CITY OF ALBUQUERQUE

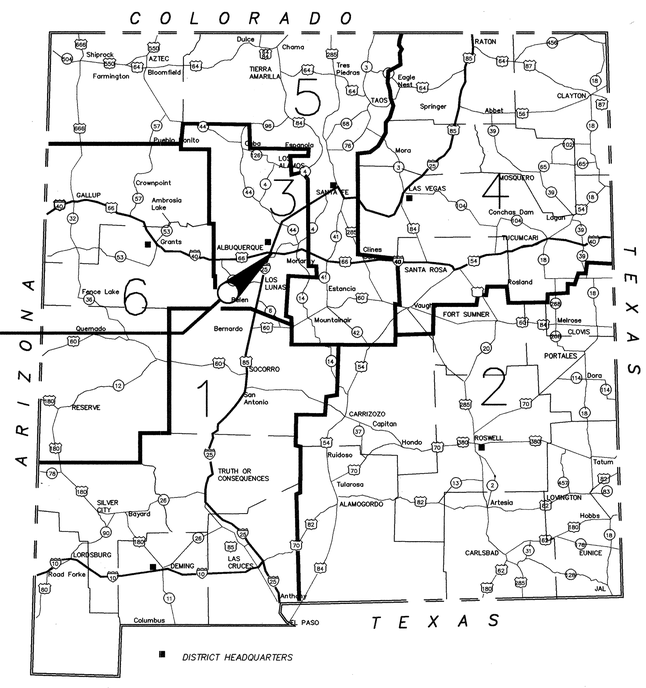
CONSTRUCTION PLANS

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
CAQ 4054 (10) 01
Control Number 3485
CITY PROJECT NO. 5361

STATE HIGHWAY AND TRANSPORTATION DEPARTMENT
THE NEW MEXICO

CAQ 4054 (10) 01
CN3485
CITY OF ALBUQUERQUE PROJECT NO. 5361

SIGNALIZATION (TRAFFIC COMPUTER SIGNAL SYSTEM),CURB & GUTTER WITH SIDEWALK, TRAFFIC CONTROL AND MISCELLANEOUS CONSTRUCTION



CITY OF
Albuquerque

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
6100 Seagull St. NE – Suite 200
Albuquerque, NM 87109 – (505) 881-5357

REV.	SHEETS	CITY ENGINEER	DATE	USER DEPARTMENT	DATE	USER DEPARTMENT	DATE

ENGINEERS STAMP & SIGNATURE

CHRIS E. BARTON — NEW MEXICO — 12133 — REGISTERED PROFESSIONAL ENGINEER — 9-3-96

APPROVALS	ENGINEER	DATE
DRC Chairman		10-7-96
Transportation		9-6-96
Water/Wastewater		9-9-96
Hydrology		9/10/96
Parks		
Constr. Mngmt.		

APPROVED FOR CONSTRUCTION

City Engineer — Date: Nov 5, 1996

PROJECT NO. 5361.91

SHEET 1-1

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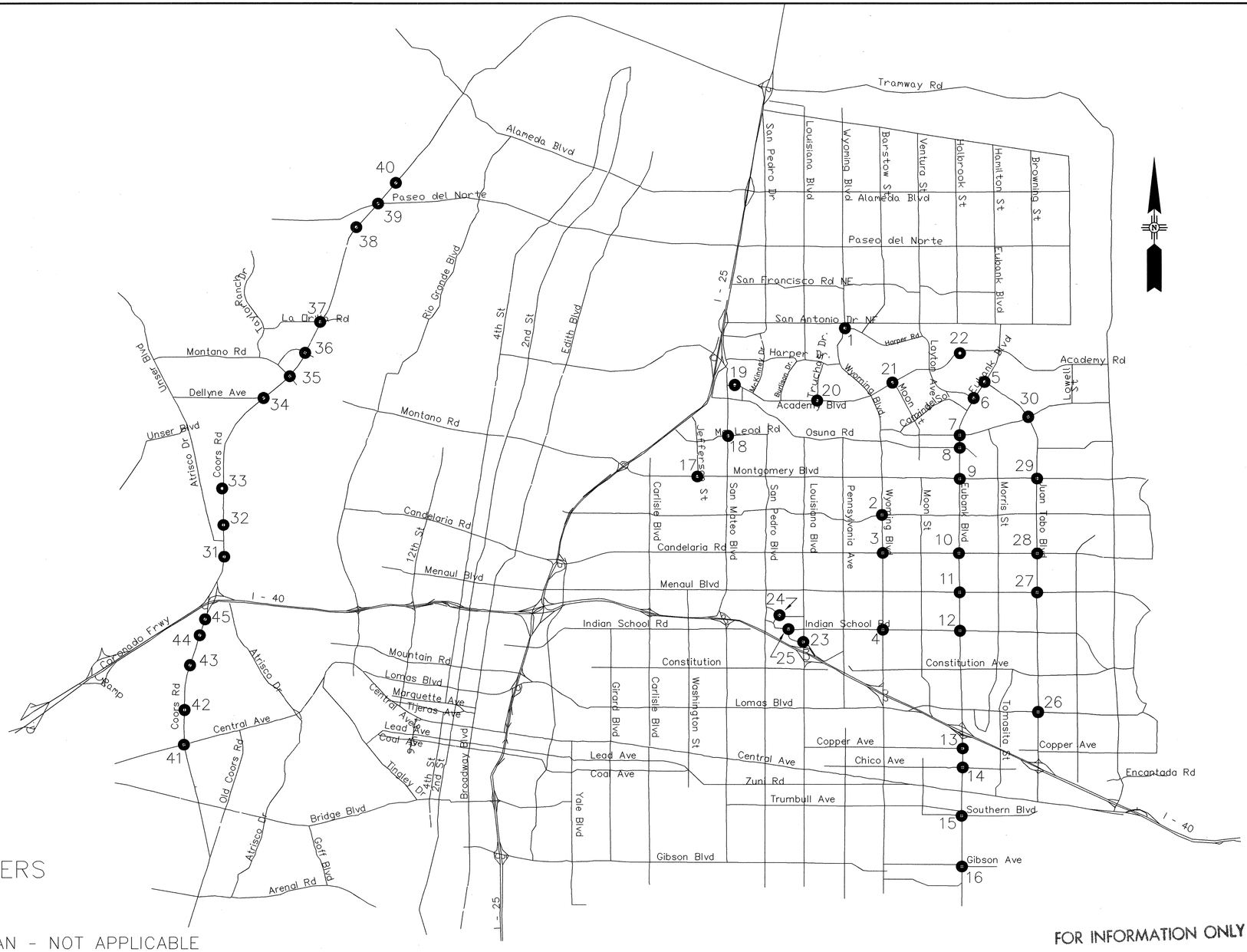

Intersection List

No.	#	LOCATION
1	143	Wyoming/Harper
2	125	Wyoming/Comanche
3	124	Wyoming/Candelaria
4	63	Wyoming/Indian School Rd.
5	202	Eubank/Juan Tabo (T)
6	204	Eubank/Layton (T)
7	207	Eubank/Spain
8	206	Eubank/Osuna
9	137	Eubank/Montgomery
10	158	Eubank/Candelaria
11	179	Eubank/Menaul
12	122	Eubank/Indian School Rd.
13	80	Eubank/Copper
14	79	Eubank/Chico
15	193	Eubank/Southern
16	194	Eubank/Gibson (T)
17	106	Montgomery/Jefferson (T)
18	13	San Mateo/McLeod
19	219	Academy/Far North
20	218	Academy/Truchas (T)
21	209	Academy/Moon
22	208	Academy/Tanoan (T)
23	66	Louisiana/Amks. Pkwy. S.
24	222	Amks. Pkwy./Uptown
25	223	Amks. Pkwy./Indian School
26	177	Juan Tabo/Lomas (911)
27	167	Juan Tabo/Menaul
28	160	Juan Tabo/Candelaria
29	140	Juan Tabo/Montgomery
30	201	Juan Tabo/Spain
31	302	Coors/Quail
32	304	Coors/Sequoia
33	306	Coors/Ladera (St. Joes)
34	312	Coors/Dellyne (T)
35	314	Coors/Montano
36	316	Coors/Montano Plaza
37	318	Coors/La Orilla
38	324	Coors/Sipi (T)
39	325	Coors/Paseo del Norte
40	327	Coors/Irving
41	375	Coors/Central
42	377	Coors/Bluewater
43	379	Coors/Fortuna
44	381	Coors/Hanover
45	383	Coors/Iliff

AS BUILT INFORMATION

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

MICRO-FILM INFORMATION

ENGINEER'S SEAL
CHARLES E. BIAGI
12133
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

BOOK NUMBERS

NOT APPLICABLE

SCALES

PLAN - NOT APPLICABLE
PROFILE - NOT APPLICABLE
LAYOUT - NOT APPLICABLE

SHIPPING POINTS

ALBUQUERQUE, NEW MEXICO

THE 1994 EDITION OF NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR HIGHWAY AND BRIDGE CONSTRUCTION SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

THE CITY OF ALBUQUERQUE WILL BE THE CONTRACTING AGENCY AND OWNER FOR THIS PROJECT. THE "PROJECT MANAGER" AND/OR "ENGINEER" WILL BE DESIGNATED BY THE CITY.

FOR INFORMATION ONLY

LOCATION MAP - PHASE 3A

TYPE OF CONSTRUCTION

SIGNALIZATION (TRAFFIC COMPUTER SIGNAL SYSTEM), CURB AND GUTTER WITH SIDEWALK, TRAFFIC CONTROL AND MISCELLANEOUS CONSTRUCTION

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
TRANSPORTATION DEVELOPMENT

TITLE: DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION – PHASE THREE A CONTROLLER UPGRADE & INTERSECTION MODIFICATION SHEET

APPROVED
OCT - 7 1998
DESIGN REVIEW COMMITTEE

DRAWING 5361.91 | MAP NO. | SHEET 1 – 2

INDEX OF SHEETS

SHEET NO.	DESCRIPTION	REV. DATE	SERIAL
1–1	TITLE SHEET		
1–2	VICINITY MAP		
1–3	INDEX OF SHEETS		
1–4	SUMMARY OF QUANTITIES		
1–5	GENERAL NOTES		
1–6	ENVIRONMENTAL REQUIREMENTS		
1–7	SPECIAL PROVISIONS, SUPPLEMENTAL SPECIFICATIONS AND INCIDENTAL ITEMS		
	SUBTOTAL = 7 SHEETS		
2–1	MISCELLANEOUS DETAILS (WHEELCHAIR RAMPS)		
	SUBTOTAL = 1 SHEET		
3–1	EQUIPMENT REQUIREMENTS AND NOTES		
3–2 TO 3–3	CONTROLLER UPGRADE AND INTERSECTION MODIFICATION SHEETS		
3–4 TO 3–12	INTERSECTION PLANS		
3–13	FOUNDATION DETAILS		
3–14	FOUNDATION MODIFICATION DETAILS		
3–15	METER PEDESTAL PLANS		
3–16	PEDESTRIAN SIGNAL & PUSH BUTTON DETAILS		
3–17	PULL BOX DETAILS		
3–18	LOOP DETECTOR DETAILS		
3–19	TRAFFIC SIGNAL OPTICAL DETECTION INSTALLATION DETAILS		
3–20	TRAFFIC SIGINAL OPTICAL DETECTION PLAN: NORTH–SOUTH–EAST–WEST		
3–21	TRAFFIC SIGNAL OPTICAL DETECTION WIRING DETAILS NORTH–SOUTH		
3–22	TRAFFIC SIGNAL OPTICAL DETECTION WIRING DETAILS EAST–WEST		
3–23	TRAFFIC SIGNAL OPTICAL DETECTION WIRING DETAILS		
	SUBTOTAL = 24 SHEETS		
4–1	SPECIAL TRAFFIC CONTROL REQUIREMENTS		
4–2	TYPICAL TRAFFIC CONTROL PLAN		
4–3	SIGNING AND CONST. TRAFFIC CONTROL STANDARDS		
4–4	TYPICAL TRAFFIC CONTROL AND SIGNING EXAMPLES		
	SUBTOTAL = 4 SHEETS		
	TOTAL = 36 SHEETS		

SHEET NO.	DESCRIPTION	REV. DATE	SERIAL

AS BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
ASCENT/AS BUILT BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY — DATE
NO.

ENGINEER'S SEAL
CHARLES E. BAILEY 12133 REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY RLB — DATE
DRAWN BY DS — DATE
CHECKED BY CP — DATE

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 OSUNA RD. NE – Suite 200
Albuquerque, NM 87109 – (505) 881-5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
INDEX OF SHEETS

APPROVED
OCT – 7 1996
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 1–3

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ITEM NO.	ITEM	UNIT	ROADWAY		CONSTRUCTION SIGNING		PERMANENT SIGNING		CONSTRUCTION ENGINEERING		SIGNALIZATION		PROJECT TOTALS	
			Estimated Quantity	Final	Estimated Quantity	Final	Estimated Quantity	Final	Estimated Quantity	Final	Estimated Quantity	Final	Estimated Quantity	Final
511000	STRUCTURAL CONCRETE	Cu. Yd.									4		4	
540060	REINFORCING BARS GRADE 60	LB									72		72	
601000	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LS	1										1	
608004	SIDEWALK, 4"	Sq. Yd.	200										200	
608404	CONCRETE MEDIAN PAVEMENT 4" (COLORED AND PATTERNED)	Sq. Yd.	270										270	
609450	CONCRETE BARRIER CURB AND GUTTER TYPE B-8"X30"	Lin. FT.	750										750	
618000	TRAFFIC CONT. MANAGEMENT	LS							LS				LS	
618100	SPECIAL CITY TRAFFIC CONTROL REQUIREMENTS	LS							LS				LS	
621000	MOBILIZATION	LS	LS										LS	
702800	TRAFFIC CONTROL PLAN	LS							LS				LS	
704212	REFLECTIVE PLASTIC PAVEMENT STRIPE - 12"	Lin. FT.					240						240	
706200	METER PEDESTAL (SIGNAL)	EACH									20		20	
707820	REM AND RESET TRAFFIC SIGNAL AND MASTARM	EACH									1		1	
709020	RIGID ELECTRICAL CONDUIT, 2" DIA.	Lin. FT.									150		150	
709030	RIGID ELECTRICAL CONDUIT, 3" DIA.	Lin. FT.									200		200	1
710010	ELECTRICAL PULL BOX (LARGE)	EACH									6		6	
711005	MULTI CONDUCTOR CABLE 5	Lin. FT.									200		200	
711007	MULTI CONDUCTOR CABLE 7	Lin. FT.									200		200	
711020	MULTI CONDUCTOR CABLE 20	Lin. FT.									200		200	
711106	SINGLE CONDUCTOR 6	Lin. FT.									100		100	
711110	SINGLE CONDUCTOR 10	Lin. FT.									100		100	
711512	COMMUNICATION CABLE 12 PAIR	Lin. FT.									100		100	
711525	COMMUNICATION CABLE 25 PAIR	Lin. FT.									100		100	
712200	PEDESTRIAN SIGNAL-NEON	EACH									2		2	
713010	LOOP VEHICAL DETECTOR	EACH									68		68	
713020	PUSH BUTTON STATION	EACH									344		344	
713030	LOOP DETECTOR WIRE	Lin. FT.									740		740	
713300	DETECTOR SAW CUT	Lin. FT.									316		316	
713410	PHASE SELECTOR RACK, 1 CHANNEL	EACH									28		28	
713430	PHASE SELECTOR MODULE	EACH									46		46	
713511	OPTICAL DETECTOR 1 DIRECTION/1 CHANNEL	EACH									94		94	
713600	OPTICAL DETECTOR CABLE	Lin. FT.									17025		17025	
714000 A	TRAFFIC ACTUATED CONTROLLER-ECONOLITE	EACH									8		8	
714000 B	TRAFFIC ACTUATED CONTROLLER-MULTISONICS	EACH									30		30	
714100 A	SYSTEM MASTER-ECONOLITE	EACH									2		2	
714280 A	8 PHASE DOUBLE RING CONTROLLER CABINET-ECONOLITE	EACH									8		8	
714280 B	8 PHASE DOUBLE RING CONTROLLER CABINET-MULTISONICS	EACH									9		9	
801000	CONSTRUCTION STAKING BY THE CONTRACTOR	LS							LS				LS	

AS BUILT INFORMATION
CONTRACTOR DATE
WORK PERFORMED BY DATE
INSPECTORS DIRECTLY IN CHARGE DATE
FIELD SURVEYING BY DATE
PLOTTING VERIFICATION BY DATE
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. FIELD NOTES BY DATE

ENGINEER'S SEAL
CHARLES E. PLEMEL 12133 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
1	6-3-97	CONDUIT FOR FUTURE INTERCONNECT	

DESIGN DATE
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY

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Civil • Structural • Transportation
5801 OSUNA RD. NE – Suite 200
Albuquerque, NM 87109 – (505) 881-5357

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION

SUMMARY OF QUANTITIES

APPROVED OCT - 7 1996 DESIGN REVIEW COMMITTEE

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 1-4

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GENERAL NOTES

GENERAL NOTES

1. THE CONTRACTOR SHALL BE REQUIRED TO COMPLY WITH ALL PERTINENT CITY ORDINANCES, PARTICULARLY RELATED TO NOISE. THE ENVIRONMENTAL HEALTH DEPARTMENT MAY BE CONTACTED AT (505) 768-2600 FOR MORE INFORMATION.

2. DELETED.

3. EARTHWORK HAUL: THE EARTHWORK ON THIS PROJECT INCLUDING EXCAVATION, BORROW, EMBANKMENT, AND HAUL WILL BE CONSIDERED AS INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

4. PAVEMENT DROP-OFF POLICY: IF A PAVEMENT DROP-OFF IS CREATED DURING CONSTRUCTION, THE CONTRACTOR SHALL INITIATE PROTECTIVE ACTION IN ACCORDANCE WITH THE NMSHTD'S CURRENT DROP-OFF POLICY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

5. THE CONTRACTOR SHALL ADJUST CUT AND FILL SLOPES WHERE NECESSARY TO STAY WITHIN THE RIGHT-OF-WAY OR CONSTRUCTION EASEMENT LIMITS.

6. NO MATERIAL PITS HAVE BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION BORROW OR SURFACING MATERIAL FROM ANY SOURCE APPROVED BY THE ENGINEER.

7. THE CONSTRUCTION CLEAR ZONE FOR THIS PROJECT IS 15 FEET FROM THE EDGE OF THE DRIVING LANE. THE CONTRACTOR SHALL NOT STORE EQUIPMENT OR MATERIAL WITHIN THE CONSTRUCTION CLEAR ZONE UNLESS THE EQUIPMENT OR MATERIAL IS PROPERLY SHIELDED UTILIZING CURRENT SAFETY DESIGN AND INSTALLATION METHODS. THE SAFETY DESIGN FOR SHIELDING SHALL BE PROVIDED BY THE CONTRACTOR AND MUST BE APPROVED BY THE ENGINEER BEFORE IMPLEMENTING. THIS WORK, INCLUDING DESIGN, INSTALLATION AND REMOVAL OF THE SHIELDING, SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

8. DELETED.

9. THE CONTRACTOR SHALL TAKE PRECAUTIONS TO PROTECT HORIZONTAL AND VERTICAL CONTROL SURVEY MONUMENTS (MARK) FROM DAMAGE PRIOR TO INITIATING CONSTRUCTION. IF DURING THE COURSE OF CONSTRUCTION OPERATIONS, THE CONTRACTOR DISTURBS OR DESTROYS A MARK, THE CONTRACTOR WILL COMPENSATE THE CITY FOR THE COST OF REESTABLISHING A NEW MARK.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL REMOVALS REQUIRED TO COMPLETE THE PROJECT. ADDITIONAL REMOVALS NOT SHOWN ON THE PLANS WILL BE DESIGNATED BY THE ENGINEER. ALL REMOVALS WILL BE PAID UNDER THE APPLICABLE ITEMS AT THE CONTRACT UNIT PRICE.

11. SALVAGEABLE MATERIALS FROM THIS PROJECT ARE TO BE HAULED TO AND STOCKPILED AT ALBUQUERQUE CITY TRAFFIC ENGINEERING YARD, ON PINO RD. HAUL AND DELIVERY OF SALVAGED MATERIAL SHALL BE PERFORMED DURING NORMAL WORKING HOURS AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR UNDER ITEM #601000 REMOVALS OF STRUCTURES AND OBSTRUCTIONS. SEE SHEET 3-1 FOR ADDITIONAL REQUIREMENTS.

12. ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM REMOVAL OF STRUCTURES AND OBSTRUCTIONS, ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE DECIDED UPON AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER IN WRITING OF THE DETAILS OF DISPOSAL OPERATIONS. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ETC., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES OR ARCHAEOLOGICAL RESOURCES. AN ARCHAEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BE OBTAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED.

13. CONTRACTOR SHALL BE RESPONSIBLE FOR ACQUIRING ALL PERMITS NECESSARY FOR CONSTRUCTION.

14. THE CONTRACTOR SHALL BE REQUIRED TO CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS AND/OR RIGHT-OF-WAY LIMITS. PARKING OF PRIVATE VEHICLES SHALL NOT BE ALLOWED ALONG CONSTRUCTION AREA THROUGHOUT CONSTRUCTION LIMITS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROHIBIT CONSTRUCTION RELATED VEHICLES AND EQUIPMENT FROM DRIVING UPON, ACCESSING OR TURNING ON PRIVATE PROPERTY ADJACENT TO PROJECT WORK AREAS.

15. ALL NEW SIGNS AND CODING WILL BE IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS CURRENT EDITION, PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION.

16. EXACT LOCATION OF NEW SIGNAL MASTARMS, METER PEDESTAL AND CONTROLLER FOUNDATIONS ARE TO BE DETERMINED IN THE FIELD TO AVOID CONFLICTS WITH EXISTING UTILITIES. COORDINATE WITH CITY TRAFFIC ENGINEERS.

CONTINUATION OF GENERAL NOTES

17. THE CONTRACTOR SHALL BE THE RESPONSIBLE PARTY FOR THE IMPLEMENTATION AND MAINTENANCE OF ALL TRAFFIC CONTROL PROCEDURES, DEVICES AND MATERIALS. THE CONTRACTOR SHALL HAVE PERSONNEL AVAILABLE 24 HOURS PER DAY, 7 DAYS PER WEEK TO INSPECT AND MAINTAIN DETOURS AND TRAFFIC CONTROL DEVICES AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE PAID FOR UNDER ITEM 618000.

18. INGRESS AND EGRESS: THE CONTRACTOR SHALL PROVIDE INGRESS AND EGRESS TO LOCAL BUSINESSES AND RESIDENCES FOR THE DURATION OF THE PROJECT. THE CONTRACTOR SHALL ADVISE OF AND SCHEDULE ACCESS CLOSURES AT LEAST 24 HOURS IN ADVANCE, WITH PROPERTY OWNERS AND THE PROJECT MANAGER.

19. MAINTENANCE OF AS-BUILT PLANS: THE CONTRACTOR SHALL MAINTAIN AN UP-TO-DATE SET OF AS-BUILT PLANS FOR THE PROJECT. THESE PLANS SHALL BE KEPT CURRENT, WITHIN TWO WEEKS, AT ALL TIMES AND SHALL BE SUBJECT TO REVIEW BY THE PROJECT MANAGER THROUGHOUT THE PROJECT AND WILL BE REVIEWED BY THE PROJECT MANAGER FOR ACCURACY AND COMPLETENESS AT LEAST ONCE EVERY 30 DAYS. THE FINAL AS-BUILT PLANS SHALL BE SUBMITTED TO THE PROJECT MANAGER PRIOR TO FINAL PAYMENT.

20. UTILITY LOCATIONS: THE LOCATION OF THE UTILITIES THAT ARE SHOWN ON THE PLANS HAVE BEEN OBTAINED FROM "AS-BUILT" DRAWINGS AND FROM FIELD OBSERVATIONS WHICH ARE APPROXIMATE ONLY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATIONS PRIOR TO STARTING WORK. THE CONTRACTOR WILL BE RESPONSIBLE FOR EXPLORATORY TRENCHING. IF NECESSARY, TO MORE SPECIFICALLY LOCATE UTILITY LINES, TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION. THE CONTRACTOR SHALL CONTACT ONE CALL SYSTEM INC. (TELEPHONE NUMBER 260-1990) FOR LOCATING OF EXISTING UTILITIES. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

21. DUST CONTROL: THE CONTRACTOR SHALL USE WATER TO CONTROL DUST DURING CONSTRUCTION. THERE SHALL BE NO DIRECT COMPENSATION FOR THIS WORK. THIS WORK WILL TAKE PRECEDENCE OVER ANY OTHER CONSTRUCTION OPERATION.

22. SITES: THE CONTRACTOR SHALL OBTAIN NEEDED CAMPSITES, STORAGE SITES, STOCKPILE SITES, AND OFFICE SITES AT LOCATIONS OUTSIDE THE LIMITS OF CITY RIGHT-OF-WAY.

23. NEWS MEDIA: THROUGHOUT THE LIFE OF THIS PROJECT, THE CONTRACTOR SHALL KEEP THE LOCAL NEWS MEDIA INFORMED OF LANE CLOSURES WHICH WILL RESTRICT THE NORMAL FLOW OF TRAFFIC. THERE WILL BE NO DIRECT MEASUREMENT OR PAYMENT MADE FOR THESE ADVISORIES.

24. PMBP OPERATIONS: THE CONTRACTOR SHALL SUBMIT A PROPOSED PLAN AND MIX DESIGNS FOR PMBP OPERATIONS FOR MINOR PATCHWORK, TO THE PROJECT MANAGER FOR REVIEW AND APPROVAL, AT LEAST TWO (2) WEEKS PRIOR TO COMMENCING PMBP OPERATIONS. PMBP OPERATIONS SHALL NOT BEGIN UNTIL THE PLAN IS APPROVED BY THE PROJECT MANAGER.

25. EXISTING PULL BOXES, VALVE BOXES, AND MANHOLE COVERS LOCATED WITHIN THE AREA OF NEW WHEELCHAIR RAMPS OR SIDEWALK SHALL BE ADJUSTED TO MATCH GRADE OF NEW WHEELCHAIR RAMPS OR SIDEWALK. EXISTING CONDUITS WILL BE ADJUSTED ACCORDINGLY. THIS WORK SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR.

26. PROJECT MEETINGS SHALL BE HELD IN THE FIELD PRIOR TO THE START OF CONSTRUCTION. APPROXIMATELY FIVE (5) INTERSECTIONS SHALL BE REVIEWED AT EACH MEETING. PAYMENT FOR THIS WORK SHALL BE INCLUDED IN THE CONTRACT PRICE FOR 801000 CONSTRUCTION STAKING BY CONTRACTOR. THE PROJECT MANAGER, TRAFFIC ENGINEERING PERSONNEL, AND THE CONTRACTOR SHALL DETERMINE THE FOLLOWING:

    A. THE EXACT ROUTING OF CABLE THROUGH NEW OR EXISTING CONDUITS AND IDENTIFICATION OF EXISTING CONDUITS TO BE USED, REPAIRED, OR REPLACED.

    B. LOCATION OF NEW SIGNAL EQUIPMENT INCLUDING CONTROLLER CABINETS AND PULL BOXES.

    C. WHEELCHAIR RAMP INSTALLATION INCLUDING EXACT LOCATION AND TYPE.

    D. PULL BOX, VALVE BOX, OR MANHOLE COVER ADJUSTMENTS AND/OR REPLACEMENT.

    E. TRAFFIC CONTROL STRATEGIES AND ANY CHANGES OR MODIFICATION TO TYPICAL TRAFFIC CONTROL PLANS WHICH ARE REQUIRED TO PERFORM THE PROPOSED CONSTRUCTION SAFELY.

CONTINUATION OF GENERAL NOTES

27. MEASUREMENT AND PAYMENT FOR ITEM 608004 – CONCRETE SIDEWALK – 4" WILL BE MADE ON THE FOLLOWING BASIS:

    A. SIDEWALK REPLACEMENT TO THE NEAREST JOINT ADJACENT TO NEW PULL BOXES, TRAFFIC MANHOLES, AND EQUIPMENT FOUNDATIONS WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX, MANHOLE, OR FOUNDATION.

    B. SIDEWALK REPLACEMENT FOR THE INSTALLATION OF NEW RIGID ELECTRICAL CONDUITS WILL BE CONSIDERED INCIDENTAL TO THE CONDUIT.

    C. SIDEWALK REPLACEMENT TO THE NEAREST JOINT FOR NEW WHEELCHAIR RAMPS WILL BE MEASURED AND PAID BY THE SQUARE YARD.

28. BORING, DRILLING, PUSHING, TRENCHING, AND PATCHING, INCLUDING REMOVAL AND REPLACEMENT OF ASPHALT AND CONCRETE PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, CURB AND GUTTER, AND LANDSCAPING (INCLUDING SPRINKLERS) FOR THE INSTALLATION OF CONDUITS, PULL BOXES, TRAFFIC MANHOLES, AND EQUIPMENT FOUNDATIONS SHALL BE CONSIDERED INCIDENTAL TO THE CORRESPONDING CONTRACT ITEMS FOR CONDUITS, PULL BOXES, AND FOUNDATIONS.

29. ALL CONSTRUCTION ACTIVITIES INCLUDING, BUT NOT LIMITED TO NEW CONDUITS, PULL BOXES, CONTROLLER CABINETS, RELOCATED MASTARM AND PEDESTAL POLES OR OTHER EQUIPMENT SHALL BE LOCATED WITHIN THE EXISTING CITY RIGHT-OF-WAY.

30. THE CONTRACTOR SHALL ARRANGE TO HAVE AN OFF-DUTY POLICE OFFICER PRESENT TO DIRECT TRAFFIC WHENEVER POWER TO SIGNALS IS TURNED OFF. REIMBURSEMENT FOR THE OFF-DUTY POLICE OFFICER SHALL BE CONSIDERED INCIDENTAL TO THE INSTALLATION OF NEW SIGNAL CONTROLLERS.

31. ALL CONCRETE TO BE USED FOR THIS PROJECT SHALL CONFORM TO THE CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, EDITION 1986, INCLUDING UPDATES ONE THROUGH SIX. PAID UNDER ITEM # 511000.

32. FOR THE PURPOSES OF THIS CONTRACT, THE TERMS "PROJECT MANAGER" AND "ENGINEER" ARE TO BE SYNONYMOUS.

33. THE CONTRACTOR SHALL COMPLY WITH THE CITY OF ALBUQUERQUE'S "ORANGE BARREL POLICY" PW-021, DATED AUGUST 1, 1994. SEE SHEET 4-1 FOR REQUIREMENTS. ALL COSTS TO CONFORM TO THIS POLICY SHALL BE INCLUDED IN THE CONTRACTOR'S LUMP SUM BID FOR ITEM 618100 – SPECIAL CITY TRAFFIC CONTROL REQUIREMENTS.

34. MINIMUM TESTING REQUIREMENTS SHALL CONFORM TO THE CITY OF ALBUQUERQUE GUIDELINES.

35. ERADICATION OF CROSSWALK MARKINGS SHALL BE PERFORMED AS DIRECTED BY THE PROJECT MANAGER. PAYMENT SHALL BE UNDER ITEM # 601000.

AS BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY
MICRO-FILM INFORMATION — DATE
RECORDED BY
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY — DATE
NO.

