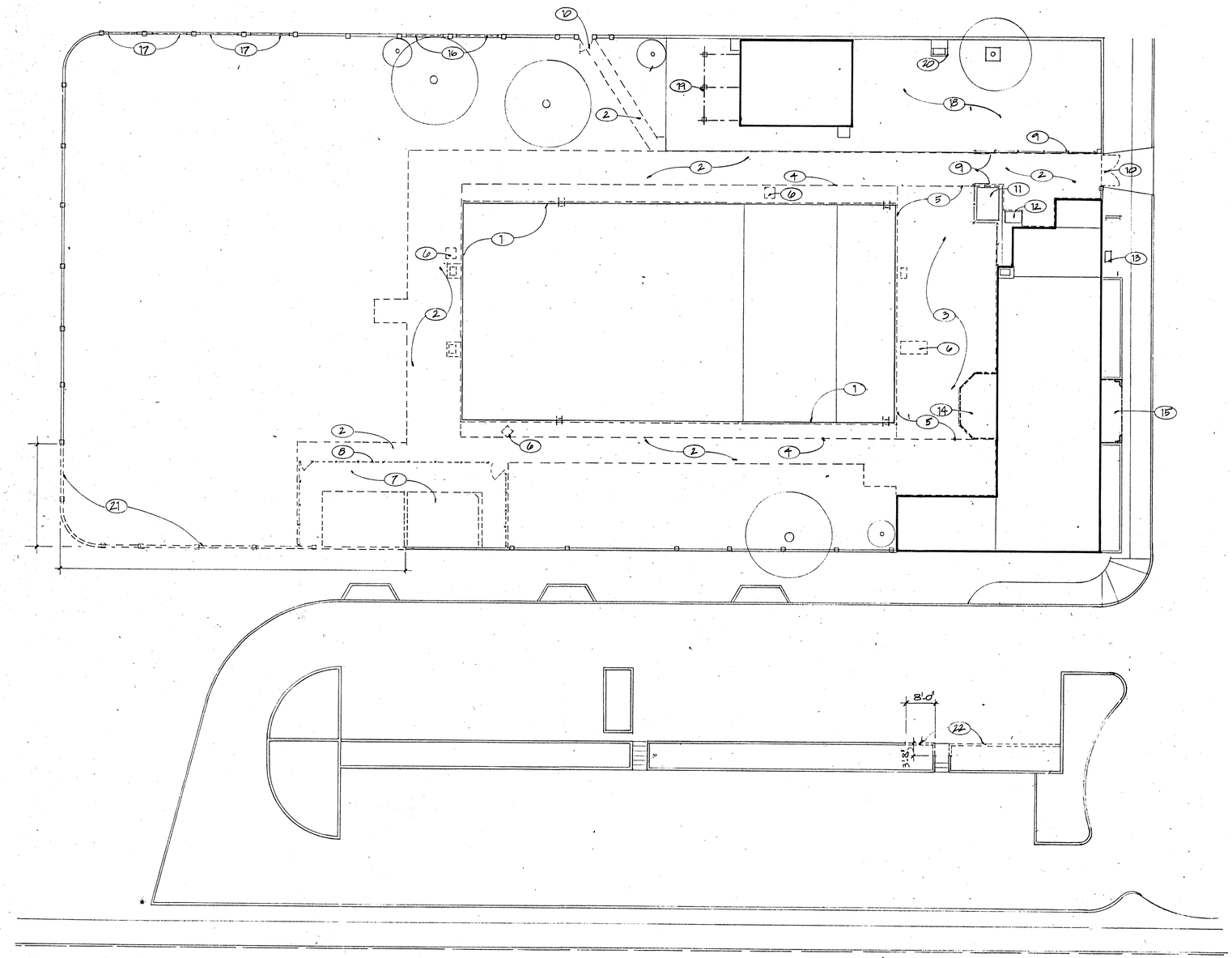
RENOVATION OF SUNPORT POOL

AND RIO GRANDE POOL

DESIGN DEVELOPMENT SUBMITTAL APRIL 16, 1993

Kells and Craig

Architects, Inc. • AIA • 912 Roma, N.W. • Albuquerque, New Mexico, 87102 • (505) 243-ARCH



Site and Pool Demolition Plan
1/16"=1'-0"

SP SHEET C1

KEYED NOTES

1. Existing gutter to be removed - cut down pool wall as required for installation of new gutter.
2. Slab on grade to be removed.
3. Topping slab over mechanical room to be removed. Care shall be taken not to damage structural roof deck during removal. Verify capacity of deck to support equipment used in demolition.
4. Line of pipe chase below - remove topping slab and structural deck over pipe chase and cut down chase wall as required to install new pool deck.
5. Line of mechanical room wall below to remain.
6. Remove lifeguard chair and old diving board pads.
7. Remove existing wading pool and deck complete. Take care not to damage footings of existing walls to remain.
8. Chain link fence to be removed.
9. Chain link gates and fence to remain.
10. Existing gates to be removed.
11. Existing vent/access to basement mechanical room to remain.
12. Existing sandtrap to remain - see mechanical drawings for piping removal.
13. Existing gas meter.
14. Existing stair enclosure to be demolished and removed complete.
15. Existing portal to be demolished and removed complete.
16. Remove full height steel window frames.
17. Remove partial height steel window frames.
18. Concrete slab on grade to remain.
19. Wood trellis to remain.
20. Barbecue to remain.
21. Existing 6" CMU wall w/ pilasters to be demolished and removed complete, including footing.
22. Existing 8" wide curb to be removed.

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Site and Pool Demolition Plan

Project No.
Drawn
Checked
Date APR 16 1993
Revisions

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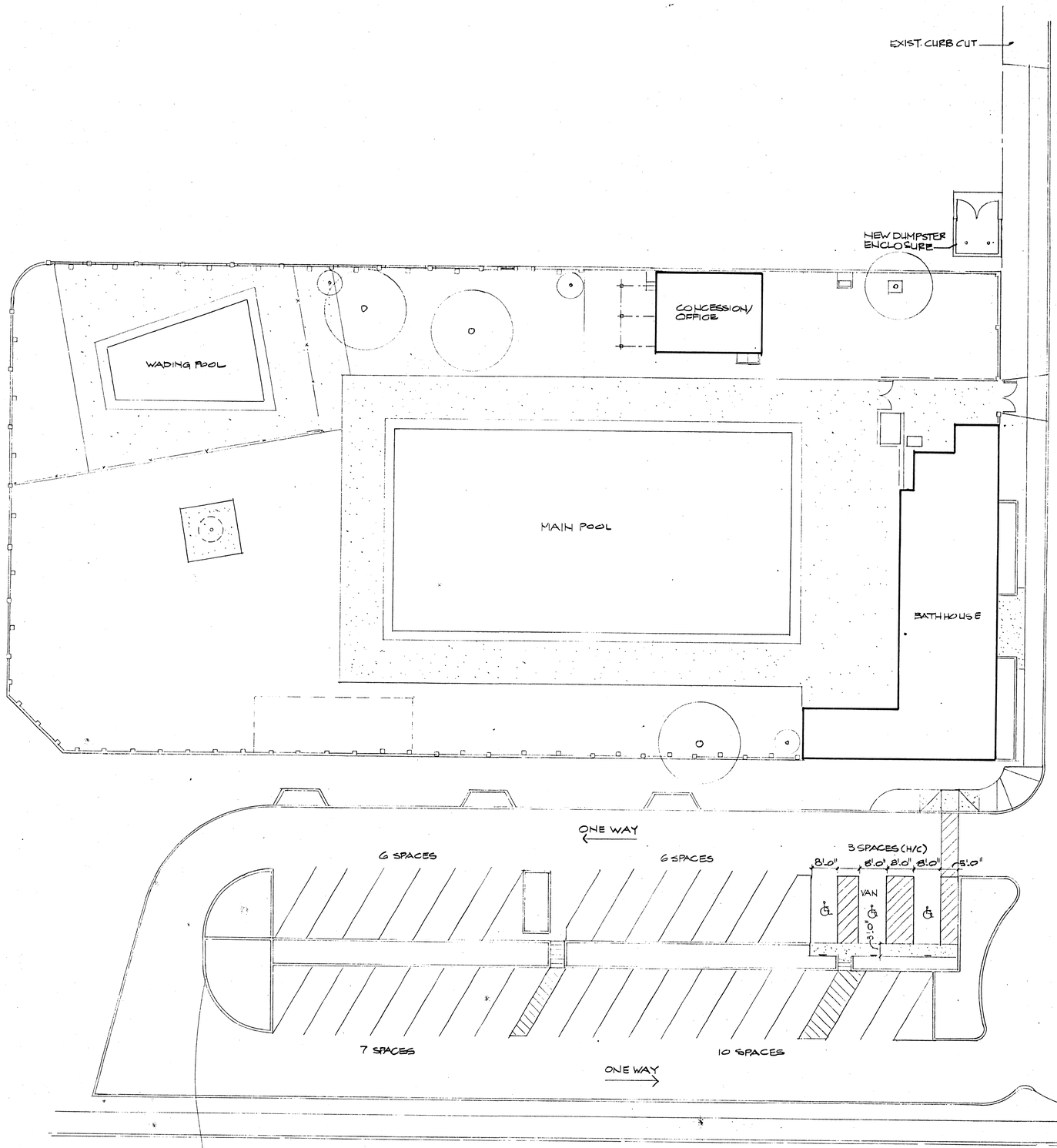
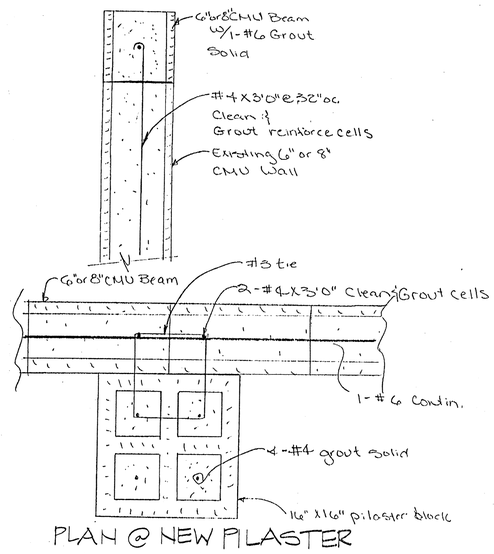
of

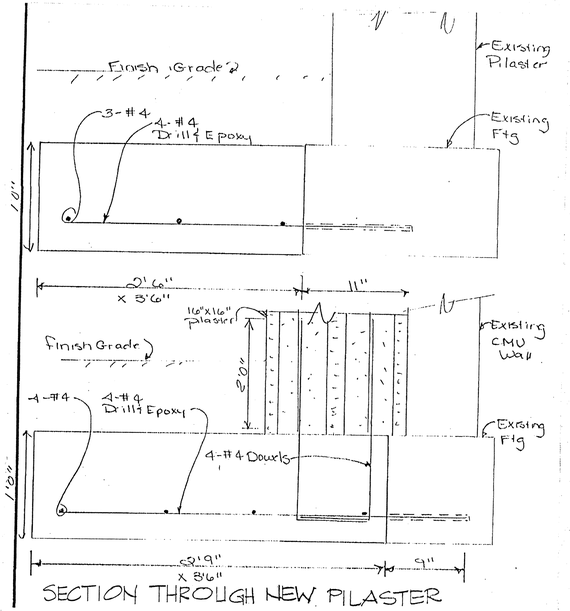


New Site Plan

1/16" = 1'-0"



PLAN @ NEW PILASTER



SECTION THROUGH NEW PILASTER

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Sunport Pool - New Site Plan

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SP SHEET A1

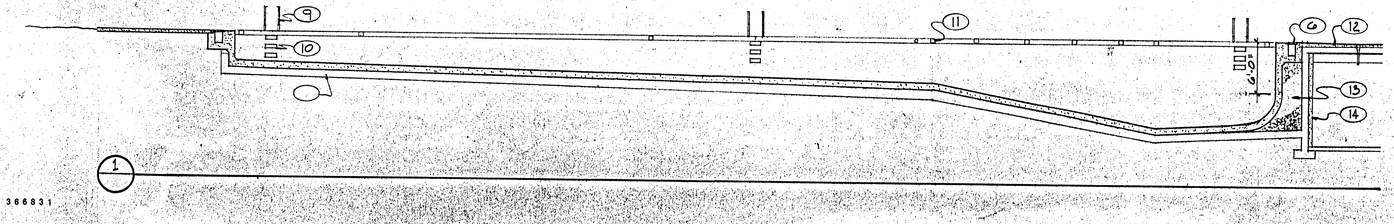
KEYED NOTES

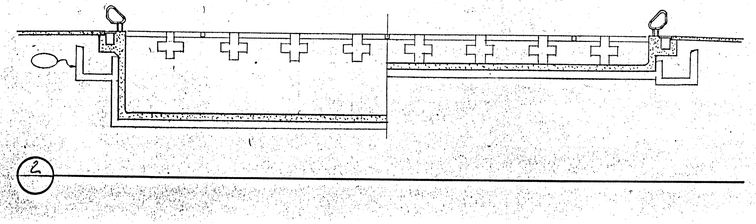
1. New 4" concrete deck slab on grade.
2. New concrete deck topping slab over new liquid waterproofing membrane over existing mechanical room structural slab.
3. New deck drains, typical. See plumbing drawings.
4. Line of existing plumbing chase. Cut down 8" minimum below new deck - backfill with engineered fill after installation of new piping and compact to 90% modified proctor density prior to installation of new slab.
5. New 'Shotcrete' pool shell formed inside existing pool.
6. New deck level gutter with fiberglass grating.
7. Existing concrete deck to remain.
8. Existing chain link fence to remain.
9. New handrail.
10. Recessed steps - see detail.
11. Depth markers on vertical and horizontal faces of deck at each foot of depth.
12. Mechanical room structural deck to remain.
13. Pea gravel fill between new and old pool walls - this end of pool only.
14. New 'Shotcrete' back up wall in mechanical room - see details, sheet SP-A2.
15. Existing pilasters and wall to remain. Reinforce pilasters, enlarge footings and add new bond beam course at all existing pilasters and walls to remain. See details sheet _____.
16. New pilasters.
17. New hydraulic handicap lift.

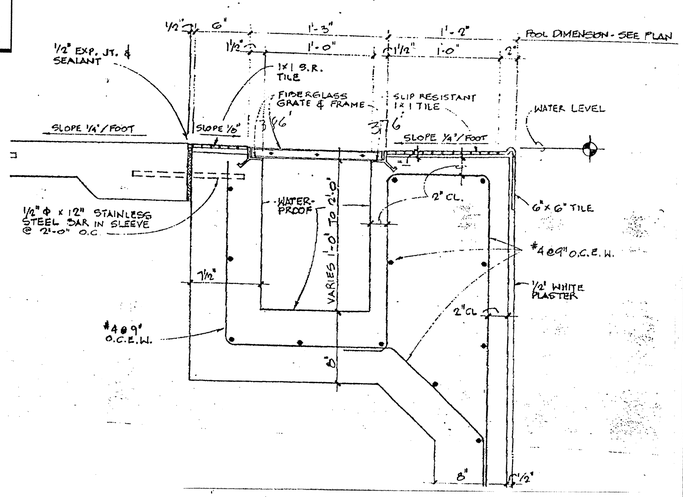
MAIN POOL

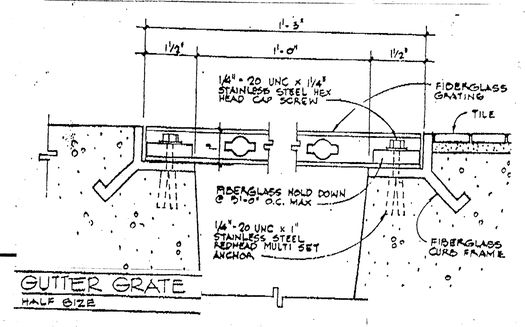
MATCH LINE

Enlarged Main Pool Plan
1/8"=1'-0"









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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Enlarged Main Pool Plan, Pool Sections

Project No. _____
Drawn _____
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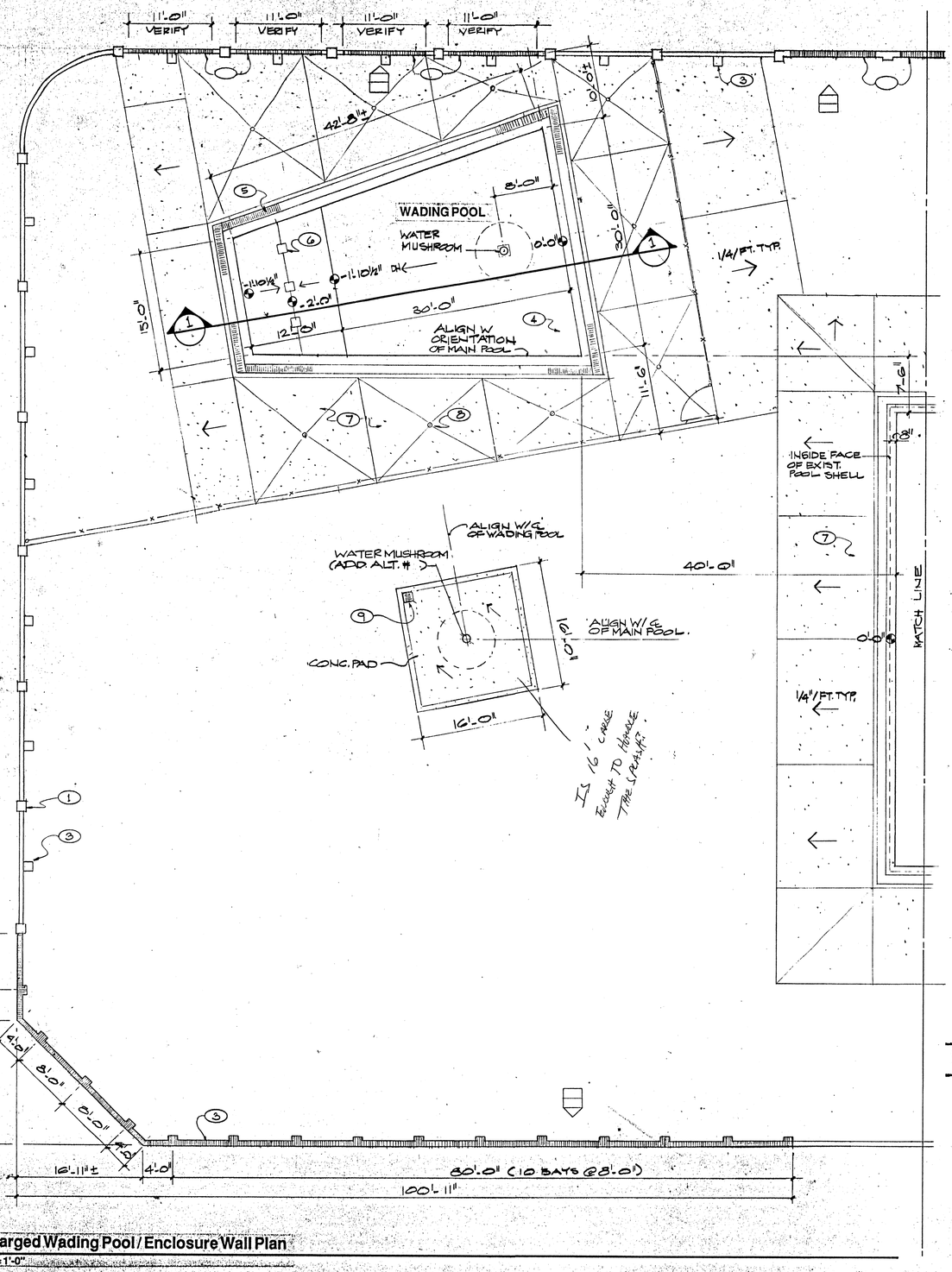
SP-A1

of

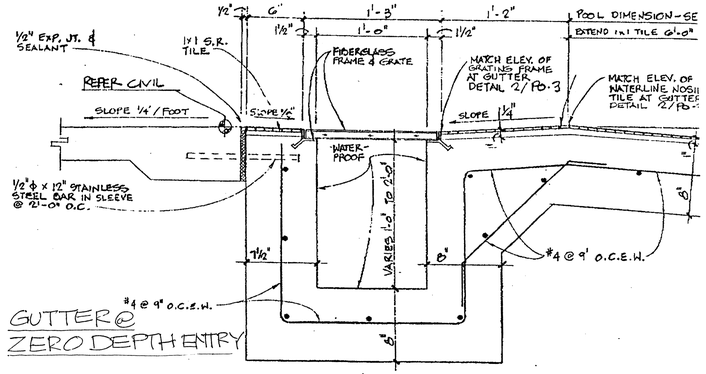
SP SHEET A2

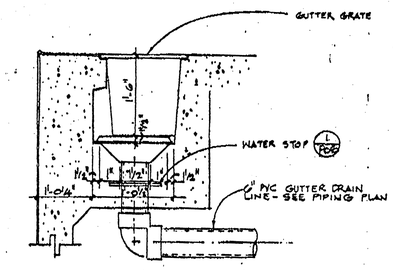
KEYED NOTES

1. Existing pilasters and wall to remain. Reinforce pilasters, enlarge footings and add new bond beam course at all existing pilasters and walls to remain. See details sheet _____.
2. New pilaster.
3. New 8" CMU wall w/ pilasters.
4. New 8" thick 'Shotcrete' wading pool with 'beach' entry.
5. New deck level gutter with fiberglass grating.
6. New main drains for mushroom and pool - see plumbing drawings.
7. New 4" concrete deck on grade.
8. Deck drains - see plumbing drawings.
9. Drain - see plumbing drawings.
10. Water mushroom.

