WATER & SEWER NOTES

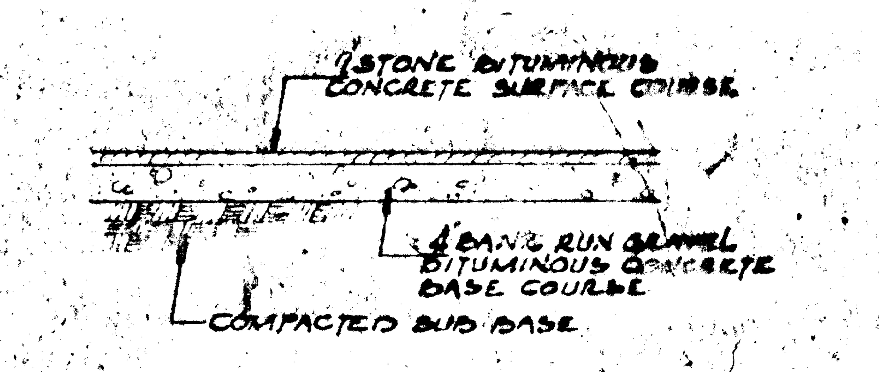
1. WATER METER, VAULT, AND CONNECTION TO EXISTING WATER MAIN BY W.S.S.C.
2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE W.S.S.C. STD. DETAILS AND SPECIFICATIONS.
3. VERIFY LOCATIONS OF W.S.S.C. WATER AND SEWER EXTENSIONS BEFORE STARTING CONSTRUCTION OF ON-SITE UTILITIES.
4. ALL 4" SEWER SHALL BE C.S.P.X. OR V.C.P.X.
5. ALL 6" WATER PIPE SHALL BE CAST IRON, CL.22.
6. ALL 1½" WATER PIPE SHALL BE COPPER, TYPE "K".

STORM DRAIN NOTES

1. DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE W.S.S.C. STD DETAILS AND SPECIFICATIONS.
2. ALL 10" & 8" STORM DRAINS SHALL BE C.S.P.X.
3. ALL 15" & 12" STORM DRAINS SHALL BE R.C.P. CL. II
4. CONNECTION OF 15" R.C.P. TO EXISTING 36" R.C.P. WILL BE AS SHOWN ON SEPARATE 8½"x11" W.S.S.C. PERMIT PLAN FURNISHED BY THE ENGINEER.

