

METHOD STATEMENT FOR DEMOLITION WORK:

1. GENERAL

- 1.1 DEMOLITION WORKS SHALL COMPLY WITH BUILDING (DEMOLITION WORKS) REGULATIONS, BS6187/82, CONSTRUCTION SITE (SAFETY) REGULATIONS, THE GUIDELINES AND REQUIREMENTS SET OUT IN PNAPP1 AND CODE OF PRACTICE FOR DEMOLITION OF BUILDINGS 2004.
- 1.2 ALL STRUCTURES TO BE DEMOLISHED BY ORDINARY HAND-HELD TOOLS.
- 1.3 POWERED MECHANICAL PLANTS MAY BE EMPLOYED AND RESTED AT SOLID GROUND TO HELP REMOVAL OF DEBRIS AT GF.
- 1.4 DEMOLITION SHALL BEGIN ON THE ROOF AND PROCEED DOWN FLOOR BY FLOOR TO THE GROUND FLOOR. THE CONCRETE OF EACH STRUCTURAL ELEMENT SHALL BE BROKEN DOWN GRADUALLY. THE REINFORCEMENT SHALL BE LEFT IN PLACE UNTIL THE CONCRETE IS BROKEN AWAY AND WHEN ITS SUPPORT IS NO LONGER NEEDED.
- 1.5 THE DEMOLITION OF EACH STRUCTURAL ELEMENT SHALL BE PERFORMED ACCORDING TO THE DETAILS AS SHOWN ON DEMOLITION PLANS.
- 1.6 BEFORE DEMOLITION WORKS, THE PROPPING UNDERNEATH CANTILEVER BEAMS IF ANY SHALL BE INSTALLED.
- 1.7 BEFORE DEMOLITION WORKS, ALL UNAUTHORIZED STRUCTURES SHALL BE REMOVED.
- 1.8 THE CONTRACTOR SHOULD VERIFY THE STRUCTURE WITH THE LATEST STRUCTURE APPROVED PLANS (INCLUDING AKA WORKS) BEFORE COMMENCEMENT OF THE DEMOLITION WORKS. WHERE CONDITIONS ON SITE REVEALED SITUATION AND ARRANGEMENT DIFFERENT FROM THE AVAILABLE INFORMATION, OR HAVING ANY POTENTIAL INSTABILITY, THE CONTRACTORS SHOULD SEEK OPINION AND ADVICE FROM AP/RSE BEFORE PROCEED.
- 1.9 GROUND FLOOR SLAB TO BE RETAINED.
- 1.10 ALL SCAFFOLDING WORKS SHOULD STRICTLY FOLLOW THE GUIDANCE NOTES OF CODE OF PRACTICE FOR BAMBOO SCAFFOLDING SAFETY AND GUIDANCE NOTES TO RENOVATION SAFETY ISSUED BY LABOUR DEPARTMENT.

2. DEMOLITION SEQUENCE (TOP DOWN - BY MANUAL METHOD)

- 2.1 DEMOLITION SEQUENCE SHALL BE DETERMINED ACCORDING TO THE ACTUAL SITE CONDITIONS, RESTRAINTS, ORIGINAL BUILDING LAYOUT AND ITS CONSTRUCTION. IN GENERAL, THE FOLLOWING SEQUENCE SHALL APPLY:
 - (i) ALL CANTILEVERED STRUCTURE CANOPIES, AND VERANDAHs SHALL FIRST BE DEMOLISHED PRIOR TO THE DEMOLITION OF MAIN BUILDING AND ITS INTERNAL STRUCTURES ON EACH FLOOR.
 - (ii) THE STRUCTURAL ELEMENTS, IN GENERAL, SHALL BE DEMOLISHED IN THE FOLLOWING SEQUENCE:
 - SLAB
 - SECONDARY BEAMS, THEN
 - INTERNAL PRIMARY BEAMS
 - (iii) ALL DEMOLITION WORKS TO BE CARRIED OUT FLOOR BY FLOOR.
 - (iv) THE PERIPHERAL ELEMENT OF THE BUILDING SHALL BE DEMOLISHED IN ACCORDANCE WITH THE DEMOLITION SEQUENCE OF PERIPHERAL ELEMENTS.
 - (v) THE INTERNAL ELEMENT, INCLUDING BEAMS AND COLUMNS SHALL BE DEMOLISHED BY GRADUALLY BREAKING DOWN THE CONCRETE OR BY PULLING THEM DOWN IN A CONTROLLED MANNER.
 - (vi) THE ABOVE PROCEDURES SHALL BE REPEATED (IF NECESSARY) FOR DEMOLITION DOWN TO THE LOWEST FLOOR AT GROUND LEVEL.
- 3. PRIOR TO COMMENCEMENT OF THE DEMOLITION WORK AN ASBESTOS INVESTIGATION SURVEY SHALL BE CARRIED OUT BY A SPECIALIST ASBESTOS CONSULTANT FIRM TO DETERMINE ANY ASBESTOS BASED PRODUCTS WHICH MAY EXIST.

DEMOLITION SEQUENCE:

- 1. REMOVE THE UBW WORKS UNDER MINOR WORKS IF APPLICABLE.
- 2. PRIOR TO THE DEMOLITION WORKS, THE HOARDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE HOARDING PLANS UNDER SEPARATE SUBMISSION.
- 3. THE TWO-STORIES PROPPING SHOULD BE PROVIDED PRIOR TO START OF DEMOLITION WORK.
- 4. REMOVE ALL UBW STRUCTURES.
- 5. DEMOLITION SEQUENCE OF ROOF FLOOR:
 - a. PARAPETS, STAIRHOOD AND OTHER STRUCTURES ABOVE ROOF FLOOR LEVEL;
 - b. EXTERIOR WALLS LINKING THE CANTILEVERED STRUCTURE AT ROOF FLOOR;
 - c. CANTILEVER SLABS OR CANOPY AT ROOF FLOOR;
 - d. REMAINING SLAB AT ROOF FLOOR;
 - e. NON-LOAD BEARING WALLS BETWEEN ROOF AND FLOOR BELOW ROOF FLOOR;
 - f. SECONDARY BEAMS AT ROOF FLOOR;
 - g. MAIN BEAMS AT ROOF FLOOR;
 - h. COLUMNS AND LOAD BEARING WALLS BETWEEN ROOF AND FLOOR BELOW ROOF.
- 6. DEMOLITION OF SUBSEQUENT FLOORS BELOW ROOF FLOOR:
 - a. PARAPETS, STAIRHOOD AND OTHER STRUCTURES ABOVE FLOOR LEVEL IF APPLICABLE;
 - b. EXTERIOR WALLS LINKING THE CANTILEVERED STRUCTURES IF APPLICABLE;
 - c. CANTILEVERED SLABS OR CANOPY;
 - d. REMAINING SLABS;
 - e. NON-LOAD BEARING WALLS BETWEEN THE FLOOR AND THE FLOOR BELOW;
 - f. SECONDARY BEAMS;
 - g. MAIN BEAMS;
 - h. COLUMNS AND LOAD BEARING WALLS BETWEEN THE FLOOR AND THE FLOOR BELOW.

DEMOLITION SEQUENCE OF UBW STRUCTURES:

- 1. THE DEMOLITION OF UBW STRUCTURES SHALL BE CARRIED OUT BY HAND HELD TOOLS IN THE FOLLOWING SEQUENCE:
 - a. REMOVE STEEL SHEET COVER IN STRIP OF NOT MORE THAN 1m WIDE.
 - b. REMOVE THE STEEL BEAMS BY CUTTING AT TWO ENDS AND LIFTING. THE STEEL BEAMS SHALL BE SAFETY TIED BEFORE CUTTING.
 - c. REMOVE THE RC WALL IN HORIZONTAL STRIP OF NOT MORE THAN 500mm HEIGHT FROM TOP TO BOTTOM.

DEMOLITION OF CANTILEVER STRUCTURE:

- 1. PROPPINGS SHALL BE INSTALLED FOR ALL CANTILEVERED STRUCTURES PRIOR TO COMMENCEMENT OF DEMOLITION WORKS.
- 2. NO STRUCTURAL MEMBER WITHIN THE BUILDING ON ABOVE THAT FLOOR CAN BE DEMOLISHED PRIOR TO THE DEMOLITION OF THE CANTILEVER STRUCTURE AT THAT FLOOR.
- 3. THE EXTERIOR WALL CONNECTED SHALL BE DEMOLISHED FIRST WITH THE CANTILEVER SLAB.
- 4. ANY STRUCTURE OR DEAD LOAD SUPPORTED BY THE CANTILEVERED SYSTEM SHALL BE REMOVED PRIOR TO DEMOLISHING THE CANTILEVER SLAB.
- 5. THE CONCRETE SHALL BE BROKEN DOWN GRADUALLY STARTING FROM THE EXTERIOR EDGE OF THE CANTILEVER FLOOR, WORKING INWARD AND TOWARD ITS SUPPORTING BEAMS.

DEMOLITION OF BRICK IN-FILL WALL:

TO AVOID ANY POTENTIAL HAZARD OF BRICKS FALLING OUT OF THE BUILDING, ALL THE BRICK IN-FILL SHALL BE REMOVED BY PUSHING INWARD, BEFORE DISMANTLING THE REINFORCED CONCRETE FRAMING. WORKING PLATFORMS OUTSIDE THE BUILDING SHALL BE USED FOR REMOVAL OF THE BRICK IN-FILL WALLS. BRICK REMOVAL SHALL BEGIN FROM THE TOP LAYER DOWNWARDS. THE WORKS SHALL BE CARRIED OUT LAYER BY LAYER WITH EACH LAYER NOT LARGER THAN 300mm.

PRECAUTIONARY MEASURES:

- 1. HOARDING (SUBMITTED SEPARATELY)
 - THE HOARDING SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE HOARDING PLANS UNDER SEPARATE SUBMISSION.
- 2. TEMPORARY SUPPORT
 - STEEL PROPPING SHALL HAVE A WORKING CAPACITY OF 25kN PER PROP. THE PROPS SHALL BE BRACED WITH LATERAL RESTRAINTS IN AT LEAST TWO DIRECTIONS.
- 3. EXISTING UTILITIES
 - ALL EXISTING UTILITIES SHALL BE TERMINATED. SEWER SERVICE AND DRAINAGE CONNECTIONS SHALL BE PROPERLY DISCONNECTED AND SEALED OFF AT LAST MANHOLE. CONTRACTOR SHALL ASSIST THE CLIENT TO COORDINATE WITH UTILITY COMPANIES FOR ALL SERVICE TERMINATION.
- 4. NOTIFICATION TO AP/RSE FOR ANOMALIES OR IRREGULARITIES OBSERVED
 - 4.1 THE FRAMING PLANS ARE RECORDED ON SITE. PRIOR TO THE DEMOLITION WORK, THE CONTRACTOR SHOULD CARRY OUT A DETAILED INSPECTION TO VERIFY THE ACCURACY OF THE INFORMATION AS SHOWN. WHERE CONDITIONS ON SITE REVEALED SITUATION AND ARRANGEMENT DIFFERENT FROM NORMAL OR HAVING ANY POTENTIAL HAZARDS, THE CONTRACTOR SHOULD SEEK OPINION AND ADVICE OF AP/RSE BEFORE PROCEEDING FURTHER.
 - 4.2 THE CONTRACTOR SHOULD EXAMINE AND IDENTIFY FOR THEMSELVES OF THE NATURE OR TAIL-LOADING OF ANY CANTILEVER CONSTRUCTION SUCH AS BALCONIES, HEAVY CORNICES OR STAIRCASES. IF UNCERTAIN, AP/RSE ADVICE SHOULD BE SOUGHT. GENERALLY, ALL CANTILEVER CONSTRUCTION SHOULD BE PROPPED PRIOR TO THE ACTUAL DEMOLITION.
 - 4.3 THE CONTRACTOR SHOULD NOTIFY THE AP/RSE DURING THE COURSE OF DEMOLITION WORKS, THE FOLLOWING DEFECTS, IF ANY
 - (i) STRUCTURAL DEFORMATION;
 - (ii) CRACK; AND
 - (iii) CORROSION OF REINFORCEMENT

5. DEBRIS HANDLING

- 5.1 ANY EXISTING FURNITURE, WOOD FLOORS, DOOR FRAMES, WINDOWS, PIPING SHALL BE SORTED AND REMOVED SEPARATELY.
- 5.2 DEMOLITION DEBRIS SHALL BE PICKED UP ON GROUND FLOOR AND CARRIED AWAY BY DUMP TRUCKS. DEBRIS CLEARING AND TRANSPORTATION SHALL BE SCHEDULED TO MAINTAIN THE FOLLOWING CONDITIONS:
 - (i) DEBRIS ACCUMULATION ON THE COCKLOFT OR FIRST FLOOR OR ABOVE SHALL NOT BE HIGHER THAN 100mm.
 - (ii) DEBRIS ACCUMULATION ON THE GROUND FLOOR SHALL NOT EXCEED 1m.
 - (iii) NO DEBRIS SHALL BE ALLOWED TO ACCUMULATE ON THE CANTILEVER STRUCTURES.

6. SPECIAL SITE SAFETY

6.1 EMERGENCY EXIT

THE EXISTING STAIRCASE SHALL BE USED AS EMERGENCY ROUTE. THE EMERGENCY ROUTE SHALL BE MAINTAINED THROUGHOUT THE DEMOLITION PROCESS. THE ROUTE SHALL BE CLEARED OF OBSTRUCTION AT ALL TIME. SIGNS OR MARKINGS SHALL BE INSTALLED TO CLEARLY IDENTIFY THE ROUTE.

6.2 PROTECTION OF OPENINGS

THE CONTRACTOR SHOULD ENSURE THAT EVERY WORK PLACE AND APPROACH AND ALL OPENINGS DANGEROUS TO PERSONS EMPLOYED AND OTHERS BE PROPERLY ILLUMINATED AND PROTECTED. SATISFACTORY MEASURES SHALL BE PROVIDED TO AVOID PERSONS FALLING FROM HEIGHT.

6.3 FIRE PREVENTION

(i) FIRE EXTINGUISHER OR FIRE FIGHTING EQUIPMENT SHALL BE PLACED IN VISIBLE LOCATIONS, ADJACENT TO THE STAIRCASE, ON EACH FLOOR. ALL FLAMMABLE MATERIALS SHALL BE STORED IN A SAFE LOCATION IN ACCORDANCE WITH THE FACTORIES AND INDUSTRIAL UNDERTAKING REGULATIONS.

6.4 DUST AND NOISE

(i) WATER SPRAYING SHALL BE APPLIED TO SUPPRESS THE DUST GENERATED DURING THE DEMOLITION OPERATION AND DEBRIS HAULING.

(ii) SUPER SILENCED TYPE AIR COMPRESSOR SHALL BE USED. DEMOLITION WORKS SHALL NOT BE PERFORMED WITHIN THE RESTRICTED HOURS FROM 1800 HRS TO 0700 HRS ON ALL DAY AND FROM 0700 HRS TO 1900 HRS ON GENERAL HOLIDAYS INCLUDING SUNDAY, OR AS PER EPD'S REQUIREMENT.

6.5 TRAINING

ALL SITE PERSONNEL SHALL GO THROUGH A TRAINING PROGRAM TO UNDERSTAND THE PROJECT AND SITE SAFETY REQUIREMENTS. THE TRAINING PROGRAM SHALL BE CONDUCTED BY A COMPETENT TRAINER. THE TRAINING PROGRAM SHALL INCLUDE THE FOLLOWING:

- (i) AN INDUCTION TRAINING COURSE AT THE BEGINNING OF THE JOB TO CIRCULATE INFORMATION ON THE PROPOSED METHOD AND REQUIRED SAFETY MEASURES TO PERFORM THE WORK.
- (ii) DAILY SAFETY MEETINGS TO MAINTAIN AND REINFORCE THE SAFETY CONCEPT.

