

# SIDEWALK EXPANSION ON THIRD STREET AND COPPER AVE.

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REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE
ENGINEER'S STAMP & SIGNATURE		APPROVALS		ENGINEER	DATE	*****	
		DRC Chairman			1-24-02	APPROVED FOR CONSTRUCTION  City Engineer Date	
		Transportation			1-24-02		
		Water/Wastewater			1-24-02		
		Hydrology			1-18-02		
		Parks					
		Constr. Mngmt.					
Constr. Coord.			1-24-02	City Project No. 679881		Sheet 1 Of 7	

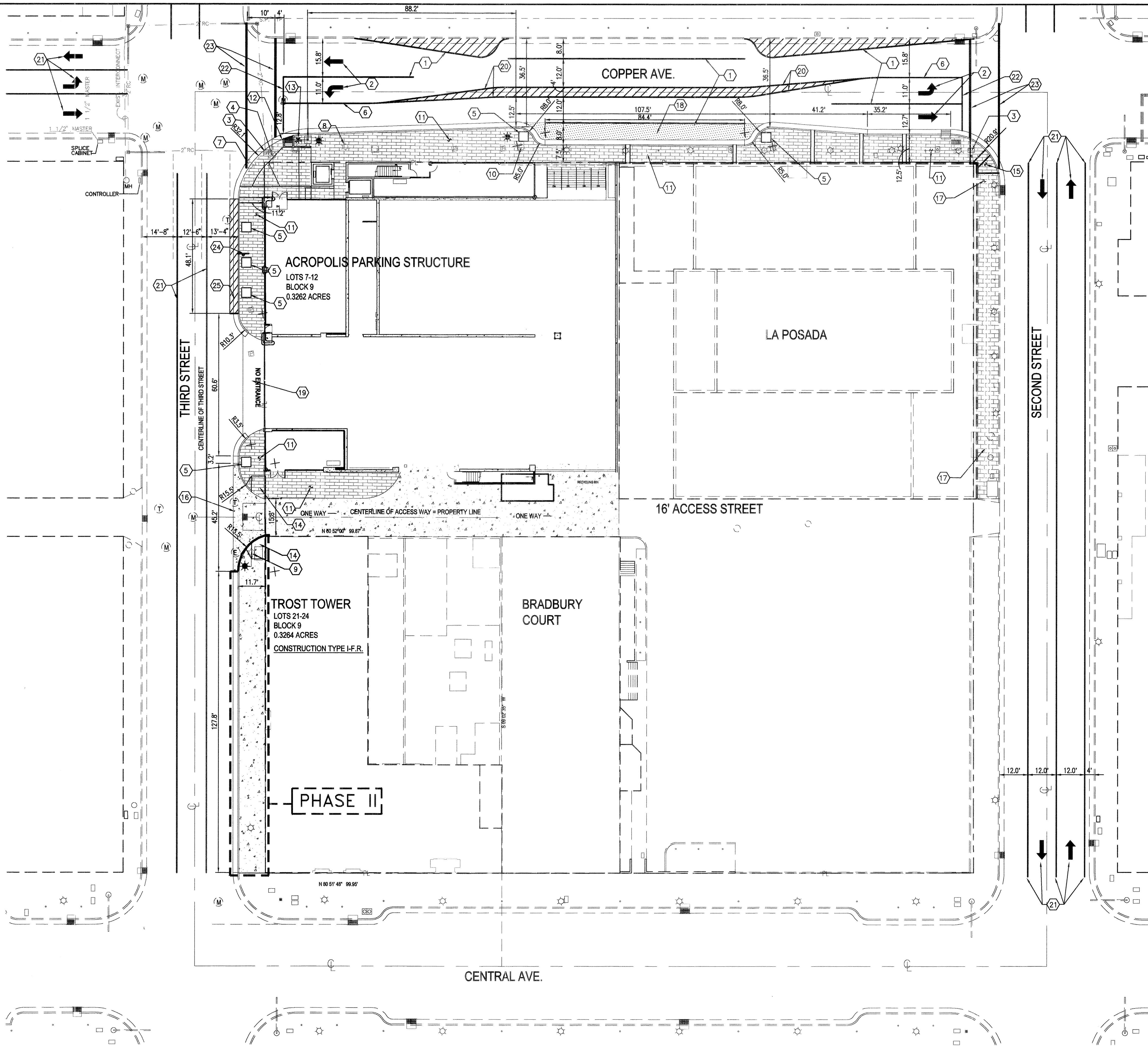






PCP FILE: CG-2000-FULL-POP  
XREF: NEW SITE 9-11-01\BLOCK9PROPOSED.DWG  
XREF:

