

| | | | | | | | | | | | | | | |
|---|----|---|---|---|---|---|---|---|----|----|----|----|----|----|
| 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 2 | 10 | - | 6 | 6 | 0 | 5 | . | 8 | 1 | - | 0 | 8 | | |

GENERAL NOTES

1. AN EXCAVATION/CONSTRUCTION PERMIT 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 #6.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) 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. FIVE (5) WORKING DAYS PRIOR TO BEGINNING OF 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 (768-2551) PRIOR TO OCCUPYING AN INTERSECTION. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.
6. ALL WORK AFFECTING ARTERIAL ROADWAYS REQUIRES TWENTY-FOUR HOUR CONSTRUCTION.
7. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC RECOLORIZED 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 ANY PERMANENT SURVEY MONUMENT WITHOUT THE CONSENT OF THE CITY SURVEYOR AND SHALL NOTIFY THE CITY SURVEYOR AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED. CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT TO COVER THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAVE BEEN RECORDED.
9. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FROM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
10. CONTRACTOR SHALL COORDINATE WITH THE CITY OF ALBUQUERQUE WATER SYSTEMS DIVISION (857-8200) FIVE (5) WORKING DAYS IN ADVANCE OF ANY WORK THAT MAY AFFECT EXISTING PUBLIC WATER OR SEWER UTILITIES. EXISTING VALVES TO BE OPERATED BY CITY PERSONNEL ONLY. CONTRACTOR SHALL ADVISE THE WATER SYSTEMS DIVISION THREE (3) WORKING DAYS PRIOR TO BEGINNING OF TURNING ON THE WATER.

☒ ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.

☒ BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.

☐ TACK COAT REQUIREMENTS SHALL BE DETERMINED BY THE CITY ENGINEER.

☐ SIDEWALK AND WHEELCHAIR RAMPS WITHIN THE CURB RETURNS SHALL BE CONSTRUCTED WHEREVER A NEW CURB RETURN IS CONSTRUCTED.

☐ IF CURB IS DERESSED 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.

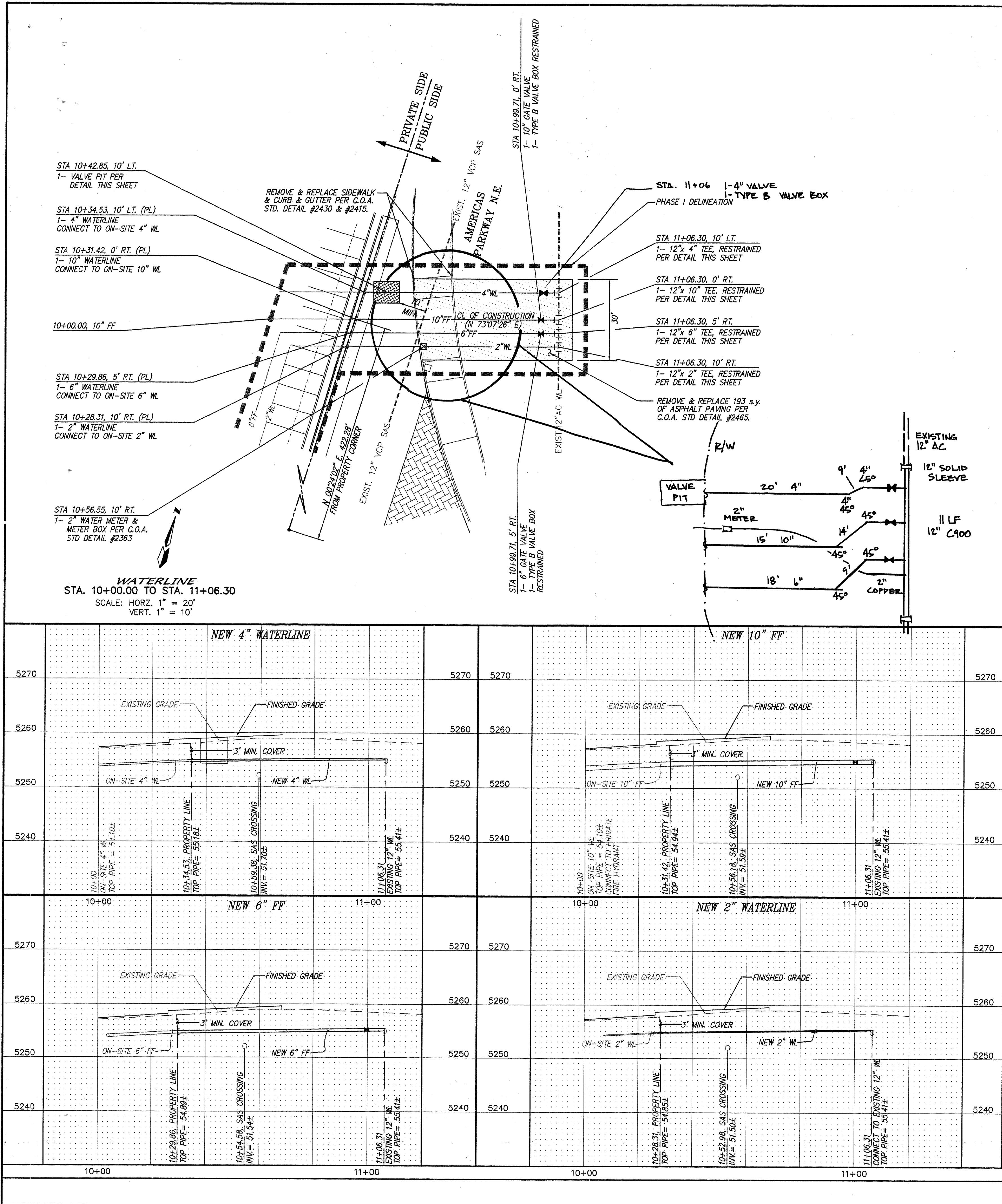
| SHEET NO. | SHEET |
|-----------|--|
| 1 | TITLE SHEET |
| 2 | WATER LINE IMPROVEMENTS |
| 3 | SANITARY SEWER IMPROVEMENTS |
| 4 | TYPICAL TRAFFIC CONTROL & SIGNING EXAMILES |
| 5 | SIGNING & CONSTRUCTION TRAFFIC CONTROL STANDARDS |

