NEW MEXICO STATE HIGHWAY & TRANSPORTATION DEPARTMENT

CONSTRUCTION PLANS

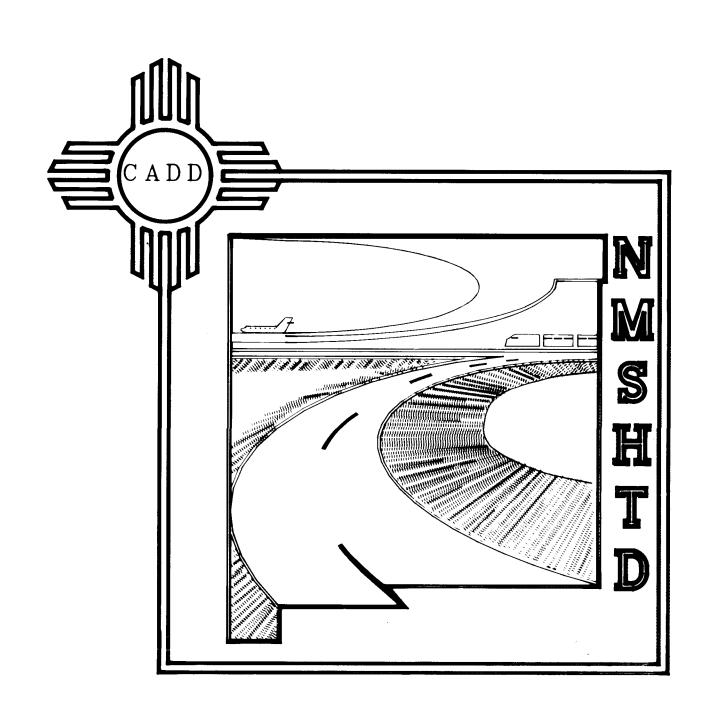
CAQ-4040 (2)

CITY OF ALBUQUERQUE

PROJECT NO. 3672

BERNALILLO COUNTY

APPROVED: Malku Whuhen DATE: 3/16/92
CITY ENGINEER, CITY OF ALBUQUERQUE



CN: 2428

CAQ PRS-4040(2) LOMAS/BROADWAY INTERSECTION IMPROVEMENTS



C of A PWD Maps & Records

1 2 3 4 5 6 7 8 9 10 11 12

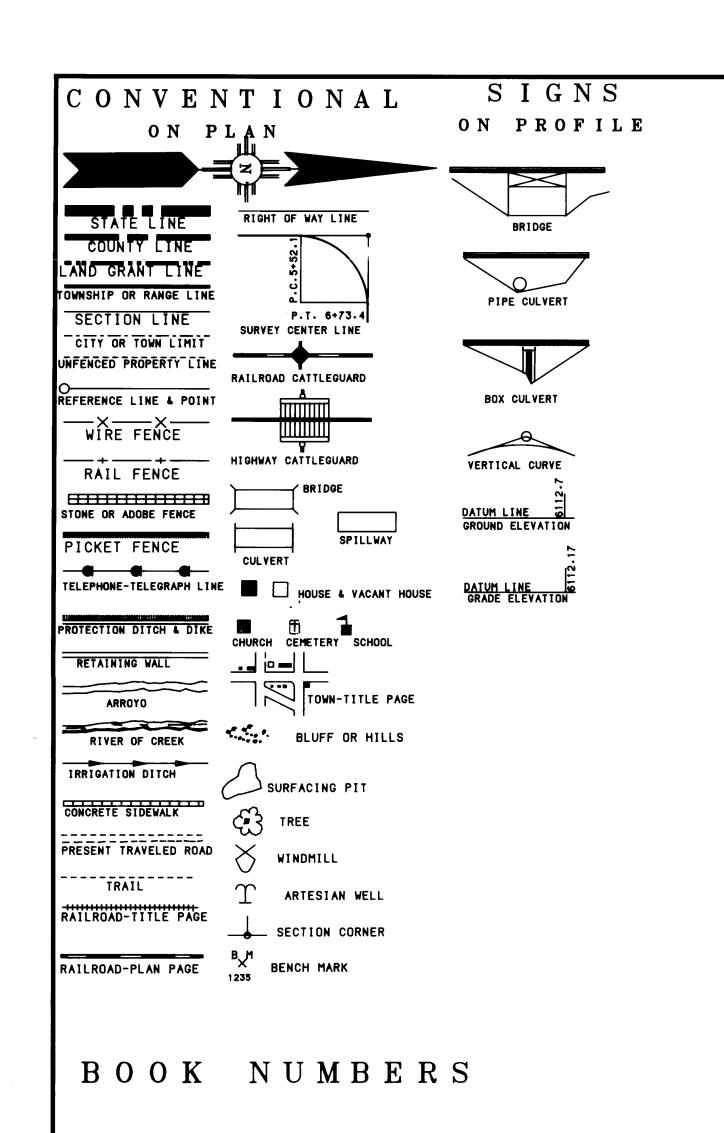
26 36720194

APPROVED: Rome & E. Maines DATE: 9-2-92

DESIGN DIVISION DIRECTOR

DESIGN DIVISION DIRECTO P.E. NO. **6409**

M E X I C U



S C A L E S
$$\begin{cases} PLAN & 1'' = 30' \\ PROFILE & 1'' = 10' \\ LAYOUT & 1'' = 30' \end{cases}$$

SHIPPING POINTS

ALBUQUERQUE

THE 1984 EDITION OF NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION SHALL GOVERN CONSTRUCTION OF THIS PROJECT.

LEGEND

HIS CONTRACT		·- r
BITUMINOUS SURFA	CED	٠- ،
GRAVEL SURFACED-]
GRADED AND DRAIN		
JNIMPROVED		
PRIMITIVE		- :
CONCRETE SURFACE	D	

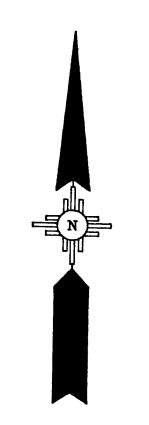
LENGTH OF PROJECT

0.211

IN MILES

LENGTH OF RIGHT - OF-WAY 0.176

IN MILES



TYPE OF CONSTRUCTION: COLDMILLING, OVERLAY, PMBP, CURB AND GUTTER, SIGNING, UTILITIES,

DETOURS, TRAFFIC SIGNALS, LIGHTING AND OTHER MISCELLANEOUS CONSTRUCTION.

CONST. & STA. 0+06.82

BEGIN R/W N.M.P TPS -4040(2)

CONST. & STA. 9+37.12 END R/W N.M.P. TPS-4040(2)

NEW R/W LINE -

CONST. & STA. 1+10.00 B.O.P. N.M.P. TP5 -4040(2)

NOT TO SCALE

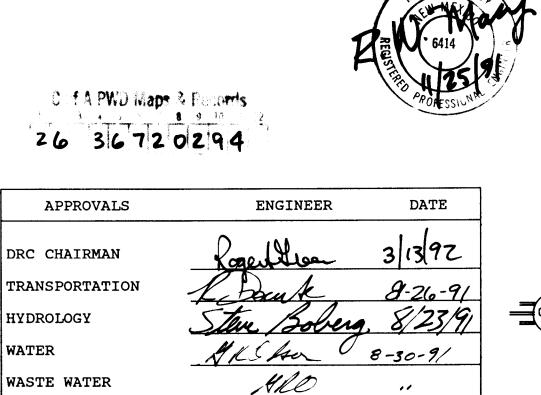
DOWNTOWN ALBUQUERQUE HES-(M)-4040(2)

R3E

PROJECT LOCATION SECTION 17, T.10N., R.3E.

Note: This Project designation has been changed to CAQ-4040(2) and henceforth all drawings and construction documents designated TPS-4040(2) or HES-4040(2) shall apply to this project.

BORROW SOURCE TO BE COMMERCIAL



DESCRIPTION DATE BY REVISIONS (OR CHANGE NOTICES) NEW MEXICO STATE HIGHWAY DEPARTMENT V I C I N I T Y M A P

F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO.

TPS-4040(2)

CONST. & STA. 2+85.00 E.O.P. N.M.P. TP5 -4040(2)

THE PLANS WERE DESIGNED AND/OR ASSEMBLED BY: DESIGNER ADIL RIZVI PHONE NO. 823-4494

N.M.P. NO. TPS-4040(2) _ SHEET NO.<u>/-Z</u>

VICINITY MAP

INDEX OF SHEETS

		т	
NUMBER	DESCRIPTION	REV. DATE	SERIAL
11-1	CORRUGATED METAL CULVERT & PIPE ARCHES, BEDDING & BACKFILL DETAILS	01/28/85	BMC-005
	DEDDING & DACKFILL DETAILS		
11-2	CHAIN LINK: FENCE AND GATES	07/28/78	CL-1
11-3	STANDARD JOINT DETAILS	04/29/88	LJD-001
11-4	FILL HEIGHTS & BEDDING DETAILS FOR	00/00/74	M 16 71
11-4	FILL HEIGHTS & BEDDING DETAILS FOR CONCRETE PIPE CULVERTS	09/09/74	M-10-/1
	OCHORLE I II E OCEVERIO		
11-5	MISCELLANEOUS DETAILS	05/14/81	RMD-001
11 6	DECION LOADS FOR COLLADE TURNIS ROOTS	05 /4 / /04	011 75 4
11-6	DESIGN LOADS FOR SQUARE TUBING POSTS	05/14/81	SN-75-1
11-7	ALUMINUM PANEL SIGN DETAILS	04/25/88	SN-75-2
	SHT 1 OF 2	01/20/00	311 10 Z
11-8	ALUMINUM PANEL SIGN DETAILS	04/25/88	SN-75-2
	SHT 2 OF 2		
11-9	BARRICADES & CHANNELIZATION DEVICES	09/20/88	SN-77-9
	DATE OF THE PROPERTY OF THE PR	03/20/00	311-77-9
11-10	DESIGN LOADS FOR BREAKAWAY FLANGED	06/30/82	TBAC-001
	CHANNEL POSTS		
11-11	DESIGN DETAILS FOR BREAKAWAY FLANGED	03/10/86	TBAC-002
	CHANNEL POSTS & HARDWARE	03/10/00	IDAC-002
	SUB-TOTAL = 11		
	PROJECT TOTAL SHEETS = 56		
-			774
 			·
			N.O.

NUMBER	DESCRIPTION	REV. DATE	SERIAL

			14.

			<u></u>
			.
			- #44

DATE BY DESCRIPTION REVISIONS (OR NOTICES)

F.H.W.A. REGION NO. 6

TPS-4040(2)

NEW MEXICO PROJECT NO. SHEET NO.

26 36720394

NEW MEXICO STATE HIGHWAY DEPARTMENT

INDEX OF SHEETS

GARDNER, MASON & ASSOCIATES, INC. ENGINEERS & PLANNERS ALBUQUERQUE, NM

NUMBER

4-1

5-1/5-10

COVER SHEET

VICINITY MAP

2-1/2-2 TYPICAL SECTIONS

LAYOUT PLAN

INDEX OF SHEETS

SUMMARY OF QUANTITIES

SURFACING SCHEDULE

PLAN AND PROFILE SHEET

WATER SHUT-OFF PLAN

LIGHTING PLAN & DETAILS

TRAFFIC SIGNALIZATION

STRUCTURE PLACEMENT

10-1/10-2 UTILITY SHEETS

2-5/2-6 MISCELLANEOUS QUANTITIES

GENERAL NOTES, SPECIAL PROVISIONS AND

ESTIMATED STRUCTURE QUANTITIES

CONCRETE JOINT AND REINFORCEMENT LAYOUT

TRAFFIC CONTROL/CONSTRUCTION SIGNING

PERMANENT SIGNING & MARKING PLAN

SUPPLEMENTAL SPECIFICATIONS

DESCRIPTION

SUB-TOTAL = 6

SUB-TOTAL = 7

SUB-TOTAL = 2

SUB-TOTAL = 1

SUB-TOTAL = 10

SUB-TOTAL = 2

SUB-TOTAL = 1

SUB-TOTAL = 11

SUB-TOTAL = 3

SUB-TOTAL = 2

REV. DATE SERIAL

SUMMARY OF QUANTITIES

F.H.W.A. REGION NO. 6

NEW MEXICO PROJECT NO. TPS-4040(2)

				ROA	DWAY	CONSTR	RUCTION VING	PERMA SIGN	NENT IING	CONSTR ENGINE	RUCTION	LIGH	TING	SIGNAL	IZATION	UTIL	ITIES	NON-PAR City of Alb	TICIPATING RICUFROUF	PRO.	JECT TAL
SHEET NO.	ITEM NO.	ITEM						1		ESTIMATE									•		
1101	202001	REMOVAL OF STRUCTURES & OBSTRUCTIONS	L.S.	L.S.	L.S.															L.S.	L.5.
	202010	REMOVAL OF SURFACING	S.Y.	510	429															510	429
	202025	FULL DEPTH CONCRETE REMOVAL	S.Y.	124	65													4		124	65
																		···			
	203001	UNCLASSIFIED EXCAVATION	C.Y.	280	0															280	0
	207001	SUBGRADE PREPARATION	S.Y.	1450	2088															1450	2088
	304014	BASE COURSE 4"	S.Y.	500	98															500	98
	304022	BASE COURSE 8"	S.Y.	665	843									<u> </u>						665	843
	401215	PLANT MIX BITUMINOUS PAVEMENT, TYPE 1, GRADE B, 11/2"	S.Y.	1568	283															1568	i
	401216	PLANT MIX BITUMINOUS MATERIAL, TYPE 1, GRADE B, 2"	S.Y.	1740	6090	*						-									6090
	404002	OPEN GRADED FRICTION COURSE	S.Y.	6615	4470								!							6615	
	407001	ASPHALT FOR TACK COAT	S.Y.	7500	0															7500	0
	408001	ASPHALT FOR PRIME COAT	S.Y.	1200	843															1200	843
 	414080	COLD MILLING (BITUMINOUS)	SY-IN		4783																4783
—	414085	COLD MILLING (CONCRETE)	SY-IN	470	00															470	0
	451012	CONCRETE PAVEMENT - 8"	S.Y.	480	98	1														480	98
	452020	SEALING CONCRETE PAVEMENT JOINTS	L.F.	1500	2424															1500	2424
 	452025 501312	RESEALING CONCRETE PAVEMENT JOINTS 18" REINFORCED CONCRETE PIPE CLASS IV	L.F.	2300	144														<u> </u>	2300	144
 	504010	REINFORCED CONCRETE PIPE CLASS TV	L.F. LB.	215	144							220	358	366	354				,	215 586	855
	509050	STRUCTURAL CONCRETE CLASS A	C.Y.	0	143			1.5				4.5	5	11	12					17	28
-	607036	CHAIN LINK FENCE - 6'	1 F	260	229			1.0				7.0		1 1	<i>, ,</i>					260	229
	608004	CONCRETE SIDEWALK - 4"	S.Y.	699	827															699	827
	608028	DRIVE PAD - 8"	S.Y.	60	228															60	228
	609018	STANDARD CURB AND GUTTER	L.F.	1047	1061															1047	1061
	609200	BITUMINOUS CURB	L.F.	98	47															98	47
	621001	MOBILIZATION	L.S.	L.S.	L.S.															L.S.	L.S.
	623270	DROP INLET TYPE "A"	EA.	1																1	
	623272	DROP INLET SINGLE "C"	EA.	2	3															2	3
†	623273	DROP INLET DOUBLE "C"	EA.	5	6															5	6
	663102	REMOVE AND RESET EXISTING FIRE HYDRANT	EA.															3	3	3	3
	664180	ADJUST MANHOLE TO GRADE	EA.															15	13	15	13
	664190	RELOCATE EXISTING WATER METER AND BOX	EA.													5	5			5	5
	701010	PLYWOOD OR ALUMINUM PANEL	S.F.	✓				27	25											27	25
	701101	STEEL POST AND BASE FOR PLYWOOD OR ALUMINUM PANEL SIGNS	L.F.	V	,			111	99											111	99
	702000	CONSTRUCTION SIGNING	S.F.			792	1398													792	1398
			C.Y.																	O.	290
			S.Y.			<u> </u>														0	1830
			S.Y.																	0	1830
			C.Y.																	0	203
			S.Y.			1														0	1833
 		Subgrade preparation & replacement	S.Y. L.F.																	7	1833
		Remove & dispose P.C.C.P.	5.Y.		1	1	<u>I</u>]		1			I	I						<u> </u>	1830
		Remove & dispose ATB/CTB	5.Y.	1											000					\bigcirc	1830
		Remove & dispose unclassified excavation (4")	C.Y.	1											2L 30	.7204	7 4 .			0	203
		6" Subgrade preparation for P.C.C.P.	5.Y.	1												- · · · · ·				0	1833
		Seperator Fabric	S.Y.											,	Project	Tital co	nt.			0	1833
		4" PVC Perforated Pipe W/Gravel	L.F.												0	684					NEW MEXICO
		8" ATOGBC	S.Y.												0	1833				SIAIE H	IGHWAY DEPA
		8" ATOGBC PCCP, including Dowelf joint material Sawcut joints water value adjustment	S.Y. L.F.												0	1833 2424			CIII		/ OF OI
		water value adjustment	ea.												0	4	NOW	Way	301	NIVIAKI	OF QU
	1	Pipe & catch basin adjustment (connection) Extruded PCC Med, Curb	ea. Lf.											,	0	287	1) Will	Mart			
																	Ham 1 64	14			

DATE BY DESCRIPTION

REVISIONS (OR NOTICES)

STATE HIGHWAY DEPARTMENT

SUMMARY OF QUANTITIES

SUMMARY OF QUANTITIES

F.H.W.A. REGION NO. 6					
1.11.44.A. NEGION NO. 0	F.H.\	W.A. REGION N	10. 6		CULLT
IEW MEXICO PROJECT NO. NO.	IEW MEX	(ICO PRO	JECT	NO.	SHEET NO.
TPS-4040(2) 1-5		TPS-4040(2)			1-5

				ROADWAY	CONSTI SIG	RUCTION NING	PERM SIG	ANENT NING	CONSTF ENGIN	RUCTION EERING	LIGH	ITING	SIGNAL	IZATION	UTIL	ITIES	NON-PAI CITY OF A	RTICIPATING UBUQUERQUE	PRO- TO	JECT TAL
SHEET NO.	ITEM NO.	ITEM	UNIT	ESTIMATE FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL	ESTIMATE	FINAL
	702145	PORTABLE SIGN SUPPORT	EA.		46	57													46	57
	702215	BARRICADE TYPE III-8'	EA.		33	44													33	44
	702330	VERTICAL PANEL, SINGLE TYPE	EA.		5	39									}				5	39
,	702335	VERTICAL PANEL BACK TO BACK TYPE	EA.		0	0													0	0
	702350	CHANNELIZATION DEVICES (BARRELS) TYPE B	EA.		466	285													466	285
,	702400	SEQUENTIAL ARROW DISPLAY	EA.		0	٥													0	0
	703120	TUBULAR TRAFFIC MARKER	EA.		0	0													0	0
	704010	REFLECTORIZED PAINTED MARKING	L.F.		7000	5963	5100	3842											12100	9805
	704015	ADHESIVE MARKING TAPE FOR CONSTRUCTION ZONES	L.F.		0	0													0	0
	704101	RETROFLECTIVE PREFORMED PAVEMENT MARKINGS	L.F.				1800	774											1800	774
	706010	SERVICE POLE (SIGNAL-UNDERGROUND)	L.F.EA.										1						1	[
	707015	TYPE I STANDARD 15'	EA.										2	2					2	2
	707041	TYPE II STANDARD — 30' ARM (ALB.)	EA.										2	2					2	2
		TYPE II STANDARD — 35' ARM (ALB.)	EA.										2	2					2	2
 	709015	RIGID ELECTRICAL CONDUIT - 1'	L.F.										90	60					90	60
	709030	RIGID ELECTRICAL CONDUIT - 2"	L.F.								971	1541	748	902					1719	2443
	709040	RIGID ELECTRICAL CONDUIT - 3"	L.F.						:				752	705					752	705
—	710010	ELECTRICAL PULL BOX (LARGE)	EA.				F2 * W.		ļ		4	5	24	24					28	29
ļ	710012	SPLICE CABINET	EA.										1						1	
	711025	COMMUNICATION CABLE 25 PAIR	L.F.										656	672					656	672
	711110	MULTI CONDUCTOR CABLE 5	L.F.										939	772					939	772
 	711112	MULTI CONDUCTOR CABLE 7	L.F.										534	489					534	489
 	711125	MULTI CONDUCTOR CABLE 20	L.F.										1550	1350					1550	1350
	711224	SINGLE CONDUCTOR 10	L.F.										775	675					775	675
	711230	SINGLE CONDUCTOR 4	L.F.										452	470					452	470
	712020	3 SECTION TRAFFIC SIGNAL ASSEMBLY	EA.										4	4					4	4
	712030	5 SECTION TRAFFIC SIGNAL ASSEMBLY	EA.										8	8					8	8
	712070	PEDESTRIAN SIGNAL ASSEMBLY (NEON)	EA.			ļ		<u> </u>					8	8					8	8
	712103	3 SECTION BACKPLATE	EA.										4	4					4	4
	712105	5 SECTION BACKPLATE	EA.										2	2					2	2
	713010	LOOP VEHICLE DETECTOR	EA.										5	5					5	5
 	713030	PUSH BUTTON STATION	EA.										8	8					8	8
	713040	LOOP DETECTOR WIRE	L.F.										4078	3146					4078	3146
	713050	LOOP LEAD-IN CABLE	L.F.										2544	2746					2544	2746
†	713060	DETECTOR SAW CUT	L.F.			ļ				-			1705	1508					1705	1508
	714072	MULTIPHASE ACTUATED CONTROLLER DUAL RING											1	l					1	1
<u> </u>	718020	REFLECTORIZED LEFT ARROW	EA.			ļ	4	6											4	6
<u> </u>	721001	REMOVAL OF PAVEMENT STRIPE	L.F.		7000														7000	1249
	*	CLEANING OF REFLECTIVE SURFACES ON	S.F.		792	1398													792	1398
		TRAFFIC CONTROL DEVICES																		
		(INCIDENTAL TO ITEMS 702000)																		
<u> </u>	618001	TRAFFIC CONTROL MANAGEMENT	CAL/DAY					<u> </u>	90	220									90	220

APPROVALS	ENGINEER	DATE
	41/0	
DRC CHAIRMAN .	<u> </u>	
TRANSPORTATION .	K Course	8-26-9/
HYDROLOGY 4	The Bovera	8.23 9.
WATER .	ARCHA	8-30-91
WASTE WATER .	. 4KO	

26 36720594

自相信的理解的表示的概率。

NEW MEXICO STATE HIGHWAY DEPARTMENT

SUMMARY OF QUANTITIES



GMA, IN
5700 HARPEI
ALBUQUERQU

GMA, INC.
5700 HARPER DR. NE., STE. 240
ALBUQUERQUE, NM 87109

DATE BY

DESCRIPTION

REVISIONS (OR NOTICES)

GENERAL NOTES

GENERAL NOTES

SPECIAL PROVISIONS

SUPPLEMENTAL SPECIFICATIONS

MODIFYING SECTION 101 - ABBREVIATIONS & DEFINITIONS (06/01/89)

MODIFYING SECTION 102 - BIDDING REQUIREMENTS & CONDITIONS (01/14/87)

- 1. THE CONSTRUCTION OF THE PROJECT WILL BE IN ACCORDANCE WITH THE NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, EDITION OF 1984 AND THE CITY OF ALBUQUERQUE'S STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION. IN CASE ON CONFLICT, THE MORE STRINGENT SPECIFICATION SHALL CONTROL.
- 2. THE CONTRACTOR SHALL INFORM THE PUBLIC THROUGH THE NEWS MEDIA OF LANE CLOSURES, DETOURS AND OTHER CONSTRUCTION ACTIVITIES WHICH AFFECT NORMAL TRAFFIC FLOW. NO DIRECT PAYMENT SHALL BE MADE BUT SHALL BE INCLUDED IN THE COST OF THE PROJECT.
- 3. THE FIRE DEPARTMENT SHALL BE NOTIFIED 48 HOURS IN ADVANCE BY THE CONTRACTOR WHENEVER A FIRE HYDRANT IS TO BE REMOVED OR IS TO BE OUT OF SERVICE.
- 4. THE AIR POLLUTION CONTROL REGULATIONS OF THE ALBUQUERQUE-BERNALILLO COUNTY AIR QUALITY CONTROL BOARD LIMIT EMISSION OF PARTICULATE MATTER AND THE USE OF CUT-BACK ASPHALT.
- 5. ALL EXCAVATION SHALL BE GOVERNED BY FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 6. ALL 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.
- 7. THE CONTRACTOR IS TO EXERCISE CARE WHEN REMOVING EXISTING PAVEMENT TO AVOID DISTURBING ANY EXISTING UNDERGROUND UTILITIES. IT SHALL BE HIS RESPONSIBILITY TO COORDINATE WITH THE UTILITY COMPANIES IN ORDER TO PREVENT ANY SERVICE DISRUPTION. ANY BROKEN UTILITY RESULTING FROM CONTRACTOR'S CONSTRUCTION EFFORTS WILL BE REPAIRED BY THE CONTRACTOR AND NO SEPARATE MEASUREMENT NOR PAYMENT WILL BE MADE, BUT SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF THE PROJECT.
- 8. CURB AND GUTTER, SIDEWALKS AND DRIVEPADS SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT, WHICH ARE DAMAGED OR DISPLACED BY THE CONTRACTOR, SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT HIS EXPENSE.
- 9. WHEN ABUTTING NEW PAVEMENT TO EXISTING INTERSECTING STREETS, SAW CUT EXISTING PAVEMENT TO A STRAIGHT LINE AND AT RIGHT ANGLES TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. NO DIRECT PAYMENT WILL BE MADE FOR SAW CUTTING.
- 10. ALL GAS VALVE BOXES, GAS MANHOLES, ELECTRICAL MANHOLES, TELEPHONE MANHOLES AND UTILITY POLES WILL BE ADJUSTED TO GRADE OR RELOCATED BY OTHERS.
- 11. WHEN REMOVAL OF EXISTING CURB AND GUTTER OR SIDEWALK IS REQUIRED, REMOVE BACK TO NEAREST SUITABLE JOINT UNLESS OTHERWISE NOTED.
- 12. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED BY HIM TO EXISTING VALVE BOXES, SIDEWALKS, TRAFFIC CONDUIT, MANHOLES AND CURB AND GUTTER DURING CONSTRUCTION AND SHALL REPAIR OR REPLACE SAME AT HIS OWN EXPENSE. THE CONTRACTOR SHALL PROTECT THE CURB AND GUTTER FROM INCIDENTAL SPLASHING DURING TACK COAT APPLICATION AND CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANING THE SAME AT THIS OWN EXPENSE IN THE EVENT OF SPLASHING.
- 13. CONTRACTOR SHALL MAKE ACCESSIBLE ALL WATER VALVES AND MANHOLES TO THE CITY UPON REQUEST, DURING CONSTRUCTION.
- 14. THE USE OF ADJUSTING RINGS WITHIN THE MANHOLE FRAMES TO ADJUST MANHOLE COVERS WILL NOT BE PERMITTED.
- 15. <u>CAUTION</u> ALL EXISTING UTILITIES SHOWN REFLECT THE BEST INFORMATION AVAILABLE AND ARE APPROXIMATE ONLY. <u>EXACT DEPTH OF UTILITIES IS UNKNOWN</u>.
- 16. ALL MANHOLE FRAMES AND COVERS AND WATER VALVE FRAMES AND LIDS SHALL BE ADJUSTED WITH CONCRETE COLLARS IN ACCORDANCE WITH THE STANDARD DETAILS AND ALL MANHOLE FRAMES AND COVERS AND WATER VALVE FRAMES AND LIDS ON BROADWAY BLVD. WITHIN PROJECT LIMITS SHALL NOT BE ADJUSTED UNTIL AFTER THE FIVE-EIGHTS (5/8") OGFC HAS BEEN PLACED AND COMPACTED TO INSURE PROPER FINISHED GRADE.
- 17. SUBGRADE PREPARATION UNDER SIDEWALKS AND DRIVEPADS, AND SUBGRADE PREPARATION AND BASE COURSE INSTALLATION UNDER "STANDARD CURB AND GUTTER" SHALL BE CONSIDERED INCIDENTAL TO THE CONSTRUCTION OF SUCH AND NO DIRECT PAYMENT SHALL BE MADE FOR THOSE ITEMS OF WORK.
- 18. QUANTITIES SHOWN HEREIN, FOR THE VARIOUS BID ITEMS, ARE FOR THE CONTRACTOR'S INFORMATION ONLY. PAYMENT SHALL BE BASED ON ACTUAL QUANTITIES AS CONSTRUCTED.
- 19. IT IS THE INTENT OF THE OWNER TO REQUIRE THE CONTRACTOR TO REMOVE THE BITUMINOUS PAVEMENT AND PORTLAND CEMENT CONCRETE PAVEMENT SURFACES FROM LIP TO LIP OF GUTTERS, ALONG A STRAIGHT LINE ACROSS INTERSECTIONS AS SHOWN ON THE PLAN, TO DEPTH AND PARAMETERS ESTABLISHED IN TO PLANS AND SPECIFICATIONS. THE OWNER MAKES NO REPRESENTATION IN REGARD TO THE RELATIVE EASE OR DIFFICULTY THAT THE CONTRACTOR MAY ENCOUNTER IN PERFORMING THIS WORK. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO THOROUGHLY INVESTIGATE SITE CONDITIONS AND SUBMIT A BID IN ACCORDANCE WITH WHAT HE HAS DISCOVERED. ANY AND ALL RECORDS PERTINENT TO THIS ITEM AND OTHER ITEMS ON THIS PROJECT ARE VAILABLE FOR INSPECTION AT THE CITY ENGINEER'S OFFICE.

- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANY WHEN WORKING NEAR THEIR SYSTEMS. UTILITY COMPANIES SHALL BE GIVEN 48 HOURS (WEEKENDS EXCLUDED) ADVANCE NOTICE FOR LINE LOCATION. CALL NEW MEXICO ONE CALL SYSTEM INC. AT 260-1990 REGARDING RELOCATION OF UTILITY LINES.
- 21. DELAYS DUE TO UTILITY RELOCATIONS: THE CONTRACTOR SHALL RECEIVE NO ADDITIONAL COMPENSATION FOR DELAYS, INCONVENIENCES OR DAMAGE SUSTAINED DUE TO ANY INTERFERENCES FROM SAID UTILITY APPURTENANCES OR THE OPERATION OF MOVING THEM, RESULTING FROM HIS NEGLIGENCE, AS DETERMINED BY THE PROJECT ENGINEER.
- 22. TEMPORARY STRIPING SHALL BE PLACED WHERE THE CONTRACTOR'S OPERATION HAS OBLITERATED THE EXISTING OR PREVIOUS TEMPORARY STRIPING AT THE END OF EACH WORKDAY. THE TEMPORARY STRIPING MAY BE FOUR (4) INCH WIDE PAINT OR TAPE AS APPROVED BY THE ENGINEER. THE TEMPORARY STRIPE SEGMENTS SHALL BE AT LEAST FOUR FOOT LONG ON NO GREATER THAN 4,0 FOOT CENTERS. TEMPORARY STRIPING SHALL BE INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT SHALL BE MADE THEREFORE.
- 23. THE FINAL SURFACE OF THE REPLACED PAVEMENT AND GUTTER SHALL CONFORM TO A GRADE LINE SET BY THE CONTRACTOR SUCH THAT THE PAVEMENT AND GUTTER WILL READILY DRAIN.
- 24. THE CONTRACTOR SHALL RESTRICT THE USE OF ROLLING EQUIPMENT TO A MAXIMUM OF 35 TONS ON URBAN SECTIONS (4-LANE SECTION). THE USE OF A VIBRATORY ROLLER WILL NOT BE ALLOWED ON THIS PROJECT.
- 25. AN ENVIRONMENTALLY SUITABLE DISPOSAL SITE ACCEPTABLE TO THE PROJECT MANAGER AND APPROVED FOR ALL EXCESS EXCAVATED MATERIAL, ASPHALTIC MATERIAL, CONCRETE CURB AND GUTTER, SIDEWALK, FOUNDATIONS AND WALLS SHALL BE OBTAINED BY THE CONTRACTOR. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND HAUL THERETO SHALL BE INCLUDED IN THE UNIT BID PRICE FOR: 202001 REMOVAL OF STRUCTURES AND OBSTRUCTIONS. 202010 REMOVAL OF SURFACING, 202025 FULL DEPTH CONCRETE REMOVAL, AND 202800 DEMOLITION.
- 26. THE OPEN-GRADED FRICTION COURSE OPERATION SHALL BE THE CONTRACTOR'S LAST SURFACING OPERATION. THE OPEN-GRADED FRICTION COURSE SURFACING SHALL BE PLACED FULL ROADWAY WIDTH AS SHOWN ON THE TYPICAL ROADWAY SECTION. ALL PMBP WILL BE COMPLETE PRIOR TO OGFC PLACEMENT.
- 27. ACCESS TO LOCAL BUSINESSES AND RESIDENCES SHALL BE PROVIDED AT ALL TIMES. ANY ACCESS CLOSURE MUST BE SCHEDULED AT LEAST 24 HOURS IN ADVANCE WITH PROPERTY OWNERS AND APPROVED BY THE PROJECT ENGINEER.
- 28. 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 ASPHALT VEHICLES AND EQUIPMENT FROM DRIVING UPON, ACCESSING OR TURNING ON PRIVATE PROPERTY ADJACENT TO PROJECT WORK AREAS.
- 29. EXACT LOCATION OF NEW SIGNAL MASTARMS, PEDESTAL POLES, SERVICE POLES AND CONTROLLER FOUNDATIONS ARE TO BE DETERMINED IN THE FIELD TO AVOID CONFLICTS WITH EXISTING UTILITIES. COORDINATE WITH CITY TRAFFIC ENGINEERS.
- 30. CONTRACTOR SHALL NOTIFY THE PROJECT ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE PROJECT ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE PROJECT ENGINEER AND SHALL NOTIFY THE PROJECT ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE PROJECT ENGINEER. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATION OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MONUMENT IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED.
- 31. NO MATERIALS PIT HAS BEEN DESIGNATED FOR THIS PROJECT. THE CONTRACTOR MAY OBTAIN SPECIFICATION SURFACING MATERIAL FROM ANY ACCEPTABLE SOURCE. ALL MATERIALS PIT ACTION SHALL BE GOVERNED BY SECTION 106 OF THE STANDARD SPECIFICATIONS.
- 32, EARTHWORK REQUIRED TO FILL THE WIDENED AREA TO THE PROPOSED GRADE INCLUDING IMPORTATION OF BORROW MATERIAL AND HAUL WILL BE CONSIDERED INCIDENTAL TO SURFACING ITEMS.
- 33. CONTRACTOR IS REQUIRED TO BUILD LIGHT POLE FOUNDATIONS, CONDUIT AND NEW TRAFFIC SIGNALS AND HAVE SIGNALS AND LIGHTING OPERATIONAL PRIOR TO WIDENING BROADWAY.
- 34. SUBSTANDARD MATERIAL SHALL NOT BE PLACED OR ALLOWED TO REMAIN WITH TWO FEET OF FINISHED SUBGRADE.
- 35. THE CONTRACTOR SHALL BE RESTRICTED TO THE USE OF A 30 TON NON-VIBRATING ROLLER MAXIMUM TO OBTAIN THE REQUIRED COMPACTION IN EMBANKMENT AND SUBGRADES.
- 36. THE CONTRACTOR WILL REPORT AND RESPOND TO ANY SPILLS OF HAZARDOUS MATERIALS SUCH AS GASOLINE, DIESEL, MOTOR OILS, SOLVENTS, CHEMICALS, TOXIC OR CORROSIVE SUBSTANCES, ETC. A SPILL IS DEFINED AS ANY RELEASE OF A CORROSIVE, HAZARDOUS, TOXIC OR RADIOACTIVE SUBSTANCE THAT MAY BE A THREAT TO PUBLIC HEALTH OR THE ENVIRONMENT.

REPORTS OF SPILLS WILL BE MADE IMMEDIATELY TO THE NEW MEXICO STATE POLICE, LOCAL FIRE MARSHAL, AND APPROPRIATE REGULATORY BUREAU OF THE ENVIRONMENT DEPARTMENT.

THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING AND CLEANUP OF ANY SPILL ASSOCIATED WITH PROJECT CONSTRUCTION. THE CONTRACTOR WILL BE RESPONSIBLE FOR REPORTING ANY DISCOVERIES OF PAST SPILLS OR CURRENT SPILLS NOT ASSOCIATED WITH CONSTRUCTION.

37. THE CONTRACTOR IS ADVISED THAT UTILITY RELOCATION BY THE UTILITY COMPANIES WILL BE DONE CONCURRENTLY WITH THE CONSTRUCTION. THE CONTRACTOR SHALL PROVIDE FOR UTILITY WORK IN CONJUNCTION WITH HIS OWN WORK AND SHALL BE REQUIRED TO COORDINATE THE SCHEDULING OF WORK WITH THE RESPECTIVE UTILITY COMPANIES. THIS WORK SHALL BE INCIDENTAL TO CONSTRUCTION AND NO SEPARATE PAYMENT MADE THEREOF.

