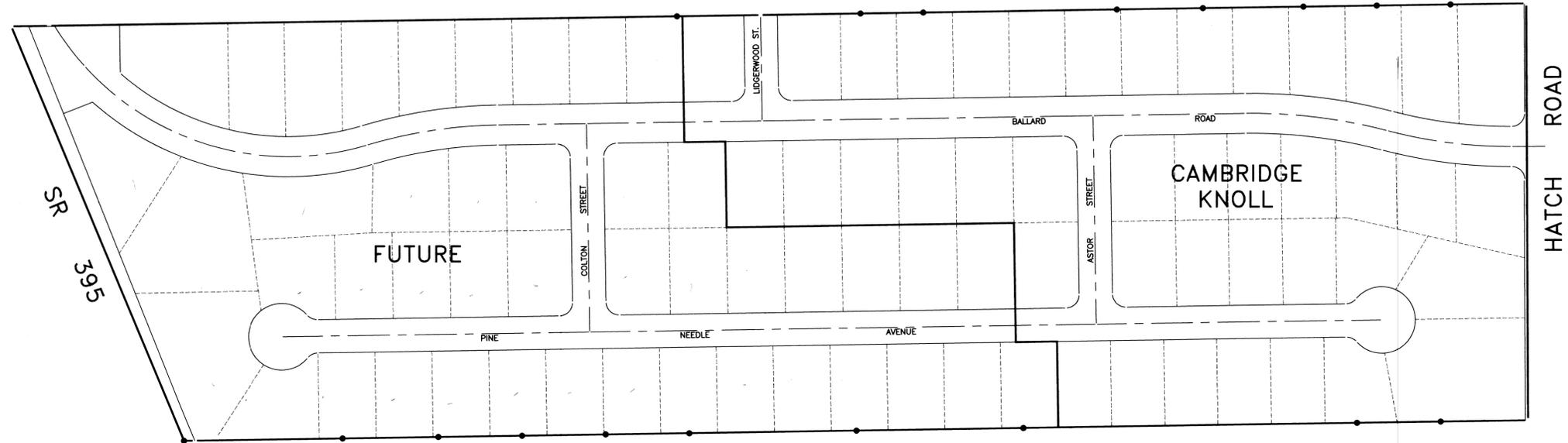


CAMBRIDGE KNOLL



NOTE:

AN EROSION/SEDIMENTATION CONTROL (ESC) PLAN IS REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, AND CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER UNTIL ALL CONSTRUCTION IS COMPLETED AND ACCEPTED BY SPOKANE COUNTY, OR UNTIL VEGETATION IS ESTABLISHED THROUGHOUT THE SITE, AND ACCEPTED BY SPOKANE COUNTY, WHICHEVER IS LATER.

INDEX TO DRAWINGS

CAMBRIDGE KNOLL

BALLARD ROAD, STA. 13+63.24 TO 26+40
 LIDGERWOOD STREET AND ASTOR STREET
 PINE NEEDLE AVE., STA. 18+44.59 TO CUL DE SAC
 EAST RETENTION POND AND DRAINAGE DETAILS
 WATER PLAN AND DETAILS
 EROSION CONTROL PLAN
 EROSION CONTROL NOTES

SHT. NO.

2
3
4
5
10
11
12



PERMIT REQUIRED!
 NOTIFY THE PERMIT ENGINEER
456-3600
 24 HRS. PRIOR TO CONSTRUCTION



Randy L. Lepp
 DEVELOPER'S APPROVAL

401001UJWG 08-08-95

GRADE ORDINANCE LIST					COUNTY DATUM		SCALE		DATE
FROM	TO	ORD. NO.	DATE	FILE NO.	TBM	NO. SPIKE IN WEST FACE OF POWER POLE	HORIZONTAL	VERTICAL	JUNE 1995
						1943.71	1"=100'	NA	DRAWN JKO
									CHECKED
									APPROVED

AC ADAMS & CLARK, Inc.
 1720 W. Fourth Ave.
 Spokane, Wa. 99204-1702
 509-747-4600

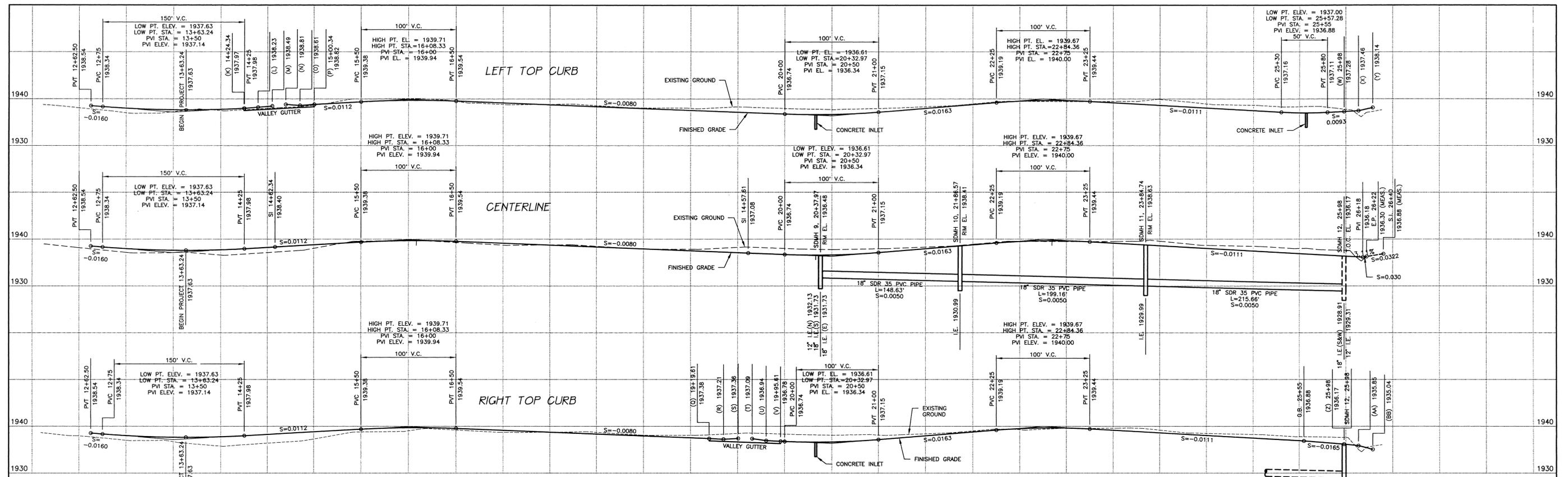
CAMBRIDGE KNOLL
 COVER SHEET

TYPE OF IMPROVEMENT: STREET/WATER	
PROJECT NUMBER	PLAN NUMBER
94-001	1

CALL BEFORE YOU DIG 456-8000

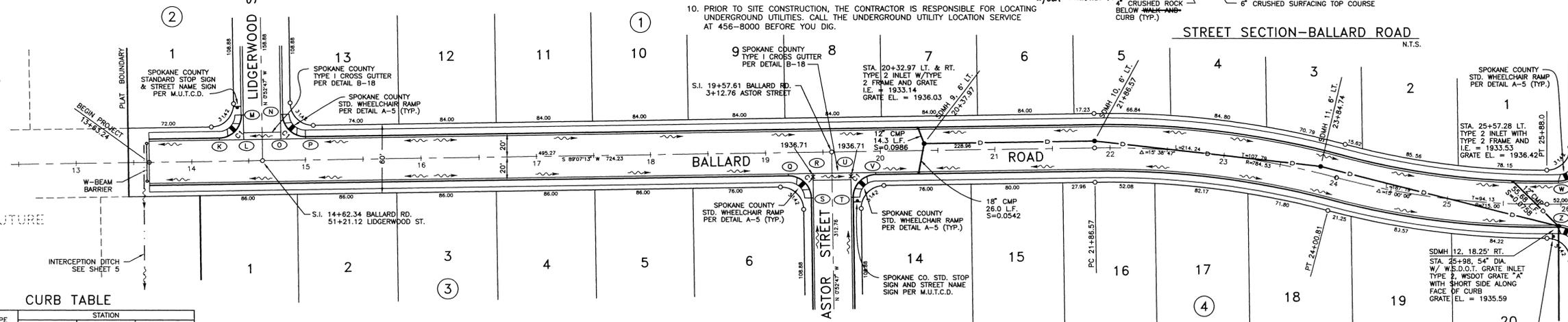
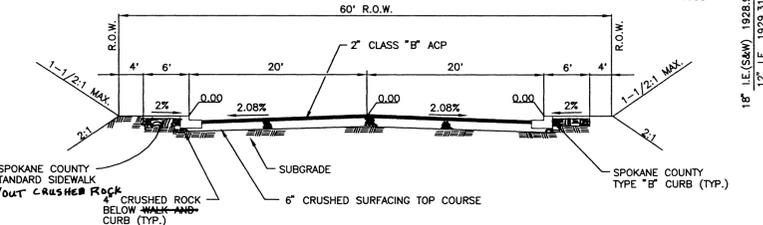
1696

P:\94-001\001001UJ Mod Jun 7 09:46:53 1995



- NOTES:**
- ALL CURB DATA IS TO BACK OF CURB, UNLESS SHOWN OTHERWISE.
 - STORM DRAIN MANHOLES (SDMH) ARE W.S.D.O.T. CATCH BASINS TYPE 2, 48" DIA. WITH SPOKANE CO. METAL FRAME AND SOLID COVER, TYPE 4. THE SOLID LID IS TO BE LABELED "STORM", UNLESS DETAILED OTHERWISE.
 - REFER TO SCRS 1992 FOR DETAILS LISTED HEREON.
 - REFER TO DETAILS B-6, B-7, B-11, B-13, AND B-14 FOR CONCRETE INLET DETAILS.
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 - FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK, AND BETWEEN THE WASHED DRAINROCK AND THE NATIVE SOILS.
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NOTE:
ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT), THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND AS AMENDED BY SPOKANE COUNTY STANDARDS FOR ROAD & SEWER CONSTRUCTION (SCRS) 1992 & HERETO.



