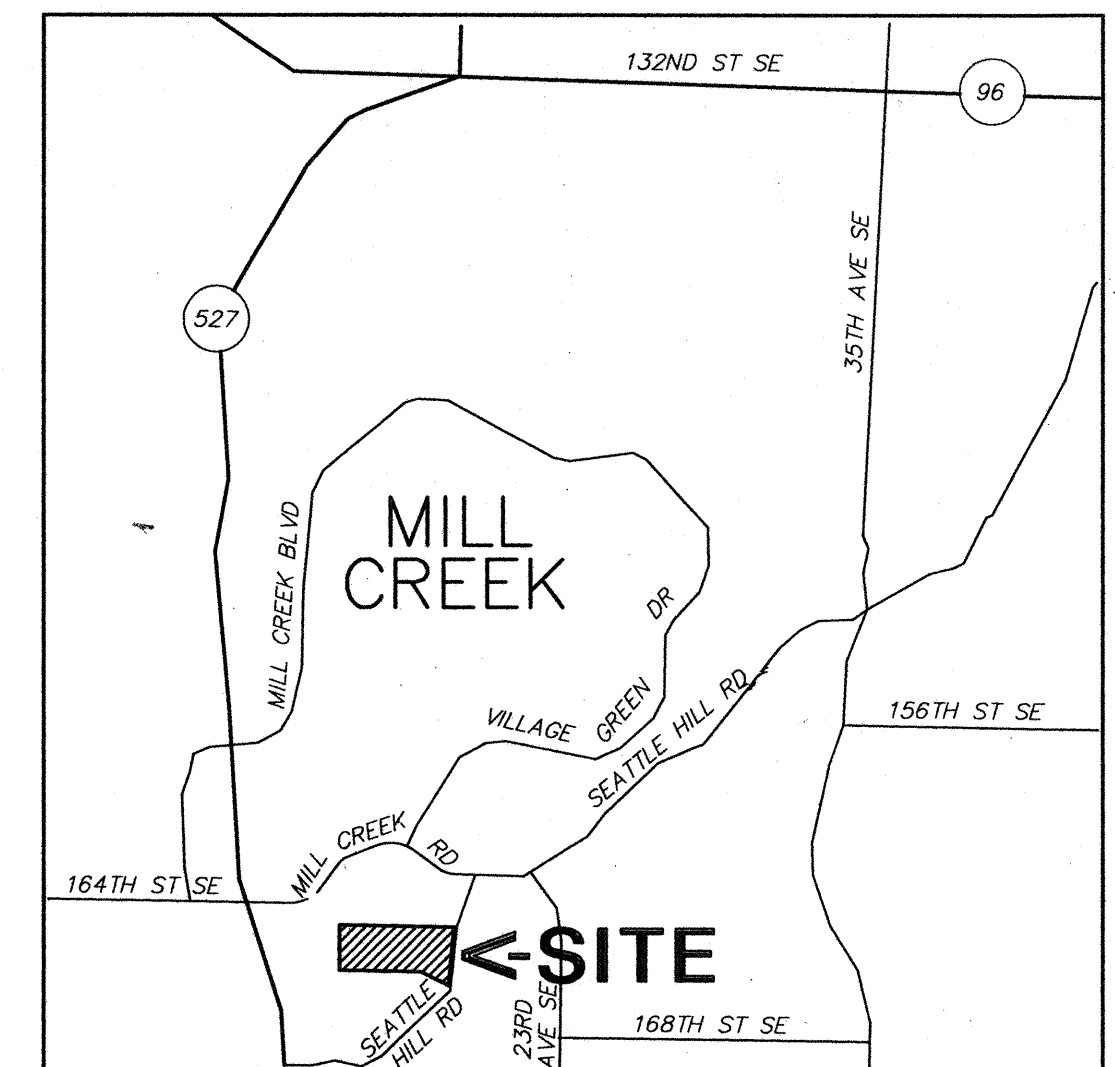
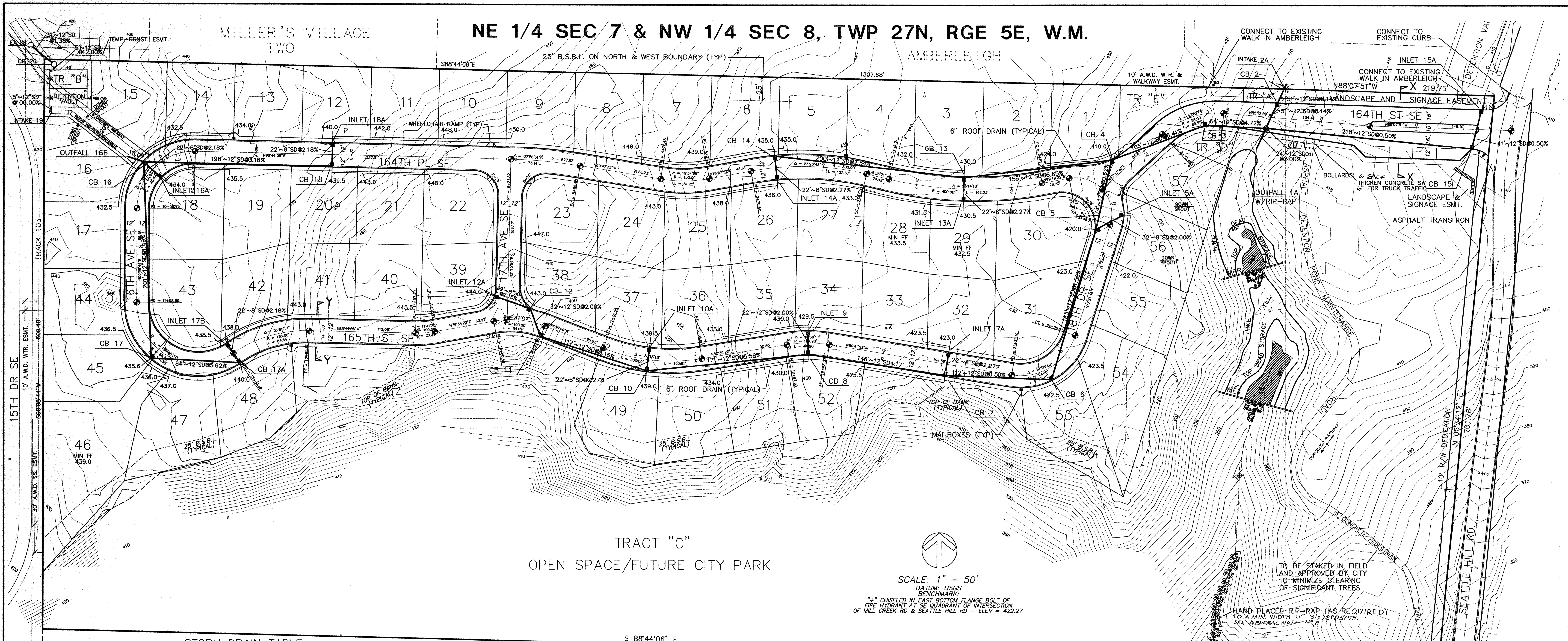


[illegible]

VICINITY MAP

SCALE: 1" = 2560'

The word "WINSLOW" is rendered in a highly stylized, graphic font. Each letter is constructed from numerous thin, parallel lines that are closely spaced together. The lines are oriented horizontally, creating a sense of depth and texture. The overall effect is a minimalist yet complex representation of the word, where the individual lines contribute to the overall shape and weight of each character. The letters are white against a dark background, making them stand out prominently.



STORM DRAIN TABLE

STRUCTURE	STA	OFFSET	TOP	INVERT	PIPE	NOTES
OUTFALL 1A	2+66	35'LT	---	403.63	12	W/RIIP-RAP
CB 1	2+59	12'LT	412.50	408.00	12	TYPE II ~54"Ø
				405.50	12	W/SOLID LOCKING LID &
				404.45	6	OIL/WATER SEPARATOR
				403.95	12	
INTAKE 2A	2+43	31'RT	---	412.40	12	W/TRASH SCREEN
CB 2	2+48	15'RT	412.29	410.00	12	TYPE II ~54"Ø
				405.00	12	
CB 3	3+25	12'RT	415.51	411.50	12	
CB 4	4+32	16'RT	423.56	418.68	12	
CB 5	23+36	11'LT	423.14	419.47	8	W/THRU CURB INLET
				419.14	12	
INLET 5A	23+56	11'RT	423.14	420.11	8	
CB 6	21+75	11'LT	428.56	421.81	12	TYPE II ~48"Ø
CB 7	20+68	11'LT	426.37	422.70	8	W/THRU CURB INLET
				422.37	12	
INLET 7A	20+68	11'RT	426.37	423.20	8	W/THRU CURB INLET
CB 8	19+20	11'LT	432.46	428.79	8	
				428.46	12	
INLET 9	19+20	11'RT	432.46	429.23	8	
CB 10	17+50	11'RT	442.34	438.34	8	
				438.01	12	
INLET 10A	17+50	11'LT	442.34	438.84	8	
CB 11	16+35	11'LT	446.63	441.71	12	
CB 12	16+16	11'LT	447.29	442.68	8	
				442.35	12	
INLET 12A	1+40	11'RT	447.40	443.52	8	W/THRU CURB INLET
CB 13	1+50	11'RT	443.37	429.70	8	
				429.37	12	
INLET 13A	1+50	11'LT	443.37	430.20	8	
CB 14	3+50	11'RT	438.44	434.77	8	
				434.44	12	
INLET 14A	3+50	11'LT	438.44	435.27	8	
CB 15	0+41	20'LT	408.26	405.04	12	W/THRU CURB INLET
INLET 15A	0+32	20'RT	408.26	405.25	12	W/THRU CURB INLET
OUTFALL 16B	10+17	22'RT	---	431.11	12	W/RIIP-RAP
CB 16	10+15	11'RT	435.50	432.88	8	W/THRU CURB INLET
				432.55	12	
INLET 16A	10+15	11'LT	435.50	433.36	8	W/THRU CURB INLET
CB 17	12+16	11'RT	440.44	435.54	12	
CB 17A	13+00	11'RT	444.24	440.59	8	
				440.26	12	
INLET 17B	13+00	11'LT	444.24	441.07	8	
CB 18	8+20	11'RT	443.71	439.14	8	
				438.81	12	
INLET 18A	8+20	11'LT	443.71	439.62	8	
INTAKE 19	---	---	---	423.00	12	W/TRASH SCREEN
CB 20	---	---	---	422.00	12	TYPE II ~72"Ø

CURVE	RADIUS	LENGTH	DELTA
C1	38.00'	38.02'	57°19'51"
C2	38.00'	39.93'	60°12'36"

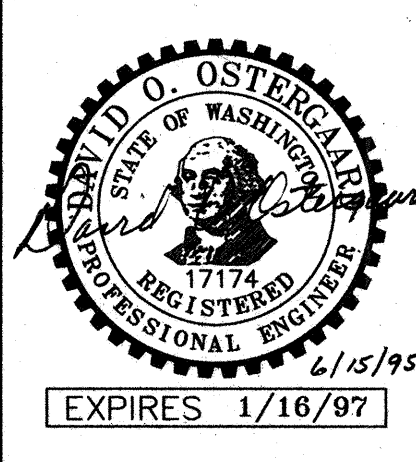
*Mailbox locations
approved 5-9-95
Bunnell
Booth PO*

NO.	REVISION	DATE
1	PER CITY/CLIENT REVIEW	5/19/95
2	PER CLIENT REVIEW	5/30/95
3	PER CITY REVIEW	6/9/95
4	PER CITY REVIEW	6/23/95

Sheet	2 of 11	Designed	ME
Job No.	94145	Drawn	
		Submitted	
		Approved	

G.W.C.
Land Development Consulting

8888 45th Pl. W.
Mukilteo, Wa. 98275
347-4627 & 828-9881



OSTERGAARD & ASSOC. INC. CONSULTING ENGINEERS

3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5854

WINSLOW
ROAD + STORM DRAINAGE
PLAN

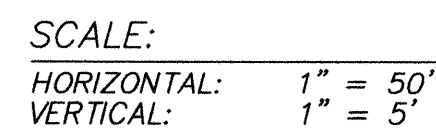
CITY OF MILL CREEK WASHINGTON

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY *[Signature]* 5/29/95

POSTMASTER
ORIGINAL ON FILE AT
OSTERGAARD & ROBINSON ASSOC.

HDEV-474

HDEV-475



NO.	REVISION	DATE
1	PER CITY/CLIENT REVIEW	5/19/95
2	PER CLIENT REVIEW	5/30/95
3	PER CITY REVIEW	6/9/95

Sheet	3 of 11	Designed	_____
		Drawn	ME _____
		Submitted	_____
Job No.	94145	Approved	_____



**OSTERGAARD • ROBINSON
& ASSOC. INC. CONSULTING ENGINEERS**

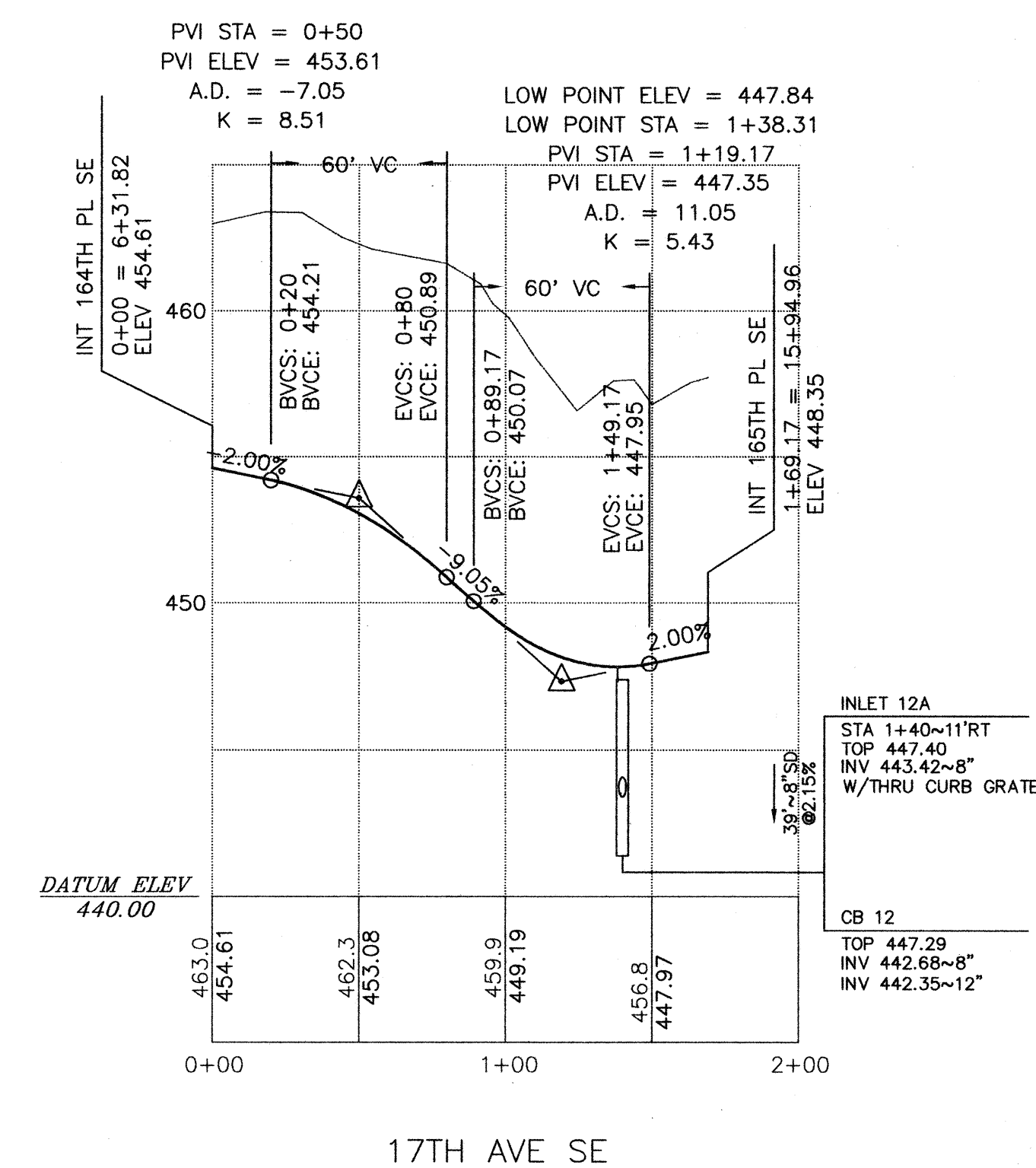
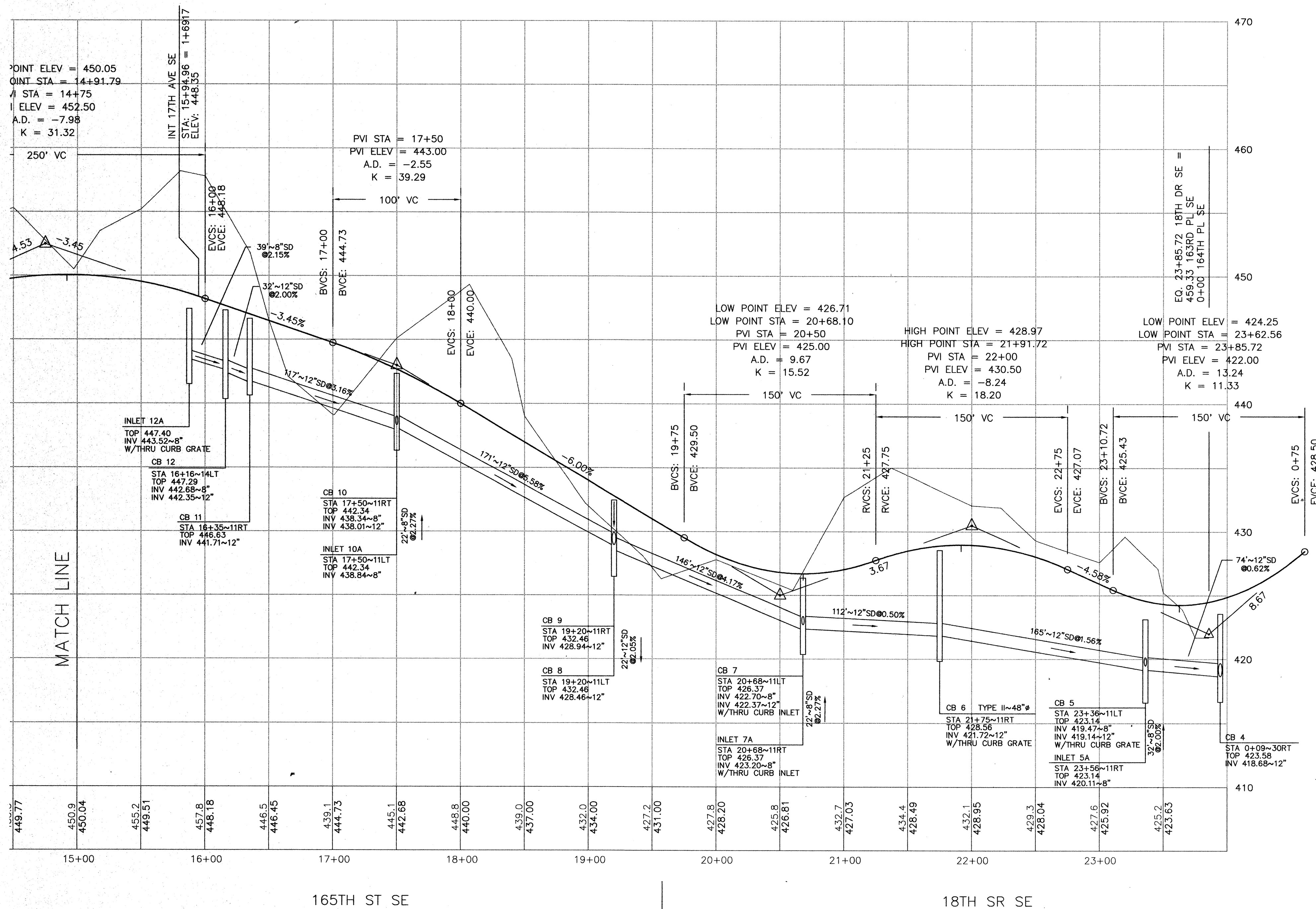
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5854

WINSLOW

**ROAD + STORM DRAINAGE
PROFILE**

CITY OF MILL CREEK WASHINGTON

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.

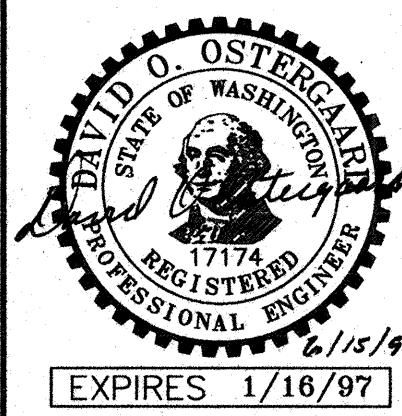


SCALE:
 HORIZONTAL: 1" = 50'
 VERTICAL: 1" = 5'

CITY OF MILL CREEK
 APPROVED FOR CONSTRUCTION
 BY *[Signature]* 2/12/95

NO.	REVISION	DATE
1	PER CITY/CLIENT REVIEW	5/19/95
2	PER CLIENT REVIEW	5/30/95
3	PER CITY REVIEW	6/16/95
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G.W.C.
 Land Development Consulting
 8888 45th Pl. W.
 Mukilteo, Wa. 98275
 347-4627 & 828-9881



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WINSLOW
 ROAD + STORM DRAINAGE
 PROFILE
 CITY OF MILL CREEK WASHINGTON

HDEV-476

[illegible]

SCALE:

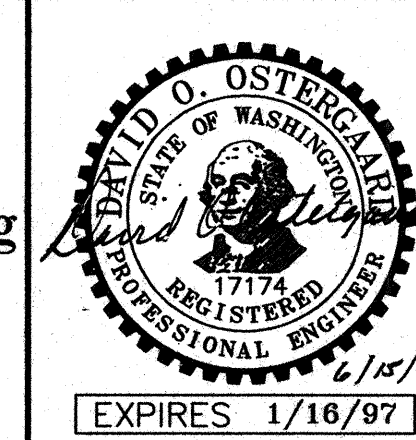
HORIZONTAL: 1" = 50'

VERTICAL: 1" = 5'

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY Wm. S. [Signature] 29 June 98

Sheet	5 of 11	Designed	_____
		Drawn	ME
Job No.	94145	Submitted	_____
		Approved	_____

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Mukilteo, Wa. 98275
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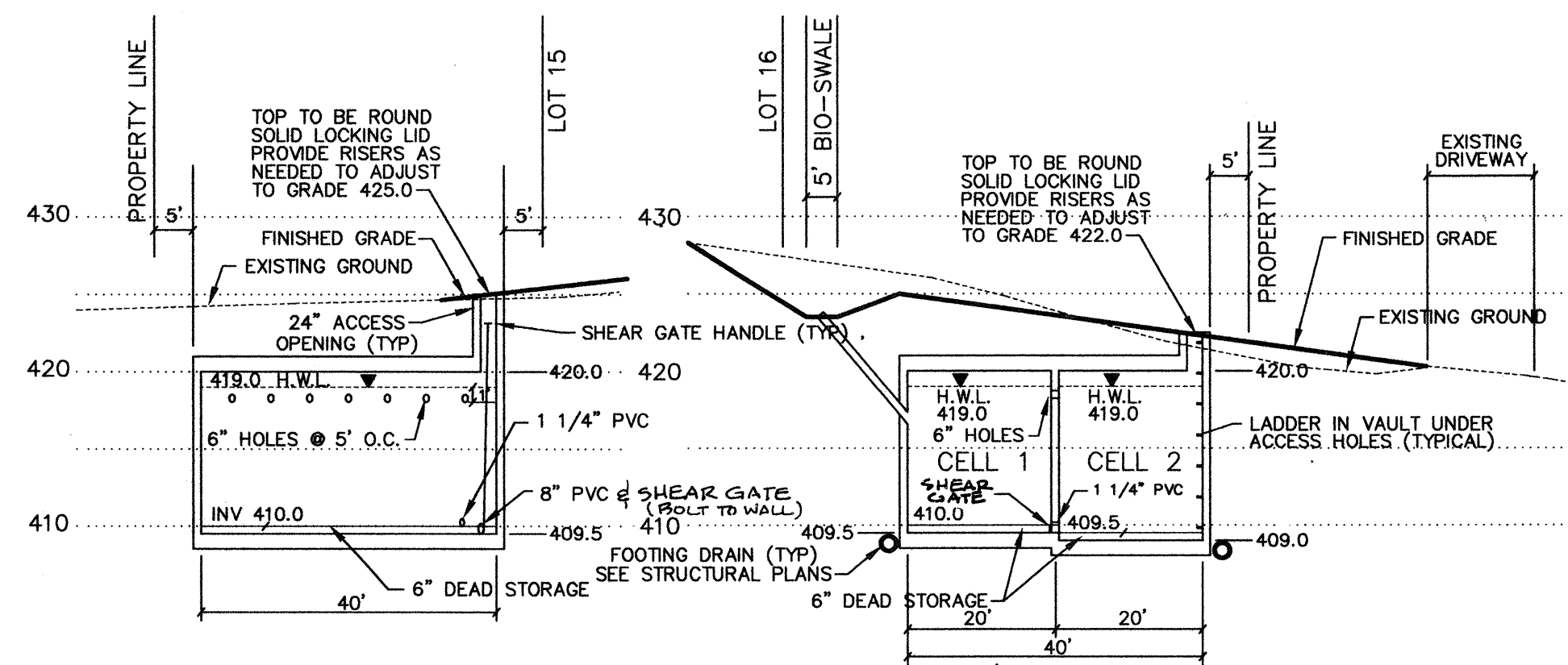
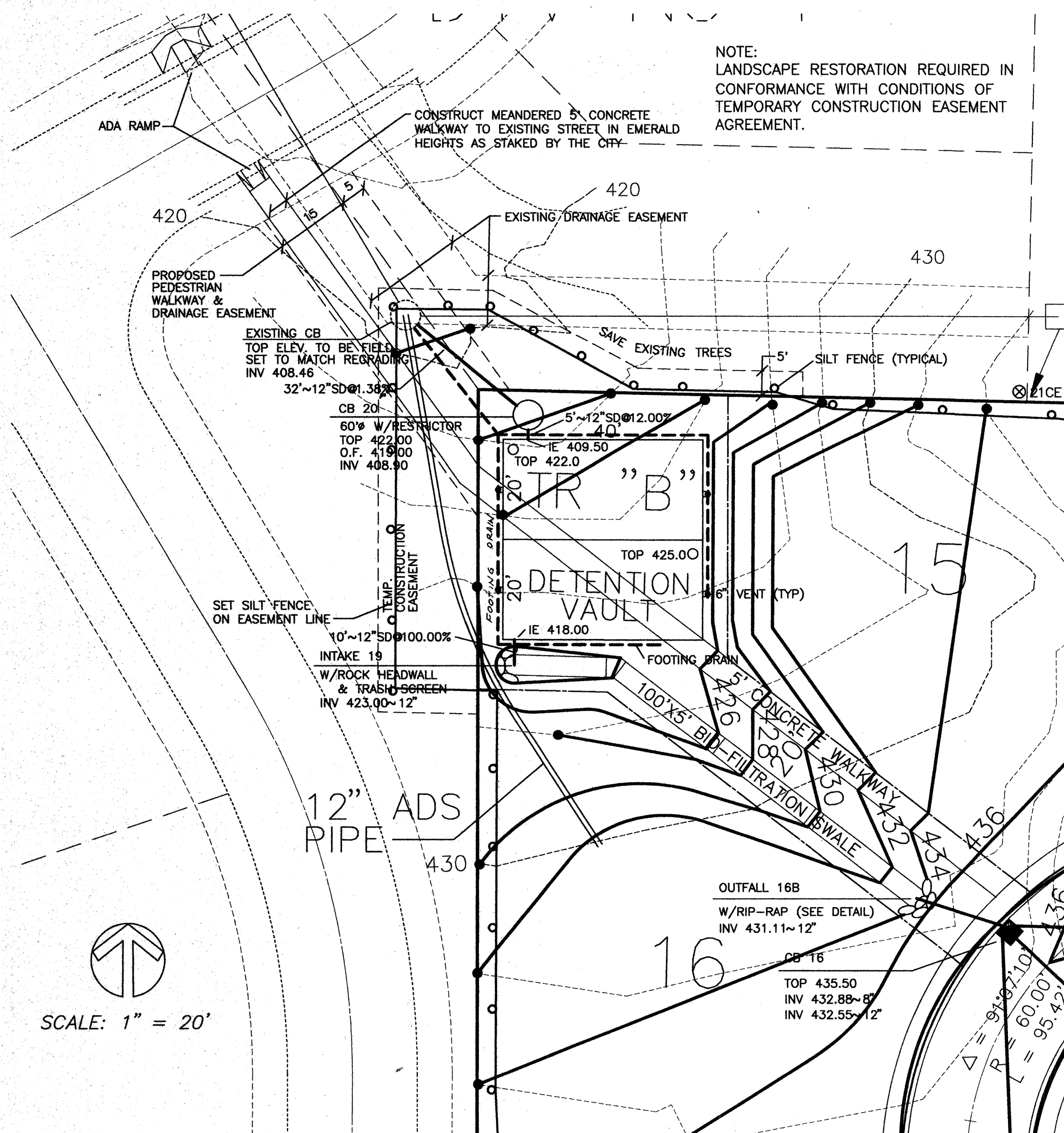
WINSLOW

ROAD + STORM DRAINAGE PROFILE

CITY OF MILL CREEK WASHINGTON

HDEV-477

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.

