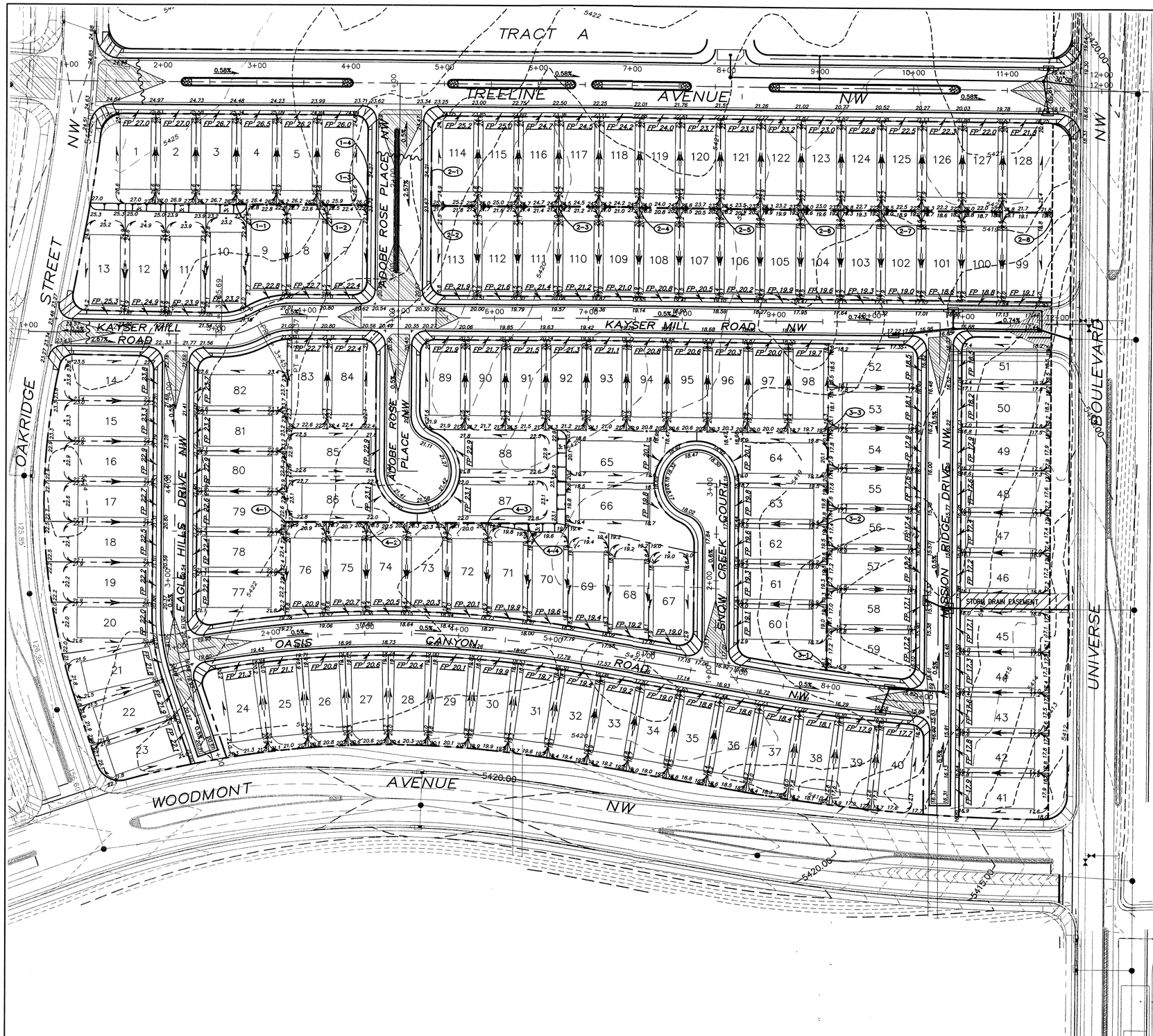


RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
1-1	26.67	22.00		
1-2	26.06/26.00	22.00/21.33	4.67	86
1-3	26.00/25.67	21.33/21.00	4.67	54
1-4	25.67	21.00	4.67	36
2-1	25.67	23.00		
2-2	25.67/25.33	23.00/20.67	2.67	36
2-3	25.33/24.67	20.67/20.67	4.67	136
2-4	24.67/24.00	20.67/20.00	4.00	86
2-5	24.00/23.33	19.33/19.33	4.00	86
2-6	23.33/23.33	19.33/18.00	4.00	86
2-7	23.33/22.67	18.00/18.00	5.33	86
2-8	22.67	18.00	4.67	182
3-1	19.67	16.33		
3-2	19.67/20.33	16.33/17.00	3.33	156
3-3	20.33	17.00	3.33	103
4-1	23.33	20.00		
4-2	23.33/22.00	20.00/19.33	3.33	86
4-3	22.00/22.67	19.33/20.67	2.67	129
4-4	22.67	20.67	2.00	43

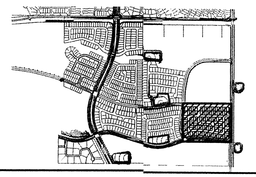
N

SCALE 50 0 50 100 FEET

LEGEND

- RETAINING WALL
- HIGH POINT
- DIRECTION OF FLOW
- XX.XX — FL LINE ELEVATION
- BASIN BOUNDARY
- TYPE DOUBLE C INLET
- (X-X) RETAINING WALL POINT
- MH TO BE BUILT WITH COA # 730084
- SD TO BE BUILT WITH COA # 730084
- PROPOSED SD MANHOLE
- PROPOSED SD PIPE
- CUT OR FILL SLOPE

INDEX MAP



AS-BUILT INFORMATION

		DATE
CONTRACTOR		
PLANS STAMPED BY		DATE
INSPECTORS		
FIELD VERIFICATION BY		DATE
FIELD REVISION BY		DATE
DRAWINGS CORRECTED BY		DATE
MICRO-FILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS BRASS TABLET STAMPED "2-B10 1980"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 357,543.73 Y= 1,527,976.48
Ground-to-Grid Factor = 0.99966354
∠α = -00°16'30"
SLD 1929 Elevation = 5429.35

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NEW MEXICO LICENSED PROFESSIONAL ENGINEER STEVE T. SALAZAR 16241 ME-1 CO

REVISIONS

NO.	DATE	REMARKS	BY

WILSON & COMPANY, ENGINEERS & ARCHITECTS

		DATE
DESIGNED BY	SJS	06/05/07
DRAWN BY	STF	06/05/07
CHECKED BY	SJS	06/05/07

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TAOS AT THE TRAILS UNIT 2
GRADING & 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
730089	C-9-Z	5	19

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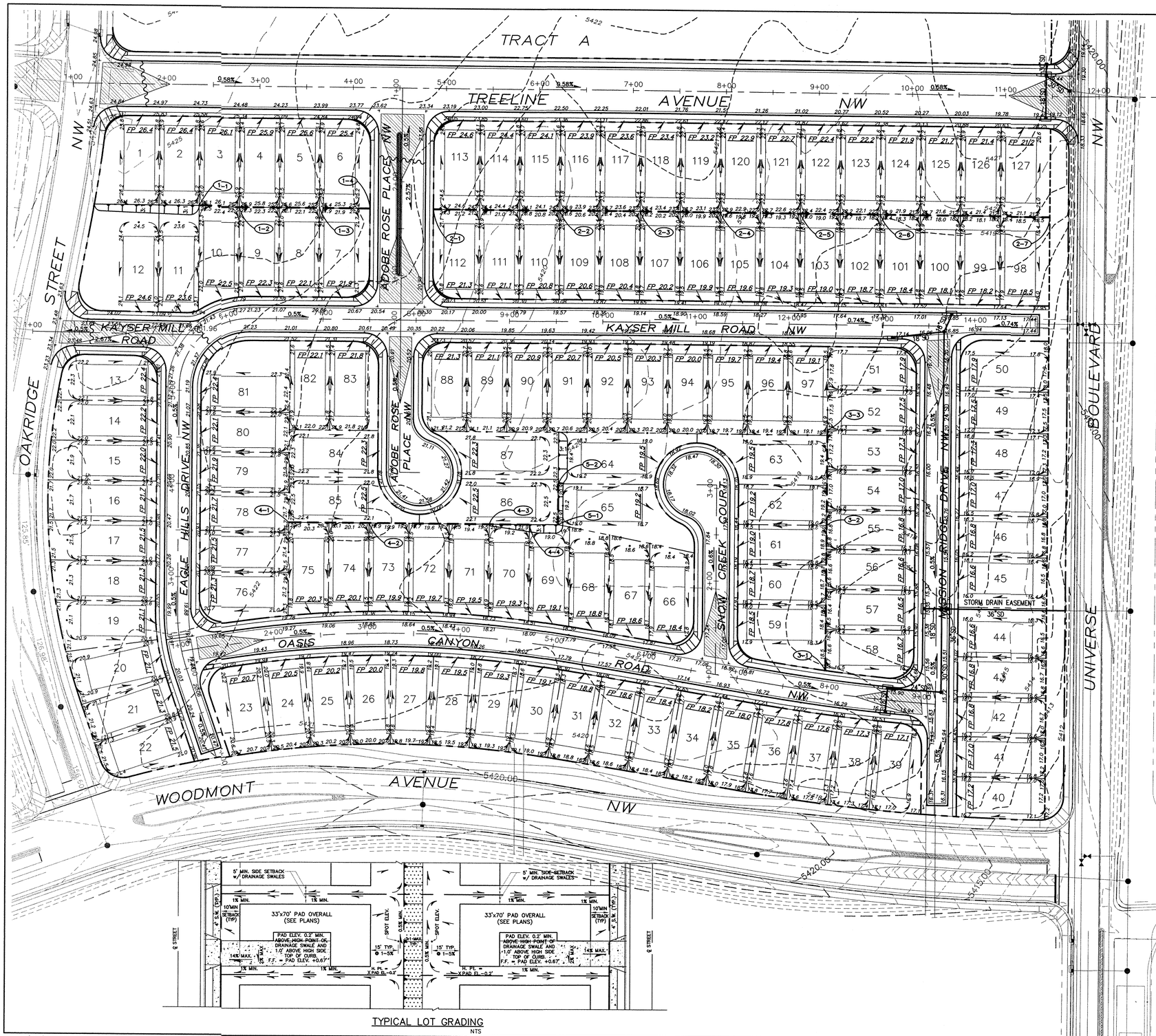


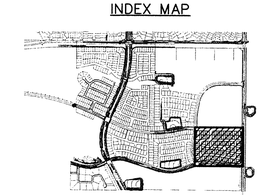
RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
1-1	26.00	22.00		
1-2	26.00/26.00	22.00/21.33	4.00	43
1-3	26.00/25.33	21.33/21.33	4.66	86
1-4	25.33	21.33	4.00	54
2-1	24.67	20.67		
2-2	24.67/24.00	20.67/20.00	4.00	136
2-3	24.00/23.33	20.00/19.33	4.00	86
2-4	23.33/23.33	19.33/18.67	4.00	86
2-5	23.33/22.67	18.67/18.00	4.67	86
2-6	22.67/22.00	18.00/17.33	4.67	86
2-7	22.00	17.33	4.67	182
3-1	18.67	16.00		
3-2	18.67/19.33	16.00/16.00	2.67	156
3-3	18.67	16.00	3.33	103
4-1	22.67	19.33		
4-2	22.67/22.67	19.33/18.67	3.33	86
4-3	22.67	20.67	4.00	172
4-4	22.67	20.67	2.00	43
5-1	22.67	20.00		
5-2	22.67	20.00	2.67	44

LEGEND

- RETAINING WALL
- HIGH POINT
- DIRECTION OF FLOW
- XX.XX ℄ LINE ELEVATION
- BASIN BOUNDARY
- TYPE DOUBLE C INLET
- (X-X) RETAINING WALL POINT
- MH TO BE BUILT WITH COA # 730084
- SD TO BE BUILT WITH COA # 730084
- PROPOSED SD MANHOLE
- PROPOSED SD PIPE
- CUT OR FILL SLOPE

INDEX MAP



TYPICAL LOT GRADING

NTS

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NEW MEXICO (6624) LICENSED PROFESSIONAL ENGINEER SALAZAR 3/21/07

AS-BUILT INFORMATION

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

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

BENCH MARKS

ACS BRASS TABLET STAMPED "2-B10 1980"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 357,543.73 Y= 1,527,976.48
Ground-to-Grid Factor = 0.99966354
$\Delta\alpha = -00°16'30"$
SLD 1929 Elevation = 5429.35

NO.	DATE	REMARKS	BY

REVISIONS

WILSON & COMPANY, ENGINEERS & ARCHITECTS

		DATE
DESIGNED BY	SJS	03/20/07
DRAWN BY	WEP	03/20/07
CHECKED BY	SJS	03/20/07

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TAOS AT THE TRAILS UNIT 2
GRADING & DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	
_	C-9-Z	PLATE 3

