

TENANT HANDBOOK RETAIL FIT-OUT

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INTRODUCTION

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1.1 PROFESSIONAL TEAM

Client	Friar
Project Manager	Cum
Architect	Allies
Civil and Structural Engineer	Curti
Building Services Engineer	Ernes

Friargate Cumming Allies and Morrison Curtins Ernest Griffiths

1.2 TENANT CONSTRAINTS

This document sets out criteria which tenants are to adhere to when designing and installing their fit-out works for the retail unit (Use Class A3). All systems supplied and installed by the tenant are to comply with all relevant regulations and applicable standards. All plant, equipment and services installed by the tenant are to be of an acceptable standard and quality and are to be installed within the demise. Careful consideration should be given to the Landlords services within the demise. Tenant fit-out designs are subject to the Landlords approval. No works are to proceed unless approval has been provided; any alterations by the Tenant to Landlord Works are not to be progressed until approval has been provided and a Licence to Alter issued. In particular the tenant should be aware of the following:

- Fixings through the perimeter wall build up are to be avoided in order to safeguard the fire resistivity, airtightness and acoustic performance of the building envelope.
- Guidance on fixings into the primary structure are set out in section 2.

- All fire encasement including vermiculite, gypsum board fire protection to beams and intumescent paint to the columns is to be retained without alteration.
- If partition walls are required to be fixed to metal columns or beams then the beam and the column must also be fire encased as the intumescent paint will be prevented from expanding. Similarly a clear zone of at least 50mm should be maintained around all painted beams and 25mm to painted columns to allow the intumescent paint to expand in the event of a fire.
- All fire stopping around services, to the slab edge and to core walls is to remain undisturbed.
- An Energy Performance Certificate is required from the tenant prior to occupation.
- The tenant is responsible for obtaining Building Control Approval for their fit-out, certification to be given to the Landlord before occupation.
- This document should be read in conjunction with the fire strategy for the building authored by Design Fire Consultants.

- A rainwater pipe serving the office balconies is located on the intersection of gridline F & gridline 6.
- The floor to the retail unit forms part of the building thermal envelope due to the unheated car park space beneath. It is the tenants responsibility to install adequate insulation to meet the thermal requirements and complete the thermal envelope.

- The wall to the bin store has soft spots formed allowing for sections of blockwork to be removed should ductwork need to pass through.
- Due to the proximity of a future masterplan plot to the retail unit an area of the façade requires fire protection. This has already been installed as part of the base build and should be maintained once the retail unit has been fitted out. The area of façade that is fire protected includes the ventilation louvre band which the tenant will likely need to connect services to. The services that connect to the louvre will need to have suitable fire protection to maintain the fire performance to this area.
- 3no. waste drainage connections have been provided against the demise wall. For limits on the capacity the waste can accommodate refer to O&M information.
- Sprinkler protection is provided to the retail unit and fed from the sprinkler tank in the office basement.
- Guidance for the design and fixing of signage is shown in section 3 of this handbook.
- In order to comply with the fire strategy all retail doors must be left unlocked during the hours of operation and open outwards.

- The tenant will be responsible for installing their own security system however the external elevation of the retail unit will be covered by the general building CCTV
- A panel has been created within the canopy enclosure to allow for an intercom to be installed.



AREA OF FIRE RATED FACADE - PLAN & SECTION

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2 SUBSTRUCTURE & SUPERSTRUCTURE

2.1 DESCRIPTION OF BASE BUILD

SUBSTRUCTURE

A piled solution has been adopted with 750mm diameter CFA piles provided at 900mm centres to form the perimeter basement wall. 750mm diameter piles are also provided to pile caps at column and core locations, with individual piles provided to reduce the span of the 350mm thick RC basement slab.

The substructure has been developed on the basis of a piled solution. Piles are primarily required at column and core locations in the form of pile caps to spread the superstructure loads over the required number of piles. Lone piles with thickenings are also added to reduce the span of the slab. Due to the water table, the foundations also need to be designed for uplift from hydrostatic pressure.

PILES

All piles are assumed to be 750mm diameter, the pile loads drawing specifies the loads the piles must be designed to take (see FCDL-CUR-C10-FN-DR-S-16001). All piles are assumed to settle 10mm under serviceability loads. For the contiguous piled wall, 750mm diameter piles are provided at 900mm centres. The perimeter wall may need propping during construction until the basement slab has been constructed and the pile drawings show the assumed extent of propping required, to be confirmed by the Piling Contractor.

In the permanent condition the contiguous pile wall is propped by the basement slab at basement level and the ground floor slab at ground level. Where a ramp is present, the ground floor propping level reduces and the pile design should allow for this because the piles will cantilever past the ramp.

Further requirements for the design are outlined on the pile loads drawing and the piling specification (FCDLCUR-C10-ZZ-SP-S-00005).



FIGURE 2.1 — PLAN OF BASEMENT

SUPERSTRUCTURE

A long span steel framed solution has been developed, with a central reinforced concrete core providing stability against lateral loads. The long span steel frame allows open office spaces to be provided without the need for intermediate columns.

FLOOR PLATES

The ground floor and below is constructed with in-situ concrete. A 350mm thick RC slab is used to form the ground floor slab and the basement slab is formed as part of the raft foundation.

A typical floor plate generally consists of cellular beams with a composite deck above forming long span composite beams. The floor plates are supported by steel columns at regular spacings to the façade of the building, with some columns present internally at lower levels due to the building stepping in. Internally, the steel beams are supported by the internal RC core, with wing walls provided to pick up riser trimming steelwork.

At ground floor and below, an in-situ RC podium is proposed with contiguous piles forming the perimeter basement wall line. The perimeter columns are supported directly off the contiguous pile wall, with a capping beam provided to distribute the column load over multiple piles.



FIGURE 2.2 — TYPICAL SECTIONS THROUGH BUILDING

The ground floor slab is a 350mm thick RC flat slab, which has been achieved by the introduction of additional RC columns on a 6m x 6m grid. Where steel columns are present internally, a larger column is provided below to allow sufficient connectivity between the steel and concrete elements and also to transfer the axial forces from the floors above to the foundation.

At basement level, pile caps are provided for the primary structural columns and a piled base is provided to the central core. The basement slab is 350mm thick spanning between pile caps and additional lone piles are provided internally to reduce the span. A large step is present in the basement slab between two levels which are approximately 1m different. The water table has been measured above both levels of the slab so the slab has been designed to span between piles due to uplift, and many piles are required to resist uplift.

The in-situ reinforced concrete core provides stability to the building, with the walls varying between 250mm to 350mm thick. The core houses six lifts and two staircases, with risers provided to the exterior of the core. 350mm thick walls are provided where steel beams are incoming as this allows cast-in plates to be inserted into the core during construction for connectivity between the two.

Effective horizontal ties are required at each floor and vertical ties are required between storeys to meet the requirements for 2B disproportionate collapse.

TYPICAL FLOORS

The concrete slab is typically 150mm thick on metal decking acting compositely with steel beams. SMDTR60+ is used for the decking, with a 0.9mm gauge deck suitable for the 3m span required. This slab also acts as a diaphragm to transfer lateral forces to the core.

The secondary beams are generally 610.UB's (rolled sections) which have a maximum span of 12m. These span between primary beams which are plated sections internally. The primary beams are plated because custom flange and web thicknesses can be specified, this allows for shallower (but heavier) sections to reduce the overall structural zone, along with increasing the stiffness of the web for cellular beam design.

Both primary and secondary beams are typically cellular beams, with 450mm diameter cells provided at 900mm centres to allow services to pass through. At riser locations elongated openings are required in some areas which require stiffening and where this is the case plate girders are provided.

The floor plates have been developed to accommodate typical office-imposed floor loadings in accordance with defined codes of practice. The maximum beam-span for a typical office floor plate is approximately 12m which means they may be sensitive to dynamic effects, which is controlled by limiting the response factor to a maximum of 8. Each floor plate is limited to a maximum total deflection of 50mm beyond the structural zone, which in combination with the depth of the primary beam results in an overall structural zone of 1000mm excluding tolerances. Where secondary beams are supported off primary beams, cumulative deflections are present. This is covered further in section 8.5.

STABILITY CORE

The central stability core resists lateral and longitudinal loadings arising from wind together with notional horizontal loadings generated from construction imperfections. These forces are transferred to the core via the composite floor slabs at each level acting as diaphragms. Reinforcement is provided to the core walls to resist compressive and tensile loads arising within the core, which is reduced up the building as the forces reduce.

The wall thicknesses vary between 250mm – 350mm. The larger thickness of 350mm is used where cast-in plates will be placed to allow steelwork to connect later. The narrower thickness of 250mm is used between lifts where there are no incoming cast-in plates and the walls are less heavily stressed.

Pull-out bars and couplers were required to connect incoming RC elements to the core.

The steel beams will be connected to the RC core using cast-in plates, whereby a steel plate with reinforcement and shear studs to the rear is fixed and cast as part of the core construction. The steelwork fabricator will then weld a fin plate onto the cast-in plate after the core has been constructed.

PODIUM

In-situ concrete construction is used at ground floor level and below. This is partially to accommodate level changes at ground floor which can be accomplished by forming steps in the in-situ slab. This slab is also required to transfer shear and compressive forces from the earth from one side of the basement to the other, which is more efficient in RC flat slab construction as opposed to composite steel & concrete.