ENGINEER'S SEAL
CHRIS E. BACA — 12333 — NEW MEXICO — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN — DATE
DESIGNED BY RLB — DATE
DRAWN BY DS, DS — DATE
CHECKED BY CP, RR — DATE

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SYSTEM EXPANSION
PHASE THREE A

GENERAL NOTES & INCIDENTAL ITEMS

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.

APPROVED
OCT - 7 1996
DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 — MAP NO. — SHEET 1-5

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THE FOLLOWING ITEMS REQUIRE SPECIAL ATTENTION:

1. EARTH DISTURBANCE AND REMOVAL OF EXISTING VEGETATION TO BE CONFINED TO CONSTRUCTION LIMITS. CONTROL OF SEDIMENT AND REVEGETATION OF ALL DISTURBED AREAS SHALL CONFORM TO THE EROSION AND SEDIMENT CONTROL PLANS.

BITUMINOUS MATERIAL WASTE DISPOSAL

2. THE CONTRACTOR SHALL PROPERLY HANDLE AND DISPOSE OF ALL ASPHALT PAVEMENT MATERIAL REMOVED ON THE PROJECT BY HAULING TO AN APPROVED LANDFILL IN ACCORDANCE WITH THE REGULATIONS OF THE NEW MEXICO SOLID WASTE ACT. PAYMENT FOR THIS WORK WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR ITEM 601000

WASTE DISPOSAL REQUIREMENTS

3. ITEMS DESIGNATED FOR REMOVAL WITHOUT SALVAGE, UNSUITABLE CONSTRUCTION MATERIALS AND DEBRIS FROM CLEARING AND GRUBBING, ARE TO BE PLACED IN AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE SECURED AND COORDINATED BY THE CONTRACTOR, WITH THE APPROPRIATE REGULATORY AGENCIES. THE CONTRACTOR SHALL NOTIFY THE ENGINEER, IN WRITING, OF THE DETAILS OF THE DISPOSAL OPERATIONS. BORROW MATERIAL, ROCK WASTE, VEGETATIVE DEBRIS, ETC., SHALL NOT BE PLACED IN WETLAND AREAS OR AREAS WHICH MAY IMPACT ENDANGERED SPECIES FOR ARCHAEOLOGICAL RESOURCES. AN ARCHAEOLOGICAL SURVEY AND ENVIRONMENTAL CLEARANCE SHALL BE OBTAINED BY THE CONTRACTOR BEFORE DISPOSAL SITES ARE ACCEPTED.

HAZARDOUS SPILLS REQUIREMENTS

4. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF SPILLS ASSOCIATED WITH PROJECT CONSTRUCTION AND SHALL REPORT AND RESPOND TO SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC AND CORROSIVE SUBSTANCES, AND OTHER MATERIALS WHICH MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPORTING PAST SPILLS ENCOUNTERED DURING CONSTRUCTION AND OF CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION. REPORTS SHALL BE MADE IMMEDIATELY TO THE OWNER OR ENGINEER.

WATER QUALITY

5. ALL WORK IN THE VICINITY OF LIVE STREAMS, WATER IMPOUNDMENTS, WETLANDS OR IRRIGATION SUPPLIES SHALL BE EFFECTED IN SUCH A MANNER AS TO MINIMIZE VEGETATION REMOVAL, SOIL DISTURBANCE AND EROSION. CROSSINGS OF LIVE STREAMS WITH HEAVY EQUIPMENT SHALL BE MINIMIZED, AS DETERMINED BY THE CONSTRUCTION PROJECT MANAGER. EQUIPMENT REFUELING, MAINTENANCE AND CEMENT DUMPING IN THE VICINITY OF WATER COURSES ARE STRICTLY PROHIBITED AND SHALL BE PERFORMED IN PROPER CONTAINMENT AREAS.

REVEGETATION AND EROSION CONTROL

6. ~~THE CONTRACTOR SHALL STRICTLY ADHERE TO THE REVEGETATION AND EROSION CONTROL PLAN AS SHOWN IN THIS PLAN SET. ALL DEVIATIONS FROM THIS PLAN MUST HAVE PRIOR APPROVAL OF THE ENGINEER.~~ * THE USE OF EROSION CONTROL MEASURES SHALL BE INCLUDED IN ACCORDANCE WITH THE NPDES GENERAL PERMIT COMPLIANCE. THE CONTRACTOR IS RESPONSIBLE FOR COMPLIANCE WITH THE NEW MEXICO WATER QUALITY ACT AND APPLICABLE CLEAN WATER ACT PERMITS AND REGULATIONS.

7. THE CONTRACTOR SHALL COMPLY WITH ALL REGULATIONS OF THE U.S. ENVIRONMENTAL PROTECTION AGENCY, INCLUDING THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEMS (NPDES) PROGRAM. FOR INFORMATION, CONTACT MR. LOREN MEINZ – C.O.A. PUBLIC WORKS, HYDROLOGY DEPARTMENT, AT 768–3654.

8. THE AIR POLLUTION CONTROL REGULATION OF THE ALBUQUERQUE–BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMIT EMISSIONS OF PARTICULATE MATTER AND THE USE OF CUT BACK ASPHALT. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO CLARIFY THESE RESTRICTIONS WITH THE ENVIRONMENTAL HEALTH DEPARTMENT PRIOR TO SUBMITTAL OF BIDS TO AVOID CONFLICT WITH THE REGULATIONS. CALL THE ENVIRONMENTAL HEALTH DEPARTMENT AT 768–2600.

* NO REVEGETATION AND EROSION CONTROLL PLANS ARE PROVIDED IN THIS PLANSET.

CONSTRUCTION MONITORING FOR PETROLEUM–IMPACTED SOILS

9. THE FOLLOWING PROCEDURES SHALL BE FOLLOWED FOR FOUR (4) INTERSECTIONS PREVIOUSLY IDENTIFIED AND ASSESSED:

   1) WYOMING AND COMANCHE
   2) WYOMING AND CANDELARIA
   3) JUAN TABO AND CANDELARIA
   4) EUBANK AND INDIAN SCHOOL

IN ORDER TO DETERMINE WHETHER PLANNED EXCAVATION AREAS HAVE BEEN IMPACTED BY PETROLEUM HYDROCARBONS FROM NEIGHBORING SITES, THE CITY OR THEIR DESIGNATED ENVIRONMENTAL CONSULTANT SHALL PERFORM TARGETED CONSTRUCTION MONITORING. CITY PERSONNEL OR THE ENVIRONMENTAL CONSULTANT PERFORMING CONSTRUCTION MONITORING SHALL: 1) BE FAMILIAR WITH NEW MEXICO ENVIRONMENT DEPARTMENT (NMED) UNDERGROUND STORAGE TANK BUREAU (USTB) REGULATIONS AND REQUIREMENTS, 2) BE FAMILIAR WITH THE OPERATION OF PID OR FID EQUIPMENT, AND 3) BE TRAINED AS A HAZARDOUS MATERIALS SITE WORKER, HAVING SUCCESSFULLY COMPLETED AT LEAST THE 40–HOUR COURSE MANDATED BY OSHA REGULATION 1910.120. THE CITY OR THE ENVIRONMENTAL CONSULTANT SHALL USE A PHOTO–IONIZATION DETECTOR (PID) OR FLAME IONIZATION DETECTOR (FID), CALIBRATED TO 100 PPM ISOBUTYLENE, TO SCREEN SOIL SAMPLES FOR HYDROCARBON IMPACTS AT THE ABOVE–REFERENCED INTERSECTIONS. THE FIELD SCREENING METHODOLOGY SHALL BE THE JAR HEADSPACE METHOD, CODIFIED IN THE NMED USTB REGULATIONS (USTR) APPENDIX C.

IF IMPACTED SOILS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL CEASE WORK IN THE AREA OF THE IDENTIFIED IMPACT AND NOTIFY THE ENGINEER. LIMITED CLEANUP OF THE IMPACTED AREA WILL BE REQUIRED PRIOR TO CONTINUANCE OF CONSTRUCTION ACTIVITIES, AND SHALL BE DIRECTED BY THE ENGINEER WITH CONCURRENCE FROM THE CITY AND THE ENVIRONMENTAL CONSULTANT. IF FIELD SCREENING INDICATES IMPACTS ABOVE REGULATORY LEVELS (100 PPM BY PID OR FID), IMPACTED SOILS WILL BE SEGREGATED, STAGED ON IMPERVIOUS PLASTIC LINERS OR 55 GALLON DOT–APPROVED DRUMS, AND MOVED TO A STORAGE SITE FOR LABORATORY ANALYSIS AND ULTIMATELY, APPROPRIATE DISPOSAL. DISPOSAL OF IMPACTED SOILS WILL BE DETERMINED FOLLOWING LABORATORY ANALYSIS, BUT WILL PROBABLY INVOLVE DISPOSAL AT A NMED–APPROVED LANDFARM. ALL WASTE MANIFESTS SHALL BE SIGNED BY EITHER A REPRESENTATIVE OF THE CITY, OR THE ENVIRONMENTAL CONSULTANT WITH EXPRESSED WRITTEN CONSENT OF THE CITY.

COSTS FOR HANDLING AND DISPOSING OF IMPACTED SOILS WILL BE APPROVED AS NEEDED BY THE CITY. NO EXPENDITURES FOR ASSESSMENT, CLEANUP, OR DISPOSAL WILL BE INCURRED WITHOUT PRIOR APPROVAL BY THE CITY.

W.L. Gaylor 7-16-96
ENVIRONMENTAL PROGRAM MANAGER

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 OSUNA RD. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–5357

AS BUILT INFORMATION
CONTRACTOR DATE
WORK STARTED DATE
WORK COMPLETED DATE
INSPECTOR
FIELD VERIFICATION BY DATE
DRAWINGS PREPARED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
LOUIS E. DUNCAN
NEW MEXICO 12133
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN DATE
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC CONPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
ENVIRONMENTAL GENERAL NOTES

APPROVED
DESIGN REVIEW COMMITTEE
OCT – 7 1996
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL MO./DAY/YR. MO./DAY/YR.

DRAWING NO. 5361.91 MAP NO. SHEET 1–6

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INCIDENTAL ITEMS **

1. EARTHWORK INCLUDING EXCAVATION, BORROW, HAUL AND EMBANKMENT. SEE GENERAL NOTE 3 ON SHEET 1–5.
2. PROTECTIVE ACTION ASSOCIATED WITH NMSHTD DROP OFF POLICY. SEE GENERAL NOTE 4 ON SHEET 1–5.
3. DESIGN, MATERIALS, INSTALLATION AND REMOVAL OF SAFETY BARRIER FOR SHIELDING EQUIPMENT OR MATERIAL. SEE GENERAL NOTE 7 ON SHEET 1–5.
4. HAULING OF MATERIAL TO BE DISPOSED OR SALVAGED. SEE GENERAL NOTE 10, 11 AND 12 ON SHEET 1–5.
5. MAINTENANCE OF "AS–BUILT" PLANS. SEE GENERAL NOTE 19 ON SHEET 1–5.
6. REMOVAL, SALVAGE AND TRANSPORTATION OF EXISTING SIGNAL EQUIPMENT TO THE CITY TRAFFIC ENGINEERING OPERATIONS YARD. SEE GENERAL NOTE 11 ON SHEET 1–5 AND TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS NOTE 3 ON SHEET 3–1.
7. CONTRACTOR COORDINATION WITH UTILITIES AND LOCATION OF UTILITY LINES INCLUDING EXPLORATORY TRENCHING. SEE GENERAL NOTE 20 ON SHEET 1–5.
8. APPRISING PUBLIC THROUGH THE LOCAL NEWS MEDIA. SEE GENERAL NOTE 23 ON SHEET 1–5.
9. IN–KIND REPLACEMENT OF PMBP SURFACING INCLUDING BASE COURSE AND SUBGRADE PREPARATION FOR WHEELCHAIR RAMP. PMBP PLAN AND MIX DESIGN. SEE GENERAL NOTE 24 ON SHEET 1–5.
10. ADJUSTMENTS OF MANHOLES AND PULL BOXES TO GRADE. SEE GENERAL NOT 25 ON SHEET 1–5.
11. BORING, DRILLING, PUSHING, TRENCHING, AND PATCHING INCLUDING SAWCUTTING, REMOVAL, AND REPLACEMENT OF ASPHALT AND CONCRETE PAVEMENT, SIDEWALKS, DRIVEPADS, VALLEY GUTTERS, WHEELCHAIR RAMPS, CURB & GUTTER AND LANDSCAPING (INCLUDING SPRINKLERS). FOR INSTALLATION OF CONDUITS, PULL BOXES, TRAFFIC MANHOLES, AND EQUIPMENT FOUNDATIONS, SEE GENERAL NOTES 27, 28, AND 29 ON SHEET 1–5.
12. OFF–DUTY POLICE OFFICER FOR TRAFFIC CONTROL. SEE GENERAL NOTE 30 ON SHEET 1–5.
13. SUBMITTAL OF PROTOTYPE TRAFFIC SIGNAL CONTROLLER CABINETS FOR APPROVAL AND MODIFICATIONS OF CABINETS IF REQUIRED. SEE NOTE 17 ON SHEET 3–1.
14. MINOR CONTROLLER CABINET GROUNDING IMPROVEMENT. SEE NOTE 18 ON SHEET 3–1.
15. SPLICE BARS, LOAD SWITCHES AND CONFLICT MONITORS FOR TRAFFIC CONTROL CABINETS. SEE TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS. NOTE 1 ON SHEET 3–1.
16. EQUIPMENT MANUFACTURER'S FIELD ASSISTANCE, SET–UP, TESTING, AND TRAINING FOR THE EMERGENCY VEHICLE PRE–EMPTION EQUIPMENT. SEE TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS NOTE 2 ON SHEET 3–1.
17. CABLE TESTING AND DIAGRAMS.
18. TEST EMITTER FOR CITY TRAFFIC ENGINEERING.
19. METER PEDESTAL CONCRETE FOUNDATIONS INCLUDING EXCAVATION AND BACKFILL, CONCRETE, AND ANCHOR BOLTS COMPLETE IN PLACE SEE GENERAL NOTE 11 ON SHEET 3–15.

**ITEMS LISTED ABOVE ARE ONLY A GENERAL DESCRIPTION OF THE REQUIRED WORK AND MATERIALS, AND MAY NOT BE COMPLETE. THIS LIST DOES NOT INCLUDE ANY INCIDENTAL WORK OR MATERIALS REQUIRED BY THE SPECIAL PROVISIONS. SERIALS (STANDARD DETAILS), SUPPLEMENTAL SPECIFICATIONS, OR THE STANDARD SPECIFICATIONS.

TECHNICAL SPECIAL PROVISIONS

*FOR DIVISION 100 – GENERAL PROVISIONS (6/1/95)

*FOR CITY OF ALBUQUERQUE TRAFFIC CONTROL REQUIREMENTS. SECTION 618 (7–3–96)

*FOR SECTION 702A – TRAFFIC CONTROL PLAN (3/28/95)

*MODIFYING SECTION 714 – TRAFFIC SIGNAL CONTROLLERS (7/3/95)

*THESE SPECIAL PROVISIONS WERE DEVELOPED SPECIFICALLY FOR THIS PROJECT AND SUPERCEDE OTHER STANDARD SPECIAL PROVISIONS AND SUPPLEMENTAL SPECIFICATIONS.

SUPPLEMENTAL SPECIFICATON

SECTION 101 – PORTLAND CEMENT CONCRETE

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 OSUNA RD. NE • Suite 200
Albuquerque, NM 87109 – (505) 881–5357

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
AS-BUILTED BY
ACCEPTANCE BY — DATE
FINAL INSPECTION BY
CERTIFICATION BY — DATE
CHANGES BY
MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

ENGINEER'S SEAL
CHRISTOPHER E. BLAIR — NEW MEXICO — 12133 — REGISTERED PROFESSIONAL ENGINEER — 10-7-96

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
SPECIAL PROVISIONS,SUPPLEMENTAL,SPEC AND INCIDENTAL ITEMS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR. | MO./DAY/YR.
APPROVED — OCT – 7 1996 — DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 | MAP NO. | SHEET 1–7

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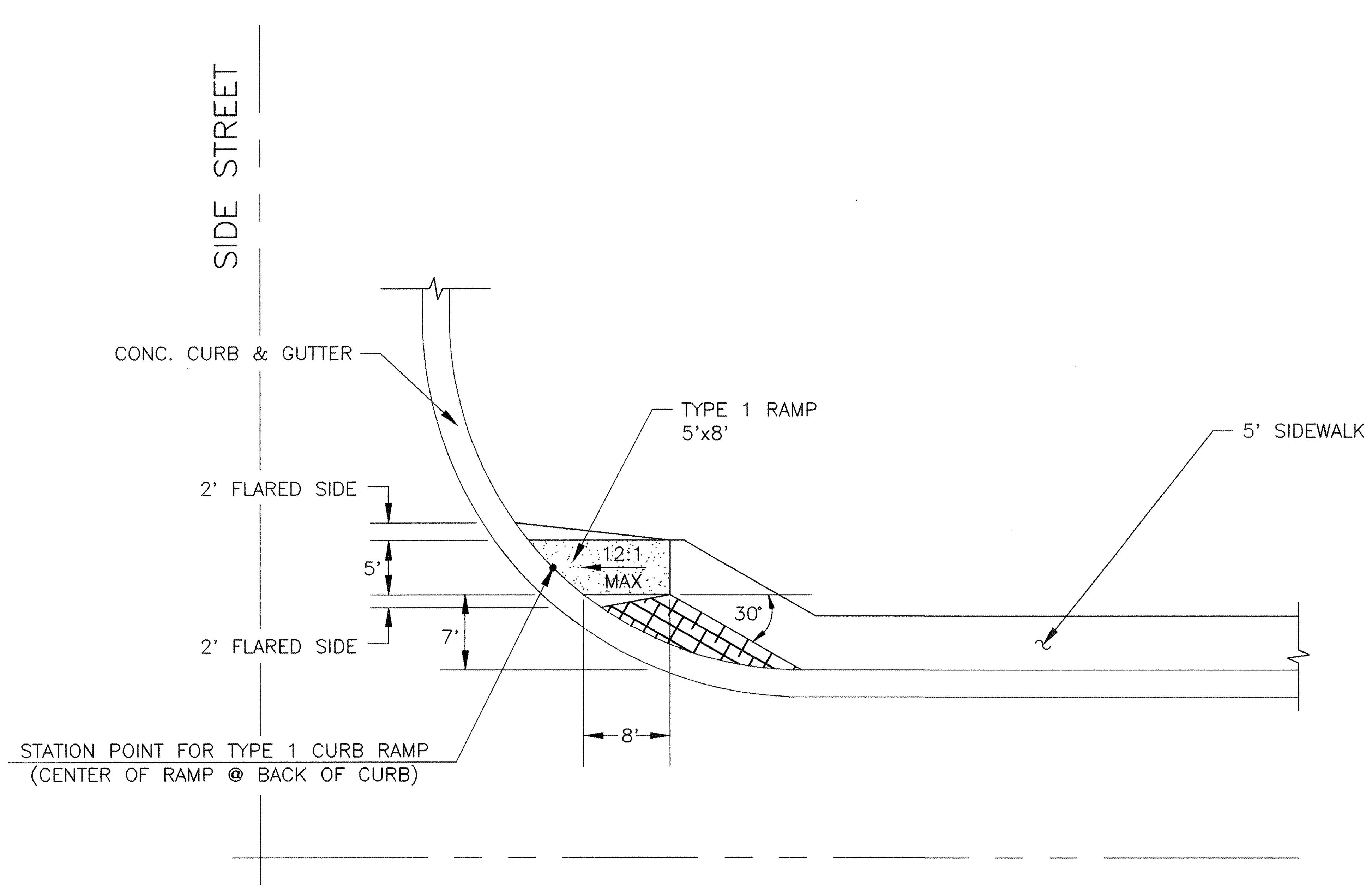
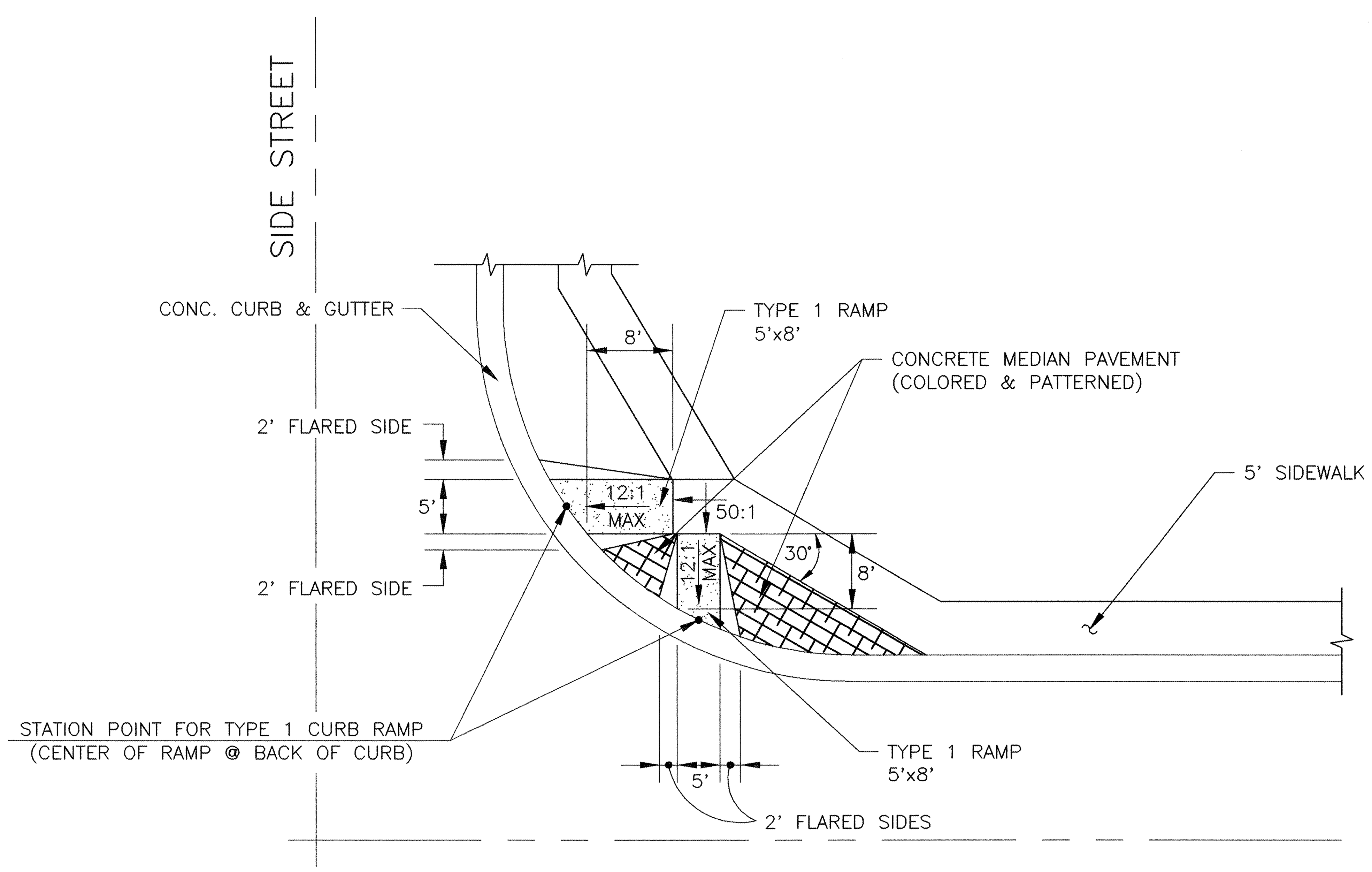


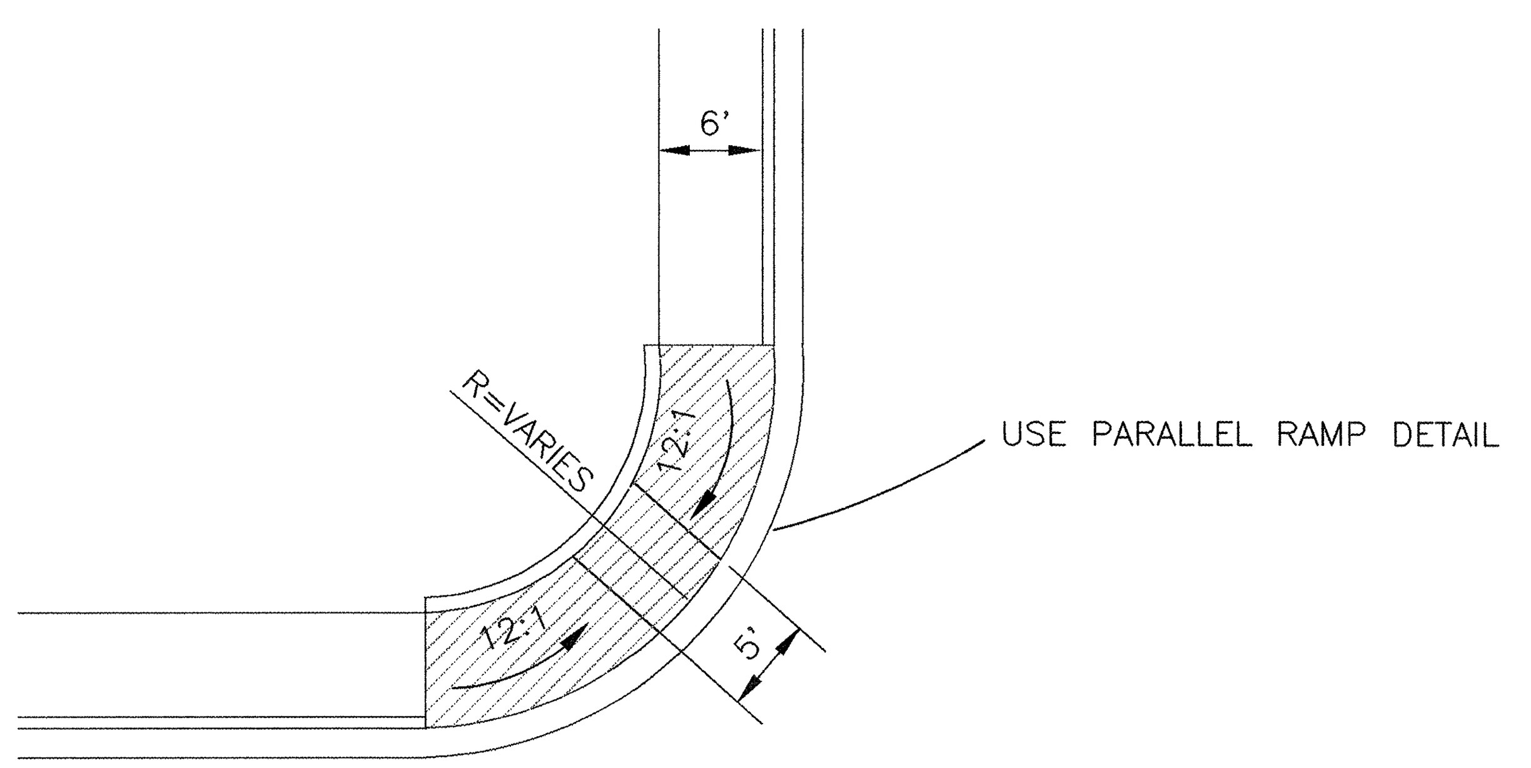
CURB RAMP TYPE A1

TYPICAL SINGLE RAMP INSTALLATION



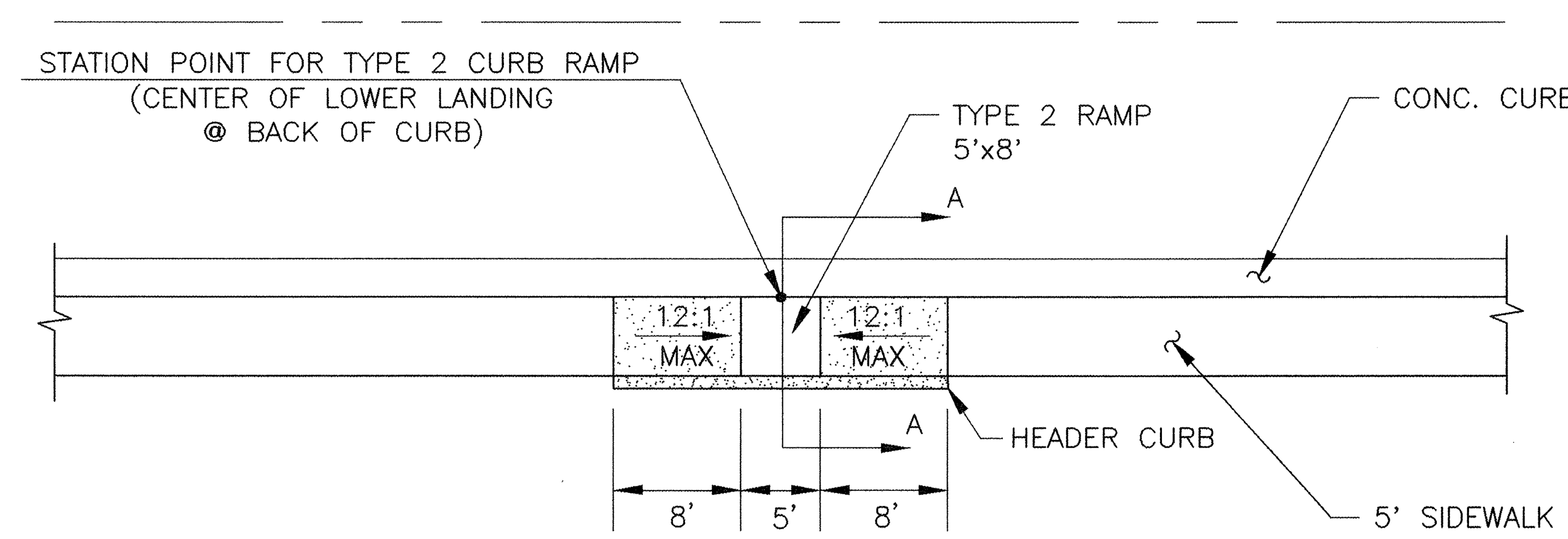
CURB RAMP TYPE A2

TYPICAL DOUBLE RAMP INSTALLATION



CURB RAMP TYPE A3

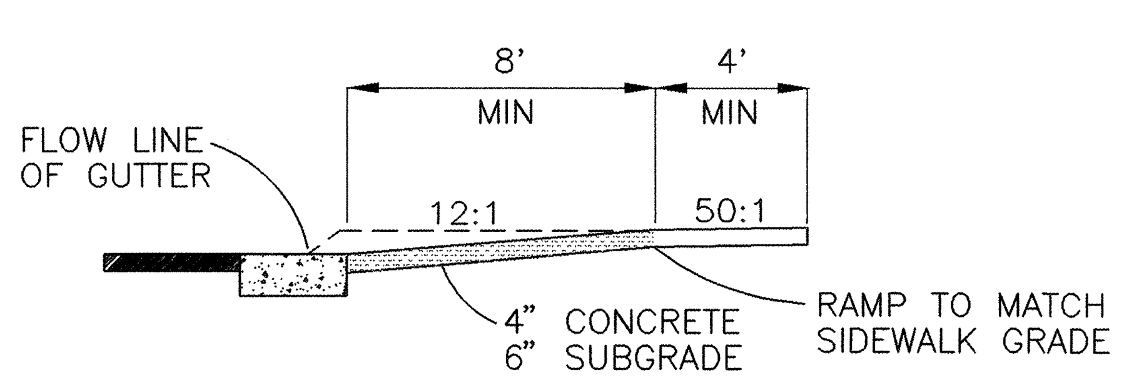
RESTRICTED RIGHT OF WAY INSTALLATION



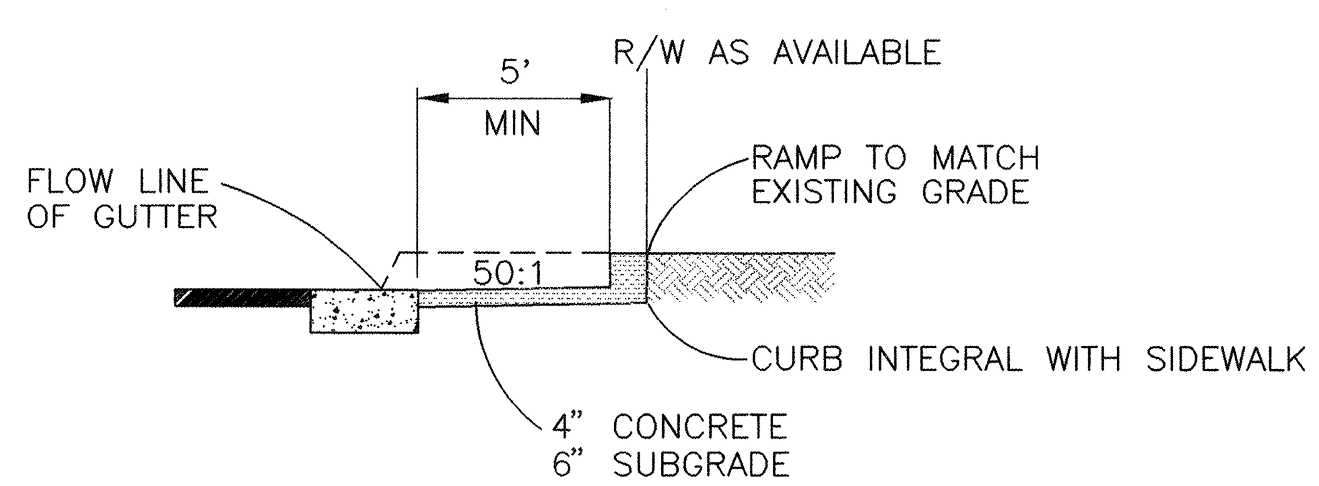
CURB RAMP TYPE B

TYPICAL PARALLEL RAMP INSTALLATION

FOR INFORMATION ONLY



PREPENDICULAR RAMP



PARALLEL RAMP

SECTION A–A

NOTES:

1. CURB RAMPS ARE TO BE LOCATED AT CROSSWALK AREAS AS DESIGNATED ON THE PLAN OR AS DIRECTED BY THE ENGINEER.
2. SURFACE TEXTURE OF CURB RAMP SHALL BE OBTAINED BY HEAVY BROOMING. TRANSVERSE TO THE SLOPE OF THE RAMP.
3. SLOPES SHALL BE UNIFORM WITH NO ABRUPT CHANGES IN GRADES. NORMAL GUTTER LINE PROFILE MAINTAINED THROUGH THE AREA OF THE RAMP.
4. EXISTING CROSSWALKS AND STOP BARS ARE TO BE REMOVED AND REPLACED ONLY AS DIRECTED BY THE PROJECT MANAGER.

