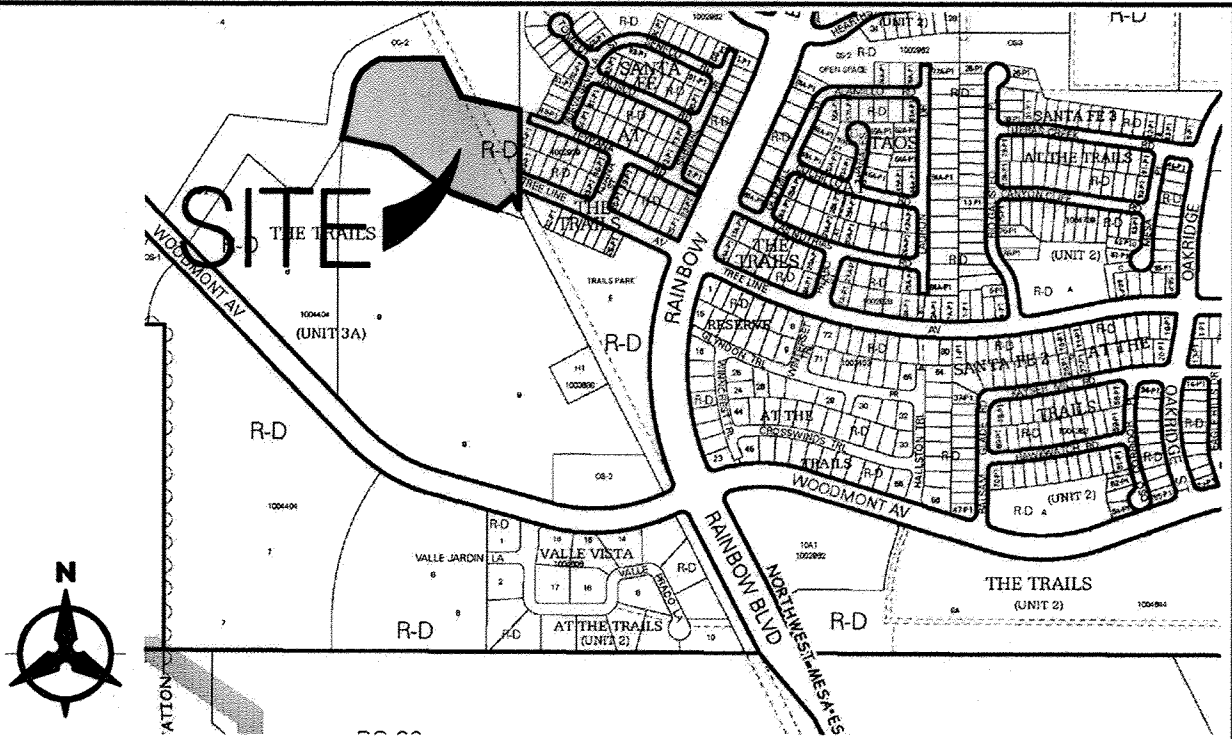


CONSTRUCTION PLANS
FOR
VALLE PRADO UNIT 3
ALBUQUERQUE, NEW MEXICO

APPROVED AS RECORD DRAWINGS
DESIGN REVIEW SECTIONS
CITY CONSTRUCTION ENGINEER
DATE: 5/14/2015



VICINITY MAP
C-09-Z

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMITS 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 #8, INCLUDING AMENDMENT 1.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (266-1990) 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. SEVEN (7) 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 (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. REFER 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 REFLECTORIZED 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 COVER 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 ABQWIA 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. THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://www.abqwa.org/Water_Shut_Off_and_Turn_on_Procedures.aspx.

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.
- ☒ 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 NO. DESCRIPTION

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2 PRELIMINARY PLAT

3 OVERALL GRADING PLAN

4 OVERALL PAVING PLAN

5 - 6 PAVING PLAN AND PROFILE SHEETS

7 OVERALL UTILITY PLAN

8 - 9 UTILITY PLAN AND PROFILE SHEETS

10 MISCELLANEOUS PAVING DETAILS

11 MISCELLANEOUS UTILITY DETAILS

12 - 14 HIGH PERFORMANCE POLYPROPYLENE STORM DRAIN PIPE SUPPLEMENTAL SPECIFICATIONS

PAVING PLANS

SHEET NO. DESCRIPTION

5 TWO ROCK ROAD & LONGWALK STREET

6 TREE LINE AVENUE

UTILITY PLANS

SHEET NO. DESCRIPTION

8 TWO ROCK ROAD & LONGWALK STREET

9 TREE LINE AVENUE

SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
11/16/2015



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Jeff M. Boyd of the firm Western Technologies, 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 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 Russ P. Hugg of the firm Surv-Tek, Inc.
NMPS 9750.
Jeff M. Boyd P.E.
NMPE #12412 Date

Jeff M. Boyd
12412

DRB #1004404

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, CONTRACTOR 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 HAIL 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 AND PLACED BY THE CONTRACTOR PER PLAN.

11. THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE, QMD CONSTRUCTION COORDINATION DIVISION, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.
12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), U.S. DEPARTMENT OF TRANSPORTATION, LATEST EDITION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING AND MAINTAINING CONSTRUCTION SIGNAGE UNTIL THE PROJECT HAS BEEN ACCEPTED BY THE CITY OF ALBUQUERQUE. 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. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, SIGNAGE, 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.

16. AN SD 19 PERMIT IS REQUIRED TO PLACE ANY MATERIAL ON OR AROUND A STORM DRAIN INLET IN THE CITY RIGHT-OF-WAY THAT WOULD INTERFERE WITH THE INLET RECEIVING STORM WATER PER THE ENGINEER'S DESIGN. CITY PERSONNEL MAY REMOVE THIS MATERIAL AT ANY TIME WITHOUT NOTICE. THE PREFERRED BMP IS TO REMOVE SEDIMENT/POLLUTANTS ON THE PROPERTY WHERE CONSTRUCTION ACTIVITY IS OCCURRING.
17. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
18. CONTRACTOR MAY ENCOUNTER AN EXISTING BASALT SURFACE WHEN INSTALLING UNDER GROUND UTILITIES.

Bohannon & Huston
www.bhinc.com 800.877.5332

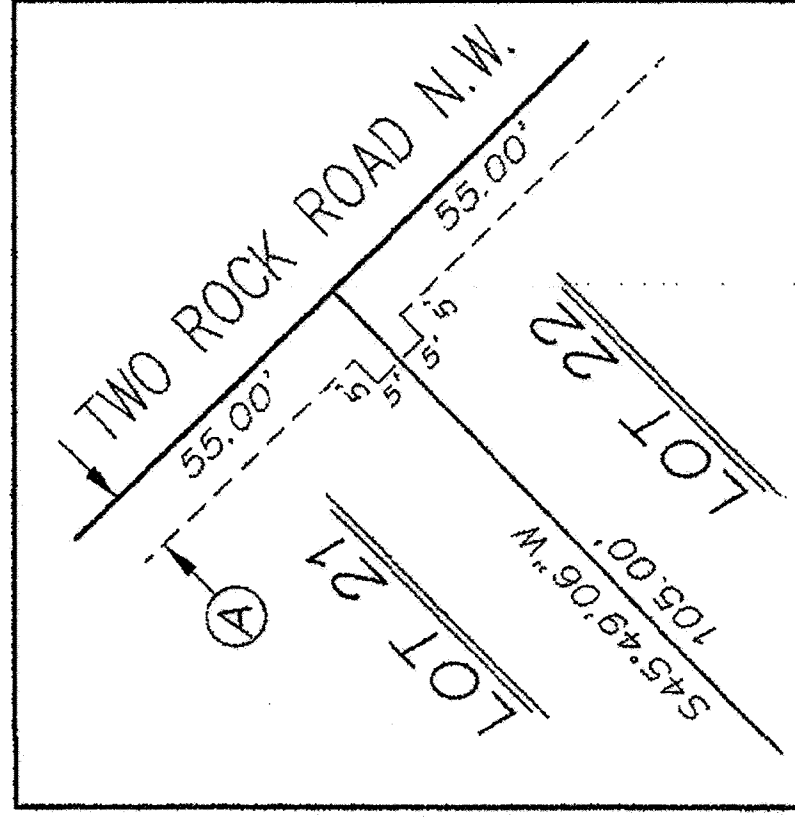
REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEERS STAMP & SIGNATURE		APPROVALS		ENGINEER		DATE	
		DRC Chairman	9/14/15	APPROVED FOR CONSTRUCTION			
		Transportation	6-17-15				
		Water/Wastewater	6-17-15				
		Hydrology	6-17-15				
		Parks					
Const. Coord.							
City Project No.				740583		Sheet 1 Of 14	

FLAT OF
VALLE PRADO UNIT 3
(BEING A REPLAT OF TRACT F, VALLE PRADO UNIT 1
AND TRACT A, VALLE PRADO UNIT 2)
WITHIN
THE TOWN OF ALAMEDA GRANT
IN
PROJECTED SECTION 16, TOWNSHIP 11 NORTH, RANGE 2 EAST
NEW MEXICO PRINCIPAL MERIDIAN
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
NOVEMBER, 2015

LINE	LENGTH	BEARING
L1	60.99'	N27°16'08"W
L2	120.42'	S48°22'25"W
L3	50.60'	N48°18'15"W
L4	12.24'	N44°10'54"W
L5	152.00'	S45°49'08"W
L6	80.00'	S45°49'08"W
L7	47.00'	S45°49'08"W
L8	47.00'	S45°49'08"W
L9	67.71'	S44°10'54"E
L10	102.00'	S40°32'02"W
L11	47.00'	S41°31'15"W
L12	49.26'	S34°40'53"W
L13	67.26'	N32°26'33"E
L14	53.11'	N31°14'55"E
L15	50.59'	N29°02'47"E
L16	33.00'	N24°52'37"E
L17	41.25'	N25°49'06"E
L18	2.00'	S77°48'14"E
L19	28.42'	S70°03'12"E
L20	55.32'	S77°11'46"E
L21	53.11'	N32°26'33"E
L22	47.00'	S27°08'22"E
L23	23.50'	N19°56'43"E
L24	23.50'	N45°49'06"E
L25	55.32'	N89°01'47"E
L26	41.25'	N89°01'47"E
L27	53.11'	N32°26'33"E
L28	23.50'	S48°18'15"E
L29	23.50'	S48°18'15"E
L30	69.73'	N19°56'43"E
L31	36.21'	N02°02'47"E
L32	36.16'	N02°05'47"E
L33	46.01'	S27°16'32"E
L34	46.01'	S27°16'32"E
L35	46.01'	S89°01'47"W
L36	32.22'	N32°26'33"E
L37	17.31'	S89°01'47"W
L38	28.44'	S12°17'46"W
L39	11.84'	S12°17'46"W
L40	41.25'	S12°17'46"W
L41	23.50'	S37°08'22"E
L42	18.81'	N15°59'30"E
L43	23.50'	S37°08'22"E
L44	25.90'	S27°16'30"E

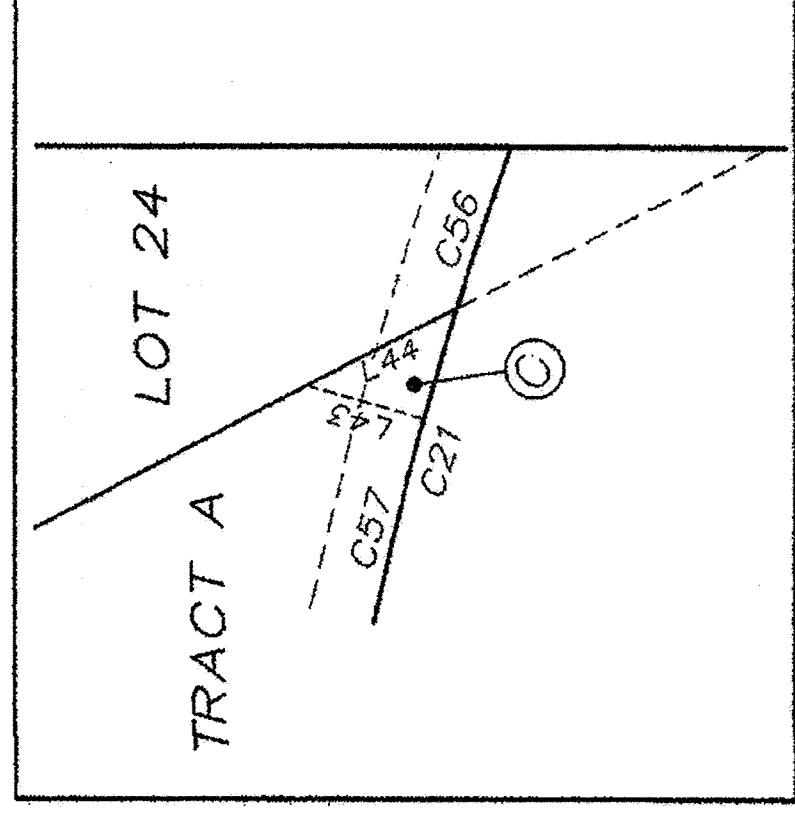
CURVE	LENGTH	RADIUS	TANGENT	CHORD	CHORD BEARING	DELTA
C1	35.98'	324.50'	18.92'	36.00'	N18°21'58"W	18°21'58"
C2	35.98'	324.50'	18.92'	36.00'	S72°12'36"W	104°31'52"
C3	45.61'	25.00'	32.31'	38.54'	N49°51'10"W	11°20'31"
C4	64.63'	326.50'	32.42'	64.63'	N89°10'54"W	90°00'00"
C5	39.27'	25.00'	25.00'	35.36'	S00°49'08"W	90°00'00"
C6	39.27'	25.00'	25.00'	35.36'	S00°49'08"W	90°00'00"
C7	39.27'	25.00'	25.00'	35.36'	N89°10'54"W	90°00'00"
C8	39.27'	25.00'	25.00'	35.36'	N89°10'54"W	90°00'00"
C9	39.27'	25.00'	25.00'	35.36'	N49°51'10"W	0°50'06"
C10	39.27'	25.00'	25.00'	35.36'	S00°49'08"E	83°00'38"
C11	50.66'	30.00'	33.76'	44.85'	S81°03'24"W	98°45'03"
C12	49.83'	651.00'	24.93'	49.83'	N46°22'29"W	4°23'10"
C13	134.40'	180.00'	70.50'	131.30'	S48°38'53"E	42°48'47"
C14	131.15'	180.00'	68.64'	128.27'	S48°20'52"E	41°41'53"
C15	131.15'	180.00'	68.64'	128.27'	S48°20'52"E	41°41'53"
C16	83.36'	25.00'	46.89'	79.15'	N49°02'21"W	63°44'43"
C17	100.59'	25.00'	59.48'	93.21'	S00°36'42"W	76°50'01"
C18	215.63'	120.00'	150.75'	187.77'	S84°20'22"W	102°57'27"
C19	148.89'	120.00'	85.74'	139.59'	S88°21'22"W	71°05'27"
C20	66.74'	120.00'	34.26'	65.88'	N60°09'55"W	51°53'01"
C21	76.37'	608.50'	38.24'	76.37'	N74°07'44"W	71°05'27"
C22	173.41'	143.50'	121.23'	131.00'	S84°20'22"W	102°57'27"
C23	39.00'	143.50'	18.62'	39.34'	S21°34'10"E	71°05'27"
C24	108.50'	68.50'	61.19'	103.85'	S80°36'42"W	76°50'01"
C25	132.09'	68.50'	81.19'	103.85'	N69°07'21"W	63°41'43"
C26	32.54'	25.00'	19.04'	30.29'	S50°36'42"E	76°50'01"
C27	135.01'	143.50'	72.97'	130.09'	N49°28'55"E	74°34'21"
C28	173.41'	143.50'	121.23'	131.00'	S84°20'22"W	102°57'27"
C29	39.00'	143.50'	18.62'	39.34'	S21°34'10"E	71°05'27"
C30	69.06'	51.80'	40.84'	64.00'	S80°36'42"W	76°50'01"
C31	57.74'	373.50'	9.31'	18.99'	S28°52'35"E	51°41'31"
C32	57.26'	51.80'	31.99'	54.35'	N50°11'39"W	12°01'29"
C33	105.46'	203.50'	53.94'	104.28'	S42°07'16"E	28°41'32"
C34	33.56'	25.00'	18.65'	31.10'	N18°30'39"W	76°54'45"
C35	39.63'	25.00'	23.36'	35.61'	S65°21'07"W	80°42'01"
C36	39.63'	25.00'	23.36'	35.61'	S65°21'07"W	80°42'01"
C37	28.72'	855.06'	16.40'	28.67'	S65°21'43"E	61°12'39"
C38	32.99'	855.06'	16.50'	32.99'	S65°04'35"E	21°12'39"
C39	57.74'	373.50'	20.43'	40.79'	N53°36'51"W	61°51'27"
C40	40.81'	373.50'	20.43'	40.79'	S49°28'55"E	11°05'00"
C41	63.16'	326.50'	31.68'	63.06'	S49°28'55"E	11°05'00"
C42	35.97'	203.50'	18.62'	36.00'	S30°44'32"E	14°22'38"
C43	35.97'	203.50'	18.62'	36.00'	S30°44'32"E	14°22'38"
C44	1.47'	326.50'	0.74'	1.47'	S44°16'40"E	01°41'31"
C45	18.60'	203.50'	9.31'	18.99'	N50°11'39"W	12°01'29"
C46	30.12'	143.50'	15.11'	30.06'	N57°59'11"W	33°31'33"
C47	8.91'	143.50'	4.46'	8.91'	S36°33'24"E	18°34'08"
C48	50.72'	156.50'	25.58'	50.59'	N49°28'55"W	30°39'10"
C49	52.70'	98.50'	27.00'	52.07'	N49°28'55"W	30°39'10"
C50	52.70'	98.50'	27.00'	52.07'	S77°48'32"W	22°26'31"
C51	38.58'	48.50'	19.54'	38.34'	S51°27'00"W	30°16'32"
C52	52.03'	98.50'	26.65'	51.44'	S24°15'15"W	24°08'58"
C53	41.46'	98.50'	21.04'	41.15'	S36°48'46"W	7°52'15"
C54	13.31'	98.50'	6.67'	13.30'	S98°47'30"W	93°03'12"
C55	160.09'	96.50'	105.41'	142.36'	N25°21'43"W	4°41'48"
C56	48.96'	605.50'	25.00'	49.95'	S67°56'59"E	24°12'39"
C57	48.96'	605.50'	25.00'	49.95'	N82°04'43"W	17°47'00"
C58	66.13'	156.50'	33.57'	65.64'	S67°56'59"E	3°57'11"
C59	54.02'	855.06'	27.02'	54.01'	N82°04'43"W	17°47'00"
C60	30.57'	98.50'	15.41'	30.45'	S67°56'59"E	02°22'56"
C61	5.70'	855.06'	2.85'	5.70'	S67°56'59"E	02°22'56"

