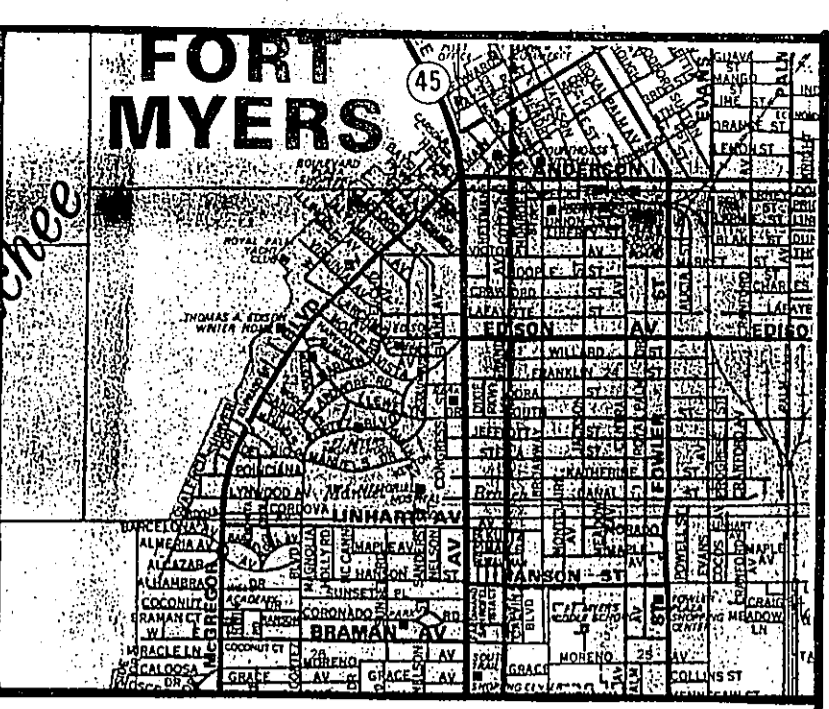


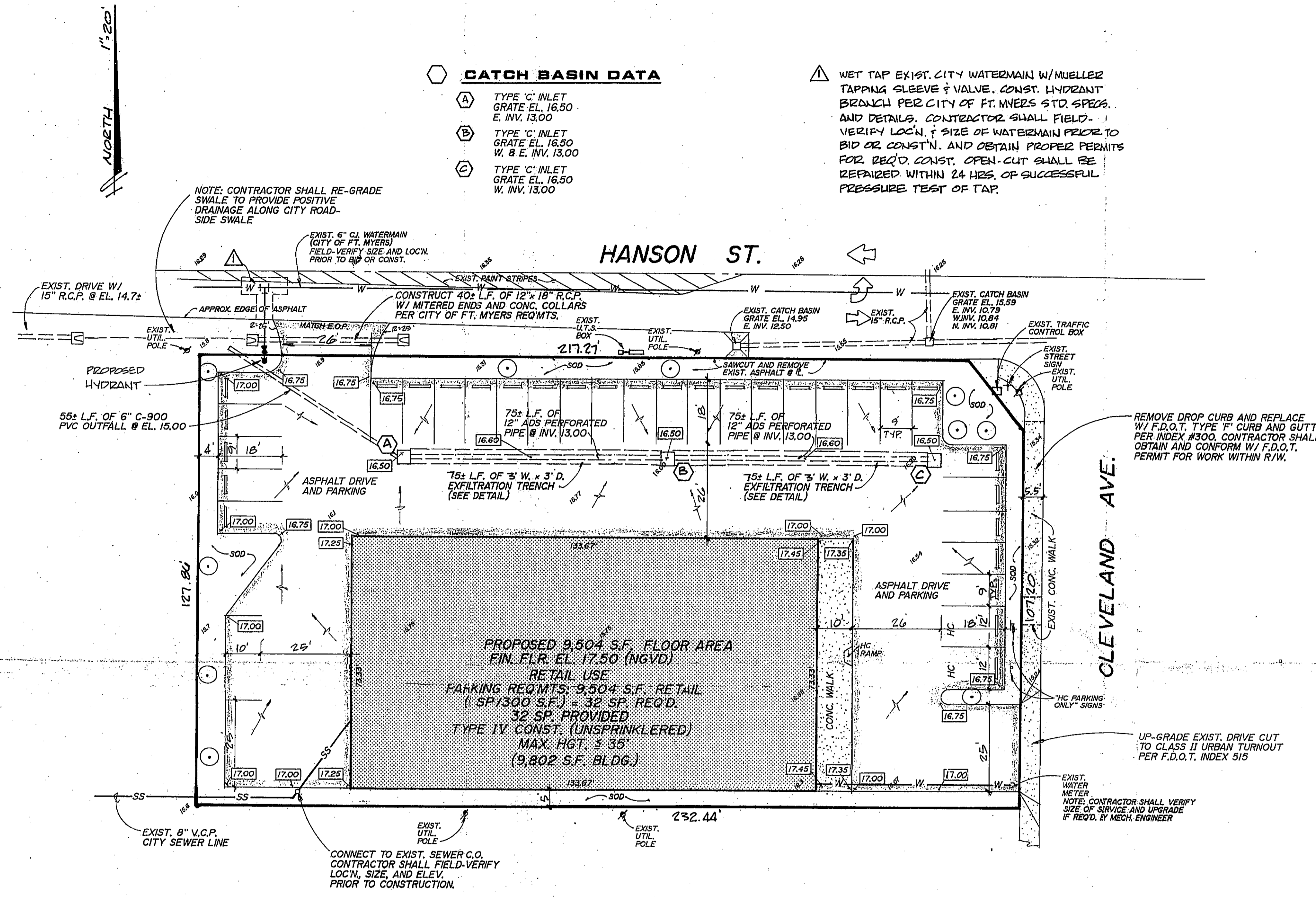
- INTERIOR LANDSCAPING
- EXISTING TREE TO REMAIN
- ▲ EXISTING TREES TO BE REMOVED
- 2.5' EXISTING ELEVATION (NGVD)
- 4.9' PROPOSED ELEVATION (NGVD)
- DIRECTION OF DRAINAGE FLOW



NO.	DATE	REVISIONS
1	01/20/89	ISSUED BY
2	02/09/89	OWNED BY
3		DESIGNED BY
4		DRAWN BY
5		CHECKED BY
6		APPROVED BY

- CATCH BASIN DATA**
- Ⓐ TYPE 'C' INLET GRATE EL. 16.50 E. INV. 13.00
 - Ⓑ TYPE 'C' INLET GRATE EL. 16.50 W. & E. INV. 13.00
 - Ⓒ TYPE 'C' INLET GRATE EL. 16.50 W. INV. 13.00

WET TAP EXIST. CITY WATERMAIN W/ MUELLER TAPPING SLEEVE & VALVE. CONST. HYDRANT BRANCH PER CITY OF FT. MYERS STD. SPECS. AND DETAILS. CONTRACTOR SHALL FIELD-VERIFY LOCN. & SIZE OF WATERMAIN PRIOR TO BID OR CONST'N. AND OBTAIN PROPER PERMITS FOR REQ'D CONST. OPEN CUT SHALL BE REPAIRED WITHIN 24 HRS. OF SUCCESSFUL PRESSURE TEST OF TAP.