CURB TABLE

LABEL	TYPE	STATION
Q	BCR	BALLARD RD. 19+19.61
R	MCR	
S	ECR	2+72.76
T	BCR	2+72.76
U	MCR	
V	ECR	19+95.61
W	BCR	25+98.00
X	MCR	
Y	ECR	8+08.82
Z	BCR	25+98.00
AA	MCR	
BB	ECR	7+28.82

CURB TABLE

LABEL	TYPE	STATION
K	BCR	BALLARD RD. COLTON ST.
L	MCR	14+24.34
M	ECR	
N	BCR	0+40.00
O	MCR	
P	ECR	15+00.34

CURB RETURN DATA

CURB RETURN	RADIUS	LENGTH	TANGENT	DELTA
C1	19.50'	30.63'	19.50'	90°00'00"

NOTE: DATA IS TO THE BACK OF CURB

GRADE ORDINANCE LIST

FROM	TO	ORD. NO.	DATE	FILE NO.

COUNTY DATUM

DATE	SCALE
JUNE 1995	HORIZONTAL 1"=50'
	VERTICAL 1"=10'

AC ADAMS & CLARK, Inc.
1720 W. Fourth Ave.
Spokane, Wa. 99204-1702
509-747-4600

**CAMBRIDGE KNOLL
BALLARD ROAD**
STA. 13+63.24 TO STA. 26+40

TYPE OF IMPROVEMENT: STREET

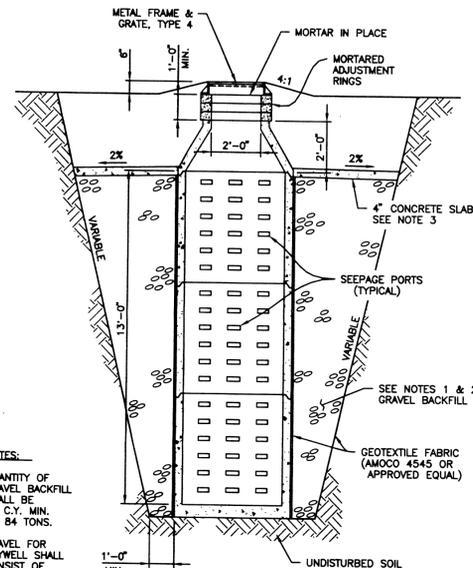
PROJECT NUMBER	PLAN NUMBER
94-001	2

DEVELOPER'S APPROVAL
Randy L. LeBeyec



PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION
4/25/00 Plans Change Accepted
BY SPOKANE COUNTY & Bill Remington 4/26/00

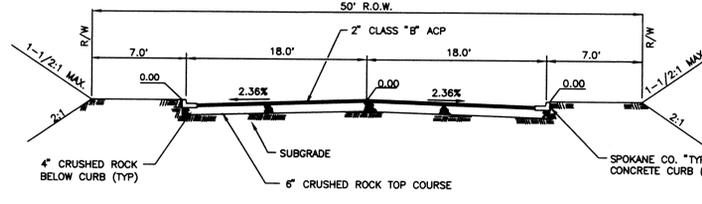
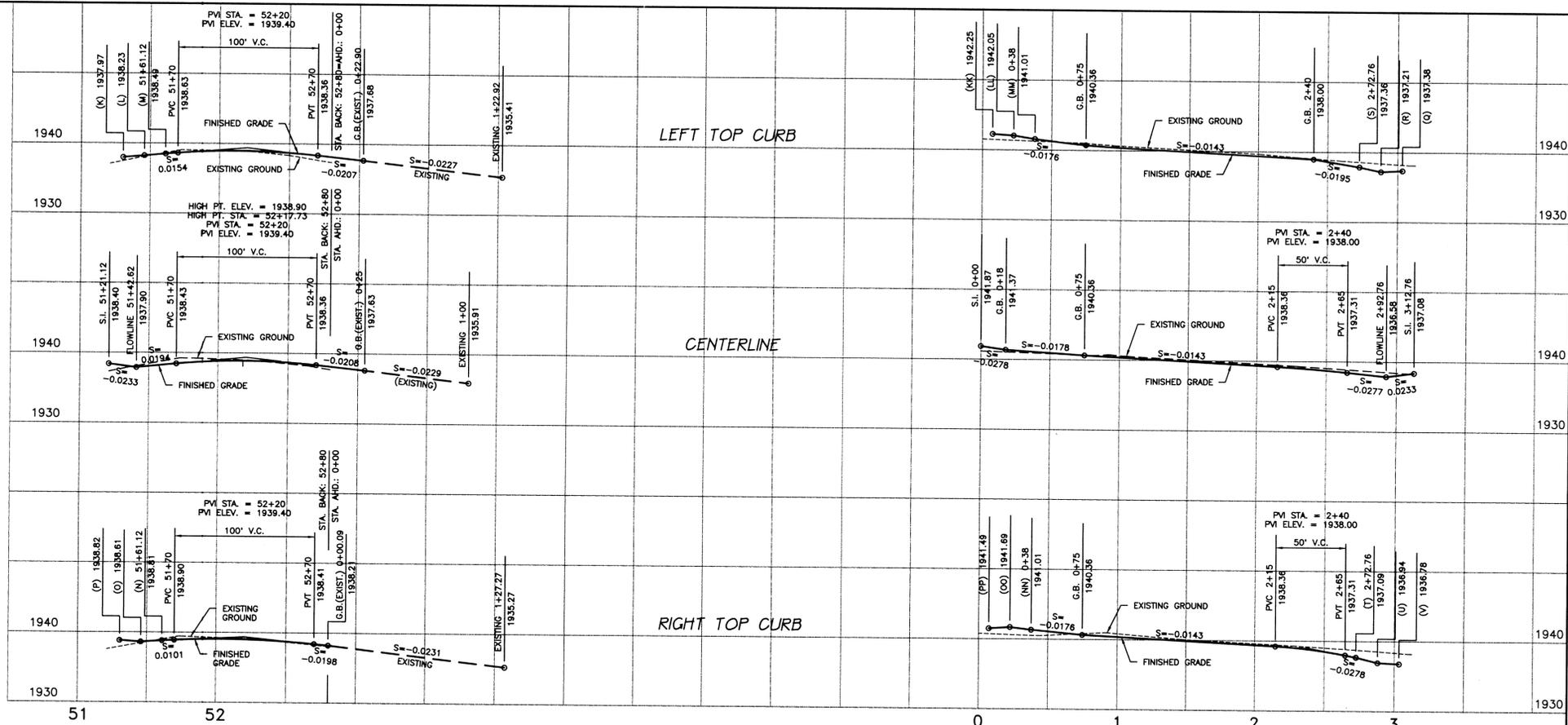
CALL BEFORE YOU DIG 456-8000



- NOTES:**
- QUANTITY OF GRAVEL BACKFILL SHALL BE 60 C.Y. MIN. OR 84 TONS.
 - GRAVEL FOR DRYWELL SHALL CONSIST OF WASHED GRAVEL GRADED FROM 1" TO 3" WITH A MAX. OF 5% PASSING THE U.S. No. 200 SCREEN, AS MEASURED BY WEIGHT. A MAX. OF 10% OF THE AGGREGATE, AS MEASURED BY WEIGHT, MAY BE CRUSHED OR FRACTURED ROCK. THE REMAINING 90% SHALL BE NATURALLY OCCURRING UNFRACTURED MATERIAL.
 - CONC. SLAB SHALL BE CLASS 3000 CONC.
 - SEE SPOKANE COUNTY STANDARD PLAN SHEETS B-2 & B-3 FOR PRECAST CONCRETE DETAILS.
 - ADJUSTMENT BLOCKS SHALL BE CEMENT CONC. 90% SHALL BE NATURALLY OCCURRING UNFRACTURED MATERIAL.
 - PRECAST RISER MAY BE USED IN COMBINATION WITH OR LIEU OF ADJUSTING BLOCKS.

