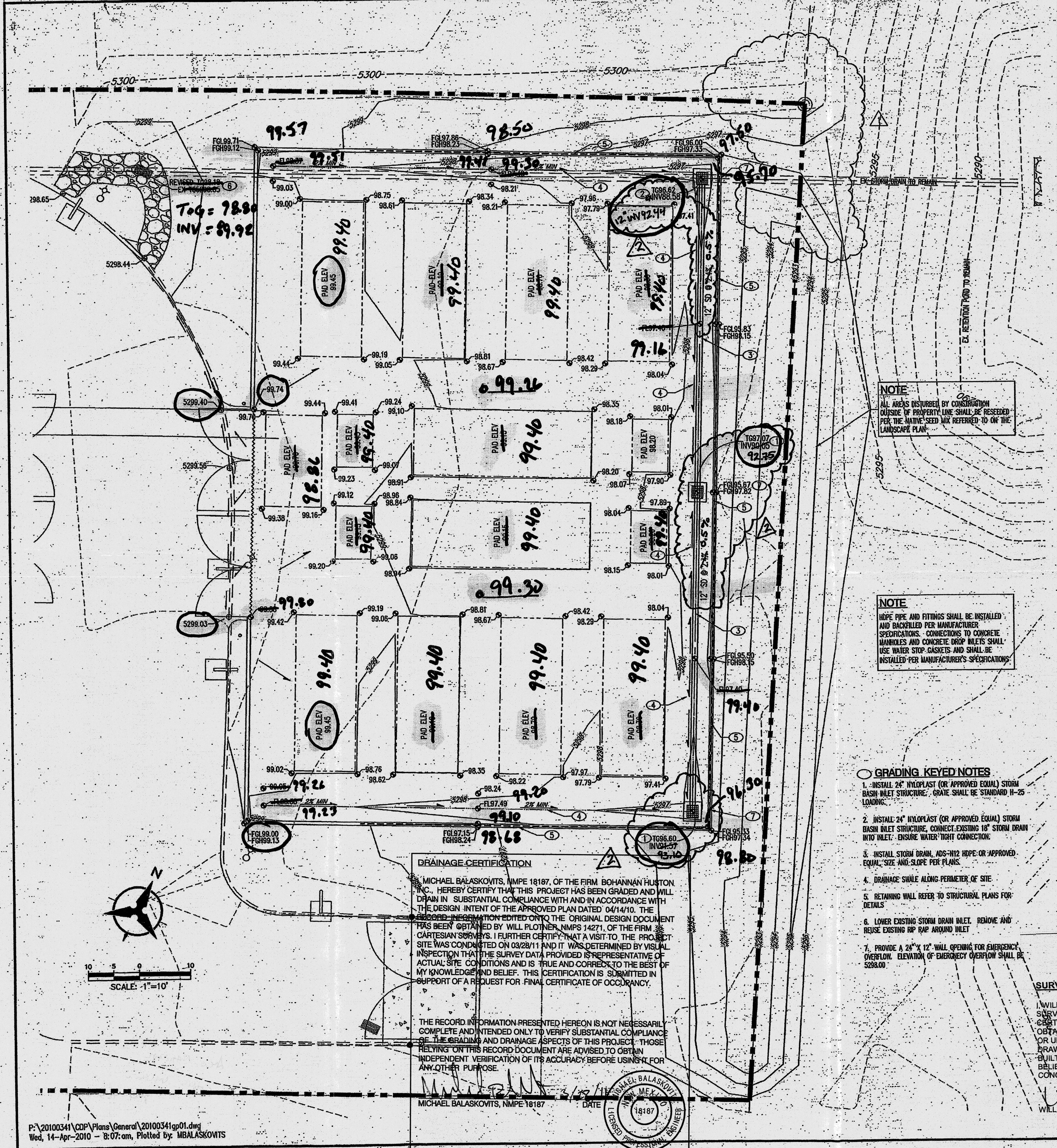
RECORD DRAWINGS



NOTE

ALL AREAS DISTURBED BY CONSTRUCTION OUTSIDE OF PROPERTY LINE SHALL BE RESEEDED PER THE NATIVE SEED MIX REFERRED TO ON THE LANDSCAPE PLAN

NOTE

HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

○ GRADING KEYED NOTES

1. INSTALL 24" NYLOPLAST (OR APPROVED EQUAL) STORM BASIN INLET STRUCTURE. GRATE SHALL BE STANDARD H–25 LOADING.
2. INSTALL 24" NYLOPLAST (OR APPROVED EQUAL) STORM BASIN INLET STRUCTURE, CONNECT EXISTING 18" STORM DRAIN INTO INLET. ENSURE WATER TIGHT CONNECTION.
3. INSTALL STORM DRAIN, ADS-N12 HDPE OR APPROVED EQUAL. SIZE AND SLOPE PER PLANS.
4. DRAINAGE SWALE ALONG PERIMETER OF SITE
5. RETAINING WALL REFER TO STRUCTURAL PLANS FOR DETAILS
6. LOWER EXISTING STORM DRAIN INLET. REMOVE AND REUSE EXISTING RIP RAP AROUND INLET
7. PROVIDE A 24" X 12" WALL OPENING FOR EMERGENCY OVERFLOW. ELEVATION OF EMERGNECY OVERFLOW SHALL BE 5298.00

DRAINAGE CERTIFICATION

2

I, MICHAEL BALASKOVITS, NMPE 18187, 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 PLAN DATED 04/14/10. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY WILL PLOTNER, NMPS 14271, OF THE FIRM CARTESIAN SURVEYS. I FURTHER CERTIFY THAT A VISIT TO THE PROJECT SITE WAS CONDUCTED ON 03/28/11 AND IT WAS 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 FINAL CERTIFICATE OF OCCUPANCY.

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.

3/28/11

MICHAEL BALASKOVITS, NMPE 18187 DATE

MICHAEL BALASKOVITS 18187

P:\20100341\CDP\Plans\General\20100341gp01.dwg
Wed, 14-Apr-2010 - 8:07:am, Plotted by: MBALASKOVITS

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.

2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).

10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

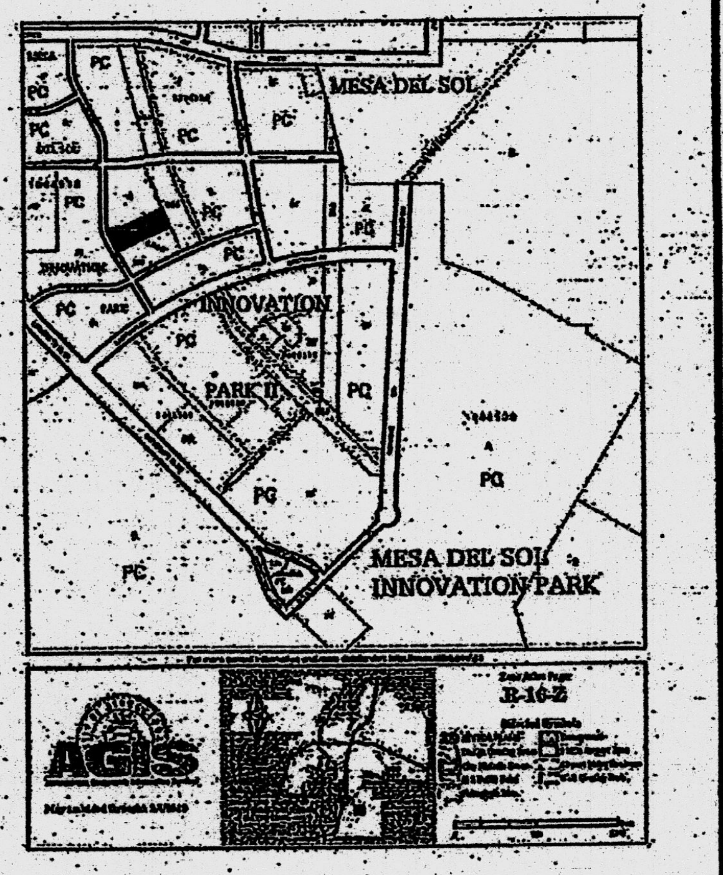
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/– 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/– 0.1' FROM BUILDING PLAN ELEVATION.

9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

11. SITE CONSTRUCTION TO MEET REQUIREMENTS OF SWPPP (STORM WATER POLLUTION PREVENTION PLAN).



LOCATION MAP

ZONE ATLAS INDEX MAP R–16
NOT TO SCALE

BENCH MARKS:

BENCHMARK #1
1_R16
N1453939.35 E1533242.614 5291.48

BENCHMARK #2
3_Q16
N1457546.798 E1534025.978 5310.42

LEGEND

▬ ▪ ▪ ▬	PROPERTY LINE
– – 5301 – –	EXISTING CONTOURS
X 5301.15	EXISTING GROUND SPOT ELEVATION
● 65.23	PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE, TG=TOP OF GRATE, TS=TOP OF SDWLK TA=TOP OF ASPHALT
S=2.0% →	PROPOSED DIRECTION OF FLOW
︿︿︿	WATER BLOCK
—5305—	PROPOSED INDEX CONTOURS
——	PROPOSED INTER CONTOURS
═══	PROPOSED RETAINING WALL
– – –	EASEMENT
—SD—	PROPOSED STORM DRAIN LINE
◎	PROPOSED STORM DRAIN MANHOLE
▣	PROPOSED STORM-DRAIN INLET

SURVEYOR'S CERTIFICATION

I, WILL PLOTNER JR, A DULY QUALIFIED, REGISTERED, PROFESSIONAL LAND SURVEYOR UNDER THE LAWS OF THE STATE OF NEW MEXICO, DO HEREBY CERTIFY THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWINGS WAS OBTAINED FROM FIELD CONSTRUCTION AND 'AS-BUILT' SURVEYS PERFORMED BY ME OR UNDER MY SUPERVISION, THAT THE 'AS-BUILT' INFORMATION SHOWN ON THESE DRAWNINGS WAS ADDED BY ME OR UNDER MY SUPERVISION, AND THAT THIS 'AS-BUILT' INFORMATION IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. CARTESIAN SURVEYS IS NOT RESPONSIBLE FOR ANY OF THE DESIGN CONCEPTS, CALCULATIONS, ENGINEERING, OR INTENT OF THE RECORD DRAWINGS.

