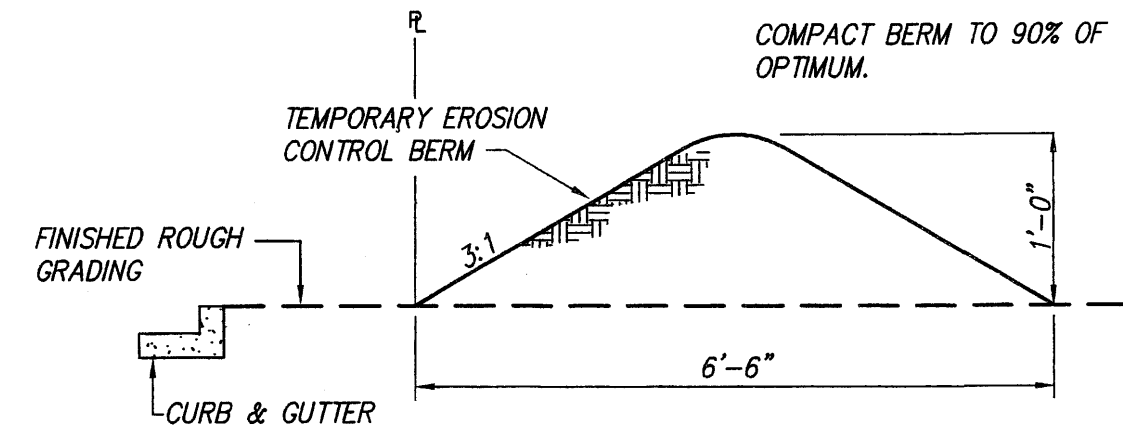


SEE SHEET 1

NOTES



EROSION CONTROL BERM DETAIL

N.T.S.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. EROSION CONTROL BERMS ARE REQUIRED AROUND THE ENTIRE SITE.
5. ALL EROSION CONTROL BERMS MUST BE IN PLACE AND ENGINEER CERTIFIED PRIOR TO BUILDING PERMIT RELEASE.

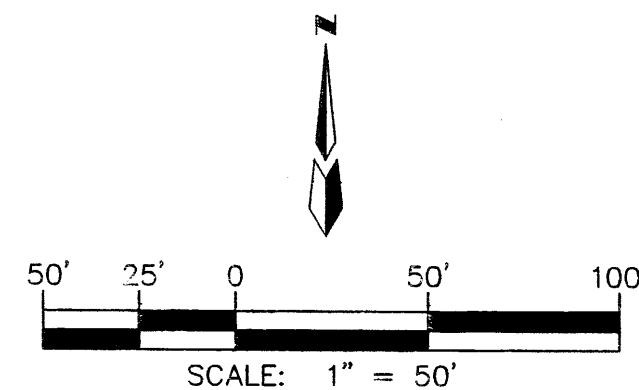
TEMPORARY SOUTH RETENTION POND
TOP AREA=96' x 96' @ ELEV. 5029.0
BOTTOM AREA= 60' x 60' @ ELEV. 5029.0
DEPTH= 6.0'
REQ'D (100 YR) VOLUME=0.835 AC. FT.
DESIGN VOLUME= 0.853 AC. FT.
3:1 SIDE SLOPES

TYPE L RIP-RAP
10' x 10' BLANKET
1.5' DEEP

RECORD DRAWING

I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, Inc., and by the surveyor, Aldrich Land Surveying, Inc., and reflects the construction as actually accomplished. This plan as constructed is in substantial compliance with the Approved Plan.

Diane Hoelzer 7-23-02
Diane Hoelzer, P.E. NMPE 11967



MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **BERNARDO TRAILS - UNIT 1
GRADING AND DRAINAGE PLAN**

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

LAST DESIGN UPDATE

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

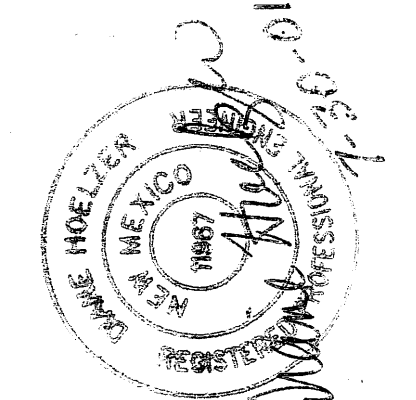
CITY PROJECT NO. **668681**

ZONE MAP NO. **D-16**

SHEET **8** OF **28**

A010020BDN/A01020GD4/07-26-01 DER KJS ACH

ENGINEER'S SEAL



SURVEY INFORMATION

NO.	BY	DATE

BENCH MARKS

STATION MARK IS A STANDARD BRASS TABLET (AMAFCA RIGHT-OF-WAY MARKER) STAMPED "N4+8" SET IN CONCRETE. LOCATED ON THE WEST SIDE OF THE NORTH DIVERSION CHANNEL 0.5 MILES+ NORTH OF OSUNA ROAD. ELEVATION = 5075.6

AS BUILT INFORMATION

CONTRACTOR	DATE
INSPECTOR	DATE
FIELD ENGINEER	DATE
CORRECTION BY	DATE
RECORDED BY	DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

