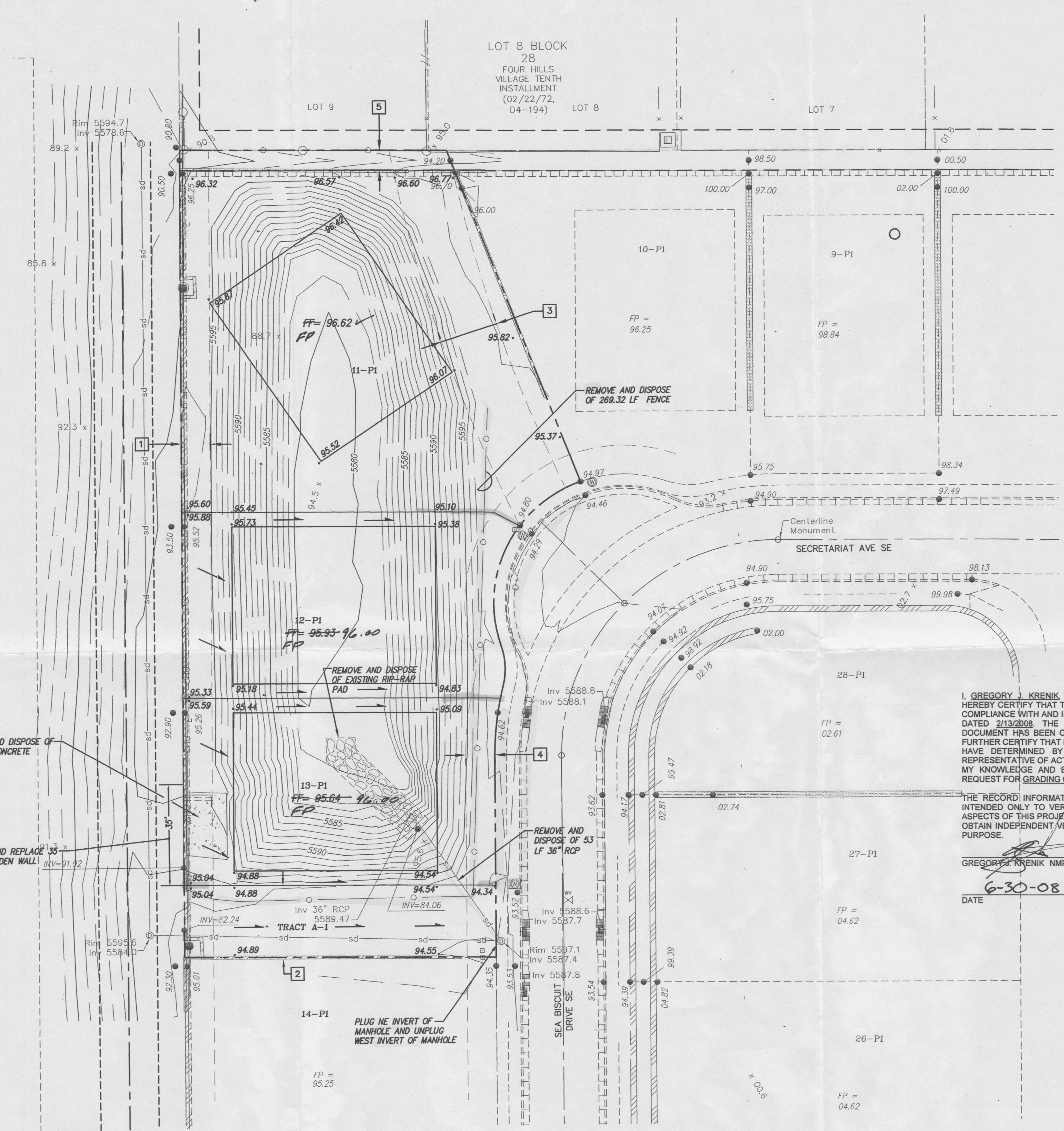




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- 4 EXISTING 10 FOOT PUE (11/7/02, 2002C-358)
- 5 EXISTING 7 FOOT UTILITY AND DRAINAGE EASEMENT (2/22/72, D4-194)

LEGEND

- FP= 30.38 FINISHED PAD ELEVATION
28.53+ PROPOSED SPOT ELEVATION
12-P1 PROPOSED LOT NUMBER
→ PROPOSED FLOWS
-5135- EXISTING CONTOUR
• 97.49 EXISTING SPOT ELEVATION
----- EXISTING CURB AND GUTTER
○ EXISTING SANITARY SEWER MANHOLE
• EXISTING CABLE T.V. PEDESTAL
x EXISTING WATER VALVE
-W- EXISTING OVERHEAD ELECTRIC LINE
-E- EXISTING OVERHEAD ELECTRIC LINE
-T- EXISTING OVERHEAD TELEPHONE LINE
○ EXISTING POWER POLE
x EXISTING TELEPHONE PEDESTAL
x EXISTING FIRE HYDRANT
x EXISTING STORM SEWER MANHOLE
x EXISTING DROP INLET
x EXISTING BILLBOARD
-SAS- EXISTING SANITARY SEWER
-SD- EXISTING STORM DRAIN
-G- EXISTING VHP GASLINE
- - - EXISTING EDGE OF PAVEMENT
- - - EXISTING FENCE

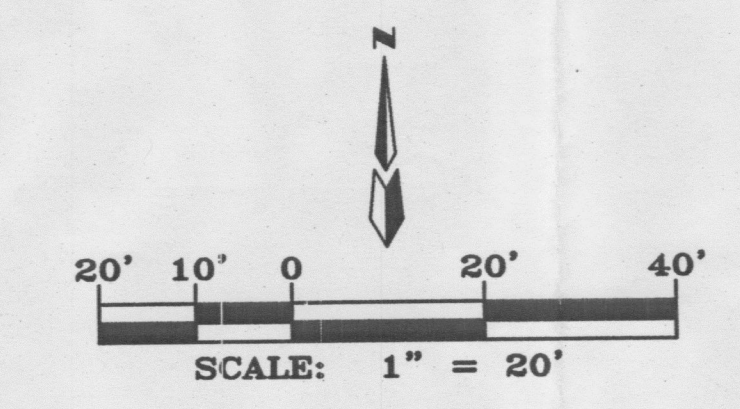
DRAINAGE CERTIFICATION

I, GREGORY J. KRENIK, NMPE 11929, 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 2/13/2008. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY RUSS HUGG, NMPS 8760, OF THE FIRM SURV-TEK. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 02/25/2008, 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.

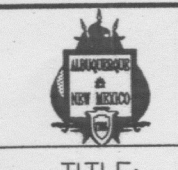
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE REVIEWING THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF THE INFORMATION'S ACCURACY BEFORE USING IT FOR ANY OTHER PURPOSE.

GREGORY J. KRENIK NMPE 11929
6-30-08
DATE

APPROVED ROUGH GRADING ±18" *Ante. Chu* 3-13-08
CITY HYDROLOGY DATE



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

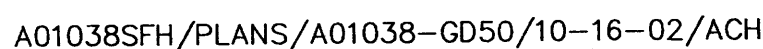
TITLE: RESERVE & FOUR HILLS
GRADING & DRAINAGE PLAN