Will Plotner

3/23/11

WILL PLOTNER JR, NMPS 14271

WILL W. PLOTNER JR. 14271

Bohannan ▲ Huston Inc.
Courtyard I · 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CONSULTING ENGINEERS

CIVIL:
BOHANNAN HUSTON
COURTYARD ONE, 7500 JEFFERSON NE
ALBUQUERQUE, NM 87109
C: MICHAEL BALASKOVITS - P-(505) 823-1000

ELECTRICAL:
POWER DESIGN, LLC
8940 STERLING RIDGE ROAD
INDIANAPOLIS, IN 46236
C: BRIAN INSKEEP - P-(317) 723-3375

STRUCTURAL:
CONSULTING ENGINEERS, CORPORATION
6860 TYLERSVILLE ROAD - SUITE 7
CINCINNATI, OH 45040
C: TRACY MITCHELL - P-(513) 229-8000

PLUMBING:
TENNILL & ASSOCIATES
177 CHESTERFIELD INDUSTRIAL BLVD.
CHESTERFIELD, MO 63005
C: DANA TENNILL - P-(636) 537-3868

MECHANICAL:
ICON MECHANICAL
1616 CLEVELAND BLVD.
GRANITE CITY, IL 62040
C: TIM SCHAEFER - P-(618) 452-0035

FIRE PROTECTION:
KAUFMAN FIRE PROTECTION
3301 GIRARD NE
ALBUQUERQUE, NM 87107
C: DON KAUFMAN - P-(505) 884-2447

CONTRACTOR

ARCO
National Construction Company, Inc.
1750 S BRENTWOOD, STE 600
ST. LOUIS, MISSOURI 63144
(P) 314-963-0715

ARCHITECT

GMA DESIGN GROUP, INC.
ARCHITECTURAL DESIGN SERVICES
A DIVISION OF ARCO NATIONAL CONSTRUCTION
1750 SOUTH BRENTWOOD
SUITE 601
ST. LOUIS, MISSOURI 63144
(P) 314-822-5181 (F) 314-965-4768
WWW.GMADESIGN.COM

DATA EQUIPMENT EXPANSION FOR:

MOLINA® HEALTHCARE
2610 TURING DRIVE SE
ALBUQUERQUE, NEW MEXICO 87106

MICHAEL BALASKOVITS 18187 4-14-10

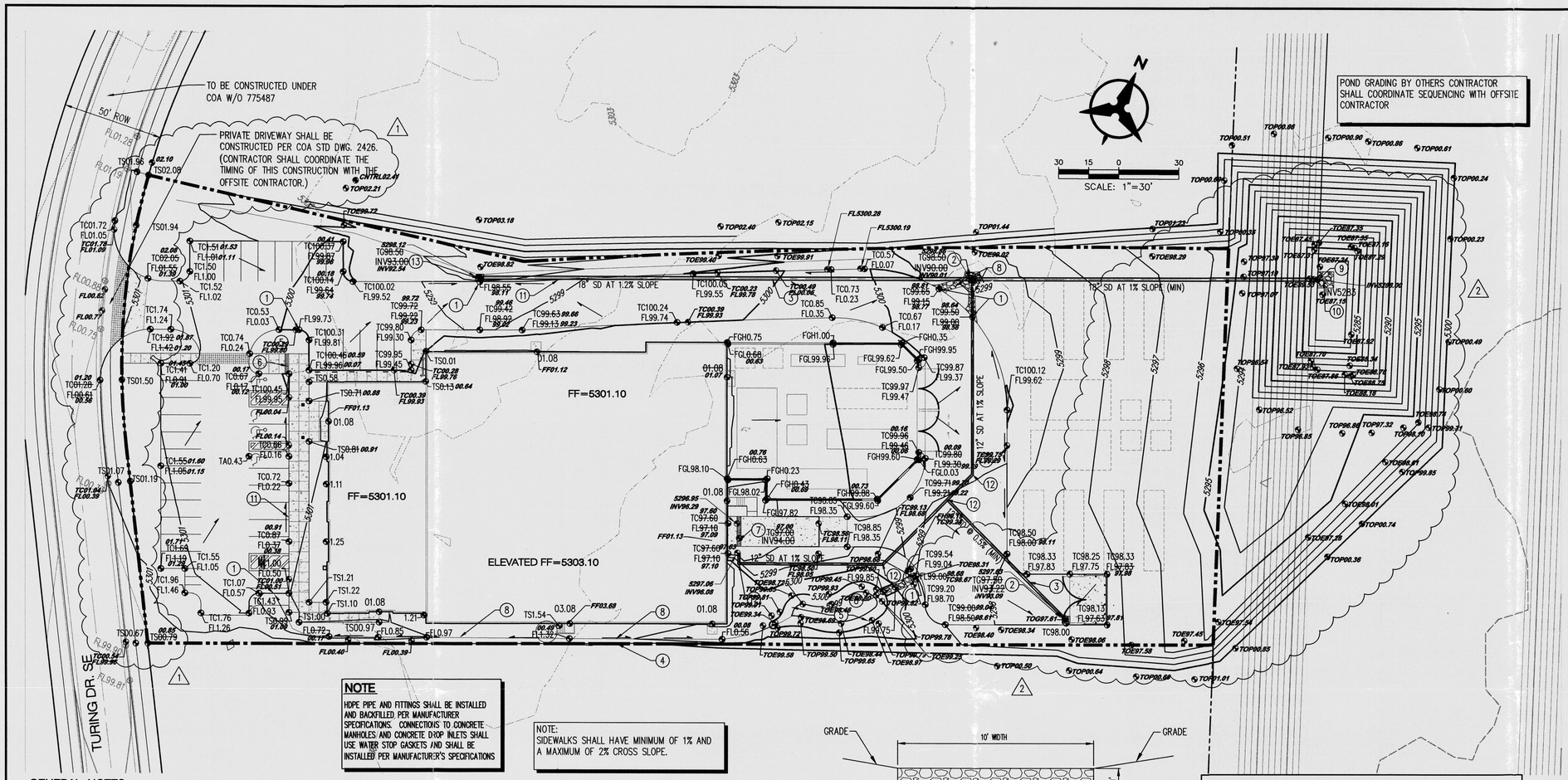
JOB NO :

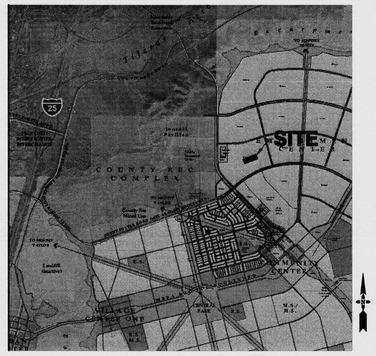
DRAWN BY :
MJB

ISSUE DATE :
02/16/10

REVISIONS △
1 04-14-2010
2 07-23-2010
3
4
5

SHEET NUMBER
C100





LOCATION MAP
ZONE ATLAS INDEX MAP R-16
NOT TO SCALE

PROJECT BENCH MARKS:

BENCHMARK #1
1_R16
N1453939.35 E1533242.614 5291.48

BENCHMARK #2
3_Q16
N1457546.798 E1534025.978 5310.42

LEGEND

- PROPERTY LINE
- 5301 — EXISTING CONTOURS
- 5301.15 — EXISTING GROUND SPOT ELEVATION
- 65.23 — PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE, TG=TOP OF GRAIE, TS=TOP OF SDWLK TA=TOP OF ASPHALT
- S=2.0% — PROPOSED DIRECTION OF FLOW
- WATER BLOCK
- 5305 — PROPOSED INDEX CONTOURS
- PROPOSED INTER CONTOURS
- PROPOSED RETAINING WALL
- EASEMENT
- SD — PROPOSED STORM DRAIN LINE
- PROPOSED STORM DRAIN MANHOLE
- PROPOSED STORM DRAIN INLET

NOTE

HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS

NOTE:
SIDEWALKS SHALL HAVE MINIMUM OF 1% AND A MAXIMUM OF 2% CROSS SLOPE.

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.

2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).

10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS.

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

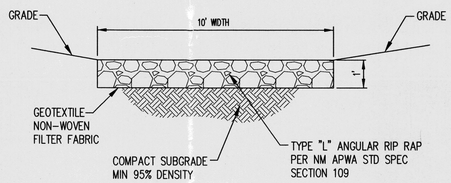
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.1' FROM BUILDING PLAN ELEVATION.

