

LUFKIN SWIMMING POOL RENOVATION

VILLAGE OF VILLA PARK, ILLINOIS
DEPARTMENT OF PARKS AND RECREATION

PREPARED JUNE 22, 1998

CONSULTANTS

Leisure
CONCEPTS & DESIGN

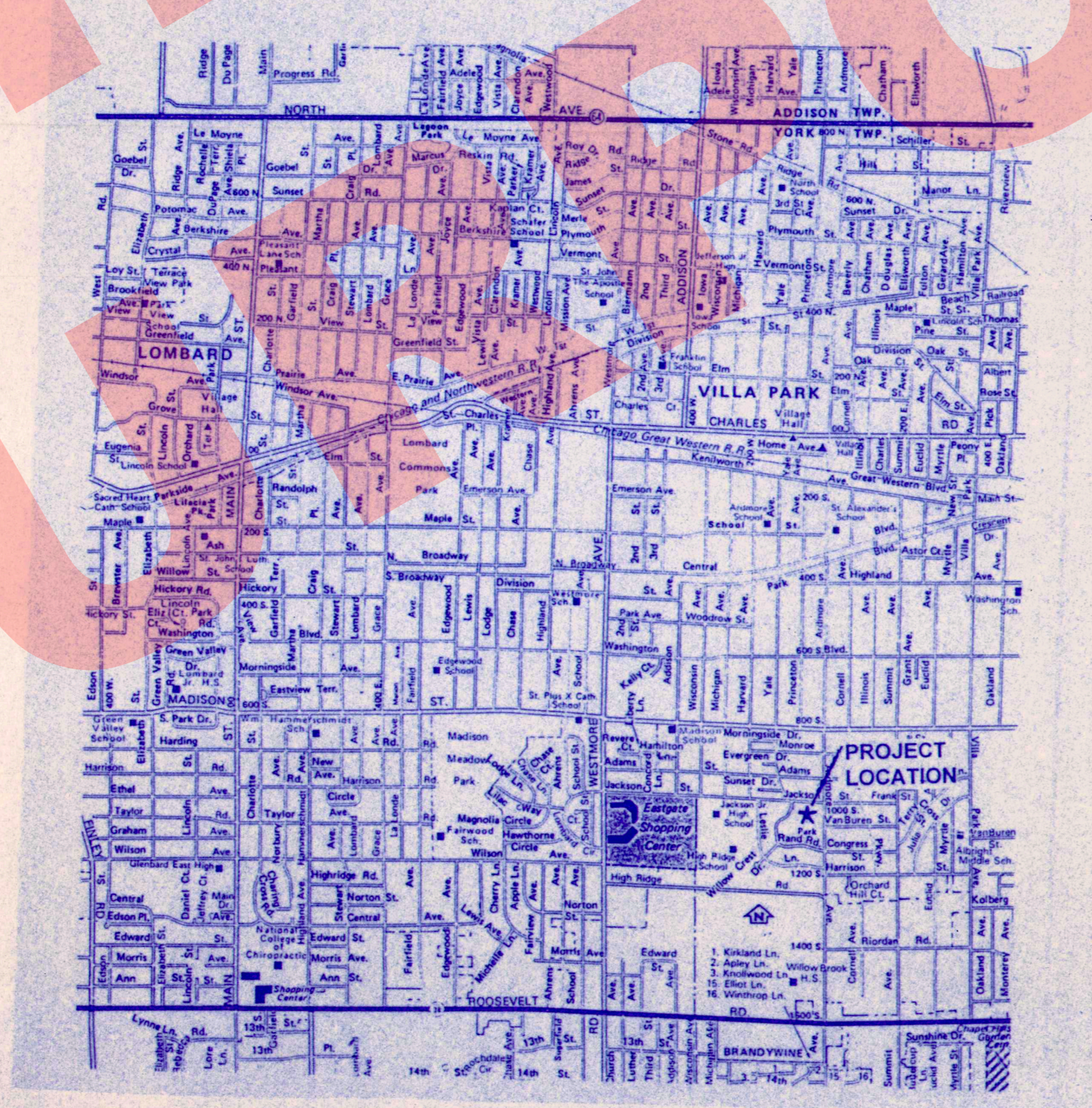
601 WEST GOLF ROAD, STE. 204,
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LOCATION MAP



SHEET INDEX

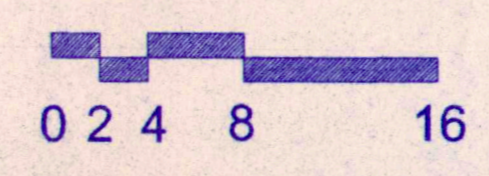
EX-1	EXISTING CONDITIONS
D1.0	POOL DEMOLITION
D2.0	SITE DEMOLITION
SD1.0	PROJECT COORDINATES
SD2.0	DECK GRADES
SD3.0	BARRIERS & FENCES
SD4.0	SITE FURNISHINGS
SD5.0	LANDSCAPE RESTORATION
SD6.0	SITE DETAILS
SD7.0	SITE DETAILS
PL1.0	PVC LINER
PL2.0	POOL DETAILS

VILLA PARK

LUFKIN POOL



THE PURPOSE OF THIS SURVEY IS TO REFLECT EXISTING CONDITIONS AT SURFACE LEVEL. FOR SUB-SURFACE UTILITY LINES REFER TO ORIGINAL DESIGN DRAWINGS AND CONTACT VILLA PARK DEPARTMENT OF PARKS AND RECREATION.



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LUFKIN SWIMMING POOL RENOVATION

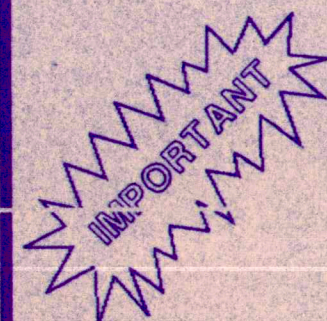
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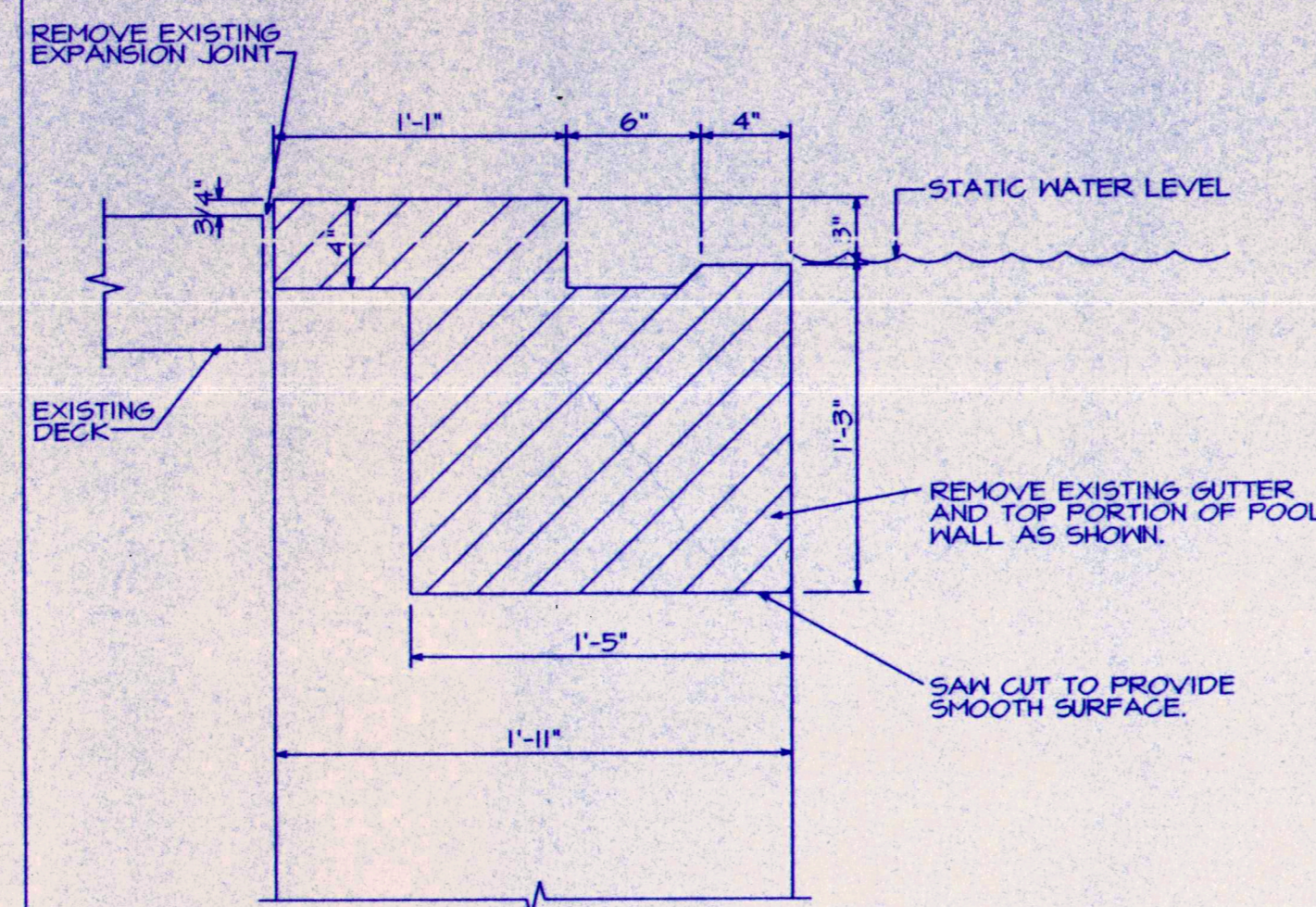
The Contractor shall verify all dimensions on the job site and notify the project designer of any variation before construction.

DATE	REVISION

DRAWN: DJG
CHECKED: _____
APPROVED: _____
DATE: 6/22/98
JOB NO: 98009.0
SHEET TITLE: EXISTING CONDITIONS
SHEET NO: **EX - 1**



IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING TO DETERMINE EXISTING CONDITIONS.



