

# BATAAN MEDIAN

CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM

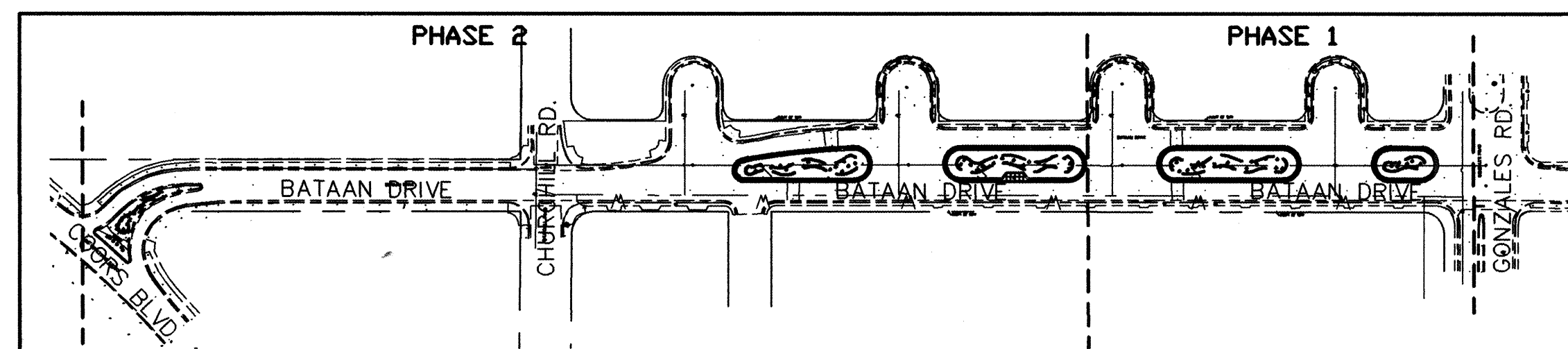
# INDEX OF DRAWINGS

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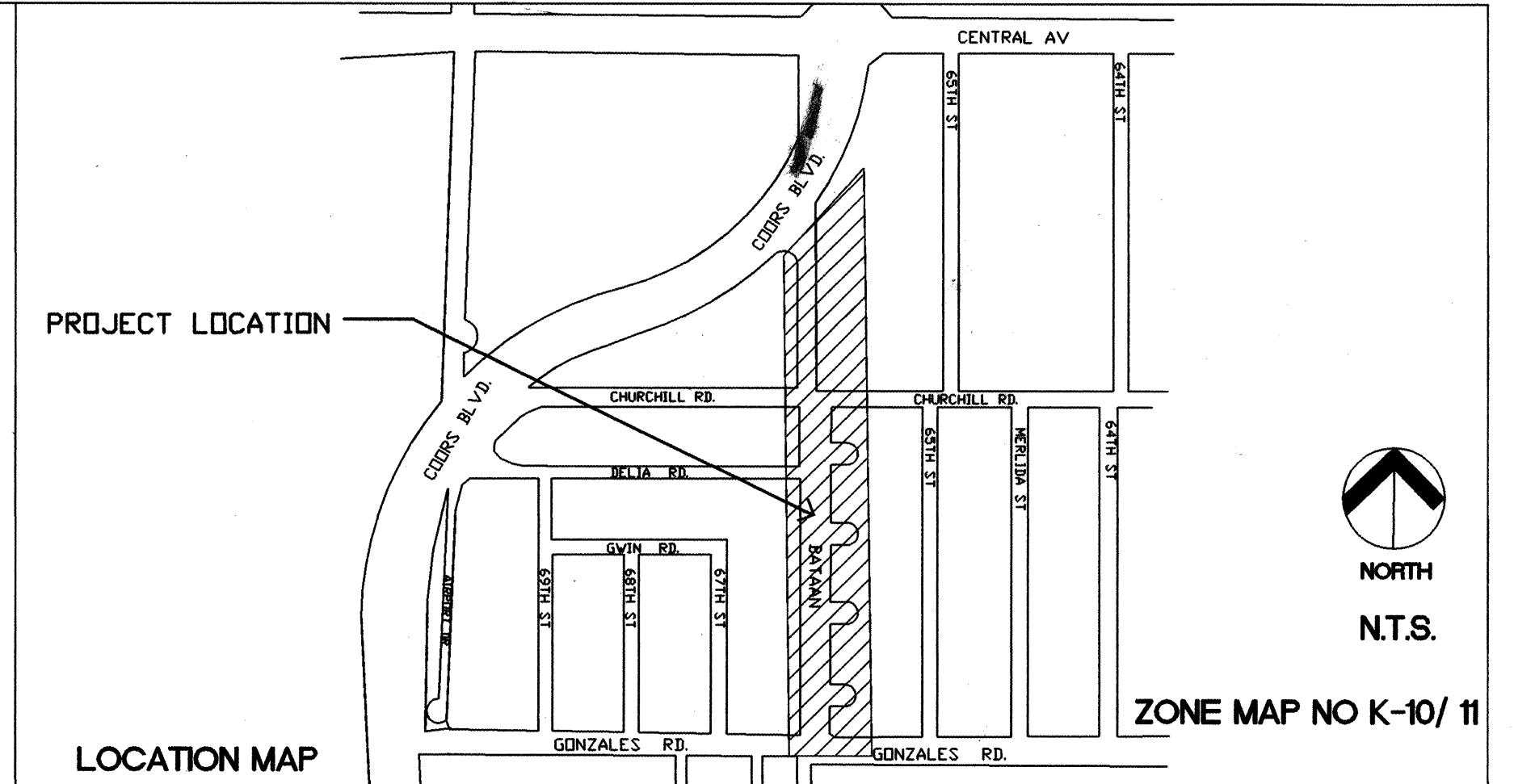


PHASING MAP 



4/17/03

SET NUMBER:



## 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 AND SHALL INCLUDE UPDATE NO. 6.
3. TWO (2) 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 OR SURVEYOR IMMEDIATELY SO THAT THE CONFLICT CAN BE RESOLVED WITH A 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) DAYS PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL OBTAIN A BARRICADE PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (924-3400) PRIOR TO OCCUPYING AN INTERSECTION. CONTRACTOR MUST REFER TO SECTION 19 OF THE STANDARD SPECIFICATIONS FOR TRAFFIC CONTROL.
6. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED WITH PLASTIC REFLECTORIZED PAVEMENT MARKING BY CONTRACTOR TO LOCATION AS EXISTING OR AS INDICATED BY THIS PLAN SET.
7. CONTRACTOR SHALL COORDINATE WITH WATER SYSTEMS DIVISION (857-8200) SEVEN (7) 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 SEVEN (7) WORKING DAYS PRIOR TO NEEDING VALVES TURNED ON OR OFF.
8. CONTRACTOR SHALL RECORD DATA ON ALL UTILITY LINES AND ACCESSORIES A REQUIRED BY THE CITY OF ALBUQUERQUE FOR THE PREPARATION OF THE "AS CONSTRUCTED" DRAWINGS. CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.
9. CONTRACTOR SHALL NOTIFY THE CITY SURVEYING NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK, IN ORDER THAT THE CITY SURVEYING MAY TAKE NECESSARY MEASURES TO INSURE THAT PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE CITY SURVEYING AND SHALL NOTIFY THE CITY SURVEYING AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY OF ALBUQUERQUE SURVEY SECTION. WHEN A CHANGE IS MADE IN THE FINISH 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 NEW GRADE, UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE SPECIFICATIONS.
10. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORK SITE. CONTRACTOR SHALL PROMPTLY REMOVE ANY GRAFFITI FORM ALL EQUIPMENT, WHETHER PERMANENT OR TEMPORARY.
11. 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 ON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE LANDSCAPE ARCHITECT HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKE NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY. THEREFORE, THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND LINE. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE UTILITY LINES AND FACILITIES.
12. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND THE ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE LANDSCAPE ARCHITECT IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH THE MINIMUM AMOUNT OF DELAY FOR ALL PARTIES.
13. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES DURING CONSTRUCTION.
14. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH THE APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
15. ALL UTILITIES AND UTILITY SERVICE LINES SHALL BE INSTALLED PRIOR TO PAVING.
16. BACKFILL COMPACTION SHALL BE ACCORDING TO SPECIFIED STREET USE.
17. TACK COAT REQUIREMENTS SHALL BE DETERMINED DURING CONSTRUCTION BY THE LANDSCAPE ARCHITECT.
18. CAUTION, THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
19. ANY WORK AFFECTING AN ARTERIAL ROADWAY REQUIRES TWENTY-FOUR (24) HOUR CONSTRUCTION.
20. ANY SIGNAL CONDUITS, LOOPS, PULL BOXES OR OTHER TRAFFIC UTILITIES THAT ARE DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR.
21. ANY SIDEWALK, RAMPS, CURBS AND GUTTER, OR OTHER CITY FACILITY DAMAGED BY CONSTRUCTION OPERATIONS SHALL BE REPLACED BY THE CONTRACTOR.
22. EVERY CARE HAS BEEN TAKEN TO ASSURE THAT PLANT MATERIAL NOT BE IN CONFLICT WITH SAS LOCATIONS. HOWEVER, CONTRACTOR SHALL UNDER NO CIRCUMSTANCES POSITION TREES OVER SAS LINES, THAT ARE NOT 6' DEEP AND OF PVC MATERIAL.

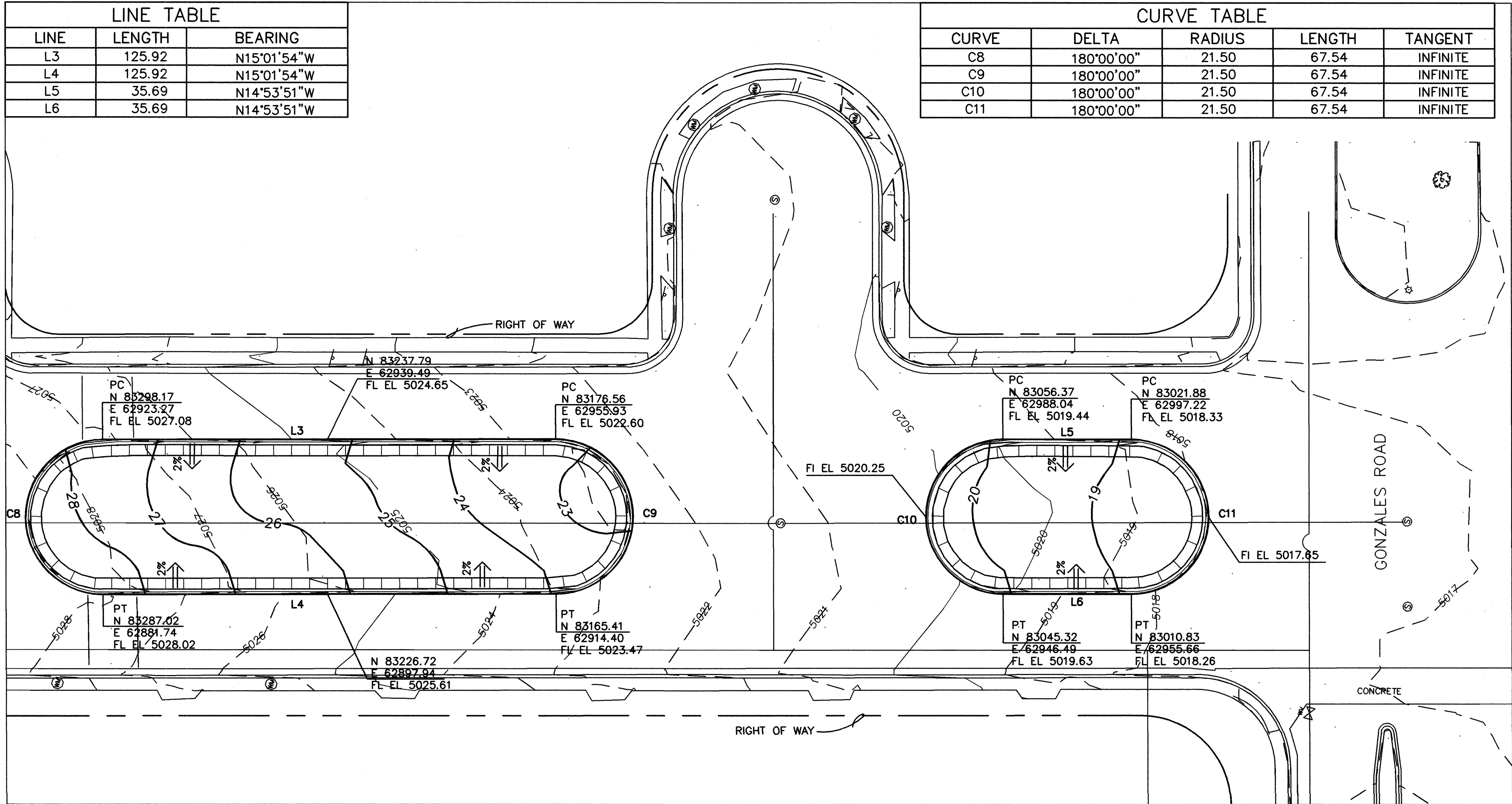
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SEE SHEET 3



#### LEGAL DESCRIPTION

BERNALILLO COUNTY, NEW MEXICO.

#### BENCH MARK

ACS STATION "8-K10.1989", ALUMINUM CAP SET FLUSH WITH THE TOP OF CURB AT COORS BOULEVARD S.W. & AIRPORT DRIVE S.W. ELEV.=5082.145 (SLD 1924)

#### GRADING NOTES

- ALL GRADING AND CONSTRUCTION UNDER THIS PLAN TO BE CONSTRUCTED IN ACCORDANCE WITH THE "CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION", LATEST EDITION.
- CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS IS THE RESPONSIBILITY OF THE CONTRACTOR. ANY COSTS INCURRED FOR REPAIRS SHALL BE THE COST OF THE CONTRACTOR.
- PAVING/ROADWAY GRADES SHALL BE +/- .05 FT. FROM SHOWN PLAN ELEVATIONS.
- PADS SHALL NOT VARY FROM A TRUE HORIZONTAL PLANE BY MORE THAN +/- .01 FOOT AT ANY POINT. THIS TRUE PLANE SHALL NOT VARY FROM THE SHOWN PAD ELEVATION BY +/- .02 FOOT, UNLESS PERMITTED BY OWNER.
- CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS AND GRADING OPERATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL CONSTRUCTION PERMITS AND INSPECTION APPROVALS NECESSARY FOR THE CONSTRUCTION OF THESE FACILITIES AND ALL GRADING OPERATIONS.
- THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.
- UNLESS OTHERWISE SHOWN, DRAINAGE SWALES SHALL HAVE A MINIMUM 1% SLOPE IN THE DIRECTION OF FLOW.
- ALL SCARIFYING, EXCAVATION, AND COMPACTION, WORK SHALL BE DONE IN ACCORDANCE WITH THE SPECIFICATIONS.