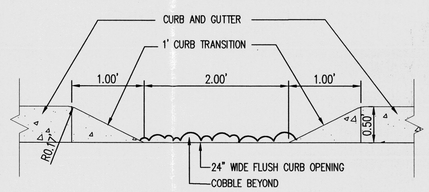
9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

11. SITE CONSTRUCTION TO MEET REQUIREMENTS OF SWPPP (STORM WATER POLUTION PREVENTION PLAN).

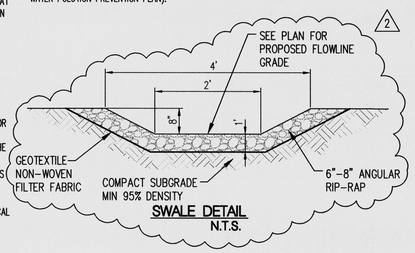


RIP RAP BLANKET DETAIL
N.T.S.

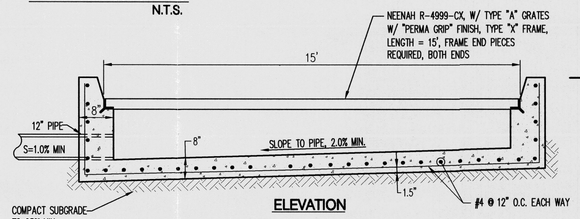


NOTE: SEE PLAN FOR CURB CUT LOCATONS.

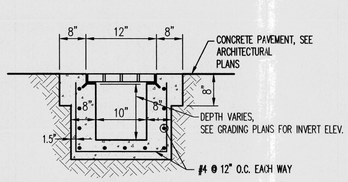
TYPICAL CURB CUT OPENING
N.T.S.



SWALE DETAIL
N.T.S.



ELEVATION



TYPICAL SECTION

TRENCH DRAIN DETAIL
N.T.S.

DRAINAGE CERTIFICATION

I, MICHAEL BALASKOVITS, NMPE 18187, 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 PLAN DATED 10/02/08. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY WILL PLOTNER, OF THE FIRM CARTESIAN SURVEYS. I FURTHER CERTIFY THAT A VISIT TO THE PROJECT SITE WAS CONDUCTED ON 05/27/09 AND IT WAS 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 PERMANENT CERTIFICATE OF OCCUPANCY.

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.

MICHAEL BALASKOVITS, NMPE 18187 DATE

MICHAEL BALASKOVITS NEW MEXICO 18187 LICENSED PROFESSIONAL ENGINEER 5-27-09

LEGEND

- FL33.20 — DESIGN GRADE
- ~~FL34.12~~ 34.09 — AS-BUILT GRADE

GRADING KEYED NOTES

1. INSTALL 24" WIDE CURB OPENING PER DETIAL THIS SHEET.
2. INSTALL 24" NYLOPLAST (OR APPROVED EQUAL) STORM BASIN INLET STRUCTURE. GRATE SHALL BE STANDARD A-25 LOADING.
3. INSTALL STORM DRAIN, ADS-N12 HDPE OR APPROVED EQUAL, SIZE PER PLANS.
4. INSTALL 1' TALL DRAINAGE CONTROL BERM WITH 3:1 SIDE SLOPES AND 1' WIDE TOP
5. WATER HARVESTING AREA
6. INSTALL 24" SIDEWALK CULVERT PER COA STD DWG 2236
7. INSTALL TRENCH DRAIN PER DETAIL THIS SHEET.
8. DRAINAGE SWALE PER DETAIL THIS SHEET.
9. INSTALL CMP END SECTION, SEE PLANS FOR SIZE.
10. INSTALL 10'X10' RIP-RAP BLANKET PER DETAIL THIS SHEET.
11. STD MEDIAN CURB AND GUTTER PER COA STD. DWG 2415B
12. INSTALL PREMANUFACTURED FITTING. SEE PLANS FOR SIZE.
13. INSTALL SINGLE GRATE TYPE 'D' INLET PER COA STD DWG. 2206.

RECEIVED
MAY 27 2009

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CONSULTING ENGINEERS

OWN: BOHANNAN HUSTON COURTYARD ONE, 7500 JEFFERSON NE ALBUQUERQUE, NEW MEXICO 87109 C: MICHAEL BALASKOVITS - P:(505) 823-1000

STRUCTURAL: CONSULTING ENGINEERS, CORPORATION 1616 CLEVELAND BLVD., SUITE 1 GRANITE CITY, IL 62040 C: TRACY MITCHELL - P:(618) 224-9000

MECHANICAL: ARCO DESIGN GROUP INC. 1616 CLEVELAND BLVD. GRANITE CITY, IL 62040 C: TIM SCHUESSLER - P:(618) 452-0035

ELECTRICAL: POWER DESIGN, LLC 8440 STERLING RIDGE ROAD ROCKVILLE, MISSOURI 63011 C: BRIAN INSKEEP- P:(317) 723-3375

PLUMBING: TENNILL & ASSOCIATES 16 CHESTERFIELD INDUSTRIAL BLVD. CHESTERFIELD, MO 63005 C: DANA TENNILL - P:(636) 537-3899

FIRE PROTECTION: SUPPLY LINE PROTECTION 3301 GIRARD NE ALBUQUERQUE, NM 87107 C: DON CARTER - P:(505) 884-2447

CONTRACTOR: ARCO DESIGN GROUP INC.
1750 SOUTH BRENTWOOD, SUITE 600 ST. LOUIS, MISSOURI 63144 (P) 314-963-0715

ARCHITECT: GMA DESIGN GROUP INC.
ARCHITECTURAL DESIGN SERVICES
A DIVISION OF ARCO NATIONAL CONSTRUCTION
1750 SOUTH BRENTWOOD BLVD SUITE 601 ST. LOUIS, MISSOURI 63144
PHONE: 314-963-0715 FAX: 314-963-0716

PROJECT HAL

LOT 12A MESA DEL SOL
ALBUQUERQUE, NEW MEXICO

MICHAEL BALASKOVITS NEW MEXICO 18187 LICENSED PROFESSIONAL ENGINEER 10-2-08

I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS & SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

JOB NO : SP5082

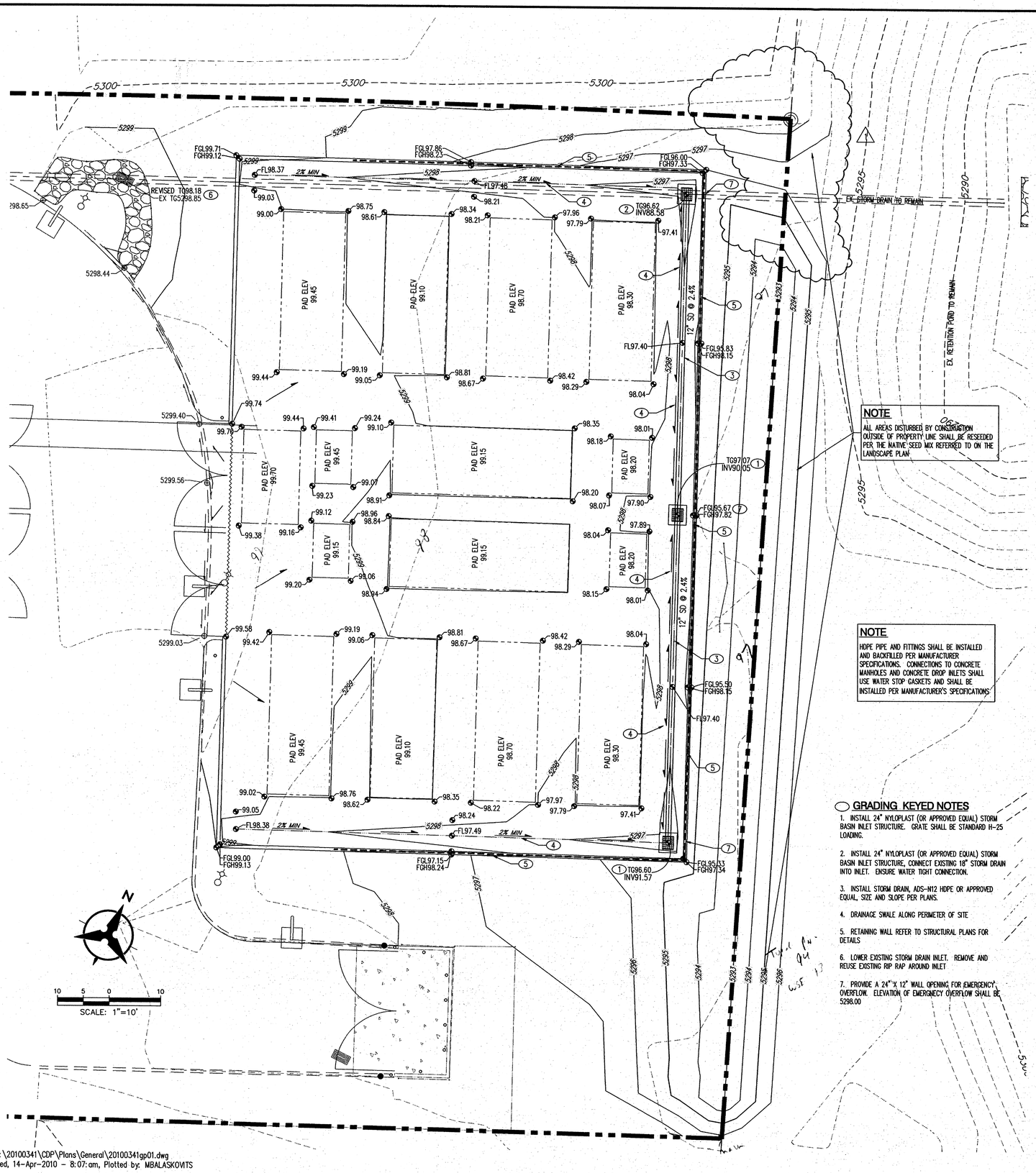
DRAWN BY :

ISSUE DATE :

REVISIONS △
1 10-2-08
2 10-16-08
3 5-15-09
4
5

SHEET NUMBER
C-1

P:\080332\cdp\general\Drainage Cert\080332GP01-DrainCert5-27-09.dwg, Layout1
May 27, 2009 - 11:08am
Plotted by: BWARREN



P:\20100341\CDP\Plans\General\20100341gp01.dwg
Wed, 14-Apr-2010 - 8:07:am, Plotted by: MBALASKOVITS

NOTE

ALL AREAS DISTURBED BY CONSTRUCTION OUTSIDE OF PROPERTY LINE SHALL BE RESEEDED PER THE NATIVE SEED MIX REFERRED TO ON THE LANDSCAPE PLAN

NOTE

HDPE PIPE AND FITTINGS SHALL BE INSTALLED AND BACKFILLED PER MANUFACTURER SPECIFICATIONS. CONNECTIONS TO CONCRETE MANHOLES AND CONCRETE DROP INLETS SHALL USE WATER STOP GASKETS AND SHALL BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.

