POINT OF PRESENCE
FIBER HUT

SANDIA SCIENCE AND TECHNOLOGY PARK

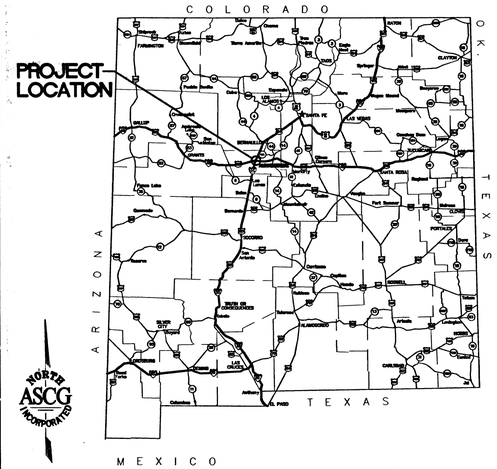
ALBUQUERQUE, NEW MEXICO

APRIL 4, 2003

INDEX OF SHEETS

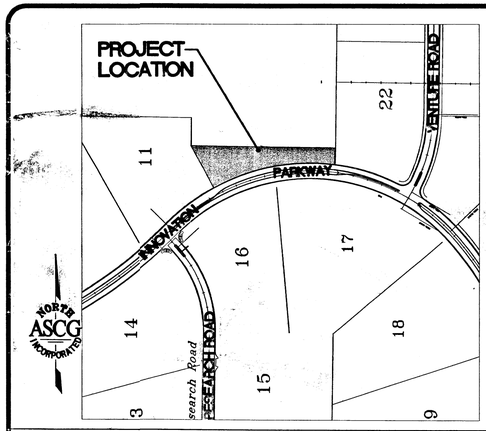
SHEET NO			SHEET TITLE
1	OF	12	T1 COVER SHEET, INDEX OF SHEETS, LOCATION MAP
2	OF	12	L1 SITE PLAN LANDSCAPE
3	OF	12	C1 SITE DEVELOPMENT PLAN FOR BUILDING PERMIT – SITE LAYOUT/UTILITY PLAN
4	OF	12	C2 GRADING AND DRAINAGE PLAN
5	OF	12	S1 FOUNDATION, ROOF PLAN AND DETAILS
6	OF	12	S2 SHADE STRUCTURE PLAN AND DETAIL
7	OF	12	A1 FLOOR PLAN, ROOF PLAN, ELEVATIONS AND SECTIONS
8	OF	12	M1 HVAC FLOOR PLAN
9	OF	12	E1 ELECTRICAL SITE PLAN
10	OF	12	E2 POWER, LIGHTING AND SPECIAL SYSTEMS PLANS
11	OF	12	E3 LEGEND, PANEL SCHEDULE AND RISER DIAGRAM
12	OF	12	E4 LIGHTNING PROTECTION PLAN AND DUCT BANK DETAILS

J:\SSTP\dwg\gen\01.dwg\03-27-03



VICINITY MAP

NOT TO SCALE



LOCATION MAP

NOT TO SCALE

ASCG

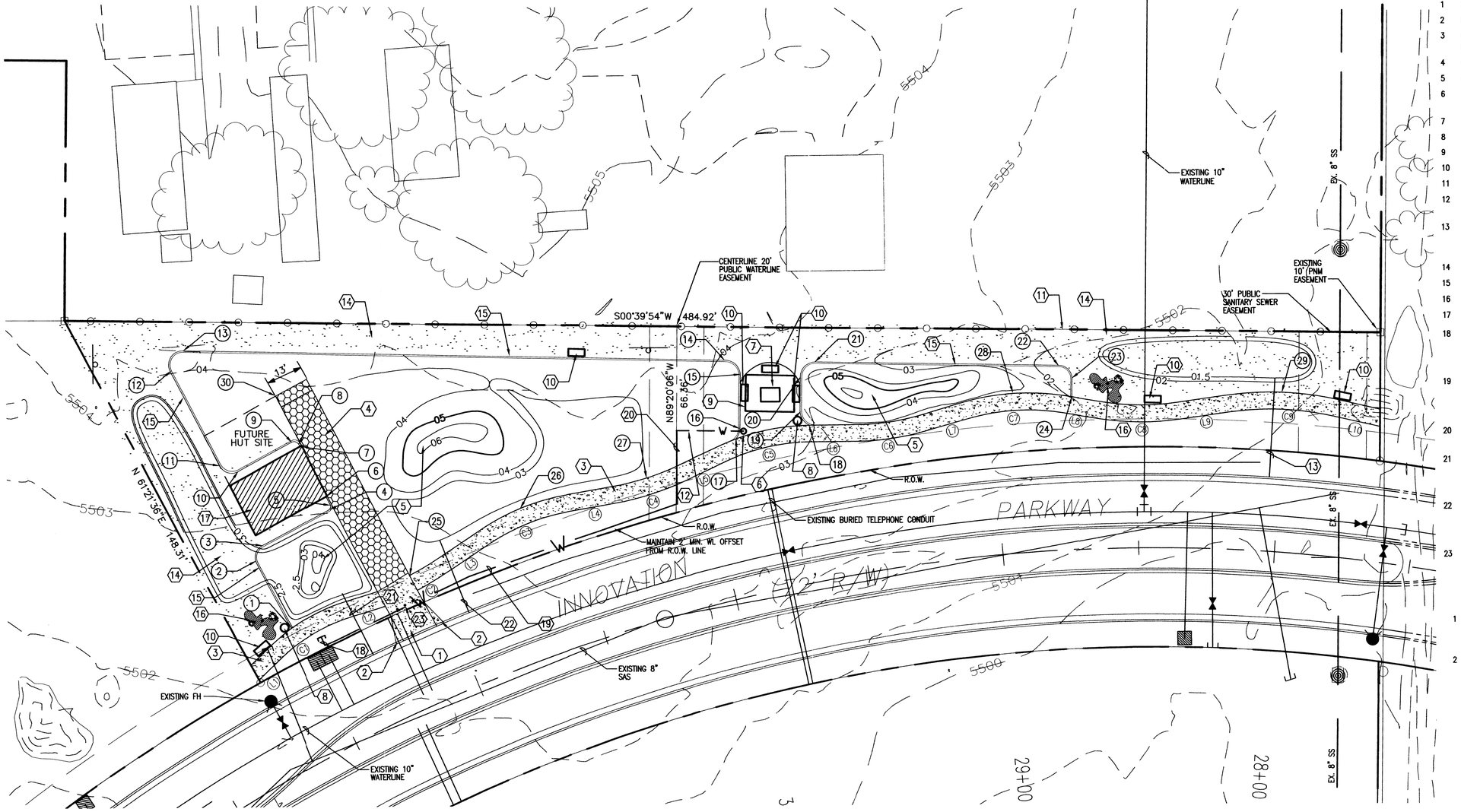
INCORPORATED OF NEW MEXICO

ENGINEERS • ARCHITECTS • SURVEYORS • INSPECTION SERVICES

500 COPPER AVENUE NW, SUITE 500
ALBUQUERQUE, NEW MEXICO 87102-3150
PHONE 505.247.0294 • FAX 505.247.4845

PROJ# 100215

ADMIN APPROVAL



KEYED NOTES

1. CONSTRUCT DRIVEPAD PER COA STD DWG 2425.
2. MATCH TO STREET ELEVATIONS.
3. CONSTRUCT 6' WIDE PCC SIDEWALK SEE LANDSCAPE PLAN FOR DETAILS. MEANDER AS SHOWN.
4. CONSTRUCT TURF BLOCK. SEE LANDSCAPE PLAN FOR DETAILS.
5. CONSTRUCT BERM AS SHOWN.
6. INSTALL FROST FREE, CONCRETE BASE WATER FOUNTAIN, DRAINING TO A DRY WELL.
7. INSTALL ADA ACCESSIBLE PICNIC TABLE.
8. INSTALL TRASH CAN.
9. CONSTRUCT SHADE STRUCTURE.
10. INSTALL BENCH.
11. WROUGHT IRON FENCE BY OTHERS.
12. INSTALL 25 LF 1" DIA. SCH40 PVC PIPE, CONNECT TO NEW WATER FOUNTAIN.
13. INSTALL 35 LF 2" DIA. SCH40 PVC DRAIN PIPE. INV(W) ≅5499.65, INV (E)=5501.33. PLACE DRAIN PIPE THROUGH EXISTING CURB AS PER C.O.A. STD. DWG. 2235. SEE DRAIN PIPE INLET DETAIL THIS SHEET.
14. INSTALL GRAVEL. SEE LANDSCAPE PLANS FOR DETAILS.
15. CONSTRUCT STEEL EDGING. SEE LANDSCAPE PLANS FOR DETAILS.
16. INSTALL BOULDERS. SEE LANDSCAPE PLANS FOR DETAILS.
17. CONSTRUCT FIBER HUT. SEE ARCHITECTURAL PLANS FOR DETAILS.
18. TIE TO EXISTING 1" COPPER METERED WATER SERVICE LINE DOWNSTREAM OF METER BOX (CONTACT CITY NEW SERVICES FOR METER INSTALLATION). INSTALL 1" COPPER TEE WITH DISSIMILAR MATERIALS ADAPTER. PROVIDE 1" COPPER STUBOUT WITH CAP.
19. INSTALL 140 LF 1" DIA. SCH40 PVC PIPE. WL SHALL BE OFFSET 2' BEHIND PROPERTY LINE. INSTALL BACKFLOW PREVENTION DEVICE. INSTALL 1-1"DIA. SCH40 PVC 90° BEND DEFLECT JOINTS AS REQUIRED.
20. INSTALL 26 LF 1" DIA. SCH40 PVC PIPE. INSTALL 1-1"DIA. SCH40 PVC 90° BEND.
21. INSTALL 25 LF 2" DIA. SCH40 PVC DRAIN PIPE. INV(W) ≅5501.73, INV (E) = 5502.33. PLACE DRAIN PIPE THROUGH EXISTING CURB AS PER C.O.A. STD. DWG 2235. SEE DRAIN PIPE INLET DETAIL THIS SHEET.
22. INSTALL 25 LF 2" DIA. SCH40 PVC DRAIN PIPE. INV(W) ≅5501.49, INV (E) = 5502.83. PLACE DRAIN PIPE THROUGH EXISTING CURB AS PER C.O.A. STD. DWG 2235. SEE DRAIN PIPE INLET DETAIL THIS SHEET.
23. INSTALL 3-REMOVABLE BOLLARDS AS PER C.O.A. STD. DWG. 2250 @ 3.25' O.C., COORDINATE LOCATION OF CENTRAL BOLLARD @ N: 1476019.01, E: 1558642.50

GENERAL NOTES

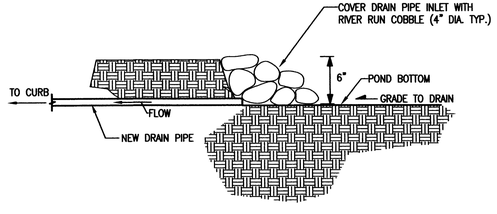
1. SURVEY BASE INFORMATION TAKEN FROM ALTA/ACSM LAND TITLE SURVEY, TRACT G, SANDIA SCIENCE & TECHNOLOGY PARK, BY BOHANNAN HUSTON, DATED NOVEMBER, 2001.
2. WL SHALL HAVE 2' MIN. COVER, AND SHALL BE LOCATED 2' EAST OF ROW LINE.

