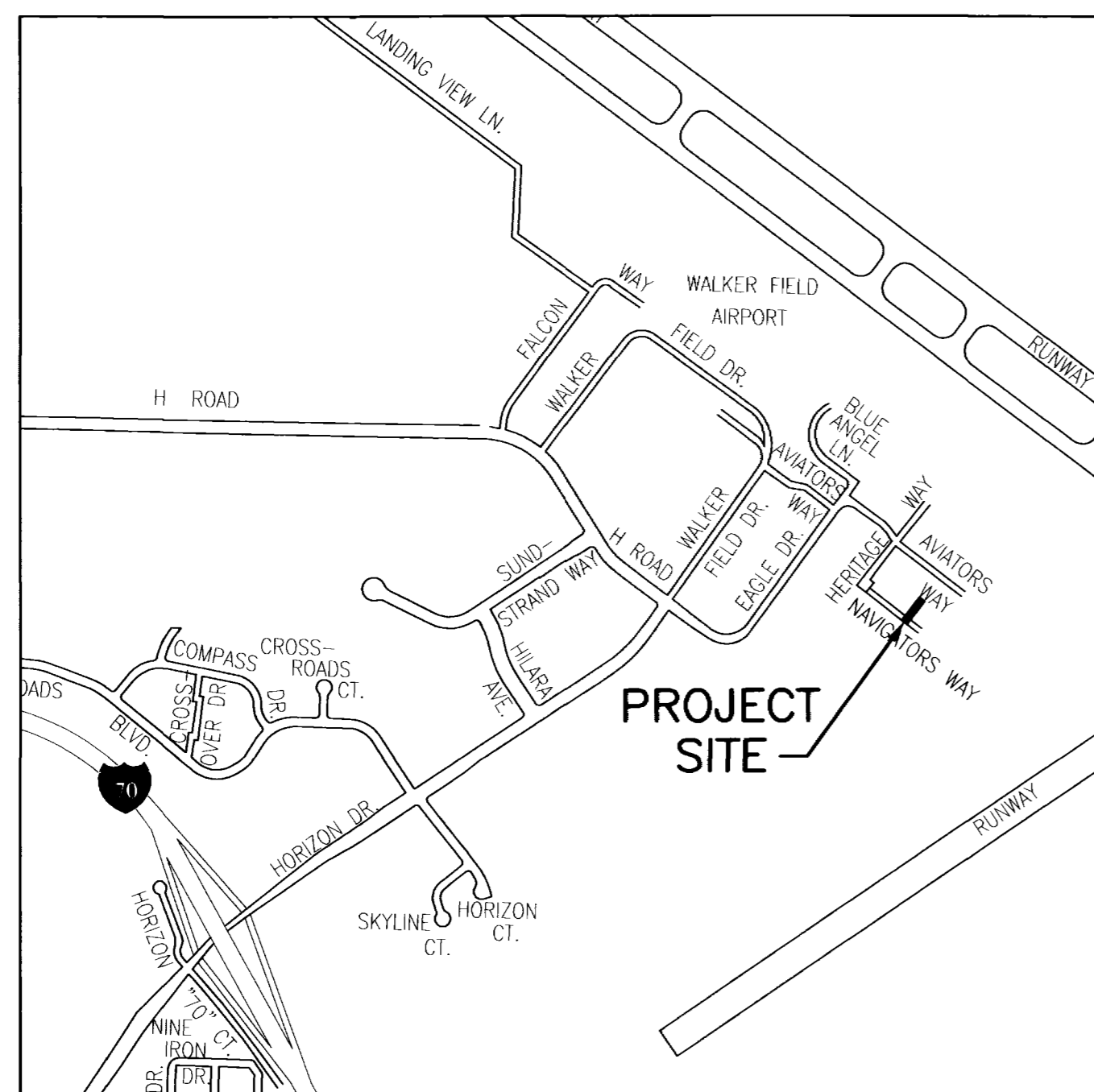


JIM FUOCO HANGAR II

NEW SEWERLINE EXTENSION

WALKER FIELD GRAND JUNCTION, COLORADO

APRIL 2000



SCALE: 1"=1000'



