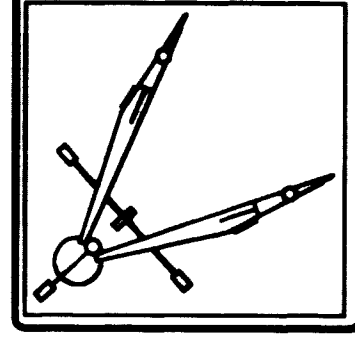


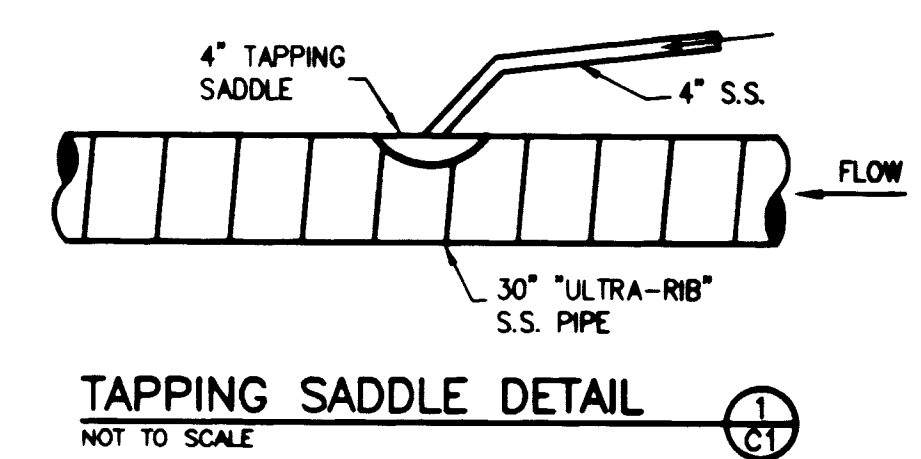
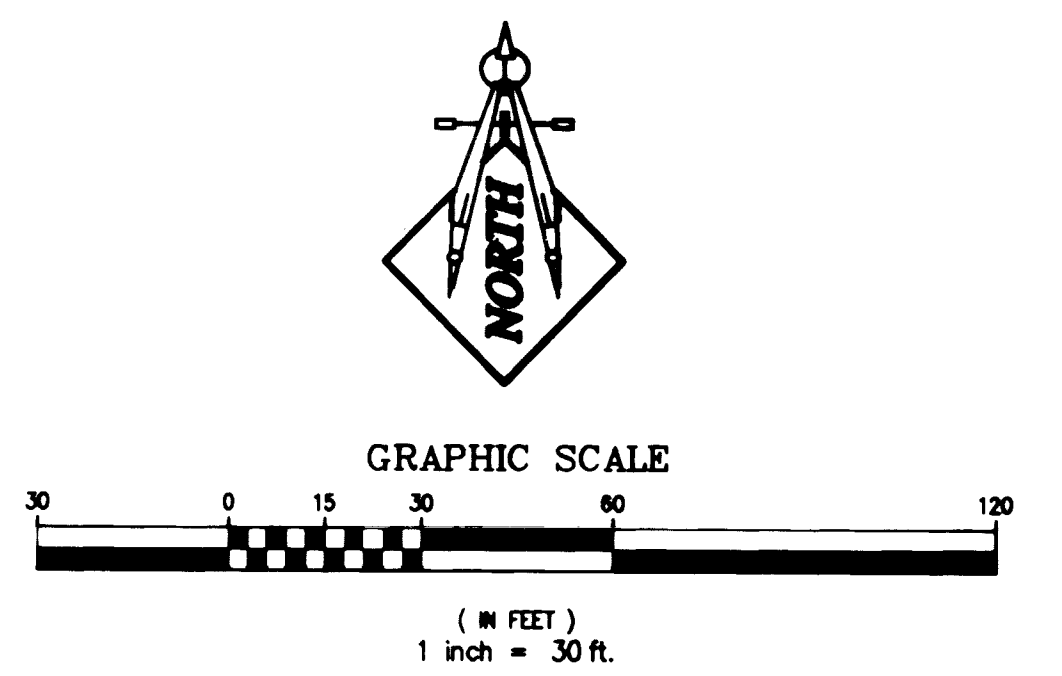
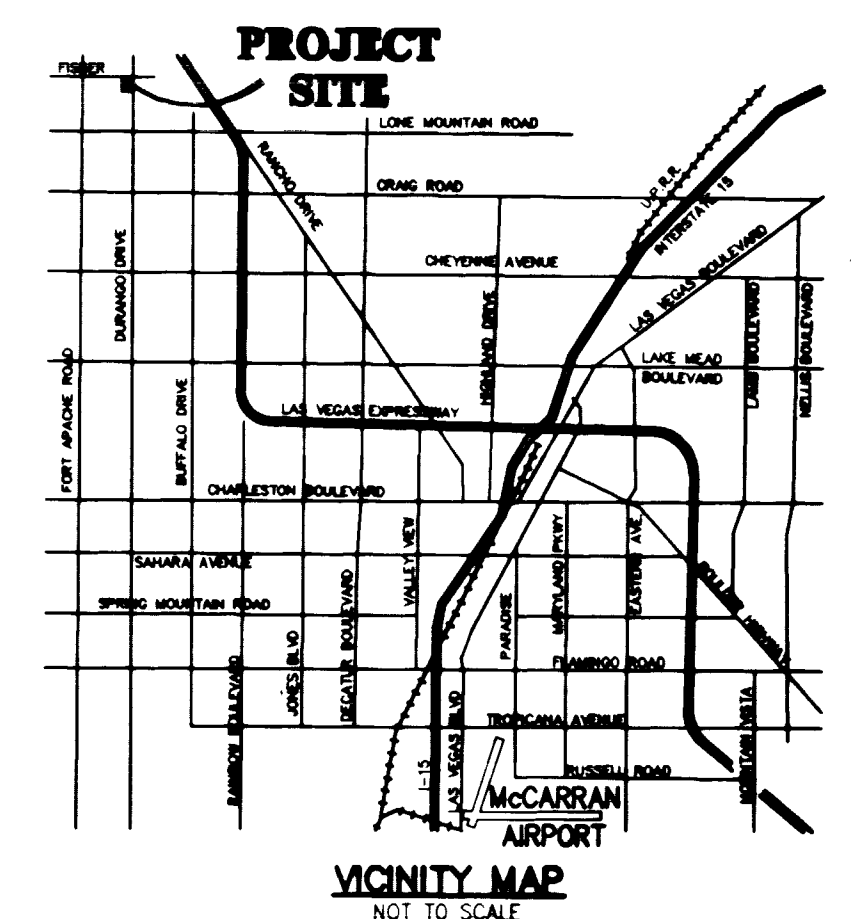
**LOCHSA ENGINEERING**  
 3081 S. Valley View Blvd.  
 Las Vegas, Nevada, 89102  
 Phone (702) 365-9312  
 Fax (702) 365-9317



