KEYED NOTES

1. 55' X 90' CANOPY AND FUEL
2. 3-14' GATE ARMS - (SECURITY ENTRANCE & EXIT)
3. NEW FIRE HYDRANT
4. TRASH ENCLOSURE WITH GATES. MATCH BUILDING ELEVATIONS
5. 20' X 20' PATIO WITH CANOPY
6. ABOVE GROUND FUEL STORAGE TANKS (CAST IRON)
7. 20' X 20' CONTROL OFFICE
8. 4" ROUND STEEL POSTS WITH CONCRETE AT 4'-0" O.C. MAX-5'-0" FROM AST MIN
9. NEW 6' HIGH CHAIN LINK FENCE
10. FRONTAGE FENCING SHALL CONSIST OF MASONRY PILLARS AND WROUGHT IRON DECORATIVE FENCING
11. 12' WIDE CONCRETE RUNDOWN
12. 22' WIDE CONCRETE RUNDOWN
13. INSTALL VALVES AND VALVE BOXS
14. EXSITING 6' HIGH CHAIN LINK FENCE
15. 25' x 48' PAVEMENT SECTION REMOVAL ON AIRPORT ROAD FOR UTILITY INSTALLATION TO BE TO BE REPLACED PER CITY DWG. NO. 2465
16. INSTALL WATER METER PER CITY DWG. NO. 2362
17. 4" WIDE WHITE STRIPES (2 COATS)
18. CONSTRUCT PRIVATE ENTRANCE PER CITY DWG. NO. 2426 CURB IN R.O.W. SHALL BE CONSTRUCTED WITH STANDARD CURB & GUTTER PER CITY DWG. NO. 2415
19. 8' WIDE CONCRETE LANDING PADS
20. 6' REFLECTORIZED ARROW
21. CONSTRUCT ISLAND GEOMETRY PER DETAIL SHEET
22. 3' MAN GATE

LEGEND

- EXISTING 6' HIGH CHAIN LINK FENCE
- NEW 6' HIGH CHAIN LINK FENCE
- NEW FENCE CONSITING OF MASONRY PILLAR AND WROUGHT IRON
- NEW TYPE "A" SUPER ELEVATED CURB
- NEW TYPE "B" COMBINED CURB & GUTTER
- CITY STANDARD CURB & GUTTER
- HEADER CURB

GENERAL NOTES (SITE)

1. THE CONTRACTOR SHALL REFER TO THE OWNER'S SURVEY FOR THE METES AND BOUNDS DESCRIPTION.
2. THE CONTRACTOR SHALL SUBMIT AUTOMATIC FIRE SPRINKLER SYSTEM SHOP DRAWINGS WITH A SEAL TO THE CITY OF ALBUQUERQUE FIRE DEPARTMENT FOR APPROVAL AS REQUIRED, PER NFPA 13.
3. THE FIRE SPRINKLER SYSTEM SHALL BE SUPERVISED AND MONITORED FOR 100 SPRINKLER HEADS OR MORE.
4. THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL UNDER-GROUND UTILITIES PRIOR TO COMMENCING WITH CONSTRUCTION.
5. ALL WORK WITHIN THE RIGHT OF WAY SHALL MEET CITY OF ALBUQUERQUE STANDARDS.
6. THE SQUARE FOOTAGES SHOWN ON THESE PLANS ARE FOR BUILDING CODE AND ARCHITECTURAL PURPOSES ONLY.
7. THE CONTRACTOR SHALL PLACE THE BUILDING ADDRESS IN A LOCATION WHERE IT IS VISIBLE AND CLEARLY LEGIBLE FROM THE STREET. SEE THE EXTERIOR ELEVATIONS FOR LOCATION.
8. SEE THIS SHEET FOR THE ACCESSIBLE ROUTE FROM THE HANDICAP PARKING SPACES INTO THE BUILDING.
9. TREES AND SHRUBS SHALL BE PLANTED NO LESS THAN 3'-0" FROM ANY EXISTING OR NEW UNDERGROUND UTILITY LINES.
10. ALL NEW FIRE HYDRANTS SHALL BE OPERATING PRIOR TO THE BEGINNING OF CONSTRUCTION.
11. AL DIMENSIONS SHOWN ARE TO FACE OF CURB OR STRIPE CENTERLINE.

CAUTION:

NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE 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 EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

ZONED "SU-1" PLANNED INDUSTRIAL PARK (RIO GRANDE DISPLAY AND PACKAGING) PARCEL B, UNIT 2 ATRISCO BUSINESS PARK FILED 2-07-1974; D6-21

ZONED "SU-1" (CHURCH CAMPUS) TRACT A-1 LANDS OF VICTORY LOVE FELLOWSHIP CHURCH JOSEPH G. BERUMAN FILED 7-13-1989; C39-107

ZONED "SU-1" (CHURCH, CAMPUS) TRACT D, LANDS OF VICTORY LOVE FELLOWSHIP CHURCH JOSEPH G. BERUMAN FILED 9-11-1985; C-28-51

ZONED "C-2" (ZANIOS FOODS) TRACT A-1-A-1 WEST 66 ADDITION FILED 10-29-1992; 92C-240

ZONED "SU-1" (CURRENTLY UNDEVELOPED) PARCEL C-3, UNIT 2 ATRISCO BUSINESS PARK FILED 12-14-1994; BOOK 94C, FOLIO 413

ZONED "SU-1" (LUMBER INC., DISTRIBUTION YARD) PLANNED INDUSTRIAL PARK

AIRPORT DRIVE NW (60 FT. WIDE R.O.W.)

EXISTING 48' WIDE FL TO FL PAVING SECTION

25' PUBLIC SANITARY SEWER EASEMENT

10' PRIVATE UNDERGROUND DRAINAGE GRANTED TO THE OWNERS OF PARCEL B

19' PUBLIC WATER EASEMENT

27.50' STORM DRAIN EASEMENT

SHOP AREA "SWIFT" OFFICE AREA

TRACTOR PARKING 30'x12'

CAR PARKING SPACE 9'x20' TYP.

10' WIDE CONC. APRON TYP.

AND PLANS CHECKING OFFICE 924-3611 APPROVED/DISAPPROVED

SIGNATURE & DATE

NORTH

50 0 25 50 100

(IN FEET) 1 inch = 50 ft.

PROJECT INFORMATION

PROJECT: SWIFT TRANSPORTATION CO, INC. TRUCK TERMINAL

LOCATION: AIRPORT DRIVE NW ALBUQUERQUE, NEW MEXICO LOCATED BETWEEN CENTRAL AVENUE AND BLUEWATER ROAD AND BETWEEN UNSER BOULEVARD AND COORS ROAD.

OWNER: SWIFT TRANSPORTATION CO, INC. P.O. BOX 29243 PHOENIX, AZ, 85038-9243

ENGINEER: APPLIED ENGINEERING & SURVEYING, INC. 1605 BLAIR DRIVE NE ALBUQUERQUE, NEW MEXICO, 87112

LEGAL DESCRIPTION: LOT C1 & C2 OF ATRISCO BUSINESS PARK, UNIT 2

ZONING ATLAS MAP: K-10-Z

CURRENT ZONING CLASSIFICATION: IP, INDUSTRIAL PARK ZONE

PROPOSED ZONING CLASSIFICATION: CONDITIONAL USE FOR TRUCK TERMINAL IN IP, INDUSTRIAL PARK ZONE

BUILDING FUNCTION: NEW OFFICE/SHOP BUILDING

CONSTRUCTION TYPE: TYPE II-N CONSTRUCTION WITH 100% AUTOMATIC FIRE SPRINKLER SYSTEM.

ALLOWABLE AREA:

TOTAL BUILDING AREA: 21,584 SQUARE FEET

TOTAL LOT AREA: 784,080 SQUARE; 18.0 ACRES

NET LOT AREA: 784,080 SQUARE FEET; 18.0 ACRES

TOTAL PARKING/PAVED AREA: 13.9 ACRES.

LANDSCAPE AREA REQUIRED: 18.0 ACRES x 20%= 3.6 ACRES

LANDSCAPE AREA PROVIDED: 3.6 ACRES

PARKING ANALYSIS:

PARKING SPACE SIZES:

REGULAR CAR PARKING SPACES = 9'-0" x 18'-0" WITH A 2'-0" OVERHANG. (119 SPACES)

VAN ACCESSIBLE HANDICAP PARKING SPACES = 9'-0" x 18'-0" WITH A 2'-0" OVERHANG AND A 9'-0" (3 SPACES)

TRUCK PARKING SPACES = 12'-0" x 80'-6" (158 SPACES)

BICYCLE SPACES:

REQUIRED PARKING = 25/20 = 1.25 BICYCLES

TOTAL BICYCLE SPACES REQUIRED = 2 BICYCLE SPACES

TOTAL BICYCLE SPACES PROVIDED = 4 BICYCLE SPACES (2 BIKE RACK POSTS AT 2 BICYCLES PER POST)

SITE LIGHTING:

LIGHTING SHALL BE STANDARD MOUNTED, BUILDING MOUNTED AND BOLLARD TYPE AND LOCATED SO AS NOT TO GLARE ONTO ADJACENT SITES. STREET LIGHTS SHALL BE 30 TO 40 FEET HIGH AND LOCATED PER MASTER DEVELOPMENT PLAN REQUIREMENTS. PARKING LOT LIGHTING SHALL BE 20 TO 30 FEET HIGH AND LOCATED TO MAXIMIZE PUBLIC AND EMPLOYEE SAFETY. AREA LIGHTING AND DOCK AREA LIGHTING SHALL USE STANDARDS 10 TO 15 FEET IN HEIGHT. THE USE OF WALKWAY LEVEL LIGHTING, SUCH AS BOLLARD LIGHTS OR WALL POKET LIGHTS SHOULD BE USED FOR PEDESTRIAN ZONES. PLANTER AND BUILDING SIGNAGE SHALL BE HIGHLIGHTED WITH LANDSCAPE SPOT LIGHTING. LIGHTING SHALL BLEND WITH THE ARCHITECTURAL CHARACTERISTICS OF THE BUILDING. NO LIGHT MAY ESCAPE THE SITE.

CITY REFERENCE NUMBERS: E.P.C. CASE NUMBER: Z-92-57 ZA CASE NUMBER: ZA-00-281

DRB Application # 01450-00000-00783

PROJ 1001134

SIGNATURE BLOCK

SITE PLAN APPROVAL

E.P.C. CASE NO. Z-92-57
Z.A. CASE NO. ZA-00-281
D.R.B. CASE NO. 1001134

THIS SITE IS ZONED IP (INDUSTRIAL PARK ZONE) AND THIS PLAN IS CONSISTANT WITH THE SPECIFIC DEVELOPMENT PLAN APPROVED APPROVED BY THE ENVIRONMENTAL PLANNING COMMISSION ON OCTOBER 15, 1992.

PLANNING DIRECTOR — DATE 7/19/01

APPROVED AS TO THE REQUIREMENTS:

TRANSPORTATION DEVELOPMENT — DATE 6/18/01

CITY ENGINEER — DATE 6/13/01

DESIGN & DEVELOPMENT, C.I.P. Parks & Recreation — DATE 6/14/01

UTILITY DEVELOPMENT — DATE 6/13/01

SOLID WASTE — DATE May 18, 01

NO.	DESCRIPTION	BY	DATE
	REVISION		

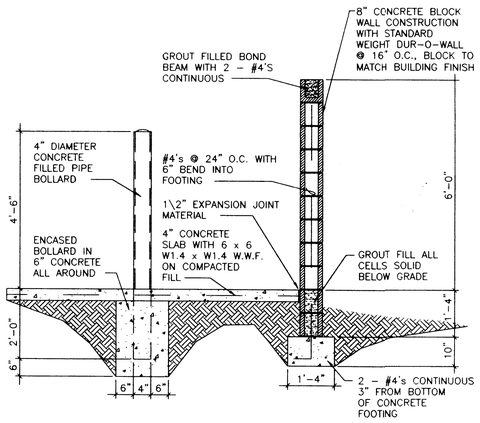
SWIFT — ALBUQUERQUE NEW MEXICO

SITE PLAN AND UTILITIES

Drawn: MS
Chkd:
Scale: NOTED
Date:

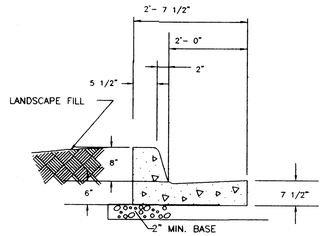
APPLIED Engineering & Surveying Inc.
1605 Blair Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1456

SHEET NO. SP-1



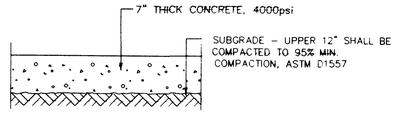
TRASH ENCLOSURE WALL

SCALE: 1/2" = 1'-0"



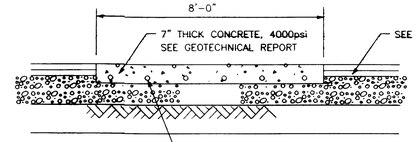
STANDARD CURB & GUTTER

PER CITY DWG 2415 SCALE: N.T.S.