GRADING KEYED NOTES

1. INSTALL 24" NYLOPLAST (OR APPROVED EQUAL) STORM BASIN INLET STRUCTURE. GRATE SHALL BE STANDARD H-25 LOADING.

2. INSTALL 24" NYLOPLAST (OR APPROVED EQUAL) STORM BASIN INLET STRUCTURE, CONNECT EXISTING 18" STORM DRAIN INTO INLET. ENSURE WATER TIGHT CONNECTION.

3. INSTALL STORM DRAIN, ADS-N12 HDPE OR APPROVED EQUAL, SIZE AND SLOPE PER PLANS.

4. DRAINAGE SWALE ALONG PERIMETER OF SITE

5. RETAINING WALL REFER TO STRUCTURAL PLANS FOR DETAILS

6. LOWER EXISTING STORM DRAIN INLET. REMOVE AND REUSE EXISTING RIP RAP AROUND INLET

7. PROVIDE A 24"X 12" WALL OPENING FOR EMERGENCY OVERFLOW. ELEVATION OF EMERGNECY OVERFLOW SHALL BE 5298.00

GENERAL NOTES

1. ALL WORK DETAILED ON THESE PLANS AND PERFORMED UNDER THIS CONTRACT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS AND THE PROJECT GEOTECHNICAL REPORT. WHERE APPLICABLE, CITY OF ALBUQUERQUE PUBLIC WORKS STANDARDS SHALL APPLY.

2. THE CONTRACTOR SHALL ABIDE BY ALL LOCAL, STATE, AND FEDERAL LAWS, RULES AND REGULATIONS WHICH APPLY TO THE CONSTRUCTION OF THESE IMPROVEMENTS, INCLUDING EPA REQUIREMENTS WITH RESPECT TO STORM WATER DISCHARGE.

3. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL POTENTIAL OBSTRUCTIONS INCLUDING ALL UNDERGROUND UTILITIES. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE CONSTRUCTION OBSERVER OR ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.

4. TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT LINE LOCATING SERVICE FOR LOCATION OF EXISTING UTILITIES.

5. ALL ELECTRICAL, TELEPHONE, CABLE TV, GAS AND OTHER UTILITY LINES, CABLES, AND APPURTENANCES ENCOUNTERED DURING CONSTRUCTION THAT REQUIRE RELOCATION, SHALL BE COORDINATED WITH THAT UTILITY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL NECESSARY UTILITY ADJUSTMENTS. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR DELAYS OR INCONVENIENCES CAUSED BY UTILITY COMPANY WORK CREWS. THE CONTRACTOR MAY BE REQUIRED TO RESCHEDULE HIS ACTIVITIES TO ALLOW UTILITY CREWS TO PERFORM THEIR REQUIRED WORK.

6. THE CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITY LINES WITHIN THE CONSTRUCTION AREA. ANY DAMAGE TO EXISTING FACILITIES CAUSED BY CONSTRUCTION ACTIVITY SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE AND APPROVED BY THE CONSTRUCTION OBSERVER.

7. CONSTRUCTION ACTIVITY SHALL BE LIMITED TO THE PROPERTY AND/OR PROJECT LIMITS. ANY DAMAGE TO ADJACENT PROPERTIES RESULTING FROM THE CONSTRUCTION PROCESS SHALL BE REPAIRED OR REPLACED AT THE CONTRACTOR'S EXPENSE.

8. OVERNIGHT PARKING OF CONSTRUCTION EQUIPMENT SHALL NOT OBSTRUCT DRIVEWAYS OR DESIGNATED TRAFFIC LANES. THE CONTRACTOR SHALL NOT STORE ANY EQUIPMENT OR MATERIAL WITHIN THE PUBLIC RIGHT-OF-WAY.

9. THE CONTRACTOR SHALL OBTAIN ALL THE NECESSARY PERMITS FOR THE PROJECT PRIOR TO COMMENCING CONSTRUCTION (I.E., BARRICADING, TOPSOIL DISTURBANCE, EXCAVATION PERMITS, EPA STORM WATER PERMITS, ETC.).

10. ALL PROPERTY CORNERS DESTROYED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ALL PROPERTY CORNERS MUST BE RESET BY A REGISTERED LAND SURVEYOR.

11. THE CONTRACTOR SHALL PREPARE A CONSTRUCTION TRAFFIC CONTROL AND SIGNING PLAN AND OBTAIN APPROVAL OF SUCH PLAN FROM THE CITY OF ALBUQUERQUE, TRAFFIC ENGINEERING DEPARTMENT, PRIOR TO BEGINNING ANY CONSTRUCTION WORK ON OR ADJACENT TO EXISTING STREETS.

12. ALL BARRICADES AND CONSTRUCTION SIGNING SHALL CONFORM TO APPLICABLE SECTIONS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD), US DEPARTMENT OF TRANSPORTATION, LATEST EDITION.

13. THE CONTRACTOR SHALL MAINTAIN ALL CONSTRUCTION BARRICADES AND SIGNING AT ALL TIMES. THE CONTRACTOR SHALL VERIFY THE PROPER LOCATION OF ALL BARRICADING AT THE END AND BEGINNING OF EACH DAY.

14. THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO CONFORM WITH EPA REQUIREMENTS, INCLUDING COMPLIANCE WITH NPDES PHASE 2 REQUIREMENTS

GRADING NOTES

1. EXCEPT AS PROVIDED HEREIN, GRADING SHALL BE PERFORMED AT THE ELEVATIONS AND IN ACCORDANCE WITH THE DETAILS SHOWN ON THIS PLAN.

2. THE COST FOR REQUIRED CONSTRUCTION DUST AND EROSION CONTROL MEASURES SHALL BE INCIDENTAL TO THE PROJECT COST.

3. ALL WORK RELATIVE TO FOUNDATION CONSTRUCTION, SITE PREPARATION, AND PAVEMENT INSTALLATION, AS SHOWN ON THIS PLAN, SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE "GEOTECHNICAL INVESTIGATION," AS PROVIDED BY THE ARCHITECT OR OWNER. ALL OTHER WORK SHALL, UNLESS OTHERWISE STATED OR PROVIDED FOR HEREON, BE CONSTRUCTED IN ACCORDANCE WITH THE PROJECT, (FIRST PRIORITY) SPECIFICATIONS, AND/OR THE CITY OF ALBUQUERQUE (COA) STANDARD SPECIFICATIONS FOR PUBLIC WORKS (SECOND PRIORITY).

4. EARTH SLOPES SHALL NOT EXCEED 3 HORIZONTAL TO 1 VERTICAL UNLESS SHOWN OTHERWISE.

5. IT IS THE INTENT OF THESE PLANS THAT THIS CONTRACTOR SHALL NOT PERFORM ANY WORK OUTSIDE OF THE PROPERTY BOUNDARIES EXCEPT AS REQUIRED BY THIS PLAN.

6. THE CONTRACTOR IS TO ENSURE THAT NO SOIL ERODES FROM THE SITE ONTO ADJACENT PROPERTY OR PUBLIC RIGHT-OF-WAY. THIS SHOULD BE ACHIEVED BY CONSTRUCTING TEMPORARY BERMS OR SILT FENCE AT THE PROPERTY LINES AND WETTING THE SOIL TO PROTECT IT FROM WIND EROSION.

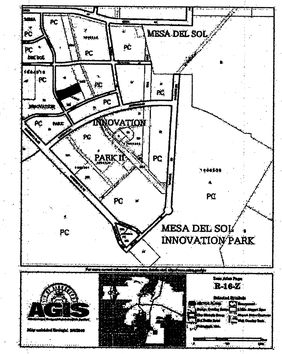
7. A DISPOSAL SITE FOR ANY & ALL EXCESS EXCAVATION MATERIAL, AND UNSUITABLE MATERIAL AND/OR A BORROW SITE CONTAINING ACCEPTABLE FILL MATERIAL SHALL BE OBTAINED BY THE CONTRACTOR IN COMPLIANCE WITH APPLICABLE ENVIRONMENTAL REGULATIONS AND APPROVED BY THE OBSERVER. ALL COSTS INCURRED IN OBTAINING A DISPOSAL OR BORROW SITE AND HAUL TO OR FROM SHALL BE CONSIDERED INCIDENTAL TO THE PROJECT AND NO SEPARATE MEASUREMENT OR PAYMENT SHALL BE MADE.

