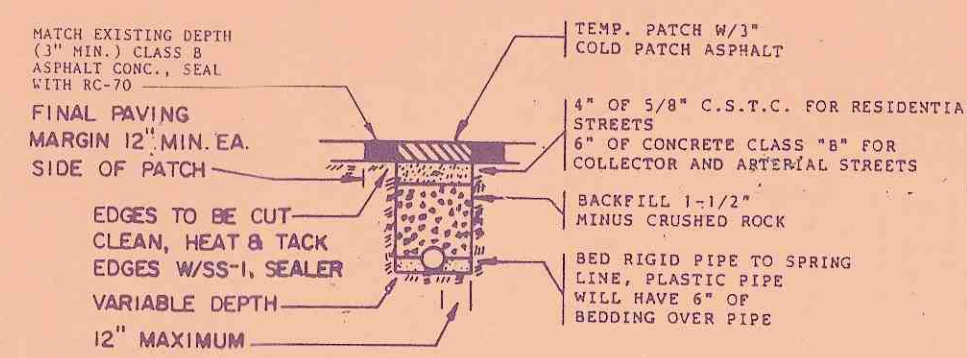


ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF MOUNTLAKE TERRACE STANDARD PLANS AND SPECIFICATIONS.

ONLY CITY PERSONNEL TO TURN OFF/ON WATER SERVICES.

SE 1/4, NE 1/4 SEC. 28, TWP. 27 N, RGE. 4 E, W.M.



2. TYPICAL ROADWAY CUT SECTION

- NOTE:
1. Fill will be compacted in 12\"/>
  2. Temporary and final patching will be done in 12\"/>
  3. After final settlement has taken place, approximately 30 days, the temporary patch will be replaced with permanent 12\"/>
  4. All work will be completed for a period of two (2) years.

TYPICAL ROAD DETAILS



## WATER GENERAL NOTES

1. All work and materials shall be in accordance with the "Standard Specifications for Road, Bridge, and Municipal Construction", Washington State Department of Transportation and American Public Works Association, Washington State Chapter, 1988 edition. Together with the latest edition of the City of Mountlake Terrace Engineering Standards.
2. An approved copy of these plans must be on site whenever construction is in progress.
3. It shall be the sole responsibility of the contractor to obtain street use and any other related permits prior to any construction activity in City right-of-way.
4. Prior to any construction activity, the City of Mountlake Terrace Engineering Department (776-1161) must be contacted for a preconstruction meeting.
5. All locations of existing utilities shown hereon have been established by field survey or obtained from available records and should therefore be considered approximate only and not necessarily complete. It is the sole responsibility of the contractor to independently verify the accuracy of all utility locations shown, and to further discover and avoid any other utilities not shown hereon which may be affected by the implementation of this plan. The contractor shall contact the utilities underground location service (1-800-424-5555) prior to construction. The owner or his representative shall be immediately contacted if a utility conflict exists.
6. The water main distribution system shall be constructed according to the approved plans which are on file in the City of Mountlake Terrace Engineering Department. Any deviation from the approved plans will require written approval from the proper agency.
7. Connections to existing facilities shall be sealed off until construction is completed. No connections will be allowed until the new water mains have passed all pressure and purity tests.
8. Water Main Pipe, Bedding, and Trench Compaction:
  - A. All water main pipe to be cement lined, Class 52 ductile iron, conforming to A.N.S.I. specifications A-21.51 (A.W.W.A. C151-76), or latest revision. Cement mortar lining and seal coating shall conform to A.N.S.I. A-21.4-74 (A.W.W.A. C104-74), or latest revision.
  - B. Pipe joints to be push-on, mechanical or flange joints.
  - C. All water main pipe fittings to be cement lined, Class 250 cast iron, conforming to A.N.S.I. A-21.10 and A-21.11-77, or latest revision.
  - D. All water main pipe bedding to be A.P.W.A. Class "C".
  - E. All water main trench backfill shall be compacted to conform to standard details shown on the plans.
  - F. All water main trench backfill shall be compacted to minimum 92% dry optimum density per A.S.T.M. D-1557-70 (modified Proctor) prior to testing water mains for acceptance.
9. All water main pipe 10" and smaller to maintain a minimum cover at 36 inches below finished grade. Where utility conflicts occur, water mains are to be lowered to clear.
10. All water mains shall be pressure tested and disinfected in accordance with the specifications of the Washington State Health Department and the City of Mountlake Terrace Standard Plan No. 208. All inspection and pressure testing shall be done in the presence of, and under the supervision of, the City Engineer and/or his representative.
11. Contractor to provide plugs and/or temporary blow-off assemblies for testing and purity acceptance prior to final tie in.
12. Fire Hydrants:
  - A. All fire hydrants shall conform to the City of Mountlake Terrace Standard Plan No. 201.
  - B. All fire hydrant ports shall face perpendicular to curb and toward driveway as shown on the plans.
13. Water Main Services:
  - A. All water main service lines to be Type "K" copper. Service connections shall be in accordance with the City of Mountlake Terrace Standard Plan No. 202 or No. 203 (double straps and corporation stops).
  - B. Meters and meter boxes to be installed by the City of Mountlake Terrace.
14. The water main to be set a minimum of 5 feet toward the roadway centerline from the curb. Buildings shall not be permitted within 10 feet, or carports within 5 feet, of the spring line of any water main where applicable, unless otherwise shown on the plans.
15. All water mains not in public right-of-way require 10 foot wide easements to the City of Mountlake Terrace.
16. All valves, existing and new, shall be operated only by the City of Mountlake Terrace. NO EXCEPTIONS!
17. Water Meter installations to be by the City of Mountlake Terrace. All Water Meters to be 3/4" size.
18. Upon Project completion, submit a set of stamped "Waterline As-Built's".