LEGEND OF MATERIALS

BRICK	GRAVEL
BLOCK	EARTH
CONCRETE	STEEL
INSULATION	WOOD



PARKING LOT PAVING SECTION

no scale

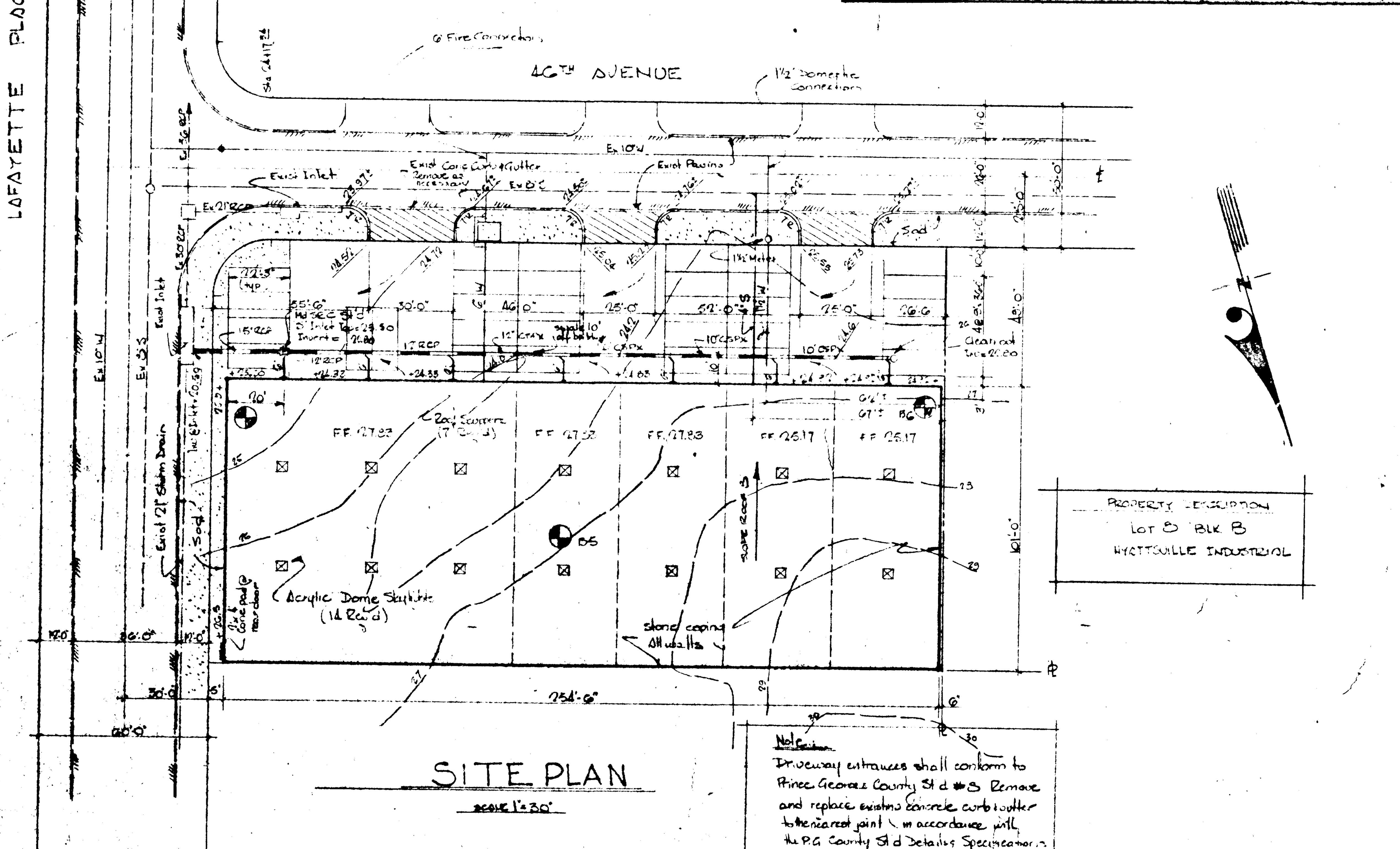
FINISH SCHEDULE

	STORAGE AREA	BATHS
FLOOR	CONC. W. HARDNER	CONC. W/ HARDNER
WALLS	EXPOSED CONC. BLOCK	PAINTED CONC. BLOCK & PAINTED ½ SHEET-ROCK OVER WOOD STUDS.
CEILING	NONE	PAINTED ½ SHEETROCK

AREA TABULATION (I-1 ZONING)

GROSS PROPERTY AREA	38,914 □'
GROSS BUILDING AREA	26,705 □'
PARKING REQUIRED	26 CARS
PARKING FURNISHED	31 CARS.

Typical parking space 9'x22'-3" = 200□'



Note:
Driveway entrances shall conform to Prince Georges County Std #3. Remove and replace existing concrete curb & gutter to the nearest joint in accordance with the P.G. County Std Details Specifications.

PROPERTY DESCRIPTION
Lot 8 Blk B
HYATTSVILLE INDUSTRIAL

See Sheet 6 for Boring Logs

STRUCTURAL NOTES AND SPECIFICATIONS

GENERAL [illegible] the furnishing of all labor, equipment, and material necessary to construct a [illegible] story [illegible]. The contract for erection of the building shall be prepared and executed in accordance with the "Standard General Conditions of the Construction Contract", of the National Society of Professional Engineers. Copies of this form are available on demand from the Office of the Engineer.

DESIGN CRITERIA A.I.S.C. Manual (1963); A.C.I. Manual (1963); B.O.C.A. Code (latest Edition).

EXISTING CONDITIONS All existing conditions and dimensions shall be determined and verified in the field prior to fabrication of any materials.

LIVE LOADS Roof - 30 psf; Warehouse floor - 250 psf; stairs - 100 psf.

SOIL VALUE In compliance with Section 725.0 as amended, we have made an investigation of the proposed site for this project. In conjunction with soil boring information supplied by Greener & Oliver, in our opinion the soil is capable of sustaining a superimposed load of 2000 psf. The soil is sandy clay and clayey sand. Final bearing value shall be ascertained at time of footing excavation.

FOOTINGS To be minimum of 2'-6" below finished grade and bearing on undisturbed soil 1'-0" below original grade. All footings not shown will be 12" thick and project 6" each side.

CONTROLLED FILL- where required shall be placed in strict accordance with the Prince Georges County Building Code and applicable A.S.T.M. Specifications. All fill shall be placed under the direction of a qualified Foundation Engineer and Testing Laboratory, Field inspection reports are to be filed with the structural engineer.

