

LOCATION MAP

SHEET INDEX

TITLE SHEET C-2SITE PLAN

DETAILS C-3STANDARD TRAFFIC CONTROL PLAN STANDARD TRAFFIC CONTROL PLAN C-4

SUMMARY OF QUANTITIES

ITEM	DESCRIPTION	UNIT	QUANTITY
1	8" PVC SEWER PIPE SDR 35	LF	800
2	4' DIAMETER MANHOLE	EACH	3
3	TRENCHING AND BACKFILLING 0-6'	LF	350
4	TRENCHING AND BACKFILLING 6'-8'	LF	350
5	TRENCHING AND BACKFILLING 8'-10'	LF	100
6	SERVICE CONNECTION 4" PVC	EACH	4
7	PAVEMENT REPAIR PER CITY STANDARD	LUMP SUM	1
COMMISSION OF STREET,			

PROJECT DESCRIPTION AND PURPOSE THIS PROJECT IS TO PROVIDE SEWER SERVICE TO 4 HOUSES LOCATED ON A PRIVATE ROAD OFF GUADALUPE TRAIL NW BY GRAVITY FLOW SEWER.

GENERAL NOTES

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986 AS AMENDED THROUGH UPDATE 6 WILL BE REFERED TO AS THE STANDARD SPECIFICATIONS 2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE THE LOCATION OF EXISTING UTILITIES.

3. PRIOR TO ANY CONSTRUCTION THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ANY OBSTRUCTIONS. SHOULD A CONFLICT EXIST THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY. 4. ALL EXISTING SIGNS MARKERS, DELINEATORS, ETC. WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED STORED AND RESET BY THE CONTRACTOR.

5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PROIR TO STARTING WORK IN ORDER THAT THE ENGINEER TAKE THE NECESSARY MEASURES TO INSURE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR SHALL NOT DISTRUB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT ARE DISTRUBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE PAVEMENT ELEVATION OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED THE CONTRACTOR SHALL AT HIS OWN EXPENSE ADJUST THE MONUMENT TO THE NEW GRADE, UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE SPECIFICATIONS.

6. FIVE (5) WORKING DAYS PRIOR TO THE BEGINING OF CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION CORDINATION DIVISION. THE CONTRACTOR SHALL NOTIFY THE BARRICADE ENGINEER (768-2551) PRIOR TO CLOSING THE STREET.

7. ANY WORK WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.

<u>BENCHMARK</u>

ACS BRASS CAP DOUGLAS AZIMUTH - ELEVATION 4973.71' LOCATED AT THE CORNER OF GUADALUPE TRAIL AND MONTANO TBM 4973.99 SPIKE IN POWER POLE NORTH WEST CORNER OF WEST PROPERTY

MICHELLE HARRIS PROJECT GUADALUPE TRAIL NW SEWER SYSTEM

JANUARY, 2000

BURTON ENGINEERS, INC 2900 VISTA GRANDE NW ALBUQUERQUE, NM 87120 (505)839 - 9365

STANDARD SPECIFICATION REFERENCES

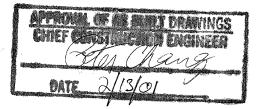
SECTION 121 PLASTIC PIPE SECTION 129 DUCTILE IRON PIPE SECTION 701 TRENCHING, EXCAVATION AND BACKFILL SECTION 400 TRANSFIC CONTROL
SECTION 900 SANITARY AND STORM SEWER FACILITIES
STANDARD DETAIL DRAWING 2101 SEWER MANHOLE TYPE "C"
STANDARD DETAIL DRAWING 2107 SEWER MANHOLE TYPE "E" STANDARD DRAWING NO. 2116 SEWER VERTICAL DROP AT MANHOLE STANDARD DRAWING NO. 2125 SEWER SERVICE LINE DETAILS STANDARD DRAWING NO. 2110 SEWER MANHOLE FRAMES AND COVERS STANDARD DRAWING NO. 2465 PAVING CITYWIDE PAVEMENT CUTS FOR ALL UTILITIES

CONSTRUCTION NOTES

1. PROVIDE A NEW CONNECTION TO THE EXISTING SEWER LINE IN GUADELUPE TRAIL IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STD. DRAWINGS

CITY WATER SHUT-OFF

NO CITY WATER SERVICE WILL BE SHUT-OFF OR INTERRUPTED BY THIS PROJECT.



