AMENDED PRELIMINARY PLAT
FOR
UNITS 4, 5 AND 6
PAINTED SKY SUBDIVISION

BEING PARCEL 2-A PAINTED SKY SUBDIVISION UNIT 3, SECTION 16, TOWNSHIP 10 NORTH, RANGE 2 EAST, NMPM, CITY OF ALBUQUERQUE, BERNALILLO COUNTY, NEW MEXICO APRIL, 2002

ACS MONUMENT "ANDY" N.M. STATE PLANE COORDINATES (CENTRAL ZONE) NAD 27 X=347212.94 Y=1493629.17 DELTA ALPHA = -017'38" G-G = 0.99966057 ELEVATION = 5564.45

ACS MONUMENT "I-40-20A" N.M. STATE PLANE COORDINATES (CENTRAL ZONE) NAD 27 X=356926.16 Y=1490199.97 DELTA ALPHA = -016'30" G-G = 0.9996763 ELEVATION = 5165.89

- (A) EXIST 25' SANITARY SEWER AND WATER LINE EASMENT (08/10/01, 2001C-231)
- (B) EXISTING 10' PUBLIC UTUILITY EASEMENT (12/14/2001, 2001C-330)
- (C) EXIST. 10' PUE PAINTED SKY, UNIT 1 (08/10/01, 2001C-231)
- (D) EXIST. 25' SANITARY SEWER AND WATER LINE EASEMENT (08/10/01, 2001C-232)
- (E) EXIST. 10' PUE PAINTED SKY, UNIT 2 (08/10/01, 2001C-232)

LINE TABLE

NUMBER	DIRECTION	DISTANCE
L1	S 31°10'52" E	102.00'
L2	S 85°50'29" W	19.71'
L3	S 00°23'41" W	10.65'
L4	N 74°39'54" E	157.76'
L5	N 15°20'06" W	10.00'
L6	N 74°41'14" E	250.28'
L7	S 09°27'08" E	112.20'
L8	N 15°20'06" W	46.00'
L9	S 74°39'54" W	2.64'
L10	S 15°20'06" E	275.00'
L11	S 23°08'47" E	45.69'
L12	N 31°10'52" W	61.44'
L13	N 58°49'08" E	18.03'

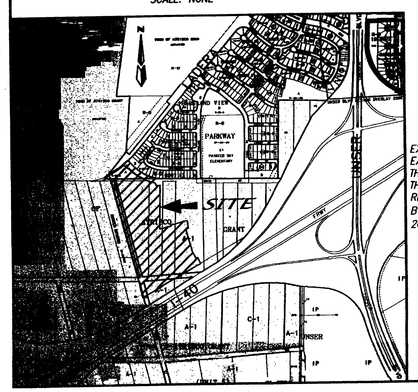
CURVE TABLE

NO.	RADIUS ARC	DELTA	TAN	CHORD BRG	CH
C1	323.00 33.16	05°52'58"	16.60	N 77°36'23" E	33.15
C2	1153.00 215.42	10°42'18"	108.03	N 59°39'39" E	215.11
C3	30.00 43.10	82°19'06"	26.23	N 84°31'57" W	39.49
C4	746.78 447.75	34°21'11"	230.83	N 60°33'00" W	441.08
C5	25.00 36.66	84°00'26"	22.51	N 35°43'22" W	33.46
C6	272.00 22.73	04°47'17"	11.37	N 03°02'32" E	22.72

BENCHMARK

ACS MONUMENT "REWARD"
ELEV. = 5316.951

ZONE ATLAS MAP # J-9
SCALE: NONE



LEGEND

- ● DENOTES FND REBAR WITH CAP "PS 11993"
- 1-P1 LOT NUMBER
- BLOCK 2 BLOCK NUMBER
- ▲ CENTER LINE MONUMENT
- R/W RIGHT-OF-WAY
- 5 UNIT NUMBER
- — — — — FLOOD PLAIN LIMITS

SUBDIVISION DATA

GROSS ACREAGE	23.4106 AC
ZONE ATLAS NO.	J-9-Z
NO. OF LOTS CREATED	122 LOTS
NO. OF TRACTS CREATED	1 TRACT
AREA DEDICATED TO CITY	5.2578 AC
ZONING	RLT
DATE OF SURVEY	DECEMBER 1999

NOTES

1. UNLESS OTHERWISE NOTED, ALL BOUNDARY CORNERS SHOWN THUS ○ SHALL BE MARKED BY A #5 REBAR W/CAP STAMPED PS#11993
2. ALL STREET CENTERLINE MONUMENTATION SHALL BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS, AND STREET INTERSECTIONS AND SHOWN THUS ▲, WILL BE MARKED BY A FOUR INCH (4") ALUMINUM CAP STAMPED:
   "CITY OF ALBUQUERQUE CENTERLINE MONUMENTATION"
   "DO NOT DISTURB"
   PS#11993"
3. BOUNDARY SHALL BE TIED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM AS SHOWN.
4. BASIS OF BEARING SHALL BE NEW MEXICO STATE PLANE GRID BEARINGS.
5. ALL DISTANCES SHALL BE GROUND DISTANCES.
6. MANHOLES WILL BE OFFSET AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY, STREET INTERSECTIONS, AND ALL OTHER ANGLE POINTS TO ALLOW USE OF CENTERLINE MONUMENTATION.
7. A 10' PRIVATE DRAINAGE EASEMENT IS CENTERED ON ALL COMMON SIDE LOT LINES AND ON REAR LOT LINES WHERE THEY ABUT THE SIDE YARD OF THE ADJACENT LOT.

100' 50' 0 100' 200'
SCALE: 1" = 100'

Owner: Westland Development

APPROVED FOR MONUMENTATION AND STREET NAMES

Barbara Page, Westland Development Co., Inc. — 4-16-02 DATE
President

City Surveyor, City of Albuquerque, N.M. — 4-16-02 Date

OWNERS

WESTLAND DEVELOPMENT
401 COORS NW
ALBUQUERQUE, N.M. 87121
(505) 831-9600

ENGINEERS

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

SURVEYOR

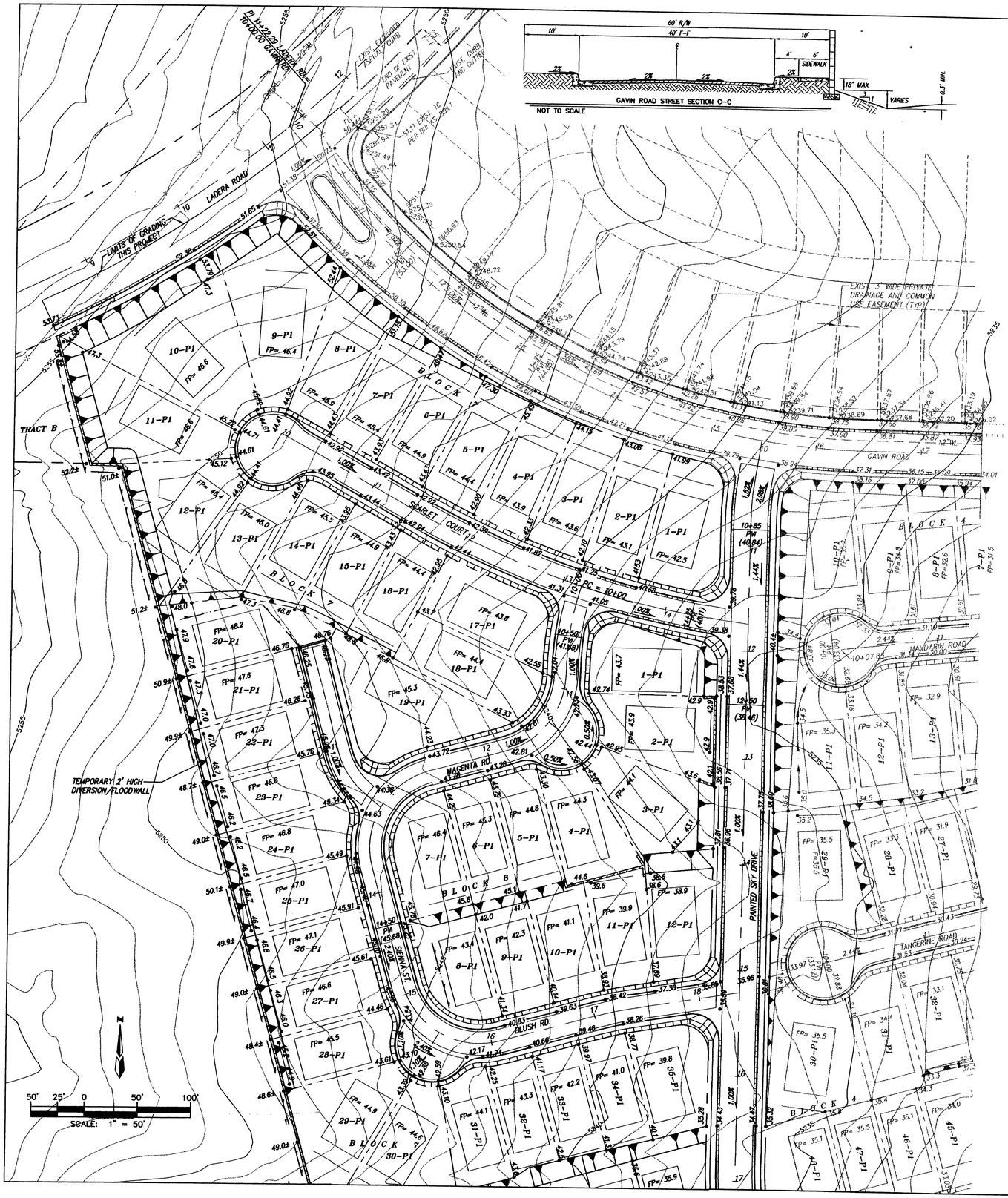
PRECISION SURVEY
8414-D JEFFERSON ST. NE
ALBUQUERQUE, N.M. 87113
(505) 856-5700

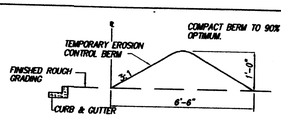
MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505)828-2200, FAX (505)797-9539

Designed: JDH	Drawn: RDQ	Checked: DMG	Sheet 1 of 1
Scale: 1" = 100'	Date: 04-15-02	Job: A02025	

RECEIVED
APR 2 2002
HYDROLOGY SECTION

F:\A02025\A02025PLAT.dwg, 04/16/02 08:33:49 AM, PLOTTED BY RDQ

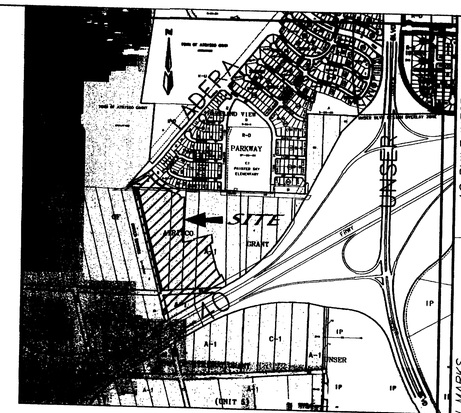




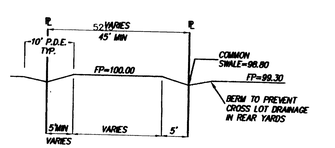
EROSION CONTROL BERM DETAIL
N.T.S.

EROSION CONTROL NOTES

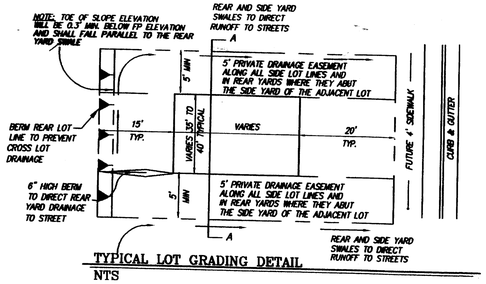
1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS, AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET, AND WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
5. THE EARTHWORK CONTACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOWLINE ELEVATIONS.



VICINITY MAP ZONE MAP: J-9
NOT TO SCALE



SECTION A-A
NTS



TYPICAL LOT GRADING DETAIL
NTS

LEGEND

NEW RETAINING WALL	5135 EXISTING CONTOUR
NEW GARDEN	TRACT/LOT BOUNDARY
21.01 TW / 18.31 BW TOP OF WALL / BOTTOM OF WALL	RIGHT OF WAY
FP= 30.38 FINISHED PAD ELEVATION	EASEMENTS
MOUNTABLE CURB & GUTTER	W PROPOSED WATERLINE
STANDARD 8" CURB & GUTTER	PROPOSED STORM DRAIN LINE
28.53• PROPOSED SPOT ELEVATION	SAS PROPOSED SANITARY SEWER
3:1 SLOPE	CENTERLINE OF ROAD
PROPOSED DRAINAGE BASIN	4' DEFERRED SIDEWALK
NEW FIRE HYDRANT	PROPOSED SWALE
NEW MH	28.53+ / 5256.45 EXISTING SPOT ELEVATIONS
20 LOT 20	POINT OF DISCHARGE FOR PRIVATE LOTS
GATE VALVE	40' STREET @ 1.0% Q_{100}= 41.84cfs, V_{100}= 3.7fps CAPACITY CALCS.
TEE	
BEND	LOT 6 MASTER PLAN AREA= 5.31 AC. Q Allowable= 8.85cfs BASIN FLOW CALCS.
NEW 2:1 SLOPE WITH GRAVEL	

SIDEWALK TO BE CONSTRUCTED 0.33' ABOVE TOP OF CURB. AS-BUILT CERTIFICATION REQUIRED FOR RELEASE OF FINANCIAL GUARANTEES.

A2025PS/A2025GD501.DWG/04-16-02 /RDQ

BENCH MARKS

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY: DATE
WORK INSPECTED & ACCEPTANCE BY: DATE
FIELD VERIFICATION BY: DATE
DRAWINGS CORRECTED BY: DATE

MICRO-FILM INFORMATION

RECORDED BY
NO. DATE

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°17'1"
G-G = 0.99987114
ELEVATION = 5316.951

ENGINEER'S SEAL

JAMES D. HUGHES 10278 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
4-16-02

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		JDH	09/00
DRAWN BY		KJS, ACH	09/00
CHECKED BY		DMG	09/00

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
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION UNITS 4, 5 & 6 AMENDED 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. J-9 | SHEET 1 OF 2

RECEIVED
APR 23 2002
HYD. SECTION

F:\A2025PS\A2025GD501.DWG, 04/16/02 11:11:09 AM, PLOTTED BY RDQ

BENCH MARKS

STATION "REHARD" IS LOCATED ABOUT 5 MILES WEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM INTERSECTION OF CENTRAL AVE. AND STATE RD. 448 GO WEST ON CENTRAL 1.8 MI. TO NOLASCO RD. ON RT. (98TH ST. ON U.S.) THEN NORTH ALONG NOLASCO RD. CROSSING OVER I-40, 1.0 MI. TO TRACK RD. LEFT (SW) THEN TAKE TRACK ROAD 0.1 MI. TO PYLON #PN 68 AND STATION TO LEFT. STATION IS STANDARD USC&GS BRASS TABLET STAMPED "REHARD, 1993". SET IN TOP OF A CONCRETE POST PROJECTING 0.1 FT. ABOVE GROUND.
Y = 350,944.85 X = 1,487,301.42 ELEV. = 5316.951 (NGVD 1929)

SURVEY INFORMATION

FIELD NOTES BY DATE NO.

AS BUILT INFORMATION

CONTRACTOR STAKED BY DATE
INSPECTION BY DATE
FIELD CHANGE BY
FIELD VERIFICATION BY DATE
AS BUILT BY
CORRECTED BY DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

ENGINEER'S SEAL

JAMES D. HUGHES
NEW MEXICO
10278
REGISTERED PROFESSIONAL ENGINEER
4-16-02

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY JDH	DATE 6/00
		DRAWN BY KJS	DATE 6/00
		CHECKED BY DMG	DATE 6/00

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
PAINTED SKY SUBDIVISION - UNIT 4, 5 & 6 AMENDED 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
658883	J-9	2 2

RECEIVED
JUN 25 2002
HYDROLOGY SECTION

SECTION S-S
SCALE: 1" = 5'

SECTION M-M
SCALE: 1" = 5'

SCALE: 1" = 50'

A2025PS/A2025TG502-A/04-16-02 RDQ

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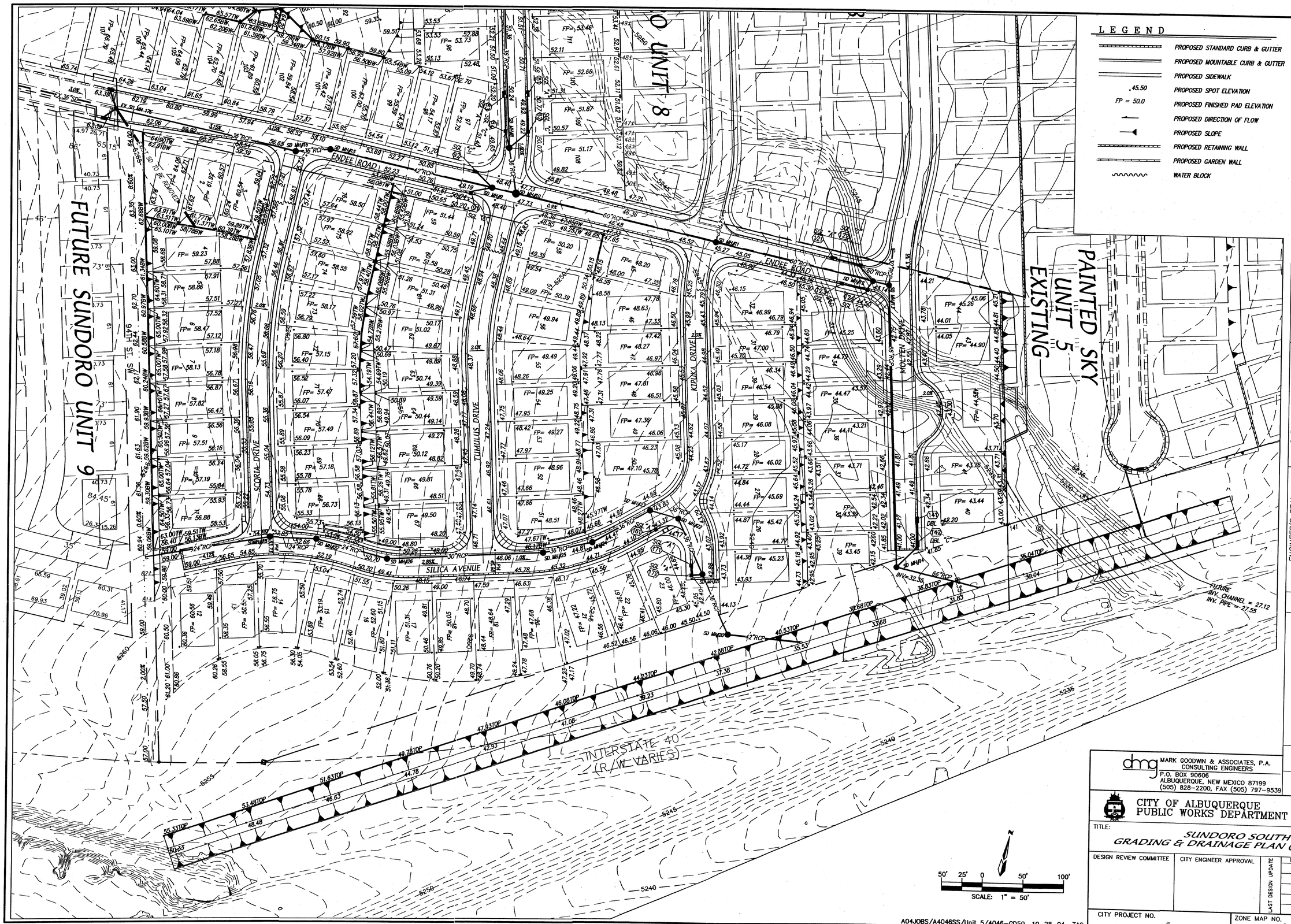

A.S BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
ACCEPTANCE		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE
RECORDED BY		
NO.		

BENCH MARKS

SURVEY INFORMATION

NO.	BY	DATE
FIELD NOTES		

ENGINEER'S SEAL

DONNIE HOELZER, NEW MEXICO, 11967, REGISTERED PROFESSIONAL ENGINEER

MICRO-FILM INFORMATION

NO.	DATE	REMARKS	BY
REVISIONS			
DESIGNED BY	DLH	DESIGN	DATE 10/04
DRAWN BY	TAS		DATE 10/04
CHECKED BY	DMG		DATE 10/04

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:

SUNDORO SOUTH
GRADING & DRAINAGE PLAN (ULTIMATE)

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

CITY PROJECT NO. -

ZONE MAP NO. J-8/9

SHEET 1 OF 1

A04JOBS/A4046SS/Unit 5/4046-GD50 10-28-04 TAS

A2025PS/A2025TG502-A/04-16-02 RDQ

AS BUILT INFORMATION

CONTRACTOR MELENDEZ CONC.
WORK STAKED BY PRECISION SURVEYS DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY PRECISION SURVEYS DATE
DRAWINGS CORRECTED BY PRECISION SURVEYS DATE

MICRO-FILM INFORMATION

RECORDED BY DATE
NO.

BENCH MARKS

STATION "REWARD" IS LOCATED ABOUT 5 MILES WEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM INTERSECTION OF CENTRAL AVE. AND STATE RD. 448 GO WEST ON CENTRAL 1.8 MI. TO NOLASCO RD. ON RT. (98TH ST. ON LT.), THEN NORTH ALONG NOLASCO RD. CROSSING OVER US I-40, 1.0 MI. TO TRACK RD. LEFT (SW), THEN TAKE TRACK ROAD 0.1 MI. TO PYLON #PM 68 AND STATION TO LEFT. STATION IS STANDARD USC&GS BRASS TABLET STAMPED "REWARD 1969", SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE GROUND.

