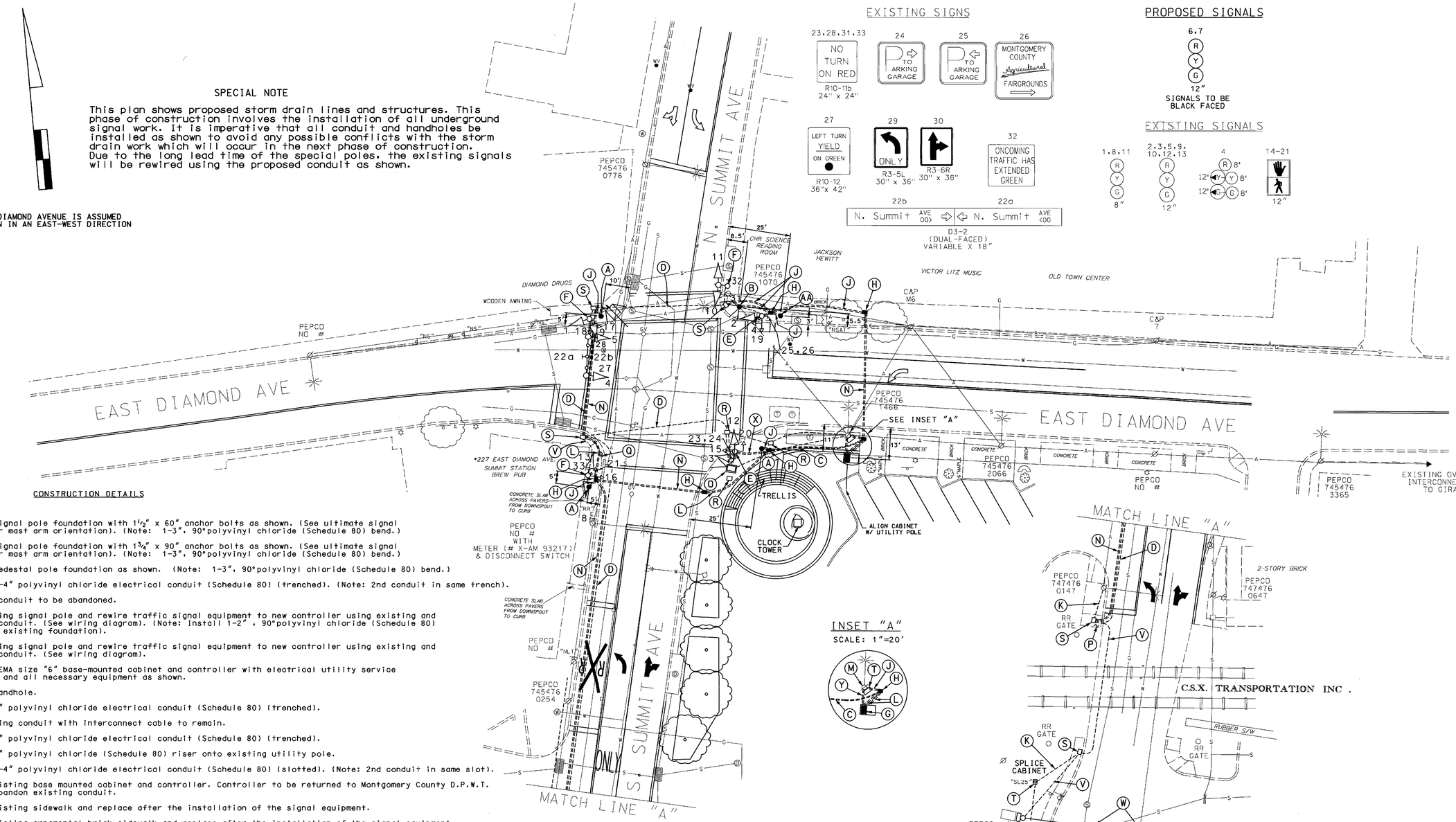
SPECIAL NOTE

This plan shows proposed storm drain lines and structures. This phase of construction involves the installation of all underground signal work. It is imperative that all conduit and handholes be installed as shown to avoid any possible conflicts with the storm drain work which will occur in the next phase of construction. Due to the long lead time of the special poles, the existing signals will be rewired using the proposed conduit as shown.