CONSTRUCTION POINTS

1	N 1476061.08 E 1558634.11	16	N 1475895.21 E 1558705.36
2	N 1476073.90 E 1558658.29	17	N 1475896.80 E 1558701.54
3	N 1476071.37 E 1558664.27	18	N 1475869.75 E 1558706.58
4	N 1476047.01 E 1558676.92	19	N 1475872.99 E 1558711.38
5	N 1476046.37 E 1558678.94	20	N 1475872.83 E 1558723.77
6	N 1476047.86 E 1558681.75	21	N 1475867.22 E 1558729.17
7	N 1476057.48 E 1558699.30	22	N 1475777.44 E 1558727.43
8	N 1476057.82 E 1558699.96	23	N 1475772.54 E 1558722.33
9	N 1476060.52 E 1558700.81	24	N 1475772.65 E 1558716.13
10	N 1476080.31 E 1558690.53	25	N 1476017.23 E 1558653.27
11	N 1476087.03 E 1558692.63	26	N 1475976.30 E 1558677.24
12	N 1476104.90 E 1558726.31	27	N 1475929.81 E 1558687.86
13	N 1476100.39 E 1558733.66	28	N 1475794.28 E 1558717.32
14	N 1475900.08 E 1558729.79	29	N 1475695.30 E 1558717.53
15	N 1475894.93 E 1558724.20		

CURVE TABLE						
CURVE	RADIUS	LENGTH	DELTA	TANGENT	CHORD BEARING	CHORD
C1	63.00	29.68	26°59'30"	15.12	N30°11'13"W	29.41
C2	132.51	13.46	05°49'12"	6.74	S30°19'59"E	13.45
C3	78.00	32.09	23°34'16"	16.27	N21°29'56"W	31.86
C4	122.50	20.95	09°47'54"	10.50	S17°05'51"E	20.92
C5	76.00	31.46	23°43'06"	15.96	N12°14'04"W	31.24
C6	97.50	25.77	15°08'32"	12.96	S07°56'47"E	25.69
C7	82.00	34.70	24°14'35"	17.61	N03°23'46"W	34.44
C8	101.50	29.37	16°34'42"	14.79	S00°26'11"W	29.27
C9	110.00	38.77	20°11'40"	19.59	N02°14'40"E	38.57

LINE TABLE						
LINE	LENGTH	BEARING	START NORTHING	START EASTING	END NORTHING	END EASTING
L1	12.01	S43°40'58"E	1476073.11	1558615.24	1476064.43	1558623.54
L2	13.23	S16°41'28"E	1476039.01	1558638.32	1476026.34	1558642.12
L3	17.39	S33°17'04"E	1476002.85	1558654.74	1475988.32	1558664.29
L4	20.78	S09°42'48"E	1475958.67	1558675.96	1475938.19	1558679.47
L5	20.25	S24°05'37"E	1475918.19	1558685.62	1475899.70	1558693.89
L6	17.18	S00°22'31"E	1475869.18	1558700.51	1475851.99	1558700.62
L7	16.13	S15°31'03"E	1475826.55	1558704.17	1475811.00	1558708.49
L8	14.56	S08°43'32"W	1475776.63	1558710.53	1475762.23	1558708.32
L9	18.26	S07°51'10"E	1475732.97	1558708.09	1475714.88	1558710.59
L10	17.48	S12°20'30"W	1475676.34	1558709.08	1475659.26	1558705.34



2"ø DRAIN PIPE INLET DETAIL

SCALE: NTS

NORTH
ASCG INCORPORATED

0 10' 20' 40' 80'
1" = 20'

NOTICE TO CONTRACTORS

1. AN EXCAVATION/CONSTRUCTION PERMIT WILL BE REQUIRED BEFORE BEGINNING ANY WORK WITHIN CITY RIGHT-OF-WAY.
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 TRAFFIC/STREET USE.
6. MAINTENANCE OF THESE FACILITIES SHALL BE THE RESPONSIBILITY OF THE OWNER OF THE PROPERTY SERVED.
7. WORK ON ARTERIAL STREETS SHALL BE PERFORMED ON A 24-HOUR BASIS.

APPROVAL	NAME	DATE
INSPECTOR		

W. PIERCE RUNNELS III NEW MEXICO 15690 REGISTERED PROFESSIONAL ENGINEER 7-10-03

THIS SITE DEVELOPMENT PLAN FOR BUILDING PERMIT IS CONSISTENT WITH THE JUNE 2001 SANDIA SCIENCE AND TECHNOLOGY PARK MASTER DEVELOPMENT PLAN

DEVELOPMENT REVIEW BOARD CHAIR FOR PLANNING DIRECTOR

7/15/03
DATE

ASCG INCORPORATED
ENGINEERS · ARCHITECTS · SURVEYORS · INSPECTION SERVICES
4501 AMERICAS PARKWAY NE, SUITE 400
ALBUQUERQUE, NEW MEXICO 87109
PHONE 505.247.0294 · FAX 505.242.4845

ENTERPRISE ELECTRICAL SERVICES INC.
9708 BELL AVE. SE
ALBUQUERQUE, NEW MEXICO 87123

SUMMIT CONSTRUCTION
900 HAZELDINE AVE. SE
ALBUQUERQUE, NEW MEXICO 87106

SANDIA SCIENCE AND TECHNOLOGY PARK

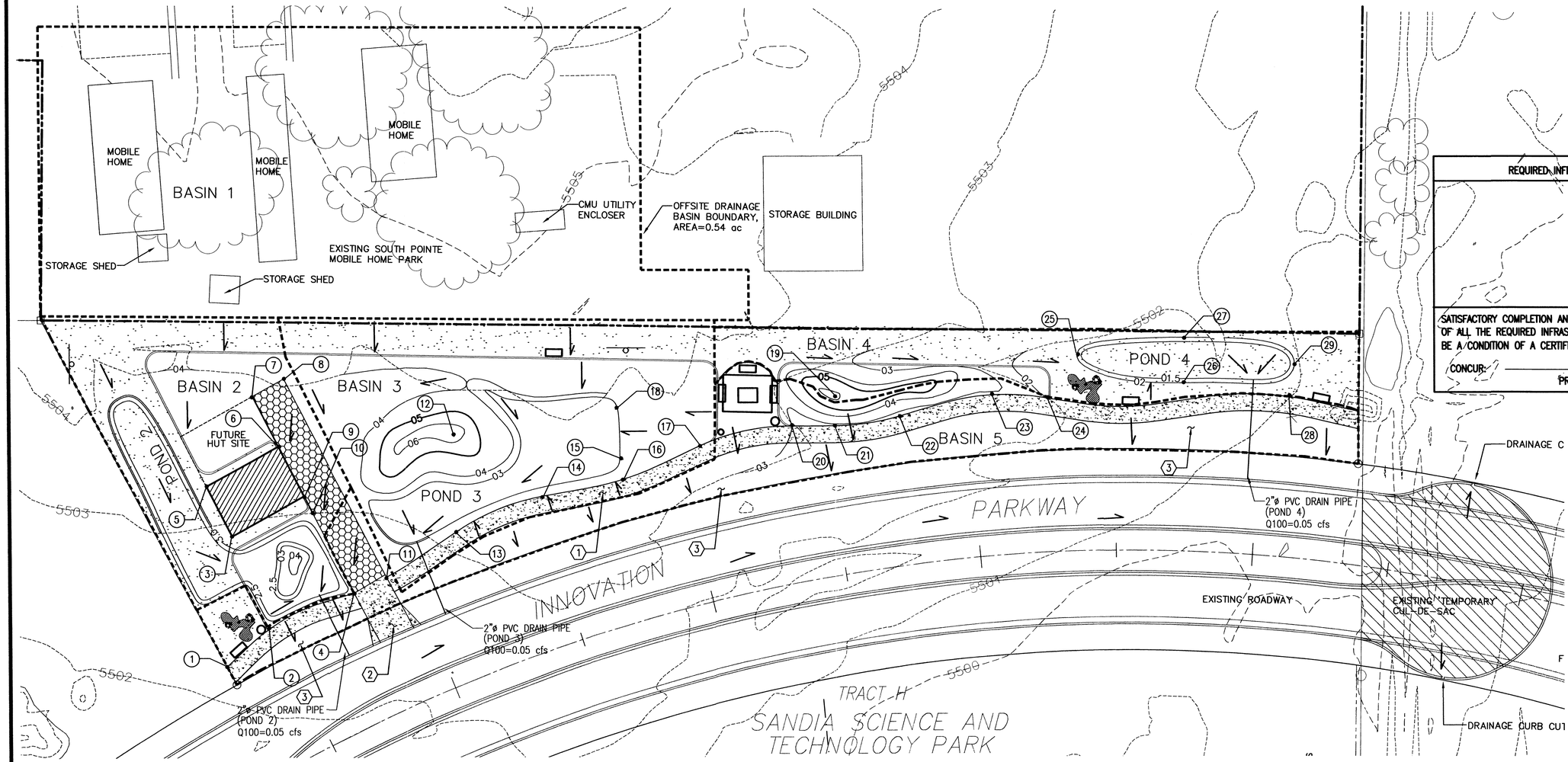
TELECOMMUNICATIONS DISTRIBUTION SYSTEM
SANDIA SCIENCE AND TECHNOLOGY PARK

SITE DEVELOPMENT PLAN FOR BUILDING PERMIT
SITE LAYOUT/UTILITY PLAN

REVISIONS	
NUMBER:	DATE:

JOB NO:
DATE:
DRAWN BY: CAB
CHECKED BY: PR
DRAWING NO: C-1
SHEET OF

J:\SSTP\dwg\CIVIL\SITE_PLAN.dwg\CAB\03-25-03

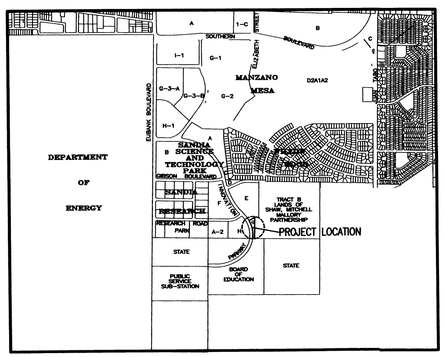


REQUIRED INFRASTRUCTURE
SATISFACTORY COMPLETION AND ACCEPTANCE OF ALL THE REQUIRED INFRASTRUCTURE SHALL BE A CONDITION OF A CERTIFICATE OF OCCUPANCY.
CONCUR: _____ PROPERTY OWNER

LEGAL DESCRIPTION

A certain tract of land situate within Section 33, Township 10 North, Range 4 East, New Mexico Principal Meridian, City of Albuquerque, Bernalillo County, New Mexico. Said tract being tract lettered "G" of SANDIA SCIENCE AND TECHNOLOGY PARK, as the same is shown and designated on the plat thereof, filed in the office of the COunty Clerk od Bernalillo County, New Mexico on December 13, 2001 in Map Book 2001C, folio 324.

