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Status FINAL DESIGN



GENERAL REQUIREMENTS

EXTENT OF WORK

THE WORK INCLUDED UNDER THIS SECTION IS FOR THE SUPPLY OF ALL LABOUR, MATERIALS AND EQUIPMENT FOR THE EXECUTION OF A WATER CORPORATION DN150 GRAVITY SEWER MAINS EXTENSION IN THE ROAD RESERVE OF GREY ST, KALBARRI.

THESE NOTES ARE TO BE READ IN CONJUNCTION WITH PLAN OK20-001-001-01A.

THE WORKS ARE TO BE UNDERTAKEN IN STRICT ACCORDANCE WITH THE REQUIREMENTS IN WATER CORPORATION DESIGN STANDARD "DS 50: DESIGN AND CONSTRUCTION REQUIREMENTS FOR GRAVITY SEWERS DN150 TO DN600".

REQUIREMENT:

- THE SCOPE OF WORK INCLUDES THE SUPPLY, DELIVERY, INSTALLATION, TESTING, COMMISSIONING AND DEFECTS / FAULTS RECTIFICATIONS OF THE SYSTEM AS SHOWN ON THE SERVICES DRAWING. THE CONTRACTOR IS REQUIRED TO PROVIDE ALL THE REQUIRED MATERIALS TO ENSURE THE FULL, CORRECT, COMPLIANT AND SAFE OPERATION OF THE SYSTEM.
- THE WHOLE OF THE SEWER MAIN SUPPLY WORKS SHALL BE CARRIED OUT BY APPROPRIATELY QUALIFIED AND EXPERIENCED TRADESMEN AND SUPERVISED APPRENTICES UNDER THE DIRECT SUPERVISION OF A LICENSED WATER CORPORATION APPROVED PLUMBING CONTRACTOR IN DIRECT ACCORDANCE WITH THE AUSTRALIAN STANDARDS AS/NZS 3500 AND THE REQUIREMENTS OF THE WATER CORPORATION.
- THE CONTRACTOR SHALL PAY ALL ASSOCIATED AUTHORITY FEES, LICENSES AND CHARGES IN RELATION TO THE PROJECT UNLESS ADVISED OTHERWISE.
- THE CONTRACTOR SHALL IDENTIFY AT AN EARLY STAGE OF THE CONTRACT ANY 4. DISCREPANCIES WITH THE DRAWINGS & SPECIFICATION NOTES THAT ARE AFFECTED BY EXISTING SERVICES LOCATIONS & GROUND CONDITIONS.
- THE CONTRACTOR IS REQUIRED TO PROVIDE DETAILED & ACCURATE AS-CONSTRUCTED DOCUMENTATION AT PRACTICAL COMPLETION IN ACCORDANCE WITH SECTION 6 OF WATER CORPORATION DESIGN STANDARD DS 50.
- THE CONTRACTOR IS REQUIRED TO PROVIDE ATTENDANCE TO DEFECTS DURING THE REQUIRED DEFECTS LIABILITY PERIOD.
- THE CONTRACTOR SHALL FAMILIARIZE THEMSELVES WITH SITE/GROUND CONDITIONS,
- GROUND LEVELS AND DEPTH OF COVER PRIOR TO COMMENCEMENT OF SITE WORK. ENSURE ALL PROPRIETARY FIXINGS AND SUPPORTS SELECTED ARE APPROPRIATE FOR THE ENVIRONMENT, INSTALLATION CONDITIONS AND ENSURE COMPLIANCE WITH ALL APPLICABLE STANDARDS.
- 9. THE CONTRACTOR SHALL VERIFY THAT ALL SURFACE LEVELS AND CLEARANCES ARE CORRECT AND OBTAINABLE PRIOR TO COMMENCING WORKS.
- 10. THE CONTRACTOR SHALL NOTE THAT ALL LEVELS ARE SHOWN IN METERS AHD, UNLESS NOTED OTHERWISE.
- 11. ALL DISTANCES ARE SHOWN IN METERS, UNLESS NOTED OTHERWISE. MEASUREMENTS OF QUANTITIES ARE IN ACCORDANCE WITH AS ISO 80000-1:2009.
- 12. THE CONTRACTOR SHALL NOTE THAT ALL PIPE DIAMETERS DETAILED ON THESE DRAWINGS ARE SHOWN AS NOMINAL DIAMETERS.