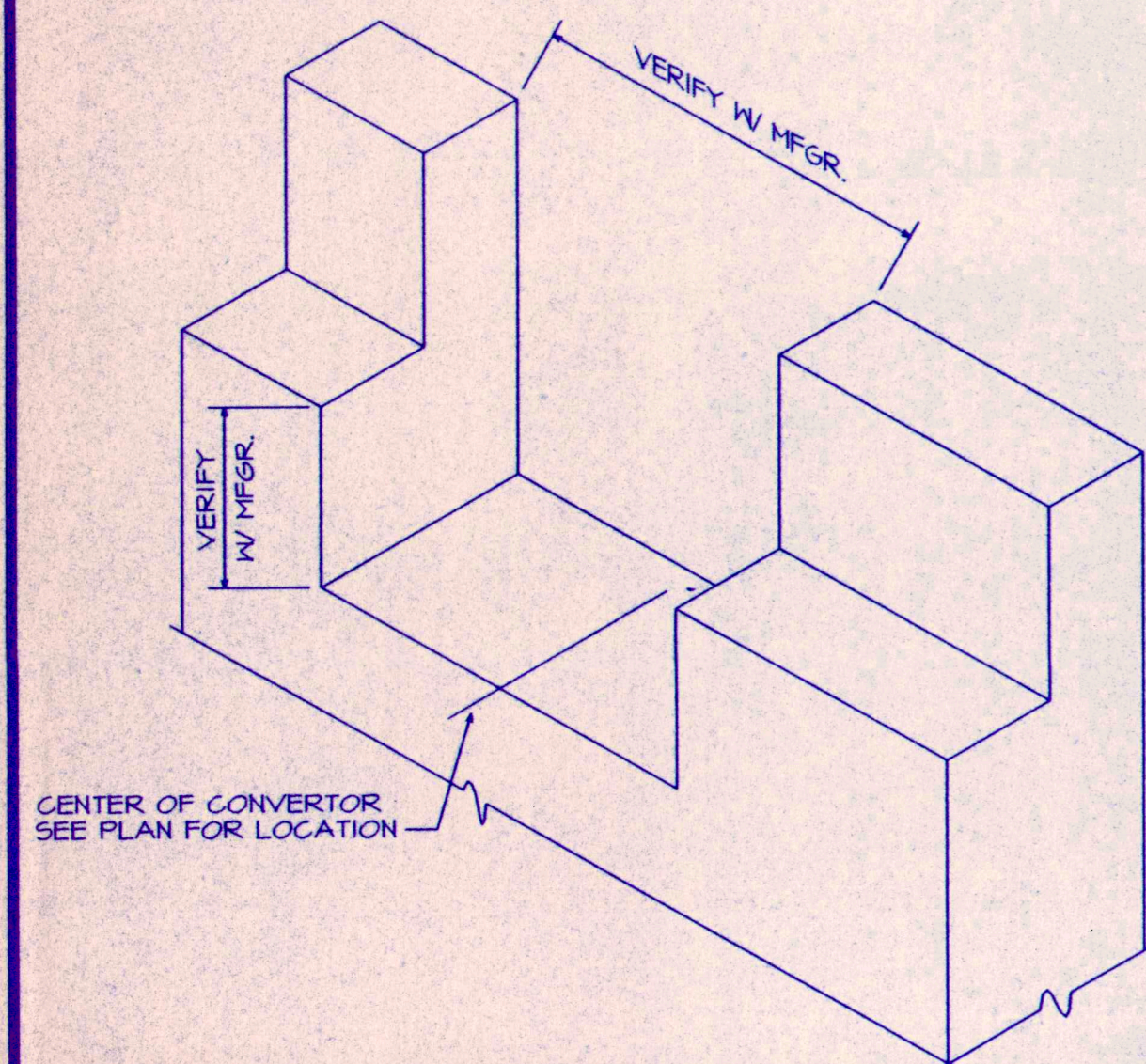
GENERAL NOTES

D1.0-2

SEMI-RECESSED S.S. GUTTER DETAIL

D1.0-3

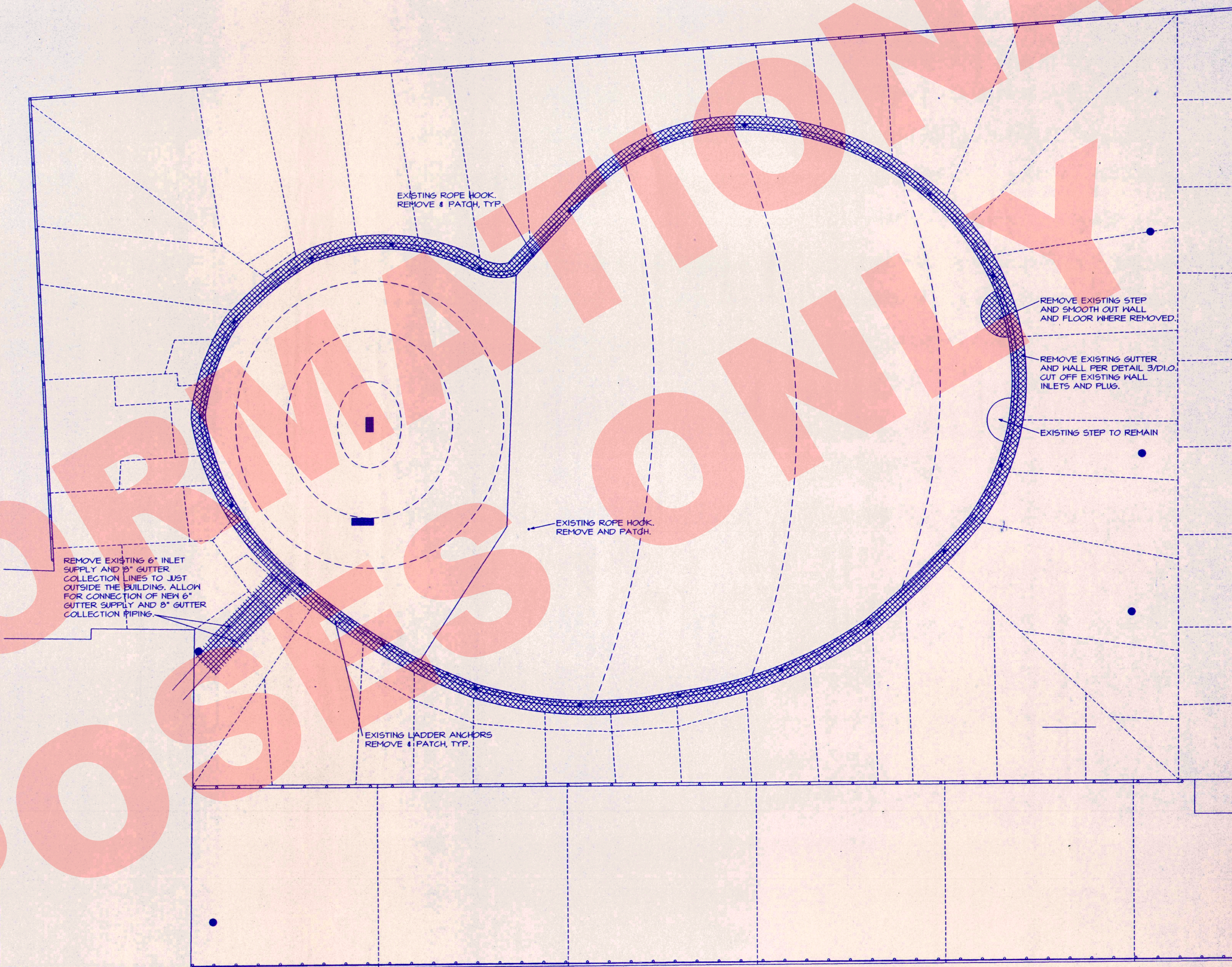
SCALE: 3/4"=1'-0"



CUT OUT FOR GUTTER COLLECTOR/CONVERTOR

D1.0-4

SCALE: NONE



POOL DEMOLITION PLAN

D1.0-1

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

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POOL RENOVATION
VILLAGE OF VILLA PARK, ILLINOIS

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CHECKED: RSK
APPROVED:
DATE: 6/22/98
JOB NO.: 98009.0
SHEET TITLE: POOL DEMOLITION PLAN
SHEET NO.: D1.0

D1.0

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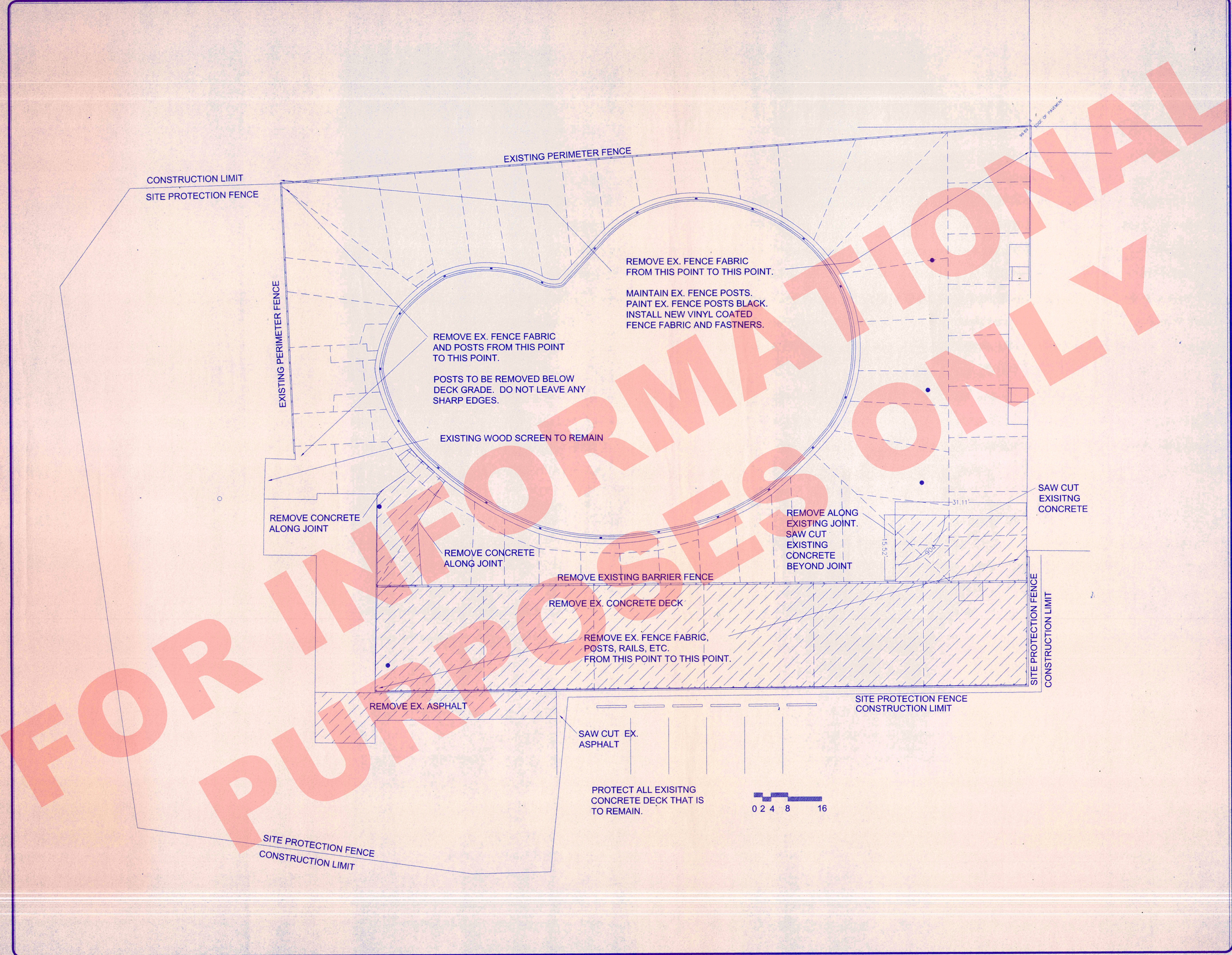
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DATE OF PLOT: TIME OF PLOT: CURRENT PATH: EDIT TIME:
MODEL / PAPER SPACE CAD OPERATOR: CURRENT NAME:

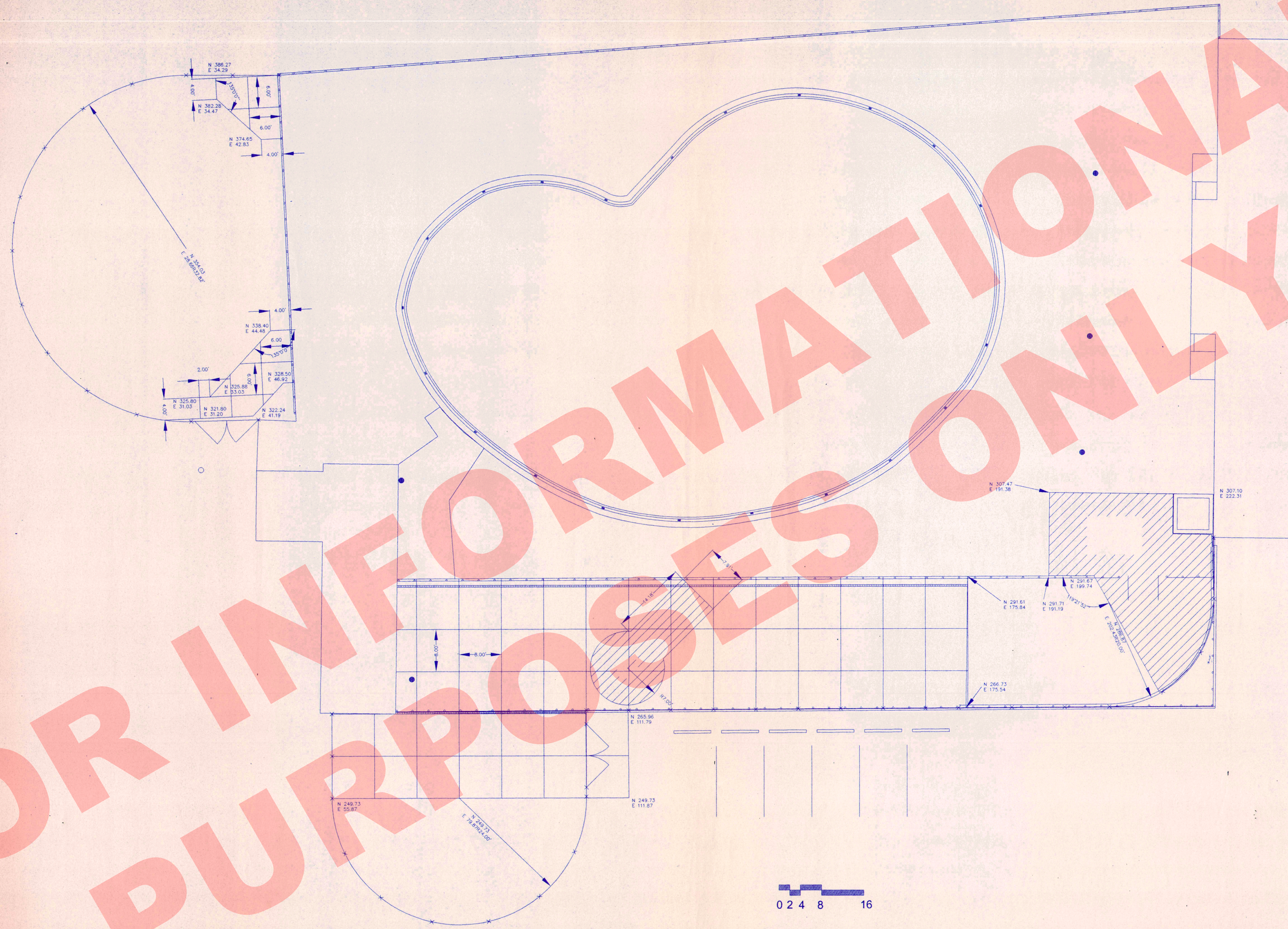
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SHEET TITLE	SITE
SHEET NO.	DEMOLITION
D2.0	