TRIPLE DEPTH DRYWELL
NOT TO SCALE

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TYPICAL STREET SECTION
LIDGERWOOD, ASTOR & COLTON STREETS
N.T.S.

APPROVED FOR
SPOKANE COUNTY ENG.
BY *Dean Francis, P.E.*
CONSTRUCTION
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION



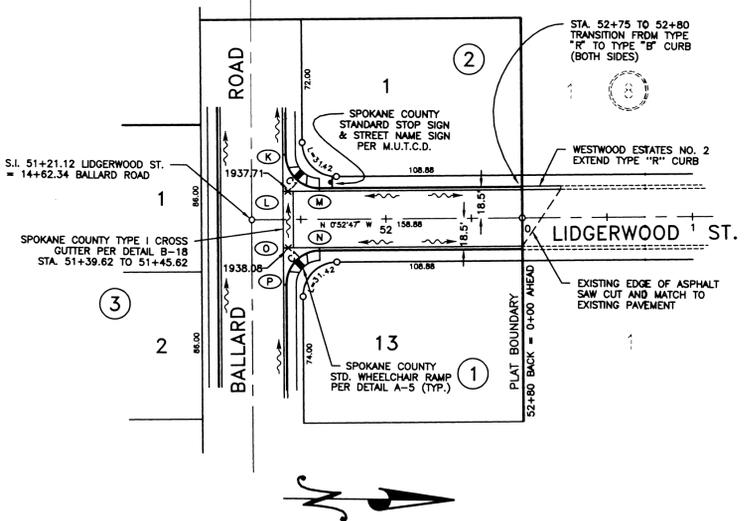
CURB RETURN DATA

CURB RETURN	RADIUS	LENGTH	TANGENT	DELTA
C1	19.50'	30.63'	19.50'	90°00'00"

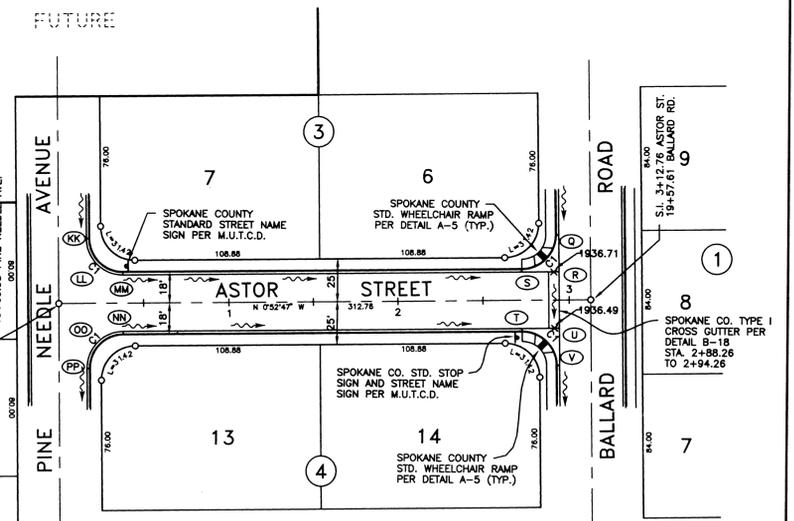
NOTE: DATA IS TO THE BACK OF CURB

CURB TABLE

LABEL	TYPE	STATION		
		PINE NEEDLE	LIDGERWOOD	ASTOR STREET
K	BCR			
L	MCR			
M	ECR	51+61.12		
N	ECR	51+61.12		
O	MCR			
P	BCR		15+00.34	
Q	ECR		19+19.61	
R	MCR			
S	BCR			2+72.76
T	BCR			2+72.76
U	MCR			
V	ECR			
KK	BCR	19+27.58	19+95.61	
LL	MCR			
MM	ECR			0+38.00
NN	ECR			0+38.00
OO	MCR			
PP	BCR	20+03.58		



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Randy L. Leland
DEVELOPER'S APPROVAL

REVISIONS

BY	DATE	PROJ.	FROM	AS BUILT	TO	ACCEPT

GRADE ORDINANCE LIST

FROM	TO	ORD. NO.	DATE	FILE NO.

COUNTY DATUM
TBM FOR SPIKE IN WEST FACE OF POWER POLE
ELEVATION 1943.71
LOCATION 28' EAST OF CENTERLINE OF MATCH ROAD 61' NORTH OF SOUTH PLAT BOUNDARY, WESTWOOD ESTATES #2

SCALE
HORIZONTAL 1"=50'
VERTICAL 1"=10'

DATE
JUNE 1995

DRAWN GG/JFO
CHECKED RL
APPROVED

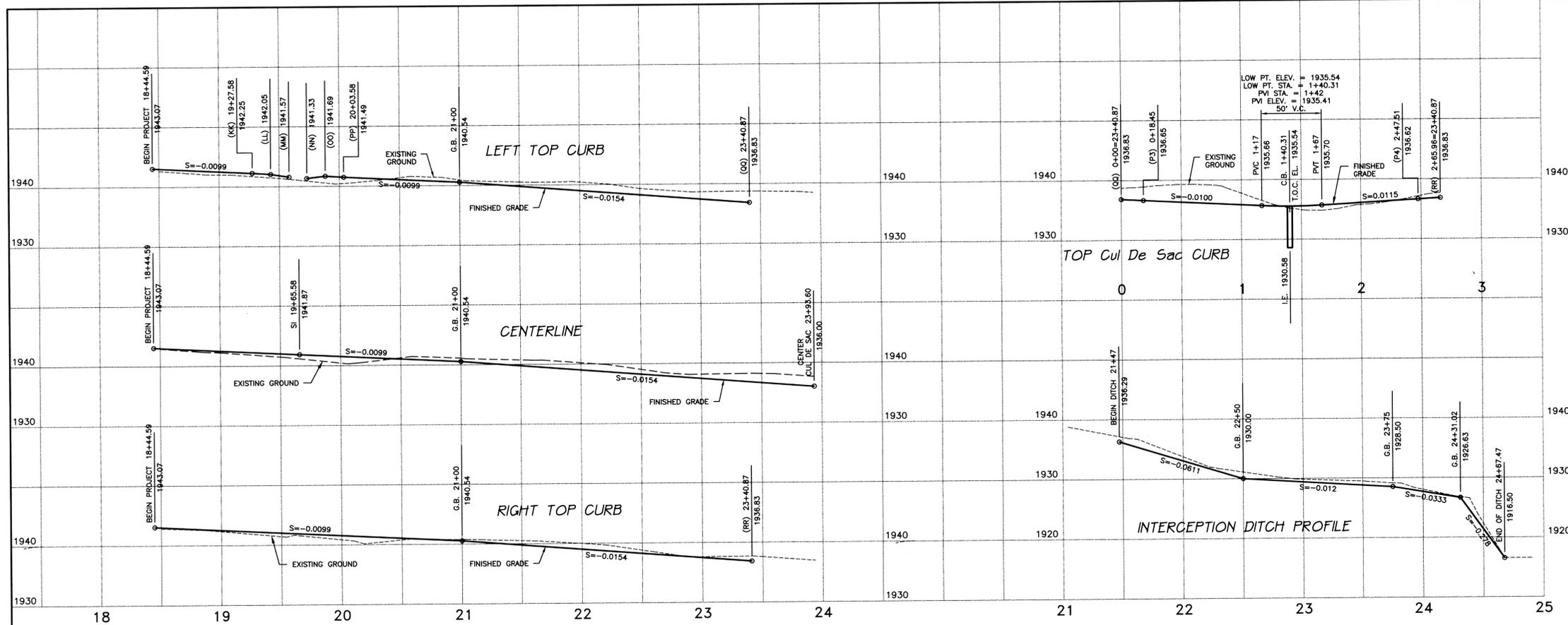
AC ADAMS & CLARK, Inc.
1720 W. Fourth Ave.
Spokane, Wa. 99204-1702
509-747-4600

