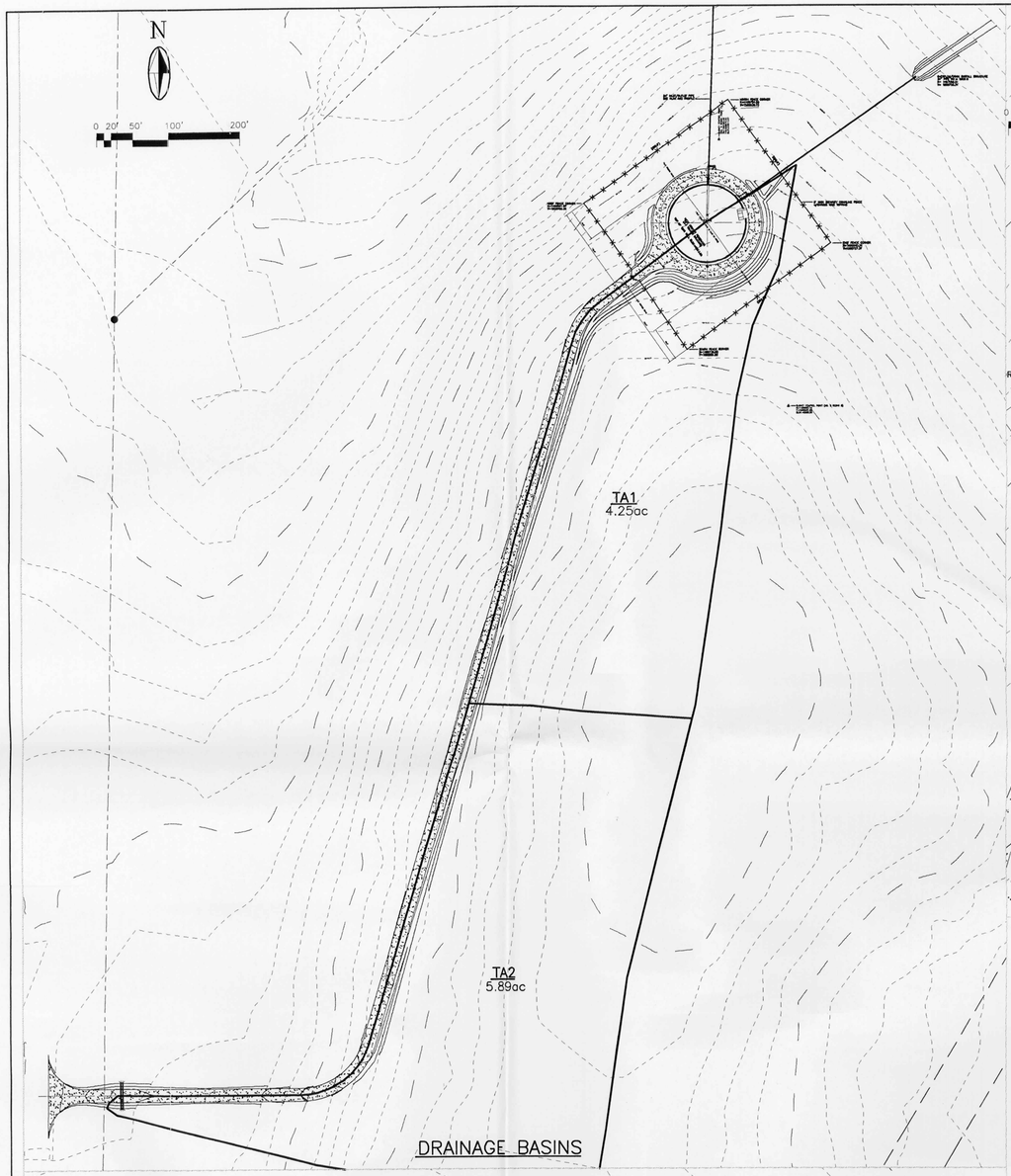
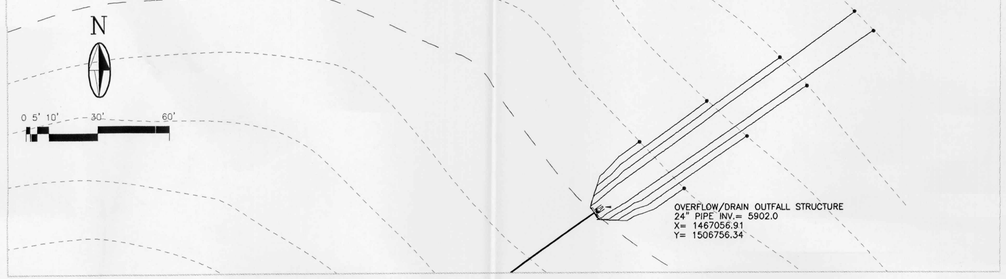
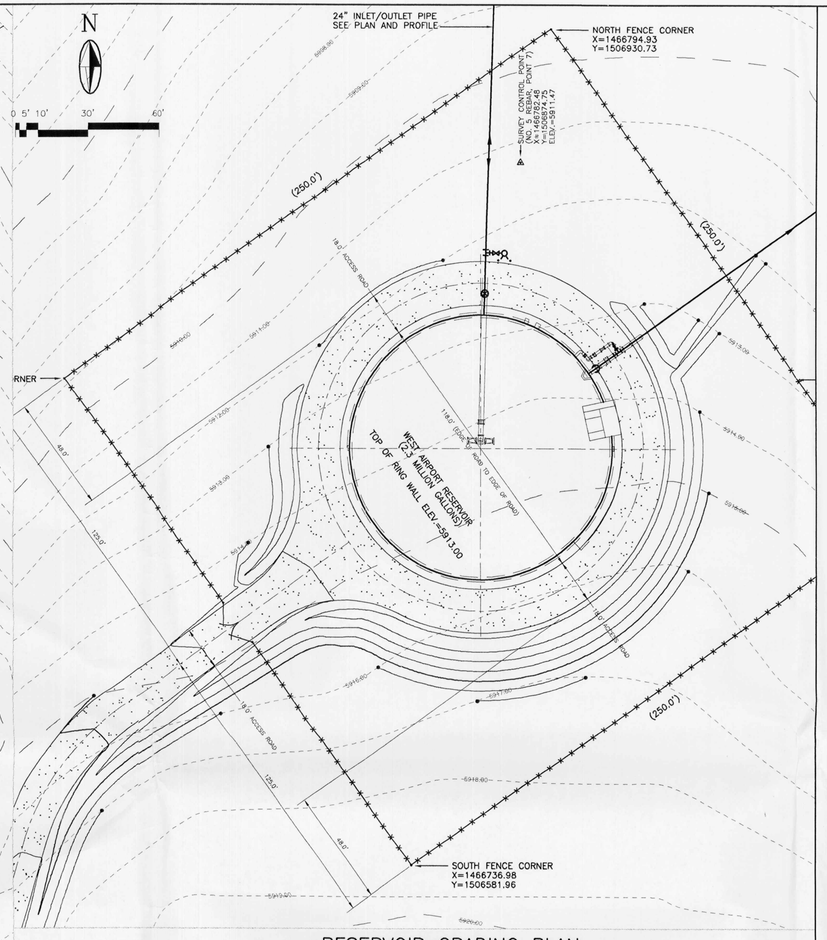



DRAINAGE BASINS




POND/OUTFALL STRUCTURE GRADING




RESERVOIR GRADING PLAN

## LEGEND

- EXISTING CONTOUR (1' CONTOUR INTERVAL)
- NEW CONTOUR
- NEW TOPO SPOT ELEVATION
- NEW CHAINLINK FENCE
- SURVEY CONTROL POINT
- ACCESS ROAD GRAVEL SURFACE
- SUB-BASIN BOUNDARIES

## KEYED NOTES

1. DISINFECTION FACILITY BUILDING PAD ELEV.=5913.00
2. 18' WIDE ACCESS ROAD, 6" THICK GRAVEL SURFACE COURSE OVER 12" COMPACTED SUBGRADE
3. RESERVOIR CENTER POINT
   X=1466765.96, Y=1506756.34
4. 2-21"x15" ARCH CMP PIPES, L=40.0'
   INV IN=5911.86, INV OUT=5911.60, SLOPE=0.70%

## SITE CHARACTERISTICS

* 100 YEAR RAINFALL TABLE
  - 100yr - 1hr = 1.87in
  - 100yr - 6hr = 2.20in
  - 100yr - 24hr = 2.66in
* SUB-BASIN TA1
  - AREA = 4.25ac
  - LAND TREATMENT:
  - A = 90.0%
  - B = 0.0%
  - C = 0.0%
  - D = 10.0%
  - REACH = 770.0ft
  - HIGH EL. = 5925.0ft
  - LOW EL. = 5912.0ft
* SUB-BASIN TA2
  - AREA = 5.89ac
  - LAND TREATMENT:
  - A = 90.0%
  - B = 0.0%
  - C = 0.0%
  - D = 10.0%
  - REACH = 1056.0ft
  - HIGH EL. 5925.0ft
  - LOW EL. = 5912.0ft

## CALCULATIONS

* SUB-BASIN TA1
  - Q(100yr-6yr) = 5.89cfs
  - Q(100yr-24yr) = 10.52cfs
  - RUNOFF Vol.(100yr-6hr) = 0.208ac-ft
  - RUNOFF Vol.(100yr-24hr) = 0.505ac-ft
  - TP(100yr-6hr) = 1.532hr
  - TP(100yr-24hr) = 1.550hr
* SUB-BASIN TA2
  - Q(100yr-6hr) = 9.52cfs
  - Q(100yr-24hr) = 9.56cfs
  - RUNOFF Vol.(100yr-6hr) = 0.209ac-ft
  - RUNOFF Vol.(100yr-24hr) = 0.313ac-ft
  - TP(100yr-6hr) = 1.499hr
  - TP(100yr-24hr) = 1.500hr

## PIPE CALCULATIONS

TYPE = 21"x15" CMP ARCH PIPE
FLOWRATE = 15.22cfs
LENGTH = 40.0'
SLOPE = 0.70%

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

BENCH MARKS

AS BUILT INFORMATION

CONTRACTOR
WORK STARTED BY — DATE
INSPECTORS
FIELD ACCEPTANCE BY — DATE
FINAL ACCEPTANCE BY — DATE
VERIFICATION BY — DATE
CORRECTED BY — DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

SEAL — JOHN M. NEW — NEW MEXICO — 10991 — REGISTERED PROFESSIONAL ENGINEER — STATE OF NEW MEXICO

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |
| | | DESIGNED BY JMP, RDG | DATE 10/24/03 |
| | | DRAWN BY RDG | DATE 10/24/03 |
| | | CHECKED BY JMP | DATE 10/24/03 |

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# DOUBLE EAGLE II UPPER RESERVOIR GRADING AND DRAINAGE PLAN FUTURE CONDITIONS

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

City Project No. | Zone Map No. | Sheet 5 Of 5

CAB-106 1=1 10/24/03

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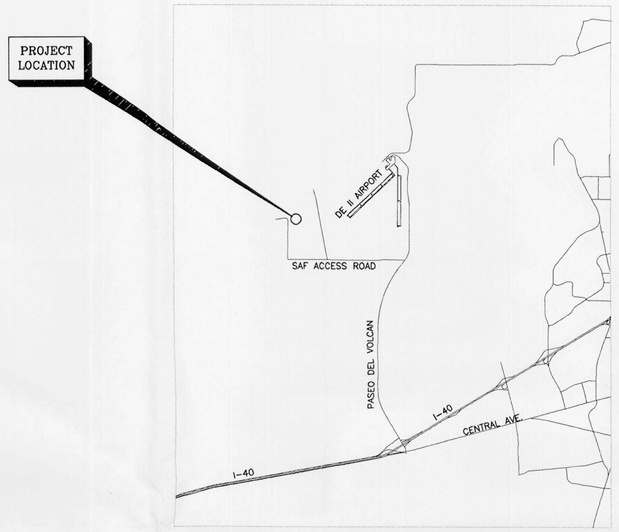
## LEGEND

- 5927.80 — EXISTING CONTOUR (1' CONTOUR INTERVAL)
- LIMITS OF FUTURE DISTURBED AREA
- EXISTING SUB-BASIN BOUNDARY




VICINITY MAP

### SITE CHARACTERISTICS

* 100 YEAR RAINFALL TABLE
  - 100yr – 1hr = 1.87in
  - 100yr – 6hr = 2.20in
  - 100yr – 24hr = 2.66in
* SUB-BASIN TA1
  - AREA = 28.82ac
  - LAND TREATMENT:
  - A = 100.0%
  - B = 0.0%
  - C = 0.0%
  - D = 0.0%
  - REACH = 876.0ft
  - HIGH EL. = 5925.0ft
  - LOW EL. = 5897.0ft

### CALCULATIONS

* SUB-BASIN TA1
  - Q(100yr-6yr) = 38.09cfs
  - Q(100yr-24yr) = 38.01cfs
  - RUNOFF Vol.(100yr-6hr) = 1.054ac-ft
  - RUNOFF Vol.(100yr-24hr) = 1.054ac-ft
  - TP(100yr-6hr) = 1.532hr
  - TP(100yr-24hr) = 1.500hr

AS SHOWN ON THE VICINITY MAP, THE SITE IS LOCATED WEST OF THE DOUBLE EAGLE II AIRPORT AND CAN BE ACCESSED BY CONTINUING ALONG THE SAF ACCESS ROAD. THE SITE IS CURRENTLY UNDEVELOPED AND ACCORDING TO THE GEOTECHNICAL ENGINEERING SERVICES REPORT, JOB NO. 1-20721 "WATER SUPPLY AND TRANSMISSION LINE WASTEWATER COLLECTION AND TRANSMISSION LINE" THE SOIL IN THE AREA IS BEST DESCRIBED AS SILTY SAND.

AS SHOWN BY PANEL 100 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY F.E.M.A. FOR BERNALILLO COUNTY, NEW MEXICO DATED SEPTEMBER 20, 1996, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

THE GRADING PLAN SHOWS: 1) EXISTING GRADES INDICATED BY CONTOURS AT 1.0' INTERVAL AS SHOWN FROM THE TOPOGRAPHIC SURVEY PROVIDED BY MOLZEN-CORBIN & ASSOCIATES AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, 2) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1.0' INTERVALS, 3) THE LIMIT AND CHARTER OF THE EXISTING IMPROVEMENTS, 4) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

THE PROPOSED DEVELOPMENT CONSISTS OF A 2.16 MILLION GALLON WATER RESERVOIR AND DISINFECTION BUILDING. AN ACCESS ROAD WITH A GRAVEL SURFACE WILL ALSO BE CONSTRUCTED AS PART OF THE NEW DEVELOPMENT. THE SITE IS LOCATED ON RIDGE TOP AND CURRENTLY HAS RELIEF IN ALL DIRECTIONS WITH FLOWS ALONG THE ACCESS ROAD TYPICALLY DRAINING FROM EAST TO WEST TOWARDS THE SAF ACCESS ROAD.