Concrete columns have been introduced between basement and ground to reduce the span of the suspended slab. The primary steel frame will be built off of the podium which will need to be sufficiently cured prior to the erection of the steel frame.

STEEL COLUMNS

Rolled steel column sections have been utilised on a regular grid located to the perimeter of the building, this results in columns at 6m centres. On the lower floors there are 5 internal columns, 3 of which are required due to the step in the building and 2 are required to reduce the span of the primary beams.

The two internal columns on gridline F carry more load than the rest of the columns as they support a much larger floor area. As they are also not positioned on the capping beam, they require an RC stub column below which needs to be large enough to tie the two together for disproportionate collapse. The stub is also larger than the steel column as RC has a lower allowable compressive stress in comparison to steelwork.

In general, it is assumed that the first splice occurs above level 1 and then splices occur every 2 storeys after, which is where the steel section sizes reduce.

EXTERNAL CLADDING

The cladding will consist of a primarily of panels which combined precast concrete and glazing. A loading on elevation of 5.0 kN/m² has been allowed for this. This cladding system is assumed to be supported at column locations and does not directly load the slab. Elsewhere a primarily glazed system is used and a loading allowance of 1.5 kN/m² on elevation has been allowed for this, e.g. the inset level 12 office space. The glazing is assumed to be bottom-supported at every stack.

ROOF AND TERRACES

At level 12 the building is inset to provide an external terrace to the perimeter of the building and a reduced office space at the same level. The inset columns are supported on transfer beams at level 12 which supports plant loading from level 13 above. A plant screen is provided at level 13.

At all locations of external terraces, the parapet is formed by extending the perimeter columns past the floor level to create a full-height external wall. Any parapets should span between external columns to avoid cantilevered parapets fixed to the composite decking.

SERVICES DISTRIBUTON

Services have been coordinated through a series of key risers principally around the core. Early discussions with the M&E consultant have determined that large risers could be located near the perimeter of the central core, primarily to the perimeter of the WC's located just outside the core. The position of the risers impacts the internal column locations and setting out of any adjacent steelwork.

To the perimeter of the risers, cells (elongated where possible) are provided to allow services to pass through. These openings can be uniform up the building and can be pre-fabricated. As the riser positions and WC's are just outside the core, this will reduce the number of service penetrations through the core.

2.2 LOADING CRITERIA

This section of the report outlines the key design criteria for loadings that have been adopted in developing the permanent proposals.

The design loads and material densities in this document have been specified in accordance with BS EN 1991 11:2002, General Actions- Densities, Self-weight, Imposed Loads for Buildings. In addition to the design loads specified, the structural design and loadings are to meet current Building Regulations and legislative requirements.

The associated structures have been developed in accordance with the Eurocodes and the most onerous combination of dead, imposed and wind loadings has been considered in the permanent ultimate condition.

STRUCTURAL LOADS

Permanent/Dead loads (DL) take into consideration the self-weight of floor slabs, structural walls and columns; in effect the self-weight of the building shell before finishes are applied. Dead loads are calculated in accordance with BS EN 1991-1-1:2002, relevant trade literature and the client brief.

Superimposed dead loads (SDL) account for the finishes that are applied to the building shell, usually as part of the fit-out. Assumed superimposed dead (uniformly distributed) plan loads in the permanent case are summarised in the following table 7.1.

Variable/Imposed loads (IL) are those loads generally associated with the occupation and use of the building after fit-out. They include an allowance for people, furniture, machines and appliances, fixtures and fittings, partition walls and plant and essentially cover loads which could vary during the building life. Snow loads on the roof are considered as a variable load.

Loading plans have been produced showing the loads used for design, these are provided below

FILE STORAGE (ENHANCED OFFICE)

In accordance with the BCO requirements for offices, an increased imposed load of 7.5kN/m² should be taken over 5% of the office floor areas to account for file storage. The following locations have been proposed:

- Adjacent to the straight core wall parallel to and between gridlines D & E (52m²) chosen for its proximity to the core and to only load the end of a primary beam.
- To the rear of the core adjacent to the WC's (2 x 10m²) chosen as a result of the smaller primary beam spans. The location of file storage loads are shown on the loading plans.

CLADDING LOADS

The cladding loads are provided on the loading plans.

WIND LOADS

Wind loads have been calculated in accordance with BS EN 1991-1-4:2005 (Actions on Structures-General Actions-Wind Actions) and are considered in conjunction with permanent, superimposed dead and variable loads on the structure in accordance with the requirements of Eurocode 2 (Design of Concrete Structures) or Eurocode 3 (Design of Steel Structures) as relevant.

LOCATION	MANCHESTER
Wind Speed Velocity	V _{b,map} = 21.7 m/s
Distance to shore	L _{shore} = 150 km
Altitdude above sea	A _{alt} = 100.00 m (AOD)
Fundamental Wind Speed Velocity	V _{b,0} = 23.9 m/s

TABLE 2.1 - WIND LOADING PARAMTERS

HORIZONTAL LOADS

Any structure anticipated to be adjacent to vehicular movements is not intended to be specifically checked for vehicular impact loading. Sacrificial barriers are assumed to be provided. Any elements not protected will need to be designed as critical elements.

Pedestrian balustrades will be designed in accordance with public assembly requirements where required in accordance with the National Annex to BS EN 1991-1-1:2002 Table NA.8. The design lateral loads for handrails and impact barriers are given below:

REF	CAT	SUB-CAT	DESCRIPTION	UDL (kN/m)
B1	C33	vi	Stair and communal areas (no overcrowding)	0.74
B2	C13	vii	Balconies/Roof edges (no overcrowding)	0.74
B3	C5	ix	Footways adjacent to sunken areas (overcrowding)	

TABLE 2.2 - PARAPET LOADING

SNOW LOADS

The design snow loads at roof level have been calculated in accordance with BS EN 1991-1-3:2003 and are shown in table 7.4.

LOCATION	COVENTRY
Basic snow load	s _k = 0.50 kN/m ²
Site altitude	A _{alt} = 100 m (AOD)
Site snow load	s _k = 0.50 kN/m ²
Shape coefficient	μ1 = 0.80

TABLE 2.3 - SNOW LOADING PARAMETERS

Where snow drift loads are considered significant to the design of the superstructure and associated cladding, these should be calculated in accordance with BS EN 1991-1-3:2003

NOTIONAL HORIZONTAL LOADS

Notional horizontal loads are to be calculated in accordance with the following:

BS EN 1996-1-2:2005 — Code of Practise for Use of Masonry;

BS EN 1993-1-1:2005 — Structural Use of Steelwork in

Buildings;

BS EN 1992-1-1:2004 — Structural Use of Concrete.

LOADS ARISING DURING EXECUTION

The Contractor was to develop the construction methodology and make due-allowance for temporary construction loads that may exceed the loading allowances.

Where snow drift loads are considered significant to the design of the superstructure and associated cladding, these should be calculated in accordance with BS EN 1991-1-3:2003

2.3 FIXINGS INTO PRIMARY STRUCTURE

All fixings to the structure should be approved for the fixing substrate.

All fixings are to be installed in line with the manufacturers guidance.

When making fixings to structural elements, the fixed element should not exceed the design load of the installed structure, illustrated within the loading plans.

If questionable, a structural engineer and or building control must be consulted prior to installation of any elements.

3 SIGNAGE

3.1 CANOPY SIGNAGE

The 2no. canopies above the retail entrances have a preinstalled support rack to allow stainless steel letters to be fixed on top as signage.



VIEW OF THE TWO RETAIL ENTRANCE CANOPIES

3.2 BUILDING SIGNAGE

Signs can be mounted internally within the retail unit in the locations indicated below.



RETAIL SIGNAGE TO SOUTH ELEVATION



RETAIL SIGNAGE TO WEST ELEVATION



DATUM FOR INTERNAL SIGNAGE

External flag signs can be used as an alternate option and mounted in the two locations indicated on the elevation. These signs must be mounted in the centre of the smooth precast concrete band to the façade. The underside of the sign must align with the top of the glazing panel. The sign should also be spaced off the façade with pin dowels providing the only means of support back to the precast panel.

If larger signage or a combination of these signage options is referred a proposal should be presented to the Landlord for approval.





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4 ACOUSTIC NOISE & VIBRATION

4.1 ACOUSTIC NOISE & VIBRATION

WALLS

The demise wall between the retail unit and office is formed from blockwork and will need to be suitably enhanced to achieve the acoustic separation performance of DnT,w48.

NOISE EMISSION TO ADJACENT AREAS

The tenant shall be responsible for limiting noise within their demise to avoid disturbance to adjacent occupants. The tenant shall design and install any measures in their fit-out to ensure they achieve this. Any amplified music systems shall be fitted with a noise limiting device which shall be set on the completion of the fit-out to ensure that there is no disturbance to any adjacent tenancy. The noise limiter settings shall be maintained thereafter unless alterations are approved by the Landlord. Any loudspeakers shall be resiliently connected to the structure.

Tenant noise intrusion on adjacent tenants spaces must be limited to 55dBLA1.

The tenant is required to discuss and agree with the Landlord any noisy construction or fit-out activity so

that this can be timed to avoid disruption to any other neighbouring landlord and/or tenant areas.