INDEX TO PLANS	
SHEET NO.	TITLE
1	PLAN AND PROFILE STA. 0+00 TO STA. 3+53
2	STANDARD SANITARY SEWER DETAILS

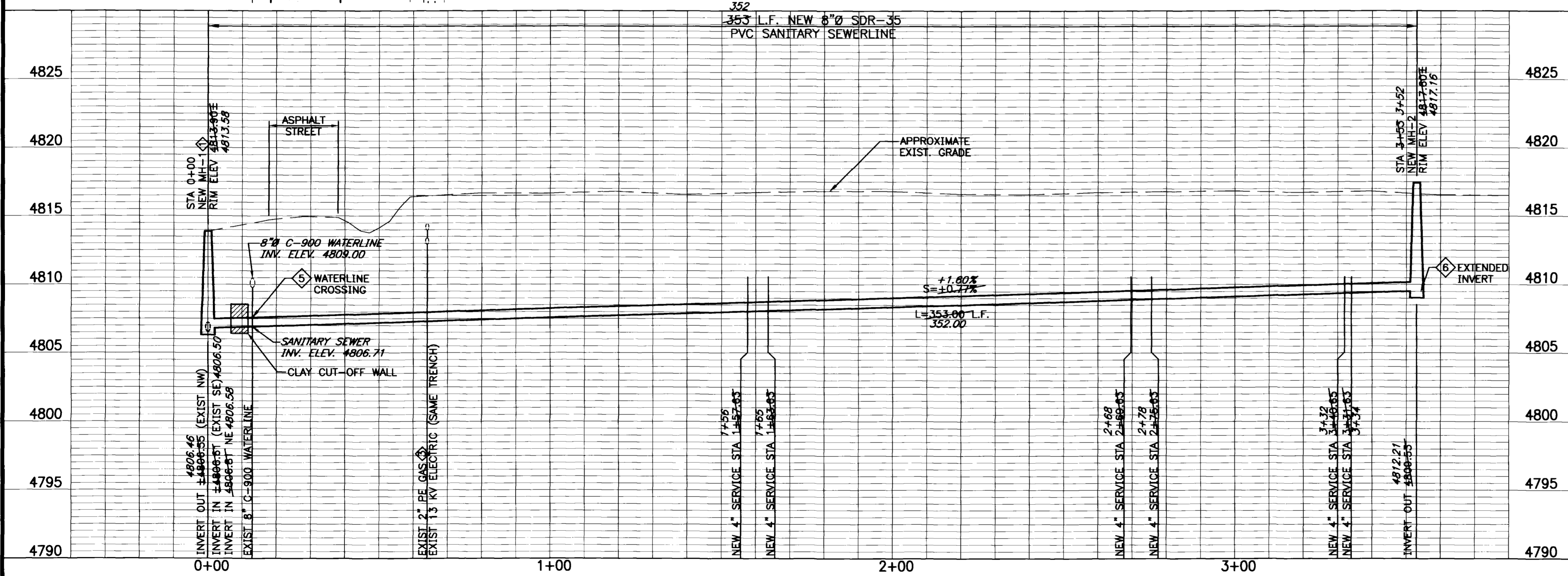
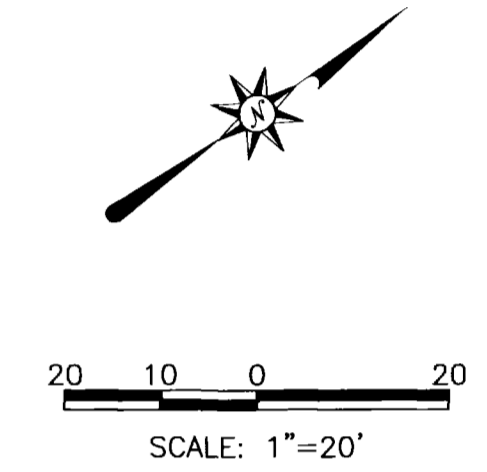
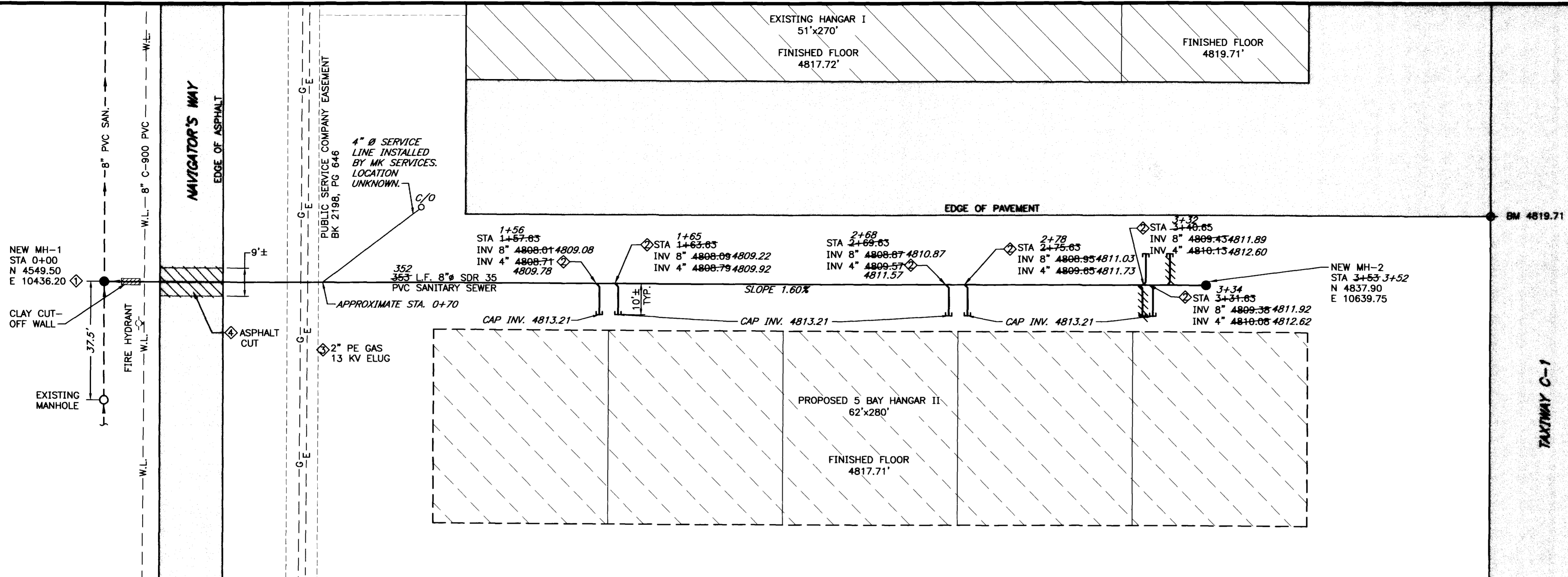
AS-BUILT SLS 08-2000

