

# SAMPLE STANDARD DETAILS CAAST CONCRETE PANELS

## ABBREVIATIONS:

&	AND	LL	LIVE LOAD
⊙	AT	LLH	LONG LEG HORIZONTAL
AB	ANCHOR BOLT	LLV	LONG LEG VERTICAL
ADD'L	ADDITIONAL	LSL	LAMINATED STRAND LUMBER (TIMBERSTRAND)
ALT	ALTERNATE	LVL	LAMINATED VENEER LUMBER (MICROLLAM)
A/V	AIR/VAPOUR	MAX	MAXIMUM
BTW	BETWEEN	MF	FACTORED MOMENT
BLL	BOTTOM LOWER LAYER	MIN	MINIMUM
B/O	BOTTOM OF	MIRR	MIRRORED
BOT	BOTTOM	NTS	NOT TO SCALE
B/S	BACK SIDE	OC	ON CENTRE
BUL	BOTTOM UPPER LAYER	OD	OUTSIDE DIAMETER
CANT	CANTILEVER	OF	OUTSIDE FACE
CONC	CONCRETE	OH	OVERHANG
CONT	CONTINUOUS	O/H	OVER HEAD
CF	FACTORED COMPRESSION FORCE	PL	PLATE
CIP	CAST IN PLACE	PLY	PLYWOOD
CJ	CONTROL JOINT	PSL	PARALLEL STRAND LUMBER (PARALLAM)
CLR	CLEAR	P/T	POST-TENSION
C/W	COMPLETE WITH	PT	PRESSURE TREATED
CS	COUNTERSINK	REINF	REINFORCING
CL	CENTERLINE	R/W	REINFORCE WITH
COL	COLUMN	SB	SLAB BAND
DL	DEAD LOAD	SIM	SIMILAR
DP	DEEP	SOG	SLAB ON GRADE
DFIR	DOUGLAS FIR	SS	STAINLESS STEEL
EA	EACH	STAG	STAGGER
EE	EACH END	T/B	TO BE
EF	EACH FACE	T&B	TOP AND BOTTOM
EL	ELEVATION	TBD	TO BE DETERMINED
ES	EACH SIDE	TBV	TO BE VERIFIED
EW	EACH WAY	TF	FACTORED TENSION FORCE
EXT	EXTERIOR	T&G	TONGUE AND GROOVE
FDN	FOUNDATION	THK	THICK
FTG	FOOTING	TL	TOTAL LOAD (DL+LL)
Go	GAUGE	TLL	TOP LOWER LAYER
GALV	GALVENIZED	T/O	TOP OF
GL	GLULAM	TOS	TOP OF SLAB
GR	GRADE	TS	TIMBERSTRAND
GL	GRID LINE	TUL	TOP UPPER LAYER
GT	GIRDER TRUSS	TYP	TYPICAL
H	HIGH	UDL	UNIFORMLY DISTRIBUTED LOAD
H1E	HOOK ONE END	UNO	UNLESS NOTED OTHERWISE
H2E	HOOK TWO ENDS	U/S	UNDERSIDE
H&V	HORIZONTAL AND VERTICAL	VERT	VERTICAL
HORIZ	HORIZONTAL	Vf	FACTORED SHEAR FORCE
ID	INSIDE DIAMETER	W/	WITH
IF	INSIDE FACE	WD	WIDTH
INSUL	INSULATION	WWM	WELDED WIRE MESH
INT	INTERIOR		
KD	KILN DRIED		
LG	LONG		

*NOTE:  
FOR INFORMATION ONLY.  
ENGINEERING PARAMETERS TO BE DESIGNED.*

## GENERAL NOTES:

- ALL DIMENSIONS AND ANGLES TO BE SITE VERIFIED.
- BASE BUILDING CONTRACTOR MUST ENSURE ALL FIXTURES/EQUIPMENT FOR THE BUILDING ARE MOUNTED TO THE BASE BUILDING SUBSTRUCTURE NOT THE CONCRETE PANELS OR THEIR COMPONENTS. COORDINATE ALL CONCRETE PANEL PENETRATIONS WITH SPRING VALLEY PRIOR TO ANY WORK BEING DONE.
- ALL CONCRETE WALL PANELS ARE 19mm THICK AND ALL CONCRETE WALL PANELS ON TOWER ARE 25mm THICK.
- BASE BUILDING CONTRACTOR MUST PROVIDE SUBSTRUCTURE BACKING TO BOTH MINIMUM GAUGE AND PER LOCATIONS CORRESPONDING TO CONCRETE PANEL COMPONENT REQUIREMENTS AS SPECIFIED ON THESE DRAWINGS.
- DO NOT SUBSTITUTE ANY HARDWARE OR COMPONENTS.
- ALL PANEL REVEALS (GAPS) TO BE 10mm UNLESS NOTED OTHERWISE. UNLESS NOTED OTHERWISE ALL ALUMINUM CLOSURES VENTED OR NOT ARE TO BE BY OTHERS.
- ALL PENETRATIONS, EX MECHANICAL, THROUGH CONCRETE PANELS TO HAVE 10mm REVEALS(GAPS) WITH BACKER ROD AND SEALANT BY OTHERS. ANY REQUIRED CLOSURES AT PENETRATIONS ARE TO BE COORDINATED WITH SPRING VALLEY PRIOR TO COMMENCEMENT OF WORK.
- ALL CONCRETE PANEL COMPONENTS UNLESS NOTED OTHERWISE ARE TO BE RAW MATERIAL FINISH.
- SEE DETAILS FOR ALL CONCRETE PANEL AND COMPONENT CONNECTION FASTENER TYPES AND METHODS.
- BASE BUILDING CONTRACTOR MUST ENSURE BASE BUILDING SUBSTRUCTURE IS MINIMUM 16 GAUGE "Z"-GIRTS, MINIMUM 16 GAUGE METAL STUDS, STRUCTURAL STEEL, CONCRETE BLOCK, POURED CONCRETE OR CAST-IN-PLACE CONCRETE CORRESPONDING TO EACH AREA AS SHOWN ON THESE DRAWINGS.
- BASEBUILDING AND CONCRETE PANEL COMPONENTS FASTENED TO DISSIMILAR METALS TO HAVE GALVANIC SEPARATION.
- DOOR JAMB AND HEADER CLOSURES AND THEIR ABUTTING FLASHINGS AND ALL OTHER FLASHINGS ARE BY OTHERS.
- REPORT ALL DRAWING AND/OR SITE DISCREPANCIES IMMEDIATELY TO SPRING VALLEY.
- REVIEW DWGS IN THEIR ENTIRETY PRIOR TO FABRICATION/CONSTRUCTION.