CAUTION:
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dmg D. MARK GOODWIN & ASSOCIATES, P.A.
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(505) 828-2200, FAX (505) 797-9539

FOR INFORMATION
ONLY
Inspector Verified
Anthony Long 02/20/08

| | | | | | | | | |
|---|--------|---------------|------------------|--------------------|---------|---------------------------|------|--|
| REV. | SHEETS | CITY ENGINEER | DATE | USER DEPARTMENT | DATE | USER DEPARTMENT | DATE | |
| ENGINEERS STAMP & SIGNATURE | | | APPROVALS | ENGINEER | DATE | ***** | | |
|  | | | DRC CHAIRMAN | <i>[Signature]</i> | 5-2-01 | APPROVED FOR CONSTRUCTION | | |
| | | | TRANSPORTATION | <i>[Signature]</i> | 5/02/01 | | | |
| | | | WATER/WASTEWATER | <i>[Signature]</i> | 5/02/01 | | | |
| | | | HYDROLOGY | <i>[Signature]</i> | 5/2/01 | | | |
| | | | CIP | | | | | |
| | | | CONSTR. MNGMT. | | | | | |
| | | | CONSTR. COORD. | <i>[Signature]</i> | 5-2-01 | CITY ENGINEER DATE | | |
| CITY PROJECT NO. | | | 6600.81 | | | SHEET OF 1 5 | | |

