2 3 4 5 6 7 8 9 10 11 12 13 14 15

24-69211.81-2011

SCANNED BY PLANNING

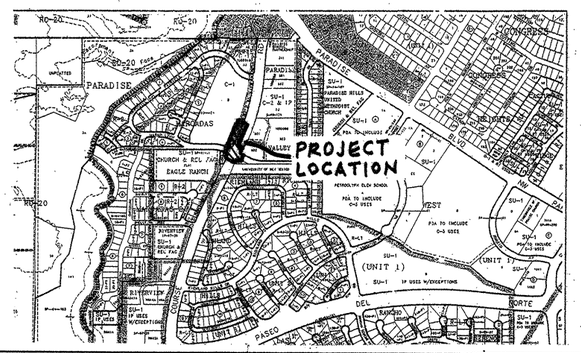
PLANS FOR CONSTRUCTION OF

ROBERTS OIL
DECELERATION LANE & SIGNALIZATION IMPROVEMENTS

ALBUQUERQUE, NEW MEXICO

AUGUST, 2002

INDEX TO DRAWINGS



C-12 SCALE: NTS

GENERAL NOTES:

1. CITY OF ALBUQUERQUE SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1986 EDITION AS AMENDED THROUGH UPDATE 6, WILL BE REFERRED TO HEREIN AS THE "STANDARD SPECIFICATIONS." ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED UNDER CONTRACT SHALL, EXCEPT AS OTHERWISE STATED OR PROVIDED FOR HEREON BE CONSTRUCTED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS

2. THREE WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM (260-1990) AND DETERMINE LOCATION OF EXISTING UTILITIES.

3. PRIOR TO ANY CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OR THE SURVEYOR SO THAT THE CONFLICT CAN BE RESOLVED WITHOUT DELAY.

4. ALL EXISTING SIGNS, MARKERS, DELINEATORS, ETC., WITHIN THE CONSTRUCTION LIMITS SHALL BE REMOVED, STORED AND RE-SET BY THE CONTRACTOR.

5. THE CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) WORKING DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO INSURE THE PRESERVATION OF SURVEY MONUMENTS. THE CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE CITY SURVEYOR. WHEN A CHANGE IS MADE IN THE FINISHED ELEVATIONS OF THE PAVEMENT OF ANY ROADWAY IN WHICH A PERMANENT SURVEY MARKER IS LOCATED, CONTRACTOR SHALL, AT HIS OWN EXPENSE, ADJUST THE MONUMENT COVER TO THE NEW GRADE UNLESS OTHERWISE SPECIFIED. REFER TO SECTION 4.4 OF THE GENERAL CONDITIONS OF THE STANDARD SPECIFICATIONS.

6. FIVE (5) 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. REFER TO SECTION 19 OF THE STANDARD SPECIFICATIONS.

7. ANY WORK OCCURRING WITHIN AN ARTERIAL ROADWAY REQUIRES 24 HOUR CONSTRUCTION.

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

9. ALL STREET STRIPING ALTERED OR DESTROYED SHALL BE REPLACED BY THE CONTRACTOR WITH HOT THERMOPLASTIC REFLECTORIZED PAVEMENT MARKING. ALL NEW STRIPING SHALL BE HOT THERMOPLASTIC REFLECTORIZED PAVEMENT MARKING.

10. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR ANY DAMAGE TO EXISTING PAVEMENTS, PAVEMENT MARKINGS, CURB AND GUTTER, DRIVEPADS, WHEELCHAIR RAMPS AND SIDEWALKS DURING CONSTRUCTION, APART FROM THOSE SECTIONS INDICATED FOR REMOVAL ON THE PLANS AND SHALL REPAIR OR REPLACE PER THE STANDARD SPECIFICATIONS AT HIS OWN EXPENSE.

11. EXISTING UTILITY LINES AND PIPELINES SHOWN ON THESE DRAWINGS ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. UTILITIES MAY EXIST WHERE NONE ARE SHOWN. THE ENGINEER HAS UNDERTAKEN NO FIELD VERIFICATION OF THE LOCATION, DEPTH, SIZE OR TYPE OF EXISTING UTILITY LINES AND PIPELINES. THE CONTRACTOR IS FULLY RESPONSIBLE FOR DAMAGE CAUSED BY FAILURE TO LOCATE AND PRESERVE EXISTING UTILITY LINES AND PIPELINES.

12. THE CONTRACTOR SHALL SECURE A "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.

13. THE CONTRACTOR SHALL ASSIST THE ENGINEER/INSPECTOR IN THE RECORDING OF DATA ON ALL UTILITY LINES AND ACCESSORIES AS REQUIRED BY THE OWNERS FOR THE PREPARATION OF "RECORD DRAWINGS." THE CONTRACTOR SHALL NOT COVER UTILITY LINES AND ACCESSORIES UNTIL ALL DATA HAS BEEN RECORDED.

14. ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY OR EASEMENTS MUST BE DONE FROM APPROVED WORK ORDER DOCUMENTS FROM THE CITY AND PREPARED BY BRASHER AND LORENZ, INC.

15. THE CONTRACTOR SHALL DETERMINE IN ADVANCE OF HIS CONSTRUCTION IF OVERHEAD UTILITY LINES, SUPPORT STRUCTURES, POLES, GUYS, ETC. ARE AN OBSTRUCTION TO CONSTRUCTION OPERATIONS. IF ANY OBSTRUCTION TO CONSTRUCTION OPERATIONS IS EVIDENT, THE CONTRACTOR SHALL BE-RESPONSIBLE FOR COORDINATING WITH THE APPROPRIATE UTILITY OWNER TO REMOVE OR SUPPORT THE UTILITY OBSTRUCTION. ANY COST ASSOCIATED WITH THIS EFFORT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.

16. THE CONTRACTOR IS TO SUPPORT AND MAINTAIN THE INTEGRITY OF ALL UNDERGROUND TELEPHONE, ELECTRIC CABLES AND CABLE TELEVISION UTILITIES AT NO ADDITIONAL COST THE OWNER. CABLE IS TO BE SUPPORTED EVERY 15 FEET (MINIMUM). CONTRACTOR SHALL COORDINATE WITH AND MAKE NECESSARY PAYMENT (IF ANY) TO UTILITY OWNER FOR DE-ENERGIZATION OF CABLES OR SUPPORT OF CABLES BY THE UTILITY OWNER.

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

ENGINEER'S STAMP & SIGNATURE

DENNIS A. LORENZ NEW MEXICO 9643 REGISTERED PROFESSIONAL ENGINEER 8-8-02

APPROVALS	ENGINEER	DATE
DRC Chair		8-27-02
Transportation		8/23/02
Water/Wastewater		8/23/02
Hydrology		8-23-02
CIP		
Constr. Mgmt.		
Constr. Coord.		8-27-02

APPROVED FOR CONSTRUCTION

City Engineer 11/22/02 Date

City Project No. 692181

Zone Map No. C-12

Sheet 1 of 8

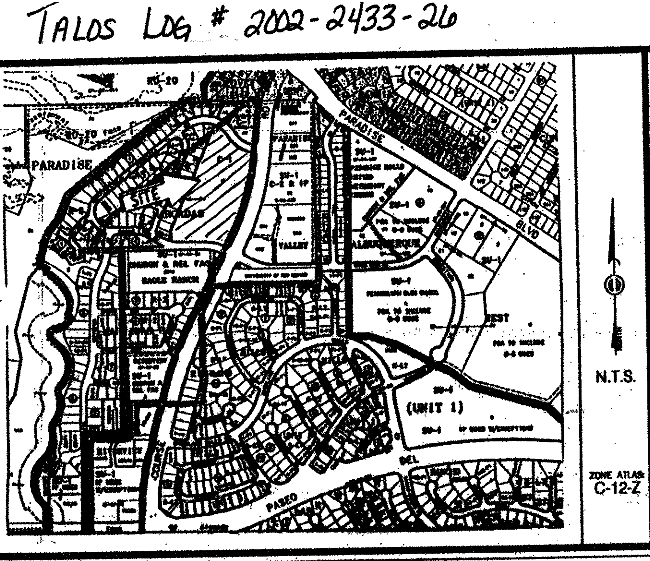
DRB PROJECT No. 1002050

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro Blvd. NE Bldg. 1, Suite 1200
Albuquerque, New Mexico 87110
Phone: (505) 888-6088 Fax: (505) 888-6188

C:\LAND PROJECT 2\02524-ROBERTS OIL\02524-COVER.DWG

TALOS LOG # 2002-2433-26

PLAT OF
TRACTS B-1 & B-2
LAS MARCADAS SUBDIVISION
TOWN OF ALAMEDA GRANT
PROJECTED SECTION 13, T. 11 N., R. 2 E., N.M.P.M.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE 2002
SHEET 1 OF 2



Vicinity Map

SUBDIVISION DATA / NOTES

1. PLAT WAS COMPILED USING EXISTING RECORD DATA & ACTUAL FIELD SURVEY.
2. BEARINGS ARE NEW MEXICO STATE PLANE GRID BEARINGS, CENTRAL ZONE, NAD 1927, AND ARE BASED ON ACS CONTROL MONUMENTS 2-C11 AND 3-B12, AS SHOWN HEREON.
3. DISTANCES ARE GROUND DISTANCES.
4. PLAT SHOWS ALL EASEMENTS OF RECORD.
5. BEARINGS AND DISTANCES IN PARENTHESES ( ) ARE PER THE PLAT OF LAS MARCADAS SUBDIVISION, FILED IN BERNALILLO COUNTY, NEW MEXICO ON MARCH 8, 1994 IN VOLUME 94C, FOLIO 72.
6. GROSS AREA: 8.1900 ACRES
7. NUMBER OF EXISTING TRACTS: 1
8. NUMBER OF TRACTS CREATED: 2
9. PROPERTY IS ZONED CITY C-1.
10. These properties are within the New Mexico Utilities, Inc. (NMU, Inc.) Service area. Water and Sanitary Sewer Systems capability are based on NMU, Inc. Facilities, not the City of Albuquerque.

SCANNED BY PLANNING

THIS IS TO CERTIFY THAT TAXES ARE CURRENT & PAID ON
UPC#:
PROPERTY OWNER OF RECORD:
BERNALILLO COUNTY TREASURER'S OFFICE:

LEGAL DESCRIPTION

TRACT "B" OF THE PLAT OF LAS MARCADAS SUBDIVISION, AS THE SAME IS SHOWN AND DESIGNATED ON THE PLAT THEREOF, FILED IN THE OFFICE OF THE COUNTY CLERK OF BERNALILLO COUNTY, NEW MEXICO ON MARCH 8, 1994 IN VOLUME 94C, FOLIO 72.

FREE CONSENT

THE UNDERSIGNED OWNER(S) AND PROPRIETOR(S) OF THE PROPERTY DESCRIBED HEREON DO HEREBY CONSENT TO THE PLATTING OF SAID PROPERTY AS SHOWN HEREON AND THE SAME IS WITH THE FREE CONSENT AND IN ACCORDANCE WITH THEIR DESIRES AND DO HEREBY REPRESENT THAT THE UNDERSIGNED INDIVIDUALS ARE AUTHORIZED TO SO ACTAND DO HEREBY DEDICATE ADDITIONAL PUBLIC STREET RIGHT-OF-WAY TO THE CITY OF ALBUQUERQUE IN FEE SIMPLE WITH WARRANTY COVENANTS.

OWNER(S) SIGNATURE: Michael Laflin MD DATE: 6/19/02
OWNER(S) PRINT NAME: Golf Course Road, LLC, Michael Laflin M.D., Manager
ADDRESS: 133 Calabria Street Aptos, CA 95003 TRACT: Tract B
ACKNOWLEDGMENT
STATE OF California)
).SS
COUNTY OF Santa Cruz)
THIS INSTRUMENT WAS ACKNOWLEDGED BEFORE ME THIS 19 DAY OF June, 2002.
BY: Michael Laflin
MY COMMISSION EXPIRES: Jan 29, 2006
Erin A. Stephens
NOTARY PUBLIC

ERIN A. STEPHENS
Commission # 1341878
Notary Public - California
Santa Cruz County
My Comm. Expires Jan 29, 2006

PUBLIC UTILITY EASEMENTS

PUBLIC UTILITY EASEMENTS SHOWN ON THIS PLAT ARE GRANTED FOR THE COMMON AND JOINT USE OF:

1. THE PUBLIC SERVICE COMPANY OF NEW MEXICO ELECTRIC SERVICES FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF OVERHEAD AND UNDERGROUND ELECTRICAL LINES, TRANSFORMERS, POLES AND ANY OTHER EQUIPMENT, FIXTURES, STRUCTURES AND RELATED FACILITIES REASONABLY NECESSARY TO PROVIDE ELECTRICAL SERVICE.

