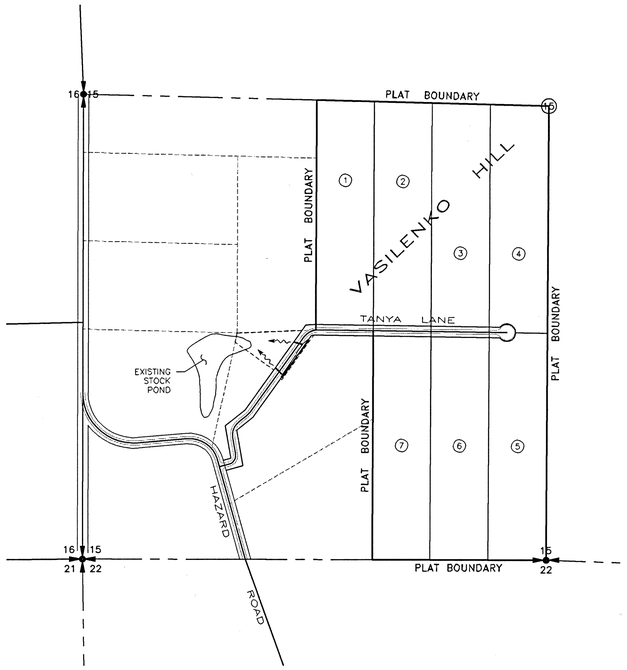
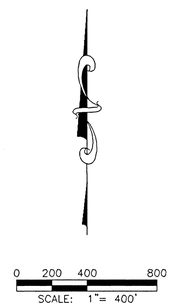
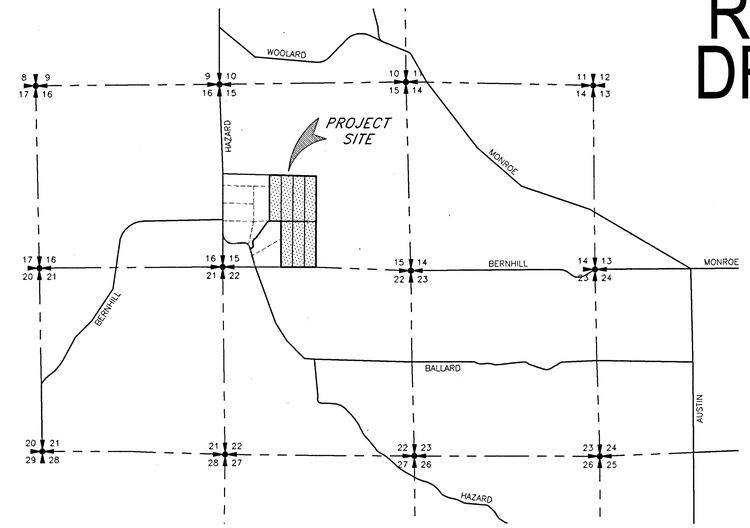
RECORD DRAWING



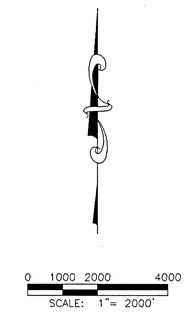
PROJECT MAP

SECTION 15, TOWNSHIP 27 NORTH, RANGE 42 EAST





VICINITY MAP



SPOKANE COUNTY ENGINEERS OFFICE
OFFICIAL PUBLIC DOCUMENT
ORIGINAL
"AS-BUILTS"
CERTIFIED RECORD DRAWINGS
PROJECT #: P1877
DATE ACCEPTED: 5/27/04

ENGINEER'S STATEMENT:

THE DESIGN IMPROVEMENTS SHOWN IN THIS SET OF PLANS AND CALCULATIONS CONFORM TO THE APPLICABLE EDITIONS OF THE SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION AND THE SPOKANE COUNTY GUIDELINES FOR STORMWATER MANAGEMENT. ALL DESIGN DEVIATIONS HAVE BEEN APPROVED BY THE SPOKANE COUNTY ENGINEER. I APPROVE THESE PLANS FOR CONSTRUCTION.

