

CITY OF ALBUQUERQUE, NEW MEXICO

VILLAGE OF LOS RANCHOS de ALBUQUERQUE

CONSTRUCTION PLANS FOR ALMA ENCANTADA SUBDIVISION

GENERAL NOTES:

- A COPY OF THE NMAPWA STANDARD SPECIFICATIONS, CONTRACT DOCUMENTS AND PROJECT PLANS SHALL BE KEPT AT THE JOB SITE BY THE CONTRACTOR AT ALL TIMES.
- THE CONTRACTOR AGREES THAT HE/SHE SHALL ASSUME THE SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE OWNER, ENGINEER AND VILLAGE HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPT FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER.
- THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITY PIPES AND/OR STRUCTURES SHOWN ON THESE DRAWINGS HAVE BEEN OBTAINED BY A RESEARCH OF THE AVAILABLE RECORDS. RESPONSIBILITY FOR THE ACCURACY OF THE DEPICTED LOCATION, EXISTING OR NON-EXISTING UTILITY LINES IS THAT OF THE CONTRACTOR. THE CONTRACTOR SHALL TAKE DUE PRECAUTIONARY MEASURES TO PROTECT UTILITY LINES SHOWN AND ALL OTHER LINES NOT OF RECORD OR NOT SHOWN BY VERIFICATION OF LINE LOCATION IN THE FIELD PRIOR TO THE INSTIGATION OF THE ACTUAL PORTION OF WORK ATTRIBUTED TO THEIR LOCATION.
- CHANGES SHALL NOT BE MADE TO THESE PLANS WITHOUT THE WRITTEN APPROVAL OF THE OWNER AND/OR THE ENGINEER. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION METHODS, TECHNIQUES OR FOR THE PROSECUTION OF THE WORK AS SHOWN ON THESE PLANS. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACTS AND/OR OMISSIONS OF THE CONTRACTOR, SUBCONTRACTOR OR ANY OTHER PERSONS PERFORMANCE AND/OR FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- QUANTITIES SHOWN ON THESE PLANS ARE ESTIMATED AND SHOULD BE VERIFIED BY THE CONTRACTOR PRIOR TO SUBMITTING BID PROPOSALS.
- SPECIFICATIONS FOR THE IMPROVEMENTS AS SHOWN ON THESE PLANS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1987 EDITION, AS PREPARED BY THE NEW MEXICO CHAPTER, (A.P.W.A.) AMERICAN PUBLIC WORKS ASSOCIATION.
- CONTRACTOR SHALL NOTIFY VILLAGE OF LOS RANCHOS PUBLIC WORKS DEPARTMENT 48 HOURS PRIOR TO ANY LANE OR ROADWAY CLOSURES.
- CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL.
- THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY OR PRIVATE ROADWAY EASEMENTS SO SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET OR INTO ANY PUBLIC DRAINAGE FACILITY.
- PNM WILL PROVIDE AT NO COST TO THE CITY OR THE CONTRACTOR THE REQUIRED PERSONNEL FOR INSPECTION OR OBSERVATION DEEMED NECESSARY BY PNM WHILE THE CONTRACTOR IS EXPOSING PNM'S CABLES. HOWEVER, THE CONTRACTOR SHALL BE CHARGED THE TOTAL COST ASSOCIATED WITH REPAIRS TO ANY DAMAGED CABLES OR FOR ANY COST ASSOCIATED WITH SUPPORTING OR RELOCATING THE POLES AND CABLES DURING CONSTRUCTION.
- WARNING--EXISTING UTILITY LINE LOCATIONS ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE AREA SHOWN. THE LOCATION OF ANY SUCH EXISTING LINES IS BASED UPON INFORMATION PROVIDED BY THE UTILITY COMPANY, THE OWNER, OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UNDERGROUND UTILITY LINES, MAKES NOR REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OR THE LOCATION OF ANY UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PRESERVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY, AND PERSEVE ANY AND ALL EXISTING UTILITIES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS PERTAINING TO THE LOCATION OF THESE LINESS AND FACILITIES, IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE ACCOMPLISHED IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART P.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTORS SHALL PROMPTLY REMOVE ANY AND ALL GRAFFITI FROM EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.

NOTE: IF CULTURAL RESOURCES, SUCH AS HISTORIC OR PREHISTORIC ARTIFACTS, OR HUMAN REMAINS ARE DISCOVERED DURING EXCAVATION OR CONSTRUCTION, WORK SHALL CEASE, AND THE CONSTRUCTION ENGINEER SHALL NOTIFY THE CITY OF ALBUQUERQUE, NEW MEXICO, AND THE STATE HISTORIC PRESERVATION OFFICER (SHPO) AT 827-6320. WORK MAY PROCEED AFTER COORDINATION WITH SHPO.

ALL EXCAVATION, TRENCHING AND SHORING ACTIVITY MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA, CFR 29 1926.650 SUBPART P.

INDEX OF SHEETS:

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I, Wallace L. Bingham P.E. of the firm of BINGHAM ENGINEERING, a Professional Engineer, registered by 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 a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications 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 a NM Registered Surveyor.

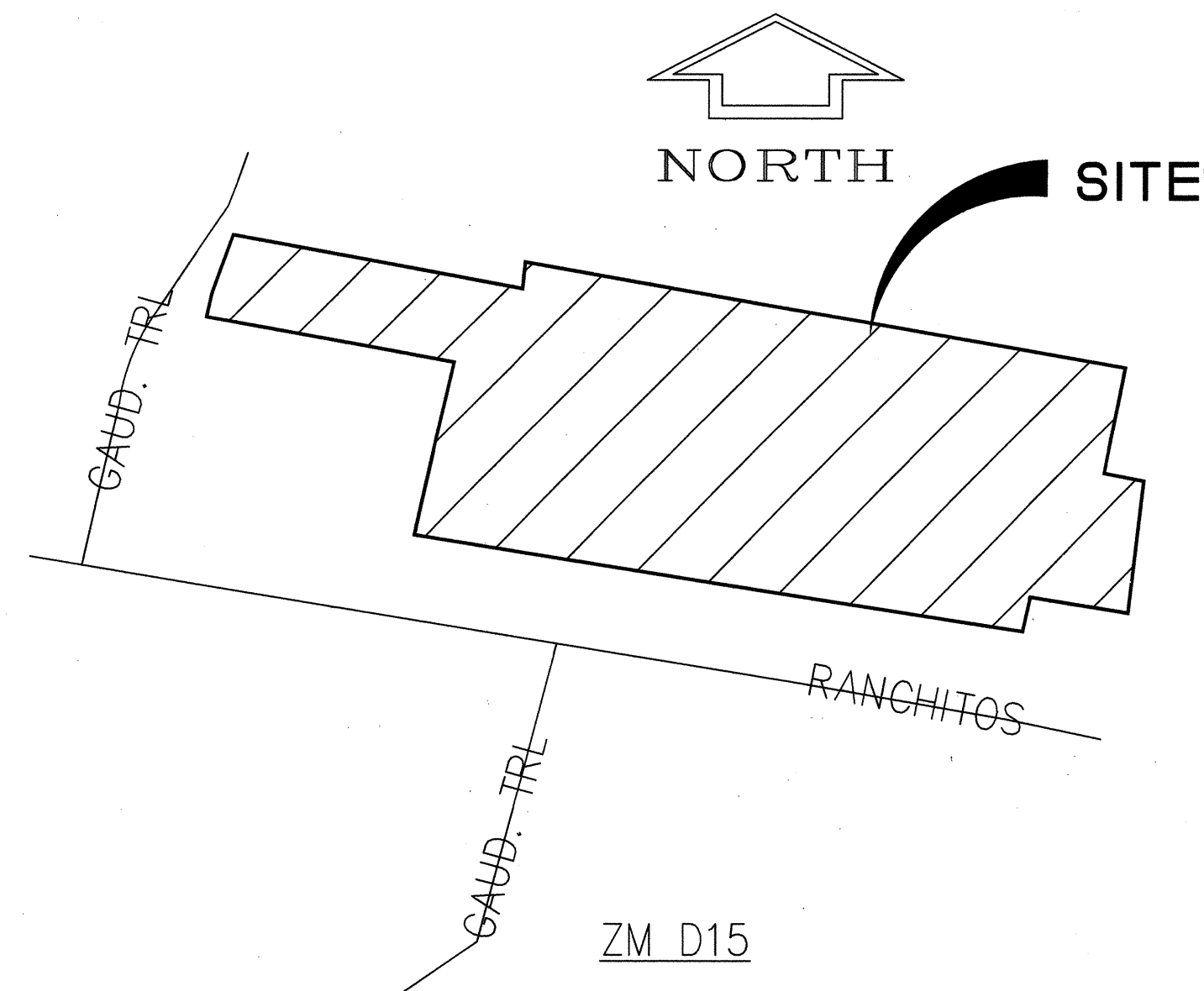
APPROVED: VILLAGE OF LOS RANCHOS de ALBUQUERQUE