2. THE PUBLIC SERVICE COMPANY OF NEW MEXICO GAS SERVICES FOR INSTALLATION, MAINTENANCE, AND SERVICE OF NATURAL GAS LINES, VALVES AND OTHER EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE NATURAL GAS SERVICES.

3. QWEST FOR THE INSTALLATION, MAINTENANCE AND SERVICE OF ALL BURIED AND AERIAL COMMUNICATION LINES, AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE COMMUNICATION SERVICES, INCLUDING BUT NOT LIMITED TO ABOVE GROUND PEDESTALS AND CLOSURES.

4. COMCAST CABLE FOR THE INSTALLATION, MAINTENANCE, AND SERVICE OF SUCH LINES, CABLE AND OTHER RELATED EQUIPMENT AND FACILITIES REASONABLY NECESSARY TO PROVIDE CABLE TV SERVICE.

INCLUDED, IS THE RIGHT TO BUILD, REBUILD, CONSTRUCT, RECONSTRUCT, LOCATE, RELOCATE, CHANGE, REMOVE, MODIFY, RENEW, OPERATE, AND MAINTAIN FACILITIES FOR THE PURPOSES DESCIBED ABOVE, TOGETHER WITH FREE ACCESS TO, FROM AND OVER SAID EASEMENTS, INCLUDING SUFFICIENT WORKING AREA SPACE FOR ELECTRIC TRANSFORMERS, WITH RIGHT AND PRIVILEGE TO TRIM AND REMOVE TREES, SHRUBS OR BUSHES WHICH INTERFERE WITH THE PURPOSES SET FORTH HEREIN. NO BUILDNG, SIGN, POOL (ABOVEGROUND OR SURFACE), HOT TUB, CONCRETE OR WOOD POOL DECKING, OR OTHER STUCTURES SHALL NOT BE ERECTED OR CONSTRUCTED ON SAID EASEMENTS NOR SHALL ANY WELL BE DRILLED OR OPERATED THEREON. PROPERTY OWNERS SHALL BE SOLELY RESPONSIBLE FOR CORRECTING ANY VIOLATIONS OF NATIONAL ELECTRICAL SAFETY CODE CAUSED BY CONSTRUCTION OF POOLS, DECKING OR ANY STUCTURES ADJACENT TO, WITHIN OR NEAR EASMENTS SHOWN ON THIS PLAT.

IN APPROVING THIS PLAT, P.N.M. ELECTRIC SERVICES AND GAS SERVICES (PNM) DID NOT CONDUCT A TITLE SEARCH OF THE PROPERTIES SHOWN HEREON. CONSEQUENTLY, PNM DOES NOT WAIVE NOR RELEASE ANY EASEMENT OR EASEMENT RIGHTS TO WHICH IT MAY BE ENTITLED.

EASEMENTS FOR ELECTRIC TRANSFORMERS/SWITCHGEARS, AS INSTALLED, SHALL EXTEND TEN FEET (10') IN FRONT OF TRANSFORMER/SWITHGEAR DOORS AND FIVE FEET (5') ON EACH SIDE.

New Mexico Utilities, Inc. for the installation, maintenance and service of underground water and sanitary sewer lines across the easement (But not parallel within).

PROJECT NO. 0206PB01
DRAWN BY PGB
ZONE ATLAS: C-12-Z
MARCADAS.CR5

DISCLOSURE STATEMENT

THE PURPOSE OF THIS PLAT IS TO DIVIDE ONE (1) EXISTING TRACT INTO TWO (2) NEW TRACTS OF LAND, TO VACATE EXISTING TEMPORARY DRAINAGE EASEMENTS AND TO DEDICATE ADDITIONAL PUBLIC STREET RIGHT-OF-WAY AS SHOWN.

APPLICATION NO. & PROJECT NO.: 02 DRB-01049 / 1002050
02 DRB-00960
02 DRB-00961

CITY APPROVALS:

For [illegible] CITY SURVEYOR	6-21-02 DATE
TRAFFIC ENGINEERING	DATE
PARKS RECREATION	DATE
UTILITY DEVELOPMENT DIVISION	DATE
N/A REAL PROPERTY DIVISION	DATE
A.M.A.F.C.A.	DATE
CITY ENGINEER	DATE
CITY PLANNER, ALBUQUERQUE PLANNING DIVISION	DATE

UTILITY APPROVALS

[illegible] P.N.M. GAS SERVICES/P.N.M. ELECTRIC SERVICES	6-24-02 DATE
[illegible] QWEST COMMUNICATIONS	6-21-02 DATE
Rita Eric[illegible] COMCAST CABLE	6/21/02 DATE
[illegible] NEW MEXICO UTILITIES	8-1-02 DATE

SURVEYOR'S CERTIFICATION

I, Gary E. Gritsko, a duly qualified Registered Professional Land Surveyor under the laws of the State of New Mexico, do hereby certify that this plat and description were prepared by me or under my supervision, shows all easements as shown on the plat of record or made known to me by the owners and/or proprietors of the subdivision shown hereon, utility companies and other parties expressing an interest and meets the minimum requirements for monumentation and surveys of the Albuquerque Subdivision Ordinance, and further meets the Minimum Standards for Land Surveying in the State of New Mexico and is true and correct to the best of my knowledge and belief.

Gary E. Gritsko June 20, 2002
Gary E. Gritsko Date
New Mexico Professional Surveyor, 8686

GARY E. GRITSKO
NEW MEXICO
8686
REGISTERED PROFESSIONAL LAND SURVEYOR

SURVEYS SOUTHWEST LTD.
333 LOMAS BLVD., N.E.
ALBUQUERQUE, NEW MEXICO
87102
PHONE: (505) 998-0303
FAX: (505) 998-0306

T11N R2E SEC. 13

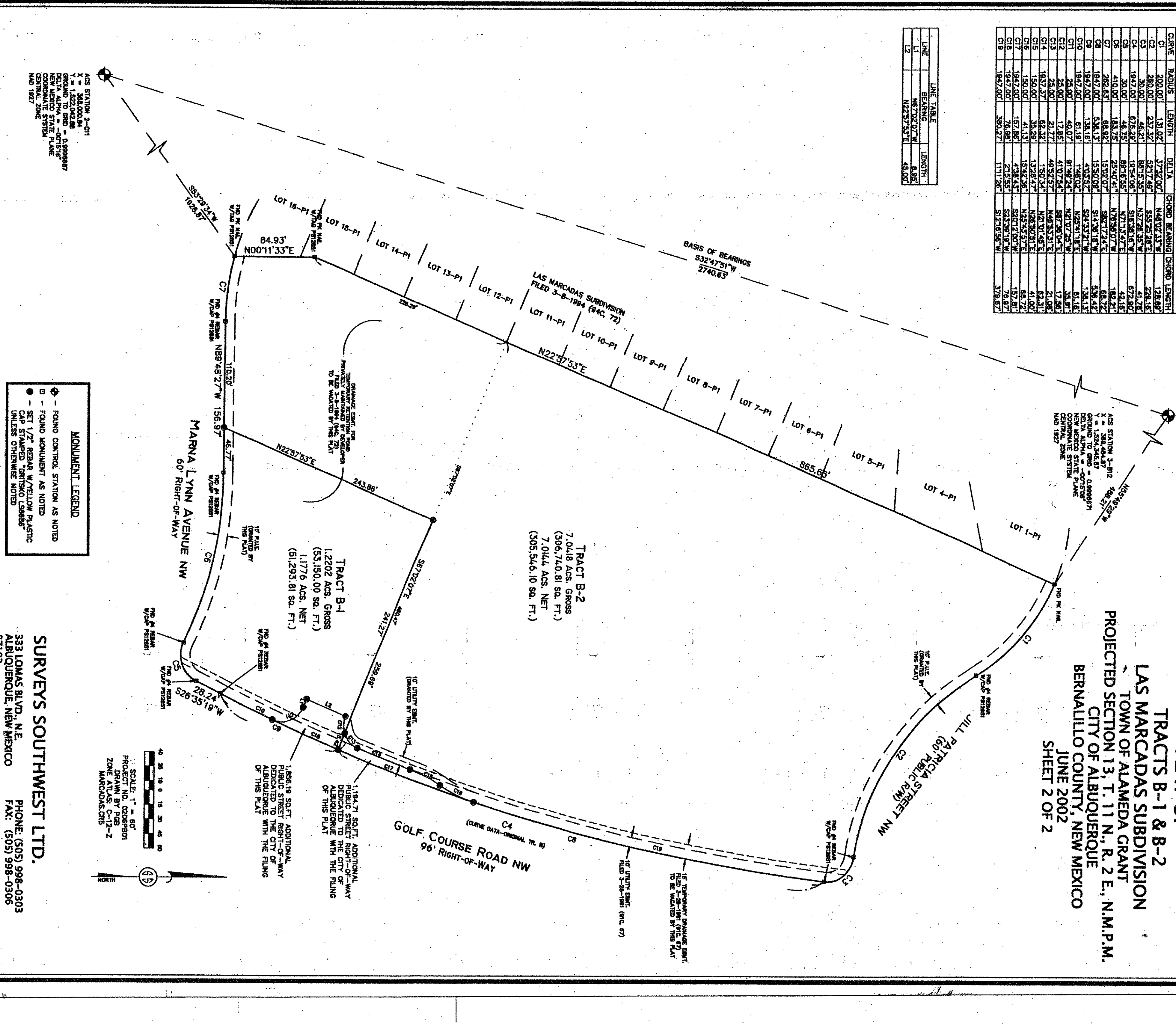
PLAT OF
TRACTS B-1 & B-2
LAS MARCADAS SUBDIVISION
TOWN OF ALAMEDA GRANT
PROJECTED SECTION 13, T. 11 N., R. 2 E., N.M.P.M.
CITY OF ALBUQUERQUE
BERNALILLO COUNTY, NEW MEXICO
JUNE 2002
SHEET 2 OF 2

CURVE TABLE

CURVE	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	200.00'	131.02'	37°32'00"	N48°02'33"W	128.69'
C2	280.00'	237.32'	52°17'49"	S55°25'28"E	229.16'
C3	30.00'	46.21'	88°15'35"	N37°26'35"W	41.78'
C4	1947.00'	676.29'	19°54'06"	S16°38'16"W	672.90'
C5	30.00'	46.75'	89°16'55"	N71°13'47"E	42.16'
C6	410.00'	183.75'	25°40'41"	N76°58'07"W	182.21'
C7	262.63'	68.92'	15°02'07"	S82°17'24"E	68.72'
C8	1947.00'	538.13'	15°50'09"	S14°36'18"W	536.42'
C9	1947.00'	138.16'	4°03'57"	S24°33'21"W	138.13'
C10	1947.00'	61.19'	1°48'02"	N25°41'18"E	61.18'
C11	25.00'	40.07'	91°49'24"	N21°07'25"W	35.91'
C12	25.00'	17.85'	41°07'54"	S87°36'04"E	17.56'
C13	25.00'	21.77'	49°52'57"	N46°53'31"E	21.08'
C14	1937.37'	62.32'	1°50'34"	N21°01'45"E	62.31'
C15	150.00'	35.29'	13°28'47"	N28°50'51"E	41.00'
C16	150.00'	41.13'	15°42'36"	N25°43'57"E	68.72'
C17	1947.00'	157.86'	4°38'43"	S20°12'00"W	157.81'
C18	1947.00'	76.98'	2°15'55"	S23°39'19"W	76.97'
C19	1947.00'	380.27'	11°11'26"	S12°16'56"W	379.67'

LINE TABLE

LINE	BEARING	LENGTH
L1	N67°02'07"W	8.95'
L2	N22°57'53"E	45.00'



