

VICINITY MAP K22

FIRM PANEL NO. 03590

GRADING/DRAINAGE PLAN

THE FOLLOWING ITEMS CONCERNING (416 JUAN TABO BLVD. N.E.) LOT 10A, BLOCK 2 OF LA CUESTA SUBDIVISION, BERNALILLO COUNTY, CITY OF ALBUQUERQUE ARE CONTAINED HEREON:

EXISTING CONDITIONS

AS SHOWN BY THE VICINITY MAP, THE SITE CONTAINS 0.2819 ACRES MORE OR LESS AND IS LOCATED NORTH OF HOPI RD. N.E. AND EAST OF JUAN TABO BLVD. N.E. IN ITS PRESENT CONDITION, THE SITE CONTAINS AN EXISTING BUILDING (WHICH WILL BE DEMOLISHED) AND ASSOCIATED PAVED AND LANDSCAPED AREAS. THE SITE SLOPES FROM EAST TO WEST. ACCORDING TO THE FLOOD INSURANCE RATE MAP, PANEL 0359D, DATED SEPTEMBER 20,1996, THIS SITE IS NOT LOCATED WITHIN A DESIGNATED FLOOD ZONE.

PROPOSED CONDITIONS

AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF A NEW BUILDING (TO REPLACE THE EXISTING ONE) ALONG WITH ASSOCIATED PAVED AND LANDSCAPED AREAS. THE DEVELOPED RUN-OFF WILL BE ROUTED TOWARDS AND OUT THROUGH THE PROPOSED NEW DRIVEPAD. A DECREASE OF 0.01 CFS HAS OCCURRED BECAUSE OF ADDITIONAL LANDSCAPING. THE CALCULATIONS, WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II DESIGN CRITERIA DATED 1997. HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

PROJECT AREA = 0.2819 ac.

SILVER NUGGET JEWELRY

ZONE 3

PRECIPITATION: 360 = 2.60 in.
1440 = 3.1 in.
10day = 4.9 in.

EXCESS PRECIPITATION:PEAK DISCHARGE:

TREATMENT A	0.66 in.	1.87 cfs/ac.
TREATMENT B	0.92 in.	2.6 cfs/ac.
TREATMENT C	1.29 in.	3.45 cfs/ac.
TREATMENT D	2.36 in.	5.02 cfs/ac.

EXISTING CONDITIONS:PROPOSED CONDITIONS:

TREATMENT A	0 ac.	0 ac.
TREATMENT B	0 ac.	0 ac.
TREATMENT C	0.03 ac.	0.03492 ac.
TREATMENT D	0.2519 ac.	0.24698 ac.

EXISTING EXCESS PRECIPITATION:

$$\text{Weighted } E = (0.66 \times 0.00) + (0.92 \times 0.00) + (1.29 \times 0.03) + (2.36 \times 0.25) / 0.28 \text{ ac.} = 2.25 \text{ in.}$$

$$V_{100-360} = (2.25 \times 0.28) / 12 = 0.052765 \text{ ac-ft} = 2298 \text{ CF}$$
EXISTING PEAK DISCHARGE:

$$Q_{100} = (1.87 \times 0.00) + (2.60 \times 0.00) + (3.45 \times 0.03) + (5.02 \times 0.25) = 1.37 \text{ CFS}$$
PROPOSED EXCESS PRECIPITATION:

$$\text{Weighted } E = (0.66 \times 0.00) + (0.92 \times 0.00) + (1.29 \times 0.03) + (2.36 \times 0.25) / 0.28 \text{ ac.} = 2.23 \text{ in.}$$

$$V_{100-360} = (2.23 \times 0.28) / 12.0 = 0.052327 \text{ ac-ft} = 2279 \text{ CF}$$

$$V_{100-1440} = (0.05) + (0.25 \times (3.10 - 2.60) / 12 = 0.062617 \text{ ac-ft} = 2728 \text{ CF}$$

$$V_{100-10\text{day}} = (0.05) + (0.25 \times (4.90 - 2.60) / 12 = 0.099664 \text{ ac-ft} = 4341 \text{ CF}$$
PROPOSED PEAK DISCHARGE:

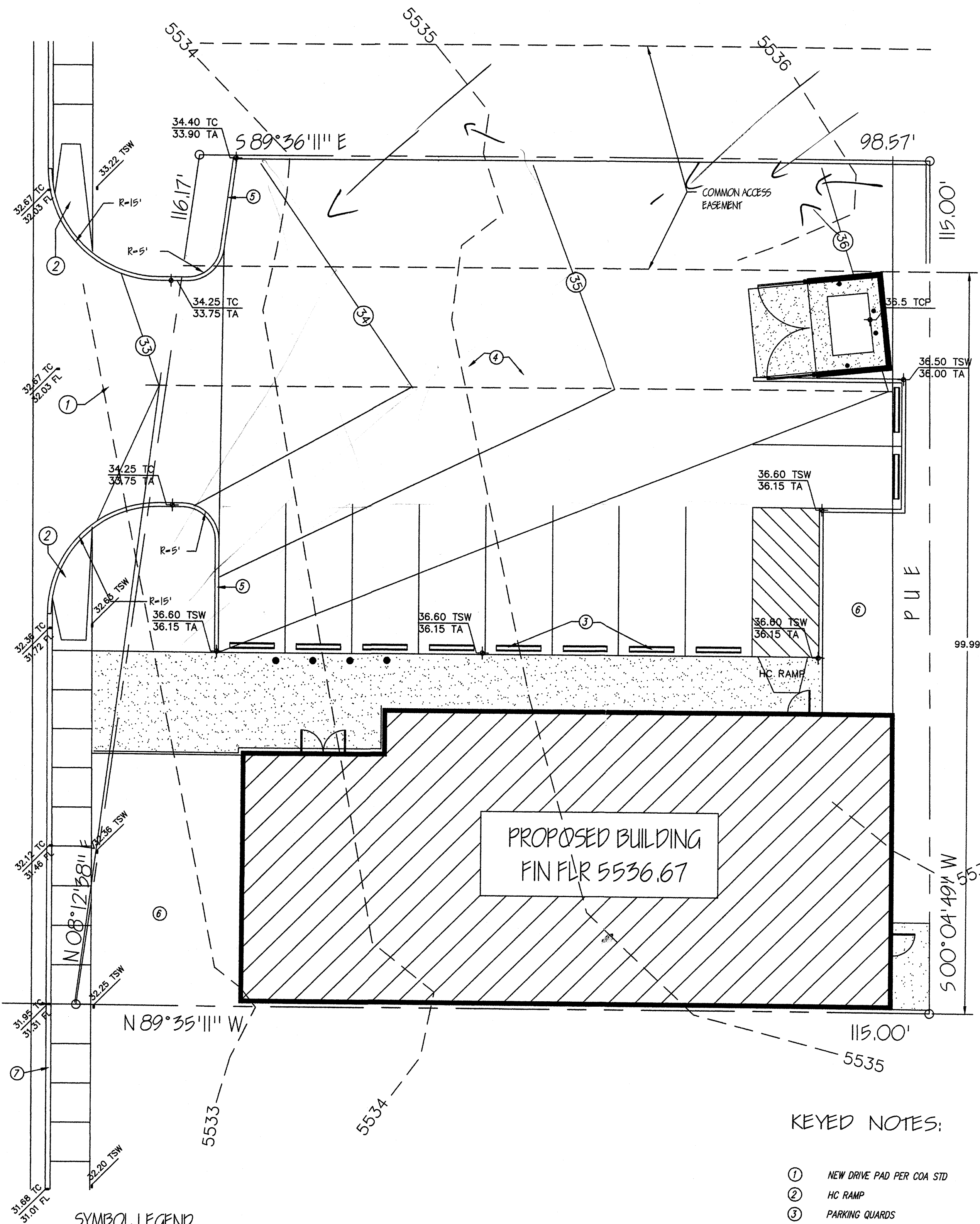
$$Q_{100} = (1.87 \times 0.00) + (2.60 \times 0.00) + (3.45 \times 0.03) + (5.02 \times 0.25) = 1.36 \text{ CFS}$$

DECREASE 1.37 CFS - 1.36 CFS = 0.01 CFS

NOTICE TO CONTRACTOR

1. An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
2. All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works Construction.
3. Two working days prior to any excavation, contractor must contact line locating Services for locating existing utilities, (260-1990).
4. Prior to construction, the contractor shall excavate and verify the horizontal and vertical location of all construction. 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 Commercial use.
6. All work on this project shall be performed in accordance with applicable Federal, State and local laws, rules and regulations concerning construction safety and health.
7. Maintenance of this facilities shall be the responsibility of the owner of the property served.

T.B.M. PROJECTION OF S.W. PROPERTY LINE
M.S.L. ELEVATION: 5531.95 TOP OF CURB

SYMBOL LEGEND

EXISTING CONTOUR

DESIGN CONTOUR

PROPOSED SPOT ELEVATION

PROPERTY LINE

EASEMENT LINE

FLOW DIRECTION

EXISTING SPOT ELEVATION

DOWN SPOUT (NO TO SCALE)

ABBREVIATION LEGEND

TOP OF CONC PAD	- TC
TOP OF CURB	- TA
TOP OF ASPHALT	- TC
TOP OF CURB	- TA
TOP OF ASPHALT	- FL



0' 5' 10' 20'

GRADING & DRAINAGE PLANKEYED NOTES:

- 1 NEW DRIVE PAD PER COA STD
- 2 HC RAMP
- 3 PARKING QUARDS
- 4 NEW ASPHALT
- 5 6" HIGH CONCRETE HEADER CURB
- 6 LANDSCAPING
- 7 EXISTING CURB & GUTTER