## DRAWING INDEX:

DWG #:	DWG TITLE:	SHEET #:
D01	COVER SHEET	1 OF 7
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FULL SCALE PLOT:  
10mm

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1	ISSUED FOR INFORMATION	OCT 19/19
No:	REVISION/ISSUE:	DATE:

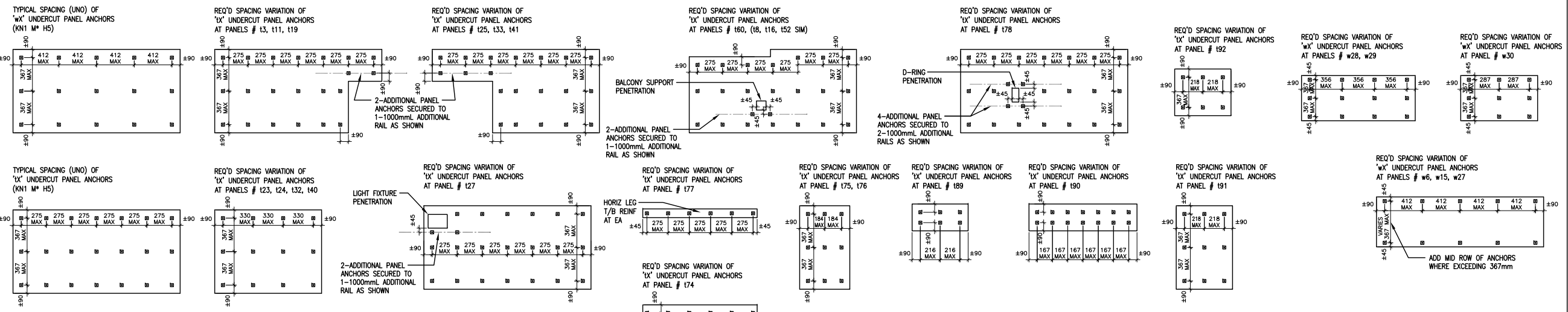
PROJECT NAME:  
**SAMPLE  
STANDARD DETAILS  
CAAST CONCRETE PANELS**

DRAWING TITLE:  
**COVER SHEET**

DRAWN BY: J.J.S.	PROJECT NUMBER: 1909002
DATE: OCT 19/19	SCALE: NTS

REVISION:	DRAWING NUMBER: <b>D01</b>
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PANEL ANCHOR SPACING:



SCALE: 1:50



19980 T/O TOWER PARAPET

- NOTE: ALL DIMENSIONS T/B SITE VERIFIED
- NOTE: ALL FULL SIZE CONC WALL PANELS ARE A FIXED SIZE (1830x915mm) INSTALLED IN A GRID PATTERN AS SHOWN ON THESE DWGS. MINOR DIMENSIONAL DISCREPANCIES W/ BASE BLDG WILL BE ACCOMMODATED AT PERIMETER OF PANELS W/IN CLOSURES AND ADJACENT MATERIALS
- NOTE: FOR SMALLER PANELS (EX ALONG BOT AT FOUND WALL) FINAL PANEL SIZES DETERMINED BY SITE CONFIRMATION OF DIMENSIONS.
- NOTE: IN LOCATIONS WITH HSS FRAMING, GC TO ENSURE W/L STUDS ARE PROVIDED FOR MISSING BRACKET ATTACHMENT REQUIREMENTS.
- NOTE: GC TO COORDINATE PENETRATION SIZES AND LOCATIONS IN CONC WALL PANELS FOR M&E/PLUM/STRUC ETC

**PANEL TYPE LEGEND:**

- WX DENOTES PANEL NUMBER FOR 1830w X 915H X 19mmTH CONC WALL PANEL (QTY 49) COLOUR: TBD
- LX DENOTES PANEL NUMBER FOR 1830w X 915H X 25mmTH CONC WALL PANEL ON TOWER (QTY 88) COLOUR: TBD
- ★ DENOTES PANEL W/ REQ'D SPACING VARIATION OF UNDERCUT PANEL ANCHORS; SEE DETAILS ABOVE ON THIS SHEET

NOTE: FOR INFORMATION ONLY. ENGINEERING PARAMETERS TO BE DESIGNED.

