



Interior Health
Health Protection

Sewerage System
Letter of Certification

Tax Assessment Roll #: 16715 02086.010

Date: 15/09/2014
 (Day/Month/Year)

To: Interior Health Authority

Re: Sewerage system at: 2870 GAMMON ROAD NARANJATA
 Street Address or General Location

LOT A PLAN KAP 36242 DL 207 5040
 Legal Description

Planner: RA. SAVAGE

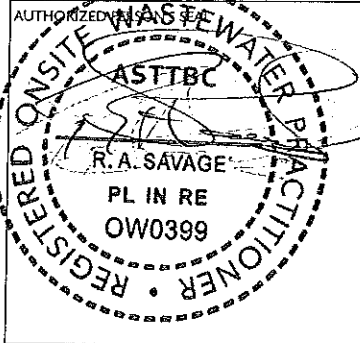
Installer: RA. SAVAGE Owner: NICHOLAS GAMMON

The construction of the proposed sewerage system on the above described property was completed on 12/09/2014
 (Day/Month/Year)

I, the undersigned, am an authorized person as defined in the Sewerage System Regulation, BC Reg. 326/2004 and certify that:

1. the owner will be provided with
 - a copy of the sewerage system plans and specifications as they were built;
 - a maintenance plan for the sewerage system that is consistent with standard practice; and,
 - a copy of this letter of certification;
2. the sewerage system has been constructed in accordance with standard practice;
3. the sewerage system has been constructed substantially in accordance with the plans and specifications filed with the Health Authority;
4. the estimated daily domestic sewage flow through the sewerage system will be less than 22,700 litres; and,
5. if operated and maintained as set out in the maintenance plan, the sewerage system will not cause or contribute to a health hazard.

A plan of the sewerage system as it was built and a copy of the maintenance plan for the sewerage system have been appended to this letter.

<p>AUTHORIZED PERSON</p> 	<p>DATE LETTER OF CERTIFICATION ACCEPTED</p> <p>FILED</p> <p>SEP 16 2014</p> <p>INTERIOR HEALTH AUTHORITY PENTICTON, B.C.</p>	<p>DATE LETTER OF CERTIFICATION RECEIVED BY NON HEALTH PROTECTION CLERK</p>
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DESIGN CRITERIA

SYSTEM DESIGNED FOR A REPAIR TO EXISTING 3 BEDROOM 1100 SQ. FT. HOME.

NEW SYSTEM DESIGNED TO ACCOMMODATE WASHROOM FACILITY IN PROPOSED GARAGE /WORKSHOP.

SITE

THE PROPERTY IS A .145 HA. LOT 24.4 M. X 59.1 M.. THE LOT WAS ORIGINALLY CREATED AS A HOME SITE SEVERANCE. THE AREA AVAILABLE FOR THE NEW DRAIN FIELD IS CONFINED TO THE NORTH EAST CORNER OF THE LOT DUE TO THE PRESENCE OF BEDROCK AND NATURAL TOPOGRAPHY. A TYPE 2 SYSTEM WILL BE USED.

SOILS

THE SOILS THROUGHOUT THE DRAIN FIELD AREA ARE 2 TO 10 – 38 INCHES OF SILTY LOAM WITH HIGH SAND CONTENT UNDERLAIN WITH LOAMY SAND WITH SILT AND LARGE GRAVEL CONTENT. AT 60 INCHES THERE IS A SAND AND GRAVEL SEEM.

THERE WERE ROOTS NOTED THROUGH OUT THE SOIL PROFILE TO 60 INCHES.

THE TEST PITS WERE DRY TO THE BOTTOM WITH NO EVIDENCE OF MOTTLING.

VERTICLE SEPARATION WILL BE GREATER THAN 36 INCHES BELOW THE INFILTRATIVE SURFACE OF THE NATIVE SOILS. THERE WAS NO INDICATION OF A LIMITING LAYER IN TH DRAIN FIELD SITE ALTHOUGH THERE IS BED ROCK NOTED ON THE LOT.

PERMEABILITY THROUGHOUT THE SITE IS FAIR WITH Kfs DESIGN RANGE OF 160 TO 1080.

SYSTEM DESIGN

DAILY DESIGN FLOW = 375 IMP GAL / DAY

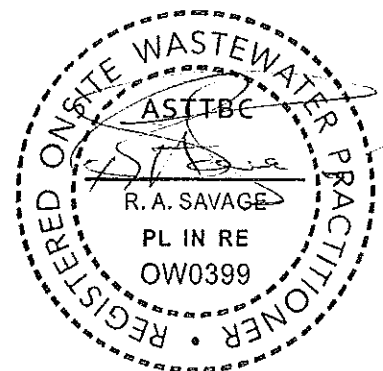
HYDRAULIC LOADING RATE = .8 IMP GAL / SQ. FT. [TYPE 2]

SEEPAGE BED BASIL AREA = 468 SQ FT.

BED SIZE - 10 FT X 47 FT

NUMBER OF GSF A42 MODULES REQUIRED = 24

BED TO BE EXCAVATED TO 18 INCHES BELOW ORIGINAL GROUND SURFACE



6 INCHES OF C 33 MOUND SAND TO BE PLACED OVER COMPLETE BOTTOM OF BED

GSF MODULES TO BE PLACED IN 3 ROWS OVER SAND STARTING 1 FT IN FROM SIDEWALLS AND 2 FT IN FROM ENDS WITH 1.5 FT SEPARATION AT ENDS OF MODULES AND 1 FT AT SIDES.