PREPARED FOR:
 JIM FUOCO L.L.C.
 GRAND JUNCTION, COLORADO



PREPARED BY:
 WESTWATER ENGINEERING
 Consulting Engineers
 Grand Junction, CO





- NOTES:**
1. ALL SANITARY SEWER CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF GRAND JUNCTION'S STANDARDS AND SPECIFICATIONS.
 2. THE CONTRACTOR SHALL NOTIFY THE CITY OF GRAND JUNCTION AND THE UTE WATER DISTRICT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
 3. THE CONTRACTOR SHALL HAVE ONE SIGNED COPY OF THE PLANS AND A COPY OF THE CITY'S STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES.
 4. ALL SANITARY SEWER MAIN PIPE SHALL BE PVC SDR 35 (ASTM 3034) UNLESS OTHERWISE NOTED. ALL PIPE SHALL BE 13-FOOT JOINTS UNLESS OTHERWISE APPROVED. TYPE 'A' BEDDING MATERIAL SHOULD BE USED. REFER TO DETAIL ON SHEET 2.
 5. ALL SANITARY SEWER SERVICES TO BE 4" PVC SDR 35 UNLESS OTHERWISE SPECIFIED. TYPE 'A' BEDDING MATERIAL SHOULD BE USED. REFER TO DETAIL ON SHEET 2.
 6. SANITARY SEWER SERVICES SHALL EXTEND 10 FT. BEYOND THE NEW SEWERLINE AND BE GLUE CAPPED AND BE MARKED WITH A 2x4 POST AND PAINTED GREEN. AS-BUILT SURVEYING FOR VERTICAL GRADE OF STUB OUTS REQUIRED PRIOR TO BACKFILL.
 7. ALL SERVICE LINE CONNECTIONS TO THE NEW MAIN SHALL BE ACCOMPLISHED WITH FULL BODY WYES. TAPPING SADDLES WILL NOT BE ALLOWED.
 8. ALL SEWER MAINS SHALL BE LAID TO GRADE UTILIZING A PIPE LASER.
 9. ALL UTILITY TRENCHES SHALL BE COMPACTED TO 95% WITHIN 2% OF OPTIMUM MOISTURE AS DETERMINED BY AASHTO T-99. COMPACTION TESTING SHOULD BE DONE THROUGH A CERTIFIED SOILS LAB.
 10. A CLAY CUT-OFF WALL SHALL BE PLACED UPSTREAM FROM ALL NEW MANHOLES UNLESS OTHERWISE NOTED. THE CLAY CUT-OFF WALL SHALL EXTEND FROM 6 INCHES BELOW TO 9 INCHES ABOVE THE SEWERLINE AND SHALL BE THE WIDTH OF THE TRENCH AND 6-FEET LONG. IF ANY NATIVE MATERIAL IS NOT SUITABLE, THE CONTRACTOR SHALL IMPORT MATERIAL APPROVED BY THE CITY.
 11. MANHOLES SHALL BE CONSTRUCTED AS SHOWN ON THE CITY STANDARD SANITARY SEWER DETAIL SHEET.
 12. NO SERVICE LINES SHALL BE CONNECTED DIRECTLY INTO MANHOLES.
 13. THE CONTRACTOR IS RESPONSIBLE FOR ALL REQUIRED SEWERLINE TESTING TO BE COMPLETED IN ACCORDANCE WITH THE CITY OF GRAND JUNCTION STANDARDS AND SPECIFICATIONS. FINAL TESTING IS TO BE ACCOMPLISHED ONLY AFTER ALL OTHER INFRASTRUCTURE HAS BEEN INSTALLED. THIS INCLUDES WATERLINES, GAS LINES, ELECTRIC LINES, ETC. TESTING WILL BE PERFORMED AFTER ALL COMPACTION OF STREET SUBGRADE AND PRIOR TO STREET PAVING. FINAL LAMPING WILL ALSO BE ACCOMPLISHED AFTER PAVING IS COMPLETED TO INSURE THAT THE LINE IS CLEAN. THESE TESTS WILL BE THE BASIS FOR ACCEPTANCE OF THE SEWERLINE EXTENSION.
 14. LOCATION OF EXISTING UTILITIES SHOWN IS APPROXIMATE ONLY, BASED ON INFORMATION FURNISHED BY UTILITY COMPANIES. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ACTUAL UTILITY LOCATION AND PROTECTION DURING CONSTRUCTION, AND RESTORATION TO UTILITY OWNERS' STANDARD. AS A MINIMUM, THE CONTRACTOR SHALL CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO AT (800) 922-1987 48 HOURS PRIOR TO STARTING CONSTRUCTION.
 15. THE CONTRACTOR SHALL PROVIDE A SOURCE OF WATER FOR SOIL MOISTURE CONDITIONING FOR COMPACTION EFFORTS, AND FOR DUST CONTROL AS NECESSARY.
 16. A 20-FOOT PERMANENT EASEMENT (10 FEET EACH SIDE OF NEW SEWERLINE) SHALL BE ESTABLISHED BY A LICENSED COLORADO SURVEYOR.