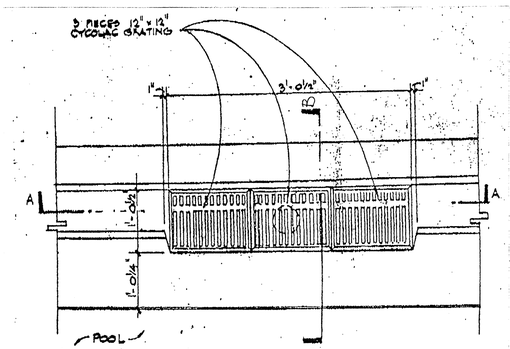


Enlarged Wading Pool / Enclosure Wall Plan
1/8" = 1'-0"

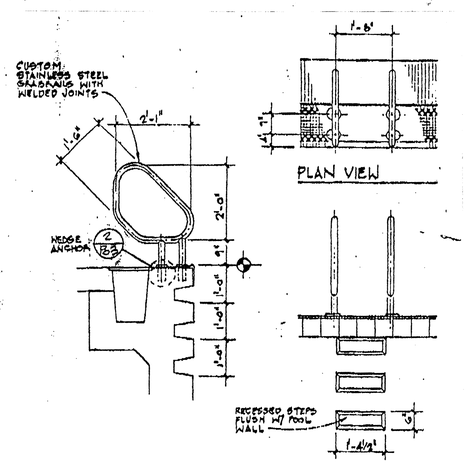




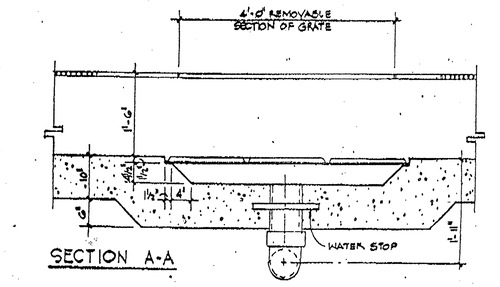
SECTION D-D



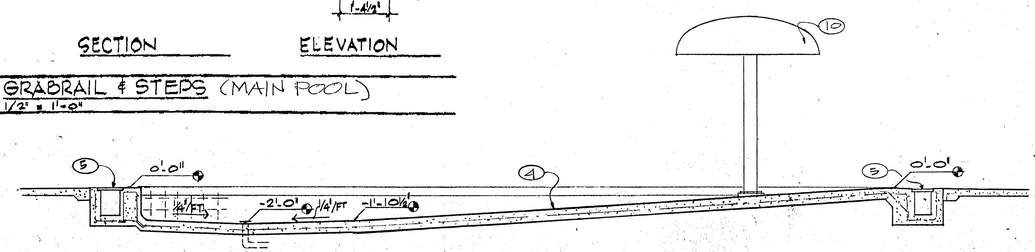
PLAN VIEW - SHOWN WITHOUT DECK SLAB IN PLACE



GRABRAIL & STEPS (MAIN POOL)
1/2" = 1'-0"



SECTION A-A



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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Sunport Pool - Enlarged Wading Pool / Enclosure Wall Plan, Details

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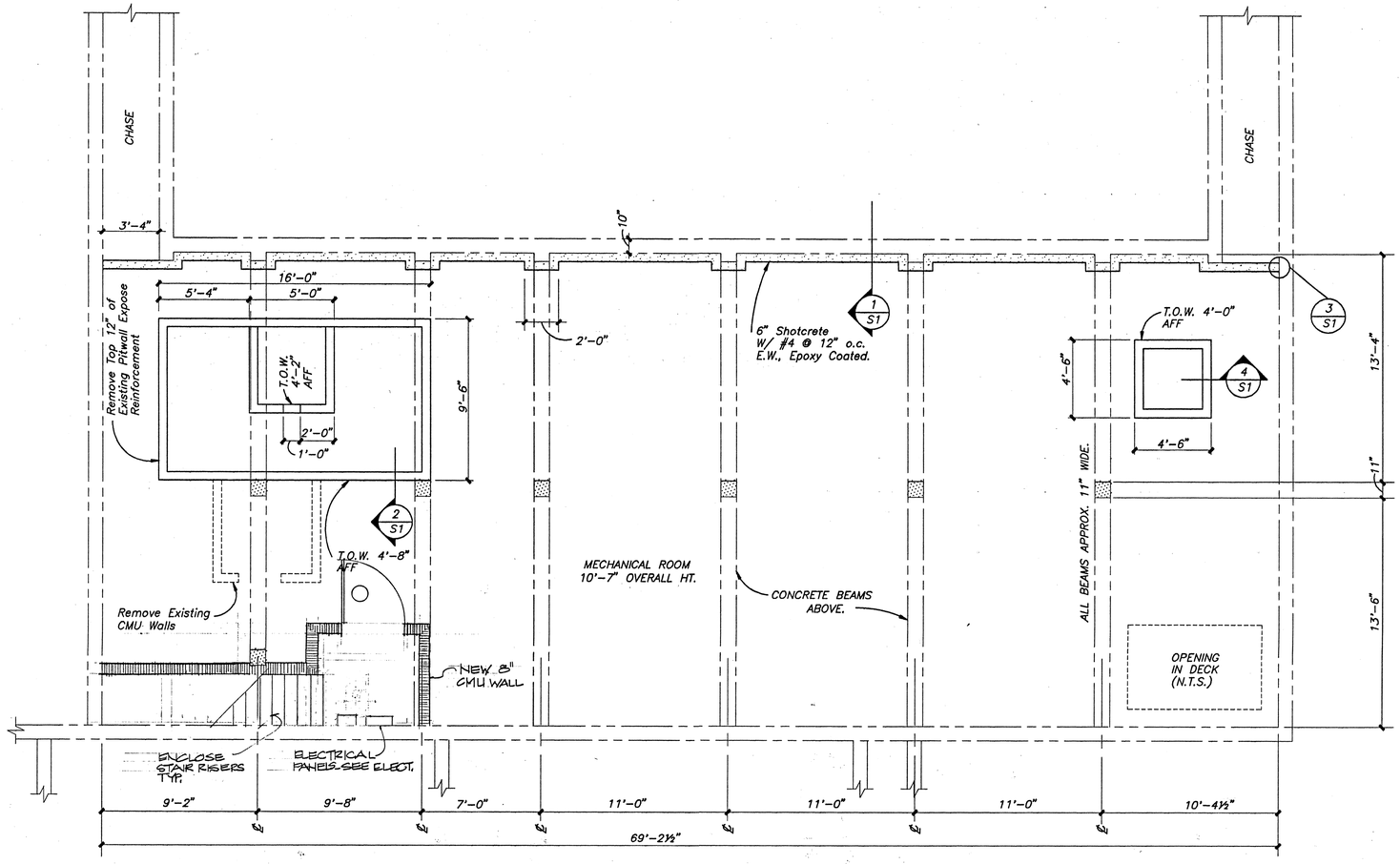
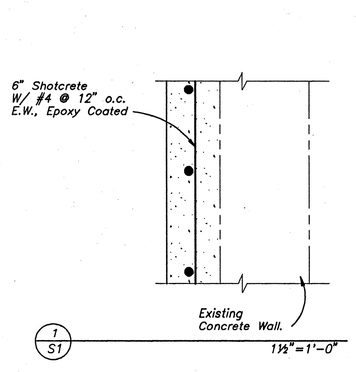


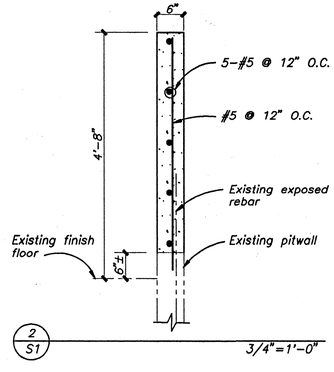
NORTH

MECHANICAL ROOM PLAN

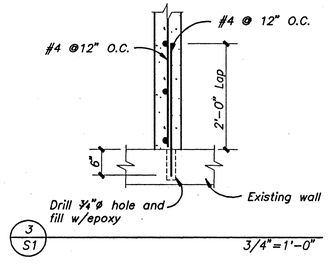
1/4"=1'-0"



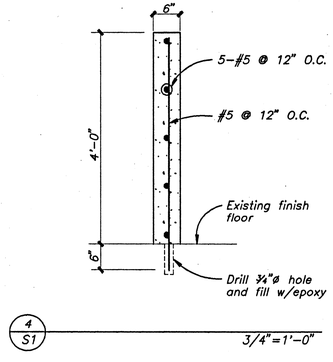
1 S1 — 1½"=1'-0"



2 S1 — 3/4"=1'-0"



3 S1 — 3/4"=1'-0"



4 S1 — 3/4"=1'-0"

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Mechanical Room Floor Plan, Structural Details

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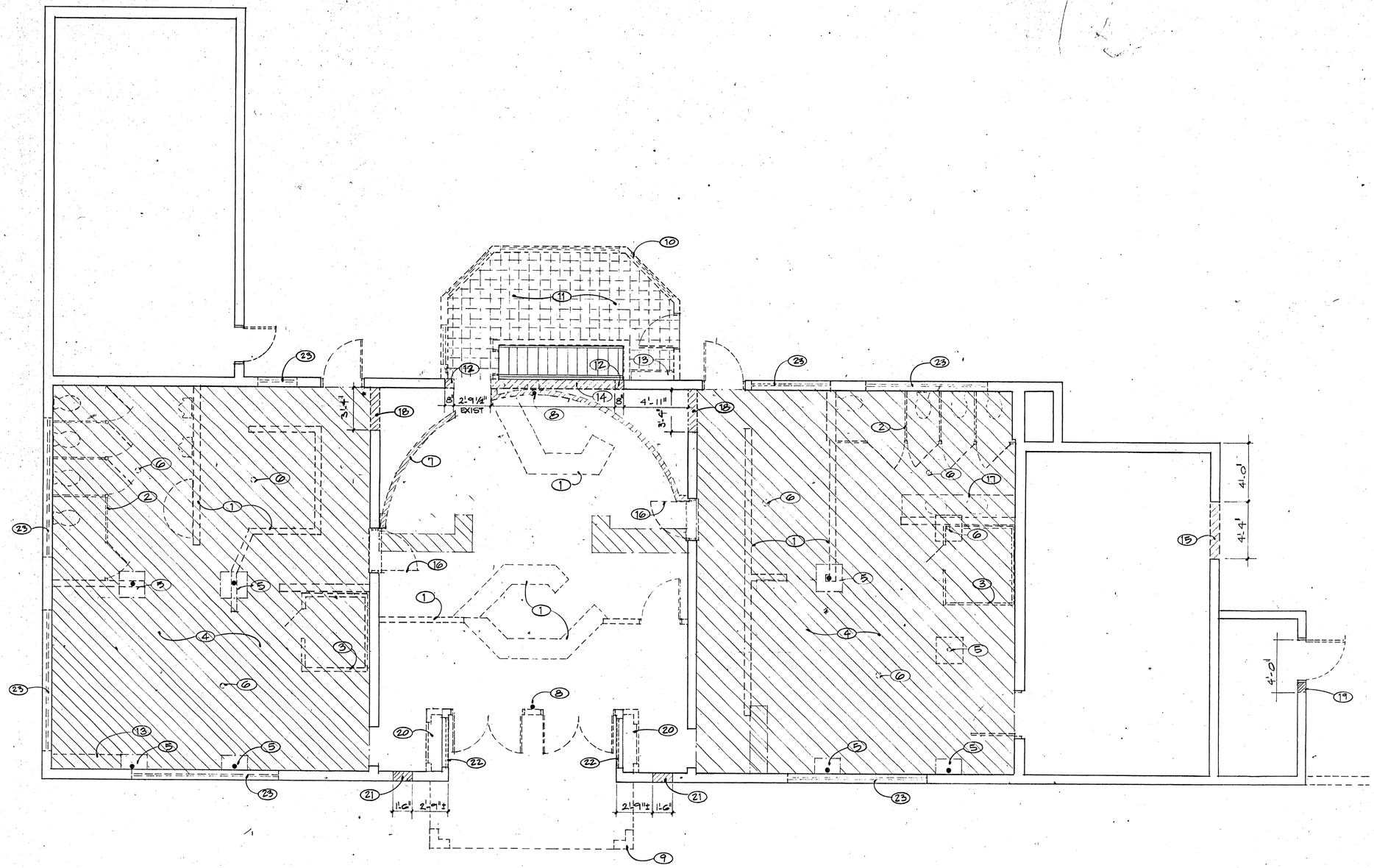
KEYED NOTES

1. Remove frame walls, typical.
2. Remove toilet partitions complete.
3. Remove sauna complete.
4. Remove concrete floor slab this room.
5. Existing pipe column and footing to remain. Grind down footing as required to match new floor levels.
6. Existing pipe column and footing to be removed. Provide temporary support for beam until new support wall is constructed.
7. Concrete brick wall to be removed.
8. Existing pipe column to remain.
9. Remove portal complete.
10. Remove stair enclosure complete.
11. Vinyl asbestos composition tile to be removed in accordance with specifications and applicable laws.
12. Remove this portion of wall from floor to ceiling for new tube column - provide temporary support for overhead construction.
13. Remove electrical panel enclosure.
14. Remove existing masonry wall from 3'-6" above finish floor to ceiling - provide temporary support.
15. Remove wall for new door from floor to lintel over opening previously filled in.
16. Remove half door, frame, counter and panel below.
17. Remove vanity.
18. Remove masonry wall for new door.
19. Widen opening for new door.
20. Remove display alcove.
21. Remove portion of wall where porthole windows were previously filled in.
22. Remove windows.
23. Remove glass from existing windows. Frames to remain.



Demolition Floor Plan
1/14" = 1'-0"

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Sunport Pool - Bathhouse Demolition Plan

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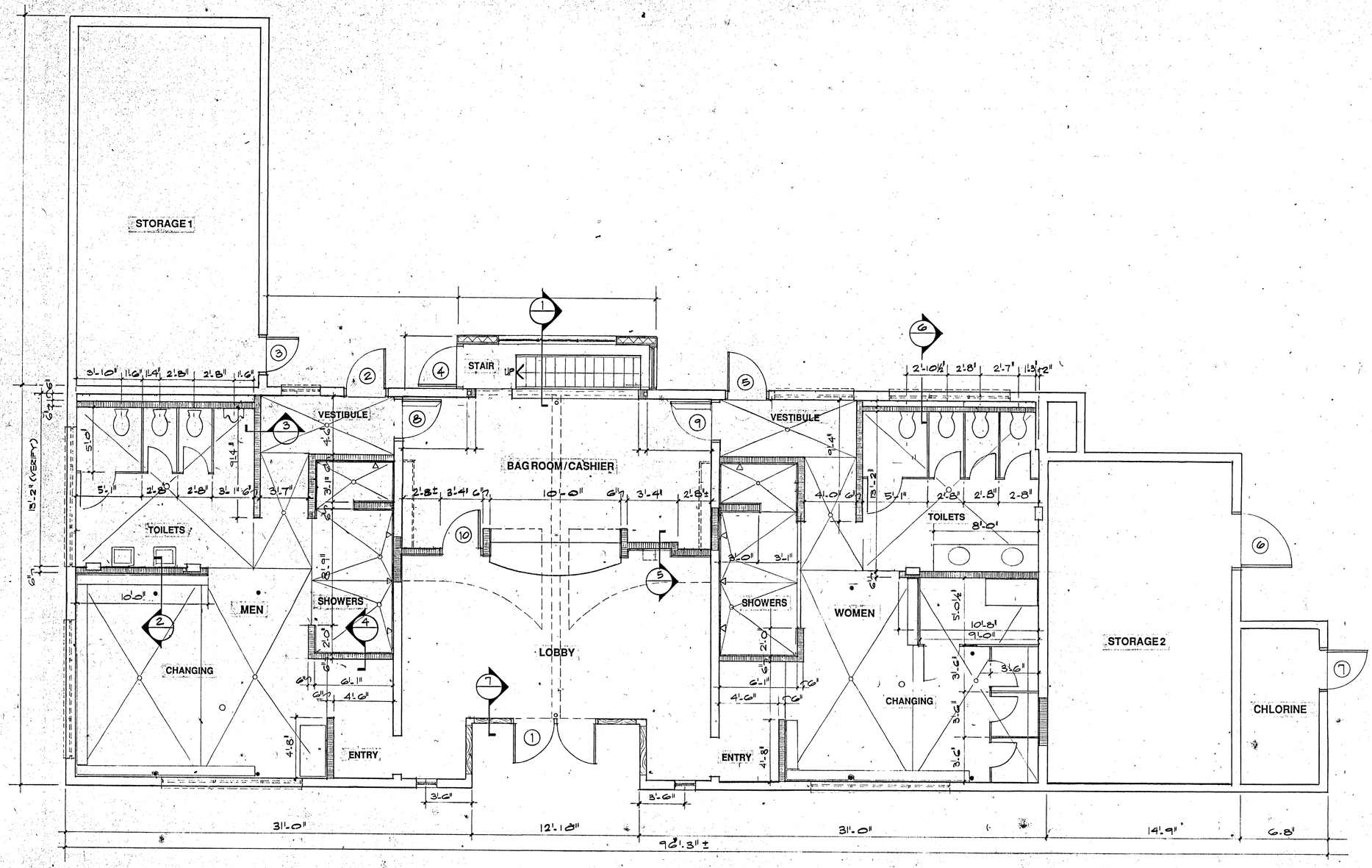

New Floor Plan

1/4" = 1'-0"

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Sunport Pool - New Floor Plan

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DOOR SCHEDULE

DOOR NO.	PAIR	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	FRAME MATERIAL	FRAME TYPE	DETAILS MATERIAL	DETAILS TYPE	DETAILS DEPTH	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS THRESHOLD	FIRE RATING	DOOR SIGN ROOM NUMBER	DOOR SIGN TEXT	HARDWARE	REMARKS
1	●	3'-0"	6'-8"	1¾"	HM	A/A1	HM	A	5¾"									
2		"	"	"	"	B	"	B	"									
3		2'-6"	"	"	"	"	"	C	"									
4		3'-0"	7'-0"	"	"	"	"	B	"									
5		"	"	"	"	"	"	"	"									
6		4'-0"	"	"	"	"	"	"	"									
7		3'-8"	"	"	"	"	"	"	"									
8		3'-0"	"	"	"	C	"	"	"									
9		"	"	"	"	"	"	"	"									
10		"	"	"	"	B	"	"	"									

ROOM FINISH SCHEDULE

NO	NAME	FLOOR: 1 EXIST. TO REMAIN	2 EXIST CONC. SEALED	3 NEW CONC. SEALED	4 RUBBER/EPOXY	BASE: 1 CERAMIC TILE	2 RUBBER/EPOXY	3 VINYL	4 NONE	5 EXIST. TO REMAIN	WALLS: 1 EXIST. TO REMAIN	2 CMU - LATEX PAINT	3 CMU - EPOXY PAINT	4 EXIST. PLASTER - LATEX	5 EXIST. PLASTER - EPOXY	6 CERAMIC TILE	7 NEW PLASTER - LATEX	8 NEW GYP. BD. PAINTED	CEILING: 1 EXIST. TO REMAIN	2 EXIST. PLASTER - EPOXY	3 EXIST. PLASTER - LATEX	4 GYP. BD - LATEX	5 EXIST. GYP BD - LATEX	CEILING HEIGHT	REMARKS
	LOBBY		2					3				2		4				7			3	4				
	BAG ROOM / CASHIER		2					3													3					
	STAIR							3			1	2		4				8				4				NO PAINT @ MECH. LEVEL
	MEN																									
	TOILETS			4		2							3		5					2						
	CHANGING			4		2							3		5					2						
	SHOWERS			4		2										6				2						
	ENTRY			4		2							3		5					2						
	VESTIBULE			4		2							3		5					2						
	WOMEN																									
	TOILETS			4		2							3		5					2						
	CHANGING			4		2							3		5					2						
	SHOWERS			4		2										6				2						
	ENTRY			4		2							3		5					2						
	VESTIBULE			4		2							3		5					2						
	STORAGE 1	1								5					5									5		
	STORAGE 2	1								5					5									5		
	CHLORINE	1								5	1								1							

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Sunport Pool - Schedules and Details

Project No.
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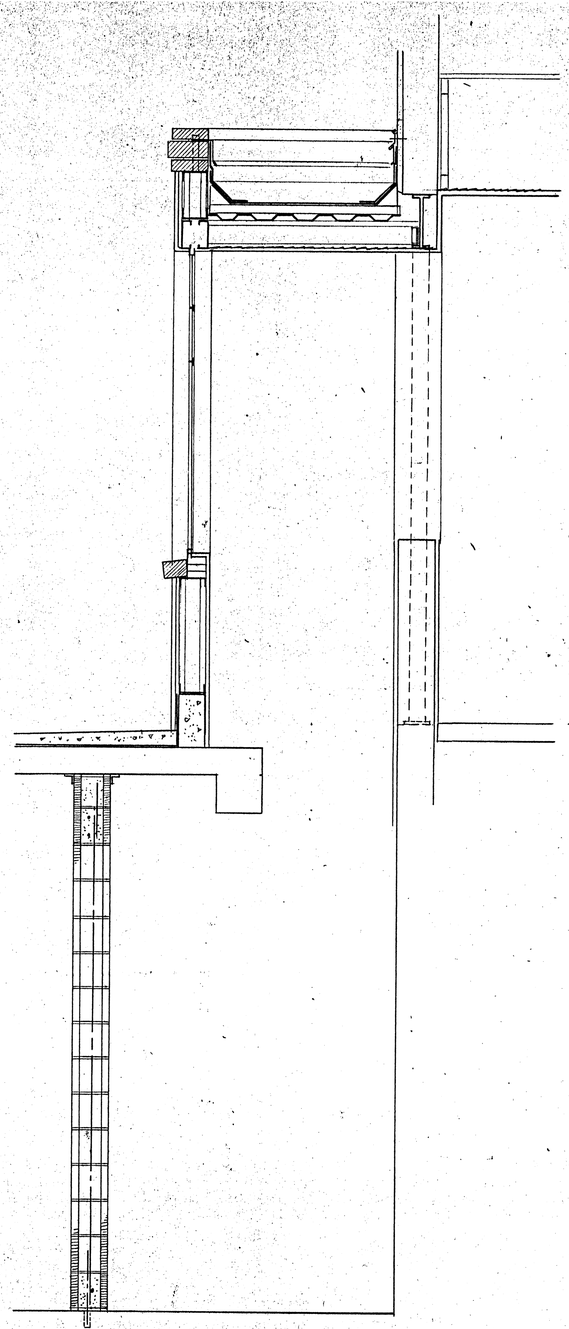

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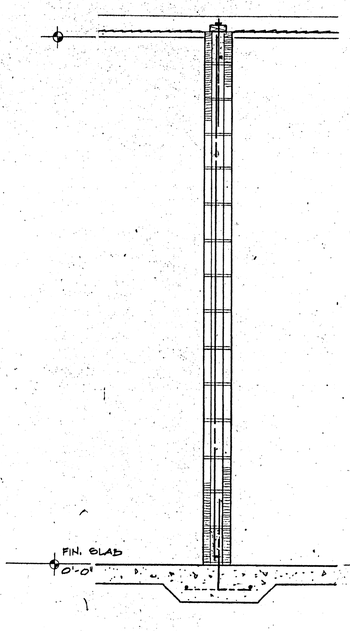

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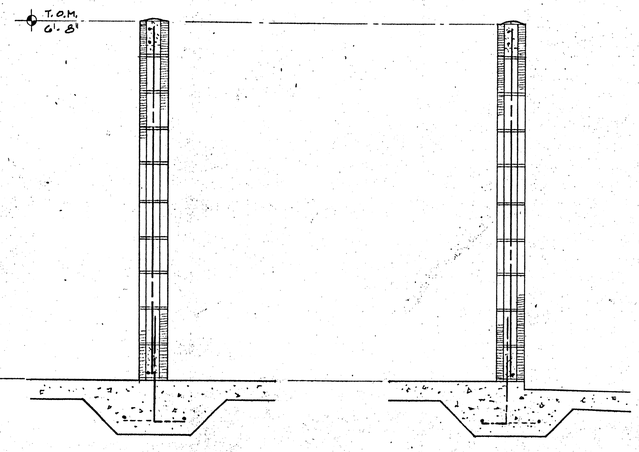

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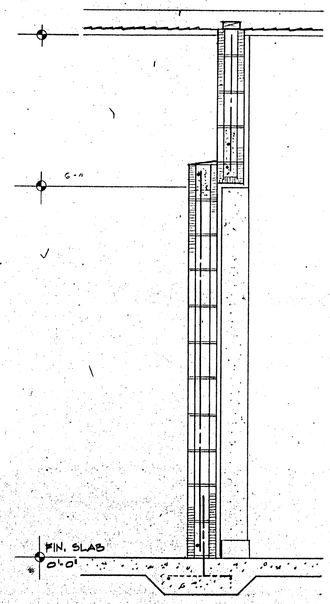

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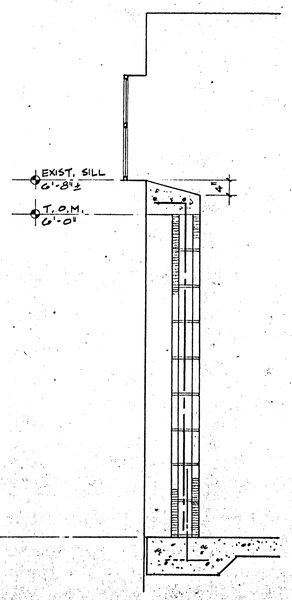