CAMBRIDGE KNOLL
LIDGERWOOD ST.: STA. 51+21.12 TO 52+80
ASTOR STREET: STA. 0+00 TO 3+12.76

TYPE OF IMPROVEMENT: STREET

PROJECT NUMBER	PLAN NUMBER
94-001	3

CALL BEFORE YOU DIG 456-8000



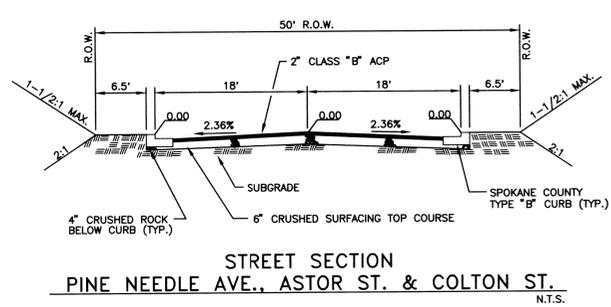
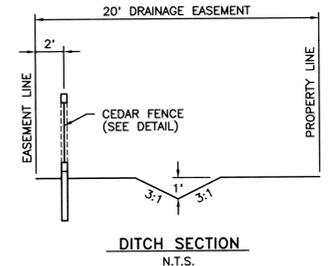
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 - INTERCEPTION DITCH SHALL BE HYDROSEEDED AND FERTILIZED JUST AFTER CONSTRUCTION. PROVIDE SEED MIXTURE AT A RATE OF 90 LBS PER ACRE COMPOSED OF GRASS SPECIES AND PERCENTAGES BY WEIGHTS AS FOLLOWS:
60% INTERMEDIATE WHEAT
40% SHEEP FESCUE
FERTILIZE WITH 16-16-16 TIME RELEASE COMPOSITION AT A RATE OF 300 LBS PER ACRE, SEE EROSION CONTROL TABLE.
 - GEOTECH FABRIC IN THE INTERCEPTION DITCH SHALL BE BON TERRA PRODUCT C2 OR APPROVED EQUAL, SEE EROSION CONTROL TABLE.
 - RIP-RAP WITH QUARRY SPALLS ONE (1) FOOT THICK, GRADATION PER W.S.D.O.T., SEE EROSION CONTROL TABLE.
 - THE FENCE AND INTERCEPTION DITCH ARE TO BE CONSTRUCTED CONCURRENTLY WITH THE EAST RETENTION POND.
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CURB RETURN DATA

CURB RETURN	RADIUS	LENGTH	TANGENT	DELTA
C1	19.50'	30.63'	19.50'	90°00'00"
C4	19.50'	18.45'	9.98'	54°13'27"
C5	45.50'	229.06'	32.79'	288°26'54"

NOTE: DATA IS TO THE BACK OF CURB

NOTE:
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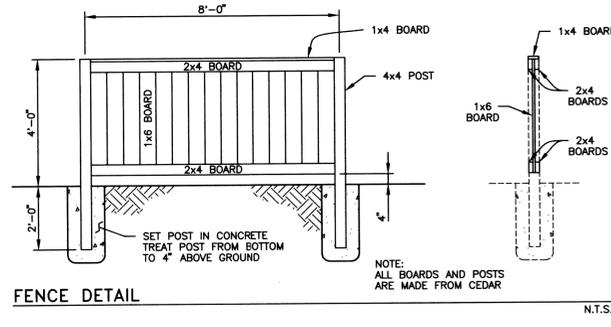
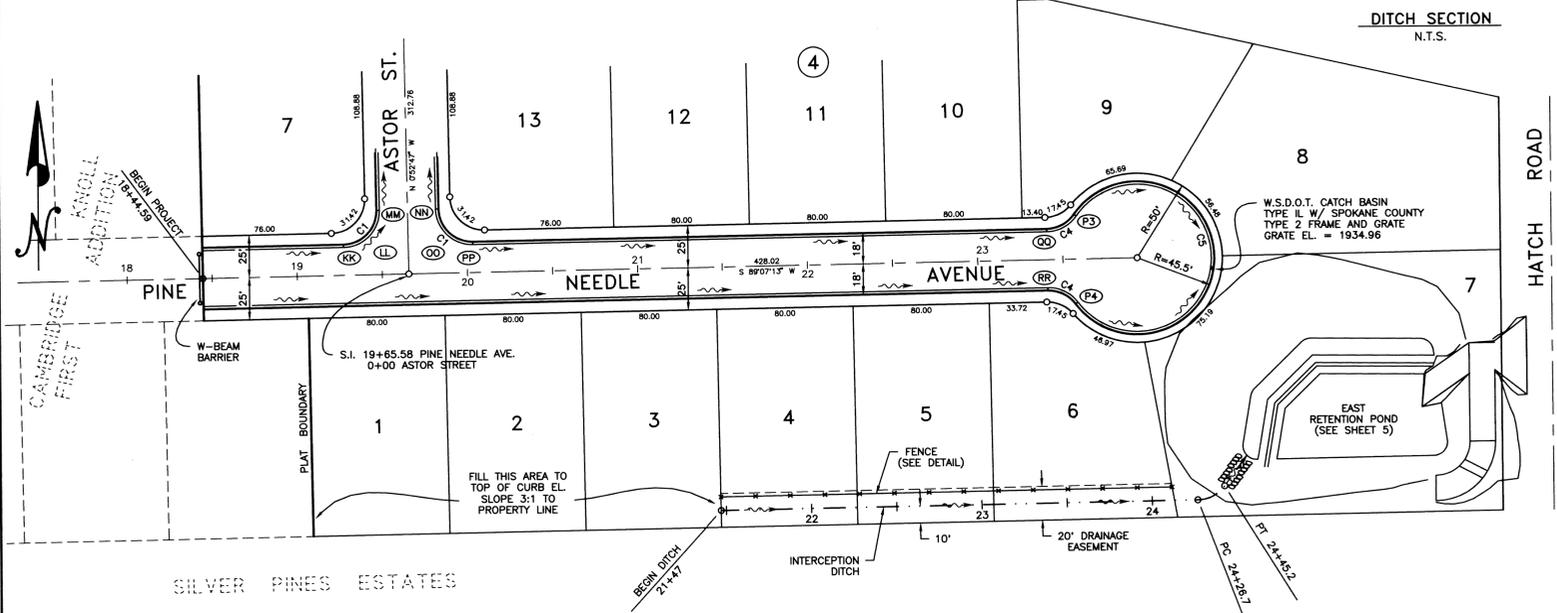


CURB TABLE

LABEL	TYPE	STATION
KK	BCR	19+27.58
LL	MCR	
MM	ECR	0+38.00
NN	BCR	0+38.00
OO	MCR	
PP	ECR	20+03.58
QQ	BCR	23+40.87
RR	BCR	23+40.87

EROSION CONTROL TABLE

STA.	EROSION CONTROL TYPE
21+47	GEOTECH FABRIC
22+50	HYDROSEED
23+75	HYDROSEED
24+31	HYDROSEED
POND BOTTOM	RIP RAP



APPROVED FOR
SPOKANE COUNTY ENG.
BY *Leann Francis, P.E.*
6/13/95
P-1696
PERMIT REQUIRED!
NOTIFY THE PERMIT ENGINEER
456-3600
24 HRS. PRIOR TO CONSTRUCTION



Paul H. Simpson
DEVELOPER'S APPROVAL

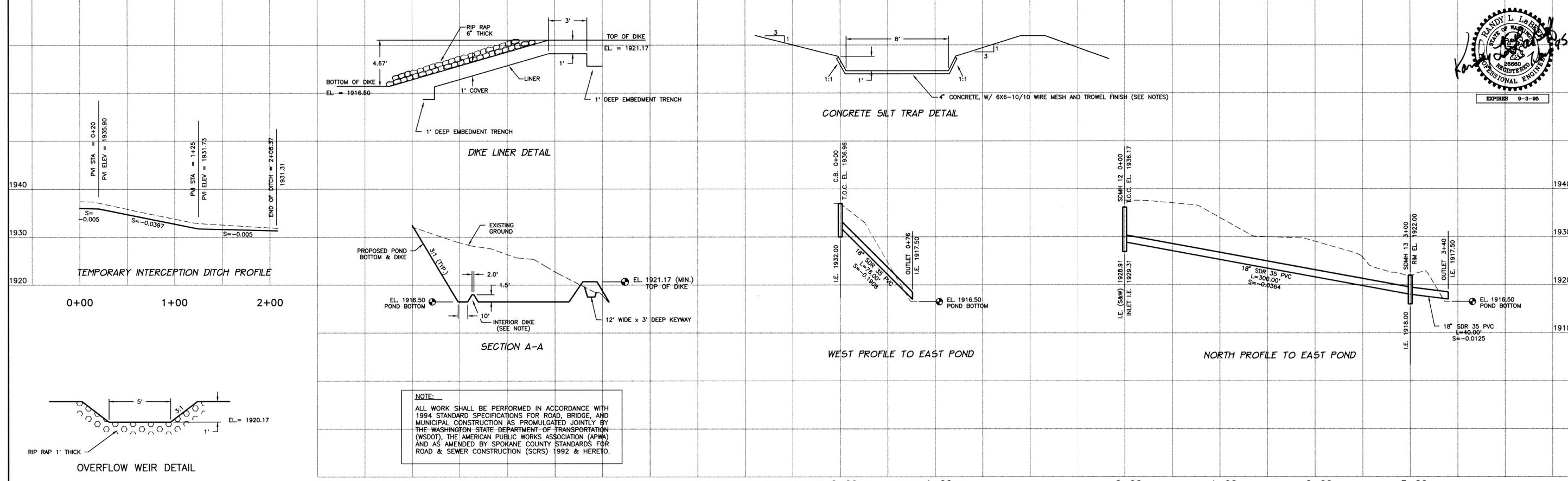
BY	REVISIONS	DATE	PROJ.	FROM	AS BUILT	TO	ACCEPT	GRADE ORDINANCE LIST				COUNTY DATUM	SCALE	DATE	DRAWN	CHECKED	APPROVED	
								FROM	TO	ORD. NO.	DATE	FILE NO.	TBM	HORIZONTAL				VERTICAL