PROPOSED DEVELOPMENT GRADING WILL ALLOW FLOWS CONTRIBUTING TO THE SOUTHERN PORTION OF THE ACCESS ROAD TO DRAIN FROM NORTH TO SOUTH ALONG THE ACCESS ROAD TO 2-21"x15" DIAMETER PIPES. A TOTAL OF 10.0cfs WILL FLOW THROUGH THE PIPES AND BE RELEASED ON THE NORTH SIDE OF THE ACCESS ROAD. FLOW CONTRIBUTING TO THE NORTHERN PORTION OF THE ACCESS ROAD AND THE RESERVOIR AREA TOTALING 10.5cfs WILL BE DIVERTED AROUND THE RESERVOIR AND RELEASED ON THE NORTH SIDE OF THE RESERVOIR ALLOWING TOTAL FLOWS GENERATED TO CONTINUE TO DRAIN FROM SOUTH TO NORTH.

THE CALCULATIONS SHOWN FOR BOTH EXISTING AND FUTURE CONDITIONS ANALYZE BOTH THE 100yr-24hr AND THE 100yr-6hr STORM EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY, 1993, IN CONJUNCTION WITH THE ARID-LANDS HYDROLOGIC MODEL "AHYMO-97" COMPUTER PROGRAM, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND THE VOLUME OF RUNOFF GENERATED BY THIS DEVELOPMENT.

SEAL

SURVEY INFORMATION — FIELD NOTES

| NO. | BY | DATE |
|---|---|---|
| | | |

BENCH MARKS

AS BUILT INFORMATION

| | |
|---|---|
| CONTRACTOR | |
| WORK RECORDED BY | DATE |
| INSPECTION'S ACCEPTANCE BY | DATE |
| FIELD VERIFICATION BY | DATE |
| DRAWINGS CORRECTED BY | DATE |

MICRO-FILM INFORMATION

RECORDED BY DATE

NO.

JOHN M. PROVINE NEW MEXICO (10997) REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |
| | | DESIGNED BY JMP, RDG | DATE 10/24/03 |
| | | DRAWN BY RDG | DATE 10/24/03 |
| | | CHECKED BY JMP | DATE 10/24/03 |

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# DOUBLE EAGLE II UPPER RESERVOIR GRADING AND DRAINAGE PLAN EXISTING CONDITIONS

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

| City Project No. | Zone Map No. | Sheet | Of |
|---|---|---|---|
| | | 4 | 5 |

CAB-105 1=1 10/24/03

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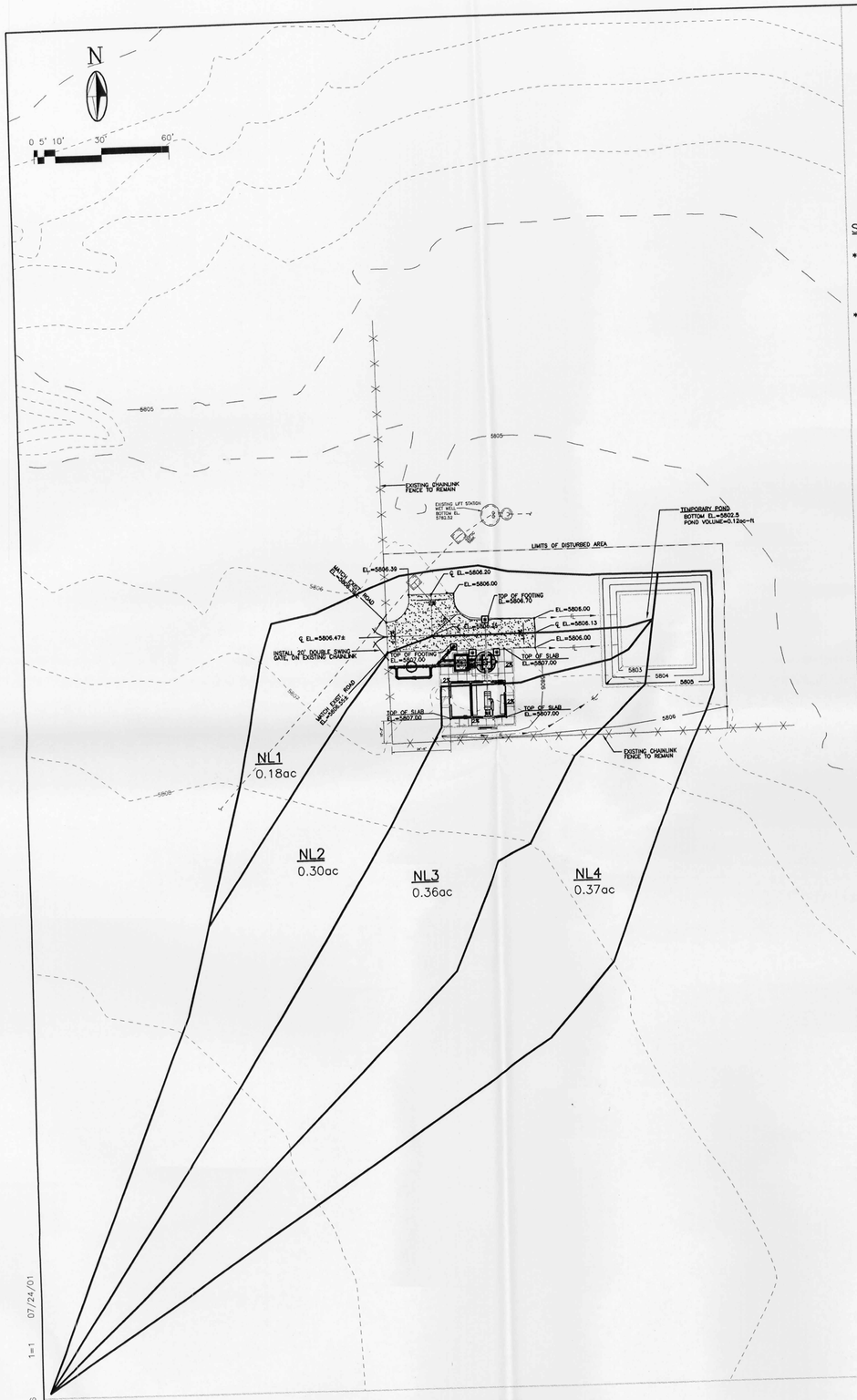



DRAINAGE BASINS

## LEGEND

- EXISTING CONTOUR (1' CONTOUR INTERVAL)
- NEW CONTOUR
- NEW TOPO SPOT ELEVATION
- ACCESS ROAD GRAVEL SURFACE
- LIMITS OF DISTURBED AREA
- SUB-BASIN BOUNDARY
- DRAINAGE CHANNEL FLOW DIRECTION

## SITE CHARACTERISTICS

* 100 YEAR RAINFALL TABLE
  100yr – 1hr = 1.87in
  100yr – 6hr = 2.20in
  100yr – 24hr = 2.66in

* SUB-BASIN NLI
  AREA = 0.18ac
  LAND TREATMENT:
  A = 0.0%
  B = 50.0%
  C = 0.0%
  D = 50.0%
  REACH = 275.0ft
  HIGH EL. = 5808.53ft
  LOW EL. = 5802.50ft

* SUB-BASIN NL2
  AREA = 0.30ac
  LAND TREATMENT:
  A = 70.0%
  B = 10.0%
  C = 0.0%
  D = 20.0%
  REACH = 464.0ft
  HIGH EL. 5810.00ft
  LOW EL. = 5802.50ft

* SUB-BASIN NL3
  AREA = 0.36ac
  LAND TREATMENT:
  A = 80.0%
  B = 0.0%
  C = 0.0%
  D = 20.0%
  REACH = 449.0ft
  HIGH EL. = 5810.00ft
  LOW EL. = 5802.50ft

* SUB-BASIN NL4
  AREA = 0.37ac
  LAND TREATMENT:
  A = 90.0%
  B = 0.0%
  C = 0.0%
  D = 10.0%
  REACH = 453.0ft
  HIGH EL. = 5810.00ft
  LOW EL. = 5802.50ft

## CALCULATIONS

* SUB-BASIN NL1
  Q(100yr-6yr) = 0.64cfs
  Q(100yr-24yr) = 0.63cfs
  RUNOFF Vol.(100yr-6hr) = 0.02ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.025ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr

* SUB-BASIN NL2
  Q(100yr-6hr) = 0.65cfs
  Q(100yr-24hr) = 0.65cfs
  RUNOFF Vol.(100yr-6hr) = 0.020ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.023ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr

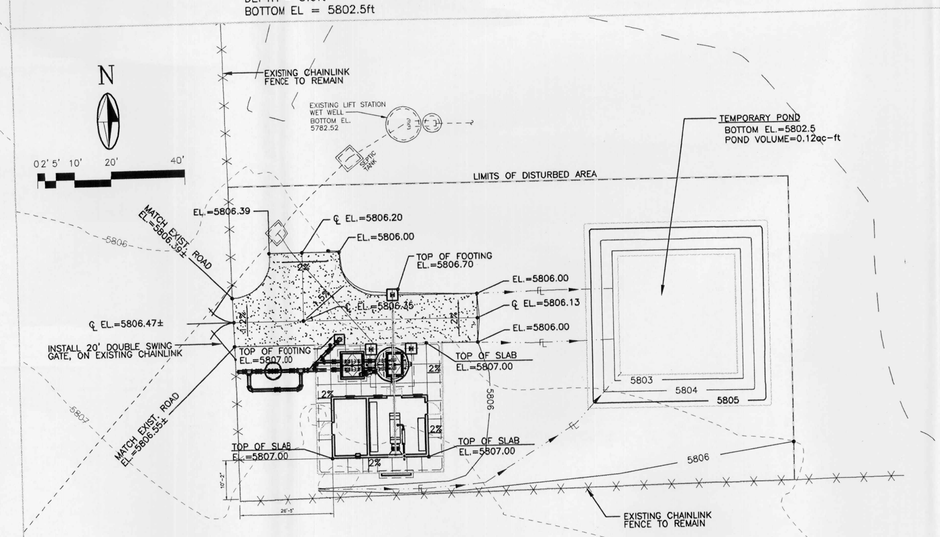
* SUB-BASIN NL3
  Q(100yr-6hr) = 0.75 cfs
  Q(100yr-24hr) = 0.75 cfs
  RUNOFF Vol.(100yr-6hr) = 0.024ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.027ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr

* SUB-BASIN NL4
  Q(100yr-6hr) = 0.63cfs
  Q(100yr-24hr) = 0.64cfs
  RUNOFF Vol.(100yr-6hr) = 0.019ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.020ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr

* COMBINED FLOWS TO POND
  Q(100yr-6hr) = 2.68cfs
  Q(100yr-24hr) = 2.66cfs
  RUNOFF Vol.(100yr-6hr) = 0.084ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.094ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr

## POND CALCULATIONS

VOLUME = 5142.0 CF>0.118ac-ft
LENGTH = 50.0ft
WIDTH = 50.0ft
DEPTH = 3.0ft
BOTTOM EL = 5802.5ft




GRADING PLAN

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

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. | BY | DATE

MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

SEAL
JOHN P. KELLY — NEW MEXICO — 10997 — REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| DESIGNED BY | | DESIGN | JMP, RDG — DATE 10/24/03 |
| DRAWN BY | | | RDG — DATE 10/24/03 |
| CHECKED BY | | | RDG — DATE 10/24/03 |

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MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

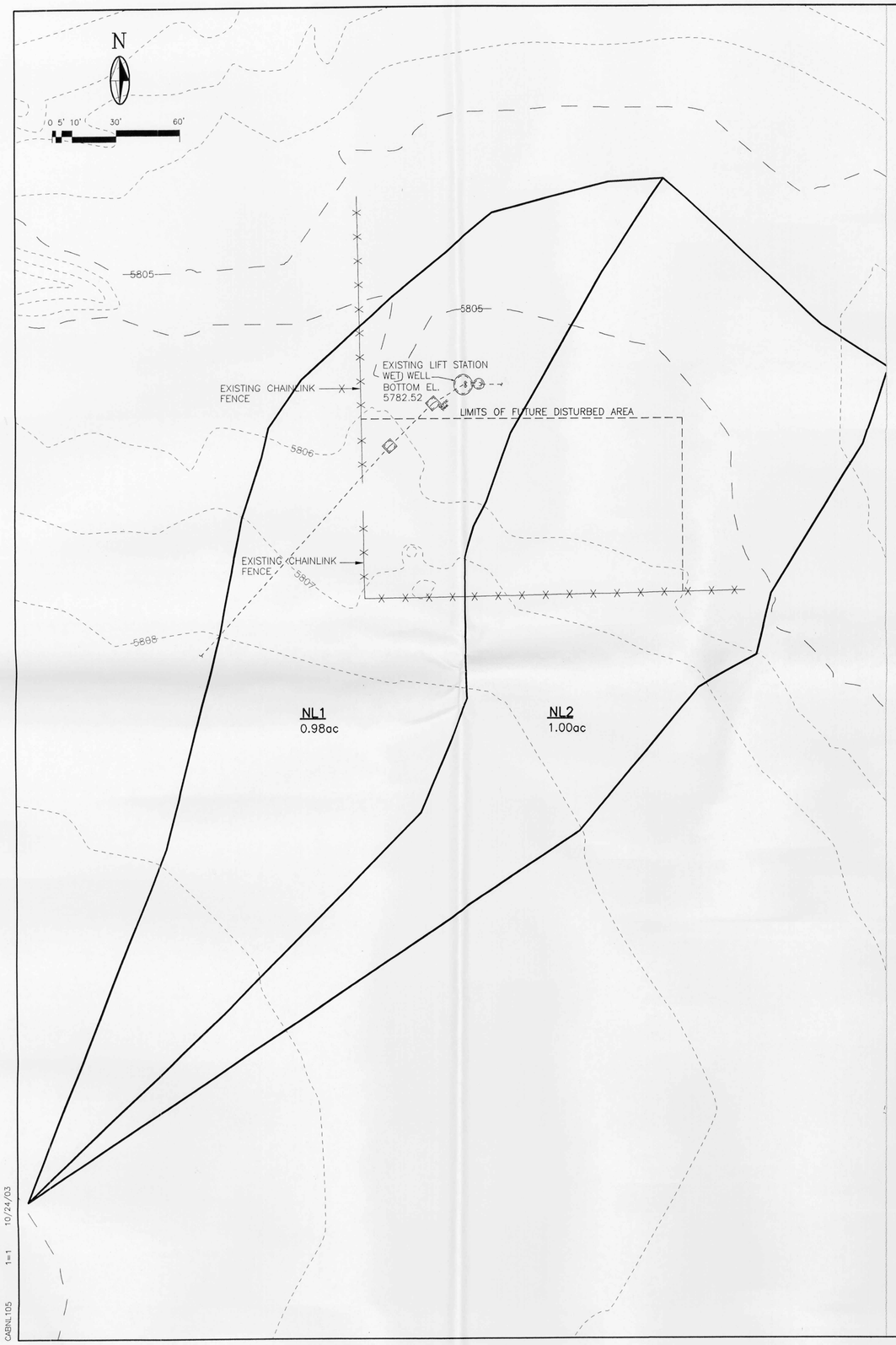
TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# NORTH LIFT STATION
# GRADING AND DRAINAGE PLAN
# FUTURE CONDITIONS