**FISHER AVENUE  
 SANITARY SEWER  
 EXTENSION**

**PLAN & PROFILE**

DATE	AUGUST 12, 1996
JOB No.	1125
DESIGN BY	MARK L. HEDGE
DRAWN BY	MCC
SHEET No.	C1
SHEET	1 OF 1



**SEWER CONNECTION NOTE:**  
 ONE OR MORE SEGMENTS OF THE DOWNSTREAM SEWER SYSTEM THAT WILL SERVE THIS PROJECT HAS NOT BEEN COMPLETED AND/OR ACCEPTED FOR MAINTENANCE BY THE CITY OF LAS VEGAS. ANY WORK DONE ON THIS PROJECT PRIOR TO THE COMPLETION AND/OR ACCEPTANCE OF THE DOWNSTREAM SEWER SYSTEM(S) SHALL BE DONE AT THE DEVELOPER'S OWN RISK. THE CITY OF LAS VEGAS RESERVES THE RIGHT TO PREVENT THE PHYSICAL CONNECTION OF THIS PROJECT INTO THE DOWNSTREAM SEWER SYSTEM UNTIL ALL SEGMENTS HAVE BEEN COMPLETED AND ACCEPTED FOR MAINTENANCE, OR UNTIL SUCH TIME AS THEY ARE DEEMED AVAILABLE FOR SERVICE.