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Wall Sections

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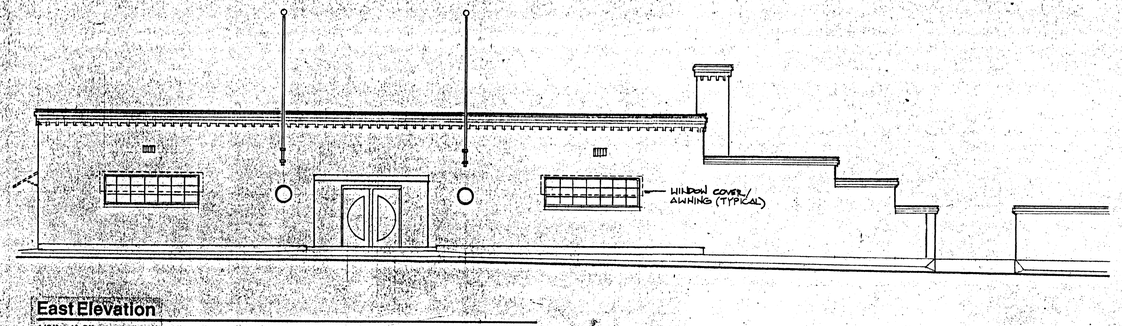
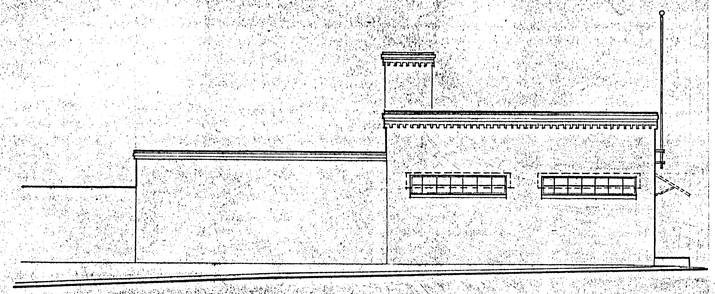
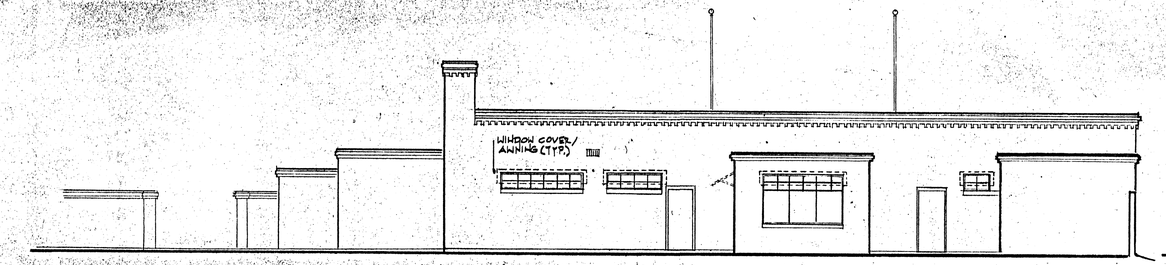


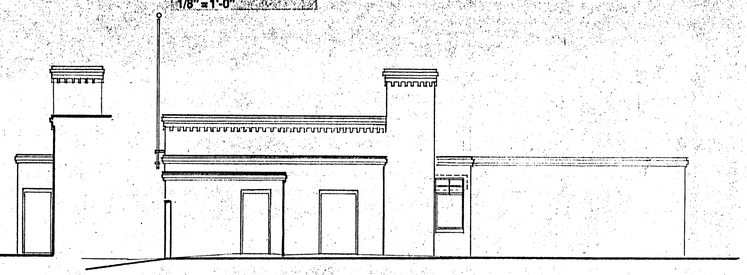
East Elevation
1/8" = 1'-0"



South Elevation
1/8" = 1'-0"



West Elevation
1/8" = 1'-0"

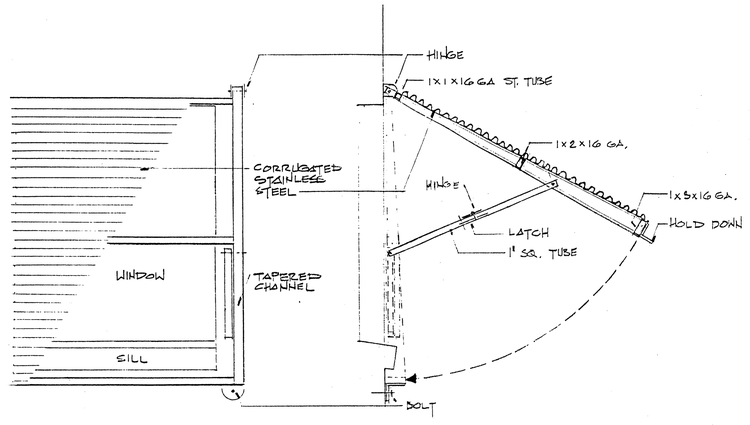


North Elevation
1/8" = 1'-0"

SP SHEET A9 Elevations

KEYED NOTES

1. Waterblast paint off stucco - patch cracks and voids and install new color coat over bonding agent at all exterior walls.
2. New flag poles.
3. Reglaze existing windows w/ laminated glass.
4. Clean loose paint off parapet coping. Replace damaged or missing bricks and repoint where required. Repaint entire coping.
5. New windows.



WINDOW COVER - AWNING
1" = 1'-0"

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Sunport Pool - Exterior Elevations

Project No.
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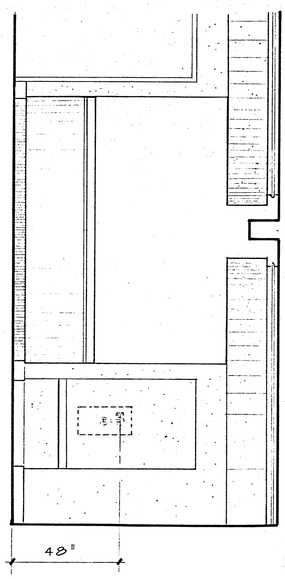

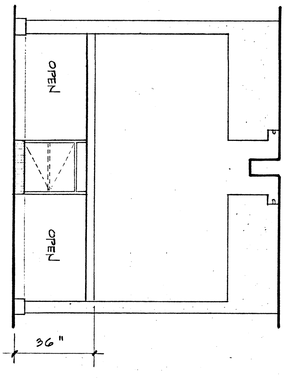

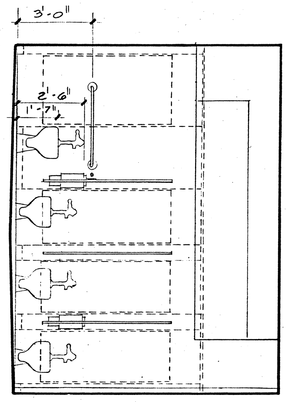

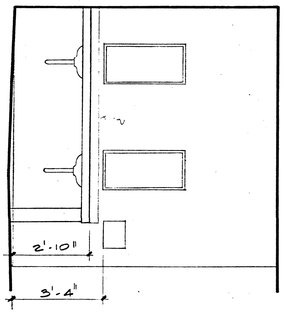

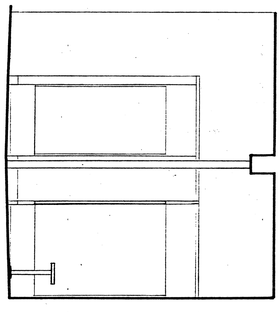

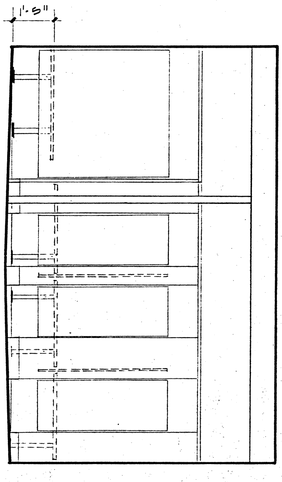

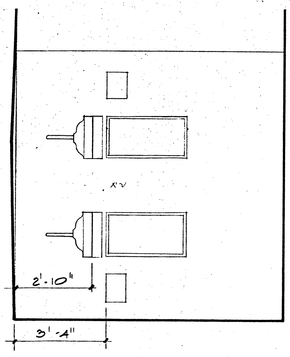

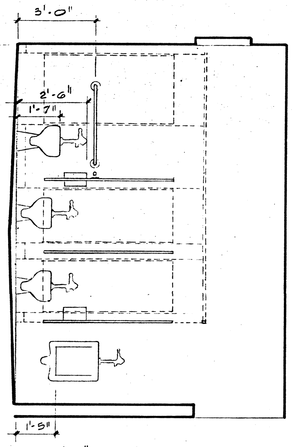

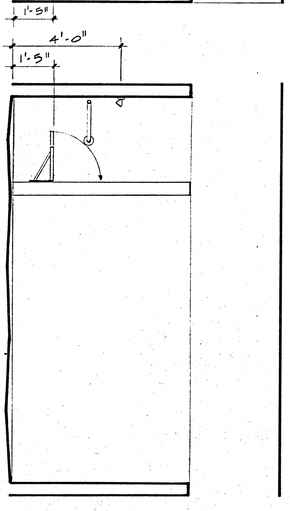

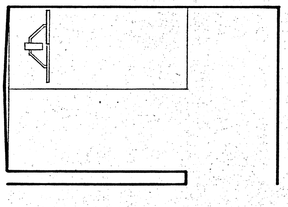

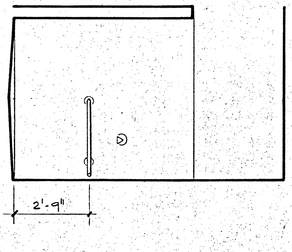

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of

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Revisions

Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department

Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Interior Elevations

Kells and Craig
Architects, Inc. AIA
P.O. Box 27324 Albuquerque, New Mexico 87125 (505) 243-ARCH

KEYED NOTES -- DOMESTIC PLUMBING PLANS 92-27A.SUN

1 SWIMMING POOL HEATER SPH-1, 1,467 MBH, furnished by Pool Subcontractor. Mechanical Subcontractor shall furnish and install natural gas piping, complete, and furnish and install flue, complete; furnish combustion gas analysis and certification. Extend 1 1/2" natural gas line to Pool Heater; reduce to 1 1/4"; install dirt leg with removable cap, gas cock, union, and connect to Pool Heater as required by manufacturer of Heater. See Swimming Pool Equipment Plan and Electrical Plans, also.

2 WADING POOL HEATER WPH-1, 511 MBH, furnished by Pool Subcontractor. Mechanical Subcontractor shall furnish and install natural gas piping, complete, and furnish and install flue, complete; furnish combustion gas analysis and certification. Extend 1 1/4" natural gas line to Pool Heater; reduce to 1"; install dirt leg with removable cap, gas cock, union, and connect to Pool Heater as required by manufacturer of Heater. See Swimming Pool Equipment Plan and Electrical Plans, also.

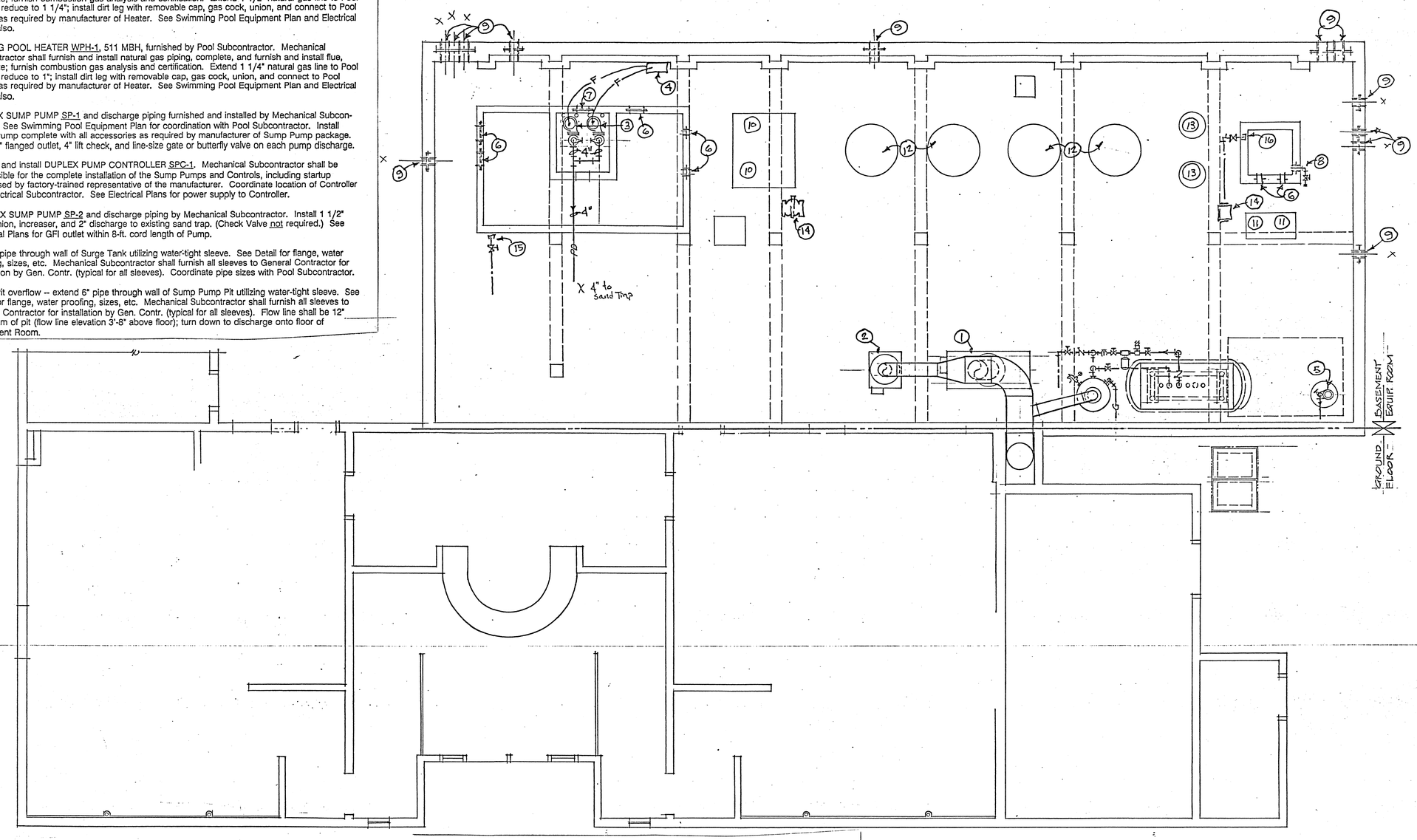
3 DUPLEX SUMP PUMP SP-1 and discharge piping furnished and installed by Mechanical Subcontractor. See Swimming Pool Equipment Plan for coordination with Pool Subcontractor. Install Sump Pump complete with all accessories as required by manufacturer of Sump Pump package. Install 4" flanged outlet, 4" lift check, and line-size gate or butterfly valve on each pump discharge.

4 Furnish and install DUPLEX PUMP CONTROLLER SPC-1. Mechanical Subcontractor shall be responsible for the complete installation of the Sump Pumps and Controls, including startup supervised by factory-trained representative of the manufacturer. Coordinate location of Controller with Electrical Subcontractor. See Electrical Plans for power supply to Controller.

5 SIMPLEX SUMP PUMP SP-2 and discharge piping by Mechanical Subcontractor. Install 1 1/2" gate, union, increaser, and 2" discharge to existing sand trap. (Check Valve not required.) See Electrical Plans for GFI outlet within 8-ft. cord length of Pump.

6 Extend pipe through wall of Surge Tank utilizing water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves). Coordinate pipe sizes with Pool Subcontractor.

7 Sump Pit overflow -- extend 6" pipe through wall of Sump Pump Pit utilizing water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves). Flow line shall be 12" below rim of pit (flow line elevation 3'-8" above floor); turn down to discharge onto floor of Equipment Room.



DOMESTIC PLUMBING PLANS
SCALE: 1/4" = 1'-0"
NOTE: INCLUDES BSMT. AND GROUND FLR.

NORTH

8 Drain valve -- extend 1 1/2" pipe through wall at bottom of Surge Tank utilizing water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves). Install 1 1/2" gate valve and short nipple to drain tank for winter.

9 Pool Subcontractor shall extend pipe through wall of Equipment Room, height as directed by Pool Subcontractor to accomplish slopes of lines specified. Mechanical Subcontractor shall furnish water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves). Coordinate pipe sizes with Pool Subcontractor and comply with his pipe size requirements.

10 SWIMMING POOL PUMP by Pool Subcontractor.

11 WADING POOL PUMP by Pool Subcontractor.

12 Dual SWIMMING POOL FILTERS by Pool Subcontractor.

13 Single WADING POOL FILTER by Pool Subcontractor.

14 HAIR AND LINT STRAINER by Pool Subcontractor.

15 Extend 2" cold water line to this vicinity (near ceiling) and install 2" valve, short nipple, and cap for extension from this point to LEVEL CONTROL assembly being furnished and installed by Pool Subcontractor.

16 Extend 1 1/4" cold water line to this vicinity (near ceiling) and install 2" valve, short nipple, and cap for extension from this point to LEVEL CONTROL assembly being furnished and installed by Pool Subcontractor.

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Sunport Pool - Domestic Plumbing Plans

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Revisions

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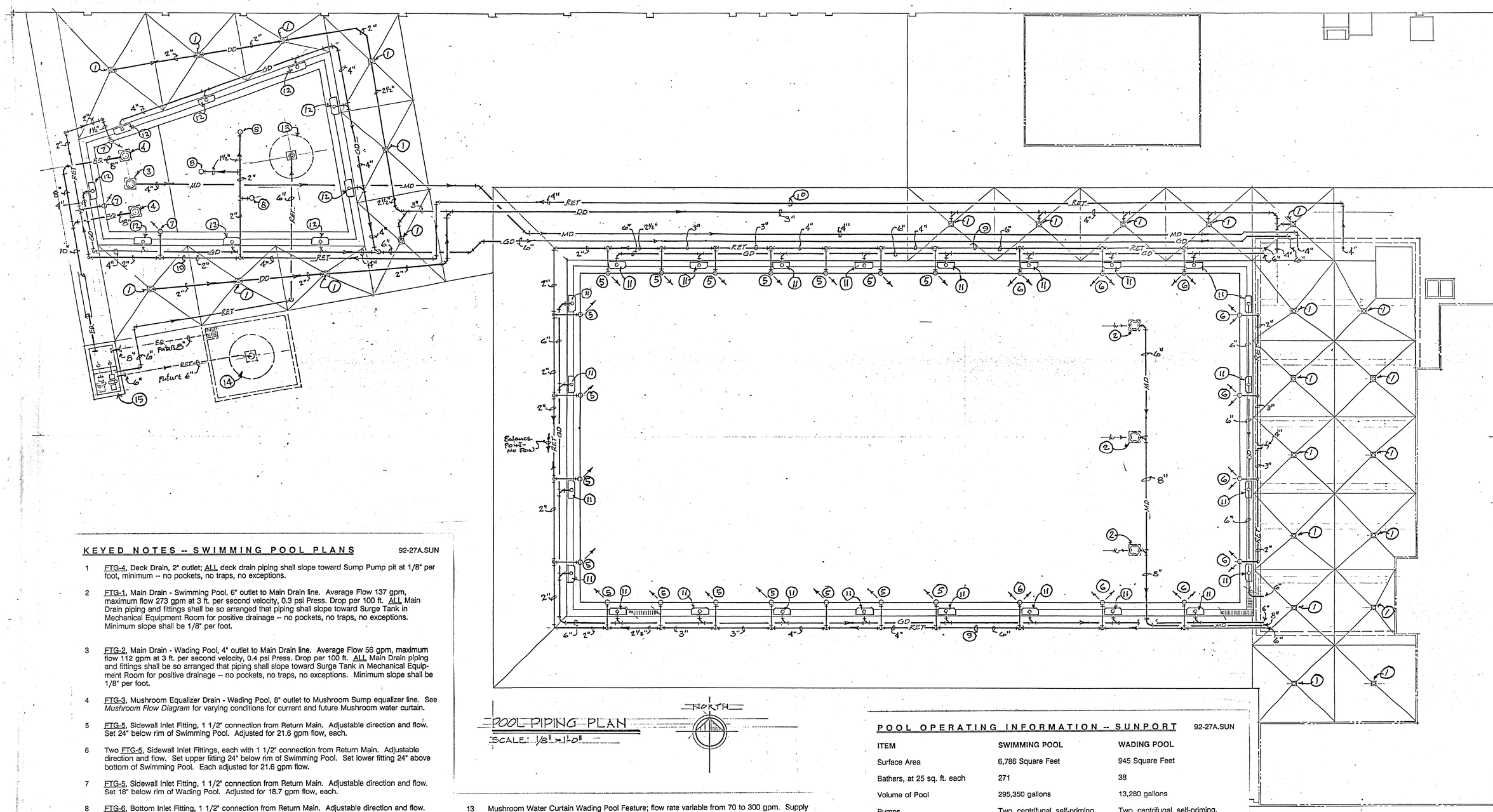
of



POOL PIPING PLAN

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

NORTH

KEYED NOTES -- SWIMMING POOL PLANS

92-27A.SUN

1 FTG-4, Deck Drain, 2" outlet; ALL deck drain piping shall slope toward Sump Pump pit at 1/8" per foot, minimum -- no pockets, no traps, no exceptions.

2 FTG-1, Main Drain - Swimming Pool, 6" outlet to Main Drain line. Average Flow 137 gpm, maximum flow 273 gpm at 3 ft. per second velocity, 0.3 psi Press. Drop per 100 ft. ALL Main Drain piping and fittings shall be so arranged that piping shall slope toward Surge Tank in Mechanical Equipment Room for positive drainage -- no pockets, no traps, no exceptions. Minimum slope shall be 1/8" per foot.

3 FTG-2, Main Drain - Wading Pool, 4" outlet to Main Drain line. Average Flow 56 gpm, maximum flow 112 gpm at 3 ft. per second velocity, 0.4 psi Press. Drop per 100 ft. ALL Main Drain piping and fittings shall be so arranged that piping shall slope toward Surge Tank in Mechanical Equipment Room for positive drainage -- no pockets, no traps, no exceptions. Minimum slope shall be 1/8" per foot.

4 FTG-3, Mushroom Equalizer Drain - Wading Pool, 8" outlet to Mushroom Sump equalizer line. See *Mushroom Flow Diagram* for varying conditions for current and future Mushroom water curtain.

5 FTG-5, Sidewall Inlet Fitting, 1 1/2" connection from Return Main. Adjustable direction and flow. Set 24" below rim of Swimming Pool. Adjusted for 21.6 gpm flow, each.

6 Two FTG-5, Sidewall Inlet Fittings, each with 1 1/2" connection from Return Main. Adjustable direction and flow. Set upper fitting 24" below rim of Swimming Pool. Set lower fitting 24" above bottom of Swimming Pool. Each adjusted for 21.6 gpm flow.

7 FTG-5, Sidewall Inlet Fitting, 1 1/2" connection from Return Main. Adjustable direction and flow. Set 18" below rim of Wading Pool. Adjusted for 18.7 gpm flow, each.

8 FTG-6, Bottom Inlet Fitting, 1 1/2" connection from Return Main. Adjustable direction and flow. Set on bottom of Wading Pool. Adjusted for 18.7 gpm flow, each.

9 Return Main piping from FC-1, Flow Control Fitting, downstream from filters. ALL Return line piping and fittings shall be so arranged that piping shall slope toward drain point in Mechanical Equipment Room for winterizing -- no pockets, no traps, no exceptions. Minimum slope shall be 1/8" per foot.

10 Return Main piping from FC-2, Flow Control Fitting, downstream from filters. ALL Return line piping and fittings shall be so arranged that piping shall slope toward drain point in Mechanical Equipment Room for winterizing -- no pockets, no traps, no exceptions. Minimum slope shall be 1/8" per foot.

