	BOND CO	DST ESTIMAT	E	
ITEM - E & S	UNITS	UNIT COST	QUANTITY	TOTAL
CONSTRUCTION ENTRANCE SILT FENCE	EA LF	\$ 1,250.00 \$ 4.00	1 335	\$ 1,250.00 \$ 1,340.00
TEMPORARY SEEDING PERMANENT SEEDING	ACRE ACRE	\$ 1,000.00 \$ 2,000.00	0.15 0.15	\$ 150.00 \$ 300.00
			SUBTOTAL	\$ 3,040.00
			10% CONTINGENCY	\$ 304.00
GENERAL ELEVATION NOTE:			TOTAL	\$ 3,344.00

FROM THE HOUSE WITH 0.5 FEET OF FALL OVER 5 FEET IN ALL DIRECTIONS, AND 2% MINIMUM SLOPE TO DRAINAGE SWALES.

LEGEND

M.B.L. = MINIMUM BUILDING LINE S.Y.S. = SIDE YARD SETBACK

R.Y.S. = REAR YARD SETBACKW.M.E. = WALL MAINTENANCE EASE. F.E. = FLOOR ELEVATION△ = HOUSE MARKER OR OFFSET BASE. = BASEMENT ELEVATION

P.U.E. = PUBLIC UTILITY EASEMENT

EROSION AND SEDIMENT CONTROL MEASURES: PROVIDE THE FOLLOWING:

SILT FENCE, VA ESCH STD. 3.05 TEMPORARY SEEDING, VA ESCH STD. 3.31 PERMANENT SEEDING, VA ESCH STD. 3.32

CONSTRUCTION ENTRANCE, VA ESCH STD. 3.02

SUBJECT PROPERTY IS ZONED R2: 30' MINIMUM BUILDING LINE 10' SIDE YARD SETBACK 25' REAR YARD SETBACK

WESTERN VIRGINIA WATER AUTHORITY AVAILABILITY NO. 06-361. TURN KEY BUILDERS, INC. SHALL SIGN THE DEED, TO BE PROVIDED BY THE WVWA, CONVEYING THE RIGHTS OF THE 15' EASEMENT FROM TURNKEY BUILDERS TO THE WVWA FOR PUBLIC SANITARY SEWER EASEMENT.

INDICATE NORTH - The direction of north in relation to the site.

BUILDING PERMIT PLOT PLAN ITEMS

[X] [] <u>VICINITY MAP</u> — A small map locating the site in relation to the surrounding area. Include any landmarks which might

LIMITS OF CLEARING AND GRADING-Areas which are to be cleared and graded including listing the size of disturbed area. EXISTING CONTOURS - The existing contours of the site. FINAL CONTOURS - Changes to the existing contours, including final drainage patterns. EXISTING VEGETATION — The existing tree lines, grassed areas, or unique vegetation. SOILS - The boundaries of different soil types. EXISTING DRAINAGE PATTERNS — The dividing lines and the direction of flow for the different drainage areas. Include the size (acreage) for each drainage area. CRITICAL EROSION AREAS — Areas with potentially serious erosion problems. (See the VA ESCH Chapter 6 for criteria.) SITE DEVELOPMENT — Show all improvements such as buildings, parking lots, driveways, access roads, etc. LOCATION OF PRACTICES — The locations of erosion and sediment control and stormwater management practices used on site. Use the standard symbols and abbreviations in Chapter 3 of the Virginia Erosion and Sediment Control handbook. [X] [] OFF-SITE AREAS - Identify any off-site land-disturbing activities (e.g., borrow sites, waste areas, etc.). Show location

of erosion controls. (Is there sufficient information to assure adequate protection and stabilization?) [] [] [X] <u>DETAIL DRAWINGS</u> — Any structural practices used that are not referenced to the E&S handbook or local handbook should be explained and illustrated with detail drawings. MAINTENANCE—A schedule of regular inspections and repair of erosion and sediment control structures should be set. Owner's name. Property address and County Tax Map identification number.

Name, address, occupation and signature of person preparing the plan if other than a registered design professional. The scale of the plan. Property lines and dimensions drawn in accordance with an accurate boundary line survey. Existing structures (walls, fences, accessory buildings, etc.)

