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YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
2	Issued for Tender	2024.09.09
1	Issued for Permit	2024.07.30

Issue s

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: R.RASALINGAM
Checked by: W.PETER
Original Issue Date: 2024.07.30
Project No: 24.065
Scale: 1:1



Sheet
Title:

GENERAL NOTES

Drawing
No.

S001

A. GENERAL

- DRAWINGS ARE NOT TO BE SCALED. CONTRACTOR WILL VERIFY ALL EXISTING CONDITIONS AND DIMENSIONS REQUIRED TO PERFORM THE WORK AND WILL REPORT ANY DISCREPANCIES WITH THE CONTRACT DOCUMENTS TO THE STRUCTURAL ENGINEER BEFORE COMMENCING WORK.
- THESE DOCUMENTS ARE NOT TO BE USED FOR CONSTRUCTION UNLESS SPECIFICALLY NOTED FOR SUCH PURPOSE.
- WHERE DOCUMENTS ARE REFERENCED IN THE GENERAL AND DESIGN NOTES, THEY SHALL BE THE LATEST EDITIONS OR REVISIONS, UNLESS NOTED OTHERWISE.
- READ STRUCTURAL DOCUMENTS IN CONJUNCTION WITH ARCHITECTURAL, MECHANICAL, ELECTRICAL AND OTHER CONTRACT DOCUMENTS.
- BEFORE PROCEEDING WITH THE WORK, CHECK ALL DIMENSIONS SHOWN ON THE STRUCTURAL DOCUMENTS WITH SITE CONDITIONS AND THOSE SHOWN ON ARCHITECTURAL, MECHANICAL AND ELECTRICAL DOCUMENTS AND REPORT DISCREPANCIES TO THE CONSULTANT.
- PROVIDE LABOUR, MATERIALS, PLANT AND EQUIPMENT TO COMPLETE ALL STRUCTURAL WORK INDICATED ON THE CONTRACT DOCUMENTS.
- CARRY OUT CONSTRUCTION OPERATIONS, INCLUDING THE INSTALLATION OF TEMPORARY GUYING AND SHORING REQUIRED, ENSURING THAT THE EXISTING STRUCTURE OR MEMBERS ALREADY ERECTED ARE NOT LOADED IN EXCESS OF THEIR SAFE LOAD CARRYING CAPACITY.

B. REFERENCE STANDARDS/CODES AND ACTS

- CONFIRM WITH THE ONTARIO REGULATION 350/12, AND ANY APPLICABLE ACTS OF ANY AUTHORITY HAVING JURISDICTION, AND THE FOLLOWING:
 - CAN/CSA A23.1 CONCRETE MATERIALS AND METHODS OF CONCRETE CONSTRUCTION.
 - CAN/CSA A23.2 METHOD OF TEST FOR CONCRETE.
 - CAN/CSA A23.3 DESIGN OF CONCRETE STRUCTURES.
 - RSIC 1996 REINFORCING STEEL INSTITUTE OF CANADA (RSIC), MANUAL OF STANDARD PRACTICE.
- ALL STANDARDS AND PUBLICATIONS REFERENCED BY THE STANDARDS NOTED ABOVE ARE TO APPLY.
- WHERE THERE ARE DIFFERENCES BETWEEN THE DOCUMENTS AND THE STANDARDS, CODES AND ACTS, THE MOST STRINGENT SHALL GOVERN.

B. QUALIFICATIONS

- ANY ORGANIZATION UNDERTAKING TO WELD UNDER THIS CONTRACT SHALL BE CERTIFIED BY THE CANADIAN WELDING BUREAU UNDER REQUIREMENTS OF DIVISION 1 OR DIVISION 2.1 W47.1.

C. SUBMITTALS

- SHOP DRAWINGS
 - SUBMIT FOR REVIEW BY THE CONSULTANT, DETAILED SHOP DRAWINGS FOR ALL TEMPORARY AND PERMANENT STRUCTURAL WORK INCLUDING, BUT NOT LIMITED TO: CONCRETE FORMWORK; REINFORCING STEEL.
 - THE SCALE OF THE DRAWINGS SHALL BE SUCH THAT THE DETAILS OF THE STRUCTURAL WORK ARE CLEARLY SHOWN, AND IN NO CASE SMALLER THAN 1:50 (1/4" = 1'-0").
 - THE STRUCTURAL DRAWINGS SHALL NOT BE REPRODUCED, IN WHOLE OR IN PART, FOR USE AS SHOP DRAWINGS.
 - EACH DRAWING SUBMITTED FOR CONCRETE FORMWORK, SHALL BEAR THE SEAL AND SIGNATURE OF A QUALIFIED PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO.
 - CONTRACTOR SHALL ALLOW FOR A 5 WORKING DAY TURN AROUND TIME FOR STRUCTURAL CONSULTANT TO REVIEW THE SHOP DRAWINGS.
- CALCULATIONS
 - SUBMIT CALCULATIONS, BEARING THE SEAL AND SIGNATURE OF PROFESSIONAL ENGINEER LICENSED IN THE PROVINCE OF ONTARIO, FOR STRUCTURAL WORK, IF REQUESTED BY THE CONSULTANT.
- MILL TEST REPORTS
 - MAKE AVAILABLE TO THE CONSULTANT COPIES OF ALL MILL TEST REPORTS COVERING CHEMICAL AND PHYSICAL PROPERTIES OF MATERIALS USED.
- CONCRETE MIX DESIGNS
 - SUBMIT ALL CONCRETE MIX DESIGNS FOR REVIEW.
 - DESCRIBE IN DETAIL ON THE MIX DESIGN SUMMARY THE LOCATION(S) WHERE EACH MIX IS TO BE PLACED IN THE STRUCTURE.
- AS-BUILT DRAWINGS
 - MARK ON A COMPLETE SET OF REPRODUCIBLE AS-BUILT DRAWINGS ANY CHANGES, ADDITIONS, OR DELETIONS THAT OCCUR DURING CONSTRUCTION AS A RESULT OF THE CONTRACTOR'S WORK, CHANGE OF ORDERS OR FOR ANY OTHER REASON.

C. MATERIALS

- PROVIDE ONLY NEW STRUCTURAL MATERIALS IN ACCORDANCE WITH THE REFERENCE STANDARDS AND THE FOLLOWING, UNLESS OTHERWISE NOTED.
 - CONCRETE: CONFORM TO THE REQUIREMENTS OF CSA-A23.1 AND THE FOLLOWING:
 - EXPOSED TO FREEZE-THAW & CHLORIDES [EXPOSURE CLASS C-1]; FC = 35MPA.
 - EXPOSED TO FREEZE-THAW [EXPOSURE CLASS F-1]; FC = 30MPA.
 - NOT EXPOSED: FC = 25MPA.
 - REINFORCEMENT: CONFORM TO CSA G30 SERIES, FY = 400 MPA FOR ALL REINFORCEMENT EXCEPT THAT FY = 386 MPA FOR WELDED WIRE FABRIC. [PROVIDE WELDED WIRE FABRIC IN FLAT SHEETS ONLY]. ALL REINFORCEMENT IS TO BE BLACK EXCEPT WHERE THE SUFFIX C IS USED TO DESIGNATE EPOXY COATED REINFORCEMENT.
 - WELDED WIRE FABRIC: CONFORM TO CSA G30 SERIES, GRADE 386, IN FLAT SHEETS.
 - ANCHOR BOLTS: GRADE A307 OR 300W THREADED ROD CONFORMING TO CSA G40.21-M.
 - NON-SHRINK GROUT = PREMIXED COMPOSITION OF NON METALLIC AGGREGATE, CEMENT, WATER REDUCING AND PLASTICIZING AGENTS, OF FLOWABLE CONSISTENCY AND CAPABLE OF ACHIEVING A COMPRESSIVE STRENGTH AT 28 DAYS OF AT LEAST 35 MPA.

F. EXECUTION

- FOUNDATIONS
 - A COPY OF THE SOIL INVESTIGATION REPORT BY PATRIOT ENGINEERING LTD IS AVAILABLE FROM THE CONSULTANT. READ THIS REPORT, VISIT THE SITE AND THOROUGHLY FAMILIARIZE YOURSELF WITH ALL SURFACE AND SUBSURFACE CONDITIONS. THIS INFORMATION IS GIVEN SOLELY AS A GUIDE. NO RESPONSIBILITY IS ACCEPTED BY THE OWNER OR THE CONSULTANT FOR ITS CORRECTNESS, NOR SHALL ITS ACCURACY OR ANY OMISSIONS AFFECT THE PROVISION OF THIS CONTRACT.
 - FOUND ALL FOOTINGS ON SOIL CAPABLE OF SUSTAINING AN FACTORED BEARING RESISTANT (ULS) OF 115 KN/M² AND BEARING PRESSURE OF SETTLEMENT (SLS) OF 75 KN/M².
 - FOUND ALL FOOTINGS WHICH WILL BE EXPOSED TO FROST ACTION IN THE COMPLETED BUILDING A MINIMUM OF 1400 MM (4'-7") BELOW FINISHED GRADE.
 - DO NOT EXCEED A RISE OF 7 IN A RUN OF 10 IN THE LINE OF SLOPE BETWEEN ADJACENT FOOTING EXCAVATIONS OR ALONG STEPPED FOOTINGS. FOR STEPPED FOOTINGS, USE STEPS NOT EXCEEDING 600 MM (2'-0") IN HEIGHT AND 1400 MM (4'-7") (MIN.) IN LENGTH.
 - SOIL BEARING CAPACITY SPECIFIED MUST BE VERIFIED IN WRITING BY THE SOIL ENGINEER PRIOR TO THE PLACING OF FOOTINGS AND ANY NON-CONFORMANCE WITH THE SPECIFIED MINIMUM CAPACITIES MUST BE IMMEDIATELY REPORTED TO THE STRUCTURAL ENGINEERS.
 - PLACE 150 MM CLEAR CRUSHED STONE OVER THE SUB_BASE, COMPACTED TO 100% SPMD, WITH A MAXIMUM SURFACE VARIATION OF +/- 10MM.
 - BELOW SLABS ON GRADE BACKFILL USING NATIVE MATERIALS OR ENGINEERED FILL APPROVED BY THE GEOTECHNICAL CONSULTANT AND COMPACT IN MAX 150 MM LIFTS TO 98% SPMD.
 - PROVIDE TEMPORARY FROST PROTECTION, DURING CONSTRUCTION, FOR ALL FOUNDATIONS WHICH ARE NOT FOUNDED A MINIMUM OF 1400MM/55 INCHES BELOW GRADE
 - FOUND NEW FOOTINGS WHICH ARE LOCATED ADJACENT TO EXISTING FOOTINGS, AT THE SAME ELEVATION AS THE EXISTING FOOTINGS, UNLESS NOTED OTHERWISE.
 - INSULATION IS SHOWN WHERE REQUIRED FOR PROTECTION OF THE FOUNDATIONS FROM DAMAGE DUE TO FROST ACTION ONLY. REFER TO ARCHITECTURAL DRAWINGS FOR FOUNDATION INSULATION NOT SHOWN ON THE STRUCTURAL DRAWINGS.
 - DO NOT PLACE BACKFILL AGAINST WALLS RETAINING EARTH (OTHER THAN CANTILEVER RETAINING WALLS) UNTIL THE WALLS AND THE FLOOR CONSTRUCTION AT TOP AND BOTTOM OF THE WALLS HAVE BEEN CAST AND ATTAINED 100% OF THEIR DESIGN STRENGTH.
 - WHERE THE SLAB ON GRADE IS USED TO TIE THE TOP OF WALL RETAINING EARTH, THAT WALL SHALL BE ADEQUATELY BRACED UNTIL THE SLAB HAS BEEN CAST AND ATTAINED 100% OF ITS DESIGN STRENGTH.
 - CARRY OUT BACKFILLING AGAINST FOUNDATION WALLS WHERE THERE IS GRADE ON BOTH SIDES IN SUCH A MANNER THAT THE LEVEL OF BACKFILLING ON ONE SIDE OF THE WALL IS NEVER MORE THAN 600 MM (2'-0") DIFFERENT FROM THE LEVEL ON THE OTHER SIDE OF THE WALL.
 - DO NOT COMPACT CLOSER THAN 1800 MM (6'-0") FROM WALLS WITH HEAVY EQUIPMENT. USE LIGHT HAND CONTROLLED EQUIPMENT WITHIN 1800 MM (6'-0") FROM WALLS.
- SLAB-ON-GRADE
 - PLACE SLAB-ON-GRADE INCLUDING (PLANTER BOX INFILL) ON MATERIAL CAPABLE OF SUSTAINING A MINIMUM SLS BEARING PRESSURE OF 25 KPA (500 PSF) WITHOUT SETTLEMENT.