MONUMENT LEGEND

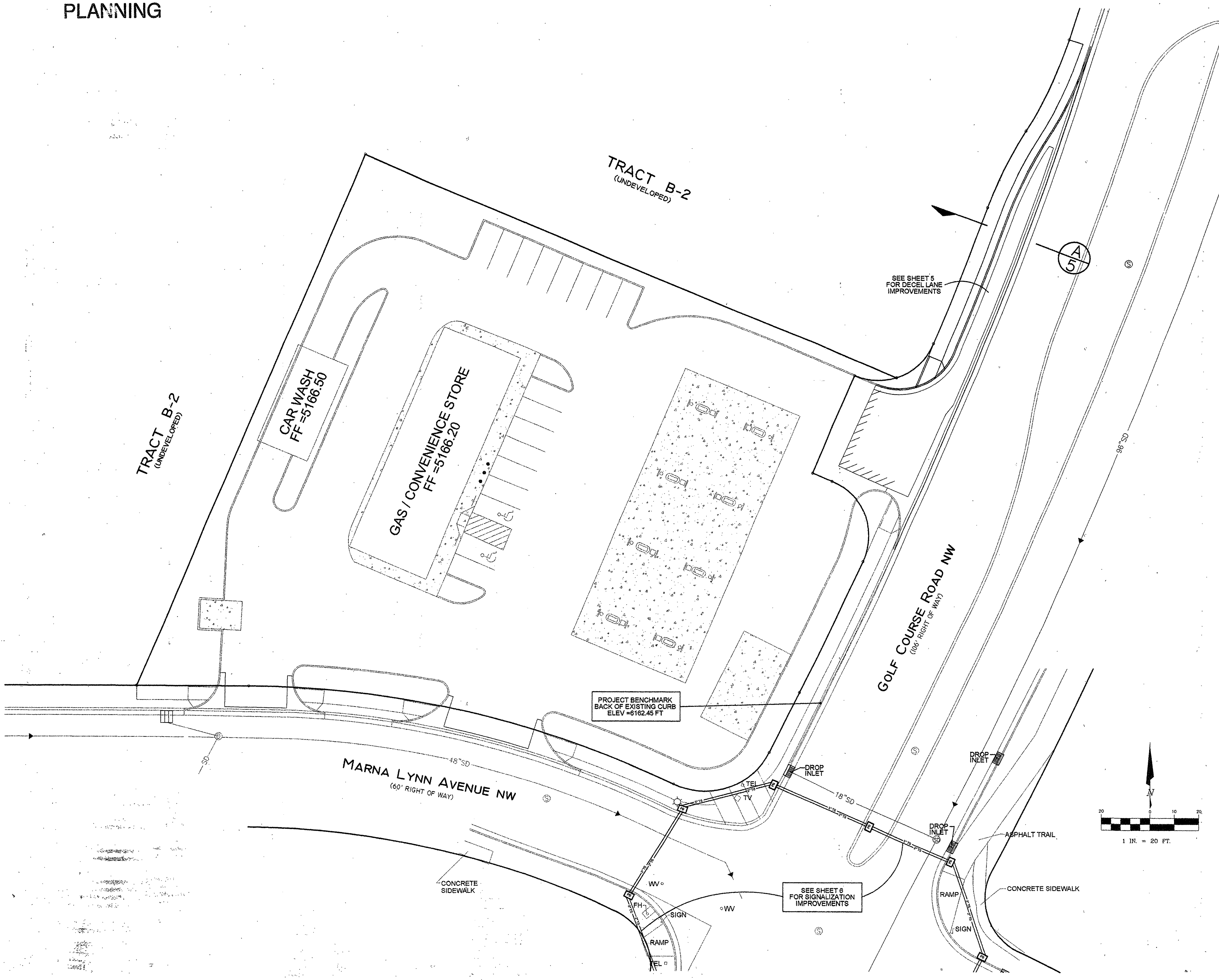
- FOUND CONTROL STATION AS NOTED
- FOUND MONUMENT AS NOTED
- SET 1/2" REBAR W/YELLOW PLASTIC CAP STAMPED "GRITSKO LS8686" UNLESS OTHERWISE NOTED

SCALE: 1" = 60'
PROJECT NO. 0206PB01
DRAWN BY PGB
ZONE ATLAS: C-12-Z
MARCADAS.CR5

SURVEYS SOUTHWEST LTD.
333 LOMAS BLVD., N.E.
ALBUQUERQUE, NEW MEXICO
87102
PHONE: (505) 998-0303
FAX: (505) 998-0306

T11N R2E SEC. 13

692181



LEGEND

ITEM	EXISTING	PROPOSED
WATERLINE	6" W	6" W
SANITARY SEWER	8" SAS	8" SAS
STORM SEWER	36" STS	36" STS
FIRE HYDRANT		
VALVE		
METERED WATER SERVICE		
MANHOLE		●
CURB AND GUTTER		
HEADER CURB		
DROP INLET		
OVERHEAD ELEC WITH POWER POLE	OHE	OHE
UNDERGROUND ELEC, GAS, TEL, TV	UGT	UGT
CURB ELEVATIONS	TOP CONC. ELEV. FLOWLINE ELEV	TOP CONC. ELEV. FLOWLINE ELEV
SPOT ELEV.	× 16.7	16.7
SEWER SERVICE		
RIGHT OF WAY		
EASEMENT		
POWER POLE (GUYED)	PP	PP
CENTERLINE		
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2

AS-BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

DATE

BENCHMARKS

PROJECT BENCHMARK IS A PAINTED BOX ☒
AT THE EXISTING BACK OF CURB LOCATED ON
GOLF COURSE ROAD NE APPROXIMATELY 38 FEET
NORTH OF THE NNW CURB RETURN AT MARNA LYNN
AVENUE NW.
ELEVATION =6162.45 FEET NGVD 1929

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DENNIS A. LORENZ
NEW MEXICO
9647
REGISTERED PROFESSIONAL ENGINEER
8-8-02

REVISIONS

NO.	DATE	REMARKS	BY

DESIGN

DESIGNED BY	D.A.L.	DATE 8 - 2002
DRAWN BY	R.M.	DATE 8 - 2002
CHECKED BY	D.A.L.	DATE 8 - 2002

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro Blvd. NE Bldg. 1, Suite 1200
Albuquerque, New Mexico 87110
Phone: (505) 888-6088 Fax: (505) 888-6188

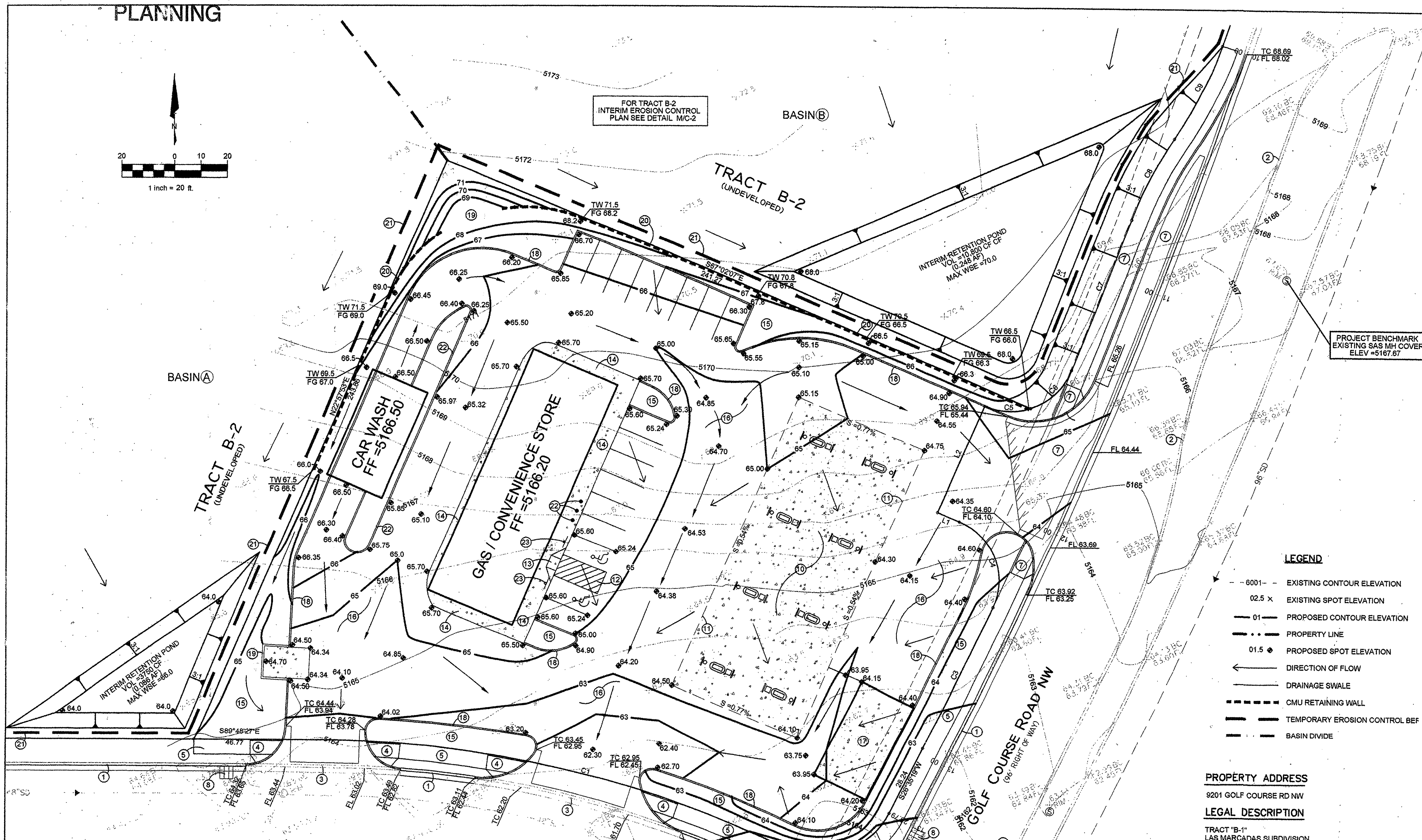
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
ROBERTS OIL
LAYOUT PLAN

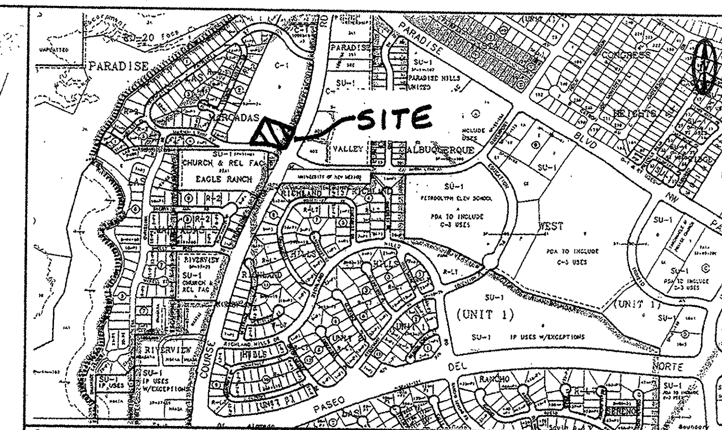
Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED AUG 2 7 2002 DESIGN REVIEW COMMITTEE	APPROVED NOV 2 2 2002 CITY ENGINEER			

City Project No.	Zone Map No.	Sheet	of
692181	C-12	3	8

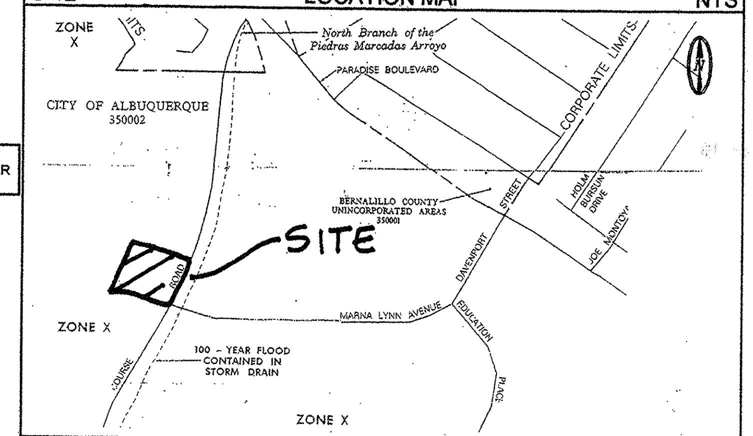
C:\LAND PORJECT 2\02524-ROBERTS OIL\02524-BASE\ LAYOUT.DWG



MARNA LYNN AVENUE NW
(60' RIGHT OF WAY)



C-12 LOCATION MAP NTS



FIRM PANEL NTS

LEGEND

6001	EXISTING CONTOUR ELEVATION
02.5 ×	EXISTING SPOT ELEVATION
01	PROPOSED CONTOUR ELEVATION
	PROPERTY LINE
01.5 ◈	PROPOSED SPOT ELEVATION
←	DIRECTION OF FLOW
	DRAINAGE SWALE
	CMU RETAINING WALL
	TEMPORARY EROSION CONTROL BEF
	BASIN DIVIDE

PROPERTY ADDRESS

9201 GOLF COURSE RD NW

LEGAL DESCRIPTION

TRACT "B-1"
LAS MARCADAS SUBDIVISION

PROJECT BENCHMARK

EXISTING SANITARY SEWER MH COVER
LOCATED WITHIN MEDIAN AT
GOLF COURSE RD NW
ELEV =5167.67 NGVD 1929

SURVEY

TOPOGRAPHIC AND FIELD MEASUREMENTS BY
SURVEYS SOUTHWEST LTD.
JUNE, 2002

GRADING AND DRAINAGE PLAN

PURPOSE AND SCOPE

Pursuant to the established Drainage Ordinance for the City of Albuquerque and the Development Process Manual, this Grading and Drainage Plan outlines the drainage management criteria for controlling developed runoff from the project site. The project consists of the construction of Robert's Oil Gas/Convenience Store, located on Golf Course NW at Marna Lynn NW. Proposed site improvements include paving, landscaping, utility, grading, and drainage improvements.