8. PAVING AND ROADWAY GRADES SHALL BE +/- 0.1' FROM PLAN ELEVATIONS. PAD ELEVATION SHALL BE +/- 0.1' FROM BUILDING PLAN ELEVATION.

9. ALL PROPOSED CONTOURS REFLECT TOP OF PAVEMENT ELEVATIONS IN THE PARKING AREA AND MUST BE ADJUSTED FOR MEDIANS AND ISLANDS.

10. VERIFY ALL ELEVATIONS SHOWN ON PLAN FROM BASIS OF ELEVATION CONTROL STATION PRIOR TO BEGINNING CONSTRUCTION.

11. SITE CONSTRUCTION TO MEET REQUIREMENTS OF SWPPP (STORM WATER POLLUTION PREVENTION PLAN).



LOCATION MAP

ZONE ATLAS INDEX MAP R-16
NOT TO SCALE

BENCH MARKS:

BENCHMARK #1
1_R16
N1453939.35 E1533242.614 5291.48

BENCHMARK #2
3_Q16
N1457546.798 E1534025.978 5310.42

LEGEND

	PROPERTY LINE
5301	EXISTING CONTOURS
X 5301.15	EXISTING GROUND SPOT ELEVATION
65.23	PROPOSED SPOT ELEVATION TC=TOP OF CURB, FL=FLOW LINE, TG=TOP OF GRAIE, TS=TOP OF SDWLK TA=TOP OF ASPHALT
S=2.0%	PROPOSED DIRECTION OF FLOW
	WATER BLOCK
5325	PROPOSED INDEX CONTOURS
	PROPOSED INTER CONTOURS
	PROPOSED RETAINING WALL
	EASEMENT
SD	PROPOSED STORM DRAIN LINE
	PROPOSED STORM DRAIN MANHOLE
	PROPOSED STORM DRAIN INLET

RECEIVED
APR 14 2010
HYDROLOGY SECTION

Bohannan ▲ Huston
Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335
ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CONSULTING ENGINEERS

CIVIL: BOHANNAN HUSTON
7500 JEFFERSON, JEFFERSON NE
ALBUQUERQUE, NM 87109
C: MICHAEL BALASKOVITS - (505) 823-1000

STRUCTURAL: DEBOO TYLERSVILLE ROAD - SUITE 7
CHESTERFIELD, MO 63005
C: TIM SCHAEFER - (314) 469-7800

MECHANICAL: ICON MECHANICAL
1818 CLEVELAND BLVD.
GREENSBORO, NC 27408
C: TIM SCHAEFER - (336) 482-0035

ELECTRICAL: POWER DESIGN, LLC
7770 CHESTERFIELD ROAD
INDIANAPOLIS, IN 46256
C: BRIAN INSKEEP - (317) 723-3375

PLUMBING: 177 CHESTERFIELD INDUSTRIAL BLVD.
CHESTERFIELD, MO 63005
C: TIM SCHAEFER - (314) 469-7800

FIRE PROTECTION: KAUFMAN FIRE PROTECTION
3301 GRAND NE
ALBUQUERQUE, NM 87107
C: DON KAUFMAN - (505) 884-2447

CONTRACTOR

ARCO
Federal Contractors, Licensed, Bonded
6565 Americas Parkway NE, Suite 800
ST. LOUIS, MISSOURI 63144
(P) 314-993-0715

ARCHITECT

GMA DESIGN GROUP, INC.
ARCHITECTS & LANDSCAPE ARCHITECTS
A DIVISION OF ARCO NATIONAL CONSTRUCTION
1700 SOUTH BRENTWOOD
SUITE 901
ST. LOUIS, MISSOURI 63144
(P) 314-422-5181 (F) 314-968-4789
WWW.GMADESIGNGROUP.COM

DATA EQUIPMENT EXPANSION FOR:
MOLINA® HEALTHCARE
2610 TUPING DRIVE SE
ALBUQUERQUE, NEW MEXICO 87106

MICHAEL BALASKOVITS
NEW MEXICO
18187
4-14-10
LICENSED PROFESSIONAL ENGINEER

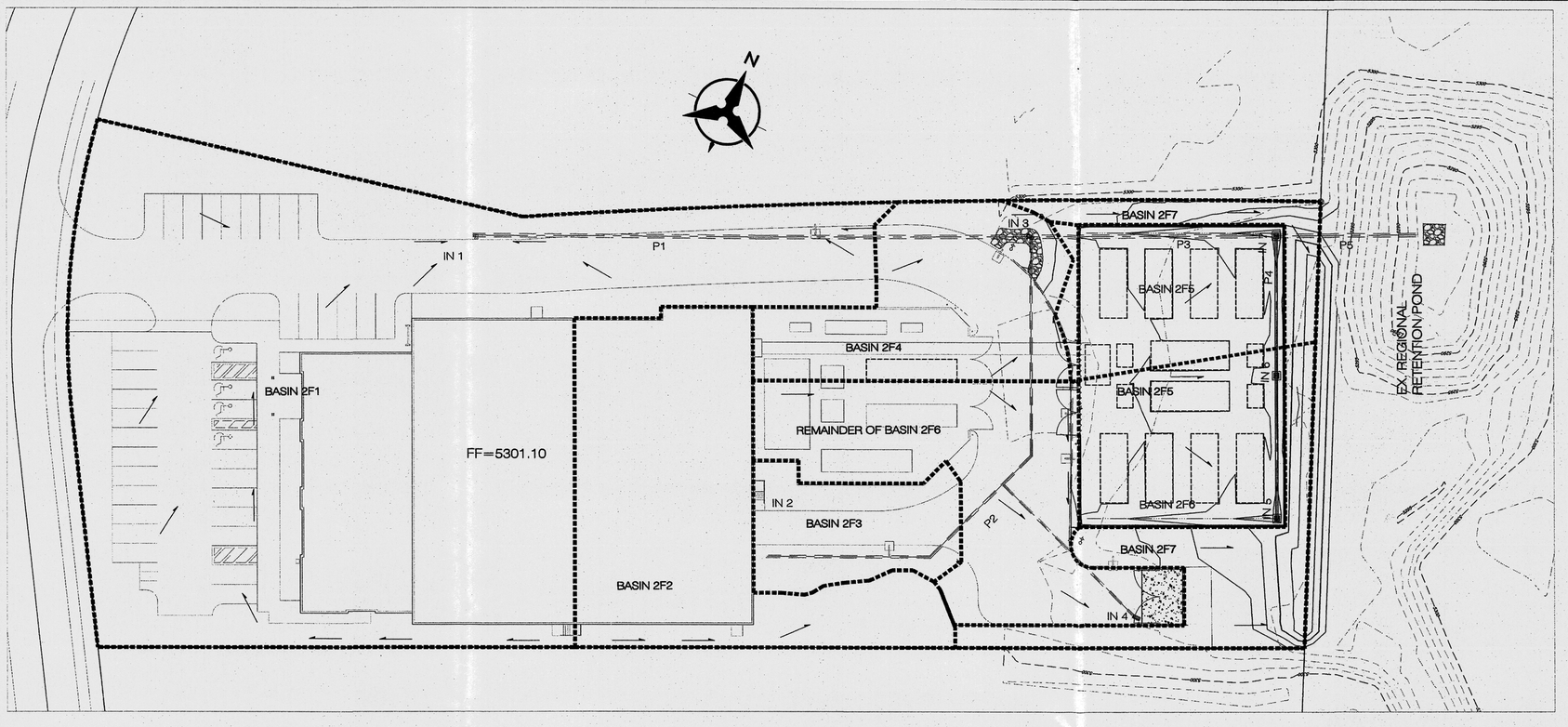
JOB NO :

DRAWN BY : MJB

ISSUE DATE : 02/16/10

REVISIONS △
1 04-14-2010
2
3
4
5

SHEET NUMBER
C100



DRAINAGE BASIN MAP

SCALE 1"=30'

LOCATION MAP

ZONE ATLAS INDEX MAP R-16

NOT TO SCALE

MOLINA DATA CENTER BASIN PROPERTIES

Proposed Ultimate Development Conditions Basin Data Table (BASIN 2F)

This table is based on the DPM Section 22.2, Zone: 2

Basin ID	Area (SQ. FT)	Area (AC.)	Land Treatment Percentages A	B	C	D	Q(100) (cfs/ac.)	Q(100) (CFS)	V(100) (inches)	$V(100)_{6HR}$ (CF)	$V(100)_{10day}$ (CF)
2F1	52004	1.19	0.0%	10.0%	0.0%	90.0%	4.46	*5.32*	*1.99*	*8607*	*14847*
2F2	14045	0.32	0.0%	10.0%	0.0%	90.0%	4.46	*1.44*	*1.99*	*2324*	*4010*
2F3	4264	0.10	0.0%	10.0%	0.0%	90.0%	4.46	*0.44*	*1.99*	*706*	*1217*
2F4	8641	0.20	0.0%	10.0%	0.0%	90.0%	4.46	*0.88*	*1.99*	*1430*	*2467*
2F5	12165	0.28	0.0%	10.0%	0.0%	90.0%	4.46	*1.24*	*1.99*	*2013*	*3473*
2F6	10773	0.25	0.0%	10.0%	0.0%	90.0%	4.46	*1.10*	*1.99*	*1783*	*3076*
2F7	7889	0.18	0.0%	10.0%	0.0%	90.0%	4.46	*0.81*	*1.99*	*1306*	*2252*
	TOTALS	2.52						*11.24*			*26014.30*