3. CONCRETE

- THE CONTRACTOR SHALL ENSURE THAT REINFORCING STEEL IS ADEQUATELY BRACED AGAINST MOVEMENT DURING CONCRETE PLACING.
- FABRICATE REINFORCEMENT IN ACCORDANCE WITH CAN/CSA A23.1 AND THE RSIC MANUAL OF STANDARD PRACTICE.
- PERFORM FORMING OPERATIONS AND PLACE HARDWARE SO THAT FINISHED CONCRETE WILL BE WITHIN THE TOLERANCES SET OUT IN CAN/CSA-A23.1.
- SAW-CUT SLABS ON GRADE AS SHOWN WITH A MAXIMUM LENGTH BETWEEN SAW-CUTS OF 4.5M (15'-0"). ARRANGE PANELS AS SHOWN OR TO THE CONSULTANT'S APPROVAL.
- AFTER A PERIOD OF AT LEAST 28 DAYS, FILL SAW-CUTS WITH MORTAR CONTAINING CEMENT, SAND AND LATEX BONDING AGENT. ENSURE THAT JOINTS TO BE FILLED ARE CLEAN, DRY AND FREE OF FOREIGN MATTER.
- FOLLOW MANUFACTURER'S INSTRUCTIONS REGARDING INSTALLATION PROCEDURES AND MINIMUM EMBEDMENT OF ANCHORS.
- GROUT BENEATH PLATES BEARING ON CONCRETE WITH AN APPROVED NON-SHRINK FLOWABLE GROUT, CONFORM TO THE MANUFACTURER'S DIRECTIONS FOR MIXING AND PLACING GROUT, COMPLETELY FILL VOIDS BENEATH STEEL BASES ON CONCRETE WITH AN APPROVED NON-SHRINK 36MPA (5KSI) GROUT.
- ALL DOWELS SHALL HAVE MINIMUM EMBEDMENT EQUIVALENT TO THE STRAIGHT TENSION EMBEDMENT LENGTH OR 600 MM (2'-0"), WHICHEVER IS GREATER, UNLESS NOTED OTHERWISE.
- PROVIDE DOWELS TO WALLS AND COLUMNS SIMILAR IN NUMBER, SIZE, AND SPACING TO THE VERTICAL STEEL IN THE WALL OR COLUMN ABOVE UNLESS NOTED OTHERWISE.
- REINFORCEMENT IDENTIFIED AS 'CONTINUOUS' SHALL TERMINATE WITH STANDARD END HOOKS AND SHALL BE LAPPED WITH CLASS 'B' TENSION LAP SPICES.
- REINFORCEMENT LENGTHS NOTED IN TYPICAL DETAILS ARE MINIMUM LENGTHS UNLESS NOTED OTHERWISE.
- CONSTRUCTION JOINTS:
 - HORIZONTAL CONSTRUCTION JOINTS SHALL NOT BE MADE IN BEAMS, UNLESS SHOWN OR APPROVED BY THE CONSULTANT.
 - HORIZONTAL CONSTRUCTION JOINTS IN WALLS SHALL BE ONLY MADE WHERE SHOWN ON THE DRAWINGS
 - VERTICAL CONSTRUCTION JOINTS MAY BE MADE ONLY AT MIDSPAN OF BEAMS AND SLABS UNLESS NOTED OTHERWISE
 - SUBMIT PROPOSED LOCATION OF ALL CONSTRUCTION JOINTS FOR REVIEW BY THE CONSULTANT
- LAP SPICES FOR WELDED WIRE FABRIC (WWF) SHALL BE:
 - 152X152 WWF 500 MM (1'-8")
- CONCRETE COVER:
 - COVER SHALL BE MEASURED FROM THE DEEPEST POINT TEXTURED CONCRETE SURFACE (OR REGLET/REVEAL) TO THE NEAREST DEFORMATION OF REINFORCEMENT. REINFORCEMENT INCLUDES TIES / STIRRUPS AND MAIN REINFORCEMENT.
 - ALL CONCRETE CAST AGAINST EARTH IS TO HAVE 75 MM (3") COVER, UNO.
- WHERE REINFORCEMENT IS NOT SPECIFICALLY IDENTIFIED ON THE DRAWINGS, PROVIDE 152 X 152 MW18.7 X MW18.7 WELDED WIRE FABRIC AT IN SLABS ON GRADE, OR WALKS AND 51 X 51 MWS.6 X MWS.6 TOPPINGS 60 MM (2 1/2") IN THICKNESS OR GREATER.
- PLACING CONCRETE:
 - CONFORM TO REQUIREMENTS OF CSA A23.1, AND THE FOLLOWING:
 - IMMEDIATELY BEFORE PLACING CONCRETE, CLEAN FORMS AND REINFORCEMENT OF FOREIGN MATTER.
 - DO NOT USE CONCRETE MIX MORE THAN TWO HOURS AFTER INTRODUCTION OF MIXING WATER.
 - DURING HOT WEATHER CONDITIONS, DO NOT USE CONCRETE MIXED MORE THAN ONE HOUR AFTER INTRODUCTION OF MIXING WATER.
 - ALLOW 24 HOURS MINIMUM AFTER PLACING CONCRETE IN COLUMNS, PIERS OR WALLS BEFORE PLACING CONCRETE IN BEAMS OR SLABS SUPPORTED THEREON.
 - REMOVE CONCRETE SPILLED ONTO FORMS AROUND HOISTING EQUIPMENT BEFORE DEPOSITING CONCRETE IN THESE AREAS.
- CURING CONCRETE
 - CURE ALL CONCRETE IN ACCORDANCE WITH CSA A23.1, THE CONCRETE SUPPLIERS REQUIREMENTS AND AS SPECIFIED HEREIN.
- PROTECTION
 - CONFORM TO THE REQUIREMENTS OF CSA A23.1. PROTECT FRESHLY DEPOSITED CONCRETE FROM FREEZING, PREMATURE DRYING AND EXTREMES OF TEMPERATURE. MAINTAIN CONCRETE WITH MINIMAL MOISTURE LOSS AT A RELATIVELY CONSTANT TEMPERATURE FOR THE PERIOD OF TIME NECESSARY FOR THE HYDRATION OF THE CEMENT AND TO ACHIEVE THE SPECIFIED STRENGTH OF THE CONCRETE.
 - PROVIDE SUFFICIENT INSULATION, AND HEAT AS NECESSARY, TO PREVENT FREEZING OF FROST SUSCEPTIBLE SOIL WHICH LIES AGAINST STRUCTURAL ELEMENTS; IN PARTICULAR PROTECT SOIL BENEATH FOOTINGS AND BEHIND FOUNDATION WALLS UNTIL THE BUILDING IS COMPLETED.
- CRACK REPAIR: PRIOR TO COMPLETION OF THE PROJECT AND IN ANY CASE NOT SOONER THAN 28 DAYS AFTER CONCRETE HAS BEEN PLACED, EXAMINE CONCRETE FLOOR SURFACES AND REPAIR ALL MAJOR CRACKS IN THEM. ROUT CRACKS OUT WITH MECHANICAL ROUTER TO 13 MM (1/2") SQUARE APPROXIMATE CROSS SECTION, THEN CLEAN AND FILL CRACKS IN SAME MANNER AS SAW CUTS IN SLAB ON GRADE.

G. QUALITY CONTROL

- GENERAL
 - IMPLEMENT A SYSTEM OF QUALITY CONTROL TO ENSURE THAT THE MINIMUM STANDARDS SPECIFIED HEREIN ARE ATTAINED.
 - BRING TO THE ATTENTION OF THE CONSULTANT ANY DEFECTS IN THE WORK OR DEPARTURES FROM THE CONTRACT DOCUMENTS, WHICH MAY OCCUR DURING CONSTRUCTION. THE CONSULTANT WILL DECIDE UPON CORRECTIVE ACTION AND GIVE RECOMMENDATIONS IN WRITING.
 - THE CONSULTANT'S GENERAL REVIEW DURING CONSTRUCTION AND INSPECTION AND TESTING BY INDEPENDENT INSPECTION AND TESTING AGENCIES REPORTING TO THE CONSULTANT ARE BOTH UNDERTAKEN TO INFORM THE CLIENT OF THE CONTRACTOR'S PERFORMANCE AND SHALL IN NO WAY AUGMENT THE CONTRACTOR'S QUALITY CONTROL OR RELIEVE THE CONTRACTOR OF CONTRACTUAL RESPONSIBILITY.
- NOTIFICATION
 - PRIOR TO COMMENCING SIGNIFICANT SEGMENTS OF THE WORK, GIVE THE CONSULTANT AND INDEPENDENT INSPECTION AND TESTING COMPANIES APPROPRIATE NOTIFICATION (MINIMUM 24 HOURS) SO AS TO AFFORD THEM REASONABLE OPPORTUNITY TO REVIEW THE WORK. FAILURE TO MEET THIS REQUIREMENT MAY BE CAUSE FOR THE CONSULTANT TO CLASSIFY THE WORK AS DEFECTIVE.
- INSPECTION AND TESTING
 - THE CLIENT WILL APPOINT AN INDEPENDENT INSPECTION AND TESTING COMPANY TO MAKE INSPECTIONS OR PERFORM TESTS AS THE CLIENT DIRECTS. THE INDEPENDENT INSPECTION AND TESTING COMPANIES SHALL BE RESPONSIBLE ONLY TO THE CLIENT AND SHALL MAKE ONLY SUCH INSPECTIONS OR TESTS AS THE CLIENT MAY DIRECT. AUTHORIZED INSPECTION AND TESTING SHALL BE PAID FOR BY THE OWNER.
- DEFECTIVE MATERIALS AND WORK
 - WHERE EVIDENCE EXISTS THAT DEFECTIVE WORK HAS OCCURRED OR THAT WORK HAS BEEN CARRIED OUT INCORPORATING DEFECTIVE MATERIALS, THE CONSULTANT MAY HAVE TESTS, INSPECTIONS OR SURVEYS PERFORMED, ANALYTICAL CALCULATIONS OF STRUCTURAL STRENGTH MADE, AND THE LIKE, IN ORDER TO HELP DETERMINE WHETHER THE WORK MUST BE CORRECTED OR REPLACED. TESTS, INSPECTIONS, SURVEYS, OR CALCULATIONS CARRIED OUT UNDER THESE CIRCUMSTANCES WILL BE MADE AT THE CONTRACTOR'S EXPENSE, REGARDLESS OF THEIR RESULTS, WHICH MAY BE SUCH THAT, IN THE CONSULTANT'S OPINION, THE WORK MAY BE ACCEPTABLE.
 - ALL TESTING SHALL BE CONDUCTED IN ACCORDANCE WITH THE REQUIREMENTS OF THE 2012 ONTARIO BUILDING CODE, EXCEPT WHERE THIS WOULD, IN THE CONSULTANT'S OPINION, CAUSE UNDUE DELAY OR GIVE RESULTS NOT REPRESENTATIVE OF THE REJECTED MATERIAL IN PLACE. IN THIS CASE, THE TESTS SHALL BE CONDUCTED IN ACCORDANCE WITH THE STANDARDS GIVEN BY THE CONSULTANT.
 - MATERIALS OR WORK, WHICH FAIL TO MEET SPECIFIED REQUIREMENTS, MAY BE REJECTED BY THE CONSULTANT WHENEVER FOUND AT ANY TIME PRIOR TO FINAL ACCEPTANCE OF THE WORK REGARDLESS OF PREVIOUS INSPECTION. IF REJECTED, DEFECTIVE MATERIALS OR WORKMANSHIP SHALL BE PROMPTLY REMOVED AND REPLACED OR REPAIRED TO THE SATISFACTION OF THE CONSULTANT, AT NO EXPENSE TO THE OWNER.