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

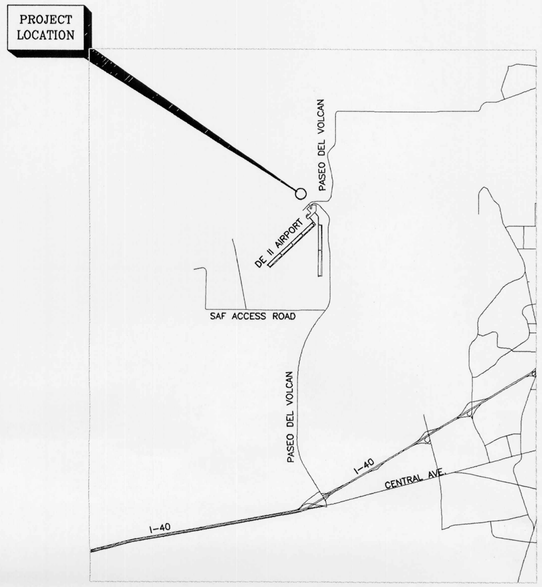
City Project No. | Zone Map No. | Sheet 5 Of 10

CABNL106 1=1 07/24/01




## LEGEND

- 5927.80 — EXISTING CONTOUR (1' CONTOUR INTERVAL)
- LIMITS OF FUTURE DISTURBED AREA
- EXISTING SUB–BASIN BOUNDARY




VICINITY MAP

## SITE CHARACTERISTICS

* 100 YEAR RAINFALL TABLE
  100yr – 1hr = 1.87in
  100yr – 6hr = 2.20in
  100yr – 24hr = 2.56in

* SUB–BASIN NL1
  AREA = 0.98ac
  LAND TREATMENTS:
  A = 95.0%
  B = 0.0%
  C = 5.0%
  D = 0.0%
  REACH = 596.0ft
  HIGH EL. = 5810.00ft
  LOW EL. = 5805.00ft

* SUB–BASIN NL2
  AREA = 1.00ac
  LAND TREATMENT:
  A = 95.0%
  B = 0.0%
  C = 5.0%
  D = 0.0%
  REACH = 577.0ft
  HIGH EL. = 5810.00ft
  LOW EL. = 5804.00ft

## CALCULATIONS

* SUB–BASIN NL1
  Q(100yr–6hr) = 1.07cfs
  Q(100yr–24hr) = 1.07cfs
  RUNOFF Vol.(100yr–6hr) = 0.037ac–ft
  RUNOFF Vol.(100yr–24hr) = 0.037ac–ft
  TP(100yr–6hr) = 1.565hr
  TP(100yr–24hr) = 1.550hr

* SUB–BASIN NL2
  Q(100yr–6hr) = 1.27cfs
  Q(100yr–24hr) = 1.26cfs
  RUNOFF Vol.(100yr–6hr) = 0.039ac–ft
  RUNOFF Vol.(100yr–24hr) = 0.039ac–ft
  TP(100yr–6hr) = 1.532hr
  TP(100yr–24hr) = 1.550hr

## NOTES

AS SHOWN ON THE VICINITY MAP, THE SITE IS LOCATED DIRECTLY NORTH OF THE DOUBLE EAGLE II AIRPORT. THERE IS CURRENTLY AN EXISTING LIFT STATION AND WET WELL JUST NORTH OF THE FUTURE UNDEVELOPED SITE. ACCORDING TO THE GEOTECHNICAL ENGINEERING SERVICES REPORT, JOB NO. 1–20721 "WATER SUPPLY AND TRANSMISSION LINE WASTEWATER COLLECTION AND TRANSMISSION LINE" THE SOIL IN THE AREA IS BEST DESCRIBED AS SILTY SAND.

AS SHOWN BY PANEL 94 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY F.E.M.A. FOR BERNALILLO COUNTY, NEW MEXICO DATED SEPTEMBER 20, 1996, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

THE GRADING PLAN SHOWS: 1) EXISTING GRADES INDICATED BY CONTOURS AT 1.0' INTERVAL AS SHOWN FROM THE TOPOGRAPHIC SURVEY PROVIDED BY MOLZEN–CORBIN & ASSOCIATES AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, 2) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1.0' INTERVALS, 3) THE LIMIT AND CHARACTER OF EXISTING IMPROVEMENTS, 4) THE LIMIT AND CHARACTER OF PROPOSED IMPROVEMENTS, AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

THE PROPOSED DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF A FUTURE WASTE WATER LIFT STATION TO PROVIDE SERVICE FOR THE EXISTING AND FUTURE DEVELOPMENT OF THE HANGAR AREA. CURRENTLY THE SITE IS FAIRLY FLAT WITH NATURAL VEGETATION AND GENERALLY DRAINS FROM SOUTHWEST TO NORTHEAST IN A EXISTING ARROYO. FLOWS ARE COLLECTED IN A NATURAL PLAYA LOCATED DIRECTLY SOUTH OF PASEO DEL VOLCAN. REFER TO THE DOUBLE EAGLE II DRAINAGE MASTER PLAN, EXISTING CONDITIONS, FOR CONTRIBUTING FLOWS TO THE NATURAL PLAYA, LABELED "SBP1".

PROPOSED DEVELOPMENT GRADING WILL CONTINUE TO ALLOW ON SITE FLOWS TO DRAIN IN A NORTHEASTERLY DIRECTION. A TEMPORARY RETENTION POND WILL BE BUILT AT THE EAST END OF THE SITE, CAPTURING ALL ON SITE FLOWS, AS WELL AS SOME OFF SITE FLOWS FROM THE SOUTHWEST AS SHOWN ON SHEET C–4. THIS POND IS GRADED WITH 3:1 SIDE SLOPES AND HAS A CAPACITY OF 0.12ac–ft. FLOWS CONTRIBUTING TO THE POND TOTAL 0.09ac–ft FOR THE 100yr–24hr STORM EVENT, FLOWING FROM SUB–BASINS NB1, NB2, NB3 & NB4.

THE CALCULATIONS SHOWN FOR BOTH EXISTING AND FUTURE CONDITIONS ANALYZE BOTH THE 100yr–24hr AND THE 100yr–6hr STORM EVENT. THE PROCEDURE FOR 40–ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY, 1993 IN CONJUNCTION WITH ARID–LANDS HYDROLOGIC MODEL "AHYMO–97" COMPUTER PROGRAM, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND THE VOLUME OF RUNOFF GENERATED BY THIS DEVELOPMENT.

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CADNL105 1=1 10/24/03

AS BUILT INFORMATION
CONTRACTOR
NOTED BY DATE
STAKED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
REMARKS:
CONSTRUCTED BY DATE
MICRO–FILM INFORMATION
RECORDED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

SEAL

JOHN M. PROVINE NEW MEXICO 10997 REGISTERED PROFESSIONAL ENGINEER
10/24/03

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |
| | | DESIGNED BY JMP, RDG | DATE 10/24/03 |
| | | DRAWN BY RDG | DATE 10/24/03 |
| | | CHECKED BY JMP | DATE 10/24/03 |

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MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS

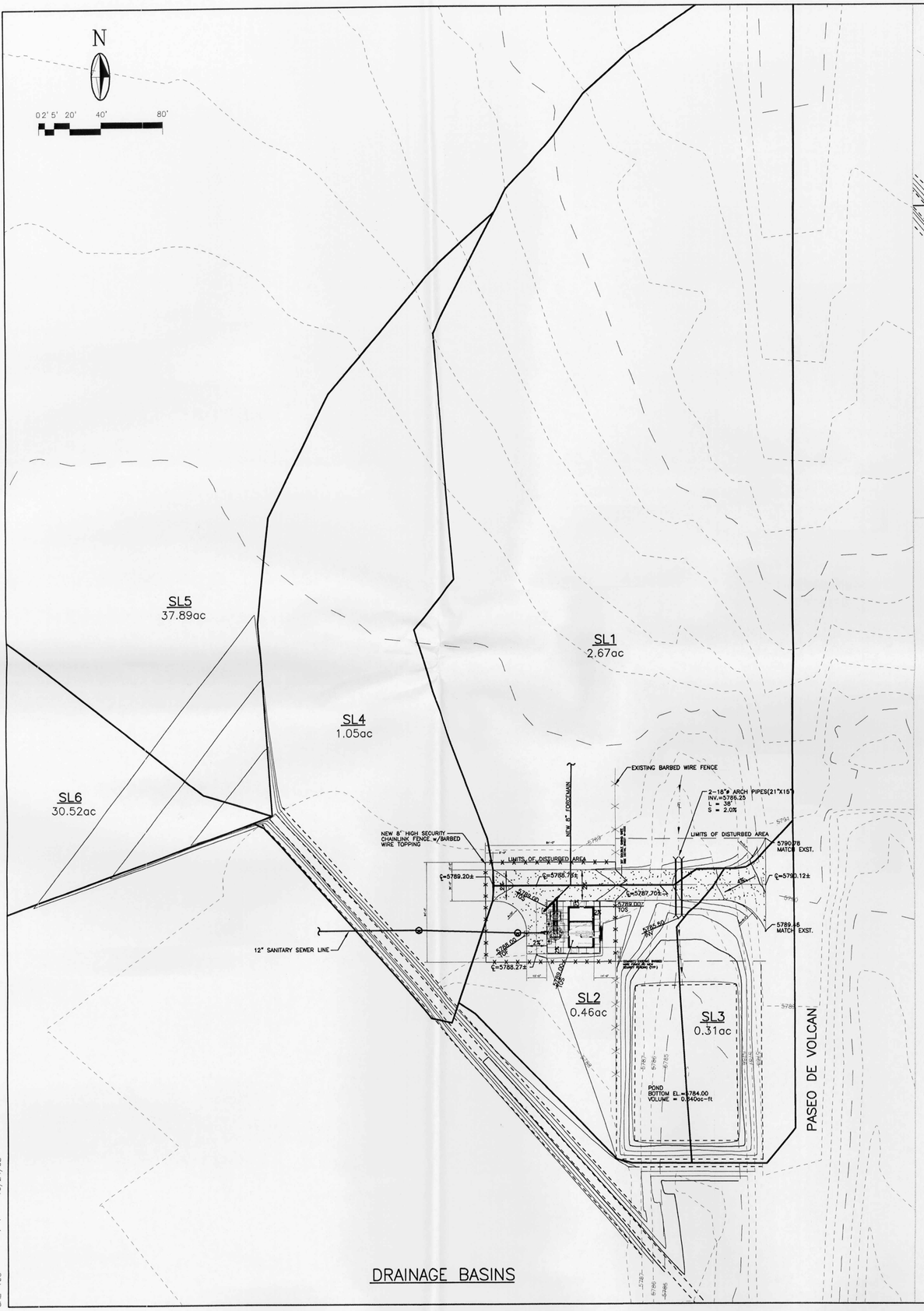
CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

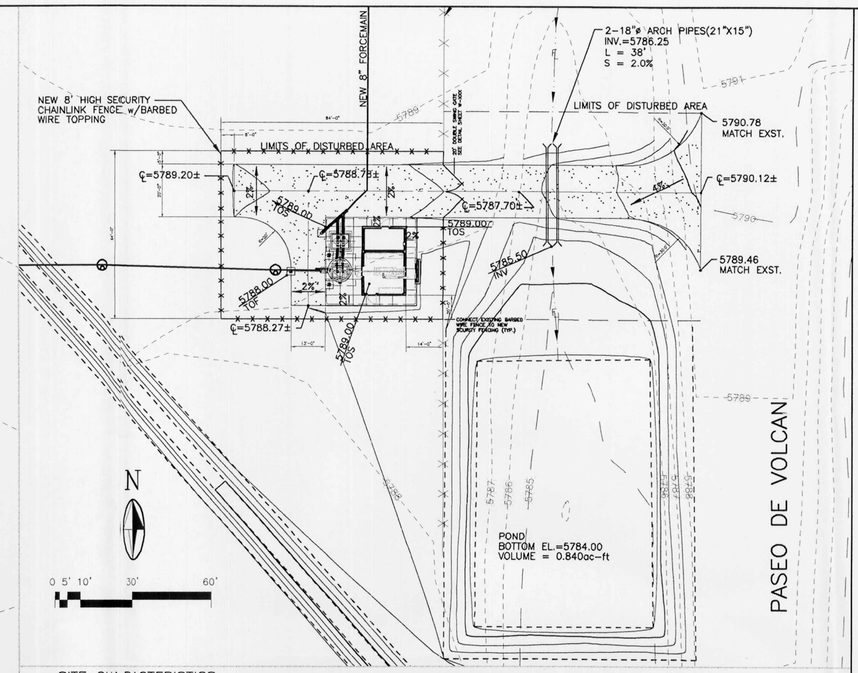
# NORTH LIFT STATION
# GRADING AND DRAINAGE PLAN
# EXISTING CONDITIONS

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

City Project No. | Zone Map No. | Sheet 4 Of 10




DRAINAGE BASINS




GRADING PLAN

## LEGEND

- EXISTING CONTOUR (1' CONTOUR INTERVAL)
- NEW CONTOUR
- NEW TOPO SPOT ELEVATION
- ACCESS ROAD GRAVEL SURFACE
- LIMITS OF DISTURBED AREA
- NEW CHAINLINK FENCE
- SUB-BASIN BOUNDARIES