4 INCH PVC CSA PERFORATED SEWER PIPE TO BE PLACED DOWN CENTER OF MODULES AND HELD IN PLACE WITH HOOPS PROVIDED . LINES TO BE CONNECTED AT ENDS.

VENT TO BE PLACED IN CENTER LATTERAL 5 FT IN FROM END.

PIPE AND MODULES TO BE COVERED WITH FABRIC PROVIDED

HOLES IN PERFORATED PIPE BETWEEN MODULES TO BE COVERED WITH HALF 4 INCH PVC SOLID PIPE GLUED IN PLACE.

ALL VOIDS IN BED TO BE FILLED WITH C 33 MOUND SAND AND TO TOP OF PIPE.

TWO 4 INCH OBSERVATION PORTS TO BE INSTALLED 10 FT IN FROM ENDS OF BED BETWEEN MODULES AND SIDEWALL.

BED TO BE BACKFILLED WITH CLEAN SANDY SOIL TO A MAXIMUM 18 INCHES OVER MODULES AND SLOPED FOR RUN OFF.

SEPTIC TANK TO BE SOCP 1200 GALLON TWO COMPARTMENT SEPTIC TANK WITH RISERS TO GROUND SURFACE WITH LIDS AND EFFLUENT FILTER AT OUTLET.

DISTRIBUTION BOX TO BE SOCP MIN 4 HOLE BOX WITH RISERS TO GROUND SURFACE WITH LID AND SPEED LEVELLERS INSTALLED.

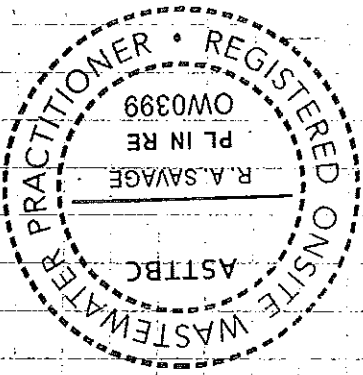
SYSTEM TO BE INSTALLED AS PER ELJEN GSF SPECIFICATIONS

INSTALLER TO CONTACT PLANNER PRIOR TO CONSTRUCTION.

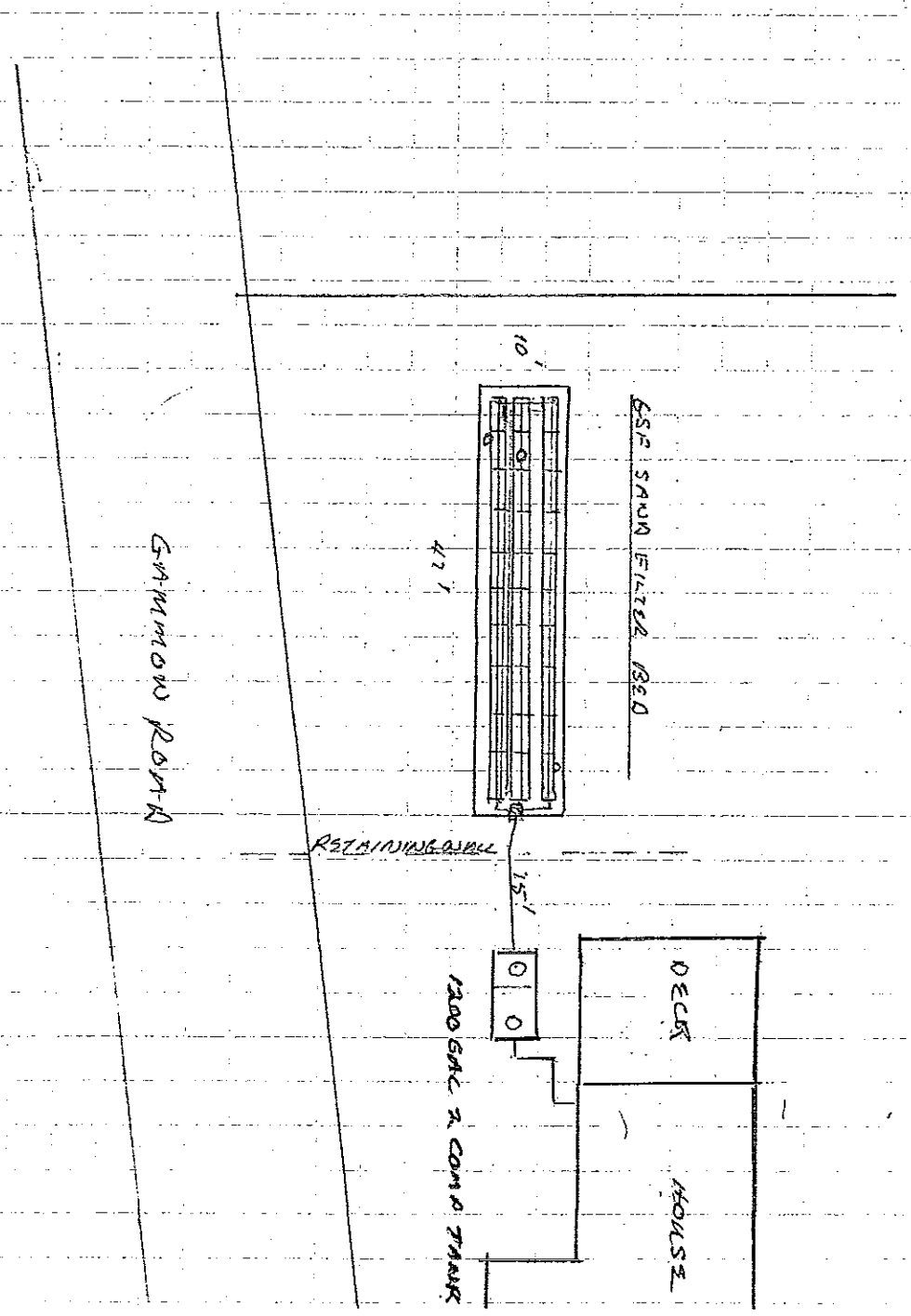
INSTALLER TO PROVIDE AS BUILT PLAN AND LETTER OF CERTIFICATION AS TO CONSTRUCTION.