Tract G contains 0.7229 of an acre, more or less.



LOCATION MAP

ZONE ATLAS INDEX MAP No. M-21

NOT TO SCALE

SITE DEVELOPMENT HYDROLOGICAL DATA

ONSITE DRAINAGE:

TOTAL BASIN AREA=0.63 ac
ZONE 3
DESIGN STORM EVENTS=100 yr.

EXISTING CONDITIONS:
LAND TREATMENT: 0.63 ac 'C'
Qp100=3.45 cfs/ac*0.63 ac = 2.17 cfs
Qp10=2.00 cfs/ac*0.63 ac = 1.26 cfs

PROPOSED CONDITIONS:

DURING THE CONSTRUCTION AND PERMANENT PHASE OF THIS PROJECT THE COMBINED RUNOFF FOR BOTH ON-SITE AND OFF-SITE BASINS WILL BE CONVEYED VIA INNOVATION PARKWAY SOUTH TO A TEMPORARY CUL-DE-SAC, WHERE RUNOFF WILL DRAIN THROUGH TWO CURB CUTS LOCATED ON THE EAST AND WEST SIDE OF THE CUL-DE-SAC. PRESENTLY, LAND SOUTH OF THE PROJECT SITE IS UNDEVELOPED AND SLOPES NORTH TO SOUTH TO THE TIJERAS ARROYO. ULTIMATELY, INNOVATION PARKWAY WILL BE EXTENDED SOUTH AND WEST TO EUBANK BLVD., THUS, ELIMINATING THE CUL-DE-SAC. THIS FUTURE ROADWAY EXTENSION WILL INCLUDE NEW STORM DRAIN THAT WILL CONVEY THE RUNOFF FROM THE PROJECT SITE, AND ADJACENT OFF-SITE BASIN, TO THE SOUTH EUBANK STORM DRAIN.

100-YR RUNOFF FROM THIS SITE IS RESTRICTED TO 1.57 cfs/ac, PER THE MASTER DRAINAGE REPORT, FEBRUARY 8. THE PROPOSED PLAN USES DETENTION PONDING TO ATTENUATE FLOWS TO THIS LEVEL.

THREE DETENTION PONDS WILL MITIGATE ON-SITE RUNOFF. THE TOTAL RUNOFF WILL BE LIMITED TO 1.57 cfs/ac., OR APPROXIMATELY 1.0 CFS. OVER THE ENTIRE PROJECT AREA. MINOR OFFSITE FLOWS WILL PASS THROUGH THE PROJECT SITE UNMITIGATED. EACH POND WILL OUTFALL TO THE INNOVATION PARKWAY VIA 1-2"ø PVC PIPE.

BASIN 2/POND2
TOTAL AREA=0.17 ac
LAND TREATMENT: 0.04 ac 'B', 0.11 ac 'C', 0.02 ac 'D'
EXCESS PRECIPITATION (E)=[(0.04ac x 0.92in.)+(0.11ac x 1.29in.)+(0.02ac x 2.36in.)]/0.17ac = 1.3in.
VOLUME (V_{100})=1.3in. x 0.17 ac)/12 = 0.018 ac-ft. = 784 cf.
MAX. POND DEPTH = 0.5 ft.; POND AREA REQUIRED = 1568 sf.
OUTFALL PIPE = 1-2" ø PVC PIPE
Q_{100} = 0.05 cfs w/ 0.5 ft. HEAD.

BASIN 3/POND 3
TOTAL AREA=0.23 ac
LAND TREATMENT: 0.17 ac 'B', 0.04 ac 'C', 0.02 ac 'D'
EXCESS PRECIPITATION (E)=[(0.17ac x 0.92in.)+(0.04ac x 1.29in.)+(0.02ac x 2.36in.)]/0.23ac = 1.1in.
VOLUME (V_{100})=1.1in. x 0.23ac)/12 = 0.021 ac-ft. = 915 cf.
MAX. POND DEPTH = 0.5 ft.; POND AREA REQUIRED = 1830 sf.
OUTFALL PIPE = 1-2" ø PVC PIPE
Q_{100} = 0.05 cfs w/ 0.5 ft. HEAD.

BASIN 4/POND 4
TOTAL AREA=0.12 ac
LAND TREATMENT: 0.02 ac 'B', 0.10 ac 'C'
EXCESS PRECIPITATION (E)=[(0.02ac x 0.92in.)+(0.10ac x 1.29in.)]/0.12ac = 1.2in.
VOLUME (V_{100})=1.1in. x 0.23ac)/12 = 0.021 ac-ft. = 915 cf.
MAX. POND DEPTH = 0.5 ft.; POND AREA REQUIRED = 872 sf.
OUTFALL PIPE = 1-2" ø PVC PIPE
Q_{100} = 0.05 cfs w/ 0.5 ft. HEAD.

BASIN 5
TOTAL AREA = 0.20 ac
LAND TREATMENT: 0.02 ac 'B', 0.11 ac 'C', 0.07 ac 'D'
Q_{100}=(0.02 x 2.6)+(0.11 x 3.45)+(0.07 x 5.02)=0.78 cfs

TOTAL FLOW PROJECT SITE = 0.05 + 0.05 + 0.05 + 0.78 = 0.93 cfs

OFF-SITE DRAINAGE:

TOTAL BASIN AREA=0.54 ac
ZONE 3
DESIGN STORM EVENTS=100 yr.

EXISTING CONDITIONS:
LAND TREATMENT: 0.46 ac 'C', 0.08 ac 'D'
Qp100=(3.45 cfs/ac*0.46 ac)+(5.02 cfs/ac*0.08 ac) = 2.00 cfs

REFERENCES:

CITY OF ALBUQUERQUE DEVELOPMENT PROCESS MANUAL, VOLUME 2, DESIGN CRITERIA, SECTION 22.2, HYDROLOGY.

MASTER DEVELOPMENT PLAN, SANDIA SCIENCE & TECHNOLOGY PARK, APPROVED JUNE, 2001.

MASTER DRAINAGE REPORT, SANDIA SCIENCE & TECHNOLOGY PARK, FEBRUARY 8, 2002.

EROSION CONTROL PLAN

EROSION CONTROL FOR THE ROUGH GRADING, PHASED DEVELOPMENT, AND CONSTRUCTION PHASE OF THE PROJECT WILL BE ACCOMPLISHED WITH SILT FENCING LOCATED ALONG THE NORTH AND WESTERN PERIMETER OF THE PROJECT AREA. EROSION CONTROL DURING THE PERMANENT PHASE WILL BE ACCOMPLISHED BY LANDSCAPING GROUND COVER, INCLUDING, GRAVEL, CONCRETE SIDEWALK, SOD TURF BLOCK, SOD, PLANTS AND TREES.

FLOOD HAZARD
THE PROJECT SITE IS NOT LOCATED IN A FLOOD HAZARD AREA. PLEASE REFER TO ATTACHED FIRM MAP #350002 0037.

PLANNING HISTORY

PLEASE REFER TO ATTACHED SANDIA SCIENCE & TECHNOLOGY PARK DRAINAGE MASTER PLAN.

FLOW ARROW

DRAINAGE BASIN BOUNDARY

KEYED NOTES

1 SIDEWALK WITHIN BASIN 3 SHALL HAVE A CROSS SECTIONAL SLOPE OF 2.0% TO THE EAST. ALL OTHER SIDEWALK SHALL HAVE A CROSS-SECTIONAL SLOPE OF 2.0% TO THE WEST.

2 MATCH TO STREET ELEVATIONS

3 TIE TO EXISTING GROUND MAX. SLOPE = 3:1.

GENERAL NOTES

1 SURVEY BASE INFORMATION TAKEN FROM ALTA/ACSM LAND TITLE SURVEY, TRACT G, SANDIA SCIENCE & TECHNOLOGY PARK, BY BOHANNAN HUSTON, DATED NOVEMBER, 2001.

2 SEE SITE LAYOUT SHEET FOR EXISTING UTILITY LOCATIONS.

0 10' 20' 40' 80'
1" = 20'

SPOT ELEVATIONS

SPOT #	ELEVATION	NORTHING	EASTING
1	5502.5	N 1476076.09	E 1558620.70
2	5503.0	N 1476060.67	E 1558634.40
3	5503.61	N 1476073.96	E 1558667.91
4	5503.36	N 1476029.20	E 1558647.53
5	5503.61	N 1476083.32	E 1558685.57
6	5503.61	N 1476056.82	E 1558699.62
7	5503.74	N 1476066.18	E 1558717.30
8	5504.0	N 1476054.70	E 1558723.38
9	5503.61	N 1476047.42	E 1558681.99
10	5503.5	N 1476044.35	E 1558676.11
11	5503.5	N 1476017.23	E 1558653.27
12	5506.1	N 1475992.63	E 1558704.08
13	5503.5	N 1475991.61	E 1558669.30
14	5503.5	N 1475959.68	E 1558681.88
15	5503.0	N 1475931.17	E 1558695.21
16	5503.5	N 1475929.81	E 1558687.86
17	5503.5	N 1475902.15	E 1558699.37
18	5503.0	N 1475932.05	E 1558713.09
19	5506.1	N 1475851.98	E 1558717.21
20	5503.0	N 1475867.96	E 1558706.52
21	5503.0	N 1475852.03	E 1558706.62
22	5503.0	N 1475828.15	E 1558709.95
23	5502.42	N 1475794.22	E 1558717.34
24	5502.0	N 1475773.63	E 1558716.14
25	5502.0	N 1475762.72	E 1558731.30
26	5502.0	N 1475723.29	E 1558721.50
27	5502.0	N 1475723.02	E 1558737.62
28	5501.0	N 1475684.23	E 1558716.57
29	5502.0	N 1475682.77	E 1558727.99

ASCG INCORPORATED
ENGINEERS • ARCHITECTS • SURVEYORS • INSPECTION SERVICES
6501 AMERICAS PARKWAY, NE - SUITE 820
ALBUQUERQUE, NEW MEXICO 87110-8132
PHONE 505.247.0294 • FAX 505.242.4845

