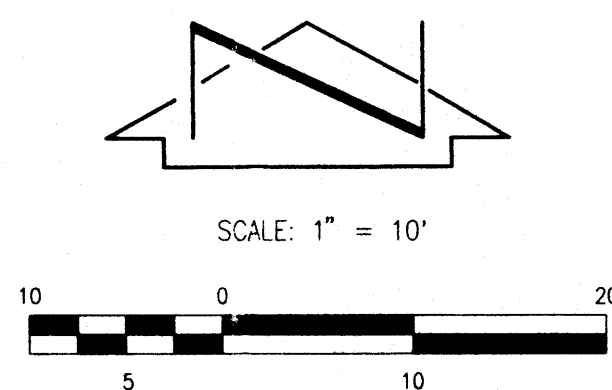


**VICINITY MAP**  
SCALE: 1" = 750'

**J-16**



**LEGAL DESCRIPTION**

PORTION OF UNM NORTH CAMPUS NW 1/4 SW 1/4  
SEC 15, T10N, R3E

**PROJECT BENCHMARK**

CITY OF ALBUQUERQUE CONTROL MONUMENT (6-J16)  
A STANDARD ACS BRASS TABLET STAMPED "6-J16 1981"  
SET FLUSH WITH THE GROUND 2.0 FT. BEHIND THE  
BACK OF CURB. LOCATED 2 MILES EAST OF DOWNTOWN  
ALBUQUERQUE, AT THE INTERSECTION OF STANFORD DR. AND  
CONSTITUTION AVE.  
ELEVATION = 5155.18 FT. (M.S.L.D.)

**T.B.M.**

A SQUARE "□" CHISELED ON TOP OF CURB AT THE N.E.  
SIDE OF THE INTERSECTION OF STANFORD DR N.E.  
AND MOUNTAIN ROAD N.E.  
ELEVATION = 5160.60 FT (M.S.L.D.)

**LEGEND**

- POST
- SANITARY SEWER MANHOLE
- STREET LIGHT
- STREET LIGHT
- SIGN
- SIGN
- ELECTRIC POLE
- WATER VALVE
- FIRE HYDRANT
- WATER METER
- TELEPHONE PEDESTAL
- EXISTING CONTOUR
- EXISTING SPOT ELEVATION
- EXISTING TOP OF CONCRETE
- EXISTING FLOW LINE
- EXISTING TOP OF ASPHALT
- EXISTING TOP OF SIDEWALK

**KEYED NOTES**

- ① ✓ NEATLY SAWCUT, REMOVE & DISPOSE OF EXISTING CONCRETE SIDEWALK.
- ② ✓ NEATLY SAWCUT, REMOVE & DISPOSE OF EXISTING CURB & GUTTER.
- ③ ✓ REMOVE & RETURN EXISTING SIGN.
- ④ ✓ NEATLY SAWCUT, REMOVE & DISPOSE EXISTING ASPHALT PAVING.
- ⑤ ✓ REMOVE & RELOCATE EXISTING CHAINLINK FENCE.
- ⑥ REMOVAL LIMIT.

**CERTIFICATION**  
As indicated by the as-built information shown hereon, this project has been graded and drained in substantial compliance with the approved Plan. The as-built information shown hereon has been obtained by me or under my direct supervision and is true and correct to the best of my knowledge and belief.

Jeffrey G. Mortensen, NMPE 8547 Date 03-24-97

**INDEX OF DRAWINGS**

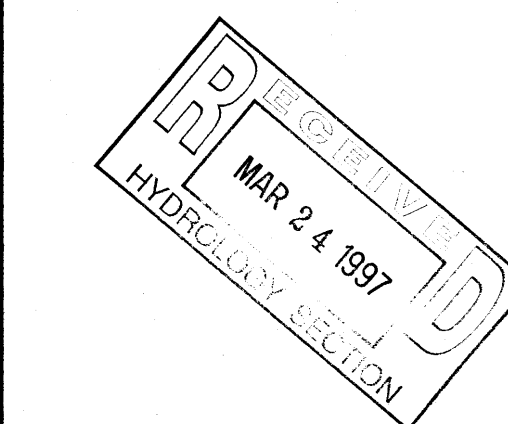
| SHEET NO. | DESCRIPTION                                |
|-----------|--|
| 1         | DEMOLITION PLAN                            |
| 2         | GRADING AND PAVING PLAN                    |
| 3         | DRAINAGE PLAN, SECTIONS, DETAILS AND NOTES |

BRATTON HALL  
PARKING LOT

STANFORD DR. NE

MOUNTAIN ROAD NE

COUNTY HEALTH



JEFF MORTENSEN & ASSOCIATES, INC.  
6000-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
ENGINEERS SURVEYORS (SOS) 345-4250

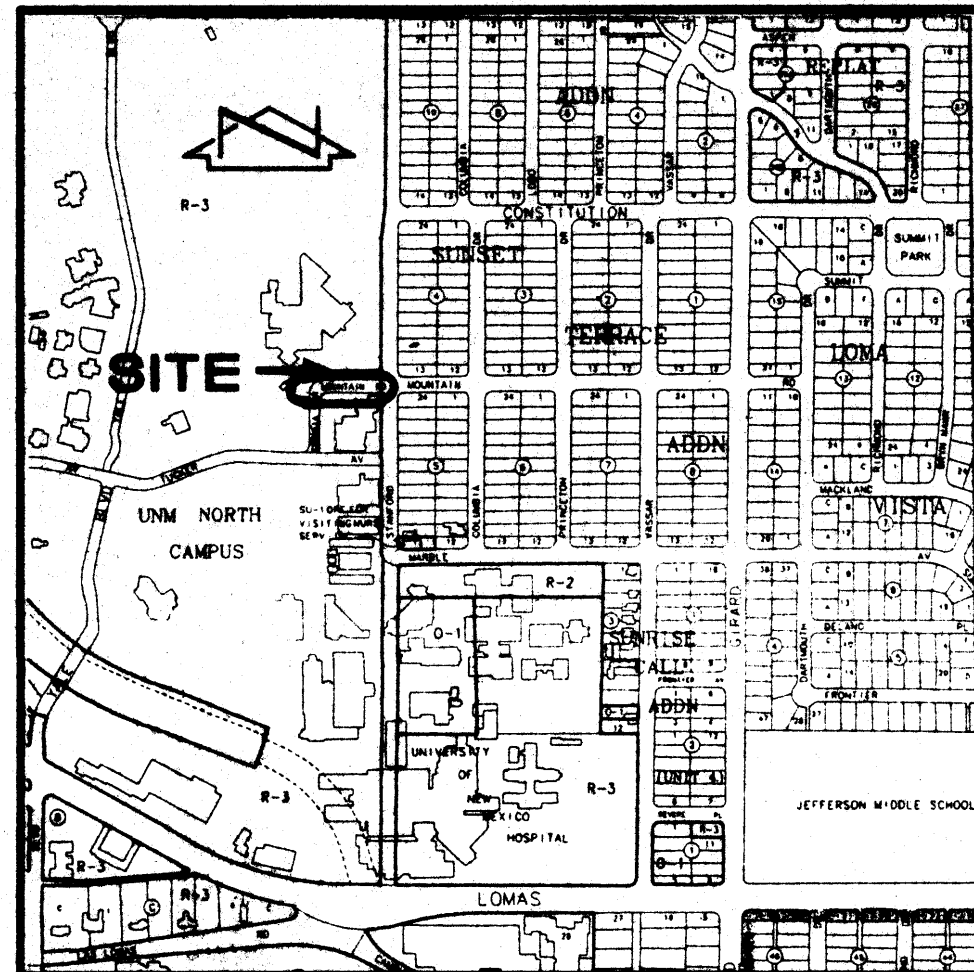
**RECORD DRAWING**

**DEMOLITION PLAN  
MOUNTAIN ROAD CLOSURE**

DESIGNED BY J.G.M.  
DRAWN BY C.J.H./T.N.T.  
APPROVED BY J.G.M.