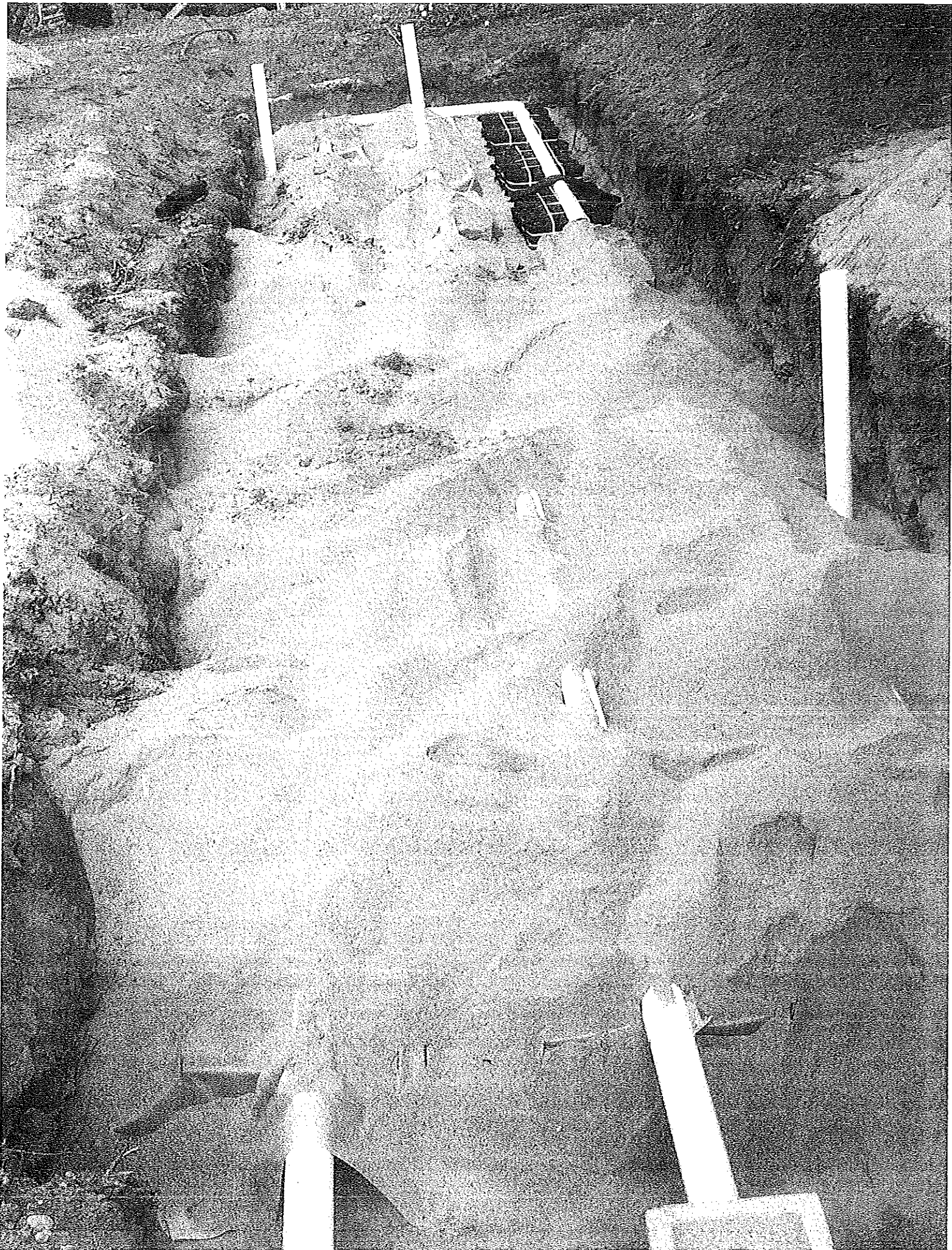
PLANNER TO INSPECT SYSTEM PRIOR TO BACKFILLING. PLEASE PROVIDE MIN TWO DAYS NOTICE.