ENTERPRISE ELECTRICAL SERVICES INC.
9708 BELL AVE. SE
ALBUQUERQUE, NEW MEXICO
87123

SUMMIT CONSTRUCTION
900 HAZELDINE AVE. SE
ALBUQUERQUE, NEW MEXICO
87106

SANDIA SCIENCE AND TECHNOLOGY PARK

TELECOMMUNICATIONS DISTRIBUTION SYSTEM
SANDIA SCIENCE AND TECHNOLOGY PARK

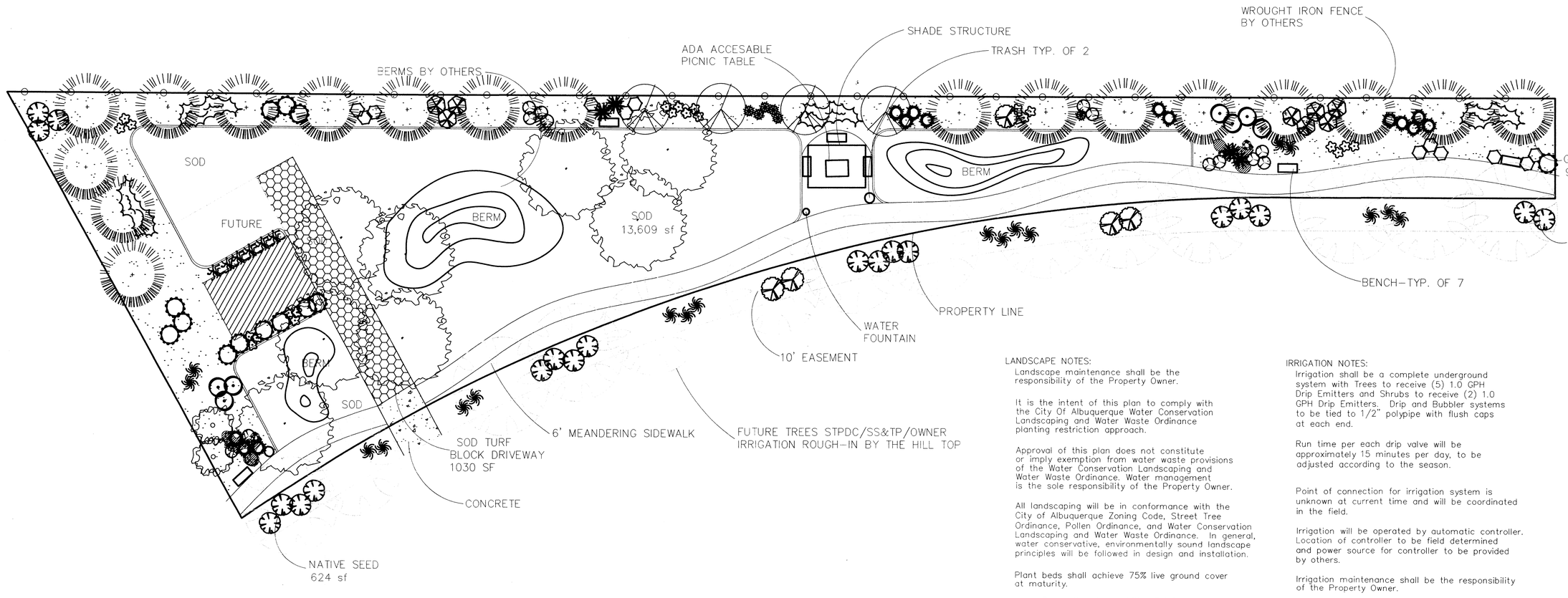
GRADING AND DRAINAGE PLAN

REVISIONS

NUMBER:	DATE:

JOB NO:
DATE:
DRAWN BY: CAB
CHECKED BY: PR
DRAWING NO: C-2
SHEET OF

C:\SSTP\dwg\CIVIL\GRADEDRN_PLAN.dwg\CAB\03-25-03



LANDSCAPE NOTES:

Landscape maintenance shall be the responsibility of the Property Owner.

It is the intent of this plan to comply with the City Of Albuquerque Water Conservation Landscaping and Water Waste Ordinance planting restriction approach.

Approval of this plan does not constitute or imply exemption from water waste provisions of the Water Conservation Landscaping and Water Waste Ordinance. Water management is the sole responsibility of the Property Owner.

All landscaping will be in conformance with the City of Albuquerque Zoning Code, Street Tree Ordinance, Pollen Ordinance, and Water Conservation Landscaping and Water Waste Ordinance. In general, water conservative, environmentally sound landscape principles will be followed in design and installation.

Plant beds shall achieve 75% live ground cover at maturity.

Mesa Brown Gravel over Filter Fabric shall be placed in all landscape areas which are not designated to receive native seed.

IRRIGATION NOTES:

Irrigation shall be a complete underground system with Trees to receive (5) 1.0 GPH Drip Emitters and Shrubs to receive (2) 1.0 GPH Drip Emitters. Drip and Bubbler systems to be tied to 1/2" polypipe with flush caps at each end.

Run time per each drip valve will be approximately 15 minutes per day, to be adjusted according to the season.

Point of connection for irrigation system is unknown at current time and will be coordinated in the field.

Irrigation will be operated by automatic controller. Location of controller to be field determined and power source for controller to be provided by others.

Irrigation maintenance shall be the responsibility of the Property Owner.

PLANT LEGEND

HONEY LOCUST (M) 8
2" Cal.

AUSTRIAN PINE (M) 18
8' MIN.

REDBUD (M) 4
1-1/2" Cal.

FUTURE TREE
BY STPDC/SS&TP/OWNER
UPON COMPLETION
OF CONSTRUCTION OF
STREET

CRABAPPLE (M) 2
15 Gal.

FOUNTAIN GRASS (L) 18
1 Gal.

COTONEASTER (M) 5
1 Gal.

MESA BROWN GRAVEL
WITH FILTER FABRIC
4" DEEP

RED YUCCA (L) 4
1 Gal.

PHOTINIA (M) 13
1 Gal.

CREEPING MAHONIA (M) 6
1 Gal.

SOD

SOD
SEE SECTION 1010 OF COA SPEC.

BLUE MIST(L) 6
1 Gal.

INDIAN HAWTHORN (M) 8
1 Gal.

CHAMISA (L) 20
1 Gal.

AUTUMN SAGE (L) 12
1 Gal.

POTENTILLA (M) 22
1 Gal.

RUSSIAN SAGE (L) 7
1 Gal.

6"x6" MOW CURB
SEE COA STANDARD DWG-2726

SCOTCH BROOM (M) 14
1 Gal.

JUNIPER (M) 12
1 Gal.
Symbol indicates three plants.

WILDFLOWER (L) 14
1 Gal.

OVERSIZED GRAVEL
& 6 BOULDERS

LANDSCAPE CALCULATIONS

NET LANDSCAPE AREA

TOTAL LOT AREA	27,577	square feet
TOTAL BUILDINGS AREA	600	square feet
NET LOT AREA	26,977	square feet
OFFSITE AREA	4,730	square feet

TOTAL LANDSCAPE PROVIDED	27,872	square feet
TOTAL SOD REQUIRED (50% OF NET)	13,488	square feet
TOTAL SOD PROVIDED	13,609	square feet
TOTAL BED PROVIDED	9,427	square feet
TOTAL NATIVE SEED PROVIDED	4,836	square feet

TOTAL TREES REQUIRED 19
(1 PER 1500 SF OF LANDSCAPE AREA)

TOTAL TREES PROVIDED 32

FINAL LANDSCAPING LAYOUT AND DESIGN TO BE DETERMINED UPON RECEIPT OF FINAL GRADING PLAN.

The Hilltop
LANDSCAPE ARCHITECTS & CONTRACTORS
Cont. Lic. #26458
7909 Edith N.E.
Albuquerque, NM 87184
Ph. (505) 898-9690
Fax (505) 898-7737
iW@hilltoplandscaping.com

GRAPHIC SCALE

16 8 0 8 16

SCALE: 1/16"=1'

ASCG INCORPORATED
ENGINEER - ARCHITECTS - SURVEYORS - INSPECTION SERVICES
6501 AMERICAS PARKWAY NE, SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-8172
PHONE 505.247.0294 FAX 505.242.4845

ENTERPRISE ELECTRICAL SERVICES INC.
9708 BELL AVE. SE
ALBUQUERQUE, NEW MEXICO 87123

SUMMIT CONSTRUCTION
900 HAZELDINE AVE. SE
ALBUQUERQUE, NEW MEXICO 87106

SANDIA SCIENCE AND TECHNOLOGY PARK
1505 INNOVATION S.E.
ALBUQUERQUE, N. M.

TELECOMMUNICATIONS DISTRIBUTION SYSTEM
AT THE SANDIA SCIENCE AND TECHNOLOGY PARK

SITE PLAN
LANDSCAPE

REVISIONS

NUMBER:	DATE:

JOB NO.:
DATE: APRIL 4, 2003
DRAWN BY:
CHECKED BY:
DRAWING NO.: L-1
SHEET OF

U:\SITE\20288\DWG\LITTLE-28-02

GENERAL NOTES

A REFER TO GENERAL NOTES SHEET S-1 FOR REQUIREMENTS.