REGULATIONS

- THE DESIGN IS BASED ON THE DEEMED TO SATISFY REQUIREMENTS AND THAT NO PERFORMANCE BASED SOLUTIONS REQUIRING SUBMISSION TO THE PLUMBER'S LICENSING BOARD
- 14. ALL WORKS TO BE CONSTRUCTED IN ACCORDANCE WITH THE BUILDING ACT 2011, THE NATIONAL CONSTRUCTION CODE 2019 - VOLUME 3, PLUMBING CODE OF AUSTRALIA AND TO THE APPROVAL OF THE WATER CORPORATION.
- ALL PLUMBING MATERIALS SHALL BE CERTIFIED ITEMS IN ACCORDANCE WITH THE 15. NATIONAL CONSTRUCTION CODE 2023 AND TO THE APPROVAL OF THE WATER CORPORATION.
- 16. THE CONTRACTOR SHALL PAY ALL COSTS FOR THE TESTING OF THE INSTALLATION AND COSTS FOR INSPECTION BY LOCAL AUTHORITY, UNLESS ADVISED OTHERWISE. THE CONTRACTOR SHALL UNDERTAKE ALL OF THE TESTING REQUIREMENTS IN KEEPING WITH SECTION 5.3 OF WATER CORPORATION DESIGN STANDARD DS 50, RELEVANT CODES, STANDARDS AND LEGISLATION.
- THROUGHOUT THE PROCESS OF EXECUTION OF THE WORKS THE CONTRACTOR WILL BE RESPONSIBLE FOR THE COORDINATION OF THIS DESIGN AND INSTALLATION WITH OTHER TRADES. UNDER NO CIRCUMSTANCES WILL DEFICIENCY IN THE COORDINATION WITH OTHERS GIVE RISE TO ANY SUB-CONTRACT VARIATIONS OR CLAIMS.

DOCUMENT DISCLAIMER

- THE SERVICE PIPEWORK AND EQUIPMENT SHOWN ON THE DRAWINGS ARE DIAGRAMMATIC ONLY. BEFORE COMMENCING WORK, OBTAIN MEASUREMENTS AND OTHER NECESSARY INFORMATION. COORDINATE THE INSTALLATION WITH ANY ADJACENT STRUCTURAL ELEMENTS AND ALL SERVICES AND TRADES TO ENSURE THE COMPLETE INSTALLATION IS FULLY COORDINATED.
- 19. ALL WORK ASSOCIATED WITH CARRYING OUT THE WORKS WILL BE DEEMED THE RESPONSIBILITY OF THE CONTRACTOR AND TO BE INCLUDED IN THE CONTRACT PRICE AND NOT BE ACCEPTED AS A VARIATION TO THE SCOPE OF WORK. ADEQUATE CLEARANCES ARE TO BE PROVIDED TO ALLOW FOR FUTURE, ONGOING MAINTENANCE AND SERVICE OF ALL PIPEWORK AND EQUIPMENT.
- 20. THE LOCATION AND LEVELS OF THE SERVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. FINAL LOCATIONS AND LEVELS SHALL BE CONFIRMED ON SITE PRIOR TO INSTALLATION.