FOR TAXES IMPOSED BY THE STATE OF NEW MEXICO, SECTION 107 (11/01/88) FOR SUBMISSION OF WEEKLY PAYROLLS (06/17/88) FOR APPRENTICES (04/26/82) MODIFYING SECTION 101 - ABBREVIATIONS AND DEFINITIONS (08/12/87) MODIFYING SECTION 102 - BIDDING REQUIREMENTS AND CONDITIONS (09/29/87) MODIFYING SECTION 103 - AWARD AND EXECUTION OF CONTRACT (03/10/88) MODIFYING SECTION 105 - CONTROL OF WORK (05/08/90) MODIFYING SECTION 106 - CONTROL OF MATERIALS (06/24/88) MODIFYING SECTION 108 - PROSECUTION & PROGRESS (06/23/88) MODIFYING SECTION 304 - BASE COURSE AND SUBBASE (06/28/89) MODIFYING SECTION 401 - PLANT MIX BITUMINOUS PAVEMENT (PMBP) (03/29/90) MODIFYING SECTION 404 - OPEN-GRADED FRICTION COURSE (03/29/90) FOR PLANT MIX BITUMINOUS PAVEMENT TESTING BY THE CONTRACTOR (3/29/90) MODIFYING SECTION 501 - PIPE CULVERTS & UNDERDRAINS (10/20/90) MODIFYING SECTION 503 - PORTLAND CEMENT CONCRETE (05/28/91) MODIFYING SECTION 608 - SIDEWALKS, DRIVE PADS AND CONCRETE MEDIAN PAVEMENT (12/13/88)

MODIFYING SECTION 618 - TRAFFIC CONTROL MANAGEMENT (8/29/91)
MODIFYING SECTION 663 - UTILITY ITEMS (09/06/89)

MODIFYING SECTION 701 - TRAFFIC SIGNS & SIGN STRUCTURES (1/24/92)

MODIFYING SECTION 702 - TRAFFIC CONTROL DEVICES FOR DETOURS (09/20/89)

FOR DEMOLITION ITEM NO. 202800

FOR MINIMUM WAGE RATES

INCIDENTAL TO CONSTRUCTION

- 1. PROVIDE NEWS MEDIA INFORMATION REGARDING CONSTRUCTION ACTIVITY. SEE GENERAL NOTE NO. 2 ON SHEET 1-6.
- 2. COORDINATING CONTRACTORS WORK WITH UTILITY COMPANY WORK. SEE GENERAL NOTE NO. 20 ON SHEET 1-6.
- 3. WATERING FOR DUST CONTROL SEE GENERAL NOTE NO. 4.
- 4. EXISTING IMPROVEMENTS DAMAGED OR INADVERTENTLY DISTURBED BY THE CONTRACTOR INCLUDING SIGNALS, UTILITIES, PAVEMENT, CURBS, SIDEWALKS, MANHOLES, VALVES, FENCES AND LANDSCAPING SEE GENERAL NOTES NO'S 7, 8 AND 12 ON SHEET 1-6.
- 5. SAW CUTTING EXISTING ASPHALT AND CONCRETE PAVEMENT. SEE GENERAL NOTE NO. $\underline{9}$ ON SHEET $\underline{1-6}$.
- 6. EXPLORATORY EXCAVATION OF EXISTING UNDERGROUND LINES TO DETERMINE EXACT HORIZONTAL AND VERTICAL LOCATION. SEE GENERAL NOTE NO. $\underline{15}$ ON SHEET $\underline{1-6}$.
- 7. SUBGRADE PREPARATION UNDER NEW CURB AND GUTTER, SIDEWALK AND DRIVEPADS. SEE GENERAL NOTE NO. 17 ON SHEET 1-6.
- 8. DISPOSAL OF MATERIALS REMOVED IN CONJUNCTION WITH CONSTRUCTION AND EXCESS MATERIAL FROM WITHIN CONSTRUCTION AREA. SEE GENERAL NOTE NO. 25 ON SHEET 1-6.
- 9. JOINTS REQUIRED FOR CONCRETE PAVEMENT, CURB & GUTTER AND SIDEWALK INCLUDING SAWING, CLEANING, BITUMINOUS MATERIALS, STEEL AND JOINT FILLERS.
- 10. PAINTING MEDIAN CURB REFLECTORIZED YELLOW.
- 11. CLEANING OF EXISTING OR NEWLY INSTALLED REFLECTORIZED MATERIALS.
- 12. PROVIDING OF TEMPORARY STRIPING. SEE GENERAL NOTE NO. $\underline{22}$ ON SHEET $\underline{1-6}$.
- 13. REPLACEMENT AND ADJUSTMENT OF SURVEY MONUMENTS. SEE GENERAL NOTE NO. 30 ON SHEET 1-6.
- 14. EARTHWORK FOR FILL WITHIN THE WIDENED AREA OF THE ROADWAY. SEE GENERAL NOTE NO. 32, ON SHEET 1-6.
- 15. PIPE PLUGS AS SHOWN ON PLANS.
- 16. CONCRETE COLLAR FOR 18" PIPE AS SHOWN ON SHEET 9-1 AND 9-3.
- 17. CHAIN LINK GATES 6' AND 30' WIDE AS SHOWN ON SHEET 3-2,

MODIFYING SECTION 103 - AWARD AND EXECUTION OF CONTRACT (01/14/87) MODIFYING SECTION 104 - SCOPE OF WORK (04/26/89) MODIFYING SECTION 105 - CONTROL OF WORK (02/01/89) MODIFYING SECTION 106 - CONTROL OF MATERIALS (01/14/87) MODIFYING SECTION 107 - LEGAL RELATIONS & RESPONSIBILITY TO PUBLIC $\frac{(09/12/89)}{(09/12/89)}$ MODIFYING SECTION 108 - PROSECUTION AND PROGRESS (01/14/87) MODIFYING SECTION 109 - MEASUREMENT & PAYMENT (12/28/88) MODIFYING SECTION 110 - CONTROL OF ENVIRONMENT (12/15/91) MODIFYING SECTION 203 - EXCAVATION, BORROW, EMBANKMENT (06/30/86) MODIFYING SECTION 304 - BASE COURSE AND SUBBASE (06/21/90) MODIFYING SECTION 401 - PLANT MIX BITUMINOUS PAVEMENT (1/8/91) MODIFYING SECTION 402 - BITUMINOUS MATERIALS (4/19/91) MODIFYING SECTION 404 - OPEN-GRADED FRICTION COURSE (|/8/9|) MODIFYING SECTION 408 - PRIME COAT (02/02/87) MODIFYING SECTION 501 - PIPE CULVERTS AND UNDERDRAINS (06/30/86) MODIFYING SECTION 503 - PORTLAND CEMENT CONCRETE (09/26/88) MODIFYING SECTION 504 - STEEL REINFORCEMENT (10/29/84) MODIFYING SECTION 509 - CONCRETE STRUCTURES (02/19/87) MODIFYING SECTION 608 - SIDEWALKS, DRIVE PADS AND CONCRETE MEDIAN

PAVEMENT (09/12/90)

MODIFYING SECTION 609 - CURB & GUTTER (09/12/90)

MODIFYING SECTION 621 - MOBILIZATION (09/19/84)

MODIFYING SECTION 623 - DROP INLETS (5/24/91)

MODIFYING SECTION 701 - TRAFFIC SIGNS AND STRUCTURES (9/3/87)

MODIFYING SECTION 702 - TRAFFIC CONTROL DEVICES FOR DETOURS (06/01/87)

MODIFYING SECTION 704 - PAVEMENT MARKINGS (02/06/90)

MODIFYING SECTION 711 - WIRING (06/30/89)

MODIFYING SECTION 718 - REFLECTORIZED PLASTIC PAVEMENT SYMBOLS, LEGENDS STRIPES, MARKINGS (07/14/86)

MODIFYING SECTION 870 - CONSTRUCTION STAKING BY THE CONTRACTOR (01/03/89)

APPROVALS

ENGINEER

DATE

DRC CHAIRMAN

TRANSPORTATION

Algust

8-76-9(
HYDROLOGY

WATER

WASTE WATER

ENGINEER

DATE

8-72-92

8-76-96

WASTE WATER

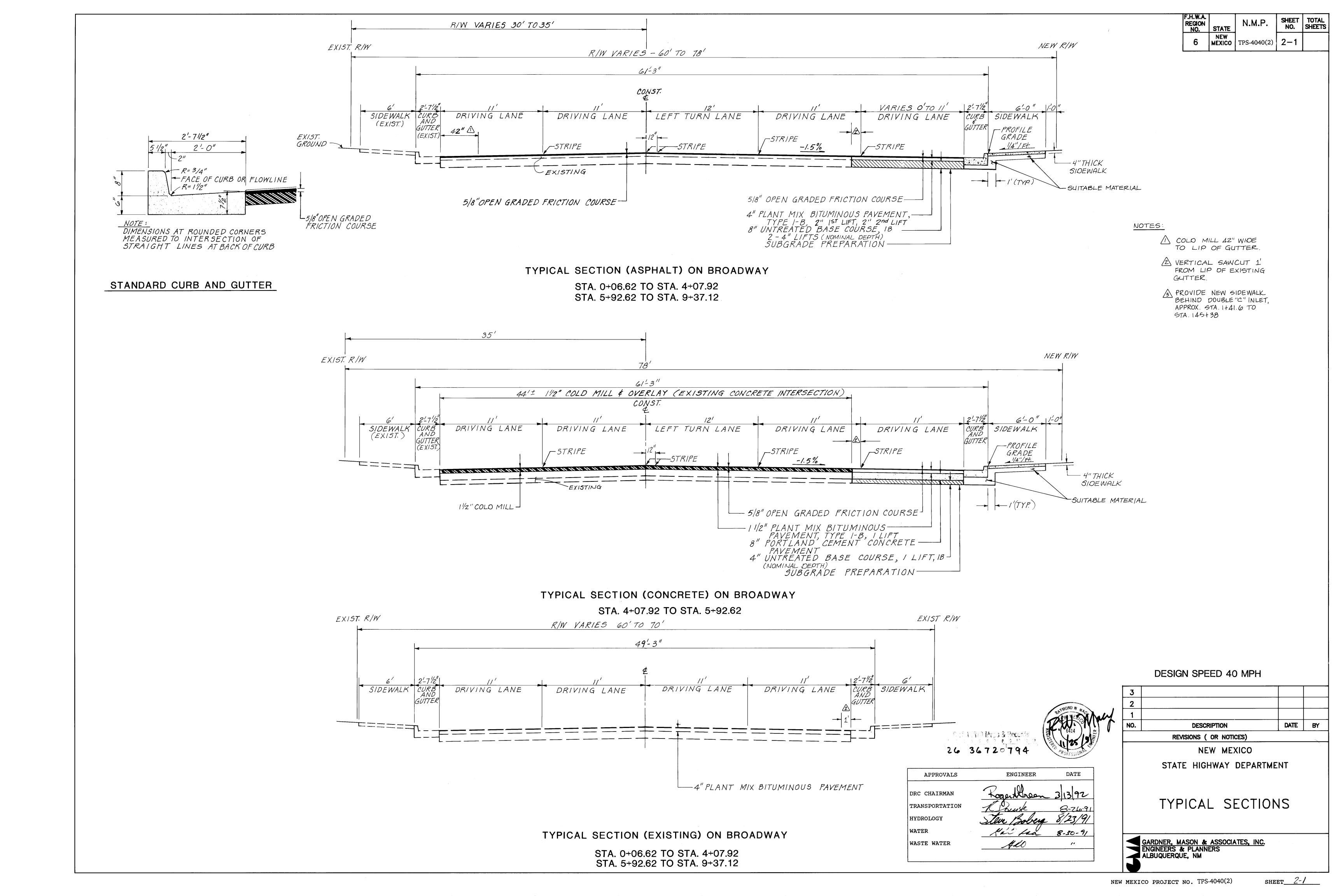
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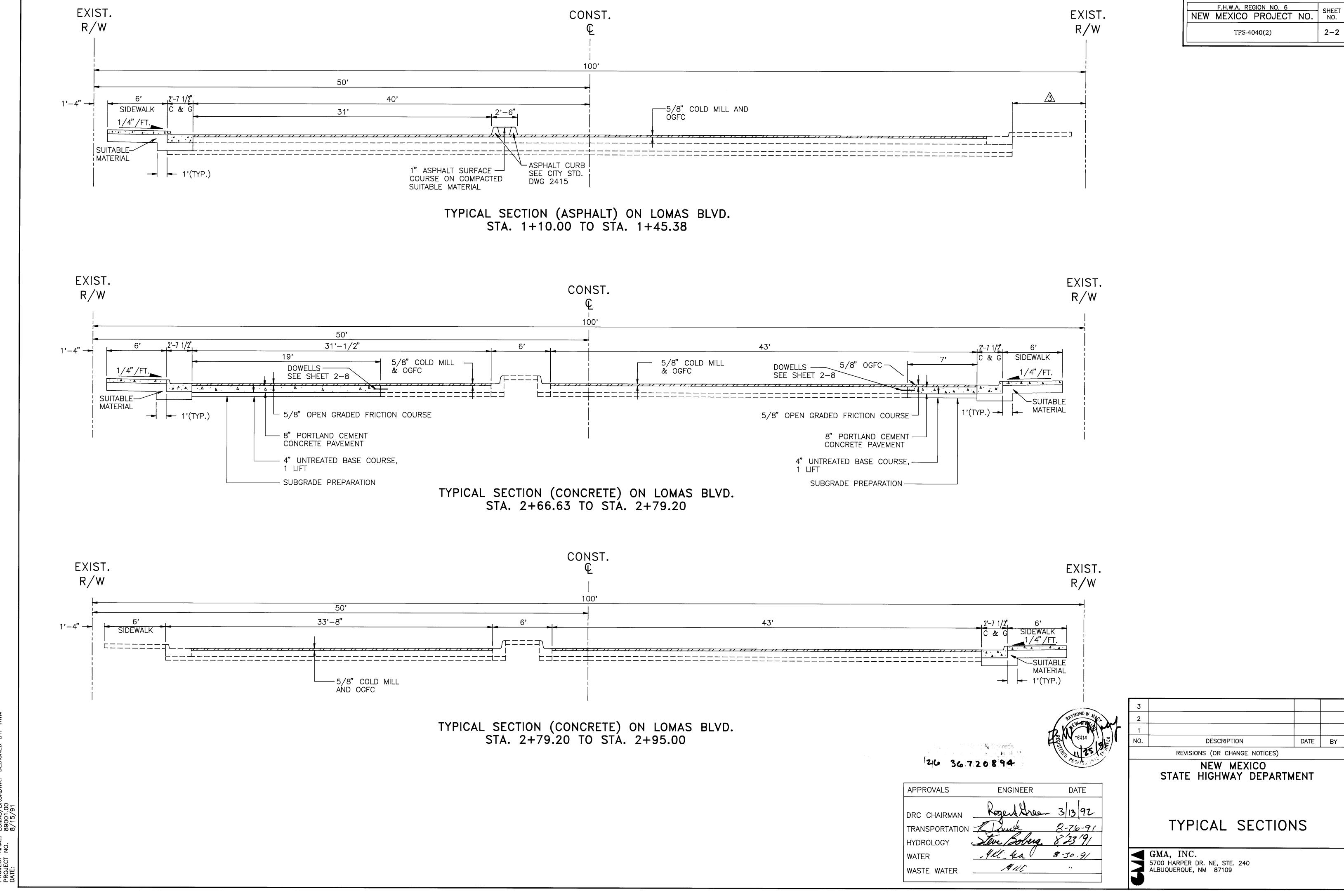
STATE HIGHWAY DEPARTMENT

NEW MEXICO



GENERAL NOTES,
SUPPLEMENTAL SPECIFICATIONS
AND SPECIAL PROVISIONS





SURFACING SCHEDULE

1EW	F.H.W.A. REGION NO. 6 MEXICO PROJECT NO.	SHEET NO.
	TPS-4040(2)	2-3

					7001		4014	AND 304	022	40)1215 /	AND 401	216		4	04002		407001	408001	451012
				SUE	GRADE REP		BASE	COUR	SE	PLAN PA'	<u>YEME1</u>	K BITUM NT TYP	MINIOUS E 1B	OPEN	GRADED	FRICTION	COURSE	ASPHALT FOR TACK COAT	ASPHALT FOR PRIME COAT	CONCRETE PAVEMENT-8"
DESCRIPTION	STATION	TO STATION	LENGTH	WIDTH	SQ. YDS.	WIDTH	DEPTH	SQ. YDS.	TONS	WIDTH	DEPTH	SQ. YDS.	TONS	WIDTH	DEPTH	SQ. YDS.	TONS	SQ. YDS.	SQ. YDS.	SQ. YDS.
BROADWAY SOUTH	0+06.62	4+07.92	401.30	VARIES	400	VARIES	8"	360	152	VARIES	2"	720	39	VARIES	5/8"	2360	75.80	2737.51	608.67	
BROADWAY NORTH	5+92.62	9+37.12	344.50	VARIES	305	VARIES	8"	305	128.78	VARIES	2"	305	33.04	VARIES	5/8"	2010	64.55	2305.27	484.00	
LOMAS WEST	1+10.00	1+61.24	51.24								2"	465	50.38	80.00	5/8"	465	95	448.25		
LOMAS EAST	2+36.77	2+95.00	58.23								2"	250	27.08	80.00	5/8"	250	8.04	240.13		
INTERSECTION	4+07.92	5+92.62	184.70	VARIES	700	VARIES	4"	500	105	VARIES	1 1/2"	1530	124.30	VARIES	5/8"	1530	49.14	1520.84		470
TRANSITION SLAB	3+98.00	4+08.00	10							34'	l 1/2"	38	3.09							
TOTAL					1385				385.78				276.89				212.48	7252.12	1092.67	470
USE					1450				400.00				280				220.00	7500	1200	480
								:												
								· 400 - 10								···				

NOTE:

AMOUNTS OF ASPHALT MATERIALS SHOWN ON SURFACING FACTORS ARE FOR ESTIMATING PURPOSES ONLY. CORRECT AMOUNTS WILL BE DETERMINED BY THE MATERIAL AND TESTING LABORATORY. AC-20 VISCOSITY GRADE ASPHALT MAY BE SUBSTITUTED FOR 60-70 PENETRATION GRADE ASPHALT IN THE OPEN-GRADED FRICTION COURSE AND THE PLANT MIX BITUMINOUS PAVEMENT.

SURFACING FACTORS

ITEM	ASPH. MATERIAL 60-70	WT. OF MAT'L. LBS./CU. YD.	HYDRATED LIME	SEC. 407	SUPP. 408	GAL./TON
P.M. BITUMINIOUS PAVEMENT TYPE 1B	5.0%	3900	1.5% *			
OPEN GRADED FRICTION COURSE	6.8%	3700	1.0% *			
BASE COURSE - TYPE IB		3800				
TACK COAT	***			0.02-0.15 GAL./SQ.YD.		235.66
PRIME COAT					0.35-0.55 GAL./SQ.YD.	256.86

^{*} BY WEIGHT OF TOTAL MIX



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NO.	DESCRIPTION	DATE	BY
	REVISIONS (OR NOTICES)		

NEW MEXICO STATE HIGHWAY DEPARTMENT

SURFACING SCHEDULE

^{*} FOR CONTRACTOR'S INFORMATION ONLY.

F.H.W.A. REGION NO. 6

NEW MEXICO PROJECT NO.

TPS-4040(2)

SHEET NO.

2-4

ESTIMATED STRUCTURE QUANTITIES UNCLASSIFIED EXCAVATION STATION STRUCTURE SIZE CU. YD. CU. YD. EA. EA. EA. BROADWAY BLVD. N.E. 0+84.00 BUILD 1-DROP INLET, TYPE "A" - RT.

0+84.00 TIE TO DROP INLET AT STA. 1+04.00

W/1-18"×12' RCP CLASS IV 12 BUILD 1-DROP INLET, DOUBLE "C" - RT.

1+04.00 TIE TO EXIST. 18" RCP
W/1-18" x5 LF RCP CLASS IV 40 5+39.00 BUILD 1-TYPE "E" MANHOLE 8' DIA. 6' TO 10' BROADWAY DEPTH, CONNECT TO EXIST. 54" STORM DRAIN. LOMAS BLVD. N.E. 36 27 28 TOTAL 215 2

203001



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APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	MA	
TRANSPORTATION 7	Louik	8.76.9
HYDROLOGY 🔾	twe Boberg	823 9
WATER	YNC 140-	8-30-91
WASTE WATER	Ano	**

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10.	DESCRIPTION	DATE	BY
	REVISIONS (OR NOTICES)		

NEW MEXICO STATE HIGHWAY DEPARTMENT

ESTIMATED STRUCTURE QUANTITIES

	GMA, INC.
-	5700 HARPER DR. NE., STE.
4	ALBUQUERQUE, NM 87109

DRIVE F	PAD - 8"	(NO.	608028)
STATION	LOCATION	LENGTH	DESCRIPTION
2+90	BWAY (EAST)	30 LF	
7+92	BWAY (EAST)	30 LF	
6+32	BWAY (EAST)	30 LF	
		90 LF	
			1
	.,		
TOTAL		60 SQ. YDS.	

	VAL	OF ST	KUUIL	JKF2	(NO. 202001
STATION	TO	STATION	LOC.	QUANTITIES	DESCRIPTION
1+00			BWAY (E)	1	DROP INLET DOUBLE "C"
1+30			**	1	DROP INLET DOUBLE "C"
4+17			20	1	DROP INLET SINGLE "C"
5+85			BWAY (E)	1	DROP INLET DOUBLE "C"
7+53			BWAY (E)	1	DROP INLET SINGLE "C"
1+59			LOMAS (N)	1	DROP INLET DOUBLE "C"
1+59			LOMAS (S)	1	DROP INLET DOUBLE "C"
2+43			LOMAS (N)	1	DROP INLET DOUBLE "C"
2+43			LOMAS (S)	1	DROP INLET DOUBLE "C"
TOTAL				9	
5+74	-	9+37.12	BWAY (E)	363 LF	CHAIN LINK FENCE
TOTAL				363 LF	
				300 Zi	
0+06	-	4+54	BWAY (E)	454 LF	STD. CURB & GUTTER
5+43		9+37.12	BWAY (E)	394 LF	STD. CURB & GUTTER
1+10		1+72	LOMAS (N)	62 LF	STD. CURB & GUTTER
1+40	_	1+72	LOMAS (S)	32 LF	STD. CURB & GUTTER
2+27		2+76	LOMAS (N)	49 LF	STD. CURB & GUTTER
2+27	-	2+95	LOMAS (S)	68 LF	STD. CURB & GUTTER
TOTAL		- 147		1059 LF	
0+06	 	4+54	BWAY (E)	454 LF	4' SIDEWALK
5+43	 	9+37.12	BWAY (E)	394 LF	4' SIDEWALK
1+10	1-1	1+72	LOMAS (N)	62 LF	4' SIDEWALK
1+40	1-1	1+72	LOMAS (S)	32 LF	4' SIDEWALK
2+27	1-1	2+76	LOMAS (N)	49 LF	4' SIDEWALK
2+27	1-1	2+95	LOMAS (S)	68 LF	4' SIDEWALK
TOTAL				1059 LF	
			BWAY (W)		SIGN FOUNDATION
			BWAY(W)		BUILDING FOUNDATION

3			
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1			
NO.	DESCRIPTION	DATE	BY
	REVISIONS (OR NOTICES)		

CONC	RET	TE SIDEV	VALKS	- 4	" (N	10. 608004)
STATION	TO	STATION	7		SQ. YDS.	
0+06		4+60	BWAY (E)	439	293	INCLUDES CURB RETURN & CURVATURE
5+40		9+37	BWAY (E)	382	255	INCLUDES CURB RETURN & CURVATURE
2+67		2+95	LOMAS (S)	28	19	
1+10		1+45	LOMAS (N)	35	23	
5+40		6+32	BWAY (W)	106	71	INCLUDES CURB RETURN
4+27		4+60	BWAY (W)	47	31	INCLUDES CURB RETURN
2+66		2+76	LOMAS (N)	10	7	
				1047		NOTE:
						70 LF SUBTRACTED FOR
						DRIVE PADS
TOTAL				699	9 SQ. YI	DS.

CHAI	\overline{N}	LINK F	FENCE	(NO.	6070	36)
STATION	TO	STATION	LIN. FT.	LOCATION	REMARKS	ITEM NO
					IN ALLIA FIA	
7+16		9+37.12	260	RT.	INCLUDES CURVATURE	607036
				-		
						•
	1					
	1					
						-
					1000	
TOTAL			260 LF	•		

	WHEEL CH	HAIR RAME)
STATION	LOCATION	NO. RAMPS	REMARKS
4+48	BWAY (E)	1	
4+48	BWAY (W)	1	
5+53	BWAY (E)	1	
5+53	BWAY (W)	1	
TOTAL		4 EA.	

	LENGTH OF PROJECT										
MARK	STATION	TO	STATION	LIN. FT.	MILES						
BWAY	0+06.62		9+37.12	930.50	0.176						
LOMAS	1+10		2+95	185.00	0.035						
TOTAL				1115.50 LF	0.211						

NEW	F.H.W.A. REGION NO. 6 MEXICO PROJECT	NO.	SHEET NO.
	2-5		

STANDARD CURB AND GUTTER								
(NO. 609018)								
STATION	TO	STATION	LOC.	LIN. FT.	REMARKS			
0+06		4+60	BWAY (E)	439	INCLUDES CURB RETURN & CURVATURE			
5+40		9+37.00	BWAY (E)	382	**			
2+67		2+95	LOMAS (S)	28				
1+10		1+45	LOMAS (N)	35				
5+40		6+32	BWAY (W)	106	INCLUDES CURB RETURN			
4+27		4+60	BWAY (W)	47	39			
2+66		2+76	LOMAS (N)	10	NOTE:			
					70 LF SUBTRACTED			
		77.			FOR DRIVE PADS			
TOTAL				1147 LF				

SUMMARY OF REFLECTORIZED PAINTED MARKING (NO. 704010)								
STATION	то	STATION	LOC.	4" WHITE STRIPE	4" YELLOW STRIPE	REMARKS		
0+06		4+38	BWAY		638	INCLUDES CURVES		
5+63		9+37.12	BWAY		544	INCLUDES CURVES		
0+00		4+38	BWAY	443		INCLUDES SOLID & DASHED LINES		
4+58		5+43	BWAY	510	-	2-12" CROSS WALKS		
5+63		9+37.12	BWAY	410		INCLUDES SOLID & DASHED LINES		
SUB-TOTAL				2726 LF	2364 LF	WITH 2 COATS PAINT		
TOTAL	5090 LF							
USE	5100 LF							

RETRO	FLI MA	ECTIVE ARKING	PR S (I	EFORN NO. 7	MED 1 0410	PAVEMENT (1)
STATION	ТО	STATION	LOC.	4" WHITE STRIPE		REMARKS
1+67		2+44	LOMAS	308		2-8" CROSS WALKS
1+75		2+37	LOMAS	248		2-8" CROSS WALKS
4+52		5+50	BWAY	392		2-8" CROSS WALKS
4+58		5+43	BWAY	340		2-8" CROSS WALKS
INTERSECTION	\bot			480		12" STOPBARS
SUB-TOTAL				1768 LF		
TOTAL		1768 LF				
USE				180	0 LF	

26	367	2.1	194	
			NIETA/	_

APPROVALS ENGINEER DATE DRC CHAIRMAN WATER WASTE WATER

NEW MEXICO STATE HIGHWAY DEPARTMENT

MISCELLANEOUS QUANTITIES

DROP INLET SINGLE "C" (NO. 623272)

STATION	LOCATION	QTY. (EA.)
4+15.13	BWAY. RT.	1
7+53.11	BWAY. RT.	1
TOTAL		2

<u>TYPE "A"</u> (NO. 62370)

(NO. 62370)			
STATION	LOCATION	QTY. (EA.)	
0+84.00	BWAY. RT.	1	
TOTAL		1	

RELOCATE WATER METER AND BOX (NO. 664190)

(110. 004100)		
STATION	LOCATION	QTY. (EA.)
1+48.88 BROADWAY	RT.	1
3+69.18 BROADWAY	RT.	1
5+54.00 BROADWAY	RT.	1
6+22.54 BROADWAY	RT.	1
7+09.71 BROADWAY	RT.	1
TOTAL		5

REMOVE AND RESET EXISTING FIRE HYDRANT (NO. 663102)

F.H.W.A. REGION NO. 6

NEW MEXICO PROJECT NO. SHEET NO.

TPS-4040(2)

2-6

(110. 66	3102)	
STATION	LOCATION	QTY (EA.)
1+34.59 BROADWAY	RT.	1
4+45.03 BROADWAY	LT.	1
5+78.54 BROADWAY	RT.	1
TOTAL		3

DROP INLET DOUBLE "C" (NO. 623273)

(NO. 023273)			
STATION	LOCATION	QTY. (EA.)	
1+04.00	BWAY. RT.	1	
5+85.36	BWAY. RT.	1	
1+45.31	LOMAS RT.	1	
2+65.98	LOMAS LT.	1	
2+66.59	LOMAS RT.	1	
TOTAL		5	

ADJUST MANHOLE TO GRADE

(NO. 664180)			
STATION	OFFSET	QTY. (EA.)	
1+11.13 BROADWAY	18' RT.	1	
1+16.17 BROADWAY	1' RT.	1	
1+21.23 BROADWAY	3' LT.	1	
4+17.42 BROADWAY	7' LT.	1	
4+77.70 BROADWAY	2' LT.	1	
4+93.85 BROADWAY	6' LT.	1	
5+37.84 BROADWAY	4' LT.	1	
5+40.22 BROADWAY	8' RT.	1	
5+81.64 BROADWAY	5' LT.	1	
7+61.53 BROADWAY	4' LT.	1	
7+89.80 BROADWAY	1' RT.	1	
1+57.98 LOMAS	5' RT.	1	
1+66.05 LOMAS	6' LT.	1	
2+41.95 LOMAS	4' RT.	1	
2+42.00 LOMAS	30' LT.	1	
<u> </u>			
TOTAL		15	

ADJUST VALVE BOX TO GRADE

(NO. 66	4175)	
STATION	LOCATION	QTY (EA.)
4+16.00 BROADWAY	LT.	1
4+41.47 BROADWAY	LT.	1
5+56.08 BROADWAY	RT.	1
TOTAL		3

PIPE PLUG ITEM(S)

INCIDENTAL TO STORM DRAINAGE ITEMS			
STATION	SIZE (INCHES)	QTY. (EA.)	
1+11.13 BWAY.	18"	1	
4+93.85 BWAY.	18"	1	
5+85.00 BWAY.	18"	1	
TOTAL		3	

<u>DEMOLITION</u> (NO. 202800)

(1.01		- /	
LOCATION	QUANTITY	UNIT	DESCRIPTION
GUARANTEED APPLIANCE 800 BROADWAY BLVD. N.E.	1	EA.	REMOVE BUILDING FOUNDATION 20'x 80'

NO ITEMS ARE TO BE SALVAGED.

TELEPHONE MANHOLES

(TO BE ADJUSTED BY OTHERS)				
STATION	LOCATION	QTY.		
4+54.00 BWAY.	RT.	1		
6+96.14 BWAY.	RT.	1		
TOTAL		2		

FULL DEPTH CONCRETE REMOVAL (NO. 202025)

(NO. 202025)					
STATION TO STATION	LENGTH FT.	WIDTH FT.	QTY. SY.		
INTERSECTION BROADWAY/LOMAS	VARIES	VARIES	192		
TOTAL			192		

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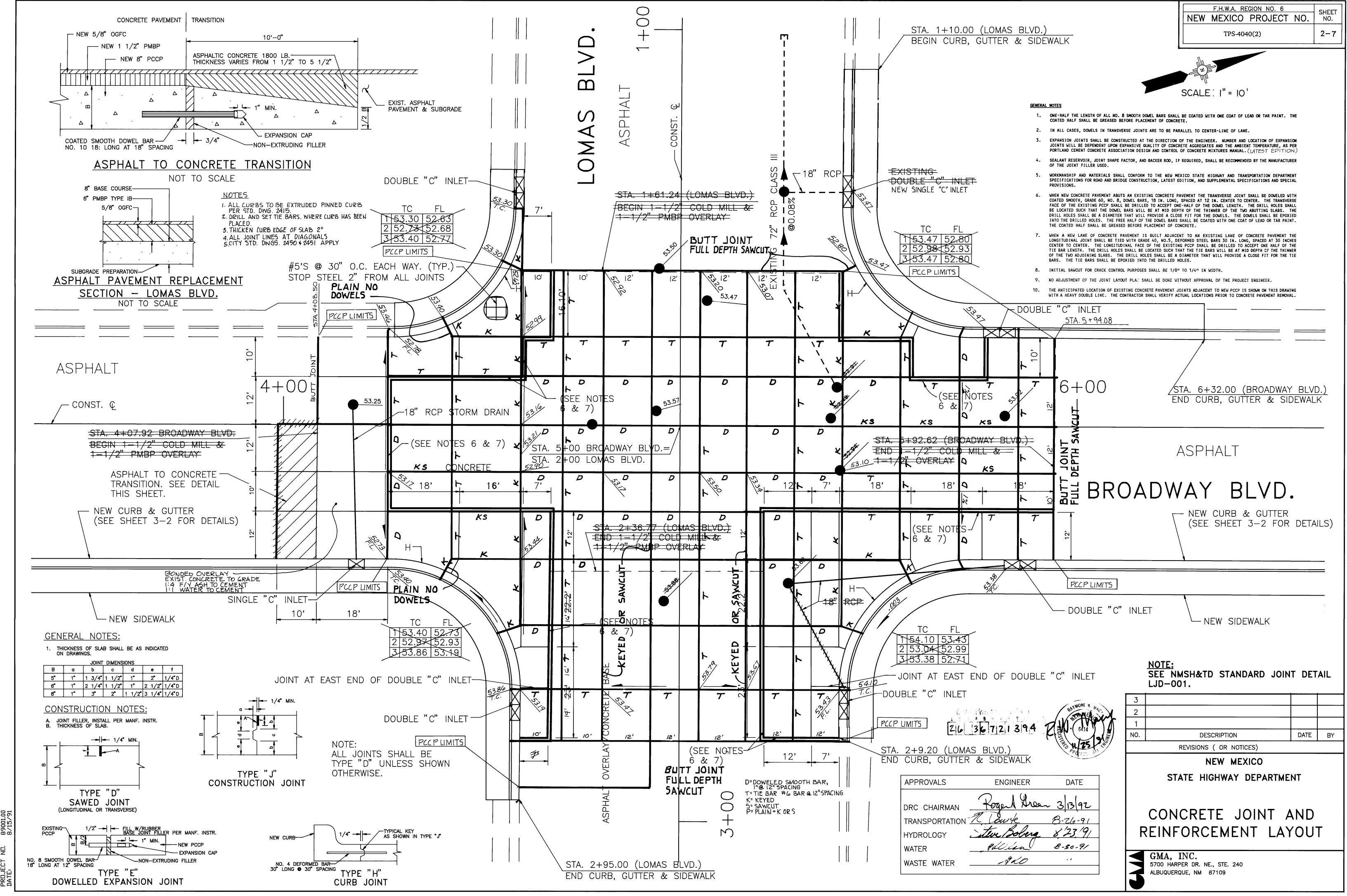
APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	N/A	
TRANSPORTATION	Roux	8-76-91
HYDROLOGY	Steve Boberg	8 23/9/
WATER	ARC Ker	2-30-91
WASTE WATER	- ARC	

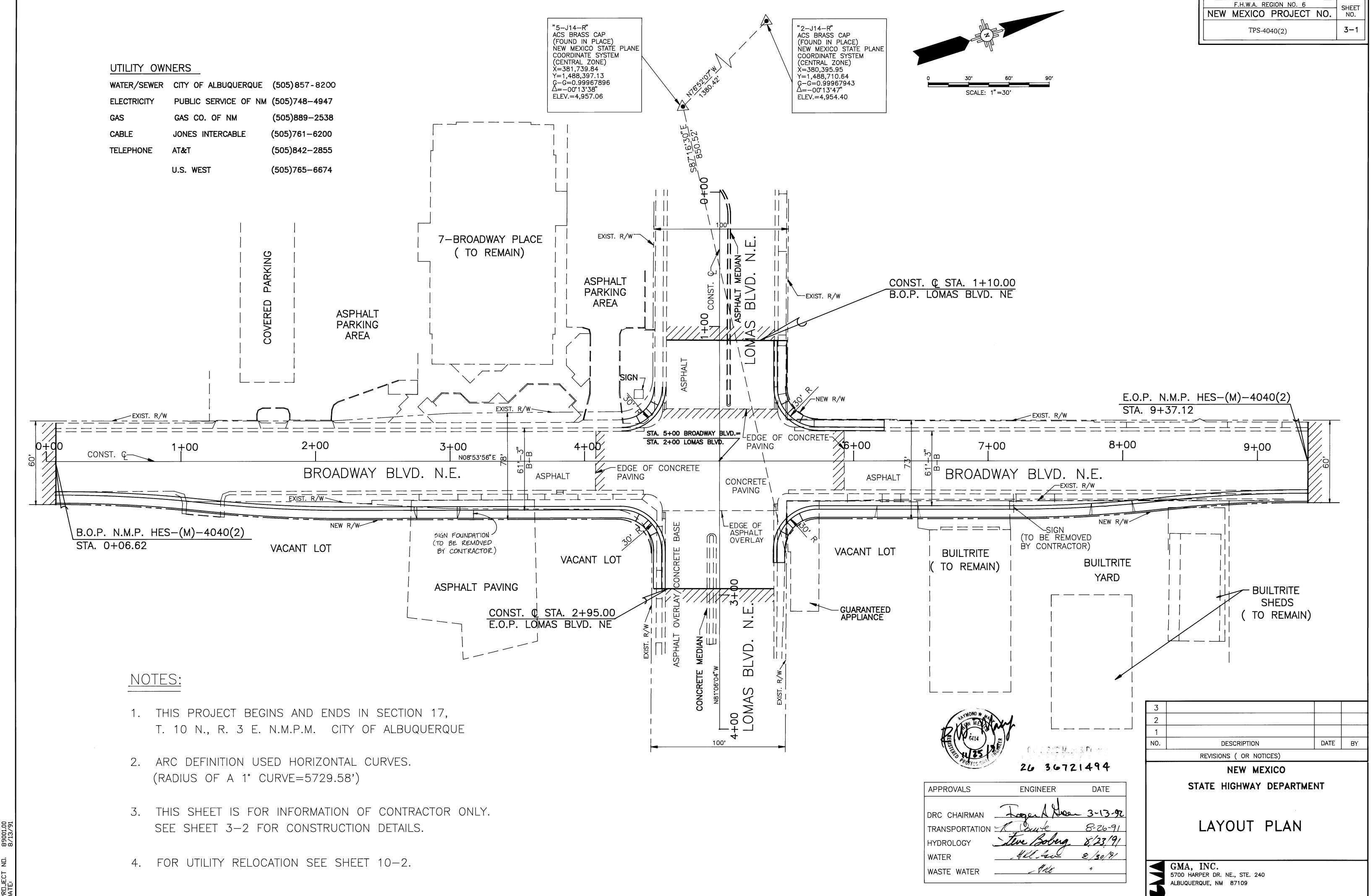
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	REVISIONS (OR NOTICES)		

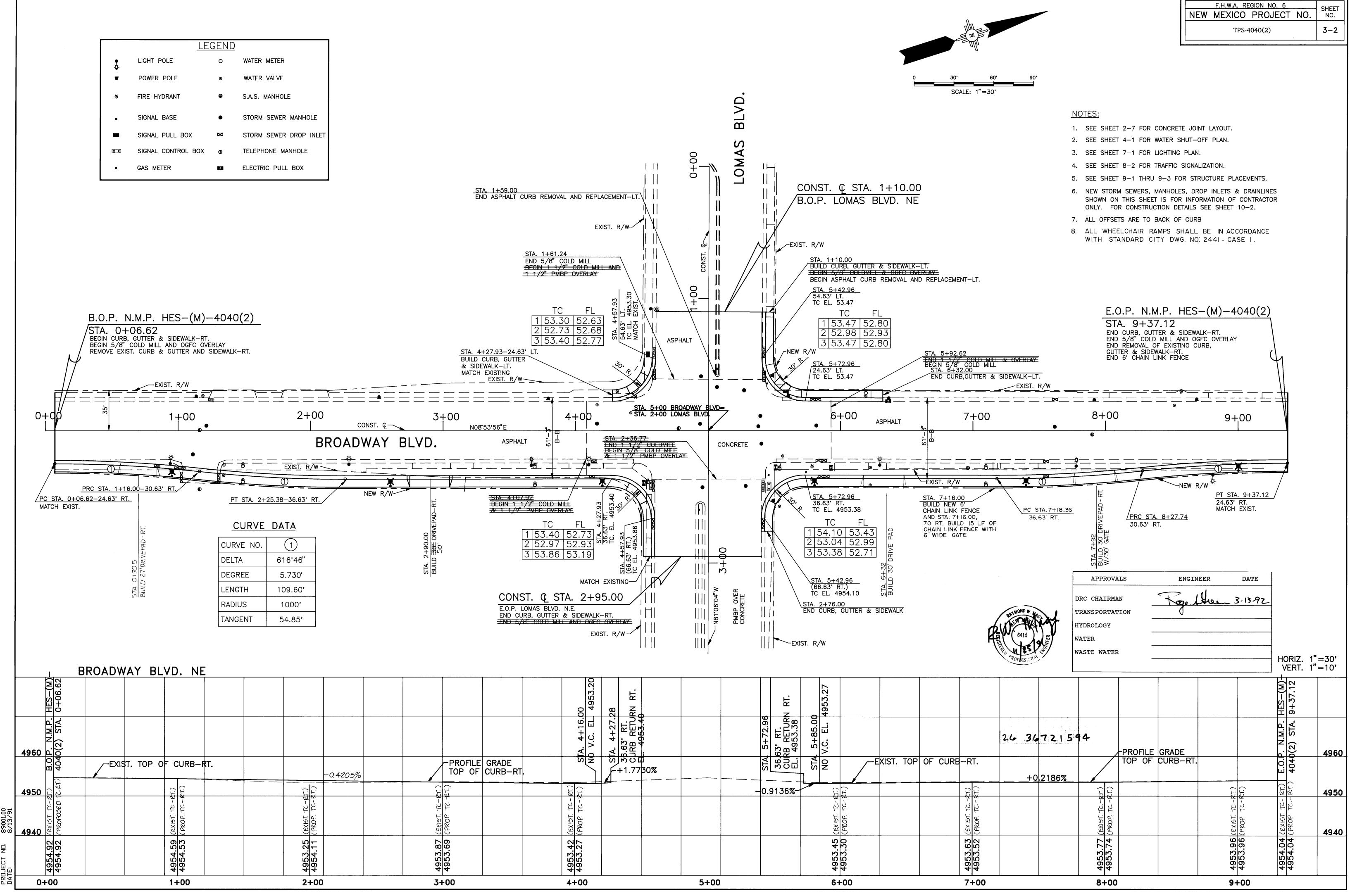
NEW MEXICO STATE HIGHWAY DEPARTMENT

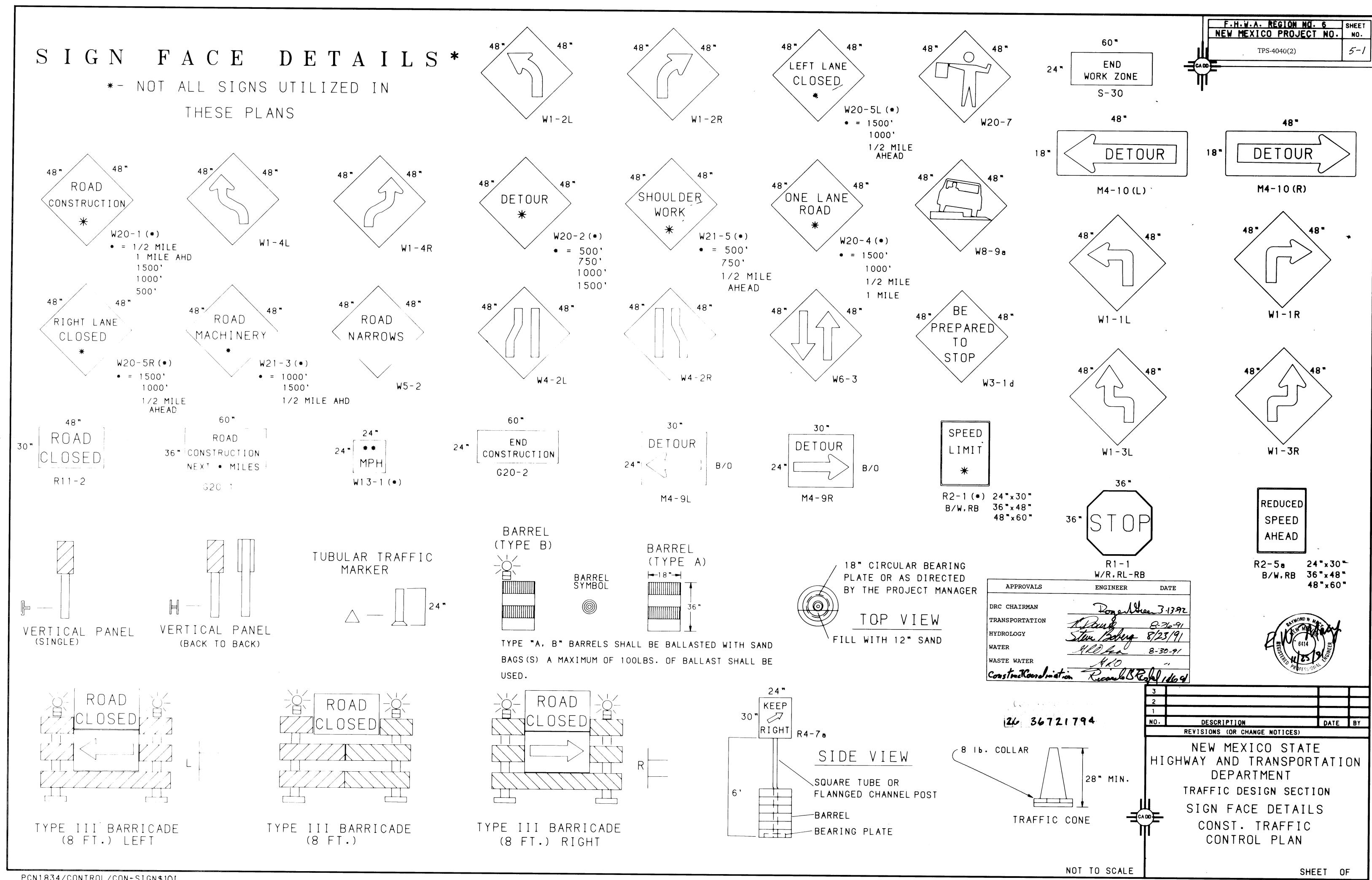
MISCELLANEOUS QUANTITIES

GARDNER, MASON & ASSOCIATES, INC. ENGINEERS & PLANNERS









SEQUENCE OF CONSTRUCTION

F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO. SHEET NO. 5-2

- 1. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH CHAPTER VI OF THE 1988 EDITION OF THE "MANUAL FOR UNIFORM TRAFFIC CONTROL DEVICES"
- 2. THREE (3) WORKING DAYS PRIOR TO BEGINNING CONSTRUCTION THE CONTRACTOR SHALL SUBMIT TO THE CONSTRUCTION COORDINATION DIVISION A DETAILED CONSTRUCTION SCHEDULE. TWO (2) WORKING DAYS PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL OBTAIN A BARRICADING PERMIT FROM THE CONSTRUCTION COORDINATION DIVISION. CONTRACTOR SHALL NOTIFY BARRICADE ENGINEER (768-2551) PRIOR TO OCCUPYING AN INTERSECTION.
- 3. UNLESS OTHERWISE PROVIDED AS PART OF THE CONSTRUCTION DOCUMENTS, THE CONTRACTOR SHALL PREPARE AND SUBMIT TO THE PROJECT MANAGER DETAILED TRAFFIC CONTROL PLANS, WHICH ARE SUBJECT TO THE APPROVAL OF THE ASSISTANT CITY ENGINEER FOR CONSTRUCTION COORDINATION 3 WORKING DAYS IN ADVANCE OF ANY REOUIRED CLOSURES.
- 4. CONTRACTOR SHALL NOTIFY THE FOLLOWING SERVICES 24 HOURS IN ADVANCE OF ANY COMPLETE CLOSURES: POLICE DEPARTMENT, FIRE DEPARTMENT, AMBULANCE SERVICES, AND THE TRANSIT DEPARTMENT.
- 5. PERMITS TO BARRICADE OR DETOUR TRAFFIC MUST BE OBTAINED FOR EACH PHASE OF CONSTRUCTION THROUGH THE CONSTRUCTION COORDINATION DIVISION AT LEAST 24 HOURS IN ADVANCE OF CONSTRUCTION ACTIVITIES.
- 6. ALL ADVANCE WARNING SIGNS AND BARRICADES MUST BE INSTALLED BEFORE CONSTRUCTION BEGINS AS DIRECTED BY THE ENGINEER.
- 7. ALL SIGN LOCATIONS WILL BE SELECTED IN THE FIELD AND APPROVED BY THE PROJECT ENGINEER.
- 8. ALL ADVANCE WARNING SIGNS SHALL BE 48" X 48" MINIMUM.
- 9. ALL ADVANCE WARNING SIGNS NOT DIRECTLY APPLICABLE SHALL BE REMOVED, COMPLETELY COVERED OR TURNED AWAY FROM ONCOMING TRAFFIC.
- 10. ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTORIZED ORANGE FIELD UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE, REFLECTORIZED, UNLESS OTHERWISE SPECIFIED.
- 11. ALL SIGNS WILL BE GROUND MOUNTED ON SINGLE OR DOUBLE POSTS WITH THE BOTTOM OF THE SIGN 7 FEET ABOVE SIDEWALK LEVEL. EXISTING POSTS MAY BE USED AT SOME LOCATIONS, WITH THE APPROVAL OF THE PROJECT ENGINEER. PORTABLE SIGN SUPPORTS WILL BE ACCEPTABLE AS AN ALTERNATIVE WITH THE APPROVAL OF THE PROJECT ENGINEER.
- 12. ALL EXISTING REGULATORY SIGNS THAT NEED TO BE REMOVED, RELOCATED OR REINSTALLED SHALL BE DONE BY THE CITY OF ALBUQUERQUE TRAFFIC ENGINEERING DIVISION. THE CONTRACTOR SHALL NOTIFY THE TRAFFIC ENGINEERING DIVISION 3 WORKING DAYS IN ADVANCE OF ANY REQUIRED WORK.
- 13. TRAFFIC CONTROL DEVICES REQUIRED AFTER DARK ARE TO BE EQUIPPED WITH WARNING LIGHTS. TYPE (A) FLASHING WARNING LIGHTS SHALL BE USED ON ALL ADVANCE WARNING SIGNS AND ON ALL DEVICES WHICH ARE INTENDED TO WARN MOTORISTS OR PEDESTRIANS OF HAZARDS OR OBSTRUCTIONS IN OR NEAR THE TRAVEL PATH. TYPE (C) STEADY BURN LIGHTS SHALL BE USED ON ALL DEVICES WHICH ARE INTENDED TO DEFINE THE TRAVEL PATH.
- 14. ALL SIGNS, BARRICADES AND/OR BARRELS WILL BE REFLECTORIZED.
 ALL BARRELS MAY HAVE SAND OR WATER BALLAST LIMITED TO 100 LBS.
- 15. ALL SIGNS, BARRICADES AND/OR BARRELS WILL BE MOVED FORWARD AS THE CONSTRUCTION PROGRESSES (WHERE APPLICABLE).
- 16. CONTRACTOR SHALL INSPECT AND MAINTAIN ALL BARRICADES AT LEAST TWICE EACH WORK DAY AND ONCE DURING THE HOURS OF DARKNESS. ANY UNACCEPTABLE SITUATIONS ENCOUNTERED WILL BE CORRECTED IMMEDIATELY.
- 17. BARRELS AND BARRICADES ARE NOT TO BE INTERMIXED IN THE SAME SERIES OF CHANNELIZATION.
- 18. TEMPORARY EXCAVATIONS MUST BE PLATED OR PATCHED PRIOR TO OPENING TO TRAFFIC.
- 19. A MINIMUM WIDTH OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN BOTH DIRECTIONS DURING THE CONSTRUCTION PHASING AT INTERSECTIONS.
- 20. EQUIPMENT AND MATERIALS ARE NOT TO BE STORED WITHIN THE STREET RIGHT-OF-WAY DURING NON-WORKING HOURS.
- 21. THE CONTRACTOR SHALL MAINTAIN ACCESS TO BUSINESSES AND RESIDENCES ADJACENT TO THE CONSTRUCTION AREA AS DIRECTED BY THE PROJECT ENGINEER.
- 22. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND ALL WORK AREAS THROUGHOUT THE PERIOD OF CONSTRUCTION. ALL SUCH CHANNELIZATION SHALL BE ARRANGED TO PREVENT PEDESTRIANS FROM HAVING TO ENTER THE ROADWAY IN ORDER TO PASS AROUND THE WORK AREAS.
- 23. BARRELS AROUND OPEN EXCAVATIONS AND VALVE REPAIRS ARE TO BE SPACED AT 10 FEET.