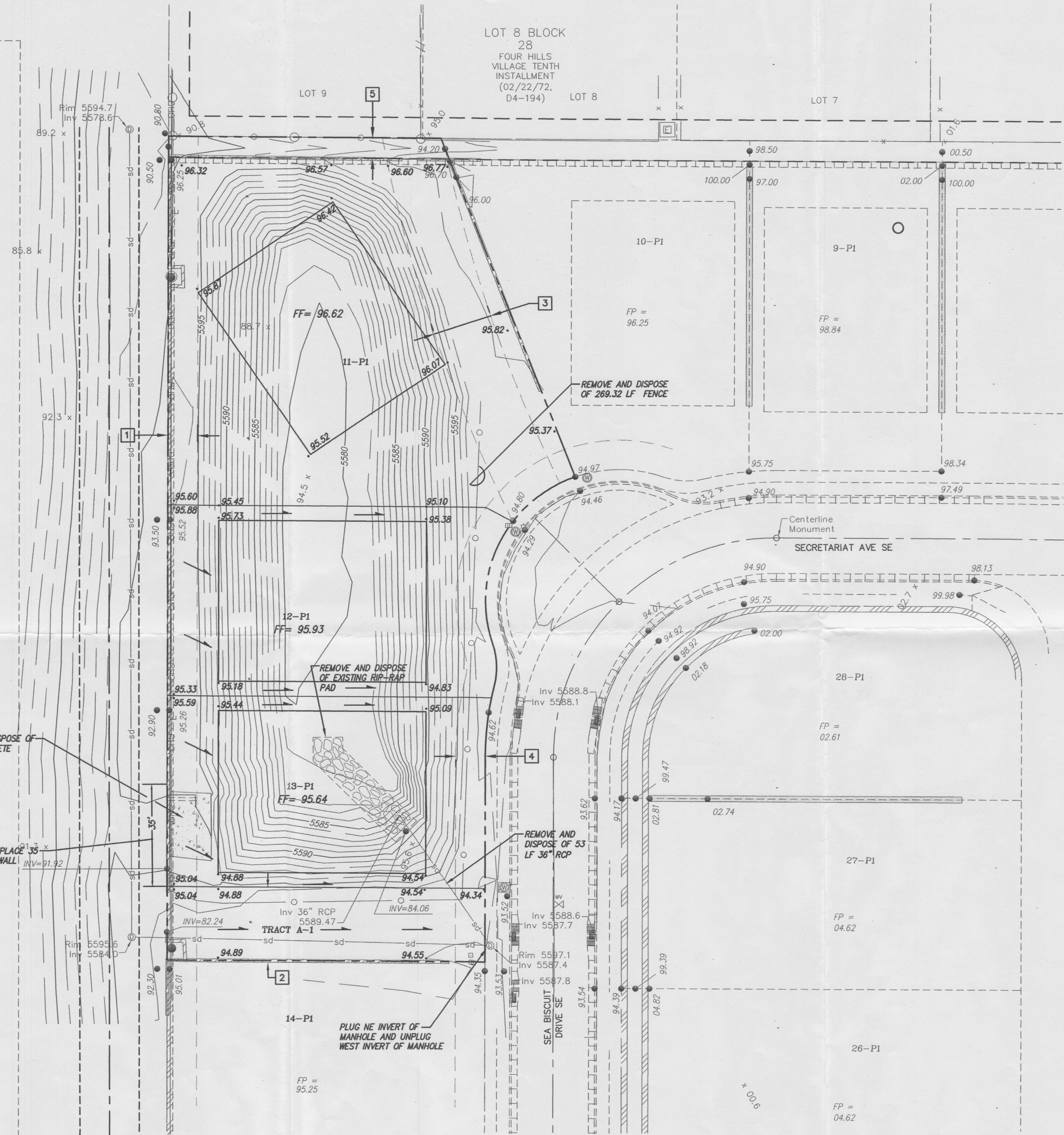
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CITY PROJECT NO. **RECEIVED** ZONE MAP NO. **M-22-Z** SHEET **1** OF **1**

JUL 13 2008

HYDROLOGY
SECTION





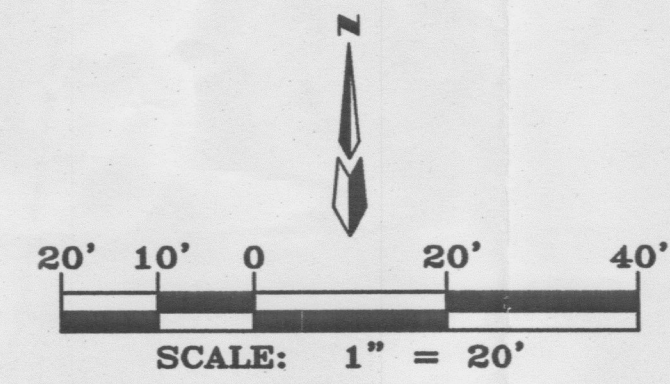
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- LEGEND**
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 - EXISTING CURB AND GUTTER
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 - EXISTING FIRE HYDRANT
 - EXISTING STORM SEWER MANHOLE
 - EXISTING DROP INLET
 - EXISTING BILLBOARD
 - SAS EXISTING SANITARY SEWER
 - SD EXISTING STORM DRAIN
 - G EXISTING VHP GASLINE
 - EXISTING EDGE OF PAVEMENT
 - EXISTING FENCE

Final Plot Grading Cont

APPROVED ROUGH GRADING ±18" CITY HYDROLOGY DATE



dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 30608
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

**CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT**

TITLE: **RESERVE & FOUR HILLS
GRADING & DRAINAGE PLAN**

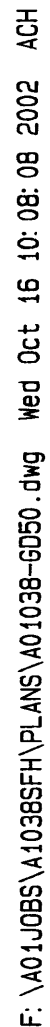
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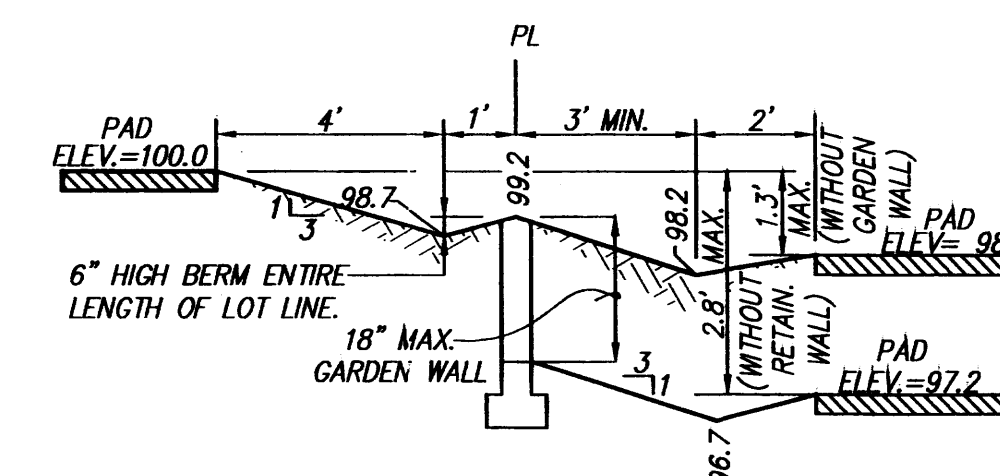
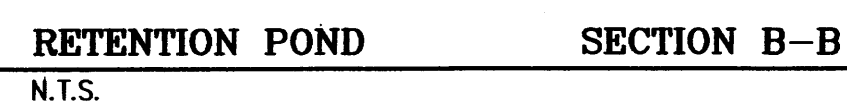
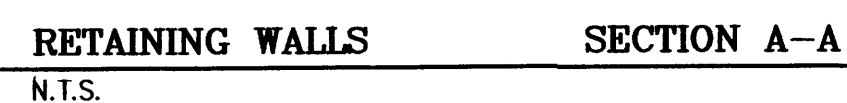
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	M-22-Z	1	1

AS BUILT INFORMATION		BENCH MARKS		SURVEY INFORMATION		ENGINEER'S SEAL	
CONTRACTOR	DATE	NO.	BY	NO.	BY	REMARKS	REVISIONS
WORK	DATE						DESIGN
STAKED BY	DATE						
ACCEPTANCE BY	DATE						
FIELD	DATE						
REVISION	DATE						
DRAWINGS	DATE						
CORRECTED BY	DATE						
INFORM	DATE						
RECORDED BY	DATE						
NO.							

DESIGNED BY **GJK** DATE **02/08**
DRAWN BY **ACH** DATE **02/08**
CHECKED BY **DMG** DATE **02/08**

RECEIVED
FEB 13 2008
HYDROLOGY
SECTION





NOTES:

1. A BLOCK WALL WILL BE CONSTRUCTED ALONG THE ENTIRE PERIMETER BOUNDARY. (PART BY DEVELOPER, PART BY BUILDER.)
2. WHERE THE DIFFERENCE IN ADJACENT PAD ELEVATIONS IS GREATER THAN 1' AND LESS THAN 2'8" 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' RETAINING WALL SHALL BE CONSTRUCTED TO ACCOMMODATE PROPER SIDEYARD LOT DRAINAGE AS SHOWN ON THE SIDEYARD LOT DETAIL.

TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL
N.T.S. ANY DIFFERENCE IN PAD ELEVATIONS BETWEEN ADJACENT

N.T.S. ANY DIFFERENCE IN PAD ELEVATIONS BETWEEN ADJACENT
LOTS GREATER THAN 2.8' WILL REQUIRE RETAINING WALLS

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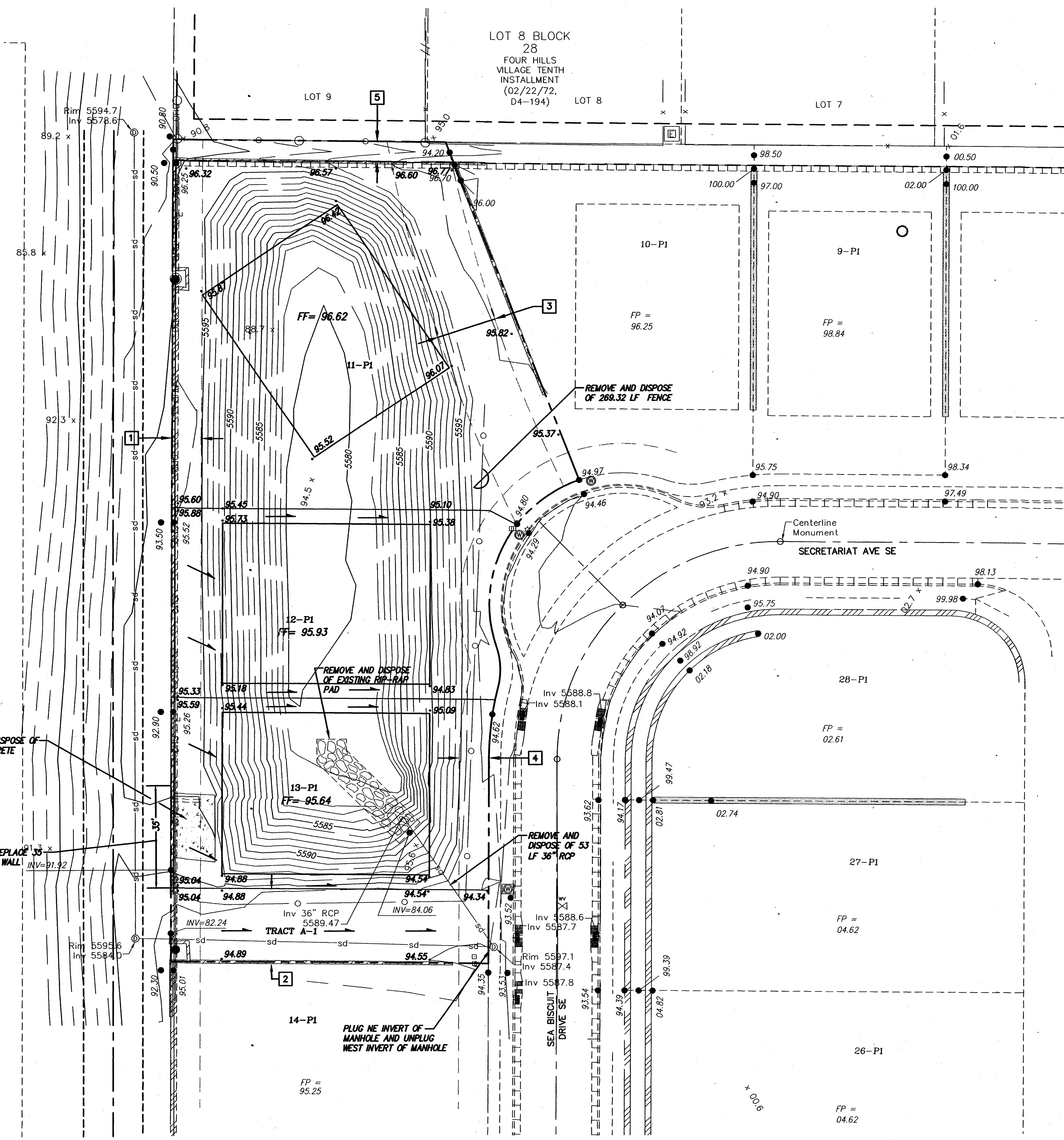


TITLE: **RESERVE @ FOUR HILLS
GRADING & DRAINAGE DETAILS**

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

CITY PROJECT NO.	ZONE MAP NO. <i>M-22</i>	SHEET	OF
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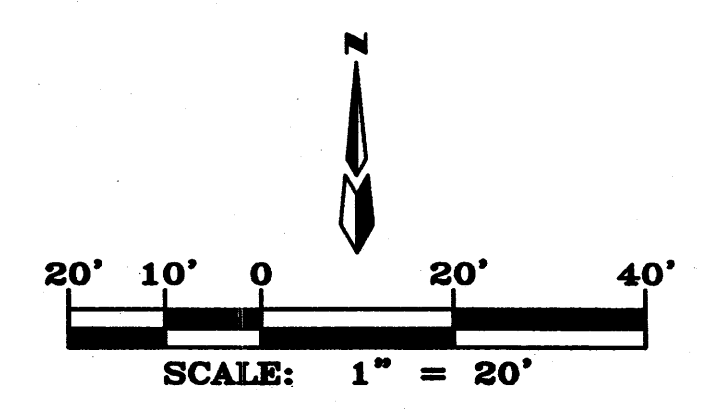


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 - EXISTING POWER POLE
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 - ⊕ EXISTING FIRE HYDRANT
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 - ⊕ EXISTING DROP INLET
 - ===== EXISTING BILLBOARD
 - SAS--- EXISTING SANITARY SEWER
 - SD--- EXISTING STORM DRAIN
 - G--- EXISTING VHP GASLINE
 - EXISTING EDGE OF PAVEMENT
 - EXISTING FENCE

APPROVED ROUGH GRADING ±18" *Ante L. Ch.* 7-17-08
CITY HYDROLOGIST DATE



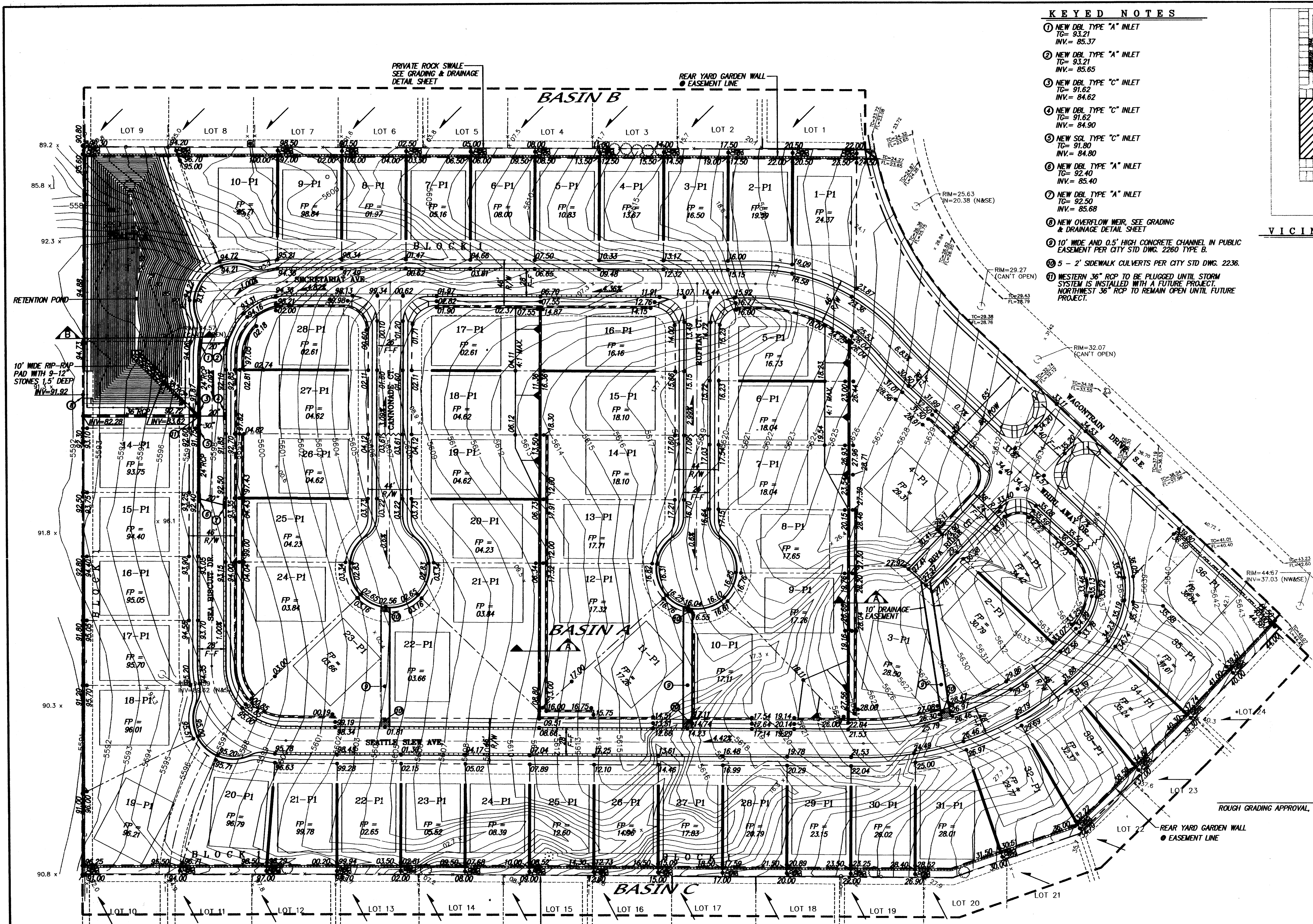
MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS P.O. BOX 90606 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539	
CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
TITLE: RESERVE & FOUR HILLS GRADING & DRAINAGE PLAN	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL
LAST DESIGN UPDATE	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO. M-22-Z
DESIGNED BY GJK	DATE 02/08
DRAWN BY ACH	DATE 02/08
CHECKED BY DMG	DATE 02/08