STORM DRAIN PIPE TABLE

PIPE #	Contributing Basins and Storm Drains	Size in.	Slope	Capacity* cfs	ACTUAL FLOW cfs	PIPE LENGTH ft	INVERT IN	INVERT OUT
ONSITE								
P1	2F1	18	1.00%	10.50	5.32	250.0	5293.00	5290.00
P2	2F2, 2F3, 2F5	12	1.67%	4.60	2.98	240.0	5294.00	5290.00
P3	P1, P2, 2F4	18	1.00%	10.50	9.18	172.0	5290.00	5288.28
P4	2F6	12	2.40%	5.52	1.24	124.5	5291.57	5288.58
P5	P3, P4	18	1.00%	10.50	10.43	124.5	5291.57	5290.33

* - Capacity Based on Manning's Eq w/ N=0.013

INLET TABLE

Inlet #	Inlet Type	Actual Flow	Avail Head ft	Capacity CFS
IN1	1-SGL COA TYPE D*	5.32	0.50	7.83
IN2	Trench Drain	0.44	0.50	1.36
IN3	24" nyloplast Area Drain	0.88	0.50	4.50
IN4	24" nyloplast Area Drain	1.10	1.50	5.50
IN5-IN7	24" nyloplast Area Drain	1.24	1.40	5.50

LEGEND

- CURRENT SUB-BASIN LINE
- ORIGINAL SUB-BASIN LINE
- BASIN 1J — CURRENT SUB-BASIN ID
- BASIN 1J — ORIGINAL SUB-BASIN ID
- DEVELOPED FLOW ARROW
- EXISTING FLOW — EXISTING FLOW ARROW
- DIVERSION (SWALE/BERM)
- PROPOSED STORM DRAIN

I. INTRODUCTION

The purpose of this submittal is to present a supplemental grading and drainage plan for the expansion of the Utility Yard at the Molina Data Center in Mesa del Sol. The entire site detailed in the original approved drainage management plan and grading and drainage plan (Engineer's Stamp date 10-02-08, COA Hydro folder R16/DA2002) was analyzed as being fully developed (90% D, and 10% B). The improvements noted on this plan will not deviate from the original developed land treatments, so expansion to the pond volume will not be required. This plan merely provides details concerning how this drainage will now enter the existing regional retention pond constructed with the original contract.

II. EXISTING HYDROLOGIC CONDITIONS

During the original construction, the existing site was sloped down to the pond from west to east at approximately 3-5%. A portion of BASIN 2F5 and all of basin 2F6 enter the pond directly via surface flow. The land treatments for these basins were shown as developed (90% D and 10% B) on the original plan.

III. PROPOSED HYDROLOGIC CONDITIONS

The improvements to the utility yard encompass approximately a half acre and include the addition of concrete pads for various generators and electric equipment which will be surrounded by a wall for security purposes. In addition, landscaping will be added around this new walled in area. The drainage analysis of this site will continue to follow the original drainage management plan and outfall to the regional retention pond to the east. However the Utility Yard will now outfall directly to the existing 18" storm drainage located along the north side of the site and outfall directly to the regional retention pond.

The development will encompass approximately 0.25 acres of two of the original basins (a portion of BASINS 2F6 & 2F5). This new basin will now be noted as BASIN 2F5. The remainder of the site, outside of the Utility Yard will be referred to hereafter as BASIN 2F7. BASIN 2F5 will now drain directly to the existing 18" storm drain running along the north end of the site. A new storm drain will be constructed along the eastern edge of the Utility Yard with 3 inlets (IN 5 – IN 7) to pick up the small amount of drainage that enters this site. The addition of 1.24cfs will not exceed the current capacity of the existing 18" storm drain available (10.50cfs). BASIN 2F7 will continue to outfall as this portion did previously via surface flow directly into the existing region retention pond.

The original regional retention pond constructed with this project was sized for the 100yr, 10day storm based on developed conditions (90% D and 10% B). The land treatments for this addition did not change so no further adjustments to the pond do not have to be made.

Floodplain

In accordance with FEMA Community Map Panel #35001C0555 D, the site is not located within a floodplain.

IV. CONCLUSION

This drainage management plan demonstrates that the drainage from the entire Molina Data Center site is capable of safely passing the 100 year storm event and meets city and Level B requirements. With this submittal we are seeking Building Permit approval. This submittal is a supplement to the approved grading and drainage plan (Engineer's Stamp Date 10-2-08).

Bohannan ▲ Huston

Courtyard I 7500 Jefferson St. NE Albuquerque, NM 87109-4335

ENGINEERING ▲ SPATIAL DATA ▲ ADVANCED TECHNOLOGIES

CONSULTING ENGINEERS

CIVIL: BOHANNAN HUSTON
COURTYARD I, 7500 JEFFERSON NE
ALBUQUERQUE, NM 87109
C: MICHAEL BALASKOVITS - P:(505) 823-1000

STRUCTURAL: CORNERSTONE ARCHITECTS
6660 TYLERSVILLE ROAD - SUITE 7
CINCINNATI, OH 45244
C: DAVID WOLFE - P:(513) 229-6000

MECHANICAL: ICON MECHANICAL
1616 CLEVELAND BLVD.
GRANITE CITY, IL 62040
C: TIM SCHAEFER - P:(618) 452-0035

ELECTRICAL: POWER DESIGN, LLC
8888 KEYSTONE CROSSING ROAD
INDIANAPOLIS, IN 46268
C: BRIAN INGRICH P:(317) 726-3375

PLUMBING: CONTROL TECH
177 CHESTERFIELD INDUSTRIAL BLVD.
CHESTERFIELD, MO 63005
C: CHAD TEMPLETON P:(636) 537-3999

FIRE PROTECTION: KAUFMAN FIRE PROTECTION
3301 GIRARD NE
ALBUQUERQUE, NM 87107
C: DON KAUFMAN - P:(505) 884-2447

CONTRACTOR

ARCO
Regional Construction Leadership, Inc.
1760 S BRENTWOOD, STE 600
ST. LOUIS, MISSOURI 63144
(P) 314-963-0715

ARCHITECT

GMA DESIGN GROUP, INC.
ARCHITECTS | TOTAL DESIGN SERVICES
A DIVISION OF ARCO NATIONAL CONSTRUCTION
1760 SOUTH BRENTWOOD
SUITE 600
ST. LOUIS, MISSOURI 63144
(P) 314-822-5191 (F) 314-968-4758
WWW.GMADESIGN.COM

DATA EQUIPMENT EXPANSION FOR:

MOLINA® HEALTHCARE

2610 TURING DRIVE SE
ALBUQUERQUE, NEW MEXICO 87106

MICHAEL BALASKOVITS
NEW MEXICO
18187
4-14-10
LICENSED PROFESSIONAL ENGINEER

JOB NO :

