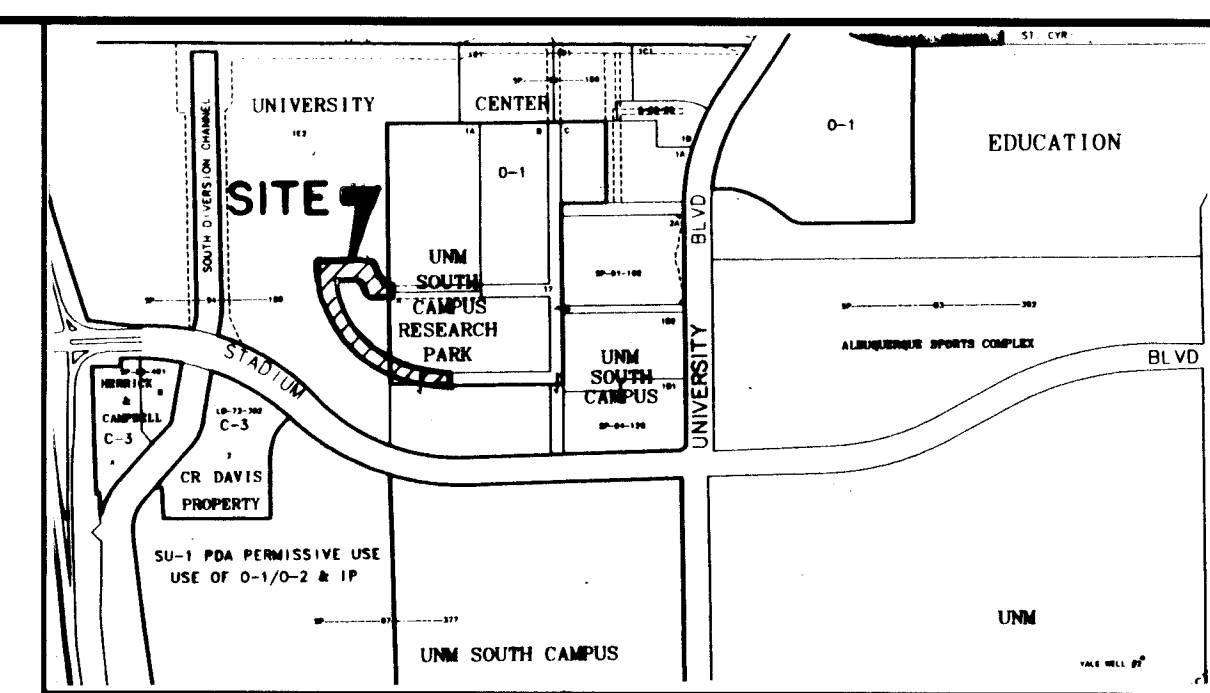


CONSTRUCTION PLANS
FOR
U.N.M. RESEARCH CENTER
WATERLINE AT OPTOELECTRONICS BUILDING
ALBUQUERQUE, NEW MEXICO



VICINITY MAP
NOT TO SCALE
L-15-Z

- NOTICE TO CONTRACTORS
- 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 AND SHALL INCLUDE UPDATE No. 6.
 - TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) FOR LOCATION OF EXISTING UTILITIES.
 - 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 OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
 - THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT TO CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONST. COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 - ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED IN KIND BY CONTRACTOR TO LOCATION AND IN KIND AS EXISTING OR AS INDICATED BY THIS PLAN SET.
 - 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 COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
 - ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.

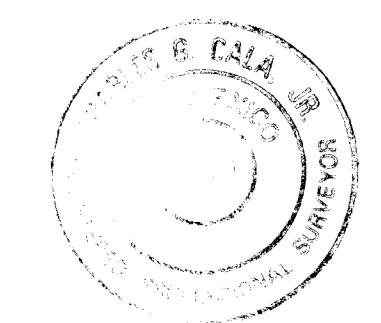
- THE FOLLOWING NOTES ALSO APPLY WHEN CHECKED
- ☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
 - ☐ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
 - ☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.
 - ☐ SIDEWALKS AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.
 - ☐ IF CURB IS DEPRESSED FOR A DRIVEPAD, THE DRIVEPAD SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE 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.