AS BUILT INFORMATION			
CONTRACTOR	DATE	NO.	BY
STAKED BY	DATE	NO.	BY
INSPECTED BY	DATE	NO.	BY
FIELD NOTES BY	DATE	NO.	BY
ADJUSTMENT BY	DATE	NO.	BY
CORRECTION BY	DATE	NO.	BY
MICRO-FILM INFORMATION			
RECORDED BY	DATE	NO.	BY

BENCH MARKS			
CONTRACTOR	DATE	NO.	BY
STAKED BY	DATE	NO.	BY
INSPECTED BY	DATE	NO.	BY
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ADJUSTMENT BY	DATE	NO.	BY
CORRECTION BY	DATE	NO.	BY

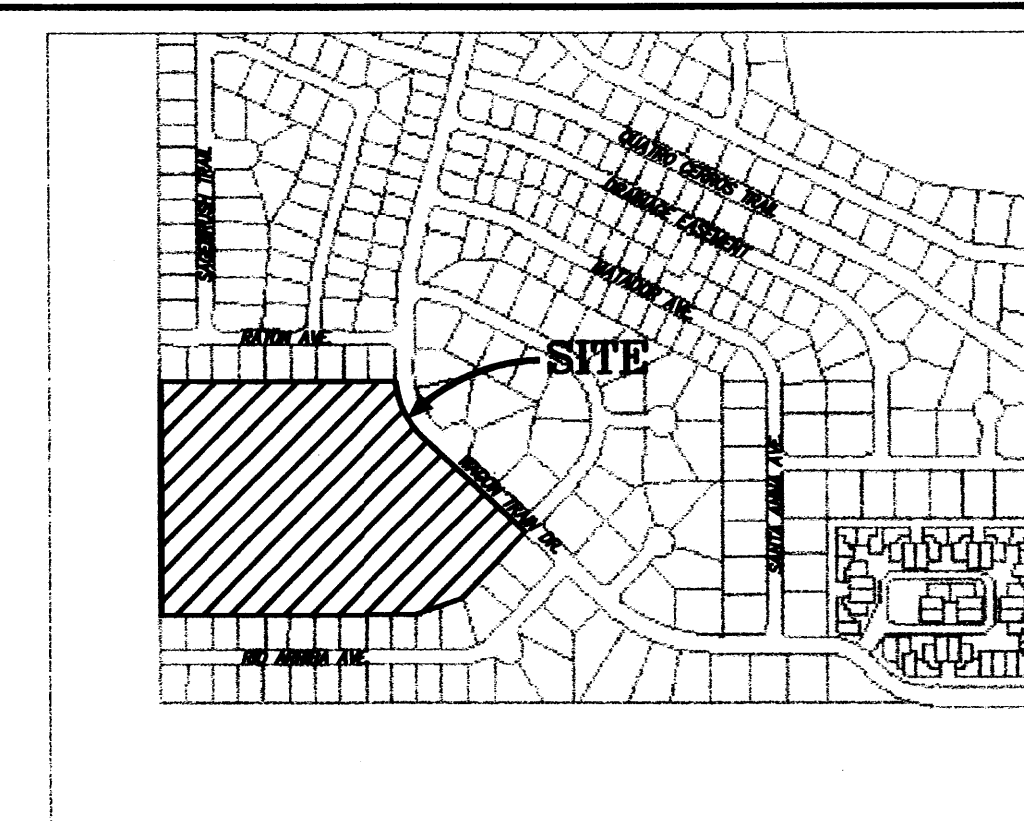
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FIELD NOTES BY	DATE	NO.	BY
ADJUSTMENT BY	DATE	NO.	BY
CORRECTION BY	DATE	NO.	BY





KEYED NOTES

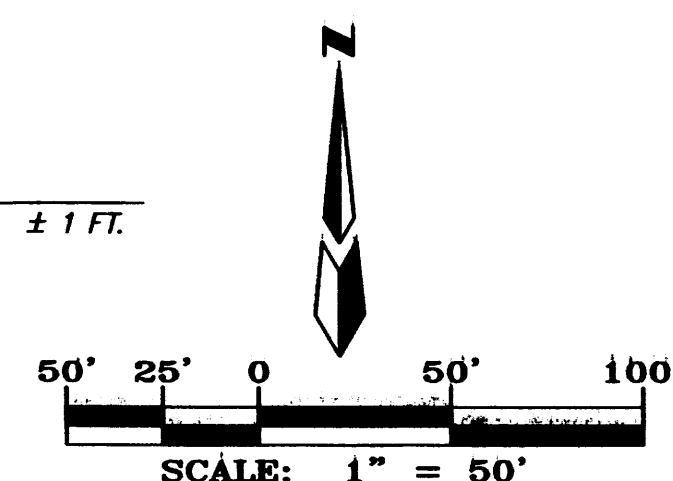
- NEW DBL TYPE "A" INLET
TG= 93.21
INV.= 85.37
- NEW DBL TYPE "A" INLET
TG= 93.21
INV.= 85.65
- NEW DBL TYPE "C" INLET
TG= 91.62
INV.= 84.62
- NEW DBL TYPE "C" INLET
TG= 91.62
INV.= 84.90
- NEW SGL TYPE "C" INLET
TG= 91.80
INV.= 84.80
- NEW DBL TYPE "A" INLET
TG= 92.40
INV.= 85.40
- NEW DBL TYPE "A" INLET
TG= 92.50
INV.= 85.68
- NEW OVERFLOW WEIR, SEE GRADING & DRAINAGE DETAIL SHEET
- 10' WIDE AND 0.5' HIGH CONCRETE CHANNEL IN PUBLIC EASEMENT PER CITY STD DWG. 2260 TYPE B.
- 5 - 2' SIDEWALK CULVERTS PER CITY STD DWG. 2236.
- WESTERN 36" RCP TO BE PLUGGED UNTIL STORM SYSTEM IS INSTALLED WITH A FUTURE PROJECT. NORTHWEST 36" RCP TO REMAIN OPEN UNTIL FUTURE PROJECT.



VICINITY MAP ZONE MAP: M-22

LEGEND

- 5615 EXISTING CONTOUR (MAJOR)
- 5616 EXISTING CONTOUR (MINOR)
- TC= x 00.0 EXISTING SPOT ELEVATION
- EXISTING CONCRETE CURB
- EXISTING WALL OR HEAD WALL
- EXISTING SIGN
- EXISTING WOOD FENCE
- EXISTING CHAIN LINK FENCE
- EXISTING TREE
- EXISTING SANITARY SEWER MANHOLE
- EXISTING FIRE HYDRANT
- EXISTING ELECTRIC TRANSFORMER
- EXISTING OVERHEAD ELECTRIC LINE
- EXISTING POWER POLE
- EXISTING TELEPHONE BOX
- EXISTING CONCRETE SUPPORT
- EXISTING MAILBOX
- EXISTING BASKETBALL GOAL SUPPORT
- NEW CURB & GUTTER
- NEW SIDEWALK
- NEW RIGHT-OF-WAY
- NEW CENTERLINE
- NEW LOT LINES
- NEW EASEMENTS
- NEW GARDEN WALL
- NEW PERIMETER RETAINING WALL
- NEW SIDE LOT RETAINING WALL
- NEW SPOT ELEVATIONS
- NEW FLOW
- NEW ROCK SWALE
- NEW SLOPE
- NEW HIGH POINT
- NEW BASIN BOUNDARY
- NEW CHAIN LINK FENCE