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3	Issued for Tender Addendum 1	2024.09.16
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Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: R.RASALINGAM / S.SHUM
Checked by: W.PETER
Original Issue Date: 2024.07.30
Project No: 24.065
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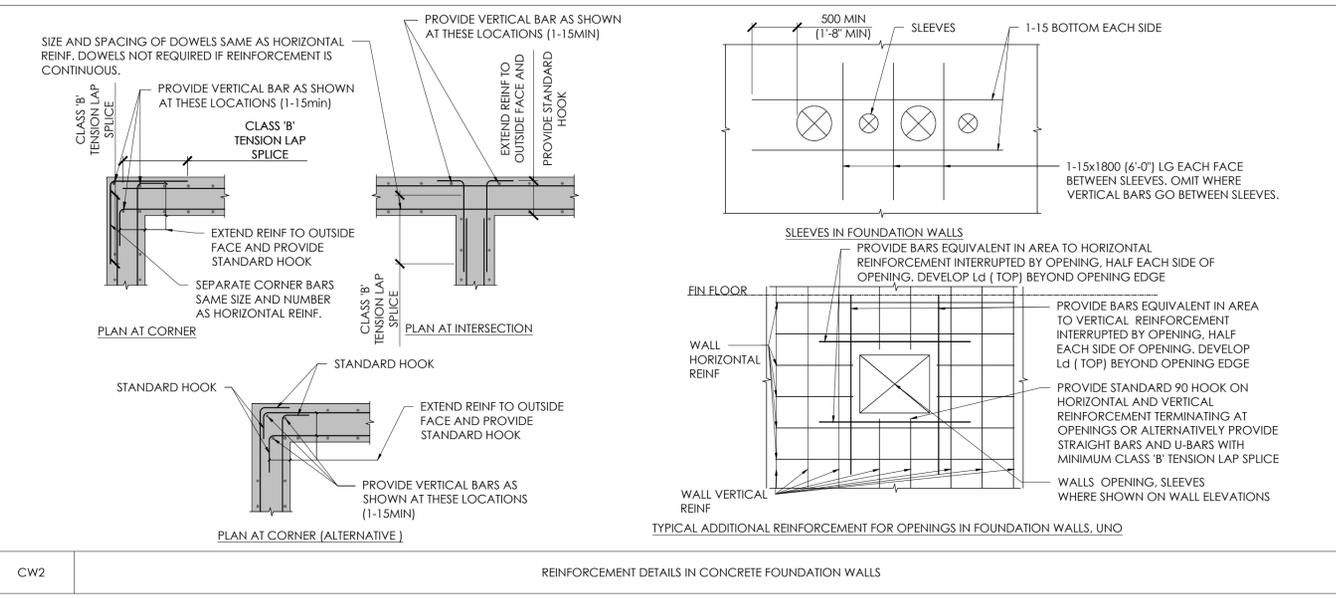
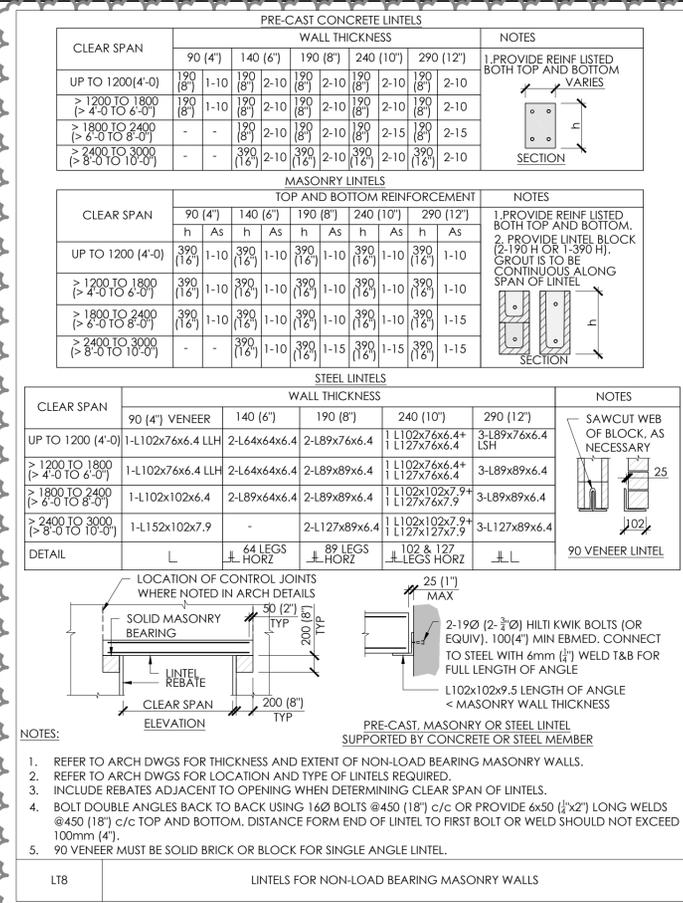
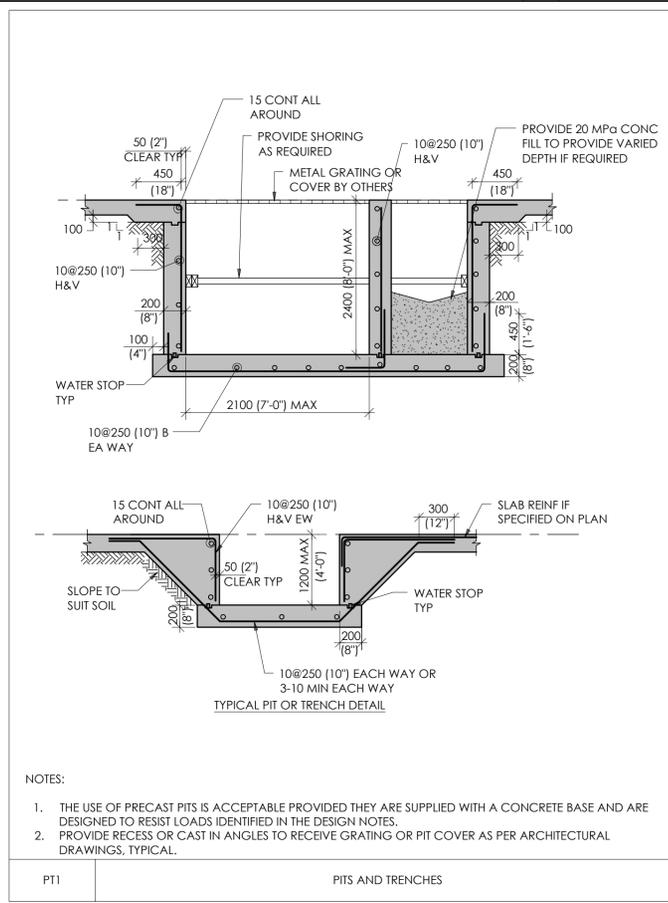
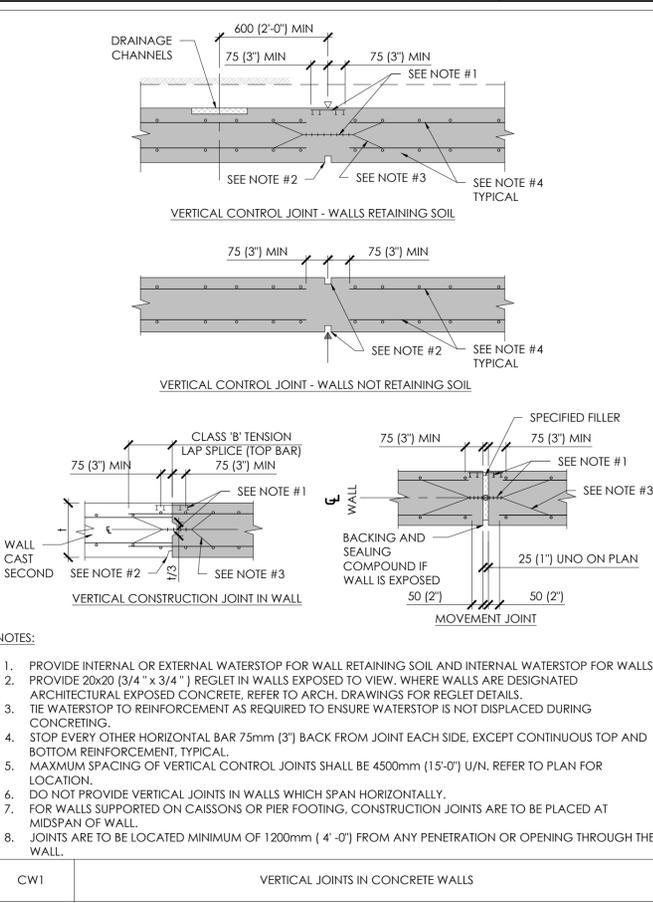


Sheet Title:

TYPICAL DETAILS

Drawing No.

S011



YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

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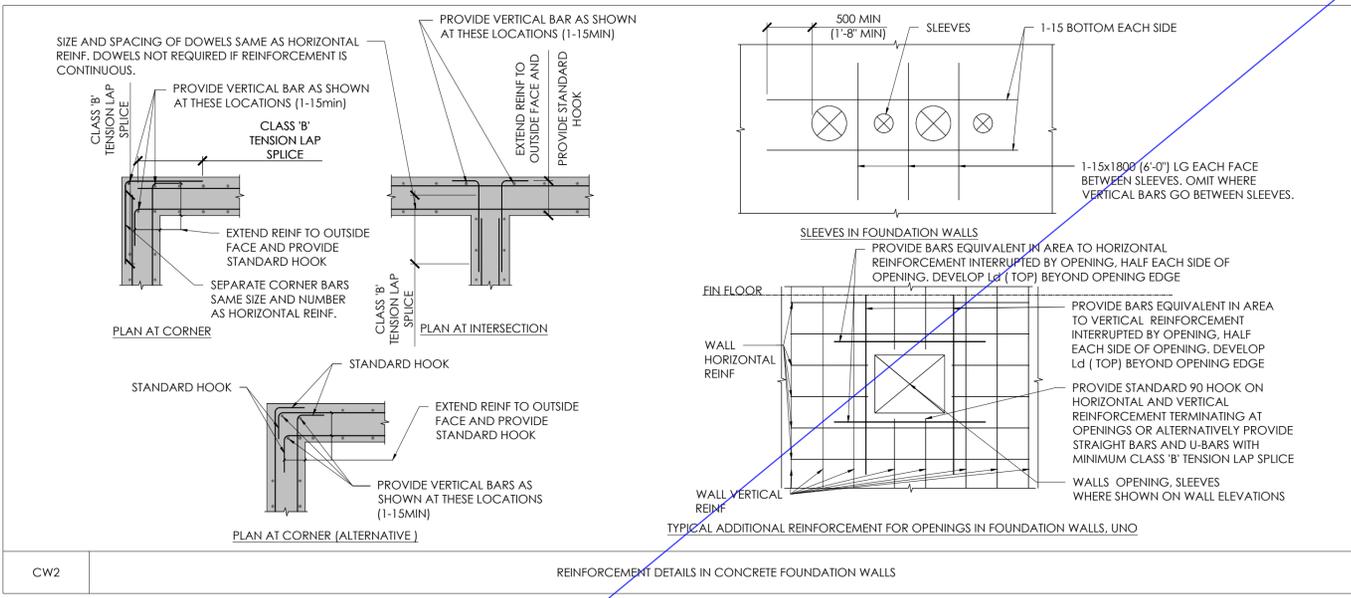
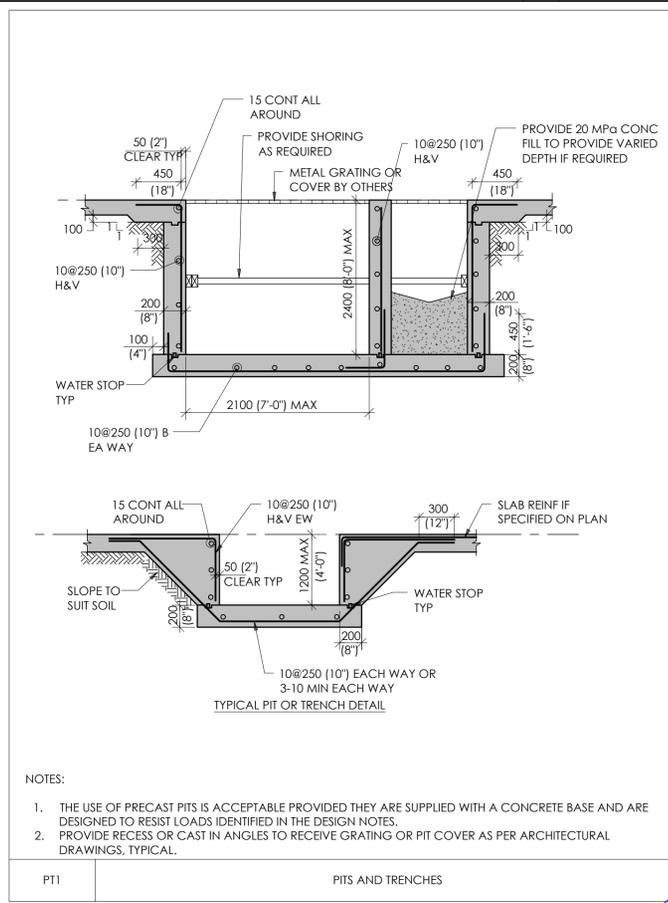
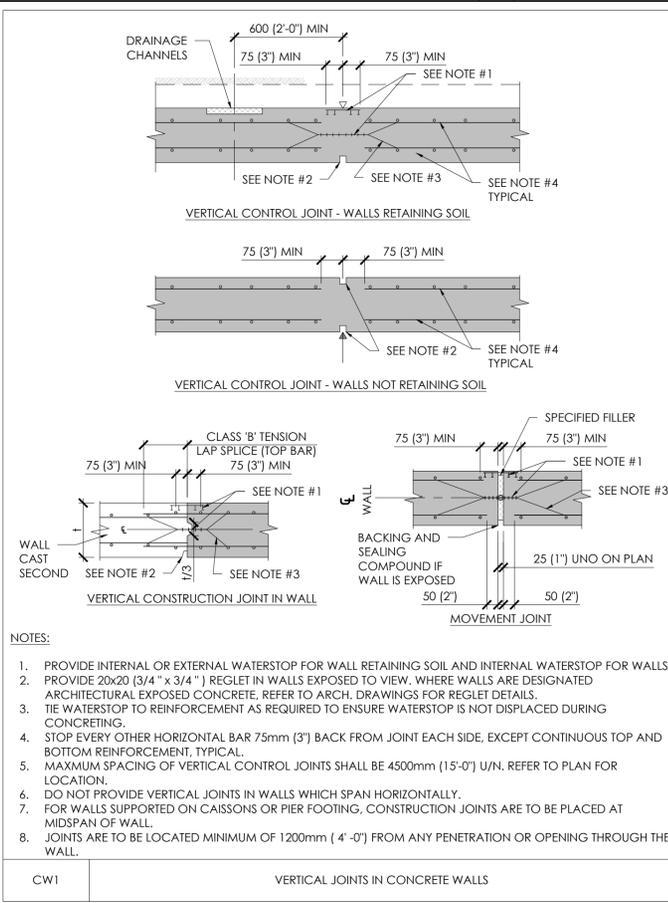