- 24. CONTRACTOR SHALL PROVIDE ACCESS SIGNS AS DIRECTED BY THE TRAFFIC ENGINEER. ACCESS SIGNS SHALL HAVE BLUE REFLECTORIZED BACKGROUND WITH 5" WHITE LETTERING.
- 25. CONTRACTOR IS TO OPEN AND CLOSE TRENCHES ON THE SAME DAY.
- 26. CONTRACTOR SHALL NOTIFY EACH FACILITY, BUSINESS AND RESIDENT, BY WRITTEN LETTER, ON BROADWAY BLVD. BETWEEN ROMA AND MARBLE INFORMING OCCUPANT OF SCOPE OF WORK, TENTATIVE START-UP DATE AND TENTATIVE COMPLETION DATE.
- 27. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL PROVIDE CONSTRUCTION ADVISORY SIGNS, WEST AND EAST OF THE LOMAS/BROADWAY INTERSECTION, AND ALONG BROADWAY NORTH OF MOUNTAIN ROAD AND SOUTH OF GRAND AVENUE. SIGNS SHALL READ "ROAD CONSTRUCTION AHEAD, TRAFFIC DELAYS ANTICIPATED, SEEK ALTERNATE ROUTE."
- 28. ALL SIGNS TO BE FACING DIRECTION OF TRAFFIC.
- 29. LANE CLOSURES AND OTHER INDIVIDUAL SITUATIONS WILL BE ADDRESSED AS THEY ARISE. THE TRAFFIC CONTROL INSTALLATIONS SHOWN HERE ARE TYPICAL. NOT ALL BARRICADING WILL NECESSARILY BE REQUIRED AT ALL TIMES AND IS SUBJECT TO REVISION UPON APPROVAL OF THE ASSISTANT CITY ENGINEER FOR CONSTRUCTION COORDINATION.
- 30. DRAINAGE AND UTILITY FACILITIES WILL BE CONSTRUCTED CONCURRENTLY WITH PAVEMENT IMPROVEMENTS.
- 31. MINOR CROSS STREETS MAY BE BLOCKED ONLY IF SUFFICIENT ALTERNATE ACCESS IS AVAILABLE TO AFFECTED PROPERTIES OR AS DETERMINED BY THE PROJECT ENGINEER.
- 32. THE CITY WILL PLACE A NOTICE OF CONSTRUCTION ACTIVITY IN LOCAL NEWSPAPER(S) AT LEAST TWO WEEKENDS PRECEDING THE BEGINNING OF EACH MAJOR PHASE OF CONSTRUCTION. THE CONTRACTOR WILL PROVIDE THE PROJECT ENGINEER WITH TIMELY SCHEDULE AND DETOUR INFORMATION AND UPDATES FOR PREPARATION OF THESE NOTICES.
- 33. CONTRACTOR IS REQUIRED TO BUILD LIGHT POLE FOUNDATIONS, CONDUIT AND NEW TRAFFIC SIGNALS AND HAVE SIGNALS OPERATIONAL PRIOR TO WIDENING BROADWAY.

PHASE I - BUILD EAST SIDE OF BROADWAY, NORTH AND SOUTH OF LOMAS.

- A. CONTRACTOR IS REQUIRED TO BUILD LIGHT POLE FOUNDATIONS, CONDUIT AND NEW TRAFFIC SIGNALS AND HAVE SIGNALS OPERATIONAL PRIOR TO WIDENING BROADWAY. SEE SHEET 5-7 FOR TCP FOR CONDUIT INSTALLATION.
- B. PLACE ADVANCE WARNING SIGNS AT MOUNTAIN ROAD, GRAND AVENUE, AND ON LOMAS BLVD.
- C. CLOSE EAST SIDE OF BROADWAY. MAINTAIN 2 LANES OF TRAFFIC, ONE EACH DIRECTION. CLOSE OUTSIDE LANES ON EAST AND WEST BOUND LOMAS. SEE SHEET 5-3 FOR DETAILS.
- D. BUILD WIDENED AREAS ON BROADWAY NORTH AND SOUTH OF LOMAS BLVD.
- E. STRIPE LANES FOR PHASE II TRAFFIC CONTROL. SEE SHEET 5-4 FOR DETAILS.

PHASE II - BUILD WEST SIDE OF BROADWAY, NORTH AND SOUTH SIDE OF

- A. TRAFFIC WILL REMAIN ON THE EAST SIDE OF BROADWAY.
- B. BUILD NEW CURB RETURNS. SEE SHEET 5-5 FOR DETAILS.

PHASE III - BUILD MIDDLE OF INTERSECTION

A. COLD MILL AND OVERLAY ENTIRE PROJECT. PERFORM THIS WORK PROCESS ON A SATURDAY AND/OR SUNDAY ONLY. USE TCP DETOUR AT LOMAS AND BROADWAY INTERSECTION CLOSURE PLAN. SEE SHEETS 5-9 AND 5-10 FOR DETAILS.

PHASE IV - OGFC

A. TRAFFIC WILL BE DIRECTED TO THE UN-USED LANES. SEE TCP FOR OGFC INSTALLATION SHEETS 5-9 AND 5-10 FOR DETAILS.

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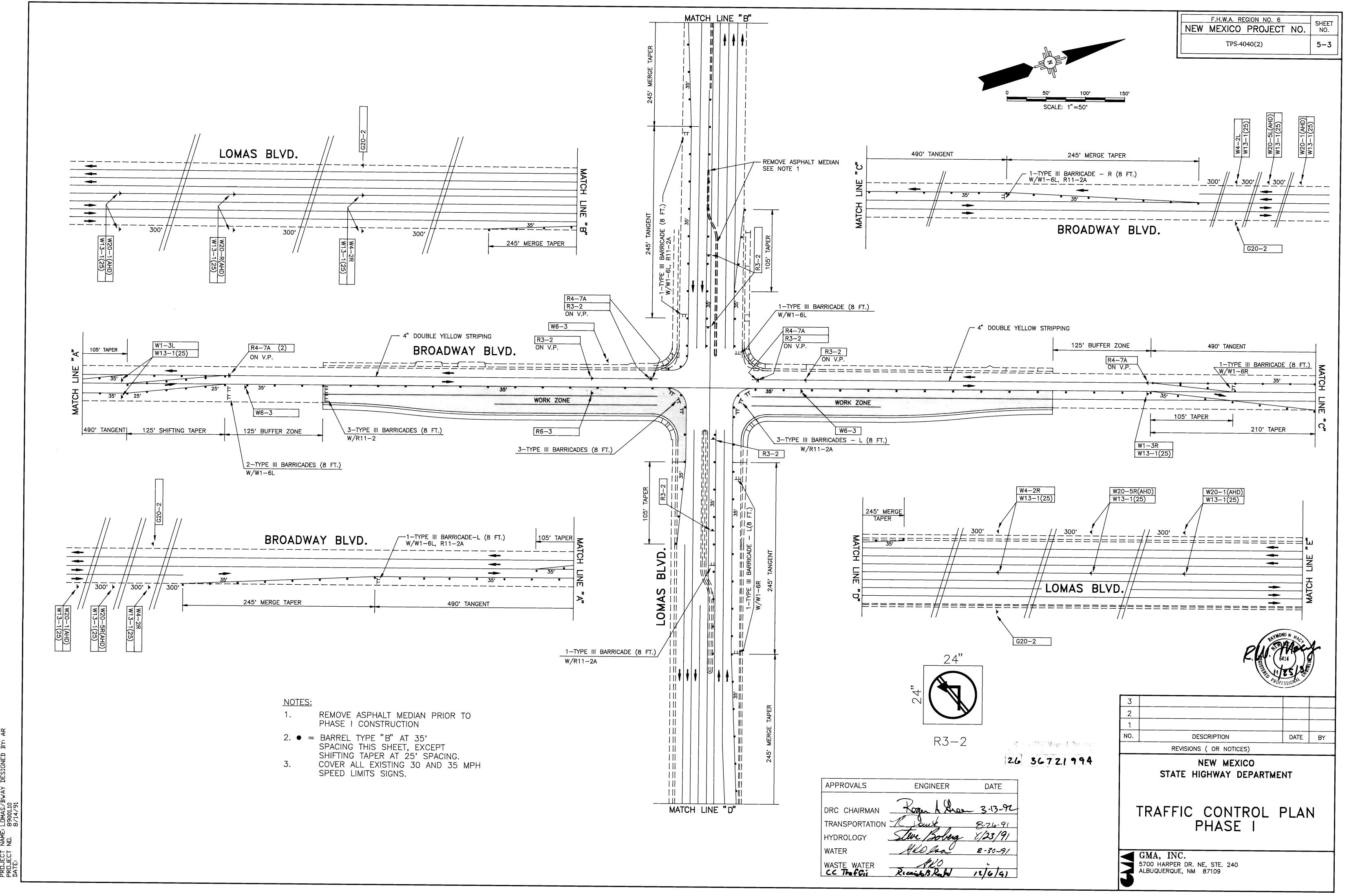
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APPROVALS	ENGINEER	DATE
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TRANSPORTATION =	Doude,	8-76-91
HYDROLOGY 💆	the Boberg	8/23/91
WATER	AROLLON	8-30-91
WASTE WATER	MRD Honds	1 12/6/4/
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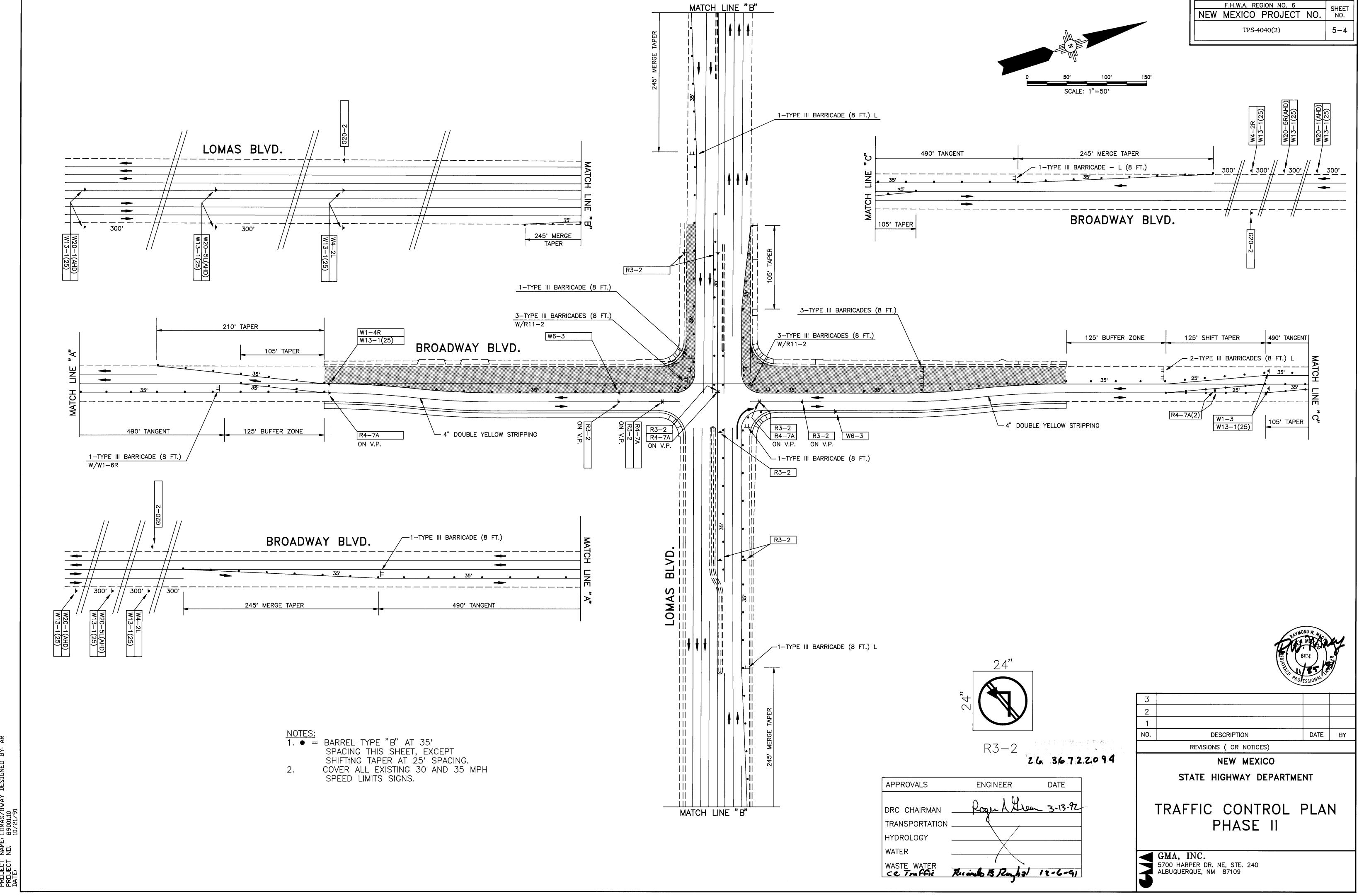
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	REVISIONS (OR NOTICES)		

NEW MEXICO
STATE HIGHWAY DEPARTMENT

TRAFFIC CONTROL NOTES

BJG			
DRAWN BY	DESIGNED BY		
TRSEQNOT	JECT NAME LOMAS/BROADWAY DESIGNED BY	89001.00	707 077 0
NAME	JECT NAME	JECT ND.	





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() SIGN(S) AND/OR SUPPORT(S) USED IN OTHER CONSTRUCTION PHASE(S). NO ADDITIONAL PAYMENT THEREFORE.

* NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

TRAFFIC CONTROL PLANS AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE.
THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED. PLACING, RELOCATING AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS, OR AS DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRICE.

2. ALL TRAFFIC CONTROL DEVICES FOR DETOURS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION—SECTION 702 (1984 EDITION) AND CHAPTER VIOLET OF THE 1988 EDITION MUTCO AND CURRENT REVISIONS.

3. ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.

4. BID ITEM—(STEEL POSTS AND BASE POSTS FOR DETOUR SIGNS). THE CONTRACTOR SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST AS PER NEW MEXICO STANDARD SERIALS—SN 75—1, TBAC—001—10 & TBAC—002—11.

5. BID ITEM—(TYPE III BARRICADE—6'OR 8'). TYPE III BARRICADES SHALL BE ORANGE
ON WHITE REFLECTORIZED. ATTACHED TYPE "A" FLASHING BEACONS, PLYWOOD ARROW AND ROAD CLOSED SIGNS ARE TO BE INCIDENTAL TO BID PRICE.

3. BID ITEM—(TYPE I BARRICADE—2'). TYPE I BARRICADE SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED HIGH INTENSITY FLASHING BEACON ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT—PER EACH.

BID ITEM—(VERICAL PANELS, SINGLE OR BACK TO BACK 8"X24"). VERTICAL PANELS SHALL BE ORANGE ON WHITE REFLECTORIZED SHEETING, .060 MIN 6061 T—6. PANELS TO BE MOUNTED ON DRIVEDOWN POST EITHER 3' DRIVE OR ON STANCHION. BID UNIT—PER EACH.

FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJECT MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18"X18" MIN) IN ACCORDANCE WITH THE MUTCD. THE FLAGGER, APPLICABLE SIGNS AND OTHER RELATED ITEMS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, NO PAYMENT OR MEASUREMENT WILL BE MADE THEREFORE.

BID ITEM—(CHANNELIZATION DEVICE BARREL TYPE "A" OR "B"). CHANNELIZATION DEVICE BARRELS SHALL BE ORANGE ON WHITE REFLECTORIZED. TYPE "A" REQUIRES NO BEACON. TYPE "B" SHALL BE EQUIPPED WITH BEACON AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 702—021 (G), 1984 EDITION.

10. THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING AND CON—
TROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED BY THE DISTRICT
TRAFFIC ENGINEER. IF, BECAUSE OF FIELD CONDITION AS ACTUALLY ENCOUNTERED, SUCH
CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CON—
SIDERED AN AMMENDMENT TO THE PLANS AND SPECIFICATION AS OF THE DATE OF THE CHANGE.

11. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN TO THE DISTRICT TRAFFIC ENGINEER FOR APPROVAL.

12. NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVED TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.

13. ITEM 704010 IS INCLUDED FOR PAVEMENT STRIPING BETWEEN SURFACING LIFTS AS DIRECTED BY THE PROJECT MANAGER.

14. BID ITEM—(SAND BARREL VEHICULAR IMPACT ATTENUATOR UNIT). SAND BARREL VEHICULAR IMPACT ATTENUATOR UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF STATE OF NEW MEXICO AT COMPLETION OF CONSTRUCTION AND SHALL NOT REVERT TO THE CONTRACTOR. THIS ITEM SHALL BE DELIVERED AND STOCKPILED AT LOCATIONS DIRECTED BY THE PROJECT MANAGER..

15. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PERSON ON SITE DURING WORKING HOURS AND ON CALL DURING NON—WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONTROL, OR AS DIRECTED BY THE PROJECT MANAGER.

16. ALL NON—APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON—LIGHT TRANSMITTING MATERIAL. ALL REMAINING, NON—APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.

17. BID ITEM—(PRECAST CONCRETE WALL BARRIER). PRECAST CONC. WALL BARRIER WHEN USED FOR TRAFFIC CONTROL PURPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF THE PROJECT. PRECAST CONC. WALL BARRIER SHALL NOT REVERT TO THE CONTRACTOR OR UNLESS OTHERWISE SPECIFIED.

PRECAST CWB SHALL BE FABRICATED IN EITHER 10' UNITS OR 12.5' UNITS TO THE DIMENSIONS SHOWN ON PLANS. ALL PRECAST CWB UTILIZED IN THE WORK SHALL BE OF SAME LENGTH AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 503-PORTLAND CEMENT CONCRETE, SECTION 504.022 (C)—STEEL REINFORCEMENT.

WHEN NEW PRECAST CWB IS CALLED FOR ON PLAN, THE CWB SHALL BE DELIVERED TO THE DES-IGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR IS TO UNLOAD AND STOCKPILE PRECAST CWB AS DIRECTED BY THE PROJECT MANAGER. HAULING AND STOCKPILING OF NEW PRECAST CWB TO DESIGNATED AREA AND SITE SHALL BE INCIDENTAL TO THE ITEM FOR PRECAST CWB.

THE FOLLOWING PROCEDURES SHALL GOVERN ALL TRAFFIC CONTROL PLANS INVOLVING SINGLE LANE TRAFFIC. THE REGULATORY AND ADVISORY SPEED LIMIT POSTINGS, AS PART OF THESE TRAFFIC CONTROL PLANS ARE SHOWN ON THE SIGN FACE DETAIL SHEET. FOR VARIATION IN THE TRAFFIC CONTROL PLAN, AN ENGINEERING STUDY SHALL BE DONE AT THE PROJECT SITE. THE ENGINEERING STUDY SHALL BE PERFORMED BY THE DISTRICT TRAFFIC ENGINEER, IN ACCORDANCE WITH SECTION 2B-10 OF THE 1988 EDITION OF THE MUTCD AND CURRENT REVISIONS.

19 EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1988 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.

F.H.W.A. REGION NO. 6

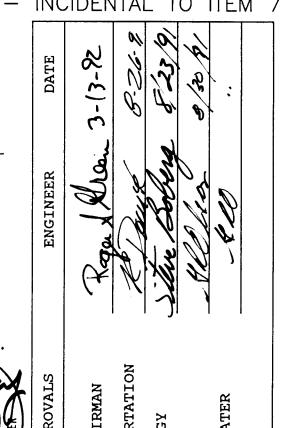
NEW MEXICO PROJECT NO. SHEET NO. TPS-4040(2)

5-5

SUMMARY OF QUANTITIES

ITEM NO.	BID ITEM	UNITS	TOTAL
606403	PRECAST CONCRETE WALL BARRIER TYPE II	LIN. FT.	0
606012	W-BEAM / BARREL WALL BARRIER	LIN. FT.	0
606405	HAULING OF PRECAST WALL BARRIER	LIN. FT.	0
606410	RESETTING OF PRECAST WALL BARRIER	LIN. FT.	0
702000	CONSTRUCTION SIGNING	SQ. FT.	562
702103	STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	LIN. FT.	0
702145	PORTABLE SIGN SUPPORT	EACH	33
702205	BARRICADE, TYPE I	EACH	0
702210	BARRICADE, TYPE II	EACH	0
702214	BARRICADE, TYPE III (6 FT.)	EACH	0
702215	BARRICADE, TYPE III (8 FT.)	EACH	18
702330	VERTICAL PANEL, SINGLE TYPE	EACH	5
702335	VERTICAL PANEL, BACK TO BACK	EACH	0
702349	CHANNELIZATION DEVICE BARREL TYPE "A"	EACH	0
702350	CHANNELIZATION DEVICE BARREL TYPE "B"	EACH	153
702360	CONSTRUCTION TRAFFIC MARKERS	EACH	0
702400	SEQUENTIAL ARROW DISPLAY	EACH	0
703120	TUBULAR TRAFFIC MARKER	EACH	0
703210	REFLECTIVE BARRIER DELINEATOR	EACH	0
704010	REFLECTORIZED PAINTED MARKINGS	LIN. FT.	2500
704015	ADHESIVIE MARKING TAPE FOR CONSTRUCTION ZONES	LIN. FT.	0
704016	ADHESIVE NON-METALLIC MARKING TAPE	LIN. FT.	0
717140	TEMPORARY REFLECTIVE PAVEMENT MARKER TYPE "TD"	LIN. FT.	0
720015	SAND-BARREL VEHICULAR IMPACT ATTENUATOR UNIT	LIN. FT.	0
721001	REMOVAL OF PAVEMENT STRIPE	LIN. FT.	2500
*	CLEANING OF REFLECTIVE SURFACES ON TRAFFIC CONTROL DEVICES	SQ. FT.	562

* - INCIDENTAL TO ITEM 702000



| 26 36722194 | 3 | 2 | 1 | 1 | NO. | DESCRIPTION | DATE | BY | REVISIONS (OR CHANGE NOTICES) | NEW MEXICO

STATE HIGHWAY DEPARTMENT

TRAFFIC CONTROL DEVICES
FOR CONSTRUCTION
SUMMARY OF QUANTITIES

() SIGN(S) AND/OR SUPPORT(S) USED IN OTHER CONSTRUCTION PHASE(S)

* NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED. PLACING, RELOCATING

AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLANS, OR AS

DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRICE

1. TRAFFIC CONTROL PLANS AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE.

NO ADDITIONAL PAYMENT THEREFORE.

TOTAL SIGN

PHASE II (BROADWAY BLVD. SIGNING)

(16)

(4)

(16)

(4)

SIGN

CODE

W20-1 (AHEAD)

W20-5L(AHEAD)

W13-1 (25)

W13-1 (25)

POST LENGTHS

' LEFT | CTR. |RIGHT|TOTA

(1)

(1)

ALL TRAFFIC CONTROL DEVICES FOR DETOURS SHALL COMPLY WITH STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION-SECTION 702 (1984 EDITION) AND CHAPTER VI OF THE 1988 EDITION MUTCD AND CURRENT REVISIONS.

MOUNTING REQUIREMENTS
FLANGED DRIVEDOWN PORTABLE

CHANNEL POSTS
SIGN
NO. TOTAL
LENGTH ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.

> BID ITEM-(STEEL POSTS AND BASE POSTS FOR DETOUR SIGNS). THE CONTRACTOR SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST AS PER NEW MEXICO STANDARD SERIALS-SN 75-1, TBAC-001-10 & TBAC-002-11.

> BID ITEM-(TYPE III BARRICADE-6' OR 8'). TYPE III BARRICADES SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED TYPE "A" FLASHING BEACONS, PLYWOOD ARROW AND ROAD CLOSED SIGNS ARE TO BE INCIDENTAL TO BID PRICE.

BID ITEM-(TYPE | BARRICADE-2'). TYPE | BARRICADE SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED HIGH INTENSITY FLASHING BEACON ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT-PER EACH.

BID ITEM—(VERICAL PANELS, SINGLE OR BACK TO BACK 8"X24"). VERTICAL PANELS SHALL BE ORANGE ON WHITE REFLECTORIZED SHEETING, .060 MIN 6061 T-6. PANELS TO BE MOUNTED ON DRIVEDOWN POST EITHER 3' DRIVE OR ON STANCHION. BID UNIT-PER EACH.

FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJECT MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18"X18" MIN) IN ACCORDANCE WITH THE MUTCD. THE FLAGGER, APPLICABLE SIGNS AND OTHER RELATED ITEMS SHALL BE CONSIDERED INCID-ENTAL TO CONSTRUCTION, NO PAYMENT OR MEASUREMENT WILL BE MADE THEREFORE.

BID ITEM—(CHANNELIZATION DEVICE BARREL TYPE "A" OR "B"). CHANNELIZATION DEVICE BARRELS SHALL BE ORANGE ON WHITE REFLECTORIZED. TYPE "A" REQUIRES NO BEACON. TYPE "B" SHALL BE EQUIPPED WITH BEACON AS SPECIFIED IN THE STANDARD AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 702-021 (G), 1984 EDITION.

10. THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING AND CON-TROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED BY THE DISTRICT TRAFFIC ENGINEER. IF, BECAUSE OF FIELD CONDITION AS ACTUALLY ENCOUNTERED, SUCH CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CON-SIDERED AN AMMENDMENT TO THE PLANS AND SPECIFICATION AS OF THE DATE OF THE CHANGE.

11. THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL PLAN TO THE DISTRICT TRAFFIC ENGINEER FOR APPROVAL.

12. NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVED TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.

13. ITEM 704010 IS INCLUDED FOR PAVEMENT STRIPING BETWEEN SURFACING LIFTS AS DIRECTED BY THE PROJECT MANAGER.

14. BID ITEM—(SAND BARREL VEHICULAR IMPACT ATTENUATOR UNIT). SAND BARREL VEHICULAR IMPACT ATTENUATOR UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF STATE OF NEW MEXICO AT COMPLETION OF CONSTRUCTION AND SHALL NOT REVERT TO THE CONTRACTOR. THIS ITEM SHALL BE DELIVERED AND STOCKPILED AT LOCATIONS DIRECTED BY THE PROJECT MANAGER..

15. THE CONTRACTOR SHALL HAVE A RESPONSIBLE PERSON ON SITE DURING WORKING HOURS AND ON CALL DURING NON-WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONTROL, OR AS DIRECTED BY THE PROJECT MANAGER.

16. ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON-LIGHT TRANSMITTING MATERIAL. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.

17. BID ITEM-(PRECAST CONCRETE WALL BARRIER). PRECAST CONC. WALL BARRIER WHEN USED FOR TRAFFIC CONTROL PURPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF THE PROJECT. PRECAST CONC. WALL BARRIER SHALL NOT REVERT TO THE CONTRACTOR OR UNLESS OTHERWISE SPECIFIED.

PRECAST CWB SHALL BE FABRICATED IN EITHER 10' UNITS OR 12.5' UNITS TO THE DIMENSIONS SHOWN ON PLANS. ALL PRECAST CWB UTILIZED IN THE WORK SHALL BE OF SAME LENGTH AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 503-PORTLAND CEMENT CONCRETE, SECTION 504.022 (C) -STEEL REINFORCEMENT.

WHEN NEW PRECAST CWB IS CALLED FOR ON PLAN, THE CWB SHALL BE DELIVERED TO THE DES-IGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR IS TO UNLOAD AND STOCKPILE PRECAST CWB AS DIRECTED BY THE PROJECT MANAGER. HAULING AND STOCKPILING OF NEW PRECAST CWB TO DESIGNATED AREA AND SITE SHALL BE INCIDENTAL TO THE ITEM FOR PRECAST CWB.

18. THE FOLLOWING PROCEDURES SHALL GOVERN ALL TRAFFIC CONTROL PLANS INVOLVING SINGLE LANE TRAFFIC. THE REGULATORY AND ADVISORY SPEED LIMIT POSTINGS, AS PART OF THESE TRAFFIC CONTROL PLANS ARE SHOWN ON THE SIGN FACE DETAIL SHEET. FOR VARIATION IN THE TRAFFIC CONTROL PLAN, AN ENGINEERING STUDY SHALL BE DONE AT THE PROJECT SITE. THE ENGINEERING STUDY SHALL BE PERFORMED BY THE DISTRICT TRAFFIC ENGINEER,

IN ACCORDANCE WITH SECTION 2B-10 OF THE 1988 EDITION OF THE MUTCD AND CURRENT REVISIONS.

EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1988 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS 19 EACH SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.

F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO. NO. 5-6 TPS-4040(2)

SUMMARY OF QUANTITIES

ITEM NO.	BID ITEM	UNITS	TOTAL
606403	PRECAST CONCRETE WALL BARRIER TYPE II	LIN. FT.	0
606012	W-BEAM / BARREL WALL BARRIER	LIN. FT.	0
606405	HAULING OF PRECAST WALL BARRIER	LIN. FT.	0
606410	RESETTING OF PRECAST WALL BARRIER	LIN. FT.	0
702000	CONSTRUCTION SIGNING	SQ. FT.	180
702103	STEEL POSTS AND BASE POSTS FOR CONSTRUCTION SIGNING	LIN. FT.	0
702145	PORTABLE SIGN SUPPORT	EACH	12
702205	BARRICADE, TYPE I	EACH	0
702210	BARRICADE, TYPE II	EACH	0
702214	BARRICADE, TYPE III (6 FT.)	EACH	0
702215	BARRICADE, TYPE III (8 FT.)	EACH	17
702330	VERTICAL PANEL, SINGLE TYPE	EACH	0
702335	VERTICAL PANEL, BACK TO BACK	EACH	0
702349	CHANNELIZATION DEVICE BARREL TYPE "A"	EACH	0
702350	CHANNELIZATION DEVICE BARREL TYPE "B"	EACH	154
702360	CONSTRUCTION TRAFFIC MARKERS	EACH	0
702400	SEQUENTIAL ARROW DISPLAY	EACH	0
703120	TUBULAR TRAFFIC MARKER	EACH	0
703210	REFLECTIVE BARRIER DELINEATOR	EACH	0
704010	REFLECTORIZED PAINTED MARKINGS	LIN. FT.	2500
704015	ADHESIVIE MARKING TAPE FOR CONSTRUCTION ZONES	LIN. FT.	0
704016	ADHESIVE NON-METALLIC MARKING TAPE	LIN. FT.	0
717140	TEMPORARY REFLECTIVE PAVEMENT MARKER TYPE "TD"	LIN. FT.	0
720015	SAND-BARREL VEHICULAR IMPACT ATTENUATOR UNIT	LIN. FT.	0
721001	REMOVAL OF PAVEMENT STRIPE	LIN. FT.	2500
*	CLEANING OF REFLECTIVE SURFACES ON TRAFFIC CONTROL DEVICES	SQ. FT.	126
* INCIDENT	TAL TO ITEM 702000	L.,,,,	

DATE BY DESCRIPTION REVISIONS (OR CHANGE NOTICES)

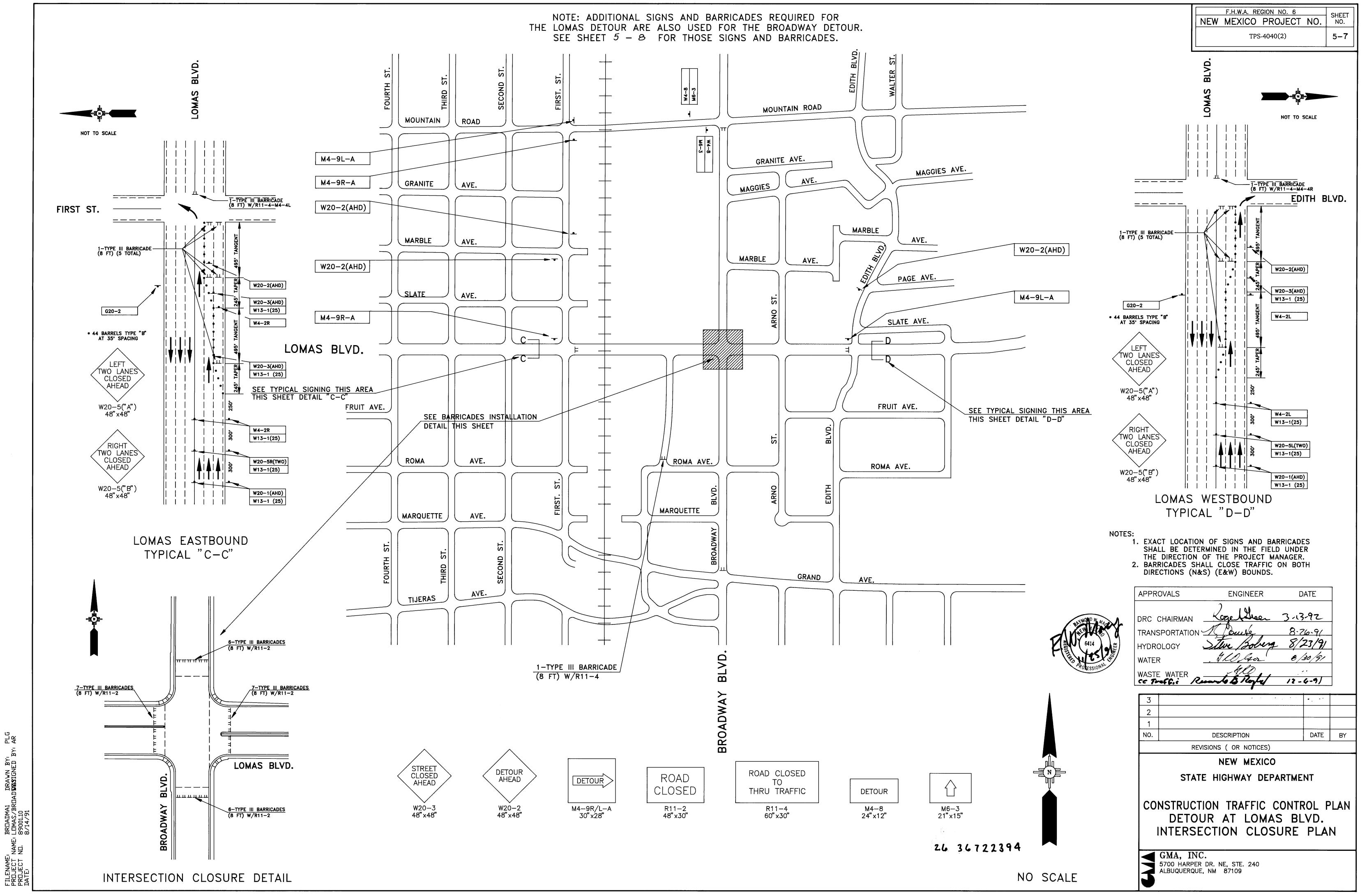
NEW MEXICO

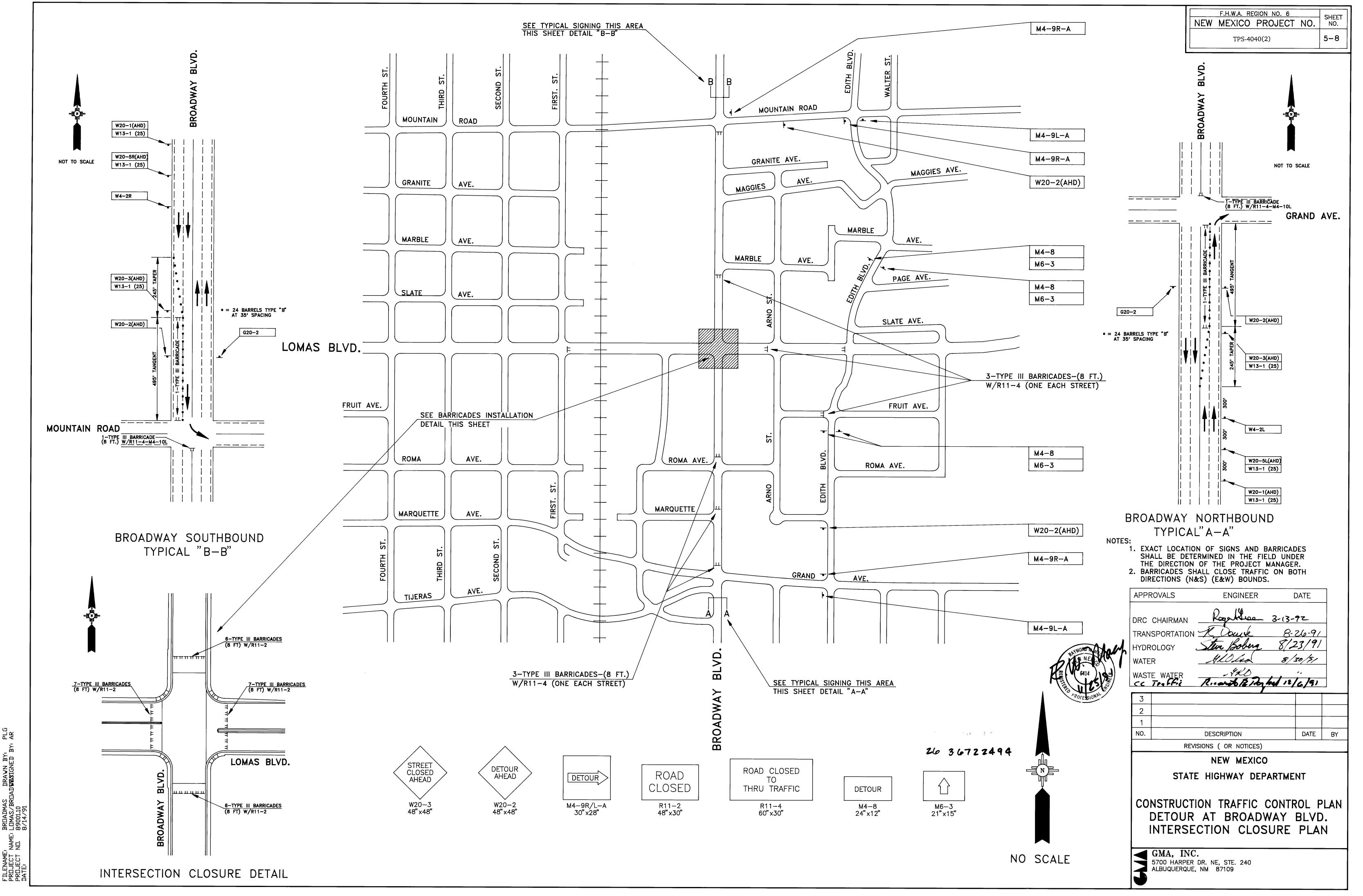
STATE HIGHWAY DEPARTMENT

TRAFFIC CONTROL DEVICES FOR CONSTRUCTION SUMMARY OF QUANTITIES

GMA, INC. 5700 HARPER DR. NE, STE. 240 ALBUQUERQUE, NM 87109

26 36722294





	F.H.W.A. N. M. P.
	Region No. STATE
CONTROL PLAN AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE.	6 NEW TPS-4040(2)
CONTROL PLAN AND QUANTITIES MAI VANTAS VEED. PLACING, RELOCATION,	

) TRAFFIC CONTROL PLAN AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE.

THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED. PLACING, RELOCATION,

AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLAN, OR AS

DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRICE.

LENGTH 2.) ALL TRAFFIC CONTROL DEVICES FOR DETOURS SHALL COMPLY WITH STANDARD SPECIFICATION - SECTION 702 (1984 EDITION) AND CATIONS FOR ROAD AND BRIDGE CONSTRUCTION - SECTION 702 (1984 EDITION) AND CHAPTER VI OF THE 1978 EDITION MUTCD.

3.) ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHERWISE SPECIFIED. ALL CONSTRUCTION BARRICADES AND CHANNELIZATION DEVICES SHALL BE ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.

4.) BID ITEM - (STEEL POSTS AND BASE POSTS FOR DETOUR SIGNS). THE CONTRACTOR

SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE

DRIVEDOWN POST AS PER NEW MEXICO STANDARD SERIALS. REFER TO SERIALS SN 75-1,

TBAC-001-10 AND TBAC-002-11.

5.) BID ITEM - (TYPE III BARRICADE - 6' OR B'). TYPE III BARRICADES SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED TYPE "A" FLASHING BEACONS. PLYWOOD ARROW AND ROAD CLOSED SIGNS ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT—PER EACH.

6.) BID ITEM - (TYPE I BARRICADE-8'). TYPE I BARRICADE SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED HIGH INTENSITY FLASHING BEACON ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT — PER EACH.

.) BID ITEM — (VERTICAL PANELS, SINGLE TYPE OR BACK TO BACK 8"X 24"). VERTICAL PANELS SHALL BE ORANGE ON WHITE REFLECTORIZED SHEETING .060 MIN 6061 T-6.

PANELS TO BE MOUNTED ON DRIVE-DOWN POST EITHER 3' DRIVE OR ON STANCHION.

BID UNIT - PER EACH.