## SITE CHARACTERISTICS

* 100 YEAR RAINFALL TABLE
  - 100yr - 1hr = 1.87in
  - 100yr - 6hr = 2.20in
  - 100yr - 24hr = 2.66in
* SUB-BASIN SL1
  - AREA = 2.67ac
  - LAND TREATMENT:
  - A = 90.0%
  - B = 0.0%
  - C = 10.0%
  - D = 0.0%
  - REACH = 621.0ft
  - HIGH EL. = 5801.00ft
  - LOW EL. = 5787.00ft
* SUB-BASIN SL2
  - AREA = 0.46ac
  - LAND TREATMENT:
  - A = 0.0%
  - B = 50.0%
  - C = 0.0%
  - D = 50.0%
  - REACH = 130.0ft
  - HIGH EL. = 5789.00ft
  - LOW EL. = 5784.00ft
* SUB-BASIN SL3
  - AREA = 0.31ac
  - LAND TREATMENT:
  - A = 0.0%
  - B = 20.0%
  - C = 50.0%
  - D = 30.0%
  - REACH = 160.0ft
  - HIGH EL. = 5791.00ft
  - LOW EL. = 5784.00ft
* SUB-BASIN SL4
  - AREA = 1.05ac
  - LAND TREATMENT:
  - A = 90.0%
  - B = 10.0%
  - C = 0.0%
  - D = 0.0%
  - REACH = 540.0ft
  - HIGH EL. = 5793.00ft
  - LOW EL. = 5788.00ft
* SUB-BASIN SL5
  - AREA = 37.87ac
  - LAND TREATMENT:
  - A = 100.0%
  - B = 0.0%
  - C = 0.0%
  - D = 0.0%
  - REACH = 2163.0ft
  - HIGH EL. = 5793.00ft
  - LOW EL. = 5789.00ft
* SUB-BASIN SL6
  - AREA = 30.52ac
  - LAND TREATMENT:
  - A = 100.0%
  - B = 0.0%
  - C = 0.0%
  - D = 0.0%
  - REACH = 2652.0ft
  - HIGH EL. = 5796.00ft
  - LOW EL. = 5789.00ft

## CALCULATIONS

* SUB-BASIN SL1
  - Q(100yr-6yr) = 3.92cfs
  - Q(100yr-24yr) = 3.88cfs
  - RUNOFF Vol.(100yr-6hr) = 0.107ac-ft
  - RUNOFF Vol.(100yr-24hr) = 0.107ac-ft
  - TP(100yr-6hr) = 1.532hr
  - TP(100yr-24hr) = 1.500hr
* SUB-BASIN SL2
  - Q(100yr-6hr) = 1.47cfs
  - Q(100yr-24hr) = 1.44cfs
  - RUNOFF Vol.(100yr-6hr) = 0.049ac-ft
  - RUNOFF Vol.(100yr-24hr) = 0.058ac-ft
  - TP(100yr-6hr) = 1.499hr
  - TP(100yr-24hr) = 1.500hr
* SUB-BASIN SL3
  - Q(100yr-6hr) = 1.04cfs
  - Q(100yr-24hr) = 1.02cfs
  - RUNOFF Vol.(100yr-6hr) = 0.032ac-ft
  - RUNOFF Vol.(100yr-24hr) = 0.036ac-ft
  - TP(100yr-6hr) = 1.499hr
  - TP(100yr-24hr) = 1.500hr
* SUB-BASIN SL4
  - Q(100yr-6hr) = 1.33cfs
  - Q(100yr-24hr) = 1.31cfs
  - RUNOFF Vol.(100yr-6hr) = 0.041ac-ft
  - RUNOFF Vol.(100yr-24hr) = 0.041ac-ft
  - TP(100yr-6hr) = 1.532hr
  - TP(100yr-24hr) = 1.550hr
* SUB-BASIN SL5
  - Q(100yr-6hr) = 5.39cfs
  - Q(100yr-24hr) = 5.35cfs
  - RUNOFF Vol.(100yr-6hr) = 1.38ac-ft
  - RUNOFF Vol.(100yr-24hr) = 1.39ac-ft
  - TP(100yr-6hr) = 2.731hr
  - TP(100yr-24hr) = 2.700hr
* SUB-BASIN SL6
  - Q(100yr-6hr) = 4.22cfs
  - Q(100yr-24hr) = 4.19cfs
  - RUNOFF Vol.(100yr-6hr) = 1.11ac-ft
  - RUNOFF Vol.(100yr-24hr) = 1.12ac-ft
  - TP(100yr-6hr) = 2.764hr
  - TP(100yr-24hr) = 2.750hr
* COMBINED FLOWS TO POND
  - Q(100yr-6hr) = 6.37cfs
  - Q(100yr-24hr) = 6.35cfs
  - RUNOFF Vol.(100yr-6hr) = 0.189ac-ft
  - RUNOFF Vol.(100yr-24hr) = 0.201ac-ft
  - TP(100yr-6hr) = 1.499hr
  - TP(100yr-24hr) = 1.500hr

## POND CALCULATIONS

VOLUME = 36590.55 CF>0.840ac-ft
LENGTH = 120.0ft
WIDTH = 95.0ft
DEPTH = 4.0ft
BOTTOM EL = 5784.0ft

## PIPE CALCULATIONS (1 PIPE)

TYPE = 21"x15" CMP ARCH PIPE
FLOWRATE = 9.66cfs
LENGTH = 38ft
SLOPE = 2.0%
MANNING'S N = 0.0200

AS BUILT INFORMATION

| | | DATE |
|---|---|---|
| CONTRACTOR | | |
| WORK STAKED BY | | |
| INSPECTOR'S ACCEPTANCE BY | | |
| AS-BUILTS VERIFICATION BY | | |
| DRAWINGS CORRECTED BY | | |

MICRO-FILM INFORMATION

RECORDED BY DATE NO.

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES BY DATE NO.

SEAL

JOHN M. PROVINE 10997 REGISTERED PROFESSIONAL ENGINEER NEW MEXICO

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | |
| DESIGNED BY | JMP, RDG | DATE | 10/24/03 |
| DRAWN BY | RDG | DATE | 10/24/03 |
| CHECKED BY | JMP | DATE | 10/24/03 |

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ENGINEERS/ARCHITECTS/PLANNERS

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# SOUTH LIFT STATION
# GRADING AND DRAINAGE PLAN
# FUTURE CONDITIONS

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

| City Project No. | Zone Map No. | Sheet | Of |
|---|---|---|---|
| | | 5 | 7 |

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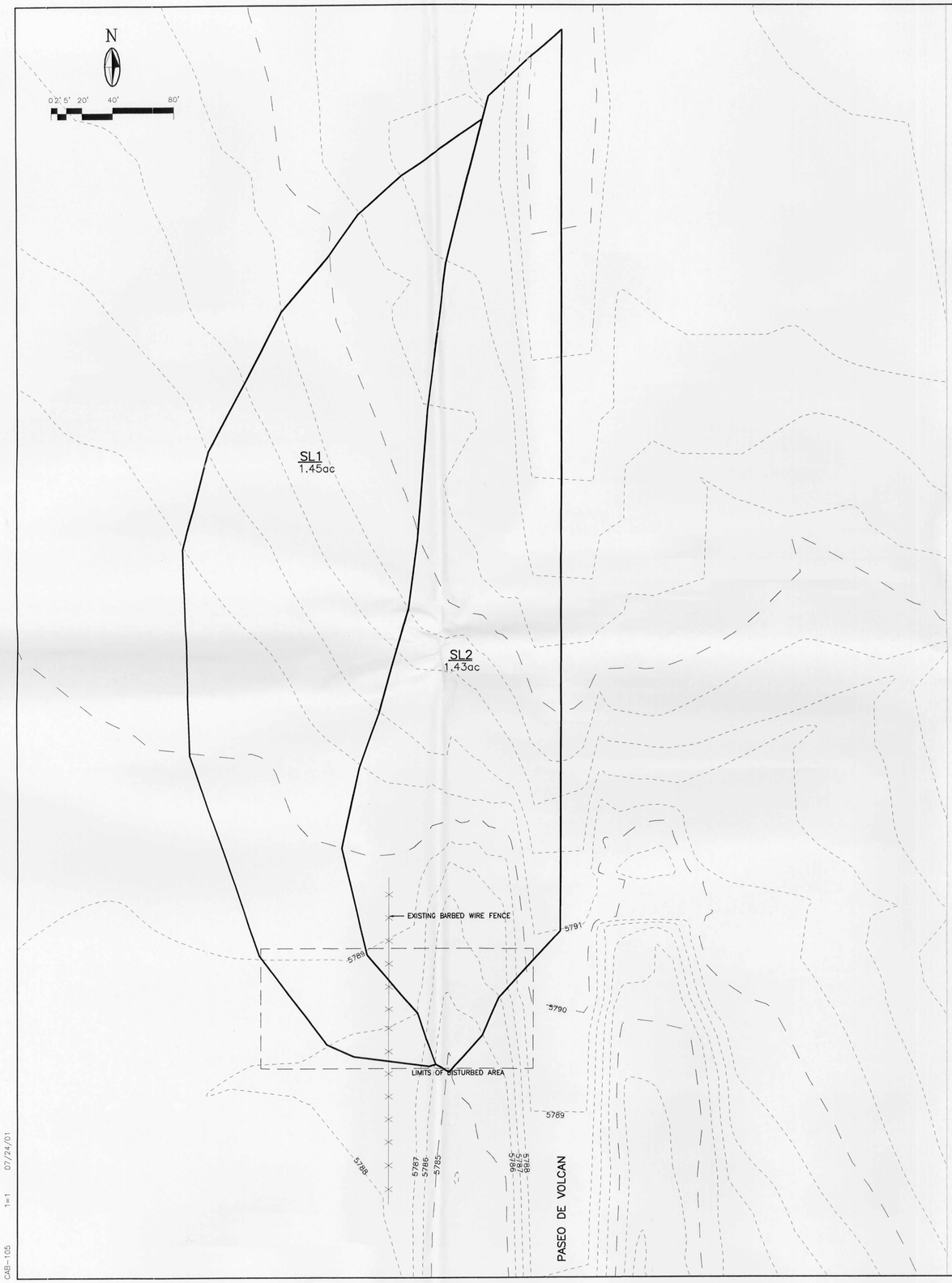



## LEGEND

- EXISTING CONTOUR (1' CONTOUR INTERVAL) — 5927.00 —
- LIMITS OF FUTURE DISTURBED AREA
- EXISTING SUB-BASIN BOUNDARIES

## SITE CHARACTERISTICS

* 100 YEAR RAINFALL TABLE
  100yr – 1hr = 1.87in
  100yr – 6hr = 2.20in
  100yr – 24hr = 2.66in

* SUB-BASIN SL1
  AREA = 1.45ac
  LAND TREATMENT:
  A = 0.0%
  B = 2.0%
  C = 5.0%
  D = 95.0%
  REACH = 655.0ft
  HIGH EL. = 5797.00ft
  LOW EL. = 5787.00ft

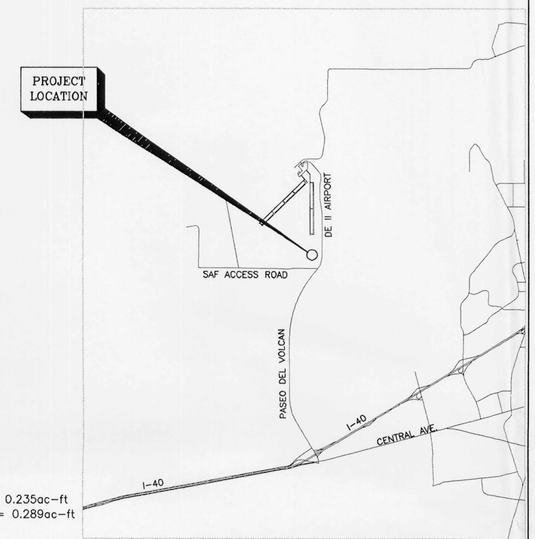
* SUB-BASIN SL2
  AREA = 1.43ac
  LAND TREATMENT:
  A = 0.0%
  B = 0.0%
  C = 10.0%
  D = 90.0%
  REACH = 667.0ft
  HIGH EL. = 5801.00ft
  LOW EL. = 5785.00ft

## CALCULATIONS

* SUB-BASIN SL1
  Q(100yr-6hr) = 6.17cfs
  Q(100yr-24hr) = 6.12cfs
  RUNOFF Vol.(100yr-6hr) = 0.235ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.289ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr

* SUB-BASIN SL2
  Q(100yr-6hr) = 6.03cfs
  Q(100yr-24hr) = 5.91cfs
  RUNOFF Vol.(100yr-6hr) = 0.219ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.268ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr

* TOTAL EXISTING FLOWS
  Q(100yr-6hr) = 12.20cfs
  Q(100yr-24hr) = 12.03cfs
  RUNOFF Vol.(100yr-6hr) = 0.454ac-ft
  RUNOFF Vol.(100yr-24hr) = 0.557ac-ft
  TP(100yr-6hr) = 1.499hr
  TP(100yr-24hr) = 1.500hr




VICINITY MAP

## NOTES

AS SHOWN ON THE VICINITY MAP, THE SITE IS LOCATED NORTH OF THE SAF ACCESS ROAD ON PASEO DEL VOLCAN. THE SITE IS CURRENTLY UNDEVELOPED AND ACCORDING TO THE GEOTECHNICAL ENGINEERING SERVICES REPORT, JOB NO. 1-20721 "WATER SUPPLY AND TRANSMISSION LINE WASTEWATER COLLECTION AND TRANSMISSION LINE" THE SOIL IN THE AREA IS BEST DESCRIBED AS SILTY SAND.

AS SHOWN BY PANEL 94 OF 825 OF THE NATIONAL FLOOD INSURANCE PROGRAM FLOOD INSURANCE RATE MAPS PUBLISHED BY F.E.M.A. FOR BERNALILLO COUNTY, NEW MEXICO DATED SEPTEMBER 20, 1996, THIS SITE DOES NOT LIE WITHIN A DESIGNATED FLOOD HAZARD ZONE.