Sheet
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TYPICAL DETAILS

Drawing
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S011



YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan



NO.	ISSUED	DATE
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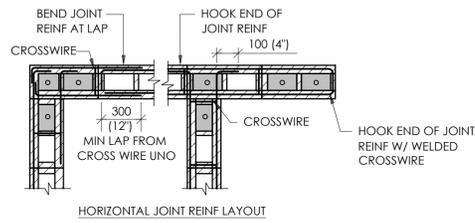
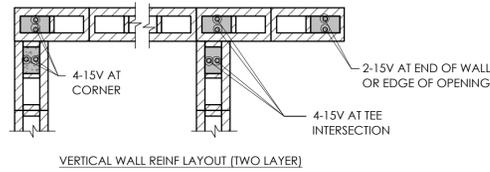
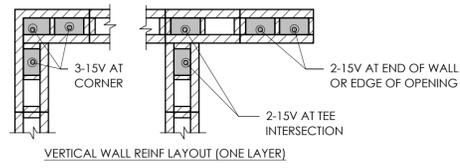


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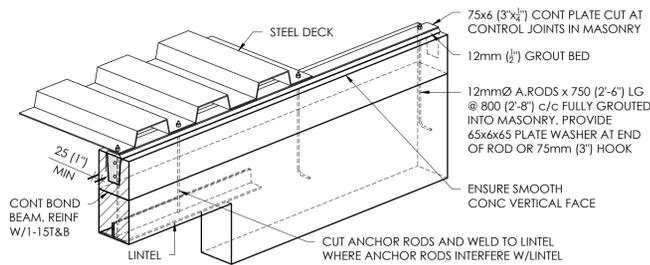
S012



NOTES:

1. AT INTERSECTIONS, BOND WALLS TOGETHER BY INTERLOCKING ALTERNATE COURSES (RUNNING BOND), UNLESS NOTED OTHERWISE.
2. FOR ADDITIONAL REINFORCEMENT AT OPENINGS, REFER TO TYPICAL DETAIL M15.
3. WHERE HORIZONTAL REINFORCING BARS ARE SPECIFIED, PROVIDE CLASS 'B' TENSION LAP SPLICE AT CORNERS AND WALL INTERSECTIONS.

CW3 REINFORCEMENT FOR MASONRY WALLS



SD3 STEEL DECK AT ROOF (MASONRY FRAMING)



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350 GARFIELD WRIGHT BOULEVARD
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Key Plan



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2	Issued for Tender Addendum 14	2024.11.27
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Issue

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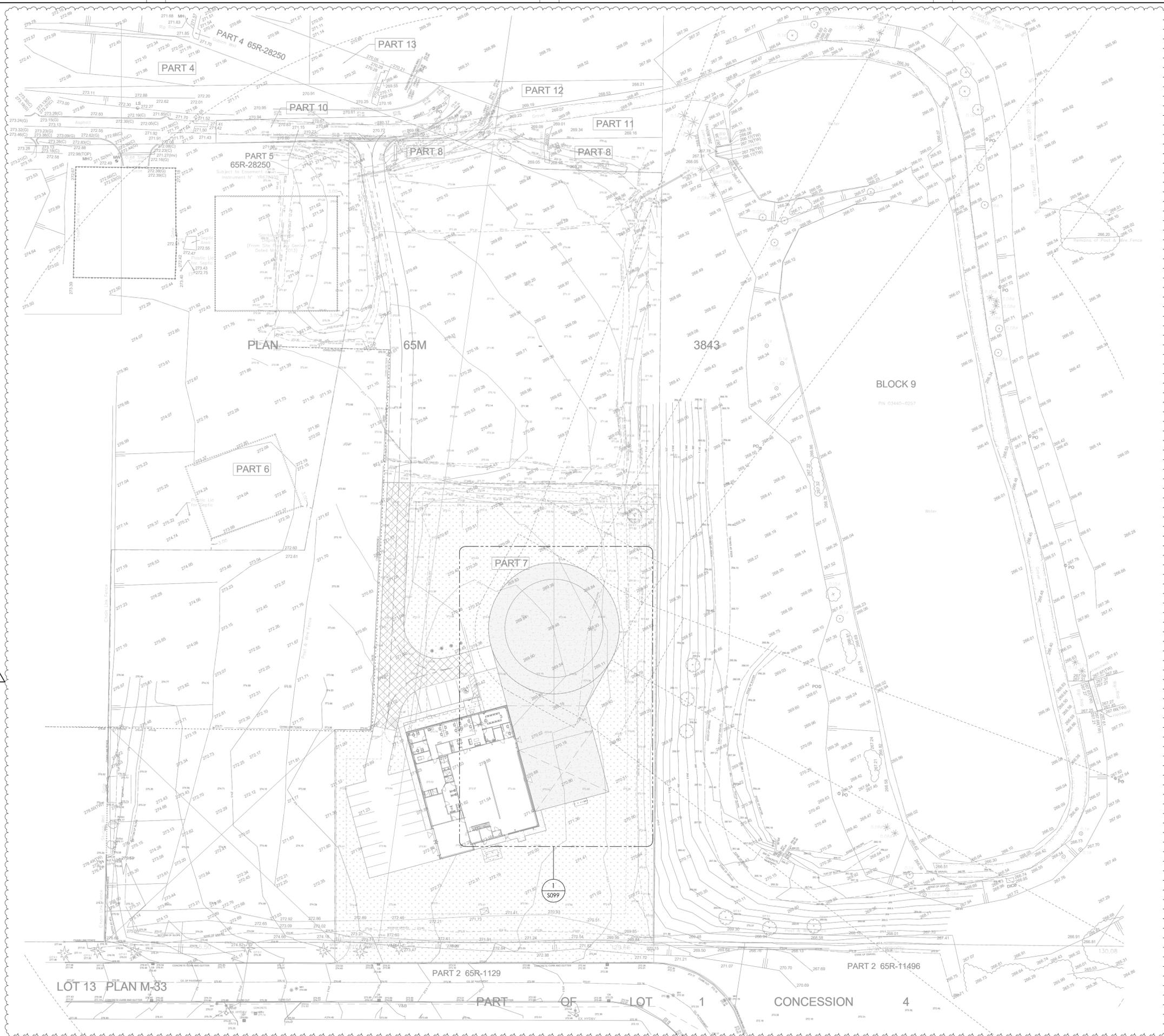


Sheet Title:

OVERALL SITE PLAN

Drawing No.

S098



1 OVERALL SITE PLAN
S098
1 : 500



133 Richmond St W, Suite 302
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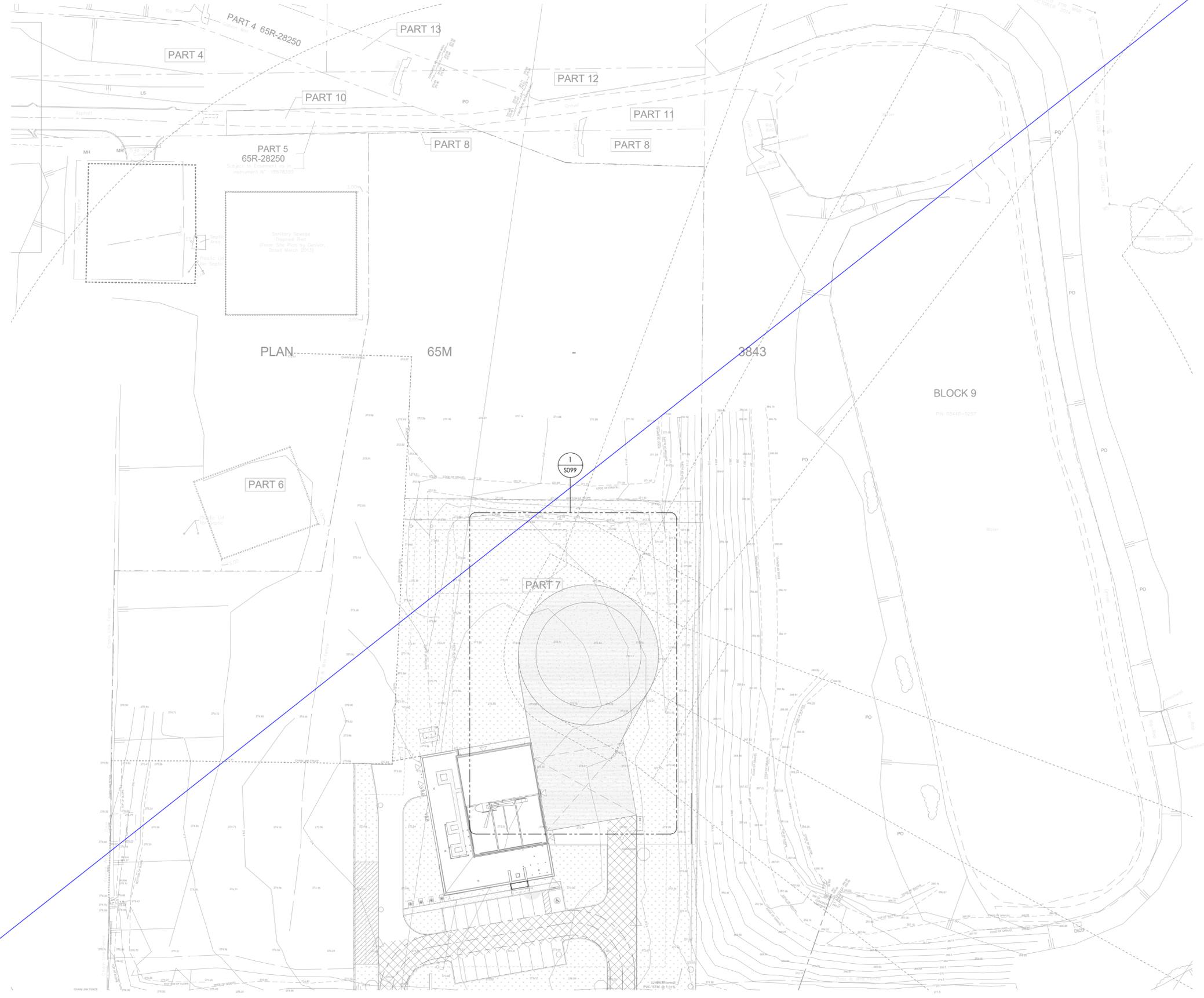