DATE

APPROVED: VILLAGE OF LOS RANCHOS de ALBUQUERQUE FIRE DEPT. DATE

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTION
CITY CONSTRUCTION ENGINEER
DATE: 07/19/09

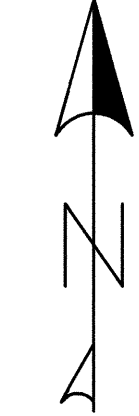
BINGHAM ENGINEERING
ALBUQUERQUE, NEW MEXICO
505 797 4699



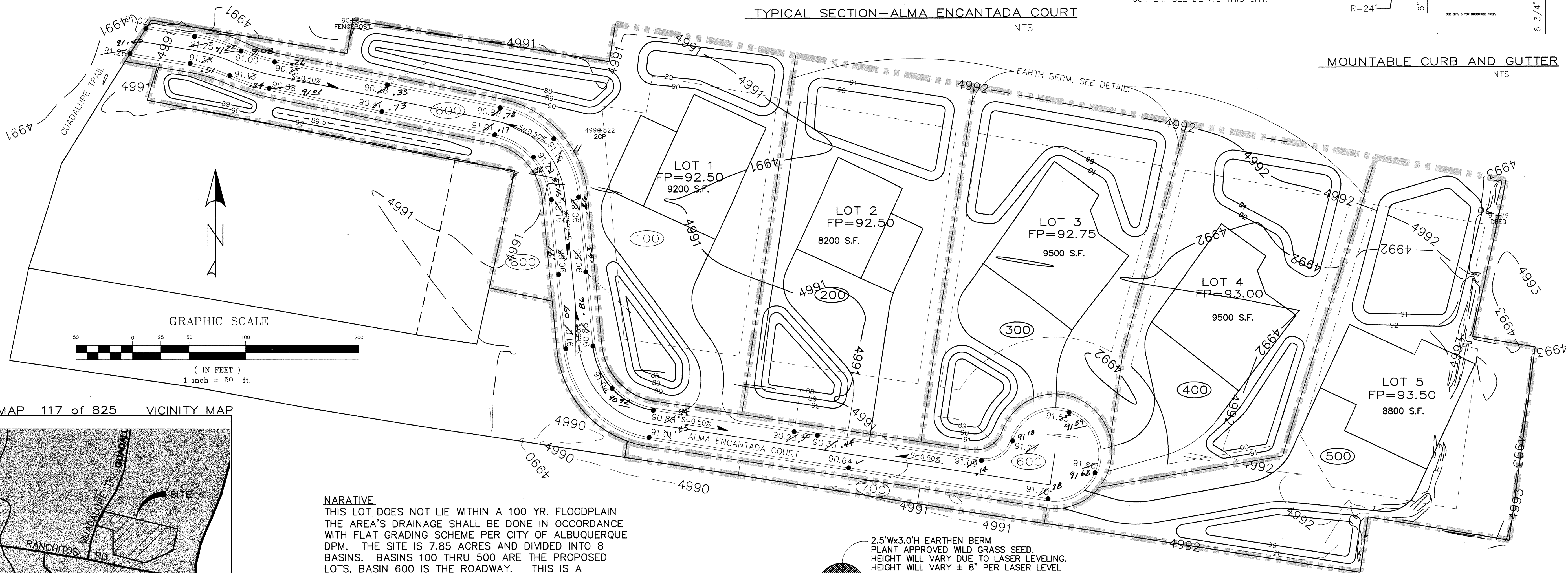
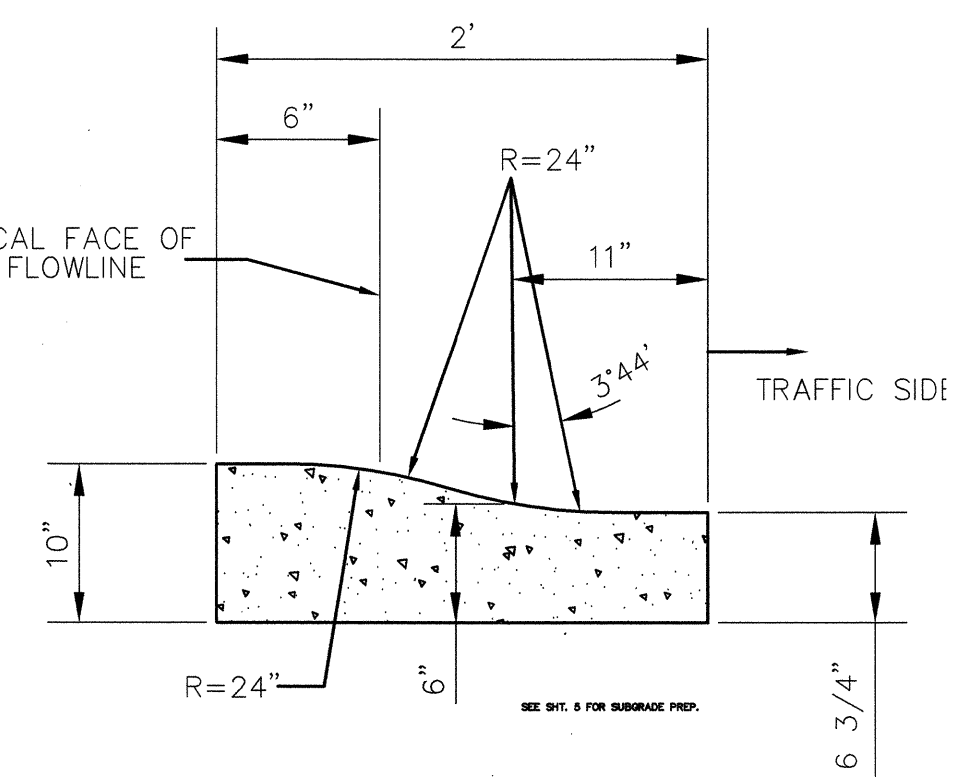
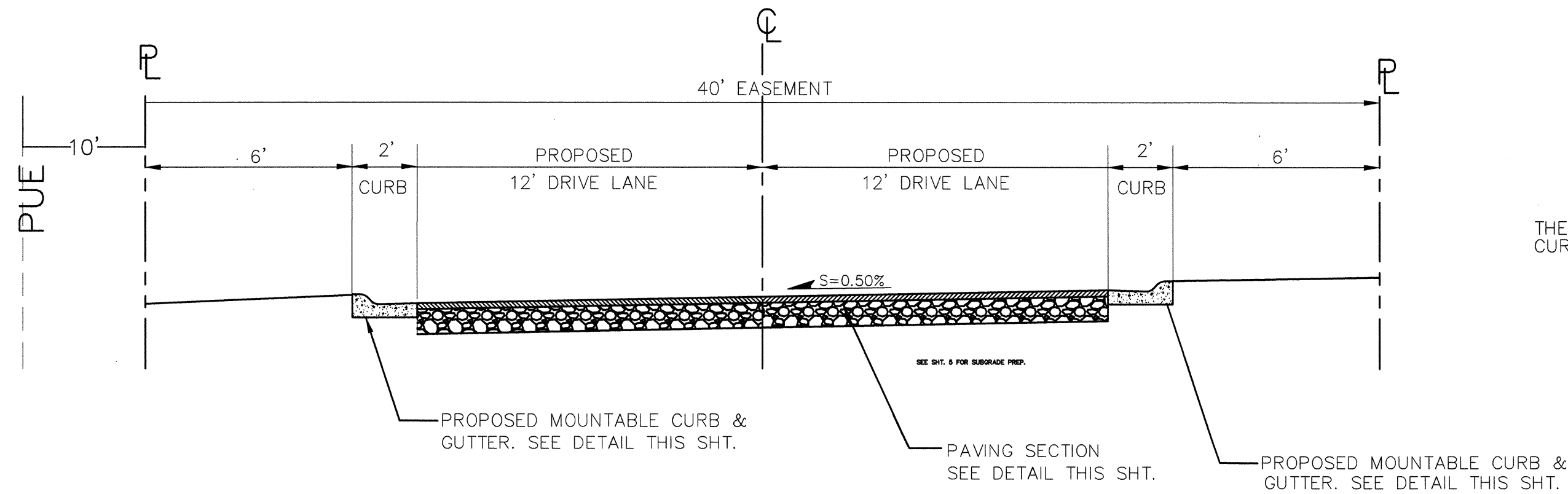
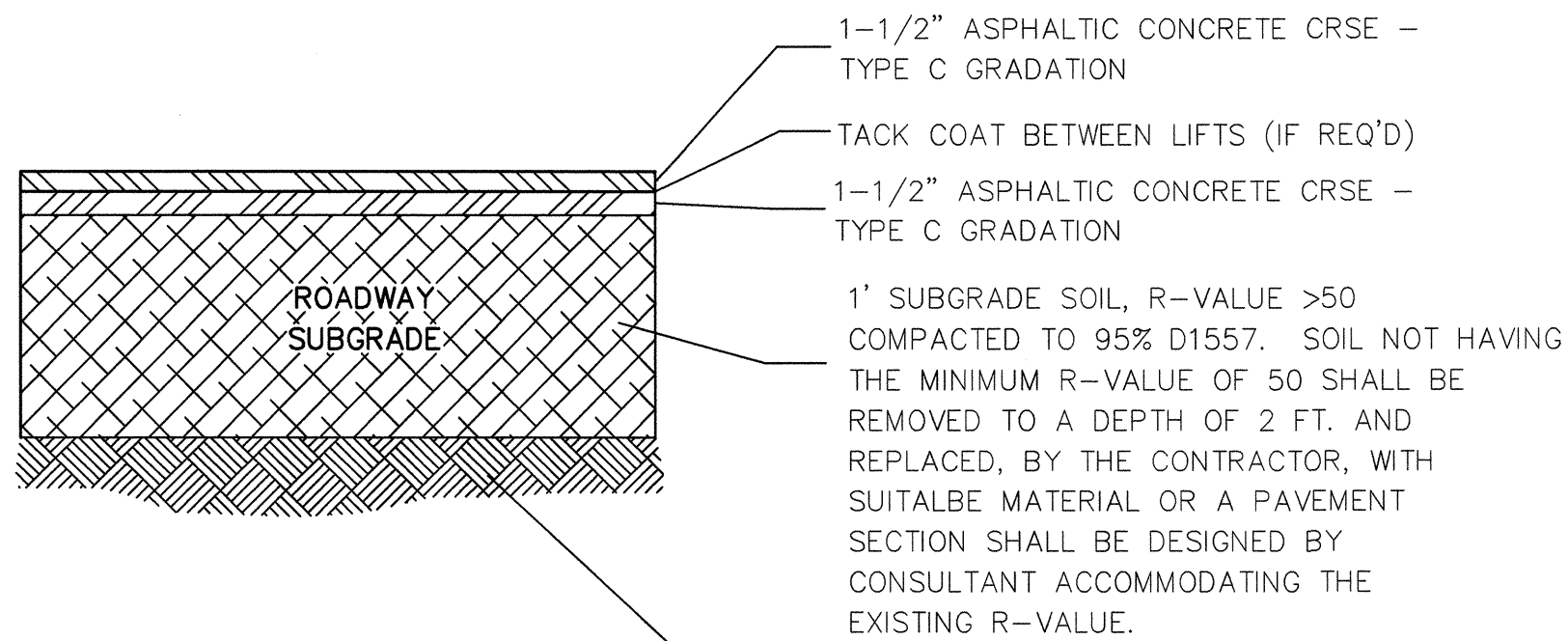
NOTICE TO CONTRACTOR

- EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN THE CITY RIGHT-OF-WAY.
- ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREIN, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, UPDATE 7.
- TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE-CALL SYSTEM (280 1990) LOCATION MARKING FOR ALL UTILITIES.
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE EXISTENCE AND LOCATION OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY SO THE CONFLICT CAN BE MITIGATED WITH MINIMUM DELAY.
- FIVE (5) WORKING DAYS PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL SUBMIT A CONSTRUCTION SCHEDULE TO THE ENGINEER.
- AT LEAST TWO DAYS BEFORE CONSTRUCTION BEGINS, THE CONTRACTOR SHALL CONTACT THE VILLAGE OF LOS RANCHOS REGARDING A BARRICADING PERMIT. HE SHALL NOTIFY THE VILLAGE OF LOS RANCHOS PRIOR TO OCCUPYING AN INTERSECTION, REFER TO SECTION 19 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- ANY WORK AFFECTING ARTERIAL STREETS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
- ANY STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC, RECTORIZED PAVEMENT MARKING BY CONTRACTOR TO WE SAME LOCATION AS WAS EXISTING. OR AS INDICATED BY THIS PLAN SET.
- CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO BEGINNING OF WORK ON THE SITE SO THAT THE CITY SURVEY MAY TAKE NECESSARY MEASURES TO PRESERVE ANY CITY SURVEY MONUMENTATION THAT MAY BE AFFECTED. THE CONTRACTOR SHALL NOT DISTURB ANY PERMANENT SURVEY MONUMENT 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, THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE, UNLESS OTHERWISE SPECIFIED. SECTION 4.4 OF "GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
- THE CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE, BERNALILLO CO. WATER UTILITY FOR THE PREPARATION OF "AS-CONSTRUCTED" DRAWING'S. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
- THE CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. THE CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM WALLS, EQUIPMENT, ETC. WHETHER PERMANENT OR TEMPORARY.
- ALL UTILITY WORK SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE SPECIFICATIONS FOR WATER AND WASTEWATER FACILITIES (MOST RECENT REVISION). THE CONTRACTOR SHALL NOTIFY CITY OF ALBUQUERQUE, BERNALILLO CO. WATER UTILITY, THREE (3) WORKING DAYS PRIOR TO BEGINNING THE CONSTRUCTION OF UTILITIES.
- FOR STORM DRAIN CONSTRUCTION: R.C. PIPE JOINTS SHALL NOT BE GROUTED PRIOR TO FINAL INSPECTION, WHERE IT WILL BE DETERMINED WHICH JOINTS MUST BE GROUTED FOR FINAL ACCEPTANCE OF THE CONSTRUCTION.

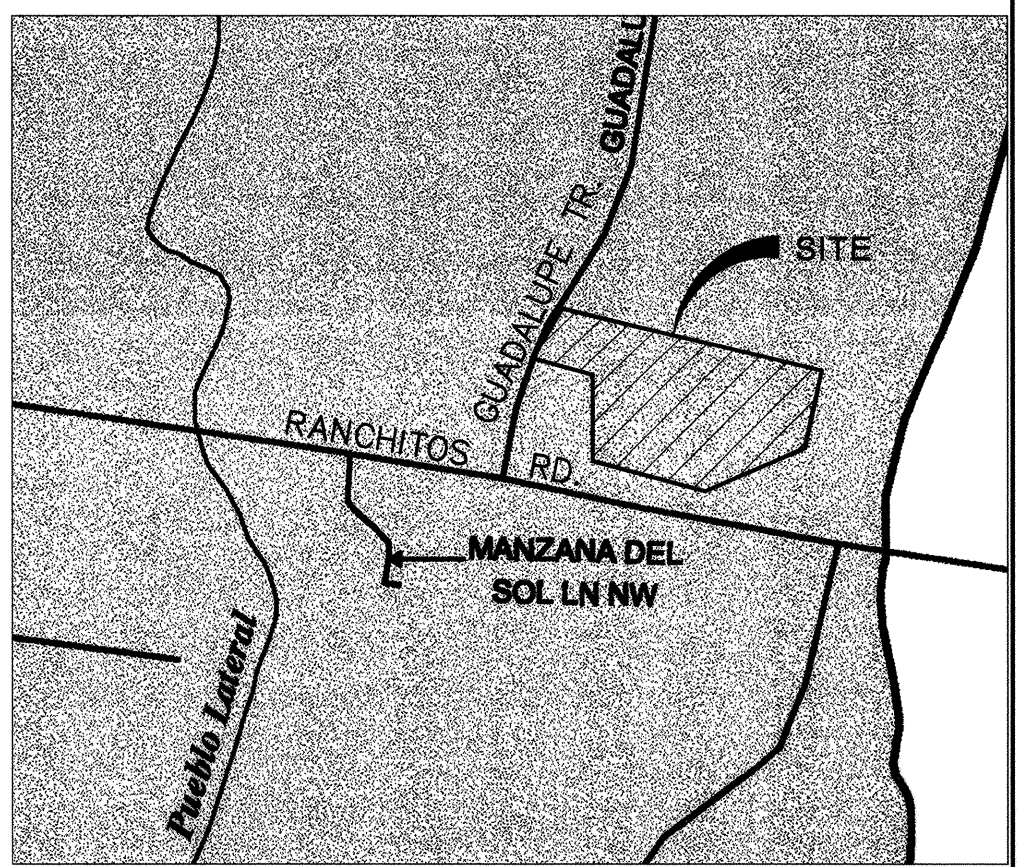
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEER'S STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman		Stephen Woodell	5/31/07	APPROVED FOR CONSTRUCTION	
		Transportation		SA			
		Water/Wastewater		William J. Parker	4/17/07		
		Hydrology		NA			
		C.I.P.					
Constr. Coord.							
City Project No.				583482	Sheet 1		Of 8