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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SYSTEM EXPANSION
PHASE THREE A

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT - 7 1996 DESIGN REVIEW COMMITTEE			

DRAWING NO.	5361.91	MAP NO.	SHEET 2–1

AS BUILT INFORMATION: CONTRACTOR, WORK STARTED, INSPECTOR'S ACCEPTANCE BY, FIELD VERIFICATION BY, DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION: RECORDED BY, NO. — DATE

BENCH MARKS

SURVEY INFORMATION — FIELD NOTES: NO. | BY | DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY

DESIGN: DESIGNED BY RLB DATE; DRAWN BY DS, DS DATE; CHECKED BY CP, RR DATE

DESIGNED BY ______ CHECKED BY ______ DRAWN BY ______

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TRAFFIC SIGNAL NOTES

1. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, AND THE STANDARDS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS.

2. LOCATIONS OF CONDUITS, FOUNDATIONS, CONTROL CABINETS, POLES, PULL BOXES, MANHOLES, AND SPLICE CABINETS SHOWN ON THE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE AMERICAN WITH DISABILITIES ACT (ADA). THE CONTRACTOR SHALL MEET WITH THE CITY TRAFFIC ENGINEERING OPERATIONS PERSONNEL IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING THE WORK. ALL SUCH EQUIPMENT SHALL BE INSTALLED WITHIN THE RIGHT-OF-WAY.

3. THE CONTRACTOR IS WARNED THAT EXISTING CONDUITS MAY CONTAIN AC POWER AND CAUTION SHALL BE EXERCISED IN INTERCEPTING OR INSTALLING CABLE IN EXISTING CONDUIT.

4. THE CONTRACTOR SHALL BORE, DRILL, OR PUSH WHEN CROSSING EXISTING PAVEMENTS AND ANY DRIVEWAYS FOR SIDE STREET CROSSINGS. BEFORE CONDUIT CAN BE BORED, DRILLED, OR PUSHED THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES. THE CONTRACTOR SHALL LOCATE AND EXPOSE GAS LINES WHICH CROSS ANY PROPOSED BORES. THESE EXCAVATIONS SHALL REMAIN OPEN UNTIL AFTER THE BORE IS COMPLETE. CONTRACTOR SHALL REMOVE AND REPLACE IN-KIND ANY SIDEWALK OR PAVEMENT REQUIRED TO EXPOSE SUCH LINES. THE CONTRACTOR MAY CUT, TRENCH, AND REPLACE EXISTING PAVEMENT ONLY WHEN APPROVED BY THE PROJECT MANAGER.

5. SPLICING OF COMMUNICATIONS CABLE WILL NOT BE PERMITTED IN PULL BOXES, SPLICING OF COMMUNICATIONS CABLE (CONNECTIONS) WILL BE PERMITTED ONLY AT SPLICE CABINETS OR CONTROLLER CABINETS WITH SPLICE BARS. COLOR CODING FOR INDIVIDUAL CONTROLLERS WILL BE FURNISHED TO THE CONTRACTOR BY THE CITY. ALL COMMUNICATION CABLES SHALL BE TERMINATED BY THE CONTRACTOR. SPLICING FOR TRAFFIC SIGNALS MCC WILL BE PERMITTED IN LARGE PULL BOXES INCLUDING LARGE MEDIAN PULL BOXES.

6. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED POLYMER MORTAR HEAVY DUTY COVERS, CONCRETE COVERS, STEEL COVERS, AND CONCRETE PULL BOXES WILL NOT BE ACCEPTABLE.

7. THE CONTRACTOR SHALL NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS (857-8000) TWO WORKING DAYS IN ADVANCE OF ANY ANTICIPATED WORK ON SIGNALS. TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL ASSIST THE CONTRACTOR IN FIELD LOCATION OF EQUIPMENT, COLOR CODING OF WIRING, AND MUST BE PRESENT WHEN SIGNALS ARE SHUT OFF OR TURNED ON. THE CONTRACTOR SHALL ALSO NOTIFY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS EACH TIME A TRAFFIC SIGNAL CONTROL CABINET DOOR IS OPENED.

8. THE CONTRACTOR SHALL NOTIFY PUBLIC SERVICE COMPANY 30 DAYS IN ADVANCE OF ANTICIPATED POWER SERVICE CONNECTIONS. THE CONTRACTOR SHALL COORDINATE WITH PUBLIC SERVICE COMPANY TO ESTABLISH ELECTRICAL SERVICE IN THE CITY'S NAME.

9. THE CONTRACTOR SHALL REMOVE ALL CONFLICTING SIGNING AND DELIVER TO THE CITY YARDS WHEN TRAFFIC SIGNALS ARE PUT INTO OPERATION.

10. LIVE UNUSED CONDUCTORS WILL NOT BE ALLOWED AT MASTARM POLES AND PEDESTAL POLES. ALL SUCH UNUSED CONDUCTORS SHALL BE DISCONNECTED AT THE LARGE PULL BOX ADJACENT TO THE POLE.

11. IF TRENCH WIDTHS LESS THAN 12" ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT MANAGER IN LIEU OF EARTH BACKFILL.

12. FOR CONDUITS CONTAINING ONLY LOW VOLTAGE COMMUNICATIONS CABLES, THE REQUIREMENTS FOR A SINGLE CONDUCTOR BARE COPPER WIRE #8 AWG MAY BE WAIVED WHERE PERMITTED BY THE NATIONAL ELECTRIC CODE.

13. THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS PERSONNEL WILL PROVIDE TRAFFIC SIGNAL TIMING PLANS AND WILL PROGRAM TRAFFIC SIGNAL CONTROLLERS.

14. EXISTING CONDUITS TO BE ABANDONED IN PLACE SHALL HAVE ALL WIRING REMOVED.

15. EXISTING CONDUITS SHALL BE REPAIRED AND/OR REPLACED AS DIRECTED BY THE PROJECT MANAGER WHEREVER ELECTRICAL PULL BOXES ARE INSTALLED, REPLACED, OR ADJUSTED TO GRADE. EXISTING SIGNAL CABLES ARE TO BE ADJUSTED BY THE CONTRACTOR AS APPROVED BY THE PROJECT MANAGER.

16. EXISTING ELECTRICAL PULL BOXES AND CONDUITS THAT ARE DAMAGED SHALL BE REMOVED AND/OR REPLACED AS DIRECTED BY THE PROJECT MANAGER. REMOVALS WILL BE CONSIDERED INCIDENTAL. NEW PULL BOXES AND CONDUITS WILL BE MEASURED AND PAID UNDER THE APPROPRIATE CONTRACT ITEMS.

17. PROTOTYPE "P" CONTROLLER CABINETS (WITH MONITORS, LOAD SWITCHES, DETECTORS, AND CONTROLLER) SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS SHOP ON PINO ROAD NE FOR REVIEW AND APPROVAL BEFORE MANUFACTURING STARTS ON THE REMAINING CABINETS. ANY MODIFICATIONS REQUIRED BY THE CITY DURING THE PROTOTYPE REVIEW WILL BE CONSIDERED INCIDENTAL AND NO CONTRACT PRICE INCREASE WILL BE ALLOWED. WHEN THE PROTOTYPE CABINETS ARE APPROVED, THE CONTRACTOR SHALL SCHEDULE DELIVERY OF APPROXIMATELY FIVE TO TEN CABINETS PER WEEK TO THE CITY FOR RANDOM TESTING. ONE CABINET OF EACH SIZE SHALL BE DELIVERED BY THE CONTRACTOR TO THE NMSHTD SIGNAL LABORATORY IN SANTA FE FOR TESTING. WHEN NMSHTD TESTING IS COMPLETE, THE CONTRACTOR SHALL PICK UP THE CABINETS IN SANTA FE AND DELIVER TO THE CITY TRAFFIC ENGINEERING SHOP ON PINO ROAD NE IN ALBUQUERQUE. THESE CABINETS SHALL BE RETAINED BY THE CITY FOR ADDITIONAL SHOP TESTING.

18. THE EXISTING POWER SERVICE AND GROUNDING AT EACH LOCATION SCHEDULE FOR CONTROLLER CABINET REPLACEMENT SHALL BE REVIEWED BY THE CONTRACTOR AND THE CITY. MINOR ALTERNATIONS REQUIRES BY THE CITY WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT. MAJOR ALTERATIONS INCLUDING REMOVAL AND REPLACEMENT OF METER PEDESTALS, RISERS, CONDUITS, AND WIRING WILL BE MEASURED AND PAID UNDER THE APPROPRIATE CONTRACT ITEMS.

19. PEDESTRIAN PUSH BUTTON STATIONS ARE TO BE REPLACED FOR COMPLIANCE TO ADA REQUIREMENTS (MOUNTING HEIGHT AND PUSH STRENGTH) AND POSITIONED TO PROPER MOUNTING HEIGHT AS DIRECTED BY THE PROJECT MANAGER.

20. VEHICLE LOOP DETECTORS WHICH ARE NOT FUNCTIONING PROPERLY OR ARE DAMAGED DURING INSTALLATION OF NEW CURB RAMPS SHALL BE REPLACED. PAYMENT FOR THIS WORK SHALL BE UNDER APPROPRIATE ITEM NUMBERS.

TRAFFIC SIGNAL EQUIPMENT REQUIREMENTS

1. THIS PROJECT IS AN EXPANSION OF EXISTING SIGNAL SYSTEMS. THEREFORE, THE CONTRACTOR SHALL FURNISH AND INSTALL THE FOLLOWING:

MULTISONICS EXPANSION

A. ALL TRAFFIC SIGNAL CONTROLLERS SUPPLIED FOR THIS EXPANSION SHALL BE MULTISONICS 820A VMS WITH THE ABILITY TO INTERFACE WITH THE IVMS CENTRAL EQUIPMENT.

B. CONTROLLER CABINETS SHALL BE MULTISONICS EIGHT PHASE "P" CABINETS WITH DETECTION AS INDICATED IN THE PLANS AND SPECIAL PROVISIONS. (SEE NOTE 17, THIS SHEET)

C. SUPPORTING HARDWARE FOR THE VMS-
2-VMS HARD COPY TERMINALS
a) PARALLEL PRINTER #E0446
b) ADDS TERMINAL MONITER # E0436
c) PARALLEL PRINTER CABLE #E0489
d) SERIAL PRINTER #007157-15
e) HIGH RESOLUTION COLOR SCANNER

SHALL BE INCIDENTAL TO CONTROLLER EQUIPMENT

ECONOLITE EXPANSION

A. ALL TRAFFIC SIGNAL CONTROLLERS SUPPLIED FOR THIS EXPANSION SHALL BE ECONOLITE ASC2-2100.

B. CONTROLLER CABINETS SHALL BE ECONOLITE EIGHT PHASE "P" CABINETS WITH DETECTION AS INDICATED IN THE PLANS AND SPECIAL PROVISIONS. (SEE NOTE 17 THIS SHEET)

C. SYSTEM MASTERS SHALL BE ECONOLITE ASC2/M

D. SYSTEM SOFTWARE SHALL BE ECONOLITE ARIES CENTRAL SOFTWARE. SOFTWARE SHALL BE INCIDENTAL TO SYSTEM MASTERS

INCLUDED WITH SOFTWARE SHALL BE
- TRAINING 24HRS INITIAL/8HR FOLLOW UP BY ECONOLITE PERSONNEL
- INSTALLATION BY ECONOLITE PERSONNEL
- EXISTING DATA UPDATE/ TRANSFER TO ARIES SYSTEM BY ECONOLITE PERSONNEL
- BYLINK VIDEO INTERFACE UNIT
- 2-COMPUTERS WORK STATIONS W/FURNITURE

WORK STATIONS SHALL HAVE THE FOLLOWING:
- INTEL 266 MHz PENTIUM II PROCESSOR
- 32 MB DRAM
- 256K INTERNAL CACHE
- 5 GB HARD DRIVE W/READ/WRITE CD BACKUP
- GRAPHIC ACCELERATOR
- 16 X CD ROM DRIVE
- 21" COLOR MONITOR SVGA
- HIGH DEFINITION SOUND CARD & PERIPHERAL OUTPUT DEVICES
- 104 ERGONOMIC KEYBOARD
- MS WINDOWS NT 4.0 OR LATEST OPERATING SYSTEM
- MS OFFICE 97 PROFESSIONAL EDITION
- HIGH RESOLUTION COLOR LASER JET PRINTER

NOTE E. GPS RECEIVER AND SUPPORT EQUIPMENT INCIDENTAL TO SYSTEM MASTERS:

2-HAND HELD GPS RECEIVERS AND SUPPORT EQUIPMENT TO MEET THE FOLLOWING REQUIREMENTS:

- MINIMUM OF 10 ACTIVE CHANNELS
- MINIMUM 8 HOURS CONTINUOUS DATA STORAGE AT 1 SECOND INTERVALS
- CAPABLE OF TRACKING 8 SATELLITES MINIMUM
- MINIMUM 0.5 METER ACCURACY
- CAPABLE OF REFERENCING STATE PLANE COORDINATES
- MINIMUM OF 80 CHARACTERS PER ATTRIBUTE DATA LABEL
- DATA UPLOADING, INCLUDING ATTRIBUTE DATA, CAPABILITY
- CAPABLE OF RTCM AND POST PROCESSED DIFFERENTIAL CORRECTIONS
- RS232 PORT FOR DATA TRANSFER
- MINIMUM INTERNAL STORAGE OF 500 POSITIONS
- INCLUDE STANDARD CODE DIFFERENTIAL SOFTWARE
- SUB-METER ANTENNA KIT W/12 VOLT ADAPTER
- SUB-METER PROCESSING SOFTWARE
- CARTEGRAPH SYSTEMS SIGNALVIEW AND SIGNVIEW SOFTWARE
- PC BASED (WINDOWS NT/95) SOFTWARE FOR PLANNING, PROCESSING AND OUTPUT TO GIS (ARCINFO FORMAT) OR CAD FORMATS
- 12 CHANNEL DGPS REFERENCE RECEIVER STATION W/MULTIPATH ANTENNA AND CABLING
- 2 HIGH RESOLUTION DIGITAL COLOR IMAGE CAPTURING DEVICES WITH MULTIPLE IMAGE STORAGE CAPABILITY AND DOWNLINK CABLING AND SOFTWARE
- PC WORKSTATION FURNITURE FOR STATION AND NECESSARY EXTERNAL POWER CABLES
- PC BASED (WINDOWS NT/95 SIGNAL PROCESSING AND CONTROL SOFTWARE
- 16 HOURS ON SITE TRAINING TO BE CONDUCTED AFTER VENDOR CERTIFIED INSTALLATION COMPLETE. (WILL BE SCHEDULED BY TRAFFIC ENGINEERING PERSONNEL AND MAY BE BROKEN INTO 2 SESSIONS)
- ALL REQUIRED LICENSES AND WARRANTIES TO BE OBTAINED IN THE CITY OF ALBUQUERQUE'S NAME BY VENDOR CERTIFIED INSTALLING CONTRACTOR. ALL WARRANTIES AND LISCENSES IN THE CITY'S NAME TO BECOME EFFECTIVE NO SOONER THAN THE DATE THAT ACCEPTANCE OF GPS EQUIPMENT
- 90 DAYS UNLIMITED TELEPHONE SUPPORT FROM VENDOR OR APPROVED AGENT

2. 3M "OPTICOM" MODEL 562 PHASE SELECTORS, MOUNTED ON 3M "OPTICOM" MODEL 360 RACKS OR APPROVED EQUAL. ALL RACKS SHALL BE CAPABLE OF PROVIDING FOUR CHANNELS OF DETECTION. PHASE SELECTOR MODULES SHALL BE CAPABLE OF TWO CHANNELS OF DETECTION EACH. 3M "OPTICOM" MODEL 511 OPTICAL DETECTORS, SINGLE DIRECTION, SINGLE CHANNEL (1D/1C) OR APPROVED EQUAL. "OPTICOM" MODEL 138 DETECTOR CABLE APPROVED EQUAL. 3M MANUFACTURER'S REPRESENTATIVES SHALL PROVIDE FIELD ASSISTANCE DURING INSTALLATION, SET-UP, TESTING, AND A ONE-DAY TRAINING SESSION FOR UP TO 20 CITY AND NMSHTD PERSONNEL. A TEST EMITTER AND CONNECTING CABLES SHALL BE FURNISHED TO THE CITY TRAFFIC ENGINEERING OPERATIONS COMPUTER BUILDING ON WYOMING BOULEVARD NE, (505-291-6220).

3. EXISTING TRAFFIC SIGNAL EQUIPMENT SHALL BE SALVAGED AS FOLLOWS:

A. ALL EXISTING CONTROLLERS, CABINETS, LOAD SWITCHES, DETECTORS (SHELF AND RACK MOUNTED), INTERSECTION MONITORS, POLES, AND OTHER SIGNAL EQUIPMENT SHALL BE DELIVERED TO THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING OPERATIONS YARD ON PINO ROAD NE.

B. THE CONTRACTOR SHALL PREPARE ITEMIZED DESCRIPTIONS OF ALL EQUIPMENT SALVAGED FOR CITY REVIEW APPROVAL AND RECORD KEEPING. THE CONTRACTOR SHALL CONTACT THE CITY'S TRAFFIC ENGINEERING OPERATIONS OFFICE AT 505-857-8000 TO MAKE APPOINTMENTS FOR SALVAGE EQUIPMENT DELIVERY.

UTILITY OWNERS

PNM - JIM VANN 848-3426
GAS CO. - TIM CYNOVA 761-7775
JONES INTERCABLE - KAREN SHORE 761-6220
US WEST COMMUNICATIONS - MARY ANN REYES 245-6296
AT & T - ISHMAEL PANIOJA 842-2806
WATER AND SANITARY SEWER - 768-2718

FOR INFORMATION ONLY

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AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES — NO. — BY — DATE

ENGINEER'S SEAL
CASEY E. BACA — 12353 — REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	UPDATE SPECIFCATIONS	BY
1	6-3-97	REMARKS	CB

DESIGN — DATE
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
GENERAL NOTES

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT - 7 1996 DESIGN REVIEW COMMITTEE			

DRAWING NO. 5361.91 | MAP NO. | SHEET 3-1

F:\CDASIG\planset\TRAFSIG 6-5-97 2:41:34 pm EST

													EMERGENCY VEHICLE PRE-EMPT EQUIPMENT						
			Traffic Actuated		Controller				New				Existing and New				Phase Selecto		Optical
Proj.			Controllers		Cabinets (1)		Meter Service		Curb Ramps (2)				Optical Detectors				Modules		Detector
Loc.	ICU		Existing	Replacement	Existing	New	Existing	New	NE	NW	SE	SW	N BND	S BND	E BND	W BND		NEW	Cable
No.	#	LOCATION	Controller	Controller	Cabinet	Cabinet		REQ'D	Corner	Corner	Corner	Corner	NE Cor	SW Cor	SE Cor	NW Cor	Existing	REQ'D	New - LF
1	143	Wyoming/Harper	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	300
2	125	Wyoming/Comanche	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	300
3	124	Wyoming/Candelaria	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	400
4	63	Wyoming/Indian School Rd.	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
5	202	Eubank/Juan Tabo (T)	MS 820	MS 820A	M	P	Yes	No	--	NEW	--	--	NEW	NEW	NEW	NEW	0	2	600
6	204	Eubank/Layton (T)	MS 820	MS 820A	M	P	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
7	207	Eubank/Spain	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
8	206	Eubank/Osuna	MS 820	MS 820A	M	P	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	400
9	137	Eubank/Montgomery	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	NEW	NEW	0	2	675
10	158	Eubank/Candelaria	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	400
11	179	Eubank/Menaul	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	Exist	NEW	1	1	600
12	122	Eubank/Indian School Rd.	MS 820	MS 820A	P	Existing	--	Yes	--	NEW	--	NEW	NEW	NEW	NO	NO	0	1	400
13	80	Eubank/Copper	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
14	79	Eubank/Chico	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
15	193	Eubank/Southern	MS 820	MS 820A	M	P	--	Yes	NEW	NEW	NEW	NEW	NO	NO	NO	NO	0	0	0
16	194	Eubank/Gibson (T)	MS 820	MS 820A	M	P	Yes	No	NEW	--	--	--	NO	NO	NO	NO	0	0	0
17	106	Montgomery/Jefferson (T)	MS 820	MS 820A	M	P	Yes	No	--	--	--	NEW	NO	NO	NEW	NEW	0	1	300
18	13	San Mateo/McLeod	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
19	219	Academy/Far North	MS 820	MS 820A	P	Existing	No	Yes	--	--	--	--	NO	NO	NEW	NEW	0	1	300
20	218	Academy/Truchas (T)	MS 820	MS 820A	M	P	Yes	No	--	--	--	--	NO	NO	NO	NO	0	0	0
21	209	Academy/Moon	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NO	NO	NEW	NEW	0	1	300
22	208	Academy/Tanoan (T)	MS 820	MS 820A	M	P	Yes	No	--	NEW	--	NEW	NO	NO	NEW	NEW	0	1	300
23	66	Louisiana/Amks. Pkwy. S.	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	NEW	NEW	0	2	675
24	222	Amks. Pkwy./Uptown	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NO	NO	NO	NO	0	0	0
25	223	Amks. Pkwy./Indian School Rd	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NO	NO	NO	NO	0	0	0
26	177	Juan Tabo/Lomas	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	NEW	NEW	NEW	0	2	675
27	167	Juan Tabo/Menaul	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NEW	NEW	0	2	675
28	160	Juan Tabo/Candelaria	MS 820	MS 820A	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
29	140	Juan Tabo/Montgomery	MS 820	MS 820A	P	Existing	--	Yes	--	--	--	--	NEW	Exist	NEW	NEW	1	1	600
30	201	Juan Tabo/Spain	MS 820	MS 820A	M	P	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	400
31	302	Coors/Quail	EconASC 2-2100	Existing	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
32	304	Coors/Sequoia	EconASC 2-2100	Existing	P	Existing	Yes	No	--	NEW	NEW	NEW	NEW	NEW	NO	NO	0	1	300
33	306	Coors/Ladera (St. Joes)	EconASC 2-2100	Existing	P	Existing	--	Yes	NEW	NEW	NEW	NEW	NEW	NEW	NO	NO	0	1	400
34	312	Coors/Dellyne (T)	EconASC 2-2100	Existing	M	P	Yes	No	--	NEW	--	NEW	NEW	NEW	NO	NO	0	1	300
35	314	Coors/Montano (Master)	EconASC 2-2100	Existing	P	Existing	Yes	No	NEW	NEW	NEW	NEW	NEW	NEW	NO	NO	0	1	300
36	316	Coors/Montano Plaza	EconASC 2-2100	Existing	P	Existing	Yes	No	--	NEW	NEW	NEW	NEW	NEW	NO	NO	0	1	400
37	318	Coors/La Orilla	KMC 8000	EconASC 2-2100	M	P	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	400
38	324	Coors/Sipi (T)	EconASC 2-2100	Existing	M	P	Yes	No	--	--	NEW	--	NEW	NEW	NO	NO	0	1	400
39	325	Coors/Paseo del Norte	KMC 8000	EconASC 2-2100	P	Existing	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	750
40	327	Coors/Irving	KMC 8000	EconASC 2-2100	P	Existing	--	Yes	--	NEW	--	--	NEW	NEW	NO	NO	0	1	400
41	375	Coors/Central (Master)	EAGLE EPAC	EconASC 2-2100	P	P	Yes	No	--	--	--	--	NEW	NEW	NEW	NEW	0	2	675
42	377	Coors/Bluewater	EAGLE EPAC	EconASC 2-2100	P	P	Yes	No	--	--	--	--	NEW	NEW	NO	NO	0	1	300
43	379	Coors/Fortuna	EAGLE EPAC	EconASC 2-2100	P	P	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	300
44	381	Coors/Hanover	EAGLE EPAC	EconASC 2-2100	P	P	--	Yes	--	--	--	--	NEW	NEW	NO	NO	0	1	300
45	383	Coors/Iliff	EAGLE EPAC	EconASC 2-2100	P	P	--	Yes	NEW	--	--	--	NEW	NEW	NO	NO	0	1	300

(1) All controller cabinets shall be "P" rack mounted and shall match the required signal controller for the intersection.

(2) Curb Ramps shall be paid for under items #608004 Sidewalk, #608404 Concrete Median Pavement (Colored and Patterned) and #609450 Concrete Barrier Cub and Gutter.