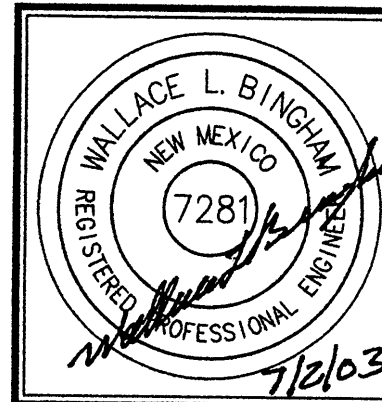
LEGAL DESCRIPTION

LOT 10-A, BLOCK 2, LA CUESTA SUBDIVISION

BENCHMARK

" A.C.S. STATION 9-K21, M.S.L.D.
ELEVATION: 5530.096

T.B.M. TOP OF CURB PROJECTION OF
SOUTHWEST PROPERTY CORNER
M.S.L.D. ELEVATION: 5531.95



JOB NO: XXXXXXXX

JUNE 2003

REVISIONS

GRADING & DRAINAGE PLAN

Sheet Title

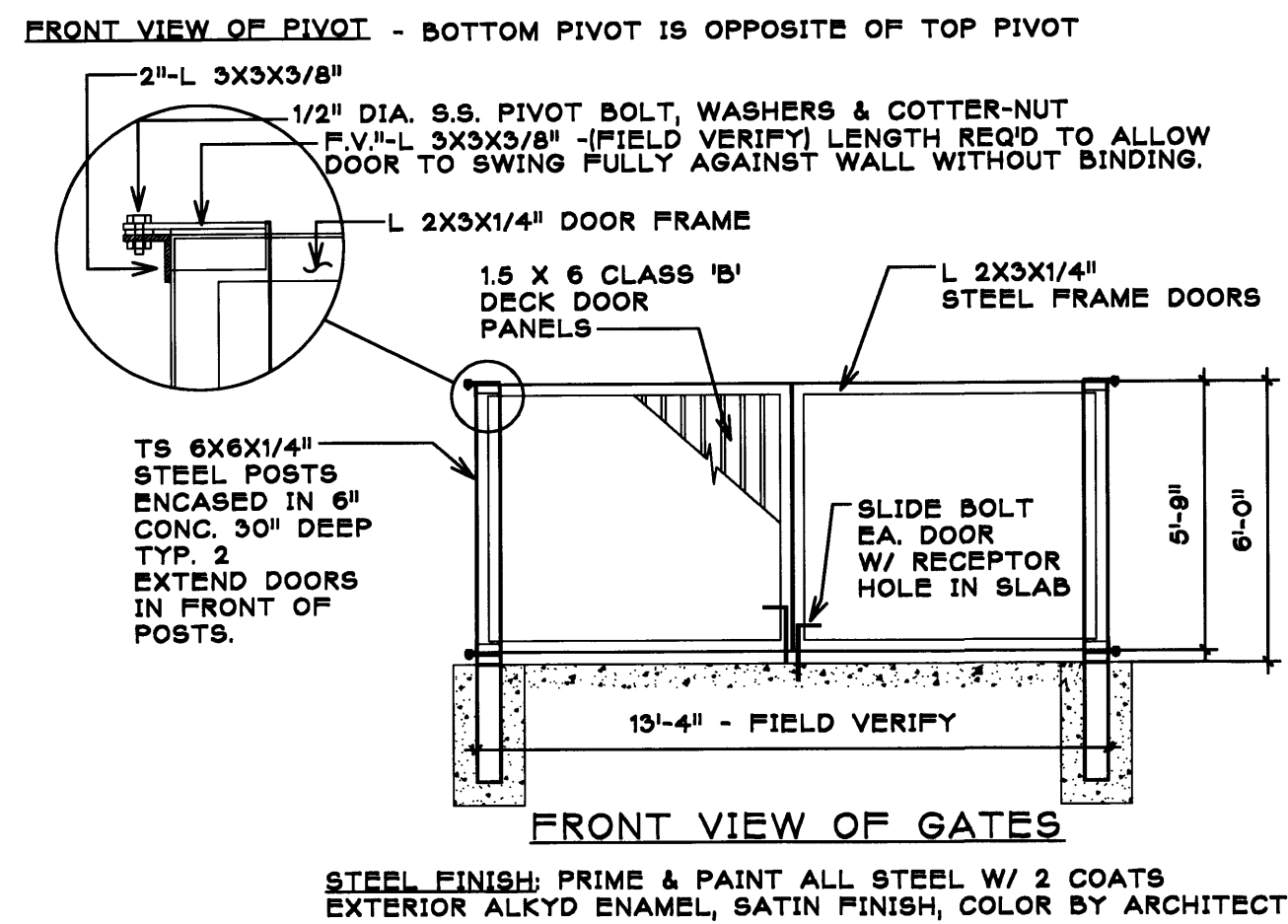
Drawn By: H. Wood & B. J. Montoya Checked By:



Project Name
SILVER NUGGET
416 JUAN TABO BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87112

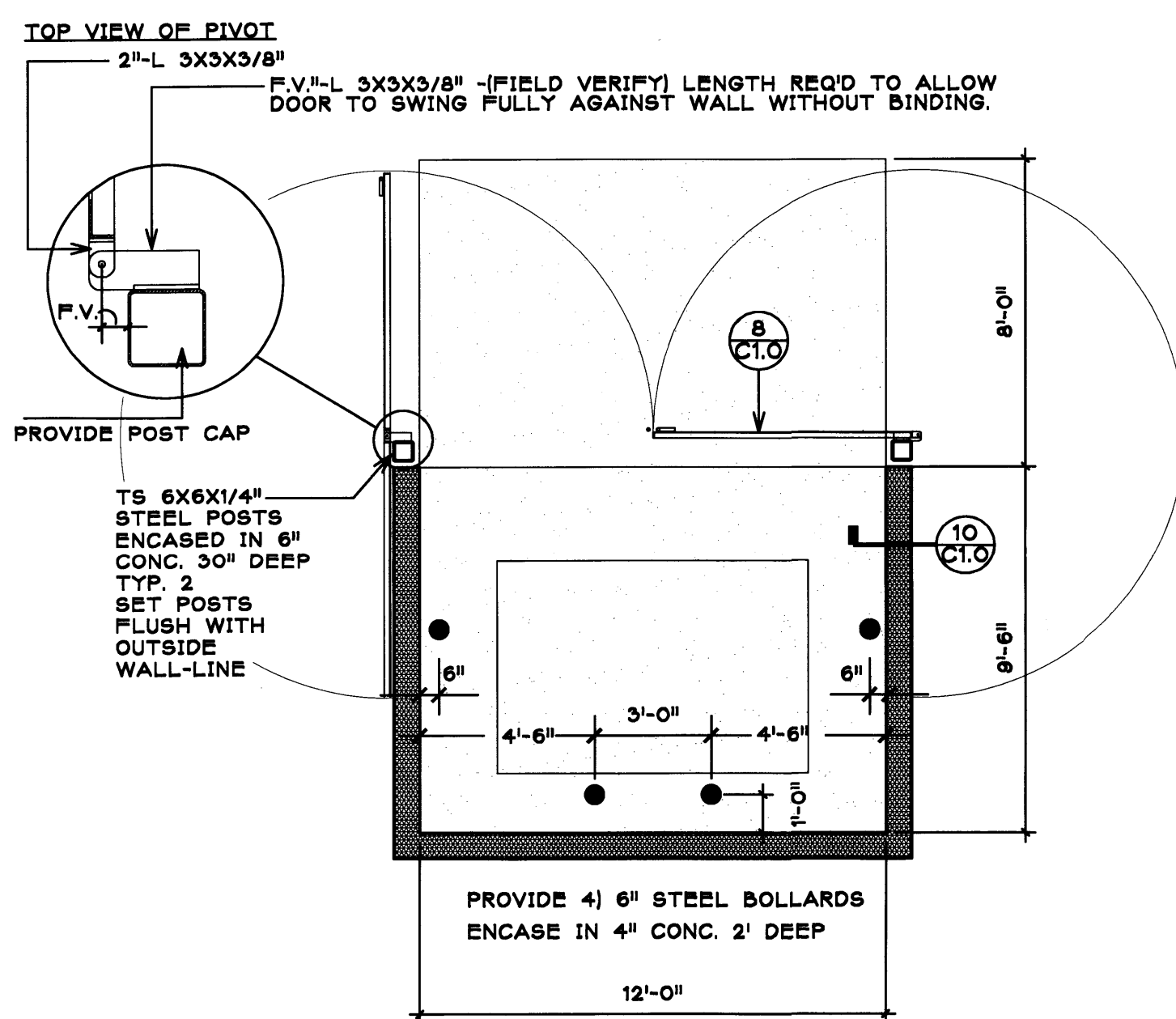
SHEET NO.