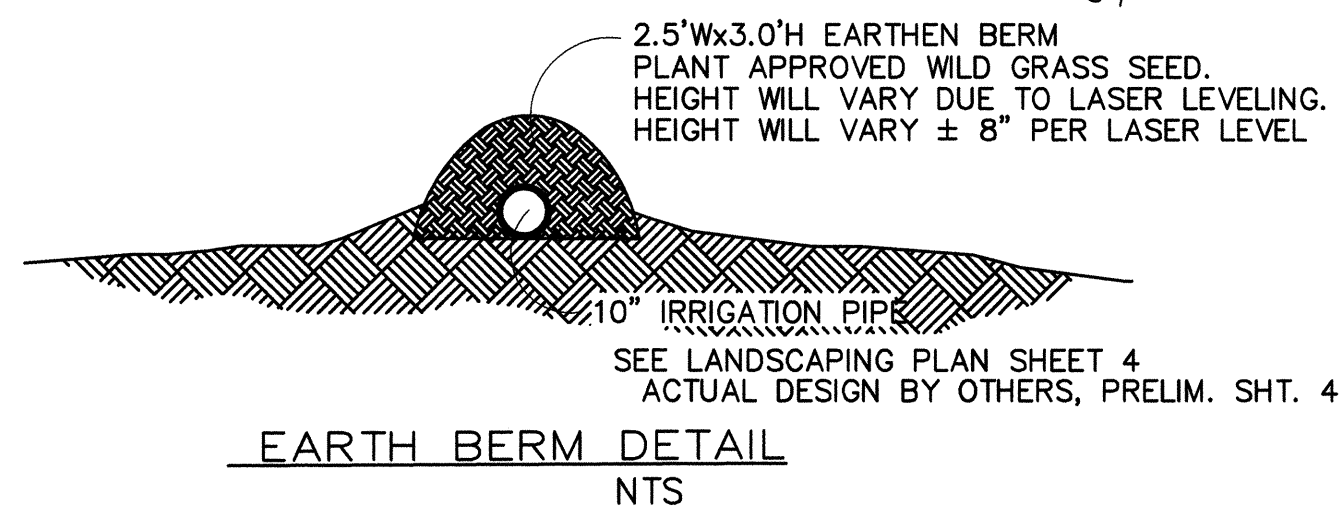
CPN 583482 sheet 3 of 8



FEMA MAP 117 of 825 VICINITY MAP



NARRATIVE
THIS LOT DOES NOT LIE WITHIN A 100 YR. FLOODPLAIN THE AREA'S DRAINAGE SHALL BE DONE IN OCCORDANCE WITH FLAT GRADING SCHEME PER CITY OF ALBUQUERQUE DPM. THE SITE IS 7.85 ACRES AND DIVIDED INTO 8 BASINS. BASINS 100 THRU 500 ARE THE PROPOSED LOTS, BASIN 600 IS THE ROADWAY. THIS IS A SCHEMATIC OF THE PAD SITES TO GET OVERALL CALCULATIONS. EACH LOT IS BASED ON DEVELOPED AREA, AS STATED ABOVE. HOMES ARE SUBJECT TO CHANGE DESIGN BUT NOT AREA. AFTER EACH NEW LOT HAS A FINAL FOOTING DESIGN, A GRADING AND DRAINAGE PLAN IS REQUIRED FOR PLANNING AND STORM WATER MANAGEMENT.