VIBRATION

The design shall ensure that the maximum peak acceleration in the building structure of 0.01m/s based on the Wb weighting curve as defined in clause 3.3 of BS 6472-1:20082 when the building services operate simultaneously at design duty load conditions.

EXTERNAL NOISE

Noise from plant equipment needs to be limited to minimise disturbance to existing (and new) noise sensitive premises in the vicinity of the development, and new noise sensitive premises within the development.

The cumulative free field building services noise emission limits for all plant associated with the development are 54 dBLAr,Tr3 day time, 42 dBLAr,Tr3 night time.

The following cumulative plant noise emissions limits shall apply:

- Noise from rooftop plant shall be limited to 60dBLAr,Tr3 at 1m from the perimeter of the building at roof level.
- Noise from rooftop plant shall be limited to 48dBLAr,Tr3 on balconies and rooftop terraces.
- Noise from louvres shall be limited to 48dBLAr,Tr3 at the nearest public circulation point.

INTERNAL NOISE

Internal noise within office areas including services and noise ingress from outside has been designed to achieve NR 38. Similar noise levels could be expected in the retail unit. Any new plant shall not increase the noise level in adjacent tenancies.

For further information refer to the Acoustics Employer's Requirements produced by Arup.

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MECHANICAL & ELECTRICAL SYSTEMS

5.1 **INCOMING SERVICES**

The retail unit at Ground Floor level is constructed as a shell unit that is to be fitted out by the incoming tenant. It has been furnished with the following incoming services:

- A 200 Amp TP&N power supply
- A 32 mm (MDPE) mains water supply
- Pop-up drainage connections
- Automatic sprinkler protection
- Fire Alarm Interface

POWER SUPPLIES

The power supply to the retail unit originates from the building's low voltage switch board where it is metered. The supply is terminated in the retail unit switchroom with a 200 amp TP+N isolator

WATER SUPPLIES

The incoming water supply is metered by Severn Trent Water independently from the remainder of the office development. The supply enters the cold water storage tank room where it is fitted with a bib tap as a temporary provision before fitting out takes place. The tenant is to extend the water supply from the tank room to the retail unit in a location to be determined by the tenant at the fitting out stage.

The incoming tenant is to equip the water supply with a second water meter within the retail unit and allow for the meter to be connected to the building's BMS. This meter compares the consumption with the Severn Trent meter as means of checking for leakage in the incoming supply pipeline.

TELEPHONE

There is a Comms room adjacent to the retail unit for the tenant to arrange connection by their preferred Internet Service Provider.

DRAINAGE

Pop drainage connections are provided as indicated on the drawings. A tenant wishing to install a commercial kitchen is to install a grease trap to prevent any grease laden discharge from entering into the Landlord's drainage system.

AUTOMATIC SPRINKLERS

The development is sprinkler protected to an Ordinary III Hazard classification as defined by BS 12845.

The retail unit is served from the sprinkler water supplies in the basement where it is connected to the 'Low Rise' element of that system. The sprinkler connection to the retail unit is inclusive of a zone check valve to allow for local isolation whenever the sprinkler installation is to be modified and/or extended to suit fitting out.

The shell of the retail unit is inclusive of an array sprinklers close to the underside of the ceiling to provide initial protection in accordance with the sprinkler British Standard. This arrangement is to be modified as necessary by the tenant with all works carried out by a reputable registered sprinkler sub-contractor

FIRE ALARMS

The retail unit is equipped with a fire alarm interface unit to relay status/alarm conditions to the Landlord's fire alarm system for the remainder of the office development.

5.2 HEATING AND COOLING

It is anticipated that the retail unit will be heated and cooled by a refrigerant-based VRF or by split system air-conditioning/heat pump units. This equipment is to be designed and installed by the tenant. Condensers for this equipment are to be installed at roof level with pipework installed in the riser connecting the retail unit with the roof.



FIGURE 5.1 - TENANT SPACE ALLOCATION AT ROOF LEVEL



FIGURE 5.2 - RETAIL UNIT SERVICES CONNECTIONS

5.3 EXTERNAL LOUVRES AND VENTILATION

General Supply and Extract Ventilation

All supply and extract ventilation serving the retail unit is to be introduced and discharged through louvres located in the external envelope of the unit. Figure 5.2 shows the location of the external louvres. The ventilation systems may need to incorporate sound attenuators to ensure that noise levels external to the unit satisfy the requirements of Coventry City Council. All ventilation equipment is to be designed and installed by the tenant and to be approved by the Landlord.

Commercial Kitchen Ventilation

The following approach will be necessary in the event of a tenant wishing to equip the retail unit with a commercial kitchen.

The kitchen exhaust air is to be discharged through the louvres in the external envelope as previously described. The exhaust air is to be treated by way of the following components within the exhaust airstream:

- Grease filters within the kitchen extract canopy
- Ultra-violet lamps within the kitchen extract canopy
- An electro-static precipitation (ESP) filter
- An activated carbon filter



TYPICAL FIGURE 5.3 - TYPICAL SCHEMATIC OF A SUITABLE AIR SYSTEM

Plus any other pre-filters required to protect components that might otherwise be sensitive to the grease-laden kitchen exhaust airstream.

The air treatment system is to ensure that the outgoing kitchen exhaust air is to be free of particulate matter and odours. The tenant may need to consult Coventry City Council's Environmental Health Officer when discharging kitchen exhaust air to outside.

Figure 5.3 indicates a typical schematic arrangement a suitable air treatment system.

Outdoor air, to replace the kitchen exhaust air, is to be introduced through the louvres in the normal way.

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6 ACCESS FOR MAINTENANCE & WASTE MANAGEMENT

6.1 ACCESS REQUIREMENTS

The rainwater pipe adjacent the entrance door may need to be accessed by the landlord should there be a problem with the drainage. Therefore the layout of the retail unit should accommodate this providing clear space in front and an access panel for rodding.



6.2 WASTE MANAGEMENT

There is a dedicated retail bin store to the rear of the retail unit and the Tenant will be required to provide its own bins and waste collection service. Tenants will be required to ensure that their refuse is properly emptied into the bins, and that any spillage is cleaned up immediately, to keep the area clean and tidy.

No waste is to be stored outside the building or on the external footpath, under any circumstances.

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7 APPENDICES

ARCHITECTURAL DRAWINGS


























STRUCTURAL DRAWINGS

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GENERAL NOTES:

DO NOT SCALE THIS DRAWING, MAY AMBIGUITIES, OMISSIONS AND ERR ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTON IMMEDIATELY, ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.

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FOR GEMERAL NOTES REFER TO DRAWING

ALL DISTURBED GROUND TO BE REINSTATED WITH GRANLAR FILL IN ACCORDANCE WITH THE SPECIFICATION. 4. NEW DRIVE UNDER THE GROUND SLAB ARE TO BE BACKFILLED IN ACCORDANCE WITH THE SPECIFICATION SOFT SPOTS UNDER THE GROUND SLAB. ARE TO BE EXCAVATED AND ANX SPLICED WITH HARDCORE IN ACCORDANCE WITH THE SPECIFICATION. ALL PROPRETARY PRODUCTS ARE TO BE USED STRICTLY IN ACCORDANCE WITH THE MANIEU/THEORY OFTALLS AND DEVELOPMENTS ALL DMENSIONS ON STRUCTURAL DRAWINGS ARE RELATED TO CENTRE LINES, UNLESS NOTED OTHERWISE EXCEPT IN THE CASE OF CHANNELS AND ANGLES INVERTIGATION OF AND AND LESS OF CHANNELS AND ANGLES THE CONTRACTOR SHALL ENSURE THAT TEMPORARY LONDS IMPOSED ONTO NEW STRUCTURES SHALL BE LESS THAN THOSE FOR WHICH IT ING BEEN DEPENDENT. A THE ECH LOWING ARE NOT SHOWN ON THE STRUCTURE DRAWINGS PLANT BASE AND UPSTANDS LOCATION OF ANY CAST-IN SERVICES DUCTS UNDER AND CAST-IN SERVICES CURDING COMPETIONS 8. REFERENCE SHOULD BE INHOE TO THE RELEVANT ARCHITECTURAL, SERVICES OR SLE-CONTRACTOR DRAWINGS FOR THIS INFORMATION. 10. REFER TO ARCHITECTS DRAWINGS FOR THE FOLLOWING: THERMIK INDULATION CITALS CLADOR AND CLADORS STITLES PROBLES AND SCREED CETALS LANGEORPHS TANKING IND WITERPROOPING CETALS 11. THE STRUCTURE IS DESIGNED FOR THE PERMANENT CONDITION ONLY. THE CONTRACTOR IS RESONABLE FOR THE STRUCTURE OF THE STRUCTURE DURANE OT THANKING CONSTRUCTION AND THEOROGEN FOR REQUIRED DURANE CONSTRUCTION. IF THE CONSTRUCTION RESIDE TO LISE THE PERMANENT STRUCTURE ALT TEMPORATION FORCE STATE CONSTRUCTION AND TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE PERMANENT STRUCTURE ALT TEMPORATION FORCE STATE CONSTRUCTION AND TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE THE ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE CONSTRUCTION RESIDES TO LISE TO LISE TO ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE ADD THE ADD THE ADD THE ADD THE ADD THE ADD TEMPORATION AND THE ADD THE 12 CONSTRUCTION CHONG NOTE: SELF HEIGHT OF CONCRETE DANNEY TEMPORARY CONSTRUCTION LOADING ON HETAL DECK 1.5MIH LOCALLY OR 0.75MIH² WIEN CONSIDERING THE ENTIRE LEMENT OF THE EDUIL 1. NEAPING OF WET CONCRETE MUSIF BE STRICTLY AVOIDED. IF TEMPORARY CONSTRUCTION COMPARE (NEW TO EXCEED SUMMET THE DECK MANUFACTURER IS TO BE CONSULTED. INVERSE LISEN IN ONE CONTRACTOR DURING AND THE RECURRENTS CONTRACTOR OF THE SET OF THE SET OF THE RECURRENTS CONTRACTOR TABLE IT BECAUSE ON A DEY TO DURING DURING RECTORY HORS AND MITTERS TO BE CONTRACTOR TO BET ALL BESLES ASSOCIATION INTO FUE OFFICIAL RECORDERATION OF THE SET ON ONE AND ADDRESS AND THE SET OF THE SET OF THE SET OFFICIAL RECORD SET OFFICIAL DURING AND THE SET OFFICIAL RECORDER TO THE MARTINE STATULE OFFICIAL RECORDER TO SET OFFICIAL RECORDER OF SET OFFICIAL DURING RECTOR TO SET ALL BESLES ASSOCIATION INTO CORRECT RECORDER TO SET OFFICIAL RECORDER OF SET OFFICIAL DURING RECORDER TO SET OFFICIAL RECORDER OFFICIAL RECORDER OFFICIAL RECORDER OFFICIAL RECORDER OF SET OFFICIAL RECORDER OFFICIAL 5. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO ENSURE THAT NOISE, VIBALTON AND OUST RESULTING FROM THE WORKS IS KEPT