#### LEGEND

N	NORTHING
E	EASTING
EX	EXISTING
EL	ELEVATION
FL	FLOW LINE ELEVATION
FG	FINISHED GRADE ELEVATION
R	RADIUS
---	EXISTING FLOW DIRECTION
-5072-	EXISTING INTER. CONTOUR
-5070-	EXISTING INDEX CONTOUR
-74-	PROPOSED CONTOUR
5073.7	PROPOSED SPOT ELEVATION
...	PROPOSED SWALE
←	PROPOSED DIRECTION FLOW

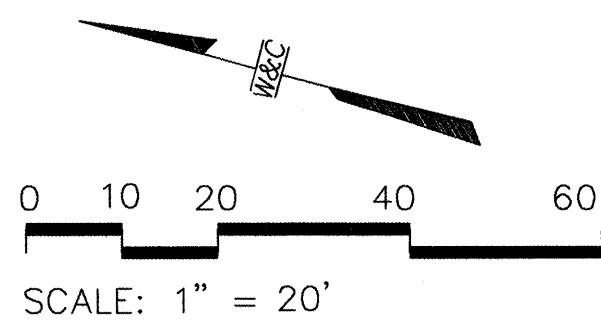
CURVE TABLE				
CURVE	DELTA	RADIUS	LENGTH	TANGENT
C8	180°00'00"	21.50	67.54	INFINITE
C9	180°00'00"	21.50	67.54	INFINITE
C10	180°00'00"	21.50	67.54	INFINITE
C11	180°00'00"	21.50	67.54	INFINITE

BEGINNING OF PROJECT

FOR INFORMATION ONLY

#### NOTE:

FOR LOCATION SEE KEY MAP ON SHEET 4 OF 12.



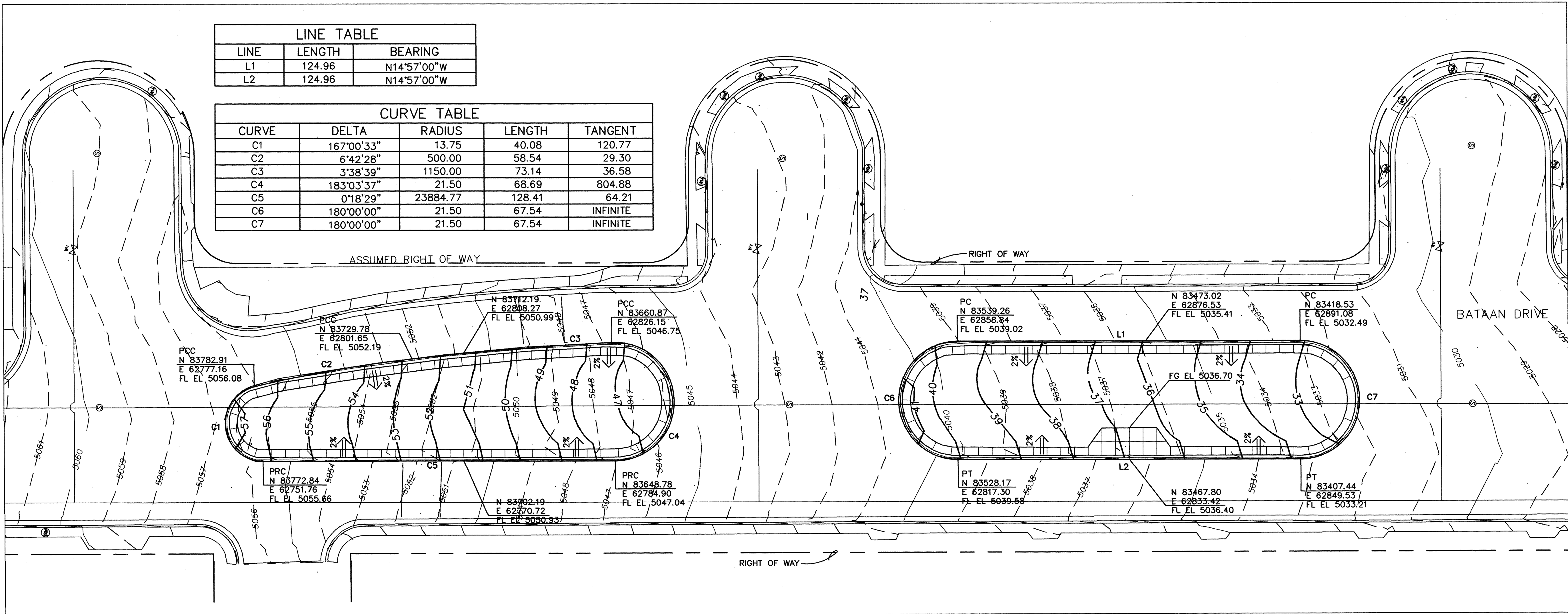
**MORROW REARDON WILKINSON, LTD.**  
LANDSCAPE ARCHITECTS  
210 La Veta NE, Albuquerque, NM 87108  
505.268.2266 FAX 505.265.9657  
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**WILSON & COMPANY**  
4900 LANG AVE. NE  
ALBUQUERQUE, NEW MEXICO 87109  
PHONE: 505.348.4000

CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
TITLE: BATAAN MEDIANS GRADING PLAN			
Design Review Committee APR 29 2003 DESIGN REVIEW COMMITTEE	City Engineer Approval APR 29 2003 CITY ENGINEER	Mo/Dav/Yr. Mo/Dav/Yr. Mo/Dav/Yr. Mo/Dav/Yr.	Mo/Dav/Yr. Mo/Dav/Yr. Mo/Dav/Yr. Mo/Dav/Yr.
CITY PROJECT NO. 638502.		ZONE MAP NO. K-10 / 11	SHEET 2 OF 12

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION				
		FIELD NOTES	BY	DATE	ACS STATION "8-K10.1989", ALUMINUM CAP SET FLUSH WITH THE TOP OF CURB AT COORS BOULEVARD S.W. & AIRPORT DRIVE S.W. ELEV.=5082.145 (SLD 1924)	CONTRACTOR	DATE			
REMARKS		REVISIONS		DESIGNED BY		MICRO-FILM INFORMATION				
BY		DATE		WEP		RECORDED BY				
DATE		DATE		DATE		NO.				
4/17/03		4/17/03		4/17/03						
4/17/03		4/17/03		4/17/03						

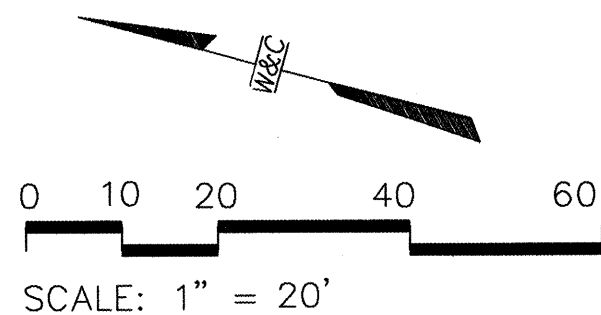




SEE SHEET 2

NOTE:  
FOR LOCATION SEE KEY MAP ON SHEET 5 OF 12.

FOR INFORMATION ONLY



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CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
TITLE: BATAAN MEDIANS GRADING PLAN			
Design Review Committee APPROVED APR 29 2003 DESIGN REVIEW COMMITTEE	City Engineer Approval APR 29 2003 C. J. SHEEP	Mo/Day/Yr.	Mo/Day/Yr.
CITY PROJECT NO. 638502		ZONE MAP NO. K-10 / 11	SHEET 3 OF 12

ENGINEER'S SEAL		SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
		FIELD NOTES		CONTRACTOR		DATE	
		NO. BY DATE		NO. BY DATE		DATE	
		REMARKS		ACS STATION "B-K10.1989", ALUMINUM CAP SET		INSPECTOR'S	
		DESIGNED BY ESC DATE 4/17/03		FLUSH WITH THE TOP OF CURB AT COORS		ACCEPTANCE BY	
DRAWN BY WEP DATE 4/17/03		NO. DATE		BOULEVARD S.W. & AIRPORT DRIVE S.W.		DATE	
CHECKED BY RSL DATE 4/17/03		NO. DATE		ELEV.=5082.145 (SLD 1924)		DATE	
						MICRO-FILM INFORMATION	
						RECORDED BY	
						NO.	

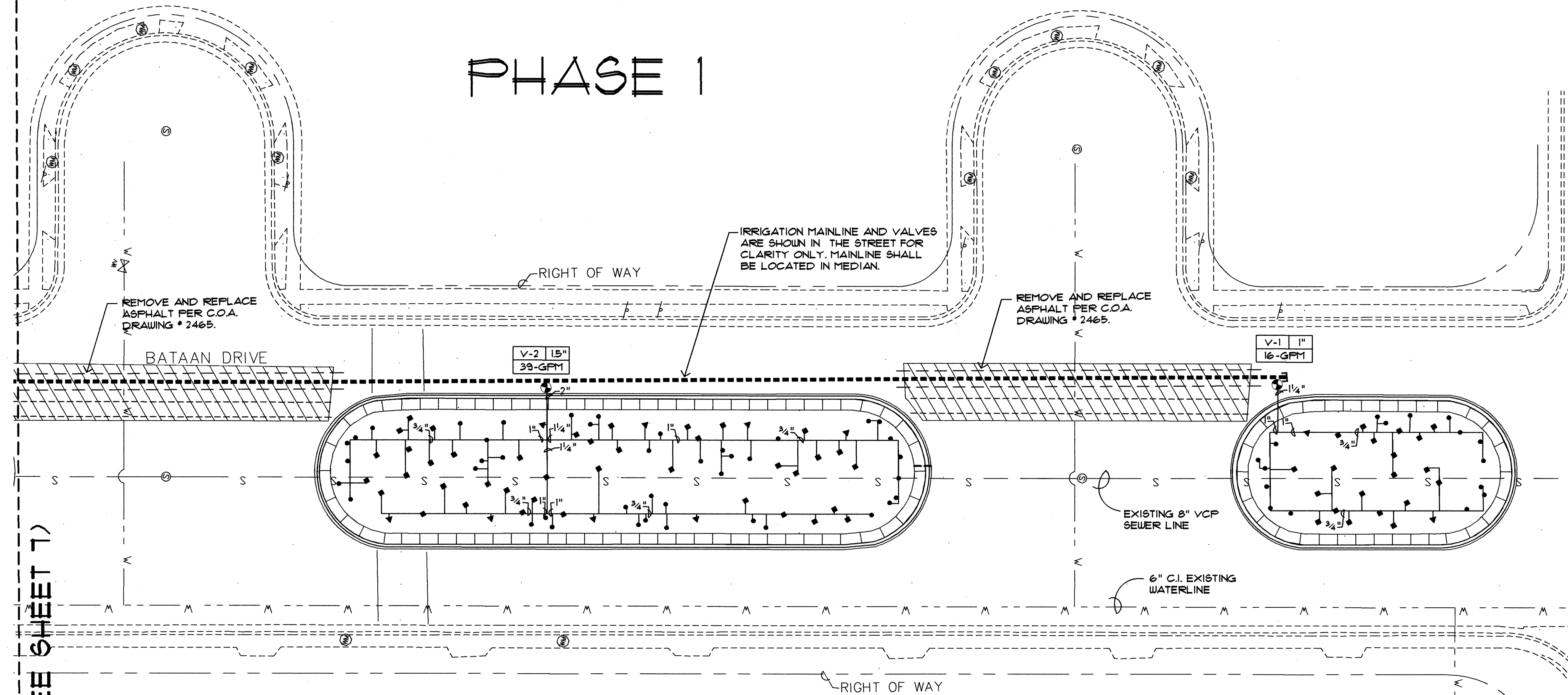




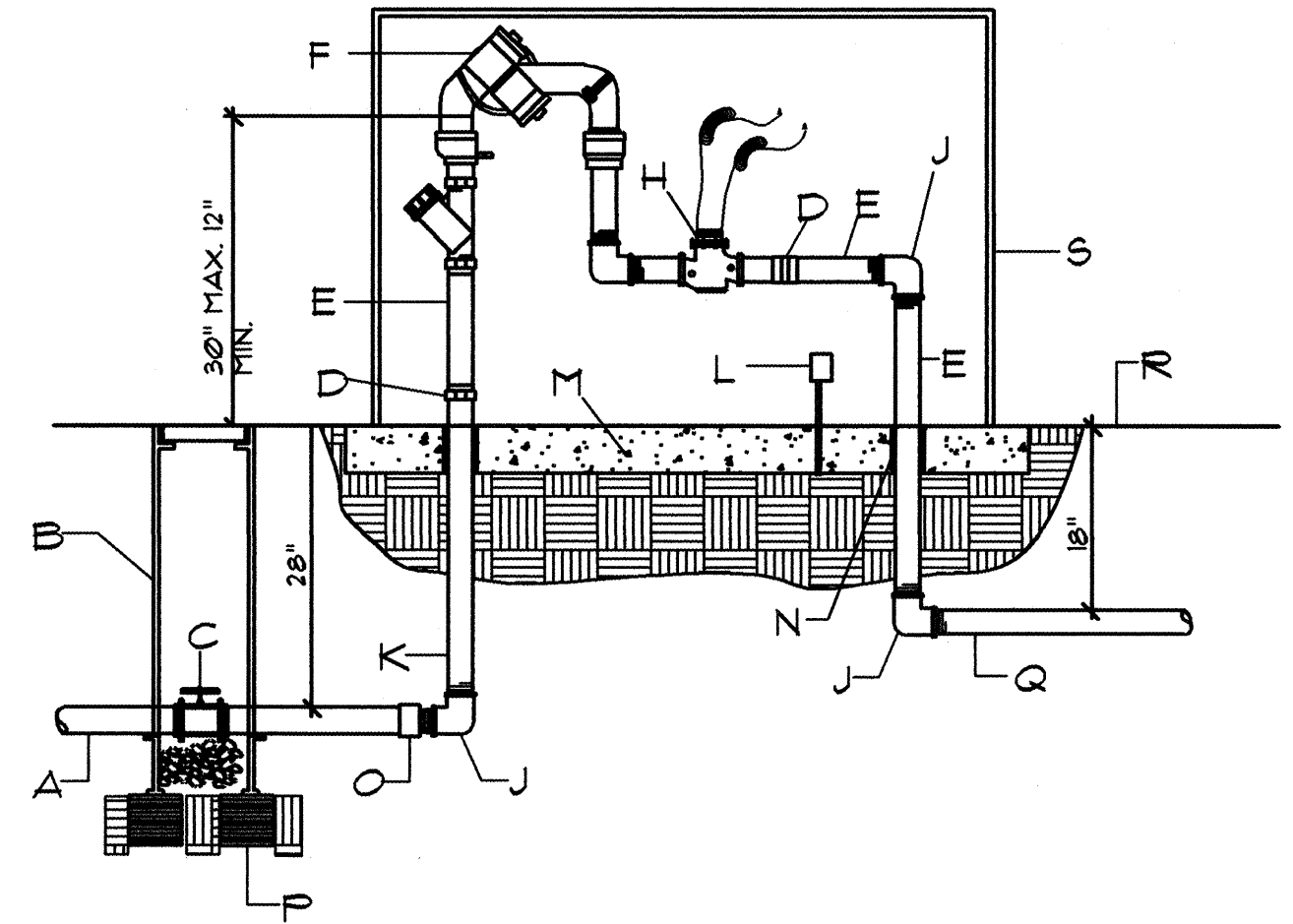


MATCHLINE (SEE SHEET 1)

# PHASE 1



BEGINNING OF PROJECT



### CONSTRUCTION NOTES

- SERVICE LINE TO WATER METER
- BROOKS PRODUCTS INC. 1150 PB-18 BODY (ABS) VALVE BOX W/ BOLT DOWN COVER (ABS) AND ONE 8" EXTENSION
- TRUE UNION SCHEDULE 80 PVC BALL VALVE SLAB
- GALVANIZED UNION (MIN. 4" ABOVE GRADE)
- GALVANIZED NIPPLE
- FEBCO MODEL 8620 RPBA BACKFLOW PREVENTER (REFERENCE DRAWINGS)
- ARAD FLOWMETER 2"
- GALVANIZED ELL
- GALVANIZED RISER
- 110V ELECTRICAL OUTLET FOR HEATED PROTECTIVE ENCLOSURE MUST BE PLACED AWAY FROM RELIEF VALVE
- MIN. 4" CONCRETE SLAB
- ADAPTABLE PVC SLEEVING & INSULATION (MIN. 1" THICK)
- PVC MIP ADAPTER
- 8" x 8" x 16" SOLID CMU BLOCK
- NON-CONSTANT PRESSURE IRRIGATION MAINLINE
- FINISH GRADE
- PROTECTIVE ENCLOSURE SEE CITY STANDARD DUG. 2389 FOR CRITERIA