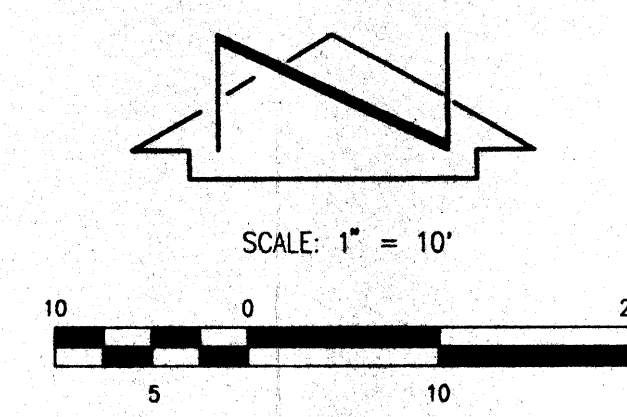
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|-----|-------|-----|--------------------|--------------|
| 1   | 02/97 | MDS | AS-BUILT & CERTIFY | 960691       |
|     |       |     |                    | DATE 07-1996 |
|     |       |     |                    | SHEET 1 OF 3 |





VICINITY MAP  
SCALE: 1" = 750'

J-16



LEGAL DESCRIPTION

UNM NORTH CAMPUS  
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CITY OF ALBUQUERQUE CONTROL MONUMENT (6-J16)  
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AS - BUILT LEGEND

- TC 60.62 AS-BUILT SPOT ELEVATION
- TA 60.03 AS-BUILT ELEVATION
- TC 60.94 AS-BUILT ELEVATION
- FL 60.32 AS-BUILT = AS - DESIRED

LEGEND

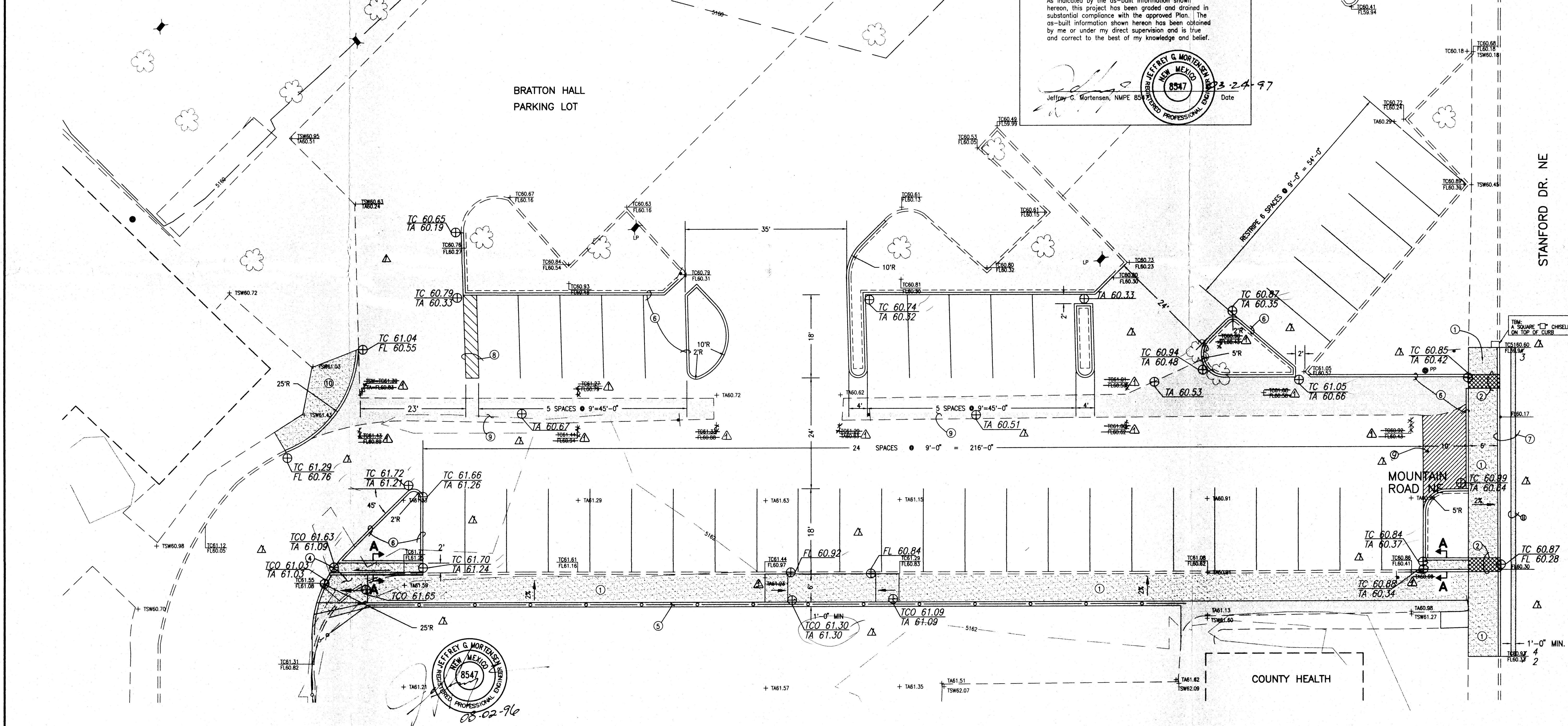
- POST
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- FIRE HYDRANT
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- EXISTING TOP OF CONCRETE
- EXISTING FLOW LINE
- EXISTING TOP OF ASPHALT
- EXISTING TOP OF SIDEWALK
- TREES/VEGETATION
- PROPOSED CONTOUR
- PROPOSED SPOT ELEVATION
- PROPOSED FLOW DIRECTION
- NEW ASPHALT
- NEW CONCRETE

KEYED NOTES:

