

SIDEWALK EXPANSION ON THIRD STREET AND COPPER AVE.

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USER DEPARTMENT DATE USER DEPARTMENT REV. SHEETS CITY ENGINEER DATE ***** ENGINEER'S STAMP & SIGNATURE APPROVALS ENGINEER DATE DRC Chairman APPROVED FOR CONSTRUCTION City Engineer Constr. Mngmt. Constr. Coord. City Project No. Sheet 679881

PCP FILE: CC.2000.FULL.PC XREF: XREF: XREF: TRANSPORTATION DEPARTMENT.

ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL. STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.

REFERENCE MADE TO COA STD DWGS. REFER TO CITY OF ALBUQUERQUE STANDARD DRAWINGS AS AMENDED THROUGH UPDATE #6.

REFERENCE MADE TO APWA REFERS TO AMERICAN PUBLIC WORKS ASSOCIATION. REFERENCE MADE TO NMSHTD REFERS TO NEW MEXICO STATE HIGHWAY AND

THE CONTRACTOR SHALL NOT INSTALL ITEMS AS SHOWN ON THE PLANS WHEN IT IS OBVIOUS THAT FIELD CONDITIONS ARE DIFFERENT THAN SHOWN IN THE DESIGN. SUCH CONDITIONS SHOULD BE BROUGHT TO THE ATTENTION OF THE ENGINEER. IN THE EVENT THE CONTRACTOR DOES NOT NOTIFY THE ENGINEER, THE CONTRACTOR ASSUMES FULL RESPONSIBILITY AND EXPENSE FOR ANY REVISIONS NECESSARY.

EXISTING SITE IMPROVEMENTS WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE. REPAIRS SHALL BE APPROVED BY THE OWNER PRIOR TO CONSTRUCTION OF THE REPAIRS. REPAIRS SHALL BE ACCEPTED BY THE OWNER PRIOR TO FINAL PAYMENT.

EXISTING FENCING THAT IS NOT DESIGNATED FOR REMOVAL SHALL NOT BE DISTURBED. ANY FENCING THAT IS DISTURBED OR ALTERED BY THE CONTRACTOR SHALL BE RESTORED TO ITS ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE. IF THE CONTRACTOR WOULD LIKE TO REMOVE FENCING TO FACILITATE CONSTRUCTION OPERATIONS, THIS MAY BE DONE WITH THE OWNER'S PERMISSION, AND THE CONTRACTOR SHALL RESTORE THE FENCE TO ITS ORIGINAL CONDITION PRIOR TO THE CLOSE OF THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR SECURITY OF THE SITE UNTIL THE FENCE IS REPLACED.

THE CONTRACTOR SHALL USE THE DESIGNATED STAGING AREA FOR STORAGE OF EQUIPMENT AND MATERIAL. NO MATERIAL OR EQUIPMENT MAY BE STORED OR LEFT ON SITE AT ANY OTHER LOCATION. THE OWNER ASSUMES NO LIABILITY FOR CONTRACTOR'S EQUIPMENT OR MATERIAL IN THE STAGING AREA. SECURITY SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. IF NO STAGING AREA IS DESIGNATED ON THESE PLANS, AN OFFSITE STAGING AREA SHALL BE PROVIDED AT THE CONTRACTOR'S EXPENSE.

WORK WITHIN CITY RIGHT-OF-WAY

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. 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, RETAIN A LICENSED SURVEYOR TO ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

ALL CONSTRUCTION WITHIN CITY R.O.W. OR EASEMENTS MUST BE DONE FROM WORK ORDER DOCUMENTS APPROVED BY THE CITY OF ALBUQUERQUE.

CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS TO CONSTRUCT FACILITIES WITHIN CITY RIGHT-OF-WAY.

ELECTRONIC MARKER DISCS SHALL BE PLACED IN ACCORDANCE WITH SECTION 170 OF THE CITY OF ALBUQUERQUE, STANDARD SPECIFICATIONS, PUBLIC WORKS CONSTRUCTION.

DIMENSIONS

ALL DIMENSIONS IN PARKING AREAS AND DRIVES ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.

ALL STATIONING IS TO CENTERLINE OF RIGHT-OF-WAY UNLESS OTHERWISE

ALL SLOPES AND GRADES ARE IN FEET/FOOT UNLESS OTHERWISE NOTED. ELEVATIONS SHOWN FOR CURB AND GUTTER ARE FLOWLINE ELEVATIONS UNLESS OTHERWISE NOTED.

UNLESS OTHERWISE SPECIFIED SUBGRADE SOILS AND STRUCTURAL FILL MATERIALS SHALL BE COMPACTED TO THE FOLLOWING PERCENTAGES OF THE ASTM D 1557 MAXIMUM DENSITY.

STRUCTURAL FILL IN THE BUILDING AREA 95 SUBASE FOR SLAB SUPPORT MISCELLANEOUS BACKFILL BELOW STRUCTURAL FILL OR ROAD PAVEMENT MISCELLANEOUS BACKFILL BELOW UNPAVED. NON-BUILDING AREAS ROAD PAVEMENT SUBGRADE SIDEWALK SUBGRADE CURB AND GUTTER SUBGRADE

PAVING

WHEN ABUTTING NEW PAVEMENT TO EXISTING, CUT BACK EXISTING PAVEMENT TO A NEAT, STRAIGHT LINE AS REQUIRED TO REMOVE ANY BROKEN OR CRACKED PAVEMENT AND MATCH NEW PAVING TO EXISTING.