8.) FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJECT MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18"X18" MIN.) IN ACCORDANCE WITH THE MUTCO. THE FLAGGER, APPLICABLE SIGNS AND OTHER RELATED ITEMS SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, NO PAYMENT OR MEASUREMENT WILL BE MADE THEREFORE.

DEVICE BARRELS SHALL BE ORANGE ON WHITE REFLECTORIZED. TYPE "A" REQUIRES NO BEACON. TYPE "B" SHALL BE EQUIPPED WITH BEACON AS SPECIFIED IN THE STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION 702.021 (g), 1984 EDITION.

IO) THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING AND CONTROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED BY THE DISTRICT HIGHWAY ENGINEER IF, BECAUSE OF FIELD CONDITION AS ACTUALLY ENCOUNTERED, SUCH CHANGES ARE DESIRABLE AT THE DISCRETION OF THE PROJECT MANAGER. THESE CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CONSIDERED AN AMENDMENT TO THE PLANS AND SPECIFICATION AS OF THE DATE OF THE CHANGE.

THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTROL.
PLAN TO THE DISTRICT HIGHWAY ENGINEER FOR APPROVAL.

12) NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVED TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.

13) ITEM 704010 IS INCLUDED FOR PAVEMENT STRIPING BETWEEN SURFACING LIFTS AS DIRECTED BY THE PROJECT MANAGER.

[4] BID ITEM-(SAND BARREL VEHICULAR IMPACT ATTENUATOR UNIT). SAND BARREL VEHICULAR AFTENUATOR UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF STATE OF NEW MEXICO AT COMPLETION OF CONSTRUCTION AND SHALL NOT REVERT TO THE CONTRACTOR. THIS ITEM SHALL BE DELIVERED AND STOCK — PILED AT LOCATIONS DIRECTED BY THE PROJECT MANAGER.

IS.) THE CONTRACTOR SHALL HAVE A <u>RESPONSIBLE PERSON</u> ON SITE DURING WORKING HOURS AND ON CALL DURING NON WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONTROL, OR AS DIRECTED BY PROJECT MANAGER.

16) ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN OPAQUE NON-LIGHT TRANSMITTING MATERIAL. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.

7.) BID ITEM - (PRECAST CONCRETE WALL BARRIER). PRECAST CONCRETE WALL BARRIER WHEN USED FOR TRAFFIC CONTROL PURPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF THE PROJECT. PRECAST CONCRETE WALL BARRIER SHALL NOT REVERT TO THE CONTRACTOR OR UNLESS OTHERWISE SPECIFIED.

PRECAST CONCRETE WALL BARRIER SHALL BE FABRICATED IN EITHER 10' UNITS OR 12.5' UNITS TO THE DEMENSIONS SHOWN ON PLANS. ALL PRECAST CONCRETE WALL BARRIER UTILIZED IN THE WORK SHALL BE OF THE SAME LENGTH AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 503 - PORTLAND CEMENT CONCRETE, SECTION 504.022(C) - STEEL REINFORCEMENT.

WHEN NEW PRECAST CONCRETE WALL BARRIER IS CALLED FOR ON PLAN, THE WALL BARRIER SHALL BE DELIVERED TO THE DESIGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR IS TO UNLOAD AND STOCKPILE PRECAST CONCRETE WALL BARRIER AS DIRECTED BY THE PROJECT MANAGER. HUALING AND STOCKPILING OF NEW PRECAST CONCRETE CONCRETE WALL BARRIER TO DESIGNATED AREA AND SITE SHALL BE INCIDENTAL TO THE ITEM FOR PRECAST CONCRETE WALL BARRIER. THE DESIGNATED AREA IS

APPROVALS ENGINEER DATE

APPROVALS
ENGINEER
DATE

DRC CHAIRMAN
TRANSPORTATION
HYDROLOGY
WATER
WASTE WATER

HANGE Boling
WASTE WATER

SUMMARY OF QUANTITIES.

ITEM Nº	BID ITEM	UNITS		TOTAL
702000	CONSTRUCTION SIGNING	SQ. FT.		
702103		LIN. FT.		
702105	BARRICADE, TYPE I	EACH		
702210	BARRICADE, TYPE II	EACH		
702215	BARRICADE, TYPE III 8 FT.	EACH		
702214	BARRICADE TYPE III 6 FT.	EACH		
702330	VERTICAL PANEL, SINGLE TYPE	EACH		
702335	VERTICAL PANEL, BACK TO	EACH		
702360	CONSTRUCTION TRAFFIC MARKER	EACH		
702145	PORTABLE SIGN SUPPORT	EACH		
702349	CHANNELIZATION DEVICE - (BARREL)-TYPE "4"	EACH		
702350	CHANNELIZATION DEVICE (BARREL) - TYPE "B"	EACH		
702400	SEQUENTIAL ARROW DISPLAY	EACH		
703210	REFLECTIVE BARRIER DELINEATOR	EACH		
703120	TUBULAR TRAFFIC MARKER	EACH	V	
702365	TRAFFIC CONES	EACH		
704010	REFLECTORIZED PAINTED MARKINGS	LIN.FT.		
704015	ADHESIVE MARKING TAPE FOR CONSTRUCTION ZONES	LIN.FT.		
704016	JADHESTVE NON-METALLIC IMARKING TAPE	LIN.FT.		\\
720015	SAND-BARREL VEHICULAR IMPACT ATTENUATOR UNIT	EACH		
721001	REMOVAL OF PAVEMENT STRIPE	LIN. FT.		
606402	PRECAST CONCRETE WALL BARRIER	LIN. FT.		
606012	W-BEAM / BARREL BARRIER	LIN.FT.		
606405	HAULING PRECAST CONCRETE WALL BARRIER	LIN.FT.		
606410	RESETTING OF PRECAST	LIN.FT.	/	\ <u></u>
717140	TEMPORARY REFLECTIVE "TO"	EACH	1/	
INCIDENTAL T	C CLEANING OF REFLECTIVE SURFACES O ON TRAFFIC CONTROL DEVICES	SQ. FT	<u>'</u>	\
	CALL STED BY BRO JECT MANAGER			

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NO.	DESCRIPTION	DATE	8
	REVISIONS (OR CHANGE N	IOTICES)	

NE.W MEXICO STATE HIGHWAY DEPARTMENT

TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DEVICES
FOR CONSTRUCTION
SUMMARY OF QUANTITIES

() SIGN (S) AND/OR SUPPORT (S) USED IN OTHER CONSTRUCTION PHASE (S). NO ADDITIONAL PAYMENT THEREFORE. ** NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

NO. SHEETS

SIGN	И ₅	TOTAL	PΛ	ST	LFNO	STHS	*			REQ				E-POSTS	THE CONTROL PLAN AND QUANTITIES MAY VARY AS FIELD CONDITIONS DICTAT
0005	OF	AREA SQ. FT.								0.1345 23.6 X 1		516.1		1 TOTAL	AND MAINTENANCE OF TRAFFIC CONTROL DEVICES AS SHOWN ON THE PLAN, OR DIRECTED BY THE PROJECT MANAGER ARE TO BE INCIDENTAL TO THE UNIT BID PRI
,		1	LEFT	;	`	TOTAL	<u>. </u>	L5/F1.	L5/F1.	23/16	21/2	SUPPORT	Nº Nº	LENGTH	2.) ALL TRAFFIC CONTROL DEVICES FOR DETOURS SHALL COMPLY WITH STANDARD SPECIF CATIONS FOR ROAD AND BRIDGE CONSTRUCTION - SECTION 702 (1984 EDITION) AND
				LOMAS	-	CLOSURE		1							CHAPTER VI OF THE 1978 EDITION MUTCD .
20-2		10		KIGHI	CANE	CLOSURE	<u> </u>	1				 			3.) ALL CONSTRUCTION SIGNING SHALL BE BLACK ON REFLECTIVE ORANGE UNLESS OTHER
O-5R (AHEAO)		(16)						<u>'</u>	 		i	(1)	- 		SPECIFIED. ALL CONSTRUCTION BARRICAGES AND CHANNELIZATION DEVICES SHALL E ORANGE ON WHITE REFLECTORIZED UNLESS OTHERWISE SPECIFIED.
O-5R(AHEAO)		(16)		1		Ì	<u> </u>		1			(1)	-i		
1-2R	/	(16)			İ		<u> </u>	Ì	<u> </u>			(1)			4.) BID ITEM - (STEEL POSTS AND BASE POSTS FOR DETOUR SIGNS). THE CONTRACTOR
O-5R (AHEAD)	'B" /	16		•	İ		ĺ		1			,!			SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST AS PER NEW MEXICO STANDARD SERIALS. REFER TO SERIALS SN
10-1 (AHEAO)	1	(16)		<u> </u>								(1)		<u> </u>	TBAC-001-10 AND TBAC-002-11.
					<u> </u>										TO THE THE PARTICIPATION OF STATE OF THE PARTICIPATION OF THE THE PARTICIPATION OF THE THE THE THE THE THE THE THE THE THE
		-26-			<u> </u>	!	<u> </u>		! !			-2-			5.) BID ITEM - (TYPE III BARRICADE - 6' OR 8'). TYPE III BARRICADES SHALL BE OR ON WHITE REFLECTORIZED. ATTACHED TYPE "A" FLASHING BEACONS. PLYWOOD
					<u> </u>										ARROW AND ROAD CLOSED SIGNS ARE TO BE INCIDENTAL TO BID PRICE. BID UNIT
					<u> </u>		<u> </u>			·					PER EACH.
							<u> </u>								6.) BID ITEM - (TYPE I BARRICADE-8'). TYPE I BARRICADE SHALL BE ORANGE ON WHITE REFLECTORIZED. ATTACHED HIGH INTENSITY FLASHING BEACON ARE TO BE INCIDES
	<u></u>			<u> </u>			<u> </u>					1			TO BID PRICE. BID UNIT — PER EACH.
					1	1	<u>!</u>								4
	<u></u>			1	1										7.) BID ITEM - (VERTICAL PANELS, SINGLE TYPE OR BACK TO BACK 8"X 24"). VERTICAL PANELS SHALL BE ORANGE ON WHITE REFLECTORIZED SHEETING .060 MIN 6061 T
		<u>. </u>					-		1						PANELS TO BE MOUNTED ON DRIVE-DOWN POST EITHER 3' DRIVE OR ON STANCHI
					Ì		 		1						BID UNIT - PER EACH.
					İ		İ		1						8.) FLAGGING SHALL BE PROVIDED FOR SAFETY AND/OR AS DIRECTED BY THE PROJE
	 				Ì										MANAGER. FLAGGERS SHALL USE STOP/SLOW PADDLES (18"X18" MIN.) IN ACCORDA WITH THE MUTCO. THE FLAGGER, APPLICABLE SIGNS AND OTHER RELATED IT
		İ							1						SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, NO PAYMENT OR MEAN
					Ì				1						RMENT WILL BE MADE THEREFORE.
		İ						Ì							9.) BID ITEM - (CHANNELIZATION DEVICE BARREL TYPE "A" OR TYPE "B"). CHANNELIZ
		Ī									-				DEVICE BARRELS SHALL BE ORANGE ON WHITE REFLECTORIZED. TYPE "A" REQUIRED NO BEACON. TYPE "B" SHALL BE EQUIPPED WITH BEACON AS SPECIFIED IN THE
															STANDARDS AND SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, SECTION
															702.021 (g), 1984 EDITION.
								<u> </u>							10) THE PROVISIONS AS INCLUDED IN THE PLANS AND SPECIFICATIONS FOR HANDLING A
					<u> </u>			<u> </u>							CONTROLLING TRAFFIC DURING CONSTRUCTION OF THE PROJECT MAY BE CHANGED THE DISTRICT HIGHWAY ENGINEER IF, BECAUSE OF FIELD CONDITION AS ACTUALLY
														-	T - ENCOUNTERED. SUCH CHANGES ARE DESIRABLE AT THE DISCRETION OF THE PRO
					-			-							MANAGER. THESE CHANGES WILL BE MADE BY WRITTEN INSTRUCTION TO THE CONTRACTOR, AND SHALL BE CONSIDERED AN AMENDMENT TO THE PLANS AND SP
															FICATION AS OF THE DATE OF THE CHANGE.
							-				•				II.) THE CONTRACTOR SHALL SUBMIT ANY PROPOSED CHANGES IN THE TRAFFIC CONTRO
									-		! 				PLAN TO THE DISTRICT HIGHWAY ENGINEER FOR APPROVAL.
															12) NO PAYMENT WILL BE MADE FOR ANY ADDITIONAL COST RESULTING FROM APPROVE
															TRAFFIC CONTROL PLAN CHANGES REQUESTED BY THE CONTRACTOR.
															13) ITEM 704010 IS INCLUDED FOR PAVEMENT STRIPING BETWEEN SURFAC NG LIFTS A
															DIRECTED BY THE PROJECT MANAGER.
		1							1						14) BID ITEM (SAND BARREL VEHICULAR IMPACT ATTENUATOR UNIT). SAND BARREL
			1												VEHICULAR AFTENUATOR UNLESS OTHERWISE SPECIFIED, SHALL BECOME THE PROPERTY OF STATE OF NEW MEXICO AT COMPLETION OF CONSTRUCTION AND STATE
			<u> </u>												NOT REVERT TO THE CONTRACTOR. THIS ITEM SHALL BE DELIVERED AND STOCK
															PILED AT LOCATIONS DIRECTED BY THE PROJECT MANAGER.
															IS.) THE CONTRACTOR SHALL HAVE A <u>RESPONSIBLE PERSON</u> ON SITE DURING WORKING DURING NON WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONT
															16) ALL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH A TRANSMITTING MATERIAL. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL D
															REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.
						<u> </u>	<u> </u>								- 17) BID ITEM - (PRECAST CONCRETE WALL BARRIER), PRECAST CONCRETE WALL BARRIER
					ļ	<u> </u>									I PURPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLE
					-		1								CONCRETE WALL PARRIER SHALL NOT REVERT TO THE CONTRACTOR OR UNLESS OTH PRECAST CONCRETE WALL BARRIER SHALL BE FABRICATED IN EITHER 10' UNITS
				<u> </u>				-							TO SHOWN ON PLANS, ALL PRECAST CONCRETE WALL BARRIER UTILIZED IN THE WOR
				1									_		AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN A PROVISIONS OF SECTION 503 - PORTLAND CEMENT CONCRETE, SECTION 504.03
					-										WHEN NEW PRECAST CONCRETE WALL BARRIER IS CALLED FOR ON PLAN, THE W
															HOUTHE DESIGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR
					-						-				CONCRETE WALL BARRIER AS DIRECTED BY THE PROJECT MANAGER. HUMLING CONCRETE WALL BARRIER TO DESIGNATED AREA AND SITE SHALL BE INCIDENT.
	<u> </u>	 			-		!								WALL BARRIER. THE DESIGNATED AREA IS
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() SIGN (S) AND/OR SUPPORT(S) USED IN OTHER CONSTRUCTION PHASE (S). NO ADDITIONAL PAYMENT THEREFORE.

* NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN.

HE CONTRACTOR SHALL HAVE A RESPONSIBLE PERSON ON SITE DURING WORKING HOURS AND ON CALL URING NON WORKING HOURS TO INSPECT AND MAINTAIN PROJECT TRAFFIC CONTROL, OR AS DIRECTED BY PROJECT MANAGER.

LL NON-APPLICABLE SIGNING SHALL BE REMOVED OR COVERED COMPLETELY WITH AN CPAQUE NON-LIGHT RANSMITTING MATERIAL. ALL REMAINING, NON-APPLICABLE TRAFFIC CONTROL DEVICES ARE TO BE REMOVED AND STORED AT LOCATIONS DESIGNATED BY THE PROJECT MANAGER.

ID ITEM - (PRECAST CONCRETE WALL BARRIER), PRECAST CONCRETE WALL BARRIER WHEN USED FOR TRAFFIC CONTROL URPOSES, SHALL BECOME THE PROPERTY OF THE STATE OF NEW MEXICO AT COMPLETION OF THE PROJECT. PRECAST CONCRETE WALL PARRIER SHALL NOT REVERT TO THE CONTRACTOR OR UNLESS OTHERWISE SPECIFIED. RECAST CONCRETE WALL BARRIER SHALL BE FABRICATED IN EITHER 10' UNITS OR 12.5' UNITS TO THE DEMENSIONS

SHOWN ON PLANS. ALL PRECAST CONCRETE WALL BARRIER UTILIZED IN THE WORK SHALL BE OF THE SAME LENGTH AND DESIGN, INTERMIXING WILL NOT BE ALLOWED. WORK SHALL BE DONE IN ACCORDANCE WITH APPLICABLE PROVISIONS OF SECTION 503 - PORTLAND CEMENT CONCRETE, SECTION 504.022(C) - STEEL REINFORCEMENT.

THEN NEW PRECAST CONCRETE WALL BARRIER IS CALLED FOR ON PLAN, THE WALL BARRIER SHALL BE DELIVERED O THE DESIGNATED AREA AND SITE AT COMPLETION OF WORK. CONTRACTOR IS TO UNLOAD AND STOCKPILE PRECAST ONCRETE WALL BARRIER AS DIRECTED BY THE PROJECT MANAGER. HUMLING AND STOCKPILING OF NEW PRECAST ONCRETE WALL BARRIER TO DESIGNATED AREA AND SITE SHALL BE INCIDENTAL TO THE ITEM FOR PRECAST CONCRETE VALL BARRIER. THE DESIGNATED AREA IS

ENGINEER APPROVALS DRC CHAIRMAN TRANSPORTATION 8-26.91 HYDROLOGY WASTE WATER

SHEET TOTAL N. M. P. NO. SHETTS Reside Na. | STATE TPS-4040(2) MEXICO

SUMMARY OF QUANTITIES.

702215 BARRICADE, TYPE III 8 FT. EACH 24						
TO2103 STEEL POSTS AND BASE POSTS LIN.FT. 0 TO2205 BARRICADE, TYPE I EACH 0 TO2210 BARRICADE, TYPE II EACH 0 TO2210 BARRICADE, TYPE III EACH 0 TO2215 BARRICADE, TYPE III B FT. EACH 24 TO2214 BARRICADE TYPE III 6 FT. EACH 0 TO2330 VERTICAL PANEL, SINGLE TYPE EACH 0 TO2335 VERTICAL PANEL, BACK TOPE EACH 0 TO2335 VERTICAL PANEL, BACK TYPE EACH 0 TO2349 CHANNELIZATION DEVICE EACH 17 TO2349 CHANNELIZATION DEVICE EACH 0 TO2350 CHANNELIZATION DEVICE EACH 0 TO2350 CHANNELIZATION DEVICE EACH 0 TO2350 CHANNELIZATION DEVICE EACH 0 TO3210 REFLECTIVE BARRIERDELINEATOR EACH 0 TO3210 REFLECTIVE BARRIERDELINEATOR EACH 0 TO3201 TUBULAR TBAFFIC MARKER EACH 0 TO4010 REFLECTORIZED PAINTED LIN.FT. 7500 TO4015 CONSTRUCTION ZONES EACH 0 TO4016 MARKING TAPE FOR LIN.FT. 0 TO4016 MARKING TAPE FOR LIN.FT. 0 TO4016 MARKING TAPE LIN.FT. 0 TO4016 MARKING TAPE LIN.FT. 0 TO4017 REMOVAL OF PAVEMENT STRIPE LIN.FT. 0 GO6402 PRECAST CONCRETE WALL LIN.FT. 0 GO6405 WBEAM BARREL BARRIER LIN.FT. 0 GO6410 WSEAM BARREL BARRIER LIN.FT. 0 GO6410 WSEAM BARREL BARRIER LIN.FT. 0 GO6410 WSEAM BARREL BARRIER LIN.FT. 0 FOR THE PROPARTY REFLECTIVE TO EACH 0 FINITEM TO2000 ON TRAFFIC CONTROL DEVICES SO.FT. 3000		ITEM Nº	BID ITEM	UNITS	DETOURING	TOTAL
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721001 REMOVAL OF PAVEMENT STRIPE LIN. FT. 606402 PRECAST CONCRETE WALL BARRIER 606012 W-BEAM / BARREL BARRIER 606405 HAULING PRECAST CONCRETE LIN. FT. 606410 RESETTING OF PRECAST WALL BARRIER 717140 TEMPORARY REFLECTIVE TO" INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES ITEM 702000 ON TRAFFIC CONTROL DEVICES SO. FT. 3000		704016	ADHESIVE NON-METALLIC	LIN.FT.		0
721001 REMOVAL OF PAVEMENT STRIPE LIN. FT. 606402 PRECAST CONCRETE WALL BARRIER 606012 W-BEAM / BARREL BARRIER 606405 HAULING PRECAST CONCRETE LIN. FT. 606410 RESETTING OF PRECAST WALL BARRIER 717140 TEMPORARY REFLECTIVE TO" INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES ITEM 702000 ON TRAFFIC CONTROL DEVICES SO. FT. 3000						
721001 REMOVAL OF PAVEMENT STRIPE LIN. FT. 606402 PRECAST CONCRETE WALL BARRIER 606012 W-BEAM / BARREL BARRIER LIN. FT. 606405 HAULING PRECAST CONCRETE WALL BARRIER 606410 RESETTING OF PRECAST WALL BARRIER 7171.40 TEMPORARY REFLECTIVE TO" INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES ITEM 702000 ON TRAFFIC CONTROL DEVICES 80. FT. 3000		720015	SAND-BARREL VEHICULAR IMPACT ATTENUATOR UNIT	EACH		0
606402 PRECAST CONCRETE WALL BARRIER 606012 W-BEAM / BARREL BARRIER LIN.FT. 606405 HAULING PRECAST CONCRETE WALL BARRIER 606410 RESETTING OF PRECAST WALL BARRIER 7171.40 TEMPORARY REFLECTIVE PAVE MENT MARKER TYPE "TO" INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES ITEM 702000 ON TRAFFIC CONTROL DEVICES SQ. FT. 3000						
606012 W-BEAM / BARREL BARRIER LIN.FT. 606405 HAULING PRECAST CONCRETE LIN.FT. 606410 RESETTING OF PRECAST LIN.FT. 717140 TEMPORARY REFLECTIVE "TD" EACH INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES SQ. FT. 172140 ON TRAFFIC CONTROL DEVICES SQ. FT.		721001	REMOVAL OF PAVEMENT STRIPE	LIN. FT.		2000
606012 W-BEAM / BARREL BARRIER LIN.FT. 606405 HAULING PRECAST CONCRETE LIN.FT. 606410 RESETTING OF PRECAST LIN.FT. 717140 TEMPORARY REFLECTIVE "TD" EACH INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES SQ. FT. 172140 ON TRAFFIC CONTROL DEVICES SQ. FT.						
606012 W-BEAM / BARREL BARRIER LIN.FT. 606405 HAULING PRECAST CONCRETE LIN.FT. 606410 RESETTING OF PRECAST LIN.FT. 717140 TEMPORARY REFLECTIVE "TD" EACH INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES SQ. FT. 172140 ON TRAFFIC CONTROL DEVICES SQ. FT.		606402	PRECAST CONCRETE WALL BARRIER	LIN. FT.		0
606410 RESETTING OF PRECAST LIN.FT. 717140 TEMPORARY REFLECTIVE "TO" EACH INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES SQ. FT. 1 702000 ON TRAFFIC CONTROL DEVICES 1 3000		606012		LIN.FT.		0
717140 TEMPORARY REFLECTIVE "TD" EACH INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES SQ. FT. ITEM 702000 ON TRAFFIC CONTROL DEVICES 3000		606405	WALL BARRIER	LIN.FT.		0
INCIDENTAL TO CLEANING OF REFLECTIVE SURFACES SQ. FT.		606410	RESETTING OF PRECAST WALL BARRIER	LIN.FT.		0
TEM 702000 ON TRAFFIC CONTROL DEVICES			TEMPORARY REFLECTIVE "TO"	EACH		0
		INCIDENTAL TO	CLEANING OF REFLECTIVE SURFACES ON TRAFFIC CONTROL DEVICES	SQ. FT.		3000

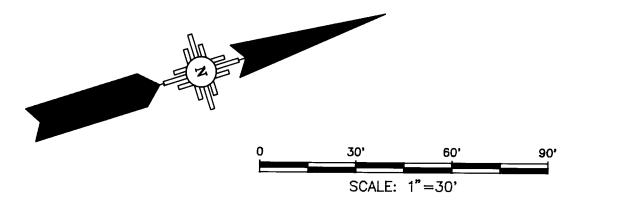
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	REVISIONS OR CHANGE NOTIC	E 5)	

NEW MEXICO STATE HIGHWAY DEPARTMENT

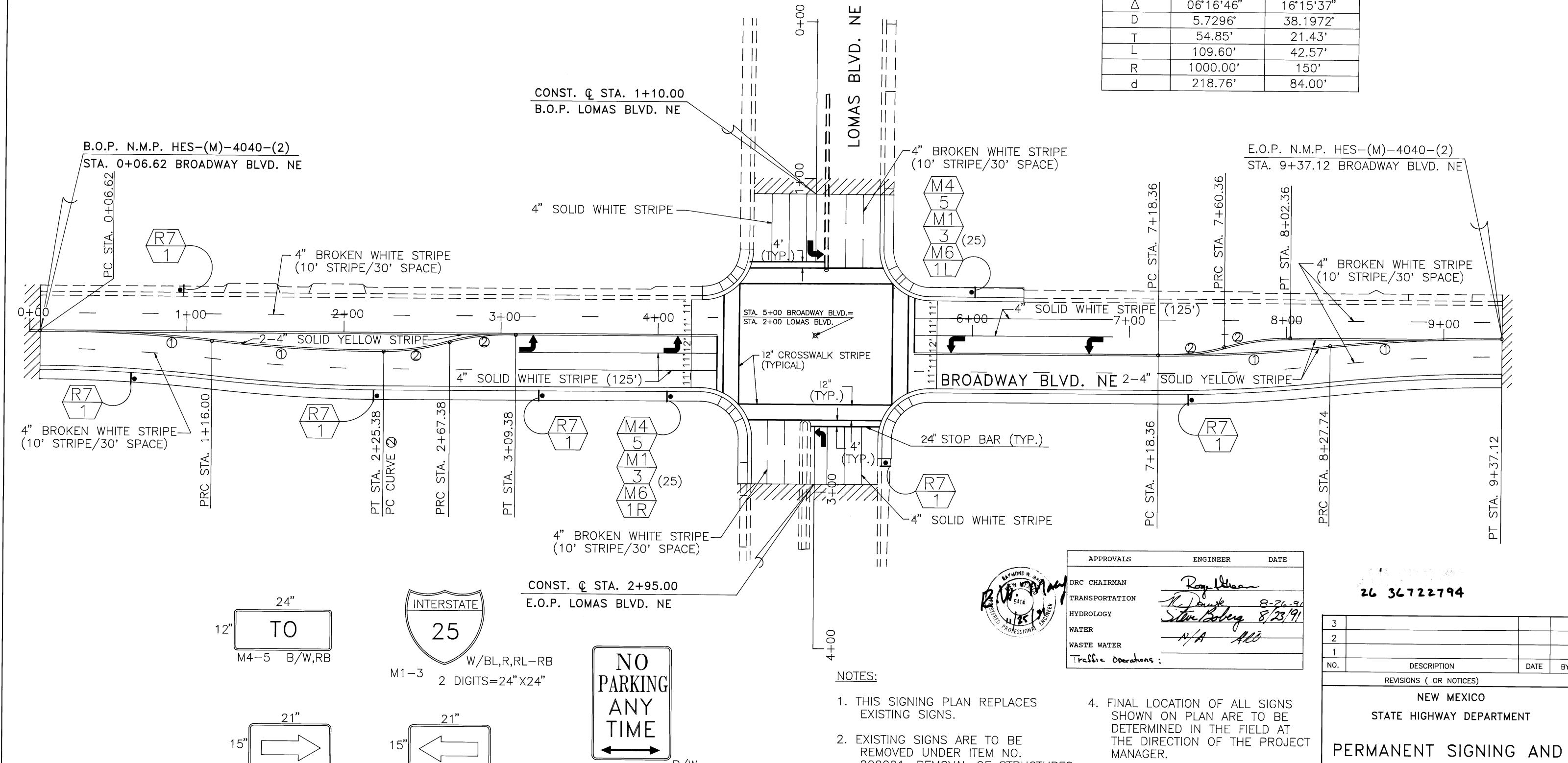
TRAFFIC DESIGN SECTION

TRAFFIC CONTROL DEVICES FOR CONSTRUCTION SUMMARY OF QUANTITIES









R7 - 112"X18"

M6-1R B/W,RB

M6-1L B/W,RB

- 202001, REMOVAL OF STRUCTURES AND OBSTRUCTIONS.
- 3. THE REMOVED SIGNS ARE TO BE STOCKPILED AS DIRECTED. BY THE PROJECT MANAGER.
- 5. FOR FURTHER INFORMATION AND DETAILS SEE THE STANDARD HIGHWAY SIGN MANUAL AND THE CURRENT EDITION OF THE M.U.T.C.D.

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NO.	DESCRIPTION	DATE	BY

MARKING PLAN

GARDNER, MASON & ASSOCIATES, INC.
ENGINEERS & PLANNERS
ALBUQUERQUE, NM

NEW MEXICO PROJECT NO TDS.4040(2)

PLYWOOD & ALUMINUM SIGNS

ITEM NO.	BID ITEM	UNITS	TOTAL
701010	PLYWOOD OR ALUMINUM PANEL SIGN		27
	REMOVING & RESETTING PLYWOOD OF	· · · · · · · · · · · · · · · · · · ·	0
	ALUMINUM PANEL SIGN		
701101	STEEL POST & BASE POST FOR	LIN. FI.	///
	PLYWOOD OR ALUMINUM PANEL SIGN		
718020	REFLECTORIZED LEFT ARROW	EA.	4

SIGN	NO.	TOTAL SIGN	P03	ST L	ENG	THS	FL,	ANG	ED		EMENTS DRIVEDOWN POSTS	1		ASE DSTS
CODE	OF SIGNS	AREA SQ.F [†] .	LEFT	CTR.	RIGHT	TOTAL		3.0 .B/FT	4.0	1-1/2 x1-1/2	2-3/16 x 2-3/16	2-1/2 x 2-1/2	NO.	TOTAL
R7-1	7	10.5		8		56	×			X			7	24.5
M4-5	/	2		11.5		11.5			X			×	/	3.5
× M1-3(25)	1	4		_		-								_
* M6-1R	/	2.19		-										
M4-5	/			11.5		11.5			X			X	/	3.5
M1-3(25)	/	4		-		-								-
M6-1L	/	2.19												
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• NO ADDITIONAL POST NEEDED. SIGN TO BE MOUNTED ON COMMON POST WITH ANOTHER SIGN

NOTES:

- F.H W.A. region N. 6 SHEET NEV NEXTOC PROCES 50. NO.

 TPS-4040(2) 6-2
- 1. QUANTITIES MAY VARY AS FIELD CONDITIONS DICTATE. THE CONTRACTOR WILL BE PAID FOR ACTUAL QUANTITIES USED.
- 2. ALL TRAFFIC CONTROL DEVICES SHALL COMPLY WITH THE N.M. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (CURRENT EDITION). ANY APPLICABLE SPECIAL PROVISION AND/OR SUPPLEMENTAL SPECIFICATION AND THE CURRENT EDITON OF THE M.U.T.C.D.
- 3. EACH REGULATORY AND WARNING SIGN FACE SHOWN ON PLANS SHALL MEET THE SPECIFICATIONS IN THE STANDARD HIGHWAY SIGNS MANUAL (1979 EDITION) FOR PROPER ARRANGEMENT, SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE SPECIFIED SIZE AND MESSAGE AS SHOWN ON PLANS.
- 4. BID ITEM STEEL POSTS AND BASE POSTS FOR PLYWOOD OR ALUMINUM PANEL SIGN. THE CONTRACTOR SHALL HAVE THE OPTION OF SUPPLYING EITHER THE FLANGED CHANNEL OR THE DRIVEDOWN POST CROSS-SECTION INDICATED. REFER TO NEW MEXICO STANDARDS: SN-75-1, SN-75-2, TB:C-001, AND TBAC-002.
- 5. WHERE EXISTING SIGNS ARE REPLACED WITH NEW BREAKAWAY EXTRUDED SIGNS, THE VOIDS LEFT FROM FOOTING REMOVAL ARE TO BE BACKFILLED AND THE PAD CONTOURED TO THE EXISTING TERRAIN, RESEEDING WILL NOT BE REQUIRED. THIS WORK IS CONSIDERED INCIDENTAL TO THE COMPLETION OF THE PROJECT.
- 6. PLYWOOD PANEL SIGNS SHALL BE MADE FROM ONE CONTINUOUS SHEET. NO VERTICAL OR HORIZONIAL SPLICING WILL BE PERMITTED.
- 7. SIGN POST LENGTHS UP TO 14 FT. SHALL BE CONTINUOUS. SPLICING WILL ONLY BE PERMITTED IF THE TOTAL LENGTH EXCEEDS 14 FT. A 12 FT LENGTH MAY BE USED TO OBTAIN LENGTHS OF 15 FT. AND ABOVE. ALL SPLICING MUST BE DONE WITHIN THE SIGN BLANK AREA AND NO SPLICING SHOULD EXTEND BELOW. SPLICING MUST CONFORM TO THE MANUFACTURES RECOMMENDATIONS AND PROCEDURES.
- 8. THE CONTRACTOR SHALL SUBMIT TO THE PROJECT MANAGER FOR APPROVAL, DRAWING OF SPECIAL SIGNS FACE DETAILS (THOSE OTHER THAN STANDARD M.U.T.C.D. SIGNS) SHOWING ARRANGEMENT AND SPACING OF LETTERS, LETTER HEIGHT, LETTER SERIES, SYMBOLS, AND BORDERS FOR THE MESSAGE INDICATED ON PLANS.
- 9. POST LENGTHS AND SECTIONS ARE BASED ON A 7'-O"
 CLEARANCE HEIGHT FROM THE TOP OF DRIVING LANE TO THE
 BOTTOM OF THE LOWEST SIGN. (EXCEPT WHERE INDICATED
 ON PLANS.) FINAL POST LENGTHS AND SECTIONS ARE TO BE
 DETERMINED IN THE FIELD BY THE CONTRACTOR AND APPROVED
 BY THE PROJECT MANAGER PRIOR TO THE FABRICATION OF
 SIGN POSTS.

26 36722894

APPROVALS

ENGINEER

DATE

DRC CHAIRMAN

TRANSPORTATION

HYDROLOGY

WATER

WASTE WATER

DATE

8-716-91

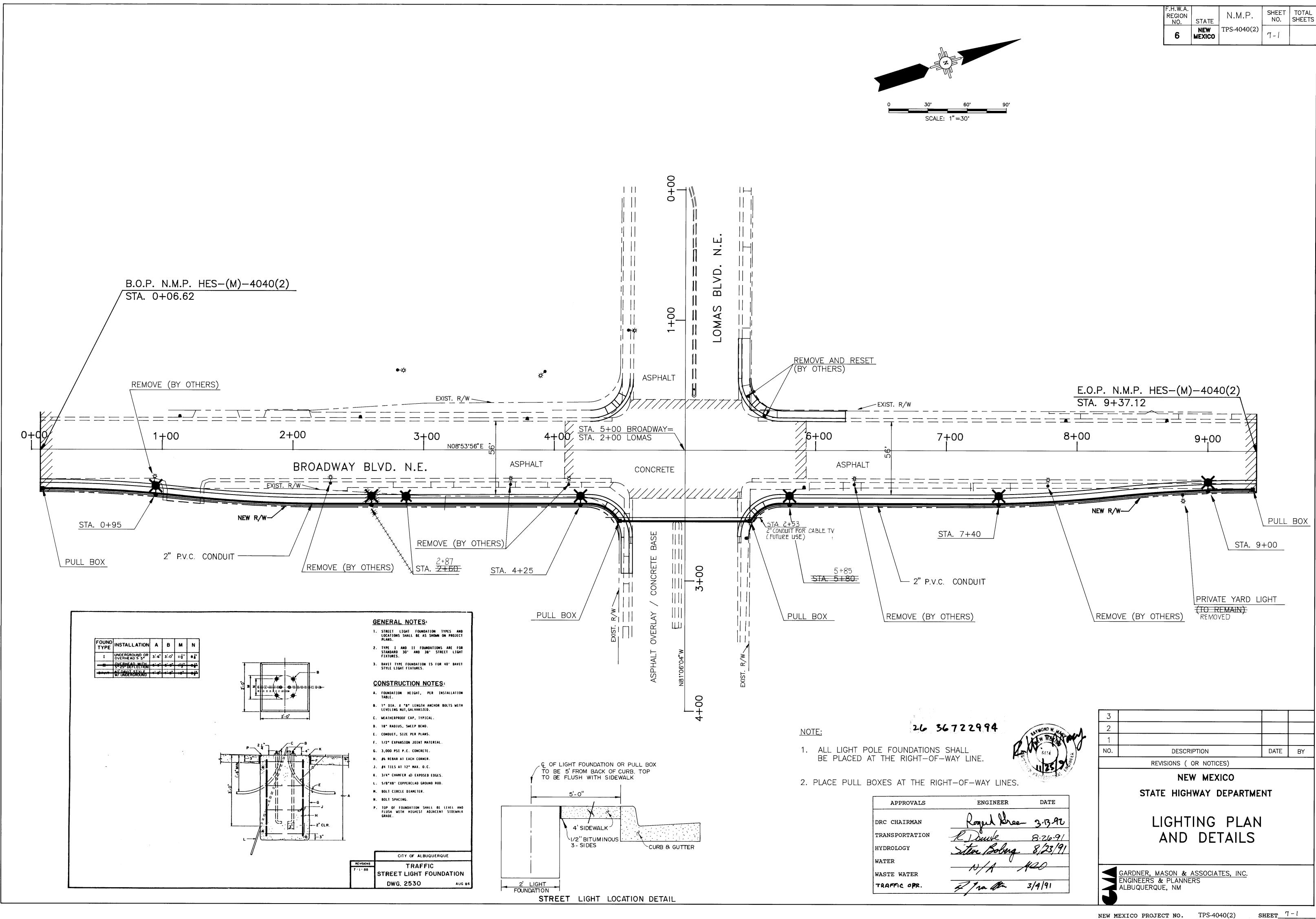
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NO. DESCRIPTION DATE BY
REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT
TRAFFIC DESIGN SECTION
PERMANENT SIGNING
SUMMARY OF QUANTITIES

DATE: 00/89

SHEET OF ,



	TRAFFIC SIGNAL QUANTITIES		1
NUMBER	ITEM	UNIT	TOTAL
504010	REINFORCING BARS - GRADE 40	POUND	366
509050	STRUCTURAL CONCRETE - CLASS A	CU.YD.	11
706010	SERVICE POLE (SIGNAL UNDERGROUND)	EACH	ı
707015	TYPE I ALBUQUERQUE STANDARD - 15'ARM	EACH	2
707041	TYPE II ALBUQUERQUE STANDARD - 30' ARM	EACH	2
707046	TYPE II ALBUQUERQUE STANDARD - 35' ARM	EACH	2
709015	RIGID ELECTRICAL CONDUIT - 1"	LIN.FT.	90
709030	RIGID ELECTRICAL CONDUIT - 2"	LIN.FT.	748
709040	RIGID ELECTRICAL CONDUIT - 3"	LIN.FT.	752
710010	ELECTRICAL PULL BOX (LARGE)	EACH	2.4
710012	SPLICE CABNET	EACH	I,
711025	COMMUNICATION CABLE 25 PAIRS	LIN. FT.	656
711110	MULTI CONDUCTOR CABLE 5	LIN.FT.	939
711112	MULTI CONDUCTOR CABLE 7	LIN.FT.	5.34
711125	MULTI CONDUCTOR CABLE 20	LIN.FT.	1550
711224	SINGLE CONDUCTOR 10	LIN.FT.	775
711230	SINGLE CONDUCTOR 4	LIN.FT.	452
	STROLL CORDOLOR 1		
712020	3 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	4
712030	5 SECTION TRAFFIC SIGNAL ASSEMBLY	EACH	8
712000	3 SECTION TRAIT TO STOWNE ASSETTED	Enon	
712080	PEDESTRIAN SIGNAL (NEON)	EACH	8
712103	3 SECTION BACKPLATE	EACH	4
712105	5 SECTION BACKPLATE	EACH	2
713010	LOOP VEHICLE DETECTOR	EACH	5
713030	PUSH BUTTON STATION	EACH	8
713040	LOOP DETECTOR WIRE	LIN.FT.	4078
713050	LOOP LEAD - IN CABLE	LIN.FT.	2544
713060	DETECTOR SAW CUT	LIN.FT.	/705
		5400	
714072	MULTIPHASE ACTUATED CONTROLLER- DUAL RING	EACH	.

GENERAL NOTES

- 1. MASTARMS SHALL BE PLACED 90° TO THE CENTERLINE UNLESS OTHERWISE NOTED.
- 2. MOUNT ALL CONTROLLERS SO DOORS FACE AWAY FROM TRAFFIC, UNLESS OTHERWISE SHOWN ON PLANS OR DIRECTED BY PROJECT MANAGER.
- 3. SHOWN DISTANCES TO TRAFFIC SIGNAL POLES TO BE MEASURED FROM FACE OF CURB UNLESS OTHERWISE NOTED.
- 4. CONTROLLERS SHALL BE OF A MICROPROCESSOR TYPE. CONTROLLER SHALL BE A MULTISONICS 820, COMPLETE FOR VMS SYSTEM OPERATOR IN A "P" TYPE CABINET.
- 5. ALL ITEMS UNDER SECTION 707-SIGNAL AND LIGHTING STANDARDS SHALL COMPLY TO THE "BUY AMERICA PROVISION" AS COVERED UNDER SPECIAL PROVISION MODIFYING SECTION 106-CONTROL OF MATERIALS AUGUST 29, 1989.
- 6. ALL SPLICES FOR TRAFFIC SIGNAL MULTI-CONDUCTOR CABLE SHALL BE MADE ABOVE GROUND (IN CABINET) SPLICING OF MCC WILL BE PERMITTED IN PULL BOXES. CONNECTIONS TO MAST ARM SIGNALS, PEDESTRIANS PUSH BUTTONS NO SPLICES OF COMMUNICATION CABLE WILL BE PERMITTED EXCEPT IN SPLICED CABNETS.
- 7. COVER ENTIRE SIGNAL HEADS WHEN NECESSARY WITH BURLAP CLOTH OR BAGS AS REQUIRED BY SECTION 712.031 STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (EDITION OF 1984).
- 8. ALL WIRE ON THIS PROJECT TO BE COPPER, AS PER SUBSECTION 711.02.
- 9. BEFORE CONDUITS CAN BE BORED, DRILLED, OR PUSHED UNDER THE ROADWAY, THE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES.
- 10. SIGNALIZATION SHALL REMAIN IN OPERATION DURING THE DURATION OF
- 11. ALL EXISTING TRAFFIC SIGNAL EQUIPMENT INCLUDING CONTROLLER, MAST ARMS, PEDESTAL POLES, PULL BOXES, MANHOLES, SPLICE CABNETS, SERVICE CONNECTIONS SHALL BE REMOVED BY CONTRACTOR AND DELIVERED TO TRAFFIC ENGINEERING CITY YARD PINOS ROAD NORTHEAST.
- 12. ALL SPLICES SHALL BE WATERPROOFED AS PER SECTION 711.034.
- 13. SINGLE PHASE PEDESTAL METERING CONNECTION INCLUDED IN ITEM 706010 SERVICE POLE SIGNAL (UNDERGROUND) SEE SHEET 8-11 FOR DETAILS. ITEM INCLUDES CONDUIT AND WIRE FROM WEATHERHEAD TO METER.
- 14. ALL INTERCONNECT CABLE WORK SHALL BE COORDINATED WITH COMPUTERIZED SIGNAL SYSTEM STAFF. PHONE NO. 291-6220. INTERCONNECT CABLE SHALL NOT BE DISCONNECTED FOR MORE THAN 24 HOURS.
- 15. CITY TO SUPPLY 6 CONDUCTOR COMMUNICATION CABLE.
- 16. PRIOR TO COMMENCING ANY BORING UNDER GAS LINES, THE AREA SHALL BE EXCAVATED TO EXPOSE THE GAS LINES TO AVOID CONFLICTS.
- 17. CONTROLLERS SHALL ADHERE TO NMSH&TD STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION EXCEPT SUBSECTION 714.024 (b) 8K SHALL BE DELETED (FIELD FUSED OUTPUT SHALL NOT BE INCLUDED) AND UNDER SUBSECTION 713.021 (f) THE NEON BULBS WILL NOT BE REQUIRED.
- 18. THE CONTRACTOR SHALL PROVIDE ALL TEMPORARY AND PERMANENT TRAFFIC SIGNAL MATERIAL (POLES, CONTROLLER, HARDWARE, ETC.) PRIOR TO THEIR INSTALLATION. THE CITY OF ALBUQUERQUE WILL NOT PROVIDE, LOAN OR ACCEPT IN KIND TRADE OF SIGNAL MATERIAL FOR THE CONSTRUCTION OF THIS PROJECT.