GD

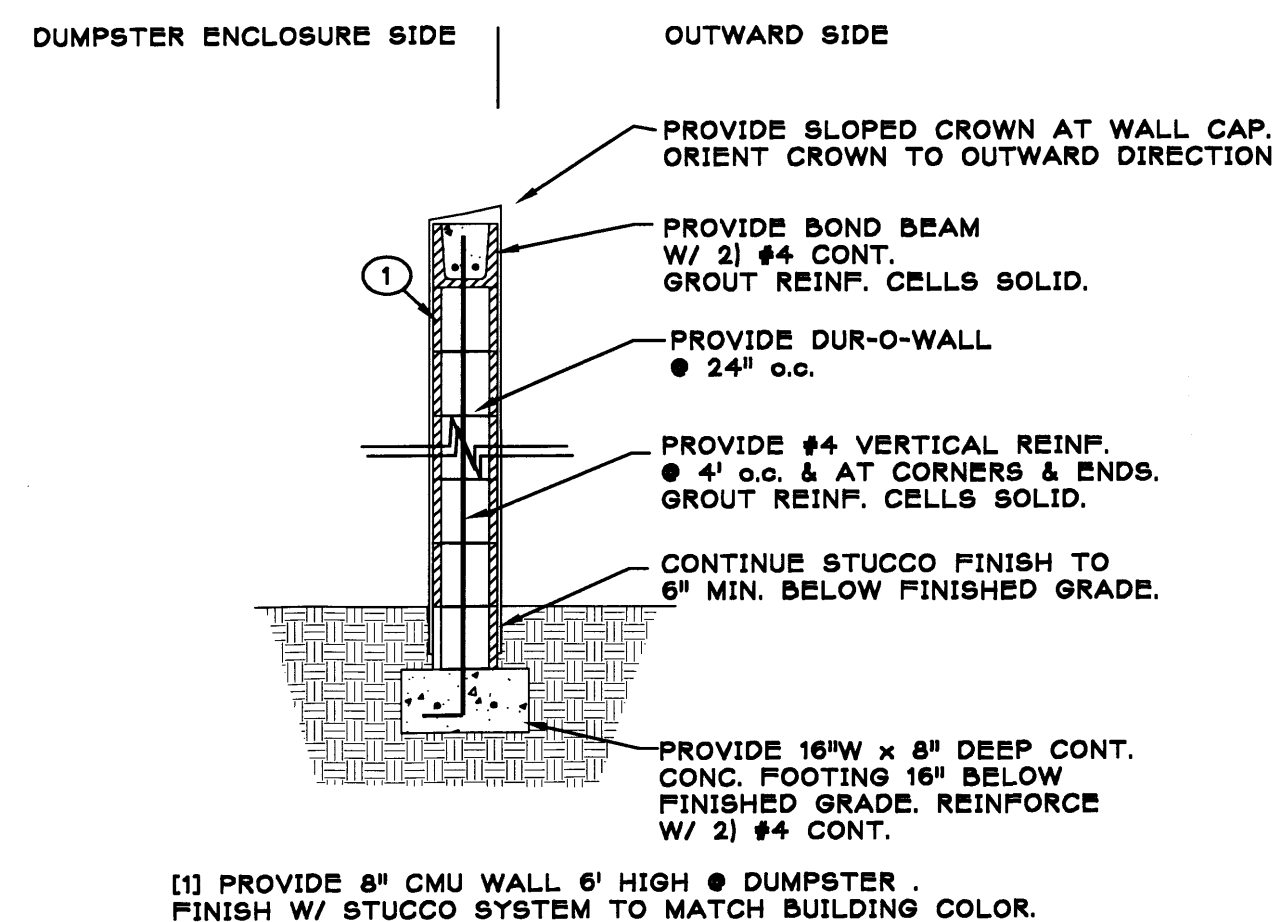


8 GATE ELEVATION
C1.0 SCALE: 1/4"=1'-0"

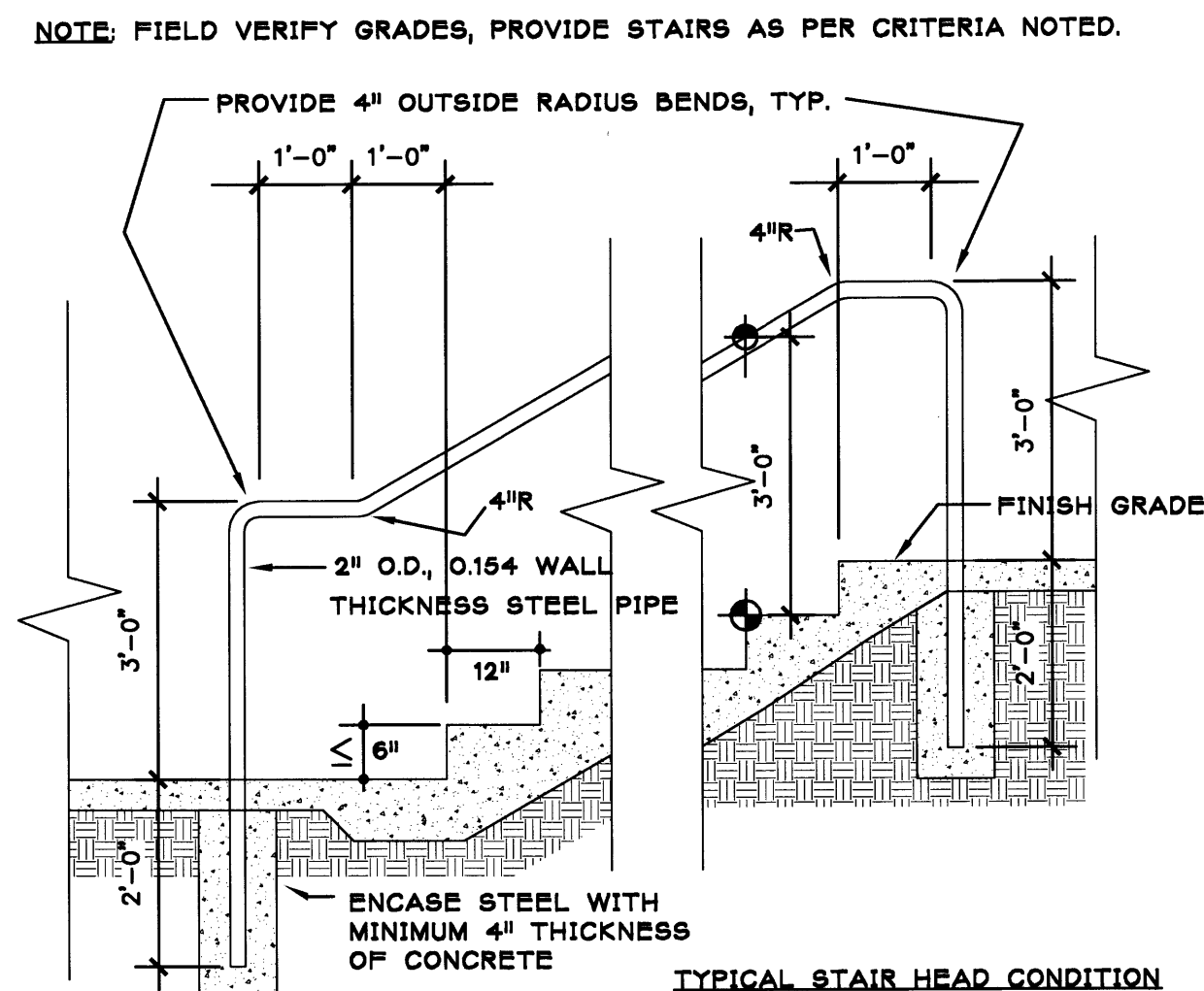
CONCRETE SLAB IN ENCLOSURE: 6" THK. 4000 PSI, 3/4" AGG. W/ 6X6-10/10 WWM. SLOPE TO DRAIN @ 1/8" PER FT. MIN.
CONCRETE APRON SLAB: 6" THK. 12' x 8' 4000 PSI, 3/4" AGG. W/ 6X6-10/10 WWM. SLOPE TO DRAIN @ 1/8" PER FT. MI.
CMU WALL: SEE DUMPSTER WALL DETAIL



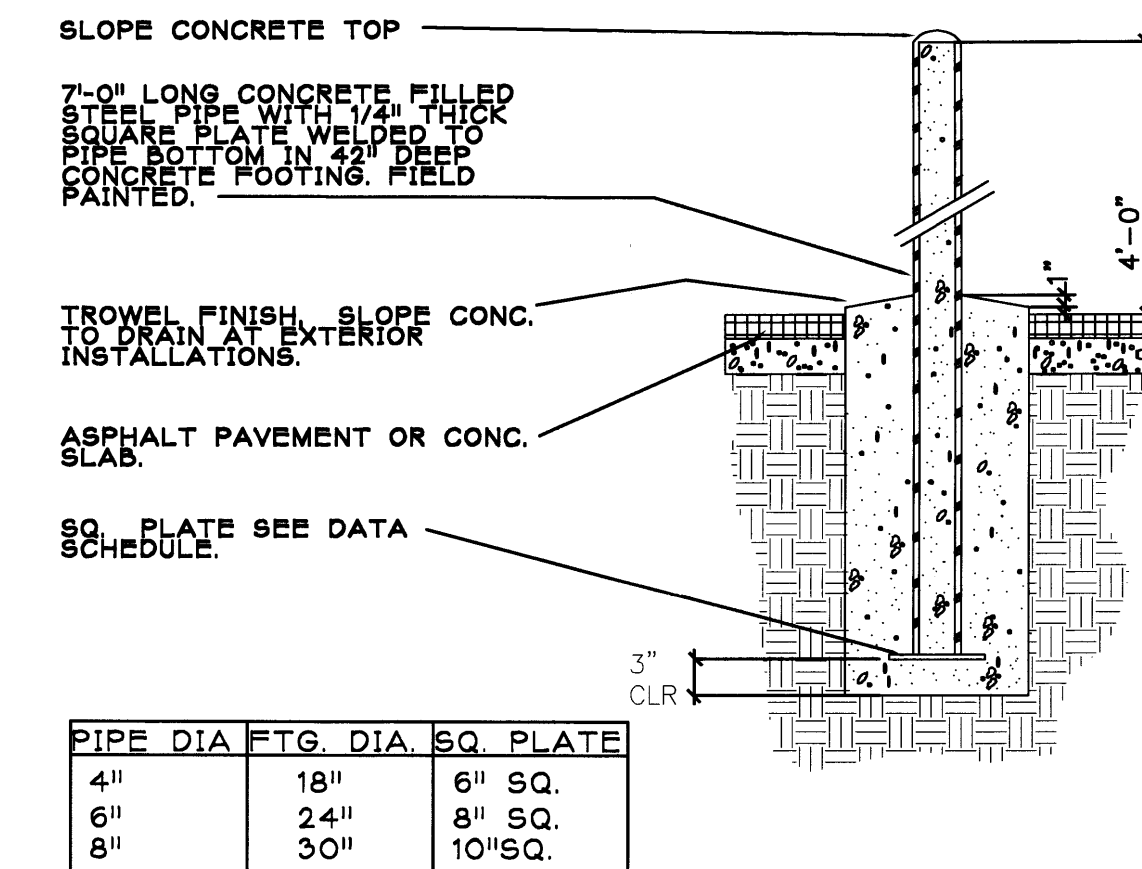
9 DUMPSTER ENCLOSURE PLAN
C1.0 SCALE: 1/4"=1'-0"