DETAIL A

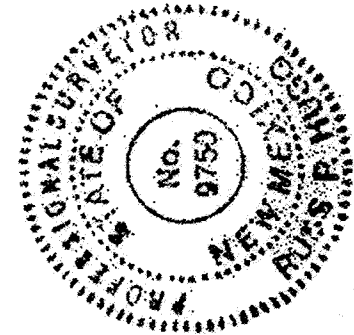


TYPICAL EASEMENT DETAIL AT LOT LINES

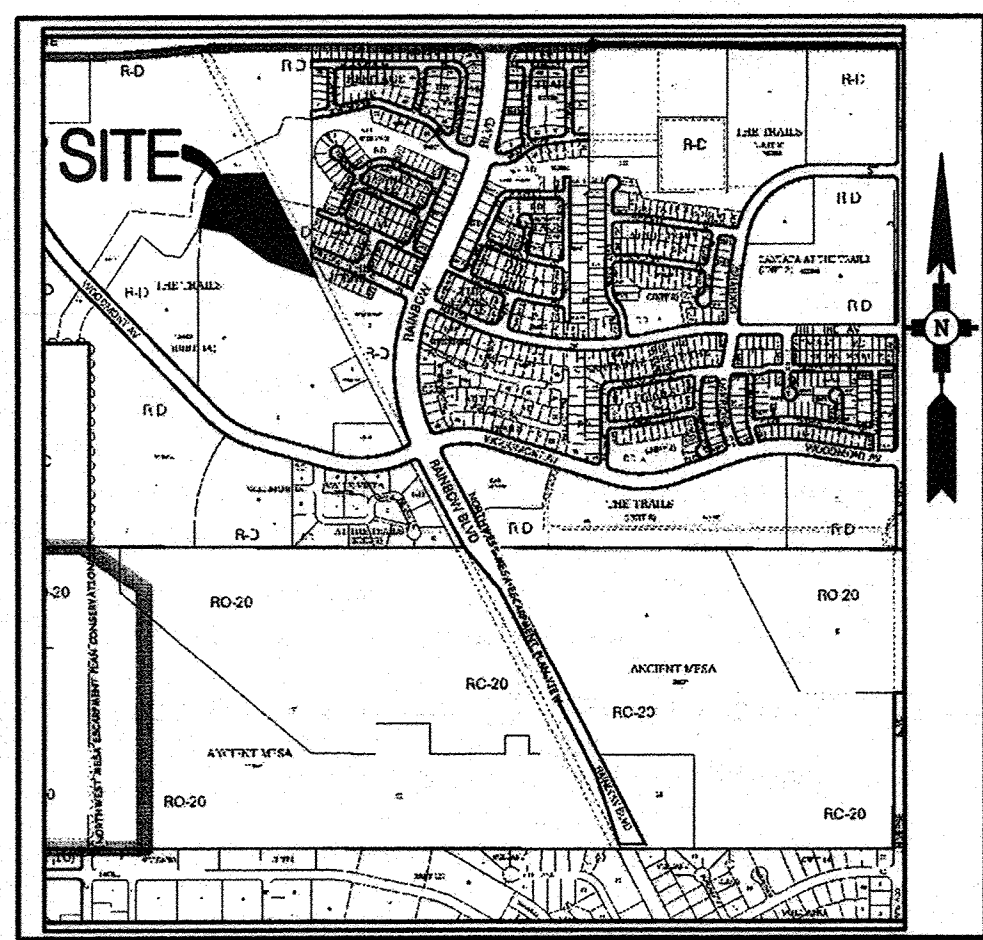
DETAIL C



PRIVATE ACCESS EASEMENT



Doc# 2015104072
RAYMOND E. B. 2015, 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026, 2027, 2028, 2029, 2030, 2031, 2032, 2033, 2034, 2035, 2036, 2037, 2038, 2039, 2040, 2041, 2042, 2043, 2044, 2045, 2046, 2047, 2048, 2049, 2050, 2051, 2052, 2053, 2054, 2055, 2056, 2057, 2058, 2059, 2060, 2061, 2062, 2063, 2064, 2065, 2066, 2067, 2068, 2069, 2070, 2071, 2072, 2073, 2074, 2075, 2076, 2077, 2078, 2079, 2080, 2081, 2082, 2083, 2084, 2085, 2086, 2087, 2088, 2089, 2090, 2091, 2092, 2093, 2094, 2095, 2096, 2097, 2098, 2099, 2100, 2101, 2102, 2103, 2104, 2105, 2106, 2107, 2108, 2109, 2110, 2111, 2112, 2113, 2114, 2115, 2116, 2117, 2118, 2119, 2120, 2121, 2122, 2123, 2124, 2125, 2126, 2127, 2128, 2129, 2130, 2131, 2132, 2133, 2134, 2135, 2136, 2137, 2138, 2139, 2140, 2141, 2142, 2143, 2144, 2145, 2146, 2147, 2148, 2149, 2150, 2151, 2152, 2153, 2154, 2155, 2156, 2157, 2158, 2159, 2160, 2161, 2162, 2163, 2164, 2165, 2166, 2167, 2168, 2169, 2170, 2171, 2172, 2173, 2174, 2175, 2176, 2177, 2178, 2179, 2180, 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2347, 2348, 2349, 2350, 2351, 2352, 2353, 2354, 2355, 2356, 2357, 2358, 2359, 2360, 2361, 2362, 2363, 2364, 2365, 2366, 2367, 2368, 2369, 2370, 2371, 2372, 2373, 2374, 2375, 2376, 2377, 2378, 2379, 2380, 2381, 2382, 2383, 2384, 2385, 2386, 2387, 2388, 2389, 2390, 2391, 2392, 2393, 2394, 2395, 2396, 2397, 2398, 2399, 2400, 2401, 2402, 2403, 2404, 2405, 2406, 2407, 2408, 2409, 2410, 2411, 2412, 2413, 2414, 2415, 2416, 2417, 2418, 2419, 2420, 2421, 2422, 2423, 2424, 2425, 2426, 2427, 2428, 2429, 2430, 2431, 2432, 2433, 2434, 2435, 2436, 2437, 2438, 2439, 2440, 2441, 2442, 2443, 2444, 2445, 2446, 2447, 2448, 2449, 2450, 2451, 2452, 2453, 2454, 2455, 2456, 2457, 2458, 2459, 2460, 2461, 2462, 2463, 2464, 2465, 2466, 2467, 2468, 2469, 2470, 2471, 2472, 2473, 2474, 2475, 2476, 2477, 2478, 2479, 2480, 2481, 2482, 2483, 2484, 2485, 2486, 2487, 2488, 2489, 2490, 2491, 2492, 2493, 2494, 2495, 2496, 2497, 2498, 2499, 2500, 2501, 2502, 2503, 2504, 2505, 2506, 2507, 2508, 2509, 2510, 2511, 2512, 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2679, 2680, 2681, 2682, 2683, 2684, 2685, 2686, 2687, 2688, 2689, 2690, 2691, 2692, 2693, 2694, 2695, 2696, 2697, 2698, 2699, 2700, 2701, 2702, 2703, 2704, 2705, 2706, 2707, 2708, 2709, 2710, 2711, 2712, 2713, 2714, 2715, 2716, 2717, 2718, 2719, 2720, 2721, 2722, 2723, 2724, 2725, 2726, 2727, 2728, 2729, 2730, 2731, 2732, 2733, 2734, 2735, 2736, 2737, 2738, 2739, 2740, 2741, 2742, 2743, 2744, 2745, 2746, 2747, 2748, 2749, 2750, 2751, 2752, 2753, 2754, 2755, 2756, 2757, 2758, 2759, 2760, 2761, 2762, 2763, 2764, 2765, 2766, 2767, 2768, 2769, 2770, 2771, 2772, 2773, 2774, 2775, 2776, 2777, 2778, 2779, 2780, 2781, 2782, 2783, 2784, 2785, 2786, 2787, 2788, 2789, 2790, 2791, 2792, 2793, 2794, 2795, 2796, 2797, 2798, 2799, 2800, 2801, 2802, 2803, 2804, 2805, 2806, 2807, 2808, 2809, 2810, 2811, 2812, 2813, 2814, 2815, 2816, 2817, 2818, 2819, 2820, 2821, 2822, 2823, 2824, 2825, 2826, 2827, 2828, 2829, 2830, 2831, 2832, 2833, 2834, 2835, 2836, 2837, 2838, 2839, 2840, 2841, 2842, 2843, 2844, 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NOT TO SCALE VICINITY MAP ZONE ATLAS C-09-Z

KEYED NOTES

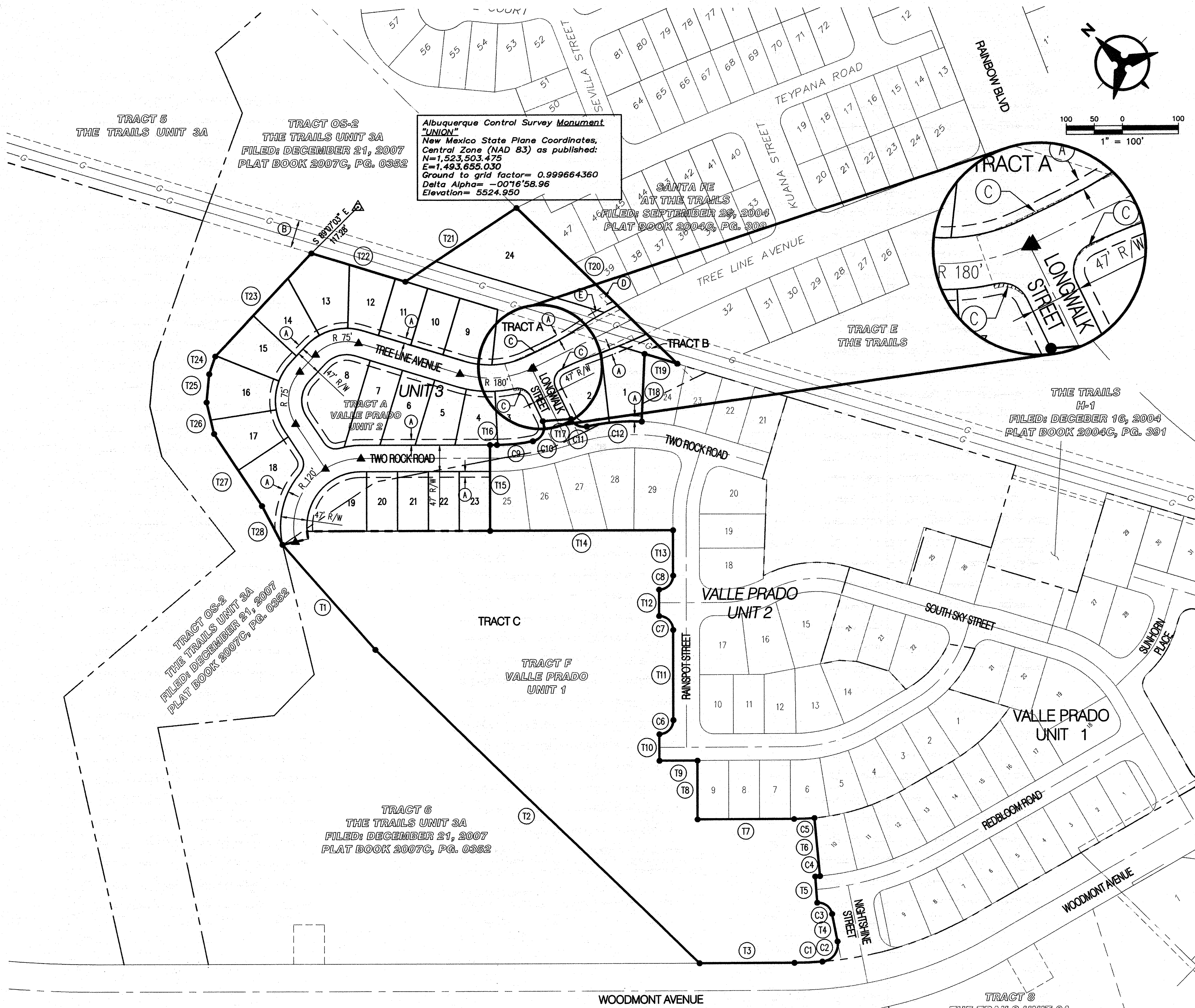
- 10' PUBLIC UTILITY EASEMENT, GRANTED BY THIS PLAT.
- EXISTING 50' SOUTHERN UNION GAS COMPANY RIGHT OF WAY EASEMENT FILED SEPTEMBER 16, 1930 IN BOOK 112, PAGE 515 AND FILED MARCH 29, 1956 IN BOOK D346, PAGE 356 AS DOCUMENT NO. 90568 AND N.M. STATE LAND OFFICE DEED OF RIGHT OF WAY AND EASEMENT NO. 646, DATED OCTOBER 3, 1930.
- EXISTING PUBLIC ROADWAY EASEMENT GRANTED TO THE CITY OF ALBUQUERQUE BY PLAT FILED DECEMBER 21, 2007 IN PLAT BOOK 2007C, PAGE 352. A PORTION TO BE VACATED WITH THIS PLAT.
- EXISTING 10'X 20' QWEST UNDERGROUND UTILITY EASEMENT GRANTED BY PLAT FILED MARCH 16, 2006 IN BOOK 2006C, PAGE 85.
- PRIVATE ACCESS EASEMENT FOR THE USE AND BENEFIT OF LOT 24 GRANTED WITH THIS PLAT.

ID	ARC	RADIUS	DELTA	TANGENT
C1	49.83'	651.00'	04°23'10"	24.93'
C2	50.66'	30.00'	96°45'03"	33.76'
C3	36.29'	25.00'	83°09'38"	22.18'
C4	8.58'	499.00'	00°59'06"	4.29'
C5	36.33'	394.00'	05°16'57"	18.18'
C6	39.27'	25.00'	90°00'00"	25.00'
C7	39.27'	25.00'	90°00'00"	25.00'
C8	39.27'	25.00'	90°00'00"	25.00'
C9	64.63'	326.50'	11°20'31"	32.42'
C10	45.61'	25.00'	104°31'52"	32.31'
C11	33.46'	25.00'	76°41'22"	19.78'
C12	98.55'	373.50'	15°07'05"	49.56'

ID	BEARING	LENGTH	ID	BEARING	LENGTH
T1	S04°25'48"W	249.53'	T15	N45°49'06"E	152.00'
T2	S00°00'00"E	803.67'	T16	S44°10'54"E	12.24'
T3	S44°10'54"E	169.01'	T17	S48°19'15"E	50.60'
T4	N34°40'53"E	49.76'	T18	N48°22'25"E	120.42'
T5	N41°31'15"E	47.00'	T19	S27°16'28"E	60.99'
T6	N40°32'09"E	105.00'	T20	N00°05'44"E	399.19'
T7	N44°10'54"W	172.00'	T21	N77°45'21"W	237.91'
T8	N45°49'06"E	105.00'	T22	N27°16'30"W	174.90'
T9	N44°10'54"W	67.71'	T23	S89°01'47"W	250.90'
T10	N45°49'06"E	47.00'	T24	S64°57'37"W	33.00'
T11	N45°49'06"E	160.00'	T25	S51°14'55"W	50.59'
T12	N45°49'06"E	47.00'	T26	S32°26'33"W	57.66'
T13	N45°49'06"E	80.00'	T27	S12°11'46"W	153.58'
T14	N44°10'54"W	325.79'	T28	S17°42'46"W	77.52'

LEGEND	
—	SUBDIVISION BOUNDARY LINE
- - -	TRACT BOUNDARY
—	NEW LOT LINE
—	ADJOINING PROPERTY LINE
▲	CENTERLINE MONUMENT TO BE INSTALLED
△	CITY OF ALBUQUERQUE SURVEY CONTROL MONUMENT

P:\20150013\CDP\Plans\General\Pre-Plat\Unit 3\20150013_U3_PRE-PLAT.dwg
October 21, 2014 - 1:36pm



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Jeff M. Boyd of the firm Western Technologies, 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 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 Russ P. Huggs of the firm Surv-Tek, Inc., NMPS 9750.
Jeff M. Boyd P.E., NMPE #12412
Date: January 28, 2016

TRACT 7
THE TRAILS UNIT 3A
FILED: DECEMBER 21, 2007
PLAT BOOK 2007C, PG. 0352

TRACT 8
THE TRAILS UNIT 3A
FILED: DECEMBER 21, 2007
PLAT BOOK 2007C, PG. 0352

PRELIMINARY PLAT FOR VALLE PRADO UNIT 3 at the TRAILS UNIT 3A BEING A REPLAT OF TRACT F, VALLE PRADO UNIT 1 AND TRACT A, VALLE PRADO UNIT 2 NOVEMBER, 2014

LEGAL DESCRIPTION

Tract F, Valle Prado Unit 1 City of Albuquerque, Bernalillo County, New Mexico, as the same is shown and designated on the plat entitled "SUBDIVISION PLAT OF VALLE PRADO UNIT 1 (LOTS 1-32 & TRACTS A-F & OS-3A), CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO", filed in the office of the County Clerk of Bernalillo County, New Mexico, on _____, in Plat Book _____, Page _____, as Document No. _____, and Tract A, Valle Prado Unit 2 City of Albuquerque, Bernalillo County, New Mexico, as the same is shown and designated on the plat entitled "SUBDIVISION PLAT OF VALLE PRADO UNIT 2 (LOTS 1-29 & TRACT A), CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO", filed in the office of the County Clerk of Bernalillo County, New Mexico, on _____, in Plat Book _____, Page _____, as Document No. _____.

