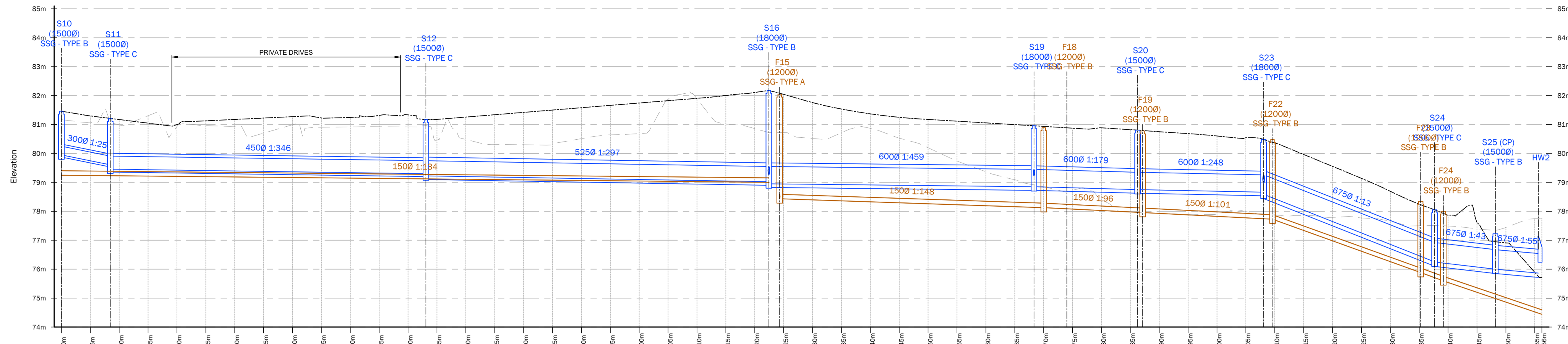


DO NOT SCALE FROM THIS DRAWING

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

- ADOPTABLE DRAINAGE NOTES:
- THIS DRAWING IS SUBJECT TO APPROVAL BY LOCAL AUTHORITY, BUILDING CONTROL AND / OR SEWERAGE UNDERTAKER. ANY WORKS UNDERTAKEN PRIOR TO THE GRANTING OF THESE APPROVALS IS CARRIED OUT AT AT RISK TO OTHERS.
 - PRIOR TO COMMENCING WORK ON THE DRAINAGE, ALL EXISTING DRAINS, SEWERS MANHOLES AND OUTFALLS TO REMAIN SHALL BE LOCATED, IDENTIFIED AND A CCTV CONDITION SURVEY CARRIED OUT, WHERE NECESSARY, PROTECTION TO THE EXISTING DRAINAGE INFRASTRUCTURE SHALL BE PROVIDED.
 - ALL EXISTING SEWERS AND MANHOLES ABANDONED DUE TO THE PROPOSED WORKS ARE TO BE EITHER REMOVED, AND SUITABLY BACKFILLED OR GROUTED UP.
 - ALL MANHOLE COVERS TO COMPLY WITH BS EN 124, AND BE KITEMARKED.
 - COVER LEVELS FOR MANHOLES ARE APPROXIMATE ONLY AND SHOULD BE ADJUSTED TO MATCH SURROUNDING LEVELS.
 - IN BLOCK PAVED AREAS 'INFILL' TYPE COVERS SHOULD NOT BE USED, AND FRAMES MUST BE 150MM DEEP.
 - ALL MANHOLE AND DRAINAGE COVERS SHALL COMPLY WITH BS EN 124, BS EN 13598-1 AND H410409. COVER STRENGTHS TO BE:-
CLASS E600 IN AREAS OF HEAVY LOADING.
CLASS D400 IN ALL TRAFFICKED AREAS (ROADS, HARD SHOULDER, PARKING AREAS AND SERVICES YARDS); MANHOLE COVERS ON FOUL ONLY SEWERS SHALL BE OF LOW LEAKAGE TYPES IN ORDER TO PREVENT EXCESSIVE SURFACE WATER INGRESS.
 - DRAINAGE PIPES 100MM Ø UNLESS STATED OTHERWISE. PIPES TO BE - VITRIFIED CLAY TO BS EN 295 OR CONCRETE TO BS 5911 OR UPVC PIPES TO BS EN 1452 OR THERMOPLASTIC STRUCTURED WALL PIPES COMPLYING WITH WIS 4-35-01. BS1 KITEMARKED. CLASS 8KMM NOMINAL SHORT TERM RING STIFFNESS.
