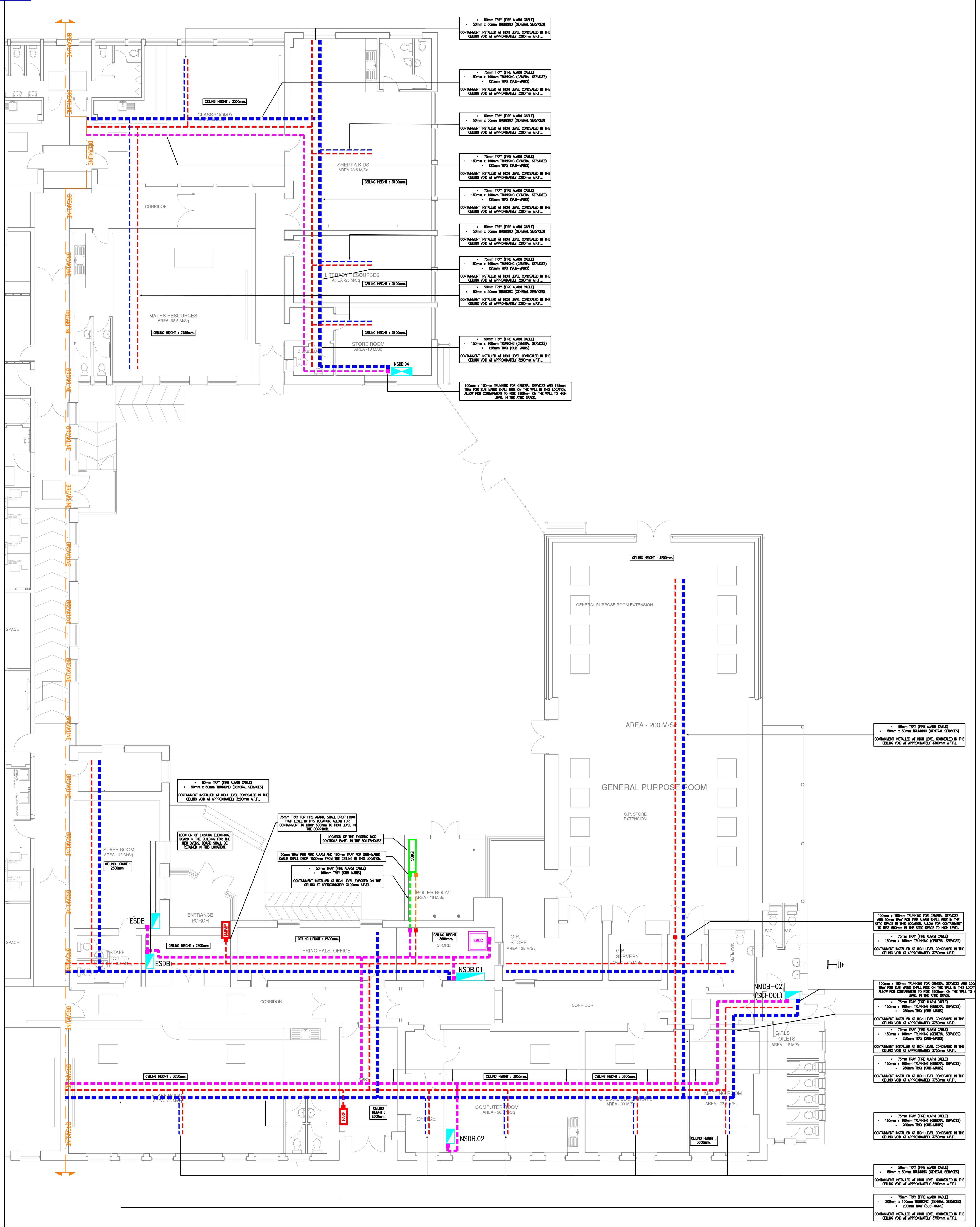
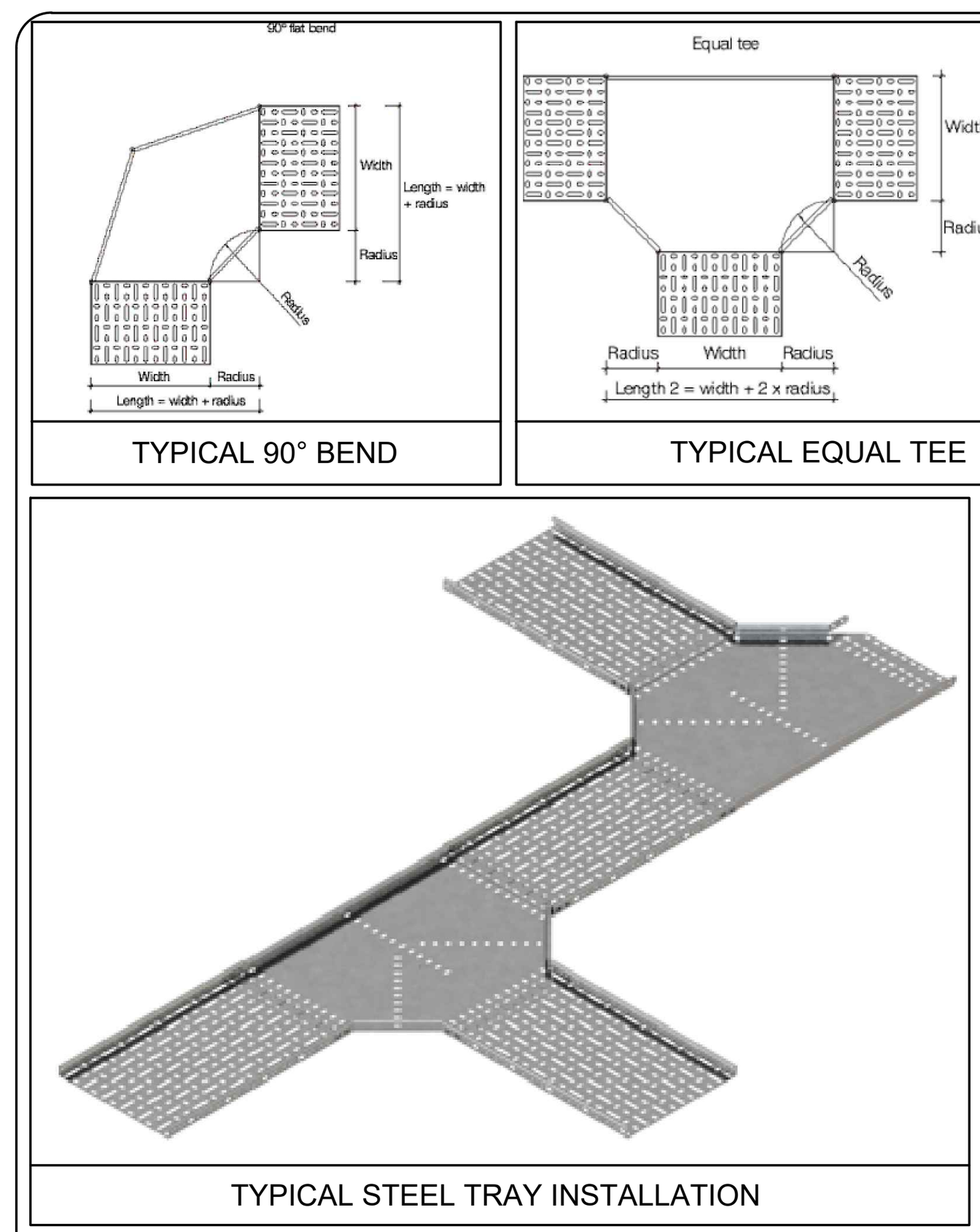