1. THE EXECUTION CLASS FOR THE PROJECT IS EXE ONLY SUB-CONTRACTORS WITH CE MARKING ACCREDITATION SHOULD BE APPOINTED.

SENERAL NOTES

16. FOR DPM, WATERPROOFING AND INSULATION REQUIREMENTS REFER TO ARCHITECTS DETAILS. 17. LOCATIONS AND SETTING OUT OF RECESSES TO DOOR CLOSERS TO BE CONFIRMED BY THE ARCHITECT.

18. REFER TO ARCHITECTS AND BULDERS WORK DRAWINGS FOR ALL HOLES N THE FLOOR UP TO 300mm x 300mm. ALL BUILDERS WORK HOLES THROUGH THE STRUCTURAL ELEMENTS OF ALL SEES TO BE AGREED WITH STRUCTURAL ENVENEER REFORE BUILDER FORMED. 19. OPENINGS WITHIN THE FLOOR JEXELLOING STAR VOID) TO BE DEDKED OVER TO PROVIDE FALL PROTECTION 20. PROVIDE A SEALING COMPOUND TO THE SLAB TO PREVENT MOISTURE DAMAGING FINISHES (TO ARCHITECTS SPECIFICATION).

21. A LEVELUNG SCREED IS TO BE APPLIED TO THE SLAR. THE THOMESS AND SPECIFICATION OF THE SCREED IS TO BE TO ARCHITECTS DETAIL. 2. THE INFORMATION PROVIDED IS CONSIDERED TO BE DEVELOPED TO THE RELATIVE REAL STARE. THE CONSIDERED TO BE IS THAT AS THE DESIGN IS DURING THE DEVELOPMENT AND THE DESIGN IS CONTRUCTOR FULLY CO-ORDINATED WITH THE PROJECT TRAM, THE CONSTRUCTION DRAWINGS PRODUCED MAY CHARGE FROM THE TENDER INFORMATION FROM WHICH THE BLL OF QUANTITIES HAS BEEN PRODUCED.



CONCRETE GENERAL

 ALL BASES MUST BE CAST 7 DAYS PRIOR TO ERECTION OF STEELWORKMASCORY WALLS. 2. THE MINIMUM LAP LENGTHS TO BE AS FOLLOWS :

 A JUS MESH = 20mm
 XOU COMPOSITE DECK - 25mm TOP
 CONCRETE ELEMENTS ON PLES - 75mm BOTTOM, OTHERWISE 45mm
 FOR COVER FOR SPECIFIC ELEMENTS REFER TO RC INFORMATION. 4. ALL CONCRETE ENCAGED STEEL SECTIONS TO HAVE DHI WRAPPING FAIRIC AROUND SECTIONS, REINFORCEMENT TO BE PLACED CENTRALLY WITHIN COVER.

 REFER TO ARCHITECTS DRAWINGS FOR DETAILS OF REBATES, CHAMFERS, ETC TO EXPOSED CONCRETE CONSTRUCTION. 4. THE COMPRETE GRADES FOR EACH ELEMENT IS SPECIFIED ON THE DRAWING SHOWING THAT ELEMENT FOR CONCRETE USED IN FOUNDATIONS, THE DC CLASS OF THE CONCRETE GRADE SHOULD BE IN ACCORDANCE WITH CURTING SITE INVESTIGATION

 FOR TENDER, THE REINFORCEMENT ESTIMATES ARE PROVIDED ON THE DRAWINGS FOR COSTING PURPOSES, REINFORCEMENT SCHEDULES ARE PRODUCED AT STAGE 5 FOR COMPTON TOTAL STAGE 5 FOR COMPTON TOTAL WHERE POST FIXED CONNECTIONS ARE PROVIDED INTO CORE, ALLOWINGLE IS TO BE WASE FOR FERROSCIANIER TO AVOID DRILLING THROUGH THE REBAR.

19. STEEL CHARGE REQUIRED FOR SUPPORT TO BE DESIGNED BY THE CONTRACTOR. CHARGE ARE TO BE OF ADEQUATE STABILITY AND NUMBER TO MAINTAIN THE DESIGNMENT IN IS CONTRACT STABILITY AND NUMBER TO MAINTAIN THE 11 EOR SPECIAL SURFACE ENVISIES REEER TO THE ARCHITECTS DETAILS.

PROFILES: . EXTENSI DE LE TENCIÓNE O COLORISTE ALLONANCE I POLA DE NOR P . EXTENSI DE LE TENCIÓNE DE LE TENCE DE LE TENCE ANNO DE LE TENCIÓN DE LE TENCIÓN DE LE TENCE RESOLUCIÓN DE LE TENCIÓN DE LE TENCIÓN DE LE TENCE RESOLUCIÓN DE LE TENCIÓN DE LE TENCIÓN DE LE TENCE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNO DE LE TENCE DE VERTI DE LE TENCE DE LE TENCE DE LE ANNOVEMBRE COLORISTE ALLON DE RENCHO DE VERTI DE ANNO DE LE ANNO DE LE TENCE DE L TOP OF POUNDATIONS LEVEL AS SPECIFIED ON THE DRIVINGER FOUNDATIONS TO BE LOBERED LOCKLY FOR DRIVING AS INDICATED ON THE FUND. ALL DRIVERS TO BE MORE FOR DRIVING. AL CENDRIT POREATION TO BE OUT ADARTY A BUTNER BLADING LIVER ON BUTNER BEADING LIVER A WHERE EXERTING DRIVEL AND POLIDEATIONS OCCURRENTIATIVE POLIDEATIONS THEY WE TO BE DRUBBED OUT, SOFT SPOTS AT POLIDEATION LIVELS AND TO BE EXCILATED INC. RECYCLED IN ACCORDANCE WITH THE SPECIFICATION. WHERE EXERTING FOUNDATIONS OCCURRINGER THE OPERATE SHARE THE TOPEANE TO BE CUT DOWN TO SEENING THE INDERED OF THE INDUST SHARE AND INCOMPLETE INACCOMPANIES INTO THE INDERED FOR THE INDUST STATE OF INFORMATION. THE CONTINCTOR IS REPORTED FOR THE PROVIDER AND MANTENANCE OF ALL TEMPORARY RORKS INCLUDING INDEXEMPLOYEES, BLOPE ETHELITY, TEMPORARY DRIVING & PROFECTION OF FORMATION IN RELATION TO PERMANENT WORKS. ALL FOUNDATIONS TO BE EXCHANTED AND CONCRETED IN SAME DAY. PORTAGETING BERINGSENTLITES REPORT TO PROJECT DAVANCE. CONTRACTOR TO SUPPLY ALL RESIRF REQUIRES TO LOCY TA AND SUPPORT THE BOLT CASES STREAMORE CONTRACTOR IS TO SUPPLY DETAILS OF ALL HOUSING DOWN BOLTS AND SULE HOUSING DOWNED. IS TO SAVE CONTRACTOR NUME WITH A SPREID PRODUMENT PROJEMBE: MENON MICE SECURD LODEL INTERE, MENON SOFT SPOTS APPOOR MOL. POBLICIN, GROUP THE RECORD OF TO SAME POMARTON IN SERVICE ACCORDENCI SHIT HE ARTHONY SHOP (CALCULAR) MANDAR TOPPODE OF FORMATCHE SHALL NOT BE PERMITTED. ORDINE RATER EXCLOSES ANTOPATES CURRENT FOUNDATION AND OR DRAINAGE EXCANTORIAND THAT APPROPRIATE EXPOSING ORDINE RATER EXAMINED AT EXPLOSED. IN ACCORDANCE RIMY THE BROAD DIATER EXCHONORIE RESULTS, REFER TO THE EXPLOSION THE RESOLUTION OF STOLES WATER PROVIDE STILL THE RESPONSE UTY OF THE CONTACTOR. THE CONTACTOR MALE MATERY AMALEM STORAGETT TO THE DRUG MATER CONTINUE OF STILL AND THE MALEMENT COMA. WITH CONTINUE OF STILL AND THE MALEMENT COMPLEX. NEPERTO SPONO AVESTICA TO AREPORT REGREDED STE REMEDIATION
 NECOMEMORTORE PLING FOUNDATION DESIGN THE PILING LAYOUT INDICATED IS A PRELIMINARY DESIGN BY CURTING CONSULTING AND IS GAINED FOR GUIDANCE ONLY. THE RESPONSIBILITY FOR PILE DESIGN RESTS WITH THE COMTRACTOR. 2. THE PLING CONTRACTOR SHALL SUPPLY A FULL METHOD STATEMENT FOR THE WORKS TO CURTING CONSULTING FOR APPROVAL PRICE TO