AC ADAMS & CLARK, Inc.
1720 W. Fourth Ave.
Spokane, Wa. 99204-1702
509-747-4600

CAMBRIDGE KNOLL
PINE NEEDLE AVENUE
STA. 18+44.59 TO CUL-DE-SAC

TYPE OF IMPROVEMENT: STREET	
PROJECT NUMBER	PLAN NUMBER
94-001	4

CALL BEFORE YOU DIG 456-8000



NOTE:
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- NOTES:**
- LINER IN DIKE SHALL 20 MIL PVC (OR APPROVED EQUAL) AND BE INSTALLED WITH ALL SEAMS GLUED PER THE MANUFACTURER'S RECOMMENDATIONS. SEE DETAIL THIS SHEET.
 - THE SUBGRADE UNDER THE DIKE SHALL BE STRIPPED OF ALL ORGANIC MATTER AND TOP SOIL. THE TOP 1 FOOT SHALL BE SCARIFIED AND COMPACTED TO 95% OF MAX. DENSITY (ASTM D1557).
 - FENCE AROUND POND SHALL BE CHAIN LINK FENCE TYPE 3, REFER TO WSDOT STANDARD PLANS NO.'S L-2 AND L-3. INSTALL 20' WIDE GATE CENTERED ON ACCESS RD.
 - INSTALL 6" OF CSTC ON TOP OF DIKES AND ACCESS ROAD OF THE POND. THE ACCESS ROAD SHALL BE 12' WIDE AND TO WITHIN 8' OF DRYWELLS.
 - DIKES OF THE RETENTION PONDS SHALL BE CONSTRUCTED OF THE SITE SOILS CONSISTING OF SILTY SAND. EMBANKMENT CONSTRUCTION SHALL BE IN ACCORDANCE TO SECTION Z-03.3(14) COMPACTION METHOD C OF THE WSDOT 1994 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION.
 - MATERIAL FOR INTERIOR DIKE SHALL BE 1/2 INCH MINUS GRAVEL WITH A MAX. OF 5% PASSING U.S. SIEVE NO. 200 AS MEASURED BY WEIGHT.
 - COVER ON LINER SHALL BE 1" MINUS.
 - SLOPE ONE SIDE OF CONCRETE SILT TRAP 5:1 FOR EQUIPMENT ACCESS. THE CONCRETE SILT TRAP SHALL BE PLACED ON SUBGRADE W/ THE TOP 8" COMPACTED TO 90% OF MAX. DENSITY (ASTM D1557).
 - EACH OF THE DRYWELLS ARE TO BE FIELD TESTED FOR FLOWRATE CAPACITY AFTER THE ON-SITE ROADS ARE PAVED (FOR FULL DEVELOPMENT OF THE SITE), AND AFTER CLEARED AREAS IN AND AROUND THE POND(S) ARE STABILIZED WITH GERMINATED/SODDED GRASSES. THE HEAD FLOW TEST METHOD, AS ADOPTED BY SPOKANE COUNTY, IS TO BE USED IN DETERMINING THE DRYWELL FLOWRATE CAPACITY. IT IS THE RESPONSIBILITY OF THE DEVELOPER TO ARRANGE AND PAY FOR THE TEST(S). THE DEVELOPER SHALL NOTIFY A COUNTY REPRESENTATIVE IN WRITING AT LEAST TWO WORKING DAYS PRIOR TO SCHEDULED TESTING SO THAT A COUNTY REPRESENTATIVE CAN WITNESS THE TEST(S). THE DRYWELL FLOW CAPACITY SHALL BE CALCULATED AS FOLLOWS:

$$\text{FLOW CAPACITY, CFS} = (\text{FIELD TESTED CAPACITY}) / 2$$

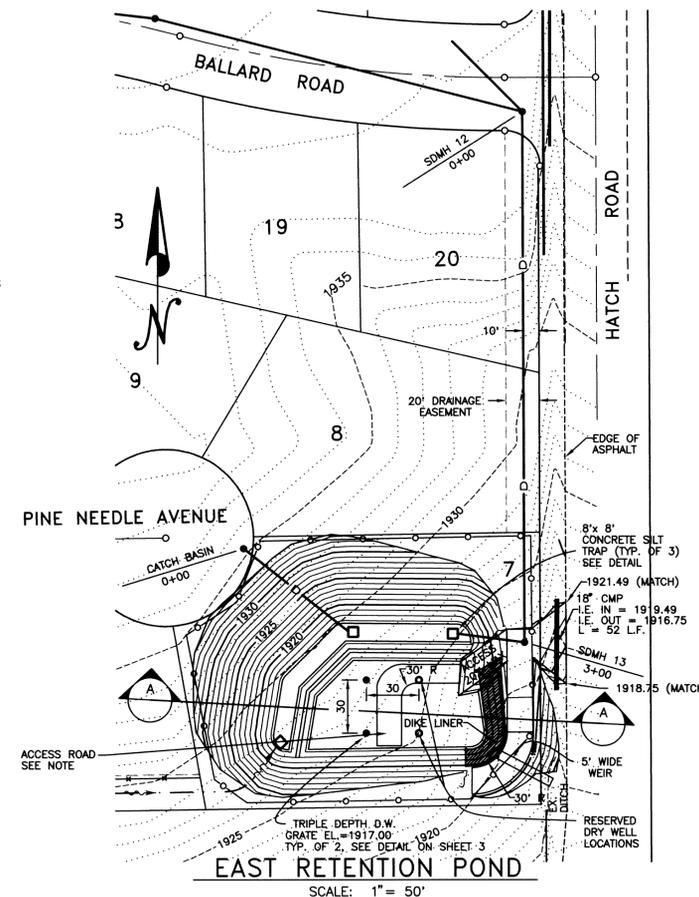
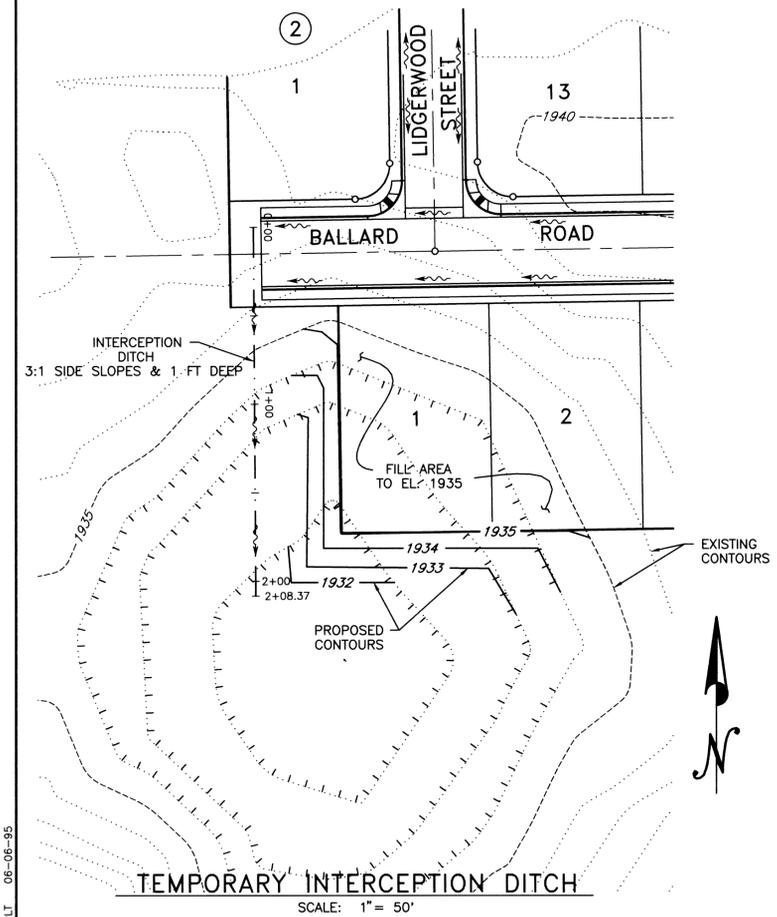
$$\text{FLOW CAPACITY} > 0.25 \text{ CFS (I.E. DESIGN CAPACITY)}$$
 THIS EQUATION GIVES A FACTOR OF SAFETY = 2, ITS PURPOSE IS TO TAKE INTO CONSIDERATION THE FACT THAT DRYWELL CAPACITIES REDUCE OVER TIME.