JOB NO. P45-100-01  
ENG. TECH. W. BQ  
REV. 01/23/02



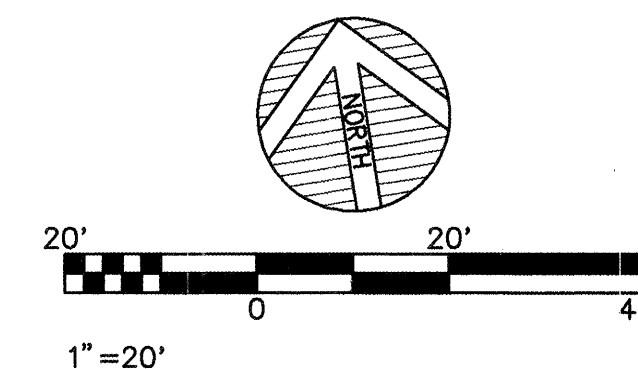
## GENERAL NOTES

- 1 ALL STRIPING WILL BE PAINTED WITH AT LEAST THREE (3) COATS.
- 2 STRIPING SHALL BE LAID OUT IN FIELD AND APPROVED BY ED TOLEDO OF TRAFFIC DEPARTMENT PRIOR TO FINAL PAINTING.
- 3 EXACT RELOCATION OF MAST ARM, PEDESTAL AND STREET LIGHTS TO BE COORDINATED WITH ED TOLEDO OF TRAFFIC DEPARTMENT (857-8004). SEE NOTES 4 AND 7-10. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CABLING, CONDUITS AND HARDWARE REQUIRED TO ACCOMPLISH RELOCATION.

## KEYED NOTES

- 1 PAINT 4" WIDE WHITE STRIPE PER COA STDS.
- 2 PAINT 8" WHITE ARROW PER COA STDS.
- 3 ADJUST TOP OF CONTROL BOXES TO NEW GRADE.
- 4 RELOCATE MAST ARM 6.5' NORTH & 15' EAST WITH COA STD DWG 2526. (3'X3') SEE PLAN.
- 5 CONSTRUCT 4' TREE WELL IN SIDEWALK PER COA STDS.
- 6 PAINT 4" DOUBLE YELLOW STRIPE
- 7 RELOCATE PEDESTAL 9.5' EAST WITH COA STD DWG 2525. (24"X24") SEE PLAN.
- 8 RELOCATE LIGHT POLE 4' NORTH & 10' WEST, SEE PLAN.
- 9 RELOCATE LIGHT POLE 5.8' SOUTH & 2.8' WEST, SEE PLAN.
- 10 RELOCATE LIGHT POLE 5' NORTH & 5' WEST, SEE PLAN.
- 11 CONSTRUCT BRICK SIDEWALK TO MATCH LA POSADA.
- 12 CONSTRUCT 6" WIDE HEADER CURB PER COA STD DWG 2415.
- 13 RELOCATE FIRE HYDRANT NORTH PER COA STD DWG 2340.
- 14 CONSTRUCT NEW HC RAMP PER COA STD DWG 2426.
- 15 CONSTRUCT HC RAMP PER COA STD 2441.
- 16 CONSTRUCT NEW VALLEY GUTTER PER COA STD DWG 2420.
- 17 EXISTING BRICK PAVERS.
- 18 REPAVE LOADING LANE PER COA STD 2407.
- 19 SIDEWALK IS FLUSH WITH STRUCTURE EXIT.
- 20 PAINT 4" YELLOW STRIPES WITH 4" YELLOW STRIPES AT 20' O.C. AT 45' IN BETWEEN.
- 21 SHOWN FOR CONCEPTUAL PURPOSES ONLY.
- 22 24" SOLID WHITE STOP BAR.
- 23 12" SOLID WHITE CROSS WALK.
- 24 INSTALL "NO PARKING ANYTIME" SIGN PER MUTCD R-7-1.
- 25 PAINT "NO PARKING" ZONE WITH 4" YELLOW STRIPES AT 45' AT 8' O.C. PAINT CURB YELLOW.

