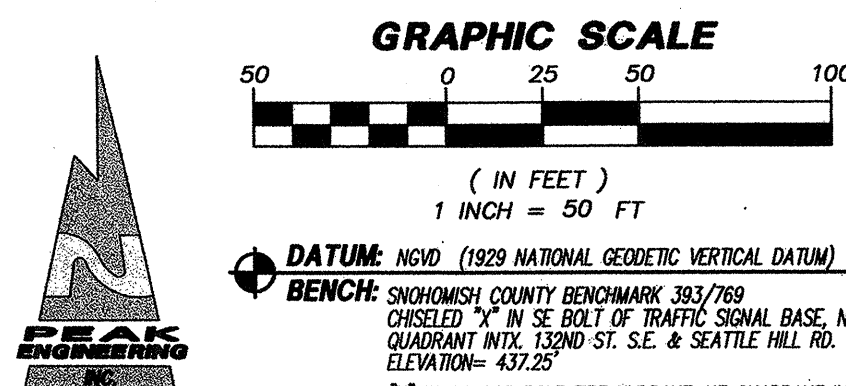


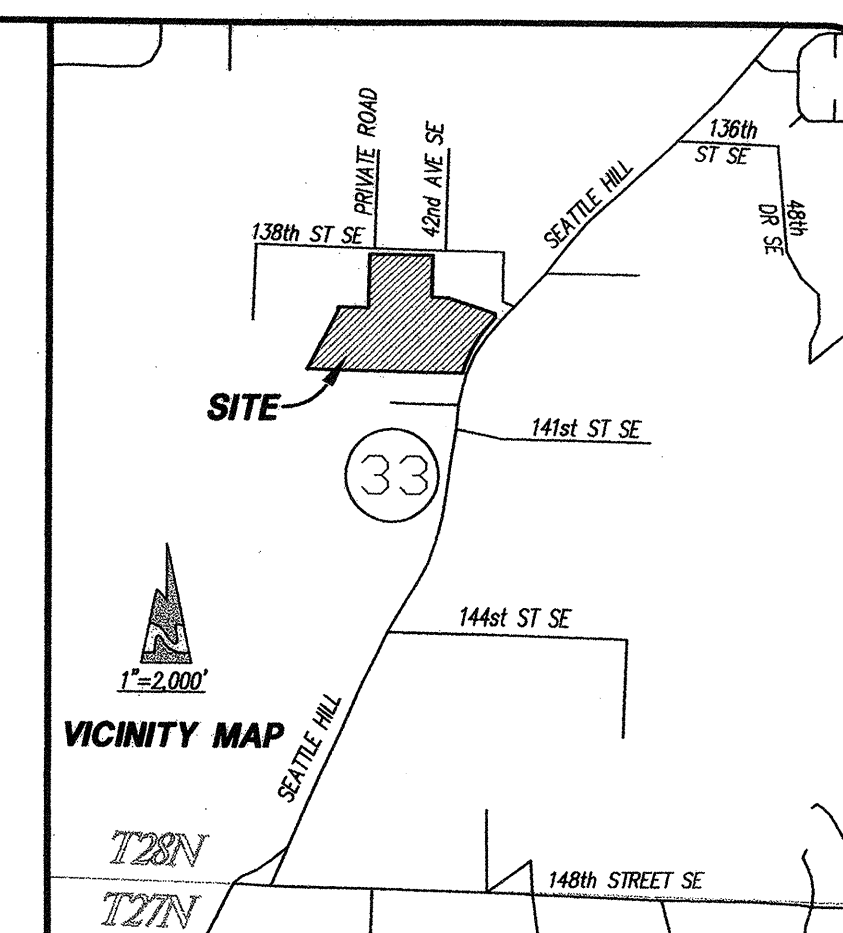


SWPPP LEGEND

- (P) PRESERVE NATURAL VEGETATION
- (S) STABILIZED CONSTRUCTION ENTRANCE
- (R) SURFACE ROUGHENING (IF EXISTING VEGETATION HAS BEEN REMOVED)
- (F) FILTER (SILT) FENCE
- (D) STORM DRAIN INLET PROTECTION
- (C) CLEARING LIMITS
- (V) DUST CONTROL
- (S) CONSTRUCTION ROAD STABILIZATION
- (S) DAILY STREET SWEEPING
- (S) TEMPORARY SEEDING
- (B) FILTER BERM

CONSTRUCTION SEQUENCE

- THIS CONSTRUCTION SEQUENCE IS TO BE USED AS A GUIDELINE. CONDITIONS MAY REQUIRE CHANGES IN TIMING OF WORK. CHANGES SHALL BE DISCUSSED WITH AND APPROVED BY INSPECTOR AND OWNER.
1. ARRANGE AND ATTEND PRE-CONSTRUCTION MEETING WITH THE COUNTY.
 2. FLAG PROPERTY LINES AND CLEARING LIMITS AS INDICATED.
 3. INSTALL SILT FENCES, FILTER BERM AND TEMPORARY CONSTRUCTION ENTRANCES PER PLAN.
 4. CLEAR & GRUB TO PHASE 1 CLEARING LIMITS. LEAVING AS MUCH GROUND COVER AS POSSIBLE.
 5. ROUGH GRADE ROAD.
 6. CONSTRUCT DETENTION VAULT (FINAL VAULT TO FUNCTION AS TEMPORARY SEDIMENT VAULT) AND INSTALL ALL STORM, SEWER, & WATER IMPROVEMENTS.
 7. CLEAR, GRUB & FILL PHASE 2.
 8. CONSTRUCT ROAD.
 9. STABILIZE DISTURBED LAND SURFACES.
 10. REMOVE REMAINING SWPPP STRUCTURES AFTER SITE HAS BEEN STABILIZED AND APPROVED BY THE COUNTY DEVELOPMENT INSPECTOR.
 11. REMOVE SEDIMENTS FROM VAULT, CLEAN STORM DRAINAGE SYSTEM AND PLACE INTO OPERATION.

**LEGAL DESCRIPTION:**

PARCEL A:
LOT 2 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 840180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL B:
LOT 3 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 840180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL C:
LOT 4 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 840180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL D:
LOT 3 OF SHORT PLAT 28708316SP RECORDED UNDER RECORDING NUMBER 8805080123, BEING A PORTION OF LOT 1 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL E:
LOT 4 OF SHORT PLAT 28708316SP RECORDED UNDER RECORDING NUMBER 8805080123, BEING A PORTION OF LOT 1 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

SITE DATA:

EXISTING ZONING: R-9600
PROPOSED ZONING: R-7200
TOTAL SITE AREA: 372,842 SF, 8.63ac
WATER DISTRICT: SILVERLAKE WATER DISTRICT
SEWER DISPOSAL: SILVERLAKE WATER DISTRICT
SCHOOL DISTRICT: EVERETT
FIRE DISTRICT: FPD 11

OWNERS OF RECORD:

STEVEN & PEGGY LEFLEY
4032 139th St.
SNOHOMISH, WA 98290
425-338-1458

GARY & KATHRYN FONTES
13904 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-338-4878

JAMES LOWMY
13928 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-316-8553

BARRETT AUREK
13930 SEATTLE HILL ROAD
SNOHOMISH, WA 98290

SITE ADDRESS:

13904 SEATTLE HILL ROAD SE, 13928 SEATTLE HILL ROAD SE,
13930 SEATTLE HILL ROAD SE, 4120 139th STREET SE &
4032 139th STREET SE, SNOHOMISH, WA 98290

TAX PARCEL NO.S:

28053300203200 & 28053300203300
28053300203400 & 28053300203500
28053300203600

TEMPORARY EROSION CONTROL NOTE:

TEMPORARY EROSION CONTROL MEASURES ON THIS PLAN ARE INTENDED AS A GUIDE. ADDITIONAL BMP'S MAY BE REQUIRED FOR THIS DEVELOPMENT AS SITE & WEATHER CONDITIONS CHANGE ON SITE. THE CONTRACTOR/DEVELOPER SHALL COORDINATE WITH THE SITE INSPECTOR & THE PROJECT ENGINEER AS NEEDED FOR EROSION CONTROL RECOMMENDATIONS.

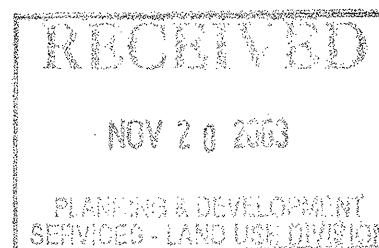
EROSION CONTROL CONCEPT

ALL DISTURBED AREAS SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION. LEAVE VEGETATIVE BUFFER AROUND PERIMETER OF SITE AND EXISTING GROUND COVER AS LONG AS POSSIBLE. SEE SHEET 14 OF 4 FOR SWPPP NOTES. A SWPPP WILL BE PREPARED AT THE CONSTRUCTION PLAN STAGE.

RISK ASSESSMENT: HIGH

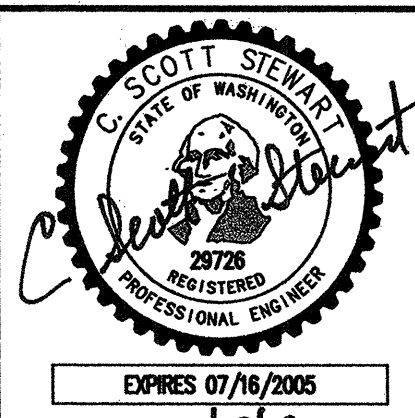
DATE	REVISION/ISSUED
11/14/03	ISSUED

Exhibit Number: 4 A
PFN: 03-109825 SD



PEAK ENGINEERING INC.

1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 FAX: (360) 658-7826

**SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:**

MEAD GILMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 289
WOODINVILLE, WA 98072
PH: 425-486-1252
JOB #03055

APPLICANT/OWNER

GORDON REYNOL
8908 EASTVIEW AVENUE
EVERETT, WA 98208
425-357-2429

CONTACT

TOBIASON & CO. INC.
110 THIRD AVE N, STE 101
EDMONDS, WA 98020
ATtn: LAUREY TOBIASON

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

PFN: 03-109825
APPLETREE NORTH
TARGETED DRAINAGE PLAN
EXISTING CONDITIONS
& SWPPP PLAN

PROJECT NO.

03496

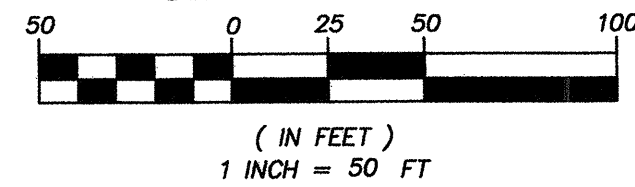
DWG

P1

OF 1

HDEV-2145

GRAPHIC SCALE



DATUM: NAD 83 (1983 NATIONAL GEODETIC VERTICAL DATUM)

BENCH: SNOHOMISH COUNTY BENCHMARK 383/789

CHISELED "X" IN SE BOLT OF TRAFFIC SIGNAL BASE, NW QUADRANT INTX. 138TH ST. SE. & SEATTLE HILL RD. ELEVATION= 437.25'

TBM-A: 2" IN SW CAP BOLT FIRE HYDRANT, NE QUADRANT INTX. 138TH ST. SE. & 42ND AVE. SE. ELEVATION= 433.52'

TBM-B: CHISELED SQUARE IN SE COR. POWER VAULT, SW COR. SITE. ELEVATION= 415.91'

SUN ROSE
A.F. NO.200009208002

DRAINAGE NOTES:

1. THE EXISTING SITE SLOPES EAST TO WEST AT APPROX. 4.0%.
2. SOILS ON SITE ARE ALDERWOOD URBAN COMPLEX, HYDROLOGIC SOIL GROUP "C".
3. EXISTING COVER:
0.81 AC - RESIDENCES, D/W'S & OUT BUILDINGS
7.29 AC - PASTURE/GRASS w/SOME TREES
4. DEVELOPED CONDITION:
3.32 AC GRASS/LANDSCAPING
4.89 AC IMPERVIOUS (ROAD & FRONTAGE, RESIDENCES, & D/W'S)
5. RUNOFF FROM IMPERVIOUS SURFACES WILL BE COLLECTED AND CONVEYED TO THE DETENTION VAULT AND WATER QUALITY VAULT.
6. OUTFLOW FROM THE VAULT WILL BE NORTHERLY TO 138TH ST SE WHERE A NEW STORM SYSTEM (DEEPER THAN EXISTING) WILL DIRECT RUNOFF WEST TO THE OFFSITE WETLAND.
7. SEE "TARGETED DRAINAGE REPORT, DOWNSIDE ANALYSIS AND EROSION RISK ASSESSMENT" DATED OCT. 28, 2003, PREPARED BY PEAK ENGINEERING, INC.
8. LOTS 1, 2 & 3 ARE TO PROVIDE SPLASH BLOCKS.

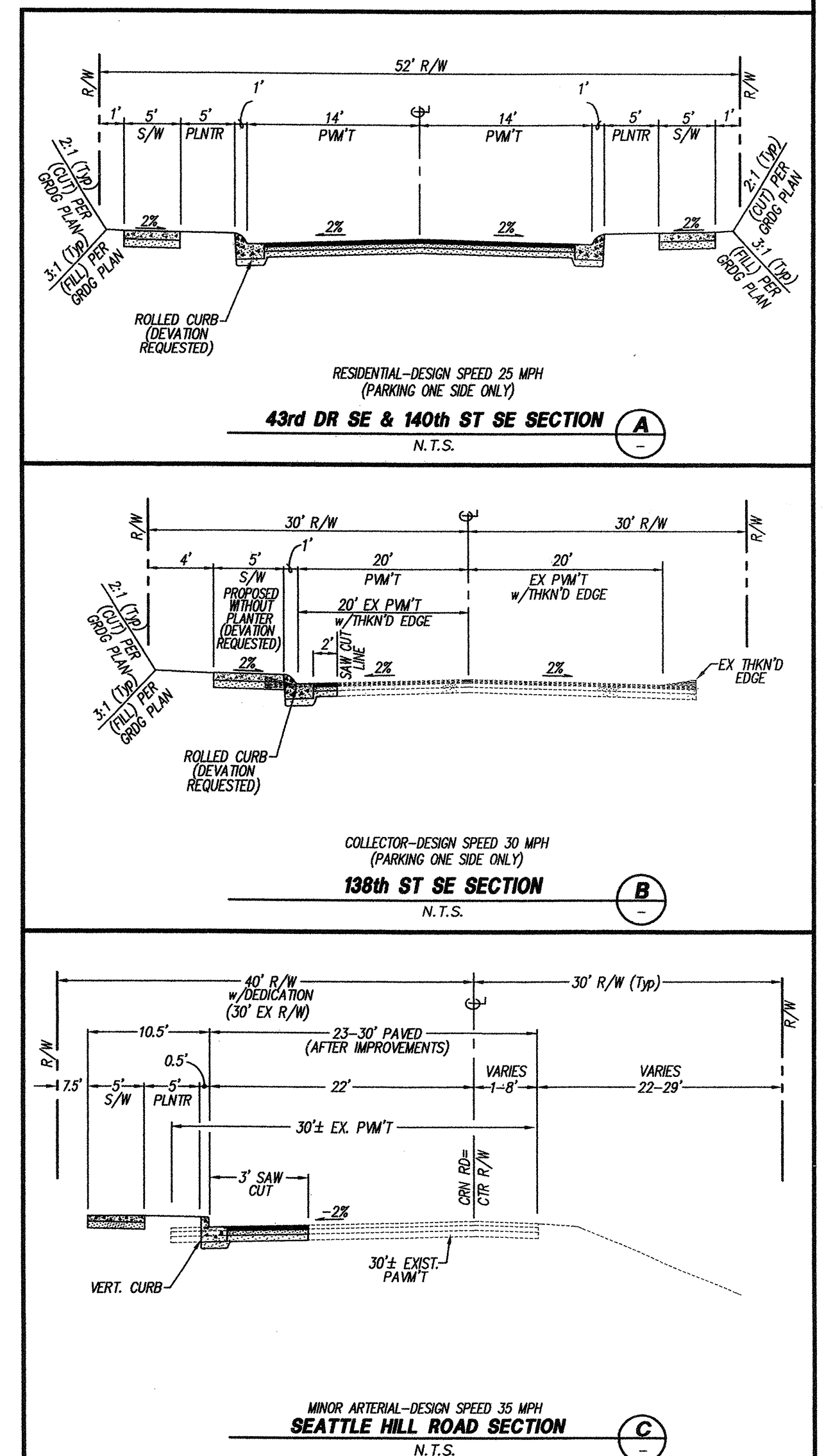
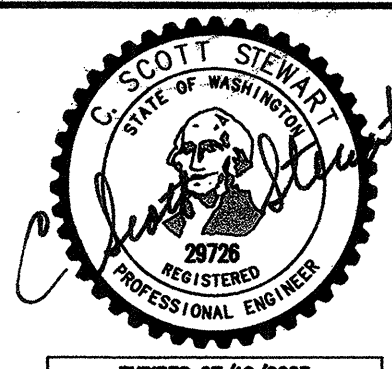


Exhibit Number: 4 B
PFN: 03-109825 SD



1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 / FAX: (360) 658-7626



EXPIRES 07/16/2005
DATE: 11/16/03

SURVEY & TOPOGRAPHIC
INFORMATION PROVIDED BY:

HEAD GLIMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 289
WOODINVILLE, WA 98072
PH: 425-486-1252
JOB #03055

GRADING ESTIMATE

CUT: 8,000 CY's
FILL: 8,000 CY's

THE GRADING ESTIMATE PROVIDED FOR THESE PLANS IS APPROXIMATE. ACTUAL GRADING VOLUMES MAY VARY. CALCULATIONS DO NOT ACCOUNT FOR VARIOUS VOLUMETRIC CHANGES DURING THE EARTH WORK PROCESS.

GRADING ESTIMATE PRODUCED USING LAND DEVELOPMENT DESKTOP REL. 2. SURFACE MODEL. EXISTING GROUND AND PROPOSED FINISHED GRADE SURFACE MODEL COMPARISON USING THE AVERAGE GRID AREA METHOD WITH SECTION SAMPLING @ 10' INTERVALS.

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

PFN:
APPLETREE NORTH
TARGETED DRAINAGE PLAN
GRADING & DRAINAGE PLAN

PROJECT NO.

03496

DWG

P2

OF 4

HDEV-2140

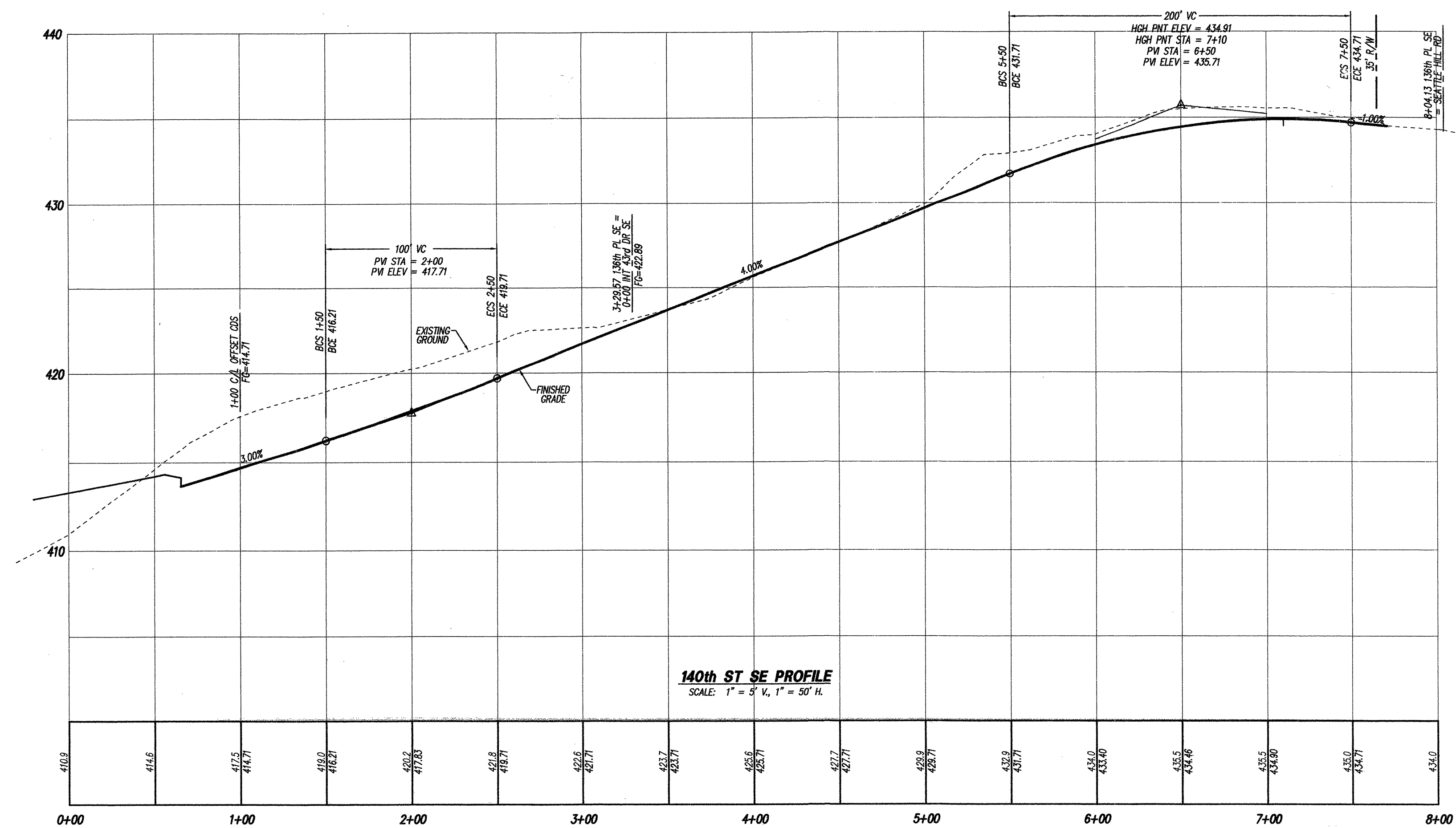
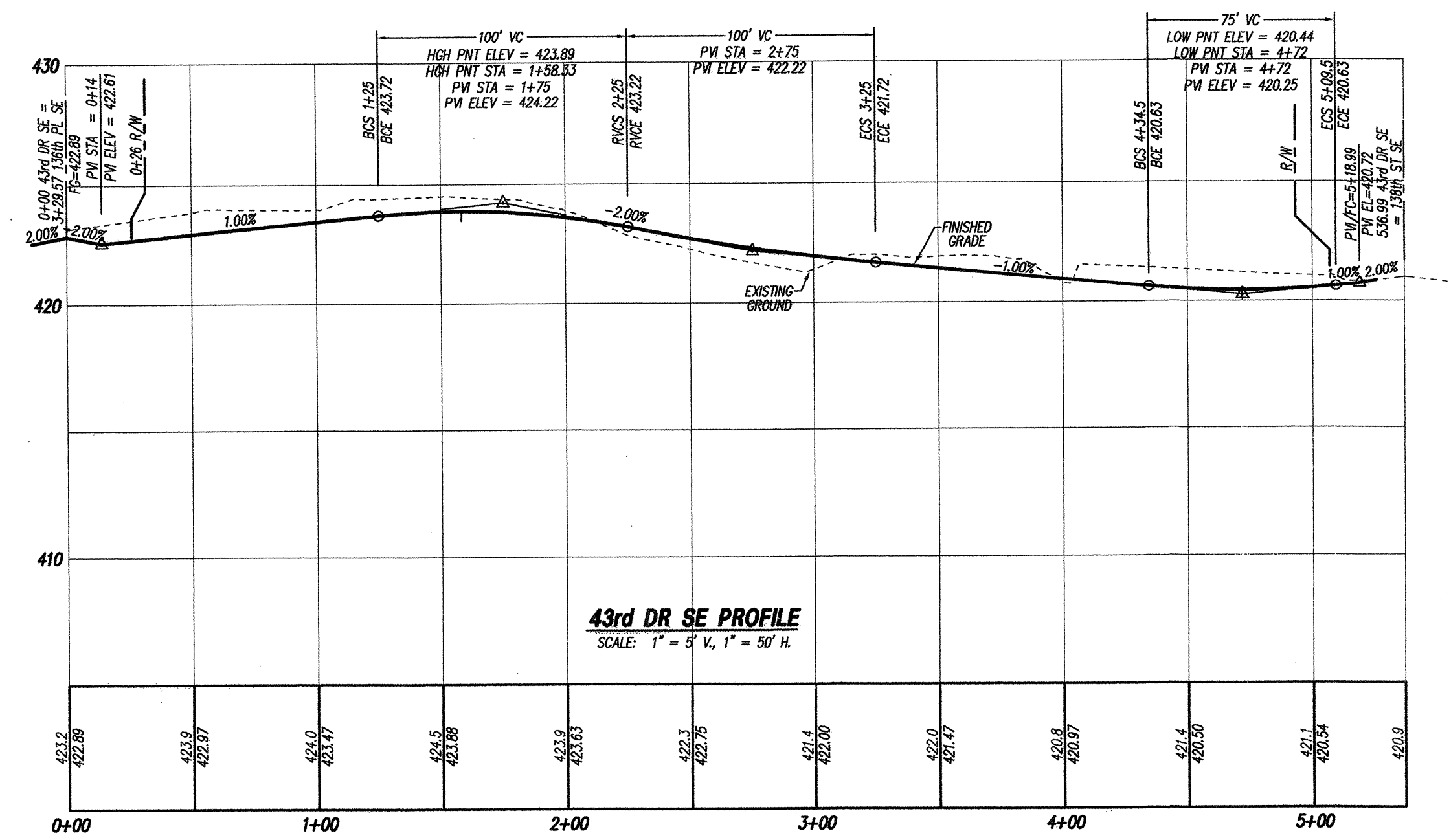
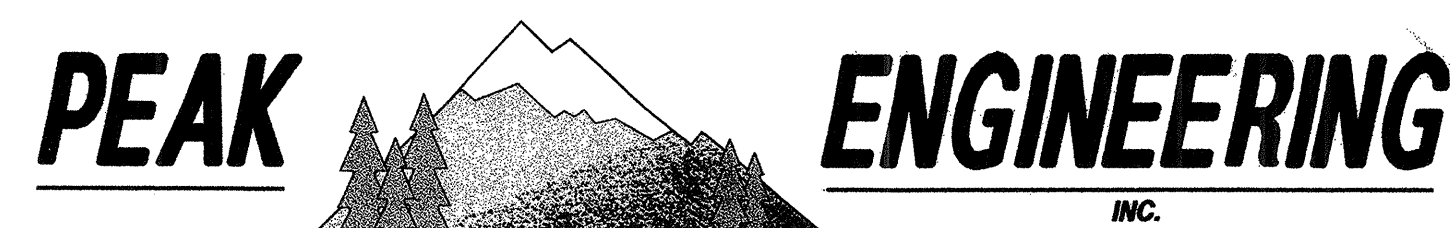
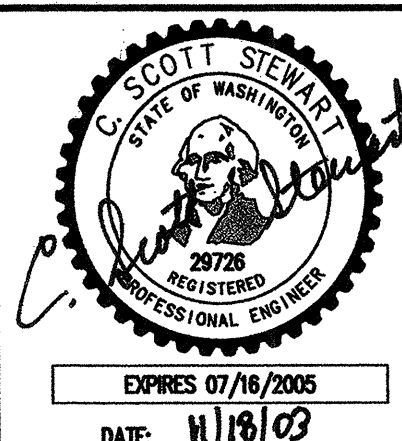


Exhibit Number: 4 C
PFN: 03-109825 SD



1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 / FAX: (360) 658-7826



**SURVEY & TOPOGRAPHIC
INFORMATION PROVIDED BY:**

MEAD GILMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 289
WOODINVILLE, WA 98072
PH: 425-486-1252
JOB #03055

DATUM: NGVD (1929 NATIONAL GEODETIC VERTICAL DATUM)
BENCH: SNOHOMISH COUNTY BENCHMARK 383/789
CHISELED "X" IN SE BOLT OF TRAFFIC SIGNAL BASE, NW
QUADRANT INTX. 132ND ST. S.E. & SEATTLE HILL RD.
ELEVATION = 437.25'
TBM-A: "X" IN SW CAP BOLT FIRE HYDRANT, NE QUADRANT INTX.
130TH ST. S.E. & 42ND AVE. S.E.
ELEVATION = 433.52'
TBM-B: CHISELED SQUARE IN SE COR. POWER VAULT, SW COR. SITE.
ELEVATION = 415.91'

CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555

THE CONTRACTOR SHALL VERIFY THE LOCATION OF
ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES
INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE
TIME PRIOR TO THE START OF CONSTRUCTION.

PFN:
APPLETREE NORTH
TARGETED DRAINAGE PLAN
ROAD PROFILES

PROJECT NO.
03496
DWG
P3
OF 4

HDEV-2147

GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH CURRENT SNOHOMISH COUNTY STANDARDS AND SPECIFICATIONS, (EDS) WASHINGTON STATE DEPARTMENT OF TRANSPORTATION CURRENT STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION AND THE CURRENT WSDOT HYDRAULICS MANUAL.
- ALL WORK WITHIN THE PLAT AND COUNTY RIGHT-OF-WAY SHALL BE SUBJECT TO THE INSPECTION OF THE COUNTY ENGINEER OR HIS DESIGNATED REPRESENTATIVE.
- PRIOR TO ANY SITE WORK, THE CONTRACTOR SHALL CONTACT THE CHIEF INSPECTOR FOR LAND DEVELOPMENT DIVISION AT (425) 388-3385 TO SCHEDULE A PRECONSTRUCTION CONFERENCE. FIELD CHANGES REQUIRING REDESIGN FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION. ENGINEERED AS-BUILTS SHALL BE REQUIRED PRIOR TO SITE APPROVAL.
- SEDIMENT LADEN WATERS SHALL NOT ENTER THE NATURAL DRAINAGE SYSTEM.
- TRENCH BACKFILL OF NEW UTILITIES AND STORM DRAINAGE FACILITIES SHALL BE COMPACTED TO 95% MAXIMUM DENSITY (MODIFIED PROCTOR) UNDER ROADWAYS AND 90% MAXIMUM DENSITY (MODIFIED PROCTOR) OFF ROADWAYS, AS SPECIFIED IN SECTION 2-03.3(14)C COMPACTING EARTH EMBANKMENTS METHOD B.
- THE OWNER AND CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND PROTECTING ALL EXISTING UTILITIES PRIOR TO BEGINNING CONSTRUCTION. LOCATION OF UTILITIES SHOWN ON CONSTRUCTION PLANS ARE BASED ON BEST RECORDS AVAILABLE AND ARE SUBJECT TO VARIATION. FOR AID IN UTILITY LOCATION CALL 1-800-424-5555.
- THE CONTRACTOR SHALL NOTIFY PEAK ENGINEERING, INC. AND THE COUNTY INSPECTOR WHEN CONFLICTS BETWEEN THE PLANS AND FIELD CONDITIONS EXIST PRIOR TO CONSTRUCTION AND SAID CONFLICTS SHALL BE RESOLVED PRIOR TO PROCEEDING WITH CONSTRUCTION.
- THE CONTRACTOR SHALL KEEP TWO SETS OF APPROVED PLANS ON SITE AT ALL TIMES FOR RECORDING AS-BUILT INFORMATION; ONE SET SHALL BE SUBMITTED TO PEAK ENGINEERING AT COMPLETION OF CONSTRUCTION AND PRIOR TO FINAL ACCEPTANCE OF WORK.
- A GRADING PERMIT ISSUED PURSUANT TO TITLE 30.63B SDC AND CHAPTER 33 UBC AND APPROVAL OF THE TEMPORARY EROSION AND SEDIMENTATION CONTROL PLAN SHALL HAVE BEEN OBTAINED FROM PLANNING & DEVELOPMENT SERVICES FOR ANY ON SITE GRADING WHICH IS NOT EXPRESSLY EXEMPT BY SECTION 30.63B.020 S.C.C.
- LOT LINES SHOWN HEREON ARE APPROXIMATE. ACTUAL PLATTED DIMENSIONS AND/OR DEEDED LOCATIONS SHALL TAKE PRECEDENCE.
- A COPY OF THESE APPROVED PLANS, WSDOT CURRENT STANDARD SPECIFICATIONS AND SNOHOMISH COUNTY PUBLIC WORKS ENGINEERING DESIGN AND DEVELOPMENT STANDARDS SHALL BE ON THE JOB SITE WHENEVER WORK IS IN PROGRESS.
- WORK IN THE COUNTY RIGHT-OF-WAY MAY REQUIRE A LANE CLOSURE RIGHT-OF-WAY USE PERMIT FROM THE DEPARTMENT OF PUBLIC WORKS.