 - ALL SEWER PIPES 300MM DIAMETER OR LARGER, TO BE CONCRETE PIPES, TO BS 5911, UNLESS NOTED OTHERWISE.
 - ALL PIPES TO BE LAID WITH SOFFITS LEVEL, UNLESS NOTED OTHERWISE.
 - WHERE COVER TO PIPES IS LESS THAN 1200MM UNDER CARRIAGEWAY - CONCRETE BED AND SURROUND OR CONCRETE PROTECTION SLAB IS REQUIRED.
 - ALL CONCRETE TO DRAINAGE, MANHOLES BASES, SURROUNDS ETC TO BE IN ACCORDANCE WITH THE BRE SPECIAL DIGEST 1 - CONCRETE IN AGGRESSIVE GROUND. REFER TO SITE INVESTIGATION REPORT FOR SULPHATE REQUIREMENTS.
 - ALL MANHOLES, PIPE TRENCHES ETC. TO BE BACKFILLED WITH IMPORTED GRANULAR FILL TO CLASS 6F1-6F5 (CAPPING MATERIAL) TO (SHW) TABLE 6/1 & COMPACTED IN ACCORDANCE WITH TABLE 6/4.
 - ALL PIPELINES SHALL BE TESTED BOTH BEFORE AND AFTER BACKFILLING, USING EITHER AIR TEST OR WATER TEST, IN ACCORDANCE WITH BS EN 1610.
 - UPON COMPLETION OF THE DRAINAGE WORKS ALL DRAINS SHALL BE FLUSHED OUT AND CCTV SURVEYED AND SHOWN TO BE FREE OF ALL SILT AND DEBRIS AND TO HAVE NO JOINT DISPLACEMENTS OR OTHER DEFECTS. A COPY OF THE WRITTEN REPORT AND VIDEO IS TO BE FORWARDED TO THE ENGINEERS FOR COMMENT. ANY DEFECTS SHALL BE ATTRIBUTABLE TO THE CONTRACTOR FOR RECTIFICATION UNLESS INDICATED OTHERWISE BY THE CCTV REPORT AND AGREED WITH THE ENGINEERS.
 - ADOPTABLE DEMARCATION MANHOLES AND LATERAL DRAINS NEED TO BE CONSTRUCTED IN ACCORDANCE WITH THE CURRENT WATER UKIWR "SEWERAGE SECTOR GUIDANCE - APPENDIX C".
 - ALL WORKS TO SEWERS/MANHOLES BEING OFFERED FOR ADOPTION OR ON EXISTING PUBLIC SEWERS SHOULD BE IN ACCORDANCE WITH "SEWERAGE SECTOR GUIDANCE - APPENDIX C" AND THE ADOPTING WATER AUTHORITIES RECOMMENDATIONS.



EXISTING LEVELS	FINISHED LEVELS	STORM PIPE DETAILS	STORM PIPE MATERIAL
84.40, 84.34, 84.29, 84.24, 84.17, 84.12, 84.08, 84.04, 84.00, 83.96, 83.92, 83.88, 83.84, 83.80, 83.76, 83.72, 83.68, 83.64, 83.60, 83.56, 83.52, 83.48, 83.44, 83.40, 83.36, 83.32, 83.28, 83.24, 83.20, 83.16, 83.12, 83.08, 83.04, 83.00, 82.96, 82.92, 82.88, 82.84, 82.80, 82.76, 82.72, 82.68, 82.64, 82.60, 82.56, 82.52, 82.48, 82.44, 82.40, 82.36, 82.32, 82.28, 82.24, 82.20, 82.16, 82.12, 82.08, 82.04, 82.00, 81.96, 81.92, 81.88, 81.84, 81.80, 81.76, 81.72, 81.68, 81.64, 81.60, 81.56, 81.52, 81.48, 81.44, 81.40, 81.36, 81.32, 81.28, 81.24, 81.20, 81.16, 81.12, 81.08, 81.04, 81.00, 80.96, 80.92, 80.88, 80.84, 80.80, 80.76, 80.72, 80.68, 80.64, 80.60, 80.56, 80.52, 80.48, 80.44, 80.40, 80.36, 80.32, 80.28, 80.24, 80.20, 80.16, 80.12, 80.08, 80.04, 79.96, 79.92, 79.88, 79.84, 79.80, 