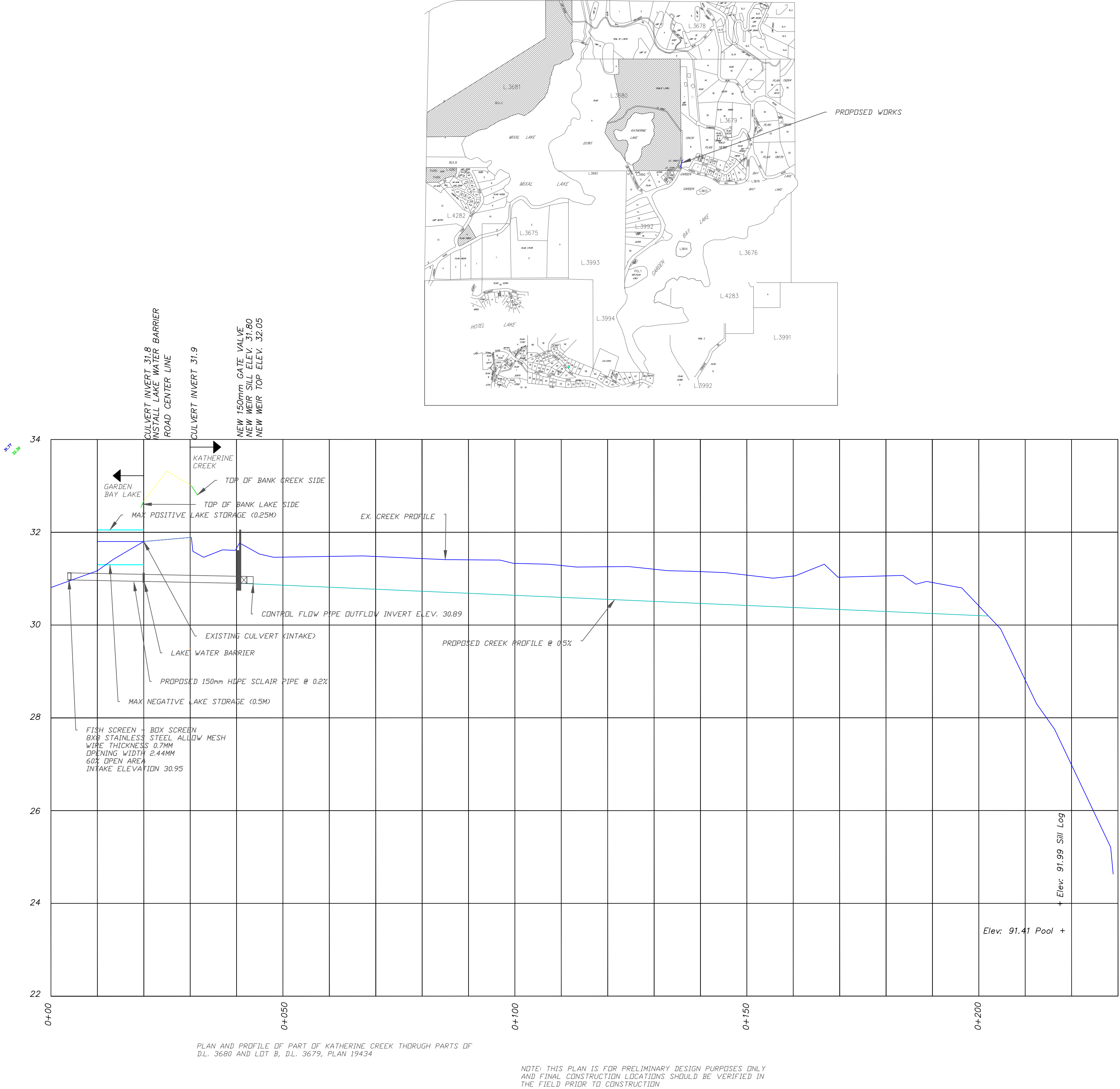
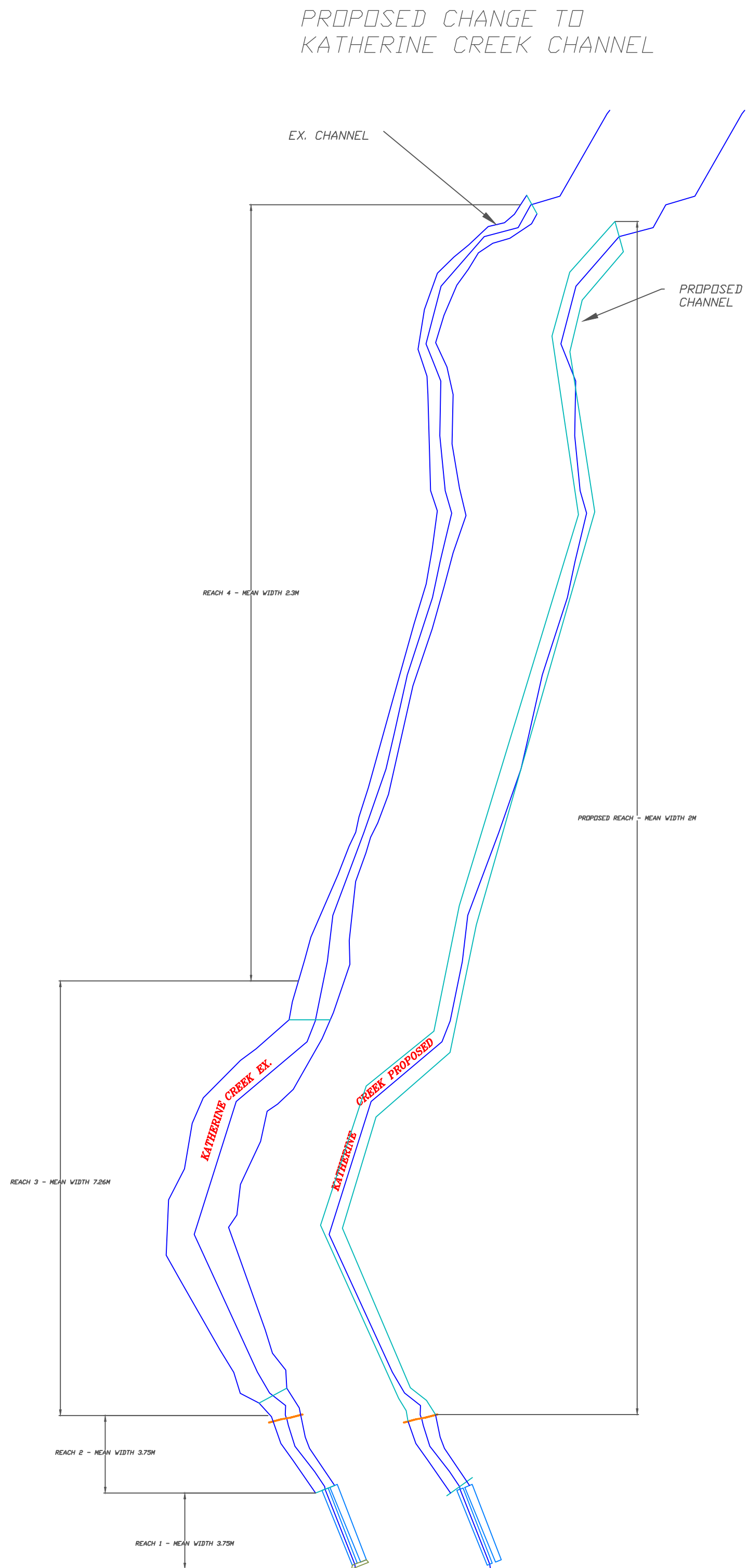
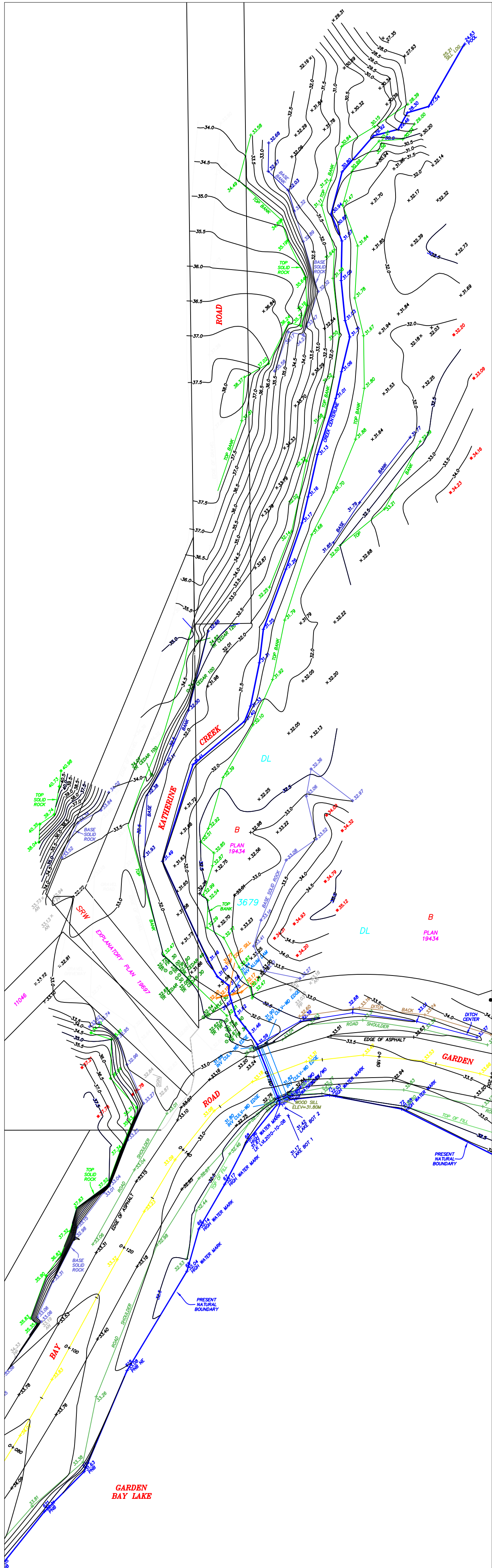


GARDEN BAY LAKE CONTROL STRUCTURE



SUNSHINE COAST REGIONAL DISTRICT
WATER WORKS

AS BUILT:

LATEST PLAN: MAY 24, 2012
REVISION DATE:

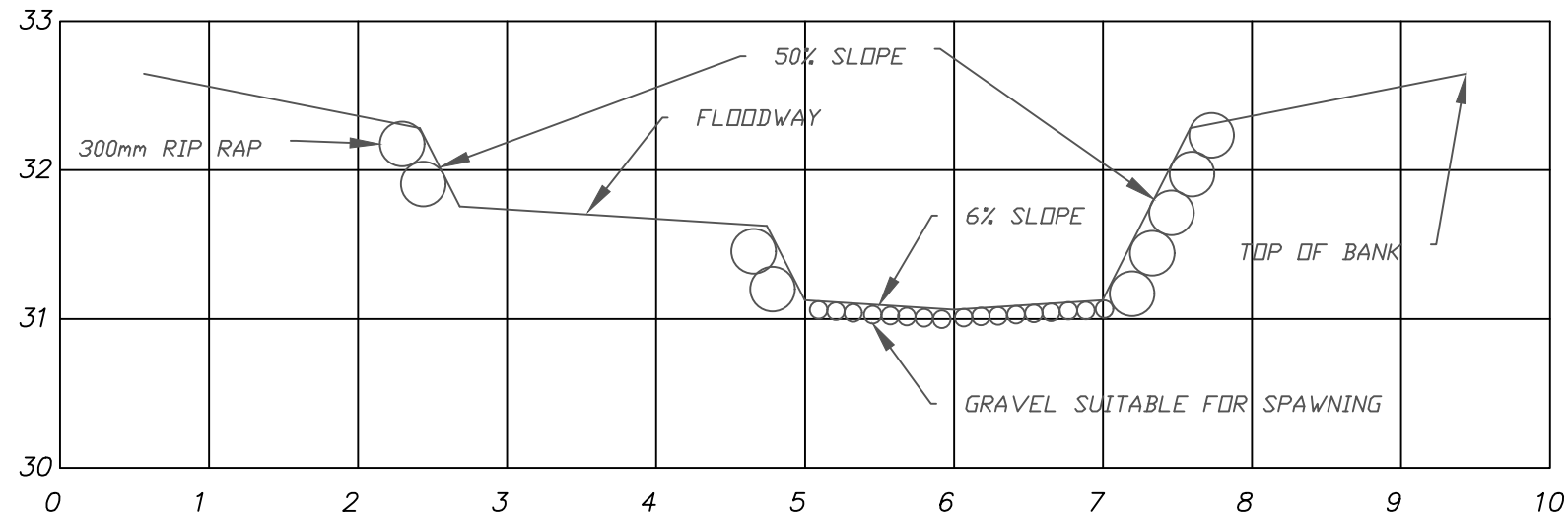
GARDEN BAY LAKE CONTROL STRUCTURE

DESIGN BY: M.S. C.S.
DRAWN BY: M.S.

