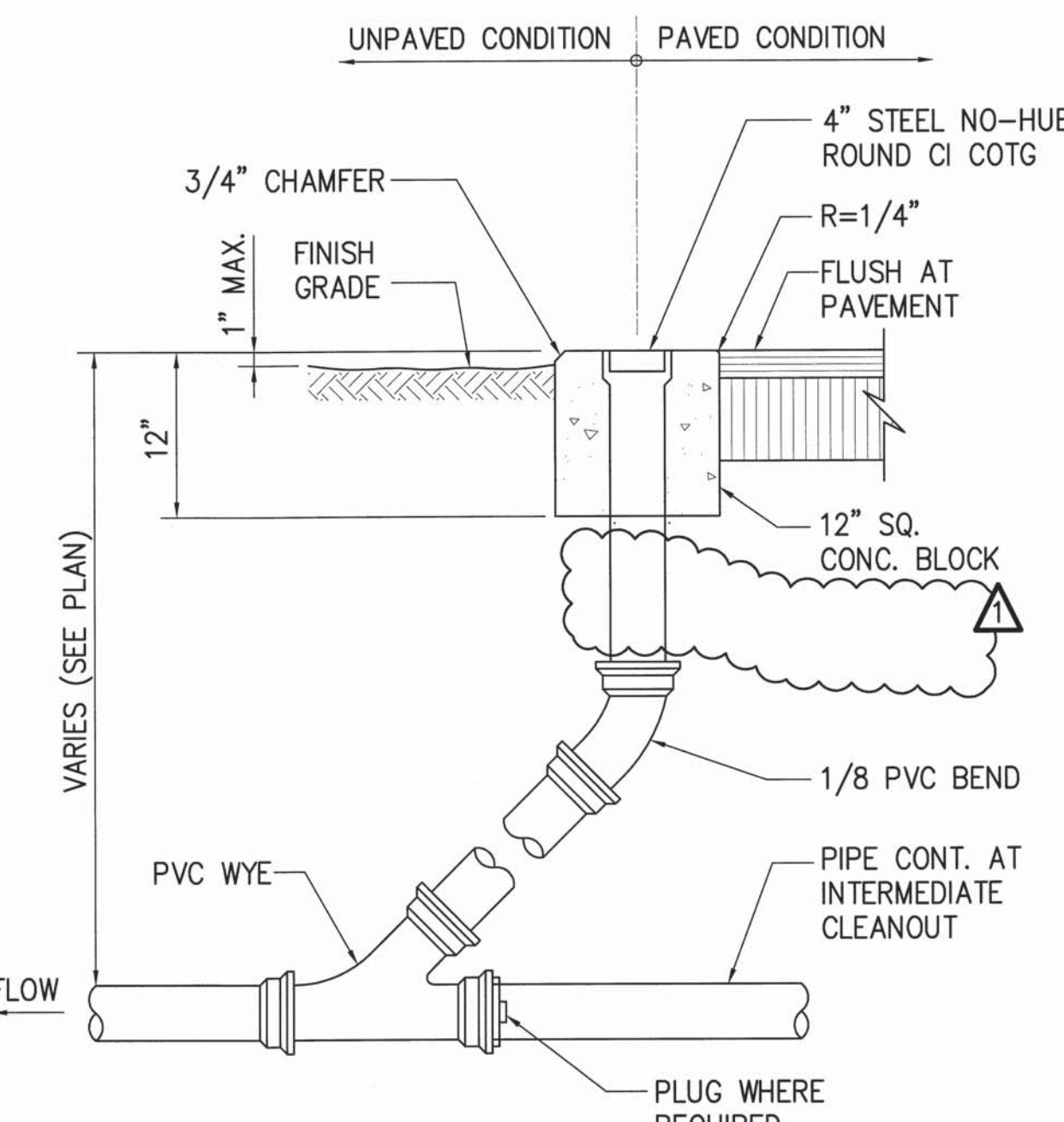


5 BACKFLOW PREVENTER DETAIL
C7.01 NOT TO SCALE

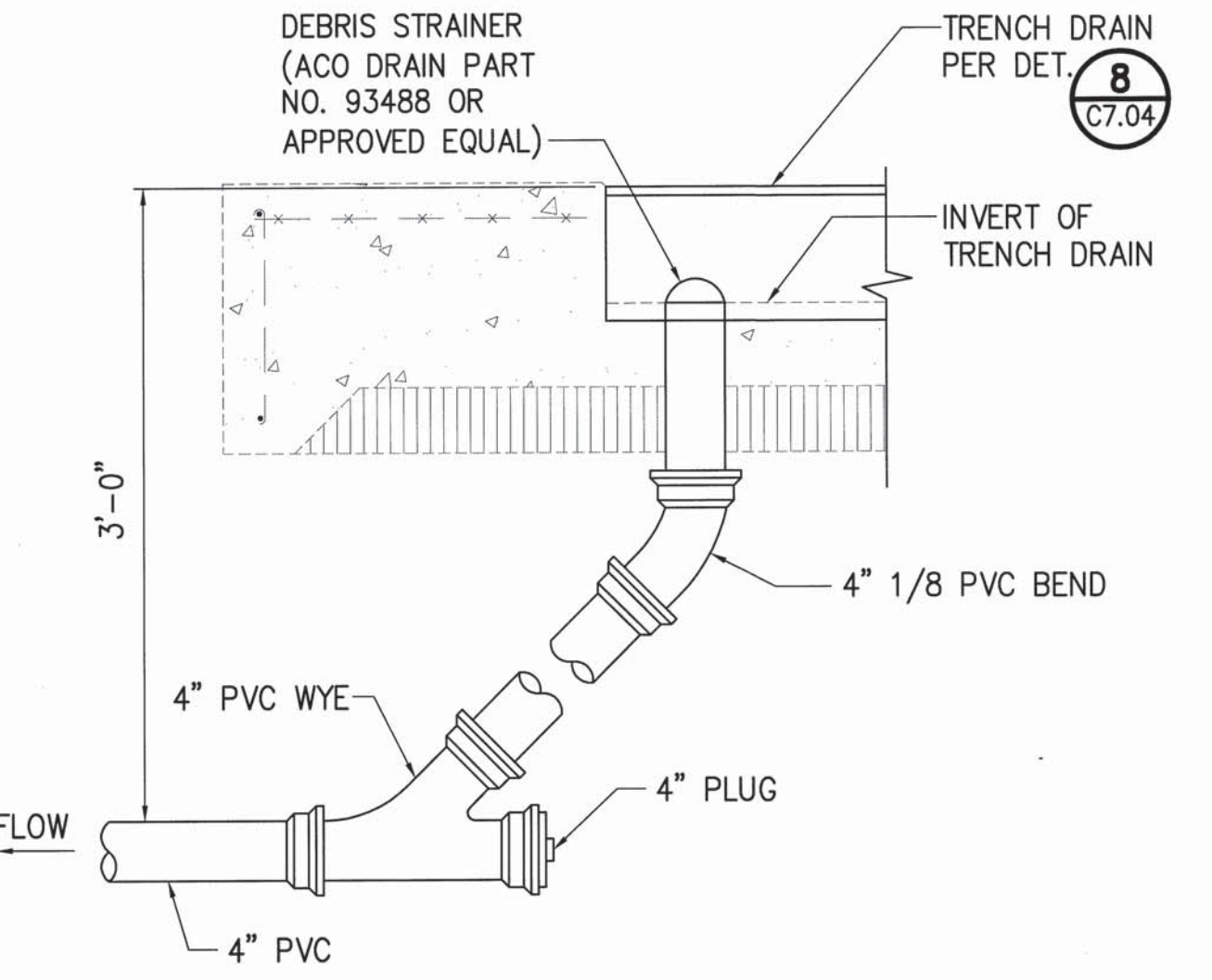


6 DROP CLEANOUT TO GRADE
C7.01 NOT TO SCALE

- REINFORCED CONC. JACKET NOTES:**
1. FOR CONC. REINFORCEMENT, SEE CHIMNEY DPW STD. DET. S-9.
 2. CLASS B CONC.



7 CLEANOUT TO GRADE
C7.01 NOT TO SCALE



8 TRENCH DRAIN CONNECTION
C7.01 NOT TO SCALE

1	Δ	BID AMENDMENT NO. 1	13/53	04/15/16	
REVISION NO.	SYM.	DESCRIPTION	SHT. OF	DATE	APPROVED
STATE OF HAWAII DEPARTMENT OF LAND AND NATURAL RESOURCES ENGINEERING DIVISION					
MAUI OFFICE ANNEX WAILUKU, MAUI, HAWAII					
DETAILS - 2					
DESIGNED: YT		SUBMITTED:			
DRAWN: YT		DATE: 03/15/2016			
CHECKED: YT		SCALE: AS SHOWN			
APPROVED: <i>Cyly</i>		DATE: APR 19 2016		DRAWING NO. C7.01	
CHIEF ENGINEER					

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