LEGEND

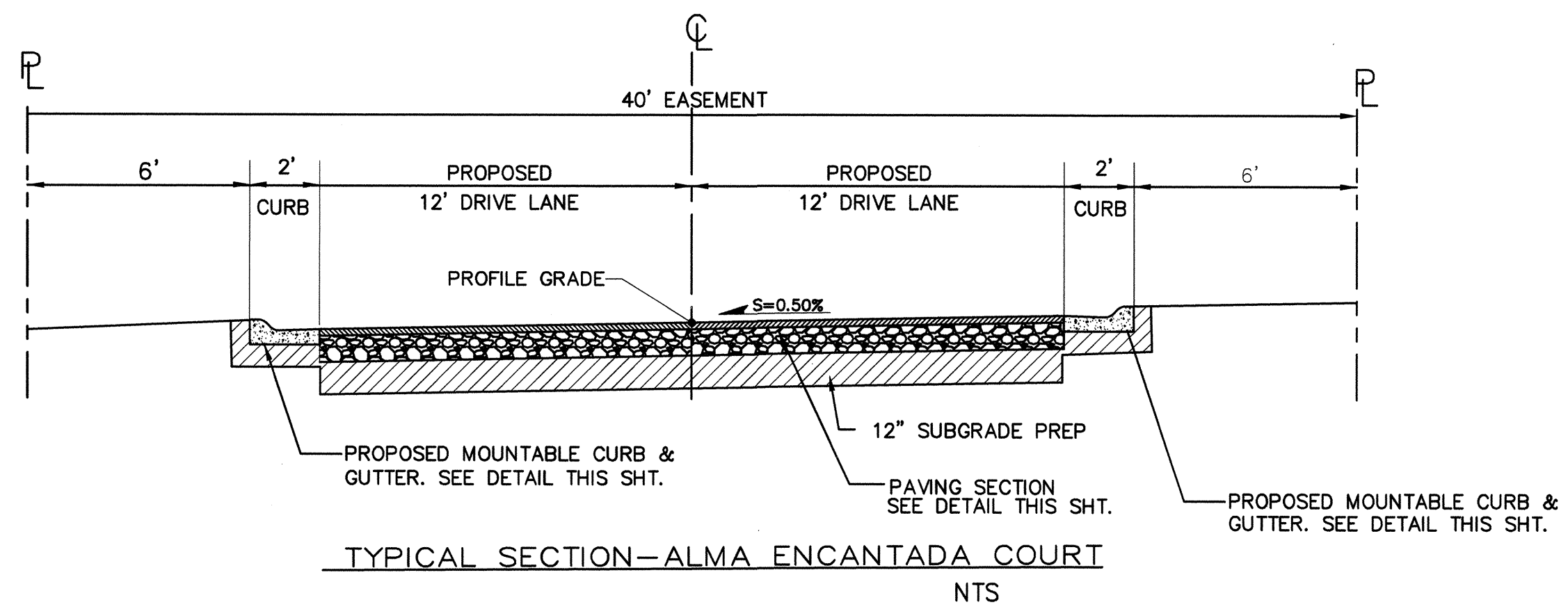
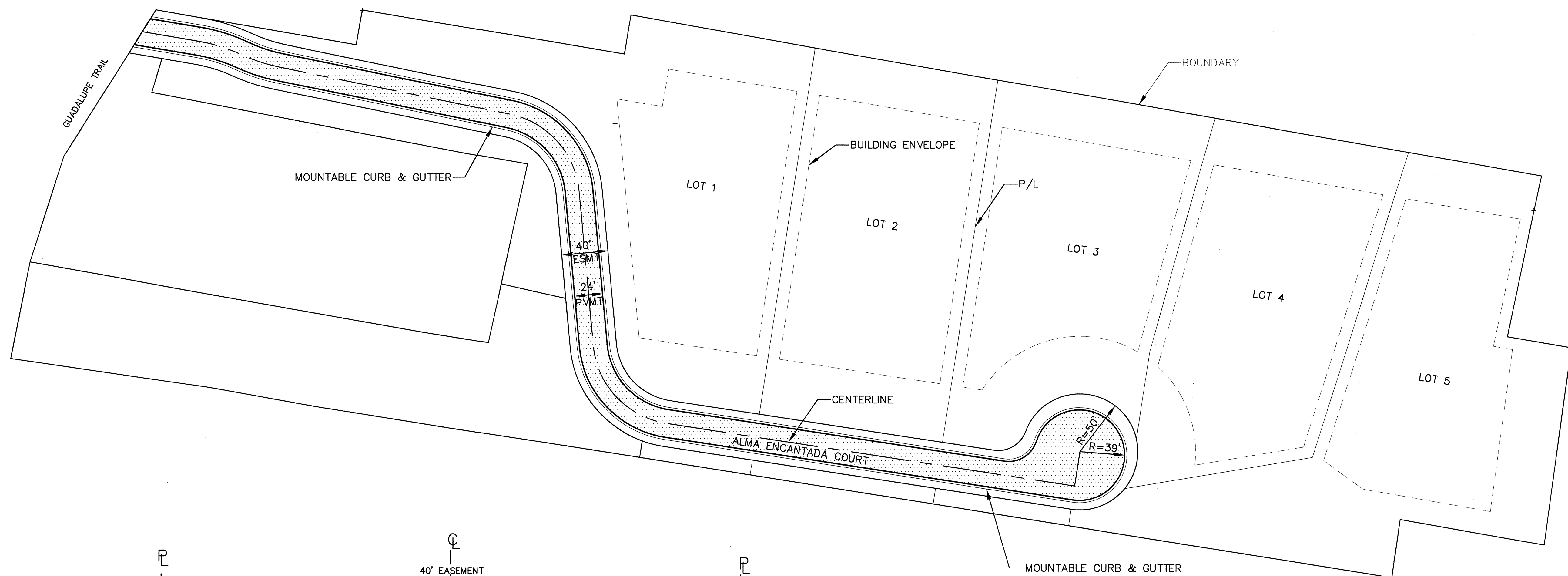
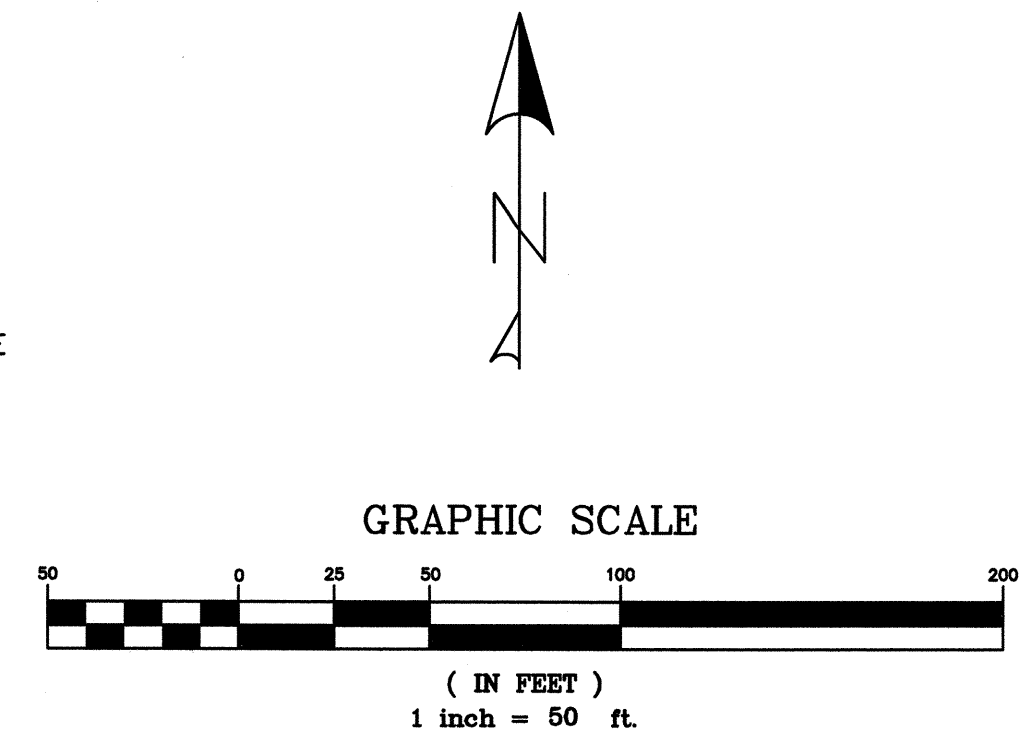
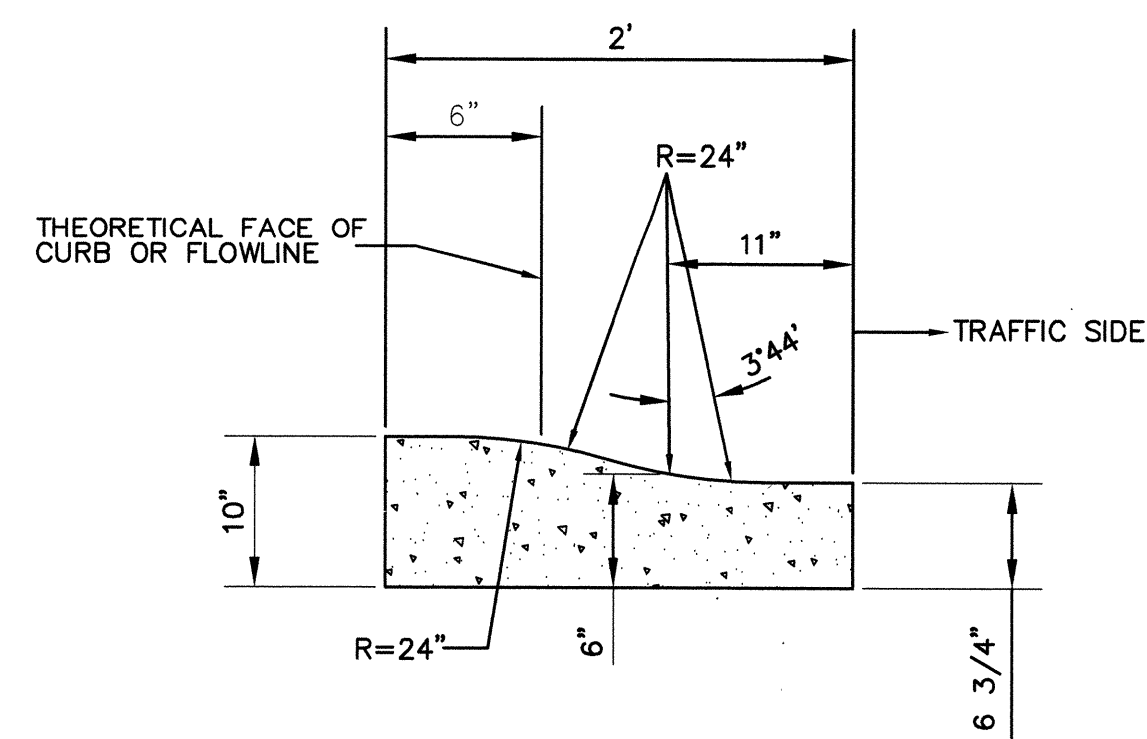
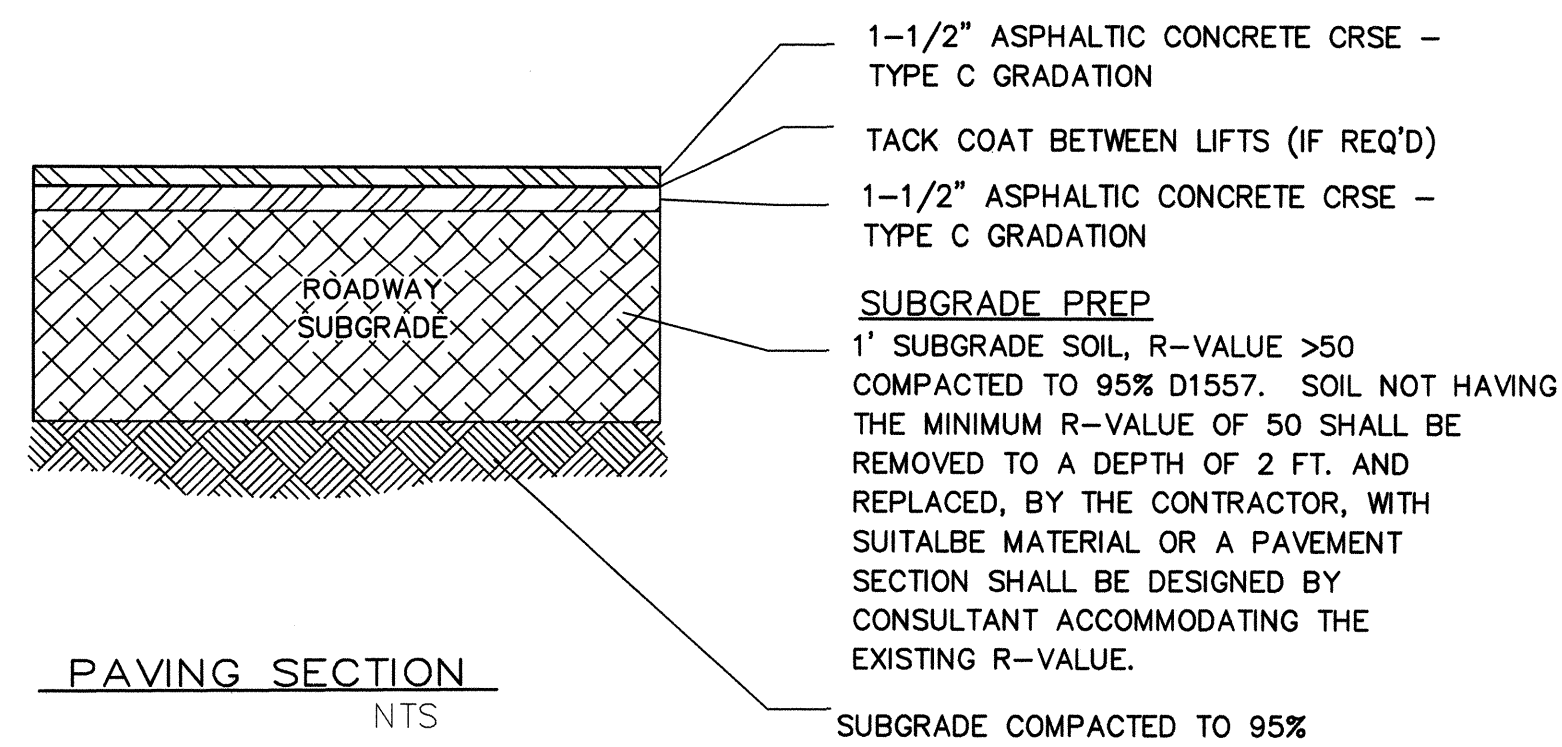
- FP=16.30 FINISHED PAD SITE ELEVATION
- 15.90 PROPOSED SPOT ELEVATION
- EXISTING CONTOUR
- == PROPOSED MOUNTABLE CURB AND GUTTER
- 14 LOT NUMBER
- PROPOSED BASIN BOUNDARY
- (100) BASIN NUMBER
- - - - - LOW POINTS OF ROADWAY
- PROPOSED BERM DETAIL

