

- Notes
- 1) Proposed contours and spot elevations represent finished grade (government surface, etc.).
 - 2) Contractor shall strip site of all vegetation, remove all trees, bushes and shrubs and their roots and strip topsoil to a depth of 3 inches. All vegetative material shall be stockpiled for later use in a location mutually agreeable to MasterCard and McGehe.
 - 3) Prior to placing any fill material, the ground surface shall be proof-rolled with a loaded tandem-wheeled dump truck. Soils that pump shall be removed and replaced with suitable material and compacted.
 - 4) Contractor shall furnish, install and maintain erosion control devices, including, but not limited to: silt fences, straw bales, diversion channels and siltation basins. Erosion control measures shall be maintained until permanent ground cover is established and accepted by MasterCard. Erosion control shall be implemented and maintained in accordance with the guidelines in the model sediment and erosion control regulations by St. Charles soil and water conservation district.

See sheet C.9 for Erosion Control Plan.

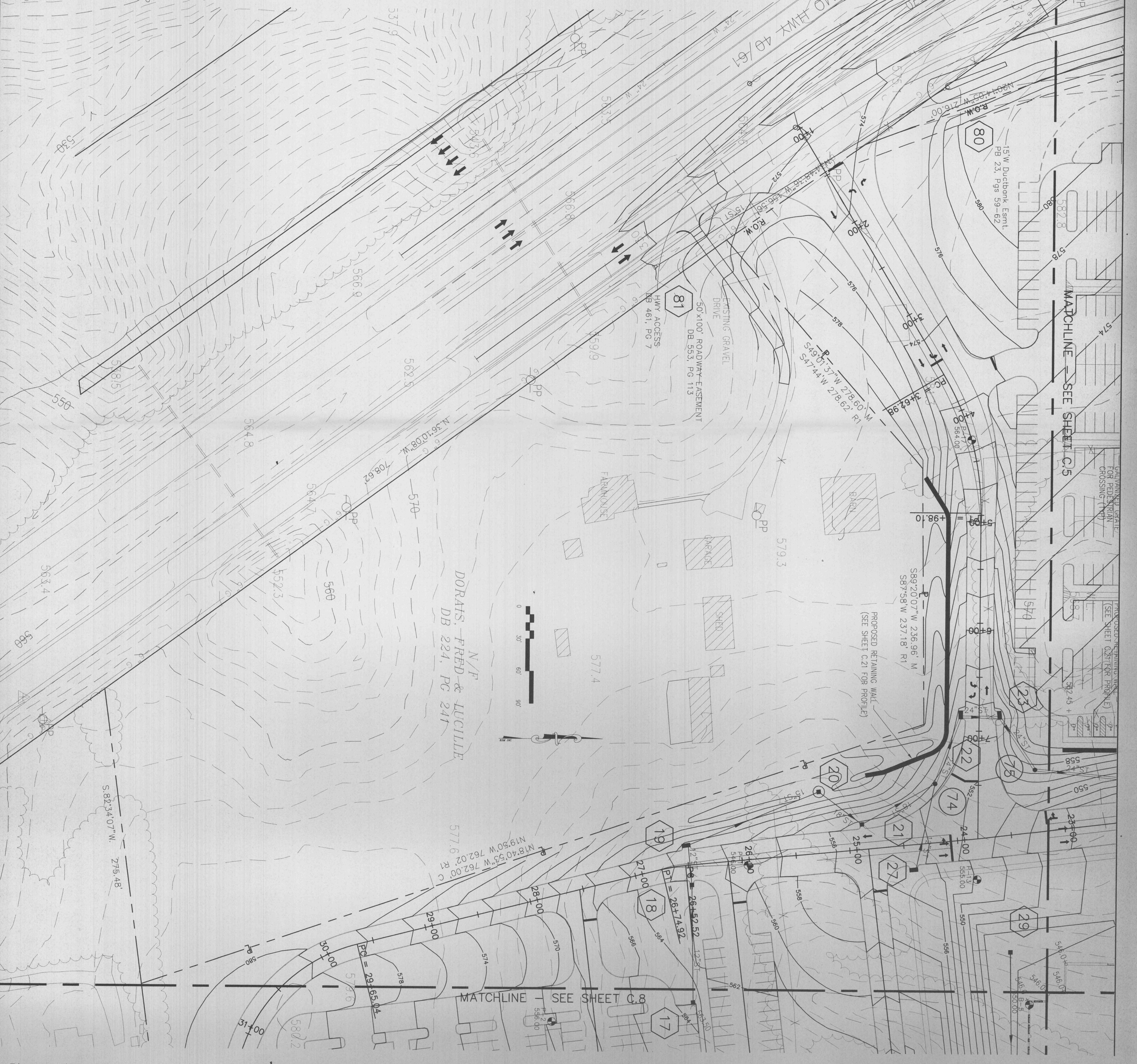
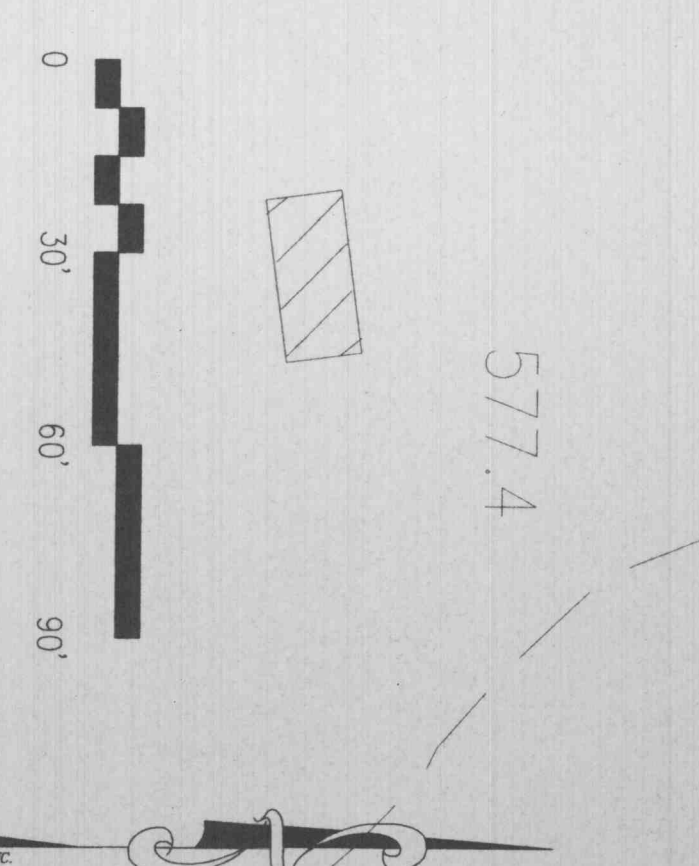
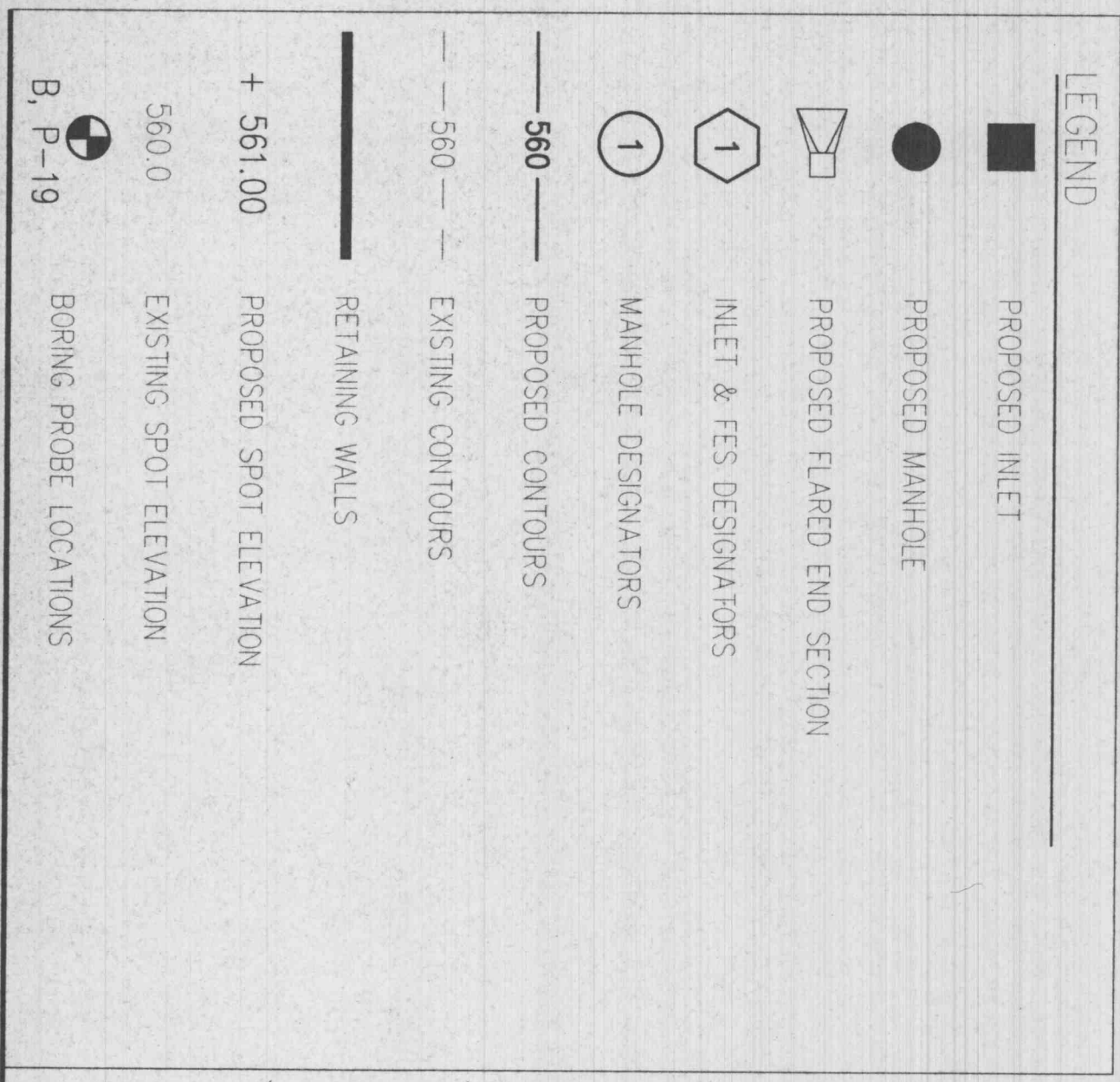
Erosion control shall not be limited to what is shown on the plan. Whatever erosion control measures are necessary to prevent erosion and sediment from entering natural streams and adjacent roadways, properties and districts.