THE GRADING PLAN SHOWS: 1) EXISTING GRADES INDICATED BY CONTOURS AT 1.0' INTERVAL AS SHOWN FROM THE TOPOGRAPHIC SURVEY PROVIDED BY MOLZEN-CORBIN & ASSOCIATES AND THE ALBUQUERQUE METROPOLITAN ARROYO FLOOD CONTROL AUTHORITY, 2) PROPOSED GRADES INDICATED BY SPOT ELEVATIONS AND CONTOURS AT 1.0' INTERVALS, 3) THE LIMIT AND CHARACTER OF THE EXISTING IMPROVEMENTS, 4) THE LIMIT AND CHARACTER OF THE PROPOSED IMPROVEMENTS, AND 5) CONTINUITY BETWEEN EXISTING AND PROPOSED GRADES.

THE PROPOSED DEVELOPMENT CONSISTS OF THE CONSTRUCTION OF A FUTURE WASTE WATER LIFT STATION TO PROVIDE SERVICE FOR THE FUTURE DEVELOPMENT OF ECLIPSE AVIATION AND THE AEROSPACE TECHNOLOGY PARK. CURRENTLY THE SITE IS FAIRLY FLAT WITH NATURAL VEGETATION AND GENERALLY DRAINS FROM NORTH TO SOUTH. THERE IS A NATUIRAL FLOW PATH LOCATED BETWEEN PASEO DEL VOLCAN AND THE PROPOSED LIFT STATION THAT ALLOWS FLOWS FROM THE EXISTING UPSTREAM SUB-BASINS SL1 & SL2 TO DRAIN SOUTH TO THE EXISTING MIREHAVEN "A" ARROYO. REFEIR TO THE DOUBLE EAGLE II DRAINAGE MASTER PLAN, EXISTING CONDITIONS, FOR EXISTING FLOWS CONTRIBUTING TO TIHE MIREHAVEN "A" ARROYO.

PROPPOSED DEVELOPMENT GRADING WILL CONTINUE TO ALLOW EXISTING FLOWS FROM SUB-BASIN SL1 TO DRAIN FROM NORTH TO SOUTH UNDER THE LIFT STATION ACCESS ROAD THRU TWO 18" DIAMETER CULVERTS TO A TEMPORARY RETENTION POND LOCATED SOUTH OF THE FUTURE LIFT STATION. THIS POND WILL CAPTURE ALL ON SITE FLOWS AS WELL. AS ALL EXISTING FLOWS DIRECTLY NORTH OF THE SITE. IN THE FUTURE THIS POND CAN BE CONVERTED FROM RETENTION TO DETENTION, OR MAY TOTALLY BE ELIMINATED TO ALLOW FLOWS TO ENTER THE DRAINAGE SYSTEM AS SHOWN IN THE DOUBLE EAGLE II DRAINAGE MASTER PLAN, ULTIMATE CONDITIONS. THIS POND IS GRADED WITH 3:1 SIDE SLOPES AND HAS A CAPACITY OF 0.84ac-ft. FLOWS CONTRIBUTING TO THE POND TOTAL 0.20ac-ft FOR THE 100yr-24hr STORM EVENT, FLOWING FROM SUB-BASINS SL1, SL2 & SL3. A SMALL CHANNEL WITH A 5.0' BOTTOM WIDTH, 3:1 SIDE SLOPES, 3.0ft DEEP, SHOULD BE GRADED TO HELP DIVERT EXISTING FLOWS FROM SUB-BASINS SL4, SL5 & SL6, THESE SUB-BASINS ARE LOCATED NORTHWEST OF THE SITE AND CONTRIBUTE A TOTAL FLOW OF 11cfs.

CALCULATIONS SHOWN FOR BOTH EXISTING AND FUTURE CONDITIONS ANALYZE BOTH THE 100yr-24hr AND THE 100yr-6hr STORM EVENT. THE PROCEDURE FOR 40-ACRE AND SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2, HYDROLOGY PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, DATED JANUARY, 1993 IN CONJUNCTION WITH ARID-LANDS HYDROLOGIC MODEL "AHYMO-97" COMPUTER PROGRAM, HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND THE VOLUME OF RUNOFF GENERATED BY THIS DEVELOPMENT.

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

BENCH MARKS

AS BUILT INFORMATION
CONTRACTOR
WORK STAKED BY DATE
INSPECTOR'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
MAP MARKS CORRECTED BY DATE

MICRO-FILM INFORMATION
RECORDED BY DATE
NO.

SEAL
JOHN M. PROVINE NEW MEXICO (10997) REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | JMP 10/24/03 |
| | | DRAWN BY | RDG 10/24/03 |
| | | CHECKED BY | JMP 10/24/03 |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MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# SOUTH LIFT STATION GRADING AND DRAINAGE PLAN EXISTING CONDITIONS

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

City Project No. | Zone Map No. | Sheet 4 Of 7

CAB-105 1=1 07/24/01

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## KEYED NOTES

1. CONCRETE CUT-OFF WALL AT EDGE OF ACCESS ROAD (INSTALLED WITH 2" EXPOSED ABOVE GRADE) PER CITY OF ALBUQUERQUE STANDARD 2415, PLATE W-509
2. LIFT STATION NORTHEAST CORNER X=1478282.08, Y=1514414.92
3. LIFT STATION SOUTHEAST CORNER X=1478282.08, Y=1514380.17
4. LIFT STATION SOUTHWEST CORNER X=1478248.08, Y=1514380.17
5. LIFT STATION NORTHWEST CORNER X=1478248.08, Y=1514414.92
6. ALL DISTURBED AREAS, SHALL BE REVEGITATED AND RESTABILIZED IN ACCORDANCE WITH THE SPECIFICATIONS
7. CONNECT NEW SECURITY FENCING TO EXISTING CHAINLINK FENCE X=1478225.89, Y=1514373.44
8. SOUTHWEST FENCE CORNER: X=1478226.31, Y=1514352.17
9. SOUTHEAST FENCE CORNER: X=1478310.68, Y=1514353.84
10. CONNECT NEW SECURITY FENCING TO EXISTING CHAINLINK FENCE X=1478310.68, Y=1514353.84

N

0 2' 5' 10' 20'

## BUILDING CRITERIA

THIS BUILDING HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE 1997 NEW MEXICO AND UNIFORM BUILDING CODES

| | |
|---|---|
| TYPE OF BUILDING CONSTRUCTION | TYPE II-N |
| ALLOWABLE SQUARE FOOTAGE | 18000 SQUARE FEET |
| TOTAL BUILDING SQUARE FOOTAGE | 379 SQUARE FEET |
| ALLOWABLE BUILDING HEIGHT | 55 FEET |
| ACTUAL BUILDING HEIGHT ABOVE FINISH GRADE | 14.67 FEET |
| OCCUPANCY GROUP | F1 – INDUSTRIAL OCCUPANCY |
| NFPA CLASSIFICATION | SPECIAL USE INDUSTRIAL, UNOCCUPIED |
| BUILDING USE | NONPOTABLE WATER LIFT STATION |
| UBC OCCUPANT LOAD (FOR EGRESS REQUIREMENTS) | 379 SQUARE FEET OCCUPIABLE AREA /300 SQUARE FEET PER OCCUPANT = 2 OCCUPANTS |
| 36" MINIMUM WIDTH EXITS REQUIRED | 1 |
| 36" WIDTH EXITS PROVIDED | 2 |
| PLUMBING FIXTURES | SAFETY SHOWER REQUIRED (FUTURE) |
| SEISMIC ZONE | 2B |
| DISTANCE FROM PROPERTY LINE: | >20 FEET |
| LIQUID SOLUTION (1) IS: | 18%-20% FERROUS CHLORIDE |
| LIQUID SOLUTION (2) IS: | 28%-43% FERRIC CHLORIDE |
| EXEMPT QUANTITY OF CHEMICALS IN CLOSED SYSTEM | < 500 GALLONS |
| QUANTITY OF CHEMICALS | < 500 GALLONS |

## LEGEND

- 5927.00 — EXISTING CONTOUR (1' CONTOUR INTERVAL)
- 5927.00 — NEW CONTOUR
- EL.=5927.14 — NEW TOPO SPOT ELEVATION
- ACCESS ROAD GRAVEL SURFACE

[1] ROADWAY CURVE LISTING
Included angle = 62-58-36
Radius = 15.00'
Tangent length = 9.19'
Arc length = 16.49'
Chord length = 15.67'
External secant = 2.59'
Mid ordinate = 2.21'
Degree of curve = 21-58-19

[2] ROADWAY CURVE LISTING
Included angle = 63-42-10
Radius = 15.00'
Tangent length = 9.32'
Arc length = 16.68'
Chord length = 15.83'
External secant = 2.66'
Mid ordinate = 2.26'
Degree of curve = 21-58-19

AUTHORIZED SIGNATURE



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ALBUQUERQUE, NM 87106
TEL: 505.242-5700
FAX: 505.242-0873
MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS

AS BUILT INFORMATION
CONTRACTOR
WORK STARTED BY DATE
INSPECTION'S ACCEPTANCE BY DATE
FIELD VERIFICATION BY DATE
DRAWINGS CORRECTED BY DATE
MICRO-FILM INFORMATION
PROCESSED BY DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES
NO. BY DATE

SEAL
JOHN M. PROVINE 10997 REGISTERED PROFESSIONAL ENGINEER NEW MEXICO

REMARKS BY
REVISIONS
DESIGN DATE 07/24/01 JMP
DATE 07/24/01 DKS
DATE 11/03/03 JMP
NO. DATE
DESIGNED BY
DRAWN BY
CHECKED BY

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# NORTH LIFT STATION UTILITY LAYOUT PLAN (FOR UTILITY DEVELOPMENT)

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

City Project No. | Zone Map No. | Sheet Of

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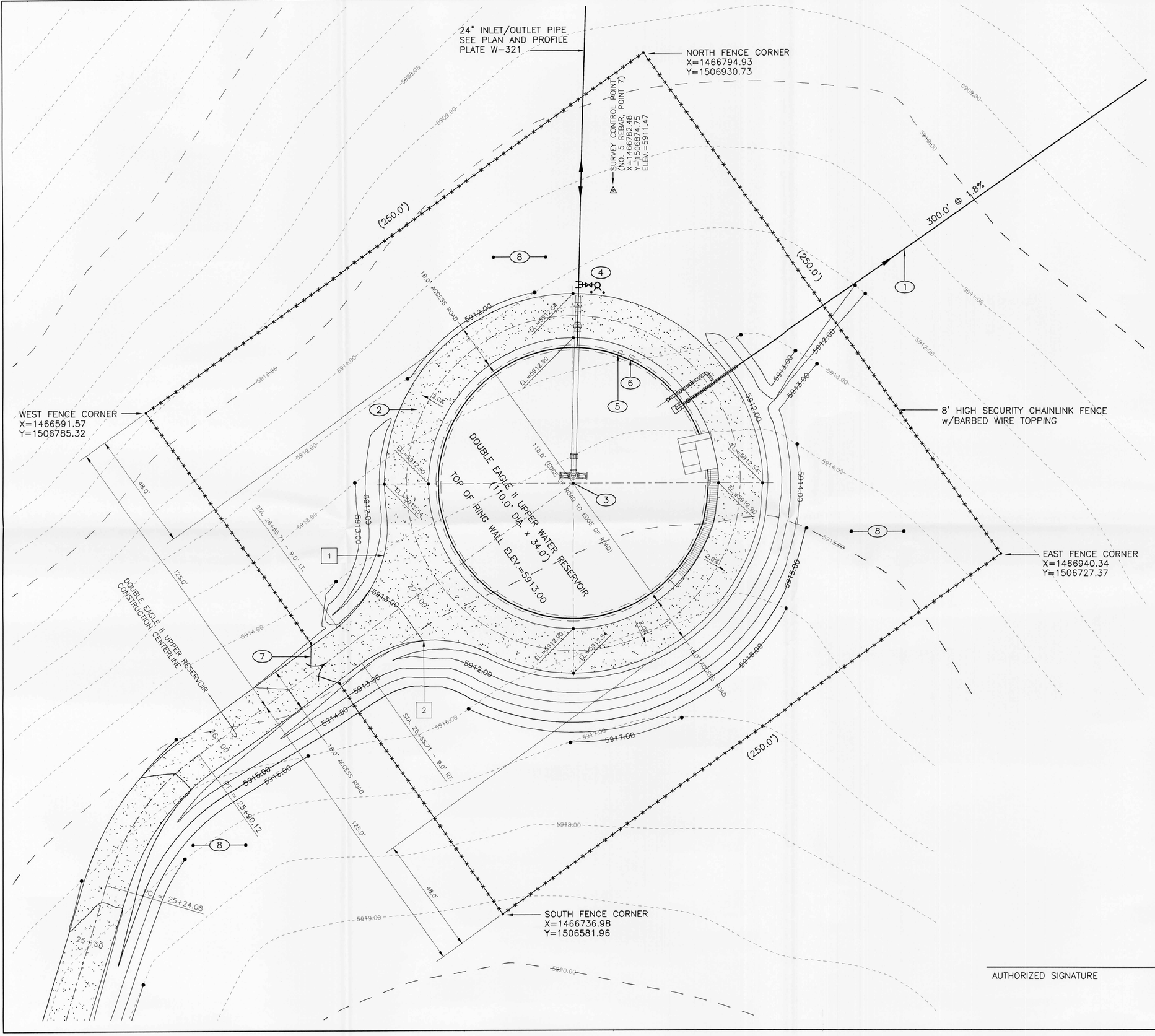


## LEGEND

- EXISTING CONTOUR (1' CONTOUR INTERVAL)
- NEW CONTOUR
- NEW TOPO SPOT ELEVATION
- NEW CHAINLINK FENCE
- SURVEY CONTROL POINT
- ACCESS ROAD GRAVEL SURFACE

## KEYED NOTES

1. 12" PVC OVERFLOW PIPE, 300.0' @ 1.8%
2. 18' WIDE ACCESS ROAD, 6" THICK GRAVEL SURFACE COURSE OVER 12" COMPACTED SUBGRADE
3. RESERVOIR CENTER POINT X=1466765.96, Y=1506756.34
4. FIRE HYDRANT ASSEMBLY W/BOLLARDS(1 EACH SIDE OF HYDRANT) SEE DETAIL, PLATE W-507, AND W-515
5. SAMPLE STATION, SEE DETAIL, PLATE W-209
6. RESERVOIR PRESSURE SENSOR BOX SEE DETAIL, PLATE W-209
7. 20' WIDE DOUBLE SWING GATE SEE DETAIL, PLATE W-516
8. ALL DISTURBED AREAS SHALL BE REVEGITATED AND RESTABILIZED IN ACCORDANCE WITH THE SPECIFICATIONS. SEE LANDSCAPE PLAN