6.6 TYPHOON

IN THE CASE WHEN TYPHOON SIGNAL NO. 3 IS HOISTED, THE CONTRACTOR SHALL INSPECT ALL EXTERNALLY EXPOSED TEMPORARY WORK AND STRENGTHEN ANY LOOSE CONNECTIONS. AFTER THE TYPHOON, ALL EXTERNALLY EXPOSED TEMPORARY WORKS SHALL BE INSPECTED AND CONFIRMED TO BE SAFE BY THE PERSON.

7. MAINTENANCE AND INSPECTION

7.1 THE DEMOLITION WORKS SHALL BE SUPERVISED BY AUTHORIZED PERSON, REGISTERED STRUCTURAL ENGINEER, REGISTERED SPECIALIST CONTRACTOR AND THEIR TECHNICALLY COMPETENT PERSON IN ACCORDANCE WITH THE SITE SAFETY SUPERVISION PLAN LOGGED WITH BUILDING AUTHORITY.

7.2 ALL THE PRECAUTIONARY MEASURES AND TEMPORARY SUPPORTS SHALL BE INSPECTED BY THE CONTRACTOR ON A DAILY BASIS. ANY ACCUMULATION OF BUILDING DEBRIS ON THE CATCH FANS AND CATCH PLATFORMS SHALL BE REMOVED. ANY DEFICIENCY SHALL BE REPAIRED WHEN FOUND NECESSARY. THE INSPECTION AND REPAIR RECORDS SHALL BE PROVIDED TO THE AP AND RSE.

7.3 BEFORE LEAVING THE JOB SITE EACH DAY, THE CONTRACTOR SHALL IDENTIFY AND RECTIFY ANY UNSAFE CONDITIONS SUCH AS PARTIALLY DEMOLISHED STRUCTURAL ELEMENTS AND DAMAGED TEMPORARY SUPPORTS.

7.4 THE BAMBOO SCAFFOLDINGS SHALL BE INSPECTED AND MAINTAINED IN ACCORDANCE WITH THE CODE OF PRACTICE FOR BAMBOO SAFETY AND THE CONSTRUCTION SITE (SAFETY) REGULATIONS BY THE CONTRACTOR.

8. EMERGENCY PLAN

8.1 EMERGENCY TELEPHONE NUMBERS SHALL BE CLEARLY DISPLAYED IN A CONSPICUOUS LOCATION. IN THE EVENT OF ANY EMERGENCY OR ACCIDENT, THE CONTRACTOR SHALL NOTIFY THE POLICE AND FIRE SERVICES DEPARTMENTS FOR ASSISTANCE. THE CONTRACTOR SHALL ALSO NOTIFY THE AP AND RSE IMMEDIATELY.

8.2 AT THE INITIAL WARNING OF A TYPHOON OR A MAJOR STORM EVENT, THE FOLLOWING SHALL BE ADVISED:

- 8.2.1 CONTRACTOR SHALL SECURE ALL TEMPORARY SUPPORTS AND LOOSE ELEMENTS ON SITE.
- 8.2.2 ALL FLAMMABLE MATERIALS, OXYGEN AND ACETYLENE BOTTLES SHALL BE REMOVED OR SECURED IN A SAFE LOCATION.
- 8.2.3 NO UNSTABLE AND/OR PARTIALLY DEMOLISHED STRUCTURAL ELEMENTS SHALL BE BRACED AND SECURED.

9. POST DEMOLITION

- 9.1 UPON COMPLETION OF THE DEMOLITION, THE SITE SHALL BE LEVELLED AND CLEARED OF DEBRIS.
- 9.2 IN THE CASE OF NO IMMEDIATE REDEVELOPMENT, THE SITE BOUNDARY SHALL BE COMPLETELY ENCLOSED TO PREVENT PUBLIC ACCESS.
- 9.3 DAMAGE TO PAVEMENT, FOOTPATH AND OTHER ELEMENTS WITHIN THE RIGHT OF WAY SHALL BE REPAIRED TO ITS ORIGINAL CONDITION PRIOR TO THE COMPLETION OF THE DEMOLITION PROJECT.
- 10. SITE SUPERVISION
 - 10.1 SITE STAFF RESPONSIBLE FOR SUPERVISION AND CONTROL OF DEMOLITION SHALL BE EXPERIENCED IN THE DEMOLITION OF BUILDINGS SIMILAR TO THOSE TO BE DEMOLISHED.
 - 10.2 THE CONTRACTOR SHALL PROVIDE THE FOLLOWING MINIMUM SITE SUPERVISION REQUIREMENTS:
 - (i) A FULL-TIME SITE ENGINEER WHO SHALL BE REGISTERED PROFESSIONAL ENGINEER, IN THE STRUCTURAL, CIVIL OR BUILDING DISCIPLINE AND SHALL BE DIRECTLY RESPONSIBLE TO THE CONTRACTOR DURING DEMOLITION OF CANTILEVER STRUCTURES.
 - (ii) EXPERIENCED FOREMAN WHO SHALL BE FULL-TIME ON SITE. EACH FOREMAN SHALL BE RESPONSIBLE AND SUPERVISE THE DEMOLITION WORKS FOR EACH ZONE OF THE DEMOLITION WORKS.
 - (iii) SITE SUPERVISION REQUIREMENTS AS STIPULATED IN THE LATEST VERSION OF THE DEMOLITION CODE AND BUILDING (DEMOLITION WORKS) REGULATION.

NOTES ON UBW:

- 1. UBW SHALL BE REMOVED UNDER MINOR WORKS CONTROL SYSTEM OR UNDER AP / RSE SUPERVISION UPON ISSUANCE OF THE DEMOLITION CONSENT AS INDICATED ON PLANS.

NOTES ON DEBRIS MANAGEMENT SYSTEM:

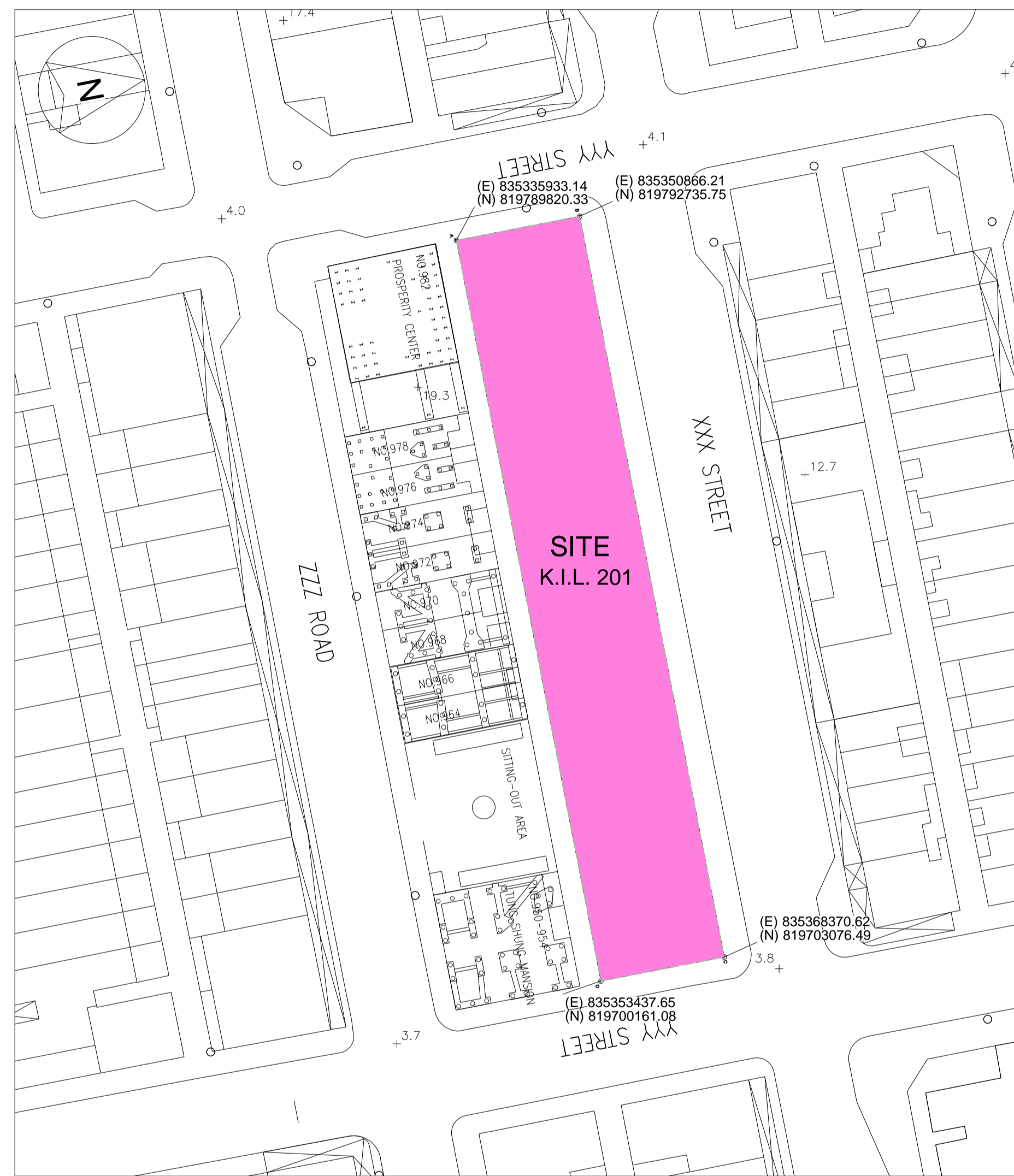
- 1. DEBRIS MUST BE DISPOSED OF PROMPTLY. A DEBRIS DISPOSAL AND MANAGEMENT SYSTEM SHALL BE PREPARED AND IMPLEMENTED BY THE RSC TO THE SATISFACTION OF AP / RSE. THE DEBRIS DISPOSAL AND MANAGEMENT SYSTEM SHOULD LAY DOWN THE FOLLOWING DETAILS:
 - 1.1 METHOD OF HANDLING DEMOLISHED BUILDING DEBRIS;
 - 1.2 THE ROUTING AND MOVEMENT OF DEBRIS FROM EACH FLOOR TO ON GRADE HOLDING AREA PRIOR TO LEAVING THE SITE;
 - 1.3 MEANS OF TRANSPORTATION OF DEBRIS OFF THE SITE;
 - 1.4 TIME AND FREQUENCY OF DEBRIS DISPOSAL OFF SITE;
 - 1.5 RECORD SCHEME ON THE TONNAGE OF EACH TRUCK LOAD, TRUCK LICENSE PLATE, DRIVER'S NAME, TRIP TICKETS AND LOCATION OF DUMP SITE; AND
 - 1.6 THE SITE SUPERVISORY PERSONNEL RESPONSIBLE FOR THE DEBRIS MANAGEMENT SYSTEM.
- 2. DETAILS OF THE DEBRIS DISPOSAL AND MANAGEMENT SYSTEM SHALL BE SUBMITTED TO THE BUILDINGS DEPARTMENT TOGETHER WITH THE SITE SAFETY SUPERVISION PLAN PRIOR TO OR AT THE TIME OF CONSENT APPLICATION.

NOTES ON SITE VIDEO CAMERA:

- 1. VIDEO CAMERA TO RECORD THE ENTIRE DEMOLITION PROCESS SHALL BE PROVIDED. THE VIDEO CAMERA SHALL BE SECURELY PROTECTED FROM BEING TEMPERED WITH SO THAT THE ENTIRE DEMOLITION PROCESS INCLUDING THE MOVEMENT OF DEBRIS AND THE OVERALL SEQUENCE OF DEMOLITION CAN BE RECORDED FOR REFERENCE AND REVIEW PURPOSES. THE LOCATION OF THE VIDEO CAMERA REFERS TO DEMOLITION PLAN. THE VIDEO CAMERA RECORDS SHALL BE KEPT BY THE RSE FOR AT LEAST 14 DAYS.

NOTES ON BEAM PLUS:

- 1. DEMOLITION WORKS AND RELEVANT ADMINISTRATIVE PROCEDURES WILL COMPLY WITH THE BUILDING ENVIRONMENTAL ASSESSMENT METHOD (BEAM) PLUS V1.2 REQUIREMENT.



BLOCK PLAN
1:500

BD REF :

BIM REF :

REV DATE AMENDMENT

PROJECT
CIC SAMPLE PROJECT

DRAWING TITLE
GENERAL NOTES FOR DEMOLITION

SCALE AS SHOWN@A1

DRAWING NO. REV. NO.

D001

SOURCE ---

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for COMPANY LOGO

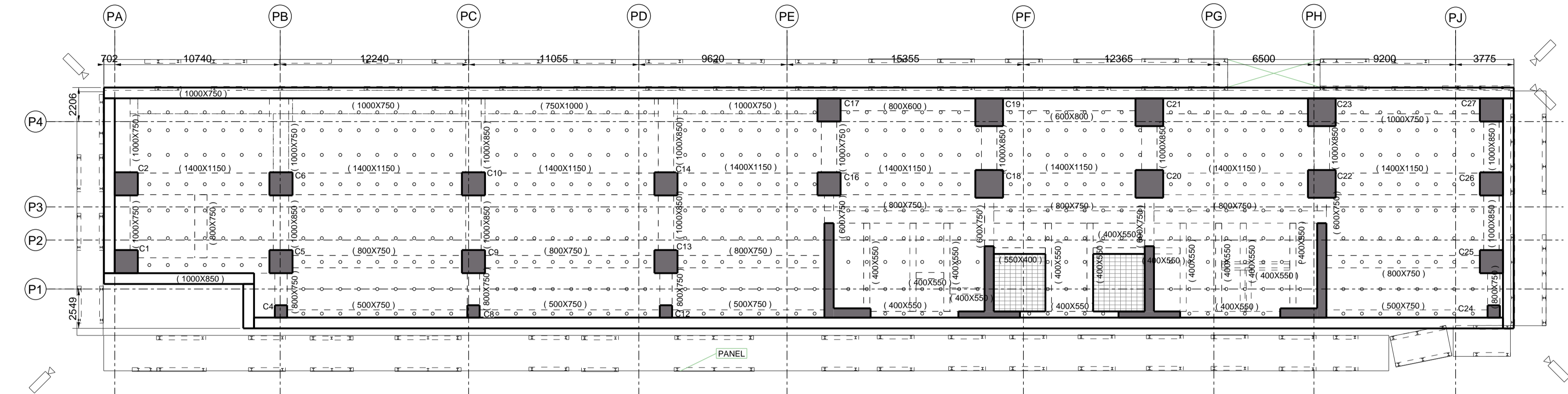
90mm (W) x 60mm (H) space
for AP/RSE/RGE's
signature/ and stamp chop

BD's OFFICIAL USE

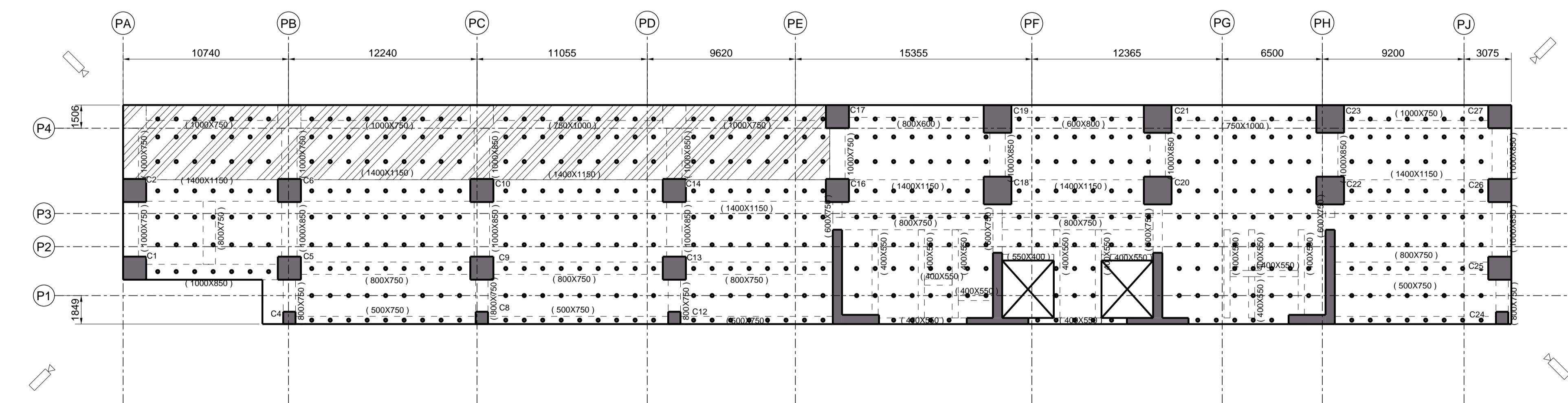
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certification of copies of
approved plans
(PNAP ADM-10 APP A)