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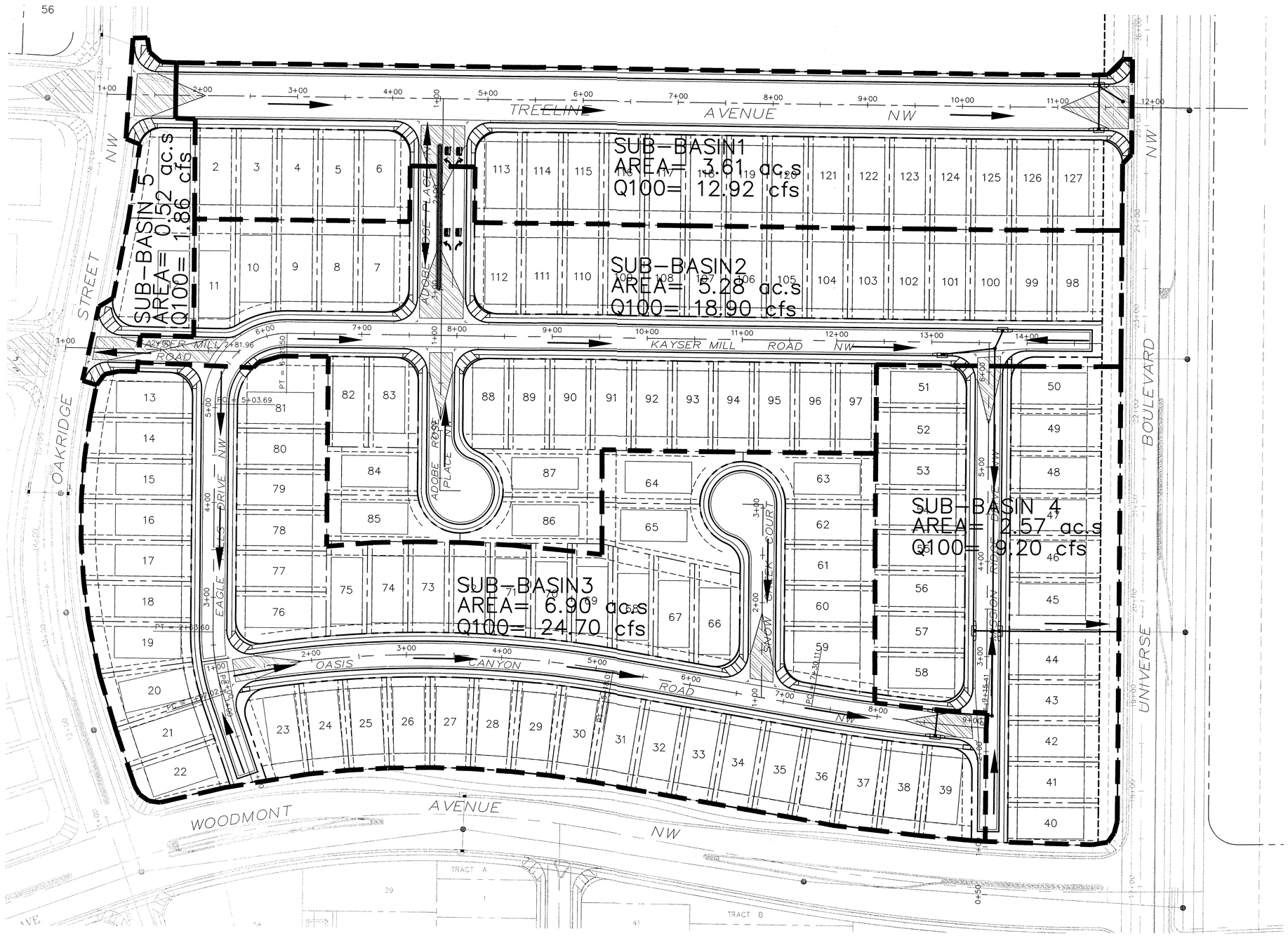

LEGEND

- BASIN BOUNDARY
- DIRECTION OF FLOW
- INLET
- STORM DRAIN MANHOLE

SCALE: 1"=50'

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 BRASS TABLET STAMPED "2-B10 1980"	
Geographic Position (NAD 1927)	
N.M. State Plane Coordinates (Central Zone)	
X= 357,543.73 Y= 1,527,976.48	
Ground-to-Grid Factor = 0.9996354	
$\Delta\alpha$ = -00°16'30"	
SLD 1929 Elevation = 5429.35	

SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

ENGINEER'S SEAL

STATE OF NEW MEXICO
J. SALAZAR
(624)
21609
LICENSED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY DATE MARCH 05
DRAWN BY DATE MARCH 05
CHECKED BY DATE MARCH 05

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TAOS AT THE TRAILS UNIT 2
SUB BASIN MAP

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	
—	C-9-Z	PLATE 4

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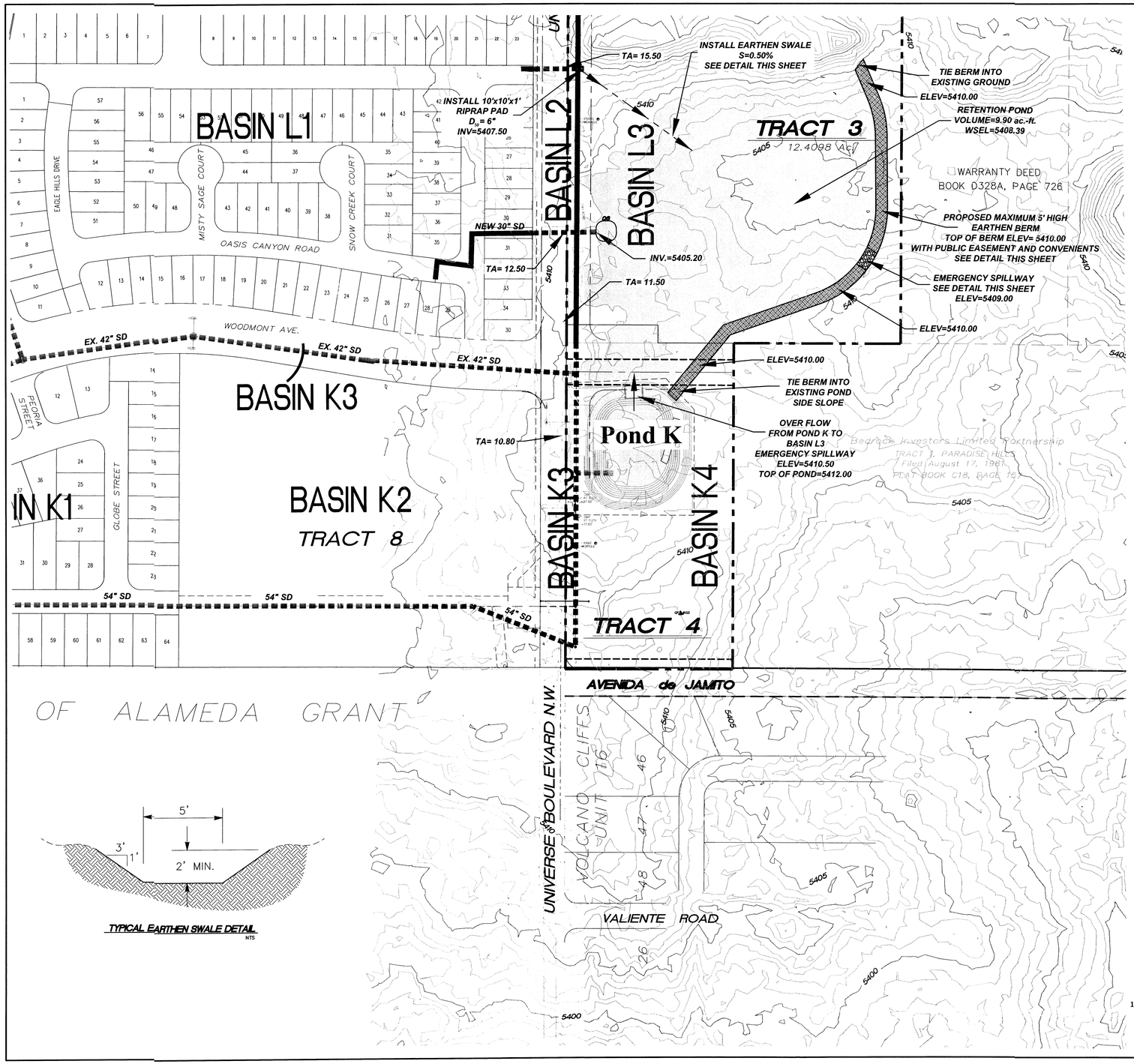
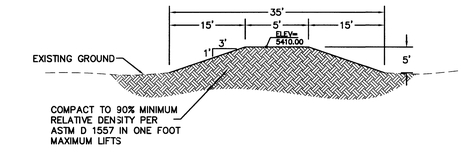
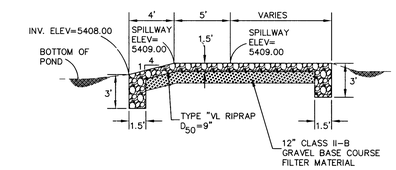
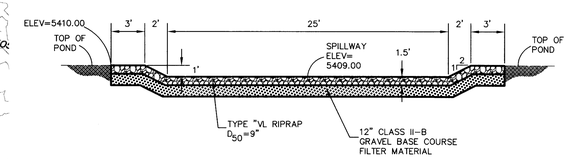




EARTHEN BERM DETAIL
NTS



EMERGENCY SPILLWAY SECTION
NTS



EMERGENCY SPILLWAY SECTION
NTS

VOLUME REQUIRED = 9.90 ac.-ft.
VOLUME PRVIDED = 14.83 ac.-ft.

GRADING AND DRAINAGE CERTIFICATION WILL INCLUDE POND VOLUME CERTIFACTION BY A P.E. TO THE REQUIRED POND VOLUME.

LEGEND

- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- PROPOSED BASIN BOUNDARY
- PROPOSED DRAINAGE BOUNDARY
- TA — TOP OF ASPHALT

AUG 12 2011

TYPICAL EARTHEN SWALE DETAIL
NTS

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 65740
ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199
FAX: (505) 830-9246

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TAOS UNIT 1 at the TRAILS
POND K GRADING PLAN

Design Review Committee	City Engineer Approval	Date	Date
		Mo./Day/Yr	Mo./Day/Yr

City Project No.	Zone Map No.	Sheet	Of
730077	C-09-Z	14	16

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
CONFIRMED BY — DATE
ELEV. CERTIFIED BY — DATE
DRAWING BY — DATE
REVIEWED BY — DATE

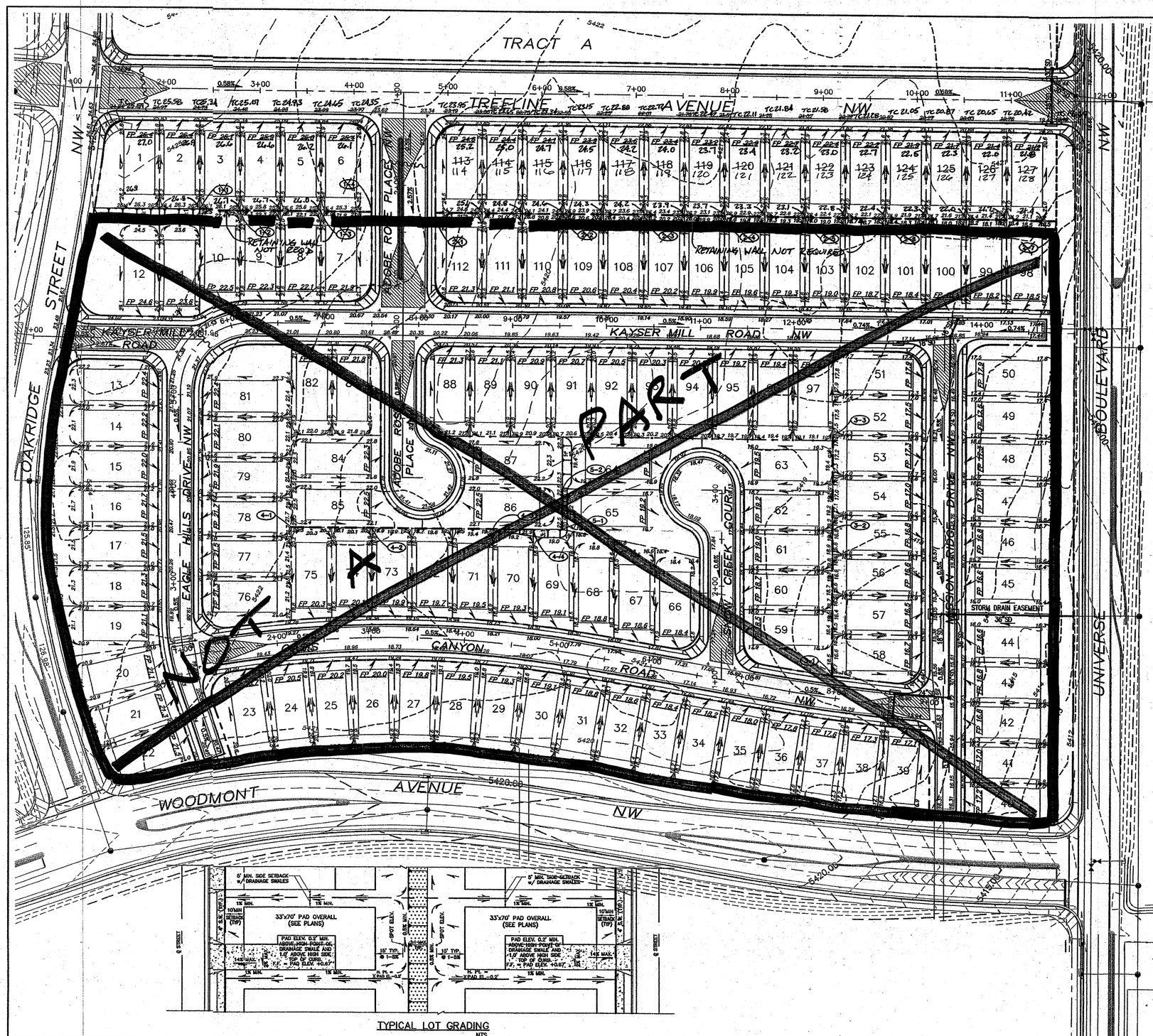
BENCH MARKS
A.C.S. BRASS TABLET STAMPED "2_B10 1986"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 357,543.73 Y= 1,527,973.48
Ground-to-Grid Factor = 0.99966354
A.G.C. = 00°16'30"
S.L.D. 1929 ELEVATION = 5429.35

SURVEY INFORMATION
NO. — BY — DATE
FIELD NOTES

ENGINEER'S SEAL
DAVID A. CAMPOS 8-5-11

REMARKS
REVISIONS
No. Date
DESIGN
Designed By: DATE
Drawn By: DATE
Checked By: DATE

RECORDED BY: DATE
NO.