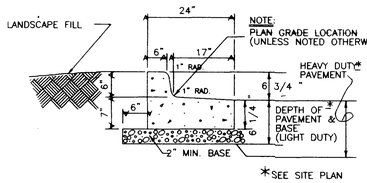
HEAVY DUTY CONCRETE DETAIL

NTS



CONCRETE LANDING PAD DETAIL

SCALE: 1"=2'

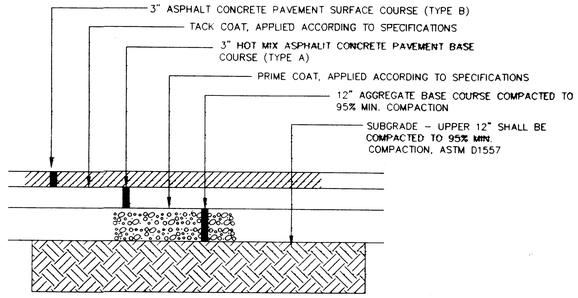


NOTE:
1. USE WITH ALL ASPHALT PAVEMENTS
2. 1/2 " PREMOLDED EXPANSION JOINTS SHALL BE CONSTRUCTED EACH SIDE OF DRIVE APPROACH SECTIONS AND AT P.C. POINTS AT INTERSECTIONS , BUT THE MAXIMUM SPACING SHALL NOT EXCEED 100'.

GENERAL NOTES
1. WHEN USED WITH ASPHALT PAVEMENTS, TYPE "A" CURB & GUTTER SHALL HAVE CONTRACTION JOINTS EVERY 10'.
2. AT AREAS WHERE CURB IS ABUTTING 5' CONC. SIDEWALK, CURB AND WALK SHALL BE POURED MONOLITHICALLY.

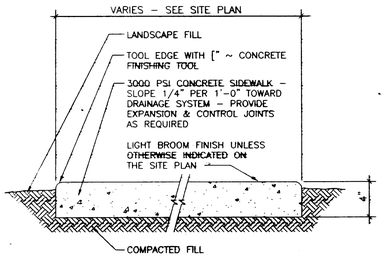
TYPE "A" SUPER-ELEVATED CURB SECTION

NTS



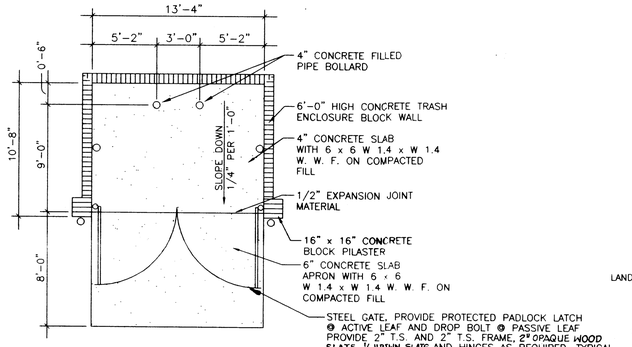
6" FLEXIBLE PAVEMENT DETAIL "A" FOR TRUCK PARKING AREA

NTS



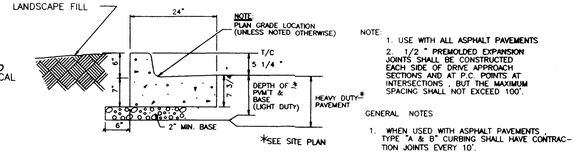
TYPICAL SIDEWALK

NTS



TRASH ENCLOSURE PLAN

SCALE: 1/8" = 1'-0"

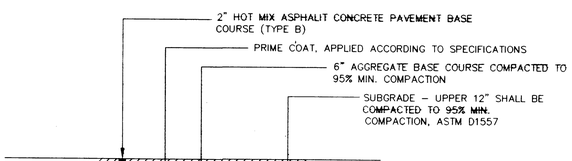


NOTE:
1. USE WITH ALL ASPHALT PAVEMENTS
2. 1/2 " PREMOLDED EXPANSION JOINTS SHALL BE CONSTRUCTED EACH SIDE OF DRIVE APPROACH SECTIONS AND AT P.C. POINTS AT INTERSECTIONS , BUT THE MAXIMUM SPACING SHALL NOT EXCEED 100'.

GENERAL NOTES
1. WHEN USED WITH ASPHALT PAVEMENTS, TYPE "A & B" CURBING SHALL HAVE CONTRACTION JOINTS EVERY 10'.

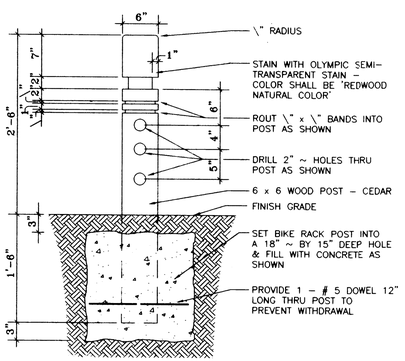
TYPE "B" COMBINED CURB & GUTTER

NTS



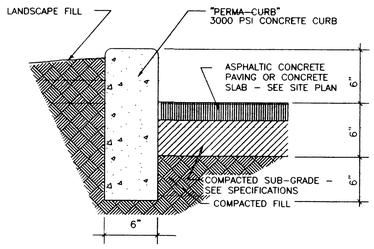
2" FLEXIBLE PAVEMENT DETAIL "B" FOR CAR PARKING AREA

NTS



BIKE RACK POST DETAIL

NTS



HEADER CURB AT LANDSCAPE ISLANDS

NTS

NOTE:
CONTRACTOR TO REVIEW AND IMPLEMENT GEOTECHNICAL INVESTIGATION AND PAVEMENT SECTION RECOMMENDATIONS PREPARED BY VINYARD & ASSOCIATES DATED MARCH 7, 2001 AND ADDENDUM DATED MAY 3, 2001. ALL PAVEMENT SECTIONS SITE GRADING AND UTILITY CONSTRUCTION SHALL COMPLY WITH THE LATEST CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

GILBERT ALDAZ NEW MEXICO 10348 REGISTERED PROFESSIONAL ENGINEER 06-05

NO.	DESCRIPTION	BY	DATE
	REVISION		

SWIFT

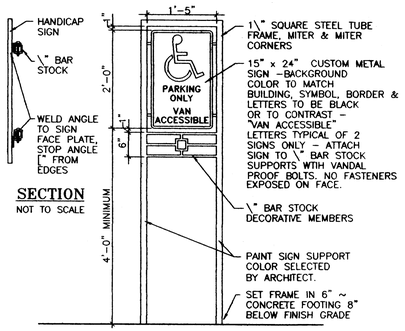
ALBUQUERQUE NEW MEXICO

SITE PLAN DETAILS

Drwn AES
Chkd
Scale NOTED
Date

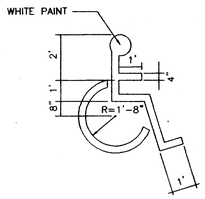
APPLIED Engineering & Surveying Inc.
1605 Blair Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1456

SHEET NO. SP-2



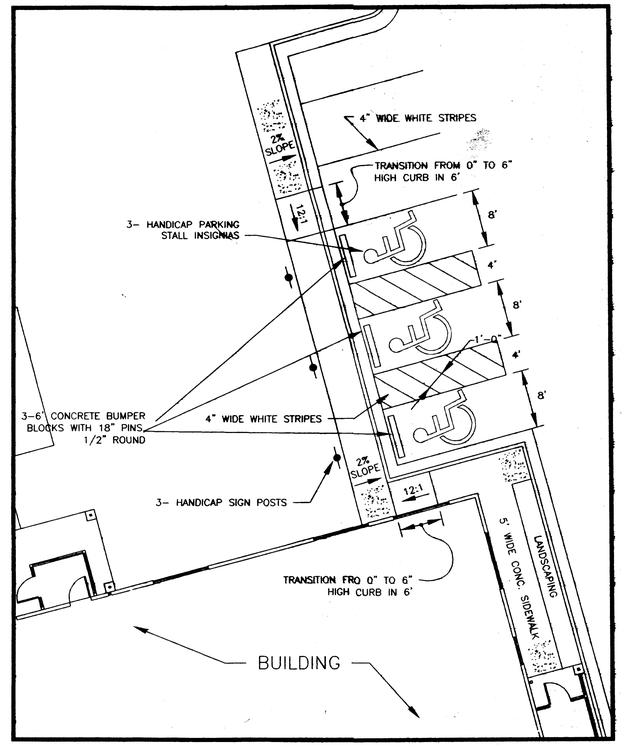
SECTION
NOT TO SCALE

HANDICAP SIGN POST
SCALE: 3/4" = 1'-0"



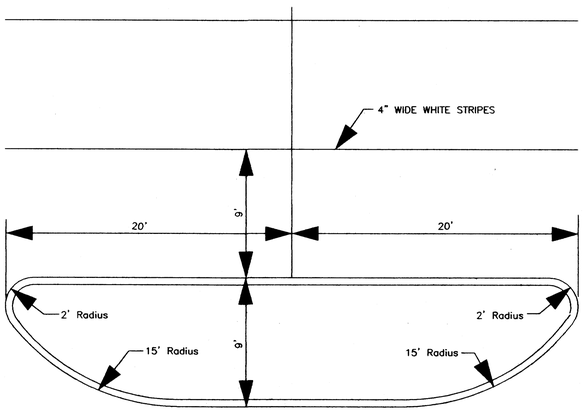
NOTE:
SYMBOL TO BE CENTERED ON WIDTH OF PARKING STALL - SYMBOLS ARE REQ'D TO CONTRAST W/ BACKGROUND WHITE ON BLUE (COLOR NO. 105090 IN FEDERAL STD. 5952) DOUBLE COAT (TYP.)

TYPICAL HANDICAP PARKING STALL INSIGNIA
PER CITY DWG. NO. 2415



HANDICAP PARKING DETAIL
SCALE: 1"=10'

CHAIN LINK FENCE
PER CITY DWG. NO. 2252



PARKING LOT ISLAND DETAIL
SCALE: 1"=5'

NOTE:
CONTRACTOR TO REVIEW AND IMPLEMENT GEOTECHNICAL INVESTIGATION AND PAVEMENT SECTION RECOMMENDATIONS PREPARED BY VINYARD & ASSOCIATES DATED MARCH 7, 2001 AND ADDENDUM DATED MAY 3, 2001. ALL PAVEMENT SECTIONS SITE GRADING AND UTILITY CONSTRUCTION SHALL COMPLY WITH THE LATEST CITY OF ALBUQUERQUE STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION

GILBERT ALDAZ NEW MEXICO 9248 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	BY	DATE
	REVISION		

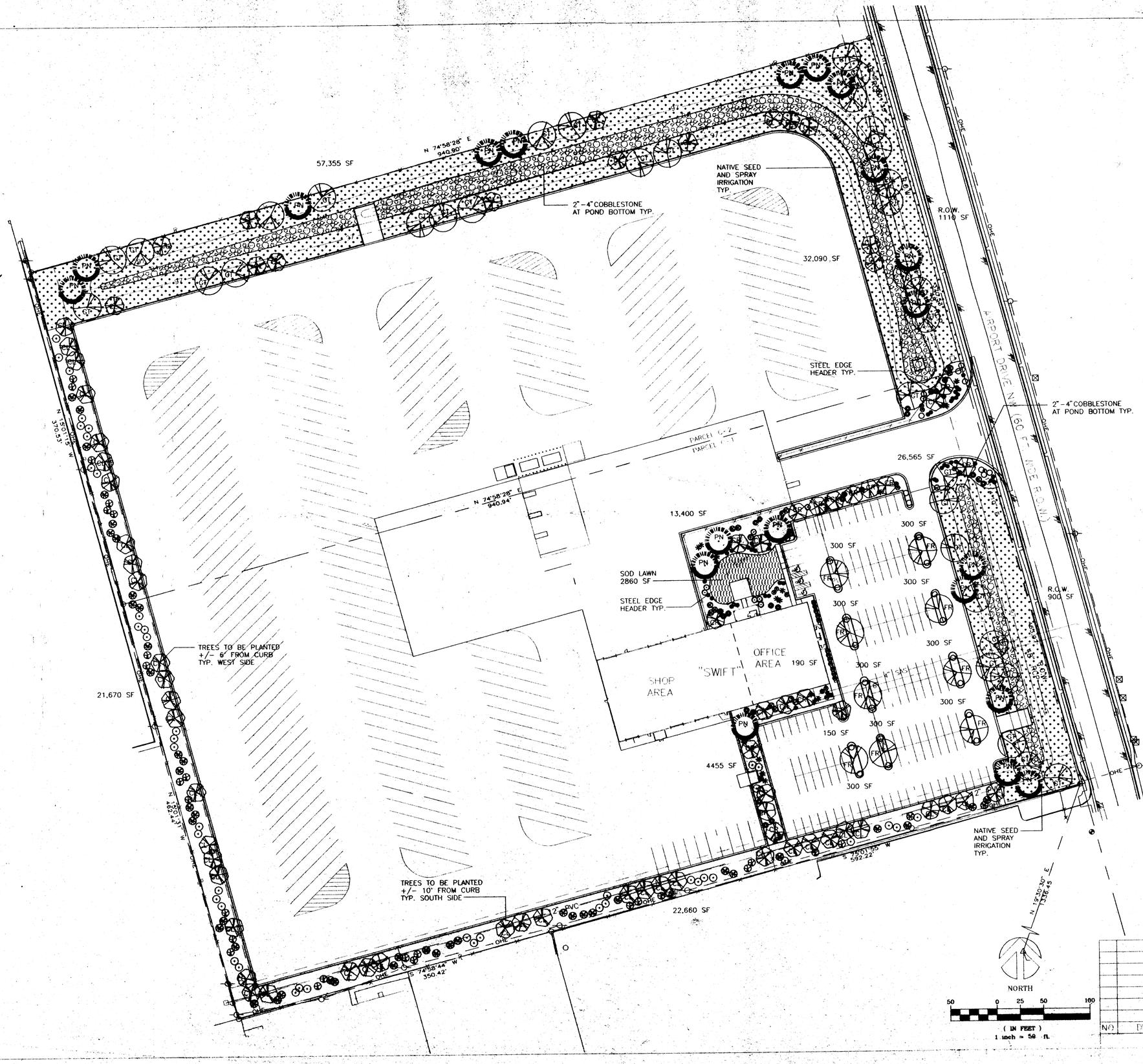
SWIFT
ALBUQUERQUE NEW MEXICO

SITE PLAN DETAILS

Drawn: ---
Chkd: ---
Date: ---
Proj: ---

APPLIED Engineering & Surveying Inc.
1605 Blak Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-7488