LEGEND

- TEMPORARY STEEL PROP AT 1200mm c/c UNDER
- ▨ PROPOSED DEBRIS CHUTE
- ▨ CANTILEVER STRUCTURE
- - - SITE BOUNDARY
- ⊠ CONCRETE FOOTING
- VIDEO CAMERA



DEMOLITION PLAN - EXISTING G/F FRAMING PLAN



DEMOLITION PLAN - EXISTING 1/F FRAMING PLAN

BD REF :

BIM REF :

REV DATE AMENDMENT

PROJECT
CIC SAMPLE PROJECT

DRAWING TITLE
DEMOLITION PLAN EXISTING G/F

SCALE AS SHOWN@A1

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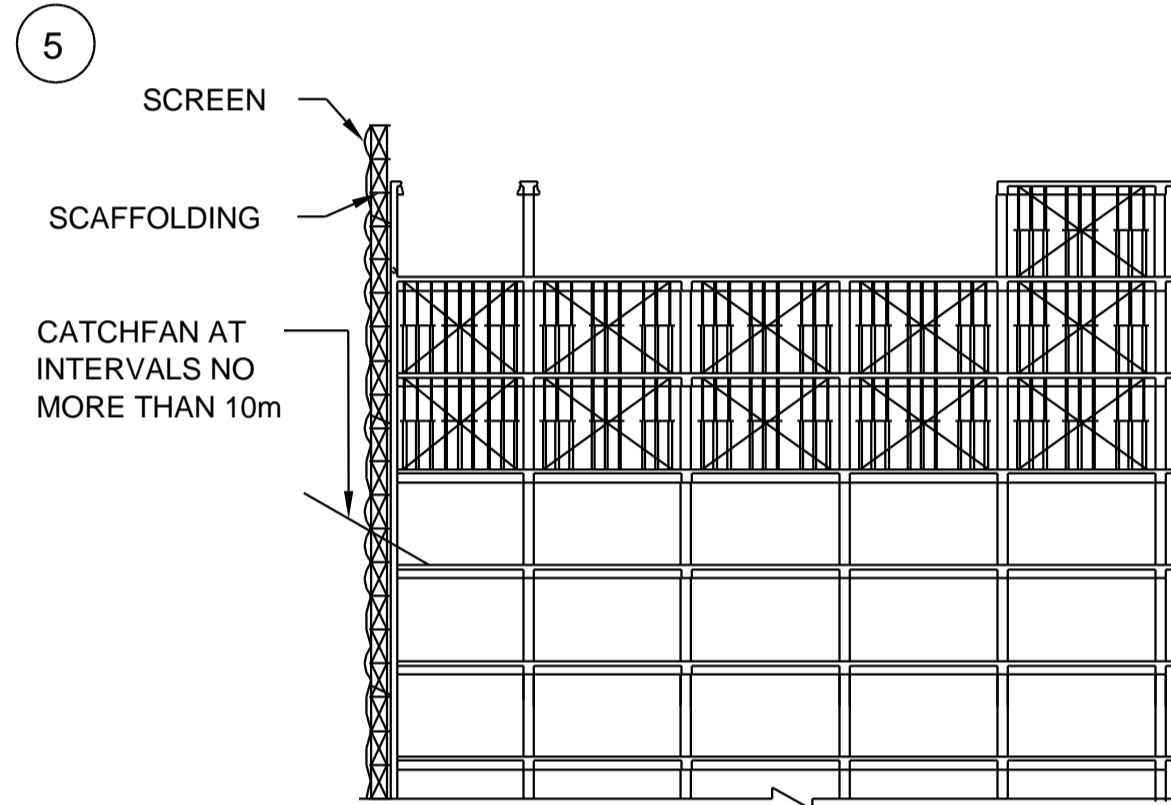
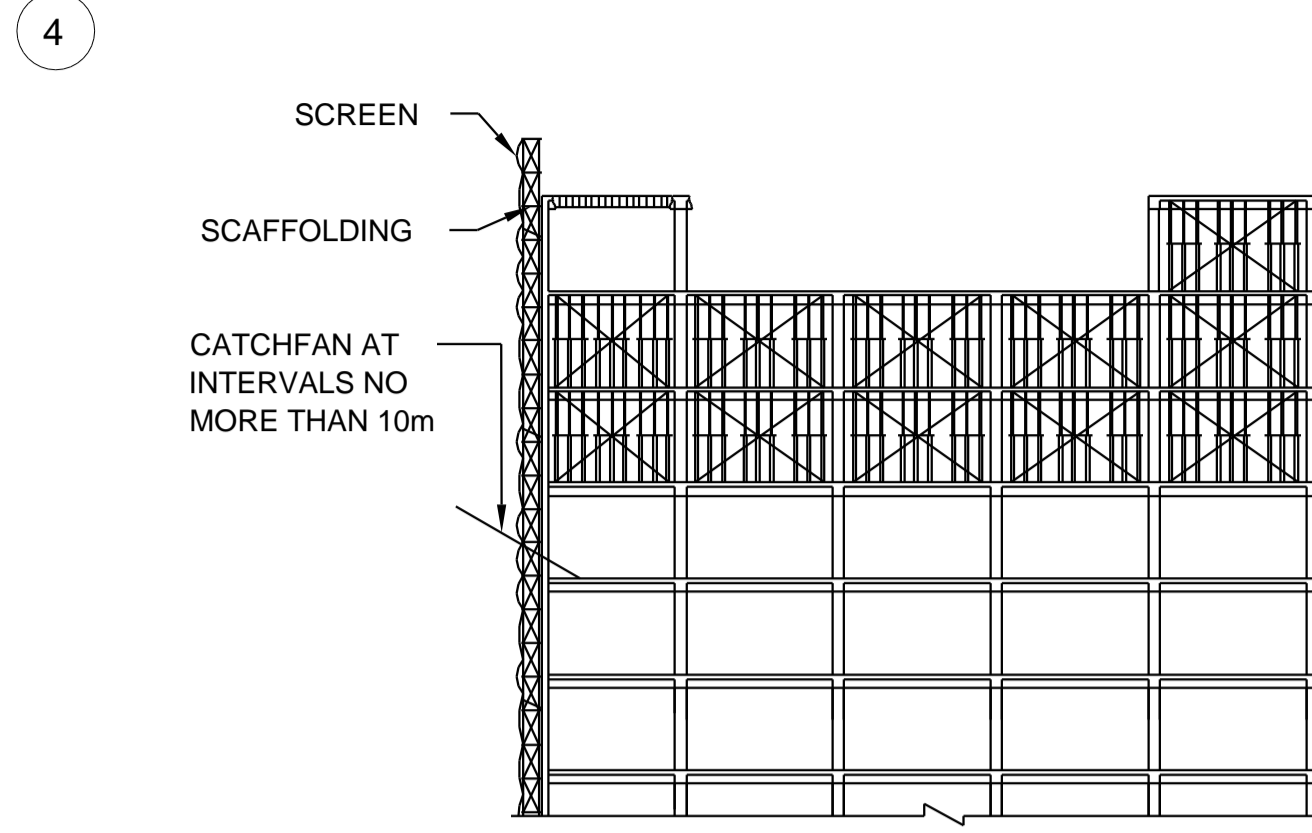
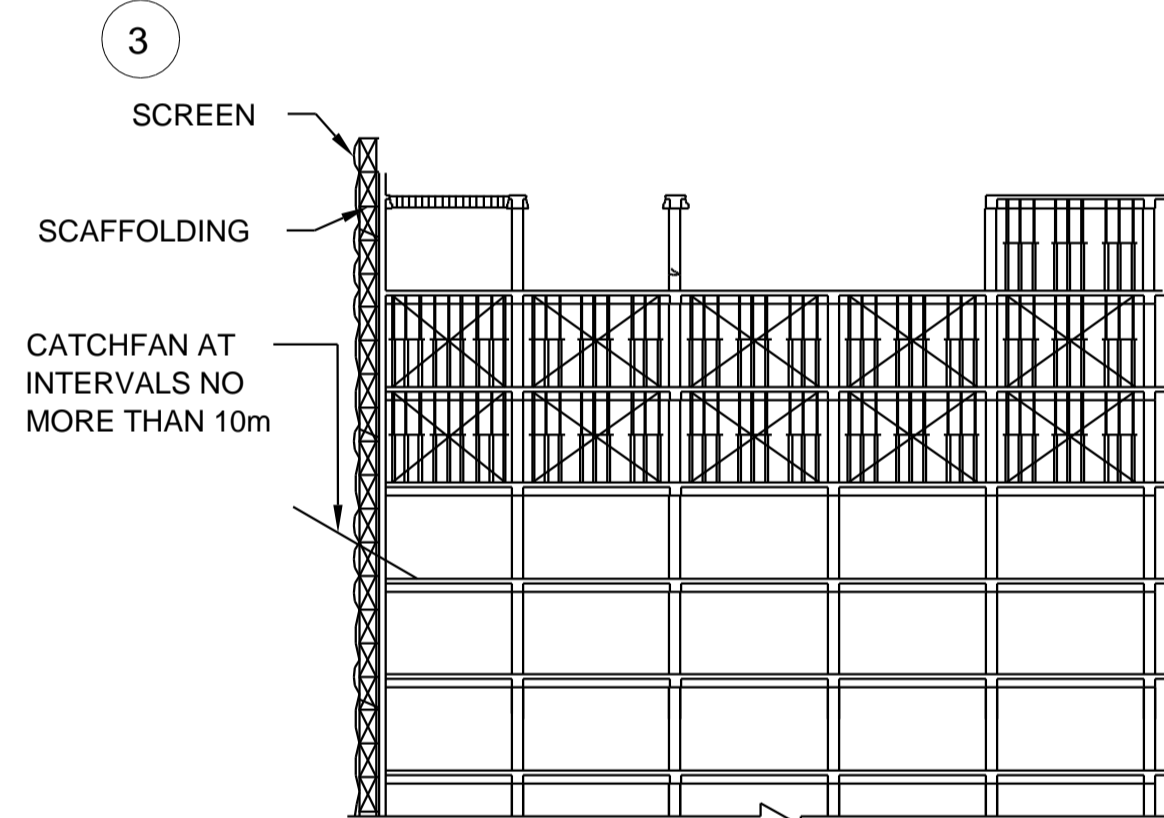
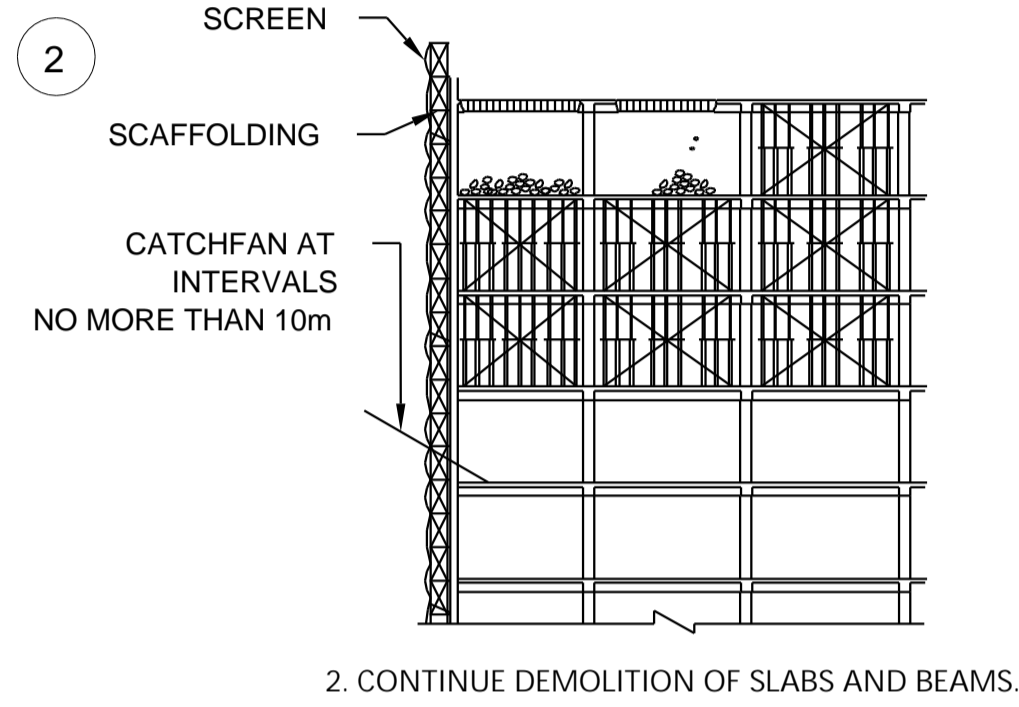
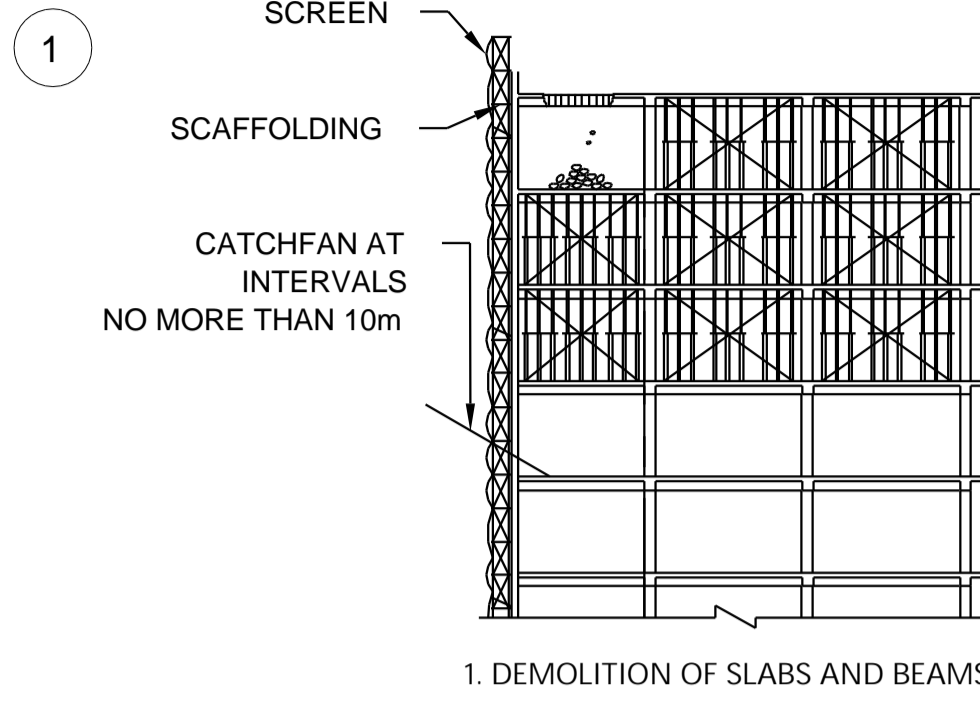
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90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

BD's OFFICAL USE

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TYPICAL SEQUENCE OF TOP DOWN METHOD
WITH HAND HELD TOOLS



BD REF :

BIM REF :

REV DATE AMENDMENT

PROJECT
CIC SAMPLE PROJECT

DRAWING TITLE
DEMOLITION DETAILS

SCALE AS SHOWN@A1

DRAWING NO. REV. NO.