TYPICAL LOT GRADING
NTS

RETAINING WALL TABLE

WALL POINT	TOP OF WALL ELEV	TOP OF FOOTING ELEV	WALL HEIGHT (FT)	APPROX. WALL LENGTH (FT)
1-1	26.00	22.00		
1-2	26.00/~~25.00~~	22.00/~~21.33~~	4.00	43
1-3	25.00/~~25.33~~	21.33/~~21.33~~	4.66	86
1-4	25.33	21.33	4.00	54
2-1	24.67	20.67		
2-2	24.67/~~24.00~~	20.67/~~20.00~~	4.00	136
2-3	24.00/~~23.33~~	20.00/~~19.33~~	4.00	86
2-4	23.33/~~23.33~~	19.33/~~18.67~~	4.00	86
2-5	23.33/~~22.67~~	18.67/~~18.00~~	4.67	86
2-6	22.67/~~22.00~~	18.00/~~17.33~~	4.67	86
2-7	22.00	17.33	4.67	182
3-1	18.67	16.00		
3-2	18.67/19.33	16.00/16.00	2.67	156
3-3	18.67	16.00	3.33	103
4-1	22.67	19.33		
4-2	22.67/22.67	19.33/18.67	3.33	86
4-3	22.67	20.67	4.00	172
4-4	22.67	20.67	2.00	43
5-1	22.67	20.00		
5-2	22.67	20.00	2.67	44

GRADING AND DRAINAGE CERTIFICATION

I, SCOTT J STEFFEN, NMPE 14664, OF THE FIRM BOHANNAN HUSTON, INC. HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED GRADING AND DRAINAGE PLAN DATED 03/21/07. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN PROVIDED BY RUSS HUGG, NMPS 9750, OF SURV-TEK, INC.
I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 01/05/12, AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE DATA PROVIDED IS REPRESENTATIVE OF ACTUAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THE RETAINING WALL ALONG THE REAR PROPERTY LINE FOR LOTS 3-6 AND 114-128 IS NOT REQUIRED DUE TO REDESIGN OF THE LOTS TO THE SOUTH AS PART OF THE TAOS UNIT 1 AT THE TRAILS DEVELOPMENT (DRB#1008797). THE REDESIGN OF THE LOTS RESULTED IN A REAR LOT LINE ELEVATION DIFFERENCE OF 2.0' OR LESS.

THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE GRADING 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.

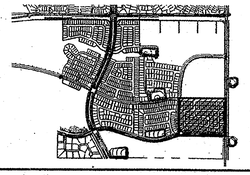
Scott J Steffen 1/9/12
SCOTT J STEFFEN, NMPE 14664 DATE

SCOTT J. STEFFEN NEW MEXICO 14664 REGISTERED PROFESSIONAL ENGINEER

LEGEND

- RETAINING WALL
- HIGH POINT
- DIRECTION OF FLOW
- XX.XX — ℄ LINE ELEVATION
- BASIN BOUNDARY
- TYPE DOUBLE C INLET
- (X-X) — RETAINING WALL POINT
- MH TO BE BUILT WITH COA # 730084
- SD TO BE BUILT WITH COA # 730084
- PROPOSED SD MANHOLE
- PROPOSED SD PIPE
- CUT OR FILL SLOPE

INDEX MAP



SURVEY INFORMATION		
FIELD NOTES		
NO.	BY	DATE

BENCH MARKS
ACS BRASS TABLET STAMPED "2-B10 1980"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 357,543.73 Y= 1,527,976.48
Ground-to-Grid Factor = 0.99966354
ΔC = -00°16'30"
SLD 1929 Elevation = 5429.35

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
FINAL ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

ENGINEER'S SEAL
SCOTT J. SALAZAR NEW MEXICO (16224) LICENSED PROFESSIONAL ENGINEER 3/21/07

NO.	DATE	REMARKS / REVISIONS	BY

WILSON & COMPANY, ENGINEERS & ARCHITECTS
DESIGNED BY SJS DATE 03/20/07
DRAWN BY WEP DATE 03/20/07
CHECKED BY SJS DATE 03/20/07

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 896-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

TAOS AT THE TRAILS UNIT 2
GRADING & DRAINAGE PLAN

Design Review Committee — Mo./Day/Yr. — Mo./Day/Yr.
Last Design Update

RECEIVED
JAN 10 2012
HYDROLOGY SECTION

City Project No. —
Zone Map No. C-9-Z
PLATE 3

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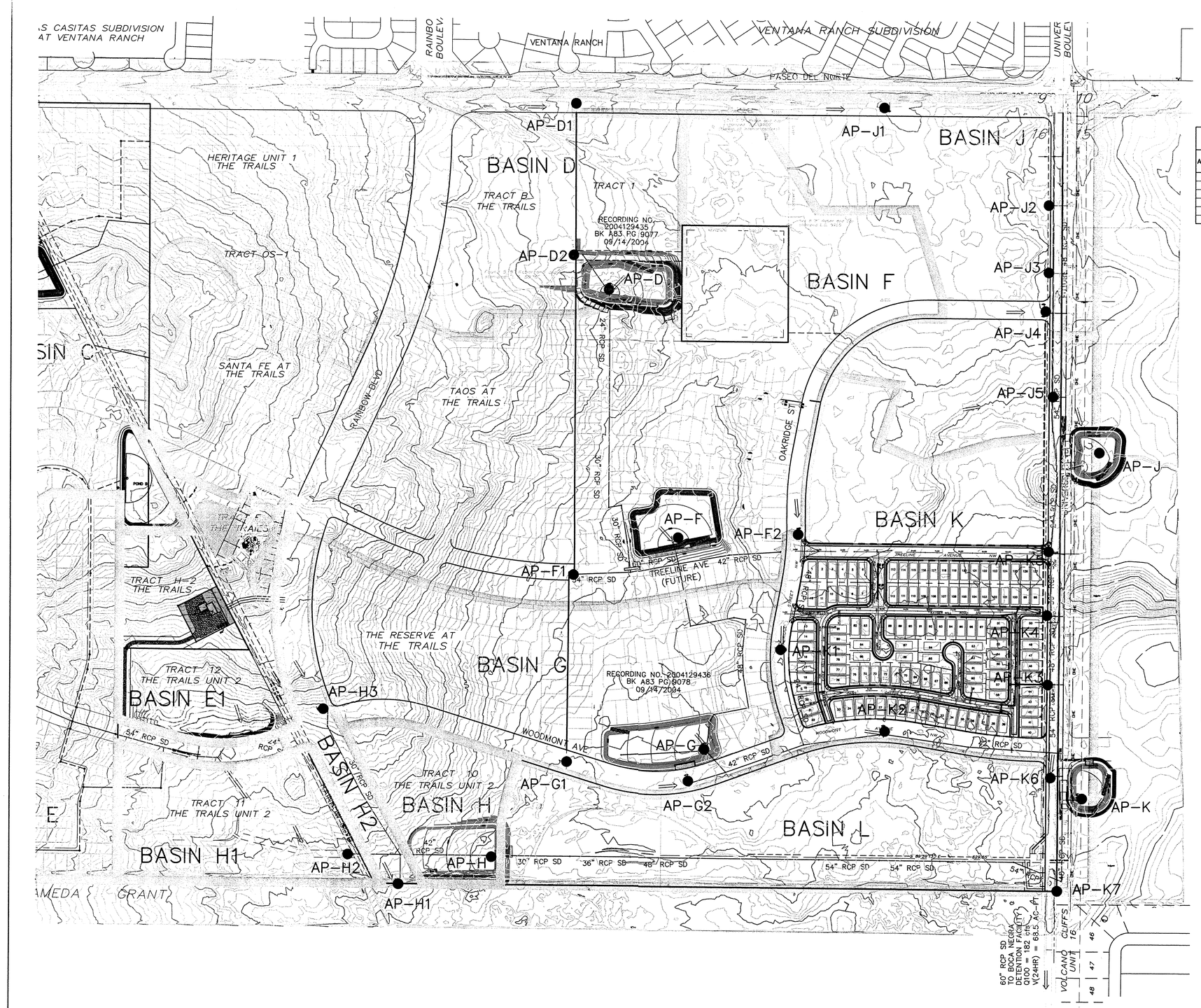


LEGEND

BASIN BOUNDARY

SUB-BASIN BOUNDARY

FLOW DIRECTION

Developed Condition SURGE POND SUMMARY

Analysis Point	Description	Drainage Area (Ac.)	Q100 (cfs)in	Q100 (cfs)out	MAX STORAGE (Ac-Ft)	TOP ELEV =	BOP ELEV =	MAX WSEL =
AP-D	POND D	253.25	164.89	23.56	5.39	5436.85	5430.00	5436.21
AP-F	POND F	349.70	338.86	33.92	9.41	5424.33	5416.00	5423.04
AP-G	POND G	381.63	138.81	33.51	3.66	5422.50	5416.00	5420.35
AP-J	POND J	32.90	82.74	21.37	2.14	5423.00	5417.00	5421.87
AP-H	POND H	164.29	112.14	35.28	2.77	5422.00	5418.00	5421.87
AP-K	POND K	459.65	164.27	101.37	2.15	5410.50	5405.00	5410.18

Developed Condition SUB-BASIN ANALYSIS POINT SUMMARY

Analysis Point	Description	Drainage Area (Ac.)	Q100 (cfs)
AP-D1	PASEO DEL NORTE BYPASS FLOW	–	12.85
AP-D2	FROM HERITAGE-REPORT DATED 03/04	–	172.0
AP-F1	FROM SANTA FE/TAOS-REPORT DATED 12/03	–	167.4
AP-F2	OAKRIDGE ST INLETS	2.36	8.03
AP-G1	FROM RESERVE-REPORT DATED 04/04	–	52.80
AP-G2	WOODMONT AVE SUMP INLETS	4.26	17.99
AP-H1	RAINBOW INLETS	3.15	12.88
AP-H2	TRACT 11 STUB	11.71	33.32
AP-H3	RAINBOW INLETS	2.62	11.06
AP-J1	PASEO DEL NORTE SUMP INLETS	3.04	12.85
AP-J2	STUB TO UNIVERSE STORM DRAIN	14.54	36.65
AP-J3	UNIVERSE INLETS	2.92	12.31
AP-J4	OAKRIDGE ST INLETS	0.82	3.47
AP-J5	STUB TO UNIVERSE STORM DRAIN	4.22	12.00
AP-K1	OAKRIDGE ST SUMP INLETS	1.34	5.65
AP-K2	WOODMONT AVE SUMP INLETS	2.04	8.62
AP-K3	STUB TO UNIVERSE STORM DRAIN	10.84	31.35
AP-K4	STUB TO UNIVERSE STORM DRAIN	6.37	18.41
AP-K5	STUB TO UNIVERSE STORM DRAIN	12.85	36.54
AP-K6	UNIVERSE INLETS	6.24	21.29
AP-K7	TRAILS OUTFALL TO BOCA NEGRA DAM	651.0	181.75

HYDROLOGIC DATA – DEVELOPED

BASIN	AREA (acres)	LAND TREATMENT PERCENTAGES BY TYPE A	B	C	D	YIELD (cfs/ac)	Q_{100} (cfs)	V_{100-24} (ac-ft)
ON-D	58.30	0	25	25	50	2.61	151.97	7.84
ON-H	7.43	0	15	25	60	3.54	26.30	1.11
ON-H1	11.71	0	39.9	39.9	20.2	2.77	32.46	1.10
ON-H2	5.77	0	0	10	90	4.10	23.59	1.09
ON-G	31.93	0	25	25	50	4.29	105.96	4.29
ON-F	82.94	0	25	25	50	3.32	274.98	11.15
ON-J	32.92	0	25	25	50	2.52	82.74	4.42
ON-K	45.12	0	25	25	50	2.84	128.14	6.06
ON-L	27.03	0	19	19	62	3.10	83.92	4.07

GRAPHIC SCALE

200 0 100 200 400 800

(IN FEET)
1 inch = 200 ft.

N

AS-BUILT INFORMATION
CONTRACTOR DATE
WORK STAKED BY DATE
INSPECTED BY DATE
AS-BUILTED BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
ACCEPTED BY DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "2-B10 1980"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 357,543.73 Y= 1,527,976.48
Ground-to-Grid Factor = 0.99966354
ΔCC = -00°16'30"
SLD 1929 Elevation = 5429.35

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

ENGINEER'S SEAL
NEW MEXICO LICENSED PROFESSIONAL ENGINEER (6824) SALAZAR

NO.	DATE	REMARKS	BY
		REVISIONS	

WILSON & ENGINEERS & ARCHITECTS

DESIGNED BY	DMD	DATE OCT 2005
DRAWN BY	DMD	DATE OCT 2005
CHECKED BY	SJS	DATE OCT 2005

WILSON & COMPANY
2600 THE AMERICAN ROAD S.E.
SUITE 100
RIO RANCHO, NEW MEXICO
87124
(505) 898-8021

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING GROUP

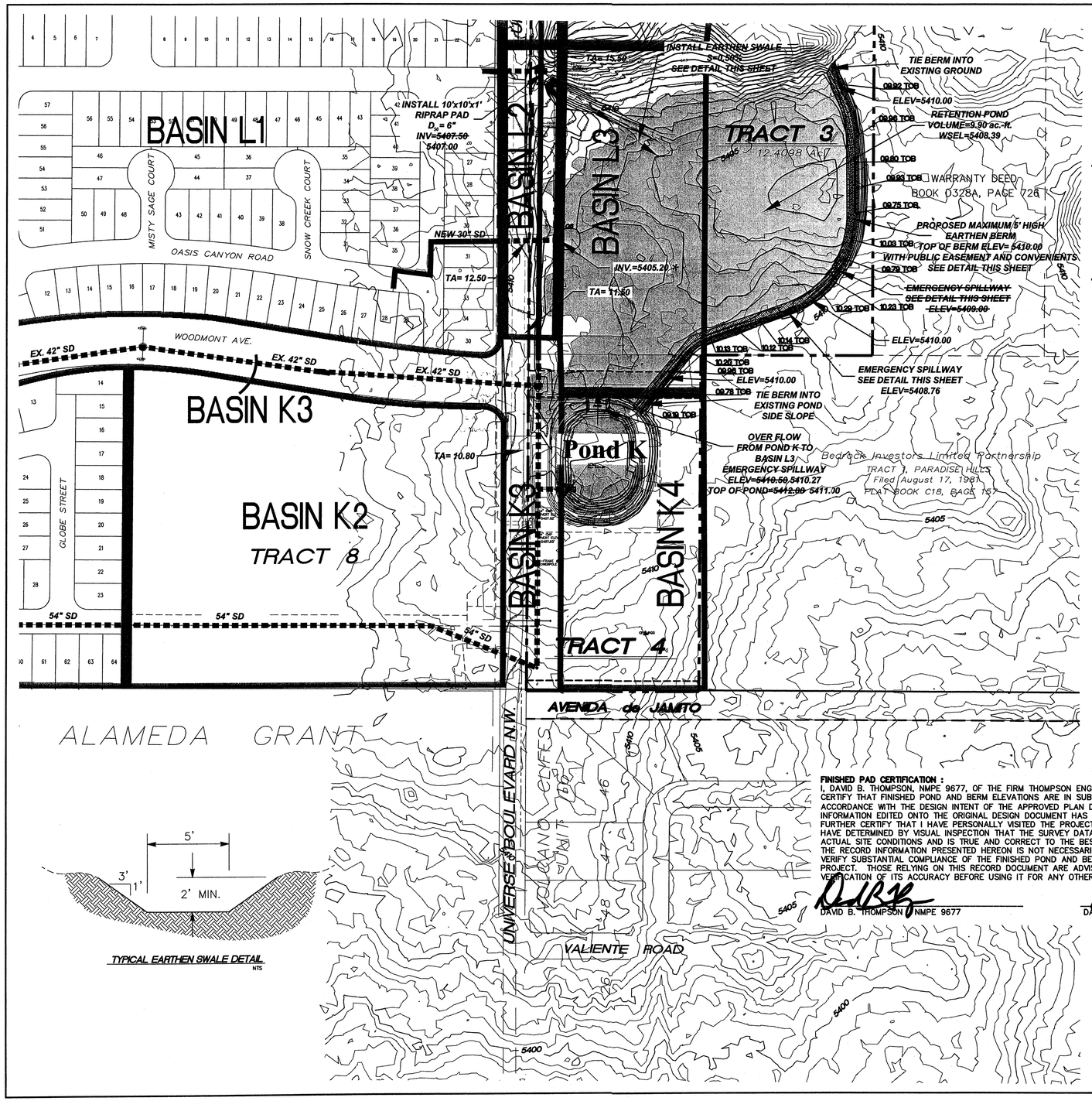
TAOS AT THE TRAILS UNIT 2
OVERALL POND GRADING & DRAINAGE PLAN
DEVELOPED CONDITIONS