14980 T/O TOWER LEVEL 05

13800 T/O STAIR PARAPET

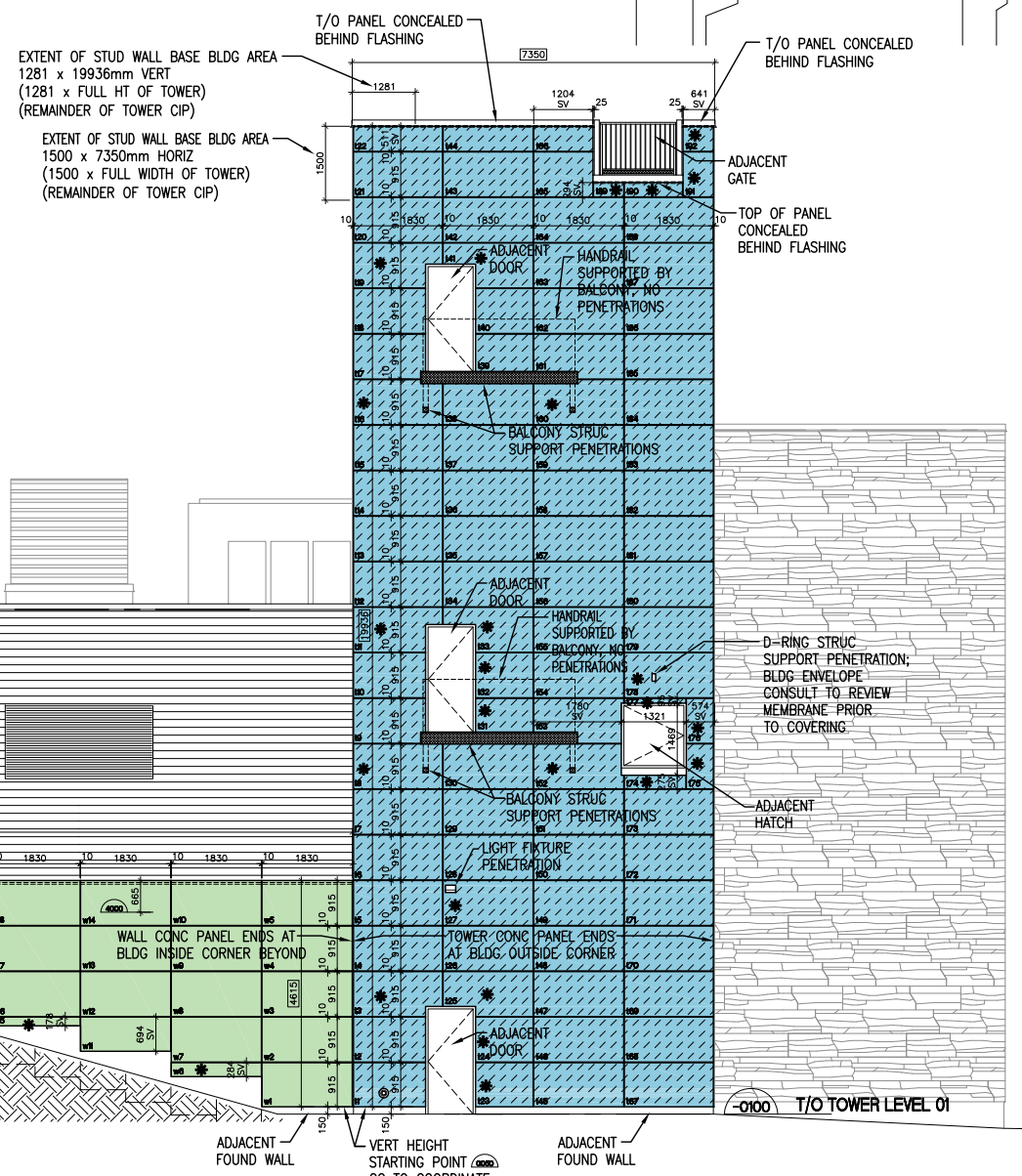
11320 T/O TOWER LEVEL 04

10150 T/O MEZZANINE/BAY PARAPET

7680 T/O TOWER LEVEL 03

4000 T/O MEZZANINE LEVEL T/O TOWER LEVEL 02

1 D02.1 SAMPLE ELEVATION - NORTH SCALE: 1:150



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10mm

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2	ISSUED FOR INFORMATION	OCT 19/19