STORM DRAINAGE NOTES

- UNLESS OTHERWISE NOTED, ALL STORM SEWER PIPE SHALL BE SMOOTH WALLED STORM DRAIN (SD). SD SHALL BE REINFORCED CONCRETE PIPE (RCP), CORRUGATED POLYETHYLENE PIPE (CPP), POLYETHYLENE VINYL CHLORIDE PIPE (PVC), OR RIBBED PVC. CPP SHALL BE HIGH DENSITY CORRUGATED POLYETHYLENE SMOOTH INTERIOR PIPE AND SHALL BE MANUFACTURED IN CONFORMITY WITH THE LATEST AASHTO SPECIFICATIONS FOR M 294 TYPE S AND THE MATERIAL COMPOUND SHALL CONFORM TO ASTM D 3350. PIPE JOINTS AND FITTINGS SHALL CONFORM TO AASHTO M 294. COUPLINGS SHALL BE INTEGRAL BELL AND SPIGOT OR DOUBLE BELL SEPARATE COUPLINGS. SPLIT COUPLINGS WILL NOT BE ALLOWED. POLYETHYLENE VINYL CHLORIDE PIPE (PVC) SHALL CONFORM TO SDPS, ASTM D 3034. RIBBED PVC SHALL COMPLY WITH ASTM F794 AND BE MADE FROM PVC CONFORMING TO THE REQUIREMENTS OF ASTM D1784. CELL CLASS 12364B. GASSET MATERIAL SHALL CONFORM WITH ASTM F477 & THE JOINT SHALL BE AN INTEGRAL-BELL GASKETED JOINT CONFORMING WITH ASTM D3212. CORRUGATED METAL PIPE (CMP) IS TO BE GALVANIZED STEEL WITH TREATMENT 1 ASPHALT COATING OR BETTER, OR CORRUGATED ALUMINUM PIPE, OR AASHTO M274-70 ALUMINIZED STEEL.

MINIMUM COVERAGE REQUIREMENTS FOR 12" PIPE IN TRAFFIC AREAS

< 1.5" REQUIRES RCP (REINFORCED CONCRETE PIPE) MINIMUM

> 1.5" REQUIRES 16 GAUGE CMP, OR COP MINIMUM

- ALL PIPE SHALL BE PLACED ON STABLE EARTH, OR IF IN THE OPINION OF THE COUNTY INSPECTOR, THE EXISTING FOUNDATION IS UNSATISFACTORY, THEN IT SHALL BE EXCAVATED BELOW GRADE AND BACKFILLED WITH A GRAVEL MATERIAL TO SUPPORT THE PIPE.
- THE BACKFILL SHALL BE PLACED EQUALLY ON BOTH SIDES OF THE PIPE OR PIPE-ARCH IN LAYERS WITH A LOOSE AVERAGE DEPTH OF 6". MAXIMUM DEPTH 9" THOROUGHLY TAMING EACH LAYER. THESE COMPACTED LAYERS MUST EXTEND FOR ONE DIAMETER ON EACH SIDE OF THE PIPE OR TO THE SIDE OF THE TRENCH. MATERIALS TO COMPLETE THE FILL OVER PIPE SHALL BE THE SAME AS DESCRIBED. (REFER TO WSDOT STANDARD SPECIFICATION 7-04.3(3) AND STANDARD SPECIFICATION 2-03.2(14)C, METHOD B&C.
- ALL GRATES (INLET AND CATCH BASIN) SHALL BE DEPRESSED 0.1 FEET BELOW PAVEMENT LEVEL. GRATE ELEVATIONS SHOWN ON PLANS ARE PAVEMENT LEVEL.
- ALL CATCH BASINS TO BE TYPE I, UNLESS OTHERWISE NOTED.
- ALL CATCH BASINS WITH A DEPTH OVER 5.0 FEET TO THE FLOW LINE SHALL BE A TYPE II CB (MANHOLE).
- ALL TYPE II CATCH BASIN MANHOLES AND ALL INLET AND CATCH BASINS SHALL HAVE LOCKING LIDS. ROLLED GRATES ARE NOT APPROVED FOR OUTSIDE OF COUNTY RIGHT-OF-WAY OR FOR USE WITH TYPE II MANHOLE.
- STANDARD LADDER STEPS SHALL BE PROVIDED IN ALL CATCH BASINS/MANHOLES EXCEEDING 5 FEET IN DEPTH.
- CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL SM60 LOOKING TYPE OR APPROVED EQUAL. TYPE II CATCH BASIN FRAME AND GRATES SHALL BE OLYMPIC FOUNDRY MODEL MH30, MH26 OR APPROVED EQUAL.
- DETENTION PONDS WITH SIDE SLOPES STEEPER THAN 3:1 SHALL REQUIRE A PERIMETER FENCE PER SNOHOMISH COUNTY CODE. SIDE SLOPE AVERAGING SHALL NOT BE ALLOWED.
- CMP PIPE SPECIFICATIONS: (MAY BE USED FOR POND CONTROL STRUCTURE BUT NOT INTENDED FOR USE AS CONVEYANCE PIPE.)

STEEL			ALUMINUM		
2-2/3 x 1/2 in. Corrugation	Gage Band		2-2/3 x 1/2 in. Corrugation	Gage Band	
Pipe Diameter (Inches)			Pipe Diameter (Inches)		
12 - 54	16	12"	12 - 27	16	12"

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL MANHOLE, INLET, AND CATCH BASIN FRAMES AND GRATES JUST PRIOR TO POURING OF CURBS AND PAVING.
- YARD BASINS WITH MULTIPLE CONNECTIONS SHALL EITHER HAVE MULTIPLE KNOCKOUTS OR BE CORE-DRILLED. BROKEN BASINS SHALL NOT BE ACCEPTED.
- THE SIDES OF THE DETENTION POND SHALL BE SEEDED WITH A SUITABLE GRASS MIXTURE DOWN TO THE PERMANENT WATER SURFACE ELEVATION.

SITE GRADING AND T.E.S.C. NOTES

- EROSION AND SEDIMENTATION CONTROL SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF SDC SECTION 30.63. NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEARING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER ARE METRON AND ASSOCIATES AT (360) 435-3777.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL BMP'S SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LAND CLEARING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND POTENTIAL FOR ON-SITE EROSION HAS PASSED. SEDIMENT LADEN WATERS SHALL NOT ENTER THE NATURAL DRAINAGE SYSTEM.
- THE DEVELOPER/ENGINEER IS RESPONSIBLE FOR THE WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM ESTABLISHED BY THE ENGINEER. THE PROJECT ENGINEER'S NAME AND PHONE NUMBER ARE: PEAK ENGINEERING, INC. @ (360) 658-6986.
- ALL SITE WORK MUST COMPLY TO CHAPTER 30.10 OF THE UNIFORM BUILDING CODE AND TITLES 30.63A AND 30.63B OF THE SNOHOMISH COUNTY CODE (LATEST EDITIONS).
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARDS.
- IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT ARE TO FOLLOW COUNTY SPECIFICATIONS AND TO BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOILS MECHANICS.
- STOCKPILES ARE TO BE LOCATED SUCH THAT SEDIMENT WILL NOT LEAVE SITE. TEMPORARY COVER (BMP'S) SHALL CONSIST OF HYDROSEEDING, MULCHING, OR COVERING DISTURBED AREAS AND STOCK PILES WITH PLASTIC SHEETING.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST.
- A GEOTECHNICAL CONSULTANT SHALL PROVIDE TESTING OF ALL FILLS AND SHALL SEND THE RESULTS TO SNOHOMISH COUNTY. SAID CONSULTANT SHALL CERTIFY THAT ALL GRADING ACTIVITIES WERE DONE UNDER HIS/HER DIRECTION.
- THE SURFACE OF ALL SLOPES SHALL BE COMPACTED. THIS MAY BE ACCOMPLISHED BY OVER-BUILDING THE SLOPES, THEN CUTTING BACK TO FINAL GRADES, OR BY RUNNING THE COMPACTOR OVER THE SLOPE AS EACH FILL LIFT IS BEING PLACED. ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORKING DAY.
- EARTH QUANTITIES (CUTS & FILLS) SHOWN ON PLANS ARE ESTIMATES ONLY AND ARE NOT ADJUSTED FOR EXPANSION OR COMPACTION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ACTUAL QUANTITIES AS REQUIRED.
- AREAS TO RECEIVE FILL SHALL BE PREPARED BY REMOVING UNSUITABLE MATERIAL SUCH AS CONCRETE SLABS, TREE STUMPS, BRUSH, AND TRASH.
- FILL MATERIALS SHALL BE AS SPECIFIED IN GENERAL NOTE 1, UNLESS SHOWN OTHERWISE ON PLANS.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

- 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.
- AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK.
- A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:

GRAB TENSILE STRENGTH (ASTM D4751)	200 PSI MIN.
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAX.
MULLEN BURST STRENGTH (ASTM D3786-80a)	400 PSI MIN.
AOS (ASTM D4751)	20-45 (U.S. STANDARD SIEVE SIZE)

- ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 12 INCHES THICK. IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS AREA. THE LENGTH OF THE ENTRANCE MUST BE AT LEAST 30 FEET.
- WASHING: IF CONDITIONS ON THE SITE ARE SUCH THAT MOST OF THE MUD IS NOT REMOVED FROM VEHICULAR TIRES BY CONTACT WITH THE GRAVEL, THEN THE TIRES MUST BE WASHED BEFORE VEHICLES ENTER THE PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS. PUBLICS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT 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.

PERMANENT COVER BMP (HYDROSEEDING GENERAL NOTES)

- CONSTRUCTION ACCEPTANCE: WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND TITLE 30.63, SNOHOMISH COUNTY DRAINAGE ORDINANCE.
- ALL DISTURBED AREAS SUCH AS DETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDED WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY SNOHOMISH COUNTY.
- PREPARATION OF SURFACE: ALL AREAS TO BE SEEDER SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERSISTENT AND LEGUME) WILL BE APPLIED. (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER. HYDROSEED REQUIRED.
- FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 lb. PER 1,100 SQUARE FEET) OR EQUIVALENT.

MAINTENANCE OF SILTATION BARRIERS

- SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS, END RUNS AND UNDERCUTTING BENEATH BARRIERS. NECESSARY REPAIRS TO BARRIERS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDER.

BMP NOTES:

- COVER PRACTICES: THE EXISTING VEGETATION SHOULD BE LEFT UNDISTURBED WHERE POSSIBLE TO LIMIT EROSION. DISTURBED AREAS SHALL BE COVERED WITH MULCH AND/OR MATTING. STOCKPILES OR SLOPES STEEPER THAN 2:1 SHALL BE COVERED WITH PLASTIC SHEETING HELD IN PLACE WITH SAND BAGS. STRUCTURAL PRACTICES: SILT FENCES AROUND THE PERIMETER WILL PREVENT SEDIMENT LADEN WATER FROM LEAVING THE SITE.

STAND PIPE AND SEDIMENT POND MAINTENANCE

- THE EMBANKMENT OF THE BASIN SHOULD BE CHECKED REGULARLY TO INSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE EMERGENCY SPILLWAY SHOULD BE CHECKED REGULARLY TO INSURE THAT ITS LINING IS WELL ESTABLISHED AND EROSION-RESISTANT. THE SILTATION BASIN SHOULD BE CHECKED AFTER EACH RUNOFF-PRODUCING RAINFALL FOR SEDIMENT CLEAN OUT. WHEN THE SEDIMENT REACHES THE CLEAN OUT LEVEL, IT SHALL BE REMOVED AND PROPERLY DISPOSED.

ABBREVIATIONS TABLE

(A/P)	= ANGLE POINT	(MSE)	= MIN. CRAM. SPACE ELEV.
(BC)	= BOTTOM OF CURB-F/L	(OWS)	= OIL WATER SEPARATOR
(BW)	= BOTTOM OF WALL	(PC)	= POINT OF CURVATURE
(BO)	= BLOWOFF	(PI)	= POINT OF INTERSECTION
(BRK)	= BREAK/GRADE BREAK	(PL)	= PROPERTY LINE
(CB)	= CATCH BASIN	(PP)	= POWER/UTILITY POLE
(CBU)	= COLLECTION BOX UNITS	(PT)	= POINT OF TANGENCY
(CE)	= CULVERT END	(PWT)	= PAVEMENT
(CL)	= CENTER LINE	(RE)	= RM ELEVATION
(CO)	= CLEAVOUT	(SD)	= STORM DRAIN
(CSBC)	= CR. SURF'G BASE COURSE	(SL)	= SOLID LOOKING LID
(CSTC)	= CR. SURF'G TOP COURSE	(SS)	= SANITARY SEWER
(CTR)	= CENTER	(SSMH)	= SEWER MANHOLE
(DIP)	= DUCTILE IRON PIPE	(STRCTR)	= STRUCTURE
(DRNG)	= DRAINAGE	(TBR)	= TO BE REMOVED
(EL)	= ELEVATION	(TC)	= TOP OF CURB
(EOA)	= EDGE OF ASPHALT	(TCL)	= THRU CURB INLET
(EOG)	= EDGE OF GRAVEL	(TOB)	= TOP OF BANK
(ESMT)	= EASEMENT	(TW)	= TOP OF WALL
(EZ)	= EXISTING	(TYP)	= TYPICAL
(G/L)	= GUTTER LINE OF CURB	(TY-X)	= TYPE-CB/ANH
(GR)	= GRADE	(TY-1)	= TYPE I CB
(GRA)	= GRAVEL	(YD)	= YARD DRAIN
(FH)	= FIRE HYDRANT	(VG)	= VAINED GRATE
(FCC)	= FACE OF CURB	(W)	= WATER/WATER MAIN
(I)	= INVERT ELEVATION	(WCR)	= WHEEL CHAIR RAMP
(INT)	= INTERSECTION	(WM)	= WATER METER
(LL)	= LOT LINE	(WV)	= WATER VALVE
(MB)	= MAILBOX	(Y/A)	= 1/parts DELTA

LEGEND

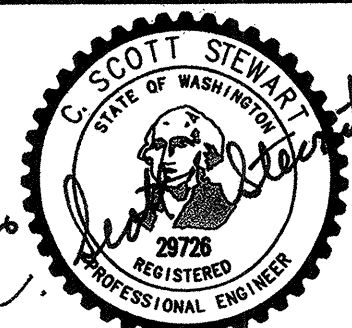
EXISTING	DESCRIPTION	PROPOSED
-----	BLDG SETBACK LINE (BSRL)	-----
○	BLOW-OFF (BO)	○
⊖	CATCH BASIN (Ty-1)	⊖
⊖	CATCH BASIN (Ty-2)	⊖
⊖	CASE MONUMENT	⊖
⊖	CONCRETE MON	⊖
-----	CULVERTS (CE=CULV END)	-----
-----	DRAINAGE DITCH/SWALE	-----
-----	DRAINAGE FLOW PATTERNS	-----
-----	D/W CURBOUT	-----
-----	EASEMENTS (ESMT)	-----
-----	EDGE PAVEMENT (EOA)	-----
⊖	FIRE HYDRANT (FH)	⊖
-----	LOT LINE (L/L)	-----
⊖	MAILBOXES (MB, CBU)	⊖
-----	PROPERTY LINE (P/L)	-----
-----	RIGHT OF WAY (R/W)	-----
-----	ROAD CENTER (CTR) LINE	-----
○	SANITARY SEWER MANHOLE	○
-----	SECTION CORNER	-----
-----	SEWER STUBOUT	-----
-----	STORM PIPE (SD)	-----
-----	STORM STUBOUT	-----
-----	UTILITY POLE (PP, UP)	-----
-----	WATER LINE	-----
-----	WATER SERVICE (WS)	-----
-----	WATER VALVE (WV)	-----
-----	WHEEL CHAIR RAMP (WCR)	-----
○	YARD BASIN (YB)	○

DATE	REVISION/ISSUED
11/14/03	ISSUED

Exhibit Number: 4 D
PFN: 03-109825 SD



1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 / FAX: (360) 658-7826



EXPIRES 07/16/2005
DATE: 11/10/03

SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:

HEAD BILMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 289
WOODINVILLE, WA 98072
PH: 425-486-1252
JOB #03035

DATUM: NGVD (1929 NATIONAL GEODETIC VERTICAL DATUM)

BENCH: SNOHOMISH COUNTY BENCHMARK 393.789
CHISEL 1/4" IN SW COR. BOLT OF TRAFFIC SIGNAL BASE, NW QUADRANT INTX. 132ND ST. S.E. & SEATTLE HILL RD.
ELEVATION= 437.25
TBM-A: 1/4" IN SW COR. BOLT FIRE HYDRANT, NE QUADRANT INTX. 138TH ST. S.E. & 42ND AVE. S.E.
ELEVATION= 433.52
TBM-B: CHISELED SQUARE IN SE COR. POWER VAULT, SW COR. SITE.
ELEVATION= 415.67

CALL 48 HOURS BEFORE YOU DIG
1-800-424-5555

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

PFN:
APPLETREE NORTH
TARGETED DRAINAGE PLAN
NOTES & DETAILS

PROJECT NO.

03496

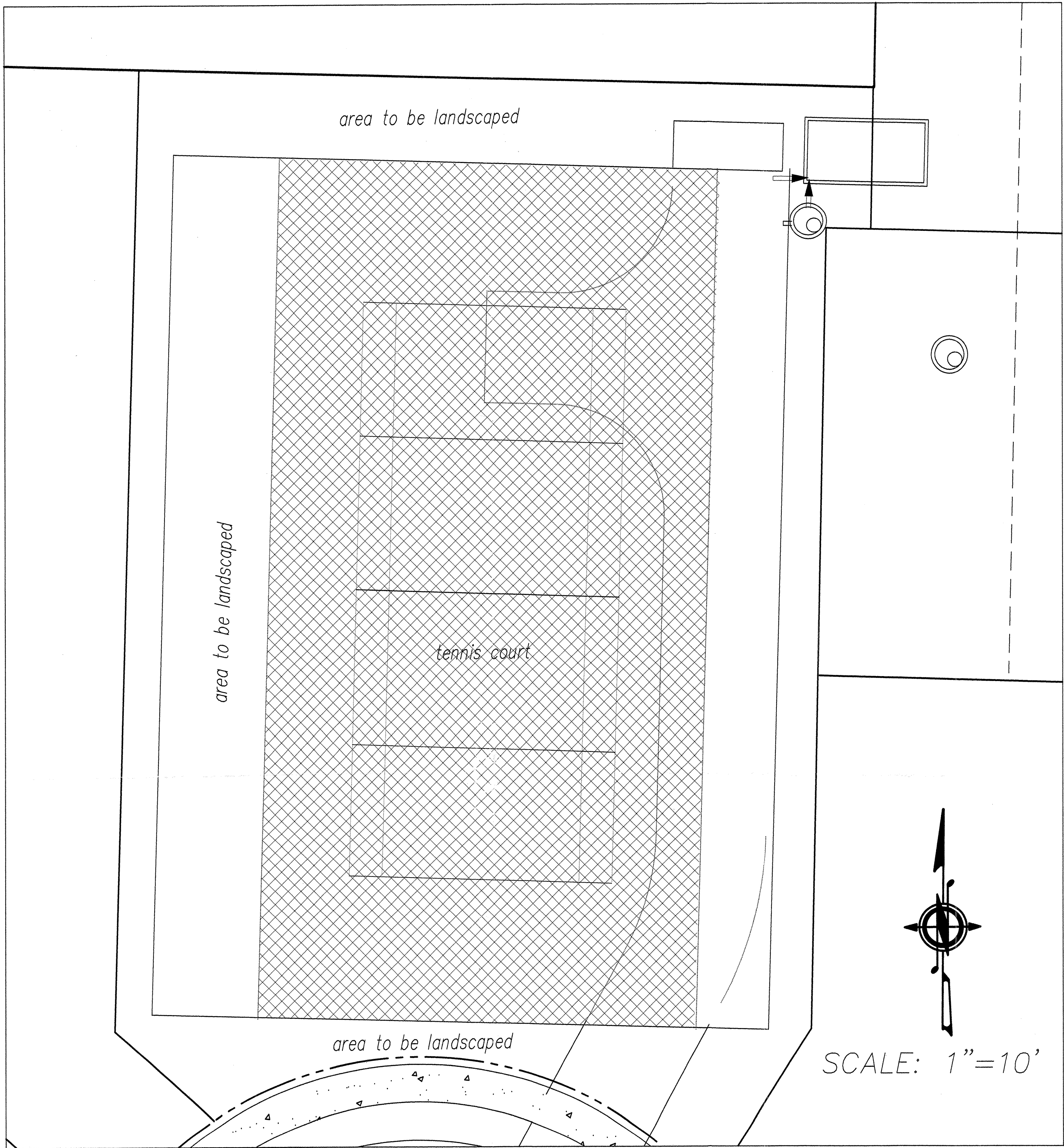
DWG

P4

OF 4

HDEV-2148

NW 1/4 33 28 5



TRACT 999

APPLETREE NORTH GENERAL PROJECT INFORMATION

PROJECT INFORMATION

APPLICANT/OWNER
GORDON REYKDAL
8908 EASTVIEW AVE
EVERETT, WA 98208
425-337-2429

CONTACT
LAUREY TOBIASON
TOBIASON & CO., INC.
506 NE 73RD ST. SUITE 1A
SEATTLE, WA 98115
206-522-1024

SURVEYOR
HEAD GILMAN & ASSOCIATES
PO BOX 289
WOODINVILLE WA 98072
425-486-1252

ENGINEER
PEAK ENGINEERING INC.
1720 GROVE STREET
MARYSVILLE, WA 98270
360-658-6986

OWNERS OF RECORD
STEVEN & PEGGY LEFLEY
4032 138TH SE
SNOHOMISH, WA 98290
425-338-1458

JAMES LOMAX
13928 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-316-8653

GARY & KATHRYN FONTES
13904 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-338-4878

BABETTE JUECKE
13930 SEATTLE HILL ROAD
SNOHOMISH, WA 98290

SITE DATA
EXISTING ZONING: R-9600
PROPOSED ZONING: R-7200
TOTAL SITE AREA: 375,842 SF
PROPOSED LOTS: 33
LOTS PER ACRE: 3.8
AVERAGE LOT SIZE: 8,904 SF
SMALLEST PROPOSED LOT: 6,000 SF
DUPLEX PROPOSED: NONE
WATER DISTRICT: SILVER LAKE WATER DISTRICT
SEWAGE DISPOSAL: SILVER LAKE WATER DISTRICT
SCHOOL DISTRICT: EVERETT
FIRE DISTRICT: FPD 11

OPEN SPACE DATA
TOTAL: 13,200 SF
PERCENT OF SITE: 3.5

SLOPE DATA
0-15% SLOPE: 375,842 SF
15-20% SLOPE: 0 SF
20-25% SLOPE: 0 SF
25-33% SLOPE: 0 SF
33% SLOPE: 0 SF

ROAD DATA
LINEAGE: 12,435 LF
ACREAGE: 1.57 (INCL 10' DEDICATION)
PERCENT OF SITE: 18 (INCL 10' DEDICATION)

TAX ASSESSOR NO.
280533-002-031-00
280533-002-034-00
280533-002-036-00
280533-002-039-00
280533-002-009-00

SITE ADDRESS
13904 SEATTLE HILL ROAD SE, 13928
SEATTLE HILL ROAD SE, 13930
SEATTLE HILL ROAD, 4120 138TH
STREET SE & 4032 138TH STREET
SE, SNOHOMISH, WA 98290

CLEARING LIMITS
ENTIRE SITE, WITH EXCEPTION OF NGPA
WILL BE CLEARED.
CUT/FILL CALCULATIONS/ANALYSIS
8000 CY CUT
8000 CY FILL
FILL MATERIAL WILL BE FROM ON SITE
EXCESS CUT MATERIAL WILL BE
LEGALLY DISPOSED OFFSITE

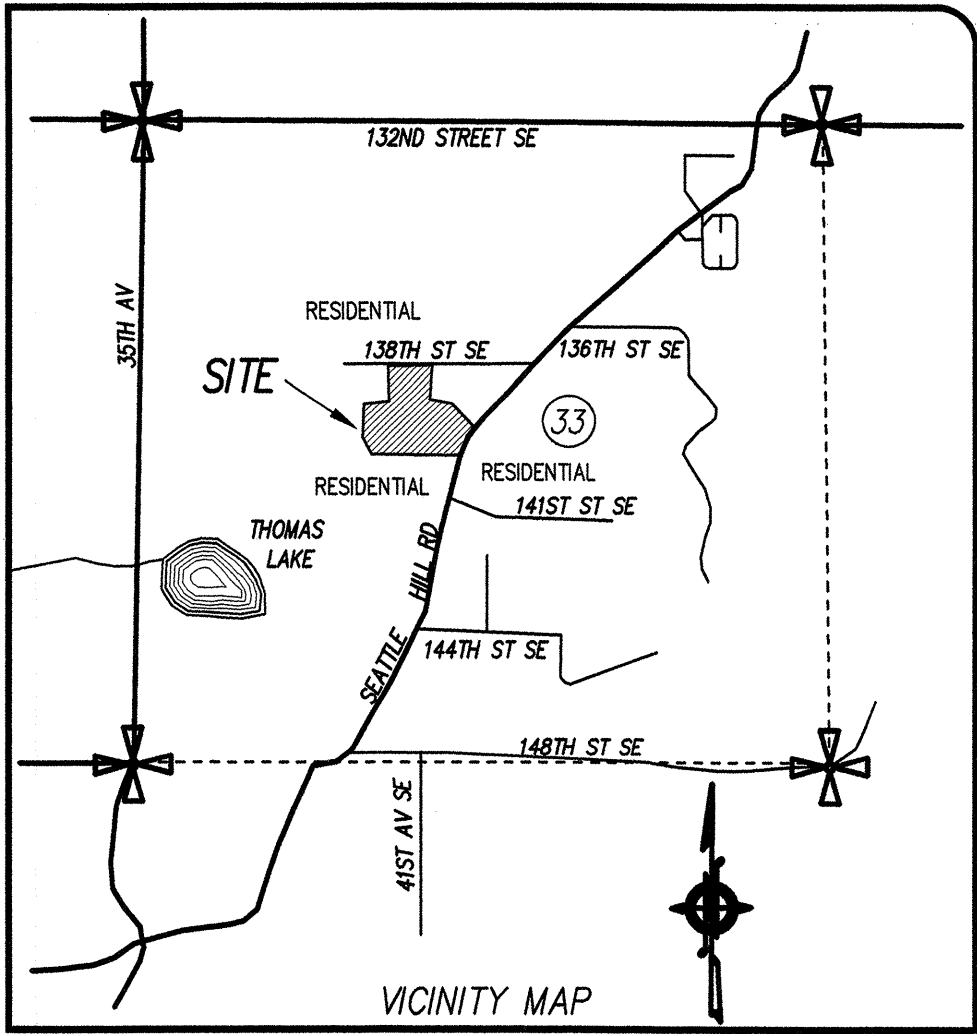
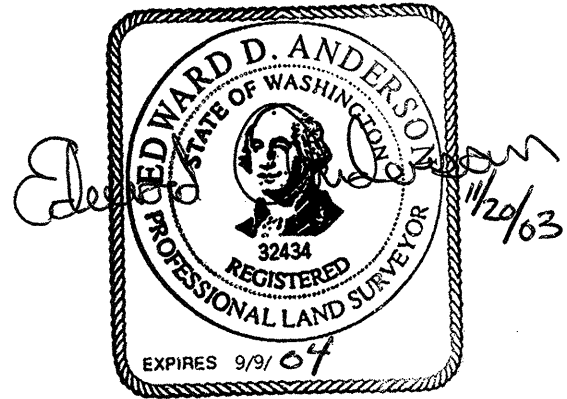
MIN. NET DENSITY CALCULATIONS

GROSS AREA:	375,842 SF
LESS ROADS:	68,245 SF
LESS CRITICAL AREAS & BUFFERS:	12,611 SF
LESS DETENTION AREAS/BID-SWALES:	0
	294,786 SF

DIV. BY 43,560 = 6.77 AC.
33 LOTS DIV. BY 6.77 ACRES = 4.87 DU PER ACRE

LOT SIZE AVERAGE CALCULATIONS

TOTAL ALL LOTS:	293,594 SF
PLUS DETENTION TRACT 999	13,438 SF
NET AREA 307,032 SF DIV. BY 33 LOTS =	9,304 SF



LEGAL DESCRIPTION

PARCEL A:

LOT 2 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 8401180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL B:

LOT 3 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 8401180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL C:

LOT 4 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 8401180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL D:

LOT 3 OF SHORT PLAT Z48706316SP RECORDED UNDER RECORDING NUMBER 8805090123, BEING A PORTION OF LOT 1 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL E:

LOT 4 OF SHORT PLAT Z48706316SP RECORDED UNDER RECORDING NUMBER 8805090123, BEING A PORTION OF LOT 1 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

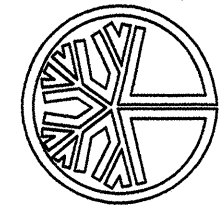
MATTERS OF RECORD

- (THE FOLLOWING MATTERS OF RECORD CORRESPOND TO SCHEDULE C OF AMENDED SECOND REPORT SUBDIVISION GUARANTEE ISSUED BY PACIFIC NORTHWEST TITLE CO. OF SNOHOMISH COUNTY, ORDER NO. 150267-1, DATED OCTOBER 28, 2003).
- SUBJECT TO RIGHT TO MAKE NECESSARY SLOPES FOR CUTS AND FILLS UPON PROPERTY HEREIN DESCRIBED AS GRANTED IN DEED UNDER RECORDING NO. 1626885. (PARCEL E)
 - SUBJECT TO RIGHT TO MAKE NECESSARY SLOPES FOR CUTS AND FILLS UPON PROPERTY HEREIN DESCRIBED AS GRANTED IN DEED UNDER RECORDING NO. 1626886.
 - SUBJECT TO EASEMENT AND THE TERMS AND CONDITIONS THEREOF TO P.U.D. NO. 1 OF SNOHOMISH COUNTY FOR ELECTRIC TRANSMISSION AND FOR ELECTRIC TRANSMISSION AND DISTRIBUTION LINE, RECORDED UNDER RECORDING NO. 1632603, THE DESCRIPTION CONTAINED THEREIN IS NOT SUFFICIENT TO DETERMINE ITS EXACT LOCATION WITHIN THE PROPERTY HEREIN DESCRIBED.
 - SUBJECT TO RIGHT TO MAKE NECESSARY SLOPES FOR CUTS AND FILLS UPON PROPERTY HEREIN DESCRIBED AS GRANTED IN DEED UNDER RECORDING NO. 2092884.
 - SUBJECT TO EASEMENT AND THE TERMS AND CONDITIONS THEREOF TO P.U.D. NO. 1 OF SNOHOMISH COUNTY FOR ELECTRIC DISTRIBUTION LINE, RECORDED UNDER RECORDING NO. 2374052, THE DESCRIPTION CONTAINED THEREIN IS NOT SUFFICIENT TO DETERMINE ITS EXACT LOCATION WITHIN THE PROPERTY HEREIN DESCRIBED.
 - SUBJECT TO COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS CONTAINED IN SHORT PLAT RECORDED UNDER RECORDING NO. 8401180232.
 - SUBJECT TO CONDITIONS, COVENANTS AND RESTRICTIONS IN DECLARATION OF RESTRICTIONS RECORDED UNDER RECORDING NO. 8407230041.
 - SUBJECT TO COVENANTS, CONDITIONS, RESTRICTIONS AND EASEMENTS CONTAINED IN SHORT PLAT RECORDED UNDER RECORDING NO. 8805090127.
 - SUBJECT TO EASEMENT AND THE TERMS AND CONDITIONS THEREOF FOR DRAINAGE PURPOSES, RECORDED UNDER RECORDING NO. 931100077.