X = 350,944.85 Y = 1,487,301.42 ELEV. = 5316.951 (SLD 1929)

SURVEY INFORMATION

FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES, NEW MEXICO, 11674, REGISTERED PROFESSIONAL ENGINEER

4-16-02

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	JDH	DATE	6/00
DRAWN BY	KJS	DATE	6/00
CHECKED BY	DMG	DATE	6/00

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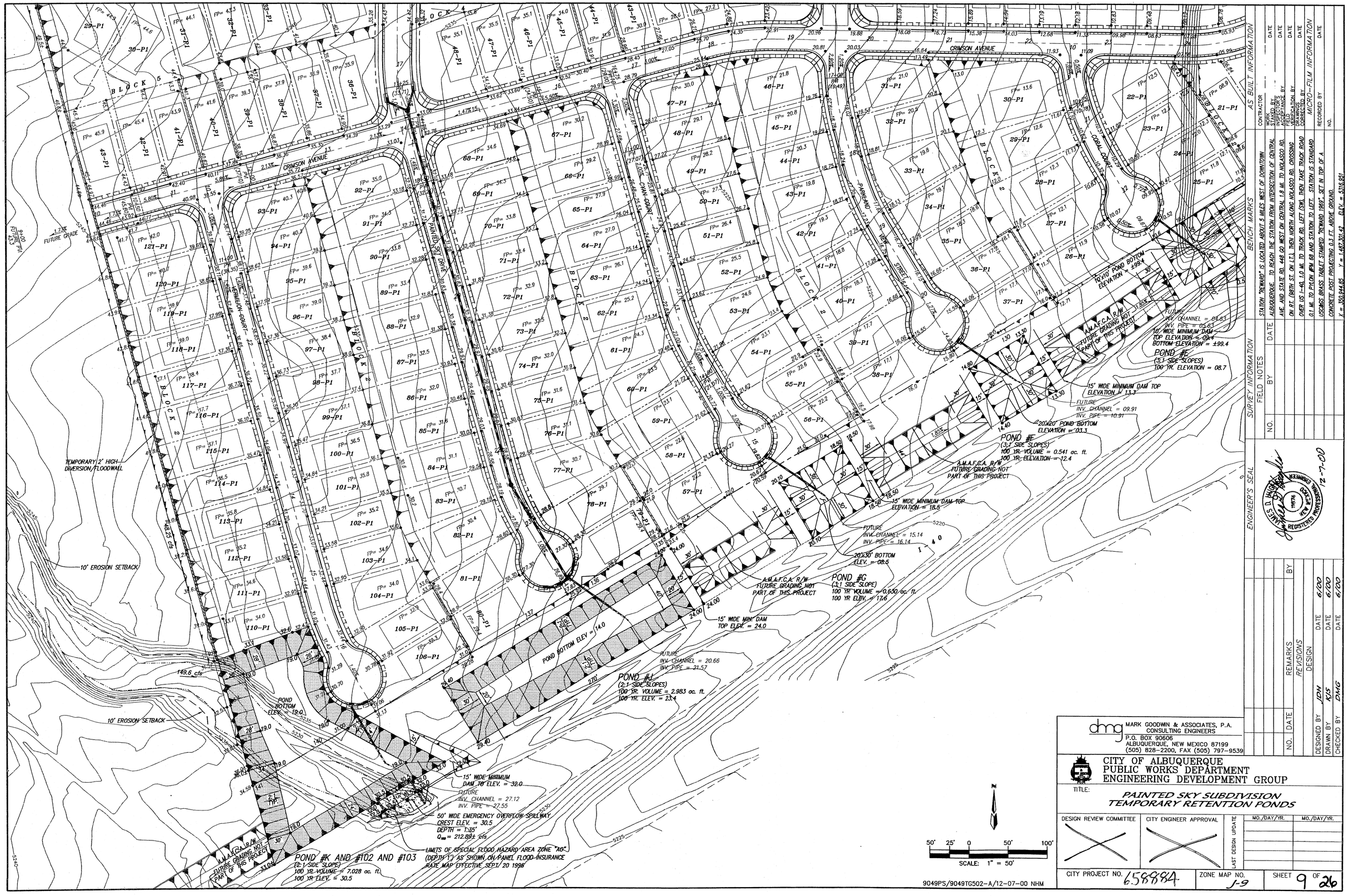
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION - UNIT 4, 5 & 6
AMENDED GRADING AND DRAINAGE PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
658885	J-9	6	16



SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

AS BUILT INFORMATION

CONTRACTOR ___ DATE ___
WORK STAKED BY ___ DATE ___
INSPECTOR'S FIELD CHANGE BY ___ DATE ___
VERIFICATION BY ___ DATE ___
CORRECTED BY ___ DATE ___
MICRO-FILM INFORMATION
RECORDED BY ___ DATE ___
NO. ___

BENCH MARKS

STATION "REWARD" IS LOCATED ABOUT 5 MILES WEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM INTERSECTION OF CENTRAL AVE. AND STATE RD. 448 GO WEST ON CENTRAL 1.8 MI. TO NOLASCO RD. ON RT. (98TH ST. ON L.T.), THEN NORTH ALONG NOLASCO RD. CROSSING OVER US I-40, 1.0 MI. TO TRACK RD. LEFT (SW), THEN TAKE TRACK ROAD 0.1 MI. TO P.I.N. #FN 68 AND STATION TO LEFT. STATION IS STANDARD USC&GS BRASS TABLET STAMPED "REWARD 1989". SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE GROUND.
X = 350,944.65 Y = 1,487,201.42 ELEV. = 5316.951

ENGINEER'S SEAL

WALES H. HAUGHEY
NEW MEXICO
7982
REGISTERED PROFESSIONAL ENGINEER
12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY		JDH	
DRAWN BY		KJS	
CHECKED BY		DMG	

DATE 6/00 DATE 6/00 DATE 6/00

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
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION
TEMPORARY RETENTION PONDS

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

CITY PROJECT NO. 658884 | ZONE MAP NO. J-9 | SHEET 9 OF 26

9049PS/9049TG503/12-07-00 ACH NHM

AS BUILT INFORMATION

CONTRACTOR

	BY	DATE
WORK STAKED BY		
ACCEPTANCE		
FIELD VERIFICATION BY		
FIELD VERIFICATION		
DRAWINGS CORRECTED BY		

MICRO-FILM INFORMATION

RECORDED BY	
NO.	DATE

BENCH MARKS

ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99967114
ELEVATION = 5316.951

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

SEAL

ENGINEER'S SEAL

JAMES D. HUGHES
NEW MEXICO
14014
REGISTERED PROFESSIONAL ENGINEER
12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY JDH	DATE 09/00
		DRAWN BY KJS, ACH	DATE 09/00
		CHECKED BY DMG	DATE 09/00

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

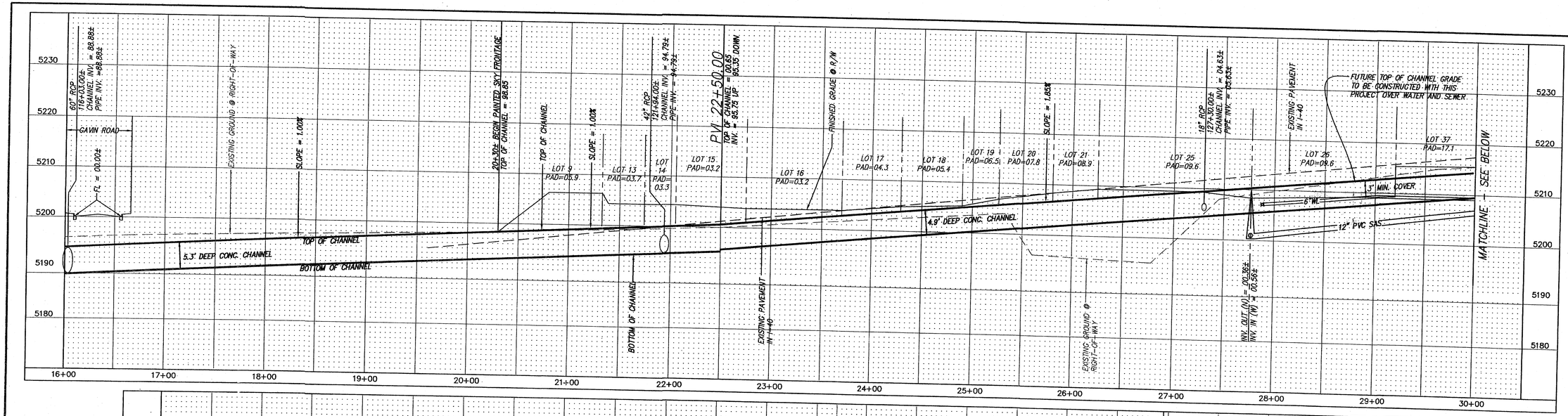
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

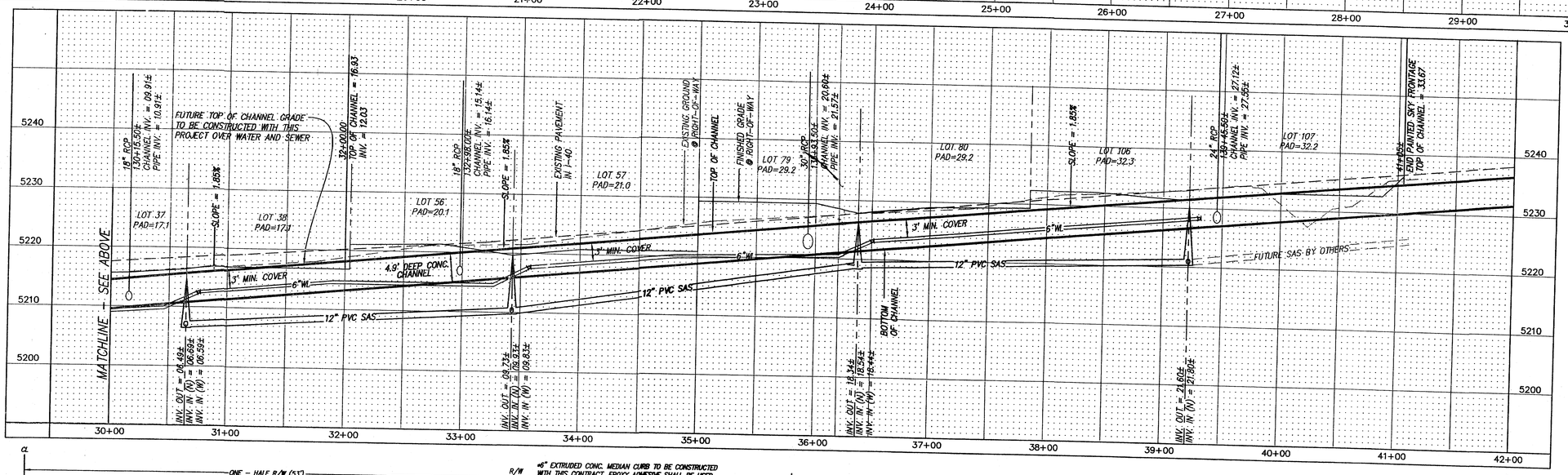
TITLE:

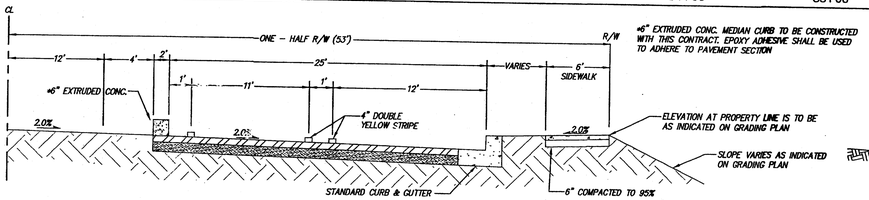
PAINTED SKY SUBDIVISION TEMPORARY RETENTION PONDS

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

CITY PROJECT NO. 658884 | ZONE MAP NO. J-9 | SHEET 10 OF 26

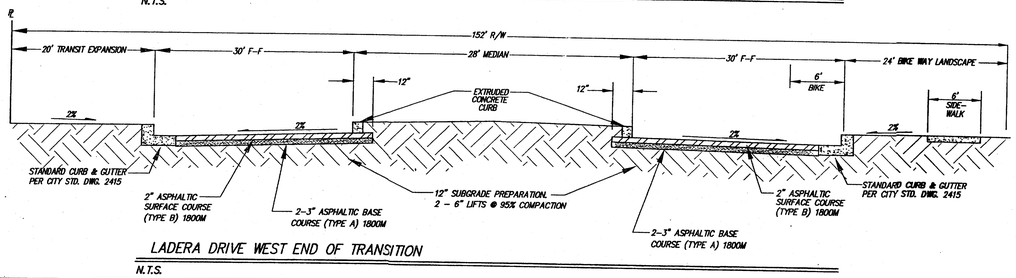






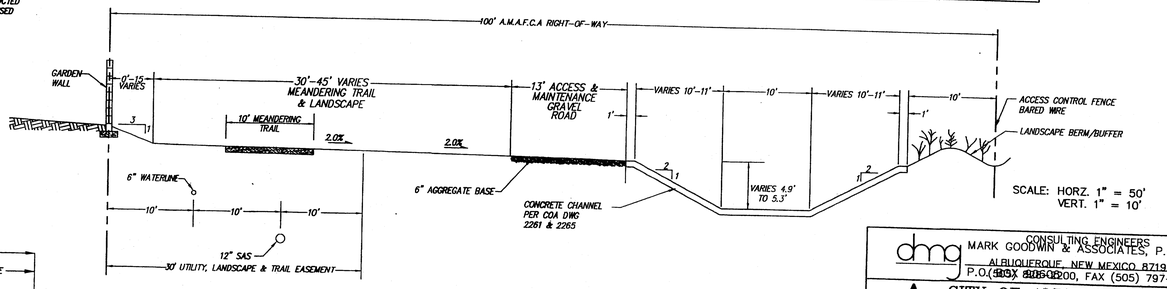
TYPICAL SECTION LADERA DRIVE 1/2 SECTION NORTH OF TRANSITION

N.T.S.



LADERA DRIVE WEST END OF TRANSITION

N.T.S.



TYPICAL SECTION B-B

SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

			EQUATION
SLOPE	1.85%	1.00%	
D	2.87'	3.37'	
V	24.59 FPS	19.69 FPS	
FREEBOARD	2.01'	1.92'	$0.7\ (2.0+0.025\ VD^{1/3})$
RADIUS		1250	
SUPERELEVATION	0.42'	0.23'	$1.3\ \frac{V^2(B+2ZD)}{gR}$
TOTAL	5.30'	5.52'	
Q_{100} =1113cfs		n=0.13	

FOR INFORMATION ONLY NOT FOR CONSTRUCTION

9049PS/I-40PPB/11-29-00 ACH KJS NHM

AS BUILT INFORMATION
CONTRACTOR Hydro-Res, Inc.
WORK STAKED BY Precision Surveys DATE 9-00
INSPECTED BY DATE
FIELD BOOK
FIELD DRAWINGS BY Precision Surveys DATE 9-00
CORRECTED BY DATE
MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS
ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99967114
ELEVATION = 5316.951

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

ENGINEER'S SEAL
DANIEL D. HUGHES 14729 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
11-30-00
Rev 12-7-00 DDH

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	JDH 09/00
		DESIGNED BY	DATE
		DRAWN BY	NHM ACH 09/00
		DRAWN BY	DATE
		CHECKED BY	DMG 09/00
		CHECKED BY	DATE

dmg CONSULTING ENGINEERS
MARK GOODWIN & ASSOCIATES, P.A.
ALBUQUERQUE, NEW MEXICO 87199
P.O. BOX 26307, 505-828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION
WEST INTERSTATE 40 DIVERSION CHANNEL
PROFILE AND TYPICAL SECTION

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

CITY PROJECT NO. 658884 | ZONE MAP NO. J-9 | SHEET 11 OF 26

PHASING PLAN

THE EARTHWORK WILL BE SPLIT INTO TWO MAJOR PHASES. UNITS 1, 2 AND 3 WILL ALL BE GRADED AT ONCE AS THE FIRST PHASE. THEN UNITS 4, 5 AND 6 WILL ALL BE GRADED AS THE SECOND PHASE. THE ULTIMATE DRAINAGE OUTFALL FOR ALL ON-SITE DRAINAGE WILL BE AMAFCA'S WEST I-40 DIVERSION CHANNEL WHICH MAY BEGIN CONSTRUCTION AS EARLY AS NOVEMBER 2001. PHASE 1 OF PAINTED SKIES IS EXPECTED TO BEGIN A YEAR EARLIER IN NOVEMBER 2000 AND WILL INCLUDE TEMPORARY RETENTION PONDS #D, E AND F SIZED FOR THE 100 YR., 10 DAY RUNOFF FROM THE DEVELOPED PORTIONS OF THE SITE, AND POND C WILL BE TEMPORARILY OVERSIZED TO RECEIVE THE 100 YR., 10 DAY RUNOFF (2.6 ACFT) FROM THE UNDEVELOPED LAND WEST OF UNITS 1, 2 AND 3 WHICH WILL BE DIVERTED INTO THE POND BY A TEMPORARY DIVERSION DIKE ALSO TO BE CONSTRUCTED WITH THE FIRST PHASE OF GRADING.

TEMPORARY DIVERSION DIKE (DD)

TEMPORARY DIVERSION DIKE

Construction Specifications

1. Temporary diversion dikes must be installed as a first step in the land-disturbing activity and must be functional prior to upslope land disturbance.
2. The dike should be adequately compacted to prevent failure.
3. Temporary or permanent seeding and mulch shall be applied to the dike immediately following its construction.
4. The dike should be located to minimize damages by construction operations and traffic.

Maintenance

The measure shall be inspected after every storm and repairs made to the dike, flow channel, outlet or sediment trapping facility, as necessary. Once every two weeks, whether a storm event has occurred or not, the measure shall be inspected and repairs made if needed. Damages caused by construction traffic or other activity must be repaired before the end of each working day.

LEGEND

- MOUNTABLE CURB & GUTTER
- STANDARD 6" CURB & GUTTER
- PROPOSED DRAINAGE BASIN
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- EASEMENTS
- W — PROPOSED WATERLINE
- SAS — PROPOSED SANITARY SEWER
- CENTERLINE OF ROAD
- EXISTING CURB AND GUTTER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER VALVE
- 8"W — EXISTING WATERLINE
- EXISTING FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- SAS — EXISTING SANITARY SEWER
- EXISTING EDGE OF PAVEMENT
- 4' DEFERRED SIDEWALK
- (DD) DIVERSION DIKE
- 20 LOT 20

LADERA ROAD
PARKLAND VIEW UNIT 2
EXIST. 3' WIDE PRIVATE DRAINAGE AND COMMON USE EASEMENT (TYP)
PARKLAND VIEW STREET
PAINTED SKY ELEMENTARY SCHOOL
PARKWAY UNIT 8
TRACT B
TRACT A
GAVIN ROAD
BLACK A
MANDARIN ROAD
TANGERINE ROAD
FLIVAL COURT
TRACT C
PUBLIC DRAINAGE EASEMENT FOR THE BENEFIT OF THE CITY OF ALBUQUERQUE FOR THE PURPOSE OF TEMPORARY RETENTION POND TO BE MAINTAINED BY WESTLAND.
EMERGENCY OVERFLOW SPILLWAY
Q_{100}=70.34 cfs
CREST ELEV. = 00.00
WIDTH = 50'
DEPTH = 3.65'
VELOCITY = 2.2 fps
POND #D
(3:1 SLOPES)
100 YR ELEV=89.4
100 YR VOLUME = 3.832 ac. ft.
APPROXIMATE LIMITS OF SPECIAL FLOOD HAZARD AREA ZONE "A" AS SHOWN ON A LETTER OF MAP REVISION, FEMA CASE# 97-06-1026P, EFFECTIVE SEPT. 25, 1997
10' x 10' POND BOTTOM ELEVATION = 89.4
10' WIDE MIN. DAM TOP ELEVATION = 09.4 BOTTOM ELEVATION = 89.4
FUTURE INV. CHANNEL = 01.48 INV. PIPE = 08.00
POND #E
(3:1 SIDE SLOPES)
100 YR ELEV = 08.7
100 YR VOLUME = 0.375 ac. ft.
15' WIDE MIN. DAM TOP ELEVATION = 13.3
FUTURE INV. CHANNEL = 06.7 INV. PIPE = 09.27
20' x 20' POND BOTTOM ELEVATION = 03.3
POND #F
(3:1 SIDE SLOPES)
100 YR ELEV = 08.7
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT
15' WIDE MIN. DAM TOP ELEVATION = 18.6
20' x 30' POND BOTTOM ELEVATION = 08.5
POND #C
(3:1 SIDE SLOPES)
100 YR ELEV. = 17.6
100 YR VOLUME = 0.630 ac. ft.
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT
15' WIDE MIN. DAM TOP ELEVATION = 24.0
10' EROSION SETBACK
ENDEE RD.
POND #J
(2:1 SIDE SLOPES)
100 YR ELEV. = 23.4
100 YR VOLUME = 2.983 ac. ft.
15' WIDE MIN. DAM TOP ELEVATION = 29.4
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT
LIMITS OF SPECIAL FLOOD HAZARD AREA ZONE "AO" (DEPTH 1') AS SHOWN ON PANEL FLOOD INSURANCE RATE MAP EFFECTIVE SEPT. 20 1996

N

100' 50' 0 100' 200'
SCALE: 1" = 100'

99049PS/9049GDALL/09-18-00/ACH

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS

"ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99967114
ELEVATION = 5316.951

AS BUILT INFORMATION

CONTRACTOR Hinkle's Inc. DATE 9-1-00
WORK STAKED BY Precision Surveys DATE 9-1-00
INSPECTOR'S ACCEPTANCE BY: DATE
AS BUILT VERIFICATION BY: Precision Surveys DATE 11-13-00
DRAWINGS CORRECTED BY DATE
DRAWINGS CORRECTED BY MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL
JAMES D. HUGHES
NEW MEXICO 11624
REGISTERED PROFESSIONAL ENGINEER
Rev 11-13-00
Rev 12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
	DATE 09/00	DESIGNED BY JDH	
	DATE 09/00	DRAWN BY ACH	
	DATE 09/00	CHECKED BY DMG	