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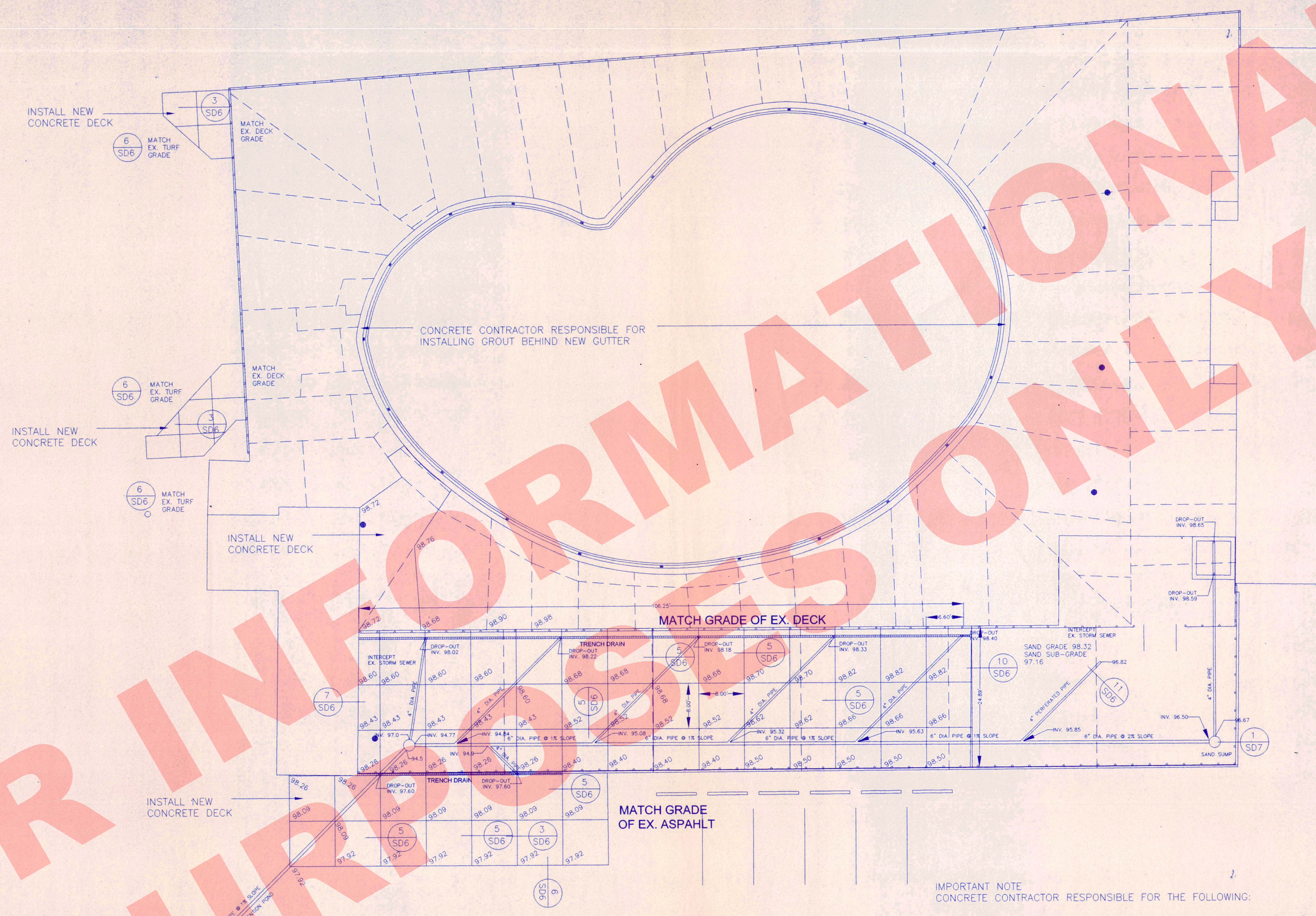
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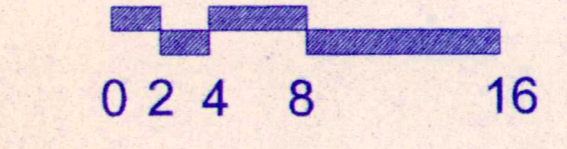
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APPROVED	
DATE	6/22/98
JOB NO.	98009.0
SHEET TITLE	PROJECT COORDINATES
SHEET NO.	SD1.0

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IMPORTANT NOTE
 CONCRETE CONTRACTOR RESPONSIBLE FOR THE FOLLOWING:
 ALL WELDED WIRE MESH AND ANY OTHER METALLIC ITEMS
 EMBEDDED IN THE CONCRETE DECKS SHALL BE ELECTRICALLY
 BONDED AND GROUNDED PER THE REQUIREMENTS OF THE
 NATIONAL ELECTRIC CODE, MOST RECENT EDITION.



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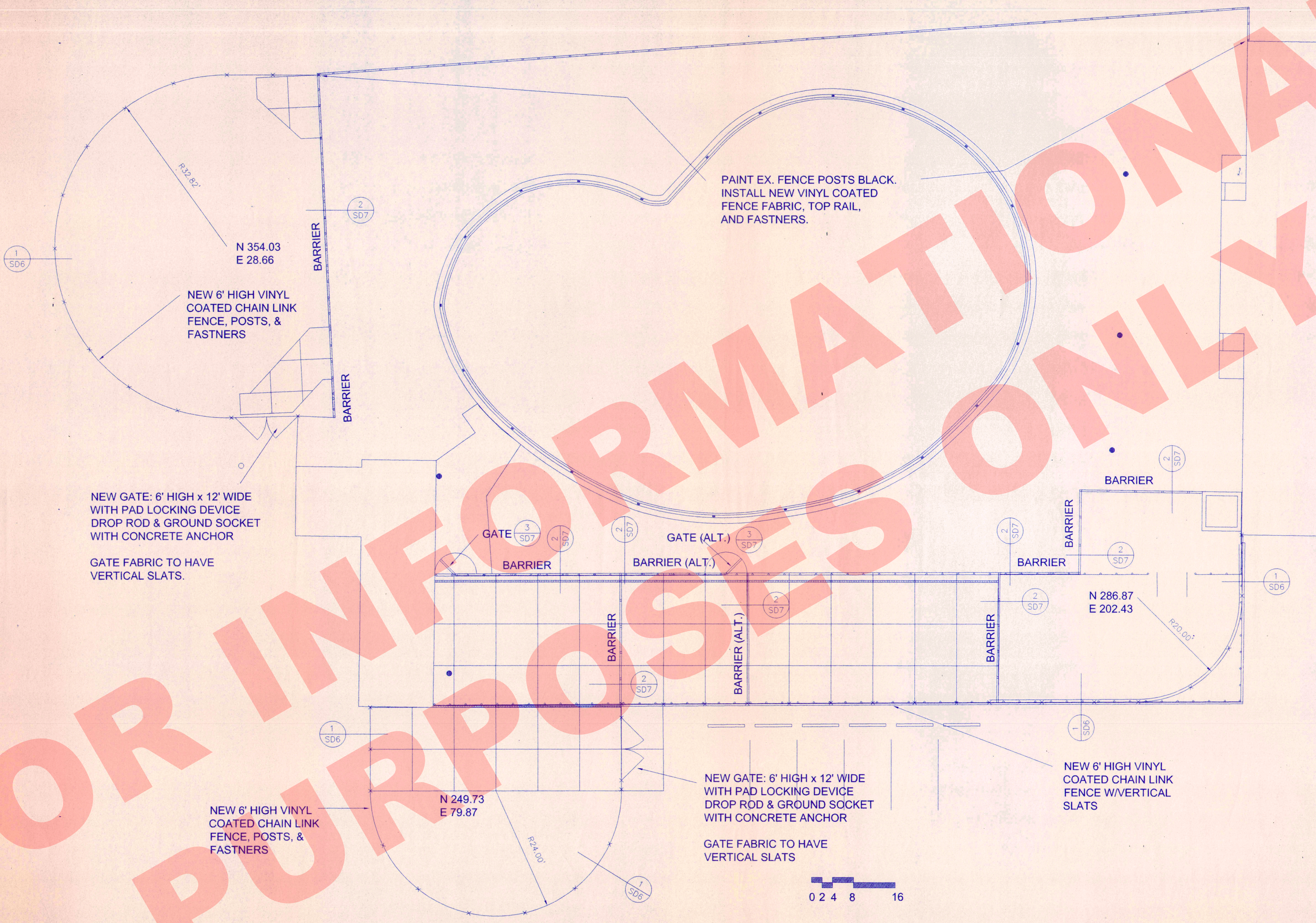
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SHEET TITLE	
DECK GRADES	
SHEET NO.	SD2.0

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PAINT EX. FENCE POSTS BLACK.
INSTALL NEW VINYL COATED
FENCE FABRIC, TOP RAIL,
AND FASTNERS.

NEW 6' HIGH VINYL
COATED CHAIN LINK
FENCE, POSTS, &
FASTNERS

NEW GATE: 6' HIGH x 12' WIDE
WITH PAD LOCKING DEVICE
DROP ROD & GROUND SOCKET
WITH CONCRETE ANCHOR

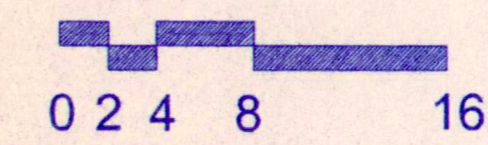
GATE FABRIC TO HAVE
VERTICAL SLATS.

NEW 6' HIGH VINYL
COATED CHAIN LINK
FENCE, POSTS, &
FASTNERS

NEW GATE: 6' HIGH x 12' WIDE
WITH PAD LOCKING DEVICE
DROP ROD & GROUND SOCKET
WITH CONCRETE ANCHOR

GATE FABRIC TO HAVE
VERTICAL SLATS

NEW 6' HIGH VINYL
COATED CHAIN LINK
FENCE W/VERTICAL
SLATS



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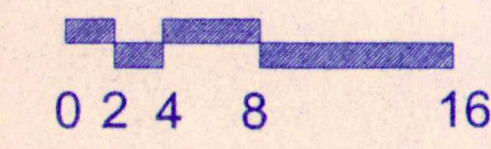
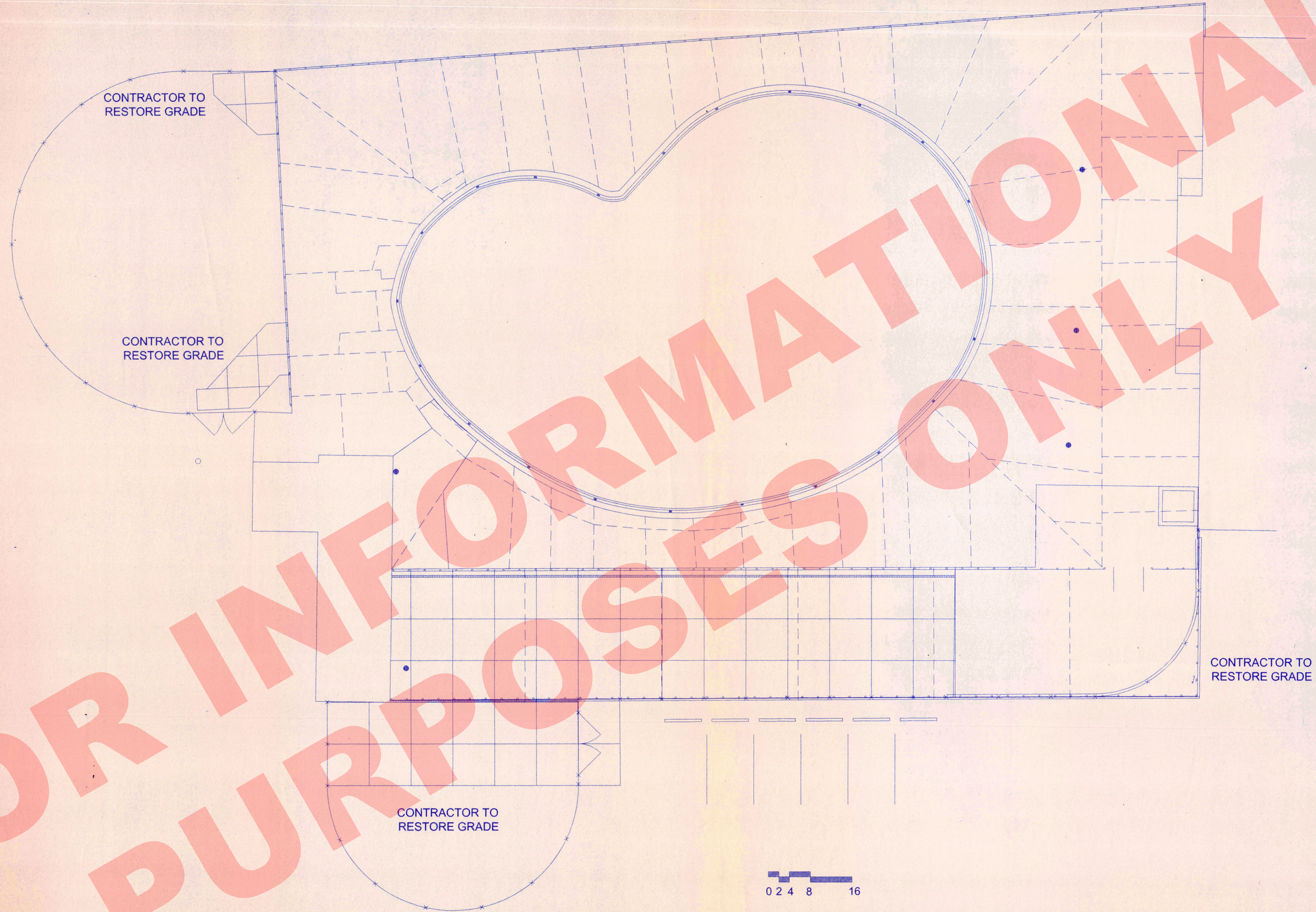
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SHEET TITLE	
BARRIERS & FENCES	
SHEET NO.	
SD3.0	