APPLETREE NORTH PRELIMINARY PLAT/REZONE

DEVELOPER: GORDON REYKDAL
8908 EASTVIEW AVE., EVERETT WA. 98208 425-337-2429

STATE OF WASHINGTON
REGISTERED
LANDSCAPE ARCHITECT



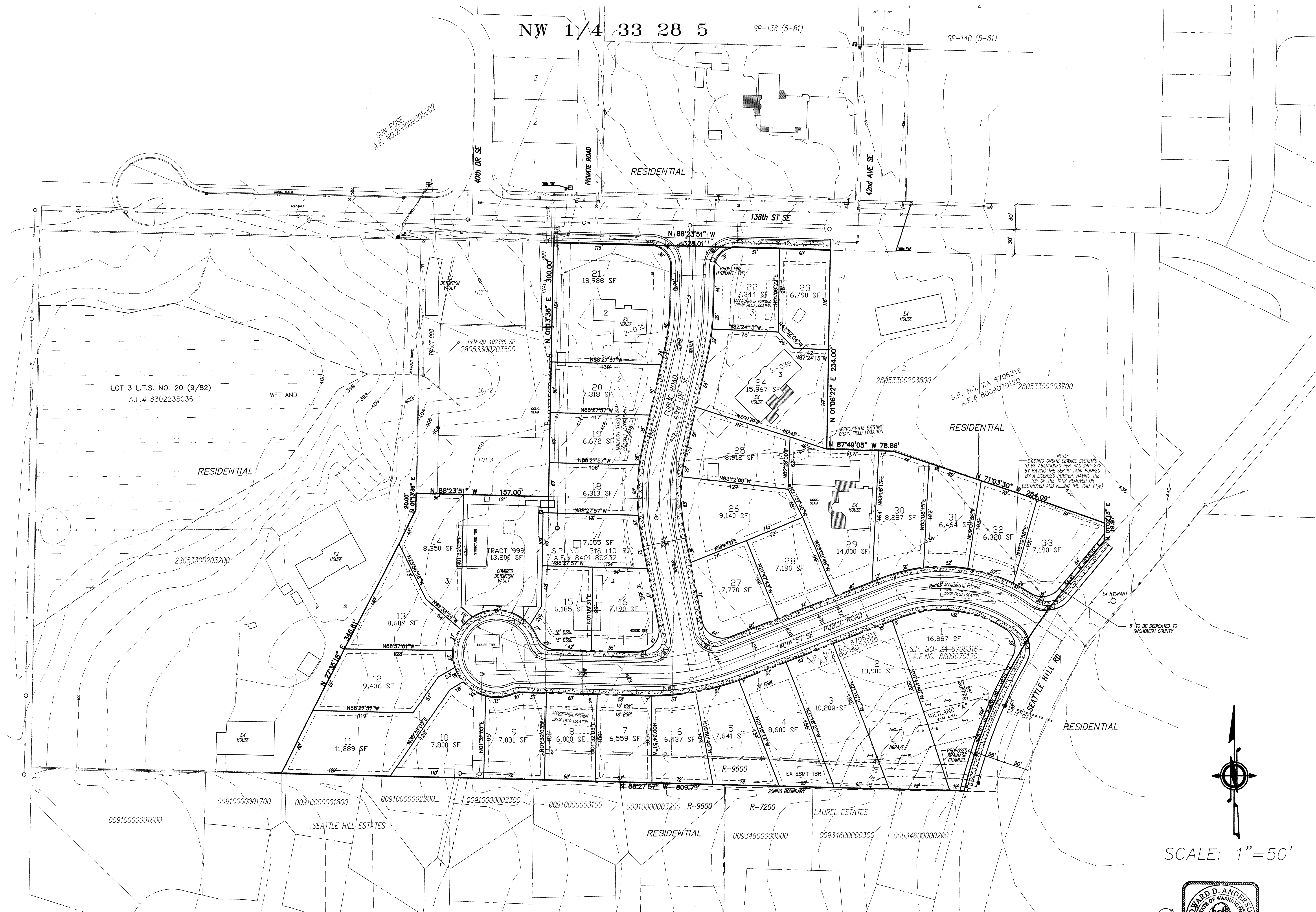
TOBIASON & COMPANY, Inc.
Land Use Consulting: Landscape Architecture

506 NE 73RD ST SUITE 1A
SEATTLE, WA 98115
(206) 522-1024
(206) 622-1049
Laurye@tobiasonandco.com

Sheet

P-1

HDEV - 2149



MERIDIAN
PLAT OF BLUEGRASS MEADOWS, AUDITOR'S FILE NO. 200101315002,
RECORDS OF SNOHOMISH COUNTY, WASHINGTON.

DATUM
NGVD 29

EQUIPMENT & PROCEDURES
A TOPCON 5" ELECTRONIC TOTAL STATION WAS USED FOR THIS FIELD
TRAVERSE SURVEY. ACCURACY MEETS OR EXCEEDS W.A.C. 332-130-090.

BENCHMARKS

ORIGINAL BM: SNOHOMISH COUNTY BENCHMARK 393/769
CHISELED "X" IN SE BOLT OF TRAFFIC SIGNAL BASE, NW
QUADRANT INTX. 132ND ST. S.E. & SEATTLE HILL RD
ELEVATION = 437.22'

TBM-A: 138TH ST. S.E. & 42ND AVE. S.E.
ELEVATION = 433.52'

TBM-B: CHISELED SQUARE IN SE COR. POWER VAULT, SW COR. SITE.
ELEVATION = 415.91'

GENERAL NOTES

1. THE INFORMATION DEPICTED ON THIS MAP REPRESENTS THE RESULTS
OF A SURVEY MADE ON THE DATE INDICATED AND CAN ONLY BE
CONSIDERED AS INDICATING THE GENERAL CONDITION EXISTING AT
THAT TIME.

2. UNDERGROUND UTILITIES WERE LOCATED BASED ON THE SURFACE
EVIDENCE OF UTILITIES (I.E. PAINT MARKS, SAW CUTS IN PAVEMENT,
COVERS, LIDS ETC.) THE CONTRACTOR SHALL VERIFY THE EXACT
LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES PRIOR TO
CONSTRUCTION.

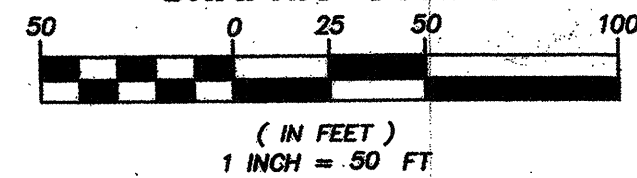
SCALE: 1"=50'

APPLETREE NORTH PRELIMINARY PLAT/REZONE			
DEVELOPER: GORDON REYKDAL 8908 EASTVIEW AVE., EVERETT WA. 98208 425-337-2429			
STATE OF WASHINGTON REGISTERED LANDSCAPE ARCHITECT LAUREY TOBIASON CERTIFICATE NO. 305			
TOBIASON & COMPANY, Inc. Land Use Consulting - Landscape Architecture 506 NE 793RD ST SUITE 1A (206) 522-1024 SEATTLE, WA 98115 (206) 522-1049 Laurey@TobiasonandCo.com			
job no.	drawn	checked	date
			11-20-03
			no.
			revision
			date

Sheet
P-2

HDEV-2150

GRAPHIC SCALE



DATUM: NAD83 (1983 NATIONAL GEODETIC DATUM)

BENCH: SNOHOMISH COUNTY BENCHMARK 333/789

CHISEL "A" IN SE COR. OF 139th ST. & SEATTLE HILL RD.

QUADRANT INT. 139th ST. SE & SEATTLE HILL RD.

ELEVATION= 437.22

ADD 3.6 TO CONVERT TO NAVD 83

CHISEL "A" IN SW COR. BOLT ONE (HORN), NE QUADRANT INT.

139th ST. SE & 42nd AVE. SE.

ELEVATION= 433.52

CHISEL SQUARE IN SE COR. POWER VAULT, SW COR. SITE

ELEVATION= 455.91

CURVE	LENGTH	RADIUS	DELTA
C1	50.89	250.00	Δ 11°11'08"
C2	104.80	250.00	Δ 23°58'22"
C3	106.07	274.00	Δ 22°46'30"
C4	160.10	185.00	Δ 55°35'41"

SUN ROSE
A.F. NO. 200009205002

NOTES:

1. ALL NATIVE GROWTH PROTECTION AREAS SHALL BE LEFT PERMANENTLY UNDISTURBED IN A SUBSTANTIALLY NATURAL STATE. NO CLEARING, GRADING, FILLING, BUILDING CONSTRUCTION OR PLACEMENT, OR ROAD CONSTRUCTION OF ANY KIND SHALL OCCUR, EXCEPT REMOVAL OF HAZARDOUS TREES. THE ACTIVITIES AS SET FORTH IN SCC 32.10.10(2)(a), (c), (d), AND (e) ARE ALLOWED WHEN APPROVED BY THE COUNTY.
2. NO LOT SHALL HAVE DIRECT ACCESS ONTO SEATTLE HILL ROAD.

AS-BUILT NOTE:

LOT DIMENSIONS AND AREAS ARE APPROXIMATE. REFER TO RECORDED SHEET PLAT FOR ACTUAL VALUES.

PSDE = PRIVATE STORM DRAINAGE EASEMENT.

LEGAL DESCRIPTION:

PARCEL A:
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PARCEL B:
LOT 3 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 8401180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL C:
LOT 4 OF SHORT PLAT 316 (10-83) RECORDED UNDER RECORDING NUMBER 8401180232, BEING A PORTION OF LOT 2 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL D:
LOT 3 OF SHORT PLAT 24700391SP RECORDED UNDER RECORDING NUMBER 8805090123, BEING A PORTION OF LOT 1 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

PARCEL E:
LOT 4 OF SHORT PLAT 24700391SP RECORDED UNDER RECORDING NUMBER 8805090123, BEING A PORTION OF LOT 1 AS DESIGNATED ON THAT CERTAIN SURVEY RECORDED IN VOLUME 14 OF SURVEYS, PAGE 53 UNDER RECORDING NUMBER 8302235036, RECORDS OF SNOHOMISH COUNTY, WASHINGTON, LOCATED IN THE SOUTH HALF OF THE SOUTHEAST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. IN SNOHOMISH COUNTY, WASHINGTON.

SITE DATA:

EXISTING ZONING: R-9600
PROPOSED ZONING: R-7200
TOTAL SITE AREA: 375,842 SF, 8.63ac
WATER DISTRICT: SILVERLAKE WATER DISTRICT
SEWER DISTRICT: SILVERLAKE WATER DISTRICT
SCHOOL DISTRICT: EVERETT
FIRE DISTRICT: FPD 11

OWNERS OF RECORD:

STEVEN & PEGGY LERLEY
1304 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-338-1458
JAMES LOMAX
13028 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-316-8853
GARY & KATHRYN FONTES
1304 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-338-4878
BARBETTE JUECKE
13030 SEATTLE HILL ROAD
SNOHOMISH, WA 98290
425-316-8853

SITE ADDRESS'S:

13004 SEATTLE HILL ROAD SE, 13028 SEATTLE HILL ROAD SE,
13030 SEATTLE HILL ROAD SE, 4120 139th STREET SE &
4032 139th STREET SE, SNOHOMISH, WA 98290

TAX PARCEL NO.S:

28053300200000 & 280533002003400
280533002003100 & 280533002003800
280533002003600

RECEIVED

JUL 14 2004

NPDES NOTE:

ALL SITE WORK SHALL COMPLY WITH THE PROVISIONS OF THE LAND USE DIV.
PERMIT NO. 503005704 ISSUED FOR THE PROJECT DATED JUNE 7, 2004.

DRAWING INDEX:

- GENERAL SITE PLAN
- EXISTING CONDITIONS, CLEARING & SWPP PLAN
- SWPP NOTES & DETAILS
- ROAD, GRADING & DRAINAGE PLAN
- 41st DR SE & 139th PL SE ROAD PROFILES / DETAILS
- 139th ST SE & SEATTLE HILL ROAD PROFILES / DETAILS
- VAULT PLAN, SECTIONS & DETAILS
- CONSTRUCTION NOTES & DETAILS
- VAULT FOUNDATION PLAN & DETAILS
- VAULT LID PLAN AND DETAILS
- STRUCTURAL NOTES: WALL SECTIONS & DETAILS
- SANITARY SEWER PLAN
- SANITARY SEWER PLAN & PROFILES
- WATER PLAN
- CRITICAL AREA STUDY STREAM CHANNEL RESTORATION PLAN
- CRITICAL AREA STUDY STREAM CHANNEL RESTORATION PLAN
- LANDSCAPE PLANS
- LANDSCAPE PLANS

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES APPROVED FOR CONSTRUCTION

BY: *[Signature]* FOR RANDOLPH R. SMITH, P.E., P.L.S.

R/W PERMIT NO: 04-114872

DATE	REVISION/ISSUED
4/1/04	ISSUED
6/16/04	PER COUNTY REVIEW
7/13/04	PER COUNTY REVIEW
7/13/05	AS-BUILT
8/22/05	REVISED PER SNO CO IST AS REVIEW

PEAK ENGINEERING INC.

1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 FAX: (360) 658-7826



SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:

HEAD OLIMAH & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 280
WOODINVILLE, WA 98072
PH: 425-486-1252
FAX: 425-486-5108
425 403055

APPLICANT

GORDON REYNOL
8808 EASTVIEW AVENUE
EVERETT, WA 98208
425-337-2429

PLANNER

TORRISON & CO. INC.
506 N.E. 73rd ST., SUITE 1A
SEATTLE, WA 98115
(206) 822-1024
ATtn: LAUREY TORRISON

AS-BUILT DECLARATION

WE HEREBY DECLARE THAT ROAD AND STORM DRAINAGE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE RECORD DRAWINGS.

BY: *[Signature]* DATE: 8-25-05
PROJECT ENGINEER
BY: *[Signature]* DATE: 8/25/05
PLAT DEVELOPER / OWNER

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5856
THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

PFN: 03-109825 AS-BUILT
APPLETREE NORTH
GENERAL SITE PLAN

PROJECT NO.
03496

DWG
C1
OF 8

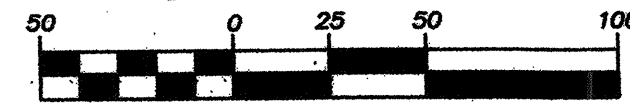
AS-BUILTS APPLETREE NORTH HDEV-2160

APPROVED AS-BUILTS

PEAK

2nd AS-Built
PP OKAY for JC
PDS Draw OKAY for JC
JULIAN TO

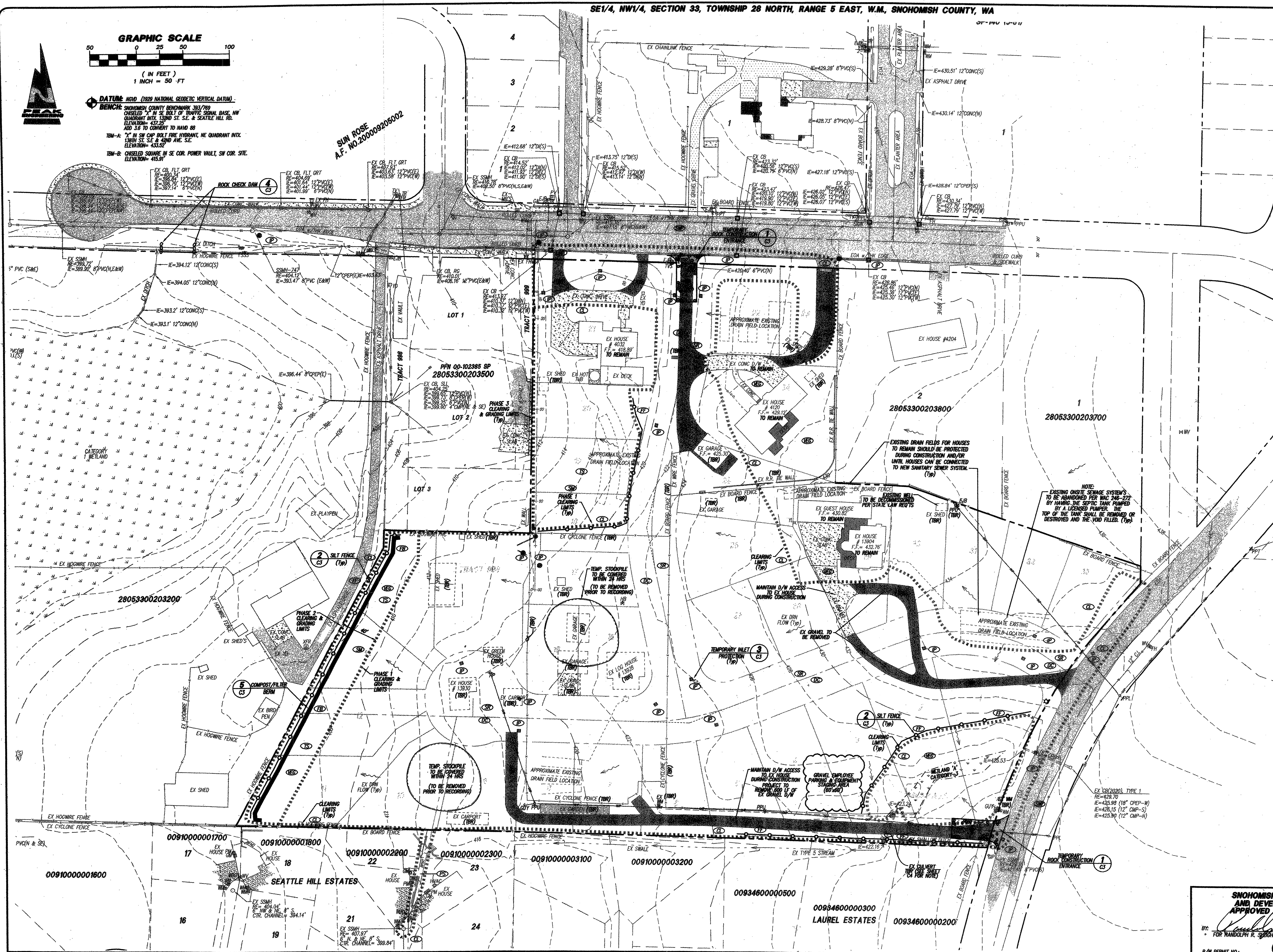
GRAPHIC SCALE

(IN FEET)
1 INCH = 50 FT

DATE: NOV 1989 NATIONAL GEODETIC DATUM

BENCH: SNOHOMSH COUNTY BENCHMARK 363769
CHISELED "X" IN SE COR. OF TOWNSHIP 28 NORTH, RANGE 5 EAST, W.M. SNOHOMSH COUNTY, WA
QUADRANT INTX. 1390 ST. SE. & SEATTLE HILL RD.
ELEVATION = 433.25
ADD 3.6 TO CONVERT TO NAVD 88
TBM-A: "X" IN SW COR. BOLT FIRE HYDRANT, NE QUADRANT INTX.
1390 ST. SE. & 4000 AVE. SE.
ELEVATION = 433.02
TBM-B: CHISELED SQUARE IN SE COR. POWER VAULT, SW COR. SITE.
ELEVATION = 415.91

SUN ROSE
A.P. NO. 20000920002



CONSTRUCTION SEQUENCE

THIS CONSTRUCTION SEQUENCE IS TO BE USED AS A GUIDELINE. CONDITIONS MAY REQUIRE CHANGES IN TIMING OF WORK. CHANGES SHALL BE DISCUSSED WITH AND APPROVED BY INSPECTOR AND OWNER.

1. ARRANGE AND ATTEND PRE-CONSTRUCTION MEETING WITH THE COUNTY.
2. FLAG PROPERTY LINES AND CLEARING LIMITS AS INDICATED.
3. INSTALL SILT FENCES, FILTER BERM AND TEMPORARY CONSTRUCTION ENTRANCES PER PLAN.
4. CLEAR & GRUB TO PHASE 1 CLEARING LIMITS. LEAVING AS MUCH GROUND COVER AS POSSIBLE.
5. ROUGH GRADE ROAD.
6. CONSTRUCT DETENTION VAULT (FINAL VAULT TO FUNCTION AS TEMPORARY SEDIMENT VAULT) AND INSTALL ALL STORM, SEWER, & WATER IMPROVEMENTS.
7. CLEAR, GRUB & FILL PHASE 2. SEED AND COVER WITH STRAW MULCH.
8. CONSTRUCT ROAD.
9. STABILIZE DISTURBED LAND SURFACES.
10. ABANDON EXISTING DRAINFIELDS AFTER HOUSES ARE CONNECTED TO SANITARY SEWER.
11. CLEAR, GRUB AND FILL PHASE 3. SEED AND COVER WITH STRAW MULCH.
12. REMOVE REMAINING SWPP STRUCTURES AFTER SITE HAS BEEN STABILIZED AND APPROVED BY THE COUNTY DEVELOPMENT INSPECTOR.
13. CLEAN STORM DRAINAGE SYSTEM, REMOVED SEDIMENTS FROM VAULT, INSTALL STORM FILTER(TM) CARTRIDGES, AND PLACE INTO OPERATION.

TEMPORARY EROSION CONTROL NOTE:

TEMPORARY EROSION CONTROL MEASURES ON THIS PLAN ARE INTENDED AS A GUIDE. ADDITIONAL BMP'S MAY BE REQUIRED FOR THIS DEVELOPMENT AS SITE & WEATHER CONDITIONS CHANGE ON SITE. THE CONTRACTOR/DEVELOPER SHALL COORDINATE WITH THE SITE INSPECTOR & THE PROJECT ENGINEER AS NEEDED FOR EROSION CONTROL RECOMMENDATIONS.

EROSION CONTROL CONCEPT

ALL DISTURBED AREAS SHALL BE PREPARED AND MAINTAINED TO CONTROL EROSION. LEAVE VEGETATIVE BUFFER AROUND PERIMETER OF SITE AND EXISTING GROUND COVER AS LONG AS POSSIBLE. SEE SHEET C3 OF 8 FOR SWPPP NOTES.

RISK ASSESSMENT: HIGH

SWPPP LEGEND

- (CS) STABILIZED CONSTRUCTION ENTRANCE
- (CL) CLEARING LIMITS
- (CR) CONSTRUCTION ROAD STABILIZATION
- (DC) DUST CONTROL
- (FB) FILTER BERM
- (FP) FILTER (SILT) FENCE
- (PI) STORM DRAIN INLET PROTECTION
- (SM) STRAW MULCH
- (SR) SURFACE ROUGHENING (IF EXISTING VEGETATION HAS BEEN REMOVED)
- (SS) DAILY STREET SWEEPING
- (TS) TEMPORARY SEEDING
- (TV) PRESERVE NATURAL VEGETATION

SOIL TYPE:

ENTIRE SITE IS ALDERWOOD GRAVELLY LOAM

VEGETATIVE COVER:

LAHN & NATIVE LANDSCAPE WITH 2nd & 3rd GROWTH FOREST

PEAK ENGINEERING INC.

1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 FAX: (360) 658-7826



EXPIRES 07/16/2008
DATE: 6/14/09

SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:

MEAD OLMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 289
WOODVILLE, WA 98072
PH: 425-486-1252
FAX: 425-486-6108
JOB #03055

AS-BUILT DECLARATION

WE HEREBY DECLARE THAT ROAD AND STORM DRAINAGE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE RECORD DRAWINGS.

BY: *R.E. M.* 8-25-05
DATE: 8/25/05
BY: *E.A.* 8/25/05
DATE: 8/25/05
PLAY DEVELOPER / OWNER

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555
THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

SNOHOMSH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

DATE: 7/12/04
FOR RANDOLPH R. SPOFF, P.E., P.L.S.

R/W PERMIT NO.: 04-114872

DATE	REVISION/ISSUED
4/1/04	ISSUED
6/18/04	PER COUNTY REVIEW
7/12/04	PER COUNTY REVIEW
7/13/05	AS-BUILT
8/22/05	REVISED PER SNO CO FOR REVIEW

PNF: 03-109825 AS-BUILT
APPLETREE NORTH
EXISTING CONDITIONS,
CLEARING & SWPP PLAN

PROJECT NO.
03496
DWG
C2
OF 8

SITE GRADING AND SWPPP NOTES

- EROSION AND SEDIMENTATION CONTROL SHALL COMPLY WITH THE MINIMUM REQUIREMENTS OF SSC SECTION TITLE 25. NONCOMPLIANCE WITH THE EROSION CONTROL REQUIREMENTS, WATER QUALITY REQUIREMENTS AND CLEANING LIMITS VIOLATIONS MAY RESULT IN REVOCATION OF PROJECT PERMITS, PLAN APPROVAL AND BOND FORECLOSURES.
- PRIOR TO ANY SITE CONSTRUCTION TO INCLUDE CLEARING/LOGGING OR GRADING THE SITE/LOT CLEARING LIMITS SHALL BE LOCATED AND FIELD IDENTIFIED BY THE PROJECT SURVEYOR AS REQUIRED BY THESE PLANS. THE PROJECT SURVEYOR'S NAME AND PHONE NUMBER ARE MEAD GLAMAN & ASSOCIATES AT (425) 486-1252.
- THE TEMPORARY EROSION/SEDIMENTATION CONTROL BMP'S SHALL BE CONSTRUCTED PRIOR TO ANY GRADING OR EXTENSIVE LOGGING IN ACCORDANCE WITH THE APPROVED TEMPORARY EROSION/SEDIMENTATION CONTROL PLAN. THESE FACILITIES MUST BE SATISFACTORILY MAINTAINED UNTIL CONSTRUCTION AND LANDSCAPING IS COMPLETED AND POTENTIAL FOR ON-SITE EROSION HAS PASSED. SEDIMENT LADEN WATERS SHALL NOT ENTER THE NATURAL DRAINAGE SYSTEM.
- THE DEVELOPER/ENGINEER IS RESPONSIBLE FOR THE WATER QUALITY AS DETERMINED BY THE MONITORING PROGRAM, ESTABLISHED BY THE ENGINEER. THE PROJECT ENGINEER'S NAME AND PHONE NUMBER ARE: PEAK ENGINEERING, INC. © (360) 658-6986.
- ALL SITE WORK MUST COMPLY TO CHAPTER 30.10 OF THE UNIFORM BUILDING CODE AND TITLES 30.634 AND 30.635 OF THE SNOHOMISH COUNTY CODE (LATEST EDITIONS).
- ALL EARTH WORK SHALL BE PERFORMED IN ACCORDANCE WITH COUNTY STANDARDS.
- IF CUT AND FILL SLOPES EXCEED A MAXIMUM OF TWO FEET HORIZONTAL TO ONE FOOT VERTICAL, A ROCK OR CONCRETE RETAINING WALL MAY BE REQUIRED. ALL ROCK RETAINING WALLS GREATER THAN FOUR (4) FEET IN HEIGHT ARE TO FOLLOW COUNTY SPECIFICATIONS AND TO BE DESIGNED AND CERTIFIED BY A CIVIL ENGINEER EXPERIENCED IN SOILS MECHANICS.
- STOCKPILES ARE TO BE LOCATED SUCH THAT SEDIMENT WILL NOT LEAVE SITE. TEMPORARY COVER (BMP'S) SHALL CONSIST OF HYDROSEEDING, MULCHING, OR COVERING DISTURBED AREAS AND STOCK PILES WITH PLASTIC SHEETING.
- ALL STRUCTURAL FILLS SHALL BE COMPACTED TO A MINIMUM OF 95% OF MAXIMUM DENSITY BY MODIFIED PROCTOR TEST. FIELD DATA TEST RESULTS WILL BE SUBMITTED WITH "AS-BUILT" PLANS.
- A GEOECONOMICAL CONSULTANT SHALL PROVIDE TESTING OF ALL STRUCTURAL FILLS AND SHALL SEND THE RESULTS TO SNOHOMISH COUNTY. SAID CONSULTANT SHALL CERTIFY THAT ALL GRADING ACTIVITIES WERE DONE UNDER HIS/HER DIRECTION.
- THE SURFACE OF ALL SLOPES SHALL BE COMPACTED. THIS MAY BE ACCOMPLISHED BY OVER-BUILDING THE SLOPES, THEN CUTTING BACK TO FINISH. GRASSES, OR BY RUNNING THE COMPACTOR OVER THE SLOPE AS EACH FILL LIFT IS BEING PLACED. ALL SLOPES SHALL BE COMPACTED BY THE END OF EACH WORKING DAY.
- EARTH QUANTITIES (CUTS & FILLS) SHOWN ON PLANS ARE ESTIMATES ONLY AND ARE NOT ADJUSTED FOR EXPANSION OR COMPACTION. THE CONTRACTOR IS RESPONSIBLE FOR VERIFICATION OF ACTUAL QUANTITIES AS REQUIRED.
- AREAS TO RECEIVE FILL SHALL BE PREPARED BY REMOVING UNSUITABLE MATERIAL SUCH AS CONCRETE SLABS, TREE STUMPS, BRUSH, AND TRASH.
- FILL MATERIALS SHALL BE AS SPECIFIED IN GENERAL NOTE 1, UNLESS SHOWN OTHERWISE ON PLANS.

TEMPORARY GRAVEL CONSTRUCTION ENTRANCE

- INSTALLATION: THE AREA OF THE ENTRANCE SHOULD BE CLEARED OF ALL VEGETATION, ROOTS, AND OTHER OBSTACLES. MATERIALS TO 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.
- AGGREGATE: 4" TO 6" CRUSHED BALLAST ROCK.
- A SEPARATION GEOTEXTILE SHALL BE PLACED UNDER THE SPALLS TO PREVENT FINE SEDIMENT FROM PUMPING UP INTO THE ROCK PAD. THE GEOTEXTILE SHALL MEET THE FOLLOWING STANDARDS:

GRAB TENSILE STRENGTH (ASTM D4751)	200 PSI MIN.
GRAB TENSILE ELONGATION (ASTM D4632)	30% MAX.
MULLEN BURST STRENGTH (ASTM D3786-80a)	400 PSI MIN.
AOS (ASTM D4751)	20-45 (U.S. STANDARD SIEVE SIZE)

- ENTRANCE DIMENSIONS: THE AGGREGATE LAYER MUST BE AT LEAST 12 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.
- 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 THE PUBLIC ROAD. WASH WATER MUST BE CARRIED AWAY FROM ENTRANCE TO A SETTLING AREA TO REMOVE SEDIMENT. A WASH RACK MAY ALSO BE USED TO MAKE WASHING MORE CONVENIENT AND EFFECTIVE.
- MAINTENANCE: THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOW OF MUD ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH 2-INCH STONE, AS CONDITIONS DEMAND, AND REPAIR AND/OR CLEAN OUT 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.

MAINTENANCE OF SILTATION BARRIERS

- SILTATION BARRIERS SHALL BE INSPECTED IMMEDIATELY AFTER EACH RAINFALL AND AT LEAST DAILY DURING PROLONGED RAINFALL. CLOSE ATTENTION SHALL BE PAID TO THE REPAIR OF DAMAGED BARRIERS, END RUNS AND UNDERCUTTING BENEATH BARRIERS. NECESSARY REPAIRS OR REPLACEMENT OF BARRIERS SHALL BE ACCOMPLISHED PROMPTLY. SEDIMENT DEPOSITS SHOULD BE REMOVED AFTER EACH RAINFALL. THEY MUST BE REMOVED WHEN THE LEVEL OF DEPOSITION REACHES APPROXIMATELY ONE-HALF THE HEIGHT OF THE BARRIER. ANY SEDIMENT DEPOSITS REMAINING IN PLACE AFTER THE BARRIER IS NO LONGER REQUIRED SHALL BE DRESSED TO CONFORM TO THE EXISTING GRADE, PREPARED AND SEEDED.

SWALE PLANTING NOTES

- FINAL CONSTRUCTION APPROVAL AND/OR ISSUANCE OF CERTIFICATE OF OCCUPANCY IS CONTINGENT UPON SWALE INSPECTION BY SNOHOMISH COUNTY COMMUNITY DEVELOPMENT.
- INSPECTION MUST BE REQUESTED BY CALLING CHIEF INSPECTOR OF LAND DEVELOPMENT DIVISION AT 386-3385 AT LEAST 24 HOURS PRIOR TO INSPECTION DATE.
- CONSTRUCTION:
 - IF POSSIBLE, DIVERT RUNOFF FROM SWALES UNTIL VEGETATION IS ESTABLISHED.
 - IF RUNOFF DIVERSION IS NOT POSSIBLE, COVER GRADED AND SEEDING AREAS WITH A SUITABLE EROSION CONTROL, SLOPE COVERING MATERIAL (STRAW, MULCH, ETC.)
 - AVOID COMPACTION OF SWALES DURING CONSTRUCTION. IF COMPACTION OCCURS, TILL BEFORE PLANTING TO RESTORE LOST SOIL INFILTRATION CAPACITY.
- SEED MIX:

6% FOWL MANNA GRASS (GLYCERIA STRIATA)
 60% RED FESCUE (FESTUCA RUBRA)
 10% REDTOP BENTGRASS/COLONIA BENTGRASS (AGROSTIS ALBA/TENUISS)
 10% MEADOW FOXTAIL (ALOPECURUS PRATENSIS)
 8% TUFTED HARGRASS (DESCHAMPSIA CESPITOSA)
 8% WHITE CLOVER (TRIFOLIUM REPENS)
 PLANT LIST FOR DRAINAGE SWALES AND POND SIDE SLOPES (WET-TOLERANT):
 SLOUGH SEDGE (CAREX OXYSPORA)
 BUR-REED (SPARGANNUM ANGERMUM)
 SMALL FRUITED BURRUSH (SCORPUS MICROCARPUS)

BMP NOTES:

- COVER PRACTICES:
THE EXISTING VEGETATION SHOULD BE LEFT UNDISTURBED WHERE POSSIBLE TO LIMIT EROSION. DISTURBED AREAS SHALL BE COVERED WITH MULCH AND/OR MATING. STOCKPILES OR SLOPES STEEPER THAN 2:1 SHALL BE COVERED WITH PLASTIC SHEETING HELD IN PLACE WITH SAND BAGS.
- STRUCTURAL PRACTICES:
SILT FENCES AND/OR COMPOST BERM AS SHOWN WILL MINIMIZE SEDIMENT LADEN WATER FROM LEAVING THE SITE. ADDITIONAL BMP'S ARE SHOWN ON THIS SHEET WHICH MAY BE USED AS SITE CONDITIONS CHANGE.

STAND PIPE AND SEDIMENT POND MAINTENANCE

- THE EMBANKMENT OF THE BASIN SHOULD BE CHECKED REGULARLY TO INSURE THAT IT IS STRUCTURALLY SOUND AND HAS NOT BEEN DAMAGED BY EROSION OR CONSTRUCTION EQUIPMENT. THE EMERGENCY SPILLWAY SHOULD BE CHECKED REGULARLY TO INSURE THAT ITS LINING IS WELL ESTABLISHED AND EROSION-RESISTANT. THE SILTATION BASIN SHOULD BE CHECKED AFTER EACH RUNOFF-PRODUCING RAINFALL FOR SEDIMENT CLEAN OUT. WHEN THE SEDIMENT REACHES THE CLEAN OUT LEVEL, IT SHALL BE REMOVED AND PROPERLY DISPOSED.