MASTER METER WITH RPBA

NTS

### IRRIGATION LEGEND

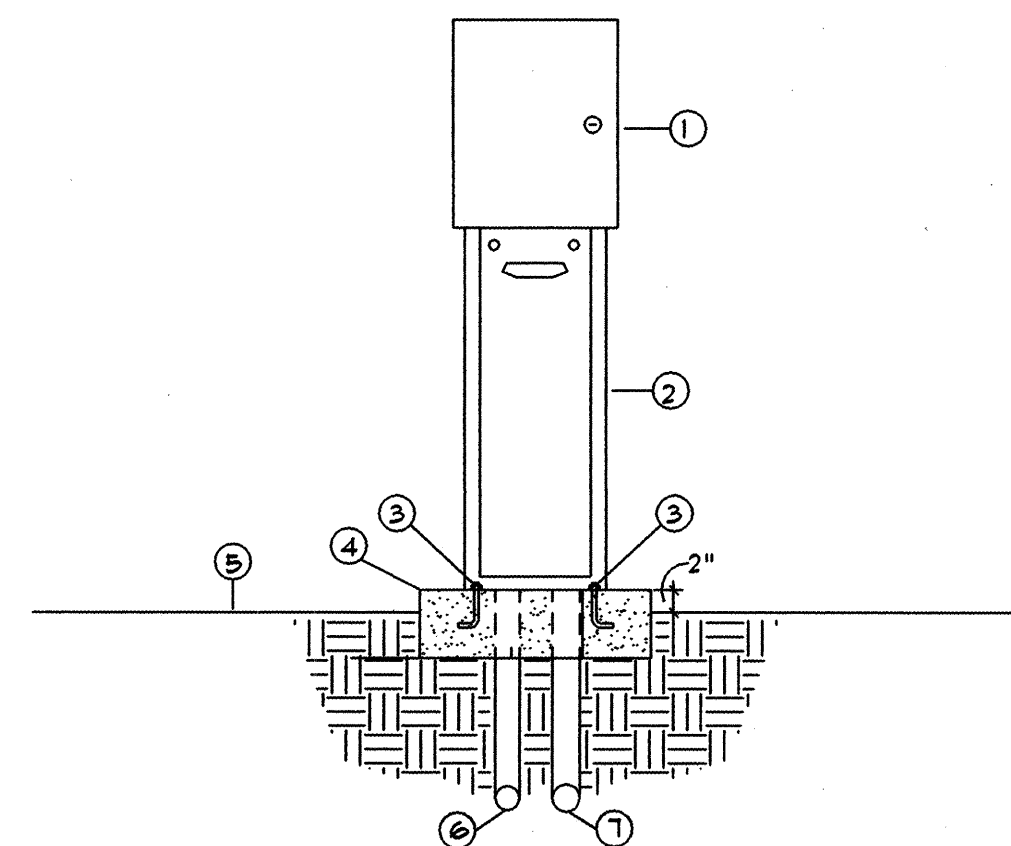
- 2" WATER METER PER C.O.A. DRAWING # 2363.
- MAIN LINE AND LATERAL SLEEVE PIPING, CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC, SIZE 4", SEE IRRIGATION NOTE NO. 2.
- 24-VOLT IRRIGATION WIRE SLEEVE PIPING, CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC, SIZE 2", SEE IRRIGATION NOTE NO. 2.
- IRRIGATION MAIN LINE, SCH. 40 PVC, SDR-21, SOLVENT WELD, SIZE 2", DEPTH OF BURY 28" FOR CONTINUOUS PRESSURE IRRIGATION MAIN AND 18" FOR NON-CONTINUOUS.
- LATERAL PIPING, SCH. 40 PVC, SOLVENT WELD, SIZE AS SHOWN ON PLAN, DEPTH OF BURY, 18". LATERALS WITH FLOWS BELOW 5 GPM SHALL BE 3/4".
- POINT OF CONNECTION, SPEARS SCH. 80 PVC BALL VALVE WITH UNIONS, SIZE 2", PER C.O.A. DRAWING # 2101.
- BACKFLOW PREVENTER AND MASTER VALVE ASSEMBLY, FEBCO 8620, 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH BALL VALVES IN HOT BOX MODEL NO. 2 HEATED AND INSULATED BACKFLOW ENCLOSURE AND WEATHERMATIC 11024-PCR PLASTIC BODY 24-VOLT MASTER VALVE, SIZE 2", INSTALL PER DETAIL B/6.
- REMOTE CONTROL VALVE ASSEMBLY, RAINBIRD PEB SERIES WITH PLASTIC BODY 24-VOLT AUTOMATIC VALVE, SIZE AS SHOWN ON PLAN, PER C.O.A. DRAWING # 2103.
- SOLVENT WELD CAP, SCH. 40 PVC, LINE SIZE.
- PRESSURE COMPENSATING BUBBLER ASSEMBLIES, RAIN BIRD 1400 SERIES, AS FOLLOWS: PER C.O.A. DRAWING # 2103.

MODEL NO.	GPM	PSI
1401	25	30
1402	50	30
1404	100	30
- IRRIGATION CONTROLLER, SCORPIO IS-81A-RU-86, EIGHT (8) STATION PEDESTAL MOUNT CONTROLLER, INSTALL IN AN INTERSPEC BOX, INSTALL PER DETAIL A/6. INSTALL GROUNDING RODS AT CONTROLLER PER DETAIL A/7.

### IRRIGATION NOTES

- CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH PLANS, C.O.A. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986, UPDATES 1-6, AND DETAILS.
- THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SLEEVE PIPING WITH ALL TRADES TO INSURE THAT SLEEVES ARE INSTALLED PROPERLY PRIOR TO INSTALLATION OF CURB AND GUTTER, ASPHALT PAVING, SIDEWALKS, CONCRETE PADS, ETC.
- THIS SYSTEM WAS DESIGNED AT A MINIMUM STATIC PRESSURE OF 60 PSI AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY ACTUAL PSI AND DELIVER RESULTS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. IN THE EVENT THE ACTUAL PSI IS LESS THAN 60 PSI THE CONTRACTOR SHALL RECEIVE DIRECTION FROM LANDSCAPE ARCHITECT REGARDING DESIGN MODIFICATIONS IF NECESSARY.
- THE CONTRACTOR SHALL PROVIDE TWO 120-VOLT, 20 AMP CIRCUITS FROM ELECTRICAL SOURCE TO IRRIGATION CONTROLLER AND BACKFLOW PREVENTOR ENCLOSURE (ONE TO EACH). ALL WORK AND MATERIALS SHALL MEET LOCAL CODES AND THE NATIONAL ELECTRIC CODE (N.E.C.). ELECTRICAL WORK, INCLUDING POWER DROP, SHALL BE INCIDENTAL TO THE IRRIGATION WORK.
- THE CONTRACTOR SHALL INSTALL ALL OF MAIN LINE AS PART OF PHASE 1 CONSTRUCTION.

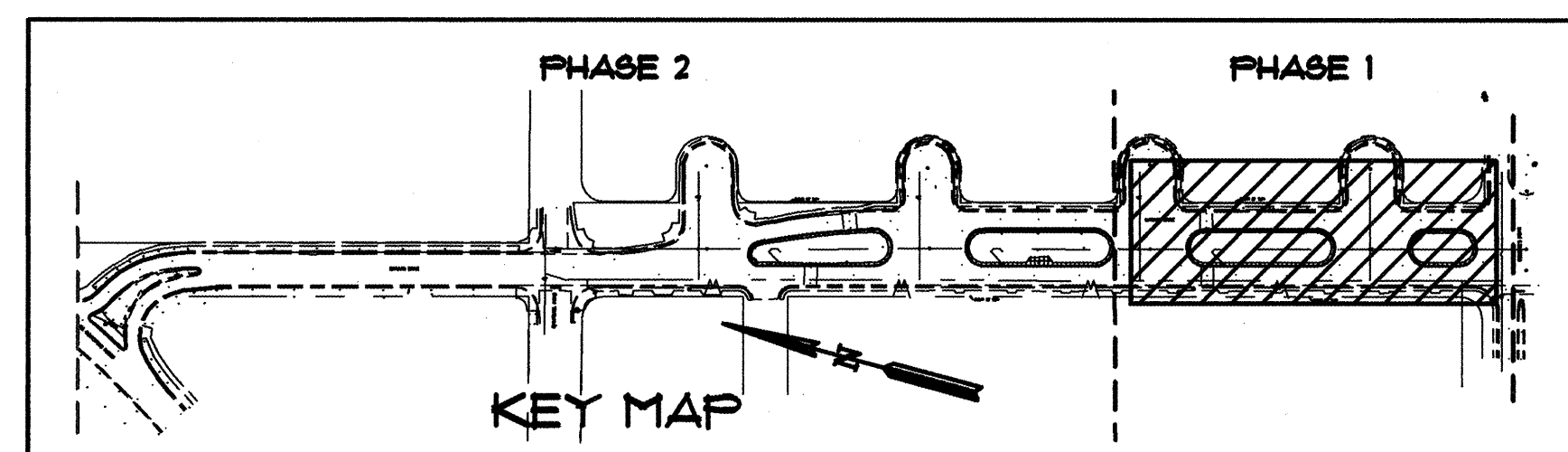
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- AUTOMATIC CONTROLLER, SEE IRRIGATION LEGEND
- PEDESTAL
- 1/2"x6" ANCHOR BOLTS, FOUR PER PEDESTAL
- 4000 PSI CONCRETE PAD - 18" x 24" x 8" THICK
- FINISH GRADE
- 3/4" RIGID PVC SWEET ELL (120 VOLT WIRE)
- 2" RIGID PVC SWEET ELL (24 VOLT WIRE)

AUTOMATIC CONTROLLER

NTS



SCALE: 1" = 20'

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CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM

TITLE: BATAAN MEDIANS IRRIGATION PLAN

Design Review Committee	City Engineer Approval	Mo/Day/Yr.	Mo/Day/Yr.
APR 29 2003	APR 29 2003		
DESIGN REVIEW COMMITTEE	CITY ENGINEER		
CITY PROJECT NO. 6385.01-2	ZONE MAP NO. K-10/11	SHEET 6	OF 12





- (A) IRRIGATION CONTROLLER. SEE IRRIGATION LEGEND.
- (B) #10 AWG WIRE FROM IRRIGATION CONTROLLER TO GROUND ROD CLAMP. WIRE SHALL BE INSTALLED STRAIGHT AND TAUT.
- (C) GROUND ROD, PLACE IN IRRIGATED AREA A MINIMUM OF 8" DIAMETER x 9' DEEP. USE 100'S FROM CONTROLLER.
- (D) 1" DIAMETER x 9' DEEP. USE 100'S FROM CONTROLLER.
- (E) 8"x8"x16" SOLID CUB BLOCK.
- (F) GROUND ROD CLAMP.
- (G) DRILL A SMALL OPENING IN VALVE BOX TO MAINTAIN WIRE TAUTNESS.

N.T.S

1" WATER METER PER C.O.A. DRAWING # 2363.

===== MAIN LINE AND LATERAL SLEEVE PIPING, CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC, SIZE 4", SEE IRRIGATION NOTE NO. 2.

----- 24-VOLT IRRIGATION WIRE SLEEVE PIPING, CLASS 200, SDR-21, BELL-END, SOLVENT WELD PVC, SIZE 2", SEE IRRIGATION NO. 2.

----- IRRIGATION MAIN LINE, SCH. 40 PVC, SDR-21, SOLVENT WELD, SIZE 2". DEPTH OF BURY 28" FOR CONTINUOUS PRESSURE IRRIGATION MAIN AND 18" FOR NON-CONTINUOUS.

----- LATERAL PIPING, SCH. 40 PVC, SOLVENT WELD. SIZE AS SHOWN ON PLAN. DEPTH OF BURY, 18". LATERALS WITH FLOWS BELOW 5 GPM SHALL BE ¾".

☒ POINT OF CONNECTION, SPEARS SCH. 80 PVC BALL VALVE WITH UNIONS, SIZE 2". PER C.O.A. DRAWING # 2107.

⊕ BACKFLOW PREVENTER AND MASTER VALVE ASSEMBLY, FEBCO 860U, 2" REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER WITH BALL VALVES IN HOT BOX MODE NO. 2 HEATED AND INSULATED BACKFLOW ENCLOSURE AND WEATHERMATIC 11024-FCR PLASTIC BODY 24-VOLT MASTER VALVE, SIZE 2", INSTALL PER DETAIL B/6.

☒ REMOTE CONTROL VALVE ASSEMBLY, RAINBIRD FEB SERIES WITH PLASTIC BODY 24-VOLT AUTOMATIC VALVE, SIZE AS SHOWN ON PLAN, PER C.O.A. DRAWING # 2103.

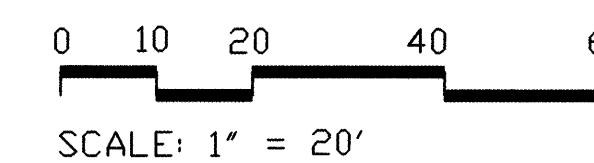
☐ SOLVENT WELD CAP, SCH. 40 PVC, LINE SIZE.

PRESSURE COMPENSATING BUBBLER ASSEMBLIES, RAIN BIRD 1400 SERIES, AS FOLLOWS: PER C.O.A. DRAWING # 2103

MODEL NO.	GPM	PSI
▲ 1401	25	30
● 1402	50	30
▲ 1404	100	30

☐ IRRIGATION CONTROLLER, SCORPIO 16-91A-RW-88, EIGHT (8) STATION PEDESTAL MOUNT CONTROLLER, INSTALL IN AN INTERSPEC BOX. INSTALL PER DETAIL A/6. INSTALL GROUNDING RODS AT CONTROLLER PER DETAIL A/7.

1. CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS AND EQUIPMENT NECESSARY TO CONSTRUCT PROPOSED IRRIGATION SYSTEM IN ACCORDANCE WITH PLANS, C.O.A. STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION 1986, UPDATES 1-6, AND DETAILS.
2. THE CONTRACTOR SHALL COORDINATE THE INSTALLATION OF SLEEVE PIPING WITH ALL TRADES TO INSURE THAT SLEEVES ARE INSTALLED PROPERLY PRIOR TO INSTALLATION OF CURBS AND GUTTER, ASPHALT PAVING, SIDEWALKS, CONCRETE PADS, ETC.
3. THIS SYSTEM WAS DESIGNED AT A MINIMUM STATIC PRESSURE OF 60 PSI AT THE POINT OF CONNECTION. CONTRACTOR SHALL VERIFY ACTUAL PSI AND DELIVER RESULTS TO LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. IN THE EVENT THE ACTUAL PSI IS LESS THAN 60 PSI THE CONTRACTOR SHALL RECEIVE DIRECTION FROM LANDSCAPE ARCHITECT REGARDING DESIGN MODIFICATIONS IF NECESSARY.
4. THE CONTRACTOR SHALL PROVIDE TWO 120-VOLT, 20 AMP CIRCUITS FROM ELECTRICAL SOURCE TO IRRIGATION CONTROLLER AND BACKFLOW PREVENTOR ENCLOSURE (ONE TO EACH). ALL WORK AND MATERIALS SHALL MEET LOCAL CODES AND THE NATIONAL ELECTRIC CODE (N.E.C.). ELECTRICAL WORK, INCLUDING POWER DROP, SHALL BE INCIDENTAL TO THE IRRIGATION WORK.
5. THE CONTRACTOR SHALL INSTALL ALL OF MAIN LINE AS PART OF PHASE 1 CONSTRUCTION.