D003

SOURCE ---

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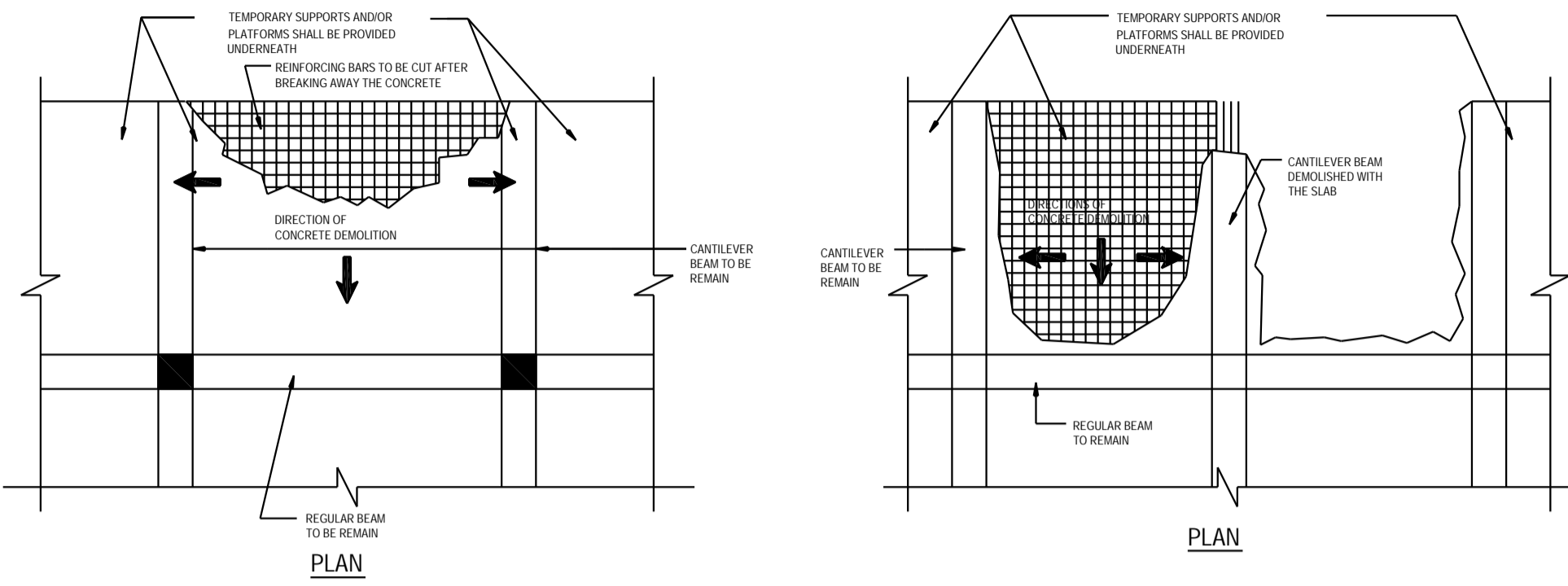
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for AP/RSE/RGE's
signature/ and stamp chop

BD's OFFICAL USE

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for BD's approval stamp /
certification of copies of
approved plans
(PNAP ADM-10 APP A)

DEMOLITION OF R.C. SLAB (MANUAL METHOD)

1. ENSURE ALL LOADS OTHER THAN SELF-WEIGHT, ARE REMOVED FROM SLABS. FOR CANTILEVER SLAB, THE EXTERIOR WALL OR PARAPET SHALL BE DEMOLISHED FIRST.
2. THE SLAB SHALL BE DEMOLISHED BY GRADUALLY BREAKING AWAY THE CONCRETE.
3. THE REINFORCEMENT SHALL REMAIN AND BE CUT OFF AFTER THE CONCRETE IS BROKEN AWAY.



CANTILEVER SLAB

1. TEMPORARY SUPPORTING STRUCTURES AND/OR CATCH PLATFORM SHALL BE PLACE DIRECTLY UNDERNEATH THE CANTILEVER STRUCTURE AS PRECAUTION MEASURES. (SEE SECTION REFER TO SEPARATE DRG.)
2. THE CONCRETE SHALL BE BROKEN DOWN GRADUALLY STARTING FROM THE EXTERIOR EDGE OF THE CANTILEVER FLOOR, WORKING INWARDS AND TOWARDS ITS SUPPORTING BEAM.

CANTILEVER SLAB AND BEAM

THE CANTILEVER BEAM SHALL BE DEMOLISHED AFTER THE DEMOLITION OF THE CONNECTING FLOOR SLAB. DEMOLITION OF THE CANTILEVER BEAM SHALL NOT ADVANCE FURTHER THAN THE SLAB SO THAT THE SUPPORT FOR THE SLABS ALWAYS MAINTAINED.

TWO WAY SLAB

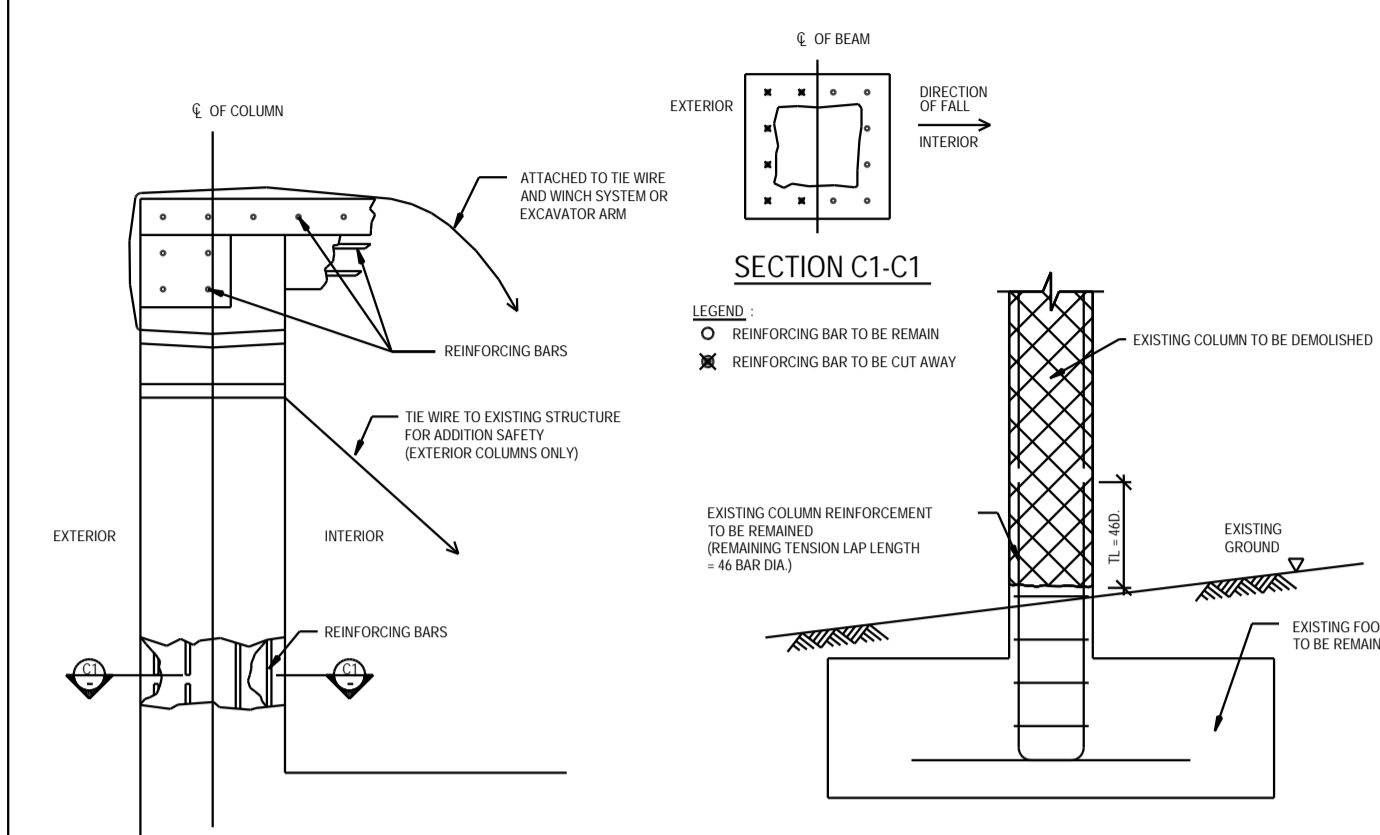
DEMOLITION OF SLAB SHALL BEGIN IN THE MIDDLE OF THE SLAB AND ADVANCE TOWARDS THE SIDES IN 4 DIRECTIONS.

ONE WAY SLAB

1. THE BREAKING OF CONCRETE SHALL BEGIN AT UNSUPPORTED END AND PROCEED IN STRIPS NOT EXCEEDING 500mm PERPENDICULAR TO THE LINES OF SUPPORT.
2. THE STRIPS SHALL BE DEMOLISHED FROM THEIR CENTRE TOWARDS IN BOTH DIRECTION.

PRE-WEAKENING AND DISMANTLING OF R.C. COLUMN (MANUAL METHOD)

- NOTES:**
1. SECURE THE COLUMN BY WIRE & WINCH TO EXISTING STRUCTURE.
 2. PRE-WEAKENING AT THE BOTTOM OF COLUMN BY HAND HELD TOOLS.
 3. BREAK AWAY THE CONCRETE TO EXPOSE THE REINFORCING BARS.
 4. CUT THE REINFORCING BARS AT THE EXTERIOR HALF OF THE COLUMN. CUTTING SHALL BE PERFORMED IMMEDIATELY PRIOR TO PULLING.
 5. PULLING DOWN THE COLUMN IN A CONTROLLED MOTION.



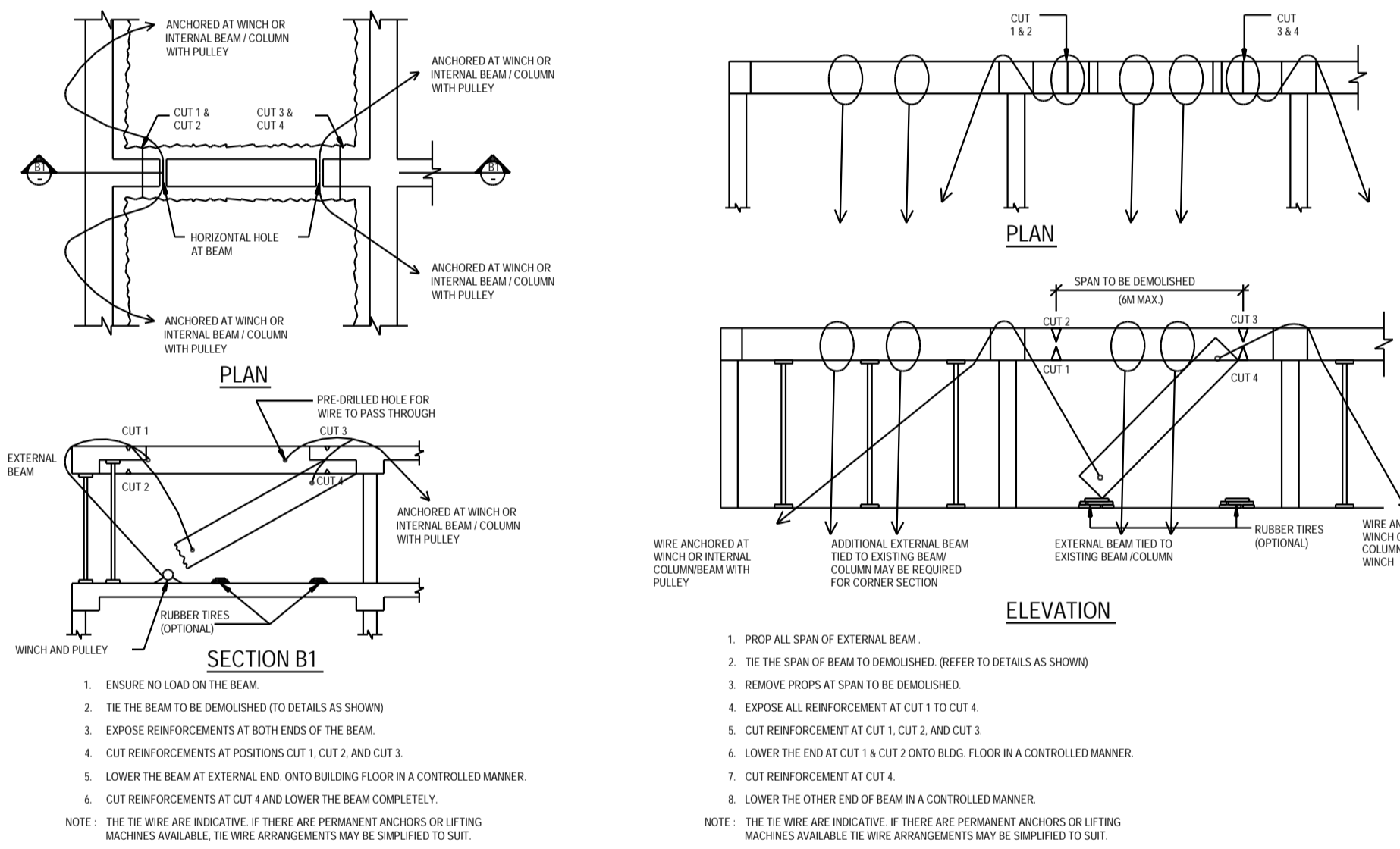
DEMOLITION OF R.C. COLUMN

ALL COLUMN, EITHER EXTERIOR OR INTERIOR MAY BE PRE-WEAKENED AT THE BOTTOM OF COLUMN, PULLED DOWN ONTO BUILDING FLOOR FOR FURTHER BREAKEN.

TYPICAL DETAIL OF DEMOLITION COLUMN ABOVE GROUND

DEMOLITION OF R.C. BEAM (MANUAL METHOD)

1. BEAMS MAY BE DEMOLISHED BY GRADUALLY BREAKING AWAY THE CONCRETE. THE REINFORCEMENT SHALL REMAIN AND CUT OFF AFTER THE CONCRETE IS BROKEN AWAY.
2. ALTERNATIVELY, THE ENTIRE BEAM SECTION MAY BE DISMANTLED AND LOWER ONTO THE FLOOR LEVEL FOR FURTHER BREAKDOWN.

