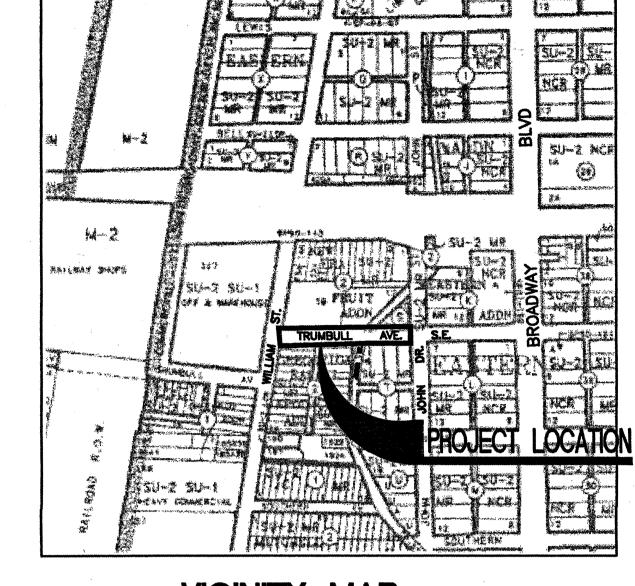


CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

TRUMBULL AVE. AND WILLIAM ST. SEWER IMPROVEMENTS

DRAWING LIST

- TITLE SHEET
- GENERAL NOTES, LEGEND AND DETAILS
- PLAN AND PROFILE
- SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS
- TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES (REF. M.U.T.C.D.)



VICINITY MAP
MAP NO. L-14

APPROVAL OF RECORD DRAWINGS
CHIEF CONSTRUCTION ENGINEER



REV. SHEETS CITY ENGINEER DATE USER DEPARTMENT DATE USER DEPARTMENT DATE ENGINEER ENGINEERS STAMP & SIGNATURE APPROVALS Transportation | 1.17-00 | 1.17-00 | Water/Wastewater Robita C. Trik | 12.28.99 | Hydrology | N/A Magney | 1/14/00 Hydrology Parks 2-1-00 City Engineer Constr. Mngmt.