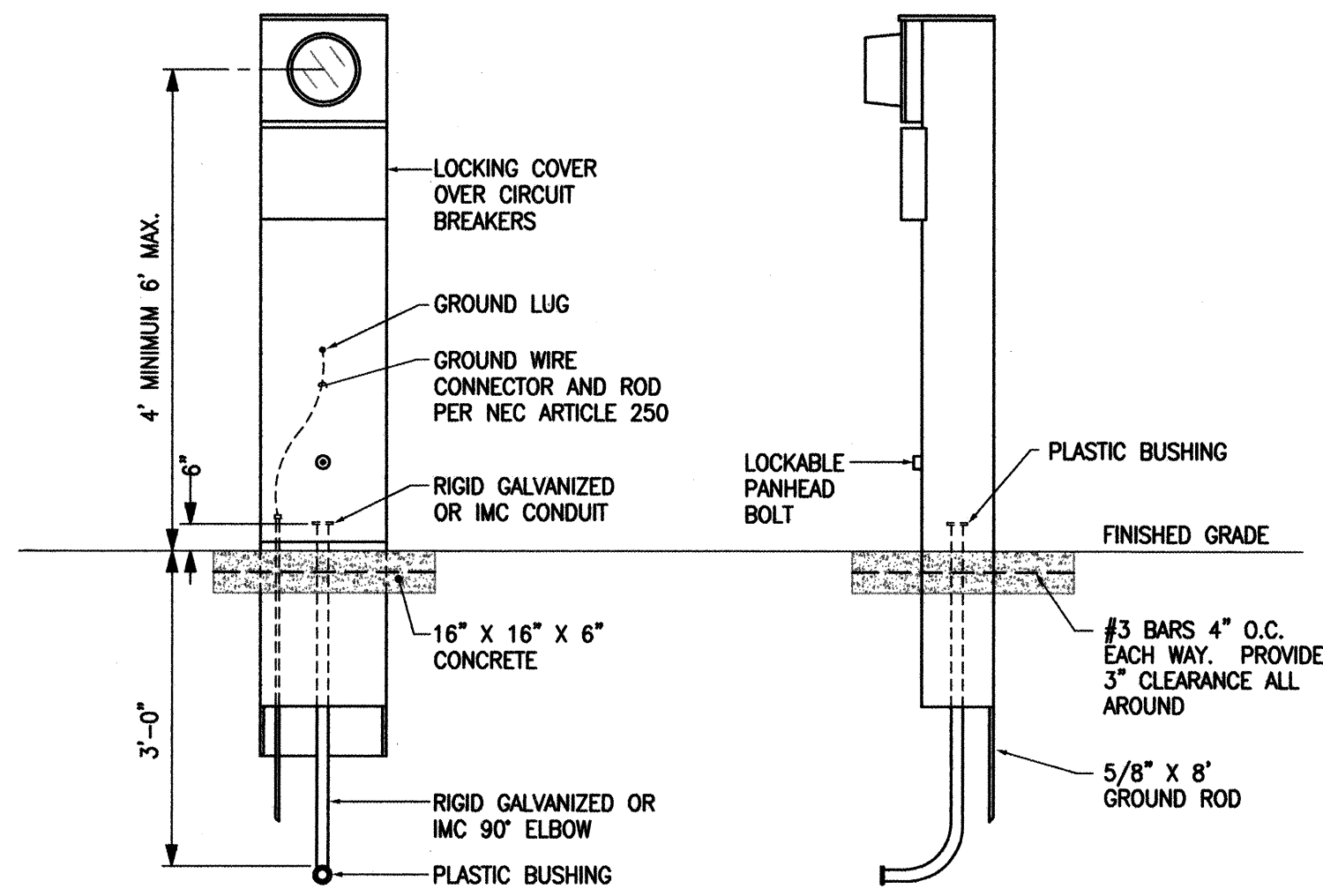
CITY OF ALBUQUERQUE  
CAPITAL IMPLEMENTATION PROGRAM

Design Review Committee	City Engineer Approval	Last Design Updates	
		Mo./Day/Yr.	Mo./Day/Yr.
APR 29 2003	APR 29 2003		
DESIGN REVIEW COMMITTEE			

CITY PROJECT NO. 6385.01/2	ZONE MAP NO. K-10/11	SHEET 7	OF 12
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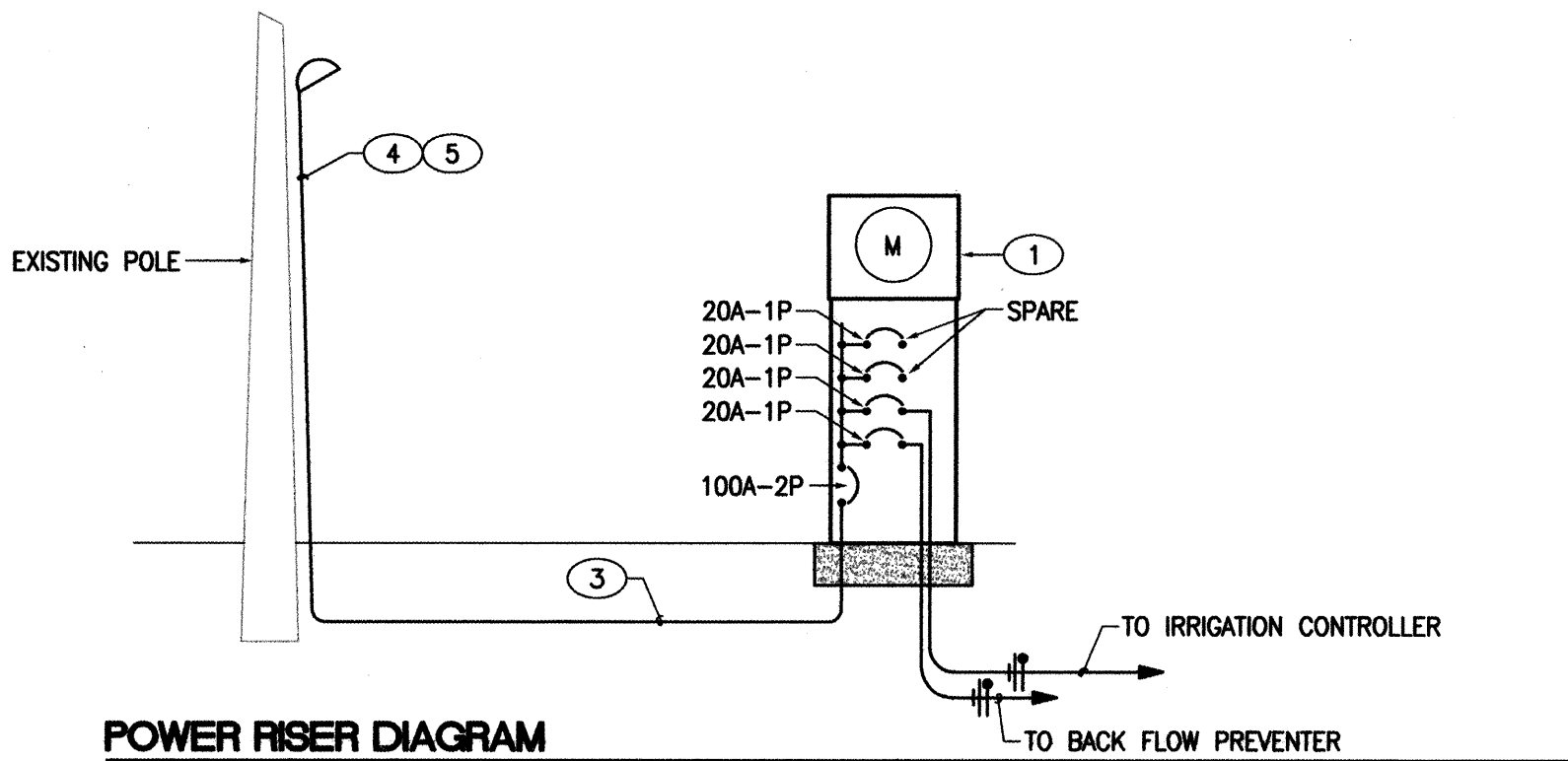
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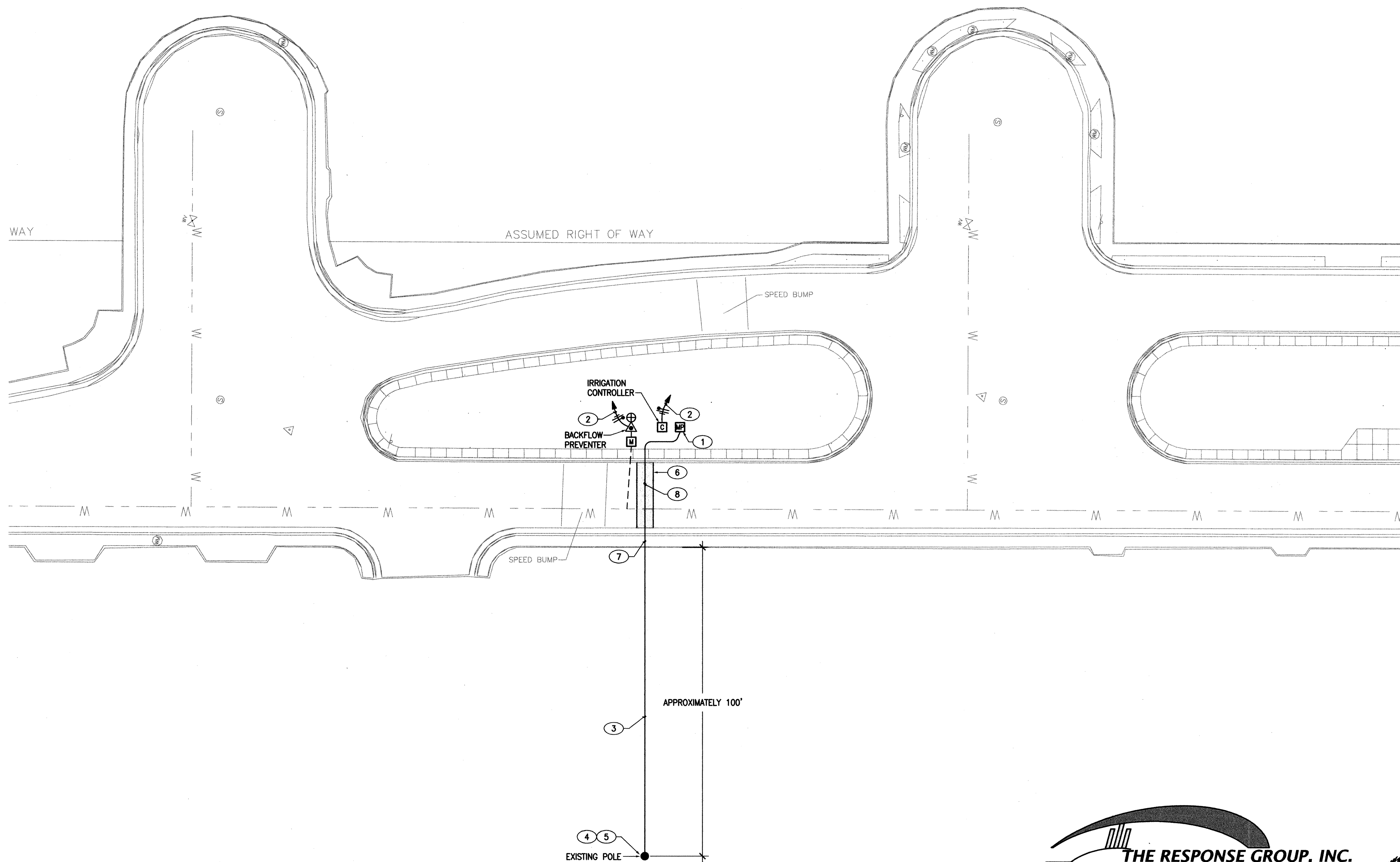
**METERING PEDESTAL DETAIL**

NO SCALE



**POWER RISER DIAGRAM**

NO SCALE



**ELECTRICAL SITE PLAN**

SCALE: 1"=20'-0"

**KEYED NOTES**

- 120/240 VOLT SINGLE PHASE 100 AMP METERING PEDESTAL WITH A 100A-2P MAIN BREAKER AND A MINIMUM OF FOUR 20A-1P BRANCH CIRCUIT BREAKERS. REFER TO DETAIL THIS SHEET FOR MOUNTING. COORDINATE EXACT REQUIREMENTS WITH PNM.
- EXTEND CIRCUIT TO 20A-1P CIRCUIT BREAKERS LOCATED IN METERING PEDESTAL.
- (3) #2 THWN AND (1) #8 THWN GROUND IN 2" CONDUIT.
- RISER UP POLE PER PNM REQUIREMENTS.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH PNM.
- REMOVAL AND REPLACEMENT OF ASPHALT PER C.O.A. STANDARD DRAWING #2465.
- BORE UNDER EXISTING WALK, CURB, AND GUTTER.
- INSTALL CONDUIT UNDERNEATH PAVEMENT.

**WARNING**

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 BY THE UTILITY OR PIPELINE COMPANY, THE OWNER OR BY OTHERS, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES.

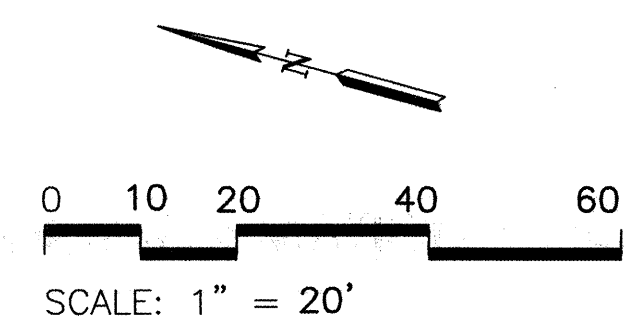
THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF TO THE LOCATION OF ANY UTILITY LINE, PIPELINE OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE OF ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES, AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES IN PLANNING AND CONDUCTING EXCAVATION, WHETHER BY CALLING OR NOTIFYING THE UTILITIES, COMPLYING WITH "BLUE STAKES" PROCEDURES, OR OTHERWISE.

**ELECTRICAL SPECIFICATIONS**

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE AND INSTALL ALL ELECTRICAL FACILITIES IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, PLANS AND ASSOCIATED NOTES. NATIONAL ELECTRICAL CODE, STATE & LOCAL CODES, AND IN A WORKMANLIKE MANNER.
- CONTRACTOR SHALL BECOME FAMILIAR WITH EXISTING CONDITIONS AT JOB SITE.
- THE ELECTRICAL CONTRACTOR SHALL INCLUDE IN HIS BID THE COSTS OF ALL PERMITS, TESTS AND INSPECTIONS, AND VISIT THE SITE OF WORK BEFORE SUBMITTING BID.
- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THE OTHER TRADES.
- THE ELECTRICAL CONTRACTOR SHALL GUARANTEE ALL WORK AND MATERIAL FOR A PERIOD OF ONE YEAR AFTER DATE OF ACCEPTANCE.
- A SET OF MARKED UP PRINTS SHALL BE PREPARED SHOWING ALL CHANGES MADE DURING CONSTRUCTION AND TURN IT OVER TO THE OWNER AT THE END OF THE JOB. ALL CHANGES MUST HAVE THE OWNERS APPROVAL.
- ANY DISCREPANCY BETWEEN MATERIAL DESCRIPTION AND CATALOG NO. SHALL BE BROUGHT TO THE ARCHITECTS, ENGINEERS, OR OWNERS ATTENTION IMMEDIATELY.
- ALL CONDUCTORS TO BE #12 AWG THWN EXCEPT WHERE OTHERWISE SHOWN OR NOTED. IT IS PERMISSIBLE FOR THE CONTRACTOR TO USE THHN WIRING IN EXISTING CONDUITS.
- 120 VOLT BRANCH CIRCUIT RUNS WHICH EXCEED ONE HUNDRED FEET IN LENGTH SHALL BE #10 THWN.
- ALL CONDUIT WHICH COMES IN CONTACT WITH EARTH SHALL BE WRAPPED IN SCOTCH WRAP #51 OR PLASTIC COATED. ALL FEEDERS AND HOMERUNS SHALL BE 1" MINIMUM, UNLESS OTHERWISE NOTED.