DATE

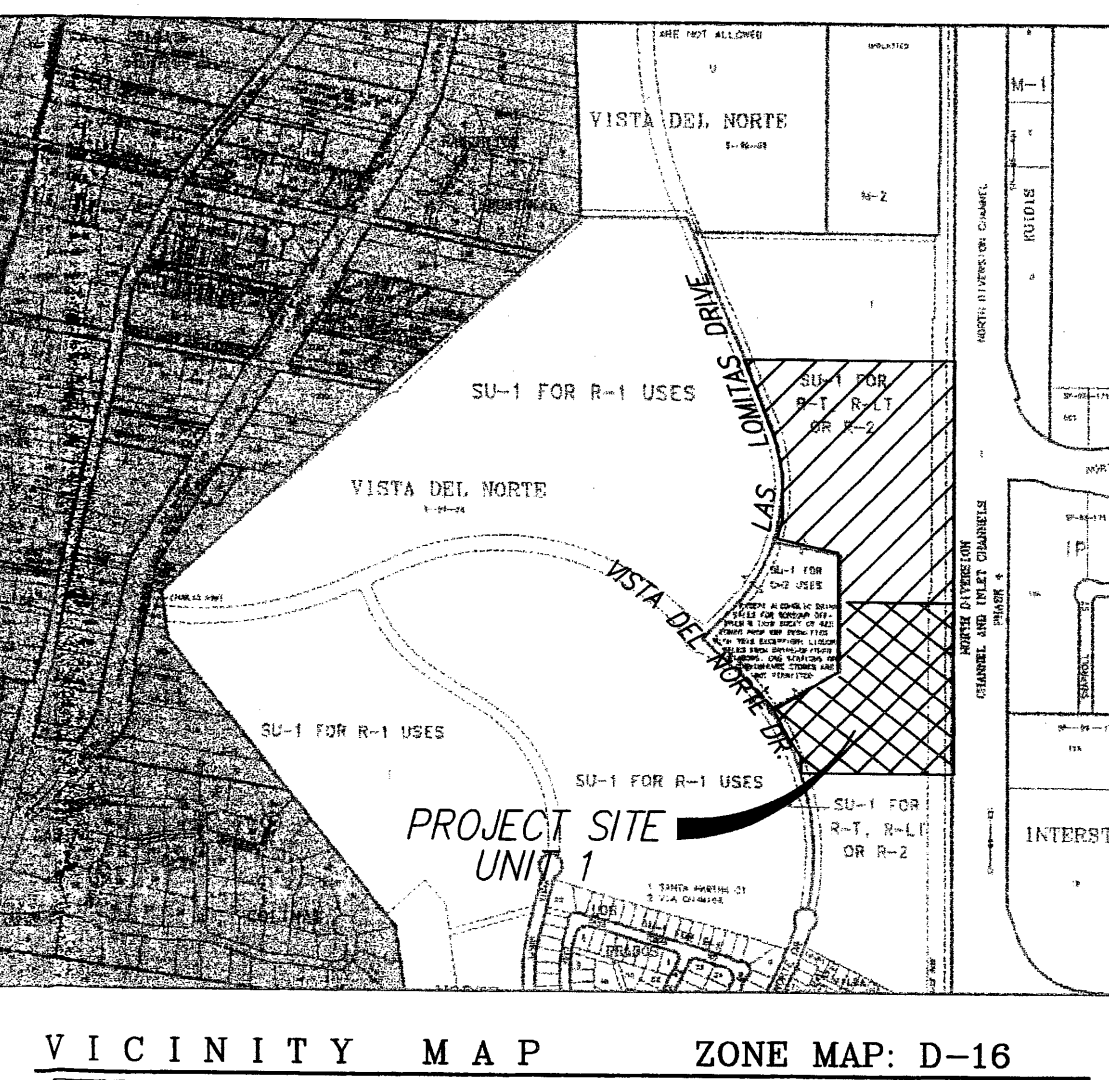
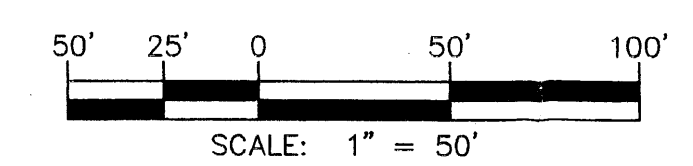
DATE



I hereby certify that the information contained on this drawing has been revised in accordance with information furnished by the contractor, Franklin's Earthmoving, Inc., and by the surveyor, Aldrich Land Surveying, Inc., and reflects the construction as actually accomplished. This plan as constructed is a substantial compliance with the Approved Plan.

Don Hays 7-23-02
Don Hays, PE NMPE 11967

RECORD DRAWING



LEGEND

- | | | | |
|-----------|---------------------------------|----------|---------------------------------|
| FP= 30.38 | FINISHED PAD ELEVATION | - 5135 - | EXISTING CONTOUR |
| ===== | MOUNTABLE CURB & GUTTER | x 00.00 | EXISTING SPOT ELEVATION |
| ===== | STANDARD 8" CURB & GUTTER | - E - | EXISTING OVERHEAD ELECTRIC LINE |
| 28.53 • | PROPOSED SPOT ELEVATION | o | EXISTING POWER POLE |
| 3:1 SLOPE | | --- | TRACT/LOT BOUNDARY |
| 20 | LOT 20 | --- | RIGHT OF WAY |
| ===== | UNIT BOUNDARY | --- | EASEMENTS |
| ===== | WATER BLOCK | --- | CENTERLINE OF ROAD |
| • | PROPOSED STORM DRAIN MH | ===== | NEW RETAINING WALL |
| • | PROPOSED CATCH BASIN | ===== | 50' PAVEMENT TRANSITION |
| • | EXISTING WATER VALVE | ===== | FLOW DIRECTION |
| o | EXISTING SANITARY SEWER MANHOLE | ===== | SWALE |

TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL

N.T.S.
ANY DIFFERENCE IN PAD ELEVATIONS BETWEEN ADJACENT LOTS GREATER THAN 2.7' WILL REQUIRE RETAINING WALLS

NOTES

1. A BLOCK WALL WILL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER PROPERTY BOUNDARY.
2. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 1.3' AND LESS THAN 2.7' A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
3. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.7' A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.

dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **BERNARDO TRAILS - UNIT 1**
GRADING AND DRAINAGE PLAN

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

CITY PROJECT NO. **668682** ZONE MAP NO. **D-16** SHEET **7A** OF **18**

AS BUILT INFORMATION			
CONTRACTOR	DATE	NO.	DATE
STATION MARK IS A STANDARD BRASS TABLET (AMATEC RIGHT-OF-WAY MARKER) STAMPED "M-A-B" SET IN CONCRETE. LOCATED ON THE WEST SIDE OF THE NORTH DIVISION CHANNEL 0.3 MILES ± NORTH OF OSUNA ROAD. ELEVATION = 5075.6			
SURVEY INFORMATION			
FIELD NOTES	NO.	BY	DATE
ENGINEER'S SEAL			
REVISIONS			
NO.	DATE	REMARKS	BY
DESIGNED BY	DATE	05/01	
DRAWN BY	DATE	05/01	
CHECKED BY	DATE	05/01	