12-29-99

Constr. Coord. Jel. Kush

City Project No. 6163.91

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- ALL WORK DETAILED ON THESE DRAWINGS TO BE PERFORMED UNDER THIS CONTRACT SHALL, EXCEPT AS OTHERWISE STATED, BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 AS AMENDED THROUGH UPDATE NO. 6, HEREBY REFERRED TO AS THE SPECIFICATIONS. REFERENCES MADE TO STANDARD DRAWINGS IMPLY THAT SECTION OF THE SPECIFICATIONS, WHICH INCLUDES MISCELLANEOUS STANDARD DETAILS.
- 2. LOCATION OF UTILITIES ARE APPROXIMATE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL PERTINENT UTILITIES IN THE FIELD. CALL ONE CALL SYSTEM, INC. AT 260-1990 TWO WORKING DAYS BEFORE ANY EXCAVATION.
- 3. IT IS THE CONTRACTOR'S RESPONSIBILITY TO SUPPORT ALL UTILITIES EXPOSED DURING CONSTRUCTION. CONTRACTOR WILL BE RESPONSIBLE FOR DAMAGE TO ALL UTILITIES, INCLUDING SERVICE LINES.
- 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 PUBLIC WORKS DEPARTMENT SO THAT THE CONFLICT CAN BE RESOLVED WITH MINIMUM AMOUNT OF DELAY.
- 5. FIVE (5) 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 BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. SEE SECTION 19 OF THE SPECIFICATIONS.
- 6. REMOVE AND REPLACE ALL BROKEN OR DAMAGED CURB AND GUTTER AND SIDEWALK ALONG TRUMBULL.
- 7. REPLACE ALL CURB RETURNS WITH ADA COMPLIANT WHEELCHAIR RAMPS WHERE NONE EXIST.
- 8. ALL PAVEMENT MARKINGS OR OTHER TRAFFIC CONTROL DEVICES INCLUDING TRAFFIC SIGNAL CONDUIT, ADVERSELY AFFECTED BY CONSTRUCTION SHALL BE REPLACED IN PRECONSTRUCTION CONDITION. THESE COSTS SHALL BE INCIDENTAL TO THE PROJECT. PAVEMENT MARKINGS SHALL BE REPLACED WITH PLASTIC.
- 9. CONTRACTOR SHALL COORDINATE WITH PNM (JIM VANN 848-3426) WHERE LIP OF TRENCH IS LESS THAN 5' TO POWER POLE. COSTS ASSOCIATED WITH SUPPORT OF EXISTING POLES SHALL BE INCIDENTAL TO THE PROJECT.
- 10. CONTRACTOR SHALL BE CHARGED BY PNM FOR ANY DAMAGE TO PNM CABLES AND FOR SUPPORTING OF MINOR RELOCATIONS OF CABLES DURING CONSTRUCTION. THESE COSTS SHALL BE INCIDENTAL TO THE PROJECT.
- 11. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
- 12. STATIONING IS BASED ON CENTERLINE OF SANITARY SEWER, CENTERLINE MANHOLE TO CENTERLINE MANHOLE, UNLESS NOTED OTHERWISE.
- 13. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY DEFECTIVE OR DETERIORATED CONDITION UPON VISUAL INSPECTION OF EXISTING SERVICE LINES.
- 14. ON EXISTING SEWER MANHOLES THAT ARE TO BE ABANDONED IN PLACE, REMOVE AND RETURN THE EXISTING RING AND COVER AND ABANDON THE MANHOLE AS PER SECTION 920.6.
- 15. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE AND RECONNECT ALL EXISTING SEWER SERVICE CONNECTIONS.
- 16. SANITARY SEWER SERVICE RECONNECTIONS AND TRANSFERS SHALL BE PAID FOR IN ACCORDANCE TO THE UNIT PRICE LISTED ON THE BID PROPOSAL. HOWEVER, THOSE CONNECTIONS DAMAGED WHILE PERFORMING THE WORK UNDER THIS PROJECT SHOULD BE REPLACED, AT NO ADDITIONAL COST TO THE CITY.
- 17. ALL SANITARY SEWER MANHOLES SHALL BE BUILT IN ACCORDANCE WITH THE CITY OF ALBUQUERQUE STANDARD DRAWINGS 2101 AND 2102. ALL SANITARY SEWER MANHOLES SHALL BE 4 FEET IN DIAMETER UNLESS OTHERWISE NOTED.
- 18. ELECTRONIC MARKER DISCS SHALL BE INSTALLED PER SECTION 170 OF THE TECHNICAL SPECIFICATIONS.
- 19. CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING OR WORKING AROUND EXISTING STEEL LINES TO AVOID ELECTRICAL SHOCK. ELECTRICAL BONDS OR JUMPERS ARE RECOMMENDED TO BE USED PRIOR TO SEPARATING STEEL LINES.
- 20. CONTRACTOR SHALL COORDINATE WITH THE GAS COMPANY OF NEW MEXICO (761-7752) TWO WEEKS PRIOR TO NEEDING A GAS LINE SEGMENT RELOCATED.
- 21. PARALLEL WATER AND SEWER LINES SHALL BE LAID AT LEAST 10 FEET APART HORIZONTALLY AND THE WATERLINE SHOULD BE AT A HIGHER ELEVATION THAN THE SEWER.