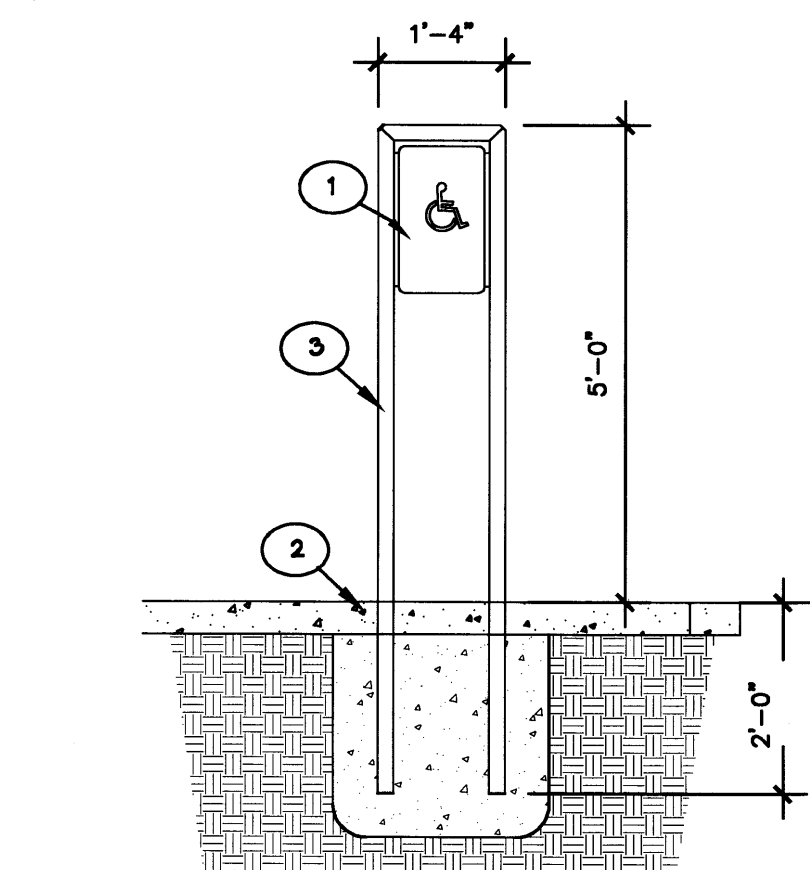
10 DUMPSTER WALL
C1.0 SCALE: 1/2"=1'-0"



5 STAIR & HANDRAIL
C1.0 SCALE: 1/2"=1'-0"



6 BOLLARD
C1.0 SCALE: 3/4"=1'-0"

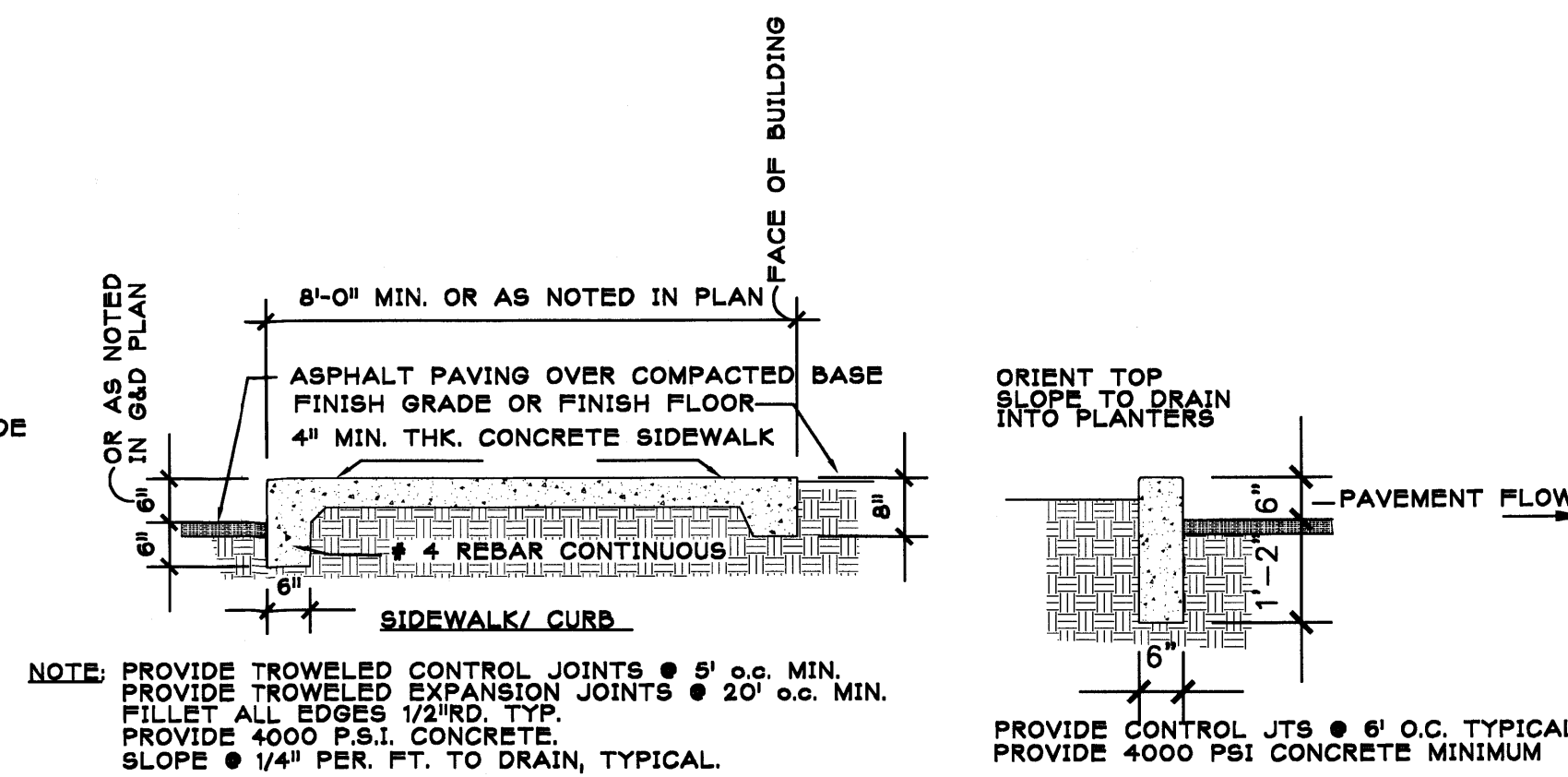


[1] SIGN SHALL READ "VAN ACCESSIBLE". SIGN SIZE 11.75" W X 18" H PROVIDE TRANSLUCENT PLEXIGLASS SIGN.

[2] PROVIDE 4" CONCRETE ENCASEMENT AROUND PIPE.

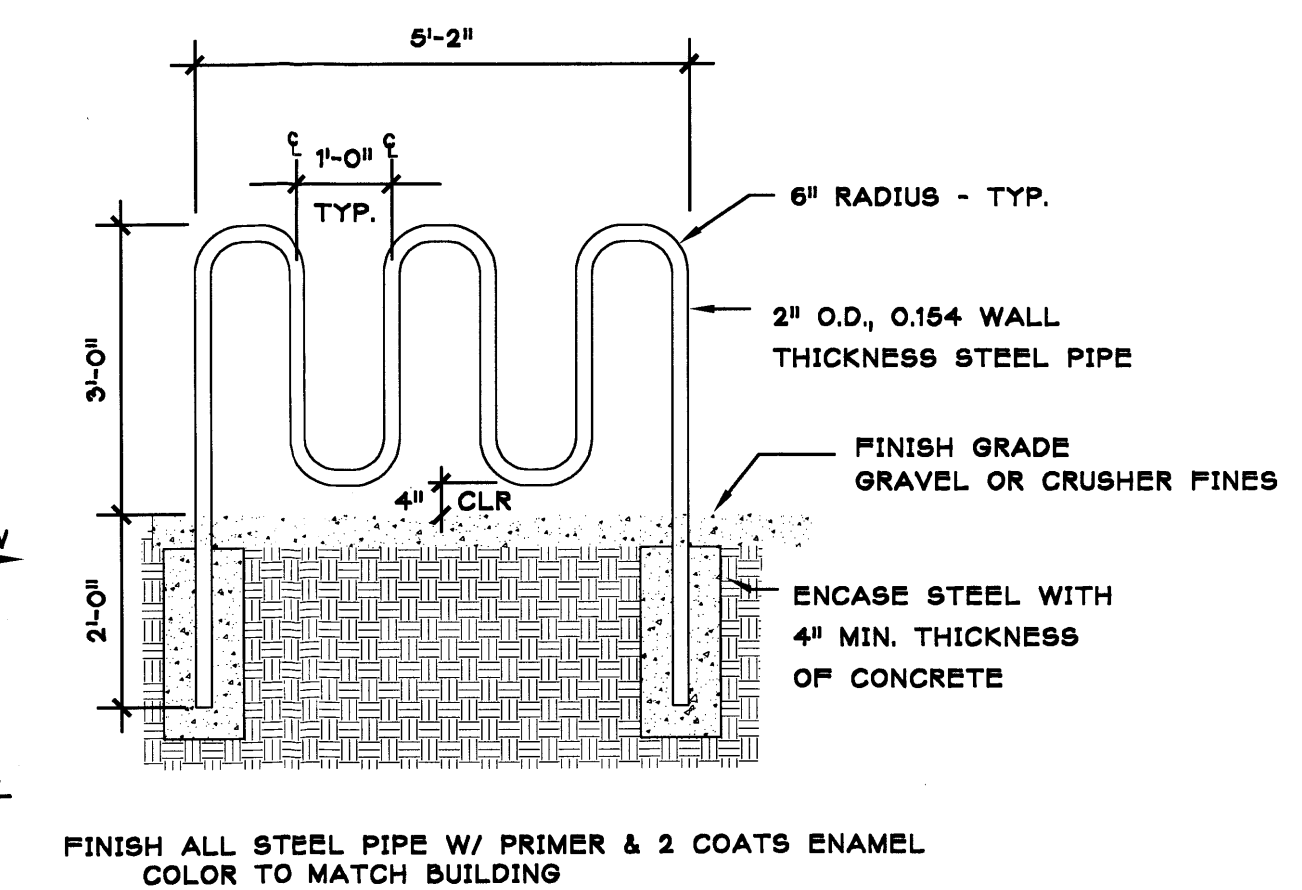
[3] TS 2 1/2" x 1/8" PRIMED & PAINTED STEEL POSTS & CROSS BAR PROVIDE 3/4" x 18" & GA. CONTINUOUS FLANGE EA. SIDE @ SIGN FINISH ALL STEEL PIPE W/ PRIMER & 2 COATS ENAMEL COLOR BY ARCHITECT.