HYDROLOGIC CALC'S - SECTION 22.2 OF THE DPM

BASIN	AREA(ac)	TYPE A	TYPE B	TYPE C	TYPE D	100 YR, 6 HR VOLUME (ac-ft)	10 DAY VOLUME (ac-ft.)	RETAINING CAPACITY (ac-ft.)
100	1.420	0.00	0.50	0.32	0.18	0.127	0.161	0.354
200	1.168	0.00	0.50	0.35	0.15	0.101	0.126	0.438
300	1.137	0.00	0.50	0.32	0.18	0.101	0.121	0.307
400	1.121	0.00	0.50	0.32	0.18	0.101	0.121	0.206
500	1.535	0.00	0.50	0.35	0.15	0.118	0.144	0.253
600	1.075	0.00	0.00	0.40	0.60	0.225	0.247	0.324
700	0.115	0.00	1.00	0.00	0.00	0.00	0.00	0.00
800	0.274	1.00	0.00	0.00	0.00	0.00	0.00	0.00
EXISTING	7.845	1.00				12.24	0.346	0.346

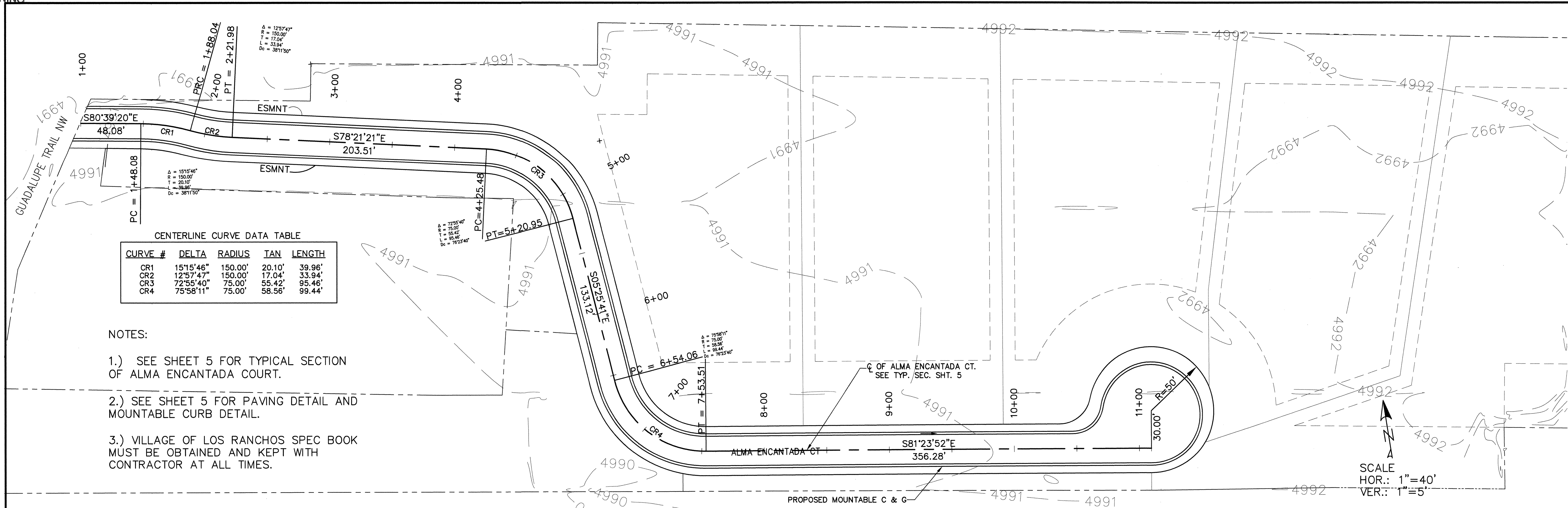
AS BUILT INFORMATION	
CONTRACTOR	DATE
WORK BY	DATE
INSPECTION BY	DATE
VERIFICATION BY	DATE
DRAWING BY	DATE
REVISIONS BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	
BENCH MARKS	
ALBUQUERQUE ACS MONUMENT "15-D15"	
LOCATED IN THE SOUTHWEST QUADRANT	
RANCHITOS RD. AND GUADALUPE TR. NW	
18 FT SO. OF CL OF RANCHITOS RD	
AND 33 FT W. OF CL. GUAD. TR.	
ELEVATION = 4990.85 (088)	
SURVEY INFORMATION	
FIELD NOTES	
DATE	
BY	
NO.	
ENGINEER'S SEAL	
MILLACE L. BINGHAM REGISTERED PROFESSIONAL ENGINEER NEW MEXICO 7281 4/16/07	
REVISIONS	
NO.	DATE
DATE	
BY	
DESIGNED BY	DATE
DRAWN BY	DATE
CHECKED BY	DATE

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: ALMA ENCANTADA SUBDIVISION GRADING AND DRAINAGE PLAN			
Design Review Committee	City Engineer Approval	4/16/07	4/16/07
For Information Only		4/16/07	4/16/07
City Project No. 583482		Zone Map No. D15	Sheet 4 Of 8