- LOCATIONS OF EXISTING UTILITIES SHOWN IN PLANS ARE APPROXIMATE THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
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EAST RETENTION POND COORDINATES

PT. No.	NORTH	EAST	DESCRIPTION
1	7089.55	4814.04	SW RAD. PT OF POND BOTTOM
2	7117.94	4818.77	W RAD. PT OF POND BOTTOM
3	7144.98	4846.25	NW RAD. PT OF POND BOTTOM
4	7144.41	4910.28	NE RAD. PT OF POND BOTTOM
5	7091.15	4918.21	SW RAD. PT OF POND BOTTOM
6	7111.91	4911.46	TOE OF ACCESS RD
7	7131.57	4913.43	TOE OF ACCESS RD
8	7148.20	4848.95	END OF PIPE
9	7147.00	4911.00	END OF PIPE
10	7142.09	4949.28	SDMH #13
11	7120.83	4858.99	DRY WELL
12	7090.83	4858.99	DRY WELL
13	7090.83	4888.99	RESERVED DRY WELL
14	7120.83	4888.99	RESERVED DRY WELL
15	7051.49	4790.94	FENCE CORNER
16	7064.56	4772.38	FENCE CORNER
17	7146.34	4756.36	FENCE CORNER
18	7164.89	4785.04	FENCE CORNER
19	7198.45	4798.53	FENCE CORNER
20	7202.40	4832.88	FENCE CORNER
21	7090.84	4953.88	FENCE CORNER
22	7053.60	4918.30	FENCE CORNER



Randy L. Lebeck
 DEVELOPER'S APPROVAL

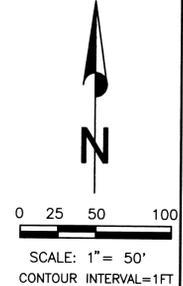
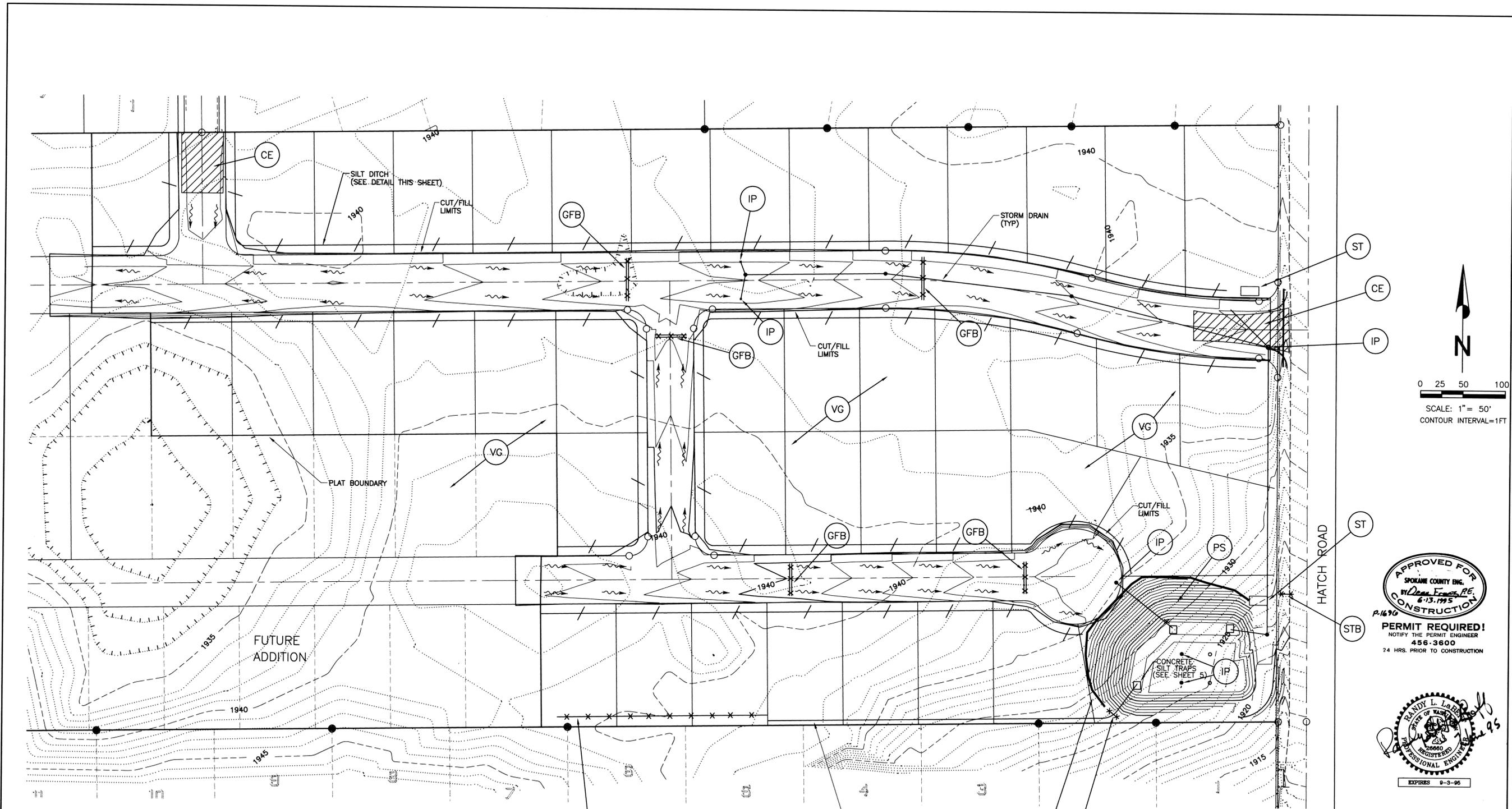
GRADE ORDINANCE LIST					COUNTY DATUM		SCALE	DATE
FROM	TO	ORD. NO.	DATE	FILE NO.	TBM	NO. SPOKE IN WEST FACE OF POWER POLE	HORIZONTAL AS NOTED	JUNE 1995
					ELEVATION	1943.71	VERTICAL	1"=10'
					LOCATION	28' EAST OF CENTERLINE OF HATCH ROAD, 61' NORTH OF SOUTH PLAT BOUNDARY, WESTWOOD ESTATES #2		

AC ADAMS & CLARK, Inc.
 1720 W. Fourth Ave.
 Spokane, Wa. 99204-1702
 509-747-4600

CAMBRIDGE KNOLL EAST RETENTION POND

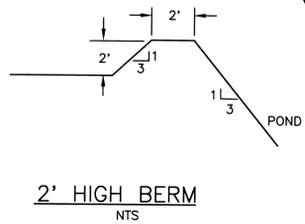
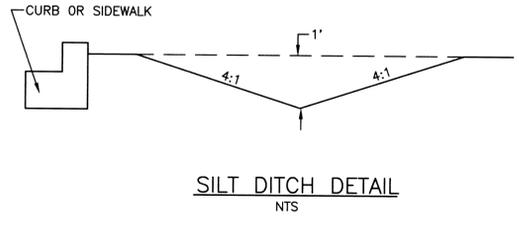
TYPE OF IMPROVEMENT:	DRAINAGE
PROJECT NUMBER	PLAN NUMBER
94-001	5

CALL BEFORE YOU DIG 456-8000



APPROVED FOR
 SPOKANE COUNTY ENG.
 BY *Dean Evans, P.E.*
 6-13-1995
 P-1696
PERMIT REQUIRED!
 NOTIFY THE PERMIT ENGINEER
 456-3600
 24 HRS. PRIOR TO CONSTRUCTION

RANDY L. LARSEN
 STATE OF WASHINGTON
 20660
 REGISTERED
 PROFESSIONAL ENGINEER
 EXPIRES 9-3-96



LEGEND	
--- (dashed line)	EXISTING CONTOURS
... (dotted line)	EXISTING CONTOURS
— (solid line)	PROPOSED CONTOURS
— (solid line)	STREET CENTERLINE
- - - (long-dashed line)	CUT/FILL LIMITS
~ (wavy line)	DIRECTION OF FLOW
— (solid line)	SILT DITCH

Don H. Simpson
 DEVELOPER'S APPROVAL

BY	REVISIONS	DATE	PROJ.	FROM	AS BUILT	TO	ACCEPT

BENCH MARK DATUM	SCALE	DATE
TBM RR SPIKE IN WEST FACE OF POWER POLE	HORIZONTAL 1" = 50'	6/95
ELEVATION 1943.71	VERTICAL 1" = NA	CHECKED RL
LOCATION 20' EAST OF CENTERLINE OF HATCH ROAD 61' NORTH OF SOUTH PLAT BOUNDARY, WESTWOOD ESTATES #2	APPROVED	

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 1720 W. Fourth Ave.
 Spokane, Wa. 99204-1702
 509-747-4600