**CLARK COUNTY PUBLIC WORKS UTILITY NOTES**

- INSPECTIONS ARE REQUIRED. CALL 24 HOURS IN ADVANCE, 455-4610.
- PROPER SIGNS, BARRIERS, BARRICADES AND LIGHTS SHALL BE PLACED AND MAINTAINED IN ACCORDANCE WITH THE LATEST "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS".
- THIS PLAN DOES NOT AUTHORIZE CLOSURE OF ANY ROAD OR STREET.
- TRAFFIC, SCHOOL, OR STREET SIGNS OF ANY KIND ARE NOT TO BE MOVED FOR ANY REASON WITHOUT FIRST OBTAINING PERMISSION FROM THE DEPARTMENT OF PUBLIC WORKS, TRAFFIC MANAGEMENT DIVISION.
- ALL WORK AUTHORIZED BY THIS PLAN SHALL CONFORM TO THE "UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA" AND THE "IMPROVEMENT STANDARDS, DEPARTMENT OF PUBLIC WORKS, CLARK COUNTY, NEVADA".
- NO OPEN TRENCH SHALL BE ALLOWED ACROSS ANY STREET OR WITHIN TEN FEET (10') OF ANY TRAVEL-WAY EXCEPT WHEN WORK IS IN ACTUAL PROGRESS. AREAS COVERED BY ACCEPTABLE STEEL PLATES ARE NOT TO BE CONSIDERED AS A TRENCH. NO OPEN TRENCH PERMITTED IN EXCESS OF 500 FEET OR LENGTH NECESSARY TO ACCOMMODATE PIPE INSTALLATION IN A SINGLE DAY, WHICHEVER IS GREATER.
- A TEMPORARY PATCH IS TO BE PLACED AT THE END OF EACH WORK DAY WHERE THE BACKFILL IN THE TRENCH HAS BEEN COMPLETED AND PRIOR TO OPENING THE WORK AREA BACK TO THE TRAFFIC AND IS TO BE MAINTAINED BY THE PROMOTER. A PERMANENT PATCH IS TO BE IN PLACE WITHIN THIRTY (30) DAYS AFTER THE INSTALLATION OF THE TEMPORARY PATCH.
- COMPACTION TESTS ARE REQUIRED.
- YOUR PERMIT, APPROVED PLANS, AND BARRICADE PLANS FOR THIS WORK MUST BE ON THE JOB SITE AT ALL TIMES.
- ALL TRENCH CROSSINGS AND BACKFILL SHALL MEET THE STANDARD SPECIFICATION UNLESS OTHERWISE NOTED.

**C.L.V. SEWER NOTES**

- ALL CONSTRUCTION AND MATERIALS SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE DESIGN AND CONSTRUCTION STANDARDS FOR WASTEWATER COLLECTION SYSTEMS AND THE UNIFORM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OFF-SITE IMPROVEMENTS, CLARK COUNTY AREA, NEVADA AS AMENDED. IN ALL CASES, THESE STANDARDS SHALL SUPERSEDE THE UNIFORM STANDARD SPECIFICATIONS. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO BE AWARE OF THE CONTENTS OF THE ABOVE SPECIFICATION BOOKS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PERFORM CONSTRUCTION AS PER PLANS. ANY ADDITIONS, DELETIONS, OR CHANGES SHALL FIRST MEET WITH THE APPROVAL OF THE CONTROLLING AGENCY.
- CHISEL "S" OR "C" IN CURBS WHERE SEWER OR GAS LATERALS PASS UNDER THE CURB.
- POLYETHYLENE (PVC) SEWER PIPE SHALL MEET ASTM-D3034 SDR 35 SPECIFICATIONS, INSTALLED WITH SAND BEDDING AND BACKFILL OF TYPE I GRAVEL.
- ALL MANHOLES IN PAVED STREETS 8' W/ OR LARGER, SHALL HAVE CONCRETE COLLARS.
- TEE SADDLES SHALL BE USED TO CONNECT SEWER LATERALS TO EXISTING MAIN LINES UP TO 12" DIA. SIZE. CONNECTIONS TO 15" OR LARGER MAINS SHALL REQUIRE SPECIAL PROCEDURES.
- A SEWER MAIN CROSSING OVER A WATER MAIN OR LESS THAN 18" UNDER A WATER MAIN, MUST BE REINFORCED CONCRETE ENCASED FOR A DISTANCE NOT LESS THAN TEN FEET (10') TO EACH SIDE OF THE CENTERLINE OF THE WATER MAIN.
- ALL CONTRACTORS INSTALLING SEWER MAINS MUST BE UNDER THE JURISDICTION OF THE CONTROLLING AGENCY THAT IS CLASS "A" CONTRACTORS.
- THE CITY OF LAS VEGAS WILL NOT ACCEPT ANY SEWER MAINS WHICH HAVE A HORIZONTAL DEFLECTION OF MORE THAN ONE TENTH (0.1) OF A FOOT FROM THE APPROVED CONSTRUCTION PLANS. SEWER MAINS FOUND TO EXCEED THIS TOLERANCE WILL HAVE TO BE REPAIRED OR REMOVED AND REPLACED TO THE SATISFACTION OF THE CITY ENGINEER PRIOR TO ACCEPTANCE BY THE CITY.

