

STANDARD No. XXXXX

| Date | # | Revision | By | Design/Check | Verify |
|----------|---|---|-----|--------------|--------|
| 15 03 30 | 0 | PRELIMINARY: BASED ON LANDSCAPE PLAN REV'D # 2 DATED 15 03 30 | DKW | DKW | DKW |
| 15 10 13 | 1 | PRELIMINARY: REVISE TO SITE PLAN REV'D # 17 DATED 15 09 16 | DKW | DKW | DKW |

| Scale | Title/Title | Date | By/Pr | P.M./G.P. | Rev No./Rev |
|--------|--|----------|-------|-----------|-------------|
| N.T.S. | PROPOSED LANDSCAPE CONSTRUCTION DETAILS & CONSTRUCTION NOTES | 15 10 13 | DKW | DKW | 01 |

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1520L3R1

OCTOBER 13, 2015

GENERAL STRUCTURAL / CONCRETE NOTES:

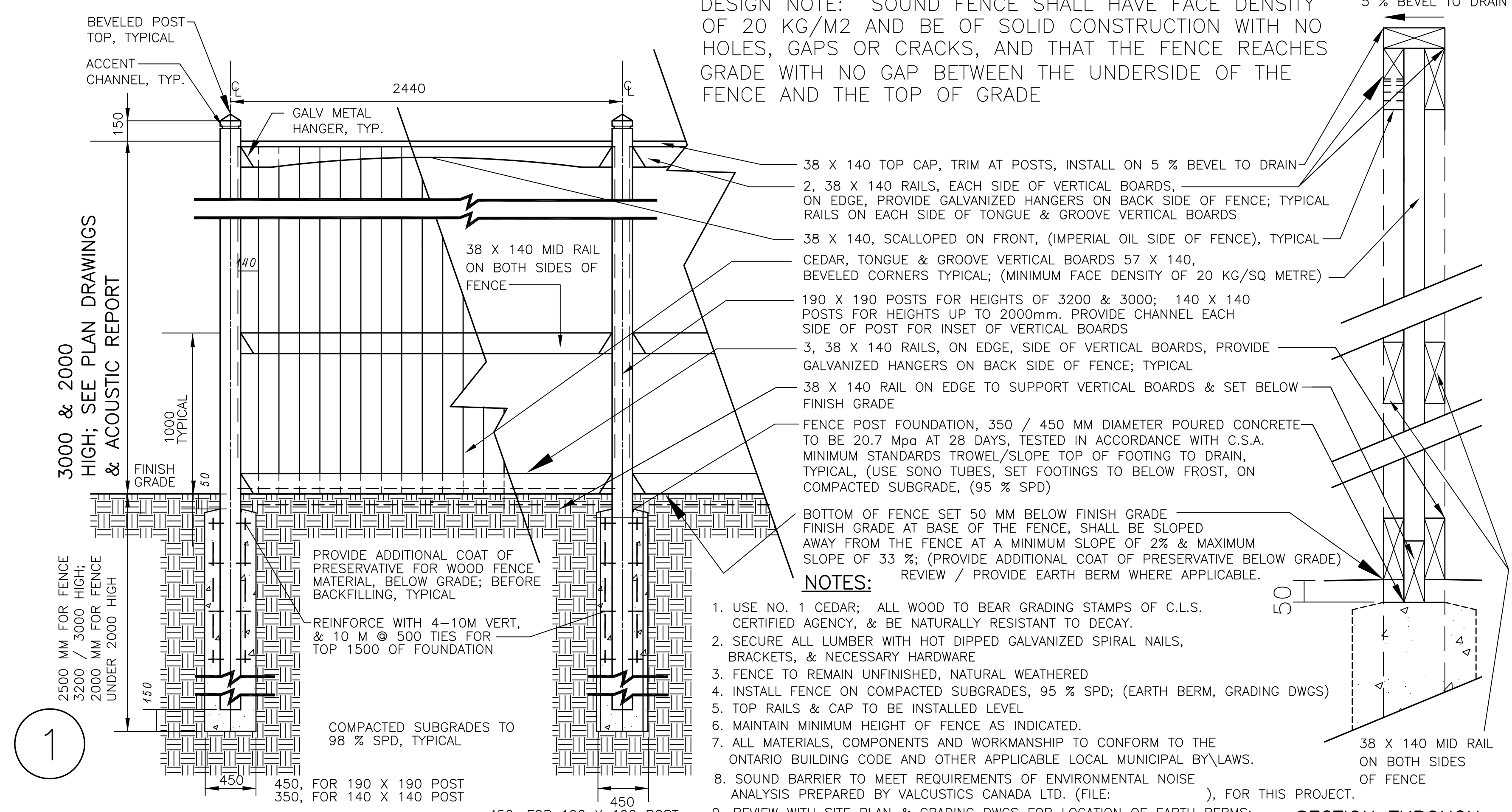
- THE WORK SHALL BE IN ACCORDANCE WITH THE ONTARIO BUILDING CODE ACT, 2006 (OBC) AND ALL SUBSEQUENT REGULATIONS MADE UNDER THE ACT PRIOR AND DURING CONSTRUCTION.
- THE CONTRACTOR SHALL AS PART OF HIS WORK CHECK AND VERIFY ALL DIMENSION AND REPORT ANY DISCREPANCIES TO THE ENGINEER BEFORE PRECEDING WITH CONSTRUCTION.
- CLARIFY ANY QUESTION REGARDING INTERPRETATION OF THE DRAWINGS AND PROCEED ONLY WHEN THE REQUIREMENTS OF THE PROJECT ARE FULLY UNDERSTOOD.