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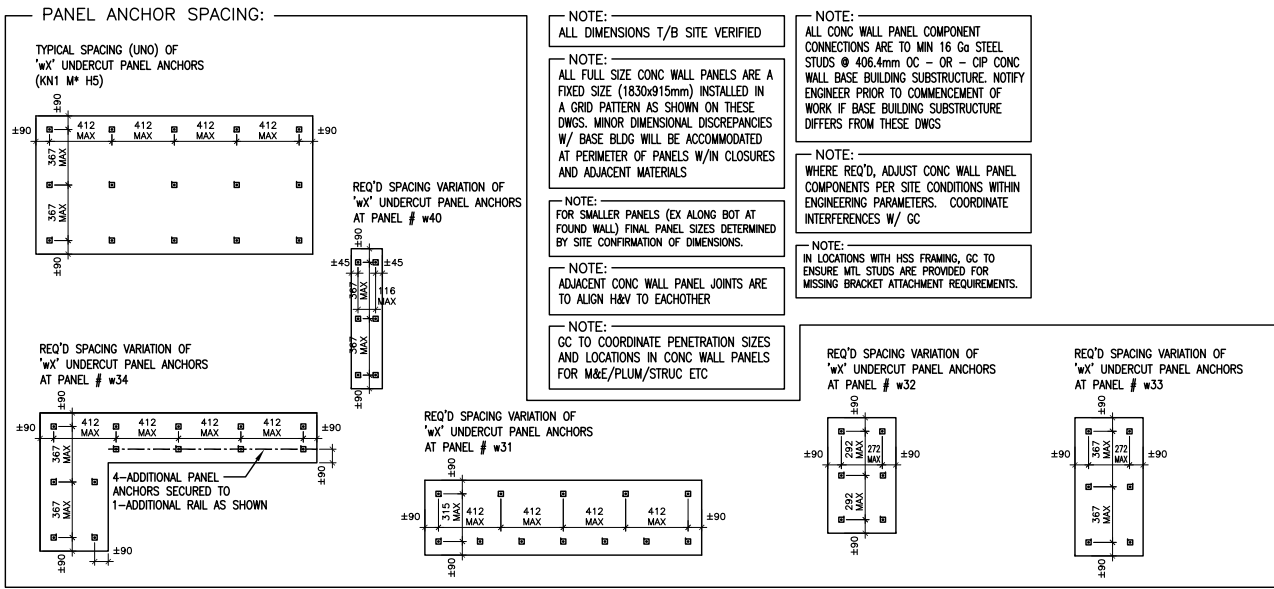


PROJECT NAME:  
SAMPLE STANDARD DETAILS  
CAAST CONCRETE PANELS

DRAWING TITLE:  
**SAMPLE ELEVATION - NORTH**

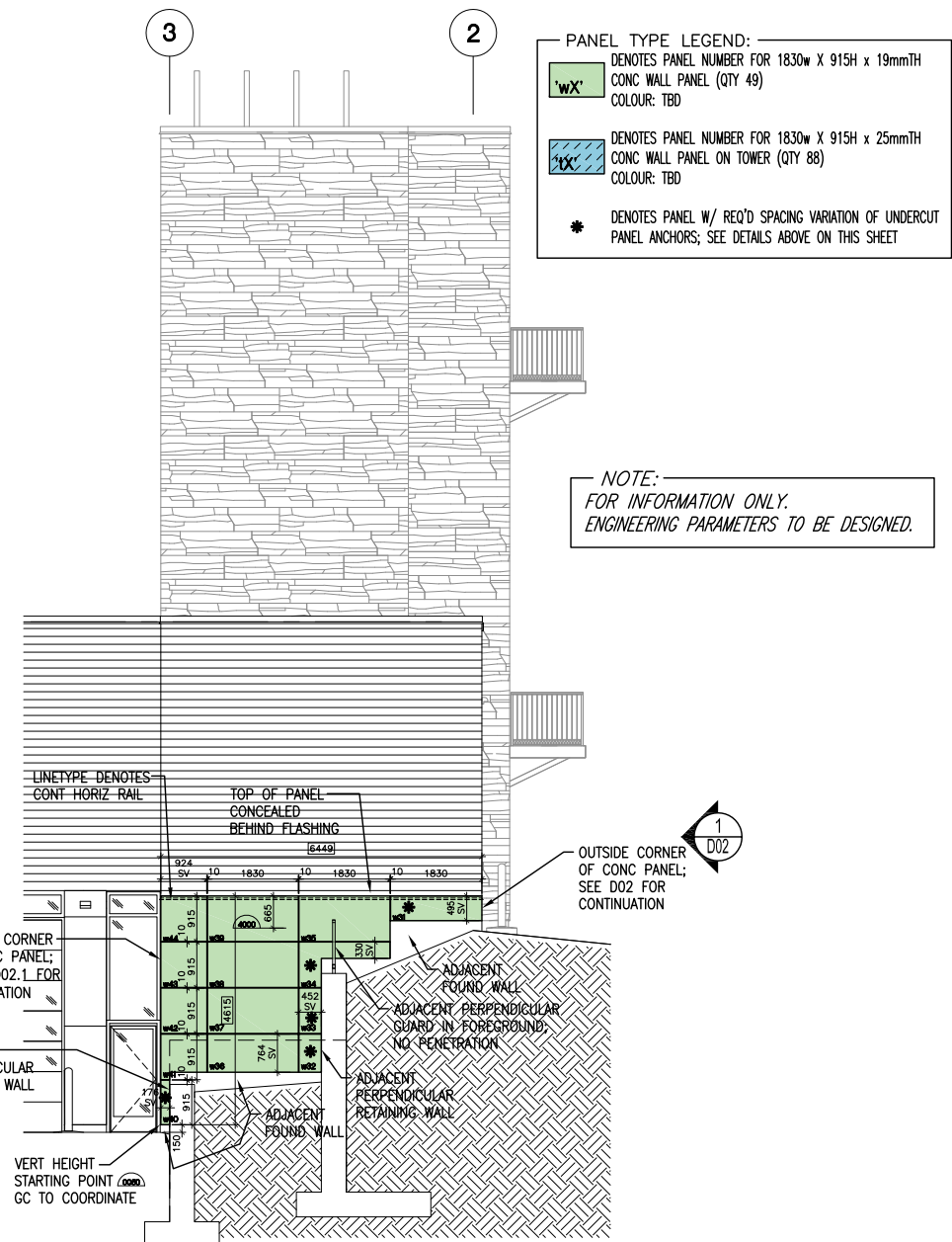
DRAWN BY: J.J.S.	PROJECT NUMBER: 1909002
DATE: OCT 19/19	SCALE: AS NOTED
REVISION:	DRAWING NUMBER: <b>D02</b>

