# PUBLIC IMPROVEMENT PLANS

FOR THE

# CANDLEWOOD SUBDIVISION

TOWN OF ATRISCO GRANT, AIRPORT UNIT

DECEMBER, 1998

PREPARED FOR:

ARGUS DEVELOPMENT COMPANY 6400 UPTOWN BLVD. NE. SUIT 200-W ALBUQUERQUE, NEW MEXICO 87110

PREPARED BY:

HEWITT ENGINEERING & ENVIRONMENTAL CONSULTANTS 2433 PALOMAS DRIVE, NE ALBUQUERQUE, NEW MEXICO 87110

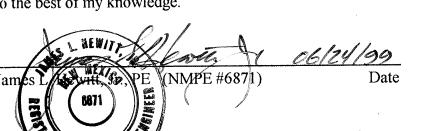
## INDEX TO DRAWINGS

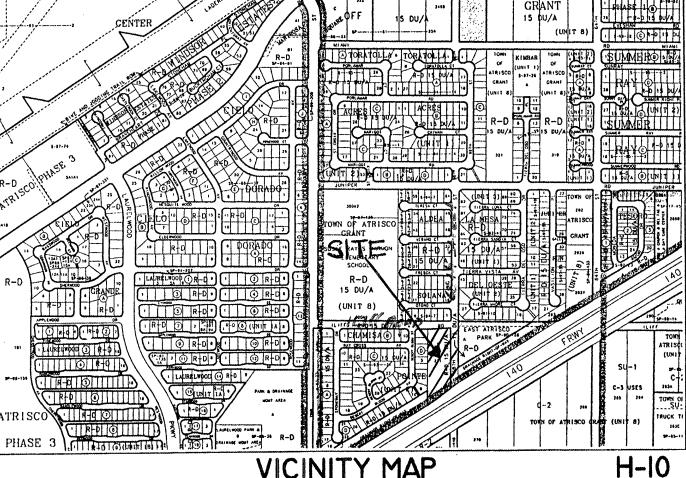
SHEET	NO.	TITLE
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SURVEYOR'S CERTIFICATION

"AS BUILT" INFORMATION

I, the undersigned, being a Professional Engineer registered in the State of New Mexico, do hereby certify that this drawing was prepared by me, and that the as-built information shown hereon is based on actual field measurements performed by Aldrich Land Surveying. I further certify that this information is true and correct to the best of my knowledge.

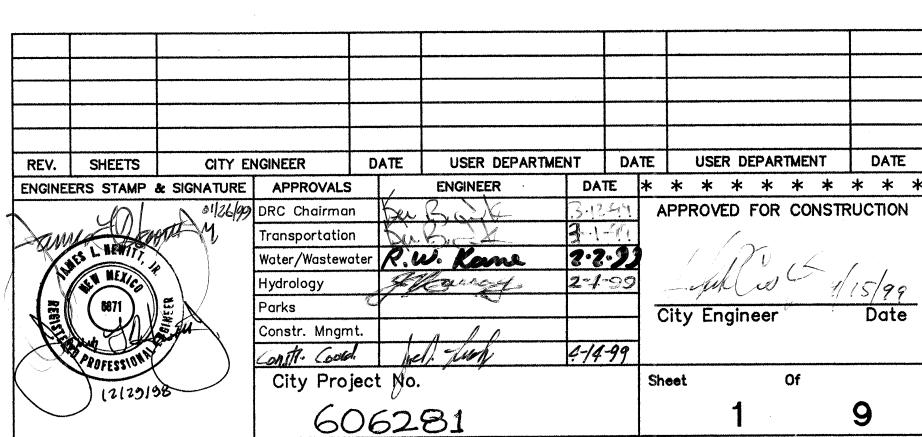




## GENERAL NOTES

- 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 amended with Update No. 6.
- All work on this project shall be performed in accordance with applicable federal, state, and local laws, rules, and regulations concerning construction safety and health.
- Prior to construction, the Contractor shall excavate & verify the horizontal and vertical locations of all obstructions. Should a conflict exist, the Contractor shall notify the Engineer so that the conflict can be resolved with minimum
- Two (2) working days prior to any excavation, Contractor must contact New Mexico One Call System, Inc @ 260-1990 for location of existing utilities.
- Contractor shall conduct his operations in a manner which will minimize interference with local traffic. Contractor shall comply with all applicable laws, ordinances, rules, regulations, and orders of any public body having jurisdiction for the safety of persons or property, and to protect them from damage, injury, or loss. Contractor shall erect and maintain, as required by the conditions and progress of the work, all necessary safeguards for safety continuously and not limited to normal working hours, throughout the duration of the project. Contractor shall adhere to Section 19 of the of the project. Contractor shall adhere to Section 19 of the General Conditions of the City of Albuquerque Standard Specifications for Public Works Construction, 1986, as amended with Update No. 6.
- The Contractor agrees that he shall assume the sole and complete responsibility for the job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working hours; and that the Contractor shall defend, indemnify, and hold harmless the Owner & Engineer from any and all liability real or alleged, in connection with the performance of work on this project, excepting liability arising from the sole negligence of the Owner or Engineer.
- Five (5) TRAFFIC CONTROL: Three (3) working days prior to beginning construction the Contractor shall submit to the Construction Coordination Division a detailed construction schedule. Two (2) working days prior to construction, the Contractor shall obtain a barricading permit from the Construction Coordination Division. Contractor shall notify the Barricade Engineer (768-2551) prior to occupying an intersection. See section 19 of the specifications. All street striping altered or destroyed shall be replaced by Contractor to location and in kind as existing at no additional cost to the
- When abutting existing pavement to new, sawcut existing pavement to a straight edge and at a right angle, or as approved by the field Engineer. Removal of broken or cracked pavement will also be required.
- Existing curb and gutter not to be removed under the contract which is damaged or displaced by the Contractor shall be removed and replaced by the Contractor at his
- All final backfill for trenches shall be compacted to a minimum 90% maximum density per ASTM D-1557 and as directed by section 701.14.2 and standard drawing number
- All existing signs, markers, delineators, etc. within the construction limits shall be removed, stored and re-set by

- The Contractor shall promptly clean up any material excavated within the public right of way so that the excavated material is not susceptible to being washed down the street or into any public drainage facility.
- Proposed waterline materials shall be either PVC pipe meeting AWWA C900 requirements (6" 12") or ductile iron pipe, thickness class 50 (6" 16").
- All sanitary sewer line stationing refers to sanitary sewer centerline stationing.
- All fittings on waterlines shall have restrained joints as noted
- Contractor shall support all existing, underground utility lines which become exposed during construction. Payment for supporting work shall be incidental to waterline and/or
- Contractor shall assist the Engineer/Inspector in the recording of data on all utility lines and accessories as required by the City of Albuquerque for the preparation of record drawings. Contractor shall not cover utility lines and accessories until all data has been recorded.
- The Contractor is responsible for protecting and maintaining all existing monumentation controls. In the event of inadvertent destruction or alteration, the Contractor must immediately notify the City Chief Surveyor.
- 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 are 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 no representation pertaining thereto, and assumes no responsibility or liability therefor. The Contractor shall inform itself of 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 any and all damage caused by its failure to locate, identify, and preserve any and all existing utilities. The Contractor shall comply with State statutes, municipal and local ordinances, rules and regulations pertaining to the location of these lines and facilities, in planning and conducting excavation, whether by calling or notifying the utilities, complying with "New Mexico One Call System" procedures, or otherwise.
- The Contractor shall notify the Engineer not less than seven (7) days prior to starting work in order that the Engineer may take necessary measures to insure the preservation of survey monuments. Contractor measures to insure the preservation of survey monuments. Contractor shall not disturb permanent survey monuments without the consent of the Engineer and shall notify the Engineer 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
- Any work occurring within an arterial roadway requires 24 hours