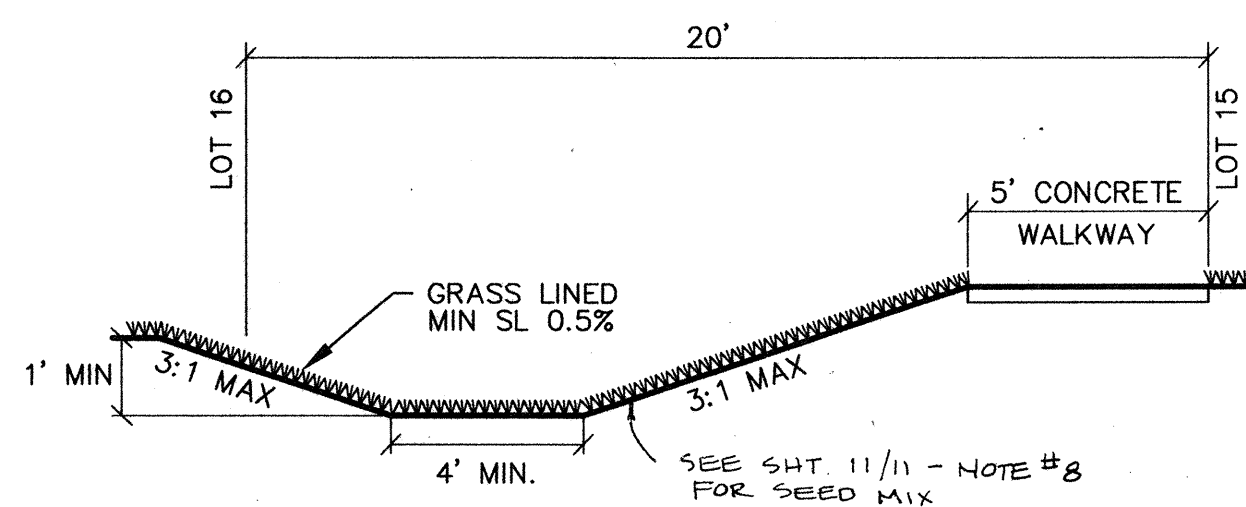


SECTION A-A
CELL 1

SCALE:

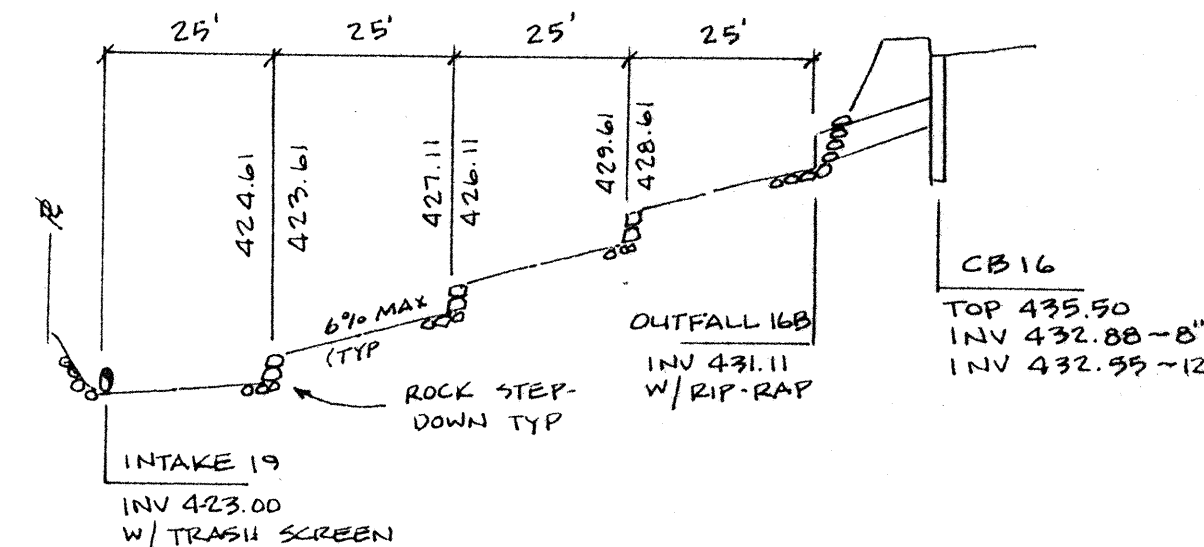
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VERTICAL: 1" = 10'

SECTION B-B

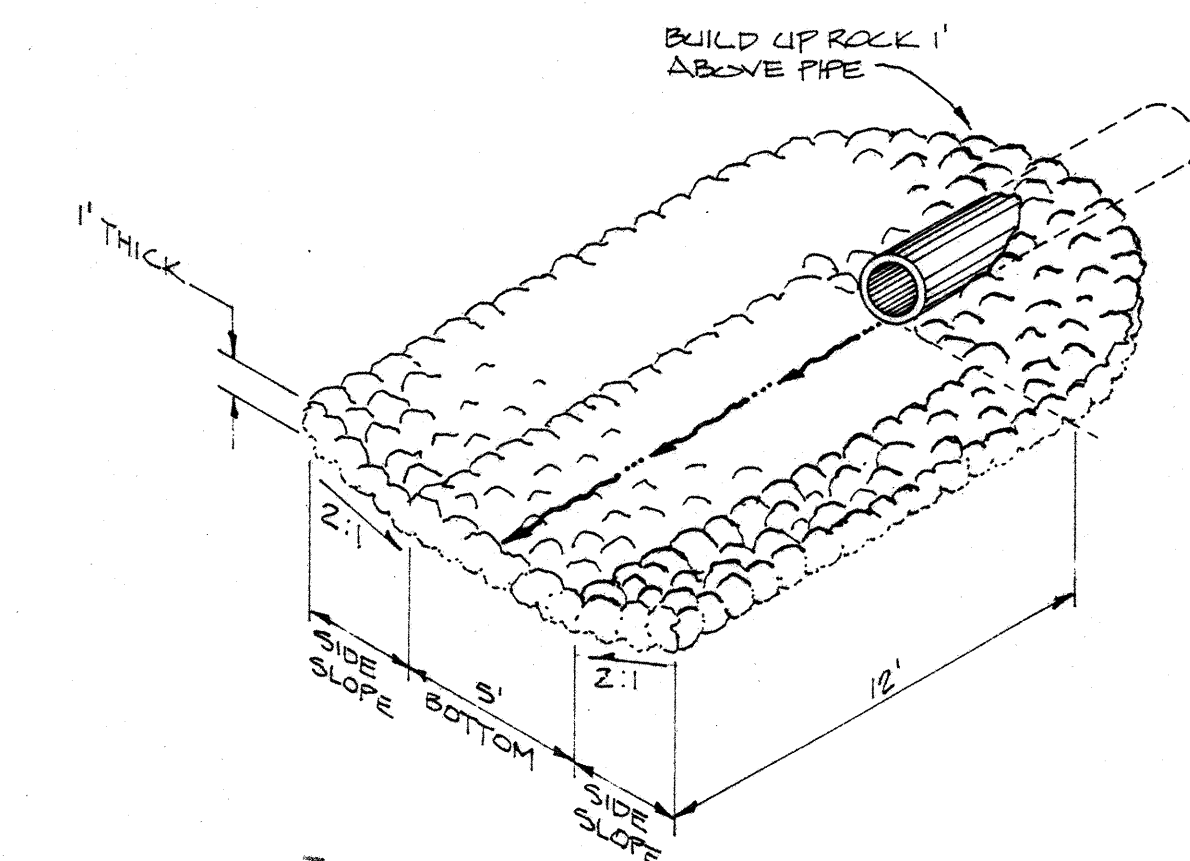


SECTION C-C
GRASS LINED BROAD SWALE
(BIO FILTER)

SCALE: 1" = 4'

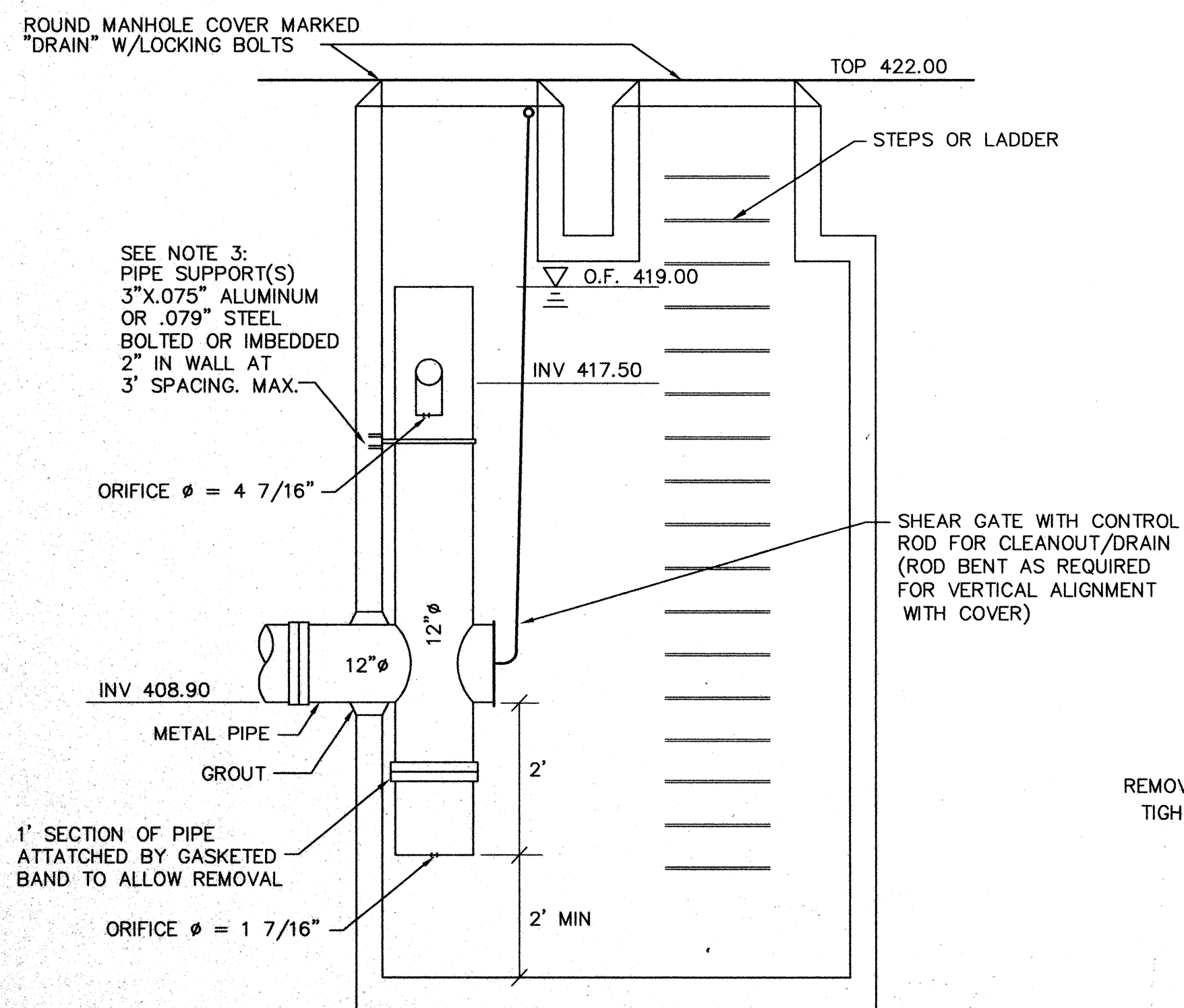


PROFILE - BIO-FILTRATION SWALE

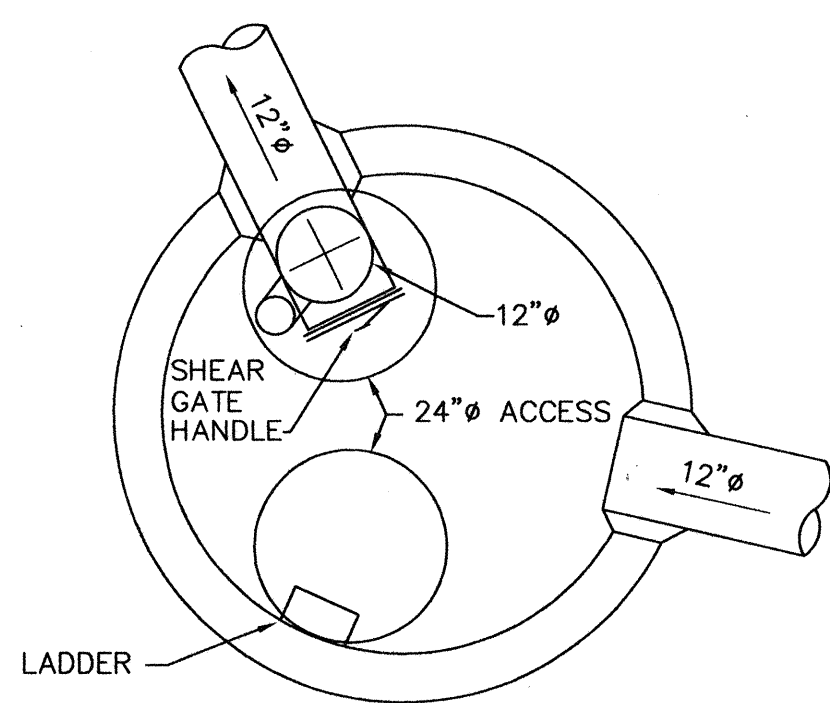


RIPRAP DETAIL

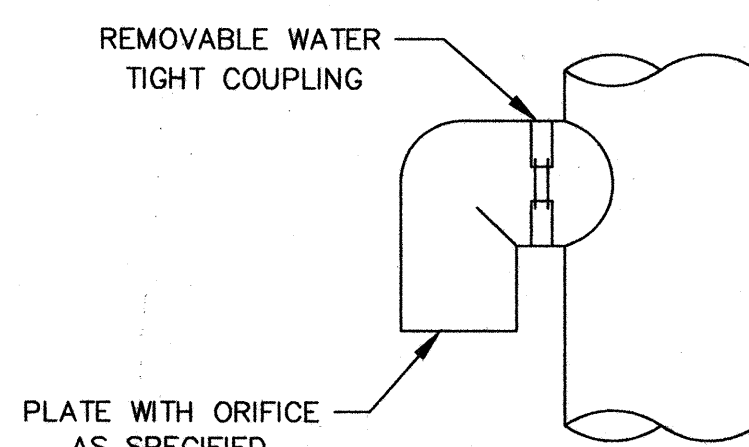
N.T.S.



RESTRICTOR DETAILS



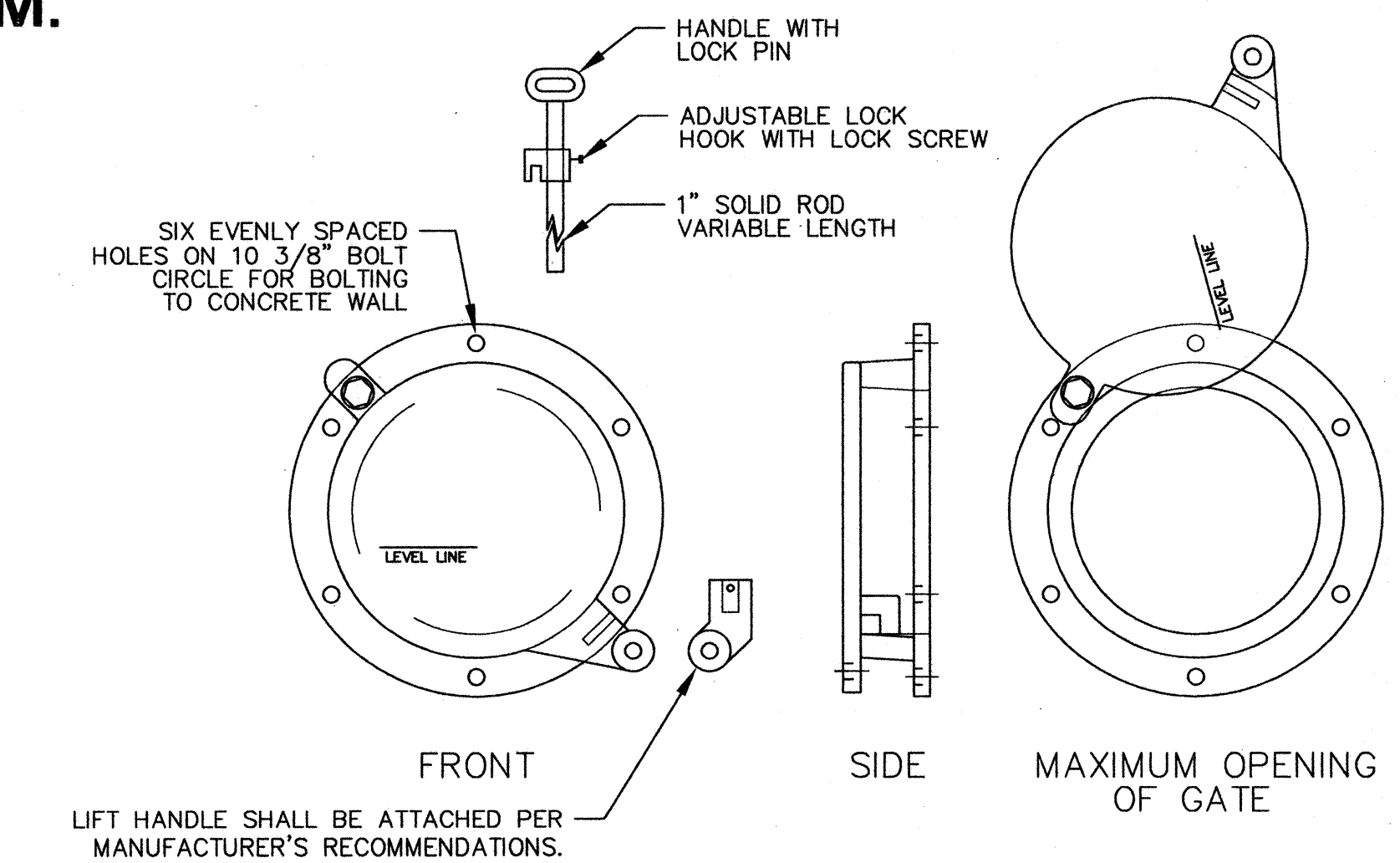
CB 20
60"Ø W/RESTRICTOR
SCALE: 1" = 2'



ELBOW DETAIL
N.T.S.

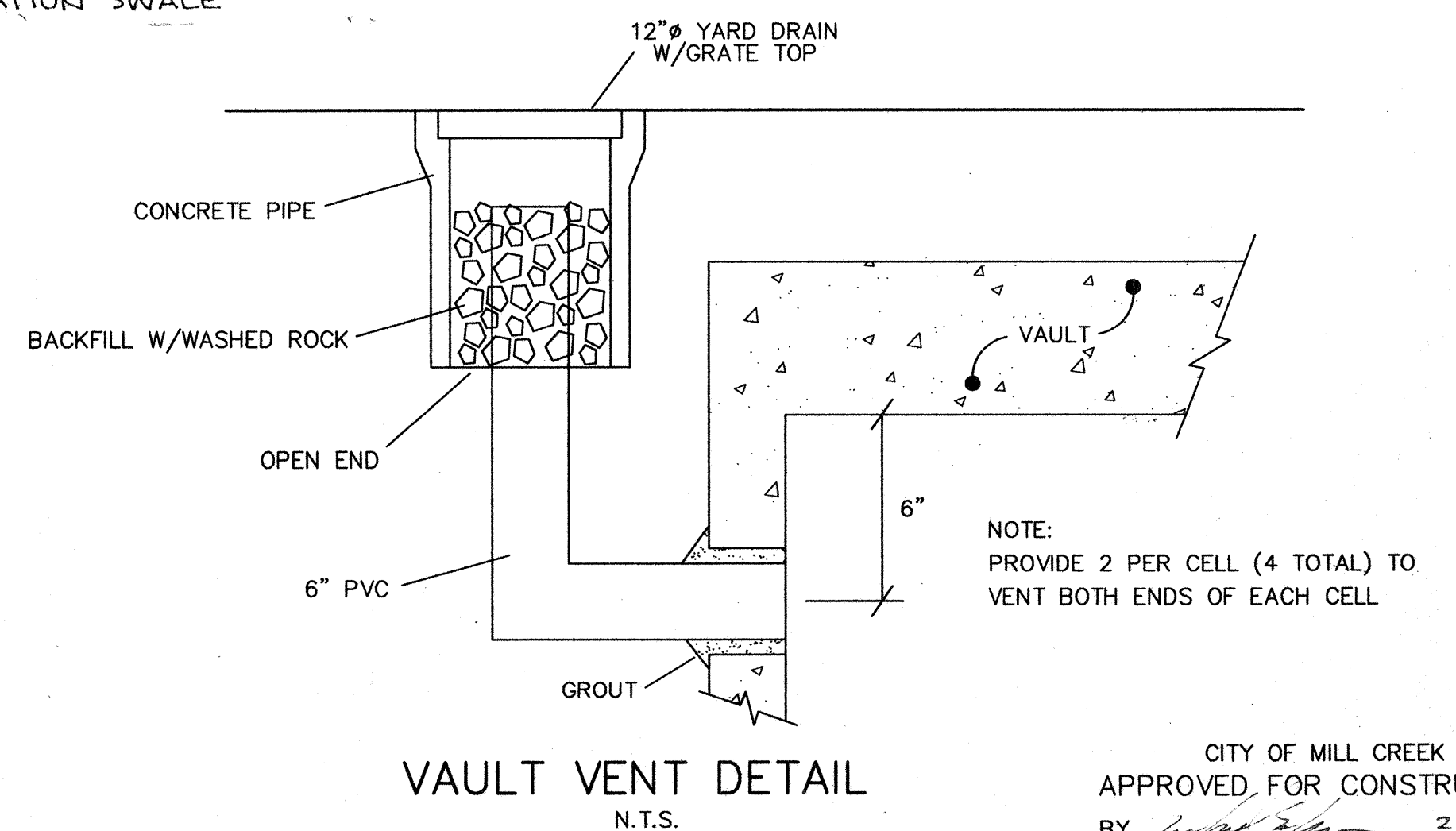
- ## NOTES

1. THE RESTRICTOR/SEPARATOR AND PIPE SUPPORTS SHALL BE OF THE SAME MATERIAL AND SHALL BE FABRICATED FROM .060" ALUMINUM IN ACCORDANCE WITH AASHTO M 36, M 196, M 197 AND M 274.
2. OUTLET SHALL BE CONNECTED TO CULVERT OR SEWER PIPE WITH A STANDARD COUPLING BAND FOR CORRUGATED METAL PIPE OR GROUTED INTO THE BELL OF CONCRETE PIPE.
3. THE VERTICAL RISER STEM OF THE RESTRICTOR/SEPARATOR SHALL BE THE SAME DIAMETER AS THE HORIZONTAL OUTLET PIPE WITH A 8" MINIMUM SIZE.
4. FRAME AND LADDER OR STEPS TO BE OFFSET SO THAT:
 - A. CLEANOUT GATE IS VISIBLE FROM TOP
 - B. CLIMB-DOWN SPACE IS CLEAR OF RISER AND CLEANOUT GATE.
 - C. FRAME IS CLEAR OF CURB (IF ANY EXISTS).
5. MULTI-CORNER ELBOWS MAY BE LOCATED AS SHOWN OR ALL ON ONE SIDE OF RISER TO ASSURE LADDER CLEARANCE. SIZE OF ELBOWS TO BE DETERMINED BY THE ENGINEER.
6. RESTRICTOR PLATE WITH ORIFICE AS SPECIFIED IN THE PLANS. OMIT PLATE IF ONLY FOR ALL POLLUTION CONTROL. SPECIFIED OPENING TO BE CUT ROUND AND SMOOTH.
7. CLEANOUT GATE/SEAR GATE:
 - A. ALUMINUM ALLOY PER ASTM B9-26-72-32a OR CAST IRON ASTM A48 CLASS 308 AS REQUIRED.
 - B. LIFT HANDLE SOLID ROD WITH ADJUSTABLE HOOK AS REQUIRED.
 - C. NEOPRENE RUBBER GASKETS REQUIRED BETWEEN FLANGES.
8. ALTERNATE CLEANOUT GATES/SEAR GATES TO THE DESIGN SHOWN ARE ACCEPTABLE PROVIDED THEY MEET THE MATERIAL SPECIFICATIONS ABOVE AND HAVE A SIX BOLT 10 3/8" BOLT CIRCLE FOR BOLTING TO THE FLANGE CONNECTION.