## BAR SCALE



CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT

TITLE: SIDEWALK EXPANSION ON THIRD STREET  
AND COPPER AVE.  
SITE PLAN

Design Review Committee	City Engineer Approval	Mo./Day/Yr.	Mo./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of
679881	K-14-Z	3	7

AS BUILT INFORMATION			
CONTRACTOR	DATE	WORK	DATE
STAKED BY	DATE	INSPECTED BY	DATE
FIELD	DATE	FIELD	DATE
RELOCATION BY	DATE	RELOCATION BY	DATE
CORRECTED BY	DATE	CORRECTED BY	DATE
MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	

## BENCH MARKS

## SURVEY INFORMATION

## ENGINEER'S SEAL

## REVISIONS

## REVISIONS

## REVISIONS

## REVISIONS

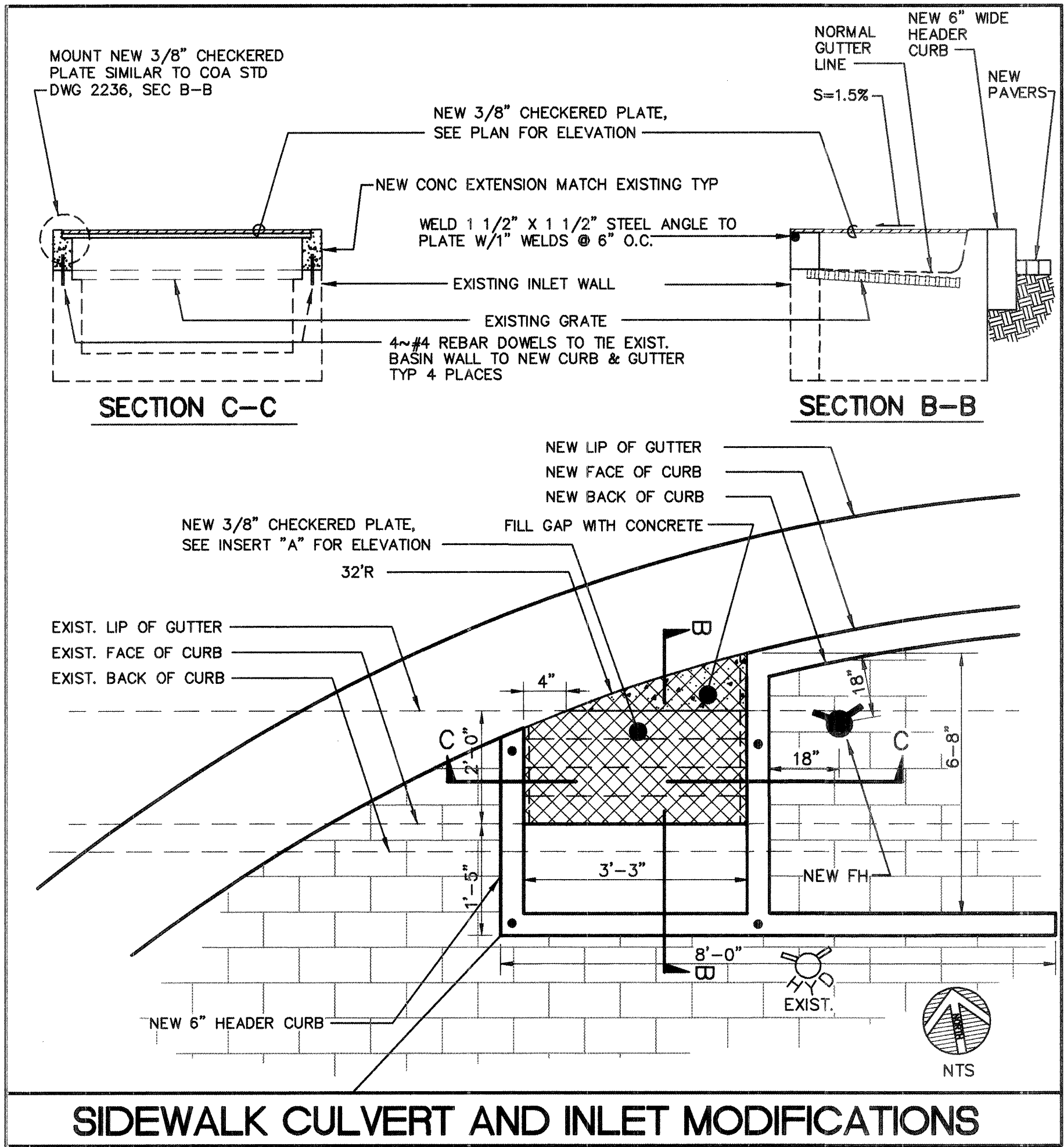
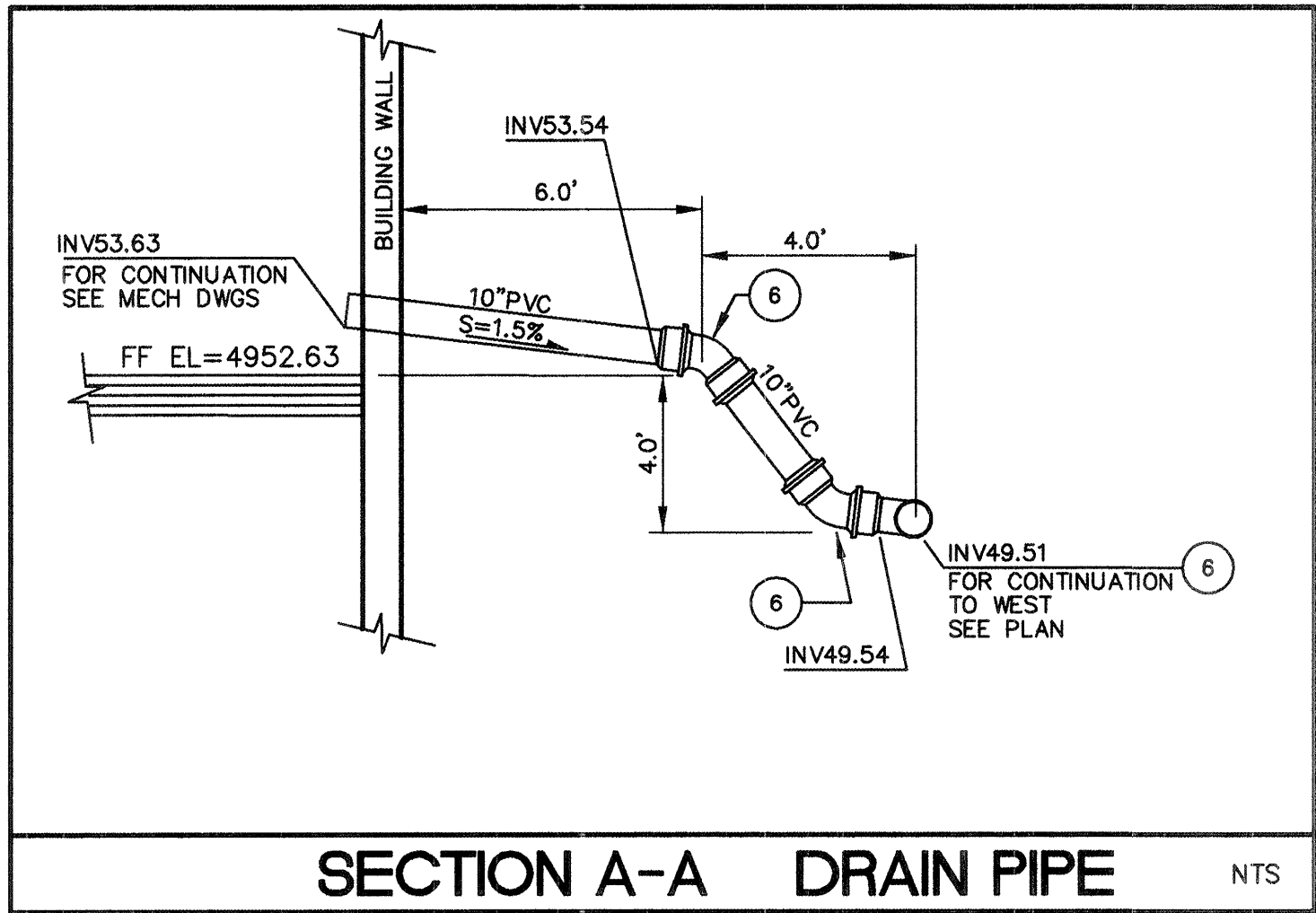
## REVISIONS