- 22. WHEN WATERLINE AND SEWER LINES CROSS EACH OTHER, THE WATERLINE SHALL BE AT LEAST EIGHTEEN (18) INCHES ABOVE THE SEWER. THE CROSSING SHALL BE ARRANGED SO THAT THE SEWER JOINTS WILL BE EQUIDISTANT AND AS FAR AS POSSIBLE FROM THE WATERLINE JOINTS. ALL SEWER PIPE SHALL BE PRESSURE PIPE OR ENCASED IN CONCRETE 10 FT EACH WAY FROM CROSSING.
- 23. 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 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 SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION 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.
- 24. ALL EXISTING SANITARY SERVICES SHALL BE RECONNECTED TO THE NEW SEWER MAIN AS PER CITY OF ALBUQUERQUE STANDARD DRAWING 2125.
- 25. EXISTING MANHOLE FLOORS SHALL BE REHABILITATED AS PERCITY OF ALBUQUERQUE STANDARD DRAWINGS 2101 AND 2102.
- 26. PRIOR TO THE START OF CONSTRUCTION, ALL ADJACENT PROPERTY OWNERS SHALL BE GIVEN NOTIFICATION BY THE CONTRACTOR OF THE FORTHCOMING CONSTRUCTION IN ACCORDANCE WITH SECTION 701 OF THE STANDARD SPECIFICATIONS. THIS NOTIFICATION WILL INCLUDE THE DETERMINATION OF THE LOCATION OF NEW SANITARY SERVICE CONNECTIONS OR THE CONDITION OF AN EXISTING SANITARY SERVICE LINE TO BE RECONNECTED TO THE NEW SEWER MAIN.
- 27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING ACCESS TO ALL ADJACENT PROPERTIES.
- 28. ALL EXCAVATION, TRENCHING, AND SHORING ACTIVITIES MUST BE CARRIED OUT IN ACCORDANCE WITH OSHA 29CFR 1926.650 SUBPART
- 29. CONTRACTOR IS ADVISED TO VISIT THE PROJECT SITE PRIOR TO BIDDING AND FAMILIARIZE THEMSELVES WITH FIELD CONDITIONS INCLUDING THE LOCATION OF UTILITIES SHOWN ON THE PLANS AND OTHER UTILITIES/OBSTACLES CLEARLY VISIBLE IN THE FIELD. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PLAN THEIR CONSTRUCTION METHODS TO ADEQUATELY SUPPORT AND/OR AVOID ALL UTILITIES SHOWN ON THE PLANS AND ALL UTILI-TIES/OBSTRUCTIONS CLEARLY VISIBLE IN THE FIELD. ANY RELOCATION OF UTILITIES/OBSTACLES SHOWN ON THE PLANS OR VISIBLE IN THE FIELD. ANY RELOCATION OF UTILITIES/OBSTACLES SHOWN ON THE PLANS OR VISIBLE IN THE FIELD, IN ORDER TO COM-PLETE THE REQUIRED WORK, WILL BE CONSIDERED TO BE CONTRACTOR CONVENIENCE AND BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS THE UTILITY/OBSTRUCTION IS IDENTIFIED ON THE PLANS AS BEING RELOCATABLE AS PART OF THE PROJECT. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDI-NATE ALL REQUIRED RELOCATIONS WITH APPROPRIATE UTILI-TIES/INDIVIDUALS.

TACK COAT AS REQUIRED BY THE ENGINEER BETWEEN ALL 1-1/2" ASPHALT CONCRETE ASPHALT/ACCREGATE MATERIAL 111 TYPICAL FINISH COURSE PLACED LIFTS. 111 AFTER ALL MANHOLE. VALVES COVERS/RINGS ARE SET TO 111 CRADE. 1500 LBS. STABILITY 1-1/2" ASPHALT CONCRETE, 111 111 TYPE B CRADATION. 1500 LBS. STABILITY, TYPE A 111 111 GRADATION. FINISH SURFACE OF SUBGRADE SHALL BE MOISTURE CONTROLLED 1' SUBGRADE SOIL. R-VALUE > 1111111 AT COMPACTION MOISTURE 50. PLACED IN 2-6" ,,,,,,,,,, RANGE, OR PRIME COAT APPLIED COMPACTED LIFTS. 95% MIN. AS REQUIRED BY THE ENGINEER COMPACTION, AT OPT. MOISTURE ,,,,,,,,, UNTIL NEXT/FINAL SURFACING +/- 2.0%, ASTM D1557, OR ,,,,,,,,, COMPLETED SUBGRADE OPT. MOISTURE, TO +4%, ASTM 1111111 PREPARATION SHALL BE D698 FOR SOIL W/35% OR MORE 1/11/11/ PERFORMED AFTER ALL MATERIAL PASSING THE NO. SUBSURFACE R/W UTILITIES 200 SIEVE. CONSTRUCTION COMPLETED. 1 1 1 1 90% MIN. COMPACTION. / / / / FLEXIBLE PAVEMENT SECTION

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Holmes & Narver

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: TRUMBULL AVE. AND WILLIAM ST.
SEWER IMPROVEMENTS
GENERAL NOTES, LEGEND AND DETAILS