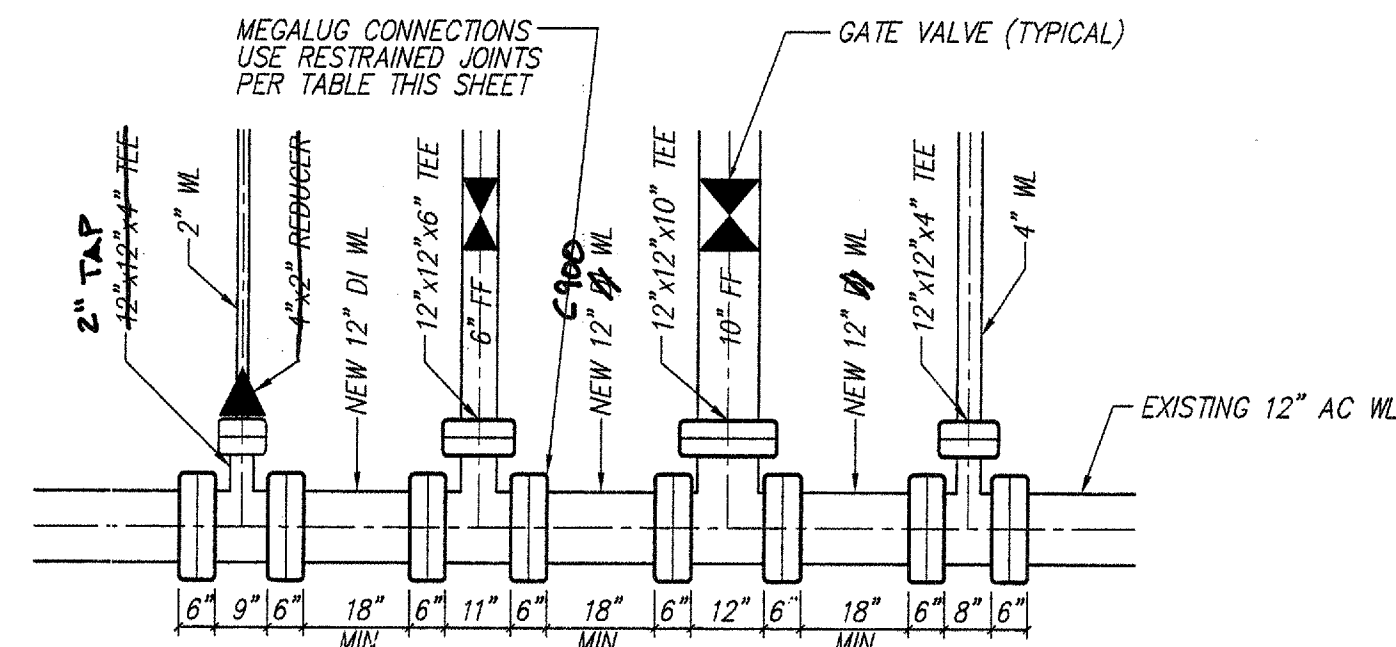
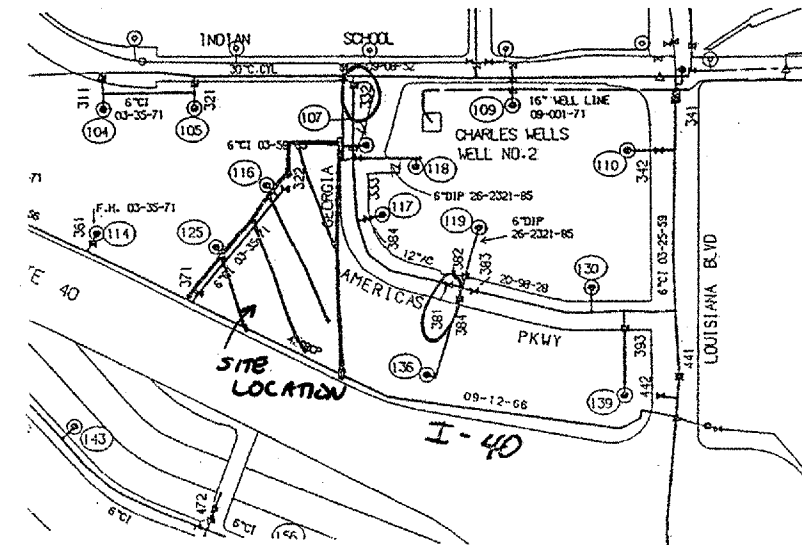


NOTES

- ALL STATIONING IS CENTERLINE STATIONING.
- USE RESTRAINED JOINTS ON WATERLINES PER TABLE ON THIS SHEET.
- 3' MINIMUM BURY ON WATERLINES.