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1 OVERALL SITE PLAN
1 : 500

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350 GARFIELD WRIGHT BOULEVARD
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3	Issued for Tender Addendum 7	2024.10.03
2	Issued for Tender Addendum 2	2024.09.18
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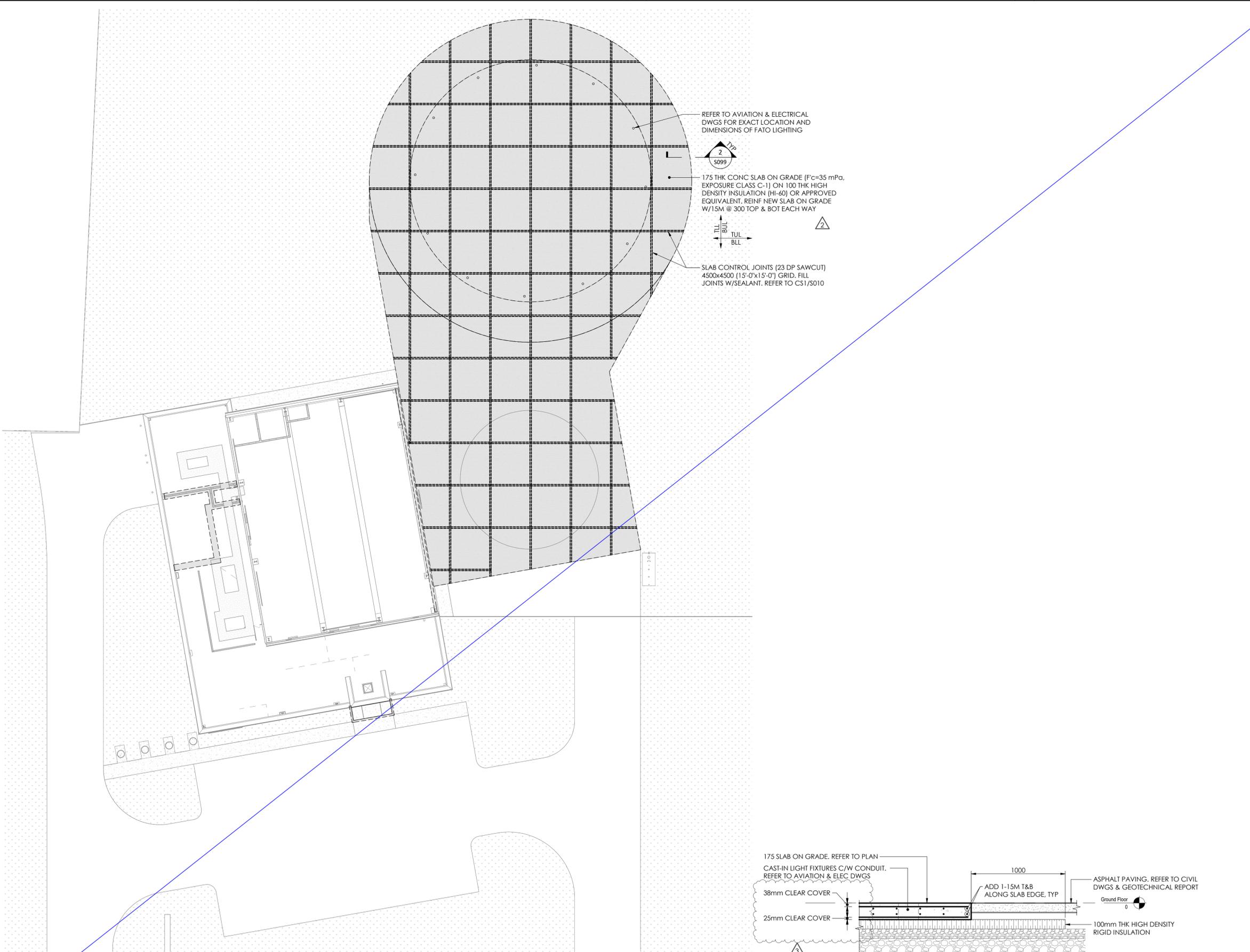


Sheet Title:

ENLARGED SITE PLAN

Drawing No.

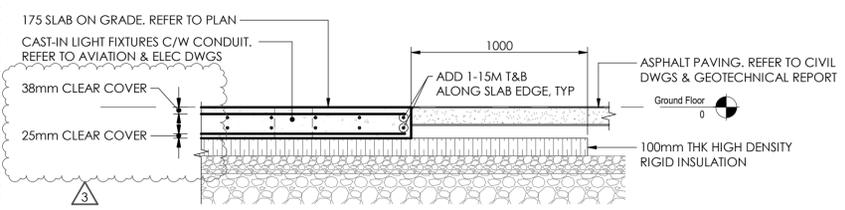
S099



REFER TO AVIATION & ELECTRICAL DWGS FOR EXACT LOCATION AND DIMENSIONS OF FATO LIGHTING

175 THK CONC SLAB ON GRADE ($F_c=35$ MPa, EXPOSURE CLASS C-1) ON 100 THK HIGH DENSITY INSULATION (HI-60) OR APPROVED EQUIVALENT. REINF NEW SLAB ON GRADE W/15M @ 300 TOP & BOT EACH WAY

SLAB CONTROL JOINTS (23 DP SAWCUT) 4500x4500 (15'-0"x15'-0") GRID. FILL JOINTS W/SEALANT. REFER TO CS1/S010



1 SITE PLAN
S099
1 : 200

2
S099
1 : 20

NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLOPE FOR NEW SLAB ON GRADE.
- COORDINATE SLAB REINFORCEMENT WITH IN-SLAB HEATING IF/AS REQUIRED WITH THE MEP DRAWINGS.

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan



NO.	ISSUED	DATE
2	Issued for Tender Addendum 2	2024.09.18
1	Issued for Tender Addendum 1	2024.09.16

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: R.RASALINGAM / S.SHUM
Checked by: W.PETER
Original Issue Date: 2024.07.30
Project No: 24.065
Scale: As indicated

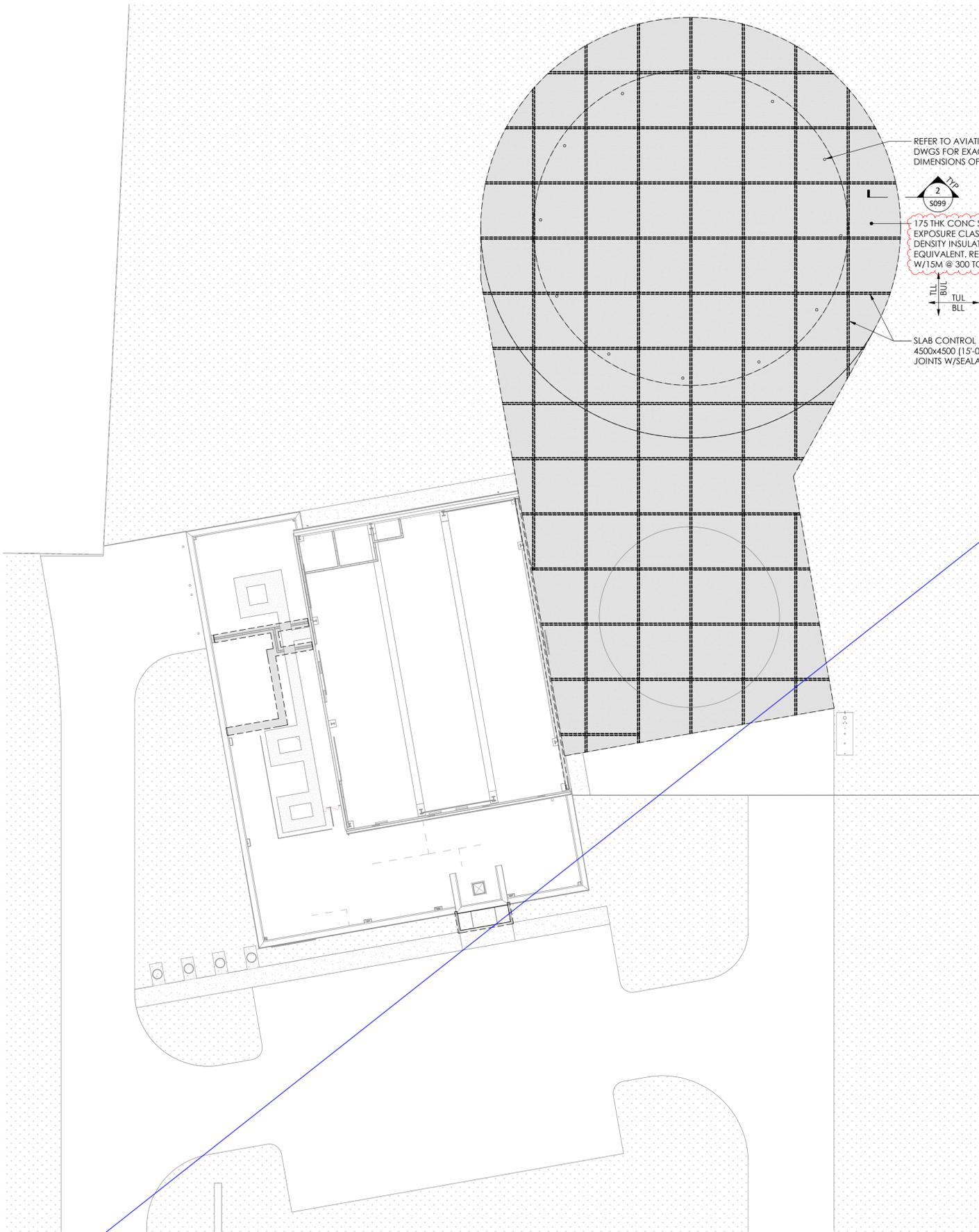


Sheet Title:

ENLARGED SITE PLAN

Drawing No.

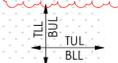
S099



REFER TO AVIATION & ELECTRICAL DWGS FOR EXACT LOCATION AND DIMENSIONS OF FATO LIGHTING



175 THK CONG SLAB ON GRADE (F_c=35 MPa, EXPOSURE CLASS C-1) ON 100 THK HIGH DENSITY INSULATION (HI-60) OR APPROVED EQUIVALENT. REINF NEW SLAB ON GRADE W/15M @ 300 TOP & BOT EACH WAY



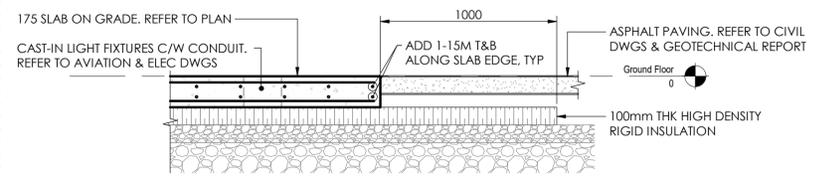
SLAB CONTROL JOINTS (23 DP SAWCUT) 4500x4500 (15'-0"x15'-0") GRID. FILL JOINTS W/SEALANT. REFER TO CS1/S010

1 SITE PLAN
S099

1 : 200

NOTES:

- REFER TO ARCHITECTURAL DRAWINGS FOR TOP OF CONCRETE SLOPE FOR NEW SLAB ON GRADE.
- COORDINATE SLAB REINFORCEMENT WITH IN-SLAB HEATING IF/AS REQUIRED WITH THE MEP DRAWINGS.



2
S099

1 : 20

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350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan



NO.	ISSUED	DATE
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Issues

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Project No: 24.065
Scale: As indicated



Sheet Title:

ENLARGED SITE PLAN

Drawing No.