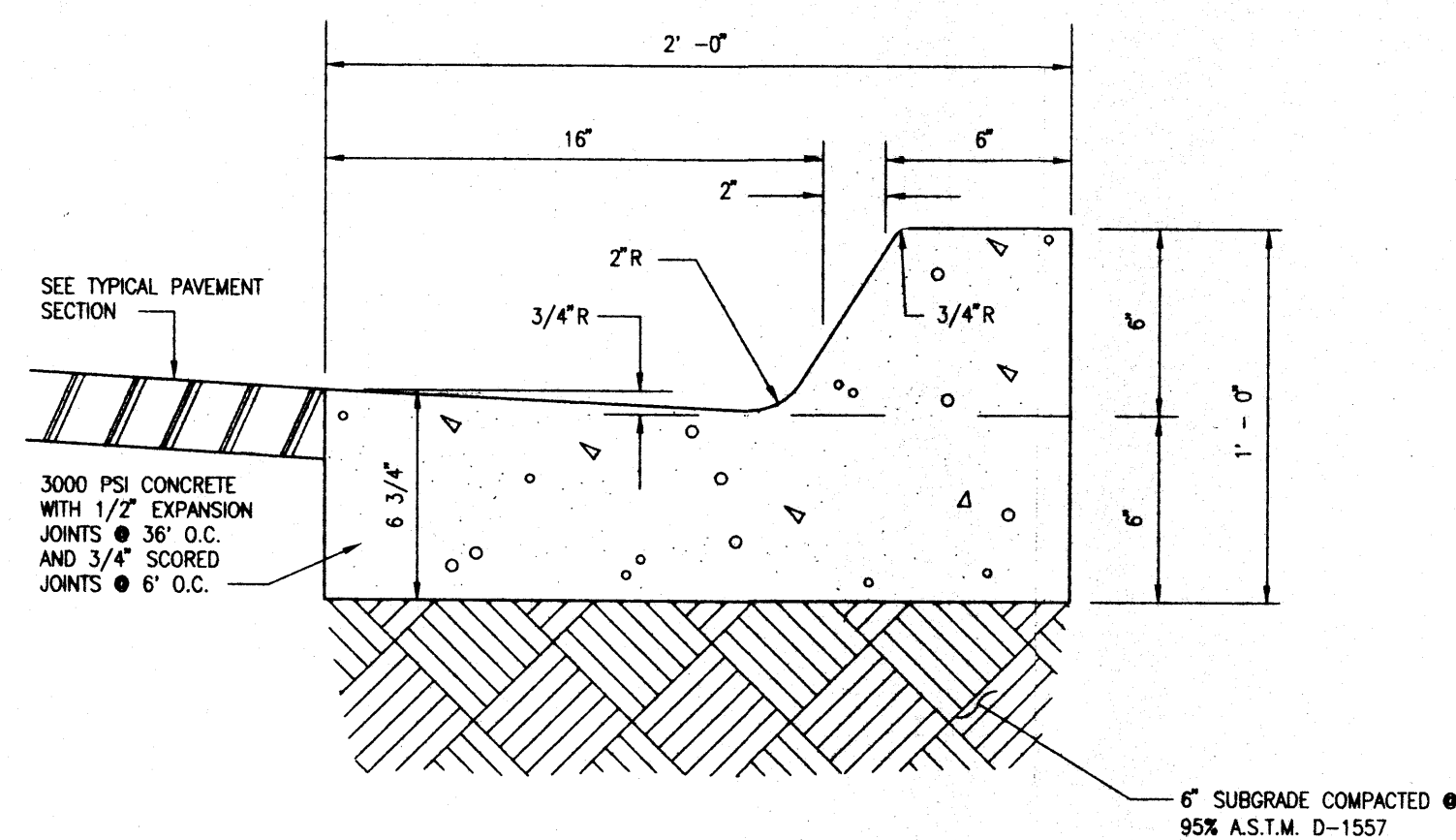
- CONSTRUCT 6" CONCRETE SIDEWALK PER C.O.A. STD. DWG. 2430.
- CONSTRUCT 24" SIDEWALK CULVERT PER C.O.A. STD. DWG. 2236.
- CONSTRUCT CONCRETE RUNDOWN PER SECTION A-A.
- CONSTRUCT WHEELCHAIR RAMP.
- INSTALL RELOCATED CHAINLINK FENCE.
- CONSTRUCT 6" EXTRUDED CONCRETE CURB.
- CONSTRUCT STANDARD CURB & GUTTER PER C.O.A. STD. DWG. 2415; PATCH RESIDENTIAL PAVING PER C.O.A. STD. DWG. 2465 (1' MIN. WIDTH).
- PAINT CROSSHATCH STRIPING (WHITE TRAFFIC PAINT).
- CONSTRUCT NEW ASPHALT PAVING PER TYPICAL SECTION.
- CONSTRUCT NEW CONCRETE SIDEWALK WITH CURB & GUTTER RETURN.
- ASPHALT PATCH PER C.O.A. STD. DWG. 2465.

CERTIFICATION  
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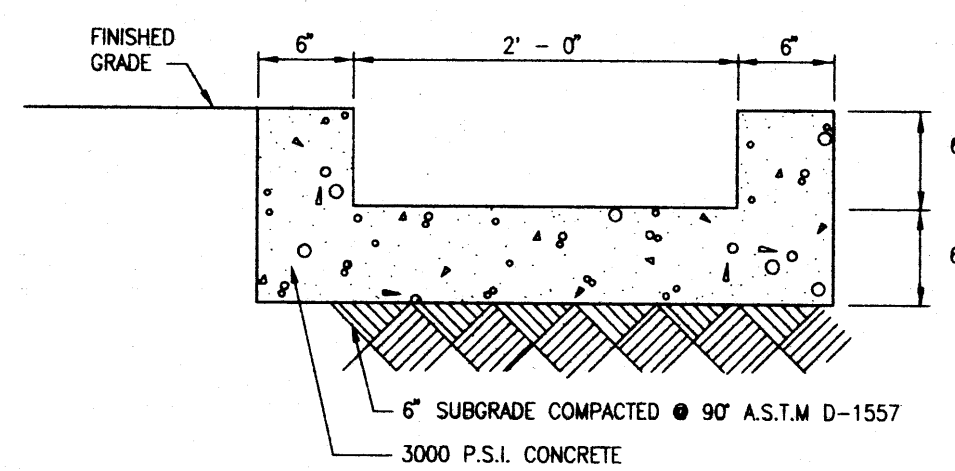
Jeffrey G. Mortensen, NMPE 8547  
Date 03-24-97



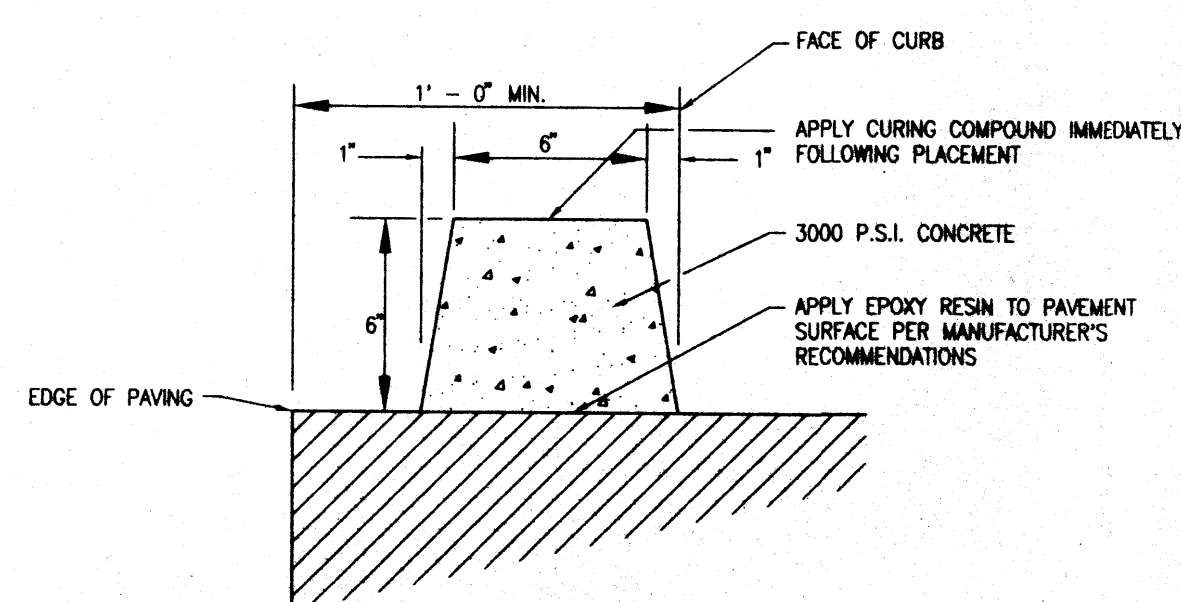




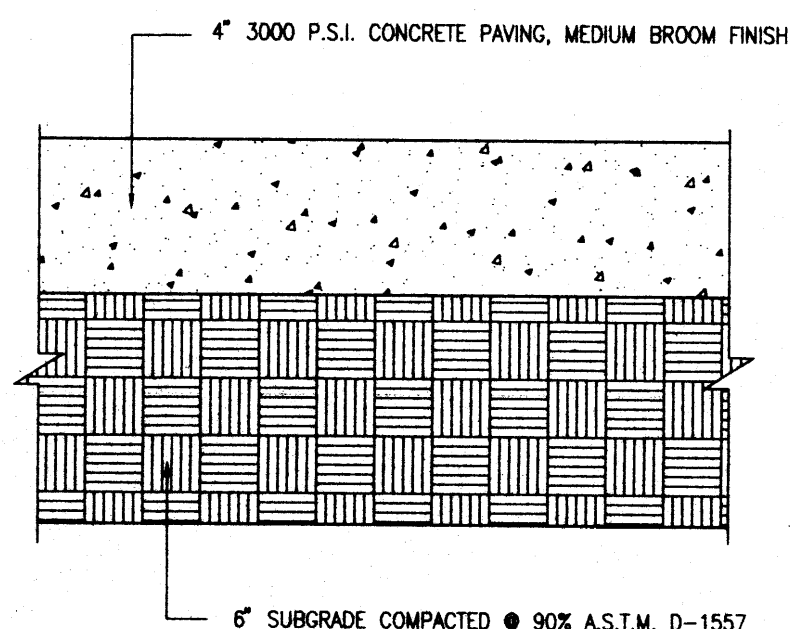
**TYPICAL SIX-INCH CURB & GUTTER**  
SCALE: 1" = 6"