**CONSTRUCTION NOTES**

- ALL WATERLINES 4" OR GREATER TO BE CL 200, C900 PVC. ALL WATER LINES SMALLER THAN 4" TO BE SCH. 40 PVC.
- ALL GRAVITY SANITARY SEWER LINES TO BE SDR-35 PVC. ALL FORCE MAIN SANITARY SEWER LINES TO BE SCH. 40 PVC.
- CONTRACTOR TO FIELD VERIFY LOCATION OF ALL UTILITY STUBS PRIOR TO CONSTRUCTION.
- MARK END OF 4" SANITARY SEWER LATERAL WITH 4' x 4' WOODEN POST.

**APPROVALS**

  
 DENNIS ANDERSON, P.E. CITY ENGINEER  
 DATE: 8-22-96

**BASIS OF BEARINGS**

SOUTH 01°20'05" WEST, BEING THE BEARING OF THE EAST LINE OF THE SOUTHEAST QUARTER (SE 1/4) OF THE NORTHEAST QUARTER (NE 1/4) OF SECTION 32, TOWNSHIP 19 SOUTH, RANGE 60 EAST, M.D.M., AS SHOWN BY MAP THEREOF IN FILE 24 OF PARCEL MAPS, PAGE 12 OF OFFICIAL RECORDS, CLARK COUNTY, NEVADA.

**BENCHMARK**

CLARK COUNTY DATUM - BENCHMARK NO. 11V90 33M C.L.V. PIN AND PLATE IN THE TOP OF CURB AT THE NORTHEAST CORNER OF DURANGO DRIVE AND WASHBURN ROAD, NEAR THE P.C. OF DURANGO DRIVE. ELEV. = 740.818 MT. / 2430.51 FT.