8"Ø CLEANOUT/SHEAR GATE
N.T.S.

WSDOT/APWA PLAN B-3



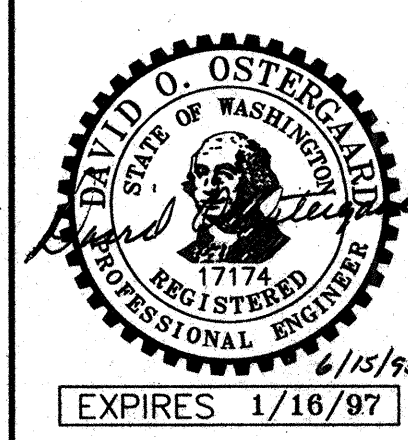
VAULT VENT DETAIL
N.T.S.

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY [Signature] 29 June 88

NO.	REVISION	DATE
1	PER CITY/CLIENT REVIEW	5/19/95
2	PER CLIENT REVIEW	5/30/95
3	PER CITY/CLIENT REVIEW	6/12/95

Sheet	6 of 11	Designed	_____
		Drawn	ME _____
		Submitted	_____
Job No.	94145	Approved	_____

G.W.C.
Land Development Consulting
8888 45th Pl. W.
Mukilteo, Wa. 98275
347-4627 & 828-9881



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WINSLOW

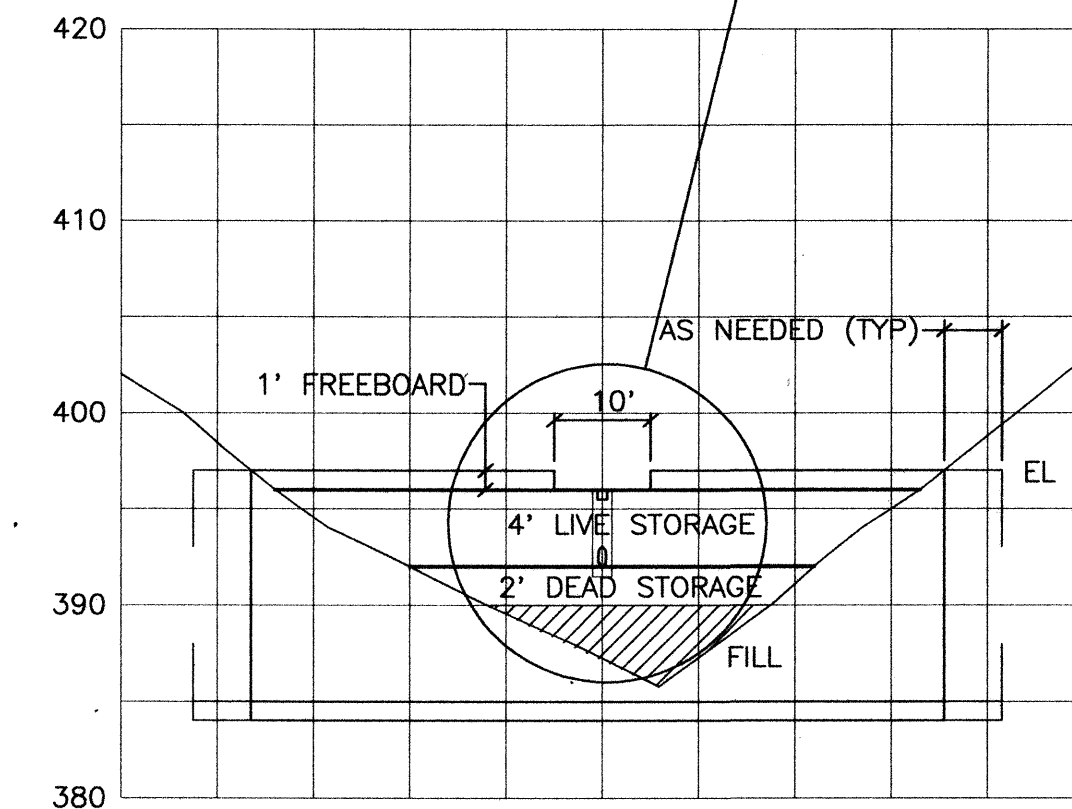
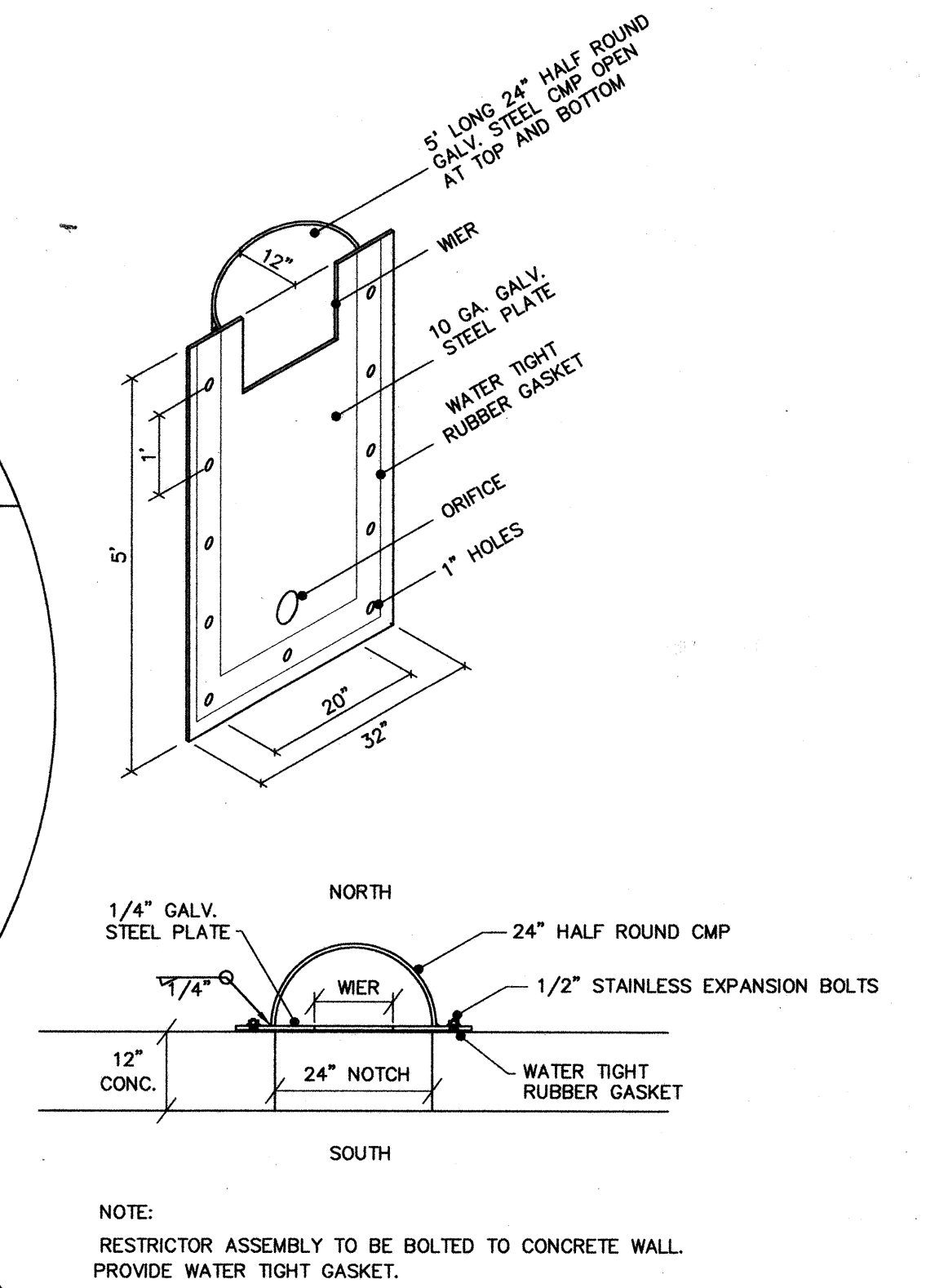
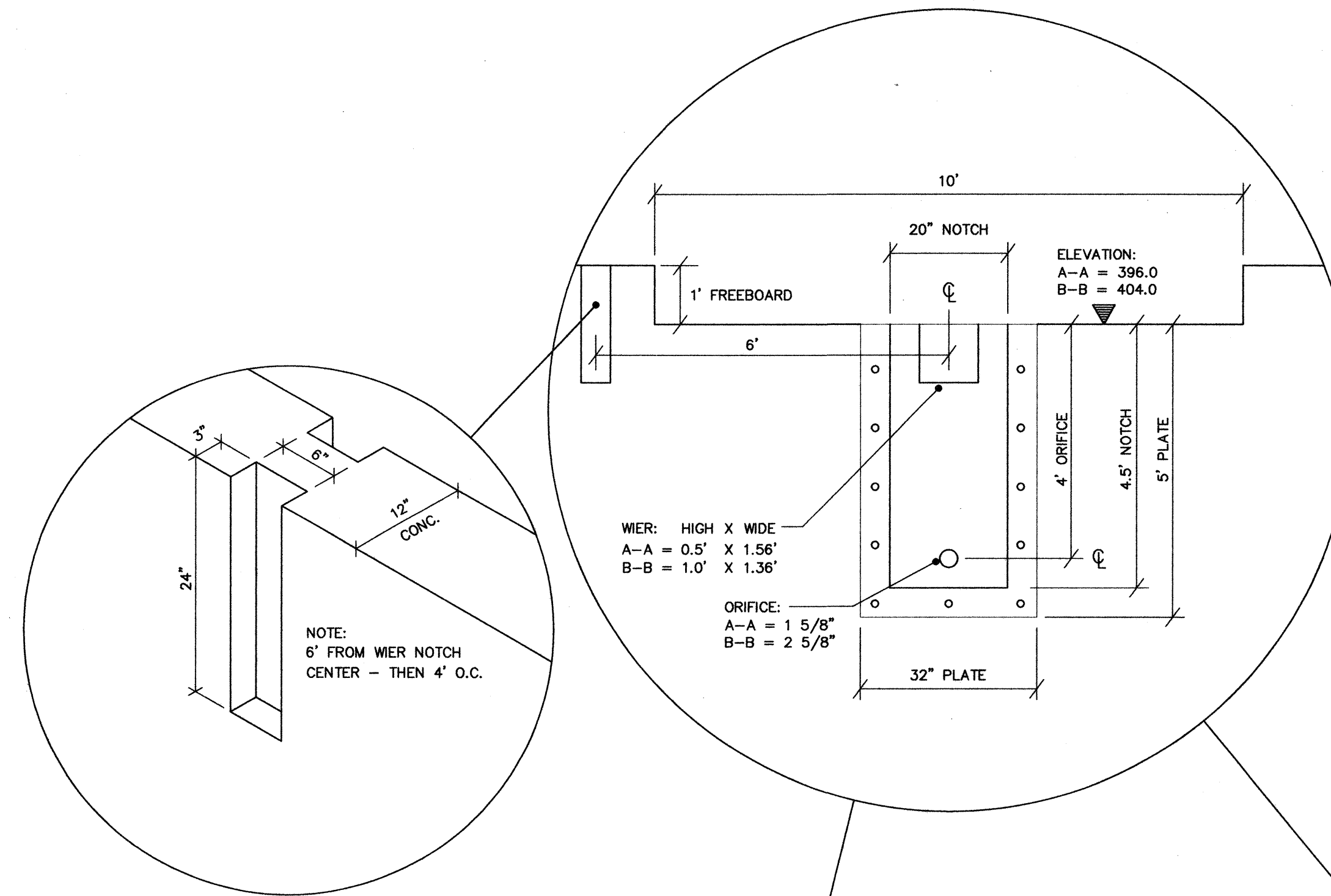
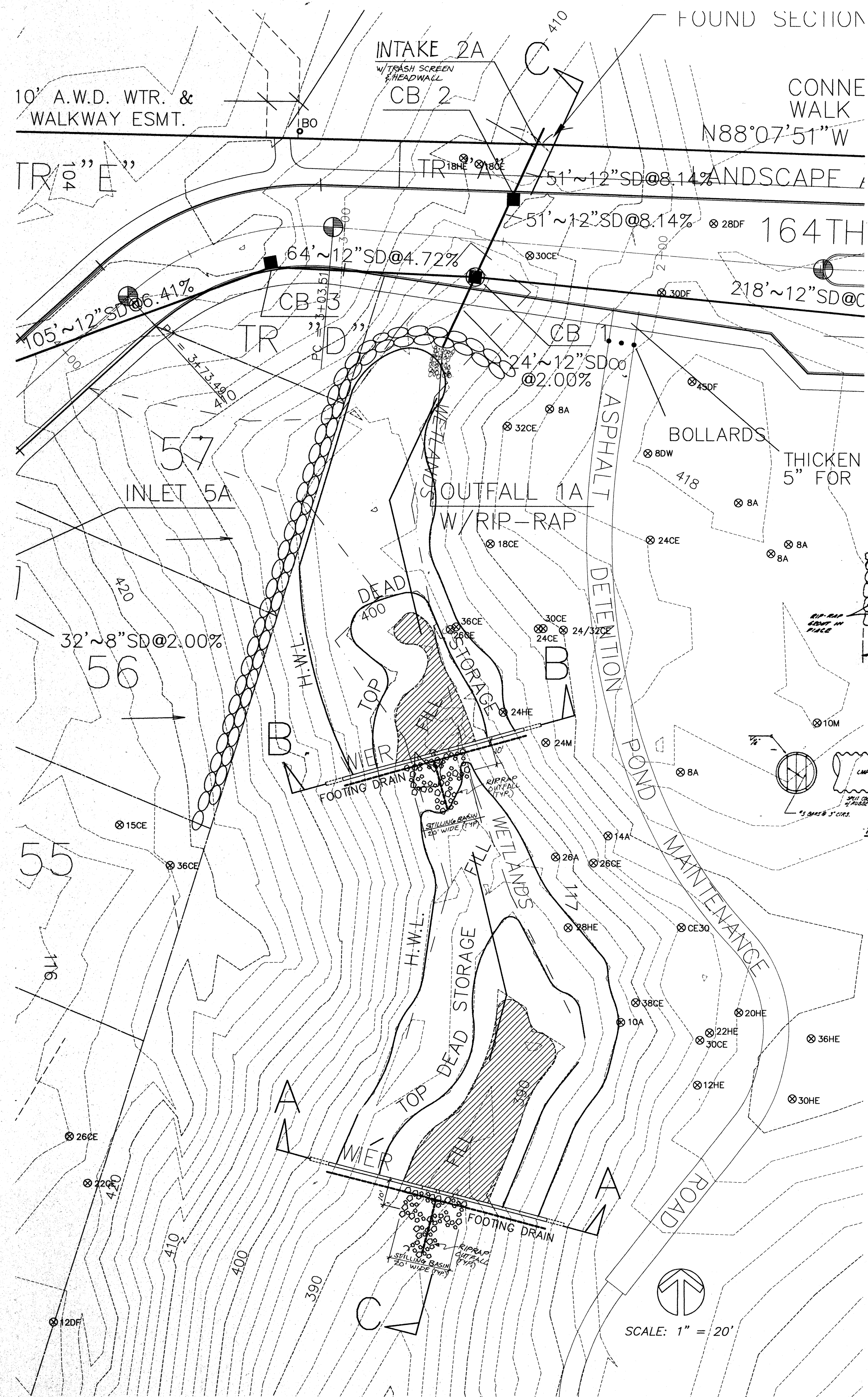
RETENTION/DETENTION

CITY OF MILL CREEK

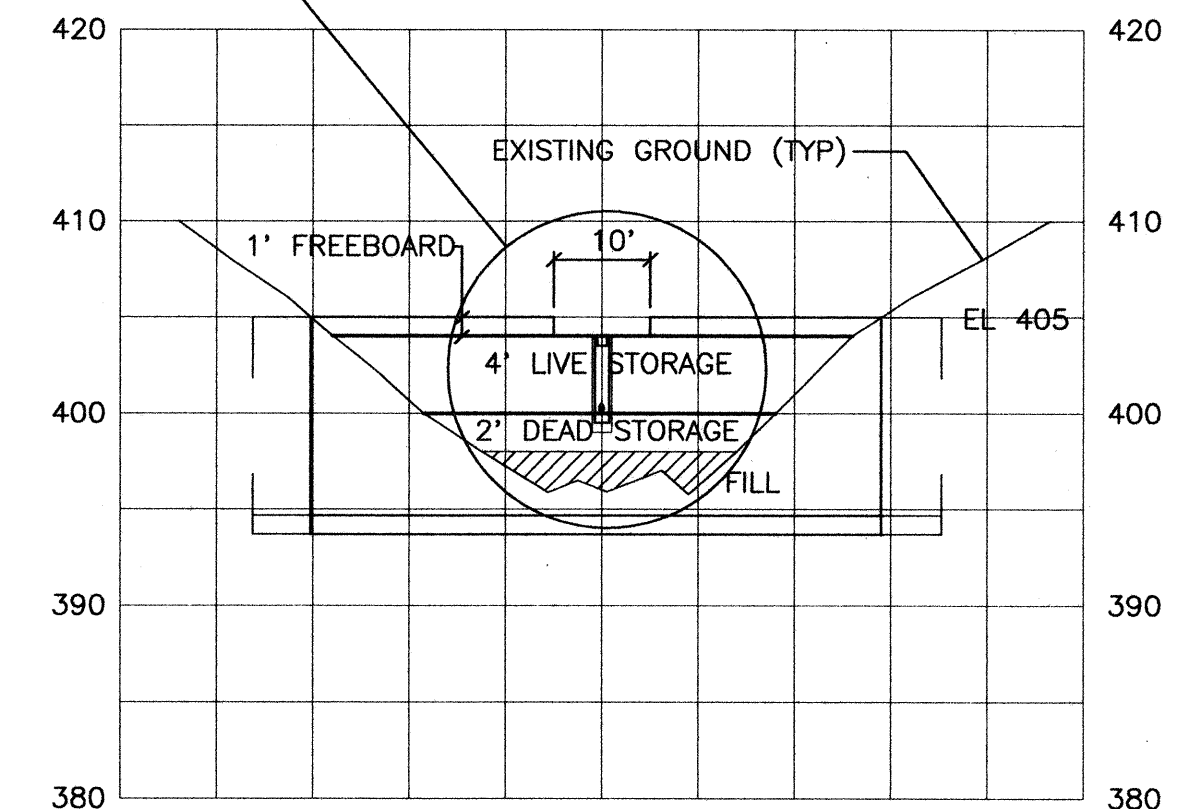
WASHINGTON

HDEV-478

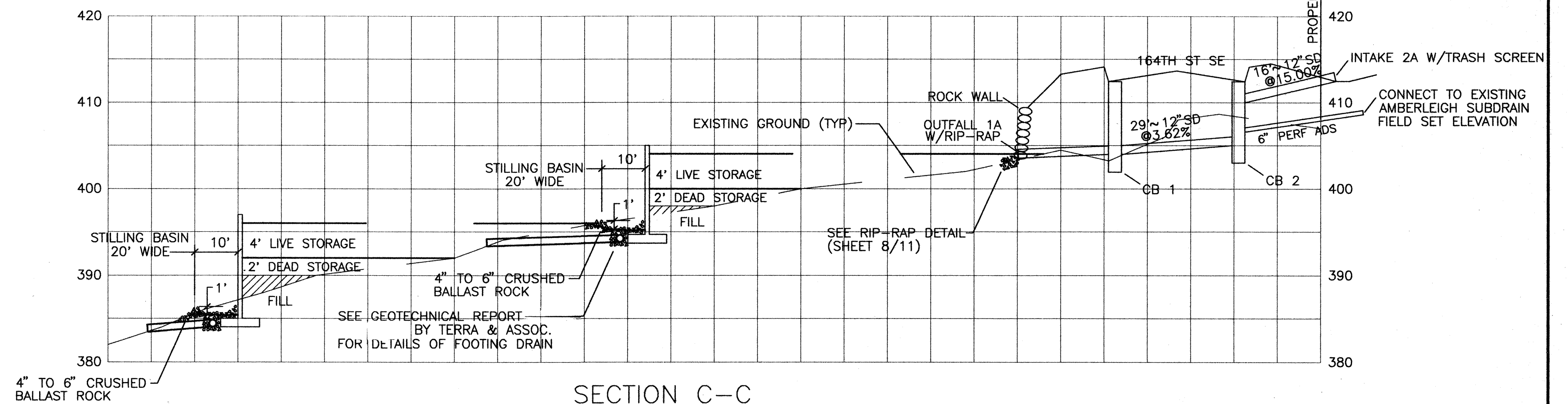
NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



SECTION A-A



SECTION B-B



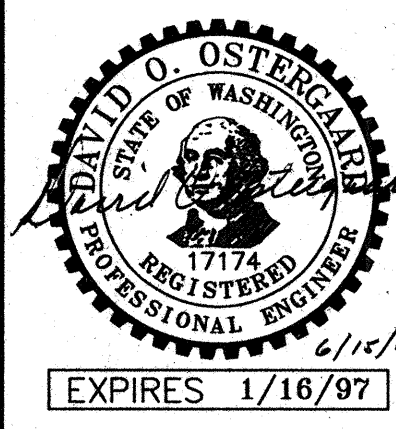
SECTION C-C

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY Wm E. Sullivan 29 June 58

NO.	REVISION	DATE
1	PER CITY/CLIENT REVIEW	5/19/95
2	PER CLIENT REVIEW	5/31/95
3	PER CITY REVIEW	6/13/95

Sheet	7 of 11	Designed	_____
		Drawn	ME
		Submitted	_____
Job No.	94145	Approved	_____

G.W.C.
Land Development Consulting
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Mukilteo, Wa. 98275
347-4627 & 828-9881