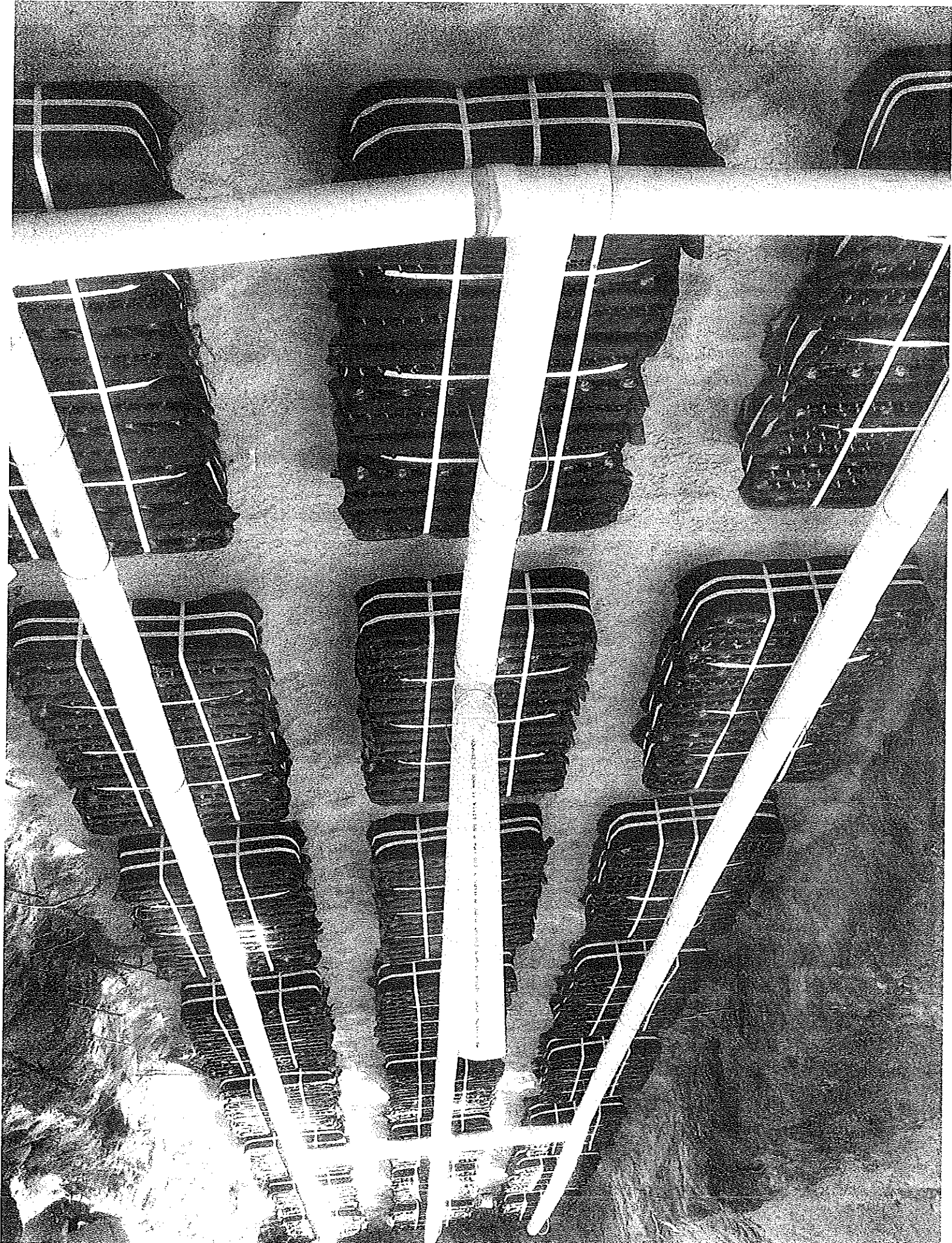
R.A. SAVAGE CPHI[C] ROWP
OWO399

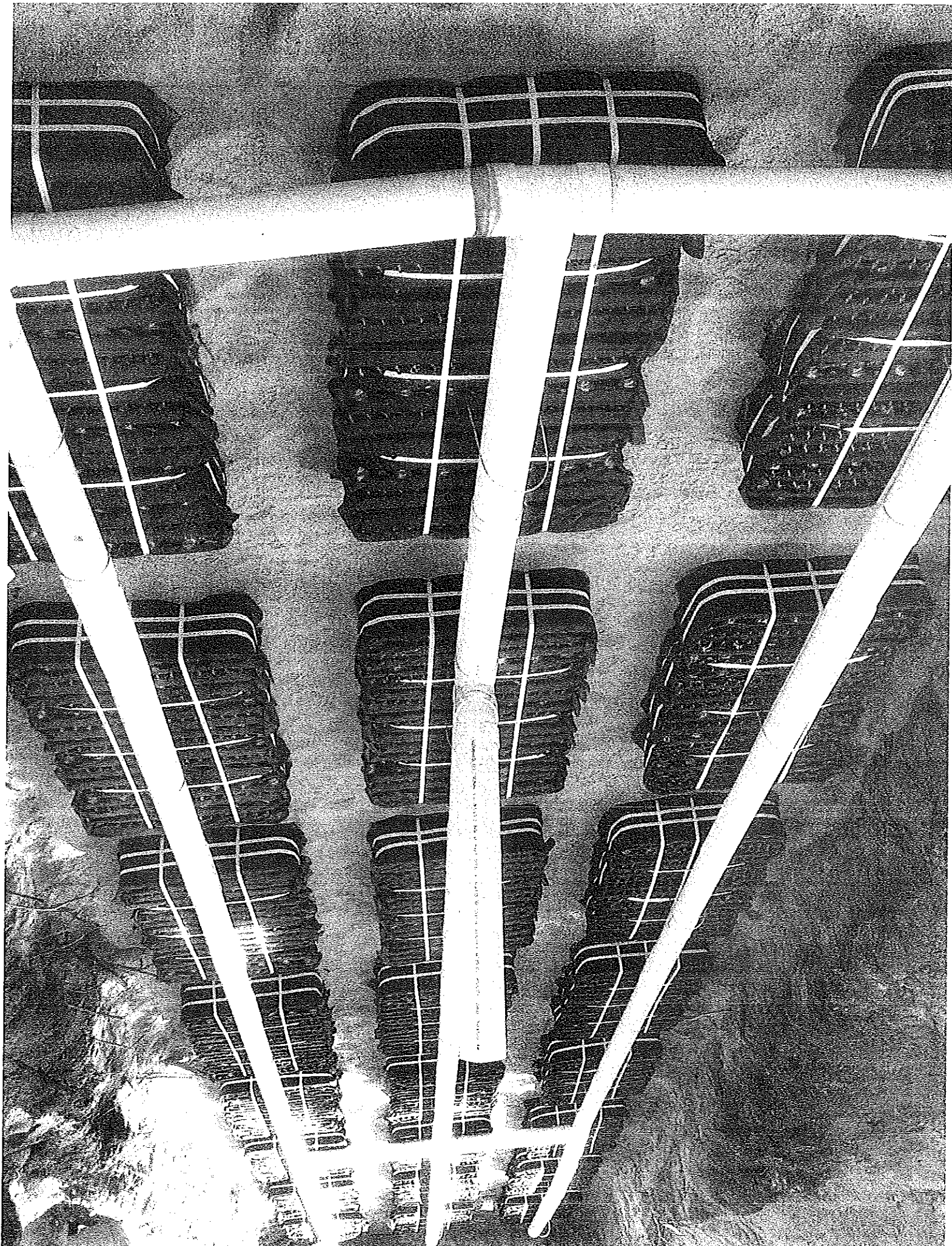


AS BUILT PLAN GAMMERS RESIDENCE
2370 GAMMERS ROAD
LOT 19 PLAN RMP 38292 AL 207 SA 110
SCALE 1/4" = 1' - 0"