11 FTG-7, Gutter Drain assembly at approximately 15 ft. o.c. around gutter. Average flow from each drain approximately 34.2 gpm, maximum possible, during surge conditions. 6" grated outlet to Gutter Drain line. ALL Gutter Drain piping and fittings shall be so arranged that piping shall slope toward Surge Tank in Mechanical Equipment Room for positive drainage -- no pockets, no traps, no exceptions. Minimum slope shall be 1/8" per foot.

12 FTG-7, Gutter Drain assembly at approximately 15 ft. o.c. around gutter. Average flow from each drain approximately 12.5 gpm, maximum possible, during surge conditions. 4" grated outlet to Gutter Drain line. ALL Gutter Drain piping and fittings shall be so arranged that piping shall slope toward Surge Tank in Mechanical Equipment Room for positive drainage -- no pockets, no traps, no exceptions. Minimum slope shall be 1/8" per foot.

13 Mushroom Water Curtain Wading Pool Feature; flow rate variable from 70 to 300 gpm. Supply (Return) line size 6"; 300 gpm at 3.5 ft. per sec. velocity, 0.35 psi per 100 ft. pressure drop. See Mushroom Flow Diagram for varying conditions for current and future Mushroom water curtain.

14 Future Mushroom Water Curtain Feature; flow rate variable from 70 to 300 gpm. Future supply (Return) line size 6"; 300 gpm at 3.5 ft. per sec. velocity, 0.35 psi per 100 ft. pressure drop. See *Mushroom Flow Diagram* for varying conditions for current and future Mushroom water curtain.

15 Mushroom Equalizer Sump and Pump enclosure. See Architectural drawings for exact location, and refer to *Mushroom Flow Diagram* for pump, future pump, dimensions, capacities, flow rates, piping, fittings, controls, and sequence of operation.

POOL OPERATING INFORMATION -- SUNPORT

92-27A.SUN

ITEM	SWIMMING POOL	WADING POOL
Surface Area	6,786 Square Feet	945 Square Feet
Bathers, at 25 sq. ft. each	271	38
Volume of Pool	295,350 gallons	13,280 gallons
Pumps	Two, centrifugal, self-priming, each 450 gpm capacity vs. 80 ft. Total Dynamic Head, 20 HP, 3ϕ	Two, centrifugal, self-priming, each 56 gpm capacity vs. 80 ft. Total Dynamic Head, 1.5 HP, 3ϕ
Filters	Two pairs, High Rate Sand, each pair capable of filtering 450 gpm at 17.9 gpm per square foot of filter media	Two, High Rate Sand, each pair capable of 56 gpm at 18.06 gpm per square foot of filter media
Flow Rate	820 gallons per minute (6-hr. turnover)	112 gallons per minute (2-hr. turnover)
Pool Heater	Gas fired; 1,467,000 Btuh Sea Level input orificed for 5,300 ft. elevation	Gas fired; 511,500 Btuh Sea Level input orificed for 5,300 ft. elevation
Flow Control	Griswold Flow Control, 8", flanged, factory set to deliver 820 gpm between 16 and 36 psi	Griswold Flow Control, 4", flanged, factory set to deliver 112 gpm between 16 and 36 psi
Chlorination System	(discuss w/ Chuck S.)	(discuss)
pH Control	(discuss -- CO_2? Slurry?	(discuss)

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Pool Piping Plans and Notes

Project No.
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Revisions

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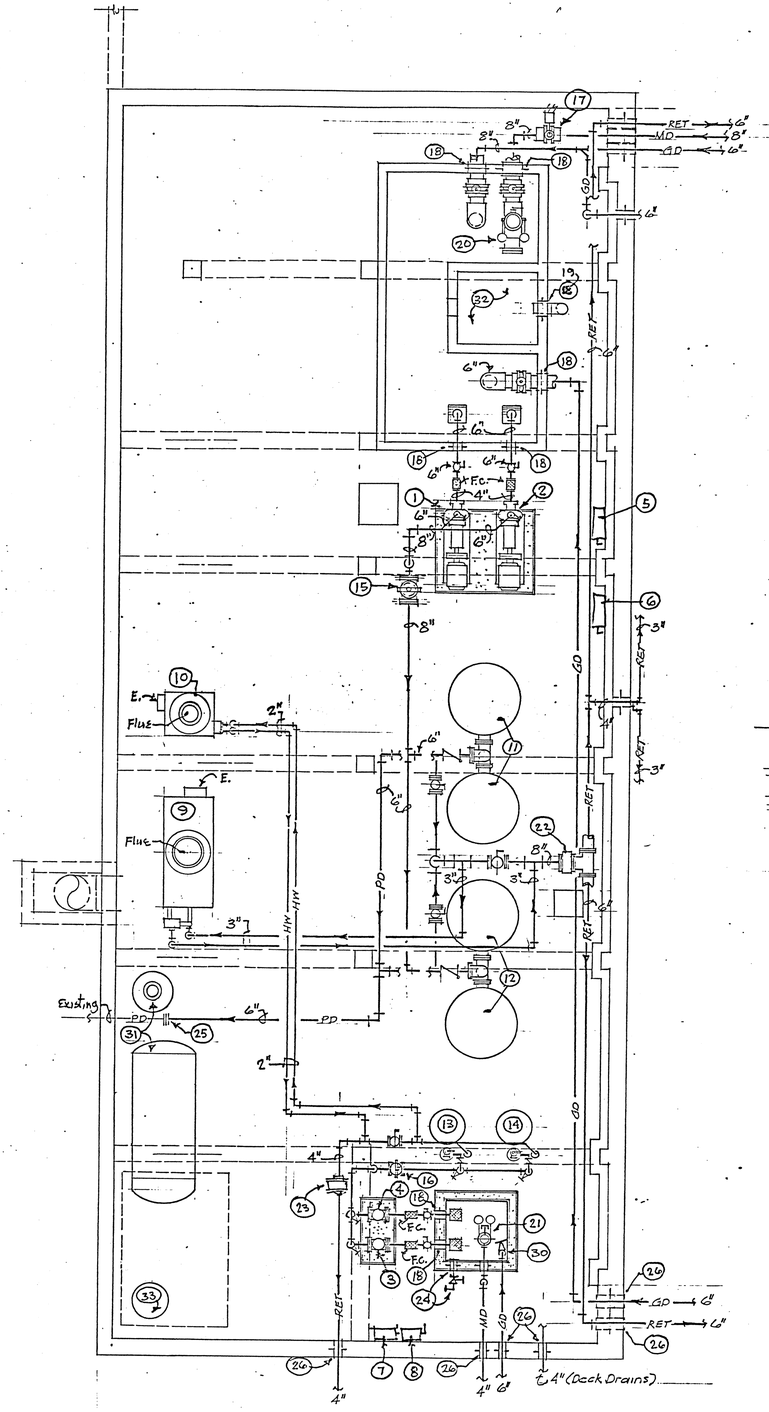
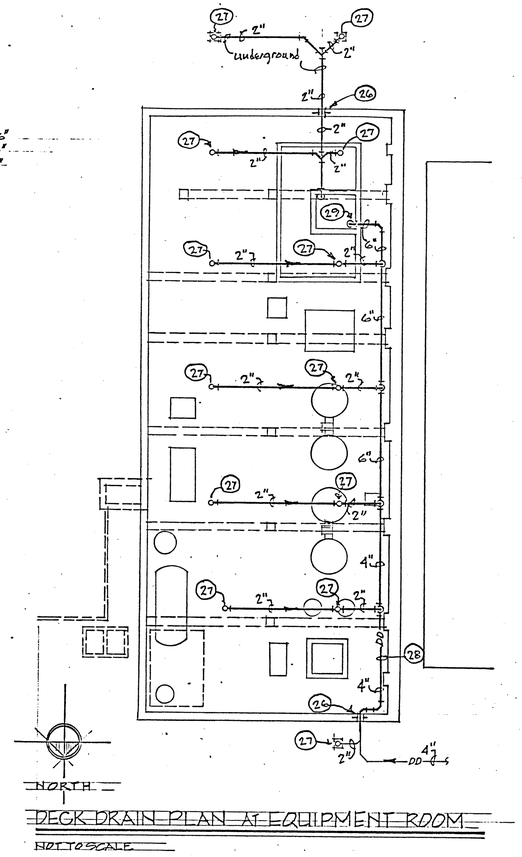


SWIMMING POOL EQUIPMENT PLAN

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

NORTH



NORTH

DECK DRAIN PLAN AT EQUIPMENT ROOM

NOT TO SCALE

KEYED NOTES -- SWIMMING POOL EQPT. PLANS 92-27A.SUN

1 Locate SWIMMING POOL PUMP SPP-1 in this vicinity. Construct concrete pad 4" thick, reinf. with 6 x 6 #10/10 WWF, with 1/2" chamfered edges, on 1/2" cork pad or equivalent to raise pump frame off Equipment Room floor.

2 Locate SWIMMING POOL PUMP SPP-2 in this vicinity. Construct concrete pad 4" thick, reinf. with 6 x 6 #10/10 WWF, with 1/2" chamfered edges, on 1/2" cork pad or equivalent to raise pump frame off Equipment Room floor.

3 Locate WADING POOL PUMP WPP-1 in this vicinity. Construct concrete pad 4" thick, reinf. with 6 x 6 #10/10 WWF, with 1/2" chamfered edges, on 1/2" cork pad or equivalent to raise pump frame off Equipment Room floor.

4 Locate WADING POOL PUMP WPP-2 in this vicinity. Construct concrete pad 4" thick, reinf. with 6 x 6 #10/10 WWF, with 1/2" chamfered edges, on 1/2" cork pad or equivalent to raise pump frame off Equipment Room floor.

5 Pump Controls furnished by Pool Subcontractor with SPP-1; installed by Electrical Subcontractor. See Electrical drawings for exact location.

6 Pump Controls furnished by Pool Subcontractor with SPP-2; installed by Electrical Subcontractor. See Electrical drawings for exact location.

7 Pump Controls furnished by Pool Subcontractor with WPP-1; installed by Electrical Subcontractor. See Electrical drawings for exact location.

8 Pump Controls furnished by Pool Subcontractor with WPP-2; installed by Electrical Subcontractor. See Electrical drawings for exact location.

9 SWIMMING POOL HEATER SPH-1, furnished by Pool Subcontractor. Pool Subcontractor: furnish and install all water piping and valving, startup, set flow and temperature. Mechanical Subcontractor: furnish and install natural gas piping, complete, and furnish and install flue, complete; furnish combustion gas analysis and certification. Electrical Subcontractor: furnish and install electrical supply and wiring, complete. (115v/24v transformer furnished with SPH-1). See Mechanical Plans and Electrical Plans, also.

10 WADING POOL HEATER WPH-1, furnished by Pool Subcontractor. Pool Subcontractor: furnish and install all water piping and valving, startup, set flow and temperature. Mechanical Subcontractor: furnish and install natural gas piping, complete, and furnish and install flue, complete; furnish combustion gas analysis and certification. Electrical Subcontractor: furnish and install electrical supply and wiring, complete. (115v/24v transformer furnished with SPH-1). See Mechanical Plans and Electrical Plans, also.

11 Furnish and install dual SWIMMING POOL FILTERS SPF-1 in this location, complete with accessories, as recommended by manufacturer.

12 Furnish and install dual SWIMMING POOL FILTERS SPF-2 in this location, complete with accessories, as recommended by manufacturer.

13 Furnish and install single WADING POOL FILTER WPF-1 in this location, complete with accessories, as recommended by manufacturer.

14 Furnish and install single WADING POOL FILTER WPF-2 in this location, complete with accessories, as recommended by manufacturer.

15 Furnish and install HAIR AND LINT STRAINER STR-1 in this vicinity. Support with pipe stands under flanges at each side of strainer, so that drain port is at least 8" above finish floor of Equipment Room. Provide 1 1/4" valve on short nipple on drain port for blowdown.

16 Furnish and install HAIR AND LINT STRAINER STR-2 in this vicinity. Support with pipe stands under flanges at each side of strainer, so that drain port is at least 8" above finish floor of Equipment Room. Provide 3/4" valve on short nipple on drain port for blowdown.

17 Furnish and install N.C. ELECTRICALLY ACTUATED MAIN DRAIN VALVE FV-1 on 8" Main Drain line in this vicinity. See *Flow Diagram* for interlock with Surge Tank high-level controls. Valve will close automatically upon loss of power. Furnish and install 8" valved bypass piping to be opened for manual operation if valve is out of service for an extended time -- See *Flow Diagram* for piping arrangement required. The purpose of this valve is to prevent the Swimming Pool from flooding the Basement in the event of power outage during unmonitored hours.

18 Extend pipe through wall of Surge Tank utilizing water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves).

19 See Mechanical Plan for overflow. Extend pipe through wall of Sump Pump Pit utilizing water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves).

20 Furnish and install FLOAT VALVE FV-1, 8" size, as shown on *Flow Diagram*.

21 Furnish and install FLOAT VALVE FV-2, 4" size, as shown on *Flow Diagram*.

22 Furnish and install FLOW CONTROL DEVICE FLO-1, 8" size, as shown on *Flow Diagram*.

23 Furnish and install FLOW CONTROL DEVICE FLO-2, 4" size, as shown on *Flow Diagram*.

24 See Mechanical Plan for drain valve. Extend pipe through wall at bottom of Surge Tank utilizing water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves).

25 Connect to existing 6" flanged steel line with pumped discharge from pool filter backwash connection. Flow rate for backwash is same as flow rate for filtration, 410 gpm per dual filter bank; 4.5 fps velocity at 0.55 psi per 100 ft. P.D.

26 Extend pipe through wall of Equipment Room, height as directed by Pool Subcontractor to accomplish slopes of lines specified. Utilize water-tight sleeve. See Detail for flange, water proofing, sizes, etc. Mechanical Subcontractor shall furnish all sleeves to General Contractor for installation by Gen. Contr. (typical for all sleeves).

27 2" drop from Deck Drain FTG-4 located above. See Architectural/Structural drawings for exact location of Deck Drains. Drains shall be furnished and installed by Pool Subcontractor, including all hangers, fittings, piping, waterproofing. ALL deck drain piping shall slope toward Sump Pump pit at 1/8" per foot, minimum -- Locate piping as high as possible. No pockets, no traps.

28 Support Deck Drain piping on Unistrut brackets, aligned (in a straight line) along face of pilasters. Drops from above shall be made using sanitary tee fittings (not straight tee fittings).

29 Discharge Deck Drain piping 8" above flood rim of Sump Pump pit, where shown.

30 Discharge Gutter Drain line 8" above rim of Surge Tank, with 6" shutoff valve in drop, up 6'-0".

31 Domestic Water Heater, Circulation Pump, Water Storage Tank by Mechanical Subcontractor. See Mechanical Plans.

32 Duplex Sump Pump, Controls, and discharge piping by Mechanical Subcontractor. See Mechanical Plans.

33 Simplex Sump Pump, Controls, and discharge piping by Mechanical Subcontractor. See Mechanical Plans.

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Pool Equipment and Deck Drain Plans

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of

BACKWASH ONLY ONE BANK AT A TIME!

FROM WADING POOL

DECK DRAINS

GUTTER DRAINS

MAIN POOL
295,250 GALLONS

INLETS

INLETS

MAIN DRAIN

EXIST. SAND TRAP

6" OUTFLOW — NEW, TO CITY SEWER

NC WINTER DRAIN BYPASS (POOL DRAIN)

BACKWASH 410 GPM +/-

BACKWASH 411 GPM +/-

NC

NO

NC

NO

NO

410 GPM

HRL 248

NC

NO

NO

NC

NO

410 GPM

HRL 248

410 GPM

410 GPM

410 GPM

410 GPM +/-

820 GPM

CHLORINE INJECTION

410 gpm

FLOW METER SET TO DELIVER 820 GPM

HAIR & LINT STRAINER

6"

8"
410 gpm

NO

NC - Held open electrically CLOSES ON LOSS OF POWER. (AUTO. RESET!)

NC

NO

NO

TO FLOAT VALVE ON INLET INTO SURGE TANK - SEE DETAIL (100% — 20% VARIABLE OPEN)

HIGH LEVEL CONTROLLER TO CLOSE MAIN POOL MAIN DRAIN

6 x 12 OVERFLOW NOTCH

3" 410 gpm

1,468 MBH POOL HEATER

410 gpm

410 gpm

NO

NO

FLOAT CONTROLLED CW MAKE-UP TO MAINTAIN NORMAL WATER LEVEL IN SUMP

6"

6"

6"

10"

HIGH WATER OVERFLOW LEVEL

12"

WADING POOL
945 SF SURFACE
13,280 gallons

SELF-PRIMING 410GPM 80 FT TDH 20 HP

SELF-PRIMING 410GPM 80 FT TDH 20HP

4"

4"

6"

NO

50"

633 CF (4730 gallons) ΔH AVAILABLE (601 CF REQ'D)

670 GALLON ΔH

61"

56"

Floor

GUTTER DRAINS

SIDEWALL INLETS

MAIN DRAIN

BOTTOM INLETS

56 gpm

56 GPM

GPM

TO FLOAT VALVE (10%-100%)

FLOAT CONTROLLED M/U CW.

FLOOR

NO

6"

21"

POOL OPERATING (NORMAL) LEVEL

NORMAL LOW LEVEL

41"

24"

TO SAND TRAP

511 MBH POOL HEATER

2"

FLOW METER

11.2 GPM

3/8" MESH SUCTION STRAINERS

20"

244 GALLONS ΔH (SURGE)

48"

NORMAL LEVEL

12"

2 SEPARATE FILTERS

CHLORINE TABLET FEEDER SYSTEM IN BSMT EQUIP. RM.

H. & L. STRAINER

RELOCATED - SEE PLAN VIEW

2 @ 56 GPM

SURGE TANK (WADING POOL)

SURGE TANK (MAIN POOL)

SUMP PUMPS (BY MECH. SUBCONTR.)

SELF-PRIME PUMP 2@1.5 HP

60 GPM BACKWASH +/- (EACH OF TWO, BACKWASH SEPARATELY)

REVISED 4-11-93 FRS

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Sunport Pool - Pool Piping Flow Diagram

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SP-P4

of

PLUMBING FIXTURES SCHEDULE

SYMBOL	DESCRIPTION
P-1	FLOOR MOUNTED WATER CLOSET:
P-2	HANDICAP WATER CLOSET:
P-3	WALL HUNG URINAL:
P-4	WALL HUNG LAVATORY:
P-5	COUNTER MOUNTED LAVATORY:
P-6	3-HEAD SHOWER SYSTEM:
P-7	HANDICAP SHOWER SYSTEM:

MISCELLANEOUS EQUIPMENT SCHEDULE (92-27A.SUN)

SYMBOL	DESCRIPTION
CO	CLEANOUT: (Outside or unfinished area) SMITH No. 4223-U, cast-iron top, vandalproof screws, galvanized. P.B. top in outside areas.
FCO	FLOOR CLEANOUT: SMITH Fig. 4023-F-C-Y with carpet marker at carpeted areas; SMITH No. 4023-G with galvanized cast iron at concrete, ceramic tile or quarry tile areas; SMITH No. 4143-G with galvanized cast iron and recessed for tile at vinyl or VA tile, linoleum, etc. areas (set rim flush with finish floor).
WCO	WALL CLEANOUT: SMITH No. 4472-U, extra-heavy bronze countersunk plug with stainless steel face wall cover and vandalproof screw. Install where C.O. below fixture connection is required by Code and where shown on plans.
TMV-1	THERMOSTATIC MIXING VALVE: SYMMONS Model No. 5-200A, complete assembly with swivel action check stops on supplies, removable cartridge with strainer, s.s. piston, liquid fill thermal motor, bellows element mounted out of water, volume control shut-off valve, thermostatic controller, bimetal dial thermometer, brass pipe, fittings and unions. 3/4" inlets and 3/4" outlet.
HWH-1	WATER HEATER: STATE WATER HEATERS "Turbo Sandblaster" Model No. SBF100-400NE, natural gas fired, 100 gallon storage in glass-lined tank, 400,000 BTUH sea level input, orificed for 5,300 ft. elevation, with 9" i.d. METALBESTOS type B vent for atmospheric burner. Tank shall be stamped for ASME working pressure of 160 psig, with ASME combination temperature and pressure relief valve. AGA and NSF approved. Shall comply with ASHRAE energy efficiency requirements, current version. Manufacturer's rating of 380 gph recovery at 100-deg. F. rise. 1" natural gas connection. 1 1/2" cw and hw connections. 30 1/4" dia. x 73" to top of draft diverter. Set to deliver 140-deg. F. hot water to storage tank.
HWC-1	HOT WATER CIRCULATING PUMP: BELL & GOSSETT Series "PR", 1 1/2" flanged connections, in-line booster, 1750 RPM, 1/6 HP, 120v-1ϕ-60 cy motor, 10 gpm against 16 ft. TDH, all bronze construction. With switch on wall adjacent to pump, with engraved phenolic resin nameplate attached reading "Hot Water Circulating Pump -- Storage Tank -- on-off".
HWC-2	HOT WATER RECIRCULATING PUMP: BELL & GOSSETT Model 75, 3/4" sweat connections, in-line booster, 1750 RPM, 1/12 HP, 120v-1ϕ-60 cy motor, 5 gpm against 7.5 ft. TDH, all bronze construction. With switch on wall adjacent to pump, with engraved phenolic resin nameplate attached reading "Hot water recirculating pump -- to building -- on-off".
HWS-1	HOT WATER STORAGE TANK: A. O. SMITH "Custom-Line" Model HD42-600, capacity 300 gallons of 140° F. hot water, with diameter of 42" and overall length of 102", with 11" x 15" manhole, tappings as shown on piping details. ASME stamped for 150 psi working pressure. Tank shall be constructed of carbon steel; lining shall be glass. With factory installed anode rods (standard for glass-lined tank). Tank shall be horizontal, with two saddles approximately 32" long with four three-inch ips threaded flanges for pipe legs. Field or shop fabricated 3" ips legs with 8" x 8" x 1/2" base plates; weld cross bracing on all four sides with 1 1/4" pipe; all welds ground smooth; support structure shall be painted. Insulation: tank shall be insulated with FIBERGLAS 1 1/2" thick "Metal Mesh Blankets", with 1/2" coat of "O-C" insulating cement over blankets. Cover cement with lagging adhesive, 6-oz. canvas, and a final coat of brushed-on lagging adhesive. Paint according to "Painting" section of the specifications.
TH-1	THERMOMETER: WEISS "Vari-angle", 9" case, 3 1/2" element, separable socket with immersion well, 30° F. to 300° F. scale range, for chemically treated swimming pool water.
AQ-1	AQUASTAT: HONEYWELL Series 4000 with immersion well and separable socket for installation in tank. Set to control burner on Water Heater to maintain 140° F. in Tank (wired in series with Flow Switch FS-1)
FS-1	FLOW SWITCH: McDONNEL-MILLER Model FS4-3, connected in series with Aquastat AQ-1 to control burner circuit on Water Heater.
SP-1	DUPLEX SUMP PUMP: PACO PUMPS, INC. Model 470-15, duplex, 5 HP, 230 volt-3ϕ-60 cycle; each pump capable of delivering 250 gpm against 35 ft. TDH, non-overloading, 1750 RPM, 4" discharge size, capable of passing 3" solid debris; overall physical of each pump not to exceed 16" x 32", totally submersible, with cord length as required to route in an acceptable manner to Pump Controller on wall (see Electrical). With PacoLift QDN mounting kit including rails and brackets for quick disconnect for cleaning and draining. Install per manufacturer's instructions. Furnish and install shutoff valve and vertical lift check on each discharge pipe above flood rim of sump. U/L listed for OSHA and EPA Class 1, Group D, Div. 1 installations.
SPC-1	DUPLEX PUMP CONTROLLER: PACO panel; all components (and panel) shall have U/L label. All controls shall be mounted in NEMA 1 enclosure (or as required by location); all circuit bkrs. shall have operators extending thru door of enclosure. All motor starter overload resets, selector switches, push buttons and pilot lights shall be mounted on the door of the enclosure. Control for ea. pump shall include a thermal magnetic circuit breaker, rotary hand-off-auto switch, and magnetic motor starter with overload relays and quick-trip heaters. Include a door interlock switch to kill the control circuit when door is open, a control circuit transformer with fused 115volt secondary, and a door mtd. control cct. disc. switch. Pump operation shall be controlled by three (3) bulb type liquid level sensors (Cl. 1, Grp. D, Div. 1). Standard lead-lag sequencing, with single or double operation as required. With alternator, with pump seal leakage detection. High level alarm circuit not required.
SP-2	SIMPLEX SUMP PUMP: PACO PUMPS, INC. Model No. PIP702a, simplex, 1/2 HP, 115 volt-1ϕ-60 cycle; pump capable of delivering 34 gpm against 25 ft. TDH (44 gpm against 20 ft. head), non-overloading, 1750 RPM, 1 1/2" discharge size, capable of passing any solid debris that passes through inlet screen; overall physical size of pump approximately 9" dia. x 14" high, totally submersible, with 8 ft. cord length (see Electrical for wall outlet). With mercury float switch mounted as low as possible to actuate pump when water in existing sump rises.
FD-1	FLOOR DRAIN: SMITH No. 2010-B cast iron body and flashing collar, Nickel Bronze adjustable strainer, 6" square top, 9" diameter flange, 2" outlet size for regular caulk, with 2" vented p-trap below floor. Set flush with finish floor. (Note: coordinate with General Contractor to assure that flashing is compatible with floor construction and strainer is flush with finish floor.)
SD-1	SHOWER DRAIN: Same as FD-1; carefully coordinate construction with shower pan so that drain clamps shower pan such that any water collecting on the pan (below topping slab or tile) will percolate through the weep holes. Do not allow weep holes to be blocked by grout or other debris during tiling or other floor construction work.