EROSION & SEDIMENT CONTROL NOTES:

1) EROSION/SEDIMENT CONTROL (ESC) HAS BEEN REQUIRED FOR THIS PROJECT. IMPLEMENTATION OF THE ESC PLAN, CONSTRUCTION, MAINTENANCE, AND UPGRADING OF THE ESC FACILITIES ARE THE RESPONSIBILITY OF THE DEVELOPER/CONTRACTOR 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.

2) THE CONTRACTOR SHALL MAINTAIN THE ESC FACILITIES DURING WET WEATHER CONDITIONS TO ASSURE THAT THE FACILITIES ARE WORKING AS PLANNED AND THAT EROSION OF SOILS IS MINIMIZED. THE CONTRACTOR SHALL USE MEASURES AS NECESSARY DURING WET WEATHER CONDITIONS TO MINIMIZE TRACKING OF SOILS ONTO EXISTING STREETS. THE ESC 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.

3) THE EROSION CONTROL PLANS AND SPECIFICATIONS ARE SCHEMATIC AND ARE NOT INTENDED TO DEPICT ALL DETAILS OF THE WORK REQUIRED. THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH THE ACTUAL SITE CONDITIONS AND FACTORS WHICH MAY CONTRIBUTE TO SOIL EROSION. THE CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL MEASURES WHICH ARE NECESSARY TO ALLEVIATE THE POTENTIAL FOR SOIL EROSION.

4) THE CONTRACTOR SHALL BE RESPONSIBLE TO FAMILIARIZE HIMSELF WITH THE ACTUAL SITE CONDITIONS AND FACTORS WHICH MAY CONTRIBUTE TO SOIL EROSION. THE CONTRACTOR SHALL IMPLEMENT ANY ADDITIONAL MEASURES WHICH ARE NECESSARY TO ALLEVIATE THE POTENTIAL FOR SOIL EROSION.

5) CONTRACTOR IS RESPONSIBLE FOR SUPPRESSION OF DUST IN CONFORMANCE WITH SCAPCA REGULATIONS.

6) CONTRACTOR TO TAKE NECESSARY MEASURES TO AVOID TRACKING DIRT OFF THE SITE. MEASURES MAY INCLUDE CONSTRUCTION OF A TEMPORARY STABILIZED CONSTRUCTION ENTRANCE AND TIREWASH (SEE DETAIL) AND WASHING OF VEHICLES. ALL DIRT TRACKED OFF THE SITE SHALL BE REMOVED BY CONTRACTOR.

CONSTRUCTION NOTES:

1) ALL ITEMS OF CONSTRUCTION SHALL BE COMPLETED IN ACCORDANCE WITH THE 2000 STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AS PROMULGATED JOINTLY BY THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION (WSDOT) AND THE AMERICAN PUBLIC WORKS ASSOCIATION (APWA); THE 1999 SPOKANE COUNTY STANDARDS FOR ROAD AND SEWER CONSTRUCTION; AND ALL AMENDMENTS HERETO.

2) PRIOR TO SITE CONSTRUCTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UNDERGROUND UTILITIES. CALL THE UNDERGROUND UTILITY LOCATION SERVICE AT 456-8000 BEFORE YOU DIG. ANY CONFLICTING UTILITIES SHALL BE RELOCATED PRIOR TO CONSTRUCTION OF ROAD AND DRAINAGE FACILITIES.

3) 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.

4) 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.

SHEET INDEX

1 COVER SHEET

2 TANYA LANE – Road & Drainage Plan – Sta. 0+00 to Sta. 13+50

3 TANYA LANE – Road & Drainage Plan – Sta. 13+50 to Sta. 21+02.95

4 EROSION CONTROL AND DRAINAGE DETAILS

I have reviewed the construction and to my knowledge find it to be in substantial conformance with the approved certified plans and Standard Specifications except as noted.

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
5-13-04
EXPIRES 11/24/05

STI NORTHWEST, INC.