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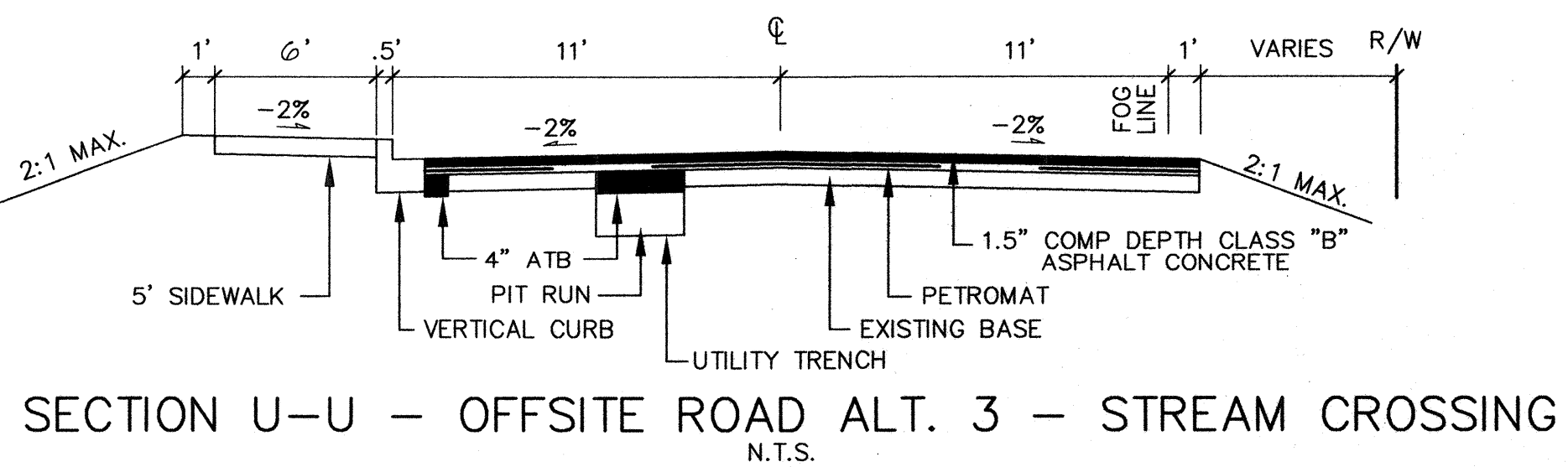
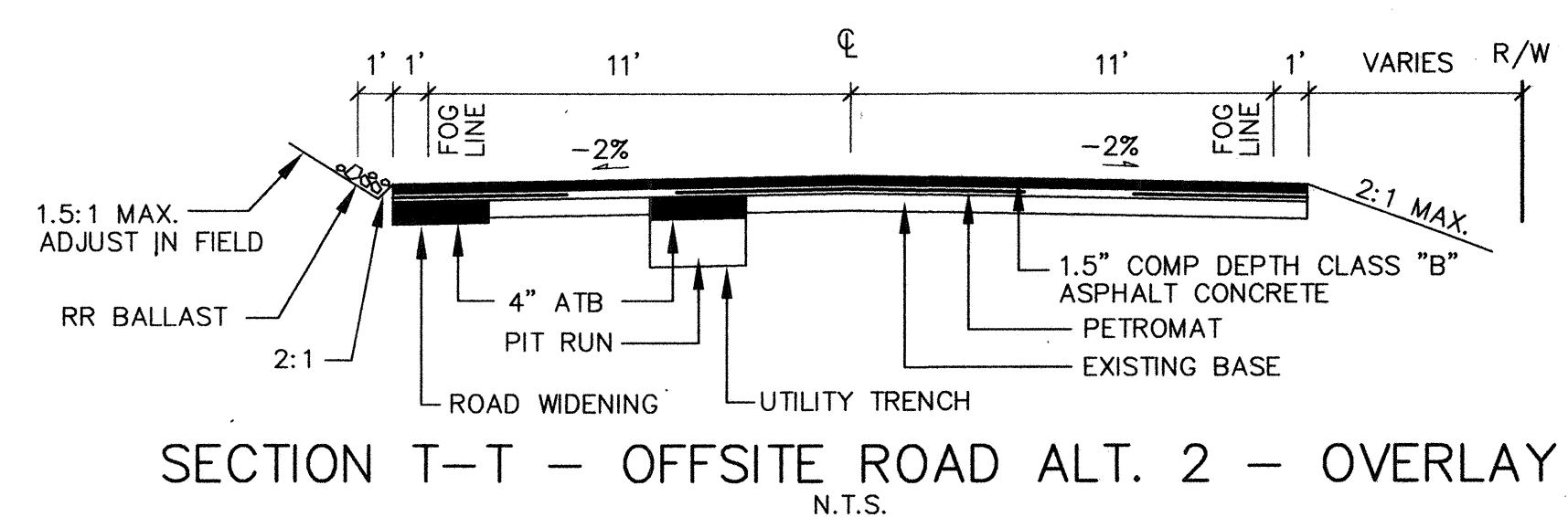
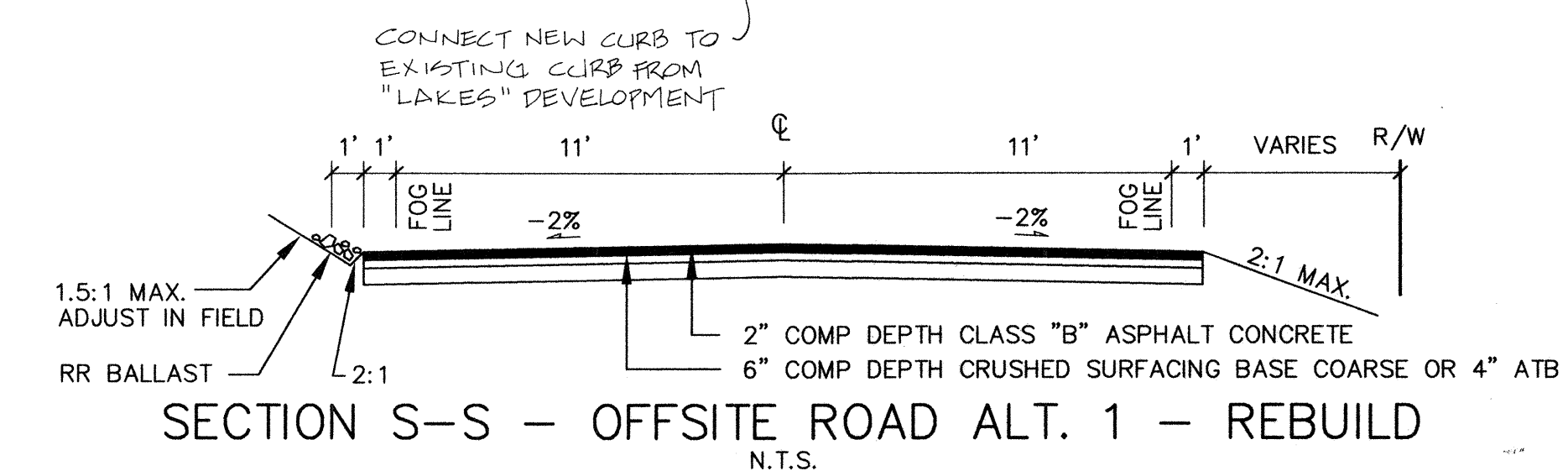
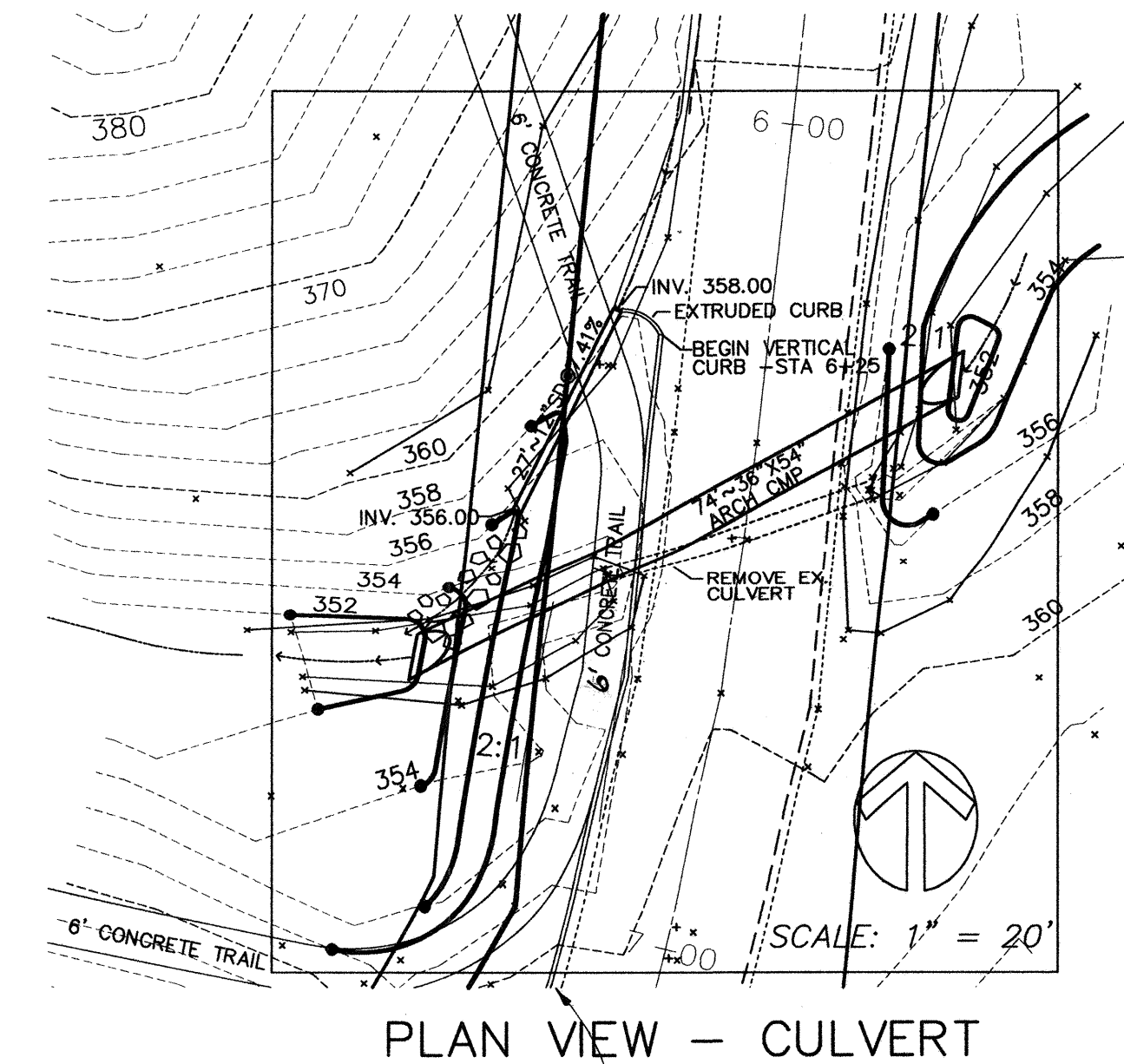
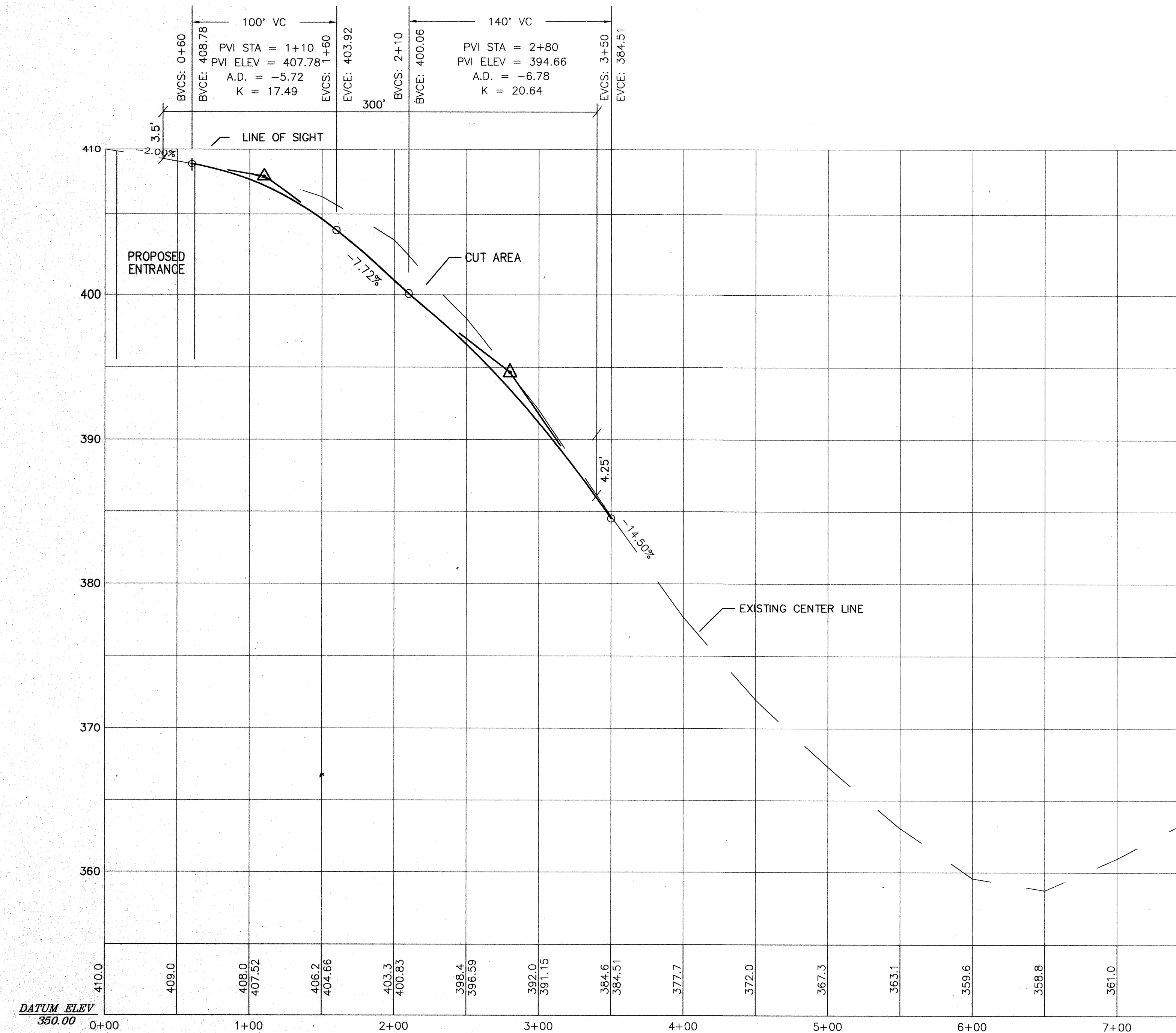
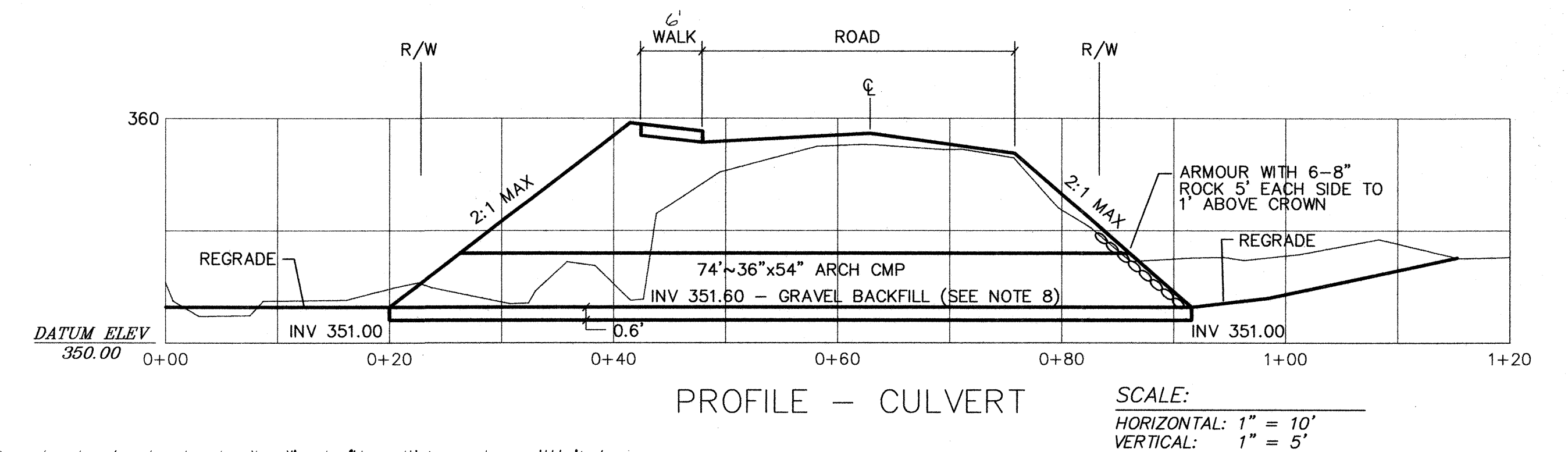
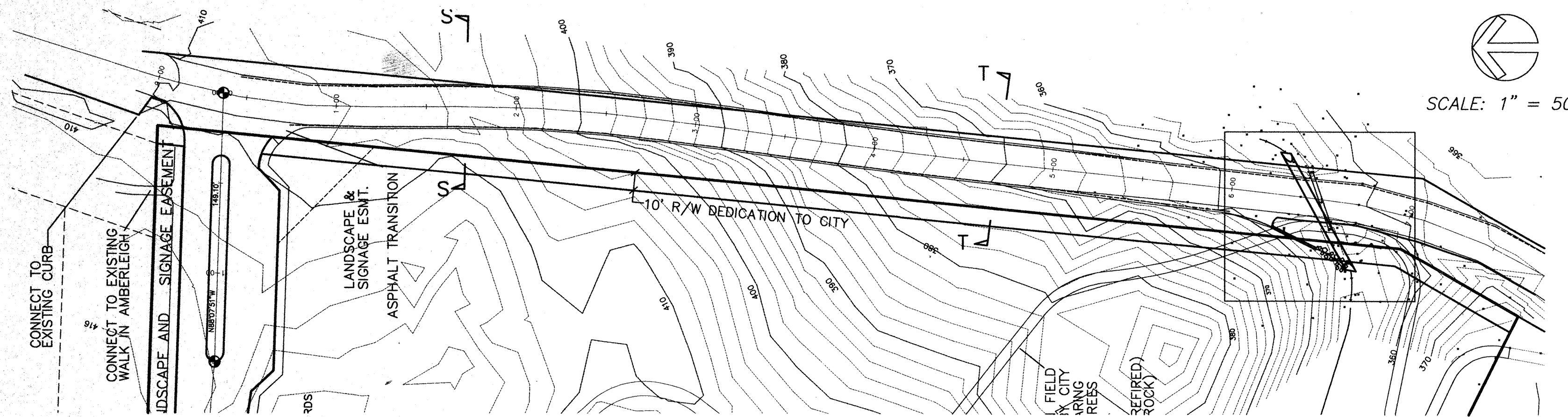
WINSLOW

RETENTION/DETENTION

CITY OF MILL CREEK WASHINGTON

HDEV-480

NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



- CULVERT REPLACEMENT**
1. THE PREFERRED CONSTRUCTION PERIOD FOR THE CULVERT REPLACEMENT IS BETWEEN AUGUST 15 AND SEPTEMBER 15. CONTRACTOR TO MAKE EVERY REASONABLE EFFORT TO WORK ONLY WITHIN THIS PERIOD.
 2. PRIOR TO ANY SITE WORK, THE WORK AREA SHALL BE FLAGGED FOR CLEARING AND THE IMPROVEMENTS STAKED, PER CONSTRUCTION PLANS APPROVED BY THE CITY OF MILL CREEK AND PER THE CONDITIONS OF ANY HPA, BY THE PROJECT ENGINEER, OSTERGAARD & ROBINSON - 259-6445.
 3. CONTACT RICH JOHNSON, DEPARTMENT OF FISHERIES AND WILDLIFE @ 339-3876, SEVEN DAYS PRIOR TO START OF CULVERT REPLACEMENT CONSTRUCTION SO THAT HE MAY INSPECT FOR ANY FISH WHICH THE CONTRACTOR MIGHT HAVE TO REMOVE.
 4. STREAM FLOWS, IF ANY, ARE TO BE DIVERTED AROUND THE WORK AREA BY CONSTRUCTING A SANDBAGGED DAM APPROXIMATELY 10' UPSTREAM OF THE NEW INTAKE AND THE WATER PUMPED AROUND THE CONSTRUCTION AREA. PUMPED FLOWS ARE TO BE DISCHARGED INTO A FILTER FABRIC LINED AREA IN THE EXISTING STREAM BED IMMEDIATELY DOWNSTREAM OF THE WORK AREA.
 5. THE EXISTING CULVERT IS TO BE REMOVED AND DISPOSED OF OUTSIDE THE STREAM CORRIDOR.
 6. THE FACE OF THE COMPACTED ROADWAY FILL IS TO BE ARMORED WITH 6"-8" QUARRY SPALLS UP TO THE CROWN OF THE OUTFALL PIPE FOR A HORIZONTAL DISTANCE OF 5' EACH SIDE OF THE PIPE.
 7. THE OUTFALL ELEVATION OF THE REPLACEMENT CULVERT IS TO BE SET TO MATCH THE EXISTING STREAM BED AT THE OUTFALL LOCATION, OR LOWER IF RECOMMENDED BY RICH JOHNSON AFTER HIS SITE INSPECTION PER ITEM #3 ABOVE. THIS WILL NECESSITATE THE REGRADING OF APPROXIMATELY 10 FEET OF STREAM BED AT THE INTAKE TO MATCH THE LOWER, 0% CULVERT SLOPE, INVERT ELEVATION. (APPROXIMATELY 1' CUT).
 8. THE INVERT OF THE 36" X 58" PIPE ARCH IS TO BE DEPRESSED 20% BELOW THE BED OF THE STREAM AND BACKFILLED 20% WITH THE FOLLOWING MIXTURE OF WASHED RIVER ROCK: 45% SIZED 1/4" TO 1-1/2", 40% SIZED 1-1/2" TO 3" AND 15% SIZED 3" TO 4". A SMALL AMOUNT OF FINES IS PERMITTED.

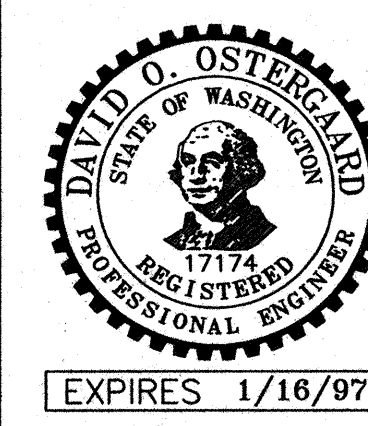
SEATTLE HILL ROAD

SCALE:
HORIZONTAL: 1" = 50'
VERTICAL: 1" = 5'

NO.	REVISION	DATE
1	PER CITY/CLIENT REVIEW	5/19/95
2	PER CLIENT REVIEW	5/31/95
3	PER CITY/CLIENT REVIEW	6/14/95
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Sheet 9 of 11
Job No. 94145
Designed ME
Drawn ME
Submitted
Approved

G.W.C.
Land Development Consulting
8888 45th Pl. W.
Mukilteo, Wa. 98275
347-4627 & 828-9881



OSTERGAARD & ROBINSON
ASSOC. INC. CONSULTING ENGINEERS
3630 COLBY AVE. EVERETT, WA 98201
(206) 259-6445 BELLEVUE: (206) 827-5854
WINSLOW
ROAD + STORM DRAINAGE
PROFILE
CITY OF MILL CREEK WASHINGTON

HDEV-481

TRACT "C"
OPEN SPACE/FUTURE CITY PARK

SCALE: 1" = 50'
DATUM: USGS
BENCHMARK:
"1" CHISELED IN EAST BOTTOM FLANGE BOLT OF
FIRE HYDRANT AT SE QUADRANT OF INTERSECTION
OF MILL CREEK RD & SEATTLE HILL RD - ELEV = 422.27

KEY

SILT FENCE
CLEARING LIMITS & ORANGE BARRIER FENCE
NOTE: ORANGE BARRIER FENCE IS NOT REQUIRED
WHERE SILT FENCE IS SPECIFIED EXCEPT
AT SIGNIFICANT TREES.



SCALE: 1" = 50'

DATUM: USGS
BENCHMARK:

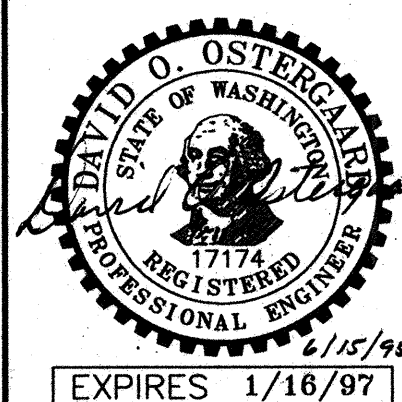
*" CHISELED IN EAST BOTTOM FLANGE BOLT OF
FIRE HYDRANT AT SE QUADRANT OF INTERSECTION
OF MILL CREEK RD & SEATTLE HILL RD - ELEV = 422.27

 	SILT FENCE CLEARING LIMITS & ORANGE BARRIER FENCE NOTE: ORANGE BARRIER FENCE IS NOT REQUIRED WHERE SILT FENCE IS SPECIFIED EXCEPT AT SIGNIFICANT TREES.
--	--

CITY OF MILL CREEK
APPROVED FOR CONSTRUCTION
BY 7. [Signature] 29. June '88

NO.	REVISION	DATE
1	PER CITY/CLIENT REVIEW	5/19/07
2	PER CLIENT REVIEW	5/31/07
2	PER CITY REVIEW	6/12/07
Sheet	10 ^{of} 11	Designed _____ Drawn ME Submitted _____ Approved _____
Job No.	94145	

G.W.C.
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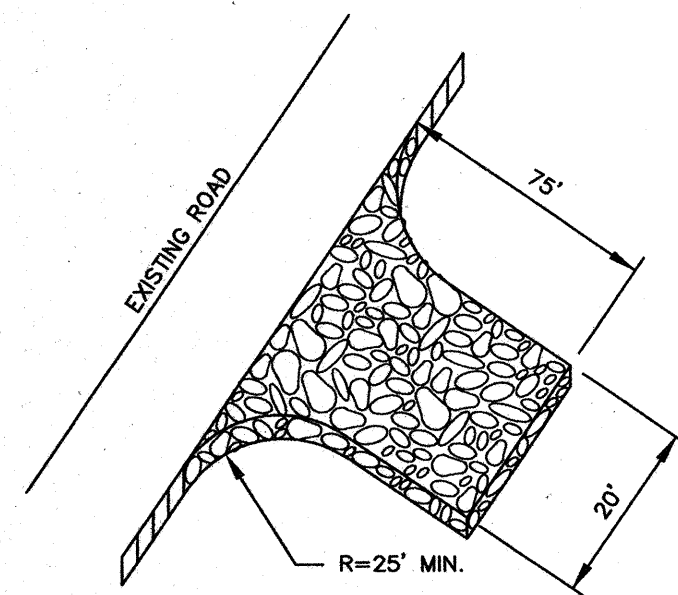
WINSLOW

CLEARING + GRADING

PLAN

CITY OF MILL CREEK WASHINGTON

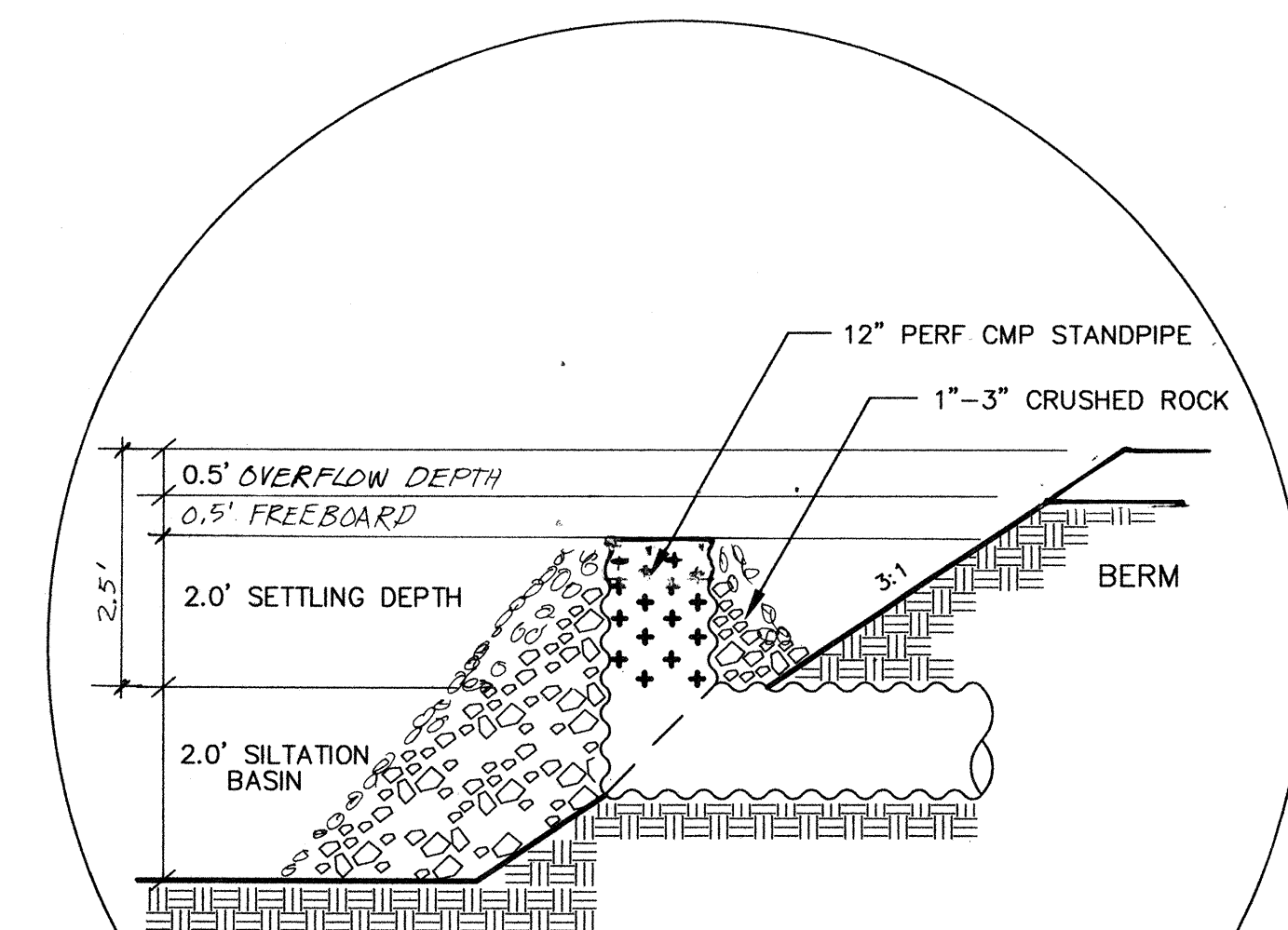
NE 1/4 SEC 7 & NW 1/4 SEC 8, TWP 27N, RGE 5E, W.M.