EXISTING CONDITIONS

The project site is approximately 1.22 acres in size and is located on Golf Course NW, at Marna Lynn NW. The project site is particularly described as Tract B-1, Las Marcadas Subdivision. The site is bounded by undeveloped commercial land on the north and west, Marna Lynn on the south, and Golf Course Road on the east. Site topography slopes from west to east at approximately 3-percent. The site is impacted by sheet flow from undeveloped Tract B-2. All on-site runoff drains southeasterly to existing public storm drains located in Golf Course Road. Portions of the site and Tract B-2 have served as a temporary ponding area pending construction of downstream paving and drainage improvements. Existing downstream improvements will allow for the vacation of all interim drainage easements presently encumbering the properties.

As shown by the attached FIRM Panel, this site is not impacted by a Flood Hazard Zone.

PROPOSED CONDITIONS

As shown by the Plan, the project consists of the construction of Robert's Oil Gas/Convenience Store, with associated site improvements. The Plan shows the contours and elevations required to properly grade and construct the required paving and drainage improvements. Flow arrows give the direction of drainage flows and the project hydrology is tabulated for both existing and proposed conditions.

All drainage flows will be managed on-site by paved swales that discharge to the perimeter streets. Existing drop inlets and storm drains located in Golf Course and Marna Lynn will intercept all flows. In order to control undeveloped off-site flows, temporary erosion control berms and interim retention ponds will be constructed on Tract B-2 to retain all undeveloped runoff. Existing downstream improvements will allow for the vacation of all interim drainage easements presently encumbering the properties.

EROSION CONTROL

Temporary erosion control will be required during the construction phase to protect downstream property and improvements from sediment and uncontrolled runoff. This Plan recommends the placement of earthen berms or silt fencing along the construction boundaries to mitigate sediment deposition into the adjoining properties and public streets. It is the Contractor's responsibility to properly maintain these facilities during the construction phase of the project.

As stated above, interim erosion control berms and retention ponds will be implemented on undeveloped Tract B-2 to prohibit the discharge of sediment into the public street and storm drainage system.

CALCULATIONS

Calculations are provided which define the 100-year/6 hour design storm falling with the project area under existing and proposed condition. Hydrology is per "Section 22.2, Part A, DPM, Vol 2" updated July 1997.

DRAINAGE PLAN NOTES

1. BLI recommends that the Owner obtain a Geotechnical Evaluation of the on-site soils prior to foundation/structural design.
2. This Plan recommends positive drainage away from all structures to prohibit ponding of runoff which may cause structural settlement. Future alteration of grades adjacent to the proposed structures is not recommended.
3. Irrigation within 10 feet of any proposed structure is not recommended. Introduction of irrigation water into subsurface soils adjacent to the structure could cause settlement.
4. This Plan is prepared to establish o -site drainage and grading criteria only. BLI assumes no responsibility for sub face analysis, foundation/structural design, or utility design.
5. Local codes may require all foot be placed in natural undisturbed soil. If the Contractor plans to place foo gs on engineered fill, a certification by a registered Professional Engineer will be required. If the contractor wishes BLI to prepare the Certification, we must be notified PRIOR to placement of the fill.
6. BLI recommends that the Owner obtain the services of a Geotechnical Engineer to test and inspect all earthwork aspects of the project.
7. The property boundary shown on this Plan is given for information only to describe the project limits. Property boundary information shown hereon does not constitute a boundary survey. A boundary survey performed by a licensed New Mexico Registered Professional Surveyor is recommended prior to construction.
8. All elevations are top of pavement unless noted otherwise.

◯ KEYED NOTES

1. EXISTING STD C&G TO REMAIN
2. EXISTING MEDIAN C&G TO REMAIN
3. REMOVE EXIST STD C&G. CONSTRUCT CONC VALLEY GUTTER PER STD DWG 2420
4. CONSTRUCT UNDIRECTIONAL HANDICAP RAMP PER STD DWG 2426
5. CONSTRUCT 6' SIDEWALK PER STD DWG 2430
6. CONSTRUCT HANDICAP RAMP PER STD DWG 2441
7. DECEL LANE IMPROVEMENTS BY WORK ORDER SEE COA PROJECT NO
8. EXISTING INLET
9. EXISTING LIGHT POLE
10. CONCRETE SLAB - SEE DETAIL C/C-2
11. CANOPY
12. ACCESSIBLE AREA AT 2% SLOPE MAX
13. ACCESSIBLE RAMP - SEE DETAIL H/C-2
14. 6" TURN DOWN SIDEWALK - SEE DETAIL F/C-2
15. LANDSCAPING
16. ASPHALT PAVEMENT - SEE DETAIL B/C-2
17. CONCRETE SLAB AT UST'S - SEE DETAIL D/C-2
18. 6" CONCRETE CURB & GUTTER - SEE DETAIL E/C-2
19. REFUSE ENCLOSURE
20. CONSTRUCT RETAINING WALL - SEE DETAIL A/C-2
21. CONSTRUCT TEMPORARY EROSION CONTROL BERM PER DETAIL L/C-2
22. 6" CONCRETE HEADER CURB - SEE DETAIL G/C-2
23. INS ALL HC SIGN ASSEMBLY - SEE DETAIL J/C-2
24. INSTALL STATIONARY BOLLARDS (3) CENTER @ ENTRY - 4.5' O.C.

PROJECT HYDROLOGY
ROBERT'S OIL

ZONE:	1
P_{6HOUR}	2.20
P_{10DAY}	3.67

UNDEVELOPED:

BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	1.22	1.22	0.00	0.00	0.00	0.44	1.6	0.04473
A	1.86	1.86	0.00	0.00	0.00	0.44	2.4	0.06820
B	5.11	5.11	0.00	0.00	0.00	0.44	6.6	0.1874

DEVELOPED (PROPOSED):

BASIN	AREA (ac)	A (ac)	B (ac)	C (ac)	D (ac)	E	Q (cfs)	VOL (ac ft)
SITE	1.22	0.00	0.06	0.12	1.04	1.81	5.0	0.1840

INTERIM	PONDING	REQUIREMENTS
BASIN	VOL REQ'D	VOL PROVIDED
A	0.0682 AF	0.0860 AF
B	0.1874 AF	0.2480 AF

LINE TABLE

LINE	BEARING	LENGTH
L1	N67°02'07"W	8.95'
L2	N22°57'53"E	45.00'

CURVE TABLE

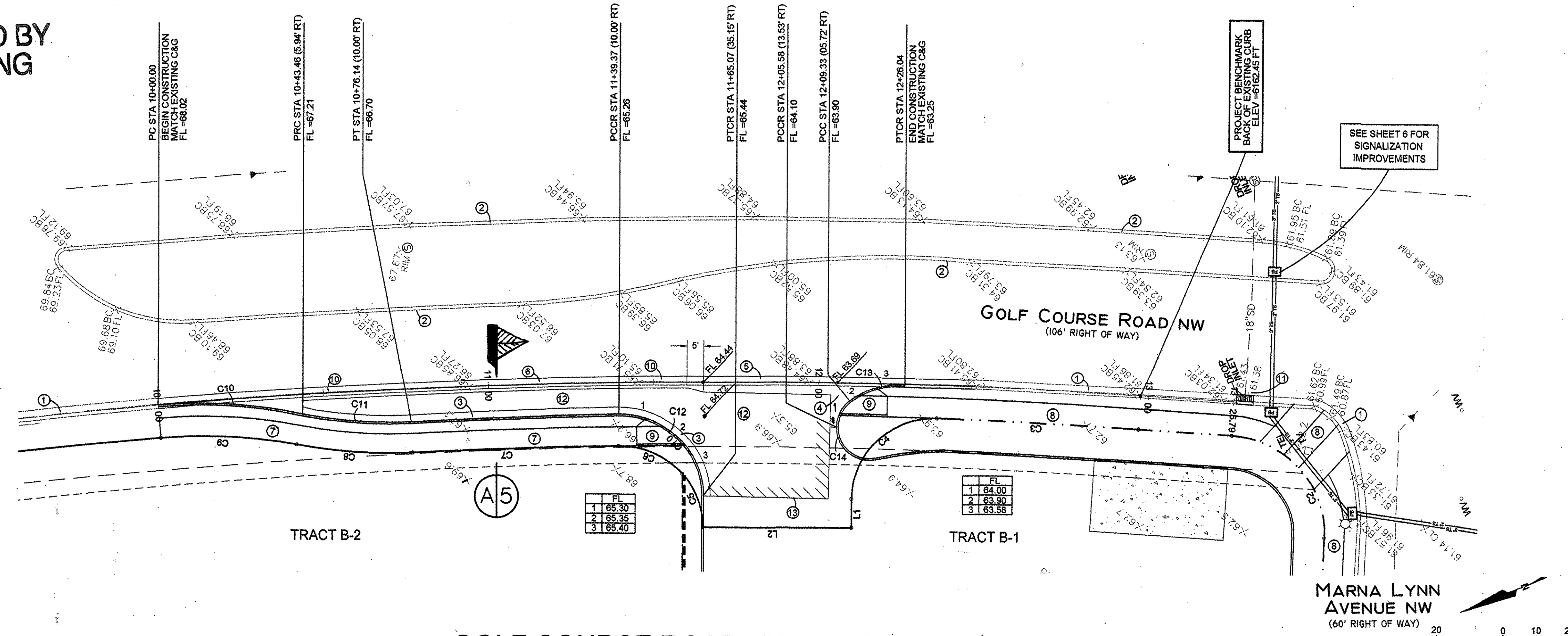
CURVE	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C1	410.00'	183.75'	25°40'41"	N76°58'07"W	182.21'
C2	30.00'	46.75'	89°16'55"	N71°13'47"E	42.16'
C3	1947.00'	61.19'	1°48'02"	N25°41'18"E	61.18'
C4	25.00'	40.07'	91°49'24"	N21°07'25"W	35.91'
C5	25.00'	17.95'	41°07'54"	S87°36'04"E	17.56'
C6	25.00'	21.77'	49°52'57"	N46°53'31"E	21.08'
C7	1937.37'	62.32'	1°50'34"	N21°01'45"E	62.31'
C8	150.00'	35.29'	13°28'47"	N26°50'51"E	41.00'
C9	150.00'	41.13'	15°42'36"	N25°43'57"E	68.72'

ROBERT OIL
GRADING & DRAINAGE PLAN

DENNIS A. LORENZ — NEW MEXICO — 9647 — REGISTERED PROFESSIONAL ENGINEER
7-12-02

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro NE Building 1 Suite 1200
Albuquerque, New Mexico 87110
Ph: 505-888-6088 Fax: 505-888-6188

DRAWN BY: RM
CHECKED BY: D.A.L.
FILE: 2524-BASE.DWG
DATE: JULY 2002
SHEET 4 OF 8



GOLF COURSE ROAD NW - DECEL LANE

1" = 20' (H)
1" = 5' (V)

LINE TABLE		
LINE	BEARING	LENGTH
L1	N67°02'07"W	8.95'
L2	N22°57'53"E	45.00'

