The Consolidated Borough of Quil Ceda Village

RFP: QCV-CPU-025-002

QCV Stormwater System Maintenance

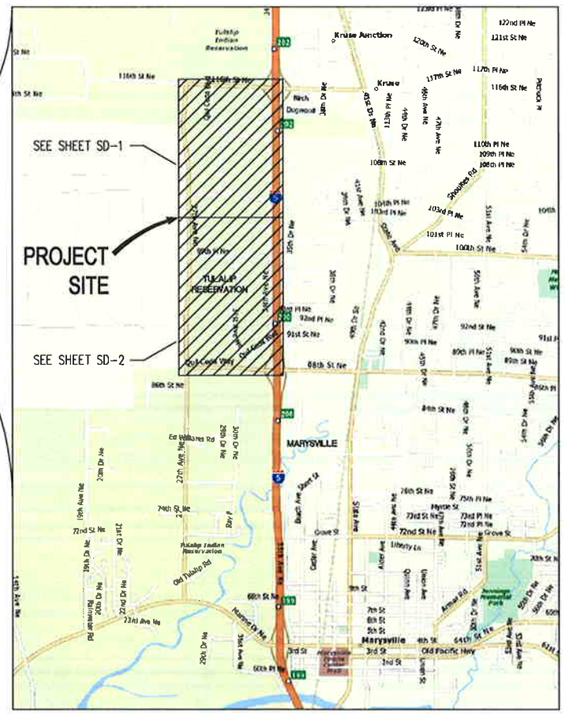
March 13, 2025

Addendum No. 2:

See attached plans for locations of assets and technical specifications.

Casey Wren

QCV Project Manager



QUIL CEDA VILLAGE BUSINESS PARK
STORMWATER MAINTENANCE PROJECT

SHEET INDEX

SHEET NO.	SHEET REF.	DESCRIPTION
1	CV-1	COVER SHEET
2	SD-1	NORTH STORMWATER AREA
3	SD-2	SOUTH STORMWATER AREA
4	SD-3	STORMWATER DETAILS
5	SD-4	STORMWATER DETAILS

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△ REVISIONS	DATE	BY

DESIGNED BY: W GOLOB
DRAWN BY: W GOLOB
APPROVED BY: R JEWELL
ISSUE DATE: 3-11-2010
JOB No.: 435-11
DRAWING FILE No.: 435-11 _CV-1.dwg