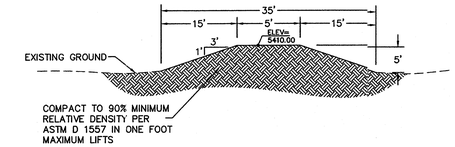
Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

City Project No. | Zone Map No. C-9-Z | PLATE 2

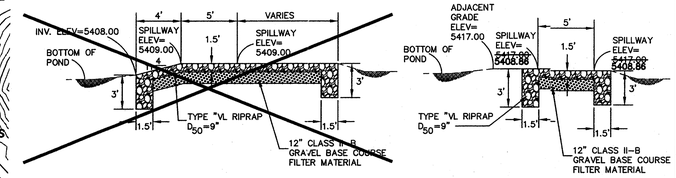
M:\IDS\07-600-001-00\AE_DATA\CALCS\Hydrology\D Report\PLATE-2 DRAINAGE-DEV.dwg 3/21/2007 1:33:07 PM MDT

009/0006

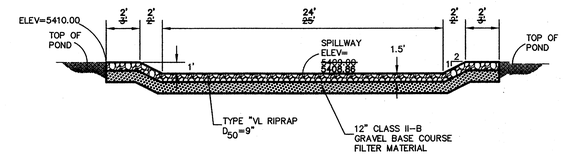




EARTHEN BERM DETAIL
NTS



EMERGENCY SPILLWAY SECTION
NTS



EMERGENCY SPILLWAY SECTION
NTS

*NEW 30" SD TO BE EXTENDED TO POND WITH THE CONSTRUCTION OF TAOS INFRASTRUCTURE.

VOLUME REQUIRED = 9.90 ac.-ft.
VOLUME PRVIDED = ~~14.83~~ ac.-ft.
14.94

GRADING AND DRAINAGE CERTIFICATION WILL INCLUDE POND VOLUME CERTIFACTION BY A P.E. TO THE REQUIRED POND VOLUME.

TYPICAL EARTHEN SWALE DETAIL
NTS

LEGEND

- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- PROPOSED BASIN BOUNDARY
- PROPOSED DRAINAGE BOUNDARY
- TA — TOP OF ASPHALT

RECEIVED
JAN 2 3 2012
HYDROLOGY SECTION

FINISHED PAD CERTIFICATION :
I, DAVID B. THOMPSON, NMPE 9677, OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, INC., HEREBY CERTIFY THAT FINISHED POND AND BERM ELEVATIONS ARE IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 8/12/11. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY SURV TEK, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON JANUARY 23, 2012 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. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE FINISHED POND AND BERM ELEVATION 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.

DAVID B. THOMPSON NMPE 9677 — DATE 1-23-12

DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER

Thompson Engineering Consultants, Inc.
tecnm@yahoo.com
P.O. BOX 65760 ALBUQUERQUE, NM 87193
PHONE: (505) 271-2199
FAX: (505) 830-9248

N

100' 50' 0 100' 200'
SCALE: 100'

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICROFILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "2-B10 1980"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 357,543.73 Y= 1,527,973.48
Ground-to-Grid Factor = 0.99966354
$\Delta\alpha$ = -00°16'30"
SLD 1929 ELEVATION = 5429.35

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: DATE:
Drawn By: DATE:
Checked By: DATE:

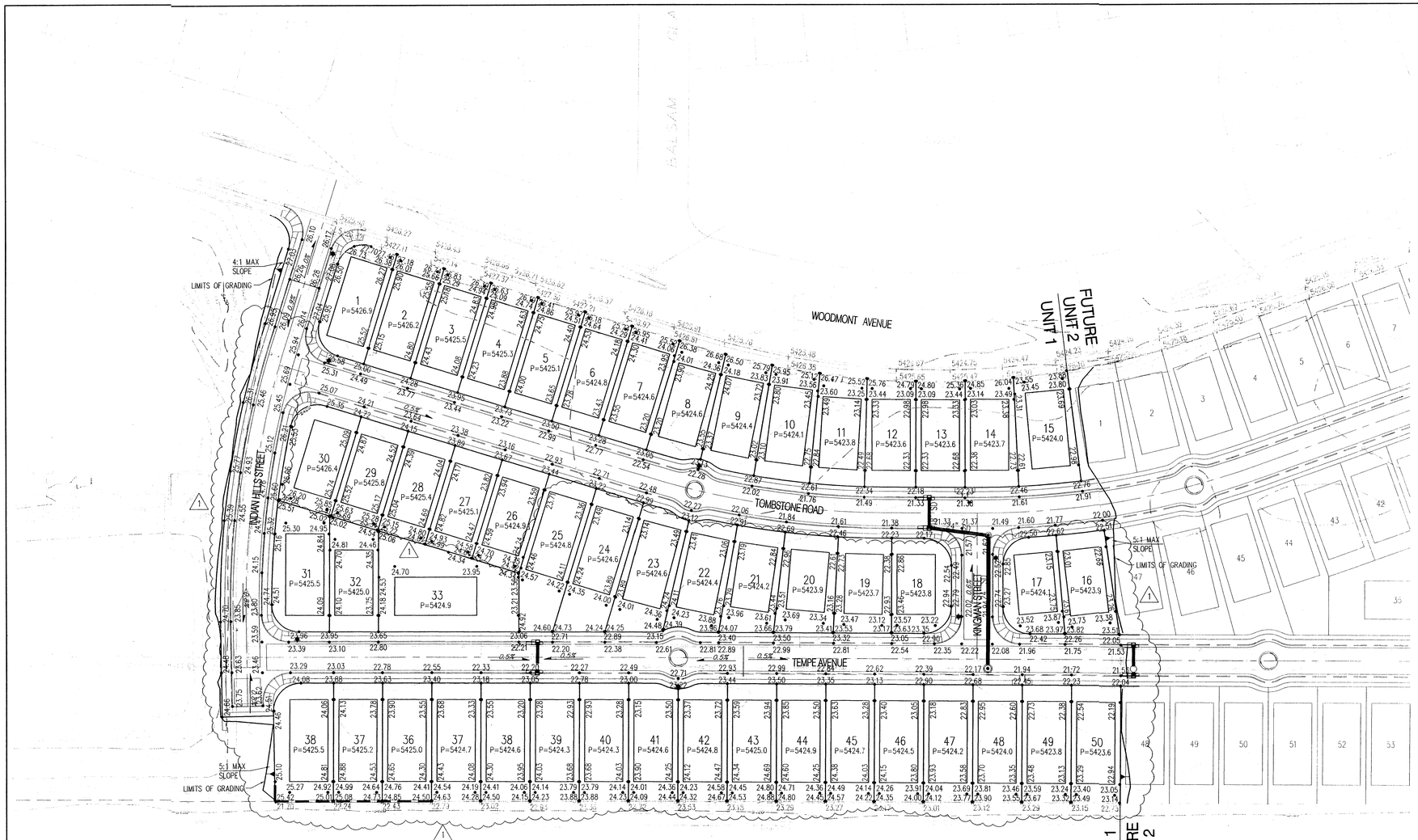
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TAOS UNIT 1 at the TRAILS
POND K GRADING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
730077	C-09-Z	14	16

\projects\Longford Trails DMP\C-ANTATA-POND-CERT.dwg, 1/23/2012 1:11:07 PM



GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT BY GEO-TEST, INC. DATED 9-29-10

3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES & 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, SHEET 3B, AND WETTING THE SOIL TO KEEP IT FROM BLOWING.

5. ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

6. BOULDERS GREATER THAN 3 FEET IN DIAMETER EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.

7. ALL WALLS SHOWN ARE TO BE PLACED ALONG PROPERTY LINE. WALLS ARE SHOWN OFFSET FOR VISUAL PURPOSE ONLY.

N

50 25 0 50

1" = 50'

LEGEND

(91.62)	FUTURE SPOT ELEVATION
91.62	PROPOSED SPOT ELEVATION
92.46	EXISTING SPOT ELEVATION (GRND & TC)
	EXISTING CURB & GUTTER
	PROPOSED MOUNTABLE CURB & GUTTER
	PROPOSED STANDARD CURB & GUTTER
5470	EXISTING CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
	PROPOSED RETAINING WALL (TO BE BUILT BY HOMEOWNER)
	PROPOSED GARDEN WALL, CONCRETE FILLED TO 1-FOOT DEPTH
	PROPOSED SLOPE
	PROPOSED STORM DRAIN
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN INLET
	PROPOSED CATTLE GUARD INLET
	WALL DRAIN PER DETAIL SHEET 3
	GRADING PHASE BOUNDARY
	HIGH POINT
	TEMPORARY BERM

AS-BUILT INFORMATION

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

MICROFILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS BRASS TABLET STAMPED "7-C10"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 1,499,200.29 Y = 1,521,838.43
GROUND-TO-GRID FACTOR = 0.999667290
$\Delta\alpha$ = -00°16'20"
NAVD 1988 ELEVATION = 5425.21

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

SCOTT A. SANDERSON NEW MEXICO 10201 PROFESSIONAL ENGINEER 8/31/11

No.	Date	REMARKS	By
1	8/31/11	REVISE TEMPE/INDIAN HILLS & LOTS ADJACENT TO STREETS	SJS

REVISIONS
DESIGN

Designed By: SJS DATE:
Drawn By: DTH DATE:
Checked By: SJS DATE:

Bohannan Huston

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TIERRA VISTA UNIT 1 at the TRAILS
GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.
			SEP 6	2011

City Project No.	Zone Map No.	Sheet	Of
XXXXXX	C-09-Z	1	3

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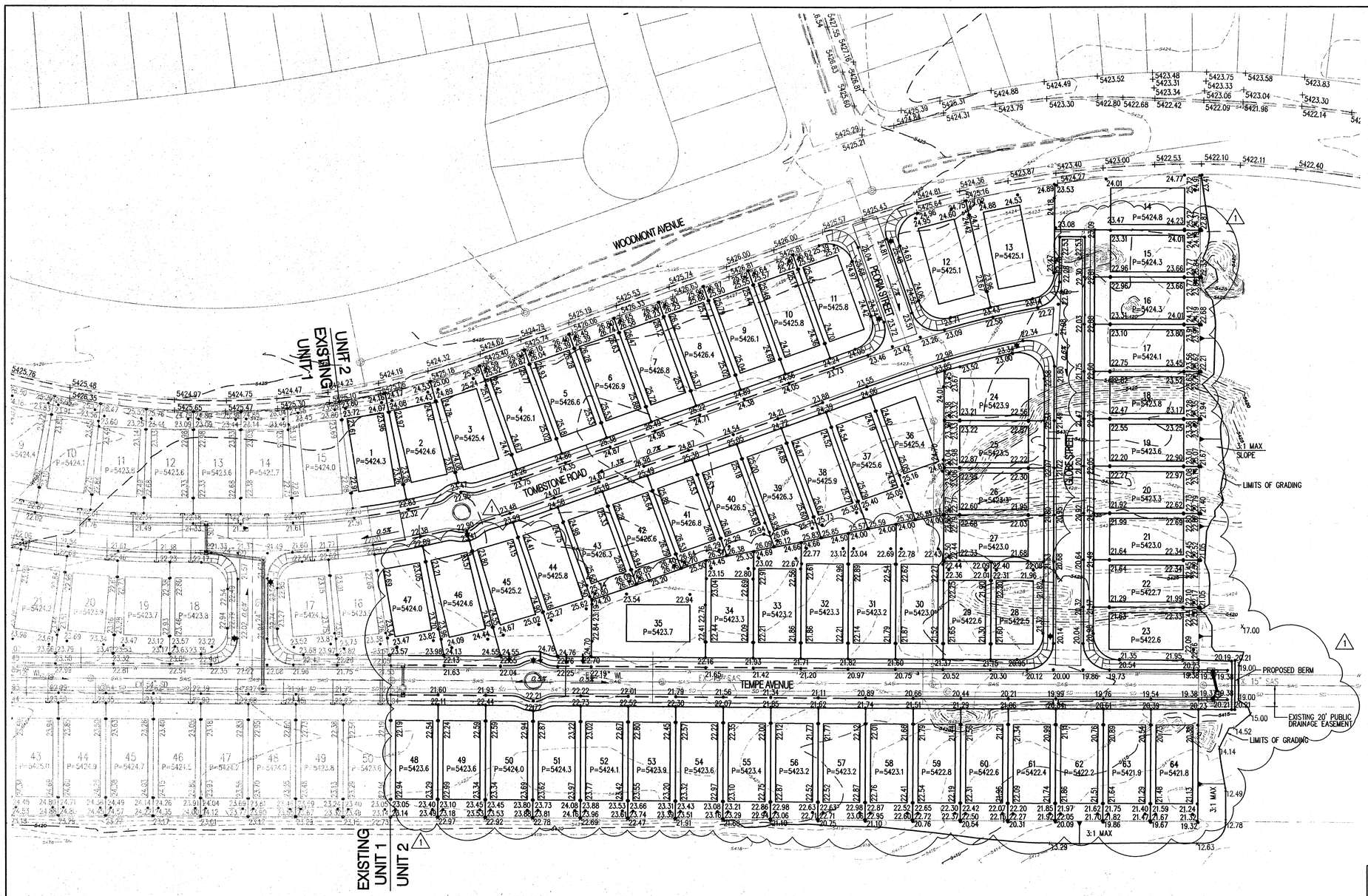

GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT BY GEO-TEST, INC. DATED 9-29-10

3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES & REQUIREMENTS AND WILL BE RESPONSIBLE FOR PREPARING AND OBTAINING ALL NECESSARY APPLICATIONS AND APPROVALS.