ARCH REF: XXX



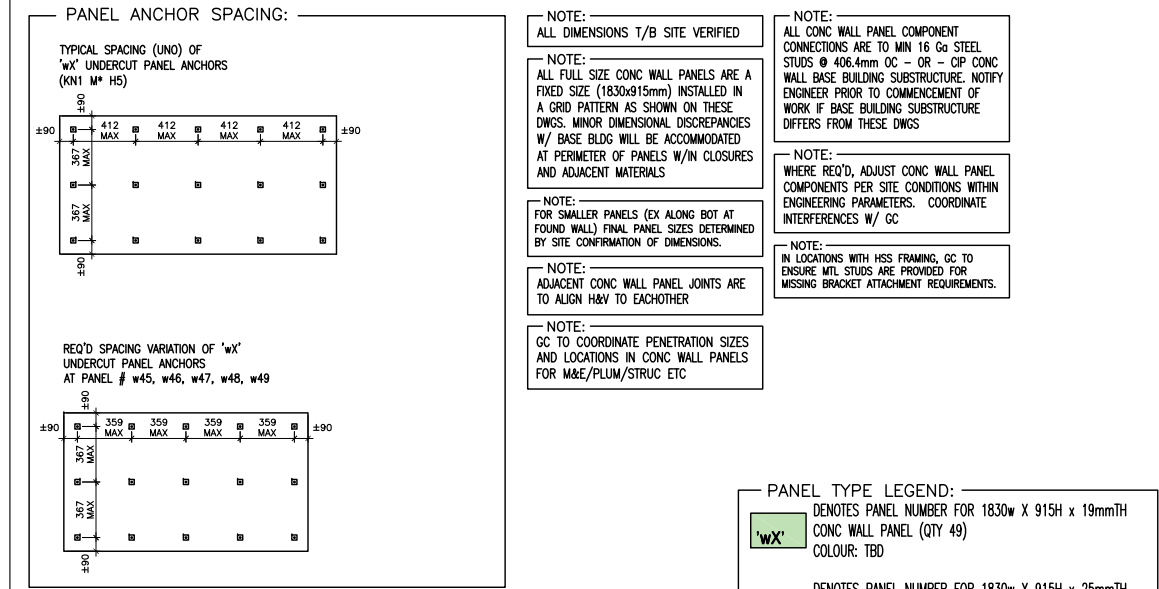
SCALE: 1:50

- 19980 T/O TOWER PARAPET
- 14980 T/O TOWER LEVEL 05
- 13800 T/O STAIR PARAPET
- 11320 T/O TOWER LEVEL 04
- 10150 T/O MEZZANINE/BAY PARAPET
- 7660 T/O TOWER LEVEL 03
- 4000 T/O MEZZANINE LEVEL T/O TOWER LEVEL 02
- 0100 T/O TOWER LEVEL 01



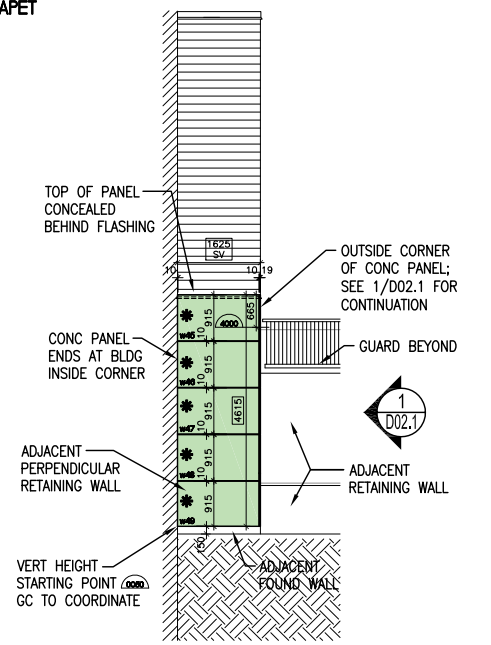
1 SAMPLE ELEVATION - PARTIAL EAST  
D02.1 SCALE: 1:50

ARCH REF: XXX



SCALE: 1:50

- 19980 T/O TOWER PARAPET
- 14980 T/O TOWER LEVEL 05
- 13800 T/O STAIR PARAPET
- 11320 T/O TOWER LEVEL 04
- 10150 T/O MEZZANINE/BAY PARAPET
- 7660 T/O TOWER LEVEL 03
- 4000 T/O MEZZANINE LEVEL T/O TOWER LEVEL 02
- 0100 T/O TOWER LEVEL 01