CURVE TABLE					
CURVE	RADIUS	LENGTH	DELTA	CHORD BEARING	CHORD LENGTH
C2	30.00'	46.75'	89°16'55"	N71°13'47"E	42.16'
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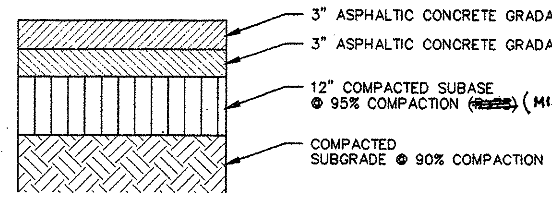
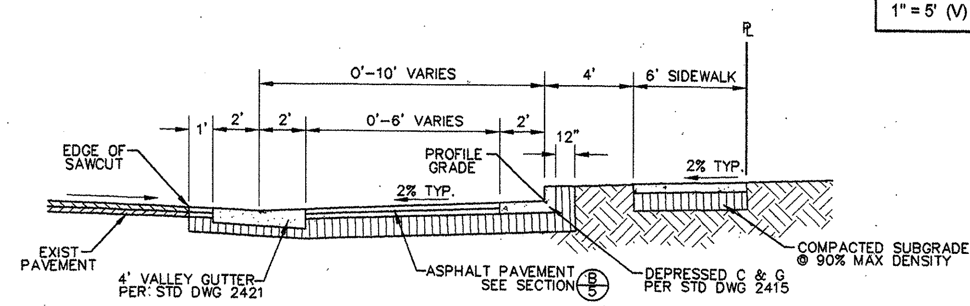
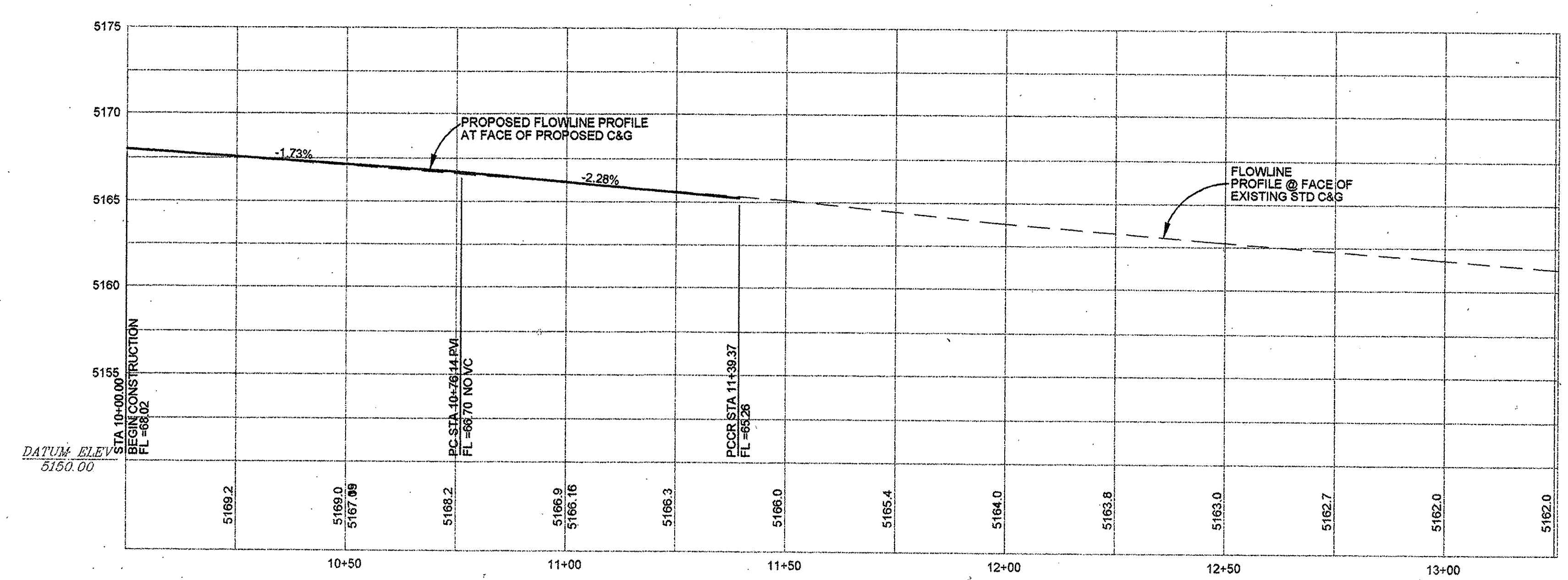
C8	150.00'	35.29'	13°28'47"	N26°50'51"E	41.00'
C9	150.00'	41.13'	15°42'36"	N25°43'57"E	68.72'
C10	150.00'	43.96'	16°47'27"	N26°17'46"E	43.80'
C11	149.72'	32.86'	12°34'31"	S26°38'59"W	32.79'
C12	25.00'	39.82'	91°16'08"	N67°21'56"E	35.74'
C13	25.00'	17.96'	41°10'12"	N05°57'51"E	17.58'
C14	10.00'	26.68'	152°51'23"	S88°57'03"W	19.44'



ARTERIAL PAVEMENT SECTION (B/5)
NTS



DECEL LANE SECTION (A/5)
NTS



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LEGEND

ITEM	EXISTING	PROPOSED
WATERLINE	6" W	6" W
SANITARY SEWER	8" SAS	8" SAS
STORM SEWER	36" STS	36" STS
FIRE HYDRANT		
VALVE		
METERED WATER SERVICE		
MANHOLE		
CURB AND GUTTER		
HEADER CURB		
DROP INLET		
OVERHEAD ELEC WITH POWER POLE	OHE	OHE
UNDERGROUND ELEC, GAS,TEL,TV	UGT	UGT
CURB ELEVATIONS	TOP CONC. ELEV. FLOWLINE ELEV.	TOP CONC. ELEV. FLOWLINE ELEV.
SPOT ELEV.	x 16.7	16.7
SEWER SERVICE		
RIGHT OF WAY		
EASEMENT		
POWER POLE (GUYED)	PP	PP
CENTERLINE		
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2

ALL STATIONING IS BASED ON FACE OF EXISTING STANDARD CURB & GUTTER

KEYED NOTES

1. EXISTING STANDARD C&G TO REMAIN
2. EXISTING MEDIAN C&G TO REMAIN
3. CONSTRUCT DEPRESSED C&G PER STD DWG 2415
4. CONSTRUCT CONCRETE VALLEY GUTTER PER STD DWG 2420
5. CONSTRUCT 6' WIDE VALLEY GUTTER PER STD DWG 2420
6. CONSTRUCT4' WIDE VALLEY GUTTER PER STD DWG 2421
7. CONSTRUCT 6' SIDEWALK PER STD DWG 2430
8. FUTURE SIDEWALK BY BUILDING PERMIT FOR ROBERT'S OIL
9. CONSTRUCT UNDIRECTIONAL HANDICAP RAMP PER STD DWG 2426
10. EXISTING STANDARD C&G TO BE REMOVED FROM STA 10+00 TO STA 12+26.04
11. EXISTING DROP INLET TO REMAIN
12. CONSTRUCT ARTERIAL PAVEMENT PER SECTION A/5 THIS SHEET
13. EDGE OF NEW PAVEMENT

AS-BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

DATE

BENCHMARKS

PROJECT BENCHMARK IS A PAINTED BOX ☒
AT THE EXISTING BACK OF CURB LOCATED ON
GOLF COURSE ROAD NE APPROXIMATELY 38 FEET
NORTH OF THE NNW CURB RETURN AT MARNA LYNN
AVENUE NW.
ELEVATION =6162.45 FEET NGVD 1929

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DENNIS A. LORENZ
NEW MEXICO
9647
REGISTERED PROFESSIONAL ENGINEER
8-8-02

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	

DESIGNED BY	D.A.L.	DATE 8 - 2002
DRAWN BY	R.M.	DATE 8 - 2002
CHECKED BY	D.A.L.	DATE 8 - 2002

BRASHER & LORENZ
CONSULTING ENGINEERS
2201 San Pedro Blvd. NE Bldg. 1, Suite 1200
Albuquerque, New Mexico 87110
Phone: (505) 888-6088 Fax: (505) 888-6188

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
ROBERTS OIL
DECEL LANE PLAN & PROFILE

Design Review Committee: APPROVED AUG 2 7 2002 DESIGN REVIEW COMMITTEE

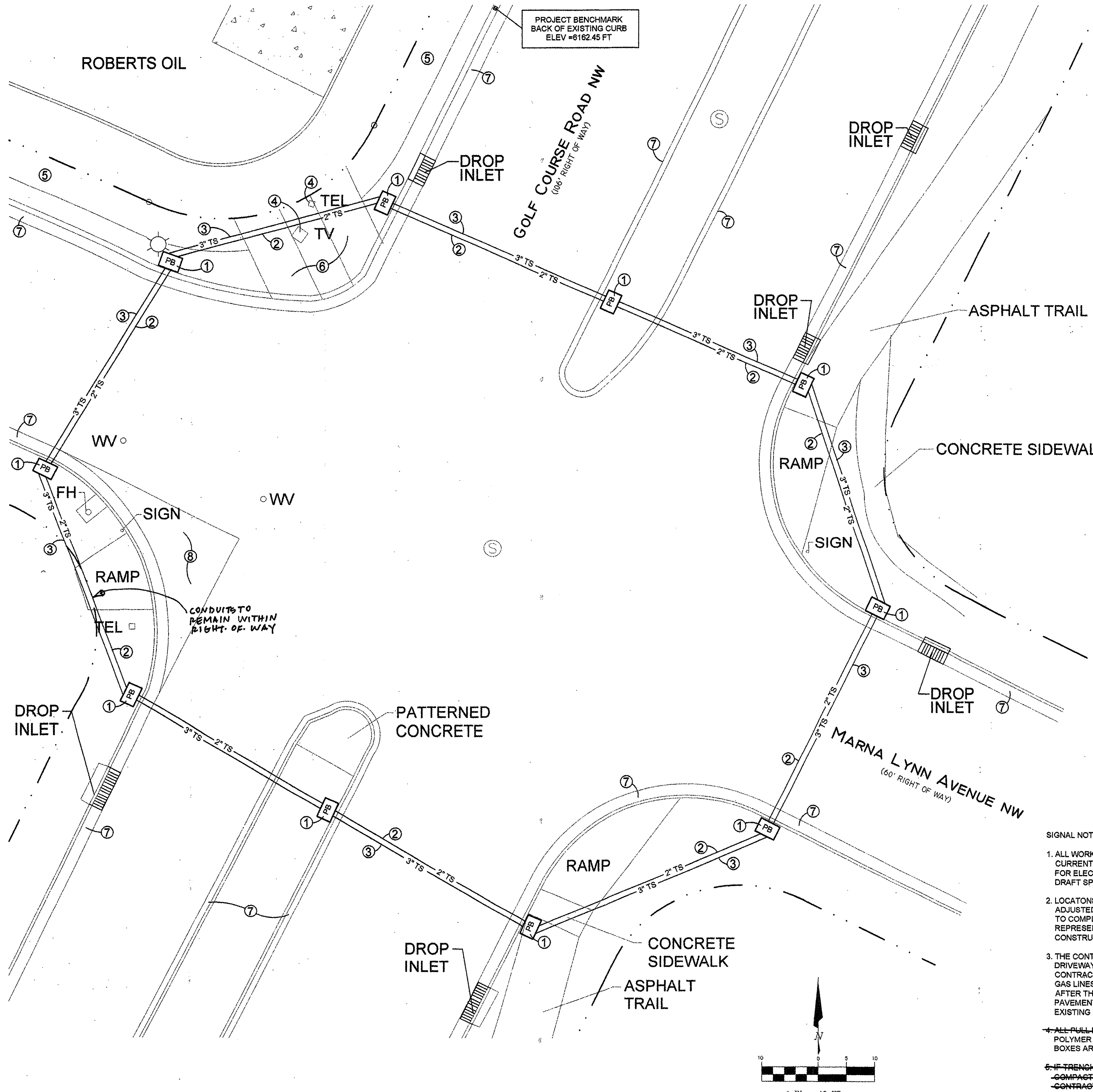
City Engineer Approval: APPROVED NOV 2 2 2002 CITY ENGINEER