## DRB-97-46

# responsible for any of the design concepts, calculations,

"I, Timothy Aldrich, a duly qualified Registered Professional Land

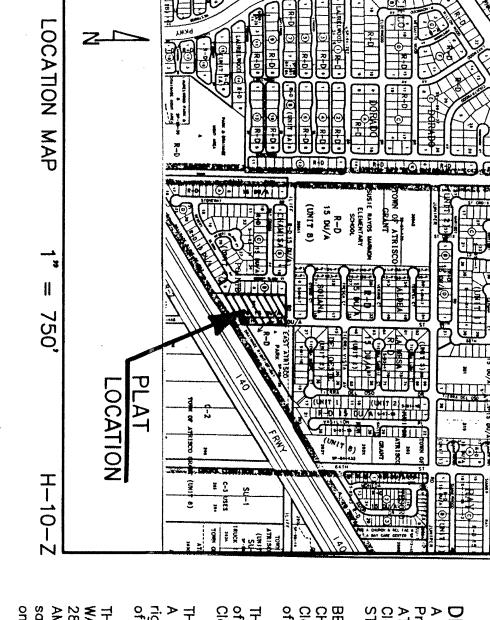
Surveyor under the laws of the State of New Mexico, do hereby

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." Aldrich Land Surveying is not



d Section 15, Township 10 North, Range 2 East, New Mexico being the remaining portion of TRACT 271, TOWN OF ted on said plat filed for record in the office of the County ume D, Folio 117 together with a portion of VACATED 68TH ribed as follows:

SUBDIVISION

aid point being common with the northeast corner of BLOCK D, esignated on said plat filed for record in the office of the County 94C, Folio 68 and further being on the south right—of—way line ument "1—J9" bears S 53\*42'00" W, 5225.06 feet;

of an AMAFCA PARCEL as the same is described in a County, New Mexico on January 6, 1997 in Book 97—1, Pages and point being common with the northwest corner of said of BLOCK D, CHAMISA POINTE SUBDIVISION, UNIT 2 as the of the County Clerk of Bernalillo County, New Mexico

ed, is the right to build, rebuild, construct, reconstruct, relocate, change, remove, modify, renew, operate, and ain facilities for the purposes described above, together ree access to, from, and over said easements, including ent working area space for electric transformers, with the and privilege to trim and remove trees, shrubs of bushes interfere with the purposes set forth herein. No building, sooil (aboveground of subsurface), hot tub, concrete or wood lecking, or other structure shall be erected or constructed and easements, nor shall any well be drilled or operated n. Property owners shall be solely responsible for ting any violations of the National Electrical Safety Code by construction of pools, decking, or any structures and to within or near easements shown on this plat. The utility companies listed above did anduct a title search of the properties shown hereon. Quently, the utility companies do not waive or release any ent or easement rights which may have been granted by prior eplat or other document and which are not shown on this

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011999 Date

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26-99 Date

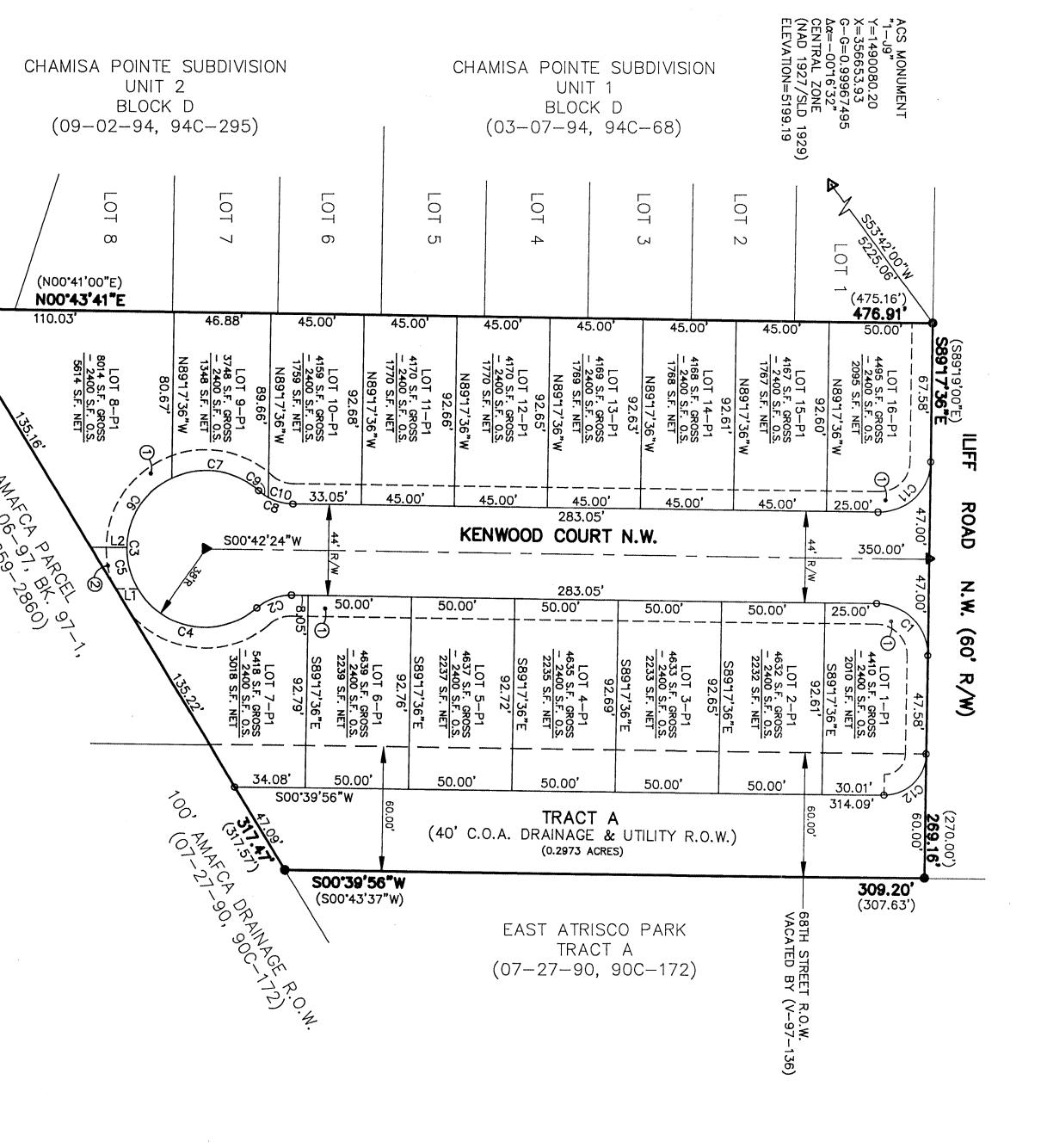
ido Corporation, hereinafter called "Company" for and in Indipaid, the reciept whereof is hereby confessed and ack—acquired by the Company or its assignors under that certain Book 112, page 290 on May 17, 1930, AND a Modification of Assignment of this Easement in Book Misc. 575, page 928, Assignment interest may appear therein, in the following describes to the same of the same of the same of the following describes the same of the sa

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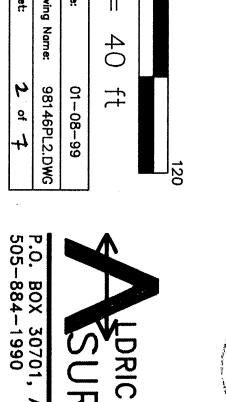
SURVEYING

PLAT FOR
CANDLEWOOD SUBDIVISION
WITHIN THE
TOWN OF ATRISCO GRANT
PROJECTED SECTION 15
NSHIP 10 NORTH, RANGE 2 EAST, NMF



7ANGEN 25.00 9.53 9.53 10.81 10.81 10.81 23.57 23.57 25.69 25.69 25.00 20.00 35.36 17.82 56.70 58.22 20.79 40.06 42.57 17.82 12.33 35.36 28.27