SHEET NO. SP-3



PLANT LEGEND

SYMBOL	QTY.	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE
GT	35	GLEDITSIA TRICANTHOS	LOCUST	2" CAL	H
FR	9	FRAXINUS	ASH	2" CAL	H
CR	20	CRATAEGUS	HAWTHORN	2" CAL	H
CL	56	CHILOPSIS	DESERT WILLOW	15 GAL	M
PN	20	PINUS NIGRA	AUSTRIAN PINE	6'-8'	M
⊙	45	ELAEAGNUS PUNGENS	SILVERBERRY	1-5 GAL	M
○	30	JUNIPERUS SABINA	BUFFALO JUNIPER		M
●	25	RAPHIOLEPIS INDICA	INDIA HAWTHORN		M
⊛	26	CHRYSOTHAMNUS NAUSEOSUS	CHAMISA		L
⊛	46	BUDDLEIA DAVIDII	BUTTERFLY BUSH		M
⊛	12	CARYOPTERIS X CLADONENSIS	BLUE MIST		M
⊙	13	ROSMARINUS OFFICINALIS	ROSEMARY		M
●	23	MISCANTHUS SINENSIS	MAIDEN GRASS		M
✱	21	HESPERALOE PARVIFLORA	RED YUCCA		M
●	42	LAVANDULA	LAVENDER	1 GAL	M

SITE DATA

GROSS LOT AREA	784,080 SF
LESS BUILDING	21,584 SF
NET LOT AREA	762,496 SF
REQUIRED LANDSCAPE 20% OF NET LOT AREA	152,499 SF
PROPOSED LANDSCAPE	181,235 SF
PERCENT OF NET LOT AREA	23%
HIGH WATER USE TURF MAX. 20% OF LANDSCAPE AREA	36,247 SF
PROPOSED HIGH WATER USE TURF	2860 SF
PERCENT OF LANDSCAPE AREA	1%

STREET TREES REQUIRED
PROVIDED AT ONE PER 25 LF OF STREET FRONTAGE
PARKING LOT TREES
PROVIDED AT ONE PER 10 PARKING SPACES.
PERIMETER TREES
PROVIDED AT ONE PER 40 LF OF SIDE/REAR LOT LINES

PLANTING RESTRICTIONS APPROACH

A MINIMUM OF 80% OF THE PLANTINGS TO BE LOW OR MEDIUM WATER USE PLANTS

A MAXIMUM OF 20% OF THE LANDSCAPE AREA TO BE HIGH WATER USE TURF

NOTE

MAINTENANCE OF LANDSCAPE PROVIDED BY OWNER

PLANTINGS TO BE WATERED BY AUTO. DRIP IRRIGATION SYSTEM

WATER MANAGEMENT IS THE SOLE RESPONSIBILITY OF THE PROPERTY OWNER

THIS PLAN IS TO COMPLY WITH C.O.A. LANDSCAPE AND WATER WASTE ORDINANCE PLANTING RESTRICTIONS APPROACH

IT IS THE INTENT OF THIS PLAN TO PROVIDE MIN. 75% LIVE GROUNDCOVER OF LANDSCAPE AREAS AT MATURITY

LANDSCAPE AREAS TO BE MULCHED WITH SANTA ANA TAN GRAVEL AT 2"-3" DEPTH OVER FILTER FABRIC

APPROVAL OF THE LANDSCAPE PLAN DOES NOT CONSTITUTE OR IMPLY COMPLIANCE WITH, OR EXEMPTION FROM, THE C.O.A LANDSCAPE AND WATER WASTE ORDINANCE

TREES ARE NOT TO BE PLACED IN PUBLIC UTILITY EASEMENTS

NO PARKING SPACE SHALL BE MORE THEN 100' FROM A TREE.

Heads Up Landscape Contractors, Albuquerque, NM

STATE OF NEW MEXICO — JOHN GILMER BARLY — 1281 — REGISTERED LANDSCAPE ARCHITECT

NO.	DESCRIPTION	BY	DATE
	REVISION		

SWIFT — ALBUQUERQUE NEW MEXICO

LANDSCAPE PLAN

Drawn: M.S.
Check:
Scale: 1"=50'
Date:

APPLIED Engineering & Surveying Inc.
1605 Utah Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1456

SHEET NO. LP-1

The Following Items Concerning the Swift Truck Terminal Drainage and Grading Plan are as Follows:

1.SITE LOCATION:
As shown by the Vicinity Map (Zone Atlas K-10), the site is located on the west side of Airport Road NW, approximately 450 feet south of Bluewater Road. This tract of land is identified as Parcels C-1 and C-2, Atrisco Business Park, Unit 2. This Site also lies in the Master Development Plan for IP uses, known as Atrisco Business Park

2.EXISTING CONDITIONS :
This site is currently undeveloped and contains some native grasses and chamisa vegetation.

3.FLOOD INSURANCE RATE MAP
According to the Flood Insurance Rate Map Panel 3500C0329 D, Dated by LOMR Oct 3, 1997 this Site does not lie in a 100-Year Floodplain.

4.EXISTING MASTER DRAINAGE STUDIES AND STORM DRAIN FACILITIES:
As part of the Atrisco Business Park Master Plan a master drainage study was prepared and submitted as part of this master plan. The master drainage study requires that the development in this park provide on site detention ponding.
An existing 48inch RCP City storm drain parallels the east boundary of this site. This storm drain war constructed as City Project No. 4383.92. The Atrisco Master Drainage Study provides for an allowable discharge rate from this site into this storm drain.
An existing 12inch PVC Private storm drain parallels the south boundary of this site. This Private storm drain is a discharge line for a private detention pond located adjacent to the west property line at the southwest end of this site.

5.PROPOSED CONDITIONS:
As shown per the grading plan, the project consists of constructing a new building structure that will contain a office and shop area. Also, two canopies are proposed, one for a fuel island for dispensing fuel to the trucks and the second canopy to provide shade for a lunch area. There will be asphalt and concrete paving provided for the truck parking and a separate parking lot for employee parking. Landscaping and detention ponding will be provided as required by the Atrisco Master Plan.

6.PROPOSED DRAINAGE BASINS AND STORM DRAIN FACILITIES:
As shown per the grading plan, 3 drainage basins are proposed in order to address the drainage concept. The 3 drainage basins will discharge into 3 detention ponds that will be released at a flow rate allowed per the master drainage study into the existing 48" storm drain that parallels the east boundary line.
Drainage Basin "A" will encompass all of the west half and a northerly portion of the site that will include most of the asphalt parking area for the trucks. A new detention pond is proposed along the northern boundary line to accept this flow.
Drainage Basin "B" will encompass most of the northeast quadrant and will include asphalt parking area for the trucks and the north half of the main building structure. A new detention pond is proposed along the east boundary on the north half of the site to accept this flow.
Drainage Basin "C" will encompass most of the southeast quadrant and will include the asphalt parking area for the cars and the south half of the main building structure. A new detention pond is proposed along the east boundary on the south half of the site to accept this flow.

7.DESIGN CRITERIA:
The calculations in this report analyze both the existing and developed conditions for the 100-year, 6 hour rainfall runoff for peak flows and 100-year, 24 hour storm duration for volume requirements due to the limited discharge rate. The procedures used will be for 40 acre and smaller basins as set forth in the revision of section 22.7 Hydrology of the Development Process manual, volume 2, Design Criteria, dated January, 1993. This D.P.M. procedure is used for analyzing onsite flows.

8.DOWNSTREAM CAPACITY
As mentioned there is a master drainage study as part of the Atrisco Business Park for this area, the drainage plan for this site will follow the requirements identified in this master study. This master drainage study addresses downstream capacity and identifies allowable release rates from all the developments in the area to minimize downstream flooding.

9.OFFSITE FLOWS
The area to the west is currently developed and flows are directed to an existing detention pond on the south side of that property. An existing 12 inch PVC along the south boundary of this proposed development drains this detention pond.

There is a slight chance that Tract C-3 site could drain flows into this site while it remains undeveloped and if the flows were high enough to reach an elevation of 5097. If this would happen some of these flows would be routed through the detention pond proposed in Basin "A". These undeveloped flows from Tract C-3 will cause no flooding potential to this proposed development. Once this Tract C-3 develops, the master plan requires that it construct a detention pond on its si and discharge into the existing 48" storm drain that parallels its east boundary line.

10.EROSION CONTROL
Temporary erosion control will be required during the construction phase to protect Airport Road and the existing 48 storm drain improvements from sediment and uncontrolled runoff. The contractor shall include temporary earth berming along the east project boundaries to hold runoff during construction. It is the contractor's responsibility to properly maintain these facilities during the construction phase of the project. The Contactor shall clean up any excavated material within the public easements or street rightof-way so the excavated material is not susceptible to being washed down the street. The standard specifications for watering disturbed ground surfaces for dust control will be imposed on the site during construction.

DRAINAGE CALCULATIONS
1.PRECIPITATION ZONE = 1
2.DESIGN STORM = DEPTH (INCHES) AT 100-YEAR STORM
6-HOUR = 2.20 INCHES
24-HOUR = 2.66 INCHES
10 DAY = 3.67 INCHES

3.PEAK DISCHARGE (CFS/ACRE) FOR 100-YEAR, ZONE 2, TABLE A-9:
Q = 1.29 CFS/ACRE SOIL UNCOMPACTED "A"
Q = 2.03 CFS/ACRE LANDSCAPED "B"
Q = 2.87 CFS/AC COMPACTED SOIL "C"
Q = 4.37 CFS/ACRE IMPERVIOUS AREA "D"
FOR WATERSHEDS LESS THAN OR EQUAL TO 40 ACRES

4. EXCESS PRECIPITATION, E (INCHES), 6 HOUR STORM, ZONE 2,TABLE A-8:
E = 0.44 INCHES SOIL UNCOMPACTED "A"
E = 0.67 INCHES LANDSCAPED "B"
E = 0.99 INCHES COMPACTED SOIL "C"
E = 1.97 INCHES IMPERVIOUS AREA "D"

5. EXISTING CONDITIONS ONSITE, ENTIRE SITE
18.0 ACRES OF SOIL UNCOMPACTED BY HUMAN ACTIVITY WITH 0 TO 10 PERCENT SLOPES = TREATMENT "A"

TREATMENT	AREA(ACRES)
A	18.0
B	0
C	0
D	0

Q(EXISTING - 6HR) = (1.29 X 18.0) = 23.2CFS EXISTING ONSITE FLOW
V(EXISTING-6HR) = (0.44 X 18.0) / 12 = 0.66AC-FT EXISTING VOLUME

6.ALLOWABLE DISCHARGE RATE:
PER ATRISCO BUSINESS PARK MASTER DRAINAGE PLAN, SHEET 6 OF 10:
BASIN 220.3 Q(OUT) = 2.9CFS, AREA = 28.6AC IP ZONING
BASIN 220.4 Q(OUT) = 4.4CFS, AREA = 1.2AC FUTURE STREET
THESE BASIN BOUNDARYS SHOWN ON THE MASTER PLAN REELECT THE BOUNDARYS OF TRACTS C-1, C-2 AND C-3, AREA = 28.3AC, WILL HOLD THE AREA OF 28.3 AC AND WILL PRORATE THE FUTURE STREET RUNOFF FOR TRACTS C-1 AND C-2.
Q(OUT TRACTS C-1 AND C-2) = (18AC/28.3AC)X(2.9+4.4CFS)
Q(OUT TRACTS C-1 AND C-2) = 4.6CFS ALLOWABLE DISCHARGE RATE FOR THIS PROJECT

7. PROPOSED CONDITIONS ONSITE
DRAINAGE BASIN "A"
TOTAL AREA BASIN "A" =10.75AC
TREATMENT "B" = (487'X25') + (25'X747') + (860'X60') = 82,450SF = 1.89AC
TREATMENT "D" = (460'X748') + (238'X350')/2 = 385,730SF = 8.86AC