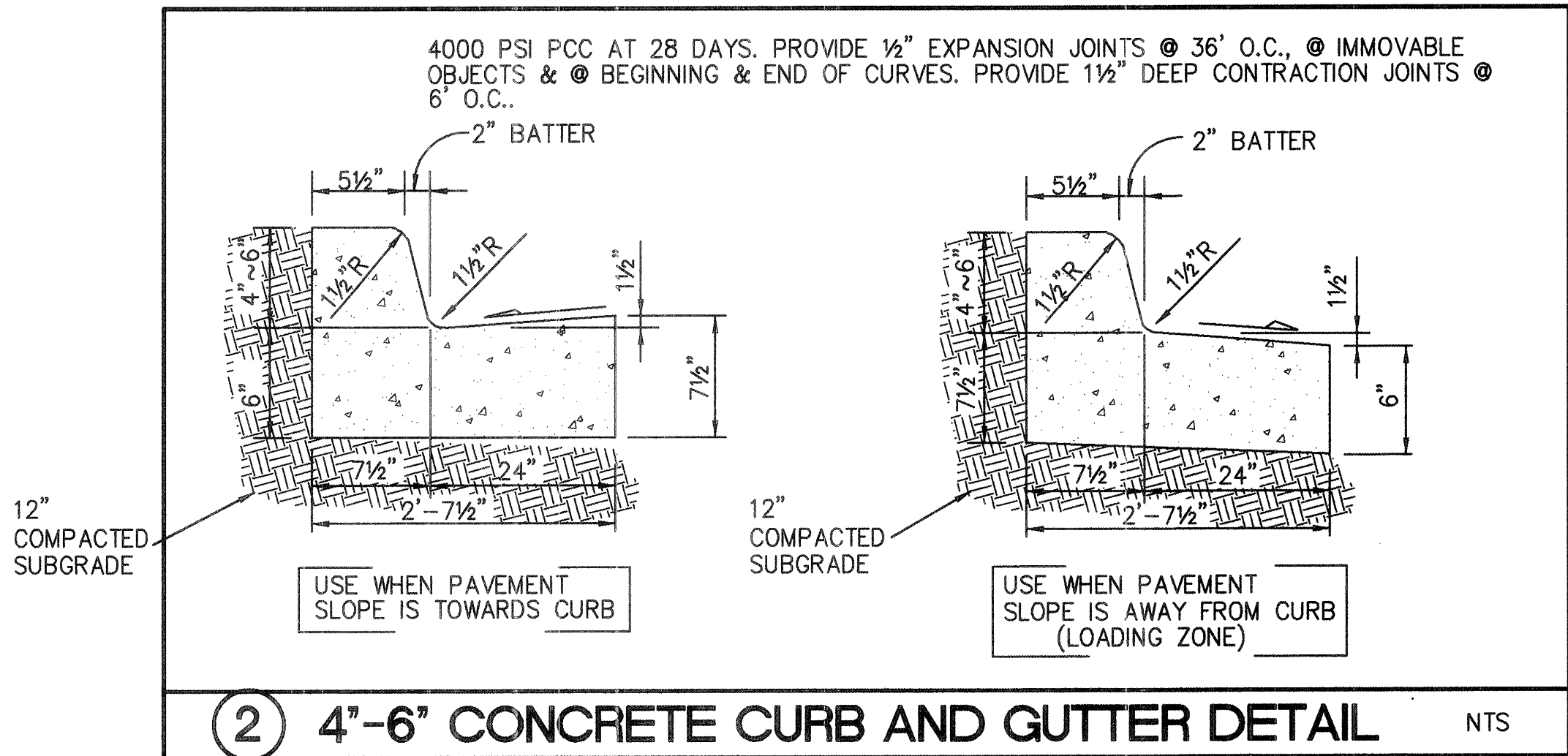
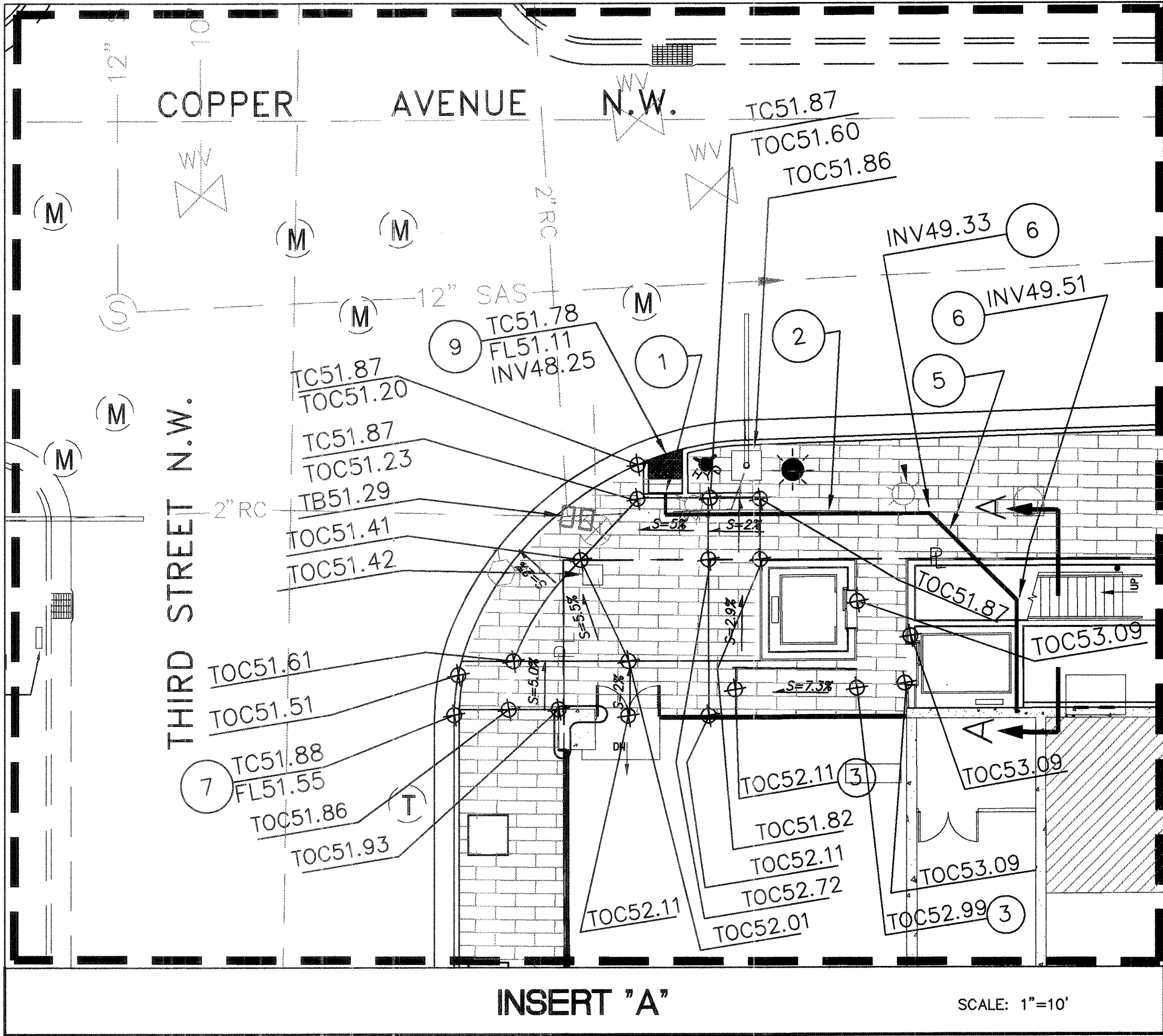