2 SAMPLE ELEVATION - PARTIAL EAST (HIDDEN ELEVATION ALONG GrLX)  
D02.1 SCALE: 1:50

ARCH REF: XXX

**FULL SCALE PLOT:**  
10mm

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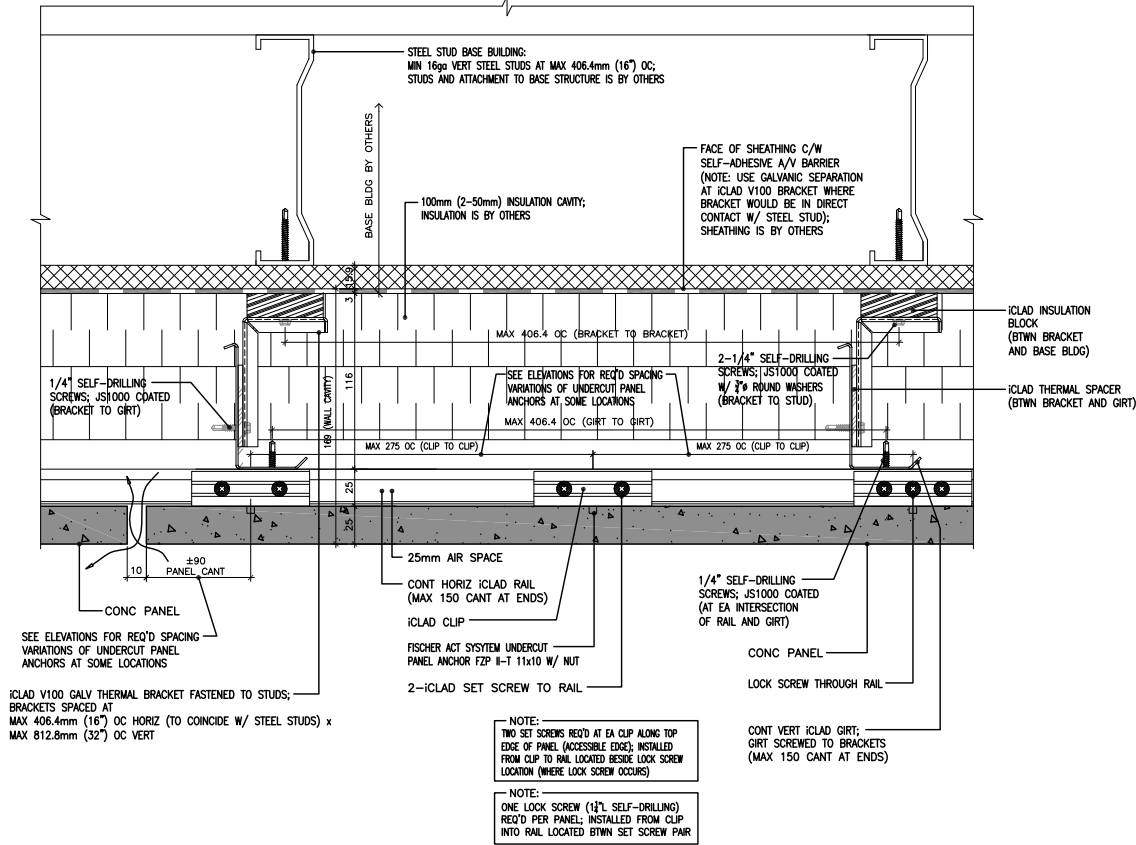


PROJECT NAME:  
SAMPLE STANDARD DETAILS  
CAAST CONCRETE PANELS

DRAWING TITLE:  
**SAMPLE ELEVATIONS - EAST**

DRAWN BY: J.J.S.	PROJECT NUMBER: 1909002
DATE: OCT 19/19	SCALE: AS NOTED
REVISION:	DRAWING NUMBER: <b>D02.1</b>

NOTE:  
DETAIL APPLIES TO  
25mm THICK PANELS



CLIP AND RAIL THERMAL BRACKET SYSTEM FOR 25mmTH PANELS: (REFER TO DETAILS FOR FURTHER INFO)

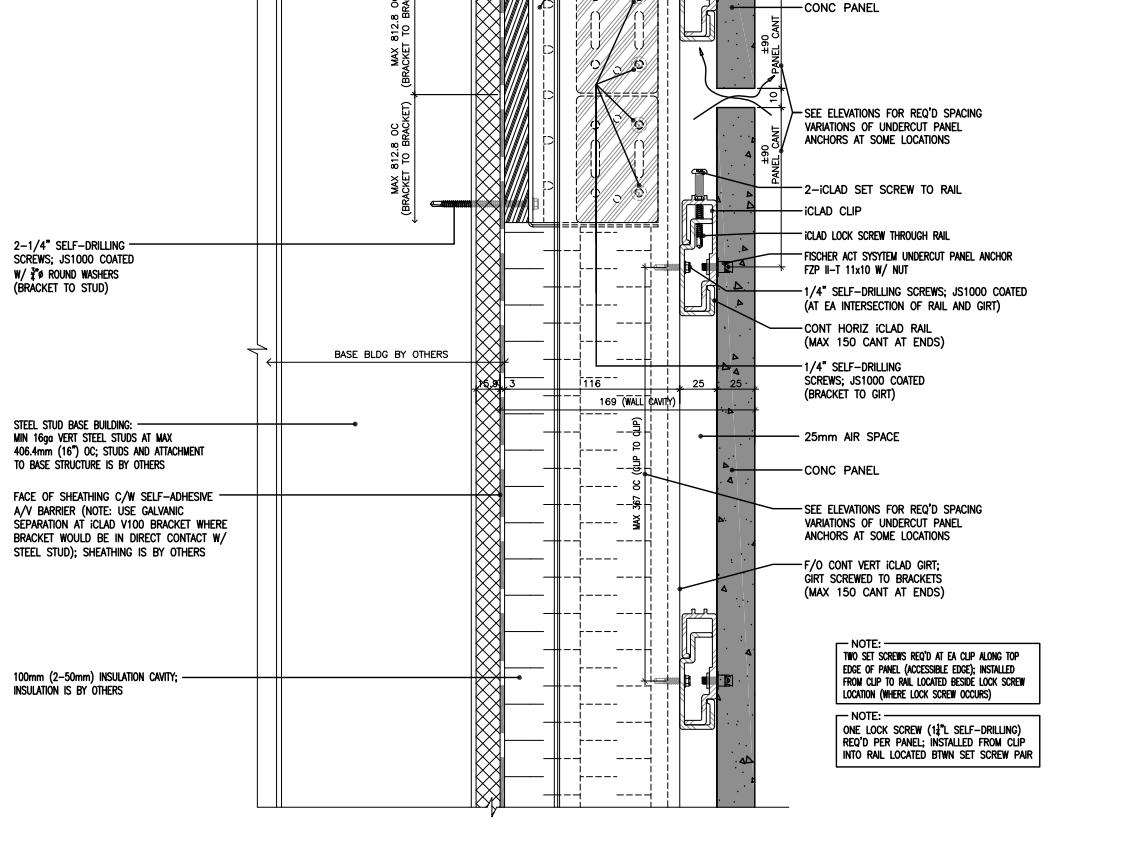
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- AND ONE SCREW AT EA INTERSECTION OF ICLAD RAIL AND ICLAD GIRT GOING LEFT-TO-RIGHT (HORIZ) AT 406.4mm (16")
- SCREWED ICLAD CLIPS ARE SPACED AT ±90mm (3") OC FROM PANEL PERIMETER AND AT MAX 275mm (10") OC (HORIZ) ALONG EA ICLAD RAIL
- W/ A CONCEALED FASTENER AT EA CLIP TO THE 8/5 OF THE PANEL
- MIN 2 ROWS OF CLIPS PER PANEL UNLESS PANEL HEIGHT WILL NOT ALLOW