GENERAL NOTES

- EXISTING ZONING: SU-2, VTL, VOLCANO TRAILS/SUBURBAN RESIDENTIAL SMALL LOT
PROPOSED ZONING: SU-2, VTL, VOLCANO TRAILS/SUBURBAN RESIDENTIAL SMALL LOT
- PROPOSED ACREAGE: 14.50 AC
NUMBER OF LOTS: 24
PROPOSED DENSITY: 1.66 DU/AC
- MIN. LOT DIMENSIONS: 55' X 105'
MINIMUM LOT AREA: 5,775 SQFT
- SEWER AND WATER ARE PUBLIC TO BE OWNED AND MAINTAINED BY THE ALBUQUERQUE BERNALILLO COUNTY WATER UTILITY AUTHORITY. STREET AND STORM DRAIN IMPROVEMENTS ARE PUBLIC TO BE OWNED AND MAINTAINED BY THE CITY OF ALBUQUERQUE.
- LOT SETBACKS SHALL CONFORM TO THE VOLCANO TRAILS SECTOR DEVELOPMENT PLAN.
- WOODMONT AVENUE IMPROVEMENTS ACROSS TRACT C FRONTAGE FINANCIALLY GUARANTEED WITH VALLE PRADO UNIT 1.

SITE DATA

ZONE ATLAS NO.	C-09-Z
ZONING	SU-2, VTL
MILES OF FULL WIDTH STREETS CREATED	0.28 MILES
NO. OF EXISTING TRACTS	2
NO. OF LOTS CREATED	24
NO. OF HOA TRACTS CREATED	2
NO. OF REMAINDER TRACTS CREATED	1

SURVEY NOTES:

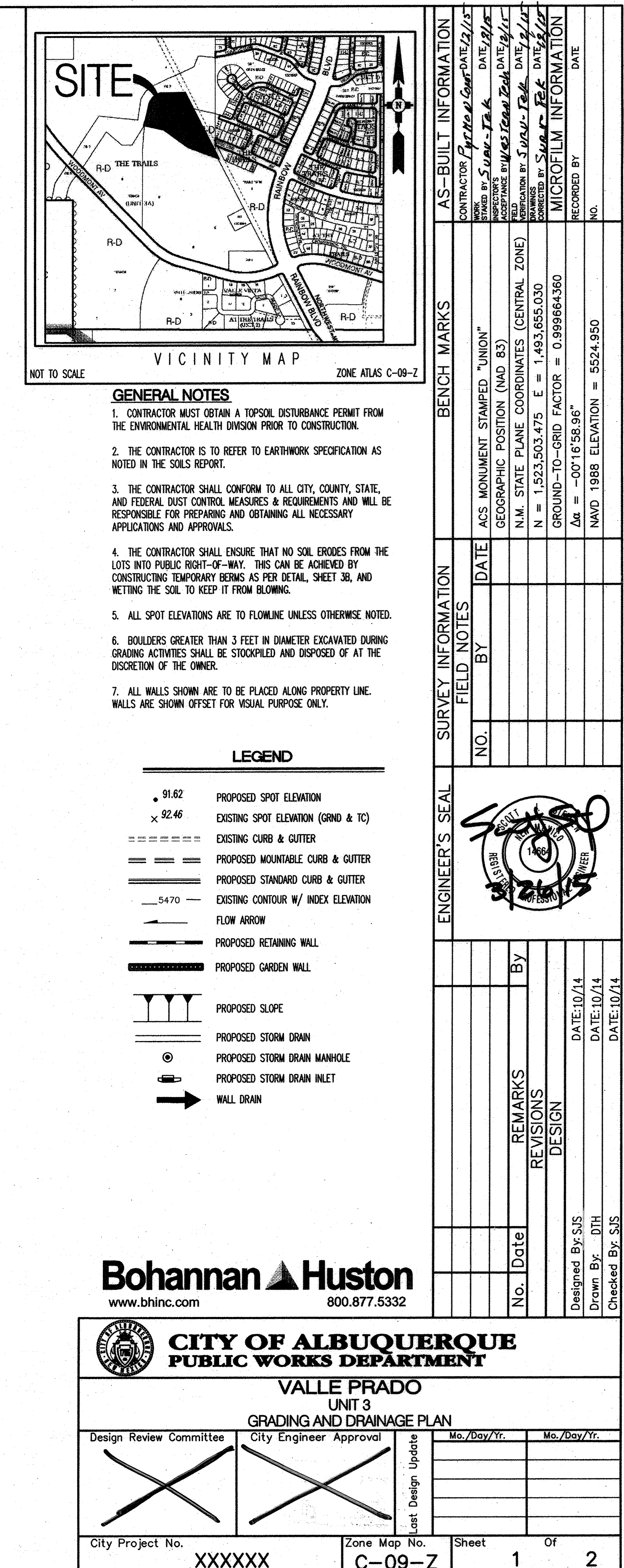
- ALL BOUNDARY CORNERS SHOWN (●) ARE FOUND REBAR W/CAP.
- ALL STREET CENTERLINE MONUMENTATION SHALL BE INSTALLED AT ALL CENTERLINE P.C.'S, P.T.'S, ANGLE POINTS, AND STREET INTERSECTIONS AND SHOWN THIS (▲) AND WILL BE MARKED BY (4") ALUMINUM CAP STAMPED "CITY OF ALBUQUERQUE CENTERLINE MONUMENTATION MARKED, DO NOT DISTURB PLS 9750".
- THE SUBDIVISION BOUNDARY WILL BE TIED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM AS SHOWN.
- BASIS OF BEARINGS WILL BE NEW MEXICO STATE PLANE BEARINGS.
- DISTANCES SHALL BE GROUND DISTANCES.
- MANHOLES WILL BE OFFSET AT ALL POINTS OF CURVATURE, TANGENCY STREET INTERSECTIONS, AND ALL OTHER ANGLE POINTS TO ALLOW USE OF CENTERLINE MONUMENTATION.

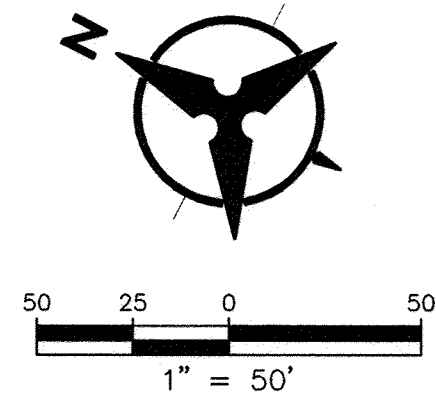
APPROVED

Ernest R. Richardson 10/23/14
(Acting) CITY SURVEYOR DATE

Kelly Calhoun 10-26-14
KELLY CALHOUN DATE
MANAGER, WOODMONT-PASEO, LLC

Bohannon & Huston
www.bhinc.com 800.877.5332





SANTA FE
AT THE TRAILS

TREE LINE AVENUE

UNIT 2
(CPN #740582)

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Jeff M. Boyd of the firm Western Technologies, 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 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 Russ P. Huggs of the firm Surv-Tek, Inc.
NMPS 9750.
Jeff M. Boyd P.E.,
NMPE #12412

Date: January 28, 2016



GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
2. ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
5. ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
6. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
7. ANY DAMAGE TO THE EXISTING FACILITIES, (C&G), PAVEMENT, CONDUITS, LANDSCAPING, UTILITY LINES, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
8. WHEELCHAIR RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
9. DENOTES CROWN TRANSITION
10. FOR CURB RETURN & QUARTER POINT ELEV INFO REFER TO INDIVIDUAL PAVING SHEETS.
11. MH RIMS & CATCH BASIN INLET ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT ELEVATIONS.
12. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND TRANSMISSION GAS LINES. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED.
13. SEE SHEET 10 FOR TYPICAL STREET SECTIONS

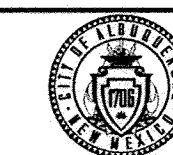
KEYED NOTES

- A. SEE SHEET 10 FOR 3" RESIDENTIAL PAVEMENT SECTION.

LEGEND

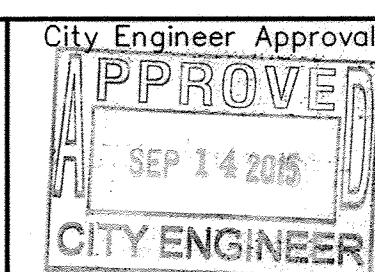
- PROPOSED R/W LINE
- PROPERTY LINE
- PROPOSED STANDARD CURB & GUTTER
- PROPOSED MOUNTABLE CURB & GUTTER
- PROPOSED SUBDIVISION BOUNDARY
- EASEMENT
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- PROPOSED FIRE HYDRANT
- PROPOSED MAIN VALVE
- PROPOSED SAS MANHOLE
- PROPOSED CURB RAMP
- PROPOSED STREET LIGHT
- PROPOSED TYPE III BARRICADES
- STOP SIGN/STREET SIGN LOCATION NOT PART OF THIS CONTRACT.

Bohannon & Huston
www.bhinc.com 800.877.5332



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

VALLE PRADO UNIT 3
OVERALL PAVING PLAN



Last Design Update

Mo./Day/Yr.	Mo./Day/Yr.

City Project No.

740583

Zone Map No.

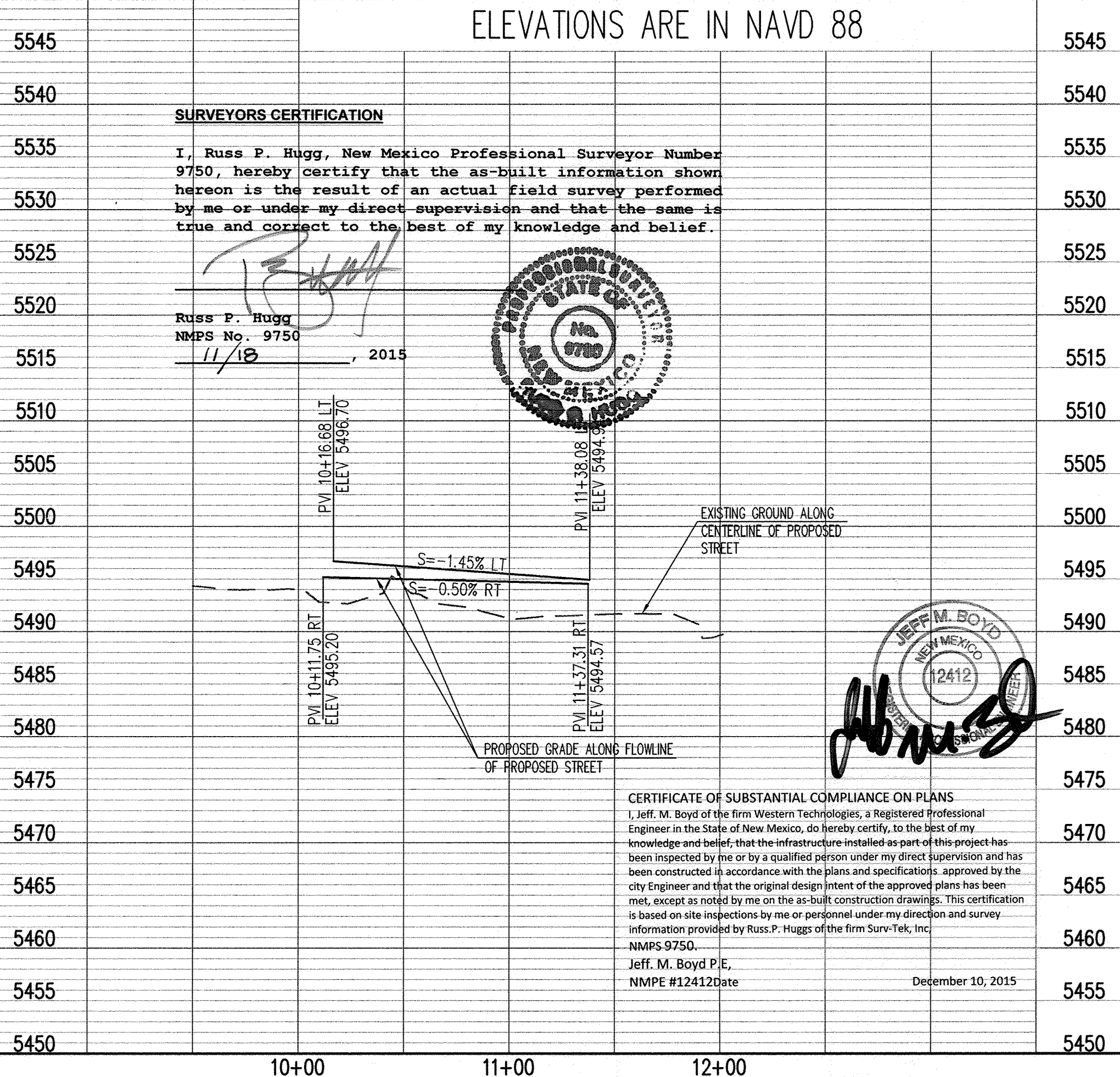
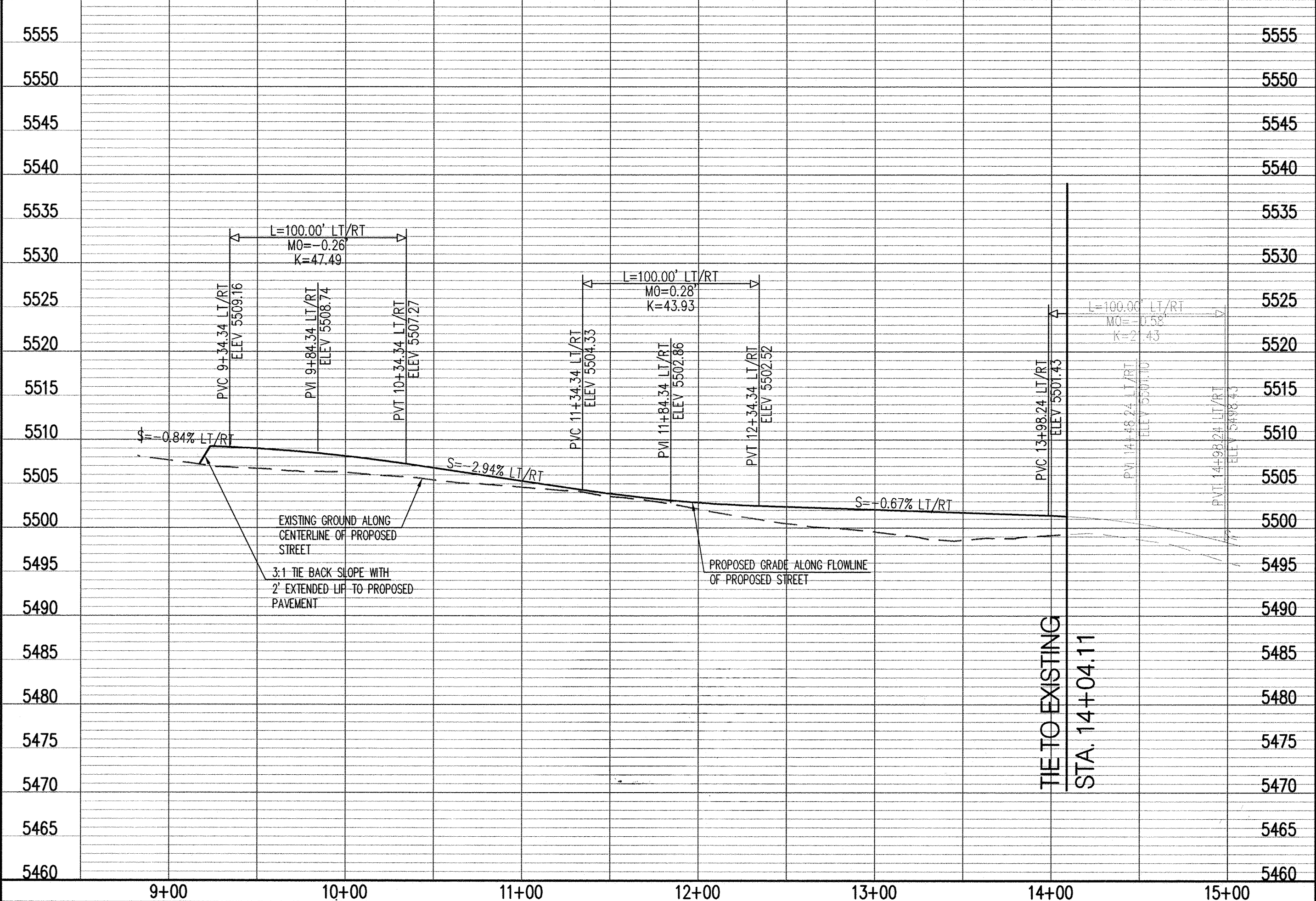
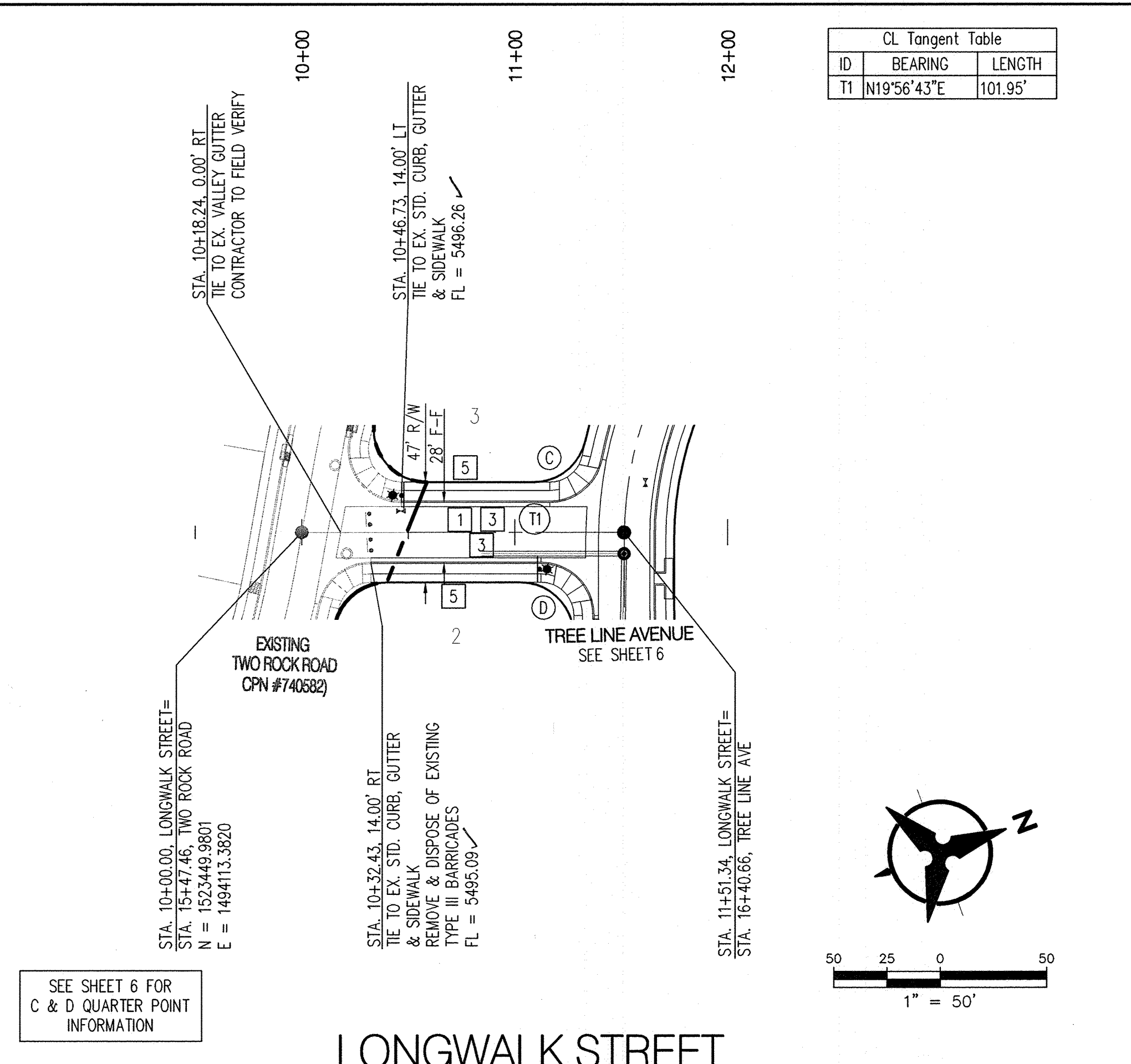
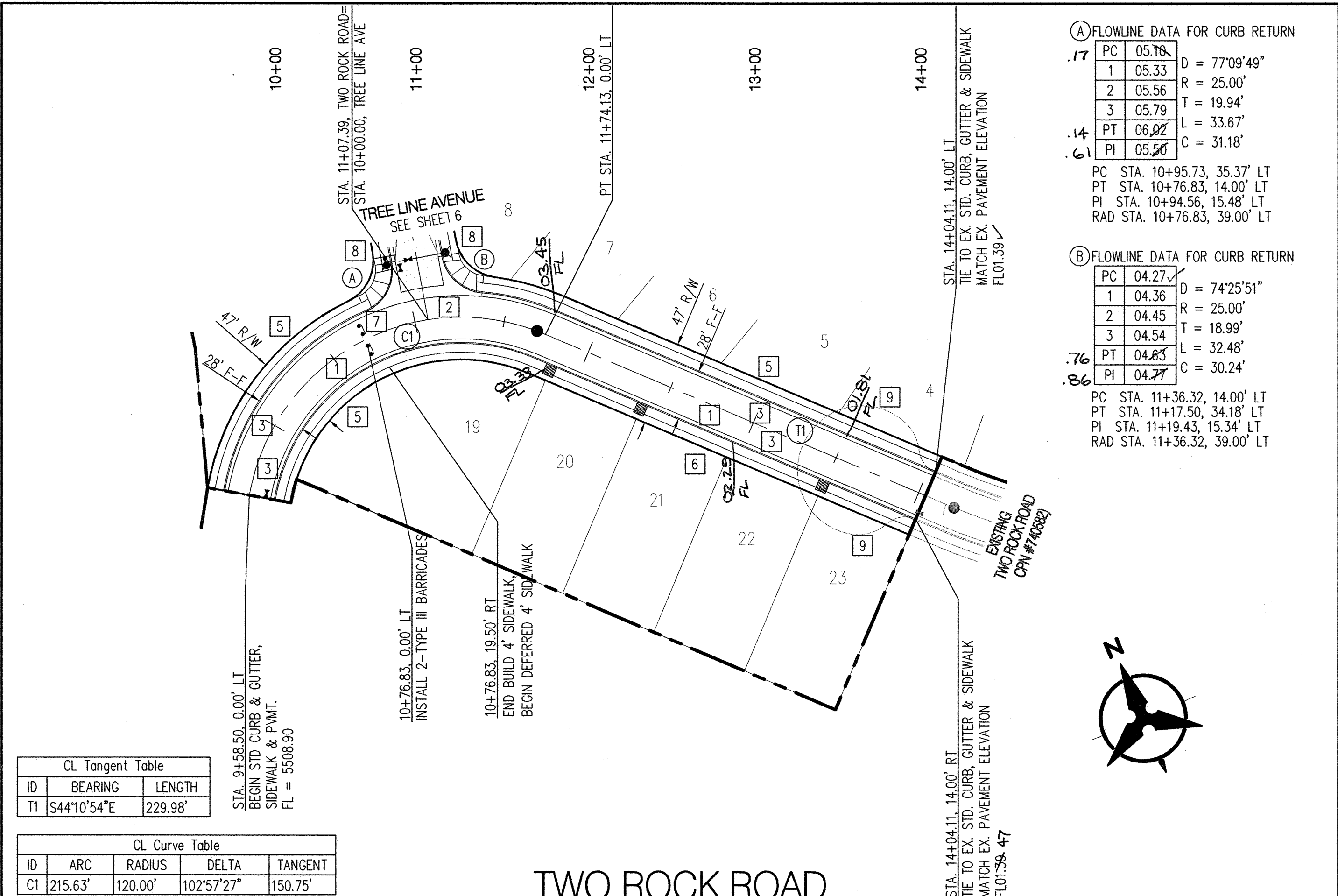
C-09-Z