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AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY: DATE
INSPECTION ACCEPTANCE BY: DATE
FIELD VERIFICATION BY: DATE
DRAWINGS CORRECTED BY: DATE
MICRO-FILM INFORMATION
RECORDED BY: DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
LOUIS E. PACHECO NEW MEXICO 12153 REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION – PHASE THREE A CONTROLLER UPGRADE & INTERSECTION MODIFICATION SHEET

DESIGN REVIEW COMMITTEE: APPROVED OCT - 7 1996 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
MO./DAY/YR. | MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3-2

Proj. Loc. No.	ICU #	LOCATION	PEDESTRIAN CROSSINGS NORTH E to W	SOUTH W to E	EAST N to S	WEST S to N	PEDESTRIAN PUSHBUTTONS SMALL	LARGE	REMOVALS / OBSTRUCTIONS
1	143	Wyoming/Harper					0	8	
2	125	Wyoming/Comanche					0	8	
3	124	Wyoming/Candelaria					0	8	
4	63	Wyoming/Indian School Rd.					0	8	
5	202	Eubank/Juan Tabo (T)		Remove			0	6	Remove Pedestrian Signals & Button South W to E
6	204	Eubank/Layton (T)	Remove				0	6	Remove Pedestrian Signal & Buttons North E to W
7	207	Eubank/Spain					0	8	SE Corner Remove and Replace Sign/SW Corner Remove and Relocate MA to back of sidewalk
8	206	Eubank/Osuna					0	8	
9	137	Eubank/Montgomery					0	8	
10	158	Eubank/Candelaria					0	8	
11	179	Eubank/Menaul					0	8	
12	122	Eubank/Indian School Rd.					0	8	SE Corner Remove and Replace Manhole
13	80	Eubank/Copper					0	8	
14	79	Eubank/Chico					0	8	NW Corner Remove and Replace Sign
15	193	Eubank/Southern					0	8	NW and SW Corners Remove and Replace Pull Boxes
16	194	Eubank/Gibson (T)					0	6	
17	106	Montgomery/Jefferson (T)			Remove		0	6	Remove Pedestrian Signals and Buttons East N to S
18	13	San Mateo/McLeod					0	8	
19	219	Academy/Far North					0	8	
20	218	Academy/Truchas (T)					0	6	
21	209	Academy/Moon					0	8	
22	208	Academy/Tanoan (T)					0	6	
23	66	Louisiana/Amks. Pkwy. S.					0	8	
24	222	Amks. Pkwy./Uptown					0	8	
25	223	Amks. Pkwy./Indian School Rd.					0	8	
26	177	Juan Tabo/Lomas					0	8	
27	167	Juan Tabo/Menaul					0	8	
28	160	Juan Tabo/Candelaria					0	8	
29	140	Juan Tabo/Montgomery					0	8	
30	201	Juan Tabo/Spain					0	8	
31	302	Coors/Quail					0	8	
32	304	Coors/Sequoia					0	8	
33	306	Coors/Ladera (St. Joes)					0	8	
34	312	Coors/Dellyne (T)					0	6	
35	314	Coors/Montano					0	8	NE, SE, NW, SW Corners - Remove and Replace Pull Box
36	316	Coors/Montano Plaza					0	8	NE, SE, NW, SW Corners - Remove and Replace Pull Box
37	318	Coors/La Orilla					0	8	
38	324	Coors/Sipi (T)					0	6	
39	325	Coors/Paseo del Norte					0	8	
40	327	Coors/Irving					0	8	
41	375	Coors/Central					0	8	
42	377	Coors/Bluewater					0	8	
43	379	Coors/Fortuna					0	8	
44	381	Coors/Hanover					0	8	
45	383	Coors/Iliff					0	8	

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTION & ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
CHRIS E. BAGLEY
NEW MEXICO
12133
REGISTERED PROFESSIONAL ENGINEER
10-3-96

NO. | DATE | REMARKS | BY

DESIGN
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

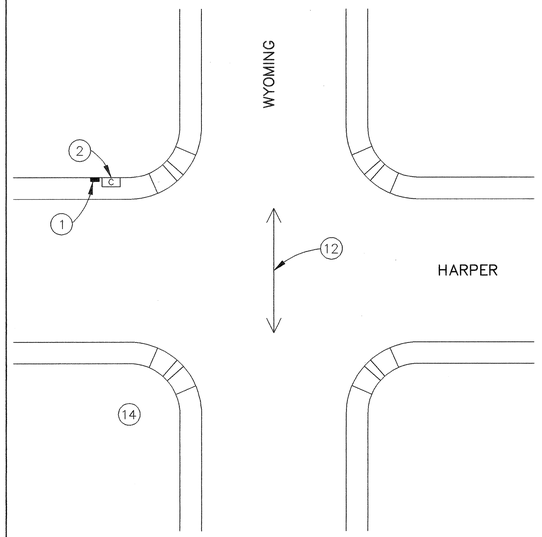
TITLE: DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION – PHASE THREE A CONTROLLER UPGRADE & INTERSECTION MODIFICATION SHEET

DESIGN REVIEW COMMITTEE: APPROVED OCT - 7 1996 DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

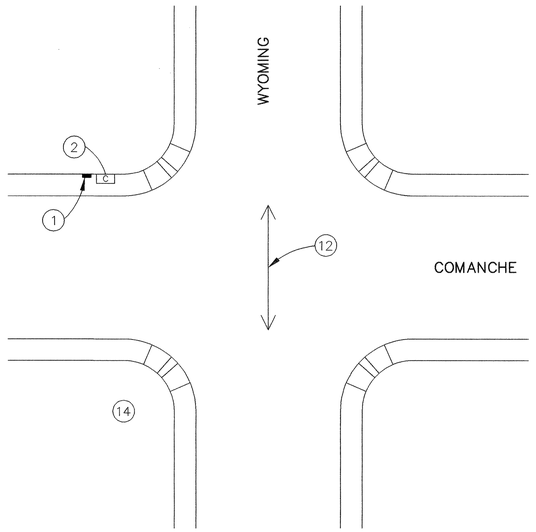
MO./DAY/YR.	MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3-3



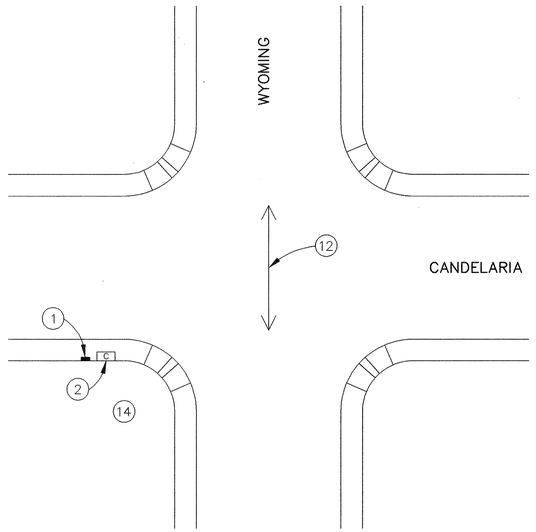
INTERSECTION 1 – WYOMING/HARPER

NOT TO SCALE



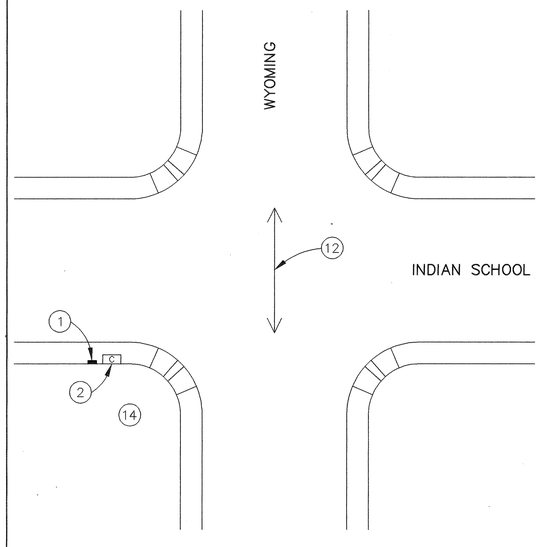
INTERSECTION 2 – WYOMING/COMANCHE

NOT TO SCALE



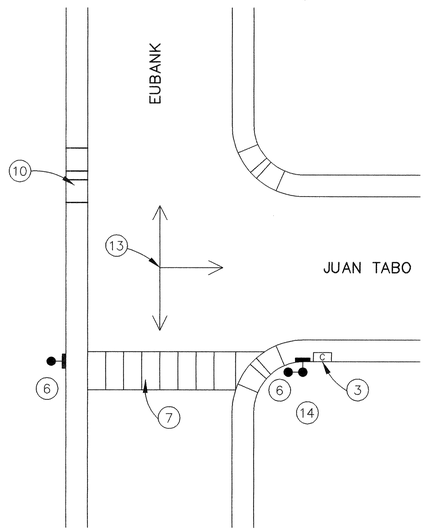
INTERSECTION 3 – WYOMING/CANDELARIA

NOT TO SCALE



INTERSECTION 4 – WYOMING/INDIAN SCHOOL

NOT TO SCALE



INTERSECTION 5 – EUBANK/JUAN TABO

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
4. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON EXISTING FOUNDATION
5. INSTALL NEW CONTROLLER CABINET WITH EXISTING CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13.
6. REMOVE PEDESTRIAN ASSEMBLY
7. ERADICATE EXISTING CROSSWALK MARKINGS
8. APPLY 12" WHITE REFLECTORIZED PLASTIC CROSSWALK
9. INSTALL NEW WHEELCHAIR RAMP – TYPE A SEE SHEET 2–1 FOR DETAILS
10. INSTALL NEW WHEELCHAIR RAMP – TYPE B SEE SHEET 2–1 FOR DETAILS
11. INSTALL PRE–EMPTION ALONG EAST–WEST ARTERIAL
12. INSTALL PRE–EMPTION ALONG NORTH–SOUTH ARTERIAL
13. INSTALL PRE–EMPTION ALONG NORH–SOUTH AND EAST–WEST DIRECTIONS
14. INSTALL NEW PEDESTRIAN PUSH BUTTONS
15. INSTALL NEW MASTER CONTROLLER

GENERAL NOTES

1) UNLESS NOTED, CURB RAMPS SHOWN ARE EXISTING AND SHALL REMAIN IN PLACE.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD MARKS VERIFICATION BY — DATE
CHANGES CORRECTED BY
MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CHARLES E. BAGLEY 12133 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–3357

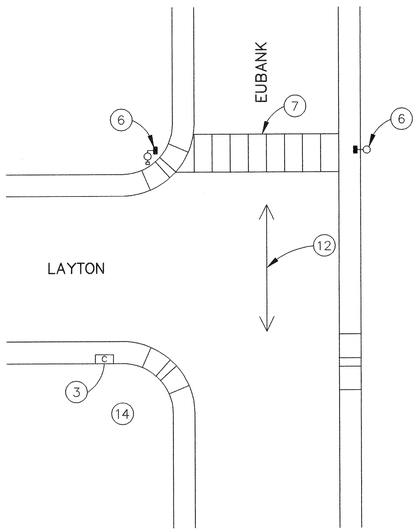
FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

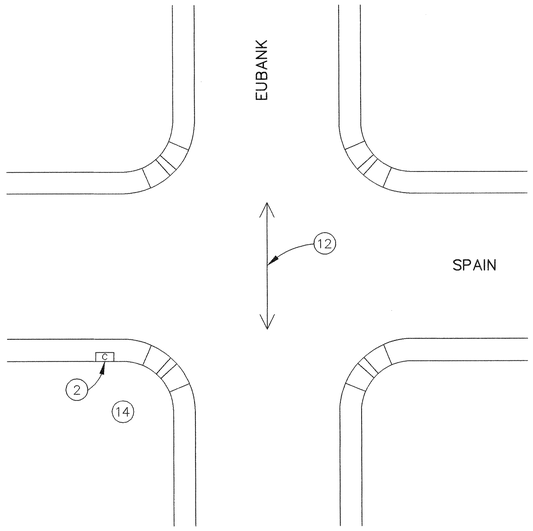
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL		MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT – 7 1996 DESIGN REVIEW COMMITTEE				

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–4



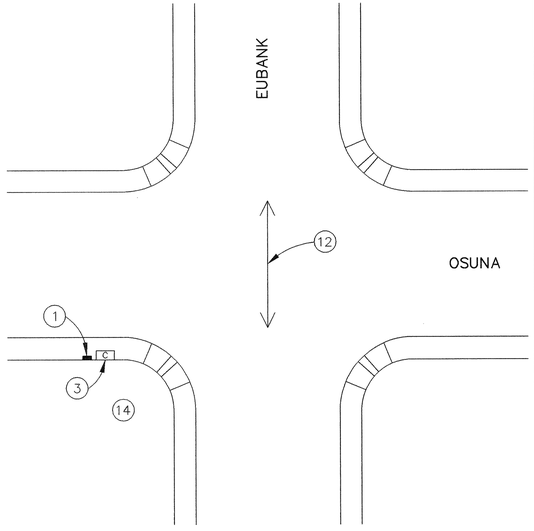
INTERSECTION 6 – EUBANK/LAYTON

NOT TO SCALE



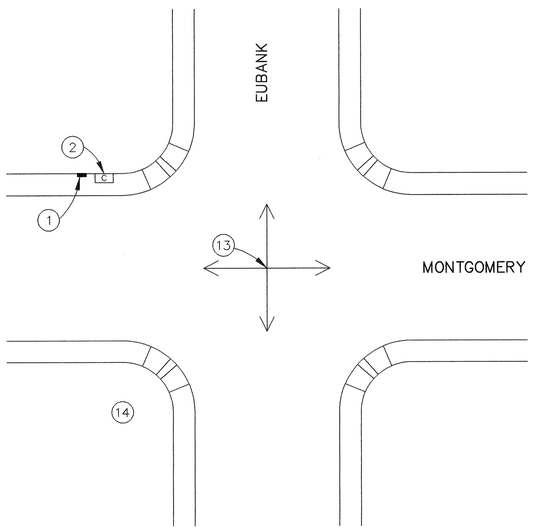
INTERSECTION 7 – EUBANK/SPAIN

NOT TO SCALE



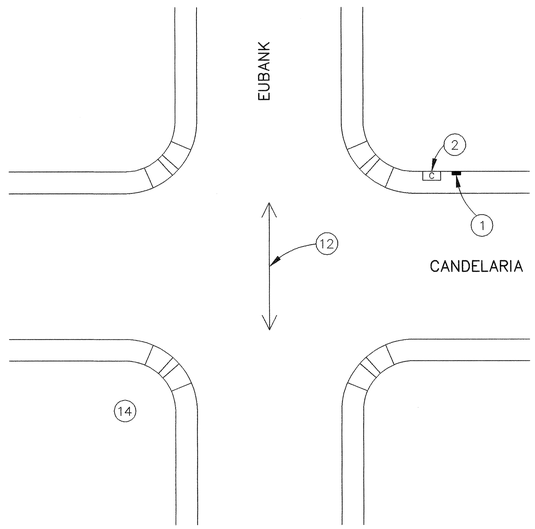
INTERSECTION 8 – EUBANK/OSUNA

NOT TO SCALE



INTERSECTION 9 – EUBANK/MONTGOMERY

NOT TO SCALE



INTERSECTION 10 – EUBANK/CANDELARIA

NOT TO SCALE

GENERAL NOTES

1) UNLESS NOTED, CURB RAMPS SHOWN ARE EXISTING AND SHALL REMAIN IN PLACE.

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
4. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON EXISTING FOUNDATION
5. INSTALL NEW CONTROLLER CABINET WITH EXISTING CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13.
6. REMOVE PEDESTRIAN ASSEMBLY
7. ERADICATE EXISTING CROSSWALK MARKINGS
8. APPLY 12" WHITE REFLECTORIZED PLASTIC CROSSWALK
9. INSTALL NEW WHEELCHAIR RAMP – TYPE A SEE SHEET 2–1 FOR DETAILS
10. INSTALL NEW WHEELCHAIR RAMP – TYPE B SEE SHEET 2–1 FOR DETAILS
11. INSTALL PRE–EMPTION ALONG EAST–WEST ARTERIAL
12. INSTALL PRE–EMPTION ALONG NORTH–SOUTH ARTERIAL
13. INSTALL PRE–EMPTION ALONG NORH–SOUTH AND EAST–WEST DIRECTIONS
14. INSTALL NEW PEDESTRIAN PUSH BUTTONS
15. INSTALL NEW MASTER CONTROLLER

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE - Suite 200
Albuquerque, NM 87109 – (505) 881–5357

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY / INSPECTION BY / ACCEPTANCE BY / FIELD LOCATION BY / DRAWINGS CORRECTED BY — DATE
MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
CESAR E. RIOS
NEW MEXICO
12133
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

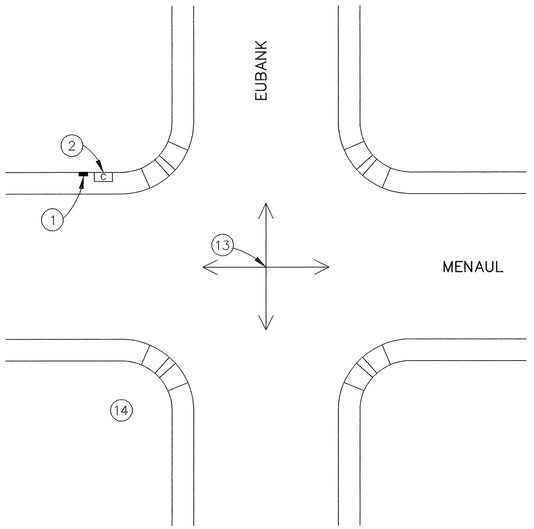
TITLE:

DESIGN REVIEW COMMITTEE
APPROVED
OCT - 7 1996
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

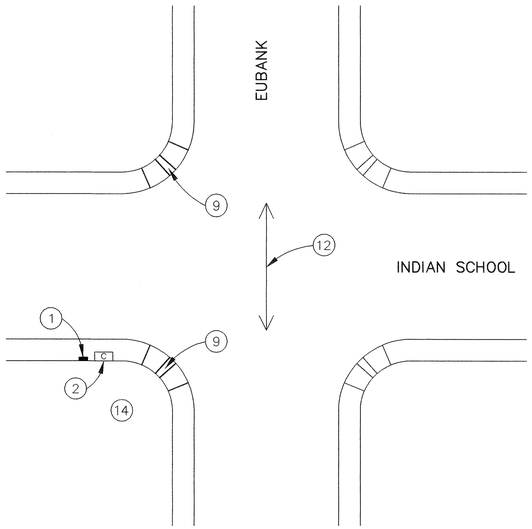
MO./DAY/YR. | MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–5



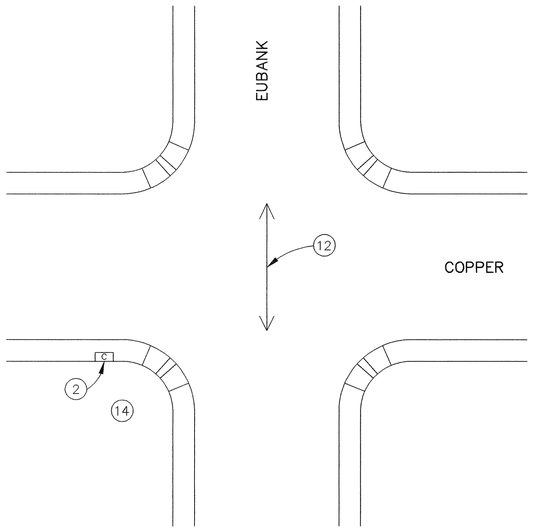
INTERSECTION 11 – EUBANK/MENAUL

NOT TO SCALE



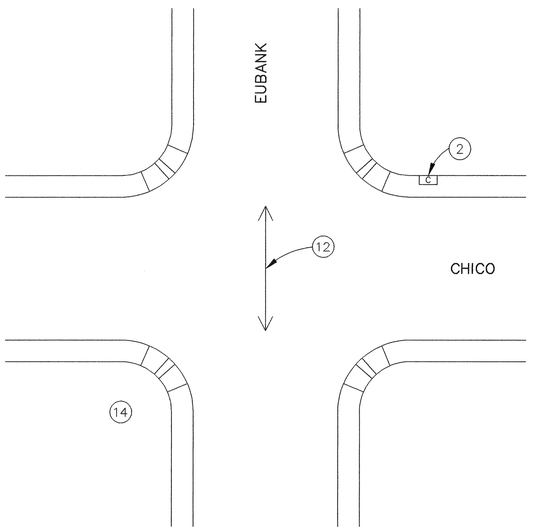
INTERSECTION 12 – EUBANK/INDIAN SCHOOL

NOT TO SCALE



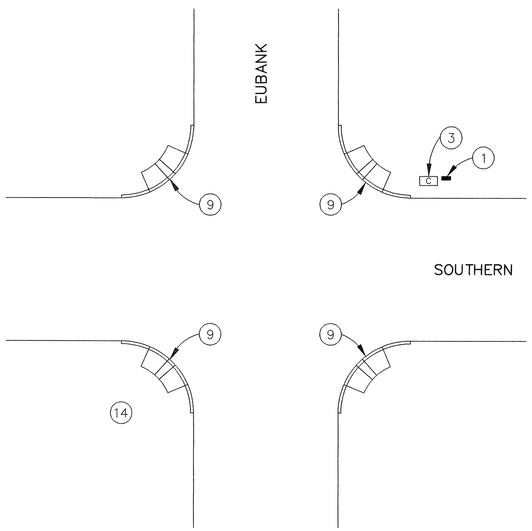
INTERSECTION 13 – EUBANK/COPPER

NOT TO SCALE



INTERSECTION 14 – EUBANK/CHICO

NOT TO SCALE



INTERSECTION 15 – EUBANK/SOUTHERN

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
4. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON EXISTING FOUNDATION
5. INSTALL NEW CONTROLLER CABINET WITH EXISTING CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13.
6. REMOVE PEDESTRIAN ASSEMBLY
7. ERADICATE EXISTING CROSSWALK MARKINGS
8. APPLY 12" WHITE REFLECTORIZED PLASTIC CROSSWALK
9. INSTALL NEW WHEELCHAIR RAMP – TYPE A SEE SHEET 2–1 FOR DETAILS
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13. INSTALL PRE–EMPTION ALONG NORH–SOUTH AND EAST–WEST DIRECTIONS
14. INSTALL NEW PEDESTRIAN PUSH BUTTONS
15. INSTALL NEW MASTER CONTROLLER

GENERAL NOTES

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Albuquerque, NM 87109 – (505) 881–3357

AS BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES — NO. — BY — DATE

ENGINEER'S SEAL
CHRIS E. BALDWIN — 12133 — REGISTERED PROFESSIONAL ENGINEER — 8-7-98

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

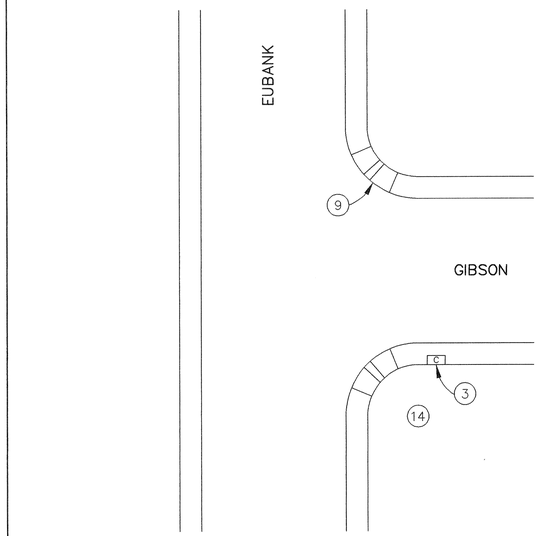
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

APPROVED — OCT – 7 1998 — DESIGN REVIEW COMMITTEE

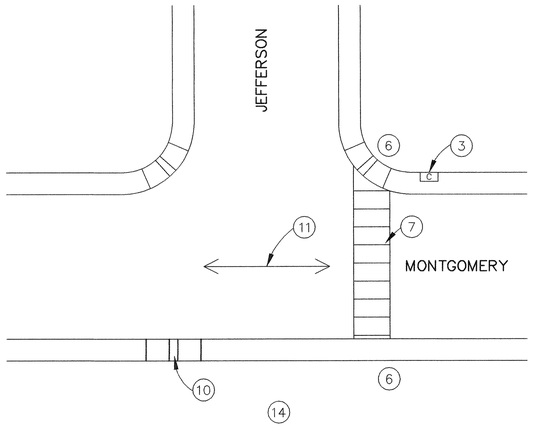
CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.

DRAWING NO. 5361.91 — MAP NO. — SHEET 3–6



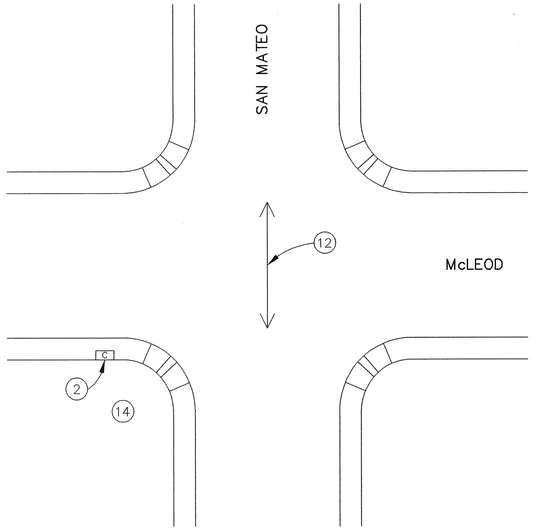
INTERSECTION 16 – EUBANK/GIBSON

NOT TO SCALE



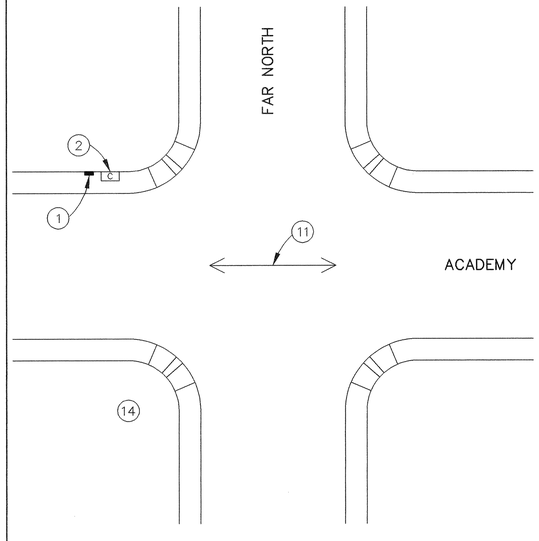
INTERSECTION 17 – MONTGOMERY/JEFFERSON

NOT TO SCALE



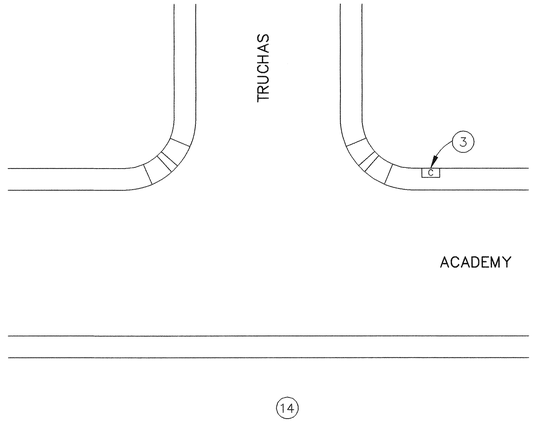
INTERSECTION 18 – SAN MATEO/McLEOD

NOT TO SCALE



INTERSECTION 19 – ACADEMY/FAR NORTH

NOT TO SCALE



INTERSECTION 20 – ACADEMY/TRUCHAS

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
4. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON EXISTING FOUNDATION
5. INSTALL NEW CONTROLLER CABINET WITH EXISTING CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13.
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15. INSTALL NEW MASTER CONTROLLER

GENERAL NOTES

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AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
INSPECTOR'S FIELD CHANGE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
CHRISTOPHER M. ISAACSON 12133 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

AVID ENGINEERING, INC.
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Albuquerque, NM 87109 – (505) 881–5357

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

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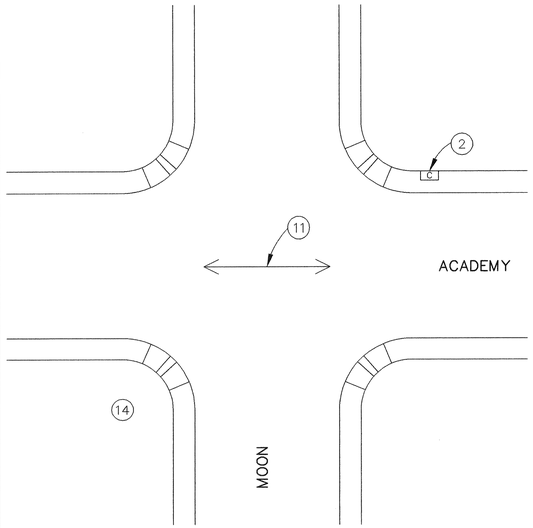
APPROVED
OCT – 7 1996
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

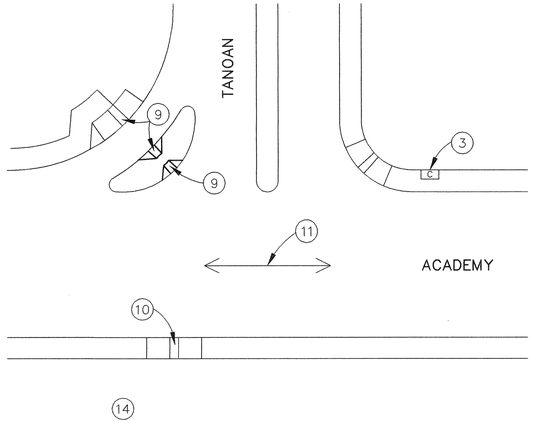
MO./DAY/YR.	MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–7



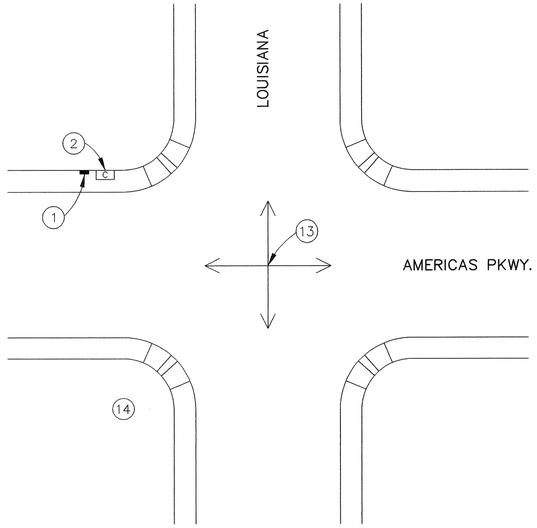
INTERSECTION 21 – ACADEMY/MOON

NOT TO SCALE



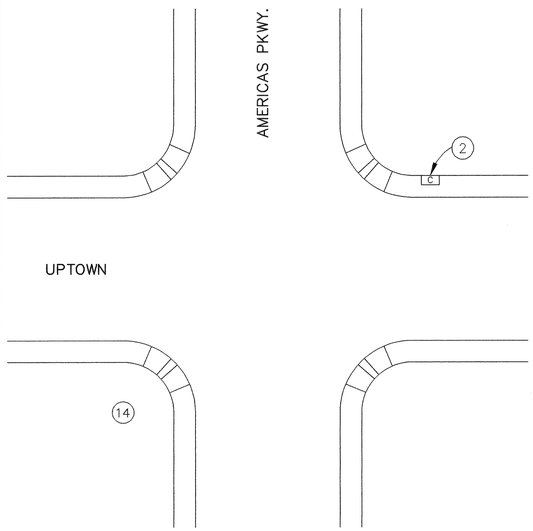
INTERSECTION 22 – ACADEMY/TANOAN

NOT TO SCALE



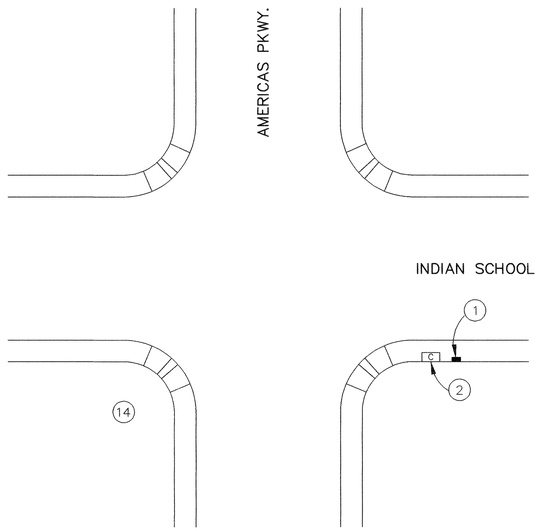
INTERSECTION 23 – LOUISIANA/AMERICAS PKWY.

NOT TO SCALE



INTERSECTION 24 – AMERICAS PKWY./UPTOWN

NOT TO SCALE



INTERSECTION 25 – AMERICAS PKWY./INDIAN SCHOOL

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
4. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON EXISTING FOUNDATION
5. INSTALL NEW CONTROLLER CABINET WITH EXISTING CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13.
6. REMOVE PEDESTRIAN ASSEMBLY
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14. INSTALL NEW PEDESTRIAN PUSH BUTTONS
15. INSTALL NEW MASTER CONTROLLER

GENERAL NOTES

1) UNLESS NOTED, CURB RAMPS SHOWN ARE EXISTING AND SHALL REMAIN IN PLACE.