- NOTE: ALL DIMENSIONS T/B SITE VERIFIED
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- NOTE: GC TO COORDINATE PENETRATION SIZES AND LOCATIONS IN CONC WALL PANELS FOR M&E/PLUM/STRUC ETC
- NOTE: ALL CONC WALL PANEL COMPONENT CONNECTIONS ARE TO MIN 16 GA STEEL STUDS @ 406.4mm OC - OR - CIP CONC WALL BASE BUILDING SUBSTRUCTURE. NOTIFY ENGINEER PRIOR TO COMMENCEMENT OF WORK IF BASE BUILDING SUBSTRUCTURE DIFFERS FROM THESE DWGS
- NOTE: WHERE REQ'D, ADJUST CONC WALL PANEL COMPONENTS PER SITE CONDITIONS WITHIN ENGINEERING PARAMETERS. COORDINATE INTERFERENCES W/ GC
- NOTE: IN LOCATIONS WITH HSS FRAMING, GC TO ENSURE MTL STUDS ARE PROVIDED FOR MISSING BRACKET ATTACHMENT REQUIREMENTS.

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1 TYP CONNECTION DETAIL - HORIZ SECTION (25mm PANEL • STUDS)  
D03 SCALE: 1:5

NOTE:  
DETAIL APPLIES TO  
25mm THICK PANELS



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- ICLAD BRACKETS ARE FASTENED TO BASE BLDG (MTL STUDS - OR - CIP CONC WALL)
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2 TYP CONNECTION DETAIL - VERT SECTION (25mm PANEL • STUDS)  
D03 SCALE: 1:5

FULL SCALE PLOT:  
10mm

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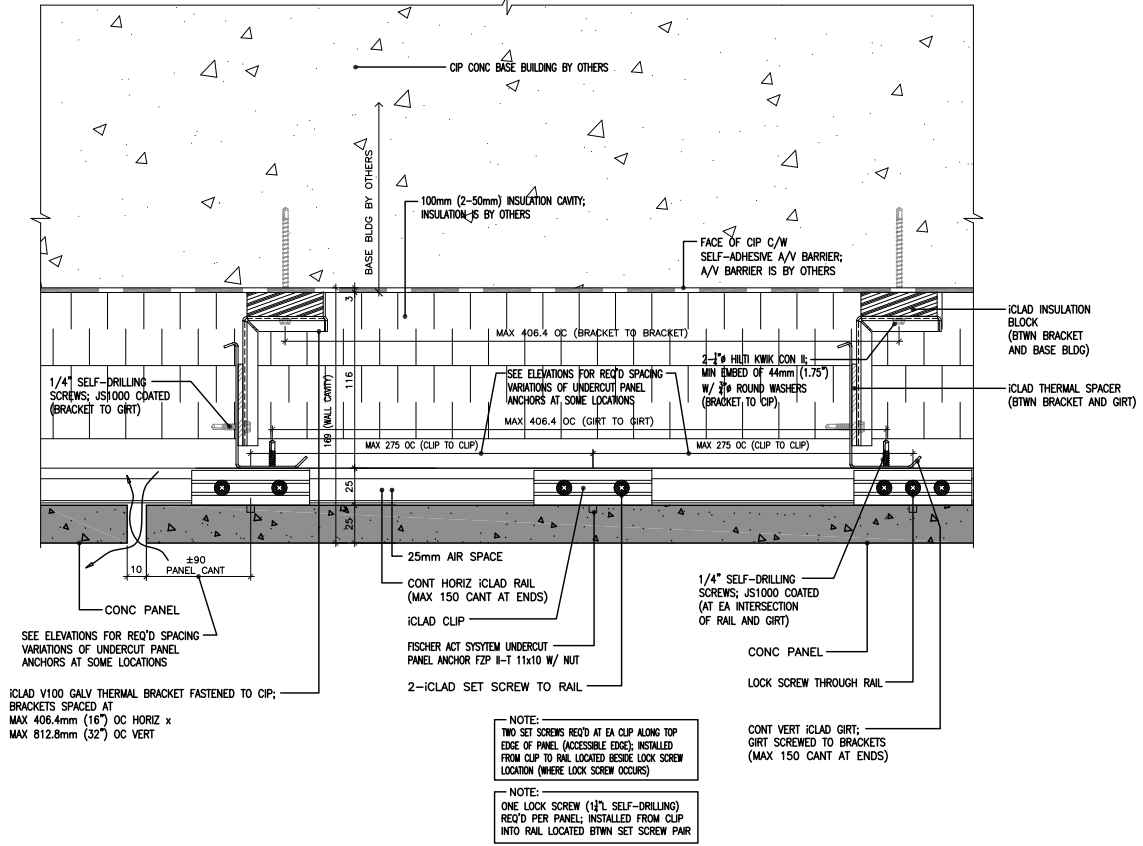