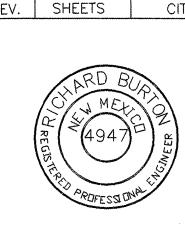
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BURTON ENGINEERS, INC. 2900 VISTA GRANDE NW ALBUQUERQUE, NM 87120 (505) 839-9365

ENGINEER'S CERTIFICATION

1, RICHARD BURTON, BEING A REGISTERED ENGINEER IN THE STATE OF NEW MEXICO DO HERBY CERTIFY THAT THE AS-BUILT INFORMATION SHOWN HEREON IS BASED ON ACTUAL FIELD MEASUREMENTS MADE BY BURTON ENGINEERS, INC. FIELD PERSONNEL AND AS OF THIS DATE THE AS-BUILT CONDITION IS AS SHOWN HEREON.

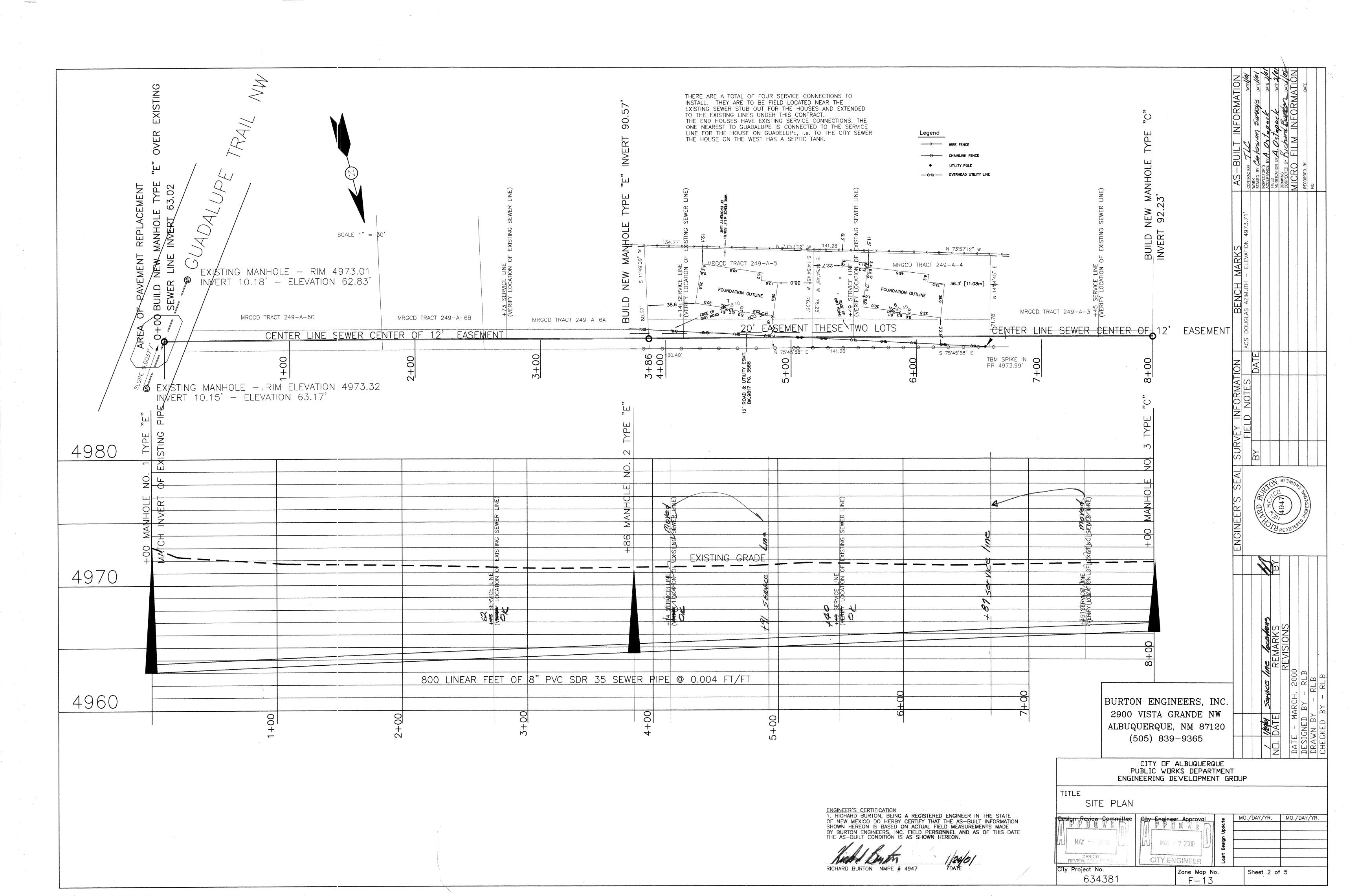
RICHARD BURTON NMPE # 4947

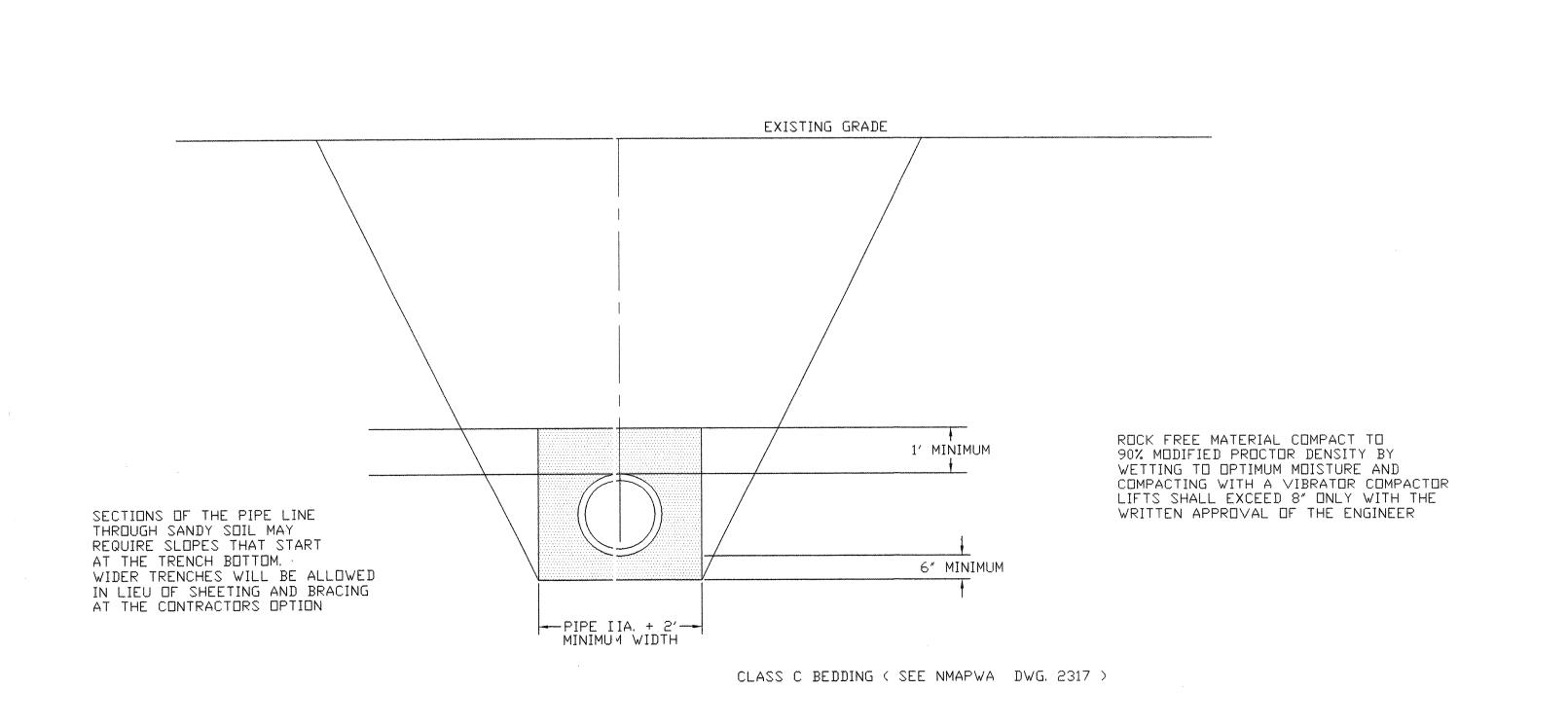


DATE USER DEPARTMENT DATE USER DEPARTMENT CITY ENGINEER DATE XXXXXXXXXX 5-8-6 APPROVED FOR CONSTRUCTION DRC Chariman G8NEEder, R.E. 4/20/00 Transportation Water/Wastewater Hydrology Parks Constr. Mngmt.

> 5-6-00 City Project No. 634381

TITLE SHEET C-1





TYPICAL SEWER LINE TRENCH SECTION

ENGINEER'S CERTIFICATION

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SHOWN HEREON IS BASED ON ACTUAL FIELD MEASUREMENTS MADE
BY BURTON ENGINEERS, INC. FIELD PERSONNEL AND AS OF THIS DATE
THE AS—BUILT CONDITION IS AS SHOWN HEREON.

RICHARD BURTON NMPE # 4947 DATE

2900 ALBUQ	N ENGINEERS, INC. VISTA GRANDE NW UERQUE, NM 87120 05) 839-9365	NO. DATE DATE - MARCH, DESIGNED BY - DRAWN BY -