Design Raylew Committee City Engineer Approval
Review COMMITTEE

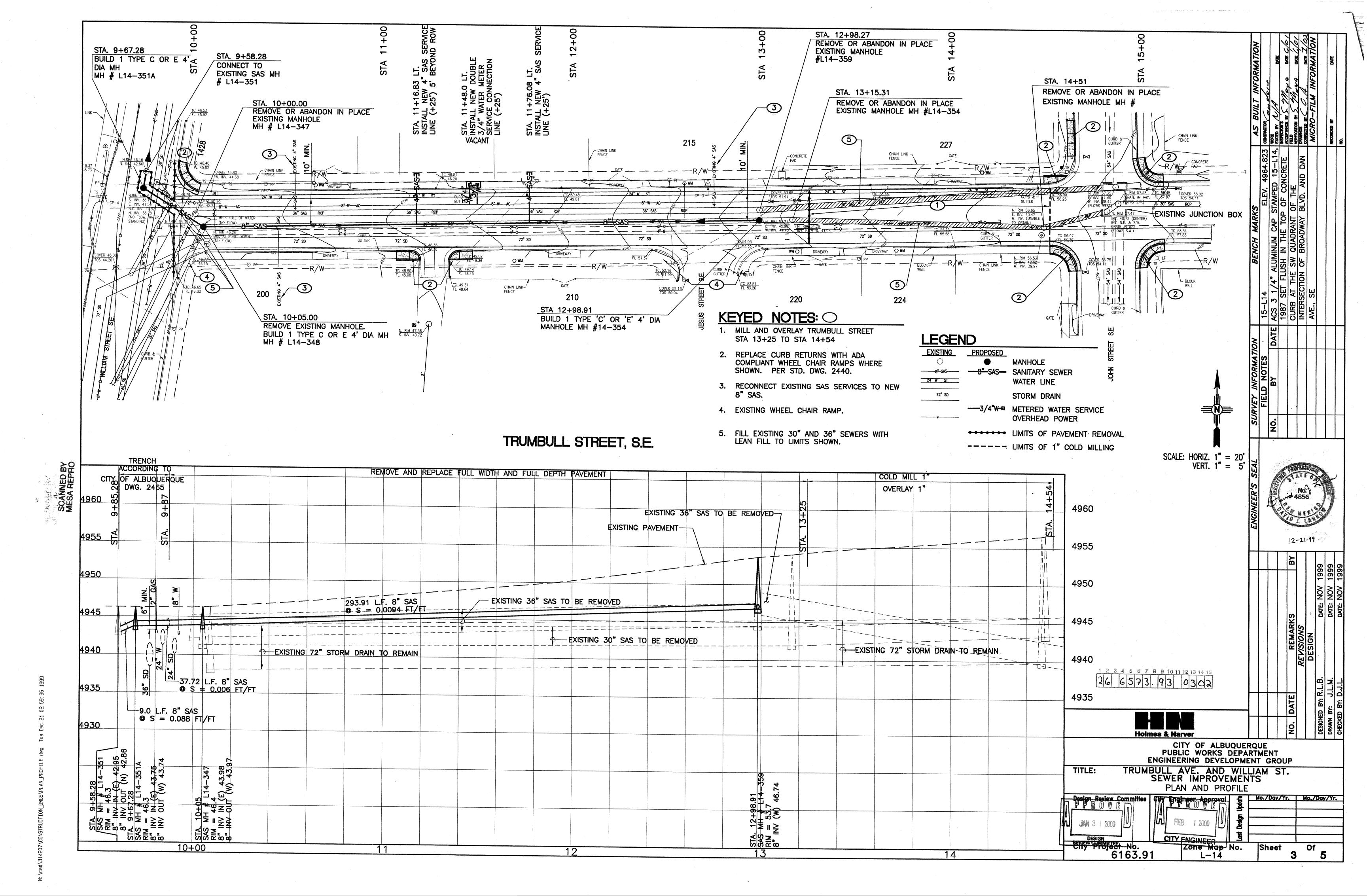
CITY ENGINEER

CITY ENGINEER

CITY Project No.
6163.91

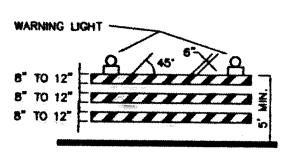
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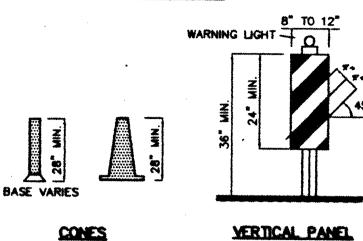


- 2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED 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 MUTCH 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 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 MUTCH, 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: 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
- 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. 4

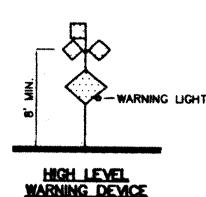


TYPE III BARRICADE



BARREL

8" TO 12"