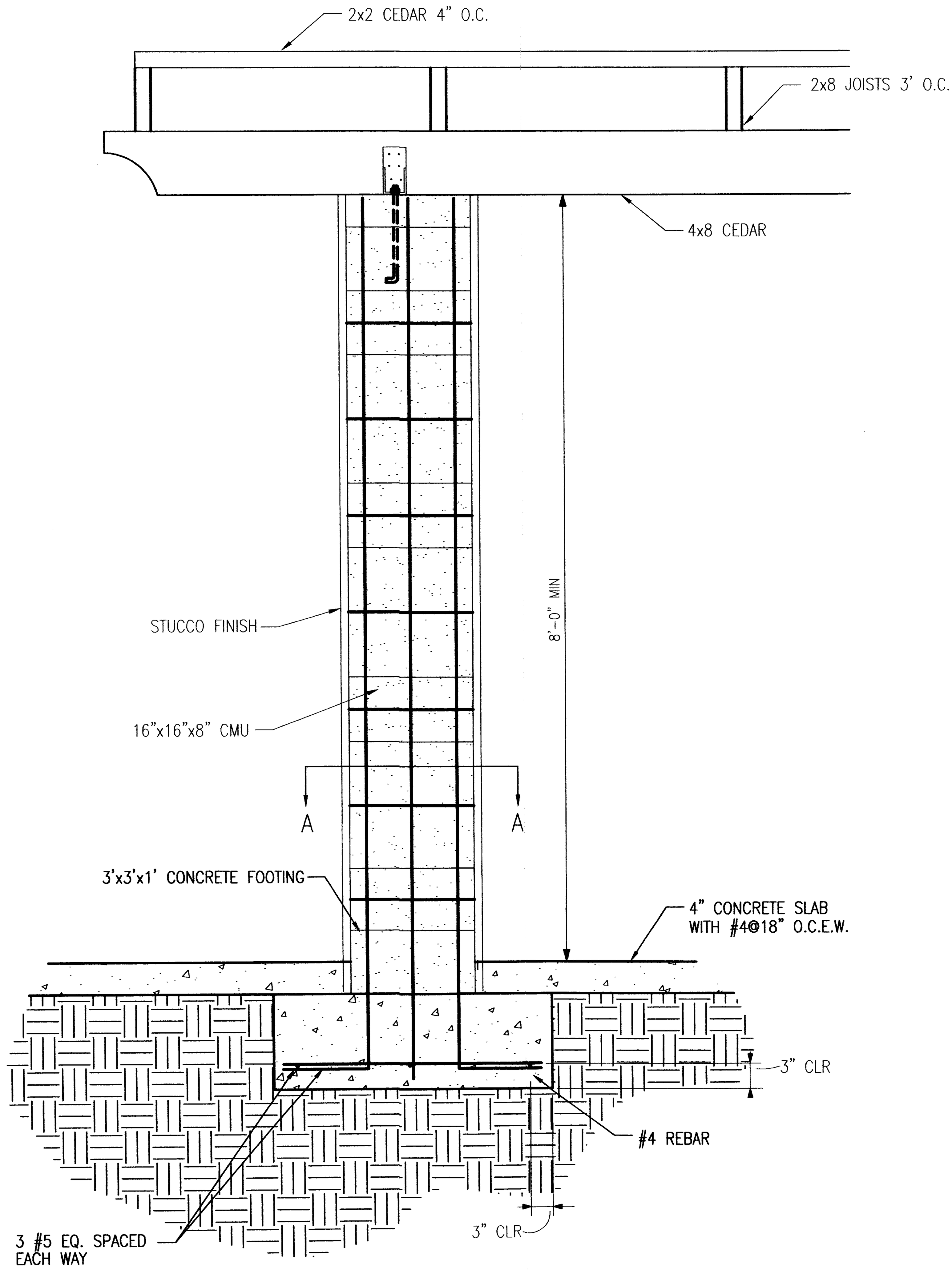
B WESTERN CEDAR MINIMUM GRADE:
2x2 NO.2
2x8 NO.2
4x8 NO.2

KEYED NOTES

1 HOLD DOWN-4 TOTAL SIMPSON HDA/HD TYPE WITH 1 1/2" CARBON STEEL HILTI KWIK BOLT 11 WITH MINIMUM EMBEDMENT 6" OR EQUIVALENT OR USE SIMPSON HGLB (BEAM SEAT) TYPE OR EQUIVALENT.

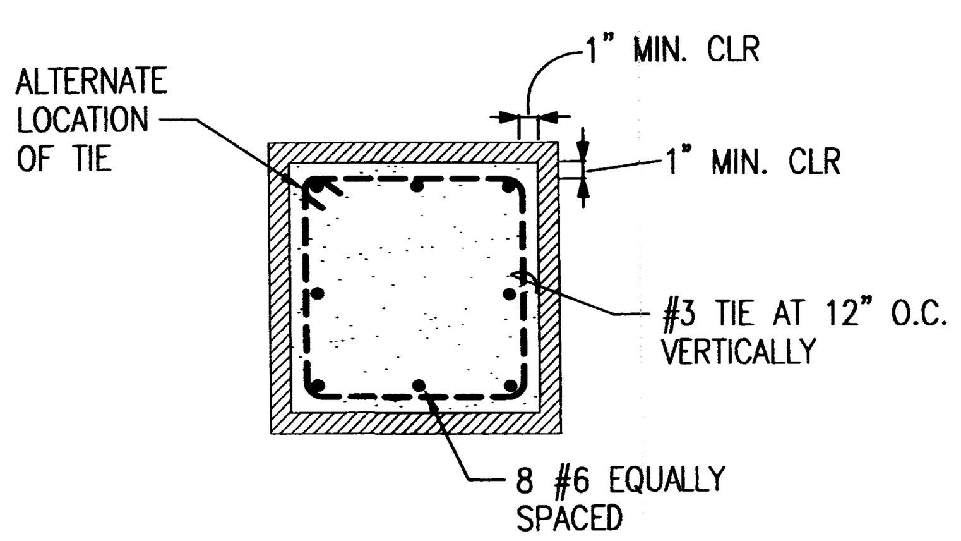
2 FRAMING ANGLE-12 TOTAL SIMPSON A35 TYPE MINIMUM 18 GAUGE OR EQUIVALENT.

3 FRAMING ANGLE 144 TOTAL SIMPSON A34 TYPE MINIMUM 18 GUAGE OR EQUIVALENT.



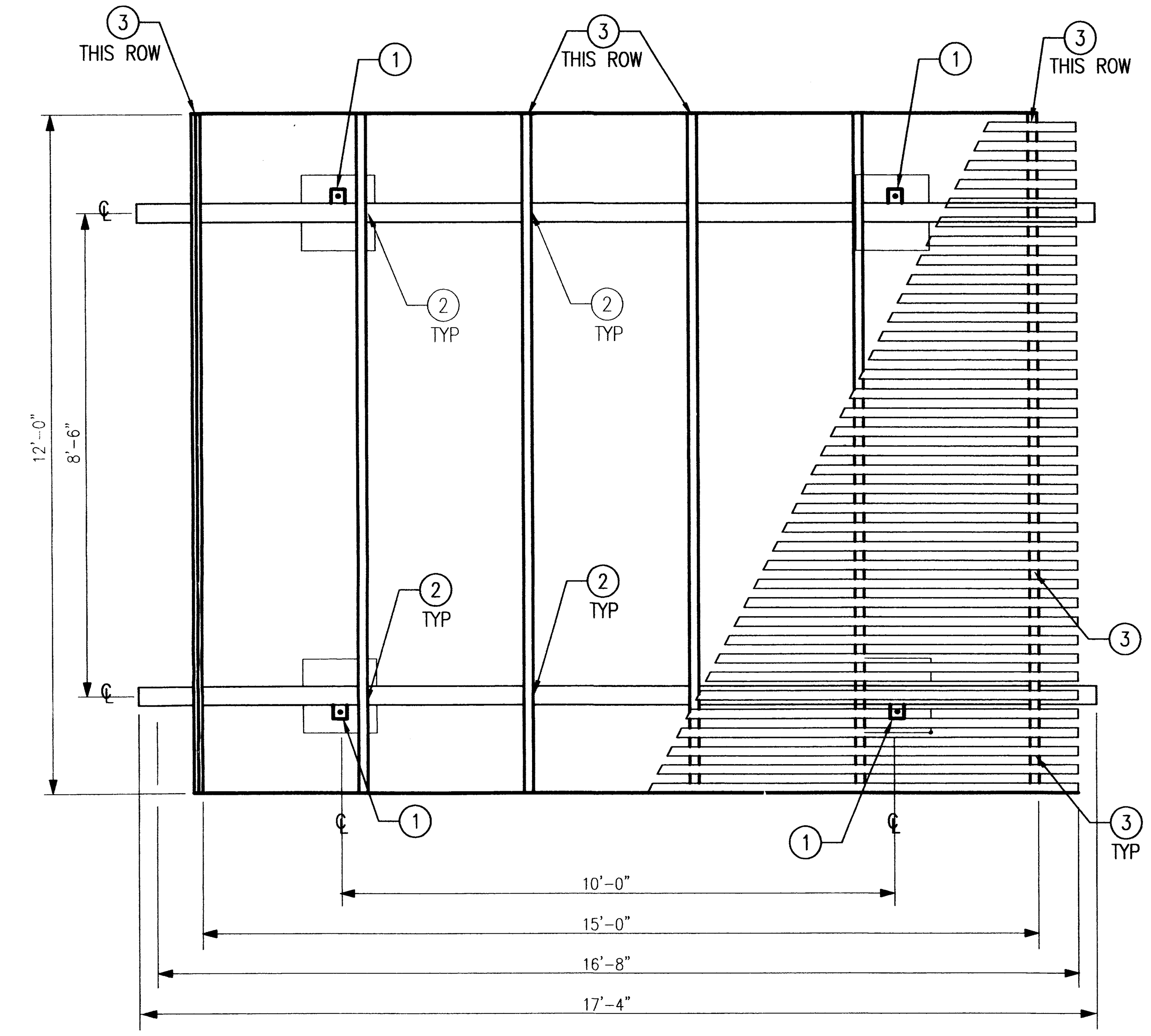
SHADE STRUCTURE DETAIL

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



SECTION 'A'

1/2"=1'-0"



SHADE STRUCTURE PLAN

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

J:\SSTP\dwg\Elect\E-3.dwg\TLM\03-17-03

ASCG INCORPORATED
ENGINEERS • ARCHITECTS • SURVEYORS • INSPECTION SERVICES
6501 AMERICAS PARKWAY NE, SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-5372
PHONE 505.247.0294 • FAX 505.242.4845