STEELHORK

3. ALL PLE CAPS ARE TO BE CENTRED BELOW COLLARS UND. 4. REFER TO CURTING PLUNG SPECIFICATION.

5. REFER TO THE SITE INVESTIGATION FACTURE REPORT. 6. PLES SHALL BE UNFORMLY REINFORCED AROUND CIRCUMP PLECAPS AND GROUND BEAMS TO BE CONNECTED TO INSTITUTAT SLASS WITH REINFORCEMENT TO PROVIDE LATERAL RESTRAINT TO PLES. THIS MAY REQUIRE PROPRETARY PRODUCTS (COURLERS, PLU) OUT ANGE ETC) DEPENDING ON CONTRACTORS PREFERENCE METICO OF CONSTRUCTION

8. ALL PILES INSTALLED OUT OF TOLEPANCE SHILL BE REASSESSED BY THE PLING COMPACTOR AND PROVIDE ANY REQUIRED REMEDIATION DETAILS EXISTING PLES AND SUBSTRUCTURES PRESENT ON SITE WHICH MAY REQUIRE BRIDSHIG OF RELOCATING OF PROPOSED FOUNDATIONS. ALLOWINGE TO BE MADE FOR BREAKING OUT OF EXISTING PLES AND REMAINLA MEASURES.

POTENTIAL TOLERANCE AT CUT OFF LEVEL ATSINI ON PLAN.

VERTICAL TOLERANCE BELOW CUT OFF LEVEL Zone. PLE DESIGN FORCES SHILL BE WORSE COMBINATION OF THE FOLLOWING-

CONTRACTOR DESIGN PORTIONS

ALL LANGE LA

THE FOLLOHING IS A LIST OF COP ITEMS WITH RESPECT TO STRUCTURAL ASPECTS OF THE PROJECT

 PRECAST CONCRETE LIFT SHAFTS PRECAST CONCRETE FLOOR. TERRICES & STARCASES

ARCHITECTURN, METRI, WORK INCLUDING STARS, BALUSTRADES, HANDRALS ACCESS LACKERS, WALKINAYS, CLADDING AND ASSOCIATED FORMES (DICUDES IMACONY) PROPRIETARY MAGNEY SUPPORT SYSTEMS (AMCON OR SMILAR APPROVED)
 METAL DECKING

PLE DESIGN & ASSOCIATED PLING MAT CLRTAN HALLING, GLAZING AND WINDOH SYSTEMS INCLUDING STRUCTURAL FRAMING AND ALL ASSOCIATED CONNECTIONS SPECIALIST EXTERNAL RETAINING WALLS E.G. PLED RETAINING WALLS

CELING AND SERVICES SUBPORTSERVINGS CORROSICM DRUTE CTUCK BY STEEL WORK EMBYCATOR

NO DECKING TO BE CUT DOWN TO SINGLE SPWY WITHOUT CONSULTATION WITH THE SPECIALIST DECKING SUB-DESIGNER, ADDITIONAL REINFORCEMENT WILL BE REQUIRED IF DECKING IS TO BE SINGLE SPIN.

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 THE STRUCTURE IS TO BE DESIGNED IN ACCORDINCE WITH BUILDING BEGULATION TO LIAIT DEPENDENTION AT COLLARSE AND IS CATEGORISE AS ASTRUCTURE CATOLOGY 1 THE CONTRACTOR IS RESONABLE TO THE DESIGN AND CETALINAS OF STREEL CONNECTICNES WHICH ARE TO BE DESIGNAD TO SATISTY DESIGNMENTIONIL COLLARSE REQUIREMENTS, LONDS TO BE PROVIDED AT STAGE 3. 40. ALL EXTERNAL STEELWORK TO BE GALVANSED IN ACCORDANCE WITH CURTING STEELWORK SPECIFICATION 45. INTURESCENT PAINT TO BE PROVIDED TO ALL STEELWORK REQUIRING FIRE PROTECTION. FOR REQUIRED FIRE RATING REFER TO ARCHITECTS DETAILS OR FIRE STRATEGY 2. ALL STEELWORK TO BE IN ACCORDANCE WITH BS EN 1980 AND CURTINS STEEL WORK SPECIFICATION ALL STEELWORK TO BE PANTED IN ACCORDANCE WITH THE CURTING PAIN SPECIFICATION ADDITIONAL CONTINUES TO BE ALLOWED FOR INVERSE STEELWORK IS TO BE LEFT EXPOSED DURING CONSTRUCTION 4. ALL STEELWORK TO BE CONCRETE ENCASED IS TO BE LEFT UNPAINTED. 5. ALL HOLDING DOWN BOLTS TO BE POSITIONED TO (4-) SHIM AND FIXING DESIGNED TO ALLOW A FREE MOVEMENT OF 45HM IN ANY DIRECTION. 6. ALL BASEPLATES TO HAVE 1 NO GROUT HOLE IN ADDITION TO HOLES FOR HOLDING DOWN BOLTS. ALL DIMENSIONED DE CHECKEDISCHERMEN BY THE FABRICATOR PROB TO FABRICATENICOMSTRUCTION THE FABRICATOR TO INFORM HAIN CONTRACTORICO AND CAMPAGINAL DESCRIPTION THEORY FADINITY OF ANY CONTRACTORICO AND CAMPACING TO COMMUNICATION OF FABRICATENICOMSTRUCTION. 46. COLUMN SPLICE LOCATIONS TO ACCOUNT FOR COLUMN PRE-SETTING AS SPECIFIED AT STAGE 5. ALL BASEPLATES TO BE GROUTED USING HIGH STRENGTH NON-SHRINK GROUT AFTER STEEL HAS BEEN LINED AND EXVELLED IN ACCORDANCE WITH THE CURTING STEEL HORK SPECIFICATION. 9. ALL STEELWORK BELOW GROUND IS TO BE ENCASED IN TSMM MIN CONCRETE. 19. ALL COLLIMING TO BE CENTRALLY LOCATED ON INTERSECTIONS OF GREE UND. ALL CONTRACTOR NOTE FOR DRIVING 11. FOR THROUGH DECK WELDING, TOP FLANGES OF SUPPORT BEAMS MUST BE CLEANED AND FREE FROM PAINT. 12. CIRCULAR HOLLOW SECTIONS ARE TO HAVE NO VISIBLE FABRICATION SERVIS & SEALED. 13. THE DESIGN OF THE FOLLOWING SECONDARY STEELWORK ITEMS PLUS THEIR CONNECTIONS ONTO THE PRIMARY STEEL FRAME IS THE RESPONSIBILITY OF THE RELEVANT SUB-CONTRACTOR.

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 SECONDARY SUPPORT STEEL WHERE CLOSED SECTIONS ARE DRILED TO FORM CONNECTIONS TO OTHER STELL OR HULDNE LILINETS THE CONNECTION SHALL BE DRIVED TO BRADIE THE HILL IS SHALL ON A MARKET TO REVICE ACCULATE CORRESSION FRONTECTION TO THE INSEES OF THE CLOSED SECTION AND FROMETOTION AND/REVIEW IN HILL CONSIGNATION AS DURING.

19. ALL STEEL MEMBERS SUPPORTING CONCRETE SLABS (INCLUDING THOSE FORMED WITH PERMANENT METAL DECKING (SHOULD BE TREATED AS COMPOSITE BEAMS IN ACCORDANCE WITH BS EN 1994 22. SPECIALIST MANUFACTURER TO DETAIL DECIMINE LANCET TO MINIMUE SINGLE 25. ANNE MINISTER DECIMINE RECEIVE RECEIVER AND AND AND AND AND CHROMMER EDUCATION AND AND AND AND AND AND AND AND CHROMMER EDUCATION OF THE MET CONCRETE AND ANY OTHER CONSTRUCTION LONGS.

21. WHERE DECKING IS INDICATED AS RUNNING PERFENSIOULAR TO FLOOR BEAMS, THE LATERAL RESTRANT OFFERED BY THE DECK HAS BEEN RELED LICEN IN THE DESIGN OF THE BEAMS 22. MULTISPAN DECKING INUST NOT BE CUT WITHOUT THE CONSENT OF THE DECKING MINIUF ACTURER.