INDEX	
SHEET NUMBER	DESCRIPTION
1	TITLE SHEET
2	WATERLINE PLAN & PROFILE

RECORD DRAWING

RECORD DRAWING

I, Charles G. Cala, Jr., Registered Professional Surveyor in the State of New Mexico, do hereby certify that this "as-built" information was obtained by me or under my supervision and represents the "as-built" conditions of this project, and is true and correct to the best of my knowledge and belief. All vertical and horizontal dimensions should be field verified prior to use on future projects.



Charles G. Cala, Jr. 1-2-97
Charles G. Cala, Jr., Date
NMPS No. 11184

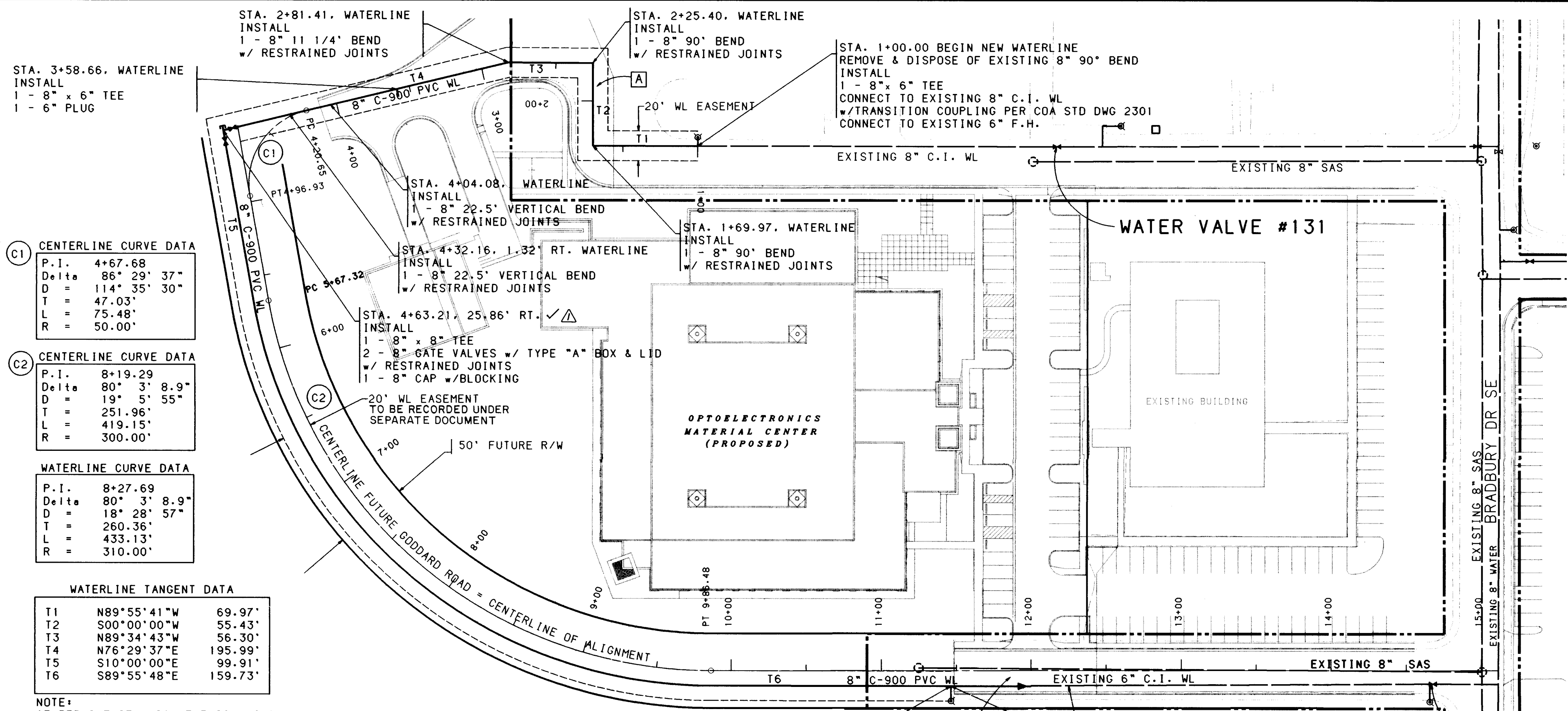
APPROVAL OF AS BUILT DRAWINGS
CHIEF CONSTRUCTION ENGINEER
James R. Topmiller
DATE 1-9-97