- GENERAL NOTES - CAL GAETA COMMERCIAL BLDG.**
- COASTAL SETBACK LINES DO NOT APPLY TO THIS PARCEL.
 - THERE ARE NO APPARENT ENVIRONMENTALLY SENSITIVE LANDS OR HABITAT FOR ENDANGERED SPECIES ON THIS PARCEL.
 - WATER METER SIZE BASED UPON EXPECTED USAGE OF LESS THAN 20 gpm; MAXIMUM # OF FIXTURE UNITS 10 OR LESS.
 - THERE ARE NO APPARENT FLOWING WELLS ON THIS PARCEL; IF ANY ARE FOUND DURING CONSTRUCTION, THEY WILL BE PLUGGED IN ACCORDANCE WITH S.F.W.M.D. AND D.E.R. WELL PLUGGING REQUIREMENTS.
 - ALL ELEVATIONS ARE BASED UPON NGVD 1929, REFER TO SURVEY BY DUANE HALL ASSOC. FOR VERIFICATION OF ALL SURVEY INFORMATION SHOWN HEREON AND DESCRIPTION OF BENCHMARKS.
 - SOD ALL SWALES, BERMS, RETENTION/DETENTION AREAS, AND SLOPES WITHIN LIMITS OF CONSTRUCTION.
 - WATER SERVICE WILL BE PROVIDED BY CONNECTION TO AN EXISTING CITY OF FT. MYERS WATER SYSTEM.
 - SEWER SERVICE WILL BE PROVIDED BY CONNECTION TO CITY SEWER SYSTEM.
 - NO WELL FOR IRRIGATION OF LANDSCAPED AREAS IS PROPOSED.
 - NO OFF SITE DRAINAGE FLOWS SIGNIFICANTLY AFFECTS THIS PARCEL. SITE SHALL BE FINISH GRADED TO DIRECT ALL RUNOFF TO THE RETENTION AREA.
 - ALL EXISTING STRUCTURES ON SITE TO BE REMOVED BY CONTRACTOR IN ACCORDANCE WITH APPLICABLE ORDINANCES AND LAWS.
 - THE PROJECT IS IN A "B" F.I.R.M. FLOOD ZONE; NO MINIMUM FIRST FLOOR ELEVATION IS SET FOR THIS AREA.
 - CONTRACTOR SHALL INSURE THAT NO ADVERSE WATER QUALITY OR QUANTITY IMPACTS OCCUR DURING CONSTRUCTION. SHOULD SUCH IMPACTS OCCUR THE CONTRACTOR SHALL MITIGATE SAID IMPACTS AT HIS EXPENSE.

Drainage Calculations

Following the City of Fort Myers requirements for stormwater management, and using South Florida Water Management District's criteria outlined in S.F.W.M.D. Volume IV, "Basis of Review" section 3.2.2.2 (Water Quality); as amended on January 8, 1986.

I. The Postdevelopment Site Plan indicates the following:

- Total Area = 29,486 sf
- Impervious Area = 25,540 sf (86.6%)
- Roof = 9,504 sf (32.2%)
- Other = 16,036 sf
- Pervious Area = 3,946 sf (13.4%)

II. Calculate the Required Storage Volume

- First inch of runoff over the total site.

$$Q = 29,486 \text{ sf} \times 1" \times 1.1/12" = 2,457 \text{ cf}$$
- Runoff of 2.5" times the % impervious, as calculated per section 3.2.2.2.(e), over the total site.

$$\% \text{ Imp.} = 16,036 \text{ sf} / (29,486 - 9,504) \text{ sf} = 0.803 \text{ or } 80.3\%$$

$$Q = 2.5" \times 1.1/12" \times 0.803 \times 29,486 \text{ sf} = 4,930 \text{ cf}$$

III. Exfiltration trench design as per section 3.2.2.7 of "Basis of Review" and section V of "Surface Water Management System Design Aids" from S.F.W.M.D.'s Volume IV.

$$L = V / (K(H_2 + 2H_2D_u - D_u^2 + 2H_2D_s) + (1.39 \times 10^{-4}) \times Wd_u)$$

where: L = Length of trench required (feet)
 V = Storage volume required (ac-in)
 W = Trench width (feet)
 K = Hydraulic conductivity (cfs/sf-ft head)
 D_u = Depth to water table (feet)
 D_s = Non-saturated trench depth (feet)
 D_u = Saturated trench depth (feet)

"K" determined by Ardman & Assoc. testing Lab on 6/21/89 following criteria outlined in section V of "Surface Water Management System Design Aids" from S.F.W.M.D.'s Volume IV.

$$L = \frac{4,903 \text{ cf} \times 1 \text{ ac}/43,560 \text{ sf} \times 12^3/12}{4.29 \times 10^{-4} \times (3.75 \times 3 + 2 \times 3.75 \times 2.25 - 2.25^2 + 2 \times 3.75 \times 0.75) + 1.39 \times 10^{-4} \times 3 \times 2.25}$$

$$L = 102.5 \text{ feet}$$

General Site Data - Gaeta Commercial Bldg.