Record Drawing prepared by STI Northwest 4/30/04

DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 10/18/01
SCALE: AS SHOWN

VASILENKO HILL
TANYA LANE
COVER SHEET

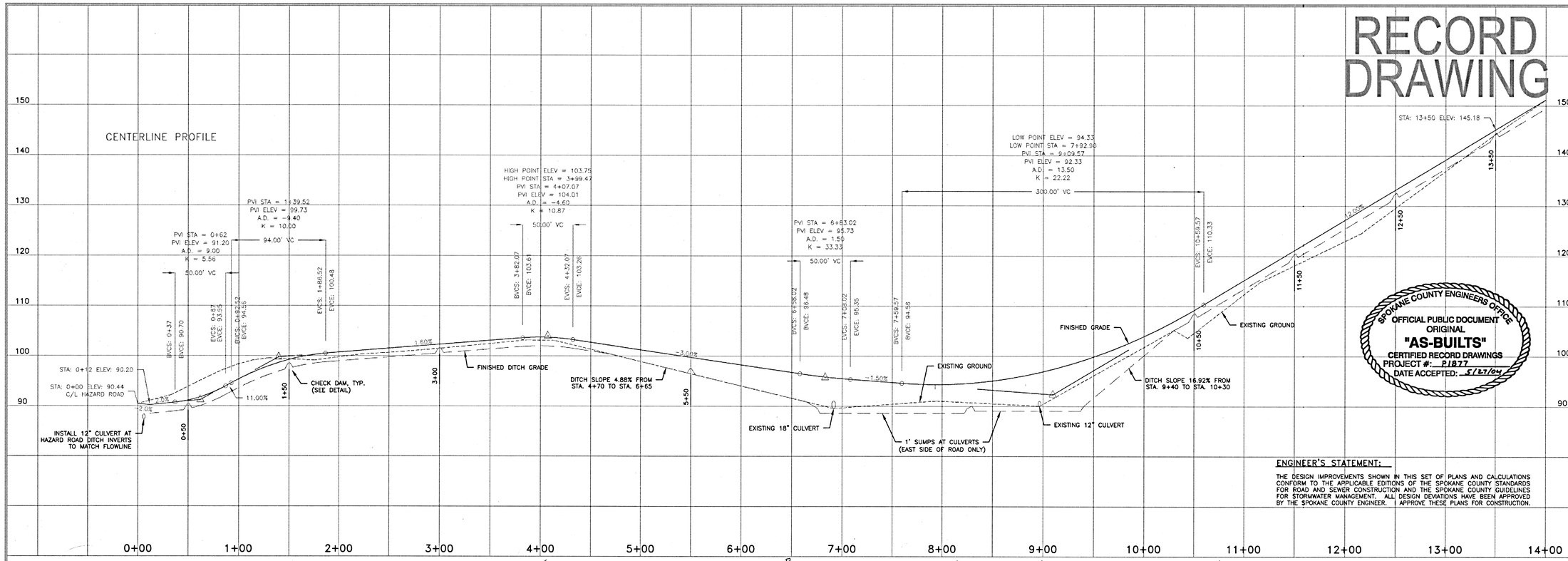
SHEET 1 OF 4

00-043

0043-COV.DWG XREF: 0043BASE.DWG

P 1877 · Eng. As-Builts

RECORD DRAWING



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METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 10/18/01
SCALE: AS SHOWN