1 ROADWAY CURVE LISTING

Included angle = 62-19-04
Radius = 50.00'
Tangent length = 30.23'
Arc length = 54.38'
Chord length = 51.74'
External secant = 8.43'
Mid ordinate = 7.21'
Degree of curve = 114-35-30

2 ROADWAY CURVE LISTING

Included angle = 62-19-04
Radius = 50.00'
Tangent length = 30.23'
Arc length = 54.38'
Chord length = 51.74'
External secant = 8.43'
Mid ordinate = 7.21'
Degree of curve = 114-35-30

N

0 2' 5' 10' 20' 40'

AUTHORIZED SIGNATURE


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TEL: 505.242-5700
FAX: 505.242-0673
MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS


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

SURVEY INFORMATION

FIELD NOTES

| NO. | BY | DATE |
|---|---|---|

SEAL

JOHN M. PROVINE
10997
NEW MEXICO
REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|

REVISIONS

DESIGN

DESIGNED BY JMP DATE 07/24/01
DRAWN BY DKS DATE 07/24/01
CHECKED BY JMP DATE 11/03/03

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# DOUBLE EAGLE II UPPER RESERVOIR UTILITY LAYOUT PLAN (FOR PLANNING REVIEW)

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

| City Project No. | Zone Map No. | Sheet | Of |
|---|---|---|---|

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PROJ 10001656

1 ROADWAY CURVE LISTING

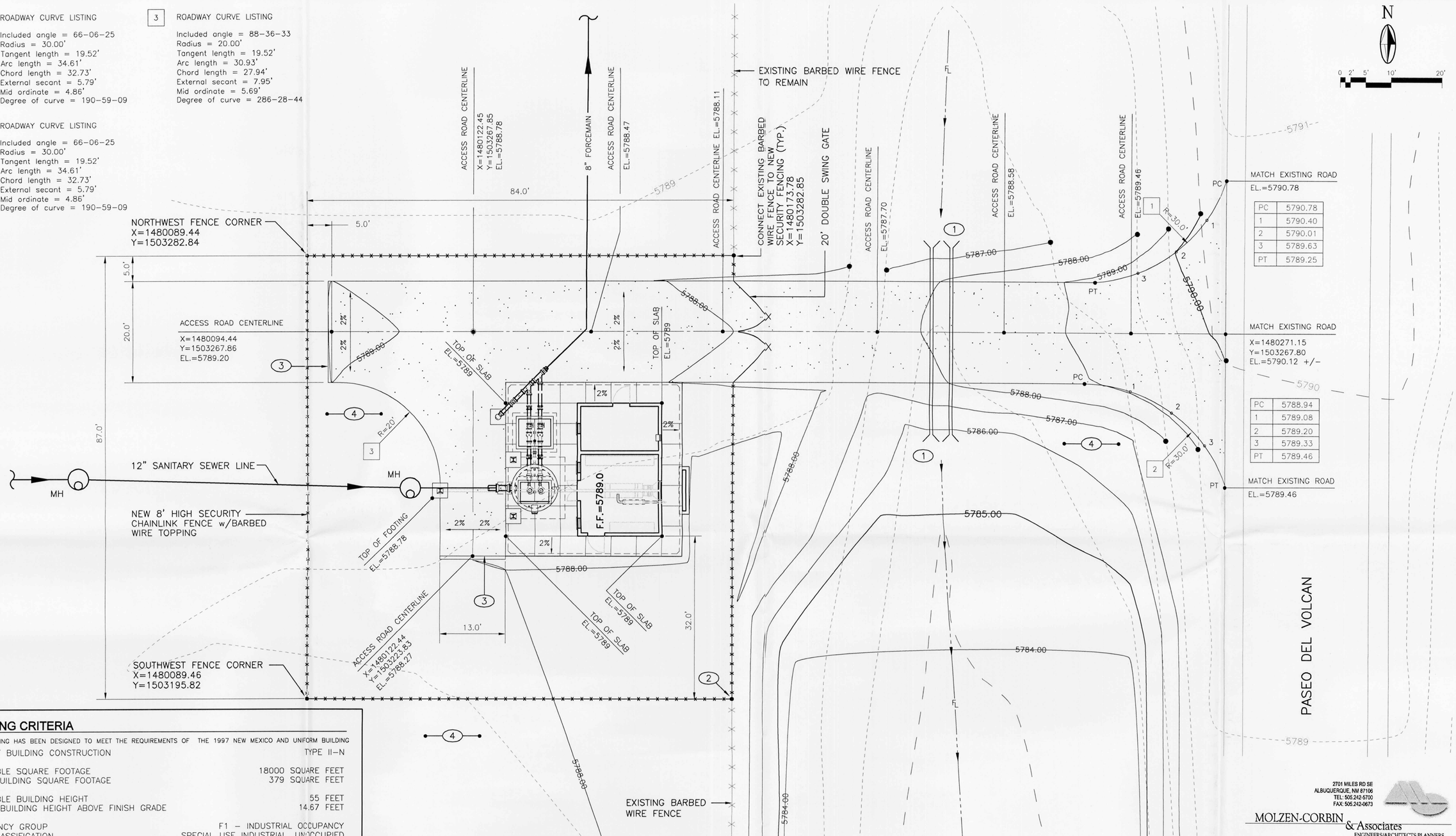
Included angle = 66-06-25
Radius = 30.00'
Tangent length = 19.52'
Arc length = 34.61'
Chord length = 32.73'
External secant = 5.79'
Mid ordinate = 4.86'
Degree of curve = 190-59-09

2 ROADWAY CURVE LISTING

Included angle = 66-06-25
Radius = 30.00'
Tangent length = 19.52'
Arc length = 34.61'
Chord length = 32.73'
External secant = 5.79'
Mid ordinate = 4.86'
Degree of curve = 190-59-09

3 ROADWAY CURVE LISTING

Included angle = 88-36-33
Radius = 20.00'
Tangent length = 19.52'
Arc length = 30.93'
Chord length = 27.94'
External secant = 7.95'
Mid ordinate = 5.69'
Degree of curve = 286-28-44




## BUILDING CRITERIA

THIS BUILDING HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE 1997 NEW MEXICO AND UNIFORM BUILDING CODES

| | |
|---|---|
| TYPE OF BUILDING CONSTRUCTION | TYPE II-N |
| ALLOWABLE SQUARE FOOTAGE | 18000 SQUARE FEET |
| TOTAL BUILDING SQUARE FOOTAGE | 379 SQUARE FEET |
| ALLOWABLE BUILDING HEIGHT | 55 FEET |
| ACTUAL BUILDING HEIGHT ABOVE FINISH GRADE | 14.67 FEET |
| OCCUPANCY GROUP | F1 - INDUSTRIAL OCCUPANCY |
| NFPA CLASSIFICATION | SPECIAL USE INDUSTRIAL, UNOCCUPIED |
| BUILDING USE | NONPOTABLE WATER LIFT STATION |
| UBC OCCUPANT LOAD | 379 SQUARE FEET OCCUPIABLE AREA |
| (FOR EGRESS REQUIREMENTS) | /300 SQUARE FEET PER OCCUPANT = 2 OCCUPANTS |
| 36" MINIMUM WIDTH EXITS REQUIRED | 1 |
| 36" WIDTH EXITS PROVIDED | 2 |
| PLUMBING FIXTURES | SAFETY SHOWER REQUIRED (FUTURE) |
| SEISMIC ZONE | 2B |
| DISTANCE FROM PROPERTY LINE: | >20 FEET |
| LIQUID SOLUTION (1) IS: | 18%-20% FERROUS CHLORIDE |
| LIQUID SOLUTION (2) IS: | 28%-43% FERRIC CHLORIDE |
| EXEMPT QUANTITY OF CHEMICALS IN CLOSED SYSTEM | < 500 GALLONS |
| QUANTITY OF CHEMICALS | < 500 GALLONS |

## LEGEND

- 5927.00 — EXISTING CONTOUR
- 5927.00 — NEW CONTOUR
- EL.=5927.14 — NEW TOPO SPOT ELEVATION
- ACCESS ROAD GRAVEL SURFACE
- NEW CHAINLINK FENCE

## KEYED NOTES

1. 2 - 18" DIAMETER CMP ARCH PIPES (21"x15")
   INV. IN=5786.25, INV. OUT=5785.5
   LENGTH=38' SLOPE=2.0%
2. CONNECT EXISTING BARBED WIRE FENCE TO NEW SECURITY FENCING (TYP.)
   X=1480173.59, Y=1503195.83
3. CONCRETE CUT-OFF WALL AT EDGE OF ACCESS ROAD (INSTALLED WITH 2" EXPOSED ABOVE GRADE) PER CITY OF ALBUQUERQUE STANDARD 2415
4. ALL DISTURBED AREAS, SHALL BE REVEGITATED AND RESTABILIZED IN ACCORDANCE WITH THE SPECIFICATIONS SEE LANDSCAPING PLAN

AUTHORIZED SIGNATURE

AS BUILT INFORMATION

CONTRACTOR
WORK STARTED BY — DATE
WORK COMPLETED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
DRAWINGS CORRECTED BY — DATE
MICRO-FILM INFORMATION
RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION
FIELD NOTES

| NO. | BY | DATE |
|---|---|---|

SEAL

JOHN M. PROVINE NEW MEXICO 10997 REGISTERED PROFESSIONAL ENGINEER

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| | | REVISIONS | |
| | | DESIGN | |
| | | DESIGNED BY JMP | DATE 07/24/01 |
| | | DRAWN BY DKS | DATE 07/24/01 |
| | | CHECKED BY JMP | DATE 11/03/03 |


2701 MILES RD SE
ALBUQUERQUE, NM 87106
TEL: 505.242-5700
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MOLZEN-CORBIN & Associates
ENGINEERS/ARCHITECTS/PLANNERS


CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# SOUTH LIFT STATION UTILITY LAYOUT PLAN

(FOR PLANNING REVIEW)

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

City Project No. | Zone Map No. | Sheet Of

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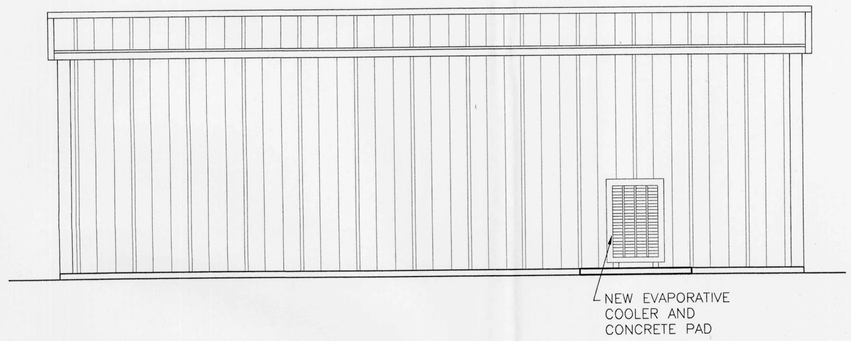
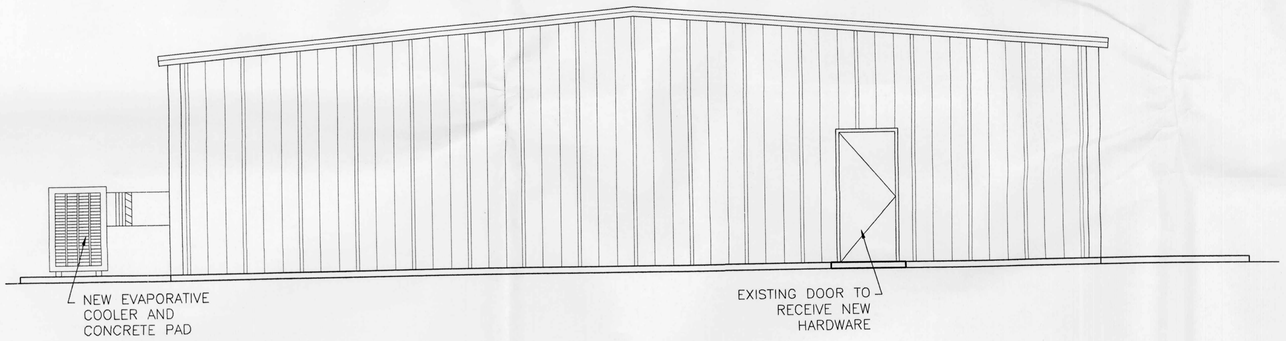
WEST ELEVATION

0 2' 4' 8'



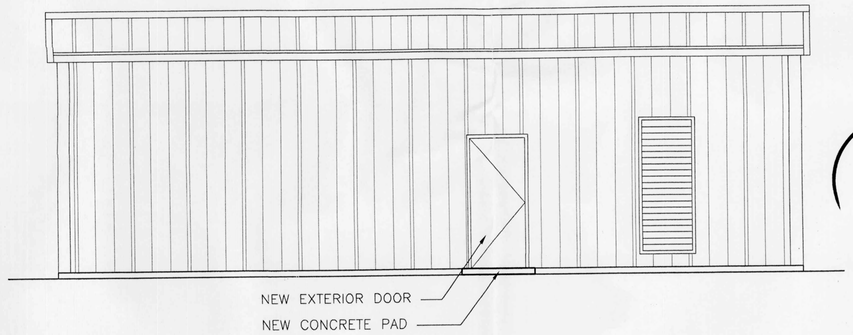

SOUTH ELEVATION

0 2' 4' 8'




EAST ELEVATION

0 2' 4' 8'




NORTH ELEVATION

0 2' 4' 8'

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

SURVEY INFORMATION

FIELD NOTES

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SEAL

STATE OF NEW MEXICO
JOHN QUINN
NO. 1984
REGISTERED ARCHITECT
11/10/01

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REVISIONS

DESIGN

DESIGNED BY JQP DATE 07/24/01
DRAWN BY NRH DATE 07/24/01

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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# DOUBLE EAGLE II UPPER PUMP STATION EXTERIOR BUILDING ELEVATIONS (EXISTING BUILDING)