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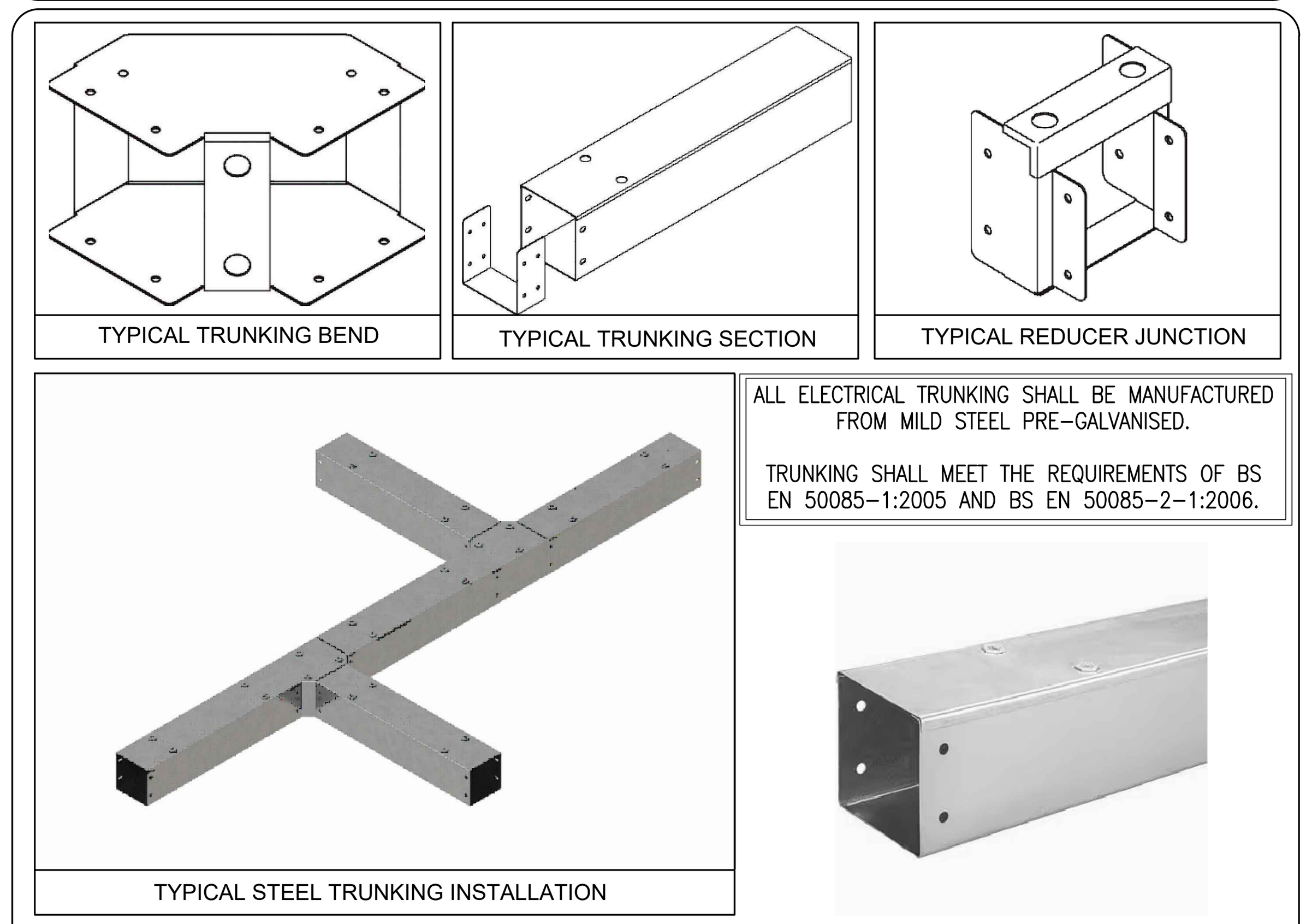
CABLE CONTAINMENT INSTALLATION SERVICES LAYOUT FOR 'AREA B' ON THE GROUND FLOOR OF THE BUILDING (SCALE 1:125)