SWIMMING POOL EQUIPMENT (92-27A.SUN)

SYMBOL	DESCRIPTION
SPP-1 and SSP-2	SWIMMING POOL PUMP: HYDROMATIC Model 40MPSFHVD, 4", self-priming pump, V-belt drive with guard, stainless fitted, heavy-duty shaft, cast iron body, 1770 RPM, 230volt-3ϕ-60cy, 20-HP motor, NEMA frame no. 256T, with 3/4" ball valves on both prime and vent connections, non-overloading at any point on pump curve, enameled cast iron bowl, capable of delivering 450 gpm against 80 ft. TDH; the bottom of the suction pipe is approximately 48" below centerline of pump suction. 4" suction and 4" discharge 125 lb. standard flanges. Furnish galvanized or bronze mesh strainer (6" fpt, 3/8" mesh, approx. 8" high x 12" wide basket for installation on end of suction pipe (see detail). Furnish and install combination motor-starter and disconnect switch with on-off switch and "run" light, with BUSS *Fusetrons* sized to protect motor. Install nameplate on each Disconnect Switch and its corresponding pump engraved "SWIMMING POOL PUMP SPP-1" or "SWIMMING POOL PUMP SPP-2", as applicable. (Note: Suppliers are cautioned not to propose reducing pipe sizes, component ratings, motor horsepower, etc.) Supplier shall furnish factory-trained engineer to supervise startup and to set flow. Construct concrete pad 4" thick, 1/2" chamfered edges, on 1/2" cork pad or equivalent to raise pump frame off Equipment Room floor.
WPP-1 and WPP-2	WADING POOL PUMP: GRUNDFOS Model CR8-20U, vertical, base-mounted, in-line, stainless steel, centrifugal pump, with 1 1/2 HP, 1770 max. RPM, 230volt-3ϕ-60cy motor, NEMA frame no. 56C, non-overloading at any point on pump curve, capable of delivering 56 gpm against 80 ft. TDH; with 2" suction and 2" discharge 125 lb. standard flanges. Furnish galvanized or bronze mesh strainer (3" fpt, 3/8" mesh, approx 6" high x 10" wide basket for installation on 2" suction pipe. With 3/4" ball valve on prime connection. Furnish and install combination motor-starter and disconnect switch with on-off switch and "run" light, with BUSS *Fusetrons* sized to protect motor. Install nameplate on each Disconnect Switch and on its corresponding pump engraved "WADING POOL PUMP WPP-1" or "WADING POOL PUMP WPP-2", as applicable. (Note: Suppliers are cautioned not to propose reducing pipe sizes, component ratings, motor horsepower, etc.) Construct concrete pad 4" thick, 1/2" chamfered edges, on 1/2" cork pad or equivalent to raise pump bases off Equipment Room floor.
SPH-1	SWIMMING POOL HEATER: Teletherm Model RAYPAK Model No. P-1468, natural gas fired, 1,467 MBH S.L. input orificed for 5,300 ft. elevation, 1" finned copper tube heat exchanger with bronze header, ASME stamped for 160 psi W.P., 100% safety pilot, with draft diverter. (With 18" I.D. METALBESTOS Type "B" vent up to existing 24" combination flue up through chimney to above roof. 76 1/2" to top of draft diverter. With ASME combination temperature and pressure relief valve, sized for input, with full size discharge to turn down above sump as shown on plans. Overall dimensions of heater cabinet shall not exceed 75" x 33" x 34" cabinet height. 3" water inlet and outlet connections, 1 1/4" natural gas connection. With high-limit controller and "Unatherm" governor (Thermostatic Mixing Valve with bypass) to control outlet temperature between 105° F. and 115° F. Furnish tube cleaning equipment and instructions to Owner's Representative. Supplier shall furnish factory-trained engineer to approve connections, supervise startup and to set temperature and flow of water.
WPH-1	WADING POOL HEATER: Teletherm RAYPAK Model No. P-514, natural gas fired, 511.5 MBH S.L. input orificed for 5,300 ft. elevation, 1" finned copper tube heat exchanger with bronze header, ASME stamped for 160 psi W.P., 100% safety pilot, with draft diverter. (With 10" I.D. METALBESTOS Type "B" vent up to existing 24" combination flue up through chimney to above roof. 57" to top of draft diverter. With ASME combination temperature and pressure relief valve, sized for input, with full size discharge to turn down above sump as shown on plans. Overall dimensions of heater cabinet shall not exceed 33" x 30" x 33" cabinet height. 2" water inlet and outlet connections, 1" natural gas connection. With high-limit controller and "Unatherm" governor (Thermostatic Mixing Valve with bypass) to control outlet temperature between 105° F. and 115° F. Furnish tube cleaning equipment and instructions to Owner's Representative. Supplier shall furnish factory-trained engineer to approve connections, supervise startup and to set temperature and flow of water.
SPF-1 and SPF-2	SWIMMING POOL FILTERS: SWIMQUIP Model Number HRL248, dual tank model high rate sand filter, as manufactured by EUREKA MANUFACTURING, Bismarck, North Dakota, 1-800-472-1712. NSF rated for 20 gallons per minute per square foot of filter area. Each tank shall be 48" diameter, and shall be complete with overhead distributors, low collection tubes, automatic air vent with adjacent manual vent valve. Furnish and install sand, gravel, and concrete required for optimum operation of the filter. Each tank shall have 12.6 square feet of filter area (25.2 sq. ft. combined filter area). Complete with manifold piping, __" face piping with four (4) butterfly valves operated by a single control lever and linkage. With control panel with sight glass and two 60 psig gauges, installed as recommended by manufacturer. Capable of filtering pool water at the rate of 450 gpm through 25.2 sq. ft. of filter media at 17.9 gpm/sf.
WPF-1 and WPF-2	WADING POOL FILTERS: SWIMQUIP Model Number HRP24, single tank model high rate sand filter, as and manufactured by STA-RITE INDUSTRIES, Delavan, WI, 414-728-5551. NSF rated for 20 gallons per minute per square foot of filter area. Tank shall be compression-molded fiberglass, 24" diameter, 50 psi working pressure, and shall be complete with overhead distributors, low collection tubes. Furnish and install automatic air vent with adjacent manual vent valve. Furnish and install manufacturer-recommended silica sand as required for optimum operation of the filter. Tank shall have 3.1 square feet of filter area. Complete with 6-position multiport ABS valve and piping, 2" ips pipe connections. With combination fill cap and pressure gauge on top of filter. Capable of filtering pool water at the rate of 56 gpm through 3.1 sq. ft. of filter media at 18.06 gpm/sf.
STR-1	HAIR AND LINT STRAINER: SMITH Fig. 8790, DUCO coated body and cover, with ASA 125 flanges, yoke type cover clamp, 900 gpm with 0.35 psi pressure drop with clean strainer; non-corrosive strainer basket with 1/8" perforations and lift handle; 8" size, overall length (flange to flange) 17" x overall height 26 1/4" to top of yoke clamp. With 1 1/4" drain plug on bottom of body.
STR-2	HAIR AND LINT STRAINER: SMITH Fig. 8790, DUCO coated body and cover, with ASA 125 flanges, yoke type cover clamp, 112 gpm with 0.7 psi pressure drop with clean strainer; non-corrosive strainer basket with 1/8" perforations and lift handle; 3" size, overall length (flange to flange) 8 3/4" x overall height 13 1/4" to top of yoke clamp. With 3/4" drain plug on bottom of body.
FTG-1	MAIN DRAIN -- SWIMMING POOL:
FTG-2	MAIN DRAIN -- WADING POOL:
FTG-3	MUSHROOM DRAIN -- WADING POOL:
FTG-4	DECK DRAIN:
FTG-5	SIDEWALL INLET FITTING:
FTG-6	BOTTOM INLET FITTING:
FTG-7	GUTTER DRAIN:
FV-1	FLOAT VALVE -- SWIMMING POOL SURGE TANK: STA-RITE INDUSTRIES Cat. No. 13600-0006, 8" line size, two 7" dia. floats, full open when floats are down, 20% open when floats are up. With s.s. shaft and 3/8" s.s. float rods. Mount between two 8" flanges. See detail.
FV-2	FLOAT VALVE -- WADING POOL SURGE TANK: STA-RITE INDUSTRIES Cat. No. 13600-0004, 4" line size, two 7" dia. floats, full open when floats are down, 20% open when floats are up. With s.s. shaft and 3/8" s.s. float rods. Mount between two 4" flanges. See detail.
LC-1	LEVEL CONTROL: CLA-VAL CO. Clayton 420-CFM6, 2" size, rated at 210 gpm continuous flow, complete with "Valve Closing" modulation on rise in water level in Surge Tank; Main Valve shall be No. 420, Control Valve shall be No. CFM6 pilot control. See detail.
LC-2	LEVEL CONTROL: CLA-VAL CO. Clayton 420-CFM6, 1 1/4" size, rated at 70 gpm continuous flow, complete with "Valve Closing" modulation on rise in water level in Surge Tank; Main Valve shall be No. 420, Control Valve shall be No. CFM6 pilot control. See detail.
FLO-1	FLOW CONTROL DEVICE: GRISWOLD Model No. ___, flange mounted (6" flanges, 7.25" face to face), 820 gpm factory set flow at 16-36 psi line pressure (pump TDH is 80 ft.). With Model No. ___ meter kit; provide meter connections on body of flow control device.
FLO-2	FLOW CONTROL DEVICE: GRISWOLD Model No. ___, flange mounted (4" flanges, 7.25" face to face), 112 gpm factory set flow at 16-36 psi line pressure (pump TDH is 80 ft.). With Model No. ___ meter kit; provide meter connections on body of flow control device.
CHL-1	CHLORINATION SYSTEM:

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City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Sunport Pool - Mechanical Schedules

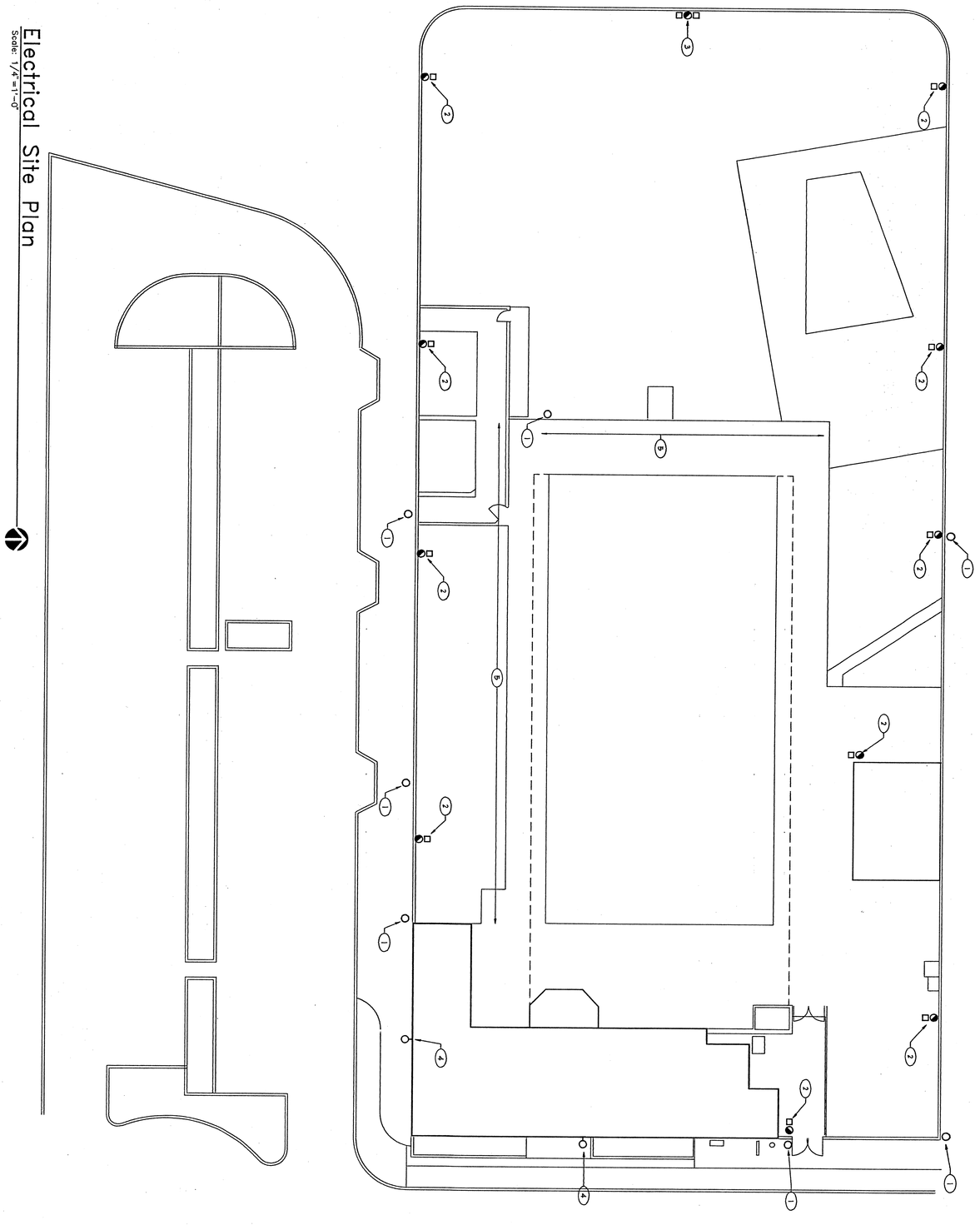
Project No. _____
Drawn _____
Checked _____
Date APR 16 1993
Revisions _____

SP-P5

of

Electrical Site Plan

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



SP-E1

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Revisions

Renovation of Sunport Pool and Rio Grande Pool

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Sunport Pool - Electrical Site Plan

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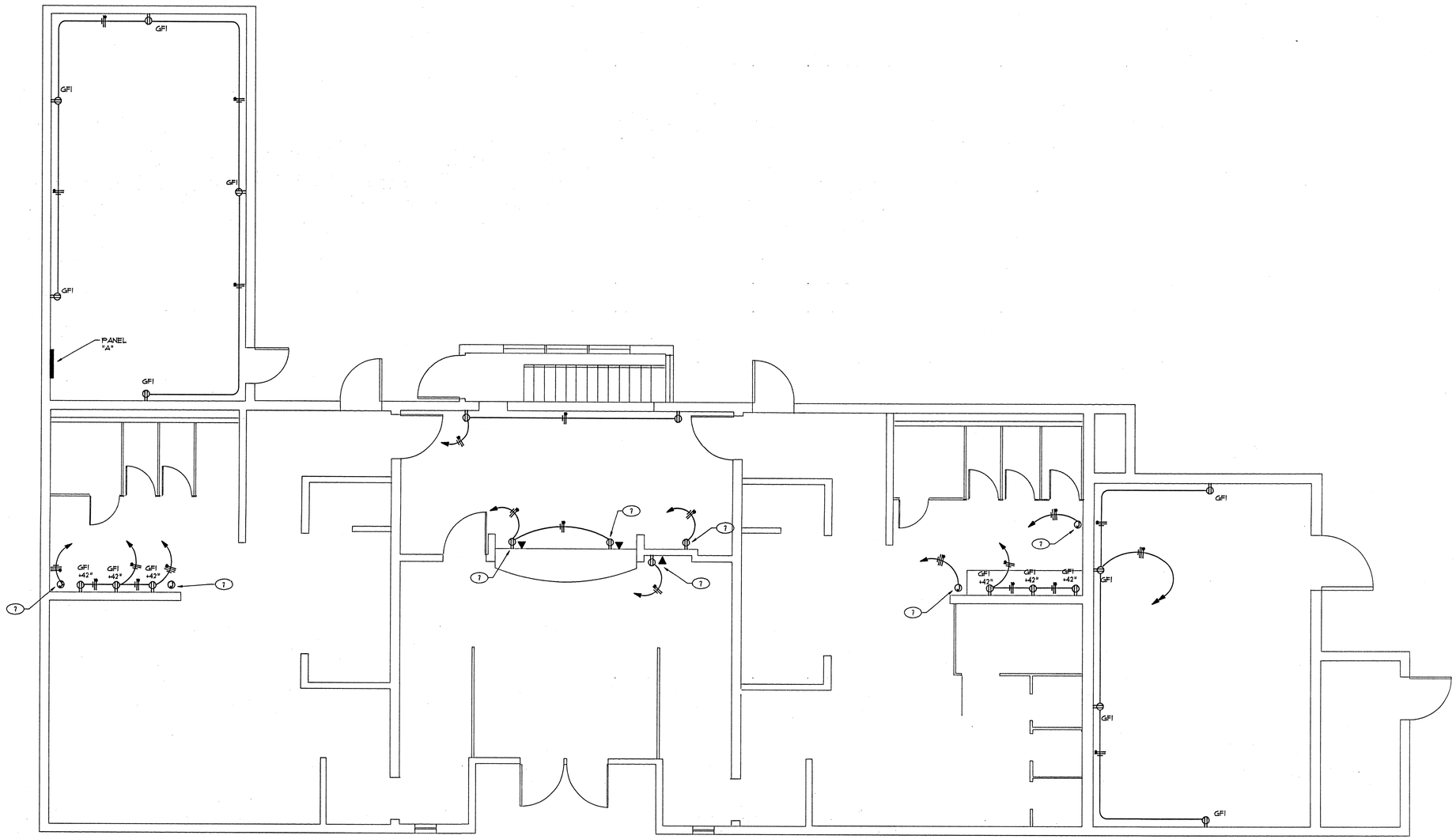

SUN PORT POWER
Scale: 1/4" = 1'-0"

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Sunport Pool - Power Plan

Project No.
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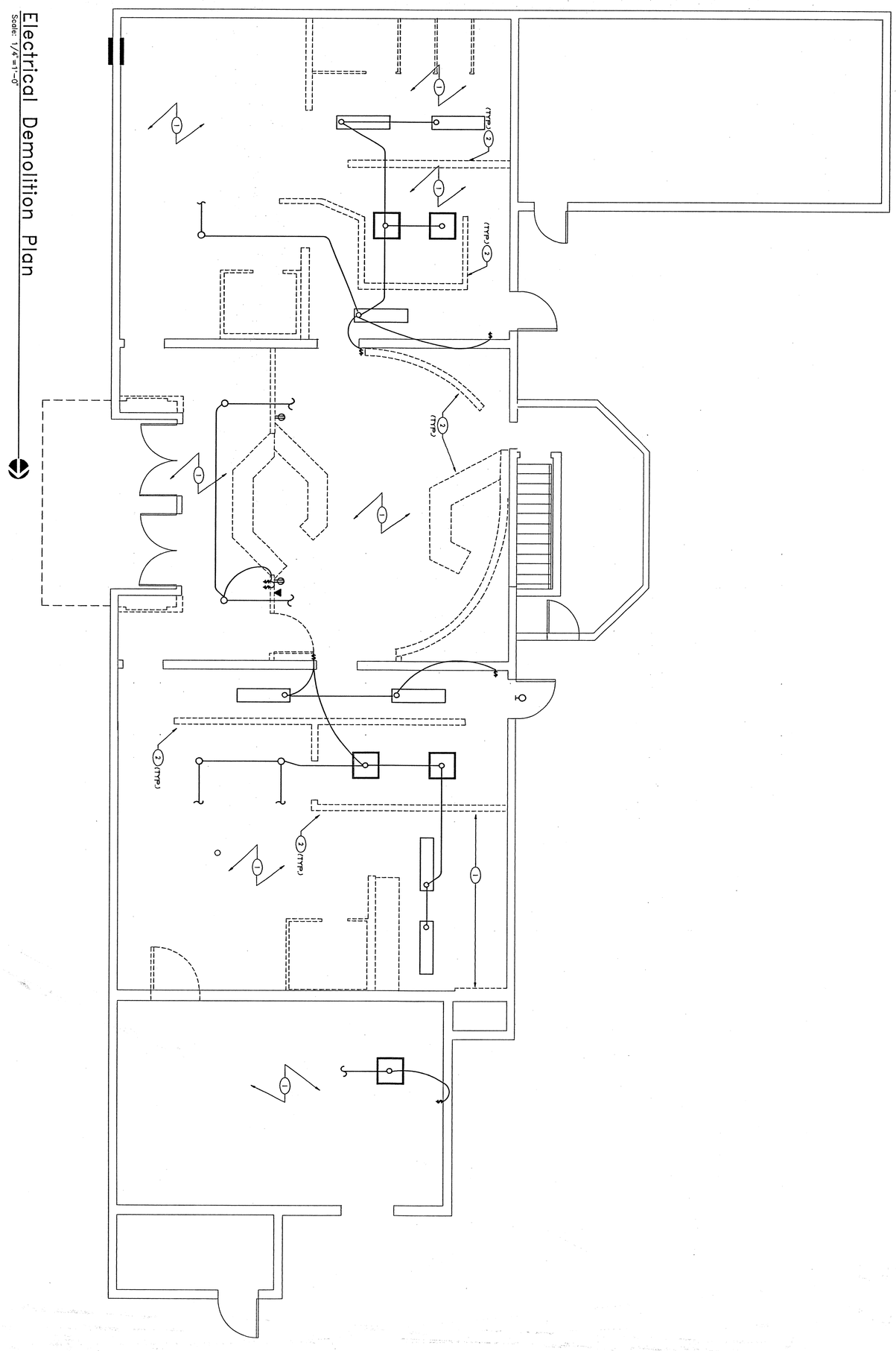
Date APR 16 1993
Revisions

SP-E2

Electrical Demolition Plan

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



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Sunport Pool - Electrical Demolition