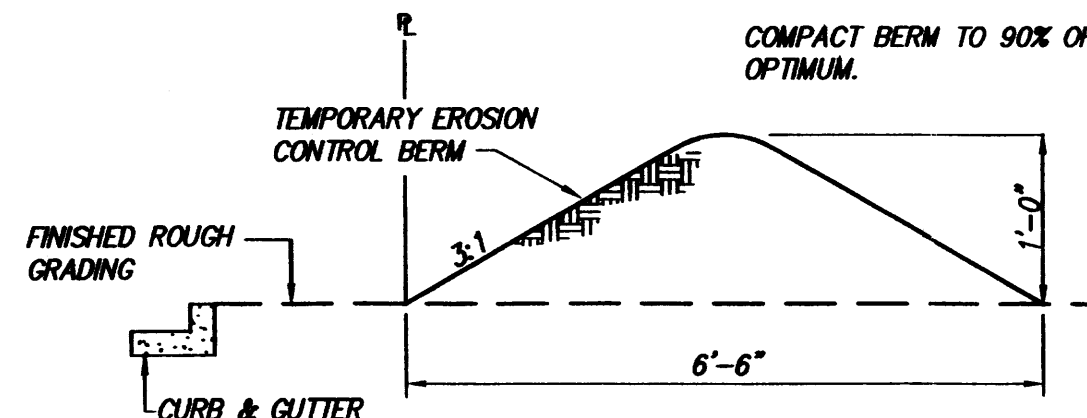


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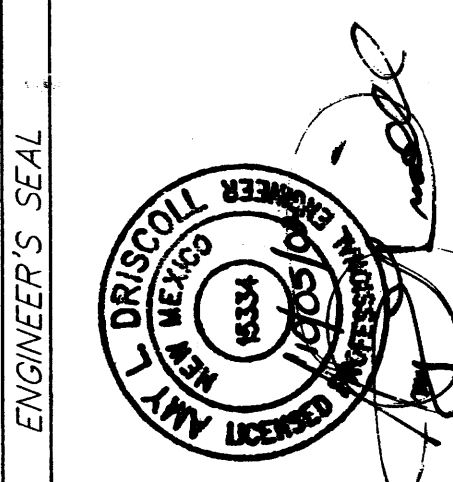
EROSION CONTROL NOTES

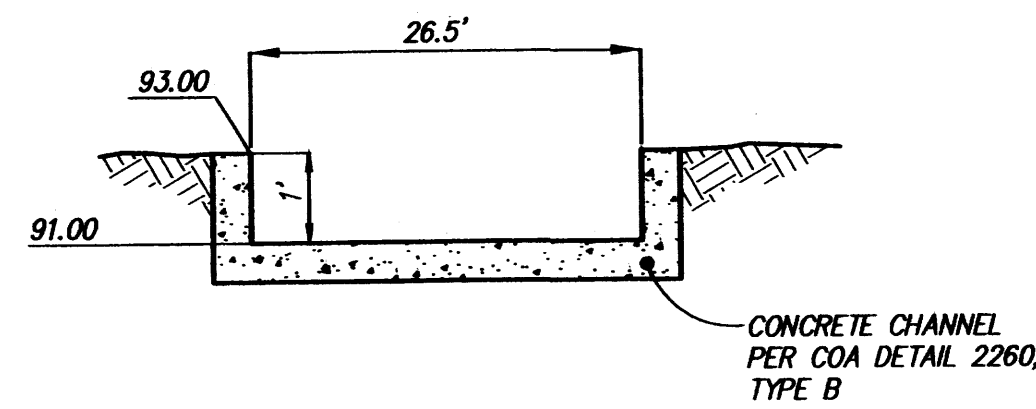
- CONTRACTOR IS RESPONSIBLE FOR OBTAINING A TOPSOIL DISTURBANCE PERMIT PRIOR TO BEGINNING WORK.
- CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL SEDIMENT OUT OF EXISTING RIGHT-OF-WAY.
- CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
- EROSION CONTROL BERMS ARE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



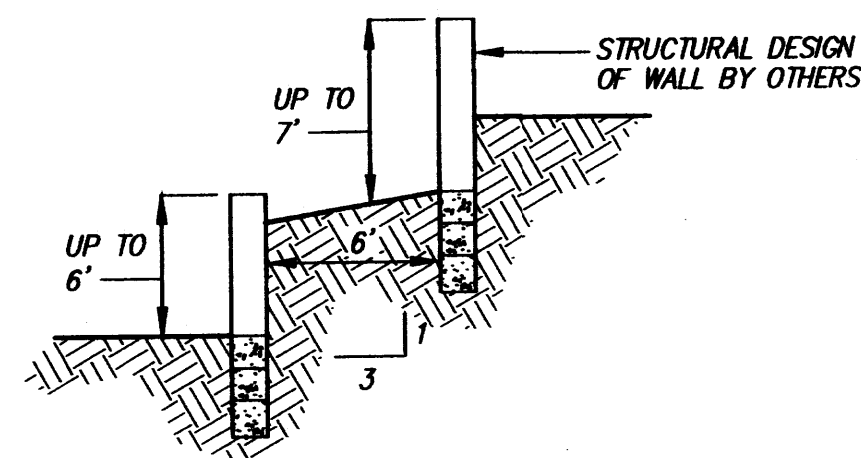
EROSION CONTROL BERM DETAIL

MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS P.O. BOX 9006 ALBUQUERQUE, NEW MEXICO 87199 (505) 828-2200, FAX (505) 797-9539		CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	
TITLE: RESERVE AT FOUR HILLS GRADING & DRAINAGE PLAN		HYDROLOGY SECTION	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	DATE	DATE
		05/02	05/02
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	M-22		