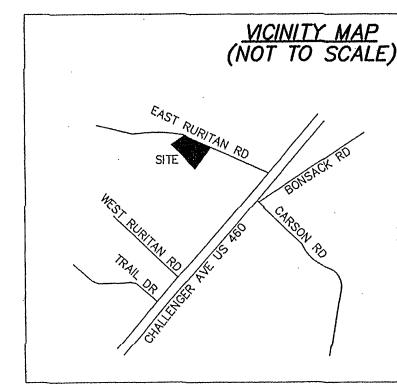
Distances from all structures to adjoining property lines. Identification of potential expansive soil types per the Roanoke County Expansive Soil Policy. Location of floodplain, floodway, and floodway fringe from FEMA Flood Hazard Boundary maps and finished floor elevation or 100 acre water shed per Roanoke County Drainage Standards. Location, dimensions, and type of all easements.

Proposed or existing location of septic tank, drain field and repair area if applicable; or location of sanitary sewer lines. Proposed or existing well location if applicable; or location of water service line. Plan to indicate final disposition of all storm water to an approved discharge point.

SEE ATTACHED PRE-CONSTRUCTION FEMA ELEVATION CERTIFICATE. THE 100-YEAR WATER SURFACE ELEVATION IS 1014.0. THE LOWEST FLOOR MUST BE ATLEAST 2' HIGHER THAN THE 100-YEAR WATER

HOUSE DETAIL

SCALE: 1" = 20'



GENERAL NOTE:

SURFACE ELEVATION.

1. THIS PLAT WAS PREPARED WITHOUT BENEFIT OF A TITLE REPORT AND IS SUBJECT THERETO. THEREFORE, THERE MAY EXIST ENCUMBRANCES WHICH AFFECT THE PROPERTY NOT SHOWN HEREON 2. THE SUBJECT PROPERTY IS WITHIN ZONE "AE" & "X" AS SHOWN ON THE FEMA FLOOD INSURANCE RATE MAP NO. 51161C0029 D, EFFECTIVE DATE OCTOBER 15, 1993. THIS DETERMINATION IS BASED ON SAID MAP AND HAS BEEN VERIFIED BY ELEVAITONS IN THE FIELD

3. THIS PLAT IS BASED ON HOUSE SIZE AN INFORMATION SUPPLIED BY THE OWNER/CONTRATOR. 4. OWNER/CONTRACTOR SHALL INSURE THAT THE LOCATION OF THE HOUSE MEETS THE SETBACK REQUIREMENTS OF THE

ZONING ORDINANCE WHEN CONSTRUCTED. 5. TOPOGRAPHIC INFORMATION IS BASED ON CURRENT FIELD SURVEY OF JULY 2006. DATUM IS BASED ON FEMA

6. THE JOB SUPERINTENDENT SHALL BE RESPONSIBLE FOR THE INSTALLATION AND MAINTENANCE OF ALL EROSION AND

7. THE COUNTY OF ROANOKE RESERVES THE RIGHT TO ADD TO, DELETE, OR OTHERWISE CHANGE EROSION CONTROL DEVICES AS MAY BE DEEMED NECESSARY BY WRITTEN NOTIFICATION TO THE CONTRACTOR 8. NO WORK SHALL PROCEED ON THE SITE UNTIL THE PROPER AUTHORIZATION OR PERMIT HAS BEEN OBTAINED FROM THE COUNTY OF ROANOKE AND/OR OTHER GOVERNING AUTHORITIES

9. THE ENGINEER, PARKER DESIGN GROUP, ASSUMES NO RESPONSIBILITY FOR ADEQUACY OF ANY CONSTRUCTION

10. THE FLOODWAY LIMITS. IN THE AREA OF CONSTRUCTION, SHALL BE STAKED PRIOR TO CONSTRUCTION.

GRAPHIC SCALE (IN FEET) 1 inch = 40 ft.

TYPE A (SLOPES FLATTER THAN 3:1)

15 OCTOBER TO 1 FEBRUARY K-31 FESCUE @ 5 LB / 1000 SF BORZY WINTER RYE @ 1/2 LB / 1000 SF

TYPE B (SLOPES 3:1 OR STEEPER) 1 FEBRUARY TO 1 JUNE K-31 FESCUE @ 5 LB / 1000 SF 15 MARCH TO 1 MAY ANNUAL RYE @ 1/2 LB / 1000 SF

1 JUNE TO 1 SEPTEMBER K-31 FESCUE @ 5 LB / 1000 SF GERMAN MILLET @ 1/2 LB / 1000 SF 1 SEPTEMBER TO 15 OCTOBER K-31 FESCUE @ 5 LB / 1000 SF ANNUAL RYE @ 1/2 LB / 1000 SF

CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRASS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF 15 AUGUST TO 1 OCTOBER

CROWN VETCH @ 1/2 LB / 1000 SF PERENNIAL RYEGRÁSS @ 1/2 LB / 1000 SF RED TOP @ 1/8 LB / 1000 SF

140 LB / 1000 SF PULVERIZED AGRICULTURAL LIMESTONE

FERTILIZER: 5-20-10 @ 25 LB / 1000 SF 38-0-0 @ 7 LB / 1000 SF

SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 3.35 OF THE VIR-GINIA EROSION AND SEDIMENT CONTROL HANDBOOK, 3rd ED.