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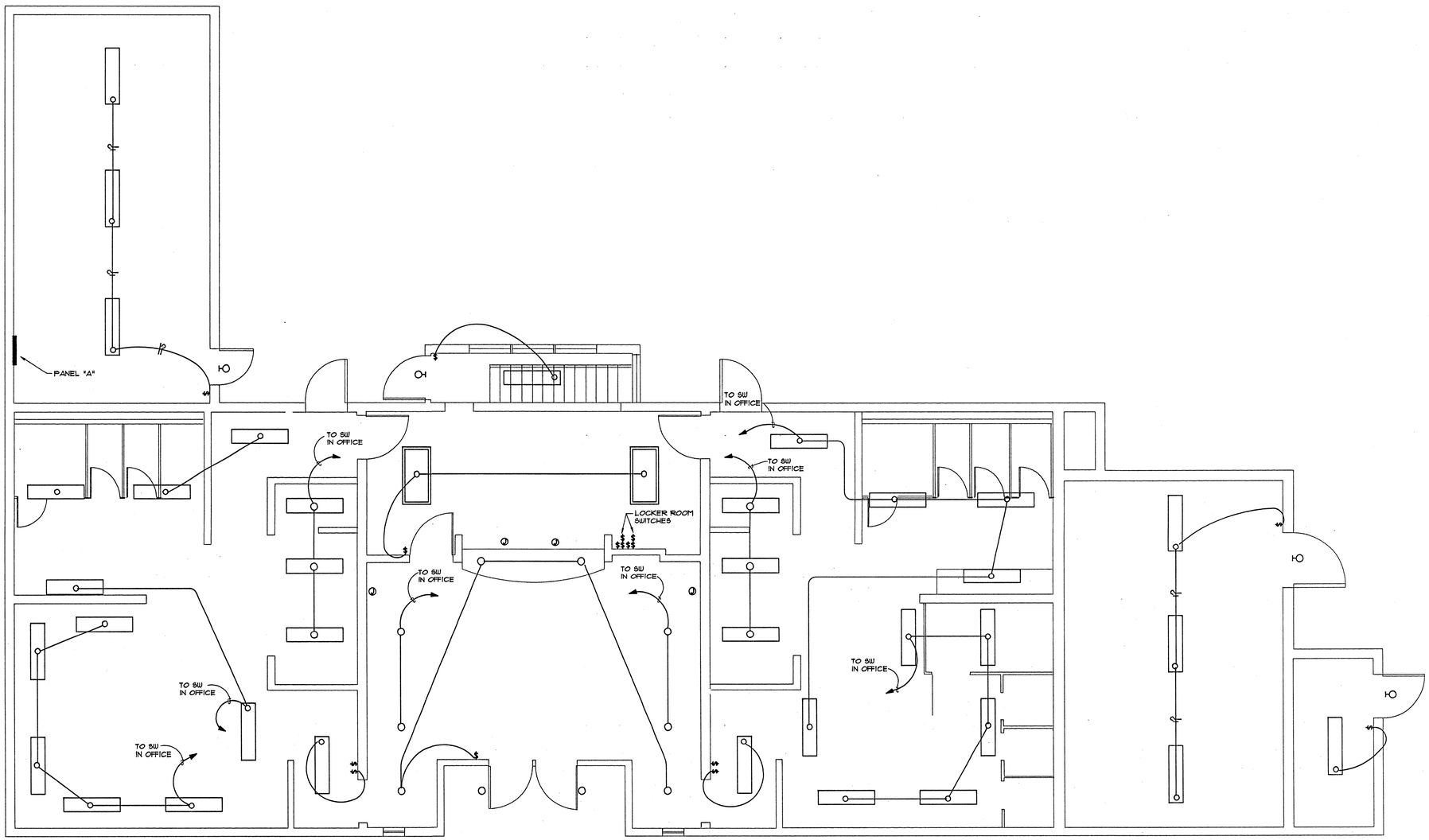

Lighting Plan

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

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Sunport Pool-Lighting Plan

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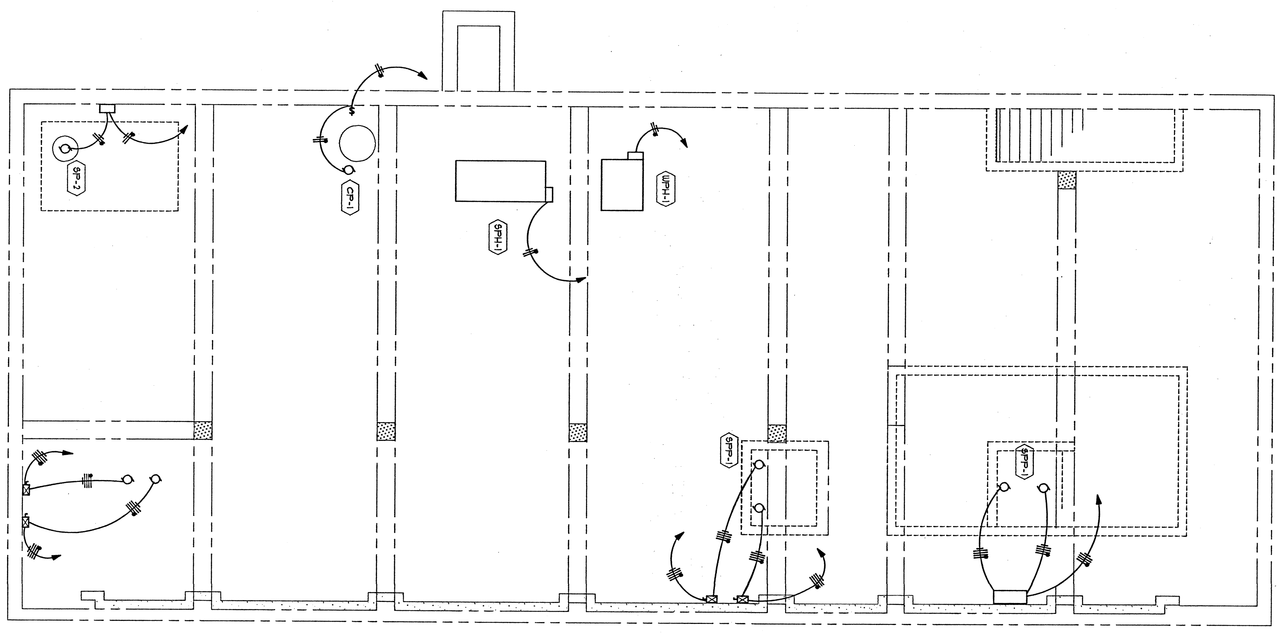
SP-E4

NORTH

SUN PORT POWER EQUIPMENT ROOM

1/4" = 1'-0"



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Sunport Pool - Mech. Rm. Power/Lighting

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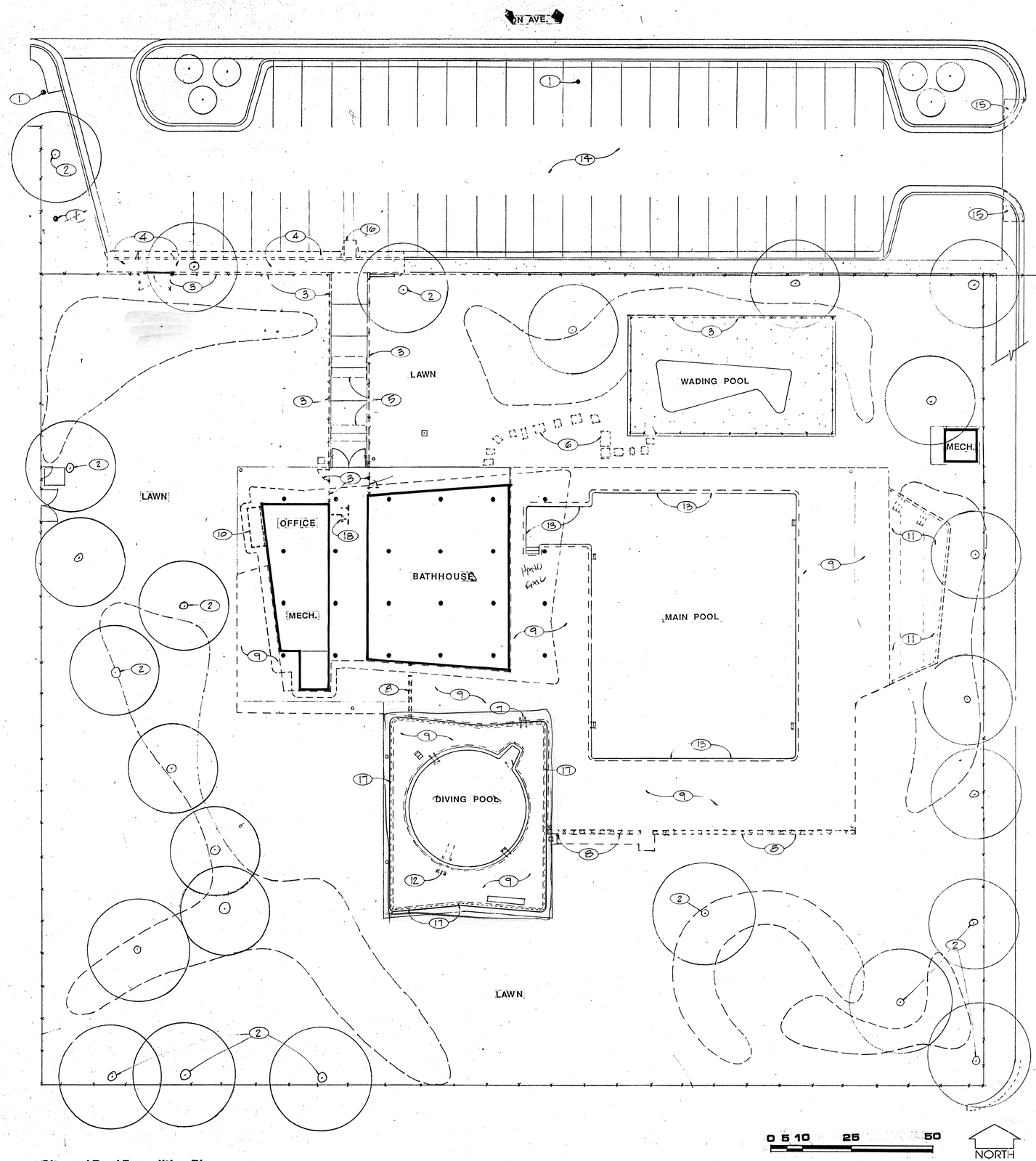

Site and Pool Demolition Plan

1/16" = 1'-0"

KEYED NOTES

1. Existing power poles to remain.
2. Existing trees to remain, typical.
3. Chain link fence to be removed, typical.
4. Concrete curb, gutter and sidewalk to be removed.
5. Remove areas of spalled concrete or heaved concrete where joints have more than 1/4" vertical difference.
6. Concrete pavers to be removed.
7. Ladder to be removed.
8. Stone wall to be removed.
9. Area of hatching indicates concrete paving to be removed.
10. Existing storage room to be demolished.
11. Concrete reviewing stands to be removed.
12. Diving board to be removed.
13. Top of pool to be removed.
14. Parking lot to be re-paved and re-striped throughout.
15. Remove portion of sidewalk, curb and gutter for installation of new sidewalk ramp.
16. Ramp to be removed.
17. Dotted line indicates railing to be removed.
18. Turnstiles and entry control fences to be removed. Patch concrete slab.

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
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Rio Grande Pool - Site and Pool Demolition Plan

Project No.
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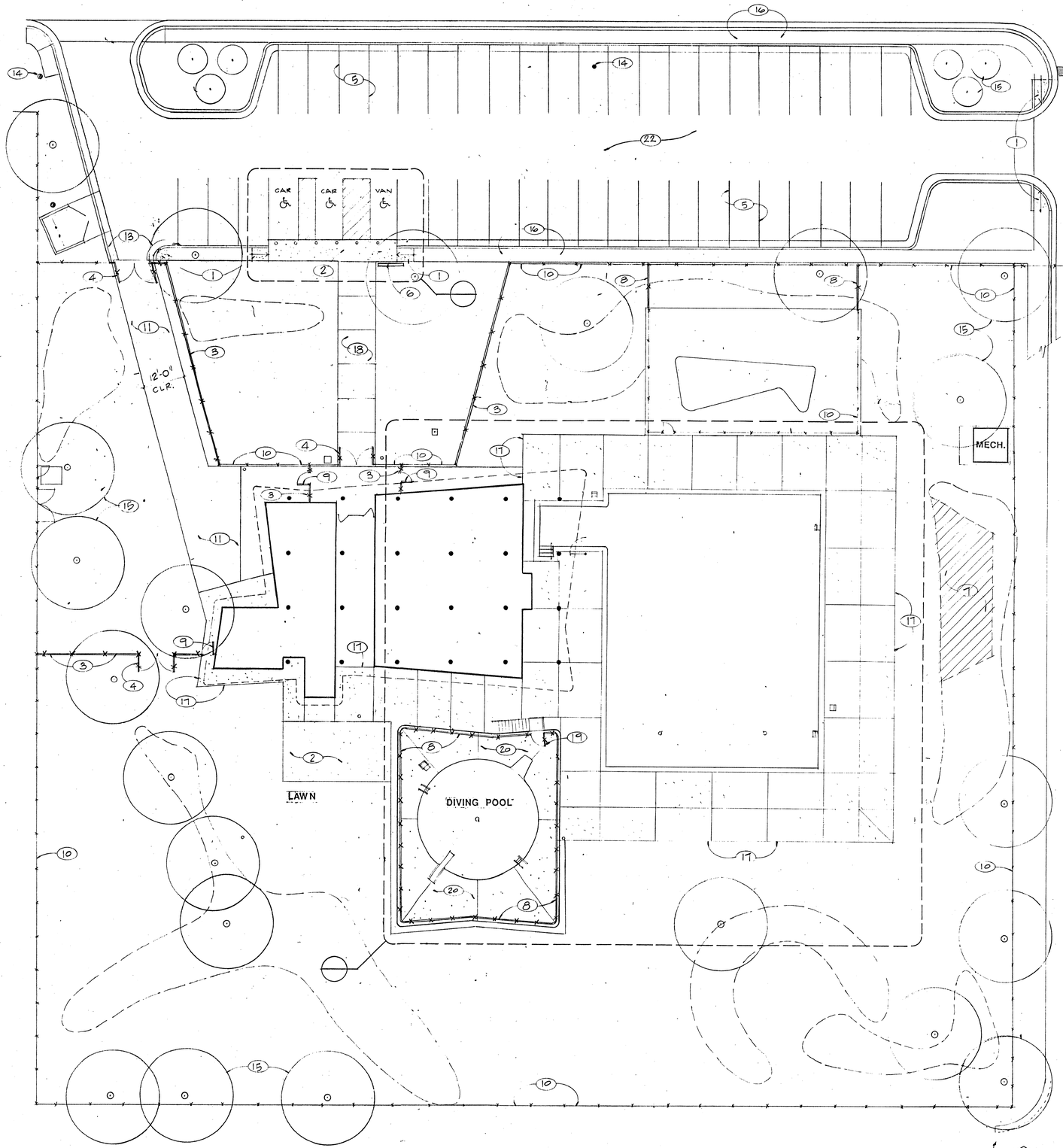
Date APR 16 1993
Revisions

RG-C1

of



New Site Plan
1/16" = 1'-0"

KEYED NOTES

1. New sidewalk ramp per City of Albuquerque standards. Maximum slope 1:12.
2. New concrete paving.
3. Double line indicates new chain link fence, 6'-0" high.
4. New chain link gates, 6'-0" high.
5. New 4" wide striping, typical for entire parking lot.
6. Existing signage to remain.
7. Reconstructed berm with new landscaping at area of demolished spectator platform.
8. New chain link fence, 42" high.
9. New chain link gate, 3'-0" wide x 6'-0" high.
10. Existing chain link fence, typical.
11. New asphalt paved service drive.
12. New sidewalk, curb and gutter.
13. New curb cut.
14. Existing power pole, typical.
15. Existing trees to remain, typical.
16. Existing sidewalk to remain.
17. Edge of new paving.
18. Existing concrete entry walk to be repaired as necessary.
19. See demolition site plan.
20. New concrete pool deck paving.
21. New entry control gate. See detail _____.

22. New asphalt paving - Add. Alt. #

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City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - New Site Plan

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RG-C2

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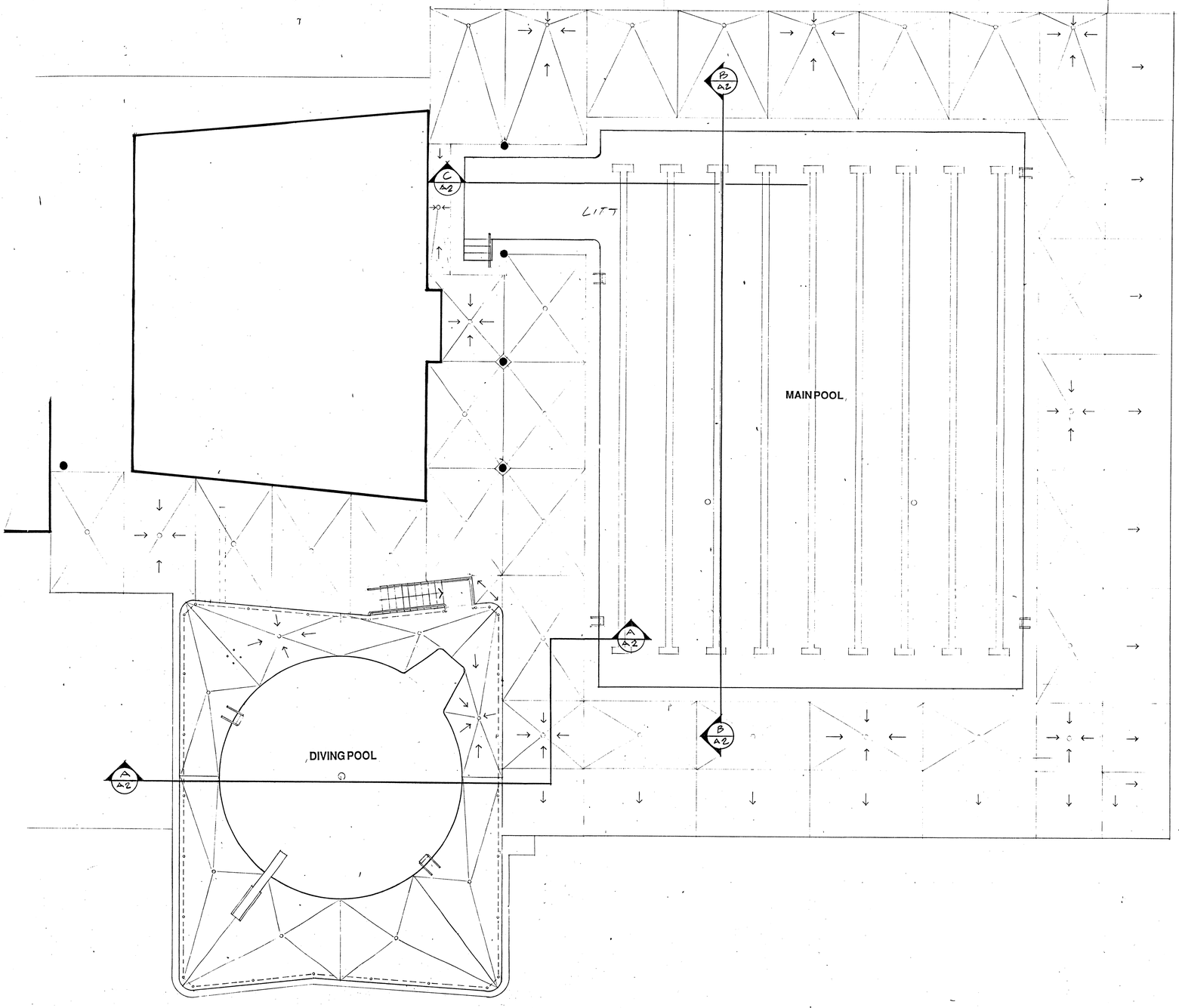

Enlarged Pool Plans

1/8" = 1'-0"

DRAPHIX INC. 366831

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Enlarged Pool Plans

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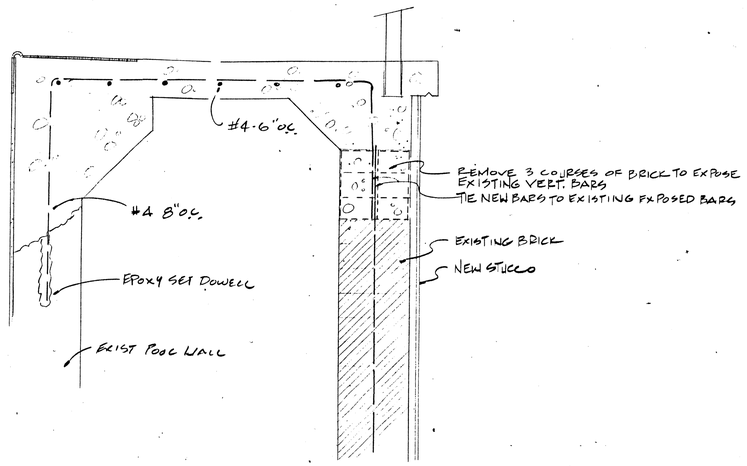
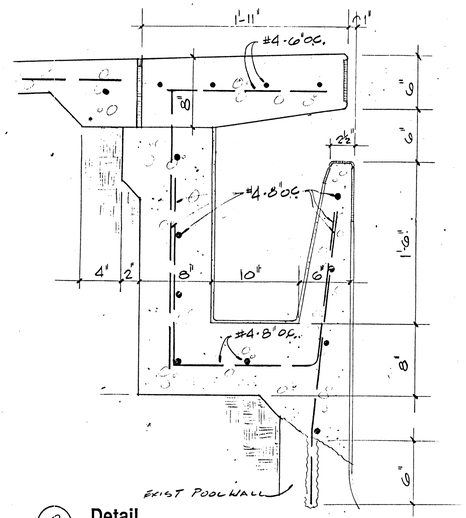
Revisions

RG-A1

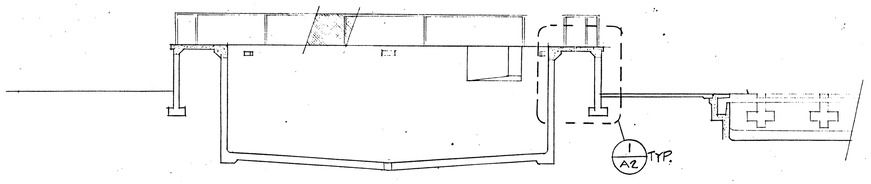
of



1 **Detail**
1-1/2" = 1'-0"

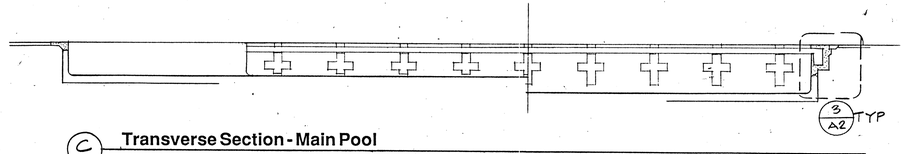


3 **Detail**
1-1/2" = 1'-0"



A **Diving Pool**
1/8" = 1'-0"

B **Longitudinal Section - Main Pool**
1/8" = 1'-0"



C **Transverse Section - Main Pool**
1/8" = 1'-0"

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Rio Grande Pool - Pool Sections and Details

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Demolition Floor Plan

1/4" = 1'-0"