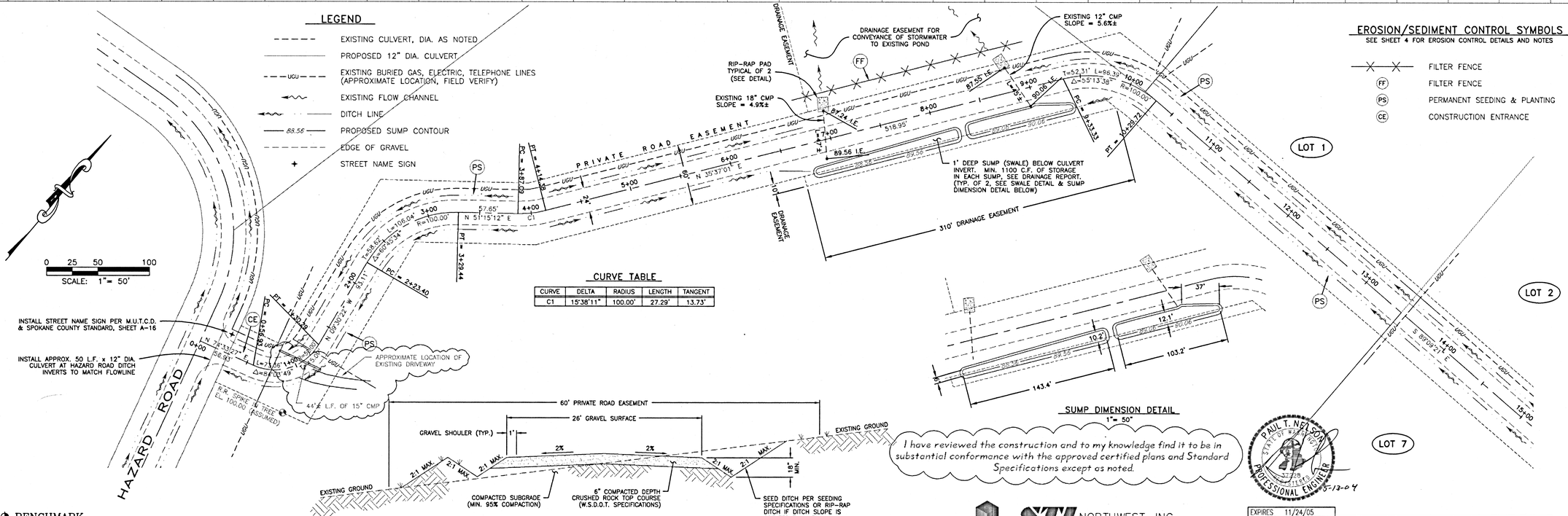
LEGEND

- EXISTING CULVERT, DIA. AS NOTED
- PROPOSED 12" DIA. CULVERT
- UGU — EXISTING BURIED GAS, ELECTRIC, TELEPHONE LINES (APPROXIMATE LOCATION, FIELD VERIFY)
- EXISTING FLOW CHANNEL
- DITCH LINE
- 88.56 — PROPOSED SUMP CONTOUR
- EDGE OF GRAVEL
- STREET NAME SIGN

EROSION/SEDIMENT CONTROL SYMBOLS

SEE SHEET 4 FOR EROSION CONTROL DETAILS AND NOTES

- FILTER FENCE
- FF — FILTER FENCE
- PS — PERMANENT SEEDING & PLANTING
- CE — CONSTRUCTION ENTRANCE



CURVE TABLE

CURVE	DELTA	RADIUS	LENGTH	TANGENT
C1	15°38'11"	100.00'	27.29'	13.73'

TYPICAL ROAD X-SECTION

NOT TO SCALE

BENCHMARK

ELEVATION = 100.00 (ASSUMED)
RAILROAD SPIKE IN TREE 106'± EAST OF HAZARD ROAD & TANYA LANE INTERSECTION

I have reviewed the construction and to my knowledge find it to be in substantial conformance with the approved certified plans and Standard Specifications except as noted.

PAUL T. NELSON — STATE OF WASHINGTON — 37358 — PROFESSIONAL ENGINEER — 5-13-04

EXPIRES 11/24/05

DEVELOPER'S APPROVAL DATE

STI NORTHWEST, INC.