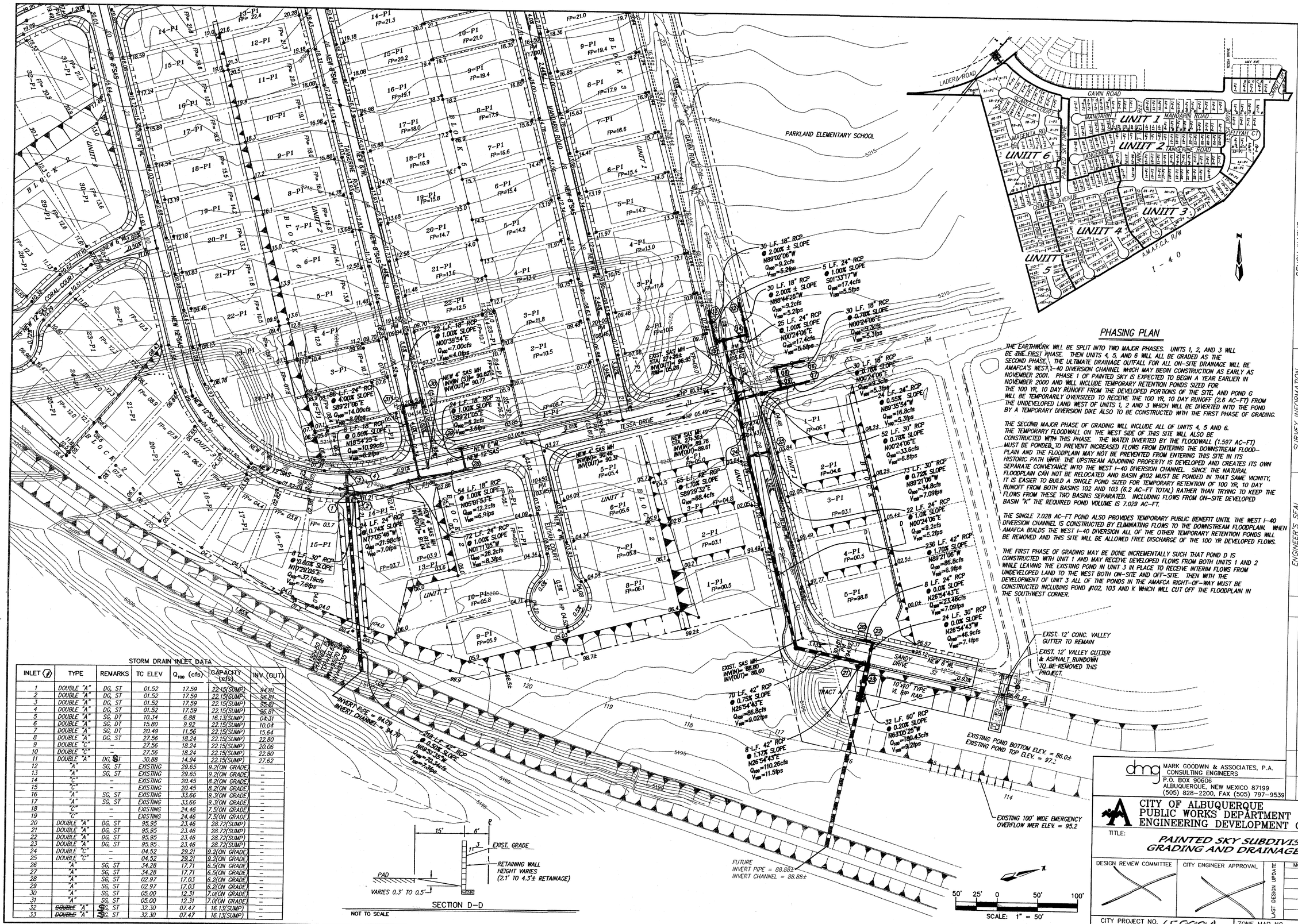
dmg MARK GOODWIN & ASSOCIATES, P.A.
CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION
MASTER GRADING & DRAINAGE PLAN
PHASE 1 GRADING

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

CITY PROJECT NO. 658884 | ZONE MAP NO. C-20-Z | SHEET 12 OF 26



PHASING PLAN

THE EARTHWORK WILL BE SPLIT INTO TWO MAJOR PHASES. UNITS 1, 2, AND 3 WILL BE THE FIRST PHASE. THEN UNITS 4, 5, AND 6 WILL ALL BE GRADED AS THE SECOND PHASE. THE ULTIMATE DRAINAGE OUTFALL FOR ALL ON-SITE DRAINAGE WILL BE AMAFCA'S WEST I-40 DIVERSION CHANNEL WHICH MAY BEGIN CONSTRUCTION AS EARLY AS NOVEMBER 2001. PHASE 1 OF PAINTED SKY IS EXPECTED TO BEGIN A YEAR EARLIER IN NOVEMBER 2000 AND WILL INCLUDE TEMPORARY RETENTION PONDS SIZED FOR THE 100 YR, 10 DAY RUNOFF FROM THE DEVELOPED PORTIONS OF THE SITE, AND POND G WILL BE TEMPORARILY OVERSIZED TO RECEIVE THE 100 YR, 10 DAY RUNOFF (2.6 AC-FT) FROM THE UNDEVELOPED LAND WEST OF UNITS 1, 2 AND 3 WHICH WILL BE DIVERTED INTO THE POND BY A TEMPORARY DIVERSION DIKE ALSO TO BE CONSTRUCTED WITH THE FIRST PHASE OF GRADING.

THE SECOND MAJOR PHASE OF GRADING WILL INCLUDE ALL OF UNITS 4, 5 AND 6. THE TEMPORARY FLOODWALL ON THE WEST SIDE OF THIS SITE WILL ALSO BE CONSTRUCTED WITH THIS PHASE. THE WATER DIVERTED BY THE FLOODWALL (1.597 AC-FT) MUST BE PONDED TO PREVENT INCREASED FLOWS FROM ENTERING THE DOWNSTREAM FLOOD-PLAIN AND THE FLOODPLAIN MAY NOT BE PREVENTED FROM ENTERING THIS SITE IN ITS HISTORIC PATH UNTIL THE UPSTREAM ADJOINING PROPERTY IS DEVELOPED AND CREATES ITS OWN SEPARATE CONVEYANCE INTO THE WEST I-40 DIVERSION CHANNEL. SINCE THE NATURAL FLOODPLAIN CAN NOT BE RELOCATED AND BASIN #102 MUST BE PONDED IN THAT SAME VICINITY, IT IS EASIER TO BUILD A SINGLE POND SIZED FOR TEMPORARY RETENTION OF 100 YR, 10 DAY RUNOFF FROM BOTH BASINS 102 AND 103 (6.2 AC-FT TOTAL) RATHER THAN TRYING TO KEEP THE FLOWS FROM THESE TWO BASINS SEPARATED. INCLUDING FLOWS FROM ON-SITE DEVELOPED BASIN "K" THE REQUIRED POND VOLUME IS 7.029 AC-FT.

THE SINGLE 7.028 AC-FT POND ALSO PROVIDES TEMPORARY PUBLIC BENEFIT UNTIL THE WEST I-40 DIVERSION CHANNEL IS CONSTRUCTED BY ELIMINATING FLOWS TO THE DOWNSTREAM FLOODPLAIN. WHEN AMAFCA BUILDS THE WEST I-40 DIVERSION ALL OF THE OTHER TEMPORARY RETENTION PONDS WILL BE REMOVED AND THIS SITE WILL BE ALLOWED FREE DISCHARGE OF THE 100 YR DEVELOPED FLOWS.

THE FIRST PHASE OF GRADING MAY BE DONE INCREMENTALLY SUCH THAT POND D IS CONSTRUCTED WITH UNIT 1 AND MAY RECEIVE DEVELOPED FLOWS FROM BOTH UNITS 1 AND 2 WHILE LEAVING THE EXISTING POND IN UNIT 3 IN PLACE TO RECEIVE INTERIM FLOWS FROM UNDEVELOPED LAND TO THE WEST BOTH ON-SITE AND OFF-SITE. THEN WITH THE DEVELOPMENT OF UNIT 3 ALL OF THE PONDS IN THE AMAFCA RIGHT-OF-WAY MUST BE CONSTRUCTED INCLUDING POND #102, 103 AND K WHICH WILL CUT OFF THE FLOODPLAIN IN THE SOUTHWEST CORNER.

STORM DRAIN INLET DATA

INLET (#)	TYPE	REMARKS	TC ELEV	Q_{100} (cfs)	CAPACITY (cfs)	INV (OUT)
1	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	94.81
2	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	96.81
3	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	95.81
4	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	96.81
5	DOUBLE "A"	SG, DT	10.34	6.88	16.13(SUMP)	04.31
6	DOUBLE "A"	SG, DT	15.80	9.92	22.15(SUMP)	10.04
7	DOUBLE "A"	SG, DT	20.49	11.56	22.15(SUMP)	15.64
8	DOUBLE "A"	DG, ST	27.56	18.24	22.15(SUMP)	22.80
9	DOUBLE "C"	–	27.56	18.24	22.15(SUMP)	20.06
10	DOUBLE "C"	–	27.56	18.24	22.15(SUMP)	22.80
11	DOUBLE "A"	DG, ST	30.88	14.94	22.15(SUMP)	27.62
12	"A"	SG, ST	EXISTING	29.65	9.2(ON GRADE)	–
13	"A"	SG, ST	EXISTING	29.65	9.2(ON GRADE)	–
14	"C"	–	EXISTING	20.45	8.2(ON GRADE)	–
15	"C"	–	EXISTING	20.45	8.2(ON GRADE)	–
16	"A"	SG, ST	EXISTING	33.66	9.3(ON GRADE)	–
17	"A"	SG, ST	EXISTING	33.66	9.3(ON GRADE)	–
18	"C"	–	EXISTING	24.46	7.5(ON GRADE)	–
19	"C"	–	EXISTING	24.46	7.5(ON GRADE)	–
20	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
21	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
22	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
23	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
24	DOUBLE "C"	–	04.52	29.21	9.2(ON GRADE)	–
25	DOUBLE "C"	–	04.52	29.21	9.2(ON GRADE)	–
26	"A"	SG, ST	34.28	17.71	6.5(ON GRADE)	–
27	"A"	SG, ST	34.28	17.71	6.5(ON GRADE)	–
28	"A"	SG, ST	02.97	17.03	6.2(ON GRADE)	–
29	"A"	SG, ST	02.97	17.03	6.2(ON GRADE)	–
30	"A"	SG, ST	05.00	12.31	7.0(ON GRADE)	–
31	"A"	SG, ST	05.00	12.31	7.0(ON GRADE)	–
32	~~DOUBLE~~ "A"	SG, ST	32.30	07.47	16.13(SUMP)	–
33	~~DOUBLE~~ "A"	SG, ST	32.30	07.47	16.13(SUMP)	–

AS BUILT INFORMATION

BENCH MARKS

SURVEY INFORMATION

NO.	FIELD NOTES BY	DATE

ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99967114
ELEVATION = 5316.851

CONTRACTOR Rhoades, Inc. DATE
WORK STAKED BY Precision Surveys, Inc. DATE
ACCEPTANCE BY DATE
FIELD VERIFICATION BY Precision Surveys, Inc. DATE
DRAWINGS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

ENGINEER'S SEAL

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 09/00
		DESIGNED BY JCH	DATE 09/00
		DRAWN BY KJS, ACH	DATE 09/00
		CHECKED BY DMG	DATE 09/00

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
ENGINEERING DEVELOPMENT GROUP

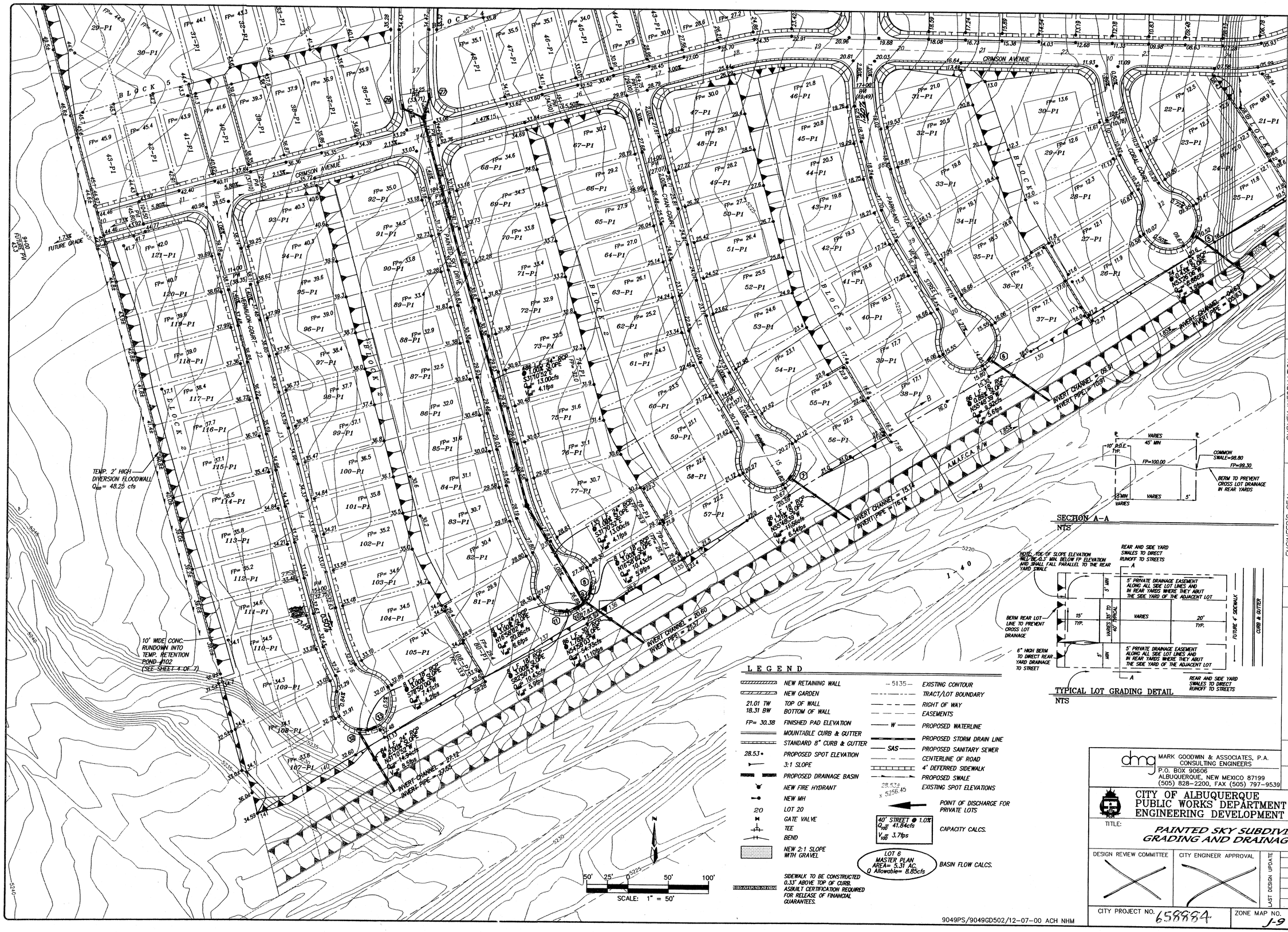
TITLE:
PAINTED SKY SUBDIVISION
GRADING AND DRAINAGE PLAN

J-09/014

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

CITY PROJECT NO. 658884 | ZONE MAP NO. J-9 | SHEET 8 OF 26

9049PS/9049GD503/12-07-00 ACH NHM



SECTION A-A

NTS

TYPICAL LOT GRADING DETAIL

NTS

LEGEND

NEW RETAINING WALL	5135 EXISTING CONTOUR
NEW GARDEN	TRACT/LOT BOUNDARY
21.01 TW / 18.31 BW — TOP OF WALL / BOTTOM OF WALL	RIGHT OF WAY
FP= 30.38 — FINISHED PAD ELEVATION	EASEMENTS
MOUNTABLE CURB & GUTTER	W — PROPOSED WATERLINE
STANDARD 8" CURB & GUTTER	PROPOSED STORM DRAIN LINE
28.53+ PROPOSED SPOT ELEVATION	SAS — PROPOSED SANITARY SEWER
3:1 SLOPE	CENTERLINE OF ROAD
PROPOSED DRAINAGE BASIN	4' DEFERRED SIDEWALK
NEW FIRE HYDRANT	PROPOSED SWALE
NEW MH	28.53+ / x 5256.45 EXISTING SPOT ELEVATIONS
20 LOT 20	POINT OF DISCHARGE FOR PRIVATE LOTS
GATE VALVE	40' STREET @ 1.0% Q_{100}= 41.84cfs V_{100}= 3.7fps — CAPACITY CALCS.
TEE	
BEND	LOT 6 MASTER PLAN AREA= 5.31 AC. Q Allowable= 8.85cfs — BASIN FLOW CALCS.
NEW 2:1 SLOPE WITH GRAVEL	
SIDEWALK TO BE CONSTRUCTED 0.33' ABOVE TOP OF CURB. ASBUILT CERTIFICATION REQUIRED FOR RELEASE OF FINANCIAL GUARANTEES.	

9049PS/9049GD502/12-07-00 ACH NHM

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

STATION "PAINTED" IS LOCATED ABOUT 3 MILES WEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM INTERSECTION OF CENTRAL AVE. AND STATE RD. 448 GO WEST ON CENTRAL 1.8 MI. TO NOLASCO RD. ON MT. (90TH ST. ON U.S.). THEN NORTH ALONG NOLASCO RD. CROSSING OVER U.S.—40, 1.0 MI. TO TRACK RD. LEFT (SW), THEN TAKE TRACK ROAD 0.1 MI. TO PYLON #PM 68 AND STATION TO LEFT. STATION IS STANDARD USC&GS BRASS TABLET STAMPED "PAINTED 1966", SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE GROUND.

X = 1530344.85 Y = 1,487,101.42 ELEV. = 5316.951

AS BUILT INFORMATION

CONTRACTOR — DATE:

WORK STARTED BY: — DATE:

INSPECTOR'S FIELD TAKANCE BY: — DATE:

VERIFICATION BY: — DATE:

AS BUILTS CORRECTED BY: — DATE:

MICRO-FILM INFORMATION

RECORDED BY — DATE

NO.

ENGINEER'S SEAL

JAMES D. FAUBION, NEW MEXICO, 14674, REGISTERED PROFESSIONAL ENGINEER — 12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY JDH	DATE 09/00
		DRAWN BY KJS, ACH	DATE 09/00
		CHECKED BY DMG	DATE 09/00

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
ENGINEERING DEVELOPMENT GROUP

TITLE:

PAINTED SKY SUBDIVISION GRADING AND DRAINAGE PLAN

DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	NO./DAY/YR.	NO./DAY/YR.

CITY PROJECT NO. 658884 — ZONE MAP NO. J-9 — SHEET 7 OF 26

SUNDORO UNIT 6 CHANNEL

PROPOSED PROFILE

STA. 10+00.00 TO STA. 21+00.00
SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

NGVD 29

BOUNDARY TO PAINTED SKY. PT. (A)

Channel Slope = 1.85%

21+00	20+00	19+00	18+00	17+00	16+00	15+00	14+00	13+00	12+00	11+00	10+00
50.33	48.48	46.63	44.78	42.93	41.08	39.23	37.38	35.53	33.68	31.83	30.00
5240.7	5241.5	5242.1	5243.0	5247.0	5245.5	5244.5	5243.3	5242.6	5243.2	5244.4	5245.3	5246.0	5246.5	5245.1

A04JOBS/A4046SS/Unit 6/KIPUKA-PP8-ALT 3-15-05 TAS

LEGEND

- PROPOSED STANDARD CURB & GUTTER
- PROPOSED MOUNTABLE CURB & GUTTER
- PROPOSED SIDEWALK
- .45.50 PROPOSED SPOT ELEVATION
- FP = 50.0 PROPOSED FINISHED PAD ELEVATION
- PROPOSED DIRECTION OF FLOW
- PROPOSED SLOPE
- PROPOSED RETAINING WALL
- PROPOSED GARDEN WALL
- WATER BLOCK

SILICA AVENUE

INTERSTATE 40 (R/W VARIES)

FUTURE INV. CHANNEL = 27.12
INV. PIPE = 27.55

50' 25' 0 50' 100'
SCALE: 1" = 50'

A04JOBS/A4046SS/Unit 5/4046-GD50 10-28-04 TAS

AS BUILT INFORMATION

CONTRACTOR
WORK STARTED BY — DATE
INSPECTORS — DATE
FIELD TOLERANCE BY — DATE
VERIFICATION BY — DATE
CORRECTIONS MADE BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

DANE HOELZER — NEW MEXICO — 14980 — REGISTERED PROFESSIONAL ENGINEER
10-28-04

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY DLH	DATE 10/04
		DRAWN BY TAS	DATE 10/04
		CHECKED BY DMG	DATE 10/04

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

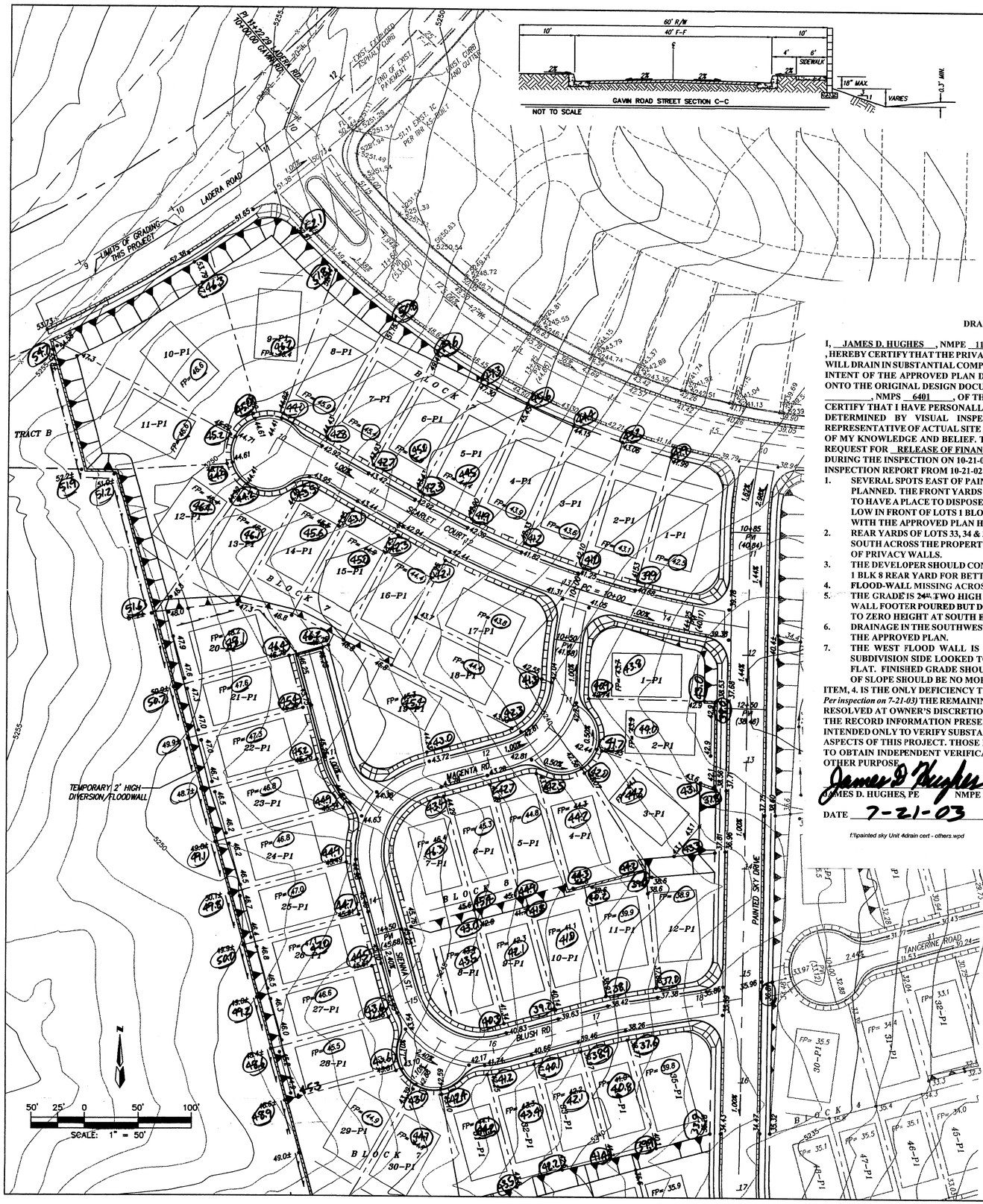
TITLE:
SUNDORO SOUTH
GRADING & DRAINAGE PLAN (ULTIMATE)

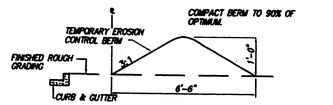
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. -

ZONE MAP NO. J-8/9

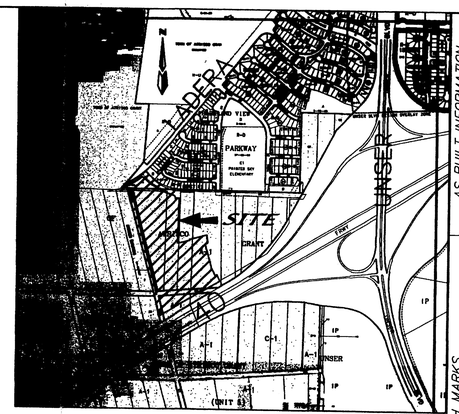
SHEET 1 OF 1





EROSION CONTROL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS, AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET, AND WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
5. THE EARTHWORK CONTACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOWLINE ELEVATIONS.