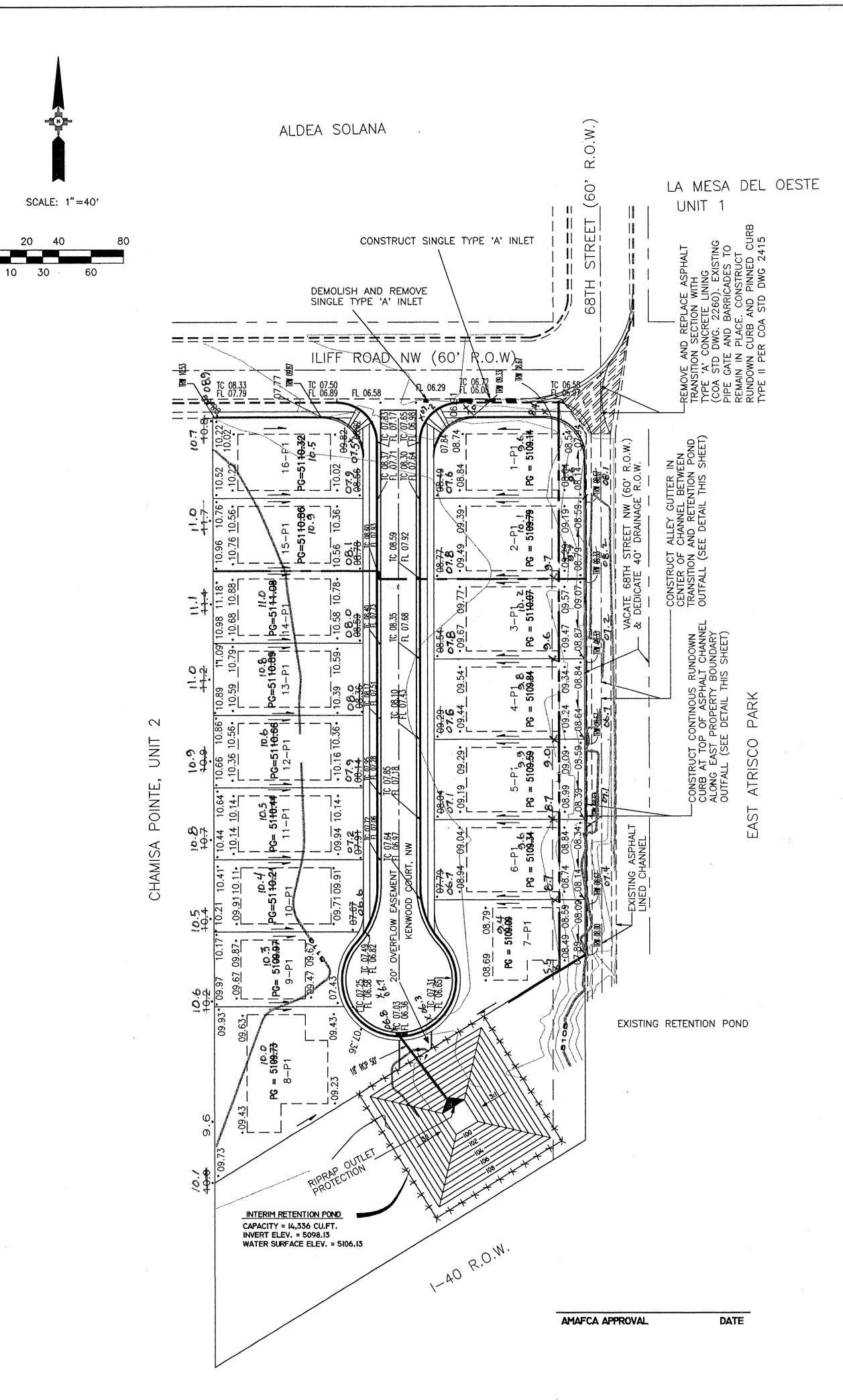
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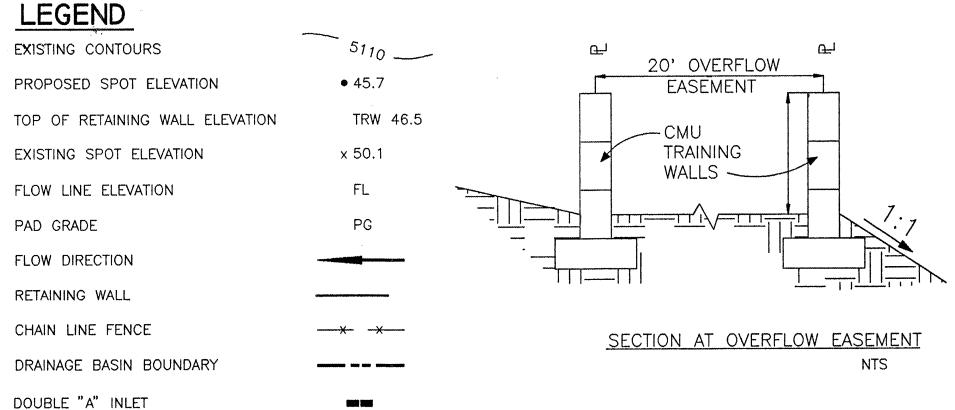


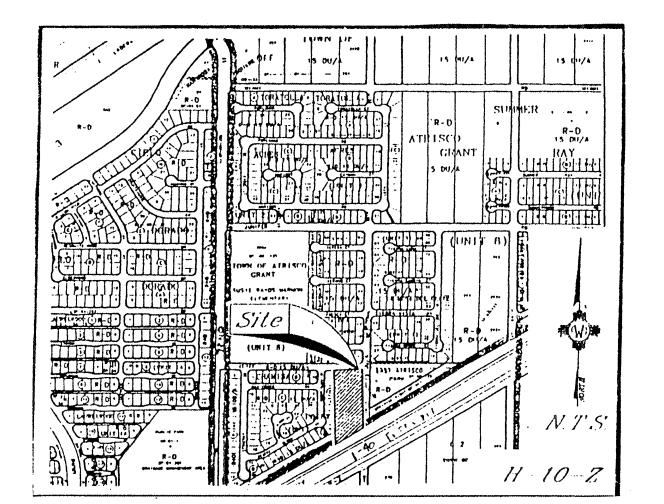
1.36.7

(3).

SURVEYING







VICINITY MAP

#### LEGAL DESCRIPTION

TRACT 271, TOWN OF ATRISCO GRANT, AIRPORT UNIT. FILED IN VOL. D, FOLIO 117 ON DECEMBER 5, 1944

#### **ENGINEER**

HEWITT ENGINEERING & ENVIRONMENTAL CONSULTANTS 2433 PALOMAS DRIVE, NE ALBUQUERQUE, NEW MEXICO 87110 (505) 889-4040

#### **SURVEYOR**

SOUTHWEST SURVEYING CO., INC. 333 LOMAS BOULEVARD, N.E. ALBUQUERQUE, NEW MEXICO 87102 (505) 247-4444

#### **BENCHMARK**

ACS "6-J10," 3-1/4" ALUMINUM CAP IN THE CENTER MEDIAN OF I-40. 0.81 MILES WEST OF COORS BLVD. ELEVATION 5117.13, SLD 1929.

NORTHWEST BONNET BOLT ON FIRE HYDRANT ALONG THE NORTH CURB OF ILIFF ROAD, N.W. (SOUTHWEST CORNER OF ALDEA SOLANA SUBDIVISION) ELEVATION 5122.65.