22 COONING MIGT BE CLARE OF GRAVE AND DRT, WHCH COULD ANVERSELY AFFECT THE BORDING INNERER, MY WATER SOLIDE COL BRANING ON THE DOORING FROM THE ROLLING PROCESSES NEED NOT BE REMOVED. 34. WEDNOT THROUGH I'ND THODNESS OF SHEET STEEL SHOLLD BE AVIDED WHERE FOSSIBLE.

15. ALL STEELWORK TO BE GRADE SISSLE UND.

17. PROFILED METAL DECK, POUR STOPS ETC, TO BE INSTALLED IN ACCORDANCE WITH WARKER/INDERS RECOMMINICATIONS. THE COMPARISON MADE ALLOWANCE FOR EDGE. TRMS, POUR STOPS, TEMPORARY PROPPING AS RECURSED IN THIS TENSER.

KALL STELLWORK IS DESIXABLE ON THE BASIS OF FLOOR STELLWORK
 EXPLICITORS IS DESIXABLE ON THE BASIS OF FLOOR STELLWORK
 EXPLICITORS IN EACH OTHER OF SPACES OF MANAAULOF Some
 CLAMALATIC PRIMARY BEAM - SECONDARY REAM DISTLICTORS FLOOR
 SALAS ARE TO BE OVGED TO THEME AND THE TOP OF SLAP PROFILE
 WILL FOLLOW THE DEFLECTED SWAPE OF THE BEAMS.

27. TEMPORAY LATERAL RESTRANT TO COLLINAR PROPE TO THEIR PERMANENT CONNECTION TO THE ENANCED STRUCTURE HALL BE REPORTED POLINEARIDAR WING BEAM DESIDENTIARE HALL BE REPORTED INTER DURING HALL TO ALL THE AND THE AND THE AND THE NOTED OTHERWISE, HALL THE NOT PERMEASURE TO ALL OW HAY COLLING TO STAND DEPROPERTIES IN STOLEN DOWN BOLTS ONLY, EXCEPT DURING CONTROLLED ESCITION SEQUENCE.

28. SHEAR STUDS ARE TO BE PROVIDED TO ALL COMPOSITE BEAMS, SHEAR STUDS TO BE TIMIN DUMBETER 193mm L.A.W. HEARDE STUDS IN ACCORDANCE WITHES DH 1964. ALLOW FOR 2ND: STUDS PROVIDED TO ALL COMPOSITE BEAMS AT 200mm CENTERS. UNLESS NOTICE OTHER INSE. 29. STUDS SUBJECT TO BEND TEST SHALL NOT BE STRAIGHTENED.

20. A INVINUENT TRANSVERSE REINFORCEMENT IN THE FORM OF ADDIMENTIS INCLUED TO INVIRE AGAINST LONGTLINENAL SPLITTING OF THE CONCRETE TOO FLAVES AND AS CREAK CONTROL MISSI OVER THEMMONITE SUPPORTS, STEEL DOCONG CONTRACTOR TO CONFIRM ALL SLAB MESH & REINFORCEMENT REQUIREMENT.

32. ALL OPENINGS LARGER THAN 20mm SQUARE ARE TO HAVE LOCAL REINFORCEMENT OR TRIMMERS. SUPPLEMENTARY BAR REINFORCEMENT IS RECURED IN THE SLAR WHERE HOLES NOT TRIMMED BY STRUCTURAL STEEL EXCELD 20mm.

Revealed IN the and worker NLEE NOT TRANSED IN STRUCTURE, STEL EXCERD 2010m. 3) OPENNEZ IN THE FINANCIES AND A SIGLE PERTURAL VIE FORMED REFORM CONSTRUCTION TO AND ACCOUNT OF PRETBRACK VIE FOLGO BODI ETHERS CONSTRUCTION TO ADDICATOR TO ADDICATOR FORMAL SAME, VIENTING TO ADDICATOR TO ADDICATOR CONTROL SAME AND ADDICATOR TO ADDICATOR TO ADDICATOR OUT THE CONSTRUCTION AND ADDICATOR TO A SIGNATION OUT THE CONSTRUCTION AND ADDICATOR TO ALL SHOULD INVER BE COME.

ACCORNECT BALLY DE POUEDE L'UNA Y TO THE PANEL IDA Y THE DEPECTION OF SHALLY THE DE POUEDE L'UNAY Y TO THE PANEL IDA Y THE DEPECTION OF SHALLY THE DEPOUEDE LAURANCE OF MANY THE ALARCEN PERSIMANET SUPPORT A A NEET TO AL YIELD THE STATE ALARCEN PERSIMANET SUPPORT A A NEET TO AL YIELD THE THE STATE OF TO ALL PERSIMANET SUPPORT A A NEET TO AL YIELD THE THE STATE OF TO ALL PERSIMANET SUPPORT A A NEET TO ALL YIELD THE TO ALL THE TO ALL PERSIMANET SUPPORT A A NEET TO ALL YIELD THE TO ALL THE TO AL

2. WHEN CARRYING CUT DEMOLITION THE METHOD ADOPTED SHALL ENSURE THAT VIBRATION AND MOSE LEVELS WITHIN AND AROUND THE SITE PLUS THE ADJACENT BUILDINGS ARE ACCEPTABLE. 42. ALL MEMBERS AND THER END CONNECTIONS TO BE DESIGNED TO RESIST A TENSILE FORCE EDUAL TO THE END REACTION OF THE MEMBER UNDER FACTORED LONGS AS OUTLINED BELOW. THE CONTRACTOR SHALL BE RESPONSELE FOR THE ISOLATION DECOMECTION AND READYNL OF ALL EXTERNAL SERVICES CONNECTIONS WILLIAMS (MARKER LIGHTOFT) (MANAGE AND LIGHTOMANIA/ADDRESS, ANY SERVICES THAT CANNOT BE CUT OFF SHALL BE MARKED AND CAREFULLY PROTOCTIONAL THEAS, AS INVERVICES INSPECTION AND ADDRESS FOR MARKED AND THE CONNECTION OF SERVICE STATEMENTS. 42. ALL STEEL TO STEEL CONNECTIONS TO BE DESIGNED BY THE STEEL WORK FARDCATOR FOR UTIMATE LACS PROVIDED BY STRUCTURE, ENGINEER AT STRUE S. ALL BEAN TO DEMA AND BEAM TO COLUMNS TO BE DETAILED TO PROVIDE NORMAL TORSCOME, RESTRUCT. 4. THE CONTRACTOR SHALL LAISE WITH THE RELEVANT SUPPLY AUTHORITIES FOR THE SAFE TERMANDON OF AND EXISTING SERVICES WITHIN OR ADJACENT TO THE SITE BOUNDARY, AND TO AUTUOE THE DIVERSION OF ANY SERVICES AFFECTED BY THE CONSTRUCTION WORKS. 44. CAST IN PLATES CONNECTING STEELWORK TO THE RC CORE TO BE DESIGNED BY THE STRUCTURAL ENGINEER. FIN PLATE OR STUB FROM BEAM TO CAST IN PLATE TO BE DESIGNED BY THE STEELWORK FAREKENDE CAST IN PLATES TO BE IN STALLED IN ACCORDANCE WITH CUSTINE TO DEDANCES. 45. COLUMN BASEPLATES INCLIDING HOLDING DOWN BOLTS AR RESIN ANCHORS TO BE DESIGNED BY THE STEELIHORN FABRICATOR, BASEPLATE DESIGN TO BE SUITABLE FOR FOUNDATION TYPE GRADE OF CONCRETE. HEALTH AND SAFETY 1. CURTING ROLE OF THIS PROJECT IS THAT OF DESIGNER AS DEFINED BY COM REGULATION 14. AS SUCH THE DESIGN HAS BEEN CONSIDERED FOR REACOMBEL NUMBERS AND ASSOCIATED RESS. THE CONTRACTOR'S ATTENTION IS DRAWN TO THE HEALTH AND SAFETY MATTESS INHOH HAVE BEEN DENTIFIED WITHIN THE HEALTH AND SAFETY PLAN AS BEING POTENTIALLY INCAREDUS HOMEVER THESE TENS SHOULD NOT BE CONSERVED AS A COMPLETE NOT PHYLICAT. THE CONTRACTORS MORINAL HEALTH AND SAFETY GELIGATIONS INLL APPLY WHEN UNDERTAKING CONSTRUCTIONAL OPERATIONS BOTH ON AND OFF SITE. THIS ALSO APPLIES TO ALL SUB-CONTRACTORS AND SUPPLIERS.

NOTE STEELINGRI SUB-CONTRACTOR TO MARE SUITABLE ALLOWINGE FOR CONNECTIONS INCLUDING SUFFICIENT QUANTITIES FOR SPLICES TO FACULTATE INSTRUCTION. 43. THE STEELWORK CONTRACTOR SHALL BE RESPONSIBLE FOR SURVEYING THE EXISTING STRUCTURE IN ORDER TO ESTABLISH THE FINAL POSITION & SETTING CUT. 53. A CONTINUENCY OF 10% OF THE GROSS TOWINGE SHOLLD BE INDE FOR SECONDARY ELEMENTS OF STEEL WHICH MAY BE REQUIRED AS DETALED DESIGN OF THE BULDING IS DEVELOPED I.E.

NOTE: STELINORK SUB COMPACTOR TO MAKE SUITABLE ALLOWANCE FOR CONNECTONS MULLIONS SUFFICIENT GUARTINES FOR SPLICES TO FACILITATE INSTRULATION.