**SECTION A-A**  
SCALE: 1" = 1'-0"



**TYPICAL EXTRUDED CONCRETE CURB SECTION**  
SCALE: 1" = 6"



**TYPICAL CONCRETE SIDEWALK SECTION**  
SCALE: 1" = 5"

#### DRAINAGE PLAN

The following items concerning the Mountain Road Closure Drainage Plan are contained herein:

1. Vicinity Map
2. Demolition Plan
3. Grading and Paving Plan
4. Sections and Details

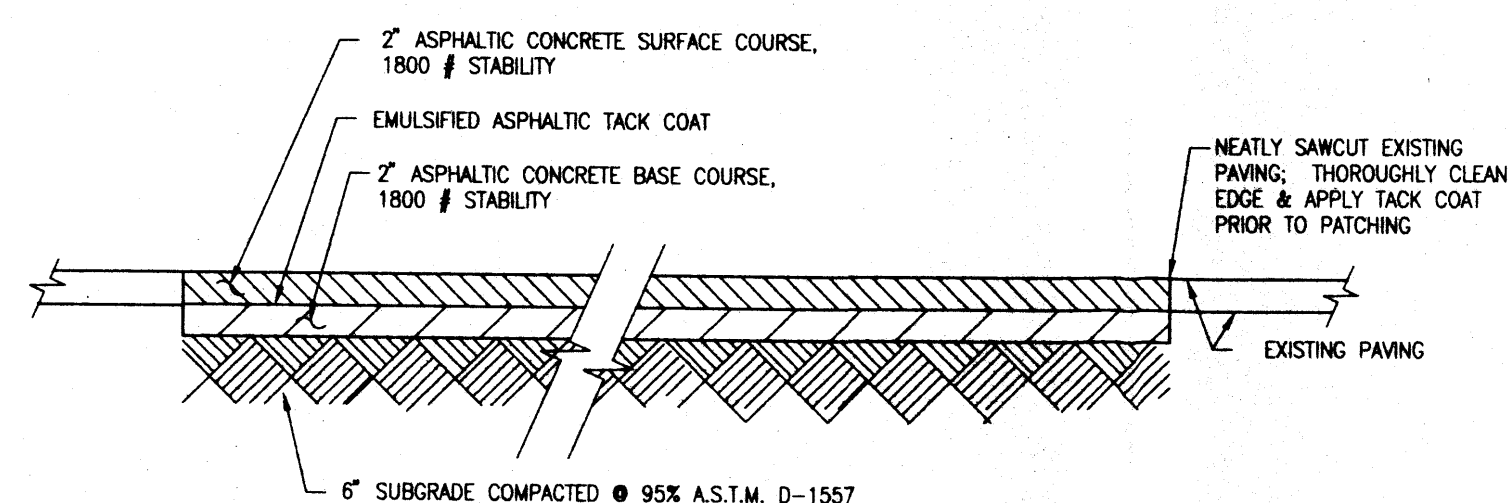
As shown by the Vicinity Map, the site is located along the east edge of the UNM North Campus. More particularly, the site is located just west of the intersection of Stanford Drive N.E. and Mountain Road N.E. The site lies within University property.

As shown by Panel 29 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, this site does not lie within a designated flood hazard zone. The ultimate outfall for runoff generated by this site is the AMAFCA North Diversion Channel which bears a Zone "A" designation with the qualification that "100-year flood confined to constructed channel".

The Demolition Plan shows the existing improvements within the project limits. This plan clearly demonstrates that the site is presently a private road which connects to Stanford Drive N.E. and the Bratton Hall parking lot. The plan further identifies the extent of improvements to be removed to accomplish the proposed closure of the private portion of Mountain Road.

The Grading and Paving Plan shows the limit and character of the proposed improvements. As shown by this plan, no additional impervious area is being created. That paving which will be removed will either be replaced with impervious area or planter area to serve as an expansion of the existing landscaping. Inasmuch, no additional runoff will be generated. The closure of private Mountain Road at the Stanford Drive intersection will not introduce any adverse drainage conditions as two 24" sidewalk culverts are proposed. Those culverts will align with the existing flow line of the private paving. Each sidewalk

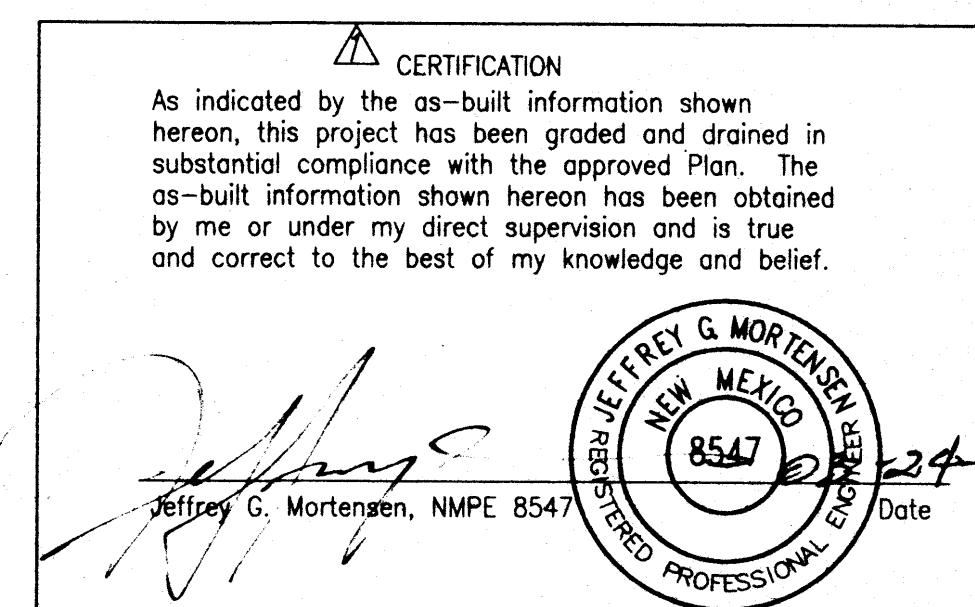
culvert will have a 1.8 cfs weir capacity. Using the equation of  $Q = CLH^{3/2} / S^{1/2}$  where  $C = 2.6$ ,  $L = 2.0$  and  $H = 1.5$ . The two culverts have a combined capacity of 3.6 cfs. This corresponds to an area of 0.77 acres which is 100% impervious (Treatment D) in Zone 2 ( $3.6/4.70 = 0.77$  acres). The contributing area is approximately 44 feet wide and 200 feet long which corresponds to 0.2 acres. This analysis clearly demonstrates that the two sidewalk culverts proposed have adequate capacity.