NOTE: REFER TO KEY MAP ON SHEET 7 OF 12 FOR LOCATION.

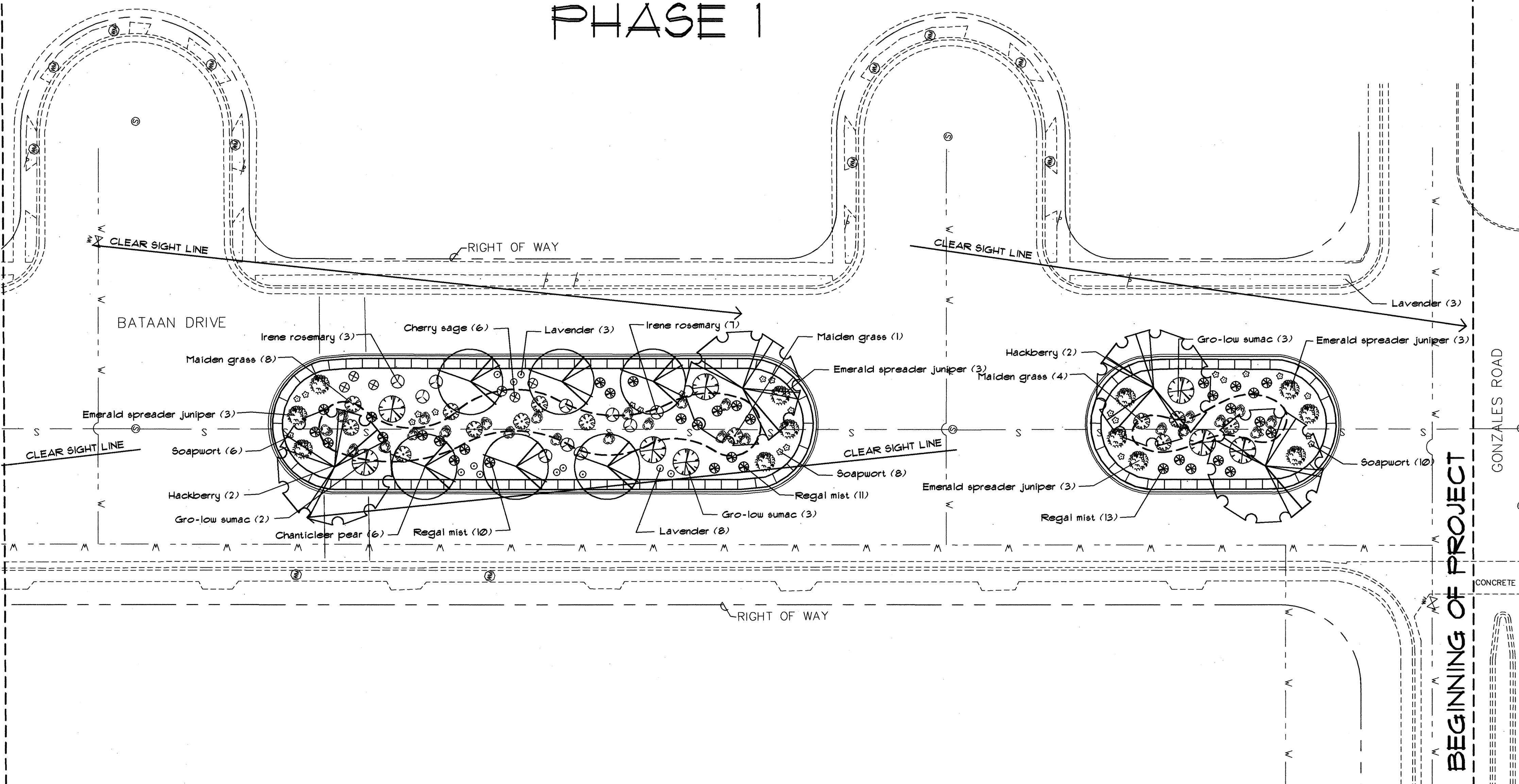
FOR INFORMATION ONLY



<b>AS BUILT INFORMATION</b>		CONTRACTOR		DATE	
		WORK	DATE	WORK	DATE
<b>BEVCH MARKS</b>		APPROVED BY		DATE	
		FIELD	DATE	FIELD	DATE
<b>SURVEY INFORMATION</b>		FIELD NOTES		DATE	
		NO.	BY	NO.	BY
<b>ENGINEER'S SEAL</b>		REVISIONS		DATE	
		NO.	DATE	NO.	DATE
<b>REVISIONS</b>		DESIGNED BY		DATE	
		DESIGNED	DATE	DESIGNED	DATE
<b>DESIGN</b>		DRAWN BY		DATE	
		DRAWN	DATE	DRAWN	DATE
<b>CHECKED BY</b>		CHECKED BY		DATE	
		CHECKED	DATE	CHECKED	DATE



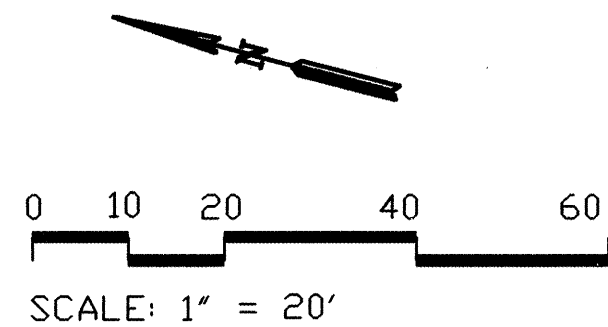
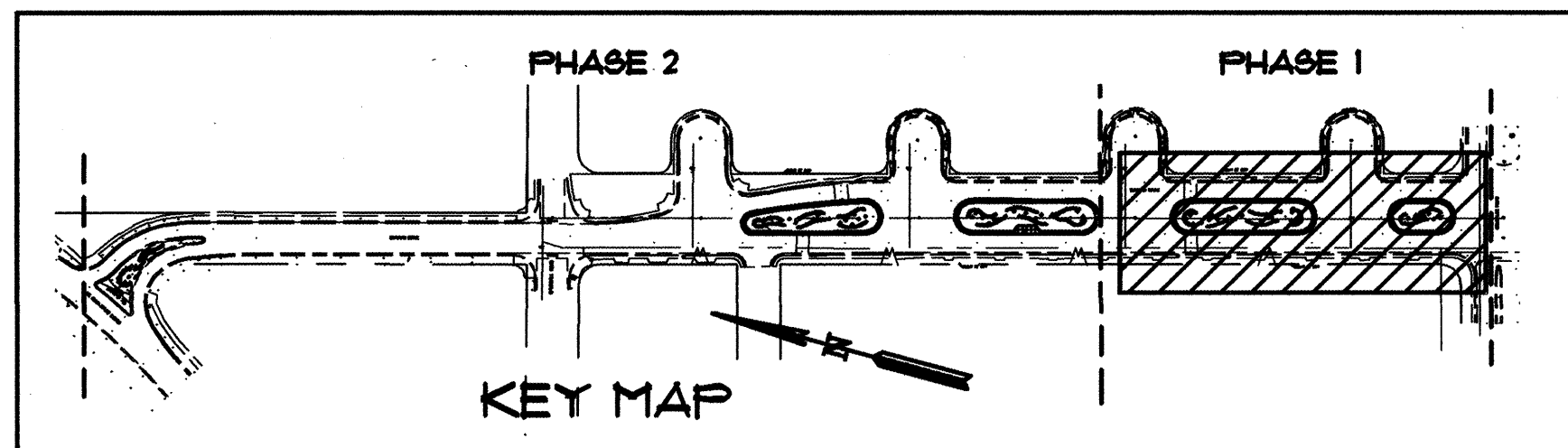
MATCHLINE (SEE SHEET 10)



PLANT LEGEND - PHASE 1					
COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE		COMMENTS
			INSTALLED	MATURE	
<b><u>TREES</u></b>					
Chanticleer pear	Fyrus calleryana 'Chanticleer'	6	2 1/2" Cal.	30'-40" ht., 15'-20' spd.	
Hackberry	Celtis occidentalis	4	2 1/2" Cal.	40' ht. & spd.	
<b><u>SHRUBS</u></b>					
Cherry Sage	Salvia greggii	6	5 Gal.	2'-3' ht., 2' spd.	
Emerald Spreader Juniper	Juniperus horizontalis 'Emerald Spreader'	12	5 Gal.	6" ht., 8' spd.	
Gro-Low Sumac	Rhus aromatica 'Gro-Low'	8	5 Gal.	3' ht., 8' spd.	
Irene Rosemary	Rosmarinus officinalis 'Irene'	10	5 Gal.	2' ht., 4' spd.	
Lavender	Lavandula angustifolia 'Hidcote'	11	5 Gal.	1'-3" ht., 1'-6" spd.	
Maiden Grass	Miscanthus sinensis 'Gracillimus'	13	5 Gal.	5'-6' ht., 3'-4' spd.	
Regal Mist	Muhlenbergia capellensis 'Regal Mist'	34	5 Gal.	3'-4' ht., 3' spd.	
Soapwort	Saponaria ocymoides	24	5 Gal.	10" ht., 3' spd.	

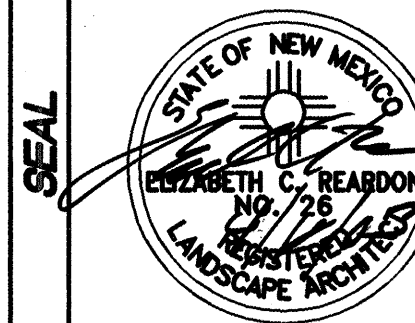
### PLANTING NOTES

- IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LIST AND THOSE SHOWN ON THE PLANTING PLANS, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR DISCREPANCIES IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT LIST.
- GRAVEL MULCH \* SHALL BE A 4" DEPTH OF 1/2" ADOBE ROSE CRUSHED GRAVEL MULCH, AVAILABLE FROM VULCAN MATERIALS (505)-345-4152, WITH WEED BARRIER UNDER, INSTALLED THROUGHOUT ALL MEDIANS EXCEPT WHERE 4"-6" RIVER ROCK IS SPECIFIED. WEED BARRIER SHALL BE MIN. 3.5 OZ. WOVEN, NEEDLE PUNCHED POLYPROPYLENE (DEWITT OR EQUAL). OVERLAY ENDS 3". TURN DOWN PERIMETER EDGES 6". TOP OF MULCH SHALL BE SET 1" BELOW TOP OF ADJACENT CONCRETE SURFACES.
- THE CONTRACTOR SHALL PRUNE LOWER BRANCHES OF DECIDUOUS TREES TO 6 FEET ABOVE FINISH GRADE.
- SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH C.O.A. STANDARD DRAWING \* 2717 (SIMILAR; MULCH SHALL BE AS SPECIFIED ON DRAWINGS).
- TREES SHALL BE PLANTED IN ACCORDANCE WITH C.O.A. STANDARD DRAWING \* 2714 (SIMILAR; MULCH SHALL BE AS SPECIFIED ON DRAWINGS).
- TREES SHALL BE PLANTED A MINIMUM OF 10' FROM EXISTING SEWER LINE.



FOR INFORMATION ONLY

CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
TITLE: BATAAN MEDIANS PLANTING PLAN			
Design Review Committee APPROVE APR 29 2003 DESIGN REVIEW COMMITTEE	City Engineer Approval APPROVE APR 29 2003 CITY ENGINEER	Mo./Day/Yr.	Mo./Day/Yr.
CITY PROJECT NO. 6385.012		ZONE MAP NO. K-10/11	SHEET 9 OF 12



### SURVEY INFORMATION

FIELD NOTES	
NO.	DATE

### BENCH MARKS

ASC STATION "B-K10, 1989", ALUMINUM CAP SET FLUSH WITH TOP OF CURB AT COORS BLVD. S.W. & AIRPORT DR. S.W.	DATE
ELEVATION = 5082.145 (SLD 1924)	DATE
	DATE
	DATE