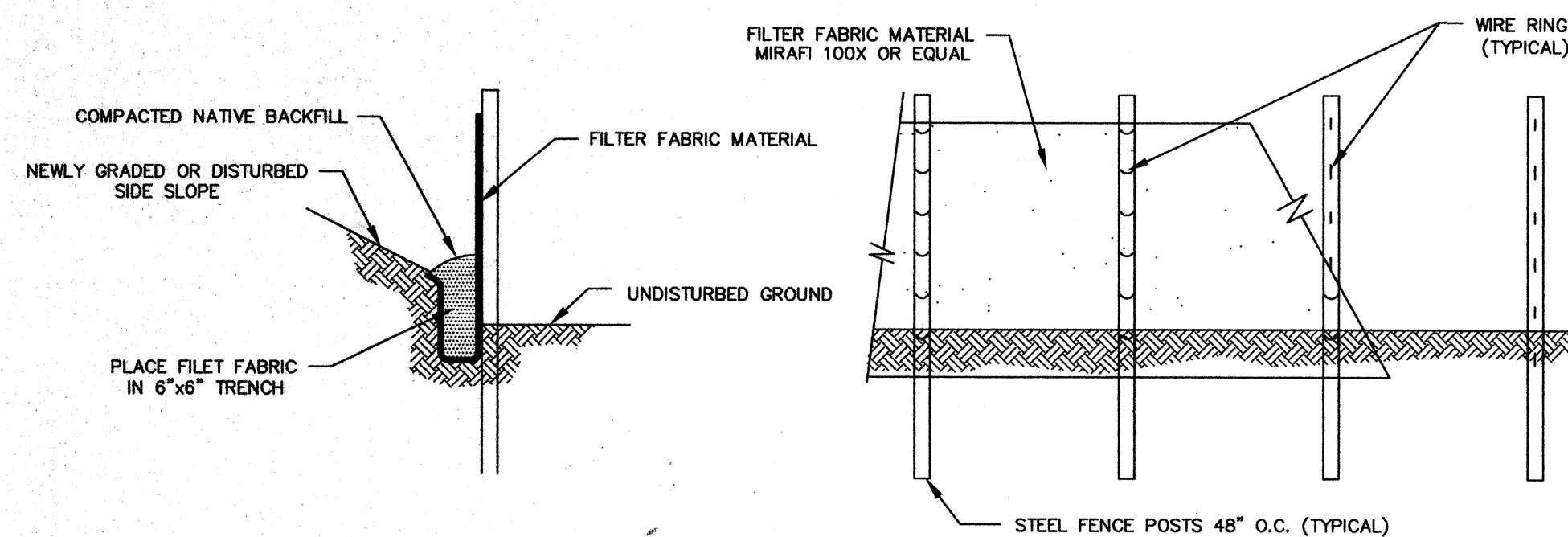
GRAVEL CONSTRUCTION ENTRANCE

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

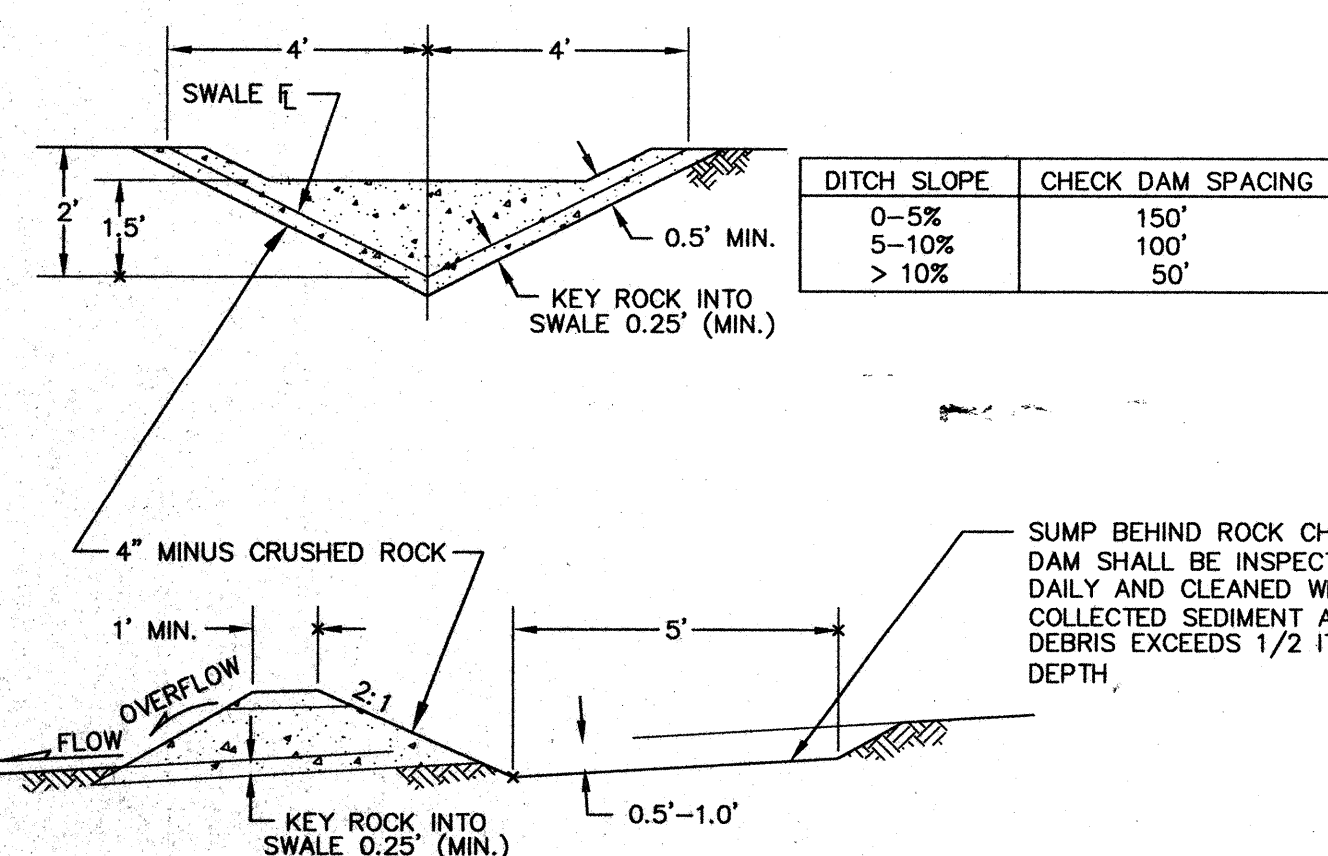
1. INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS AND OTHER OBJECTIONABLE MATERIAL. THE GRAVEL SHALL BE PLACED TO THE SPECIFIED DIMENSIONS. ANY DRAINAGE FACILITIES REQUIRED BECAUSE OF WASHING SHOULD BE CONSTRUCTED ACCORDING TO SPECIFICATIONS IN THE PLAN. IF WASH RACKS ARE USED, THEY SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
2. AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK
3. ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 6 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 50 FEET.
4. WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICLE TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER A PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM THE ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
5. MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD TO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR REPLACEMENT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED OR TRACKED FROM VEHICLES ONTO ROADWAY OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



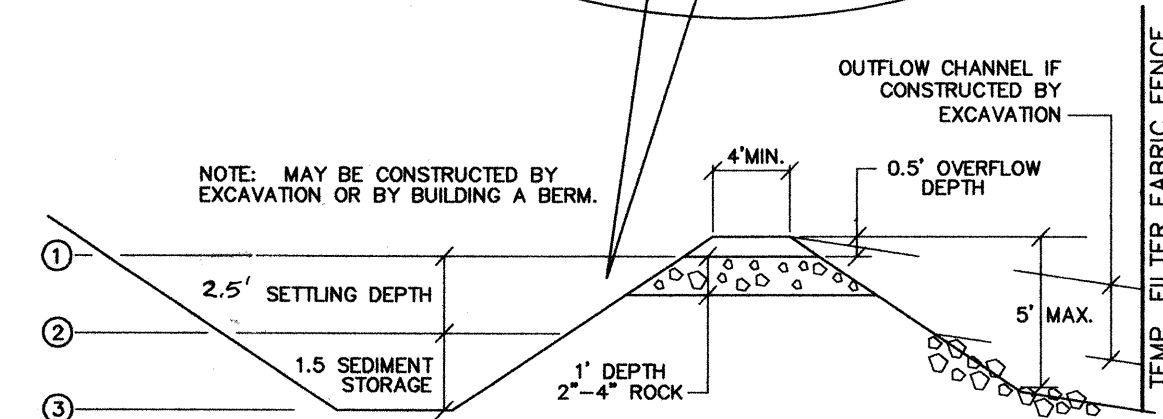
TEMP. STANDPIPE DETAIL



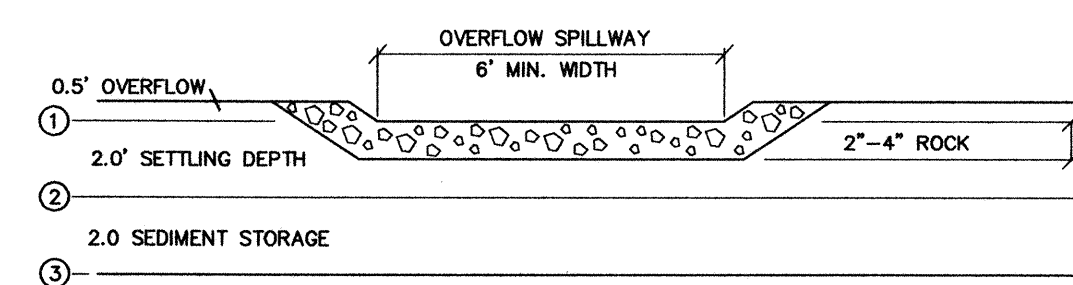
SILT FENCE DETAILS



ROCK CHECK DAM DETAILS

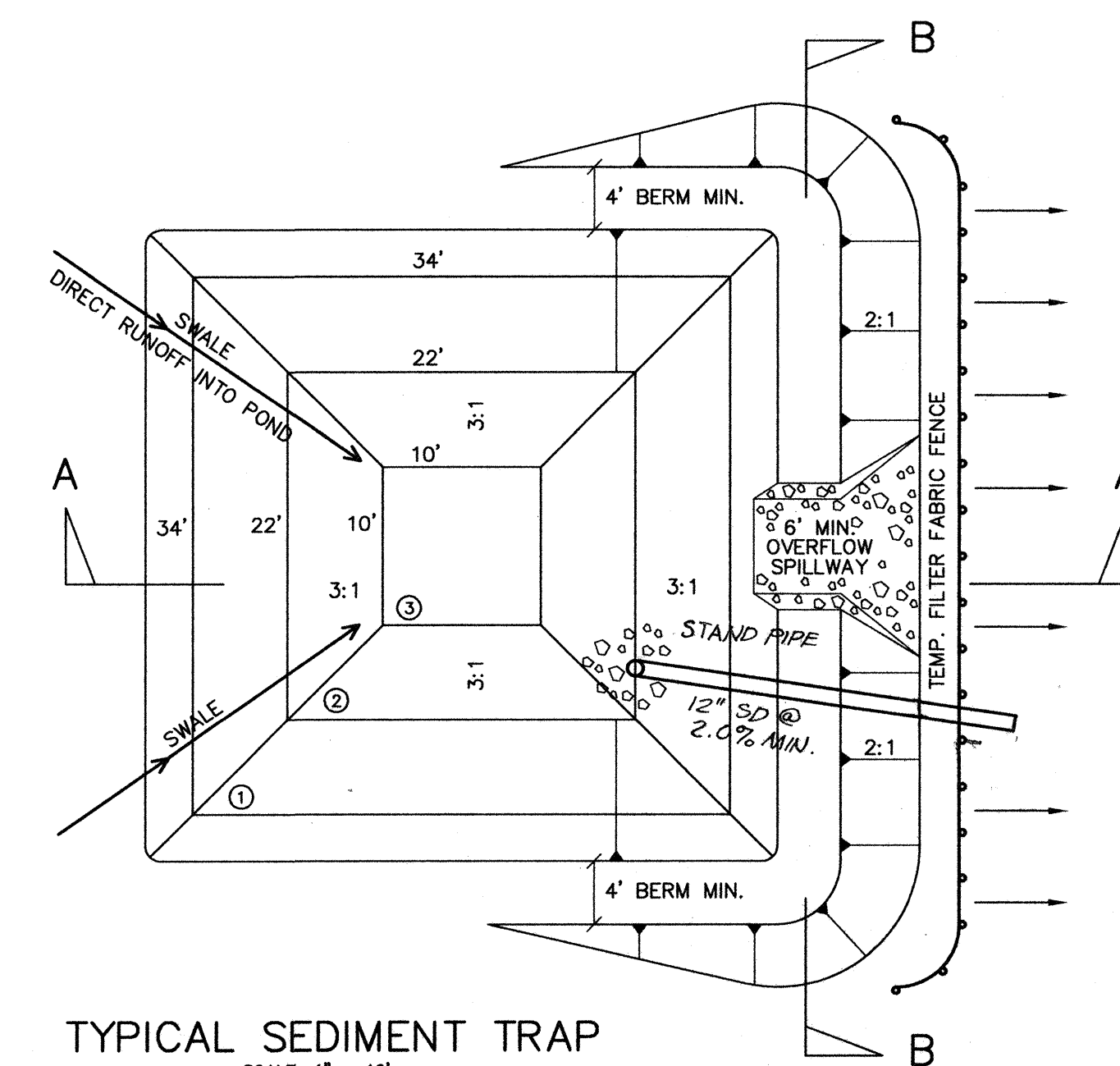


SECTION A-A



SECTION B-B

TEMPORARY SEDIMENT TRAP - MINIMUM DIMENSIONS			
T.S.T.#	1	2	3
ALL PONDS	34 X 34	22 X 22	10 X 10
SEE HYDRAULIC CALCULATIONS FOR T.S.T. CALCULATIONS			

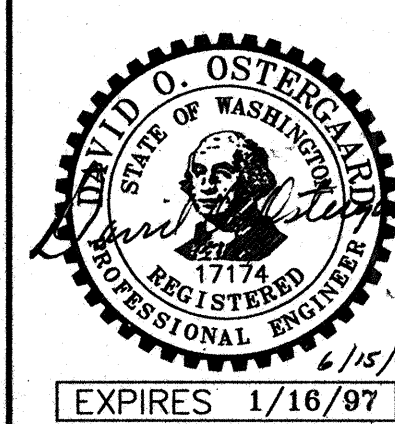


TYPICAL SEDIMENT TRAP

G.W.C.

Land Development Consulting

8888 45th Pl. W.
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347-4627 & 828-9881



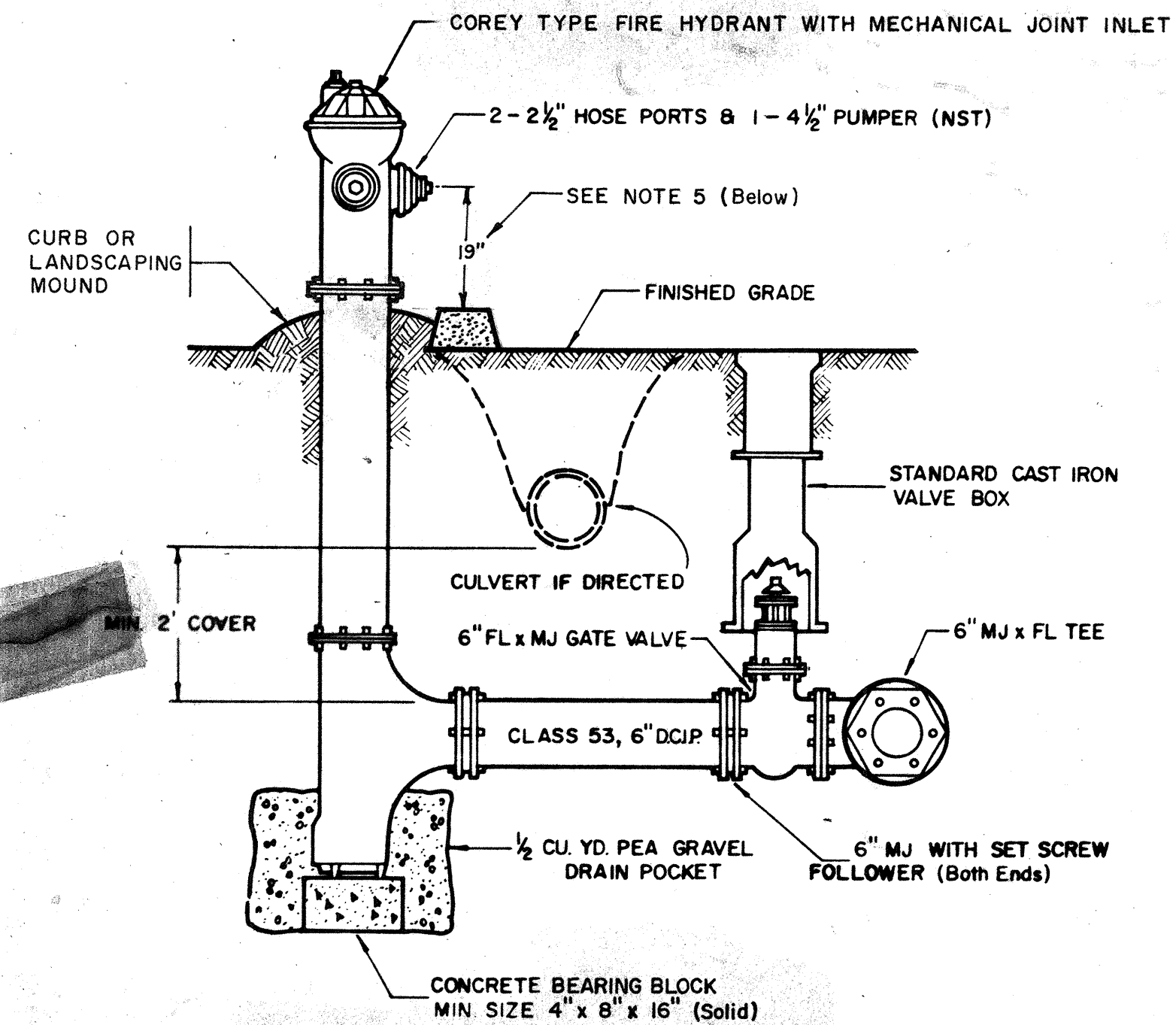
Gender	Percentage
Male	50%
Female	50%

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WINSLOW

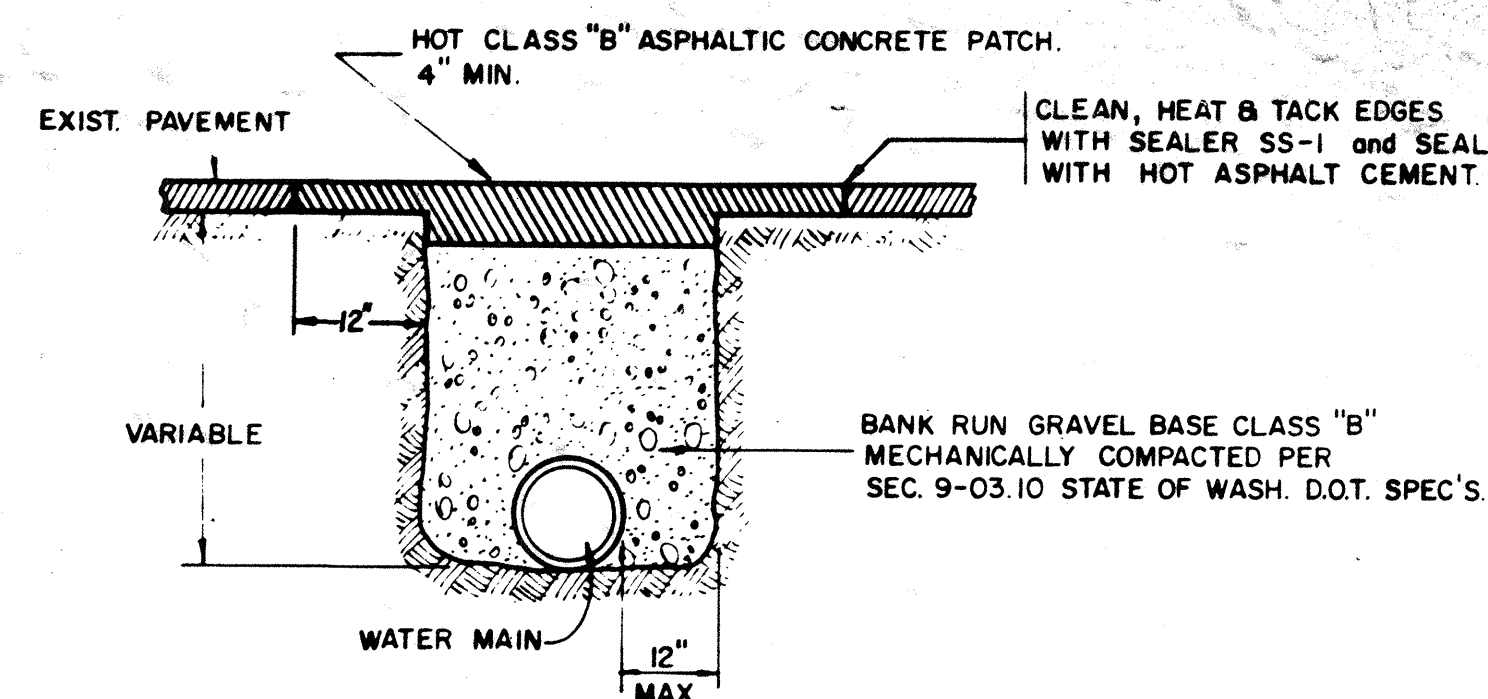
CLEARING + GRADING

DETAILS



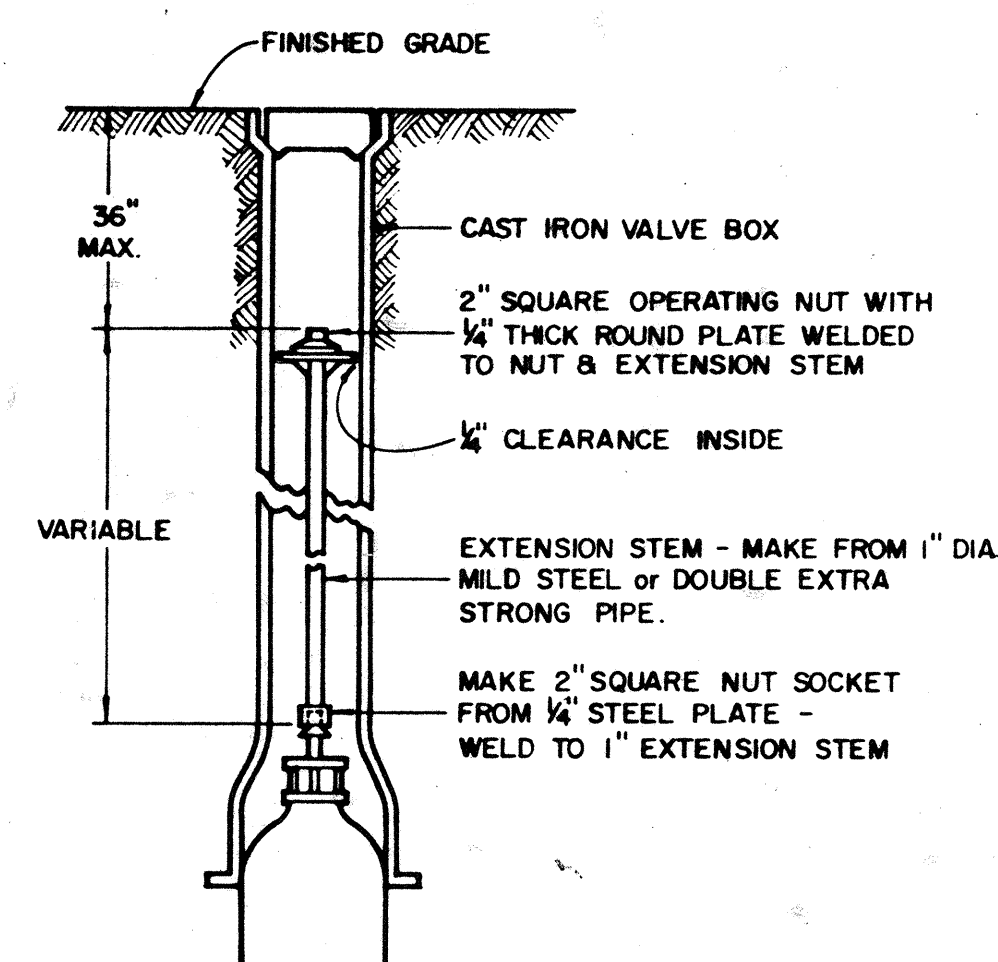
HYDRANT ASSEMBLY

- NOTES:**
1. PAINT HYDRANT WITH 2 BRUSHED COATS OF PRESERVATIVE (Brand) PAINT, No. 43-114 International Yellow.
 2. WHEN HYDRANT SPOOL EXCEEDS 18' USE 6" MJ SLEEVE WITH SET SCREW FOLLOWERS.
 3. HYDRANTS SHALL BE FURNISHED WITH BREAKING FLANGE OR BOLTS.
 4. GUARD POSTS REQUIRED ON ALL HYDRANTS SUBJECT TO TRAFFIC INTERFERENCE.
 5. MINIMUM 19" CLEARANCE TO TOP OF CURB OR LANDSCAPE BERM WHICHEVER IS HIGHER.