WATER SHUT-OFF PLAN

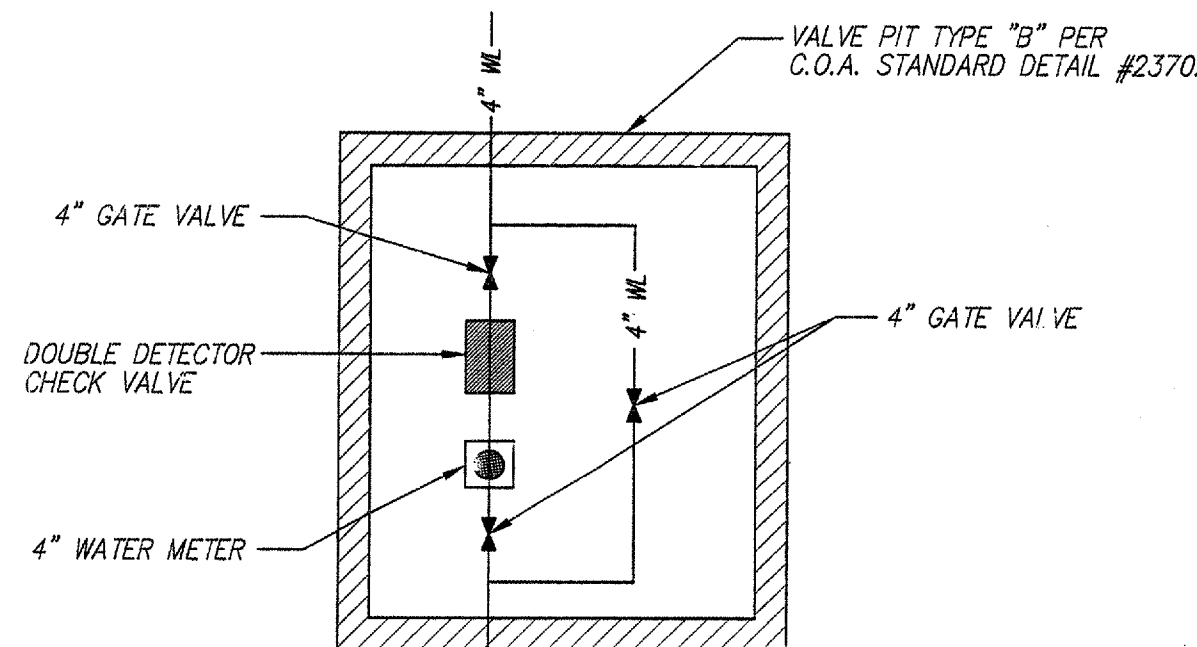
- CONTRACTOR WILL CONTACT WATER SYSTEMS AT 857-8200, FIVE (5) DAYS PRIOR TO NECESSARY SHUT-OFF.
- VALVES SHALL ONLY BE OPERATED BY CITY WATER EMPLOYEES.
- CLOSE VALVES #381 AND #332. BOTH ARE IN AMERICA'S PARKWAY PER DETAIL THIS SHEET. SEE WATERLINE CONNECTION DETAIL THIS SHEET.



- CAUTION: 1. EXISTING WATERLINE LIKELY TO BE FRAGILE. FOLLOW VALVE SHUT-OFF PLAN AS SHOWN ON THIS SHEET.
2. ENGINEER IS CONCERNED ABOUT FRAGILITY OF EXISTING WATERLINE. 12"x12"x4" TEE WITH REDUCER IS NECESSARY TO PROTECT EXISTING WATERLINE IN LIEU OF A STANDARD TAP.

WATERLINE CONNECTION DETAIL

N.T.S.



VALVE PIT DETAIL

N.T.S.

LEGEND

- EX 12" AC WL --- EXISTING WATER LINE
- EX 12" VCP SAS --- EXISTING SANITARY SEWER LINE
- 4" WL --- PROPOSED WATER LINE
- 10" FF --- PROPOSED FIRE LINE
- ⊗ PROPOSED WATER METER & METER BOX
- ⊕ PROPOSED WATER GATE VALVE
- ⊕ PROPOSED WATER LINE TEE
- ⊕ PROPOSED WATER VALVE PIT (SEE DETAIL THIS SHEET)
- PHASE LINE DELINEATION
- REMOVE & REPLACE SIDEWALK/CURB & GUTTER

RESTRAINED JOINT LENGTH FOR BENDS, VALVES, DEAD ENDS (FT.)

| PIPE SIZE | 90° | 45° | 22.5° | 11.25° | VALVE |
|-----------|-----|-----|-------|--------|-------|
| 4" | 12' | 5' | 2' | 1' | 32' |
| 6" | 17' | 7' | 3' | 2' | 46' |
| 8" | 22' | 9' | 4' | 2' | 60' |
| 10" | 26' | 11' | 5' | 3' | 72' |

LENGTH OF RESTRAINED PIPE ON EACH SIDE OF THE BEND. RESTRAIN BRANCH AT FITTING ONLY MINIMUM ATTACHED PIPE LENGTH, RUN SIDE OF TEE: 10.00 FEET.

RESTRAINED JOINT LENGTH FOR TEES (FT.)

| PIPE SIZE | RUN | BRANCH |
|--------------|-----|--------|
| 10"x 10"x 8" | 10' | 4' |

RESTRAINED JOINT LENGTH FOR TEES (FT.)

| PIPE SIZE | RUN | BRANCH |
|-------------|-----|--------|
| 12"x12"x10" | 13' | 1' |
| 12"x12"x8" | 5' | 1' |
| 12"x12"x4" | 2' | 6' |

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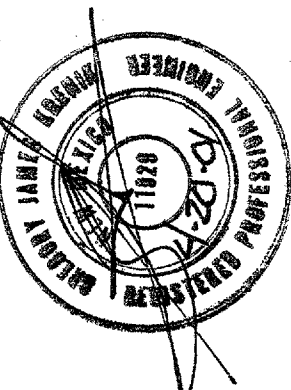
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **ALBUQUERQUE e-SUITES WATER LINE IMPROVEMENTS**