PCP FILE: C62000.FULL.PCP  
XREF: BLOCKS Proposed.DWG  
XREF:  
JOB NO: P46-100-01  
DATE: 01/16/02  
ENG/TECH: JAV  
REV: 01-16-02 N



SIDEWALK CULVERT AND INLET MODIFICATIONS



KEYED NOTES

1. CONNECT NEW STORM DRAIN LINE TO SIDE OF EXISTING TYPE "C" INLET PER COA STD DWG 2237.
2. INSTALL 22.00 LF 10" SDR35 PVC AT 1.5 % SLOPE.
3. CONSTRUCT RAMP WITH HANDRAILS.
4. NOT USED.
5. INSTALL 16.00 LF 10" SDR35 PVC AT 1.5% SLOPE.
6. INSTALL 45° BEND.
7. CONSTRUCT 4" CURB PER DETAIL 2 THIS SHEET
8. NOT USED.
9. SIDEWALK CULVERT & INLET MODIFICATIONS, SEE DETAIL THIS SHEET.

AS BUILT INFORMATION			BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL		REVISIONS		DESIGN	
CONTRACTOR	DATE	BY	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE	NO.	DATE
WORK STAMPED BY ACCEPTANCE BY DRAWINGS CORRECTED BY MICRO-FILM RECORDED BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
A 1 3/4" ALUMINUM DISK STAMPED "ACS BM, 19-K14" EXPOSED TO THE TOP OF THE CURB, LOCATED IN THE SOUTHEAST QUADRANT OF THE INTERSECTION OF TIERRAS AVE. AND THIRD ST. NW. ELEVATION = 4952.842' (MSD 1929)												
CHAVEZ • GRIEVES CONSULTING ENGINEERS, INC. 5639 JEFFERSON STREET N.E. • ALBUQUERQUE, NEW MEXICO 87109 PHONE (505) 344-4080 • FAX (505) 343-8759												
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT												
TITLE: SIDEWALK EXPANSION ON THIRD STREET AND COPPER AVE. DETAIL SHEET												
Design Review Committee	City Engineer Approval	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.	Ms./Day/Yr.
City Project No.	Zone Map No.	Sheet	Of	City Project No.	Zone Map No.	Sheet	Of	City Project No.	Zone Map No.	Sheet	Of	City Project No.
679881	K-14-Z	5	7	679881	K-14-Z	5	7	679881	K-14-Z	5	7	679881



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 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 MUTCD SECTION 6A-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 OCCUPANCY 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.