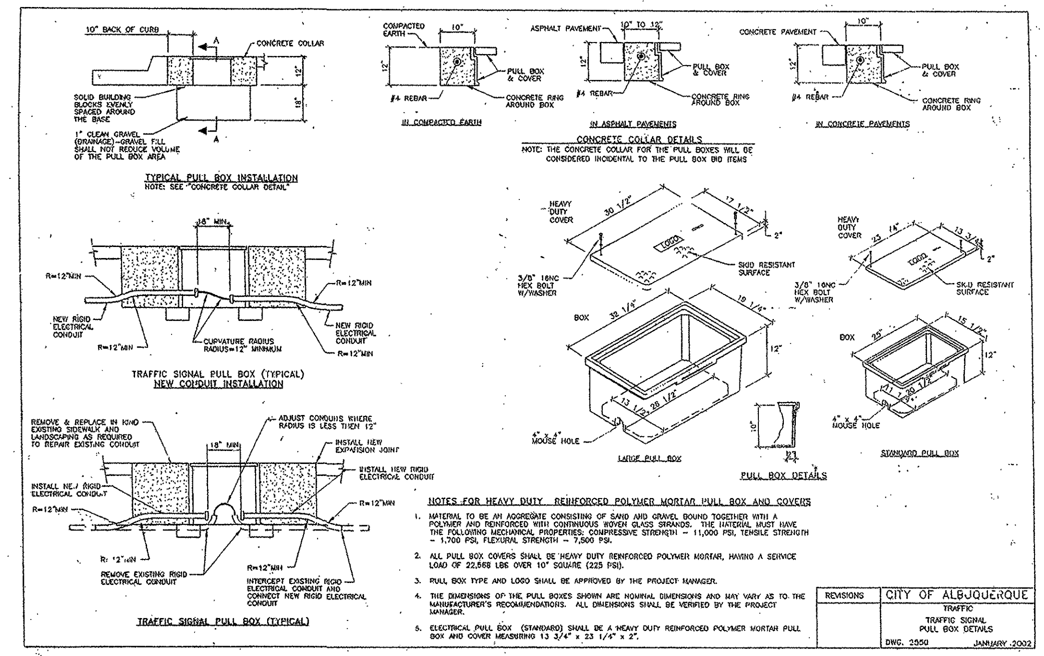
Last Design Update

Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	of
692181	C-12	5	8

SCANNED BY
PLANNING





O KEY NOTES

1. INSTALL LARGE PULLBOX PER COA STD DWG 2550 (SEE DETAIL THIS SHEET) EXACT LOCATIONS SHALL BE VERIFIED BY THE FIELD ENGINEER
2. INSTALL 2" TRAFFIC SIGNAL CONDUIT
3. INSTALL 3" TRAFFIC SIGNAL CONDUIT
4. EXISTING CATV AND QUEST UTILITY RISERS TO BE RELOCATED BY EACH OPERATING UTILITY PRIOR TO CONSTRUCTION OF SIDEWALKS AND ACCESSIBLE RAMP -NOT IN THIS CONTRACT
5. FUTURE SIDEWALK BY ROBERTS OIL BY PERMIT -NIC-
6. FUTURE ACCESSIBLE RAMP BY ROBERTS OIL BY PERMIT -NIC-
7. EXISTING CONCRETE CURB & GUTTER
8. EXISTING CONCRETE VALLEY GUTTER

LEGEND

ITEM	EXISTING	PROPOSED
WATERLINE	6" W	6" W
SANITARY SEWER	8" SAS	8" SAS
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FIRE HYDRANT		
VALVE		
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CURB ELEVATIONS	TOP CONC. ELEV. FLOWLINE ELEV	TOP CONC. ELEV. FLOWLINE ELEV
SPOT ELEV.	x 16.7	16.7
SEWER SERVICE		
RIGHT OF WAY		
EASEMENT		
POWER POLE (GUYED)	PP	PP
CENTERLINE		
TOP OF ASPHALT ELEV.	TA 16.2	TA 16.2
TRAFFIC SIGNAL PULLBOX		PB
RIGHT OF WAY		

SIGNAL NOTES

1. ALL WORK ON THESE PLANS TO BE PERFORMED UNDER THIS CONTRACT SHALL CONFORM TO THE CURRENT NATIONAL ELECTRIC CODE, THE STANDARDS OF THE NATIONAL BOARD OF UNDERWRITERS FOR ELECTRICAL WIRING AND APPARATUS, AND THE CITY'S TRAFFIC ENGINEERING OPERATIONS THIRD DRAFT SPECIFICATIONS (JUNE 1994).

2. LOCATONS OF CONDUIT AND PULL BOXES SHOWN ON THESE PLANS ARE SCHEMATIC AND SHALL BE ADJUSTED IN THE FIELD TO MAXIMIZE CLEAR SPACE AVAILABLE FOR PEDESTRIANS AND WHEELCHAIRS TO COMPLY WITH THE ADA. CONTRACTOR SHALL MEET WITH THE CITY'S TRAFFIC ENGINEERING REPRESENTATIVE IN THE FIELD AT ALL LOCATIONS TO SPOT EQUIPMENT BEFORE BEGINNING CONSTRUCTION.

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

~~4. ALL PULL BOXES SHALL BE REINFORCED POLYMER MORTAR HEAVY DUTY TYPE WITH REINFORCED~~ OK, DAL POLYMER MORTAR HEAVY DUTY COVERS. CONCRETE COVERS, STEEL COVERS AND CONCRETE PULL BOXES ARE NOT ACCEPTABLE.

~~5. IF TRENCH WIDTHS LESS THAN 12 INCHES ARE PROPOSED BY THE CONTRACTOR, APPROVED COMPACTION METHODS SHALL BE USED DURING BACKFILL TO PREVENT LATENT TRENCH FAILURES. THE CONTRACTOR SHALL USE GROUT OR LEAN FILL AS APPROVED BY THE PROJECT ENGINEER IN LIEU OF EARTH BACKFILL.~~

6. ALLDATA SHOWN HEREIN CONCERNING EXISTING UTILITIES HAS BEEN OBTAINED FROM AS-BUILT DRAWINGS AND FIELD MEASUREMENTS WHICH MAY OR MAY NOT BE ACCURATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FIELD EXPLORATION, IF NECESSARY, TO MORE SPECIFICALLY LOCATED UTILITY LINES. THE COST OF LOCATING EXISTING UTILITY LINES WILL BE CONSIDERED INCIDENTAL TO CONSTRUCTION.

C:\LAND PORJECT 2\02524-ROBERTS OIL\02524-BASE\ INTER.DWG

AS-BUILT INFORMATION

CONTRACTOR	
WORK STAKED BY	DATE
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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DENNIS A. LORENZ NEW MEXICO 9647 REGISTERED PROFESSIONAL ENGINEER
8-20-02

REVISIONS

NO.	DATE	REMARKS	BY
		DESIGN	

DESIGNED BY	D.A.L.	DATE 8 - 2002
DRAWN BY	R.M.	DATE 8 - 2002
CHECKED BY	D.A.L.	DATE 8 - 2002

BRASHER & LORENZ
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
ROBERTS OIL
SIGNALIZATION IMPROVEMENTS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
APPROVED AUG 2 7 2002 DESIGN REVIEW COMMITTEE	APPROVED NOV 2 2 2002 CITY ENGINEER			

City Project No.	Zone Map No.	Sheet	of
692181	C-12	6	8

CONSTRUCTION TRAFFIC CONTROL GENERAL NOTES

1. CONTRACTOR MUST OBTAIN FROM CONSTRUCTION COORDINATION AN EXCAVATION/BARRICADING PERMIT BEFORE ENGAGING IN ANY CONSTRUCTION, MAINTENANCE OR REPAIR WORK IN ANY OF THE CITY OF ALBUQUERQUE'S RIGHTS-OF-WAY. EMERGENCY WORK THAT WOULD PRESERVE LIFE OR PROPERTY IS EXCLUDED WITH THE UNDERSTANDING, THAT A PERMIT SHALL BE OBTAINED WITHIN 24 TO 48 HOURS.

2. CONTRACTOR SHALL AT THE TIME OF PERMIT REQUEST, SUBMIT FOR APPROVAL BY CONSTRUCTION COORDINATION, A TRAFFIC CONTROL PLAN DETAILING ALL EXISTING TOPOGRAPHY SUCH AS LANE WIDTHS, DRIVEWAYS, AND BUSINESS/RESIDENTIAL ACCESSES. THE TRAFFIC CONTROL PLAN SHALL INCLUDE ALL PHASES OF WORK AND SCHEDULES INVOLVED IN THE CONSTRUCTION PROJECT. ANY SEPERATE PHASES OF A CONSTRUCTION PROJECT SHALL BE GIVEN AN INDIVIDUAL PERMIT EACH. BLANKET PERMITS WILL NOT BE ISSUED.

3. THESE TYPICAL TRAFFIC CONTROL PLANS DO NOT REFLECT THE EXISTING TOPOGRAPHY SUCH AS DRIVEWAYS, LANE WIDTHS, AND BUSINESS/RESIDENTIAL ACCESSES. EVERY LOCATION THAT REQUIRES CONSTRUCTION TRAFFIC CONTROL SHALL HAVE A DETAILED TRAFFIC CONTROL PLAN SHOWING ALL EXISTING TOPOGRAPHY.

4. CONSTRUCTION SHALL NOT BEGIN UNLESS A TRAFFIC CONTROL PLAN HAS BEEN APPROVED AND VERIFIED BY CONSTRUCTION COORDINATION.

5. CONSTRUCTION COORDINATION SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY TRAFFIC CONTROL CHANGES NEEDED BY CONTRACTOR, THAT WERE NOT PREVIOUSLY APPROVED. THESE TRAFFIC CONTROL CHANGES SHALL BE REQUESTED IN WRITING ACCOMPANIED WITH A TRAFFIC CONTROL PLAN REFLECTING SUCH CHANGES.

6. ALL CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), LATEST EDITION. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSTALL, SERVICE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES. TRAFFIC CONTROL DEVICES SHALL NOT BE REMOVED OR ALTERED IN ANY WAY WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION, PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

7. THE CONSTRUCTION TRAFFIC CONTROL INITIAL SET-UP SHALL BE BY AN AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION (ATSSA) CERTIFIED WORKSITE TRAFFIC SUPERVISOR. THE MAINTENANCE AND SERVICING SHALL ALSO BE DONE BY AN ATSSA CERTIFIED WORKSITE TRAFFIC SUPERVISOR OR EQUIVALENT.

8. CONTRACTOR IS RESPONSIBLE TO MAINTAIN AND SERVICE ALL TRAFFIC CONTROL DEVICES 24 HOURS A DAY, 7 DAYS A WEEK THROUGHOUT LENGTH OF PROJECT. CONTRACTOR IS RESPONSIBLE THAT ALL TRAFFIC CONTROL DEVICES COMPLY WITH THE MUTCD, LATEST EDITION..

9. ALL ADVANCE WARNING SIGNS SHALL BE DOUBLE INDICATED WHENEVER THERE ARE MULTI-LANE TRAFFIC IN ANY ONE GIVEN DIRECTION AND THERE IS SUFFICIENT MEDIAN SPACE.

10. ALL BARRICADES IN ALL TAPERS AND TANGENTS SHALL BE PLACED APART, A DISTANCE MEASURED IN FEET, EQUAL TO THAT OF THE POSTED SPEED LIMIT. NO EXCEPTIONS UNLESS APPROVED BY CONSTRUCTION COORDINATION PER MUTCD SECTION 6A-4.

⚠ 11. ALL WORK IN ARTERIAL ROADWAYS SHALL BE ON A CONTINUOUS 24 HOUR PER DAY BASIS UNTIL COMPLETED.

12. CONTRACTOR IS RESPONSIBLE TO PROVIDE CONSTRUCTION COORDINATION, A WEEKLY LOG OF DAILY INSPECTIONS OF BARRICADE AND MAINTENANCE SCHEDULES ON PROJECTS THAT ARE OVER ONE WEEK DURATION.

13. EQUIPMENT OR MATERIALS SHALL NOT BE STORED WITHIN 15 FEET OF A TRAVELED TRAFFIC LANE DURING NON-WORKING HOURS WITHOUT THE APPROVAL OF CONSTRUCTION COORDINATION.

14. CONTRACTOR SHALL PROVIDE AND MAINTAIN A SAFE AND ADEQUATE MEANS OF CHANNELIZING PEDESTRIAN TRAFFIC AROUND AND THROUGH THE CONSTRUCTION AREA.

15. CONTRACTOR IS RESPONSIBLE FOR OBLITERATION OF ANY CONFLICTING STRIPING AND RESPONSIBLE FOR ALL TEMPORARY STRIPING.

16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FACILITIES, BUSINESSES AND/OR RESIDENTS AT ALL TIMES.

17. CONTRACTOR SHALL PROVIDE ACCESS SIGNS FOR BUSINESSES LOCATED WITHIN THE CONSTRUCTION AREA UNDER THE SUPERVISION OF CONSTRUCTION COORDINATION. EACH ACCESS SIGN SHALL HAVE 5 INCH, WHITE OPAQUE LETTERING ON BLUE REFLECTORIZED BACKGROUND. ACCESS SIGNS SHALL BE CONSIDERED INCIDENTAL TO THE BID AND NOT PART OF THE CONTRACT UNLESS OTHERWISE STATED. NO MORE THAN 3 BUSINESSES SHALL BE LISTED ON A ACCESS SIGN. SHOPPING CENTERS AND MALLS SHALL BE LISTED AS SUCH.