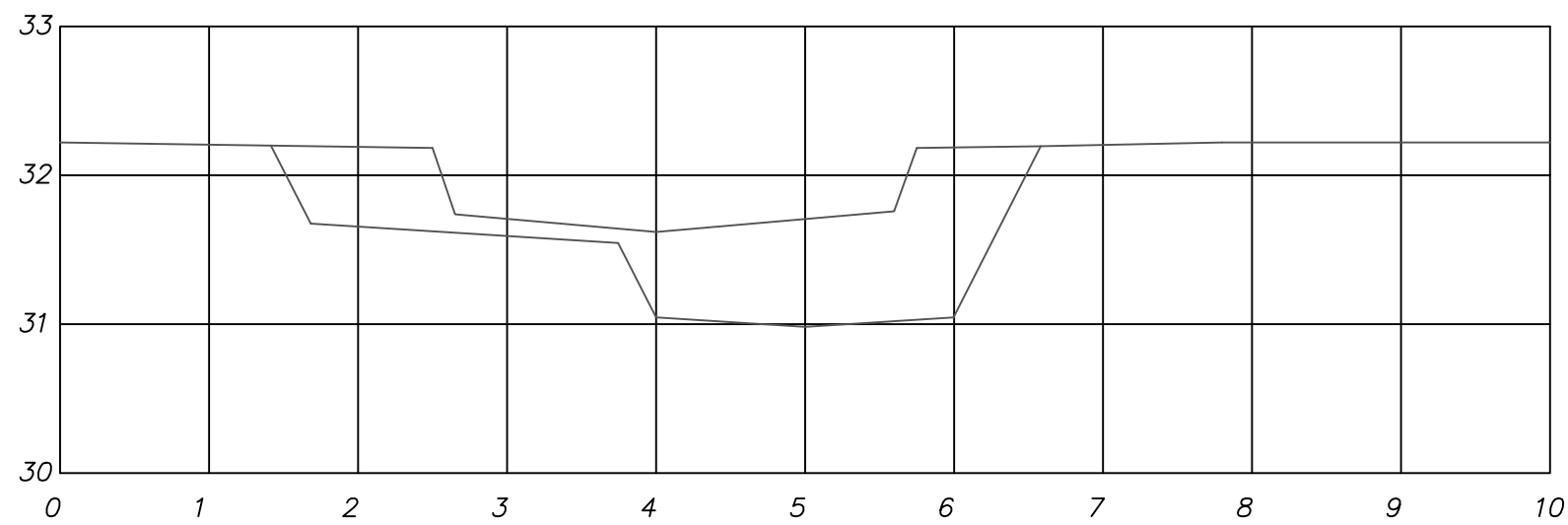
HORIZONTAL SCALE: 1:500
VERTICAL SCALE: 1:50

DRAWING NO. GBL-01

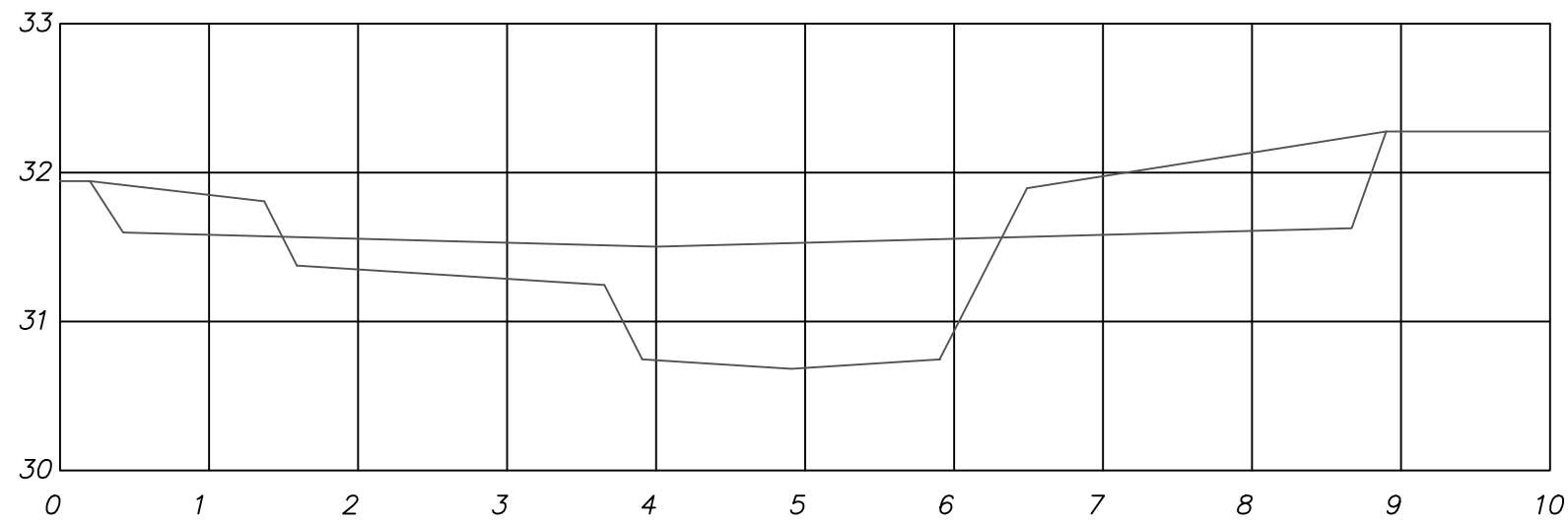
TYPICAL CROSS SECTIONAL PROFILE OF PROPOSED CREEK BED - LOOKING DOWNSTREAM



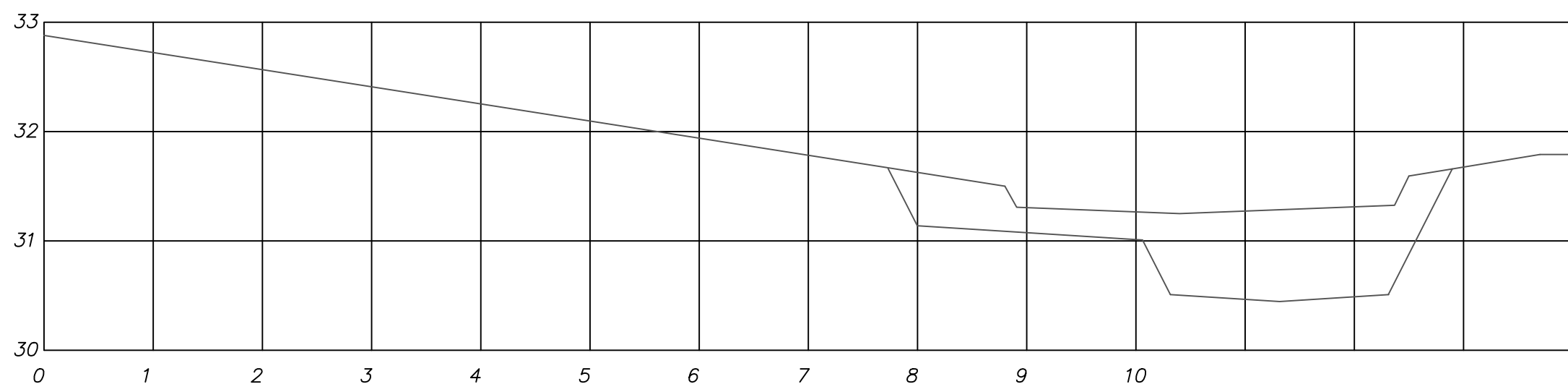
STN 0+032



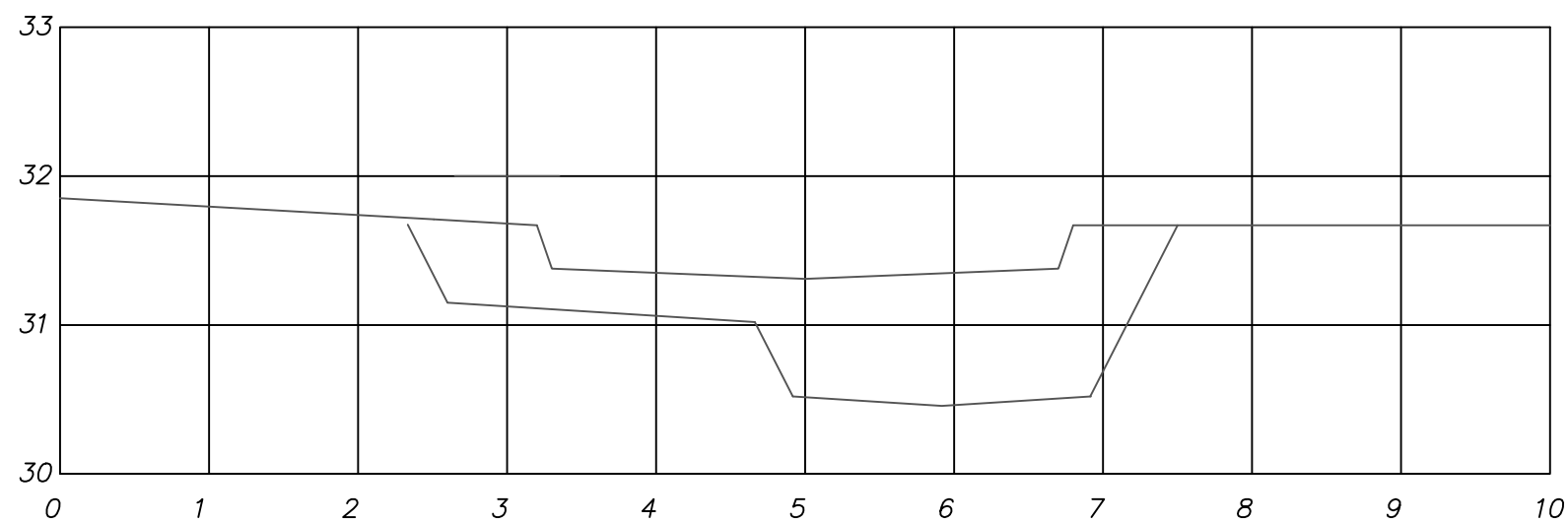
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STN 0+104