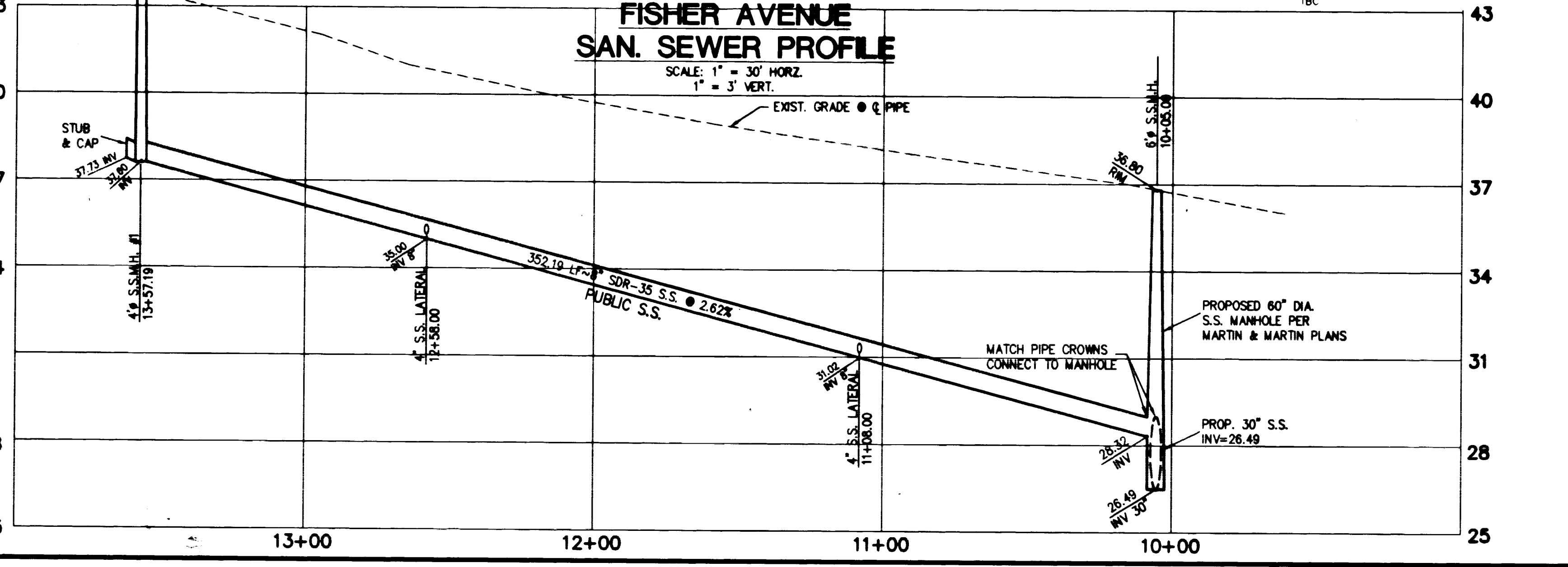
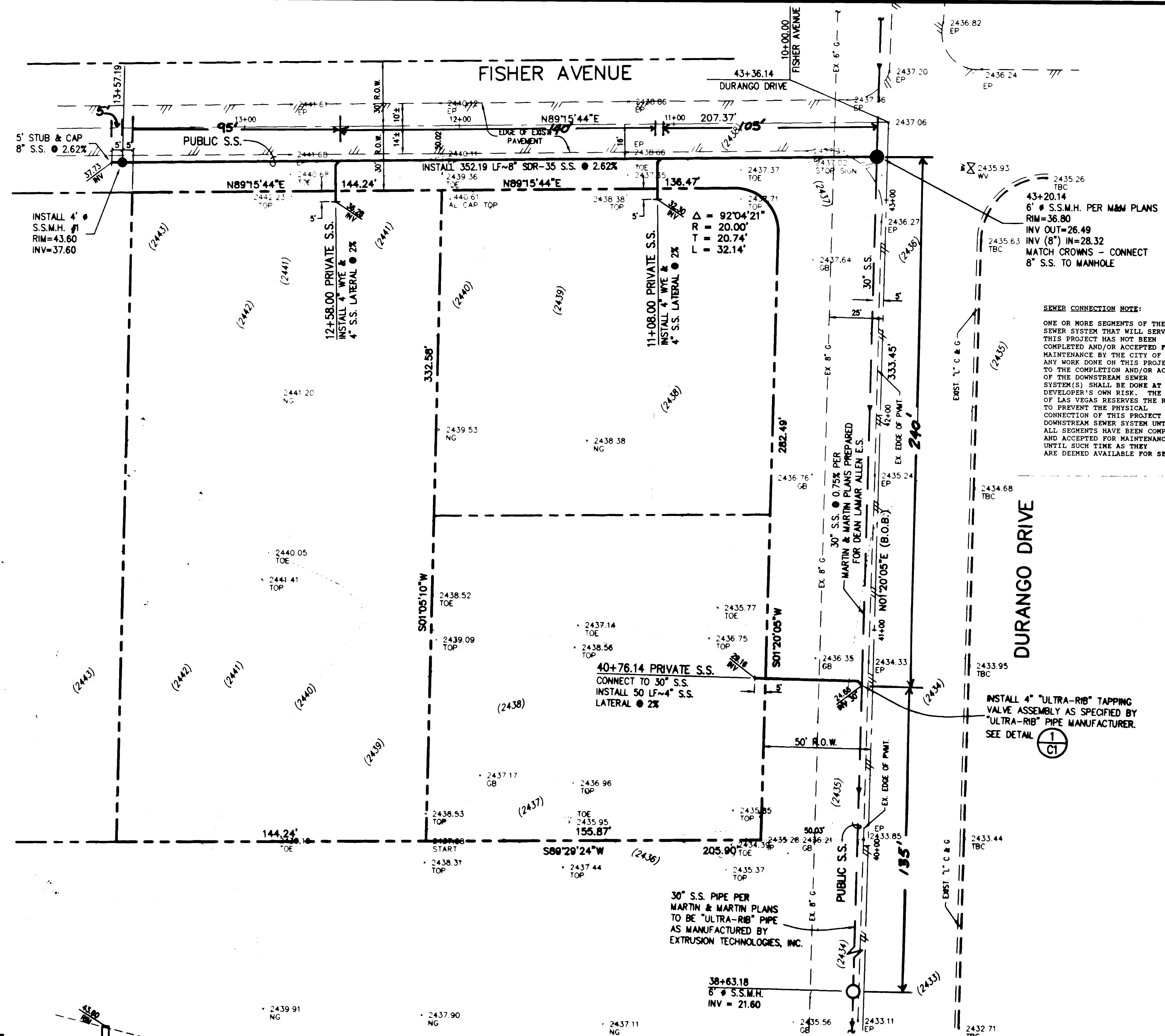
**LEGEND**

