

LEGEND

- Existing Contour: ---382---
- Proposed Contour: ---372---
- Spot Elevation: +82.53
- Direction of Flow: --->---
- Existing Trees to Remain: [Symbol]
- Slit Fence: ---SF---
- Limit of Disturbance: ---LOD---
- Prop. Shade Tree: [Symbol]
- Prop. Dwelling: [Symbol]
- 15% to 24.9% slopes: [Symbol]
- slopes of 25% or greater: [Symbol]
- Forest Type Boundary: ---FTB---
- Soil Type Boundary: ---STB---
- Tree Protection Fence: ---TPF---
- Specimen Tree Sign: [Symbol]

MANAGEMENT NOTES FOR FOREST RETENTION AREAS

- All proposed activities shall adhere to the conditions, schedules and terms of an approved sediment control and erosion plan.
- After the boundaries of the retention area have been staked and flagged and before any disturbance has taken place on-site, a preconstruction meeting at the construction site shall take place. The developer, contractor or project manager, and appropriate County Inspectors shall attend.
- Tree protection for all retained areas:
 - All retention areas within 50 feet of proposed construction activities shall be protected by highly visible, well anchored temporary protection devices (slit fence or blaze orange plastic mesh).
 - All protection devices shall be in place prior to any grading or land clearing.
 - All protection devices shall be properly maintained and shall remain in place until construction has ceased.
 - Attachment of signs, fencing or other objects to trees is prohibited.
 - No equipment, machinery, vehicles, materials or excessive pedestrian traffic shall be allowed within protected areas.
- If the critical root zone (see detail) is affected by construction activities such as grade change, digging for foundations and roads or utility installation:
 - Prune roots with a clean cut using proper pruning equipment (see root pruning detail)
 - Water and fertilize as needed.
- During construction phase, monitor and correct condition of retained trees for soil compaction, root injury, flood conditions, drought conditions and other stress signs.
- Post-Construction Phase
 - Inspect existing trees around the perimeter of disturbed limits for evidence of soil compaction, root injury, limb injury, or other stress signs and correct with proper management techniques such as root or limb pruning, soil aeration, fertilization, crown reduction or watering. Inspection and evaluation shall be performed by a licensed arborist.
 - Inspect for dead or dying trees or limbs which may pose safety hazard and remove.
 - No burial of discarded materials will occur onsite within the conservation areas.
 - No burning within 100 feet of wooded area.
 - All temporary forest protection structures will be removed after construction. Permanent signage will be installed in locations shown.
 - Following completion of construction, prior to use, the County inspector shall inspect the entire area.

FOREST STAND ANALYSIS TABLE

KEY	TYPE OF COMMUNITY	AREA	SOIL INFORMATION			EXISTING VEGETATION (Type and approx. %)	STAND CHARACTERISTICS			FOREST AREA IN SENSITIVE ENVIRONMENTS	
			SOIL TYPE	TYPICAL FOREST COVER	WOODLAND SUITABILITY INDEX		HABITAT VALUE	SIZE	AGE		GENERAL CONDITIONS
FI	Mixed Hardwood	0.85 AC	Ba CIC3 CmB2	Wetland Hardwood Oaks and Upland Hardwood	65-74 oaks 55-64 pines 75-84 pines	Good Fair Fair	Tulip Poplar 50% Austrian Pine 5% Black Gum 10% Black Cherry 15% Red Maple 20%	4-24 in. 8-14 in. 4-6 in. 4-8 in. 18-24 in.	100±	Good	0.37 Ac. in streams, stream buffers, and steep slopes
Offsite	Mixed Hardwood	0.08 AC	Ba GIC3	Wetland Hardwood Oaks and Upland Hardwood	65-74 oaks 75-84 oaks	Good Good	same as above	same as above	100±	Good	