RD (16 DWELLING UNITS/ACRE MAXIMUM)

#### PROPOSED DEVELOPMENT 16 SINGLE FAMILY RESIDENTIAL LOTS.

#### LAND AREAS

1.9825 ACRES 20 FT. VACATION OF 68TH STREET R.O.W. 0.1563 ACRES 2.1388 ACRES TOTAL SUBDIVISION AREA DRAINAGE EASEMENT 0.5585 ACRES

#### FLOOD HAZARD

TRACT 271 IS LOCATED IN FLOOD HAZARD ZONE X (AREAS DETERMINED TO BE OUTSIDE THE 500-YEAR FLOODPLAIN) DESIGNATED ON FEMA'S FLOOD INSURANCE RATE MAP (FIRM) COMMUNITY-PANEL MAP NO. 35001C0327 D (SEPTEMBER 20, 1996). AN APPROVED LETTER OF MAP REVISION (LOMR) REMOVED THE SOUTHEASTERN CORNER OF TRACT 271 FROM THE SPECIAL FLOOD HAZARD AREA (SFHA) DESIGNATED ON THE PREVIOUS FIRM (I.E., COMMUNITY-PANEL NO. 350002 0021 C, OCTOBER 14, 1983).

#### LOCATION AND DESCRIPTION

TRACT 271 IS UNDEVELOPED AND UNDISTURBED. GROUND COVER IS SAGE AND NATIVE GRASSES. TRACT 271 IS BOUNDED ON THE NORTH BY ILIFF ROAD, NW; ON THE SOUTH BY A DRAINAGE EASEMENT; ON THE WEST BY CHAMISA POINT, UNIT 2; AND ON THE EAST BY THE 68TH STREET R.O.W. (AND (VACANT LAND RESERVED FOR FUTURE DEVELOPMENT OF THE EAST ATRISCO PARK). THE WEST BLUFF OUTFALL, PHASE II STORM INTERCEPTOR (WEST BLUFF INTERCEPTOR) WILL BE CONSTRUCTED IN THE DRAINAGE EASEMENT.

#### EXISTING CONDITIONS

OFF-SITE DRAINAGE BASINS (TO THE NORTH AND WEST OF TRACT 271) ARE FULLY DEVELOPED. OFF-SITE STORM FLOWS CONVERGE AT ILIFF ROAD AND 68TH STREET. AN ASPHALT-LINED CHANNEL AND 48-INCH STORM DRAIN (WITHIN THE 68TH STREET R.O.W.) CONVEY THESE FLOWS TO THE RETENTION POND ADJACENT TO THE 1-40 R.O.W.

STORM FLOW FROM TRACT 271 IS INTERCEPTED AND CONVEYED TO THE RETENTION POND BY THE ASPHALT-LINED CHANNEL.

#### PROPOSED IMPROVEMENTS

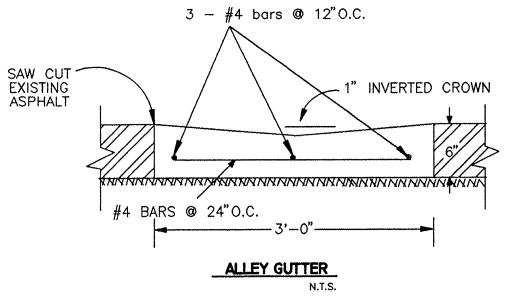
ON-SITE STORM FLOW (5.51 CFS) WILL BE DISCHARGED TO KENWOOD COURT. THIS FLOW WILL BE INTERCEPTED BY A STORM INLET AND CONVEYED TO AN INTERIM RETENTION POND (14,336 FT3 CAPACITY) LOCATED IN THE DRAINAGE EASEMENT. THE RETENTION POND WILL BE SURROUNDED BY A 6 FT HIGH CHAIN LINK FENCE.

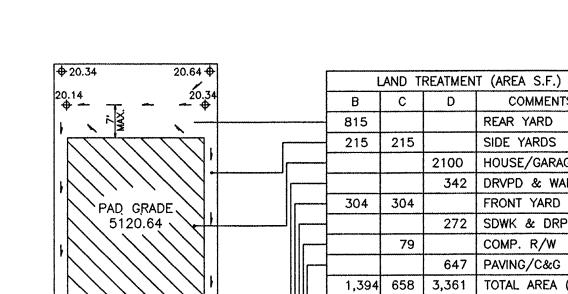
ON-SITE STORM FLOW (0.24 CFS) FROM THE BACKYARDS OF LOTS 1-7, WILL BE DISCHARGED TO THE ASPHALT-LINED CHANNEL. ON-SITE STORM FLOW (1.73 CFS) FROM LOTS 1, 2, 15, AND 16 WILL BE DISCHARGED TO ILIFF ROAD. A WATER BLOCK IN KENWOOD COURT WILL PREVENT ENTRY OF OFF-SITE STORM FLOW FROM ILLIF ROAD.

THE INTERIM RETENTION POND WILL BE ELIMINATED, AND THE KENWOOD COURT STORM DRAIN WILL BE EXTENDED, ON COMPLETION OF THE WEST BLUFF INTERCEPTOR.

#### SITE HYDROLOGY ('EXISTING AND FULLY DEVELOPED' CONDITIONS)

CALCULATIONS AND SUPPLEMENTAL HYDROLOGIC AND HYDRAULIC INFORMATION ARE INCLUDED IN THE DRAINAGE REPORT FOR THE CANDLEWOOD SUBDIVISION.





REAR YARD SIDE YARDS 2100 HOUSE/GARAGE 342 DRVPD & WALK FRONT YARD 272 SDWK & DRPD COMP. R/W 647 PAVING/C&G 1,394 658 3,361 TOTAL AREA (S.F.) 25.8 | 12.2 | 62.0 | TOTAL AREA (%)

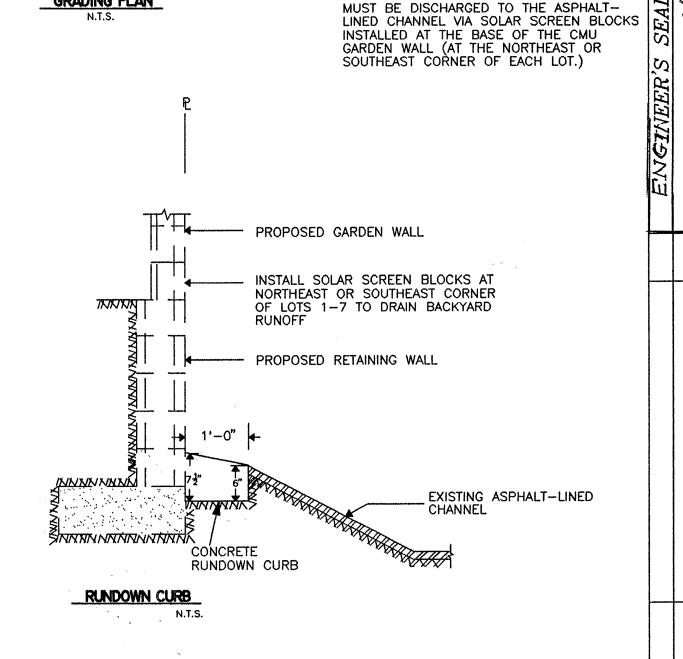
COMMENTS

LAND TREATMENTS AND TYPICAL LOT

ROOF RUNOFF FROM ALL LOTS MUST BE DISCHARGED TO KENWOOD COURT. BACKYARD RUNOFF FROM LOTS 1-7 MUST BE DISCHARGED TO THE ASPHALT-

A WATER BLOCK ON KENWOOD COURT, 105' SOUTH OF ILIFF ROAD, PREVENTS

ENTRY OF OFF-SITE STORM FLOW.



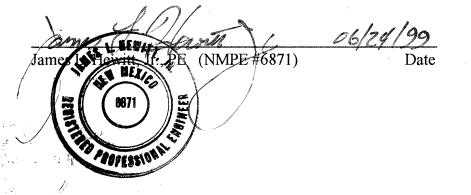
"AS BUILT" INFORMATION

I, the undersigned, being a Professional Engineer registered in the State of New Mexico, do hereby certify that this drawing was prepared by me, and that the as-built information shown hereon is based on actual field measurements performed by Aldrich Land Surveying. I further certify that this information is true and correct to the best of my knowledge.