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ROBERT E. JEWELL
3-17-10

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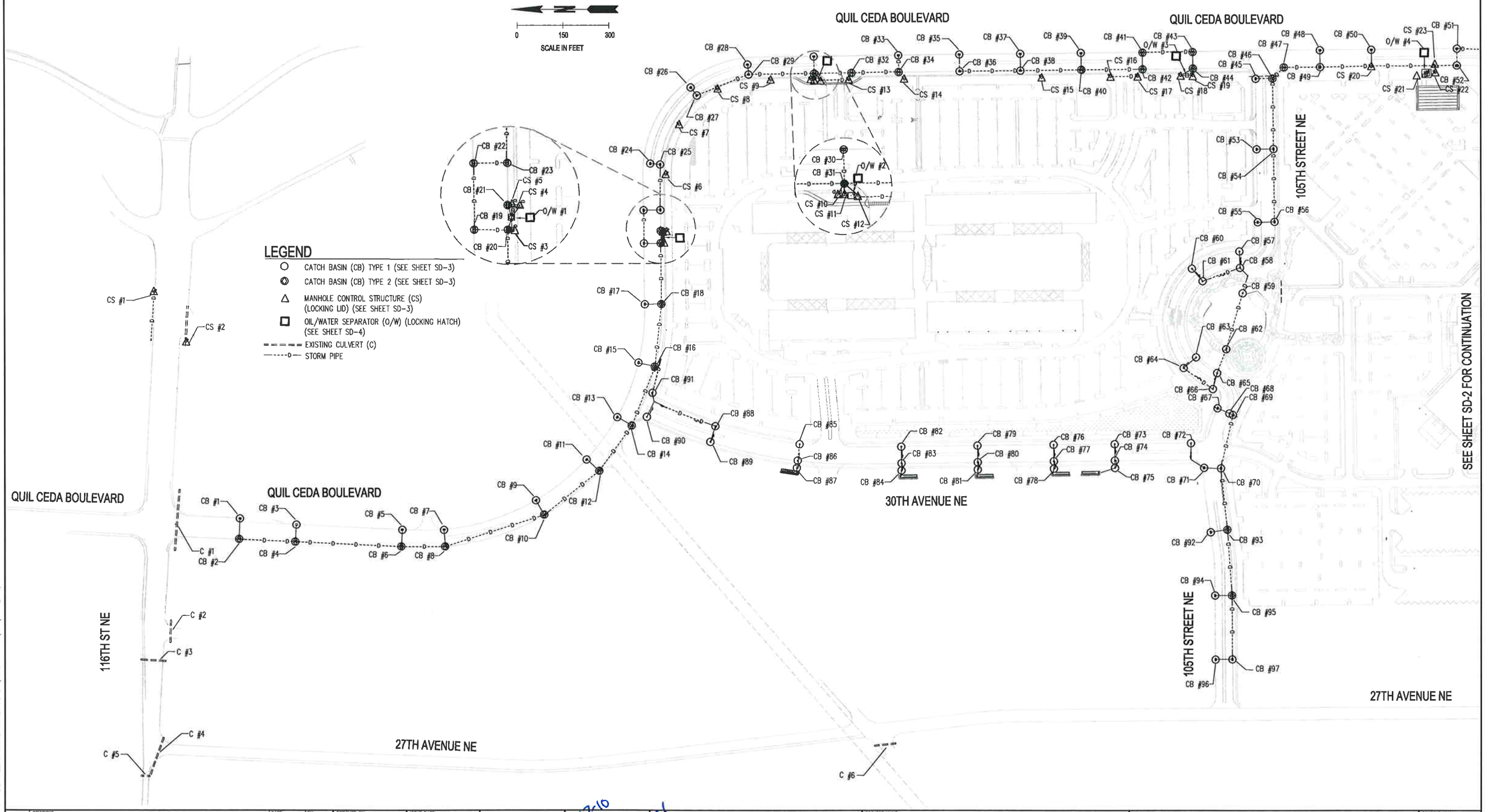
STORMWATER MAINTENANCE PROJECT

COVER SHEET

DRAWING No.: CV-1
SHEET No.: 1 OF 5



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PROJECT NAME:

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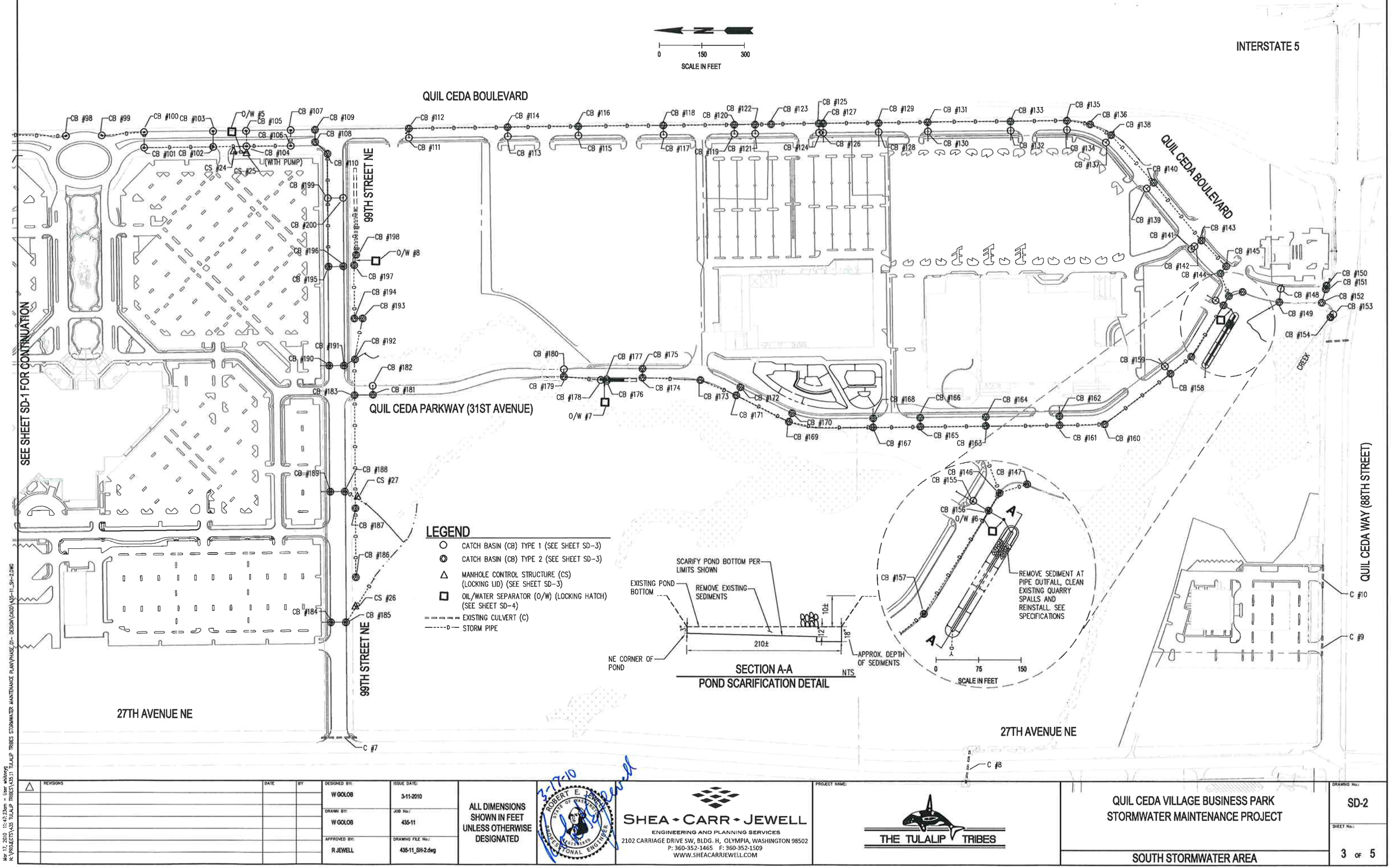
QUIL CEDA VILLAGE BUSINESS PARK
STORMWATER MAINTENANCE PROJECT

NORTH STORMWATER AREA

DRAWING No.: SD-1

SHEET No.: 2 OF 5



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SOUTH STORMWATER AREA

DRAWING No.: SD-2

SHEET No.: 3 OF 5

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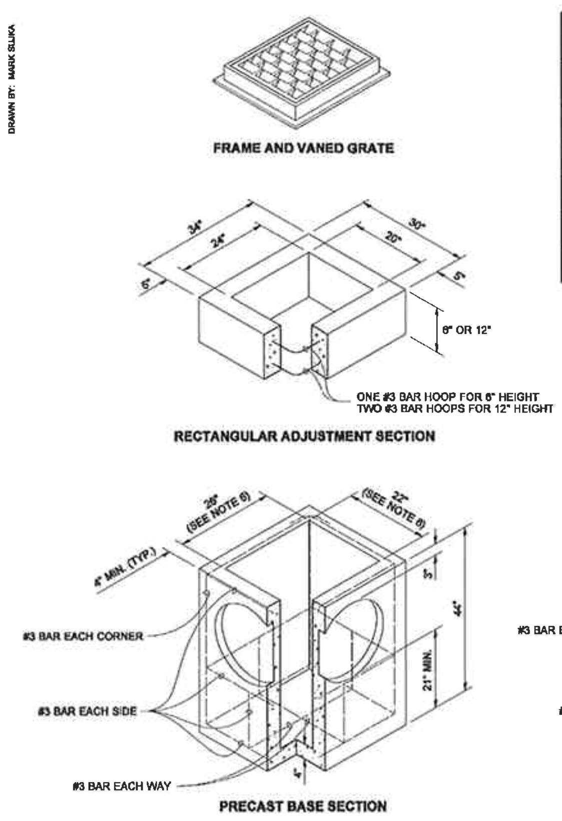
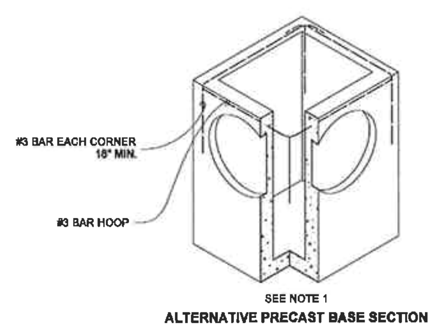