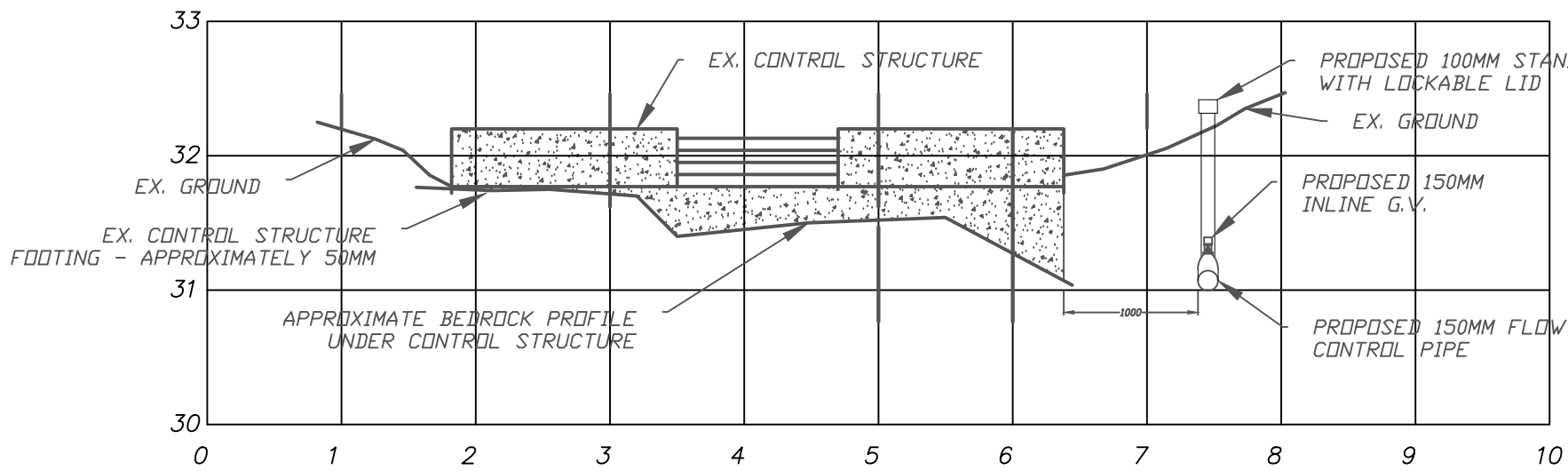
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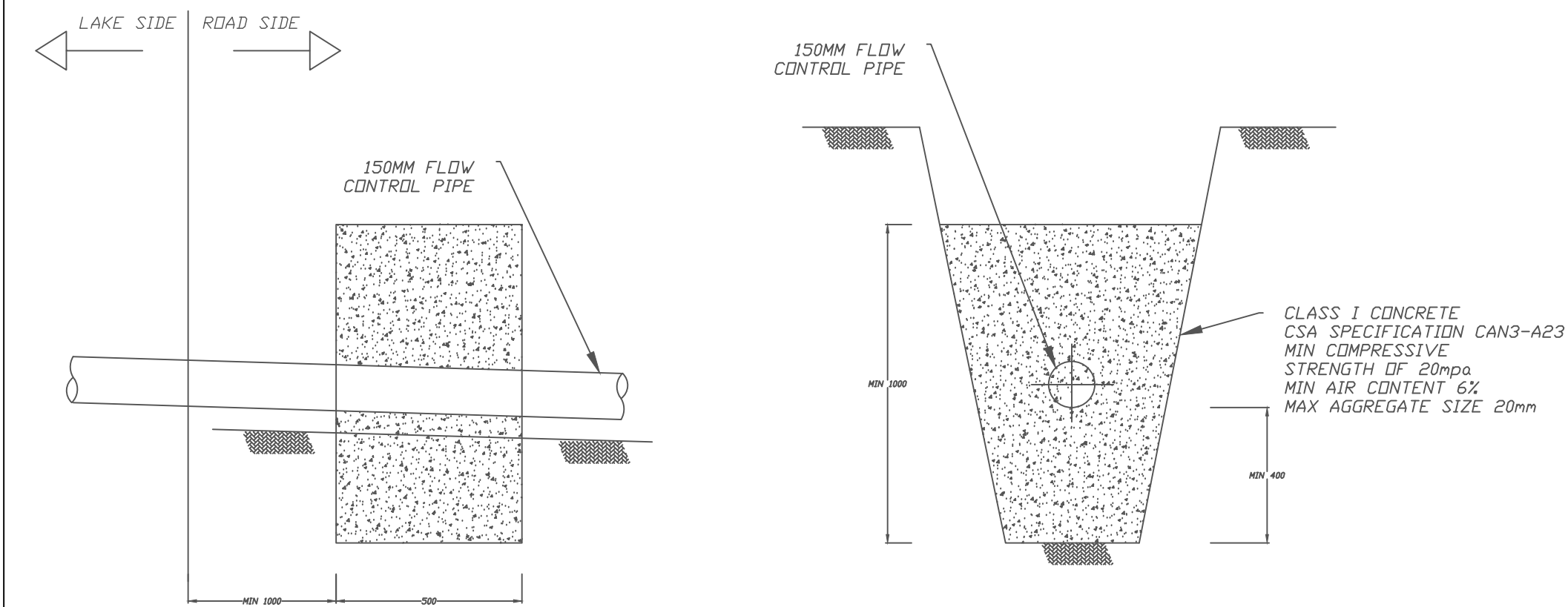
NOTES

1. ALLOWABLE DRAWDOWN IS 0.5m FROM THE INVERT OF THE CULVERT ON THE LAKE SIDE.
2. THE INTAKE OF THE SCLAIR PIPE MUST BE 0.9m BELOW THE INTAKE OF THE CULVERT TO ALLOW FOR A SAFETY FACTOR OF 0.4m TO ENSURE NO HEAD LOSS.
3. INVERT ELEVATION OF THE INTAKE WILL BE 30.95m
4. INVERT ELEVATION OF THE OUTFLOW WILL BE 30.90m
5. CREEK BED SHALL BE LOWERED BY 0.7m FOR APPROXIMATELY 160m @ 0.5% (REACHES 1-3)
6. CREEK BANK SLOPES TO BE 50% (2:1)
7. STREAM BED SLOPE TO BE 6%
6. CREEK BANKS TO BE LINED WITH 300MM DIA RAP RIP
7. CREEK BED TO BE LINED WITH SUITABLE SIZED PEBBLES
10. NEW CREEK CHANNEL TO MAINTAIN A MEAN WETTED WIDTH OF 2M WITH 2M WIDE FLOODWAY
11. SCREEN ON INTAKE TO SCLAIRE PIPE TO BE MADE OF STAINLESS STEEL ALLOY MESH WITH A THICKNESS OF 0.711mm, AN OPENING WIDTH 2.44MM AND 60% OPEN AREA
12. ALL OF THE MATERIAL FROM CREEK IS TO BE LEFT ON PROPERTY AS PER PROPERTY OWNERS REQUEST
13. INSTALL HOMEOWNERS WATER LINE DURING CONSTRUCTION - SUBJECT TO APPROVAL BY THE MINISTRY OF ENVIRONMENT

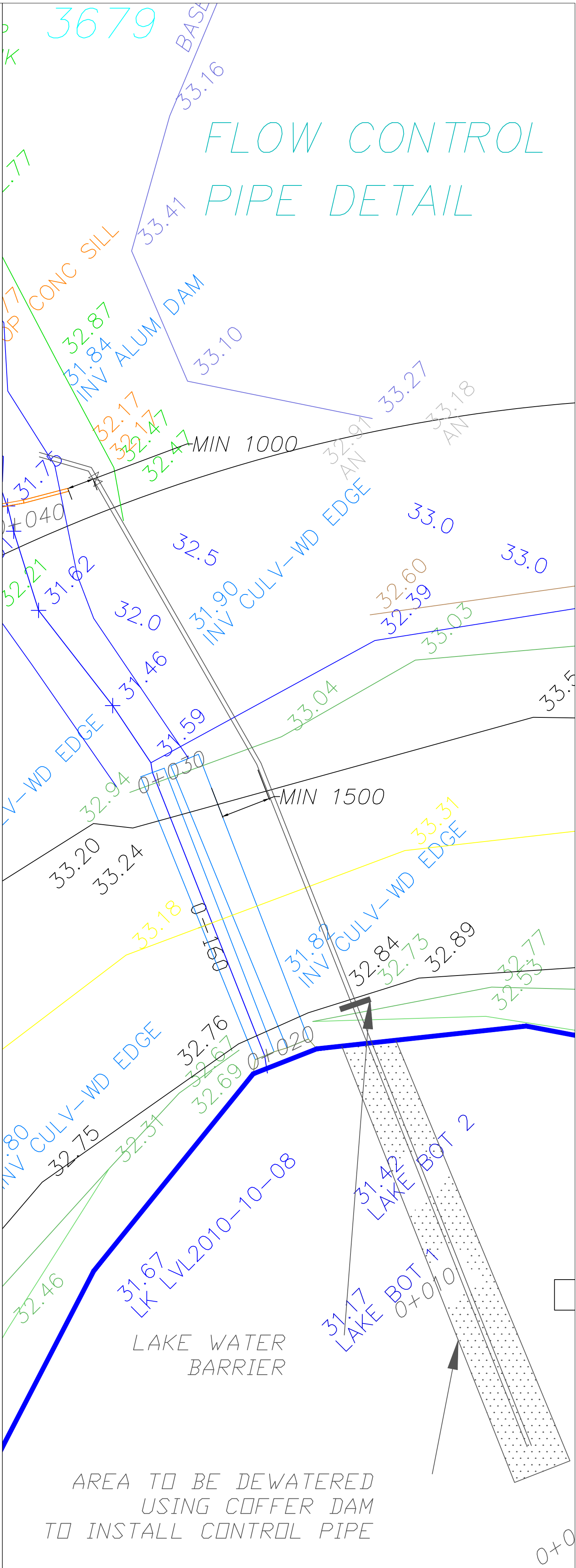
EX. CONTROL STRUCTURE - UPSTREAM SIDE



LAKE WATER BARRIER



FLOW CONTROL PIPE DETAIL



SUNSHINE COAST REGIONAL DISTRICT
WATER WORKS

LATEST PLAN: MAY 24, 2012
REVISION DATE:

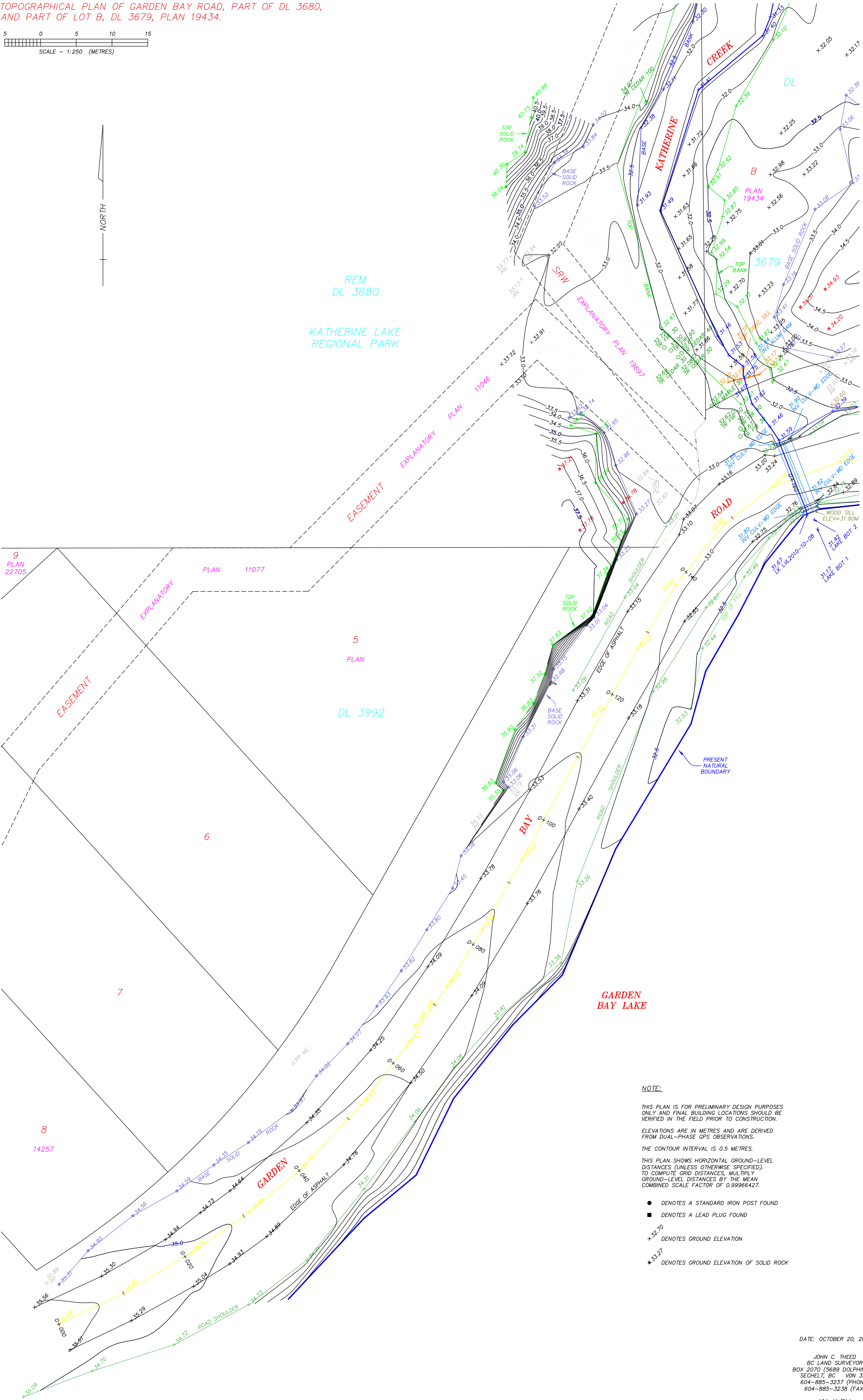
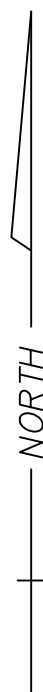
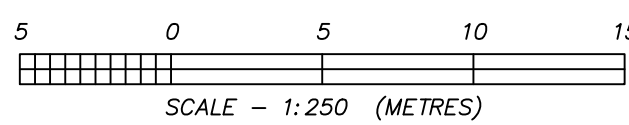
GARDEN BAY LAKE CONTROL STRUCTURE

DESIGN BY: M.S. C.S.
DRAWN BY: M.S.