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

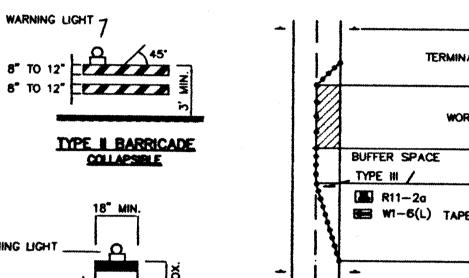
> WARNING SIGN DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET

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

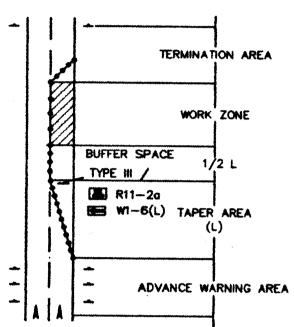
LEGEND

TAPER LENGTH - SEE CHART BELOW

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



TRAFFIC CONTROL ELEMENTS



TAPER REQUIREMENTS

SPEED	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 DIS BETWEEN SIGNS	TANCE IN FEET 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					

TAPER CRITERIA

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

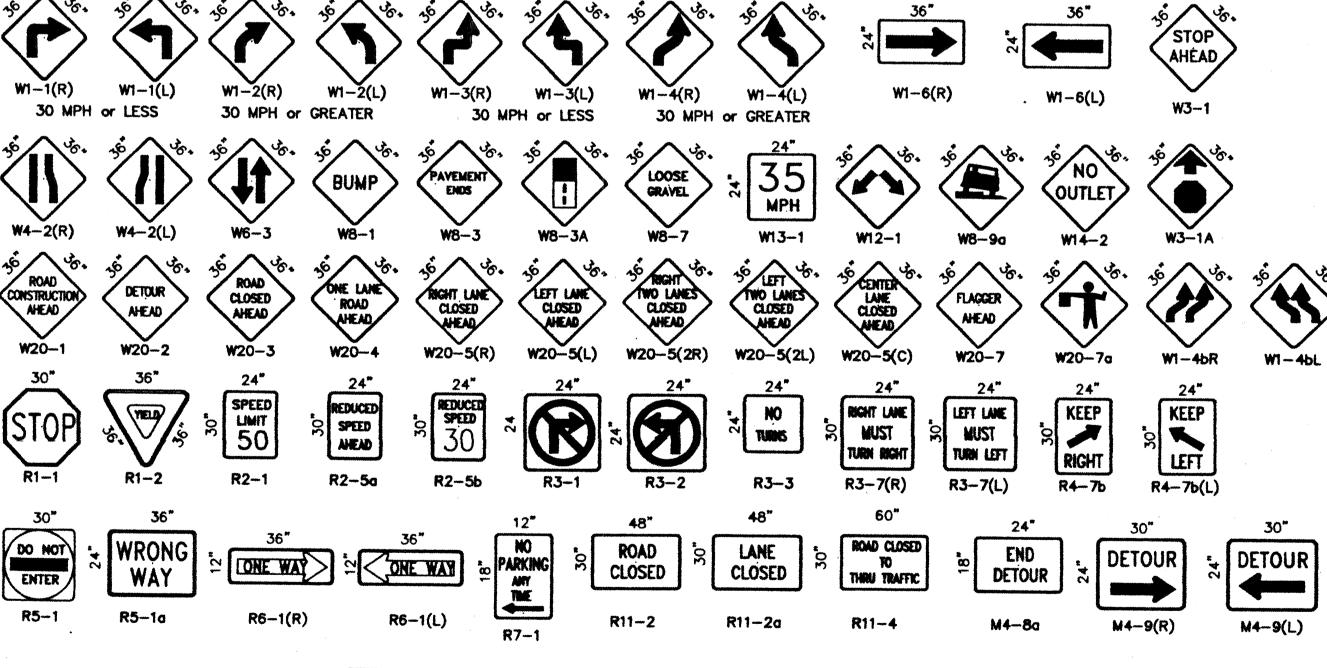
SPEED LIMIT			
40 MPH OR LESS	L	382	₩. 60
45 MPH OR GREATER	L	***	W

W = WIDTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

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SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS											
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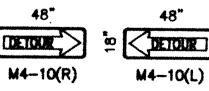
J.D. J.D. B. J

SIGN FACE DETAILS



THIRU TRAFFIC KEEP LEFT SPECIAL SPECIAL SPECIAL SIGN

ACCESS ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.



CONSTRUCTION G20-2

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