PIPE ALLOWANCES	
PIPE MATERIAL	MAXIMUM INSIDE DIAMETER
REINFORCED OR PLAIN CONCRETE	12"
ALL METAL PIPE	15"
CPSSP * (STD. SPEC. 9-05.20)	12"
SOLID WALL PVC (STD. SPEC. 9-05.12(1))	15"
PROFILE WALL PVC (STD. SPEC. 9-05.12(2))	15"

* CORRUGATED POLYETHYLENE STORM SEWER PIPE

NOTES

1. As acceptable alternatives to the rebar shown in the **PRECAST BASE SECTION,** fibers (placed according to the Standard Specifications), or wire mesh having a minimum area of 0.12 square inches per foot shall be used with the minimum required rebar shown in the **ALTERNATIVE PRECAST BASE SECTION.** Wire mesh shall not be placed in the knockouts.
2. The knockout diameter shall not be greater than 20". Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.
3. The maximum depth from the finished grade to the lowest pipe invert shall be 5'.
4. The frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
5. The Precast Base Section may have a rounded floor, and the walls may be sloped at a rate of 1:24 or steeper.
6. The opening shall be measured at the top of the precast base section.
7. All pickup holes shall be grouted full after the basin has been placed.



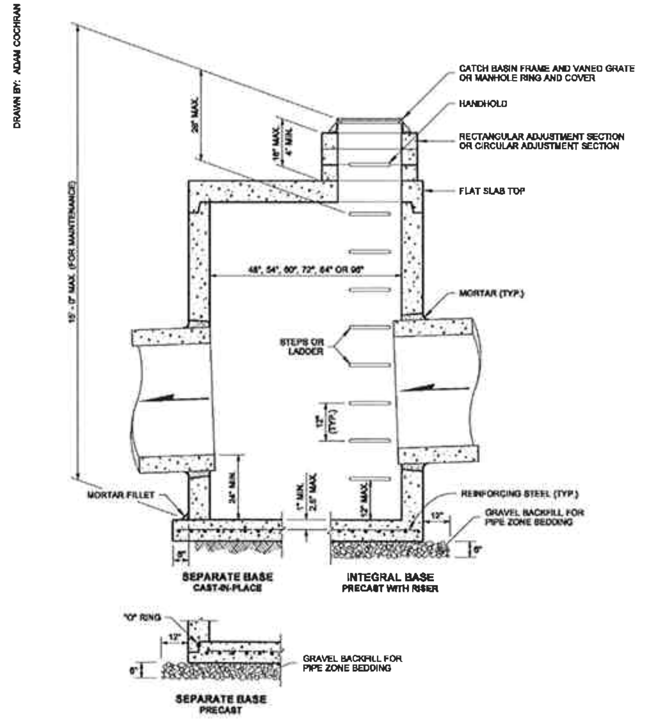
ALTERNATIVE PRECAST BASE SECTION

CATCH BASIN TYPE 1

STANDARD PLAN B-5.20-00

SHEET 1 OF 1 SHEET

APPROVED FOR PUBLICATION
Harold J. Peterfeso 06-01-06
STATE DESIGN ENGINEER DATE
Washington State Department of Transportation



NOTES

1. No steps are required when height is 4' or less.
2. The bottom of the precast catch basin may be sloped to facilitate cleaning.
3. The rectangular frame and grate may be installed with the flange up or down. The frame may be cast into the adjustment section.
4. Knockouts shall have a wall thickness of 2" minimum to 2.5" maximum. Provide a 1.5" minimum gap between the knockout wall and the outside of the pipe. After the pipe is installed, fill the gap with joint mortar in accordance with Standard Specification 9-04.3.