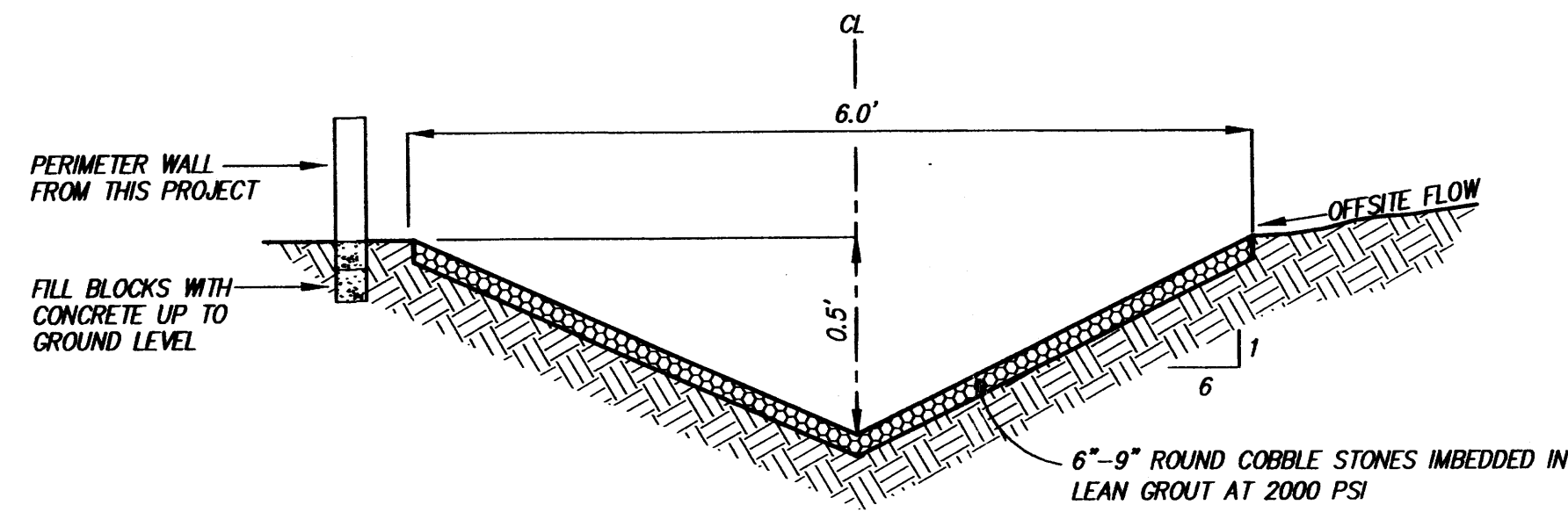




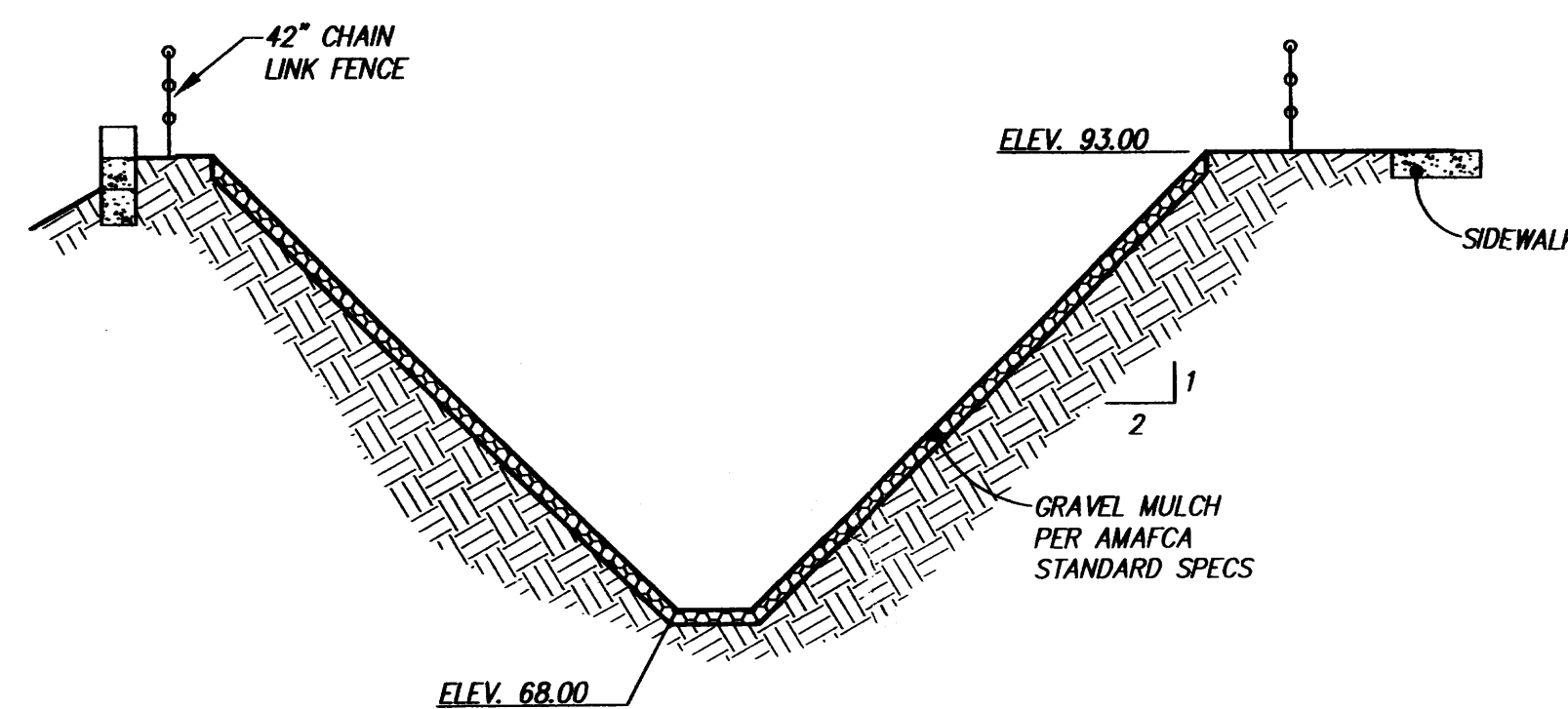
WEIR DETAIL
N.T.S.



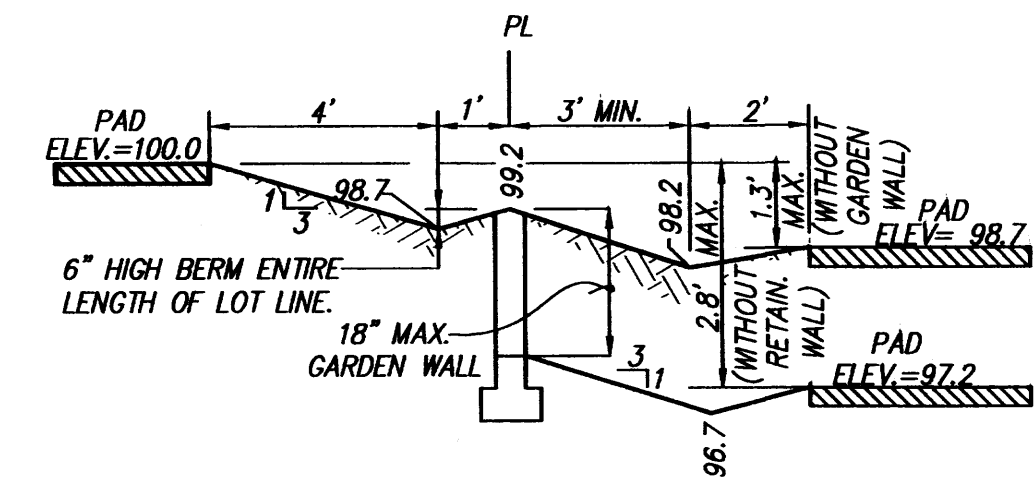
RETAINING WALLS
N.T.S.



SWALE DETAIL
N.T.S.



RETENTION POND
N.T.S.

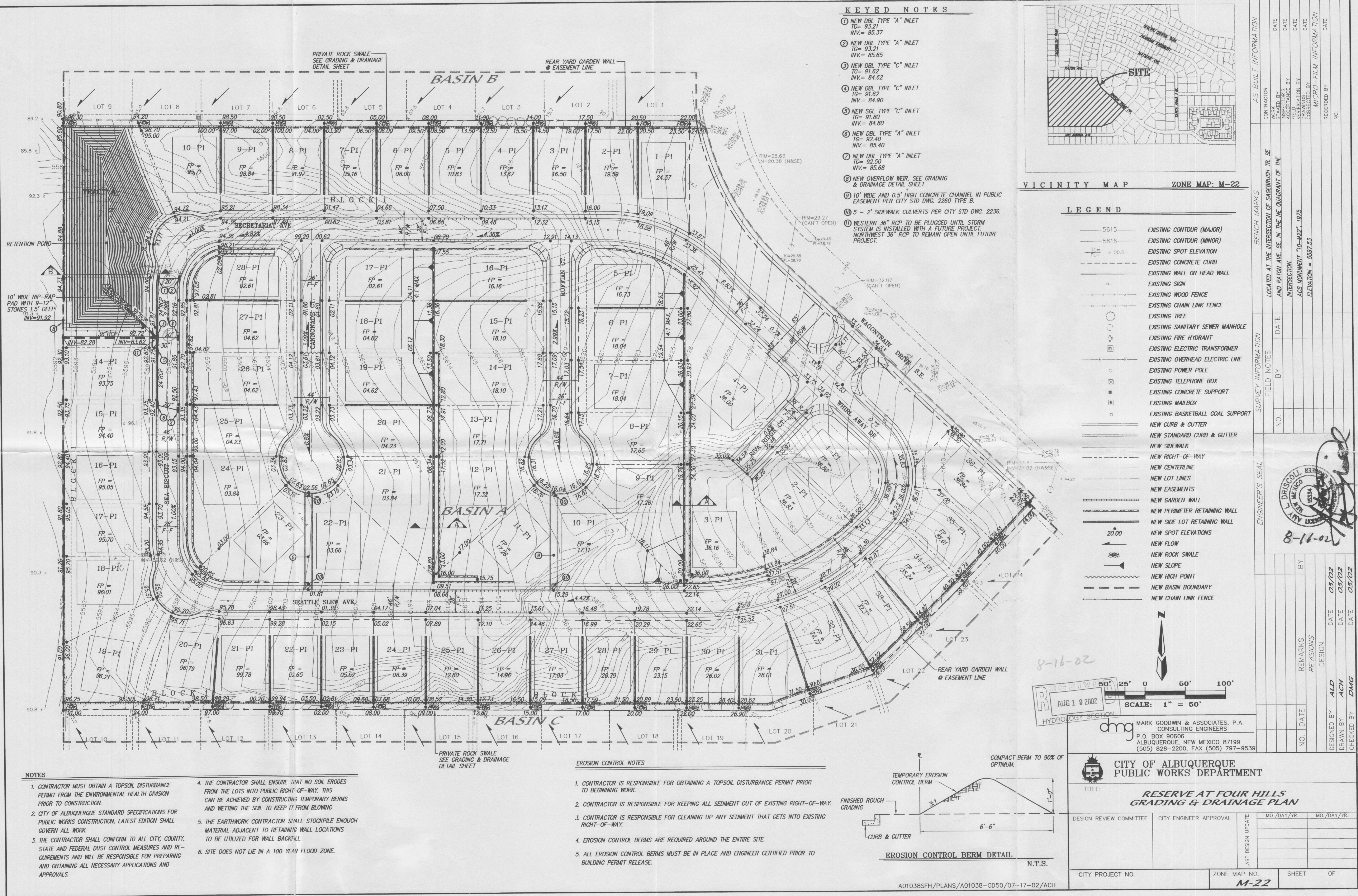


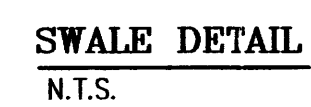
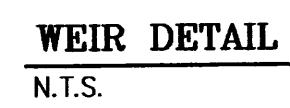
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TYPICAL SIDEYARD GARDEN BLOCKWALL DETAIL
N.T.S.