Total Area = 29,486 sf

Landscaping Calculations

I. General Landscaping Requirements

Site is zoned "B-2", tree canopy required per Ord. 2307 is 10% of total lot area: 2,949 s.f. required. The plan shows 10 - 300 s.f. canopy trees planted; total canopy provided = 3,000 s.f. (does not credit any existing trees on site).

II. Parking Areas Landscaping Requirements

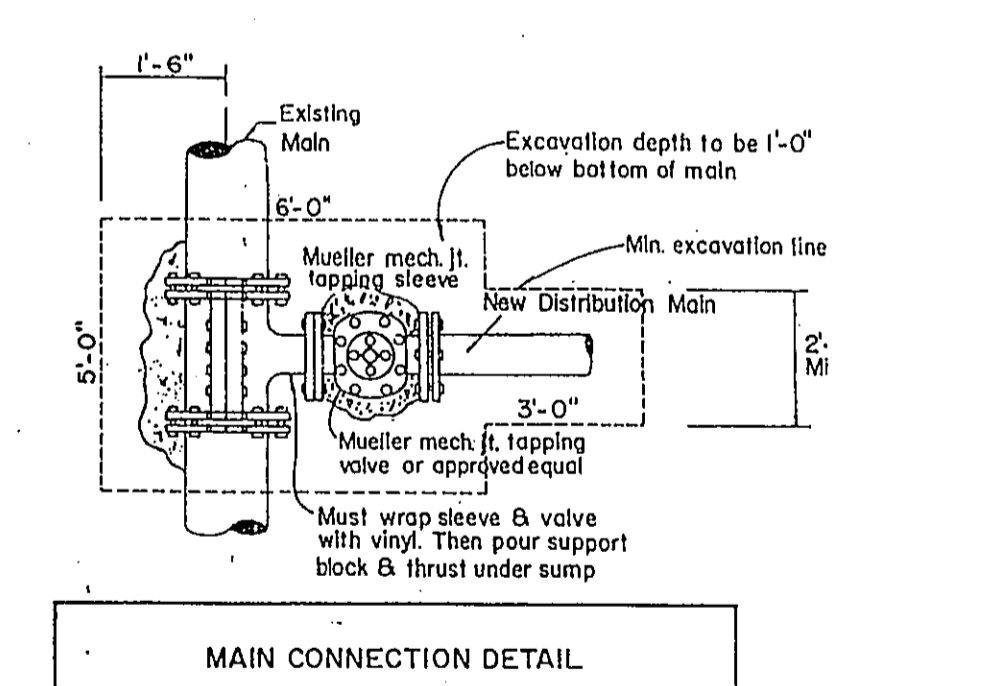
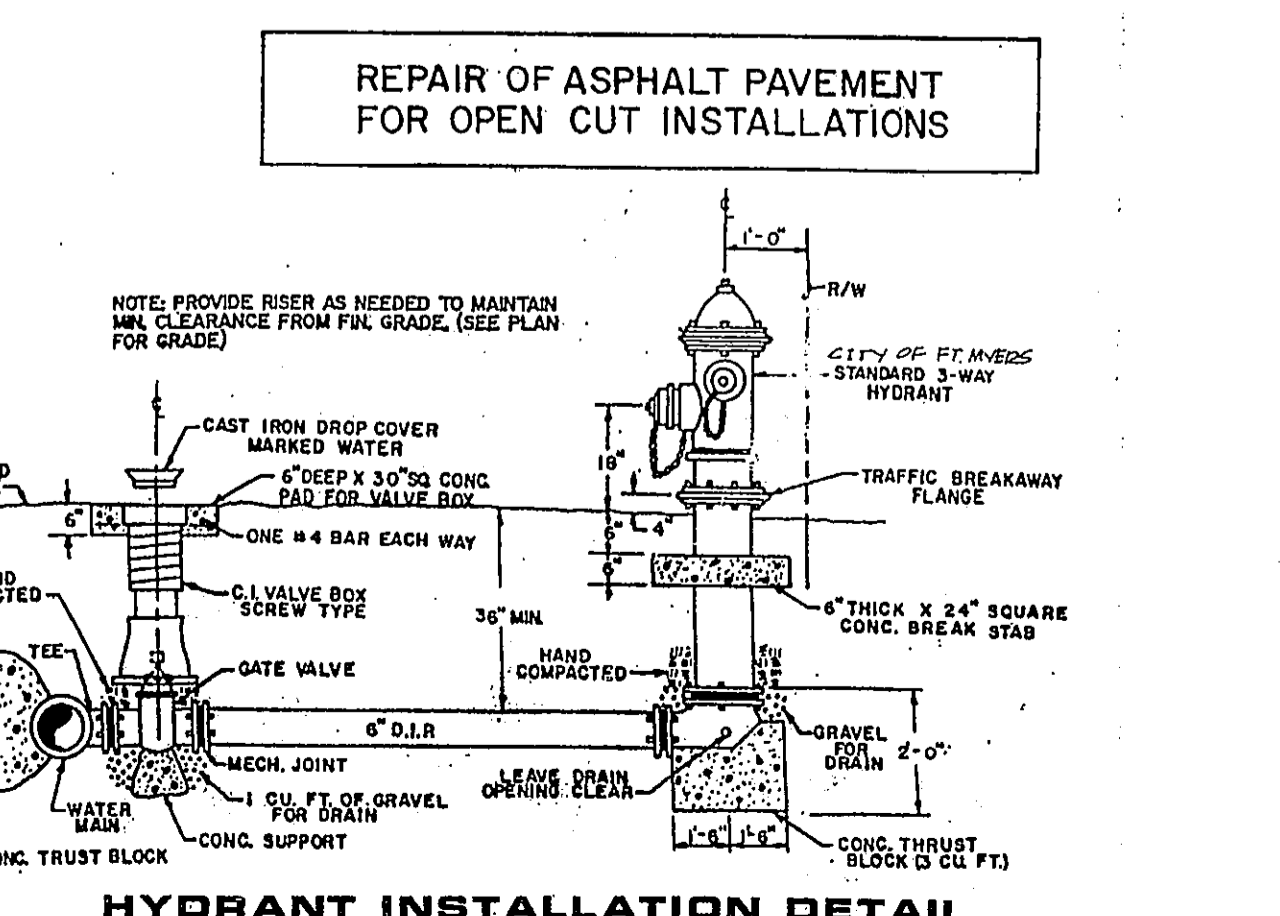
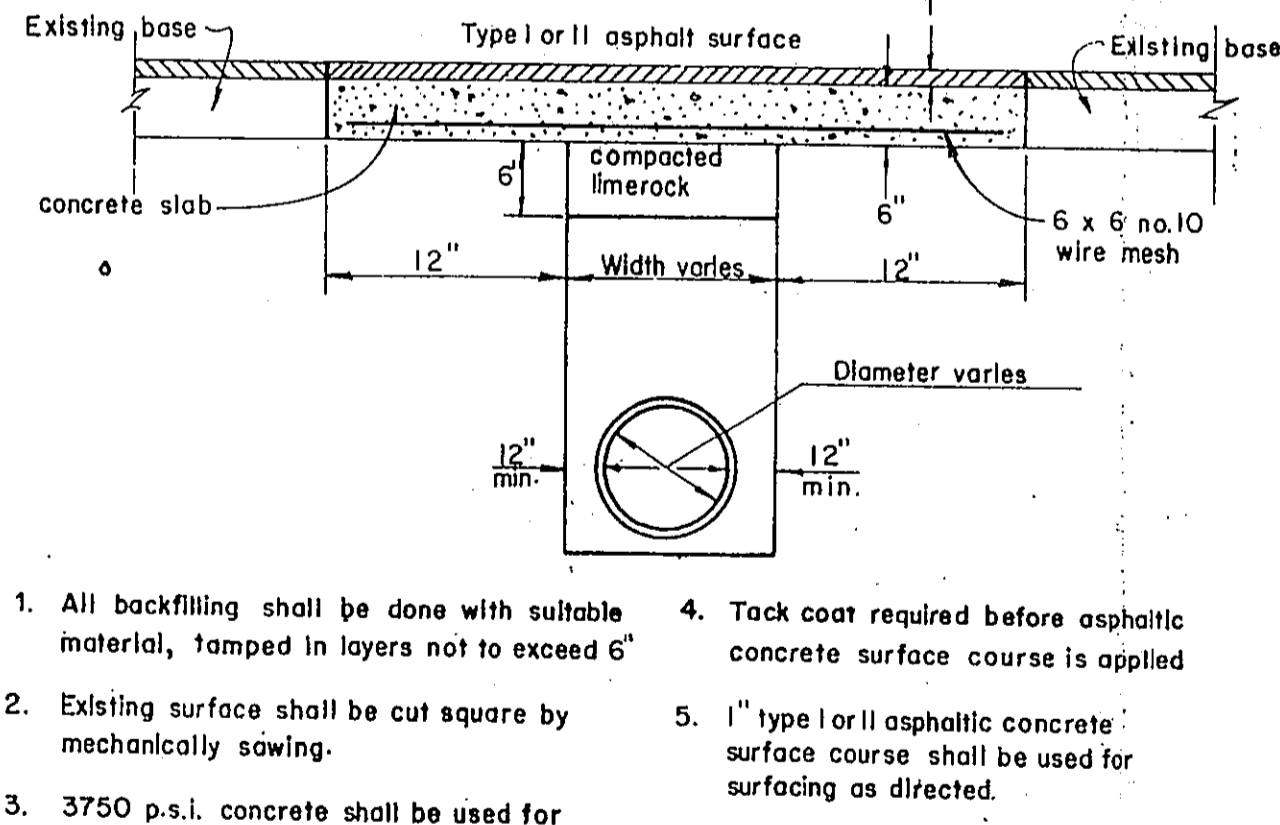
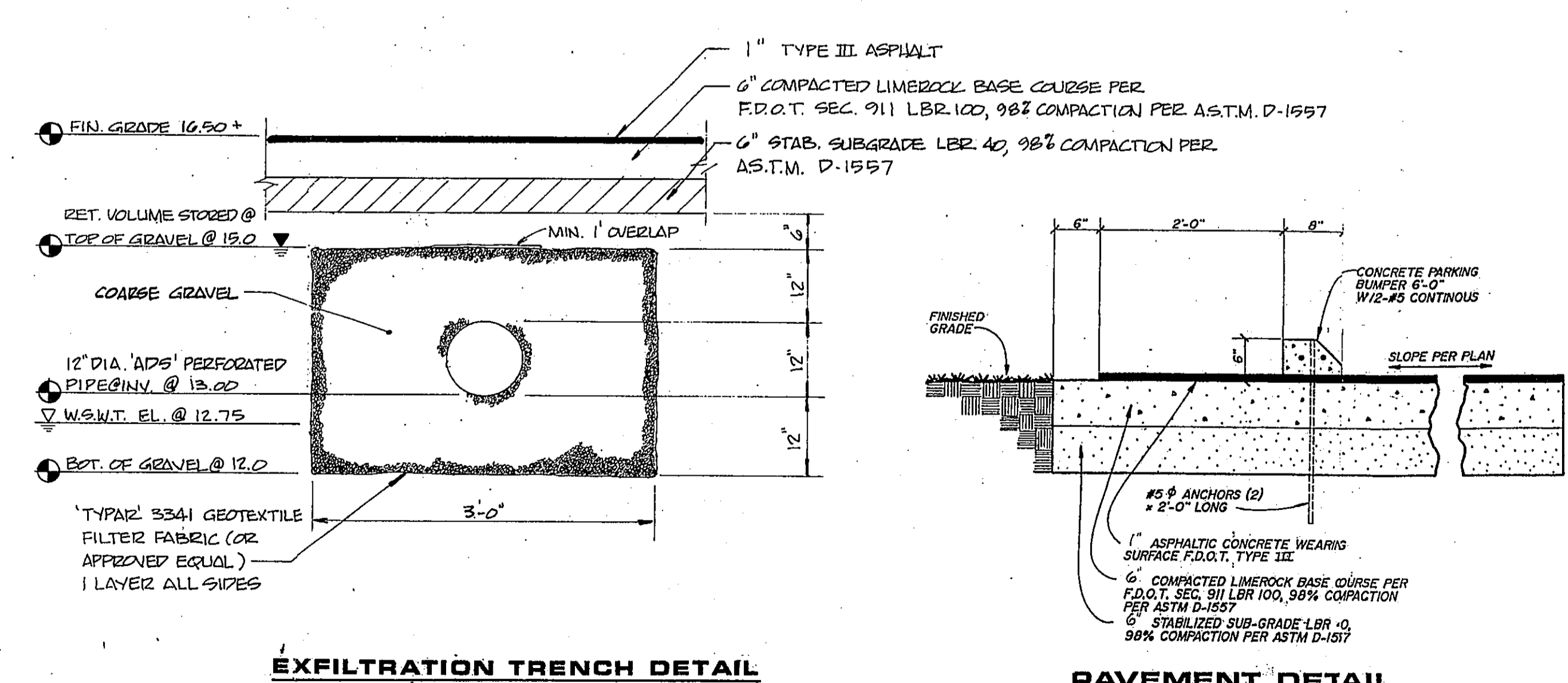
A minimum 5% landscape area is required for parking areas in excess of 24,900 s.f., if greater than 10,000 s.f., 50% of landscape area must be internal areas: 24,900 sf * 0.05 = 1,247 s.f. (623 s.f. internal). Plan shows over 2,725 s.f. of landscape area adjacent to new parking area constructed.