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

| City Project No. | Zone Map No. | Sheet 10 | Of 10 |
|---|---|---|---|

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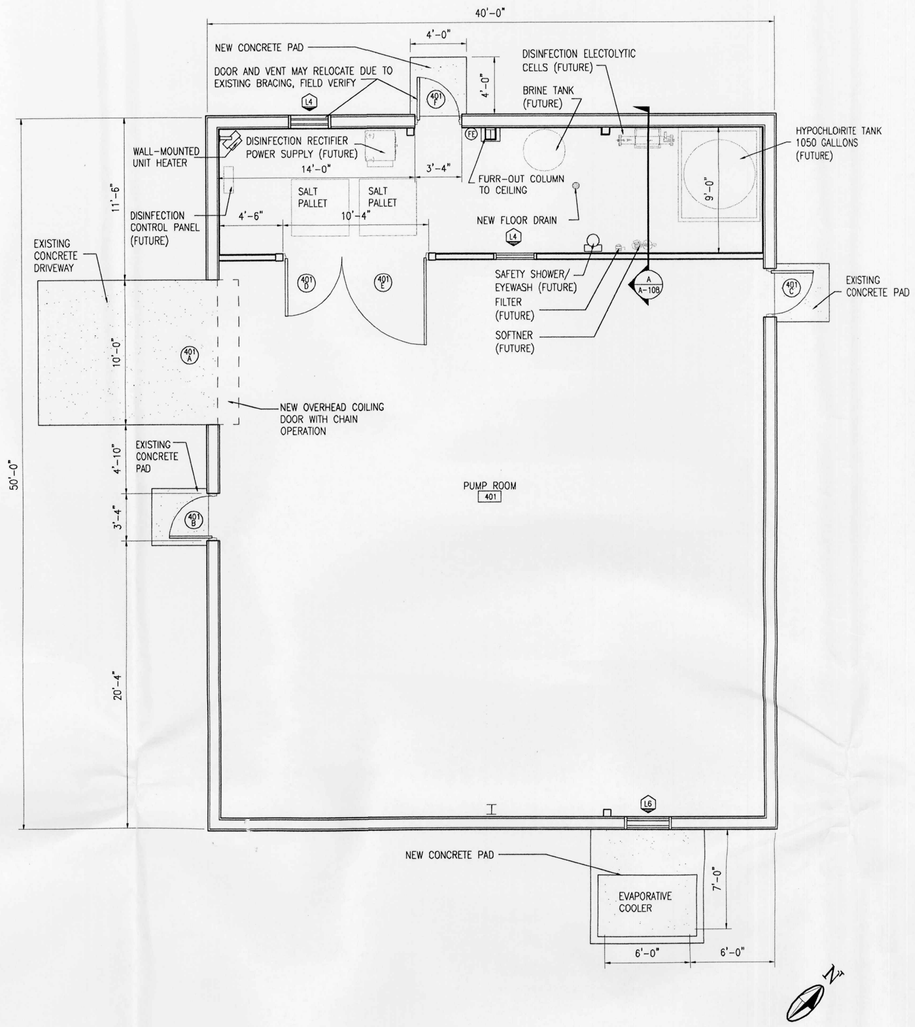


## DOUBLE EAGLE II UPPER PUMP STATION - FLOOR PLAN

## BUILDING CRITERIA

THIS BUILDING HAS BEEN DESIGNED TO MEET THE REQUIREMENTS OF THE 1997 NEW MEXICO AND UNIFORM BUILDING CODES

| | |
|---|---|
| TYPE OF BUILDING CONSTRUCTION | TYPE II–N, EXISTING |
| ALLOWABLE SQUARE FOOTAGE | 18000 SQUARE FEET |
| TOTAL BUILDING SQUARE FOOTAGE | 2000 SQUARE FEET, EXISTING |
| ALLOWABLE BUILDING HEIGHT | 55 FEET |
| ACTUAL BUILDING HEIGHT ABOVE FINISH GRADE | 13.83 FEET, EXISTING |
| OCCUPANCY GROUP | F2 – INDUSTRIAL OCCUPANCY, EXISTING |
| NFPA CLASSIFICATION | SPECIAL USE INDUSTRIAL, UNOCCUPIED |
| BUILDING USE | NONPOTABLE WATER PUMP STATION |
| UBC OCCUPANT LOAD (FOR EGRESS REQUIREMENTS) | 2000 SQUARE FEET OCCUPIABLE AREA /300 SQUARE FEET PER OCCUPANT = 7 OCCUPANTS |
| 36" MINIMUM WIDTH EXITS REQUIRED | 1 |
| 36" WIDTH EXITS PROVIDED | 1 |
| PLUMBING FIXTURES | SAFETY SHOWER/EYEWASH (FUTURE)) |
| SEISMIC ZONE | 2B |
| DISTANCE FROM PROPERTY LINE: | >20 FEET |
| QUANTITY OF CHEMICALS STORED IN CLOSED SYSTEM | 1050 GALLONS, FUTURE |
| EXEMPT QUANTITY OF CHEMICALS | ALL |
| LIQUID SOLUTION IS: | 0.8% SODIUM HYPOCHLORITE (NaOCl) AND 99.2% WATER |
| CLASSIFICATION OF NaOCl: | NOT LISTED PER 1997 UFC APPENDIX VI–A AND JT BAKER RATING SYSTEM IN WHICH 0.8% NaOCl SOLUTION IS LABELED FOR GENERAL STORAGE UNDER JT BAKER MATERIAL SAFETY DATA SYSTEM. OWNER WILL FOLLOW GENERAL STORAGE GUIDELINES STATED ON THE MATERIAL SAFETY DATA SHEETS. BUILDING IS DESIGNED TO COMPLY WITH THOSE NATIONAL HANDLING GUIDELINES. |

## GENERAL NOTES

A. LINEAR DIMENSIONS SHOWN ARE TO FACE OF ROUGH OPENINGS.

B. SEAL INTERSECTIONS AND JOINTS OF ALL MATERIALS AS SCHEDULED.

C. SEE STRUCTURAL FOR FLOOR DEPRESSIONS, PADS, GRATINGS, COVERS, HATCHES, CURBS, AND SIMILAR

## LEGEND

(#) DOOR NUMBER, SEE DOOR SCHEDULE A–601

L# LOUVER TYPE, SEE A–601

(FE) FIRE EXTINGUISHER, MOUNT AT 36" ABOVE FINISH FLOOR

AS BUILT INFORMATION

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

MICRO–FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

SURVEY INFORMATION

FIELD NOTES

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SEAL

JOHN QUINN — 13866 — REGISTERED ARCHITECT — STATE OF NEW MEXICO — 8/10/01

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| | | DESIGN | |
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| | 07/24/01 | | NRH |
| | 07/24/01 | | JQP |

DESIGNED BY JQP
DRAWN BY NRH
CHECKED BY JQP

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PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# DOUBLE EAGLE II UPPER PUMP STATION FLOOR PLAN (EXISTING BUILDING)

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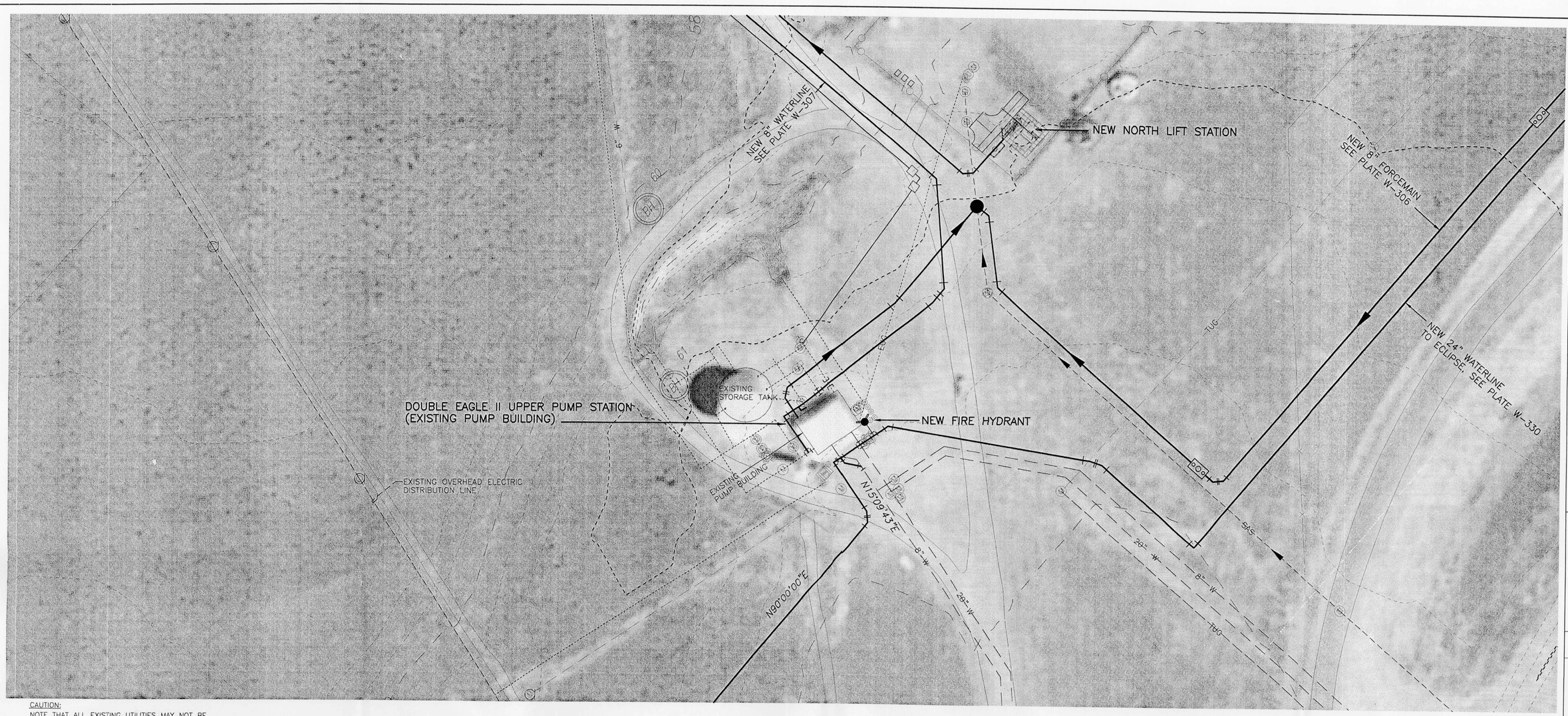


CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN HEREON AND THAT ANY EXISTING UTILITIES THAT ARE SHOWN ARE IN APPROXIMATE LOCATION ONLY. IT SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR TO CONTACT ALL THE UTILITY OWNERS AND TO CONDUCT ALL NECESSARY FIELD INVESTIGATIONS PRIOR TO ANY EXCAVATION TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

## GENERAL NOTES

1. THIS SITE IS ZONED FOR SU-1, AIRPORT
2. SITE DISTURBANCE WILL BE MINIMIZED. AT THE ONSET OF CONSTRUCTION A FENCE SHALL BE ERECTED AROUND THE PERIMETER OF THE SITE TO ESTABLISH THE LIMITS OF DISTURBANCE. VEHICLES AND CONSTRUCTION OPERATIONS ASSOCIATED WITH THIS PROJECT SHALL BE RESTRICTED TO THE FENCED AREA:
   NO DISTURBANCE SHALL OCCUR OUTSIDE THE FENCE.
   VEHICLES NOT DIRECTLY ASSOCIATED WITH THE CONSTRUCTION OF THIS PROJECT WILL NOT BE PERMITTED ON THE SITE.
3. THE INTENT OF LANDSCAPING AT THIS SITE FOR THIS UTILITY CONSTRUCTION PROJECT IS TO RESTORE DISTURBED AREA TRUE TO ITS ORIGINAL CONDITION BY THE INSTALLATION OF RECLAMATION SEEDING. RECLAMATION SEEDING MIX SHALL BE NATIVE GRASSES, FORBS, AND WOODY PERENNIALS AS RECOMMENDED BY THE CITY OF ALBUQUERQUE OPEN SPACE DIVISION. INTRODUCTION OF NON-NATIVE AND OPPORTUNISTIC SPECIES WILL BE PROHIBITED.
4. ACCESS DRIVES AND CIRCULATION AREAS WILL BE COVERED WITH GRAY, COMPACTED, CRUSHED GRAVEL TO A DEPTH OF SIX INCHES.

N

0 10' 20' 50' 100'

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SURVEY INFORMATION
FIELD NOTES

| NO. | BY | DATE |
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BENCH MARKS

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.