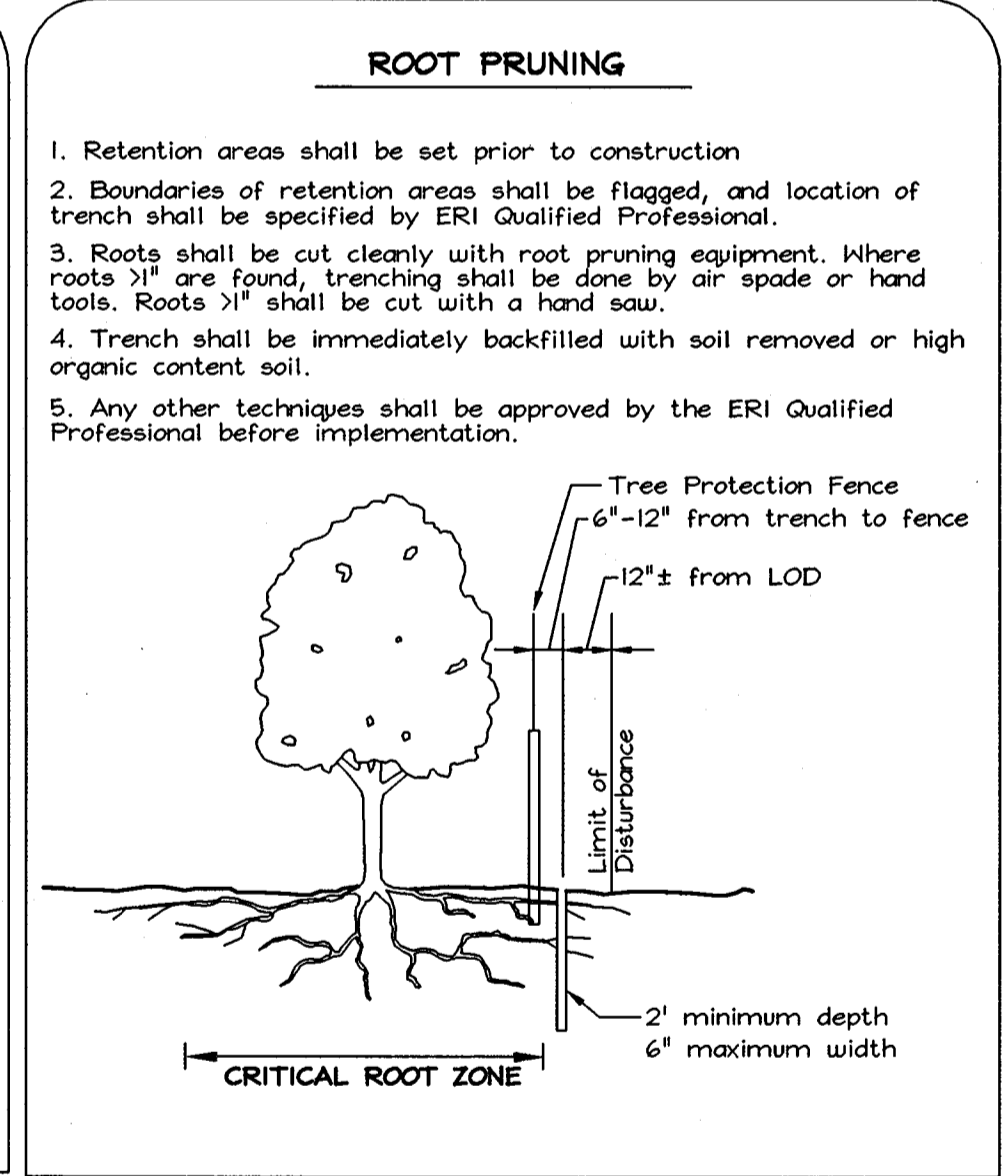
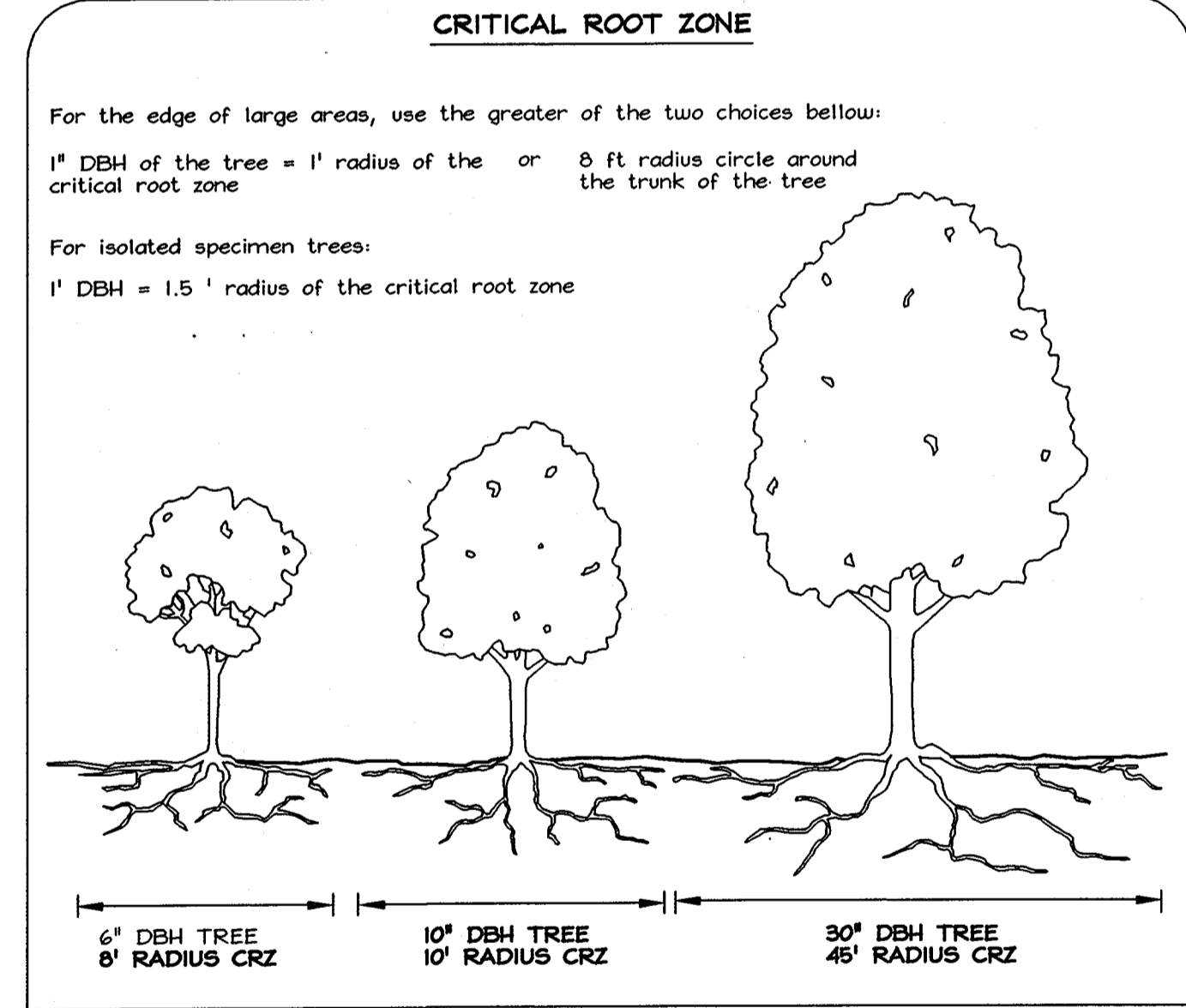
There is no floodplain on the Sowers Property.