### AS BUILT INFORMATION

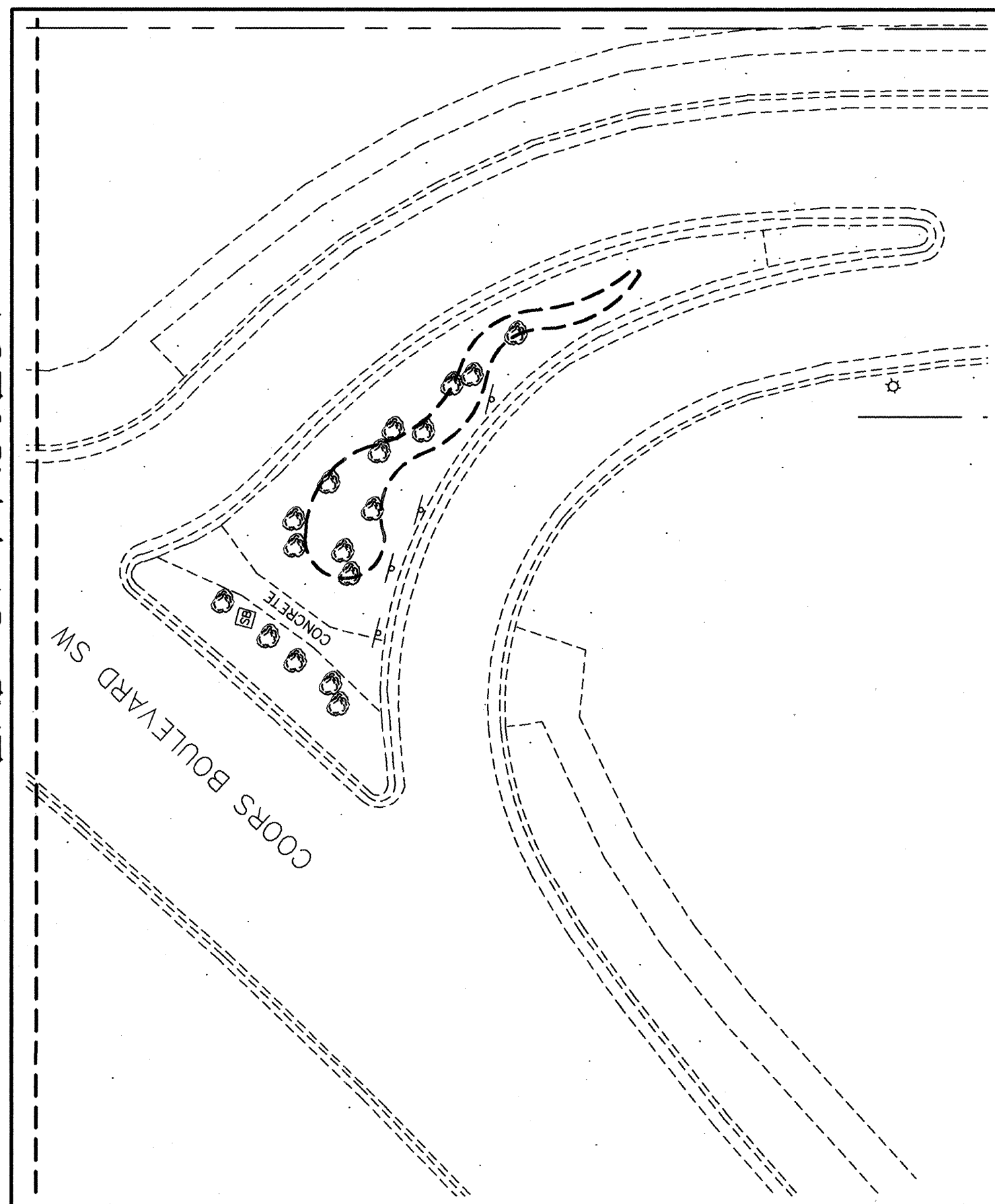
CONTRACTOR	DATE
	DATE
	DATE
	DATE

### MICRO-FILM INFORMATION

RECORDED BY	DATE
	DATE
	DATE
	DATE

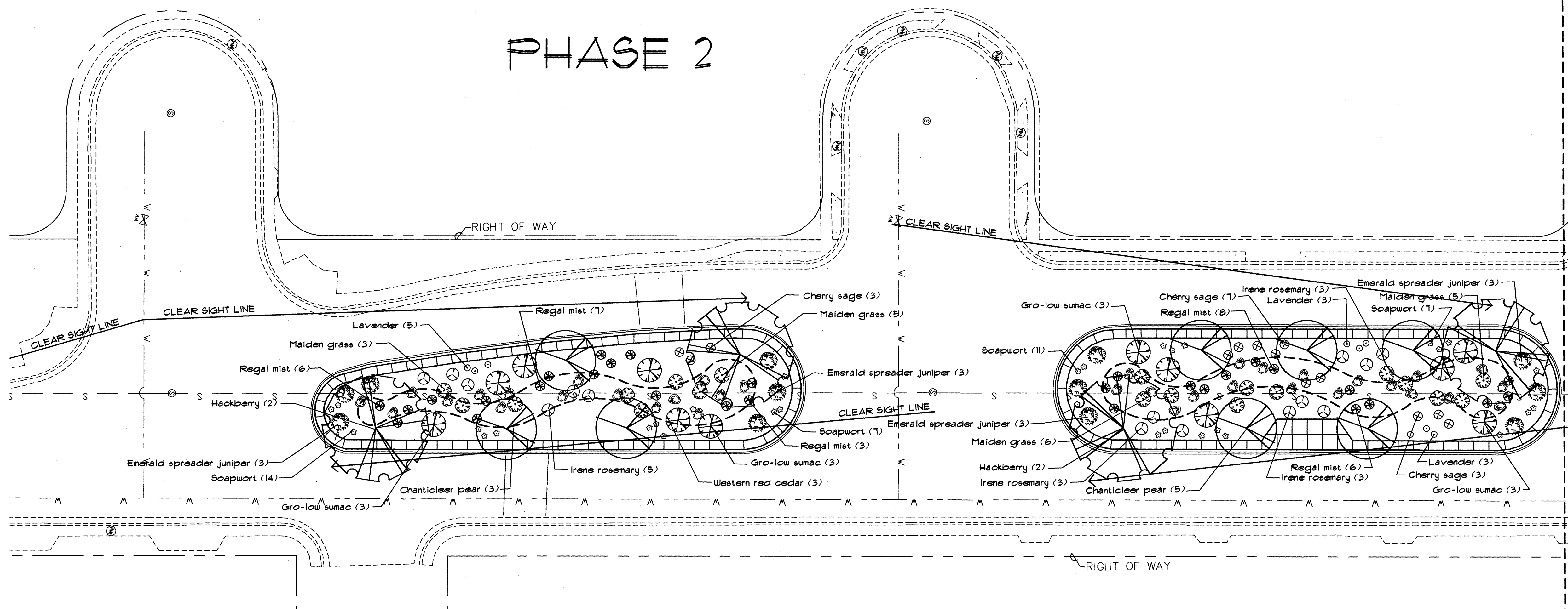


END OF PROJECT



NORTH MEDIAN: FOR LOCATION  
SEE KEY MAP.

## PHASE 2



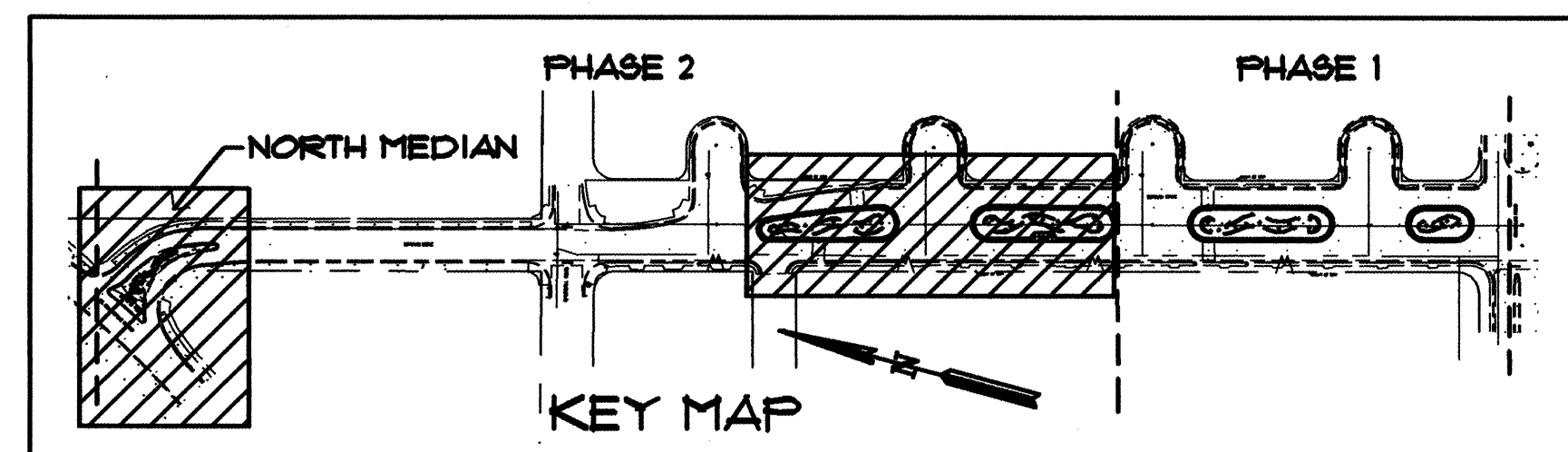
MATCHLINE (SEE SHEET 9)

### PLANTING NOTES

1. IN CASE OF DISCREPANCY IN PLANT QUANTITIES SHOWN ON THE PLANT LIST AND THOSE SHOWN ON THE PLANTING PLANS, THE QUANTITIES SHOWN ON THE PLAN SHALL GOVERN. CONTRACTOR SHALL VERIFY ALL QUANTITIES PRIOR TO BID AND INSTALLATION. NO ADDITIONAL PAYMENT WILL BE MADE FOR DISCREPANCIES IN QUANTITIES BETWEEN THE PLANTING PLAN AND THE PLANT LIST.
2. GRAVEL MULCH \* SHALL BE A 4" DEPTH OF 1/2" ADOBE ROSE CRUSHED GRAVEL MULCH, AVAILABLE FROM VULCAN MATERIALS (505)-348-4152, WITH WEED BARRIER UNDER. INSTALLED THROUGHOUT ALL MEDIANS EXCEPT WHERE 4"-6" RIVER ROCK IS SPECIFIED. WEED BARRIER SHALL BE MIN. 35 OZ WOVEN NEEDLE PUNCHED POLYPROPYLENE (DEWITT OR EQUAL). OVERLAY ENDS 3". TURN DOWN PERIMETER EDGES 6". TOP OF MULCH SHALL BE SET 1" BELOW TOP OF ADJACENT CONCRETE SURFACES.
3. THE CONTRACTOR SHALL PRUNE LOWER BRANCHES OF DECIDUOUS TREES TO 6 FEET ABOVE FINISH GRADE.
4. SHRUBS SHALL BE PLANTED IN ACCORDANCE WITH C.O.A. STANDARD DRAWING \* 2111 (SIMILAR: MULCH SHALL BE AS SPECIFIED ON DRAWINGS).
5. TREES SHALL BE PLANTED IN ACCORDANCE WITH C.O.A. STANDARD DRAWING \* 2114 (SIMILAR: MULCH SHALL BE AS SPECIFIED ON DRAWINGS).
6. TREES SHALL BE PLANTED A MINIMUM OF 10' FROM EXISTING SEWER LINE.

### PLANT LEGEND - PHASE 2

COMMON NAME	BOTANICAL NAME	QUANTITY	SIZE		COMMENTS
			INSTALLED	MATURE	
TREES					
Chanticleer pear	Pyrus calleryana 'Chanticleer'	8	2 1/2" Cal.	30'-40' ht., 15'-20' spd.	
Hackberry	Celtis occidentalis	4	2 1/2" Cal.	40' ht. 4 spd.	
SHRUBS					
Cherry Sage	Salvia greggii	13	5 Gal.	2'-3' ht., 2' spd.	
Emerald Spreader Juniper	Juniperus horizontalis 'Emerald Spreader'	12	5 Gal.	6" ht., 8' spd.	
Gro-Low Sumac	Rhus aromatica 'Gro-Low'	12	5 Gal.	3' ht., 8' spd.	
Irene Rosemary	Rosmarinus officinalis 'Irene'	15	5 Gal.	2' ht., 4' spd.	
Lavender	Lavandula angustifolia 'Hidcote'	9	5 Gal.	1'-3' ht., 1'-6" spd.	
Maiden Grass	Miscanthus sinensis 'Gracillimus'	18	5 Gal.	5'-6' ht., 3'-4' spd.	
Regal Mist	Muhlenbergia capillensis 'Regal Mist'	30	5 Gal.	3'-4' ht., 3' spd.	
Soapwort	Saponaria ocymoides	31	5 Gal.	10" ht., 3' spd.	



0 10 20 40 60  
SCALE: 1" = 20'

**MORROW REARDON WILKINSON LTD. LANDSCAPE ARCHITECTS**  
210 La Veta NE, Albuquerque, NM 87106  
505.266.2266 FAX 505.265.9637  
mrw@mrwnm.com

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE CAPITAL IMPLEMENTATION PROGRAM			
TITLE: BATAAN MEDIANS PLANTING PLAN			
Design Review Committee APR 29 2003 DESIGN REVIEW COMMITTEE	City Engineer Approval APR 29 2003 CITY ENGINEER	Mo/Day/Yr	Mo/Day/Yr
CITY PROJECT NO. 6385.01-2		ZONE MAP NO. K-10/11	SHEET 10 OF 12

SURVEY INFORMATION		BENCH MARKS		AS BUILT INFORMATION	
FIELD NOTES	DATE	ASC STATION "8-K10, 1989"	ALUMINUM CAP SET	CONTRACTOR	DATE
BY		FLUSH WITH TOP OF CURB AT COORS BLVD. S.W. &		WORK	DATE
NO.		AIRPORT DR. S.W.		ASISTANCE BY	DATE
		ELEVATION = 5082.145 (SLD 1924)		FIELD	DATE
				DRAWING	DATE
				CORRECTED BY	DATE
				RECORDED BY	DATE
				NO.	

SEAL

STATE OF NEW MEXICO  
ELIZABETH P. REARDON  
LANDSCAPE ARCHITECT

REVISIONS	BY	DATE
DESIGN	JSP	4/17/03
DRAWN BY	JSP	4/17/03
CHECKED BY	ECR	4/17/03



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 SEPERATE 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. 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 TRAVELED 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. 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.  
3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORK CONSTRUCTION, AS WELL AS OTHER SECTIONS.

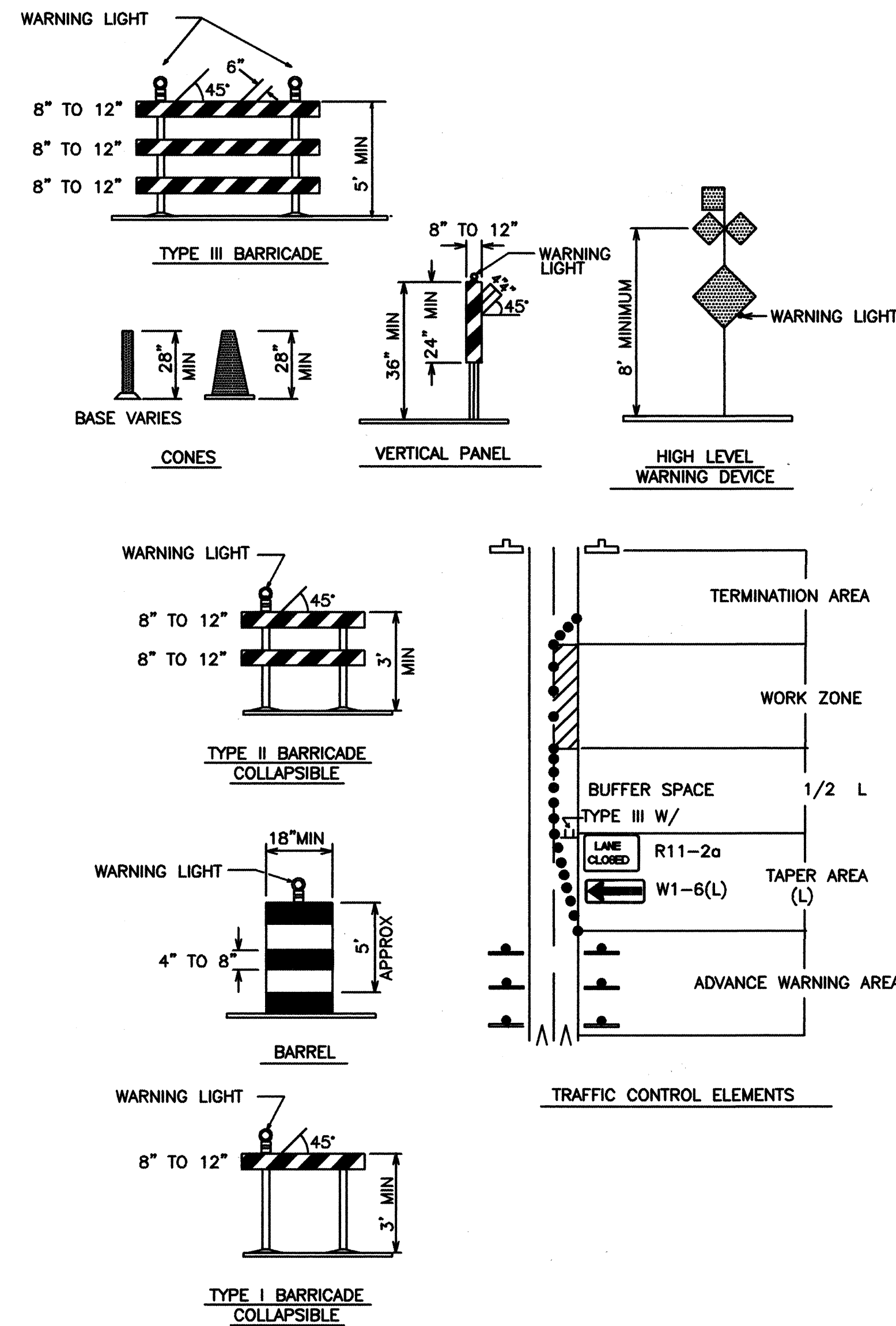
23. FAILURE TO COMPLY WITH ANY OF THE ABOVE MENTIONED, WILL BE ADEQUATE CAUSE TO CEASE ALL WORK ON ANY CONSTRUCTION PROJECT. WORK WILL NOT RESUME UNTIL ALL REQUIREMENTS ARE ADDRESSED AND APPROVED BY CONSTRUCTION COORDINATION.