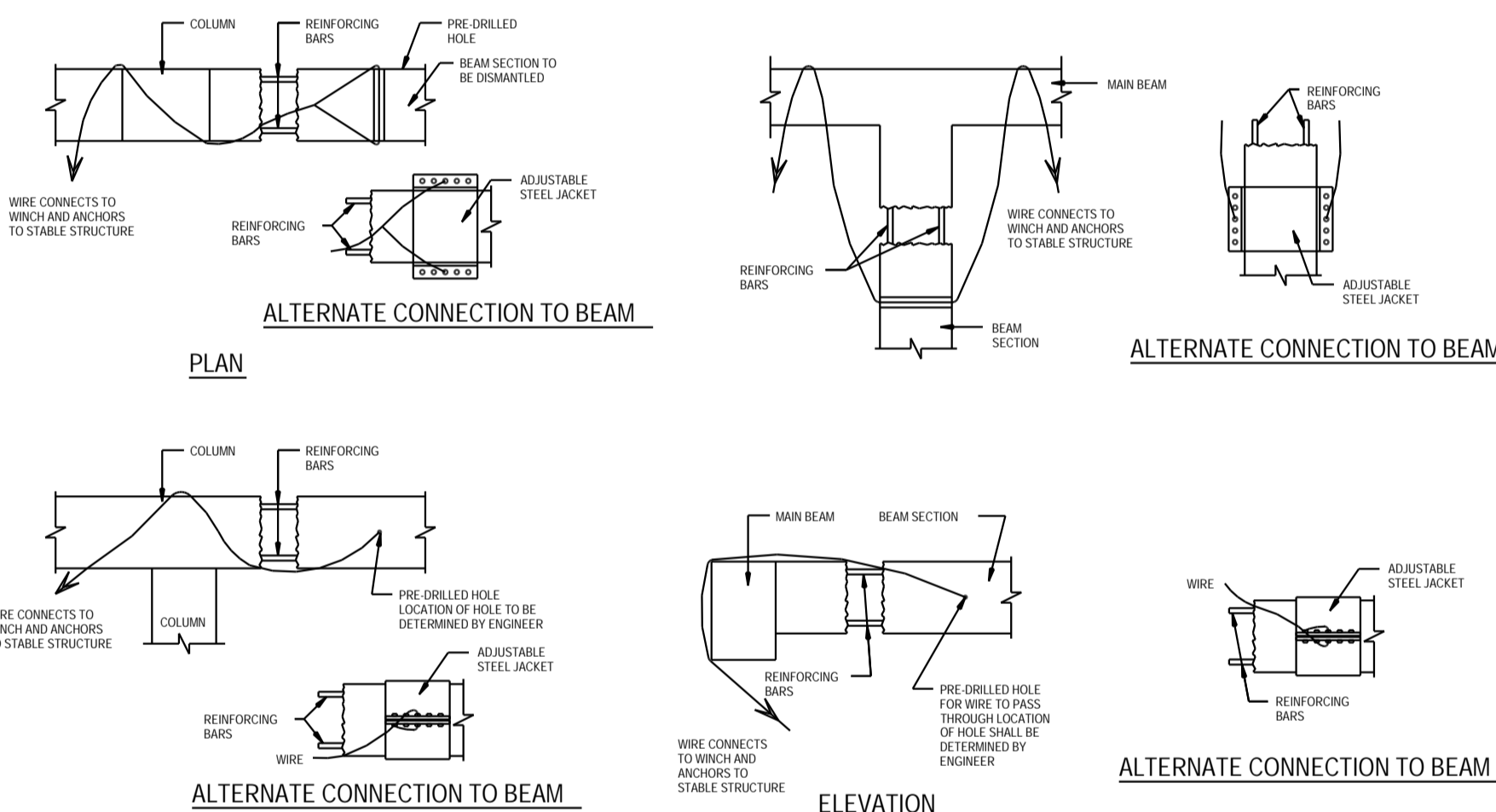


DEMOLITION OF SECONDARY BEAM

DEMOLITION OF MAIN BEAM

1. PROP ALL SPAN OF EXTERNAL BEAM.
2. TIE THE SPAN OF BEAM TO BE DEMOLISHED. (REFER TO DETAILS AS SHOWN)
3. REMOVE PROPS AT SPAN TO BE DEMOLISHED.
4. EXPOSE ALL REINFORCEMENT AT CUT 1 TO CUT 4.
5. CUT REINFORCEMENT AT CUT 1, CUT 2, AND CUT 3.
6. LOWER THE END AT CUT 1 & CUT 2 ONTO BLDG. FLOOR IN A CONTROLLED MANNER.
7. CUT REINFORCEMENT AT CUT 4.
8. LOWER THE OTHER END OF BEAM IN A CONTROLLED MANNER.

NOTE: THE TIE WIRE ARE INDICATIVE. IF THERE ARE PERMANENT ANCHORS OR LIFTING MACHINES AVAILABLE, THE WIRE ARRANGEMENTS MAY BE SIMPLIFIED TO SUIT.

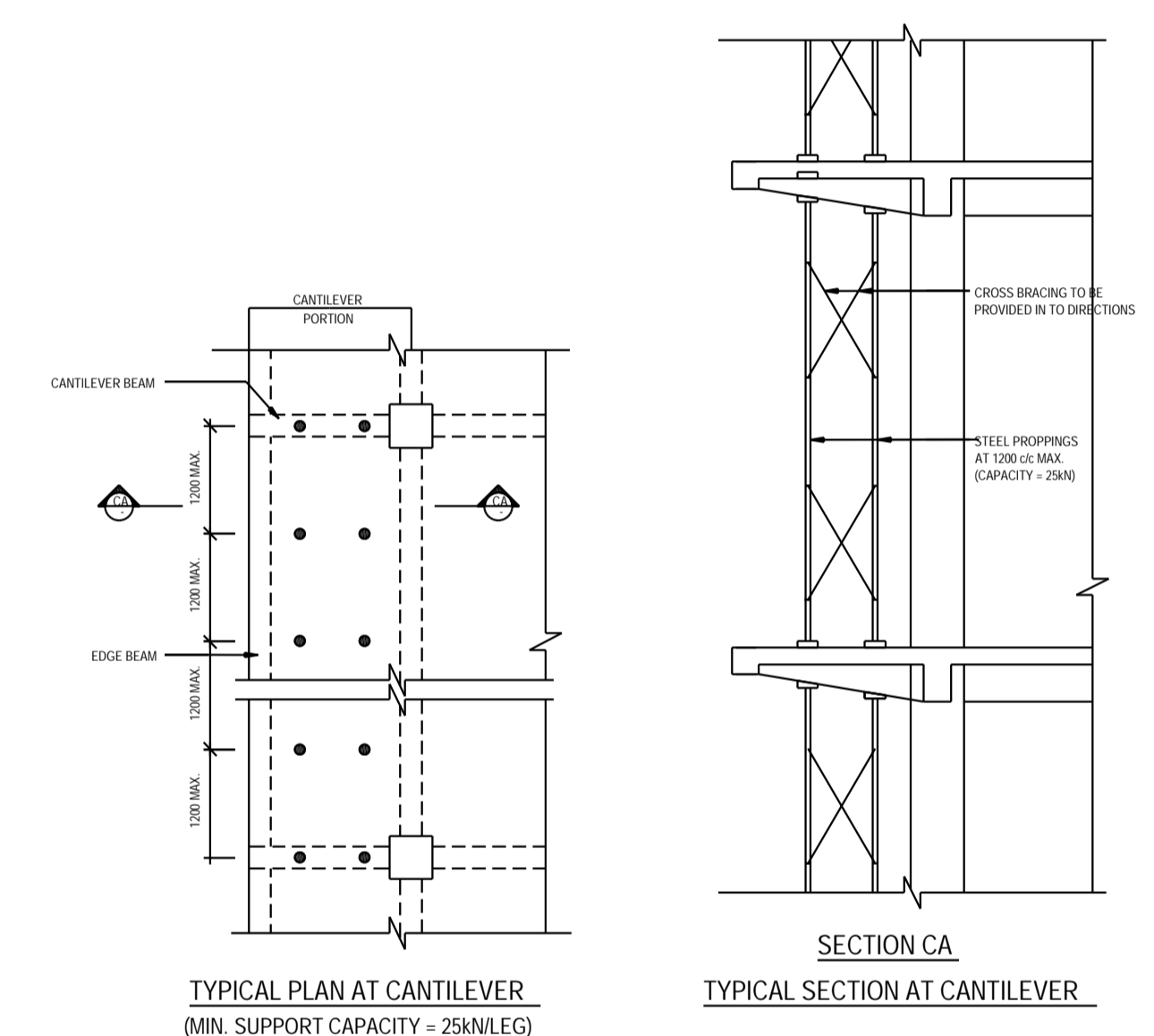


DETAILS FOR SECURING EXTERNAL BEAMS BEFORE DISMANTLING

DETAILS FOR SECURING SECONDARY BEAMS BEFORE DISMANTLING

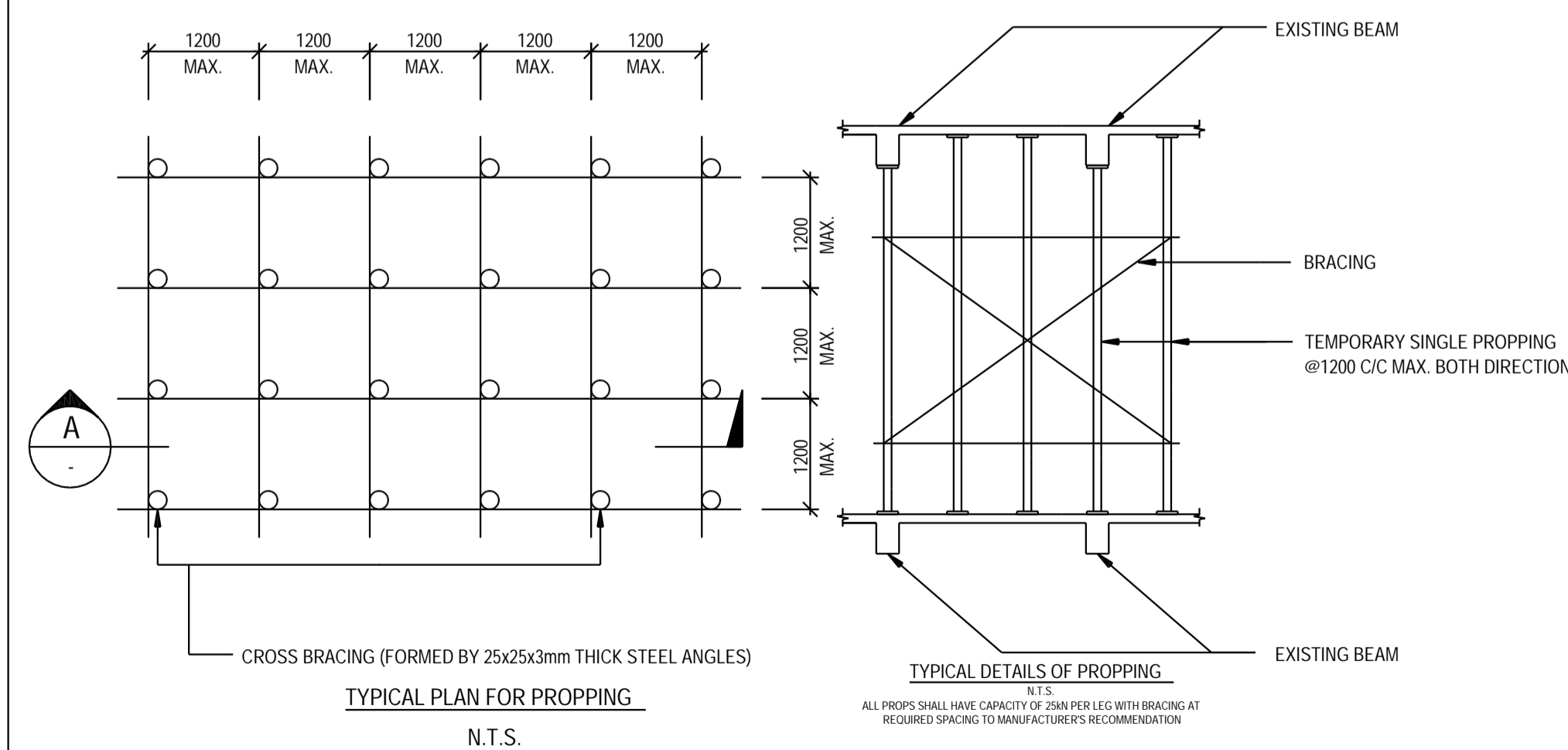
NOTE: THE TIE WIRE ARRANGEMENT IS ILLUSTRATION PURPOSE. IT MAY BE SIMPLIFIED TO SUIT DEPENDING ON THE AVAILABILITY OF STRUCTURAL ANKHOR.

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TYPICAL PLAN AT CANTILEVER (MIN. SUPPORT CAPACITY = 25kN/LEG)

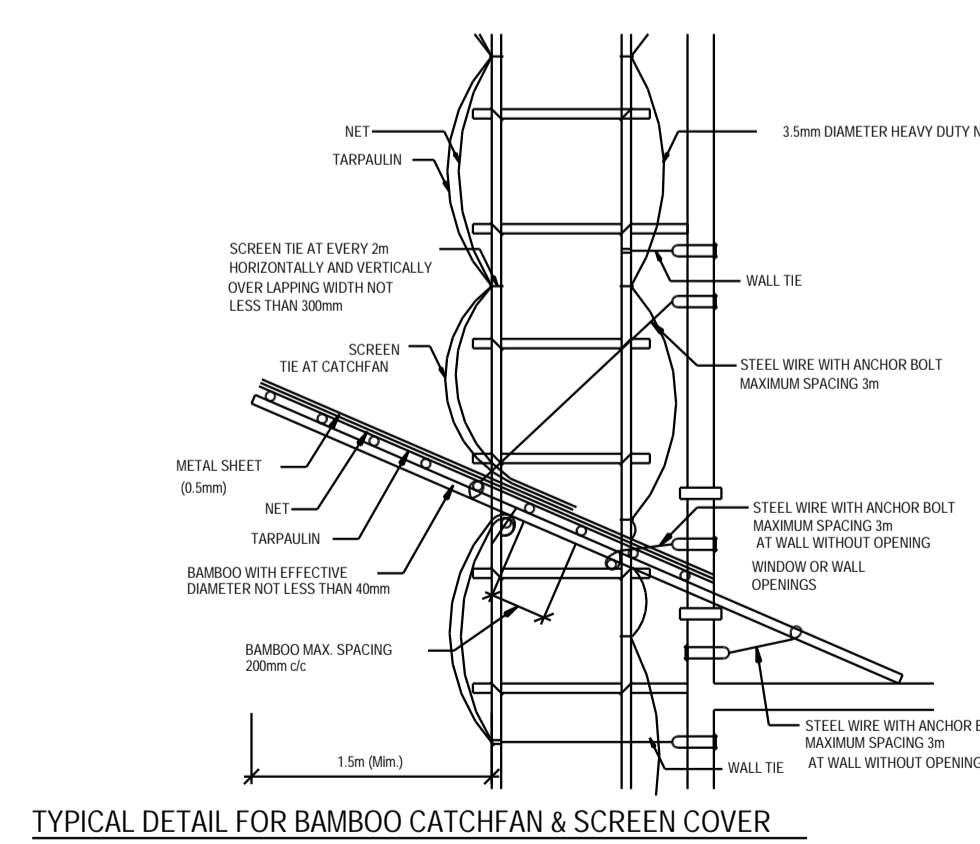
TYPICAL SECTION AT CANTILEVER



TYPICAL PLAN FOR PROPPING N.T.S.

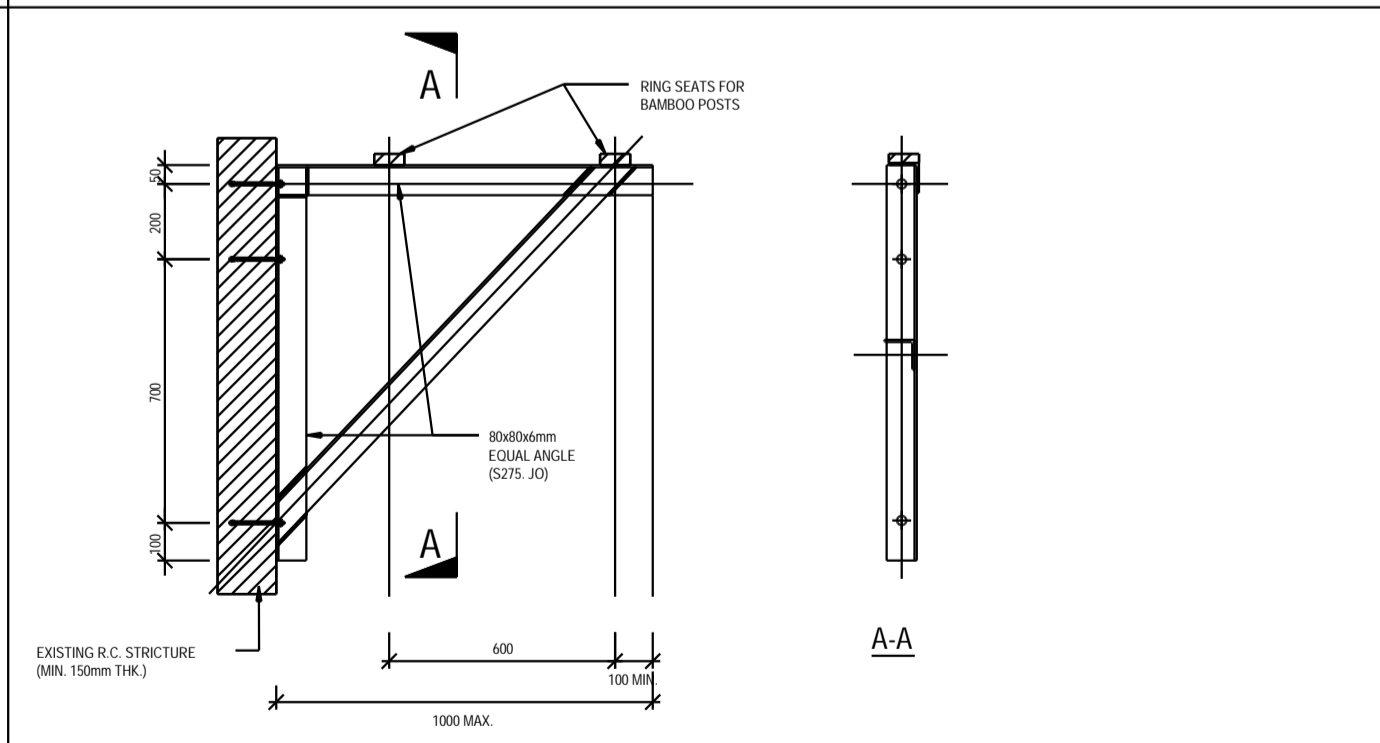
TYPICAL DETAILS OF PROPPING N.T.S.