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

ALL WATER VALVE BOXES AND ELECTRICAL, TELEPHONE, TV & SEWER MANHOLES IN THE CONSTRUCTION AREA SHALL BE ADJUSTED TO FINISHED

SURVEY MONUMENTATION

THE 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 SURVEY MONUMENT THAT IS DISTURBED. REPLACEMENT SHALL BE DONE ONLY BY A REGISTERED SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED. THE CONTRACTOR SHALL. AT HIS OWN EXPENSE, OBTAIN THE SERVICES OF A REGISTERED SURVEYOR TO ADJUST THE MONUMENT AS REQUIRED AND PROPERLY REPORT THE NEW DATA TO THE CONTROLLING AUTHORITIES.

TRAFFIC CONTROL

THE CONTRACTOR SHALL PROVIDE ALL REQUIRED TRAFFIC CONTROL PLANS. ALL SIGNS, BARRICADES, CHANNELIZATION DEVICES, SIGN FRAMES AND ERECTION OF SUCH DEVICES SHALL CONFORM TO THE REQUIREMENTS OF "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" LATEST EDITION. PRIOR TO CONSTRUCTION, TRAFFIC CONTROL PLANS SHALL BE APPROVED BY THE GOVERNING AUTHORITY.

IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED TO THE ENGINEER BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ACCORDANCE WITH CHAPTER 62, ARTICLE 14-1 THROUGH 14-8, NMSA 1978.

CONSTRUCTION NOTES

THE EXISTING UTILITIES DEPICTED ON THESE PLANS WERE DERIVED FROM INFORMATION PROVIDED TO THE ENGINEER BY OTHERS. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF PERTINENT UTILITIES. SHOULD A CONFLICT EXIST. THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY. CONTRACTOR IS TO EXERCISE DUE CARE TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE ANY POTENTIAL DISRUPTIONS IN UTILITY SERVICE WITH THE UTILITY COMPANIES AFFECTED AT LEAST 24 HOURS PRIOR TO THE

CONTRACTOR SHALL EXPOSE AND VERIFY INVERT ELEVATIONS OF RELEVANT SANITARY SEWER LINES BEFORE SETTING ANY NEW INVERTS. SHOULD INVERTS DIFFER MORE THAN 0.20' FROM THOSE SHOWN ON THE PLANS, THE ENGINEER SHALL BE NOTIFIED TO DETERMINE ANY RESULTING CHANGES IN

CONTRACTOR SHALL COORDINATE WITH WATER SYSTEMS DIVISION (857-8200) THREE 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 CONTACT THE WATER SYSTEMS DIVISION (857-8200) THREE DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.

MINIMUM DEPTH OF COVER: WATER = 48" SEWER = 24" GAS = 24".

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 HAS BEEN RECORDED

INSTALL RESIDENTIAL WATER SERVICE LINES PER C.O.A. STANDARD DRAWING

INSTALL RESIDENTIAL SANITARY SEWER SERVICE LINES PER C.O.A. STANDARD DRAWING 2125.

SANITARY SEWER LINES SHALL BE PVC SDR-35. WATER LINES SHALL BE PVC C-900.

ACCESSIBLE FACILITIES

UTILITIES

ALL SURFACES ALONG ACCESSIBLE ROUTES AND FOR HANDICAP RAMPS SHALL BE STABLE, FIRM, SLIDE-RESISTANT, AND SHALL COMPLY WITH UNIFORM FEDERAL ACCESSIBILITY STANDARDS, PARAGRAPH 4.5.

LONGITUDINAL SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS, EXCEPT AT HANDICAP RAMPS. SHALL NOT BE STEEPER THAN 1:20. CRÓSS SLOPES ALONG ACCESSIBLE ROUTE SIDEWALKS EXCEPT AT HANDICAP RAMPS, SHALL NOT BE STEEPER THAN 1:48. SLOPES IN ACCESSIBLE PARKING SPACES, ACCESS AISLES, AND PASSENGER LOADING ZONES SHALL NOT BE STEEPER THAN 1:48 IN ALL DIRECTIONS.

THE SITE SHALL COMPLY WITH ANSI A117.1-1992, "ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES".

EXISTING SITE CONDITIONS AND DRAINAGE PATTERN

THE 0.43 ACRE SITE IS COMPLETELY PAVED AND SURFACE DRAINS TO THE STREETS TO THE NORTH AND WEST. A MAJORITY OF THE RUNOFF IS COLLECTED IN A TYPE "A" STORM INLET ON THE CORNER OF COPPER AVENUE AND THIRD STREET. THIS INLET CONNECTS TO A 66" RCP MAIN LINE RUNNING THROUGH THIRD STREET. A TYPE "D" STORM INLET IS LOCATED IN THE MIDDLE OF THE ENTRANCE TO THE ALLEY FROM THIRD STREET. THIS COLLECTS THE REMAINDER OF THE RUNOFF FROM THE SITE AND CONNECTS TO THE SAME 66" RCP MAIN LINE AS THE OTHER INLET.