24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION, WASHING OF EQUIPMENT IS INCIDENTAL TO 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 HEIGHT 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.



**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 STREET LIMIT OF THE STREET  
TAPER LENGTH - SEE CHART BELOW

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

TAPER REQUIREMENT

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	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

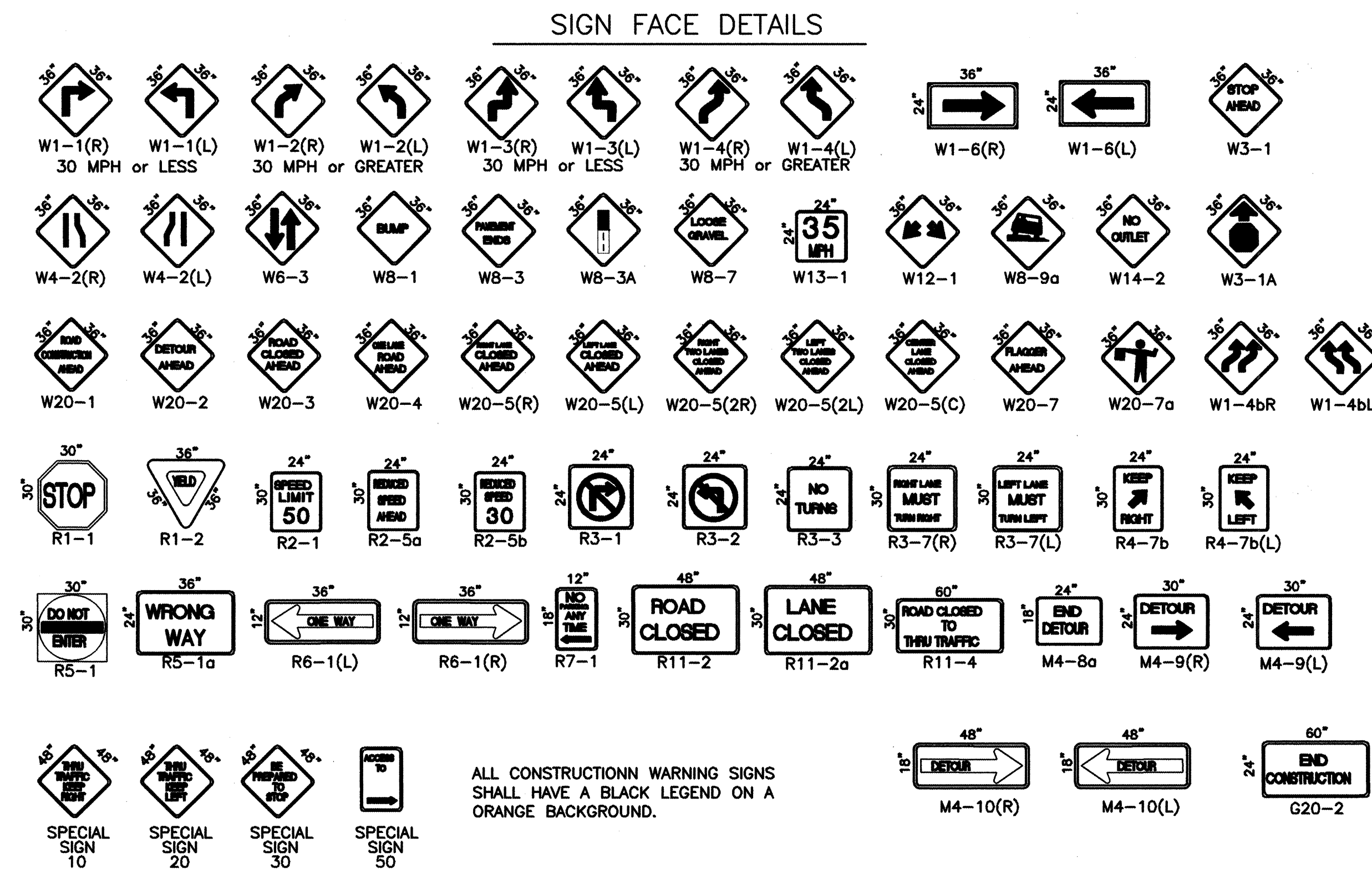
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
40 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

FOR INFORMATION ONLY



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

CITY OF ALBUQUERQUE  
PUBLIC WORKS DEPARTMENT  
ENGINEERING DEVELOPMENT GROUP

TITLE: TRAFFIC CONTROL  
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

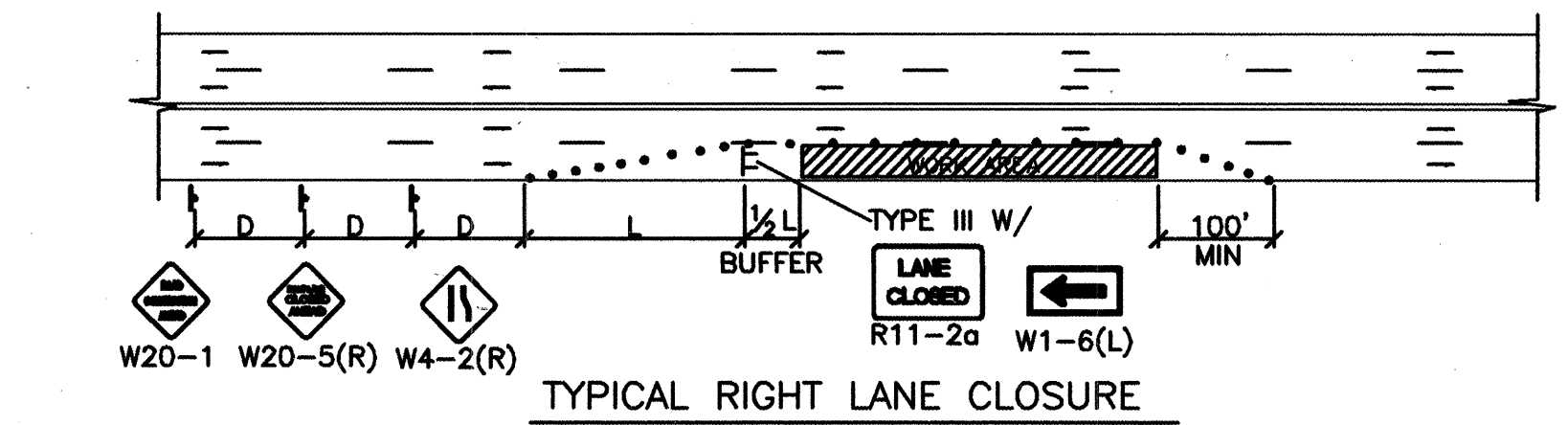
DESIGN REVIEW COMMITTEE: CITY ENGINEER APPROVAL