SOIL CONDITIONING: INCORPORATION OF LIME AND FERTILIZER, SELECTION OF CERTIFIED SEED, MULCHING, MAINTENANCE OF NEW SEED-LINGS, AND RESEEDING SHALL BE IN ACCORDANCE WITH THE SPECIFICATIONS CONTAINED WITHIN THE VIRGINIA SOIL ERO-SION AND SEDIMENT CONTROL HANDBOOK, THIRD EDITION. ADDITIONAL SEEDING TO BE PERFORMED AS REQUIRED BY THE INSPECTOR.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM. FRIABLE SEEDBED. MAX. SEEDING DEPTH SHALL BE 1/4 INCH.

PERMANENT SEEDING MIXTURE

WINTER RYE (SECALE CERALE) @ 2 1/2 LB / 1000 SF OR ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) @ 1 1/2 LF / 1000 SF OR KOREAN LESPEDEZA (LESPEDEZA STIPULACEA) @ 1 1/2 LF / 1000 SF

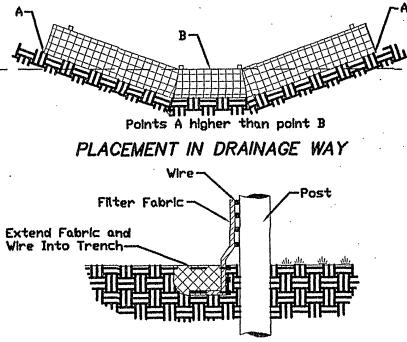
01 MAY TO 15 AUGUST GERMAN MILLET (SETARIA ITALICA) @ 1 LB / 1000 SF OR WEEPING LOVEGRASS (ERAGROSTIS CLRVULA) @ 5 1/2 OZ / 1000 SF OR KOREAN LESPEDEZA (LESPEDEZA STIPULACEA) @ 1 1/2 LF / 1000 SF

WINTER RYE (SECALE CERALE) @ 1 LB / 1000 SF AND ANNUAL RYEGRASS (LOLIUM MULTI-FLORUM) @ 1 LF / 1000 SF

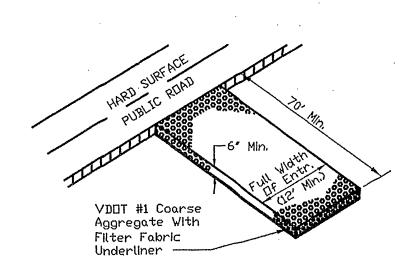
SHALL BE USED OVER ALL SEEDED AREAS AND SHALL BE APPLIED IN ACCORDANCE WITH SECTION 3.35 OF THE VIR-GINIA ÉROSION AND SEDIMENT CONTROL HANDBOOK, 3rd ED.

SEED APPLICATION: APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER ON A FIRM, FRIABLE SEEDBED. MAX. SEEDING DEPTH SHALL BE 1/4 INCH.

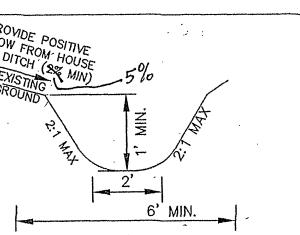
TEMPORARY SEEDING



CROSS-SECTION SILT FENCE



TEMPORARY GRAVEL CE CONSTRUCTION ENTRANCE



TYPE "A" CHANNEL

FOR LONGITUDINAL SLOPES STEEPER THAN 5%, THE CONTRACTOR SHALL UTILIZE SOIL STABILIZATION MATTING, TREATMENT—1, WITH STAPLE PATTERN C TO OBTAIN VEGATITIVE GROWTH AND STABILIZE THE CHANNEL.