VICINITY MAP ZONE MAP: J-9

NOT TO SCALE

DRAINAGE CERTIFICATION

I, JAMES D. HUGHES, NMPE 11674, OF THE FIRM MARK GOODWIN & ASSOCIATES, HEREBY CERTIFY THAT THE PRIVATE PORTION OF THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 4-16-02. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY STEVE WALKER, NMPS 6401, OF THE FIRM WALKER SURVEYING ON 8-28-02. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 10-21-02 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.

DURING THE INSPECTION ON 10-21-02 THE FOLLOWING EXCEPTION WERE NOTED.

INSPECTION REPORT FROM 10-21-02

1. SEVERAL SPOTS EAST OF PAINTED SKY PLACE WERE MORE THAN 18" LOWER THAN PLANNED. THE FRONT YARDS WERE INTENTIONALLY LEFT LOW FOR THE BUILDERS TO HAVE A PLACE TO DISPOSE OF FOOTER EXCAVATION (SEE LOT 73 BLOCK 2). ALSO LOW IN FRONT OF LOTS 1 BLOCK 8, AND LOT 7 BLOCK 7. SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN HAS BEEN ACHIEVED.
2. REAR YARDS OF LOTS 33, 34 & 35 BLOCK 7 AND LOT 5 BLK 8 WERE LOW AND DRAINED SOUTH ACROSS THE PROPERTY LINE. BUILDER WILL RESOLVE WITH CONSTRUCTION OF PRIVACY WALLS.
3. THE DEVELOPER SHOULD CONSIDER ADDING SOME RETAINING WALL AROUND LOT 1 BLK 8 REAR YARD FOR BETTER PRIVACY AND BETTER ENTRANCE.
4. FLOOD-WALL MISSING ACROSS CRIMSON AT WEST PROPERTY LINE.
5. THE GRADE IS 24" TWO HIGH IN AMAFCA R/W SOUTH WEST CORNER LOT 57 ~~BLK 2~~. WALL FOOTER POURED BUT DOES NOT EXTEND INTO AMAFCA R/W. NEEDS TO TAPER TO ZERO HEIGHT AT SOUTH END AT ELEVATION 23.4.
6. DRAINAGE IN THE SOUTHWEST CORNER OF UNIT 5 WAS SLIGHTLY DIFFERENT THAN THE APPROVED PLAN.
7. THE WEST FLOOD WALL IS APPARENTLY COMPLETE, BUT THE SLOPE ON THE SUBDIVISION SIDE LOOKED TOO ROUGH, LOOSE AND LOW. IT ALSO LOOKED TOO FLAT. FINISHED GRADE SHOULD BE THE SAME ON BOTH SIDES OF THE WALL. TOE OF SLOPE SHOULD BE NO MORE THEN 10' FROM THE WALL.

ITEM, 4. IS THE ONLY DEFICIENCY THAT MUST BE RESOLVED PRIOR TO RELEASE. *(Resolved Per inspection on 7-21-03)* THE REMAINING ITEMS ARE MOSTLY INFORMATIONAL AND WILL BE RESOLVED AT OWNER'S DISCRETION.

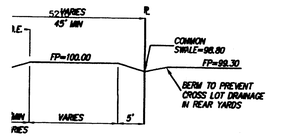
THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING AND DRAINAGE ASPECTS OF THIS PROJECT. THOSE RELYING ON THIS RECORD DOCUMENT ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY OTHER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

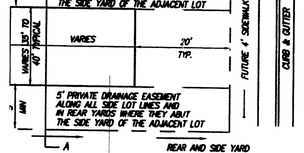
JAMES D. HUGHES, PE NMPE 11674

DATE 7-21-03

f:\painted sky Unit 4\drain cert - others.wpd

(SEAL) JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER





T GRADING DETAIL

NEW RETAINING WALL
NEW GARDEN
21.01 TW / 18.31 BW TOP OF WALL / BOTTOM OF WALL
FP= 30.38 FINISHED PAD ELEVATION
MOUNTABLE CURB & GUTTER
STANDARD 8" CURB & GUTTER
28.53+ PROPOSED SPOT ELEVATION
3:1 SLOPE
PROPOSED DRAINAGE BASIN
NEW FIRE HYDRANT
NEW MH
20 LOT 20
GATE VALVE
TEE
BEND
NEW 2:1 SLOPE WITH GRAVEL
SIDEWALK TO BE CONSTRUCTED 0.33' ABOVE TOP OF CURB. AS-BUILT CERTIFICATION REQUIRED FOR RELEASE OF FINANCIAL GUARANTEES.

-5135- EXISTING CONTOUR
TRACT/LOT BOUNDARY
RIGHT OF WAY
EASEMENTS
W PROPOSED WATERLINE
PROPOSED STORM DRAIN LINE
SAS PROPOSED SANITARY SEWER
CENTERLINE OF ROAD
4' DEFERRED SIDEWALK
PROPOSED SWALE
28.53+ x 5256.45 EXISTING SPOT ELEVATIONS
POINT OF DISCHARGE FOR PRIVATE LOTS
40' STREET @ 1.0% Q_{100} = 41.84cfs V_{100} = 3.7fps CAPACITY CALCS.
LOT 6 MASTER PLAN. AREA= 5.31 AC. Q Allowable= 8.85cfs BASIN FLOW CALCS.

A2025PS/A2025GD501.DWG/04-16-02 ,RDQ

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS

ACS MONUMENT "REYMARD"	
N.M. STATE PLANE COORDINATES	
(CENTRAL ZONE) NAD 27	
X = 350944.85 Y = 1497301.42	
DELTA ALPHA = -01°11'	
G-G = 0.99967714	
ELEVATION = 5316.951	

AS BUILT INFORMATION

CONTRACTOR	DATE
WORK STAKED BY	
INSPECTOR'S DRAWING BY	DATE
FIELD VERIFICATION BY	DATE
CORRECTED BY	DATE
MICRO-FILM INFORMATION	
RECORDED BY	DATE
NO.	

ENGINEER'S SEAL

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
4-16-02

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY JDH	DATE 09/00
		DRAWN BY KJS, ACH	DATE 09/00
		CHECKED BY DMG	DATE 09/00

RECEIVED JUL 22 2003 HYDROLOGY SECTION

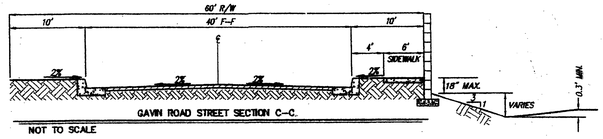
dmg MARK GOODWIN & ASSOCIATES, P.A. CONSULTING ENGINEERS
P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION UNITS 4, 5 & 6 AMENDED GRADING AND DRAINAGE PLAN

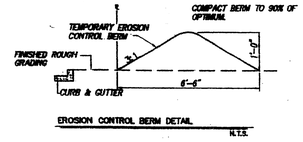
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO. | ZONE MAP NO. J-9 | SHEET 1 OF 2



GAVIN ROAD STREET SECTION C–C.

NOT TO SCALE

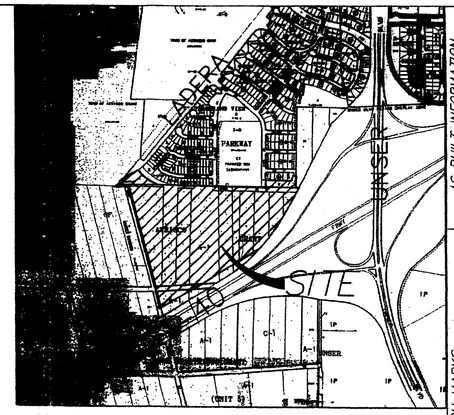


EROSION CONTROL BERM DETAIL.

N.T.S.

EROSION CONTROL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS, AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET, AND WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
5. THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOWLINE ELEVATIONS.



VICINITY MAP ZONE MAP: J-9

NOT TO SCALE

AS BUILT INFORMATION

CONTRACTOR

WORK STAKED BY — DATE

ACCEPTANCE BY — DATE

FIELD VERIFICATION BY — DATE

DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE

NO.

BENCH MARKS

AGS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -0°17'11"
C-G = 0.99967714
ELEVATION = 5376.951

SURVEY INFORMATION

FIELD NOTES BY — DATE

NO.

ENGINEER'S SEAL

JAMES D. HUGHES 10674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

11-27-00

Rev. 11-30-00 NLH

Rev. 12-7-00 JDH

ENGINEER'S CERTIFICATION (PAINTED SKY UNIT 3)

I, JAMES D. HUGHES, PE #10674, HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE UNIT 3 PRIVATE GRADING AND DRAINAGE INCLUDING ALL ASSOCIATED PONDS HAS BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS, EXCEPT THAT NATIVE SEED AND GRAVEL MULCH AND CHAIN LINK FENCE AT POND NOS. 4, 5 AND 6 HAVE ALSO BEEN GRADED BUT ALL WALLS ARE MISSING INCLUDING THE FLOOD WALL ON THE WEST PROPERTY LINE. IN THE OPINION OF THE UNDERSIGNED, THE WORK IS SUFFICIENTLY COMPLETE SUCH THAT IN THE EVENT OF A 100 YEAR STORM EVENT THE PONDS WILL FUNCTION AS INTENDED AND THE PROPERTY WILL BE PROTECTED FROM FLOODING. THIS CERTIFICATION IS BASED ON AS-BUILT ELEVATIONS FOR THE PONDS AND PROPERTY CORNERS PROVIDED BY WALKER SURVEYING ON 11-9-00 AND BASED ON AS-BUILT SURVEY OF THE PONDS PROVIDED BY PRECISION SURVEY ON 10-05-02. IT IS ALSO BASED ON FIELD INSPECTION MADE ON 3-1-02 FOR THE WALLS, PADS, AND LOT CORNERS AND INSPECTION ON 5-8-02 FOR THE COMPLETION OF THE POND GRADING AND SEAL WAYS FOR [illegible] LOTS 28 and 29 [illegible]

Mulching is Complete per plan James D. Hughes 2-4-03

JAMES D. HUGHES 10674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS
	09/00	REVISIONS
	09/00	DESIGN
	09/00	DESIGNED BY JDH
		DRAWN BY KJS ACH
		CHECKED BY DMG

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
ENGINEERING DEVELOPMENT GROUP

TITLE: ENGINEER'S CERTIFICATION UNIT 3
PAINTED SKY SUBDIVISION
GRADING AND DRAINAGE PLAN

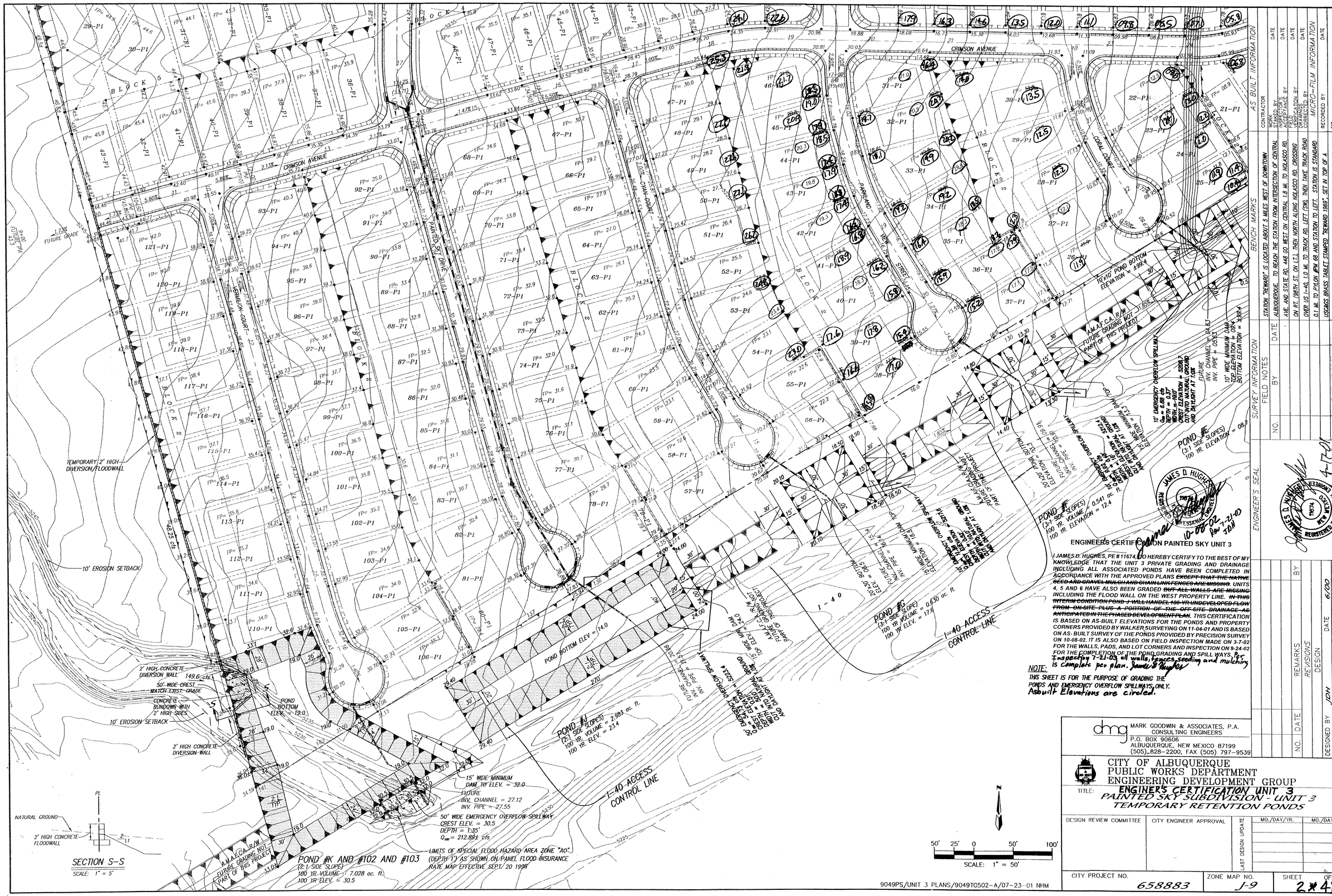
RECEIVED
JUL 22 2003
HYDROLOGY SECTION

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

CITY PROJECT NO. 6588.83 | ZONE MAP NO. J-9 | SHEET 164 OF 176

9049PS/9049GD01/09-18-00 NLH ACH

Approved by DRB... For Information Only



SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

STATION "PAINTED" IS LOCATED ABOUT 5 MILES WEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM INTERSECTION OF CENTRAL AVE. AND STATE RD. 448 GO WEST ON CENTRAL 1.8 MI. TO NOLASCO RD. ON RT. (98TH ST. ON L.I.), THEN NORTH ALONG NOLASCO RD. CROSSING OVER I-40, 1.0 MI. TO TRACK RD. LEFT (SW), THEN TAKE TRACK ROAD 0.1 MI. TO PYLON #PM 68 AND STATION TO LEFT. STATION IS STANDARD USC&GS BRASS TABLET STAMPED "PAINTED" 1993". SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE GROUND.

X = 353,044.83 Y = 1,487,310.42 ELEV. = 5316.851 (NGVD 1929)

AS BUILT INFORMATION

	CONTRACTOR
WORK STAKED BY	DATE
WORK ACCEPTANCE BY	DATE
FIELD CLASSIFICATION BY	DATE
DRAWINGS CORRECTED BY	DATE

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO 11674 REGISTERED PROFESSIONAL ENGINEER

10-08-02 Rev 7-21-03 JDH

ENGINEER'S CERTIFICATION PAINTED SKY UNIT 3

I JAMES D. HUGHES, PE #11674, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE UNIT 3 PRIVATE GRADING AND DRAINAGE INCLUDING ALL ASSOCIATED PONDS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS ~~EXCEPT THAT THE NATIVE SEED AND GRAVEL MULCH AND CHAIN LINK FENCES ARE MISSING~~. UNITS 4, 5 AND 6 HAVE ALSO BEEN GRADED ~~BUT ALL WALLS ARE MISSING INCLUDING THE FLOOD WALL ON THE WEST PROPERTY LINE. IN THIS INTERIM CONDITION POND J WILL HANDEL 100 YR UNDEVELOPED FLOW FROM ON-SITE PLUS A PORTION OF THE OFF-SITE DRAINAGE AS ANTICIPATED IN THE PHASED DEVELOPMENT PLAN~~. THIS CERTIFICATION IS BASED ON AS-BUILT ELEVATIONS FOR THE PONDS AND PROPERTY CORNERS PROVIDED BY WALKER SURVEYING ON 11-04-01 AND IS BASED ON AS- BUILT SURVEY OF THE PONDS PROVIDED BY PRECISION SURVEY ON 10-08-02. IT IS ALSO BASED ON FIELD INSPECTION MADE ON 3-7-02 FOR THE WALLS, PADS, AND LOT CORNERS AND INSPECTION ON 9-24-02 FOR THE COMPLETION OF THE POND GRADING AND SPILL WAYS. Per Inspection 7-21-03 all walls fences seeding and mulching is complete per plan. James D Hughes

NOTE:
THIS SHEET IS FOR THE PURPOSE OF GRADING THE PONDS AND EMERGENCY OVERFLOW SPILLWAYS, ONLY.
Asbuilt Elevations are circled.

NO.	DATE	REMARKS	BY
		REVISIONS	

	DATE	BY
DESIGNED BY	6-00	JDH
DRAWN BY	6-03	KJS
CHECKED BY	6-00	DMG

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: **ENGINEER'S CERTIFICATION UNIT 3**
PAINTED SKY SUBDIVISION - UNIT 3
TEMPORARY RETENTION PONDS

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
658883	J-9	2	23

9049PS/UNIT 3 PLANS/9049TG502-A/07-23-01 NHM

PARKLAND ELEMENTARY SCHOOL

ENGINEERS CERTIFICATION - PAINTED SKY UNIT 3

I JAMES D. HUGHES, PE # 11674, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE UNIT-3 PRIVATE GRADING AND DRAINAGE INCLUDING ALL ASSOCIATED PONDS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS ~~EXCEPT THAT THE NATIVE SEED AND GRAVEL MULCH AND CHAIN LINK FENCES ARE MISSING~~. UNITS 4, 5 AND 6 HAVE ALSO BEEN GRADED ~~BUT ALL WALLS ARE MISSING INCLUDING THE~~ FLOOD WALL ON THE WEST PROPERTY LINE. ~~IN THIS INTERIM CONDITION POND J WILL HANDLE 100 YR UNDEVELOPED FLOW FROM ON-SITE PLUS A PORTION OF THE OFF SITE DRAINAGE AS ANTICIPATED IN THE PHASED DEVELOPMENT PLAN~~. THIS CERTIFICATION IS BASED ON AS-BUILT ELEVATIONS FOR THE PONDS AND PROPERTY CORNERS PROVIDED BY WALKER SURVEYING ON 11-04-01 AND IS BASED ON AS-BUILT SURVEY OF THE PONDS PROVIDED BY PRECISION SURVEY ON 10-08-02. IT IS ALSO BASED ON FIELD INSPECTION MADE ON 3-7-02 FOR THE WALLS, PADS AND LOT CORNERS AND INSPECTION ON 9-24-02 FOR THE COMPLETION OF THE POND GRADING AND SPILL WAYS. Per Inspection 7-21-03. All walls, fences, seeding and mulching is complete per plan. James D. Hughes

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
10-8-02
Rev 7-21-03 JDH

POND #F
(3:1 SIDE SLOPES)
100-YR. ELEVATION = 08.7

POND #E
(3:1 SIDE SLOPES)
100 YR. ELEVATION 08.7
100 YR. VOLUME = 0.375 ac. ft.