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTION & ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWING CORRECTED BY — DATE
MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. | FIELD NOTES BY | DATE

ENGINEER'S SEAL
CHARLES E. BAACK — NEW MEXICO — 12733 — REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY

DESIGN
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

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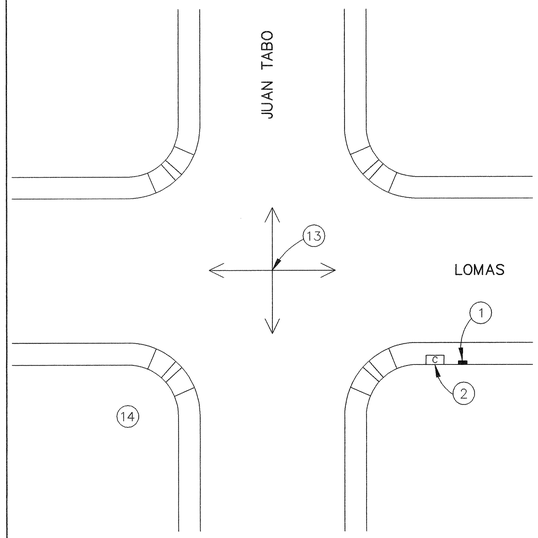
AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

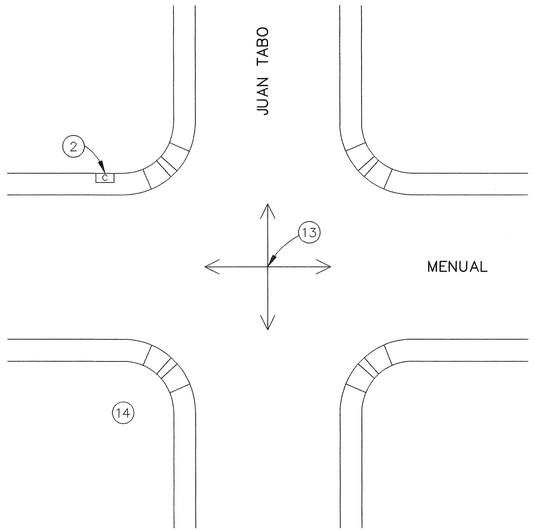
DESIGN REVIEW COMMITTEE — APPROVED — OCT – 7 1996 — DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
MO./DAY/YR. | MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–8



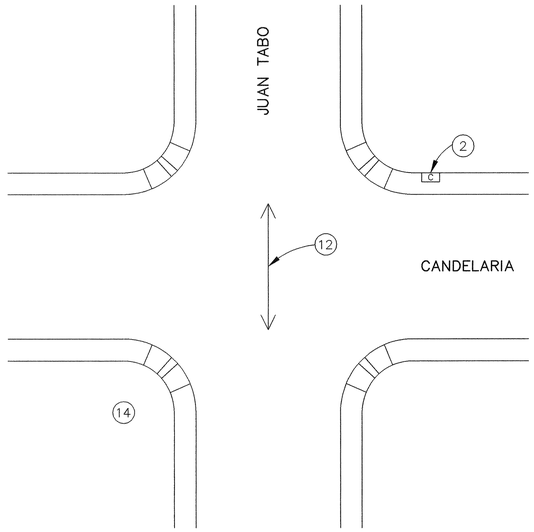
INTERSECTION 26 – JUAN TABO/LOMAS

NOT TO SCALE



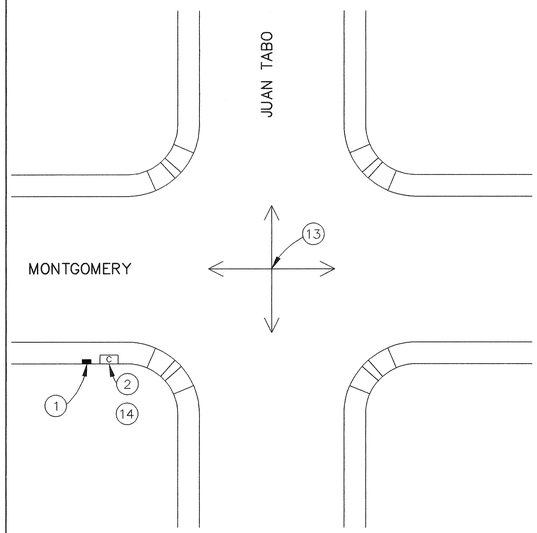
INTERSECTION 27 – JUAN TABO/MENAUL

NOT TO SCALE



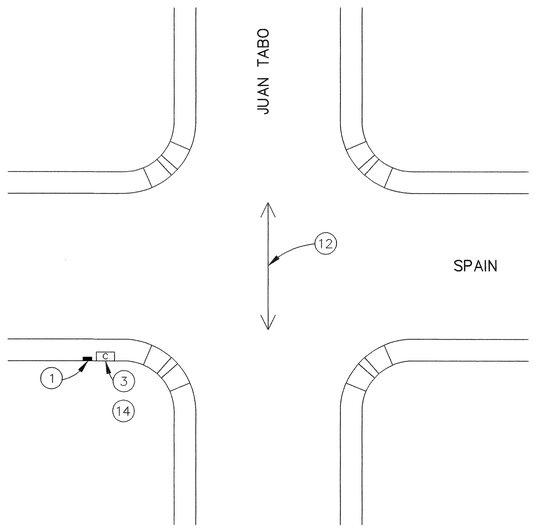
INTERSECTION 28 – JUAN TABO/CANDELARIA

NOT TO SCALE



INTERSECTION 29 – JUAN TABO/MONTGOMERY

NOT TO SCALE



INTERSECTION 30 – JUAN TABO/SPAIN

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
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15. INSTALL NEW MASTER CONTROLLER

GENERAL NOTES

1) UNLESS NOTED, CURB RAMPS SHOWN ARE EXISTING AND SHALL REMAIN IN PLACE.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
FINAL MARKS CORRECTED BY — DATE
MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
CHARLES E. BAASCH NEW MEXICO 12133 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY	DATE
		DRAWN BY	DATE
		CHECKED BY	DATE

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–5357

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

DESIGN REVIEW COMMITTEE
IF IN DOUBT CALL
OCT – 7 1996
DESIGN REVIEW COMMITTEE

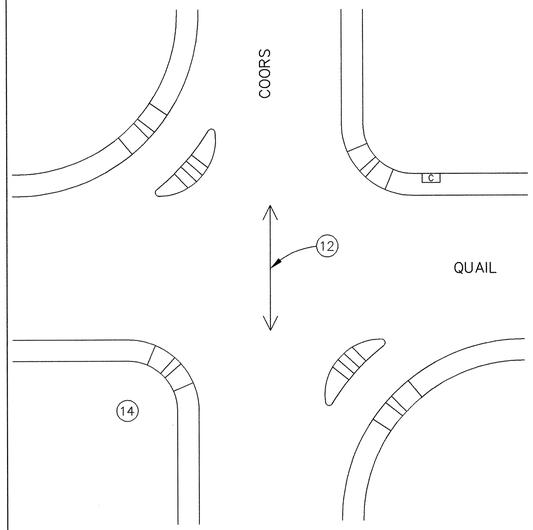
CITY ENGINEER APPROVAL

MO./DAY/YR.	MO./DAY/YR.

DRAWING NO. 5361.91

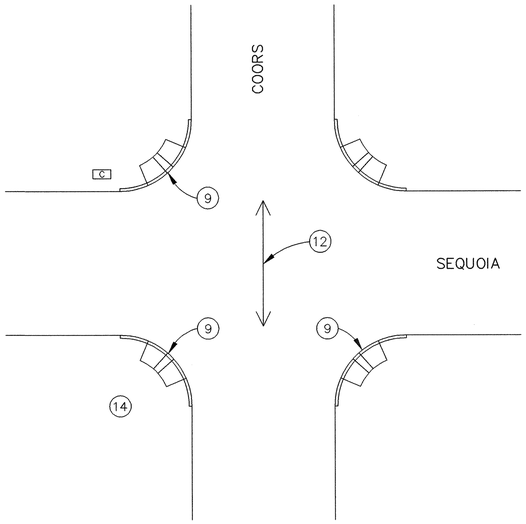
MAP NO.

SHEET 3–9



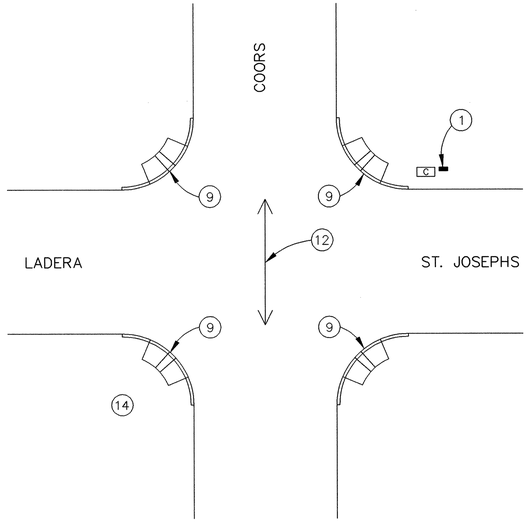
INTERSECTION 31 – COORS/QUAIL

NOT TO SCALE



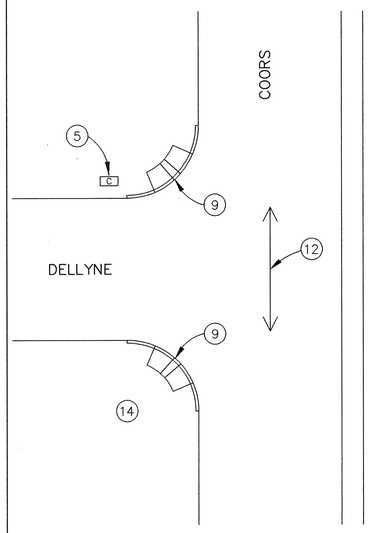
INTERSECTION 32 – COORS/SEQUOIA

NOT TO SCALE



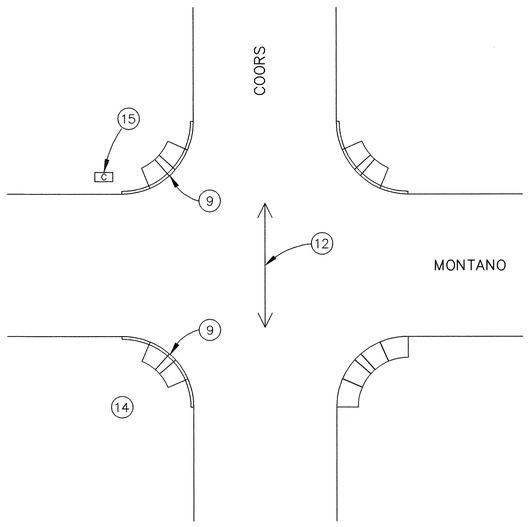
INTERSECTION 33 – COORS/LADERA

NOT TO SCALE



INTERSECTION 34 – COORS/DELLYNE

NOT TO SCALE



INTERSECTION 35 – COORS/MONTANO

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
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GENERAL NOTES

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SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
WORK COMPLETED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
JESUS E. BACA 12133 REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY

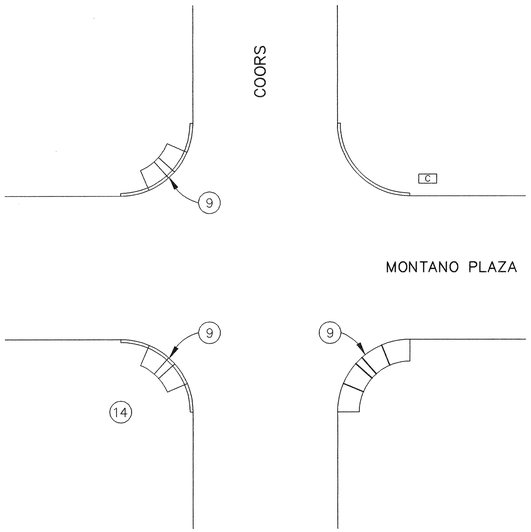
DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

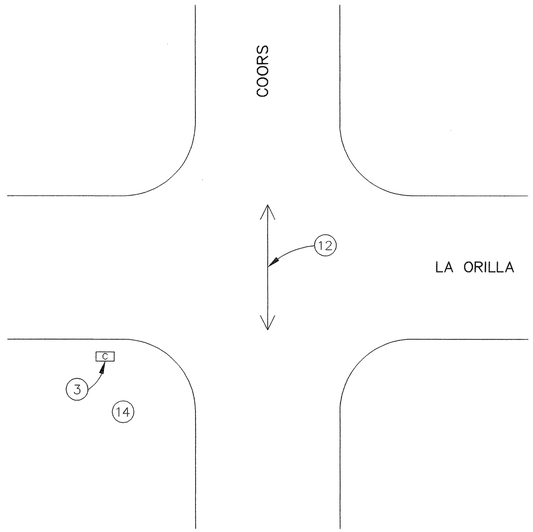
DESIGN REVIEW COMMITTEE: APPROVED OCT – 7 1996 DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL
MO./DAY/YR.
MO./DAY/YR.

DRAWING NO. 5361.91
MAP NO.
SHEET 3–10



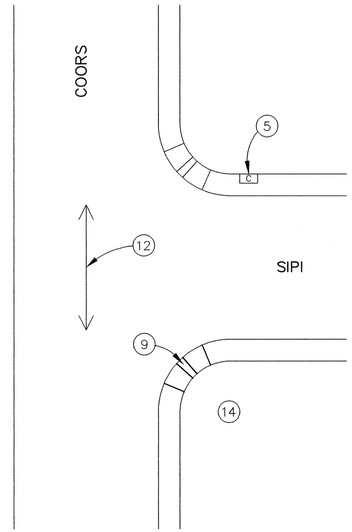
INTERSECTION 36 – COORS/MONTANO PLAZA

NOT TO SCALE



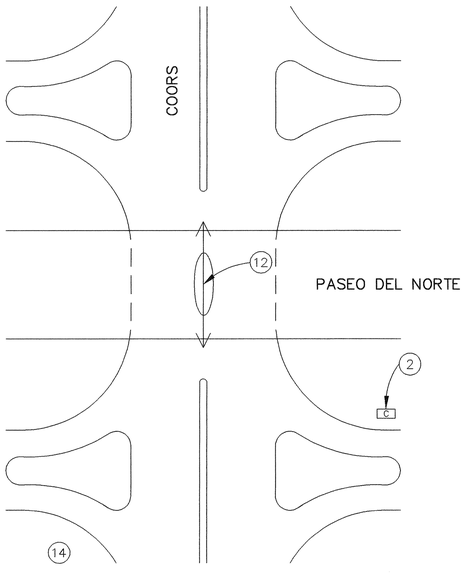
INTERSECTION 37 – COORS/LA ORILLA

NOT TO SCALE



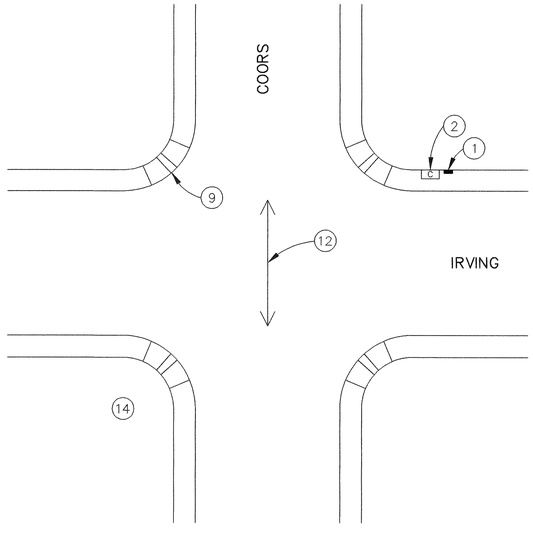
INTERSECTION 38 – COORS/SIPI

NOT TO SCALE



INTERSECTION 39 – COORS/PASEO DEL NORTE

NOT TO SCALE



INTERSECTION 40 – COORS/IRVING

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
4. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON EXISTING FOUNDATION
5. INSTALL NEW CONTROLLER CABINET WITH EXISTING CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13.
6. REMOVE PEDESTRIAN ASSEMBLY
7. ERADICATE EXISTING CROSSWALK MARKINGS
8. APPLY 12" WHITE REFLECTORIZED PLASTIC CROSSWALK
9. INSTALL NEW WHEELCHAIR RAMP – TYPE A SEE SHEET 2–1 FOR DETAILS
10. INSTALL NEW WHEELCHAIR RAMP – TYPE B SEE SHEET 2–1 FOR DETAILS
11. INSTALL PRE–EMPTION ALONG EAST–WEST ARTERIAL
12. INSTALL PRE–EMPTION ALONG NORTH–SOUTH ARTERIAL
13. INSTALL PRE–EMPTION ALONG NORH–SOUTH AND EAST–WEST DIRECTIONS
14. INSTALL NEW PEDESTRIAN PUSH BUTTONS
15. INSTALL NEW MASTER CONTROLLER

GENERAL NOTES

1) UNLESS NOTED, CURB RAMPS SHOWN ARE EXISTING AND SHALL REMAIN IN PLACE.

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881-5307

AS BUILT INFORMATION
CONTRACTOR — DATE
STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
CORRECTED BY — DATE

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

MICRO–FILM INFORMATION
RECORDED BY — DATE
NO.

ENGINEER'S SEAL
CHRIS E. BACA 12133 REGISTERED PROFESSIONAL ENGINEER 9-22-96

NO.	DATE	REMARKS	BY

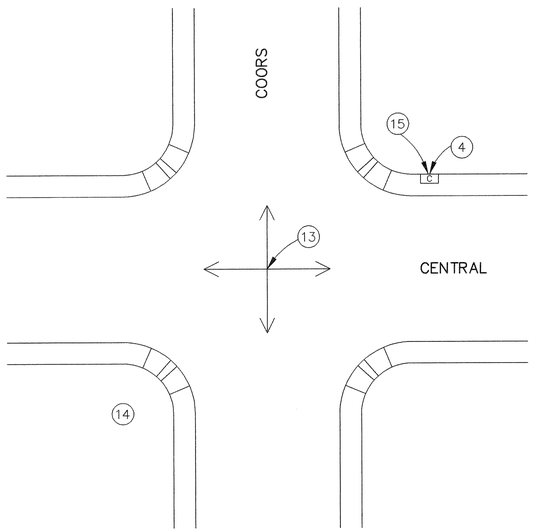
DESIGN
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

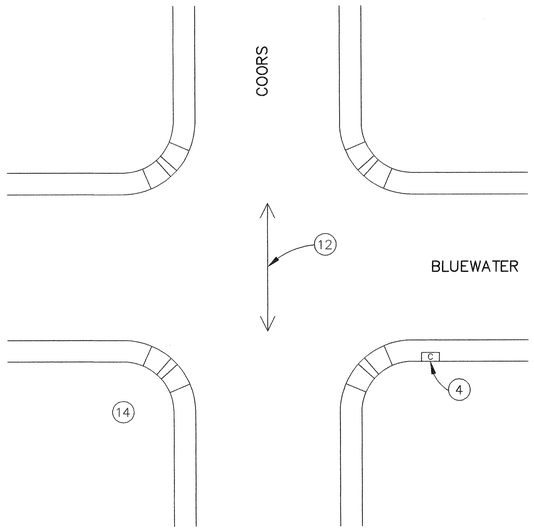
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
APPROVED OCT – 7 1996 DESIGN REVIEW COMMITTEE			

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–11



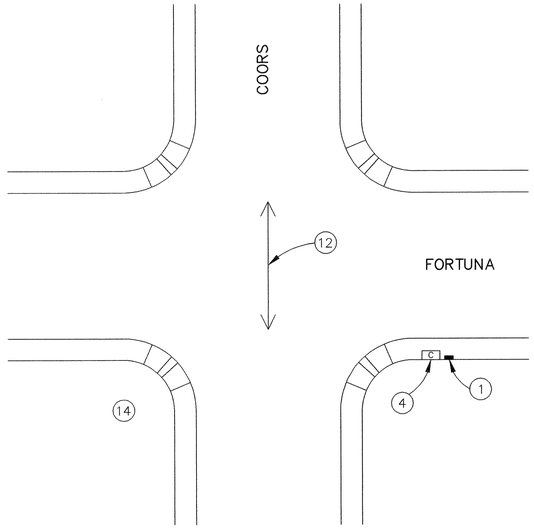
INTERSECTION 41 – COORS/CENTRAL

NOT TO SCALE



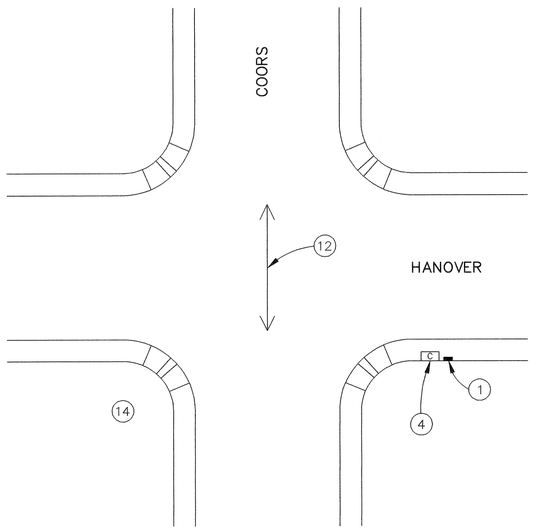
INTERSECTION 42 – COORS/BLUEWATER

NOT TO SCALE



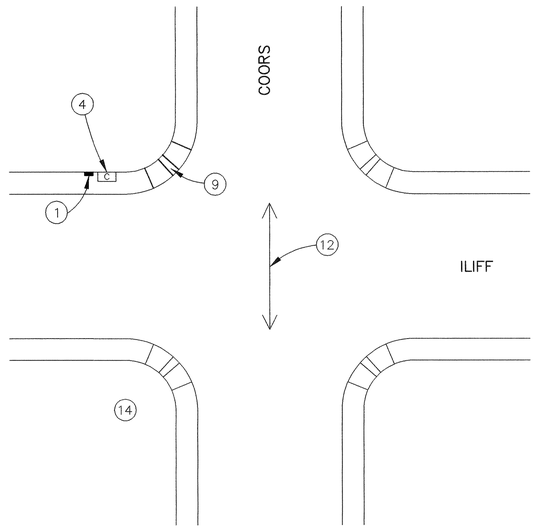
INTERSECTION 43 – COORS/FORTUNA

NOT TO SCALE



INTERSECTION 44 – COORS/HANOVER

NOT TO SCALE



INTERSECTION 45 – COORS/ILIFF

NOT TO SCALE

KEYED NOTES

1. INSTALL NEW METER SERVICE
2. INSTALL NEW CONTROLLER IN EXISTING CABINET
3. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13
4. INSTALL NEW CONTROLLER CABINET AND NEW CONTROLLER ON EXISTING FOUNDATION
5. INSTALL NEW CONTROLLER CABINET WITH EXISTING CONTROLLER ON MODIFIED FOUNDATION SEE DETAIL SHEET 3–13.
6. REMOVE PEDESTRIAN ASSEMBLY
7. ERADICATE EXISTING CROSSWALK MARKINGS
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13. INSTALL PRE–EMPTION ALONG NORH–SOUTH AND EAST–WEST DIRECTIONS
14. INSTALL NEW PEDESTRIAN PUSH BUTTONS
15. INSTALL NEW MASTER CONTROLLER

GENERAL NOTES

1) UNLESS NOTED, CURB RAMPS SHOWN ARE EXISTING AND SHALL REMAIN IN PLACE.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
INSPECTION BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
NO. FIELD NOTES BY DATE

ENGINEER'S SEAL
CHARLES E. BARTH
NEW MEXICO
12133
REGISTERED PROFESSIONAL ENGINEER

NO. DATE REMARKS BY

DESIGN
DESIGNED BY DATE
DRAWN BY DATE
CHECKED BY DATE

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–5357

FOR INFORMATION ONLY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:

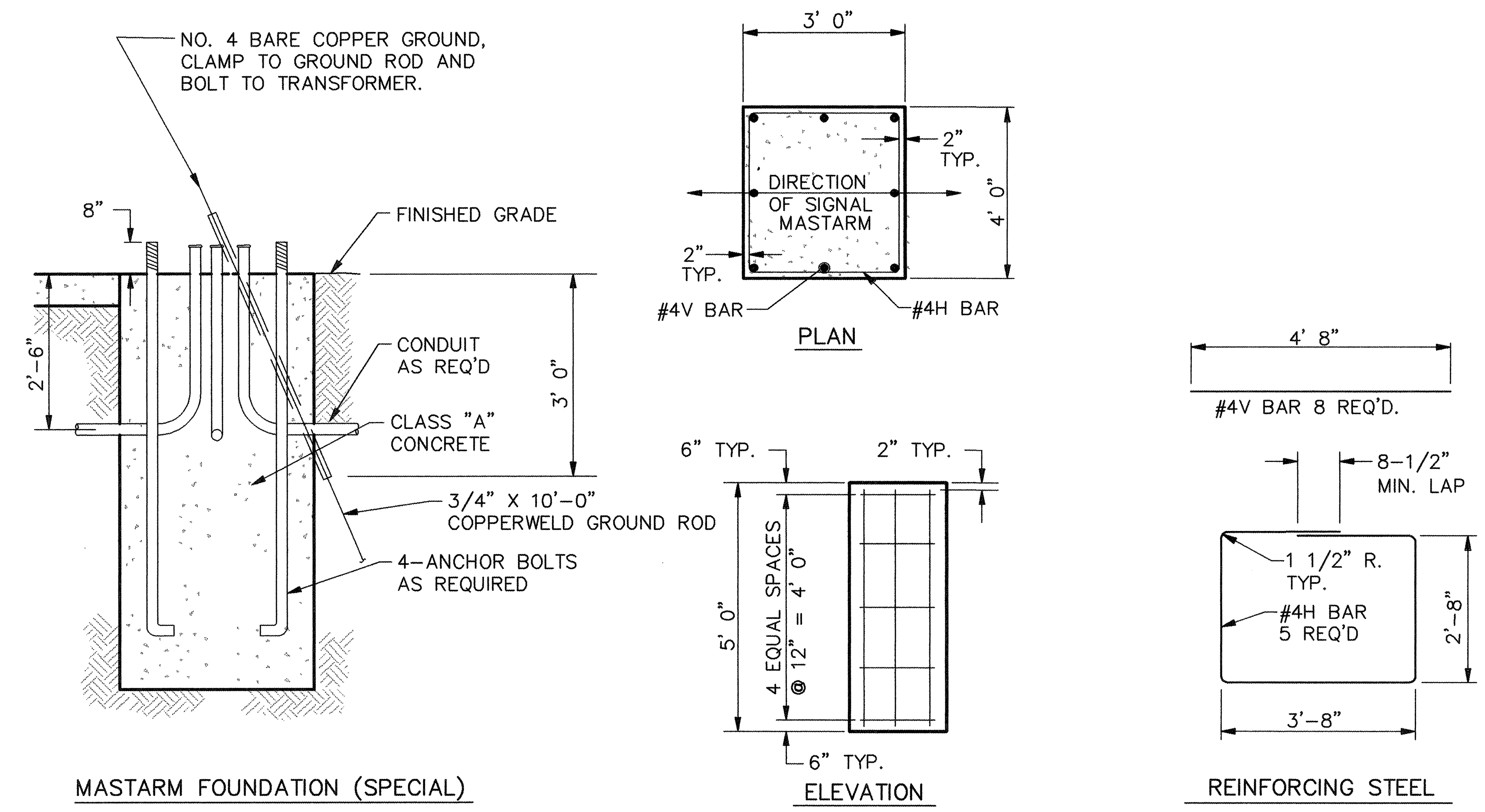
DESIGN REVIEW COMMITTEE
APPROVED
OCT – 7 1996
DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

MO./DAY/YR. | MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–12

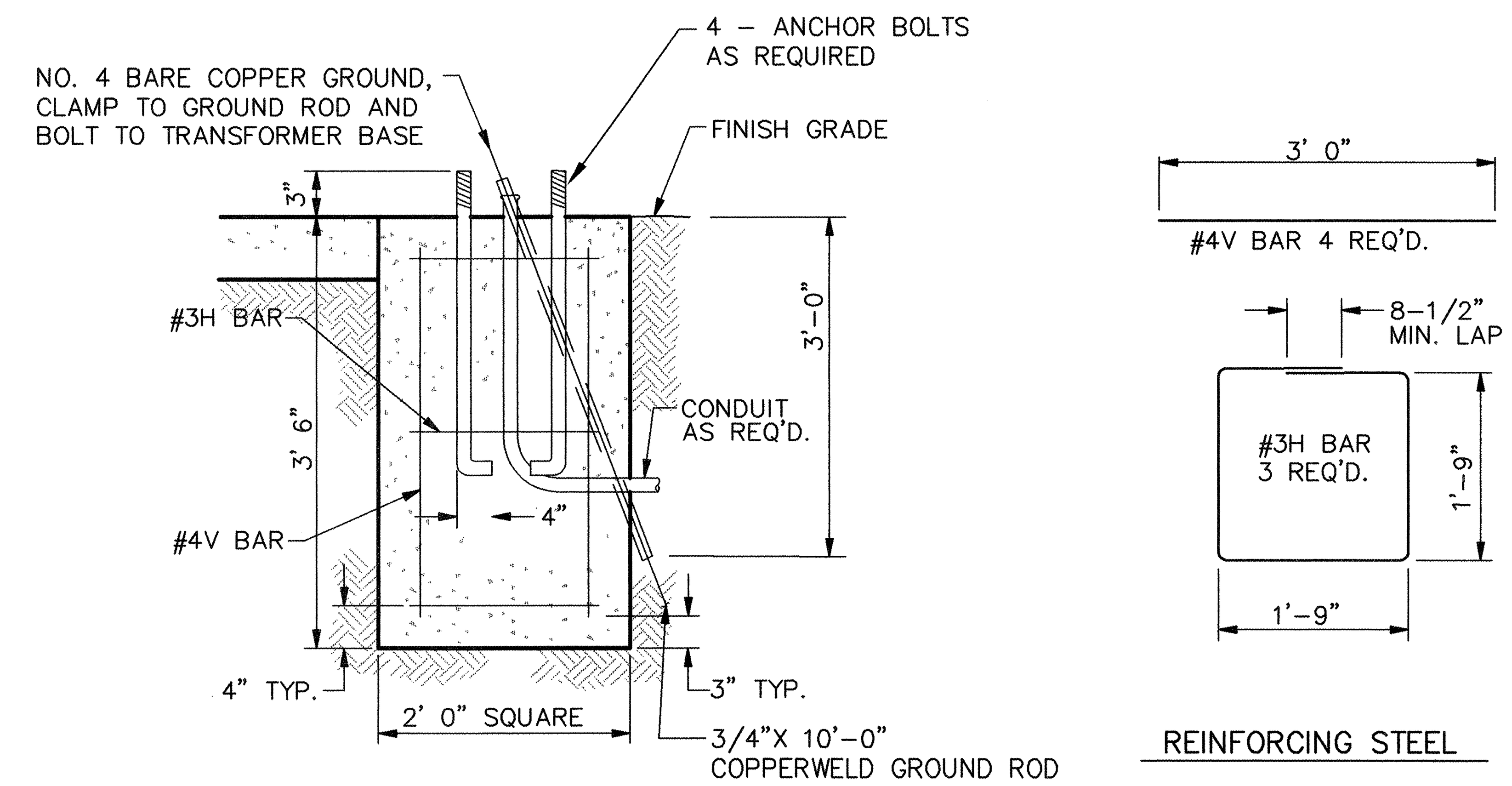
MASTARM FOUNDATION DETAILS—TYPE II & TYPE III STANDARDS



MASTARM FOUNDATION DETAILS—TYPE II & TYPE III STANDARDS

TYPES II & III – 15' TO 40' MASTARM LENGTH

PEDESTAL FOUNDATION DETAILS—TYPE I STANDARD



PEDESTAL FOUNDATION DETAILS—TYPE I STANDARD

NOTES

1. ALTERNATE DESIGNS FOR STANDARD FOUNDATIONS TO BE SUBMITTED TO THE BRIDGE ENGINEER FOR APPROVAL.
2. ALL GROUND RODS SHALL BE 3/4" X 10'-0". ALL SIGNAL FOUNDATIONS SHALL INCLUDE COPPERWELD GROUND RODS AS SHOWN WHICH SHALL BE CONSIDERED INCIDENTAL TO THE COMPLETION OF THE FOUNDATION. NO PRICE OR PAYMENT SHALL BE MADE THEREFOR.
3. FINISHED GRADE FOR ALL FOUNDATIONS TO BE DETERMINED BY THE PROJECT ENGINEER. THE TOP OF STANDARD FOUNDATIONS SHALL BE FLUSH WITH ADJACENT SIDEWALK OR PAVED AREAS.