TREATMENT	AREA(ACRES)
A	0
B	1.89
C	0
D	8.86

Q(6-HR) = (2.03 X 1.89) + (4.37 X 8.86)= 42.55CFS PROPOSED ONSITE FLOW
V(6HR) = ((0.67 X 1.89) + (1.97 X 8.86)) / 12 = 1.56AC-FT 6 HR PROPOSEDVOLUME
V(24HR) = V(6HR) + AREA("D")X(24HR - 6HR)/12
V(24HR) = 1.56AC-FT + 8.86ACX(2.66IN - 2.20IN)/12 = 1.90AC-FT VOLUME REQUIRED
POND VOLUME PROVIDED - BASIN "A" (AVERAGE END AREA)
SECTION A-A, AREA = (6'X3')+(9'X3') = 45SF
SECTION B-B, AREA = (15'X5')+(15'X5') = 150SF
SECTION C-C, AREA = (14'X4')+(12'X4') = 104SF
SECTION D-D, AREA = (20'X3')+(9'X3')+(10'X0.5') = 92SF
VOLUME PROVIDED = (45SF+150SF)/2X414' + (150SF+104SF)/2X300' + (104SF+92SF)/2X100' = 88,265CF
=2.02ACFT > 1.90ACFT REQD.
SIZE INLET "A" AT SW CORNER BASIN "A"
BASIN "A" TO INLET = 4.68AC
TREATMENT "B" = (425'X25') + (460'X25') = 22,125SF = 0.51
TREATMENT "D" = (460'X395') = 181,700SF = 4.17AC Q(6HR) = (2.03 X 0.51) + (4.37 X 4.17)= 19.26CFS PROPOSED ONSITE FLOW TO INLET "A" CHECK ORIFICE CAPACITY:
ASSUME INLET SUBMERGED WITH 24" STORM DRAIN
Q = C x A x 2gh
H = 3.5'(INLET DEPTH) - 2.0'/2(HALF DIAMETER) = 2.5'
G = 32.2 FT/SEC2
C = 0.65 COEFFICIENT
A = 3.14 X (2.0X2.0)/4 = 3.14SF
Qcap = 0.65 x 3.14 x 2 x 32.2 x 2.5
Qcap = 25.90 CFS > 19.26 CFS
SIZE STORM DRAIN PIPE IN BASIN "A":
USE MANNING'S ANALYSIS PROGRAM
Q = 19.26 CFS, SLOPE = 2.5'/585' = 0.0043, n = 0.015
USE 27" ROUND PIPE MAIN LINE
Q(cap) = 21.8CFS > 19.26CFS(Required), V = 5.82fps

SIZE RUNDOWN IN BASIN "A":
Q = C x W x H**3/2
C = 3.0
H = 0.5
Q = 42.55 - 19.26CFS = 23.29CFS
W = Q / C x H**3/2
W = 23.29 / 3 x 0.5**2/3
W= 21.95 FEET USE 22' WIDE OPENING
PRORATE ALLOWABLE DISCHARGE RATE FOR BASIN "A":
Q(OUT) = (10.75AC/18.0AC)X(4.6CFS) = 2.75CFS ALLOWABLE DISCHARGE RATE FOR BASIN "A"
STANDPIPE CAPACITY FOR BASIN "A":
Q = C X A X (2XGXH)**1/2
Q(OUT) = 2.75CFS
H = 97.0 - 89.5 + (6/12)/2 = 7.75 FEET
C = 0.65, A = (3.14 X (D)**2) / 4
Solve for A = Q / C X (2XGXH)**1/2
A = 2.75 / 0.65 X (2X32.2X7.75)**1/2 = 0.19SF
D = (0.19 X 4/3.14)**1/2 = 0.49FT USE D = 6" ROUND ORIFICE

8.PROPOSED CONDITIONS ONSITE
DRAINAGE BASIN "B"
TOTAL AREA BASIN "B" = 3.97
TREATMENT "B" = 2275SF + (75'X412') + (70'X35')/2 = 34,400SF = 0.79AC
TREATMENT "D" = (195X153') - 2275SF + (325'X50') + (350'X230')/2 + (153'X350') - (773SF) + (55'X55')/2 = 138,350SF = 3.18AC

TREATMENT	AREA(ACRES)
A	0
B	0.79
C	0
D	3.18

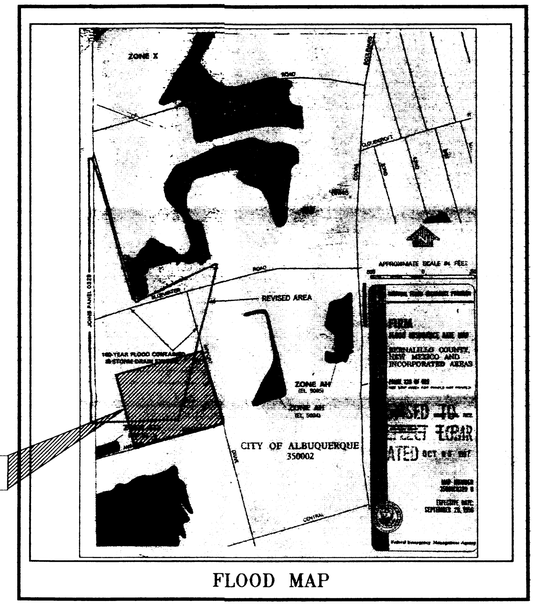
Q(6-HR) = (2.03 X 0.79) + (4.37 X 3.18)= 15.50CFS PROPOSED ONSITE FLOW
V(6HR) = ((0.67 X 0.79) + (1.97 X 3.18)) / 12 = 0.57AC-FT, 6 HR PROPOSED VOLUME
V(24HR) = V(6HR) + AREA("D")X(24HR - 6HR)/12
V(24HR) = 0.57AC-FT + 3.18ACX(2.66IN - 2.20IN)/12 = 0.69AC-FT VOLUME REQUIRED
POND VOLUME PROVIDED - BASIN "B" (AVERAGE END AREA)
SECTION D-D, AREA = (20'X3')+(9'X3') + (10'X0.5') = 92SF
SECTION E-E, AREA = (15'X3')+ (9'X3') + (7.5'X2') = 87SF
SECTION F-F, AREA = (10'X5')+(15'X3') = 125SF
VOLUME PROVIDED = (92SF+87F)/2X264' + (87SF+125SF)/2X70' = 31,048CF = 0.71ACFT > 0.69ACFT REQD.
SIZE INLET "B" AT NE CORNER BASIN "B"
PORTION BASIN "B" = 3.25AC

TREATMENT "B" = 2275SF = 0.05AC
TREATMENT "D" = (195X153') - 2275SF + (325'X50') + (350'X230')/2 + (153'X350') - (773SF) + (55'X55')/2 = 138,350SF = 3.18AC
Q(6-HR) = (2.03 X 0.05) + (4.37 X 3.18)= 14.00CFS PROPOSED ONSITE FLOW TO INLET "B"
CHECK ORIFICE CAPACITY:
ASSUME INLET SUBMERGED WITH 18" STORM DRAIN
Q = C X A X 2gh
H = 3.5'(INLET DEPTH) - 1.5/2(HALF DIAMETER) = 2.75'
G = 32.2 FT/SEC2
C = 0.65 COEFFICIENT
A = 3.14 X (1.5 X 1.5)/4 = 1.77SF
Qcap = 0.65 x 1.77 x 2 x 32.2 x 2.75
Qcap = 15.31 CFS > 14.00 CFS
SIZE STORM DRAIN PIPE IN BASIN "B":
USE MANNING'S ANALYSIS PROGRAM
Q = 14.00 CFS, SLOPE = 1.5'/195' = 0.0077, n = 0.015
USE 21" ROUND PIPE MAIN LINE
Q(Cap) = 15.0cfs > 14.0cfs(Required) V = 6.59FPS
PRORATE ALLOWABLE DISCHARGE RATE FOR BASIN "B": Q(OUT) = (3.97AC/18.0AC)X(4.6CFS) = 1.01CFS ALLOWABLE DISCHARGE RATE FOR BASIN "B"
STANDPIPE CAPACITY FOR BASIN "B":
Q = C X A X (2XGXH)**1/2
Q(OUT) = 1.01CFS
H = 97.0 - 91.5 + (6/12)/2 = 6.0 FEET
C = 0.65, A = (3.14 X (D)**2) / 4 Solve for A = Q / C X (2XGXH)**1/2
A = 1.01 / 0.65 X (2X32.2X6.0)**1/2 = 0.08SF
D = (0.08 X 4/3.14)**1/2 = 0.32FT USE D = 4" ROUND ORIFICE

9.PROPOSED CONDITIONS ONSITE
DRAINAGE BASIN "C"
TOTAL AREA BASIN "A" = 3.26AC
TREATMENT "B" = (397'X24') + (65'X365') + (25'X20') + (35'X30') + (22'X20') + (80'X12') + (20'X20') + (32'X67') + (12'X12') + (180'X21') + (4'X20') = 42,751SF = 0.98AC
TREATMENT "D" = (390'X195') - (25'X20') - (35'X30') (22'X20') - (80'X12') - (20'X20') + (197'X153') (32'X67') - (12'X12') - (180'X21') - (4'X20') + (55'X48')/2 + (32'X48') = 99,549SF = 2.28AC

TREATMENT	AREA(ACRES)
A	0
B	0.98
C	0
D	2.28

Q(6-HR) = (2.03 X 0.98) + (4.37 X 2.28)= 11.95CFS PROPOSED ONSITE FLOW
V(6HR) = ((0.67 X 0.98) + (1.97 X 2.28)) / 12 = 0.43AC-FT, 6 HR PROPOSEDVOLUME
V(24HR) = V(6HR) + AREA("D")X(24HR - 6HR)/12 V(24HR) = 0.43AC-FT + 2.28ACX(2.66IN - 2.20IN)/12 = 0.52AC-FT VOLUME REQUIRED
POND VOLUME PROVIDED - BASIN "C" (AVERAGE END AREA) SECTION G-G, AREA = (12'X3')+(9'X3') = 63SF
SECTION H-H, AREA = (3'X5')+ (5'X15') = 90SF
SECTION F-F, AREA = (3'X4.5')+(4.5'X13.5') = 74.3SF VOLUME PROVIDED = (63SF+90SF)/2X260' + (90SF+74.3SF)/2X43' = 23,422CF = 0.54ACFT > 0.52ACFT REQD.
PRORATE ALLOWABLE DISCHARGE RATE FOR BASIN "C":
Q(OUT) =(3.26AC/18.0AC)X(4.6CFS) = 0.83CFS ALLOWABLE DISCHARGE RATE FOR BASIN "C"
CHECK WEIR CAPACITY OF RUNDOWN AT BASIN "C":
Q = C W H** 3/2
SOLVE FOR W = WIDTH
H = 6 IN = 0.5FT NEW CURB HEIGHT PROPOSED
Q = 11.95CFS
C = 3.0
W = Q/CH**3/2
W = 11.95/3X0.5**3/2
W = 11.27 FEET USE 12 FEET WIDE OPENING
STANDPIPE CAPACITY FOR BASIN "C":
Q = C X A X (2XGXH)**1/2
Q(OUT) = 0.83CFS
H = 97.0 - 89.5 + (4/12)/2 = 7.83 FEET C = 0.65,
A = (3.14 X (D)**2) / 4
Solve for A = Q / C X (2XGXH)**1/2
A = 0.83 / 0.65 X (2X32.2X7.83)**1/2 = 0.06SF
D = (0.06 X 4/3.14)**1/2 = 0.27FT USE D = 3.5" ROUND ORIFICE



FLOOD MAP

VICINITY MAP

GILBERT ALBAN ARCHULETA 10648 NEW MEXICO REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	BY	DATE
	REVISION		

SWIFT

ALBUQUERQUE NEW MEXICO

DRAINAGE CALCULATIONS FLOOD MAP & VICINITY MAP

Drwn: AES
Chkd:
Scale: NONED
Date:

APPLIED Engineering & Surveying Inc.
1605 Blair Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1456

SHEET NO. CP-1

S.O. #19 FOR CONNECTING NEW PRIVATE STORM DRAINS INTO EXISTING CITY STORM DRAIN MANHOLES
NOTICE TO CONTRACTOR

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
2. ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH CITY OF ALBUQUERQUE INTERIM STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION, 1985.
3. TWO WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE, 765-1234, FOR LOCATION OF EXISTING UTILITIES.
4. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL CONSTRUCTIONS. SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY.
5. BACKFILL COMPACTION SHALL BE ACCORDING TO ARTERIAL STREET USE.
6. MAINTENANCE OF THE NEW TYPE "D" INLET AND NEW STORM STORM DRAIN SHOWN IN DETAIL "B" SHALL BE THE RESPONSIBILITY OF THE OWNER OF THIS PROPERTY.

