

# CONSTRUCTION PLANS FOR FRANCISCAN RESERVOIR 10" WATERLINE RELOCATION ALBUQUERQUE, NEW MEXICO

## INDEX

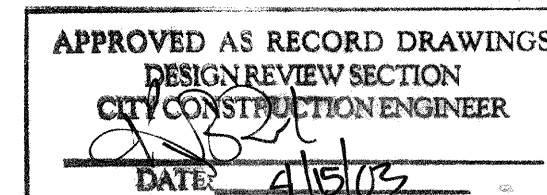
### SHEET NUMBER DESCRIPTION

1	COVER SHEET
2	UNIT 5 PRELIMINARY PLAT
3	UNIT 5 GRADING PLAN
4	OVERALL UTILITY PLAN
5	FRANCISCAN RESERVOIR 10" WATERLINE RELOCATION

I, PATRICK J. CONLEY of the firm of SMITH ENG. CO.  
A Registered Professional Engineer in the State of New Mexico, do hereby certify, to  
the best of my knowledge and belief, that the infrastructure installed as part of this  
project has been inspected by me or by a qualified person under my direct supervision  
and has been constructed in accordance with the plans and specifications, ~~while~~  
~~someone from Smith Engineering Company was on site~~, approved by the City Engineer  
and that the original design intent of the approved plans has been met, except as noted  
by me on the as-built construction drawings. This Certification is based on site  
inspections by me or personnel under my direction and survey information provided by  
THOMAS W. PATRICK (Surveyor Name) NMPS number 12651 (PS #).

PATRICK J. CONLEY, N.M.P.E. # 10141

DATE 3/13/02



### SURVEYOR'S CERTIFICATION

I, Thomas W. Patrick, a duly qualified Registered Professional Land Surveyor under the Laws of the State of New Mexico, do hereby certify that the "as-built" information shown on these drawings was obtained from field construction and "as-built" surveys performed by me, or under my supervision, that the "as-built" information shown on these drawings was added by me, or under my supervision and that this "as-built" information is true and correct to the best of my knowledge and belief. Community Sciences Corporation is not responsible for any of the design concepts, calculations, engineering and/or intent of the record drawings.

Thomas W. Patrick, NMPS 12651

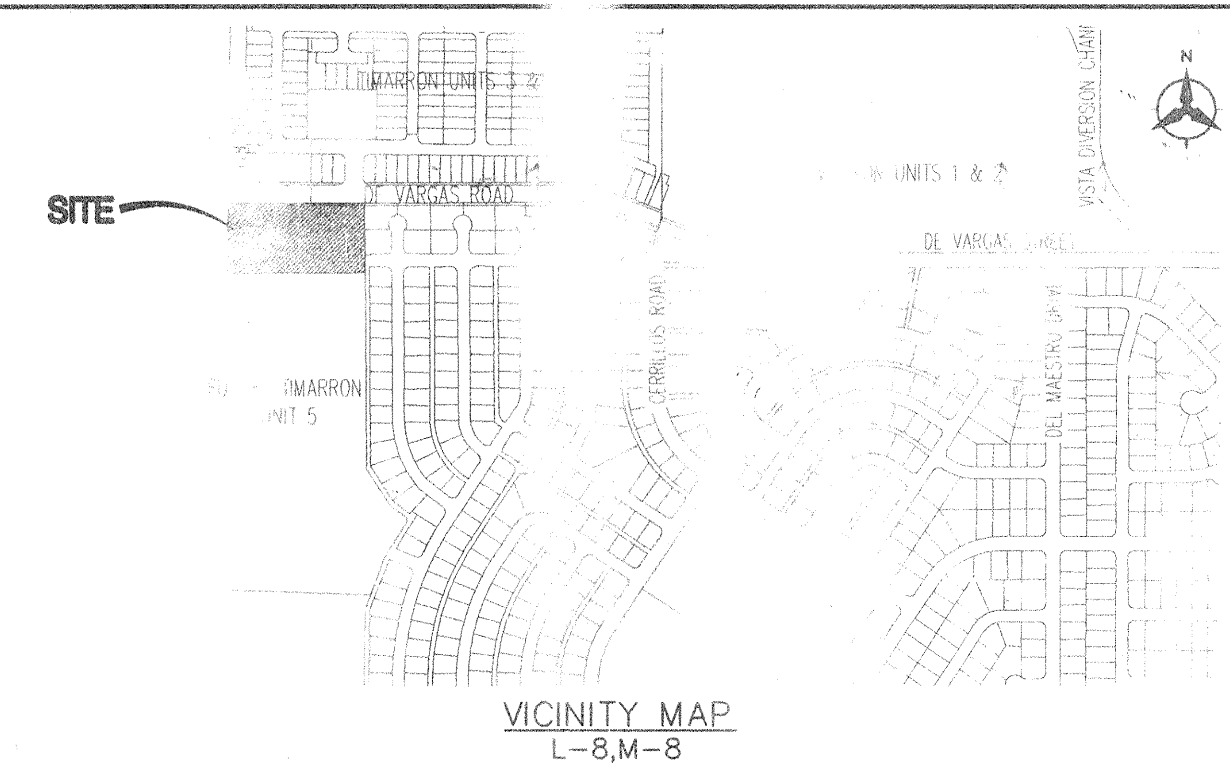
DATE 2-25-2002



Bohannon - Huston

Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



### NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS REVISED THROUGH UPDATE #6.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS, SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. FIVE (5) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO THE START OF CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY THE CONSTRUCTION COORDINATION ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFERENCE TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. ALL WORK EFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC RECTORIZED PAVEMENT MARKING BY CONTRACTOR TO THE SAME LOCATION AS WAS EXISTING, OR AS INDICATED BY THIS PLAN SET.
8. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE CITY SURVEYOR MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
9. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL CONTACT THE WATER SYSTEMS DIVISION THREE (3) WORKING DAYS PRIOR TO NEIGHBORING VALVES TURNED ON OR OFF.