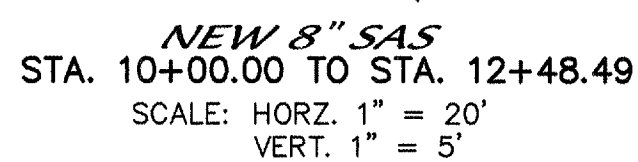
| | | | |
|-------------------------|------------------------|------------|------------|
| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR | MO./DAY/YR |
| APPROVED | APPROVED | | |
| DESIGN REVIEW COMMITTEE | CITY ENGINEER | | |

CITY PROJECT NO. **6600.81** ZONE MAP NO. **J-18** SHEET **2** OF **5**

| | | | | | | | |
|------------------------|-------|---|-------------|--------------------|------|-----------------|-----|
| AS BUILT INFORMATION | | BENCH MARKS | | SURVEY INFORMATION | | ENGINEER'S SEAL | |
| CONTRACTOR | DATE | ELEVATIONS SHOWN ARE SUD 1999 ELEVATIONS BASED ON AOS CONTROL STATION | FIELD NOTES | NO. | DATE | BY | NO. |
| J.P. HALE | 11/01 | 21+16.8 ELEVATION -5233.22 | | | | | |
| INSPECTOR'S | DATE | | | | | | |
| STAKED BY | DATE | | | | | | |
| FIELD | DATE | | | | | | |
| VERIFICATION BY | DATE | | | | | | |
| CORRECTED BY | DATE | | | | | | |
| MICRO-FILM INFORMATION | DATE | | | | | | |
| RECORDED BY | DATE | | | | | | |
| NO. | | | | | | | |



| | | | |
|-------------|-------|-------|-------|
| REMARKS | BY | DATE | DATE |
| | | 01/01 | 01/01 |
| DESIGNED BY | DATE | DATE | DATE |
| ALD | 01/01 | 01/01 | 01/01 |
| DRAWN BY | DATE | DATE | DATE |
| ACH | 01/01 | 01/01 | 01/01 |
| CHECKED BY | DATE | DATE | DATE |
| DWG | 01/01 | 01/01 | 01/01 |




1. CONSTRUCTION BASELINE IS CENTERLINE OF NEW 8" SAS.

| | |
|---------------------|------------------------------|
| SP | EXISTING POWER POLE |
| LT | EXISTING LIGHT POLE |
| GP | EXISTING GUARD POST |
| EB | EXISTING ELECTRIC BOX |
| TCB | EXISTING TRAFFIC CONTROL BOX |
| TR | EXISTING TELEPHONE RISER |
| GM | EXISTING GAS METER |
| FH | EXISTING FIRE HYDRANT |
| WM | EXISTING WATER METER |
| WV | EXISTING WATER VALVE |
| C/O | EXISTING CLEAN OUT |
| MH (STM) | EXISTING MANHOLE (STORM) |
| MH (SAN) | EXISTING MANHOLE (SANITARY) |
| -----X | EXISTING CHAIN LINK FENCE |
| EXIST.SAS----- | EXISTING SANITARY SEWER LINE |
| EXIST. 12" WL ----- | EXISTING SANITARY SEWER LINE |
| -10"WL----- | NEW WATER LINE |
| -8"SAS----- | NEW SANITARY SEWER LINE |
| ●----- | NEW SANITARY SEWER MANHOLE |
| ----- | NEW BUILDING |
| ----- | NEW CURB |
| X | NEW GATE VALVE |

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 CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: *ALBUQUERQUE e - SUITES
SANITARY SEWER IMPROVEMENTS*

DESIGN REVIEW COMMITTEE
APPROVED
MAY - 1 2001
DESIGN REVIEW COMMITTEE

CITY ENGINEER - APPROVAL

AUG 16 2001

CITY ENGINEER

CITY PROJECT NO.

ZONE MAP NO.