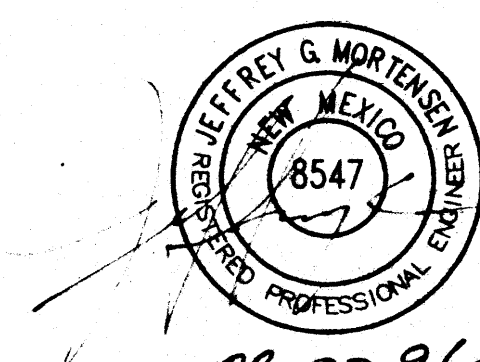
**TYPICAL PRIVATE PAVING SECTION**  
SCALE: 1" = 1'-0"

#### CONSTRUCTION NOTES:

1. 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 NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 280-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), AND U.N.M. PHYSICAL PLANT (277-2421). FOR LOCATION OF EXISTING UTILITIES.
3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFOR. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AND FACILITIES DURING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
7. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING AND MAINTAINING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
8. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
9. CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
10. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE 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.
11. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.
12. IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
13. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
14. A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
16. THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
17. ALL DIMENSIONS AND RADII OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL.
18. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO STRIPING SO THAT LAYOUT CAN BE VERIFIED.
19. ALL FILL MATERIAL SHALL BE FREE FROM VEGETATION, DEBRIS AND OTHER DELETERIOUS MATERIALS.
20. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED.
21. ALL EXISTING UTILITIES ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO GRADE AND CONSIDERED INCIDENTAL TO CONSTRUCTION.
22. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
23. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.
24. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
25. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
26. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.



| APPROVALS     | NAME | DATE |
|---------------|------|------|
| A.C.E./DESIGN |      |      |
| INSPECTOR     |      |      |
| A.C.E./FIELD  |      |      |



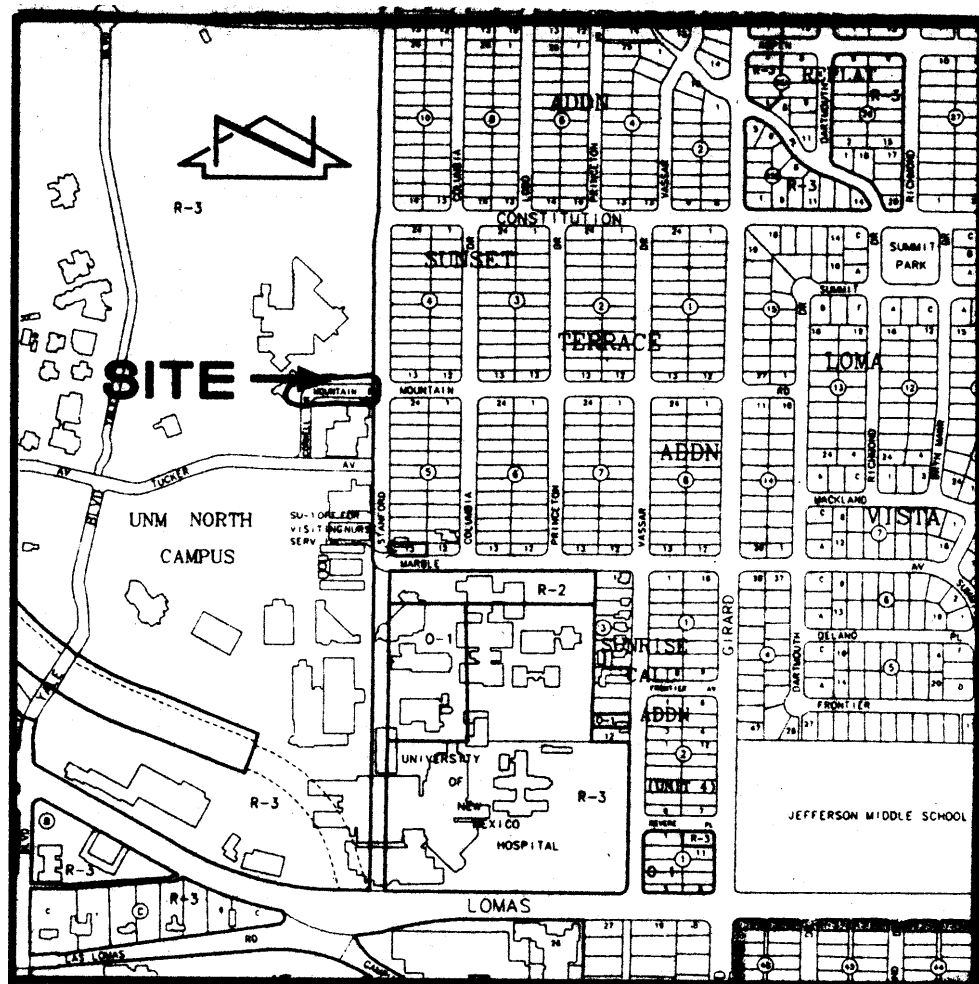
JEFF MORTENSEN & ASSOCIATES, INC.  
6010-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
ENGINEERS SURVEYORS (505) 345-4250

**RECORD DRAWING**

**DRAINAGE PLAN, SECTIONS, DETAILS AND NOTES  
MOUNTAIN ROAD CLOSURE**

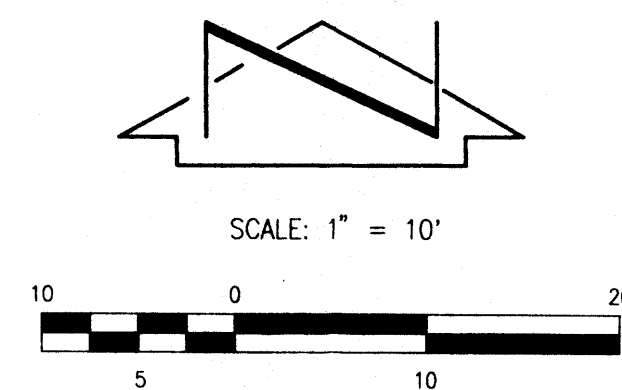
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| DESIGNED BY | J.G.M. | NO. | DATE  | BY  | REVISIONS          | JOB NO. |
| DRAWN BY    | C.J.H. | 1   | 02/97 | MDS | AS-BUILT & CERTIFY | 960691  |
| APPROVED BY | J.G.M. |     |       |     |                    | DATE    |
|             |        |     |       |     |                    | 07/96   |
|             |        |     |       |     |                    | SHEET   |
|             |        |     |       |     |                    | 3 OF 3  |





VICINITY MAP  
SCALE: 1" = 750'

J-16



### LEGAL DESCRIPTION

PORTION OF UNM NORTH CAMPUS NW 1/4 SW 1/4  
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MOUNTAIN ROAD NE

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JEFF MORTENSEN & ASSOCIATES, INC.  
4010-B MIDWAY PARK BLVD. N.E.  
ALBUQUERQUE, N.M. 87109  
ENGINEERS & SURVEYORS (S20) 345-4250

## DEMOLITION PLAN MOUNTAIN ROAD CLOSURE

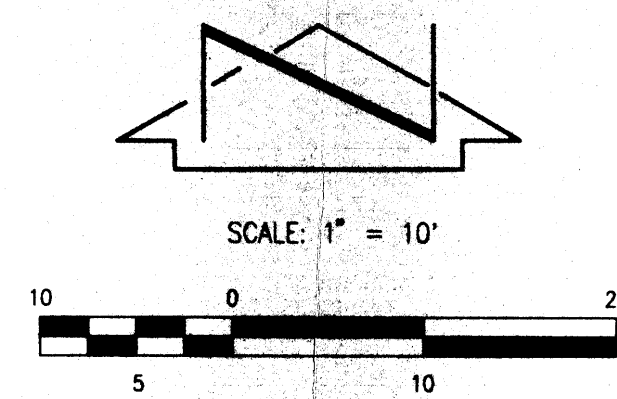
DESIGNED BY: J.G.M.  
DRAWN BY: C.J.H./T.N.T.  
APPROVED BY: J.G.M.

| NO. | DATE | BY | REVISIONS | JOB NO. |
|-----|------|----|-----------|---------|
|     |      |    | 1         | 960691  |
|     |      |    |           | DATE    |
|     |      |    |           | 07-1996 |
|     |      |    |           | SHEET   |
|     |      |    |           | 1 OF 3  |