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Bathhouse Demolition Plan

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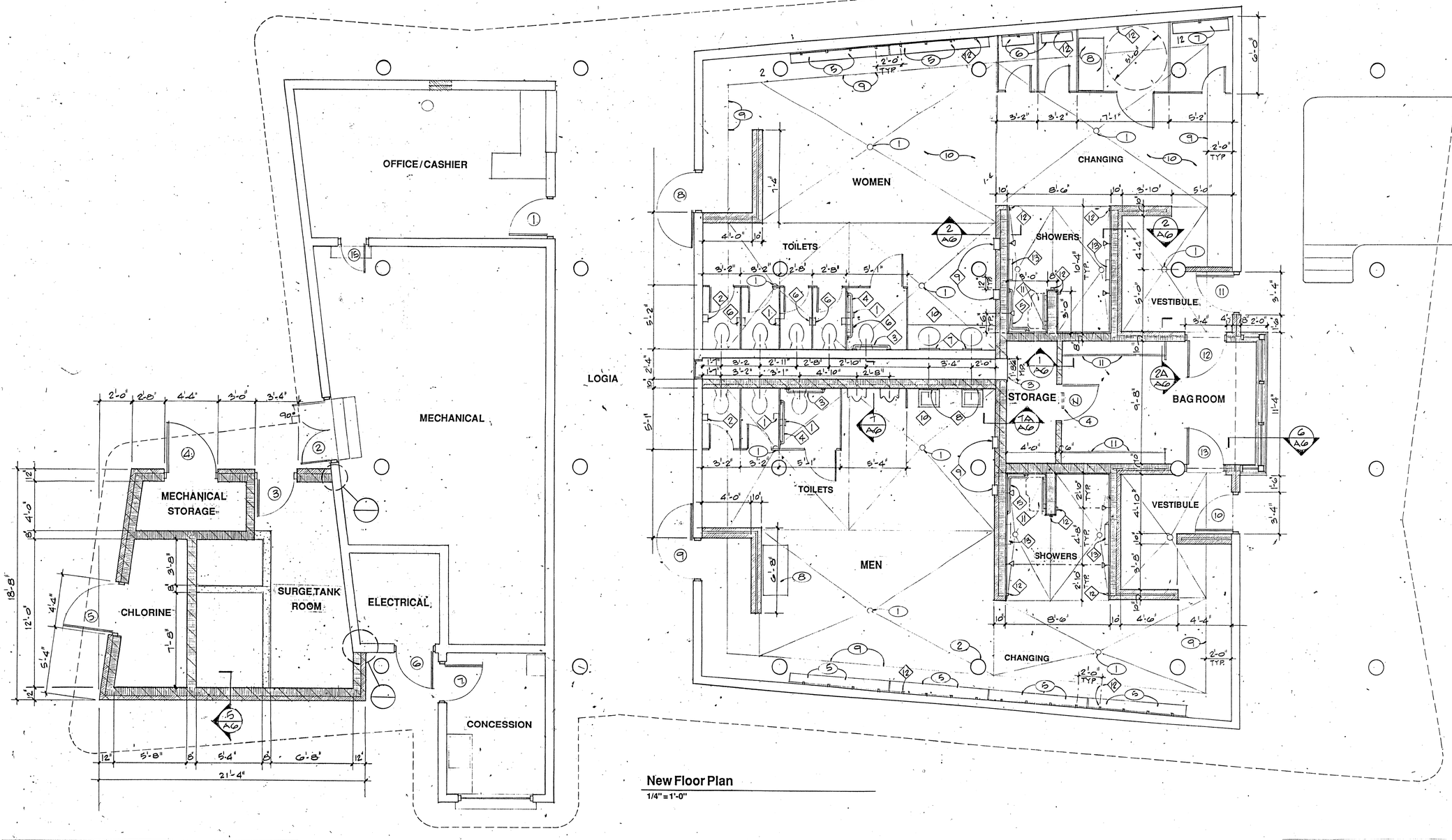

New Floor Plan

1/4" = 1'-0"

TOILET ROOM ACCESSORIES SCHEDULE		
#	DESCRIPTION	MODEL NO. (BOBRICK, U.N.O.)
1	TISSUE DISPENSER	B-386
2	TISSUE DISPENSER	B-288
3	36" GRAB BAR - 1½" DIA. TYP.	B-6206 x 36
4	42" GRAB BAR	B-6206 X 42
5	18" X 36" GRAB BAR	B-6206 - 18 X 36
6	NAPKIN DISPOSAL	B-270
7	MIRROR - 18" X 36"	B-290-1836
8	MIRROR - 18" X 36" W/ SHELF	B-292-1836
9	HAND DRYER	"WORLD DRYER" # RA-3 (208 V
10	SOAP DISPENSER	
11	SHOWER SEAT	B-5181
12	WALL HOOK	B-670
13	SHOWER SHELF	
14		
15		

KEYED NOTES

1. Floor drain, typical. See plumbing plan.
2. Existing concrete column, typical.
3. 20" x 30" stainless steel access door. Mount top of door at 5'-0" A.F.F.
4. Electric clock. Center in wall above door. See electrical plans.
5. 10" x 8'-0" solid plastic fixed bench.
6. 10" x 2'-6" solid plastic fixed bench.
7. 10" x 4'-0" solid plastic fixed bench.
8. 24" x 48" solid plastic fixed bench.
9. 24" perimeter of original slab to remain. Pour new slab to existing.
10. New concrete floor slab. Slope 1/4" per 12" to drains as shown.
11. 2 tiered bag rack, 8" long.
12. Wall hooks.

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Rio Grande Pool - New Floor Plan

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DOOR SCHEDULE

DOOR NO.	PAIR	SIZE WIDTH	SIZE HEIGHT	SIZE THICKNESS	MATERIAL	TYPE	FRAME MATERIAL	FRAME TYPE	FRAME DEPTH	DETAILS HEAD	DETAILS JAMB	DETAILS JAMB	DETAILS THRESHOLD	FIRE RATING	DOOR SIGN ROOM NUMBER	DOOR SIGN TEXT	HARDWARE	REMARKS
1		3'-0"	7'-0"	1¾"	HM	A	HM	1	5¾"									NEW PAINT ONLY
2	X	5'-0"	"	"	"	"	"	2	"									NEW DOORS, FRAME OK
3		3'-0"	"	"	"	"	"	3	"									
4		4'-0"	"	"	"	"	"	"	"									
5		"	"	"	"	"	"	"	"									
6		3'-0"	"	"	"	"	"	1	"									NEW DOOR
7		"	"	"	"	"	"	3	"									PAINT ONLY
8		"	6'-8"	"	"	"	"	"	"									
9		"	"	"	"	"	"	"	"									
10		"	"	"	"	"	"	"	"									
11		"	"	"	"	"	"	"	"									
12		"	"	"	"	B	"	"	"									
13		"	"	"	"	"	"	"	"									
14		"	"	"	"	"	"	"	"									
15		2'-0"	7'-0"	"	"	"	"	"	"									NEW LATCH : PAINT ONLY

ROOM FINISH SCHEDULE

NO	NAME	FLOOR 1 EXPOSED CONC.	FLOOR 2 PAINTED CONC.	FLOOR 3 RUBBER SEAMLESS	FLOOR 4 EXIST. TO REMAIN	BASE 1 RUBBER SEAMLESS NO BASE	BASE 2 EXIST. TO REMAIN	BASE 3	WALLS 1 EXPOSED BRICK	WALLS 2 EXPOSED CMU	WALLS 3 PAINTED CMU	WALLS 4 CERAMIC TILE TO 48"	WALLS 5 CERAMIC TILE TO 84"	WALLS 6 EXIST. TO REMAIN	CEILING 1 PAINTED CONCRETE	CEILING 2 EXPOSED CONCRETE	CEILING 3 EXIST. TO REMAIN	CEILING HEIGHT	REMARKS
	OFFICE/CASHIER		2				3							6			3	9'-0"	
	MECHANICAL			4			3							6			3	"	
	MECHANICAL STOR	1				2				2						2		"	
	CHLORINE	1				2				2						2		"	
	SURGE TANK RM.	1				2				2						2		"	
	ELECTRICAL			4		2								6			3	"	
	CONCESSION			4			3							6			3	"	
	BAG ROOM	1				2					3				1			"	
	STORAGE (BAG RM.)	1				2					3				1			"	
	LOGIA			4			3							6			3	"	
	WOMEN																	"	
	TOILETS			3		1			1			4			1			9'-0"	
	CHANGING			3		1			1						1			"	
	SHOWERS			3		1							5		1			"	
	VESTIBULE			3		1			1						1			"	
	MEN																	"	
	TOILETS			3		1			1			4			1			9'-0"	
	CHANGING			3		1			1						1			"	
	SHOWERS			3		1							5		1			"	
	VESTIBULE			3		1			1						1			"	

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Schedules and Details

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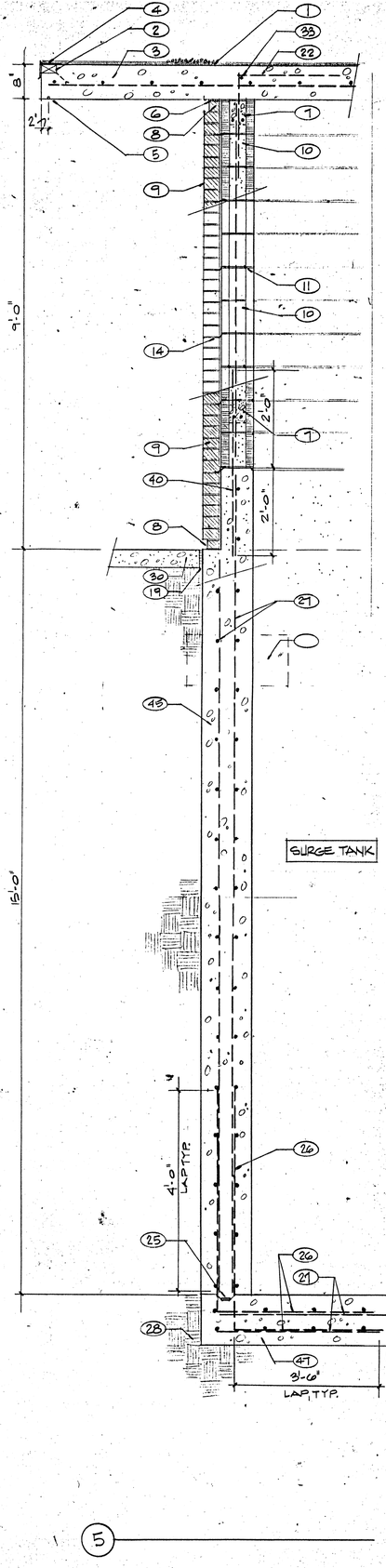

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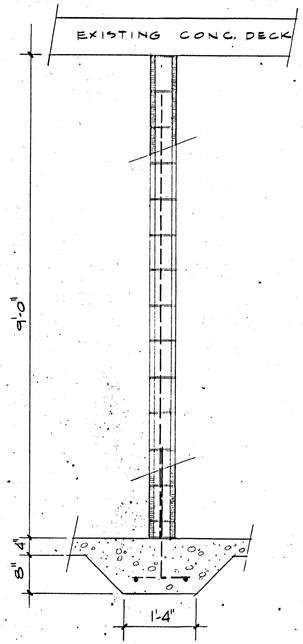

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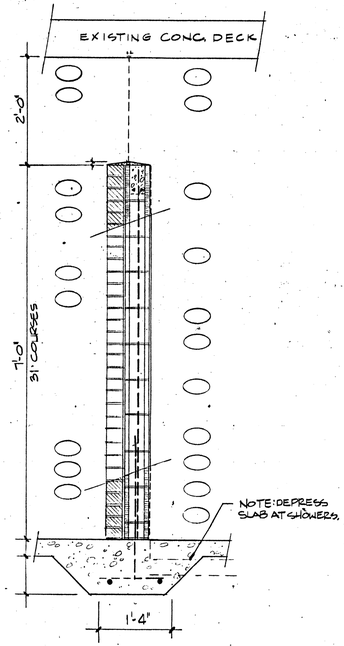

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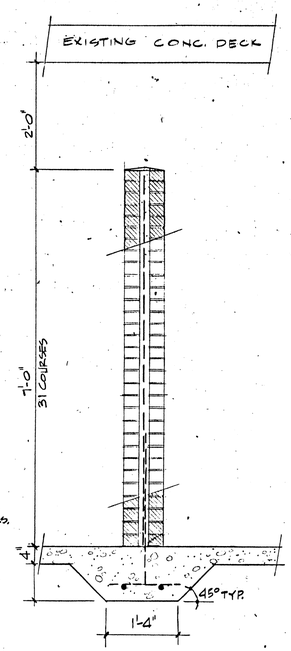

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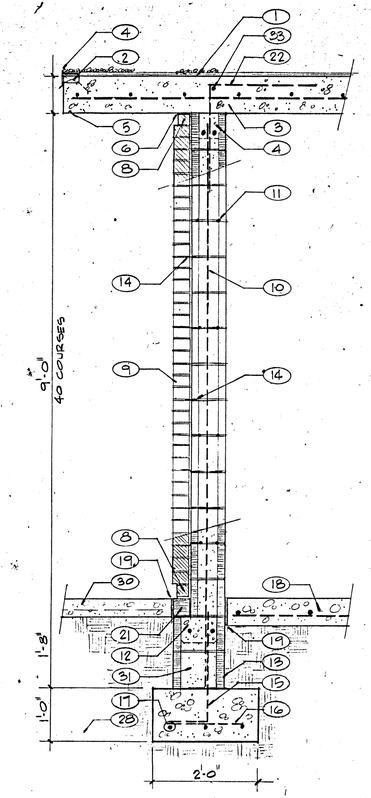

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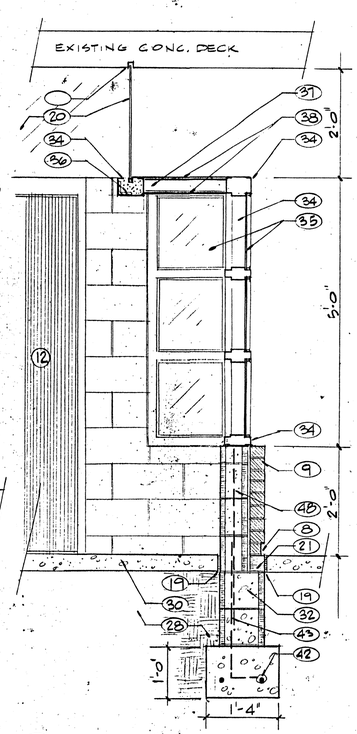

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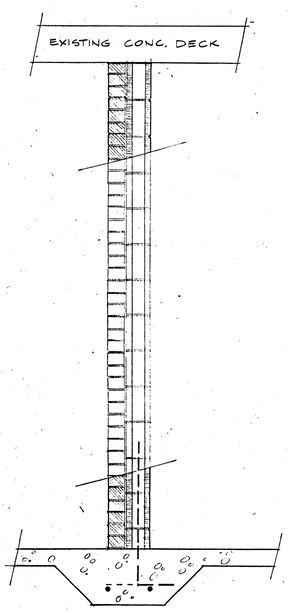

7

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Rio Grande Pool - Wall Sections

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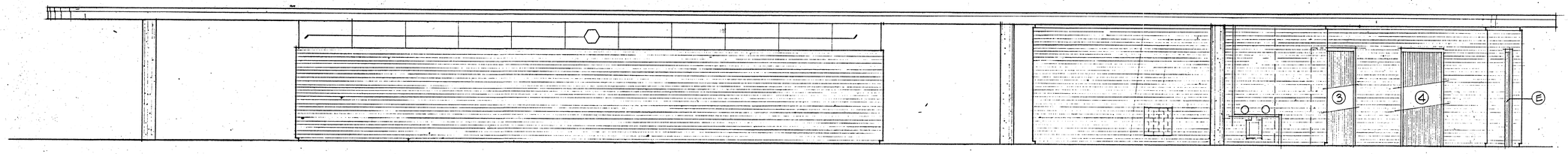
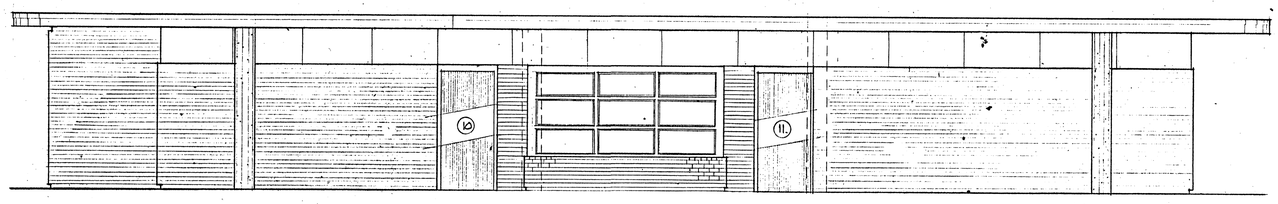
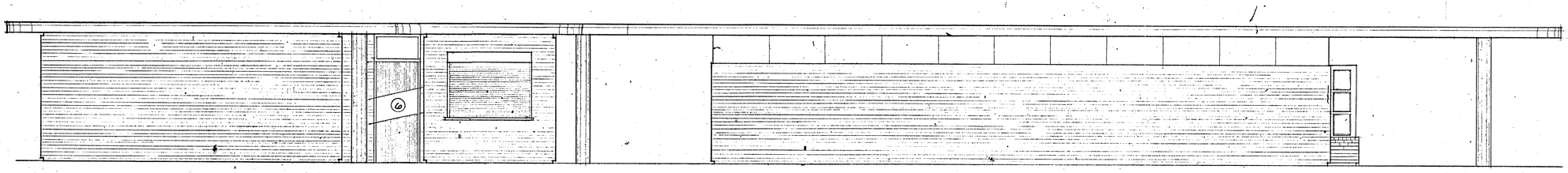


North Elevation
1/4" = 1'-0"



East Elevation
1/4" = 1'-0"



South Elevation
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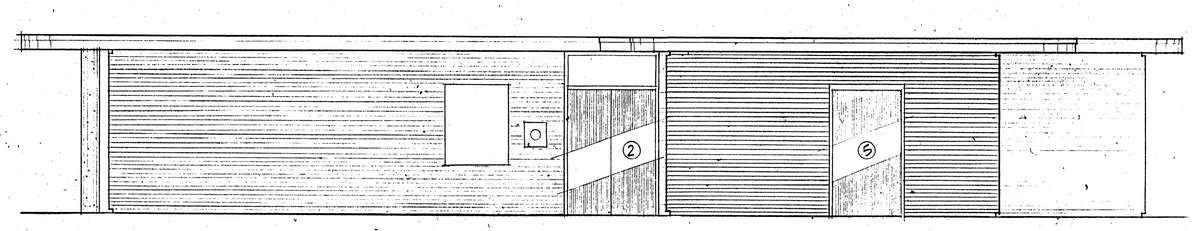
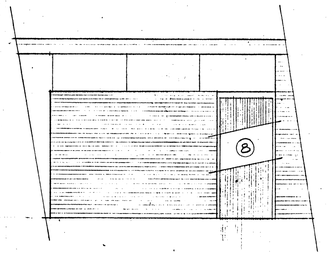
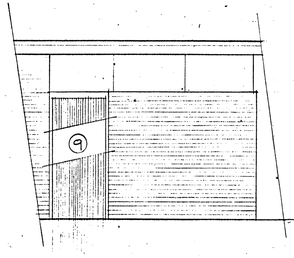
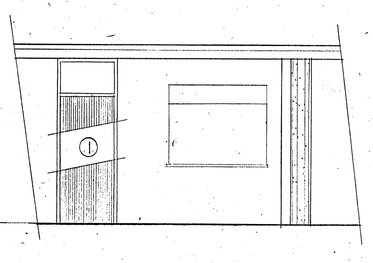
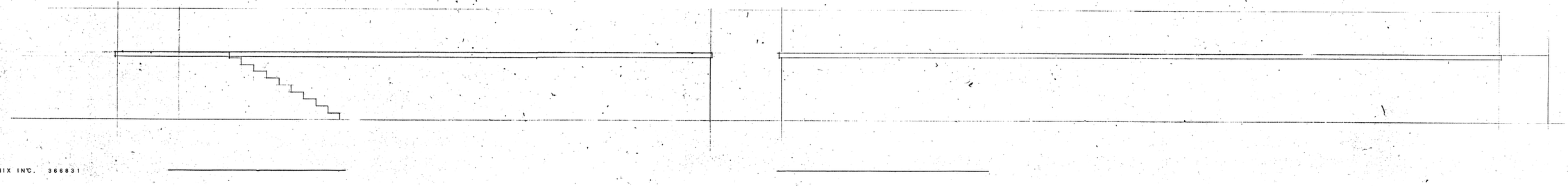








West Elevation
1/4" = 1'-0"



KEYED NOTES

1. Existing gravel stop. Scrape off dripped roof tar, clean, etch, prime and paint.
2. Gravel stop to match existing. Etch, prime and paint.
3. Existing concrete columns. Paint.
4. New brick color and coursing to match that of original adjacent construction.
5. Concrete roof deck. Paint.
6. 1" setback at top and bottom brick courses.
7. New chain link fence.
8. New synthetic stucco. Typical.
9. Provide new curtain for concession stand service window.
10. Replace brick at former heater location.
11. New concrete pool deck slab.
12. Hollow metal window framing. Paint to match doors.
13. New glazing if alternate is accepted.