ALL ELECTRICAL TRAY SHALL BE MANUFACTURED FROM MILD STEEL PRE-GALVANISED.

TRAY SHALL MEET THE REQUIREMENTS OF BS EN 61537:2007.

TYPICAL GALVINISED STEEL TRAY CONTAINMENT DETAILS



ALL ELECTRICAL TRUNKING SHALL BE MANUFACTURED FROM MILD STEEL PRE-GALVANISED.

TRUNKING SHALL MEET THE REQUIREMENTS OF BS EN 50085-1:2005 AND BS EN 50085-2-1:2006.

TYPICAL GALVINISED STEEL TRUNKING CONTAINMENT DETAILS

CABLE CONTAINMENT SERVICES SYMBOLS

Symbol	Description
NMDB-01 (ESB)	NEW MAIN DISTRIBUTION ELECTRICAL BOARD FOR THE BUILDING. BOARD SHALL BE LOCATED IN THE LOCATION AS INDICATED ON DRAWING.
NMDB-02 (SCHOOL)	NEW MAIN DISTRIBUTION ELECTRICAL BOARD FOR THE SCHOOL BUILDING. BOARD SHALL BE LOCATED IN THE LOCATION AS INDICATED ON DRAWING.
NSDB-*	NEW SUB-DISTRIBUTION ELECTRICAL BOARD FOR THE BUILDING. (* DENOTES NUMBER OF BOARD)
EMCC	EXISTING MCC CONTROLS PANEL LOCATED IN THE BOILERHOUSE (TO BE RETAINED)
NMFAP	NEW MAIN FIRE ALARM PANEL FOR THE BUILDING
FARP	NEW MAIN FIRE ALARM REPEATER PANEL FOR THE BUILDING
orange dashed line	NEW GALVANISED STEEL TRAY TO BE INSTALLED AT HIGH LEVEL EXPOSED FOR FIRE ALARM CABLE (SEE DRAWING FOR PROPOSED SIZE)
green dashed line	NEW GALVANISED STEEL TRAY TO BE INSTALLED AT HIGH LEVEL EXPOSED FOR SUB-MAINS CABLE (SEE DRAWING FOR PROPOSED SIZE)
cyan dashed line	NEW GALVANISED STEEL TRUNKING TO BE INSTALLED AT HIGH LEVEL EXPOSED FOR GENERAL ELECTRICAL SERVICES (SEE DRAWING FOR PROPOSED SIZE)
red dashed line	NEW GALVANISED STEEL TRAY TO BE INSTALLED AT HIGH LEVEL AND CONCEALED IN THE CEILING VOID FOR FIRE ALARM CABLE (SEE DRAWING FOR PROPOSED SIZE)
magenta dashed line	NEW GALVANISED STEEL TRAY TO BE INSTALLED AT HIGH LEVEL AND CONCEALED IN THE CEILING VOID FOR SUB-MAINS CABLE (SEE DRAWING FOR PROPOSED SIZE)
blue dashed line	NEW GALVANISED STEEL TRUNKING TO BE INSTALLED AT HIGH LEVEL AND CONCEALED IN THE CEILING VOID FOR GENERAL ELECTRICAL SERVICES (SEE DRAWING FOR PROPOSED SIZE)

GENERAL NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE PARTICULAR SPECIFICATIONS.

2. THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CO-ORDINATION OF ALL SERVICES AND WORKS REQUIRED FOR THE PROJECT. THE CONTRACTOR SHALL CO-ORDINATE FULLY WITH ALL OTHER TRADES BEFORE COMMENCING WORK.

3. EXTRA COSTS INCURRED DUE TO THE CO-ORDINATION EXERCISE NOT BEING COMPLETED WILL NOT BE ACCEPTED BY THE ENGINEER.

4. DO NOT SCALE THIS DRAWING. ALL DIMENSIONS TO BE TAKEN ON SITE. ALL DIMENSIONS IN mm, UNLESS STATED OTHERWISE

5. EXACT LOCATIONS OF ALL SERVICES TO BE AGREED ON SITE. FINAL LOCATIONS OF ALL SERVICES TO BE CO-ORDINATED ON SITE WITH EXISTING LOOSE AND FIXED FURNITURE LAYOUTS IN THE ROOM.