Landras de la constancia de la cons

25. SHEAR STUDS TO BE MANUFACTURED FROM LOW CARBON STEEL WITH MISIN IN YELD OT a 2004 and 10 TRATE TOKE & STORAGTI & 4004 and

31. HIS UBARS TO BE PROVIDED AT 600mm CENTRES TO PERMETER OF SLAB AND AD MORET STEVET TIGHT OPENINGS (PERES, SOLT SOLTS ET 1)

Le consiste du los estatos en tran per uno tre vien or tre course nel tres aprisos to lennami consorte i los au porsistoss or tre bocins (inter) nuer se perceto banevo construction usas popos alcon tre secon se porto possivilitation los popos alcon tre secon se porto possivilitation tres boccosary tre docinis fuest servicio for possivilitation tres boccosary tre docinis fuest servicio al neutra alcone.

DEDKING SHEETS WILL BE SUPPLED GENERALLY TO DEADLENGTH THE LANDUT IS TO BE CHECKED ENERY FEIH BAYS FOR EXCESSIVE CREEP AND SHEETS CUT AS REQUERED TO INCURE ALL END BEARINGS ARE WITHIN THE MINIMUM REQUERTIONS.

38. CONTRACTOR TO MAKE ALLOWANCE FOR ADDITIONAL CONCRETE REQUIRED DUE TO DEFLECTION OF DECKING.

47. SUB GRADES OF STEEL USED IN CONNECTIONS TO BE SPECIFIED BY THE STEELWORK FARROATER AS PART OF THE CONNECTION DESIGN. STARCASE SUB-CONTRACTOR

1. THE FINAL DESIGN OF ALL STARDAGE MEMBERS AND FOINSS WILL BE THE RESPONSIBILITY OF THE RELEVANT SUB-CONTRACTOR, FOLLOWING THE DESIGN AND INTENT DRAWINGS PRODUCED BY THE ENGINEER AND ARCHITECT. 2. ALL CALCULATIONS AND DRAWINGS SHALL BE SUBMITTED TO THE CA 4 WEEKS BEFORE COMMENCEMENT OF ANY WORKS. INFITERALS ALL STEELWORK, COACRETE OR TIMEER SHALL BE TO THE RELEVANT EURO CODE STANDARDS. LOADINGS ALL STARCASES SHALL BE DESIGNED FOR AN IMPOSED LOAD
 ALLOWINGE OF ANNI 5. DEFLECTION THE LIMITATIONS OF DEFLECTION OF ALL STARCASE MEMBERS ARE LISTED BELOW:

DEMOL/TION

AN EDUTING RETAINING WALL IS PRESENT ON SITE WHICH REQUIRES
 DERICUSIONS, ALONG WITH ASSOCIATED SUBSTRUCTIVE, CONTINUENT ON
 PROVIDE INFO DISTUTIENT FOR DERICUTION OF THE EXISTING FOLINOIS
 WALL, OME MUST BE TABLEM NOT TO LINEERAINE THE EXISTING FOLINOIS
 UNING ESERUCITION

INFOSED LOAD DEFLECTION A CONTINUOUS OR SIMPLY SUPPORTED MEMBERS SPAN + 360 B. CANTILEVER MEMBERS SPAN + 125, BUT NOT MORE THAN A MAXIMUM I OLD DEELECTION OF 1944 ALL PRECAST TREADS AND LANDING ELEMENTS SHILL BE FABRICATED TO SUIT FINAL SITE DIMENSIONS ENGLINES ARCHITECTURAL GAPS ARE MAINTAINED.

 PROR TO THE FABRICATION OF STARLA DETAILED SITE SURVEY SHALL BE UNDERTAKEN TO ESTABLISH THE EXACT DIMENSION BETHEEN SUPPORT WALLS AND FLOOR BEAME. THE STRUCTURAL STEEL LEMENTS SHALL THEN BE FABRICATED TO SUT THESE SITE DIMENSIONS. THE DETAILING OF THE COMBECTIONS OF THE PRECAST TREADS MUST ACCOMMEDATE THE DEVATIONS OF THE %S BUILT STRUCTURE WHICH WILL WARY AT EACH FLOOR. THE DESIGN AND DETAILING OF THE STARCASE SHALL ACCOMMODATE THE TOLERWICES MOVEMENTS AND DEFLECTIONS OF THE PRIMARY STRUCTURE.

10. ALL PRECAST FLIGHTS AND LANDINGS ARE TO BE POSITIVELY FIRED BACK TO THE PRIMARY STRUCTURE TO ANOLD ACCIDENTIAL COLLAPSE. MATERIALS THE FOLLOWING DELETERIOUS MATERIALS SHALL NOT BE EMPLOYED IN THE

> 2. WOOD HOOL SLARS IN PERMANENT FORM HORK TO CONCRETE OR N STRUCTURINE ELEMENTS. 1 ON OUN ON ORDE IN ALL ADMITURES FOR USE IN REINFORCED CONCRETE 4. ASBESTOS OR ASBESTOS CONTAINING PRODUCTS. LEAD, WHERE THE METAL OR ITS CORROSION PRODUCTS MKY BE DIRECTLY INSERTED. INHILED OR ABSORBED.

FORMULEHYDE IN QUANTITES HINCH MY BE HAZARDOUS OR AN PRITANT WITN REFERENCE TO THE LIMITS SET FROM TIME TO TIME BY THE HEALTH AND SAFETY EXECUTIVE. 7. POLYEOCYNURATE FOAM POLYURETHANE FORM OTHER THAN IN FURNITURE AND FURNESHING COMPRESING COMBUSTION MODIFIED HIGH RESISTANCE FORM, COMPLYING WITH THE FURNITURE AND FURNISHINGS (IRRE SAFETY) RESOLUTIONS 1988.

INITERALS WHICH ARE GENERALLY COMPRISED OF INNERAL FERES ETHER INNAMED ON INTERALLY DOCUMERING WHICH HAVE AN AUDIACE DWATTER OF 3 MICROINS OR LESS OF WHICH COMTAIN FIRST AND SALED OR OHIERWES STABLISED TO DISAUSE THAT FIRST MICROTION IS REQUENTED. 10. TROPICAL INARCHICODS OR OTHER HARDWOODS AND SOFTWOODS FROM NOALSI ST ANNELE STUDIES 11. CFCS OR HCFCS IN ANY FORM.

12. CALCUM SLICATE BRICKS OR TLES. 13. OROCIDOL/TE 14. READY MINED CONCRETE CONTRAINS AGGREGATES APT TO CAUSE MUNICIC CONCRETE:

AS A MINIMAM, METHOD STATEMENTS SHOULD BE PREPARED FOR THE FOLLOWING SITE ACTIVITIES. THIS LIST IS NOT EXHAUSTIVE. C DEMOLITION OF EXISTING STRUCTURES.

 EXCAVATION OF BASEMENT AREAS AND TEMPORARY WORKS SHOULD BE CONSIDERED WITH RESPECT TO METHOD AND SEQUENCE. MONITORING PROPOSALS OF THE SEES OF EXEMENT EXCAUNTIONS AND TO EXISTING ADJACENT BUILDINGS TO BE PROVIDED.

4. ERECTION OF THE CONCRETE STRUCTURE INCLUDING OUTLINE PROPOSALS TO EDMANDAY, DAVID BRODING AND BACK DRIVEDING SERVICENCE

6. TEMPORARY WORKS GENERALLY

 THE SUPPLIES SHALL PROVIDE FULL DESIGN CALCULATIONS AND WORKING DRAWINGS SHOWING ALL CUT CUTS, RECESSES, HOLES, ETC AND SHALL SUBMIT THESE TO THE ENVIRENCE FOR RAVIEW AT LEAST TO WORKING DAYS PROR TO COMMENCING MANAFACTURE. 9. ENSURE THAT THE HOLLOW CORES TO UNITS SUPPORTED ON THE INNER BLOCK LEAF OF A CAVITY WALL ARE UNFILED TO A DEPTH OF AT LEAST 153mm. GROUT TO BE CISSIO CONCRETE & Kimm AGGREGATE, FLOOR PLATE TO BE FULLY GROUTED BETWEEN PRECAST UNITS TO ENSURE FULL DARHBAGH ACTOR. MASCHRY - GENERAL 1. ALL BROCKHORK BELOW DPC LEVEL IS TO BE A MINIMUM COMPRESSIVE STRENGTH OF 27N/11117 AND MX0810.M WATER ABSORPTION OF 77N. ALL BLOCKHOPK BELOWOPC LEVEL IS TO BE DENSE SOLID BLOCK WITH NO VOIDS AND A MINIMUM COMPRESSIVE STRENGTH OF 7 JIN(m)¹

PRECAST CONCRETE FLOOR UNITS

1. THE APRANZEMENT OF FLOOR UNTS SHOWN ON CURTING ERAIINES ARE INTENDED TO BE INDEXTINE ONLY. THE FINEL APPAREEMENT AND SETTING OUT SHALL BE THE RESPONSIBILITY OF THE SUPPLIER.

2. FLOOR UNITS TO BE 1280 OR 680mm WEE X 200mm DEEP HOLLOW CORE BY BISON OR EQUINAL BYT LIND, FLOOR TO HAVE A MINIMUM FRE RXTING OF ONE HOLR.