	F.	SHEET 'NO.		
	<u>,</u> ,	TPS-4040(2)	8-1	
A00				<u>,</u>

LEGEND

PROPOSED	EXISTIN	G ITEM
		PULL BOX
•	0	SIGNAL POLE
•	: 1	SERVICE POLE
C	[6]	CONTROLLER CABINET
SC		SPLICE CABINET
		CONDUIT RUN
	[]	LOOP DETECTOR
←•	- 0	TRAFFIC SIGNAL PEDESTAL POLE
<u>^</u>		CONDUIT RUN NUMBER
-	 ()	POLE WITH MASTARM, TRAFFIC SIGNAL AND BACKPLATE
★	100	COMBINATION POLE WITH LUMINAIRE AS INDICATED
•	ਕ ੂ	PEDESTRIAN PUSH BUTTON (MOUNTED TO SIDE OF POLE WHERE INDICATED)
46	5 0	PEDESTRIAN SIGNALS (MOUNTED TO SIDE OF POLE WHERE INDICATED)
•	1.	TRAFFIC MANHOLE



DESCRIPTION REVISIONS (OR CHANGE NOTICES)

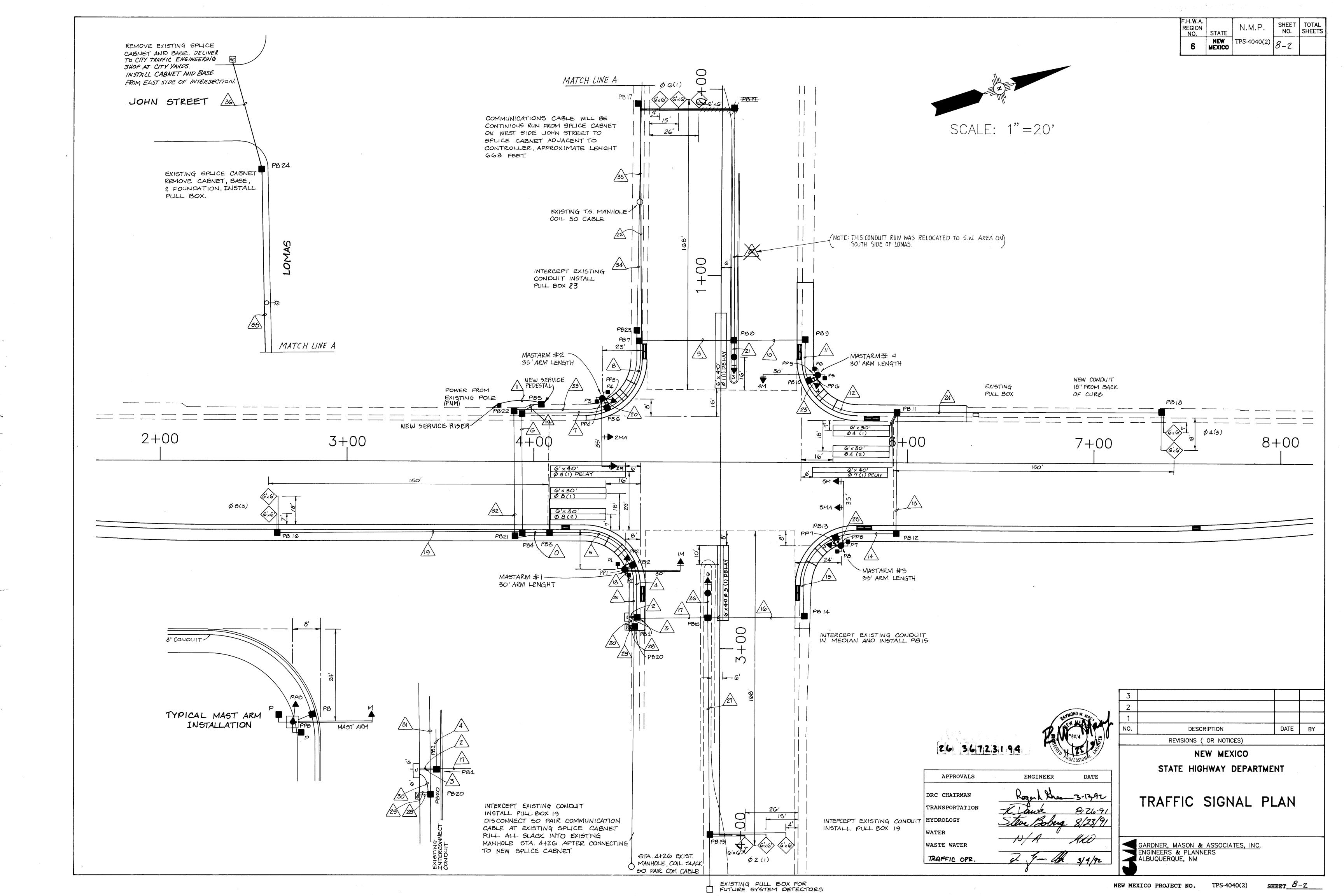
NEW MEXICO STATE

HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC SIGNAL GENERAL NOTES, LEGEND & ESTIMATED QUANTITIES

ENGINEER APPROVALS DRC CHAIRMAN TRANSPORTATION HYDROLOGY WATER WASTE WATER TRAFFIC OPR.

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F.H.W.A. REGION NO. 8

NEW MEXICO PROJECT NO. NO.

TPS-4040(2)

8-3

FUNCTION CHART CONDUIT RUNS CABLE RUNS (RING 2) CON-BASE (RING 1) **FUNCTION** FIELD CONNECTION COLOR TRACER FUNCTION FIELD CONNECTION DUCTOR LENGTH SIZE TYPE REMARKS CABLE LENGTH CONDUCTOR AWG TYPE REMARKS CONDUIT REC. SEE SHEET 8-4. SPARE - SPARE BLACK FOR SERVICE 1. $\begin{array}{c|c}
\hline
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\end{array}$ - SPARE WHITE SPARE 2. Ф5 RED φ1 RED RED 3 LT. GR. AR. 5 RT. GR. AR. φ1 GREEN φ5 GREEN GREEN G LT. GR. AR. ZRT. GR. AR. 4. 3" 3 LT. YL. AR. 5 RT. YL. AR. \$ YELLOW ORANGE \$1 YELLOW GLT. YL. AR. ZRT. GR. AR. 5. φ1 WALK BLUE 6. Ø1 Dont Walk BLACK 7. WHITE 1,1M,6 Φ2 RED ф6 RED 3, 4, 4M 8. BLACK 3, 4, 4M \$\psi\$6 GREEN 1, 1M, 6 \$ GREEN GREEN BLACK 9. 1, IM, 6 \$6 YELLOW \$2 YELLOW 3, 4, 4M 10. BLACK ORANGE \$6 WALK PI, P3 P5, P7 Φ2 WALK 11. BLACK BLUE \$2 Dont Walk P5, P7 P1, P3 12. \$40 Dont Walk WHITE BLACK Φ7 RED ф3 RED 13. WHITE 2M, LT. GR.AR. 1, RT. GR. AR. ф3 GREEN ♦7 GREEN 14. GREEN WHITE 5M LT. GR.AR. IRT. GR.AR 5M LT. YL. AR. I RT. GR. AR 2M, LT. YL. AR. 4 RT. YL. AR. φ7 YELLOW 15. WHITE \$ YELLOW BLUE ф8 RED 5, 5M, 5MA 16. RED ф4 RED 2, 2M, 2MA BLACK 5, 5M, 5MA Φ4 GREEN ф8 GREEN 17. RED 2, ZM, ZMA WHITE 2, 2M, 2MA \$8 YELLOW 5,5M,5MA 18. RED ♦4 YELLOW ORANGE 19 P4, P6 Ø8 WALK P2, P8 19. 04 WALK RED 20 P2, P8 20. \$4 Dont Walk P4, P6 ♦8 Dont Walk GREEN SPARE 21 21. GREEN - SPARE ORANGE NOTE: INDENTIFY CABLES ABOVE AS "115 VOLTS" AND CABLES BELOW 22 AS "P.P.B.-LOW VOLTAGE" AT EACH SPLICE POINT. 5 CONDUCTOR CABLE 24 VOLTS (PUSH BUTTONS ONLY). 23 PPB 5,7 - \$2PPB 24 BLACK 1. PPB1 THRU PPB8 25 - COMMON 2. PPB 4,6 - 04 PPB 26

27

28

29

30

32

35

36

118

100'

EXISTING

EXISTING

EXISTING "

I" CONQUIT FOR DETECTORS

25' 3" CONDUIT FOR CONTROLLER AND

MAST ARM STUB OUTS

" INTERCONNECT

" INTERCONNECT

EXISTING "INTERCONNECT

NOTE: WRAP RING 2 CABLE AT EACH SPLICE POINT AND PULL BOX WITH COLORED ELECTRICAL TAPE, AT EACH END OF CABLE, 6" BACK FOR IDENTIFICATION.

PPB 1,3

PPB P2, P8



- Ø 6 PPB

- Ø 8 PPB

ORANGE

4.

APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	NA	•
TRANSPORTATION	& Douck	8.76.91
IYDROLOGY	Steve Bobera	8/23/91
VATER	12/0	410
WASTE WATER	10/18	7120
TRAFFIC OPR.	I Tralle	3/4/92

DESCRIPTION DATE BY
REVISIONS (OR CHANGE NOTICES)

NEW MEXICO STATE
HIGHWAY AND TRANSPORTATION
DEPARTMENT

TRAFFIC DESIGN SECTION

TRAFFIC SIGNAL

CONDUITS, CABLES & FUNCTIONS

CABLE RUNS

CABLE RUNS

CABLE RUNS

RUN	LENGTH	CONDUC		AWG.	TYPE	REMARKS	RUN	LENGTH	CONDU	CTORS	AWG.	TYPE	REMARKS	RUN	LENGTH	CONI	DUCTORS	AWG.	TYPE	REMARKS
0	21'	2	20C	14	MCC	PED BUTTONS	11	28'	2	20C	14	MCC		25	*	3	7C	14	MCC	
		11	5C	14	MCC	COMMON			1	5C	14	MCC	PED BUTTONS			1	5C	14	MCC	PED BUTTONS
		7.10	1C	10	THHN				1	1C	10	THHN	COMMON							
		<u> </u>	OP LEA	D IN V		055)//05	1.0							26	21'	11	7C	14	MCC	
1	27'	2	1C 1C	4	THHN	SERVICE SERVICE	12	62'	2	20C	14	MCC	PED BUTTONS					-		
·					THHN	FOR SERVICE			1	5C	14	MCC	COMMON	27	122'					
						TO METER ONLY			<u> </u>	1C	10	THHN			·	1	LOOP LE	-AD IN	WIRES	
1	9'	2	IC	4	THHN	SERVICE	13	71'	2	20C	14	MCC		28	14'	1	50PR	СОММ	CARLE	INTERCONNECT
) -	15'	2	20C	14	MCC					5C	14	MCC	PED BUTTONS				30111	COMIN	OADLL	EXISTING
		1	5C	14	MCC	PED BUTTONS			<u>.</u>	1C	10	THHN	COMMON						_	LAISTING
		1	1C	16	THHN	COMMON			3 L(DOP LEA	AD IN W		OOMMON	29	14'	1	25PR	COMM	CARL F	INTERCONNECT
		5 LO	OP LEA	D IN V	WIRES TH	HN											20111	00141141	ONDEL	INTERCONIVEOR
		2	IC	4	THHN	SERVICE	14	41'	2	20C	14	MCC	PED BUTTONS	30	15'	1	6PR	COMM	CABLE	INTERCONNECT
	15'	2	20C	14	MCC	PED BUTTONS			1	5C	14	MCC	COMMON							
		1	5C	14	MCC	COMMON			1	1 C	10	THHN		31	106'	1	25PR	COMM	CABLE	INTERCONNECT
		1	1C	10	THHN				3 LC	OOP LEA	AD IN M	/IRES							· · · · · · · · · · · · · · · · · · ·	
		5 LO	OP LEA	D IN V	WIRES									32	72'	1	25PR	COMM	CABLE	INTERCONNECT
							15	56'	2	20C	14	МСС								
	34'	2	20C	14	MCC				1	5C	14	МСС	PED BUTTONS	33	104'	1	25PR	COMM	CABLE	INTERCONNECT
		1	5C	14	MCC	PED BUTTONS			1	1C	10	THHN	COMMON							
		1	1C	10	THHN	COMMON			3 LC	OOP LEA	AD IN M	/IRES		34	127'	1	25PR	COMM	CABLE	INTERCONNECT
		5 LO		D IN V	WIRES THE															
		2	<u> </u>	4	THHN	SERVICE	16	57'	2	20C	14	MCC	PED BUTTONS	35	161'	1	25PR	COMM	CABLE	INTERCONNECT
	59'	2	20C	14	MCC	PED BUTTONS			1	5C	14	MCC	COMMON							
			5C	14	MCC	COMMON			1	1C	10	THHN		36	72'	1	25PR	COMM	CABLE	INTERCONNECT
		1	1C	10	THHN				3 LC	OOP LEA	<u>AD IN M</u>	/IRES								
			OP LEA	D IN V	VIRES		1									CAB	LE RUN	CONTINU	JATIONS	
	701	2	1C	4	THHN	SERVICE	17	44'	2	20C	14	MCC		MA-1	62'	1	7C	14	MCC	HEAD 1M
	70'	2	20C	14	MCC	DED DUTTONO			11	5C	14	MCC	PED BUTTONS		27'	1	7C	14	MCC	HEAD 1
		<u> </u>	5C 1C	14 10	MCC	PED BUTTONS			<u> </u>	1C	10	THHN	COMMON		24'		5C	14	MCC	P1, P2
		2 10	OP LEA		THHN VIRES THE	COMMON			5 LC	OP LEA	AD IN W	IKES			17'	1	5C	14	MCC	PPB1, PPB2
		2 10		7 IN V			10				4.4	1400		MA-2	67'	1	7C	14	MCC	HEAD 2M
	53'		1C 20C	14	THHN MCC	SERVICE PED BUTTONS	18	*	2	7C	14	MCC	DED DUTTONO		53'	1	7C	14	MCC	HEAD 2MA
	<u> </u>	1	5C	14	MCC	COMMON			<u>. </u>	5C	14	MCC	PED BUTTONS		27'	1	7C	14	MCC	HEAD 2
		1	1C	10	THHN	COMMON	19	138'							24'		5C	14	MCC	P3, P4
*****		2 10	OP LEA				13	100	1 1 (OP LEA	D IN W	IREC		SP-3	17'		5C	14	MCC	PPB3, PPB4
			<u> </u>		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,				1 LC			IIVEO		MA-4	12' 62'	1	7C 7C	14	MCC	HEAD 3
	48'	2	20C	14	MCC		20	*	3	7C	14	MCC		IVIA-4	27'	<u> </u>		14	MCC	HEAD 4M
_		 1	5C	14	MCC	PED BUTTONS	1 20	-1-	1	5C	14	MCC	PED BUTTONS		24'	1	7C 5C	<u>14</u> 14	MCC MCC	HEAD 4
		1	1C	10	THHN	COMMON			ı		1 · F	14100	I LD DOLLONS		17'	1	5C 5C	14	MCC MCC	P5, P6 PPB5, PPB6
		2 LO	OP LEA				21	17'	1	7C	14	MCC		MA-5	67'	1	7C	14	MCC	HEAD 5M
							1	• ,	1 LO	OP LEA				IVIZ O	53'	1	7C	14	MCC	HEAD 5MA
	57'	2	20C	14	MCC	PED BUTTONS						· · — -			27'	1	7C	14	MCC	HEAD 5
		1	5C	14	MCC	COMMON	22	130'							24'	1	5C	14	MCC	P3, P4
		1	1C	10	THHN				1 LO	OP LEA	N NI D	IRES			17'	1	5C	14	MCC	PPB7, PPB8
		1 LO	OP LEAD	N NI C	VIRES									SP-6	12'	1	7C	14	MCC	HEAD 6
							23	*	2	7C	14	MCC			-	<u> </u>				
	44'	2	20C	14	MCC	PED BUTTONS			1	5C	14	MCC	PED BUTTONS	* LE	NGTH INCL	UDED	IN CABL	E RUN	CONTINU	ATIONS FROM MAS
)		1	5C	14	MCC	COMMON								"	MS					
)																				
		1	1C	10	THHN		24	146'						** CIT	Y TRAFFIC	ENGI	VEERING	TO SUF	PLY 6 C	ONDUCTOR

26 36723394



_			
3			
2			
1			
NO.	DESCRIPTION	DATE	BY
	REVISIONS (OR CHANGE NOTICES)		
	NEW MEVICO		

NEW MEXICO STATE HIGHWAY DEPARTMENT

TRAFFIC SIGNAL CABLE RUNS

FLASH CONDITION *

RED BALL ALL HEADS
YELLOW BALL HEADS

INITIALIZATION

PHASE 2 AND 6 YELLOW CLEARANCE INTERVAL

PEDESTRIAN PUSH BUTTON

PPB 1, 4, 5, 8 PPB 2, 3, 6, 7

DESIGNATION SIGNS

R10 - 4b R

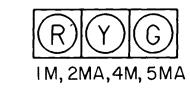
R10 - 4b L

PHASE 2,4,6,8 STEADY RED 6 SECONDS THEN PHASE 2 AND 6 GREEN

SIGNAL HEAD DETAILS

SIGNAL PHASING

(R) (Y) (G) (J) (J) (J) (R) (S) (G) (S) (3,6)



2M,5M



F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO.

TPS-4040(2)

8-5

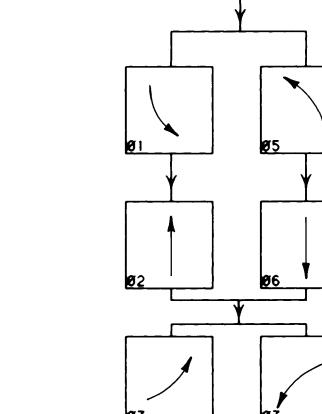
ф 1	ф 2	фЗ	ф4	φ5	ф6	ф7		
3	i 6	່ 3	' 3	' 3	i6	' 3		
. 5	3.5	1.5	1.5	1.5	3 .5	1.5		
15	30	15	30	15	30	15		
20	40	20	40	20	40	20		

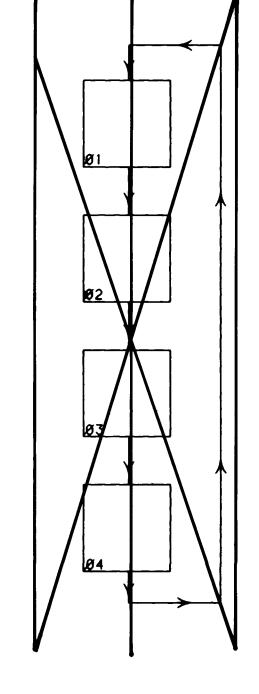
MINIMUM INITIAL VEHICLE EXTENSION MAXIMUM 1 MAXIMUM 2 3.5 3.5 3.5 YELLOW CHANGE RED CLEAR 1.0 1.0 1.0 1.0 1.0 WALK 20 **MIN** PEDESTRIAN CLEAR MEM OFF OPERATION MEM RECALL OFF RECALL

BACK UP TIME SETTING

LOOP LEAD IN CABLE

FROM	TO		LENGTH
PB-3		2 x 10 8	216
PB-8	CONTROLLER	_ ,, ,,,,	3 57 ′
PB-II	CONTROLLER	2 x 284	568′
PB-15	CONTROLLER		59′
PB-16	CONTROLLER		246
PB-17	CONTROLLER		487 [']
PB - 18 PB - 19	CONTROLLER CONTROLLER		4 30' I 81'
10 10	OOMINOEEEN	-	
		TOTAL	25 .44 ′





26.367.23494

APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	N)A	
TRANSPORTATION	K Dousk	8-26-91
HYDROLOGY	Steve Bobera	8/23/91
VATER	12/1	110
NASTE WATER	10/ A	ARC

DESCRIPTION REVISIONS (OR CHANGE NOTICES) NEW MEXICO STATE HIGHWAY AND TRANSPORTATION

DEPARTMENT

TRAFFIC SIGNAL MISCELLANEOUS ITEMS

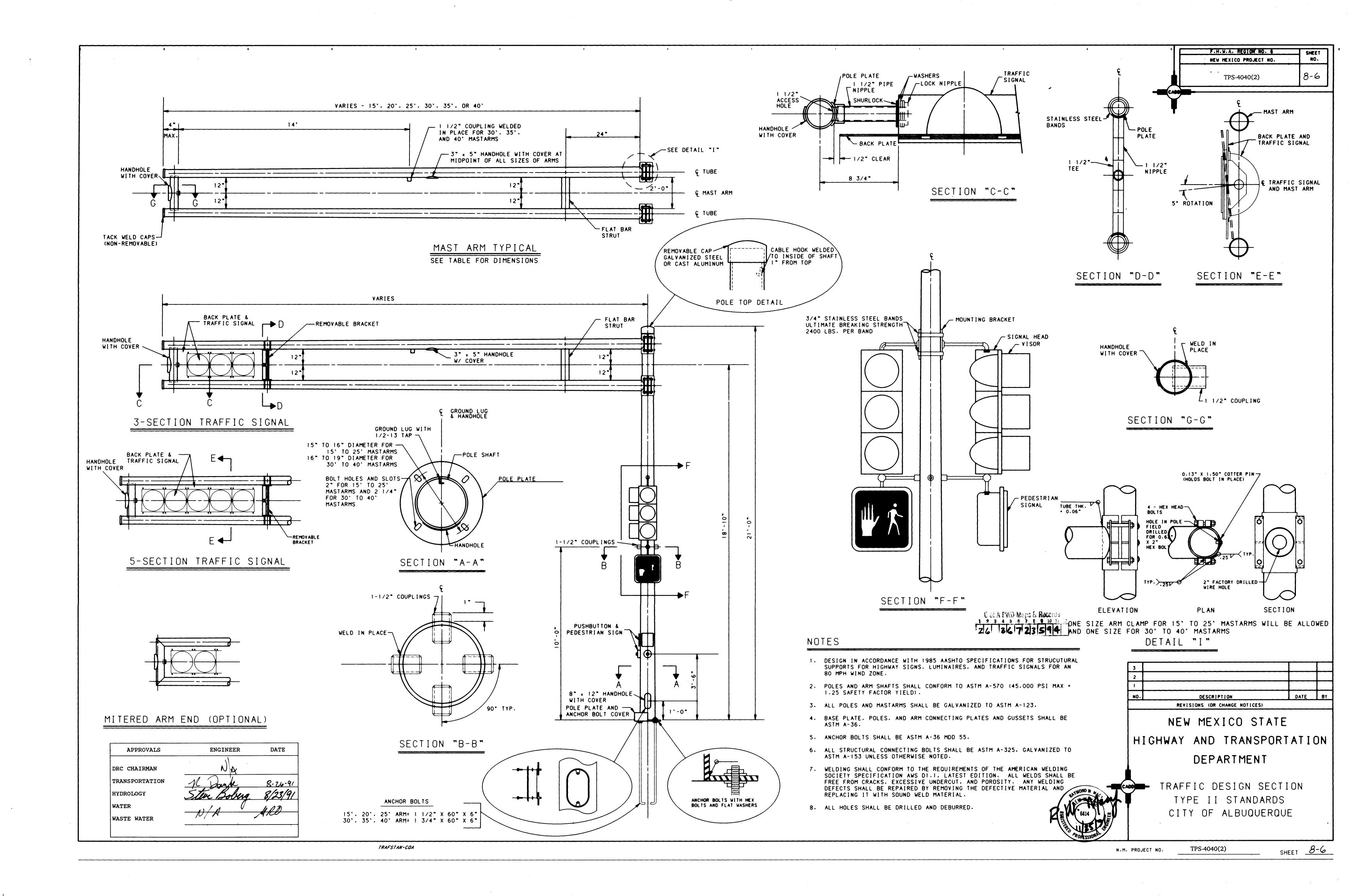
DETECTORS

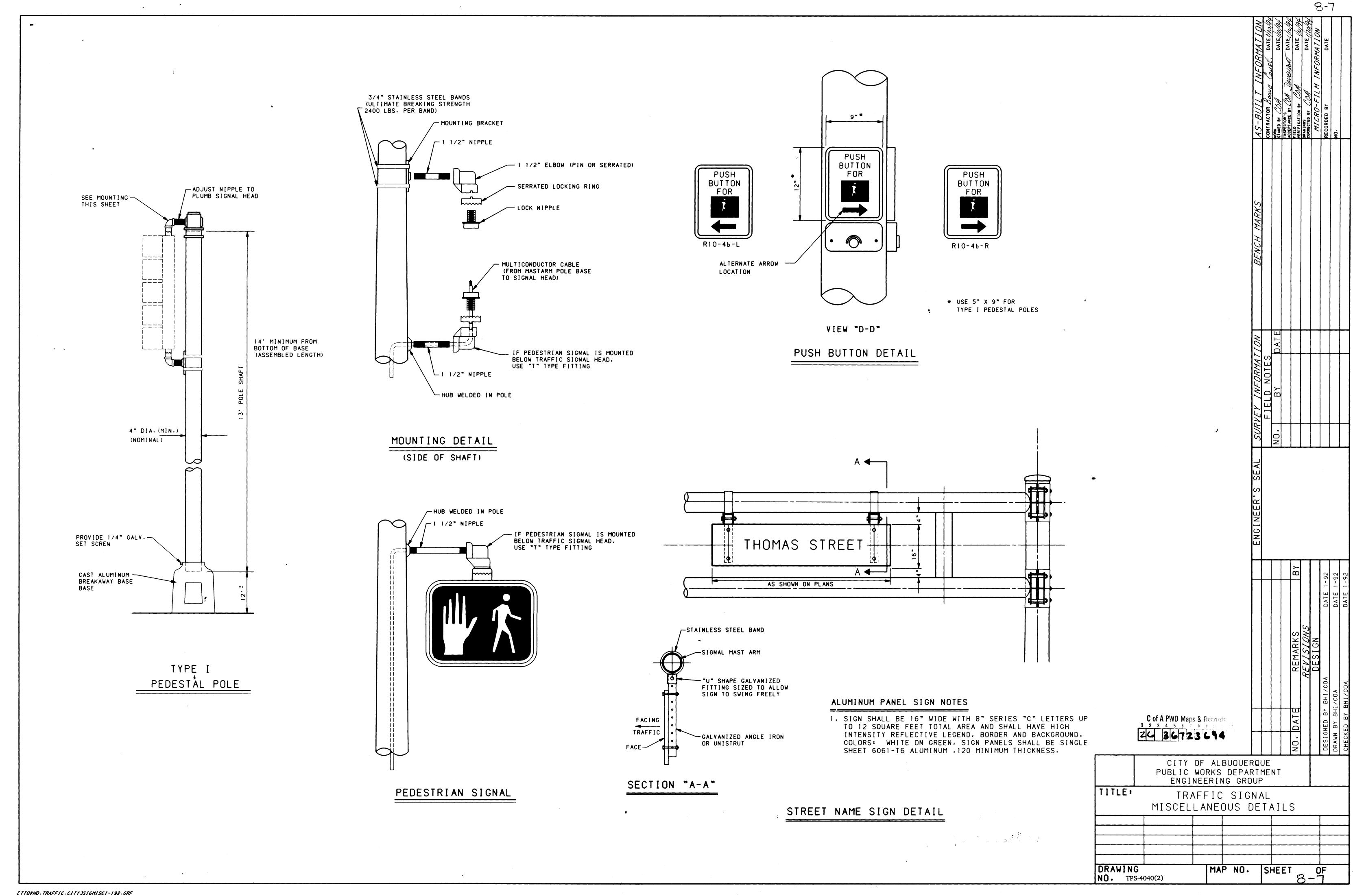
1	UNIT CHAN CHAN	1	PHASE 1 5	(#) (1) (1)	PRESENCE PRESENCE				-	
2	CHAN CHAN	1 2	3 7	(1)(1)	PRESENCE PRESENCE					
3	CHAN CHAN	1 2	6 2	(1) ()	PRESENCE PRESENCE					3 SEC
4	CHAN CHAN	1 2	4	(1),(2) (3)	PRESENCE PRESENCE	/	EXTEND	CALL	. 3	SE(
5	CHAN CHAN	1 2	8	(1),(2) (3)	PRESENCE PRESENCE	/	EXTEND	CALL	. 3	S SE

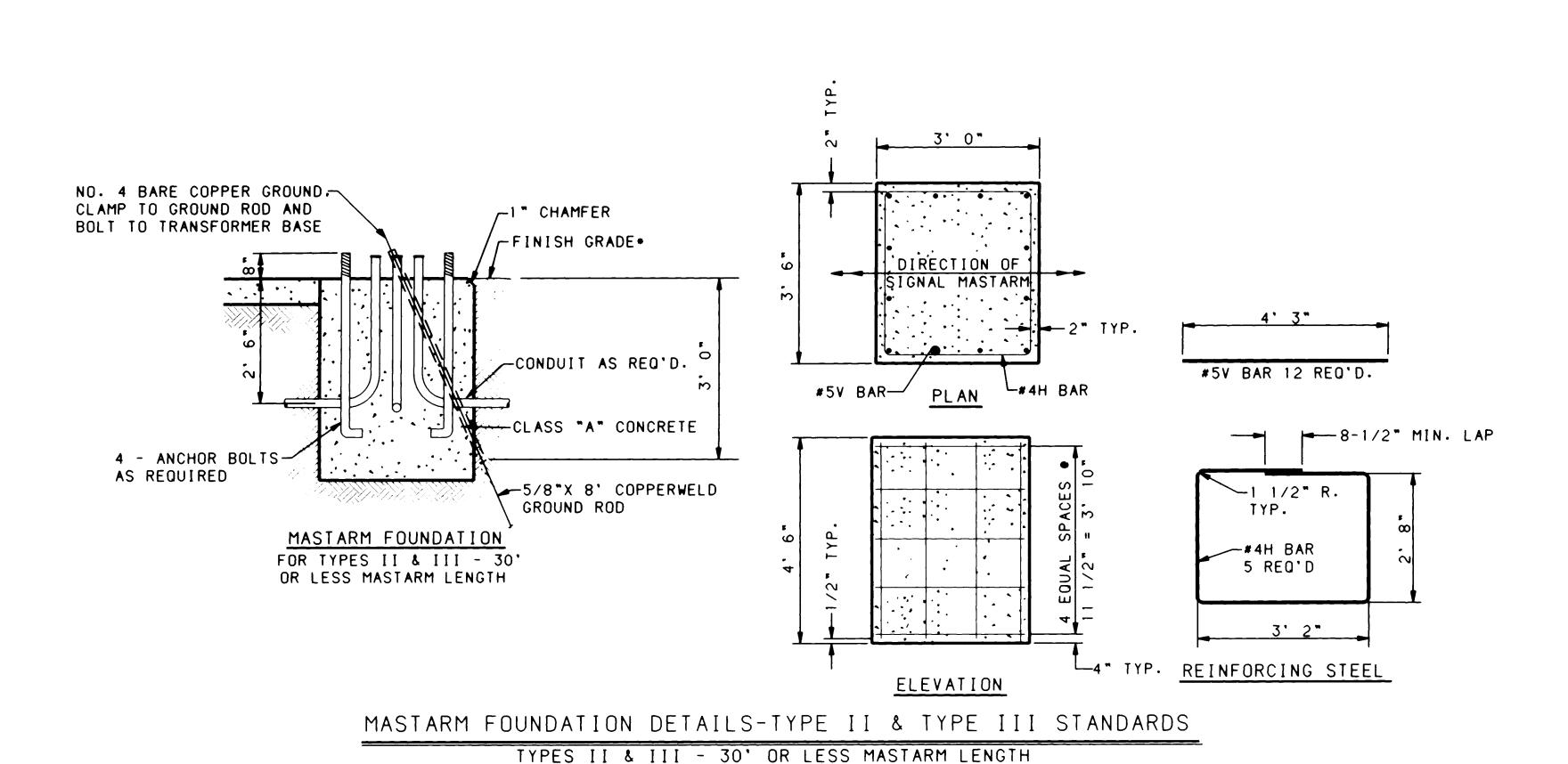
N.M. PROJECT NO.

TPS-4040(2)

SHEET <u>8-5</u>







MASTARM FOUNDATION (SPECIAL) DETAILS-TYPE II & TYPE III STANDARDS TYPES II & III - GREATER THAN 30' MASTARM LENGTH

#4V BAR-

6" TYP.-

PLAN

└6" TYP.

ELEVATION

-NO. 4 BARE COPPER GROUND, CLAMP TO GROUND ROD AND

_1 " CHAMFER

-CONDUIT AS REQ'D

CONCRETE

-5/8" X 8'

4-ANCHOR BOLTS

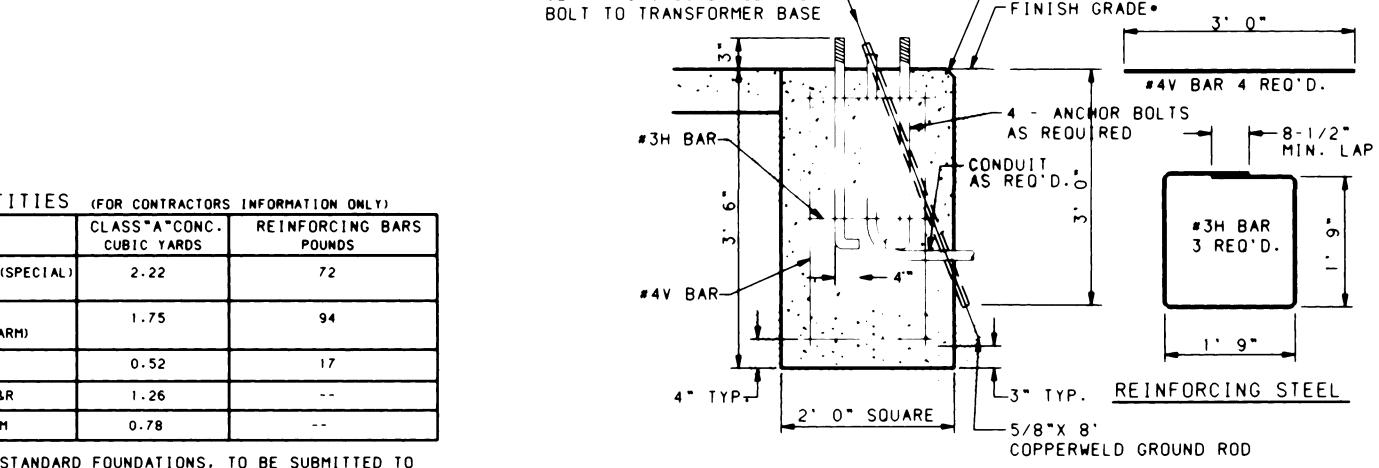
AS REQUIRED

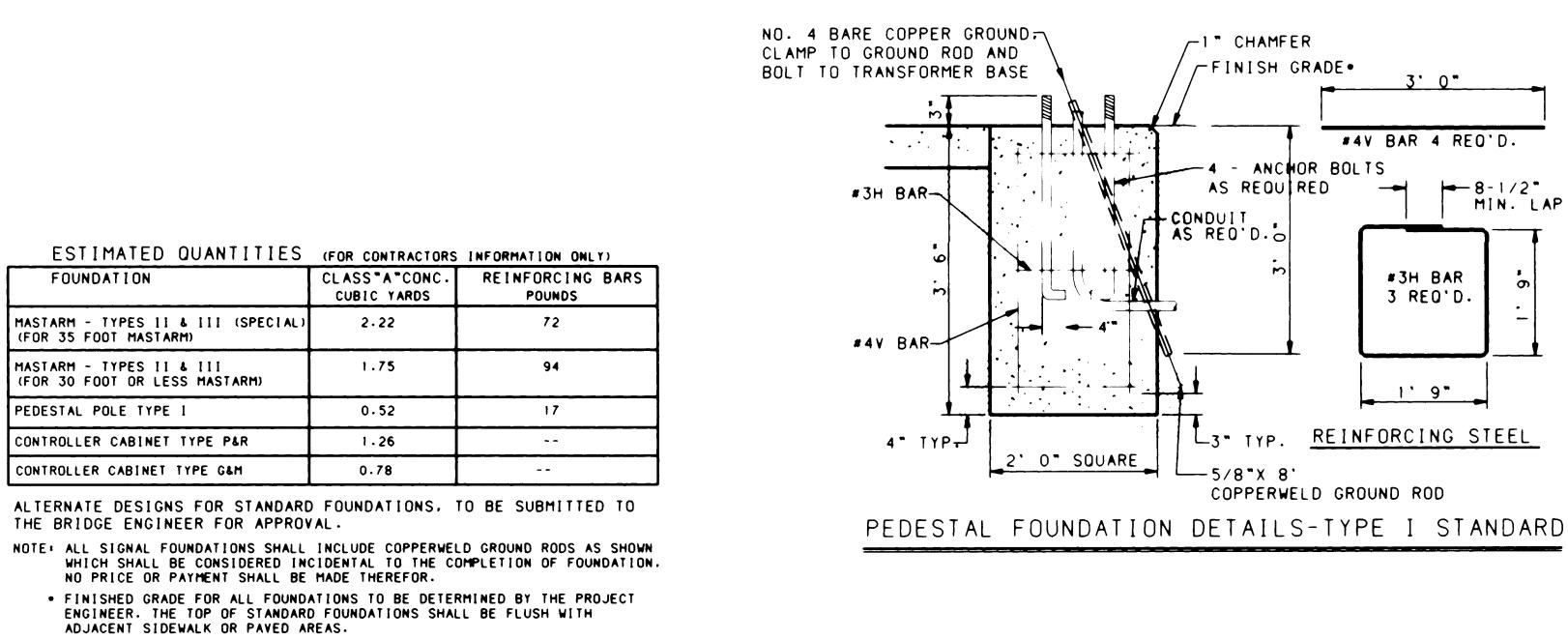
COPPERWELD GROUND ROD

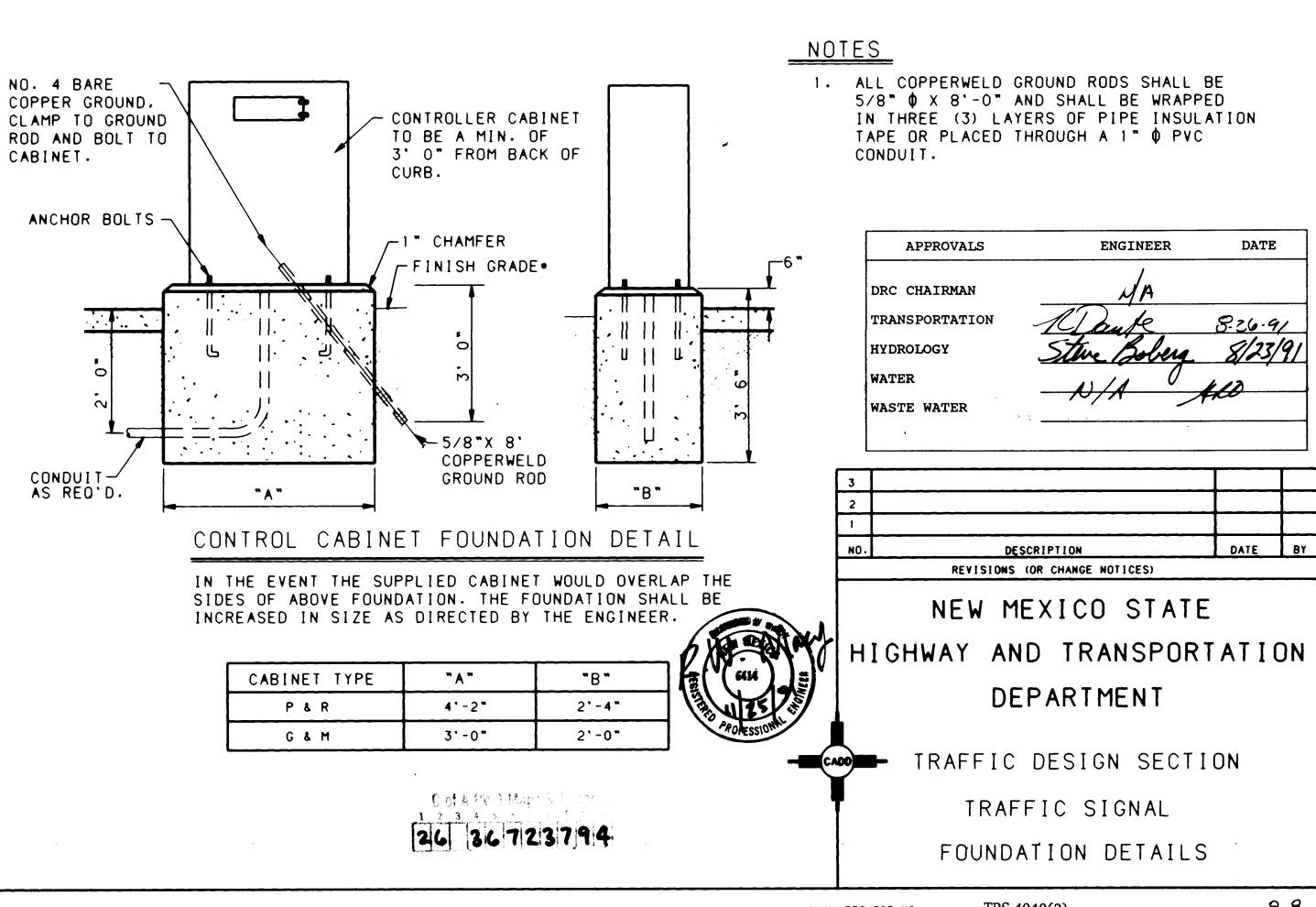
FINISHED GRADE.

BOLT TO TRANSFORMER

MASTARM FOUNDATION (SPECIAL)







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F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO.

TPS-4040(2)

#4V BAR 8 REQ'D.

TYP.