### THE FOLLOWING NOTES ALSO APPLY WHEN CHECKING

- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- ☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
- ☒ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
- ☒ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
- ☒ IF CURB IS DEPRESSIONED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ALTERATION OF CURB AND GUTTER.
- ☒ ALL STORM DRAINAGE FACILITIES SHALL BE COMPLETED PRIOR TO FINAL ACCEPTANCE.
- ☒ THE REQUESTOR OR DEVELOPER SHALL BE RESPONSIBLE FOR REPAIR OR REPLACEMENT OF ALL CURB AND GUTTER OR SIDEWALK DAMAGED AFTER APPROVAL BY THE CITY ENGINEER OF WORK COMPLETED BY THE CONTRACTOR.

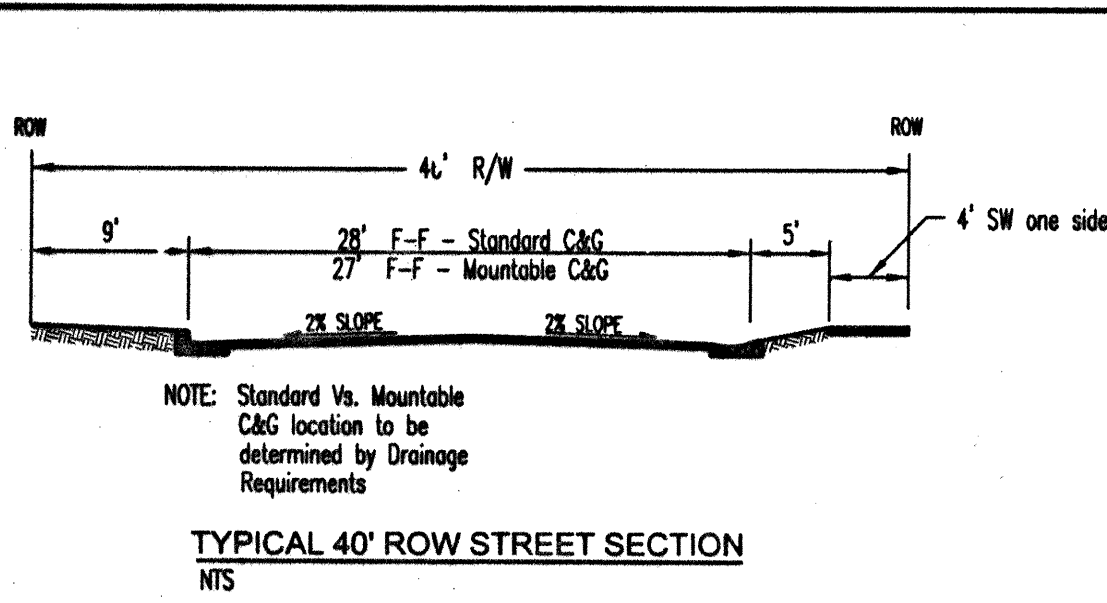
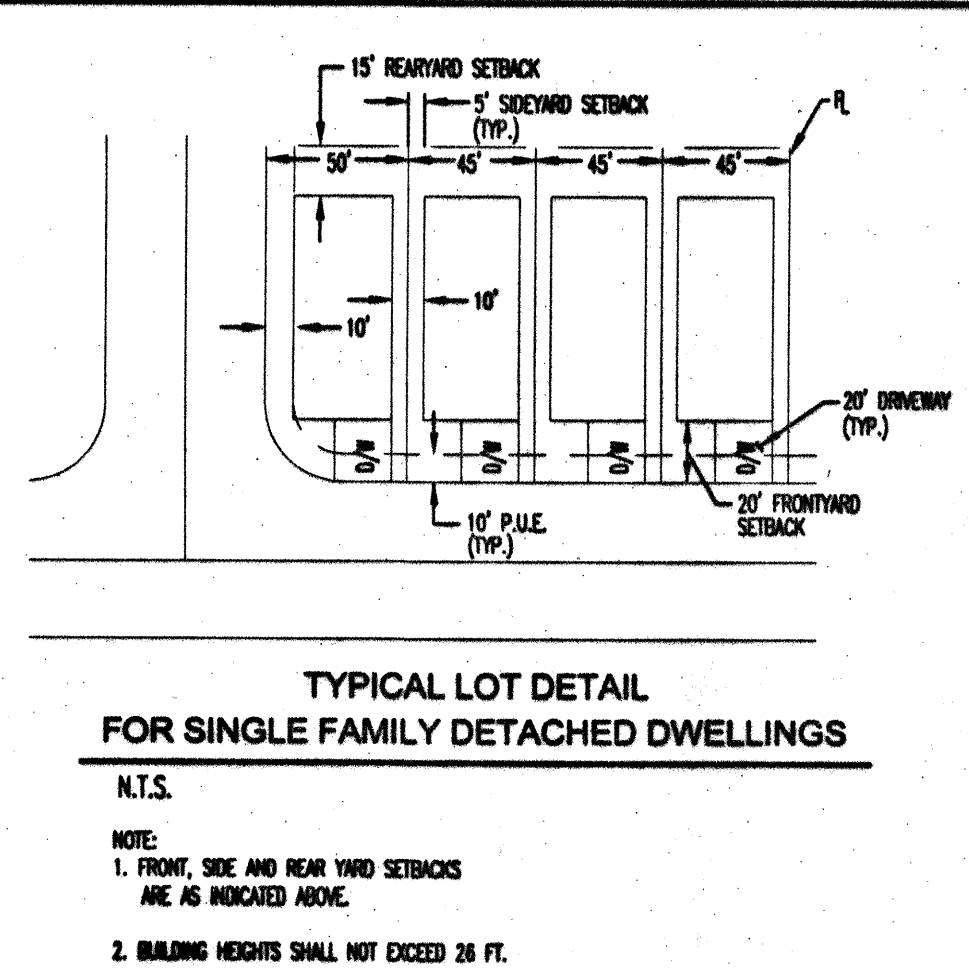
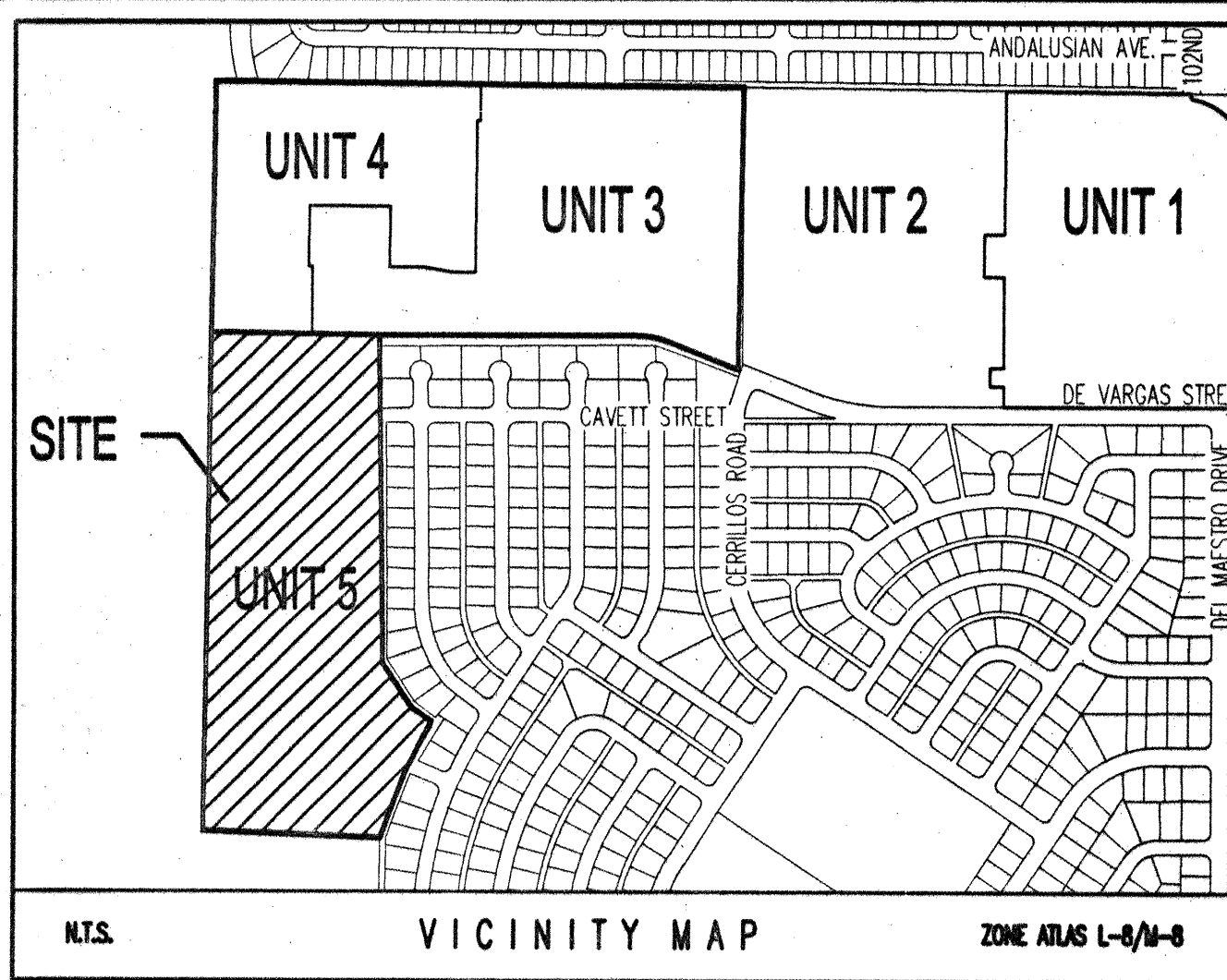
### CONSTRUCTION NOTES:

1. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS.
2. PRIOR TO CONSTRUCTION SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR CONSTRUCTION OBSERVER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
3. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.
4. DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE CONSTRUCTION OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERE TO SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.
5. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING THE EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.
6. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
7. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.
8. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E. BARRICADING, SURFACE DISTURBANCE).
9. THE CONTRACTOR SHALL BE RESPONSIBLE TO REPLACE AT HIS EXPENSE ANY AND ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.
10. ALL PERMANENT PAVEMENT MARKING AND TRAFFIC SIGNING SHALL BE FURNISHED BY THE CONTRACTOR PER PLAN.
11. THE CONTRACTOR SHALL FOLLOW THE CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN PROVIDED HEREIN. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON ADJACENT TO EXISTING STREETS.
12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.
14. ALL SAWCUT PAVEMENT SHALL HAVE A UNIFORM EDGE AND BE SPRAYED WITH TACK.
15. WHEN ABUTTING NEW CURB AND GUTTER TO EXISTING PAVEMENT, A 1' WIDE SECTION OF EXISTING PAVEMENT ADJACENT TO THE CURB AND GUTTER SHALL BE SAWCUT, REMOVED, AND REPLACED AS PER THE STANDARD SPECIFICATIONS.
16. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB & GUTTER, DRIVE PADS, WHEELCHAIR RAMPS, AND SIDEWALK DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER COA STANDARDS, AT HIS OWN EXPENSE.

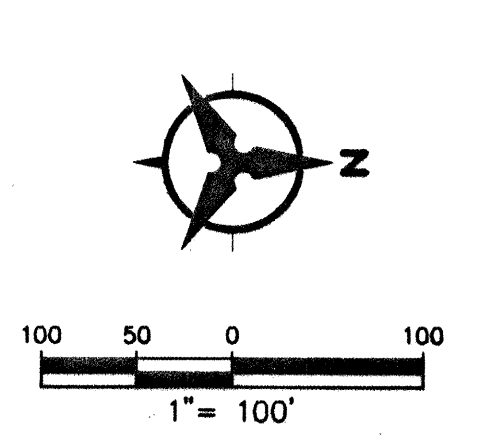
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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman		10-5-01		APPROVED FOR CONSTRUCTION	
		Transportation		9/11/01			
		Water/Wastewater		9/11/01			
		Hydrology		9/11/01			
Parks		Const. Mngmt.		10-5-01			
City Project No.		COA#671681		Sheet		1 of 5	