PERMANENT COVER BMP (HYDROSEEDING GENERAL NOTES)

- CONSTRUCTION ACCEPTANCE: WILL BE SUBJECT TO A WELL ESTABLISHED GROUND COVER THAT FULFILLS THE REQUIREMENT OF THE APPROVED CONSTRUCTION PLANS AND TITLE 30.63, SNOHOMISH COUNTY DRAINAGE ORDINANCE.
- ALL DISTURBED AREAS SUCH AS DETENTION FACILITIES, ROADWAY BACK-SLOPES, ETC. SHALL BE SEEDING WITH A PERENNIAL GROUND COVER GRASS TO MINIMIZE EROSION. GRASS SEEDING WILL BE DONE USING AN APPROVED HYDROSEEDER OR AS OTHERWISE APPROVED BY SNOHOMISH COUNTY.
- PREPARATION OF SURFACE: ALL AREAS TO BE SEEDING SHALL BE CULTIVATED TO THE SATISFACTION OF THE COUNTY INSPECTOR. THIS MAY BE ACCOMPLISHED BY DISCING, RAKING, HARROWING OR OTHER ACCEPTABLE MEANS.
- IMMEDIATELY FOLLOWING FINISH GRADING, PERMANENT VEGETATION (CONSISTING OF RAPID, PERENNIAL AND LEGUME) WILL BE APPLIED. (MINIMUM 80# PER ACRE). THIS IS TO INCLUDE THE FOLLOWING: 20% ANNUAL, PERENNIAL OR HYBRID RYE GRASS, 40% CREEPING RED FESCUE, 40% WHITE CLOVER, HYDROSEED REQUIRED.
- FERTILIZER: SHALL BE APPLIED AT 400# PER ACRE OF 10-20-20 (10 LB. PER 1,000 SQUARE FEET) OR EQUIVALENT.

WET WEATHER GRADING NOTES

- THE CONSTRUCTION SEQUENCE SHALL BE MODIFIED TO MINIMIZE THE AREA OF SOIL EXPOSED.
- EARTHEN AREAS THAT ARE SUBJECT TO CONTRIBUTING SEDIMENTS DURING STORM EVENTS AND WHERE EARTH MOVEMENT IS NOT ANTICIPATED FOR 48-HOURS SHALL BE STABILIZED USING THE FOLLOWING BMP'S: HYDROSEEDING & MULCHING (4" THICK STRAW) OR COVERING DISTURBED AREAS AND STOCK PILES WITH PLASTIC SHEETING.
- WET WEATHER TESS MEASURES WILL BE EXPANDED TO INCLUDE CONSTRUCTION AREA STABILIZATION, (EXTEND CONSTRUCTION ENTRANCE), SEDIMENT TRAPS, AND ADDITIONAL SILT FENCES. IF NECESSARY, WINTER CONDITIONS TEMPORARY EROSION & SEDIMENT CONTROL BMP'S. FROM OCTOBER 1 TO MARCH 31, NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 2 DAYS, OTHERWISE NO SOIL MAY REMAIN EXPOSED FOR MORE THAN 7 DAYS. COVER PRACTICES: THE EXISTING VEGETATION SHOULD BE LEFT UNDISTURBED WHERE POSSIBLE TO LIMIT EROSION. DISTURBED AREAS SHALL BE COVERED WITH MULCH, SOD, PLASTIC OR MATING. STOCKPILES OR SLOPES STEEPER THAN 2:1 SHALL BE COVERED WITH PLASTIC SHEETING HELD IN PLACE WITH SAND BAGS. STRUCTURAL PRACTICES: SILT FENCES AROUND THE PERIMETER WILL PREVENT SEDIMENT LADEN WHERE ACTIVE GRADING IS IN PROGRESS. THE DIRECTOR MAY EXTEND THE DEADLINE FOR SOIL STABILIZATION UPON DETERMINING THAT THE LIKELIHOOD OF EROSION IMPACTS IS LOW BASED ON THE TYPE AND AMOUNT OF SOIL EXPOSED, SITE TOPOGRAPHY, THE POTENTIAL FOR DISCHARGE TO CRITICAL AREAS AND LAKES, AND OTHER FACTORS. DISTURBED AREAS SHALL BE COVERED WITH MULCH, SOD, PLASTIC OR MATING. GRADING CONSTRUCTION SHALL BE TIMED AND CONDUCTED IN STAGES TO MINIMIZE SOIL EXPOSURE.
- SOILS SHALL NOT BE DISTURBED EXCEPT FOR ACTUAL CONSTRUCTION ACTIVITIES. PARKING IS ALLOWED ONLY ON PAVED AND/OR GRAVEL SURFACES.
- SLOPES 8% AND GREATER WITHOUT ESTABLISHED GROUND COVER WILL BE STABILIZED WITH PLASTIC SHEETING, 6-MIL (MINIMUM). THE SHEETING SHALL BE ANCHORED WITH SAND BAGS LOCATED 5-FEET APART ON THE PERIMETER AND 10-FEET ON CENTER ON THE REMAINDER OF THE SHEETING. A MINIMUM OF 2-FEET OVERLAP IS REQUIRED FOR OVERLAPPING SHEETS.
- WATER DISCHARGED FROM THE SITE WILL BE MONITORED FOR TURBIDITY. THE MAXIMUM ALLOWABLE TURBIDITY OF DISCHARGED WATER WILL BE 5 NTU OVER BACKGROUND.
- WHEN RAINFALL IS HEAVY (DEFINED AS RAINFALL HARD ENOUGH TO PRODUCE SEDIMENT RUN-OFF FROM EXPOSED DIRT), ALL EXPOSED EARTHWORK SHALL BE COVERED. NO OTHER CONSTRUCTION ACTIVITY SHALL OCCUR ON PERVIOUS SURFACES DURING THESE PERIODS OF HEAVY RAIN.
- ALL DRAINAGE SWALES SHALL BE FULLY VEGETATED. SWALES SHALL BE SODDED IF THE VEGETATION GROWING IN THE SWALE IS INSUFFICIENT TO PROVIDE WATER QUALITY AND TO PREVENT EROSION OF THE SWALE.
- FILTER FABRIC (GEOTEXTILE FABRIC) SHALL BE INSTALLED BENEATH THE ENTIRE CONSTRUCTION ENTRANCE.
- IF THERE IS A MEASURABLE INCREASE IN THE TURBIDITY OF THE RECEIVING WATER GREATER THAN 5 NTU'S, THE WATER IN THE TEMPORARY SEDIMENTATION POND SHALL BE PUMPED TO UNDISTURBED VEGETATION ON SITE.

LEVEL 3 CONSTRUCTION STORM WATER POLLUTION PREVENTION PLAN (SWPPP) NOTES

THE PROPOSED PROJECT WAS EVALUATED FOR DRIFT SNOHOMISH COUNTY POLICY AND PROCEDURE 3044 TO DETERMINE THE EROSION RISK CATEGORY AND THE CORRESPONDING SWPPP. THE SOIL ON THE PROPOSED SITE IS ALDERWOOD TYPE SOIL, WHICH HAS AN EROSION HAZARD RISK CATEGORIZATION OF MEDIUM. THE PROJECT SITE IS LOCATED WITHIN 1/4 MILE OF A CRITICAL AREA, WHICH IS CLASSIFIED AS HIGH RISK. FINALLY, THE PROPOSED PROJECT MAY BE CONSTRUCTED IN THE WINTER, WHICH IS CATEGORIZED AS HIGH. PER THE DISCUSSION MATRIX IN DRIFT PRO-3044 (SEE BELOW), A LEVEL 3 CONSTRUCTION SWPPP IS REQUIRED.

POTENTIAL POLLUTANTS

THERE ARE THREE TYPES OF POTENTIAL POLLUTANTS THAT THIS SWPPP IS INTENDED TO ADDRESS:

- HAZARDOUS CHEMICALS
- PETROLEUM PRODUCTS
- SEDIMENT

REASONABLE CARE AND DISCRETION SHALL BE EXERCISED TO PREVENT DAMAGING THE ENVIRONMENT THROUGH A RELEASE OF ANY OF THE THREE TYPES OF POLLUTANTS. THIS SWPPP IS TO BE CONSIDERED A GUIDE, AND REPRESENTS ONLY THE MINIMUM STANDARD OF CARE TO BE PRACTICED DURING THE CONSTRUCTION PHASE OF THIS PROJECT. AN EROSION CONTROL OFFICER SHALL BE RESPONSIBLE FOR EVALUATING THE CONDITIONS AND POLLUTION POTENTIAL ON THE PROJECT SITE AT ALL TIMES AND DETERMINING WHAT ADDITIONAL MEASURES NEED TO BE ENACTED TO PROTECT THE ENVIRONMENT. THIS MAY INCLUDE STOPPING CONSTRUCTION UNTIL CONDITIONS CHANGE SUCH THAT THE DANGER TO THE ENVIRONMENT HAS BEEN MINIMIZED.

HAZARDOUS CHEMICALS, SUCH AS CLEANING AGENTS AND SOLVENTS, SHALL BE STORED IN AN APPROVED CHEMICAL STORAGE FACILITY(IES), LOCATED IN THE EQUIPMENT STAGING AREA. WHEN USING CHEMICALS DURING CONSTRUCTION ACTIVITY, CARE SHALL BE TAKEN TO GUARD AGAINST SPILLAGE. IN THE EVENT OF A CHEMICAL RELEASE, THE APPROPRIATE AUTHORITIES ARE TO BE NOTIFIED AND THE SPILL IS TO BE CLEANED UP IMMEDIATELY.

PETROLEUM PRODUCTS
 THE CONSTRUCTION SITE IS TO BE PROTECTED AGAINST EXCESSIVE PETROLEUM POLLUTION. ALL CONSTRUCTION EQUIPMENT AND VEHICLES SHALL HAVE A REGULAR MAINTENANCE SCHEDULE, AS RECOMMENDED BY THE PRODUCT MANUFACTURER, WHICH PARTICULAR ATTENTION/ARE BEING PAID TO LOCATIONS THAT ARE COMMONLY KNOWN TO LEAK LUBRICANTS. UPON DISCOVERY OF AN UNSATISFACTORY PART, THAT VEHICLE/EQUIPMENT SHALL NOT BE OPERATED UNTIL IT HAS BEEN FIXED. ADDITIONALLY, ALL OIL AND REFUELING OPERATIONS ARE TO BE CONDUCTED IN A DESIGNATED AREA THAT HAS BEEN PREPARED TO PREVENT THE LOSS OF SPILLED OIL/FUEL TO THE ENVIRONMENT THROUGH THE USE OF A LINES, SPILL TRAP OR OTHER MEANS.

SEDIMENT
 THE RELEASE OF SEDIMENT TO THE ENVIRONMENT SHALL BE PREVENTED AT ALL TIMES. THE FOLLOWING BMP'S ARE TO BE CONSIDERED THE MINIMUM PROTECTION MEASURES:

- THE DISTRIBUTION/TRACKING OF MUD/SEDIMENT ONTO ROADS FROM CONSTRUCTION EQUIPMENT/VEHICLES SHALL BE PREVENTED. THE ENTRANCE SHALL BE ACCESSIBLE VIA A ROCK CONSTRUCTION ENTRANCE, UNDERLAIN BY A GEO-TEXTILE FABRIC. THE CONSTRUCTION ENTRANCE SHALL BE EXTENDED IF NECESSARY TO PROVIDE ACCESS TO THE EMPLOYEE PARKING AND EQUIPMENT STAGING AREAS. PRIOR TO LEAVING THE CONSTRUCTION SITE, CONSTRUCTION EQUIPMENT/VEHICLES SHALL BE INSPECTED FOR MUD/SEDIMENT AND ALL WHEELS AND SURFACES ARE TO BE BRUSHED/CLEANED/WASHED AS NECESSARY PRIOR TO LEAVING THE CONSTRUCTION SITE. ADDITIONALLY, THE EXISTING PAVEMENT SHALL BE KEPT ALONG 138TH ST SE AND PLATTE HILL ROAD ADJACENT TO THE SITE.
- COVER MATERIALS (I.E. STRAW, MULCH OR PLASTIC SHEETING) SHALL BE STORED ON SITE IN SUFFICIENT QUANTITIES SUCH THAT ALL PORTIONS OF EXPOSED EARTH CAN BE COMPLETELY COVERED TO PREVENT EROSION.
- THE PLANNED CONSTRUCTION ACTIVITIES SHALL BE EVALUATED ON A DAILY BASIS, TAKING INTO CONSIDERATION THE LATEST WEATHER FORECAST. THE WEATHER FORECAST SHALL DICTATE WHETHER LARGE-SCALE EARTH MOVING OPERATIONS SHALL COMMENCE OR CONTINUE. IF PRECIPITATION OCCURS DURING CONSTRUCTION ACTIVITY, AND IS INTENSE ENOUGH TO GENERATE RUNOFF, ALL EARTH MOVING ACTIVITIES SHALL CEASE AND EXPOSED EARTH SHALL BE COVERED TO PREVENT EROSION. WHILE PRECIPITATION PERSISTS, THE ONLY CONSTRUCTION ACTIVITY THAT SHALL BE ALLOWED ARE THOSE ACTIVITIES REQUIRED TO MAINTAIN EXISTING EROSION CONTROL MEASURES, INSTALL NEW EROSION CONTROL BMP'S AS NECESSARY AND NON-EROSION/SEDIMENT GENERATING ACTIVITIES.

MAINTENANCE, INSPECTION & PROJECT MANAGEMENT

PRIOR TO ANY SITE DEVELOPMENT WORK TAKING PLACE, A PRE-CONSTRUCTION MEETING WITH THE CONTRACTOR, OWNER ENGINEER (PEAK ENGINEERING, INC.) AND THE COUNTY INSPECTOR SHALL BE HELD. THE PROPOSED CONSTRUCTION ACTIVITIES SHALL BE MONITORED BY THE EROSION CONTROL OFFICER, AFTER EVERY RAINFALL OR AT A MINIMUM, WEEKLY, FOR COMPLIANCE WITH THE SWPPP GUIDELINES/OBJECTIVES. THE OWNER SHALL DESIGNATE AN EROSION CONTROL OFFICER FOR THE PROJECT. THE EROSION CONTROL OFFICER MUST HAVE RECEIVED TRAINING (I.E. EROSION CONTROL SEMINAR FOR EXAMPLE) OR HAVE HAD SUFFICIENT EXPERIENCE WITH CONSTRUCTION ACTIVITIES TO IMPLEMENT THE SWPPP. THE EROSION CONTROL OFFICER SHALL BE RESPONSIBLE FOR ENSURING THAT THE WATER QUALITY OBJECTIVES OF THE SWPPP ARE ACHIEVED. THE OFFICER SHALL BE RESPONSIBLE FOR INSPECTING THE CONSTRUCTION SITE TO ENSURE THAT ALL CONSTRUCTION SWPPP MEASURES ARE FUNCTIONING AS INTENDED. THE OFFICER SHALL HAVE THE AUTHORITY TO ALLOCATE RESOURCES TO REMEDY ALL EROSION CONTROL STRUCTURES THAT ARE IN NEED OF MAINTENANCE. ADDITIONALLY, THE EROSION CONTROL OFFICER SHALL BE RESPONSIBLE FOR MONITORING THE CONSTRUCTION SITE TO ENFORCE COMPLIANCE WITH THE APPROVED CONSTRUCTION SWPPP. IF, DURING THE COURSE OF THE WORKDAY, IT STARTS TO PRECIPITATE, IT SHALL BE THE EROSION CONTROL OFFICER WHO EVALUATES THE INTENSITY OF THE RAINFALL, AND THE POTENTIAL TO GENERATE RUNOFF/EROSION. SHOULD THE EROSION CONTROL OFFICER DETERMINE THAT MAINTENANCE IS OCCURRING, HE SHALL HAVE THE AUTHORITY TO REQUEST CONSTRUCTION ACTIVITIES TO COVERING ALL EXPOSED SOIL. MAINTENANCE OF EXISTING SWPPP ELEMENTS, AND CONSTRUCTING ADDITIONAL POLLUTION PREVENTION SYSTEMS DEEMED NECESSARY TO PROTECT THE ENVIRONMENT.

ADDITIONALLY, THE SWPPP CONTROL OFFICER SHALL BE RESPONSIBLE FOR MONITORING WATER QUALITY FOR ANY STORM DRAINAGE THAT LEAVES THE SITE. DURING PRECIPITATION EVENTS THAT GENERATE RUNOFF, WATER QUALITY MEASURES SHALL BE TAKEN PERIODICALLY WHILE CONSTRUCTION ACTIVITIES ARE ONGOING. RUNOFF GENERATING EVENTS THAT OCCUR DURING THE EVENING HOURS, WATER QUALITY SHALL BE MONITORED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES THE FOLLOWING DAY. IF THERE IS NO MEASURABLE INCREASE IN WATER QUALITY, THEN THE CONSTRUCTION CAN CONTINUE AS SCHEDULED. IF THERE IS A MEASURED INCREASE IN THE TURBIDITY OF THE STREAM BY GREATER THAN 5 NTU'S, THEN THE ONLY CONSTRUCTION ACTIVITIES THAT SHALL BE ALLOWED ARE THE REPAIR OF EXISTING EROSION CONTROL STRUCTURES. INSTALLATION OF ADDITIONAL BMP'S TO MINIMIZE THE TRANSPORT OF SEDIMENT OFFSITE, OR THOSE ACTIVITIES THAT DO NOT DISTURB EXPOSED EARTH AND HAVE THE POTENTIAL TO GENERATE ADDITIONAL SEDIMENT.

THE TWELVE ELEMENTS OF A CONSTRUCTION SWPPP

- CLEARING LIMITS: THE CLEARING LIMITS ARE INDICATED ON THE PLAN SHEET. FURTHERMORE, CLEARING AND GRADING WILL BE LIMITED TO ONLY AREAS THAT NEED TO BE DISTURBED FOR GRADING/CONSTRUCTION. FIELD MARKING THE CLEARING LIMITS SHALL BE COMPLETED PRIOR TO CLEARING AND GRABBING ACTIVITIES.
BMP'S: PRESERVE NATURAL VEGETATION (N6)
FIELD MARKING CLEARING LIMITS (C6)
- ACCESS TO THE CONSTRUCTION SITE SHALL BE LIMITED TO THE ROCK CONSTRUCTION ENTRANCES. THE CONSTRUCTION ENTRANCES SHALL BE EXTENDED TO PROVIDE ACCESS TO THE CONSTRUCTION VEHICLE/EQUIPMENT STAGING AND EMPLOYEE PARKING AREAS.
BMP'S: STABILIZED CONSTRUCTION ENTRANCE (C2)
- STORM WATER DETENTION: DETENTION OF STORM WATER FLOWS WILL BE PROVIDED BY THE DETENTION POND.
- SEDIMENT CONTROL: WILL BE PROVIDED WITH SILT FENCE AND/OR COMPOST BERMS LOCATED ALONG THE DOWN SLOPE OF THE CONSTRUCTION ACTIVITY. TEMPORARY SEDIMENT POND(S) WILL BE UTILIZED AND RUNOFF WILL BE PUMPED BACK UP TO THE VEGETATED LAWN AREA ON THE SHORT PLAT. IF NECESSARY, CHITOSAN SOCK WILL BE USED AT THE DISCHARGE OF THE PUMP LINE.
BMP'S: SILT FENCE (S5)
TEMPORARY SEDIMENT POND (S8)
ROCK CHECK DAMS (R0)
SILT FENCE (S5)
TEMPORARY SEDIMENT POND COMPOST FILTER BERM (C2B)
- TEMPORARY AND PERMANENT SOIL STABILIZATION WILL BE PROVIDED THROUGH THE APPLICATION OF STRAW AND/OR PLASTIC SHEETING TO EXPOSED, WORKED EARTH. STABILIZE EXPOSED SOIL WITHIN TIME FRAMES INDICATED IN NET WEATHER NOTES ON THIS SHEET. PERMANENT SOIL STABILIZATION SHALL CONSIST OF ESTABLISHING VEGETATION BY SEEDING OR PLANTING.
BMP'S: STRAW COVERING
PLASTIC SHEETING
HYDROSEEDING
- SLOPES SHALL BE PROTECTED FROM EROSION THROUGH COVER AND PREVENTION OF CONCENTRATED SURFACE RUNOFF FLOWS.
BMP'S: STRAW COVERING
PLASTIC SHEETING
INTERCEPTOR SWALES
DISPERSION TRENCH
- INLET PROTECTION SHALL BE INSTALLED IN ALL CATCH BASINS AND REMAIN UNTIL CONSTRUCTION OF ALL THE RESIDENCES WITHIN THE DEVELOPMENT HAS BEEN COMPLETED. NO UNFILTERED STORM WATER SHALL BE ALLOWED TO ENTER THE CLOSED CONVEYANCE SYSTEM. INLET PROTECTION SHALL BE INSPECTED REGULARLY AND THE FILTER FABRIC CLEANED/REPLACED AS NECESSARY, WHEN PROVIDING MAINTENANCE TO THE INLET PROTECTION, THE FABRIC SHALL BE REMOVED IN SUCH A WAY AS TO NOT ALLOW THE RETAINED SEDIMENT TO FALL INTO THE CATCH BASIN.
BMP'S: INLET PROTECTION (P)
- ALL CHANNEL SLOPES SHALL BE CONSTRUCTED AND PROTECTED AGAINST EROSION IN ACCORDANCE WITH SNOHOMISH COUNTY E.D.D.S. BMP'S: RIP RAP (QUARRY SPALLS)
STRAW BALES
- POLLUTANTS SHALL BE CONTROLLED AS DESCRIBED IN THE POTENTIAL POLLUTANTS SECTION OF THIS SWPPP.
- DE-WATERING: INTERCEPTION OF THE WATER TABLE IS NOT EXPECTED TO OCCUR. HOWEVER, SHOULD GROUND WATER FLOWS BE ENCOUNTERED, THE FLOWS CAN BE DIRECTED TO THE INTERCEPTOR SWALES AND CONVEYED TO THE TEMPORARY SEDIMENTATION POND.
BMP'S: INTERCEPTOR SWALES
TEMPORARY SEDIMENTATION POND
DISPERSION TRENCH
- ALL BMP'S AND SWPPP ELEMENTS SHALL BE INSPECTED DAILY AND MAINTAINED AS REQUIRED.
- PROJECT MANAGEMENT: THE PROJECT SHALL BE MANAGED IN A COOPERATIVE EFFORT BY THE PROJECT MANAGER, CONTRACTOR, ENGINEER AND THE COUNTY INSPECTOR. DURING THE CONSTRUCTION PROCESS, IF UNFORESEEN ISSUES ARISE THAT CANNOT BE RESOLVED ON SITE, CONSTRUCTION ACTIVITY (OTHER THAN SWPPP MAINTENANCE) SHALL BE HALTED AND THE COUNTY INSPECTOR AND THE PROJECT ENGINEER ARE TO BE CONTACTED AND INFORMED OF THE SITUATION.

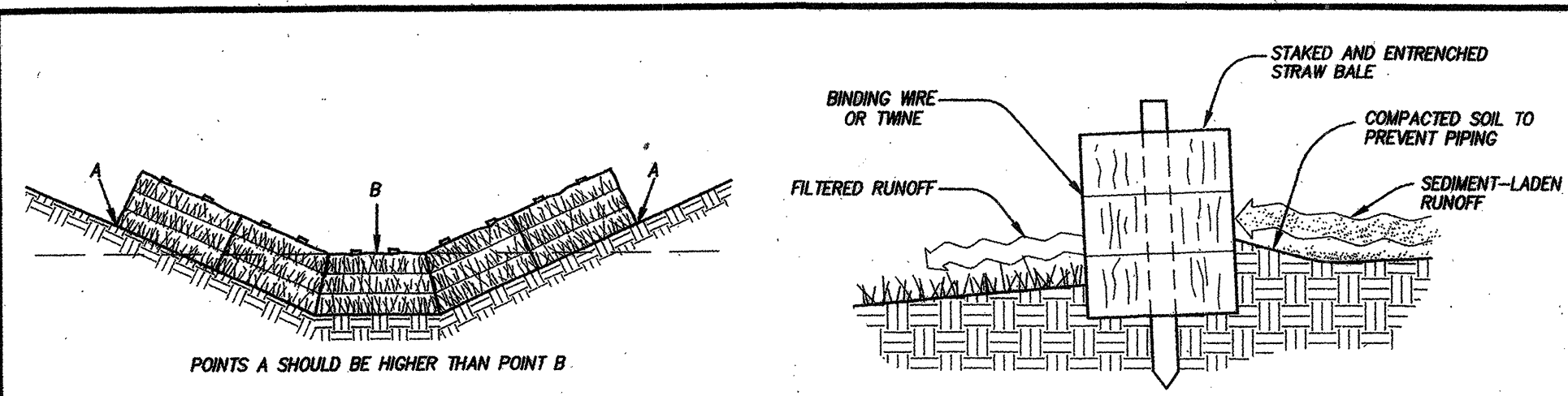
CONSENSUS

PRIOR TO CONSTRUCTION, THE PROJECT ENGINEER (PEAK ENGINEERING, INC.), PROJECT MANAGER, GENERAL CONTRACTOR, COUNTY INSPECTOR AND COUNTY PLAN REVIEWER MUST ALL AGREE THAT THE PROPOSED PLAN IS FEASIBLE. IF A CONSENSUS CANNOT BE REACHED, THE PDS DIRECTOR OR COUNTY ENGINEER SHALL APPOINT A THREE-PERSON COMMITTEE TO RESOLVE THE ISSUES.

SWPPP RISK ASSESSMENT DECISION MATRIX

	LOW	MED.	HIGH	VERY HIGH
WINTER GRADING PROPOSED	NO OR YES	NO OR YES	MAYBE REQUIRES LEVEL II	NOT ALLOWED
AREA DISTURBED	LESS THAN 1 ACRE	1 TO 5 ACRES	5 TO 20 ACRES	MORE THAN 20 ACRES
SLOPE	AVERAGE LESS THAN 8%	AVERAGE MORE THAN 8% BUT LESS THAN 15% OR AREAS ARE LESS THAN 15%	AVERAGE MORE THAN 15% BUT LESS THAN 33%	AVERAGE MORE THAN 33%
SOIL EROSION HAZARDOUS PER APPENDIX "A" POL-3044	LOW SCS SOIL TYPE A (PERMEABLE SOIL)	LOW A OR TYPE B	MEDIUM TYPE C&D	HIGH TYPE D
CRITICAL AREAS DOWN SLOPE OF DOWNSTREAM OF DISCHARGE POINT	GREATER THAN 1/4 MILE	GREATER THAN 1/4 MILE	LESS THAN 1/4 MILE	LESS THAN 1/4 MILE FLOWS DIRECTLY TO ESK STREAM
LEVEL SWPPP REQUIRED	LEVEL I	LEVEL II	LEVEL III	LEVEL III

NOTE: BOLD INDICATES THE CATEGORY THAT THIS PROJECT FALLS IN.



PROPER PLACEMENT OF STRAW BALE BARRIER IN DRAINAGE WAY

CROSS-SECTION OF PROPERLY INSTALLED STRAW BALE BARRIER

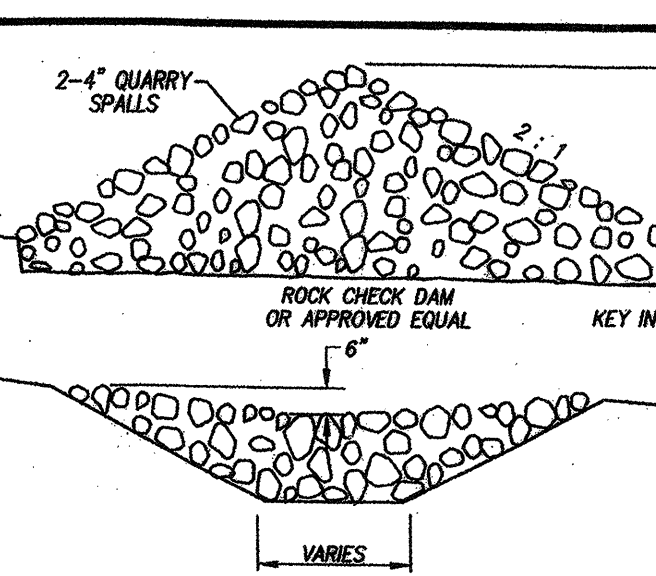
STRAW BALE BARRIER

N.T.S.

- FILTER BERMS SHALL BE CONSTRUCTED AS SHOWN ON THE PLANS.
- FILTER BERMS SHALL BE COMPOSED OF PACIFIC GARDEN MULCH (PGM) PRODUCED BY PACIFIC TOPSOIL, INC. OR EQUIV.
- PGM SHALL MEET THE FOLLOWING SPECIFICATIONS:
MULCH PRODUCED ON A STABLE COMPOST PILE
RETAINED ON A 1/2" IN SCREEN
THE FOLLOWING DATA IS ON THE PORTION THAT PASSED THROUGH THE 1/2" SCREEN:
C:N RATIO: 20-30
MOISTURE CONTENT: 30%-50%
ORGANICS: 20%-50%
BULK DENSITY: 100-1500 LBS/CY (1)
PARTICLE SIZE, PERCENT THAT CAN PASS THROUGH THE SCREEN SIZE BELOW:
0.5 MM: 85% MIN
0.75 MM: 65% MIN
1.0 MM: 45% MIN
1.5 MM: 30% MIN
2.0 MM: 10% MIN
2.5 MM: 5% MIN
3.0 MM: 0% TO 40%
- APPLICATION OF PGM SHALL BE BY BLOWER.
- PILED BRUSH SHALL BE REMOVED WHERE FILTER BERMS ARE TO BE CONSTRUCTED.
- ROCK CHECK DAM FOR CONSTRUCTION OF THE FILTER BERM MAY BE APPLIED UP TO 300' FROM THE TRAIL.
- THE CONTRACTOR SHALL MAINTAIN THE EROSION CONTROL FILTER BERM IN A FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
- THE CONTRACTOR SHALL IMMEDIATELY CORRECT ALL DEFICIENCIES. THE CONTRACTOR SHALL MAKE A DAILY REVIEW OF THE LOCATION OF THE BERM IN FUNCTIONAL CONDITION AT ALL TIMES AND IT SHALL BE ROUTINELY INSPECTED.
- WHILE CONSTRUCTION ACTIVITY CAUSES DRAINAGE RUNOFF TO ENSURE THAT THE BERM IS PROPERLY LOCATED FOR EFFECTIVENESS. WHERE DEFICIENCIES EXIST, ADDITIONAL BERM MATERIAL SHALL BE INSTALLED IMMEDIATELY.
- THE CONTRACTOR SHALL REMOVE SEDIMENT RETAINED BY THE BERM ONCE IT HAS REACHED 1/2 OF THE EXPOSED HEIGHT OF THE BERM, OR AS DIRECTED BY THE ENGINEER.

COMPOST FILTER BERM DETAIL

N.T.S.



ROCK CHECK DAM DETAIL

N.T.S.

TEMPORARY INTERCEPTOR TRENCH DETAIL

N.T.S.

PEAK ENGINEERING INC.

1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
 (360) 658-6986 / FAX: (360) 658-7826



SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:

MEAD GLAMAN & ASSOC.
 PROFESSIONAL LAND SURVEYORS
 P.O. BOX 289
 WOODVILLE, WA 98072
 PH: 425-486-1252
 FAX: 425-486-6108
 JOB #03055

AS-BUILT DECLARATION

WE HEREBY DECLARE THAT ROAD AND STORM DRAINAGE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE RECORD DRAWINGS.