POND #D
(3:1 SLOPES)
100-YR ELEV=99.4
100-YR VOLUME = 3.832 ac. ft.

EMERGENCY OVERFLOW SPILLWAY
Q = 70.34 cfs
CREST ELEV. = 99.00
WIDTH = 50'
DEPTH = 0.65'
VELOCITY = 2.2 fps

EXISTING POND BOTTOM ELEV. = 86.0±
EXISTING POND TOP ELEV. = 97.3

EXIST. 12' VALLEY GUTTER & ASPHALT RUNDOWN TO BE REMOVED THIS PROJECT.

50' 25' 0 50' 100'
SCALE: 1" = 50'

9049PS/9049TG503/12-07-00 ACH NHM

AS BUILT INFORMATION

CONTRACTOR		
WORK STAKED BY		DATE
ACCEPTANCE BY		DATE
FIELD VERIFICATION BY		DATE
DRAWINGS CORRECTED BY		DATE

MICRO-FILM INFORMATION

RECORDED BY: DATE

NO.

BENCH MARKS

NO.	BY	DATE	
			ACS MONUMENT "REWARD"
			N.M. STATE PLANE COORDINATES
			(CENTRAL ZONE) NAD 27
			X = 1506944.85 Y = 1487301.42
			DELTA ALPHA = -01°11'
			G-G = 0.99967114
			ELEVATION = 5316.951

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	DATE 09.00	DESIGNED BY JDH	
	DATE 09.00	DRAWN BY KJS, ACH	
	DATE 09.00	CHECKED BY DMG	

dmg MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ENGINEER'S CERTIFICATION UNIT 3
PAINTED SKY SUBDIVISION
TEMPORARY RETENTION PONDS

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

CITY PROJECT NO. 6588.83 | ZONE MAP NO. J-9 | SHEET 3 OF 4

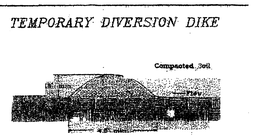
Approved by DRB... ~~For Information~~

PHASING PLAN

THE EARTHWORK WILL BE SPLIT INTO TWO MAJOR PHASES. UNITS 1, 2 AND 3 WILL ALL BE GRADED AT ONCE AS THE FIRST PHASE. THEN UNITS 4, 5 AND 6 WILL ALL BE GRADED AS THE SECOND PHASE. THE ULTIMATE DRAINAGE OUTFALL FOR ALL ON-SITE DRAINAGE WILL BE AMAFCA'S WEST I-40 DIVERSION CHANNEL WHICH MAY BEGIN CONSTRUCTION AS EARLY AS NOVEMBER 2001. PHASE 1 OF PAINTED SKIES IS EXPECTED TO BEGIN A YEAR EARLIER IN NOVEMBER 2000 AND WILL INCLUDE TEMPORARY RETENTION PONDS D, E AND F SIZED FOR THE 100 YR., 10 DAY RUNOFF FROM THE DEVELOPED PORTIONS OF THE SITE, AND POND G WILL BE TEMPORARILY OVERSIZED TO RECEIVE THE 100 YR., 10 DAY RUNOFF (2.6 ACFT) FROM THE UNDEVELOPED LAND WEST OF UNITS 1, 2 AND 3 WHICH WILL BE DIVERTED INTO THE POND BY A TEMPORARY DIVERSION DIKE ALSO TO BE CONSTRUCTED WITH THE FIRST PHASE OF GRADING.

TEMPORARY DIVERSION DIKE (DD)

TEMPORARY DIVERSION DIKE



Construction Specifications

1. Temporary diversion dikes must be installed as a first step in the land-disturbing activity and must be functional prior to upslope land disturbance.
2. The dike should be adequately compacted to prevent failure.
3. Temporary or permanent seeding and mulch shall be applied to the dike immediately following its construction.
4. The dike should be located to minimize damages by construction operations and traffic.

Maintenance

The measure shall be inspected after every storm and repairs made to the dike, flow channel, outlet or sediment trapping facility, as necessary. Once every two weeks, whether a storm event has occurred or not, the measure shall be inspected and repairs made if needed. Damages caused by construction traffic or other activity must be repaired before the end of each working day.

LEGEND

- MOUNTABLE CURB & GUTTER
- STANDARD 8" CURB & GUTTER
- PROPOSED DRAINAGE BASIN
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- EASEMENTS
- W — PROPOSED WATERLINE
- SAS — PROPOSED SANITARY SEWER
- CENTERLINE OF ROAD
- EXISTING CURB AND GUTTER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER VALVE
- 8"W — EXISTING WATERLINE
- EXISTING FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- SAS — EXISTING SANITARY SEWER
- EXISTING EDGE OF PAVEMENT
- 4' DEFERRED SIDEWALK
- (DD) DIVERSION DIKE
- 20 LOT 20

LADERA ROAD
TRACT B
PARKLAND VIEW UNIT 2
EXIST. 7' WIDE PRIVATE DRAINAGE AND COMMON USE EASEMENT (TYP.)
PAINTED SKY ELEMENTARY SCHOOL
PARKWAY UNIT 8
TRACT A
MANDARIN ROAD
TANGERINE ROAD
TRACT C
"PUBLIC" DRAINAGE EASEMENT FOR THE BENEFIT OF THE CITY OF ALBUQUERQUE FOR THE PURPOSE OF TEMPORARY RETENTION POND TO BE MAINTAINED BY WESTLAND.
EMERGENCY OVERFLOW SPILLWAY
Qspill=70.34 cfs
CREST ELEV. = 00.00
WIDTH = 50'
DEPTH = 3.65'
VELOCITY = 2.2 fps
POND AD (3:1 SLOPES) 100 YR ELEV.=99.4 100 YR VOLUME = 3.832 ac. ft.
APPROXIMATE LIMITS OF SPECIAL FLOOD HAZARD AREA ZONE "A" AS SHOWN ON A LETTER OF MAP REVISION, FEMA CASE# 97-06-1026P, EFFECTIVE SEPT. 25, 1997
x' POND BOTTOM ELEVATION = 99.44
30' WIDE L.W. DAM TOP ELEVATION = 99.4 BOTTOM ELEVATION = 89.4
FUTURE INV. CHANNEL = 91.48 INV. PIPE = 94.00
POND AE (3:1 SIDE SLOPES) 100 YR ELEV = 08.7 100 YR VOLUME = 0.375 ac. ft.
15' WIDE MIN. DAM TOP ELEVATION = 13.3
FUTURE INV. CHANNEL = 06.77 INV. PIPE = 09.27
20' x 20' POND BOTTOM ELEVATION = 03.3
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT
POND AF (3:1 SIDE SLOPES) 100 YR ELEV = 08.7
15' WIDE MIN. DAM TOP ELEVATION = 18.5
20' x 30' POND BOTTOM ELEVATION = 08.5
POND AG (3:1 SIDE SLOPES) 100 YR ELEV. = 17.6 100 YR VOLUME = 0.630 ac. ft.
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT
15' WIDE MIN. DAM TOP ELEVATION = 24.0
10' EROSION SETBACK
TENDEE RD.
POND AN (3:1 SIDE SLOPES) 100 YR ELEV. = 23.4 100 YR VOLUME = 2.983 ac. ft.
15' WIDE MIN. DAM TOP ELEVATION = 28.4
LIMITS OF SPECIAL FLOOD HAZARD AREA ZONE "AO" (DEPTH 1') AS SHOWN ON PANEL FLOOD INSURANCE RATE MAP EFFECTIVE SEPT. 20 1996
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT

Per Inspection 7-21-03 all grading and drainage construction complete
James D. Hughes

ENGINEERS CERTIFICATION PAINTED SKY UNIT 3

I JAMES D. HUGHES, PE # 11674, DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE UNIT 3 PRIVATE GRADING AND DRAINAGE INCLUDING ALL ASSOCIATED PONDS HAVE BEEN COMPLETED IN ACCORDANCE WITH THE APPROVED PLANS ~~EXCEPT THAT THE NATIVE SEED AND GRAVEL MULCH AND CHAIN LINK FENCES ARE MISSING. UNITS~~ 4, 5 AND 6 HAVE ALSO BEEN GRADED ~~BUT ALL WALLS ARE MISSING~~ INCLUDING THE FLOOD WALL ON THE WEST PROPERTY LINE. ~~IN THIS INTERIM CONDITION POND J WILL HANDEL 100 YR UNDEVELOPED FLOW FROM ON-SITE PLUS A PORTION OF THE OFF-SITE DRAINAGE AS ANTICIPATED IN THE PHASED DEVELOPMENT PLAN.~~ THIS CERTIFICATION IS BASED ON AS-BUILT ELEVATIONS FOR THE PONDS AND PROPERTY CORNERS PROVIDED BY WALKER SURVEYING ON 11-04-01 AND IS BASED ON AS- BUILT SURVEY OF THE PONDS PROVIDED BY PRECISION SURVEY ON 10-08-02. IT IS ALSO BASED ON FIELD INSPECTION MADE ON 3-7-02 FOR THE WALLS, PADS, AND LOT CORNERS AND INSPECTION ON 9-24-02 FOR THE COMPLETION OF THE POND GRADING AND SPILL WAYS..

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
10-8-02 Rev 7-21-03 JDH

N

100' 50' 0 100' 200'
SCALE: 1" = 100'

99049PS/9049GDALL/09-18-00/ACH

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

BENCH MARKS

AS BUILT INFORMATION

CONTRACTOR
WORK STAKED BY — DATE
INSPECTIONS BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

ENGINEER'S SEAL

JAMES D. HUGHES 11674 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
9-1-00 Rev 11-13-00 Rev 12-7-00 JDH

NO.	DATE	REVISIONS	BY
		DESIGN	
		DATE 09/00	
		DESIGNED BY JDH	
		DATE 09/00	
		DRAWN BY ACH	
		DATE 09/03	
		CHECKED BY DMG	

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

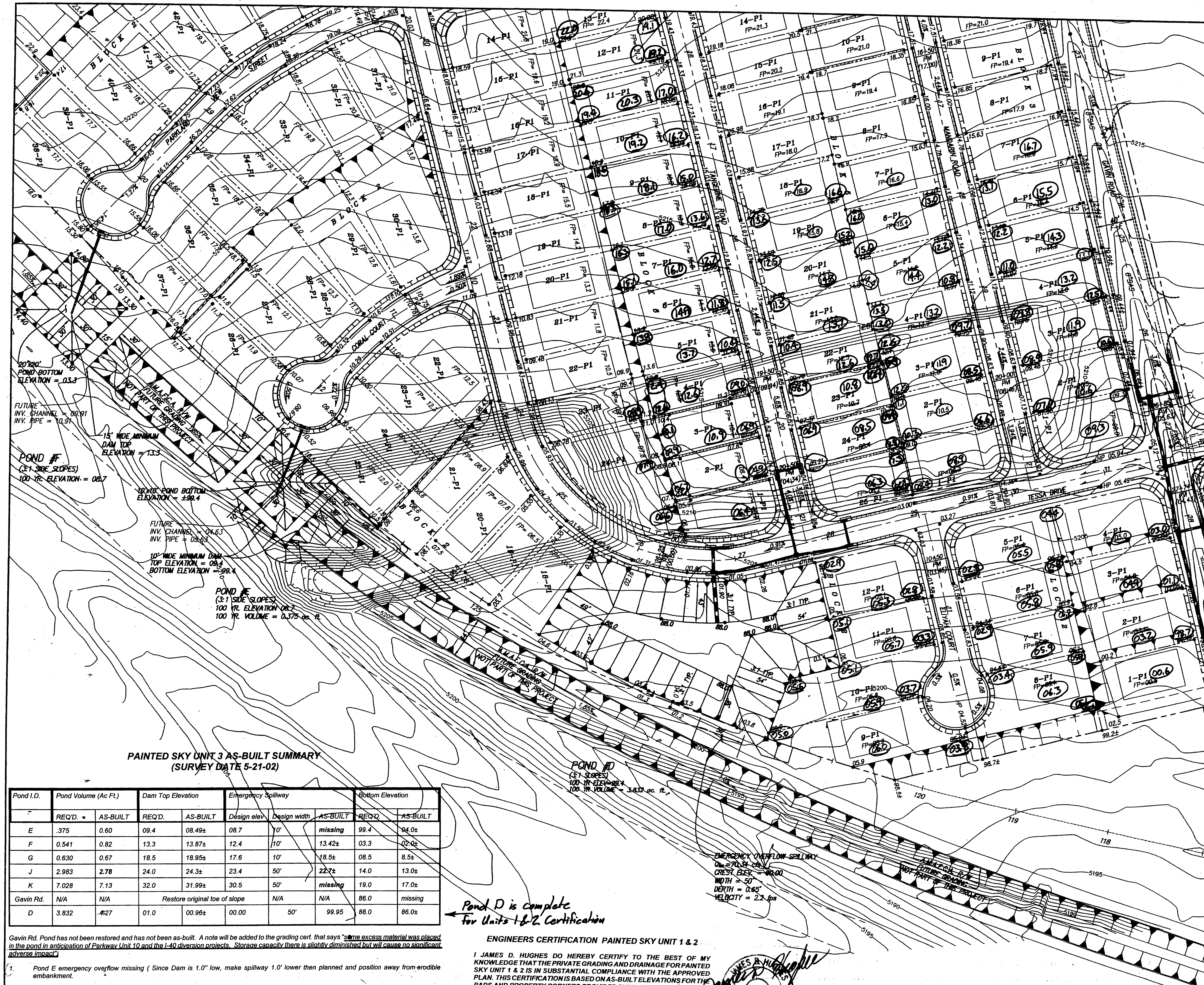
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION UNIT 3
MASTER GRADING & DRAINAGE PLAN
PHASE 1 GRADING Engineer's Certificate

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

CITY PROJECT NO. 6588.83 — ZONE MAP NO. C-20-Z — SHEET NO. 24 OF 24

Approved by D.R.B.... For Information Only



PAINTED SKY UNIT 3 AS-BUILT SUMMARY
(SURVEY DATE 5-21-02)

Pond I.D.	Pond Volume (Ac Ft.)		Dam Top Elevation		Emergency Spillway			Bottom Elevation	
	REQ'D.	AS-BUILT	REQ'D.	AS-BUILT	Design elev	Design width	AS-BUILT	REQ'D.	AS-BUILT
E	.375	0.60	09.4	08.49±	08.7	10'	**missing**	99.4	04.0±
F	0.541	0.82	13.3	13.87±	12.4	10'	13.42±	03.3	02.0±
G	0.630	0.67	18.5	18.95±	17.6	10'	18.5±	08.5	8.5±
J	2.983	**2.78**	24.0	24.3±	23.4	50'	**22.7±**	14.0	13.0±
K	7.028	7.13	32.0	31.99±	30.5	50'	**missing**	19.0	17.0±
Gavin Rd.	N/A	N/A	Restore original toe of slope			N/A	N/A	86.0	missing
D	3.832	4.27	01.0	00.96±	00.00	50'	99.95	88.0	86.0±

← Pond D is complete for Units 1 & 2 Certification

Gavin Rd. Pond has not been restored and has not been as-built. A note will be added to the grading cert. that says "some excess material was placed in the pond in anticipation of Parkway Unit 10 and the I-40 diversion projects. Storage capacity there is slightly diminished but will cause no significant adverse impact".

1. Pond E emergency overflow missing (Since Dam is 1.0" low, make spillway 1.0' lower then planned and position away from erodible embankment.
2. Pond J spillway is too low. When raised to the design elevation the volume deficiency will be resolved (ie. no further excavation needed)
3. Pond K spillway is missing (compaction there is critical) Use dirt from within pond to build up the spillway so as not to diminish pond volume.
4. Pond K rundown in north west corner needs a lot of Dirt Moved. The grade on future lit 110 will be 4' lower than it is now and that needs fixed before the chain link fence is built there.

As-built all these items again, prior to Unit 3 Certification

f:\Painted Sky 3\table for earthwork

ENGINEERS CERTIFICATION PAINTED SKY UNIT 1 & 2

I JAMES D. HUGHES DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE PRIVATE GRADING AND DRAINAGE FOR PAINTED SKY UNIT 1 & 2 IS IN SUBSTANTIAL COMPLIANCE WITH THE APPROVED PLAN. THIS CERTIFICATION IS BASED ON AS-BUILT ELEVATIONS FOR THE PADS AND PROPERTY CORNERS PROVIDED BY WALKER SURVEYING ON 5-29-01 AND IS BASED ON AS-BUILT SURVEY OF POND D PROVIDED BY PRECISION SURVEY ON 5-21-02 AND IS BASED ON RETAINING WALL AS-BUILT ELEVATION PROVIDED BY PRECISION SURVEY ON 10-8-02. IT IS ALSO BASED ON FIELD INSPECTION OF PRIVATE LOTS ON 5-30-01, OF THE RETAINING WALLS ON 3-7-02 AND OF THE POND ON 6-17-02.

JAMES D. HUGHES NEW MEXICO 11874 REGISTERED PROFESSIONAL ENGINEER

10-8-02

9049PS/9049TG503/12-07-00 ACH NHM

AS BUILT INFORMATION: CONTRACTOR / 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: ACS MONUMENT "REWARD" N.M. STATE PLANE COORDINATES (CENTRAL ZONE) NAD 27 X = 350944.85 Y = 1487301.42 DELTA ALPHA = -0°17'11" G-G = 0.99967114 ELEVATION = 5316.951

SURVEY INFORMATION: FIELD NOTES — NO. / BY / DATE

ENGINEER'S SEAL: JAMES D. HUGHES NEW MEXICO 11874 REGISTERED PROFESSIONAL ENGINEER 12-7-00

REMARKS / REVISIONS / DESIGN — DATE 09/00 / DESIGNED BY JDH; DRAWN BY KJS, ACH — DATE 09/00; CHECKED BY DMG — DATE 09/00

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ENGINEERS CERTIFICATION UNITS 1 & 2
PAINTED SKY SUBDIVISION
TEMPORARY RETENTION PONDS

NOV 07 2002 HYDROLOGY SECTION

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

CITY PROJECT NO. [illegible] | ZONE MAP NO. J-9 | SHEET 2 OF 2

Approved by DRB... ~~For Information~~

EROSION CONTROL NOTES

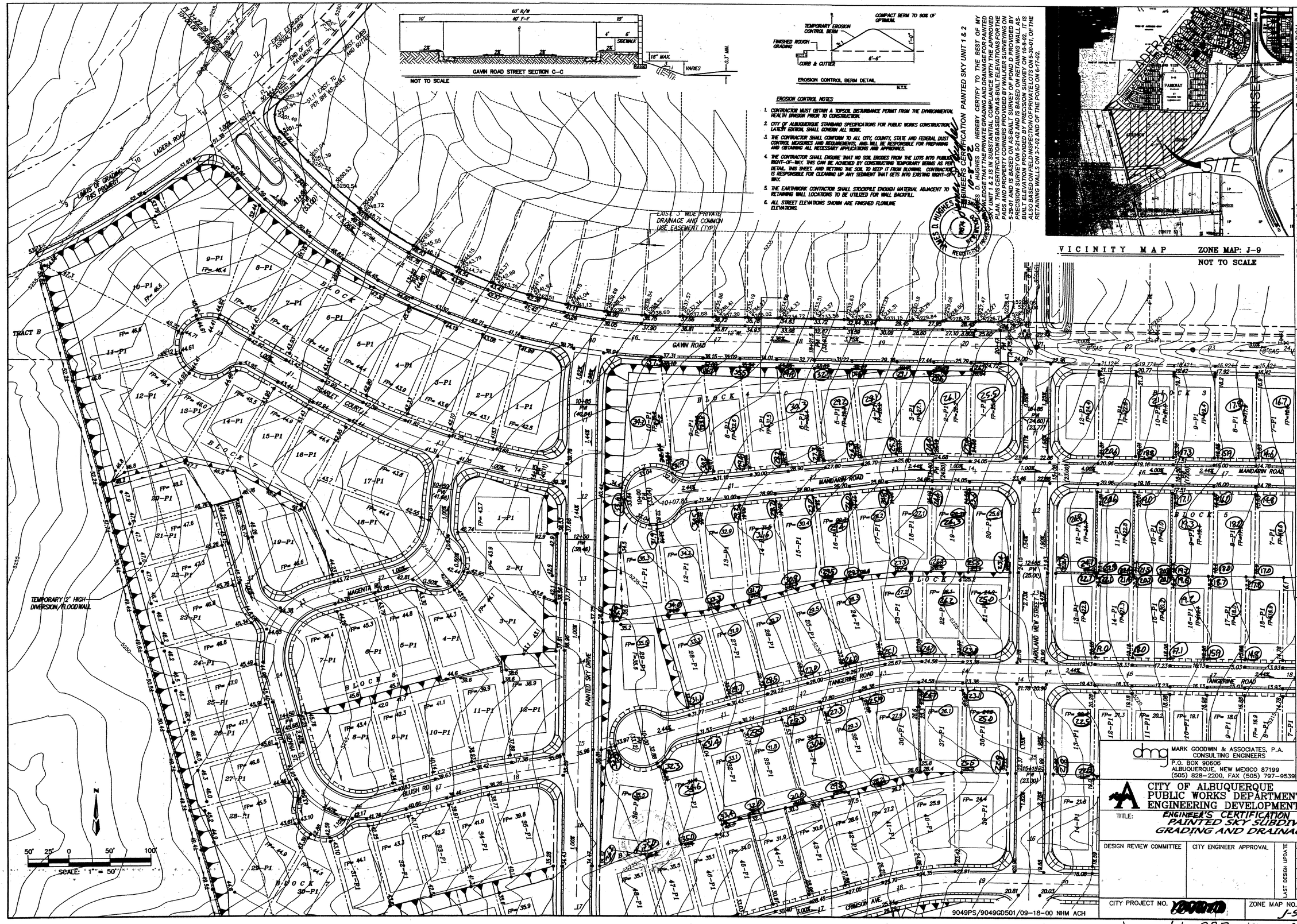
1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS, AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET, AND WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
5. THE EARTHWORK CONTRACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOWLINE ELEVATIONS.