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5. ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

6. BOULDERS GREATER THAN 3 FEET IN DIAMETER EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.

7. ALL WALLS SHOWN ARE TO BE PLACED ALONG PROPERTY LINE. WALLS ARE SHOWN OFFSET FOR VISUAL PURPOSE ONLY.

N

50 25 0 50

1" = 50'

LEGEND

(91.62)	FUTURE SPOT ELEVATION
• 91.62	PROPOSED SPOT ELEVATION
× 92.46	EXISTING SPOT ELEVATION (GRND & TC)
	EXISTING CURB & GUTTER
	PROPOSED MOUNTABLE CURB & GUTTER
	PROPOSED STANDARD CURB & GUTTER
5470	EXISTING CONTOUR W/ INDEX ELEVATION
	FLOW ARROW
	PROPOSED RETAINING WALL (TO BE BUILT BY HOMEOWNER)
	PROPOSED GARDEN WALL, CONCRETE FILLED TO 1-FOOT DEPTH
	PROPOSED SLOPE
	PROPOSED STORM DRAIN
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN INLET
	PROPOSED CATTLE GUARD INLET
	WALL DRAIN PER DETAIL SHEET 3
	GRADING PHASE BOUNDARY
	HIGH POINT
	TEMPORARY BERM

AS-BUILT INFORMATION

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

MICROFILM INFORMATION

RECORDED BY: DATE
NO.

BENCH MARKS

ACS BRASS TABLET STAMPED "7-C10"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 1,499,200.29 Y = 1,521,838.43
GROUND-TO-GRID FACTOR = 0.999667290
Δα = -00°16'20"
NAVD 1988 ELEVATION = 5425.21

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

NEW MEXICO 14831 REGISTERED PROFESSIONAL ENGINEER 8/31/11

No.	Date	REMARKS	BY
1	8/31/11	REVISE TEMPE & LOTS, STORM DRAIN INLETS	SJS

REVISIONS

DESIGN

Designed By: SJS DATE:
Drawn By: DTH DATE:
Checked By: SJS DATE:

Bohannan Huston

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TIERRA VISTA UNIT 2 at the TRAILS
GRADING AND DRAINAGE PLAN

RECEIVED
SEP 2011
HYDROLOGY SECTION

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	CDB No.	Mo./Day/Yr.

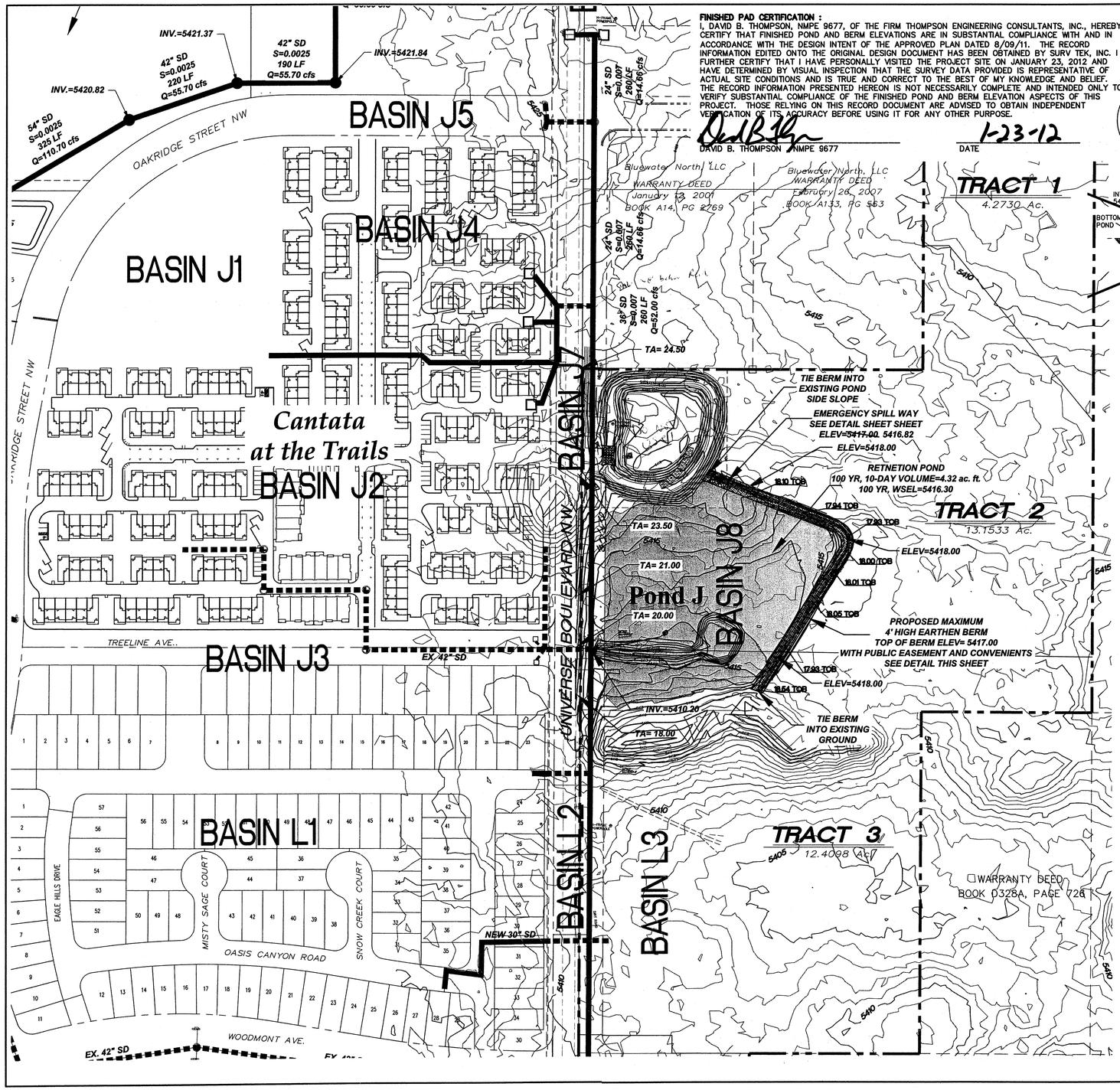
City Project No.	Zone Map No.	Sheet	Of
X	C-09-Z	2	3

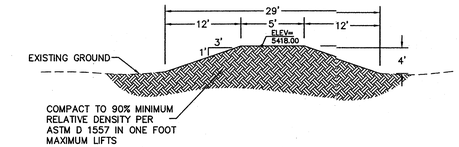
P:\20110369\CDP\Plans\General\Unit 2\20110369_GP01_U2.dwg
September 01, 2011 - 3:48pm

FINISHED PAD CERTIFICATION :
I, DAVID B. THOMPSON, NMPE 9677, OF THE FIRM THOMPSON ENGINEERING CONSULTANTS, INC., HEREBY CERTIFY THAT FINISHED POND AND BERM ELEVATIONS ARE IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 8/09/11. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY SURV TEK, INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON JANUARY 23, 2012 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. THE RECORD INFORMATION PRESENTED HEREON IS NOT NECESSARILY COMPLETE AND INTENDED ONLY TO VERIFY SUBSTANTIAL COMPLIANCE OF THE FINISHED POND AND BERM ELEVATION 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.

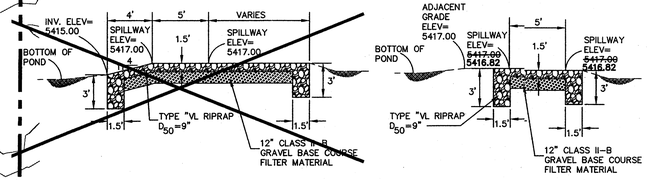
DAVID B. THOMPSON NMPE 9677 — DATE 1-23-12

DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER

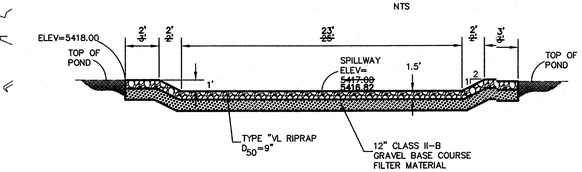




EARTHEN BERM DETAIL
NTS



EMERGENCY SPILLWAY SECTION
NTS



PERCENT LAND TREATMENT

BASIN	A	B	C	D
J2	0	12.5	10.5	75
J3	0	19	19	62
J7	0	5	5	90
J8	0	70	30	0

CANTATA 10 DAY VOLUME CALCS

BASIN	AREA	XD	AREA D	V_{360}	$V_{10\ day}$	$Q_{6\ hr}$
J2	10.92 ac.	75	8.19 ac.	1.522 ac-ft	2.53	41.81 cfs
J3	3.71 ac.	62	2.30 ac.	0.471 ac-ft	0.75	13.31 cfs
J7	2.84 ac.	90	2.55 ac.	0.437 ac-ft	0.75	11.70 cfs
J8	5.70 ac.	0	0 ac.	0.291 ac-ft	0.351	12.77 cfs
				TOTAL $V_{10\ day}$	=4.38	ac-ft

VOLUME REQUIRED = 4.38 ac.-ft.
VOLUME PRVIDED = ~~5.32~~ 8.90 ac.-ft.

J4 1.08 ac ft
J1 0.6

GRADING AND DRAINAGE CERTIFICATION WILL INCLUDE POND VOLUME CERTIFICATION BY A P.E. TO THE REQUIRED POND VOLUME

LEGEND

- EXISTING STORM DRAIN
- PROPOSED STORM DRAIN
- PROPOSED BASIN BOUNDARY
- PROPOSED DRAINAGE BOUNDARY
- TA — TOP OF ASPHALT
- TOB — TOP OF BERM ELEVATION

RECEIVED JAN 23 2012 HYDROLOGY SECTION

Thompson Engineering Consultants, Inc.
P.O. BOX 55760 ALBUQUERQUE, NM 87193
tecnm@yahoo.com
PHONE: (505) 271-2199
FAX: (505) 830-9246

N

100' 50' 0 100' 200'
SCALE: 100'

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
WORK STAKED ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICROFILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
ACS BRASS TABLET STAMPED "2-B10 1986"
Geographic Position (NAD 1927)
N.M. State Plane Coordinates (Central Zone)
X= 357,543.73 Y= 1,527,973.48
Ground-to-Grid Factor = 0.99966354
$\Delta\alpha$ = -00°16'30"
SLD 1929 ELEVATION = 5429.35

SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL — DAVID B. THOMPSON NEW MEXICO 9677 LICENSED PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: DATE:
Drawn By: DATE:
Checked By: DATE:

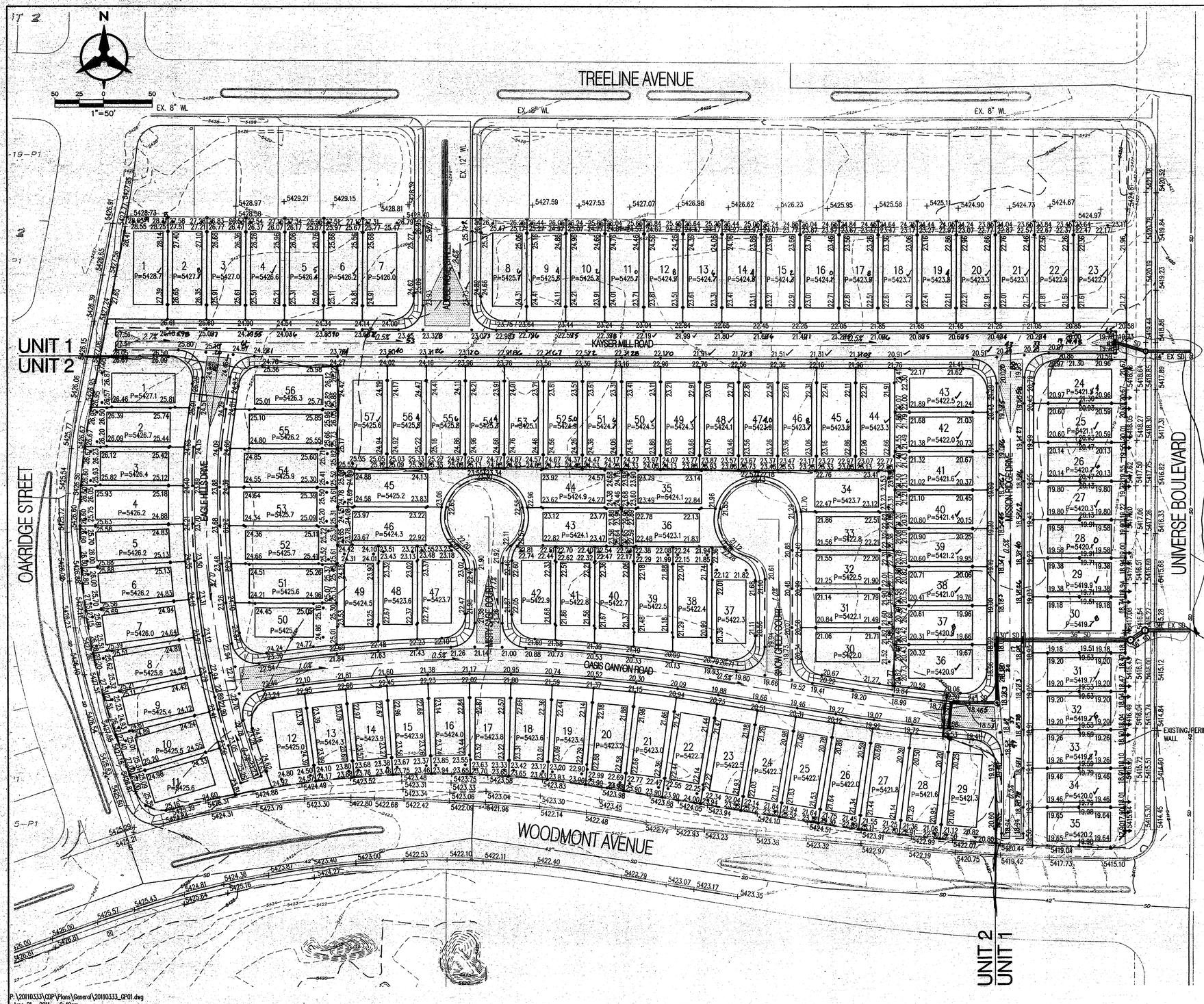
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