WORKMANSHIP, MATERIALS, EQUIPMENT AND COMPONENTS

- ALL WORKMANSHIP AND MATERIALS SHALL BE OF A HIGH STANDARD USING NEW MATERIALS. ANY MATERIALS OR WORKMANSHIP, WHICH ARE CONSIDERED INFERIOR OR NON-CONFORMING, SHALL BE REPLACED AT THE CONTRACTORS COST. DO NOT PROVIDE WITHOUT APPROVAL, PRODUCTS THAT ARE OBSOLETE, DISCONTINUED OR ABOUT TO BE DISCONTINUED. ALL MATERIALS AND WORKMANSHIP PROVIDED BY THE CONTRACTOR UNDER THIS SCOPE WILL BE OF GOOD AND INDUSTRY STANDARD QUALITY.
- 22. THE MATERIALS AND WORKMANSHIP SHALL BE TO THE APPROVAL OF THE WATER CORPORATION AND ALL DEFECTIVE MATERIALS AND WORK WHEN DIRECTED IN WRITING SHALL BE RECTIFIED AND/OR REMOVED FROM THE WORKS AT THE CONTRACTORS EXPENSE AND WITHOUT ANY DELAY TO THE CONSTRUCTION PROGRAM.
- 23. PROVIDE EQUIPMENT AND ASSOCIATED ACCESSORIES WHICH ARE THE PRODUCTS OF ESTABLISHED MANUFACTURERS REGULARLY ENGAGED IN THE MANUFACTURE OF SUCH EQUIPMENT, WHO ISSUE COMPREHENSIVE RATING DATA AND CERTIFIED TEST DATA ON THEIR PRODUCTS.
- 24. STAGING SHALL BE AS DIRECTED BY THE PRINCIPAL. ALLOW TO ACCOMMODATE VARIOUS ASPECTS OF STAGING AS REQUIRED.
- 25. PROVIDE ALL TEMPORARY SERVICES AS REQUIRED THROUGHOUT THE WORKS.

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Plotted by: Sam Mosaval

Plot Date: 2 May 2024 - 11:57 AM

TRENCHING

- ALL EXCAVATIONS SHALL BE PERFORMED IN STRICT OBSERVANCE OF SOUND ENGINEERING PRINCIPLES WITH CONSIDERATION FOR THE PRESERVATION OF ADJACENT STRUCTURES AND SERVICES AND WHERE NECESSARY ADEQUATE SHEET PILING SHALL BE PROVIDED TO MAINTAIN SUCH STRUCTURES OR SERVICE.
- 2. WHERE REQUIRED BY REGULATION, ALL EXCAVATIONS SHALL BE SURROUNDED BY ADEQUATE BARRICADES FOR PROTECTION OF THE PUBLIC OR SITE WORKERS AND CLEARLY ILLUMINATED.
- 3. EXCAVATIONS SHALL BE PERFORMED, SERVICED AND BACKFILLED IN THE SHORTEST POSSIBLE PERIOD AND NONE SHALL BE LEFT OPEN UNNECESSARILY.
- 4. THE PREPARED BASE OF ALL EXCAVATIONS SHALL BE OF CLEAN SHARP SAND, FREE OF STONES AND NOT LESS THAN 100mm IN DEPTH, TRUE TO LINE AND GRADE AND OF DENSITY EQUAL TO THAT REQUIRED BY THE RELEVANT REGULATION WHERE APPROPRIATE.

EARTHWORKS: TO AS3798 6. WATER CORPORATION DESIGN STANDARD DS 50

- 7. GIVE NOTICE SO THAT INSPECTION MAY BE MADE AT THE FOLLOWING STAGES:
- SERVICE TRENCHES EXCAVATED BEFORE LAYING THE SERVICE • SERVICES LAID IN TRENCH AND READY FOR BACKFILLING

- SUBMIT A PLAN OF TRENCH WORKS NOTING THE LOCATION AND TYPE OF SERVICE.
- ADVISE PROPOSED DURATION OF OPEN EXCAVATION. 10. SUBMIT DETAILS OF PROPOSED EQUIPMENT AND METHOD OF EXCAVATION.
- 11. IF SHUTTERING AND/OR BRACING OF THE SIDES OF A TRENCH IS REQUIRED FOR SAFETY AND STABILITY, PROVIDE PROPOSALS.
- 12. IF RELEVANT, IDENTIFY OH&S HAZARDS THAT MAY BE ENCOUNTERED WITH DEEP
- TRENCHES INCLUDING TOXIC GASES AND LIQUIDS.
- 13. SUBMIT THE LOCATIONS AND EVIDENCE OF COMPLIANCE WITH THE RELEVANT AUTHORITIES FOR THE DISPOSAL OF MATERIAL REQUIRED TO BE REMOVED FROM THE SITE.