BACKFILL All backfill to be compacted by means approved by the Engineer in 6" layers. Compacted fill prior to laying of the floor slabs shall have a density and compressive value of not less than 95% of the normal undisturbed soil value, which shall be determined by an approved testing laboratory as prescribed by the pertinent A.A.S.H.O. Specifications.

EXCAVATION The Contractor shall be responsible for providing adequate vertical and horizontal support of adjacent buildings, excavation and utilities. Grade all areas as shown.

CONSTRUCTION LOADS The Contractor shall ask for and obtain the Engineer's approval before placing on the structure any loads greater than the above design loads.

CONCRETE In general to conform to the A.C.I. Building Code Requirements for Reinforced Concrete (1963). Concrete for slabs shall have a compressive strength of 3000 psi @ 28 days, with 6 bags of cement per cubic yard, and 6 gallons of water per bag of cement. Footing concrete shall be 2500 psi, with 5 1/2 bags of cement per cubic yard. Maximum slump - 5".

CONCRETE PROTECTION Reinforcing steel to have the following minimum concrete cover: footings - 3"; slabs - middle of slab

REINFORCING STEEL All reinforcing steel shall be new, high strength billet steel conforming to A.S.T.M. Specifications A-432 and A-305 (Min. Fy + 60,000 psi). All reinforcing steel shall be detailed, fabricated and placed in accordance with the latest edition of the A.C.I. Manual of Standard Practice.

WELDED WIRE MESH To conform to A.S.T.M. Specification A-185, and to be placed as indicated on the drawings. Lap edges at least 6" in each direction.

STRUCTURAL STEEL In general to conform to A.S.T.M. Specification A-36. All steel shall be detailed, fabricated and erected in accordance with the latest edition of the A.I.S.C. Manual. All connections shall develop the full strength of the beams, in general, field connections shall be made with 3/4" high strength bolts (A-325), and shop connections shall be welded. Frame all openings in roof with 4" x 4" x 5/16" angles, unless otherwise noted. All structural steel shall be painted one shop coat of light colored zinc chromate. Minimum bearing plates shall be 8" x 8" x 5/8", unless otherwise shown.

STEEL JOISTS All steel joists shall conform to the latest S.J.I. Specifications, and the Prince Georges County Building Department, in all respects. Joists shall be welded to steel supports with two 1/4" welds, 1" long.

METAL ROOF DECK To be 1 1/2", 22 gauge, galvanized or painted. Deck shall extend over three supports, and shall be capable of supporting a minimum uniform load of 50 psf. Metal deck shall be manufactured by a member of the Steel Deck Institute, and shall be installed in strict accordance with the specifications of the Steel Deck Institute.

LINTELS Unless otherwise indicated, provide loose angle lintels as follows, with one angle for each 4" of masonry, with 3 1/2" leg horizontal and 6" minimum bearing each end:

opening to 3'-0" - 3 1/2" x 3 1/2" x 1/4" L
3'-1" to 5'-0" - 4" x 3 1/2" x 5/16" L
5'-1" to 6'-6" - 5" x 3 1/2" x 3/8" L
6'-6" to 8'-0" - 6" x 3 1/2" x 3/8" L

Openings greater than 8'-0" - 8B13 with suspended 5/16" plate and minimum of 8" bearing each end. Lintels over openings in interior masonry walls, not otherwise specified, shall be pre-cast, lightweight concrete lintels with - 1-#5 bar top and bottom for each 4" width.

STEEL INSPECTION Field structural steel to be inspected by qualified inspectors approved by the structural engineer. Field inspection reports to be filed with the structural engineer within 5 days of the time of actual inspection. Inspectors must be notified of all phases of construction and welding by the general contractor.

APPROVAL OF SHOP DRAWINGS Shop drawings for all structural items mentioned above are a part of the structural design of this project, and must be submitted to and approved by this office. If a contractor or owner fails to obtain our approval of the shop drawings, we will not be responsible for the structural design of this project.

PAVING AND DRIVEWAY ENTRANCES Bituminous paving, of the section and designation shown on the drawings, and driveway entrances shall be made in strict accordance with the Prince Georges County General Specifications and Standards for Highway and Street Construction.