18. ALL ADVANCE WARNING SIGNS SHALL MEET THE MINIMUM REFLECTIVE INTENSITY REQUIREMENTS SET FORTH BY THE CITY OF ALBUQUERQUE. CONSTRUCTION COORDINATION SHALL DETERMINE ALL REQUIREMENTS AND APPROVE OR DISAPPROVE ANY ADVANCE WARNING SIGN PER SECTION 6A-4 OF THE MUTCD, LATEST EDITION.

⚠ 19. 48 HOURS PRIOR TO OCCUPYING OR CLOSING OF A RIGHT-OF-WAY, CONTRACTOR SHALL NOTIFY: POLICE, FIRE DEPARTMENT, SCHOOLS, HOSPITALS, TRANSIT AUTHORITY, BUSINESSES AND/OR RESIDENTS THAT WILL BE AFFECTED BY THE CONSTRUCTION.

20. ANY FIELD ADJUSTMENTS SHALL BE APPROVED BY CONSTRUCTION COORDINATION.

21. EXCAVATIONS SHALL BE PLATED, TEMPORARILY PATCHED OR RESURFACED PRIOR TO OPENING OF TRAFFIC. A MINIMUM OF 11 FEET SHALL BE PROVIDED FOR TRAFFIC IN ANY GIVEN DIRECTION. CONTRACTOR IS RESPONSIBLE FOR ANY WORK INVOLVED IN SATISFYING THESE REQUIREMENTS.

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

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

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

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

⚠ 26. ADVANCE WARNING SIGNS SHALL BE 36"x36" MIN. WITH SUPER ENGINEERING GRADE SHEETING OR BETTER. MOUNTING HEIGHT AT TOP OF SIGN SHALL BE THE SAME AS FOR A 48" SIGN AS INDICATED IN THE M.U.T.C.D.

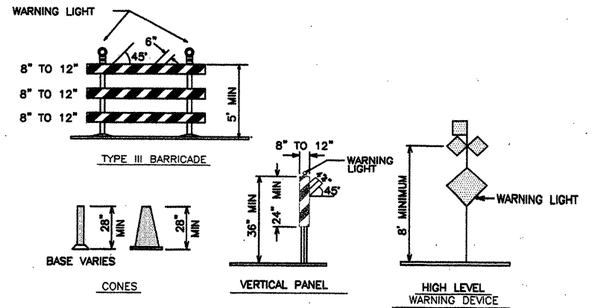
⚠ 27. CONTRACTOR SHALL MAINTAIN A GRAFFITI-FREE WORKSITE. ALL GRAFFITI SHALL BE PROMPTLY REMOVED FROM ALL EQUIPTMENT, BOTH PERMANENT AND TEMPORARY.

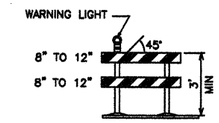
SPECIAL PROJECT TRAFFIC CONTROL NOTES

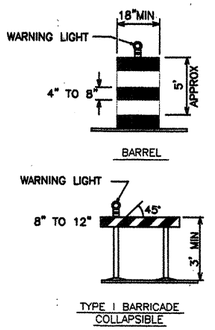
1. CONTRACTOR SHALL PERFORM AS MUCH WORK AS POSSIBLE PRIOR TO AFFECTING TRAFFIC ON GOLF COURSE ROAD.
2. DAILY LANE CLOSURES ON SOUTHBOUND GOLF COURSE ROAD SHALL NOT BEGIN EARLIER THAN 9:00 A.M., MONDAY THROUGH FRIDAYS.
3. CONTRACTOR SHALL WORK MINIMUM HOURS FROM 7:00 A.M. THROUGH 7:00 P.M. WHEN LANE CLOSURES ON GOLF COURSE ROAD NEED TO REMAIN OVERNIGHT.
4. CONTRACTOR IS ALLOWED NO MORE THAN FIVE DAYS OF OVERNIGHT LANE CLOSURE ON GOLF COURSE ROAD.
5. ALL LANE CLOSURES ON GOLF COURSE ROAD ARE SUBJECT TO ARTERIAL/ COLLECTOR ROAD USAGE FEES OF $0.01 PER SQUARE FOOT OF BARRICADED AREA PER DAY.

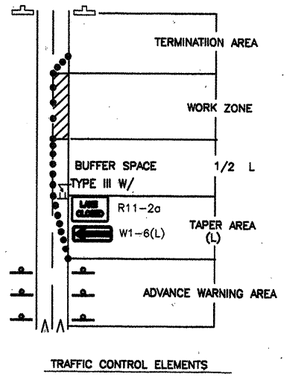
DENNIS A LORENZ NEW MEXICO 9067 REGISTERED PROFESSIONAL ENGINEER
8-8-02

FOR SPECIAL NOTES ONLY









LEGEND

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

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

TAPER REQUIREMENT

SPEED LIMIT (MPH)	TAPER LENGTH(L) (FEET) 10' LANE	11' LANE	12' LANE	MINIMUM NUMBER OF DEVICES FOR TAPER	MAXIMUM DEVICE SPACING IN FEET ALONG TAPER	AFTER TAPER
20	70	75	80	5	20	20
25	105	115	125	6	25	25
30	150	165	180	7	30	30
35	205	225	245	8	35	35
40	270	295	320	9	40	40
45	450	495	540	13	45	45
50	500	550	600	13	50	50
55	550	605	660	13	55	55

RECOMMENDED SIGN SPACING(D) FOR ADVANCE WARNING SIGN SERIES

SPEED MILES PER HOUR	MINIMUM DISTANCE IN FEET BETWEEN SIGNS	FROM LAST SIGN TO TAPER
0–20	10 X SPEED LIMIT	10 X SPEED LIMIT
25–30	10 X SPEED LIMIT	10 X SPEED LIMIT
30–35	10 X SPEED LIMIT	10 X SPEED LIMIT
40–45	10 X SPEED LIMIT	10 X SPEED LIMIT
50–60	10 X SPEED LIMIT	10 X SPEED LIMIT

TAPER CRITERIA

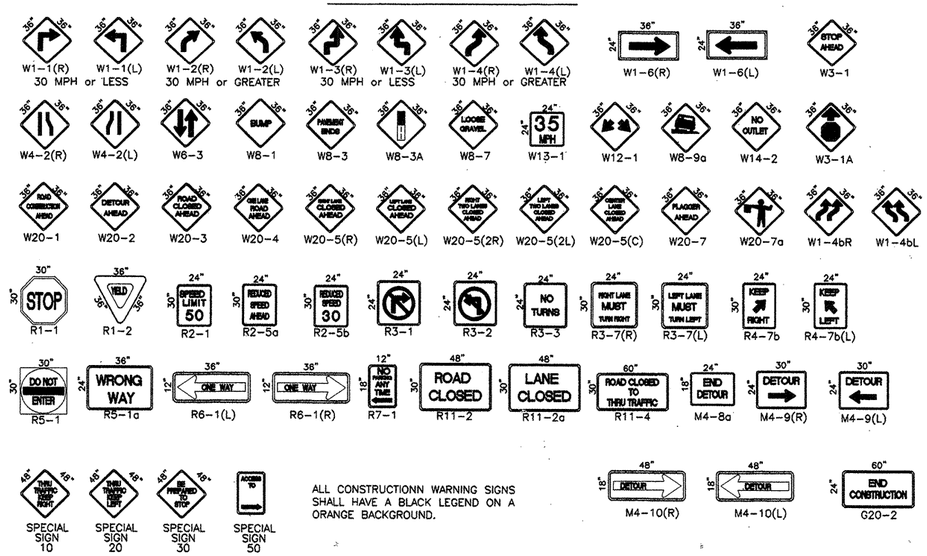
TYPE OF TAPER	TAPER LENGTH
UPSTREAM TAPER:	
MERGING TAPER	L MINIMUM
SHIFTING TAPER	1/2 L MINIMUM
SHOULDER TAPER	1/2 L MINIMUM
TWO-WAY TRAFFIC TAPER	100 FEET MAXIMUM
DOWNSTREAM TAPERS	100 FEET PER LANE

TAPER LENGTH COMPUTATION

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

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

SIGN FACE DETAILS



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

SURVEY INFORMATION — FIELD NOTES

NO.	BY	DATE

BENCH MARKS

PROJECT BENCHMARK IS A PAINTED BOX ☒ AT THE EXISTING BACK OF CURB LOCATED ON GOLF COURSE ROAD NE APPROXIMATELY 39 FEET NORTH OF THE NW CURB RETURN AT MARNA LYNN AVENUE NW.
ELEVATION =6162.45 FEET NGVD 1929

AS-BUILT INFORMATION

CONTRACTOR — DATE
ENGINEER — DATE
SURVEYOR — DATE
OWNER — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

ENGINEER'S SEAL

COA STD

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY C.O.A. STANDARDS	DATE 8-2002
		DRAWN BY C.O.A. STANDARDS	DATE 8-2002
		CHECKED BY C.O.A. STANDARDS	DATE 8-2002

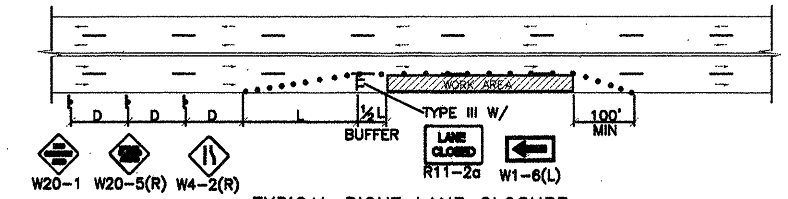
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ROBERTS OIL
SIGNING AND CONSTRUCTION TRAFFIC CONTROL STANDARDS

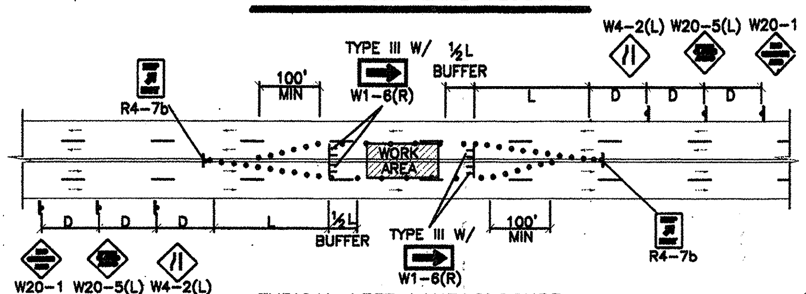
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA STD	COA STD			

CITY PROJECT NO. 692181 | ZONE MAP NO. C-12 | SHEET 7 OF 8

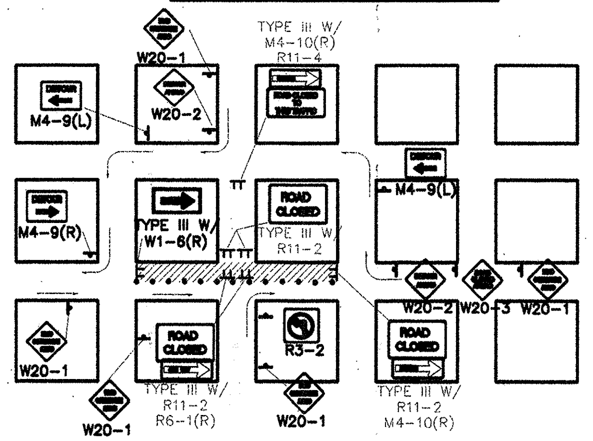
C:\LAND PROJECT 2\02524-ROBERTS OIL\02524-TCP-1.DWG