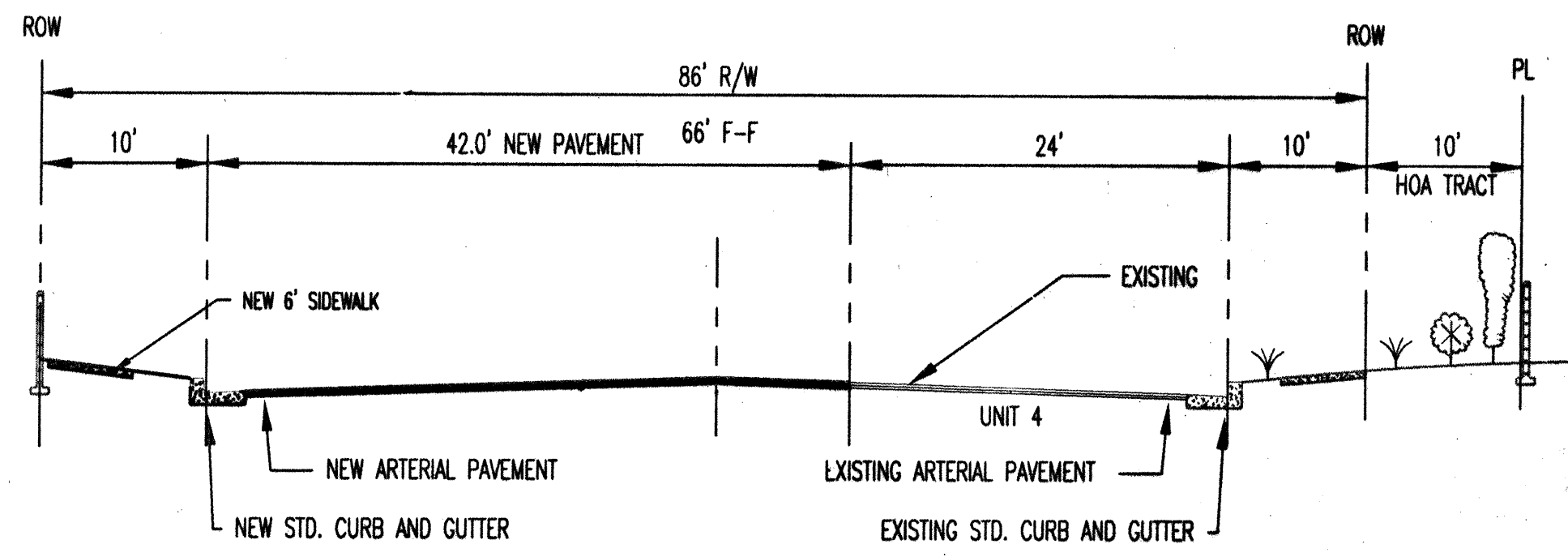
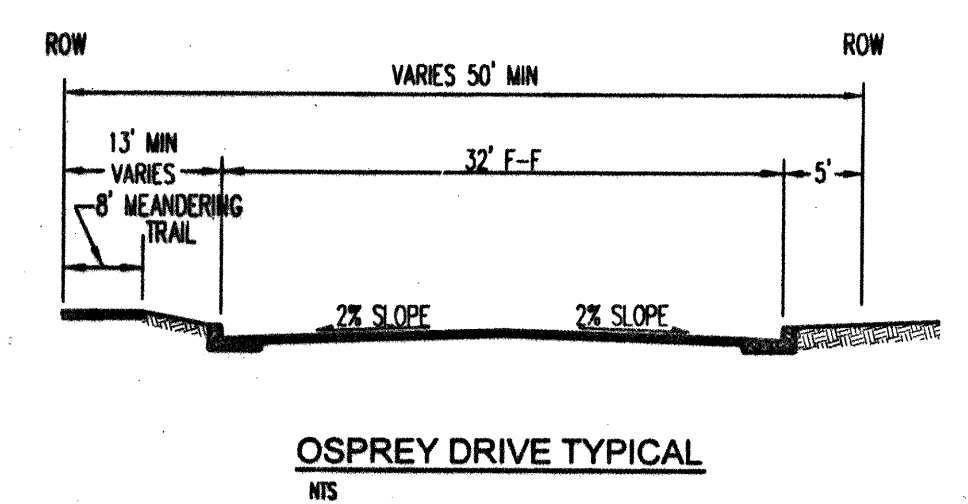
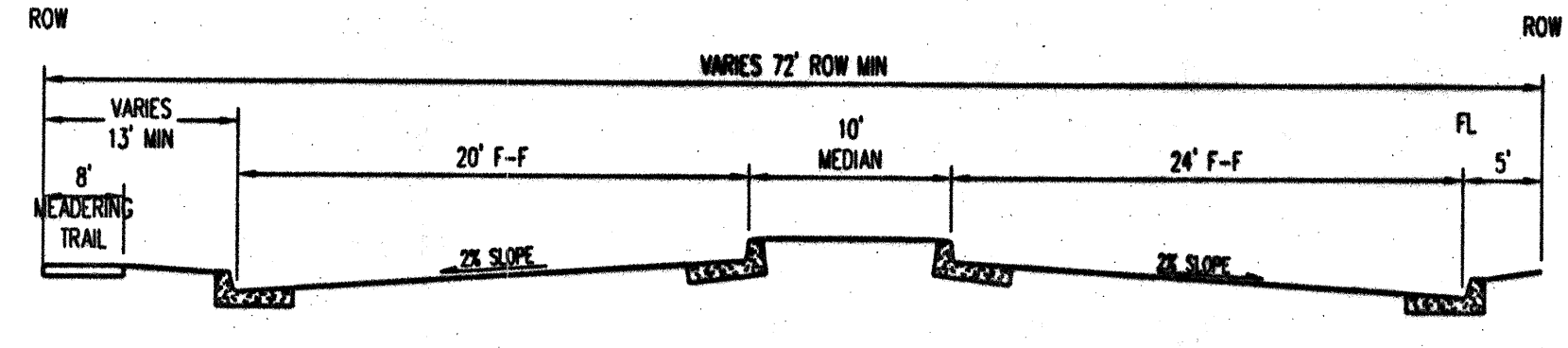