ROOFING To be "bonded-type" 4-ply built up over 1" rigid insulation. No bond required. Provide all membrane flashing, cants, and counter flashing, all as shown on the plans. The Contractor shall properly flash and waterproof all openings in roof for heater flues, skylights, plumbing vents and roof drains. Furnish and install skylights as shown in plans.

CARPENTRY Provide all wood framing plates, blocking and other rough lumber, securely anchored or fastened in place where shown or called for in plans. Studs and joists shall be structural grade douglas fir. Soffit shall be 1/2" exterior grade fir plywood. Provide base molding and 1/4 round at all partition walls.

DRYWALL All drywall shall be 1/2" recessed with taped joints. Provide corner beads at all outside corners.

PAINTING The Contractor to furnish all labor and materials necessary for the painting of the following areas:

1. All doors, trims and mouldings to receive two coats of semi-gloss paint.
2. All drywall to receive two coats of latex base paint. Drywall partition above entrance stairway will not be painted. Drywall at entrance soffit shall receive 2 coats of semi-gloss paint.
3. All interior masonry in bathrooms to receive two coats of alkyd base masonry paint.
4. All galvanized roof leaders and scuppers shall receive one coat of galvanized metal prime, and one coat of semi-gloss paint. Cast iron roof leader extensions shall be primed and painted to match.
5. All exposed exterior block masonry walls shall receive one coat of "Spraycrete" or approved equal.

MASONRY Clay facing brick shall conform to A.S.T.M. Specification C-216-67, oversize (5 courses per 2 block courses). Allow $52.00 per thousand. All masonry construction shall be in accordance with the American Standard Building Code Requirements for masonry. Where specified as solid, bearing walls shall be constructed of 75% solid, load-bearing masonry units. Isolated piers and pilasters shall be constructed of clay bricks with a minimum strength of 4500 psi. unless otherwise noted.

Provide #9 duro-wall or equivalent in all masonry walls every other block course (i.e. 6" o.c. vert.) unless noted otherwise. Above and below wall openings place duro-wall at 8" o.c. for two block courses. Provide 3 courses of solid brick or 100% solid masonry below all joist and slab bearing lines. Provide 16" minimum solid brick or 100% solid masonry below all lintels and/or minor wall bearing beams. Brick piers shall be fully bonded into adjacent walls. Unless otherwise specified in plans, all masonry shall conform to the following specifications:

Hollow load-bearing concrete masonry units - A.S.T.M. - C-90-65T
Hollow non-load bearing concrete mas.units - A.S.T.M. - C-129-64T
Solid load-bearing concrete masonry units - A.S.T.M. - C-145-64T
Facing Brick - A.S.T.M. - C-216-67
Mortar (Type "N"-750 psi) - A.S.T.M. - C-270-64T
(Type "M"-2500 psi - below grade) - A.S.T.M. - C-270-64T

DRAINAGE The contractor shall furnish all labor, materials and equipment for roof and parking lot drainage, including but not limited to the following:

1. Thru parapet galvanized roof scuppers
2. Galvanized leaders and cast iron leader extensions
3. Concrete drainage pipe along building wall
4. Parking lot drainage inlet and grate
5. Connection to existing storm drain inlet

Permit for field connection shall be obtained by the Engineer.