CAMBRIDGE KNOLL ADDITION
 TEMPORARY EROSION CONTROL PLAN

CALL BEFORE YOU DIG 456-8000	
TYPE OF IMPROVEMENT:	EROSION
PROJECT NUMBER	PLAN NUMBER
	11

1696

GENERAL SPECIFICATIONS

- EXTREME CARE SHALL BE USED TO PREVENT SEDIMENT FROM ENTERING THE DRYWELLS.
- ALL WORK AND MATERIALS SHALL BE IN CONFORMANCE WITH THE "SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION 1992", AND AS AMENDED.
- LOCATIONS OF EXISTING UTILITIES SHOWN IN PLANS ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES, ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.
- THE CONTRACTOR IS REQUIRED TO HAVE A COMPLETE SET OF THE APPROVED ROAD AND DRAINAGE PLANS ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
- IF THE CONTRACTOR DISCOVERS ANY DISCREPANCIES BETWEEN THE PLANS AND EXISTING CONDITIONS ENCOUNTERED, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE DESIGN ENGINEER AND THE SPOKANE COUNTY ENGINEER'S OFFICE.
- FOR CONSTRUCTION OF DRYWELLS, INSTALL FILTER FABRIC (AMOCO 4545 OR APPROVED EQUIVALENT) BETWEEN THE DRYWELL BARREL AND THE WASHED DRAINROCK, AND BETWEEN THE WASHED DRAINROCK AND THE NATIVE SOILS.
- PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG.
- THE EROSION/SEDIMENTATION CONTROL MEASURES SHOWN ARE THE MINIMUM REQUIREMENTS FOR THE ANTICIPATED SITE CONDITIONS. THE CONTRACTOR SHALL INSPECT AND MAINTAIN THESE ESC MEASURES DAILY, AND SHALL MAINTAIN AND UPGRADE THESE MEASURES AS NECESSARY TO PREVENT SEDIMENT-LADEN WATER FROM EITHER FLOWING OFF THE SITE, OR INTO NEW/EXISTING STORM DRAINAGE FACILITIES, SUCH AS DRYWELLS, CULVERTS, OR STORM SEWERS.
- THE CONTRACTOR/DEVELOPER IS RESPONSIBLE FOR INSTALLING ROCK CONSTRUCTION ENTRIES AT ANY ALL LOCATIONS USED TO ENTER OR EXIT THE PROJECT SITE.
- EROSION CONTROL MEASURES ARE TO BE IMPLEMENTED PRIOR TO ANY OTHER SITE WORK, AND TO REMAIN IN PLACE UNTIL ROAD AND HOUSE CONSTRUCTION IS COMPLETE.

STRAW BALE DETAILS

SYMBOL: ***

DEFINITION:

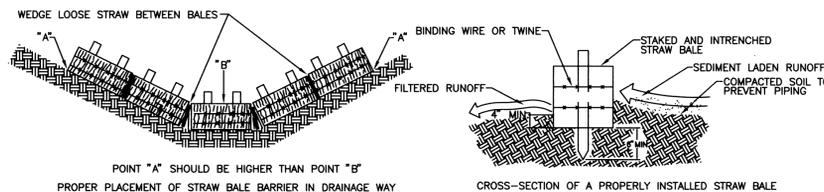
A TEMPORARY SEDIMENT BARRIER CONSISTING OF A ROW OF ENTRENCHED AND ANCHORED STRAW BALES.

PURPOSE:

- TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT FROM DISTURBED AREAS OF LIMITED EXTENT TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- TO DECREASE THE VELOCITY OF SHEET FLOWS AND LOW TO MODERATE LEVEL CHANNEL FLOWS.

MAINTENANCE:

- CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BALES, END RUNS, AND UNDERCUTTING BENEATH BALES.
- SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RUNOFF-PRODUCING RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER.



ROCK CONSTRUCTION ENTRY

SYMBOL: ||

DEFINITION:

A TEMPORARY STONE-STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON A CONSTRUCTION SITE.

PURPOSE:

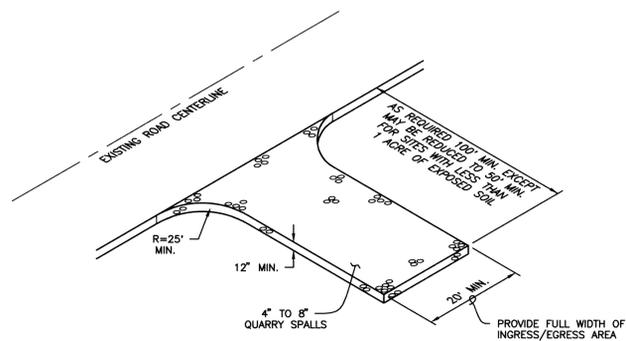
TO REDUCE THE AMOUNT OF MUD, DIRT, ROCKS, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF BY CONSTRUCTING A STABILIZED PAD OF ROCK SPALLS AT ENTRANCES TO CONSTRUCTION SITES AND WASHING OF TIRES DURING EGRESS.

CONDITIONS WHERE PRACTICE APPLIES:

- WHENEVER TRAFFIC WILL BE LEAVING A CONSTRUCTION SITE AND MOVING DIRECTLY ONTO A PUBLIC ROAD OR OTHER PAVED AREAS.

MAINTENANCE:

- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OF FLOW OF MUD ONTO PUBLIC RIGHTS-OF-WAY. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEANOUT OF ANY STRUCTURES USED TO TRAP SEDIMENT. ALL MATERIALS SPILLED, DROPPED, WASHED, OR TRACKED FROM VEHICLES ONTO ROADWAYS OR INTO STORM DRAINS MUST BE REMOVED IMMEDIATELY.



PRESERVE NATURAL VEGETATION

SYMBOL: VEG

DEFINITION:

MINIMIZING EXPOSED SOILS AND CONSEQUENT EROSION BY CLEARING ONLY WHERE CONSTRUCTION WILL OCCUR.

PURPOSE:

TO REDUCE EROSION BY PRESERVING NATURAL VEGETATION WHEREVER PRACTICABLE.

CONDITIONS WHERE PRACTICE APPLIES:

- NATURAL VEGETATION SHOULD BE PRESERVED ON STEEP SLOPES, NEAR PERENNIAL AND INTERMITTENT WATER COURSES OR SWALES, AND ON BUILDING SITES IN WOODED AREAS.

GRAVEL FILTER BERM

SYMBOL: X X X X

DEFINITION:

A GRAVEL BERM CONSTRUCTED ON RIGHTS-OF-WAY OR TRAFFIC AREAS WITHIN A CONSTRUCTION SITE.

PURPOSE:

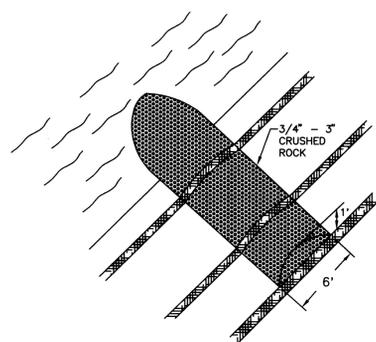
TO RETAIN SEDIMENT FROM TRAFFIC AREAS BY USING A FILTER BERM OF GRAVEL OR CRUSHED ROCK.

CONDITIONS WHERE PRACTICE APPLIES:

- WHERE A TEMPORARY MEASURE IS NEEDED TO RETAIN SEDIMENT FROM RIGHTS-OF-WAY OR IN TRAFFIC AREAS ON CONSTRUCTION SITES.

MAINTENANCE:

- REGULAR INSPECTION IS REQUIRED; SEDIMENT SHALL BE REMOVED AND FILTER MATERIAL REPLACED AS NEEDED.



FILTER FENCE

SYMBOL: X X X X

DEFINITION:

A TEMPORARY SEDIMENT BARRIER CONSISTING OF A FILTER FABRIC STRETCHED ACROSS AND ATTACHED TO SUPPORTING POSTS AND ENTRENCHED. THE FILTER FENCE IS CONSTRUCTED OF STAKES AND SYNTHETIC FILTER FABRIC WITH A RIGID WIRE FENCE BACKING WHERE NECESSARY FOR SUPPORT.

PURPOSE:

- TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SEDIMENT UNDER SHEET FLOW CONDITIONS FROM DISTURBED AREAS DURING CONSTRUCTION OPERATIONS IN ORDER TO PREVENT SEDIMENT FROM LEAVING THE SITE.
- TO DECREASE THE VELOCITY OF SHEET FLOWS.

THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID USE OF JOINTS. WHEN JOINTS ARE NECESSARY, FILTER CLOTH SHALL BE SPICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.

POSTS SHALL BE SPACED A MAXIMUM OF 6 FEET APART AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 30 INCHES (WHERE PHYSICALLY POSSIBLE).

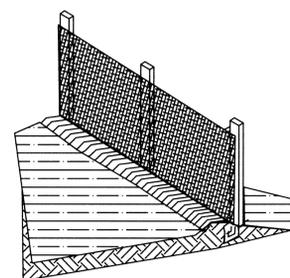
A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POST AND UP SLOPE FROM THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOUR. WHEN SLIT FILM FILTER FABRIC IS USED, WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UP-SLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG. THE WIRES OR HOG RIGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 4 INCHES AND SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE.