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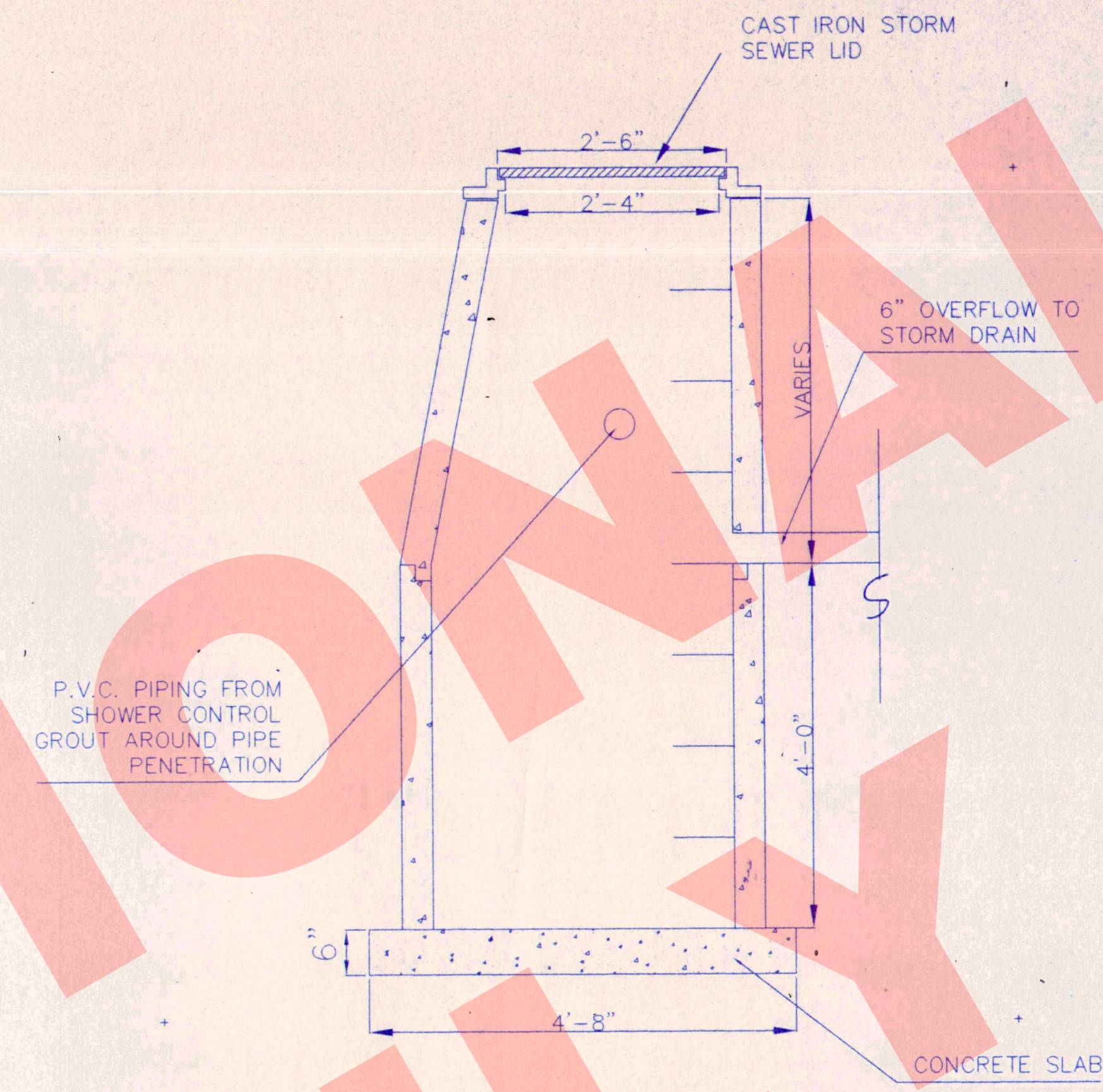
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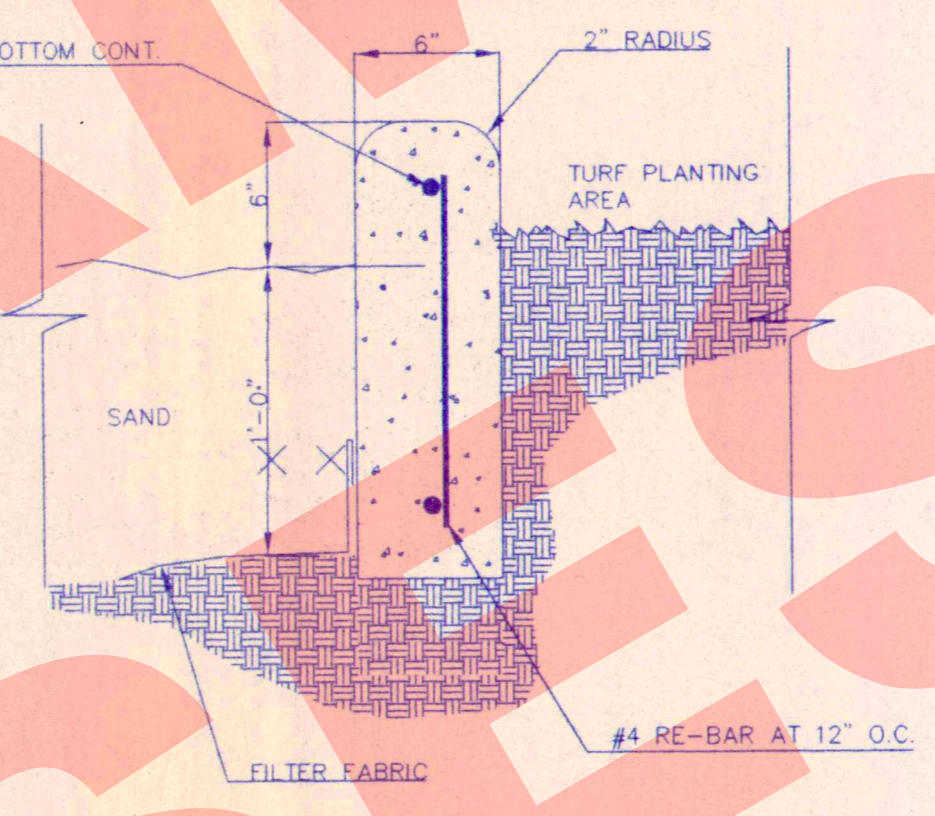
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APPROVED
DATE 6/22/98
JOB NO. 98009.0
SHEET TITLE
LANDSCAPE
RESTORATION
SHEET NO.
SD5.0

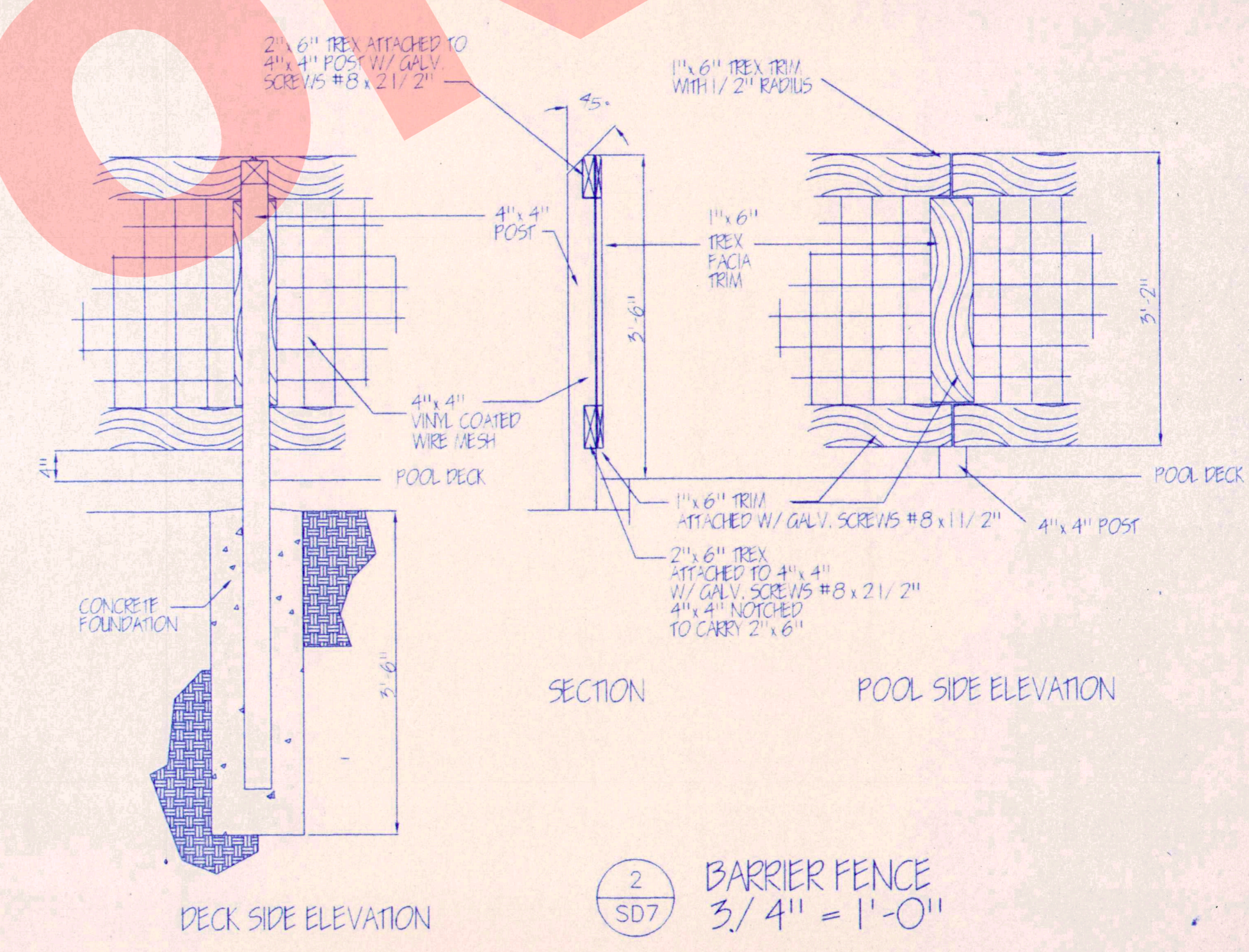
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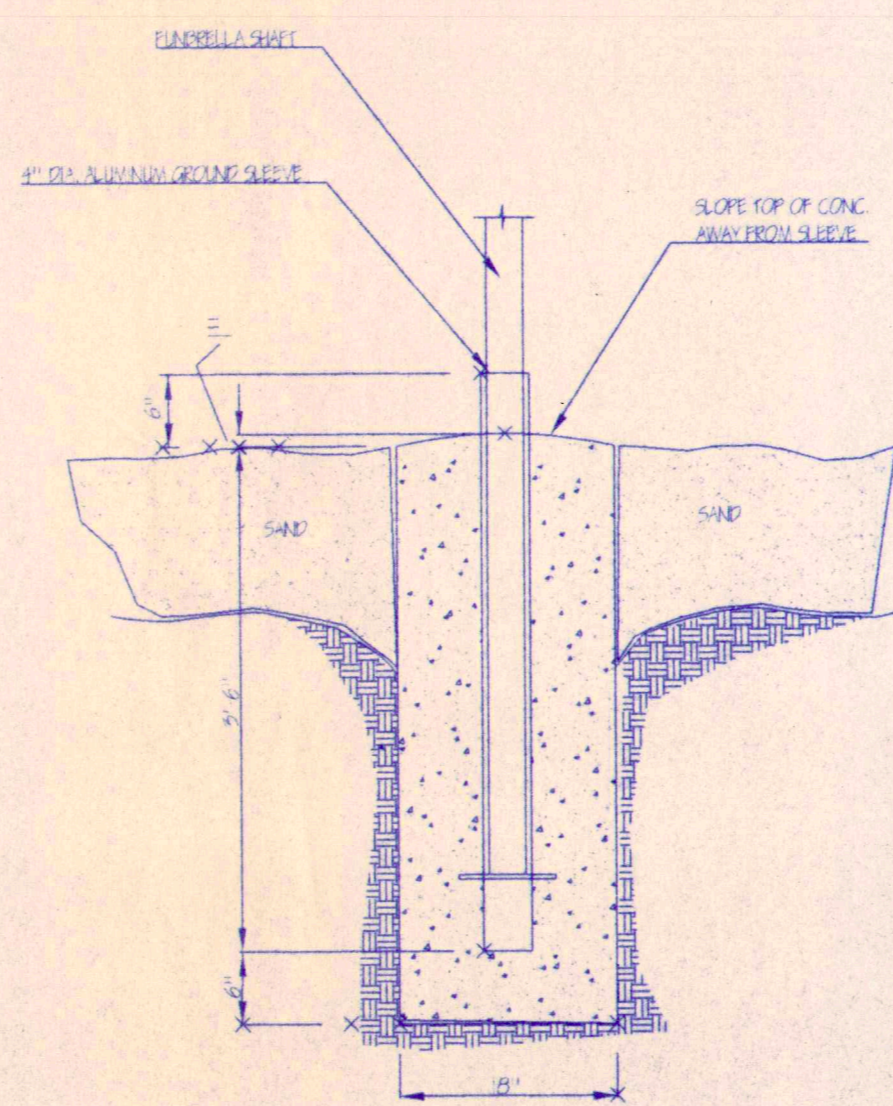
1 SD7 SAND SUMP DETAIL