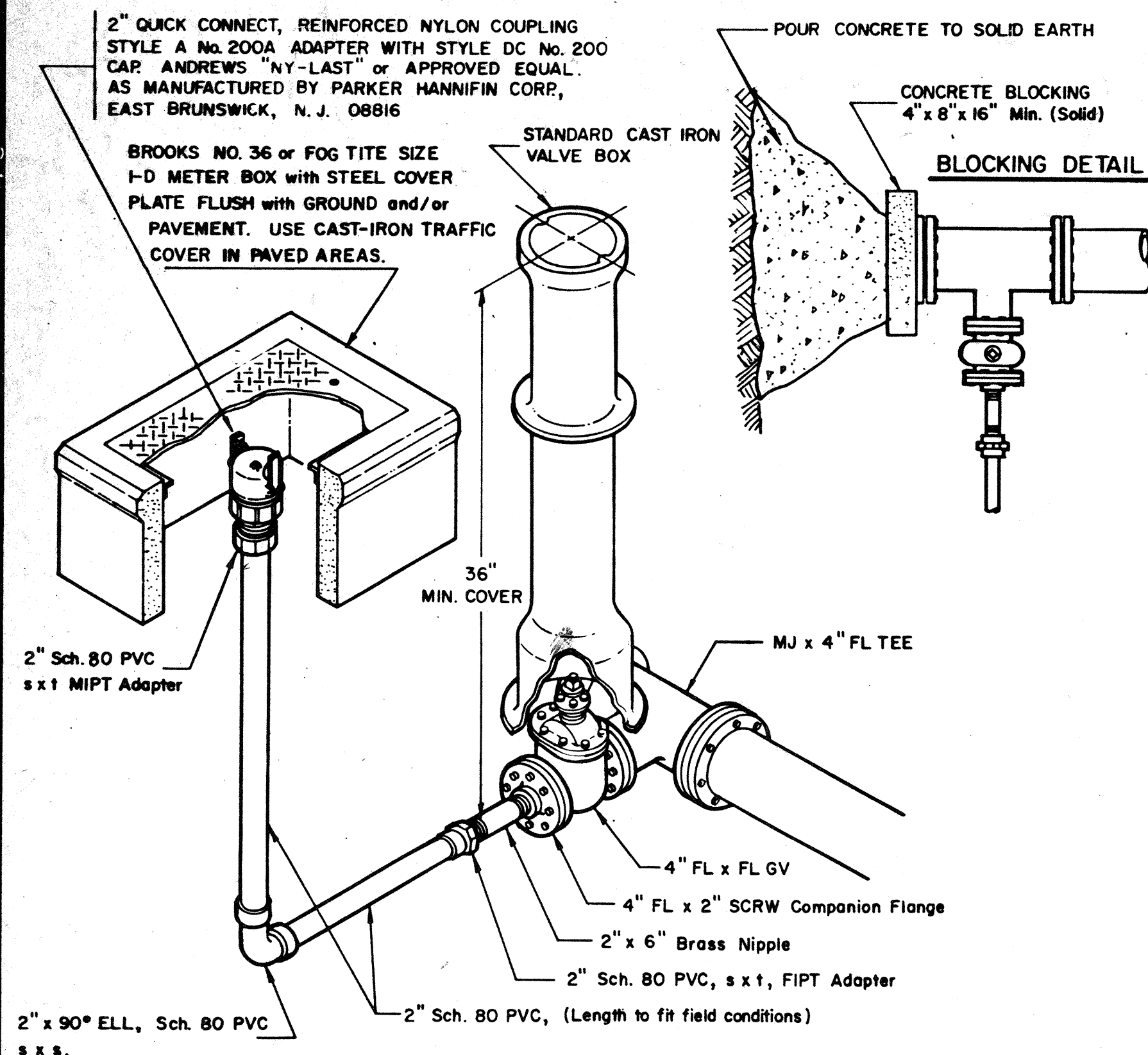


RESTORATION & BACKFILL ACROSS PAVED AREAS

- NOTES:**
1. CROSSINGS SHALL BE TEMPORARILY REPAVED WITH COLT MIX.
 2. PATCH SHALL BE MACHINE ROLLED FLUSH WITH EXISTING PAVEMENT AND SHALL BE PLACED PER SECTION 5-04 OF THE WASH. STATE D.O.T. SPEC'S.

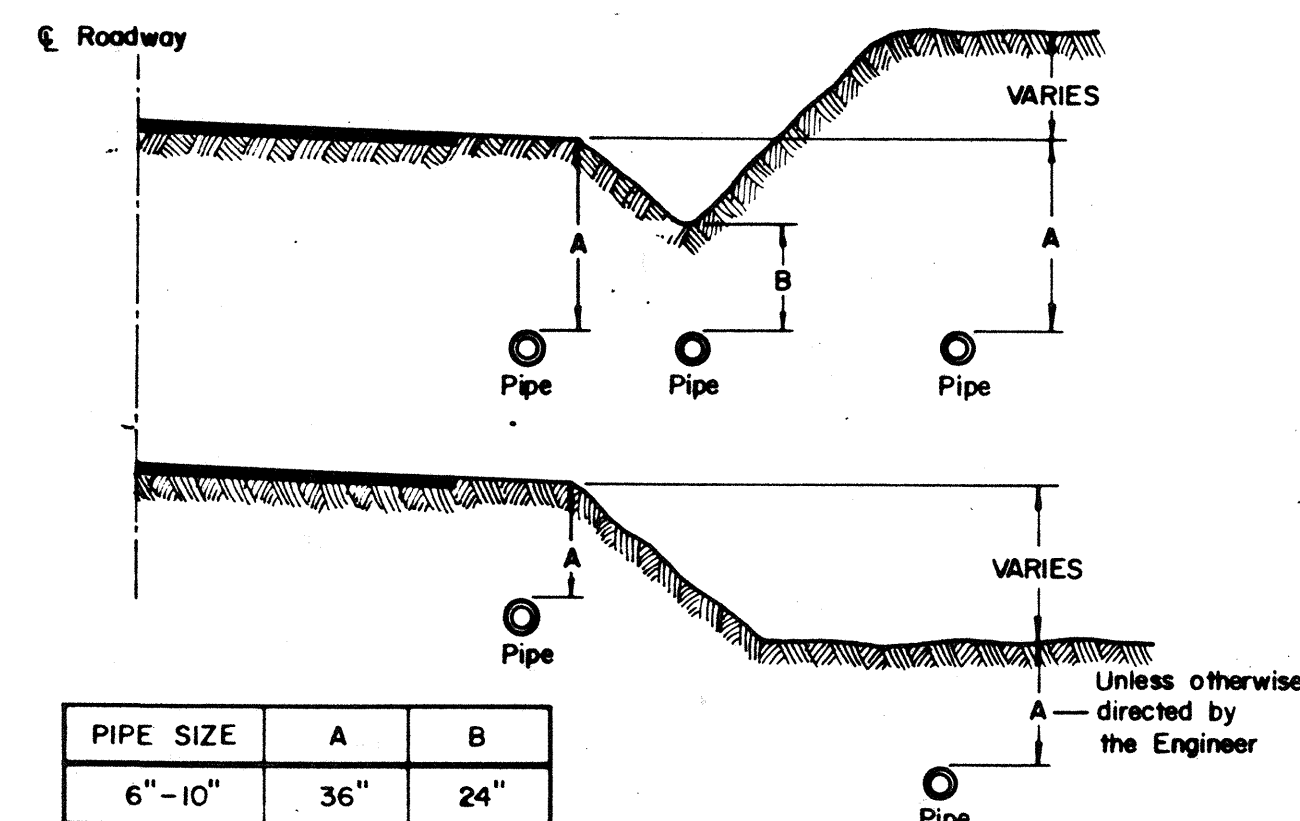


VALVE EXTENSION STEM



2" BLOWOFF ASSEMBLY

NOTE: Use Solvent Sch. 80 PVC Figs. only.



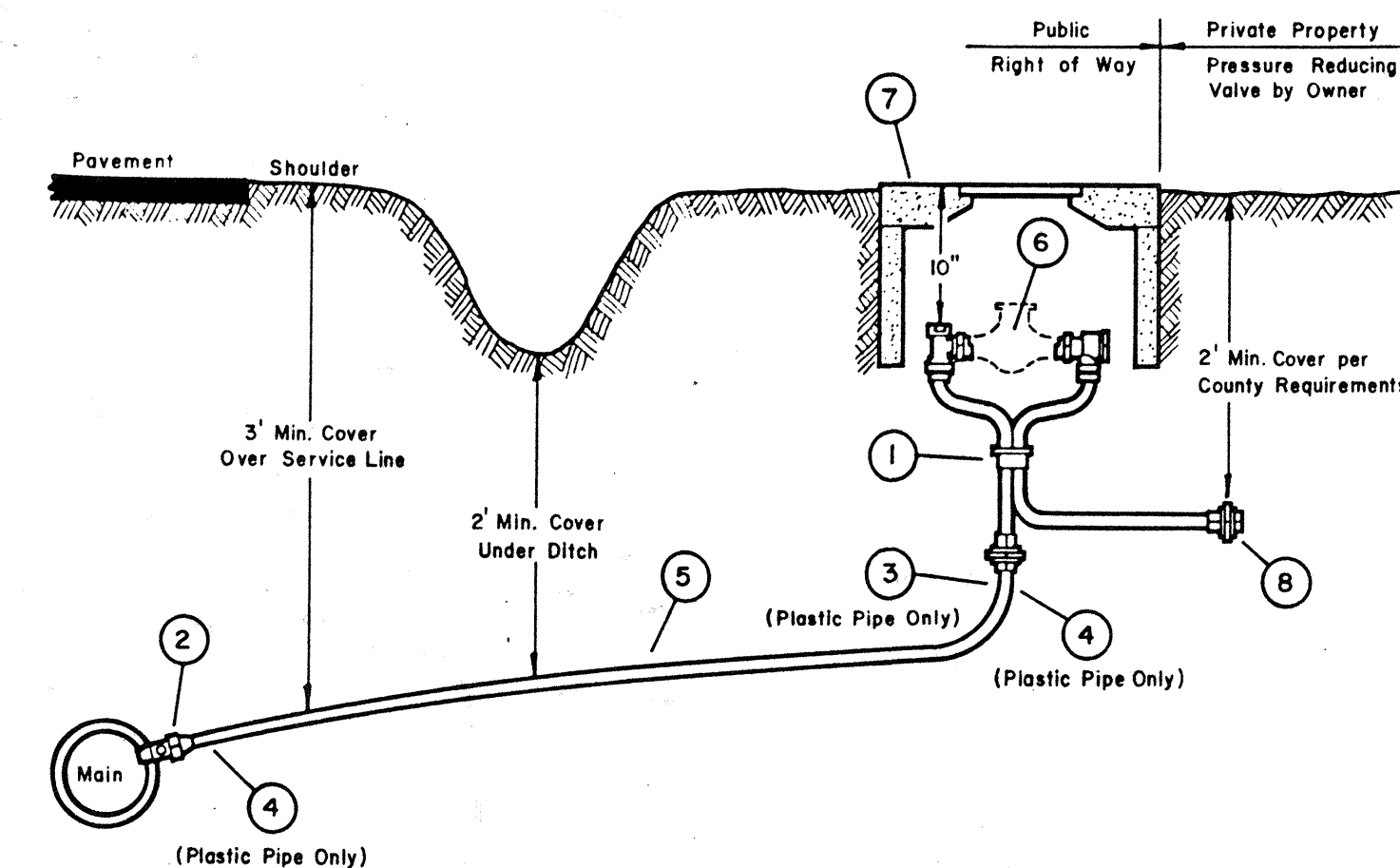
PIPE SIZE	A	B
6" - 10"	36"	24"
12" - 18"	42"	30"
20" & Over	48"	36"

STANDARD DEPTH REQUIREMENTS

NOTE: DEPTH SHALL BE NO LESS THAN DIMENSION "A" BELOW ROAD SHOULDER & SHALL HAVE MINIMUM COVER NOT LESS THAN DIMENSION "B".

3/4" & 1" Meter Service Installation

ALDERWOOD WATER DISTRICT

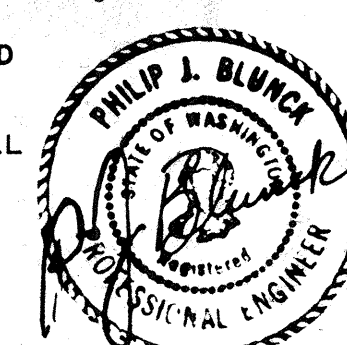


MANUFACTURER						
NO.	ITEM	MATERIAL	SIZE	FORD	MUELLER	JONES
1	METER SETTER	COPPER	3/4"	3/4" x 5/8" METER SETTER, FORD VBH 92-12 x 15 EXTENSION with Vertical Inlet, or an approved equal.		
		COPPER	1"	1" METER SETTER, FORD VBH94-15 x 15 EXTENSION with Vertical Inlet, or an approved equal.		
2	CORPORATION STOP	FOR COPPER SERVICE	3/4"	F600	H-15000	J-1500
			1"	F600	H-15000	J-1500
		FOR PLASTIC SERVICE	3/4"	F400	H-9996	J-45
3	MIP x INSERT (Plastic Size)	BRASS	3/4"	PTF-1	H-12218	J-1400
			1"	PTF-2	H-12218	J-1400
4	STAINLESS STEEL CLAMP (2 Req'd per Connection)	Use on Plastic Pipe Only	3/4"	COMBO - HEX IDEAL No. 6816		
			1"			
5	PIPE	PLASTIC (Under 100 PSI)		Class 160, Ultra High Molecular Weight Polyethylene 3406 ASTM D-2239, Product Standard PS-11-69, SDR7		
		COPPER (100 PSI & Over)		Federal Spec. WW-T-799, Type K ASTM Spec. B88, Type K AWWA Spec. 75-CR, Type K		
6	METER (Furnished by A.W.D.)					
7	METER BOX		3/4"	FOG TITE B 9 1/2 H or T; or BROOKS 37H or T		
			1"	FOG TITE B 10 H or T		
8	PLUG SIZE X M.I.P.					

- NOTES:**
1. SPLICES - No Splices under blacktop, Maximum of one splice allowed. Use Mueller Union H-15400 or approved equal.
 2. See Service Connection Specification Sheet for more detailed installation information.
 3. Owners are responsible for installing Pressure Reducer on their system to protect their facilities from High Pressure.

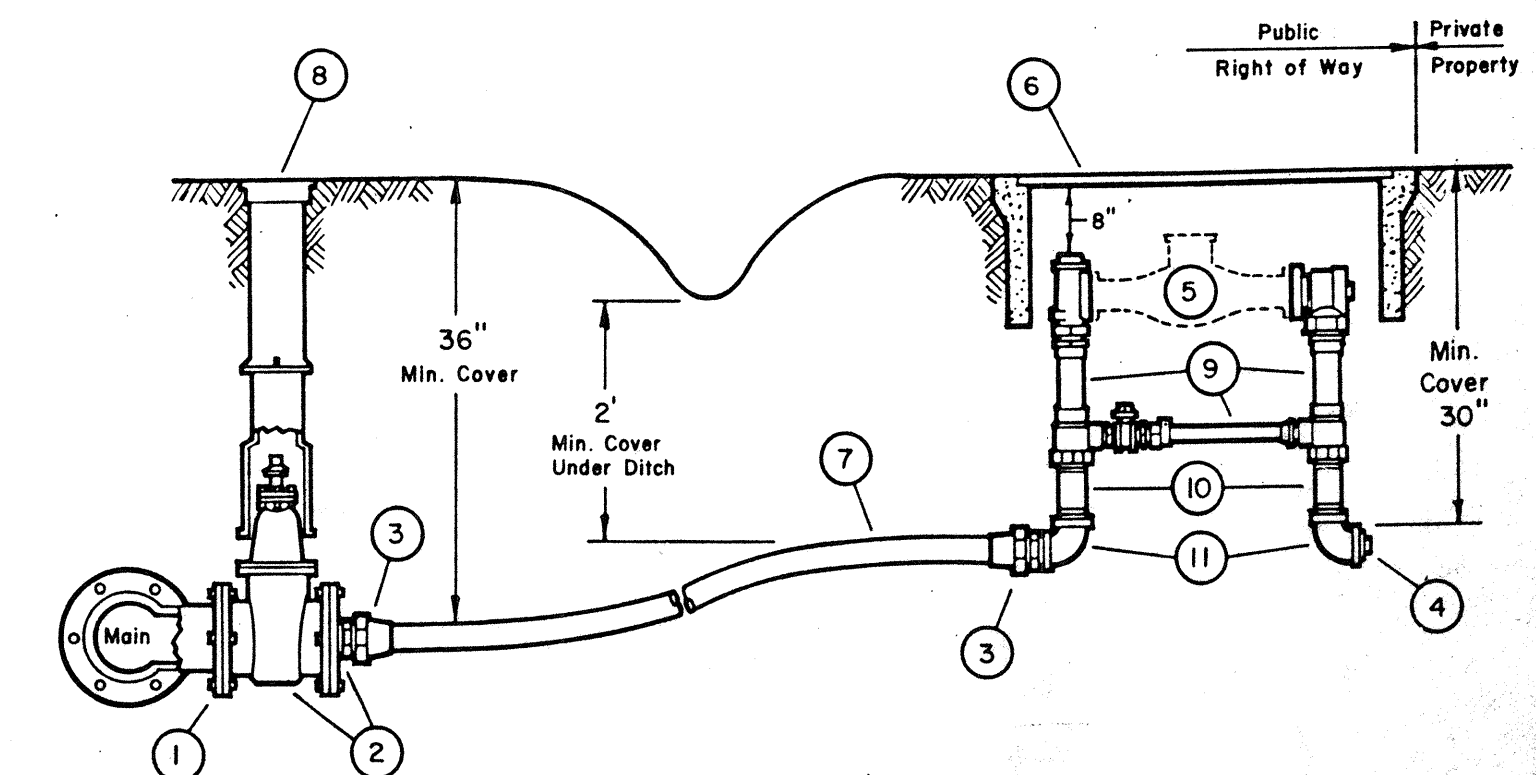
GENERAL NOTES

1. DUCTILE CAST IRON PIPE SHALL BE CEMENT MORTAR LINED TYTON JOINT CLASSED AS FOLLOWS:
6" - 8" - CLASS 53
10" - 12" - CLASS 52
14" - 20" - CLASS 51
24" - 36" - CLASS 50
2. TEES, BENDS & FITTINGS SHALL BE CLASS 250 DUCTILE CAST IRON OR CAST IRON. ALL FITTINGS SHALL BE COATED INSIDE WITH LIGHT CEMENT MORTAR LINING AND OUTSIDE WITH BITUMINUS COATING.
3. WATER MAIN TAPS OR CUT-INS: DEVELOPER SHALL EXCAVATE, PROVIDE ALL MATERIALS & PAY RELATED FEES. DISTRICT WILL MAKE TAP.
4. ALL MATERIALS LISTED ON PLANS WHICH ARE NOT INCORPORATED INTO THE WORK SHALL BECOME THE PROPERTY OF THE DISTRICT.
5. ALL MAINS & APPURTENANCES SHALL BE TESTED AT 250 P.S.I. & LEAKAGE SHALL NOT EXCEED A.W.W.A. SPECIFICATIONS, EXCEPT AS NOTED BELOW (SEE NOTE 12).
6. DISINFECTION OF MAINS SHALL BE DONE IN ACCORDANCE WITH A.P.W.A. 74-2.13
7. EXISTING VALVES MAY NOT BE ADEQUATE FOR TESTING PURPOSES. IF CONTRACTOR ELECTS TO TEST AGAINST EXISTING VALVES AND TEST FAILS, THEN CONTRACTORS SYSTEM SHALL BE DISCONNECTED AND TESTED INDEPENDENTLY ALL AT CONTRACTORS EXPENSE.
8. MINIMUM OF 36" VERTICAL CLEARANCE & 10 FEET HORIZONTAL CLEARANCE REQUIRED BETWEEN WATER & SEWER LINES.
9. OPERATION OF VALVES: SEVERE PENALTIES ARE PROVIDED FOR UNAUTHORIZED OPERATION OF EXISTING VALVES AND/OR TIE-IN VALVES. THESE VALVES MUST BE OPERATED BY DISTRICT PERSONNEL ONLY.
10. ALL STREETS OR ROADS SHALL BE GRADED TO WITHIN 6" OF FINAL GRADE BEFORE WATER LINES ARE INSTALLED.
11. PROVIDE REINFORCED CONCRETE VALVE MARKER POST FOR EACH VALVE LOCATED OUTSIDE OF PAVED AREAS. POST SHALL BE EQUAL TO "FOG-TITE" AND SHALL BE PAINTED WITH TWO BRUSHED COATS OF PRESERVATIVE (Brand) PAINT, No. 43-114 International Yellow. Distance to valve shall be stenciled in black numerals 2" high.
12. WHEN STATIC PRESSURE EXCEEDS 150 P.S.I. ALL MAINS AND APPURTENANCES SHALL BE TESTED AT 300 P.S.I.
13. A BACKFLOW PREVENTIVE DEVICE APPROVED BY A.W.D. SHALL BE REQUIRED ON WATER SERVICES WHERE IRRIGATION SYSTEMS, SWIMMING POOLS, JACUZZI'S, HOT TUBS AND THE LIKE ARE BEING SERVED; OR AS DIRECTED BY A.W.D.



1 1/2" & 2" Meter Service Installation

ALDERWOOD WATER DISTRICT



NO.	ITEM	MAT'L.	REMARKS
1	MJ x 4" FL TEE	CL or DC.I.P.	
2	4" FL x FL GV with 4" FL x 2" (or 1 1/2" with Brass Bushing) SCRW Reduction Flange.	A.W.W.A.	
3	Flared Copper Cplg. (Copper x M.I.P.T.)	Brass	FORD: 1 1/2", C28-66 2", C28-77 MUELLER: H-15425 JONES: J1531 HAYES: 5605
4	PLASTIC PLUG, Sched. 40	PVC	
5	METER		FURNISHED BY A.W.D.
6	Meter Box; Fog Tite 2" or Brooks 65-TR, with steel traffic cover (see note 4).		See Note 4
7	Type "K" Copper Pipe (Soft)	Copper	
8	Standard Cast-Iron Valve Box	Cast-Iron	
9	METER SETTER		1 1/2", FORD No. VBH66-12BX13 (or approved equal) 2", FORD No. VBH77-12BX17 (or approved equal)
10	6" NIPPLE (M.I.P.T. x M.I.P.T.)	Brass	6" or an approved length for proper grade set.
11	90° EL	Brass	

- NOTES:**
1. SPLICES - No Splices under blacktop, Maximum of one splice allowed. Use Mueller Union H-15400 or approved equal.
 2. See Service Connection Specification Sheet (sh. 2) for more detailed installation information.
 3. Owners are responsible for installing Pressure Reducer on their system to protect their facilities from High Pressure.
 4. Plastic Shell & Cover (Corson Industries 1324-15L) may be used in Non-Traffic areas only when approved by A.W.D.