SEAL

JOHN M. PROVINE
NEW MEXICO
10997
REGISTERED PROFESSIONAL ENGINEER

| NO. | DATE | REMARKS | BY |
|---|---|---|---|
| | | REVISIONS | |
| | | DESIGN | JMP |
| | | DESIGNED BY | JMP |
| | | DRAWN BY | DKS |
| | | CHECKED BY | JMP |

| | | |
|---|---|---|
| | DATE | 07/24/01 |
| | DATE | 07/24/01 |
| | DATE | 11/03/03 |

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# DOUBLE EAGLE II UPPER PUMP STATION (EXISTING BUILDING) LOCATION MAP

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

| City Project No. | Zone Map No. | Sheet | Of |
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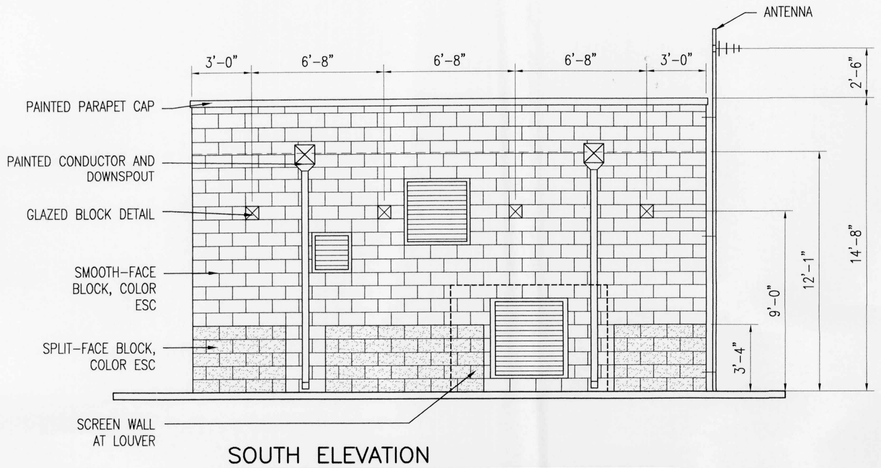
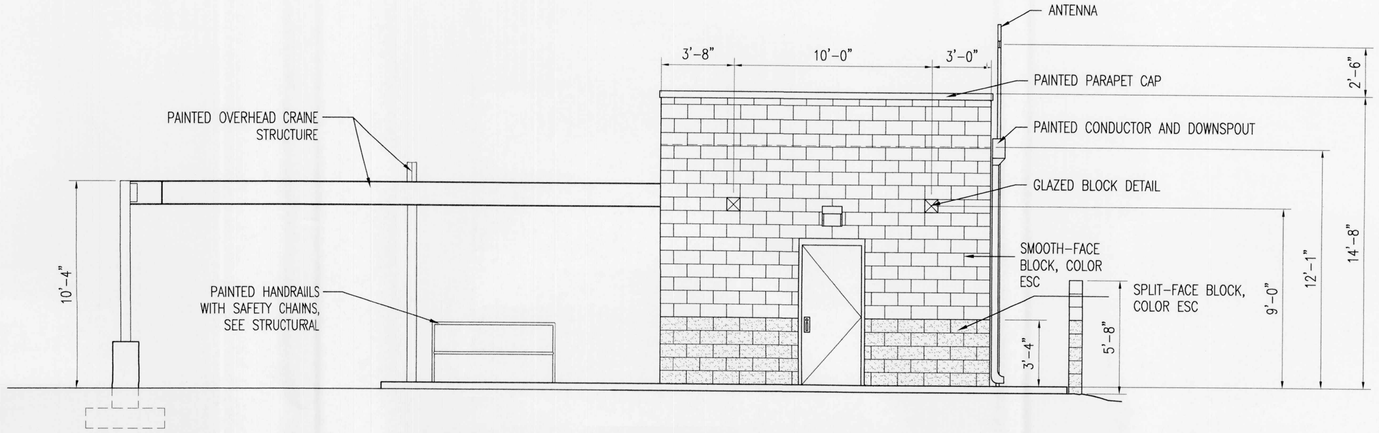


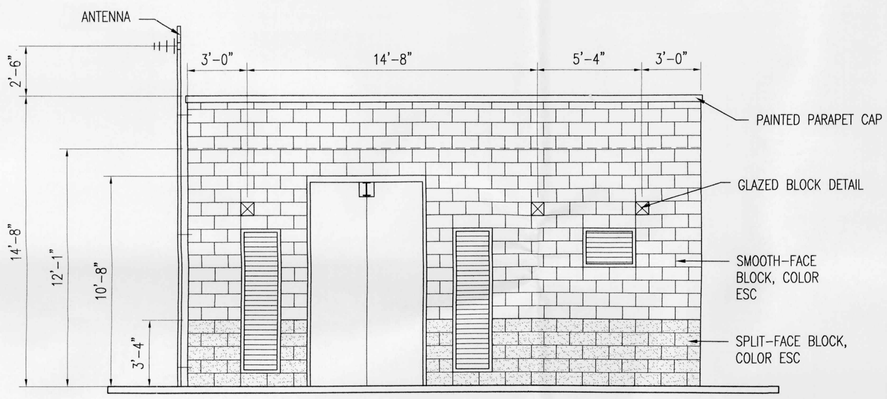

## SOUTH ELEVATION

0 2' 4' 8'



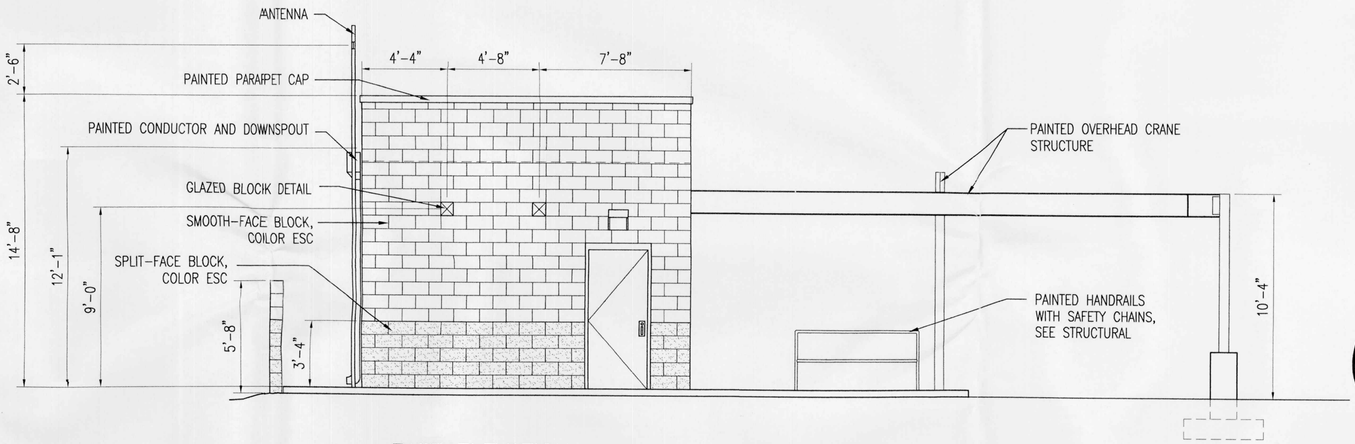

## WEST ELEVATION

0 2' 4' 8'



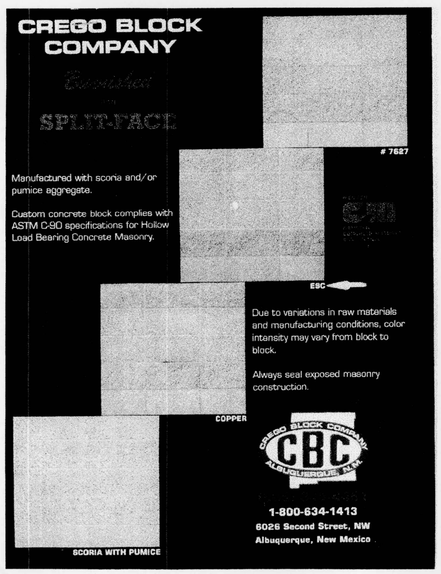

## NORTH ELEVATION

0 2' 4' 8'




## EAST ELEVATION

0 2' 4' 8'




## EXTERIOR FINISH SCHEDULE

| MATERIAL | MANUFACTURER'S COLOR | COLOR |
|---|---|---|
| SPLIT-FACE CMU | RINKER MATERIALS (FORMERLY CSR) ESC | BROWNISH RED |
| SMOOTH-FACE CMU AND CMU CAP | RINKER MATERIALS (FORMERLY CSR) ESC | BROWNISH RED |
| PAINT | DUNN EDWARDS DE 3043 MUTED YAM | BROWNISH RED |

AS BUILT INFORMATION

CONTRACTOR — DATE
WORKS STARTED BY — DATE
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
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MICRO-FILM INFORMATION

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FIELD NOTES

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| | | CHECKED BY | JQP |

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| 07/24/01 |

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CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# NORTH LIFT STATION EXTERIOR ELEVATIONS

| Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr. |
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City Project No. | Zone Map No. | Sheet 7 Of 10

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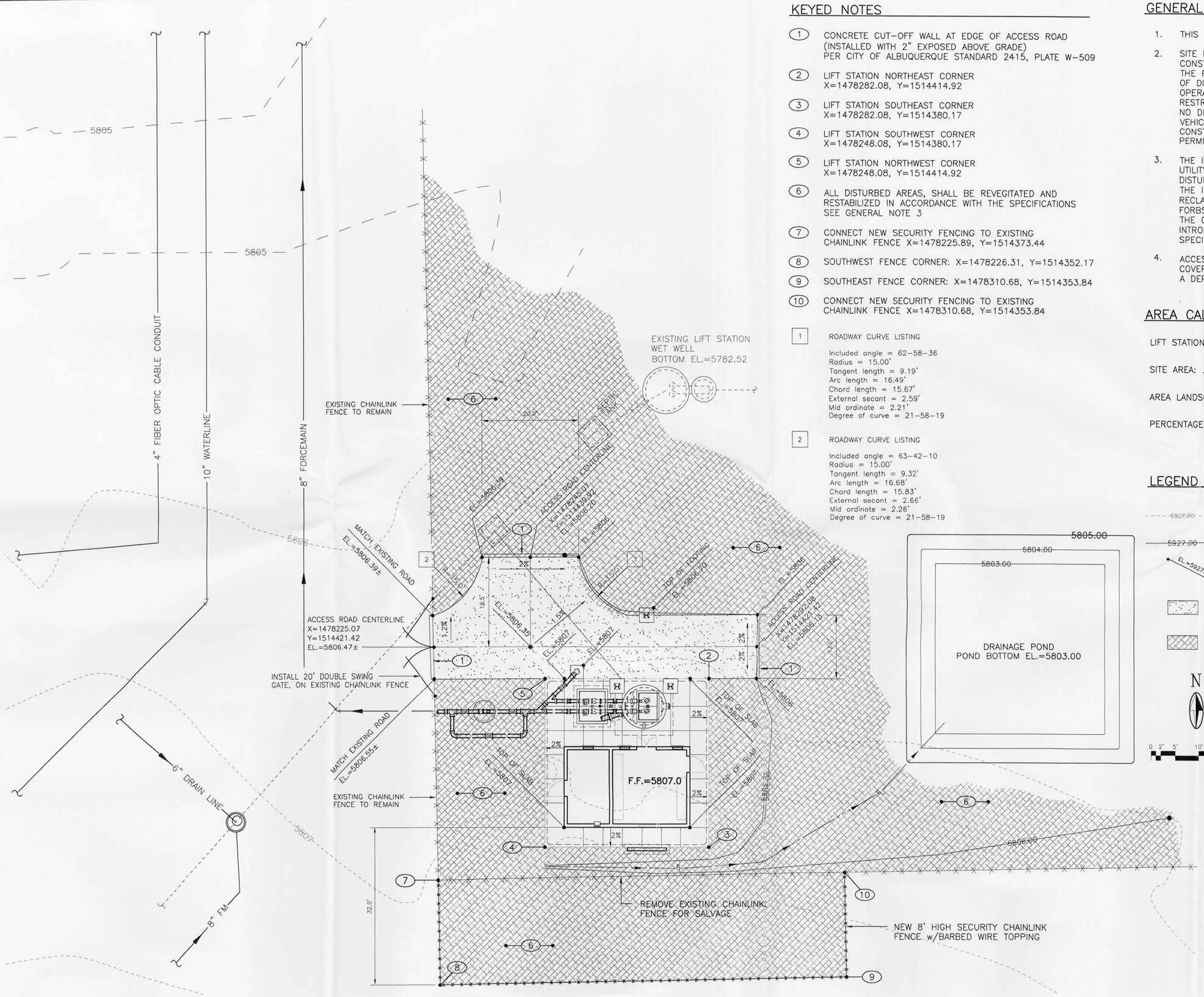


## KEYED NOTES

1. CONCRETE CUT-OFF WALL AT EDGE OF ACCESS ROAD (INSTALLED WITH 2" EXPOSED ABOVE GRADE) PER CITY OF ALBUQUERQUE STANDARD 2415, PLATE W-509
2. LIFT STATION NORTHEAST CORNER X=1478282.08, Y=1514414.92
3. LIFT STATION SOUTHEAST CORNER X=1478282.08, Y=1514380.17
4. LIFT STATION SOUTHWEST CORNER X=1478248.08, Y=1514380.17
5. LIFT STATION NORTHWEST CORNER X=1478248.08, Y=1514414.92
6. ALL DISTURBED AREAS, SHALL BE REVEGITATED AND RESTABILIZED IN ACCORDANCE WITH THE SPECIFICATIONS SEE GENERAL NOTE 3
7. CONNECT NEW SECURITY FENCING TO EXISTING CHAINLINK FENCE X=1478225.89, Y=1514373.44
8. SOUTHWEST FENCE CORNER: X=1478226.31, Y=1514352.17
9. SOUTHEAST FENCE CORNER: X=1478310.68, Y=1514353.84
10. CONNECT NEW SECURITY FENCING TO EXISTING CHAINLINK FENCE X=1478310.68, Y=1514353.84

[1] ROADWAY CURVE LISTING

Included angle = 62-58-36
Radius = 15.00'
Tangent length = 9.19'
Arc length = 16.49'
Chord length = 15.67'
External secant = 2.59'
Mid ordinate = 2.21'
Degree of curve = 21-58-19

[2] ROADWAY CURVE LISTING

Included angle = 63-42-10
Radius = 15.00'
Tangent length = 9.32'
Arc length = 16.68'
Chord length = 15.83'
External secant = 2.66'
Mid ordinate = 2.26'
Degree of curve = 21-58-19




## GENERAL NOTES

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4. ACCESS DRIVES AND CIRCULATION AREAS WILL BE COVERED WITH GRAY, COMPACTED, CRUSHED GRAVEL TO A DEPTH OF SIX INCHES.

## AREA CALCULATIONS

| | |
|---|---|
| LIFT STATION AREA: | 433.5 S.F. |
| SITE AREA: | 9227 S.F. |
| AREA LANDSCAPED: | 6837 S.F. |
| PERCENTAGE LANDSCAPED: | 74.0% |

## LEGEND

- 5927.00 — EXISTING CONTOUR (1' CONTOUR INTERVAL)
- 5927.00 — NEW CONTOUR
- EL.=5927.14 — NEW TOPO SPOT ELEVATION
- ACCESS ROAD GRAVEL SURFACE
- LANDSCAPING AREA

N

0 2' 5' 10' 20'


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AS BUILT INFORMATION

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| CONTRACTOR | |
| WORK STAKED BY | DATE |
| INSPECTOR'S ACCEPTANCE BY | DATE |
| FIELD VERIFICATION BY | DATE |
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MICRO-FILM INFORMATION

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NO.

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FIELD NOTES

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SEAL

STATE OF NEW MEXICO
JOHN PAUL GUNN
NO. 17841
REGISTERED PROFESSIONAL ENGINEER
11/9/01

REVISIONS

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| | | | DKS | 07/24/01 |
| | | | | |
| | | | JMP | 07/24/01 |

DESIGNED BY JMP
DRAWN BY DKS
CHECKED BY JMP

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE: DOUBLE EAGLE II AIRPORT INFRASTRUCTURE DEVELOPMENT

# NORTH LIFT STATION LANDSCAPING PLAN

| Design Review Committee | City Engineer Approval | Last Design Update | Mo./Day/Yr. | Mo./Day/Yr. |
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City Project No. | Zone Map No. | Sheet 3 Of 10

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