System Drawings

Figure 8: Example A42 Bed Cross Section

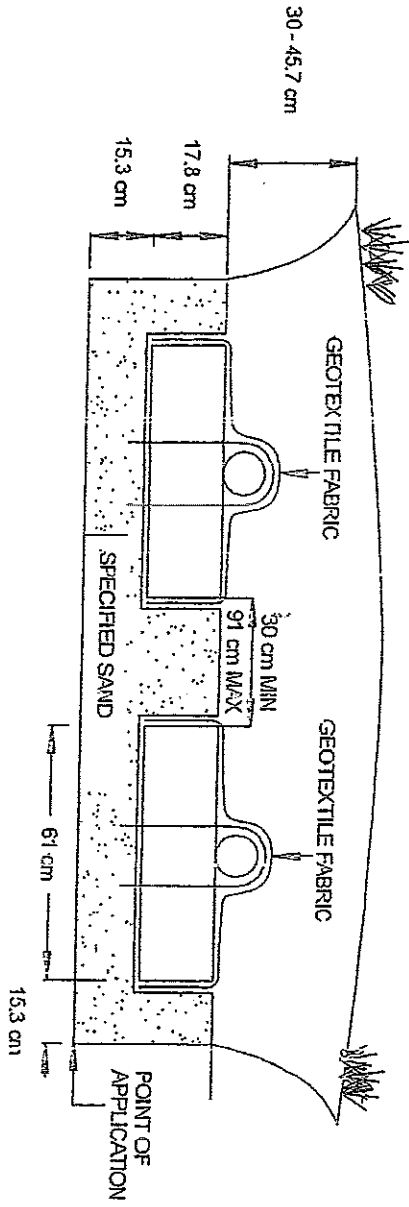
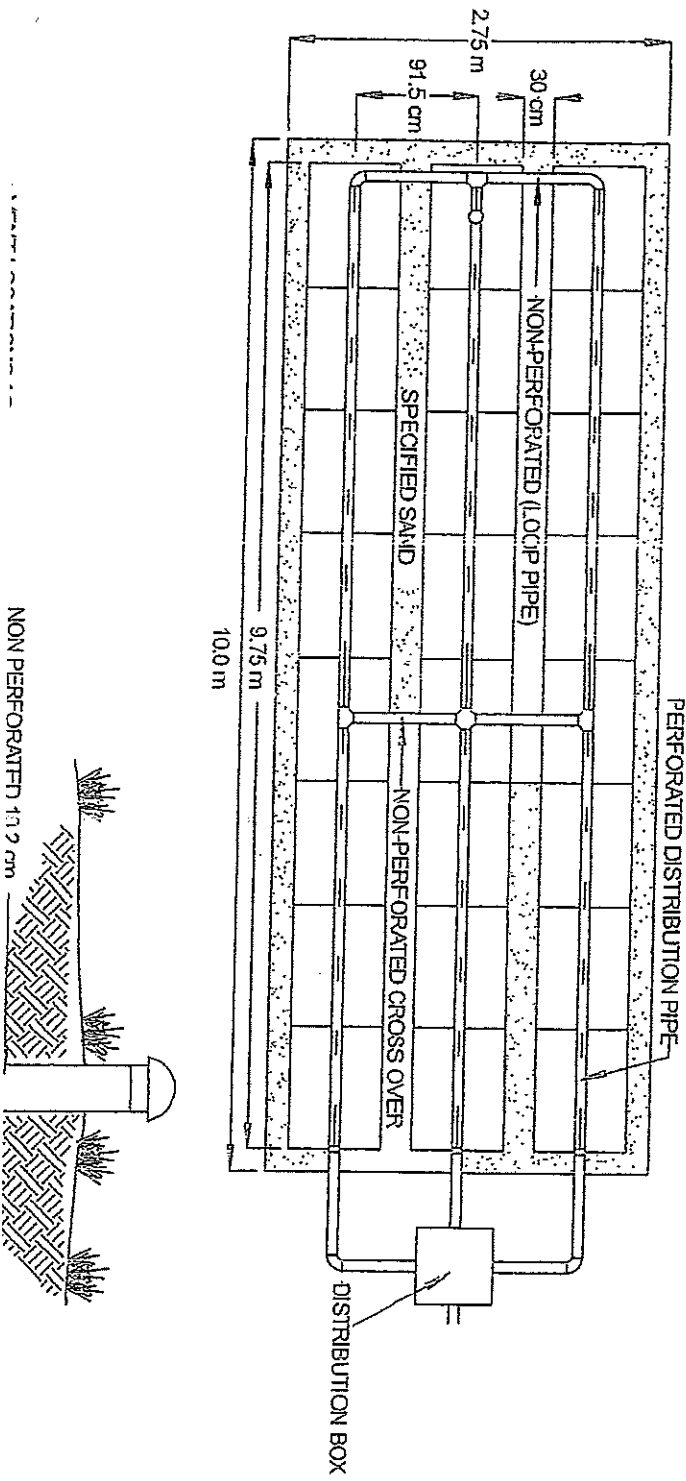
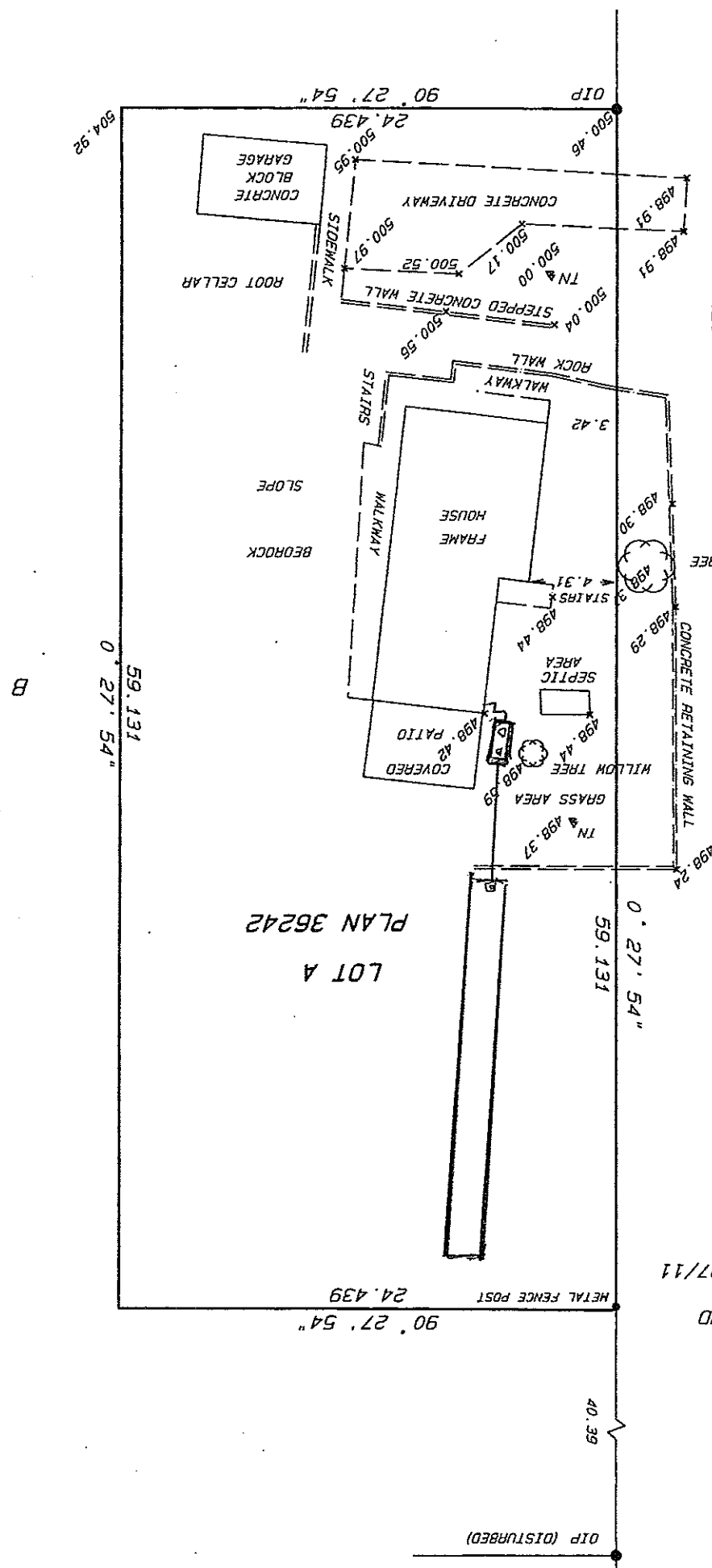
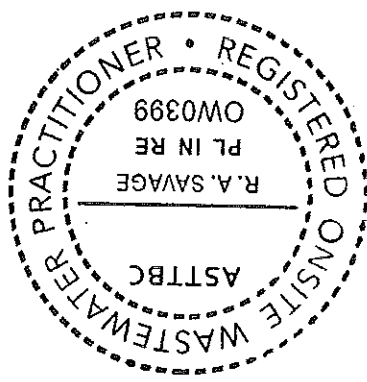


Figure 9: Example Level Bed with Cross Over Pipe Plan View



AM SURVEYING AND SERVICES LTD.
 2606 SOUTH MAIN STREET
 PENICTON, B.C.