PROPOSED SITE CONDITIONS AND DRAINAGE PATTERN

UNDER PROPOSED CONDITIONS THE SITE WILL REMAIN 100% IMPERVIOUS AND RUNOFF WILL BE DIRECTED TO A 10" PVC STORM DRAIN LINE BY DRAINS ON THE PARKING STRUCTURE. THE STORM DRAIN WILL CARRY THE FLOWS TO THE WEST AND DISCHARGE THROUGH THE BACK OF THE EXISTING INLET. THIS WILL REDUCE STREET FLOWS ON COPPER AVENUE AND THIRD STREET.

HYDROLOGY CALCULATIONS

RAINFALL ZONE 2 P360 = 2.35" P10DAYS = 3.95" AREA = 0.43 ACRESEXISTING LAND TREATMENTS A=0 B=0 C=0 D=100 PROPOSED LAND TREATMENTS A=0 B=0 C=0 D=100 EXCESS PRECIPITATION FACTOR A=0.53 B=0.78 C=1.13 D=2.12 PEAK DISCHARGE, QP A=1.56 B=2.28 C=3.14 D=4.70

EXCESS PRECIPITATION, $E = (2.12 \times 0.43)/12 = 2.12$ (EXISTING) EXCESS PRECIPITATION, $E = (2.12 \times 0.43)/12 = 2.12$ (PROPOSED)

100-YR, 6-HOUR VOLUME CALCULATION V360 = E X A = 2.12 X 0.43 / 12 = 0.08 ACRE-FT

100-YR, 10-DAY VOLUME CALCULATION $V10DAY = V360 + AD \times (P10DAYS - P360) / 12$ $V10DAY = 0.08 + 0.43 \times (3.95 - 2.35) / 12 = 0.13 ACRE-FT$

100-YR, 6-HOUR PEAK FLOW RATE CALCULATION $Q100 = QPD \times AD$ $Q100 = 4.70 \times 0.43 = 2.04 \text{ CFS}$

PROJECT BENCHMARK

A 134" ALUMINUM DISK STAMPED "ACS BM, 19-K14" EPOXIED TO THE TOP OF THE CURB, LOCATED IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF TIJERAS AVE. AND THIRD ST. NW. ELEVATION = 4952.842' (MSLD 1929)

SURVEY INFORMATION

A.L.T.A./A.C.S.M. LAND TITLE SURVEY PERFORMED BY SOUTHWEST SURVEYING CO. ALBUQUERQUE. NEW MEXICO. APRIL 1998.

SUPPLEMENT SPOT ELEVATIONS PERFORMED BY CHAVEZ-GRIEVES CONSULTING ENGINEERS, INC. ALBUQUERQUE, NEW MEXICO. DECEMBER 1999.

LOCATION

AS SHOWN ON THE VICINITY MAP. THE SITE IS LOCATED BETWEEN THIRD STREET AND SECOND STREET ON COPPER AVENUE

ABBREVIATIONS

LP = LIGHT POLE BLDG = BUILDING BM = BENCHMARK L/S = LANDSCAPINGCB = CATCH BASINMH = MANHOLECO = CLEANOUTPL = PROPERTY LINE CONC = CONCRETE PP = POWER POLE CL = CHAIN LINK PVC = POLYVINYL CHLORIDE PIPE RCP = REINFORCED CONCRETE PIPE DIA = DIAMETER RD = ROOF DRAIN DI = DROP INLET ROW = RIGHT OF WAYELEV = ELEVATIONS = SLOPEESMT = EASEMENTSAS = SANITARY SEWER LINE EXIST = EXISTING SD = STORM DRAINFF = FINISHED FLOOR ELEVATION STD = STANDARDFG = FINISHED GRADE SW = SIDEWALKFH = FIRE HYDRANT

WV = WATER VALVE

= TELEPHONE LINE FL = FLOW LINETA = TOP OF ASPHALTFF = FINISHED FLOOR ELEVATION TC = TOP OF CURBFPW = FIRE PROTECTION WATER TOC = TOP OF CONCRETE G = GASTG = TOP OF GRATE GM = GAS METERTOW = TOP OF WALL GV = GATE VALVETYP = TYPICALHC = HANDICAPHI PT = HIGH POINT W = WATERWM = WATER METER INV = INVERT ELEVATION