CANTATA AT THE TRAILS
POND J GRADING PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
730078	C-9	13	14

\projects\Longford Trails DMP\CANTATA-POND-CERT.dwg, 1/23/2012 1:10:05 PM



P:\20110333\CDP\Plans\General\20110333_GP01.dwg
June 21, 2011 – 9:49am

GENERAL NOTES

1. CONTRACTOR MUST OBTAIN A TOPSOIL DISTURBANCE PERMIT FROM THE ENVIRONMENTAL HEALTH DIVISION PRIOR TO CONSTRUCTION.

2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT BY WESTERN TECHNOLOGIES, DATED XX-XX-XX.

3. THE CONTRACTOR SHALL CONFORM TO ALL CITY, COUNTY, STATE, AND FEDERAL DUST CONTROL MEASURES & 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, SHEET 3B, AND WETTING THE SOIL TO KEEP IT FROM BLOWING.

5. ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

6. BOULDERS GREATER THAN 3 FEET IN DIAMETER EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.

7. ALL WALLS SHOWN ARE TO BE PLACED ALONG PROPERTY LINE. WALLS ARE SHOWN OFFSET FOR VISUAL PURPOSE ONLY.

NOTE: UNITS 1 & 2 TO BE GRADED AT THE SAME TIME

GRADING AND DRAINAGE CERTIFICATION

I, SCOTT J. STEFFEN, NMPE 14664, OF THE FIRM BOHANNAN HUSTON, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED GRADING AND DRAINAGE PLAN DATED 06/21/11. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN PROVIDED BY RUSS HUGG, NMPS 9750, OF SURVTEK INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 8/09/12 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE DATA PROVIDED IS REPRESENTATIVE OF ACUTAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THIS CERTIFICATION COVERS TAOS UNIT 1 AT THE TRAILS.

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

SCOTT J. STEFFEN, NMPE 14664 — DATE 8/13/12

SCOTT J STEFFEN NEW MEXICO 14664 REGISTERED PROFESSIONAL ENGINEER

LEGEND

- (91.62) FUTURE SPOT ELEVATION
- • 91.62 PROPOSED SPOT ELEVATION
- × 92.46 EXISTING SPOT ELEVATION (GRND & TC)
- EXISTING CURB & GUTTER
- PROPOSED MOUNTABLE CURB & GUTTER
- PROPOSED STANDARD CURB & GUTTER
- 5470 EXISTING CONTOUR W/ INDEX ELEVATION
- FLOW ARROW
- PROPOSED RETAINING WALL
- PROPOSED GARDEN WALL,
- PROPOSED SLOPE
- PROPOSED STORM DRAIN
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- WALL DRAIN PER DETAIL SHEET 2
- HIGH POINT

AS-BUILT INFORMATION

		DATE
CONTRACTOR STAKED BY		
INSPECTOR'S FIELD VERIFICATION BY		
AS-BUILTS CORRECTED BY		
MICROFILM INFORMATION		
RECORDED BY		DATE
NO.		

BENCH MARKS

ACS BRASS TABLET STAMPED "7-C10"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 1,499,200.29 Y = 1,521,836.43
GROUND-TO-GRID FACTOR = 0.999667290
$\Delta\alpha$ = -00°16'20"
NAVD 1988 ELEVATION = 5425.21

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

SCOTT J STEFFEN NEW MEXICO 14664 REGISTERED PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: SJS DATE: 5/25/11
Drawn By: DTH DATE: 5/25/11
Checked By: SJS DATE: 5/25/11

Bohannan ▲ Huston

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

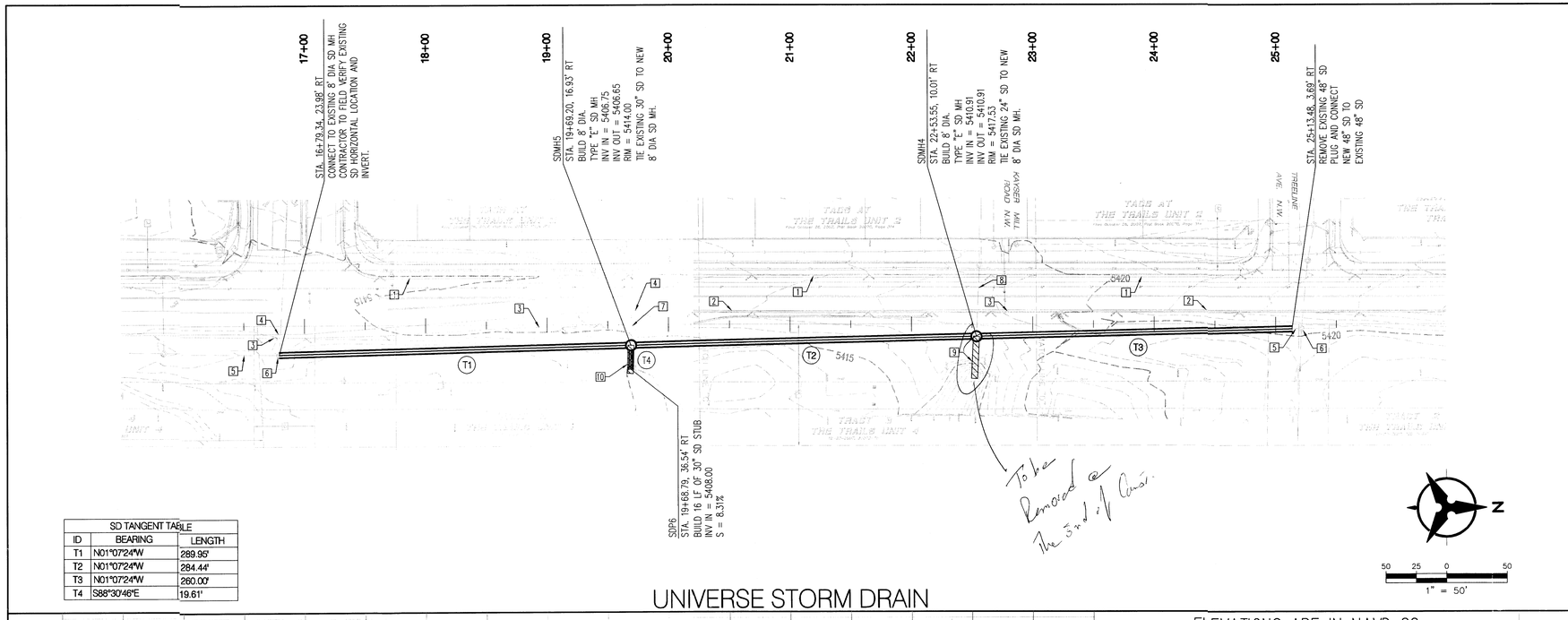
TAOS UNITS 1 & 2 at the TRAILS
GRADING AND DRAINAGE PLAN

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
XXXXXX	C-09	1	2

C-09/001C

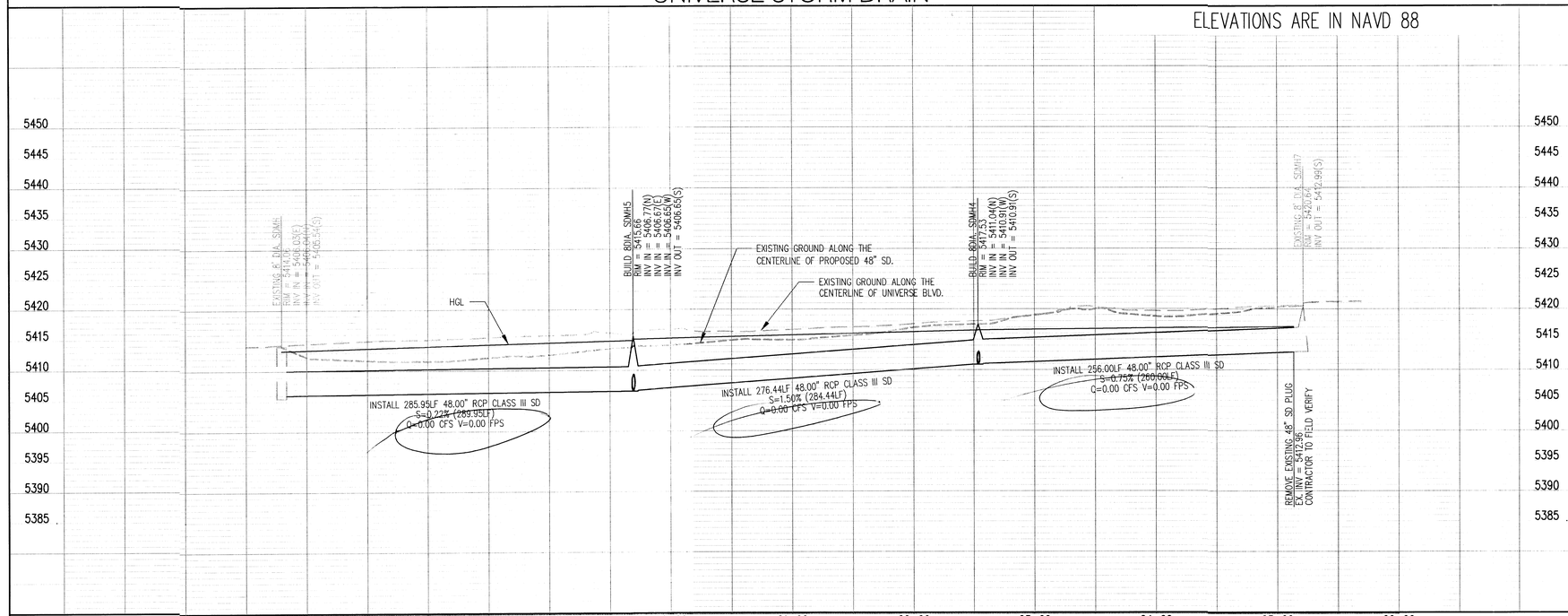
RECEIVED AUG 13 2012



SD TANGENT TABLE		
ID	BEARING	LENGTH
T1	N01°07'24"W	289.95'
T2	N01°07'24"W	284.44'
T3	N01°07'24"W	260.00'
T4	S88°30'46"E	19.61'

UNIVERSE STORM DRAIN

ELEVATIONS ARE IN NAVD 88



SCALE: 1" = 50' (HORIZ.)
1" = 10' (VERT.)

P:\20140071\CDP\Plans\PNP\UPNP01.dwg
June 11, 2013 - 10:00am

GENERAL NOTES

1. THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITY LOCATIONS AND NOTIFY THE ENGINEER IMMEDIATELY OF ANY DISCREPANCIES. CONTRACTOR SHALL COORDINATE RELOCATION OF UTILITY LINES WITH UTILITY COMPANIES AS REQUIRED.
2. ALL CURVE DATA AND DIMENSIONS ARE CALCULATED FROM CENTERLINE OF PIPE OR MANHOLE. ALL SAS & SD SLOPES ARE CALCULATED TO TRUE PIPE DIMENSIONS FROM INVERT TO INVERT. (PAY ITEMS ARE SHOWN IN PARENTHESES)
3. GRADE ELEVATIONS, WHERE NOTED, ARE FOR FLOWLINE OF STANDARD CURB UNLESS OTHERWISE SPECIFIED.
4. CONTRACTOR IS RESPONSIBLE FOR REPAIR AND/OR REPLACEMENT OF ALL DAMAGED EXISTING UTILITY CONDUITS AND EXISTING LINES.
5. CONTRACTOR SHALL PARK EQUIPMENT AND VEHICLES AS NOT TO INTERFERE WITH NORMAL ACTIVITIES OF RESIDENTS OR OTHER CONTRACTORS ON SITE.
6. ANY DAMAGE TO THE EXISTING FACILITIES (CURB & GUTTER, PAVEMENT, LANDSCAPING, ETC.) DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTORS' EXPENSE.
7. MH RIMS & CATCH BASIN INLET ELEVATIONS, FIRE HYDRANT & FLANGE ELEVATIONS ARE APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY AND ADJUST TO FINAL PAVEMENT OR SURFACE GRADES.
8. STORM DRAIN STATIONING FOLLOWS CL OF STORM DRAIN UNLESS OTHERWISE NOTED.
9. STATIONING OF DROP INLET IS TO MIDDLE OF DOWN HILL GRATE AT FACE OF CURB.
10. FLOWLINE ELEVATIONS FOR DROP INLETS ARE PROJECTED FROM FLOWLINE OF STANDARD CURB TO MIDDLE OF DOWNHILL GRATE.
11. ALL WATERLINE FITTINGS, VALVES, BENDS, TEES, CROSSES AND APPURTENANCES SHALL USE RESTRAINED JOINTS UNLESS OTHERWISE NOTED ON THE PLANS.
12. AT UTILITY CROSSING WHERE LESS THAN 1 FOOT OF COVER OVER STORM DRAIN PIPE IS PRESENT LEAN FILL IS TO BE USED FOR A DISTANCE OF 5 FEET ON EACH SIDE OF THE SD ℄ FROM TOP OF STORM DRAIN TO BOTTOM OF SANITARY SEWER OR WATER LINE.
13. RCP SHALL BE INSTALLED SO THAT THE JOINT GAP AT THE HOME POSITION SHALL CONFORM TO THE APPROVED MANUFACTURER'S RECOMMENDATIONS. MANUFACTURER'S RECOMMENDED JOINT GAP TOLERANCES FOR EACH PIPE SIZE AND TYPE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO PLACEMENT OF PIPE. RCP JOINTS SHALL NOT BE GROUTED UNLESS DIRECTED BY THE ENGINEER AFTER CITY APPROVAL.
14. ALL EXCAVATION, TRENCHING AND SHORING ACTIVITIES MUST BE CARRIED-OUT IN ACCORDANCE WITH OSHA 29 CFR 1926.650 SUBPART P.