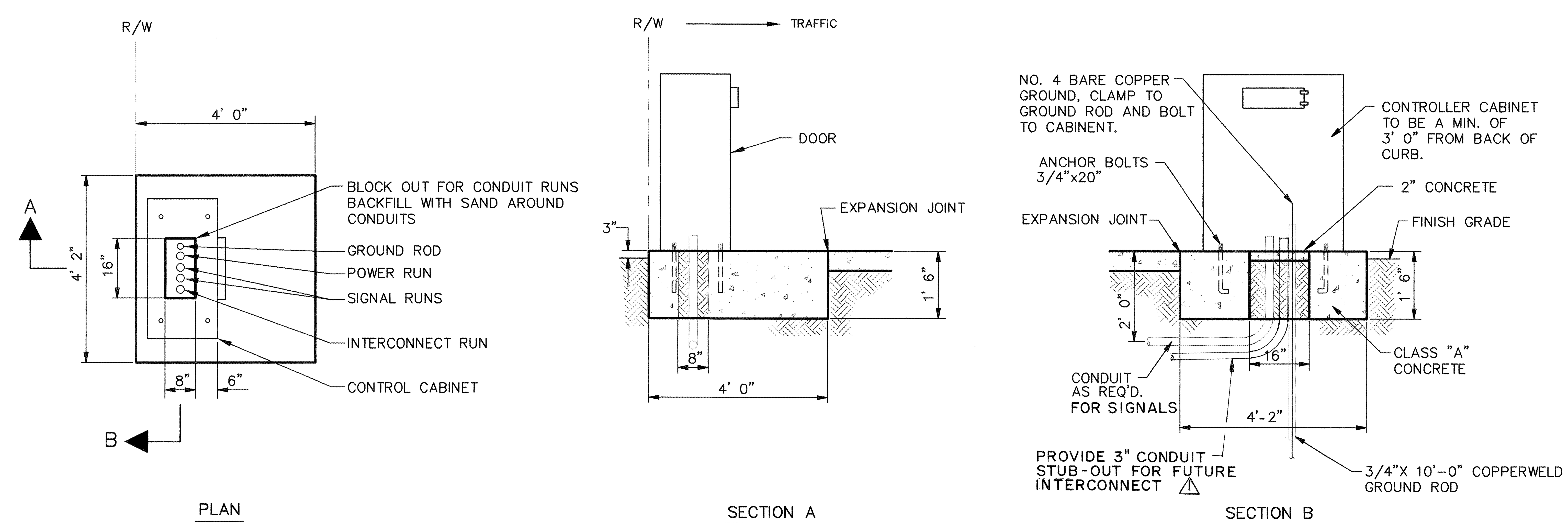
ESTIMATED QUANTITIES

FOUNDATION	CONCRETE CUBIC YARDS	REINFORCING BARS POUNDS
MASTARM – TYPES II & III (FOR 15 FOOT TO 40 FOOT MASTARM)	2.22	72
PEDESTAL POLE TYPE I	0.52	17
CONTROLLER CABINET TYPE P&R	0.88	--
SPLICE CABINET	0.52	17

(FOR CONTRACTORS INFORMATION ONLY)

PAID FOR UNDER ITEMS 511000 STRUCTURAL CONCRETE AND 540060 REINFORCING BARS

CONTROLLER FOUNDATION DETAIL



CONTROLLER FOUNDATION DETAIL

IN THE EVENT THE SUPPLIED CABINET WOULD OVERLAP THE SIDES OF ABOVE FOUNDATION. THE FOUNDATION SHALL BE INCREASED IN SIZE AS DIRECTED BY THE ENGINEER.

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Albuquerque, NM 87109 – (505) 881-5357

AS BUILT INFORMATION: CONTRACTOR / WORK STARTED / WORK COMPLETED / STAKED BY / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION: RECORDED BY / NO. — DATE

BENCH MARKS

SURVEY INFORMATION: FIELD NOTES — NO. / BY / DATE

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
1	6-3-97	CONDUIT FOR FUTURE INTERCONNECT	

DESIGN: DESIGNED BY RLB · DRAWN BY DS, DS · CHECKED BY CP, RR

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER
SIGNAL SYSTEM EXPANSION
PHASE THREE A
FOUNDATION DETAILS

DESIGN REVIEW COMMITTEE / CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.

APPROVED OCT – 7 1996 DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 · MAP NO. L15,16&17 · SHEET 3–13

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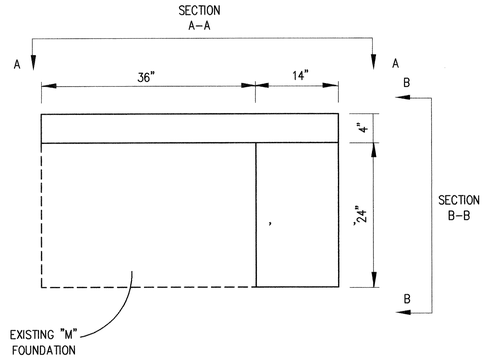
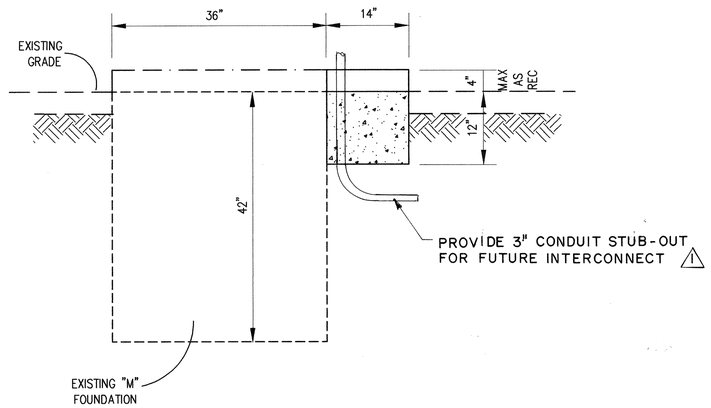
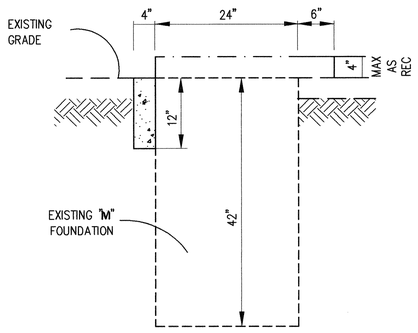


PLAN



SECTION A–A



SECTION B–B

ESTIMATED QUANTITIES FOR NEW FOUNDATION MODIFICATION

CABINET	SIZE	511000 STRUCTURAL CONCRETE
CONVERTING "M" CABINET TO "P" CABINET	24"X24"X36"(EXISTING) 14'X28'X12' (NEW) 4'X36'X12' (NEW)	0.138 CY

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–5357

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
FINAL INSPECTION DATE
ACCEPTANCE BY DATE
CERTIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
JAMES E. BRUCE
12133
REGISTERED PROFESSIONAL ENGINEER
6-2-96

NO.	DATE	REMARKS	BY
1	6-3-97	CONDUIT FOR FUTURE INTERCONNECT	

DESIGN
DESIGNED BY RLB DATE
DRAWN BY DS, DS DATE
CHECKED BY CP, RR DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER
SIGNAL SYSTEM EXPANSION
PHASE THREE A
FOUNDATION MODIFICATION

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL
APPROVED
OCT - 7 1996
DESIGN REVIEW COMMITTEE

MO./DAY/YR.	MO./DAY/YR.

DRAWING NO. 5361.91
MAP NO. L15,16&17
SHEET 3–14

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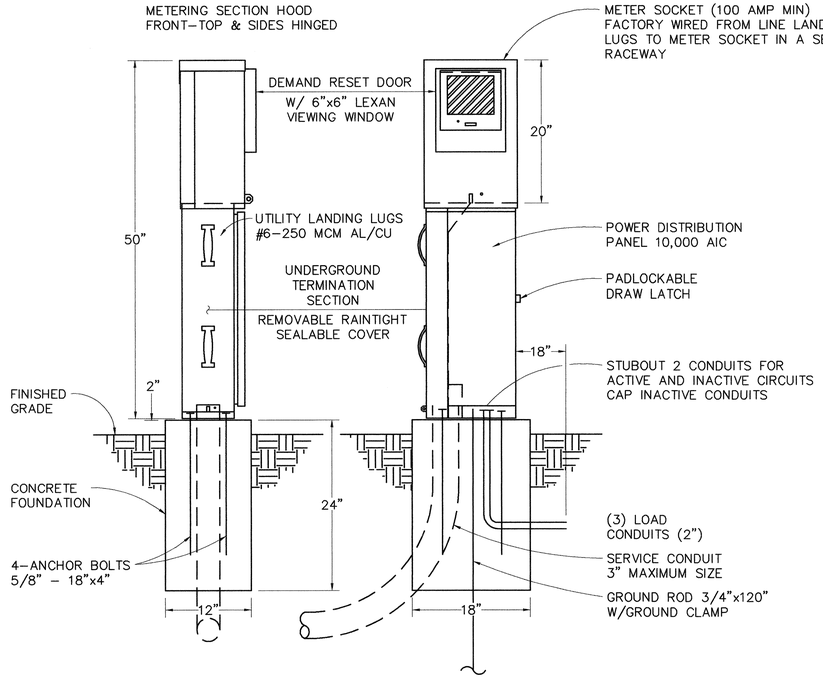
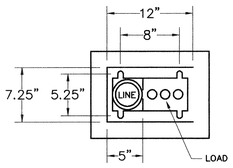
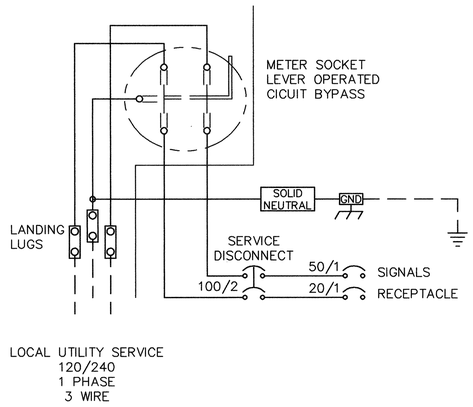


LEFT SIDE FRONT VIEW



BASE PLAN



SERVICE EQUIPMENT WIRING DIAGRAM "A"

ENCLOSURE CONSTRUCTION NOTES

1. SERVICE PEDESTAL SHALL BE UL LISTED "INDUSTRIAL CONTROL PANEL" PER UL 508.
2. SERVICE PEDESTAL SHALL MEET THE ELECTRIC UTILITY SERVICE EQUIPMENT REQUIRMENTS COMMITTEE (EUSERC) GUIDELINES.
3. CONSTRUCTION SHALL BE NEMA 3R AND 12, RAINTIGHT AND DUST TIGHT. ELECTRICALLY WELDED AND REINFORCED WHERE REQUIRED.
4. ALL NUTS, BOLTS, SCREWS AND HINGES SHALL BE STAINLESS STEEL.
5. NUTS, BOLTS & SCREWS SHALL NOT BE VISIBLE FROM OUTSIDE OF ENCLOSURE.
6. PHENOLIC NAMEPLATES SHALL BE PROVIDED AS REQUIRED.
7. CIRCUIT BREAKERS SHALL BE CABLE IN–CABLE OUT WITH LINE ON TOP & LOAD ON THE BOTTOM. HANDLE POSITION UP="ON", MIDDLE="TRIPPED", DOWN="OFF".
8. A PLASTIC COVERED WIRING DIAGRAM SHALL BE ATTACHED TO THE INSIDE OF THE FRONT DOOR.
9. ENCLOSURE SHALL BE FACTORY WIRED AND CONFORM TO REQUIRED NEMA STANDARDS.
10. ALL POWDER COATED CABINETS SHALL HAVE A CORROSION RESISTANT COATING WHICH INCLUDES A FIVE STEP DIP TANK METAL PREPARATION PROCESS:
    A. ALKALINE CLEANER 160° F.
    B. CLEAR WATER RINSE.
    C. IRON PHOSPHATE APPLICATION 150°.
    D. CLEAR WATER RINSE.
    E. INHIBITED RINSE TO SEAL PHOSPHATED SURFACES 120°.

    FINISHED WITH AN ELECTROSTATICALLY APPLIED DRY POLYESTER POWDER COATING THEN BAKED @ 380° TO CURE.
11. CONCRETE FOUNDATIONS INCLUDING EXCAVATION AND BACKFILL, CONCRETE, AND ANCHOR BOLTS, COMPLETE IN PLACE, WILL BE CONSIDERED INCIDENTAL TO THE METER PEDESTAL. ITEM # 706200

CONSTRUCTION MATERIALS AND FINISH

- ☒ 12 GA HD GALV STEEL ☒ POWDER COATED _____
- ☐ 14 GA #304 S/S SHEET ☐ POWDER COATED COLOR _____ ☐ NATURAL
- ☐ 0.125" ALUMINUM SHEET ☐ POWDER COATED COLOR _____ ☐ NATURAL ☐ ANODIZED

POWDER COAT COLORS

- ☒ WHITE
- ☐ MINT GREEN
- ☐ CAMEL
- ☐ RANCH GREEN
- ☐ OTHER _____

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
WORK COMPLETED DATE
ACCEPTANCE BY
ACCEPTANCE DATE
VERIFICATION BY
VERIFICATION DATE
DRAWING CHANGED BY
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL
CHRIS E. BALL 12133 REGISTERED PROFESSIONAL ENGINEER
NEW MEXICO 11-24-96

NO. DATE REMARKS BY

DESIGN
DESIGNED BY RLB DATE
DRAWN BY DS, DS DATE
CHECKED BY CP, RR DATE

FOR INFORMATION ONLY

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Albuquerque, NM 87109 – (505) 881-5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER
SIGNAL SYSTEM EXPANSION
PHASE THREE A
METER PEDESTAL DETAILS

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

APPROVED OCT - 7 1996 DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 | MAP NO. | SHEET 3-15

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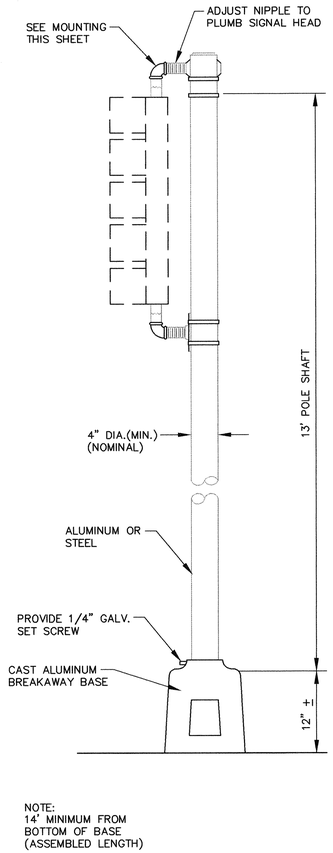
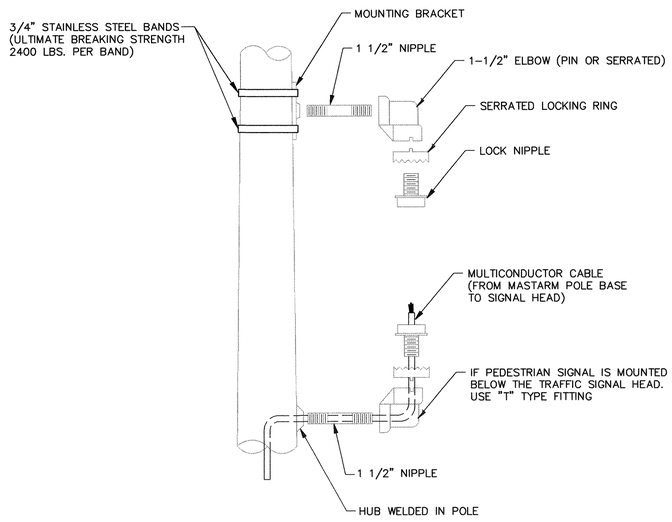


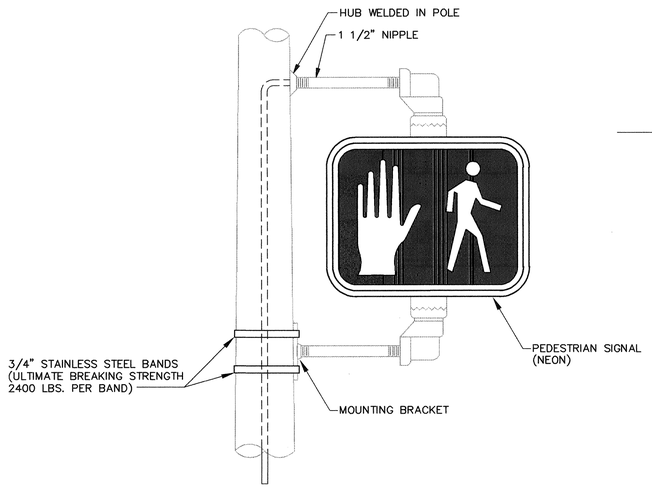
NOTE:
14' MINIMUM FROM BOTTOM OF BASE (ASSEMBLED LENGTH)

TYPE I
PEDESTAL POLE

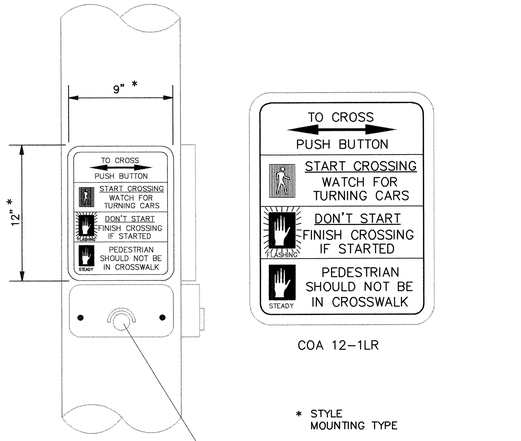


SIDE VIEW

MOUNTING DETAIL
(SIDE OF SHAFT)



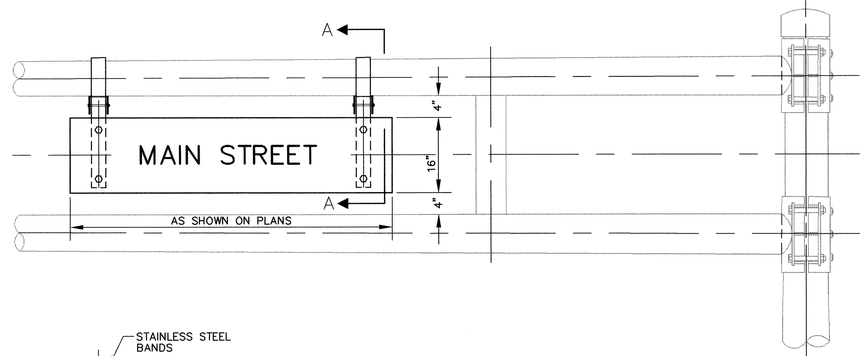
PEDESTRIAN SIGNAL

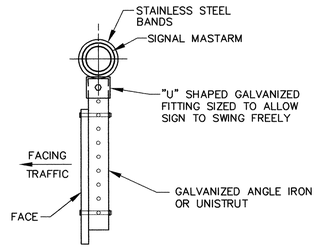


COA 12-1LR

* STYLE
MOUNTING TYPE

PEDESTRIAN PUSH BUTTON DETAIL





SECTION "A-A"

NOTES:

1. STREET NAME SIGNS REQUIRED AS SHOWN ON SIGN PLAN SHEETS.
2. SIGN SHALL BE 16" WIDE WITH 8" SERIES "C" LETTERS UP TO 12 SQUARE FEET TOTAL AREA AND SHALL HAVE HIGH INTENSITY REFLECTIVE LEGEND, BORDER AND BACKGROUND. COLORS: WHITE ON GREEN, SIGN PANELS SHALL BE SINGLE SHEET 6061-T6 ALUMINUM .120 MINIMUM THICKNESS.

STREET NAME SIGN DETAIL

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881-3357

AS BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY
INSPECTORS
FIELD CHANGES BY — DATE
FIELD TIES BY — DATE
DRAWING CORRECTION BY — DATE
CORRECTED BY
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
CHRISTOPHER S. BACA — 12133 — REGISTERED PROFESSIONAL ENGINEER — 10-22-96

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY RLB — DATE
DRAWN BY DS, DS — DATE
CHECKED BY CP, RR — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
TRAFFIC SIGNAL PEDESTAL POLE DETAILS

DESIGN REVIEW COMMITTEE — APPROVED — OCT - 7 1996 — DESIGN REVIEW COMMITTEE
CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3-16

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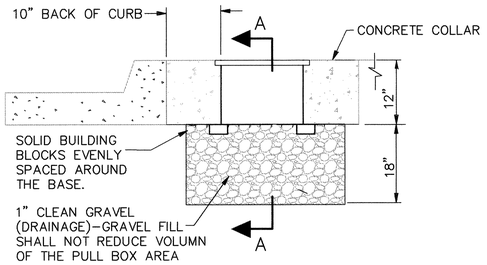
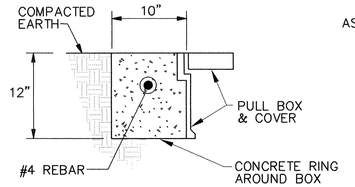
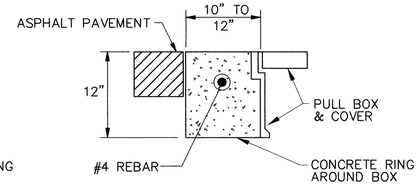


TYPICAL PULLBOX INSTALLATION

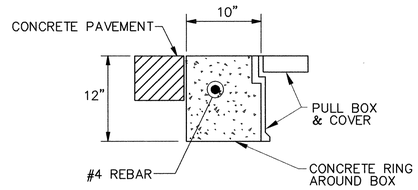
NOTE: SEE "CONCRETE COLLER DETAIL"



IN COMPACTED EARTH



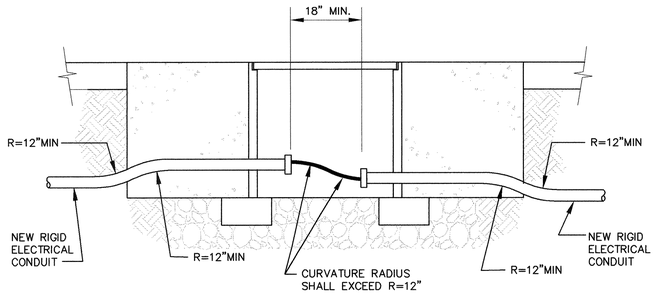
IN ASPHALT PAVEMENTS



IN CONCRETE PAVEMENTS

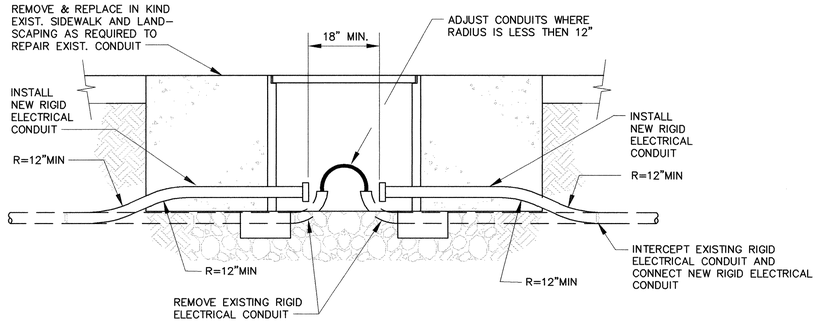
CONCRETE COLLAR DETAIL

NOTE: THE CONCRETE COLLAR FOR THE PULL BOXES WILL BE CONSIDERED INCIDENTAL TO THE PULL BOX BID ITEM.



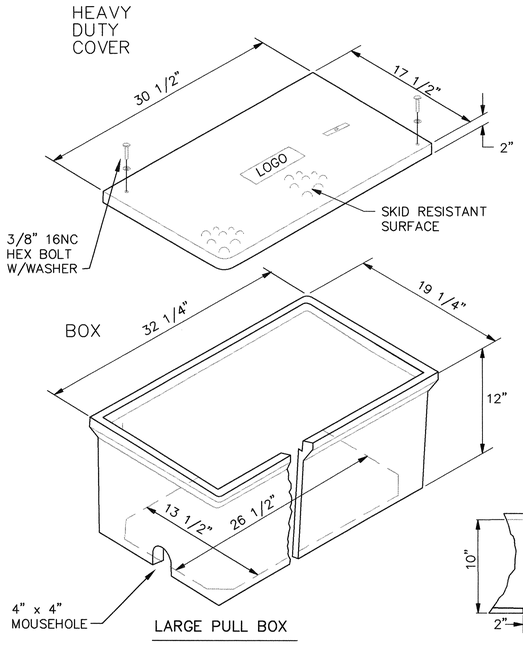
TRAFFIC SIGNAL PULL BOX (TYPICAL)

NEW CONDUIT INSTALLATION

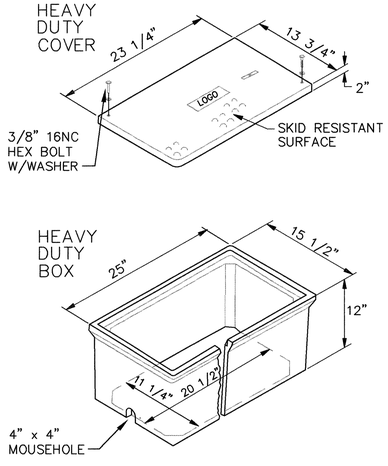


TRAFFIC SIGNAL PULL BOX (TYPICAL)

RETROFIT INSTALLATION



LARGE PULL BOX



STANDARD PULL BOX

PULL BOX DETAILS

NOTES FOR HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVERS

1. MATERIAL TO BE AN AGGREGATE CONSISTING OF SAND AND GRAVEL BOUND TOGETHER WITH A POLYMER AND REINFORCED WITH CONTINUOUS WOVEN GLASS STRANDS.. THE MATERIAL MUST HAVE THE FOLLOWING MECHANICAL PROPERTIES: COMPRESSIVE STRENGTH – 11,000 PSI, TENSILE STRENGTH – 1700 PSI, FLEXURAL STRENGTH – 7500 PSI.
2. ALL PULL BOX COVERS SHALL BE HEAVY DUTY REINFORCED POLYMER MORTAR, HAVING A SERVICE LOAD OF 22,568 LBS. OVER A 10" SQUARE (225 PSI).
3. PULL BOX TYPE AND LOGO SHALL BE APPROVED BY THE PROJECT MANAGER.
4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE NOMINAL DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER.
5. ELECTRICAL PULL BOX (STANDARD) SHALL BE A HEAVY DUTY REINFORCED POLYMER MORTAR PULL BOX AND COVER MEASURING 13 3/4" X 23 1/4" X 2".

AS BUILT INFORMATION
CONTRACTOR DATE
WORK STARTED BY DATE
WORK COMPLETED BY DATE
ACCEPTANCE BY DATE
CERTIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES BY DATE
NO.

ENGINEER'S SEAL
CHASE E. EVANS NEW MEXICO 12133 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN DATE
DESIGNED BY RLB
DRAWN BY DS, DS DATE
CHECKED BY CP, RR DATE

FOR INFORMATION ONLY

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
PULLBOX DETAILS

DESIGN REVIEW COMMITTEE & CITY ENGINEER APPROVAL

APPROVED
OCT – 7 1996
DESIGN REVIEW COMMITTEE

	MO./DAY/YR.	MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–17

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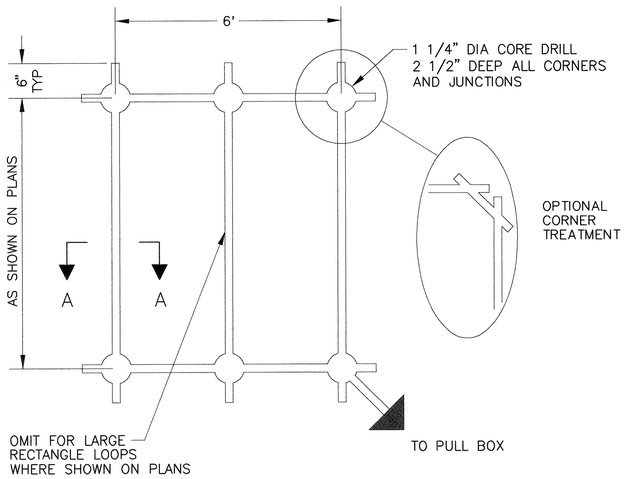
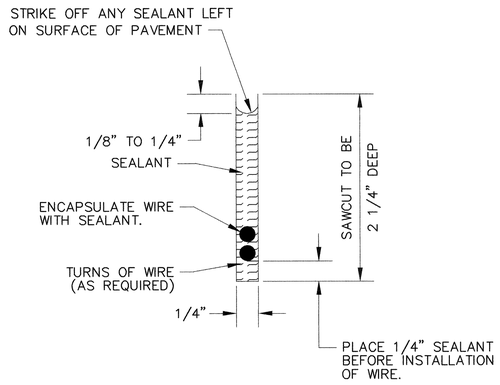
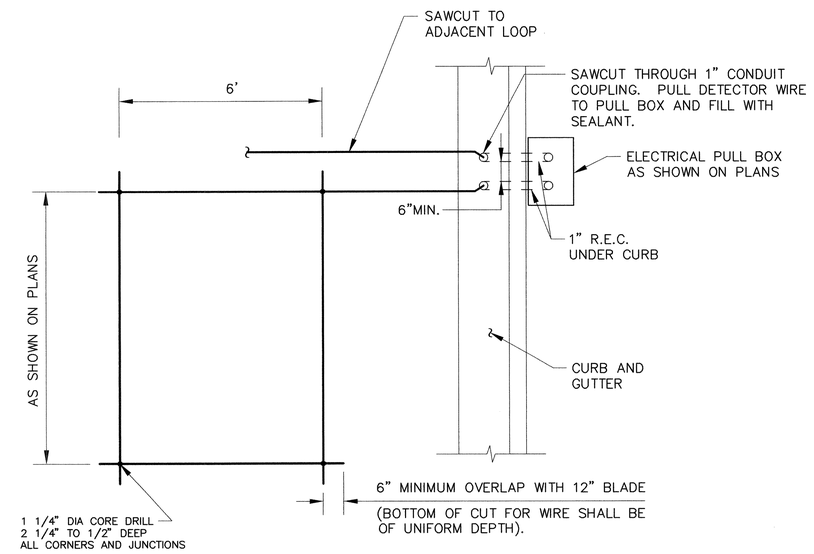


PLAN VIEW

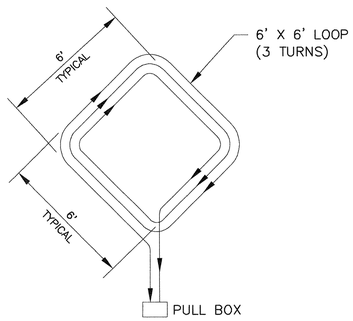


SECTION "A–A"

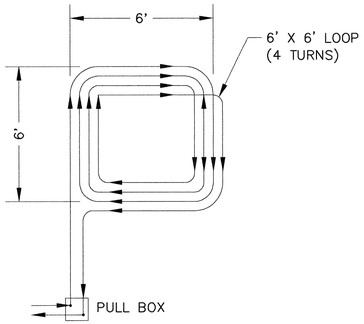
TYPICAL ROADWAY LOOP SAWCUT DETAIL



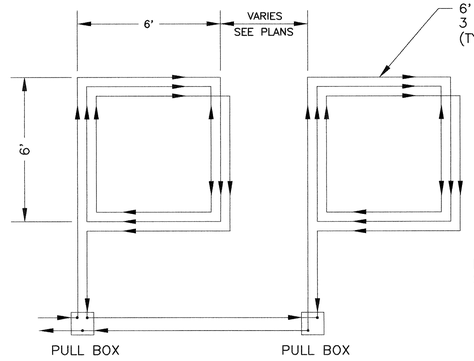
PLAN VIEW



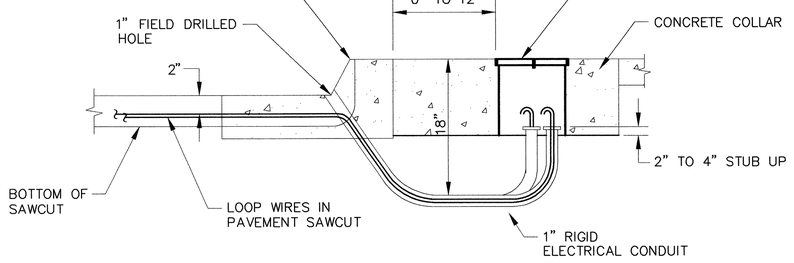
EXTEND CALL LOOP WIRING DETAIL



SYSTEM LOOP WIRING DETAIL

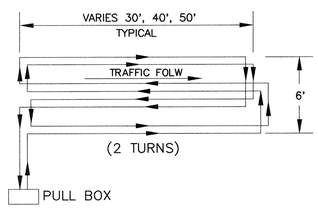


SERIES LOOP WIRING DETAIL

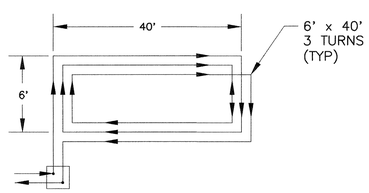


SECTION

LOOP WIRE TERMINATION DETAILS



QUADRUPOLE LOOP WIRING DETAIL



LARGE RECTANGULAR LOOP WIRING DETAIL

TYPICAL LOOP WIRE PLACEMENT DETAILS

NOTES

1. WIRES MUST BE WOUND IN THE DIRECTION SHOWN.
2. QUADRUPOLE LOOPS SHALL HAVE 2 TURNS.
3. EXTEND CALL LOOPS SHALL HAVE 3 TURNS.
4. SYSTEM DETECTOR LOOPS SHALL HAVE 4 TURNS.
5. LARGE RECTANGLE LOOPS SHALL HAVE 3 TURNS.