BY: *R.E. H. O.* DATE: 8-25-05
 PROJECT ENGINEER

BY: *R.E. O.* DATE: 8/25/05
 PLAT DEVELOPER / OWNER

CALL 48 HOURS BEFORE YOU 1-800-424-5555

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

DATE	REVISION/ISSUED
4/1/04	ISSUED
6/18/04	PER COUNTY REVIEW
7/13/04	PER COUNTY REVIEW
7/13/05	AS-BUILT
8/22/05	REVISED PER SW. CO. RT AB REVIEW

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
 APPROVED FOR CONSTRUCTION

[Signature]
 FOR HANDLING OF SLOTTED, P.E., P.L.G. 7/19/2004

R/N PERMIT NO. **04-114872**

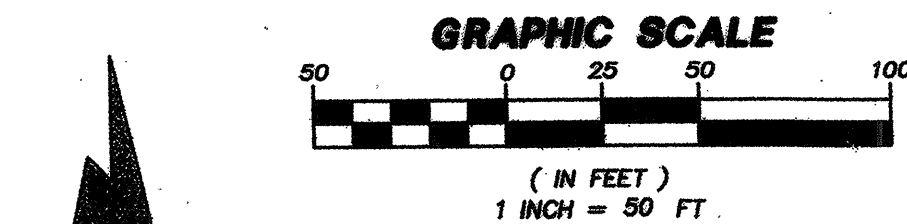
PFN: 03-109825 *AS-BUILT*

APPLETREE NORTH

SWPPP NOTES & DETAILS

DWG **C3** OF 8

PROJECT NO. **03496**



DATUM: NAD 83 (1983 NATIONAL GEODETIC DATUM)

BENCH: SNOHOMISH COUNTY BENCHMARK 383/789
CHISEL "A" IN SE COR. OF TRAFFIC SIGNAL BASE, NW
QUADRANT W/ 1200 ST. SE. & SEATTLE HILL RD.
ELEVATION= 437.25'
ADD 3.8 TO CONVERT TO NAD 83
ELEVATION= 433.52'

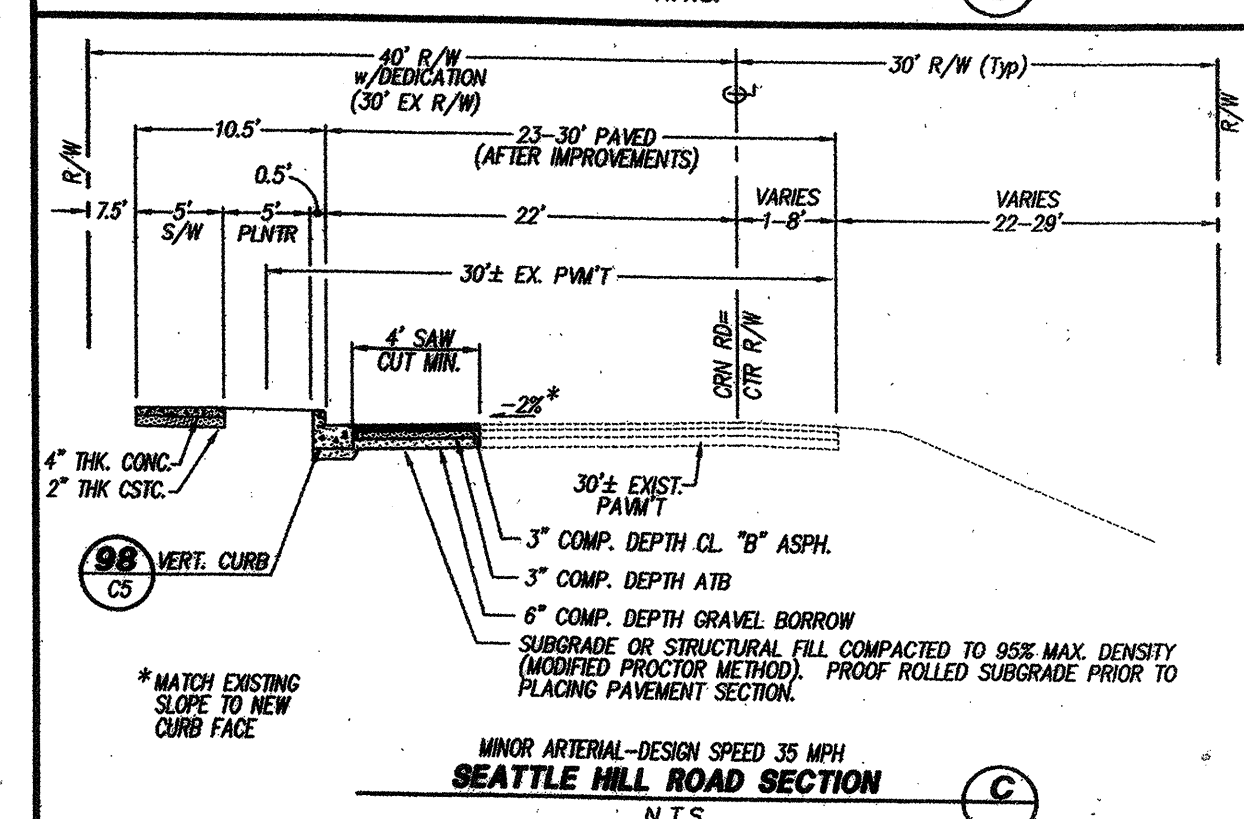
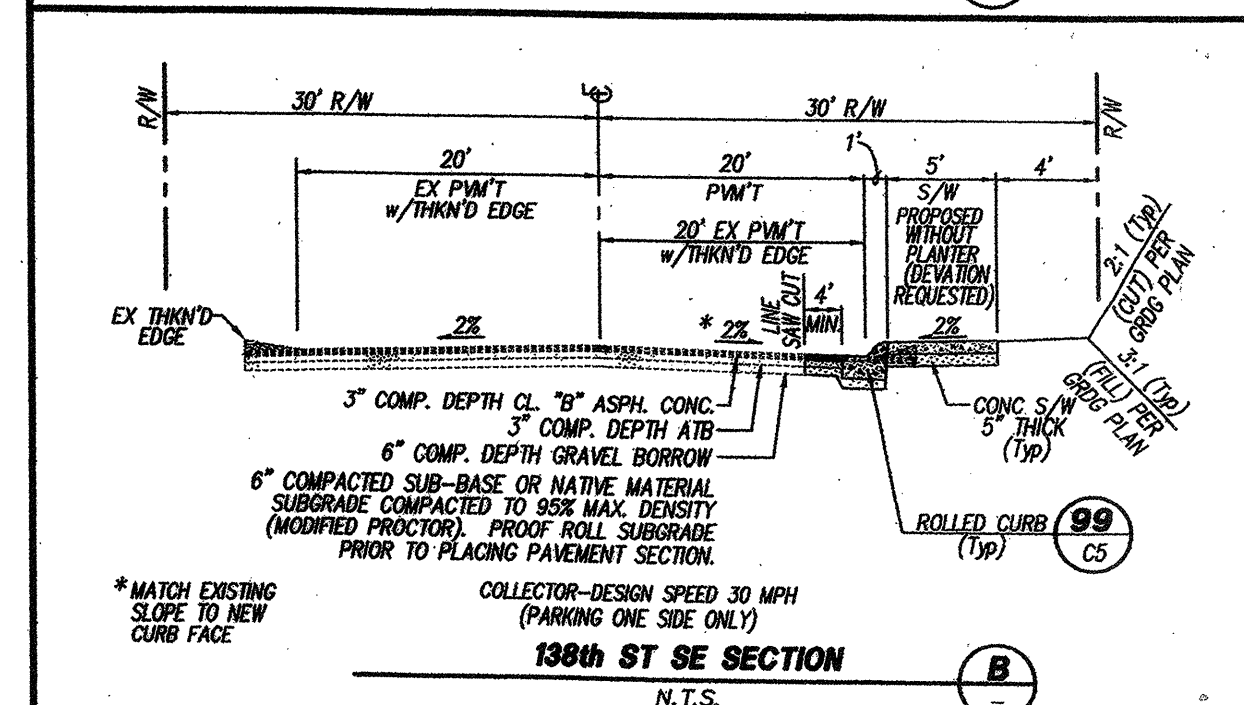
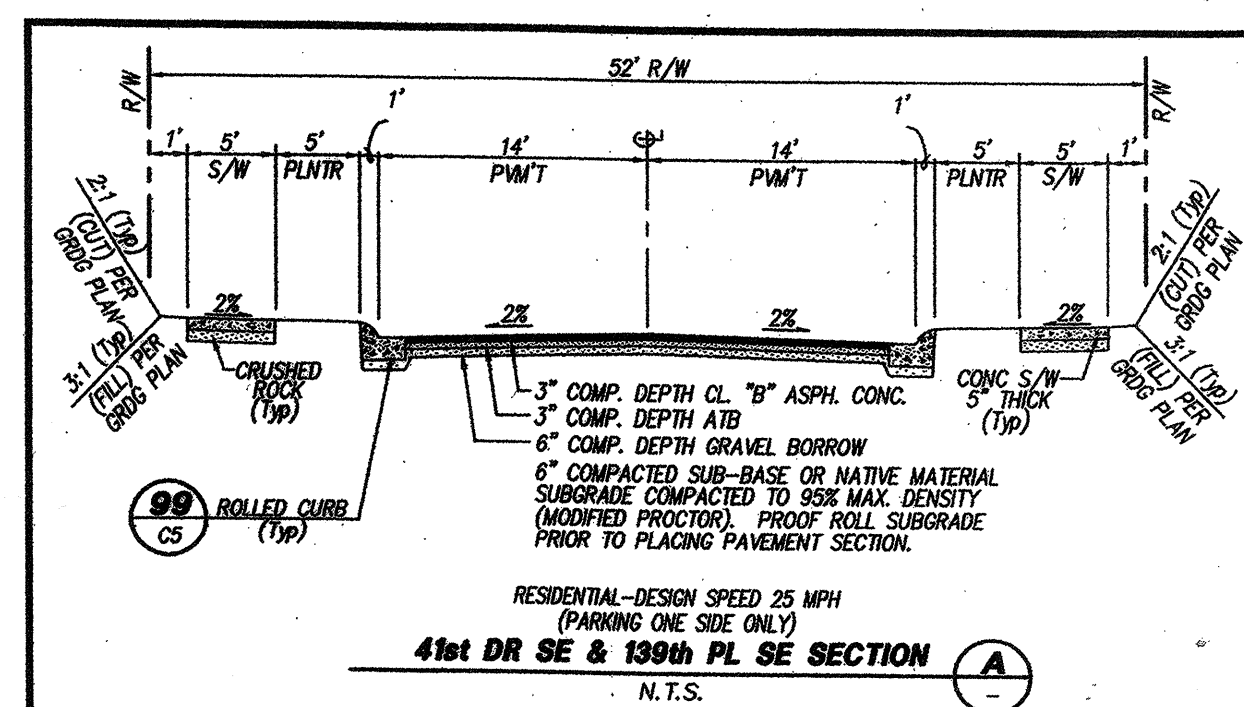
TBM-A: 1" IN SW COR. OF THE HYDRAULIC NE QUADRANT W/ 1200 ST. SE. & 42ND AVE. SE.
ELEVATION= 433.52'

TBM-B: CHISEL SQUARE IN SE COR. POWER VALVE, SW COR. SITE.
ELEVATION= 433.52'

SUN ROSE
A.F. NO. 2000000205002

DRAINAGE NOTES:

1. THE EXISTING SITE SLOPES EAST TO WEST AT APPROX. 4.0%.
2. SOILS ON SITE ARE ALDERWOOD URBAN COMPLEX, HYDROLOGIC SOIL GROUP "C".
3. EXISTING COVER:
0.81 AC - RESIDENCES, D/W'S & OUT BUILDINGS
2.20 AC - PASTURE/GRASS w/ SOME TREES
4. DEVELOPED CONDITION:
3.32 AC GRASS/LANDSCAPING
4.69 AC IMPERVIOUS (ROAD & FRONTAGE, RESIDENCES, & D/W'S)
5. RUNOFF FROM IMPERVIOUS SURFACES WILL BE COLLECTED AND CONVEYED TO THE DETENTION VAULT AND WATER QUALITY VAULT.
6. OUTFLOW FROM THE VAULT WILL BE NORTHERLY TO 138th ST SE WHERE A NEW STORM SYSTEM (DEEPER THAN EXISTING) WILL DIRECT RUNOFF WEST TO THE OFFSITE WETLAND.
7. SEE "FULL DRAINAGE REPORT, DOWNSIDE ANALYSIS AND EROSION RISK ASSESSMENT" DATED APRIL 1, 2004, PREPARED BY PEAK ENGINEERING, INC.
8. LOTS 1, 2 & 3 ARE TO PROVIDE SPLASH BLOCKS.



SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

DATE: 4/1/04
REVISION/ISSUED
6/18/04 PER COUNTY REVIEW
7/13/04 PER COUNTY REVIEW
7/13/05 AS-BUILT
8/22/05 REVISED PER SNO CO. ST. AB/REV/VIEW

R/W PERMIT NO.: **04-144872**

PFN: 03-109825 AS-BUILT

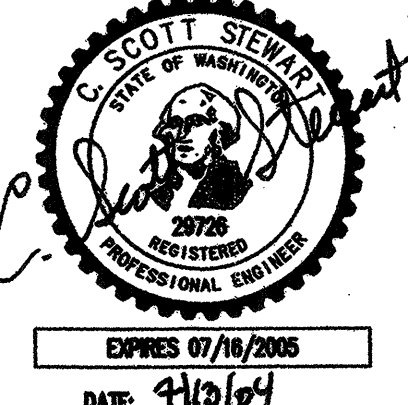
APPLETREE NORTH
ROAD, GRADING & DRAINAGE PLAN

PROJECT NO. **03496**

DWG **C4**
OF 8

PEAK ENGINEERING INC.

1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
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GRADING ESTIMATE

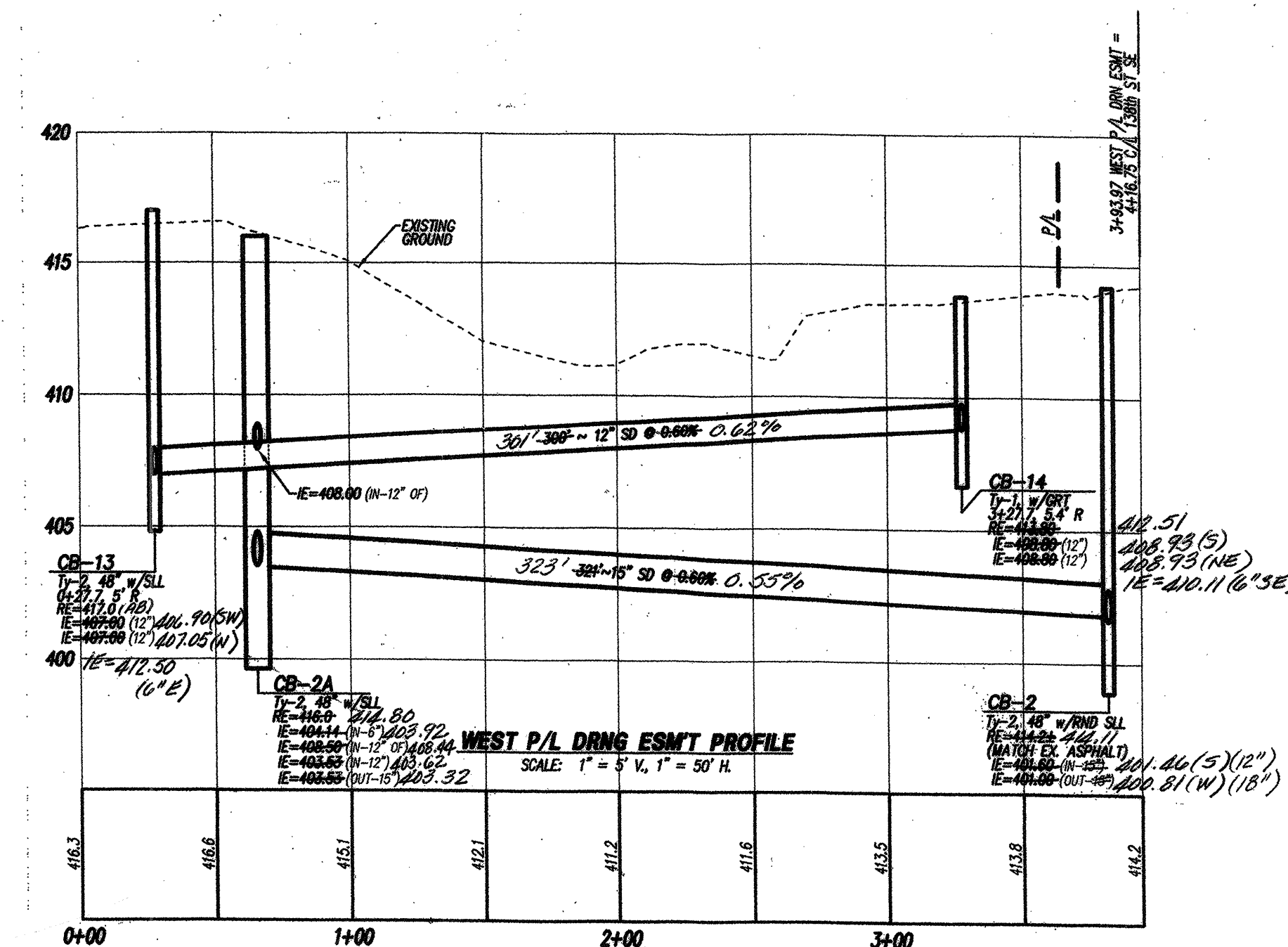
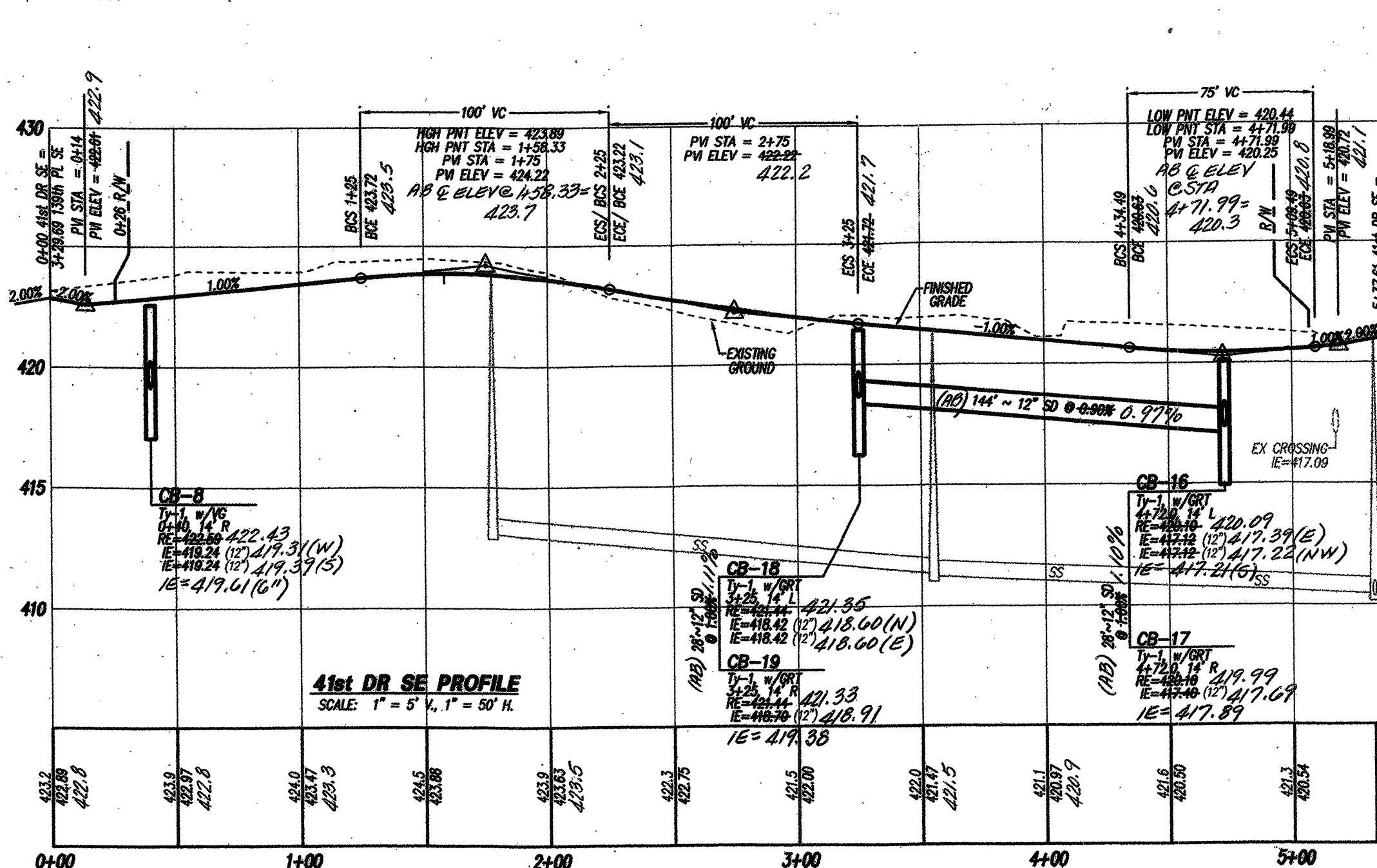
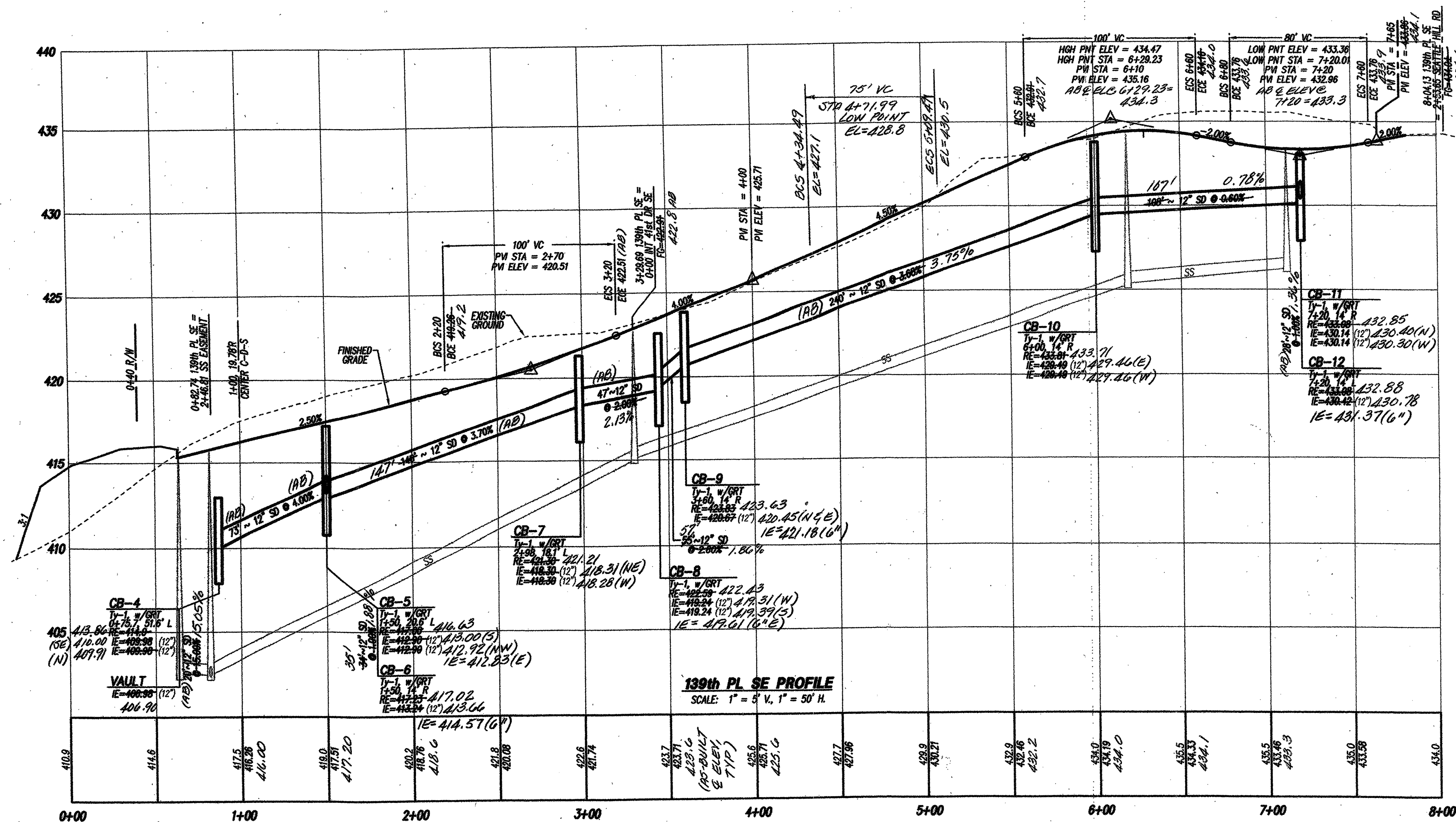
CUT: 8,000 CY
FILL: 8,000 CY
THE GRADING ESTIMATE PROVIDED FOR THESE PLANS IS APPROXIMATE. ACTUAL GRADING VOLUMES MAY VARY. CALCULATIONS DO NOT ACCOUNT FOR VARIOUS VOLUMETRIC CHANGES DURING THE EARTH WORK PROCESS.
GRADING ESTIMATE PRODUCED USING LAND DEVELOPMENT DESKTOP REL. 2 SURFACE MODEL. EXISTING GROUND AND PROPOSED FINISHED GRADE SURFACE MODEL COMPARED USING THE AVERAGE END AREA METHOD WITH SECTION SAMPLING @ 10' INTERVALS.

US POSTAL SERVICE

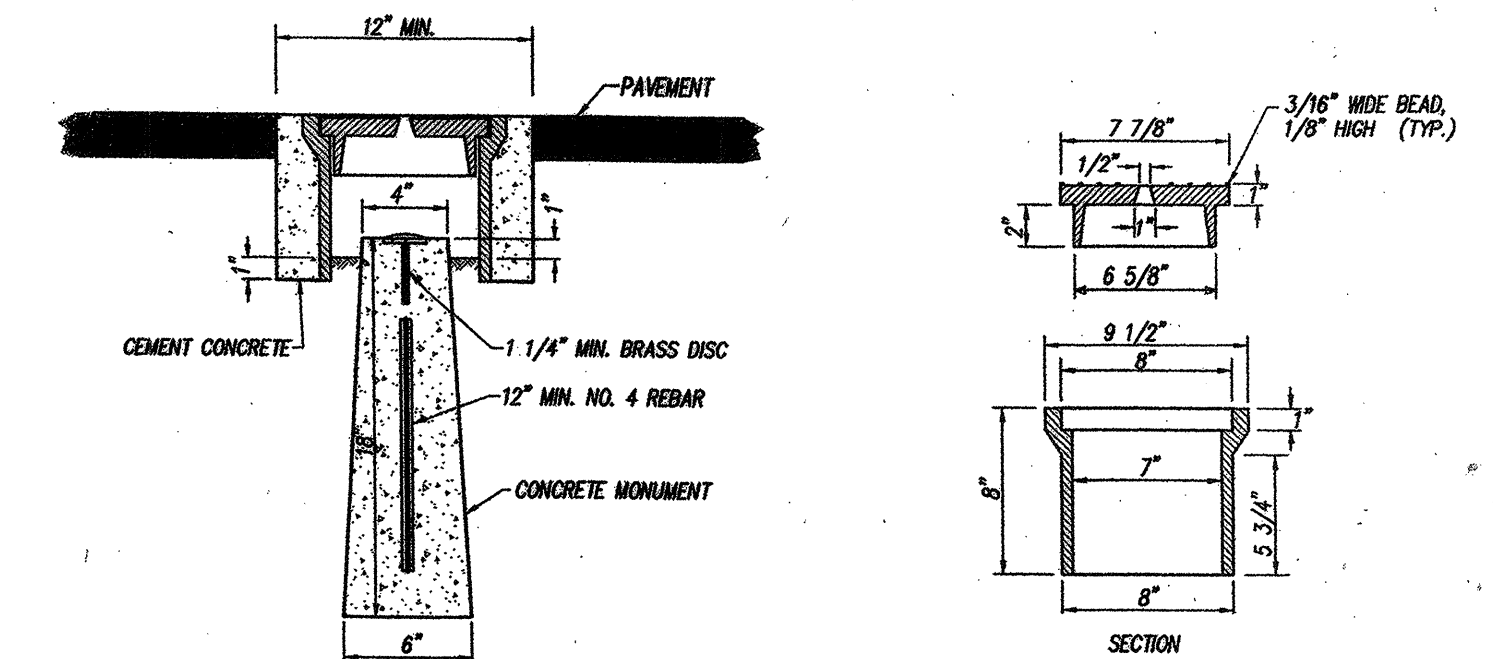
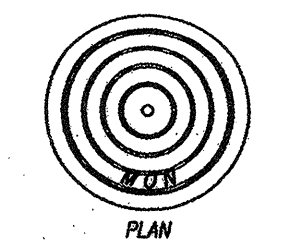
APPROVED FOR MB LOCATION
BY: DONNA K. SMITH
US POSTMASTER
(ORIGINAL SIGNATURE IN FILE)
DATE: 4/2/04

AS-BUILT DECLARATION

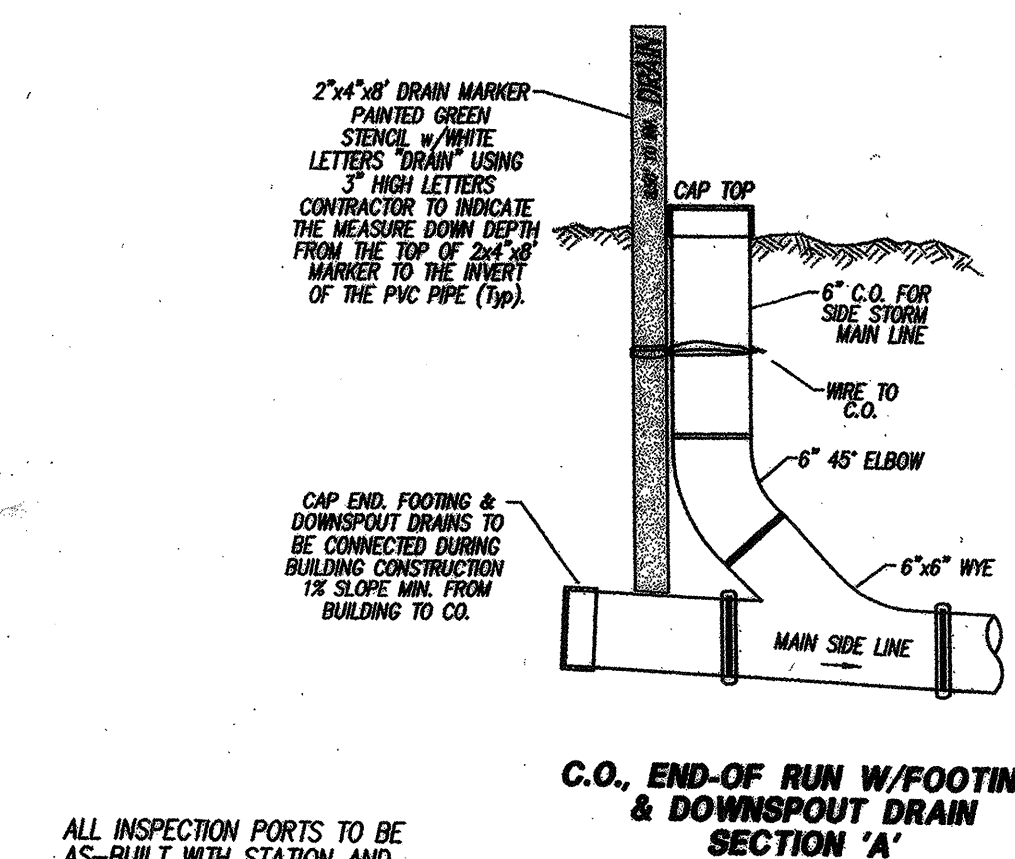
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BY: *R.E. H. D.* 8-25-05
PROJECT ENGINEER SURVEYOR DATE
BY: *R.E. H. D.* 8/25/05
PLAT DEVELOPER / OWNER DATE
CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555
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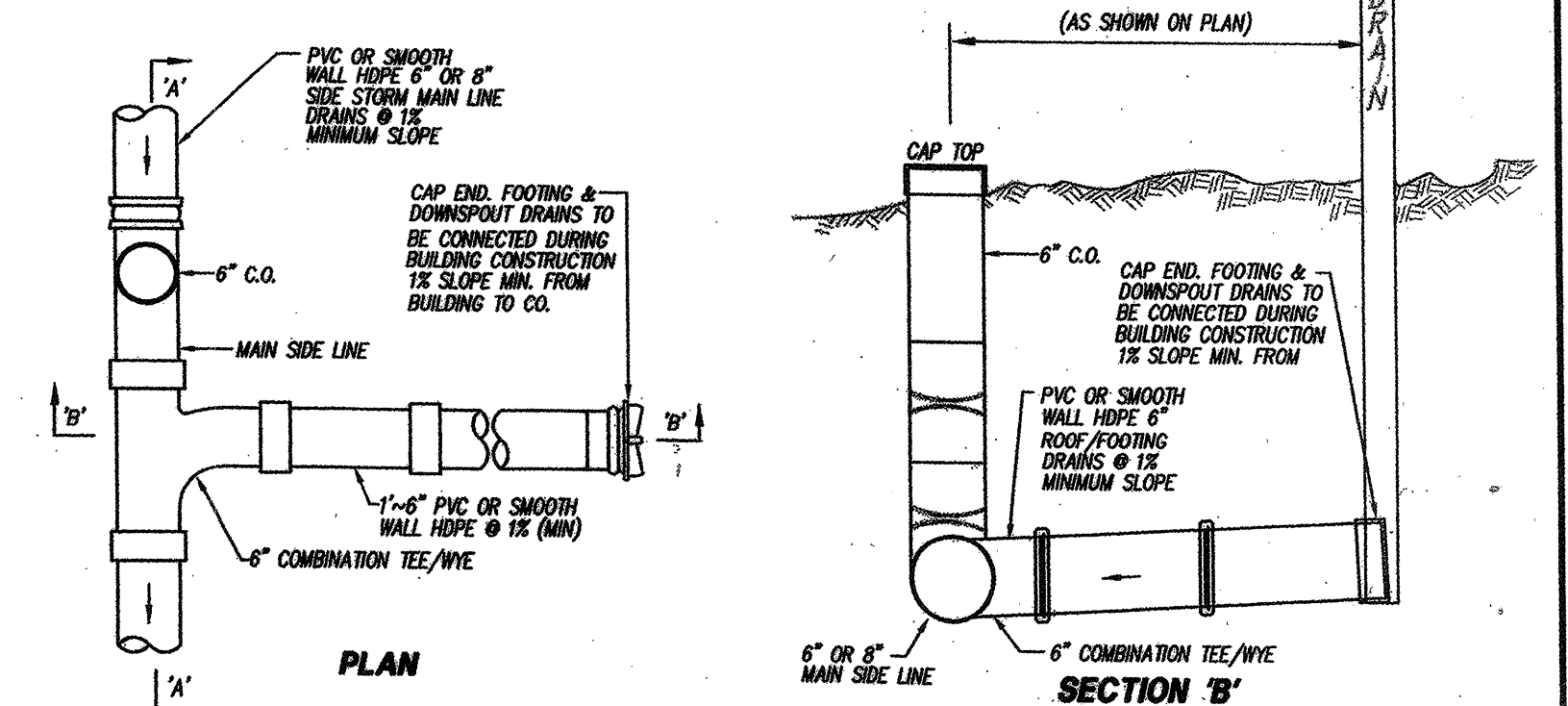
- NOTES:
1. THE OFF-STREET MONUMENT SHALL BE THE SAME EXCEPT USING A NO. 8 REBAR AND WITHOUT A CASE AND COVER. THE OFF-STREET MONUMENT SHALL BE 3" ABOVE GRADE.
 2. MONUMENT CASE AND COVER SHALL BE CAST IRON.
 3. BRASS DISC SHALL BEAR LAND SURVEYOR'S REGISTRATION NUMBER.