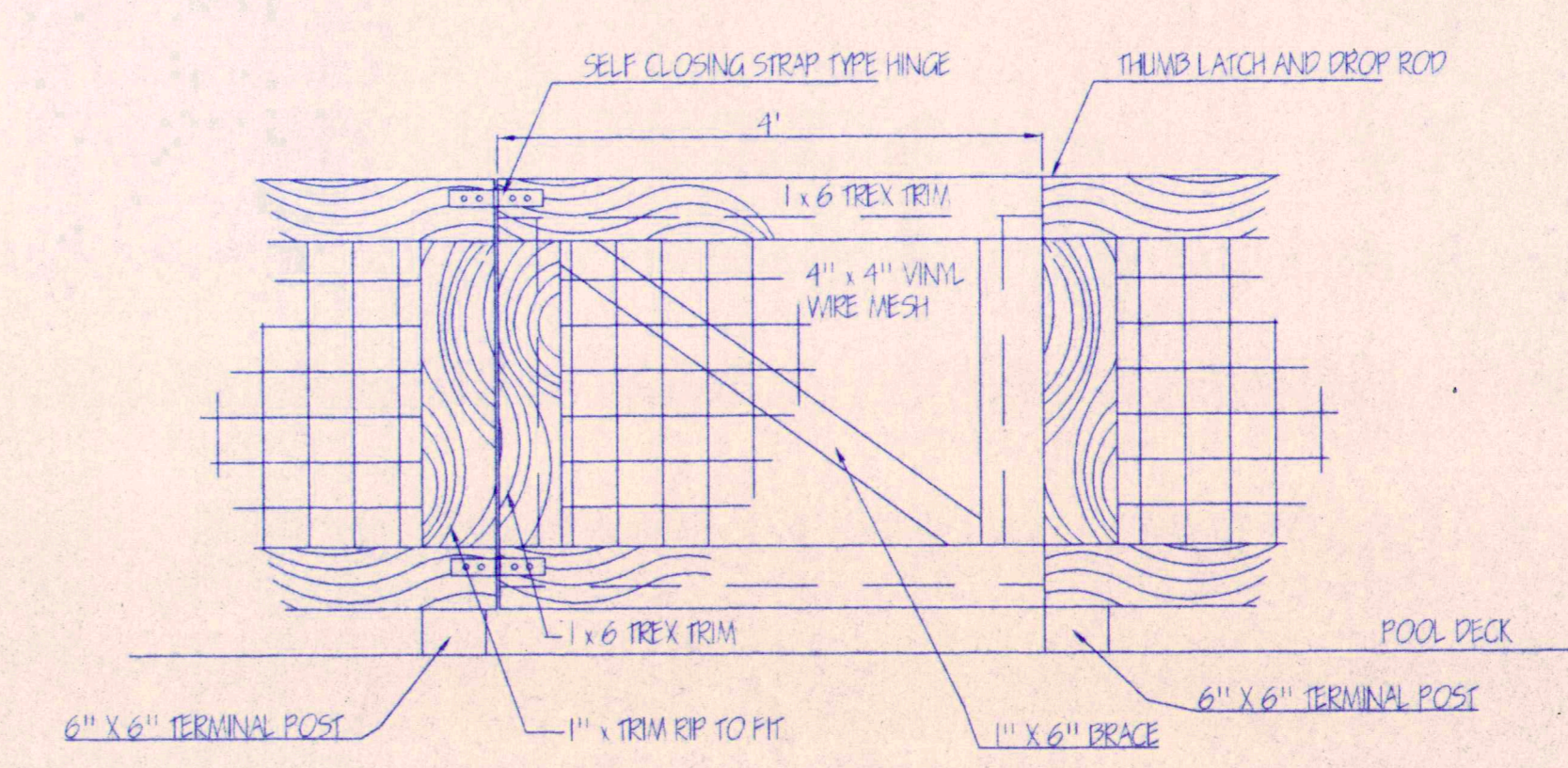
5 SD7 CONCRETE CURB DETAIL



2 SD7 BARRIER FENCE
3/4" = 1'-0"



4 SD7 FUNBRELLA IN SAND



3 SD7 BARRIER GATE
3/4" = 1'-0"

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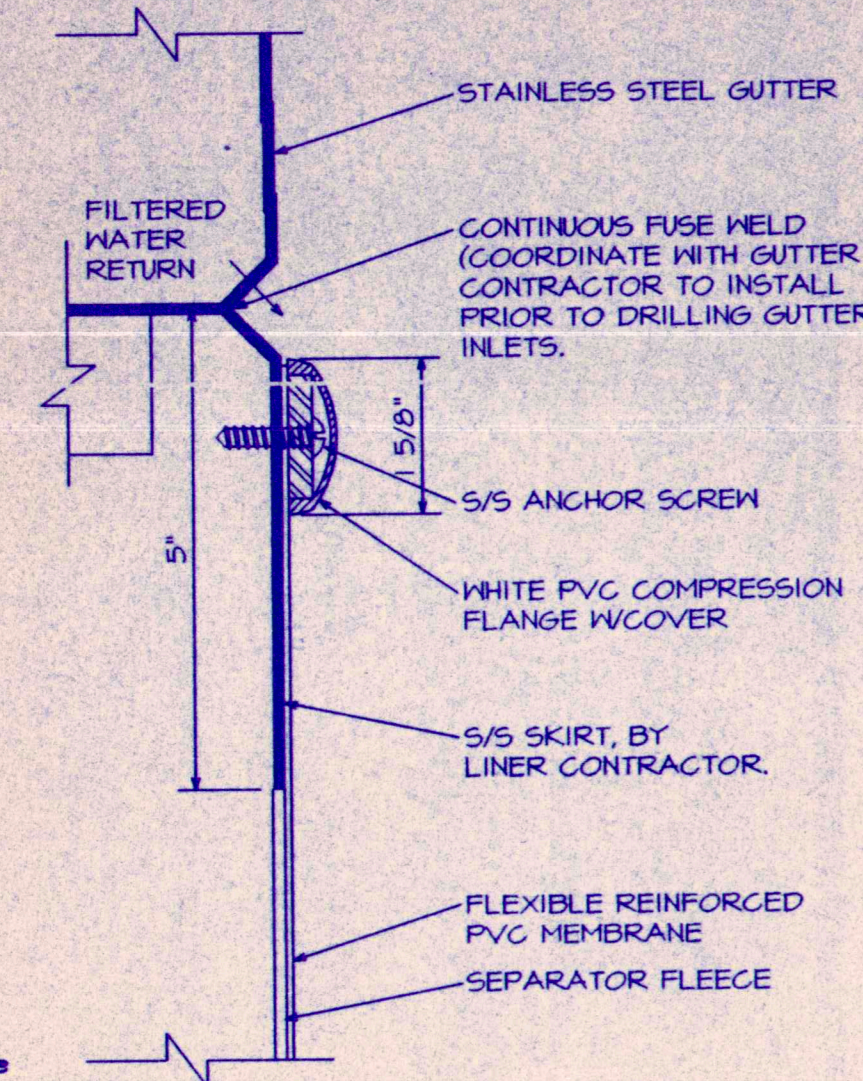
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SHEET TITLE	
SITE DETAILS	
SHEET NO.	
SD7.0	

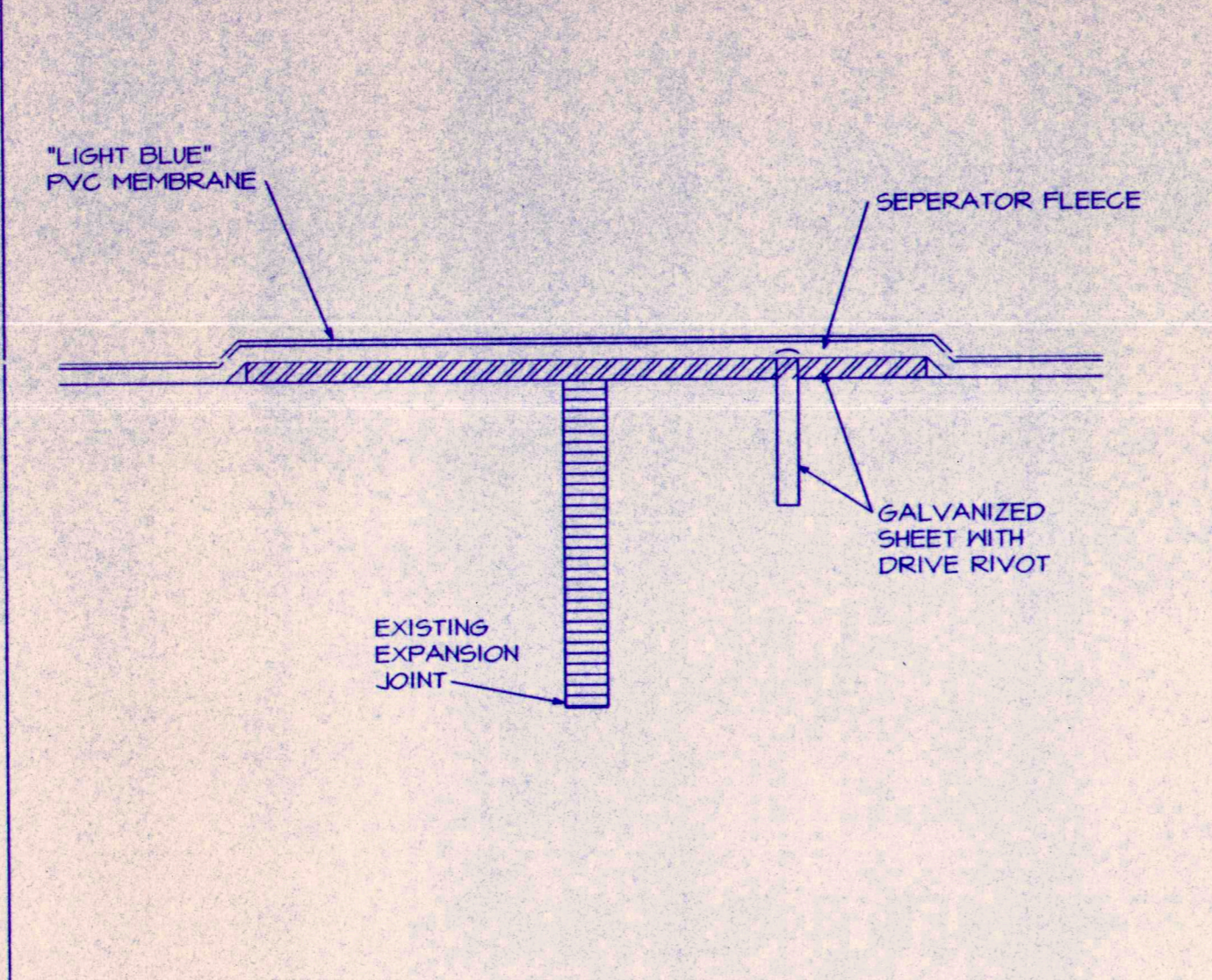
The PVC membrane shall be terminated below normal pool water level via the use of a 1/2 gauge T-304 stainless steel compression skirt which shall be continuously welded to the stainless steel gutter system. The compression skirt shall be fabricated as detailed and shall provide a uniform, smooth surface under which the membrane shall be compressed. The PVC membrane material and a silicone impregnated sponge gasket shall be compressed between a rigid PVC profile and the stainless steel compression skirt through the installation of 1/4-20 stainless steel screws located no greater than 3" O.C. around the entire pool perimeter. A semi-rigid PVC interlocking cover strip shall be furnished and installed over the completed termination to cover fasteners and to provide a smooth and uninterrupted surface. Only those systems utilizing a stainless steel compression skirt continuously welded to the stainless steel gutter system will be acceptable.