NOTE:
 -THIS SITE PLAN IS NOT TO BE USED
 TO RE-ESTABLISH PROPERTY LINES.
 -PROPERTY DIMENSIONS ARE FROM
 LAND TITLE OFFICE RECORDS



LOT A
 PLAN 36242

FIELD WORK COMPLETED ON APRIL 27/11

OIP INDICATES OLD IRON PIN FOUND

ELEVATIONS ARE ARBITRARY

LEGEND:

CIVIC ADDRESS:
 2870 GAMMON ROAD
 NARAMATA, B.C.

OIP (DISTURBED)

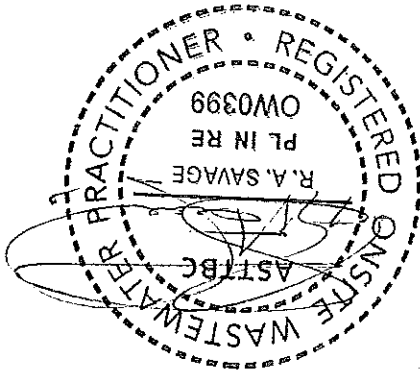
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LEGEND:

ELEVATIONS ARE ARBITRARY

OIP INDICATES OLD IRON PIN FOUND

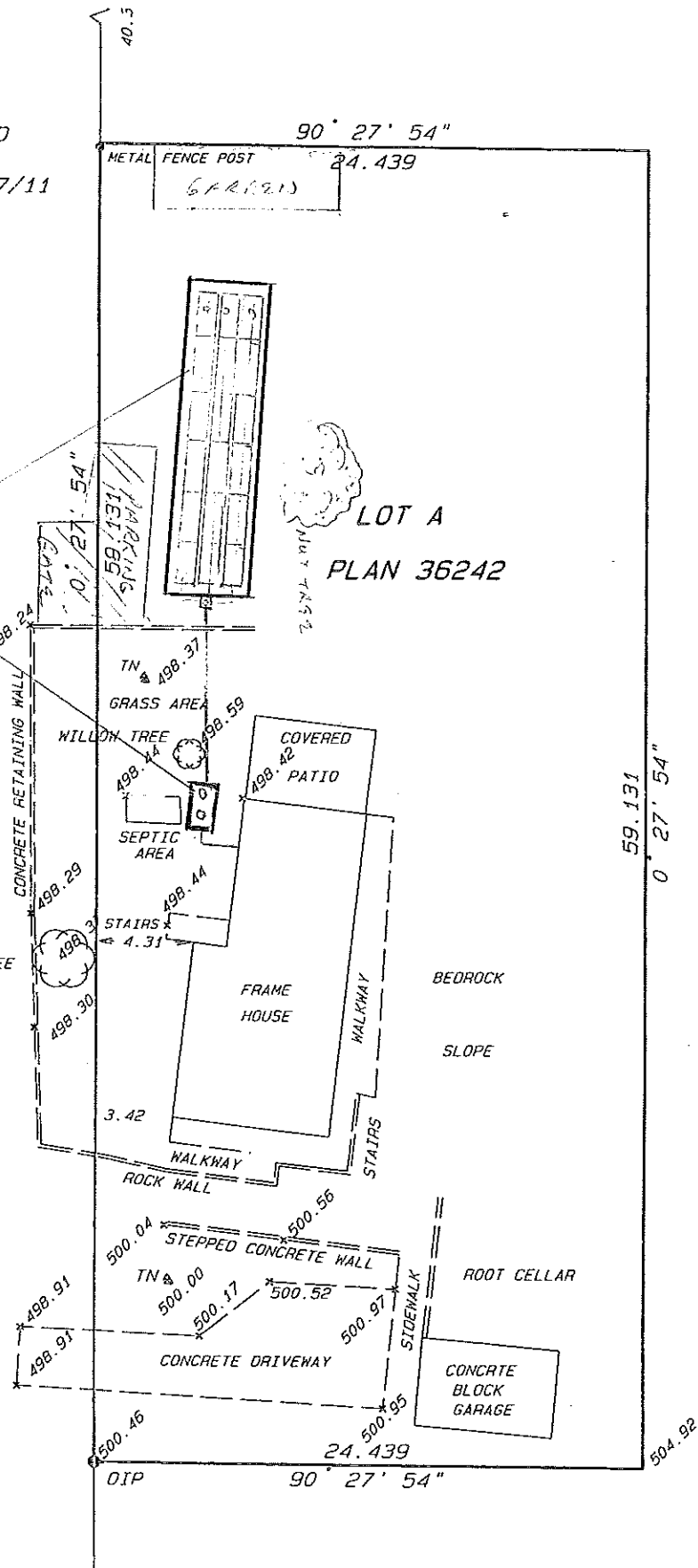
FIELD WORK COMPLETED ON APRIL 27/11



GAMMON ROAD

GEOTECHNICAL SAND FILLING USED

ADJACENT 1200 GAL ROUND SEWAGE TANKS



B

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AM SURVEYING AND SERVICES LTD.
 2606 SOUTH MAIN STREET
 PENTICTON, B.C.
 V2A-5J3
 Ph: 250-493-5467 Job No. 11-025

SITE PLAN OF AREA ADJACENT TO EXISTING HOUSE ON LOT A
 D.L. 207, S.D.Y.O., PLAN 36242.