ENTERPRISE ELECTRICAL SERVICES INC.
9708 BELL AVE. SE
ALBUQUERQUE, NEW MEXICO
87123

SUMMIT CONSTRUCTION
900 HAZELDINE AVE. SE
ALBUQUERQUE, NEW MEXICO
87106

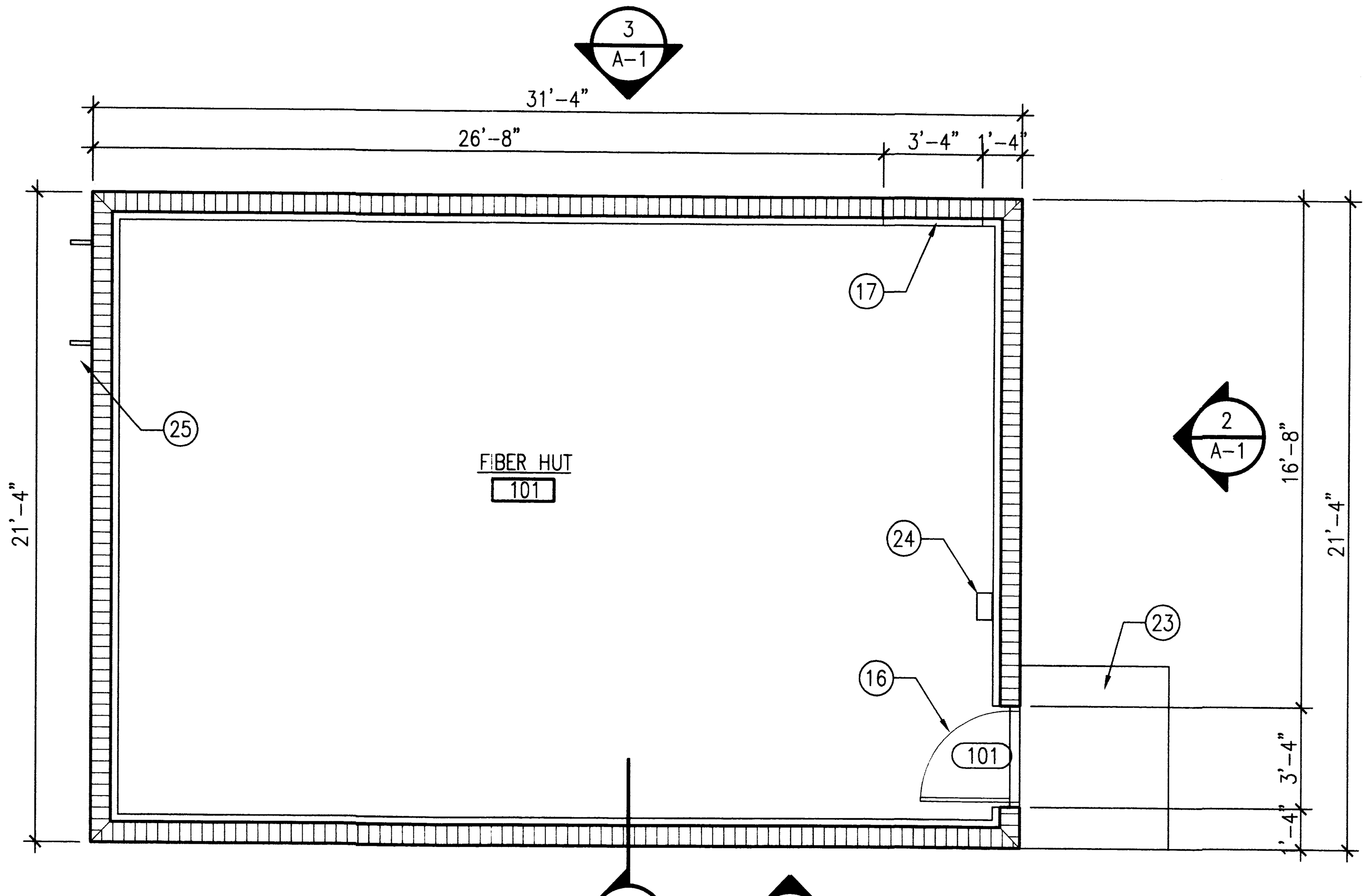
SANDIA SCIENCE AND TECHNOLOGY PARK
1505 INNOVATION S.E.
ALBUQUERQUE, N. M.

TELECOMMUNICATIONS DISTRIBUTION SYSTEM AT THE SANDIA SCIENCE AND TECHNOLOGY PARK

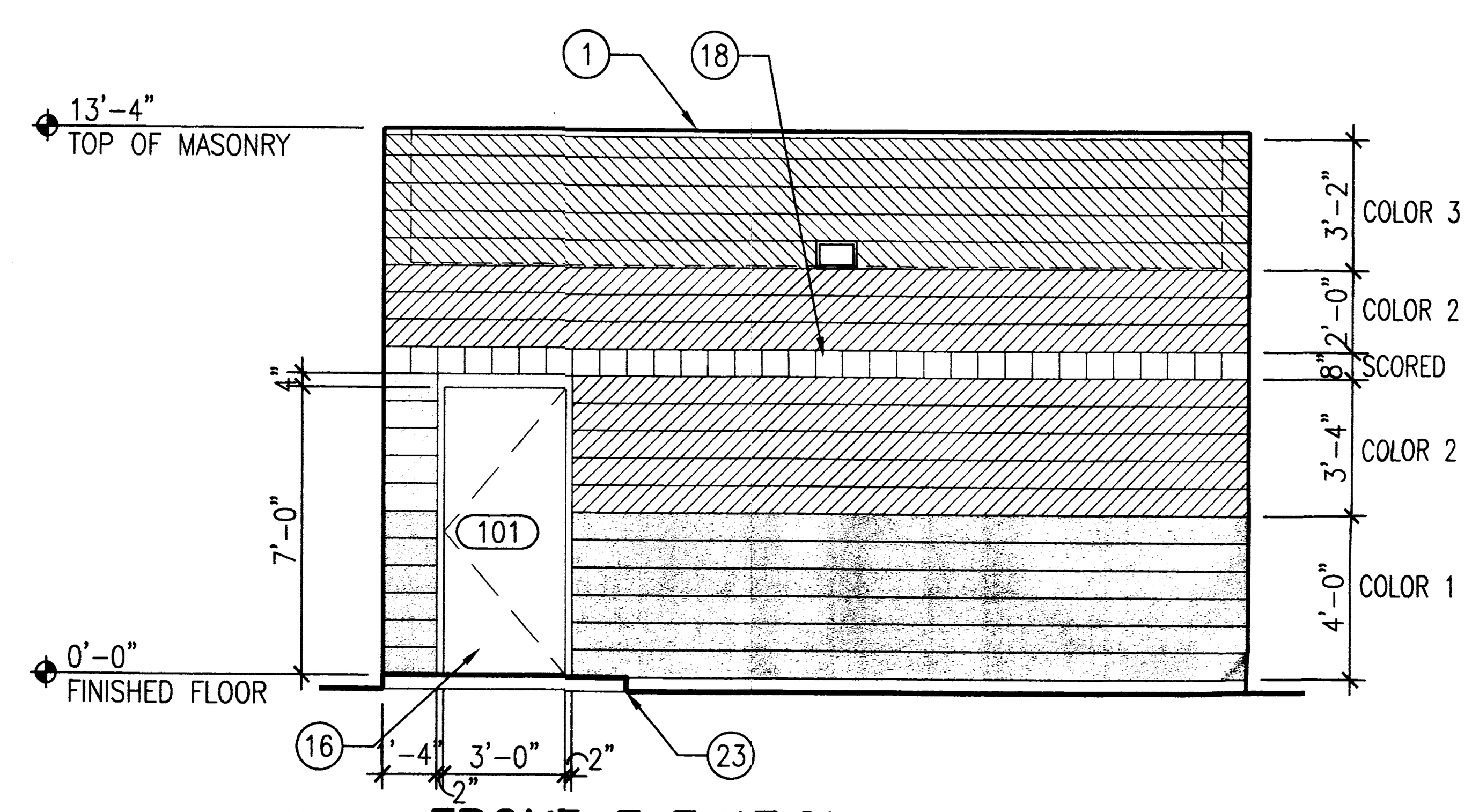
SHADE STRUCTURE PLAN AND DETAIL

REVISIONS	
NUMBER:	DATE:

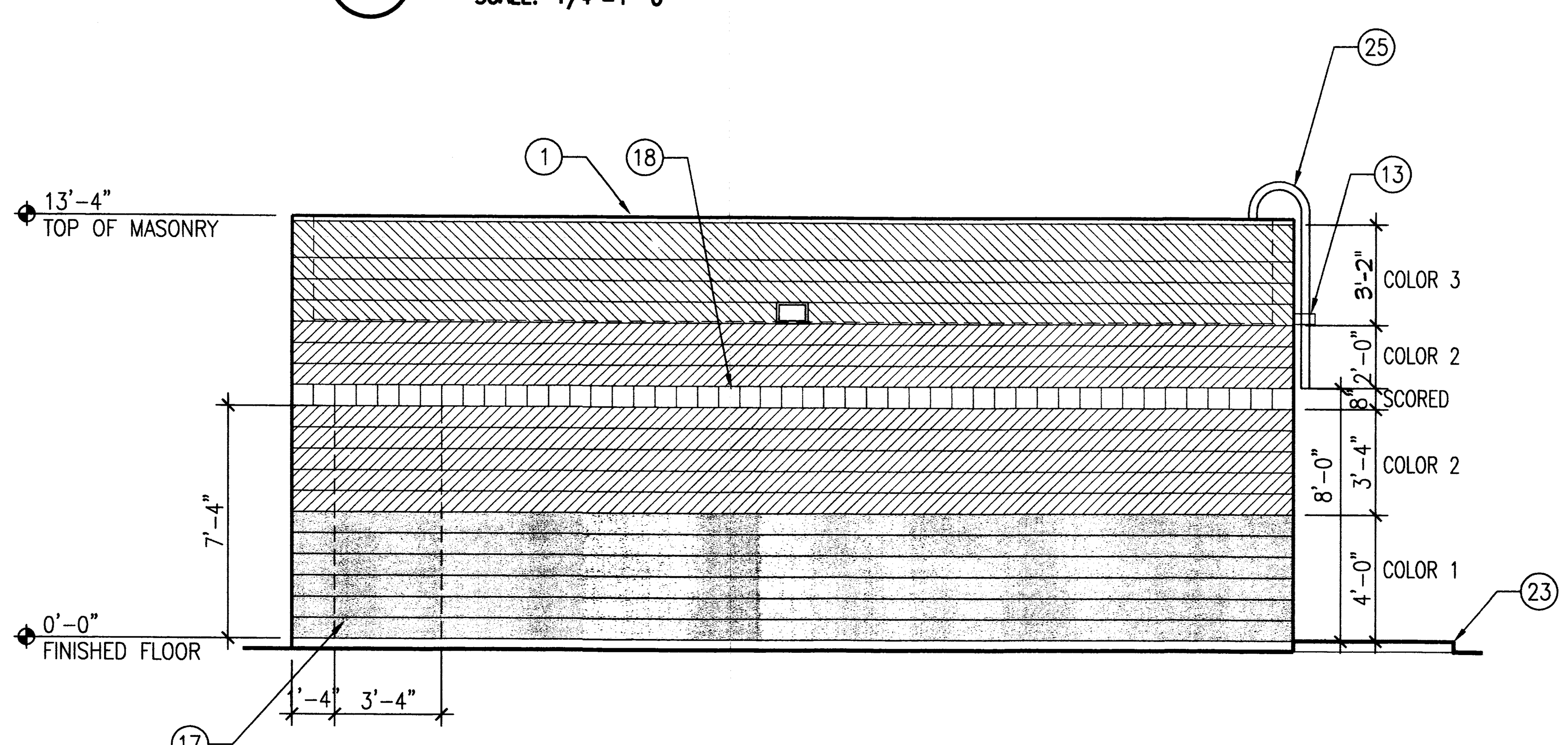
JOB NO: 20288
DATE: APRIL 4, 2003
DRAWN BY: TLM
CHECKED BY: RES
DRAWING NO: S2
SHEET OF