Record Drawing prepared by STI Northwest 4/30/04

CALL BEFORE YOU DIG 456-8000

VASILENKO HILL
TANYA LANE
ROAD AND DRAINAGE PLAN

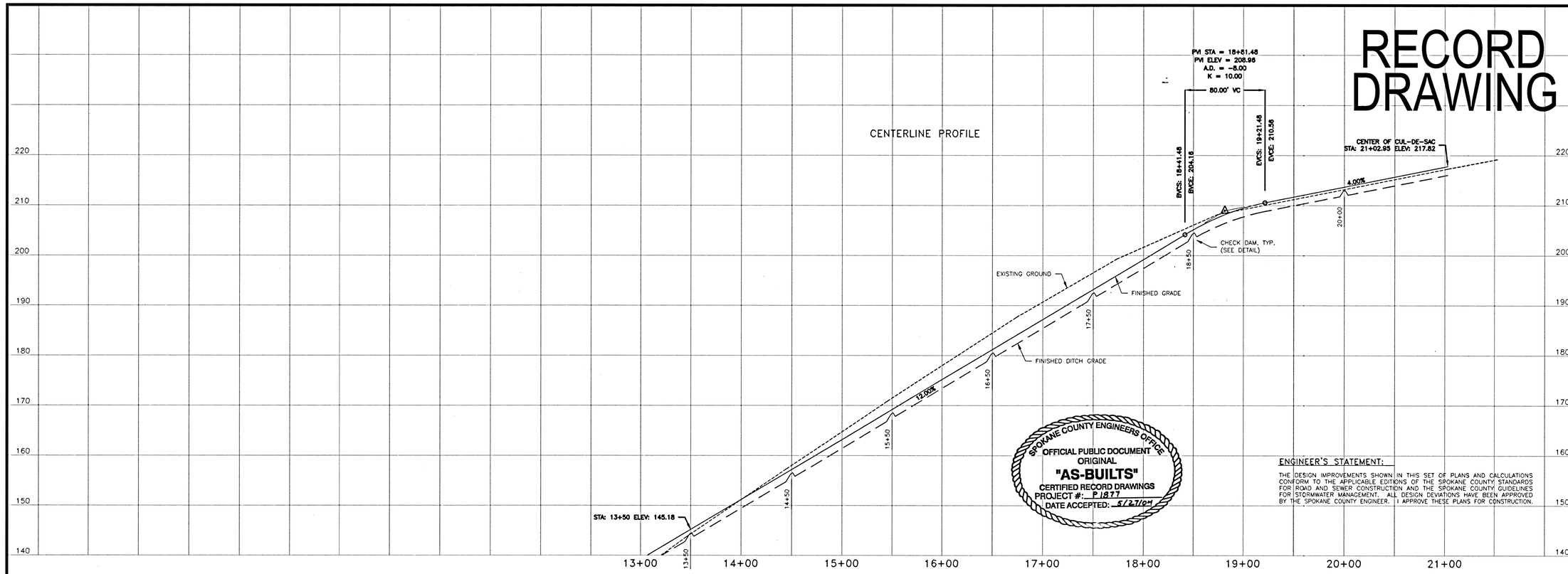
SHEET 2 OF 4

00-043

0043-ST1.DWG XREF: 0043BASE.DWG

P-1877 Eng As-Builts

RECORD DRAWING



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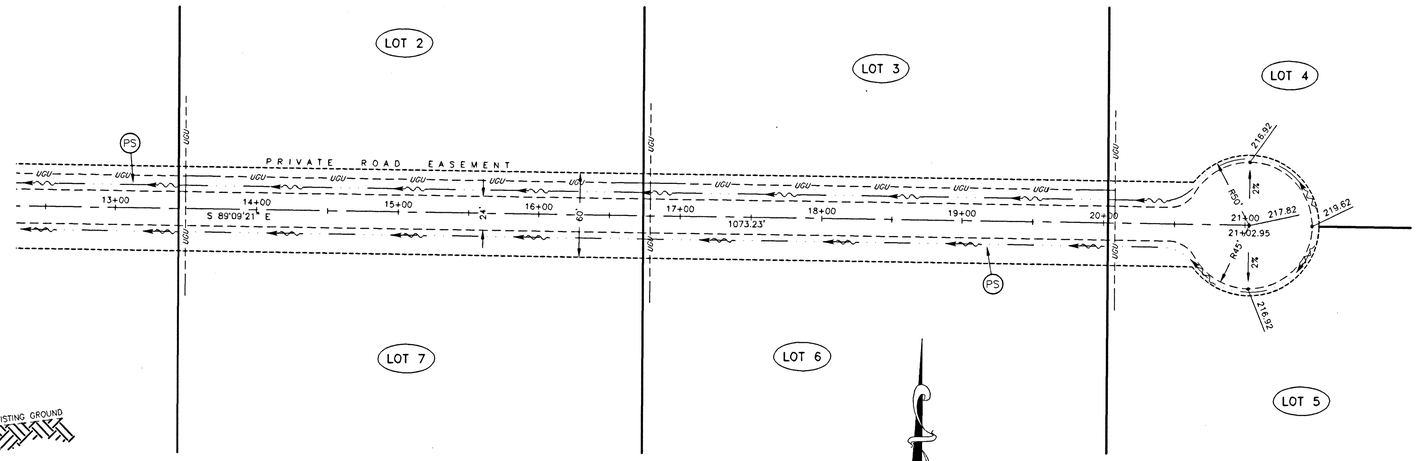
EROSION/SEDIMENT CONTROL SYMBOLS