LF = LINEAR FEET

LEN = LENGTH

LEGEND

= EXISTING DROP INLET

= NEW DROP INLET

= TRAFFIC FLOW

= FIRE HYDRANT

⇒ = TRAFFIC SIGNAL

= TRAFFIC SIGNAL BOX

= LIGHT POLE

= SEWER MANHOLE

= TELEPHONE MANHOLE

= ELECTRIC MANHOLE

= MANHOLE

= WATER METER = WATER VALVE

= GAS METER

= PEDESTRAIN SIGNAL

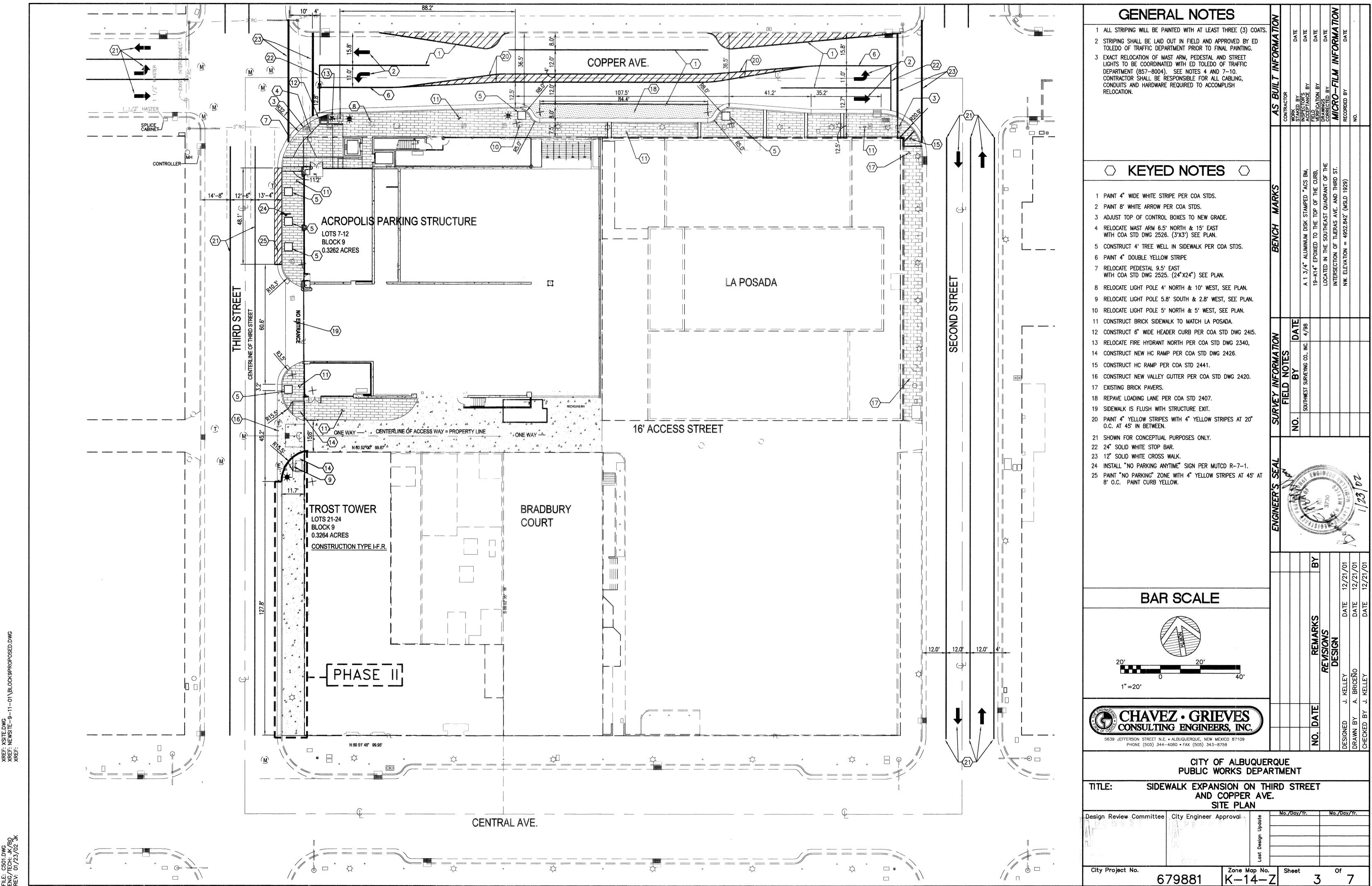
= PARKING METER

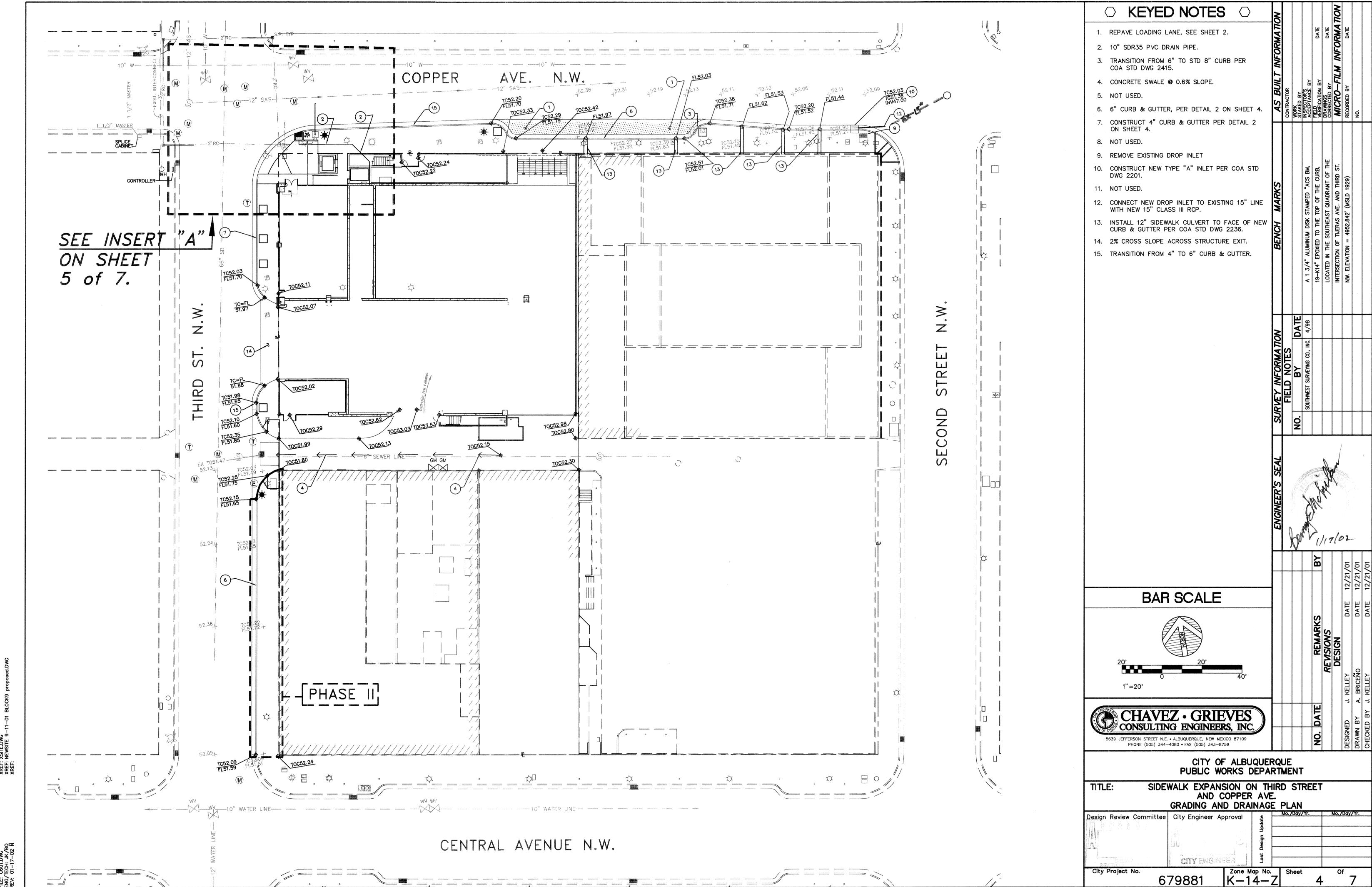
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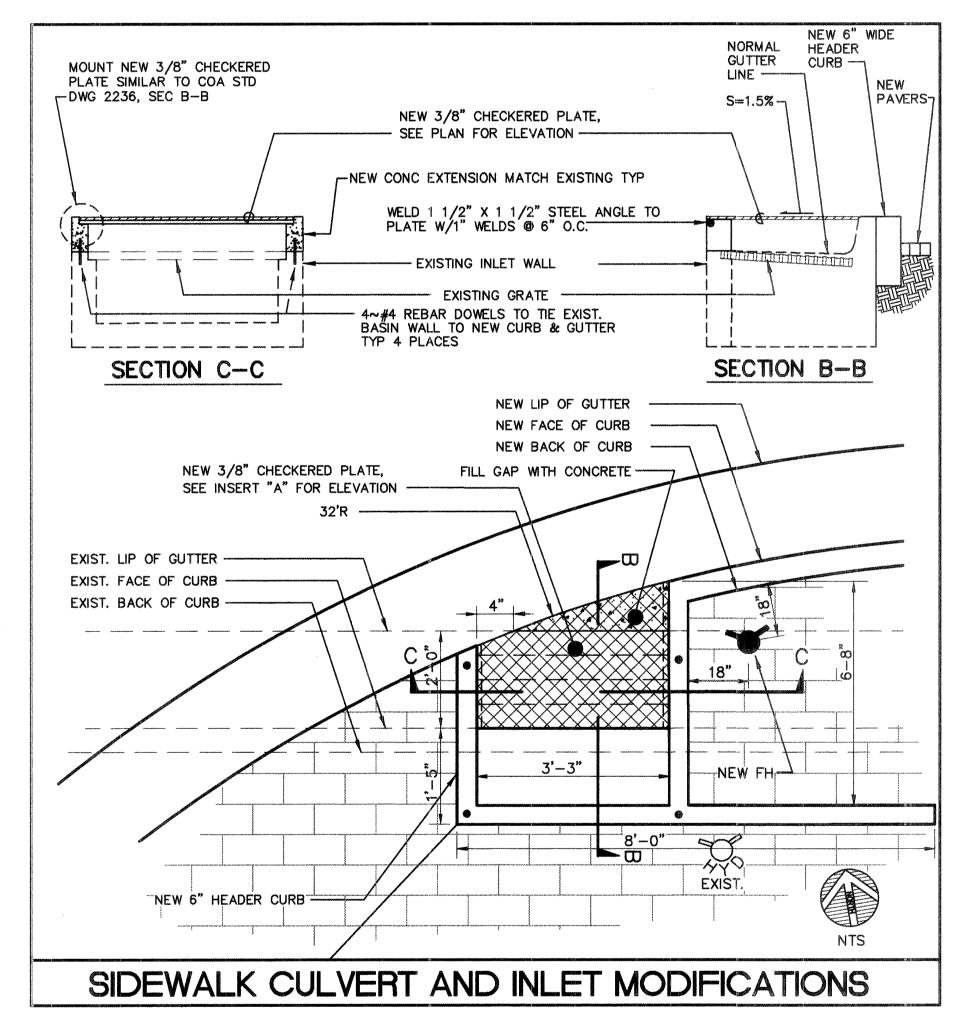
> CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