MEMBRANE TERMINATION DETAIL

PL1.0-2

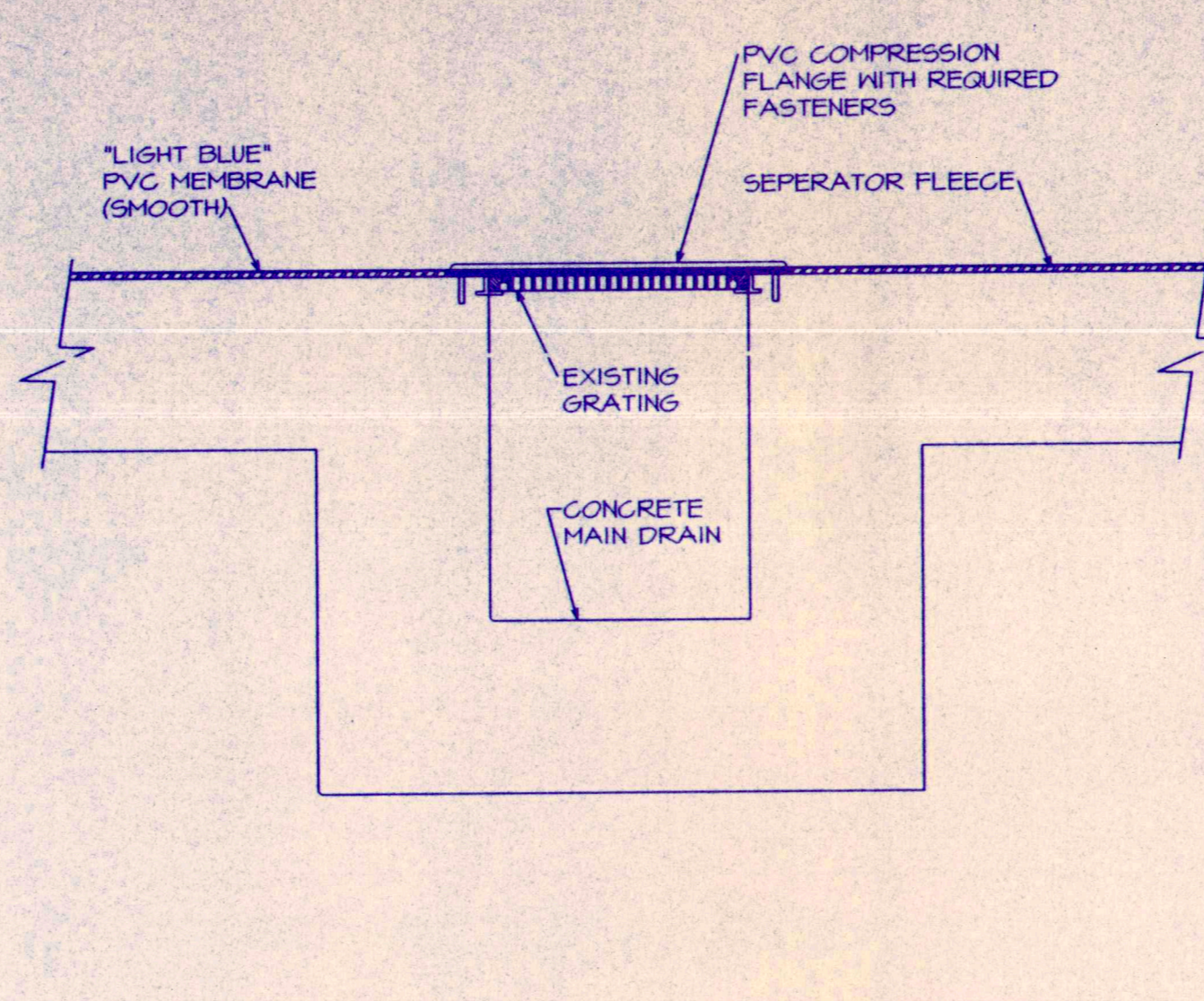
SCALE: NONE



TYPICAL EXPANSION JOINT

PL1.0-3

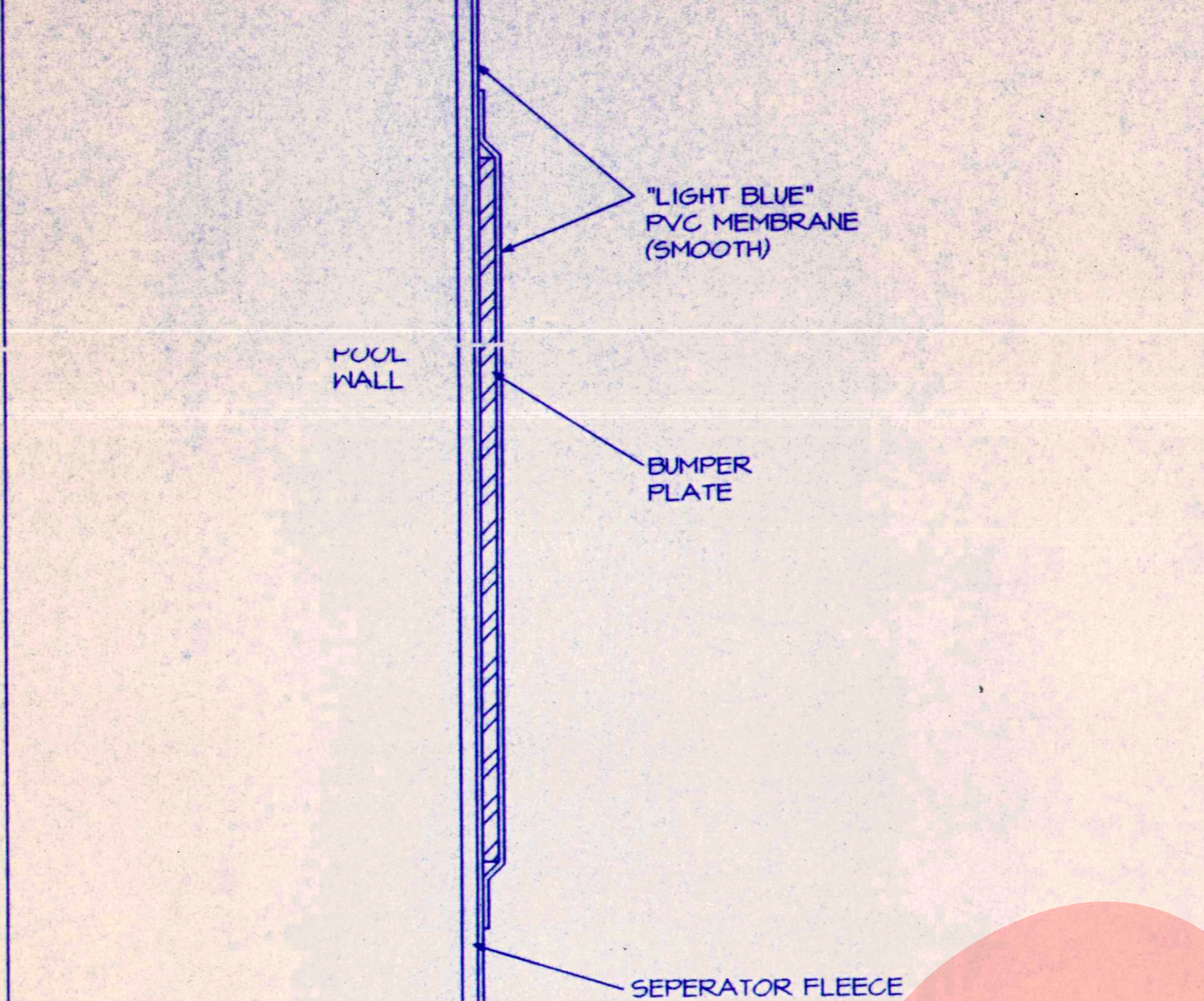
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TYPICAL MAIN DRAIN

PL1.0-4

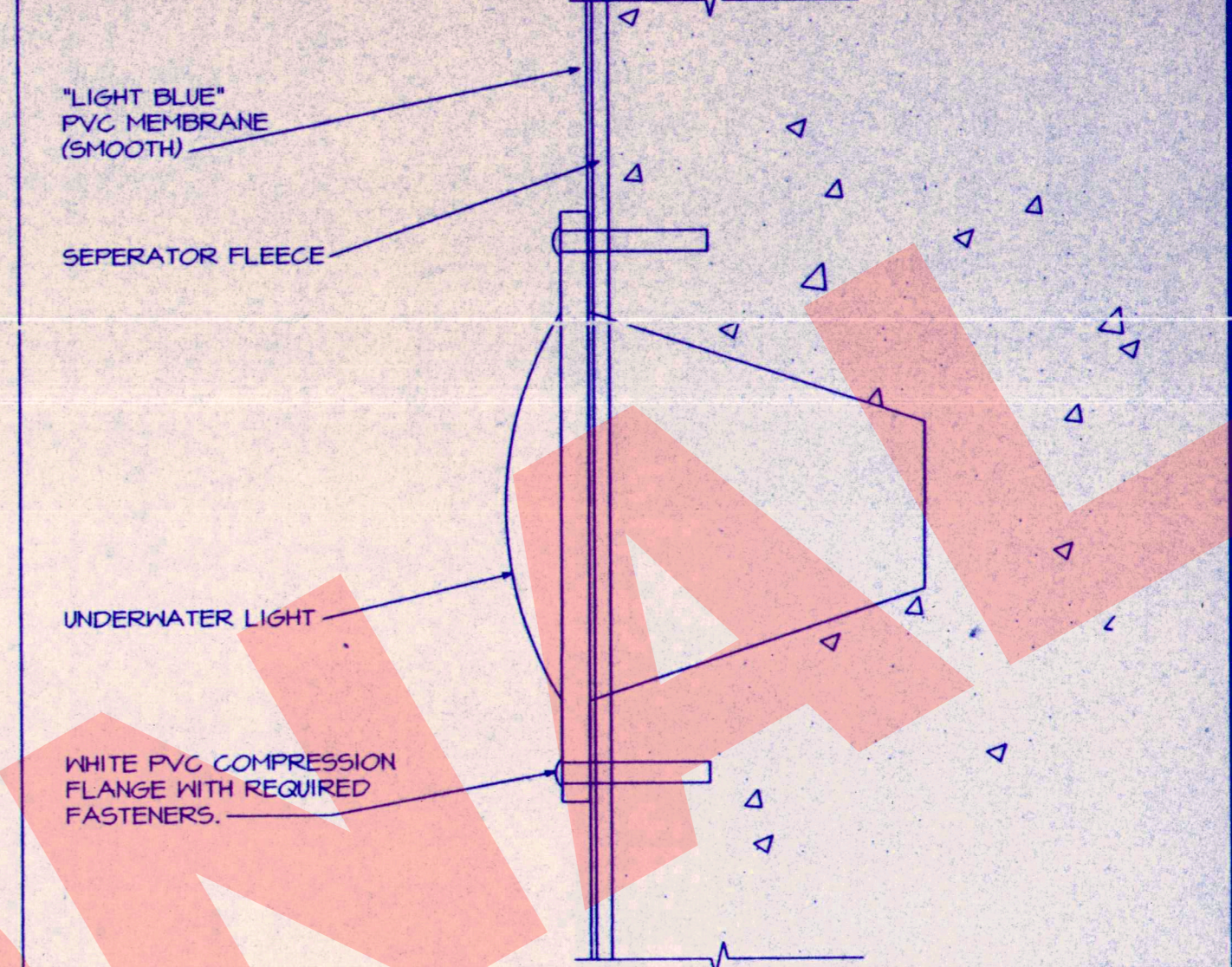
SCALE: NONE



TYPICAL LADDER BUMPER PLATE

PL1.0-5

SCALE: NONE



TYPICAL UNDERWATER LIGHT

PL1.0-6

SCALE: NONE

1	1'6"
2	2'0"
3	3'0"
4	4'0"
5	5'0"
6	11'6"

DEPTH MARKER KEY

PL1.0-7

SCALE: NONE

IT IS THE RESPONSIBILITY OF THE POOL LINER CONTRACTOR TO PREPARE THE SURFACE OF THE POOL PER MANUFACTURER'S SPECIFICATIONS BEFORE INSTALLATION OF THE POOL LINER. IT IS ALSO THE POOL LINER CONTRACTOR'S RESPONSIBILITY TO VISIT THE SITE PRIOR TO BIDDING TO DETERMINE THE EXTENT OF SURFACE PREPERATION. POOL LINER CONTRACTOR SHALL VERIFY ALL LOCATIONS OF POOL EQUIPMENT AND OPENINGS.