BOHANNAN-HUSTON INC.
ENGINEERS • PLANNERS • PHOTOGRAMMETRISTS • SURVEYORS • LANDSCAPE ARCHITECTS
ALBUQUERQUE LAS CRUCES SANTA FE

BH1 JOB NO. 9611982440

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

REV.	1,2	SHEETS	RECORD DRAWINGS	DATE	1-1997	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & APPROVAL			APPROVALS	ENGINEER	DATE	APPROVED FOR CONSTRUCTION					
			DRC Chairman	<i>Billy J. Gooding</i>	3-12-96						
			Transportation	<i>N.W. Kane</i>	2-20-96						
			Water/Wastewater	<i>N.W. Kane</i>	2-14-96						
			Hydrology	<i>N.W. Kane</i>	2-14-96						
			Parks	<i>N.W. Kane</i>	2-14-96						
			Constr. Mngmt.								
			CITY PROJECT NO.			5362.90					
			SHEET			1 OF 2					



C1 CENTERLINE CURVE DATA

P.I.	4+67.68
Delta	86° 29' 37"
D	114° 35' 30"
T	47.03'
L	75.48'
R	50.00'

C2 CENTERLINE CURVE DATA

P.I.	8+19.29
Delta	80° 3' 8.9"
D	19° 5' 55"
T	251.96'
L	419.15'
R	300.00'