S099

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1 SITE PLAN
1 : 200

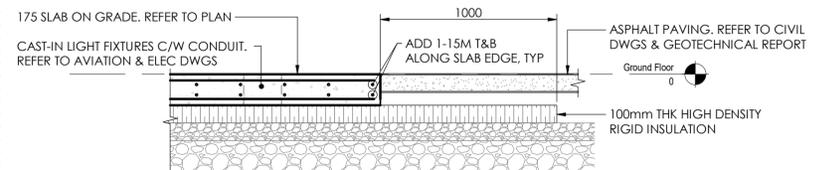
REFER TO AVIATION & ELECTRICAL DWGS FOR EXACT LOCATION AND DIMENSIONS OF FATO LIGHTING



175 THK CONC SLAB ON GRADE ON 100 THK HIGH DENSITY INSULATION (HI-60) OR APPROVED EQUIVALENT. REINF NEW SLAB ON GRADE W/15M @ 300 TOP & BOT EACH WAY



SLAB CONTROL JOINTS (23 DP SAWCUT) 4500x4500 (15'-0"x15'-0") GRID. FILL JOINTS W/SEALANT. REFER TO CS1/S010



2
S099
1 : 20

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan



NO.	ISSUED	DATE
3	Issued for Tender Addendum 1	2024.09.16
2	Issued for Tender	2024.09.09
1	Issued for Permit	2024.07.30

Issues

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Scale: As indicated



Sheet Title:

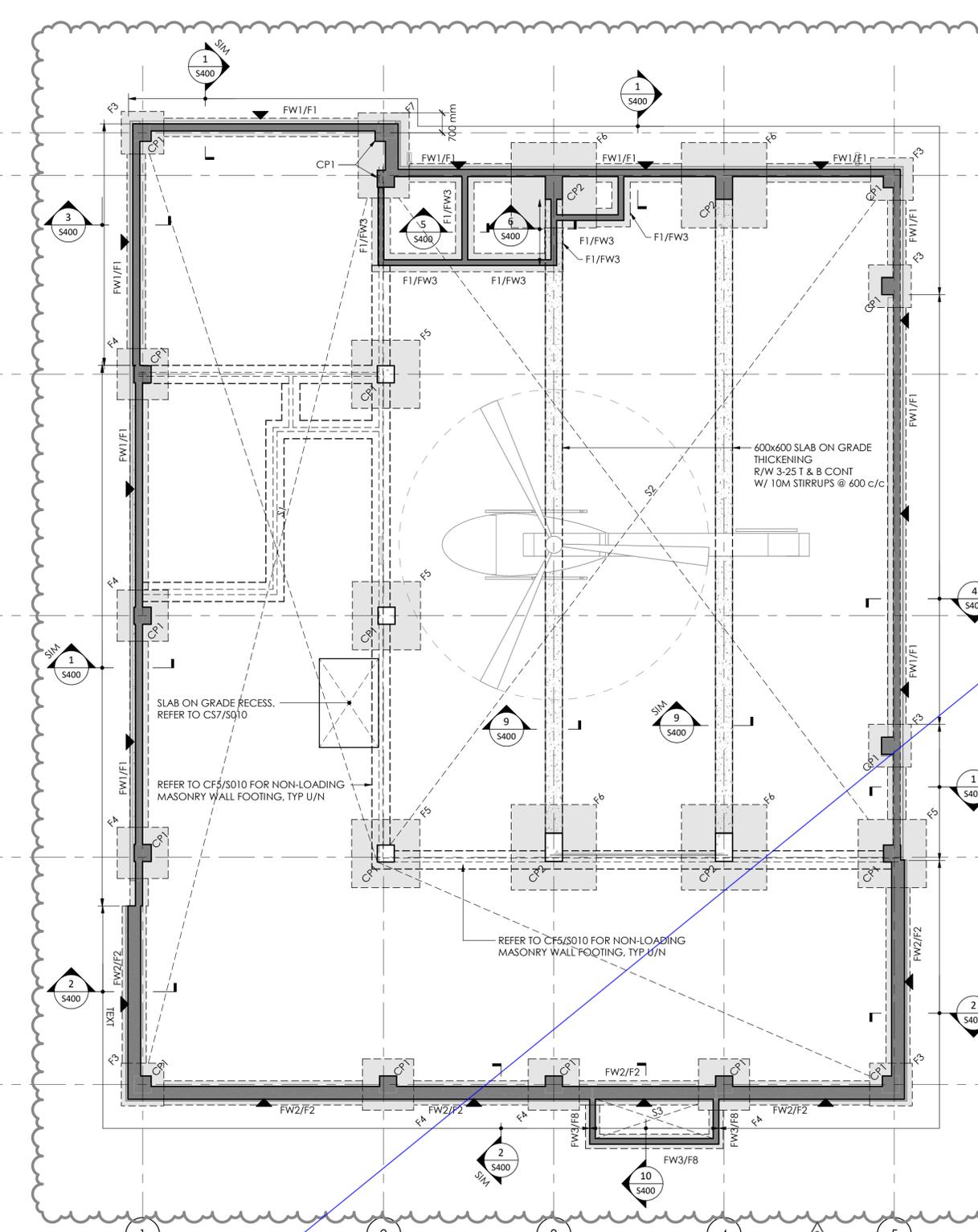
FOUNDATION PLAN

Drawing No.

S100

FOUNDATION SCHEDULE			
TAG	MEMBER SIZE	REINFORCEMENT	COMMENTS
F1	650mm x 250mm DP CONC FOOTING	3-15M CONT BUL IN LONG DIRECTION, 15M @ 400 C/C BLL IN SHORT DIRECTION	<varies>
F2	850mm x 250mm DP CONC FOOTING	4-15M CONT BUL IN LONG DIRECTION, 15M @ 400 C/C BLL IN SHORT DIRECTION	LAP HORIZ BARS AT CORNERS & INTERSECTION
F3	1500mm x 1500mm x 450mm DP CONC FOOTING	6-15 BEW (HH)	
F4	1800mm x 1800mm x 450mm DP CONC FOOTING	8-15 BEW (HH)	
F5	2400mm x 2400mm x 450mm DP CONC FOOTING	12-15 BEW (HH)	
F6	3000mm x 3000mm x 600mm DP CONC FOOTING	15-15 BEW (HH)	
F7	1500mm x 3000mm x 450mm DP CONC FOOTING	15-15M CONT BUL IN LONG DIRECTION, 15M @ 400 C/C BLL IN SHORT DIRECTION	
F8	500mm x 200mm DP CONC FOOTING	2-15M CONT	
FW1	250mm CONCRETE FOUNDATION WALL	15M @ 300 C/C VERT & HORIZ EACH FACE, PROVIDE 4-15 VERT AT WALL INTERSECTION & CORNERS	LAP HORIZ BARS AT CORNERS & INTERSECTION
FW2	450mm CONCRETE FOUNDATION WALL	15M @ 300 C/C VERT & HORIZ EACH FACE, PROVIDE 4-15 VERT AT WALL INTERSECTION & CORNERS	LAP HORIZ BARS AT CORNERS & INTERSECTION
FW3	200mm CONC WALL	15M @ 400 C/C VERT & HORIZ EACH FACE, PROVIDE 4-15 VERT AT WALL INTERSECTION & CORNERS	
MM1	150mm MASONRY WALL	15M @ 400 VERT IN FULLY GROUTED CELL, PROVIDE MATCHING DOWELS @ 1200 LG, EXTEND FROM CONC WALL BELOW. REFER TO CW3/S011	PROVIDE CONT 30mm DP BOND BEAM R/W 1-5M (8) AT TOP OF MASONRY WALL
MM2	190 (8) MASONRY WALL	15M @ 400 VERT IN FULLY GROUTED CELL, PROVIDE MATCHING DOWELS @ 1200 LG, EXTEND FROM CONC WALL BELOW. REFER TO CW3/S011	PROVIDE CONT 30mm DP BOND BEAM R/W 1-5M (8) AT TOP OF MASONRY WALL
CP1	800mm x 600mm CONCRETE CAP	14-20V W/3-10M TIES @ 75 C/C AT TOP & 10M TIES @ 300 IN REMAINING	REFER TO ARCH DWGS FOR RIGID INSULATION
CP2	600mm W x 1000mm L CONCRETE CAP	14-20V W/3-10M TIES @ 75 C/C AT TOP & 10M TIES @ 300 IN REMAINING	REFER TO ARCH DWGS FOR RIGID INSULATION
S1	125 SLAB ON GRADE ATOP 75mm THK RIGID INSULATION	R/W 1 LAYER OF 152x152 MW18.7 x MW18.7 WWF	REFER TO ARCH DWGS FOR RIGID INSULATION
S2	175 SLAB ON GRADE ATOP 75mm THK RIGID INSULATION	R/W 1 LAYER OF 152x152 MW18.7 x MW18.7 WWF	REFER TO ARCH DWGS FOR RIGID INSULATION
S3	200 SLAB ON GRADE ON VOID FORM	R/W 15M @ 250 TOP & BOT EACH WAY	REFER TO ARCH DWGS FOR RIGID INSULATION

COLUMN SCHEDULE				
COLUMN ID	V MAX (kN)	V MIN (kN)	H MAX (kN)	H MIN (kN)
A-1	29.5	-5.7	1.5	-2.0
A-2	38.6	-4.3	1.6	-2.1
B-2	11.1	-4.1	2.4	-3.1
B-3	98.0	-36.0	46.0	-10.6
B-4	98.0	-36.0	46.0	-10.6
B-5	61.8	-23.7	30.2	-3.7
B/C-5	1.7	-1.1	6.9	-9.8
C-1	64.7	-4.6	4	-3.5
C-2	117.3	-13.1	9.1	-12.8
D-1	64.7	-4.6	4	-3.5
D-2	120.0	-14.0	10.0	-14.0
D/E-5	1.7	-1.1	6.9	-9.8
E-1	61.9	-7.0	3.9	-4.1
E-2	196.8	-15.9	4.3	-5.5
E-3	177.1	-38.1	12.0	-44.7
E-4	177.1	-38.1	12.0	-44.7
E-5	108.5	-10.2	29.3	-29.6
F-1	61.9	-7.0	3.9	4.1
F-2	66.8	-5.7	3.5	-3.6
F-3	55.6	-2.3	2.9	-3.0
F-4	55.6	-2.3	2.9	-3.0
F-5	30.8	-2.5	1.6	-1.7



1 FOUNDATION PLAN

S100
1 : 100

PLAN NOTES:

- TOP OF FINISHED GROUND FLOOR (SLAB ON GRADE) IS AT ELEVATION 0mm EXCEPT AS CROSSED AND NOTED. ELEVATIONS FOR CROSSED AND NOTED ARE TO BE READ FROM THE FINISHED GROUND FLOOR ELEVATION 0mm.
- FOUND UNDERSIDE OF COLUMN & WALL FOOTINGS AT ELEVATION 1650mm BELOW FINISHED GROUND FLOOR ELEVATION UNLESS NOTED ON PLAN OTHERWISE.
- CENTER ALL CAPS AND FOOTINGS UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR SLOPE TO DRAINS. MAINTAIN SLAB THICKNESS SHOWN.
- PROVIDE CONTROL JOISTS AT LOCATION SHOWN THIS ON PLAN.
- REFER TO TYPICAL DETAILS ON DRAWING S010 & S012.
- REFER TO GENERAL NOTES ON DRAWING S001.
- REFER TO COLUMN SCHEDULE FOR THE COLUMN REACTIONS. THE PRELIMINARY COLUMN REACTIONS SHOWN IN THE SCHEDULE ARE FACTORED LOADS & PROVIDED BY THE PREFAB SUPPLIER'S ENGINEER. COORDINATE WITH PREFAB SUPPLIER ENGINEER FOR FINAL COLUMN REACTIONS.
- EARTHQUAKE LOADS:
 - THE EARTHQUAKE LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE EQUIVALENT STATIC FORCE PROCEDURE.
 - EARTHQUAKE IMPORTANCE FACTOR, BASED ON TABLE 4.1.8.5 OF 2012 OBC CATEGORY - POST-DISASTER (IE = 1.5 (ULS))
 - SEISMIC HAZARD PARAMETER FOR TOWN OF EAST GWILLIMBURY $S_a(0.2) = 0.132, S_a(0.5) = 0.085, S_a(1.0) = 0.050, S_a(2.0) = 0.026, PGA = 0.081$
 - SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE: CLASS = C

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT
BOULEVARD
TOWN OF EAST GWILLIMBURY

Key
Plan

NO.	ISSUED	DATE
2	Issued for Tender	2024.09.09
1	Issued for Permit	2024.07.30
NO.	ISSUED	DATE

Issue

All measurements are to be checked and verified on site by the contractor before proceeding with work

Do not scale drawings

Drawn by: R.RASALINGAM
Checked by: W.PETER
Original Issue Date: 2024.07.30
Project No: 24.065
Scale: As indicated