	CITY OF ALBUQUERQUE JBLIC WORKS DEPARTMENT WEERING DEVELOPMENT GR	
TITLE DETAILS		
Design Review Committee MAY - 2000 DESIGN REVIEW COMMITTEE	City Engineer Approval MAY 17 2000 CITY ENGINEER CITY ENGINEER	MO./DAY/YR. MO./DAY/YR.
City Project No. 634381	Zone Map No. F-13	Sheet 3 of 5

SEAL SURVEY INFORMATION
FIELD NOTES
BY
BY
DATE

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- . 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 ()BTAINED 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 WE'RE 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
- 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 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 DITHERWISE 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.

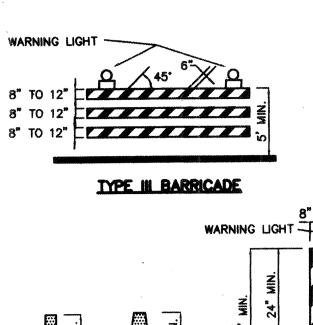
- 21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.
- 22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH 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. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER
- 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. 3
- 27. CONTRACTOR SHALL MAINTAIN A GRAFFITI FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY. 4

SPECIAL

SIGN

SPECIAL

SPECIAL



8" TO 12"

8" TO 12"

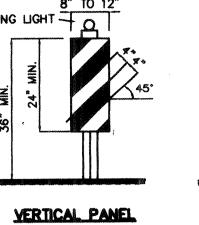
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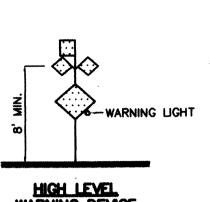
8" TO 12"

COLLAPSIBLE

BASE VARIES

CONES





HIGH LEVEL WARNING DEVICE

TERMINATION AREA

ADVANCE WARNING AREA

WORK AREA

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

DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL

SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET

TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

LEGEND

BARRICADE - TYPE I, TYPE II, OR BARREL

EQUAL TO THE SPEED LIMIT OF THE STREET

TAPER LENGTH - SEE CHART BELOW

BARRICADE - TYPE III

VERTICAL PANEL

TRAFFIC CONTROL ELEMENTS

G20-2

TYPE III /

R11-2a

W1-6(L) TAPER AREA

TAPER REQUIREMENTS

SPEED LIMIT	TAPER LENGTH (L) (FEET)			MINIMUM NUMBER	MAXIMUM DEVICE SPACING 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

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

TAPER CRITERIA

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

40 MPH OF	≀ LESS	$L = \frac{WS^2}{60}$
45 MPH OF	GREATER	$L = W \times S$

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SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS											
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