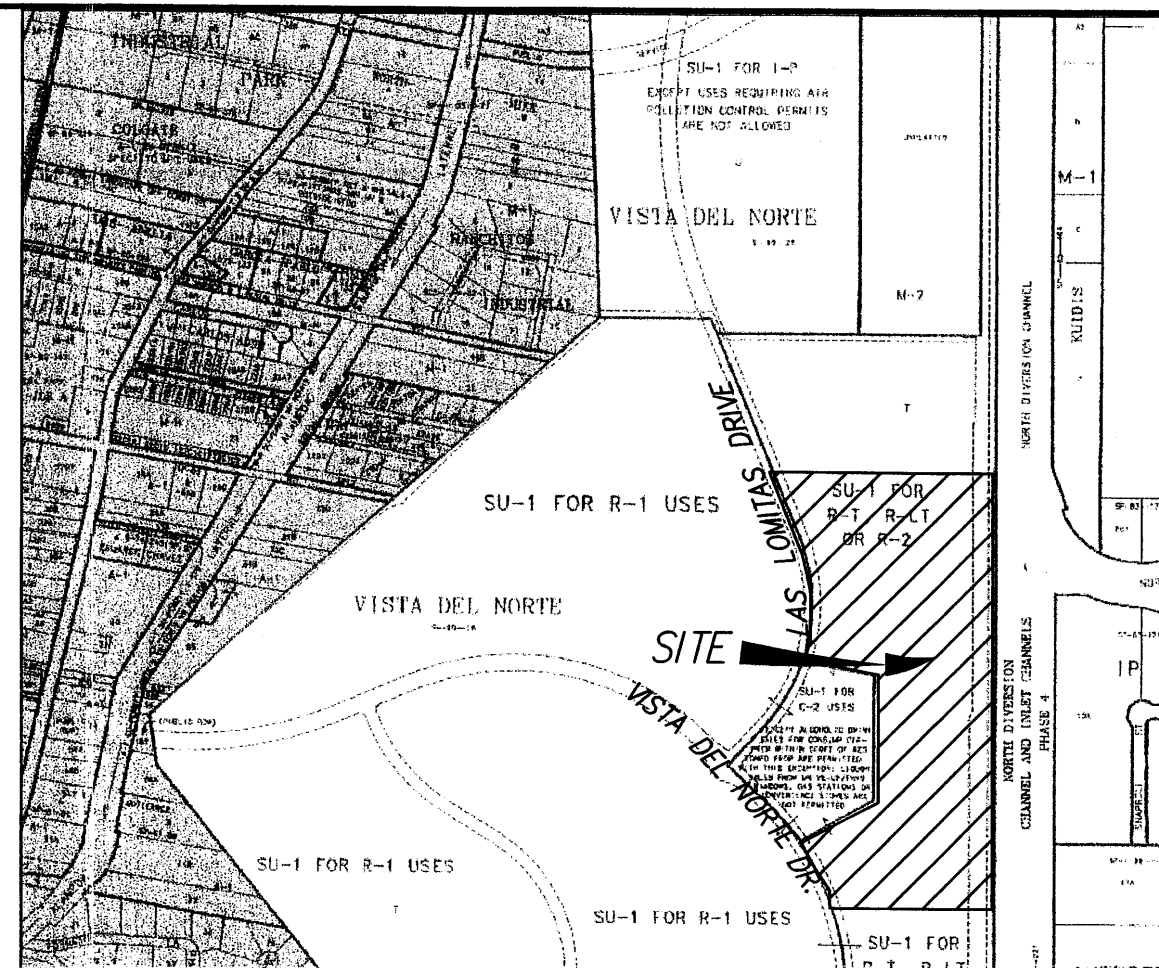
Bernardo Trails Unit 3 Pond Reclamation Lots 1-P1 thru 6-P1
DRAINAGE CERTIFICATION

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 1-31-03. The record information edited onto the original design document has been obtained by Tim Aldrich, NMPS 7719, of the firm Aldrich Land Surveying. I further certify that I have personally visited the project site on March 6, 2003, and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Release of Financial Guarantees.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of this accuracy before using it for any other purpose.

Diane Hoelzer
Diane Hoelzer, PE
NMPE 11967

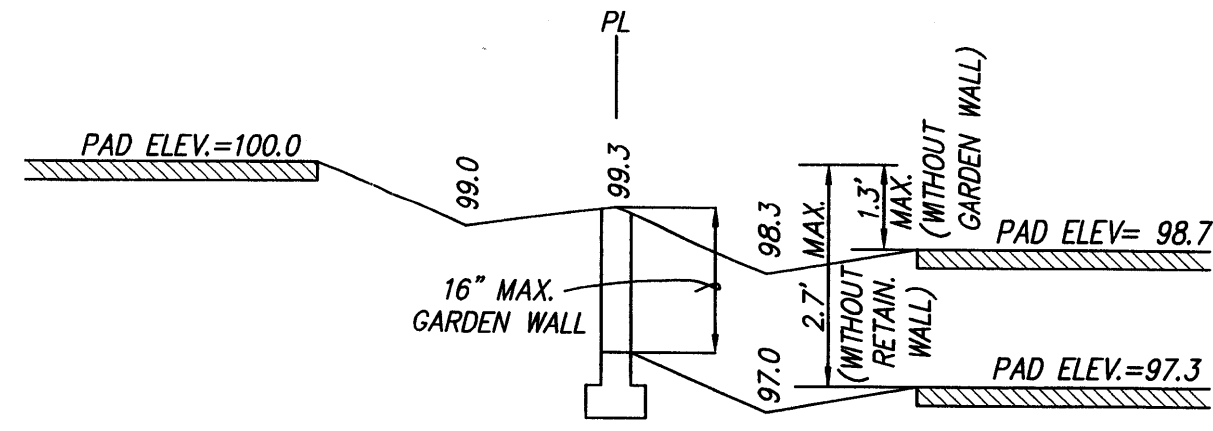
Date 3-20-03



VICINITY MAP ZONE MAP: D-16

LEGEND

- FP= 30.38 FINISHED PAD ELEVATION
- MOUNTABLE CURB & GUTTER
- STANDARD 8" CURB & GUTTER
- 28.53 • PROPOSED SPOT ELEVATION
- 3:1 SLOPE
- 20 LOT 20
- UNIT BOUNDARY
- WATER BLOCK
- PROPOSED STORM DRAIN MH
- PROPOSED CATCH BASIN
- EXISTING WATER VALVE
- EXISTING SANITARY SEWER MANHOLE
- 51.35 — EXISTING CONTOUR
- x 00.00 EXISTING SPOT ELEVATION
- E — EXISTING OVERHEAD ELECTRIC LINE
- EXISTING POWER POLE
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- EASEMENTS
- CENTERLINE OF ROAD
- NEW RETAINING WALL
- 50' PAVEMENT TRANSITION
- FLOW DIRECTION
- SWALE

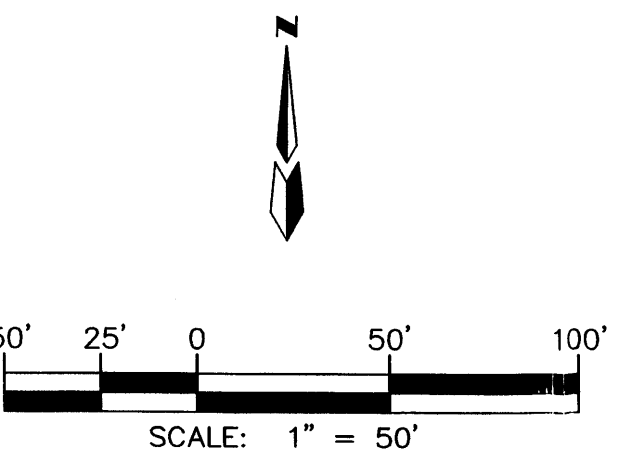


TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL

N.T.S. ANY DIFFERENCE IN PAD ELEVATIONS BETWEEN ADJACENT LOTS GREATER THAN 2.7" WILL REQUIRE RETAINING WALLS

NOTES

1. A BLOCK WALL WILL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER PROPERTY BOUNDARY.
2. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 1.1" AND LESS THAN 2.7" A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
3. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.7" A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.



MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539



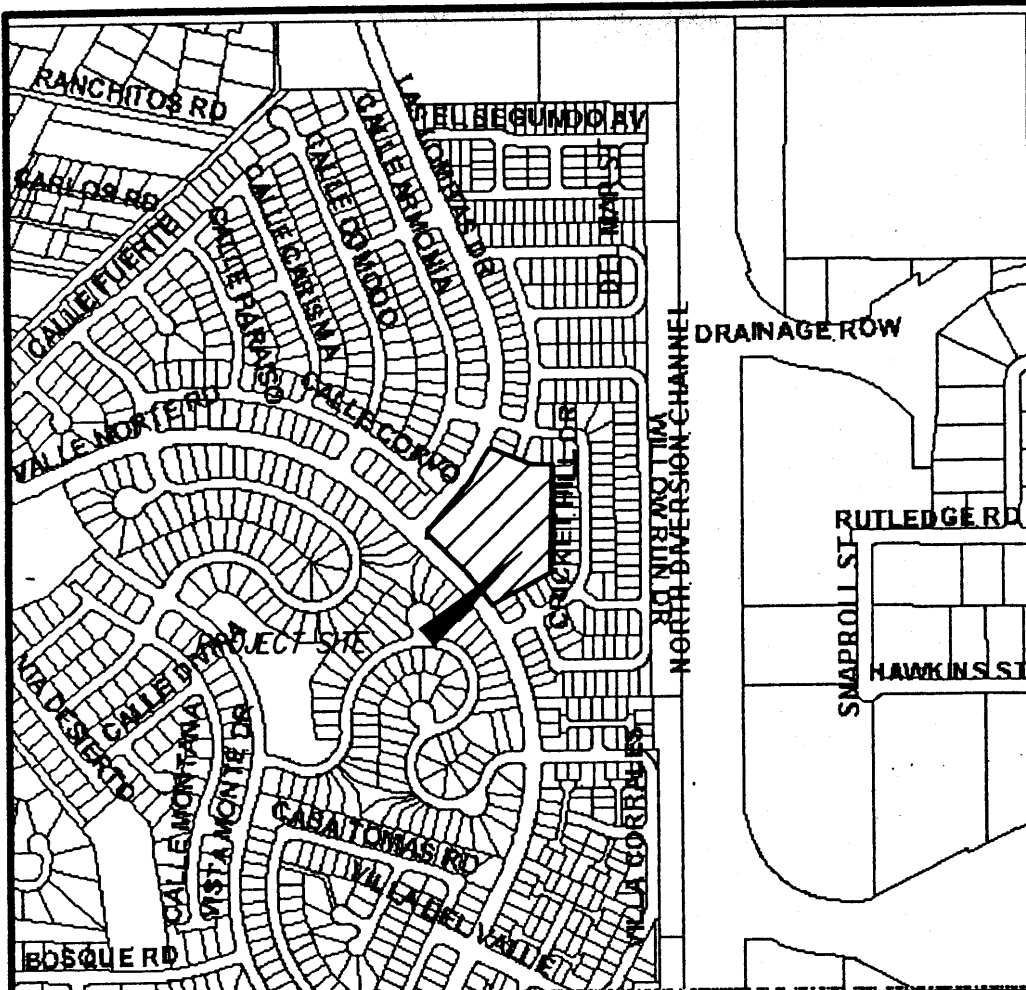
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: BERNARDO TRAILS - UNIT 3
POND RECLAMATION
GRADING AND DRAINAGE PLAN