SHEET OF

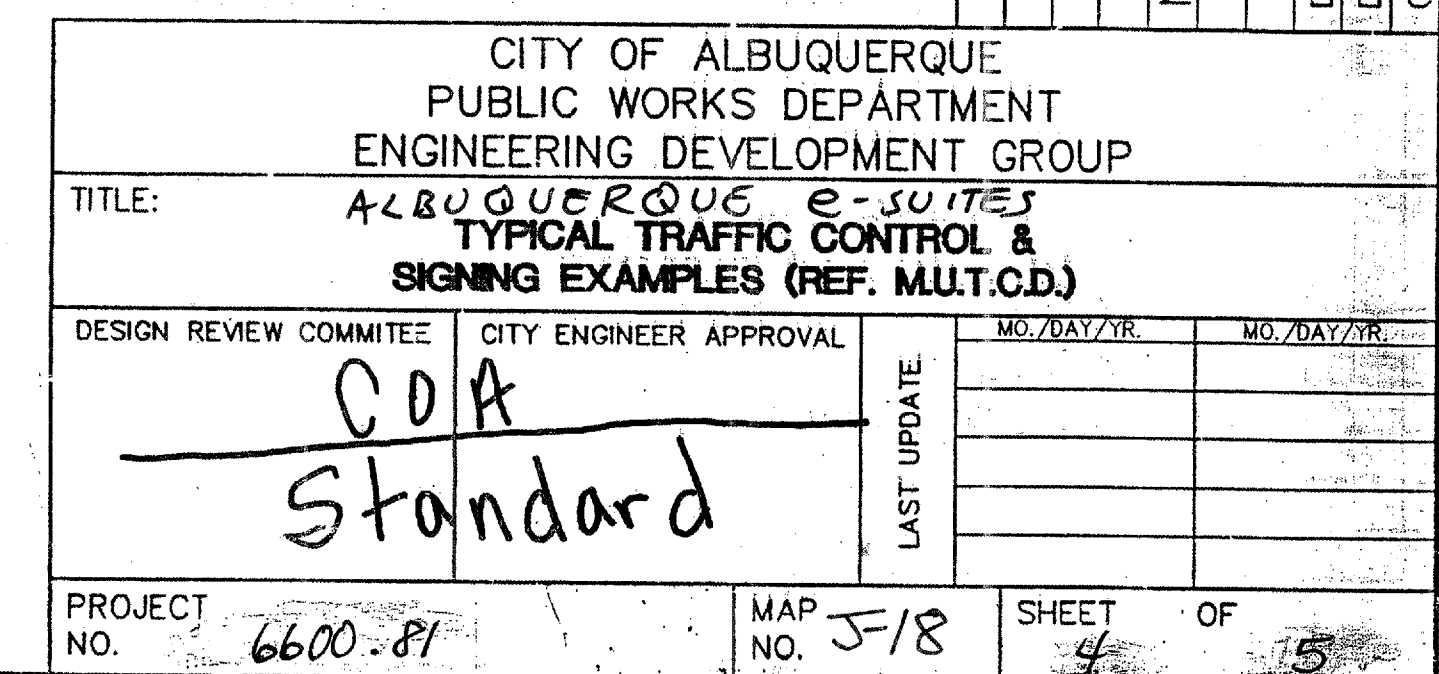
6600.81

J-18

3



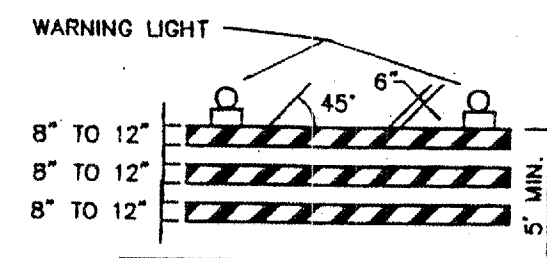
TYPICAL STREET CLOSURE
NOTE: (R1-1) BASED ON FIELD CONDITIONS.



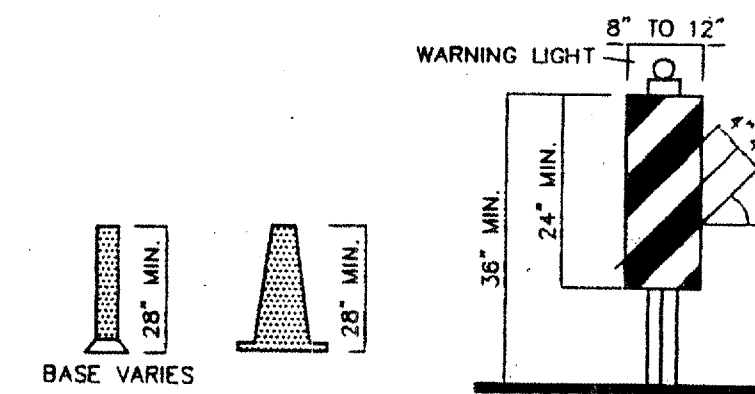
CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 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 WITHIN THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- 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.
- 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.
- CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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.
- ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24-HOUR PER DAY BASIS UNTIL COMPLETED.
- 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.
- 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.
- CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 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.
- 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.
- 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.
- ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

- 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.
- CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
 - STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
 - 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 SECTIONS.
- 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.
- ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.
- TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.
- CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPMENT, BOTH PERMANENT AND TEMPORARY.