SPECIMEN TREES

Key	Name	Scientific Name	Size	Condition
ST-1	Tulip Poplar	Liriodendron tulipifera	32"	Good
ST-2	Red Maple	Acer rubrum	30"	Good

Forest Conservation Easement Table

Easement	Retention	Area
Easement 1	Retention	0.41 Ac.
Total		0.41 Ac.



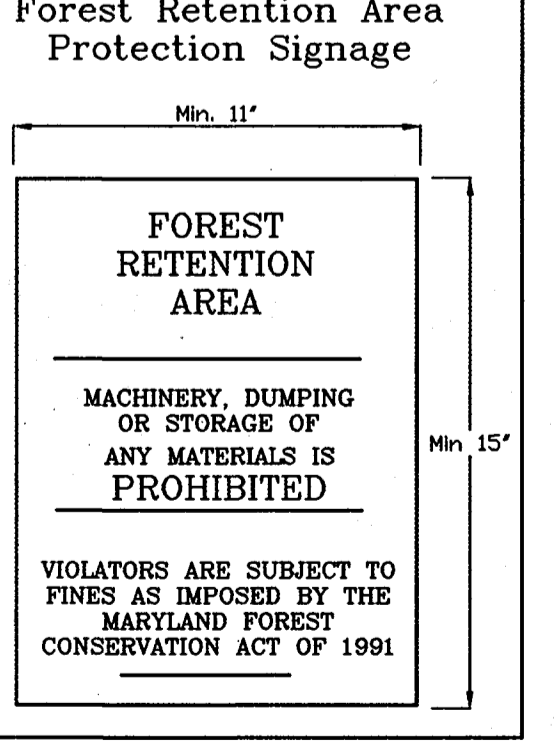
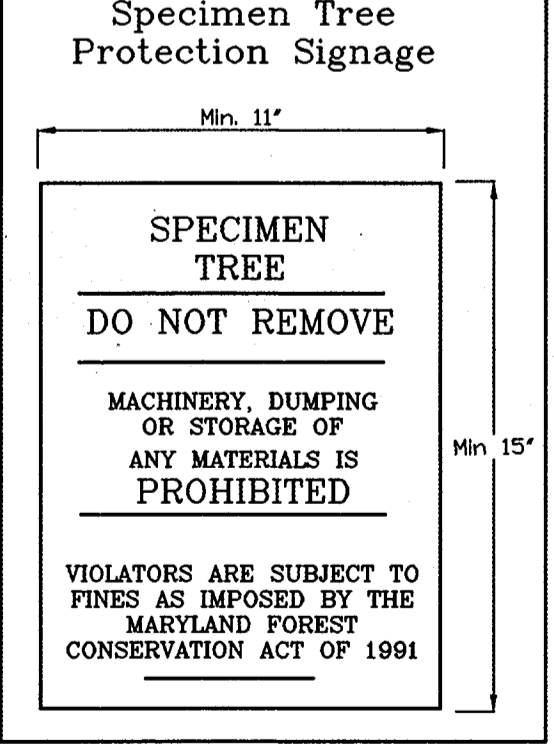
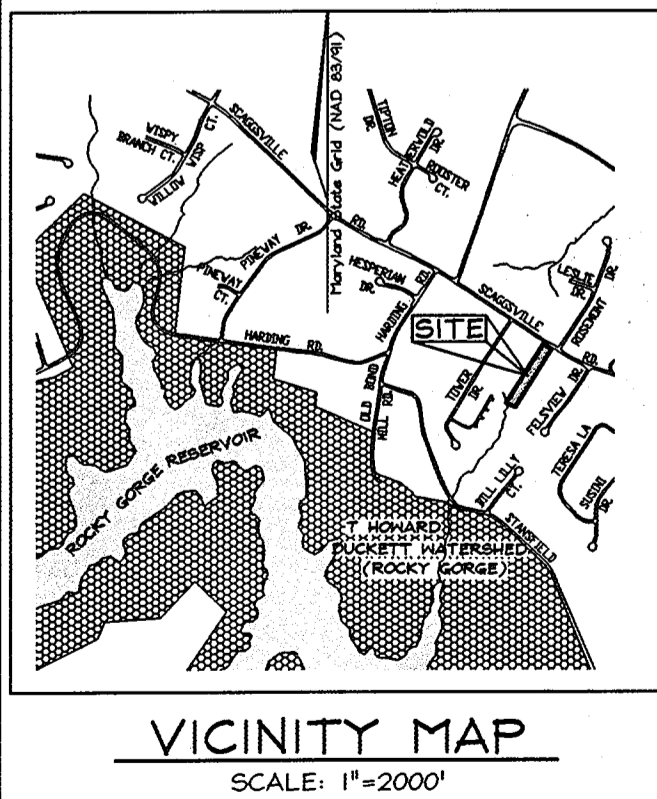
FOREST CONSERVATION WORKSHEET