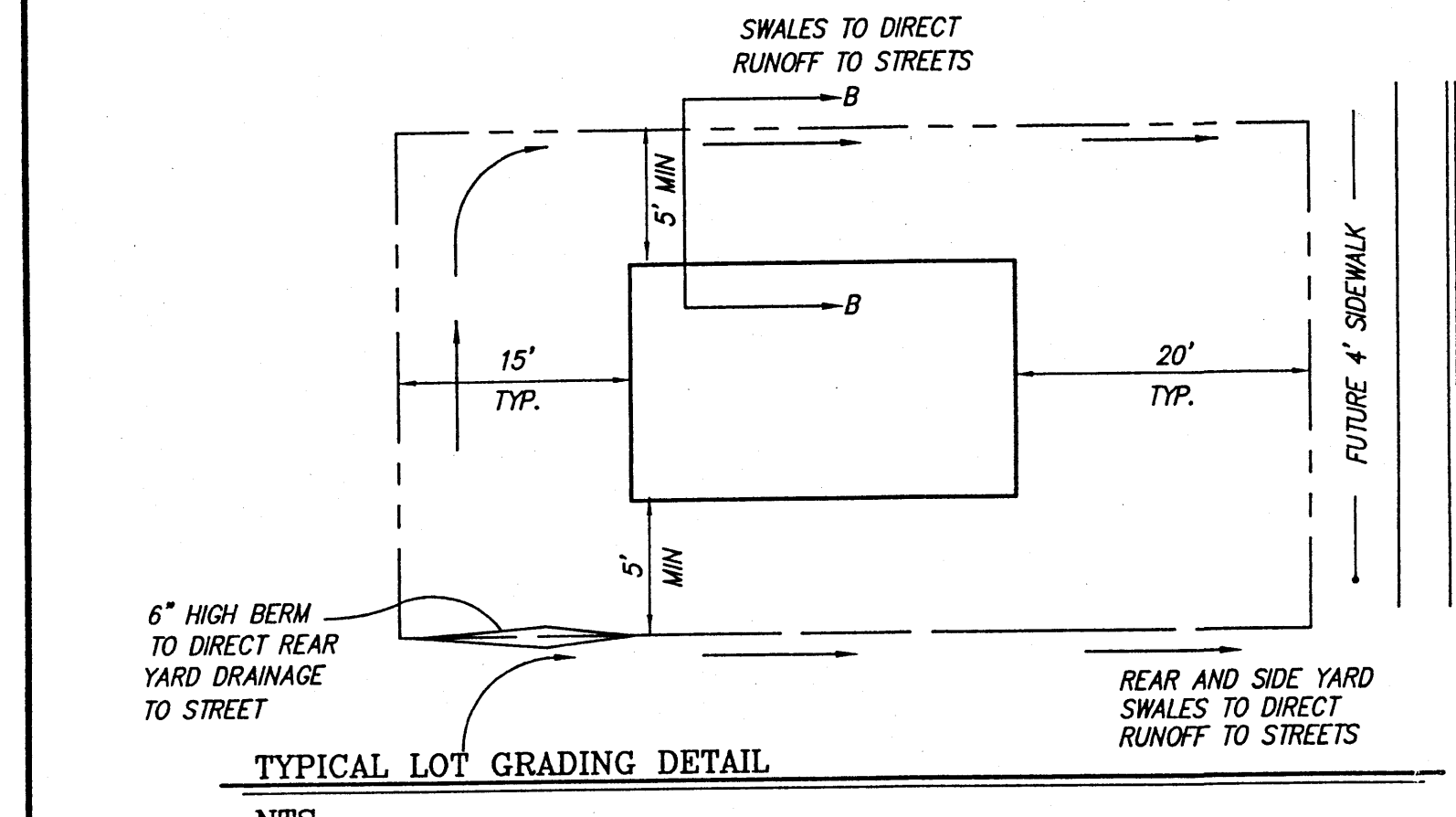
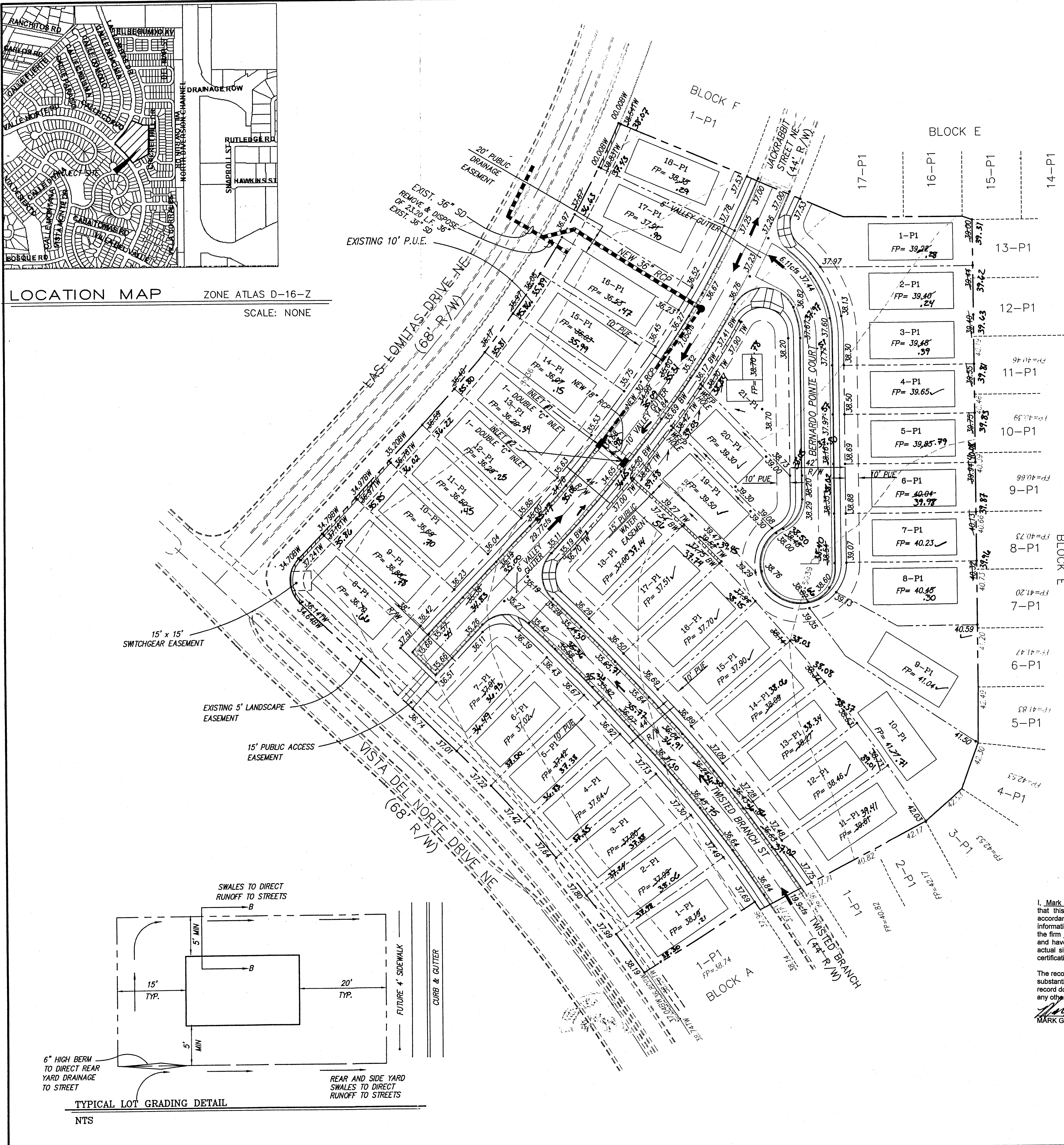
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. ZONE MAP NO. SHEET OF

D-16 1 2



LOCATION MAP
ZONE ATLAS D-16-Z
SCALE: NONE

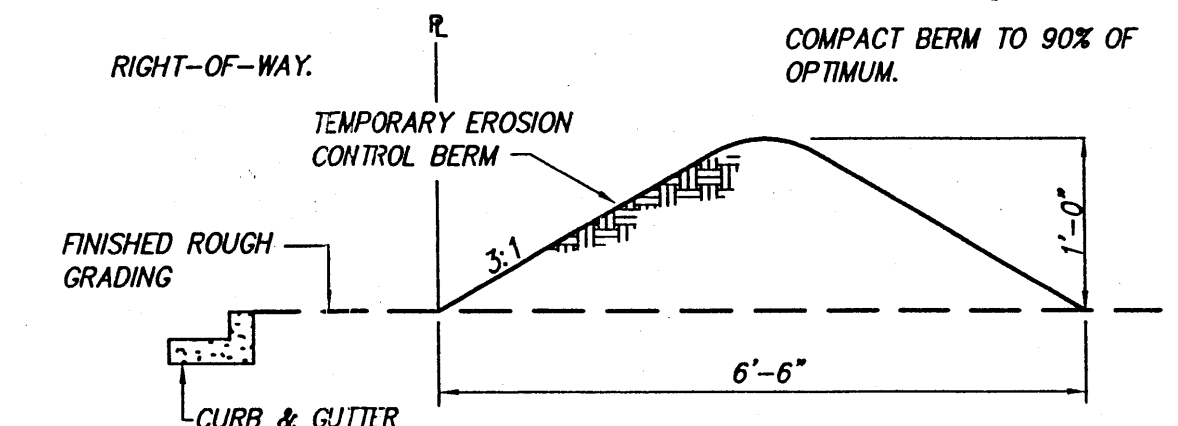


NTS

BERNARDO TRAILS
UNIT 2
(07-11-02, 2002C-232)

BERNARDO TRAILS
UNIT 1
(12-03-01, 2001C-314)