6. <u>THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORKS AND BUILDERS WORKS AS IDENTIFIED ON THE DRAWINGS AND IN THE SPECIFICATIONS.</u>

7. THE MAJORITY OF THE EXISTING ELECTRICAL INSTALLATION THROUGHOUT THE BUILDING SHALL BE DECOMMISSIONED AND REMOVED AND REPLACED WITH NEW ELECTRICAL INSTALLATIONS. THE CONTRACTOR SHALL ALLOW FOR DECOMMISSIONING THE FOLLOWING ITEMS THROUGHOUT THE BUILDING AS INDICATED ON THE DRAWINGS:

- THE EXISTING ELECTRICAL BOARDS IN THE BUILDING SHALL BE DECOMMISSIONED AND REMOVED (APART FROM NEW COOKER BOARD).
- THE EXISTING POWER AND GENERAL SERVICES INSTALLATION THROUGHOUT THE BUILDING (APART FROM THE NEW COOKER) SHALL BE DECOMMISSIONED AND REMOVED. INCLUDING ALL SOCKETS, SPURS, ISOLATORS, CABLING, ETC.
- THE EXISTING GENERAL LIGHTING SERVICES INSTALLATION THROUGHOUT THE BUILDING (THE ASD CENTRAL BLOCK LIGHT FITTINGS AND SWITCHES SHALL BE RETAINED AND REWIRED BACK TO THE NEW SUB DISTRIBUTION NSDB.06) AND ALL THE EXTERNAL LIGHTING SHALL BE DECOMMISSIONED AND REMOVED INCLUDING ALL LIGHT FITTINGS, CABLING, CONTAINMENT, ETC.
- THE EXISTING EMERGENCY LIGHTING SERVICES INSTALLATION THROUGHOUT THE BUILDING AND THE NEW EXTENSION SHALL BE DECOMMISSIONED AND REMOVED INCLUDING ALL EMERGENCY LIGHT FITTINGS, CABLING, CONTAINMENT, ETC.
- THE EXISTING FIRE ALARM SERVICES INSTALLATION THROUGHOUT THE BUILDING AND THE EXTENSION BUILDING SHALL BE DECOMMISSIONED AND REMOVED INCLUDING ALL SMOKE DETECTORS, HEAT DETECTORS, PANELS, ETC.

CABLE CONTAINMENT NOTES:

8. NEW CABLE CONTAINMENT SHALL BE INSTALLED THROUGHOUT THE BUILDING AS INDICATED ON THE DRAWINGS.

10. WHERE POSSIBLE, THE CONTRACTOR SHALL ALLOW FOR RE-USING THE EXISTING STEEL METAL CONTAINMENT AND CONDUITS (STEEL CONTAINMENT ONLY) THROUGHOUT THE BUILDING BUT ONLY IF THEY ARE FIT FOR PURPOSE AND IN GOOD CONDITION.

11. THIS DRAWING INDICATES MAIN RUNS FOR NEW CABLE CONTAINMENT TRAYS & TRUNKING. THE CONTRACTOR SHALL INSTALL ALL FINAL BRANCH RUNS, RISERS, OFFSETS, ETC. AS REQUIRED TO PROVIDE A COMPLETE CONTAINMENT SYSTEM IN EACH CASE. THIS INFORMATION IS INDICATIVE ONLY. THE CONTRACTOR SHALL PROVIDE ALL BENDS, TEE'S, AND CROSS-OVERS THAT REQUIRED TO MEET CURRENT ETCI STANDARDS, THE ROUTES INDICATED ARE MAIN ROUTES ONLY AND SECONDARY ROUTES INTO ROOMS ARE NOT INDICATED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY AND INSTALLATION OF ALL TRUNKING AND TRAY TO ENSURE THE PROTECTION OF ALL THE CABLING. ALL TRUNKING AND TRAYS SHALL BE MANUFACTURED FROM GALVINISED STEEL AS SUPPLIED BY UNITRUNK (OR EQUIVALENT).

12. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE SUPPLY OF ALL METAL CONDUIT TO ALL NEW ELECTRICAL DEVICES AND COMPONENTS THROUGHOUT THE BUILDING.

13. ALL EQUIPMENT POSITIONS ARE INDICATIVE ONLY FOR TENDERING PURPOSES. FINAL LOCATIONS TO BE DETERMINED ON SITE.

14. THE CONTRACTOR SHALL NOTE THE PHYSICAL SIZE OF ALL DISTRIBUTION EQUIPMENT. EQUIPMENT SHOWN IS INDICITAVE ONLY. PHYSICAL DIMENSIONS MAY VARY IN ACCORDANCE WITH THE NOMINATED EQUIPMENT VENDOR. THE SUB CONTRACTOR SHALL CONFIRM ALL EQUIPMENT CABLE TRAY/RACK DIMENSIONS BEFORE INSTALLATION.

15. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL TERMINATIONS AND CABLE ROUTEWAY DETAILS.

16. THE CONTRACTOR TO INCLUDE FOR ALL NECESSARY FIXINGS & SUPPORTS REQUIRED TO COMPLETE INSTALLATION.

17. ALL EXPOSED WALL MOUNTED TRAYS MUST BE CLIPPED/LIDDED.

18. CONTRACTOR TO ALLOW FOR A SEPARATE DEDICATED DISTRIBUTION SYSTEM FOR THE FIRE ALARM, CABLES TO BE SUPPORTED THROUGHOUT ON TRAY OR IN CONDUIT USING FIRE RATED BRACKETS AND CLIPS. FIRE ALARM DISTRIBUTION TO COMPLY WITH I.S. 3218:2024.

19. CABLE TRAY AND TRUNKING SHALL BE EXPOSED ALONG THE EXISTING PURLINS IN THE BUILDING OR EXPOSED ALONG THE WALL OF THE BUILDING. REFER TO THE DRAWING FOR THE MOUNTING OF THE CABLE CONTAINMENT THROUGHOUT THE BUILDING.

20. THE LAYOUT IS INDICATIVE ONLY. FINAL SIZES AND ROUTES OF THE CABLE TRAY ARE TO BE CONFIRMED WITH THE CONTRACTOR ON SITE.

21. ALL CONDUITS BELOW THE CEILING THROUGHOUT THE BUILDING SHALL BE SURFACE MOUNTED. ALL CONDUITS TO ELECTRICAL ITEMS SHALL BE SURFACE MOUNTED.

22. THE CONTRACTOR SHALL ALLOW OF THE EFFECTIVE BONDING AND EARTHING OF THE ELECTRICAL INSTALLATION AND THE ELECTRICAL CABLE CONTAINMENT SYSTEM. ALL EARTHING AND BONDING SHALL COMPLY WITH CURRENT ETCI REGULATIONS.

23. SOME OF THE CABLE CONTAINMENT SERVICES SHALL BE EXPOSED AT HIGH LEVEL ON THE CEILING, EXPOSED AT HIGH LEVEL ON THE WALL OF THE BUILDING AND IN THE ATTIC SPACE OF THE BUILDING. REFER TO THE DRAWING FOR LOCATION ON THE DRAWING WHERE EACH OF THE CABLE CONTAINMENT SERVICES ARE INSTALLED THROUGHOUT THE BUILDING.

24. THE CONTRACTOR SHALL ALLOW FOR ALL DADO TRUNKING DROPS AND LAYOUTS AS INDICATED ON THE DRAWINGS. THE CONTRACTOR SHALL ALLOW FOR ALL ELECTRICAL ITEMS AS INDICATED ON THE DRAWINGS ON THE DADO TRUNKING.

25. IN ORDER TO INSTALL THE NEW CABLE CONTAINMENT ABOVE THE EXISTING SUSPENDED CEILING, THE CONTRACTOR WILL NEED TO ALLOW FOR TAKING DOWN THE EXISTING SUSPENDED CEILING IN AREAS OF THE BUILDING AND RE-INSTALLING ONCE ALL CONTAINMENT HAS BEEN INSTALLED. REFER TO DRAWING 69(E001) FOR FURTHER INFORMATION.

26. IN ORDER TO INSTALL THE NEW ELECTRICAL SERVICES AND ELECTRICAL CONTAINMENT AT HIGH LEVEL IN THE GP HALL (APPROXIMATELY 5000mm ABOVE FINISHED FLOOR LEVEL), THE CONTRACTOR WILL NEED TO ALLOW FOR SCAFFOLDING, SCISSORS LIFT, ETC. FOR ACCESS TO THE HIGH LEVEL.

REV	DATE	PREPARED BY/PROJECT ENGINEER	QUALITY CHECK BY:
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Architect

Drawing No: 66(E002)

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26-066	R.W.	1:125 on A1	T1