## SANITARY SEWER GENERAL NOTES

1. ALL WORK AND MATERIALS SHALL BE IN ACCORDANCE WITH THE "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE, AND MUNICIPAL CONSTRUCTION", WASHINGTON STATE DEPARTMENT OF TRANSPORTATION AND AMERICAN PUBLIC WORKS ASSOCIATION, WASHINGTON STATE CHAPTER, 1988 EDITION. TOGETHER WITH THE LATEST EDITION OF THE CITY OF MOUNTLAKE TERRACE ENGINEERING STANDARDS.
  2. AN APPROVED COPY OF THESE PLANS MUST BE ON SITE WHENEVER CONSTRUCTION IS IN PROGRESS.
  3. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN STREET USE AND ANY OTHER RELATED PERMITS PRIOR TO ANY CONSTRUCTION ACTIVITY IN CITY RIGHT-OF-WAY.
  4. PRIOR TO ANY CONSTRUCTION ACTIVITY, THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT (776-1161) MUST BE CONTACTED FOR A PRECONSTRUCTION MEETING.
  5. ALL LOCATIONS OF EXISTING UTILITIES SHOWN HEREON HAVE BEEN ESTABLISHED BY FIELD SURVEY OR OBTAINED FROM AVAILABLE RECORDS AND SHOULD THEREFORE BE CONSIDERED APPROXIMATE ONLY AND NOT NECESSARILY COMPLETE. IT IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO INDEPENDENTLY VERIFY THE ACCURACY OF ALL UTILITY LOCATIONS SHOWN, AND TO FURTHER DISCOVER AND AVOID ANY OTHER UTILITIES NOT SHOWN HEREON WHICH MAY BE AFFECTED BY THE IMPLEMENTATION OF THIS PLAN. THE CONTRACTOR SHALL CONTACT THE UTILITIES UNDERGROUND LOCATION SERVICE (1-800-424-5555) PRIOR TO CONSTRUCTION. THE OWNER OR HIS REPRESENTATIVE SHALL BE IMMEDIATELY CONTACTED IF A UTILITY CONFLICT EXISTS.
  6. THE SANITARY SEWER SYSTEM SHALL BE CONSTRUCTED ACCORDING TO THE APPROVED PLANS WHICH ARE ON FILE IN THE CITY OF MOUNTLAKE TERRACE ENGINEERING DEPARTMENT. ANY DEVIATION FROM THE APPROVED PLANS WILL REQUIRE WRITTEN APPROVAL FROM THE PROPER AGENCY.
  7. ALL NEW SANITARY SEWER LINES SHALL BE SEALED OFF AT THE EXISTING TRUNK CONNECTION POINT UNTIL ALL UPSTREAM CONSTRUCTION IS COMPLETED, CLEANED, TESTED, LAID, AND ACCEPTED BY THE CITY OF MOUNTLAKE TERRACE. ALL CONSTRUCTION DEBRIS AND WATER SHALL BE REMOVED FROM PIPE PRIOR TO OPENING SEAL.
  8. MANHOLES AND LIDS:
    - A. ALL MANHOLES SHALL BE MOUNTLAKE TERRACE STANDARD PLAN NO. 305 (48" L.D.) TYPE, WITH ECCENTRIC CONES.
    - B. OUTSIDE DROP CONNECTIONS SHALL BE CONSTRUCTED IN CONFORMANCE TO MOUNTLAKE TERRACE STANDARD PLAN NO. 307.
    - C. ALL MANHOLES SHALL HAVE A MINIMUM DROP OF 0.10 FEET BETWEEN INVERTS.
    - D. ALL MANHOLES SHALL HAVE LOCKING LIDS.
    - E. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO ADJUST ALL MANHOLE TOPS TO MATCH FINAL ASPHALT ELEVATIONS AND GROUND ELEVATIONS IN LANDSCAPED AREAS.
  9. SEWER PIPE, BEDDING, AND TRENCH COMPACTION:
    - A. ALL SEWER PIPE SHALL BE ONE OF THE FOLLOWING AS DESIGNATED: 1. P.V.C., CONFORMING WITH A.S.T.M. D-3034, SDR 35.
    2. DUCTILE IRON, CLASS 50, CONFORMING TO A.W.W.A. C151.
    3. PIPE MAY BE ANY OF THE ABOVE PROVIDED:
      - a. PIPE JOINTS MUST BE OF THE SAME MATERIALS, AND
      - b. WHERE A PIPE MATERIAL IS SPECIFICALLY SHOWN ON THE PLAN, THAT MATERIAL MUST BE USED.
    4. MINIMUM PIPE COVER AT MANHOLES SHALL BE 8.0 FEET AND 5.0 FEET BETWEEN RUNS.
  - B. PIPE BEDDING SHALL BE A.P.W.A. TYPE "F" WITH MATERIAL CONFORMING TO SECTION 9-30.7A (2).
  - C. TRENCH BACKFILL SHALL BE COMPACTED TO MINIMUM 92% DRY OPTIMUM DENSITY PER A.S.T.M. D-1557-70 (MODIFIED PROCTOR) PRIOR TO TESTING SEWER LINES FOR ACCEPTANCE.
10. SIDE SEWER LATERALS:
  - A. SIDE SEWERS SHALL BE 6" MINIMUM DIAMETER AT 2.0% MINIMUM SLOPE.
  - B. SIDE SEWERS SHALL BE TESTED FOR LEAKAGE AT THE SAME TIME THE MAIN LINE SEWER IS TESTED. IF NOT TESTED TOGETHER, PROVIDE TEST TEES AT SEWER MAIN CONNECTIONS.
  - C. BUILDINGS WITH GREATER THAN 10 UNITS SHALL BE SERVED BY ONE OF THE FOLLOWING METHODS: 1. DOUBLE 6" DIAMETER SERVICES CONNECTED TO TRUNK BY STANDARD TEES OR INTO MANHOLES.
  2. SINGLE 8" DIAMETER SERVICE WITH CLEANOUT, CONNECTED TO TRUNK INTO MANHOLES ONLY. (ALTERNATE CONNECTION METHODS ARE DEPICTED ON PLANS.)
  - D. ALL LATERAL CONNECTIONS TO SEWER MAINS SHALL BE MADE WITH WYE OR SWEEPING TEE.
11. CONSTRUCTION OF DEWATERING (GROUNDWATER) SYSTEM SHALL BE IN ACCORDANCE WITH THE A.P.W.A. STANDARD SPECIFICATIONS, SECTION 81-3.02, 1981 EDITION.
12. WHENEVER SEWERS MUST CROSS UNDER WATER MAIN, THE SEWER SHALL BE LAID AT SUCH AN ELEVATION THAT THE TOP OF THE SEWER LINE IS AT LEAST 36 INCHES BELOW THE BOTTOM OF THE WATER MAIN.
13. BUILDINGS SHALL NOT BE PERMITTED WITHIN 10 FEET, OR CARPORTS WITHIN 5 FEET, OF THE SPRING LINE OF ANY SANITARY SEWER PIPE.
14. PRIOR TO OCCUPANCY, THE DEVELOPER SHALL GRANT 10' WIDE SANITARY SEWER EASEMENTS TO THE CITY OF MOUNTLAKE TERRACE.
15. CLEANOUTS SHALL BE PROVIDED AT THE RIGHT-OF-WAY LINE FOR LATERALS ENTERING THE PUBLIC RIGHT-OF-WAY.
16. UPON PROJECT COMPLETION, SUBMIT A STAMPED SET OF "SANITARY SEWER AS-BUILT'S".