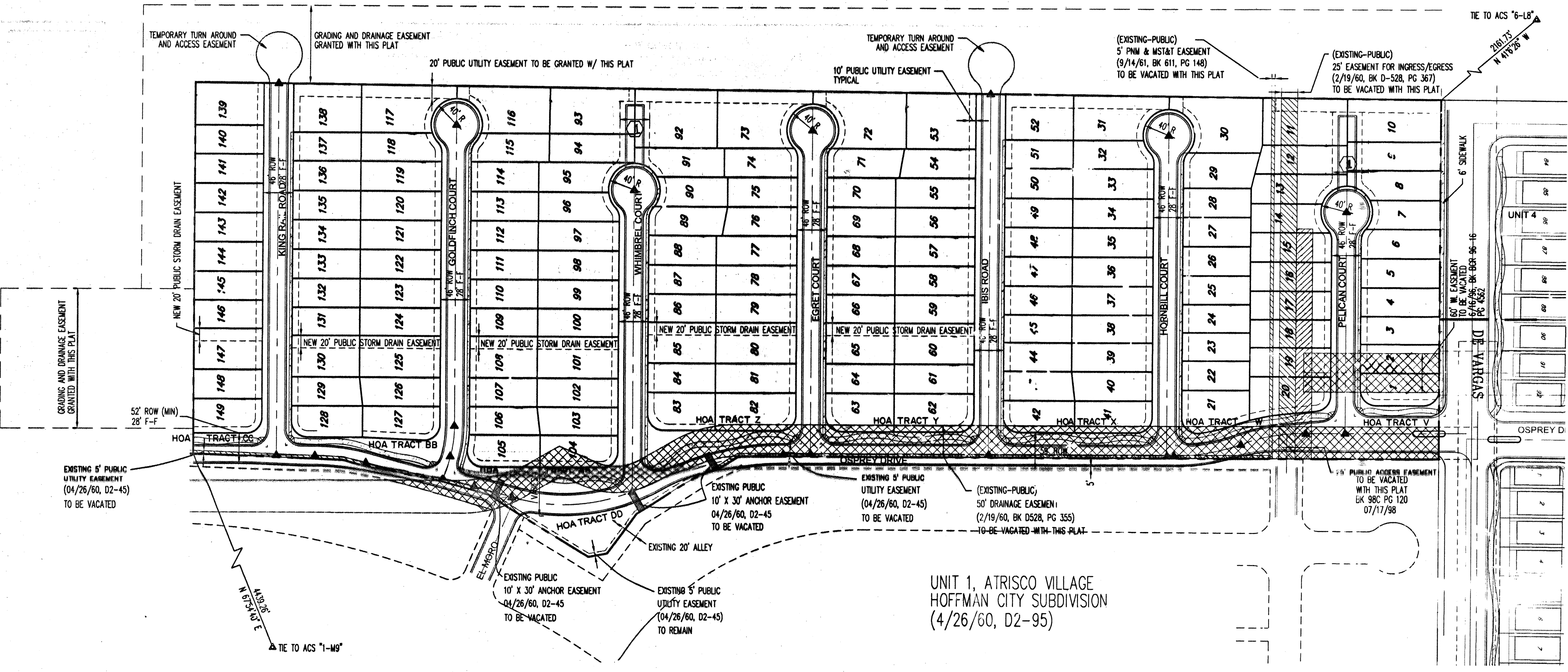
# 8/8/01 **AMENDED PRELIMINARY PLAT** FOR **TIMARRON WEST UNIT 5**



COMPRISED OF PORTIONS OF  
TRACT 2, LANDS OF GREVEY/LIBERMAN AND LUTHERAN CHURCH PROPERTY  
SITUATE WITHIN  
THE TOWN OF ATRISCO GRANT  
"PROJECTED" SECTION 32, T10N, R2E, N1/4P.M.  
BERNALILLO COUNTY, NEW MEXICO  
MAY, 1998



## TRACT 3 LANDS OF GREVEY / LIBERMAN



- SURVEY NOTES:**
1. ALL BOUNDARY CORNERS ARE MARKED AS SHOWN.
  2. ALL STREET CENTERLINE MONUMENTATION SHALL BE INSTALLED AT ALL CENTERLINE P.C.'S, P.T.'S, ANGLE POINTS AND STREET INTERSECTIONS AND SHOWN THUS (A) WILL BE MARKED BY A FOUR (4") ALUMINUM CAP STAMPED 'CITY OF ALBUQUERQUE CENTERLINE MONUMENTATION, DO NOT DISTURB, P.L.S. 5978'.
  3. THE SUBDIVISION BOUNDARY WILL BE 1/4 TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM AS SHOWN.
  4. BASIS OF BEARINGS WILL BE NEW MEXICO STATE PLANE GRID BEARINGS.
  5. DISTANCES SHALL BE GROUND DISTANCES.
  6. MANHOLES WILL BE OFFSET AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY, STREET INTERSECTIONS AND ALL OTHER APPROPRIATE POINTS TO ALLOW THE USE OF CENTERLINE MONUMENTATION.
- APPROVED FOR MONUMENTATION AND STREET NAMES

SITE DATA	
ZONE ATLAS NO.	L-8-2/M-8-2
FEMA MAP NO.	35001C0336 D
ZONING	31-1 PRD 9 DU/C
NO. OF EXISTING PARCELS	1.1
NO. OF LOTS CREATED	2
DENSITY	5.67 DU/AC
NO. OF H.O.A. TRACTS CREATED	9
AREA	26.27 ACRLS

- GENERAL NOTES:**
1. EXISTING ZONING: SU-1 PRD 9 DU/AC  
PROPOSED ZONING: NO CHANGE  
PROPOSED DEVELOPMENT: SINGLE FAMILY DETACHED RESIDENTIAL
  2. PROPOSED NET ACREAGE: 26.27 ACRES  
NUMBER OF LOTS: 149  
PROPOSED DENSITY: 5.67 D.U./ACRE
  3. TYPICAL LOT DIMENSIONS: 45'x105'  
MIN/MAX LOT DIMENSIONS: 45'x105' MIN., 97'x125' MAX.  
SMALLEST MINIMUM LOT AREA: 4725 SQ. FT.
  4. ALL STREETS, UTILITIES, AND STORM DRAIN IMPROVEMENTS ARE TO BE PUBLIC, AND TO BE DEDICATED TO THE CITY OF ALBUQUERQUE FOR MAINTENANCE, EXCEPT SUB STREETS, PELICAN COURT AND HORNBILL COURT ARE PRIVATE ACCESS STREETS TO BE MAINTAINED BY THE HOA
  5. LOT SETBACKS SHALL CONFORM TO R-1 ZONING REQUIREMENTS
  6. NO INDIVIDUAL LOTS SHALL BE ALLOWED DIRECT ACCESS TO DE VARGAS ROAD OR 114TH STREET.