REV.	DESCRIPTION	DWN.	DATE	APP'D.
V	ADDED BROOKS 37H or T to NOTE 7 of 3/4" Meter Service Inst'l.	FD	10-28-88	DLS
U	REV'D. NOTE 11 OF GENERAL NOTES (to conform to Note 1 of Hydrant Detail rev'd. 5-7-86)	FD	2-29-88	DLS
T	• REV'D. METER BOX on 1 1/2" & 2" SERVICE (No. 6) and Note 4 • ADDED "OR EQUAL" to 3/4" METER BOX (No. 7).....also Rev'd. Note 13 of Gen. Notes	FD	12-9-87	DLS
S	ADDED NOTE 13 TO GENERAL NOTES	FD	Jan. 15, '87	DLS
R	ADDED NOTE 5 TO FIRE HYDRANT & REVISED DWG.	FD	Dec. 23, '86	DLS
Q	REV'D. Meter Setter Numbers for 3/4" & 1" and 1 1/2" & 2"	FD	Dec. 11, '86	RP
P	REV'D. HYDRANT DETAIL (COREY TYPE ONLY)	FD	Oct. 1, '86	DLS
O	REV'D. NOTE 1 TO FIRE HYDRANT DETAIL	FD	May 7, '86	AB
N	REV'D. 3/4" & 1" METER DETAIL, Changed 1" Meter Setter to VH 94-15	FD	Jan. 9, '86	DLS
M	REV'D. 3/4" & 1" METER DETAIL, ADDED 1 1/2" & 2" METER DETAIL	FD	Dec. 5, '85	DLS
L	ADDED NOTE 12, ADDED 2x4 TO WATER METER DETAIL	FD	Jul. 29, '85	DLS
K	REVISED METER BOX CALLOUT TO INCLUDE DRIVEOVER BOXES	FD	Jan. 29, '85	DLS
J	DELETED CLOW F2500 HYDRANT	FD	Jul. 30, '84	PJB
I	ADDED NOTE 11 TO GEN. NOTES, ADDED CLOW F2500 HYDRANT	FD	Mar. 19, '84	PJB
H	REV'D. NOTE 2 ON HYDRANT, REV'D. 2" BLOWOFF ASSY. DWG.	FD	Jan. 16, '83	PJB
G	ADDED ACCEPTANCE OF BROOKS NO. 36-H METER BOX	FD	Jan. 27, '83	JK
F	ADDED NOTE 10 TO GENERAL NOTES	FD	Nov. 9, '82	MS
E	ADDED NOTE 9 TO GENERAL NOTES	FD	May 12, '82	JK
D	ADDED NOTE 8 TO GENERAL NOTES	FD	Feb. 9, '82	DLS
C	Elim. note 3, Restoration.....Added note ref. 1 1/2" & 2" Meters	FD	Nov. 24, '81	PJB
B	ADDED NOTE 7 TO GENERAL NOTES	FD	NOV. 6, '81	PJB
A	ADDED NOTE 5 TO FIRE HYDRANT DETAIL	FD	NOV. 2, '81	PJB

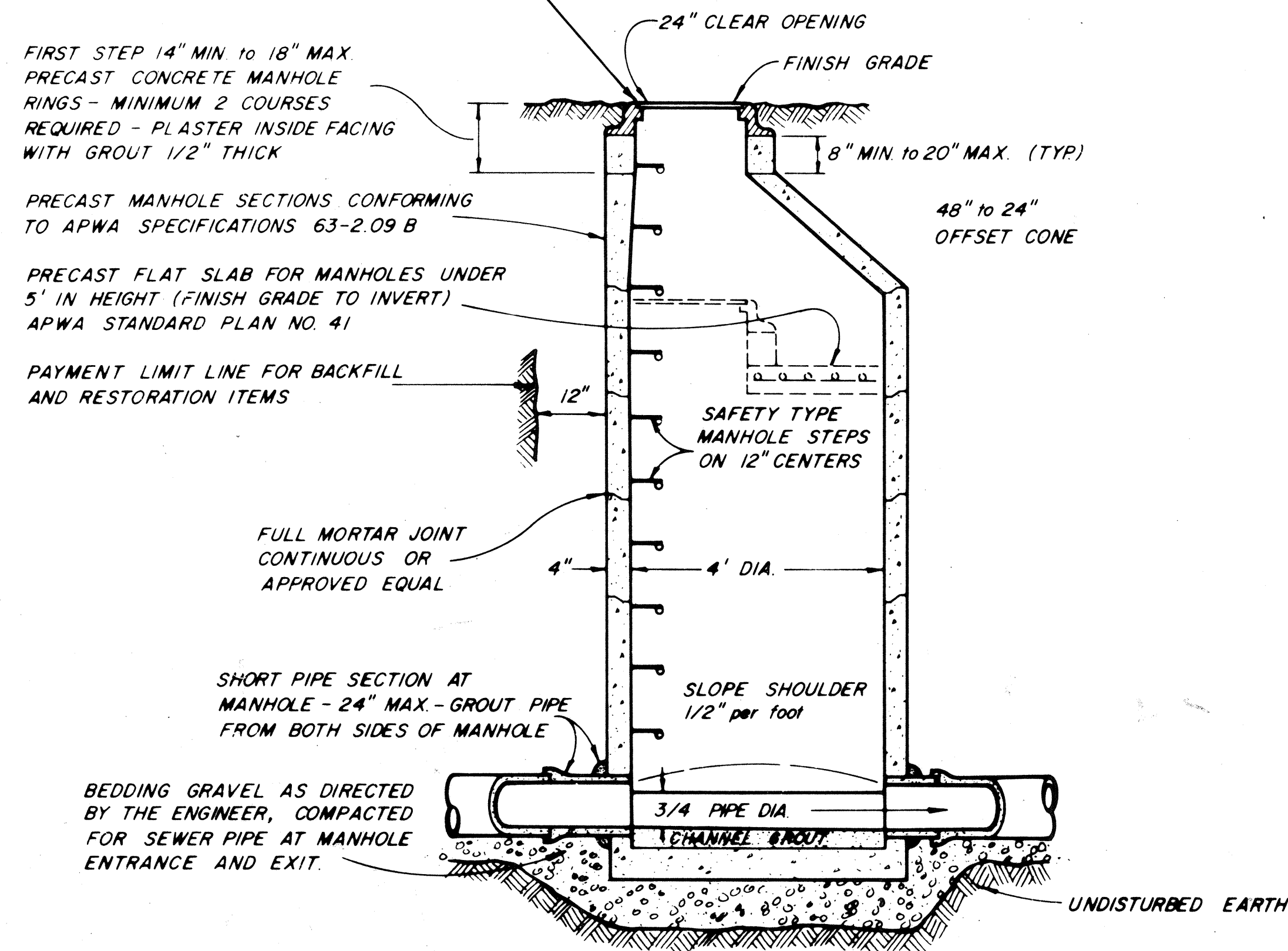
ALDERWOOD WATER DISTRICT
3626 - 156th ST. S.W. - Lynnwood, Wash.
743 - 4605 98036

STANDARD WATER DETAILS

Scale:	Not to Scale
Drawn:	FD
Date:	APRIL 1981
Designed:	ENGR. DEPT.
Approved:	PJB
Sheet:	OF

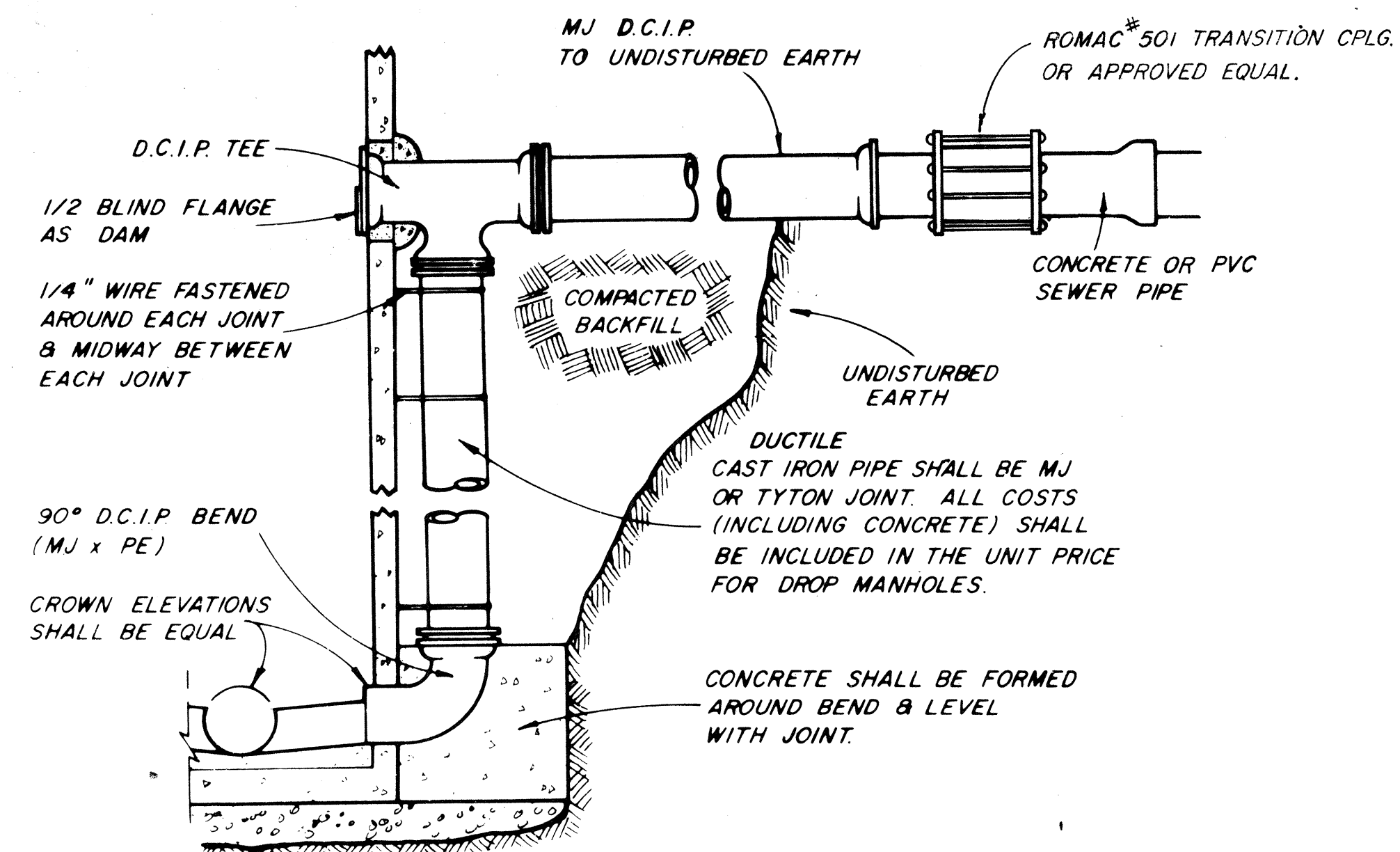
HDEV-487

● SATHER MFG. CO. INC. MODEL AWD-2440 FRAME & LID WITH CAST-IN HANDLE & 3 - 5/8" STAINLESS STEEL ALLEN HEAD CAP SCREWS OR APPROVED EQUAL. MFG'S. NAME SHALL BE CAST IN COVER.



NOTES:

1. MANHOLE INSTALLATION SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS IN SEC 63.
2. 1/2" x 4" DIA REMOVABLE PLYWOOD COVER SHALL BE PROVIDED FOR EACH MANHOLE TO BE INSTALLED AFTER TESTING & INSTALLATION HAS BEEN COMPLETED & SHALL REMAIN IN PLACE UNTIL ALL STREET WORK IN THE AREA HAS BEEN COMPLETED. COVERS SHALL BE REMOVED BY THE CONTRACTOR.
3. MIN. HEIGHT OF MANHOLE SHALL BE 5' UNLESS APPROVED BY DISTRICT ENGR.



6" TEE ON SEWER MAIN

PROPERTY LINE OR
EDGE OF A.W.D. ESM.T.

5'

RUBBER JOINT
BISCUIT

6" x 6" TEE, 3' LONG
IN VERTICAL POSITION

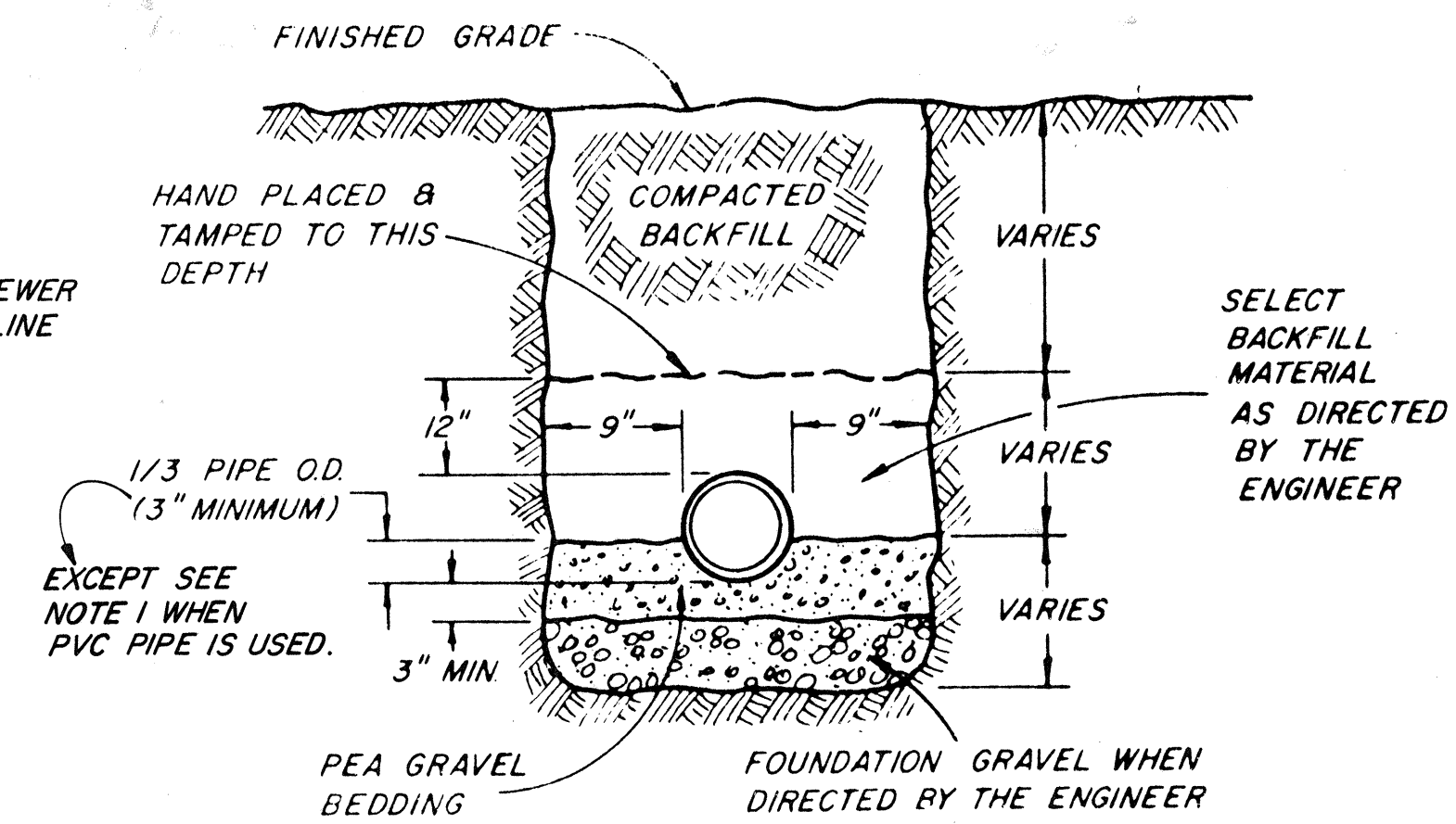
SEE NOTE 3

6" SIDE SEWER
MIN. SLOPE = 0.02 Ft./Ft.

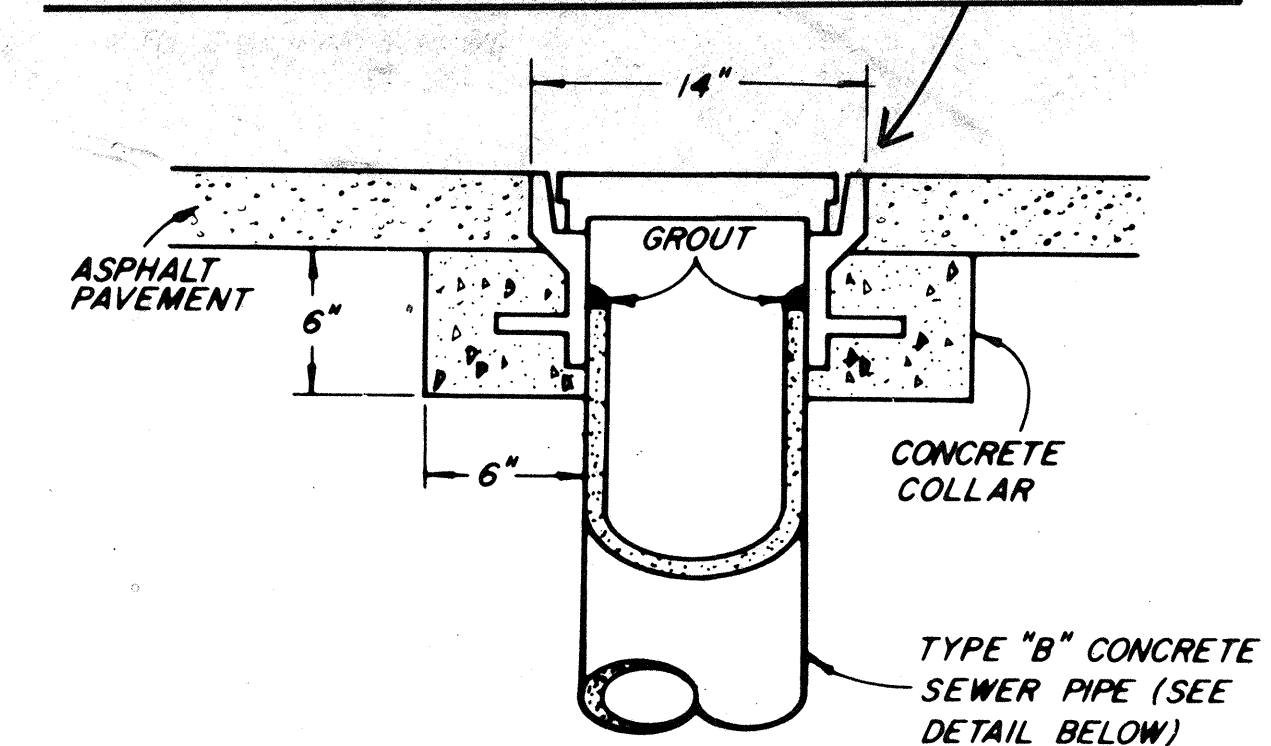
2" x 4" BOARD - LENGTH AS REQUIRED
IN EVEN FOOT INCREMENTS. PAINT TOP
5' WITH WHITE PAINT. STENCIL IN
BLOCK LETTERS THE WORD "SEWER" @
TOTAL LENGTH OF THE 2" x 4" BOARD.
LETTERING TO BE 3" IN HEIGHT. TOP OF
2" x 4" SHALL BE 4' ABOVE GROUND LEVEL

NOTES:

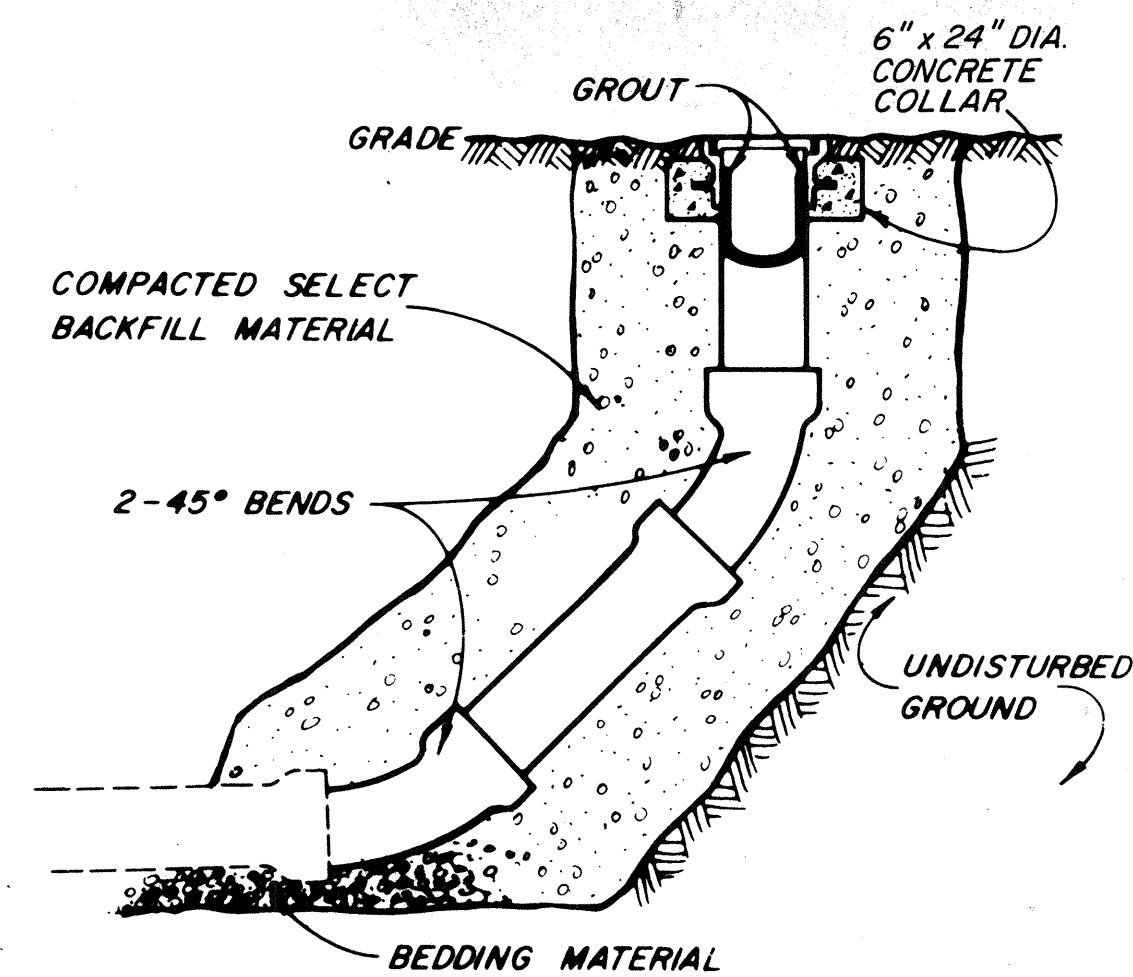
1. SIDE SEWER INSTALLATION SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS - SECTION 66.
2. 6"x6" VERT. TEE SHALL BE 3' MIN. IN LENGTH.
3. IF SIDE SEWER INSTALLS PVC THEN ELIMINATE 6"x6" TEE AND END WITH A 6" RUBBER GASKET PVC END CAP. BLOCK CAP AS DIRECTED BY ENGINEER.



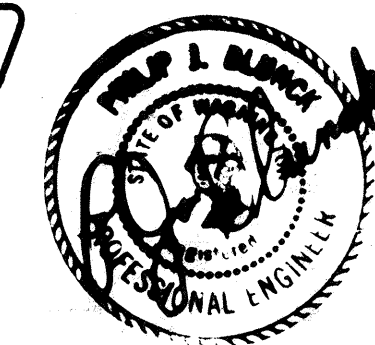
● SATHER MFG. CO. INC. MODEL AWD-1212 LOCKING CLEAN-OUT RING & COVER (OR EQUAL) WITH 2 STAINLESS STEEL CAP SCREWS.