VICINITY MAP  
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J-16



### LEGAL DESCRIPTION

UNM NORTH CAMPUS

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BRATTON HALL  
PARKING LOT

STANFORD DR. NE

MOUNTAIN  
ROAD NE

COUNTY HEALTH



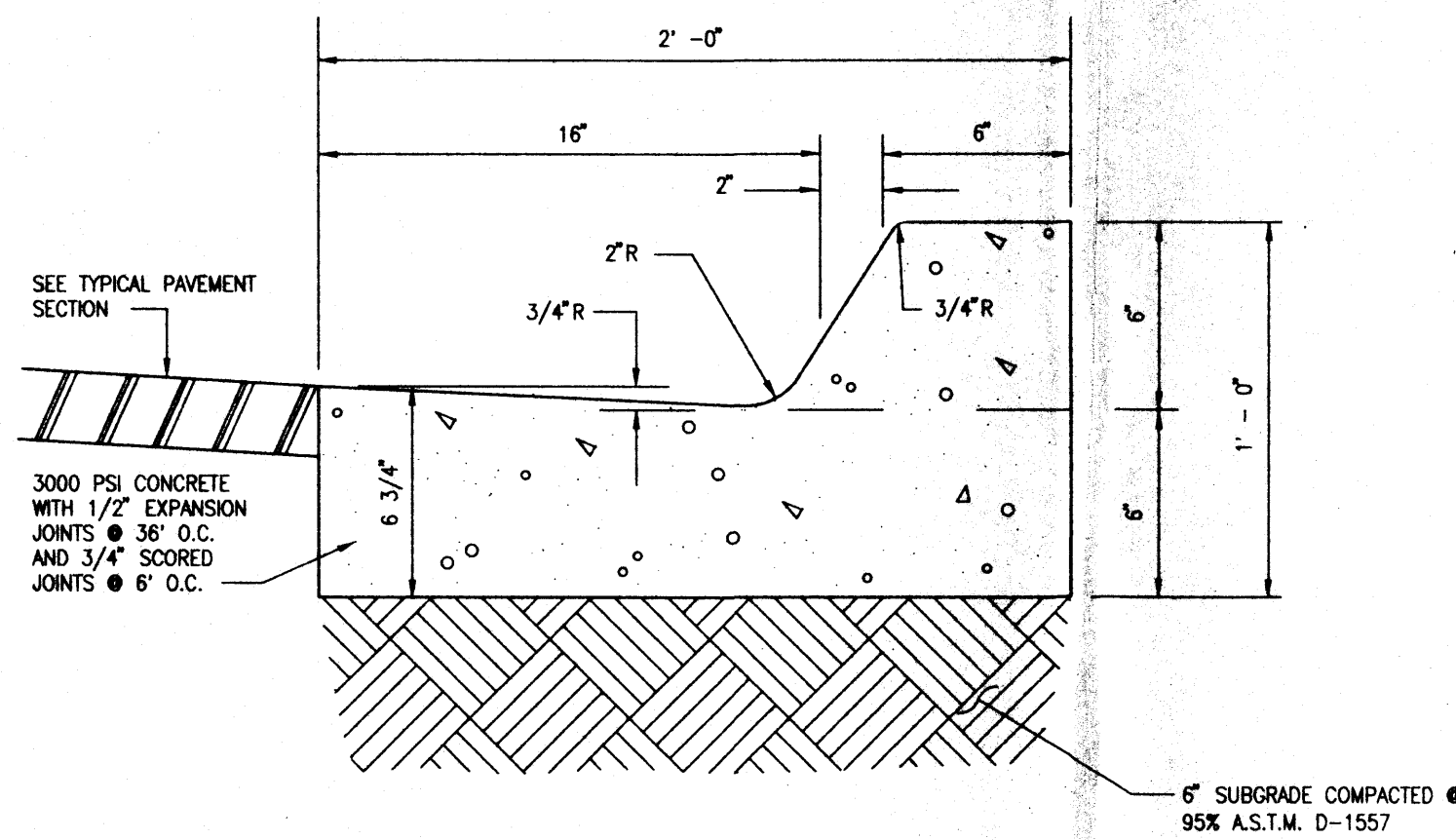
JEFF MORTENSEN & ASSOCIATES, INC.  
4000-B MIDWAY PARK BLVD. NE  
ALBUQUERQUE, NEW MEXICO 87109  
ENGINEERS & SURVEYORS (S95) 345-4250

## GRADING AND PAVING PLAN MOUNTAIN ROAD CLOSURE

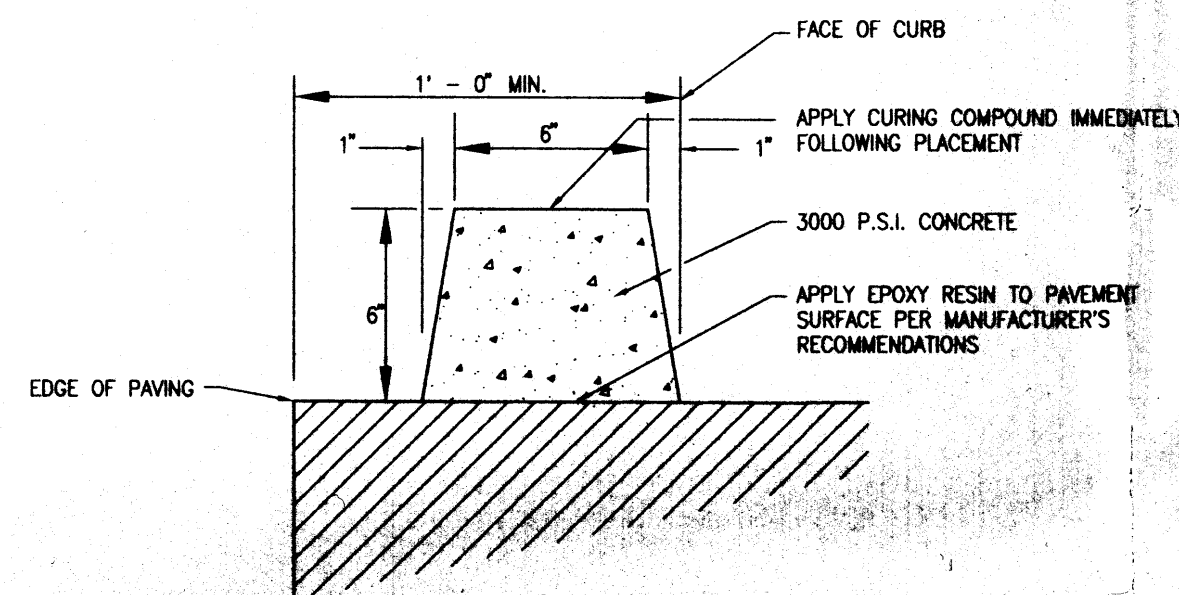
DESIGNED BY J.G.M.  
DRAWN BY C.J.H./T.N.T.  
APPROVED BY J.G.M.

| NO. | DATE | BY | REVISIONS | JOB NO.      |
|-----|------|----|-----------|--------------|
|     |      |    |           | 960691       |
|     |      |    |           | DATE 07-1996 |
|     |      |    |           | SHEET 2 OF 3 |