79.76, 79.72, 79.68, 79.64, 79.60, 79.56, 79.52, 79.48, 79.44, 79.40, 79.36, 79.32, 79.28, 79.24, 79.20, 79.16, 79.12, 79.08, 79.04, 79.00, 78.96, 78.92, 78.88, 78.84, 78.80, 78.76, 78.72, 78.68, 78.64, 78.60, 78.56, 78.52, 78.48, 78.44, 78.40, 78.36, 78.32, 78.28, 78.24, 78.20, 78.16, 78.12, 78.08, 78.04, 78.00, 77.96, 77.92, 77.88, 77.84, 77.80, 77.76, 77.72, 77.68, 77.64, 77.60, 77.56, 77.52, 77.48, 77.44, 77.40, 77.36, 77.32, 77.28, 77.24, 77.20, 77.16, 77.12, 77.08, 77.04, 77.00, 76.96, 76.92, 76.88, 76.84, 76.80, 76.76, 76.72, 76.68, 76.64, 76.60, 76.56, 76.52, 76.48, 76.44, 76.40, 76.36, 76.32, 76.28, 76.24, 76.20, 76.16, 76.12, 76.08, 76.04, 76.00, 75.96, 75.92, 75.88, 75.84, 75.80, 75.76, 75.72, 75.68, 75.64, 75.60, 75.56, 75.52, 75.48, 75.44, 75.40, 75.36, 75.32, 75.28, 75.24, 75.20, 75.16, 75.12, 75.08, 75.04, 75.00, 74.96, 74.92, 74.88, 74.84, 74.80, 74.76, 74.72, 74.68, 74.64, 74.60, 74.56, 74.52, 74.48, 74.44, 74.40, 74.36, 74.32, 74.28, 74.24, 74.20, 74.16, 74.12, 74.08, 74.04, 74.00, 73.96, 73.92, 73.88, 73.84, 73.80, 73.76, 73.72, 73.68, 73.64, 73.60, 73.56, 73.52, 73.48, 73.44, 73.40, 73.36, 73.32, 73.28, 73.24, 73.20, 73.16, 73.12, 73.08, 73.04, 73.00, 72.96, 72.92, 72.88, 72.84, 72.80, 72.76, 72.72, 72.68, 72.64, 72.60, 72.56, 72.52, 72.48, 72.44, 72.40, 72.36, 72.32, 72.28, 72.24, 72.20, 72.16, 72.12, 72.08, 72.04, 72.00, 71.96, 71.92, 71.88, 71.84, 71.80, 71.76, 71.72, 71.68, 71.64, 71.60, 71.56, 71.52, 71.48, 71.44, 71.40, 71.36, 71.32, 71.28, 71.24, 71.20, 71.16, 71.12, 71.08, 71.04, 71.00, 70.96, 70.92, 70.88, 70.84, 70.80, 70.76, 70.72, 70.68, 70.64, 70.60, 70.56, 70.52, 70.48, 70.44, 70.40, 70.36, 70.32, 70.28, 70.24, 70.20, 70.16, 70.12, 70.08, 70.04, 70.00, 69.96, 69.92, 69.88, 69.84, 69.80, 69.76, 69.72, 69.68, 69.64, 69.60, 69.56, 69.52, 69.48, 69.44, 69.40, 69.36, 69.32, 69.28, 69.24, 69.20, 69.16, 69.12, 69.08, 69.04, 69.00, 68.96, 68.92, 68.88, 68.84, 68.80, 68.76, 68.72, 68.68, 68.64, 68.60, 68.56, 68.52, 68.48, 68.44, 68.40, 68.36, 68.32, 68.28, 68.24, 68.20, 68.16, 68.12, 68.08, 68.04, 68.00, 67.96, 67.92, 67.88, 67.84, 67.80, 67.76, 67.72, 67.68, 67.64, 67.60, 67.56, 67.52, 67.48, 67.44, 67.40, 67.36, 67.32, 67.28, 67.24, 67.20, 67.16, 67.12, 67.08, 67.04, 67.00, 66.96, 66.92, 66.88, 66.84, 66.80, 66.76, 66.72, 66.68, 66.64, 66.60, 66.56, 66.52, 66.48, 66.44, 66.40, 66.36, 66.32, 66.28, 66.24, 66.20, 66.16, 66.12, 66.08, 66.04, 66.00, 65.96, 65.92, 65.88, 65.84, 65.80, 65.76, 65.72, 65.68, 65.64, 65.60, 