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 HYDROLOGY SECTION	
TITLE: RESERVE @ FOUR HILLS GRADING & DRAINAGE DETAILS		OCT 08 2002	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.
CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	M-22	#	#





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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

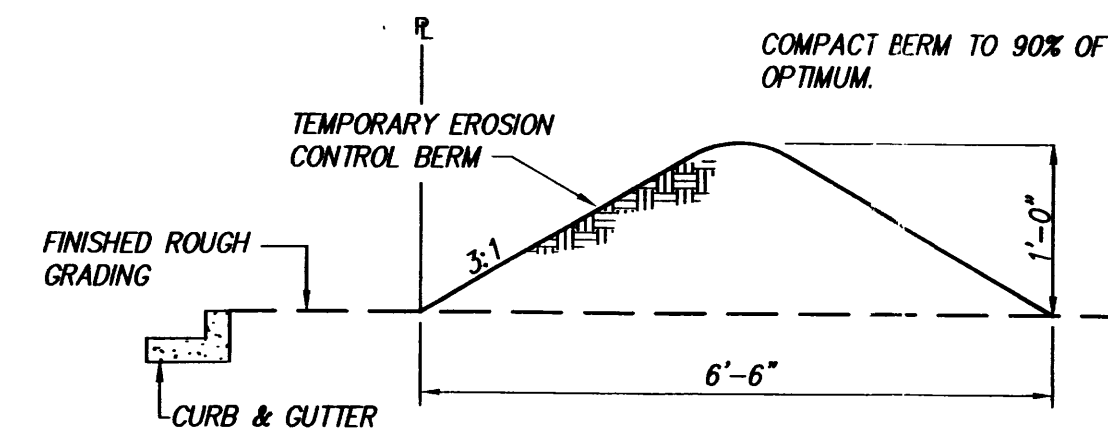
CITY PROJECT NO.	ZONE MAP NO. M-22	SHEET OF # #
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NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
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6. SITE DOES NOT LIE IN A 100 YEAR FLOOD ZONE.

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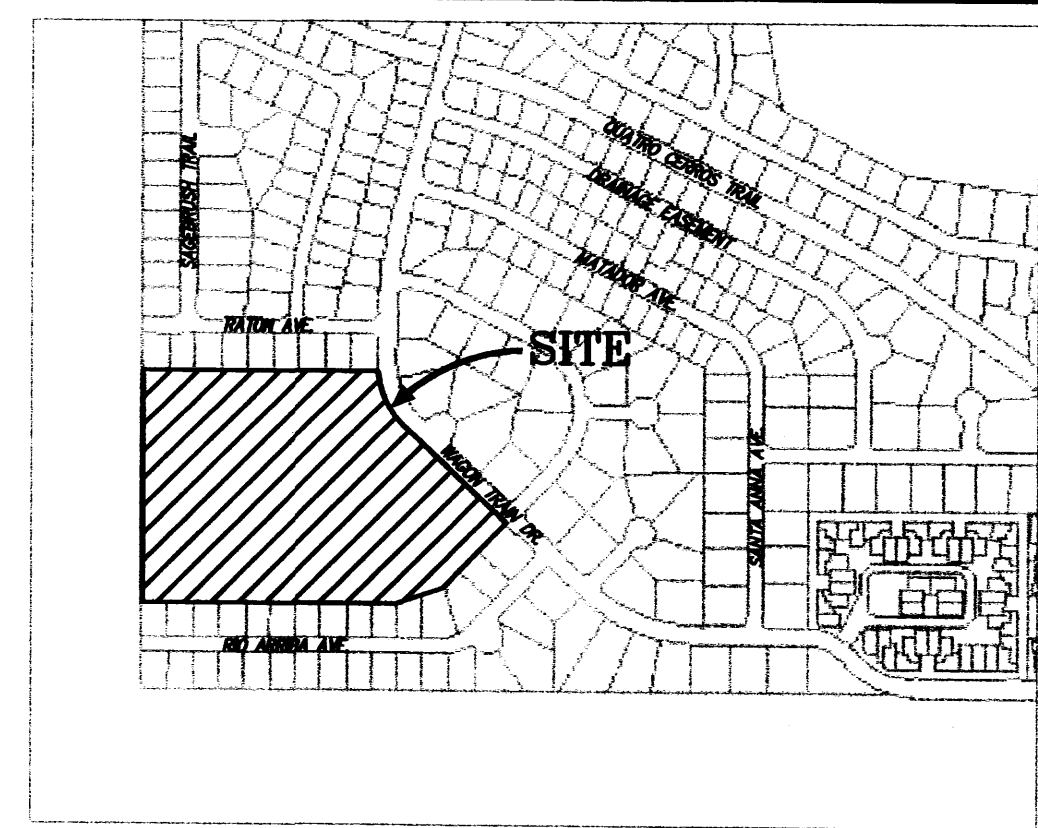
EROSION CONTROL BERM DETAIL

N.T.S.

A01038SFH/PLANS/A01038-GD50/07-17-02/ACH

KEYED NOTES

- ① NEW DBL TYPE "A" INLET
TG= 93.21
INV.= 85.37
- ② NEW DBL TYPE "A" INLET
TG= 93.21
INV.= 85.65
- ③ NEW DBL TYPE "C" INLET
TG= 91.62
INV.= 84.62
- ④ NEW DBL TYPE "C" INLET
TG= 91.62
INV.= 84.90
- ⑤ NEW SGL TYPE "C" INLET
TG= 91.80
INV.= 84.80
- ⑥ NEW DBL TYPE "A" INLET
TG= 92.40
INV.= 85.40
- ⑦ NEW DBL TYPE "A" INLET
TG= 92.50
INV.= 85.68
- ⑧ NEW OVERFLOW WEIR, SEE GRADING
& DRAINAGE DETAIL SHEET
- ⑨ 10' WIDE AND 0.5' HIGH CONCRETE CHANNEL IN PUBLIC
EASEMENT PER CITY STD DWG. 2260 TYPE B.
- ⑩ 5 - 2' SIDEWALK CULVERTS PER CITY STD DWG. 2236.
- ⑪ WESTERN 36" RCP TO BE PLUGGED UNTIL STORM
SYSTEM IS INSTALLED WITH A FUTURE PROJECT.
EAST 36" RCP TO REMAIN OPEN UNTIL FUTURE
PROJECT.

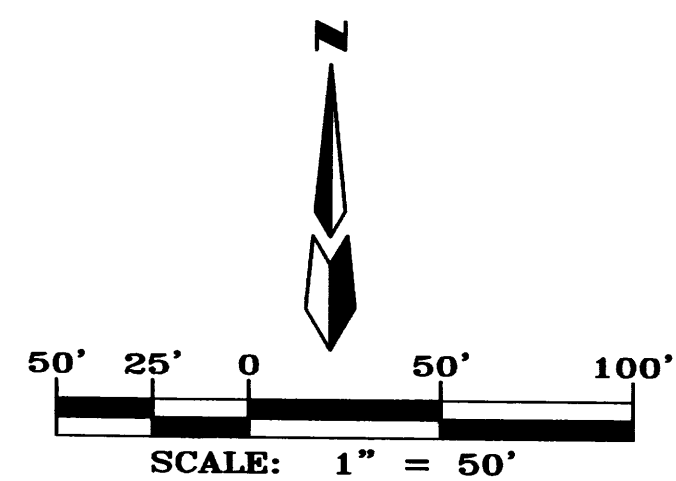


V I C I N I T Y M A P

ZONE MAP: M-22

LEGEND

- | | |
|--|----------------------------------|
| | EXISTING CONTOUR (MAJOR) |
| | EXISTING CONTOUR (MINOR) |
| | EXISTING SPOT ELEVATION |
| | EXISTING CONCRETE CURB |
| | EXISTING WALL OR HEAD WALL |
| | EXISTING SIGN |
| | EXISTING WOOD FENCE |
| | EXISTING CHAIN LINK FENCE |
| | EXISTING TREE |
| | EXISTING SANITARY SEWER MANHOLE |
| | EXISTING FIRE HYDRANT |
| | EXISTING ELECTRIC TRANSFORMER |
| | EXISTING OVERHEAD ELECTRIC LINE |
| | EXISTING POWER POLE |
| | EXISTING TELEPHONE BOX |
| | EXISTING CONCRETE SUPPORT |
| | EXISTING MAILBOX |
| | EXISTING BASKETBALL GOAL SUPPORT |
| | NEW CURB & GUTTER |
| | NEW STANDARD CURB & GUTTER |
| | NEW SIDEWALK |
| | NEW RIGHT-OF-WAY |
| | NEW CENTERLINE |
| | NEW LOT LINES |
| | NEW EASEMENTS |
| | NEW GARDEN WALL |
| | NEW PERIMETER RETAINING WALL |
| | NEW SIDE LOT RETAINING WALL |
| | NEW SPOT ELEVATIONS |
| | NEW FLOW |
| | NEW ROCK SWALE |
| | NEW SLOPE |
| | NEW HIGH POINT |
| | NEW BASIN BOUNDARY |
| | NEW CHAIN LINK FENCE |


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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: **RESERVE @ FOUR HILL
GRADING & DRAINAGE**

DESIGN REVIEW COMMITTEE

CITY ENGINEER APPROVAL

TE	MO./DAY/YR.	MO./DAY/YR.
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1. *Journal of the American Medical Association*, 2000; 284: 2689-2695.