ALL PROPS SHALL HAVE CAPACITY OF 25kN PER LEG WITH BRACING AT REQUIRED SPACING TO MANUFACTURER'S RECOMMENDATION



TYPICAL DETAIL FOR BAMBOO CATCHFAN & SCREEN COVER

1. BAMBOO FOR THE CONSTRUCTION OF SCAFFOLD, AND CATCHFAN SHALL HAVE AN EFFECTIVE DIAMETER NOT LESS THAN 40mm.
2. METAL SHEET NET AND TARPULIN SHALL BE FASTENED TO THE BAMBOO DECK AT 4 CORNERS OF THE SHEET OR AT SPACING NOT LESS THAN 1.5m APART WHICHEVER IS LESS.



TYPICAL DETAIL FOR STEEL BRACKET

* ALL JOINTS TO BE 5mm F.W. ALL ROUND

- NOTES ON ANCHOR BOLTS:**
1. ANCHOR BOLTS SHALL BE INSTALLED STRICTLY IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATION

TYPE	MIN. EMBEDMENT TO SQUARE CONCRETE (mm)	MIN. SPACING (mm)	MIN. EDGE DISTANCE (mm)	RECOMMENDED LOAD (kN)	TEST LOAD TENSION (kN)
HST	75	60	75	4.0	11.7
M12	75	60	75	4.0	11.7

BD REF :

BIM REF :

REV DATE AMENDMENT

PROJECT
CIC SAMPLE PROJECT

DRAWING TITLE
DETAIL FOR DEMOLITION WORKS
(1 OF 2)

SCALE AS SHOWN@A1

DRAWING NO. REV. NO.

D004

SOURCE ---

90mm (W) x 40mm (H) space for COMPANY LOGO

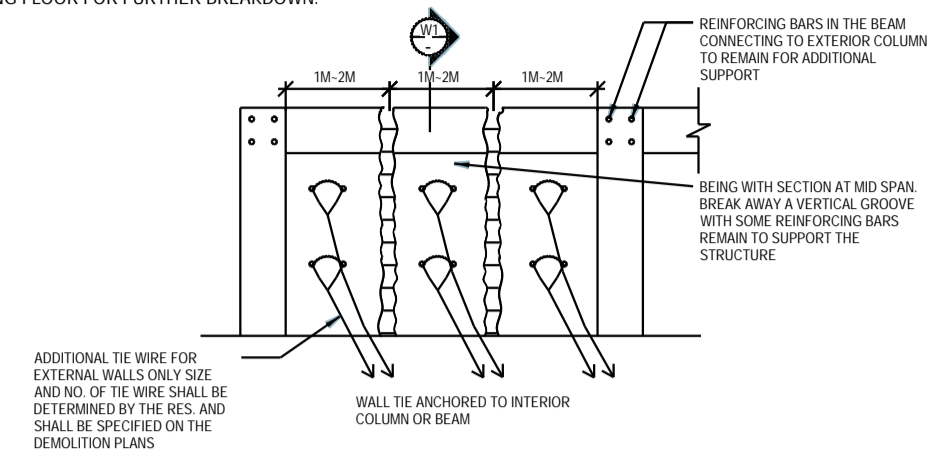
90mm (W) x 60mm (H) space for AP/RSE/RGE's signature/ and stamp chop

BD's OFFICAL USE

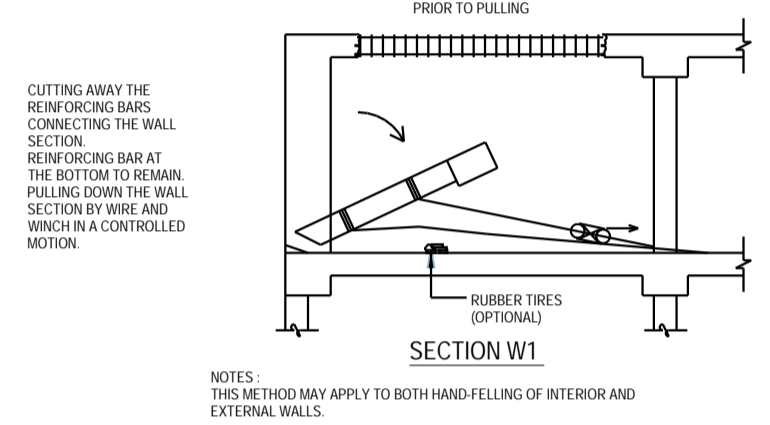
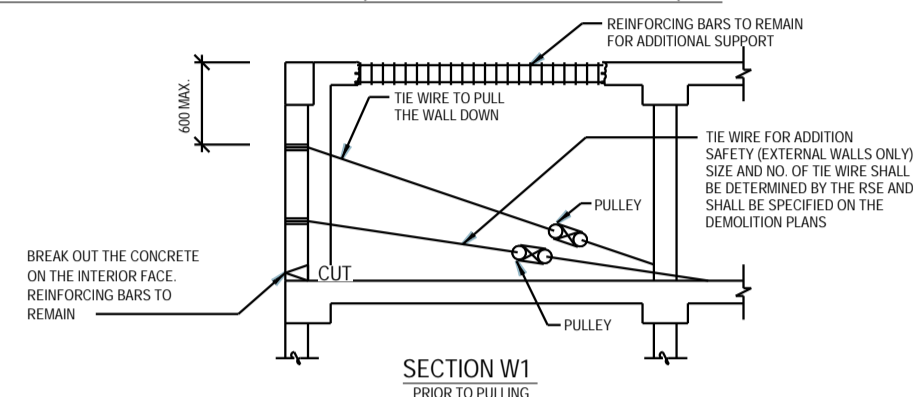
90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)

FELLING OF R.C. WALL (MANUAL METHOD)

1. REINFORCEMENT CONCRETE WALLS MAY BE DEMOLISHED BY CUTTING DOWN THE WALL INTO MANAGEABLE SECTIONS, PRE-WEAKED AT THE WALL BASE AND PULLED DOWN ONTO BUILDING FLOOR FOR FURTHER BREAKDOWN.

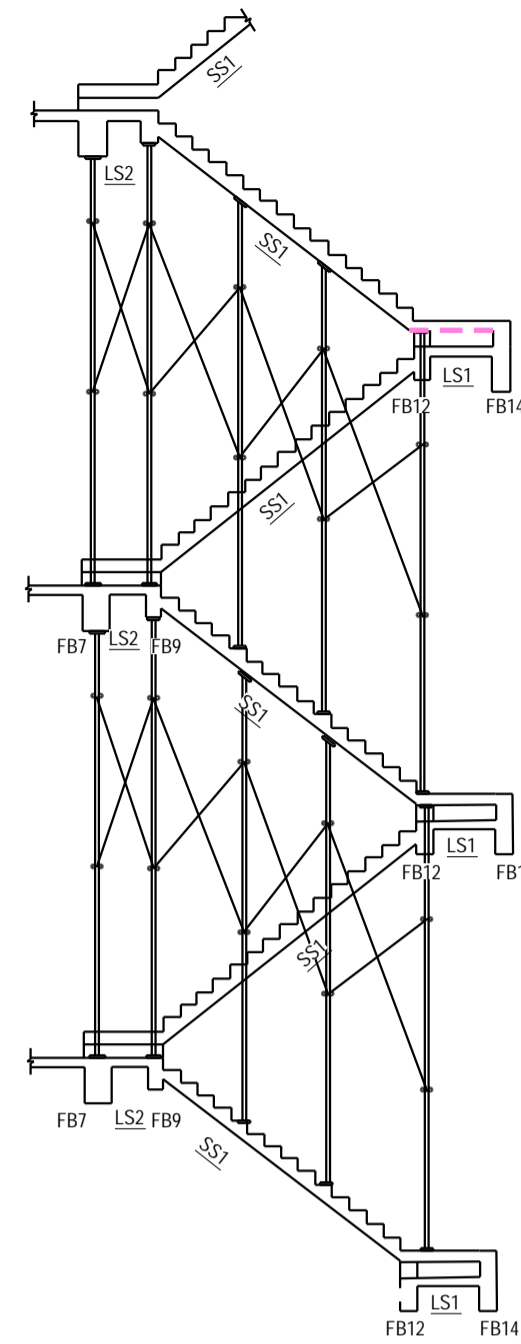


EXTERNAL R.C. WALL (VIEW FROM INSIDE)



FELLING OF REINFORCED CONCRETE WALL

NOTES:
THIS METHOD MAY APPLY TO BOTH HAND FELLING OF INTERIOR AND EXTERNAL WALLS.



SEQUENCE FOR DEMOLITION OF STAIRCASE:

1. ERECT THE STEEL PROPS AT 1.2m c/c MAX. IN BOTH DIRECTION UNDERNEATH THE STAIRCASE BEFORE DEMOLITION.
2. DEMOLITION OF STAIR FLIGHT SS1 OF STAIRCASE.
3. DEMOLITION OF UPPER LANDING LS2
4. DEMOLITION OF LOWER LANDING LS1
5. DEMOLITION THE SUPPORTING BEAM FB9/FB12
6. THE MAIN BEAM FB7 AND FB14 SHALL BE DEMOLISHED UNTIL DEMOLISHED ALL THE SUPPORTING MEMBER.

DEMOLITION SEQUENCE OF STAIRCASE

BD REF :

BIM REF :

REV DATE AMENDMENT

PROJECT
CIC SAMPLE PROJECT

DRAWING TITLE
DETAIL FOR DEMOLITION WORKS
(2 OF 2)

SCALE AS SHOWN@A1

DRAWING NO. REV. NO.

D005

SOURCE ---

90mm (W) x 40mm (H) space
for COMPANY LOGO

90mm (W) x 60mm (H) space
for AP/RSE/RGE's
signature/ and stamp chop

BD's OFFICAL USE

90mm (W) x 150mm (H) space
for BD's approval stamp /
certification of copies of
approved plans
(PNAP ADM-10 APP A)

GENERAL NOTES FOR HOARDING PLAN:


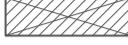
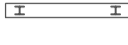


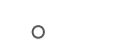




- DESIGN AND CONSTRUCTION SHALL COMPLY WITH:
 - HONG KONG BUILDING (CONSTRUCTION) REGULATION.
 - CODE OF PRACTICE FOR STRUCTURAL USE OF STEEL 2011.
 - CODE OF PRACTICE FOR STRUCTURAL USE OF CONCRETE 2013.
 - CODE OF PRACTICE FOR FOUNDATION 2017.
 - CODE OF PRACTICE ON WIND EFFECTS IN HONG KONG 2019.
- ALL DIMENSIONS AND LEVEL ARE IN mm AND mPD RESPECTIVELY.
- THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AS SHOWN ON DRAWINGS AND ON SITE PRIOR TO THE CONSTRUCTION WORK IS PROCEEDED.
- ALL MATERIALS TO BE USED SHALL BE NEW.
- LOADING/UNLOADING SHOULD BE CONFINED WITHIN THE SITE.
- VEHICLES SHOULD NOT BE PLANNED TO QUEUE ON PUBLIC ROAD.
- ADDITIONAL TIE-WIRE TO BE PROVIDED TO ENHANCE THE STABILITY OF THE HOARDING/COVERED WALKWAY DURING TYPHOON SEASONS.
- DURING CONSTRUCTION THE STRUCTURE SHALL BE MAINTAINED IN STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.
- LOCATION OF ALL UNDERGROUND UTILITIES SHALL BE DETECTED BY USING APPROPRIATE DETECTION EQUIPMENT AND DIGGING TRIAL PIT IF REQUIRED
- ALL UNDERGROUND UTILITIES SHALL BE PROPERLY PROTECTED
- THE HOARDING SHALL BE REMOVED AS SOON AS THE BUILDING WORKS IS COMPLETED
- ALL THE FOUNDATIONS SHALL BE REMOVED UPON REMOVAL OF HOARDING AND THE TRUCKS SHALL BE CHECKING FOR THE PRESENCE OF RSE/PROJECT MANAGER
- SHOULD THE WORKS INVOLVE TREE FELLING OR TRANSPLANTATION, APPROVAL FROM DLO SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF THE WORKS
- A SAFETY CERTIFICATE SHALL BE SUBMITTED BY THE AP/RS ANNUALLY AND UPON EXPIRY OF THE HOARDING PERMIT IF RENEWAL OF HOARDING IS REQUIRED
- TRANSPORT DEPARTMENT SHOULD BE APPROACHED ON NECESSARY REMOVAL OF STREET FURNITURE, TRAFFIC SIGNS, SIGNALS MARKING, BUS STOPS, PARKING SPACES, ETC.
- THE HOARDING, INCLUDING ITS FOUNDATION, MUST NOT OBSTRUCT THE ACCESS TO ANY UTILITY PIT COVER LOCATED WITHIN THE HOARDING AREA.
- THE HOARDING SHALL NOT OBSCURE ANY TRAFFIC SIGNS OR TRAFFIC SIGNALS. WHERE RESITING/REMOVAL OF ANY TRAFFIC AIDS (SUCH AS TRAFFIC SIGNS, TRAFFIC SIGNALS, GUARDRAIL AND THE LINK), THE AP AND RSE SHALL BE RESPONSIBLE FOR ALL APPLICATION TO THE RELEVANT GOVERNMENT AUTHORITIES FOR ANY TEMPORARY RESITING OF TRAFFIC SIGNS/LAMP POSTS ETC. WHICH MAY BE OBSCURED BY THE HOARDING AND COVERED WALKWAY.
- THE REQUIRED CLEAR WIDTH MUST NOT BE OBSTRUCTED IN ANY MANNER BY TRAFFIC SIGN, TEMPORARY SUPPORTS, SCAFFOLDINGS OR THE LIKE.
- WHERE THE HOARDING ARE ERECTED ON THE CARRIAGEWAY AND PEDESTRIAN, THERE SHOULD BE NO OBSTRUCTION TO THE FLOW OF DRAINAGE CHANNELS AND GULLIES OF THE ROAD.
- EXISTING LAMP POLE SHOULD BE MAINTAINED AND UNOBSTRUCTED.