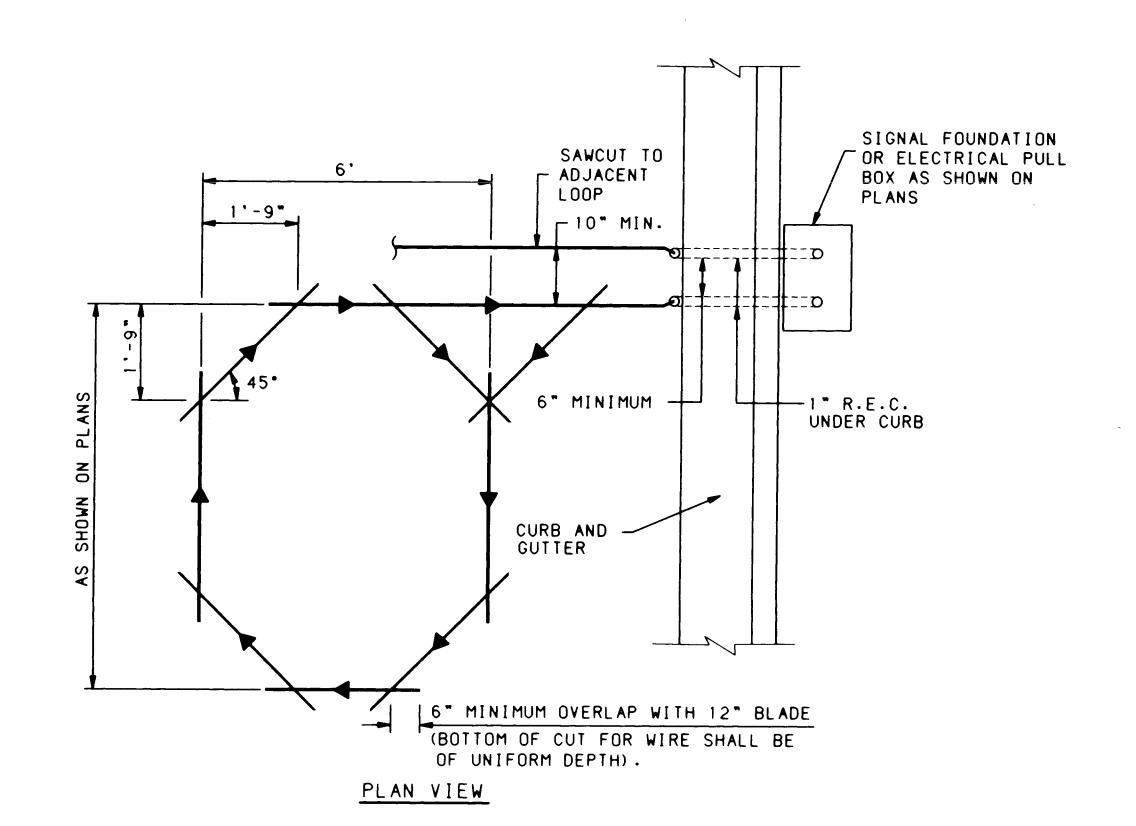
-#4H BAR 5 REQ'D

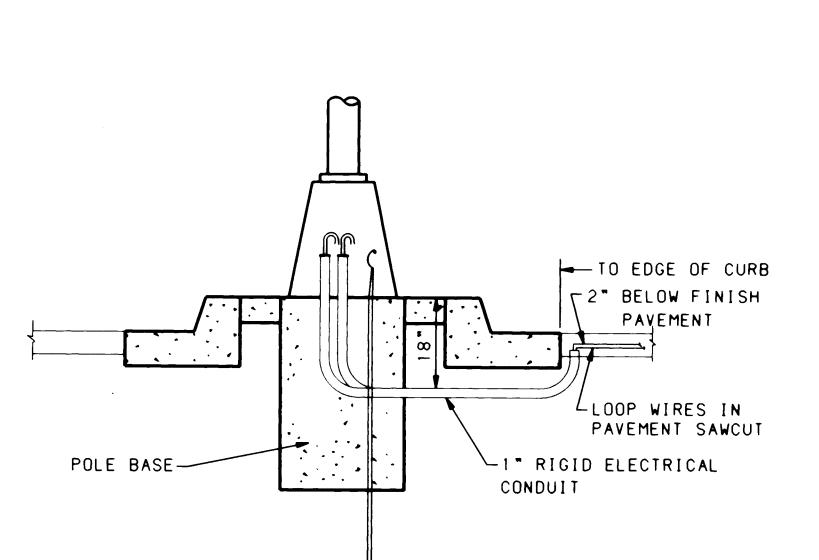
3' 8"

REINFORCING STEEL

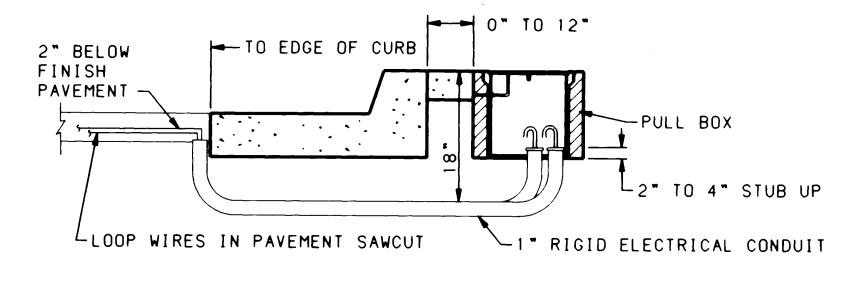
8-1/2"

MIN. LAP



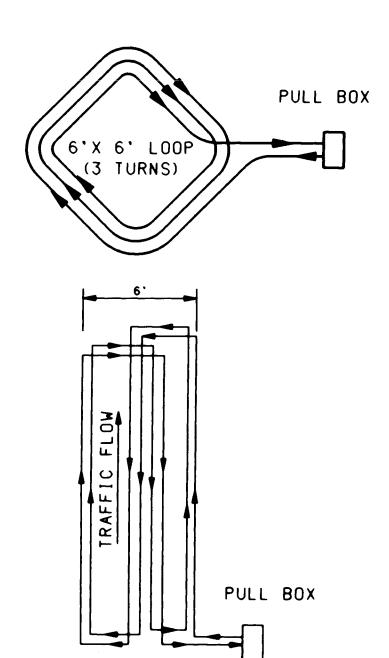


NOTE: PROVIDE A SEPARATE 1" CONDUIT FOR EACH LOOP (PAIR OF DETECTOR WIRES) TERMINATION.



LOOP WIRE TERMINATION DETAILS

NOTE: GROUND LOOP LEAD - IN SHIELD AT CONTROLLER ONLY.

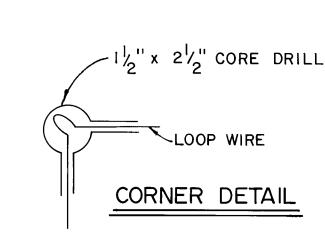


TYPICAL LOOP WIRE PLACEMENT DETAIL

(2 TURNS)

NOTES: 1. WIRES MUST BE WOUND IN IN THE DIRECTION SHOWN. 2. ALL 6x30, 6x40, & 6x50 LOOPS HAVE 2 TURNS. ALL

6x6 LOOPS HAVE 3 TURNS.



NOTES

1. ALL LOOP DETECTOR WIRE SHALL BE NO. 14 AWG STRANDED COPPER WIRE WITH

WIRE. A 1/4" LAYER OF SEALANT SHALL BE PLACED IN THE SAWCUT BEFORE

3. SEALANT SHALL BE HOT MELT RUBBERIZED ASPHALT LOOP DETECTOR SEALANT

MANUFACTURED BY CRAFCO OR ALTERNATE APPROVED BY CITY TRAFFIC SIGNAL

2. ALL LOOP LEAD IN CABLES SHALL BE TAGGED AT CABINET TO IDENTIFY

ENGINEER. NO TWO PART EPOXY SEALANT WILL BE ACCEPTABLE.

EACH CABLE BY LOOP AND PHASE NUMBER.

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

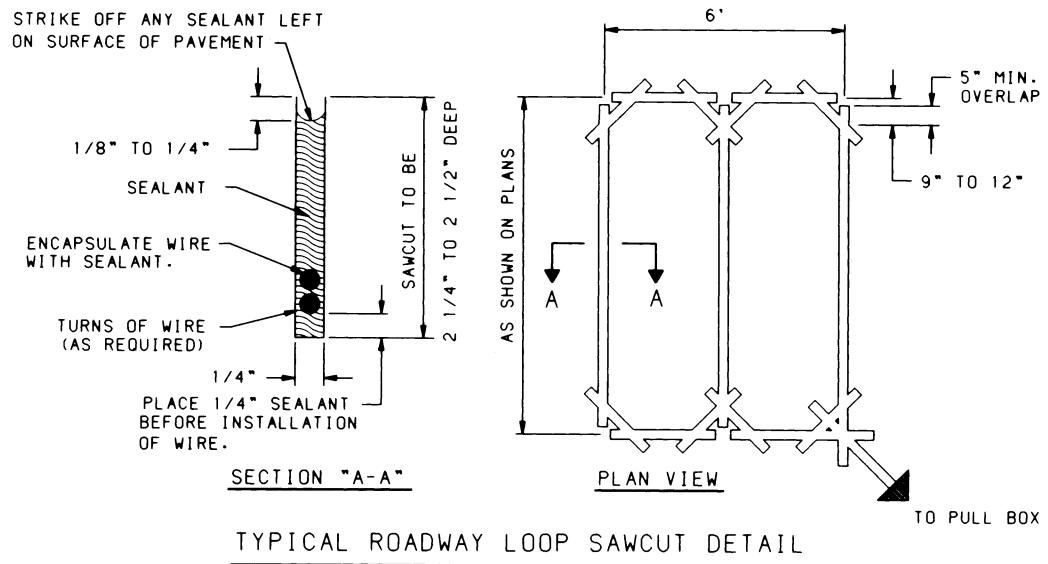
12" WHICH MAY BE PLACED OVER THE WIRE AT THE SAW CUT CORNERS TO HOLD THE

PLACEMENT OF THE WIRE AND THEN THE WIRE SHALL BE ENCAPSULATED WITH SEALANT.

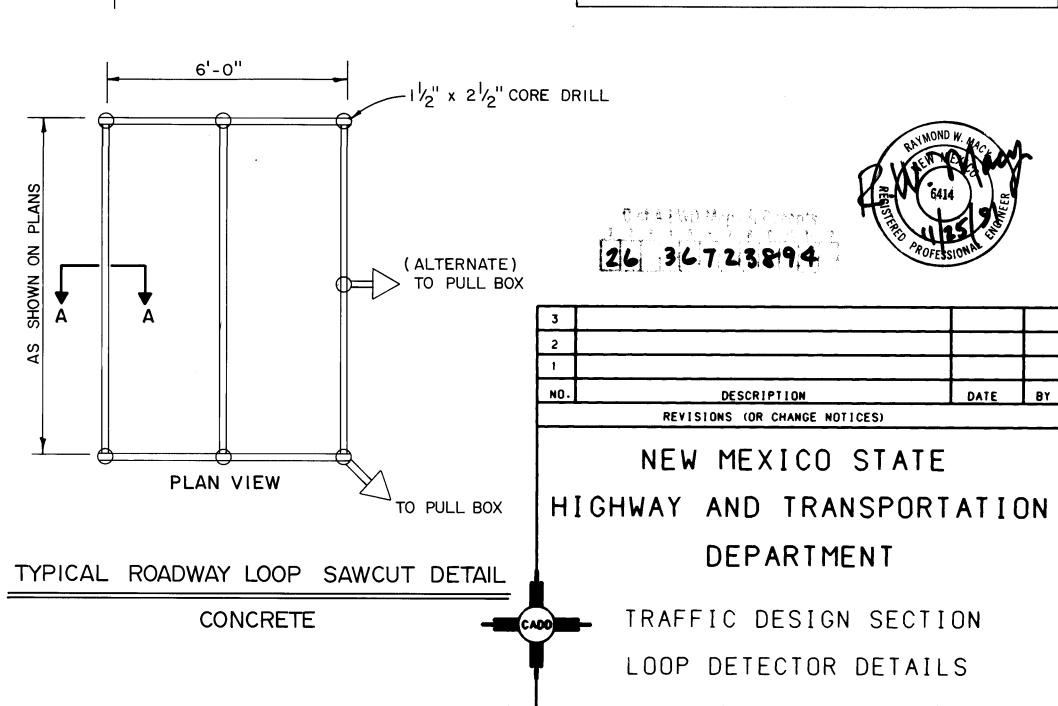
APPROVALS	ENGINEER	DATE
DRC CHAIRMAN	MA	
TRANSPORTATION	Klauk	8-26·
HYDROLOGY	Steve Boberg	8/23/9
WATER	19/1	1000
WASTE WATER	10/11	ARO

F.H.W.A. REGION NO. 6 NEW MEXICO PROJECT NO.

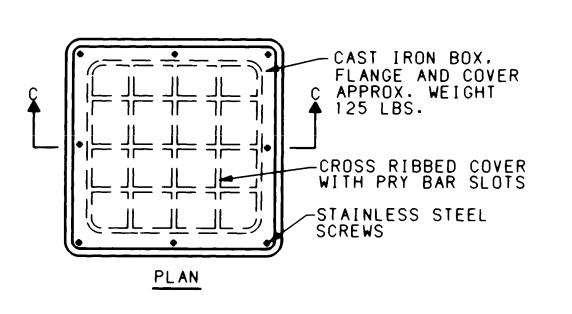
TPS-4040(2)

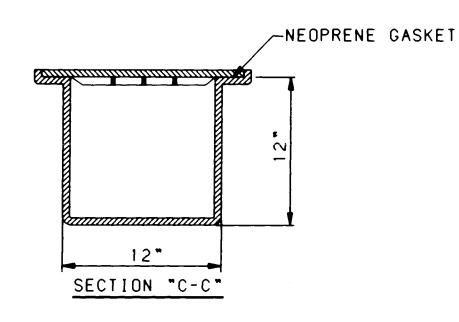


ASPHALT

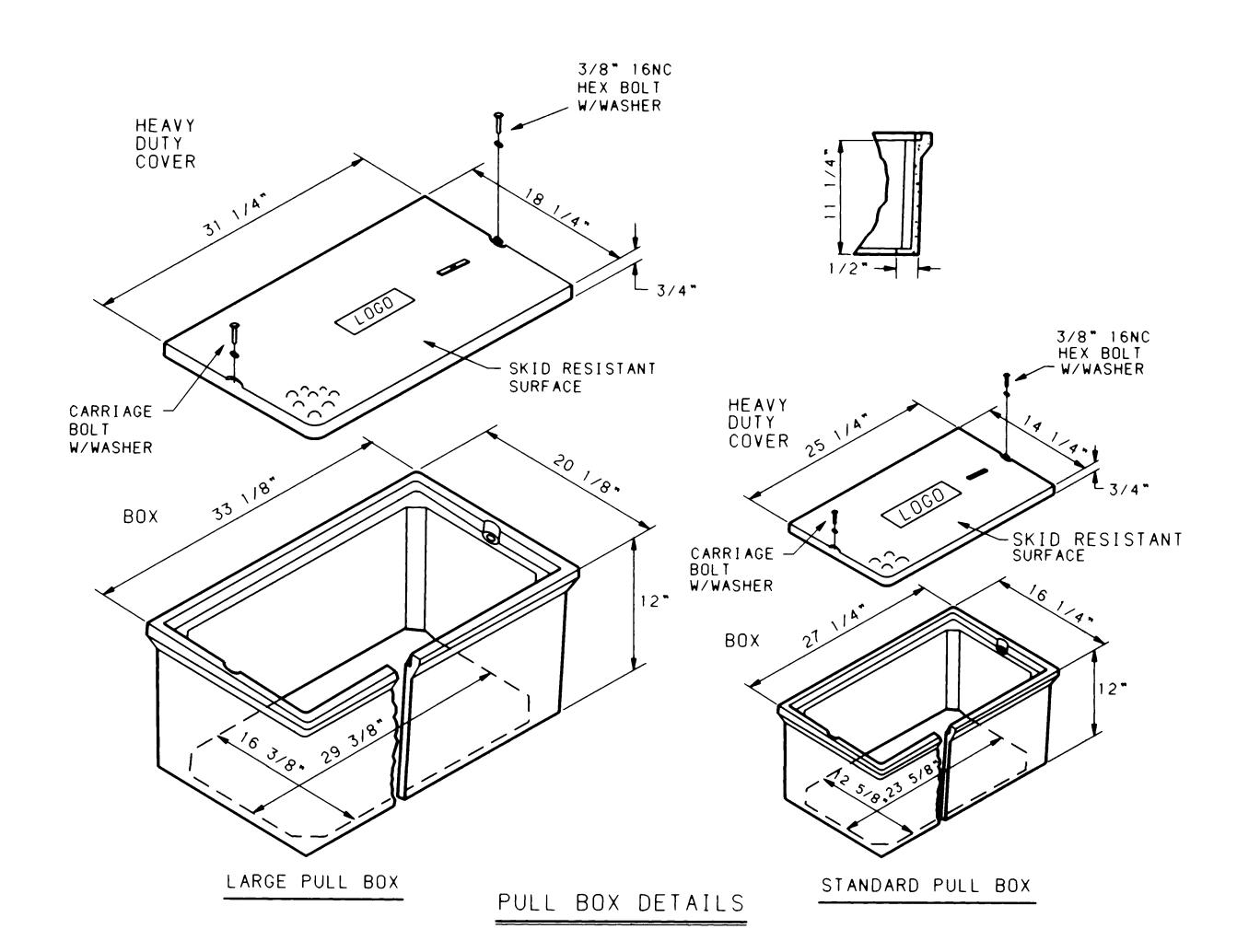


SHEET <u>8-9</u>



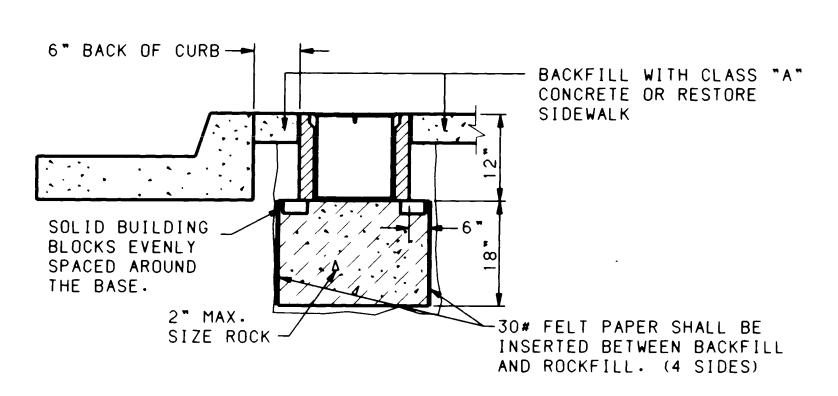


METAL PULL BOX



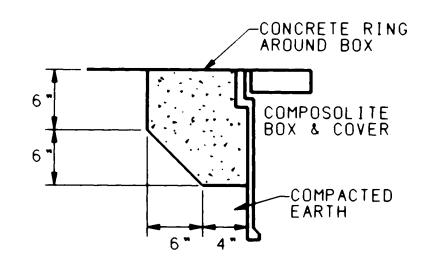
NOTES FOR REINFORCED POLYMER MORTAR PULL BOX

- 1. SERVICE LOAD FOR (HEAVY DUTY COVERS) 15,000 LBS. OVER A 10" SQUARE (150 PSI).
- 2. 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.
- 3. ALL PULL BOX COVERS SHALL BE STEEL OR REINFORCED POLYMER MORTAR, NO CONCRETE COVERS WILL BE ACCEPTABLE. PULL BOX TYPE SHALL BE APPROVED BY THE PROJECT MANAGER.
- 4. THE DIMENSIONS OF THE PULL BOXES SHOWN ARE MINIMUM DIMENSIONS AND MAY VARY AS TO THE MANUFACTURER'S RECOMMENDATIONS. ALL DIMENSIONS SHALL BE VERIFIED BY THE PROJECT MANAGER

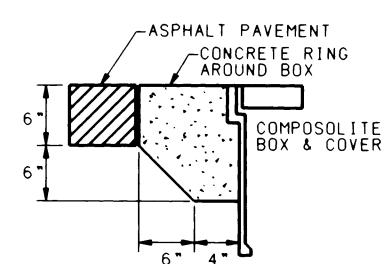


TYPICAL PULLBOX INSTALLATION

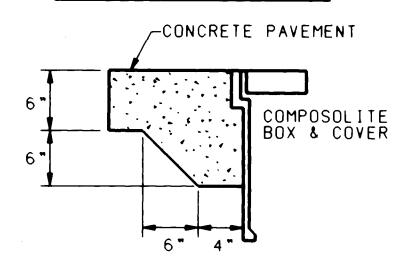
SEE DETAIL "A" BELOW



IN COMPACTED EARTH



IN ASPHALT PAVEMENTS

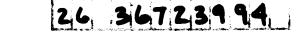


IN CONCRETE PAVEMENTS

CONCRETE COLLAR DETAIL FOR PULL BOXES

NOTE: THE CONCRETE FOR THE PULL BOXES WILL BE PAID FOR UNDER ITEM NO. 710010 AND NO OTHER MEASUREMENT OR PAYMENT WILL BE MADE THEREFOR

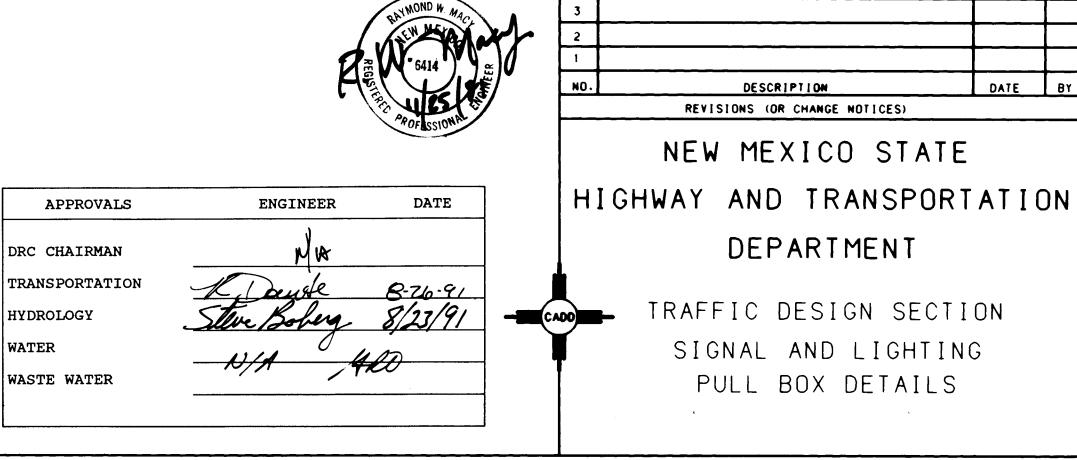
DETAIL "A"



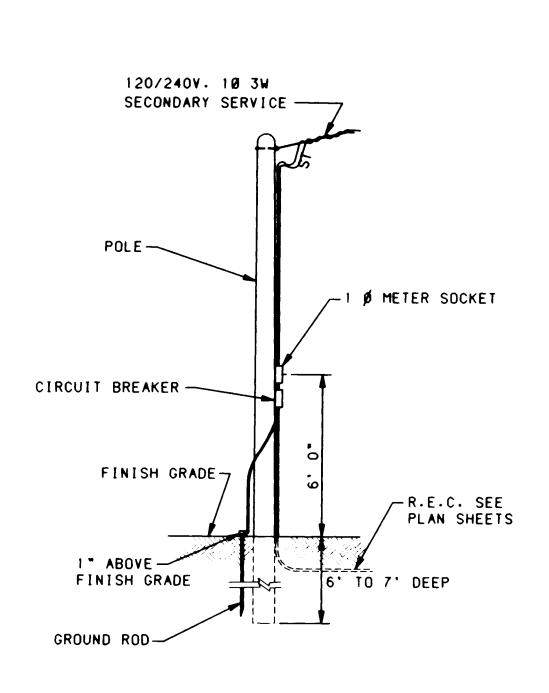
F.H.W.A. REGION NO. 6

NEW MEXICO PROJECT NO.

TPS-4040(2)



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NOTE:

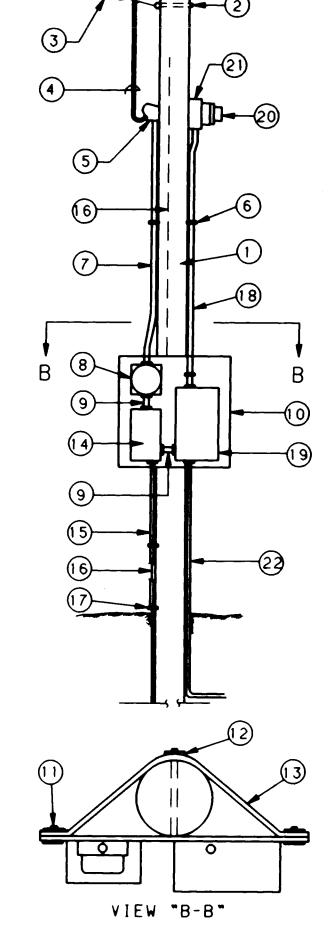
PROVIDE ONE 50A, IP 120V. CIRCUIT FOR CONTROLLER SIGNALS AND ONE 50A. IP CIRCUIT FOR DUPLEX CONVENIENCE OUTLET IN CONTROLLER. (USE A 15A FUSE TO PROTECT THIS CIRCUIT.)

MATERIAL LIST

- 25' TREATED POLE (SEE NOTE 1. BELOW) 1" X 1" G.R.C. NIPPLE
- SINGLE PHASE METER SOCKET CIRCUIT BREAKERS 50A IP IN RAINTIGHT ENCLOSURE (N.E.M.A.3R)
- 30' 1/C NO. 6 THW BLACK 30' 1/C NO. 6 THW WHITE
- 1/C NO. 6 THW RED COPPERWELD 3/4" X 10'-0" GROUND ROD
- GROUND ROD CLAMP
- 1" GALV. RIGID CONDUIT (APPROX.)
- 5/8" EYEBOLT 1" WEATHERHEAD
- NO. 6 BARE COPPER GROUND WIRE 5' 1/2" GALV. RIGID CONDUIT

SERVICE POLE (SIGNAL)

NO SCALE



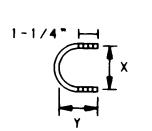
CENTER PHASE ANGLES

MATERIAL LIST

_____ U BOLT 5/8" x MACHINE BOLTS #4 SOL CU WIRE 2-1/4" SQUARE WASHER 5/8" MF LOCKNUT LINE TAP SUPPORT BRACKET GROUNDING LUG

UNIVERSAL SUPPORT BRACKETS NOTES

- 1. BRACKET TO BE FASTENED TO POLE WITH 5/8" GALVANIZED MACHINE BOLTS.
- 2. BRACKET SUITABLE FOR TWO 2". OR ONE 4" CONDUIT.
- 3. TWO HOLE STRAPS ATTACHED AT 30" INTERVALS WITH 2" LAG SCREWS MAY BE USED INSTEAD OF THE SUPPORT BRACKET WHEN THE CONDUIT IS 1" OR LESS. A MAXIMUM OF TWO CONDUITS MAY BE STRAPPED DIRECTLY TO THE POLE.



3/4"♦ X 10'-0"-

COPPERWELD

GROUND ROD

SIZE CONDUIT	X	Y
2*	2-7/8"	3-5/8"
4 "	5 *	5-3/4"

UNIVERSAL SUPPORT BRACKETS

NO SCALE

BUSHING

90° ELBOW

MATERIAL LIST

SERVICE POLE (LIGHTING)

NO SCALE

- WOOD POLE FULLY TREATED 30'-5" (SEE NOTE 1. BELOW) EYE BOLT 5/8" Ø 3 WIRE - 120/240 VOLT 10 SECONDARY NO.6 WIRE THW IDENTIFY PHASES 1" SERVICE ENTRANCE WEATHERHEAD CONDUIT CLAMPS 1" GALVANIZED RIGID STEEL CONDUIT METER SOCKET 10 NIPPLES TREATED PLYWOOD BACKBOARD 3/4" X 36" X 36" 1/4" GALVANIZED BOLT, NUT AND WASHER 5/8" BOLT THROUGH POLE. BOARD AND STRAP 1" X 1/8" GALVANIZED STEEL STRAP ---AMP 2P. RAINTIGHT MULTI-BREAKER 1/2" GALVANIZED RIGID STEEL CONDUIT NO. 6 AWG BARE SOLID WIRE 3/4" Ø X 10'-0" COPPERWELD GROUND ROD AND CLAMP 3/4" GALVANIZED RIGID STEEL CONDUIT - 3 NO. 12 THW ---AMP 2P. LIGHTING CONTACTOR R.T. 240 VOLT PHOTO-ELECTRIC CONTROLLER, FACING NORTH 16' ABOVE GRADE - 240 VOLT 1Ø WEATHERPROOF JUNCTION BOX 1 1/2" GALVANIZED RIGID STEEL CONDUIT
- NIPPLE METER SOCKET MINIMUM RATING 100 AMP. FACTORY WIRED IN SEPARATE WIREWAY FROM TERMINAL BLOCK TO METER SOCKET. - POWER OUTLET PANEL WITH MINIMUM 10,000 AMP INTERRUPTING RATING - INSULATED STUD TERMINAL BLOCK OR BUS PADS TO ACCOMODATE UTILITY CO. COMPRESSION TYPE LUGS. PENTAHEAD PEDESTAL BONDING LUG GROUNDING CONDUCTOR MUST BE CONTINUOUS TO PLASTIC BREAKER PANEL GROUNDING TERMINAL. BUSHING - TERMINATION SECTION TO HAVE CONDUIT REMOVAL RAINTIGHT COVER WITH FINAL GRADE PROVISION FOR PADLOCKING, ALL OTHER REMOVABLE PORTIONS OF TERMINATION SECTION MUST BE SEAL ABLE. PEDESTAL CONSTRUCTED FROM 14 GA. CONCRETE . STEEL WITH CORROSIVE RESISTANT FINISH.

SERVICE POLE (SIGNAL)

(FOR UNDERGROUND SERVICE)

NO SCALE

1. WEATHERHEAD SHALL BE 3" ABOVE NEUTRAL. 2. NO STANDOFF BRACKET REQUIRED IF CONDUIT IS 1" MATERIAL LIST

CONNECTIONS TO BE PROVIDED AND INSTALLED BY LOCAL

UTILITY COMPANY

OR LESS. UP TO 2 CONDUITS 1" OR LESS MAY BE STRAPPED TO THE POLE.

SINGLE PHASE PEDESTAL METERING NOTES

3. CONTACT LOCAL UTILITY COMPANY SERVICES FOR POLE QUADRANT.

SERVICE POLE (SIGNAL)

SEE DETAIL THIS SHEET

CONDUIT INSTALLED -GROUND ROD PER

NATIONAL ELECTRIC

- 4. ALL ABOVE-GRADE CONDUIT SHALL BE GALVANIZED.
- 5. CONTRACTOR SHALL PROVIDE & INSTALL CONDUIT BRACKETS, WEATHER HEAD, CONDUCTORS, METER BASE AND ALL MINOR FITTINGS.
- 6. RISER BRACKET ASSEMBLY MUST HAVE PROVISIONS FOR GROUNDING BY LOCAL UTILITY COMPANY.

2" CLAMP TYP WEATHER HD

F.H.W.A, REGION NO. 6 NEW MEXICO PROJECT NO.

TPS-4040(2)

30' 2" GALVANIZED CONDUIT UNIVERSAL SUPPORT BRACKET

UNIVERSAL SUPPORT BRACKET - SEE DETAIL

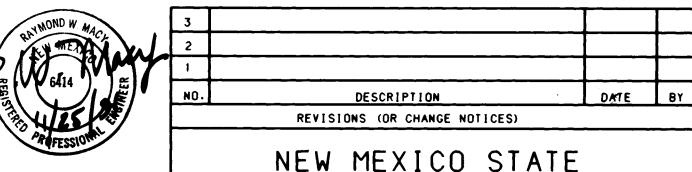
POLE GROUND ASSEMBLY
TO BE PROVIDED AND
INSTALLED BY LOCAL
UTILITY COMPANY

THIS SHEET

- 2" PIPE STRAP KIT 2" GALVANIZED ELBOW
- 5/8" x MACHINE BOLT 5/8" LOCKNUT
- 2-1/4" SQUARE WASHER
- 2" GALVANIZED COUPLING LINE TAP
- #10-#2 GROUND LUG GROUND ASSEMBLY

SINGLE PHASE PEDESTAL METERING

NO SCALE



26 36724094

Part & 1 of the Manage & Formation

DATE APPROVALS **ENGINEER** DRC CHAIRMAN TRANSPORTATION 8-26-91 Bobera 8/23/91 CA00 HYDROLOGY WATER WASTE WATER

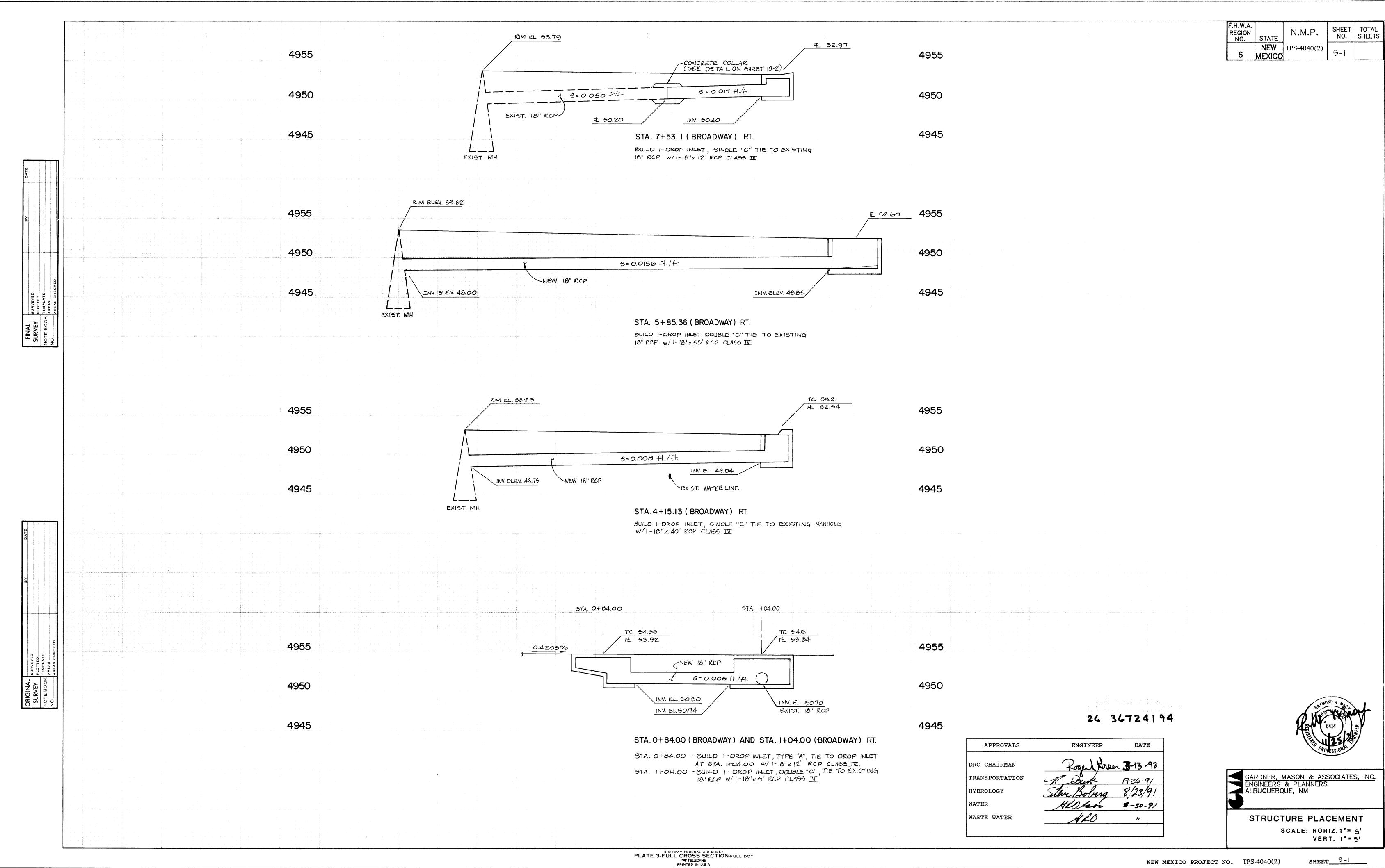
NEW MEXICO STATE HIGHWAY AND TRANSPORTATION DEPARTMENT

TRAFFIC DESIGN SECTION SIGNAL AND LIGHTING SERVICE DETAILS

GENERAL NOTES:

- 1. BID ITEM FOR SERVICE CONNECTION IS THE SAME DETAIL AS SERVICE POLE EXCEPT WITHOUT POLE.
- 2. SERVICE POLE (SIGNAL) FOR UNDERGROUND SERVICE INCLUDES UNIVERSAL SUPPORT BRACKETS AND SINGLE PHASE PEDESTAL METERING.

SHEET 8-11



NEW MEXICO PROJECT NO. TPS-4040(2)

F.H.W.A.
REGION
NO.
STATE

NEW
MEXICO

N.M.P.
SHEET
NO.
SHEETS

TPS-4040(2)

9-2

TC 53.30 FL 52.63 RIM EL. 53.50 4955 4955 4950 4950 5=0.02167 H/H. 4945 INV. EL. 48.50 4945 INV. EL. 47.72 MH #6 4940 STA. 1+45.31 (LOMAS) RT. 4940 BUILD 1-DROP INLET, DOUBLE "C"-RT. BUILD 1-18" x 36' RCP CLASS IV; TIE INTO EXISTING MANHOLE

APPROVALS

ENGINEER

DATE

DRC CHAIRMAN

TRANSPORTATION

HYDROLOGY

WATER

WASTE WATER

ENGINEER

DATE

Roger Vico. 3-13-97

Value Boling 8/23/9/

WASTE WATER

ALCOMA 8-30-9/

26 36724294

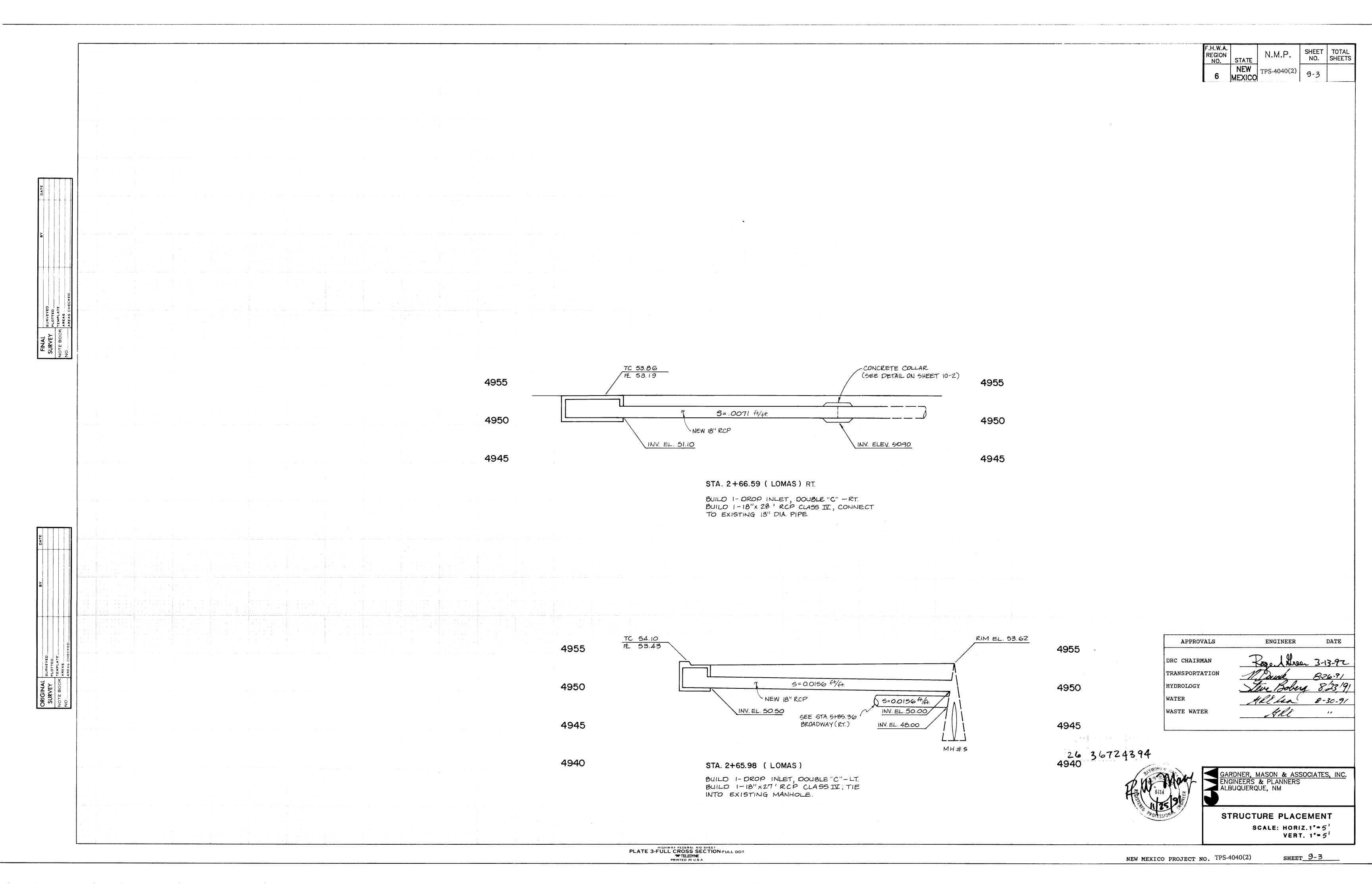


GARDNER, MASON & ASSOCIATES, INC.
ENGINEERS & PLANNERS
ALBUQUERQUE, NM

STRUCTURE PLACEMENT

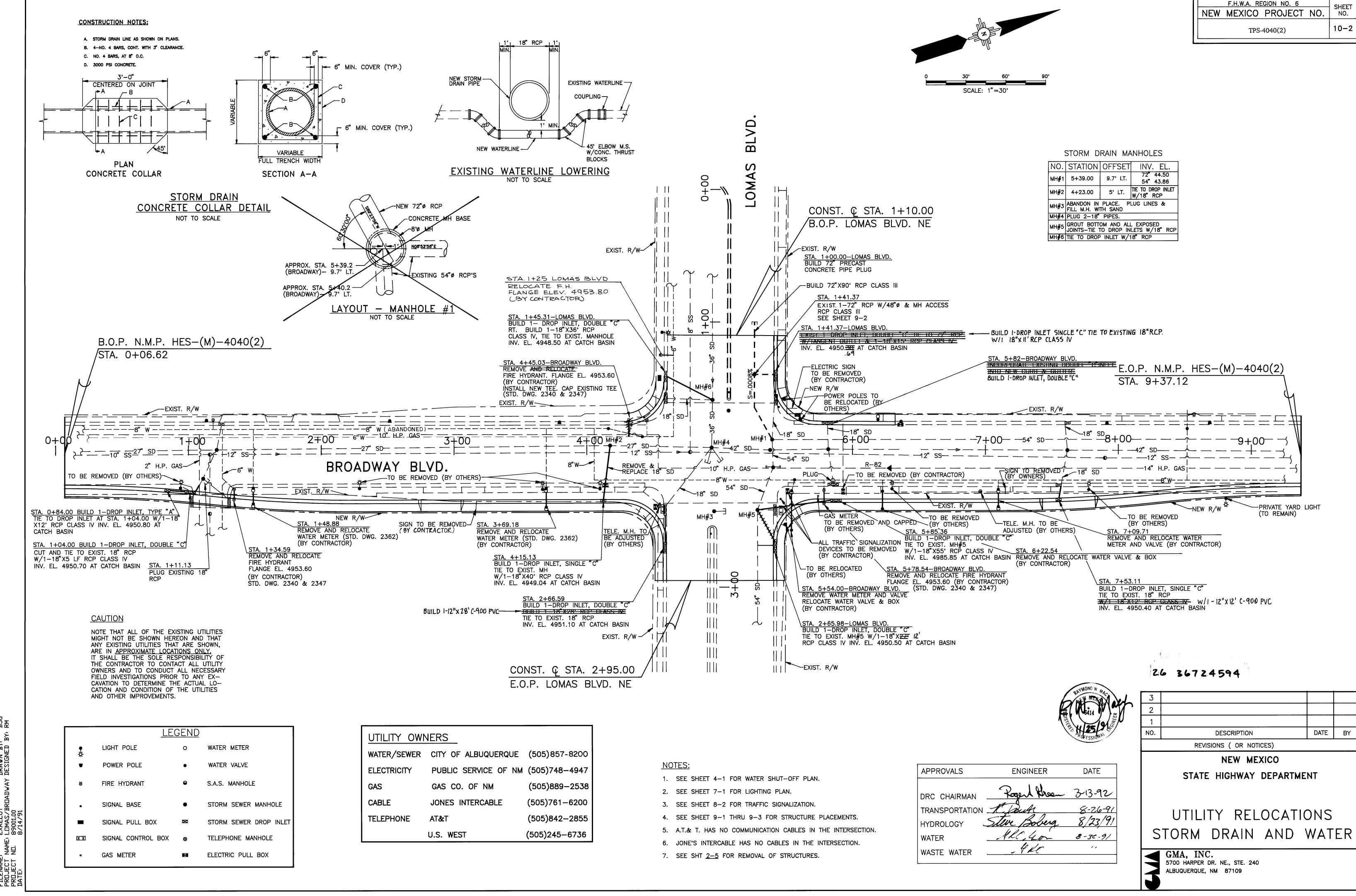
SCALE: HORIZ.1"=5'