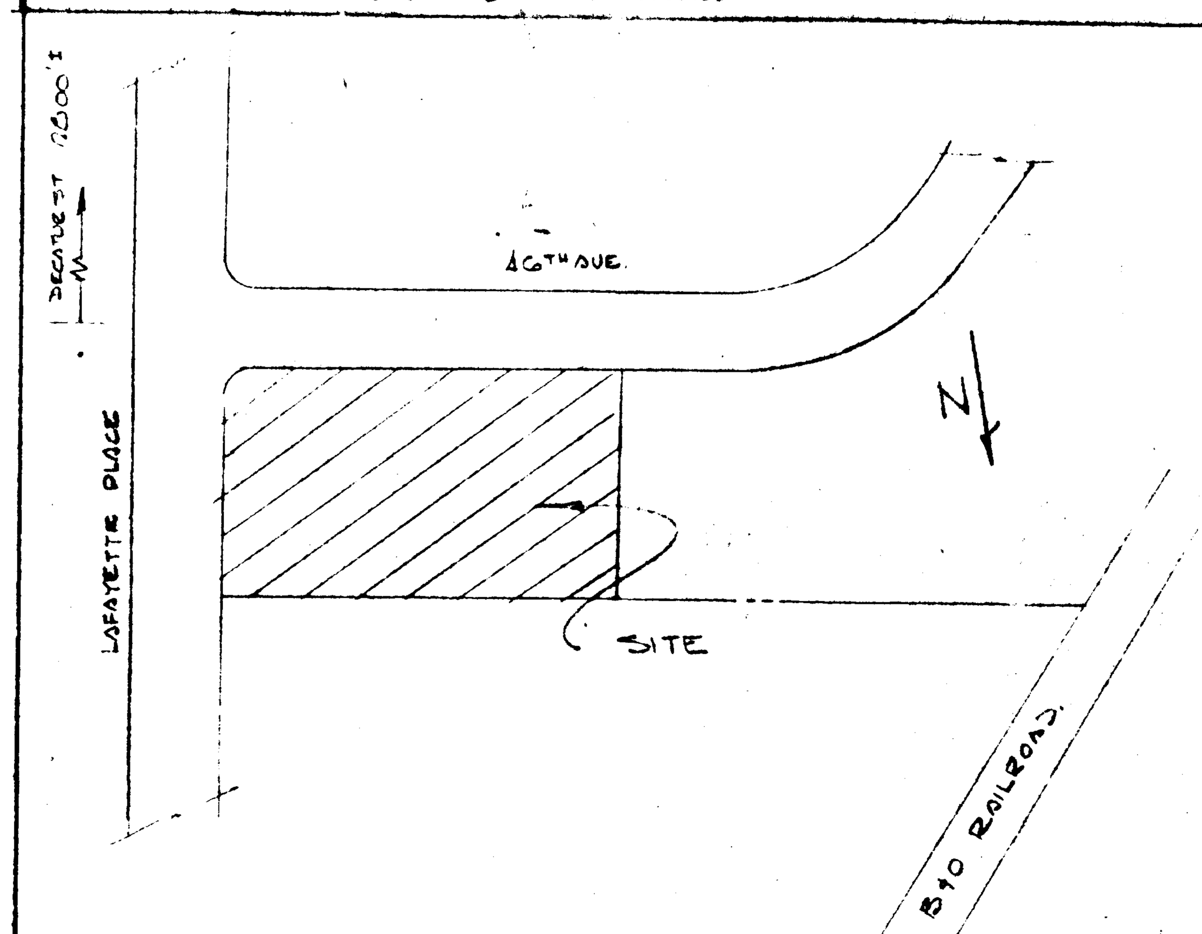
PLUMBING The contractor shall furnish all labor, materials, equipment and connection fees necessary to complete and leave ready for operation the plumbing system, in accordance with the plans and all applicable codes, including but not limited to the following:

1. Domestic water connection and distribution system
2. Sanitary sewer system and connection
3. Fire sprinkler main and connection thru and including the O.S.& Y. valve at the building wall. Interior fire sprinkler system not included in this contract.
4. Plumbing fixtures and hot water heaters
5. Individual interior water meters not included in base bid
6. All necessary gas connection and piping system

ALTERNATE BID - Interior 5/8" disk type water meters, in place. Add __________ per meter.

ELECTRICAL, HEATING AND VENTILATING The contractor shall furnish all labor, materials and equipment necessary to complete and leave ready for operation all the items in accordance with the plans and all applicable codes, including, but not limited to the following:

1. Payment of Pepco permit fees and related costs for electrical service
2. All electrical fixtures, wiring and bath exhausts. Furnish [illegible] for all lighting fixtures.
3. All gas fired space heaters.
4. Wiring of electrical equipment furnished and installed by others.



VICINITY MAP

NO SCALE

INDEX OF DRAWINGS

NO	DESCRIPTION
1	SITE PLAN, STRUCTURAL NOTES & SPECIFICATIONS
2	FOUNDATIONS · WALL DETAILS
3	ELEVATIONS & DETAILS
4	FLOOR PLANS, ELECTRICAL NOTES & DETAILS
5	ROOF FRAMING PLAN & STRUCT DETAILS
6	STRUCTURAL DETAILS, SOIL BORING LOGS
7	PLUMBING HEATING & VENTILATING

PROPOSED

WAREHOUSE NO 2

HYATTSVILLE INDUSTRIAL

EDMONSTON-PRINCE GEORGES COUNTY-MARYLAND

REVISIONS

MARTIN INDUSTRIAL PARK VENTURE
2045 University Blvd E.
Adelphi, Maryland

MACRIS AND SIMKO
Consulting Engineers
817 Silver Spring Ave.
Silver Spring, Md.