65.56, 65.52, 65.48, 65.44, 65.40, 65.36, 65.32, 65.28, 65.24, 65.20, 65.16, 65.12, 65.08, 65.04, 65.00, 64.96, 64.92, 64.88, 64.84, 64.80, 64.76, 64.72, 64.68, 64.64, 64.60, 64.56, 64.52, 64.48, 64.44, 64.40, 64.36, 64.32, 64.28, 64.24, 64.20, 64.16, 64.12, 64.08, 64.04, 64.00, 63.96, 63.92, 63.88, 63.84, 63.80, 63.76, 63.72, 63.68, 63.64, 63.60, 63.56, 63.52, 63.48, 63.44, 63.40, 63.36, 63.32, 63.28, 63.24, 63.20, 63.16, 63.12, 63.08, 63.04, 63.00, 62.96, 62.92, 62.88, 62.84, 62.80, 62.76, 62.72, 62.68, 62.64, 62.60, 62.56, 62.52, 62.48, 62.44, 62.40, 62.36, 62.32, 62.28, 62.24, 62.20, 62.16, 62.12, 62.08, 62.04, 62.00, 61.96, 61.92, 61.88, 61.84, 61.80, 61.76, 61.72, 61.68, 61.64, 61.60, 61.56, 61.52, 61.48, 61.44, 61.40, 61.36, 61.32, 61.28, 61.24, 61.20, 61.16, 61.12, 61.08, 61.04, 61.00, 60.96, 60.92, 60.88, 60.84, 60.80, 60.76, 60.72, 60.68, 60.64, 60.60, 60.56, 60.52, 60.48, 60.44, 60.40, 60.36, 60.32, 60.28, 60.24, 60.20, 60.16, 60.12, 60.08, 60.04, 60.00, 59.96, 59.92, 59.88, 59.84, 59.80, 59.76, 59.72, 59.68, 59.64, 59.60, 59.56, 59.52, 59.48, 59.44, 59.40, 59.36, 59.32, 59.28, 59.24, 59.20, 59.16, 59.12, 59.08, 59.04, 59.00, 58.96, 58.92, 58.88, 58.84, 58.80, 58.76, 58.72, 58.68, 58.64, 58.60, 58.56, 58.52, 58.48, 58.44, 58.40, 58.36, 58.32, 58.28, 58.24, 58.20, 58.16, 58.12, 58.08, 58.04, 58.00, 57.96, 57.92, 57.88, 57.84, 57.80, 57.76, 57.72, 57.68, 57.64, 57.60, 57.56, 57.52, 57.48, 57.44, 57.40, 57.36, 57.32, 57.28, 57.24, 57.20, 57.16, 57.12, 57.08, 57.04, 57.00, 56.96, 56.92, 56.88, 56.84, 56.80, 56.76, 56.72, 56.68, 56.64, 56.60, 56.56, 56.52, 56.48, 56.44, 56.40, 56.36, 56.32, 56.28, 56.24, 56.20, 56.16, 56.12, 56.08, 56.04, 56.00, 55.96, 55.92, 55.88, 55.84, 55.80, 55.76, 55.72, 55.68, 55.64, 55.60, 55.56, 55.52, 55.48, 55.44, 55.40, 55.36, 55.32, 55.28, 55.24, 55.20, 55.16, 55.12, 55.08, 55.04, 55.00, 54.96, 54.92, 54.88, 54.84, 54.80, 54.76, 54.72, 54.68, 54.64, 54.60, 54.56, 54.52, 54.48, 54.44, 54.40, 54.36, 54.32, 54.28, 54.24, 54.20, 54.16, 54.12, 54.08, 54.04, 54.00, 53.96, 53.92, 53.88, 53.84, 53.80, 53.76, 53.72, 53.68, 53.64, 53.60, 53.56, 53.52, 53.48, 53.44, 53.40, 53.36, 53.32, 53.28, 53.24, 53.20, 53.16, 53.12, 53.08, 53.04, 53.00, 52.96, 52.92, 52.88, 52.84, 52.80, 52.76, 52.72, 52.68, 52.64, 52.60, 52.56, 52.52, 52.48, 52.44, 52.40, 52.36, 52.32, 52.28, 52.24, 52.20, 52.16, 52.12, 52.08, 52.04, 52.00, 51.96, 51.92, 51.88, 51.84, 51.80, 51.76, 51.72, 51.68, 51.64, 51.60, 51.56, 51.52, 51.48, 51.44, 