APPROVALS	NAME	DATE
A.C.E DESIGN		
INSPECTOR		
A.C.E. FIELD		

LEGEND

- 5100 — CONTOUR MAJOR LINE (TYP.)
- 5099 — CONTOUR MINOR LINE (TYP.)
- CONCRETE CURB AND GUTTER
- WOOD FENCE
- CHAINLINK FENCE
- EDGE OF PAVEMENT
- POWER POLE
- FOUND MONUMENT
- SIGN
- SAS — SANITARY MANHOLE
- GUARD POST
- ST — STORM MANHOLE
- FOUND PROPERTY CORNER
- CO — CLEANOUT
- PIPE
- FIRE HYDRANT
- WM — WATER METER
- GM — GAS METER
- EVERGREEN TREE
- SMALL BUSHES
- DECIDUOUS TREE
- COMMUNICATION BOX
- CONDUIT
- IRRIGATION VALVE BOX
- 55.60TC / 55.60FL — TOP OF CONCRETE / FLOW LINE
- 56.78TA — TOP OF ASEHALT
- FF= 4957.00 — FINISH GRADE
- SLOPE DIRECTION

LEGEND

- EXISTING 6' HIGH CHAIN LINK FENCE
- NEW 6' HIGH CHAIN LINK FENCE
- NEW FENCE CONSITING OF MASONRY PILLAR AND WROUGHT IRON
- NEW TYPE "A" SUPER ELEVATED CURB
- NEW TYPE "B" COMBINED CURB & GUTTER
- CITY STANDARD CURB & GUTTER
- HEADER CURB

NORTH

50 0 25 50 100
(IN FEET)
1 inch = 50 ft.

CAUTION:
NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE 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 EXCAVATIONS, TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

ZONED "SU-1" PLANNED INDUSTRIAL PARK (RIO GRANDE SPLAY AND PACKAGING) PARCEL B, UNIT 2 TRISCO BUSINESS PARK FILED 2-07-1974; 06-21

ZONED "IP" (CURRENTLY UNDEVELOPED) PARCEL C-3, UNIT 2 ATRISCO BUSINESS PARK FILED 12-14-1994, BOOK 94C, FOLIO 413

ZONED "SU-1" (LUMBER DISTRIBUTION YARD) PLANNED INDUSTRIAL PARK

ZONED "SU-1" (CHURCH CAMPUS) TRACT A-1 LANDS OF VICTORY LOVE FELLOWSHIP CHURCH JOSEPH G. BERUMAN

ZONED "SU-1" (CHURCH CAMPUS) TRACT D LANDS OF VICTORY LOVE FELLOWSHIP CHURCH JOSEPH G. BERUMAN FILED 9-11-1985, C-28-51

ZONED "C-2" (ZANIOS FOODS) TRACT A-1-A-1 WEST 66 ADDITION FILED 10-29-1992, 92C-240

"SWIFT" FF=5102.00

SHOP AREA

OFFICE AREA

DETENTION POND "A"

DETENTION POND "B"

DETENTION POND "C"

STORM DRAIN LINE "A"

STORM DRAIN LINE "B"

STORM DRAIN LINE "C"

AIRPORT DRIVE NW (60 FT. WIDE R.O.W.)

REMOVE EXISTING ASPHALT PAVING WITHIN PROPERTY LIMITS

27.50' STORM DRAIN EASEMENT

25' PUBLIC SANITARY SEWER EASEMENT

19' PUBLIC WATER EASEMENT

10' PRIVATE UNDERGROUND DRAINAGE GRANTED TO THE OWNERS OF PARCEL B

MAINTAIN 12' WIDE CURB OPENING

ADJUST MH RIM TO ELEV. =5100.8

36" ROUND CMP STANDPIPE 91.5 BOTTOM OF POND

36" ROUND CMP STANDPIPE

328' TO BACK OF CURB

22' WIDE CONCRETE RUNDOWN

12' WIDE CONCRETE RUNDOWN

STORM INLET, SINGLE "D" PER CITY DWG. 2206 97.00 GRATE ELEV. 94.50 PIPE INVERT

STORM INLET, SINGLE "D" PER CITY DWG. 2206 94.50 PIPE INVERT

97.50GRATE 95.00INV.

97.0GRATE 130'-0"

EXISTING STORM INLETS

EXISTING STORM MH RIM EL=97.78 INV ℄ =83.33

S.D. MH RIM EL=00.97 INV ℄ =84.39

10' X 10' CONCRETE APRON

BASIN BOUNDARY

NO.	DESCRIPTION	BY	DATE
	REVISION		

GILBERT ALONZO ARCHULETA NEW MEXICO 10648 REGISTERED PROFESSIONAL ENGINEER

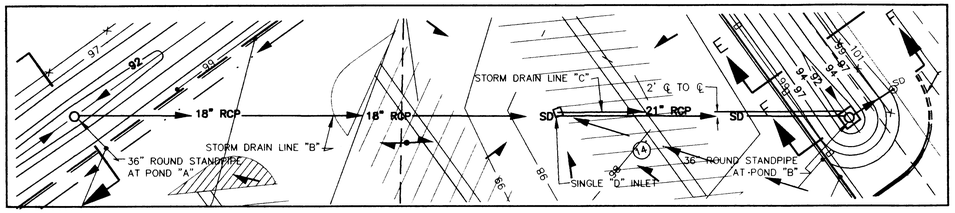
SWIFT ALBUQUERQUE NEW MEXICO

GRADING PLAN

Drawn: AES
Chkd:
Scale: NOTED
Proj:

APPLIED Engineering & Surveying Inc.
1605 Blair Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1456

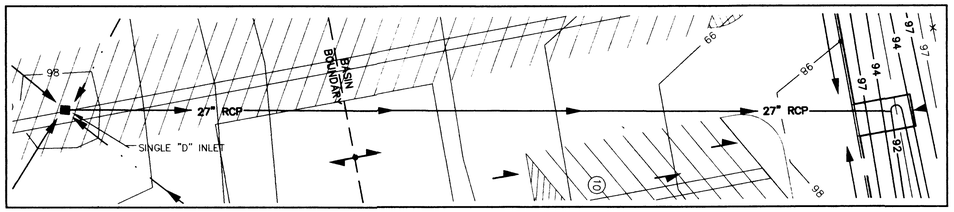
SHEET NO. CP-2



18" RCP STORM DRAIN LINE "B"
21" STORM DRAIN LINE "C"

SCALE 1"=50'

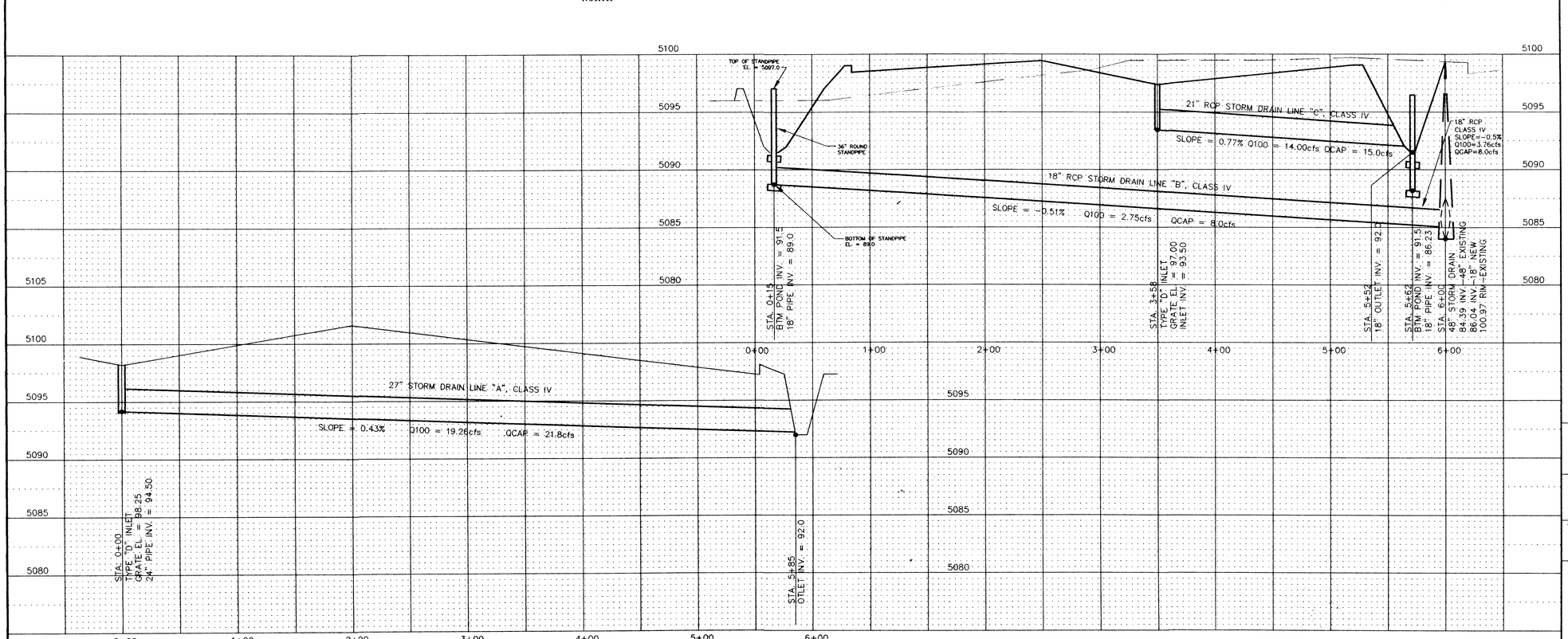
NORTH



27"RCP
STORM DRAIN LINE "A"

SCALE 1"=50'

NORTH



NORTH

50 0 25 50 100

(IN FEET)
1 inch = 50 ft.

APPLIED ENGINEERING AND SURVEYING, INC.
ENGINEERS AND PLANNERS
1605 Wall Drive NE Albuquerque, New Mexico 87112
Office (505) 2237-1406 Facsimile (505) 237-1406

CITY OF ALBUQUERQUE
PUBLIC WORKS DEPARTMENT
ENGINEERING DEVELOPMENT GROUP

TITLE:
STORM DRAIN PLAN AND PROFILE

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

City Project No. | Zone Map No. | Sheet Of CP-3

AS BUILT INFORMATION

CONTRACTOR — DATE
ENGINEER — DATE
STAKED BY
INSPECTOR'S ACCEPTANCE BY — DATE
FIELD VERIFICATION BY — DATE
AS-BUILTS CORRECTED BY — DATE

MICRO-FILM INFORMATION

RECORDED BY — DATE
NO.

BENCH MARKS

NM45-3A, CITY OF ALBUQUERQUE BENCH MARK STATION IS A 3/4" ALUMINUM TABLET STAMPED "NM-3A, 1984", SET FLUSH WITH THE ROAD. THE STATION IS LOCATED 31' SOUTH OF THE INTERSECTION OF OLD COORS BLVD. AND GONZALES ROAD ALONG THE CENTERLINE OF COORS.
X=362206.41, Y=1483333.25 ELEVATION = 5017.927

SURVEY INFORMATION

FIELD NOTES

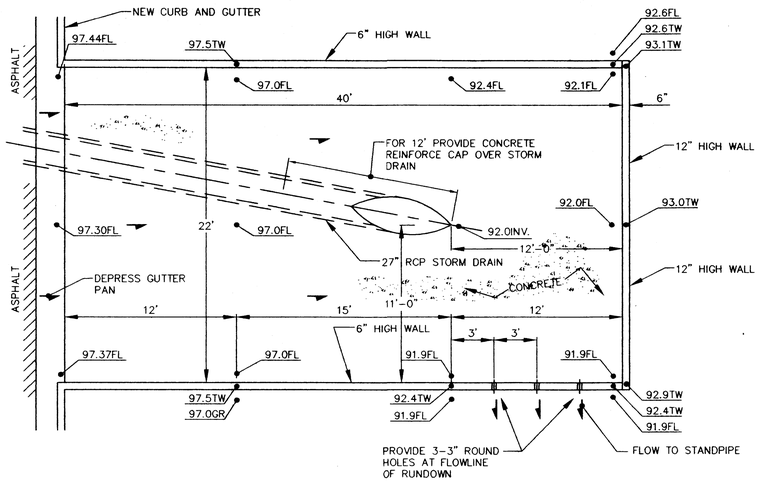
NO.	BY	DATE

ENGINEER'S SEAL

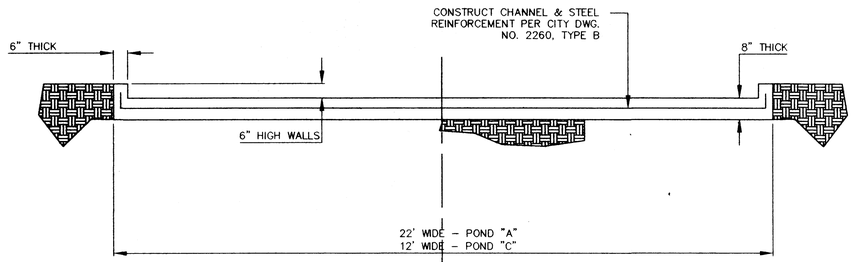
REGISTERED PROFESSIONAL ENGINEER

NO.	DATE	REMARKS	BY
		REVISIONS	
		DESIGN	
DESIGNED BY	AES		DATE 1/01
DRAWN BY	AES		DATE 1/01
CHECKED BY	AES		DATE 1/01

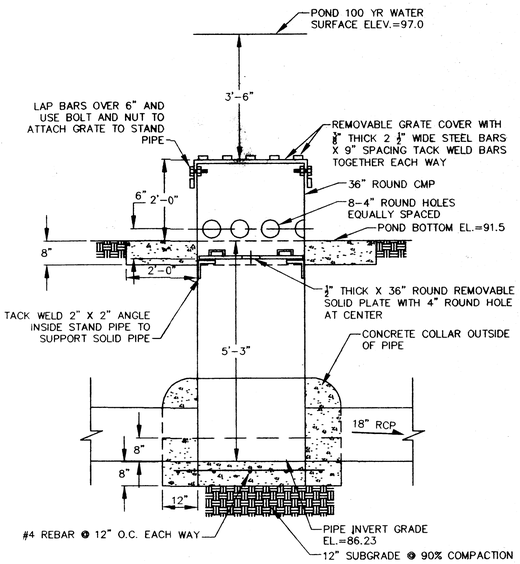
GENERAL NOTES



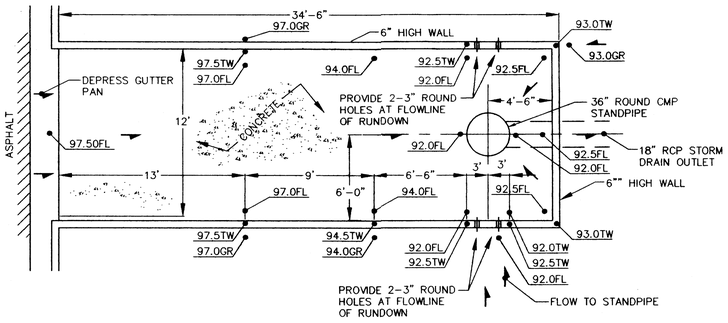
RUNDOWN - PLAN VIEW
DETENTION POND "A"
SCALE 1"=5'-0"