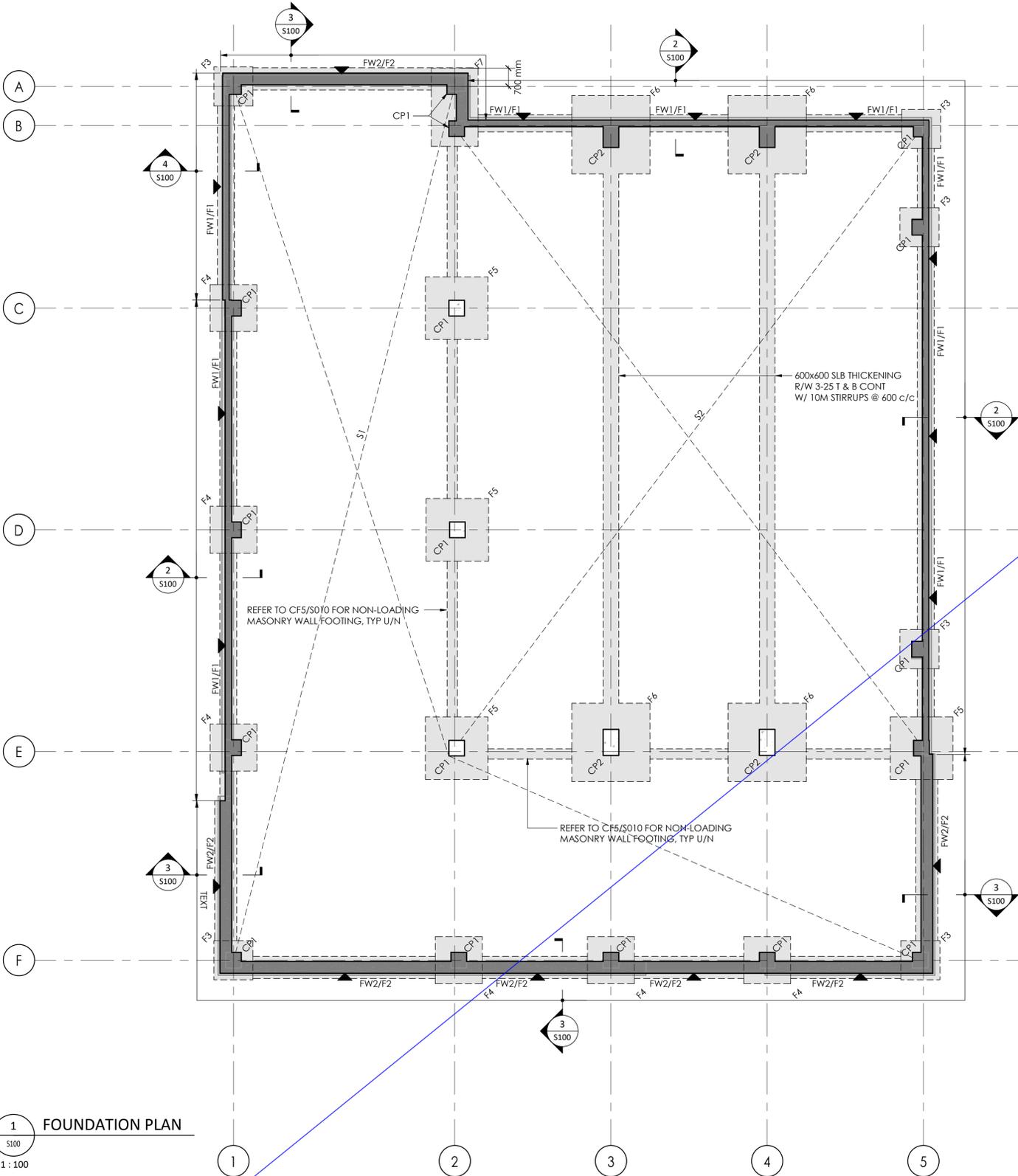


Sheet
Title:

FOUNDATION PLAN

Drawing
No.

S100



1 FOUNDATION PLAN

1 : 100
FOUNDATIONS PLAN NOTES:

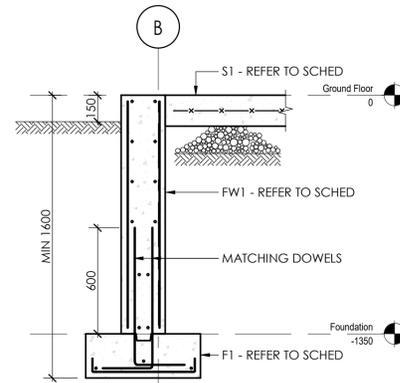
- TOP OF FINISHED GROUND FLOOR (SLAB ON GRADE) IS AT ELEVATION 0mm EXCEPT AS CROSSED AND NOTED. ELEVATIONS FOR CROSSED AND NOTED ARE TO BE READ FROM THE FINISHED GROUND FLOOR ELEVATION 0mm.
- FOUND UNDERSIDE OF COLUMN & WALL FOOTINGS AT ELEVATION 1650mm BELOW FINISHED GROUND FLOOR ELEVATION UNLESS NOTED ON PLAN OTHERWISE.
- CENTER ALL CAPS AND FOOTINGS UNDER COLUMNS AND WALLS UNLESS NOTED OTHERWISE.
- SEE ARCHITECTURAL DRAWINGS FOR SLOPE TO DRAINS. MAINTAIN SLAB THICKNESS SHOWN.
- PROVIDE CONTROL JOISTS AT LOCATION SHOWN THIS PLAN.
- REFER TO TYPICAL DETAILS ON DRAWING S010 & S011.
- REFER TO GENERAL NOTES ON DRAWING S001.
- REFER TO COLUMN SCHEDULE FOR THE COLUMN REACTIONS. THE COLUMN REACTIONS SHOWN IN THE SCHEDULE ARE FACTORED LOADS & PROVIDED BY THE PREFAB SUPPLIER'S ENGINEER.
- EARTHQUAKE LOADS:
 - THE EARTHQUAKE LOADS HAVE BEEN CALCULATED IN ACCORDANCE WITH THE EQUIVALENT STATIC FORCE PROCEDURE.
 - EARTHQUAKE IMPORTANCE FACTOR, BASED ON TABLE 4.1.8.5 OF 2012 OBC CATEGORY - POST-DISASTER IE = 1.5 (ULS)
 - SEISMIC HAZARD PARAMETER FOR TOWN OF EAST GWILLIMBURY $S_a(0.2) = 0.132$, $S_a(0.5) = 0.085$, $S_a(1.0) = 0.050$, $S_a(2.0) = 0.026$, $PGA = 0.081$
 - SITE CLASSIFICATION FOR SEISMIC SITE RESPONSE: CLASS = C

FOUNDATION SCHEDULE

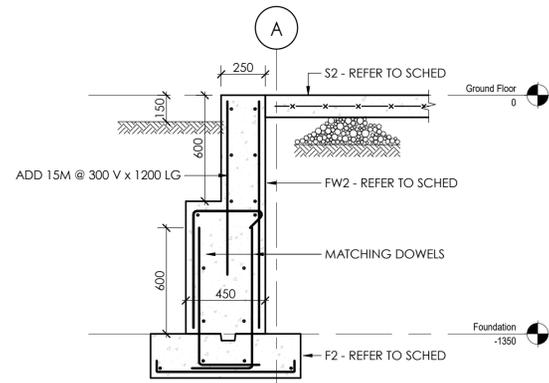
TAG	MEMBER SIZE	REINFORCEMENT	COMMENTS
F1	450mm x 250mm DP CONCRETE FOOTING	3-15M CONT BUL IN LONG DIRECTION; 15M @ 400 c/c BLL IN SHORT DIRECTION	LAP HORIZ BARS AT CORNERS & INTERSECTION
F2	850mm x 250mm DP CONCRETE FOOTING	4-15M CONT BUL IN LONG DIRECTION; 15M @ 400 c/c BLL IN SHORT DIRECTION	LAP HORIZ BARS AT CORNERS & INTERSECTION
F3	1500mm x 1500mm x 450mm DP CONCRETE FOOTING	4-15 BEW (HH)	
F4	1800mm x 1800mm x 450mm DP CONCRETE FOOTING	8-15 BEW (HH)	
F5	2400mm x 2400mm x 450mm DP CONCRETE FOOTING	12-15 BEW (HH)	
F6	3000mm x 3000mm x 450mm DP CONCRETE FOOTING	15-15 BEW (HH)	
F7	1800mm W x 3000mm L x 450mm DP CONCRETE FOOTING	12-15M CONT BUL IN SHORT DIRECTION (HH); 4-15M CONT BUL IN LONG DIRECTION (HH)	LAP HORIZ BARS AT CORNERS & INTERSECTION
FW1	250mm CONCRETE FOUNDATION WALL	15M @ 300 c/c VERT & HORIZ EACH FACE. PROVIDE 4-15 VERT AT WALL INTERSECTION	LAP HORIZ BARS AT CORNERS & INTERSECTION
FW2	450mm CONCRETE FOUNDATION WALL	15M @ 300 c/c VERT & HORIZ EACH FACE. PROVIDE 4-15 VERT AT WALL INTERSECTION. ALSO REFER TO S3200	LAP HORIZ BARS AT CORNERS & INTERSECTION
CP1	600mm x 600mm CONCRETE CAP	12-20V W/3-10M TIES @ 75 c/c AT TOP & 10M TIES @ 300 IN REMAINING	
CP2	600mm W x 1000mm L CONCRETE CAP	14-20V W/3-10M TIES @ 75 c/c AT TOP & 10M TIES @ 300 IN REMAINING	
S1	125 SLAB ON GRADE	R/W 1 LAYER OF 152x152 MW18.7 x MW18.7 WWF	
S2	175 SLAB ON GRADE	R/W 2 LAYER OF 152x152 MW18.7 x MW18.7 WWF	

COLUMN SCHEDULE

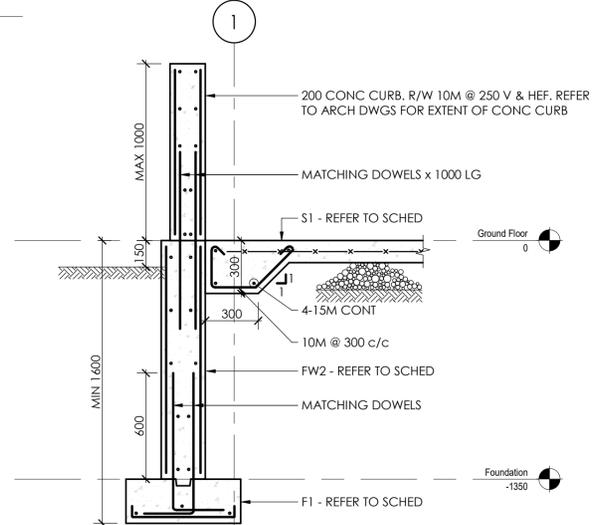
COLUMN ID	V MAX (kN)	V MIN (kN)	H MAX (kN)	H MIN (kN)
A-1	29.5	-5.7	1.5	-2.0
A-2	38.6	-4.3	1.6	-2.1
B-2	11.1	-4.1	2.4	-3.1
B-3	98.0	-36.0	46.0	-10.6
B-4	98.0	-36.0	46.0	-10.6
B-5	61.8	-23.7	30.2	-3.7
B/C-5	1.7	-1.1	6.9	-9.8
C-1	64.7	-4.6	4	-3.5
C-2	117.3	-13.1	9.1	-12.8
D-1	64.7	-4.6	4	-3.5
D-2	120.0	-14.0	10.0	-14.0
D/E-5	1.7	-1.1	6.9	-9.8
E-1	61.9	-7.0	3.9	-4.1
E-2	196.3	-15.9	4.3	-5.5
E-3	177.1	-38.1	12.0	-44.7
E-4	177.1	-38.1	12.0	-44.7
E-5	108.5	-10.2	29.3	-29.6
F-1	61.9	-7.0	3.9	4.1
F-2	66.8	-5.7	3.5	-3.6
F-3	55.6	-2.3	2.9	-3.0
F-4	55.6	-2.3	2.9	-3.0
F-5	30.8	-2.5	1.6	-1.7



2
S100
1 : 20



3
S100
1 : 20



4
S100
1 : 20

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan



NO.	ISSUED	DATE
2	Issued for Tender Addendum 14	2024.11.27
1	Issued for Tender Addendum 1	2024.09.16

Issues

All measurements are to be checked and verified on site by the contractor before proceeding with work

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Checked by: W.PETER
Original Issue Date: 2024.10.03
Project No: 24.065
Scale: 1 : 100