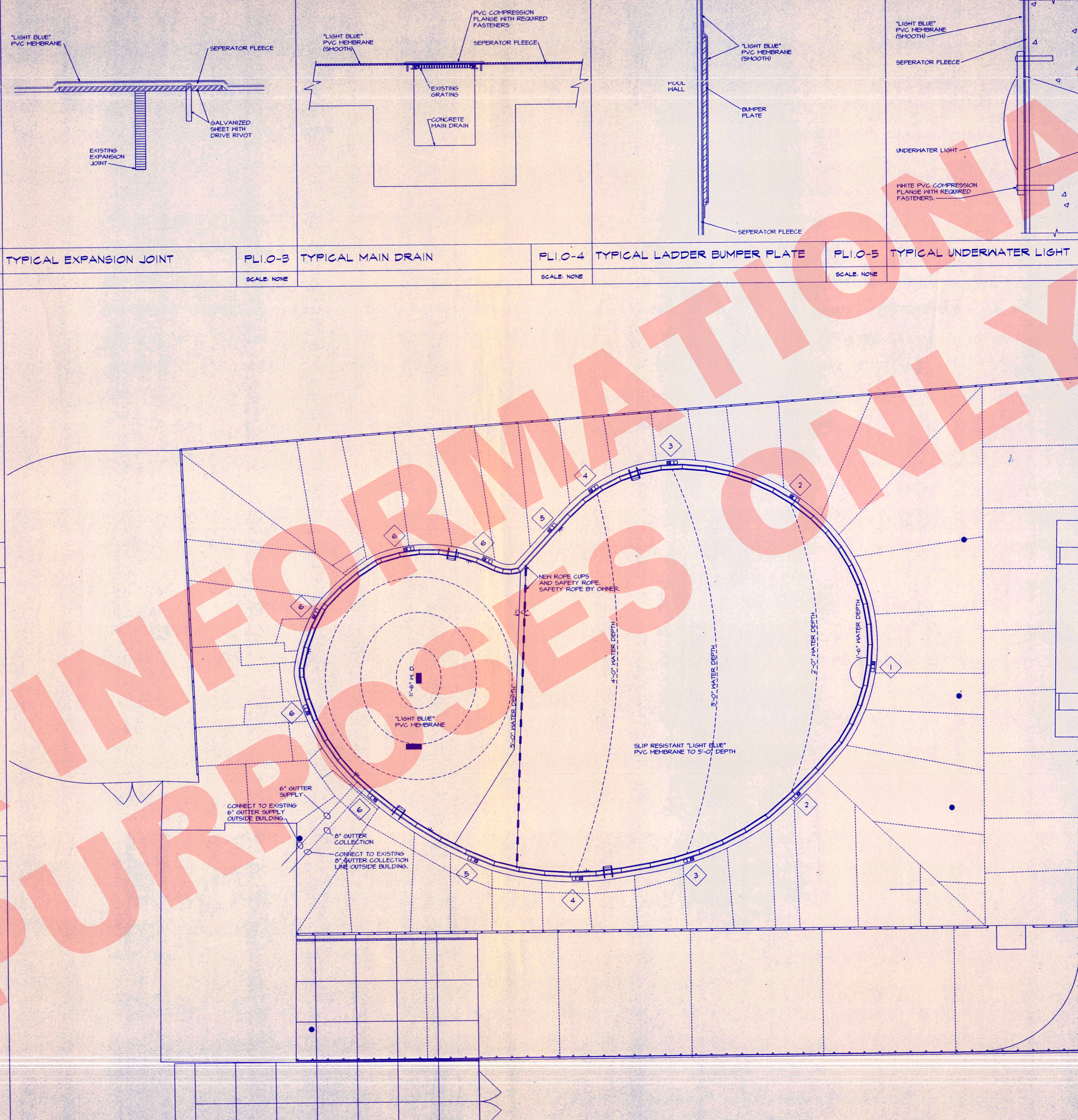
GENERAL NOTES

PL1.0-8

SURFACE AREA:	6,325 SQ. FT.
VOLUME (INCLUDING SURGE):	224,185 GALLONS
TURNOVER:	6 HOURS
RECIRCULATION RATE:	623 GPM

EXISTING POOL DATA

PL1.0-9



POOL LINER & GUTTER RENOVATION PLAN

PL1.0-1

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

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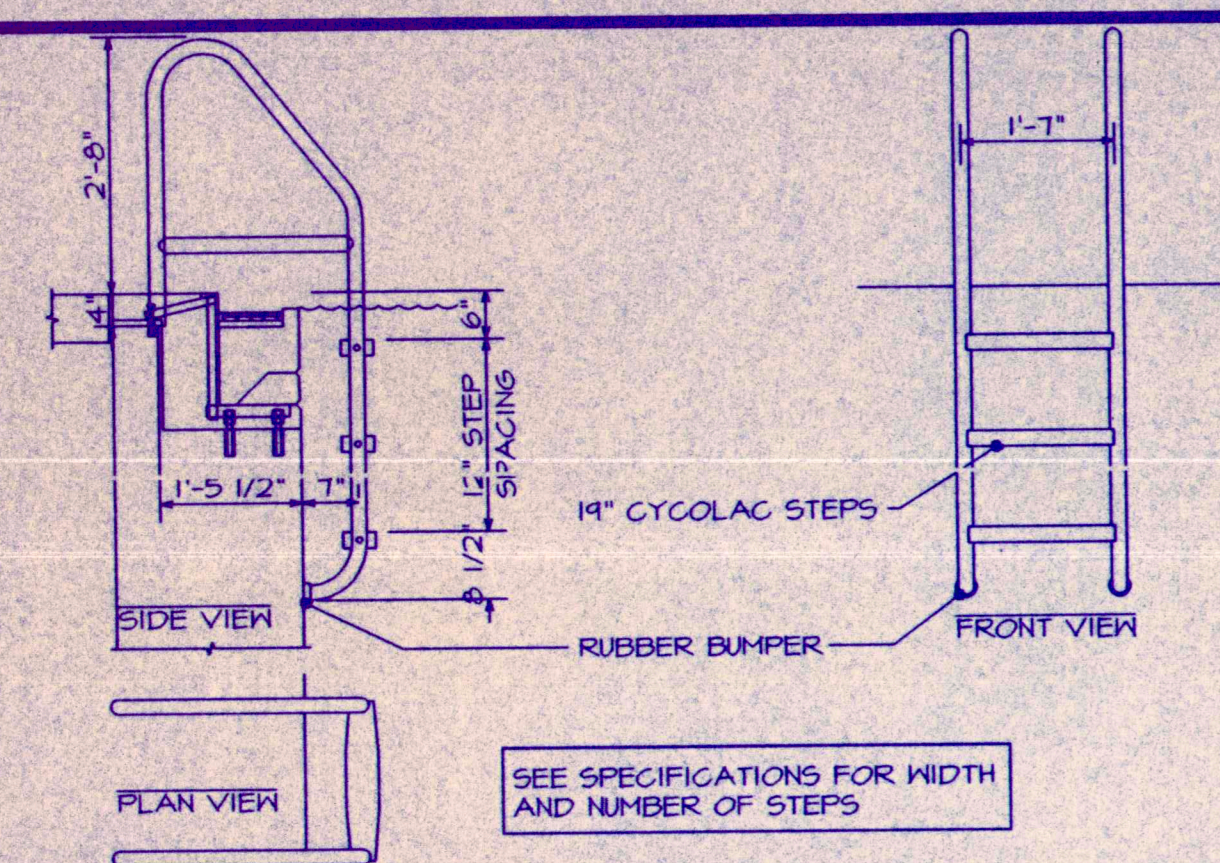
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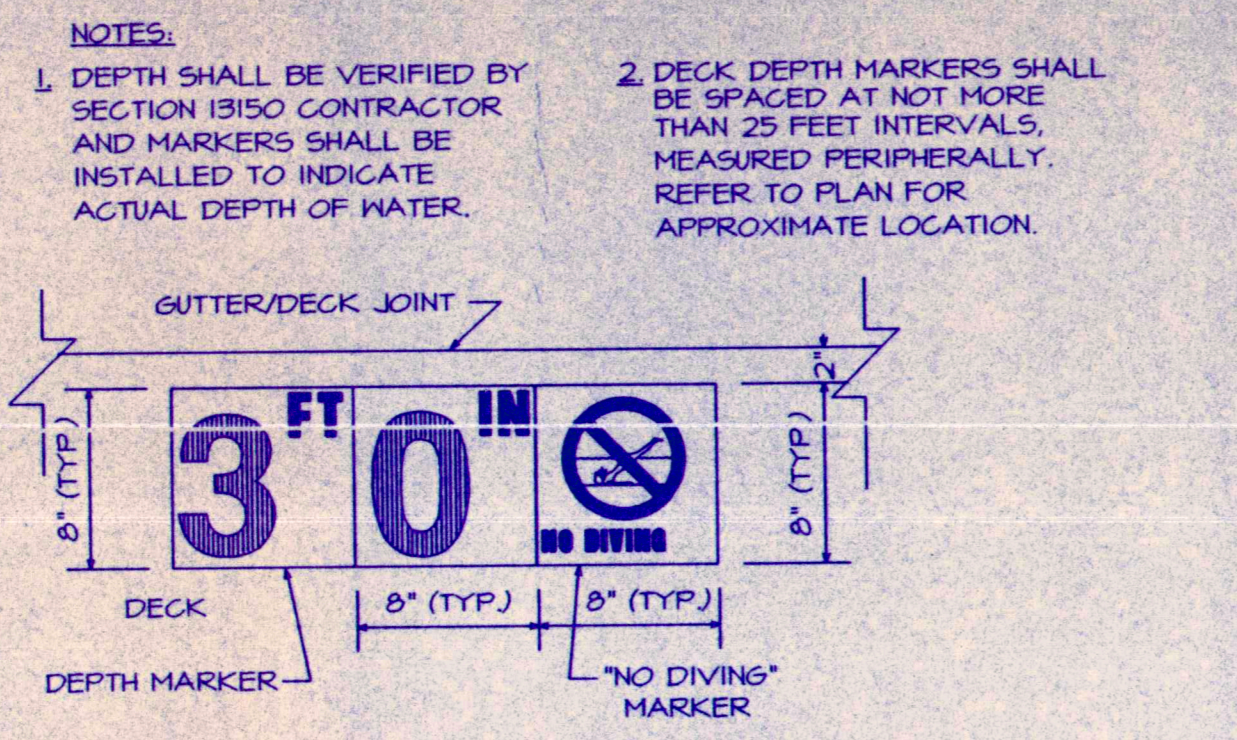
DATE	REVISION

DRAWN: RML
 CHECKED: RSK
 APPROVED: [Signature]
 DATE: 6/22/98
 JOB NO.: 98009.0
 SHEET TITLE: NEW PVC LINER PLAN & DETAILS
 SHEET NO.: PL1.0

DATE OF PLOT: TIME OF PLOT: CURRENT PATH: CURRENT NAME: MODEL: PAPER SPACE: CAD OPER: EDIT TIME:

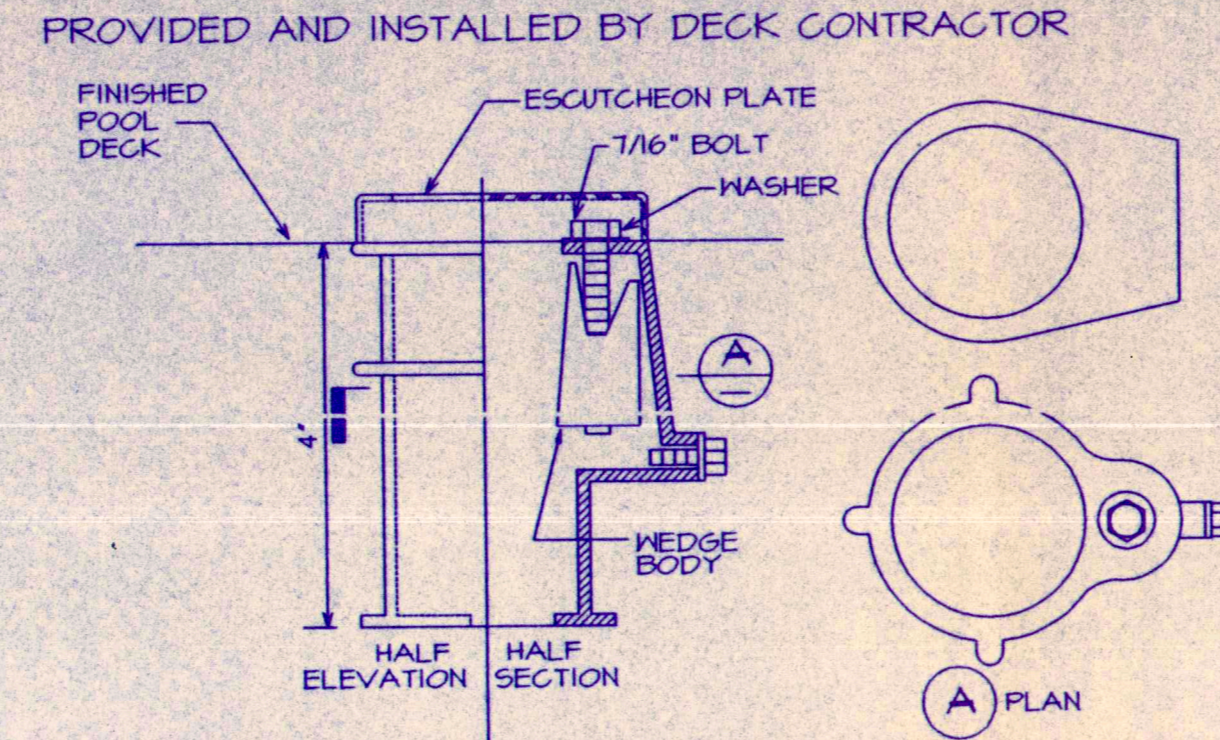


SPECIFICATIONS
Ladder frames shall be fabricated with smooth wrinkle-free bends. The pipe shall be 1300" O.D. x .025" wall thickness, Type 304, polished to 320 grit. Steps shall be of injection molded Cyclolac, 4" wide with raised non-skid tread. The ends of all steps shall be curved to fit the O.D. of the ladder frames. The bolts for attaching the ladder steps shall have smooth rounded heads and the underside of the head shall be curved to fit the O.D. of the tubing. All ladders shall have white non-marking rubber bumpers at their lower ends. Cross braces shall be covered and welded to the ladder frames. Joints shall be cleaned and blended to match the finish of the pipe. As manufactured by Kiefer Pool Equip. Co. 806/323-4211



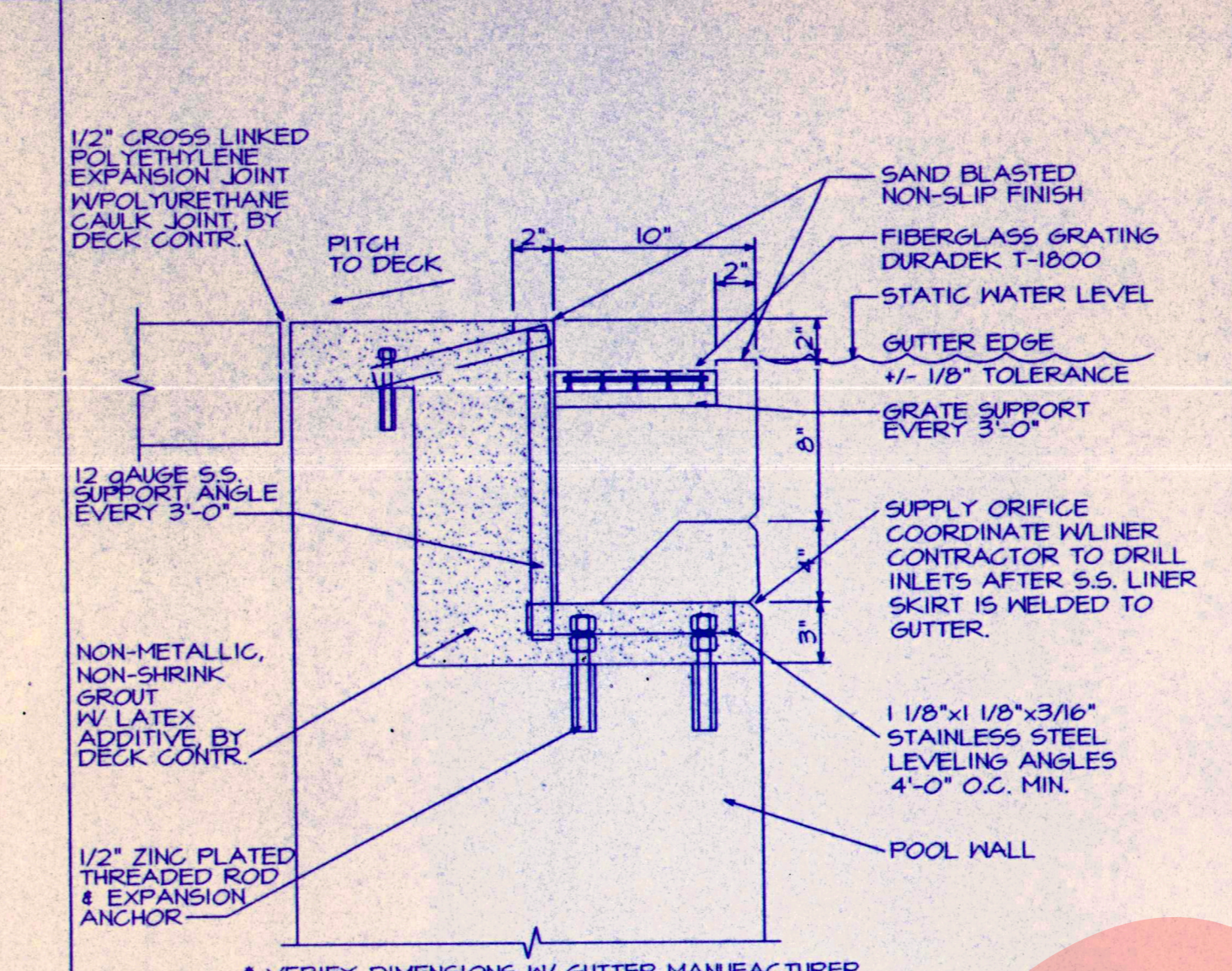
NOTES:
1. DEPTH SHALL BE VERIFIED BY SECTION 19150 CONTRACTOR AND MARKERS SHALL BE INSTALLED TO INDICATE ACTUAL DEPTH OF WATER.
2. DECK DEPTH MARKERS SHALL BE SPACED AT NOT MORE THAN 25 FEET INTERVALS, MEASURED PERIPHERALLY. REFER TO PLAN FOR APPROXIMATE LOCATION.