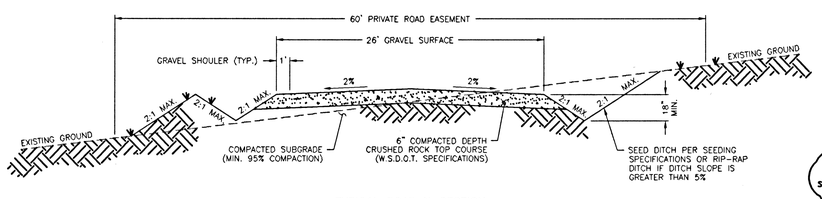
SEE SHEET 4 FOR EROSION CONTROL DETAILS AND NOTES

(PS) PERMANENT SEEDING & PLANTING

LEGEND

- PROPOSED DITCH LINE
- PROPOSED EDGE OF GRAVEL
- 216.82 PROPOSED SPOT ELEVATION
- UGU EXISTING BURIED GAS, ELECTRIC, TELEPHONE LINES (APPROXIMATE LOCATION, FIELD VERIFY)





TYPICAL ROAD X-SECTION

NOT TO SCALE

I have reviewed the construction and to my knowledge find it to be in substantial conformance with the approved certified plans and Standard Specifications except as noted.

PAUL T. NELSON
STATE OF WASHINGTON
37228
REGISTERED
PROFESSIONAL ENGINEER
5-13-04

EXPIRES 11/24/05

STI NORTHWEST, INC.

Record Drawing prepared by STI Northwest 4/30/04

0 25 50 100
SCALE: 1" = 50'

DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

BENCHMARK

ELEVATION = 100.00 (ASSUMED)
RAILROAD SPIKE IN TREE 106'± EAST OF HAZARD ROAD & TANYA LANE INTERSECTION

0043-ST2.DWG XREF: 0043BASE.DWG

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 10/10/01
SCALE: AS SHOWN

VASILENKO HILL
TANYA LANE
ROAD AND DRAINAGE PLAN

SHEET 3 OF 4

00-043

P-1877 Eng As-Builts

RECORD DRAWING

I have reviewed the construction and to my knowledge find it to be in substantial conformance with the approved certified plans and Standard Specifications except as noted.

PAUL LINELSON — STATE OF WASHINGTON — 37228 — REGISTERED PROFESSIONAL ENGINEER — 5-13-04

EXPIRES 11/24/05

STI NORTHWEST, INC.

Record Drawing prepared by STI Northwest 4/30/04

II-5.6.1 BMP E2.10: STABILIZED CONSTRUCTION ENTRANCE AND TIRE WASH

CODE: (CE) SYMBOL: (CE)

DEFINITION:

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

PURPOSE:

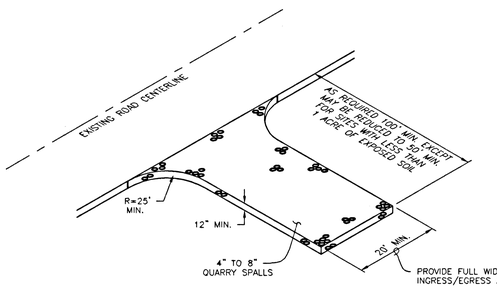
TO REDUCE THE AMOUNT OF MUD, DIRT, ROCKS, ETC. TRANSPORTED ONTO PUBLIC ROADS BY MOTOR VEHICLES OR RUNOFF BY CONSTRUCTING A STABILIZED PAD OF ROCK SPALLS AT ENTRANCES TO CONSTRUCTION SITES AND WASHING OF TIRES DURING EGRESS.

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 AND 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.



STABILIZED CONSTRUCTION ENTRANCE AND TIRE WASH (CE)

NOT TO SCALE

II-5.4.3 BMP E1.35: PERMANENT SEEDING AND PLANTING

CODE: (PS) SYMBOL: —(PS)—

DEFINITION:

THE ESTABLISHMENT OF PERENNIAL VEGETATIVE COVER ON DISTURBED AREAS.

PURPOSE:

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

TO PROVIDE POLLUTANT FILTRATION (BIOFILTRATION) IN VEGETATION-LINED CHANNELS AND TO ESTABLISH CONSTRUCTED WETLANDS AS REQUIRED (SEE BMP RW.10 IN CHAPTER III-4 AND RV.05 IN CHAPTER III-6).