ENGINEER'S CERTIFICATION PAINTED SKY UNIT 1 & 2

I, JAMES D. HUGHES DO HEREBY CERTIFY TO THE BEST OF MY KNOWLEDGE THIS IS THE GRADING AND DRAINAGE PLAN FOR PAINTED SKY UNIT 1 & 2 AND THAT I HAVE PERSONALLY PREPARED THIS PLAN. THIS CERTIFICATION IS BASED ON AS-BUILT ELEVATIONS FOR THE PADS AND PROPERTY CORNERS PROVIDED BY WALKER SURVEYING ON 5-29-01 AND IS BASED ON AS-BUILT SURVEY OF POND D PROVIDED BY PRECISION SURVEY ON 5-21-02 AND IS BASED ON RETAINING WALL AS-BUILT BASED ON FIELD INSPECTION PERFORMED BY DMG ON 10-8-02. IT IS NOT BASED ON FIELD INSPECTION PERFORMED ON 10-9-01, OF THE RETAINING WALLS ON 3-7-02 AND OF THE POND ON 6-17-02.

JAMES D. HUGHES 10-8-02
NEW MEXICO 14729
REGISTERED PROFESSIONAL ENGINEER

VICINITY MAP ZONE MAP: J-9
NOT TO SCALE



AS BUILT INFORMATION

CONTRACTOR
WORK INSPECTOR'S
ACCEPTANCE BY
CERTIFICATION BY
DRAWINGS CORRECTED BY
DATE

MICRO-FILM INFORMATION

RECORDED BY
DATE
NO.

BENCH MARKS

ACS MONUMENT "RCWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.685 Y = 1487301.42
DELTA ALPHA = -0°17'11"
G-G = 0.99967714
ELEVATION = 5316.881

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES
NEW MEXICO 14729
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	RATE
		DESIGNED BY	DATE
		DRAWN BY	DATE
		CHECKED BY	DATE

dmg
MARK GOODWIN & ASSOCIATES, P.A.
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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: ENGINEER'S CERTIFICATION UNITS 1&2
PAINTED SKY SUBDIVISION
GRADING AND DRAINAGE PLAN

APPROVED
SEP 17 2002
DRB CHAIRPERSON, PLANNING SECTION

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

CITY PROJECT NO. 6000160 | ZONE MAP NO. J-9 | SHEET 1 OF 2

9049PS/9049GD501/09-18-00 NHM ACH

Approved by DRB... ~~For Information Only~~

PRELIMINARY PLAT FOR
PAINTED SKY SUBDIVISION

BEING A PORTION OF
THE UNPLATTED LANDS OF WESTLAND,
PORTIONS OF GAVIN RD,
ENDEE RD, & 90TH ST.,
TRACT A OF PARKLAND VIEW SUBDIVISION,
AND PARCEL B PARKWAY UNIT 8,
SECTION 16, TOWNSHIP 10 NORTH,
RANGE 2 EAST, NMPM
CITY OF ALBUQUERQUE,
BERNALILLO COUNTY,
NEW MEXICO
SEPTEMBER, 2000

ACS MONUMENT "ANDY" N.M.
STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X=347212.94 Y=1493629.17
DELTA ALPHA = -017'38"
G-G = 0.99966057
ELEVATION = 5564.45

ACS MONUMENT "1-40-20A"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X=356926.16 Y=1490199.97
DELTA ALPHA = -016'30"
G-G = 0.9996763
ELEVATION = 5165.89

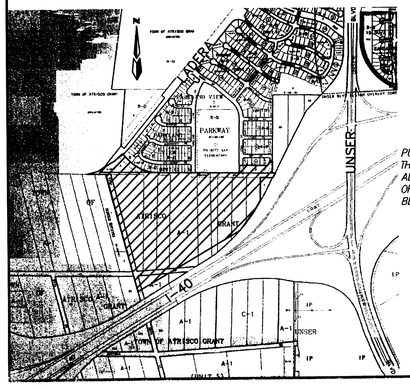
CURVE TABLE

NUMBER	R =	L = '	D =	T = '	CH BEARIN=	CHORD LE=
C1	20.00	31.50	90°14'27"	20.08	N 45°31'40" E	28.34
C2	1153.00	353.85'	17°35'02"	178.33'	N 56°13'40" E	352.46'
C3	2291.84	503.88	12°35'49"	252.96	N 36°07'39" E	502.87
C4	620.00	536.99	49°37'28"	286.64	S 64°32'21" E	520.36
C5	30.00	45.63	87°09'17"	28.55	S 03°51'17" W	41.36

LINE TABLE

NUMBER	DISTANCE	DIRECTION
L1	8.05'	N 00°43'54" E
L2	19.71'	N 85°50'29" E
L3	10.65'	S 00°23'41" W
L4	33.89'	S 63°05'17" E
L5	47.17'	S 89°21'06" E
L6	6.97'	S 00°38'54" W

ZONE ATLAS MAP # J-9
SCALE: NONE



LEGEND

- 1-P1 — LOT NUMBER
- BLOCK 2 — BLOCK NUMBER
- ▲ — CENTER LINE MONUMENT
- R/W — RIGHT-OF-WAY
- 5 — UNIT NUMBER
- VACATION
- — · — · — FLOOD PLAIN LIMITS

SUBDIVISION DATA

GROSS ACREAGE	53.6160 AC
ZONE ATLAS NO.	J-9-Z
NO. OF LOTS CREATED	280 LOTS
NO. OF TRACTS CREATED	4 TRACT
AREA DEDICATED TO CITY	13.9341 AC
ZONING	RLT
DATE OF SURVEY	DECEMBER 1999

NOTES

1. UNLESS OTHERWISE NOTED, ALL BOUNDARY CORNERS SHOWN THUS ○ SHALL BE MARKED BY A #5 REBAR W/CAP STAMPED PS#11993
2. ALL STREET CENTERLINE MONUMENTATION SHALL BE INSTALLED AT ALL CENTERLINE PC'S, PT'S, ANGLE POINTS, AND STREET INTERSECTIONS AND SHOWN THUS ▲, WILL BE MARKED BY A FOUR INCH (4") ALUMINUM CAP STAMPED:
   "CITY OF ALBUQUERQUE CENTERLINE MONUMENTATION"
   "DO NOT DISTURB"
   PS#11993"
3. BOUNDARY SHALL BE TIED TO THE NEW MEXICO STATE PLANE COORDINATE SYSTEM AS SHOWN.
4. BASIS OF BEARING SHALL BE NEW MEXICO STATE PLANE GRID BEARINGS.
5. ALL DISTANCES SHALL BE GROUND DISTANCES.
6. MANHOLES WILL BE OFFSET AT ALL POINTS OF CURVATURE, POINTS OF TANGENCY, STREET INTERSECTIONS, AND ALL OTHER ANGLE POINTS TO ALLOW USE OF CENTERLINE MONUMENTATION.
7. A 10' PRIVATE DRAINAGE EASEMENT IS CENTERED ON ALL COMMON SIDE LOT LINES AND ON REAR LOT LINES WHERE THEY ABUT THE SIDE YARD OF THE ADJACENT LOT.

APPROVED FOR MONUMENTATION AND STREET NAMES

Owner: Westland Development

Barbara Page
President & C.E.O., Westland Development Co., Inc.
9-15-00 DATE

City Surveyor, City of Albuquerque, N.M. 9/20/00 Date

RECEIVED
DEC 11 2000
HYDROLOGY SECTION

OWNERS

WESTLAND DEVELOPMENT
401 COORS NW
ALBUQUERQUE, N.M. 87121
(505) 831-9600

ENGINEERS

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P.O. BOX 90606
ALBUQUERQUE, NEW MEXICO 87199
(505) 828-2200

SURVEYOR

PRECISION SURVEY
8414-D JEFFERSON ST. NE
ALBUQUERQUE, N.M. 87113
(505) 856-5700

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

Designed: JDH	Drawn: SPS	Checked: DMG	Sheet 1 of 1
Scale: 1" = 100'	Date: 9-13-00	Job: 99049	

N:\TA\DWGS\99\099\99049PS\PRELIMINARY PLAT.dwg Fri Sep 15 13:02:25 2000 by sps

GAVIN ROAD STREET SECTION C-C

NOT TO SCALE

EROSION CONTROL BERM DETAIL

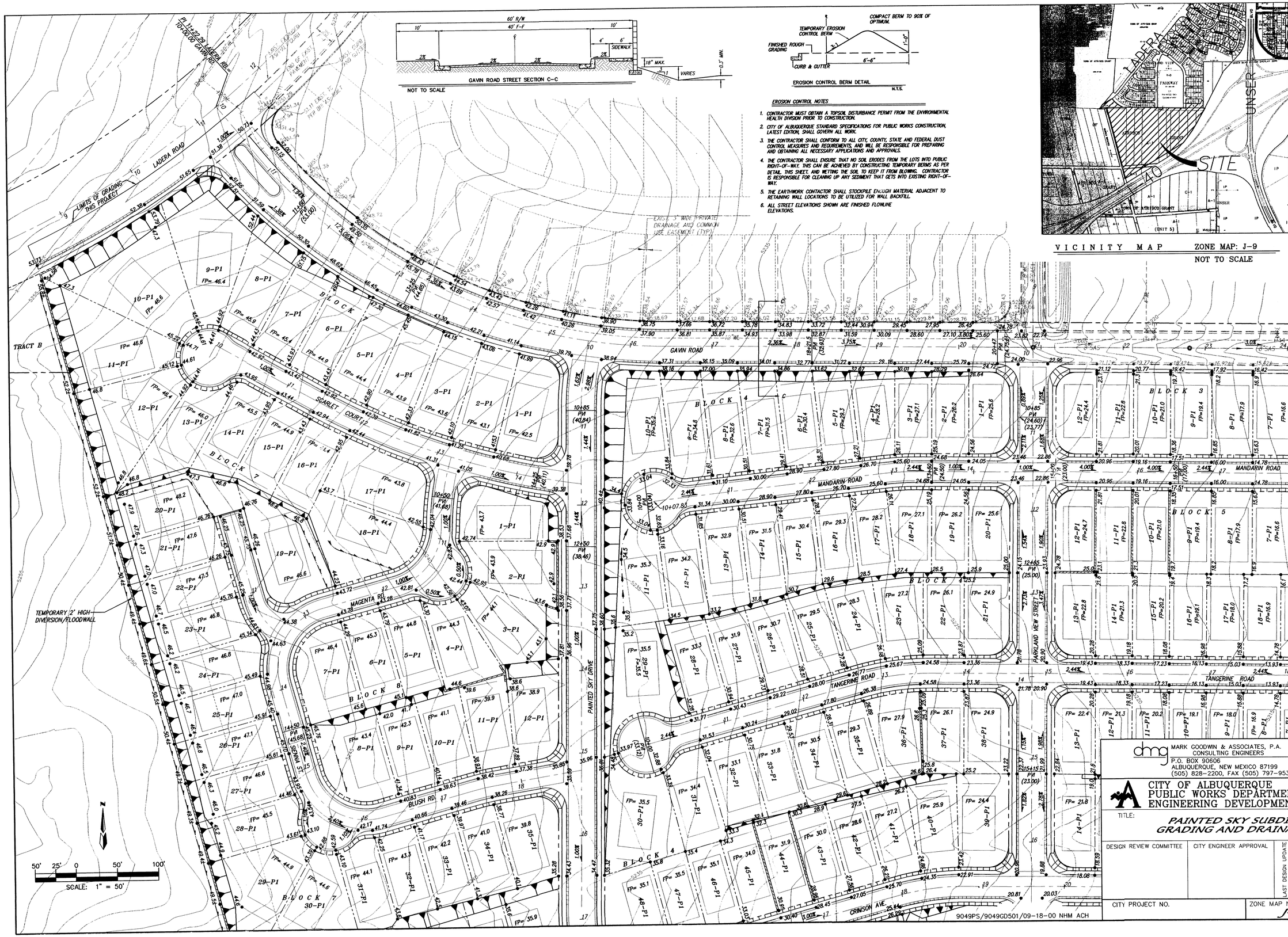
N.T.S.

EROSION CONTROL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.
2. CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, LATEST EDITION, SHALL GOVERN ALL WORK.
3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE AND FEDERAL DUST CONTROL MEASURES AND REQUIREMENTS, AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.
4. THE CONTRACTOR SHALL ENSURE THAT NO SOIL ERODES FROM THE LOTS INTO PUBLIC RIGHT-OF-WAY. THIS CAN BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS AS PER DETAIL THIS SHEET, AND WETTING THE SOIL TO KEEP IT FROM BLOWING. CONTRACTOR IS RESPONSIBLE FOR CLEANING UP ANY SEDIMENT THAT GETS INTO EXISTING RIGHT-OF-WAY.
5. THE EARTHWORK CONTACTOR SHALL STOCKPILE ENOUGH MATERIAL ADJACENT TO RETAINING WALL LOCATIONS TO BE UTILIZED FOR WALL BACKFILL.
6. ALL STREET ELEVATIONS SHOWN ARE FINISHED FLOWLINE ELEVATIONS.

VICINITY MAP ZONE MAP: J-9

NOT TO SCALE



AS BUILT INFORMATION

CONTRACTOR — DATE

WORK STAKED BY — DATE

ACCEPTANCE BY — DATE

FIELD CALCULATION BY — DATE

DRAWINGS BY — DATE

CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE

NO.

BENCH MARKS

ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99987114
ELEVATION = 5316.951

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGHES
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER
12,797

Re: 11-27-00
Re: 11-30-00 ADM

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY	JDH
		DRAWN BY	KJS, ACH
		CHECKED BY	DMG

DESIGNED DATE 09/00
DRAWN DATE 09/00
CHECKED DATE 09/00

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
ENGINEERING DEVELOPMENT GROUP

TITLE:

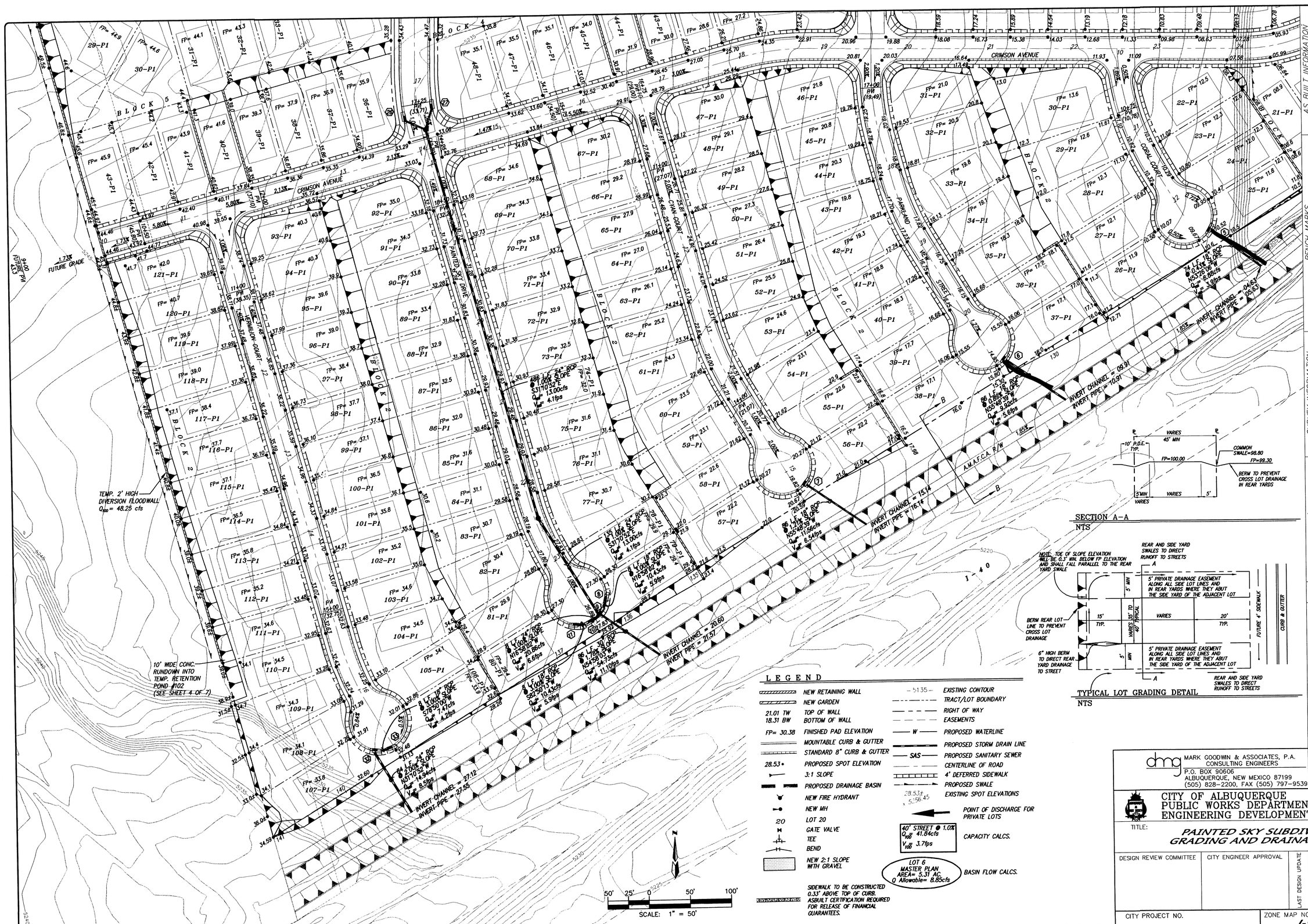
PAINTED SKY SUBDIVISION GRADING AND DRAINAGE PLAN

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	J-9	1	17

9049PS/9049GD501/09-18-00 NHM ACH

\\DATA\DWGS\9049PS\9049GD501.dwg Mon Nov 27 11:56:05 2000 PLOTTED BY NHM



SECTION A-A
NTS

TYPICAL LOT GRADING DETAIL
NTS

LEGEND

- NEW RETAINING WALL
- NEW GARDEN
- 21.01 TW / 18.31 BW — TOP OF WALL / BOTTOM OF WALL
- FP= 30.38 — FINISHED PAD ELEVATION
- MOUNTABLE CURB & GUTTER
- STANDARD 8" CURB & GUTTER
- 28.53• — PROPOSED SPOT ELEVATION
- 3:1 SLOPE
- PROPOSED DRAINAGE BASIN
- NEW FIRE HYDRANT
- NEW MH
- 20 — LOT 20
- GATE VALVE
- TEE
- BEND
- NEW 2:1 SLOPE WITH GRAVEL
- SIDEWALK TO BE CONSTRUCTED 0.33' ABOVE TOP OF CURB. ASBUILT CERTIFICATION REQUIRED FOR RELEASE OF FINANCIAL GUARANTEES.
- 5135 — EXISTING CONTOUR
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- EASEMENTS
- W — PROPOSED WATERLINE
- PROPOSED STORM DRAIN LINE
- SAS — PROPOSED SANITARY SEWER
- CENTERLINE OF ROAD
- 4' DEFERRED SIDEWALK
- PROPOSED SWALE
- 28.53+ / 6.56.45 — EXISTING SPOT ELEVATIONS
- POINT OF DISCHARGE FOR PRIVATE LOTS
- 40' STREET @ 1.0% Q_{100}= 41.84cfs V_{100}= 3.7fps — CAPACITY CALCS.
- LOT 6 MASTER PLAN AREA= 5.31 AC. Q Allowable= 8.85cfs — BASIN FLOW CALCS.

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

STATION "REWARD" IS LOCATED ABOUT 5 MILES WEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM INTERSECTION OF CENTRAL AVE. AND STATE RD. 448 GO WEST ON CENTRAL 1.8 MI. TO NOLASCO RD. ON RT. (98TH ST. ON LT.), THEN NORTH ALONG NOLASCO RD. CROSSING OVER I-40, 1.0 MI. TO TRACK RD. LEFT (SW), THEN TAKE TRACK ROAD 0.1 MI. TO PYLON #PW 68 AND STATION TO LEFT. STATION IS STANDARD USC&GS BRASS TABLET STAMPED "REWARD 1969", SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE GROUND.
X = 350,944.85 Y = 1,487,301.42 ELEV. = 5316.951

AS BUILT INFORMATION

	DATE
CONTRACTOR	
STAKED BY	
INSPECTOR'S INITIALS	DATE
FIELD VERIFICATION BY	DATE
DRAWING CORRECTED BY	DATE

MICRO-FILM INFORMATION

	DATE
RECORDED BY	
NO.	