MONUMENT IN CASE
N.T.S.



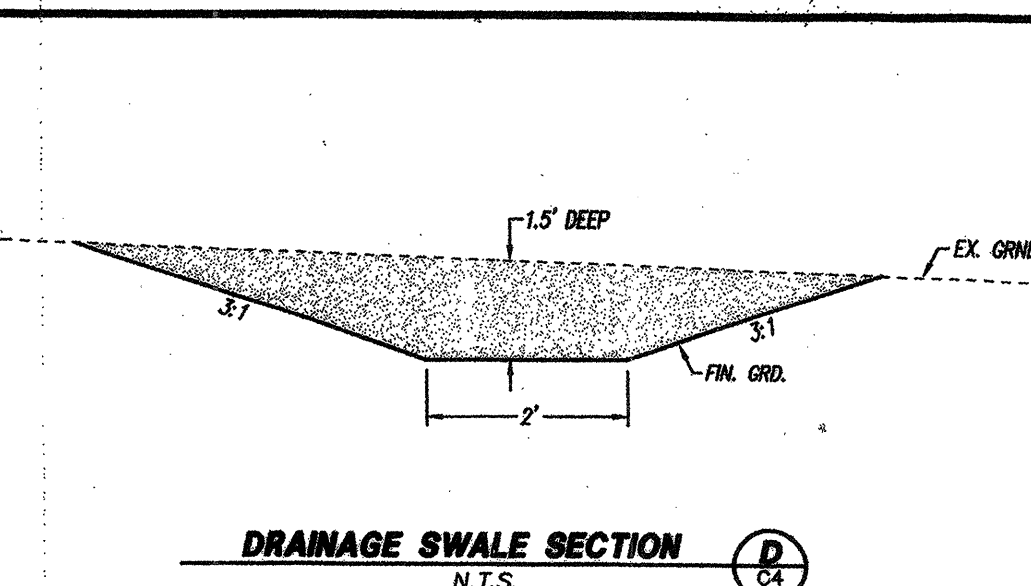
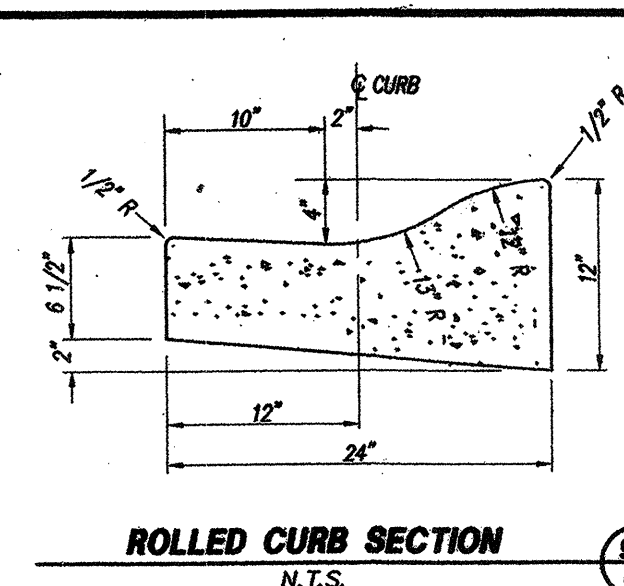
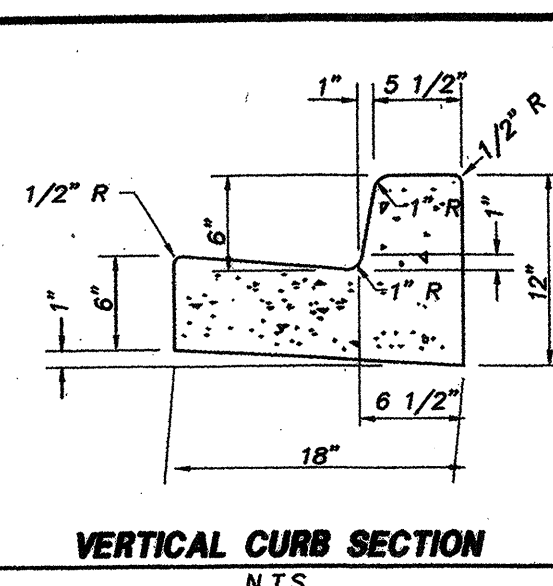
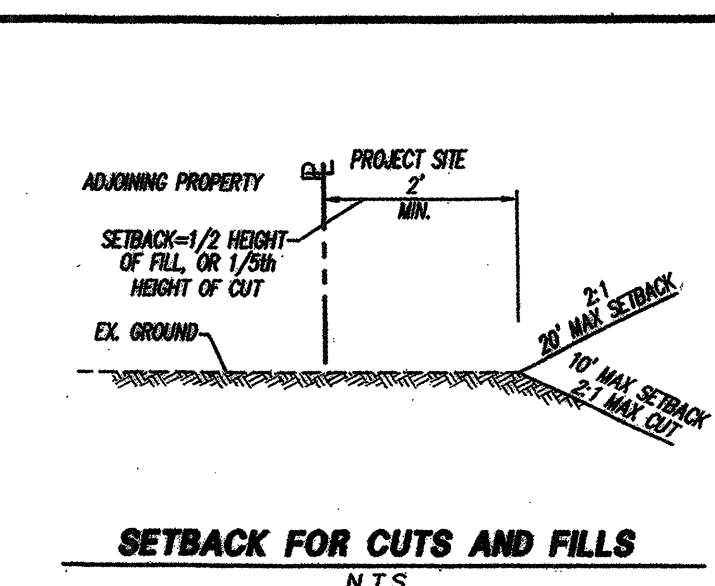
ALL INSPECTION PORTS TO BE AS-BUILT WITH STATION AND INVERT ELEVATION. CONTRACTOR TO RECORD DEPTH OF PIPE FROM TOP OF CAP TO INVERT AND PROVIDE THIS INFORMATION TO ENGINEER.



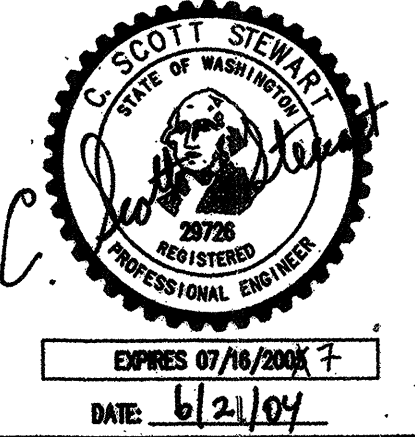
SIDE STORM SYSTEM DETAILS
N.T.S.

SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES APPROVED FOR CONSTRUCTION		DATE	REVISION/ISSUED
BY: <i>[Signature]</i> FOR: RICHARD R. STEIN, P.E., P.S. R/W PERMIT NO.: 04-114872		4/1/04	ISSUED
		6/18/04	PER COUNTY REVIEW
		7/13/04	PER COUNTY REVIEW
		7/19/05	AS-BUILT
		8/22/05	REVISED PER SNO CO 1ST AB REVIEW

PFN: 03-109825 APPLETREE NORTH 43rd DR SE & 140th ST SE ROAD PROFILES / DETAILS		PROJECT NO. 03496 DWG C5 OF 8
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PEAK ENGINEERING INC.
1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 FAX: (360) 658-7826

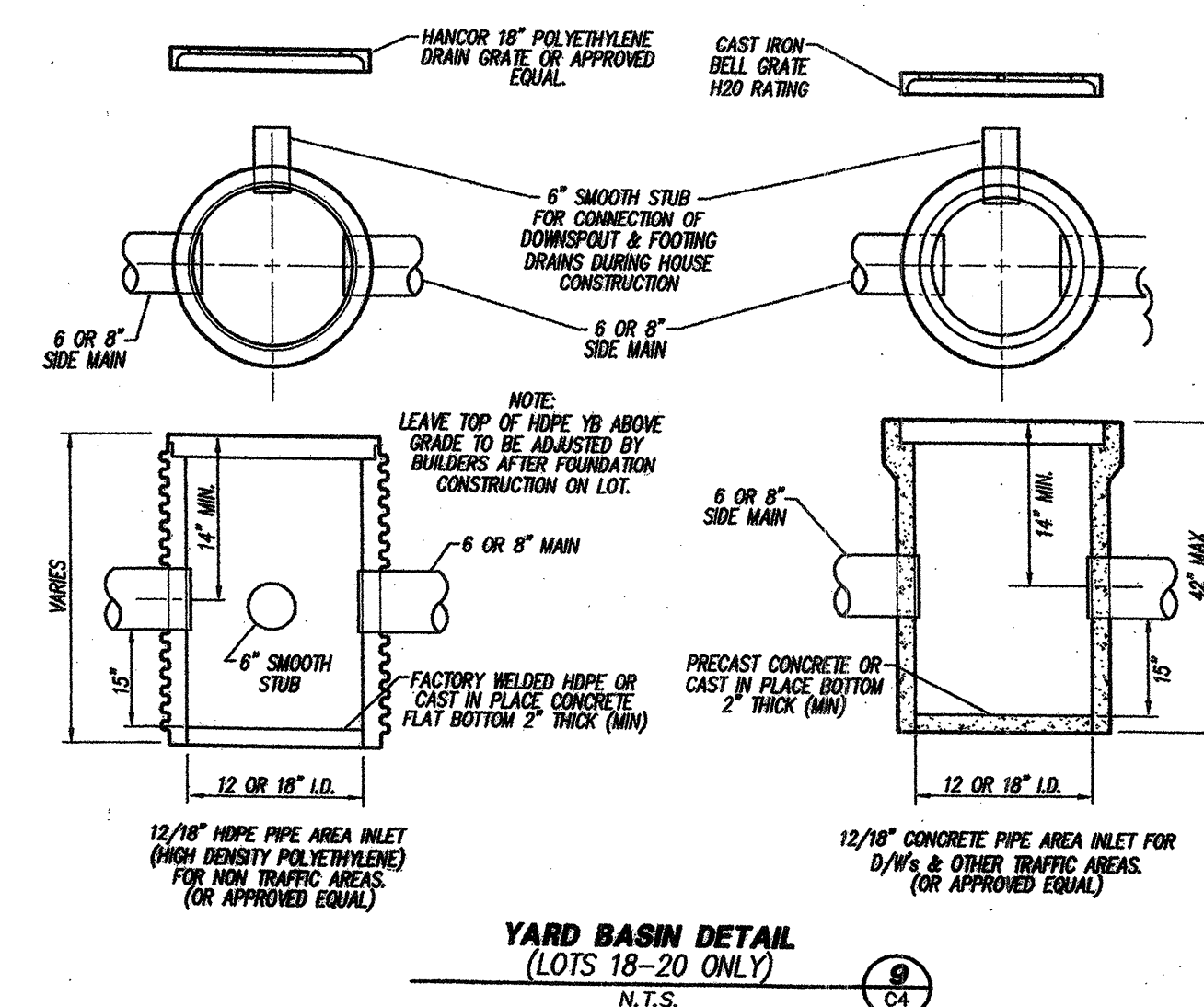
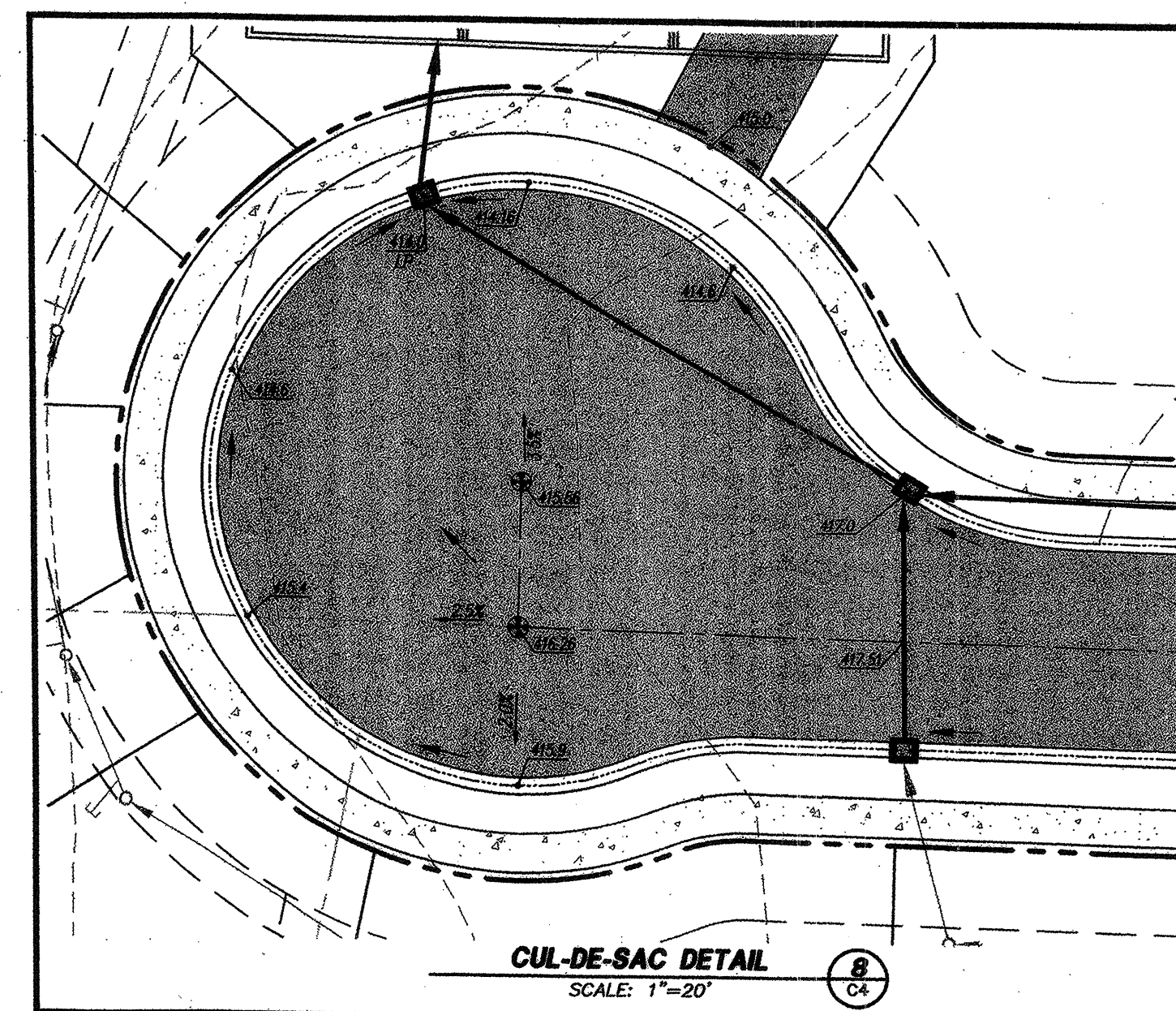
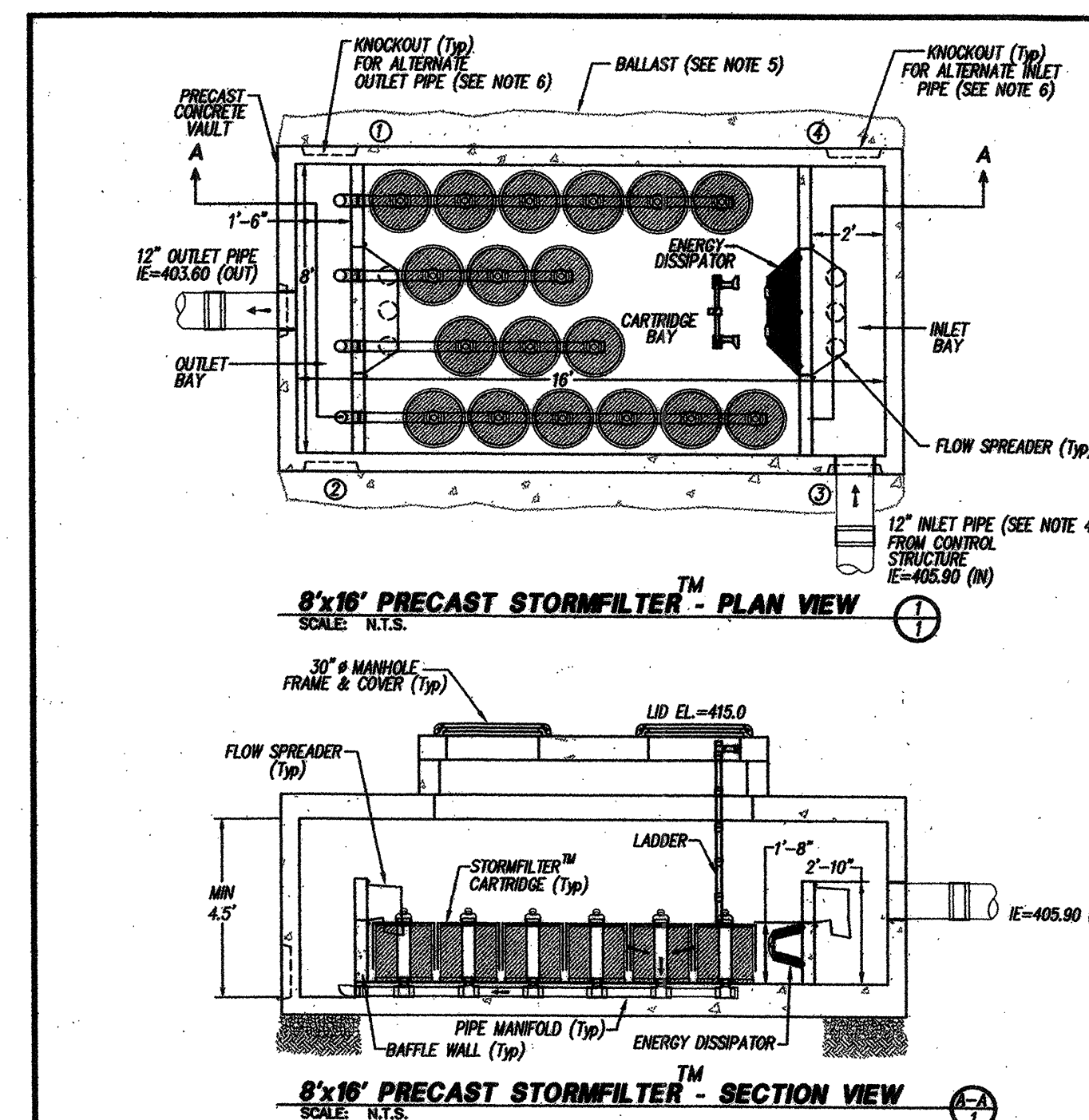
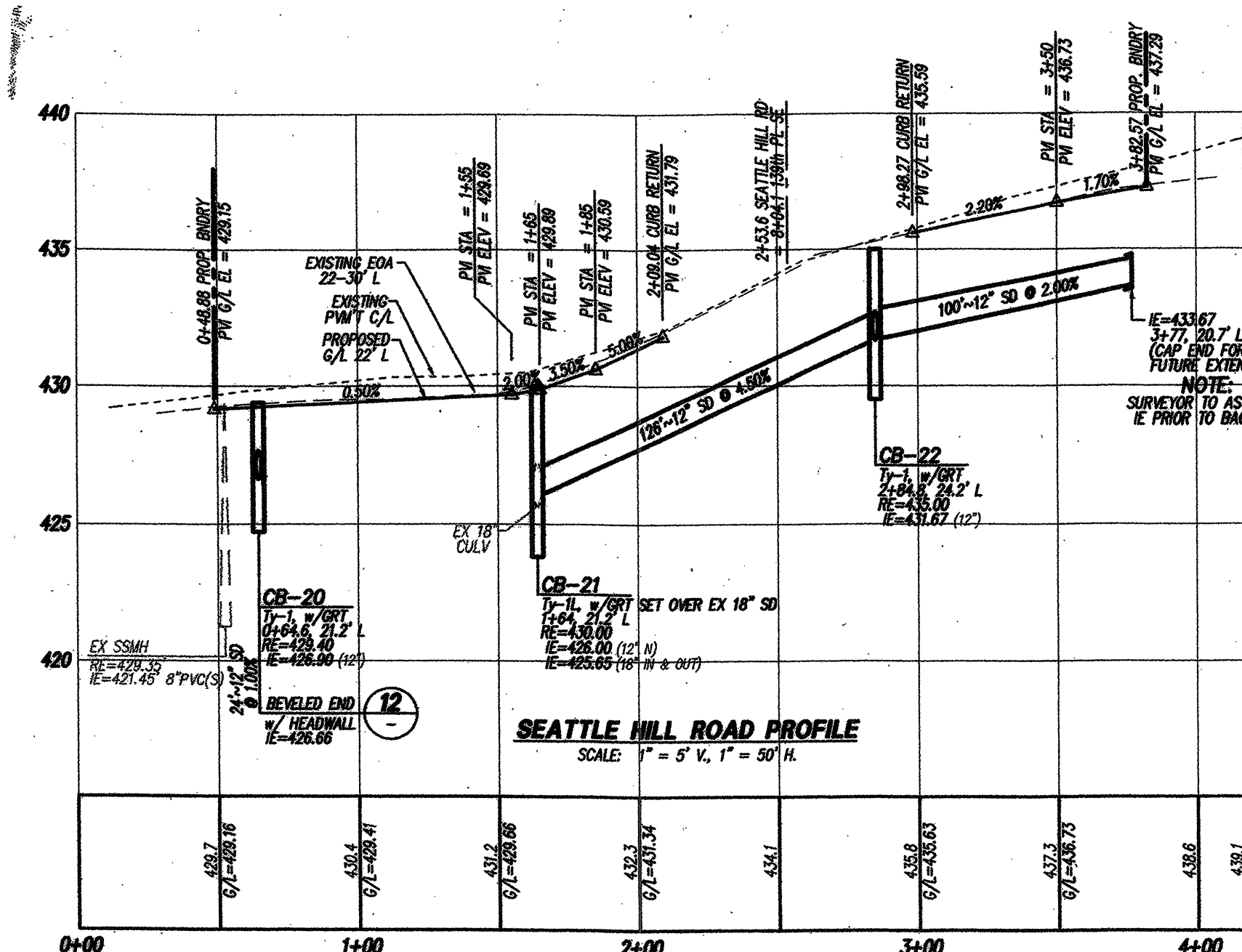
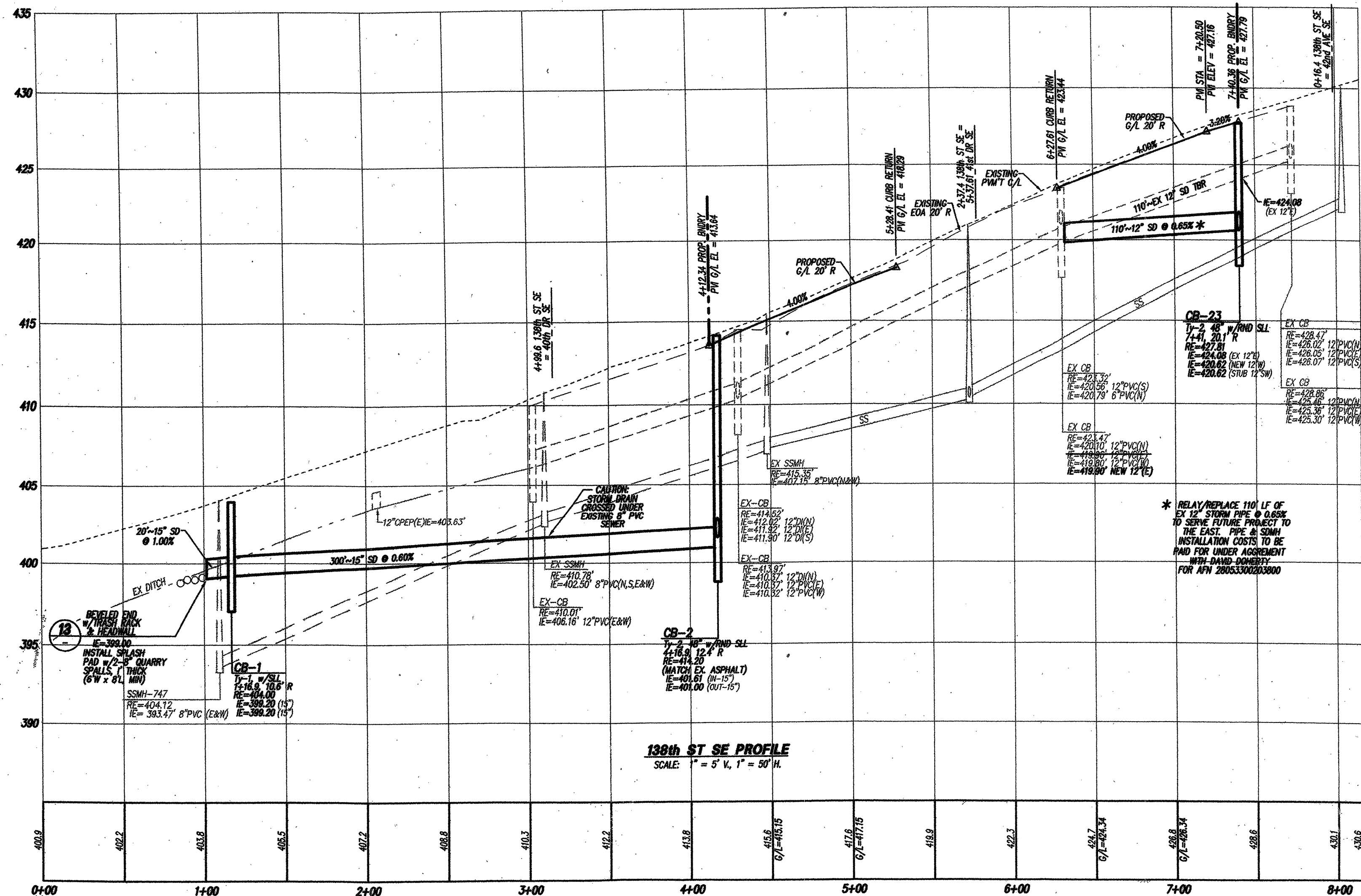


SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:
MEAD GILMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 280
WOODVILLE, WA 98072
PH: 425-486-1252
FAX: 425-486-6108
JOB #03655

DATUM: NAD 83 (1983 NATIONAL GEODETIC DATUM)
BENCH: SNOHOMISH COUNTY BENCHMARK 303/769
CHISELED "X" IN SE. COR. OF TRAFFIC SIGNAL BASE, NW QUADRANT N.T.S. 13900 ST. SE & SEATTLE HILL RD.
ELEVATION: 437.25'
ADD 3.6 TO CONVERT TO NAVD 83
TBM-A: "X" IN SW COR. BOLT FIRE HYDRANT, NE QUADRANT N.T.S. 13900 ST. SE & 43RD AVE. SE.
ELEVATION: 433.52'
TBM-B: CHISELED SQUARE IN SE COR. POWER VAULT, SW COR. SITE.
ELEVATION: 415.91'

AS-BUILT DECLARATION
WE HEREBY DECLARE THAT ROAD AND STORM DRAINAGE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE RECORD DRAWINGS.
BY: *[Signature]*
PROJECT ENGINEER: *[Signature]*
DATE: 8-25-05
BY: *[Signature]*
PLAT DEVELOPER / OWNER: *[Signature]*
DATE: 8/25/05

THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.



8' X 16' PRECAST STORMFILTER™ DATA				RW ELEVATION(S)	
DESIGN WATER QUALITY FLOW (cfs)	0.06			① = 415.0	② = 415.00
PEAK FLOW (cfs)	5.44cfs			③ = 415.0	④ = 415.00
RETURN PERIOD OF PEAK FLOW (yr)	6 MONTH				
# OF CARTRIDGES REQUIRED	18 EA				
MEDIA TYPE	PERLITE				
(In-Out)=2.3' Min.	I.E.	MATERIAL	DIAMETER	ADJUSTABLE LID	YES
INLET PIPE	405.90	M12	12"	LADDER	YES
OUTLET PIPE	403.60	M12	12"	ANTI-FLOATATION BALLAST (USE N/A IF NOT REQUIRED)	WIDTH
NOTES/SPECIAL REQUIREMENTS:				HEIGHT	

STORMWATER MANAGEMENT INC.
StormFilter®
U.S. PATENT No. 5,322,629,
No. 5,624,576, No. 5,707,527
AND OTHER U.S. AND
FOREIGN PATENTS PENDING

OR APPROVED EQUAL
WATER QUALITY VAULT SECTIONS & DETAILS
N.T.S.

GENERAL NOTES

- 1) STORMFILTER by STORMWATER MANAGEMENT, PORTLAND, OREGON (503-240-3393).
- 2) ALL STORMFILTERS REQUIRE REGULAR MAINTENANCE. REFER TO OPERATION AND MAINTENANCE GUIDELINES FOR DETAILS.
- 3) PRECAST CONCRETE VAULT TO BE CONSTRUCTED IN ACCORDANCE WITH ASTM C898.
- 4) INLET AND OUTLET PIPING TO BE SPECIFIED BY ENGINEER AND PROVIDED BY CONTRACTOR.
- 5) ANTI-FLOATATION BALLAST TO BE SPECIFIED BY ENGINEER. BALLAST TO BE SET ALONG ENTIRE LENGTH OF BOTH SIDES OF VAULT. BALLAST MATERIALS TO BE PROVIDED BY CONTRACTOR.
- 6) PRECAST STORMFILTER EQUIPPED WITH KNOCKOUTS AT ALL INLET/OUTLET LOCATIONS. CORINGS AVAILABLE WHEN SPECIFIED.
- 7) DETAIL REFLECTS DESIGN INTENT ONLY. ACTUAL VAULT DIMENSIONS AND CONFIGURATION WILL BE SHOWN ON THE PRODUCTION SHOP DRAWING.