Item	Acres (1/100 ac.)
Net Tract Area	
A. Total Tract Area	1.72
B. Area Within 100 Year Floodplain	0
C. Other deductions	0
D. Net Tract Area	1.72
Land Use Category Residential - Suburban	
E. Afforestation Minimum (15% x D)	0.26
F. Conservation Threshold (20% x D)	0.34
Existing Forest Cover	
G. Existing Forest on Net Tract Area	0.85
H. Forest Area Above Conservation Threshold	0.51
Breakeven Point	
I. Forest Retention for no Mitigation	0.45
J. Clearing Permitted without Mitigation	0.40
Proposed Forest Clearing	
K. Forest Areas to be Cleared	0.44
L. Forest Areas to be Retained	0.41
Planting Requirements	
M. Reforestation for Clearing Above Threshold	0.11
N. Reforestation for Clearing Below the Threshold	0
P. Credit for Retention Above Conservation Threshold	0.07
Q. Total Reforestation Required	0.04
R. Total Afforestation Required	0
S. Total Reforestation and Afforestation Requirement	0.04

Forest Stand Narrative

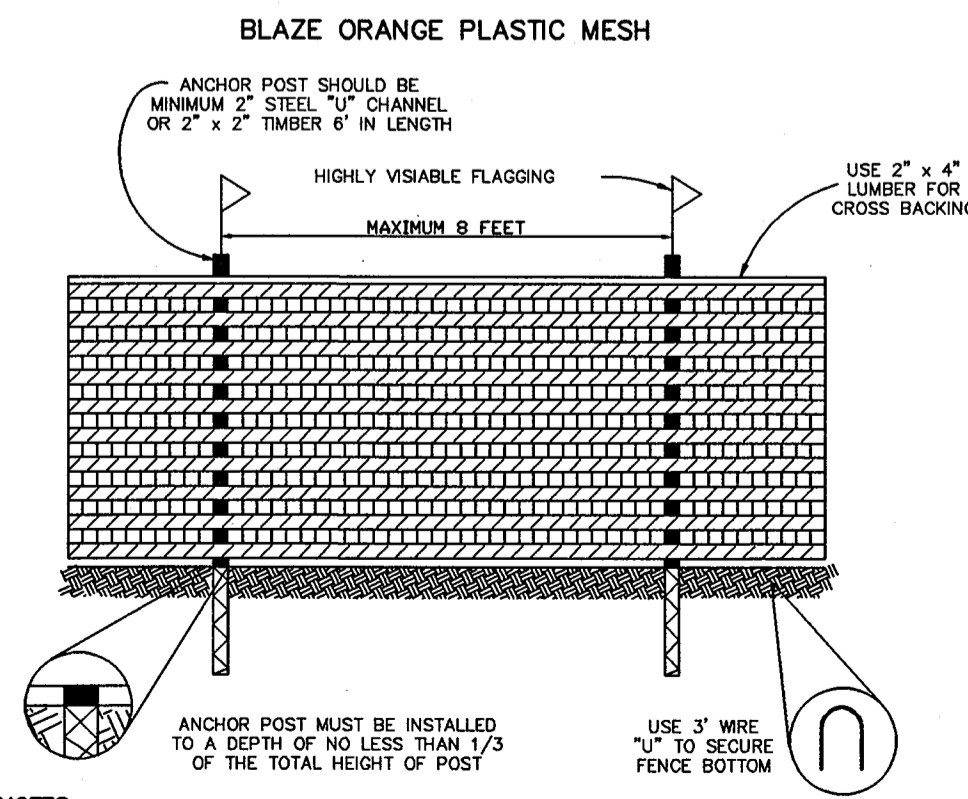
FI This 0.85 Acre forest is well developed on the interior and young near the edges. The overstory contains tulip poplar, red maple, black cherry as well as small quantities of Austrian Pine, Black Gum and red and white oak. The middle-story contains tulip poplar, American holly, black gum, black cherry, and sassafras. In the understorey, raspberry, pokeweed, yucca, Virginia creeper, multiflora rose, Japanese honeysuckle, black cherry, and tulip poplar are found. The stand is in good health without significant invasive infestation.