III. Plant List*

Name	Height	Quantity
Mahogany (300 s.f.)	6 ft.	7
Black Olive (300 s.f.)	6 ft.	7

*Equal approved indigenous (native) species may be substituted based upon availability of listed species and desires of owner or owner's landscape architect. Existing vegetation may be saved and credited per Ord. 2307.

*These trees must have a minimum 3/4" caliper at 4.5' above the ground and a minimum canopy of 2' at time of planting.



DEMOLITION NOTE

Using only the means and equipment approved for this purpose by the governmental agencies having jurisdiction, demolish and completely remove from the job site the existing construction designated to be removed.

- Shut off, cap, and otherwise protect existing public utility lines in accordance with the requirements of the public agency or utility having jurisdiction.
- Completely remove footings, foundations, and above-ground and under-ground construction of all kinds.
- Remove rocks larger than 6" diameter, roots, and debris.

Demolished material shall be considered to be property of the Contractor and shall be completely removed from the job site.

Use means necessary to prevent dust becoming a nuisance to the public, to neighbors, and to other work being performed on or near the site.

PROJECT: **GAETA COMMERCIAL BUILDING**

DEVELOPER: **CALVIN GAETA DEVELOPMENT CO., INC.**
 26375 HALSTED RD.
 FARMINGTON HILLS, MICH. 48331

M. W. MORRIS & ASSOCIATES, INC.
ENGINEERS & PLANNERS

P.O. BOX 06742 FORT MYERS, FLORIDA 33906 813-936-5222

SEP 16 1989

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