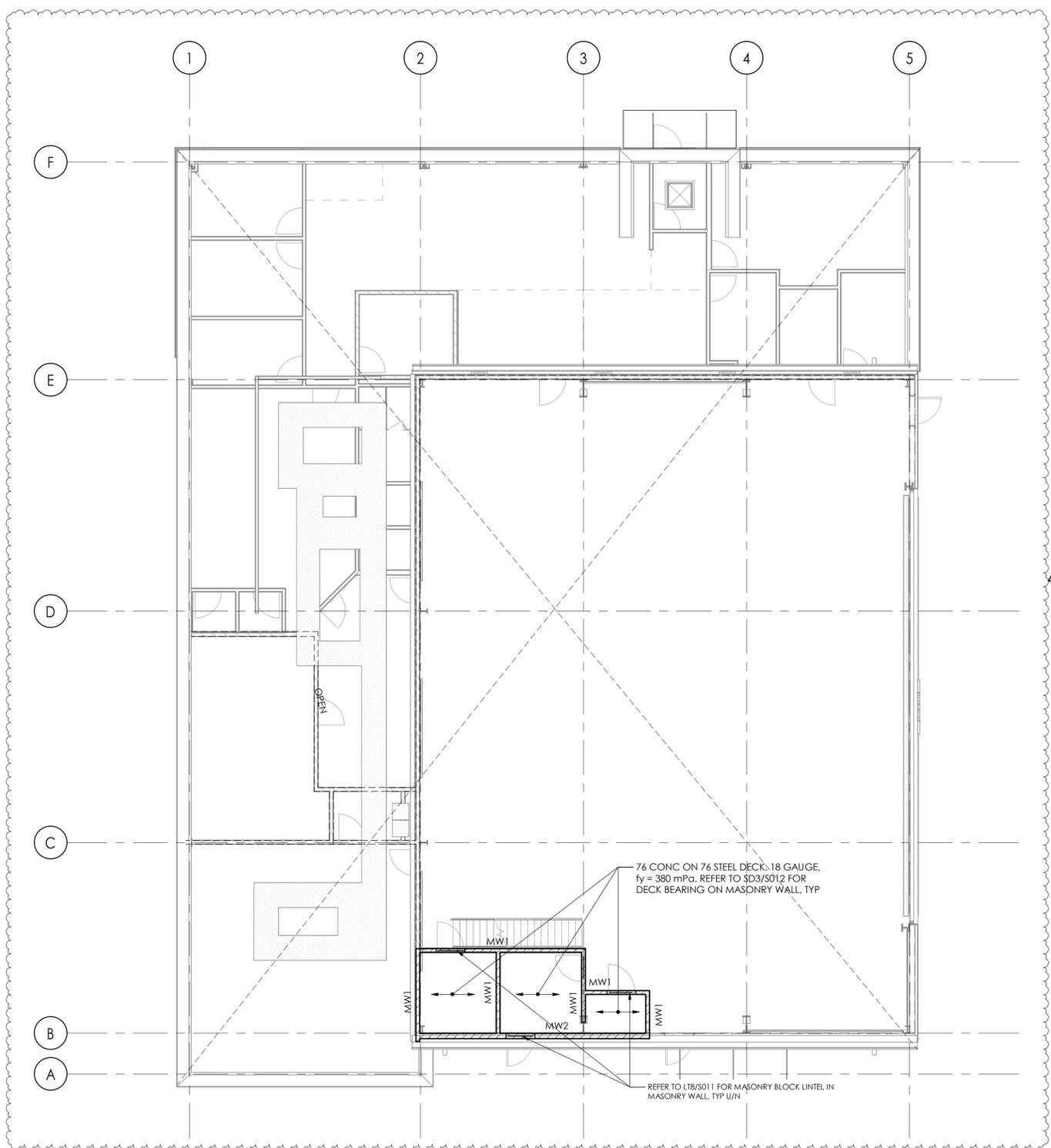


Sheet Title:

MEZZANINE FLOOR PLAN

Drawing No.

S200



1 MEZZANINE FLOOR PLAN

S200
1 : 100

PLAN NOTES:

- ALL FRAMING SHOWN IS LOOKING DOWN.
- REFER TO ARCHITECTURAL DRAWINGS FOR THE TIP OF MEZZANINE FLOOR STRUCTURAL SLAB ELEVATION.
- THE UNFACTORED DESIGN LOAD FOR THE MEZZANINE FLOOR ARE:
 - A. LIVE LOAD = 3.6 kPa
 - B. SUPERIMPOSED DEAD LOADS (SDL) = 1.25 kPa
 - C. SELF-WEIGHT = 76mm CONCRETE ON 76mm STEEL DECK
- PROVIDE CONTINUOUS 6mm THICK BENT PLATE EDGE ANGLE ALL AROUND PERIMETER.
- ALL STRUCTURAL STEEL & ITS CONNECTION HARDWARES EXPOSED TO WEATHER SHALL BE GALVANIZED IN ACCORDANCE WITH CSA G164.
- REFER TO TYPICAL DETAILS ON S010 TO S012.
- REFER TO GENERAL NOTES ON S001.

YRP HELICOPTER HANGAR

350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan



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Drawn by: R.RASALINGAM / S.SHUM
Checked by: W.PETER
Original Issue Date: 2024.10.03
Project No: 24.065
Scale: 1 : 20

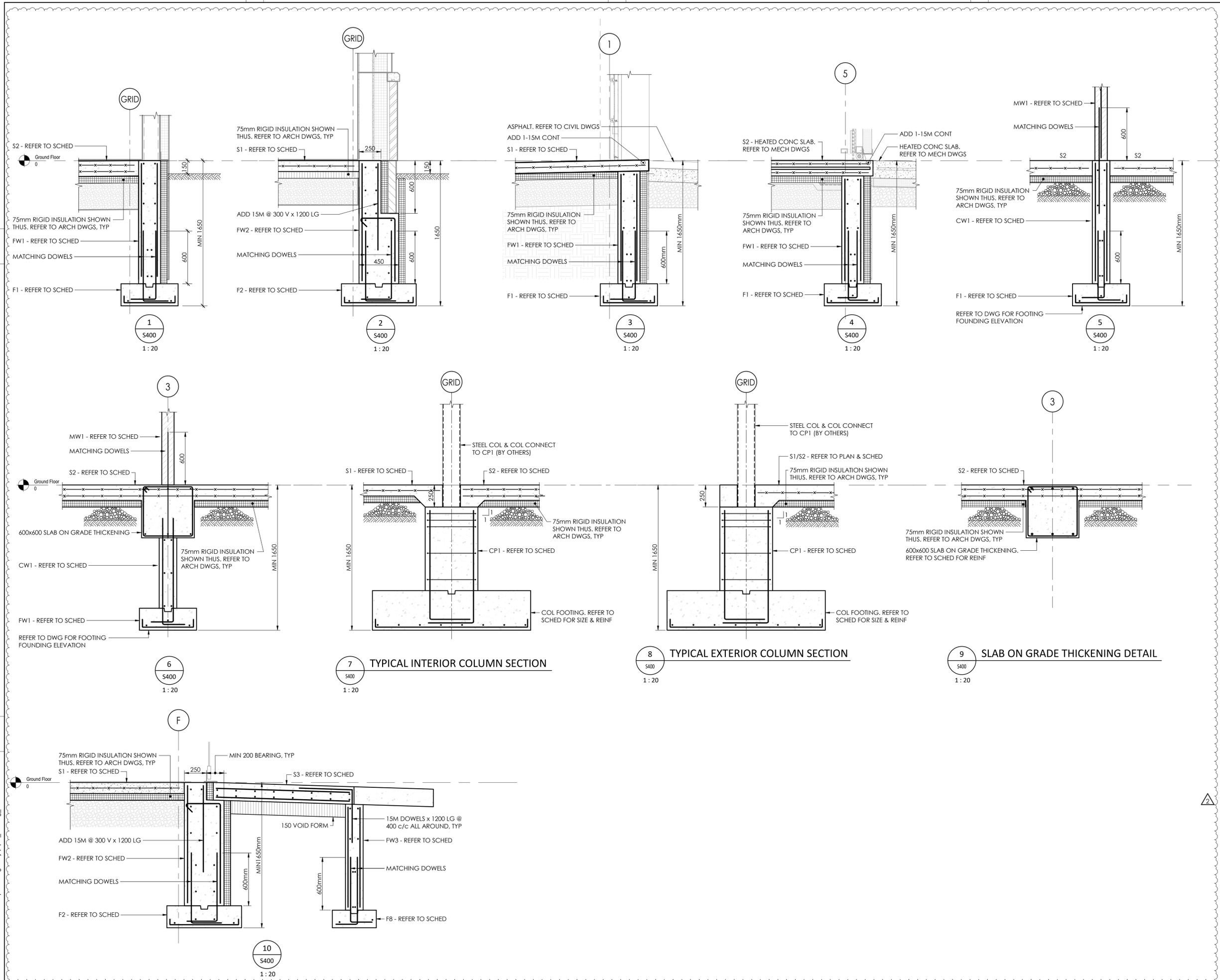


Sheet Title:

SECTIONS

Drawing No.

S400



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350 GARFIELD WRIGHT BOULEVARD
TOWN OF EAST GWILLIMBURY

Key Plan



NO.	ISSUED	DATE
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Scale: 1:20

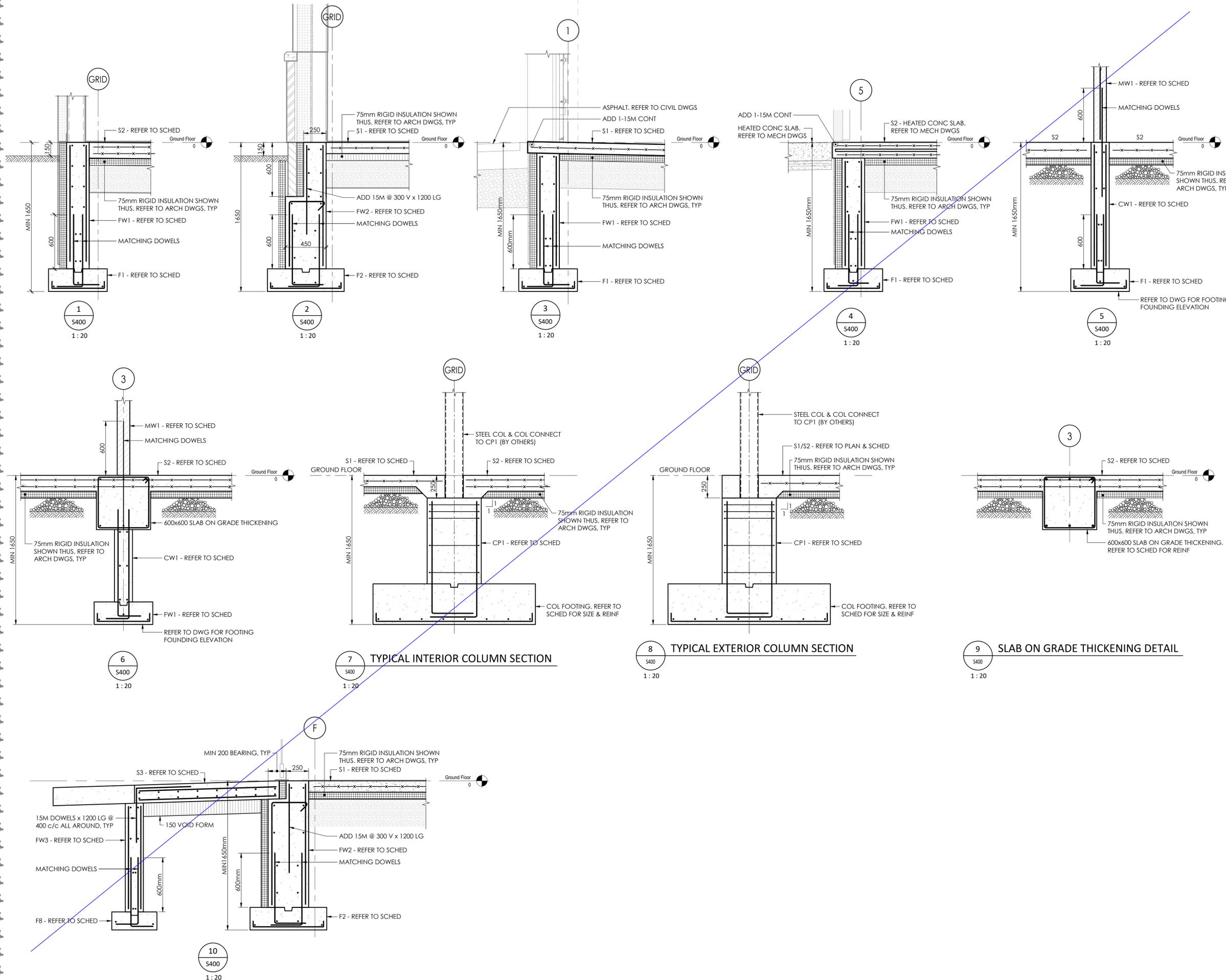


Sheet Title:

SECTIONS

Drawing No.

S400



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