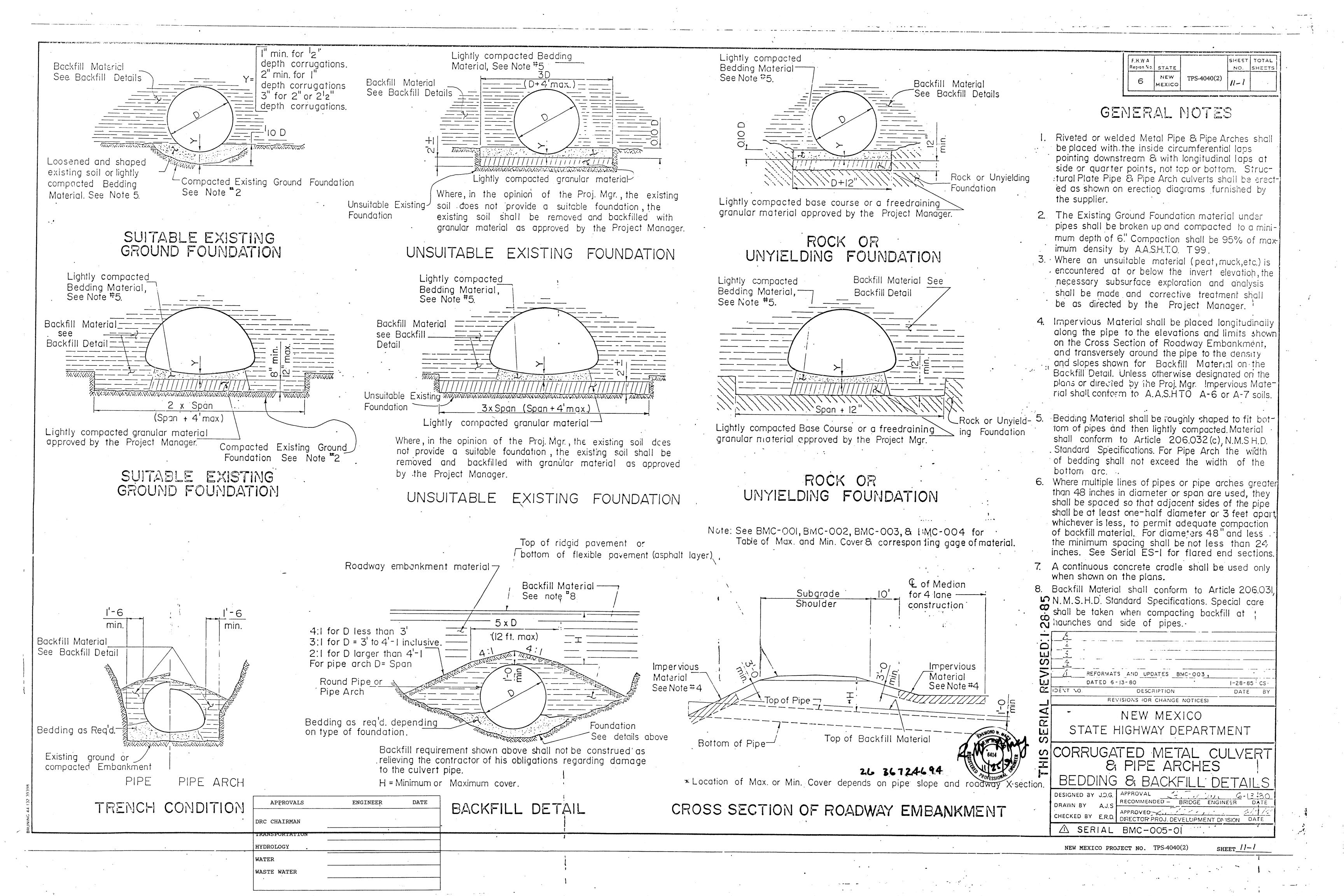
VERT. 1"=5'



F.H.W.A. REGION NO. 6

NEW MEXICO PROJECT NO. TPS-4040(2) CONST. @ STA. 1+10.00 B.O.P. LOMAS BLVD. NE EXIST. R/W-/ B.O.P. N.M.P. HES-(M)-4040(2) STA. 0+06.62 E.O.P. N.M.P. HES-(M)-4040(2) —ELECTRIC SIGN
TO BE REMOVED
(BY CONTRACTOR) STA. 9+37.12 POWER POLES TO BE RELOCATED (BY BROADWAY BLVD. -PRIVATE YARD LIGHT (TO REMAIN) _TO BE REMOVED (BY OTHERS) TO BE REMOVED (BY OTHERS) NEW R/W TO BE REMOVED AND CAPPED (BY OTHERS) TELE. M.H. TO BE
ADJUSTED (BY OTHERS) SIGN TO BE REMOVED-(BY CONTRACTOR) TELE. M.H. TO BE ADJUSTED (BY OTHERS) ALL TRAFFIC SIGNALIZATION
DEVICES TO BE REMOVED
(BY CONTRACTOR) TO BE RELOCATED (BY OTHERS) <u>CAUTION</u> NOTE THAT ALL OF THE EXISTING UTILITIES EXIST. R/W -MIGHT NOT BE SHOWN HEREON AND THAT ANY EXISTING UTILITIES THAT ARE SHOWN,
ARE IN APPROXIMATE LOCATIONS ONLY.
IT SHALL BE THE SOLE RESPONSIBILITY OF
THE CONTRACTOR TO CONTACT ALL UTILITY
OWNERS AND TO CONDUCT ALL NECESSARY
FIELD INVESTIGATIONS PRIOR TO ANY EX-26 36724494 EXIST. R/W CONST. @ STA. 2+95.00 E.O.P. LOMAS BLVD. NE CAVATION TO DETERMINE THE ACTUAL LO-CATION AND CONDITION OF THE UTILITIES AND OTHER IMPROVEMENTS. DATE BY **DESCRIPTION** <u>LEGEND</u> UTILITY OWNERS REVISIONS (OR NOTICES) WATER METER LIGHT POLE WATER/SEWER CITY OF ALBUQUERQUE (505)857-8200 NEW MEXICO NOTES: DATE **ENGINEER** APPROVALS WATER VALVE STATE HIGHWAY DEPARTMENT POWER POLE PUBLIC SERVICE OF NM (505)748-4947 ELECTRICITY 1. SEE SHEET 4-1 FOR WATER SHUT-OFF PLAN. Rogerd Green 3-13-92 (505)889-2538 S.A.S. MANHOLE GAS CO. OF NM FIRE HYDRANT GAS 2. SEE SHEET 7-1 FOR LIGHTING PLAN. DRC CHAIRMAN (505)761-6200 JONES INTERCABLE 3. SEE SHEET 8-2 FOR TRAFFIC SIGNALIZATION. **CABLE** 8-26-91 EXISTING UTILITIES TRANSPORTATION STORM SEWER MANHOLE SIGNAL BASE 8/23/9! 4. SEE SHEET 9-1 THRU 9-3 FOR STRUCTURE PLACEMENTS. (505)842-2855 TELEPHONE AT&T HYDROLOGY STORM SEWER DROP INLET SIGNAL PULL BOX 5. A.T.& T. HAS NO COMMUNICATION CABLES IN THE INTERSECTION. 2.30-9/ (505)245-6736 WATER U.S. WEST 6. JONE'S INTERCABLE HAS NO CABLES IN THE INTERSECTION. TELEPHONE MANHOLE SIGNAL CONTROL BOX ALO GMA, INC. WASTE WATER 5700 HARPER DR. NE., STE. 240 ELECTRIC PULL BOX GAS METER ALBUQUERQUE, NM 87109





REVISED 11-10-58 - "H" COLUNN LINE POST 2 Chain link fabric shall conform to AASHTO Designation M-181 . REVISED 5-24-60; FENCING, ETC, CHANGED 3. All concrete to be Class A. REVISED 3-2-GI; FENCING ETC CHANGED REVISED 10-16-61; PIPE DIAM.-POSTS; I'ENCING. 4 Knuckled Selvage shall be used. Revised 3-10-64-Chain link, etc.
Revised 5-15-64 Chain link Fence (Title) &
Added note # 5. To General Notes.
Revised 2/27/78 All Diameters Changed to
O.D. also Gen. Note # 5 5. Diameters (O.D.) shown hereon are nominal sizes as established by the American Standards Association. 2 INCH MESH, 1483" WIKE Note: Concrete around corrier and ...
Gate posts shall be 12" Dia... or square min. and on line 10' O" CENTER TO CENTER (MAX.) posts 8 Die or square min 10°-0"Ctr. to Ctr. (Max) 12."Square-cr12"-Dia. 12" SQUARE -TABLE CHAIN LINK ACCESS CONTROL FENCE FOOTING DEPTH: TIE WIRE -LINE POSTS : 2-0" END AND CORNER:3:0" STRETCHER 1.66"O.D. PIP & TOP & BRACE RAIL LINE POST METHOD OF TYING FABRIC TO TOP L66"O.D.Pipe GATE' FRAME 22% LBS/FT. AND BRACE RAILS AND LINE POSTS END AND GATE POST CONNECTIONS 1.66 O.D. Pipe OPTIONAL LINE POST Use 1.63 * 0.D. Top and Brace Rails and Gate Frames to 6' width.

Use 1.90 * 0.D. for Line Posts and Gate Frames to 13' width.

Use 2.8 / 5 * 0.D. for End Posts, Corner Posts

and Gate Posts for single gate openings to 6' width.

Use 4.00 * 0.D. for Gate Posts for single gate

openings to 13' width and double gate openings. "H" COLUMN 2.27 LBS/FT. LINE POST O.D. Pipe 28 LBS / FT. TOP & BRACE RAIL 168 LBS/FT. APPROVALS METHOD OF TYING FABRIC TO LINE POST DRC CHAIRMAN TRANSPORTATION HYDROLOGY WATER WASTE WATER NISTITISTITIST 26 36724794 WITH OFF-SET 180° HINGES CHAIN LINK ACCESS CONTROL FENCE (Drive Gate) THIS SERIAL REVISED TOP RAIL USE 1.315" O.D. FOR LINE POSTS USE 1.66" O.D. SINGLE GATE DOUBLE GATE WITH OFF-SET 180° HINGES FOR END POSTS USE 2.375" O.D. (Walk Cate) NEW MEXICO (Drive Gate) CHAIN LINK FERCE AND DETAILS STATE HIGHWAY DEPARTMENT FITTED GATE CORNER WELDED GATE CORNER TO BE USED AT SCHOOLS, ETC. OFTIONAL GATE CORNER TYPES

his intermediate helphacin tha Rentroduction Section file

FER ROAD STATE

NEW MEXICO PROJECT NO. TPS-4040(2)

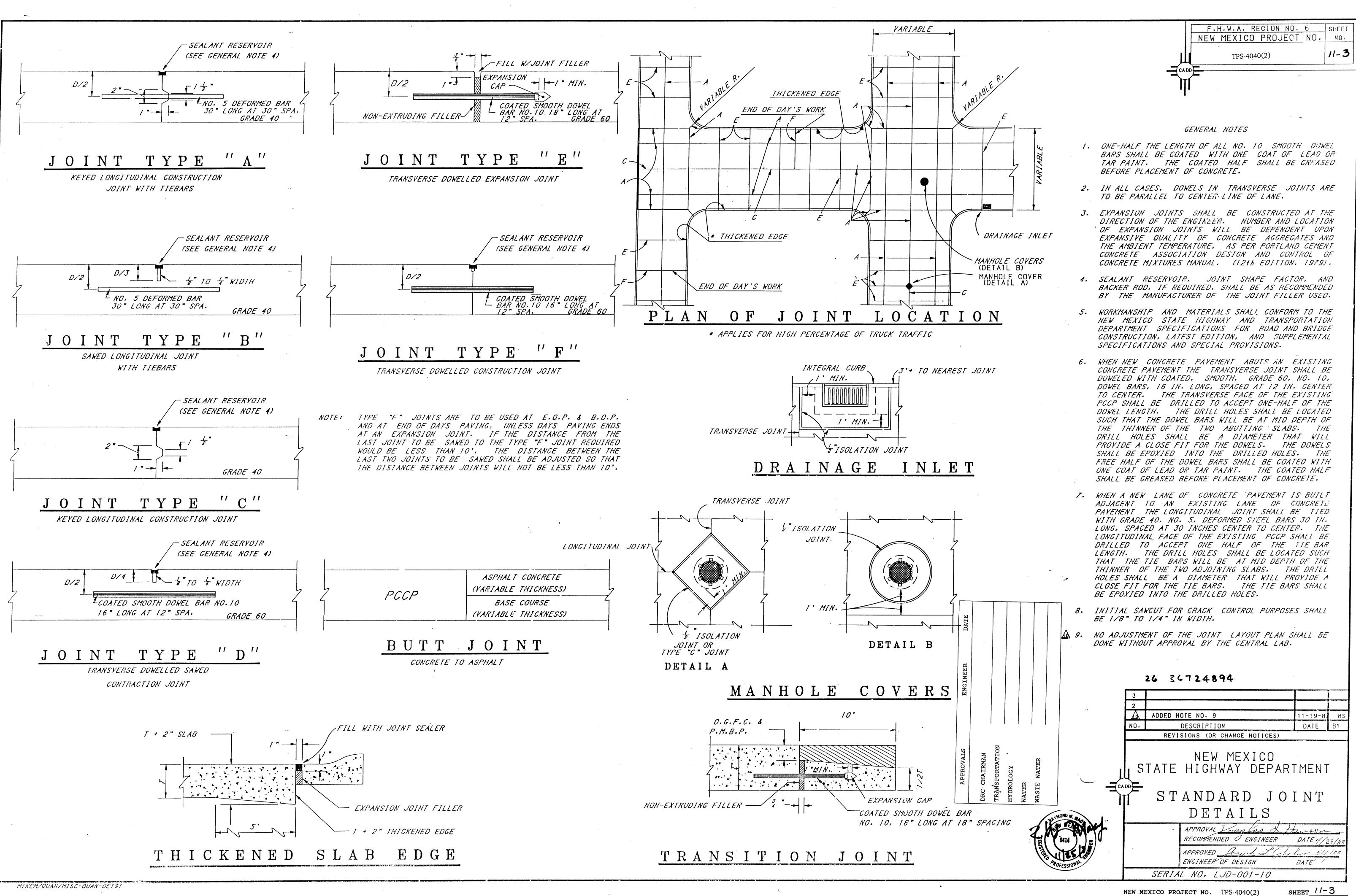
· GENERAL NOTES ·

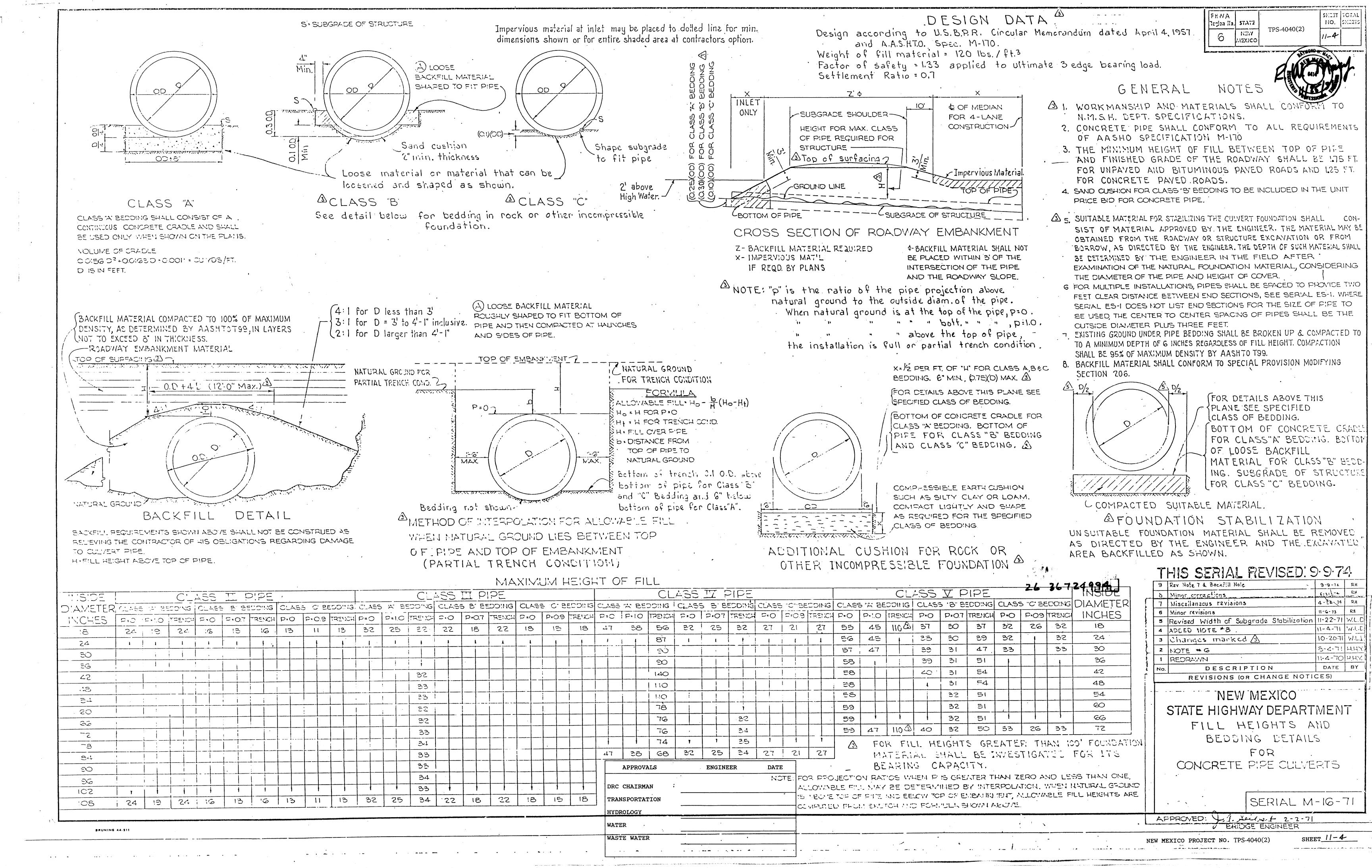
THEN MARIEME

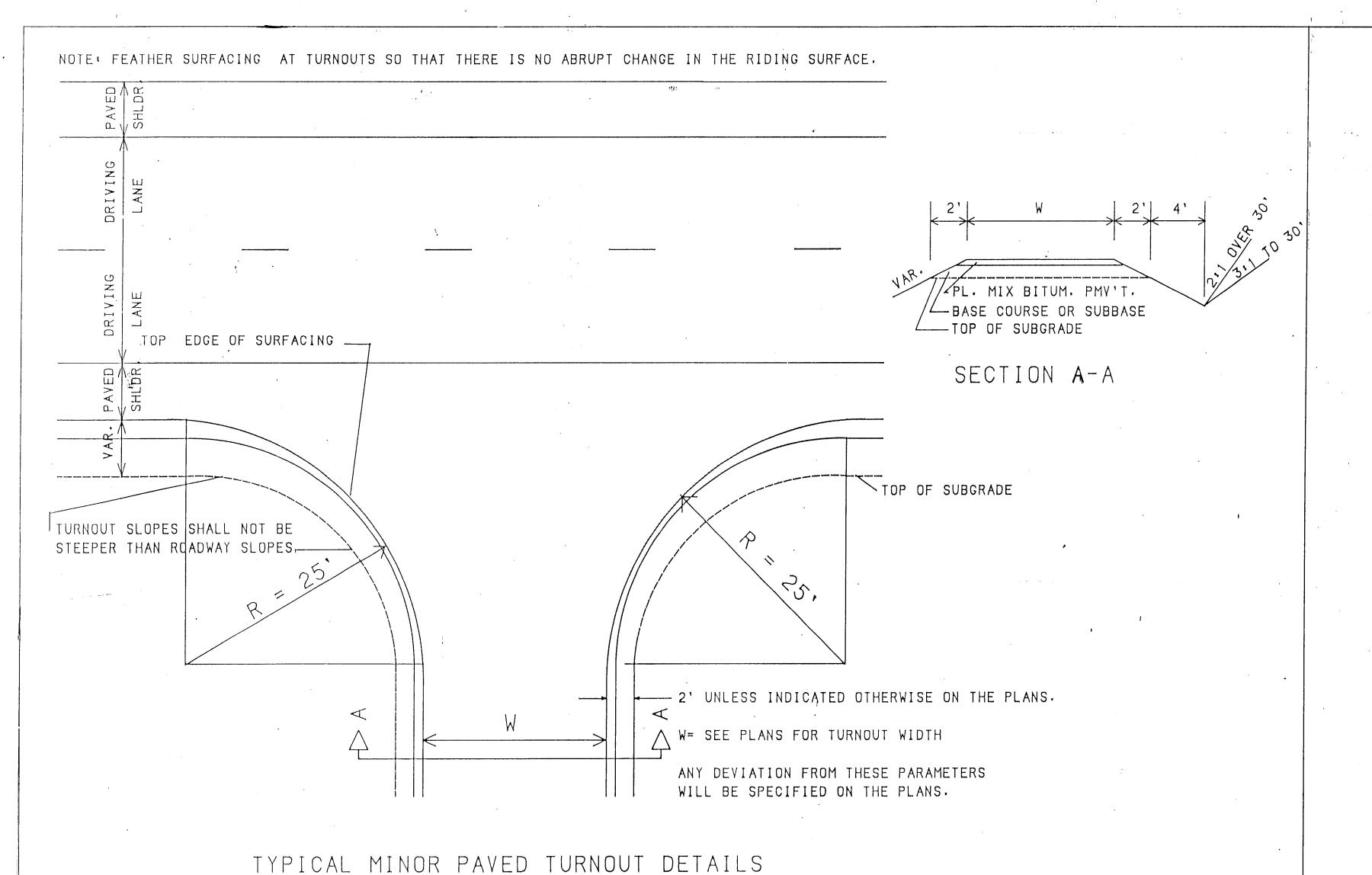
1 Tubular posts, braces and top rails shall conform to the requirements of ASTM Designation A 120.

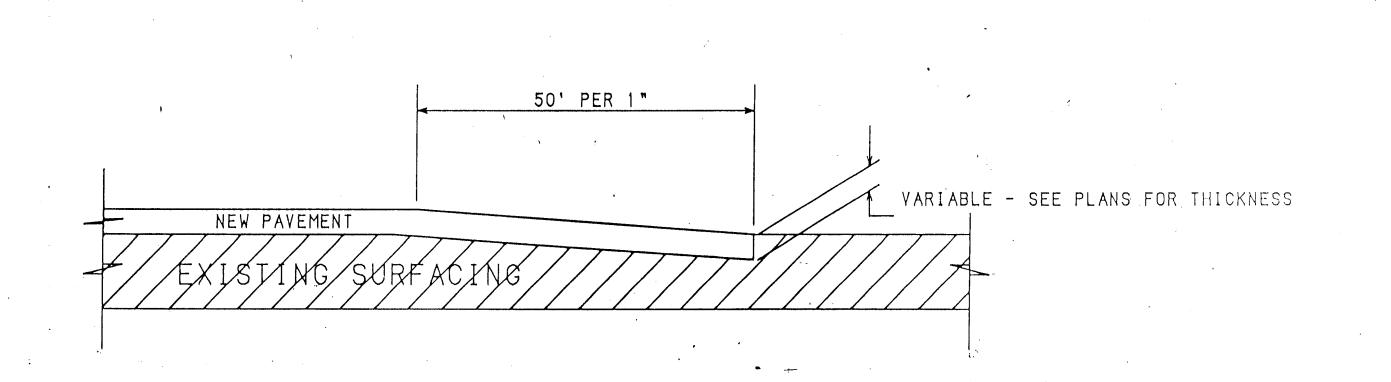
NO. SHEETS

TPS-4040(2)









SŤATE

NEW

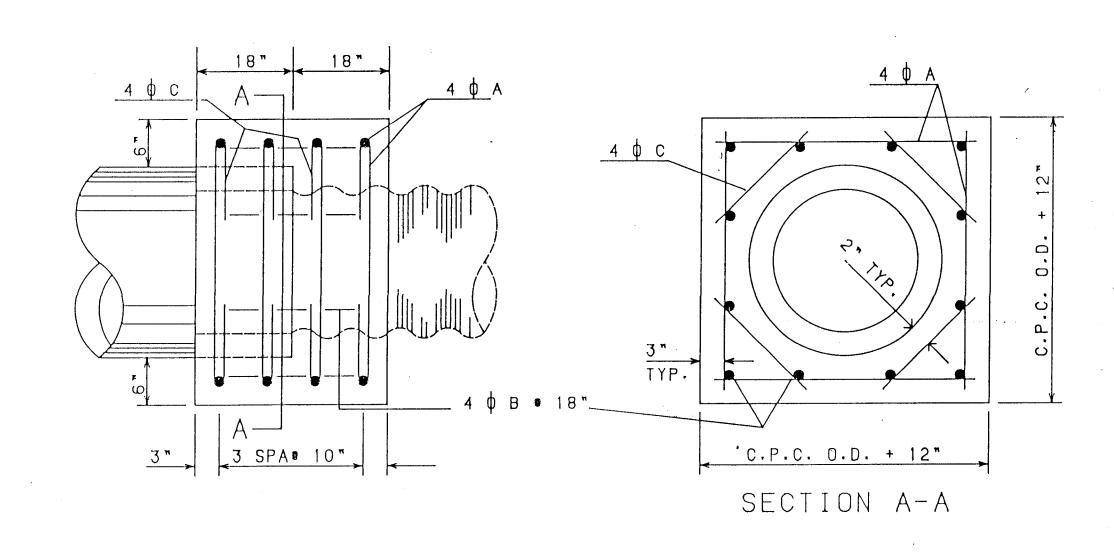
MEXICO

TPS-4040(2)

NO.

REMOVE THE EXISTING SURFACING IMMEDIATELY PRIOR TO PLACING THE NEW PAVEMENT, IN ORDER TO CONSTRUCT A FLUSH SURFACE CONNECTION. PAYMENT FOR THE PAVEMENT REMOVAL WILL BE INCLUDED IN THE UNIT PRICE BID FOR PLANT MIX BITUMINOUS PAVEMENT. THE METHOD USED FOR REMOVING EXISTING SURFACING MUST BE APPROVED BY THE PROJECT MANAGER. THE SURFACING CONNECTION LENGTH MAY BE MODIFIED IN THE FIELD BY THE PROJECT MANAGER.

SURFACING CONNECTION



			T				
INSIDE DIA.	OUTSIDE DIA.	C.P.C. O.D. + 12"	4 \$ A (NO.\$ LENGTH)	4 \$\phi\$ B(NO.\$ LENGTH)	4 ¢ C(NO.\$ LENGTH)	REIN. BARS	CLASS "A" CONC.
18"	23"	2.9167'	16 21-6"	8 0 2'-9"		41 LBS,	0.69 CU.YD.
24"	30"	3.5000'	16 # 3'-3"	12 12'-9"		57 LBS.	0.91 CU.YD.
30 "	37 "	4.0833'	16 # 3'-9"	12 % 2'-9"		62 LBS.	1.17 CU.YD.
36"	44"	4.6667'	16 # 4'-3"	12 \$ 2'-9"		67 LBS.	1.44 CU.YD.
48"	58 "	5.6333'	16 • 5'-6"	16 12'-9"	16 2'-9"	118 LBS,	2.06 CU.YD.
60"	65"	6.4167'	16 8 6'-0"	20 2'-9"	16 • 3'-3"	144 LBS.	2.78 CU.YD.

THE COST OF CONCRETE COLLAR SHALL BE INCLUDED IN THE UNIT PRICE BID FOR CULVERT PIPE.

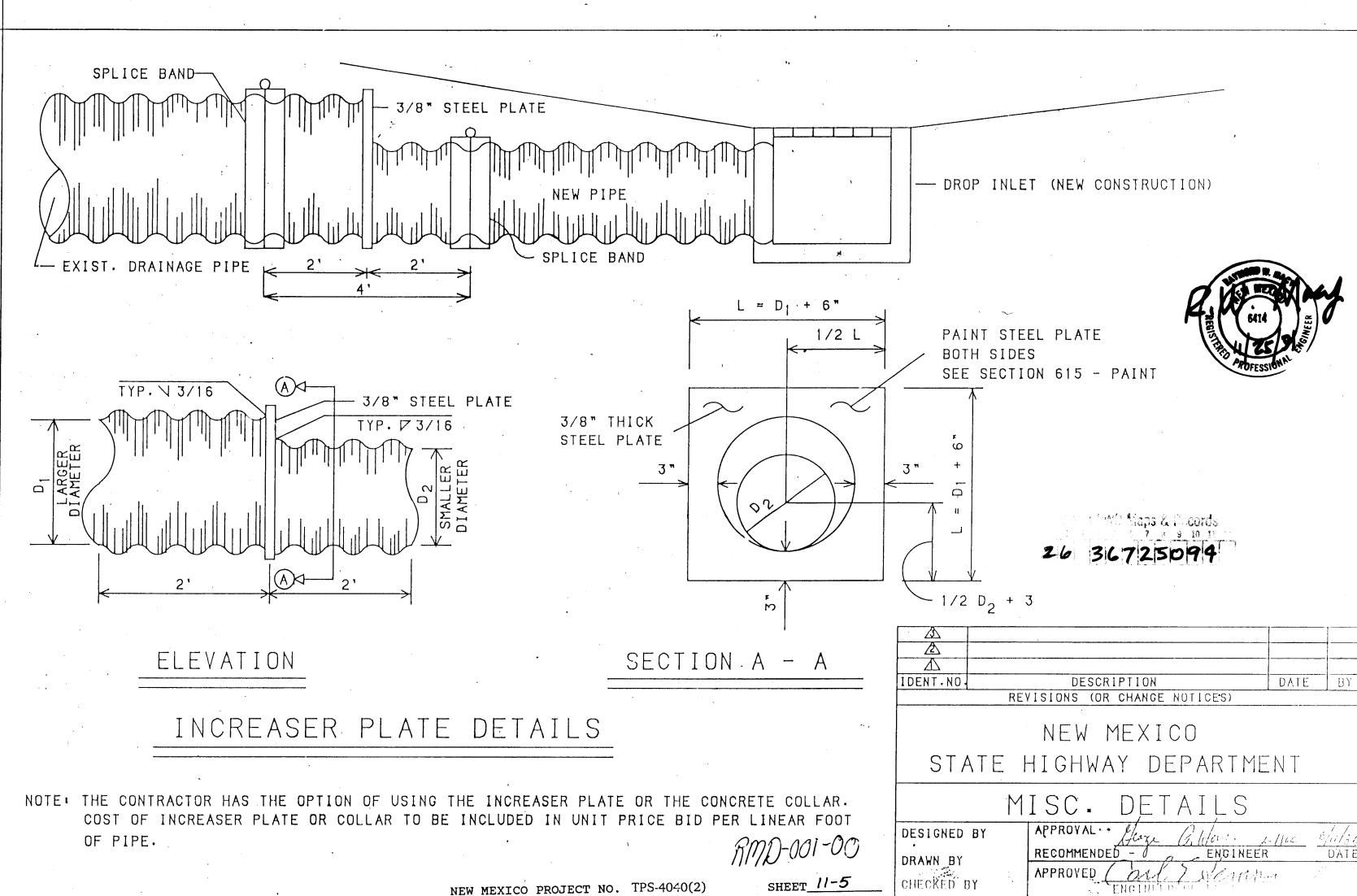


CHART TO DETERMINE POST SIZE

			,				<u> </u>							
							}-	1 in	fee	† .	•			
· 	Post Size	H	5	6	7	8	9	10		12	13	14	15	.16
X	1/2" x 1/2"	 	4.9	4.1	3.5	3.C	2.7	2.4	2.2	2.0	1.9	1.7		
- HICK	1 ³ / ₄ " x 1 ³ / ₄ "	08	7.5	6.2	5.3	4.7	4.1	3.7	3.4	3.1	2.9	2.7		
1046	2"x 2"	a ~	10.5	8.8	7.5	6.6	5.8	5.3	4.8	4.4	4.0	3.8		
\\ \frac{1}{2} \rightarrow \\ \frac{1} \rightarrow \\ \frac{1}{2} \rightarr	21/4"x·21/4"	PER	14.0	11.7	10.0	8.8	7.7	7.1	6.4	5.9	5.3	5.1		
×.	23/16"x 23/16"	EA A	16.7	13.9	11.9	10.4	9.3	8.3	7.6	7.0	6.4	6.0	5.6	5.2
15.0X	2 1/2" x 2 1/2"	AA	222	18.5	15.8	13.8	12.3	11.1	10.1	9.2	8.5	7.9	7.4	6,9
4. Ν		Z					•							<u>.</u>
<u> 10</u>		SIG	•								<u></u>		. •	

EXAMPLE:

DETERMINE SIZE AND NUMBER OF POSTS TO USE WITH SIGN 4'x 4' AREA = 16°'.

DETERMINE DESIGN HEIGHT FROM ROADWAY CROSS SECTION IN CONJUNCTION WITH SIGN, SIZE (DESIGN HEIGHT (H)) IS FROM THE GROUND ELEVATION AT THE BASE OF THE LONGEST POST TO CENTER OF SIGN).

SOLUTION:

FROM ROADWAY CROSS SECTION, CLEARANCE TO BOTTOM OF SIGN = 9.5' SIGN DEPTH IS 4'.

DESIGN HEIGHT

NUMBER OF POSTS (n) NEEDED FOR A * 16" WOULD BE n * 2 (NORMALLY NOT OVER 10 TO 12 SQ. FT. PER POST). SIGN AREA PER POST A, n * 16/2 * 8 " PER POST.

ENTER CHART AT TOP WHERE H: 12.0' PROCEED DOWNWARD TO AN AREA EQUAL TO OR GREATER THAN SIGN AREA PER POST. THEN PROCEED TO THE LEFT TO FIND THE REQUIRED POST SIZE.

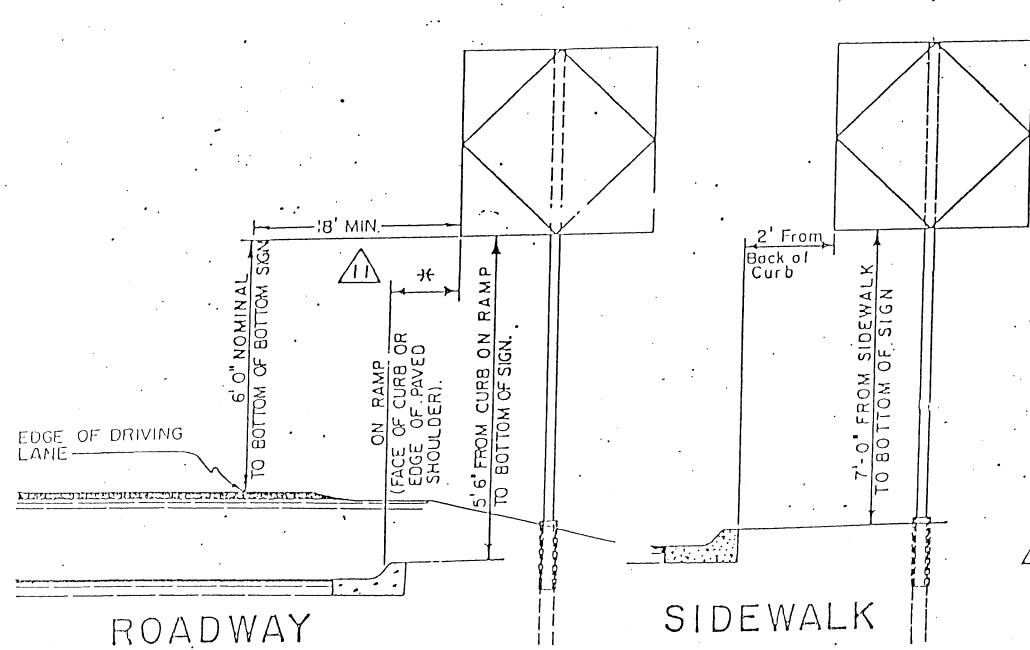
THIS COMES OUT TO BE A 21/2 x 21/2, 10 GA. POST.

THE LENGTH OF THE LONGER POST WILL THEN BE THE 9.5' FROM GROUND LINE TO BOTTOM.

OF SIGN PLUS THE SIGN HEIGHT (5.0' IN THIS CASE) PLUS THE 1.5' IN THE GROUND FOR A TOTAL

OF 16 0', THE OTHER POST LENGTH WILL BE 16.0' MINUS THE DIFFERENCE "A" (IN THIS CASE

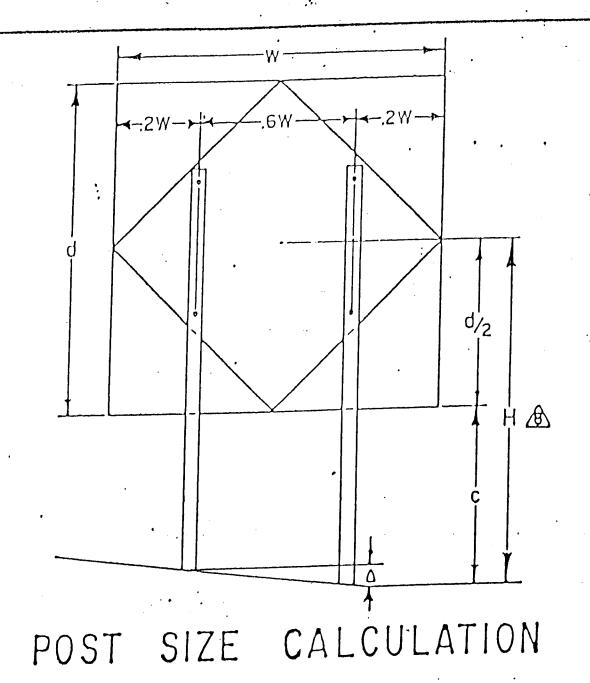
16 0' - 0 4' OR 15.6')

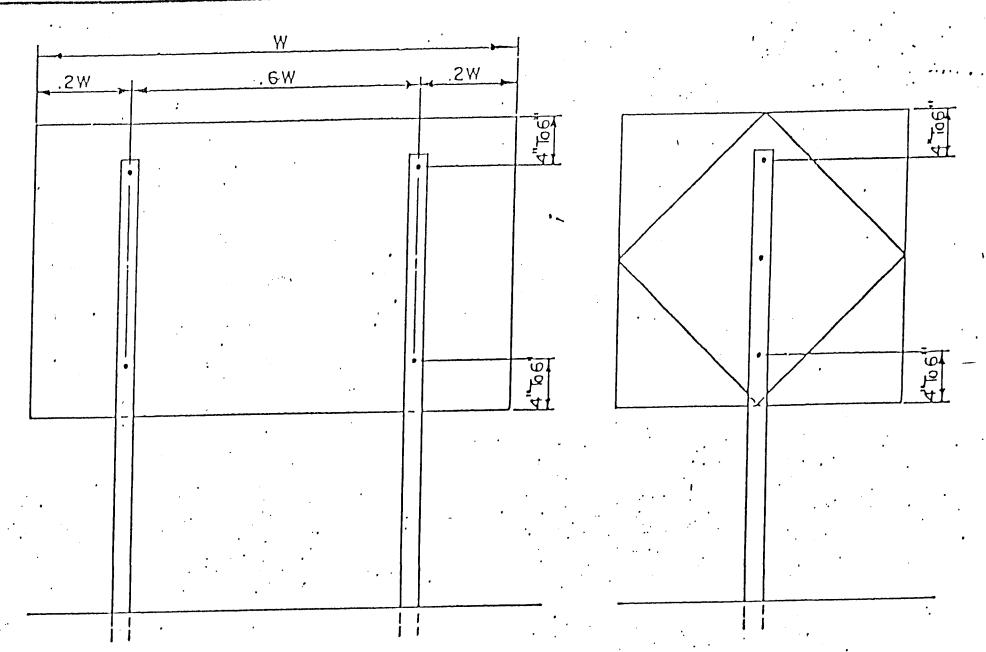


POST INSTALLATION

 \triangle

3' MIN. FROM FACE OF CURB OR 6' MIN. FROM EDGE OF PAVED SHOULDER

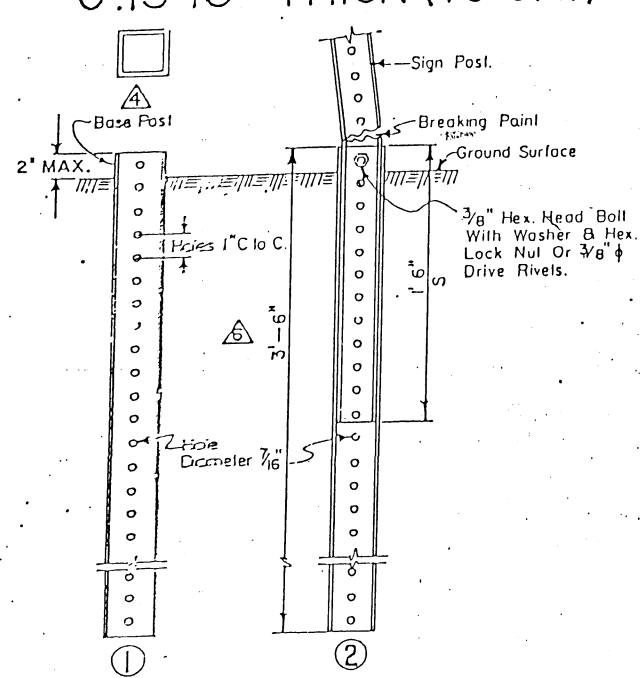




POST SPACING & SIGN MOUNTING NOTE: WHERE 3 POSTS ARE USED SPACING SHOULD BE

POSTS 0.1345" THICK (10 GA.)