CATCH BASIN DIMENSIONS						
CATCH BASIN DIAMETER	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS	BASE REINFORCING STEEL in²/ft. IN EACH DIRECTION	
					SEPARATE BASE	INTEGRAL BASE
48"	4"	6"	36"	8"	0.23	0.15
54"	4.5"	8"	42"	8"	0.19	0.19
60"	5"	8"	48"	8"	0.25	0.25
72"	6"	8"	60"	12"	0.35	0.24
84"	8"	12"	72"	12"	0.39	0.29
96"	8"	12"	84"	12"	0.39	0.29

PIPE ALLOWANCES					
CATCH BASIN DIAMETER	PIPE MATERIAL WITH MAXIMUM INSIDE DIAMETER				
	CONCRETE	ALL METAL	CPSSP ①	SOLID WALL PVC ②	PROFILE WALL PVC ③
48"	24"	30"	24"	27"	30"
54"	30"	36"	30"	27"	36"
60"	36"	42"	36"	36"	42"
72"	42"	54"	42"	36"	48"
84"	54"	60"	54"	36"	48"
96"	60"	72"	60"	36"	48"

① Corrugated Polyethylene Storm Sewer Pipe (Std. Spec. 9-05.20)
② (Std. Spec. 9-05.12(1))
③ (Std. Spec. 9-05.12(2))

CATCH BASIN TYPE 2

STANDARD PLAN B-10.20-00

SHEET 1 OF 1 SHEET

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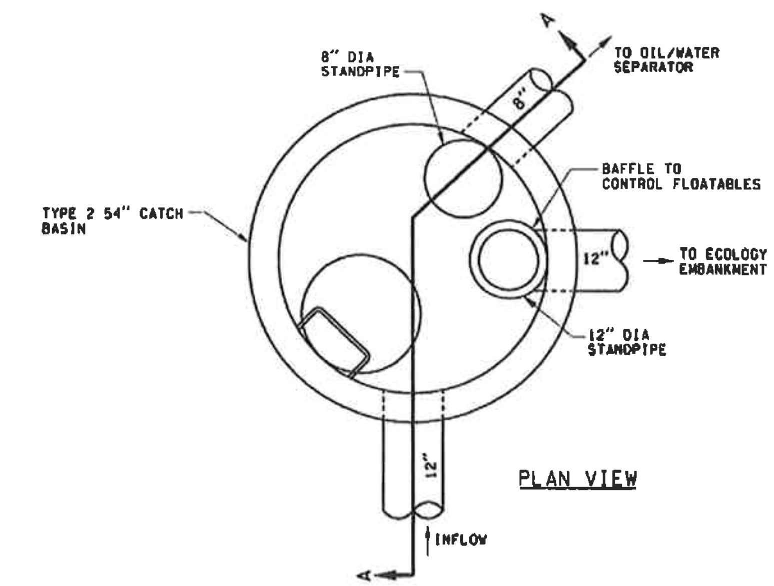
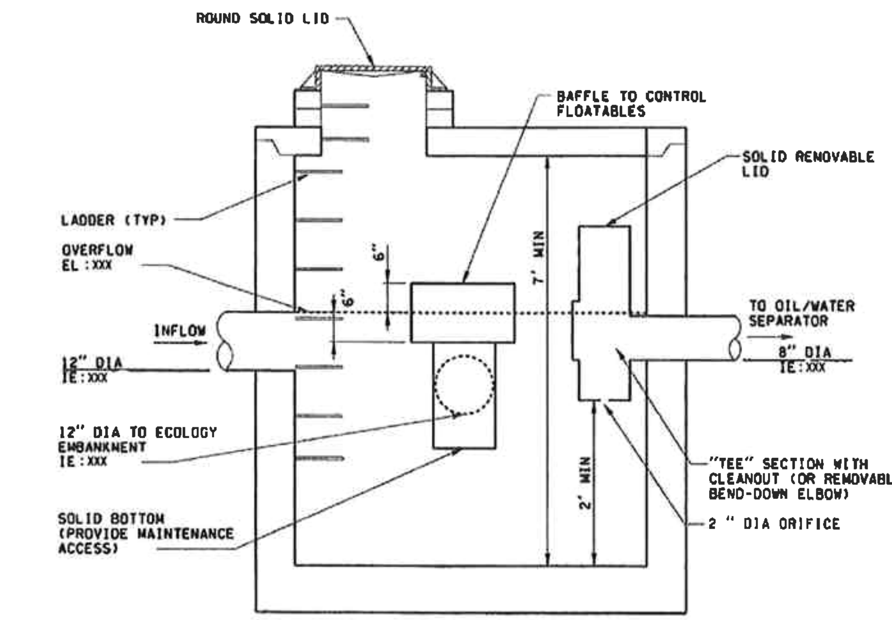