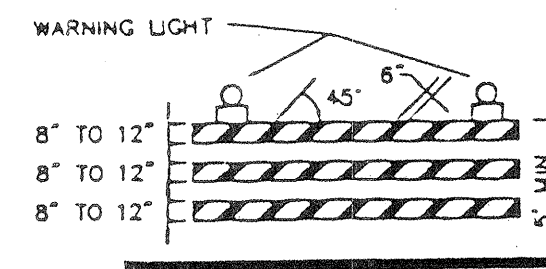
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:  
1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.  
2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.  
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR 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.

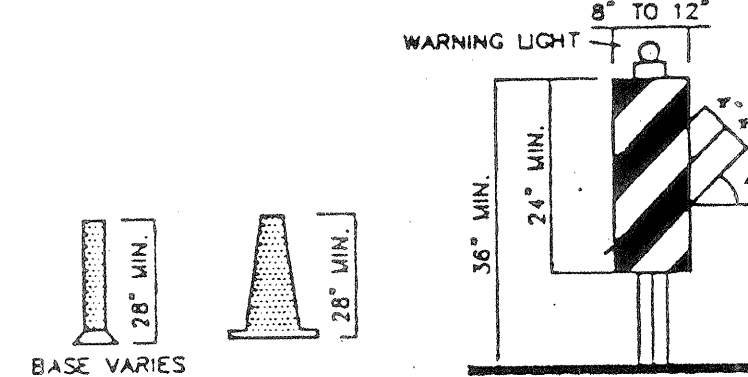
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO ITS PLACEMENT AND MAINTENANCE.

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.



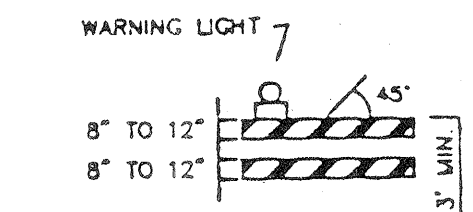
TYPE III BARRICADE



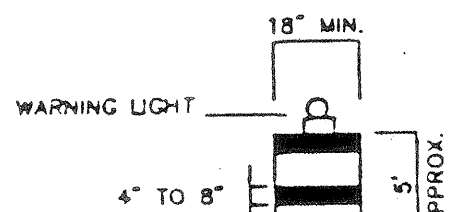
CONES

VERTICAL PANEL

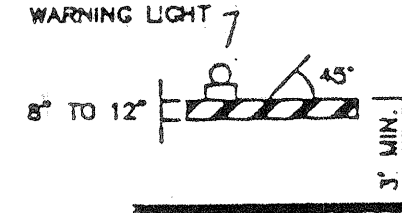
HIGH LEVEL WARNING DEVICE



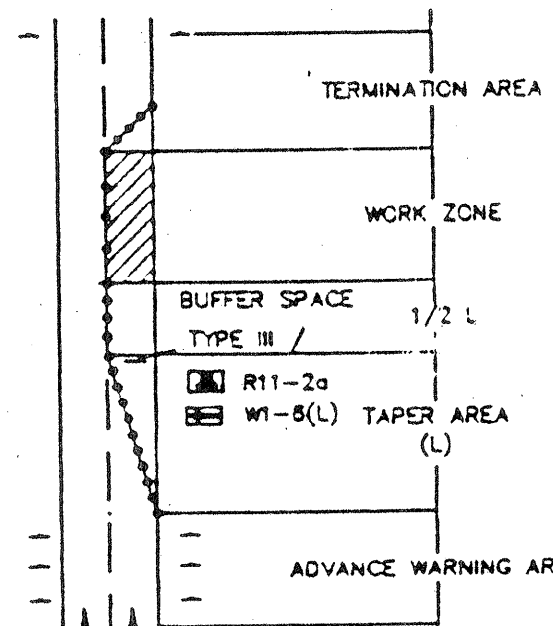
TYPE I BARRICADE



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 MILES PER HOUR	MINIMUM DISTANCE IN FEET	
	BETWEEN SIGNS	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