7 ACCESS PARK'G SIGN
C1.0 SCALE: 1/2"=1'-0"

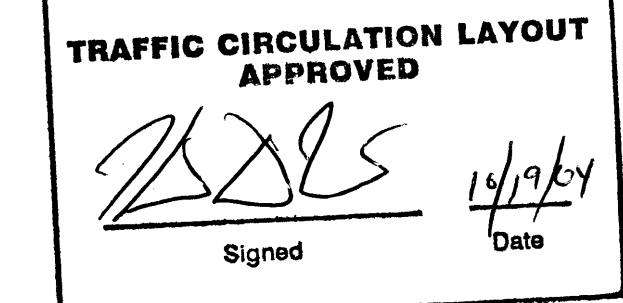


4 SIDEWALK
C1.0 SCALE: 1/2"=1'-0"

3 HEADER CURB
C1.0 SCALE: 1/2"=1'-0"

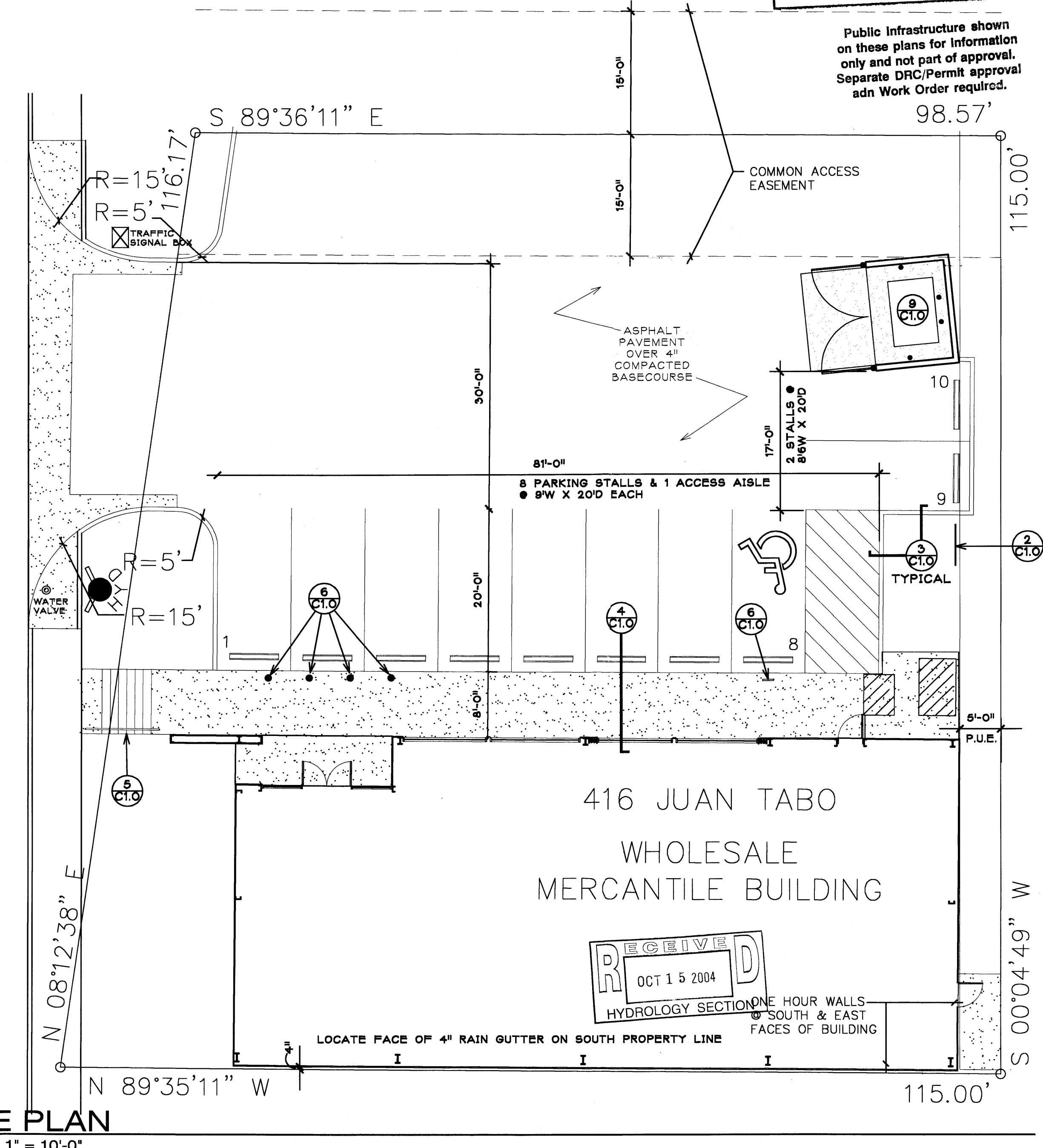


2 BIKE RACK
C1.0 SCALE: 1/2"=1'-0"



Public Infrastructure shown on these plans for information only and not part of approval. Separate DRC/Permit approval and Work Order required.

JUAN TABO BOULEVARD N.E.
106' R.O.W. & VARIES PER (C23, 151)

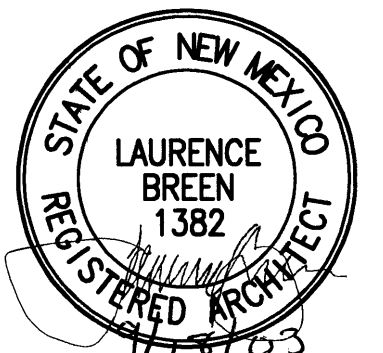


1 SITE PLAN
C1.0 SCALE: 1" = 10'-0"

DORMAN and BREEN
LAURENCE BREEN A.I.A.
SANTA FE, NM 505-982-9196

R + B
RICHARD DORMAN F.A.I.A.
ALBUQUERQUE, NM 505-299-5940

SILVER NUGGET
416 JUAN TABO BLVD N.E.
ALBUQUERQUE, NM



SHEET TITLE:
SITE PLAN
SITE DETAILS

JOB NUMBER:
0236

DATE:
9/18/03

REVISIONS:
BLDG PERMIT SET 9/18/03
TCL APPROVAL 10/15/04

SHEET:
C-1.0
2 OF 19



C1.0 SCALE: 1/4"=1'-0"

CONCRETE SLAB IN ENCLOSURE: 6" THK. 4,000 PSI, 3/4" AGG.
W/ 6X6-10/10 WWM. SLOPE TO DRAIN @ 1/8" PER FT. MIN.

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CMU WALL: SEE DUMPSTER WALL DETAIL



FINISH ALL STEEL PIPE W/ PRIMER & 2 COATS ENAMEL
COLOR BY ARCHITECT.

C1.0 SCALE: 1/2"=1'-0"

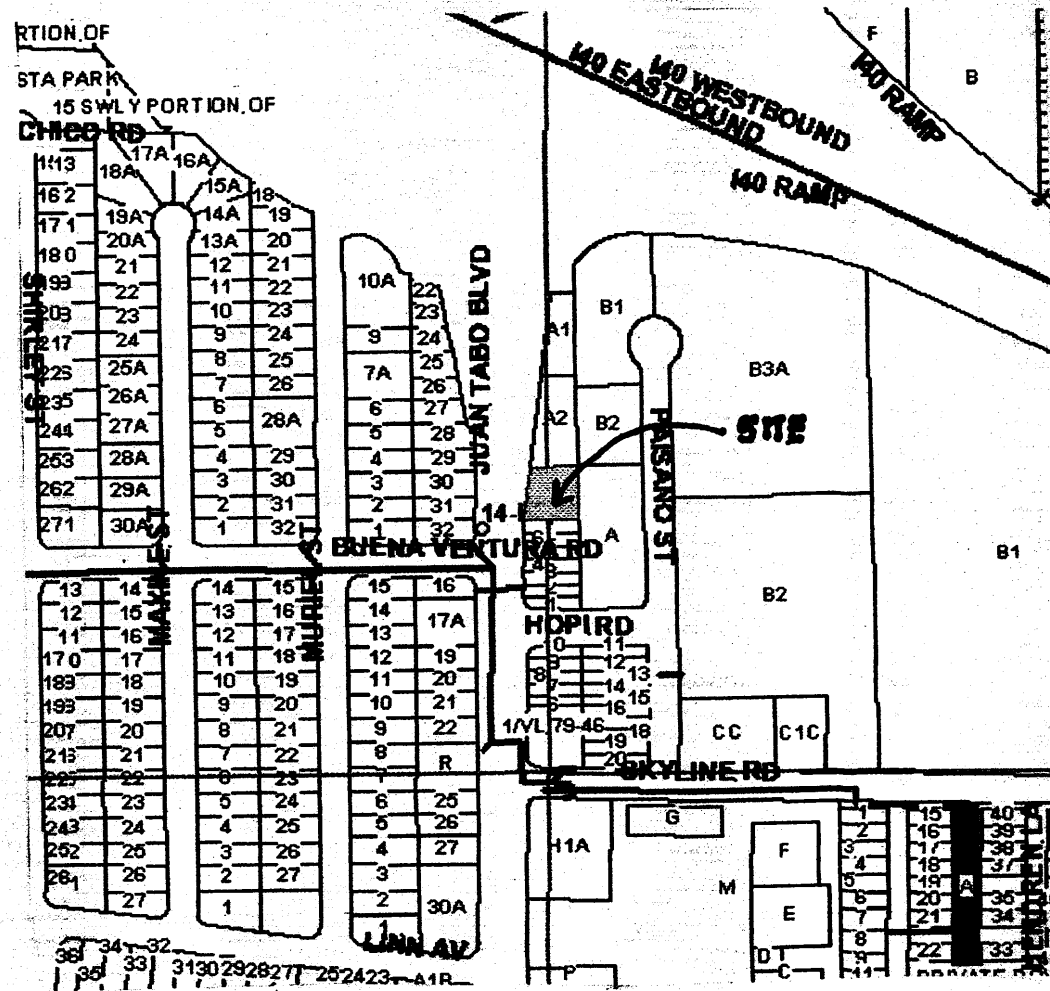


[2] PROVIDE 4" CONCRETE ENCASEMENT AROUND PIPE.

[3] TS 2 1/2" x 2" x 1/8" PRIMED & PAINTED STEEL POSTS & CROSS BAR
PROVIDE 3/4" x 18" 8 GA. CONTINUOUS FLANGE EA. SIDE ● SIGN
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COLOR BY ARCHITECT.