51.40, 51.36, 51.32, 51.28, 51.24, 51.20, 51.16, 51.12, 51.08, 51.04, 51.00, 50.96, 50.92, 50.88, 50.84, 50.80, 50.76, 50.72, 50.68, 50.64, 50.60, 50.56, 50.52, 50.48, 50.44, 50.40, 50.36, 50.32, 50.28, 50.24, 50.20, 50.16, 50.12, 50.08, 50.04, 50.00, 49.96, 49.92, 49.88, 49.84, 49.80, 49.76, 49.72, 49.68, 49.64, 49.60, 49.56, 49.52, 49.48, 49.44, 49.40, 49.36, 49.32, 49.28, 49.24, 49.20, 49.16, 49.12, 49.08, 49.04, 49.00, 48.96, 48.92, 48.88, 48.84, 48.80, 48.76, 48.72, 48.68, 48.64, 48.60, 48.56, 48.52, 48.48, 48.44, 48.40, 48.36, 48.32, 48.28, 48.24, 48.20, 48.16, 48.12, 48.08, 48.04, 48.00, 47.96, 47.92, 47.88, 47.84, 47.80, 47.76, 47.72, 47.68, 47.64, 47.60, 47.56, 47.52, 47.48, 47.44, 47.40, 47.36, 47.32, 47.28, 47.24, 47.20, 47.16, 47.12, 47.08, 47.04, 47.00, 46.96, 46.92, 46.88, 46.84, 46.80, 46.76, 46.72, 46.68, 46.64, 46.60, 46.56, 46.52, 46.48, 46.44, 46.40, 46.36, 46.32, 46.28, 46.24, 46.20, 46.16, 46.12, 46.08, 46.04, 46.00, 45.96, 45.92, 45.88, 45.84, 45.80, 45.76, 45.72, 45.68, 45.64, 45.60, 45.56, 45.52, 45.48, 45.44, 45.40, 45.36, 45.32, 45.28, 45.24, 45.20, 45.16, 45.12, 45.08, 45.04, 45.00, 44.96, 44.92, 44.88, 44.84, 44.80, 44.76, 44.72, 44.68, 44.64, 44.60, 44.56, 44.52, 44.48, 44.44, 44.40, 44.36, 44.32, 44.28, 44.24, 44.20, 44.16, 44.12, 44.08, 44.04, 44.00, 43.96, 43.92, 43.88, 43.84, 43.80, 43.76, 43.72, 43.68, 43.64, 43.60, 43.56, 43.52, 43.48, 43.44, 43.40, 43.36, 43.32, 43.28, 43.24, 43.20, 43.16, 43.12, 43.08, 43.04, 43.00, 42.96, 42.92, 42.88, 42.84, 42.80, 42.76, 42.72, 42.68, 42.64, 42.60, 42.56, 42.52, 42.48, 42.44, 42.40, 42.36, 42.32, 42.28, 42.24, 42.20, 42.16, 42.12, 42.08, 42.04, 42.00, 41.96, 41.92, 41.88, 41.84, 41.80, 41.76, 41.72, 41.68, 41.64, 41.60, 41.56, 41.52, 41.48, 41.44, 41.40, 41.36, 41.32, 41.28, 41.24, 41.20, 41.16, 41.12, 41.08, 41.04, 41.00, 40.96, 40.92, 40.88, 40.84, 40.80, 40.76, 40.72, 40.68, 40.64, 40.60, 40.56, 40.52, 40.48, 40.44, 40.40, 40.36, 40.32, 40.28, 40.24, 40.20, 40.16, 40.12, 40.08, 40.04, 40.00, 39.96, 39.92, 39.88, 39.84, 39.80, 39.76, 39.72, 39.68, 39.64, 39.60, 39.56, 39.52, 39.48, 39.44, 39.40, 39.36, 39.32, 39.28, 39.24, 39.20, 39.16, 39.12, 39.08, 39.04, 39.00, 38.96, 38.92, 38.88, 38.84, 38.80, 38.76, 38.72, 38.68, 38.64, 38.60, 38.56, 38.52, 38.48, 38.44, 38.40, 38.36, 38.32, 38.28, 38.24, 38.20, 38.16, 38.12, 38.08, 38.04, 38.00, 37.96, 37.92, 37.88, 37.84, 37.80, 37.76, 37.72, 37.68, 37.64, 37.60, 37.56, 37.52, 37.48, 37.44, 37.40, 37.36, 37.32, 37.28, 37.24, 