Sheet

Of

4

14



NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES.
- ALL CURB RETURN RADII SHALL BE 25' UNLESS OTHERWISE SPECIFIED.
- ALL CURVE DATA AND DIMENSIONS REFER TO FACE OF CURB UNLESS OTHERWISE SPECIFIED.
- GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF CURB UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR IS TO INSTALL A 4"x 4"x 5' POST AND E.M.S. AT THE END OF EACH SANITARY SEWER SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL UTILITY CONDUITS AND EXISTING LINES.
- ANY ADDITIONAL GRADING REQUIRED TO MATCH PROPOSED STREET GRADES SHALL BE INCIDENTAL TO PAVING ITEMS.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS, (CITY AND PRIVATE) WITH THE PROPOSED HYDROSTATIC 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 CONTRACTORS' EXPENSE.
- REMOVAL OF THE EXISTING CURB & GUTTER SHALL BE PER COA STD. DWG. 2415.
- CURB RAMPS SHALL BE CONSTRUCTED PRIOR TO ACCEPTANCE OF CURB & GUTTER.
- TRANSITION TO STANDARD CURB AT ALL WHEELCHAIR RAMPS OVER 10 FEET.

KEYED NOTES

- BUILD 3" RESIDENTIAL PAVEMENT PER DETAIL A, SEE SHEET 10.
- INSTALL 6" CONCRETE VALLEY GUTTER PER COA STD. DWG. 2420.
- BUILD STANDARD CURB & GUTTER PER COA STD. DWG. 2415A.
- BUILD ROLL CURB & GUTTER PER COA STD. DWG. 2415A.
- BUILD 4' SIDEWALK PER COA STD. DWG. 2430.
- 4' SIDEWALK, DEFERRED.
- INSTALL TYPE III BARRICADES
- INSTALL CURB RAMP PER DETAIL C, SHEET 10.
- REMOVE AND DISPOSE OF EXISTING 3" GRAVEL BASE COURSE TEMPORARY TURNAROUND
- REMOVE AND DISPOSE OF APPROX. 236 SY. EXISTING ASPHALT.
- INSTALL CURB RAMP PER DETAIL "D", SHEET 10.

AS-BUILT INFORMATION

DATE	BY	NO.	REMARKS
10/15	SAUR-TEK	1	AS-BUILT INFORMATION
10/15	SAUR-TEK	2	AS-BUILT INFORMATION
10/15	SAUR-TEK	3	AS-BUILT INFORMATION
10/15	SAUR-TEK	4	AS-BUILT INFORMATION
10/15	SAUR-TEK	5	AS-BUILT INFORMATION
10/15	SAUR-TEK	6	AS-BUILT INFORMATION
10/15	SAUR-TEK	7	AS-BUILT INFORMATION
10/15	SAUR-TEK	8	AS-BUILT INFORMATION
10/15	SAUR-TEK	9	AS-BUILT INFORMATION
10/15	SAUR-TEK	10	AS-BUILT INFORMATION
10/15	SAUR-TEK	11	AS-BUILT INFORMATION
10/15	SAUR-TEK	12	AS-BUILT INFORMATION
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10/15	SAUR-TEK	14	AS-BUILT INFORMATION
10/15	SAUR-TEK	15	AS-BUILT INFORMATION
10/15	SAUR-TEK	16	AS-BUILT INFORMATION
10/15	SAUR-TEK	17	AS-BUILT INFORMATION
10/15	SAUR-TEK	18	AS-BUILT INFORMATION
10/15	SAUR-TEK	19	AS-BUILT INFORMATION
10/15	SAUR-TEK	20	AS-BUILT INFORMATION
10/15	SAUR-TEK	21	AS-BUILT INFORMATION
10/15	SAUR-TEK	22	AS-BUILT INFORMATION
10/15	SAUR-TEK	23	AS-BUILT INFORMATION
10/15	SAUR-TEK	24	AS-BUILT INFORMATION
10/15	SAUR-TEK	25	AS-BUILT INFORMATION
10/15	SAUR-TEK	26	AS-BUILT INFORMATION
10/15	SAUR-TEK	27	AS-BUILT INFORMATION
10/15	SAUR-TEK	28	AS-BUILT INFORMATION
10/15	SAUR-TEK	29	AS-BUILT INFORMATION
10/15	SAUR-TEK	30	AS-BUILT INFORMATION
10/15	SAUR-TEK	31	AS-BUILT INFORMATION
10/15	SAUR-TEK	32	AS-BUILT INFORMATION
10/15	SAUR-TEK	33	AS-BUILT INFORMATION
10/15	SAUR-TEK	34	AS-BUILT INFORMATION
10/15	SAUR-TEK	35	AS-BUILT INFORMATION
10/15	SAUR-TEK	36	AS-BUILT INFORMATION
10/15	SAUR-TEK	37	AS-BUILT INFORMATION
10/15	SAUR-TEK	38	AS-BUILT INFORMATION
10/15	SAUR-TEK	39	AS-BUILT INFORMATION
10/15	SAUR-TEK	40	AS-BUILT INFORMATION
10/15	SAUR-TEK	41	AS-BUILT INFORMATION
10/15	SAUR-TEK	42	AS-BUILT INFORMATION
10/15	SAUR-TEK	43	AS-BUILT INFORMATION
10/15	SAUR-TEK	44	AS-BUILT INFORMATION
10/15	SAUR-TEK	45	AS-BUILT INFORMATION
10/15	SAUR-TEK	46	AS-BUILT INFORMATION
10/15	SAUR-TEK	47	AS-BUILT INFORMATION
10/15	SAUR-TEK	48	AS-BUILT INFORMATION
10/15	SAUR-TEK	49	AS-BUILT INFORMATION
10/15	SAUR-TEK	50	AS-BUILT INFORMATION

ENGINEER'S SEAL

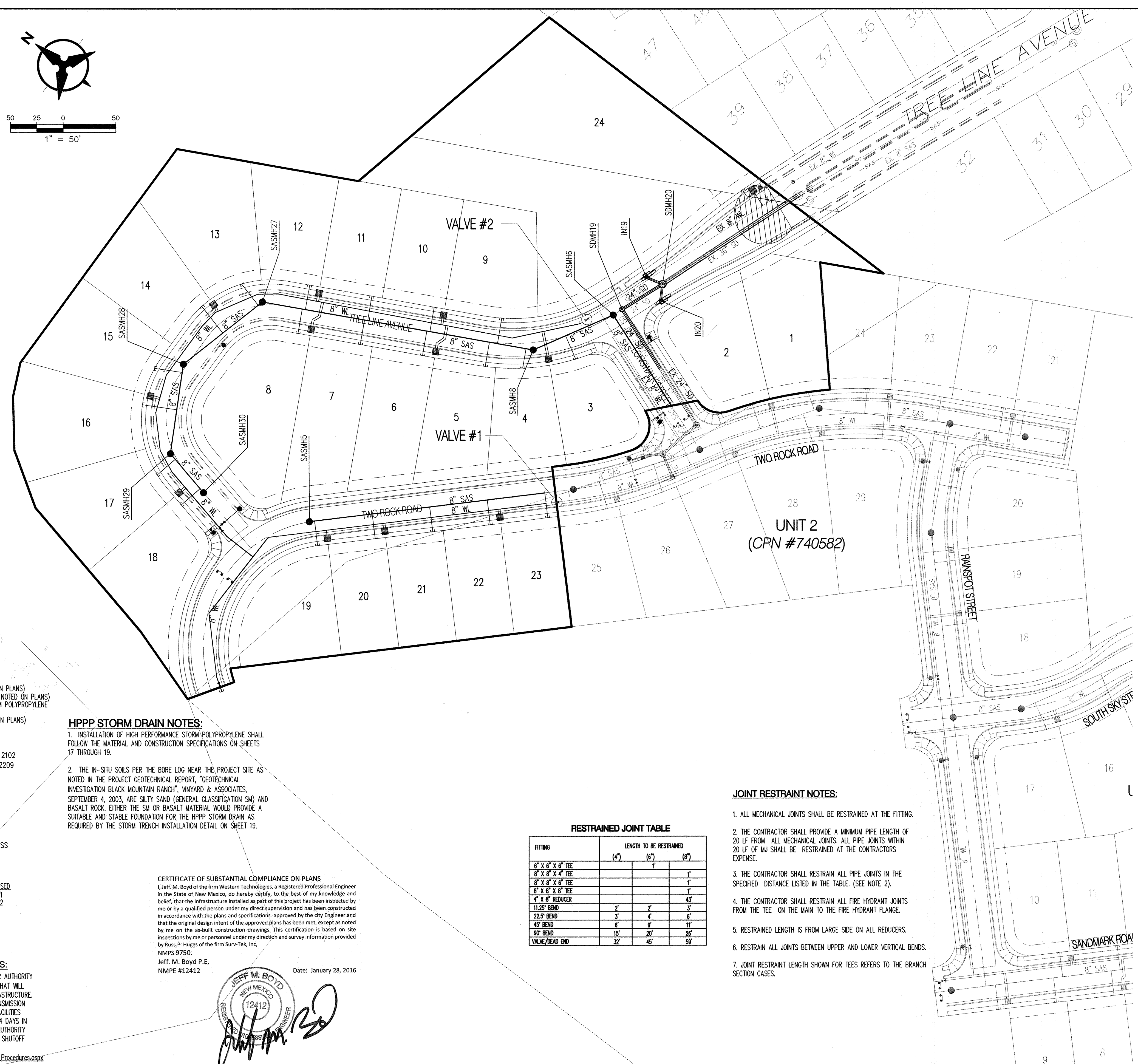
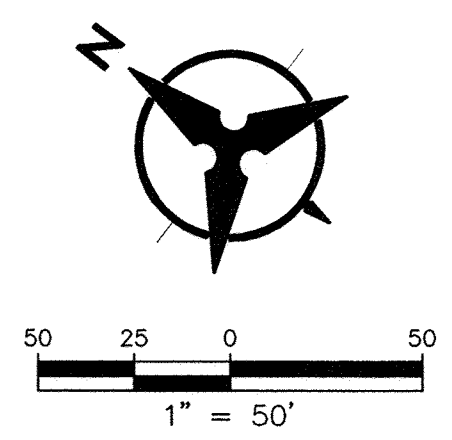
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**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

VALLE PRADO UNIT 3
PAVING PLAN AND PROFILE
TWO ROCK ROAD & LONGWALK STREET

Design Review Committee: APPROVED
City Engineer Approval: APPROVED
Last Design Update: 10/15/2015

City Project No. 740583
Zone Map No. C-09-Z
Sheet 5 of 14



MATERIALS:

SAS LINE: SDR-35 PVC (UNLESS OTHERWISE NOTED ON PLANS)
WATER LINE: C900-PVC (DR-18) (UNLESS OTHERWISE NOTED ON PLANS)
SD LINE: CLASS III RCP OR HIGH PERFORMANCE STORM POLYPROPYLENE PIPE (UNLESS OTHERWISE NOTED ON PLANS)
ALL WATER METERS 3/4" (UNLESS OTHERWISE NOTED ON PLANS)

STANDARD DRAWINGS

SAS MH TYPE 'C' & TYPE 'E', STD DWG 2101 & 2102
SD MH TYPE 'C' & TYPE 'E', STD DWG 2208 & 2209
VALVE BOXES, STD DWG 2326
RING AND COVER, STD DWG 2328
SAS SERVICES, STD DWG 2125
WATER SERVICE, STD DWG 2362
METER BOX, STD DWG 2366
FIRE HYDRANTS, STD DWG 2340

NOTE: ALL OF THE ABOVE ITEMS SHALL BE CONSTRUCTED PER THE STD DWG'S SHOWN UNLESS OTHERWISE NOTED.