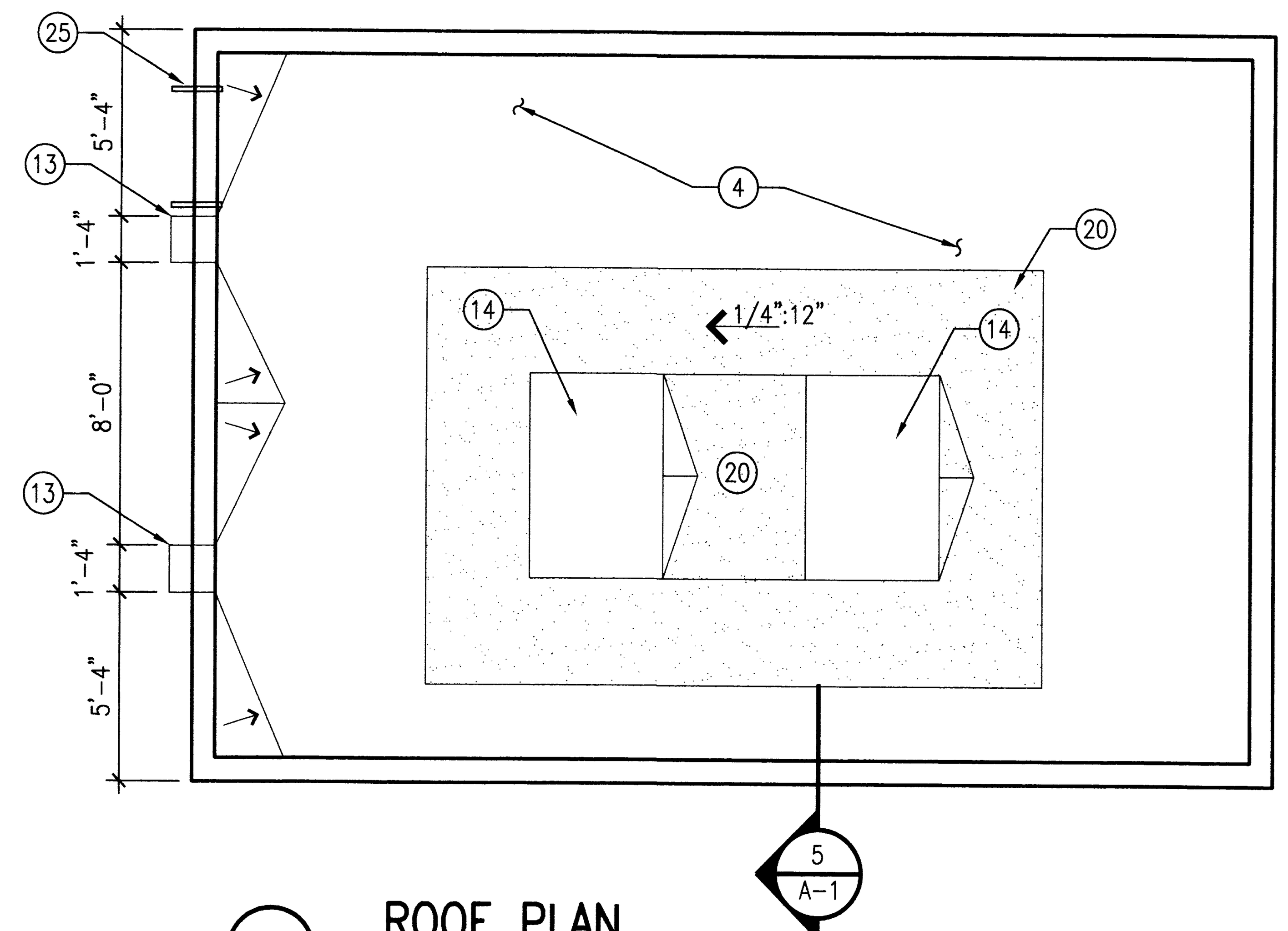
1 FLOOR PLAN
SCALE: 1/4"=1'-0"



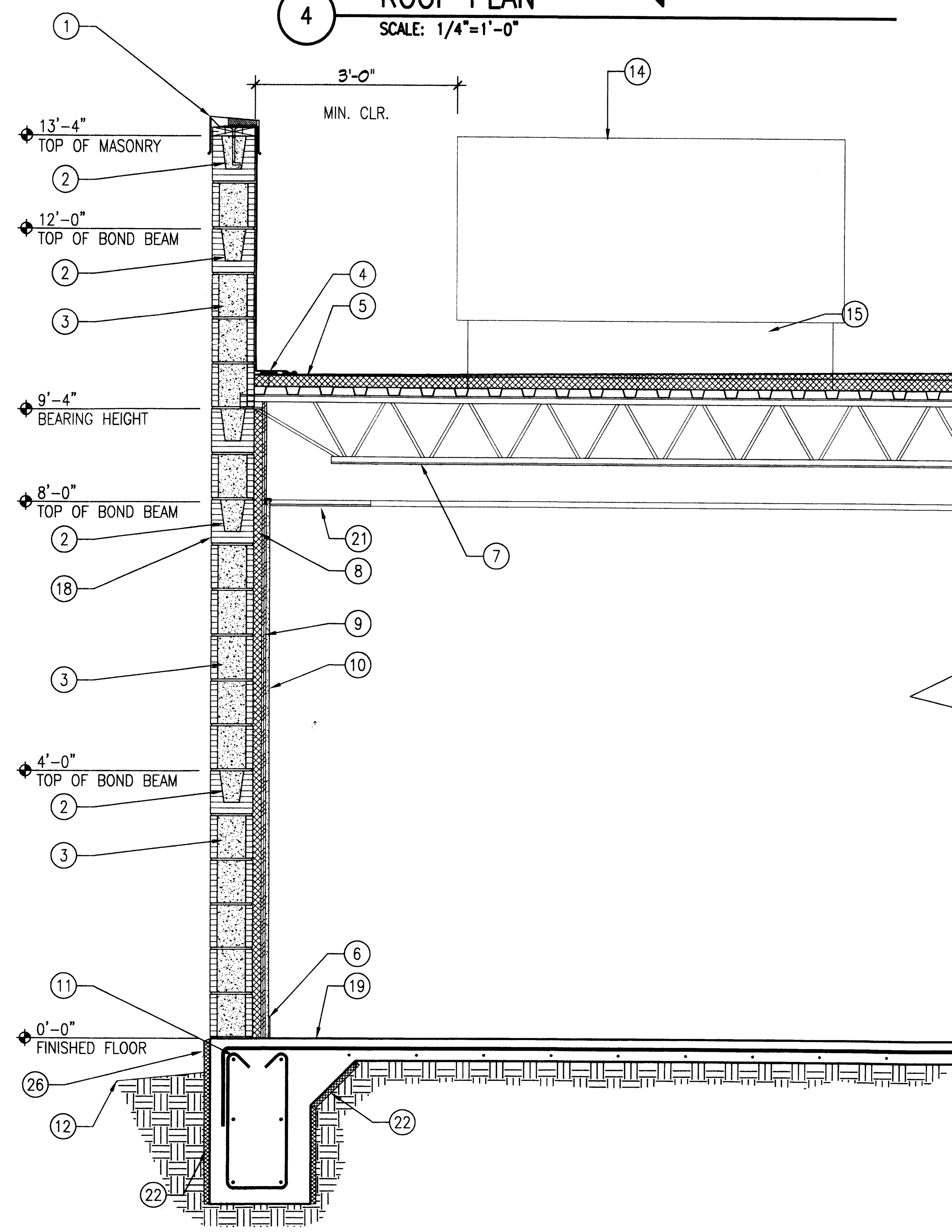
2 FRONT ELEVATION
SCALE: 1/4"=1'-0"



3 SIDE ELEVATION
SCALE: 1/4"=1'-0"



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



5 WALL SECTION - TYPICAL
SCALE: 3/4"=1'-0"

KEYED NOTES ○

1 METAL COPING, PAINTED
2 8" CONCRETE BOND BEAM
3 8" CONCRETE MASONRY UNIT, SOLID GROUTED, REINFORCED
4 SINGLE MEMBRANE ROOFING SYSTEM. WRAP UNDER METAL COPING
5 TAPERED RIGID INSULATION, MINIMUM 4" THICK
6 4" VINYL BASE
7 OPEN WEB STEEL JOIST, PAINTED (SEE STRUCTURAL)
8 Z FURRING CHANNEL WITH RIGID INSULATION R-19
9 5/8" GYPSUM BOARD TO 8'-0" A.F.F. PAINT
10 3/4" PLYWOOD TO ROOF DECK, PAINT
11 FOUNDATION SYSTEM
12 FINISHED GRADE, SLOPE AWAY FROM BUILDING
13 8"x16" GALVANIZED METAL SCUPPER, 22 GA.
14 ROOF TOP UNIT (SEE MECHANICAL)
15 12" CURB (SEE MECHANICAL)
16 3'-0" x 7'-0" HOLLOW METAL INSULATED DOOR WITH HALLOW METAL FRAME, PAINTED. PROVIDE DEAD BOLT, PULL HANDLES BOTH SIDES AND CLOSER
17 LOCATION OF FUTURE DOOR
18 SMOOTH SCORED 8" CMU WITH INTERGRATED COLOR. COLOR SELECTION TO BE MADE IN FIELD
19 CONCRETE SLAB WITH SHEET VINYL FLOORING
20 MEMBRANE WALKPAD
21 LADDER RACK, SEE ELECTRICAL
22 1" PERIMETER INSULATION
23 5'-0" x 6'-0" CONCRETE STOOP
24 SEMI RECESS FIRE EXTINGUSHER CABINET AND FIRE EXTINGUSHER.
25 ROOF ACCESS LADDER.
26 METAL FLASHING MATCH CMU COLOR.

LEGEND

CONCRETE MASONRY UNIT - SPLIT FACE COLOR 1 COLOR SELECTION TO BE MADE IN FIELD

CONCRETE MASONRY UNIT - SPLIT FACE COLOR 2 COLOR SELECTION TO BE MADE IN FIELD

CONCRETE MASONRY UNIT - SPLIT FACE COLOR 3 COLOR SELECTION TO BE MADE IN FIELD

STATE OF NEW MEXICO
DAVID W. TURNER
No. 1004

ASCG INCORPORATED
ENGINEERS - ARCHITECTS - SURVEYORS - INSPECTION SERVICES
6501 AMERICAS PARKWAY NE, SUITE 400
ALBUQUERQUE, NEW MEXICO 87110-5372
PHONE 505.247.0294 - FAX 505.242.4845

ENTERPRISE ELECTRICAL SERVICES INC.
9708 BELL AVE. SE
ALBUQUERQUE, NEW MEXICO
87123

SUMMIT CONSTRUCTION
900 HAZELDINE AVE. SE
ALBUQUERQUE, NEW MEXICO
87106

SANDIA SCIENCE AND TECHNOLOGY PARK
1505 INNOVATION S.E.
ALBUQUERQUE, N. M.