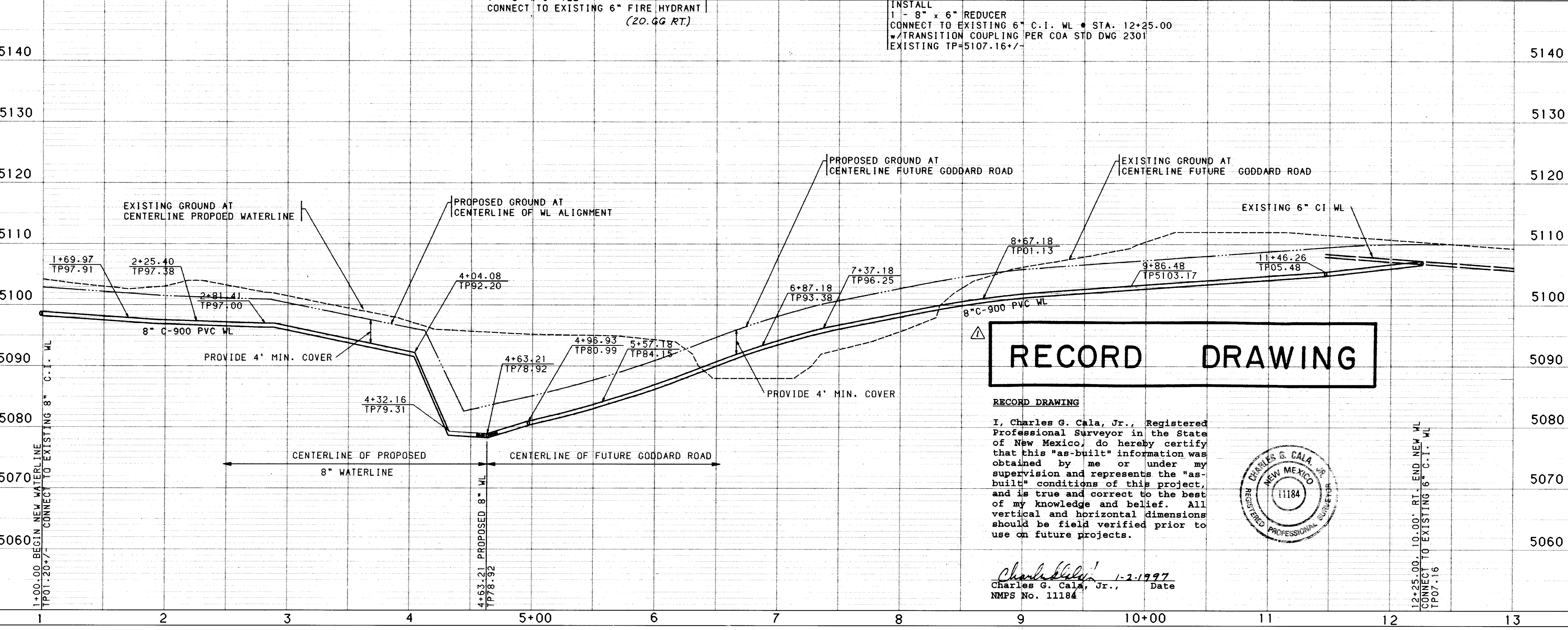
WATERLINE CURVE DATA

P.I.	8+27.69
Delta	80° 3' 8.9"
D	18° 28' 57"
T	260.36'
L	433.13'
R	310.00'

WATERLINE TANGENT DATA

T1	N89°55'41"W	69.97'
T2	S00°00'00"W	55.43'
T3	N89°34'43"W	56.30'
T4	N76°29'37"E	195.99'
T5	S10°00'00"E	99.91'
T6	S89°55'48"E	159.73'

NOTE: CENTERLINE OF ALIGNMENT IS ALONG NEW WATERLINE FROM 1+00.00 TO PC 4+20.65. FROM 4+96.93 TO END OF NEW WATERLINE, ALIGNMENT IS ALONG CENTERLINE OF GODDARD FUTURE ROAD.



NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURB RETURN RADII SHALL BE 25' TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
4. GRADE ELEVATIONS, WHERE NOTED, ARE FOR TOP OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
5. WATERLINE SHALL NOT LIE BENEATH ANY PONDING AREAS.
6. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
7. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
8. CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
9. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
10. ANY DAMAGE TO THE EXISTING FACILITIES (CURB AND GUTTER, PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS EXPENSE, PER C.O.A. STANDARD SECIFICATIONS.
11. RECORD SURVEYOR SHALL PROVIDE AS-BUILT ELEVATIONS FOR TOP OF PIPE AND TOP OF GROUND AT EACH TOP OF PIPE CALLOUT ON THIS PLAN.

ENGINEER'S SEAL

NO. DATE BY

REMARKS (AS-BUILT & CERT.)

DESIGNED BY BS DATE 2/96
DRAWN BY OR DATE 2/96
CHECKED BY JRT DATE 2/96

REVISIONS

DATE 2/96

DATE 2/96

DATE 2/96

RESTRAINED JOINT TABLE

MECHANICAL JOINTS	LENGTH OF RESTRAINED JOINTS FROM EACH SIDE OF MJ LISTED (6") (8")
11.25" H BEND	2' 3'
22.50" H BEND	4' 5'
45" H BEND	8' 11"
90" H BEND	20' 26"
GATE VALVE	55' 72"
22.5" V BEND	14'
CAP	55' 72"

NOTE:
1. ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
2. THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF A MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
3. THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE ABOVE. (SEE NOTE 2 ABOVE)
4. THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANTS JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.

1 2 3 4 5 6 7 8 9 10 11 12
26-5362-910 0297

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

UNM RESEARCH CENTER
WATERLINE PLAN & PROFILE
OPTOELECTRONICS MATERIAL CENTER

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

MO/DAY/YR. MO/DAY/YR.

CITY PROJECT NO. 5362.90

ZONE MAP NO. L-15

SHEET 2 OF 2

SCANNED BY LASON

BHL JOB NO. 96119824

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DATE: Feb. 1996