WATER SHUT-OFF PLAN:

FOR CONNECTION VALVES CLOSED
TWO ROCK ROAD VALVE #1
TREE LINE AVENUE VALVE #2

CONTRACTOR WILL BE RESPONSIBLE FOR FLUSHING, DISINFECTING, AND TESTING THE LINES AS REQUIRED BY THE AECMA.

WATER SHUT-OFF REQUIREMENTS:

THE CONTRACTOR SHALL COORDINATE WITH THE WATER AUTHORITY SEVEN (7) DAYS IN ADVANCE OF PERFORMING WORK THAT WILL AFFECT THE PUBLIC WATER OR SANITARY SEWER INFRASTRUCTURE. WORK REQUIRING SHUTOFF OF WELL COLLECTORS, TRANSMISSION LINES, OR FACILITIES DESIGNATED AS MASTER PLAN FACILITIES MUST BE COORDINATED WITH THE WATER AUTHORITY 14 DAYS IN ADVANCE OF PERFORMING SUCH WORK. ONLY WATER AUTHORITY CREWS ARE AUTHORIZED TO OPERATE PUBLIC VALVES. SHUTOFF REQUESTS MUST BE MADE ONLINE AT http://www.abqwa.org/Water_Shut_off_and_Turn_on_Procedures.aspx

HPPP STORM DRAIN NOTES:

- INSTALLATION OF HIGH PERFORMANCE STORM POLYPROPYLENE SHALL FOLLOW THE MATERIAL AND CONSTRUCTION SPECIFICATIONS ON SHEETS 17 THROUGH 19.
- THE IN-SITU SOILS PER THE BORE LOG NEAR THE PROJECT SITE AS NOTED IN THE PROJECT GEOTECHNICAL REPORT, "GEOTECHNICAL INVESTIGATION BLACK MOUNTAIN RANCH, VINYARD & ASSOCIATES, SEPTEMBER 4, 2003, ARE SILTY SAND (GENERAL CLASSIFICATION SM) AND BASALT ROCK. EITHER THE SM OR BASALT MATERIAL WOULD PROVIDE A SUITABLE AND STABLE FOUNDATION FOR THE HPPP STORM DRAIN AS REQUIRED BY THE STORM TRENCH INSTALLATION DETAIL ON SHEET 19.

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Jeff. M. Boyd of the firm Western Technologies, 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 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 Russ P. Huggs of the firm Sun-Tek, Inc. NMPS 9750.
Jeff. M. Boyd P.E.,
NMPE #12412
Date: January 28, 2016

JEFF M. BOYD
12412
REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO
WESTERN TECHNOLOGIES, INC.
10000 1ST AVENUE, SUITE 100
ALBUQUERQUE, NM 87105
505.261.1234
www.western-tech.com

RESTRAINED JOINT TABLE

FITTING	LENGTH TO BE RESTRAINED		
	(4")	(6")	(8")
6" X 6" X 6" TEE		1'	1'
6" X 6" X 4" TEE			1'
6" X 6" X 6" TEE			1'
6" X 6" X 6" TEE			1'
4" X 6" REDUCER			43"
11.25° BEND	2'	2'	3'
22.5° BEND	3'	4'	6'
45° BEND	6'	9'	11'
90° BEND	15'	20'	26'
VALVE/DEAD END	32'	45'	59'

JOINT RESTRAINT NOTES:

- ALL MECHANICAL JOINTS SHALL BE RESTRAINED AT THE FITTING.
- THE CONTRACTOR SHALL PROVIDE A MINIMUM PIPE LENGTH OF 20 LF FROM ALL MECHANICAL JOINTS. ALL PIPE JOINTS WITHIN 20 LF OF MJ SHALL BE RESTRAINED AT THE CONTRACTORS EXPENSE.
- THE CONTRACTOR SHALL RESTRAIN ALL PIPE JOINTS IN THE SPECIFIED DISTANCE LISTED IN THE TABLE. (SEE NOTE 2).
- THE CONTRACTOR SHALL RESTRAIN ALL FIRE HYDRANT JOINTS FROM THE TEE ON THE MAIN TO THE FIRE HYDRANT FLANGE.
- RESTRAINED LENGTH IS FROM LARGE SIDE ON ALL REDUCERS.
- RESTRAIN ALL JOINTS BETWEEN UPPER AND LOWER VERTICAL BENDS.
- JOINT RESTRAINT LENGTH SHOWN FOR TEES REFERS TO THE BRANCH SECTION CASES.

GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED.
- ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SAS & 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 TO INSTALL A 4" X 4" X 5' POST AND E.M.D. AT THE END OF EACH SANITARY SEWER SERVICE.
- CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL DAMAGED EXISTING UTILITY CONDUITS AND EXISTING LINES.
- CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
- CONTRACTOR SHALL PROVIDE THE INSPECTORS WITH THE PROPOSED TESTING PLAN. THE PLAN MUST BE APPROVED BEFORE TESTING OPERATIONS BEGIN.
- ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, LANDSCAPING, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
- MH RIMS & CATCH BASIN INLET ELEVATIONS, FIRE HYDRANT & FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
- SAS, STORM DRAIN AND WATERLINE STATIONING FOLLOWS CL OF ROAD, UNLESS OTHERWISE NOTED.
- STATIONING OF DROP INLET IS TO MIDDLE OF GRATE AT FACE OF CURB.
- TOP OF CURB ELEVATIONS FOR DROP INLETS ARE PROJECTED FROM FLOWLINE OF STANDARD CURB TO MIDDLE OF GRATE.
- RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
- ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL USE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS.
- AT UTILITY CROSSINGS WHERE LESS THAN 1 FOOT OF SEPARATION FROM STORM DRAIN PIPE OR MANHOLE IS PRESENT LEAN FILL IS TO BE USED 1) FOR A DISTANCE OF 5 FEET ON EACH SIDE OF THE SD & FROM TOP OF STORM DRAIN TO BOTTOM OF SANITARY SEWER OR WATER LINE OR 2) FOR 10 FEET ALONG SANITARY SEWER OR WATER LINE CENTERED ON THE MANHOLE WITH DEPTH EQUAL TO 2X SEWER OR WATER LINE DIAMETER.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

LEGEND

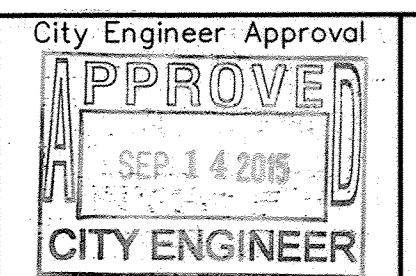
---	PROPERTY LINE
---	NEW EASEMENT
---	EXISTING SANITARY SEWER
---	EXISTING WATER LINE
---	EXISTING STORM DRAIN
---	EXISTING CAP
---	EXISTING VALVE
---	EXISTING FIRE HYDRANT
---	EXISTING SANITARY SEWER MANHOLE
---	EXISTING STORM DRAIN MANHOLE
---	PROPOSED SANITARY SEWER
---	PROPOSED WATER LINE
---	PROPOSED VALVE
---	PROPOSED CAP
---	PROPOSED WATER METER
---	PROPOSED SANITARY SEWER MANHOLE
---	PROPOSED STORM DRAIN MANHOLE
---	PROPOSED STREET LIGHT

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**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

**VALLE PRADO UNIT 3
OVERALL UTILITY PLAN**



City Project No.

740583

Zone Map No.

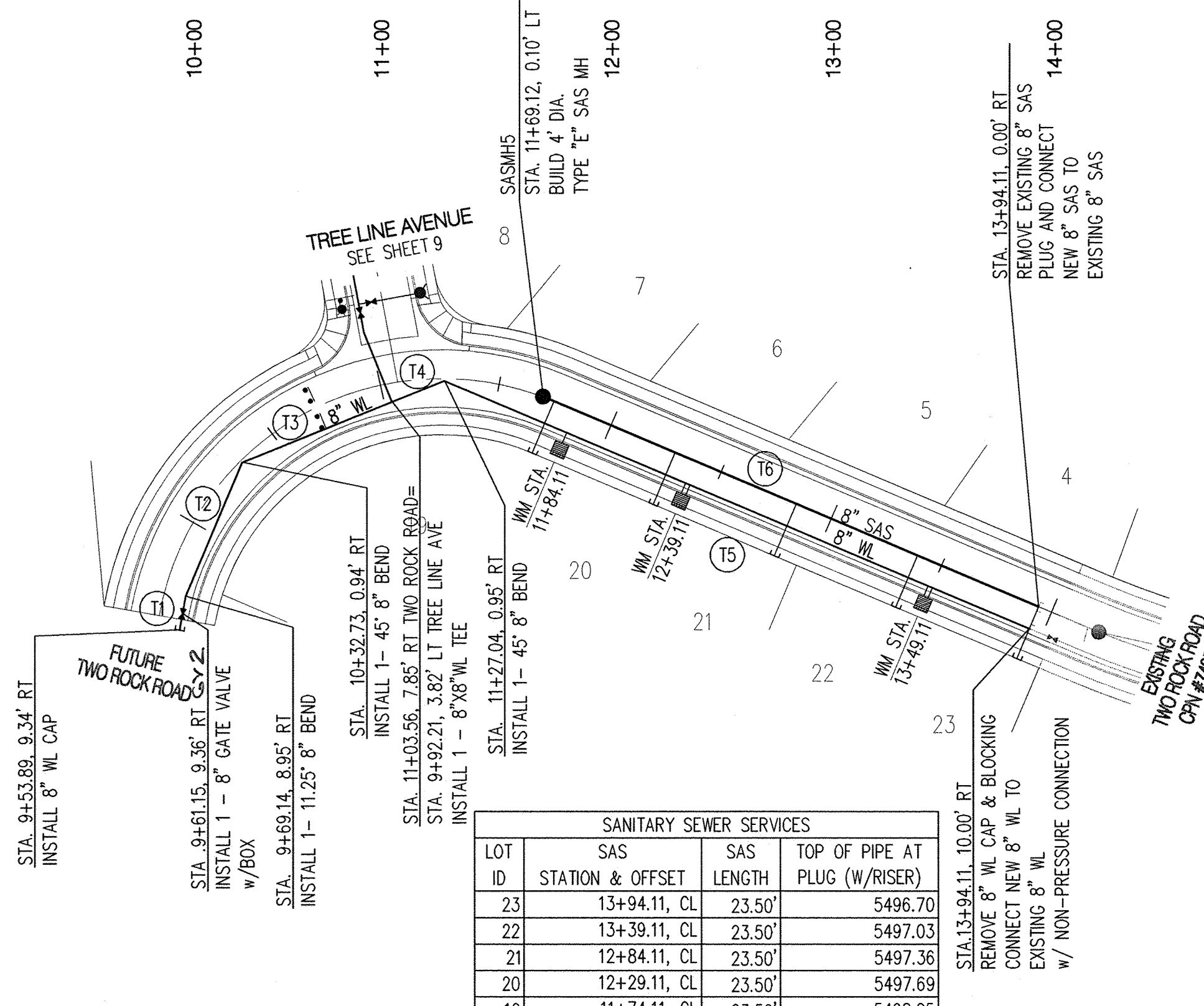
C-09-Z

Sheet

7

Of

14



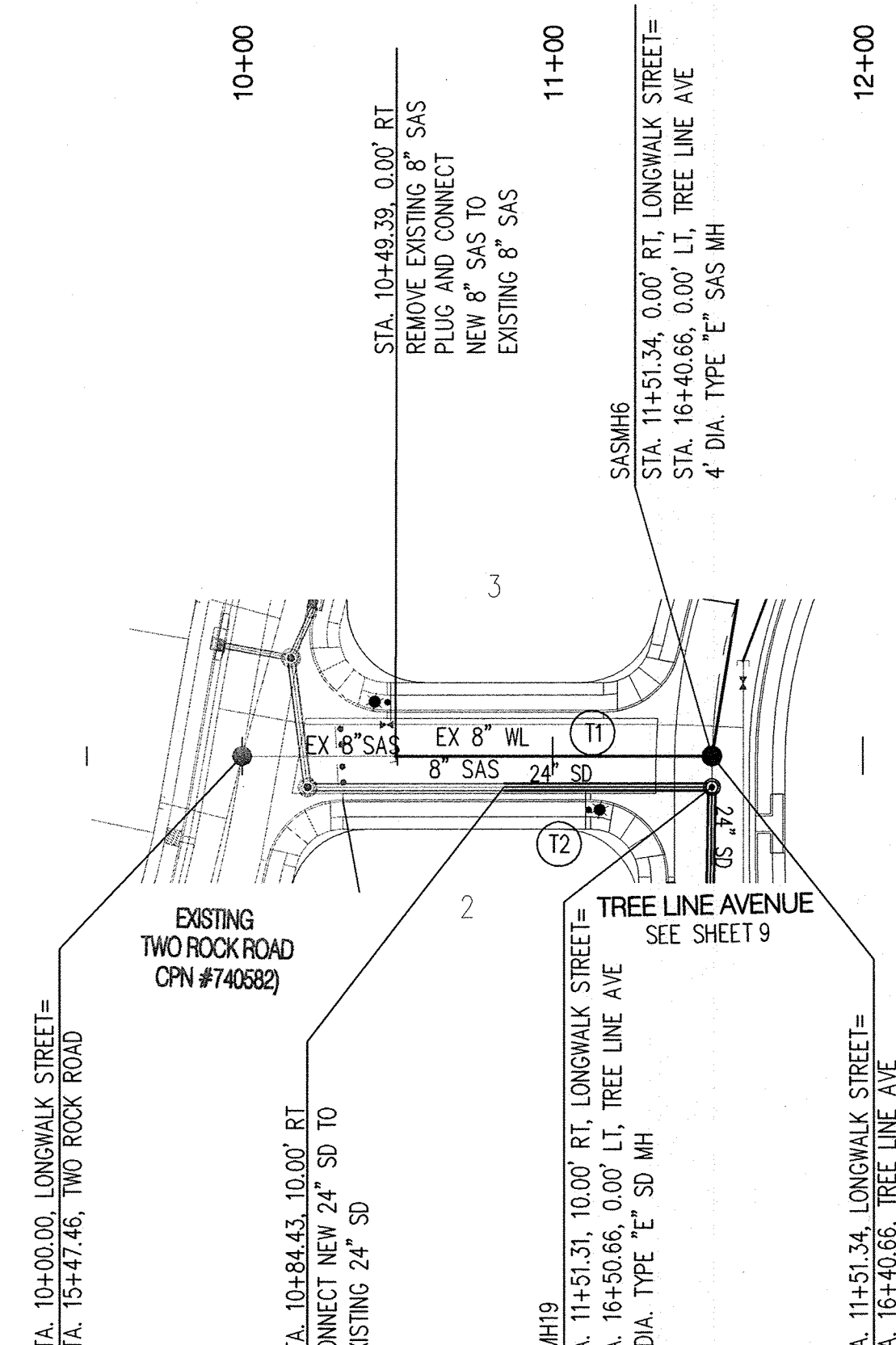
WL TANGENT TABLE		
ID	BEARING	LENGTH
T1	N32°51'38"E	14.33'
T2	N45°49'06"E	60.75'
T3	S89°10'54"E	67.58'
T4	S89°10'54"E	23.60'
T5	S44°10'54"E	265.51'

SAS TANGENT TABLE		
ID	BEARING	LENGTH
T6	N44°10'54"W	225.00'

SANITARY SEWER SERVICES			
LOT	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISER)
23	13+94.11, CL	23.50'	5496.70
22	13+39.11, CL	23.50'	5497.03
21	12+84.11, CL	23.50'	5497.36
20	12+29.11, CL	23.50'	5497.69
19	11+74.11, CL	23.50'	5498.25

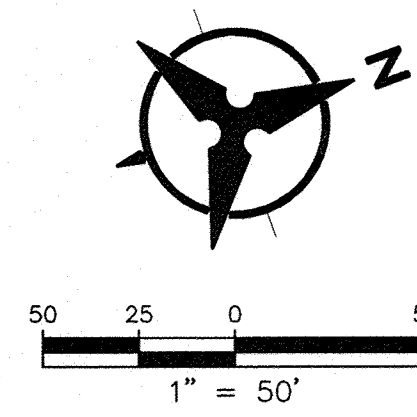
NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