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Exterior Elevations

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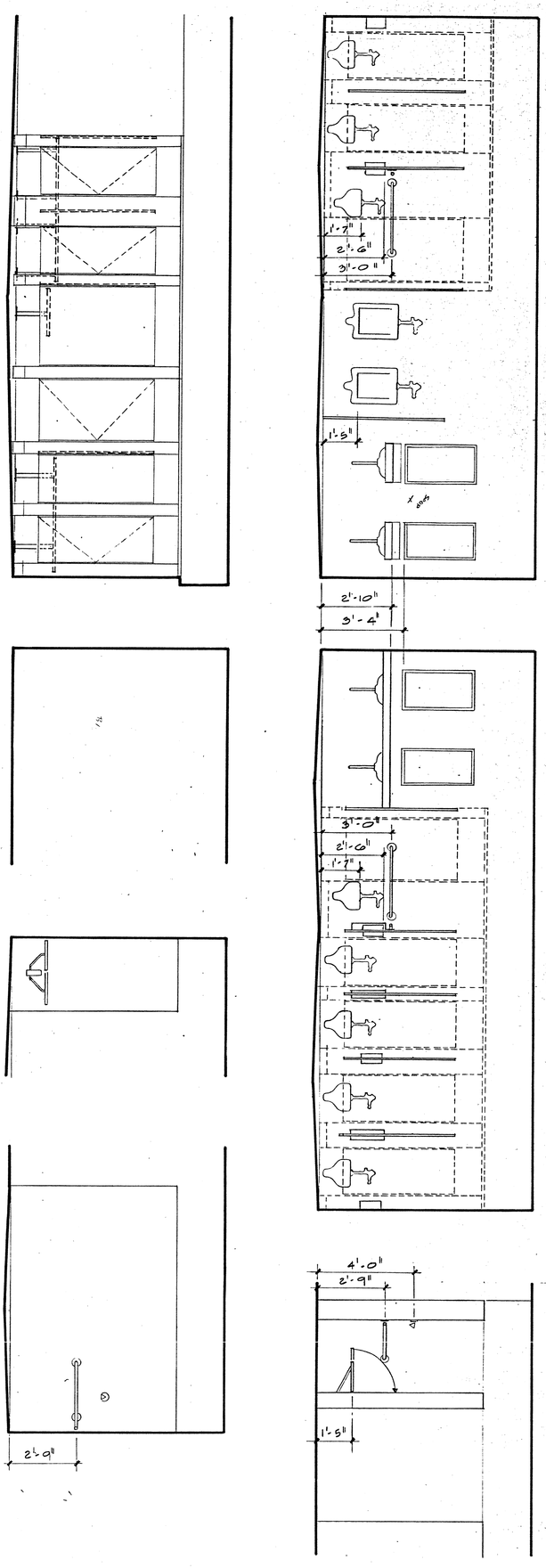

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department

Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Interior Elevations

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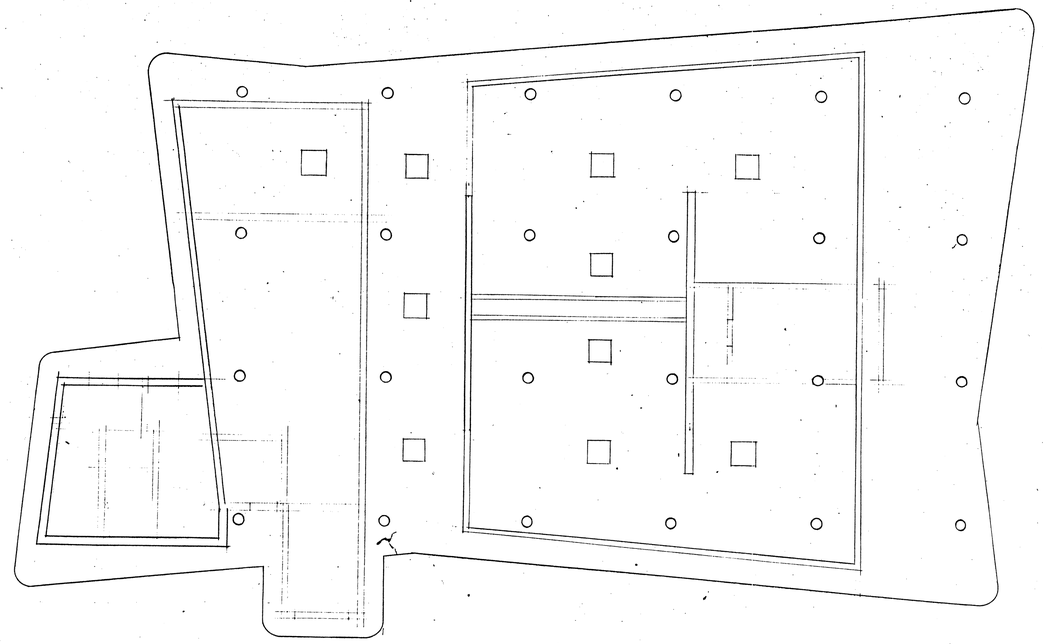
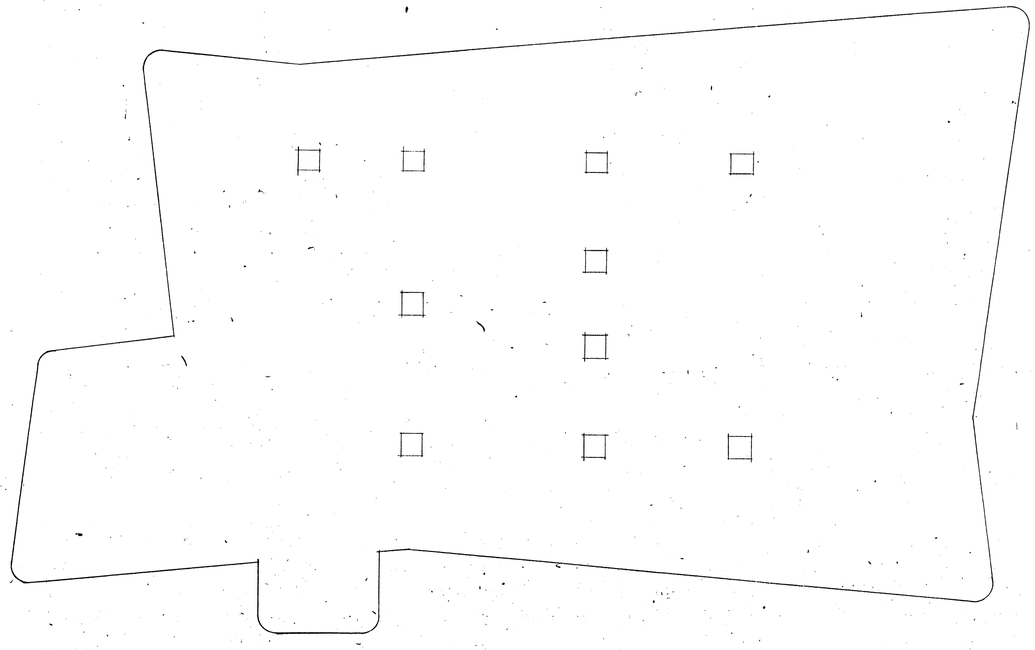


Reflected Ceiling Plan
1/8" = 1'-0"



Roof Plan
1/8" = 1'-0"

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Reflected Ceiling Plan and Roof Plan

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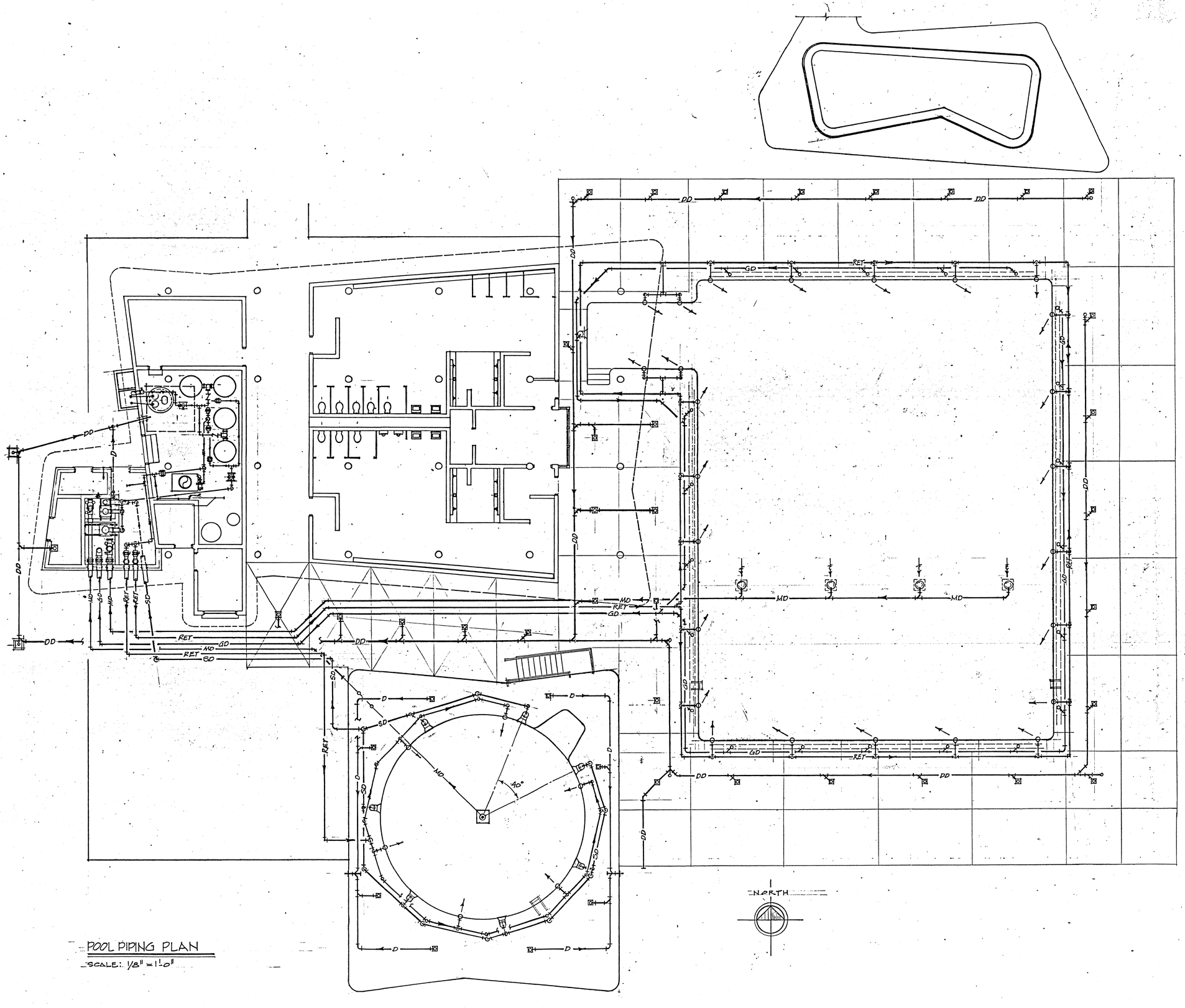

POOL PIPING PLAN

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

GRAPHIX INC 366831

R10
P-1

Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department

Aquatics & Special Programs, Cultural and Recreational Services Department

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Rio Grande Pool - Pool Piping Plan

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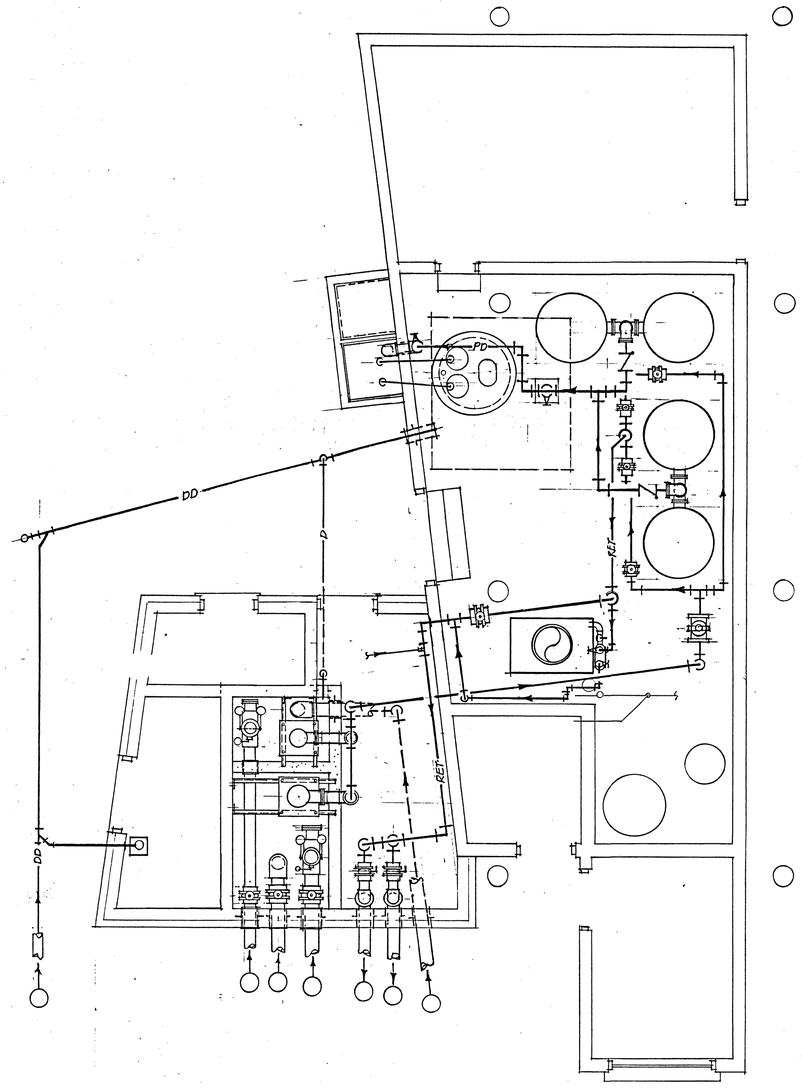

SWIMMING POOL EQUIPMENT PLAN

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

NORTH

SWIMMING POOL EQUIPMENT

(92-27B.RIO)

SYMBOL	DESCRIPTION
MPP-1	MAIN POOL PUMP: FAIRBANKS MORSE Type 11M - Fig. 7000 vertical turbine pump, closed impeller and water-lubricated lineshaft, 2-stage, 1770 RPM, 230volt-3ϕ-60cy. 20-HP motor (7.5 BHP per stage), non-overloading at any point on pump curve, enameled Cast Iron bowl, capable of delivering 480 gpm against 88 ft. TDH; with rubber bearings, cast bronze bearing retainers, stainless steel shaft in three (3) pieces (none of which shall exceed 5'-0" in length); the bottom of the sump is 17'-2" below the bottom of 16 1/2" x 8" discharge head foundation plate. Furnish galvanized mesh strainer (8" fpt, 1/2" mesh, 8" high x 12" wide basket, 11" overall length including threads); set bottom of basket strainer 6" above bottom of surge chamber sump. With mechanical seal, adapter plate on discharge head, hollow-shaft motor. Furnish and install combination motor-starter and disconnect switch, with BUSS *Fusetrons* sized to protect motor. Install nameplate on Disconnect Switch engraved "MAIN SWIMMING POOL PUMP". (Note: Suppliers are cautioned not to propose reducing pipe sizes, component ratings, motor horsepower, etc.) Supplier shall furnish factory-trained engineer to supervise startup and to set flow.
DPP-1	DIVING POOL PUMP: FAIRBANKS MORSE Type 10M - Fig. 7000 vertical turbine pump, closed impeller and water-lubricated lineshaft, 2-stage, 1770 RPM, 230volt-3ϕ-60cy. 15-HP motor (4.4 BHP per stage), non-overloading at any point on pump curve, enameled Cast Iron bowl, capable of delivering 280 gpm against 88 ft. TDH; with rubber bearings, cast bronze bearing retainers, stainless steel shaft in three (3) pieces (none of which shall exceed 5'-0" in length); the bottom of the sump is 17'-2" below the bottom of 16 1/2" x 6" discharge head foundation plate. Furnish galvanized mesh strainer (6" fpt, 3/8" mesh, 6" high x 10" wide basket, 9" overall length including threads); set bottom of basket strainer 6" above bottom of surge chamber sump. With mechanical seal, adapter plate on discharge head, hollow-shaft motor. Furnish and install combination motor-starter and disconnect switch, with BUSS *Fusetrons* sized to protect motor. Install nameplate on Disconnect Switch engraved "DIVING POOL PUMP". (Note: Suppliers are cautioned not to propose reducing pipe sizes, component ratings, motor horsepower, etc.) Supplier shall furnish factory-trained engineer to supervise startup and to set flow.
SPH-1	SWIMMING POOL HEATER: RAYPAK Model No. "Raytherm IV", size 1813, natural gas fired, 1,813 MBH S.L. input orificed for 5,000 ft. elevation, two-pass heat exchanger with bronze header, ASME stamped for 160 psi W.P., 100% safety pilot, with draft diverter. (With 22" I.D. METALBESTOS Type "B" vent up thru thimble to BREIDERT Type "L" aluminum vent cap above roof, by Sheet Metal Subcontractor; not in Pool Subcontract). Overall dimensions of heater shall not exceed 65" x 44" x 63" cabinet height. 4" water inlet and outlet connections, 1 1/2" natural gas connection. With high-limit controller and "Unatherm" governor (Thermostatic Mixing Valve with bypass) to control outlet temperature between 105° F. and 115° F. Furnish tube cleaning equipment and instructions to Owner's Representative. Supplier shall furnish factory-trained engineer to approve connections, supervise startup and to set temperature and flow of water.
PF-1 and PF-2	POOL FILTERS: SWIMQUIP Model Number HRL248, dual tank model high rate sand filter, as manufactured by EUREKA MANUFACTURING, Bismarck, North Dakota, 1-800-472-1712. NSF rated for 20 gallons per minute per square foot of filter area. Each tank shall be 48" diameter, and shall be complete with overhead distributors, low collection tubes, automatic air vent with adjacent manual vent valve. Furnish and install sand, gravel, and concrete required for optimum operation of the filter. Each tank shall have 12.6 square feet of filter area (25.2 sq. ft. combined filter area). Complete with manifold piping, __" face piping with four (4) butterfly valves operated by a single control lever and linkage. With control panel with sight glass and two 60 psig gauges, installed as recommended by manufacturer. Capable of filtering pool water at the rate of 375 gpm through 25.2 sq. ft. of filter media at 14.9 gpm/sf.
FTG-1	MAIN DRAIN -- MAIN POOL:
FTG-2	MAIN DRAIN COVER -- DIVING POOL:
FTG-3	SIDEWALL INLET FITTING:
FTG-4	DECK DRAIN:
FTG-5	SKIMMER WITH EQUALIZER:
FTG-6	GUTTER DRAIN:
FV-1	FLOAT VALVE -- MAIN POOL SURGE TANK: STA-RITE INDUSTRIES Cat. No. 13600-0008, 8" line size, two 7" dia. floats, full open when floats are down, 20% open when floats are up. With s.s. shaft and 3/8" s.s. float rods. Mount between two 8" flanges. See detail.
FV-2	FLOAT VALVE -- DIVING POOL SURGE TANK: STA-RITE INDUSTRIES Cat. No. 13600-0006, 6" line size, two 7" dia. floats, full open when floats are down, 20% open when floats are up. With s.s. shaft and 3/8" s.s. float rods. Mount between two 6" flanges. See detail.
LC-1	LEVEL CONTROL: CLA-VAL CO. Clayton 420-CFM6, 2" size, complete with "Valve Closing" modulation on rise in water level in Surge Tank; Main Valve shall be No. 420, Control Valve shall be No. CFM6 pilot control. See detail.
STR-1	HAIR AND LINT STRAINER: SMITH Fig. 8790, DUCO Coated body and cover, with ASA 125 flanges, yoke type cover clamp, 750 gpm with 0.25 psi pressure drop with clean strainer; non-corrosive strainer basket with 1/8" perforations and lift handle; 8" size; overall length (flange to flange) 17" x overall height 26 1/4" to top of yoke clamp. With 1 1/4" drain plug on bottom of body.
FLO-1	FLOW CONTROL DEVICE -- MAIN POOL: GRISWOLD Model No. ____, flange mounted (6" flanges, 7.25" face to face), 480 gpm factory set flow at 16 - 36 psi line pressure (pump TDH is 88 ft.). With Model No. ___ meter kit; provide meter connections on body of flow control device.
FLO-2	FLOW CONTROL DEVICE -- DIVING POOL: GRISWOLD Model No. ____, flange mounted (6" flanges, 7.25" face to face), 270 gpm factory set flow at 16 - 36 psi line pressure (pump TDH is 88 ft.). Provide meter connections on body of flow control device for use of meter kit furnished with FLO-1, above.
CHL-1	CHLORINATION SYSTEM:
	pH CONTROL -- CO_2? DISCUSS.....
TH-1	THERMOMETER: WEISS "Vari-angle", 9" case, 3 1/2" element, separable socket with immersion well, 30° F. to 300° F. scale range, for domestic hot water.

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Swimming Pool Equipment Plan

Project No.
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Date APR 16 1993
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of

Rio

EXIST.

EXISTING SAND TRAP

EXIST. 8" (VERIFY)

SKIMMERS

3"

EQUALIZER INLETS

RETURN INLETS

RETURN INLETS

MAIN DRAIN

SK
211 gpm (MIN.)

HAIR & LINT FILTER

EXIST.

NC

NO

HRL 24B

HRL 24B

EXISTING FLOOR SINK

D

EXIST. 3"

NEW PUMPS OR RECONDITION EXISTING

EXISTING SUMP

GD

264 GPM TURBINE PUMP

AUTO. CW MAKE-UP

4" OVERFLOW

D

CHLORINE INJECTION

264 gpm FLOW CONTROL

1,800 MBH POOL HEATER

463 gpm FLOW CONTROL

463 GPM TURBINE PUMP

AUTO. CW MAKE-UP

FROM DECK DRAINS

75 GPM SUMP PUMP

SK

20%

100%

6"

MD

SET TO DELIVER 53 gpm

SURGE TANK (DIVING POOL)

MD

GUTTER DRAINS

MAIN POOL
166,759 gallons

463 GPM

GD

MAIN DRAIN

232 gpm (MIN.)

SK/GD

SET TO DELIVER 208 GPM

MD

208 GPM (MAX.)

SURGE TANK (MAIN POOL)

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Renovation of Sunport Pool and Rio Grande Pool
City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department
Rio Grande Pool - Domestic Plumbing Plan

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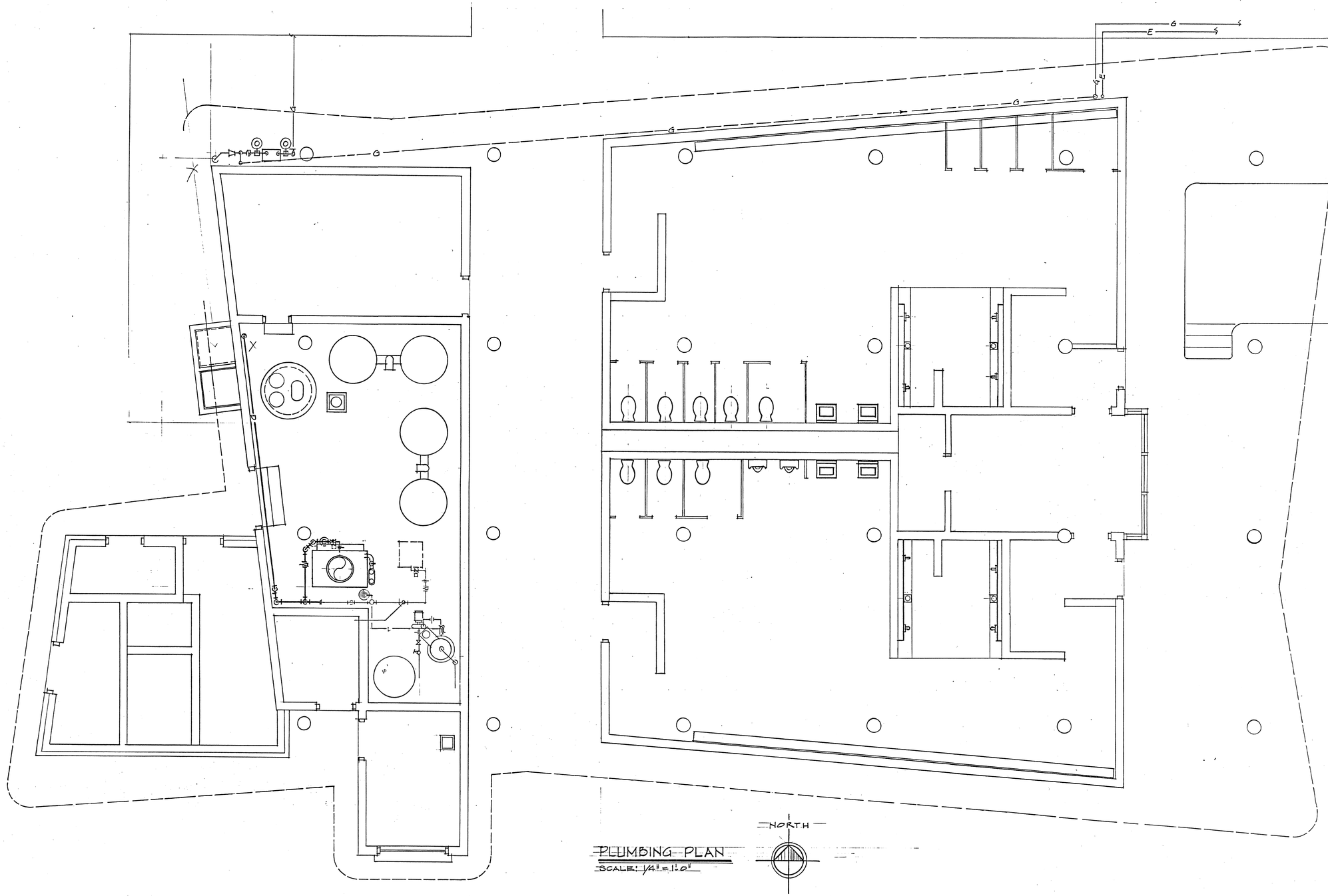
of



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

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Swimming Pool Schematic Flow Diagram

Project No.
Drawn
Checked
Date APR 16 1993
Revisions

RG-P4

of

Rio Grande Demolition Plan

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

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Renovation of Sunport Pool and Rio Grande Pool

City of Albuquerque Parks and General Services Department
Aquatics & Special Programs, Cultural and Recreational Services Department

Rio Grande Pool - Electrical Demolition

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