SCALE (CROSS SECTIONS): 1:500
SCALE (FLOW CONTROL PIPE): 1:100

DRAWING NO. GBL-02

TOPOGRAPHICAL PLAN OF GARDEN BAY ROAD, PART OF DL 3680,
AND PART OF LOT B, DL 3679, PLAN 19434.



NOTE:

THIS PLAN IS FOR PRELIMINARY DESIGN PURPOSES ONLY AND FINAL BUILDING LOCATIONS SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

ELEVATIONS ARE IN METRES AND ARE DERIVED FROM DUAL-PHASE GPS OBSERVATIONS.

THE CONTOUR INTERVAL IS 0.5 METRES.

THIS PLAN SHOWS HORIZONTAL GROUND-LEVEL DISTANCES (UNLESS OTHERWISE SPECIFIED). TO COMPUTE GRID DISTANCES, MULTIPLY GROUND-LEVEL DISTANCES BY THE MEAN COMBINED SCALE FACTOR OF 0.99966427.

- DENOTES A STANDARD IRON POST FOUND
- DENOTES A LEAD PLUG FOUND
- + 32.70 DENOTES GROUND ELEVATION
- ★ 33.27 DENOTES GROUND ELEVATION OF SOLID ROCK

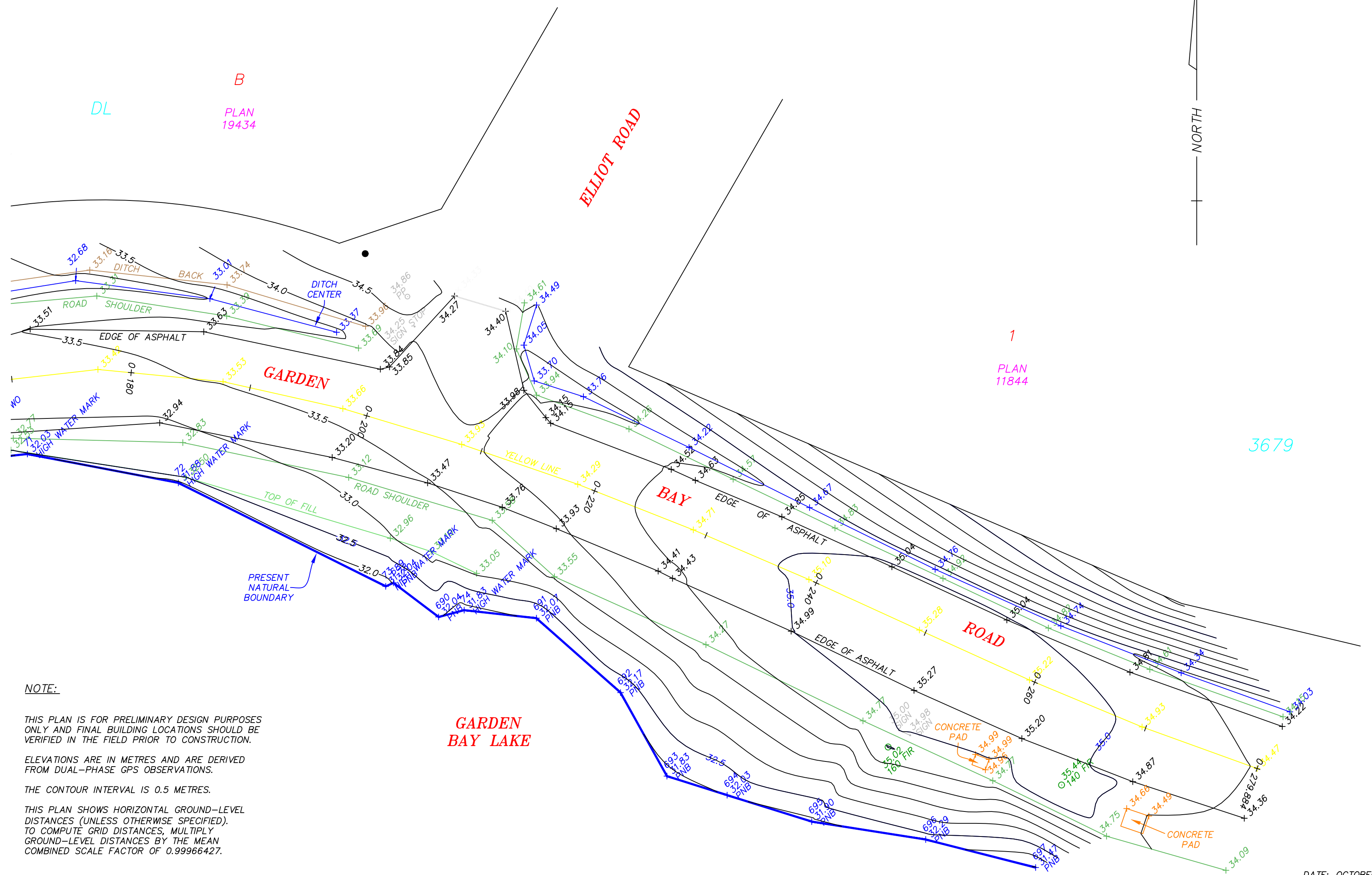
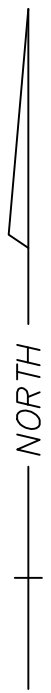
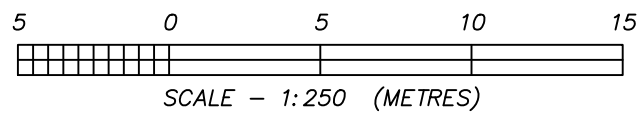
DATE: OCTOBER 20, 2011

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164-11/514

SHEET 1 OF 7

TOPOGRAPHICAL PLAN OF GARDEN BAY ROAD.



NOTE:

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- DENOTES A STANDARD IRON POST FOUND
- +32.50 DENOTES GROUND ELEVATION

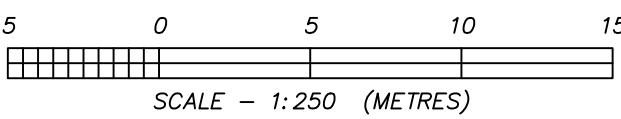
DATE: OCTOBER 20, 2011

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SHEET 2 OF 7

TOPOGRAPHICAL PLAN OF GARDEN BAY ROAD, PART OF DL 3680,
AND PART OF LOT B, DL 3679, PLAN 19434.



NOTE:

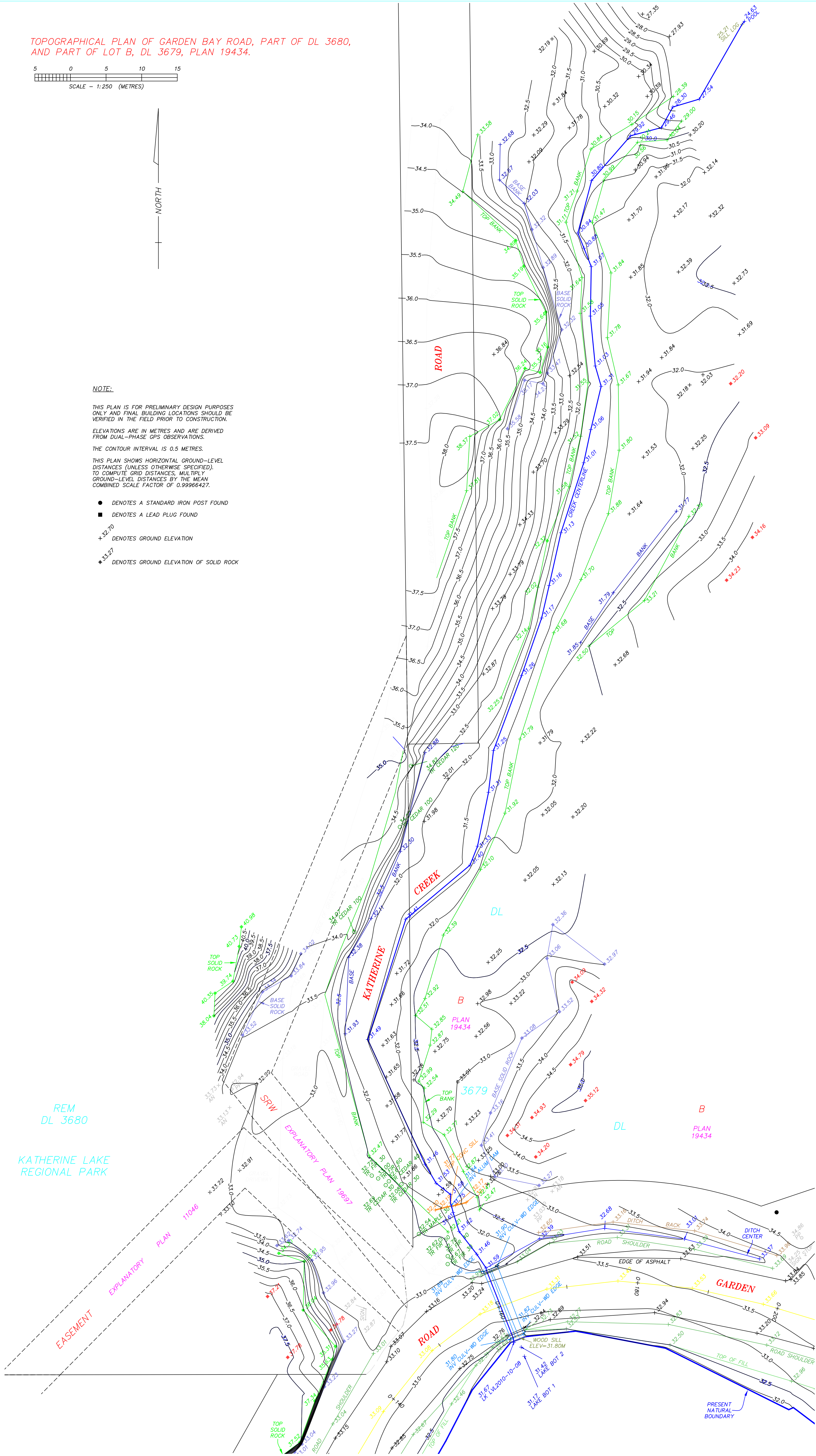
THIS PLAN IS FOR PRELIMINARY DESIGN PURPOSES ONLY AND FINAL BUILDING LOCATIONS SHOULD BE VERIFIED IN THE FIELD PRIOR TO CONSTRUCTION.

ELEVATIONS ARE IN METRES AND ARE DERIVED FROM DUAL-PHASE GPS OBSERVATIONS.