ENGINEER'S SEAL

JAMES D. HUGHES — NEW MEXICO — 10674 — REGISTERED PROFESSIONAL ENGINEER — SURVEYED
12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
	09/00	DESIGNED BY JDH	
	09/00	DRAWN BY KJS, ACH	
	09/00	CHECKED BY DMG	

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
ENGINEERING DEVELOPMENT GROUP

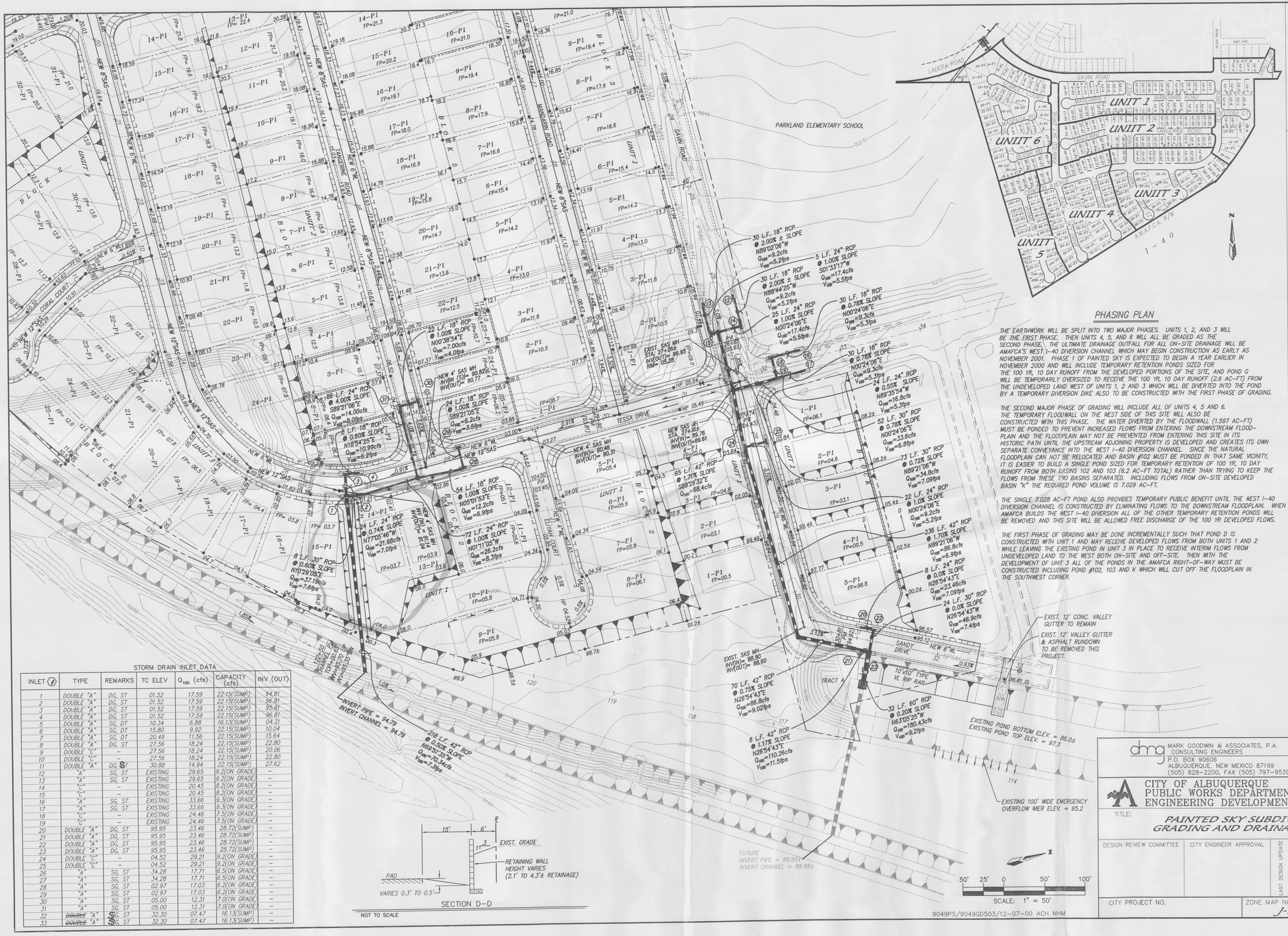
TITLE: *PAINTED SKY SUBDIVISION GRADING AND DRAINAGE PLAN*

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	J-9	2	7

9049PS/9049GD502/12-07-00 ACH NHM

A:\DWGS\9SJOBS\9049PS\9049GD502.dwg Thu Dec 07 12:56:33 2000 PLOTTED BY NHM



PHASING PLAN

THE EARTHWORK WILL BE SPLIT INTO TWO MAJOR PHASES. UNITS 1, 2, AND 3 WILL BE THE FIRST PHASE. THEN UNITS 4, 5, AND 6 WILL ALL BE GRADED AS THE SECOND PHASE. THE ULTIMATE DRAINAGE OUTFALL FOR ALL ON-SITE DRAINAGE WILL BE AMAFCA'S WEST I-40 DIVERSION CHANNEL WHICH MAY BEGIN CONSTRUCTION AS EARLY AS NOVEMBER 2001. PHASE 1 OF PAINTED SKY IS EXPECTED TO BEGIN A YEAR EARLIER IN NOVEMBER 2000 AND WILL INCLUDE TEMPORARY RETENTION PONDS SIZED FOR THE 100 YR, 10 DAY RUNOFF FROM THE DEVELOPED PORTIONS OF THE SITE, AND POND G WILL BE TEMPORARILY OVERSIZED TO RECEIVE THE 100 YR, 10 DAY RUNOFF (2.6 AC-FT) FROM THE UNDEVELOPED LAND WEST OF UNITS 1, 2 AND 3 WHICH WILL BE DIVERTED INTO THE POND BY A TEMPORARY DIVERSION DIKE ALSO TO BE CONSTRUCTED WITH THE FIRST PHASE OF GRADING.

THE SECOND MAJOR PHASE OF GRADING WILL INCLUDE ALL OF UNITS 4, 5 AND 6. THE TEMPORARY FLOODWALL ON THE WEST SIDE OF THIS SITE WILL ALSO BE CONSTRUCTED WITH THIS PHASE. THE WATER DIVERTED BY THE FLOODWALL (1.597 AC-FT) MUST BE PONDED TO PREVENT INCREASED FLOWS FROM ENTERING THE DOWNSTREAM FLOOD-PLAIN AND THE FLOODPLAIN MAY NOT BE PREVENTED FROM ENTERING THIS SITE IN ITS HISTORIC PATH UNTIL THE UPSTREAM ADJOINING PROPERTY IS DEVELOPED AND CREATES ITS OWN SEPARATE CONVEYANCE INTO THE WEST I-40 DIVERSION CHANNEL. SINCE THE NATURAL FLOODPLAIN CAN NOT BE RELOCATED AND BASIN #102 MUST BE PONDED IN THAT SAME VICINITY, IT IS EASIER TO BUILD A SINGLE POND SIZED FOR TEMPORARY RETENTION OF 100 YR, 10 DAY RUNOFF FROM BOTH BASINS 102 AND 103 (6.2 AC-FT TOTAL) RATHER THAN TRYING TO KEEP THE FLOWS FROM THESE TWO BASINS SEPARATED. INCLUDING FLOWS FROM ON-SITE DEVELOPED BASIN "K" THE REQUIRED POND VOLUME IS 7.029 AC-FT.

THE SINGLE 7.028 AC-FT POND ALSO PROVIDES TEMPORARY PUBLIC BENEFIT UNTIL THE WEST I-40 DIVERSION CHANNEL IS CONSTRUCTED BY ELIMINATING FLOWS TO THE DOWNSTREAM FLOODPLAIN. WHEN AMAFCA BUILDS THE WEST I-40 DIVERSION ALL OF THE OTHER TEMPORARY RETENTION PONDS WILL BE REMOVED AND THIS SITE WILL BE ALLOWED FREE DISCHARGE OF THE 100 YR DEVELOPED FLOWS.

THE FIRST PHASE OF GRADING MAY BE DONE INCREMENTALLY SUCH THAT POND D IS CONSTRUCTED WITH UNIT 1 AND MAY RECEIVE DEVELOPED FLOWS FROM BOTH UNITS 1 AND 2 WHILE LEAVING THE EXISTING POND IN UNIT 3 IN PLACE TO RECEIVE INTERIM FLOWS FROM UNDEVELOPED LAND TO THE WEST BOTH ON-SITE AND OFF-SITE. THEN WITH THE DEVELOPMENT OF UNIT 3 ALL OF THE PONDS IN THE AMAFCA RIGHT-OF-WAY MUST BE CONSTRUCTED INCLUDING POND #102, 103 AND K WHICH WILL CUT OFF THE FLOODPLAIN IN THE SOUTHWEST CORNER.

STORM DRAIN INLET DATA

INLET (#)	TYPE	REMARKS	TC ELEV	Q_{100} (cfs)	CAPACITY (cfs)	INV. (OUT)
1	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	94.81
2	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	96.81
3	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	95.81
4	DOUBLE "A"	DG, ST	01.52	17.59	22.15(SUMP)	96.81
5	DOUBLE "A"	SG, DT	10.34	6.88	16.13(SUMP)	04.31
6	DOUBLE "A"	SG, DT	15.80	9.92	22.15(SUMP)	10.04
7	DOUBLE "A"	SG, DT	20.49	11.56	22.15(SUMP)	15.64
8	DOUBLE "A"	DG, ST	27.56	18.24	22.15(SUMP)	22.80
9	DOUBLE "C"	–	27.56	18.24	22.15(SUMP)	20.06
10	DOUBLE "C"	–	27.56	18.24	22.15(SUMP)	22.80
11	DOUBLE "A"	DG, ST	30.88	14.94	22.15(SUMP)	27.62
12	"A"	SG, ST	EXISTING	29.65	9.2(ON GRADE)	–
13	"A"	SG, ST	EXISTING	29.65	9.2(ON GRADE)	–
14	"C"	–	EXISTING	20.45	8.2(ON GRADE)	–
15	"C"	–	EXISTING	20.45	8.2(ON GRADE)	–
16	"A"	SG, ST	EXISTING	33.66	9.3(ON GRADE)	–
17	"A"	SG, ST	EXISTING	33.66	9.3(ON GRADE)	–
18	"C"	–	EXISTING	24.46	7.5(ON GRADE)	–
19	"C"	–	EXISTING	24.46	7.5(ON GRADE)	–
20	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
21	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
22	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
23	DOUBLE "A"	DG, ST	95.95	23.46	28.72(SUMP)	–
24	DOUBLE "C"	–	04.52	29.21	9.2(ON GRADE)	–
25	DOUBLE "C"	–	04.52	29.21	9.2(ON GRADE)	–
26	"A"	SG, ST	34.28	17.71	6.5(ON GRADE)	–
27	"A"	SG, ST	34.28	17.71	6.5(ON GRADE)	–
28	"A"	SG, ST	02.97	17.03	6.2(ON GRADE)	–
29	"A"	SG, ST	02.97	17.03	6.2(ON GRADE)	–
30	"A"	SG, ST	05.00	12.31	7.0(ON GRADE)	–
31	"A"	SG, ST	05.00	12.31	7.0(ON GRADE)	–
32	~~DOUBLE~~ "A"	SG, ST	32.30	07.47	16.13(SUMP)	–
33	~~DOUBLE~~ "A"	SG, ST	32.30	07.47	16.13(SUMP)	–

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

BENCH MARKS
"AGS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99967114
ELEVATION = 5316.851

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY | DATE
ACCEPTANCE BY | DATE
FIELD VERIFICATION BY | DATE
DRAWINGS CORRECTED BY | DATE
MICRO-FILM INFORMATION
RECORDED BY | DATE
NO.

ENGINEER'S SEAL
JAMES D. HUGHES
NEW MEXICO
14831
REGISTERED PROFESSIONAL ENGINEER
12-7-00

NO.	DATE	REMARKS	BY
		DESIGN	
DESIGNED BY	JDH	DATE	09/00
DRAWN BY	KJS, ACH	DATE	09/00
CHECKED BY	DWG	DATE	09/00

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
ENGINEERING DEVELOPMENT GROUP

TITLE:
PAINTED SKY SUBDIVISION 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
	J-9	3	7

9049PS/9049GD503/12-07-00 ACH NHM

CRIMSON AVENUE

PAINTED SKY DRIVE

CYAN COURT

CORAL COURT

PARKLAND VIEW STREET

BLOCK 1

BLOCK 2

BLOCK 5

TEMPORARY 2' HIGH DIVERSION/FLOODWALL

10' EROSION SETBACK

149.6 cfs

48.25 cfs

POND BOTTOM ELEV. = 19.0

POND BOTTOM ELEV = 14.0

FUTURE GRADE

A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT

POND #K AND #102 AND #103
(2:1 SIDE SLOPE)
100 YR VOLUME = 7.028 ac. ft.
100 YR ELEV. = 30.5

15' WIDE MINIMUM DAM TO ELEV. = 32.0

FUTURE INV. CHANNEL = 27.12
INV. PIPE = 27.55

50' WIDE EMERGENCY OVERFLOW SPILLWAY
CREST ELEV. = 30.5
DEPTH = 1.35'
Q_{100} = 212.89± cfs

LIMITS OF SPECIAL FLOOD HAZARD AREA ZONE "AO" (DEPTH 1') AS SHOWN ON PANEL FLOOD INSURANCE RATE MAP EFFECTIVE SEPT. 20 1996

POND #J
(2:1 SIDE SLOPES)
100 YR. VOLUME = 2.983 ac. ft.
100 YR. ELEV. = 23.4

FUTURE INV. CHANNEL = 20.66
INV. PIPE = 21.57

15' WIDE MIN. DAM TOP ELEV. = 24.0

POND #G
(3:1 SIDE SLOPE)
100 YR VOLUME = 0.630 ac. ft.
100 YR ELEV. = 17.6

20'x30' BOTTOM ELEV. = 08.5

FUTURE INV. CHANNEL = 15.14
INV. PIPE = 16.14

POND #F
(3:1 SIDE SLOPES)
100 YR. VOLUME = 0.541 ac. ft.
100 YR. ELEVATION = 12.4

20'x20' POND BOTTOM ELEVATION = 03.3

15' WIDE MINIMUM DAM TOP ELEVATION = 18.5

A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT

FUTURE INV. CHANNEL = 09.91
INV. PIPE = 10.91

POND #E
(3:1 SIDE SLOPES)
100 YR. ELEVATION = 08.7

15' WIDE MINIMUM DAM TOP ELEVATION = 13.3

10'x10' POND BOTTOM ELEVATION = ±99.4

10' WIDE MINIMUM DAM TOP ELEVATION = 09.4
BOTTOM ELEVATION = ±99.4

A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT

FUTURE INV. CHANNEL = 05.63
INV. PIPE = 05.63

50' 25' 0 50' 100'
SCALE: 1" = 50'

9049PS/9049TG502-A/12-07-00 NHM

AS BUILT INFORMATION

CONTRACTOR
WORK STARTED BY — DATE
INSPECTORS
ACCEPTANCE BY — DATE
VERIFICATION BY
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

STATION "REWARD" IS LOCATED ABOUT 5 MILES WEST OF DOWNTOWN ALBUQUERQUE. TO REACH THE STATION FROM INTERSECTION OF CENTRAL AVE. AND STATE RD. 448 GO WEST ON CENTRAL 1.8 MI. TO NOLASCO RD. ON R.T. (30TH ST. ON L.T.), THEN NORTH ALONG NOLASCO RD. CROSSING OVER US 1-40, 1.0 MI. TO TRACK RD. LEFT (SW), THEN TAKE TRACK ROAD 0.1 MI. TO P.I. ON NEW 68 AND STATION TO LEFT. STATION IS STANDARD USC&GS BRASS TABLET STAMPED "REWARD 1969", SET IN TOP OF A CONCRETE POST PROJECTING 0.3 FT. ABOVE GROUND.
X = 350,944.85 Y = 1,497,301.42 ELEV. = 5316.051

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
JAMES D. HUGGINS
NEW MEXICO
14278
REGISTERED PROFESSIONAL ENGINEER
12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
		DESIGNED BY JDH	DATE 6/00
		DRAWN BY KJS	DATE 6/00
		CHECKED BY DMG	DATE 6/00

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
ENGINEERING DEVELOPMENT GROUP

TITLE:
PAINTED SKY SUBDIVISION TEMPORARY RETENTION PONDS

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

CITY PROJECT NO.	ZONE MAP NO.	SHEET	OF
	J-9	4	7

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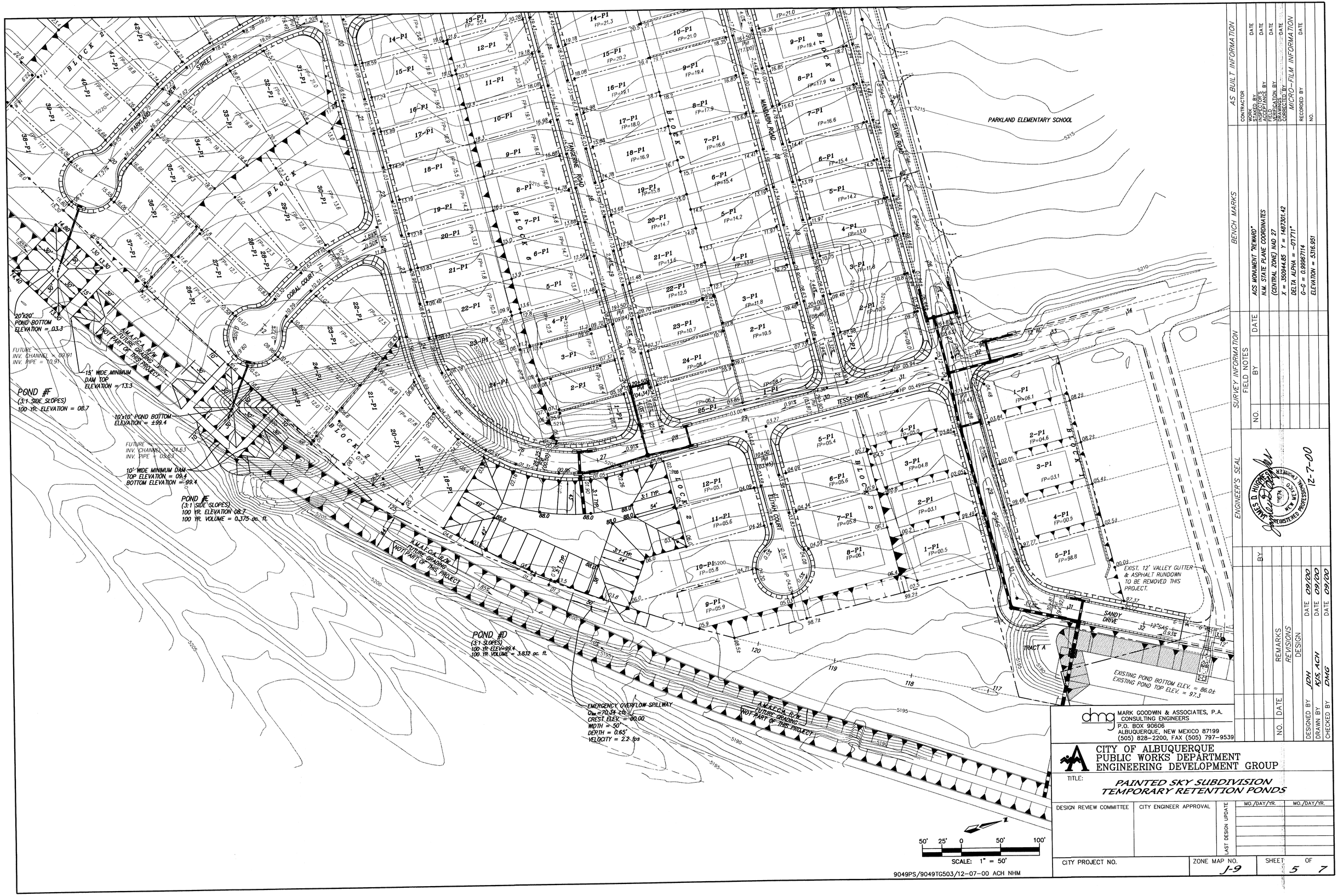

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

BENCH MARKS

ACS MONUMENT "PEWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99967114
ELEVATION = 5316.951

AS BUILT INFORMATION

	DATE
CONTRACTOR	
WORK STAKED BY:	
ACCEPTANCE BY:	
FIELD VERIFICATION BY:	
DRAWINGS CORRECTED BY:	

MICRO-FILM INFORMATION

	DATE
RECORDED BY	
NO.	

ENGINEER'S SEAL

JAMES D. HUGHES
NEW MEXICO
14674
REGISTERED PROFESSIONAL ENGINEER
12-7-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	DATE 09.00
		DESIGNED BY JDH	DATE 09.00
		DRAWN BY KS, ACH	DATE 09.00
		CHECKED BY DMG	

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

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
PAINTED SKY SUBDIVISION TEMPORARY RETENTION PONDS

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

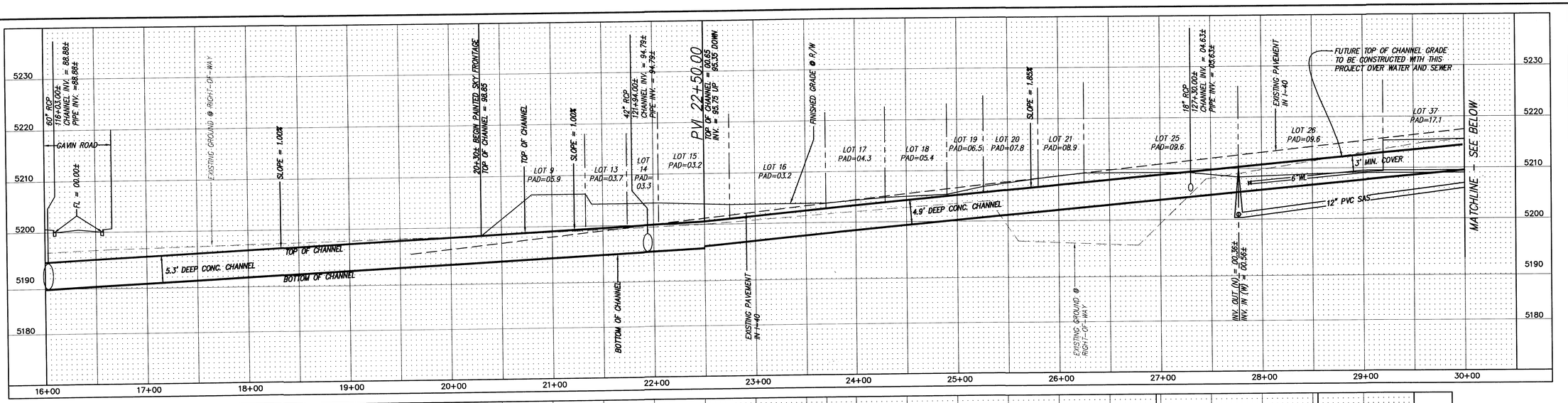
CITY PROJECT NO.