C1.0 SCALE: 1/2"=1'-0"





VICINITY MAP K22

FROM PANEL NO. 03590

GRADING/DRAINAGE PLAN

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AS SHOWN BY THE GRADING/DRAINAGE PLAN, THE PROJECT WILL CONSIST OF A NEW BUILDING (TO REPLACE THE EXISTING ONE) ALONG WITH ASSOCIATED PAVED AND LANDSCAPED AREAS. THE DEVELOPED RUN-OFF WILL BE ROUTED TOWARDS AND OUT THROUGH THE PROPOSED NEW DRIVEPAD. A DECREASE OF 0.01 CFS HAS OCCURRED BECAUSE OF ADDITIONAL LANDSCAPING. THE CALCULATIONS, WHICH APPEAR HEREON, ANALYZE THE EXISTING AND PROPOSED CONDITIONS FOR THE SMALLER BASINS, AS SET FORTH IN THE REVISION OF SECTION 22.2 HYDROLOGY OF THE DEVELOPMENT PROCESS MANUAL, VOLUME II DESIGN CRITERIA DATED 1997. HAS BEEN USED TO QUANTIFY THE PEAK RATE OF DISCHARGE AND VOLUME OF RUN-OFF GENERATED.

PROJECT AREA = 0.2819 ac.
SILVER NUGGET JEWELRY
ZONE 3
PRECIPITATION: 360 = 2.60 in.
1440 = 3.1 in.
10day = 4.9 in.

EXCESS PRECIPITATION: PEAK DISCHARGE:

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TREATMENT D	2.36 in.	5.02 cfs/ac.

EXISTING CONDITIONS:	PROPOSED CONDITIONS:
AREA	AREA
TREATMENT A	0 ac.
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EXISTING EXCESS PRECIPITATION:

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$$\text{DECREASE } 1.37 \text{ CFS} - 1.36 \text{ CFS} = 0.01 \text{ CFS}$$

DRAINAGE CERTIFICATION

I WALLACE L. BINGHAM NMPE 7281, HEREBY CERTIFY THAT THIS PROJECT HAS BEEN GRADED AND WILL DRAIN IN SUBSTANTIAL COMPLIANCE WITH AND IN ACCORDANCE WITH THE DESIGN INTENT OF THE APPROVED PLAN DATED 07/02/2003. THE RECORD INFORMATION EDITED ONTO THE ORIGINAL DESIGN DOCUMENT HAS BEEN OBTAINED BY ME OR UNDER MY DIRECT SUPERVISION AND IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS CERTIFICATION IS SUBMITTED IN SUPPORT OF A REQUEST FOR RELEASE OF CERTIFICATE OCCUPANCY.

AS-BUILT DESIGNATION
36.15
36.08
OR
36.50

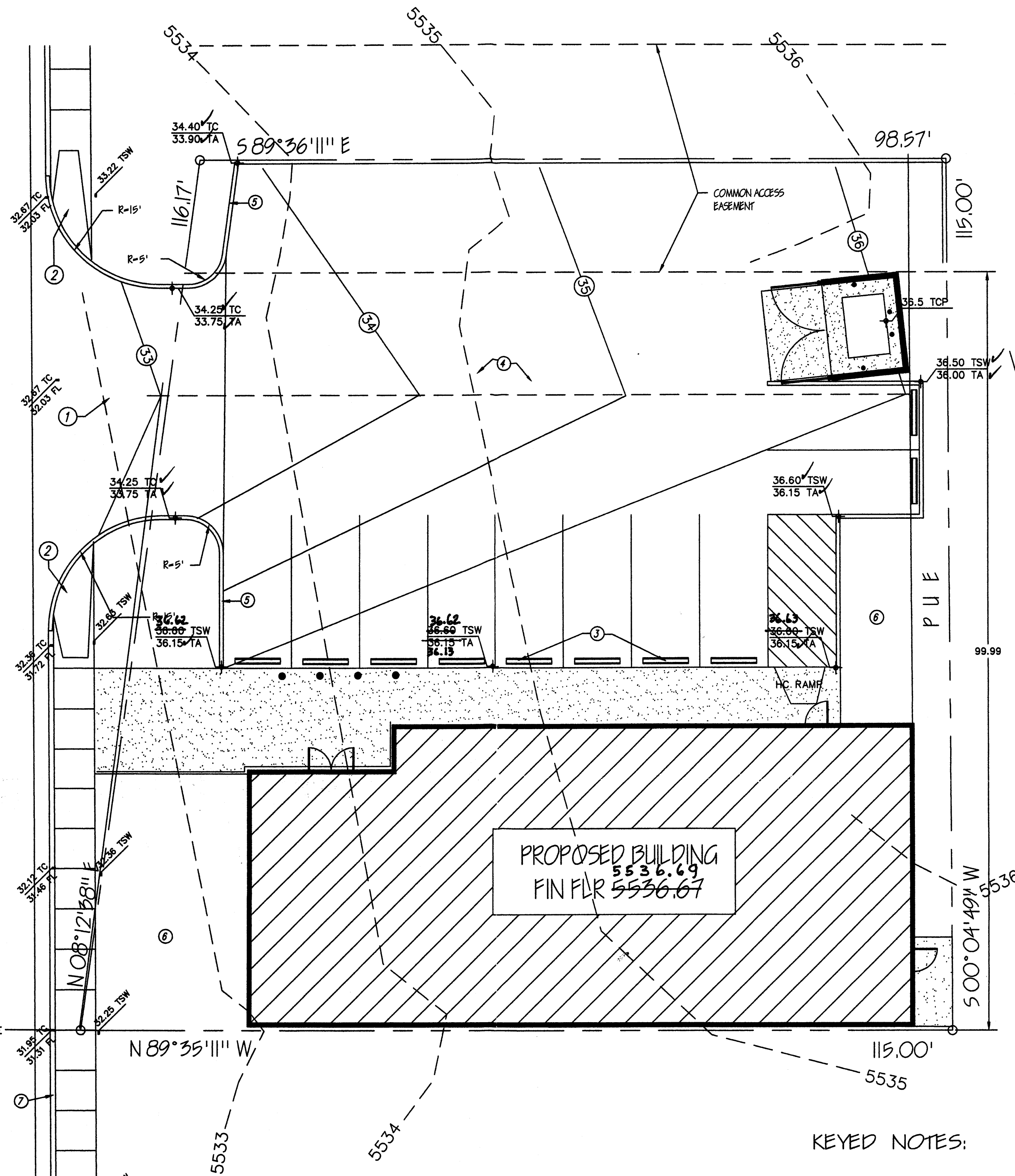


T.B.M. PROJECTION OF S.W. PROPERTY LINE
M.S.L. ELEVATION: 5531.95 TOP OF CURB

NOTICE TO CONTRACTOR

- An excavation/construction permit will be required before beginning any work within the City right-of-way. Approved copy of this plan must be submitted at the time of application for permit.
- All work detailed in this plan to be performed, except as otherwise stated or provided hereon, shall be constructed in accordance with City of Albuquerque Standard Specification for Public Works Construction.
- Two working days prior to any excavation, contractor must contact line locating Services for locating existing utilities, (260-1990).
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JUAN TABO BOULEVARD N.E.
106' R.O.W. & VARIES PER (C23,151)

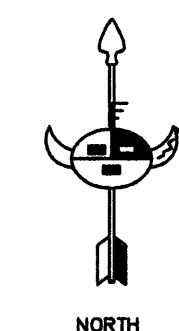


SYMBOL LEGEND

EXISTING CONTOUR
DESIGN CONTOUR
PROPOSED SPOT ELEVATION
PROPERTY LINE
EASEMENT LINE
FLOW DIRECTION
EXISTING SPOT ELEVATION
DOWN SPOUT (NO TO SCALE)

ABBREVIATION LEGEND

TOP OF CONC PAD - TCP
TOP OF CURB - TC
TOP OF ASPHALT - TA
TOP OF CURB - TC
TOP OF ASPHALT - TA
FLOWLINE - FL



0 5' 10' 20'

GRADING & DRAINAGE PLAN

KEYED NOTES:

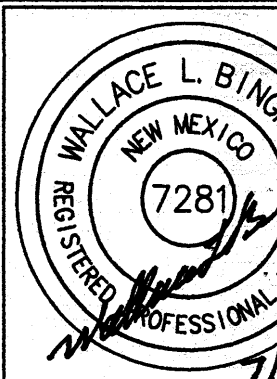
- NEW DRIVE PAD PER COA STD
- HC RAMP
- PARKING QUARDS
- NEW ASPHALT
- 6" HIGH CONCRETE HEADER CURB
- LANDSCAPING
- EXISTING CURB & GUTTER

LEGAL DESCRIPTION

LOT 10-A, BLOCK 2, LA CUESTA SUBDIVISION

BENCHMARK

" A.C.S. STATION 9-K21, M.S.L.D.
ELEVATION: 5530.098
T.B.M. TOP OF CURB PROJECTION OF
SOUTHWEST PROPERTY CORNER
M.S.L.D. ELEVATION: 5531.95