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- + 32.70 DENOTES GROUND ELEVATION
- ★ 33.27 DENOTES GROUND ELEVATION OF SOLID ROCK



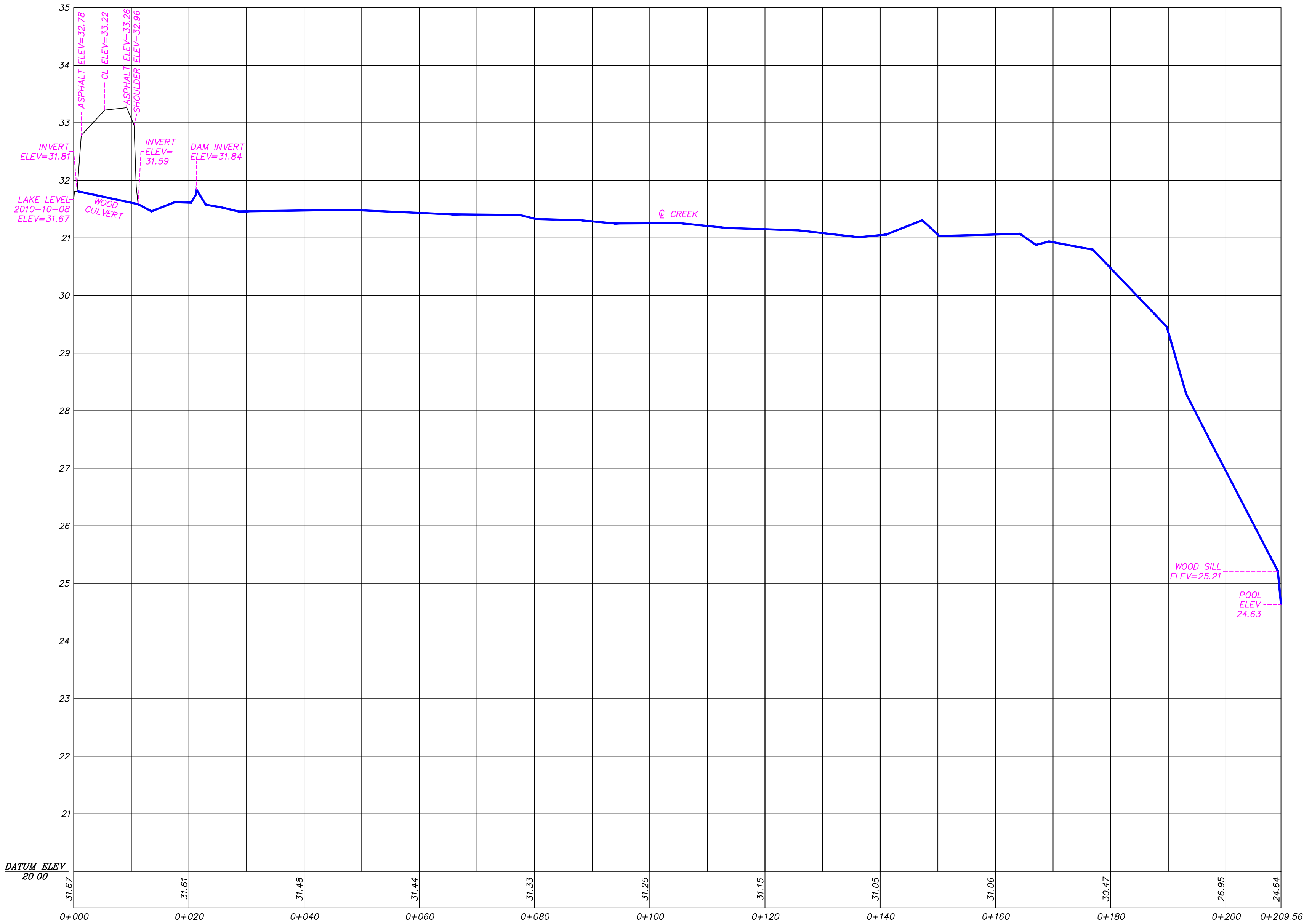
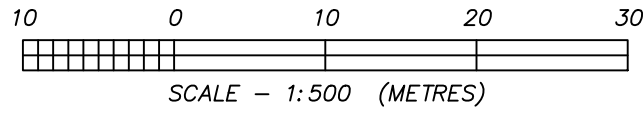
REVISED: MARCH 21, 2012
DATE: OCTOBER 20, 2011

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SHEET 3 OF 7

PROFILE OF PART OF THE CENTERLINE OF KATHERINE CREEK.



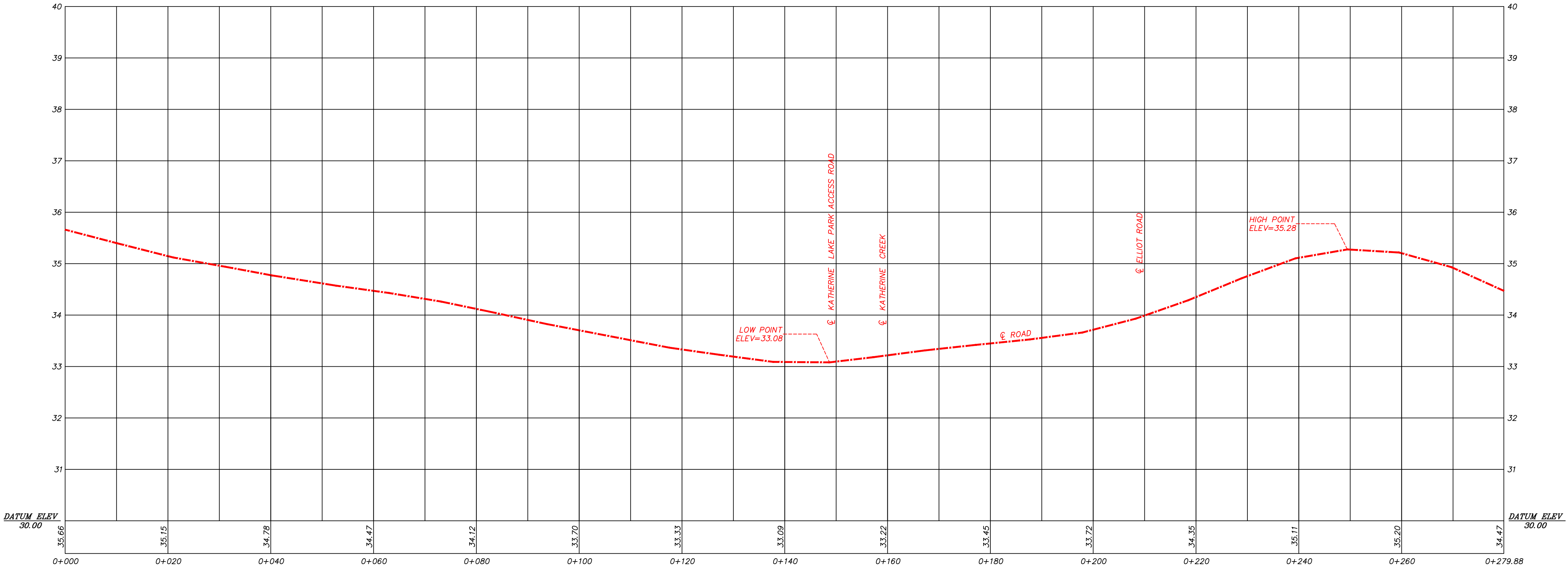
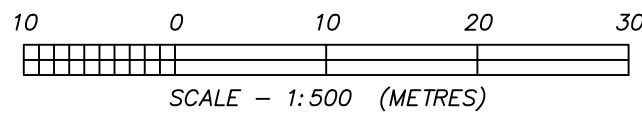
DATE: OCTOBER 20, 2011

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SHEET 4 OF 7

PROFILE OF PART OF THE CENTERLINE OF GARDEN BAY ROAD.