LI The remainder of the site, 0.87 Ac., is lawn with scattered individual trees.



Soil Protection Zone Notes

- The Soil Protection Zone shall include all areas contained inside the Limit of Disturbance.
- Where possible, the Soil Protection Zone shall extend to the drip line of specimen trees. For other groups of trees, the zone shall be the drip line or 40% of the height of the tree, whichever is greater.
- No construction activity is permitted within the Soil Protection Zone.
- If soil has been compacted or grading has taken place in the vicinity of the Soil Protection Zone, root pruning shall be implemented per Root Pruning detail, shown on this plan.
- Root pruning shall occur prior to the beginning of construction.
- Where the Soil Protection Zone must encroach inside the Critical Root Zone of a tree, soil disturbance shall be mitigated with vertical mulching, radial trenching, or another method approved by the ERI Forest Conservation Professional.
- Prior to construction, the Limits of Disturbance shall be marked and the ERI Professional shall determine which trees will need preventative treatment or removal.
- Tree maintenance and removal shall be undertaken by a qualified MID Tree Expert to ensure damage to surrounding trees is minimized.
- Brush and limbs removed for construction shall be chipped and spread at the edge of the Soil Protection Zone to a depth of 6 inches. This shall occur outside the Soil Protection Zone where compaction could impact otherwise unprotected Critical Root Zone.



Forest Conservation Narrative

This Forest Conservation Plan has been developed in accordance with the Howard County Forest Conservation Manual and the 1991 Forest Conservation Act.

The existing site consists of 1.72 acres. The site has 0.85 acres of existing forest within the net tract area. An easement will be established to retain 0.41 ac. Specimen trees will be protected where possible. Due to the small size of the site no on-site forest mitigation is possible. We are requesting a fee-in-lieu payment of \$871.20 for the remaining 0.04 ac. (1742.4 sf) of required mitigation.

OWNER
Christine N. Harris and Daniel S. Kessler
10475 Scaggsville Road
Laurel, Maryland 20723

DEVELOPER
Scaggsville Road Investment, LLP c/o Brian D. Boy
6601 Norfolk Avenue
Laurel, Maryland 20723
Tel: (410)792-2665 Fax: (410)792-2667

APPROVED: HOWARD COUNTY DEPARTMENT OF PLANNING AND ZONING

Cheryl Williams 3/14/03
CHIEF, DEVELOPMENT ENGINEERING DIVISION DATE

Cindy Arnold 3/18/03
CHIEF, DIVISION OF LAND DEVELOPMENT DATE

Surety in the amount of \$3,571.92 will be posted with the Developers Agreement. (0.41 ac/17,859.6 sf @ \$0.20/sf)

EXPLORATION RESEARCH, INC.
ENVIRONMENTAL CONSULTANTS
LANDSCAPE ARCHITECTS
6810 HOBBS STREET
BELLEVILLE CITY, MARYLAND 21043
TEL: (410) 760-1150 FAX: (410) 760-7860

COMBINED FOREST STAND DELINEATION AND FOREST CONSERVATION PLAN

THE HILLSIDE AT ROCKY GORGE III

LOTS 1, 2 AND OPEN SPACE LOT 3
A RESUBDIVISION OF LOT 2, KVESETH ADDITION
TO TOWER ACRES PLAT NO. 3818

TAX MAP 46, GRID 18 PARCEL 326
6TH ELECTION DISTRICT HOWARD COUNTY, MARYLAND

FSH Associates
Engineers Planners Surveyors
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E-mail: FSHAssociates@cs.com

DESIGN BY: PS/KO
DRAINED BY: AB
CHECKED BY: SLH
SCALE: 1"=50'
DATE: Mar. 11, 2003
I.C.O. No.: 3050
SHEET No.: 1 OF 1