4' PCC S/W-

C STREET ---

FLOW

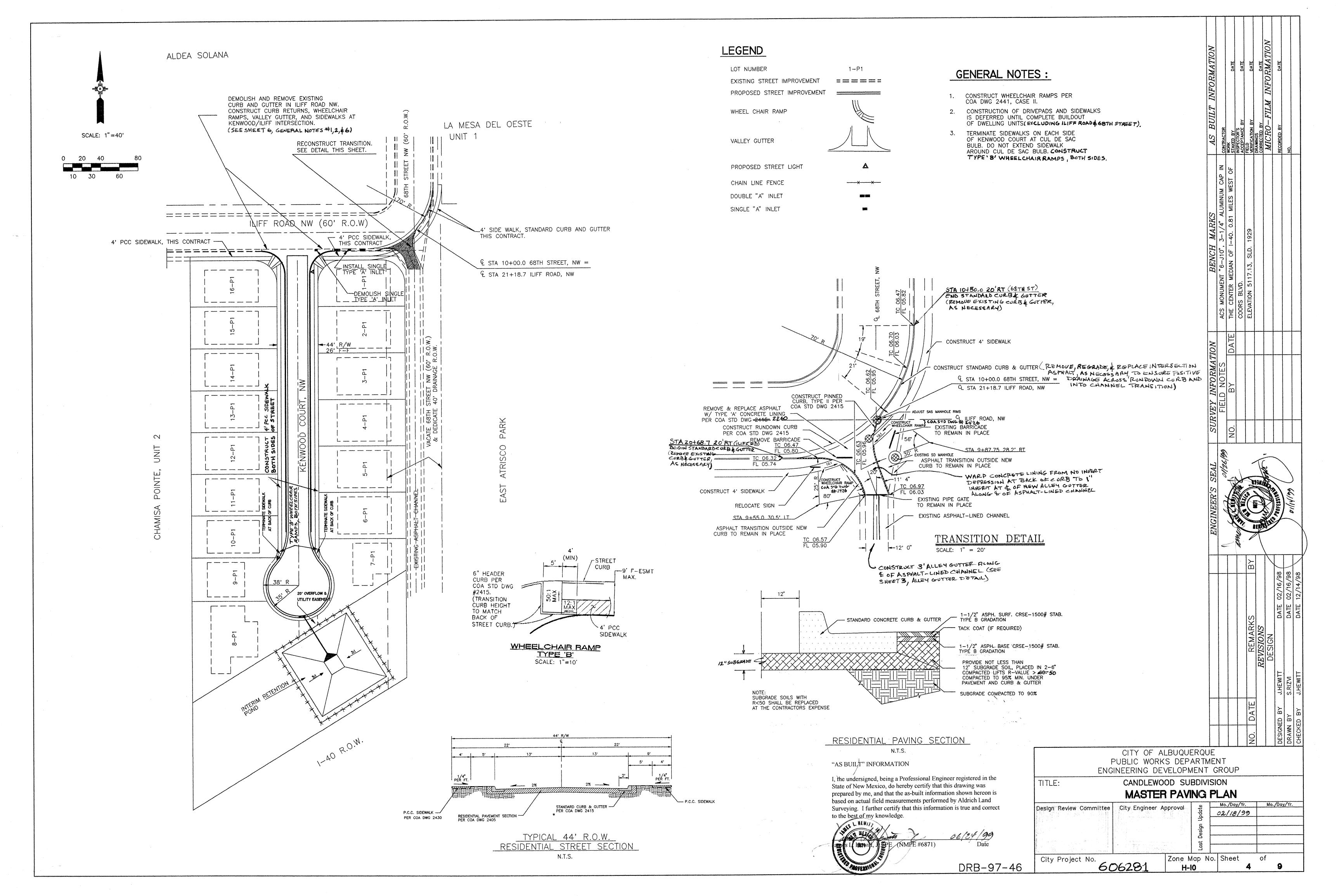


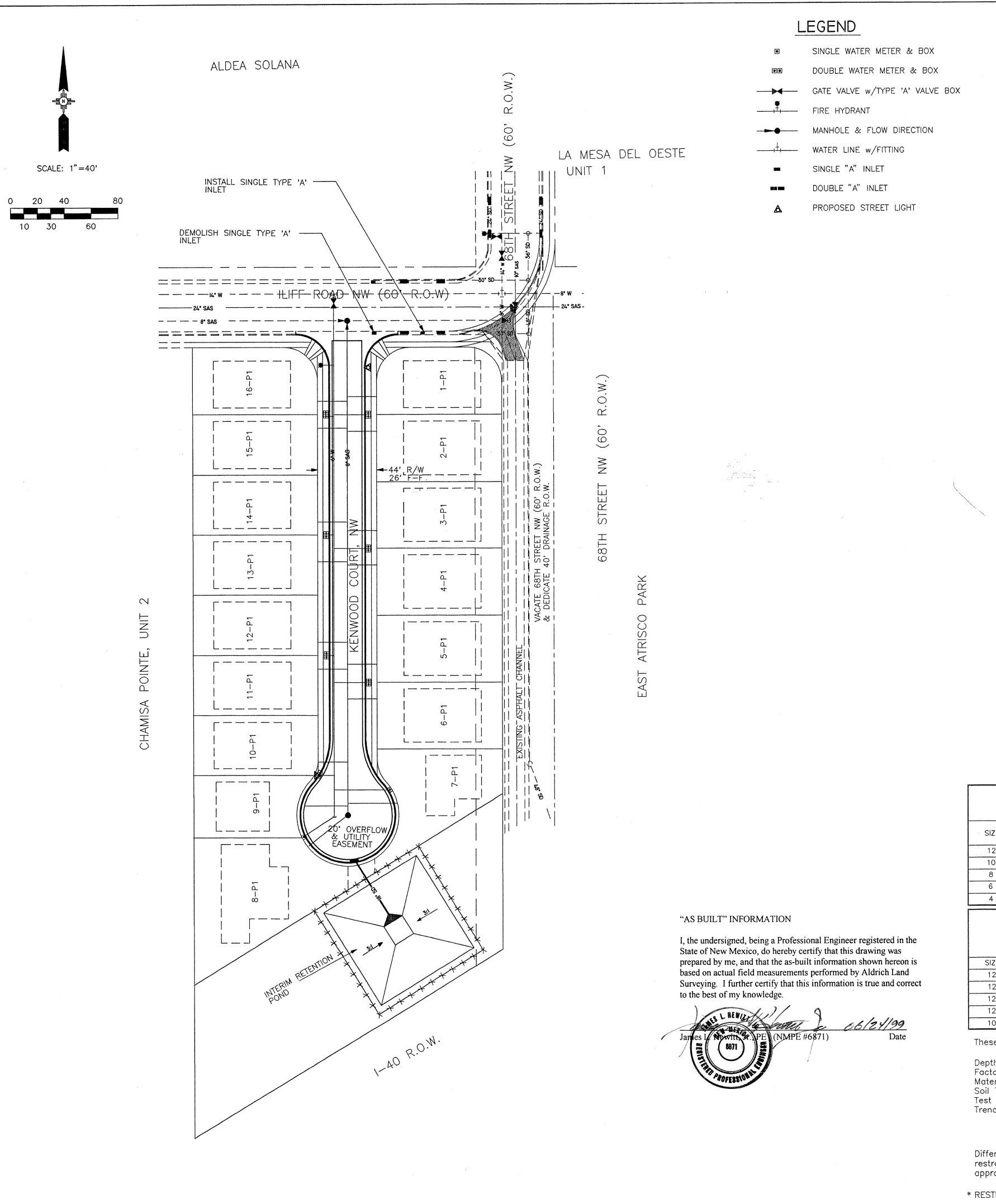
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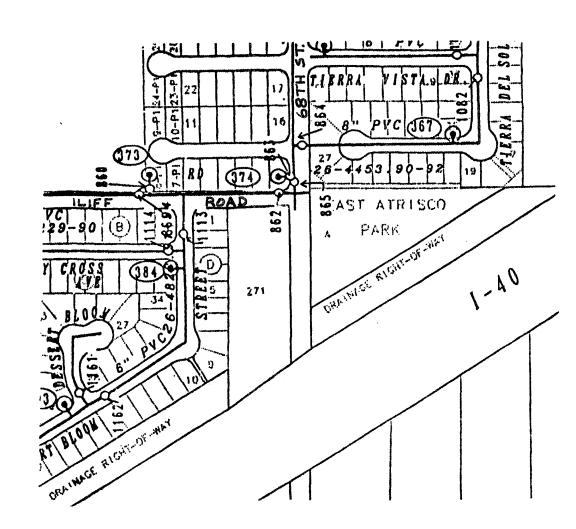
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP

TITLE:	CANDLEWOOD SUBDIVISION
	GRADING AND DRAINAGE PLA

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## SCHEMATIC MAP (H-10)

## WATER SHUT-OFF PLAN

- 1. SHUT-OFF THREE VALVES(I.E., H10-860, H10-865, AND H10-113) PER SCHEMATIC MAP
- 2. THE CONTRACTOR SHALL CONTACT WATER SYSTEMS DIVISION (857-8200) FIVE (5) WORKING DAYS PRIOR TO THE CLOSING OR OPENING OF WATER LINE VALVES.
- 3. ONLY CITY WATER SYSTEMS PERSONNEL ARE AUTHORIZED TO OPERATE VALVES.

## **GENERAL NOTES:**

CONSTRUCT CONCRETE BLOCKING FOR WATERLINE DEADEND CAPS PER COA STD DWG #2320.

	F	Restrained Joi	nt Lengths,L	*			Rest	rained Joint Ler	ngths,L,*		
		for Horizor	ntal Bends					for TEES, (ft.	)		
		and Valv	ves. (ft.)				All Joints a	t the Tee must	be restrained.		
C17E		HORIZ.	BENDS		VALVES	SIZE	MINIMUM R	UN LENGTH	MINIMUM BRANCH LENGTH		
SIZE	90,	45°	22.5*	11.25*	, AMENES	312.	Run	Branch	Run	Branch	
12	30	12	6	3	85	12x12x12	15	17	18	3	
10	26	11	5	3	72	12x12x10	10	18	13	1	
8	22	9	4	2	60	12x12x8	6	19	8	5	
6	17	7	3	2	46	12x12x6	3	19	5	1	
4	12	5	2	1	32	12x12x4 .	1	19	2	6	
				*		10x10x10	12	18	15	5	
		Restrained Jo	-	•		10x10x8"	. 8	15	10	4	
			cers, (ft.)			10×10×6	n # 4	16	6	1	
		, unobstructed 1 either large	•	-		10x10x4	2	4	3	1	
SIZE		SMALL SIDE	<del>,</del>	LARGE SIDE	SMALL SIDE .	8x8x8	9	20	13	3	
12×10	25	30	10x6	44	73	8×8×6	5	17	7	5	
12x10	45	68	10x4	58	141	8x8x4	2	15	3	7	
12x6	·		8x6	25	33	6x6x6	6	20	10	2	
1ZXO	62	121 213	8x4	43	83	6×6×4	2	20	4	7	

These tables are based upon the following criteria:

Depth of Bury Factor of Safety Material Soil Type: Test Pressure Trench Type 4:

3.0 ft. minimum

24 30 6x4 24 35

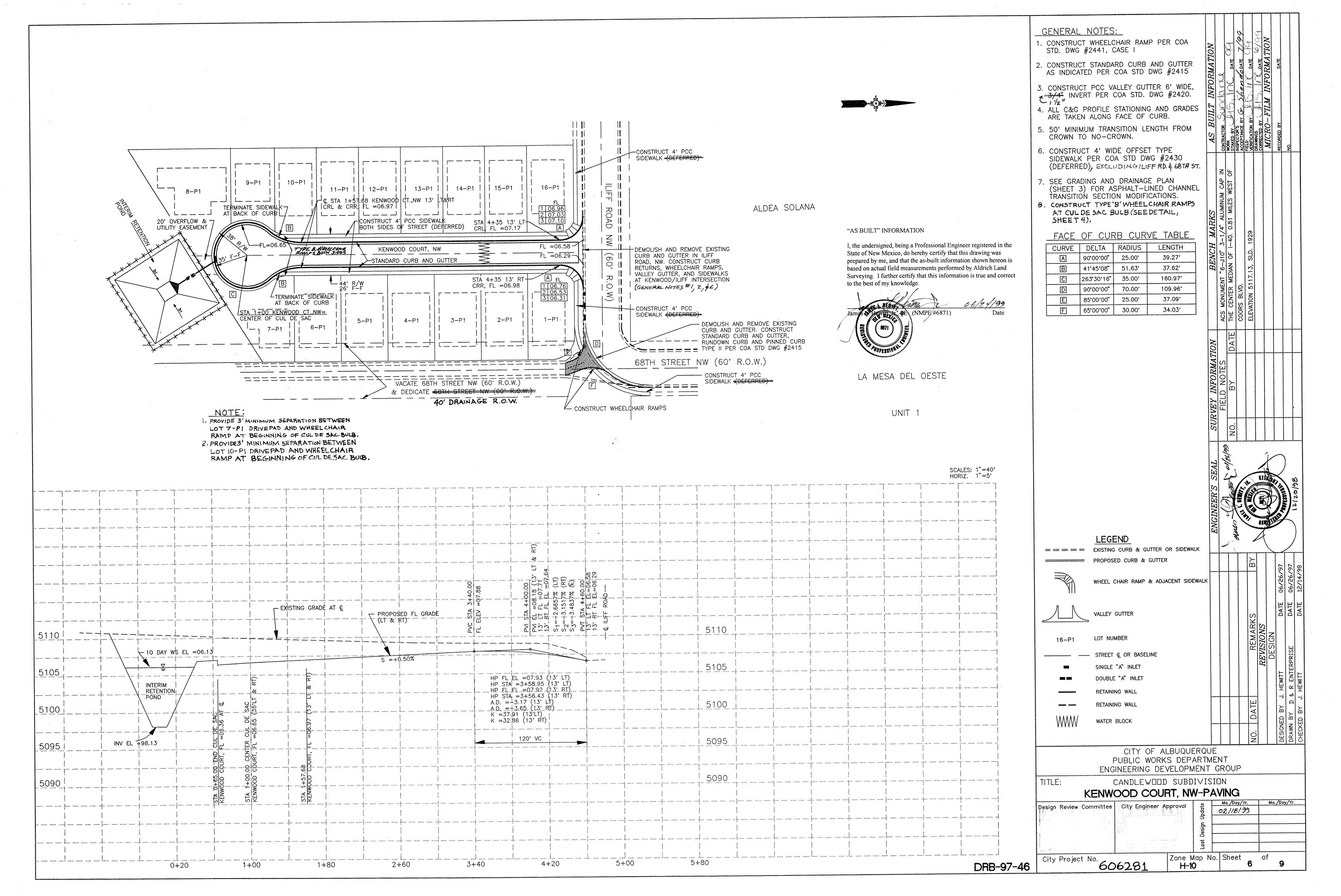
1.25
PVC Pipe
GM/SM-Silty gravels and silty sands, gravel-sand-silt mixtures. Pipe bedded in sand, gravel, or crushed stone to depth of 1/6 pipe diameter, 4 inch minimum, backfill compacted to top of pipe.