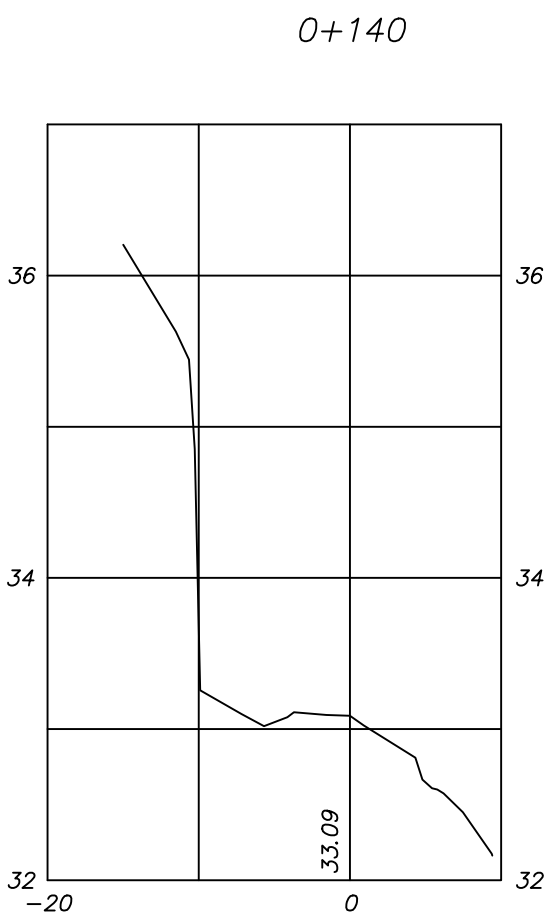
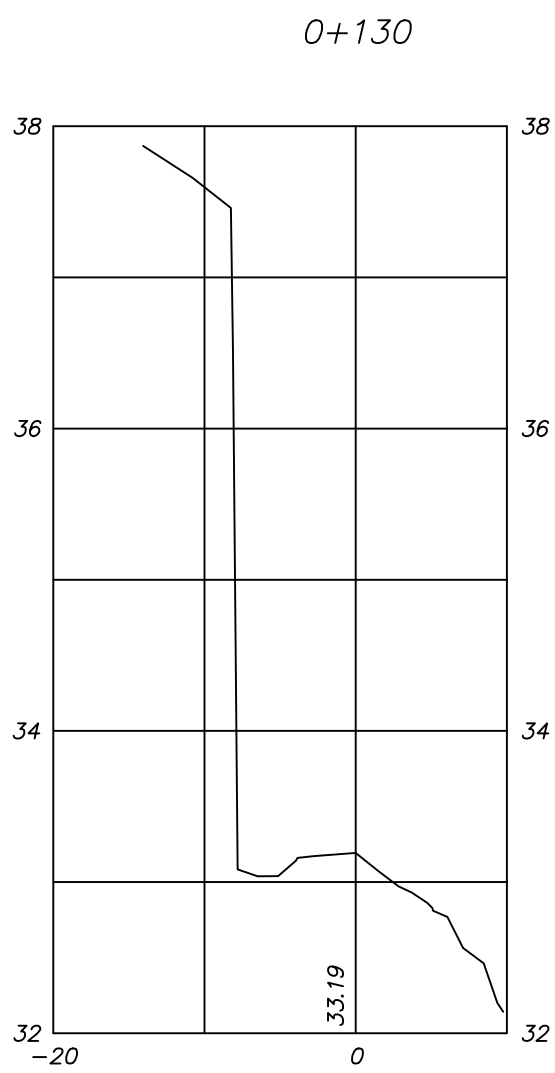
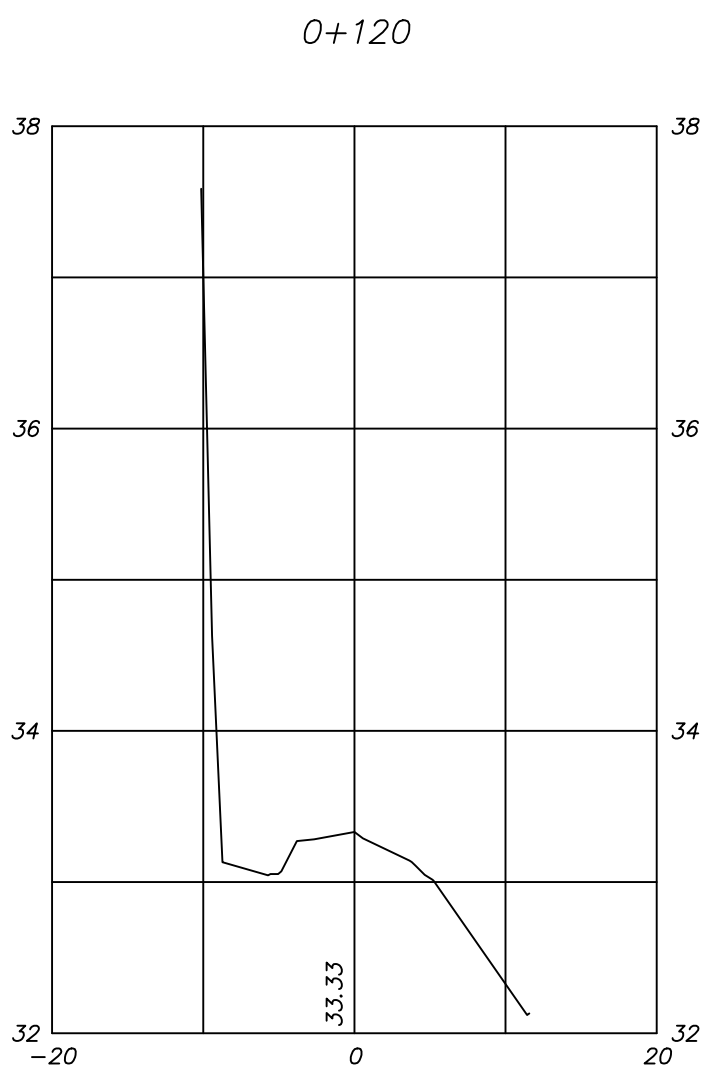
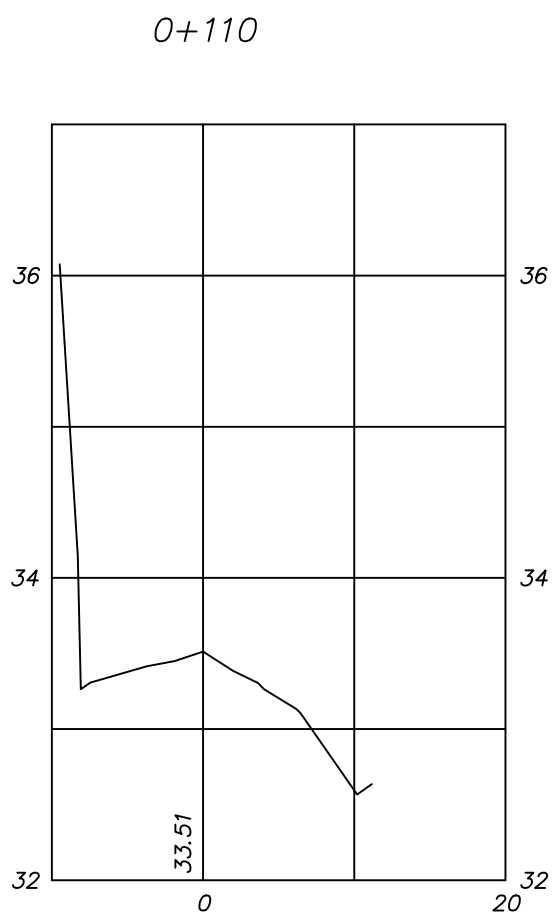
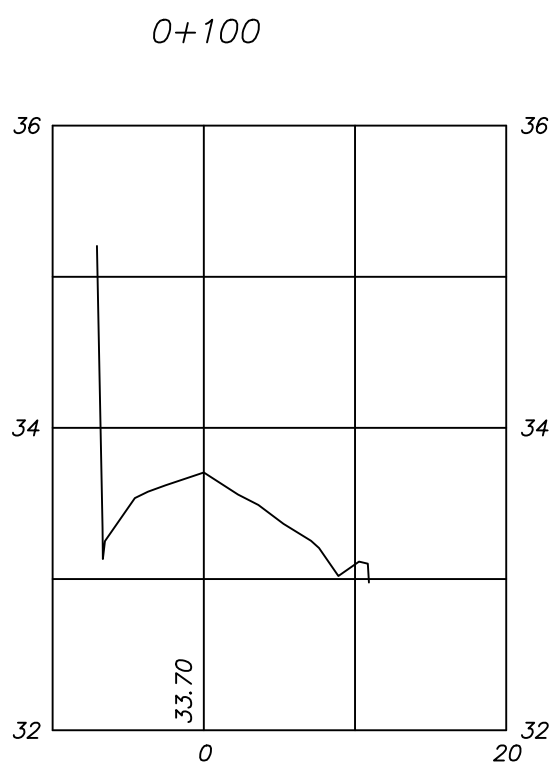
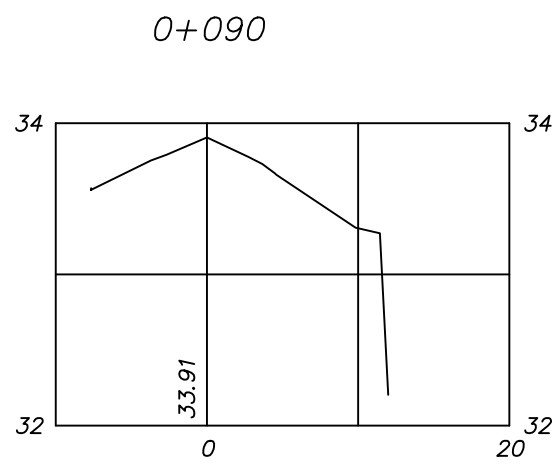
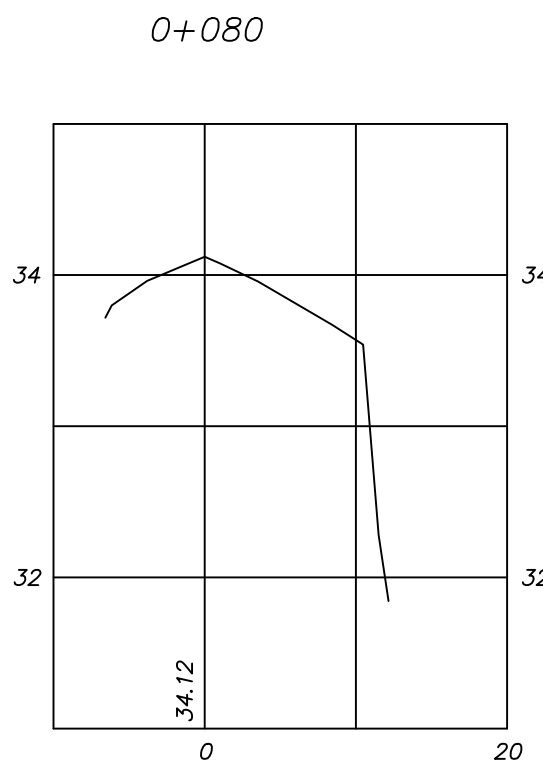
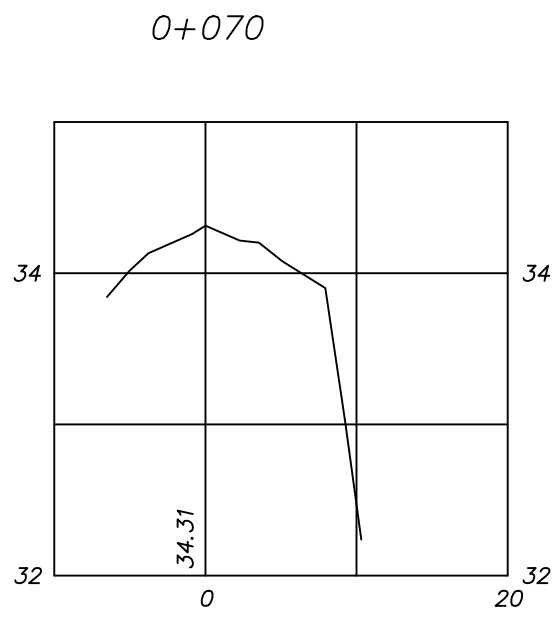
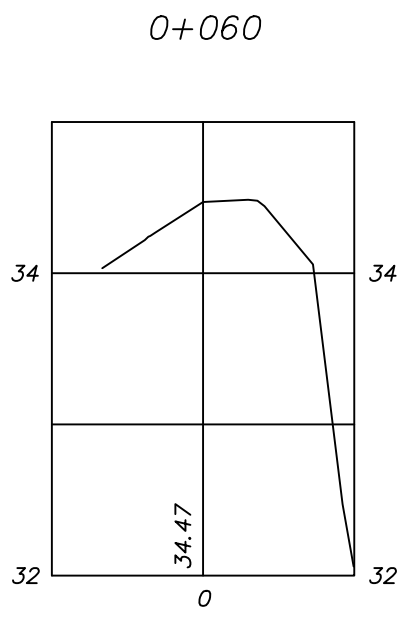
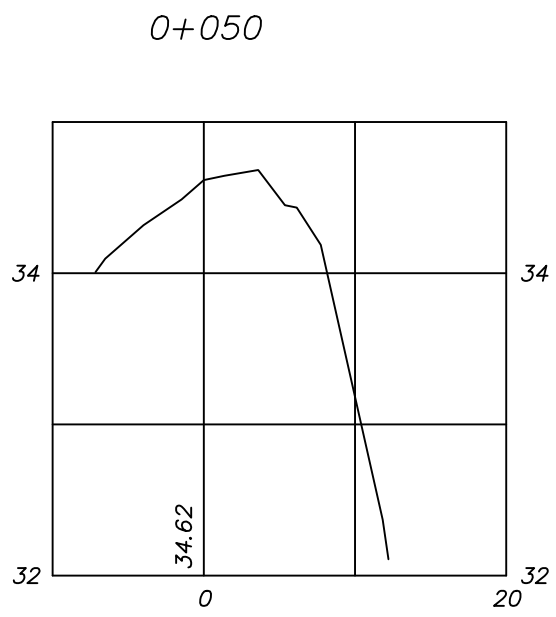
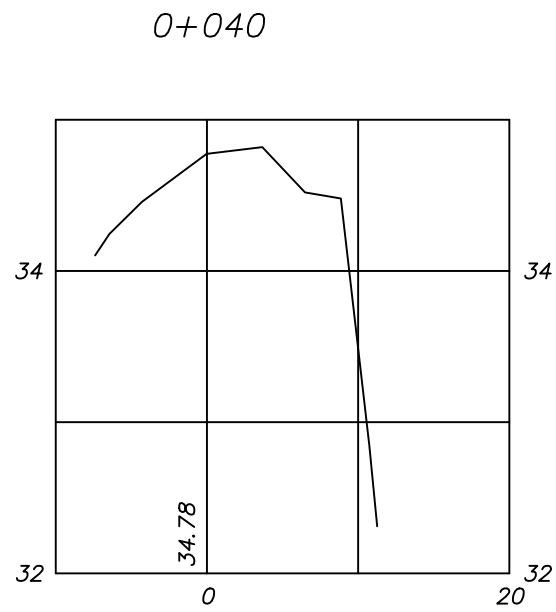
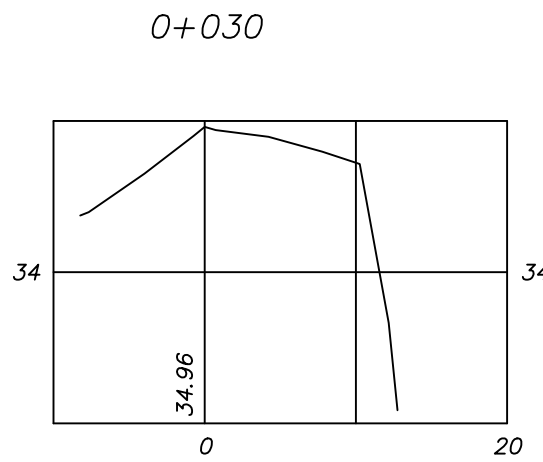
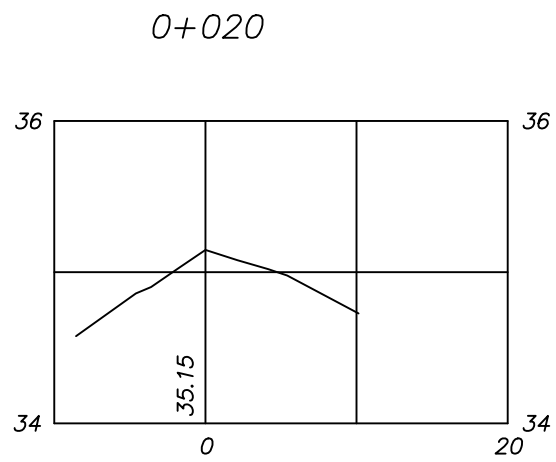
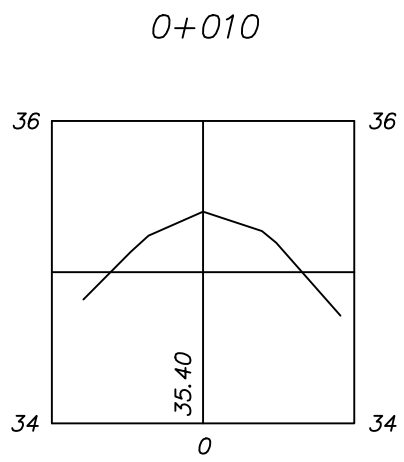
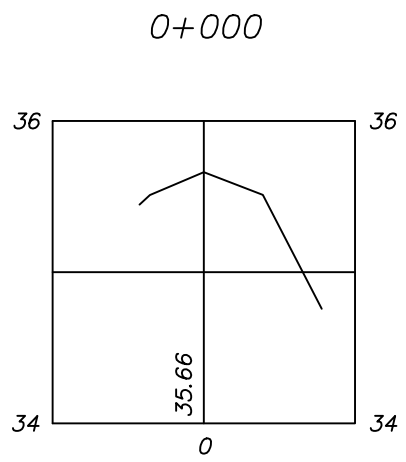
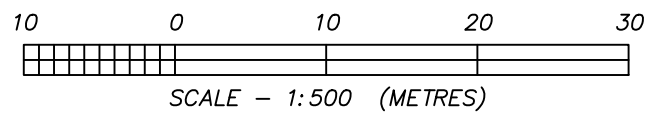
DATE: OCTOBER 20, 2011