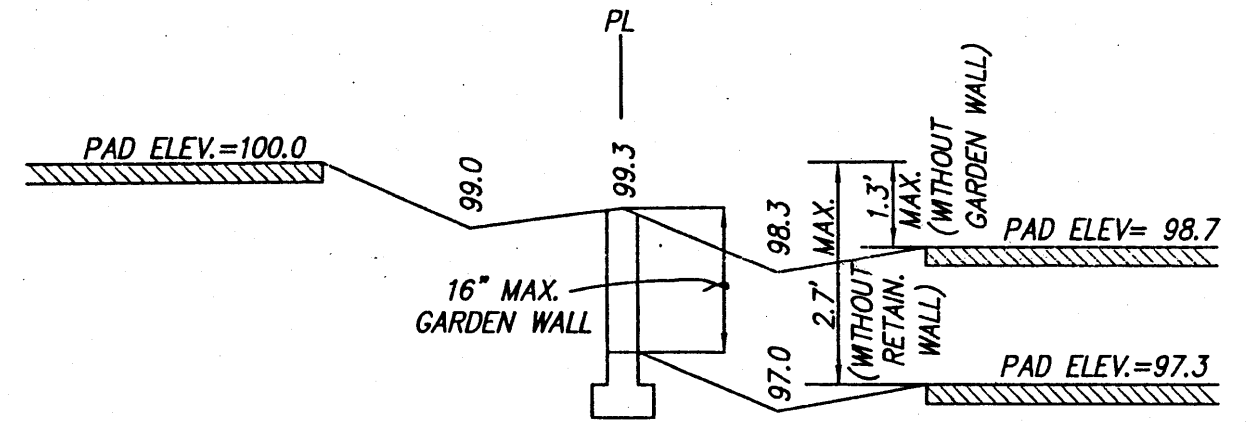
- NOTES**
1. A BLOCK WALL SHALL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER PROPERTY BOUNDARY.
 2. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 1.3' AND LESS THAN 2.7' A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
 3. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.7' A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.



EROSION CONTROL BERM DETAIL
N.T.S.

EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING
4. EROSION CONTROL BERMS ARE REQUIRED AROUND THE ENTIRE SITE.
5. ALL EROSION CONTROL BERMS MUST BE IN PLACE AND ENGINEER CERTIFIED PRIOR TO BUILDING PERMIT RELEASE.



TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL
N.T.S.

LEGEND

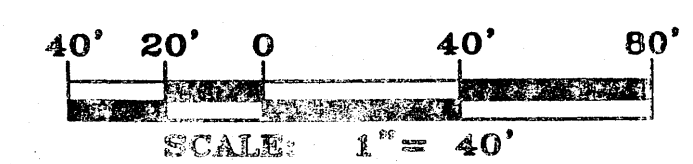
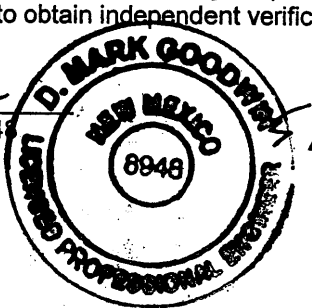
- | | | | |
|-----------|---------------------------------|-----|---------------------------------|
| FP= 39.61 | FINISHED PAD ELEVATION | --- | EXISTING CONTOUR |
| --- | MOUNTABLE CURB & GUTTER | --- | EXISTING SPOT ELEVATION |
| --- | STANDARD 8" CURB & GUTTER | --- | EXISTING OVERHEAD ELECTRIC LINE |
| --- | PROPOSED SPOT ELEVATION | --- | EXISTING POWER POLE |
| --- | 3:1 SLOPE | --- | TRACT/LOT BOUNDARY |
| --- | LOT NUMBER | --- | RIGHT OF WAY |
| --- | UNIT BOUNDARY | --- | EASEMENTS |
| --- | WATER BLOCK | --- | CENTERLINE OF ROAD |
| --- | PROPOSED STORM DRAIN MH | --- | NEW RETAINING WALL |
| --- | EXISTING SANITARY SEWER MANHOLE | | |
| --- | FLOW DIRECTION | | |

DRAINAGE CERTIFICATION

I, Mark Goodwin, NMPE 8948, of the firm Mark Goodwin & Associates, P.A., hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 8/22/2004. The record information edited onto the original design document has been obtained by Timothy Aldrich, of the firm ALS, Inc. I further certify that I have personally visited the project site on 5/02/06 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Grading Certification approval.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on the record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Mark Goodwin, NMPE 8948



A03jobs\A3074BT4\A3074GD2.dwg 08-05-04 DER TAS

MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE: BERNARDO POINTE GRADING & DRAINAGE PLAN	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
LAST DESIGN UPDATE	MO./DAY/YR. 11/02/04
CITY PROJECT NO.	ZONE MAP NO. M-16-Z
SHEET 3 OF 3	
MAY 12 2006	
HYDROLOGY SECTION	

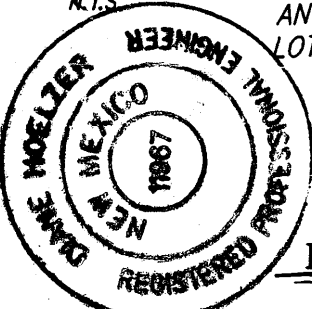


-

TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL

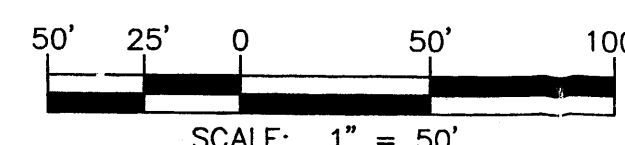
ANY DIFFERENCE IN PAD ELEVATIONS BETWEEN ADJACENT
LOTS GREATER THAN 2.7' WILL REQUIRE RETAINING WALLS

1. A BLOCK WALL WILL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER PROPERTY BOUNDARY.
2. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN "3" AND LESS THAN 2.7" A GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.
3. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 2.7" A RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.