EXECUTION **EXISTING SERVICES:**

- 14. BEFORE COMMENCING SERVICE TRENCHING, LOCATE AND MARK EXISTING UNDERGROUND SERVICES AFFECTED BY THE SERVICE TRENCHING OPERATIONS.
- 15. DO NOT EXCAVATE BY MACHINE WITHIN 1m OF EXISTING UNDERGROUND SERVICES

EXISTING SURFACES - CONCRETE AND ASPHALT PAVEMENTS

- 16. SAWCUT TRENCH SET OUT LINES FOR THE FULL DEPTHS OF THE BOUND PAVEMENT LAYERS EXCEPT WHERE THE SET OUT LINE IS LOCATED ALONG EXPANSION JOINTS.
- 17. FOR REMOVAL OF CONCRETE AND ASPHALT, BREAK OUT CONCRETE OR ASPHALT PAVEMENT MATERIAL BETWEEN THE TRENCH SET OUT LINES, REMOVE AND DISPOSE OFF SITE.

EXCAVATIN(

- 18. EXCAVATE FOR UNDERGROUND SERVICES IN CONFORMANCE WITH THE FOLLOWING: TO REQUIRED LINES AND LEVELS, WITH UNIFORM GRADES
- TO A WIDTH TOLERANCE OF ± 50mm UNLESS CONSTRAINED BY ADJACENT STRUCTURES. FRENCH WIDTH
- 19. KEEP TRENCH WIDTHS TO THE MINIMUM CONSISTENT WITH THE LAYING AND BEDDING OF
- THE RELEVANT SERVICE.
- 20. AS REQUIRED BY THE RELEVANT SERVICE AND ITS BEDDING METHOD.

21. GENERAL: CLEAR TRENCHES OF SHARP PROJECTIONS. CUT BACK ROOTS ENCOUNTERED IN TRENCHES TO AT LEAST 600 MM CLEAR OF SERVICES. REMOVE OTHER OBSTRUCTIONS INCLUDING STUMPS AND BOULDERS WHICH MAY INTERFERE WITH SERVICES OR BEDDING OBSTRUCTIONS.

DEWATERIN

- GENERAL: KEEP TRENCHES FREE OF WATER. PLACE BEDDING MATERIAL, SERVICES AND BACKFILLING ON FIRM GROUND FREE OF SURFACE WATER.
- 23. PUMPING: PROVIDE PUMP-OUT FROM ADJACENT SUMPS OR INSTALL WELL POINTS. 24. ADJACENT SUBSIDENCE: PROVIDE RECHARGE POINTS TO ISOLATE THE DEWATERING ZONE.

EXCESS EXCAVATION

25. GENERAL: IF TRENCH EXCAVATION EXCEEDS THE CORRECT DEPTH, REINSTATE TO THE CORRECT DEPTH AND BEARING VALUE USING COMPACTED BEDDING MATERIAL OR SAND STABILISED WITH 1 PART OF CEMENT TO 20 PARTS OF SAND BY VOLUME.

FRENCH BACKFILL

- TIMING: BACKFILL SERVICE TRENCHES AS SOON AS POSSIBLE AFTER LAYING AND BEDDING THE SERVICE, IF POSSIBLE ON THE SAME WORKING DAY.
- 27. WHEN GROUND WATER LEVELS ARE EXPECTED TO REACH ABOVE PIPE, THE SECONDARY INITIAL BACKFILL SHOULD BE A CONTINUATION OF THE PRIMARY INITIAL BACKFILL IN ORDER TO PROVIDE OPTIMUM PIPE SUPPORT.
- 28. ON COMPLETION OF ALL TRENCHING AND EXCAVATION WORKS, CONTRACTOR SHALL MAKE GOOD ON ALL SOFT AND HARD FINISHES TO THE SATISFACTION OF THE PRINCIPAL.
- 29. RESTORATION TO CONFORM TO SECTION 5.2.8 OF WATER CORPORATION DESIGN

STANDARD DS 50.