KEYED NOTES

1. EXISTING CURB & GUTTER
2. EXISTING MEDIAN CURB & GUTTER
3. EXISTING EDGE OF ASPHALT
4. EXISTING EXTRUDED ASPHALT CURB
5. EXISTING 48" STORM DRAIN
6. EXISTING 8' DIA. STORM DRAIN MH.
7. EXISTING 30" STORM DRAIN
8. EXISTING 24" STORM DRAIN
9. REMOVE AND DISPOSE OF 30 LF EXISTING 24" STORM DRAIN.
10. REMOVE AND DISPOSE OF 20 LF EXISTING 30" STORM DRAIN.

NOTES:

1. ALL SHOULDER WORK, CLEAR ZONE & SIDE SLOPE CRITERIA ROADSIDE DESIGN CRITERIA DURING WORK & NON WORK HOURS
2. CONTRACTOR TO COORDINATE WITH THE CITY OF ALBUQUERQUE CONSTRUCTION COORDINATION ENGINEER (924-3400) PRIOR TO THE PRE-CONSTRUCTION MEETING.
3. CONTRACTOR TO COORDINATE WITH SAD 228 CITY OF ALBUQUERQUE PM MANH TRAN (168.2791) PRIOR TO START OF CONSTRUCTION.

Bohannan Huston
www.bhinc.com 800.877.5332

AS-BUILT INFORMATION

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

MICRO-FILM INFORMATION

RECORDED BY	DATE
NO.	

BENCH MARKS

ACS BRASS TABLET STAMPED "7-C10"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 1,499,200.29 Y = 1,521,838.43
GROUND-TO-GRID FACTOR = 0.999667290
$\Delta\alpha$ = -00°16'20"
NAVD 1988 ELEVATION = 5425.21

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

No.	Date	REMARKS	By
		REVISIONS	

DESIGN

Designed By:	SJS	DATE: 06/2013
Drawn By:	DH	DATE: 06/2013
Checked By:	SJS	DATE: 06/2013

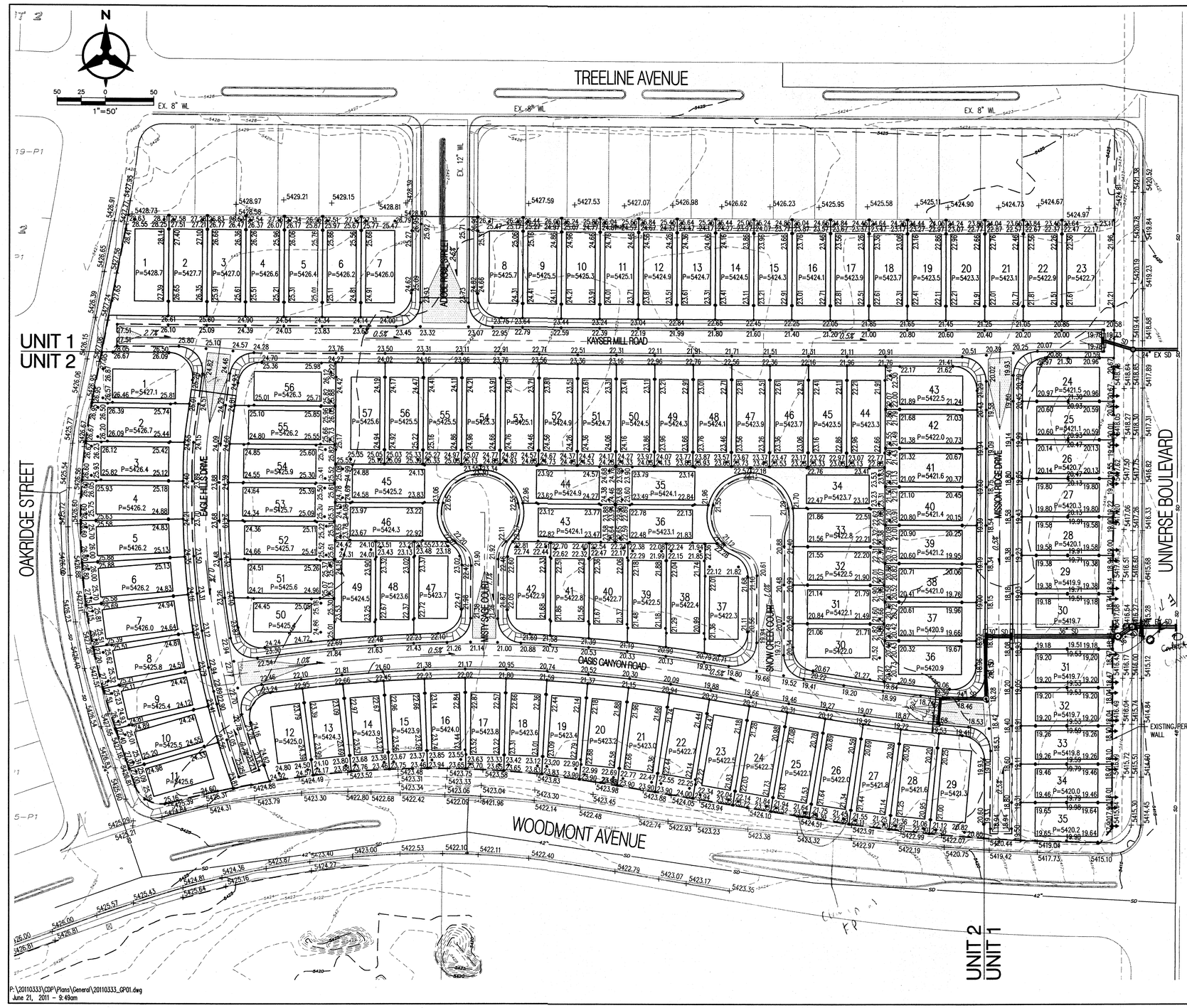
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TAOS UNIT 2 at the TRAILS UNIT 2
UTILITY PLAN AND PROFILE
UNIVERSE STORM DRAIN

Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr.

RECEIVED JUN 11 2013 LAND DEVELOPMENT SECTION

City Project No.	Grid No.	Map No.	Sheet	Of
730076		C-09-Z	X	X



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2. THE CONTRACTOR IS TO REFER TO EARTHWORK SPECIFICATION AS NOTED IN THE SOILS REPORT BY WESTERN TECHNOLOGIES, DATED XX-XX-XX.

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5. ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

6. BOULDERS GREATER THAN 3 FEET IN DIAMETER EXCAVATED DURING GRADING ACTIVITIES SHALL BE STOCKPILED AND DISPOSED OF AT THE DISCRETION OF THE OWNER.

7. ALL WALLS SHOWN ARE TO BE PLACED ALONG PROPERTY LINE. WALLS ARE SHOWN OFFSET FOR VISUAL PURPOSE ONLY.

8. ALL LOTS ADJACENT TO UNIVERSITY SHALL DRAIN TO THE ALLEY AS PER GRADES SHOWN ON GRADING PLAN. ROOF DRAINAGE SHALL BE GUTTERED TO PREVENT THESE FLOWS FROM ENTERING UNIVERSITY BLVD.

NOTE: UNITS 1 & 2 TO BE GRADED AT THE SAME TIME

LEGEND

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- 91.62 PROPOSED SPOT ELEVATION
- × 92.46 EXISTING SPOT ELEVATION (GRND & TC)
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- PROPOSED GARDEN WALL
- PROPOSED SLOPE
- PROPOSED STORM DRAIN
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- WALL DRAIN PER DETAIL SHEET 2
- HIGH POINT

Bohannan ▲ Huston

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TAOS UNITS 1 & 2 at the TRAILS
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
XXXXXX	C-09	1	2

AS-BUILT INFORMATION

	DATE
CONTRACTOR	
PLANS PREPARED BY	
INSPECTOR'S AS-BUILTING BY	
FIELD VERIFICATION BY	
DRAWINGS CORRECTED BY	
MICROFILM INFORMATION	
RECORDED BY	
NO.	

BENCH MARKS

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SURVEY INFORMATION

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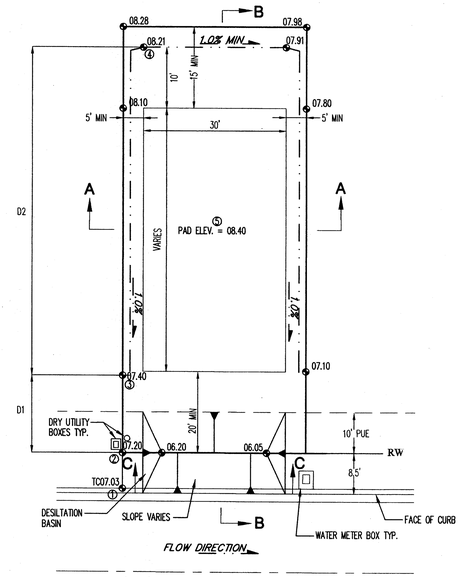
NO.	BY	DATE

ENGINEER'S SEAL

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: SJS DATE:5/25/11
Drawn By: DTH DATE:5/25/11
Checked By: SJS DATE:5/25/11

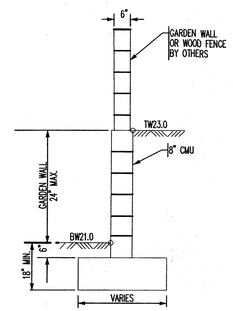


TYPICAL LOT GRADE DETAIL WITH DESILTATION BASIN FOR SEDIMENTATION CONTROL

NOT TO SCALE

TO SET SPOT② - ADD 0.17' TO SPOT①
TO SET SPOT③ - MULTIPLY D1 BY 1.0% AND ADD TO SPOT②
TO SET SPOT④ - MULTIPLY D2 BY 1.0% AND ADD TO SPOT③
TO SET SPOT⑤ - ADD 0.2' TO SPOT④

BOTTOM OF BASIN IS 1' BELOW PROPERTY LINE ELEVATION.
SEE GRADING PLANS FOR EXACT ELEVATIONS.
CONTRACTOR SHALL CONSTRUCT TEMPORARY DESILTATION BASIN AT EACH LOT.

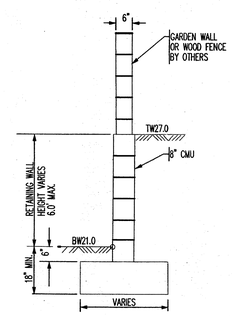


TW=FINISHED GRADE ELEVATION AT TOP OF RETAINING WALL
BW=FINISHED GRADE ELEVATION AT BOTTOM OF RETAINING WALL

TYPICAL GARDEN WALL NOMENCLATURE

NOT TO SCALE

(RETAINING HEIGHT IS TAKEN TO BE DIFFERENCE IN FINISHED GRADES ON LEFT AND RIGHT SIDE OF WALL.)



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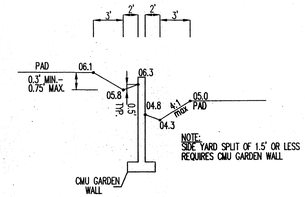
TYPICAL RETAINING WALL NOMENCLATURE

NOT TO SCALE

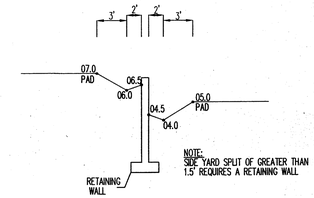
(RETAINING HEIGHT IS TAKEN TO BE DIFFERENCE IN FINISHED GRADES ON LEFT AND RIGHT SIDE OF WALL.)



NOTE:
SIDE YARD SPLIT OF 1.5' OR LESS REQUIRES CMU GARDEN WALL

SIDE YARD GARDEN WALL DETAIL

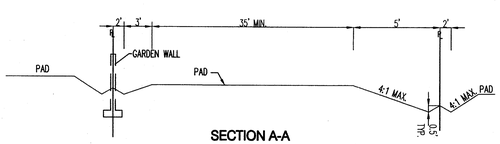
NOT TO SCALE



NOTE:
SIDE YARD SPLIT OF GREATER THAN 1.5' REQUIRES A RETAINING WALL

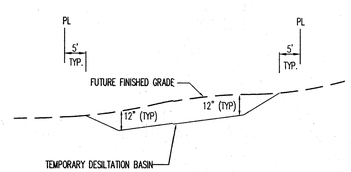
SIDE YARD RETAINING WALL DETAIL

NOT TO SCALE



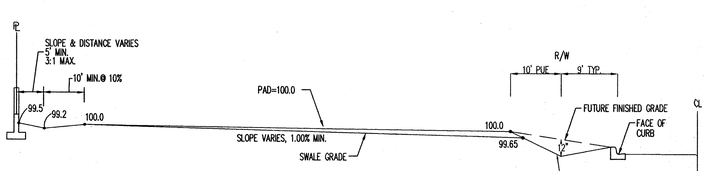
SECTION A-A
TYPICAL SIDE YARD SWALE

NOT TO SCALE



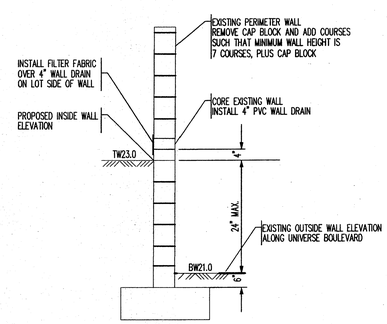
SECTION C-C

NOT TO SCALE



SECTION B-B

NOT TO SCALE



WALL DRAIN DETAIL

NOT TO SCALE

NOTE:

1. CONTRACTOR IS TO MASS GRADE ROADS TO 2' BEYOND FUTURE CURB. EXCESS FROM DRY UTILITY TRENCH IS TO BE USED TO BACK FILL BEHIND CURB.