TWO ROCK ROAD



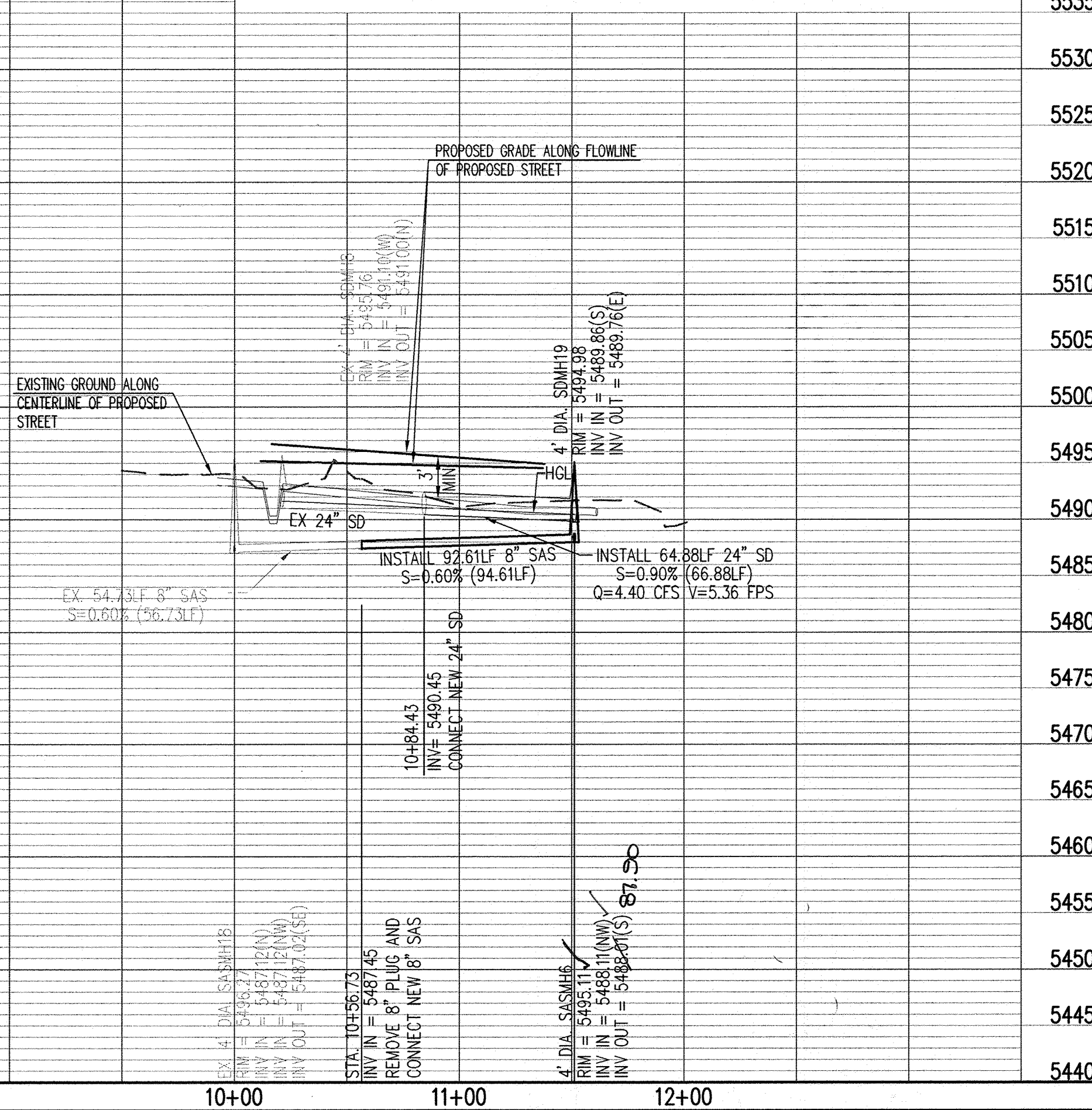
SAS TANGENT TABLE		
ID	BEARING	LENGTH
T1	N19°56'43"E	94.61'

SD TANGENT TABLE		
ID	BEARING	LENGTH
T2	S19°56'43"W	66.88'



LONGWALK STREET

ELEVATIONS ARE IN NAVD 88



GENERAL NOTES

- THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED.
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- SAS, STORM DRAIN AND WATERLINE STATIONING FOLLOWS CL OF ROAD, UNLESS OTHERWISE NOTED.
- STATIONING OF DROP INLET IS TO MIDDLE OF DOWN HILL GRATE AT FACE OF CURB.
- FLOWLINE ELEVATIONS FOR DROP INLETS ARE PROJECTED FROM FLOWLINE OF STANDARD CURB TO MIDDLE OF DOWNHILL GRATE.
- RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
- ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL USE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS.
- AT UTILITY CROSSINGS WHERE LESS THAN 18" OF SEPARATION FROM STORM DRAIN PIPE OR MANHOLE IS PRESENT LEAN FILL IS TO BE USED 1) FOR A DISTANCE OF 5 FEET ON EACH SIDE OF THE SD & FROM TOP OF STORM DRAIN TO BOTTOM OF SANITARY SEWER OR WATER LINE OR 2) FOR 10 FEET ALONG SANITARY SEWER OR WATER LINE CENTERED ON THE MANHOLE WITH DEPTH EQUAL TO 2X SEWER OR WATER LINE DIAMETER.
- ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.
- STORM DRAIN GRATES PER MODIFIED COA STD DWG 2220 PER DETAIL SHEET 11.

LEGEND

- DOUBLE WATER METER
- SINGLE WATER METER
- WATER LINE SHUTOFF VALVE
- SAS LATERAL
- SAS MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED STREET LIGHT

AS-BUILT LOCATION OF MANHOLES & VALVES

VALVE FH (TYPE) MH	NORTHING	EASTING
SASMH5	1523703.48	1493635.51
GV2	1523678.56	1493660.80

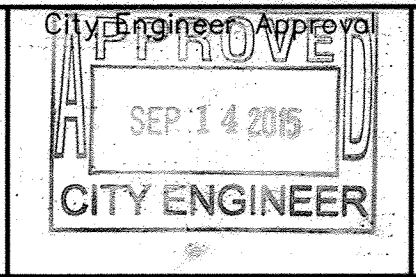
NOTE: TO BE COMPLETED BY CONTRACTOR PRIOR TO ACCEPTANCE

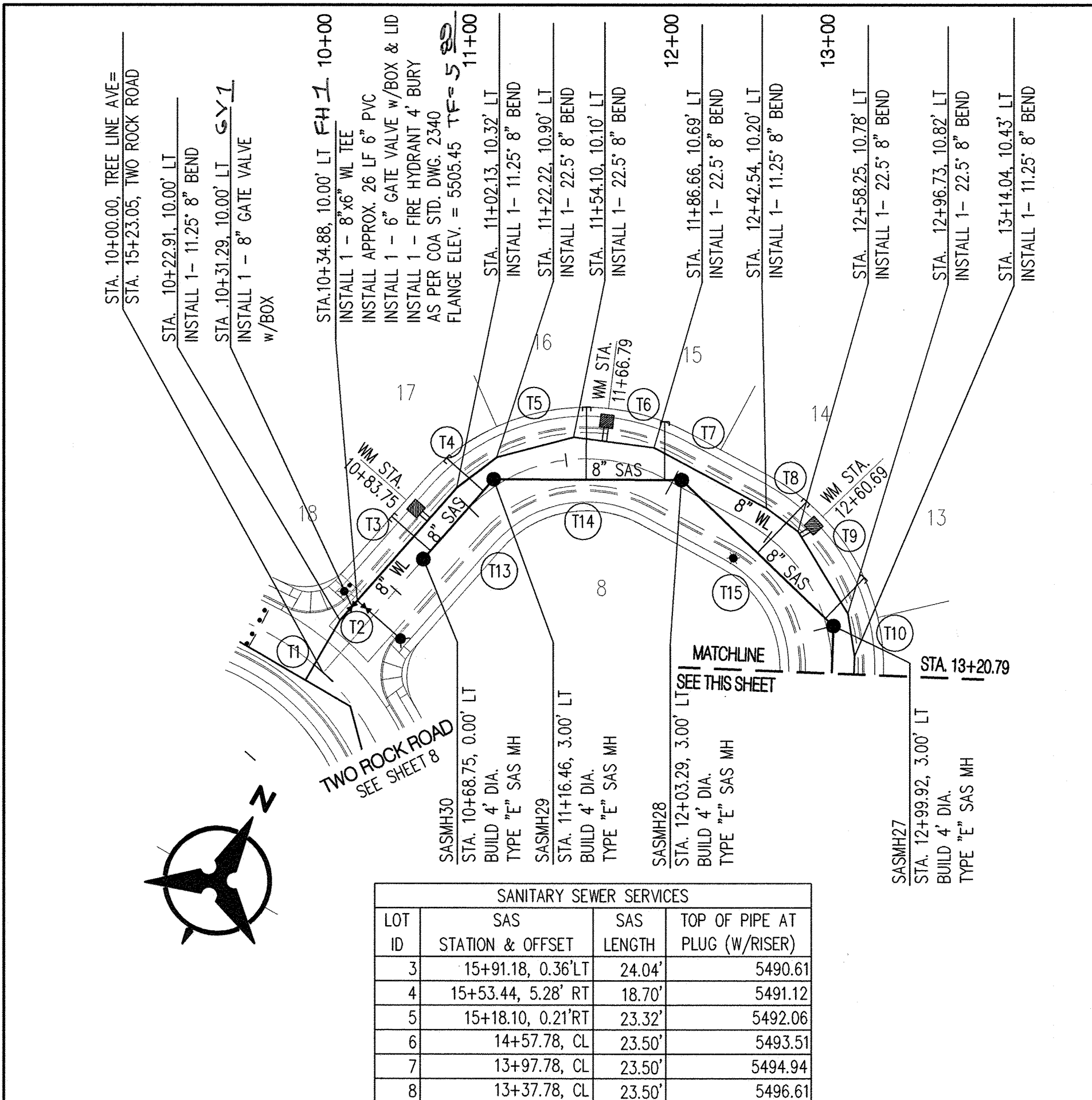
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

VALLE PRADO UNIT 3
UTILITY PLAN AND PROFILE
TWO ROCK ROAD & LONGWALK STREET





WL Tangent Table		
ID	BEARING	LENGTH
T1	N00°49'06"E	31.32'
T2	N12°11'46"E	11.97'
T3	N12°11'46"E	68.13'
T4	N23°26'46"E	22.87'
T5	N45°56'46"E	36.09'
T6	N68°26'46"E	36.78'
T7	N89°01'47"E	57.90'
T8	S82°54'28"E	17.88'
T9	S60°24'28"E	43.55'
T10	S37°54'28"E	19.72'
T11	S26°39'28"E	225.79'
T12	S49°09'28"E	66.01'

SAS Tangent Table		
ID	BEARING	LENGTH
T13	S12°11'46"W	48.26'
T14	S61°00'44"W	85.27'
T15	N75°25'17"W	95.35'
T16	N27°16'30"W	260.83'
T17	N60°43'51"W	82.91'

SD Tangent Table		
ID	BEARING	LENGTH
T18	N69°00'55"W	45.11'

SANITARY SEWER SERVICES CONT'D				
LOT ID	SAS STATION & OFFSET	SAS LENGTH	TOP OF PIPE AT PLUG (W/RISE)	
9	15+25.74, 0.73' RT	24.35'	5491.90	
10	14+60.78, CL	23.50'	5493.44	
11	14+00.78, CL	23.50'	5494.87	
12	13+40.78, CL	23.50'	5496.54	
13	12+95.71, 0.45' LT	25.46'	5497.43	
14	12+50.79, 8.71' RT	32.31'	5498.09	
15	11+96.43, 0.65' RT	26.50'	5498.67	
16	11+59.02, 9.49' RT	32.99'	5499.05	
17	11+09.86, 1.38' LT	22.44'	5499.28	
18	10+73.75, CL	23.50'	5499.71	
24	18+52.27, 9.73' RT	65.25'	5490.31	

NOTE: WATER METER LOCATIONS ARE DESIGNATED BY STATIONING AT PROPERTY CORNERS.

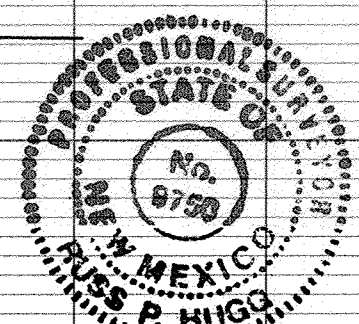
TREE LINE AVENUE

ELEVATIONS ARE IN NAVD 88

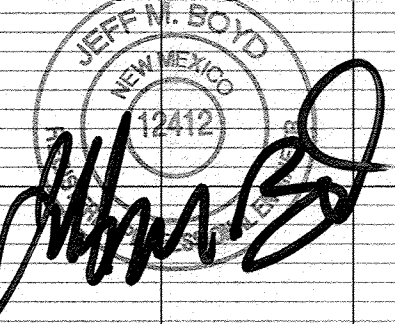
SURVEYORS CERTIFICATION

I, Russ P. Hugg, New Mexico Professional Surveyor Number 9750, hereby certify that the as-built information shown hereon is the result of an actual field survey performed by me or under my direct supervision, and that the same is true and correct to the best of my knowledge and belief.

Russ P. Hugg
NMPS No. 9750
11/18, 2015



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Jeff M. Boyd of the firm Western Technologies, 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 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 Russ P. Hugg of the firm Surv-Tek, Inc.
NMPS 9750
Jeff M. Boyd P.E.
NMPE #12412 Date December 10, 2015



LEGEND

- DOUBLE WATER METER
- SINGLE WATER METER
- WATER LINE SHUTOFF VALVE
- SAS LATERAL
- SAS MANHOLE
- STORM DRAIN MANHOLE
- STORM DRAIN INLET
- PROPOSED FIRE HYDRANT
- EXISTING WATER VALVE
- PROPOSED STREET LIGHT

AS-BUILT LOCATION OF MANHOLES & VALVES

VALVE MH (TYPE) MH	NORTHING	EASTING
SASMH30	1523759.75	1493755.60
SASMH29	1523847.81	1493808.08
" 28	1523888.27	1493881.10
" 27	1523863.89	1493973.13
" 6	1523632.84	1494093.12
" 8	1523592.31	1494165.17
SDMH19	1523589.62	1494173.71
GV1	1523762.99	1493778.14
FH1	1523764.12	1493804.75

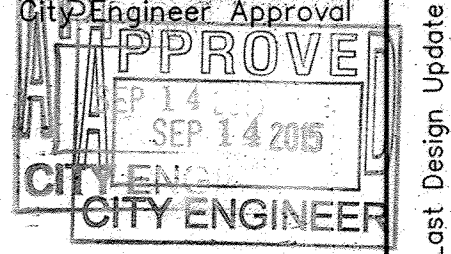
NOTE: TO BE COMPLETED BY CONTRACTOR PRIOR TO ACCEPTANCE

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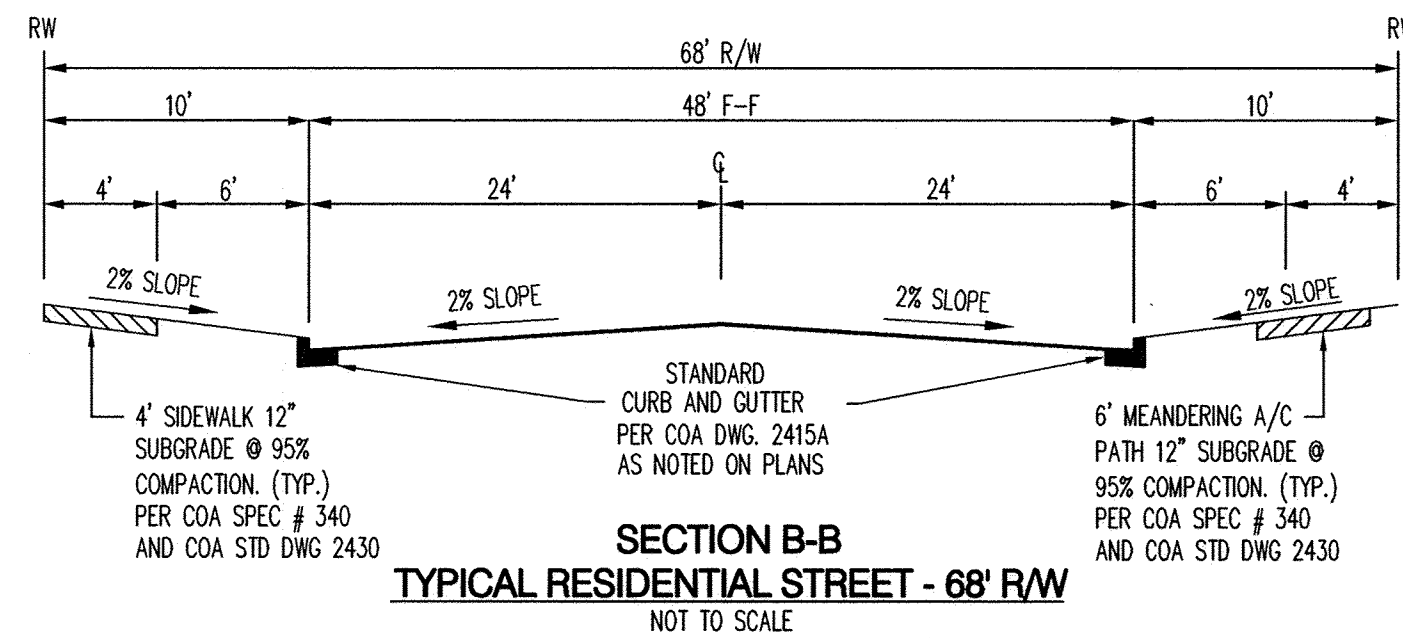
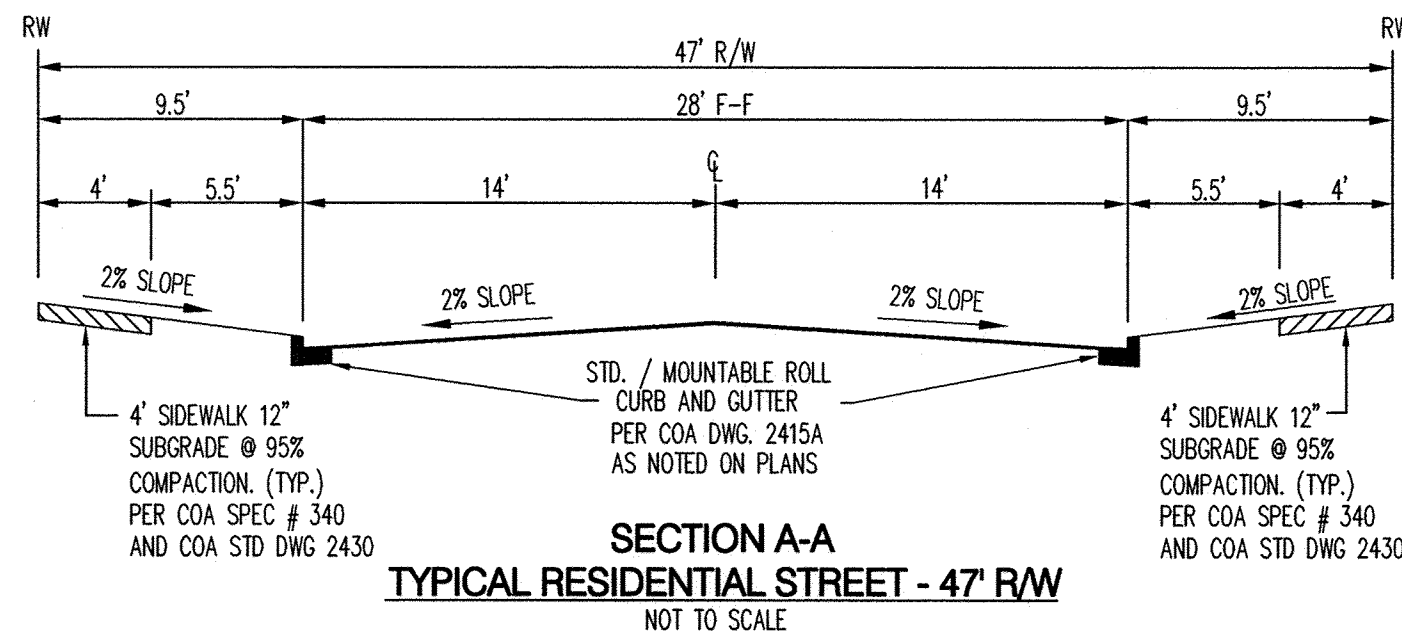
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