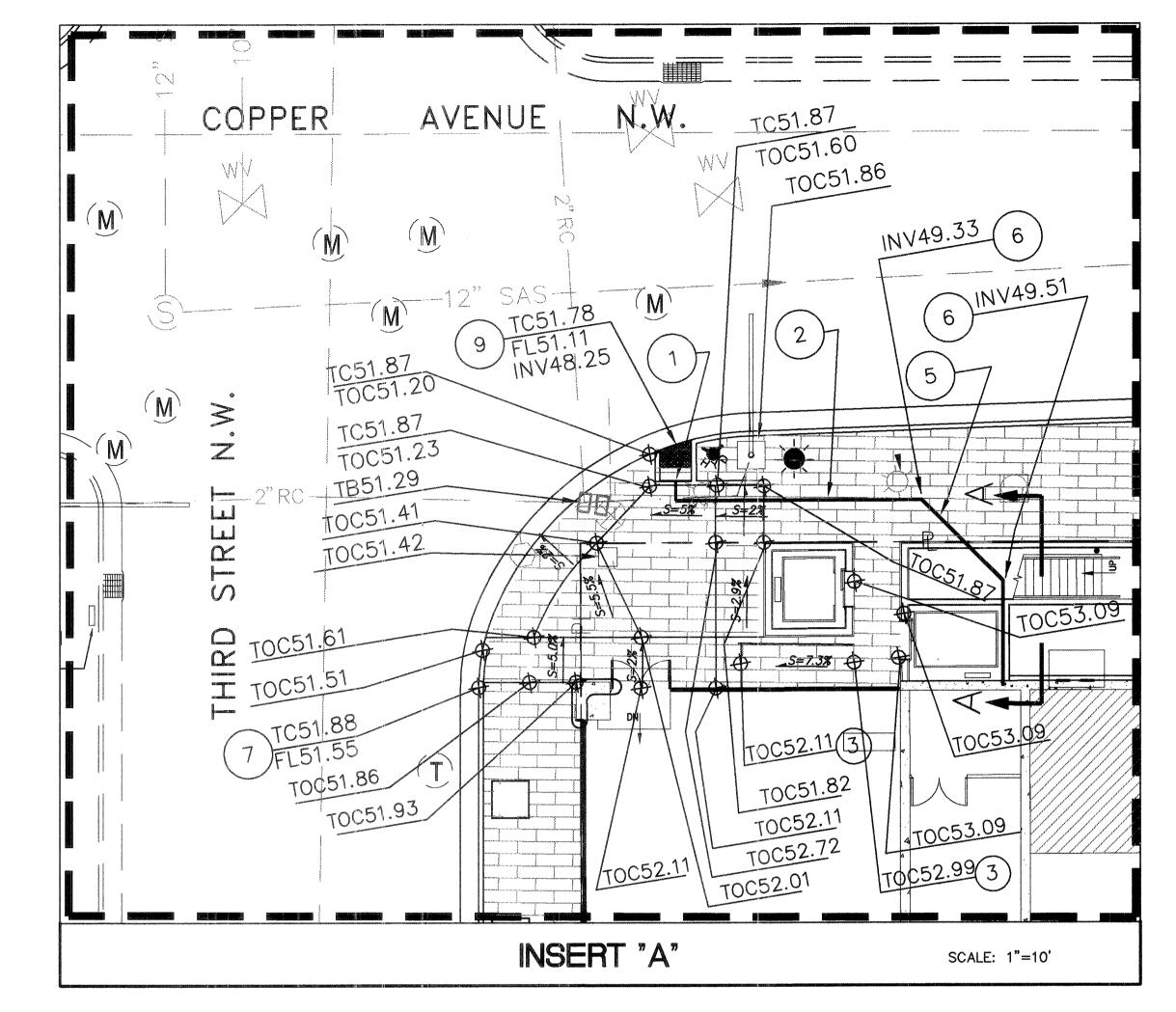
SIDEWALK EXPANSION ON THIRD STREET AND COPPER AVE. GENERAL NOTE SHEET

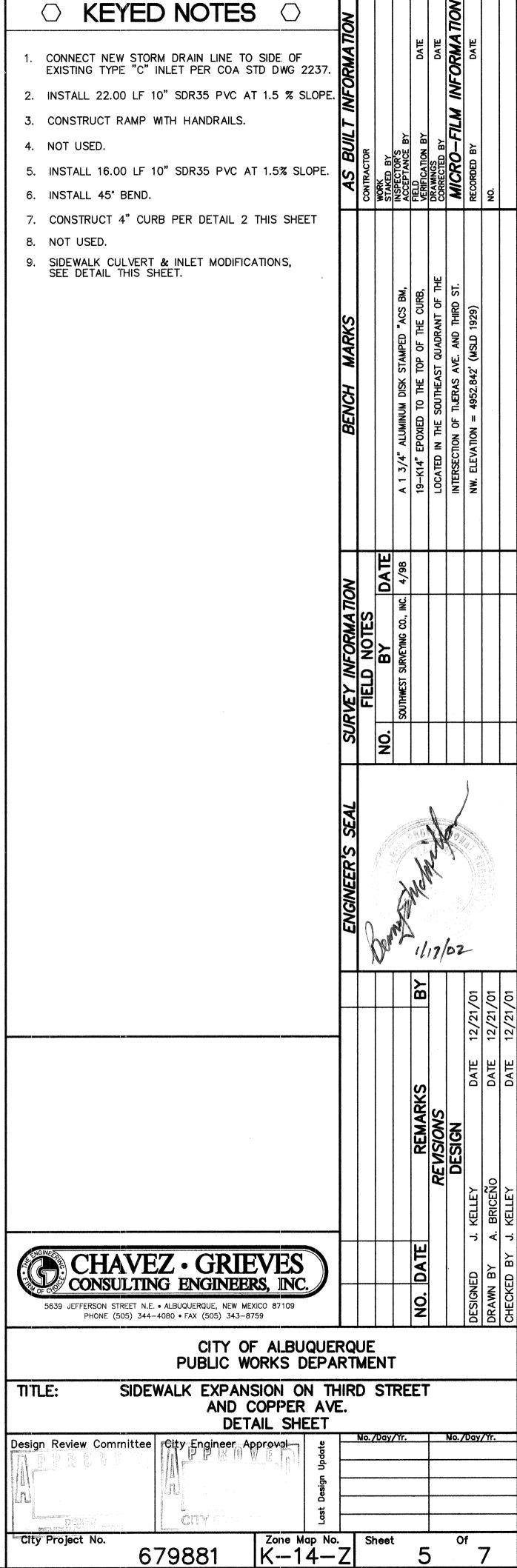
Design Review Committee	e City Engineer A	pproval	Design Update	Mo./Day/Yr.		Mo./Day/Yr.			
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City Project No.	79881	Zone Mo	ap No. 4—Z	Sheet	2	of 7			



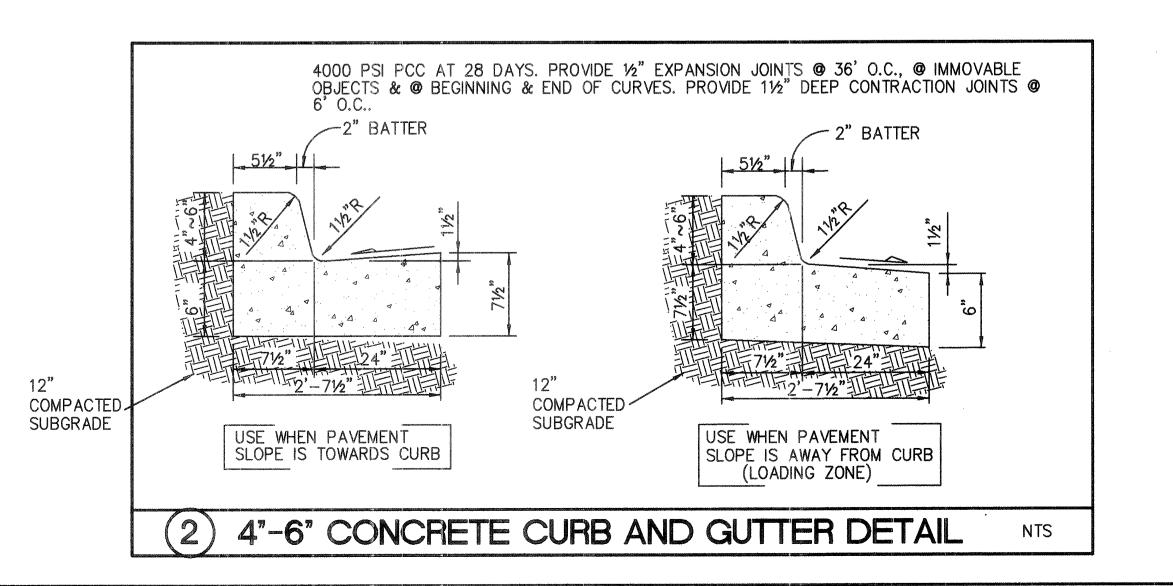








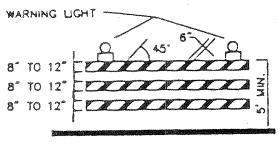
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CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

- 1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.
- 2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPARATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.
- 3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.
- 4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.
- 5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.
- 6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCH, 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 MUTCH, 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 MUTCO SECTION 64-4.
- 11. CONTRACTOR SHALL NOT BEGIN WORK BEFORE 7:00 A.M. OR END WORK AFTER 7:00 P.M. WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.
- 13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELLED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.
- 14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.
- 15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.
- 16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.
- 17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.
- 18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.
- 19. 24 HOURS PRIOR TO CCCUPYING 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 SECTIONS.
- 23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.
- 24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.
- 25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.
- 26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



BASE VARIES

COMES

TYPE IN BARRICADE

WARNING LIGHT -

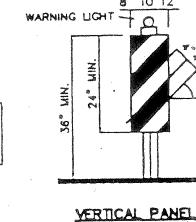
WARNING LIGHT.