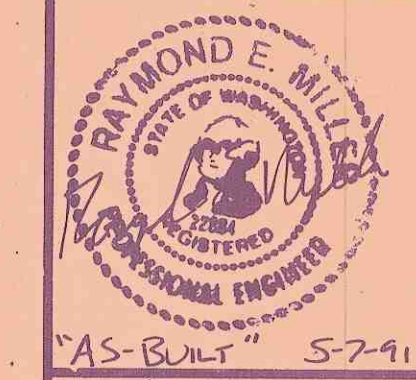
Scan Name: scans06373.pdf  
Scan Date:

**24 HOUR NOTICE**  
REQUIRED PRIOR TO NEED FOR  
INSPECTION. CALL 24 HOUR REQUEST LINE  
775-9694

IN CONFORMANCE WITH THE  
CITY OF MOUNTLAKE TERRACE  
STANDARDS AND ORDINANCES  
BY Star DATE 9-25-90

DEVELOPER: MARTIN BROWN 802 DEVELOPERS, INC.  
4806 242TH ST SW, APT #5 905 NW 200TH ST  
MOUNTLAKE TERRACE, WA 98043 SEATTLE, WA 98177  
(206) 778-3190 483-6200

AS-BUILT



**GROUP FOUR, Inc.**  
16030 JUANITA - WOODVILLE WAY NE  
BOTHELL, WASHINGTON 98011 \* 206 775-4581  
SURVEYING ENGINEERING PLANNING MANAGEMENT

MOUNTLAKE TERRACE  
SANITARY SEWER/WATER PLAN  
AS-BUILT

SHEET 2 OF 6  
JOB NO: 90-8023

SCALE 1"=30'

DATUM: CITY OF MOUNTLAKE  
TERRACE  
BENCH: WEST EDGE S.S. MH. RM  
APPROX 65' NORTH OF  
220TH ST SW  
EL: 465.35

186-91-2  
PLOTING DATE: 9/17/90