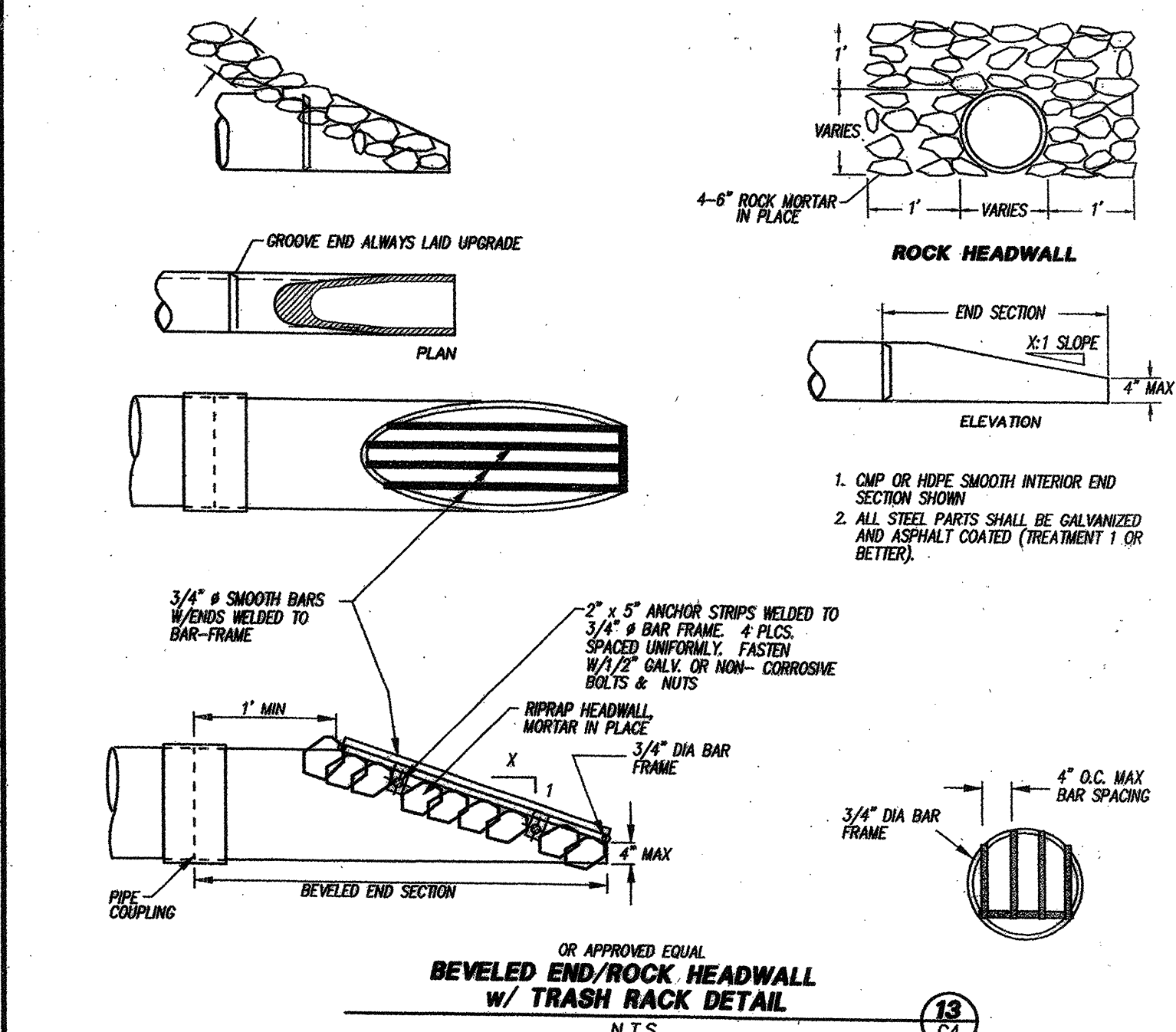
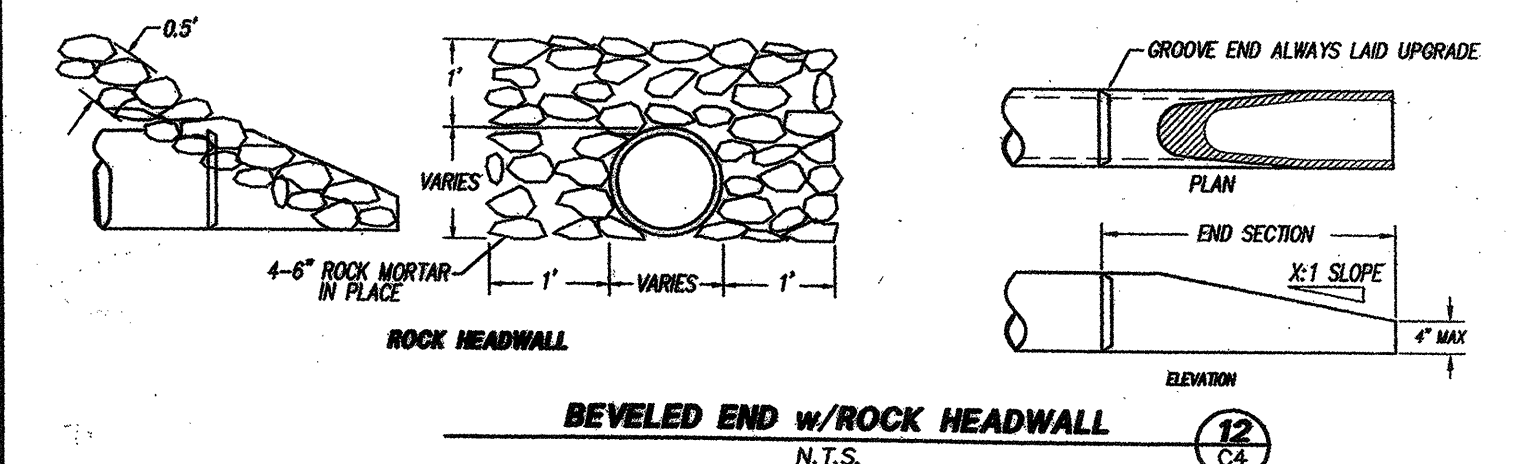
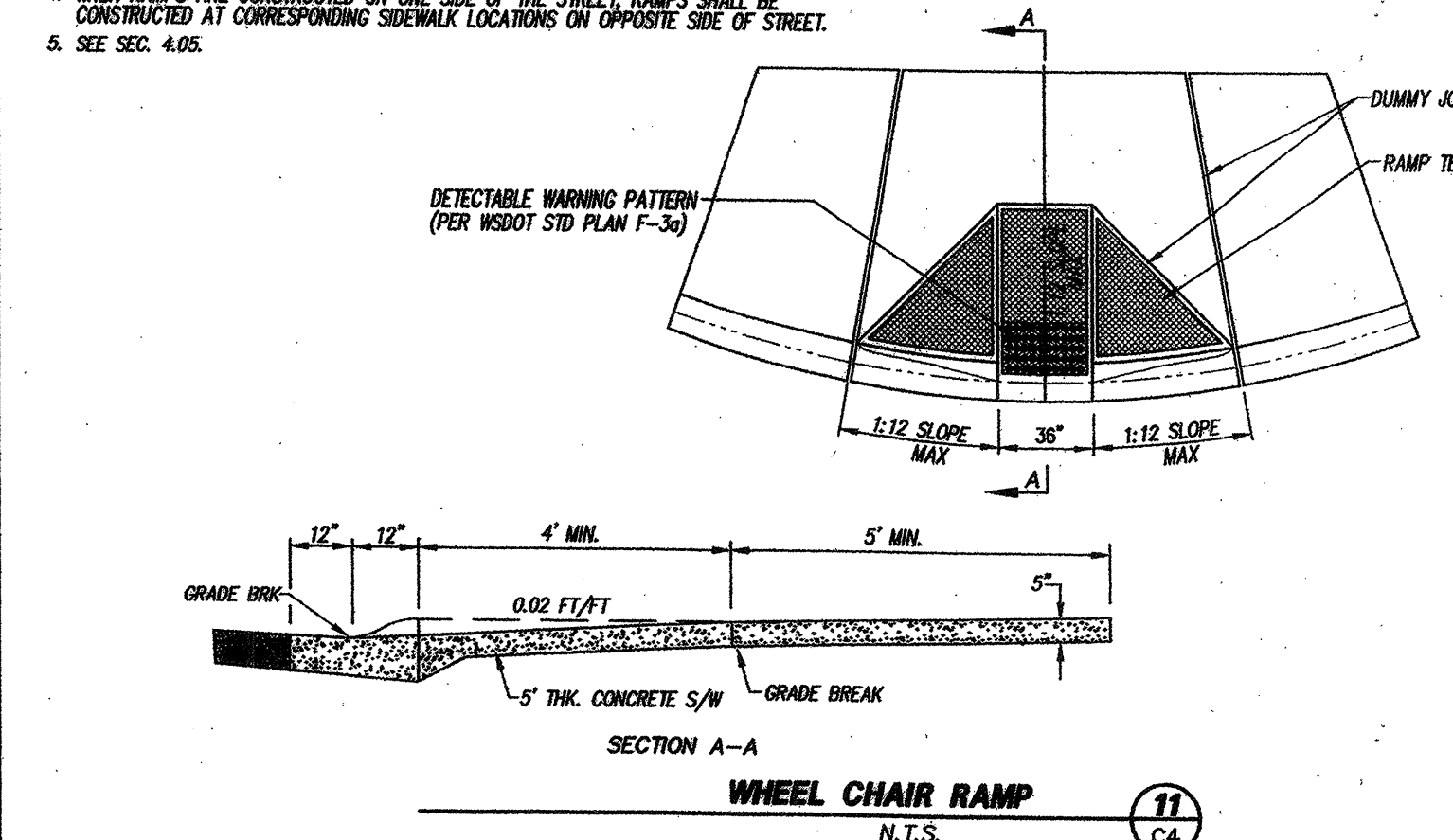
AS-BUILT DECLARATION

WE HEREBY DECLARE THAT ROAD AND STORM DRAINAGE IMPROVEMENTS ARE LOCATED AS SHOWN ON THESE RECORD DRAWINGS.

BY: *R. E. H. O.* 8-25-05
PROJECT ENGINEER
DATE
BY: *E. E.* 8/25/05
DATE
FLAT DEVELOPER / OWNER

CALL 48 HOURS BEFORE YOU DIG 1-800-424-5855
THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE TIME PRIOR TO THE START OF CONSTRUCTION.

- NOTES:
1. RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCL. HYDRANTS, POLES, AND INLETS.
 2. RAMP SHALL BE TEXTURED BY IMPRINT OF METAL GRID WITH 1/2" SPACING. RAMP SHALL HAVE A DETECTABLE WARNING PATTERN AS PER WSDOT STD PLAN F-30.
 3. RAMP CENTER LINE SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY ENGINEER.
 4. WHEN RAMPS ARE CONSTRUCTED ON ONE SIDE OF THE STREET, RAMPS SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREET.
 5. SEE SEC. 4.05.



SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES
APPROVED FOR CONSTRUCTION

BY: *R. E. H. O.* 7/19/2004
FOR RANDOLPH R. REIGHT, A.E., P.L.S.

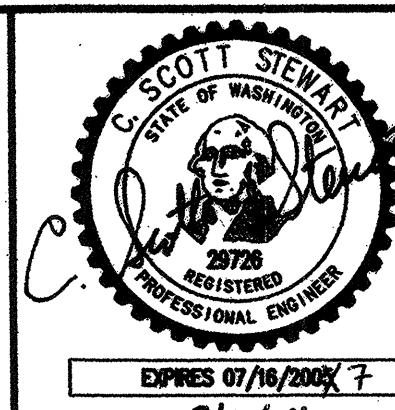
R/W PERMIT NO.: 04-214872

DATE	REVISION/ISSUED
4/1/04	ISSUED
6/18/04	PER COUNTY REVIEW
7/13/04	PER COUNTY REVIEW
7/13/05	AS-BUILT
8/22/05	REVISED PER SNO CO. 1ST AS-BUILT REVIEW

PFN: 03-109825 AS-BUILT
APPLETREE NORTH
138th ST SE & SEATTLE HILL
ROAD PROFILES / DETAILS

PROJECT NO.
03496
DWG
C6
OF 8

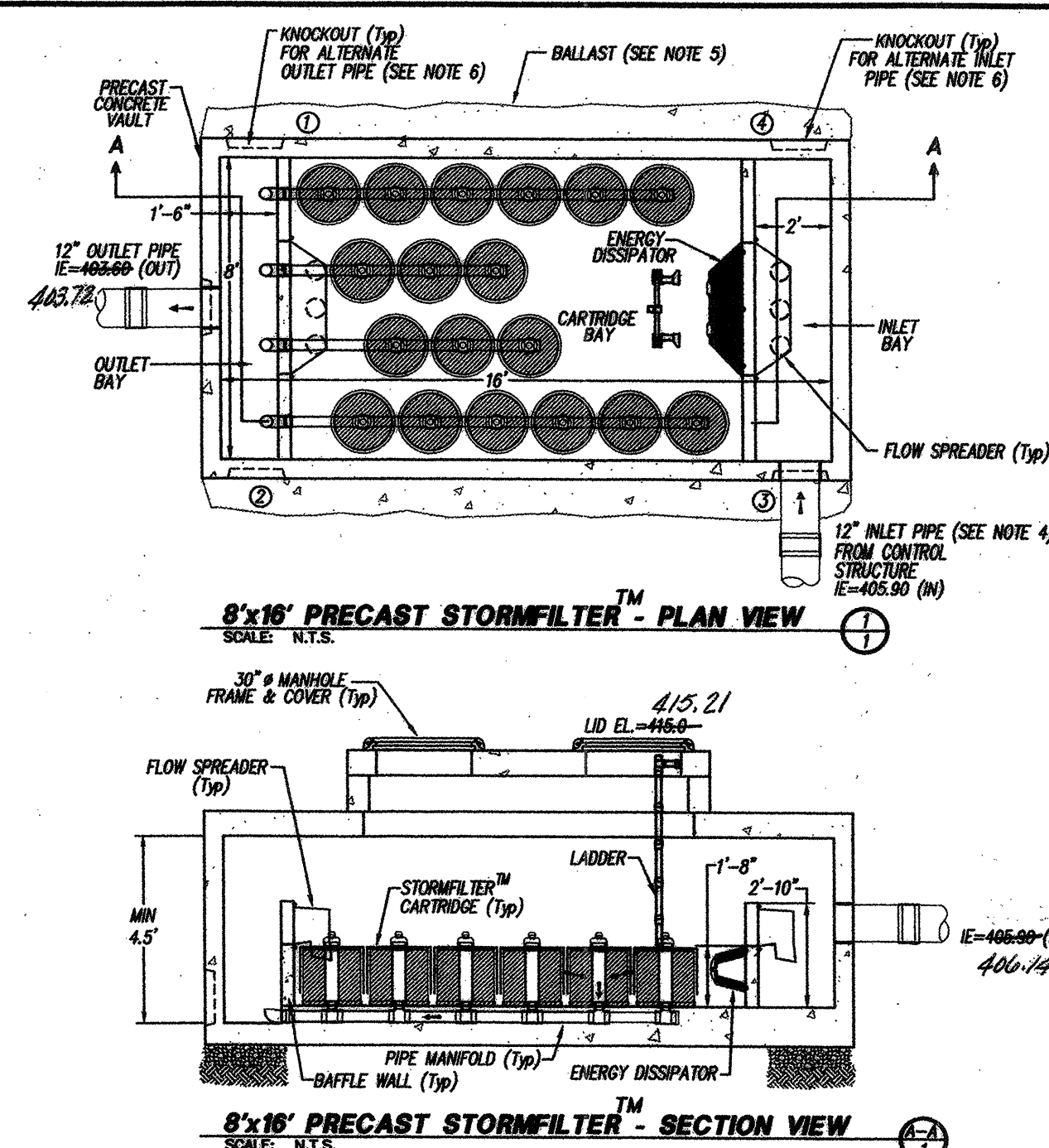
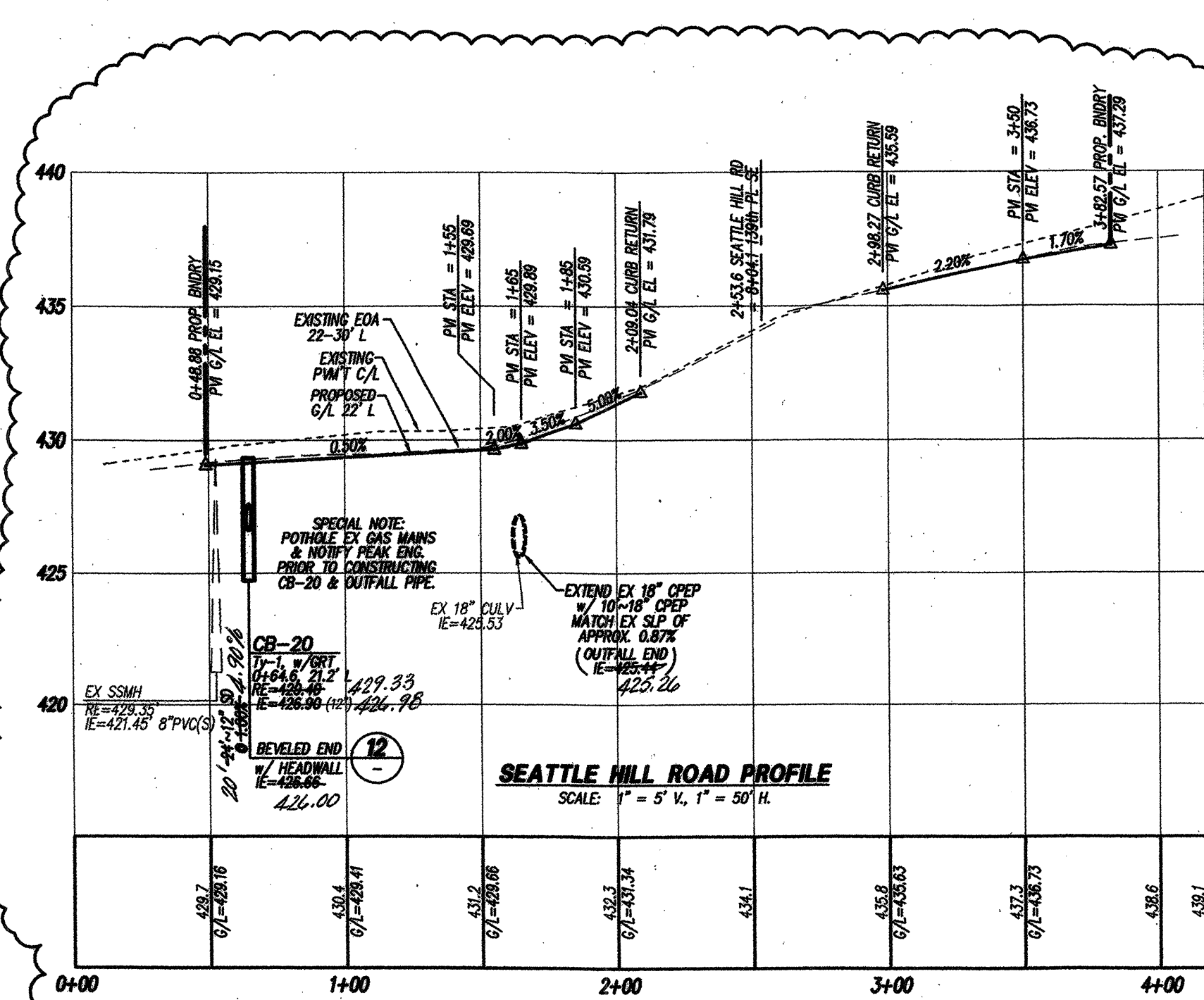
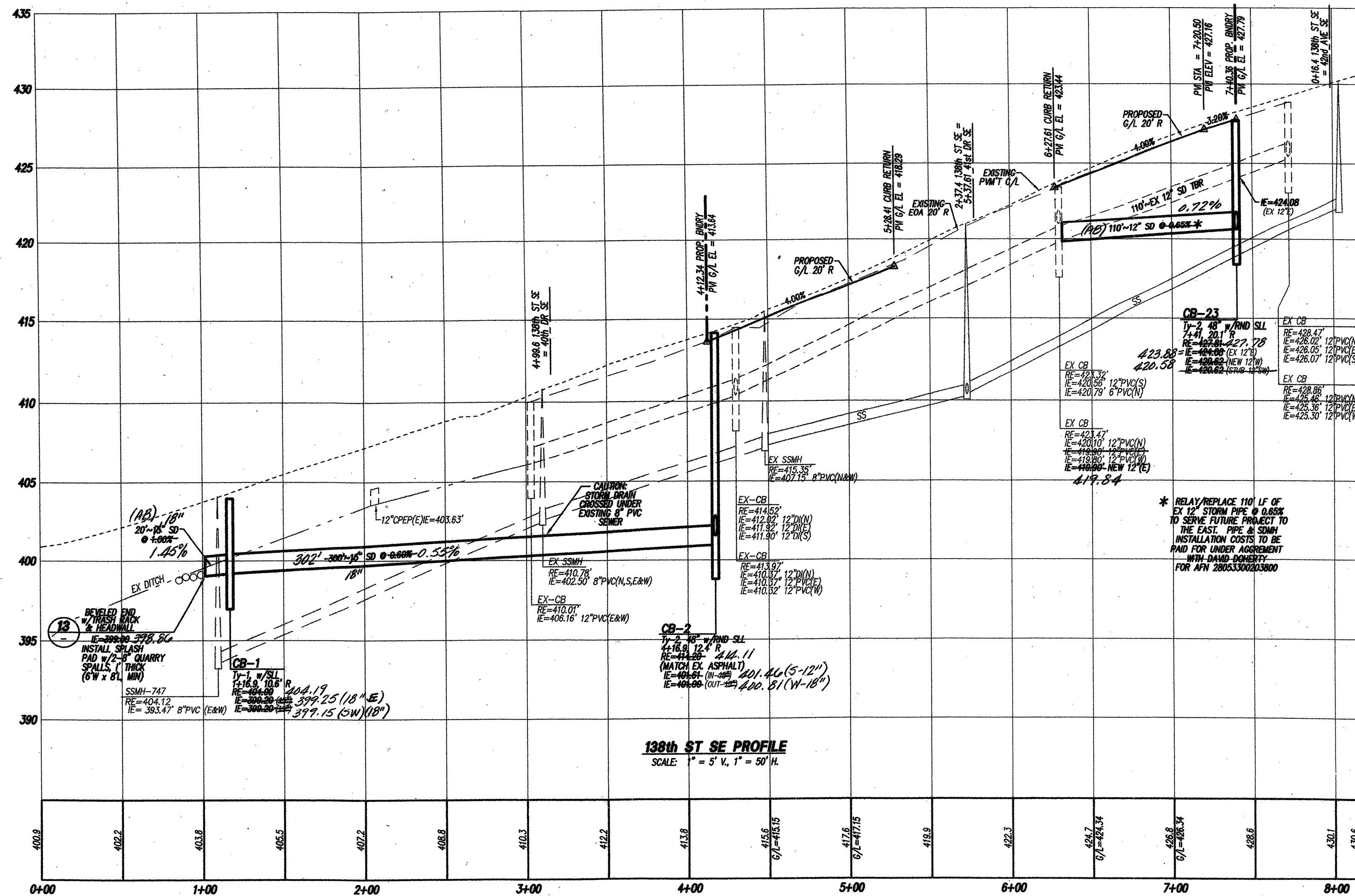
PEAK ENGINEERING INC.
1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6986 FAX: (360) 658-7626



SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:

MEAD GLIMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 280
WOODINVILLE, WA 98072
PH: 425-486-1232
FAX: 425-486-6108
JOS #03055

DATUM: NAD 83 (1983 NATIONAL GEODETIC DATUM)
BENCH: SNOHOMISH COUNTY BENCHMARK 383/789
CHISEL "X" IN SE BOLT OF TRAFFIC SIGNAL BASE, NW QUADRANT W/ 138th ST. S.E. & SEATTLE HILL RD.
ELEVATION: 437.22
ADD 3.6 TO CONVERT TO NAVD 83
TBM-A: "X" IN SW CAP BOLT FIRE HYDRANT, NE QUADRANT INTX. 138th ST. SE & 138th AVE. SE.
ELEVATION: 433.52
TBM-B: CHISEL SQUARE IN SE COR. POWER VAULT, SW COR. SITE. ELEVATION: 415.91



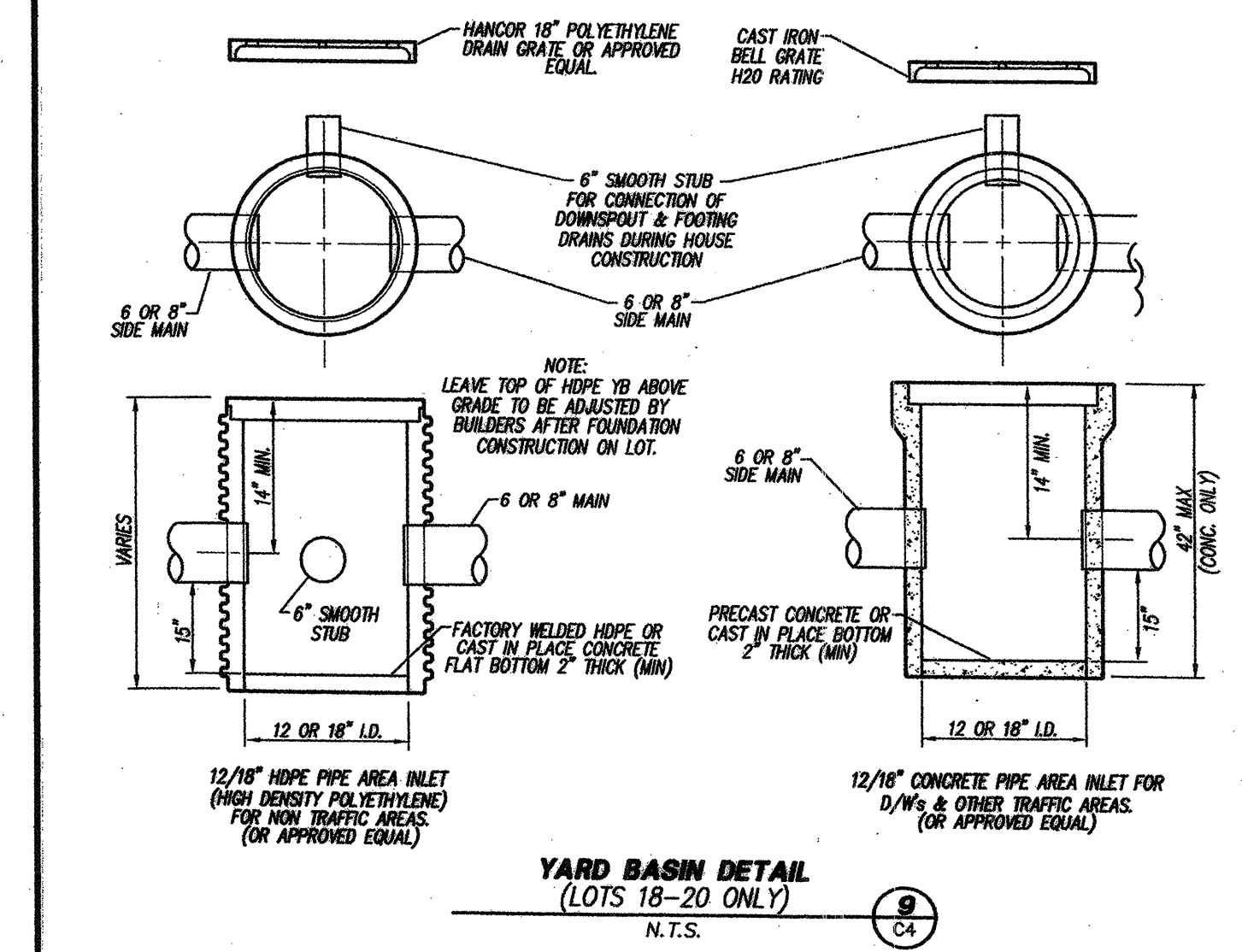
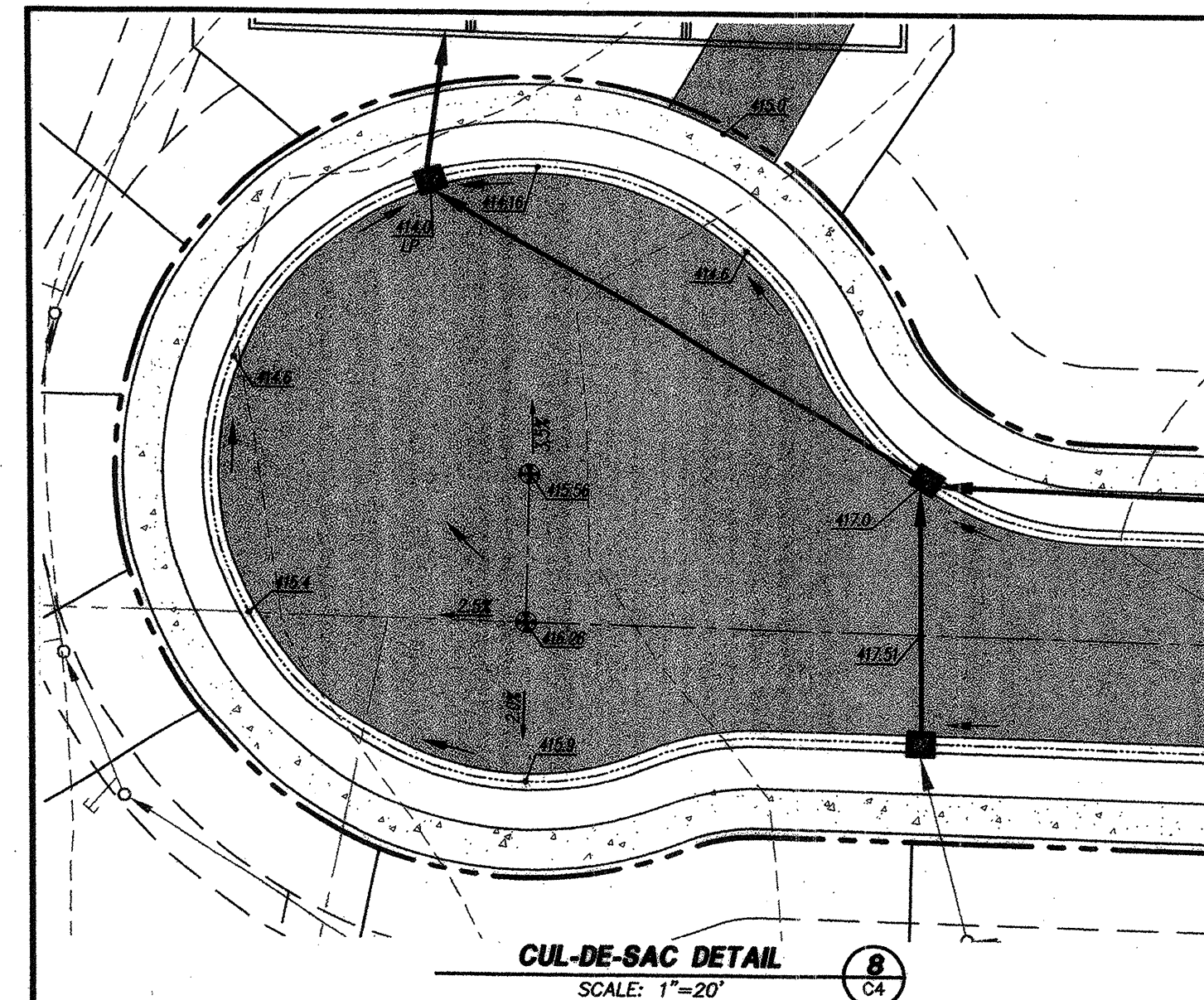
8' X 16' PRECAST STORMFILTER™ DATA			
DESIGN WATER QUALITY FLOW (cfs)	0.08	RIM ELEVATION(S):	① = 415.0
PEAK FLOW (cfs)	5.44 cfs		② = 415.0
RETURN PERIOD OF PEAK FLOW (yrs)	6 MONTH		③ = 415.0
# OF CARTRIDGES REQUIRED	18 EA	DOOR OPENING DIRECTION: 4:1 (FACING DOWNSTREAM - SEE FIGURE ABOVE)	
MEDIA TYPE	PERLITE		
(In-Outlet) = 2.5" Min.	I.E.	MATERIAL	ADJUSTABLE LID
INLET PIPE	426.14	DIAMETER	YES
OUTLET PIPE	403.72	12"	YES
	400.00	ANTI-FLOATATION BALLAST (USE N/A IF NOT REQUIRED)	WIDTH
			HEIGHT
			N/A

STORMWATER MANAGEMENT INC.
StormFilter®
U.S. PATENT No. 5,322,629;
No. 5,624,576; No. 5,707,527
AND OTHER U.S. AND
FOREIGN PATENTS PENDING