**OWNER/DEVELOPER**  
CENTEX HOMES  
6700 JEFFERSON NE BUILDING B  
ALBUQUERQUE, NEW MEXICO 87109  
PHONE: (505) 761 9806

CENTEX  
DATE: 5/25/00

**Bohannon Huston**  
City of Albuquerque  
7500 JEFFERSON NE ALBUQUERQUE NEW MEXICO 87109  
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

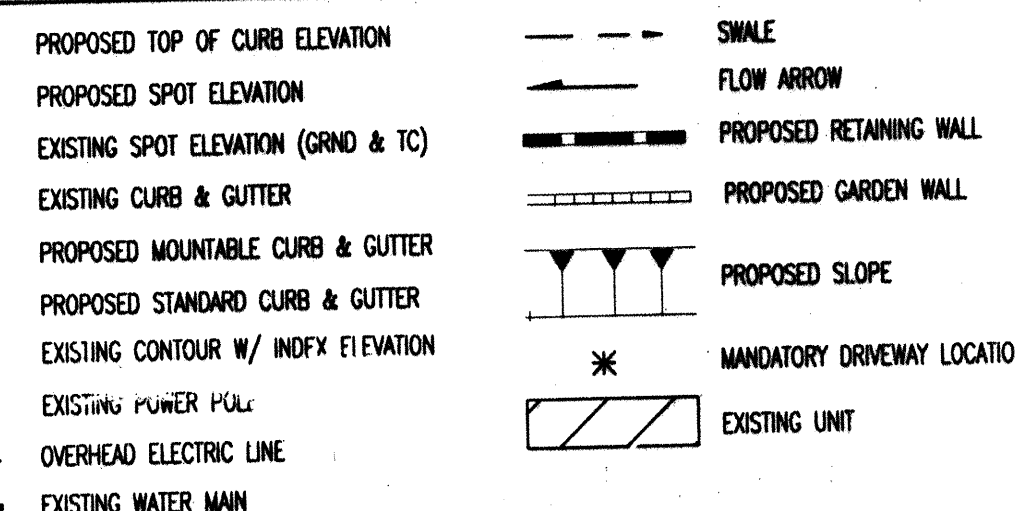
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26 67 10 81 02 03




BHI JOB NO. 99470

Copyright Bohannon Huston 2000  
Date: March 14, 2000

PRELIMINARY  
10/16



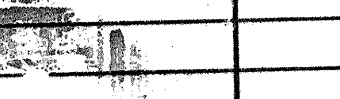



NOTE: ALL ELEVATIONS ARE IN THE 5000 RANGE

**Bohannon & Huston**  

**Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 8710**  
**ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS**

**CITY OF ALBUQUERQUE**  
**PUBLIC WORKS DEPARTMENT**  
**ENGINEERING DEVELOPMENT GROUP**

TIMARRON WEST UNIT 5  
 GRADING & EROSION CONTROL PLAN

Design Rev. w Committee	City Engineer Approval	Project Date w Update	Mo./Day/Yr.	Mo./Day/Yr.
				
City Project No.	Zone Map No.	Sheet	Of	
671681	M-8	2		3

AS-BUILT INFORMATION	
CONTRACTOR FRANKLINS	DATE
WORK STARTED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD OBSERVATION BY	DATE
REMARKS	
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

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BENCH MARKS	
ACS Alum. cap stamped "6-18, 1985"	
Geographic Position (NAD 1927)	
N.M. State Plane Coordinates (Central Zone)	
X= 346,973.32 Y= 1,477,645.64	
Ground-to-BM Factor= 0.9996639	
ad= -0017.37"	
S.D. 1929 Elevation= 5393.906'	

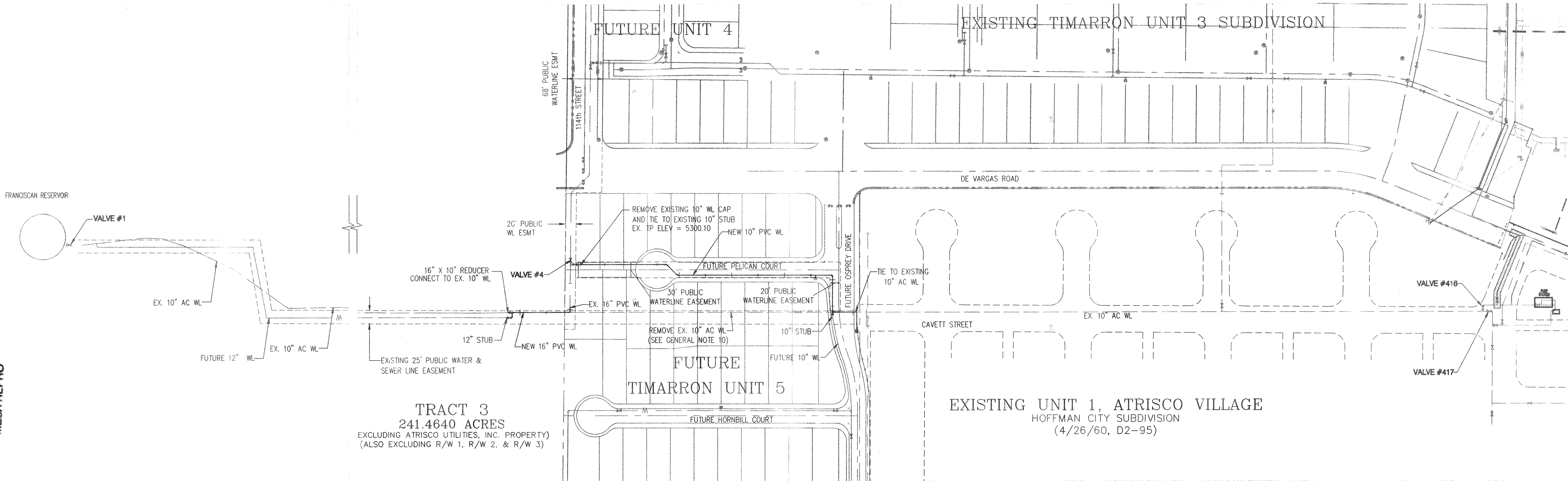
[illegible]