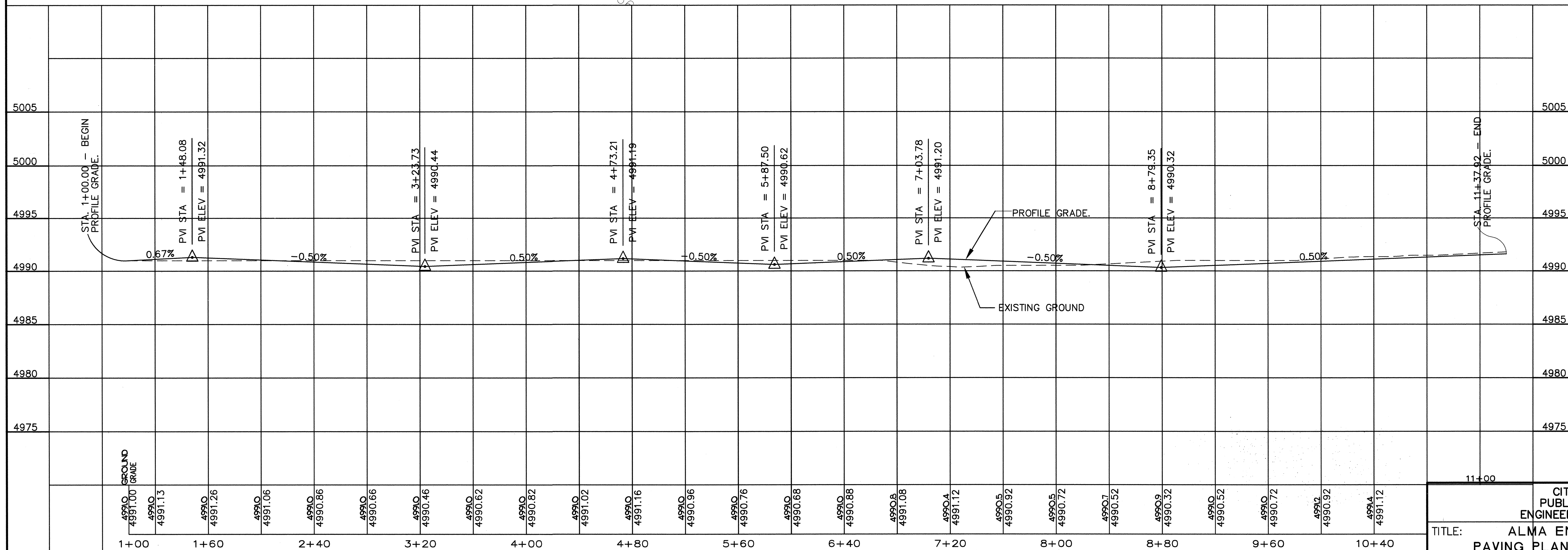
		ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION		
				FIELD NOTES		ALBUQUERQUE ACS MONUMENT "15-D15"		CONTRACTOR		
				NLI.	BY	DATE	LOCATED IN THE SOUTHWEST QUADRANT		STARTED BY	DATE
							RANCHITOS RD. AND GUADALUPE TR. NW		INSPECTOR'S	DATE
							18 FT SO. OF CL OF RANCHITOS RD		FIELD	DATE
							AND 33 FT W. OF CL. GUAD. TR.		VERIFICATION BY	DATE
NO. DATE		REMARKS		BY		ELEVATION = 4990.85 (D88)		MICRO-FILM INFORMATION		
DESIGNED BN		DATE						RECORDED BY		DATE
DRAWN BY BN		DATE						NO.		
CHECKED BY WLB		DATE								

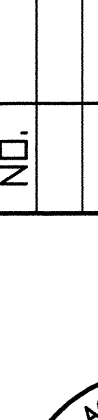
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP			
TITLE: ALMA ENCANTADA SUBDIVISION OVERALL PAVING PLAN			
Disign Review Committee	City Engineer Approval	Least Design Update	Mo/Day/Yr
City Project No.	583482	Zone Map No. D15	Sheet 5 Of 8



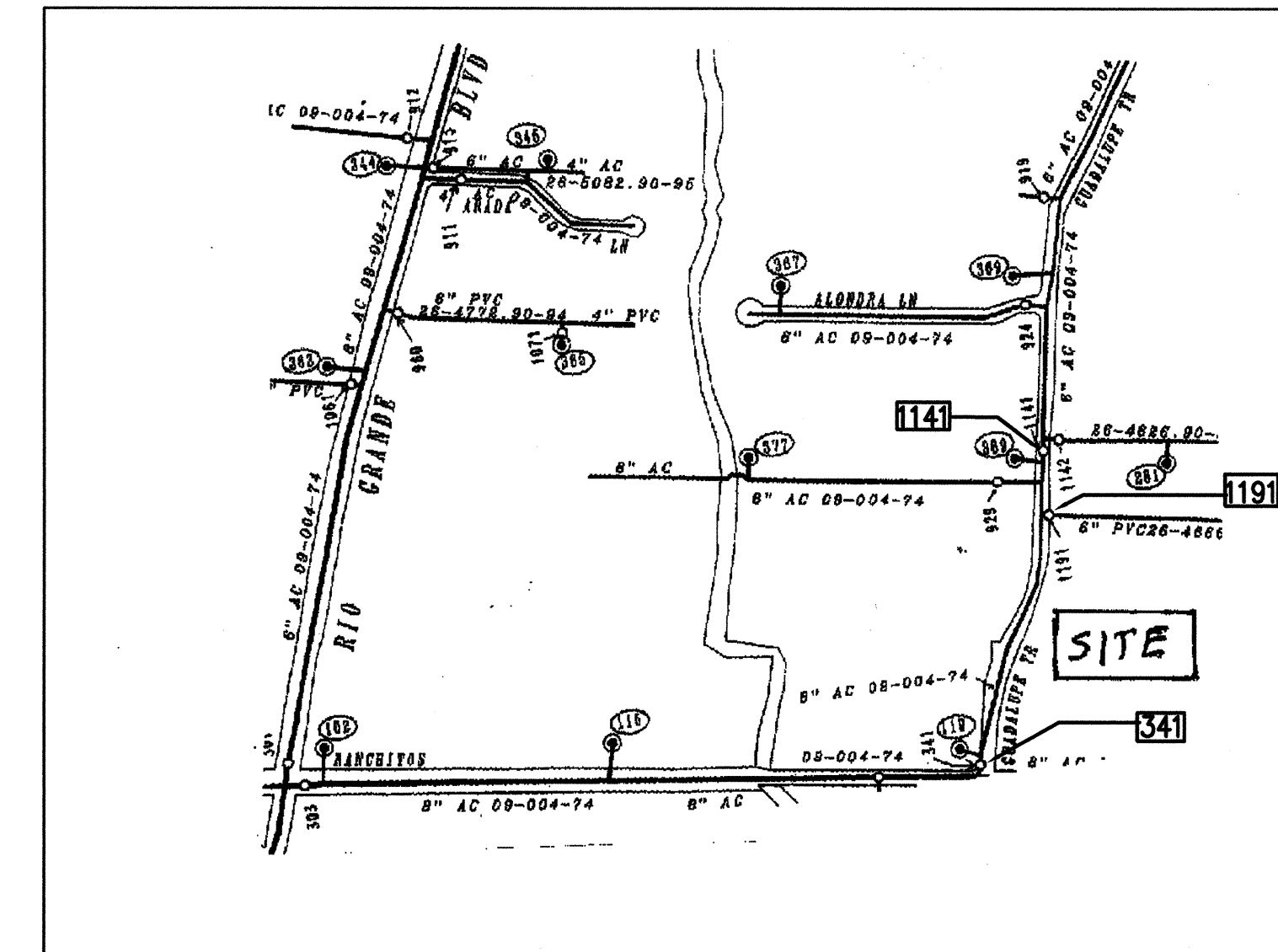
<u>CURVE #</u>	<u>DELTA</u>	<u>RADIUS</u>	<u>TAN</u>	<u>LENGTH</u>
CR1	15°15'46"	150.00'	20.10'	39.96'
CR2	12°57'47"	150.00'	17.04'	33.94'
CR3	72°55'40"	75.00'	55.42'	95.46'
CR4	75°58'11"	75.00'	58.56'	99.44'

- NOTES:
- 1.) SEE SHEET 5 FOR TYPICAL SECTION
OF ALMA ENCANTADA COURT.
-
- 2.) SEE SHEET 5 FOR PAVING DETAIL AND
MOUNTABLE CURB DETAIL.
-
- 3.) VILLAGE OF LOS RANCHOS SPEC BOOK
MUST BE OBTAINED AND KEPT WITH
CONTRACTOR AT ALL TIMES.