CONDITIONS WHERE PRACTICE APPLIES:

- GRADED, FINAL GRADED OR CLEARED AREAS WHERE PERMANENT VEGETATIVE COVER IS NEEDED TO STABILIZE 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.

GRASS SEED:

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

20% ELKA PERENNIAL RYE	20% DURAR HARD FESCUE
45% COVAR SHEEP FESCUE	15% RUEBENS CANADIAN BLUEGRASS

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

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

ALL SEEDING SHALL BE DONE IN ACCORDANCE WITH THE WSDOT 2000 STANDARD SPECIFICATIONS, SECTION 8-01. THE SEEDING DATES ALLOWED IN SECTION 8-01.3(7) SHALL BE AMENDED TO INCLUDE MARCH 1 TO MAY 15. CONTRACTOR TO IRRIGATE SEEDED AREAS UNTIL SEED HAS GERMINATED.

PERMANENT SEEDING/SEED SPECIFICATIONS (PS)

ENGINEER'S STATEMENT:

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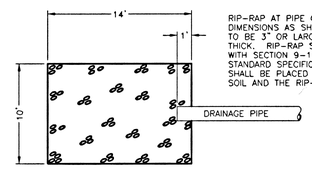
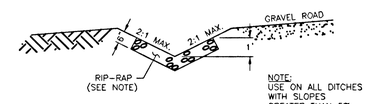


RIP-RAP AT PIPE OUTLETS WITH MINIMUM DIMENSIONS AS SHOWN. 50% OF RIP-RAP TO BE 3" OR LARGER (d50=3"), MIN. 6" THICK. RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 9-13.1 OF THE WSDOT/APWA STANDARD SPECIFICATIONS. FILTER FABRIC SHALL BE PLACED BETWEEN THE NATIVE SOIL AND THE RIP-RAP.

RIP-RAP DETAIL
NOT TO SCALE



NOTE:
USE ON ALL DITCHES WITH SLOPES GREATER THAN 5%.

DITCH RIP-RAP DETAIL
NOT TO SCALE

II-5.8.1 BMP E3.10: FILTER FENCE

CODE: (FF) SYMBOL: —X—X—X—

PURPOSE:

1) 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.

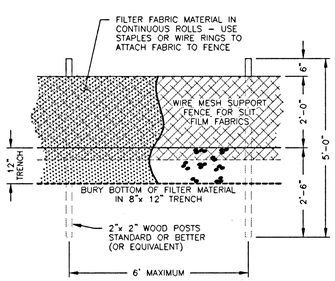
2) TO DECREASE THE VELOCITY OF SHEET FLOWS.

CONDITIONS WHERE PRACTICE APPLIES:

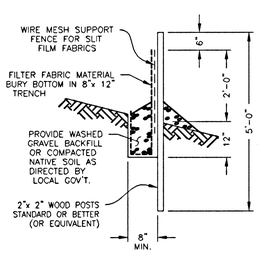
- FILTER FENCES MUST BE PROVIDED JUST UPSTREAM OF THE POINT(S) OF DISCHARGE OF RUNOFF FROM A SITE, BEFORE THE FLOW BECOMES CONCENTRATED. THEY MAY ALSO BE REQUIRED:
  1) BELOW DISTURBED AREAS WHERE RUNOFF MAY OCCUR IN THE FORM OF SHEET AND RILL EROSION; WHEREVER RUNOFF HAS THE POTENTIAL TO IMPACT DOWNSTREAM RESOURCES.
  2) PERPENDICULAR TO MINOR SWALES OR DITCH LINES FOR CONTRIBUTING DRAINAGE AREAS UP TO ONE ACRE IN SIZE.

OPTION "1" 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.



FRONT VIEW
(OPTION "1")



END VIEW
(OPTION "1")

OPTION "1" STANDARD NOTES:

A) 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 SPLICED TOGETHER ONLY AT A SUPPORT POST, WITH A MINIMUM 6 INCH OVERLAP, AND BOTH ENDS SECURELY FASTENED TO THE POST.

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

C) A TRENCH SHALL BE EXCAVATED APPROXIMATELY 8 INCHES WIDE AND 12 INCHES DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOUR.