All erosion control systems shall be inspected and necessary corrections made within 24 hours of dry rainstorm resulting in one-half inch of rain or more. No graded area is to remain bare for over 6 months without being seeded and mulched.

Also, when deemed necessary, positive steps shall be exercised to prevent soil from damaging adjacent property and silt-up storm drainage systems, whether on or off site.

- 5) Fill shall not be placed on existing slopes steeper than 4(h) to 1(v); such slopes shall be benched.
- 6) Finished graded slopes shall not be steeper than 3(h) to 1(v).
- 7) High plastic clay shall not be used for fill under footings, slabs-on-grade or pavements.
- 8) Soil under pavement, footings and slabs shall be compacted to not less than 95 percent of the maximum dry density as determined by the standard Proctor method (ASTM D-698).
- 9) Site retaining walls shall be constructed using precast concrete segmental block facing and geotextile soil reinforcement. Plans and specifications shall be furnished to MasterCard and shall be signed and sealed by a Missouri Registered Professional Engineer.

- 10) Estimated earthwork quantities: Embankment = 124,432 c.y. Total Excavation = 262,320 c.y. Excavation Rock = 14,262 c.y. Excavation includes topsoil stripping, and other earthwork quantities. No swell or shrinkage factors are included themselves as to the accuracy of the earthwork quantities.
- 11) If the rock content of the fill material precludes compaction testing in accordance with ASTM D-698, material shall be installed in accordance with Section 203.0.19 of the Missouri Standard Specifications for Highway Construction.
- 12) Granular material placed beneath footings, floor slabs or pavements shall be compacted to a relative density of 75 percent, as determined by ASTM D-4254.
- 13) Bidders are advised that a geotechnical investigation of the site was performed by Reitz & Sons, Inc. Their report is dated April 26, 1993.
- 14) See specification section: 2300 Earthwork, for additional requirements.
- 15) Total Site Acreage: 52.08 ac.
Existing woods within lot area: 22.28 ac.
Existing woods to be removed: 51.9 ac.
(Required as per City of Otterville Zoning -20% To remain--39.82%)
- 16) FRM Panel: 430, Map: 2918300430 E, Map Revised: August 2, 1998, Zone X.



Produced by
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of Fohn Missouri

Prepared for
MasterCard International

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Contract Number:
191

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CONSULTANT A&E

1. ##### F. #####

Issue	Date	Description	Drawn	Checked
1	7-26-98	ISSUED FOR CONSTRUCTION	DLB	SMC
2	1-17-99	DATE/COORDINATED	DLB	SMC
3	7-27-99	GRADING PERMIT	DLB	SMC
4	4-14-99	DIRECTOR'S CHECK	DLB	SMC
5	6-1-99	CITY COMMENTS	DLB	SMC
6	1-14-99	ISSUED TO PERMITS	DLB	SMC
7	1-14-99	ISSUED FOR CONSTRUCTION	DLB	SMC
8	5-29-99	ISSUED FOR CONSTRUCTION	DLB	SMC

Soil

Key Plan

CONSTRUCTION DOCUMENT

Date: 20 May 99
Project Code: 048
Drawn: DLB
Checked: SMC
CAD File: C7.DWG

Scale: 1" = 30'

GRADING & DRAINAGE PLAN
SOUTHWEST

Drawing Number: **C7**