AS-BUILT SLS 08-31-2000

SCALE: HORIZONTAL 1"=20'
 VERTICAL 1"=5'

REVISIONS	DATE
AS-BUILT SLS	08-31-2000

- CONSTRUCTION NOTES:**
1. Tie into existing 8" Ø PVC sewerline with a new manhole that matches the existing sewerline flowline. The new invert in from the new sewerline extension should be 0.20-feet above the existing sewerline invert and at an angle of 90° or greater to the outgoing flow from the manhole. The Contractor shall excavate a depth of 14 inches below the flow line of the existing sewer main and provide wedges or other approved support of the existing sewerline. After the existing sewerline has been adequately supported, the top half of the pipe should be cut to springline and notched to accommodate the new invert-in. The Contractor may elect to pour the new base and invert prior to cutting the existing sewerline to accommodate the new invert. The Contractor shall also be responsible for controlling all live sewage flow and shall not allow debris from the cutting or other work to enter the existing sewer main while work is being completed.
 2. Provide a 8x8x4 inch full body wye fitting for each new service tap located on the new sewerline at the station indicated and rotated upward at 45- to 80-degrees from horizontal, with a 10-foot extension of 4" PVC service line at a ¼-inch per foot slope. Terminate service stub with a solvent weld cap marked with a 2x4 post painted green. Also refer to Details on Sheet 2.
 3. According to Public Service the 2" PE gas line and 13 KV electric line are located in the same trench about 3-feet and 4-feet deep respectively.
 4. Wheel roll or jack hammer and remove existing asphalt as shown approximately 9 feet wide and legally dispose of at an off-site location. Backfill trench with a 9" Class 6 base course for a temporary driving surface. Remove the upper 3" of road base and restore asphalt surface with hot mix asphalt.
 5. If the clear vertical distance between the waterline and the new sewerline is less than 18-inches, provide a 20-foot concrete encasement of the sewerline, centered on the waterline crossing as shown on Sheet 2. If concrete encasement is necessary, the clay cut-off wall can be eliminated.
 6. Extend sewer invert to the upstream side of the manhole to provide adequate space for cleaning and maintenance equipment.



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JIM FUOCO L.L.C. HANGAR II NEW SEWERLINE EXTENSION				
PLAN AND PROFILE STA. 0+00 TO STA. 3+53				
Design by: SLS	Drafted by: SLS	Date: 04-2000	Project No. 0011 JFH	Sheet 1 of 2