CONTRACTOR: TURN KEY BUILDERS, INC. PROPERTY ADDRESS: 3013 EAST RURITAN ROAD B (1.258 AC.), RADER SUBDIVISION

P.B. 30, PG. 77 EXPANSIVE SOILS TEST: SOIL TEST IS REQUIRED -TO BE TESTED BY OTHERS

LAND DISTURBANCE: 8,550 SF

SOIL EROSION CONTROL NARRATIVE

THE PURPOSE OF THIS PROJECT IS TO PREPARE THE SITE FOR FUTURE BUILDING PAD AND FOUNDATION AS SHOWN. THIS PLAN CONTAINS A PUBLIC SANITARY SEWER LINE EXTENSION. AN INCREASE IN 2,400 SQ. FT. OF IMPERVIOUS AREA IS SHOWN ON THIS LOT. STORMWATER MANAGEMENT AND DRAINAGE CALCULATIONS ARE NOT REQUIRED FOR THIS DEVELOPMENT. THIS PROJECT WILL DISTURB NO MORE THAN 0.20 ACRES (8,550 SF).

FOR AREAS LESS THAN 1.0 ACRE, NO VPDES GENERAL PERMIT FOR STORMWATER DISCHARGES FROM CONSTRUCTION ACTIVITIES IS REQUIRED.

THE SITE WILL UTILIZE A CONSTRUCTION ENTRANCE, SILT FENCE, AND PERMANENT

EXISTING SITE CONDITIONS:
THE SITE IS A SMALL PORTION OF A LARGER DRAINAGE AREA. RUNOFF DRAINS FROM

THE SITE CONTAINS ONE LOT. THE PROPERTY IS OWNED BY TURNKEY BUILDERS, INC. (TAX PARCEL 40.17-02-09.02), LOCATED IN THE HOLLINS MAGISTERIAL DISTRICT, ROANOKE COUNTY, VIRGINIA.

AS IDENTIFIED BY THE U.S. DEPARTMENT OF AGRICULTURE. SOIL CONSERVATION SERVICE. GENERAL SOIL MAP, THE BASIC SOIL MATERIAL IS CHISWELL-LITZ-URBAN LAND.

CRITICAL AREAS:
SILT FENCE ALONG THE SOUTHERN LIMITS OF CONSTRUCTION SHOULD BE PLACED TO KEEP
SEDIMENT OFF THE ADJACENT PROPERTIES AND STREET. ALL SILT FENCE SHALL BE
SEDIMENT OF THE ADJACENT PROPERTIES AND STREET. ALL SILT FENCE SHALL BE INSTALLED AND CHECKED REGULARLY. A CONSTRUCTION ENTRANCE SHALL BE INSTALLED ALONG THE EXISTING ROAD TO KEEP SEDIMENT OFF OF EXISTING PAVED AREAS. THE CONSTRUCTION ENTRANCE SHALL BE POSITIONED AT THE PROPOSED DRIVEWAY. THE CONTRACTOR SHALL PROVIDE PERMANENT SEEDING WITHIN SEVEN (7) DAYS OF OBTAINING FINAL GRADES. THE CONTRACTOR MAY BE REQUIRED TO SEED CERTAIN AREAS AT FINAL GRADE WHILE OTHER AREAS ARE NOT TO FINAL GRADE.

ADJACENT PROPERTY: SEE MAP

APPROVED BY ROANOKE COUNTY THIS PLAN IS APPROVED FOR EROSION AND SEDIMENT CONTROL

ONLY

OFFSITE WASTE AND BORROW NOTE:

THE PROPOSED DEVELOPMENT DOES NOT ANTICIPATE OFF-SITE WASTE AREAS; HOWEVER, SHOULD THE PROJECT REQUIRE OFF-SITE WASTE AREAS OR BORROW AREAS, THE LOCATION OF THESE AREAS NEED TO BE SUBMITTED TO THE COUNTY OF ROANOKE AND OTHER LOCAL GOVERNING AUTHORITIES WHERE WASTE/BORROW OCCURS. EROSION CONTROL PLANS OR MEASURES MAY BE REQUIRED FOR THESE OFF-SITE LOCATIONS.

EROSION & SEDIMENT CONTROL MEASURES:

UNLESS OTHERWISE INDICATED, ALL VEGETATIVE AND STRUCTURAL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CONSTRUCTED AND MAINTAINED ACCORDING TO THE MINIMUM STANDARDS AND SPECIFICATIONS OF THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK", LATEST EDITION.

1. REGARDLESS OF FUTURE DEVELOPMENT PLANS, THE CONTRACTOR SHALL IMMEDIATELY INSTALL EROSION AND SEDIMENT CONTROL DEVICES AS SHOWN ON THE PLANS. THIS WORK SHALL BE COORDINATED IN ORDER OF THE WORK WHICH IS TO FOLLOW: CONTROL AT CENTERS OF FLOW, AND OTHER POINTS OF CONCENTRATION SHOWN SHALL BE CONSTRUCTED IN PLACE FIRST.