1010	Grade Dimensions, Proposed Road	10.15
No.	Date	By
REMARKS		
REVISIONS		
DESIGN		
Designed By		DATE:

Designed By: \_\_\_\_\_  
Drawn By: \_\_\_\_\_



SCANNED BY  
MESA REPRO



#### GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL S&S & SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESES)
- GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- MANHOLE & CATCH BASIN INLET ELEVATIONS, FIRE HYDRANT & FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT GRADES.
- ALL WATERLINE APPURTENANCES SHALL USE RESTRAINED JOINTS, REFER TO TABLES LISTED THIS SHEET.
- ALL EXISTING WATERLINE VALVES, TO BE REMOVED, SHALL BE RETURNED TO THE COA WATER RESOURCES DIVISION.

#### LEGEND

	PROPOSED WATERLINE
	WL AIR RELEASE VALVE
	WATER LINE GATE VALVE
	WATER LINE TEE
	PROPOSED FIRE HYDRANT
	WATER LINE CAP
	WATER LINE REDUCER
	EXISTING FIRE HYDRANT
	EXISTING WATER VALVE
	EXISTING WATERLINE

#### WATER SHUT-OFF PLAN

FOR CONNECTION VALVE CLOSED  
TO EX 10" IN UNIT 5 EASEMENT #1, #416, #417  
TO EX 16" ON 114TH ST. #4

CONTRACTOR WILL BE RESPONSIBLE FOR FLUSHING, DISINFECTING, AND TESTING THE LINES AS REQUIRED BY CITY OF ALBUQUERQUE (COA).

#### WATER SHUT-OFF REQUIREMENTS:

CONTRACTOR WILL BE RESPONSIBLE FOR THE TIMING AND COORDINATION OF THE WATER SHUT-OFF REQUIREMENTS IN CONJUNCTION WITH THE COMPLETION OF CONNECTIONS. AT LEAST FIVE (5) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CONTACT COA (857-8200) TO INITIATE IMPLEMENTATION OF THIS WATER SHUT-OFF PLAN. CONTRACTOR SHALL NOT OPERATE VALVES ON THE PROJECT.

#### RESTRAINED JOINT TABLES

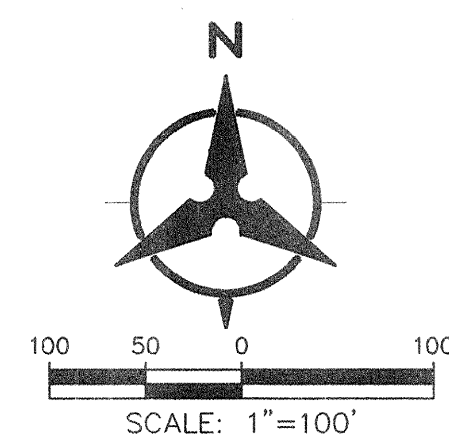
MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS		
	16"	12"	10"
16"x16"x12" TEE	8'	45'	
10"x10"x10" TEE	108'	8'	
16"x10" REDUCER	30'		
VALVE/DEAD END	134'	104'	88'
11.25" VERTICAL BEND (UPPER)	17'	11'	
11.25" VERTICAL BEND (LOWER)	6'	4'	
90° BEND	61'	48'	41'
45° BEND			17'

#### NOTE:

- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS, UNLESS SPECIFIED DIFFERENTLY IN THE PLANS. ALL PIPE JOINTS WITHIN 20 LF OF A.M.J. SHALL BE RESTRAINED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE, (SEE NOTE 5 ABOVE)
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
- ALL CAPS SHALL UTILIZE PCC BLOCKING

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15  
26 6716.81 0403

*[Signature]*



**Bohannon & Huston**

**Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109**

ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS



**CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT**

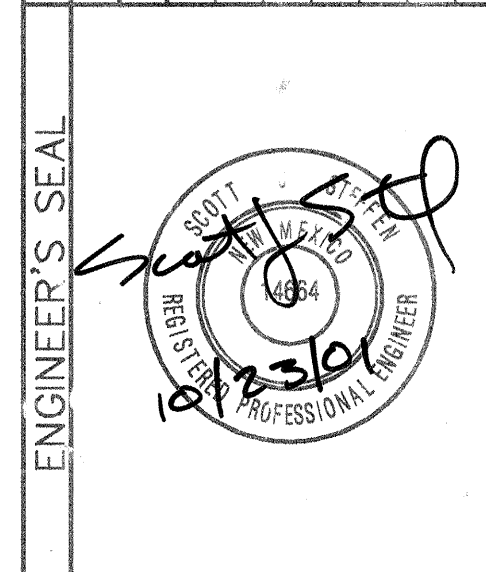
**FRANCISCAN RESERVOIR  
10" WATERLINE RELOCATION  
OVERALL UTILITY PLAN**

Design Review Committee	Mo./Day/Yr.	Mo./Day/Yr.
City Project No. <b>COA #671681</b>	Zone Map No. <b>L8-M8</b>	Sheet <b>4</b> Of <b>5</b>

AS-BUILT INFORMATION	
CONTRACTOR	FRANKLIN
DATE	2/02
STAMPED BY	CSC
DATE	
ACCEPTANCE BY	CSC
DATE	
FIELD CHECK BY	CSC
DATE	
REVISIONS	
CORRECTED BY	CSC
DATE	
MICRO-FILM INFORMATION	
RECORDED BY	
DATE	
NO. COA Inspector	ALLEN OSTRANDER