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SHEET 5 OF 7

CROSS SECTIONS OF PART OF GARDEN BAY ROAD FROM STATIONS 0+000 TO 0+140.



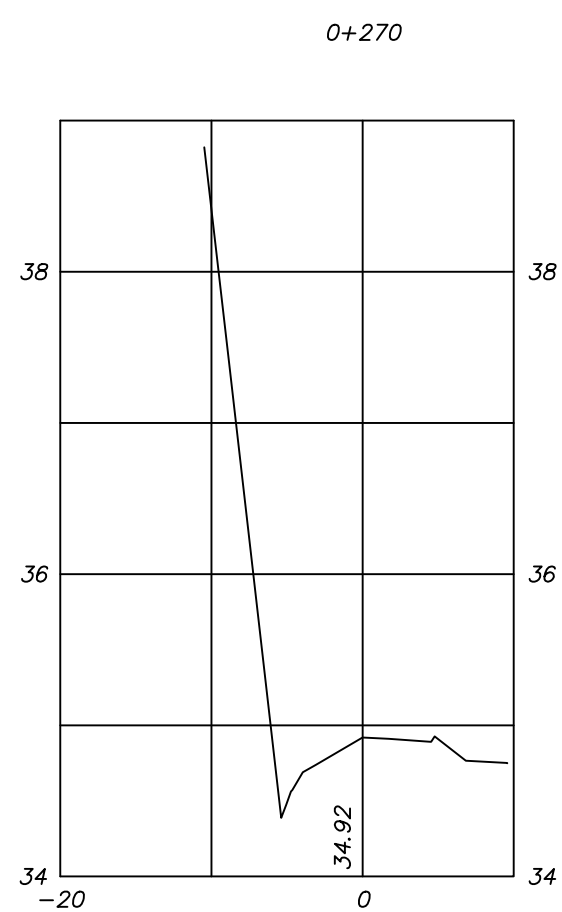
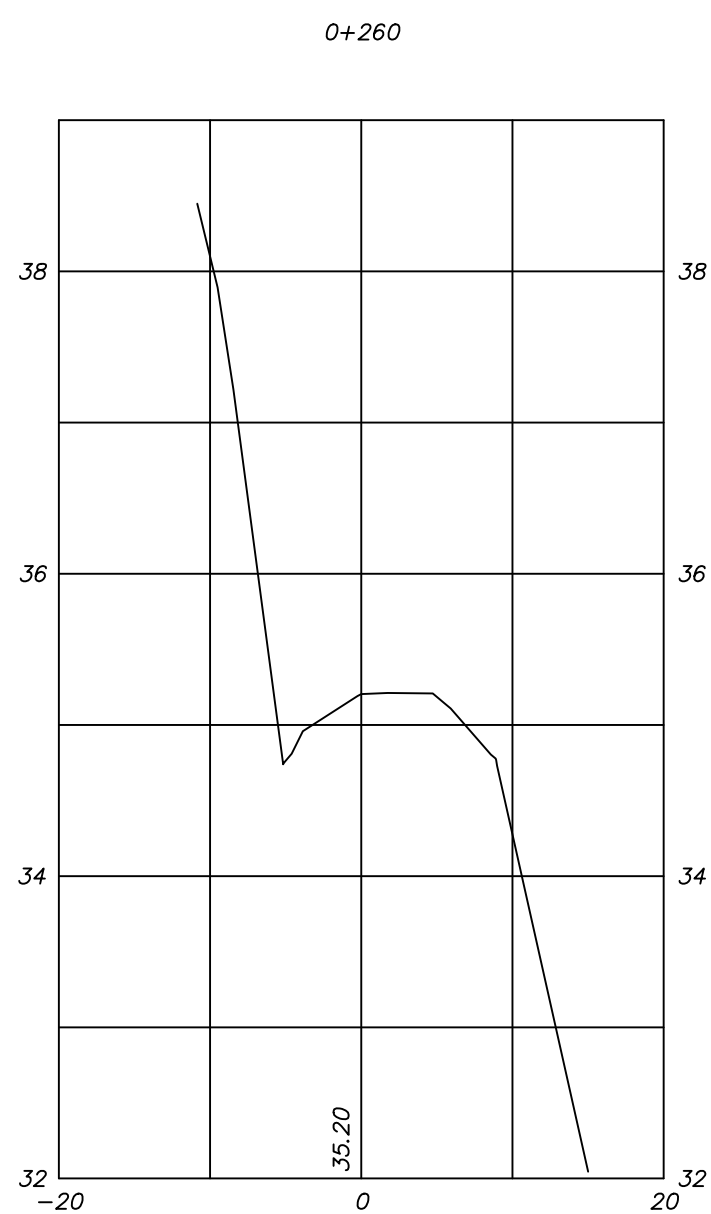
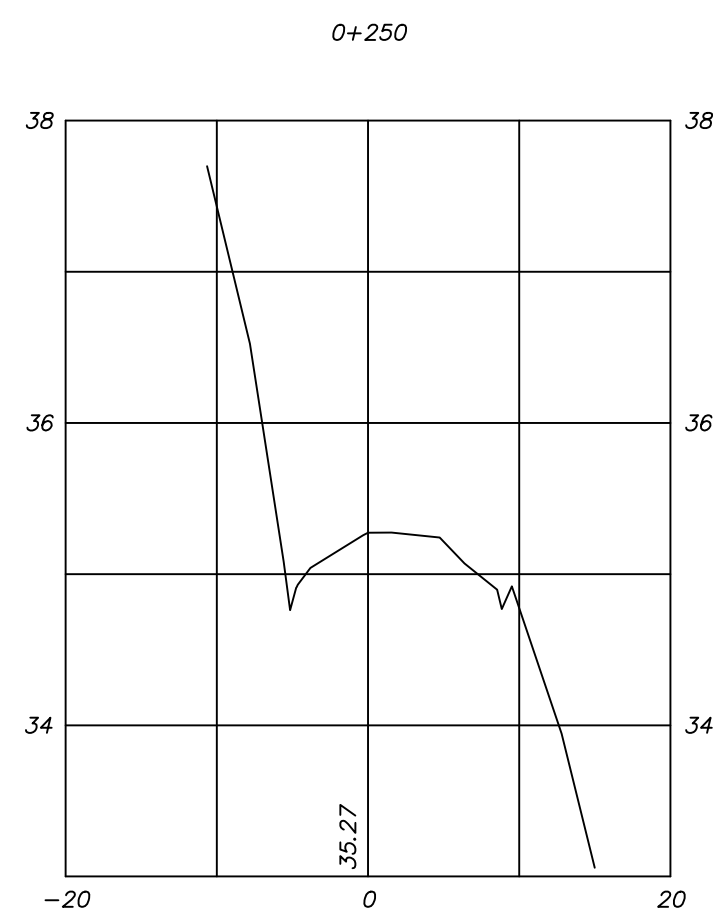
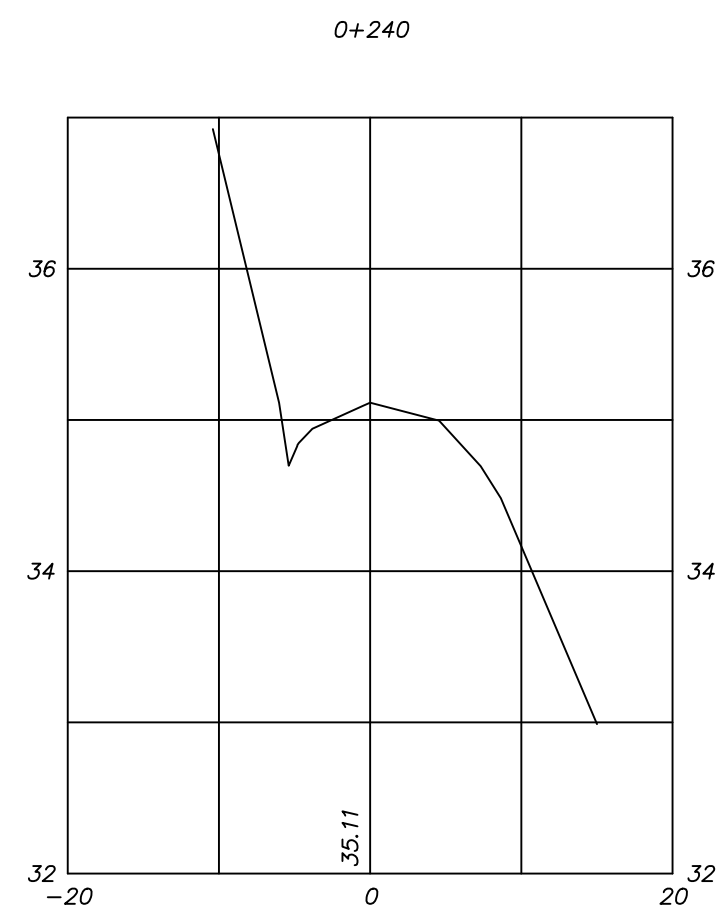
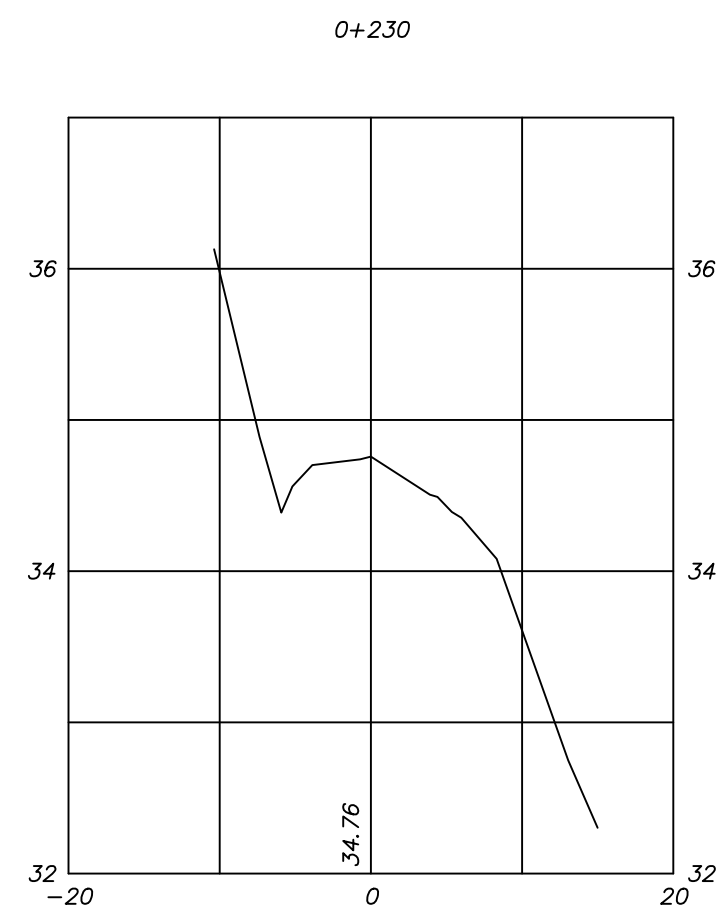
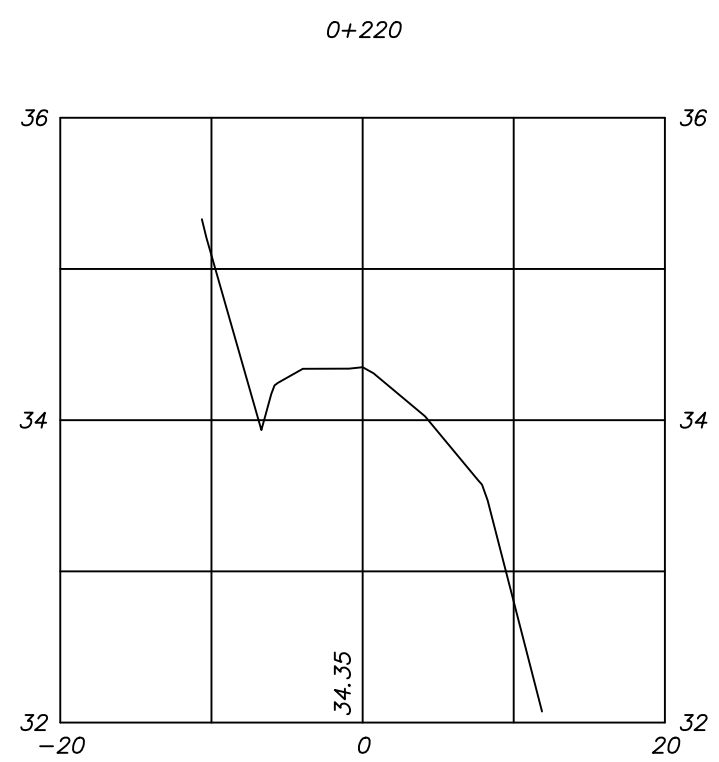
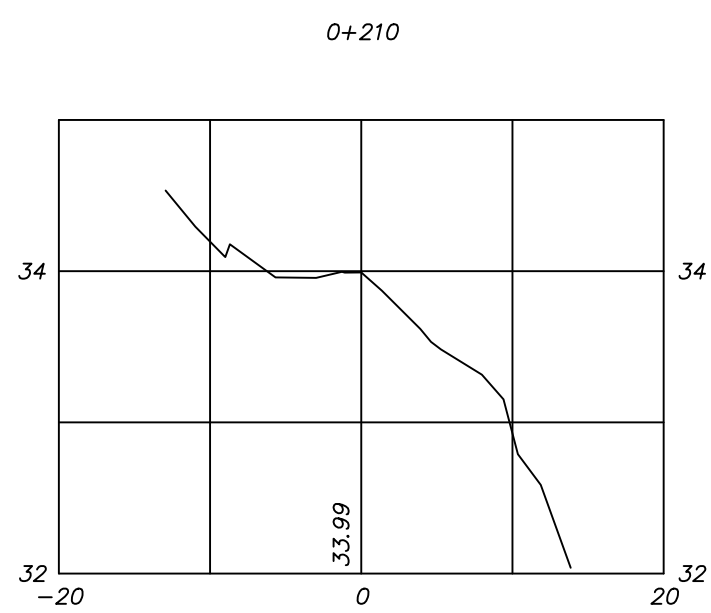
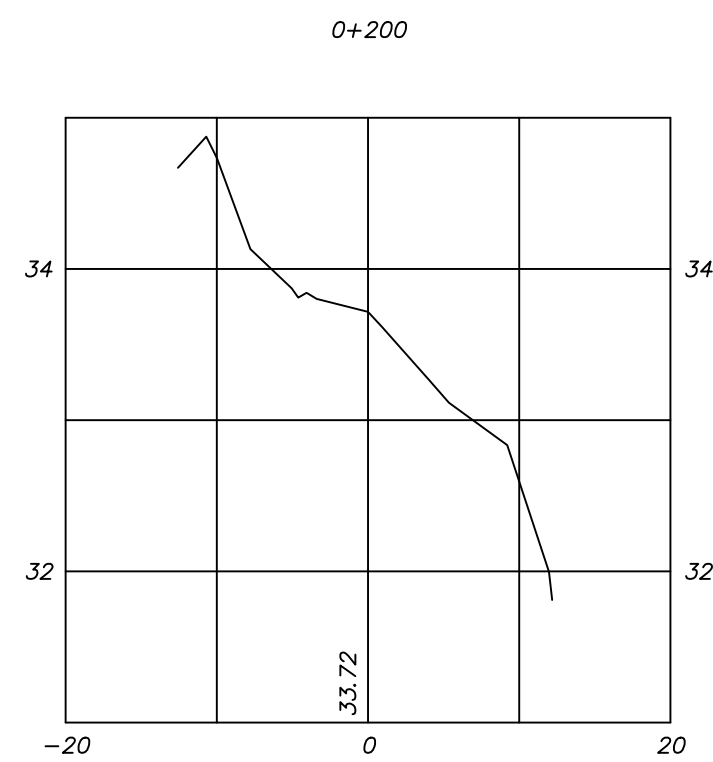