STREET USE



EASEMENT USE



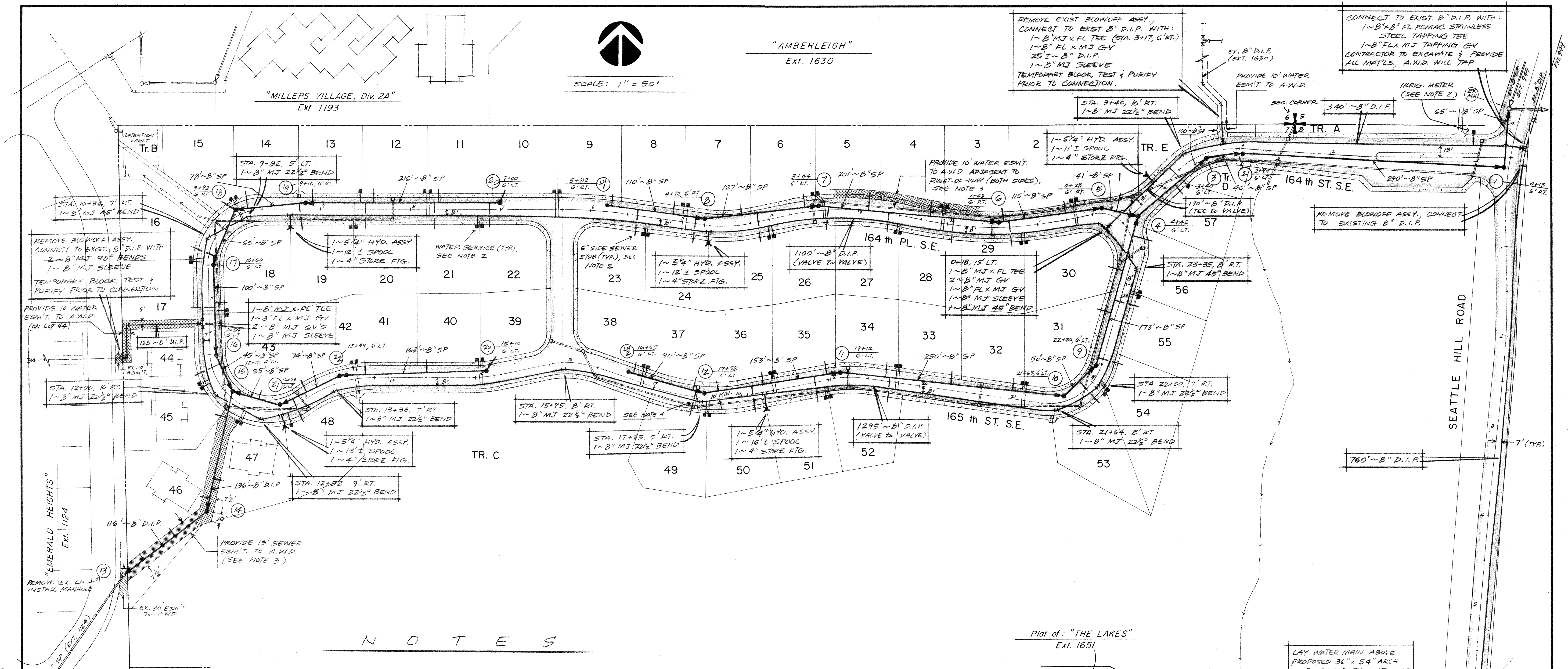
1. ASTM D 3033, D 3034 OR F 789 PVC PIPE MAY BE USED PROVIDED THAT:
 - (a.) CONCRETE SEWER PIPE (CSP) OR DUCTILE CAST IRON PIPE (DCIP) IS NOT SHOWN ON PLANS.
 - (c.) DEPTH DOES NOT EXCEED 16 FEET
 - (d.) TOP OF BEDDING IS EXTENDED TO 4" ABOVE PIPE.
 - (e.) CONNECTIONS TO MANHOLES ARE MADE WITH AC MANHOLE COUPLING.
 - (f.) DEFLECTION TEST PER APWA SPEC. IS MADE 30 DAYS OR MORE AFTER BACKFILL.
2. TYPE OR CLASS OF FATHER SHALL NOT BE CHANGED BETWEEN MANHOLES OR LAMPHOLES.
3. INSTALLATION & TESTING OF SEWERS SHALL BE IN ACCORDANCE WITH APWA SPECIFICATIONS - SECTION 61 & 62
4. ALL PIPE SHALL BE "RUBBER GASKET" CONCRETE SEWER PIPE CONFORMING TO ASTM SPECIFICATIONS - C14 CLASS 3 - UNLESS OTHERWISE NOTED.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING REPAIRED ASPHALT & GRAVEL SURFACES UNTIL ACCEPTED BY THE COUNTY ENGINEER.
6. GRADES ESTABLISHED BY CONTOURS FURNISHED BY THE DEVELOPER. DEVELOPER SHALL BE RESPONSIBLE FOR ADJUSTING GRADES TO ACCOMMODATE FIELD CONDITIONS WHICH SHALL FIRST BE APPROVED BY THE ENGINEER.
7. ALL PERMITS FOR CONSTRUCTION SHALL BE ACQUIRED BY DEVELOPER
8. DEVELOPER SHALL BE RESPONSIBLE FOR ADJUSTING MANHOLE FRAMES & COVERS UPON COMPLETION OF FINAL LOT GRADES.
9. DEVELOPER SHALL CONTACT UTILITIES FOR EXACT LOCATIONS.
10. ALL 6" SIDE SEWERS INCLUDING TEES SHALL END WITH A 6" VERTICAL INSPECTION TEE, 3 FT. MIN. LENGTH. EXCEPT AS NOTED IN NOTE 3 S.S. DETAIL.
11. SEWER CONSTRUCTION STAKING SHALL BE PROVIDED BY THE DEVELOPER.
12. WHERE SHOWN ON THE PLANS, THE DEVELOPER SHALL EXCAVATE & TAPPING WILL TAP EXISTING SEWER. DEVELOPER SHALL PAY COST OF TAPPING.
13. FIELD VERIFY MANHOLE INVERT AND ADJUST GRADE ACCORDINGLY WHEN CONNECTING TO EXISTING MANHOLES.
14. SANITARY SEWER SHALL BE TESTED AFTER COMPLETION OF ALL OTHER UNDERGROUND UTILITIES.
15. A SUITABLE PLUG SHALL BE INSTALLED IMMEDIATELY UPON COMMENCEMENT OF CONSTRUCTION OF SANITARY SEWER AND SHALL REMAIN INSTALLED UNTIL FINAL ACCEPTANCE OF PROJECT. IF PLUG IS NOT INSTALLED, THE WATER DISTRICT WILL INSTALL A PLUG AND CHARGE ACCORDINGLY.
16. 6" SEWER CLEANOUTS ARE REQUIRED EVERY 100 FEET AND AT BENDS GREATER THAN 45°. THE CLEANOUT SHALL BE A WYE LATERAL AND SHALL BE BROUGHT TO WITHIN 18" OF THE SURFACE IN AN UNPAVED AREA OR BROUGHT TO THE SURFACE IN A PAVED AREA WITH A CAST IRON COVER (SEE LAMPHOLE DETAIL - STREET USE).
17. SEWER MAINS 8" & LARGER SHALL BE T.V. INSPECTED BY DEVELOPER'S CONTRACTOR. MANHOLES SHALL BE CHANNELED, MAINS FLUSHED AND WATER RUN IN LINE WHEN TELEVIEWED, ALL CONFORMING TO RESOLUTION SR 642-83.
18. MINIMUM OF 36" VERTICAL CLEARANCE & 10 FEET HORIZONTAL CLEARANCE REQUIRED BETWEEN SEWER & WATER LINES. IF UNABLE TO MEET, THEN CONSTRUCT PER SEC. 2.41 "D.O.E. CRITERIA FOR SEWAGE WORKS DESIGN" AND AMENDMENTS THERETO.
19. WHERE A NEW MANHOLE IS REQUIRED FOR CONSTRUCTION OVER AN EXISTING PVC SEWER MAIN A STANDARD MANHOLE SHALL BE USED AND CONNECTED TO EXISTING MAIN USING A.C. MANHOLE COUPLINGS.
20. UNLESS OTHERWISE NOTED, ALL D.C.I.P. SHALL BE A.W.W.A. C 151 CLASS 53

L	Revised Manhole & Lamphole Cover & Frame Reference	FD	3-31-86	DS
K	REVISED STANDING SIDE SEWER DETAIL	FD	2-22-85	AB
J	ADDED F789 TO NOTE 1, also DCIP TO NOTE 1(a).	FD	6-28-84	PJB
H	CHANGED DROP M.H., NOTES 1(a), 10, 18, & ADDED 20	BB	9-1-83	PJB
G	CHANGED NOTE 17 (Developer's Contractor to T.V.)	FD	7-1-83	PJB
F	ADDED NOTE 19	FD	5-30-83	PJB
E	Changed Note 1 (d.) from 12" to 4" of General Notes	FD	6-9-82	PJB
D	ELIM. NOTE 1 (b.), REV'D 1 (c.) & 1 (d.) of General Notes	FD	5-28-82	JK
C	ADDED NOTE 18	FD	2-9-82	DLS
B	ADDED NOTE 17	FD	4-6-81	PJB
A	REV'D. NOTE ON MANHOLE COVERS	FD	11-17-80	PJB
REV.	D E S C R I P T I O N	DWN.	DATE	APPD.

ALDERWOOD WATER DISTRICT
3626 - 156 th ST. S.W. Lynnwood, Wash.
743 - 4605 98036

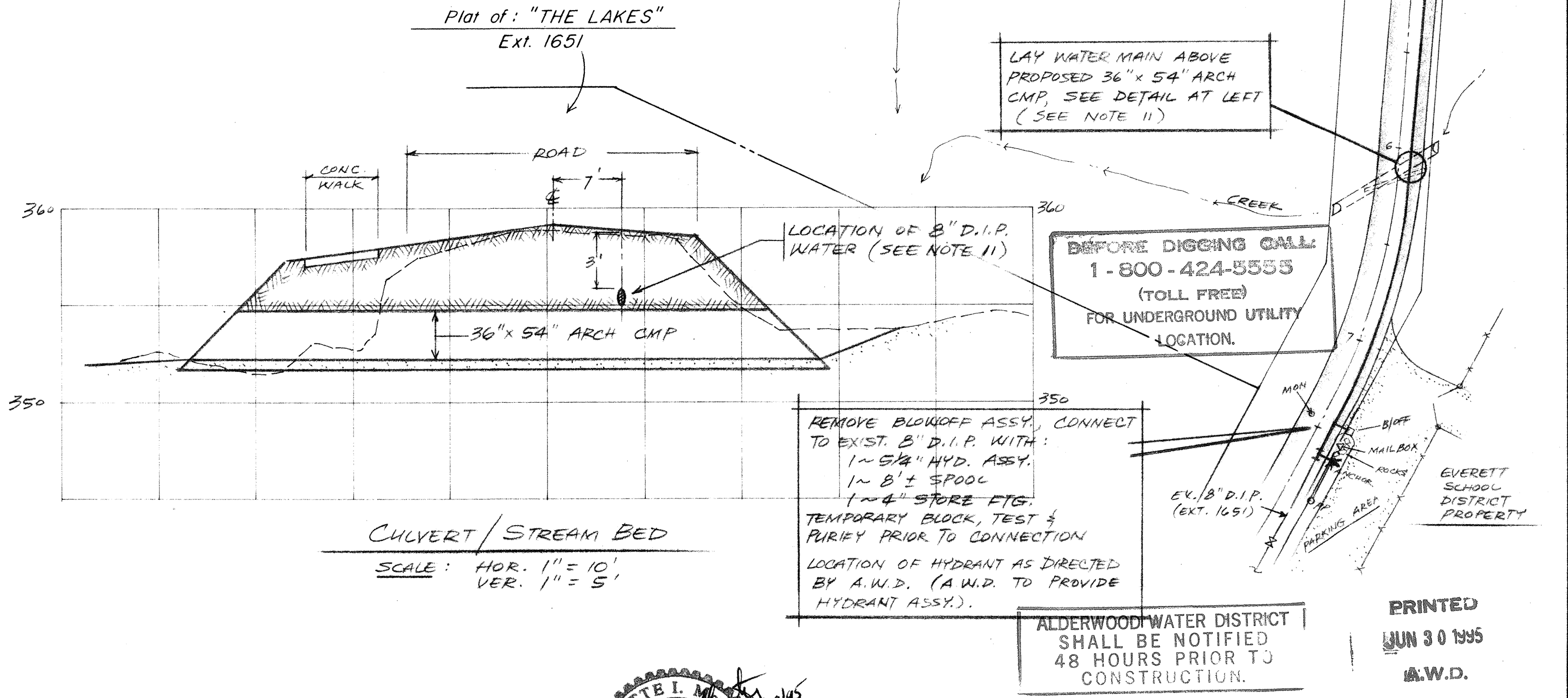
STANDARD SEWER DETAILS

Water Ext. No.	
Sewer Ext. No.	
Scale: NOT TO SCALE	
Drawn	FD
Date	OCT. 1980
Designed	PJB
Approved	LOE
Sheet	1 of 1



NOTES

- APPROX. STATIC WATER PRESSURE IS 75 TO 90 P.S.I. DEVELOPER IS RESPONSIBLE FOR INSTALLING PRESSURE REDUCING VALVES ON THE PRIVATE SIDE OF METER TO PROTECT FACILITY FROM HIGH PRESSURE.
- ALL METER (DOMESTIC & IRRIGATION) SIZES & LOCATIONS, AND SIDE SEWER LOCATIONS SHALL BE VERIFIED BY DEVELOPER/CONTRACTOR PRIOR TO INSTALLATION. LOT CORNERS & DRIVEWAYS SHALL BE VERIFIED. METERS ARE NOT ALLOWED IN DRIVEWAYS. IRRIGATION METER SHALL BE INSTALLED WITH AN APPROVED BACKFLOW DEVICE.
- EASEMENTS:
 - ALL EASEMENTS SHALL BE FREE FROM ANY ENCROACHMENTS, SUCH AS COVERED PARKING, OVERHANGS, FOUNDATIONS, ETC.
 - A 10' WATER ESM'T. SHALL BE PROVIDED TO A.W.D. ADJACENT TO RIGHT-OF-WAY ON ENTIRE PLAT ROADWAY (BOTH SIDES) TO ENCOMPASS METERS & HYDRANTS. A "NO-FENCING" CLAUSE TO BE INCLUDED.
 - SEWER & WATER MAIN ESM'TS. SHALL BE BASED ON "AS-BUILT" CONDITIONS.
 - ALL EASEMENTS SHALL BE SHOWN ON FACE OF PLAT TO BE RECORDED.
- CONSTRUCT WATER MAIN DEEPER THAN STORM SEWER WHERE NECESSARY TO PROVIDE MIN. COVER AND/OR UNDISTURBED SOIL TO BLOCK AGAINST.
- DEVELOPER/CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES (VERTICALLY & HORIZONTALLY) WHETHER SHOWN ON PLANS OR NOT, PRIOR TO CONSTRUCTION.
- REFER TO ALDERWOOD WATER DISTRICT STANDARD DETAIL SHEETS FOR DETAILS, NOTES & SPECIFICATIONS FOR WATER & SEWER.
- SEWER & WATER DESIGN BASED ON HORIZONTAL & VERTICAL DATA ON CIVIL PLANS PROVIDED BY OSTERGAARD & ROBINSON ENGRS.
- ALL DUCTILE IRON PIPE (D.I.P.) SHALL BE CLASS B3. ALL SIDE SEWERS OFF 8" D.I.P. SHALL BE D.I.P. TO PROPERTY LINE OR LIMITS OF EASEMENT.
- DEVELOPER MUST OBTAIN A PERMIT FROM CITY OF MILL CREEK PRIOR TO STARTING WORK. A COPY OF THIS PERMIT MUST BE SUBMITTED TO A.W.D. BEFORE A "PRE-CONSTRUCTION" MEETING CAN BE SCHEDULED.
- MINIMUM ACCEPTABLE GRADE ON 8" MAINLINE SEWER IS 0.0050 FT./FT. MINIMUM ACCEPTABLE GRADE ON SIDE SEWER IS 0.0200 FT./FT.



CONSTRUCT WATER AND SEWER
 3626 - 156th ST. S.W.
 743 - 4605

ALDERWOOD WATER DISTRICT
 3626 - 156th ST. S.W.
 743 - 4605

WINSLOW

ALDERWOOD WATER DISTRICT 3626 - 156th ST. S.W. 743 - 4605		EXT. NO. 1708 Scale: 1" = 50' Drawn: FD Date: JUNE 29, 1995 Designed: FD Approved: B/M Sheet: 1 of 3	
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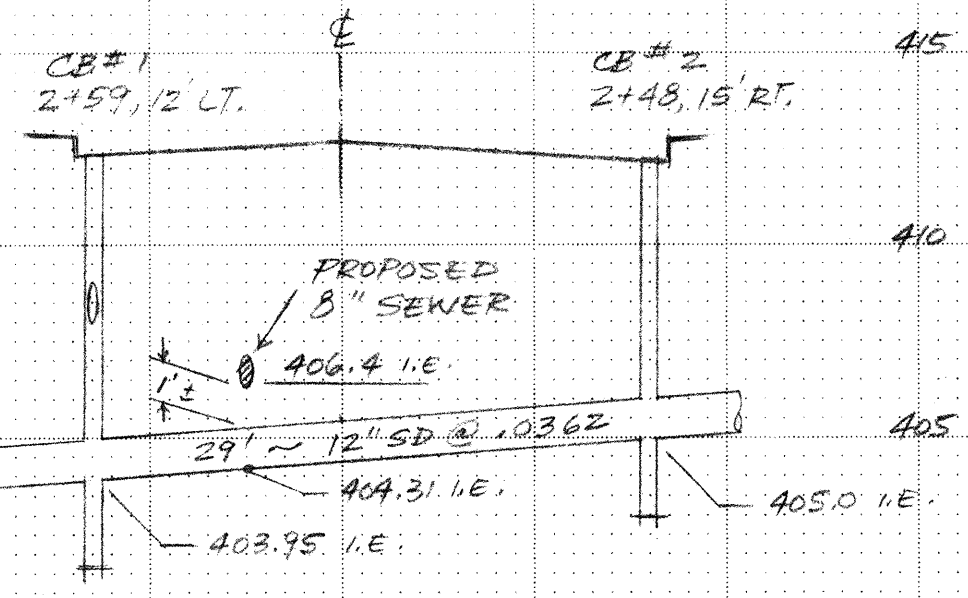
NOTE: FINISH GRADE ELEVATIONS SHOWN FOR EACH LOT ARE BASED ON 'GRADING PLAN' FURNISHED BY DEVELOPER.

165 th ST. S.E.

164 th ST. S.E.

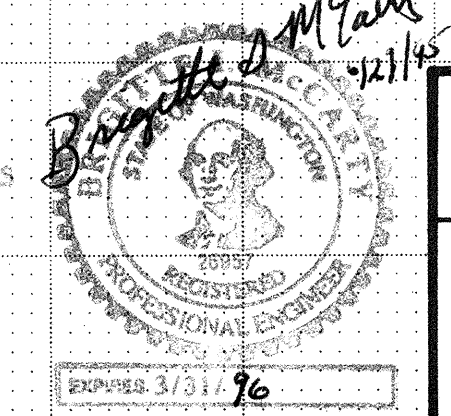
SEATTLE HILL RD.

164 th PL. S.E.



VERIFY INVERT ELEVATION OF EXISTING MANHOLE #1 ACCORDINGLY. MINIMUM SLOPE ALLOWED IS 0.0050 FT./FT.

CONSTRUCT WATER AND SEWER FACILITIES FOR ALDERWOOD WATER DISTRICT. STATIONED DETAILS FOR PROJECT NO. 1708.

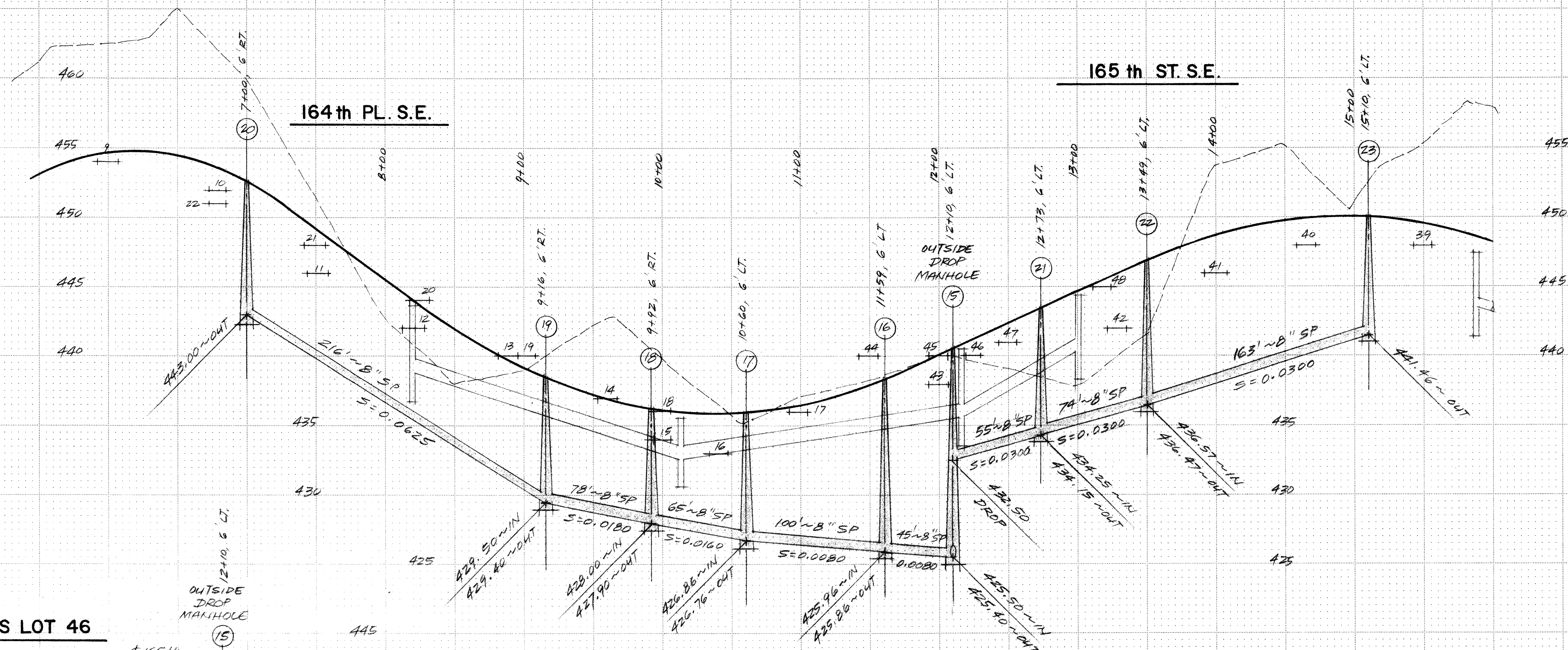


ALDERWOOD WATER DISTRICT
3626 - 156 th ST. S.W. Lynnwood, Wash.
743 - 4605 98036

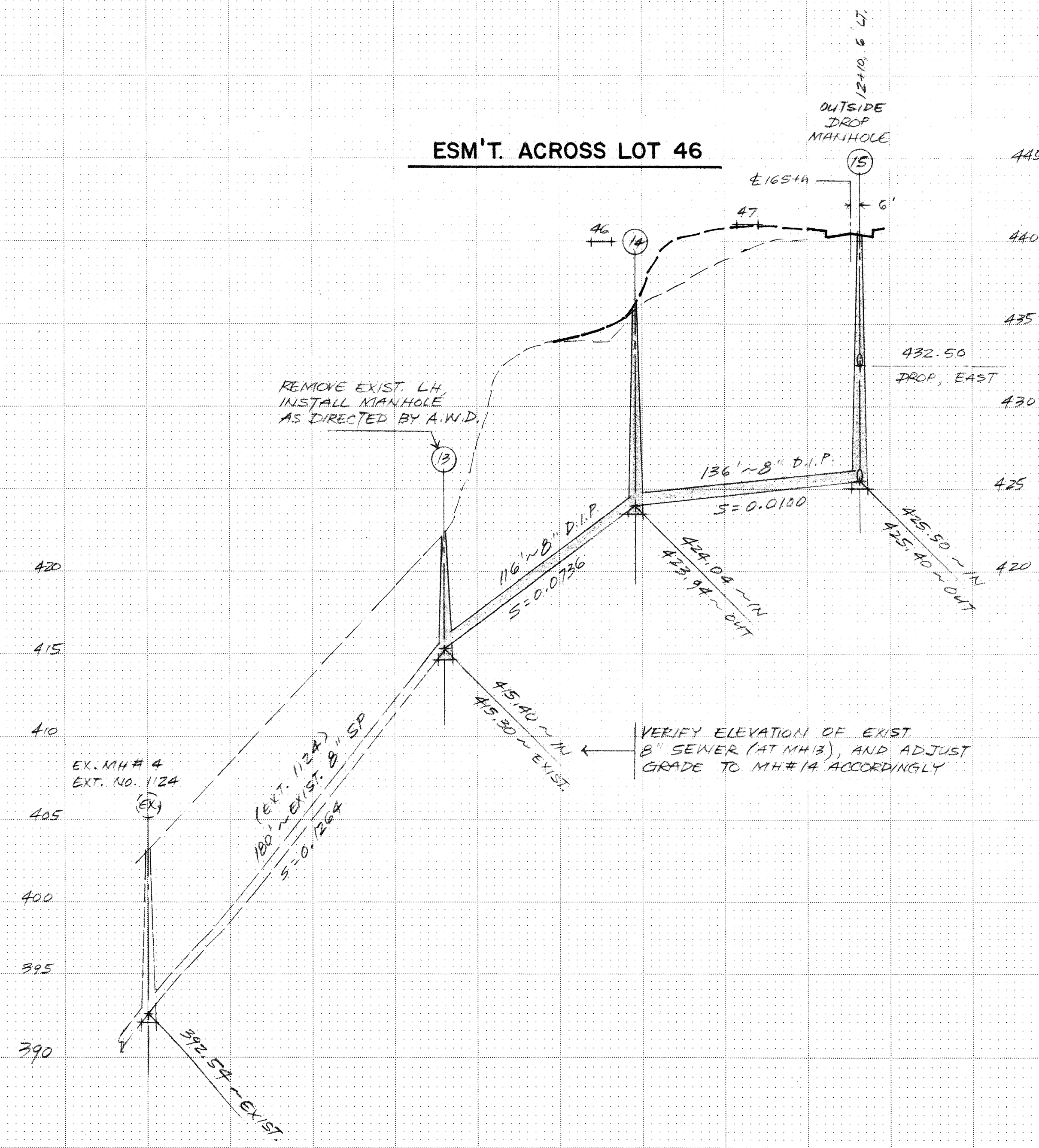
WINSLOW

EXT. NO. 1708	
Scale:	Hor. 1"=50', Ver. 1"=5'
Drawn	FD
Date	JUNE 29, 1995
Designed	FD
Approved	BIM
Sheet	2 of 3

HDEV-485

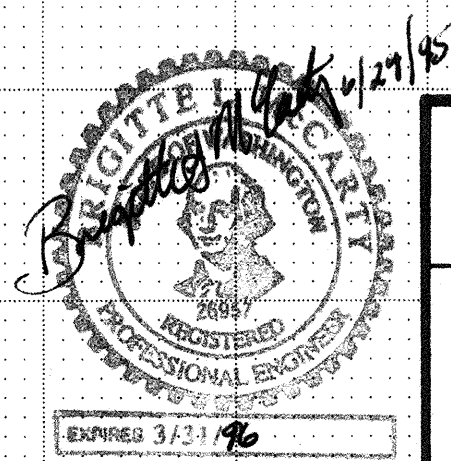


ESM'T. ACROSS LOT 46



NOTE: FINISH GRADE ELEVATIONS SHOWN FOR EACH LOT ARE BASED ON 'GRADING PLAN' PROVIDED BY DEVELOPER.

CONSTRUCT WATER AND SEWER FACILITIES FOR ALDERWOOD WATER DISTRICT STANDARD DETAILS AND SPECIFICATIONS



ALDERWOOD WATER DISTRICT
3826 - 156th ST. S.W. Lynnwood, Wash.
743 - 4605 98036

WINSLOW

EXT. NO. 1708	
Scale: Hor. 1" = 50', Vert. 1" = 5'	
Drawn	FD
Date	JUNE 29, 1995
Designed	FD
Approved	BIM
Sheet	3 of 3

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