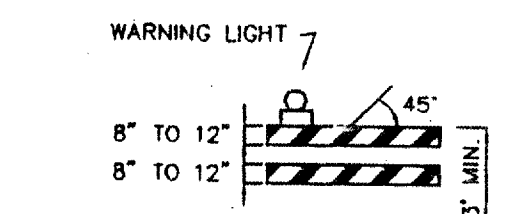
TYPE III BARRICADE



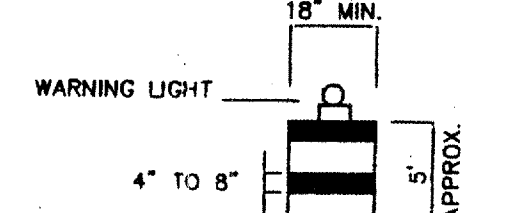
CONES

VERTICAL PANEL

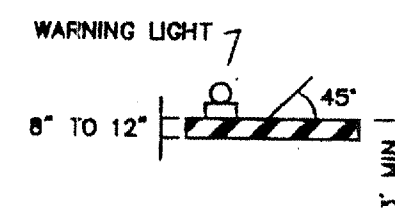
HIGH LEVEL WARNING DEVICE



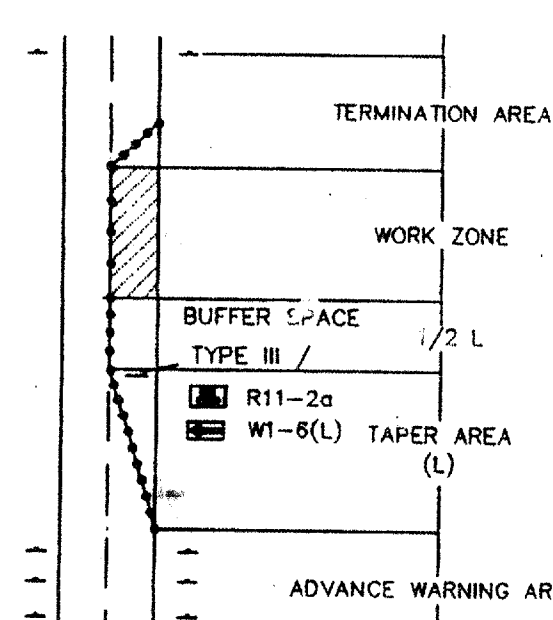
TYPE II BARRICADE



BARREL



TYPE I BARRICADE



TRAFFIC CONTROL ELEMENTS

LEGEND

- WORK AREA
- BARRICADE - TYPE I, TYPE II, OR BARREL
- BARRICADE - TYPE III
- VERTICAL PANEL
- WARNING SIGN
- DISTANCE BETWEEN SIGNS - A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- SPACING BETWEEN BARRICADES- A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- TAPER LENGTH - SEE CHART BELOW
- THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.

TAPER REQUIREMENTS

| SPEED LIMIT (MPH) | TAPER LENGTH (L) (FEET) | | | MINIMUM NUMBER OF DEVICES FOR TAPER | MAXIMUM DEVICE SPACING IN FEET | |
|-------------------|-------------------------|----------|----------|-------------------------------------|--------------------------------|-------------|
| | 10' LANE | 11' LANE | 12' LANE | | 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 LIMIT (MPH) | MINIMUM DISTANCE IN FEET BETWEEN SIGNS | MINIMUM DISTANCE 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 |