PLAN VIEW



SECTION A-A

FLOW SPLITTER

NOT TO SCALE

TYPICAL MANHOLE CONTROL STRUCTURE DETAIL

NTS

INFORMATION DETAILS ONLY
(NOT FOR CONSTRUCTION)

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PROJECT NAME:
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QUIL CEDA VILLAGE BUSINESS PARK
STORMWATER MAINTENANCE PROJECT

STORMWATER DETAILS

DRAWING No.: SD-3

SHEET No.: 4 OF 5

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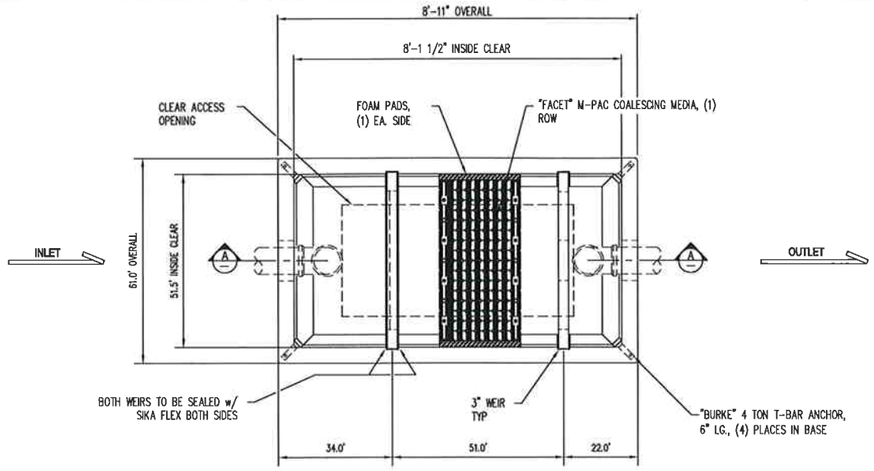
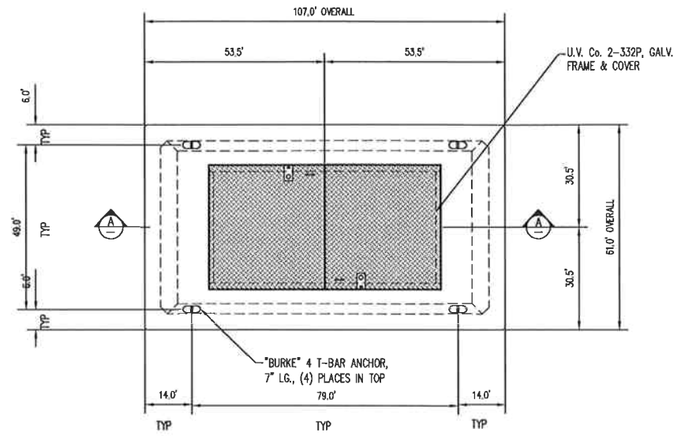