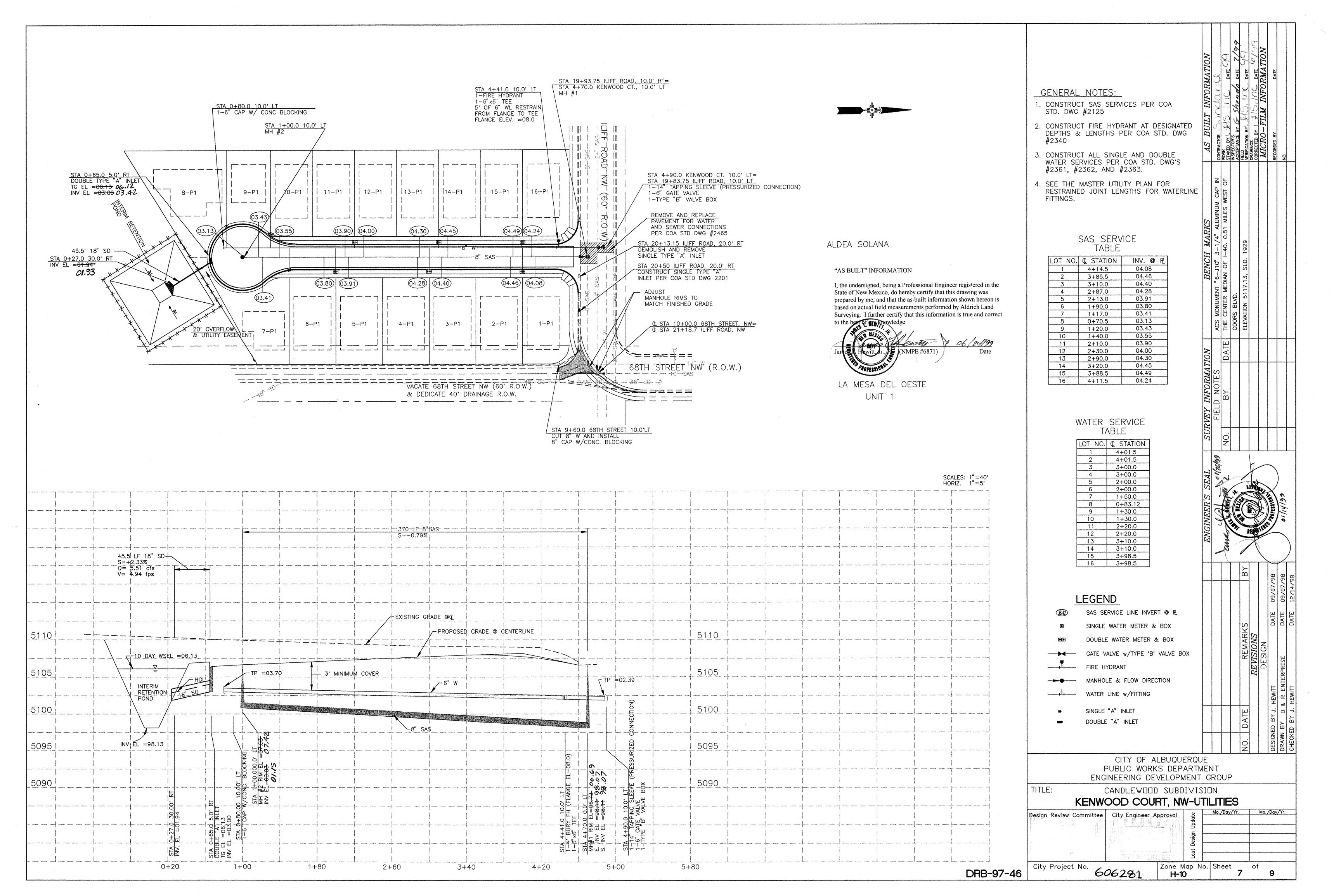
Different criteria (e.g., ductile iron pipe, greater depth of bury, etc.) will require different restrained lengths. These must be calculated by a qualified Professional Engineer and approved by the Public Works Department.

\* RESTRAINED JOINT LENGTHS REFER TO EACH WAY FROM FITTING

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	CITY OF AL	BUQUE	ERQU	E					
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ENG	INEERING DEV	VELOPM	1ENT	GRC	UP				
TITLE:	CANDLEWOOD	SUBE	DIVISIO	NC					
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Design Review Committee	City Engineer Ap	oproval	ey .	Mo.	/Day/	Yr.	Мо	o./Day	/Yr.
Design (Neview Committees		7 B	Update	021	1819	<b>3</b> 9			
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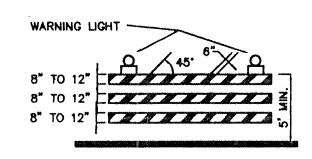


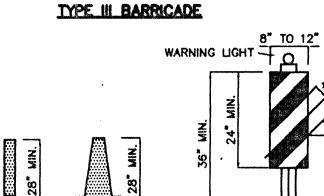


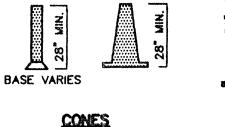
#### CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

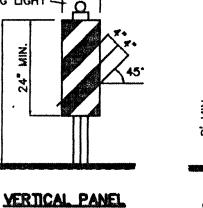
- 1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- 2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- 3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- 4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- 6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET—UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.
- 8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION.
- 9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.
- 10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.
- 11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS A 24 HOUR PER DAY BASIS UNTIL COMPLETED.
- 12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- 13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- 15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- 16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- 18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.
- 20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

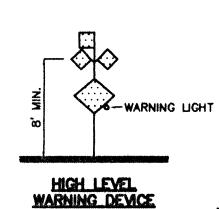
- 21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- 22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
  1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
  2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
  3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.
- 23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
- 24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.
- 25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- 26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGTH AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
- 27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.











TERMINATION AREA

#### **LEGEND**

WORK AREA

BARRICADE - TYPE II, OR BARREL

BARRICADE - TYPE III

X VERTICAL PANEL

WARNING SIGN

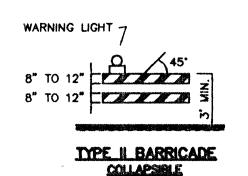
DISTANCE BETWEEN SIGNS — A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

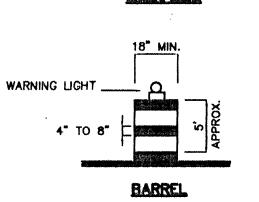
FLAGMAN POSITION

SPACING BETWEEN BARRICADES— A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET

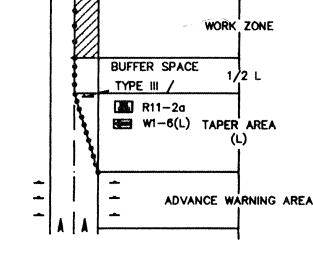
L TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.