3 THE UNITS ARE TO BE DESIGNED IN ACCORDANCE WITH BS 8110 1987 PART 1, SECTION 5

UNITS ARE TO BE DESIGNED FOR THE LOADINGS IDENTIFIED SPECIFIED ELSEWHERE ON CURTING DRAWINGS.

THE UNITS SHALL BE DESIGNED IN SUCH A MANNER AS TO PRECLIDE
DIFFERENTIAL CEFLICTION BETWEEN ADDOING UNITS (THE DIFFERENTIAL
CAMERY BETWEEN ADJUCEN FPANSS SIGULIONOT EVECED 1944), IN ADDITION
THE INVOLVEMENT ADJUCENT FPANSS SIGULIONOT EVECTION
THE INVOLVEMENT ADJUCENT FPANSS

LIMIT OVERALL TOTAL DEFLECTION + TO SIMPLY SUPPORTED CONTON + SPAN + 203. CARTLEVER COMMITION + SPAN + 123.

BUILDER WORK 4. ALL INCLES AND NOTICES REQUIRED TO ACCOMMONNE STRUCTURE, ETRAL ELIMANT AND THEIR CONNECTIONS AND OTHER AND THE TRANS. ERILLS ON SING POWNINGS THE INFORMATION SHALL BE COLLECTED THE SIN-CONTINUOUS THE REPORT OF A DATA SHALL BE COLLECTED THE SIN-CONTINUOUS REPORT OF AND AND THE SING RELIEVE OF AND THE SIN-CONTINUOUS REPORT OF AND AND THE SING RELIEVE OF AND THE SIN-CONTINUOUS REPORT OF AND AND THE MALE BE COLLECTIONED THE UNITARY THE REPORT OF AND AND THE MALE BEAMER.

7. UNITS TO BE ERECTED IN ACCORDINGS WITH MANUFACTURERS DATA SHEETS.

ADDREGATES - EXELAN ANET 12 RECARE INTO CATALS INCOMENTS ALL ADDREGATES TOBILS ACCORDINCE WITH CATALS INCOMENTIONS AND CODES LISTED BILDW.

EE EN 1043 AGDREARES FOR ETAMOUS BOTURES AND SUPPORT TREATMENTS FOR KOADE ARTISLES AND OTHER TRUTP CHECKBARIAS

ADVACT VALUES AND ADVACUABLE AND ADVACUABLE ADVACUABUADOUADOUADOUADOUADVACUABLE ADVACUAB

THE TOTAL AND/AT OF RECYCLED AND I OR SECONDARY ADDRESS TO BE ORIGITER THAN 2014 BY DECKY OR VOLUME OF THE TOTAL HIDE DRIVE ADDRESATE.

To CERTIBUTE 10 THE TOTAL ADDRESS THE RESEARCH OF HER ADDRESS TO THE ADDRESS T

WHEN THE TOTAL IN ACCORDING A THIN CONCRETE

(BY VARION T OF VOLUME). STRUCTURAL PRIME 205, MINISTRA

CONCRETE ROAD SUMM CER 21% MINIMUM PPE BECOMO NOS MINIMUM BULDING POJACATIONE 21% MINIMUM

OWNELANTYLE AND DRYTNIG (DEE COMPLANCE NOTEE IN EMILIAN TECHNOL QUICE, ITS, OWNEL LANDSCHMIG TEST, MINISTRE THE ADDREAMERMUST MEET ONE OF THE FOLLOWING REQUIREMENTS

THE BOUNCE RUL BE PROOFNELY PROFEDENTIALTING, DEBULTING ADDRESSANTING INVESTIG & E.J.: THE INCLUDES HOLE FUNDAMEND OF SECONDARY ADDRESSANTING PROMINGE CONSTRUCTOR FOR CONSUMER OF PERFORMATION, EV PROVIDE DESIGNATION CONFUNCTIONS FOR THE PROVIDE INSERVE TO CONSUMER OF PERFORMANCE ADDRESSANTING CONFUNCTIONS FOR THE PROVIDE INSERVE TO CONSUMER OF PERFORMANCE ADDRESSANTING CONFUNCTIONS FOR THE PERFORMANCE ADDRESSANTING. ADDRESSANTING

ALL SUPPLIERS TO PROVIDE DOCUMENTATION COMPREND THE BOURCE OF RECYCLED-SECONDARY ADDRESATES AND PROP THAT THE BINALS RECYCLED I SECONDARY ADDRESATES AN INTE SAME ACHIERD.

FLOOR BLARS INCLUDING OPDING FLOOR BLARS 211 MINIMUM BETURIN OF HYDRALLICALLY BOUND BRIEF, BIOLIER AND SURFACE COURSES FOR PARTY AND AREAS FOR PARTY INSTALL.

 ALL MORTAR BELOW DPC LEVEL IS TO BE 13 CEMENT: SAND (SRADE 2) NO ADDITIVES WILL BE PERMITTED WITHOUT THE PROR WRITTEN CONSENT OF THE DISJAMER. ALL BROWDRK ABOVE DPCLEVEL IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 27 ZMmm² AND A MINIMUM ABSORPTION NATE OF 125. 5. ALL BLOCKWORK ABOVE DPC LEVEL IS TO HAVE A MINIMUM COMPRESSIVE STRENGTH OF 7, WHITE

6. CAVITY HALL TIES TO HAVE A MINIMUM EMBEDMENT OF SOME INTO MORTAR JOINT IN EACH LEAF, WITH MINIMUM THE LEMETH AS PER TABLE 6 05 3520 PART ALL MORTAR ABOVE OF CLEVEL FOR BLOCKWORK IS TO BE 11:6 CEMENT LIME SAND NO ADDITIVES WILL BE PERMITTED WITHOUT THE PRIOR WRITINI COMMENT OF THE EMGINEER.

8. ALL WALL THIS TO BE STANLESS STEEL AND SHALL BE IN ACCORDANCE WITH BS 1043 OR MEET WITH THE REQUIREMENTS OF DD140 PART 2. WHLI TES TO BE AT 450mm VERTICAL AND 900mm HORIZOATAL CENTRES. AROUND OPDINIES AND VERTICAL UNACIMATED OR RETURNED EDGES TES SINUL DE PROVIDED AT 225mm/VERTICAL CENTRES AND WITHIN 225mm OF THE EDGE.

12. NO INDIVIDUAL BLOCK WEIGHT SHALL EXCEED 2010 BLOCKHORN LIFT SHAFT WALLS WHERE PRESENT TO BE CONSTRUCTED N 295mm THOCK RUDOWOORK AND TO HAVE A MINIMUM COMPRESSIVE STREAM OF TOWIN' AND REINFORCED WITH BRC BECKFORCE BRASHITS (EASImm VERTICAL CONTRELS.

2. UNLESS NOTED OTHERWISE PROVIDE SS ANCON INSONRY HEAD RESTRAINT INFV TES AT MAXMAM SOme OS (IN PEPPENE) TO HEAD OF ALL INTERNAL MACHINE MALE, ENGLIE MINIMA I FILL COURSE OF BLOCKWORK BELOW HEAD RESTRAIT. 13. ALL TES FINED TO STEELWORK TO BE ELECTRONICALLY ISOLATED USING NEOPREME ISOLATION SLEVIES. TIES TO BE FINED TO STEELINGRU USING BYLTLOR AD L-TABONG STREMS TO THE MAN BLATTINGPS SECTOR TO A STREME STREME STREME TO THE MAN BLATTINGPS SECTOR.

14 BETER TO ARCHITECTS DRAWINGS FOR NOVEMENT JOINT LOCATIONS. MAXIMUM SPACING OF MOVIENT JOINTS IN BLOCKACORY TO BE 3 > THE PARK HEIRING, OR JOY AS WIRES SPACE FIRCH THE CORPORE, BUCKMENT JOINTS TO TAKE THE FORM OF SLIP THES TO A TERMATINE BID JOINTS IN MIN Imm. USP FILLED WITH COMPRESSIE MARTIN.

IS MINING FILLS INFOCUSED SECTION OF MAGNEY TO BE 0.04%, INFERE THIS CANNOT BE ACHEVED DUE TO OPENING SETTING OUT, ALLOHINGE TO BE INVECTOR ACHEVED DUE TO OPENING SETTING OUT, ALLOHINGE TO BE INVECTOR ACHEVEN. 8. ALLOWANCE TO BE MADE FOR LINTELS ACROSS OPENINGS IN MASCARY, LINTEL SPECIFICATION TO BE CHECKED BY ARCHITECT / COMTRACTOR ACAMBIT THE FRE (PROTECTION REQUIREMENTS AND ACCITION FIRE PROTECTION ALLOWED FOR CHECKEN ACESARY.

17. INTERNAL WALLS ARE NOT DESIGNED FOR EXTERNAL WHO LOADS AND SHOULD BE PROPPED DURING CONSTRUCTION IF TEMPORARLY EXPOSED TO WINDLOADING.

12. WIND POSTS SHOLLOBE PROVIDED TO MASONRY WALLS AT REGULAR CENTRES, ALL WIND POSTS TO HAVE VERTICALLY SLOTTED CONNECTIONS TO ALLOW FOR 25mm FREE VERTICAL MOVEMENT OF MEMBER ABOVE.

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For further enquiries, please contact:



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