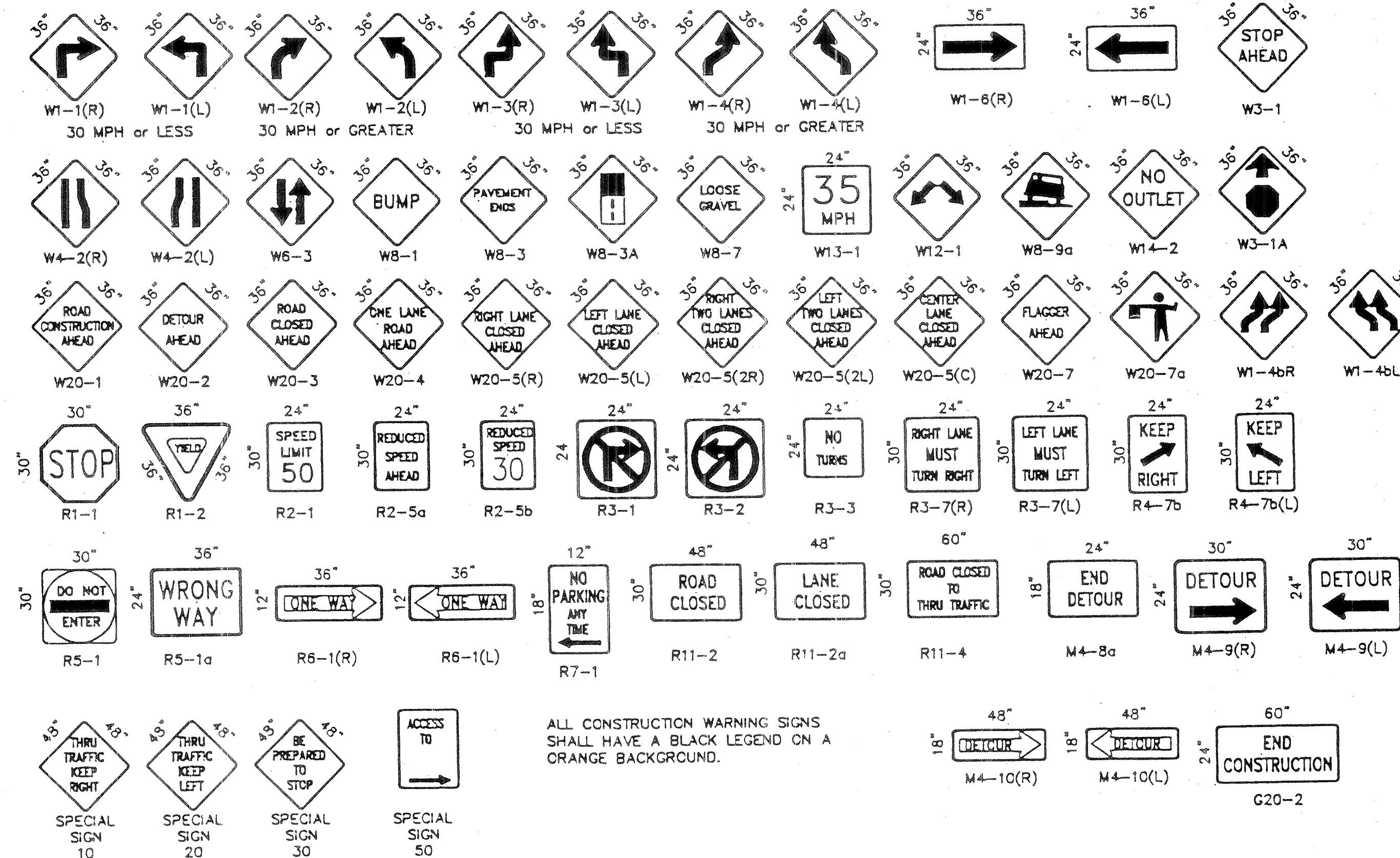
TAPER CRITERIA

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
DOWNSIDE 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		REMARKS		DESIGN		DATE	
CONTRACTOR	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
WORK	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
STANDARD	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
ACCEPTANCE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
VERIFICATION	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
BY	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
NO.	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE	DATE
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT ENGINEERING DEVELOPMENT GROUP													
TITLE: SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS													
DESIGN REVIEW COMMITTEE				CITY ENGINEER APPROVAL				LAST UPDATE		NO. DATE		SHEET OF	
CWA				SDC						NO. DATE		SHEET OF	
PROJECT NO. 679881				MAP NO. K-14				SHEET 6		OF 7			