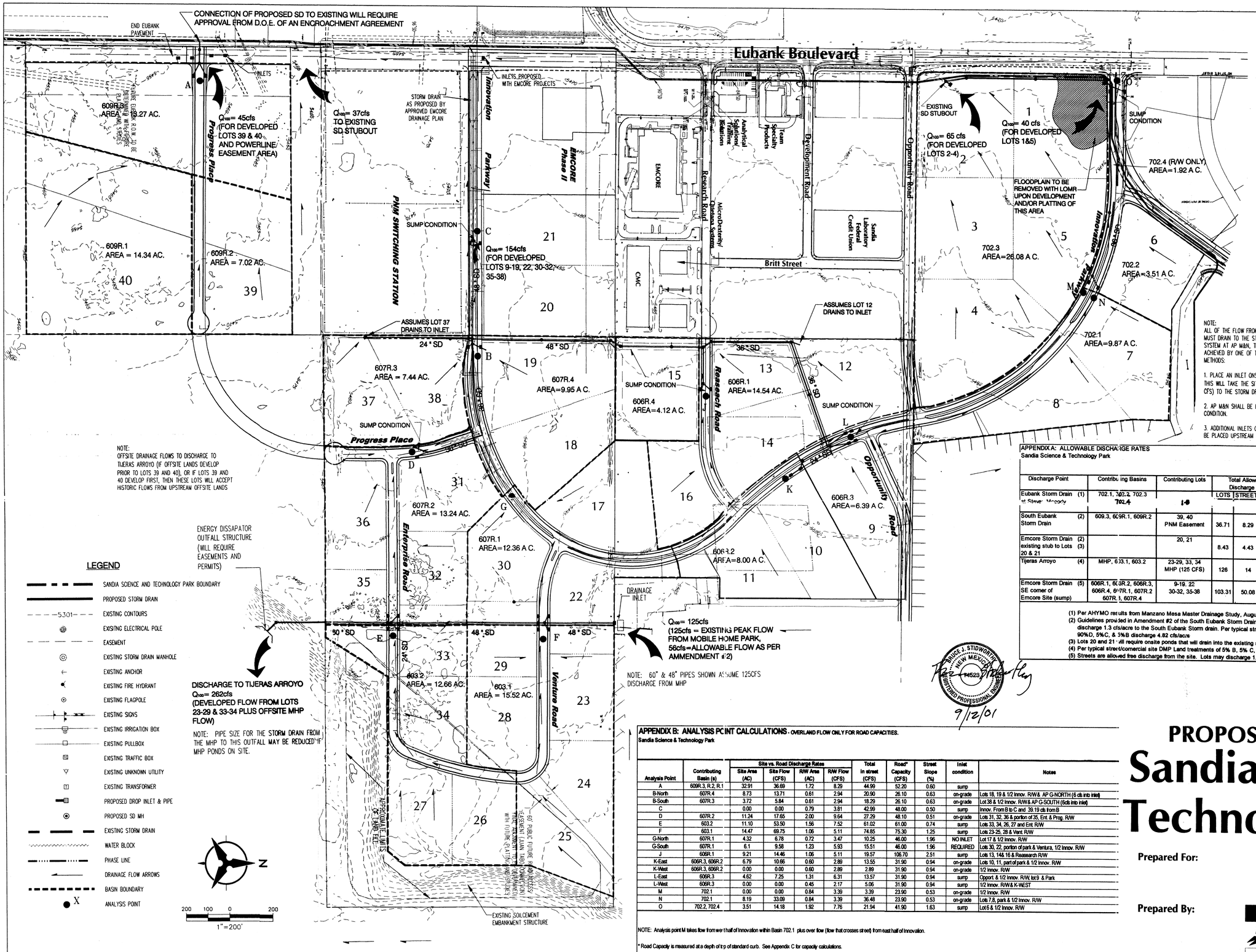
TELECOMMUNICATONS DISTRIBUTION SYSTEM
AT THE SANDIA SCIENCE AND TECHNOLOGY PARK

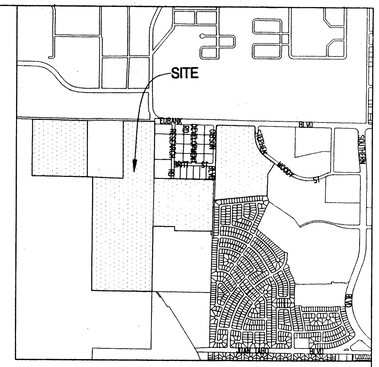
FLOOR PLAN, ROOF PLAN, ELEVATIONS AND SECTION

REVISIONS

NUMBER:	DATE:

JOB NO:	20288
DATE:	APRIL 4, 2003
DRAWN BY:	BB
CHECKED BY:	JZ
DRAWING NO:	A-1
SHEET	1 OF





VICINITY MAP
L-21-Z , M-21-Z

NOTES:
1. INLETS SHOWN ARE SCHEMATIC, NUMBER AND TYPE OF INLETS TO BE DEFINED WITH DRC SUBMITTALS
2. LOT LINES SHOWN ARE FOR ILLUSTRATIVE PURPOSES ONLY

APPENDIX A: ALLOWABLE DISCHARGE RATES
Sandia Science & Technology Park

Discharge Point	Contributing Basins	Contributing Lots	Total Allowable Discharge (cfs)			Area (acres)			Allowable Discharge (cfs/acre)			Total Discharge (cfs)
			LOTS	STREETS	TOTAL	LOTS	STREETS	TOTAL	LOTS	STREETS	TOTAL	
Eubank Storm Drain (1) at Steve Moody	702.1, 702.2, 702.3 702.4	1-8			167	37.39	4.00	41.39				167
South Eubank Storm Drain (2)	609.3, 609R.1, 609R.2	39, 40 PNM Easement	36.71	8.29	45	32.91	1.72	34.63	1.12	4.82	1.3	45
Emcore Storm Drain (2) existing stub to Lots (3) 20 & 21		20, 21	8.43	4.43	13	8.97	0.92	9.89	0.94	4.82	1.3	13
Tijeras Arroyo (4)	MHP, 603.1, 603.2	23-29, 33, 34 MHP (125 CFS)	126	14	264	26.17	2.62	28.79	4.82	4.82	4.82	264
Emcore Storm Drain (5) SE corner of Emcore Site (sump)	606R.1, 606R.2, 606R.3, 606R.4, 607R.1, 607R.2 607R.3, 607R.4	9-19, 22 30-32, 35-38	103.31	50.08	154	65.8	10.39	76.19	1.57	4.82	2.02	153

(1) Per AHYMO results from Manzano Mesa Master Drainage Study, August 1996 (Basin 702) Allowable Discharge is 167 cfs.
(2) Guidelines provided in Amendment #2 of the South Eubank Storm Drain Analysis indicates that Lots 20, 21, 39, amd 40 may discharge 1.3 cfs/acre to the South Eubank Storm drain. Per typical street/comercial site DPM Land treatments of 90%D, 5%C, & 5%B discharge 4.82 cfs/acre
(3) Lots 20 and 21 will require onsite ponds that will drain into the existing stub from Emcore storm drain.
(4) Per typical street/comercial site DMP Land treatments of 5% B, 5% C, 90% D or 4.82 cfs/ acre
(5) Streets are allowed free discharge from the site. Lots may discharge 1.57 cfs w/ small onsite private ponds.

BRUCE J. STIDWORTHY NEW MEXICO 14523 REGISTERED PROFESSIONAL ENGINEER
9/12/01

APPENDIX B: ANALYSIS POINT CALCULATIONS - OVERLAND FLOW ONLY FOR ROAD CAPACITIES.
Sandia Science & Technology Park

Analysis Point	Contributing Basin (s)	Site vs. Road Discharge Rates: Site Area (AC)	Site Flow (CFS)	R/W Area (AC)	R/W Flow (CFS)	Total in street (CFS)	Road* Capacity (CFS)	Street Slope (%)	Inlet condition	Notes
A	609R.3, R.2, R.1	32.91	36.69	1.72	8.29	44.99	52.20	0.60	sump	
B-North	607R.4	8.73	13.71	0.61	2.94	20.90	26.10	0.63	on-grade	Lots 18, 19 & 1/2 Innov. R/W& AP G-NORTH (6 cfs into inlet)
B-South	607R.3	3.72	5.84	0.61	2.94	18.29	26.10	0.63	on-grade	Lot 38 & 1/2 Innov. R/W& AP G-SOUTH (6cfs into inlet)
C		0.00	0.00	0.79	3.81	42.99	48.00	0.50	sump	Innov. From B to C and 39.19 cfs from B
D	607R.2	11.24	17.65	2.00	9.64	27.29	48.10	0.51	on-grade	Lots 31, 32, 36 & portion of 35, Ent. & Prog. R/W
E	603.2	11.10	53.50	1.56	7.52	61.02	61.00	0.74	sump	Lots 33, 34, 26, 27 and Ent. R/W
F	603.1	14.47	69.75	1.06	5.11	74.85	75.30	1.25	sump	Lots 23-25, 28 & Vent. R/W
G-North	607R.1	4.32	6.78	0.72	3.47	10.25	46.00	1.96	NO INLET	Lot 17 & 1/2 Innov. R/W
G-South	607R.1	6.1	9.58	1.23	5.93	15.51	46.00	1.96	REQUIRED	Lots 30, 22, portion of park & Ventura, 1/2 Innov. R/W
J	606R.1	9.21	14.46	1.06	5.11	19.57	106.70	2.51	sump	Lots 13, 14& 16 & Reasearch R/W
K-East	606R.3, 606R.2	6.79	10.66	0.60	2.89	13.55	31.90	0.94	on-grade	Lots 10, 11, part of park & 1/2 Innov. R/W
K-West	606R.3, 606R.2	0.00	0.00	0.60	2.89	2.89	31.90	0.94	on-grade	1/2 Innov. R/W
L-East	606R.3	4.62	7.25	1.31	6.31	13.57	31.90	0.94	sump	Opport. & 1/2 Innov. R/W, lot 9 & Park
L-West	606R.3	0.00	0.00	0.45	2.17	5.06	31.90	0.94	sump	1/2 Innov. R/W & K-WEST
M	702.1	0.00	0.00	0.84	3.39	3.39	23.90	0.53	on-grade	1/2 Innov. R/W
N	702.1	8.19	33.09	0.84	3.39	36.48	23.90	0.53	on-grade	Lots 7,8, park & 1/2 Innov. R/W
O	702.2, 702.4	3.51	14.18	1.92	7.76	21.94	41.90	1.63	sump	Lot 6 & 1/2 Innov. R/W

NOTE: Analysis point M takes flow from wer t half of Innovation within Basin 702.1 plus over flow (flow that crosses street) from east half of Innovation.

* Road Capacity is measured at a depth of top of standard curb. See Appendix C for capacity calculations.

PROPOSED BASIN MAP
Sandia Science & Technology Park

Prepared For:
Science and Technology Park
Development Corporation
Albuquerque, New Mexico 87120

Prepared By:
Bohannan Huston
Courtyard One 7500 JEFFERSON NE Albuquerque NEW MEXICO 87109
ENGINEERS PLANNERS PHOTOGRAMMETRISTS SURVEYORS SOFTWARE DEVELOPERS

P:\01222\cdp\genera\01222DP01.dwg
Sep 04, 2001 - 11:01am