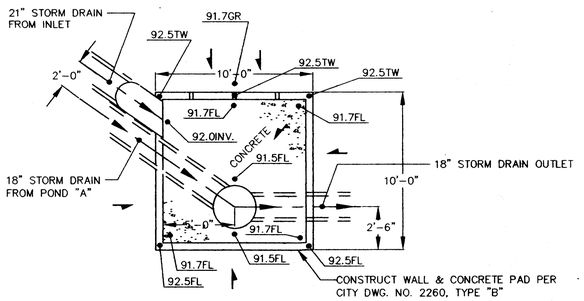
TYPICAL
RUNDOWN SECTION
SCALE 1"=2'-6"



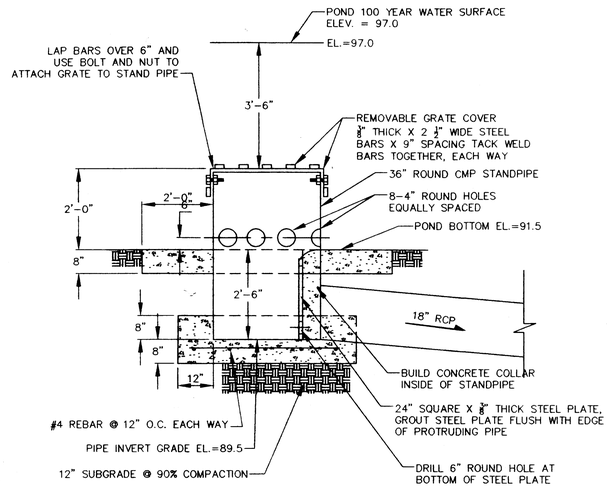
36" ROUND CORRUGATED
STAND PIPE AT POND "B"
SCALE 1/2"=1'-0"



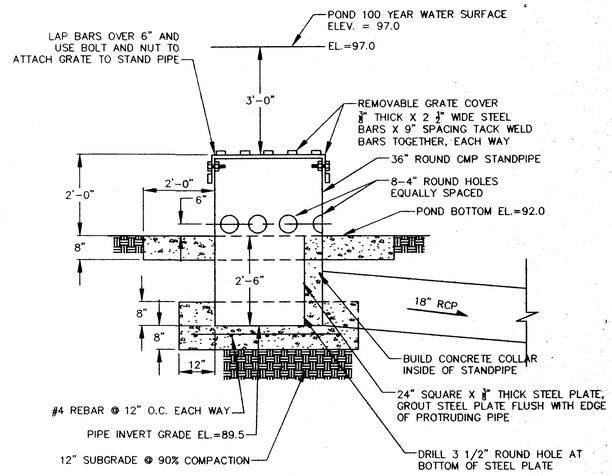
RUNDOWN - PLAN VIEW
DETENTION POND "C"
SCALE 1"=5'-0"



OUTLET - PLAN VIEW
DETENTION POND "B"
SCALE 1"=5'-0"



36" ROUND CORRUGATED
STAND PIPE AT POND "A"
SCALE 1/2"=1'-0"



36" ROUND CORRUGATED
STAND PIPE AT POND "C"
SCALE 1/2"=1'-0"

GILBERT ALAN ORTEGA NEW MEXICO 10848 REGISTERED PROFESSIONAL ENGINEER

NO.	DESCRIPTION	BY	DATE
	REVISION		

SWIFT
ALBUQUERQUE
NEW MEXICO

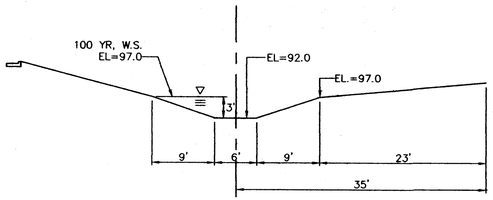
DRAINAGE DETAILS

Drwn. ABS
Chkd. ____
Date ____
Rev. ____

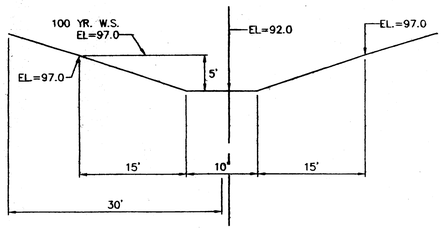
APPLIED Engineering & Surveying Inc.
1605 Blair Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1488

SHEET NO.
CP-4

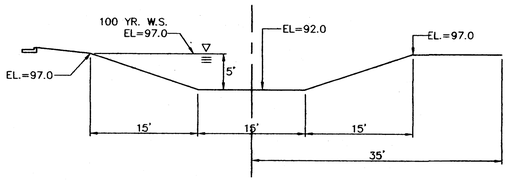
GENERAL NOTES



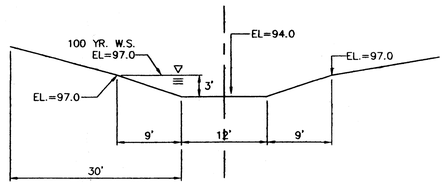
SECTION A–A
SCALE 1"=10'–0"



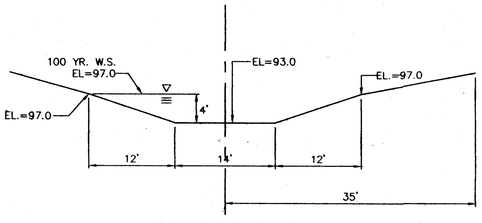
SECTION F–F
SCALE 1"=10'–0"



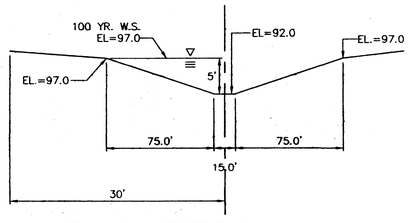
SECTION B–B
SCALE 1"=10'–0"



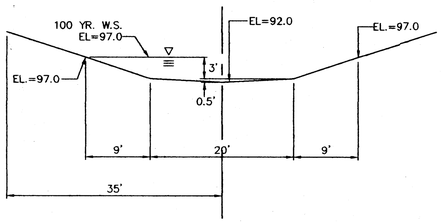
SECTION G–G
SCALE 1"=10'–0"



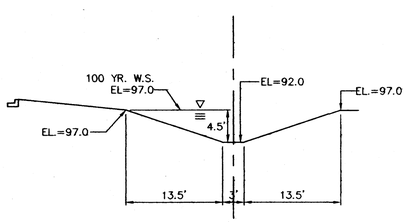
SECTION C–C
SCALE 1"=10'–0"



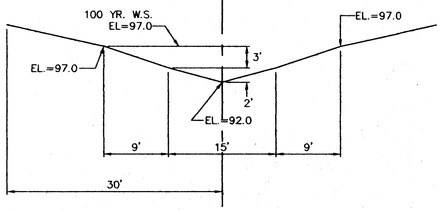
SECTION H–H
SCALE 1"=10'–0"



SECTION D–D
SCALE 1"=10'–0"



SECTION I–I
SCALE 1"=10'–0"



SECTION E–E
SCALE 1"=10'–0"

CAUTION:

NOTE THAT ALL EXISTING UTILITIES MAY NOT BE SHOWN. ALL EXISTING SERVICE CONNECTIONS ARE NOT SHOWN. ANY EXISTING UTILITIES THAT ARE SHOWN ARE 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 EXCAVATIONS TO DETERMINE THE ACTUAL LOCATION OF UTILITIES AND OTHER IMPROVEMENTS.

NO.	DESCRIPTION	BY	DATE
	REVISION		

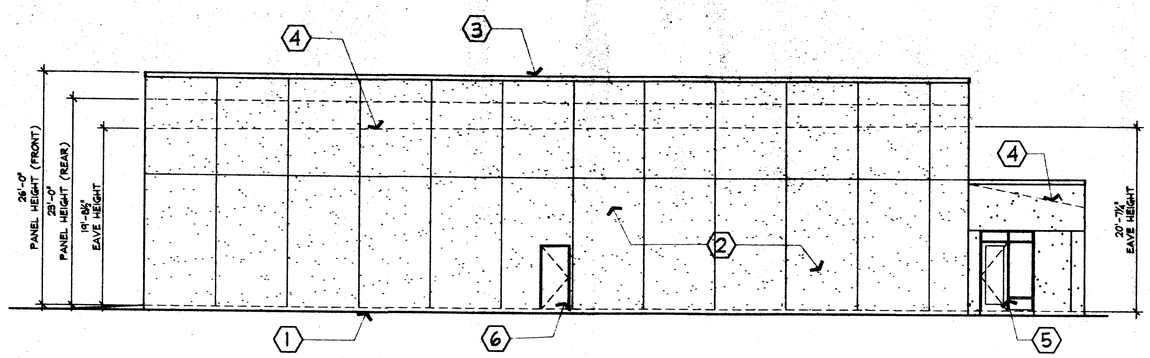
SWIFT

ALBUQUERQUE
NEW MEXICO

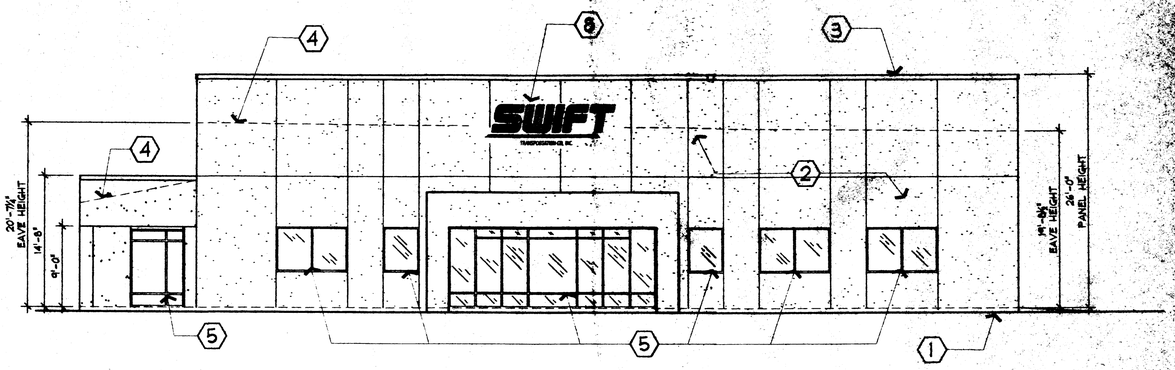
DRAINAGE POND SECTIONS

APPLIED Engineering & Surveying Inc.
1605 Blair Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1488