BACKFILLING EXCAVATION

GENERAL

- 1. BACKFILL EXCAVATIONS AS SOON AS POSSIBLE AFTER THE SERVICE HAS BEEN LAID BEDDED OVERLAY PLACED, AND INSPECTED WHERE REQUIRED BY THE LOCAL AUTHORITY AND SUPERINTENDENT, IF POSSIBLE ON THE SAME WORKING DAY. PLACE THE EXCAVATION FILL IN LAYERS ≤ 150 MM THICK AND COMPACT TO THE DENSITY, WHICH APPLIES TO THE LOCATION OF THE EXCAVATIONS TO MINIMISE SETTLEMENT, AND SO THAT PIPES ARE BUTTRESSED BY THE TRENCH WALLS.
- COMPACT EXCAVATION FILL TO A MINIMUM OF 95% OF THE STANDARD MAXIMUM DRY DENSITY RATIO SPECIFIED IN AS 1289.5.4.1 OR AS 1289.E6.1. COMPACT EXCAVATION FILL IN SUCH A MANNER THAT THE PIPES ARE NEITHER DISLODGED NOR DAMAGED.
- 3. REFILLING OF TRENCHES / EXCAVATIONS FROM THE TOP OF THE PIPE OVERLAY TO GROUND LEVEL IN NON-TRAFFICABLE AREAS OR TO SUB-GRADE LEVEL IN TRAFFICALBE AREAS ARE TO CONFORM TO SECTION 5.2 OF WATER CORPORATION DESIGN STANDARD DS 50.

MAINTENANCE

DURING THE MAINTENANCE PERIOD, RECTIFY ANY SURFACE DEFECTS AS A RESULT OF SETTLEMENT OF THE EXCAVATIONS. SUCH DEFECTS SHALL INCLUDE, BUT NOT RESTRICTED TOO:

- SETTLEMENT OF EXCAVATIONS IN GRASSED AREAS,
- CRACKING OF PAVEMENTS AND/OR BITUMENT, AND
- EXCAVATION COLLAPSE.

SAFETY IN DESIGN

- THE SAFETY RISK MITIGATION ITEMS BELOW ARE BASED ON GHD'S DESIGN OFFICE EXPERIENCE AND DO NOT NECESSARILY ACCOUNT FOR ALL CONSTRUCTION, OPERATION MAINTENANCE AND DEMOLITION SAFETY RISKS. BASED ON INFORMATION AVAILABLE WHEN THIS DRAWING WAS MADE, IN ITS CAPACITY AS DESIGNER ONLY, GHD HAS TRIED TO IDENTIFY SAFETY RISKS PERTAINING TO CONSTRUCTION, OPERATION, MAINTENANCE AND DEMOLITION PHASES OF THE ASSET. INCLUSION (OR NOT) OF ANY ITEM DOES NOT REDUCE OR LIMIT OBLIGATIONS OF CONSTRUCTOR, USER, MAINTAINER AND DEMOLISHER TO UNDERTAKE APPROPRIATE RISK MANAGEMENT ACTIVITIES TO REDUCE RISK AND IS NOT AN ADMISSION BY GHD THAT INCLUSION OF ANY ITEM IS DESIGNER'S RESPONSIBILITY.
- CARRY OUT WORK IN A SAFE MANNER IN ACCORDANCE WITH APPLICABLE LEGISLATION. STATUTORY REGULATIONS, BY-LAWS OR RULES. CONTRACTOR IS RESPONSIBLE FOR OCCUPATIONAL HEALTH AND SAFETY OF SITE PERSONNEL AND GENERAL PUBLIC IN ACCORDANCE WITH WORK HEALTH AND SAFETY ACT 2010, LEGISLATIVE REQUIREMENTS, ASSOCIATED REGULATIONS AND CODES OF PRACTICE, INDUSTRIAL AGREEMENTS AND ACCEPTED INDUSTRY PRACTICE, INDUSTRIAL AGREEMENTS AND ACCEPTED INDUSTRY PRACTICE
- PROVIDE SAFETY BARRIERS AT EDGES OF OPENINGS AND ELEVATED AREAS. REVIEW ADEQUACY OF WORKING SPACE AVAILABLE FOR CONSTRUCTION ACTIVITIES. ENSURE SEPARATION OF PLANT AND PERSONNEL ON SITE, INCLUDING MOVEMENTS OF
- 5. LOCATE LIFTING SLEW AND LAY DOWN AREAS AWAY FROM REGULAR CONSTRUCTION TRAFFIC
- PROVIDE PROTECTION TO PERSONNEL FROM PLANT AND EQUIPMENT. ENSURE ISOLATION SAFE SYSTEMS OF WORK OR PROTECTIVE MEASURES ARE INSTALLED BEFORE WORKING NEAR LIVE ELECTRICAL INFRASTRUCTURE. PROVIDE PROTECTION OF ELECTRICAL OVERHEAD WIRING SYSTEMS DURING CONSTRUCTION.
- WRITTEN RISK ASSESSMENTS ARE ADVISED FOR ACCESS TO OPEN EXCAVATIONS. PROVIDE ACCESS AND EGRESS TO EXCAVATIONS APPROPRIATE IN CASE OF INUNDATION, COLLAPSE OR ENGULFMENT.
- 9. LOCATE STOCKPILES AND HEAVY EQUIPMENT INCLUDING CRANES AWAY FROM BURIED SERVICES. 10. SEEK ADVICE FROM SUITABLY QUALIFIED GEOTECHNICAL OR STRUCTURAL ENGINEER
- PRIOR TO OPERATION OF HEAVY SURFACE PLANT AND EQUIPMENT OR STOCKPILING MATERIAL NEAR OPEN EXCAVATIONS OR EXISTING RETAINING STRUCTURES. 11. DO NOT STOCKPILE MATERIAL BEHIND OR EXCAVATE IN FRONT OF EXISTING RETAINING WALLS UNTIL WALL STABILITY HAS BEEN REVIEWED BY SUITABLY QUALIFIED STRUCTURAL
- ENGINEER. SEEK ADVICE FROM SUITABLY QUALIFIED STRUCTURAL ENGINEER BEFORE LAYING BELOW EXISTING FOOTING LEVELS. 12. MINIMIZE SITE BASED TREATMENTS (EG. WELDING, CUTTING, SPRAY PAINTING, GRIT
- BLASTING ETC.) PROVIDE ADEQUATE PROTECTION SCREENING AND VENTILATION TO MINIMIZE HAZARDS TO PERSONNEL IF SITE BASED TREATMENT IS UNAVOIDABLE.
- 13. TRY TO AVOID WORKING IN CONFINED SPACES. IF CONFINED SPACES WORK CAN'T BE AVOIDED, PROVIDE SAFE WORK METHOD STATEMENT ADDRESSING MITIGATION OF RISKS PROVIDE ADEQUATE SIGNAGE TO TEMPORARY AND PERMANENT CONFINED SPACES TO AS2865