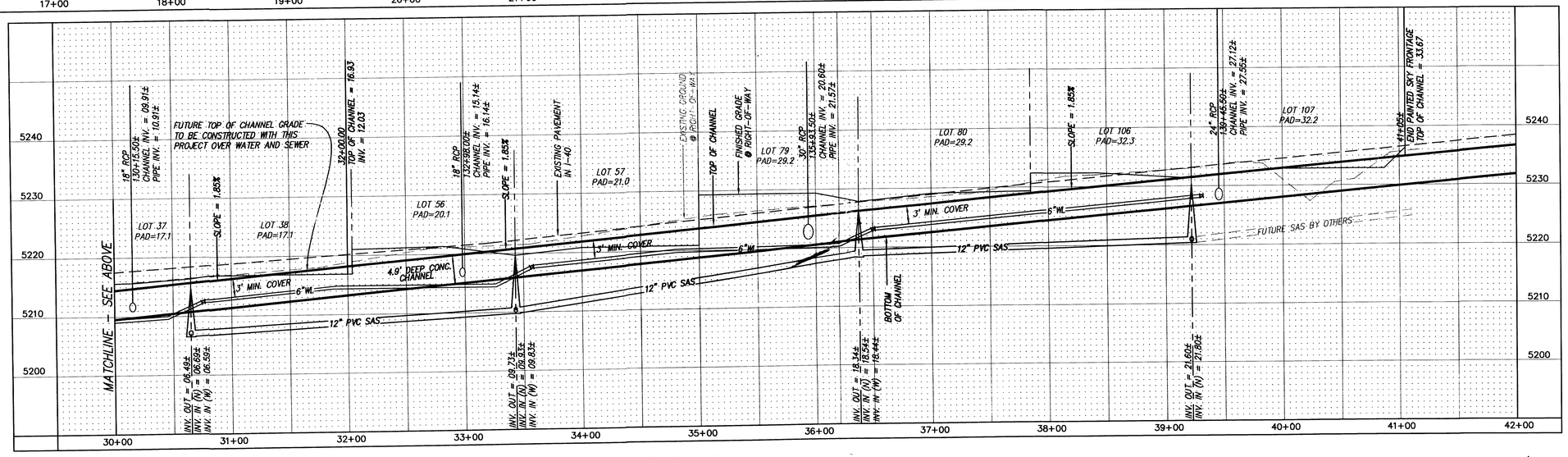
ZONE MAP NO. J-9

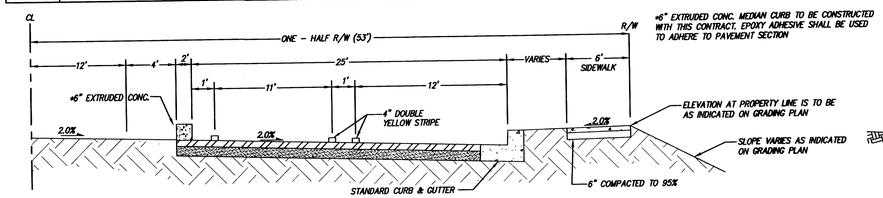
SHEET 5 OF 7

9049PS/9049TG503/12-07-00 ACH NHM

...\TA\DWGS\9049PS\9049TG503.DWG Thu Dec 07 12:51:58 2000 PLOTTED BY NHM

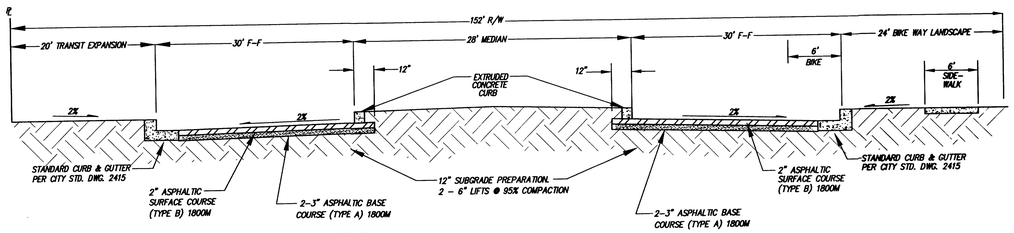






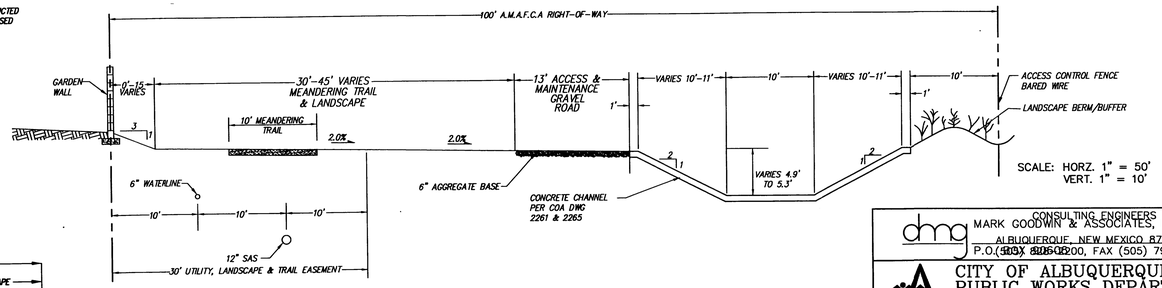
TYPICAL SECTION LADERA DRIVE 1/2 SECTION NORTH OF TRANSITION

N.T.S.



LADERA DRIVE WEST END OF TRANSITION

N.T.S.



TYPICAL SECTION B-B

SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

			EQUATION
SLOPE	1.85%	1.00%	
D	2.87'	3.37'	
V	24.59 FPS	19.69 FPS	
FREEBOARD	2.01'	1.92'	0.7 (2.0+0.025 V^2D)
RADIUS		1250	
SUPERELEVATION	0.42'	0.23'	$1.3\frac{V^2(B+2ZD)}{gR}$
TOTAL	5.30'	5.52'	
Q_{max} =1113cfs		n=0.13	

FOR INFORMATION ONLY NOT FOR CONSTRUCTION

9049PS/I-40PPB/11-29-00 ACH KJS NHM

AS BUILT INFORMATION

CONTRACTOR — DATE
WORK STAKED BY — DATE
ACCEPTANCE BY — DATE
FIELD LOCATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99987114
ELEVATION = 5316.951

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

JAMES D. HUGGINS — NEW MEXICO — 9374 — REGISTERED PROFESSIONAL ENGINEER
11-30-00
Rev 12-7-00 (DH)

NO.	DATE	REMARKS	BY
		DESIGN	JDH
		REVISIONS	NHM ACH
			DWG

DESIGNED BY JDH DATE 09/00
DRAWN BY NHM ACH DATE 09/00
CHECKED BY DWG DATE 09/00

dmg
CONSULTING ENGINEERS
MARK GOODWIN & ASSOCIATES, P.A.
ALBUQUERQUE, NEW MEXICO 87199
P.O. BOX 26600, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION
WEST INTERSTATE 40 DIVERSION CHANNEL
PROFILE AND TYPICAL SECTION

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

CITY PROJECT NO. | ZONE MAP NO. J-9 | SHEET 6 OF 7

...DATA\DWGS\9049PS\I-40PPB.dwg Wed NOV 29 10:56:57 2000 PLOTTED BY NHM

PHASING PLAN

THE EARTHWORK WILL BE SPLIT INTO TWO MAJOR PHASES. UNITS 1, 2 AND 3 WILL ALL BE GRADED AT ONCE AS THE FIRST PHASE. THEN UNITS 4, 5 AND 6 WILL ALL BE GRADED AS THE SECOND PHASE. THE ULTIMATE DRAINAGE OUTFALL FOR ALL ON-SITE DRAINAGE WILL BE AMAFCA'S WEST I-40 DIVERSION CHANNEL WHICH MAY BEGIN CONSTRUCTION AS EARLY AS NOVEMBER 2001. PHASE 1 OF PAINTED SKIES IS EXPECTED TO BEGIN A YEAR EARLIER IN NOVEMBER 2000 AND WILL INCLUDE TEMPORARY RETENTION PONDS #D, E AND F SIZED FOR THE 100 YR., 10 DAY RUNOFF FROM THE DEVELOPED PORTIONS OF THE SITE, AND POND G WILL BE TEMPORARILY OVERSIZED TO RECEIVE THE 100 YR., 10 DAY RUNOFF (2.6 ACFT) FROM THE UNDEVELOPED LAND WEST OF UNITS 1, 2 AND 3 WHICH WILL BE DIVERTED INTO THE POND BY A TEMPORARY DIVERSION DIKE ALSO TO BE CONSTRUCTED WITH THE FIRST PHASE OF GRADING.

TEMPORARY DIVERSION DIKE (DD)

TEMPORARY DIVERSION DIKE

Construction Specifications

1. Temporary diversion dikes must be installed as a first step in the land-disturbing activity and must be functional prior to upslope land disturbance.
2. The dike should be adequately compacted to prevent failure.
3. Temporary or permanent seeding and mulch shall be applied to the dike immediately following its construction.
4. The dike should be located to minimize damages by construction operations and traffic.

Maintenance

The measure shall be inspected after every storm and repairs made to the dike, flow channel, outlet or sediment trapping facility, as necessary. Once every two weeks, whether a storm event has occurred or not, the measure shall be inspected and repairs made if needed. Damages caused by construction traffic or other activity must be repaired before the end of each working day.

LEGEND

- MOUNTABLE CURB & GUTTER
- STANDARD 8" CURB & GUTTER
- PROPOSED DRAINAGE BASIN
- TRACT/LOT BOUNDARY
- RIGHT OF WAY
- EASEMENTS
- W — PROPOSED WATERLINE
- SAS — PROPOSED SANITARY SEWER
- CENTERLINE OF ROAD
- EXISTING CURB AND GUTTER
- EXISTING SANITARY SEWER MANHOLE
- EXISTING WATER VALVE
- 8"W — EXISTING WATERLINE
- EXISTING FIRE HYDRANT
- EXISTING STORM SEWER MANHOLE
- SAS — EXISTING SANITARY SEWER
- EXISTING EDGE OF PAVEMENT
- 4' DEFERRED SIDEWALK
- (DD) DIVERSION DIKE
- 20 LOT 20

LADERA ROAD
TRACT B
EXIST. 3 WIDE PRIVATE DRAINAGE AND COMMON USE EASEMENT (TYP.)
FARMLAND VIEW UNIT 12
PARKLAND VIEW STREET
PAINTED SKY ELEMENTARY SCHOOL
TESSA DRIVE
PARKWAY UNIT 8
TRACT A
GAVIN ROAD
MANDARIN ROAD
TANGERINE ROAD
ELIYAH COURT
NORA COURT
BLOCK A
BLOCK B
BLOCK C
BLOCK D
BLOCK E
BLOCK F
BLOCK G
BLOCK H
BLOCK J
BLOCK K
TRACT C
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT
PUBLIC DRAINAGE EASEMENT FOR THE BENEFIT OF THE CITY OF ALBUQUERQUE FOR THE PORPOISE OF TEMPORARY RETENTION POND TO BE MAINTAINED BY WESTLAND.
EMERGENCY OVERFLOW SPILLWAY
Q_{100}=70.34 cfs
CREST ELEV. = 00.00
WIDTH = 50'
DEPTH = 0.65'
VELOCITY = 2.2 fps
POND #D
(3:1 SLOPES)
100 YR ELEV=99.4
100 YR VOLUME = 3.832 oc. ft.
APPROXIMATE LIMITS OF SPECIAL FLOOD HAZARD AREA ZONE "A" AS SHOWN ON A LETTER OF MAP REVISION, FEMA CASE# 97-06-1026P, EFFECTIVE SEPT. 25 1997
10' x 10' POND
BOTTOM ELEVATION = 99.4±
10' WIDE MIN. DAM
TOP ELEVATION = 09.4
BOTTOM ELEVATION = 99.4
POND #E
(3:1 SIDE SLOPES)
100 YR ELEV = 08.7
100 YR VOLUME = 0.375 oc. ft.
FUTURE INV. CHANNEL = 01.49
INV. PIPE = 04.00
15' WIDE MIN. DAM
TOP ELEVATION = 13.3
FUTURE INV. CHANNEL = 06.77
INV. PIPE = 09.27
20' x 20' POND
BOTTOM ELEVATION = 03.3
POND #F
(3:1 SIDE SLOPES)
100 YR ELEV = 08.7
15' WIDE MIN. DAM
TOP ELEVATION = 18.5
20' x 30' POND
BOTTOM ELEVATION = 08.5
POND #G
(3:1 SIDE SLOPES)
100 YR ELEV. = 17.6
100 YR VOLUME = 0.630 oc. ft.
15' WIDE MIN. DAM
TOP ELEVATION = 24.0
10' EROSION SETBACK
ENDEE RD.
POND #J
(2:1 SIDE SLOPES)
100 YR ELEV. = 23.4
100 YR VOLUME = 2.983 oc. ft.
15' WIDE MIN. DAM
TOP ELEVATION = 29.4
LIMITS OF SPECIAL FLOOD HAZARD AREA ZONE "AO" (DEPTH 1') AS SHOWN ON PANEL FLOOD INSURANCE RATE MAP EFFECTIVE SEPT. 20 1996
A.M.A.F.C.A. R/W FUTURE GRADING NOT PART OF THIS PROJECT

100' 50' 0 100' 200'
SCALE: 1" = 100'

99049PS/9049GDALL/09-18-00/ACH

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY — DATE
INSPECTORS — DATE
ACCEPTANCE BY — DATE
AS BUILT VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
G-G = 0.99967114
ELEVATION = 5316.951

SURVEY INFORMATION
FIELD NOTES BY — DATE
NO.

ENGINEER'S SEAL
JAMES D. HUGHES 14831 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER
9-1-00
Rev 11-13-00
Rev 12-7-00 JDH

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	JDH 09/00
		DRAWN	ACH 09/00
		CHECKED	DMG 09/00

DESIGNED BY — DATE
DRAWN BY — DATE
CHECKED BY — DATE

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
ENGINEERING DEVELOPMENT GROUP

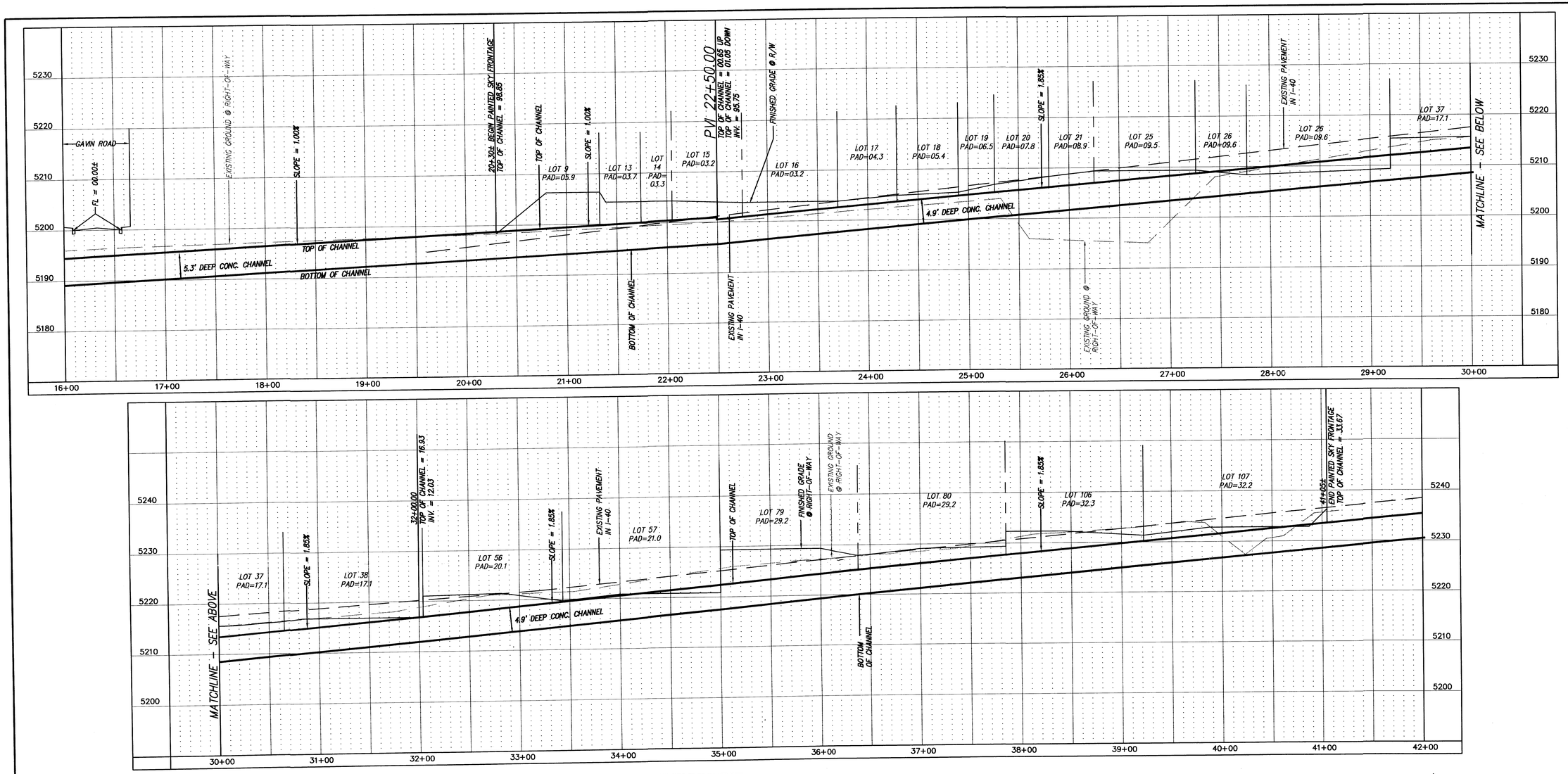
TITLE: PAINTED SKY SUBDIVISION
MASTER GRADING & DRAINAGE PLAN
PHASE 1 GRADING

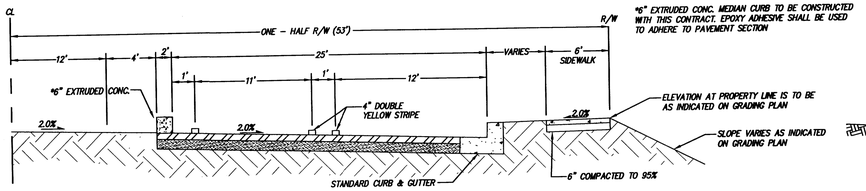
DESIGN REVIEW COMMITTEE	CITY ENGINEER APPROVAL	LAST DESIGN UPDATE	MO./DAY/YR.	MO./DAY/YR.

CITY PROJECT NO.

ZONE MAP NO. C-20-Z

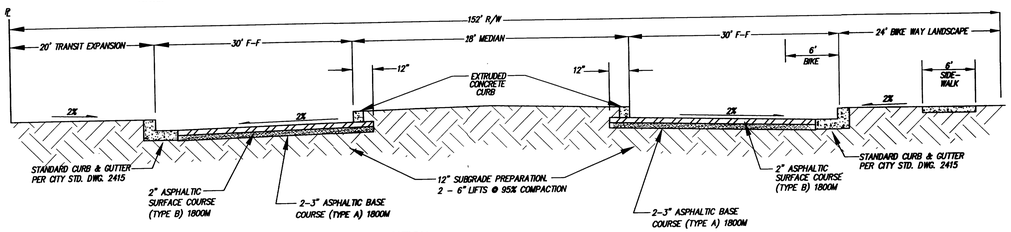
SHEET 7 OF 7





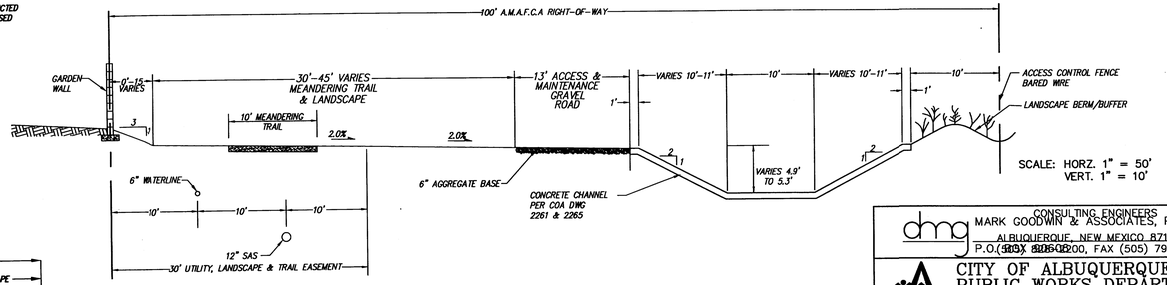
TYPICAL SECTION LADERA DRIVE 1/2 SECTION NORTH OF TRANSITION

N.T.S.



LADERA DRIVE WEST END OF TRANSITION

N.T.S.



TYPICAL SECTION B-B

SCALE: HORZ. 1" = 50'
VERT. 1" = 10'

			EQUATION
SLOPE	1.85%	1.00%	
D	2.87'	3.37'	
V	24.59 FPS	19.69 FPS	
FREEBOARD	2.01'	1.92'	$0.7\ (2.0+0.025\ VD^{1/3})$
RADIUS		1250	
SUPERELEVATION	0.42'	0.23'	$1.3\ \frac{V^2(B+2ZD)}{gR}$
TOTAL	5.30'	5.52'	
Q_{100} =1113cfs		n=0.13	

9049PS/I-40PPB/10-11-00 NHM ACH KJS

AS BUILT INFORMATION

CONTRACTOR

	DATE
WORK STAKED BY	
ACCEPTANCE BY	
FIELD VERIFICATION BY	
DRAWINGS CORRECTED BY	

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS MONUMENT "REWARD"
N.M. STATE PLANE COORDINATES
(CENTRAL ZONE) NAD 27
X = 350944.85 Y = 1487301.42
DELTA ALPHA = -01°11'
C-C = 0.99967114
ELEVATION = 5316.951

SURVEY INFORMATION

FIELD NOTES

NO.	DATE	BY

ENGINEER'S SEAL

JAMES D. HUGHES NEW MEXICO 14729 REGISTERED PROFESSIONAL ENGINEER

10-11-00

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	JDH
		DESIGNED BY	JDH
		DRAWN BY	NHM ACH
		CHECKED BY	DMG

DATE 09/00
DATE 09/00
DATE 09/00

CONSULTING ENGINEERS
MARK GOODWIN & ASSOCIATES, P.A.
ALBUQUERQUE, NEW MEXICO 87199
P.O. BOX 26800, FAX (505) 797-9539

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: PAINTED SKY SUBDIVISION
WEST INTERSTATE 40 DIVERSION CHANNEL
PROFILE AND TYPICAL SECTION

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

CITY PROJECT NO.

ZONE MAP NO. J-9

SHEET 6 OF 7

V:\DATA\DWGS\95\095\9049PS\I-40PPB.dwg Wed Oct 11 15:01:02 2000 MARK GOODWIN AND ASSOCIATES; PLOTTED BY: KJS