37.20, 37.16, 37.12, 37.08, 37.04, 37.00, 36.96, 36.92, 36.88, 36.84, 36.80, 36.76, 36.72, 36.68, 36.64, 36.60, 36.56, 36.52, 36.48, 36.44, 36.40, 36.36, 36.32, 36.28, 36.24, 36.20, 36.16, 36.12, 36.08, 36.04, 36.00, 35.96, 35.92, 35.88, 35.84, 35.80, 35.76, 35.72, 35.68, 35.64, 35.60, 35.56, 35.52, 35.48, 35.44, 35.40, 35.36, 35.32, 35.28, 35.24, 35.20, 35.16, 35.12, 35.08, 35.04, 35.00, 34.96, 34.92, 34.88, 34.84, 34.80, 34.76, 34.72, 34.68, 34.64, 34.60, 34.56, 34.52, 34.48, 34.44, 34.40, 34.36, 34.32, 34.28, 34.24, 34.20, 34.16, 34.12, 34.08, 34.04, 34.00, 33.96, 33.92, 33.88, 33.84, 33.80, 33.76, 33.72, 33.68, 33.64, 33.60, 33.56, 33.52, 33.48, 33.44, 33.40, 33.36, 33.32, 33.28, 33.24, 33.20, 33.16, 33.12, 33.08, 33.04, 33.00, 32.96, 32.92, 32.88, 32.84, 32.80, 32.76, 32.72, 32.68, 32.64, 32.60, 32.56, 32.52, 32.48, 32.44, 32.40, 32.36, 32.32, 32.28, 32.24, 32.20, 32.16, 32.12, 32.08, 32.04, 32.00, 31.96, 31.92, 31.88, 31.84, 31.80, 31.76, 31.72, 31.68, 31.64, 31.60, 31.56, 31.52, 31.48, 31.44, 31.40, 31.36, 31.32, 31.28, 31.24, 31.20, 31.16, 31.12, 31.08, 31.04, 31.00, 30.96, 30.92, 30.88, 30.84, 30.80, 30.76, 30.72, 30.68, 30.64, 30.60, 30.56, 30.52, 30.48, 30.44, 30.40, 30.36, 30.32, 30.28, 30.24, 30.20, 30.16, 30.12, 30.08, 30.04, 30.00, 29.96, 29.92, 29.88, 29.84, 29.80, 29.76, 29.72, 29.68, 29.64, 29.60, 29.56, 29.52, 29.48, 29.44, 29.40, 29.36, 29.32, 29.28, 29.24, 29.20, 29.16, 29.12, 29.08, 29.04, 29.00, 28.96, 28.92, 28.88, 28.84, 28.80, 28.76, 28.72, 28.68, 28.64, 28.60, 28.56, 28.52, 28.48, 28.44, 28.40, 28.36, 28.32, 28.28, 28.24, 28.20, 28.16, 28.12, 28.08, 28.04, 28.00, 27.96, 27.92, 27.88, 27.84, 27.80, 27.76, 27.72, 27.68, 27.64, 27.60, 27.56, 27.52, 27.48, 27.44, 27.40, 27.36, 27.32, 27.28, 27.24, 27.20, 27.16, 27.12, 27.08, 27.04, 27.00, 26.96, 26.92, 26.88, 26.84, 26.80, 26.76, 26.72, 26.68, 26.64, 26.60, 26.56, 26.52, 26.48, 26.44, 26.40, 26.36, 26.32, 26.28, 26.24, 26.20, 26.16, 26.12, 26.08, 26.04, 26.00, 25.96, 25.92, 25.88, 25.84, 25.80, 25.76, 25.72, 25.68, 25.64, 25.60, 25.56, 25.52, 25.48, 25.44, 25.40, 25.36, 25.32, 25.28, 25.24, 25.20, 25.16, 25.12, 25.08, 25.04, 25.00, 24.96, 24.92, 24.88, 24.84, 24.80, 24.76, 24.72, 24.68, 24.64, 24.60, 24.56, 24.52, 24.48, 24.44, 24.40, 24.36, 24.32, 24.28, 24.24, 24.20, 24.16, 24.12, 24.08, 24.04, 24.00, 23.96, 23.92, 23.88, 23.84, 23.80, 23.76, 23.72, 23.68, 23.64, 23.60, 23.56, 23.52, 23.48, 23.44, 23.40, 23.36, 23.32, 23.28, 23.24, 23.20, 23.16, 23.12, 23.			