8° TO 12°

8° TO 12°

TYPE IL BARRICADE

COLLAPSIBLE



- WARNING LIGHT HIGH LEVEL WARNING DEVICE

LEGEND

WORK AREA BARRICADE - TYPE I, TYPE II, CR 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

0ATE 0ATE 0ATE 0ATE 0ATE

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 TAPER LENGTH (L) (FEET)

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

TERMINATION AREA WORK ZONE BUFFER SPACE TYPE III / R11-2a BE WI-6(L) TAPER AREA ADVANCE WARNING AREA

TRAFFIC CONTROL ELEMENTS

WARNING LIGHT 8" 10 12

COLLAPSIBLE

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

MINIMUM DISTANCE IN FEET SPEED FROM LAST BETWEEN MILES SIGN TO TAPER SIGNS PER HOUR 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 1/2 L MINIMUM SHOULDER TAPER TWO-WAY TRAFFIC TAPER 100 FEET MAXIMUM DOWNSTREAM TAPERS 100 FEET PER LANE

TAPER LENGTH COMPUTATION

85-PERCENTILE SPEED IN MPH

SPEED LIMIT 40 MPH CR LESS L = W x S 45 MPH OR GREATER

L = TAPER LENGTH W = WOTH OF OFFSET IN FEET S = POSTED SPEED OR OFF-PEAK

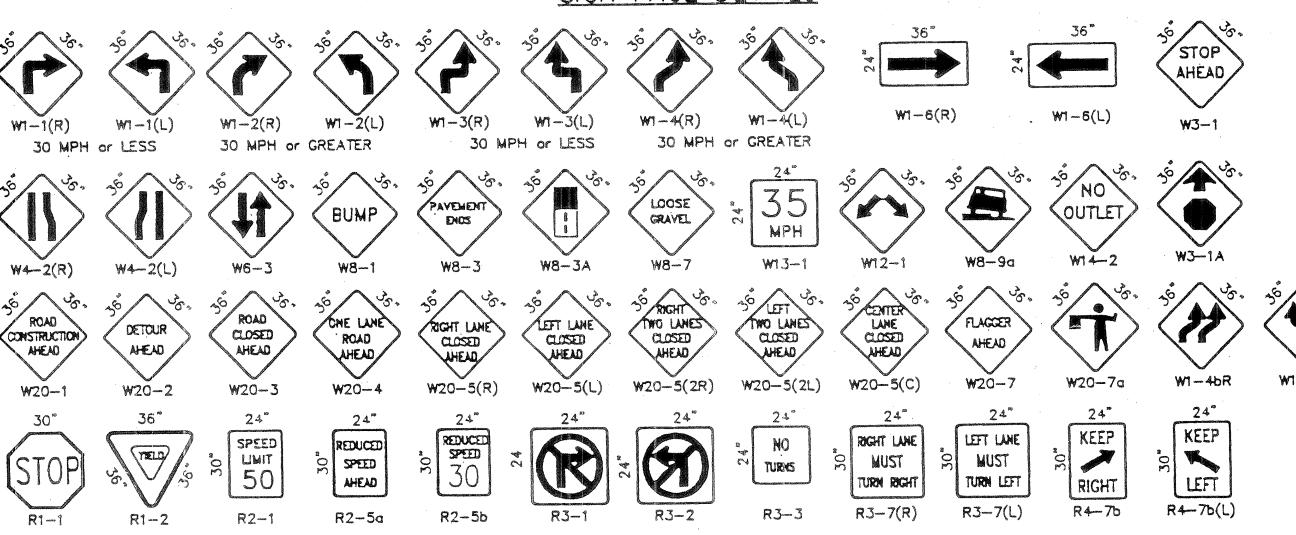
> CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT

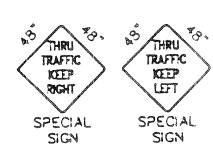
ENGINEERING DEVELOPMENT GROUP

SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL SHEET OF PROJECT NO. 14-14 67988

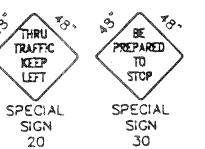
SIGN FACE DETAILS





R5-1a

ENTER



ONE WAY

R6-1(R)

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

CLOSED

R11-2

PARKING

TIME

ROAD CLOSED

PO

THRU TRUFFIC

R11-4

LANE CLOSED

R11-2a

DETOUR M4-10(L)

DKE

DETOUR

M4-8a

G20-2

CONSTRUCTION

M4-9(R)

DETOUR

M4-9(L)

SPECIAL SIGN

ACCESS.

ONE WAY

R6-1(L)