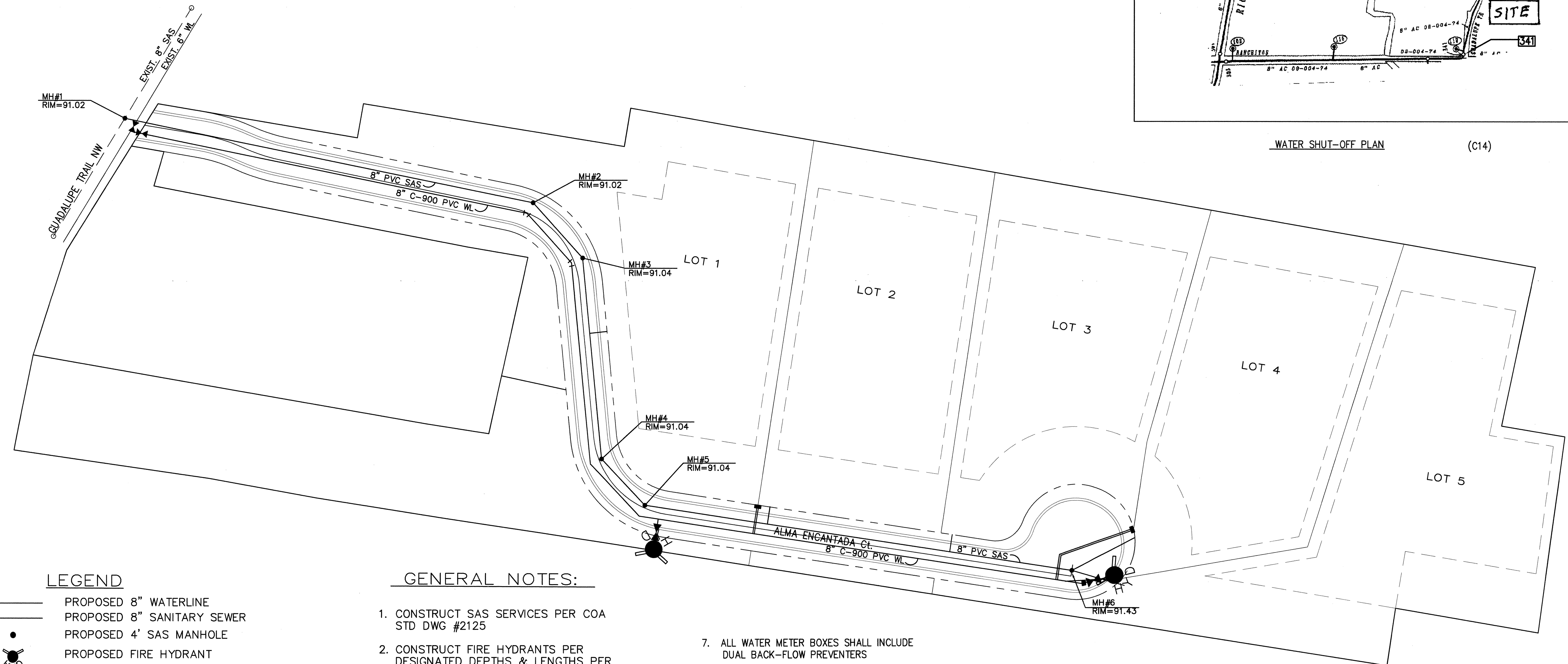


PROJECT GROUP		DIVISION		E	
No.		Sheet		6 Of 8	
Mo/Da/Yr Mo/Da/Yr		Mo/Da/Yr Mo/Da/Yr		Mo/Da/Yr Mo/Da/Yr	
DESIGNED BN DRAWN BY BN CHECKED BY WLB		REMARKS REVISIONS DESIGN		NO. DATE BY	
ENGINEER'S SEAL				NO. BY DATE	
SURVEY INFORMATION		FIELD NOTES		BENCH MARKS	
ALBUQUERQUE ACS MONUMENT "15-D15" LOCATED IN THE SOUTHWEST QUADRANT RANCHITOS RD. AND GUADALUPE TR. NW 18 FT SO. OF CL OF RANCHITOS RD AND 33 FT W. OF CL. GUAD. TR. ELEVATION = 4990.85 (D88)		CONTRACTOR WORK ORDER BY INSPECTOR'S ACCEPTANCE BY FIELD VERIFICATION BY DRAWINGS PREPARED BY MICRO-FILM INFORMATION		RECORDED BY DATE	

1. ONLY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVE
2. NOTIFY CITY OF ALBUQUERQUE WATER SYSTEM DIVISION (PH 857 8200)
SEVEN (7) WORKING DAYS IN ADVANCE OF THE NEED TO EXECUTE WATER SHUT-OFF PLAN.
3. APPROXIMATE WATER SHUT-OFF TIME IS 24 HOURS.
4. CLOSE VALVES 341,1141 AND 1191 (SEE PLAN)



WATER SHUT-OFF PLAN (C14)

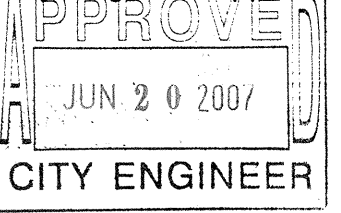
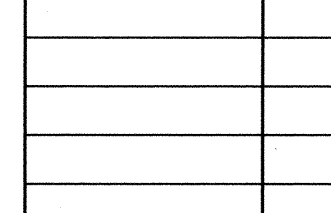


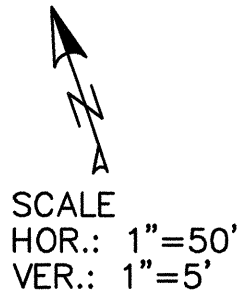
	PROPOSED 8" WATERLINE
	PROPOSED 8" SANITARY SEWER
	PROPOSED 4' SAS MANHOLE
	PROPOSED FIRE HYDRANT
	PROPOSED 8" GATE VALVES
	PROPOSED CAP OR PLUG
	PROPOSED SINGLE METER, WATER SERVICE LINE
	PROPOSED DOUBLE METER, WATER SERVICE LINES
	PROPOSED SANITARY SEWER SERVICE LINE
	PROPOSED CROSS, TEE, OR ELBOW

1. CONSTRUCT SAS SERVICES PER COA STD DWG #2125
2. CONSTRUCT FIRE HYDRANTS PER DESIGNATED DEPTHS & LENGTHS PER COA STD DWG #2340, FULLY RESTRAINED.
3. CONSTRUCT ALL SINGLE & DOUBLE WATER SERVICES PER COA STD DWG'S #2361, #2362 & #2363.
4. SEE SHEET #7 FOR WATER SHUT-OFF PLAN.
5. SEE SHEET #7 FOR RESTRAINED JOINT LENGTHS FOR WATER LINE FITTINGS.
6. CONSTRUCT ALL GATE VALVES TO COA STD DWGS 2326 & 2328
7. ALL WATER METER BOXES SHALL INCLUDE DUAL BACK-FLOW PREVENTERS
8. ALL METER BOXES SHALL HAVE TRAFFIC RATED LIDS PER COA STD 2369



10.9 Wallace L. Bingham P.E. of the firm of BINGHAM ENGINEERING
A Professional Engineer Registered 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 a qualified person under my direct supervision
and has been constructed in accordance with the plans and
specifications approved by the City Engineer and that the original
design intent of the applicant is shown in the construction drawings noted
on the face of the construction drawings. This certification
is based on site inspections by me or personnel under my direction
and survey information provided by a NM Registered Surveyor

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP				
TITLE: ALMA ENCANTADA SUBDIVISION OVERALL UTILITY PLAN				
Design Review Committee 		City Engineer Approval 		Last Design Update 
City Project No. 583482		Zone Map No. D15	Sheet	7 Of 8



RESTRAINT TABLE		
STA	FITTING	RESTRAINED LENGTH Ft
1+00	TEE	46
1+00	VALVE	55
4+40	45° BEND	11
6+75	"	"
7+33	"	"
7+47	"	"
11+19	22.5° BEND	5
11+21	DEAD END	42
FIRE HYDRANTS SHALL BE RESTRAINED THROUGHOUT		
<u>WATER SERVICE</u>		
DBLE 8+30.54 Lt		
DBLE 10+96.95 Lt		
SINGL 11+09.78		
<u>SEWER SERVICE</u>		
5+45.98		
8+46.49		
10+02.10		
11+02.10		
11+09.78		

10-00

11-00

WALLACE L. BINGHAM
NEW MEXICO
7281
REGISTERED PROFESSIONAL ENGINEER

I, Wallace L. Bingham P.E. of the firm of BINGHAM ENGINEERING a Professional Engineer, registered by the State of New Mexico, do hereby certify, to the best of my knowledge and belief that the infrastructure shown as part of this project has been inspected by me or a qualified person under my direct supervision and has been constructed in accordance with the plans and specifications 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 a NM Registered Surveyor

3.10.9

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP					
TITLE: ALMA ENCANTADA UTILITY PLAN AND PROFILE					
Design Review Committee		City Engineer Approval		Mo/Day/Yr	Mo/Day/Yr
				Last Design Update	
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