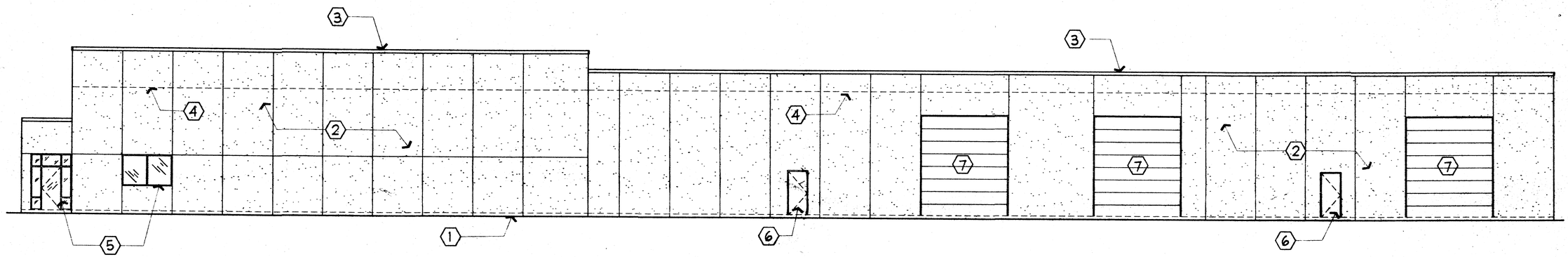
SHEET NO.
CP–5



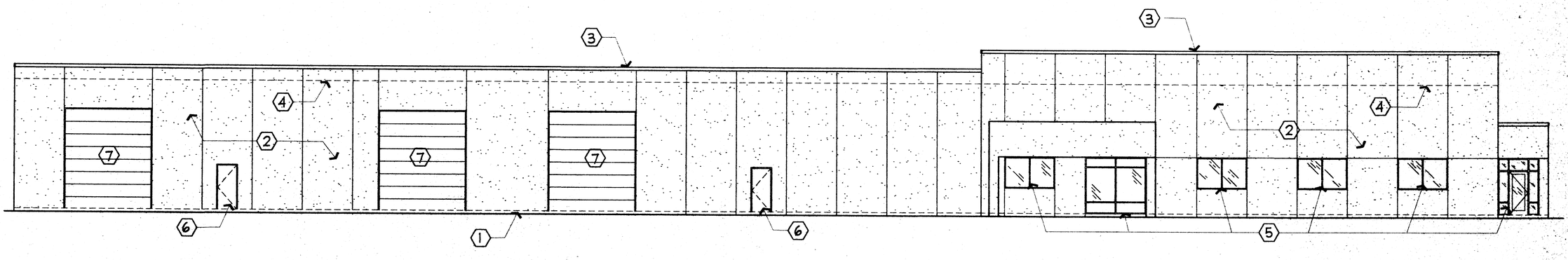
REAR ELEVATION
SCALE 1/8"=1'-0"



FRONT ELEVATION
SCALE 1/8"=1'-0"



RIGHT SIDE ELEVATION
SCALE 1/8"=1'-0"



LEFT SIDE ELEVATION
SCALE 1/8"=1'-0"

KEYED NOTES

1. GRADE OR PAVEMENT SURFACE.
2. CONCRETE TILT UP WALL PANEL. COLOR TO BE TAN WITH BLUE PARAPET CAP.
3. METAL PARAPET CAP. COLOR TO BE BLUE.
4. ROOF LINE BEYOND.
5. DARK BRONZE ALUMINUM FRAME WINDOW AND DOOR SYSTEM.
6. HOLLOW METAL DOOR AND FRAME. COLOR TO BE BLUE.
7. SECTIONAL OVERHEAD GARAGE DOOR. COLOR TO BE BLUE.
8. BUILDING MOUNTED METAL SIGN.

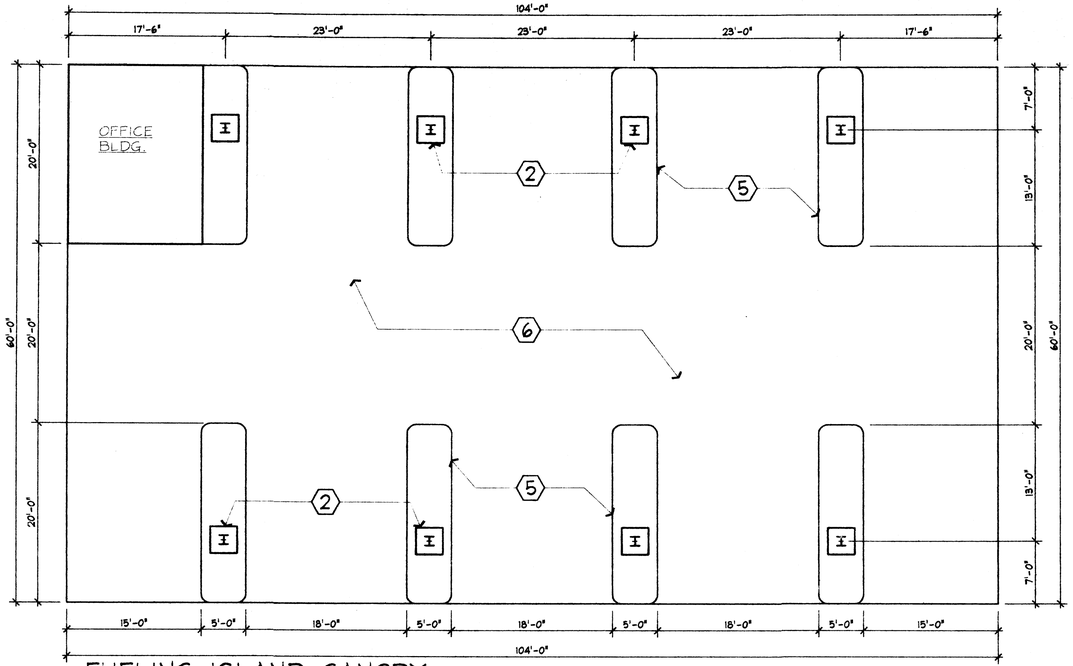
NO.	DESCRIPTION	BY	DATE
	REVISION		

SWIFT

EXTERIOR ELEVATIONS

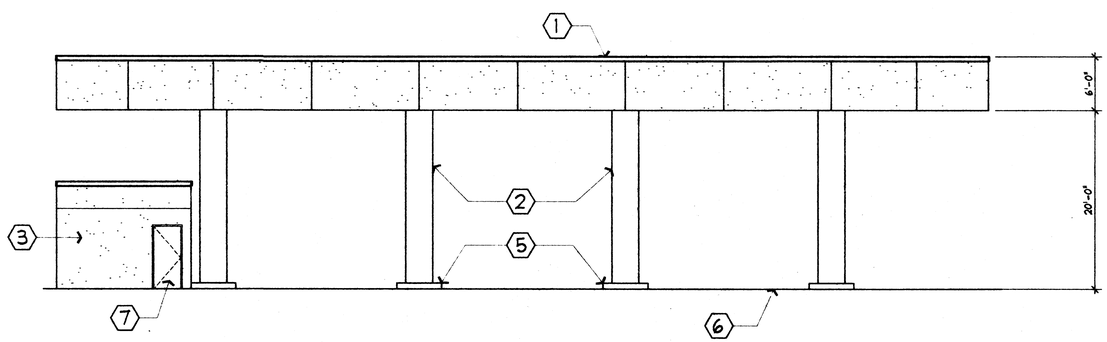
Roger & Sons Construction, Inc.
Industrial Commercial
4715 Euclid Avenue
East Chicago, Indiana 46312-0358
Phone (219) 397-8879 Fax (219) 397-1040

SHEET No. EP-1



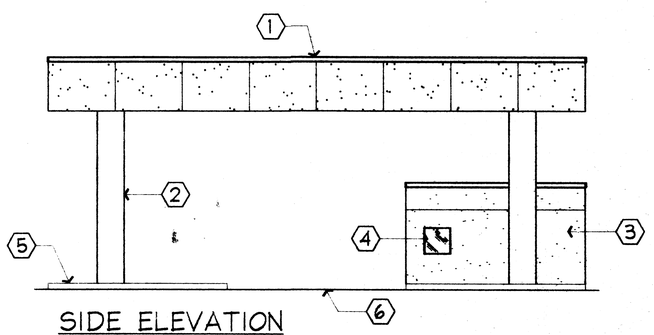
FUELING ISLAND CANOPY

SCALE 1/8"=1'-0"



FUELING ISLAND ELEVATION

SCALE 1/8"=1'-0"



SIDE ELEVATION

SCALE 1/8"=1'-0"

KEYED NOTES

1. STUCCO FINISH METAL FASCIA PANEL. COLOR TO BE TAN WITH BLUE PARAPET CAP.
2. COLUMN COVER. COLOR TO BE BLUE.
3. STUCCO FINISH CMU WALL FOR OFFICE BUILDING.
4. HOLLOW METAL WINDOW FRAME WITH CLEAR GLAZING.
5. CONCRETE FUELING ISLAND.
6. PAVEMENT OR GRADE SURFACE.
7. HOLLOW METAL DOOR FRAME AND DOOR. COLOR TO BE BLUE.

NO.	DESCRIPTION	BY	DATE
	REVISION		

SWIFT

CANOPY PLAN & ELEVATIONS

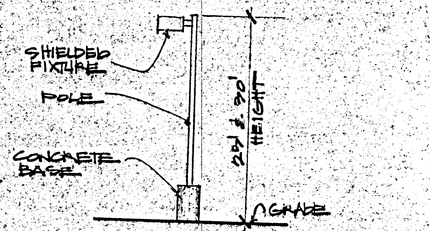
Roger & Sons Construction, Inc.
Industrial Commercial
4715 Euclid Avenue
East Chicago, Indiana 46312-0358
Phone (219) 397-3819 Fax (219) 397-1010

Drwn
Chkd
Scale NOTED
Date

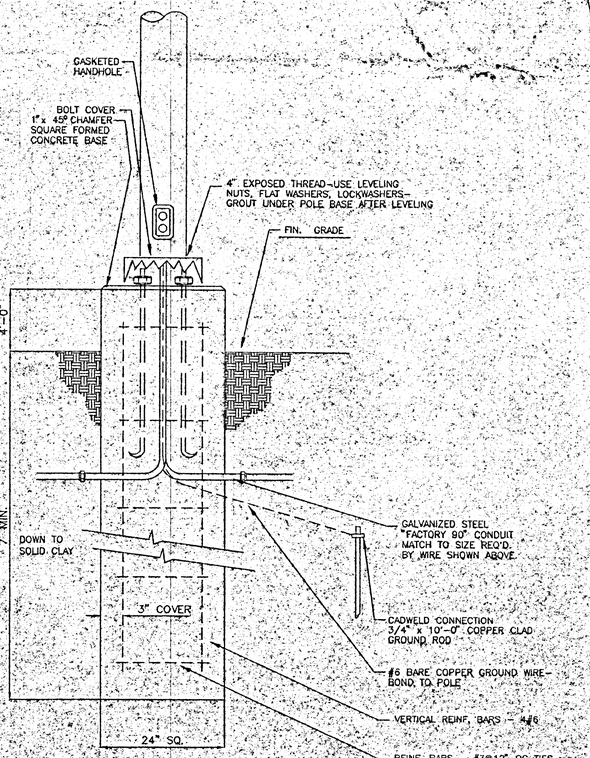
SHEET NO.
EP-2

SITE LIGHTING:
LIGHTING SHALL BE STANDARD MOUNTED, BUILDING MOUNTED AND BOLLARD TYPE AND LOCATED SO AS NOT TO GLARE ONTO ADJACENT SITES. STREET LIGHTS SHALL BE 30 TO 40 FEET HIGH AND LOCATED PER MASTER DEVELOPMENT PLAN REQUIREMENTS. PARKING LOT LIGHTING SHALL BE 20 TO 30 FEET HIGH AND LOCATED TO MAXIMIZE PUBLIC AND EMPLOYEE SAFETY. AREA LIGHTING AND DOCK AREA LIGHTING SHALL USE STANDARDS 10 TO 15 FEET IN HEIGHT. THE USE OF WALKWAY LEVEL LIGHTING, SUCH AS BOLLARD LIGHTS OR WALL BOKET LIGHTS SHOULD BE USED FOR PEDESTRIAN ZONES, PLANTER AND BUILDING. SIGNAGE SHALL BE HIGHLIGHTED WITH LANDSCAPE SPOT LIGHTING. LIGHTING SHALL BLEND WITH THE ARCHITECTURAL CHARACTERISTICS OF THE BUILDING.