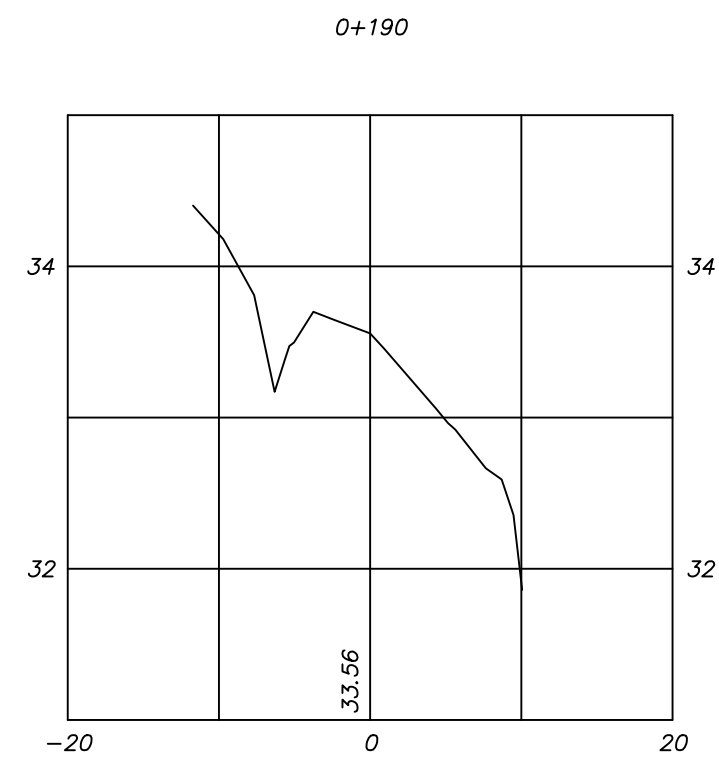
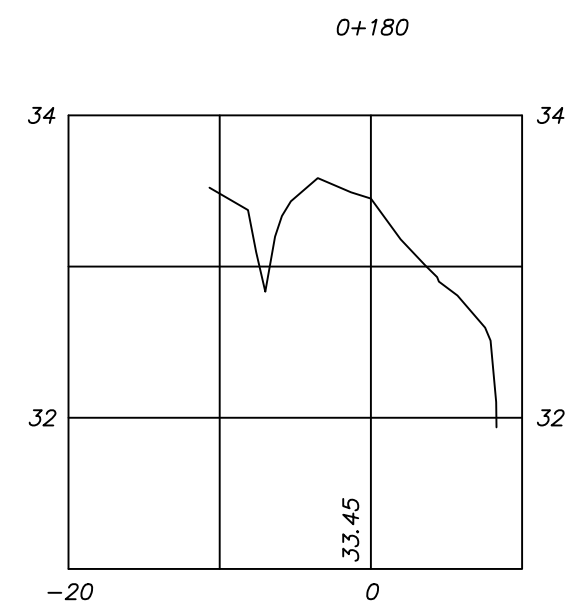
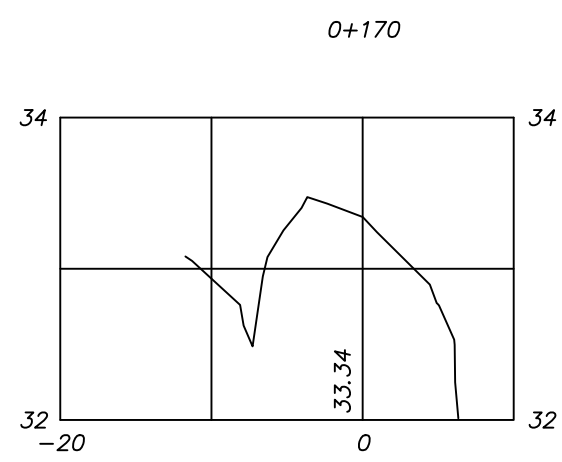
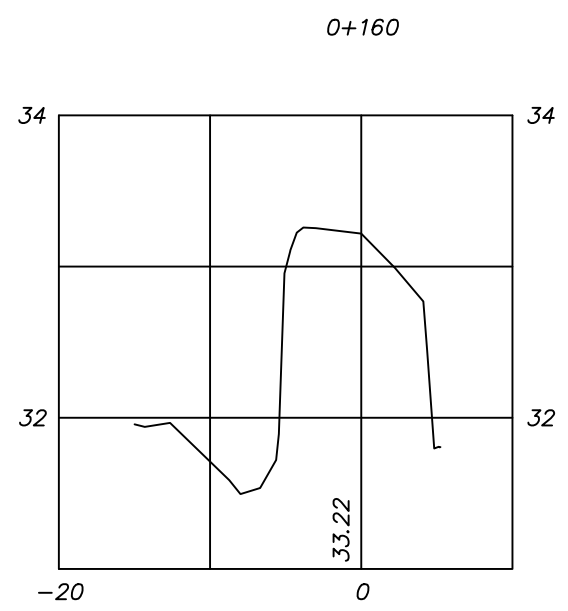
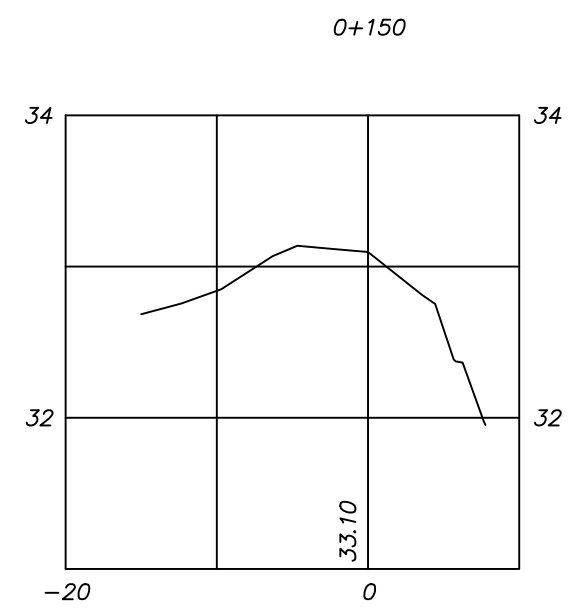
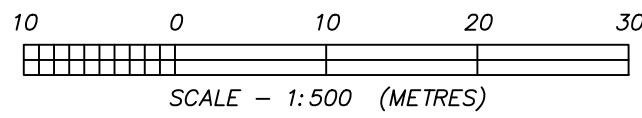
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SHEET 6 OF 7

CROSS SECTIONS OF PART OF GARDEN BAY ROAD FROM STATIONS 0+150 TO 0+270.



DATE: OCTOBER 20, 2011

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SHEET 7 OF 7