SLIT FILM FILTER FABRIC SHALL BE WIRED TO THE FENCE, AND 20 INCHES OF THE FABRIC SHALL EXTEND INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES ABOVE THE ORIGINAL GROUND SURFACE. FILTER FABRIC SHALL NOT BE STAPLED TO EXISTING TREES. OTHER TYPES OF FABRIC MAY BE STAPLED TO THE FENCE.

WHEN EXTRA-STRENGTH OR MONOFILAMENT FABRIC AND CLOSER POST SPACING ARE USED, THE WIRE MESH SUPPORT FENCE MAY BE ELIMINATED. IN SUCH A CASE, THE FILTER FABRIC IS STAPLED OR WIRED DIRECTLY TO THE POST. EXTRA CARE SHOULD BE USED WHEN JOINING OR OVERLAPPING THESE STIFFER FABRICS. APPARENT OPENING SIZE OF FILTER FABRIC SHALL BE 70.

MAINTENANCE:

- INSPECT IMMEDIATELY AFTER EACH RAINFALL, AND AT LEAST DAILY DURING PROLONGED RAINFALL. REPAIR AS NECESSARY.
- SEDIMENT MUST BE REMOVED WHEN IT REACHES APPROXIMATELY ONE THIRD THE HEIGHT OF THE FENCE, ESPECIALLY IF HEAVY RAINS ARE EXPECTED.



FF



DEVELOPER'S APPROVAL

PERMANENT SEEDING

SYMBOL: PS

DEFINITION:

THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS.

PURPOSE:

TO ESTABLISH PERMANENT VEGETATION (SUCH AS GRASSES, LEGUMES AND TREES AND SHRUBS) AS RAPIDLY AS POSSIBLE TO PREVENT SOIL EROSION BY WIND OR WATER, AND TO IMPROVE WILDLIFE HABITAT AND SITE AESTHETICS.

CONDITIONS WHERE PRACTICE APPLIES:

- GRADED, FINAL GRADED OR CLEARED AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO ESTABLISH THE SOIL.
- AREAS WHICH WILL NOT BE BROUGHT TO FINAL GRADE FOR A YEAR OR MORE.
- VEGETATION-LINED CHANNELS.
- RETENTION OR DETENTION PONDS AS REQUIRED.

PROVIDE FRESH, CLEAN NEW CROP SEED COMPLYING WITH TOLERANCE FOR PURITY AND GERMINATION ESTABLISHED BY OFFICIAL SEED ANALYSTS OF NORTH AMERICA. PROVIDE SEED MIXTURE COMPOSED OF GRASS SPECIES AND PERCENTAGES AS FOLLOWS:

- 60 PERCENT INTERMEDIATE WHEAT
- 40 PERCENT COVAR SHEEP/FESCUE

PROVIDE MIXTURE COMPOSED OF GRASS SEED AND FERTILIZER IN PERCENTAGES AS FOLLOWS:

- GRASS SEED MIXTURE: 90 LBS. PER ACRE
- FERTILIZER: 16:16:16 TIMED RELEASE COMPOSITION, 300 LBS. PER ACRE

ALL SEEDING OF SLOPES SHALL BE DONE IN ACCORDANCE WITH W.S.D.O.T. STANDARD SPECIFICATIONS.

PERMANENT SEEDING SHALL OCCUR BETWEEN THE DATES OF AUGUST 15 TO NOVEMBER 15. ANY AREAS THAT ARE NOT SEEDING AND ARE EXPOSED FOR MORE THAN 30 DAYS SHALL HAVE A STRAW MULCH (1.2 TONS/ACRE) APPLIED. MULCH SHALL BE ANCHORED INTO THE SOIL BY DISKING OR OTHER METHODS AS APPROVED BY THE SPOKANE COUNTY ROAD DEPARTMENT. MULCHING OPERATIONS SHALL BE PER W.S.D.O.T. SPECIFICATIONS SECTION 6-01.3(5).

TEMPORARY SEDIMENT TRAP

SYMBOL: □

DEFINITION:

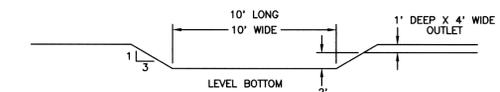
A TEMPORARY BASIN WITH AN OUTLET FORMED BY EXCAVATION AND/OR CONSTRUCTING AN EARTHAN EMBANKMENT.

PURPOSE:

TO COLLECT AND STORE SEDIMENT FROM SITES CLEARED AND OR GRADED DURING CONSTRUCTION.

MAINTENANCE:

- SEDIMENT SHOULD BE REMOVED FROM THE TRAP WHEN IT REACHES APPROXIMATELY 1 FOOT IN DEPTH. REGULAR INSPECTION SHOULD BE DONE AFTER EACH LARGE RUNOFF-PRODUCING STORM.



STORM DRAIN INLET PROTECTION

IP

DEFINITION:

A SEDIMENT FILTER OR AN EXCAVATED IMPOUNDING AREA AROUND A STORM DRAIN, DROP INLET, OR CURB INLET.

PURPOSE:

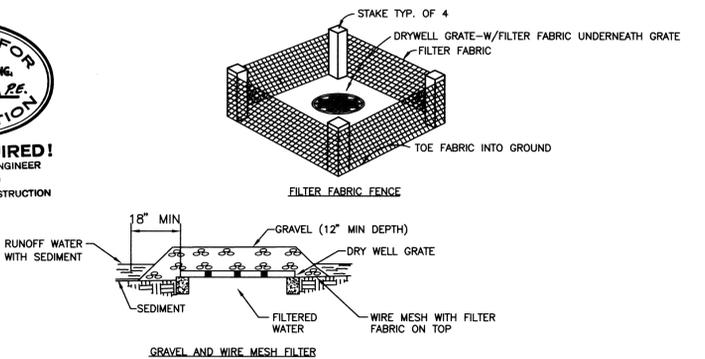
TO PREVENT SEDIMENT FROM ENTERING STORM DRAINAGE SYSTEMS PRIOR TO PERMANENT STABILIZATION OF THE DISTURBED AREA.

INSTALLATION PROCEDURE FOR FILTER FABRIC FENCE:

- PLACE 2 INCH BY 2 INCH WOODEN POSTS AROUND THE PERIMETER OF THE INLET A MAXIMUM OF 3 FEET APART AND DRIVE THEM AT LEAST 8 INCHES INTO THE GROUND. THE STAKES MUST BE AT LEAST 3 FEET LONG.
- EXCAVATE A TRENCH APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP AROUND THE OUTSIDE PERIMETER OF THE STAKES.
- STAPLE THE FILTER FABRIC TO WOODEN STAKES SO THAT 32 INCHES OF THE FABRIC EXTENDS OUT AND CAN BE FORMED INTO THE TRENCH. USE HEAVY-DUTY WIRE STAPLES AT LEAST 1/2 INCH IN LENGTH.
- BACKFILL THE TRENCH WITH 3/4 INCH OR LESS WASHED GRAVEL ALL THE WAY AROUND.
- SLIT FENCE INLET BARRIER SHALL BE CONSTRUCTED ON ALL DRYWELL INLETS AT THE TIME OF THEIR CONSTRUCTION. APPARENT OPENING SIZE OF FILTER FABRIC SHALL BE 70.

INSTALLATION PROCEDURE FOR GRAVEL AND WIRE MESH FILTER:

- PLACE WIRE MESH OVER THE DROP INLET SO THAT THE WIRE EXTENDS A MINIMUM OF 1 FOOT BEYOND EACH SIDE OF THE INLET STRUCTURE. USE HARDWARE CLOTH OR COMPARABLE WIRE MESH WITH 1/2 INCH OPENINGS. IF MORE THAN ONE STRIP OF MESH IS NECESSARY, OVERLAP THE STRIPS. PLACE FILTER FABRIC OVER WIRE MESH.
- EXTEND THE FILTER FENCE/WIRE MESH BEYOND THE INLET OPENING AT LEAST 18 INCHES ON ALL SIDES. PLACE 3/4 INCH TO 3-INCH GRAVEL OVER THE FILTER FABRIC/WIRE MESH. THE DEPTH OF THE GRAVEL SHOULD BE AT LEAST 12 INCHES.



BY	REVISIONS	DATE	PROJ.	FROM	AS BUILT	TO	ACCEPT

BENCH MARK DATUM	SCALE	DATE	
TBM	HORIZONTAL 1" = NA	06/95	DRAWN BH
ELEVATION	VERTICAL 1" = NA		CHECKED RL
LOCATION			APPROVED

AC ADAMS & CLARK, Inc.
1720 W. Fourth Ave.
Spokane, Wa. 99204-1702
509-747-4600

CAMBRIDGE KNOLL ADDITION
TEMPORARY EROSION CONTROL NOTES

CALL BEFORE YOU DIG 456-8000	
TYPE OF IMPROVEMENT:	EROSION
PROJECT NUMBER	PLAN NUMBER
	12