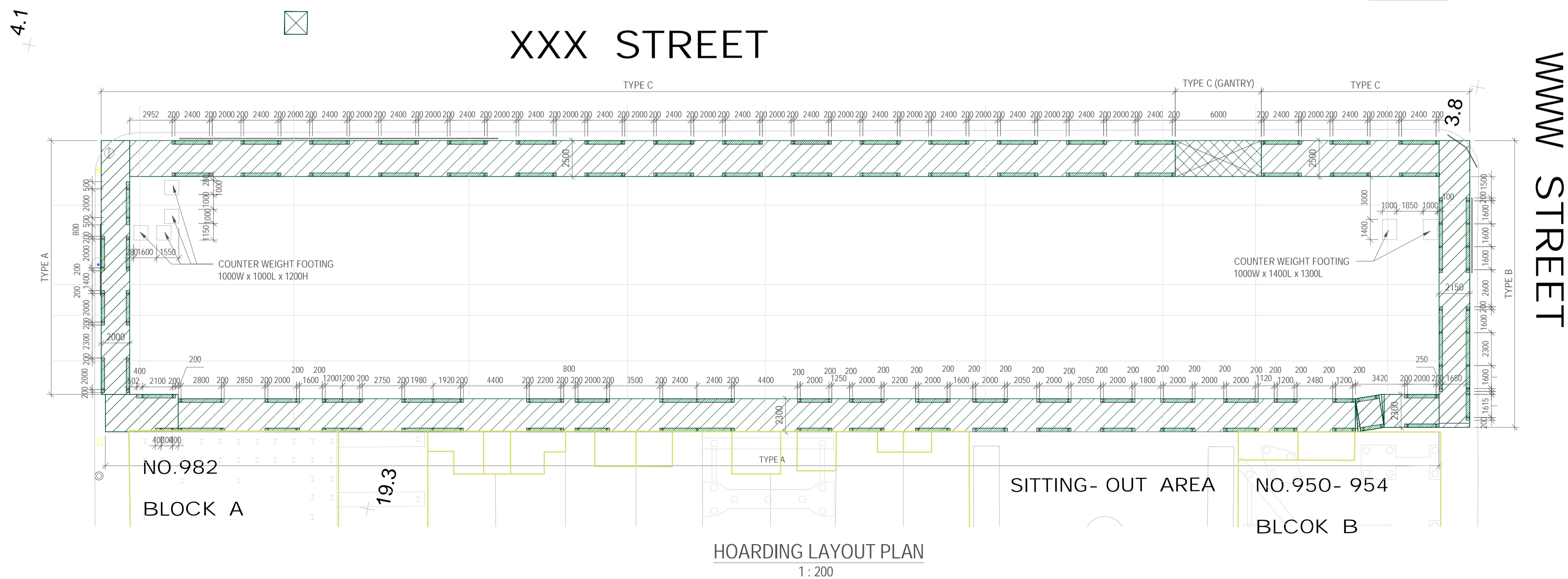
FOR REFERENCE ONLY

NOTES FOR MOE:

- NOTICE SHOULD BE MADE FOR THE CHANGE OF MEANS OF ESCAPE (MOE) TO THE OCCUPANTS.
- THE HOARDING MUST BE STABLE AND SAFE DURING OPERATION OF WORK AND TO PROVIDE ALTERNATIVE MEANS OF ESCAPE.
- SUFFICIENT DIRECTIONAL AND EXIT SIGNS SHOULD BE PROVIDED TO INDICATE THE REVISED MOE. THE SIGNS SHOULD COMPLY WITH CODE OF PRACTICE FOR MINIMUM FIRE SERVICE INSTALLATIONS AND EQUIPMENT.
- MOE SHALL COMPLY WITH FS CODE 2011.

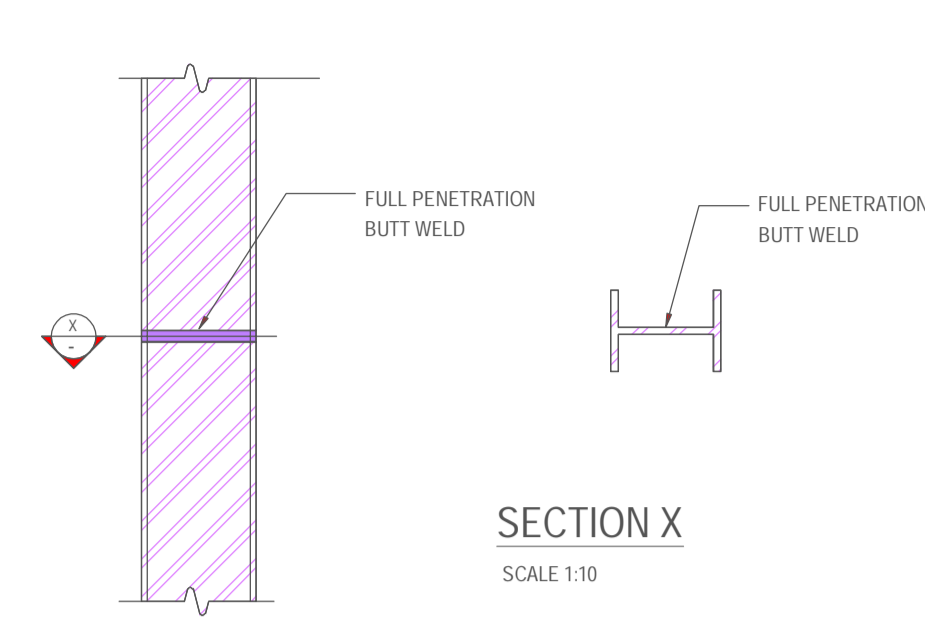
LEGEND:

-  PROPOSED COVERED WALKWAY
-  PROPOSED GANTRY
-  CONCRETE FOOTING
-  SITE BOUNDARY
-  MANHOLE
-  STREET LIGHT
-  TRAFFIC LIGHT
-  PILLAR BOX
-  FIRE HYDRANT
-  PEDESTRIAN RAILING

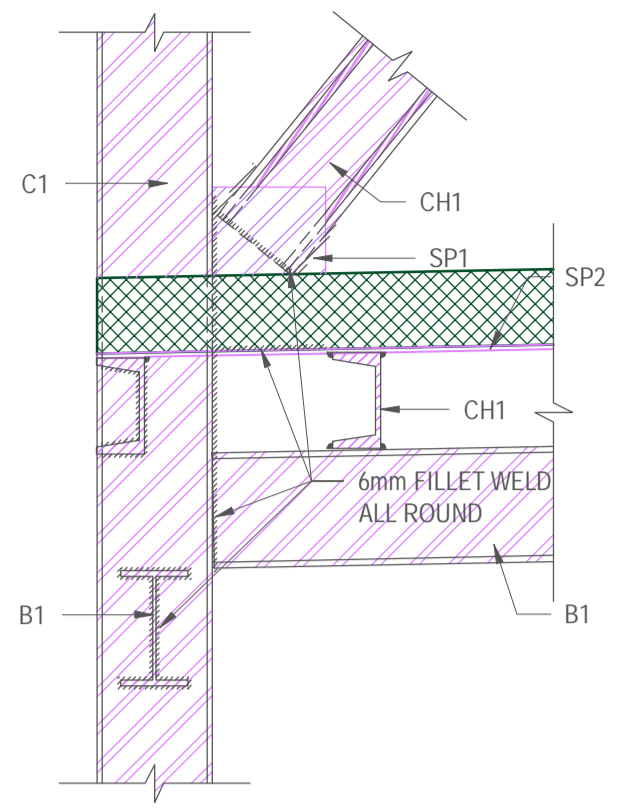


BD REF :		
BIM REF :		
REV	DATE	AMENDMENT
PROJECT CIC SAMPLE PROJECT		
DRAWING TITLE HOARDING LAYOUT PLAN		
SCALE		
DRAWING NO. H001	REV. NO.	
SOURCE ---		
90mm (W) x 40mm (H) space for COMPANY LOGO		
90mm (W) x 60mm (H) space for AP/RS/RGE'S signature/ and stamp chop		
BD'S OFFICAL USE		
90mm (W) x 150mm (H) space for BD's approval stamp/ certification of copies of approved plans (PNAP ADM-10 APP A)		

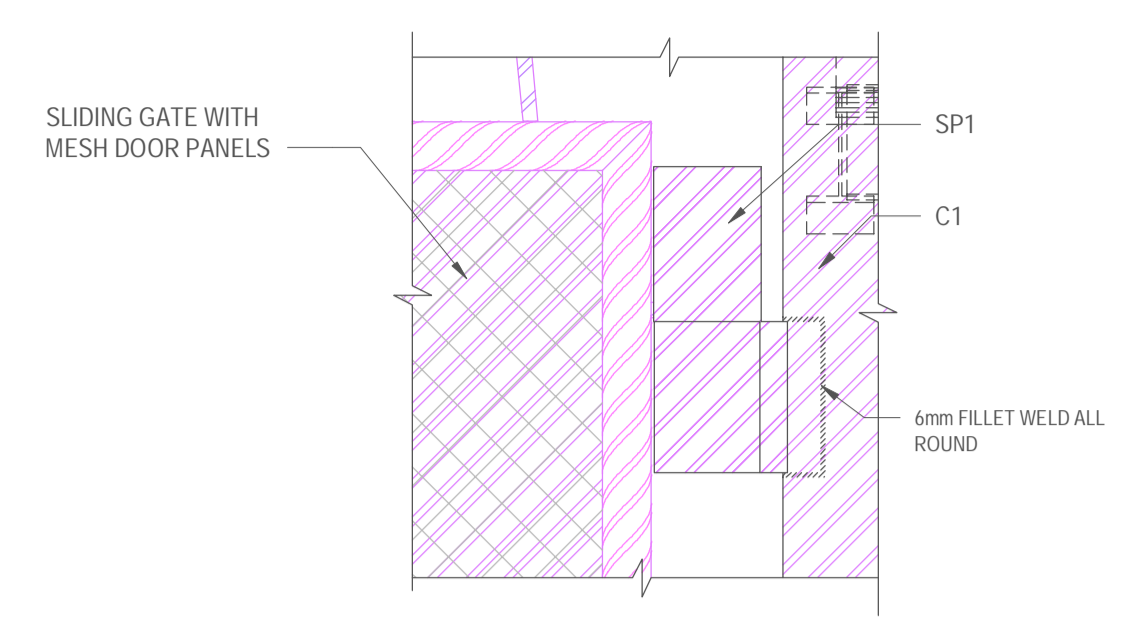
MEMBER SIZE:	
CONCRETE FOOTING (TYPE 1 TO V) REBAR SIZE, SPACING	T10 @ 250 BW
C1	152 x 152 x 23 kg/m UC
C2	203 x 203 x 46 kg/m UC
B1	152 x 89 x 16 kg/m UB
B2	203 x 133 x 25 kg/m UB
B3	254 x 146 x 31 kg/m UB
B4	457 x 191 x 74 kg/m UB
B5	178 x 102 x 19 kg/m UB
SB1/MB1	305 x 165 x 54 kg/m UB
CH1	127 x 64 x 12.9 kg/m CHANNEL @ 300c/c
CH2	76 x 38 x 6.7 kg/m CHANNEL @ 600c/c
SP1	6mm STEEL PLATE IF GRADE S275 OR EQUIVALENT
SP2	3mm STEEL PLATE IF GRADE S275 OR EQUIVALENT
STIFFENER PLATE	6mm STEEL PLATE IF GRADE S275 OR EQUIVALENT



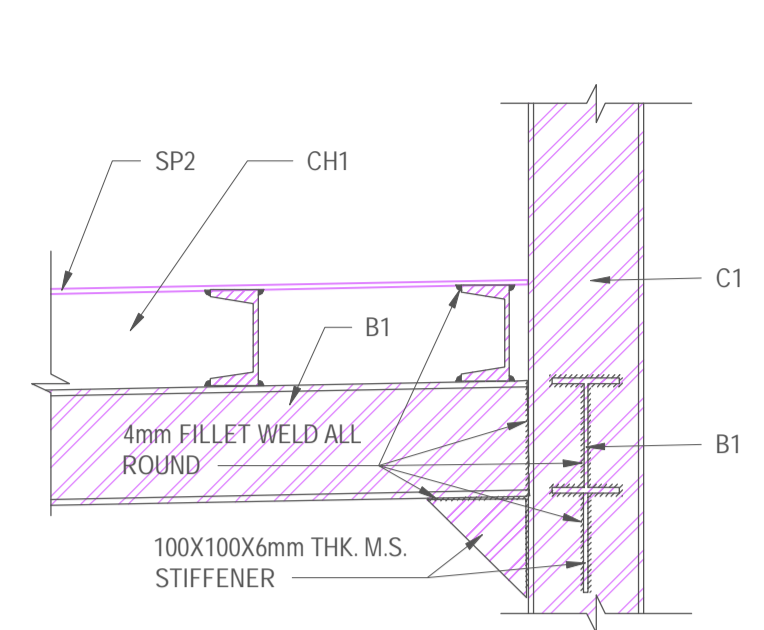
CONNECTION DETAIL OF STEEL POST
SCALE 1:10