CONCRETE

- CONCRETE CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS OF THE LATEST ISSUE OF CSA - A.23.1 AND A23.2.
- COORDINATE ARCHITECTURAL AND STRUCTURAL DRAWINGS WHERE THIS AFFECTS THE WORK.
- CONCRETE MIX:
 - STRUCTURAL CONCRETE:
 - CEMENT: A MINIMUM OF 340 KG/M³ OF CEMENTITIOUS MATERIAL USING 70% PORTLAND CEMENT AND 30% SLAG CEMENT. TOTAL CEMENTITIOUS NOT TO EXCEED 360 KG/M³ WITHOUT THE ENGINEER'S APPROVAL.
 - STRENGTH: 32 MPa MINIMUM AT 28 DAYS.
 - ESPOSURE: CLASS F-1, WITH A MAXIMUM WATER-CEMENT RATIO OF 0.38
 - COARSE AGGREGATE: 20 MM NOMINAL.
 - SLUMP: 70 MM +/- 20 MM (AFTER ADDITION OF WRA).
 - AIR CONTENT: 6.5% +/- 1.5% AT DISCHARGE.
 - ADMIXTURES: AIR ENTRAINING AGENT QUANTITY TO BE DETERMINED BY SUPPLIER.
- REINFORCING STEEL SHALL CONFORM TO CSA G30.12M - 1977 GRADE 400.
- CONCRETE COVER:
 - PROTECT ALL REINFORCING STEEL BY THICKNESS OF CONCRETE SPECIFIED ON THE DRAWINGS AND/OR AS FOLLOWS:

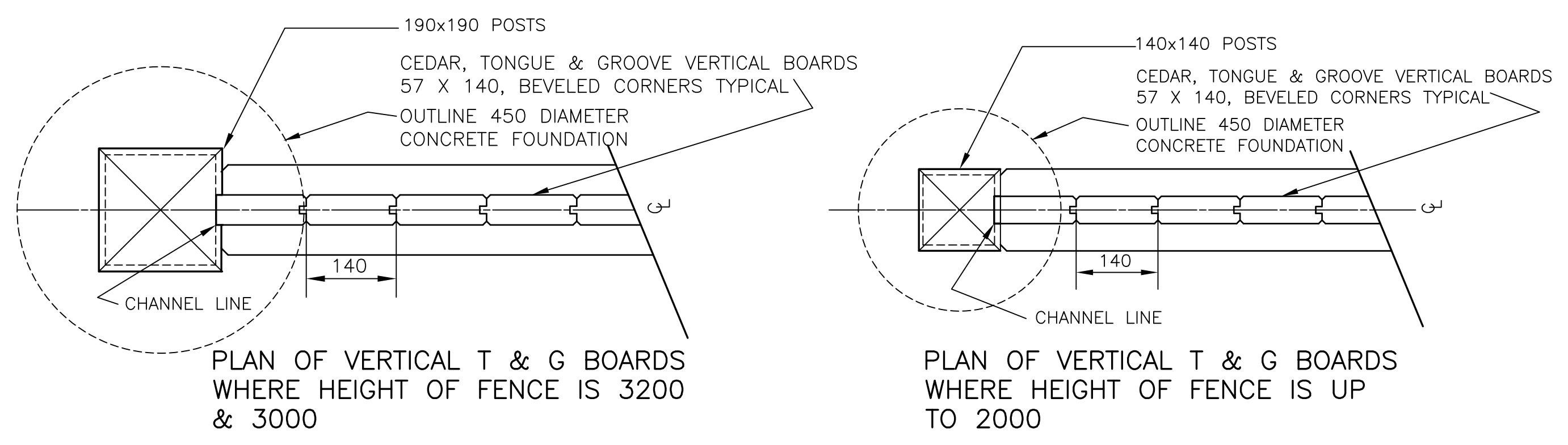
| LOCATION | COVER |
|--|----------------|
| (i) CONCRETE DEPOSITED AGAINST THE GROUND WITHOUT FORMS | 75 MM +/- 8 MM |
| (ii) CONCRETE EXPOSED TO WEATHER, WATER OR GROUND AFTER REMOVAL OF FORMS | 50 MM +/- 8 MM |
- MINIMUM LAP LENGTHS OF REINFORCING STEEL SHALL BE
 - 15 M BARS - 640 MM (25")
 - 20 M BARS - 780 MM (30")
- CHAMFER ALL EXPOSED CORNERS AND EDGES WITH A 20 MM BY 45 DEGREE CHAMFER.

DESIGN NOTE: SOUND FENCE SHALL HAVE FACE DENSITY OF 20 KG/M² AND BE OF SOLID CONSTRUCTION WITH NO HOLES, GAPS OR CRACKS, AND THAT THE FENCE REACHES GRADE WITH NO GAP BETWEEN THE UNDERSIDE OF THE FENCE AND THE TOP OF GRADE



- NOTES:**
- USE NO. 1 CEDAR; ALL WOOD TO BEAR GRADING STAMPS OF C.L.S. CERTIFIED AGENCY, & BE NATURALLY RESISTANT TO DECAY.
 - SECURE ALL LUMBER WITH HOT DIPPED GALVANIZED SPIRAL NAILS, BRACKETS, & NECESSARY HARDWARE
 - FENCE TO REMAIN UNFINISHED, NATURAL WEATHERED
 - INSTALL FENCE ON COMPACTED SUBGRADES, 95% SPD; (EARTH BERM, GRADING DWGS)
 - TOP RAILS & CAP TO BE INSTALLED LEVEL
 - MAINTAIN MINIMUM HEIGHT OF FENCE AS INDICATED.
 - ALL MATERIALS, COMPONENTS AND WORKMANSHIP TO CONFORM TO THE ONTARIO BUILDING CODE AND OTHER APPLICABLE LOCAL MUNICIPAL BY-LAWS.
 - SOUND BARRIER TO MEET REQUIREMENTS OF ENVIRONMENTAL NOISE ANALYSIS PREPARED BY VALCUSTICS CANADA LTD. (FILE: _____), FOR THIS PROJECT.
 - REVIEW WITH SITE PLAN & GRADING DWGS FOR LOCATION OF EARTH BERMS;
 - SOUND BARRIER SHALL HAVE A MINIMUM FACE DENSITY OF 20 KG/SQ METRE.