FOR INFORMATION ONLY

LOOP DETECTOR NOTES

1. ALL LOOP DETECTOR WIRE SHALL BE NO. 14 AWG STRANDED COPPER WIRE WITH CROSSLINKED POLYETHYLENE INSULATION (INDUSTRY TYPE XHHW) CONFORMING TO THE REQUIREMENTS OF I.M.S.A. SPECIFICATIONS NO. 51–3 1984. BACKER ROD SHALL NOT BE USED IN THE INSTALLATION OF LOOP (EXCEPT PIECES LESS THAN 12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAWCUT CORNERS TO HOLD THE WIRE. A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAWCUT BEFORE PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT. HOT–MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT MANUFACTURED BY CRAFCO SHALL BE AN ACCEPTABLE SEALANT ALTERNATE.
2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY. EACH CABLE BY LOOP AND PHASE NUMBER.
3. GROUND LOOP LEAD IN CABLE SHIELDING IN CONTROL CABINET.
4. SEPARATE 1" RIGID ELECTRICAL CONDUITS ARE REQUIRED FOR EACH PAIR OF DETECTOR WIRES.

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY — DATE
ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
CORRECTED BY — DATE

BENCH MARKS
STATION G–7A: LOCATED IN THE CENTER OF GIBSON BLVD. APPROX. 0.8 MI. EAST OF I–25. THE STATION IS A 3–1/4" ALUMINUM TABLET SET IN CONCRETE 0.1' ABOVE THE GROUND. THE STATION IS STAMPED "ACS, G–7A, 1984"
PLANE COORDINATES ARE: X= 392629.11' Y= 1476657.56'
ELEVATION OF STATION IS 5320.093 ft. OR 1621.564 meters
RECORDED BY — DATE
NO.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
LOUIS E. BACA 12133 REGISTERED PROFESSIONAL ENGINEER

NO. | DATE | REMARKS | BY
DESIGN — DATE
DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER
SIGNAL SYSTEM EXPANSION
PHASE THREE A
TYPICAL LOOP WIRE DETAILS

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.
APPROVED OCT – 7 1996 DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 | MAP NO. | SHEET 3–18

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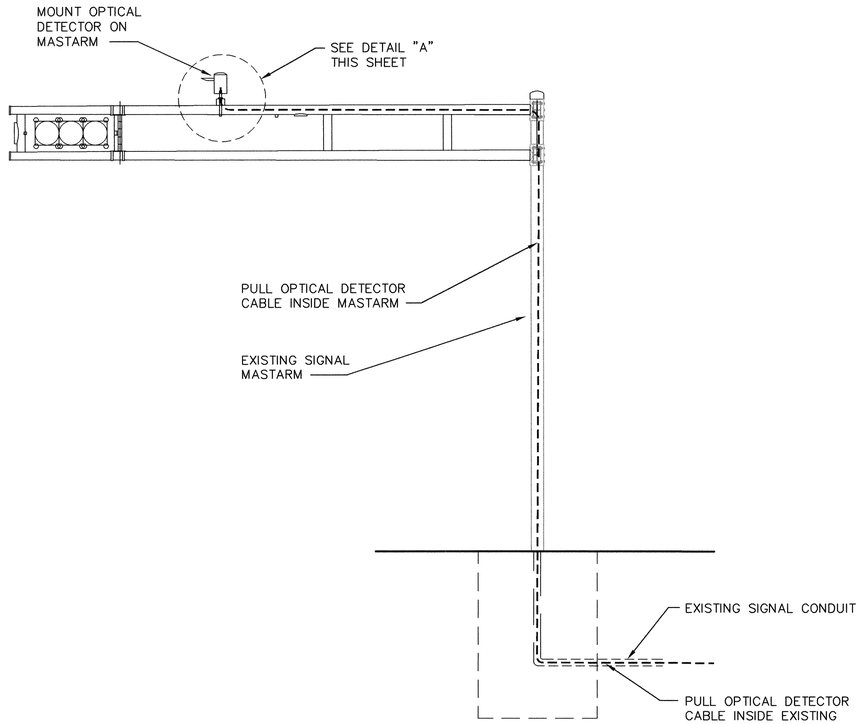
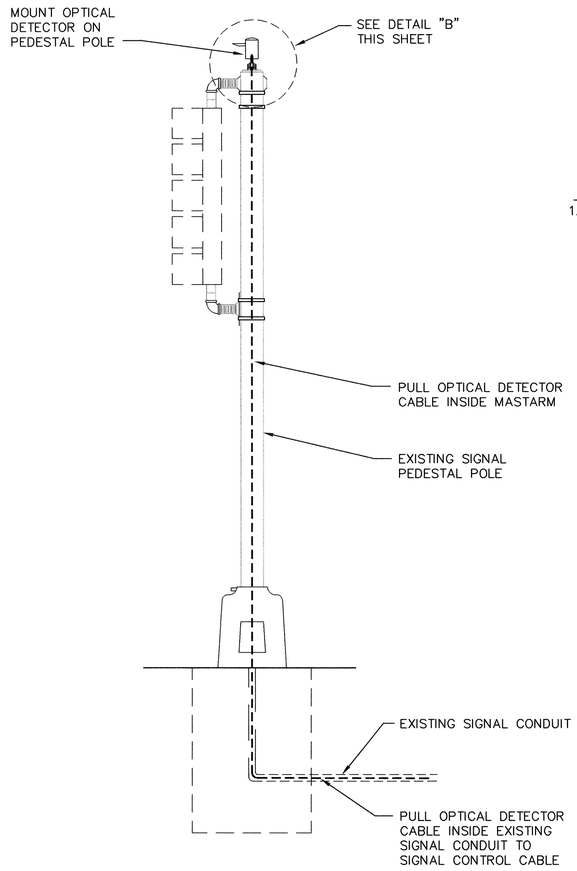


TYPICAL OPTICAL DETECTOR INSTALLATION – MASTARM

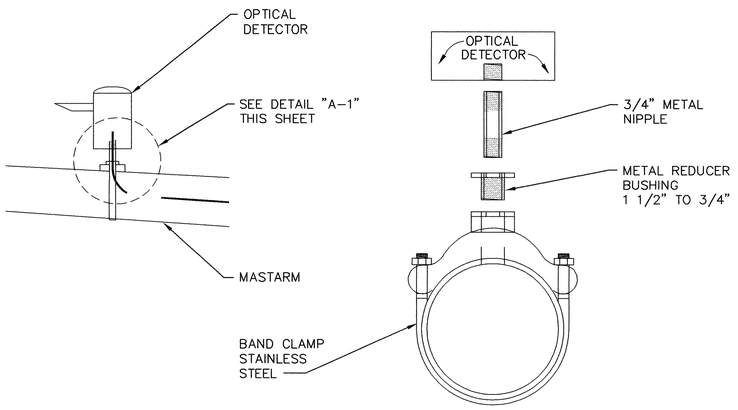


TYPICAL OPTICAL DETECTOR INSTALLATION – PEDESTAL POLE

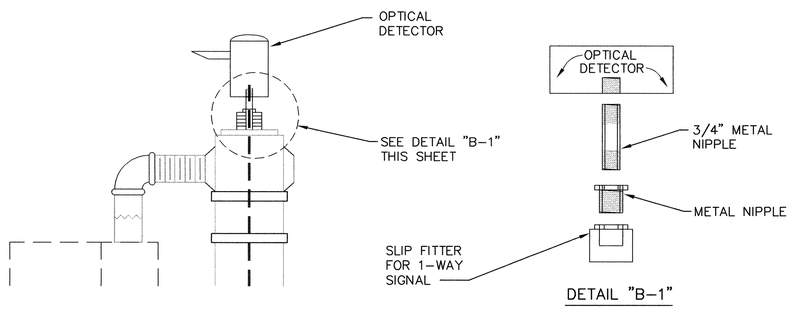
NOTE: OPTICAL DETECTOR SHALL ONLY BE MOUNTED ON PEDESTAL POLES WHEN THERE IS NO MASTARM.

NOTE:

1. ALL OPTICAL DETECTOR MOUNTING HARDWARE SHALL CONFORM TO OPTICAL DETECTOR MANUFACTURER'S REQUIREMENTS.



OPTICAL DETECTOR MOUNTING – DETAIL "A"



OPTICAL DETECTOR MOUNTING – DETAIL "B"

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AS BUILT INFORMATION
CONTRACTOR — DATE
INSPECTED BY — DATE
ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
DRAWING BY
MICRO-FILM INFORMATION — DATE
RECORDED BY
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
CHRIS E. BACA 12133 REGISTERED PROFESSIONAL ENGINEER 5-24-96

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY RLB — DATE
DRAWN BY DS, DS — DATE
CHECKED BY CP, RR — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
OPTICAL DETECTOR INSTALLATION DETAILS

APPROVED
OCT - 7 1996
DESIGN REVIEW COMMITTEE

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL — MO./DAY/YR. — MO./DAY/YR.

DRAWING NO. 5361.91 | MAP NO. | SHEET 3-19

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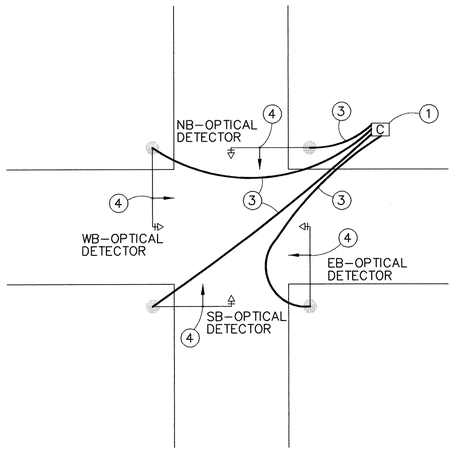
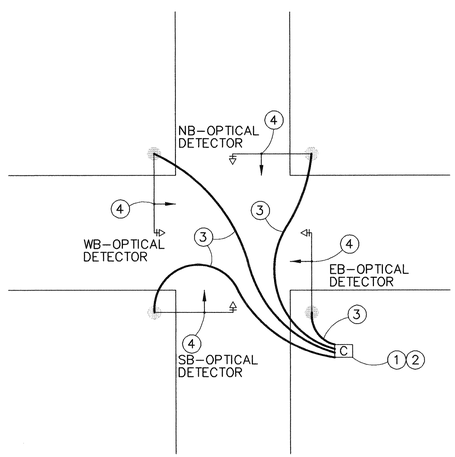
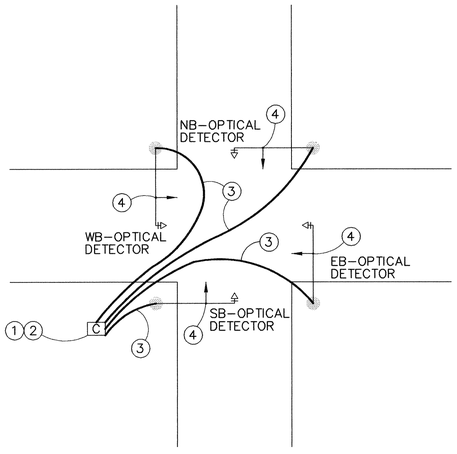


DETAIL EWNS #1 *
EAST–WEST NORTH–SOUTH DETECTION
CONTROLLER ON NE CORNER

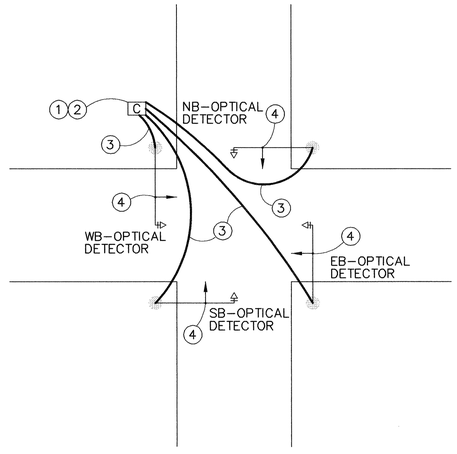


DETAIL EWNS #2 *
EAST–WEST NORTH–SOUTH DETECTION
CONTROLLER ON SE CORNER

NO SCALE



DETAIL EWNS #3 *
EAST–WEST NORTH–SOUTH DETECTION
CONTROLLER ON SW CORNER



DETAIL EWNS #4 *
EAST–WEST NORTH–SOUTH DETECTION
CONTROLLER ON NW CORNER

KEY NOTES

1. INSTALL PHASE SELECTOR RACK INSIDE EXISTING CONTROL CABINET
2. INSTALL PHASE SELECTOR MODULE (S) INSIDE EXISTING CONTROL CABINET
3. INSTALL OPTICAL DETECTOR CABLE IN EXISTING SIGNAL CONDUITS
4. INSTALL OPTICAL DETECTOR, SINGLE DIRECTION, SINGLE CHANNEL (ID/IC) ON EXISTING SIGNEL MASTARM

ESTIMATED LENGTH OF OPTICAL DETECTOR CABLE

DETAIL	ALL DIRECTIONS
EWNS #1	675
EWNS #2	675
EWNS #3	675
EWNS #4	675

* NOTE:
BOTH OPTICAL DETECTOR SHOWN MAY NOT BE REQUIRED. REFER TO PLANS FOR REQUIRED DETECTOR AT EACH INTERSECTION. IF ONLY ONE DETECTOR IS TO BE INSTALLED DURING THIS PHASE THEN WIRING IS ONLY REQUIRED TO THAT MASTARM.

ABBREVIATIONS

EB – EASTBOUND
WB – WESTBOUND
NB – NORTHBOUND
SB – SOUTHBOUND
NE – NORTHEAST
NW – NORTHWEST
SE – SOUTHEAST
SW – SOUTHWEST

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Albuquerque, NM 87109 – (505) 881-5357

AS BUILT INFORMATION
CONTRACTOR DATE
WORK PERFORMED BY DATE
INSPECTED BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS PREPARED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
CHARLES E. BAUMANN
NEW MEXICO
12133
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY RLB DATE
DRAWN BY DS, DS DATE
CHECKED BY CP, RR DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER
SIGNAL SYSTEM EXPANSION
PHASE THREE A
OPTICAL DETECTION PLAN

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

APPROVED
OCT - 7 1996
DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 | MAP NO. L15,16&17 | SHEET 3–20

TYPICAL EMERGENCY VEHICLE OPTICAL DETECTION PLAN (SCHEMATIC)

EAST–WEST NORTH–SOUTH

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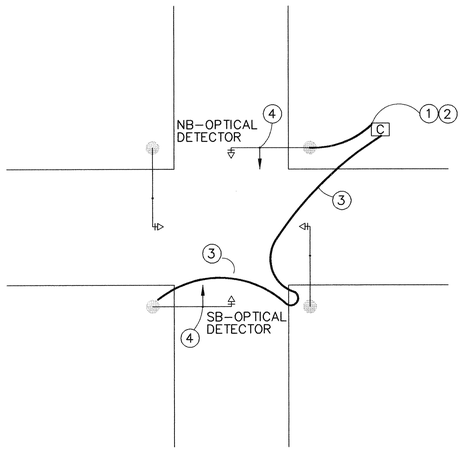
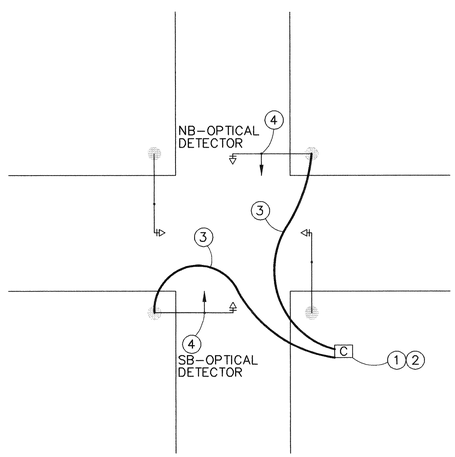
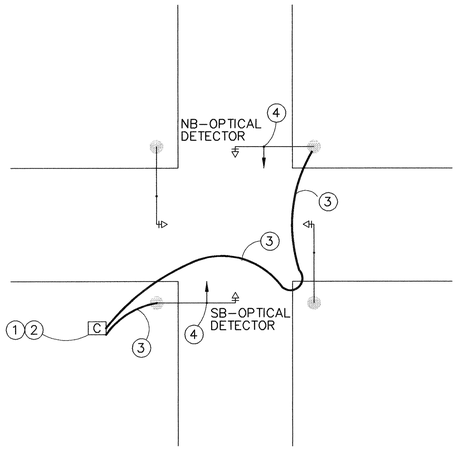


DETAIL NS #1 *
NORTH–SOUTH DETECTION
CONTROLLER ON NE CORNER

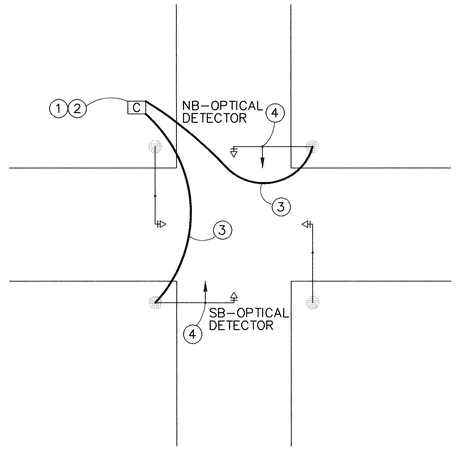


NO SCALE

DETAIL NS #2 *
NORTH–SOUTH DETECTION
CONTROLLER ON SE CORNER



DETAIL NS #3 *
NORTH–SOUTH DETECTION
CONTROLLER ON SW CORNER



DETAIL NS #4 *
NORTH–SOUTH DETECTION
CONTROLLER ON NW CORNER

KEY NOTES

1. INSTALL PHASE SELECTOR RACK INSIDE EXISTING CONTROL CABINET
2. INSTALL PHASE SELECTOR MODULE (S) INSIDE EXISTING CONTROL CABINET
3. INSTALL OPTICAL DETECTOR CABLE IN EXISTING SIGNAL CONDUITS
4. INSTALL OPTICAL DETECTOR, SINGLE DIRECTION, SINGLE CHANNEL (ID/IC) ON EXISTING SIGNEL MASTARM

ESTIMATED LENGTH OF OPTICAL DETECTOR CABLE

DETAIL	NB	SB	BOTH
NS #1	100	300	400
NS #2	150	150	300
NS #3	300	100	400
NS #4	150	150	300

* NOTE:
BOTH OPTICAL DETECTOR SHOWN MAY NOT BE REQUIRED. REFER TO PLANS FOR REQUIRED DETECTOR AT EACH INTERSECTION. IF ONLY ONE DETECTOR IS TO BE INSTALLED DURING THIS PHASE THEN WIRING IS ONLY REQUIRED TO THAT MASTARM.

ABBREVIATIONS

EB – EASTBOUND
WB – WESTBOUND
NB – NORTHBOUND
SB – SOUTHBOUND
NE – NORTHEAST
NW – NORTHWEST
SE – SOUTHEAST
SW – SOUTHWEST

TYPICAL EMERGENCY VEHICLE OPTICAL DETECTION PLAN (SCHEMATIC)

EAST–WEST NORTH–SOUTH

FOR INFORMATION ONLY

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Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
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AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
WORK COMPLETED BY DATE
ACCEPTANCE BY DATE
VERIFICATION BY DATE
CORRECTED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
CHRIS E. BACA NEW MEXICO 12133 REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY RLB DATE
DRAWN BY DS, DS DATE
CHECKED BY CP, RR DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
OPTICAL DETECTION PLAN NORTH–SOUTH

DESIGN REVIEW COMMITTEE CITY ENGINEER APPROVAL
APPROVED OCT – 7 1996 DESIGN REVIEW COMMITTEE
MO./DAY/YR. MO./DAY/YR.

DRAWING NO. 5361.91
MAP NO. L15,16&17
SHEET 3–21

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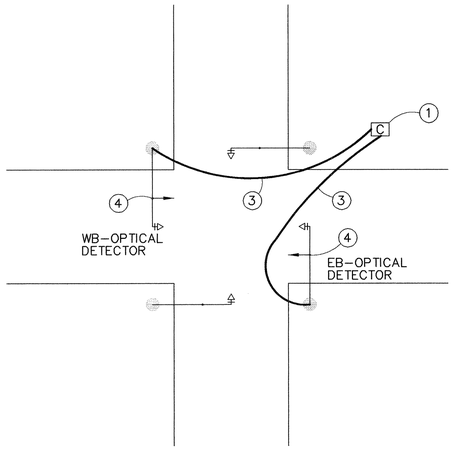
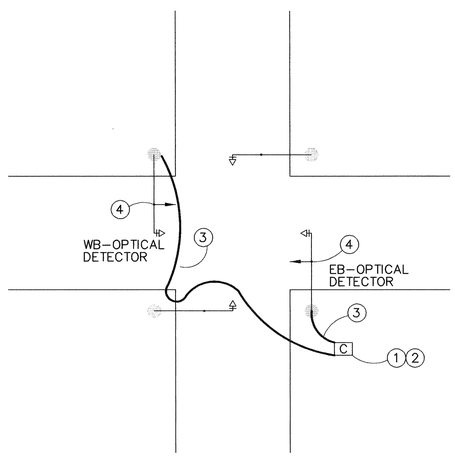
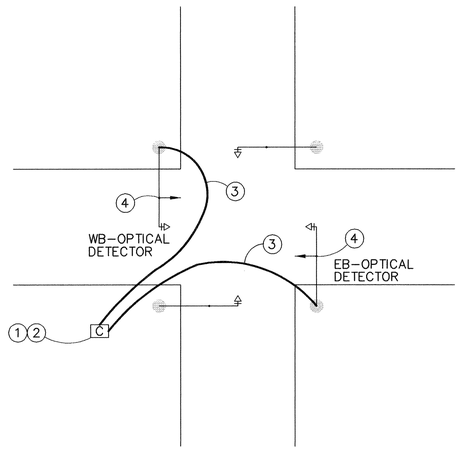


DETAIL EW #1 *
EAST–WEST DETECTION
CONTROLLER ON NE CORNER

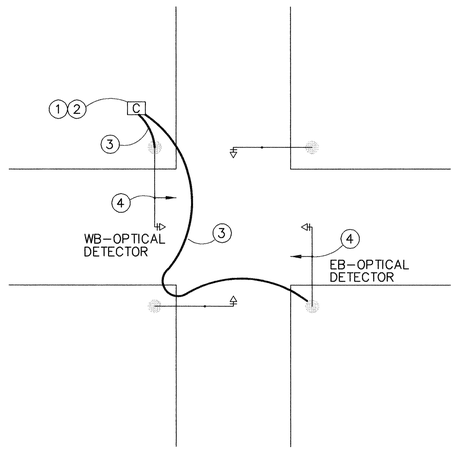


DETAIL EW #2 *
EAST–WEST DETECTION
CONTROLLER ON SE CORNER

NO SCALE



DETAIL EW #3 *
EAST–WEST DETECTION
CONTROLLER ON SW CORNER



DETAIL EW #4 *
EAST–WEST DETECTION
CONTROLLER ON NW CORNER

KEY NOTES

1. INSTALL PHASE SELECTOR RACK INSIDE EXISTING CONTROL CABINET
2. INSTALL PHASE SELECTOR MODULE (S) INSIDE EXISTING CONTROL CABINET
3. INSTALL OPTICAL DETECTOR CABLE IN EXISTING SIGNAL CONDUITS
4. INSTALL OPTICAL DETECTOR, SINGLE DIRECTION, SINGLE CHANNEL (ID/IC) ON EXISTING SIGNEL MASTARM

ESTIMATED LENGTH OF OPTICAL DETECTOR CABLE

DETAIL	EB	WB	BOTH
EW #1	150	150	300
EW #2	100	300	400
EW #3	150	150	300
EW #4	300	100	400

* NOTE:
BOTH OPTICAL DETECTOR SHOWN MAY NOT BE REQUIRED. REFER TO PLANS FOR REQUIRED DETECTOR AT EACH INTERSECTION. IF ONLY ONE DETECTOR IS TO BE INSTALLED DURING THIS PHASE THEN WIRING IS ONLY REQUIRED TO THAT MASTARM.

ABBREVIATIONS

EB – EASTBOUND
WB – WESTBOUND
NB – NORTHBOUND
SB – SOUTHBOUND
NE – NORTHEAST
NW – NORTHWEST
SE – SOUTHEAST
SW – SOUTHWEST

FOR INFORMATION ONLY

TYPICAL EMERGENCY VEHICLE OPTICAL DETECTION PLAN (SCHEMATIC)

EAST–WEST NORTH–SOUTH

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
WORK COMPLETED BY DATE
ACCEPTANCE BY DATE
VERIFICATION BY DATE
CORRECTED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
CHRIS E. ANGEL
12133
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY RLB DATE
DRAWN BY DS, DS DATE
CHECKED BY CP, RR DATE

AVID ENGINEERING, INC.
Civil • Structural • Transportation
5801 Osuna Rd. NE – Suite 200
Albuquerque, NM 87109 – (505) 881–5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
OPTICAL DETECTION PLAN

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

APPROVED
OCT - 7 1996
DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 | MAP NO. L15,16&17 | SHEET 3–22

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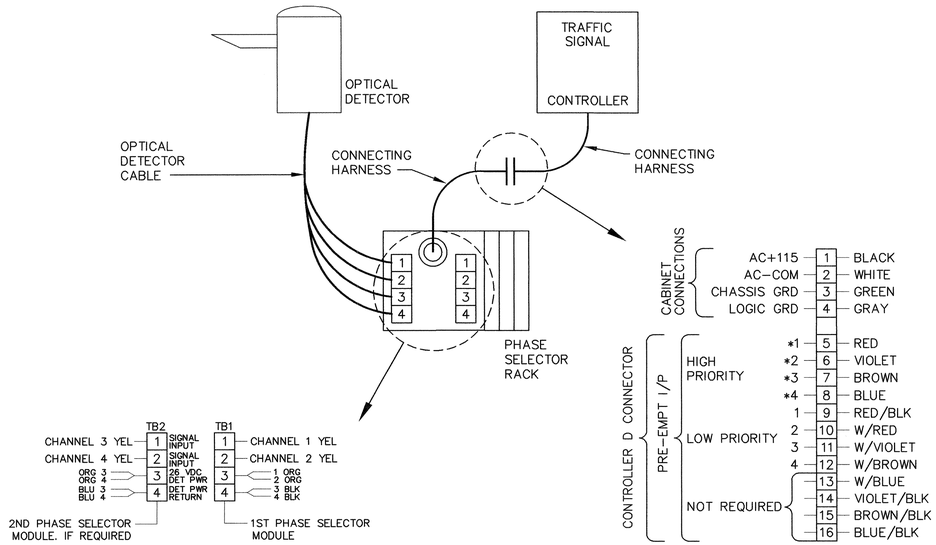
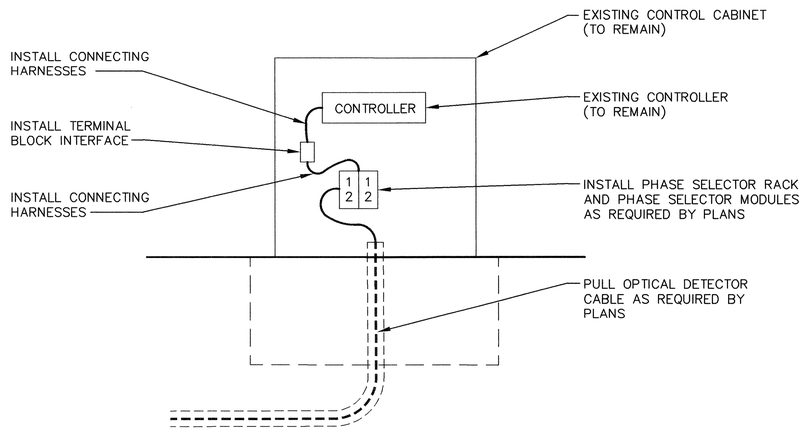


TERMINAL BLOCK INTERFACE

OPTICAL DETECTION SYSTEM SCHEMATIC



TYPICAL OPTICAL DETECTOR INSTALLATION INSIDE SIGNAL CONTROL CABINET

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AS BUILT INFORMATION
CONTRACTOR
STARTED BY DATE
ACCEPTANCE BY DATE
FINAL INSPECTION BY DATE
DRAWING CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
CHARLES E. BACA
NEW MEXICO
12133
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY

DESIGN
DESIGNED BY RLB DATE
DRAWN BY DS, DS DATE
CHECKED BY CP, RR DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION
PHASE THREE A
OPTICAL DETECTOR WIRING DETAIL

DESIGN REVIEW COMMITTEE — CITY ENGINEER APPROVAL

OCT - 7 1996
DESIGN REVIEW COMMITTEE

MO./DAY/YR.	MO./DAY/YR.

DRAWING NO. 5361.91
MAP NO. L15,16&17
SHEET 3–23

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CITY OF ALBUQUERQUE SPECIAL TRAFFIC CONTROL REQUIREMENTS

PROJECT REQUIREMENTS

1. SEPARATE PERMITS WILL BE REQUIRED FOR EVERY LANE CLOSURE. EACH PERMIT SHALL BE CLEARED BY THE CONSTRUCTION COORDINATION DIVISION OF THE CITY OF ALBUQUERQUE FOR INTERFERENCE WITH OTHER CONSTRUCTION PROJECTS. THE CONTRACTOR SHALL ALLOW ENOUGH TIME BETWEEN HIS PERMIT REQUEST AND CONSTRUCTION BEFORE SCHEDULING CREWS AND EQUIPMENT.