8" TO 12"



TRAFFIC CONTROL ELEMENTS

CONSTRUCTION

G20-2

DRB-97-46

#### TAPER REQUIREMENTS

SPEED	TAP	ER LENGT (FEET)	Ή (L)	MINIMUM NUMBER	MAXIMUN SPACING	DEVICE IN FEET
(MPH)	10' LANE	11' LANE	12' LANE	OF DEVICES FOR TAPER	ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

## RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

MINIMUM DISTANCE IN FEET

MILES PER HOUR	BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

#### JAPER CRITERIA

JPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
WO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

#### TAPER LENGTH COMPUTATI

-		LIMI			-			w	
40	MPF	OR	LES	S		L	222	₩; 60	)
45	MPH	OR	GRE	EATER		L	==	W	;

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WI-1(R) 30 MPH	W1-1(L) or LESS	W1−2(R) 30 MPH or	W1-2(L) GREATER	W1-3(R)	WI-3(L) PH or LESS	W1-4(R)	W1-4(L) or GREATER	36" % W1-6(	<sup>2</sup> 4.	36" W1-6(L)	STOP AHÉAD W3-1	
₩4-2(R)	W4-2(L)	√6. W6-3	BUMP W8-1	PAVEMENT ENDS W8-3	456 V6. W8-3A	LOOSE GRAVEL W8-7	24" 35 MPH W13-1	₩12-1	W8-9a	NO OUTLET W14-2	√5° √6° · W3−1A	
ROAD CONSTRUCTION AHEAD  W20-1	DETOUR AHEAD W20-2	ROAD CLOSED AHEAD W20-3	ONE LANE ROAD AHEAD W20-4	RIGHT LANE CLOSED AHEAD W20-5(R)	LEFT LANE CLOSED ANEAD W20-5(L)	RIGHT TWO LANES CLOSED AHEAD W20-5(2R)	TWO LANES CLOSED AHEAD W20-5(2L)	CENTER LANE CLOSED AHEAD W20-5(C)	FLAÇCER AHEAD W20-7	₩20-7a	WI-4bR	WI-4bL
STOP	THELD AS	SPEED LIMIT 50	REDUCED SPEED AHEAD	REDUCED SPEED 30	24" R3-1	24* R3-2	24" NO TURNS	RIGHT LANE MUST TURN RIGHT R3-7(R)	LEFT LANE MUST TURN LEFT R3-7(L)	KEEP RIGHT R4-7b	KEEP LEFT R4-7b(L)	
30" DO NOT ENTER  R5-1	36" WRONG WAY R5−1a	36" □ [ONE_WA]	<u> 5</u> €	;-1(L)	TIME	ROAD 完 CLOSED 常	LANE CLOSED OF R11-2a	ROAD CLOSED TO THRU TRAFFIC R11-4	ENI DETO M4−8	UR		DETOUR  M4-9(L)
THRU TO A	THRU TO A	DE PARTI	ACCESS 10		L CONSTRUCTI			48 ∞ (DETOU	•	48"	60"	7

ORANGE BACKGROUND.

SPECIAL

SIGN

SIGN

SIGN

SIGN FACE DETAILS

#### CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- 2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- 3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- 4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- 6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
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- 20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

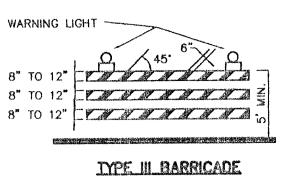
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- 26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGTH AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D. /3
- 27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.

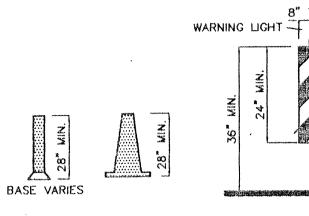
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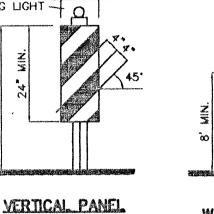
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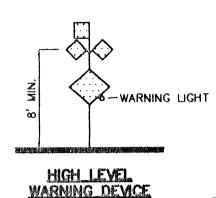
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SIGN









### LEGEND

WORK AREA BARRICADE - TYPE I, TYPE II, OR BARREL BARRICADE - TYPE III

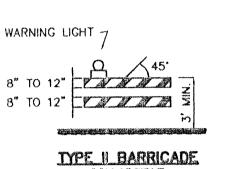
VERTICAL PANEL

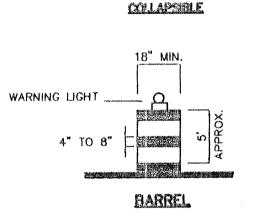
WARNING SIGN DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET FLAGMAN POSITION

SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET

TAPER LENGTH - SEE CHART BELOW

THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



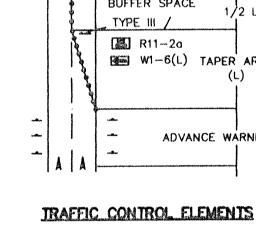


WARNING LIGHT

M4-10(R)

8" TO 12"

TYPE\_L BARRICADE COLLAPSIBLE



# TERMINATION AREA WORK ZONE BUFFER SPACE WI-6(L) TAPER AREA ADVANCE WARNING AREA

#### TAPER REQUIREMENTS

SPEED	TAP	ER LENGT (FEET)	H (L)	MINIMUM NUMBER	MAXIMUM SPACING	DEVICE IN FEET
LIMIT (MPH)	10' LANE	11' LANE	12' LANE	OF DEVICES FOR TAPER	ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

#### RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED	MINIMUM DIST	ANCE IN FEET
MILES	BETWEEN	FROM LAST
PER HOUR	SIGNS	SIGN TO TAPER
0-20	10 X SPEED LIMIT	10 X SPEED LIMIT
25-30	10 X SPEED LIMIT	10 X SPEED LIMIT
30-35	10 X SPEED LIMIT	10 X SPEED LIMIT
40-45	10 X SPEED LIMIT	10 X SPEED LIMIT
50-60	10 X SPEED LIMIT	10 X SPEED LIMIT

TYPE OF TAPER	TAPER LENGTH						
UPSTREAM TAPER:							
MERGING TAPER	L MINIMUM						
SHIFTING TAPER	1/2 L MINIMUM						
SHOULDER TAPER	1/2 L MINIMUM						
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM						
DOWNSTREAM TAPERS	100 FEET PER LANE						

#### TAPER LENGTH COMPUTATION

40 A	иРН OR	LESS	e de la composition della comp	L	<u>WS</u> <sup>2</sup>
45 A	APH OR	GREATE	<b>R</b> - 12	1 1	W×

S = POSTED SPEED OR OFF-PEAK85-PERCENTILE SPEED IN MPH

					S			N N	దే	A
	9/25/97 ADD NOTE NO. 27	9/24/97 REVISED NOTE NO. 26	9/24/97 REVISED NOTE NO.19	REVISED NOTE NO. 11	REMARKS	REVISIONS	DESIGN		C.O.A. STANDARDS	
	A 9/25/97	A 9/24/97		√   9/24.97	NO. DATE			DESIGNED BY	DRAWN BY C	CHECKED BY
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CITY OF ALBUQU PUBLIC WORKS DEPA ENGINEERING DEVELOPMENT GROUP TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS DESIGN REVIEW COMMITTEE | CITY ENGINEER, APPROVAL CINFER SHEET 🥒 MAP NO.

SIGN FACE DETAILS	
STOP AHÉAD	
W1-1(R) W1-1(L) W1-2(R) W1-2(L) W1-3(R) W1-3(L) W1-4(R) W1-4(L) W1-6(R) W1-6(L) W3-1 30 MPH or LESS 30 MPH or GREATER 30 MPH or LESS 30 MPH or GREATER	
35 NO 00TLET W3-1A W8-3 W8-3A W8-7 W13-1 W12-1 W8-9a W14-2 W3-1A	
ROAD CONSTRUCTION AHEAD AHEAD AHEAD AHEAD W20-2 W20-3 W20-4 W20-5(R) W20-5(L) W20-5(2R) W20-5(2L) W20-5(C) W20-5(C) W20-7 W20-70 W1-4bR W1-4bR	4bL
30" 36" 24" 24" 24" 24" 24" 24" 24" 24" 24" 24	
30" 36" 36" 48" 60" 24" 30" 30" 30" 30" 30" 30" 30" 30" 30" 30	
ALL CONSTRUCTION WARNING SIGNS  SHALL HAVE A BLACK LEGEND ON A  ORANGE BACKGROUND.  ACCESS  YO  SHALL HAVE A BLACK LEGEND ON A  ORANGE BACKGROUND.  ACCESS  YO  ORANGE BACKGROUND.	

G20-2