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GROUND INSTALLATION

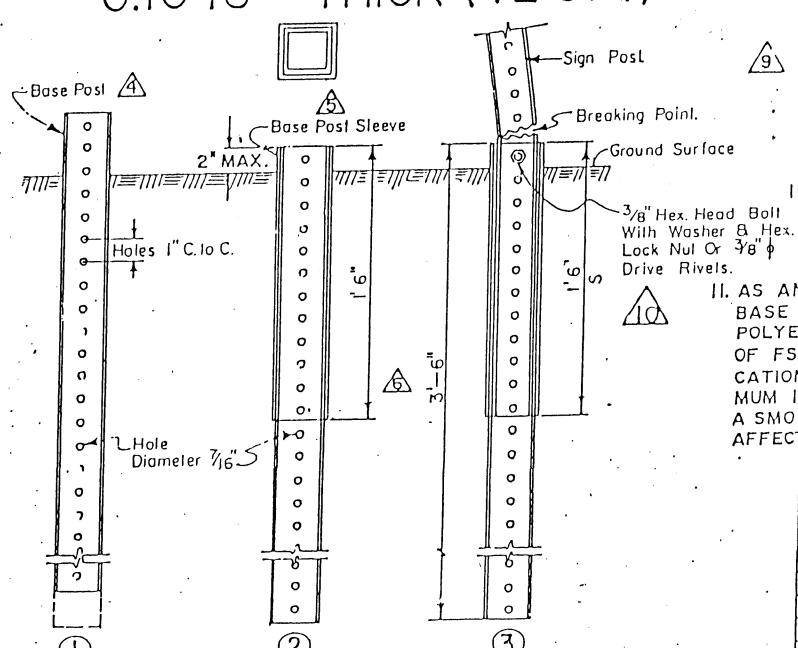
A L DRIVE BASE POST LITTLE ONE HOLE IS EXPOSED ABOVE GROUND FOR RIVET CR. BOLT INSTALLATION.

2. INSERT SIGN POST 15 OND FASTEN WITH 2 EACH 3/8" \$

DRIVE RIVET OR A 2007 FOLT.

3. THE HOLE PATTER! SECRY IS ONLY REQUIRED IN THE AREA OF THE BREAKAWAY INCLESCE AND AT THE SIGN PANEL LOCATION (HOLES MAY BE FELD DRILLED).

POSTS 0.1046" THICK (12 GA.)



GROUND INSTALLATION 26 36 725194

A I. DRIVE BASE POST TO WITHIN THREE OR FOUR INCHES OF SURFACE. BASE
POST IS NEXT SIZE LARGER SECTION THAN SIGN POST.

2. PRE-CUT BASE POST SLEEVE (of next size larger lube) SO THAT THE HOLES WILL MATCH AND STILL BE FLUSH WITH TOP OF THE CASE POST. DRIVE BASE POST SLEEVE UNTIL HOLES MATCH AS NOTED ABOVE, THEN DRIVE BOTH THE BASE POST SLEEVE AND THE BASE POST UNTIL ONE HOLE IS EXPOSED ABOVE GROUND FOR BOLT CONNECTION.

3. INSERT SIGN POST 1-6" FASTEN WITH 2 EACH 3/8" DRIVE RIVETS OR A 3/8" DOLT.

4. THE HOLE PATTERN SHOWN IS ONLY REQUIRED IN THE AREASOF THE BREAKAWAY INFLUENCE AND AT THE SIGN PANEL LOCATION (HOLES MAY BE FIELD DRILLED).

F.H.W.A.

Region No. STATE

NEW MEXICO

BHEET TOTAL NO. BHEETS

11-6

NOTES

MATERIALS AND WORKMANSHIP SHALL CONFORM NEW MEXICO STATE HIGHWAY DEPARTMENT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

2. BREAKAWAY SIGN SUPPORTS SHALL BE FABRICATED FROM PERFORATED STEEL AND SHALL CONFORM TO THE BREAKAWAY DESIGN SHOWN ON THIS SHEET, ALL HOLES TO BE 7/16" .

3. THE STEEL POSTS SHALL CONFORM TO COMMERCIAL QUALITY ASTM DESIGNATION A 446 GRADE A ZINC COATED (G 90) ASTM A 525. THE CROSS SECTION OF THE POST SHALL BE SQUARE TUBE FORMED OF 0,1046 THICK OR 0.1345 THICK.
ROLL FORMED CARBON STEEL WELDED DIRECTLY IN THE CORNER BY HIGH FREQUENCY RESISTANCE WELDING OR EQUAL AND EXTERNALLY SCARFED TO AGREE WITH CORNER RADII. STANDARD OUTSIDE CORNER RADIUS SHALL BE 5/32 PLUS OR MINUS 1/64.

4. BOLTS AND NUTS SHALL BE CARBON STEEL A-307 OR STAINLESS STEEL A-193.

5. DRIVING CAPS MUST BE USED TO DRIVE POS

6. BASE POST SLEEVE IS REQUIRED WITH 0.1046*
THICK POST; BUT NOT WITH 0.1345* THICK.

7.3" X 3" X 4' 0" BASE POST OF \$\frac{3}{16}" WALL
THICKNESS TO BE USED WITH 2\2' X 2\2'
0.1345 POST.

& POSTS SHALL HAVE A MINIMUM COLD FORMED YIELD STRESS OF 40,000 PSI.

9. DESIGN IS IN ACCORDANCE WITH AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS, 1976.

WIND LOAD: 19 LBS./SQ.FT (70 MPH) SOIL BEARING CAPACITY: 3 K/SQ.FT.

IO. CARBON STEEL NUTS, BOLTS AND WASHERS SHALL BE HOT DIP GALVANIZED A-153, CLASS D, ZINC COATED A-164, TYPE LS (O.0005 THICKNESS), OR CADMIUM COATED A 165, TYPE OS (O.0003 THICKNESS).

II. AS AN ALTERNATE TO GALVANIZING, STEEL POSTS AND BASE POSTS MAY BE PAINTED WITH A GREEN MODIFIED POLYESTER PAINT MEETING THE COLOR REQUIREMENTS OF FS 595-A (COLOR NO. 14109). METHOD OF APPLICATION SHALL BE BY ELECTRODEPOSITION TO A MINIMUM I MIL THICKNESS. FINISHED POSTS SHALL HAVE A SMOOTH, UNIFORM FINISH FREE FROM DEFECTS.

ILLIOTH ON ALL EXHIBITION		
ADDED NOTE No. 11	8/6/8	1614
REVISED NOTE No. 9	9/24/7	DIH.
CORRECTED LETTER REFERENCE	7-2470	rgia
ADDED LARGER POST SIZE TO CHART	2.2879	T.G 14
REV. BASE POST DIMENSION	12.5.77	
ANCHOR SLEEVE TO BASE POST SLEEVE	12.5.77	T.M.
SIGN POST ANCHOR TO BASE POST	12.5.77	
Ray, Note 4 & Add Note 10	6-6-71	<u>1.</u> [2
Rev. Note 4	3-31-77	
Rev. Ollsel Distance		
DESCRIPTION	DATE	BY.
REVISIONS (OR CHANGE NOTIC	CES)	
	ADDED NOTE No. II REVISED NOTE No. 9 CORRECTED LETTER REFERENCE ADDED LARGER POST SIZE TO CHART REV. BASE POST DIMENSION ANCHOR SLEEVE TO BASE POST SLEEVE SIGN POST ANCHOR TO BASE POST Ray, Note 4 & Add Note 10 Rev. Note 4 Rev. Offset Distance DESCRIPTION	ADDED NOTE No. II REVISED NOTE No. 9 CORRECTED LETTER REFERENCE ADDED LARGER POST SIZE TO CHART REV. BASE POST DIMENSION ANCHOR SLEEVE TO BASE POST SLEEVE 12-5-77 SIGN POST ANCHOR TO BASE POST Rev. Note 4 Rev. Note 4 Rev. Offset Distance 5/14.8

NEW MEXICO STATE HIGHWAY DEPARTMENT

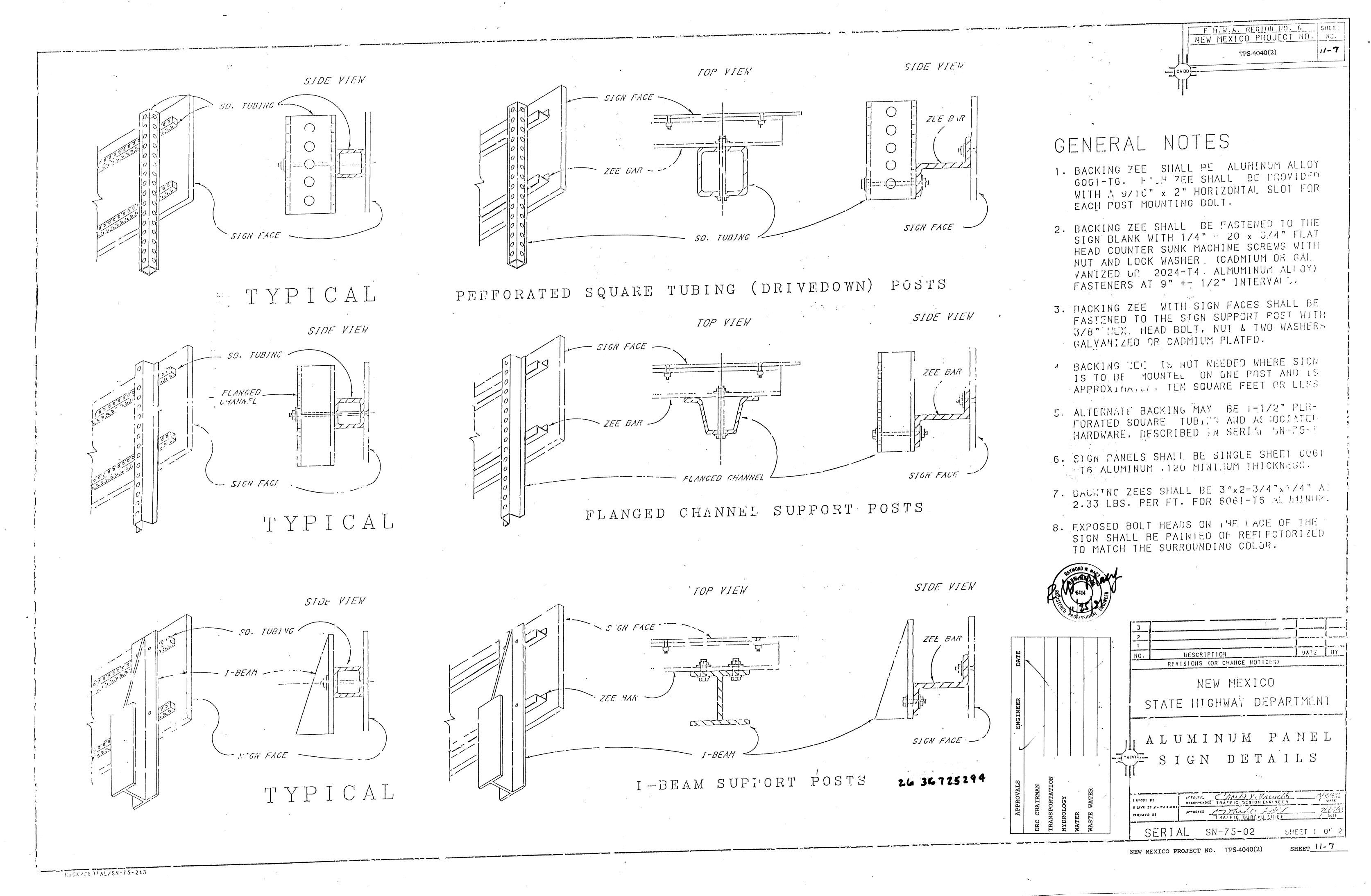
DESIGN LOADS FOR SQUARE TUBING POSTS

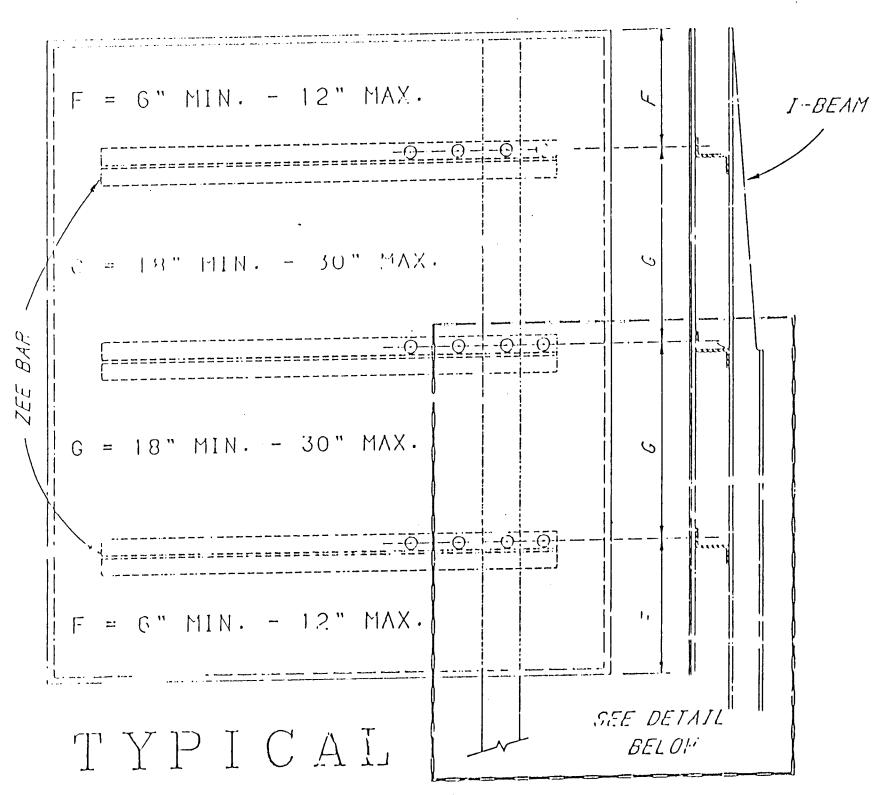
		The state of the s	7
	DESIGNED BY JG	RECOMMENDED - TRAFFIC ENGINEER	<u> </u>
	DRAYN BY JP.	APPROVED STUDIOS	9/5/2
İ	SERIAL	Sn 75-1 SHEET 0	F 9
			_

NEW MEXICO PROJECT NO.

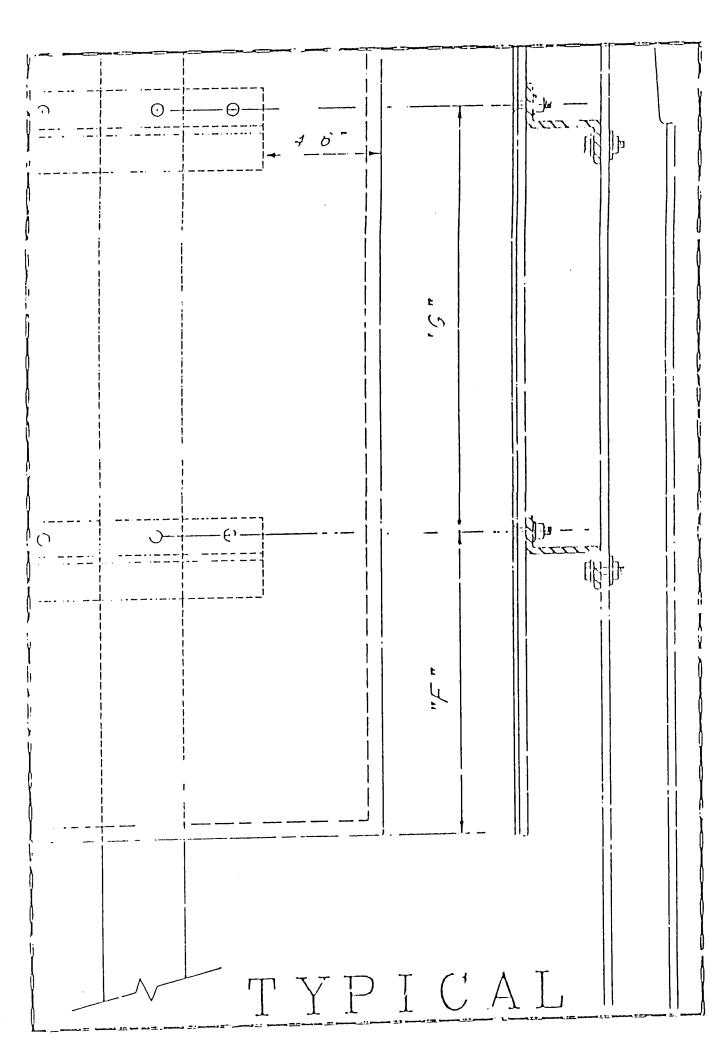
SHEET_//-6

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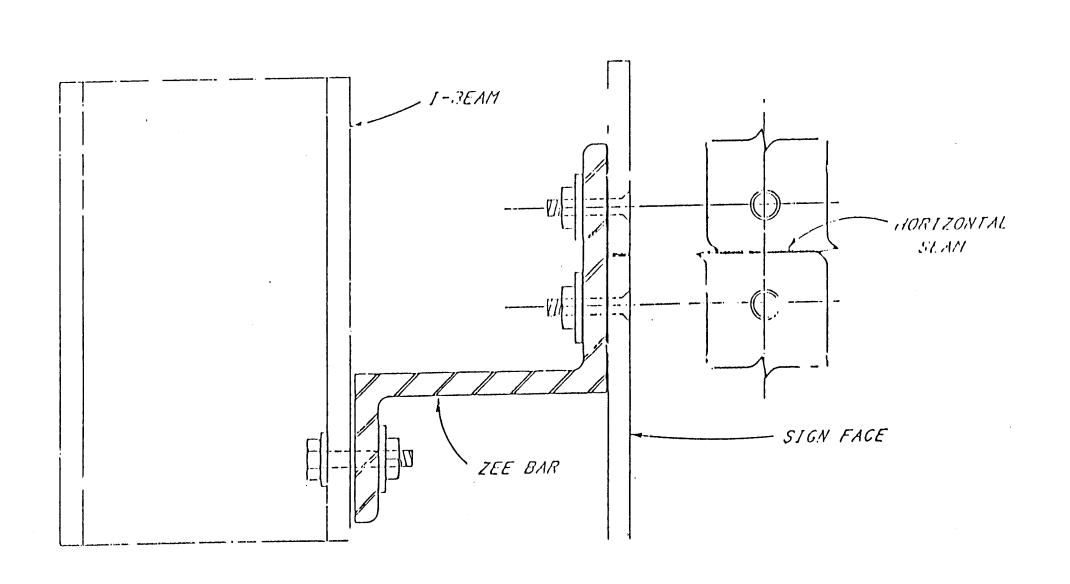




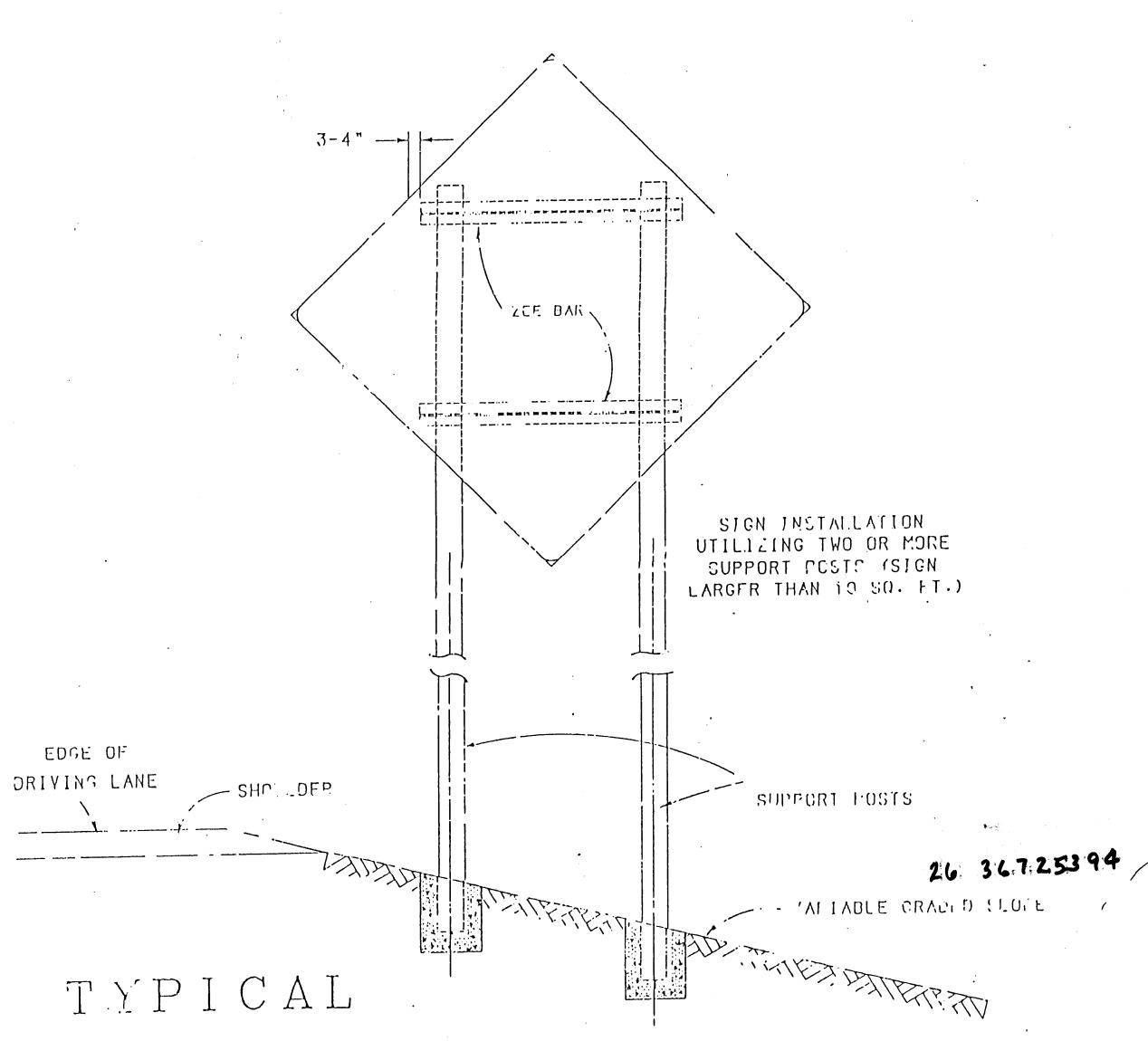


MCUNTING DETAIL

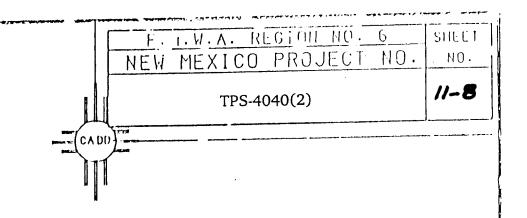
1. CK SERTAL / SK-75-232



TYPICAL HORIZONTAL SEAM CLOSURE



ZZE BACKING FOR LIAVOND SHAPL SIGN



GENERAL NOTES

- 1. BACKING ZEE SHALL BE ALUMINUM ALLOY 6061-T6. FACH ZEE SHALL BE PROVIDED WITH A 9/16" x 2" HORIZONTAL SLOT FOR EACH POST MOUNTING BOLT.
- 2. BACKING ZEE SHAL! BE FASTENED TO THE SIGN BLANK WITH 1/4" 20 x 3/4" FLAT HEAD COUNTER SUNK MACHINE SCREWS WITH NUT AND LOCK WASHER (CADMIUM ON GALVANIZED OR 2024-T4 ALMUMINUM ALLOY FASTENERS AT 9" 1- 1/2" INTERVALS.
- FASTENED TO THE SIGN FACES SHALL BE FASTENED TO THE SIGN SUPPORT POST WITH 3/8" HEA, HEAD DOLT, NUT & TWO WASHERS GALVANIZED OR CADMIUM PLATED.
- 4. BYOKING TO 13 NOT NEFDED WHERE SIGN IS TO BE MOUNTED ON ONE POST AND 13 APPROXIMATELY TEN SQUARE FEET OR LEGS
- 5. ALTERNATE BACKING MAY BE 1-1/2" PER-FORATED SQUARE TUBING AND ASSOCIATED HARDWARE, DESCRIBED IN SERIAL SN-75
- 6. SIGN PANELS SHALL BF SINGLE SHEET GU61 -T6 ALUMINUM 120 MINIMUM THICKNESS.
- 7. BACKING ZEES SHALL BE 3"x2-3/4"x1/4" A: 2.33 LBS. PER FT. FOR 606;-T6 ALUMINUM.
- 8. EXPOSED BOLT HEADS ON THE FACE OF THE SIGN SHALL BE PAINTED OF REFLECTORIZED TO MATCH THE SURROUNDING COLOR.



2								====
1		DESCRI	PIION	<u></u>		A DECEMBER	DATE	ВУ
NO.	REV	ISTONS	THE R. P. LEWIS CO., LANSING, MICH.	HOL N	1011CF.	5)		ib actorics
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SHEET 2 OF 2

SHEET 11-8

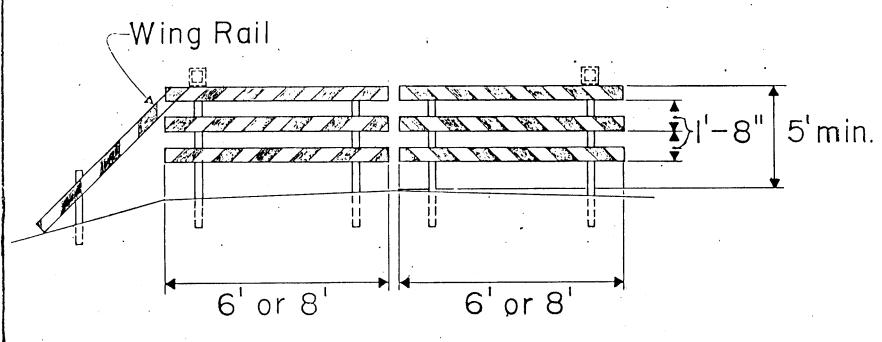
NEW MEXICO PROJECT NO. TPS-4040(2)

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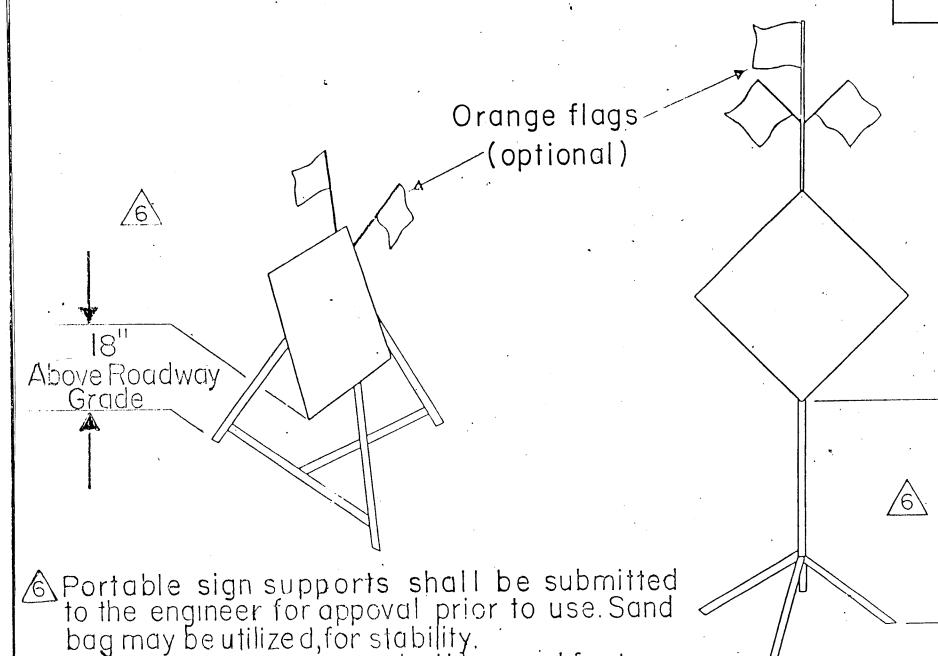
Stands may be detachable for portability. Type "I" Barricades have two (2) reflectorized rail faces (one in each direction). The stand materials may be metal, wood or other suitable light weight materials of structural soundness.

TYPICAL TYPE "I" BARRICADE



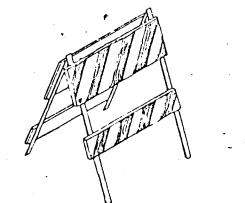
Type "III" Barricades have 3 reflectorized rail faces when facing traffic in one direction; 6 if facing traffic in two directions. Wing Rail may be fitted to the back of the top rail attached by two $\frac{5}{16}$ " bolts, nuts, and washers.

TYPICAL FIXED TYPE "III" BARRICADE



Portable sign supports shall be used for temporary or moving construction operation only.

PORTABLE SIGN SUPPORT (TYPICAL)



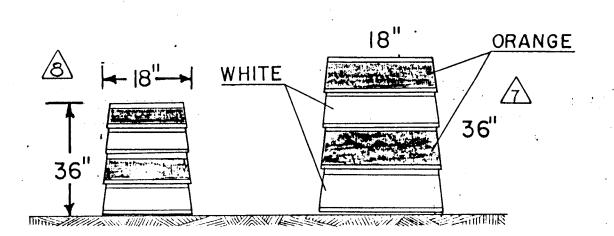
Type "II" Barricades have four (4) reflectorized rail faces (two in each direction). Folding stands shall be of materials similar to Type "I" Barricade stands.

TYPICAL

TYPE "II" BARRICADE

BARRICADES - CHARACTERISTICS

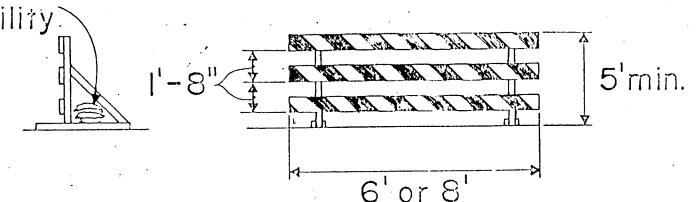
,	I .	* <u>II</u>	
WIDTH OF RAIL	8"min12"max.	8"min12"max.	8"min12"max.
LENGTH OF RAIL	6' to 8',	3'min4'max.	6' or 8'
WIDTH OF STRIPES	6 ins.	6 ins.	6 ins.
HEIGHT	3 ft. min.	3 ft. min.	5ft. min.
TYPE OF FRAME	Demountable or heavy "A" frame	Light "A" frame	Posts or skids
FLEXIBILITY	Essentially movable	Portable	Essentially permanent



With two (2) orange stripes minimum 18"Min. and alternating white stripes, all Above Roadway reflective tape or sheeting.

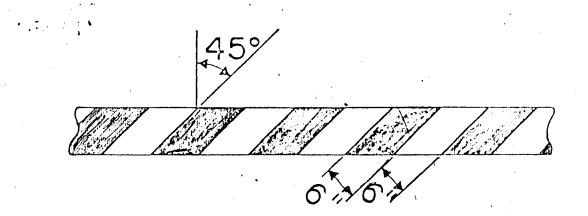
CHANNELIZATION DEVICES (BARRELS)

Sand bags for added stability



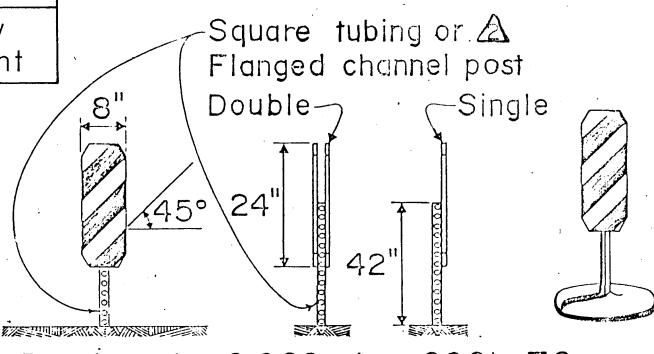
Type "III" Barricade framing and supports shall be 2"x2" min.—12Ga., square metal tubing or drivedown posts.

TYPICAL MOVABLE TYPE "III" BARRICADE



Rail shall be 1/2" min. 5 ply sign grade plywood or 2" x 8" S4S quality wood. On Types "I" and "II", metal rails, if used, must be light weight material, commensurate with structural soundness. Stripes shall slant downward at 45° toward the side which traffic is to pass.

DETAIL OF BARRICADE RAIL STRIPING



Panels to be 0.060 min., 6061-T6,

or 5052-H38 aluminum alloy

mounted on 1/2" min. square steel tubing post or 1.33 lb/ii min. flanged channel post. Stripes shall slant downward at 45° toward the side which traffic is to pass. For temporary installation the post may be set to 3 ft. below ground or the panels may be mounted on stanchions.

CHANNELIZATION DEVICES

(VERTICAL PANELS)

SHEET TOTAL
NO SHEETS
TPS-4040(2)
11-9

GENERAL NOTES

- I. All signs, sign materials, beacons, and barricade warning lights shall conform to the standards set forth in the M.U.T.C.D. 1978 edition.
- 2. The entire area of orange and white stripes shall be reflectorized on all barricades, barrels, vertical panels or other channelization devices when used on construction, detours, or participating connections, by use of reflective sheeting or tape.
- 3. Red and white barricades may be used to mark the end of a road, street, or highway where there is no crossroad or outlet at locations considered permanent and sentence permanent closures or termination of roadways.
- 4. Flashing beacons or steady burn lights, when used on barricades, shall be positioned above the top rail of the barricade, facing traffic.
- 5. High intensity flashing beacons shall be used to mark obstructions or hazards. Type "C" steady burn light may be used for delineation 'at night.

6. All-barricade framing and supports, other than galvanized metal, shall be painted white.

THIS SERIAL REVISED: 9-20-88

A REVISED PORT. SIGN SUPPORT DETAILS 3/15/80 T.G.M.

REVISED PORT. SIGN SUPPORT DETAILS 1/31/80 T.G.M.

REVISED NOTE NO. I 9/24/79 T.G.M.

ADDED 5052 - H 38 ALUMINUM ALLOY 5-9-78 T.G.M.

ADDED FLANGED CHANNEL POST 5-4-78 T.G.M.

REVISED BARREL DIMENSIONS 9-20-88

CHANGED No. of STRIPES ON BARKELS 3-4-88 E.R.

REVISIONS (OR CHANGE NOTICES)

STATE HIGHWAY DEPARTMENT

BARRICADES AND

CHANNELIZATION DEVICES

DESIGNED BY J.G. APPROVAL G. FORMIN DELL 10-7

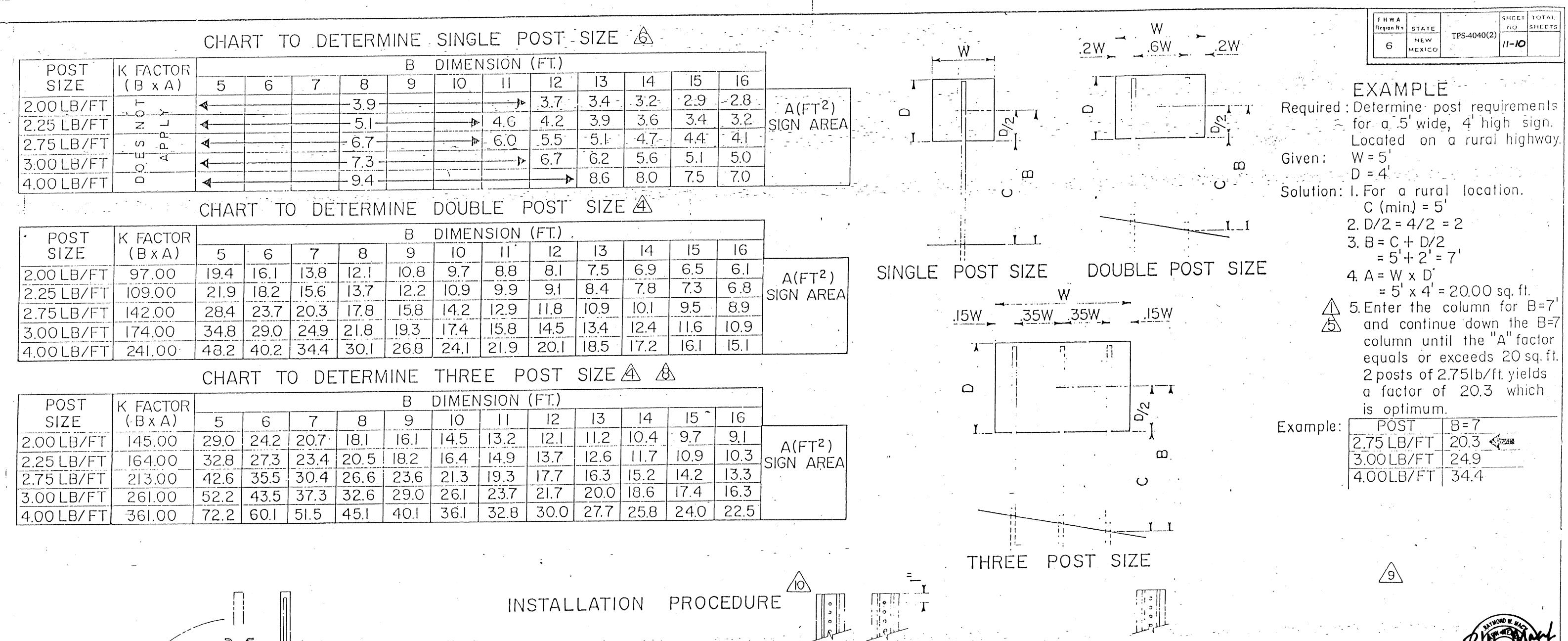
RECOMMENDED TRAFFIC ENGINEER DA

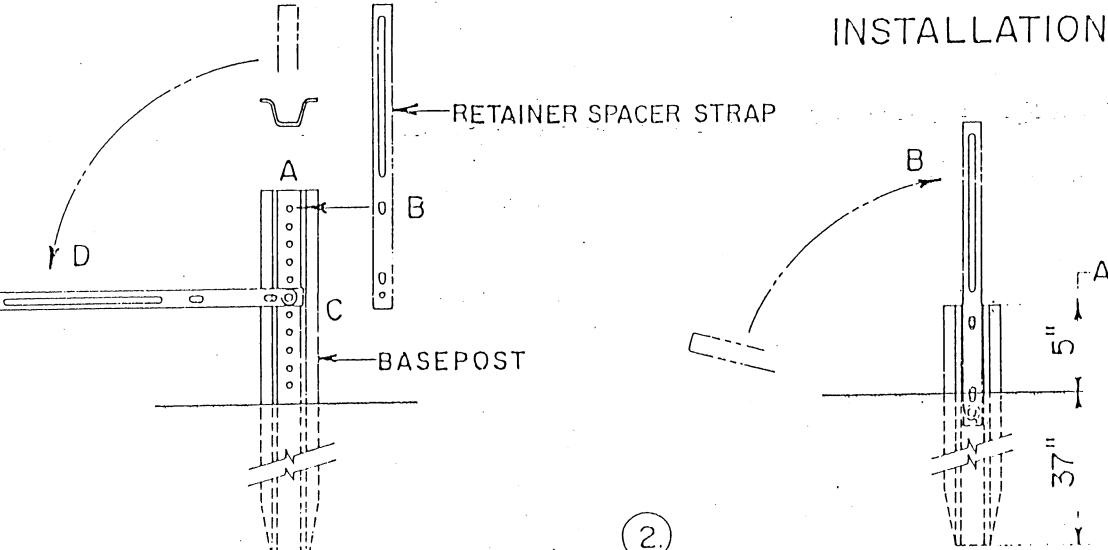
CHECKED BY J.G. APPROVED GOY CONCLUDED DAT

SERIAL Sn 77-9 SHEET 9 OF

W MEXICO PROJECT NO. TPS-4040(2)

HEET 11-9

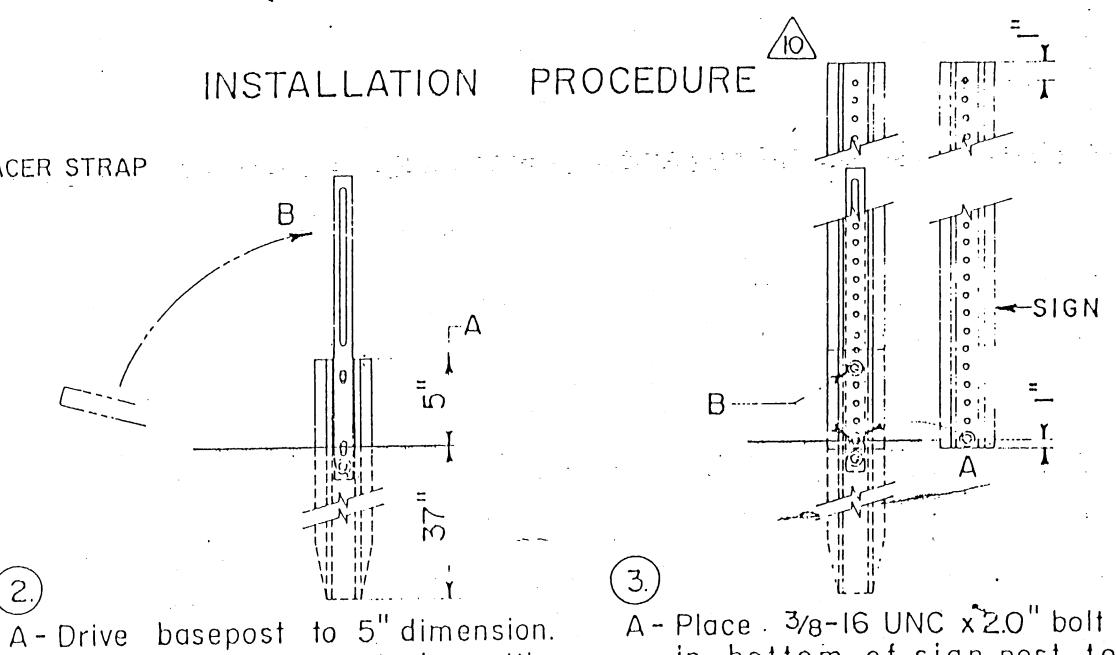




A-Drive basepost to within 12" of ground level.
B-Proper assembly established by lining up
top 3/4" slot of retainer spacer strap with
top hole of basepost.

C-Assemble strap to basepost.

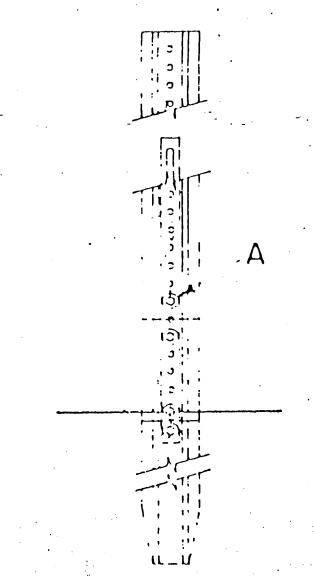
D-Rotate strap 90° to left.



B-Rotate strap to vertical position.

A-Place 3/8-16 UNC x 2.0" bolt in bottom of sign post to facilitate alignment of sign post with proper hole in base post. (This coincides with bottom 3/4" slot in strap).

B-Alternately lighten two connector bolts.



A-Complete assembly by tightening retainer bolt. (This fastens sign post to retainer spacer strap).

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.(0\	REVISED INSTALLATION PROCEDURE	5-30-82	16.11
\$	DELETED NOTE Nº I	5 - 30-82	F 3.13
ℯ	REVISED THREE POST CHART	12-1-80	TGM.
Æ.	REVISED NOTE I	5-17-79	T.G.M.
6	REVISED SINGLE POST CHART	2-13-78	TGM
5	REVISED EXAMPLE	2-13-78	T.G.M
4	REVISED DOUBLE AND THREE POST CHART	2 - 9 - 78	J.G.
ĩ	REVISED NOTE 1, DELETED NOTE 2	2-9-78	T.G.M
. 2	ACDED NOTES I AND 2	1/25/79	J G.
	REVISED CHARTS TO DETERMINE POST SIZE	1/19/78	J.G.
WENT NO	DESCRIPTION	DATE	BY
	REVISIONS OF CHATGE NOTICES		

NEW MEXICO STATE HIGHWAY DEPARTMENT

DESIGN LOADS FOR BREAKAWAY FLANGED CHANNEL POSTS

DESIGNED BY GPB	RECOMMENDED TRAFFIC ENGINEER DATE
DRAWN BY IPH	
CHECKED BY GPB	APPROVED SEY LOS DATE

W MEXICO PROJECT NO. TPS-4040(2)

SHEET 11-10