DRAWN BY : MJB

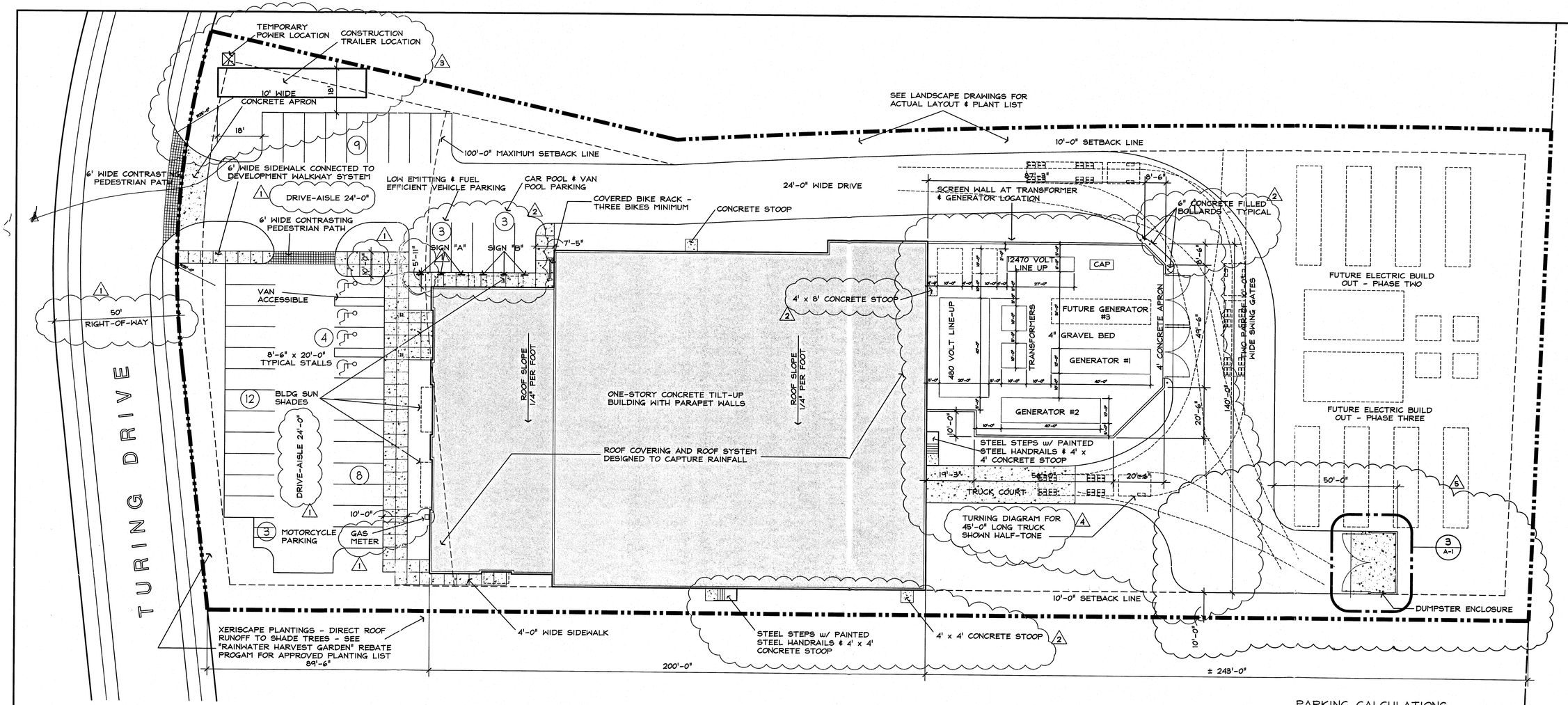
ISSUE DATE : 02/16/10

REVISIONS △
1
2
3
4
5

SHEET NUMBER

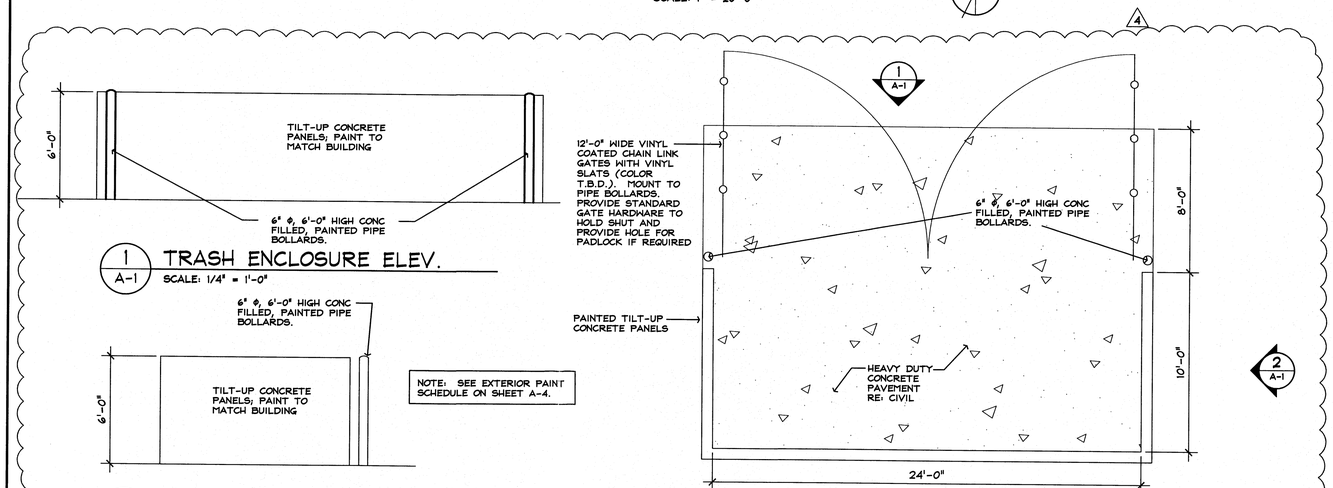
C001

P:\20100341\CDP\Plans\General\20100341DMP01.dwg
Wed, 14-Apr-2010 - 8:27:am, Plotted by: MBALASKOVITS



PROPOSED SITE PLAN

SCALE: 1" = 20'-0"



1 A-1 TRASH ENCLOSURE ELEV.

SCALE: 1/4" = 1'-0"

NOTE: SEE EXTERIOR PAINT SCHEDULE ON SHEET A-4.

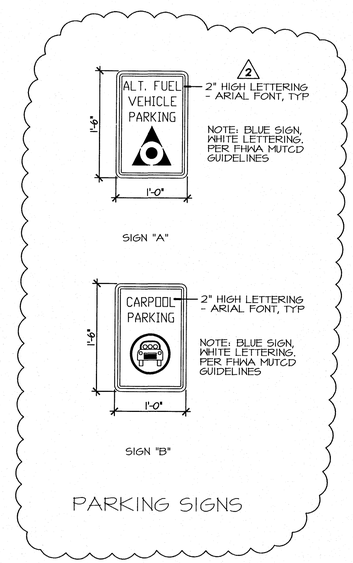
2 A-1 TRASH ENCLOSURE ELEV.

SCALE: 1/4" = 1'-0"

3 A-1 TRASH ENCLOSURE PLAN

SCALE: 1/4" = 1'-0"

SEE CIVIL DWGS



PARKING SIGNS

PARKING CALCULATIONS

		REQUIRED	PROVIDED
OFFICE	7,500 SF/ 200 SF =	38	
COMPUTER ROOM	10,000 SF/ 1,000 SF =	10	38
WAREHOUSE	7,500 SF/ 2,000 SF =	4	–
TOTAL REQUIRED PARKING		52	1
MOTORCYCLE PARKING PER 14-16-3-1 (C)		3	39
ACCESSIBLE PARKING PER 14-16-3-1 (F) 9		4	3
PREFERRED PARKING PER Mesa del Sol STDS		4	4
BICYCLE PARKING PER Mesa del Sol STDS		3	6
			3

PERVIOUS AREA CALCULATIONS

BUILDING AREA	26,171 SQ FT
SIDEWALK PAVEMENT	3,028 SQ FT
DRIVEWAY PAVEMENT	28,716 SQ FT
TOTAL IMPERVIOUS AREA	57,915 SQ FT
TOTAL SITE AREA	109,790 SQ FT
TOTAL PERVIOUS AREA	51,875 SQ FT (47.2%)

NOTE: MAXIMUM SIZE DELIVERY TRUCK IS 45'-0" LONG

RECEIVED MAY 29 2008 HYDROLOGY SECTION

CONSULTING ENGINEERS

CIVIL: BOHANNAN HUSTON, COURTYARD ONE, 7500 JEFFERSON NE, ALBUQUERQUE, NEW MEXICO 87109, C: MICHAEL BALASKOVITS - P: (505) 823-1000

STRUCTURAL: CONSULTING ENGINEERS CORPORATION, 7777 GREENWOOD PLAZA BLVD., SUITE 7, CINCINNATI, OH 45040, C: TRACY MITCHELL - P: (513) 229-4000

MECHANICAL: POWER DESIGN, LLC, 1516 CLEVELAND BLVD., GRANITE CITY, IL 62040, C: TIM SCHAEFER - P: (618) 452-0035

ELECTRICAL: POWER DESIGN, LLC, 8940 STERLING RIDGE ROAD, AUSTIN, TEXAS 78733, C: BRIAN INSKEEP - P: (317) 723-3575

PLUMBING: TENNILL & ASSOCIATES, 17777 EDISON AVENUE INDUSTRIAL BLVD., CHESTERFIELD, MO 63005, C: DANA TENNILL - P: (636) 537-3999

FIRE PROTECTION: U.S. ALARM FIRE PROTECTION, 5301 GRAND AVE., ALBUQUERQUE, NM 87107, C: DON KAUFMAN - P: (505) 884-5447

CONTRACTOR: ARCO National Construction Company, Inc.
1750 SOUTH BRENTWOOD, SUITE 600, ST. LOUIS, MISSOURI 63144, (P) 314-963-0715

ARCHITECT: GMA DESIGN GROUP INC.
ARCHITECTURAL DESIGN SERVICES
A DIVISION OF ARCO NATIONAL CONSTRUCTION
1750 SOUTH BRENTWOOD, SUITE 600, ST. LOUIS, MISSOURI 63144
PHONE 314-822-5191 FAX 314-963-0715

PROPOSED NEW BUILDING FOR:

PROJECT HAL

LOT 12A MESA DEL SOL, ALBUQUERQUE, NEW MEXICO

STATE OF NEW MEXICO
JACK W. BRAY
NO. 004429
REGISTERED ARCHITECT
5/29/08

I CERTIFY THAT TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS & SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