D) WHEN SLIT FILM FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY-DUTY WIRE STAPLES AT LEAST 1 INCH LONG, TIE WIRES OR HOG RINGS. 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.

E) 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.

F) 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 POSTS WITH ALL OTHER PROVISIONS OF STANDARD NOTE "E" APPLYING. EXTRA CARE SHOULD BE USED WHEN JOINING OR OVERLAPPING THESE STIFFER FABRICS.

G) LOCAL GOVERNMENTS MAY SPECIFY THE USE OF PROPERLY COMPACTED NATIVE MATERIAL. IN MANY INSTANCES, THIS MAY BE THE PREFERRED ALTERNATIVE BECAUSE THE SOIL FORMS A MORE CONTINUOUS CONTACT WITH THE TRENCH BELOW.

OPTION "2" DEFINITION:

A TEMPORARY SEDIMENT BARRIER CONSISTING OF STRAW BALES PLACED END TO END. THE BARRIER IS CONSTRUCTED BY DIGGING A 6" DEEP TRENCH AND PLACING THE STRAW BALES IN THE TRENCH END TO END FOR THE LENGTH OF THE REQUIRED BARRIER.

OPTION "2" STANDARD NOTES:

A) STRAW BALES SHALL BE 3-STRING BALES WITH MINIMUM DIMENSIONS OF 22"x 16"x 48".

B) A TRENCH SHALL BE EXCAVATED TO A DEPTH OF 6" ALONG THE LENGTH OF THE BARRIER. THE TRENCH SHALL BE CONSTRUCTED TO FOLLOW THE CONTOUR. THE STRAW BALES SHALL BE PLACED IN THE TRENCH. THE BALE SHALL BE PLACED ON THE NARROW SIDE SO THAT THE 22" DIMENSION IS VERTICAL. THE BOTTOM 6" SHALL BE BACKFILLED, LEAVING 16" EXTENDING OUT OF THE GROUND.

C) THE BALES SHALL BE PLACED AS CLOSE TOGETHER AS POSSIBLE SO THAT THERE ARE NO GAPS BETWEEN THE BALES.

FILTER FENCE (FF)

NOT TO SCALE

SPOKANE COUNTY ENGINEERS OFFICE
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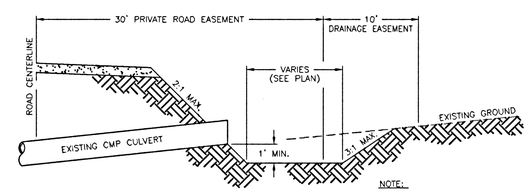
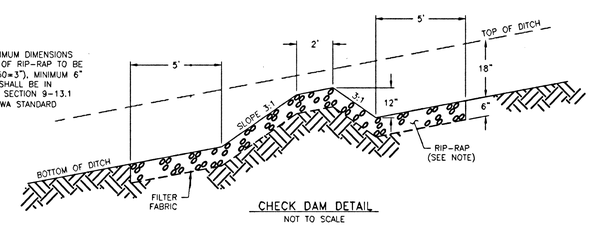


NOTE:
SEED SWALES PER SEEDING SPECIFICATIONS.

SWALE DETAIL
NOT TO SCALE

RIP-RAP NOTE:

RIP-RAP WITH MINIMUM DIMENSIONS AS SHOWN. 50% OF RIP-RAP TO BE 3" OR LARGER (d50=3"), MINIMUM 6" THICK. RIP-RAP SHALL BE IN ACCORDANCE WITH SECTION 9-13.1 OF THE WSDOT/APWA STANDARD SPECIFICATIONS.



CHECK DAM DETAIL
NOT TO SCALE

DEVELOPER'S APPROVAL DATE

CALL BEFORE YOU DIG 456-8000

METRO ENGINEERING, INC.
S. 324 SHERMAN
SPOKANE, WA 99202
(509) 624-9351

DRAWN BY: JKO
CHECKED BY: JGL
DATE: 08/17/01
SCALE: AS SHOWN

VASILENKO HILL
EROSION CONTROL
AND DRAINAGE DETAILS

SHEET 4 OF 4

00-043

0043-S15.DWG

P-1877 Eng As-Builts