2. AFTER THE INSTALLED CONTROL DEVICES ARE FOUND TO BE FUNCTIONAL. THE CONTRACTOR SHALL IMMEDIATELY PROCEED WITH DEMOLITION, CLEARING, AND PRELIMINARY GRADING OPERATIONS. ALL EXPOSED DENUDED AREAS SHALL BE SEEDED WITHIN SEVEN (7) DAYS AFTER FINAL GRADING, AND SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE "VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK",

3. IN GENERAL, ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE INSPECTED WEEKLY AND AFTER EACH SIGNIFICANT RAINFALL. IN PARTICULAR:

A. MEASURES SHALL BE MAINTAINED TO PREVENT TRACKING OR FLOW OF MUDONTO PUBLIC RIGHT-OF-WAYS. B. ALL SILT FENCE BARRIERS AND INLET PROTECTIONS SHALL BE CHECKED REGULARLY FOR UNDERMINING AND SEDIMENT BUILDUP. C. ALL SEEDED AREAS WILL BE CHECKED REGULARLY TO SEE THAT A GOOD STAND IS MAINTAINED. AREAS SHALL BE FERTILIZED AND RESEEDED AS NEEDED.

. FOLLOWING THE COMPLETION OF DEVELOPMENT AND STABILIZATION OF ALL AREAS AND AFTER IT HAS BEEN DETERMINED THAT EROSION OR SEDIMENTATION IS NO LONGER OCCURRING ON THE SITE OR AT ITS BOUNDARIES AND THAT DRAINAGE FLOWS ARE FUNCTIONING ACCORDING TO DESIGN, THE CONTRACTOR MAY THEN BEGIN TO REMOVE THE TEMPORARY EROSION AND SEDIMENT CONTROL DEVICES. THIS WORK SHALL BE DONE IN A CAREFUL, NEAT, ORGANIZED MANNER.

GENERAL EROSION & SEDIMENT

1. ALL SOIL EROSION & SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE ACCOMPLISHED IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL

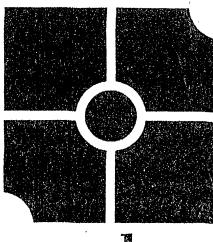
2. THE APPROVING AUTHORITY MAY ADD TO, DELETE, RELOCATE, CHANGE, OR OTHERWISE MODIFY CERTAIN EROSION AND SEDIMENT CONTROL MEASURES WHERE FIELD CONDITIONS ARE ENCOUNTERED THAT WARRANT SUCH MODIFICATIONS.

3. ALL SOIL EROSION AND SEDIMENT CONTROL MEASURES AS SHOWN ON THE PLAN SHALL BE PLACED IN ADVANCE OF THE WORK BEING PERFORMED, AS FAR AS

4. IN NO CASE DURING CONSTRUCTION SHALL WATER RUNOFF BE DIVERTED OR ALLOWED TO FLOW TO LOCATIONS WHERE ADEQUATE PROTECTION HAS NOT BEEN

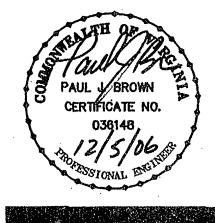
5. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO LEAVE THE SITE ADEQUATELY PROTECTED AGAINST EROSION, SEDIMENTATION, OR ANY DAMAGE TO ANY ADJACENT PROPERTY AT THE END OF EACH DAY'S WORK.

6. FOR THE EROSION CONTROL KEY SYMBOLS SHOWN ON THE PLANS, REFER TO THE VIRGINIA UNIFORM CODING SYSTEM FOR EROSION AND SEDIMENT CONTROL PRACTICES CONTAINED IN THE VIRGINIA EROSION AND SEDIMENT CONTROL HANDBOOK, LATEST



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C C O 40 **(1)** 0 93 E O 0 0 3000 (I)

DESIGNED BY: PJB DRAWN BY: CHECKED BY

SCALE: October 27, 2006

SHEET TITLE: **BPPP & ESC PLAN** 3013 E. Ruritan Road

01 OF 02 PROJECT NUMBER:

52modz - Chitarit LOBE O

27 NIONS = NEXINDA 3 TOWED

Yes No NA MINIMUM STANDARDS CHECKLIST

1" = 40"

Tax No. 040.17-02-09.02