VALLE PRADO UNIT 3
UTILITY PLAN AND PROFILE
TREE LINE AVENUE



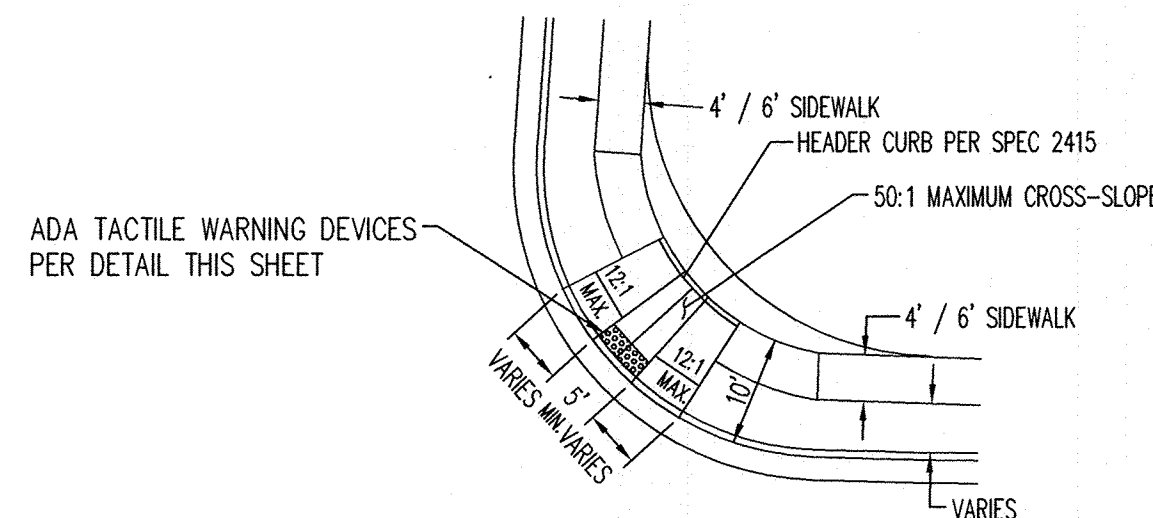
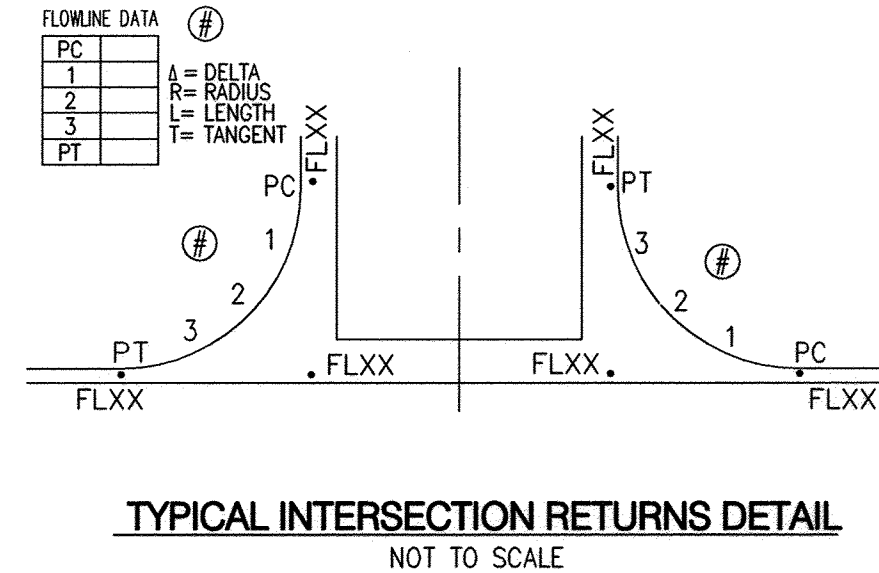
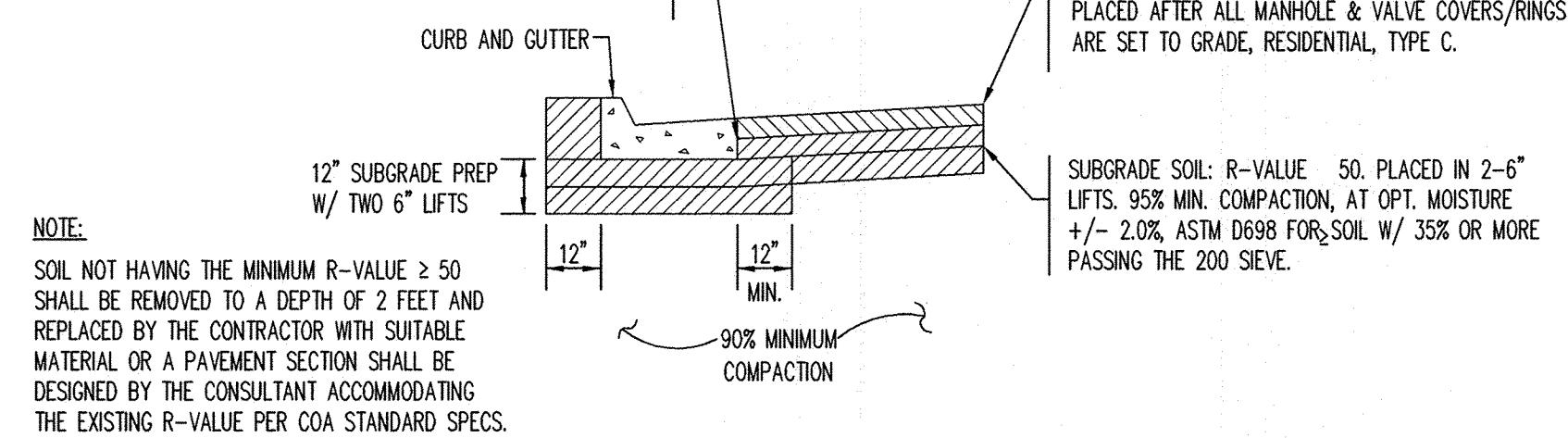
Mo./Day/Yr.		Mo./Day/Yr.	

City Project No. 740583 Zone Map No. C-09-Z Sheet 9 Of 14



NOTE:
REFER TO INDIVIDUAL PAVING PLAN AND PROFILE SHEETS FOR LOCATION OF DEFERRED SIDEWALKS AND TRANSITION LOCATIONS OF ROLL CURB TO STANDARD CURB & GUTTER.

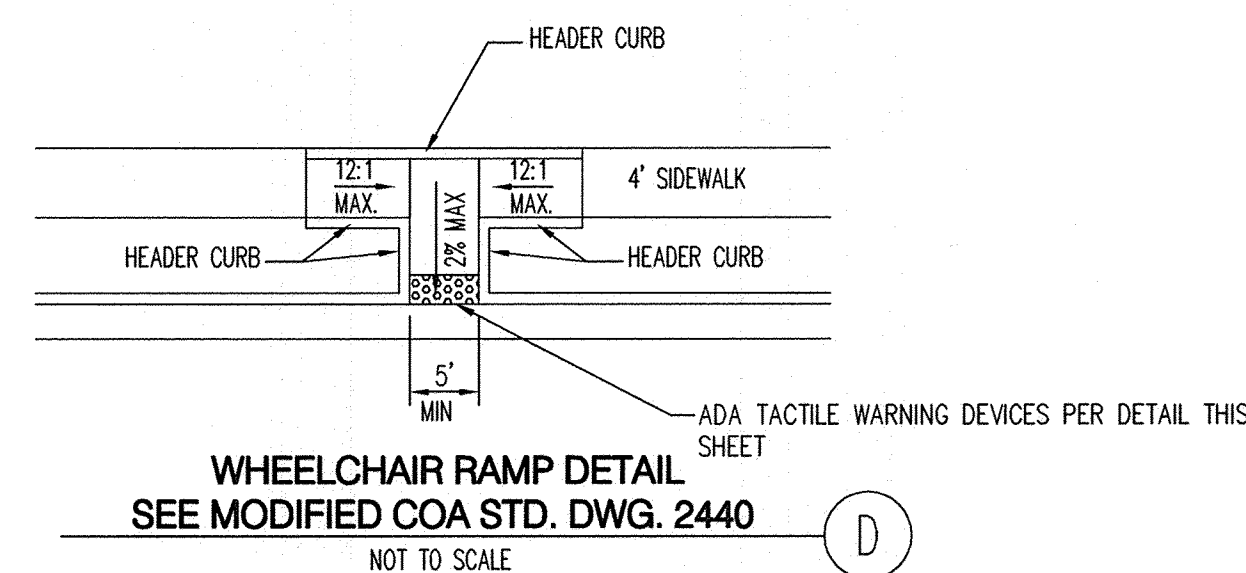
FINISH SURFACES OF SUBGRADE SHALL BE MOISTURE CONTROLLED AT THE COMPACTION MOISTURE RANGE, OR A PRIME COAT APPLIED AS REQUIRED BY THE ENGINEER UNTIL NEXT/ FINAL SURFACING IS COMPLETED. SUBGRADE PREPARATION SHALL BE PERFORMED AFTER ALL SUBSURFACE R/W UTILITIES CONSTRUCTION ARE COMPLETED.



- 1 ADA RAMP WING TIES TO SIDEWALK AT 12:1 MAX SLOPE IN LESS THAN 15'.
- 2 WHERE CONDITION 1 CANNOT BE MET DUE TO STREET SLOPE, BUILD WING AT 12:1 OR GREATER FOR 15' TOTAL.

WHEELCHAIR RAMP DETAIL
SEE MODIFIED COA STD. DWG. 2441 CASE II
NOT TO SCALE

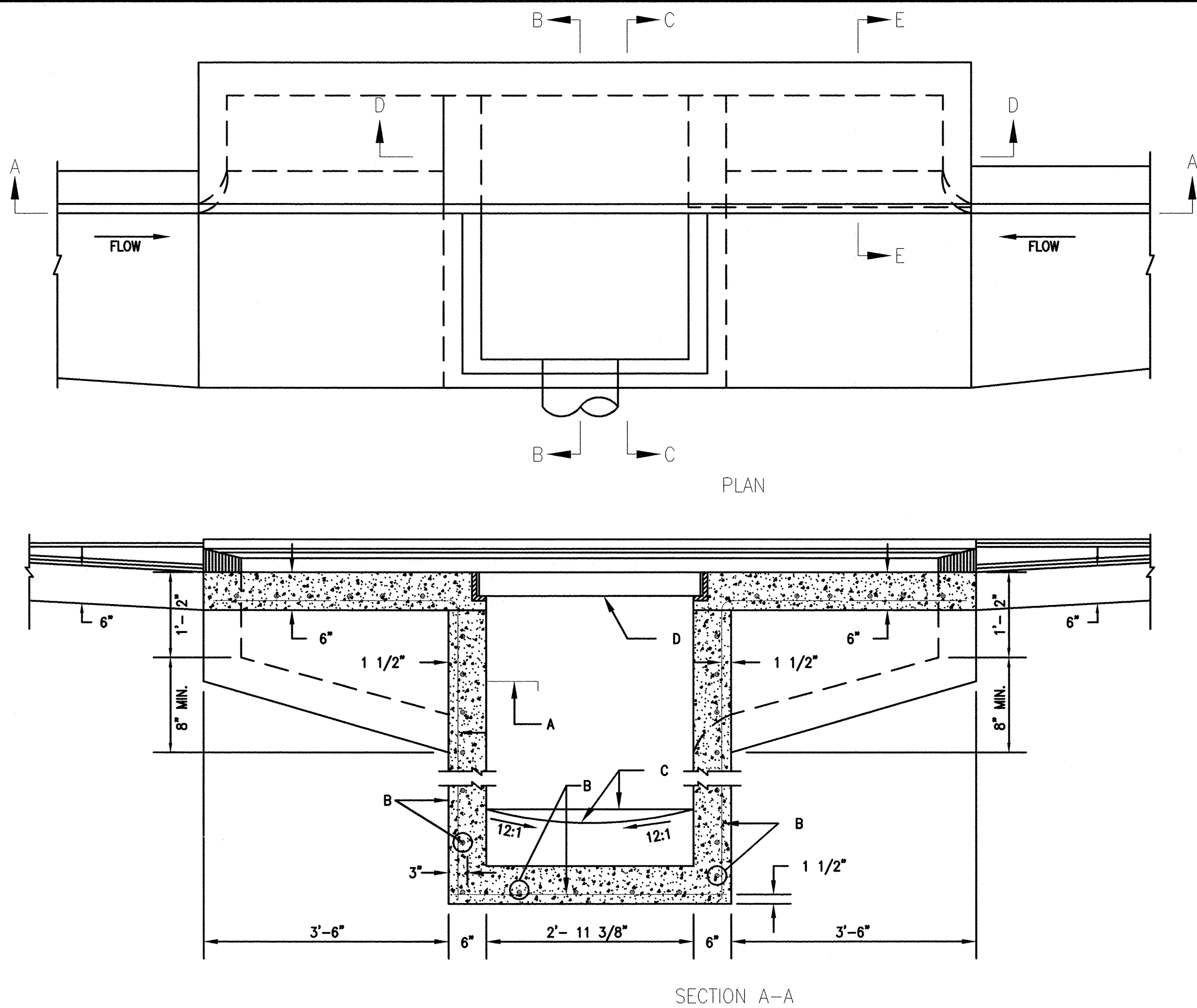
ADA TACTILE WARNING DEVICES
NOT TO SCALE
CONTRACTOR SHALL INSTALL ADA TACTILE WARNING DEVICES ON NEW CURB RAMPS. DESIGN PER ADA GUIDELINES. SUBMIT SPECIFICATIONS TO THE CONSTRUCTION ENGINEER FOR EVALUATION PRIOR TO CONSTRUCTION.



CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS
I, Jeff. M. Boyd of the firm Western Technologies, 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 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 Russ P. Huggs of the firm Surv-Tek, Inc.
NMPS 9750.
Jeff. M. Boyd P.E.
VMPE #12412
Date: January 28, 2016

Bohannon & Huston
www.bhinc.com 800.877.5332

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT			
VALLE PRADO UNIT 3 MISCELLANEOUS PAVING DETAILS			
Design Review Committee 	City Engineer Approval 	Mo./Day/Yr. 	Mo./Day/Yr.
City Project No. 740583	Zone Map No. C-09-Z	Sheet 10	Of 14



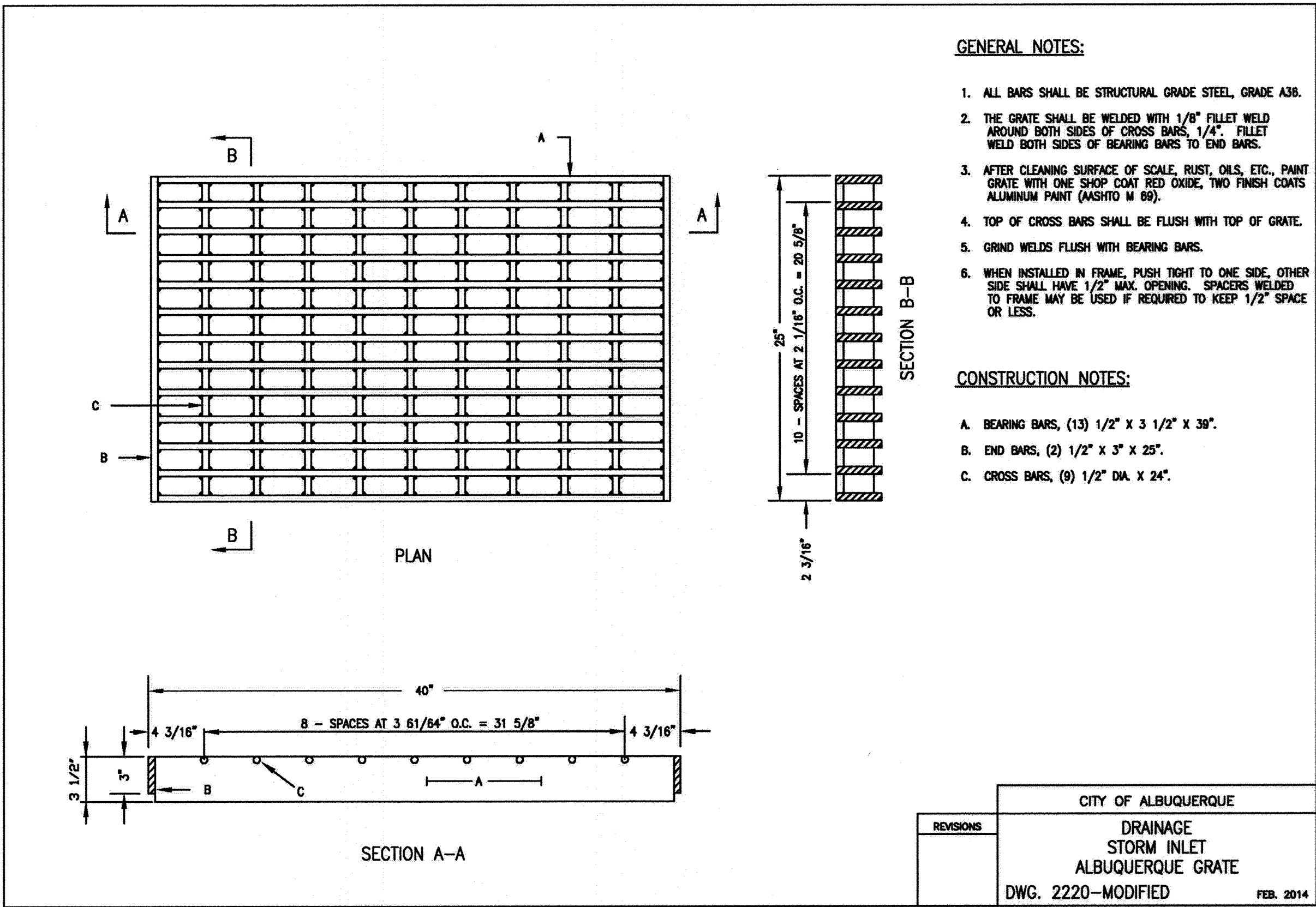
SINGLE GRATE DOUBLE WING TYPE "A" STORM DRAIN INLET
NOT TO SCALE

GENERAL NOTES:

1. SEE DWG. 2202 FOR TYPE "A" INLET SECTIONS.
2. FOR STORM INLET GUTTER TRANSITION, SEE DWG. 2207.
3. OUTLET PIPE SIZE, PER DESIGN REQUIREMENT.
4. FOR FRAME & GRATING, SEE DWG. 2216, 2220 & 2221.

CONSTRUCTION NOTES:

- A. FOR STORM INLET DEPTHS GREATER THAN 4', INSTALL STD. STEPS, SEE DWG. 2229. STEPS ARE TO BE INSTALLED ON DOWNSTREAM FACE OF INLET.
- B. NO. 4 BARS AT 6" O.C. EACH WAY.
- C. CONCRETE FILL, MINIMUM SLOPE SHOWN IN SECTION A-A.
- D. GRATE

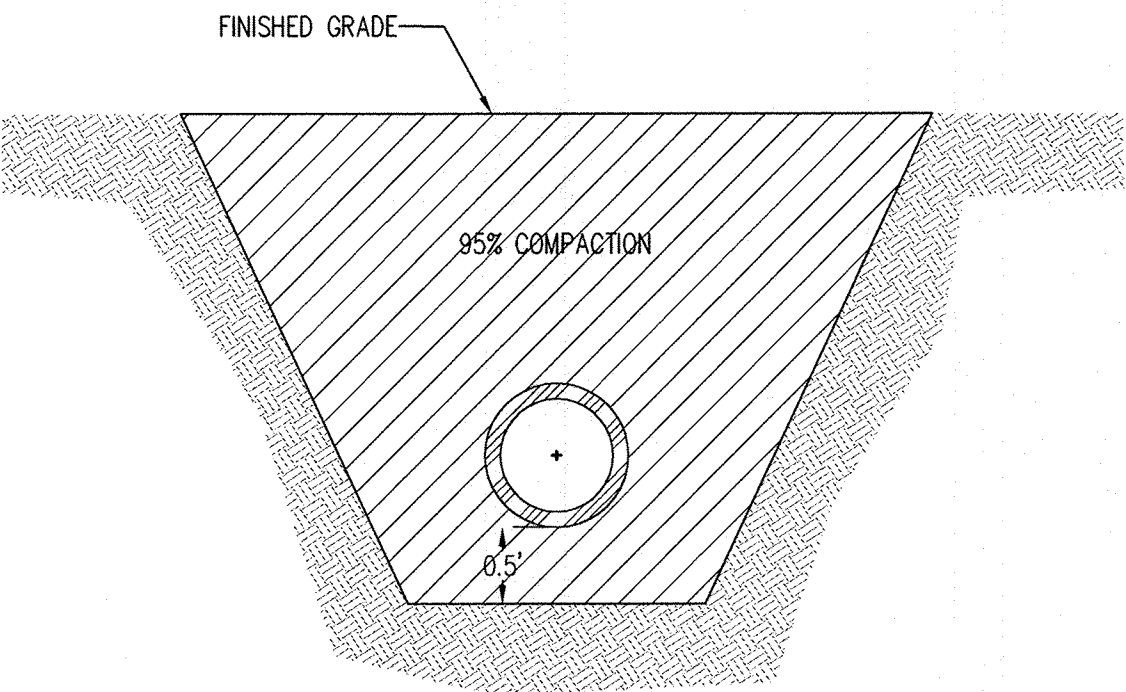


GENERAL NOTES:

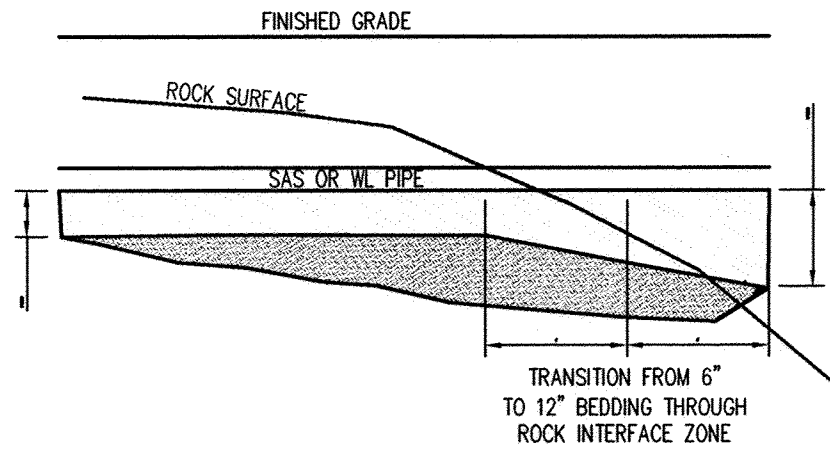
1. ALL BARS SHALL BE STRUCTURAL GRADE STEEL, GRADE A36.
2. THE GRATE SHALL BE WELDED WITH 1/8" FILLET WELD AROUND BOTH SIDES OF CROSS BARS, 1/4" FILLET WELD BOTH SIDES OF BEARING BARS TO END BARS.
3. AFTER CLEANING SURFACE OF SCALE, RUST, OILS, ETC., PAINT GRATE WITH ONE SHOP COAT RED OXIDE, TWO FINISH COATS ALUMINUM PAINT (AASHTO M 69).
4. TOP OF CROSS BARS SHALL BE FLUSH WITH TOP OF GRATE.
5. GRIND WELDS FLUSH WITH BEARING BARS.
6. WHEN INSTALLED IN FRAME, PUSH TIGHT TO ONE SIDE, OTHER SIDE SHALL HAVE 1/2" MAX. OPENING. SPACERS WELDED TO FRAME MAY BE USED IF REQUIRED TO KEEP 1/2" SPACE OR LESS.

CONSTRUCTION NOTES:

- A. BEARING BARS, (13) 1/2" X 3 1/2" X 30".
- B. END BARS, (2) 1/2" X 3" X 25".
- C. CROSS BARS, (9) 1/2" DIA. X 24".



ABCWUA TYPICAL TRENCH COMPACTION DETAIL FOR PUBLIC WATER AND SANITARY SEWER LINES
NOT TO SCALE

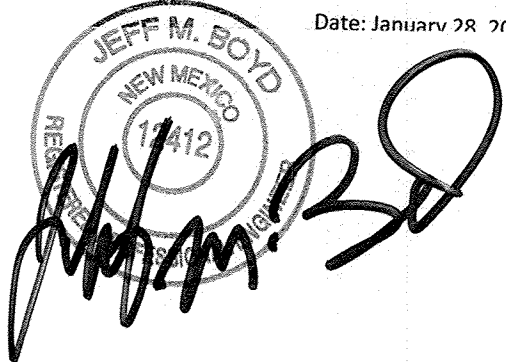


ROCK TRENCH DETAIL
NOT TO SCALE

NOTE: NO CRUSHED/BLASTED BASALT WITHIN 1' OF SAS OR WL PIPE

SUPPLEMENTAL SPECIFICATION

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Jeff M. Boyd P.E.
NMPE #12412
Date: January 28, 2015



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CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT			
VALLE PRADO UNIT 3 MISCELLANEOUS UTILITY DETAILS			
Design Review Committee APPROVED APR 13 2015 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVED SEP 14 2015 CITY ENGINEER	Mo./Day/Yr. _____	Mo./Day/Yr. _____
City Project No. 740583	Zone Map No. C-09-Z	Sheet 11	Of 14

STORM TRENCH INSTALLATION DETAIL

MIN. COVER TO RIGID PAVEMENT, H

MIN. COVER TO FLEXIBLE PAVEMENT, H

FINAL BACKFILL

INITIAL BACKFILL

HAUNCH

BEDDING

SUITABLE FOUNDATION

MIN TRENCH WIDTH (SEE TABLE)

4" FOR 12"-36" PIPE

6" FOR 36"-60" PIPE

SPRINGLINE

TABLE 1, RECOMMENDED MINIMUM TRENCH WIDTHS

PIPE DIAM.	MIN TRENCH WIDTH
12" (300mm)	30" (750mm)
16" (400mm)	34" (860mm)
18" (450mm)	36" (900mm)
24" (600mm)	48" (1200mm)
30" (750mm)	60" (1420mm)
36" (900mm)	64" (1620mm)
42" (1050mm)	72" (1800mm)
48" (1200mm)	80" (2000mm)
60" (1500mm)	96" (2440mm)

NOTES:

1. ALL PIPE SYSTEMS SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY FLOW APPLICATIONS". LATEST EDITION, WITH THE EXCEPTION THAT THE INITIAL BACKFILL MAY EXTEND TO THE CROWN OF THE PIPE. SOIL CLASSIFICATIONS ARE PER THE LATEST VERSION OF ASTM D2921, CLASS IV MATERIALS (MH, CH) AS DEFINED IN PREVIOUS VERSIONS OF ASTM D2921 ARE NOT APPROPRIATE BACKFILL MATERIALS.

2. MEASURES SHOULD BE TAKEN TO PREVENT MIGRATION OF NATIVE FINES INTO BACKFILL MATERIAL, WHEN REQUIRED.

3. FOUNDATION: WHERE THE TRENCH BOTTOM IS UNSTABLE, THE CONTRACTOR SHALL EXCAVATE TO A DEPTH REQUIRED BY THE ENGINEER AND REPLACE WITH SUITABLE MATERIAL AS SPECIFIED BY THE ENGINEER, AS AN ALTERNATIVE AND AT THE DISCRETION OF THE DESIGN ENGINEER, THE TRENCH BOTTOM MAY BE STABILIZED USING A GEOTEXTILE MATERIAL.

4. BEDDING: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. COMPACTION SHALL BE 90% OF MAXIMUM DENSITY PER ASTM D1557 OR AS SHOWN ON THE PLANS. UNLESS OTHERWISE NOTED BY THE ENGINEER, MINIMUM BEDDING THICKNESS SHALL BE 4" (100mm) FOR 12"-24" (300mm-600mm) DIAMETER PIPE; 6" (150mm) FOR 30"-48" (750mm-1200mm) DIAMETER PIPE. THE MIDDLE 1/3 BENEATH THE PIPE INVERT SHALL BE LOOSELY PLACED.

5. INITIAL BACKFILL: SUITABLE MATERIAL SHALL BE CLASS I, II, OR III IN THE PIPE ZONE EXTENDING TO THE CROWN OF THE PIPE. THE CONTRACTOR SHALL PROVIDE DOCUMENTATION FOR MATERIAL SPECIFICATION TO ENGINEER. MATERIAL SHALL BE INSTALLED AS REQUIRED IN ASTM D2321, LATEST EDITION. FOR TRAFFIC APPLICATIONS, CLASS I, II OR III MATERIAL SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 90 PERCENT OF MAXIMUM DENSITY PER ASTM D1557. CLASS IV MATERIALS AS DEFINED IN ASTM D2921 ARE NOT APPROPRIATE BACKFILL MATERIALS.

6. MINIMUM COVER: MINIMUM COVER, H, IN NON-TRAFFIC APPLICATIONS (GRASS OR LANDSCAPE AREAS) IS 12" (300mm) FROM THE TOP OF PIPE TO GROUND SURFACE. ADDITIONAL COVER MAY BE REQUIRED TO PREVENT FLOTATION. FOR TRAFFIC APPLICATIONS, MINIMUM COVER, H, IS 12" (300mm) UP TO 48" (1200mm) DIAMETER PIPE AND 24" (600mm) OF COVER FOR 60" (1500mm) DIAMETER PIPE, MEASURED FROM TOP OF PIPE TO BOTTOM OF FLEXIBLE PAVEMENT OR TO TOP OF RIGID PAVEMENT.

COA HP PP STORM TRENCH INSTALLATION DETAIL

DATE

END

MTS

OF

30"-60" WATERSTOP GROUTED MANHOLE CONNECTION (TRIPLE WALL)

INSTALLATION VIEW

CAST IRON GRATE AND FRAME

CAST-IN-PLACE MANHOLE STRUCTURE

STAINLESS STEEL TAKE-UP CLAMP (2 PLACES)

TRIPLE WALL PIPE (36" - 60" Ø)

ENSURE BACKFILL IS PLACED UNDER PIPE AND PROPERLY COMPACTED

DETAILED CONNECTION VIEW

STRUCTURE WALL

CONCRETE (CAST-IN-PLACE STRUCTURE)

STAINLESS STEEL TAKE-UP CLAMP

TABLE 2, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE DIAM.	SURFACE LIVE LOADING CONDITION	
	H-20	HEAVY CONSTRUCTION (75T AXLE LOAD)
12" - 48" (300mm - 1200mm)	12" (300mm)	48" (1200mm)
60" (1500mm)	24" (600mm)	60" (1500mm)

VEHICLES IN EXCESS OF 75T MAY REQUIRE ADDITIONAL COVER

PIPE SIZE (IN)

PIPE OD (IN)

"A" MIN. HOLE Ø (IN)

36	41.1	48.0
42	47.2	52.5
48	53.8	60.0
60	66.5	72.5

NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST ENSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

COA WATERSTOP GROUTED MANHOLE CONNECTION 36" - 60" DETAIL

DATE

END

MTS

OF

12"-60" WATERSTOP GROUTED MANHOLE CONNECTION (DUAL WALL)

INSTALLATION VIEW

CAST IRON GRATE AND FRAME

FILL VOID SPACE WITH ACCEPTABLE GROUT MATERIAL

STAINLESS STEEL TAKE-UP CLAMP (2 PLACES)

NON-SHRINK PATCHING COMPOUND

STRUCTURE WALL

DUAL WALL PIPE

ENSURE BACKFILL IS PLACED UNDER PIPE AND PROPERLY COMPACTED

DETAILED CONNECTION VIEW

STAINLESS STEEL TAKE-UP CLAMP

STAINLESS STEEL TAKE-UP CLAMP SCREWS WILL BE PLACED 180° FROM EACH OTHER

TABLE 3, MINIMUM RECOMMENDED COVER BASED ON VEHICLE LOADING CONDITIONS

PIPE SIZE (IN)	PIPE OD (IN)	"A" MIN. HOLE Ø (IN)		"B" MIN. DISTANCE PIPE INVERT TO STRUCTURE INVERT (IN)
		12"	48"	
12	14.5	18.0	3.7	
16	17.6	23.0	4.0	
18	21.2	26.0	4.2	
24	27.8	33.25	4.5	
30	36.1	40.50	5.2	
36	41.1	47.00	5.5	
42	47.2	53.00	5.7	
48	53.8	59.00	5.7	
60	66.3	72.00	6.4	

NOTES:

PERFORMANCE HIGHLY DEPENDENT ON INSTALLATION. CONTRACTOR MUST ENSURE MANHOLE GASKET IS UNIFORMLY SEATED AROUND STRUCTURE ADAPTER. EXTRA PRECAUTIONS MUST BE TAKEN TO PREVENT DIFFERENTIAL SETTLEMENT BETWEEN THE PIPE AND MANHOLE.

COA WATERSTOP GROUTED MANHOLE CONNECTION DETAIL

DATE

END

MTS

OF

CERTIFICATE OF SUBSTANTIAL COMPLIANCE ON PLANS

I, Jeff M. Boyd of the firm Western Technologies, 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 constructed in accordance with the plans and specifications approved by the city Engineer and 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 NMPS 9750.

Jeff M. Boyd P.E.
NMPE #12412

Date: January 28, 2016

Bohannon & Huston

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REVISIONS

No.	Date	By
1	DATE: 05/2011	SJS
2	DATE: 05/2011	DH
3	DATE: 05/2011	SJS

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

VALLE PRADO UNIT 3 MISCELLANEOUS UTILITY DETAILS

Design Review Committee

City Engineer Approval

Last Design Update

City Project No. 740583

Zone Map No. C-09-Z

Sheet 14 Of 14