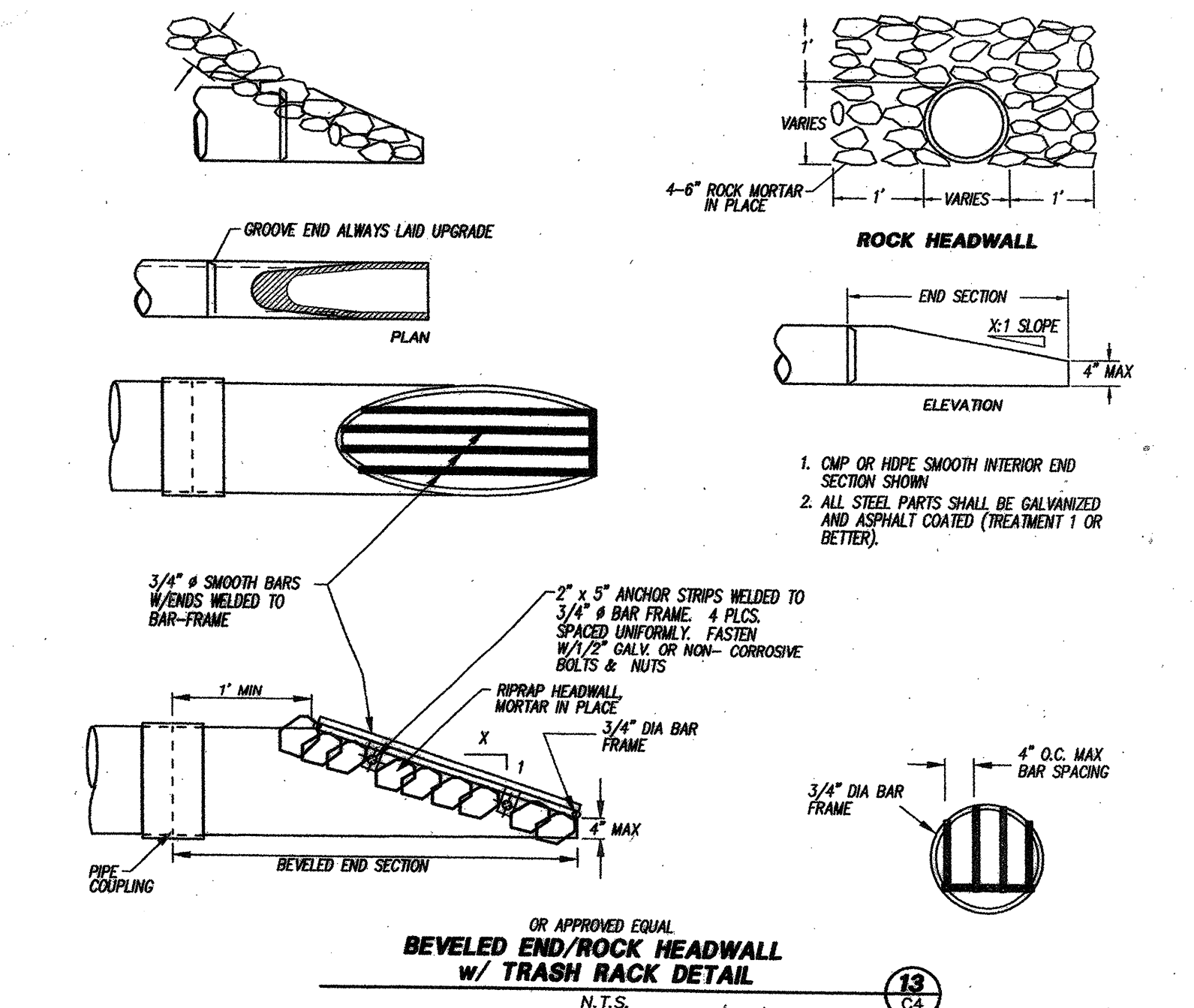
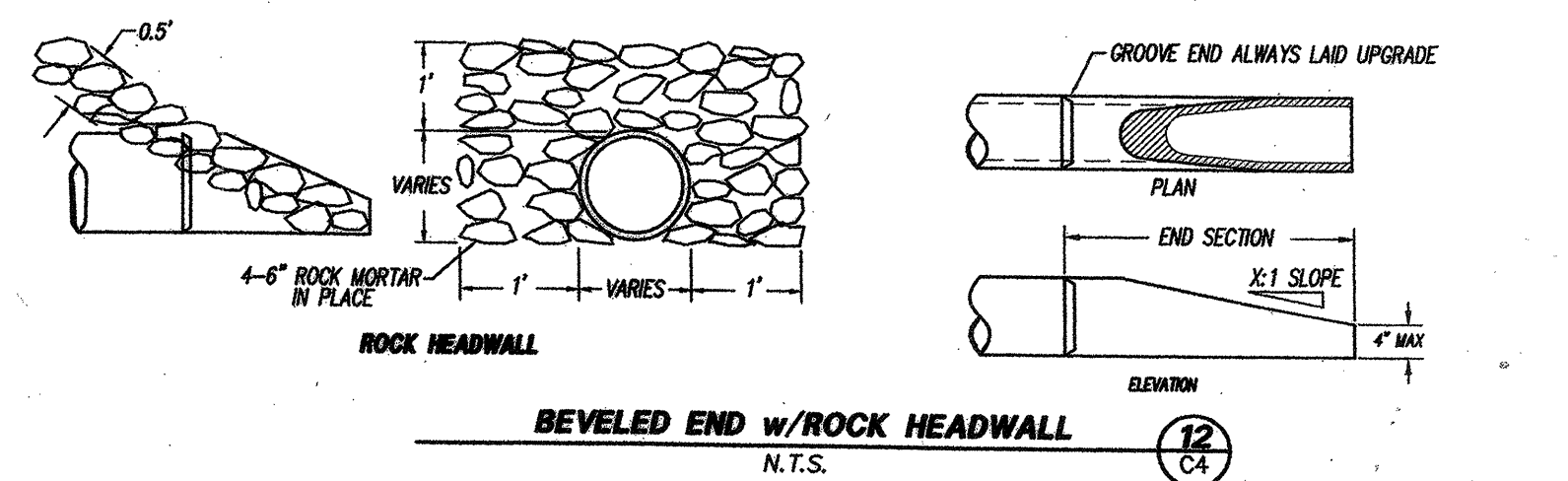
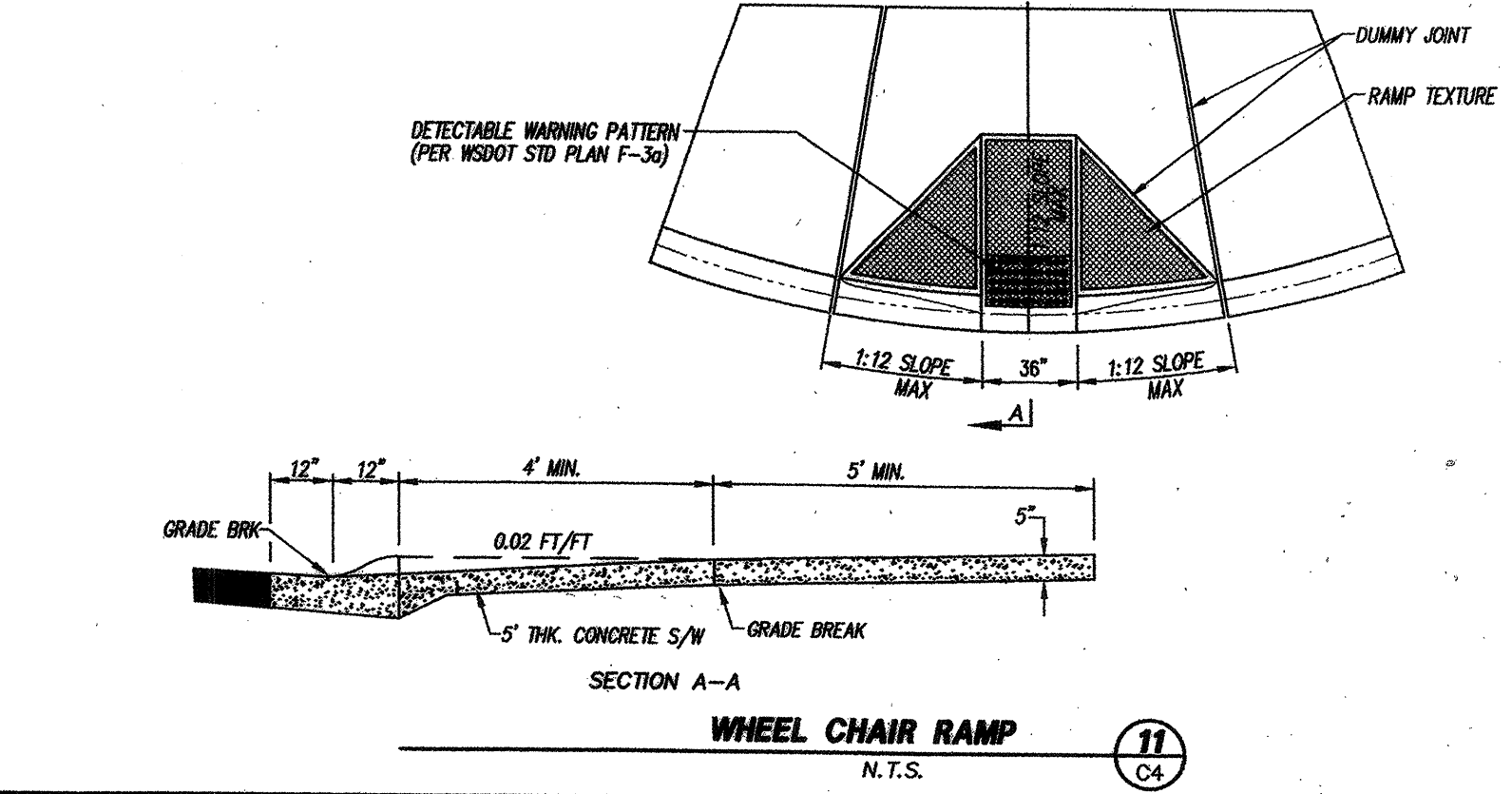
OR APPROVED EQUAL
WATER QUALITY VAULT SECTIONS & DETAILS
N.T.S.

DATUM: NSD (1929 NATIONAL GEODETIC VERTICAL DATUM)
BENCH: SNOHOMISH COUNTY BENCHMARK 383.789
CHISELED "X" IN SE BOLT OF TRAFFIC SIGNAL BASE, NW
QUADRANT INTX 138th ST. SE & SEATTLE HILL RD.
ELEVATION = 432.25
ADD 3.6 TO CONVERT TO NAVD 88
TBM-A: "X" IN SW COR BOLT FIRE HYDRANT, NE QUADRANT INTX
138th ST. SE & 42ND AVE. SE
ELEVATION = 433.52
TBM-B: CHISELED SQUARE IN SE COR. POWER VAULT, SW COR. SITE.
ELEVATION = 415.91

AS-BUILT DECLARATION
WE HEREBY DECLARE THAT ROAD AND STORM DRAINAGE IMPROVEMENTS
ARE LOCATED AS SHOWN ON THESE RECORD DRAWINGS.
BY: *R.E.H.O.* 8-25-05
PROJECT ENGINEER DATE
BY: *S.M.S.* 8/25/05
DATE
CALL 48 HOURS BEFORE YOU DIG 1-800-424-5555
THE CONTRACTOR SHALL VERIFY THE LOCATION OF
ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES
INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE
TIME PRIOR TO THE START OF CONSTRUCTION.



- NOTES:
1. RAMP AND APPROACHES SHALL BE CLEAR OF OBSTACLES INCL. HYDRANTS, POLES, AND INLETS.
2. RAMP SHALL BE TEXTURED BY IMPRINT OF METAL GRID WITH 1/2" SPACING. RAMP SHALL HAVE A DETECTABLE WARNING PATTERN AS PER NSD STD PLAN F-36.
3. RAMP CENTER LINE SHALL BE PERPENDICULAR TO OR RADIAL TO CURB RETURNS UNLESS OTHERWISE APPROVED BY ENGINEER.
4. WHEN RAMP IS CONSTRUCTED ON ONE SIDE OF THE STREET, RAMP SHALL BE CONSTRUCTED AT CORRESPONDING SIDEWALK LOCATIONS ON OPPOSITE SIDE OF STREET.
5. SEE SEC. 4.05.



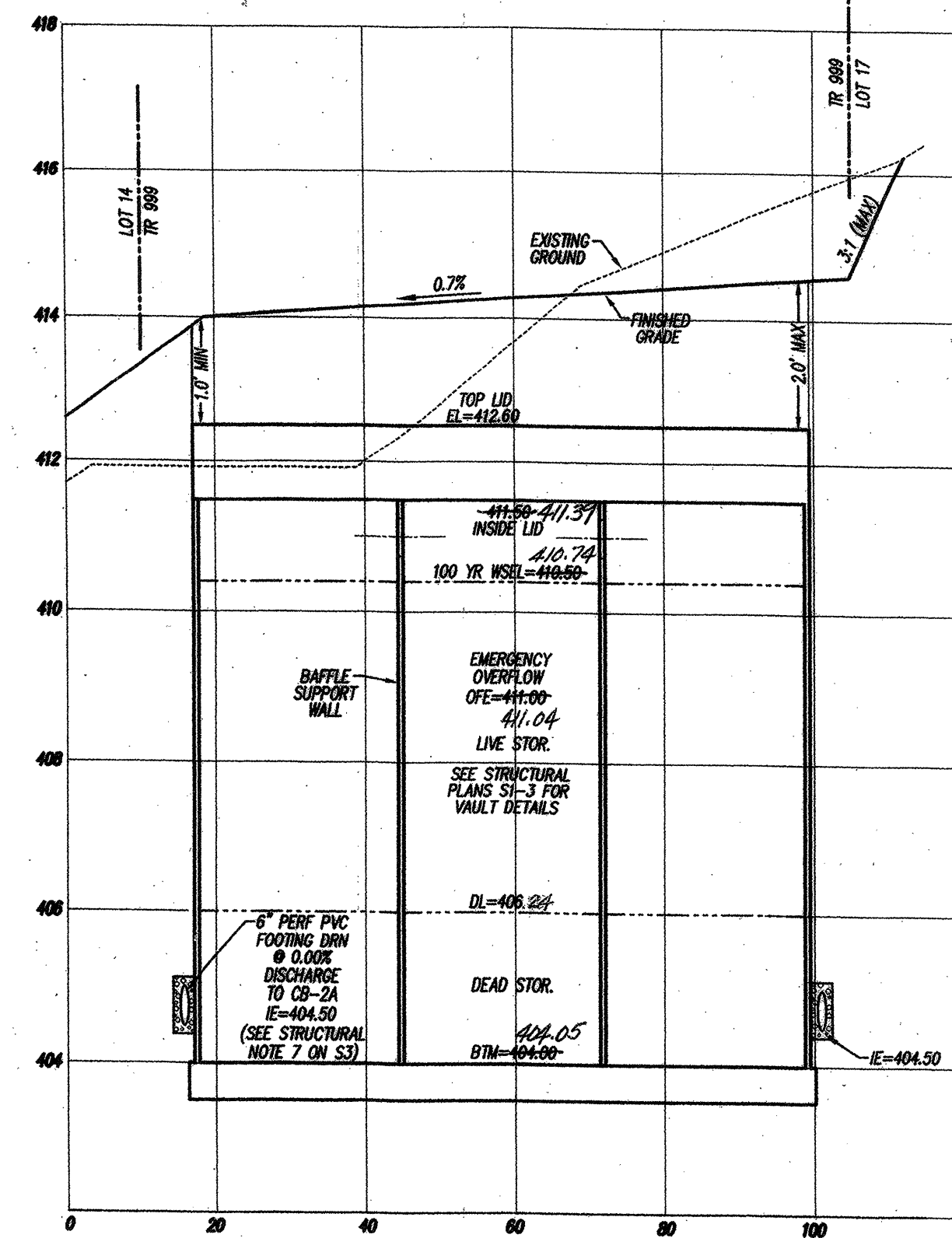
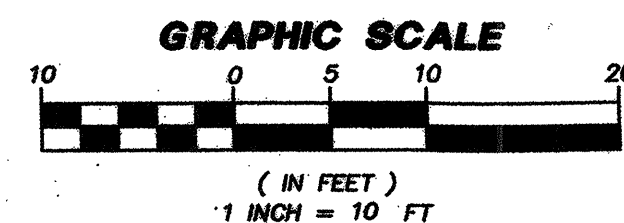
SNOHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES APPROVED FOR CONSTRUCTION	
DATE	REVISION/ISSUED
4/1/04	ISSUED
6/18/04	PER COUNTY REVIEW
7/13/04	PER COUNTY REVIEW
3/25/05	PER SD/GAS MAIN CONFLICTS
7/13/05	AS-BUILT

PFN: 03-109825 *AS-BUILT*
APPLETREE NORTH
SD/GAS CONFLICT REVISION TO
138th ST SE & SEATTLE HILL
ROAD PROFILES / DETAILS
PROJECT NO. 03496
DWG C6A
OF 8

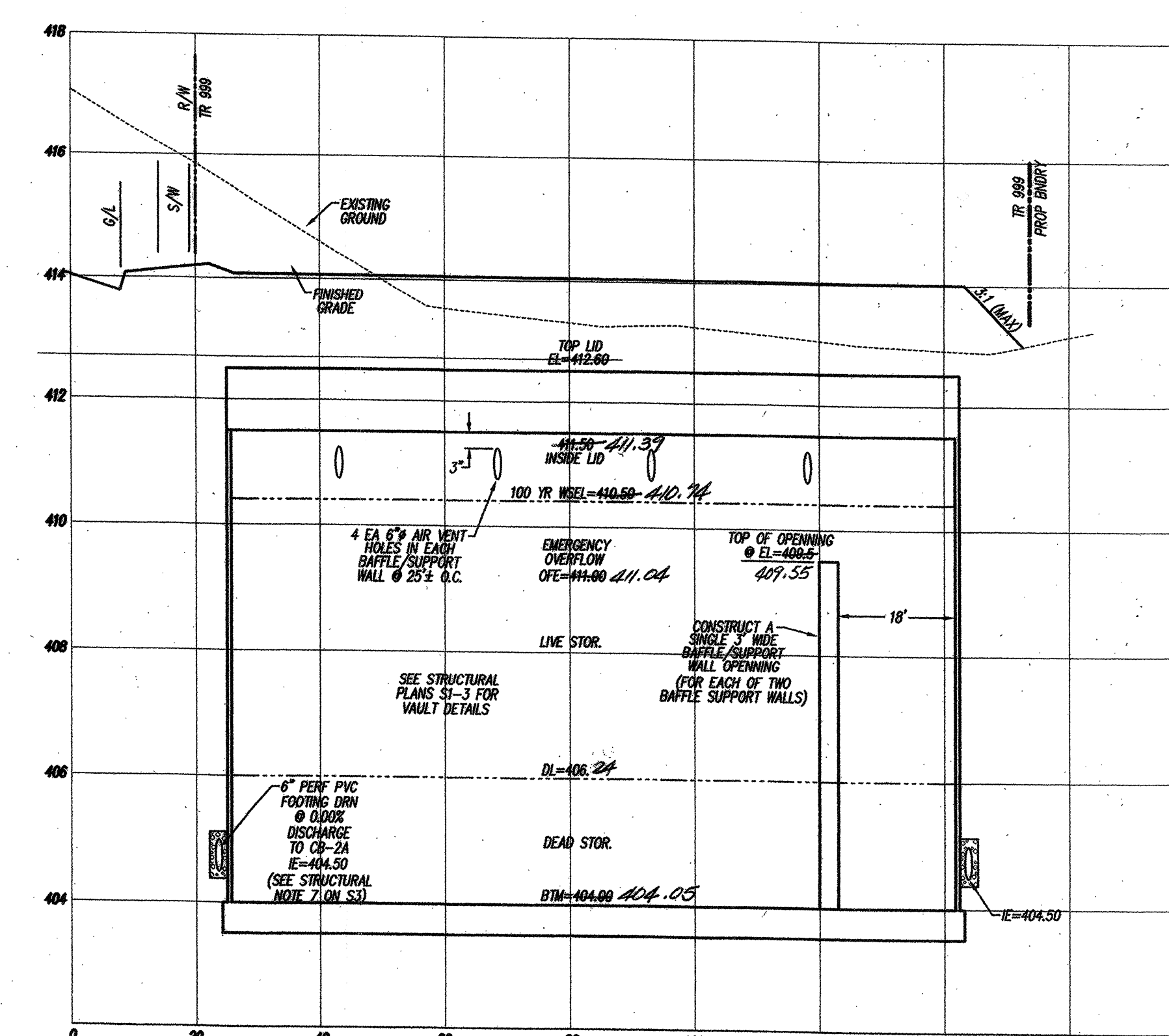
PEAK ENGINEERING INC.
1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6966 FAX: (360) 658-7826

C. SCOTT STEWART
REGISTERED PROFESSIONAL ENGINEER
EXPIRES 07/16/2005
DATE: 3/25/05

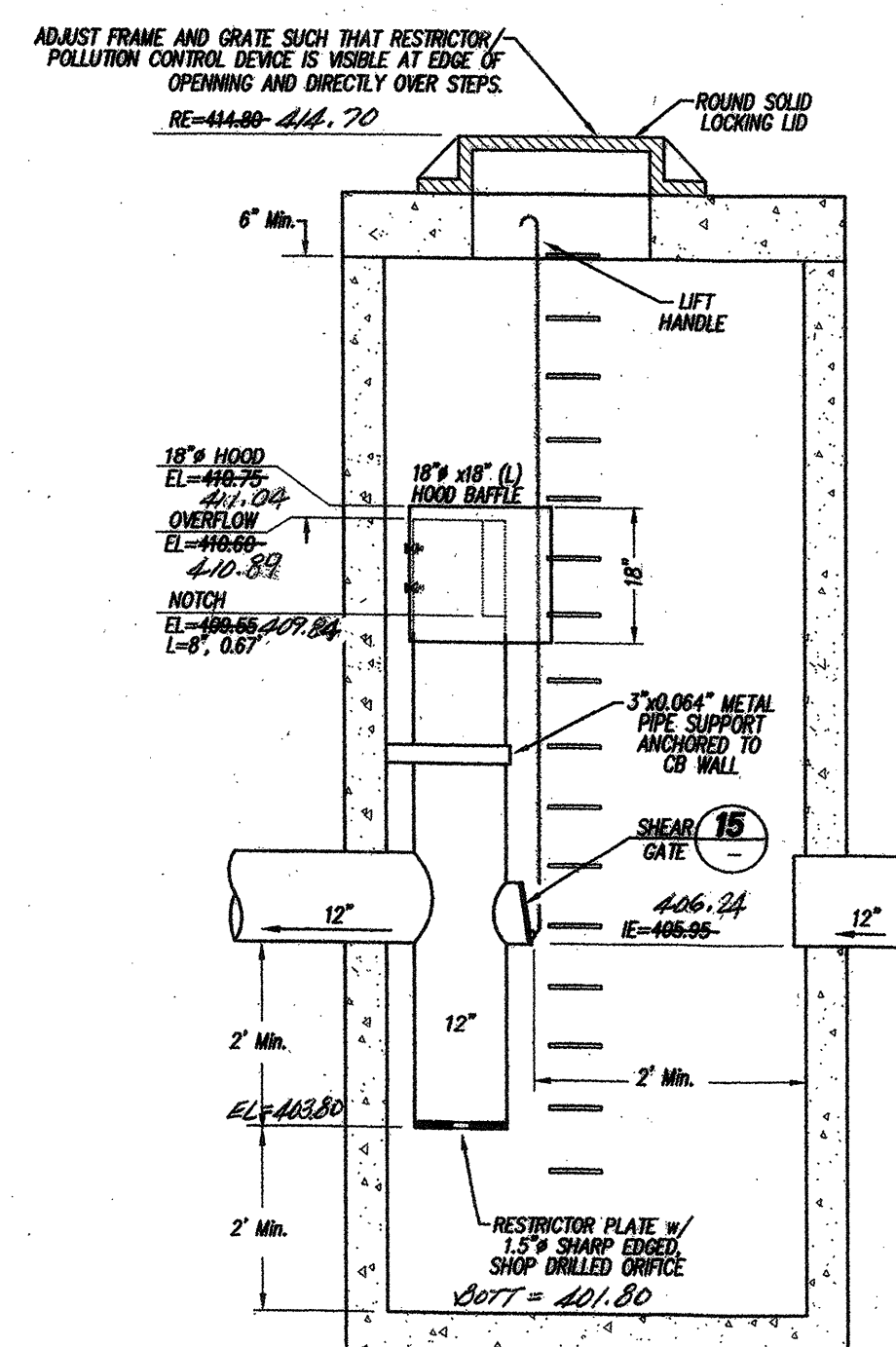
SURVEY & TOPOGRAPHIC INFORMATION PROVIDED BY:
MEAD GLIMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 289
WOODVILLE, WA 98072
PH: 425-486-1252
FAX: 425-486-6108
JOB #00055



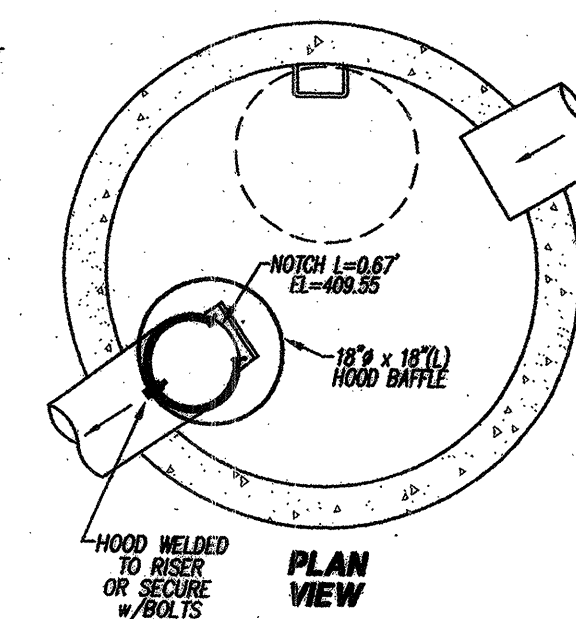
**DETENTION TRACT
VAULT SECTION**
SCALE: 1" = 2' V 1" = 20'



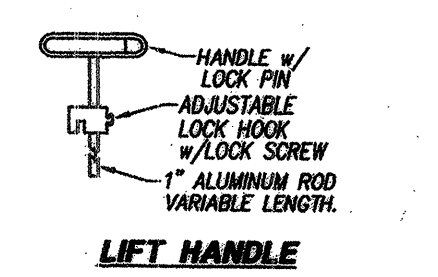
DETENTION TRACT 999
VAULT SECTION
SCALE: 1" = 2' V. 1" = 20' H.



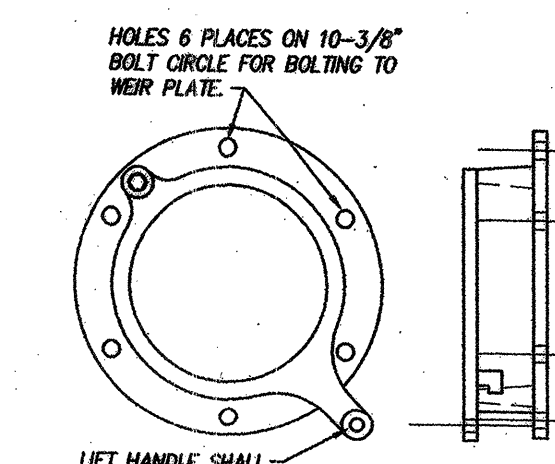
CB-3 Ty-2, 54" SECTION
SCALE: 1/2" = 1.0'



**PLAN
VIEW**



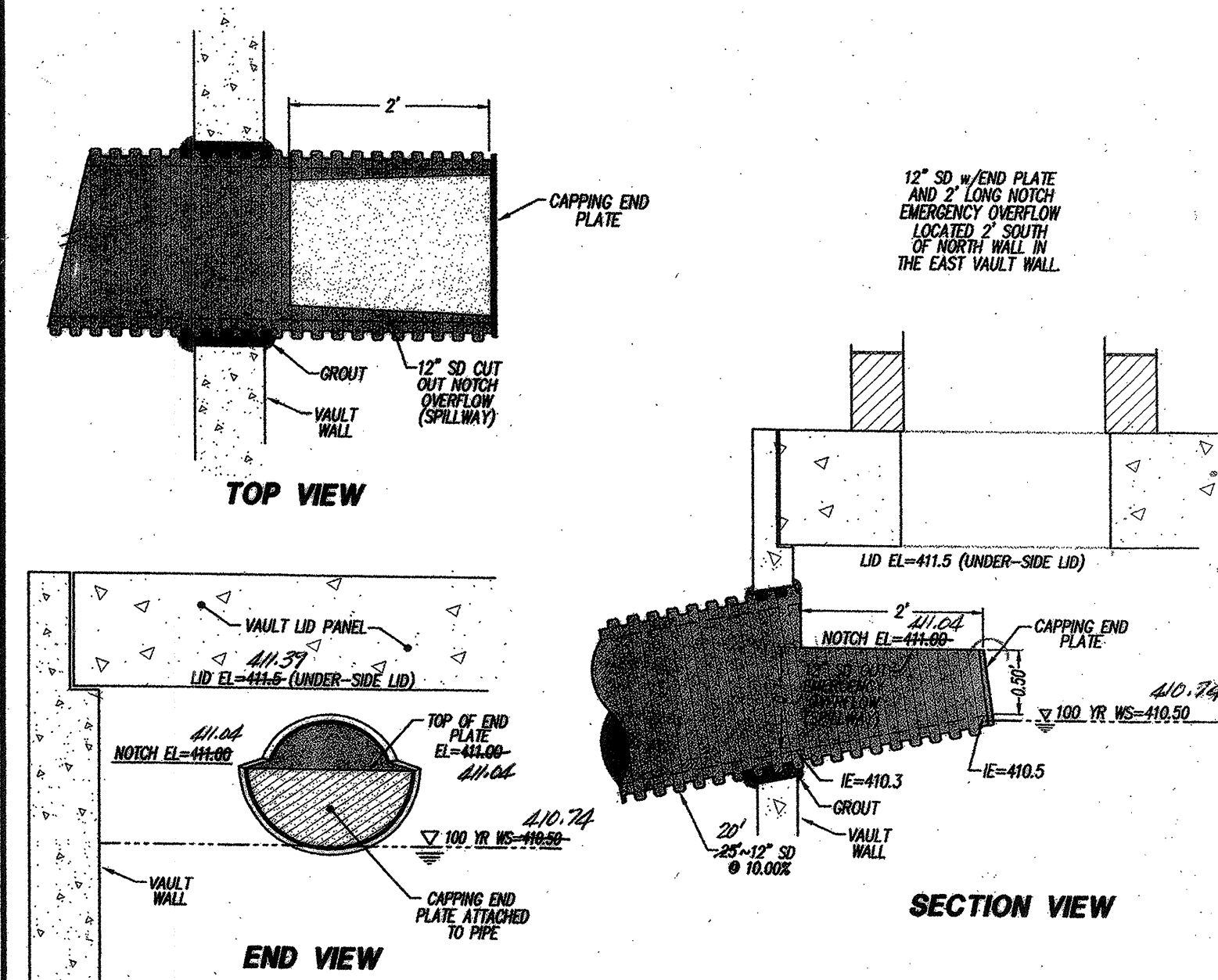
LIFT



FRON

[illegible]

WOUT / SHEAR GATE



TOP VIEW

CAPPING END SECTION VIEW

EMERGENCY OVERFLOW DETAIL 16

DETENTION SUMMARY CHART									
STORM EVENT (YEAR)	LIVE STORAGE VOL. w/1.5 VCF			RELEASE RATE (CFS)			6 MONTH DEAD STORAGE VOLUME (CF)		
	REQUIRED	DESIGNED	AS-BUILT	REQUIRED	DESIGNED w/1.5 VCF	AS-BUILT	REQUIRED	DESIGNED	AS-BUILT
2 (1/2)	31,830 CF	31,850 CF	33,024 CF	0.11 CFS	0.11 CFS	0.12 CFS	16,910 CF	16,792 CF	AS-BUILT
10	36,590 CF	36,740 CF	37,396 CF	0.85 CFS	0.85 CFS	0.44 CFS			
100	41,285 CF	41,440 CF	43,094 CF	1.50 CFS	1.47 CFS	1.03 CFS			
LOTS REQUIRED TO DETENTION FACILITY: LOTS 4-33				DESIGN IMPERVIOUS AREA (AC ADJ. 4000 ACALP 28)					

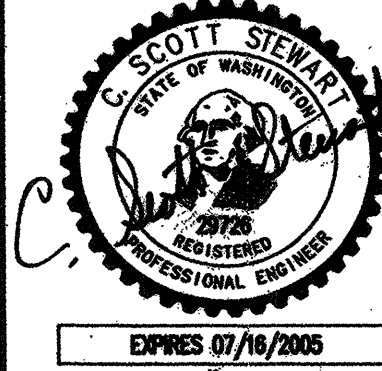
SNOWHOMISH COUNTY PLANNING AND DEVELOPMENT SERVICES APPROVED FOR CONSTRUCTION  BY: <u>GARY M. SMITH</u> 1/19/2004 FOR GARDENHURST R. SUBDIVISION, P.L.S. 04-124872		DATE 4/1/04 6/18/04 7/13/04 7/19/05 8/22/05		REVISION/ISSUED ISSUED PER COUNTY REVIEW PER COUNTY REVIEW RT-BUILT REVISED PER SNO CO. 1ST AB REVIEW	
R/W PERMIT NO.:					

PFN: 03-109825 *AS-BUILT*
APPLETREE NORTH
VAULT PLAN, SECTIONS & DETAILS

PROJECT NO. 03496	DWG C7 OF 8
-----------------------------	--------------------------

PEAK  ***ENGINEERING***
INC.

1720 GROVE STREET, MARYSVILLE, WASHINGTON 98270
(360) 658-6988 FAX (360) 658-7826



**SURVEY & TOPOGRAPHIC
INFORMATION PROVIDED BY:**

MEAD GILMAN & ASSOC.
PROFESSIONAL LAND SURVEYORS
P.O. BOX 289
WOODINVILLE, WA 98072
PH: 425-486-1252
FAX: 425-486-6108
JOB #03055

DATUM: NAD 83 (1929 NATIONAL GEODETIC VERTICAL DATUM)
BENCH: SNOHOMISH COUNTY BENCHMARK 393/769
 CHASED "X" IN SE BOLT OF TRAFFIC SIGNAL BASE, NW
 QUADRANT INTX. 132ND ST. S.E. & SEATTLE HILL RD.
 ELEVATION = 437.25'
 ADD 3.6 TO CONVERT TO NAVD 88

TBM-A: "X" IN SW CAP BOLT FIRE HYDRANT, NE QUADRANT INTX.
 138TH ST. S.E. & 42ND AVE. S.E.
 ELEVATION = 433.52'

TBM-B: CHASED SQUARE IN SE COR. POWER VAULT, SW COR. S.

AS-BUILT DECLARATION

WE HEREBY DECLARE THAT ROAD AND STORM DRAINAGE IMPROVEMENTS
AS SHOWN ON THESE RECORD DRAWINGS.

BY: [Signature] **8-25-05**
PROJECT ENGINEER SURVEYOR DATE

BY: [Signature] **8/25/05**
PLAT DEVELOPER / OWNER DATE

**CALL 48 HOURS
BEFORE YOU DIG
1-800-424-5555**

THE CONTRACTOR SHALL VERIFY THE LOCATION OF
ALL UTILITIES PRIOR TO ANY CONSTRUCTION. AGENCIES
INVOLVED SHALL BE NOTIFIED WITHIN A REASONABLE

PFN: 03-109825 *AS-BUILT*
APPLETREE NORTH
VAULT PLAN, SECTIONS & DETAILS

PROJECT NO. 03496
DWG C7 OF 8