EAST DIAMOND AVENUE IS ASSUMED TO RUN IN AN EAST-WEST DIRECTION



CONSTRUCTION DETAILS

A. Install signal pole foundation with 1½" x 60" anchor bolts as shown. (See ultimate signal design for mast arm orientation). (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

AA. Install signal pole foundation with 1¾" x 90" anchor bolts as shown. (See ultimate signal design for mast arm orientation). (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

B. Install pedestal pole foundation as shown. (Note: 1-3", 90°polyvinyl chloride (Schedule 80) bend.)

C. Install 2-4" polyvinyl chloride electrical conduit (Schedule 80) (trenched). (Note: 2nd conduit in same trench).

D. Existing conduit to be abandoned.

E. Use existing signal pole and rewire traffic signal equipment to new controller using existing and proposed conduit. (See wiring diagram). (Note: Install 1-2" , 90°polyvinyl chloride (Schedule 80) bend into existing foundation).

F. Use existing signal pole and rewire traffic signal equipment to new controller using existing and proposed conduit. (See wiring diagram).

G. Install NEMA size "6" base-mounted cabinet and controller with electrical utility service equipment and all necessary equipment as shown.

H. Install handhole.

J. Install 3" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

K. Use existing conduit with interconnect cable to remain.

L. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

M. Install 3" polyvinyl chloride (Schedule 80) riser onto existing utility pole.

N. Install 2-4" polyvinyl chloride electrical conduit (Schedule 80) (slotted). (Note: 2nd conduit in same slot).

O. Remove existing base mounted cabinet and controller. Controller to be returned to Montgomery County D.P.W.T. Cap and abandon existing conduit.

P. Remove existing sidewalk and replace after the installation of the signal equipment.

Q. Remove existing ornamental brick sidewalk and replace after the installation of the signal equipment.

R. Remove existing handhole. Cap and abandon existing conduit.

S. Use existing handhole.

T. Use interconnect splice cabinet. Install new 12 conductor cable from splice cabinet to new controller.

U. Rewire new signal heads into pole-mounted cabinet with new 7 conductor cable. Install additional 7-conductor cable into existing splice cabinet and route to proposed base mounted controller at East Diamond Ave / Summit Ave.

V. Use existing conduit.

W. Remove and replace existing signal heads in same location as shown.

X. Install 2" polyvinyl chloride electrical conduit (Schedule 80) (trenched).

Y. Install 4" polyvinyl chloride electrical conduit (Schedule 80) (trenched) for electrical service by PEPCO.

GENERAL NOTES:

1. All proposed pavement markings are detailed on the Pavement Marking Plan.
2. The Contractor is to contact the Montgomery County Department of Public Works and Transportation 72 hours prior to beginning work for the purposes of marking underground signal equipment.
3. All underground utilities shown on these plans are schematic only and may not be complete. The contractor shall be responsible for notifying "MISS UTILITY" prior to construction so that all utilities may be located in the field. If the contractor perceives that a conflict between the utilities and the traffic signal will occur, the contractor shall notify the project engineer immediately so that the conflict may be resolved.

PHASE 1 SIGNALIZATION

PREPARED FOR:
CITY OF GAITHERSBURG
DEPARTMENT OF PUBLIC WORKS
800 RABBIT ROAD
GAITHERSBURG, MARYLAND 20878
PHONE ☎: (301) 258-6370

Gaithersburg

No.	REVISION	DATE	BY

STREET TRAFFIC STUDIES, LTD.
400 Crain Hwy. N.W.
Glen Burnie, MD 21061
Ph (410) 590-5500
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4389temp.DGN

EAST DIAMOND AVE AND SUMMIT AVE

TRAFFIC SIGNAL RECONSTRUCTION
CITY OF GAITHERSBURG
MONTGOMERY COUNTY, MARYLAND

RRZ DESIGN	1" = 20' SCALE		
WN DRAWN	1 OF 4 SHEET		
CHECKED			
2-27-04 DATE	PROJ No.	FILE No.	