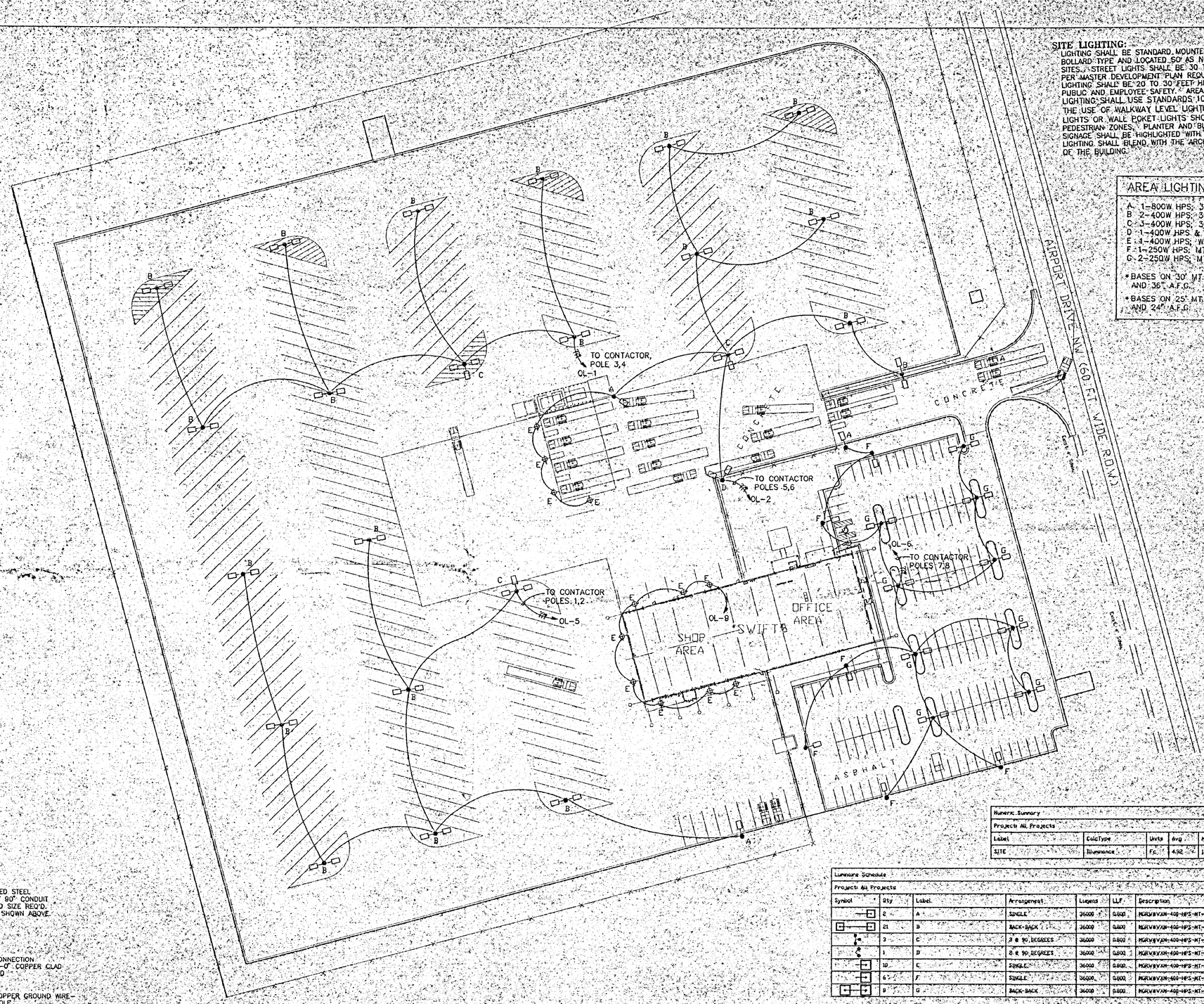
AREA LIGHTING
A: 1-800W HPS; 30' MT. HT.
B: 2-400W HPS; 30' MT. HT.
C: 3-400W HPS; 30' MT. HT.
D: 1-400W HPS & 1-100W METAL HALIDE @ 30'
E: 1-400W HPS; WALL MT. AT 24'+
F: 1-250W HPS; MT. HT. 25'
G: 2-250W HPS; MT. HT. 25'
*BASES ON 30' MT. HT. TO BE 24" DIA. AND 36" A.F.G.
*BASES ON 25' MT. HT. TO BE 12" DIA. AND 24" A.F.G.



LIGHT POLE DETAIL
N.T.S.



LIGHT POLE BASE DETAIL
SCALE: NO SCALE



NORTH
50 0' 50 100
(IN FEET)
1 inch = 50 ft

Numeric Summary							
Projects All Projects							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	4.92	16.7	0.7	7.03	23.86

Luminaire Schedule						
Projects All Projects						
Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	2	A	SINGLE	36000	0.800	MGRV8VXH-400-HPS-MT-3F
	21	B	BACK-BACK	36000	0.800	MGRV8VXH-400-HPS-MT-3F
	3	C	3 @ 90 DEGREES	36000	0.800	MGRV8VXH-400-HPS-MT-3F
	1	D	2 @ 90 DEGREES	36000	0.800	MGRV8VXH-400-HPS-MT-3F
	10	E	SINGLE	36000	0.800	MGRV8VXH-400-HPS-MT-3F
	6	F	SINGLE	36000	0.800	MGRV8VXH-400-HPS-MT-3F
	9	G	BACK-BACK	36000	0.800	MGRV8VXH-400-HPS-MT-3F

NO.	DESCRIPTION	BY	DATE
REVISION			

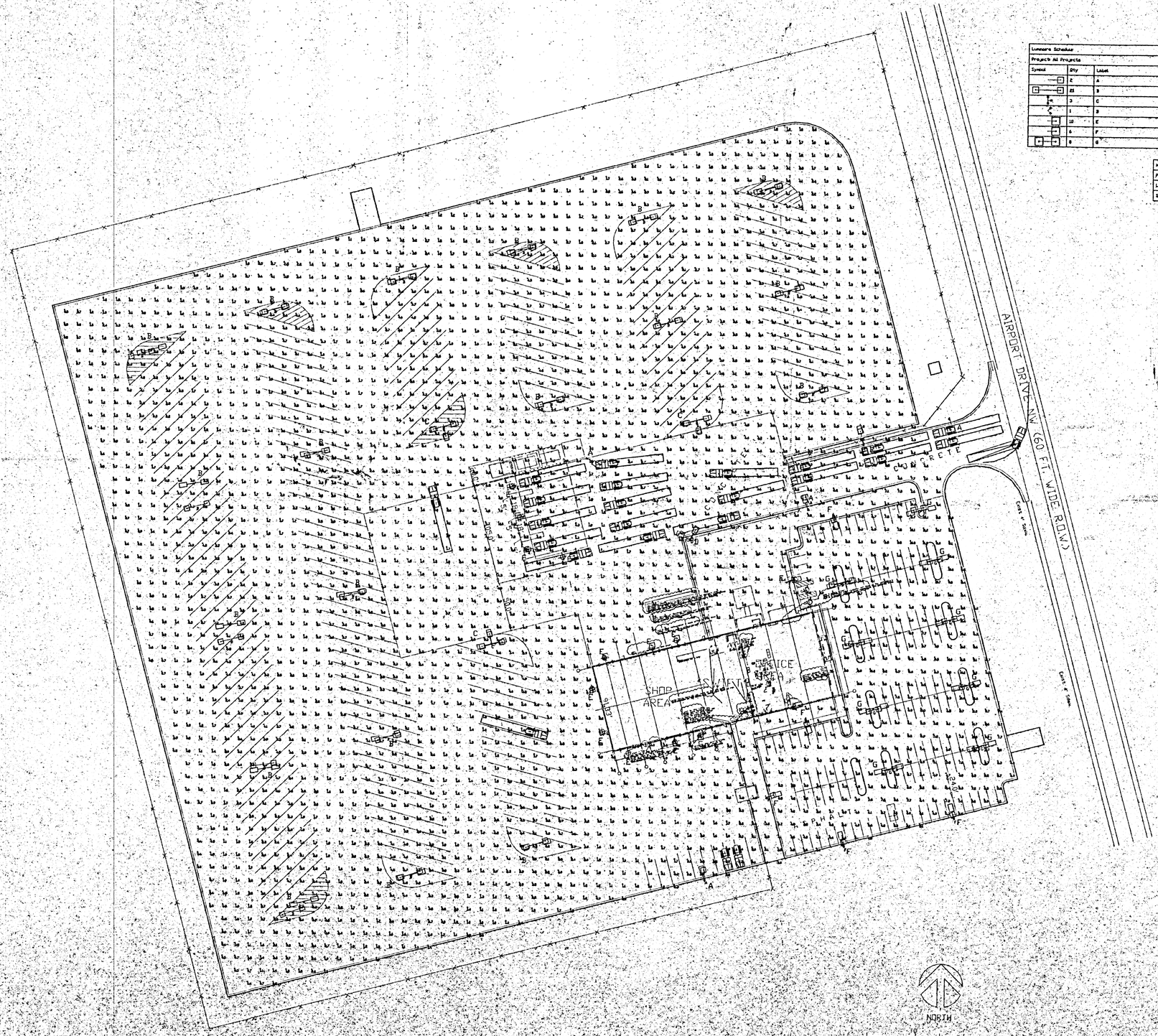
SWIFT
ALBUQUERQUE NEW MEXICO

SITE LIGHTING PLAN

Drwn
Cmd
Date

APPLIED Engineering & Surveying, Inc.
1605 Blair Drive, NE
Albuquerque, New Mexico 87112
Phone (505) 237-1456

SHEET NO.
LTP.1



Luminaire Schedule

Project: All Projects

Symbol	Qty	Label	Arrangement	Lumens	LLF	Description
	2	A	SINGLE	27300	0.900	MUSKEGON-250-HPS-MT-3F
	23	B	BACK-BACK	27300	0.900	MUSKEGON-250-HPS-MT-3F
	3	C	3 @ 90 DEGREES	27300	0.900	MUSKEGON-250-HPS-MT-3F
	1	D	2 @ 90 DEGREES	27300	0.900	MUSKEGON-250-HPS-MT-3F
	10	E	SINGLE	27300	0.900	MUSKEGON-250-HPS-MT-3F
	6	F	SINGLE	27300	0.900	MUSKEGON-250-HPS-MT-3F
	9	G	BACK-BACK	27300	0.900	MUSKEGON-250-HPS-MT-3F

Numeric Summary

Project: All Projects

Label	Calctype	Units	Avg	Max	Min	Avg/Min	Max/Min
SITE	Illuminance	Fc	3.36	12.4	1.7	1.98	7.29

Luminaire Location Summary

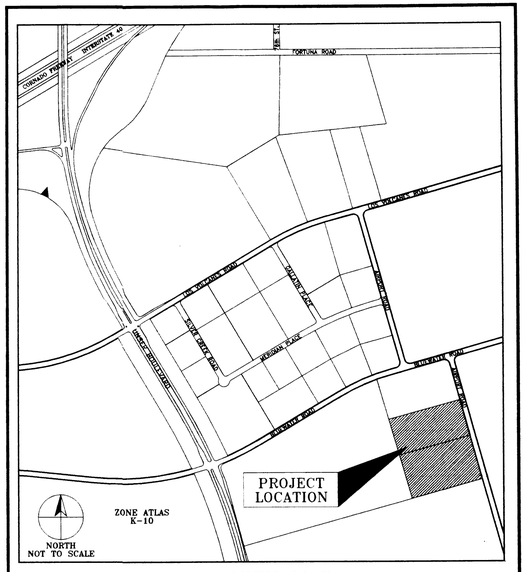
Project: All Projects

SeqNo	Label	X	Y	Z	Orient	Tilt
2	B	278028	1114467	30	15.250	0
3	B	278199	1114458	30	15.250	0
4	B	278383	1114476	30	15.250	0
5	B	278326	1114288	30	15.250	0
6	B	278125	1114266	30	15.250	0
7	B	278154	1114286	30	15.250	0
18	B	278376	1114506	30	15.250	0
11	B	278474	1114368	30	15.250	0
12	B	278489	1114442	30	15.250	0
13	B	278296	1114421	30	15.250	0
14	B	278108	1114369	30	15.250	0
23	B	278299	1114314	30	19.604	0
30	A	278422	1113998	30	180.31	0
31	B	278302	1113989	30	19.604	0
34	B	278183	1114096	30	19.604	0
35	C	278263	1114169	30	203.496	0
36	C	278022	1114338	30	285.243	0
13	B	278534	1114121	30	14.836	0
64	F	278529	1114113	30	165.943	0
65	F	278479	1114053	30	24.778	0
66	F	278624	1114038	30	11.246	0
67	F	278493	1114222	30	1.31	0
69	F	278526	1114179	30	287.326	0
38	A	278307	1114179	30	103.24	0
39	B	278416	1114253	30	107.869	0
17	G	278618	1114193	30	13.353	0
28	G	278632	1114142	30	12.395	0
21	G	278644	1114095	30	17.182	0
39	F	278307	1114114	30	287.304	0
48	E	278353	1114157	30	104.036	0
41	E	278369	1114166	30	105.263	0
42	E	278407	1114172	30	99.782	0
43	E	278429	1114183	30	673.446	0
44	E	278405	1114098	30	280.343	0
45	E	278352	1114163	30	199.44	0
46	E	278343	1114136	30	280.308	0
48	B	278549	1114331	30	284.836	0
19	G	278560	1114128	30	14.836	0
62	G	278573	1114076	30	15.249	0
58	C	278419	1114343	30	280.671	0
31	C	278288	1114293	30	191.869	0
33	C	278294	1114244	30	192.338	0
34	C	278286	1114278	30	286.491	0
35	B	278111	1113969	30	19.604	0
36	B	278087	1114072	30	8.13	0
37	B	278068	1114178	30	15.238	0
39	B	2a9397	1114234	30	15.238	0
60	B	278038	1114273	30	15.238	0
61	G	278293	1114279	30	14.836	0
18	G	278546	1114174	30	8.13	0
64	G	278606	1114229	30	14.836	0

SWIFT TRUCKING
#
6-15-01 REV. 0
SCHROEDER SALES, INC.
ALBUQUERQUE, NM
505-764-1850

PROPOSED TRANSPORTATION FACILITY FOR SWIFT TRANSPORTATION AT AIRPORT DRIVE, SOUTH OF BLUEWATER ROAD ALBUQUERQUE, NEW MEXICO

INDEX OF DRAWINGS



VICINITY MAP

NO.	DESCRIPTION	BY	DATE

REVISION

ALBUQUERQUE NEW MEXICO

TITLE SHEET

Drwn AES
Chkd
Scale NOTED
Date

APPLIED Engineering & Surveying Inc.
1605 Blair Drive NE
Albuquerque, New Mexico 87112
Phone (505) 237-1456

SHEET NO. TP-1