2. ALL LANES INCLUDING PARKING LANES SHALL BE OPEN FROM 6:30 AM TO 6:30 PM, MONDAY THROUGH FRIDAY, UNLESS APPROVED OTHERWISE BY THE CITY'S CONSTRUCTION COORDINATION DIVISION.

3. CONTRACTOR SHALL COORDINATE WITH THE CITY'S CONSTRUCTION DIVISION TO INSURE THAT PROJECT MONITORING PERSONNEL ARE ON DUTY DURING THE PROPOSED WORK SCHEDULE.

4. THE CONTRACTOR SHALL WORK ONLY AT NIGHT AND ON SATURDAYS, SUNDAYS, AND HOLIDAYS (EXCEPT WHEN RESTRICTED BY SPECIAL EVENTS) AS DIRECTED BY THE CITY'S CONSTRUCTION COORDINATION DIVISION.

5. ALL EXCAVATIONS ARE TO BE BACKFILLED, FINISHED, PLATED, OR PATCHED AND OPEN TO VEHICULAR AND PEDESTRIAN TRAFFIC FROM 6:30 AM TO 6:30 PM, MONDAY THROUGH FRIDAY AND DURING SPECIAL EVENTS AS DIRECTED BY THE CITY'S CONSTRUCTION COORDINATION DIVISION. BARRICADING OF CONSTRUCTION SITES SHALL BE PLACED NO EARLIER THAN ONE HOUR PRIOR TO STARTING WORK AND SHALL BE REMOVED IMMEDIATELY UPON COMPLETION OF THE WORK. THE CONTRACTOR SHALL SCHEDULE A BARRICADE PICKUP TO COINCIDE WITH THE COMPLETION OF CLEARING THE ROADWAY.

6. THE CONTRACTOR SHALL USE HIGH EARLY STRENGTH CONCRETE AS REQUIRED TO CONFORM TO THESE TRAFFIC CONTROL REQUIREMENTS. MIX DESIGNS FOR HIGH EARLY STRENGTH CONCRETE SHALL BE APPROVED IN ADVANCE OF ANTICIPATED USE.

7. WORK AREAS SHALL BE LIMITED TO A MAXIMUM OF 5 INTERSECTIONS AND 5 CONNECTING BLOCKS AT ONE TIME. WORK SHALL BE SCHEDULED TO MINIMIZE DISRUPTION AND CONTINUE OPERATIONS TO A SMALL AREA.

8. THE CONTRACTOR SHALL REVIEW HIS OPERATIONAL PRACTICES AND PROCEDURES ON A DAILY BASIS TO EXPEDITE THE WORK AND CLEAR THE RIGHT-OF-WAY AS SOON AS POSSIBLE.

9. THE CONTRACTOR SHALL PREPARE A DETAILED CRITICAL PATH PROJECT SCHEDULE FOR THE PROJECT BEFORE BEGINNING CONSTRUCTION. THIS SCHEDULE SHALL BE SUBMITTED TO THE PROJECT MANAGER FOR REVIEW, COMMENTS, AND APPROVAL. THE SCHEDULE WILL BE USED FOR ESTABLISHING MAJOR CONSTRUCTION OPERATIONS AND FOR DETERMINING THE PROGRESS OF THE WORK. SHOULD IT BECOME APPARENT TO THE PROJECT MANAGER OR THE CONTRACTOR THAT THE CONTRACTOR WILL NOT BE ABLE TO MEET THE REQUIREMENTS OF THE SCHEDULE, THE CONTRACTOR SHALL SUBMIT A REVISED SCHEDULE REFLECTING THE ACTUAL AUTHORIZED TIME LEFT FOR REVIEW AND APPROVAL. REQUESTS FOR TIME EXTENSIONS SUBMITTED BY THE CONTRACTOR WILL BE COMPARED TO THE CRITICAL PATH AND APPROVED OR DENIED ON THIS BASIS. THE CONTRACTOR SHALL UPDATE THE SCHEDULE MONTHLY AND SUBMIT WITH THE MONTHLY PAYMENT REQUEST.

10. THE CONTRACTOR'S COSTS TO COMPLY WITH THE "SPECIAL CITY TRAFFIC CONTROL REQUIREMENTS" INCLUDING, BUT NOT LIMITED TO, ADDITIONAL COORDINATION, PREPARATION OF CRITICAL PATH PROJECT SCHEDULE, SCHEDULING OF WORK, WORKING DURING OFF-HOURS, PLATING, PATCHING, USE OF HIGH-EARLY STRENGTH CONCRETE, REMOVING AND RESETTING OF TRAFFIC CONTROL DEVICES, ETC. SHALL BE INCLUDED IN THE LUMP SUM BID FOR ITEM 618100 – SPECIAL CITY TRAFFIC CONTROL REQUIREMENTS.

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS

AS BUILT INFORMATION
CONTRACTOR
WORK BEGUN DATE
STAKED BY
WORK DONE DATE
ACCEPTANCE BY
CERTIFICATION BY DATE
DRAWING
COMPILED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
CHARLES E. BAKER
NEW MEXICO
12133
REGISTERED PROFESSIONAL ENGINEER
9-23-96

NO. | DATE | REMARKS | BY
DESIGN | DATE
DESIGNED BY | DATE
DRAWN BY | DATE
CHECKED BY | DATE

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Albuquerque, NM 87109 – (505) 881-5357

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SIGNAL SYSTEM EXPANSION

SPECIAL TRAFFIC CONTROL REQUIREMENTS

DESIGN REVIEW COMMITTEE | CITY ENGINEER APPROVAL | MO./DAY/YR. | MO./DAY/YR.
APPROVED
OCT - 7 1996
DESIGN REVIEW COMMITTEE

DRAWING NO. 5361.91 | MAP NO. | SHEET 4-1

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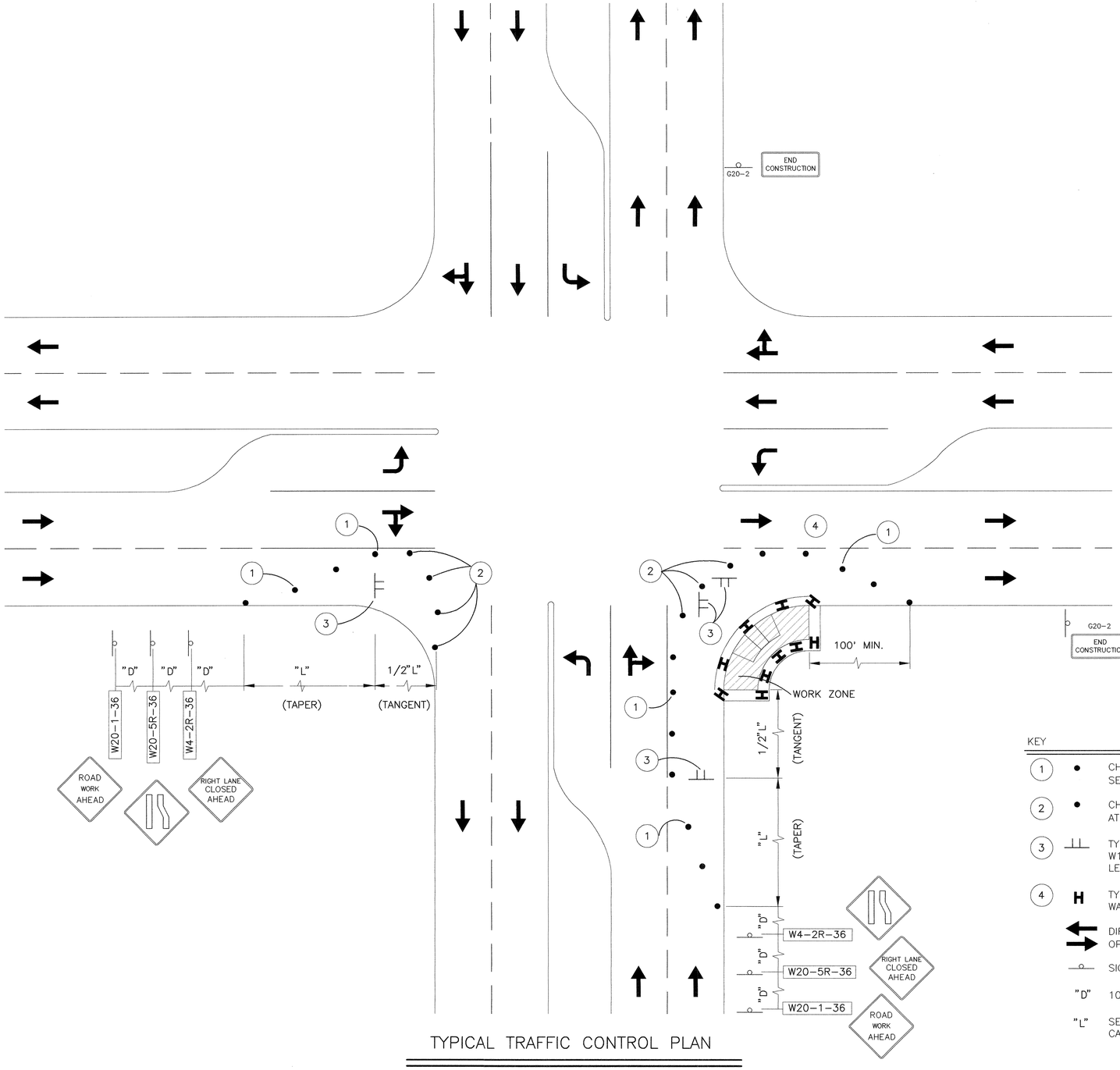

TYPICAL TRAFFIC CONTROL PLAN

FOR INSTALLATION OF WHEELCHAIR RAMPS AND TRAFFIC SIGNAL CONTROL EQUIPMENT

FOR INFORMATION OF CONTRACTOR ONLY

NOTES:

A. INSTALL NEW WHEELCHAIR RAMPS AND TRAFFIC SIGNAL EQUIPMENT AT INTERSECTIONS AS APPROVED BY THE PROJECT MANAGER. CONTRACTOR IS ALLOWED A MAXIMUM OF FOUR(4) SETS OF ADVANCE WARNING SIGNS AND BARRICADES AS SHOWN IN THE TYPICAL TRAFFIC CONTROL PLAN ON THIS SHEET. ADDITIONAL SETS MAY BE USED BY THE CONTRACTOR AT HIS OWN EXPENSE.

B. WHEELCHAIR RAMP CONSTRUCTION SHALL NOT BE PERMITTED AT MORE THAN ONE CORNER AT A TIME PER INTERSECTION UNLESS APPROVED OTHER BY THE PROJECT MANAGER.

C. TYPICAL RIGHT AND LEFT LANE CLOSURE, AS SHOWN ON SHEET 4-4, SHALL BE USED TO COMPLETE INTERCONNECT INSTALLATION BETWEEN INTER-SECTIONS. LENGTH OF WORK AREA SHALL BE NO LONGER THAN ONE BLOCK. CONTRACTOR IS ALLOWED A MAXIMUM OF TWO(2) SETS FOR RIGHT LANE CLOSURES AND TWO(2)SETS FOR LEFT LANE CLOSURES. ADDITIONAL SETS MAY BE USED BY THE CONTRACTOR AT HIS OWN EXPENSE.

D. ESTIMATED QUANTITIES ARE BASED ON AN ESTIMATED POSTED SPEED OF 25 MPH.

C. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS ON ALL SIDEWALKS AND INTERSECTION CORNERS IN SO FAR AS IT IS POSSIBLE. IF ACCESS CANNOT BE MAINTAINED. THE CONTRACTOR SHALL COORDINATE WITH THE PROJECT MANAGER TO ESTABLISH PROPER WARNING SIGNS AND DETOURS FOR PEDESTRIANS.

LEGEND

KEY		
1	•	CHANNELIZATION DEVICE, TYPE "H" SEE SHEET 4-3 FOR SPACING
2	•	CHANNELIZATION DEVICE, TYPE "H" AT 10' SPACING AROUND CORNERS
3	⊥⊥	TYPE III BARRICADE W/R11-2a & W1-6L SIGNS (LANE CLOSED AND LEFT ARROW)
4	H	TYPE I BARRICADE WITH WARNING FLAGGING
	⇄	DIRECTIONAL ARROWS INDICATE LANES OPEN TO TRAFFIC THIS PHASE
	⊸	SIGN
	"D"	10 X POSTED SPEED LIMIT
	"L"	SEE TAPER LENGTH CALCULATIONS SHEET 4-3

FOR INFORMATION ONLY

NOT TO SCALE

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SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

BENCH MARKS

AS BUILT INFORMATION

CONTRACTOR
DRAWN BY DATE
REVIEWED BY
ACCEPTANCE BY DATE
FIELD LOCATION BY
CHECKED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		DESIGN	
		DESIGNED BY RLB	DATE
		DRAWN BY DS, DS	DATE
		CHECKED BY CP, RR	DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

DOWNTOWN/CITYWIDE TRAFFIC COMPUTER SYSTEM EXPANSION
PHASE THREE A

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
OCT - 7 1996 DESIGN REVIEW COMMITTEE			

DRAWING NO.	MAP NO.	SHEET
5361.91		4-2

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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 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 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.

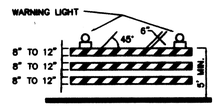
22. CONTRACTOR SHALL AT ALL TIMES COMPLY WITH THE FOLLOWING:
    1. STANDARDS AND REQUIREMENTS SET FORTH IN THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
    2. THE CITY OF ALBUQUERQUE TRAFFIC CODE, LATEST EDITION.
    3. SECTION 19 OF THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS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

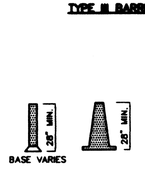
24. ALL TRAFFIC CONTROL DEVICES SHALL BE KEPT IN NEW-CLEAN CONDITION. WASHING OF EQUIPMENT IS INCIDENTAL TO IT'S PLACEMENT AND MAINTENANCE.

25. TRAFFIC CONTROL STANDARDS APPLY ONLY WHERE THE CONSTRUCTION TRAFFIC CONTROL PLANS ARE NOT SPECIFIC.

26. ADVANCE WARNING SIGNS SHALL BE 36"x36" WITH SUPER ENGINEERING GRADE SHEETING OR BETTER.



TYPE III BARRICADE



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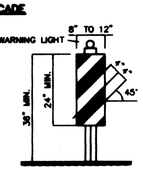
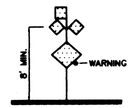


VERTICAL PANEL

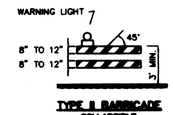


HIGH LEVEL WARNING DEVICE

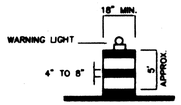
LEGEND

- WORK AREA
- • BARRICADE – TYPE I, TYPE II, OR BARREL
- ⊢ BARRICADE – TYPE III
- X VERTICAL PANEL
- WARNING SIGN
- D DISTANCE BETWEEN SIGNS – A DISTANCE MEASURED IN FEET EQUAL TO A VALUE OF TEN TIMES THE SPEED LIMIT OF THE STREET
- FLAGMAN POSITION
- S SPACING BETWEEN BARRICADES– A DISTANCE MEASURED IN FEET EQUAL TO THE SPEED LIMIT OF THE STREET
- L TAPER LENGTH – SEE CHART BELOW

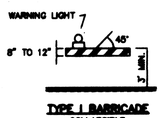
THE TANGENT LENGTH IS EQUAL TO THE TAPER LENGTH FOR A GIVEN STREET.



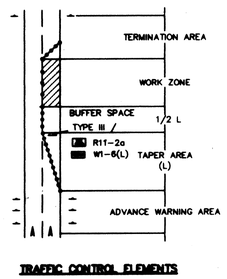
TYPE II BARRICADE COLLAPSIBLE



BARREL



TYPE I BARRICADE COLLAPSIBLE



TRAFFIC CONTROL ELEMENTS

TAPER REQUIREMENTS

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

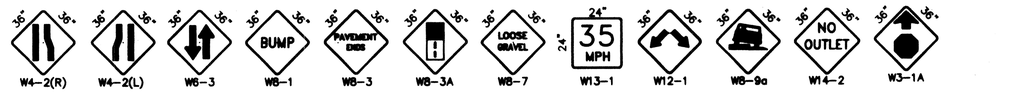
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

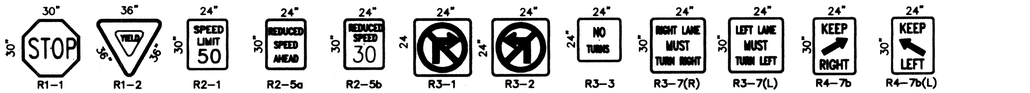
TAPER LENGTH COMPUTATION

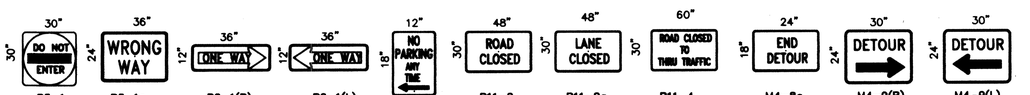
SPEED LIMIT	
40 MPH OR LESS	$L = \frac{WS^2}{60}$
45 MPH OR GREATER	$L = W \times S$

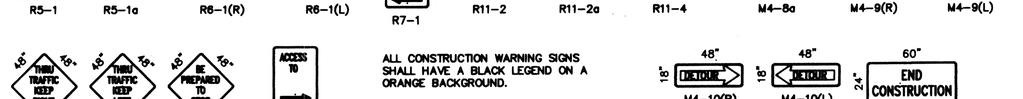
L = TAPER LENGTH
W = WIDTH OF OFFSET IN FEET
S = POSTED SPEED OR OFF-PEAK 85-PERCENTILE SPEED IN MPH

SIGN FACE DETAILS









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

AS BUILT INFORMATION
BENCH MARKS
SURVEY INFORMATION
FIELD NOTES BY DATE
NO.
CONTRACTOR DATE
WORK REQUESTED BY DATE
ACCEPTANCE BY DATE
VERIFICATION BY DATE
DRAWING CHECKED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
BRADD B. REGIONAL ENGINEER NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

REMARKS
REVISIONS
DESIGN BY DATE
NO. DATE
DESIGNED BY
DRAWN BY C.O.A. STANDARDS DATE
CHECKED BY DATE

FOR INFORMATION ONLY

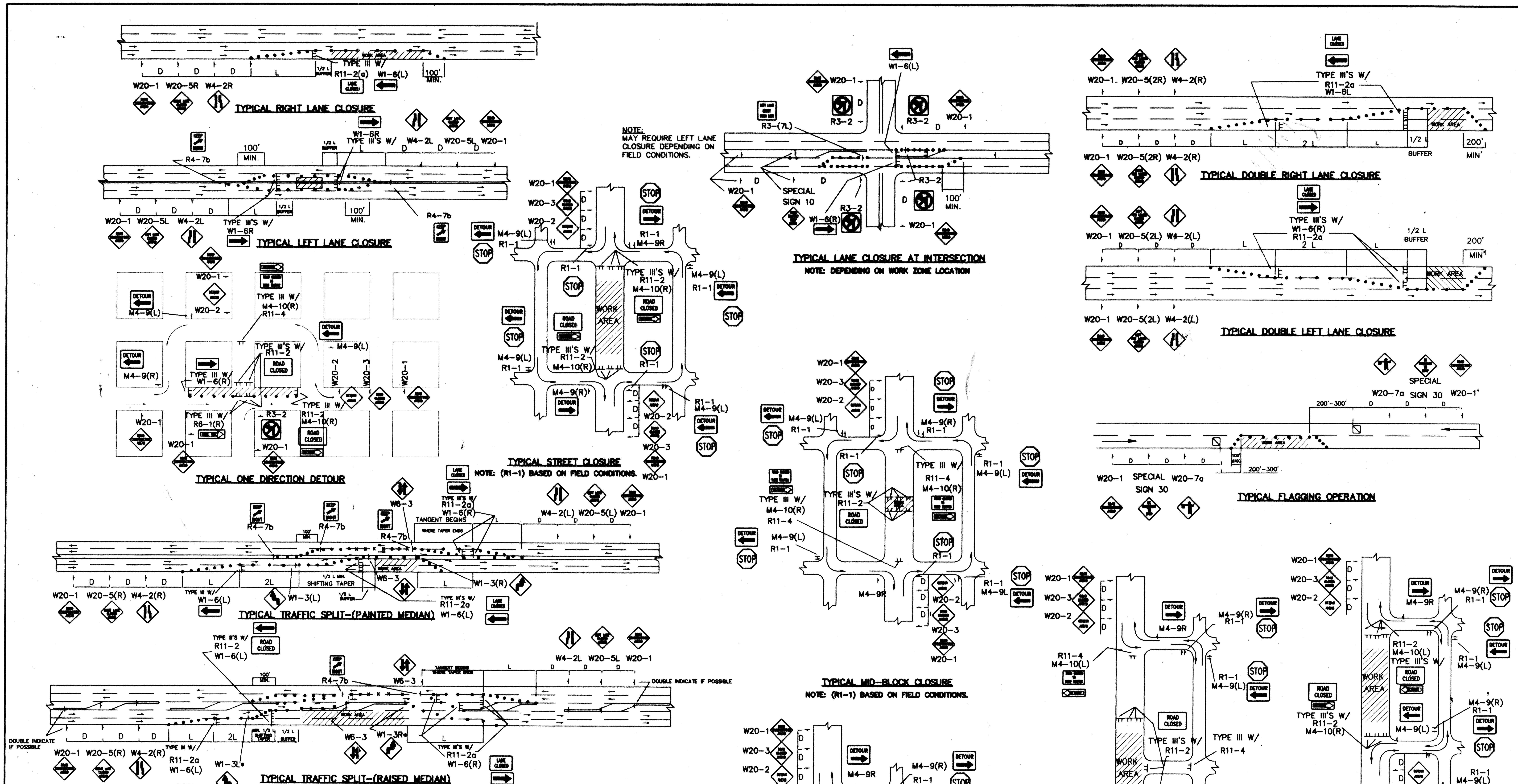
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.

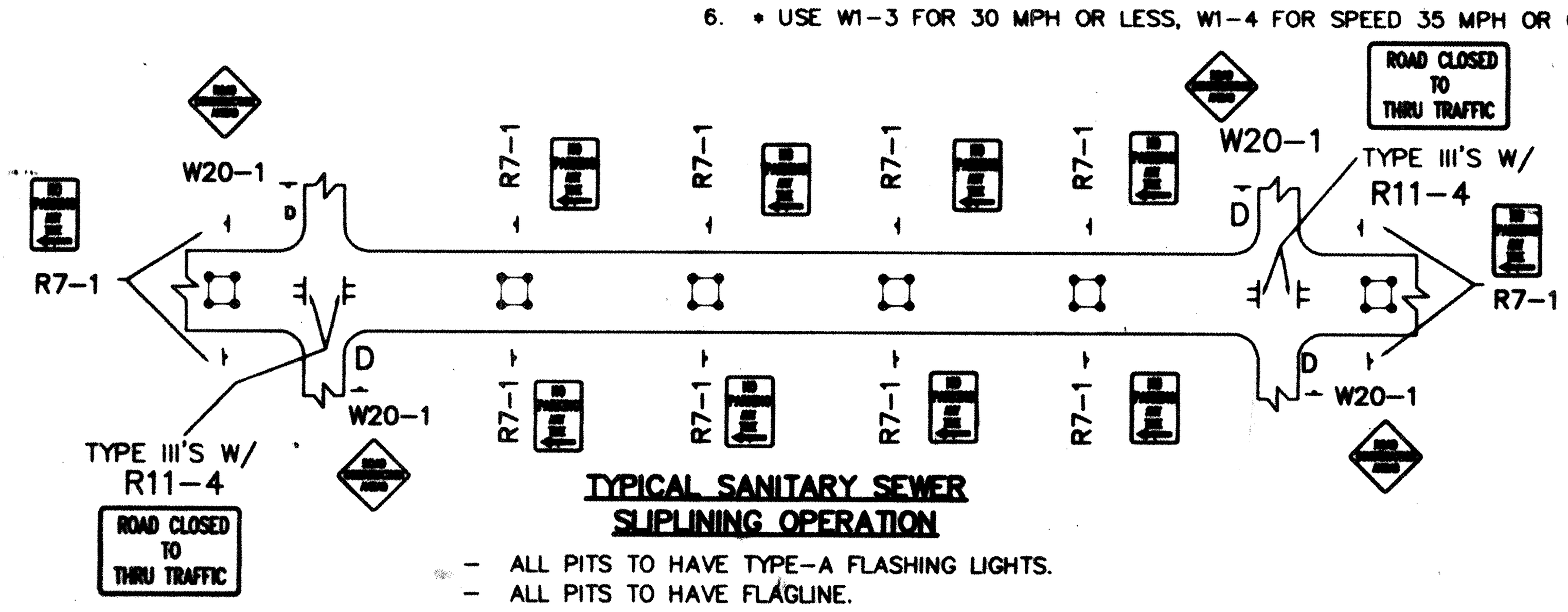
PROJECT NO. 5361.91
MAP NO.
SHEET 4 OF 3

CTCSTN01.DWG



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 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.

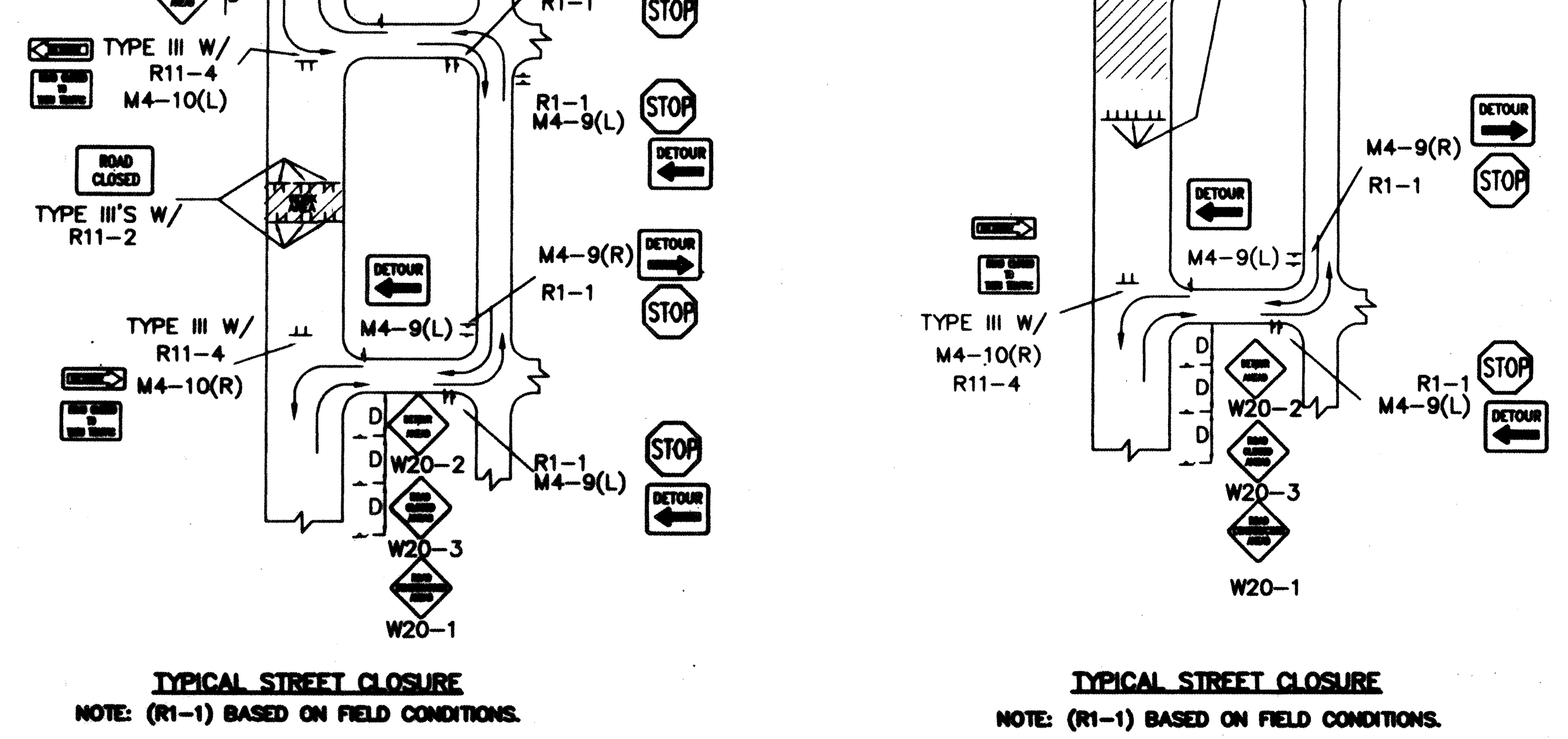


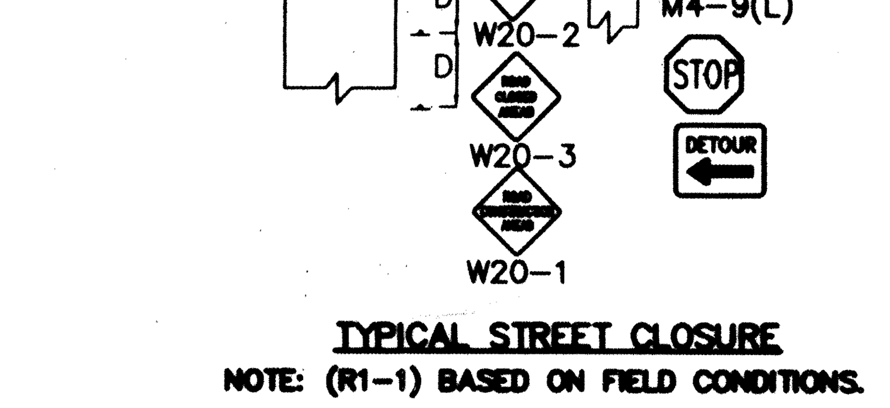
- ALL PITS TO HAVE TYPE-A FLASHING LIGHTS.
- ALL PITS TO HAVE FLAGLINE.

GENERAL NOTE:

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

ALL ADVANCE WARNING SIGNS SHALL BE A MINIMUM OF FORTY EIGHT (48) INCHES BY FORTY EIGHT (48) INCHES IN SIZE AND SHALL HAVE ONE WARNING LIGHT.





FOR INFORMATION ONLY

AS BUILT INFORMATION — CONTRACTOR / WORK STARTED / WORK COMPLETED / INSPECTOR'S ACCEPTANCE BY / FIELD VERIFICATION BY / DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION — RECORDED BY — DATE — NO.

BENCH MARKS

SURVEY INFORMATION — FIELD NOTES — NO. — BY — DATE

ENGINEER'S SEAL

REMARKS / REVISIONS / DESIGN / C.O.A. STANDARDS — NO. — DATE — BY

DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF. M.U.T.C.D.)**

DESIGN REVIEW COMMITEE	CITY ENGINEER APPROVAL	LAST UPDATE	MO./DAY/YR.	MO./DAY/YR.

PROJECT NO.	5361.91	MAP NO.	SHEET 4 OF 4

CTCSTND2.DWG