2. FRONT YARDS ARE TO BE GRADED AS SHOWN ON THIS DETAIL FOR FINAL GRADING AND CERTIFICATION THIS DETAIL TO BE COORDINATED WITH.

3. HOME BUILDER TO BRING FRONT YARD TO ULTIMATE FRONT YARD GRADES AFTER HOME CONSTRUCTION IS COMPLETED. SEE ULTIMATE FRONT YARD GRADING DETAIL ON THIS SHEET.

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June 21, 2011 – 7:48am

AS-BUILT INFORMATION
CONTRACTOR — DATE
WORK STAKED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE

MICROFILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS
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SURVEY INFORMATION
FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL
STATE OF NEW MEXICO 14668 PROFESSIONAL ENGINEER
SCOTT A. SANDOVAL
05/21/11

No.	Date	REMARKS	By

REVISIONS
DESIGN
Designed By: SJS — DATE: 05/2011
Drawn By: RJC — DATE: 05/2011
Checked By: SJS — DATE: 05/2011

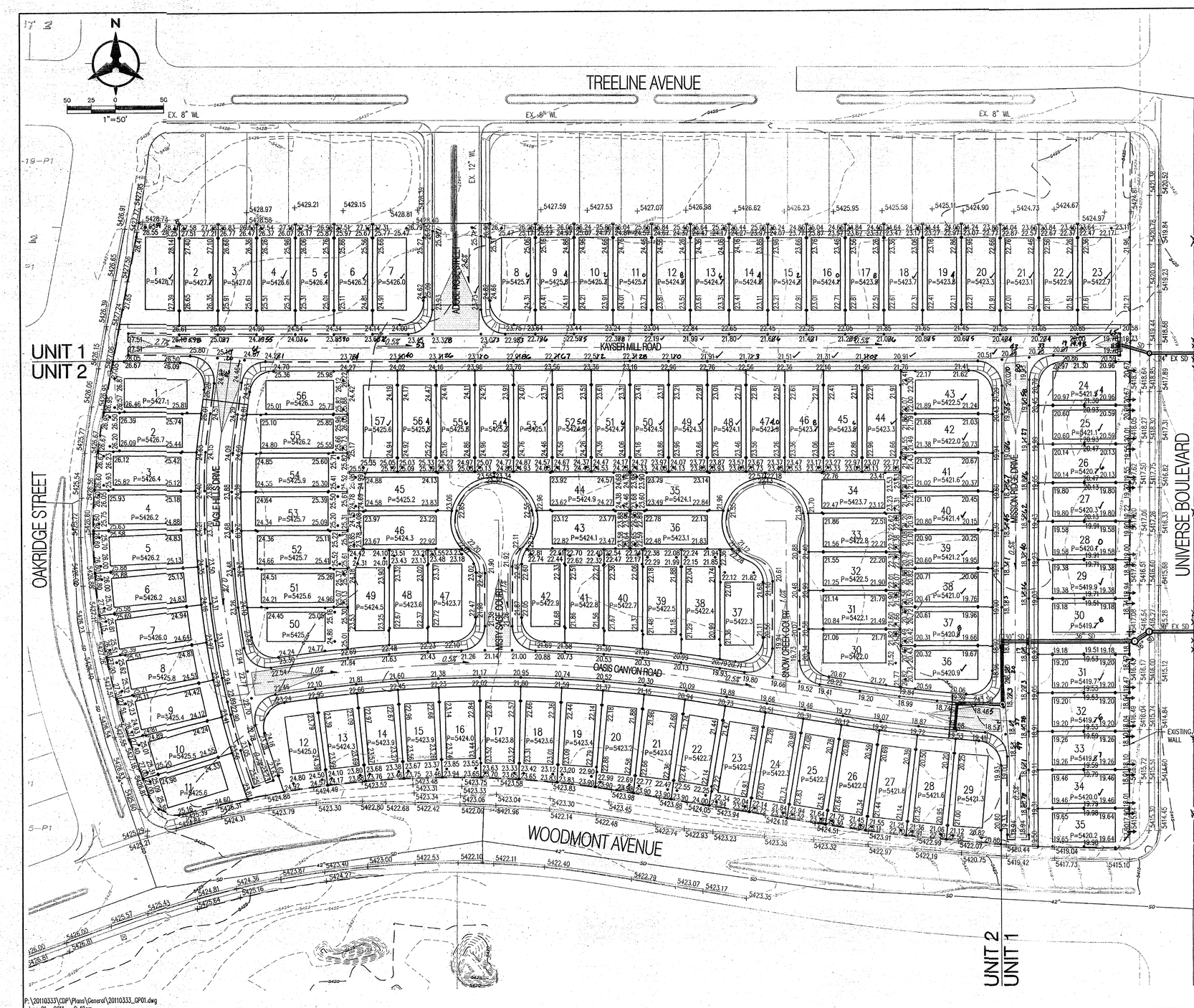
Bohannan ▲ Huston

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TAOS UNITS 1 & 2 at the TRAILS
GRADING AND DRAINAGE DETAILS

Design Review Committee	City Engineer Approval	Last Design Update	Mo./Day/Yr.	Mo./Day/Yr.

City Project No.	Zone Map No.	Sheet	Of
XXXXXX	C-09	2	2



NOTE: UNITS 1 & 2 TO BE GRADED AT THE SAME TIME

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5. ALL SPOT ELEVATIONS ARE TO FLOWLINE UNLESS OTHERWISE NOTED.

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7. ALL WALLS SHOWN ARE TO BE PLACED ALONG PROPERTY LINE. WALLS ARE SHOWN OFFSET FOR VISUAL PURPOSE ONLY.

GRADING AND DRAINAGE CERTIFICATION

I, SCOTT J. STEFFEN, NMPE 14664, OF THE FIRM BOHANNAN HUSTON, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED GRADING AND DRAINAGE PLAN DATED 06/21/11. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN PROVIDED BY RUSS HUGG, NMPS 9750, OF SURVTEK INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 8/09/12 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE DATA PROVIDED IS REPRESENTATIVE OF ACUTAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THIS CERTIFICATION COVERS TAOS UNIT 1 AT THE TRAILS.

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

SCOTT J. STEFFEN, NMPE 14664 — DATE 8/21/12

SCOTT J. STEFFEN — NEW MEXICO — 14664 — REGISTERED PROFESSIONAL ENGINEER

LEGEND

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AS-BUILT INFORMATION

		DATE
CONTRACTOR		
RCBD BY		DATE
INSPECTOR'S ACCEPTANCE BY		DATE
CERTIFICATION BY		DATE
CORRECTED BY		DATE

MICROFILM INFORMATION

RECORDED BY: DATE

NO.

BENCH MARKS

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SCOTT J. STEFFEN — NEW MEXICO — 14664 — REGISTERED PROFESSIONAL ENGINEER — 8/21/12

No.	Date	REMARKS	By
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Designed By: SJS DATE:5/25/11
Drawn By: DTH DATE:5/25/11
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Bohannan Huston

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

TAOS UNITS 1 & 2 at the TRAILS
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
XXXXXX	C-09	1	2

AUG 13 2012

W.O. #

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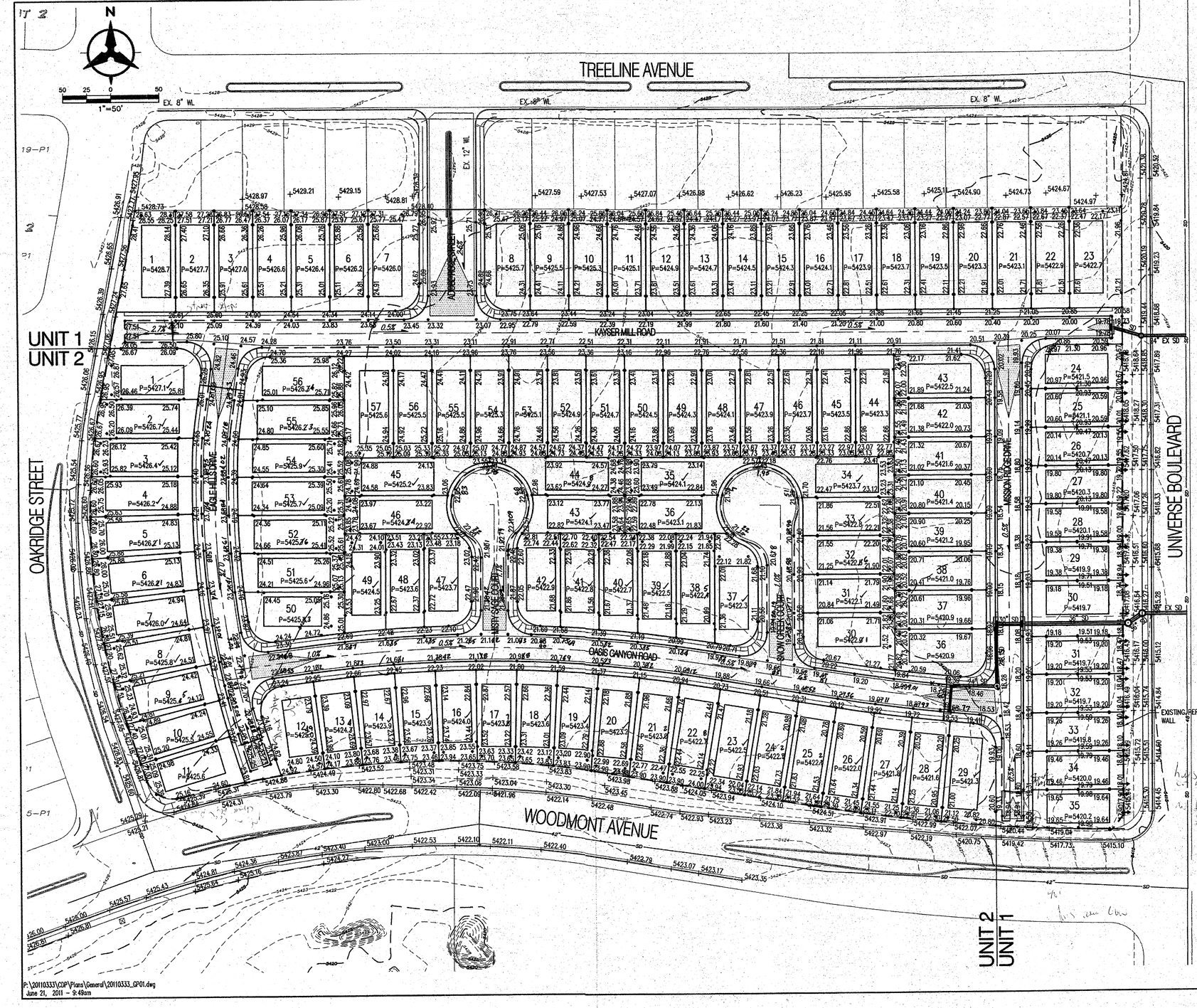
June 21, 2011 – 9:49am



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NOTE: UNITS 1 & 2 TO BE GRADED AT THE SAME TIME

GRADING AND DRAINAGE CERTIFICATION

I, SCOTT J. STEFFEN, NMPE 14664, OF THE FIRM BOHANNAN HUSTON, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED GRADING AND DRAINAGE PLAN DATED 06/21/11. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN PROVIDED BY RUSS HUGG, NMPS 9750, OF SURVTEK INC. I FURTHER CERTIFY THAT I HAVE PERSONALLY VISITED THE PROJECT SITE ON 2/13/14 AND HAVE DETERMINED BY VISUAL INSPECTION THAT THE DATA PROVIDED IS REPRESENTATIVE OF ACUTAL SITE CONDITIONS AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

THIS CERTIFICATION COVERS TAOS UNIT 2 AT THE TRAILS.

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

SCOTT J. STEFFEN NMPE 14664 — 2/13/14 DATE

SCOTT J. STEFFEN NEW MEXICO 14664 REGISTERED PROFESSIONAL ENGINEER

LEGEND

- (91.62) FUTURE SPOT ELEVATION
- 91.62 PROPOSED SPOT ELEVATION
- × 92.46 EXISTING SPOT ELEVATION (GRND & TC)
- EXISTING CURB & GUTTER
- PROPOSED MOUNTABLE CURB & GUTTER
- PROPOSED STANDARD CURB & GUTTER
- 5470 EXISTING CONTOUR W/ INDEX ELEVATION
- FLOW ARROW
- PROPOSED RETAINING WALL
- PROPOSED GARDEN WALL
- PROPOSED SLOPE
- PROPOSED STORM DRAIN
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET
- WALL DRAIN PER DETAIL SHEET 2
- HIGH POINT

Bohannan Huston

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT

RECEIVED FEB 14 2014 LAND DEVELOPMENT SECTION

TAOS UNITS 1 & 2 at the TRAILS
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
XXXXXX	C-09	1	2

AS-BUILT INFORMATION

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

MICROFILM INFORMATION

	DATE
RECORDED BY	
NO.	

BENCH MARKS

ACS BRASS TABLET STAMPED "7-C10"
GEOGRAPHIC POSITION (NAD 83)
N.M. STATE PLANE COORDINATES (CENTRAL ZONE)
X = 1,499,200.29 Y = 1,621,838.43
GROUND-TO-GRID FACTOR = 0.999667290
$\Delta\alpha$ = -00°16'20"
NAVD 1988 ELEVATION = 5425.21

SURVEY INFORMATION

FIELD NOTES

NO.	BY	DATE

ENGINEER'S SEAL

SCOTT J. STEFFEN NEW MEXICO 14664 REGISTERED PROFESSIONAL ENGINEER

No.	Date	REMARKS	By
		REVISIONS	
		DESIGN	

Designed By: SJS DATE: 5/25/11
Drawn By: DTH DATE: 5/25/11
Checked By: SJS DATE: 5/25/11