SCALE 1 : 300

All Distances are in Metres.

CIVIC ADDRESS:

2870 GAMMON ROAD

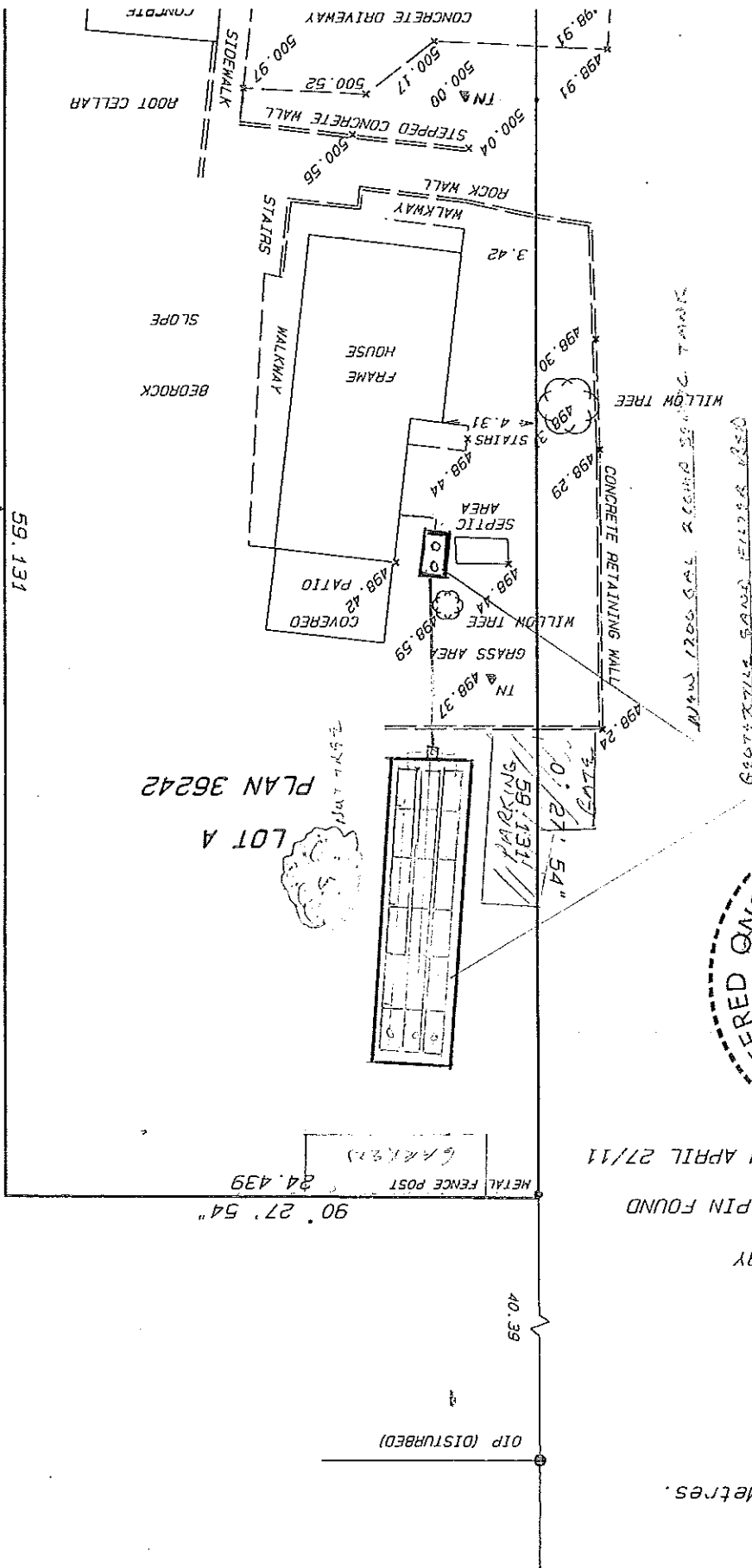
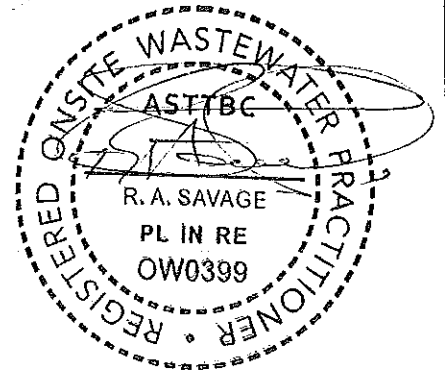
NARAMATA, B.C.

LEGEND:

ELEVATIONS ARE ARBITRARY

OIP INDICATES OLD IRON PIN FOUND

FIELD WORK COMPLETED ON APRIL 27/11



B