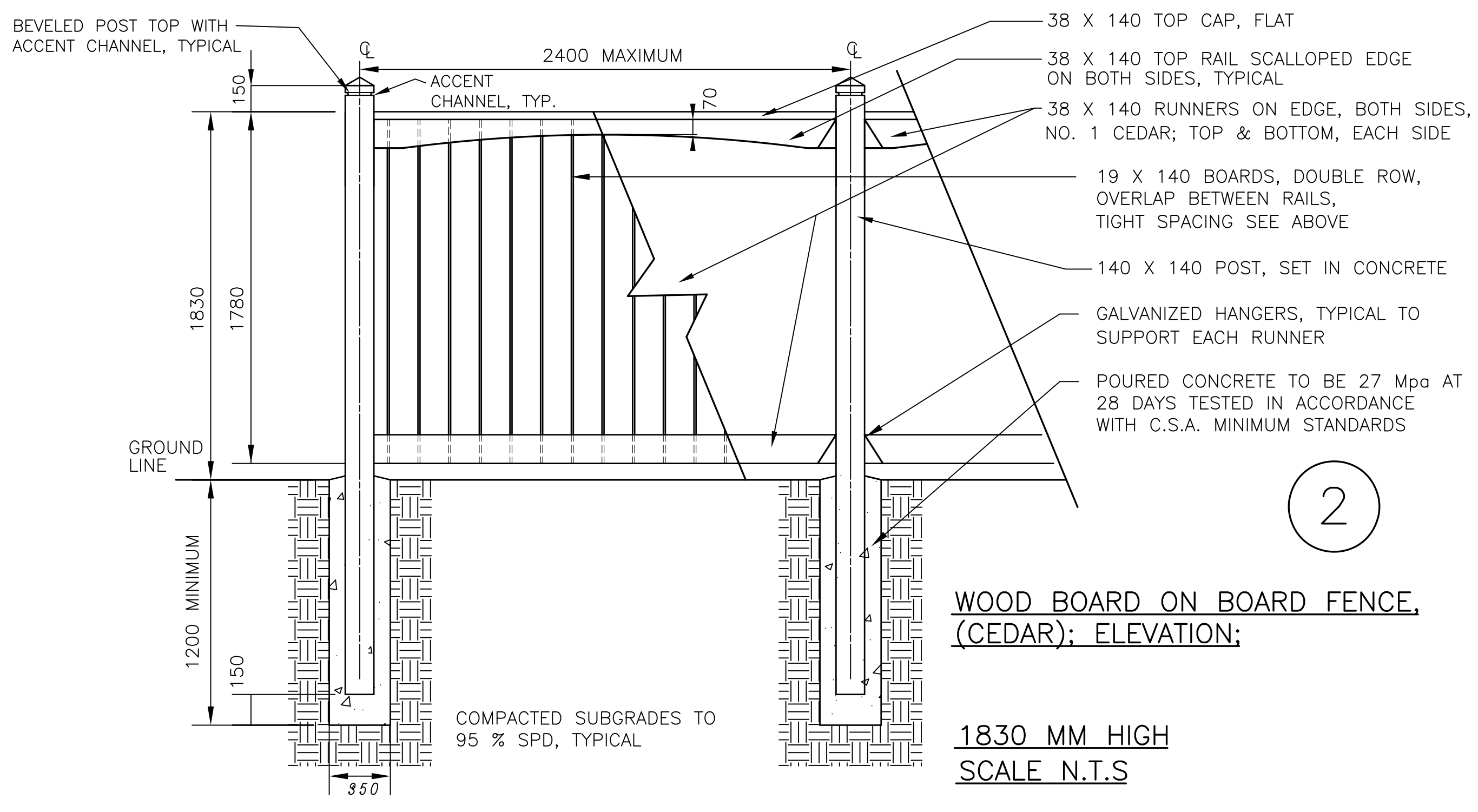
SOLID WOOD SOUND BARRIER; 3000 / 2000 HIGH; 57 MM THICK, VERTICAL T & G CEDAR BOARDS; SCALE: N.T.S.



PRELIMINARY, FOR REVIEW / APPROVAL BY STRUCTURAL ENGINEER

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WOOD BOARD ON BOARD FENCE, (CEDAR); ELEVATION; 1830 MM HIGH SCALE: N.T.S.

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Version: 3.0