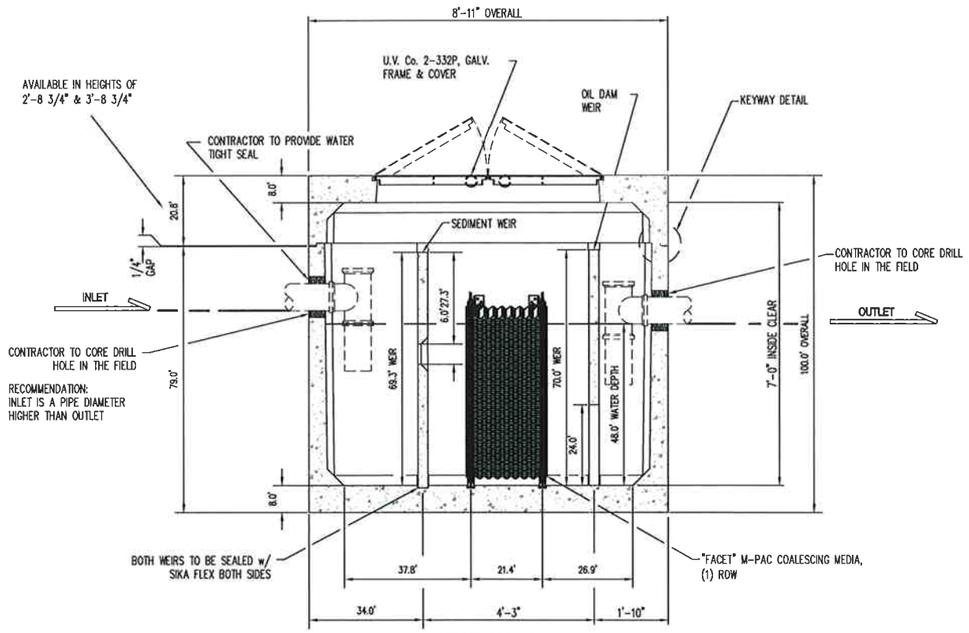
PLAN VIEW

TOP SECTION NOT SHOWN
SEE DETAILS AT RIGHT



COVER PLAN

TOP SECTION STANDARD HEIGHTS ARE 1'-8 3/4"
2'-8 3/4" & 3'-8 3/4" (MAXIMUM)
(SEE SECTION AA)



SECTION AA

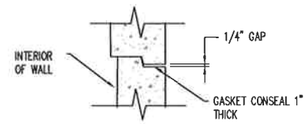
"BURKE" 4 TON T-BAR ANCHOR,
6" LG., (4) PLACES IN BASE
NOT SHOWN FOR CLARITY

STRUCTURAL NOTES

1. CONCRETE – 28 DAY COMPRESSIVE STRENGTH f'c = 4500 psi
2. REBAR – ASTM A-615 GRADE 60
3. MESH – ASTM A-185 GRADE 65
4. DESIGN – ACI-318-99 BUILDING CODE
   ASTM C-890 "MINIMUM STRUCTURAL DESIGN LOADING FOR MONOLITHIC OR SECTIONAL PRECAST CONCRETE WATER AND WASTEWATER STRUCTURES"
5. LOADS – AASHTO HS-20 WHEEL LOAD, P = 16.0 kips
   30% IMPACT FOR LESS THAN 3'-0" SOIL COVER
   120 pcf SOIL DENSITY
   40 pcf E.F.P. LATERAL SOIL PRESSURE ABOVE WATERTABLE
   80 pcf E.F.P. LATERAL SOIL PRESSURE BELOW WATERTABLE
   80 psf LIVE LOAD SURCHARGE
   TOP OF VAULT AT GRADE
   WATERTABLE 5'-0" BELOW GRADE
   WATERTABLE 0'-10" BELOW GRADE FOR BUOYANCY

GENERAL NOTES

1. PRODUCTION QUANTITIES: 1 SEPARATOR REQ'D
2. WATER DEPTH = 4'-0"
3. CONTRACTOR TO:
   CORE DRILL INLET & OUTLET HOLES
   GROUT IN ALL PIPES (USING NON-SHRINK GROUT)
   SUPPLY & INSTALL INLET & OUTLET PIPING
   (INCLUDING PIPE ELBOW & SAMPLING TEE)
   FILL w/ CLEAN WATER PRIOR TO "START UP" OF SYSTEM
   VERIFY ALL BLOCKOUT SIZES AND LOCATIONS
4. SEE U.V. Co. DWG CK-0979 FOR REINFORCING DETAILS



KEYWAY DETAIL

LIFTING INSERTS

TOP SECTION = (4) 4-TON T-BAR ANCHOR (7" LG.)
BASE SECTION = (4) 4-TON T-BAR ANCHOR (6" LG.)

SHIPPING WEIGHTS

TOP SECTION = (1'-8 3/4") 5,331 lbs.
BASE SECTION (5' DEEP) = 17,168 lbs.
(INCLUDES BAFFLES & M-PACS)
TOTAL WEIGHT = 22,499 lbs.

SHOP NOTES:
SOLID WALL CONSTRUCTION
REMOVE ALL PANS & KNOCKOUTS
STD. TOP SECTION HEIGHT w/ 8" SLAB THICKNESS
STD. BASE SECTION HEIGHT w/ 8" SLAB THICKNESS

Oldcastle Precast®

TYPICAL OIL WATER SEPARATOR DETAIL

NTS

INFORMATION DETAILS ONLY (NOT FOR CONSTRUCTION)

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STORMWATER DETAILS

DRAWING No.: SD-4
SHEET No.: 5 OF 5