NOTE:
DECK DEPTH MARKERS SHALL BE 8"x8" WHITE NON-SLIP TILE W/1" HIGH BLACK NUMERALS & BLACK LETTERS.
"NO DIVING" MARKERS SHALL BE 8"x8" WHITE NON-SLIP TILE W/RED INTERNATIONAL "NO DIVING" SYMBOL & BLACK LETTERS.
"NO DIVING" & DEPTH MARKER TILES SHALL BE REGISTERED SO THAT THE FACE OF TILE IS FLUSH W/FINISHED SURFACE OF THE POOL DECK.

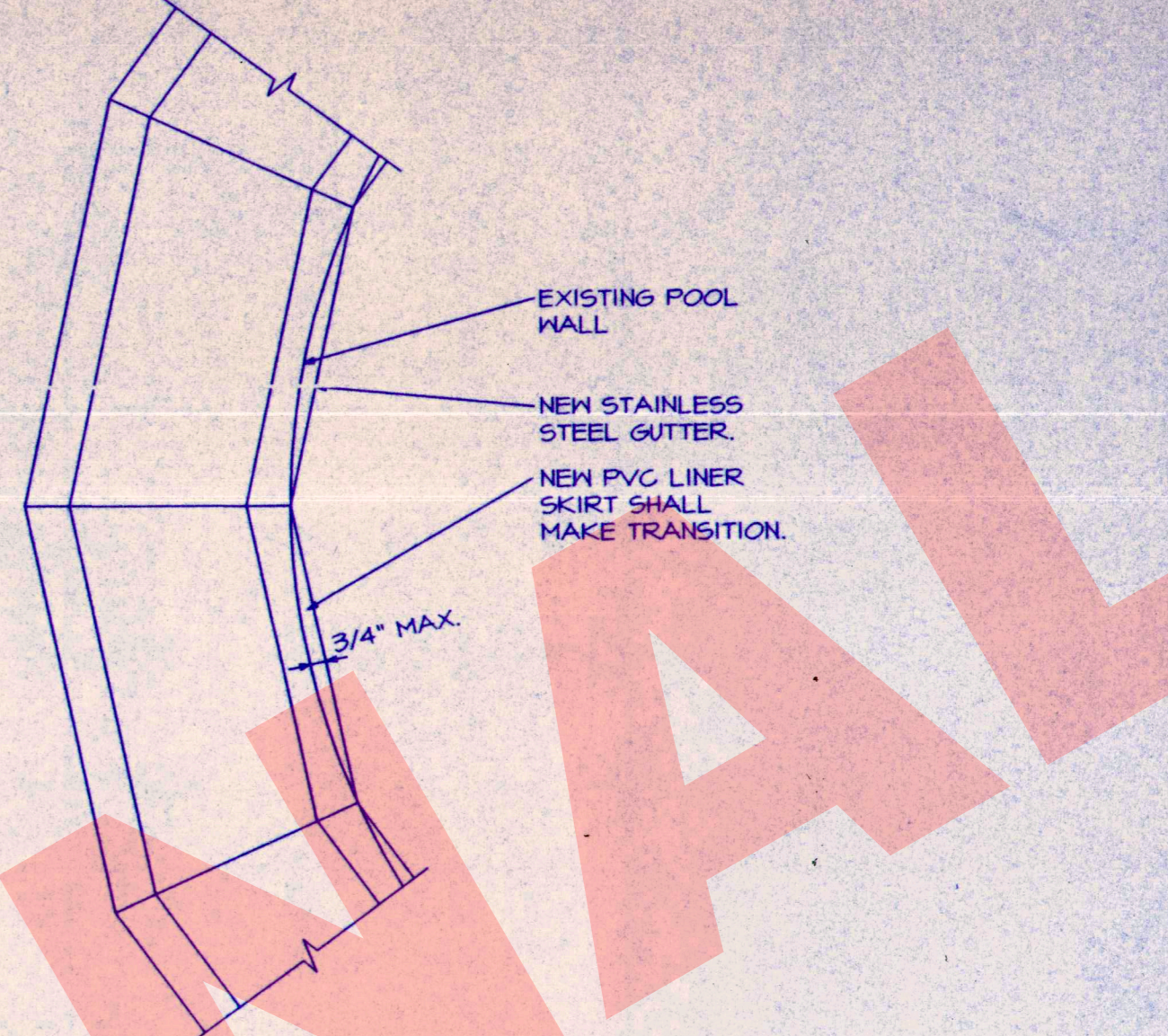


SPECIFICATIONS:
Body shall be of brass and shall be 4-1/4" long. It shall be made to receive 1300" O.D. pipe. Two longitudinal ridges, for prevention of sideways shall run full depth of the body on the I.D. The locking wedge shall be of cast bronze and the bolts shall be stainless steel.

ESCUTCHEON PLATE
Body shall be of stamped stainless steel with set screw. It shall be made to slip over a 1300" O.D. tubing.



ROLL-OUT S.S. GUTTER DETAIL
SCALE: 1/2"=1'-0"



NEW GUTTER OVERHANG DETAIL
SCALE: NONE

STAINLESS STEEL CROSS BRACED LADDER DETAIL

PL2.0-1 DEPTH MARKER @ POOL SIDE

PL2.0-2 DECK ANCHOR SOCKET DETAIL

PL2.0-3 ROLL-OUT S.S. GUTTER DETAIL

PL2.0-4 NEW GUTTER OVERHANG DETAIL

PL2.0-5

4. STAINLESS STEEL GUTTER

1. Design Standards:
 - a) Provide a continuous stainless steel gutter system for recirculation of pool water. The gutter system shall extend around the perimeter of the pool, as shown on the Contract Drawings, providing for skimming the pool surface and incorporating a filtered water return line. The following are approved manufacturers: Whittin Products Division of Hydrotech System, Cohoes, NY, or by Padvek Pool Equipment Co. Inc., P.O. Box 11676, Rock, SC, or by Kiefer Pool Equipment Co., Zion, IL, or by Neptune Benson Inc., One Bridal Avenue, West Warwick, RI 02893 or approved equal.
2. Qualification:
 - a) The system shall be the product of a manufacturer regularly engaged in the engineering, construction and installation of swimming pool overflow gutter systems.
 - b) The recirculating gutter system proposed for the swimming pool shall be designed specifically for this project and shall be fabricated and installed by an established manufacturer specializing in gutter overflow systems. All hydraulic calculations shall be provided on the drawings.
 - c) For alternate manufacturer system to be pre-qualified, the alternate Supplier shall have a minimum of 5 years of experience in the manufacture and installation of continuous stainless steel gutter systems. Any request for approval of an alternate must be in the form of a complete set of engineering drawings, hydraulic calculations, and specifications, prepared specifically for this project and submitted to the Architect/Engineer for review. NOTE: Systems which do not provide overflow skimming over the entire perimeter when the pool is in quiescence, and during all levels of bath use, are not acceptable.
3. Shop Drawings: Shop drawing and hydraulic calculations signed and sealed by an engineer registered in the State of Illinois shall be submitted for the Architect/Engineer's approval and the State Department of Public Health approval 120 days prior to manufacture/installation of gutter.
4. Components:
 - a) The gutter system shall consist of 12GA, Type 304L stainless steel drainage trough, sand-blasted non-skid overflow lip and collection converter.
 - b) The system shall be provided with 12GA, Type 304L stainless steel filtered water return tube and supply converter, size shall be sufficient to insure flow velocities per health code requirements.
 - c) A grating system will be included to enclose the gutter trough. Duradek T-1800
 - d) The gutter shall have a sand-blasted non-skid surface on all horizontal faces. The gutter will be taped off prior to sand blasting to provide a straight sand-blasted edge.
5. Overflow Skimming:
 - a) The gutter drainage trough must be capable of continuous overflow skimming and delivery to the filter of 125% of the total recirculation flow rate. The cross sectional area and depth of the gutter trough shall provide adequate hydraulic gradient considering the size of the pool.
6. Overflow Lip:
 - a) The hand grip (overflow lip) of the gutter shall provide a hand hold not exceeding 2-1/2 inches wide and not less than 1 inch deep in accordance with APHA regulations.
 - b) The overflow lip shall be level to a tolerance of 3/32 inch around the entire pool perimeter to provide uniform skimming of the entire pool surface.
 - c) The overflow lip shall have a sand-blasted non-slip finish.

7. Converters:

- a) Gutter manufacturer shall provide gutter supply and drainage converters as required. The converters shall be incorporated into the gutter and fabricated of Type 304L stainless steel and provide all necessary pipe stub connections for interconnection of circulation piping.
 - (1) Field connections to flanged converters shall be made by means of non-corrosive hardware.
8. Materials:
 - a) The major components of the gutter system shall be fabricated of low maintenance, anti-magnetic 3B finish 12 gauge Type 304L stainless steel. Materials and methods of installation shall provide a durable and rigid installation. Exposed surface of the gutter shall be cleaned and polished to a smooth, uniform, non-corrosive finish. Provide sand-blasted non-slip surface on top of gutter overflow lip and top of backplash flange.
9. Grates:
 - a) Grates shall provide a means of 100% access for trough inspection. Grating shall have a minimum 18% open area around the entire pool perimeter for fast recession of pool overflow and turbulence. Gratings shall be held in place by non-corrosive tamper-proof fasteners. Gutter systems not incorporating a grate will not be acceptable.
 - b) The grating system shall not restrict the required hydraulic flow from pool to primary channel.
 - c) Gutter grating shall be Duradek T-1800, 1" glass reinforced composite grating, non-slip top surface, UV stabilized.
 - d) Grates shall be unbreakable and capable of supporting at least 450 lbs. per square foot structural bearing load when in place in gutter.
 - e) The grating shall be white in color.
10. Accessibility:
 - a) All return tubes, fittings, inlets and rope anchors shall be 100% accessible for inspection, repair or replacement.
11. Filtered Water Return Tube:
 - a) The filtered water return tube shall be fabricated from 12 gauge Type 304L stainless steel, with inlet nozzles, spaced not more than 42" on center, around the entire pool perimeter except where inlets shall be expressly deleted at stairways or touch pads. These inlet jets shall be installed as to provide a steady and consistent stream of filtered chlorinated water on a fixed 45 degree angle directed toward the bottom of the pool. The inlet openings shall not be larger than 1/2" in diameter and the system shall provide uniform flow around the entire pool perimeter.
12. Safety Line Anchors:
 - a) Safety line anchors shall be included as required per plans. Anchors shall be integral to the gutter system and recessed such that no part of the anchor protrudes above any finish face of the gutter.
13. Anchoring and Installation:
 - a) The recirculating gutter system shall be installed with corrosion resistant anchorage spaced at a maximum of 4 feet on center around the entire pool perimeter. Accurate horizontal and vertical alignment not to exceed plus or minus 3/32 inch around the entire pool perimeter. All joints between stainless steel sections shall be welded. Bolted or caulked joints not accepted.
14. Testing:
 - a) After the gutter system has been fully welded, and prior to drilling the supply inlets, the supply tube shall be pressure tested at 5 psi for a period of 4 hours without a pressure drop. During the 4 hour period, all joints shall be soap tested. Pressure testing shall be done by the system installer.

15. Finish:

- a) The stainless steel gutter shall be cleaned and polished as required to present a uniform finish. Each weld seam, as completed, after it cools to approximately 300 degrees, shall be vigorously brushed with a stainless steel brush. Blending of all surfaces shall be done with a Scotch Brite Pad. The strength of the raised weld shall not be reduced by grinding. After all stainless steel welding, brushing, blending and testing, the welds on the stainless steel components must be cleaned with a one-to-one solution of muriatic acid (HCL) and water. Swab the acid on the weld seams, keeping them wet with acid for five (5) to ten (10) minutes. Thoroughly neutralize and rinse. Repeat swabbing the entire exposed surface of the stainless steel components with a 20% muriatic acid solution. An integral, sandblasted, non-skid strip shall be provided on the top surface of the supply conduit and gutter channel section.
16. Grouting:
 - a) After the stainless steel gutter system is installed and leveled on the pool walls, the deck contractor shall complete the installation by grouting under and behind the gutters around the entire perimeter of the pool to insure a water tight seal around the entire pool perimeter. Grout mixture shall be as designed and recommended by the manufacturer and approved by the Architect/Engineer.
17. Guarantee:
 - a) The Recirculating Gutter System shall be guaranteed by the manufacturer for workmanship, materials and performance for a period of five (5) years from date of installation. The guarantee shall include all labor and materials for replacement of any defective materials.
18. Grounding:
 - a) Complete stainless steel recirculating gutter system including all appurtenances (i.e. gutter components, converters, etc.) shall be provided with grounding lugs in accordance with N.E.C., Article 680 for bonding to ground system by others

GUTTER SPECIFICATIONS

PL2.0-6

DATE	REVISION

LUFKIN SWIMMING POOL RENOVATION
VILLAGE OF VILLA PARK, ILLINOIS

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