DISTING.	PROPOSED	DISTING.	PROPOSED
---	RIGHT-OF-WAY CENTERLINE	---	RETAINING WALL
---	WATER LINE	---	CHAIN LINK FENCE
---	SANITARY SEWER LINE	---	GRADE BREAK
---	GAS LINE	---	WIRE FENCE
---	STORM DRAIN	---	FRESH FLOOR
---	POWER LINE/POWER POLE	---	CLEAROUT INVERT ELEVATION
---	TELEPHONE LINE	---	---
---	FIRE HYDRANT	---	FLOW LINE
---	WATER VALVE	---	FRESH GRADE
---	METERS/PULL BOXES	---	---
---	REDUCER	---	TOP OF CURB
---	MANHOLE	---	TOP OF WALL
---	CLEANOUT	---	---
---	CONTROLLER	---	GATE
---	A.C. PAVING	---	---
---	TYPE "A" CURB & GUTTER	---	---
---	TYPE "X" CURB	---	---
---	CONCRETE	---	---

AVOID CUTTING UNDERGROUND UTILITY LINES. ITS COSTLY.  
**Call before you Dig**  
 1-800-227-2600  
 (NEVADA SERVICE ALERT (N.S.A.))

AVOID OVERHEAD POWER LINE CONTACT  
 UTILITY LINES. ITS COSTLY.  
**Call before you OVERHEAD**  
 1-702-583-6111  
 (NEVADA SERVICE ALERT (N.S.A.))  
 SAFETY SERVICE DEPARTMENT

LOCHSA ENGINEERING ASSUMES NO RESPONSIBILITY FOR EXISTING UTILITY LOCATIONS AND ELEVATIONS. THE UTILITIES SHOWN ON THIS DRAWING HAVE BEEN PLOTTED FROM THE BEST AVAILABLE INFORMATION. IT IS HOWEVER, THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES PRIOR TO THE COMMENCEMENT OF ANY CONSTRUCTION. CONTRACTOR TO FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO CONSTRUCTION. IF A CONFLICT EXISTS BETWEEN WHAT IS SHOWN ON THESE DRAWINGS AND WHAT EXISTS IN THE FIELD, THE CONTRACTOR IS TO NOTIFY THE ARCHITECT, OWNER'S REPRESENTATIVE OR ENGINEER IMMEDIATELY.



AUGUST 12, 1996

9990

"As Built" 307-V747