CITY PROJECT NO. 6385.012

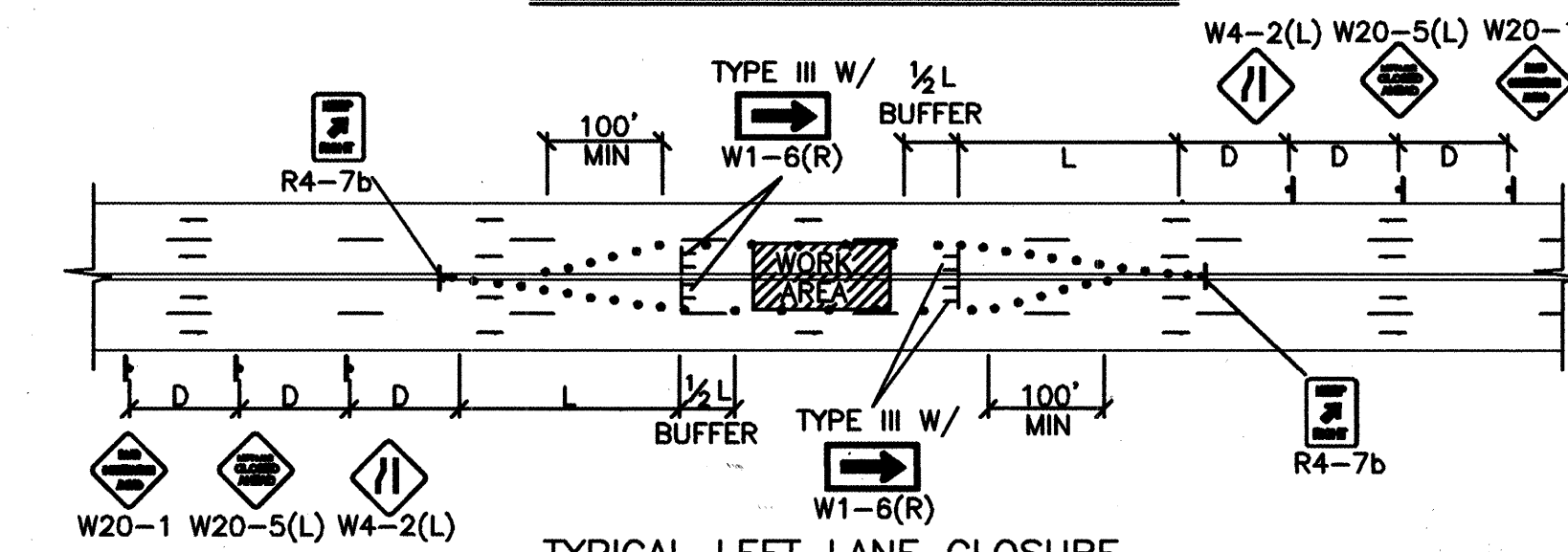
ZONE MAP NO. K-10/ 11

SHEET 11 OF 12

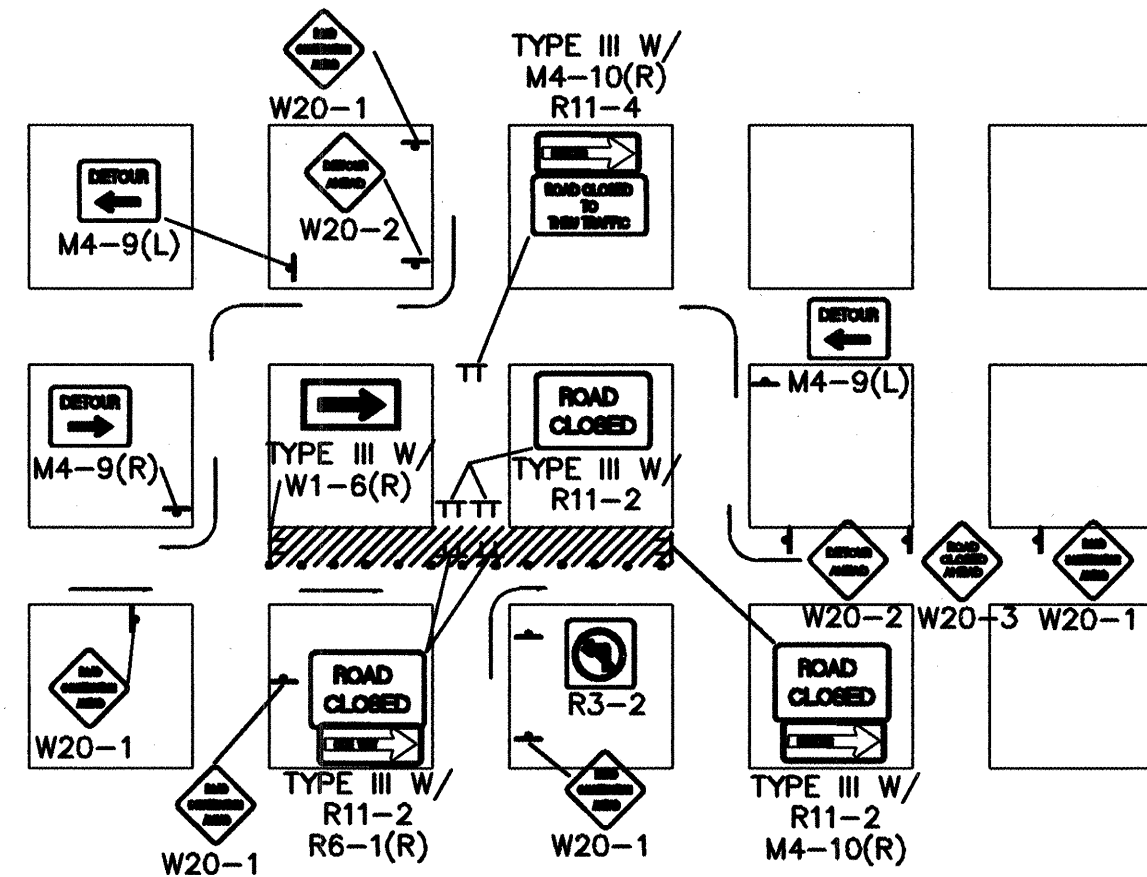




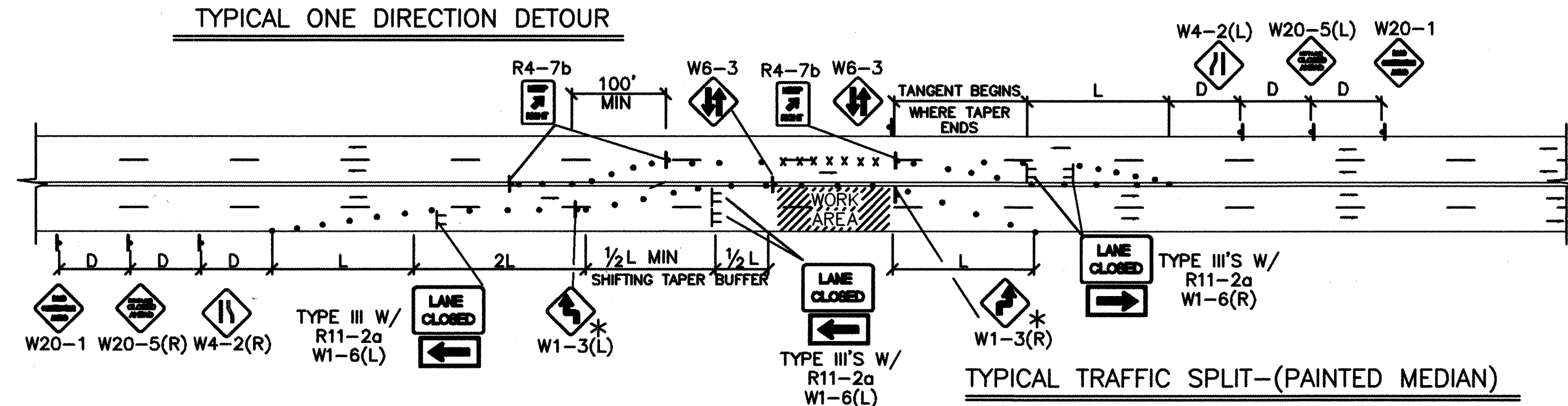
TYPICAL RIGHT LANE CLOSURE



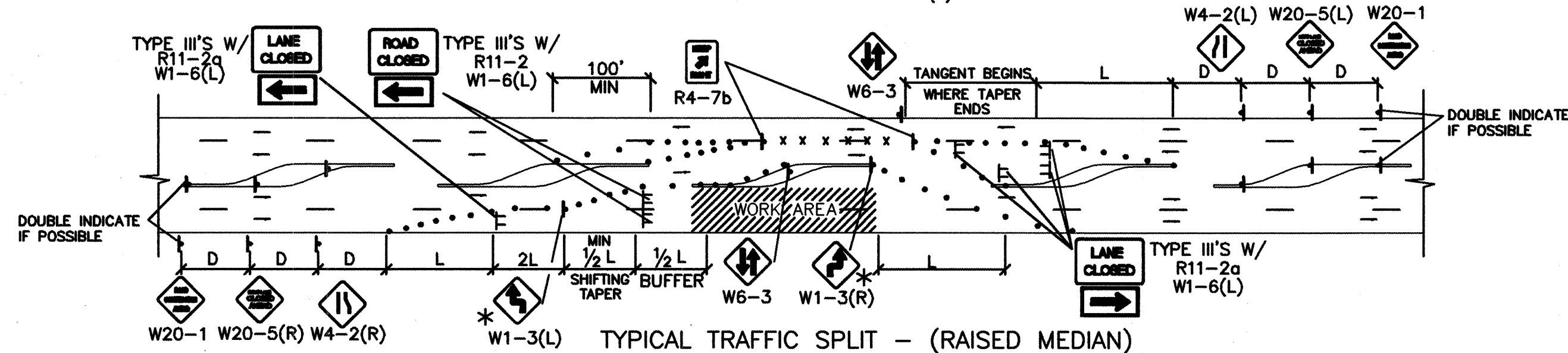
TYPICAL LEFT LANE CLOSURE



TYPICAL ONE DIRECTION DETOUR

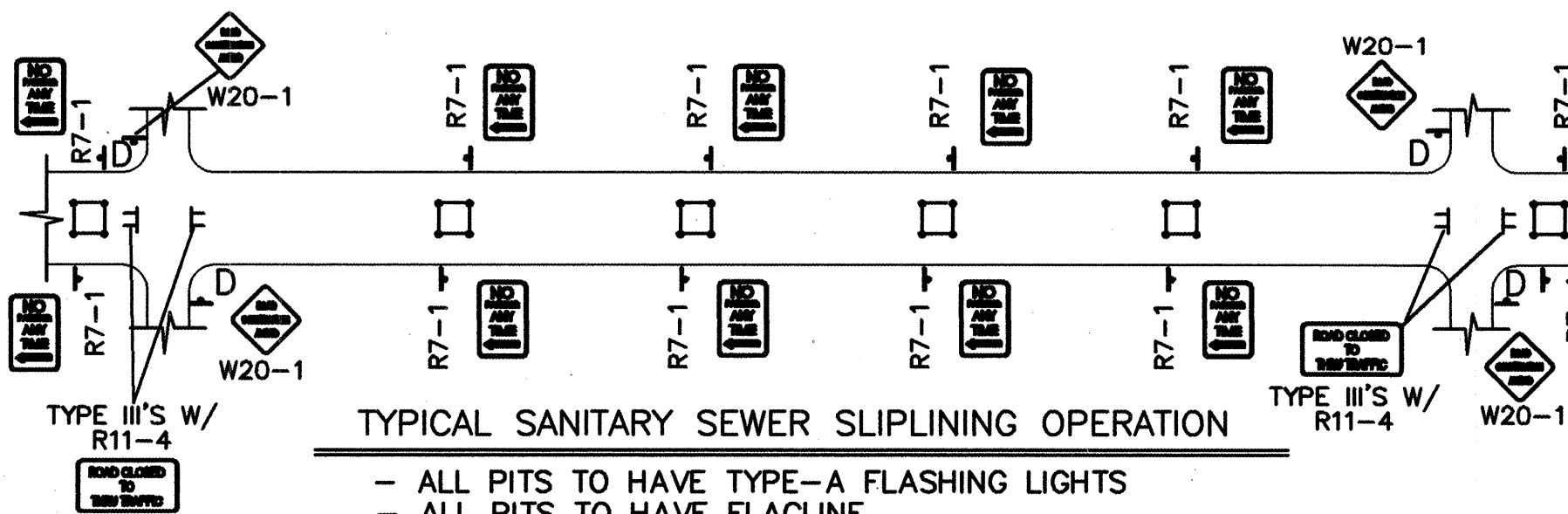


TYPICAL TRAFFIC SPLIT - (PAINTED MEDIAN)



TRAFFIC SPLIT NOTES:

1. THE OFFSET DISTANCE MUST BE CALCULATED IN ALL SHIFTING TAPERS. THE OFFSET DISTANCES SHALL INCLUDE LANE WIDTHS PLUS MEDIAN WIDTHS.
2. 1/2 L IS THE MINIMUM DISTANCE FOR SHIFTING TAPERS.
3. REVERSE CURVES MAY BE IMPLEMENTED. ALL CURVE DATA SHALL BE CALCULATED.
4. MEDIAN REMOVAL SHALL BE REQUIRED IF 1/2 L OR REVERSE CURVE IS NOT SUFFICIENT. MEDIAN REMOVAL SHALL TAKE PLACE BEFORE SPLITS.
5. REDUCED SPEED MAY BE CONSIDERED.
6. \* USE W1-3 FOR 30 MPH OR LESS, W1-4 FOR SPEED 35 MPH OR GREATER.



TYPICAL SANITARY SEWER SLIPLINING OPERATION

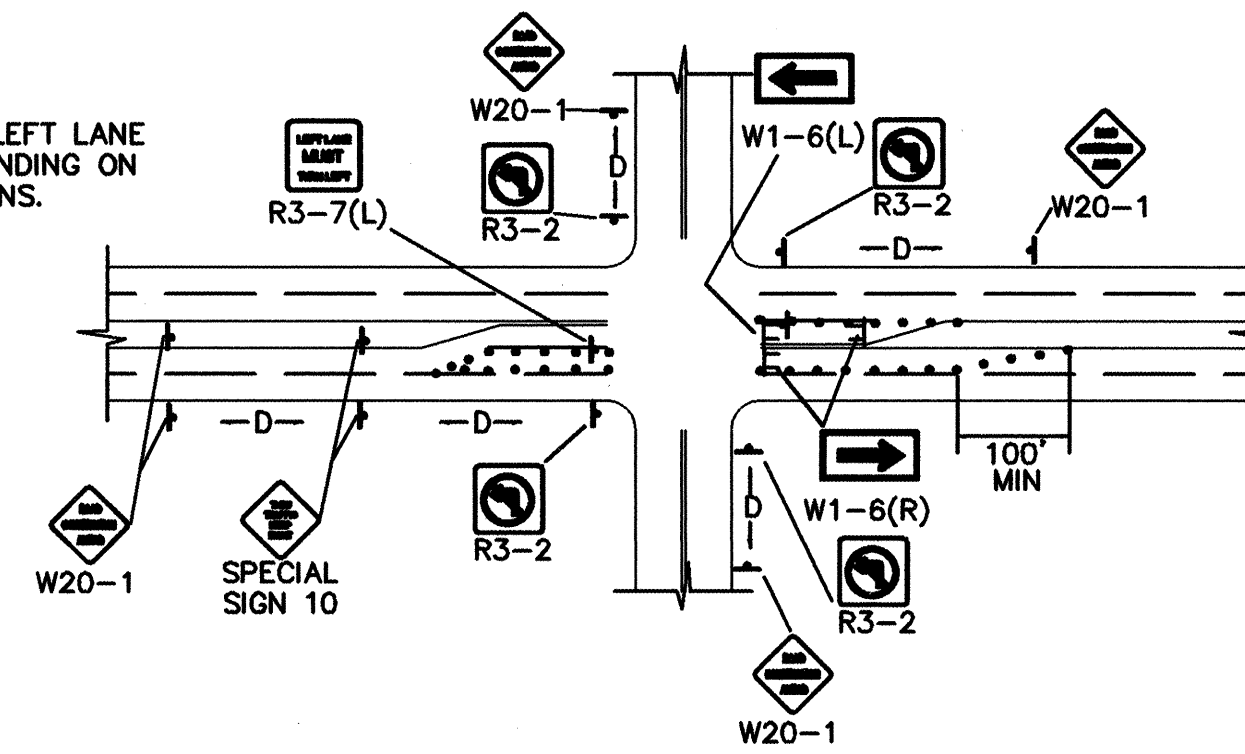
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS
- ALL PITS TO HAVE FLAGLINE

GENERAL NOTE:

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

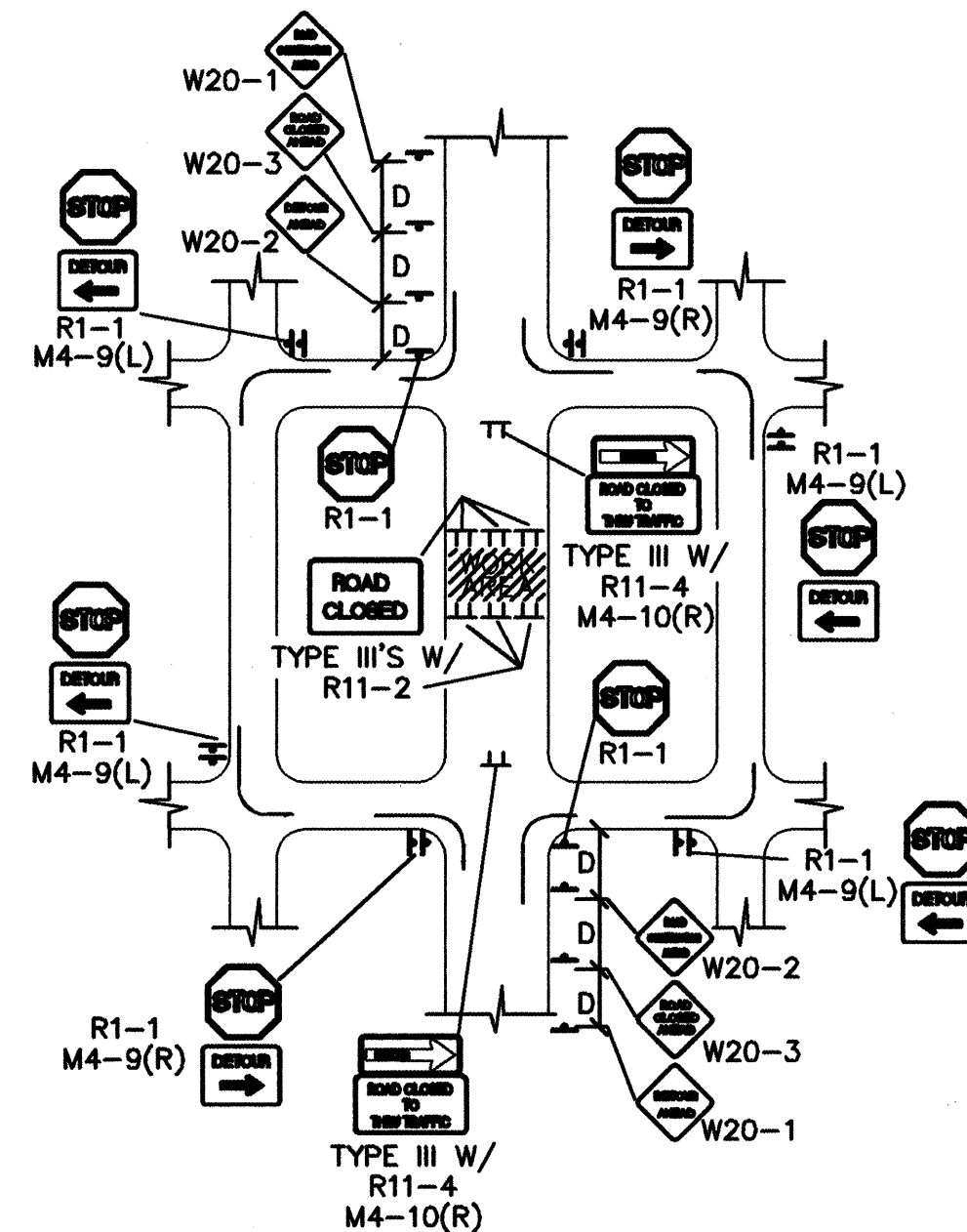
ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF 36" THIRTY SIX INCHES BY 36" THIRTY SIX INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.

NOTE: MAY REQUIRE LEFT LANE CLOSURE DEPENDING ON FIELD CONDITIONS.



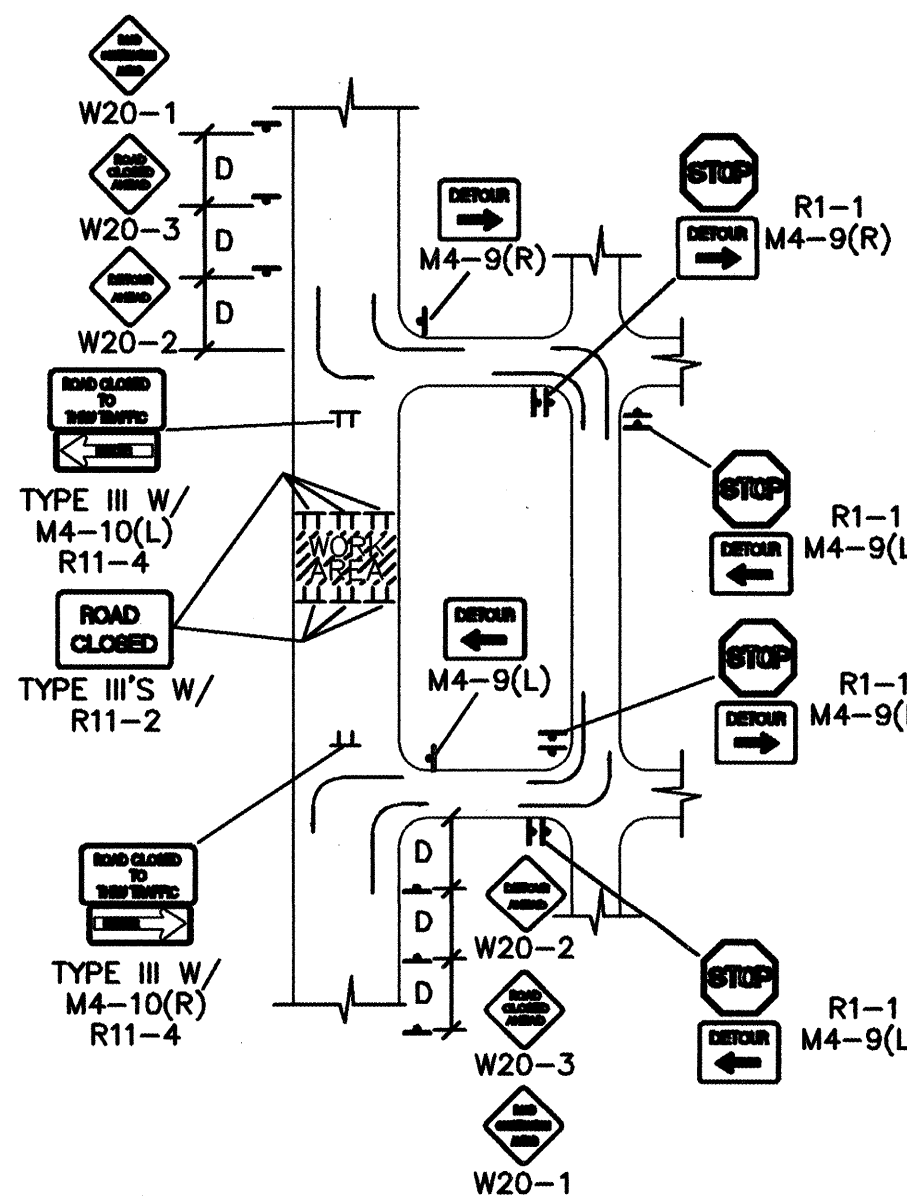
TYPICAL LANE CLOSURE AT INTERSECTION

NOTE: DEPENDING ON WORK ZONE LOCATION.



TYPICAL MID-BLOCK CLOSURE

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



TYPICAL STREET CLOSURE

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