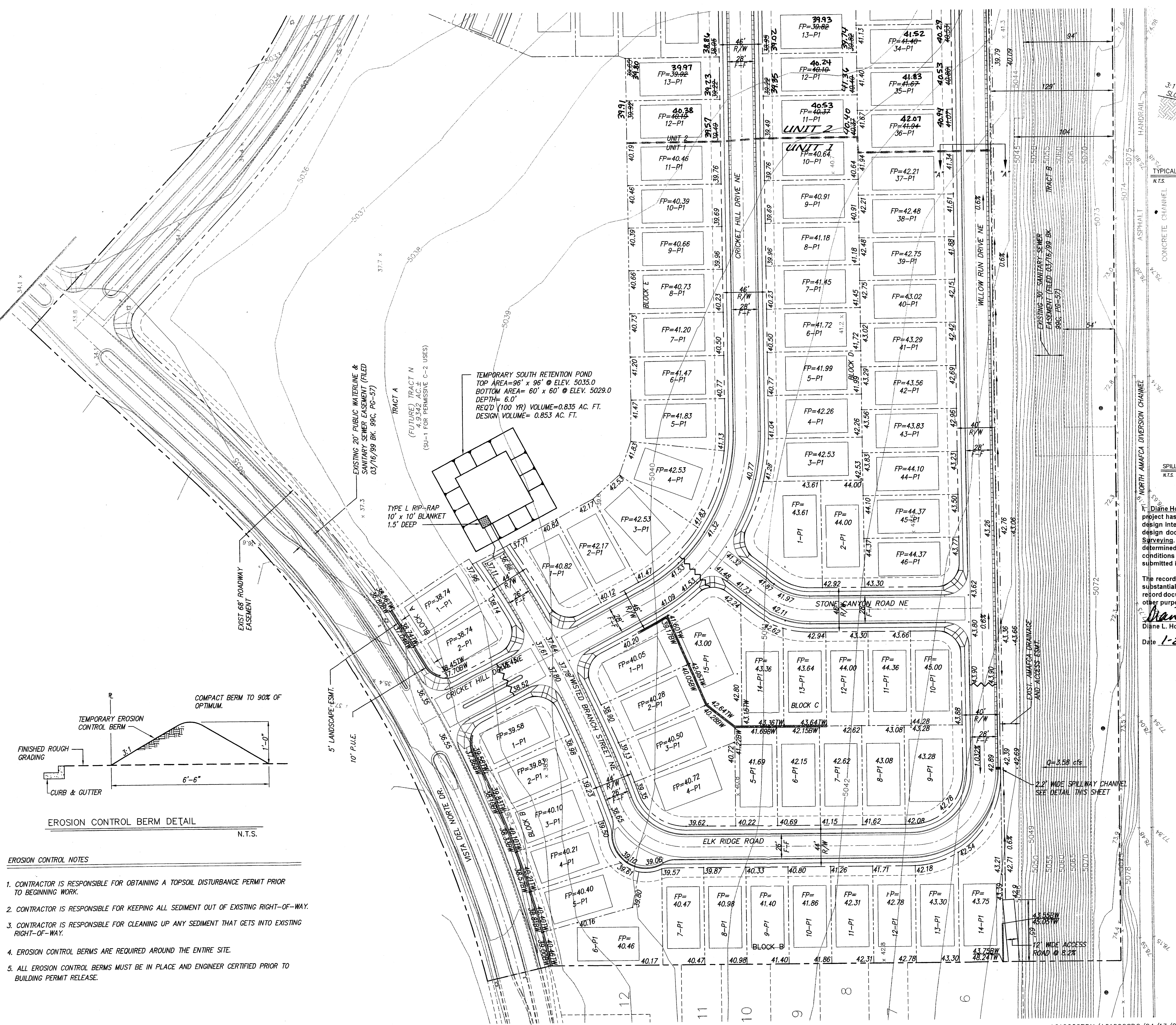
PE NMPE 11967

FD-03

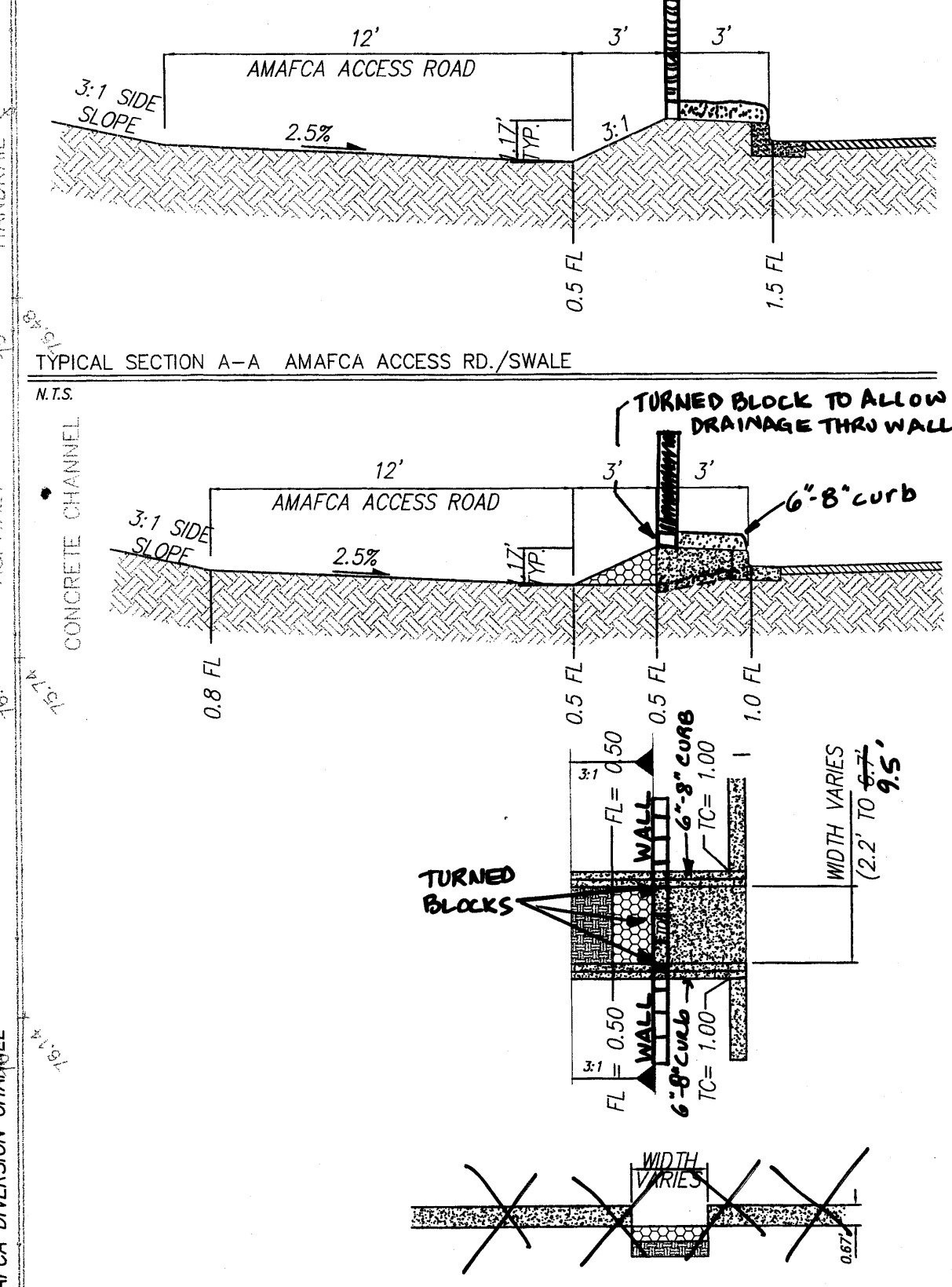


A1020BDN/A01020GD1/07-26-01 DER KJS RDQ ACH

		AS BUILT INFORMATION CONTRACTOR _____ WORK DATED BY _____ DATE _____ DRAWINGS ACCEPTANCE BY _____ DATE _____ SPECIFICATION BY _____ DATE _____ CORRECTED BY _____ DATE _____ MICRO-FILM INFORMATION RECORDED BY _____ DATE _____ NO. _____			
PROPERTY MAP ZONE MAP: D-16		BENCH MARKS STATION MARK IS A STANDARD BRASS TABLET (AMAFCA RIGHT-OF-WAY MARKER) STAMPED "MAA-B" SET IN CONCRETE. LOCATED ON THE WEST SIDE OF THE NORTH DIVERSION CHANNEL 0.5 MILES± NORTH OF OSUNA ROAD. ELEVATION = 5075.6			
— 5135 — EXISTING CONTOUR x 00.00 EXISTING SPOT ELEVATION -E- EXISTING OVERHEAD ELECTRIC LINE ⊕ EXISTING POWER POLE --- TRACT/LOT BOUNDARY --- RIGHT OF WAY --- EASEMENTS --- CENTERLINE OF ROAD ▨ NEW RETAINING WALL △ 50' PAVEMENT TRANSITION → FLOW DIRECTION ↔ SWALE		SURVEY INFORMATION FIELD NOTES NO. _____ DATE _____ BY _____			
GARDEN BLOCKWALL DETAIL IN PAD ELEVATIONS BETWEEN ADJACENT GARDEN WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.		ENGINEER'S SEAL 			
REMARKS NO. _____ DATE _____ DESIGNED BY DLH DATE 05/01 DRAWN BY RDO DATE 05/01 CHECKED BY DMG DATE 05/01					
MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539					
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT					
TITLE: BERNARDO TRALLS GRADING AND DRAINAGE PLAN					
DESIGN REVIEW COMMITTEE		CITY ENGINEER APPROVAL		LAST DESIGN UPDATE	
				MO./DAY/YR. MO./DAY/YR.	
CITY PROJECT NO.		ZONE MAP NO.		SHEET 1 OF 2	



NOTES

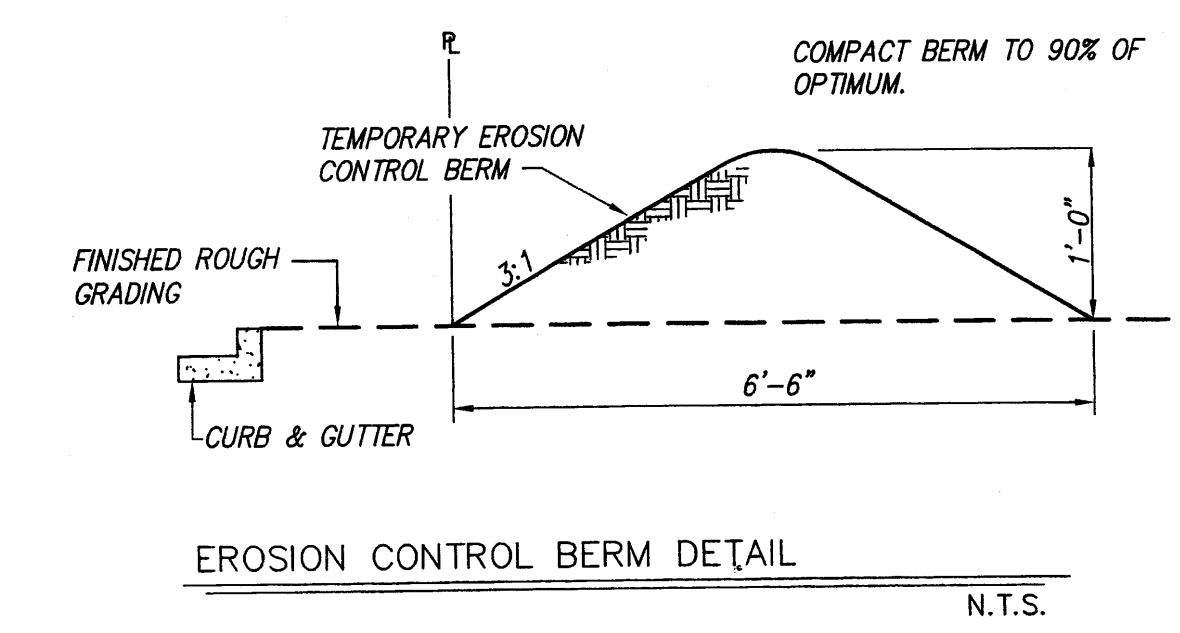
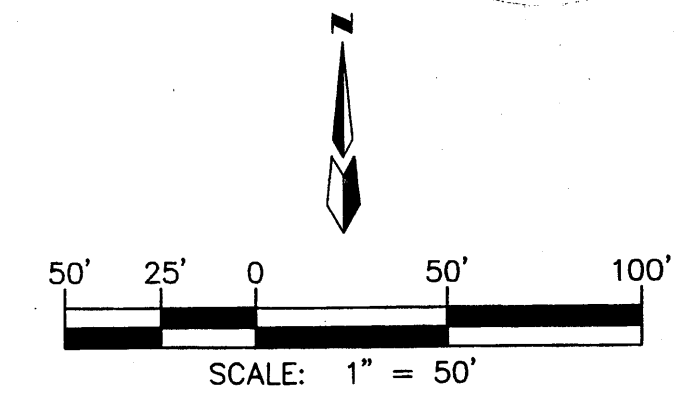


Bernardo Trails Unit 2 DRAINAGE CERTIFICATION