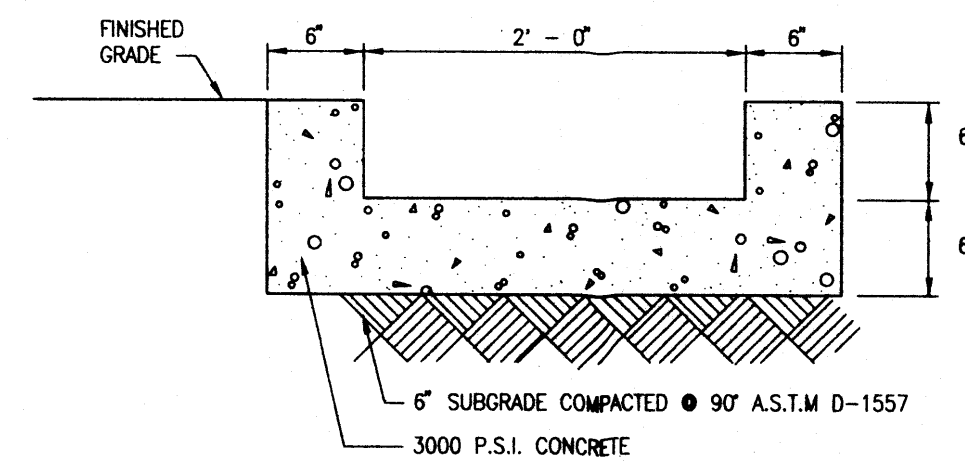




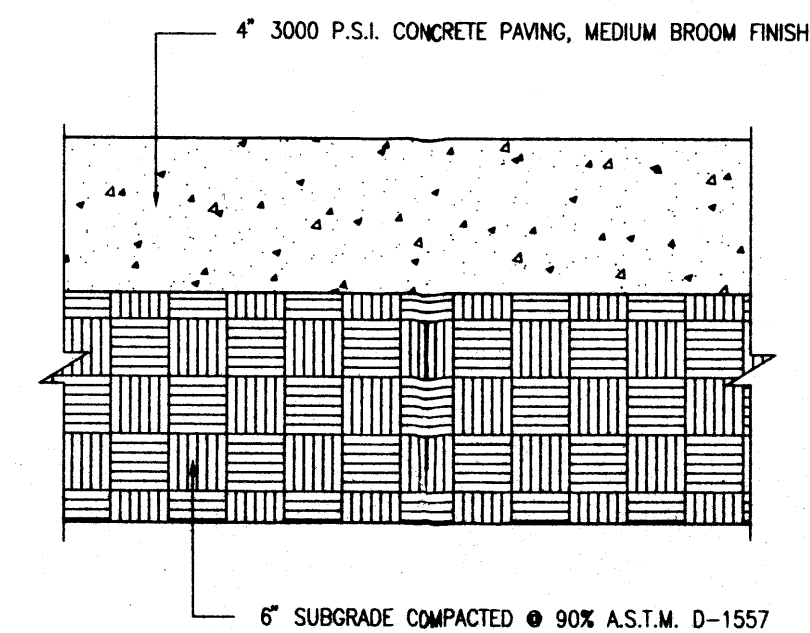
**TYPICAL SIX-INCH CURB & GUTTER**  
SCALE: 1" = 6"



**TYPICAL EXTRUDED CONCRETE CURB SECTION**  
SCALE: 1" = 6"



**SECTION A-A**  
SCALE: 1" = 1'-0"



**TYPICAL CONCRETE SIDEWALK SECTION**  
SCALE: 1" = 5"

#### DRAINAGE PLAN

The following items concerning the Mountain Road Closure Drainage Plan are contained herein:

1. Vicinity Map
2. Demolition Plan
3. Grading and Paving Plan
4. Sections and Details

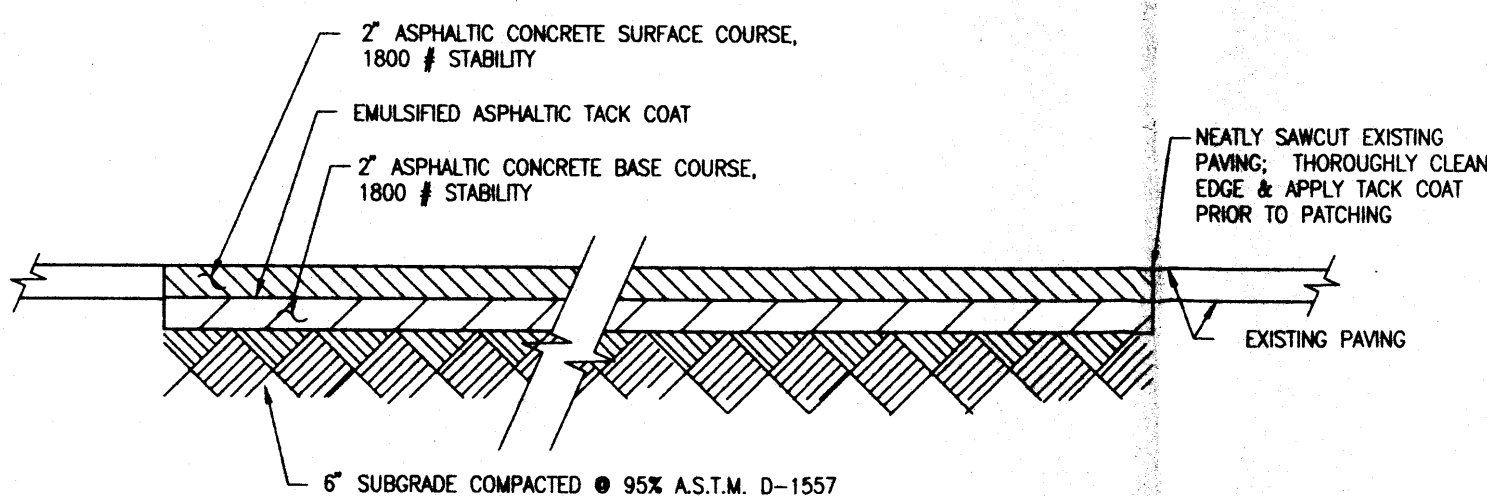
As shown by the Vicinity Map, the site is located along the east edge of the UNM North Campus. More particularly, the site is located just west of the intersection of Stanford Drive N.E. and Mountain Road N.E. The site lies within University property.

As shown by Panel 29 of 50 of the National Flood Insurance Program Flood Insurance Rate Maps published by F.E.M.A. for the City of Albuquerque, New Mexico dated October 14, 1983, this site does not lie within a designated flood hazard zone. The ultimate outfall for runoff generated by this site is the AMAFCA North Diversion Channel which bears a "A" designation with the qualification that "100-year flood confined to constructed channel".

The Demolition Plan shows the existing improvements within the project limits. This plan clearly demonstrates that the site is presently a private road which connects to Stanford Drive N.E. and the Bratton Hall parking lot. The plan further identifies the extent of improvements to be removed to accomplish the proposed closure of the private portion of Mountain Road.

The Grading and Paving Plan shows the limit and character of the proposed improvements. As shown by this plan, no additional impervious area is being created. That paving which will be removed will either be replaced with impervious area or planter area to serve as an expansion of the existing landscaping. Inasmuch, no additional runoff will be generated. The closure of private Mountain Road at the Stanford Drive intersection will not introduce any adverse drainage conditions as two 24" sidewalk culverts are proposed. Those culverts will align with the existing flow line of the private paving. Each sidewalk

culvert will have a 1.8 cfs weir capacity. Using the equation of  $Q = CLH^{3/2}$  where  $C = 2.6$ ,  $L = 2.0$  and  $H = 1.5$ . The two culverts have a combined capacity of 3.6 cfs. This corresponds to an area of 0.77 acres which is 100% impervious (Treatment D) in Zone 2 ( $3.6/4.70 = 0.77$  acres). The contributing area is approximately 44 feet wide and 200 feet long which corresponds to 0.2 acres. This analysis clearly demonstrates that the two sidewalk culverts proposed have adequate capacity.