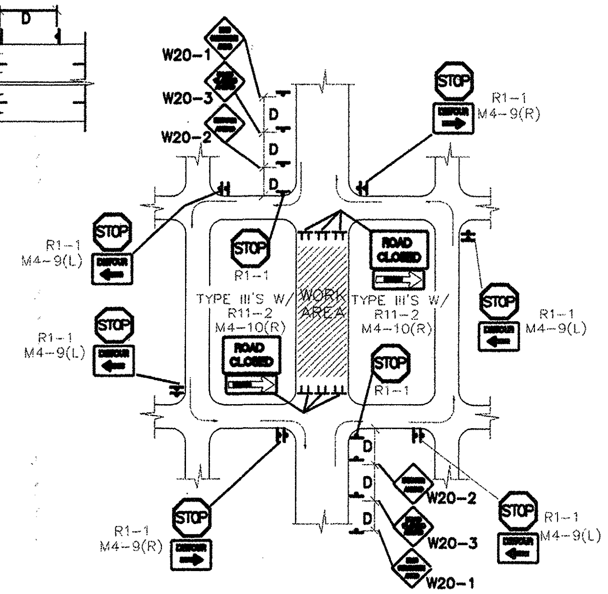
TYPICAL RIGHT LANE CLOSURE



TYPICAL LEFT LANE CLOSURE



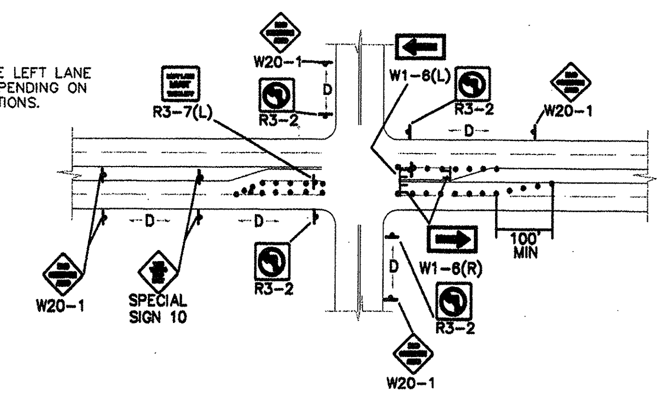
TYPICAL ONE DIRECTION DETOUR



TYPICAL STREET CLOSURE

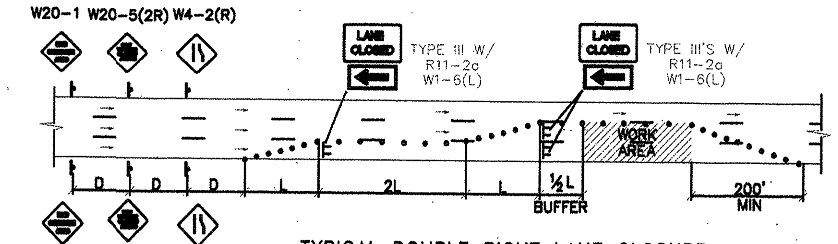
NOTE: (R1-1) BASED ON FIELD CONDITIONS.

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

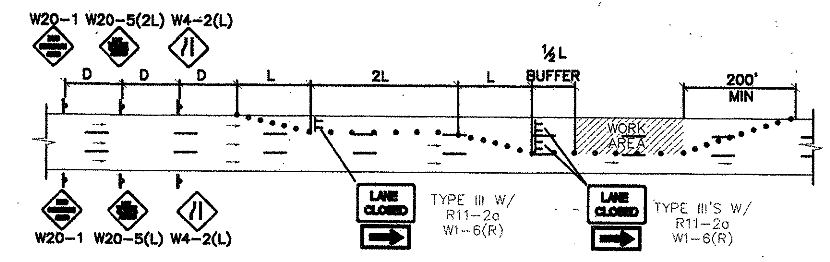


TYPICAL LANE CLOSURE AT INTERSECTION

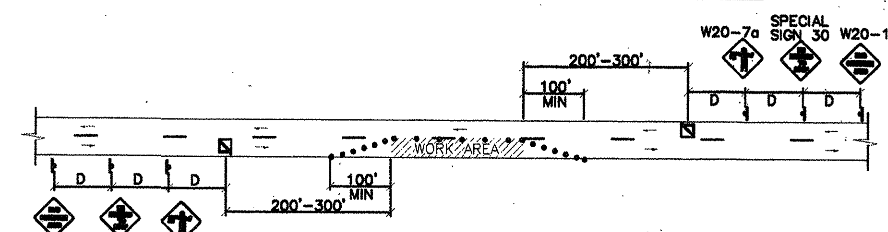
NOTE: DEPENDING ON WORK ZONE LOCATION.



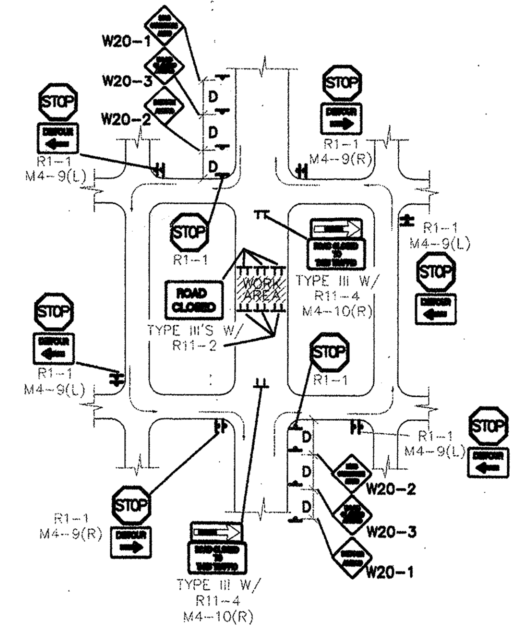
TYPICAL DOUBLE RIGHT LANE CLOSURE



TYPICAL DOUBLE LEFT LANE CLOSURE

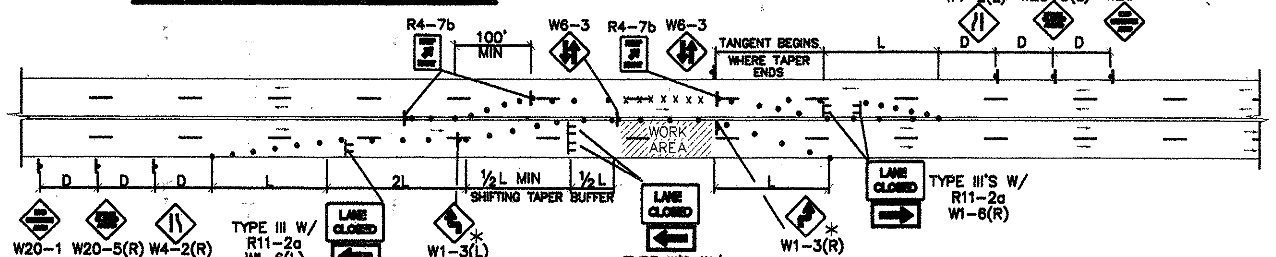


TYPICAL FLAGGING OPERATION

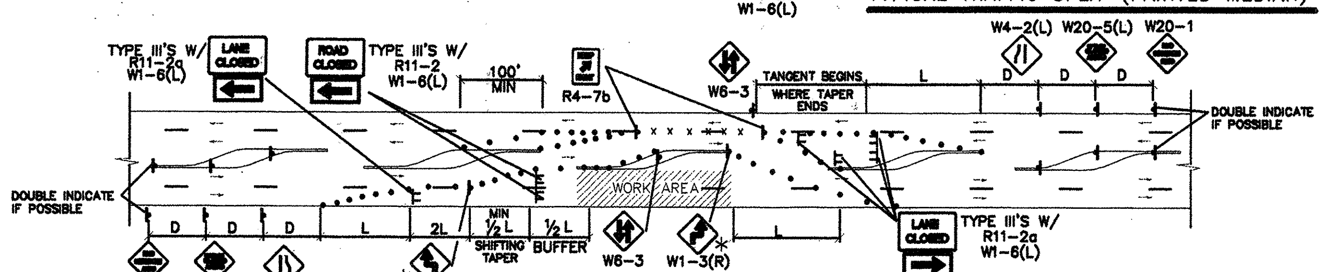


TYPICAL MID-BLOCK CLOSURE

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



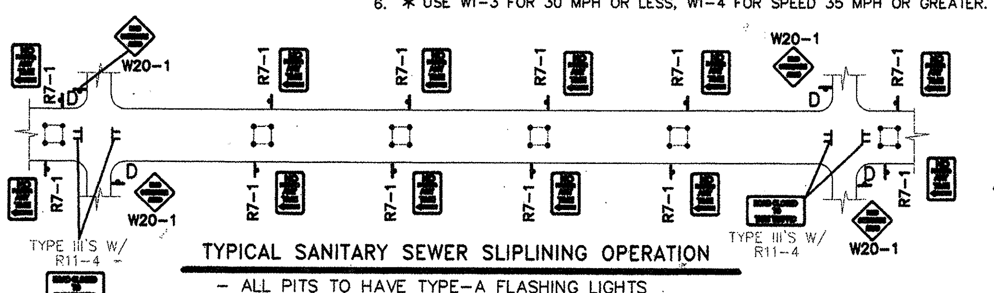
TYPICAL TRAFFIC SPLIT-(PAINTED MEDIAN)



TYPICAL TRAFFIC SPLIT - (RAISED MEDIAN)

TRAFFIC SPLIT NOTES:

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



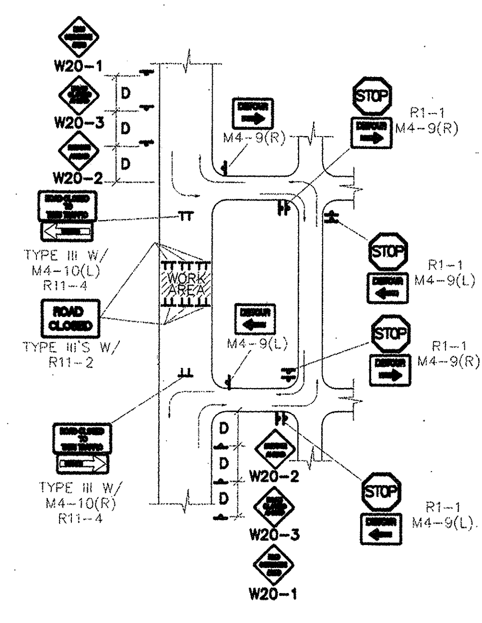
TYPICAL SANITARY SEWER SLIPLINING OPERATION

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

GENERAL NOTE:

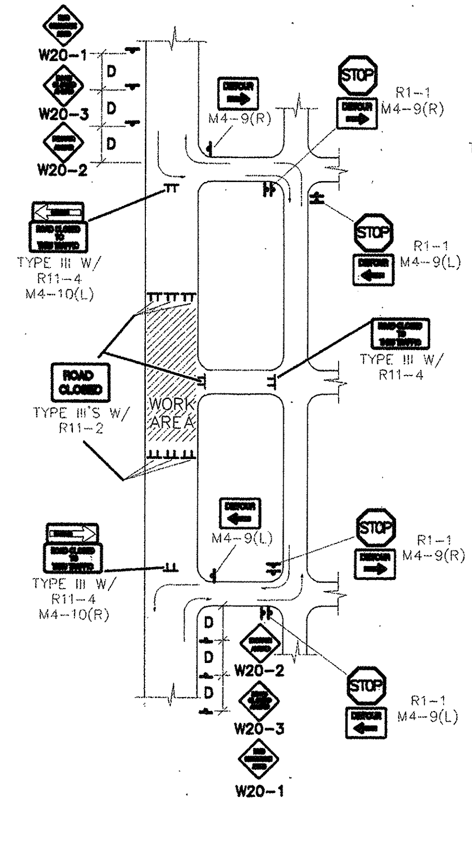
ALL CONSTRUCTION WARNING SIGNS SHALL HAVE A BLACK LEGEND ON A ORANGE BACKGROUND.

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



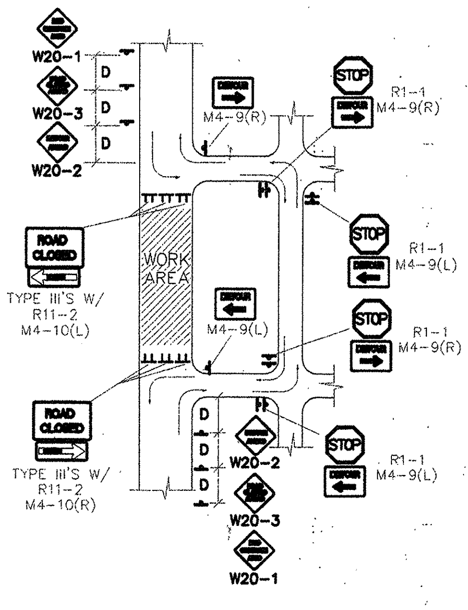
TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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



TYPICAL STREET CLOSURE

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

AS-BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY	DATE
INSPECTOR'S ACCEPTANCE BY	DATE
FIELD VERIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

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FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

COA STD

⚠ NO.	DATE	REMARKS	BY
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: TYPICAL TRAFFIC CONTROL & SIGNING EXAMPLES (REF MUTCD)

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.
COA STD	COA STD			

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
692181	C-12	8	8