JOB NO: XXXXXXXX
JUNE 2003
REVISIONS

GRADING & DRAINAGE PLAN

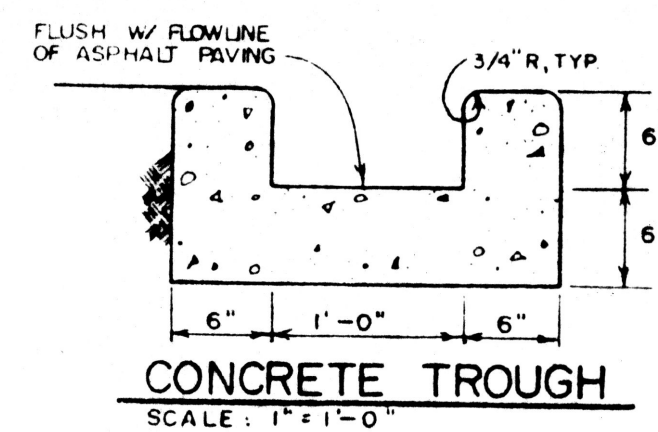
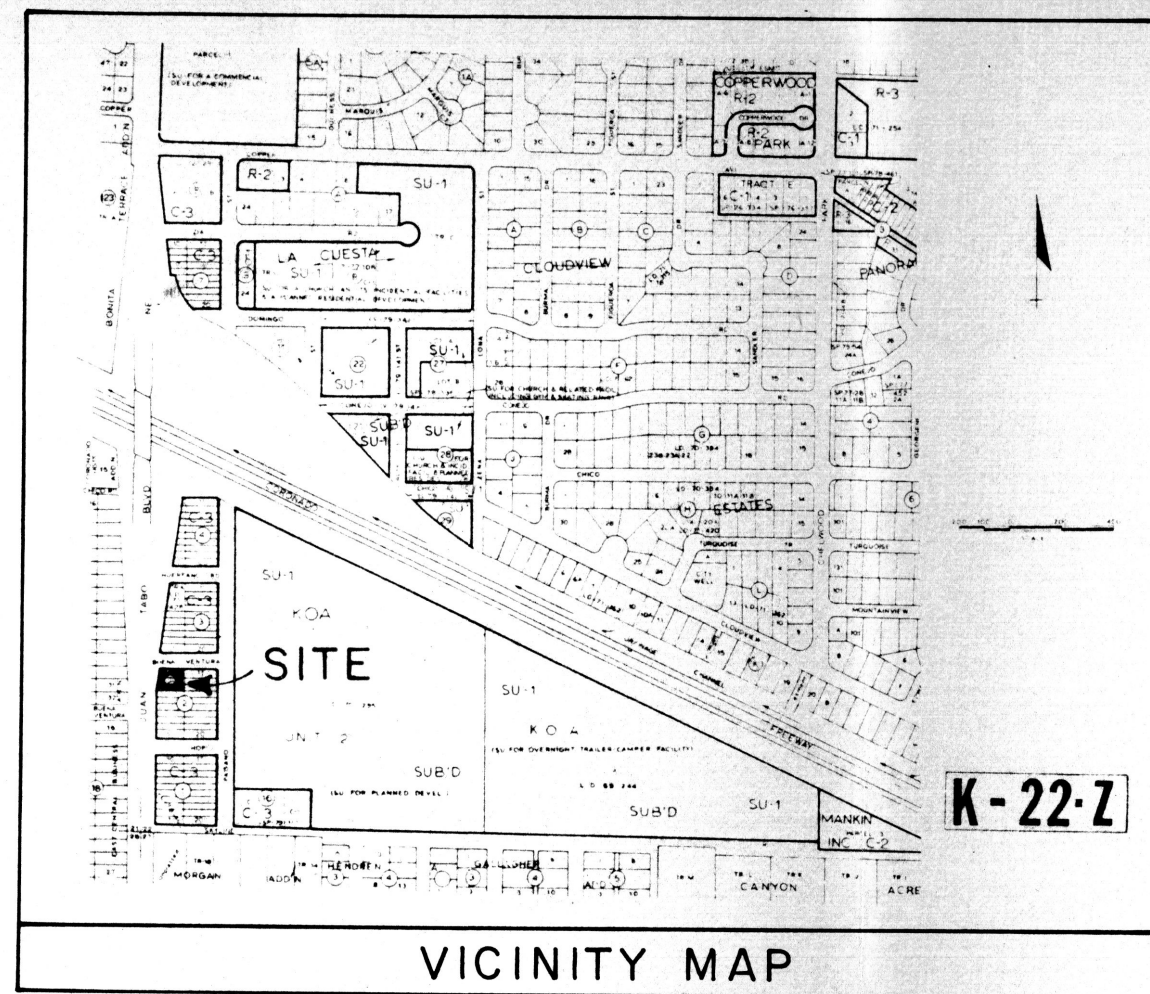
Sheet Title

SILVER NUGGET
416 JUAN TABO BLVD. N.E.
ALBUQUERQUE, NEW MEXICO 87110

Project Name

SHEET NO.

GD



CONSTRUCTION NOTES:

- 1.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE AT 765-1234 FOR LOCATION OF EXISTING UTILITIES.
- 2.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATION OF ALL POTENTIAL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM OF DELAY.
- 3.) ALL WORK ON THIS PROJECT SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, RULES AND REGULATIONS CONCERNING CONSTRUCTION SAFETY AND HEALTH.
- 4.) ALL CONSTRUCTION WITHIN CITY RIGHT-OF-WAY SHALL BE PERFORMED IN ACCORDANCE WITH APPLICABLE CITY OF ALBUQUERQUE STANDARDS AND PROCEDURES.

BENCH MARK REFERENCE: ACS STATION "9-K21", M.S.L.D. ELEVATION = 5530.096; PROJECT BENCH MARK AS SHOWN ON THE PLAT HEREON.

EROSION CONTROL MEASURES:

THE CONTRACTOR SHALL BE HELD RESPONSIBLE FOR MANAGEMENT FOR STORM RUN-OFF DURING CONSTRUCTION; HE SHALL INSURE THAT THE FOLLOWING MEASURES ARE TAKEN:

- 1.) ADJACENT PROPERTY SHALL BE PROTECTED AT ALL TIMES BY CONSTRUCTION OF BERMS, DIKES, SWALES, PONDS, AND OTHER TEMPORARY GRADING AS REQUIRED TO PREVENT STORM RUNOFF FROM LEAVING THE SITE AND ENTERING ADJACENT PROPERTIES.
- 2.) ADJACENT PUBLIC RIGHT-OF-WAYS SHALL BE PROTECTED AT ALL TIMES FROM STORM WATER RUNOFF FROM THE SITE. NO SEDIMENT BEARING WATER SHALL BE PERMITTED TO ENTER PUBLIC STREET.
- 3.) THE CONTRACTOR SHALL IMMEDIATELY AND THOROUGHLY REMOVE ANY AND ALL SEDIMENT WITHIN PUBLIC STREETS THAT HAS BEEN ERODED FROM THE SITE AND DEPOSITED THERE.

NOTICE TO CONTRACTOR:

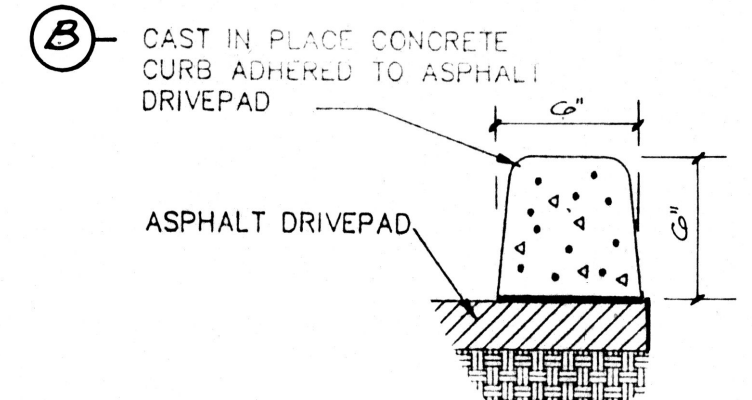
- 1.) AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY. AN APPROVED COPY OF THESE PLANS MUST BE SUBMITTED AT THE TIME OF APPLICATION FOR THIS PERMIT.
- 2.) ALL WORK DETAILED ON THESE PLANS TO BE PERFORMED, EXCEPT AS OTHERWISE STATED OR PROVIDED HEREON, SHALL BE CONSTRUCTED IN ACCORDANCE WITH "CONTRACT DOCUMENTS FOR CITY WIDE UTILITIES AND CASH PA" FIG NO. 31".
- 3.) TWO (2) WORKING DAYS PRIOR TO ANY EXCAVATION, CONTRACTOR MUST CONTACT LINE LOCATING SERVICE (765-1234), FOR LOCATION OF EXISTING OF SURFACE AND SUBSURFACE UTILITIES.
- 4.) PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL EXCAVATE AND VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL OBSTRUCTIONS; SHOULD A CONFLICT EXIST, THE CONTRACTOR SHALL NOTIFY THE ENGINEER SO THAT THE CONFLICT CAN BE RESOLVED WITH A MINIMUM AMOUNT OF DELAY FOR THE PROJECT.

GENERAL NOTES:

- 1.) NO PERIMETER BOUNDARY CORNERS HAVE BEEN FIELD ESTABLISHED PER THIS SURVEY OF THE SUBJECT PROPERTY.
- 2.) NO SEARCH HAS BEEN MADE FOR EASEMENTS OF RECORD WITHIN THE SUBJECT SITE OTHER THAN THOSE SHOWN ON THE PLAT OF RECORD.
- 3.) REFER TO "ARCHITECTURAL SITE PLAN" FOR FIELD LAYOUT OF THE PROPOSED IMPROVEMENTS.
- 4.) TOPOGRAPHY SURVEY OBTAINED BY "TRANSIT-STADIA" METHOD.

TECHNICAL SPECIFICATIONS FOR "PERMA-CURBS" :

CURBS SHALL BE MACHINE EXTRUDED PERMA-CURB OF THE SHAPE AND DIMENSIONS TO SUITE CLIENT REQUIREMENTS. THE CONCRETE USED FOR PERMA-CURB SHALL BE A SPECIAL NO SLUMP, DESIGN MIX ATTAINING APPROXIMATELY 3,500 LB. STRENGTH IN 28 DAYS. PERMA-CURBS SHALL BE A DENSE UNIFORM TEXTURE. COLD JOINTS SHALL BE INSTALLED EVERY 15 LINEAL FEET. PERMA-CURBS SHALL BE IMMEDIATELY BE SPRAYED WITH SEALER TO ATTAIN THE MAXIMUM MOISTURE RETENTION. PERMA-CURBS SHALL BE BONDED TO ASPHALT AND/OR CONCRETE SURFACES WITH EPOXY RESIN OR CSS 1 BITUMENS IN ACCORDANCE WITH MANUFACTURE'S RECOMMENDATIONS, TO ASSURE A STRONG MOISTURE PROOF BOND. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH GOOD CONSTRUCTION PRACTICE.



LEGAL DESCRIPTION:

A certain tract of land being and comprising the Easterly portion of Lots numbered 8, 9, and 10, Block numbered 2, LA CUESTA, a Subdivision in Albuquerque, New Mexico as the same is shown and designated on said plat thereof, filed in the office of the County Clerk of Bernalillo County, New Mexico on June 10, 1946 Volume C1, folio 54 and being more particularly described as follows: BEGINNING at the Northeast corner of said tract, a point on the South right-of-way of Buena Ventura Road N.E., being the Northeast corner of said Lot numbered 10, thence, from said point of beginning, leaving said right-of-way S. 00° 14' 00" E., 89.00 feet to the Southeast corner; thence, S. 89° 46' 00" W., 115.00 feet to the Southwest corner and point on the East right-of-way of Juan Tabo Blvd. N.E.; thence, N. 07° 53' 49" E., along said right-of-way 85.86 feet to the Northwest corner; thence, leaving said right-of-way N. 89° 46' 00" E., 102.06 feet to the point of beginning and containing 0.2126 acres, more or less. Legal description prepared by Franklin E. Wilson, N.M.P.S. 6446.