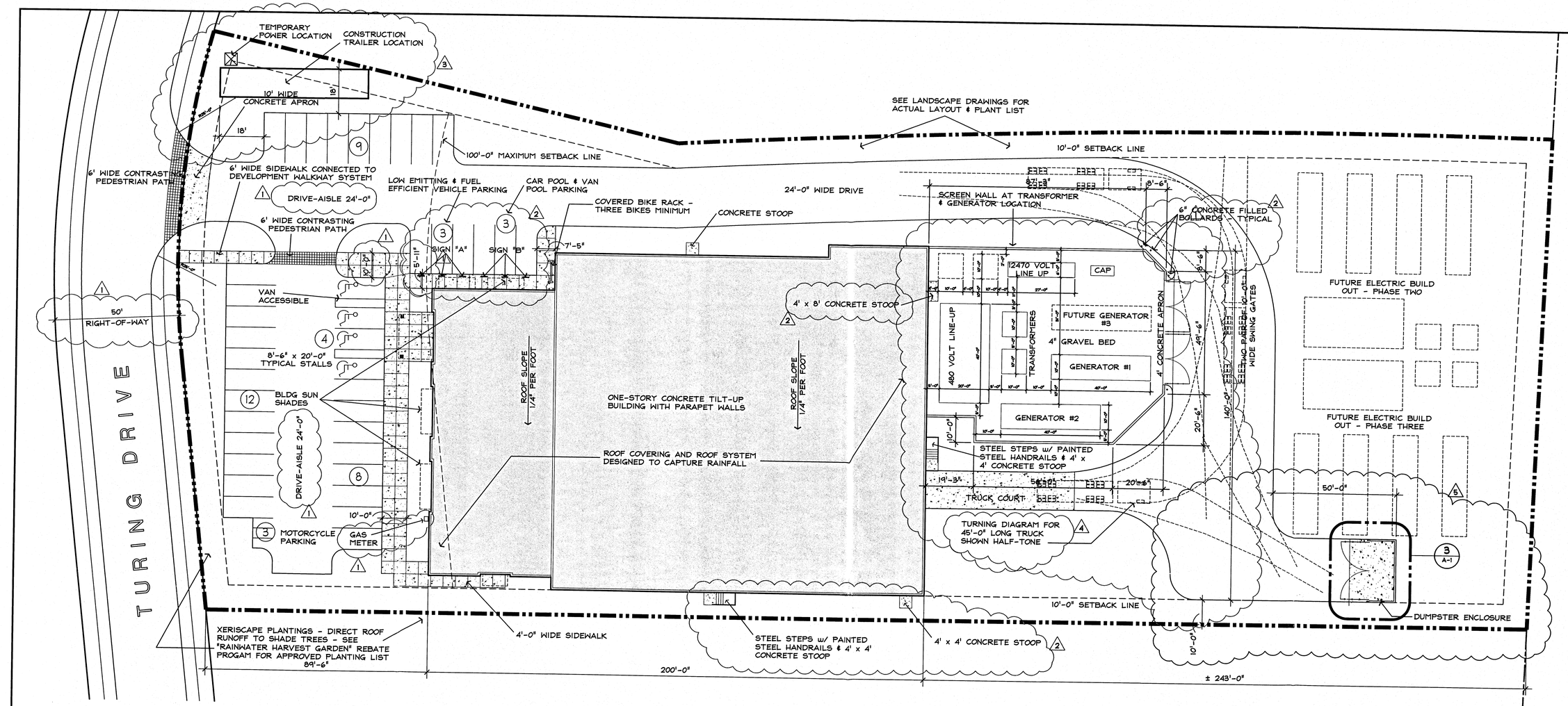
JOB NO : SJ0716

DRAWN BY : FCW

ISSUE DATE : 06-26-08

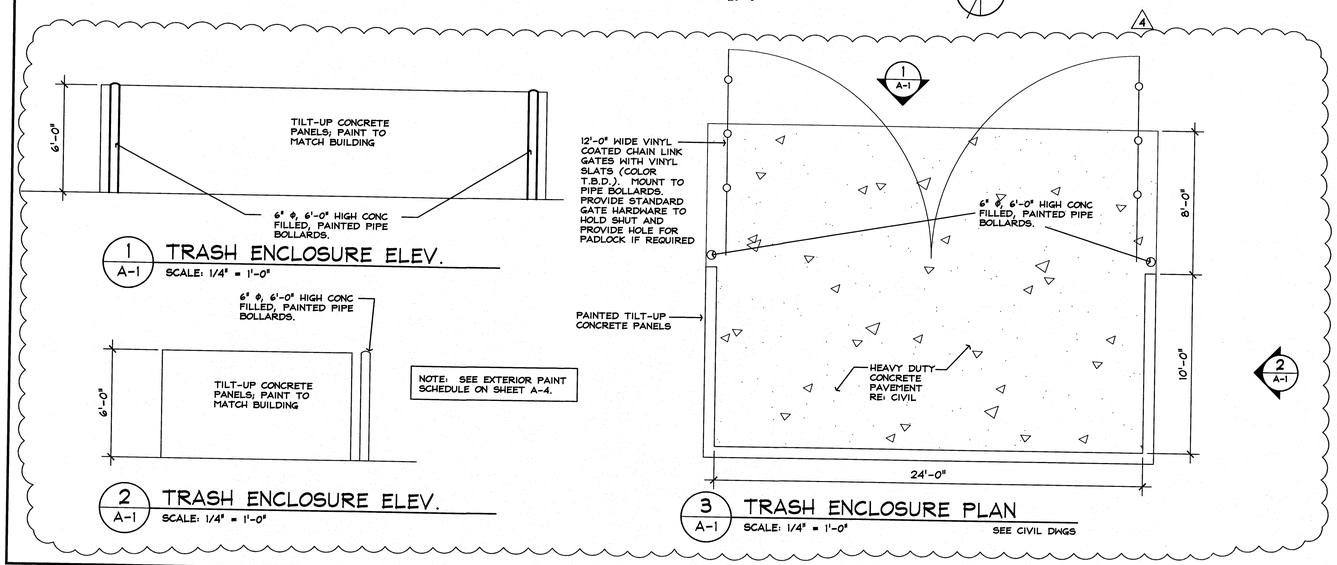
REVISIONS △
1 07.15.08 ARC Comments
2 07-28-08
3 08-05-08
4 09-12-08
5 10-07-08

SHEET NUMBER
A-1
SITE PLAN



PROPOSED SITE PLAN

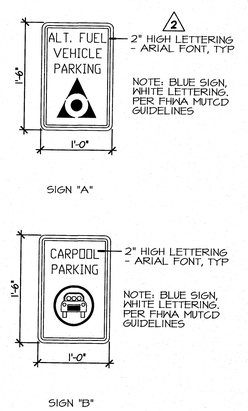
SCALE: 1" = 20'-0"



1 A-1 TRASH ENCLOSURE ELEV.
SCALE: 1/4" = 1'-0"

2 A-1 TRASH ENCLOSURE ELEV.
SCALE: 1/4" = 1'-0"

3 A-1 TRASH ENCLOSURE PLAN
SCALE: 1/4" = 1'-0"
SEE CIVIL DWGS



PARKING SIGNS

PARKING CALCULATIONS

		REQUIRED	PROVIDED
OFFICE	7,500 SF/ 200 SF =	38	
COMPUTER ROOM	10,000 SF/ 1,000 SF =	10	38
WAREHOUSE	7,500 SF/ 2,000 SF =	4	–
TOTAL REQUIRED PARKING		52	1
MOTORCYCLE PARKING PER 14-16-3-1 (C)		3	39
ACCESSIBLE PARKING PER 14-16-3-1 (F) 9		4	4
PREFERRED PARKING PER Mesa del Sol STDS		4	6
BICYCLE PARKING PER Mesa del Sol STDS		3	3

PERVIOUS AREA CALCULATIONS

BUILDING AREA	26,171 SQ FT	
SIDEWALK PAVEMENT	3,028 SQ FT	
DRIVEWAY PAVEMENT	28,716 SQ FT	
TOTAL IMPERVIOUS AREA	57,915 SQ FT	
TOTAL SITE AREA	109,790 SQ FT	
TOTAL PERVIOUS AREA	51,875 SQ FT (47.2%)	

NOTE: MAXIMUM SIZE DELIVERY TRUCK IS 45'-0" LONG

CONSULTING ENGINEERS

CIVIL: BOHANNAN HUSTON COURTYARD ONE, 7500 JEFFERSON NE ALBUQUERQUE, NM 87109 ☏ MICHAEL BALASKOVITS - ☎(505) 823-1000

STRUCTURAL: CONSULTING ENGINEERS, CORPORATION 9300 WYNN PLACE - SUITE 7 CINCINNATI, OH 45040 ☏ TRACY MITCHELL - ☎(513) 229-9000

MECHANICAL: TENNILL & ASSOCIATES 177 CHESTERFIELD INDUSTRIAL BLVD. CHESTERFIELD, MO 63005 ☏ DANA TENNILL - ☎(636) 537-3999

PLUMBING: POWER DESIGN LLC 8940 STERLING RIDGE ROAD INDIANAPOLIS, IN 46236 ☏ BRIAN HOOSER - ☎(317) 723-3375

FIRE PROTECTION: KAUFMAN FIRE PROTECTION 1919 CLEVELAND BLVD. ALBUQUERQUE, NM 87107 ☏ DON KAUFMAN - ☎(505) 884-2447

CONTRACTOR: ARCO National Construction Company, INC.
1750 SOUTH BRENTWOOD, SUITE 600 ST. LOUIS, MISSOURI 63144 (P) 314-962-9115

ARCHITECT: GMA DESIGN GROUP INC.
ARCHITECTURAL DESIGN SERVICES
A DIVISION OF ARCO NATIONAL CONSTRUCTION
1750 SOUTH BRENTWOOD, SUITE 600 ST. LOUIS, MISSOURI 63144
PHONE: 314-962-9115 FAX: 314-962-4758

PROPOSED NEW BUILDING FOR:
PROJECT HAL
LOT 12A MESA DEL SOL
ALBUQUERQUE, NEW MEXICO

STATE OF NEW MEXICO
MICK W. BRAY
NO. 004429
REGISTERED ARCHITECT
6-26-08

I CERTIFY TO THE BEST OF MY KNOWLEDGE THAT THE DRAWINGS & SPECIFICATIONS COMPLY WITH THE APPLICABLE MINIMUM BUILDING CODES

JOB NO : SJ0716
DRAWN BY : FCW
ISSUE DATE : 06-26-08

REVISIONS △
1 07.15.08 ARC Comments
2 07-28-08
3 08-05-08
4 09-12-08
5 10-07-08

SHEET NUMBER
A-1
SITE PLAN

RECEIVED
MAY 22 2009
HYDROLOGY SECTION