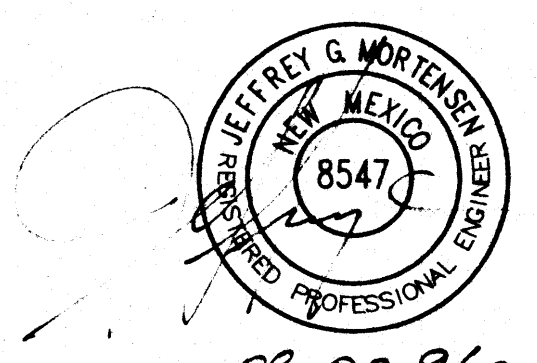


**TYPICAL PRIVATE PAVING SECTION**  
SCALE: 1" = 1'-0"

#### CONSTRUCTION NOTES:

1. 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 NEW MEXICO STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION - 1987, PUBLISHED BY THE NEW MEXICO CHAPTER AMERICAN PUBLIC WORKS ASSOCIATION.
2. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT NEW MEXICO ONE CALL SYSTEM, 260-1990 (ALBUQUERQUE AREA), 1-800-321-ALERT(2537) (STATEWIDE), AND U.N.M. PHYSICAL PLANT (277-2421). FOR LOCATION OF EXISTING UTILITIES.
3. IF ANY UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES ARE SHOWN ON THESE DRAWINGS, THEY ARE SHOWN IN AN APPROXIMATE MANNER ONLY, AND SUCH LINES MAY EXIST WHERE NONE ARE SHOWN. IF ANY SUCH EXISTING LINES ARE SHOWN, THE LOCATION IS BASED UPON INFORMATION PROVIDED BY THE OWNER OF SAID UTILITY, AND THE INFORMATION MAY BE INCOMPLETE, OR MAY BE OBSOLETE BY THE TIME CONSTRUCTION COMMENCES. THE ENGINEER HAS CONDUCTED ONLY PRELIMINARY INVESTIGATION OF THE LOCATION, DEPTH, SIZE, OR TYPE OF EXISTING UTILITY LINES, PIPELINES, OR UNDERGROUND UTILITY LINES. THIS INVESTIGATION IS NOT CONCLUSIVE, AND MAY NOT BE COMPLETE, THEREFORE, MAKES NO REPRESENTATION PERTAINING THERETO, AND ASSUMES NO RESPONSIBILITY OR LIABILITY THEREFORE. THE CONTRACTOR SHALL INFORM ITSELF OF THE LOCATION OF ANY UTILITY LINE, PIPELINE, OR UNDERGROUND UTILITY LINE IN OR NEAR THE AREA OF THE WORK IN ADVANCE OF AND DURING EXCAVATION WORK. THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE CAUSED BY ITS FAILURE TO LOCATE, IDENTIFY AND PRESERVE ANY AND ALL EXISTING UTILITIES, PIPELINES, AND UNDERGROUND UTILITY LINES. IN PLANNING AND CONDUCTING EXCAVATION, THE CONTRACTOR SHALL COMPLY WITH STATE STATUTES, MUNICIPAL AND LOCAL ORDINANCES, RULES AND REGULATIONS, IF ANY, PERTAINING TO THE LOCATION OF THESE LINES AND FACILITIES.
4. SHOULD A CONFLICT EXIST BETWEEN THESE PLANS AND ACTUAL FIELD CONDITIONS, THE CONTRACTOR SHALL PROMPTLY NOTIFY THE ENGINEER IN WRITING SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR ALL PARTIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL INTERPRETATIONS IT MAKES WITHOUT FIRST CONTACTING THE ENGINEER AS REQUIRED ABOVE.
5. THE CONTRACTOR SHALL MAINTAIN ACCESS TO ADJACENT PROPERTIES AND FACILITIES DURING CONSTRUCTION.
6. ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING SAFETY AND HEALTH.
7. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE SITE INTO PUBLIC RIGHT-OF-WAY OR ONTO PRIVATE PROPERTY. THIS CAN BE ACHIEVED BY CONSTRUCTING AND MAINTAINING TEMPORARY BERMS AT THE PROPERTY LINES AND WETTING THE SOIL TO KEEP IT FROM BLOWING.
8. THE CONTRACTOR SHALL PROMPTLY CLEAN UP ANY MATERIAL EXCAVATED WITHIN THE PUBLIC RIGHT-OF-WAY SO THAT THE EXCAVATED MATERIAL IS NOT SUSCEPTIBLE TO BEING WASHED DOWN THE STREET.
9. CONTRACTOR SHALL SECURE "TOPSOIL DISTURBANCE PERMIT" PRIOR TO BEGINNING CONSTRUCTION.
10. CONTRACTOR SHALL NOTIFY THE ENGINEER NOT LESS THAN SEVEN (7) DAYS PRIOR TO STARTING WORK IN ORDER THAT THE ENGINEER MAY TAKE NECESSARY MEASURES TO ENSURE THE PRESERVATION OF SURVEY MONUMENTS. CONTRACTOR SHALL NOT DISTURB PERMANENT SURVEY MONUMENTS WITHOUT THE CONSENT OF THE ENGINEER AND SHALL NOTIFY THE ENGINEER AND BEAR THE EXPENSE OF REPLACING ANY THAT MAY BE DISTURBED WITHOUT PERMISSION. REPLACEMENT SHALL BE DONE ONLY BY THE 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.
11. ALL PAVEMENT MARKINGS AND TRAFFIC SIGNS SHALL COMPLY WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION, LATEST EDITION.
12. IF THE REMOVAL OF EXISTING CURB AND GUTTER, SIDEWALK, AND/OR PAVING IS REQUIRED, THE CONTRACTOR SHALL SAWCUT AND/OR REMOVE TO THE NEAREST JOINT. WHEN ABUTTING NEW PAVEMENT TO EXISTING, THE CONTRACTOR SHALL CUT BACK THE EXISTING PAVING TO A STRAIGHT LINE IN ORDER TO REMOVE ANY BROKEN OR CRACKED PAVEMENT. CURB AND GUTTER AND/OR PAVEMENT SHOWN AS EXISTING AND NOT TO BE REMOVED UNDER THIS CONTRACT AND WHICH IS DAMAGED OR DISPLACED BY THE CONTRACTOR SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
13. A DISPOSAL SITE FOR ALL EXCESS EXCAVATION MATERIAL (CONTAMINATED OR OTHERWISE), ASPHALTIC PAVING, CONCRETE PAVING, ETC. SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A DISPOSAL SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
14. A BORROW SITE FOR IMPORT MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE REGULATIONS. ALL COSTS INCURRED IN OBTAINING A BORROW SITE AND IN HAUL THERETO SHALL BE CONSIDERED INCIDENTAL TO CONSTRUCTION, THEREFORE, NO SEPARATE PAYMENT SHALL BE MADE.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SAFELY OBTAINING THE REQUIRED COMPACTION. THE CONTRACTOR SHALL SELECT AND USE METHODS WHICH SHALL NOT BE INJURIOUS OR DAMAGING TO THE EXISTING FACILITIES AND STRUCTURES WHICH SURROUND THE WORK AREAS.
16. THE CONTRACTOR SHALL CONFINE HIS WORK WITHIN THE CONSTRUCTION LIMITS IN ORDER TO PRESERVE THE EXISTING IMPROVEMENTS AND SO AS NOT TO INTERFERE WITH THE OPERATIONS OF THE EXISTING FACILITIES.
17. ALL DIMENSIONS AND RADII OF CURB, CURB RETURNS, AND WALLS ARE SHOWN TO THE FACE OF CURB AND/OR WALL.
18. THE CONTRACTOR SHALL NOTIFY THE OWNER 48 HOURS PRIOR TO STRIPING SO THAT LAYOUT CAN BE VERIFIED.
19. ALL FILL MATERIAL SHALL BE FREE FROM VEGETATION, DEBRIS AND OTHER DELETERIOUS MATERIALS.
20. ALL FILL SHALL BE COMPACTED TO A MINIMUM OF 95% ASTM D-1557 UNLESS A GREATER COMPACTION REQUIREMENT IS OTHERWISE SPECIFIED.
21. ALL EXISTING UTILITIES ENCOUNTERED WITHIN THE WORK LIMITS SHALL BE ADJUSTED TO GRADE AND CONSIDERED INCIDENTAL TO CONSTRUCTION.
22. CAUTION: THESE DRAWINGS DO NOT INCLUDE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY WHICH SHALL REMAIN THE RESPONSIBILITY OF THE CONTRACTOR.
23. ALL WORK WITHIN THE RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH CITY OF ALBUQUERQUE STANDARDS.
24. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
25. BACKFILL COMPACTION SHALL BE ACCORDING TO RESIDENTIAL STREET USE.
26. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.

| APPROVALS     | NAME                 | DATE    |
|---------------|----------------------|---------|
| A.C.E./DESIGN | <i>Barry Montoya</i> | 8/28/91 |
| INSPECTOR     |                      |         |
| A.C.E./FIELD  |                      |         |



08-02-96

| DESIGNED BY | J.G.M. | NO. | DATE | BY | REVISIONS | JOB NO.      |
|-------------|--------|-----|------|----|-----------|--------------|
| DRAWN BY    | C.J.H. |     |      |    |           | 960691       |
| APPROVED BY | J.G.M. |     |      |    |           | DATE 07/96   |
|             |        |     |      |    |           | SHEET 3 OF 3 |