LEGEND:

- TC=32.30 = TOP OF CURB ELEVATION
 LE=31.70 = GUTTER FLOW LINE ELEVATION
 32.30 = EXISTING SPOT ELEVATION
 35.20 = PROPOSED SPOT ELEVATION
 --- = CHAIN LINK FENCE LINE
 --- = CONCRETE WALK/PLAS

- (A) = REMOVE EXISTING ASPHALT
 (B) = INSTALL PERMA-CURBS
 (C) = EXISTING LANDSCAPED AREA
 --- = EXISTING DIRT CONTOUR
 ---32.0--- = EXISTING FINISH CONTOUR

DRAINAGE COMMENTS:

THE FOLLOWING ITEMS CONCERNING THE SUBJECT SITE ARE CONTAINED ON THE GRADING AND DRAINAGE PLAN AS SHOWN HEREON:

- 1.) SITE GRADING AND DRAINAGE PLAN
- 2.) VICINITY MAP
- 3.) LEGAL DESCRIPTION OF SUBJECT SITE
- 4.) LIMITS AND CHARACTER OF THE EXISTING AND PROPOSED IMPROVEMENTS
- 5.) HYDRAULIC DRAINAGE CALCULATIONS

AS SHOWN ON THE VICINITY MAP HEREON THE SUBJECT SITE IS LOCATED ON THE EAST SIDE OF JUAN TABO BOULEVARD N.E. BETWEEN EAST CENTRAL AVENUE AND INTERSTATE HIGHWAY 40, (CORONADO FREEWAY), (CITY ZONE ATLAS MAP "K-22-2").

THE SUBJECT SITE, (1.) DOES NOT LIE WITHIN A FLOOD PLAIN, (2.) DOES NOT LIE ADJACENT TO A NATURAL OR ARTIFICIAL WATER COURSE, (3.) HAS NO DRAINAGE EASEMENTS ON THE PROPERTY, (4.) DOES NOT ACCEPT OR CONTRIBUTE OFF-SITE FLOWS.

BASED ON A SITE INVESTIGATION, IT HAS BEEN DETERMINED THAT THE FREE DISCHARGE OF SURFACE FLOWS OF THE EXISTING AND PROPOSED QUANTITIES HAVE NO ADVERSE AFFECT ON DOWNSTREAM PROPERTIES; THE PROPOSED DEVELOPMENT WILL DECREASE THE IMPERVIOUS AREA OF THE SUBJECT SITE.

DRAINAGE CALCULATIONS:

I. REFERENCES:

- A. CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL (DPM), VOL. 2, DESIGN CRITERIA, CHAPTER 22, DRAINAGE, FLOOD CONTROL AND EROSION CONTROL.
- B. SOIL SURVEY OF BERNALILLO COUNTY AND PARTS OF SANDOVAL AND VALENCIA COUNTIES, NEW MEXICO, UNITED STATES DEPARTMENT OF AGRICULTURE, SOIL CONSERVATION SERVICE, (SCS SHEET NO. 32).

II. GENERAL INFORMATION:

- A. SOIL TYPE IS "TgB", TIJERAS GRAVELLY FINE SANDY LOAM, 1 TO 5 PERCENT SLOPES, HYDROLOGIC SOIL GROUP "B"
- B. SITE AREA: 9,259.05 SQ. FT., (0.213 ACRE).
- C. TYPE OF SURFACE, (EXISTING DEVELOPED):
 HARD SURFACED (ASPHALT/CONC.) = 0.14 AC. = 66% X (C=0.95) = 0.63
 BUILDING ROOF AREA = 0.06 AC. = 29% X (C=0.90) = 0.26
 LANDSCAPED AREA = 0.01 AC. = 05% X (C=0.25) = 0.01
 UNDEVELOPED AREA = 0.00 AC. = 00% X (C=0.40) = 0.00
 'WEIGHTED' "C" = 0.90

C-1. TYPE OF SURFACE (PROPOSED DEVELOPED):

- HARD SURFACED (ASPHALT/CONC.) = 0.10 AC. = 47% X (C=0.95) = 0.45
 BUILDING ROOF AREA = 0.08 AC. = 38% X (C=0.90) = 0.34
 LANDSCAPED AREA = 0.03 AC. = 15% X (C=0.25) = 0.04
 UNDEVELOPED AREA = 0.00 AC. = 00% X (C=0.40) = 0.00
 'WEIGHTED' "C" = 0.83

- D. RAINFALL, 100-YR., 6-HR., "R₆"; SEE REF. A, PLATE 22.2 D-1
R₆ = 2.5 INCHES.

- E. TIME OF CONCENTRATION, T_c = TEN (10) MINUTES FOR A SITE THIS SIZE.

- F. RAINFALL INTENSITY, "I", (SEE REF. A., PLATE 22.2 D-2)
 $I = R_6 \times 6.84 \times T_c^{-0.51} = 2.5 \times 6.84 \times (10)^{-0.51} = 5.28 \text{ IN./HR.}$

III. PEAK DISCHARGE: (Q = CIA)

- DEVELOPED/EXISTING: Q₁₀₀ = 0.90 X 5.28 X 0.213 = 1.01 cfs
 Q₁₀ = 0.657 X 1.01 = 0.66 cfs
 DEVELOPED/PROPOSED: Q₁₀₀ = 0.83 X 5.28 X 0.213 = 0.93 cfs
 Q₁₀ = 0.657 X 0.93 = 0.61 cfs

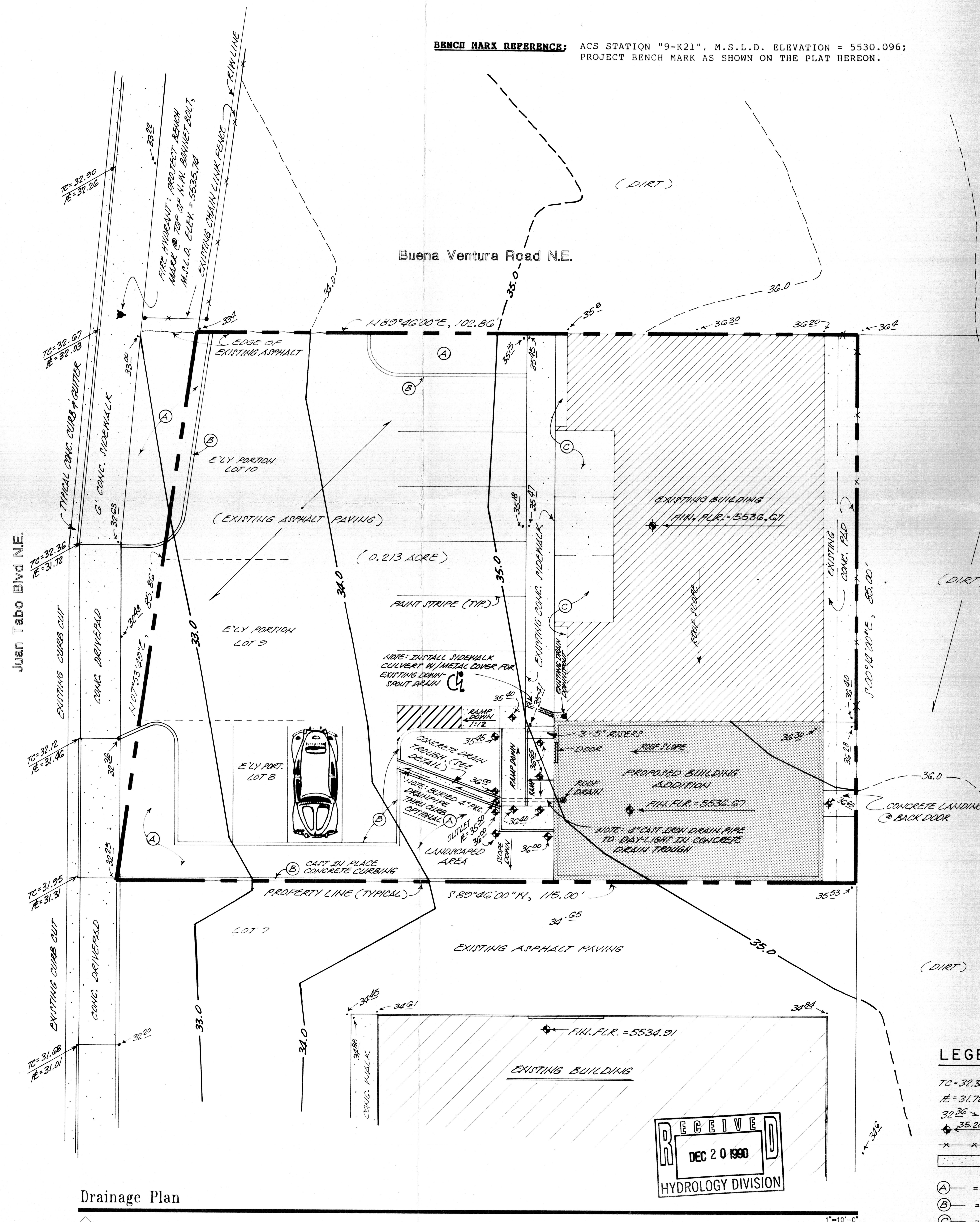
IV. PEAK VOLUME:

A. EXISTING CONDITIONS:

- V₁₀₀ = 0.90 X (2.5/12) X 9,259.05 = 1,736.1 CU. FT.
 V₁₀ = 0.657 X 1,736.1 = 1,140.6 CU. FT.

B. DEVELOPED CONDITIONS:

- V₁₀₀ = 0.83 X (2.5/12) X 9,259.05 = 1,601.0 CU. FT.
 V₁₀ = 0.657 X 1,601.0 = 1,051.9 CU. FT.



Drainage Plan

14 DEC 1990



KNIGHT SEAVEY DESIGN, P.C.
AIA, AICP

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(505) 242-9800

Land Use Analysis
Site Planning
Architecture
Interior Space Planning
Development Services

Albuquerque, NM
87191

Silver Nugget
A DEVELOPMENT OF WILLIAMS INVESTMENTS
AT AIRPORT INDUSTRIAL PARK - LOT 2

Drainage Plan

PROJECT NO.

SN-90

SHEET NO.

C2