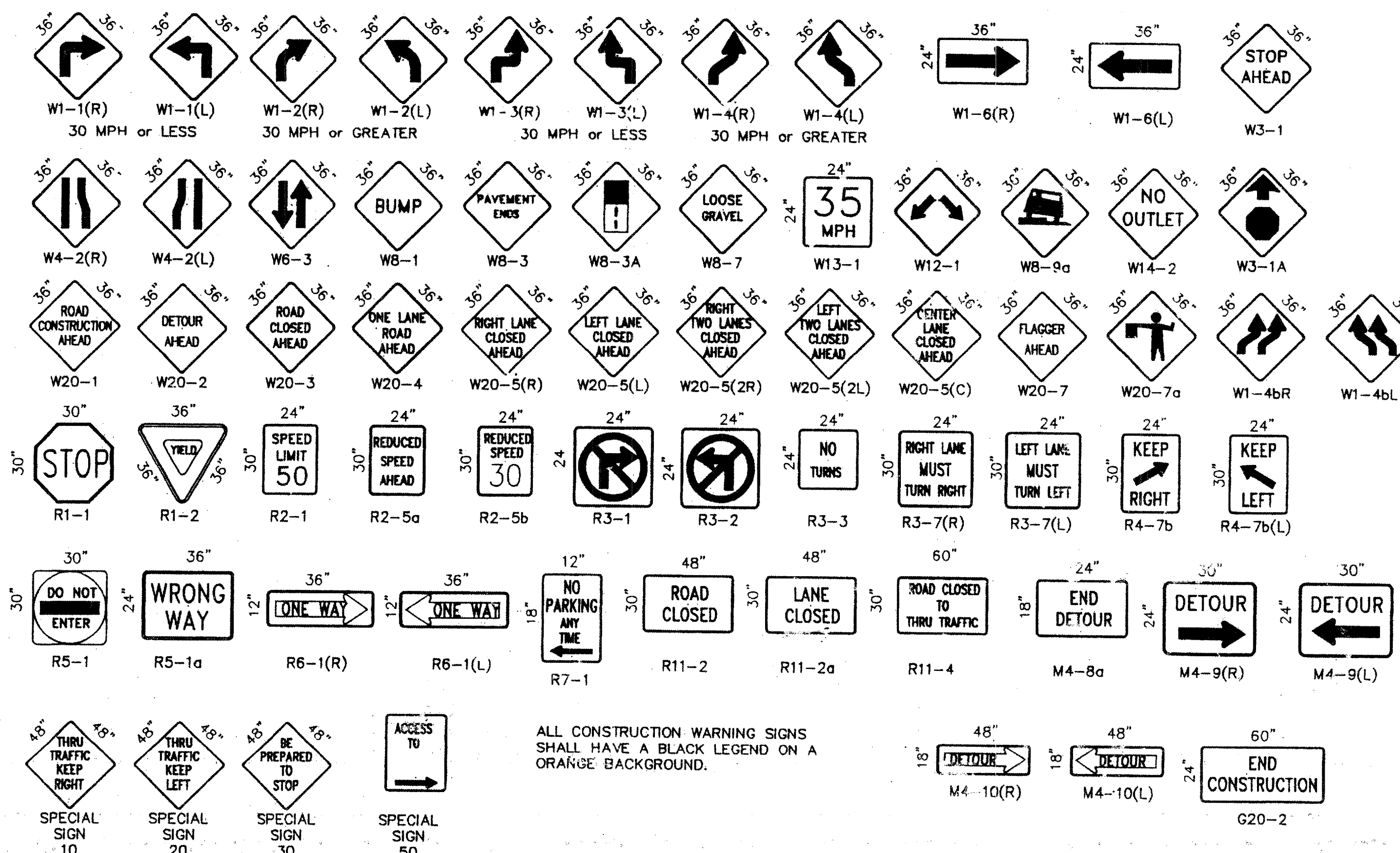
TAPER CRITERIA

| 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 | $L = \frac{WS^2}{60}$ |
| 45 MPH OR GREATER | $L = W \times S$ |
| L = TAPER LENGTH | |
| W = WIDTH OF OFFSET IN FEET | |
| S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH | |

SIGN FACE DETAILS



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

| AS BUILT INFORMATION | | | | BENCH MARKS | | | | SURVEY INFORMATION | | | | ENGINEER'S SEAL | | | | |
|----------------------|------|----|------|---------------|------|----|------|--------------------|----|------|-----|-----------------|------|-----|----|------|
| CONTRACTOR | DATE | BY | DATE | CONTRACTOR | DATE | BY | DATE | NO. | BY | DATE | NO. | BY | DATE | NO. | BY | DATE |
| STARTED BY | DATE | BY | DATE | STARTED BY | DATE | BY | DATE | NO. | BY | DATE | NO. | BY | DATE | NO. | BY | DATE |
| ACCEPTANCE BY | DATE | BY | DATE | ACCEPTANCE BY | DATE | BY | DATE | NO. | BY | DATE | NO. | BY | DATE | NO. | BY | DATE |
| REVISIONS | DATE | BY | DATE | REVISIONS | DATE | BY | DATE | NO. | BY | DATE | NO. | BY | DATE | NO. | BY | DATE |
| DESIGNED BY | DATE | BY | DATE | DESIGNED BY | DATE | BY | DATE | NO. | BY | DATE | NO. | BY | DATE | NO. | BY | DATE |
| DRAWN BY | DATE | BY | DATE | DRAWN BY | DATE | BY | DATE | NO. | BY | DATE | NO. | BY | DATE | NO. | BY | DATE |
| CHECKED BY | DATE | BY | DATE | CHECKED BY | DATE | BY | DATE | NO. | BY | DATE | NO. | BY | DATE | NO. | BY | DATE |

| | | | |
|--|------------------------|-------------------|--|
| CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP | | | |
| TITLE: ALBUQUERQUE e-SITES SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS | | | |
| DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | LAST UPDATE | |
| COA | Standard | | |
| PROJECT NO. 6600-81 | MAP NO. J-18 | SHEET OF 5 | |