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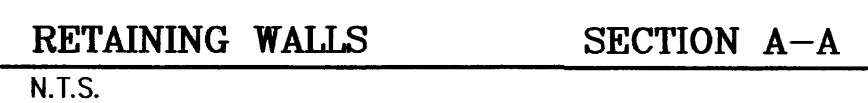
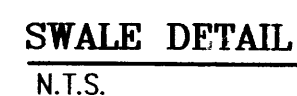
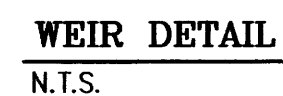
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CITY PROJECT NO.

ZONE

AP NO.	SHEET	OF
1600		

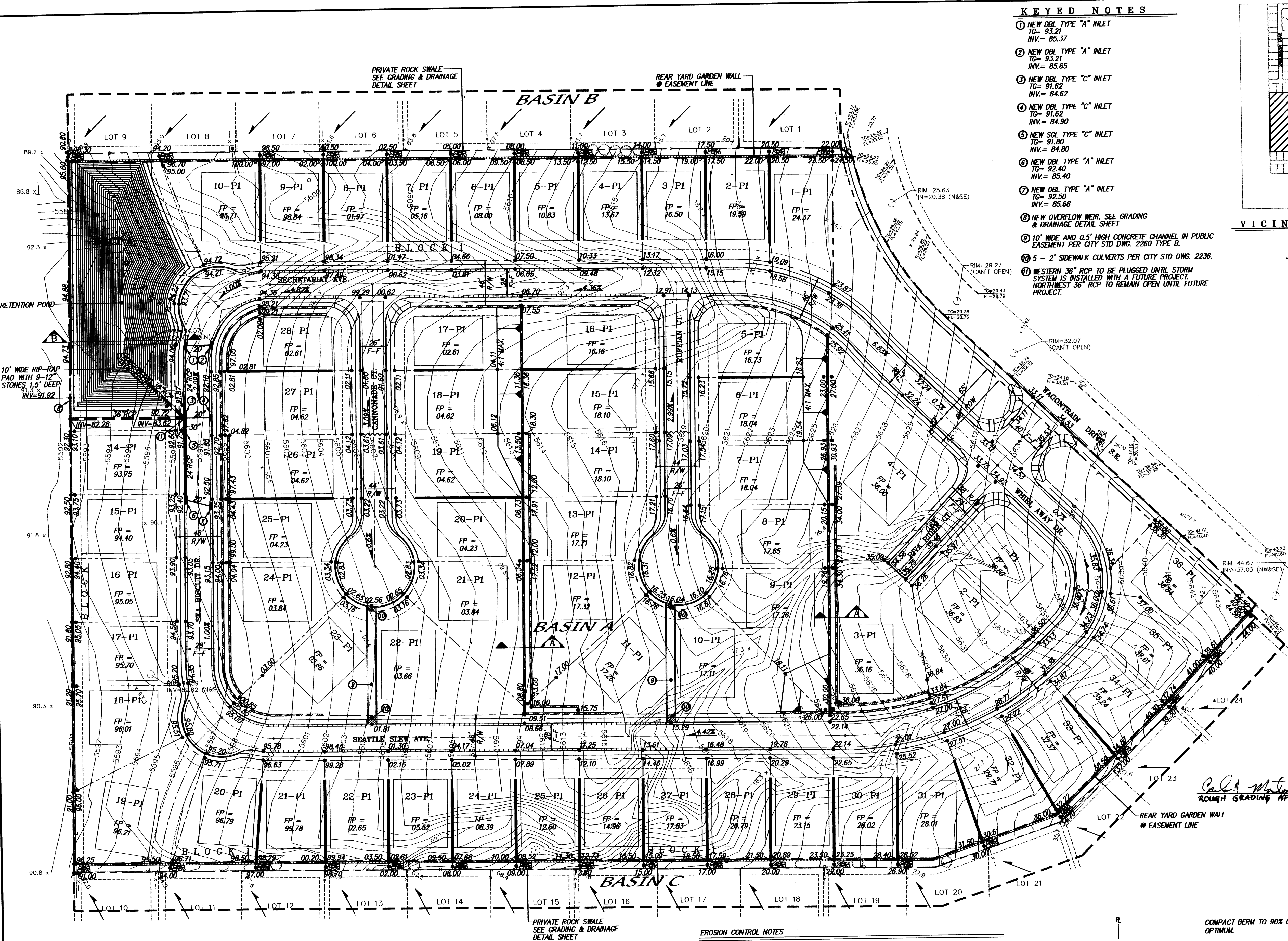


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	CITY OF ALBUQUERQUE PUBLIC WORKS DEPARTMENT	(505) 222-2222, FAX (505) 747-3333 															
TITLE: <i>RESERVE @ FOUR HILLS GRADING & DRAINAGE DETAILS</i>																	
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 15%; text-align: center; vertical-align: middle;">LAST DESIGN UPDATE</td> <td style="width: 25%; text-align: center; vertical-align: middle;">MO./DAY/YR.</td> <td style="width: 60%;"></td> </tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> <tr><td></td><td></td><td></td></tr> </table>	LAST DESIGN UPDATE	MO./DAY/YR.													
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CITY PROJECT NO.	ZONE MAP NO. M-22	SHEET OF															

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VICINITY MAP

ZONE MAP: M-22

LEGEND

- 5615 EXISTING CONTOUR (MAJOR)
- 5616 EXISTING CONTOUR (MINOR)
- EXISTING SPOT ELEVATION
- EXISTING CONCRETE CURB
- EXISTING WALL OR HEAD WALL
- EXISTING SIGN
- EXISTING WOOD FENCE
- EXISTING CHAIN LINK FENCE
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- NEW GARDEN WALL
- NEW PERIMETER RETAINING WALL
- NEW SIDE LOT RETAINING WALL
- NEW SPOT ELEVATIONS
- NEW FLOW
- NEW ROCK SWALE
- NEW SLOPE
- NEW HIGH POINT
- NEW BASIN BOUNDARY
- NEW CHAIN LINK FENCE

ROUGH GRADING APPROVAL, 7-10-12

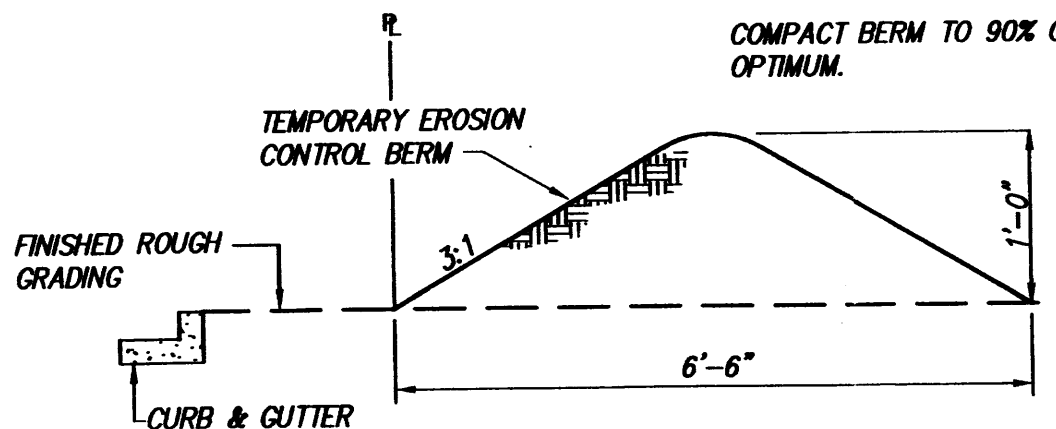
SCALE: 1" = 50'

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EROSION CONTROL BERM DETAIL

N.T.S.

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TITLE: RESERVE AT FOUR HILLS GRADING & DRAINAGE PLAN

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

CITY PROJECT NO. ZONE MAP NO. M-22 SHEET OF