CERTIFICATION OF WORKS

- 1. DURING THE PROGRESS OF THE WORKS, THE CONTRACTOR SHALL INSTALL ALL WORKS TO COMPLY WITH THE CONTRACT OF WORKS, AND PROVIDE AND ISSUE CERTIFICATES TO STATE THAT THE HYDRAULIC SERVICES HAVE BEEN INSTALLED IN ACCORDANCE WITH THE CONTRACT DOCUMENTS, AUTHORITIES REQUIREMENTS AND AUSTRALIAN STANDARDS. THIS CERTIFICATE MUST BE SIGNED AND ISSUED PRIOR TO ANY APPLICATION FOR A MONTHLY PROGRESS PAYMENT.
- WHEREVER APPLICABLE, THE RELEVANT AUTHORITY SHALL ISSUE A CERTIFICATE OF COMPLIANCE. WHERE THIS IS NOT A STANDARD PRACTICE, THE CONTRACTOR SHALL PROVIDE A CERTIFICATE OR LETTER OF CERTIFICATION WHICH WILL GUARANTEE THAT THE FINAL INSTALLED WORKS COMPLY WITH THE RELEVANT AUTHORITIES
- REGULATIONS, REQUIREMENTS, AND CONDITIONS. AT THE COMPLETION OF THE WORKS AND PRIOR TO THE SUBMISSION FOR FINAL PAYMENT, THE CONTRACTOR SHALL MAKE ALL NECESSARY APPLICATIONS, PAY ALL
- FEES, OBTAIN AND ISSUE CERTIFICATES INDICATING THAT THE WORKS: COMPLY WITH THE CURRENT REGULATIONS
- COMPLY WITH THE REQUIREMENTS OF THE WATER CORPORATION COMPLY WITH THE REQUIREMENTS OF THE CONTRACT DOCUMENTS
- HAVE BEEN TESTED AND COMMISSIONED FOR THE FULL OPERATING CONDITIONS.







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GHD Project No. 12596020

Status TENDER

SHIRE OF NORTHAMPTON

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Drawing SPECIFICATION NOTES