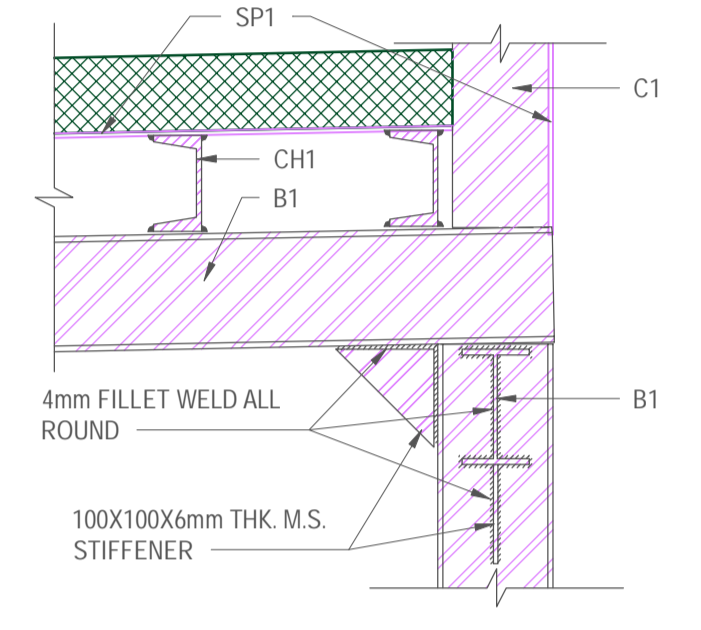
DETAIL 1
1:10



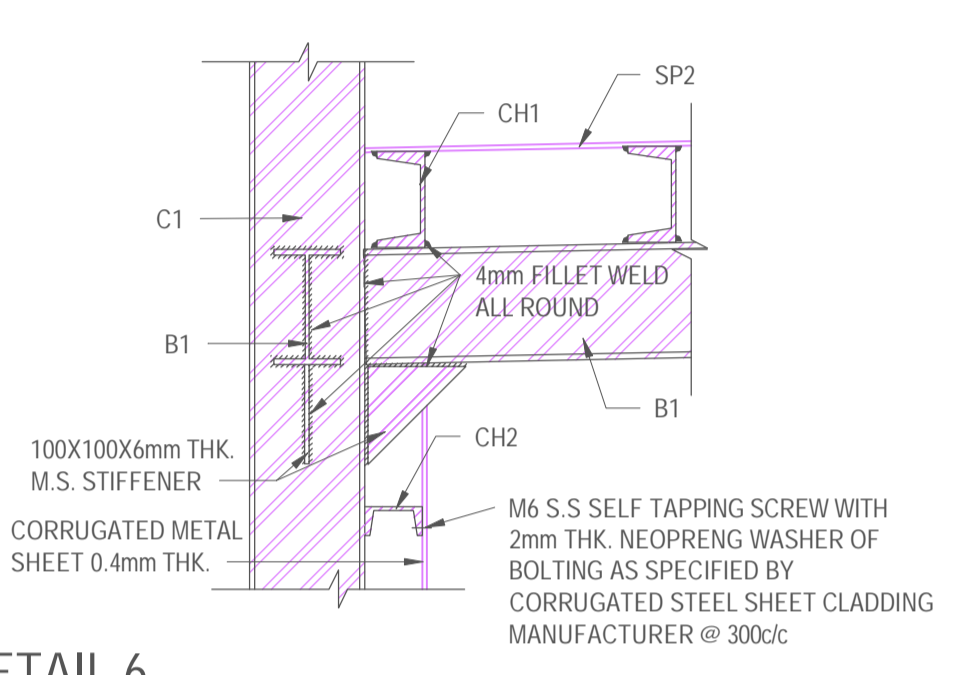
DETAIL 2
1:10



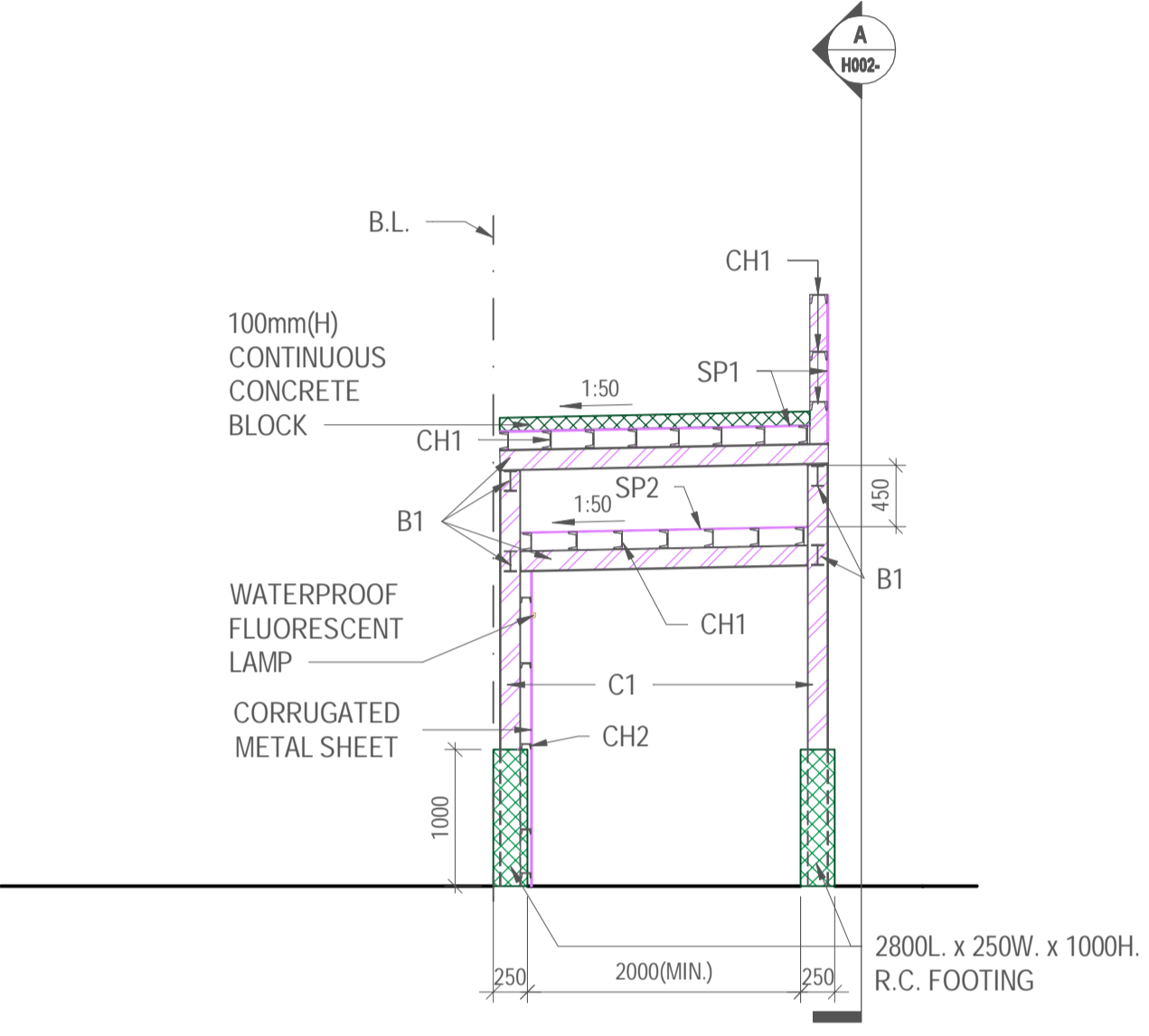
DETAIL 3
1:10



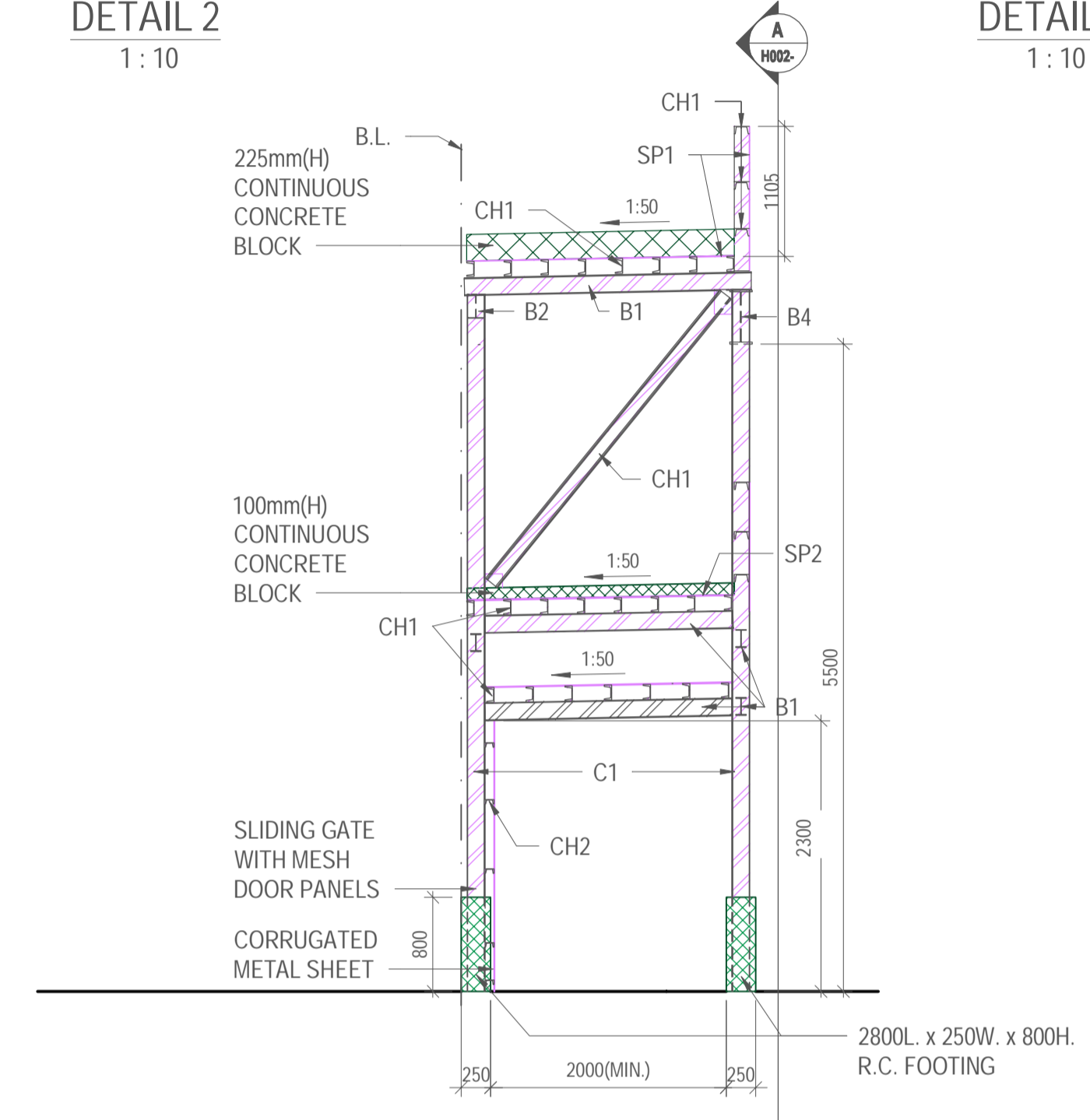
DETAIL 4
1:10



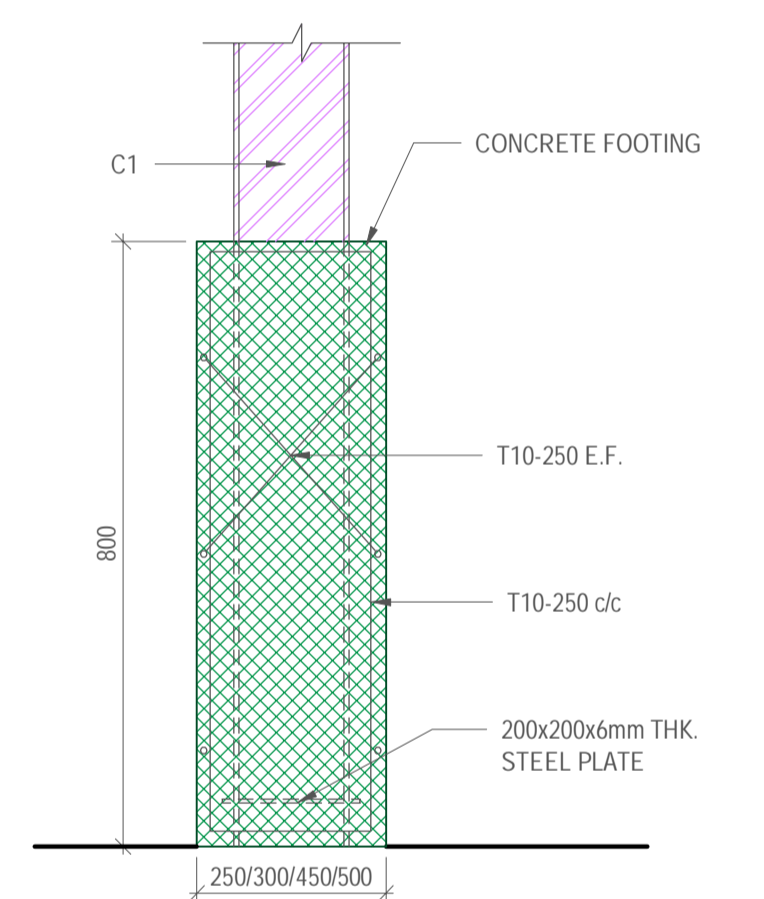
DETAIL 6
1:10



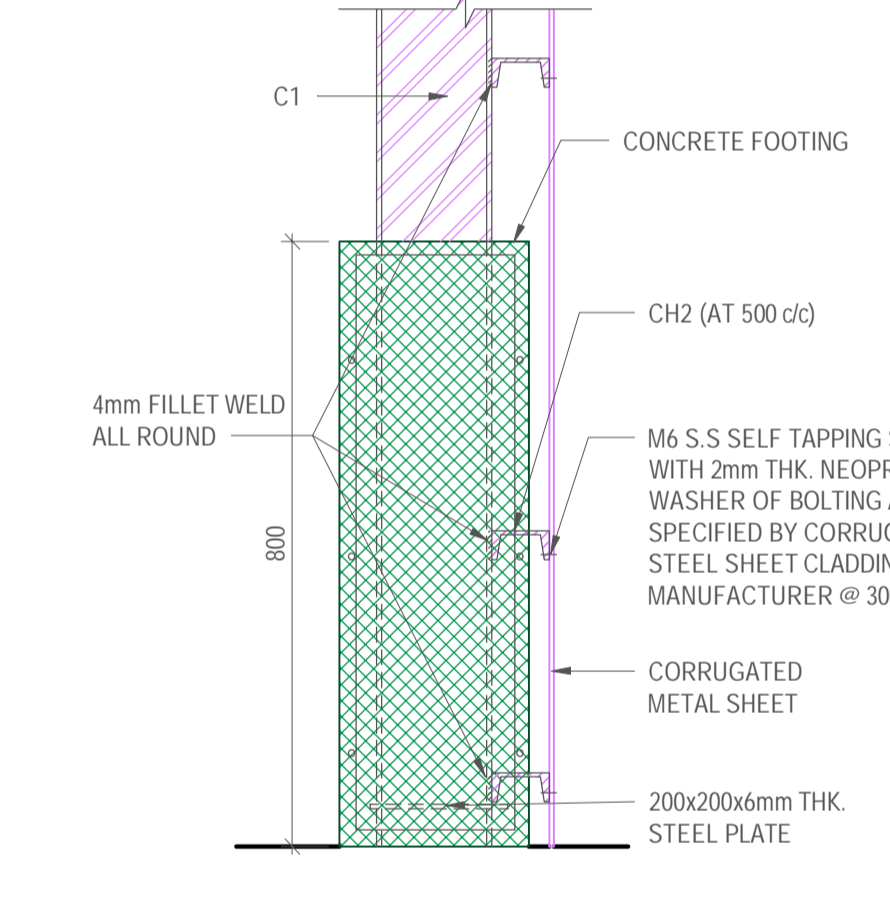
1 TYPICAL SECTION OF HOARDING TYPE C.
1:50



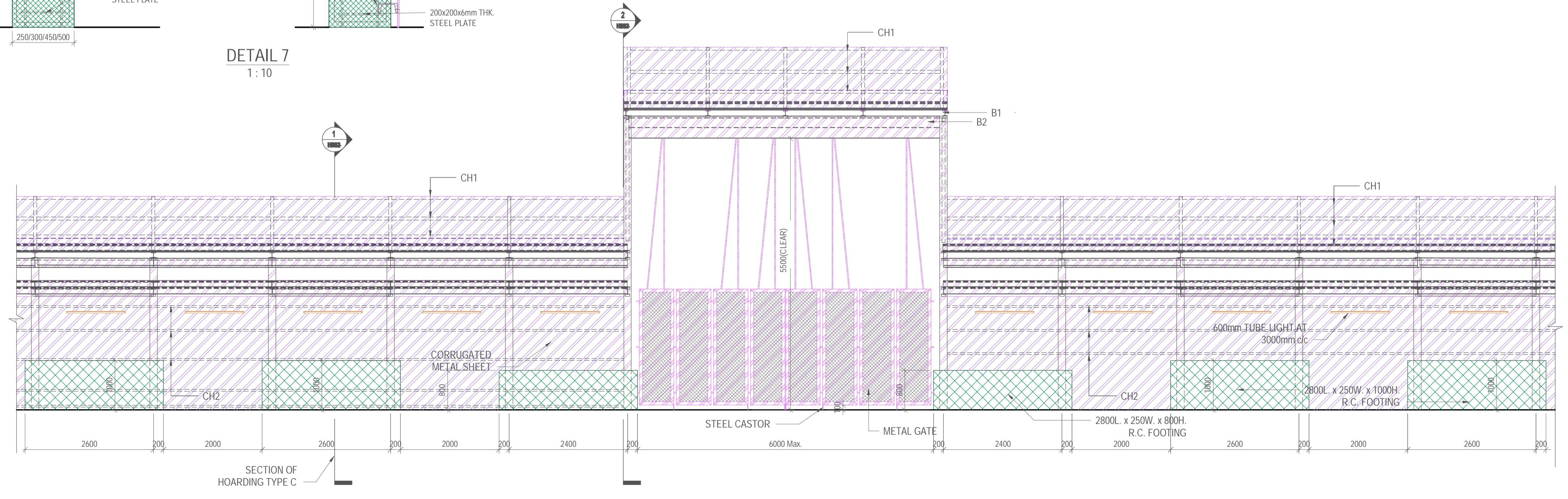
2 TYPICAL SECTION OF GANTRY TYPE C.
1:50



DETAIL 5
1:10



DETAIL 7
1:10



SECTION OF HOARDING TYPE C

A ELEVATION OF COVERED WALKWAY & GANTRY
1:50

BD REF :		
BIM REF :		
REV	DATE	AMENDMENT
PROJECT CIC SAMPLE PROJECT		
DRAWING TITLE HOARDING TYPICAL DETAILS		
SCALE		
DRAWING NO. H002-	REV. NO.	
SOURCE ---		
90mm (W) x 40mm (H) space for COMPANY LOGO		
90mm (W) x 60mm (H) space for AP/RS/RGE's signature/ and stamp chop		
BD's OFFICIAL USE		
90mm (W) x 150mm (H) space for BD's approval stamp / certification of copies of approved plans (PNAP ADM-10 APP A)		