I, Diane Hoelzer, NMPE 11967, of the firm Mark Goodwin & Associates, hereby certify that this project has been graded and will drain in substantial compliance with and in accordance with the design intent of the approved plan dated 7-30-02. The record information edited onto the original design document has been obtained by Tim Aldrich, NMPS 7719, of the firm Aldrich Land Surveying. I further certify that I have personally visited the project site on 1-15-03 and have determined by visual inspection that the survey data provided is representative of actual site conditions and is true and correct to the best of my knowledge and belief. This certification is submitted in support of a request for Release of Financial Guarantees.

The record information presented hereon is not necessarily complete and intended only to verify substantial compliance of the grading and drainage aspects of this project. Those relying on this record document are advised to obtain independent verification of its accuracy before using it for any other purpose.

Diane Hoelzer, PE
Date 1-20-03
NMPE 11967



EROSION CONTROL NOTES

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
2. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
3. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
4. EROSION CONTROL BERMS ARE REQUIRED AROUND THE ENTIRE SITE.
5. ALL EROSION CONTROL BERMS MUST BE IN PLACE AND ENGINEER CERTIFIED PRIOR TO BUILDING PERMIT RELEASE.

CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT		JAN 21 2003	
TITLE: BERNARDO TRAILS GRADING AND DRAINAGE PLAN			
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	MO./DAY/YR.	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO. D-16	SHEET 2	OF 2