BENCH MARKS	
NO.	DATE
1	ACS 1 3/4" Alum. disk stamped "ACS BM, 14-M8" LOCATED AT THE ESE QUADRANT OF DE VARGAS RD. AND CERRILLOS ROAD EXPOSED TO TOP OF CONCRETE CURB. Elevation= 5233.928 (NWGD 1929)

SURVEY INFORMATION	
NO.	DATE
1	



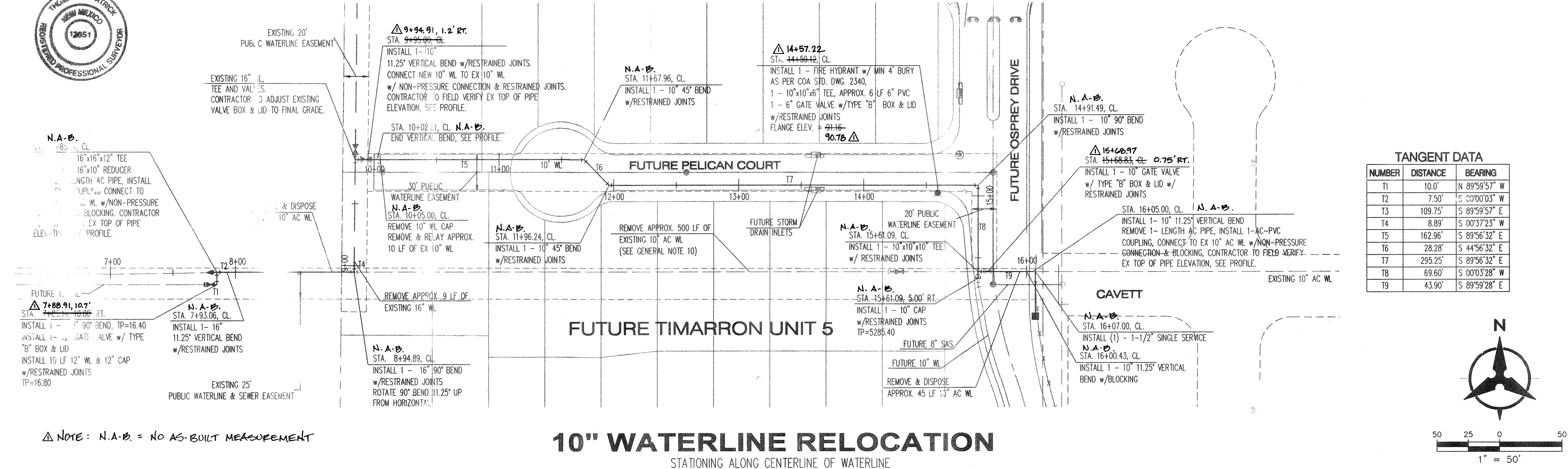
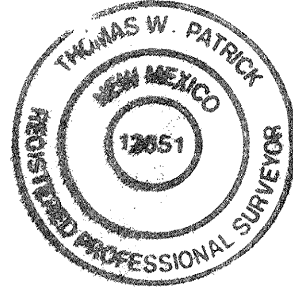
ENGINEER'S SEAL	
REVISIONS	By
DESIGN	
DATE: 10/23/01	Designed By: SJS
DATE: 10/23/01	Drawn By: LSM
DATE: 10/23/01	Checked By: SJS



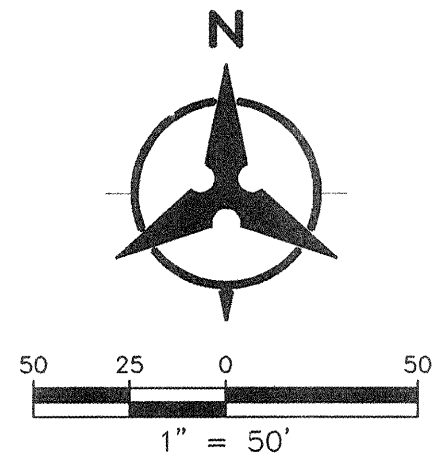
# **SURVEYOR'S CERTIFICATION**

I, Thomas W. Patrick, a duly qualified Registered Professional Land Surveyor under the Laws of the State of New Mexico, do hereby certify that the "as-built" information shown on these drawings was obtained from field construction and "as-built" surveys performed by me, or under my supervision, that the "as-built" information shown on these drawings was added by me, or under my supervision and that this "as-built" information is true and correct to the best of my knowledge and belief. Community Sciences Corporation is not responsible for any of the design concepts, calculations, engineering and/or intent of the record drawings.

Thomas W. Patrick, NMPS 12651  
Date 2-25-2002



SCANNED BY  
MESA REPRO



## **GENERAL NOTES**

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SACS & SO SLOPES ARE CALCULATED FROM DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESES)
- GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF STATIONED CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- MH RIMS & CATCH BASIN INLET ELEVATIONS, FIRE HYDRANT & FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT GRADES.
- ALL WATERLINE APPURTENANCES SHALL USE RESTRAINED JOINTS, REFER TO TABLES LISTED PER SHEET 4.
- ALL EXISTING WATERLINE VALVES, TO BE REMOVED, SHALL BE RETURNED TO THE COA WATER RESOURCES DIVISION.

<b>AS-BUILT INFORMATION</b> CONTRACTOR: <b>Bohannon &amp; Huston</b> DATE: <b>2/02</b>		<b>BENCH MARKS</b> AC 1.34" Alum disk stamping ACS Bm 14-in LOCATED AT THE ESE QUADRANT OF DE VARGAS RD. AND CERRILLOS ROAD, LOOKED TO TOP OF CONCRETE CURB DATE: <b>2/25/02</b> BY: <b>T.W. PATRICK</b>	
<b>ENGINEER'S SEAL</b> 		<b>REVISIONS</b> No. <b>1</b> Date <b>2/25/02</b> By <b>T.W. PATRICK</b>	
City Project No. <b>Coa #671681</b>		Zone Map No. <b>L8, M8</b>	
City Engineer <b>APPROVE</b> NOV 21 2001		City Engineer <b>APPROVE</b> NOV 21 2001	