PROJECT NAME:  
SAMPLE STANDARD DETAILS  
CAAST CONCRETE PANELS

DRAWING TITLE:  
TYPICAL H&V CONNECTION DETAILS  
(25mmTH PANELS • STUDS)

DRAWN BY: J.J.S.	PROJECT NUMBER: 1909002
DATE: OCT 19/19	SCALE: AS NOTED
REVISION:	DRAWING NUMBER: D03

NOTE:  
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25mm THICK PANELS



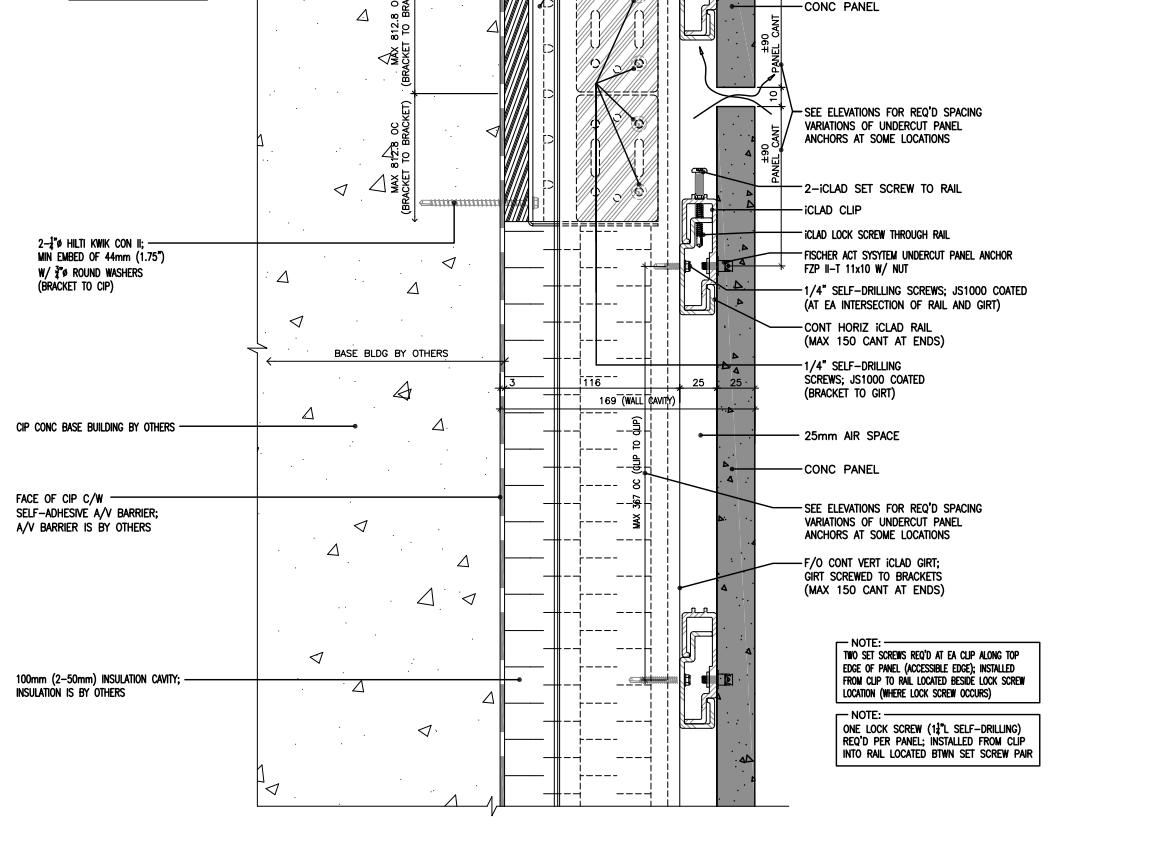
CLIP AND RAIL THERMAL BRACKET SYSTEM FOR 25mmTH PANELS: (REFER TO DETAILS FOR FURTHER INFO)

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1	ISSUED FOR INFORMATION	OCT 19/19
No:	REVISION/ISSUE:	DATE:



PROJECT NAME:  
SAMPLE STANDARD DETAILS  
CAAST CONCRETE PANELS

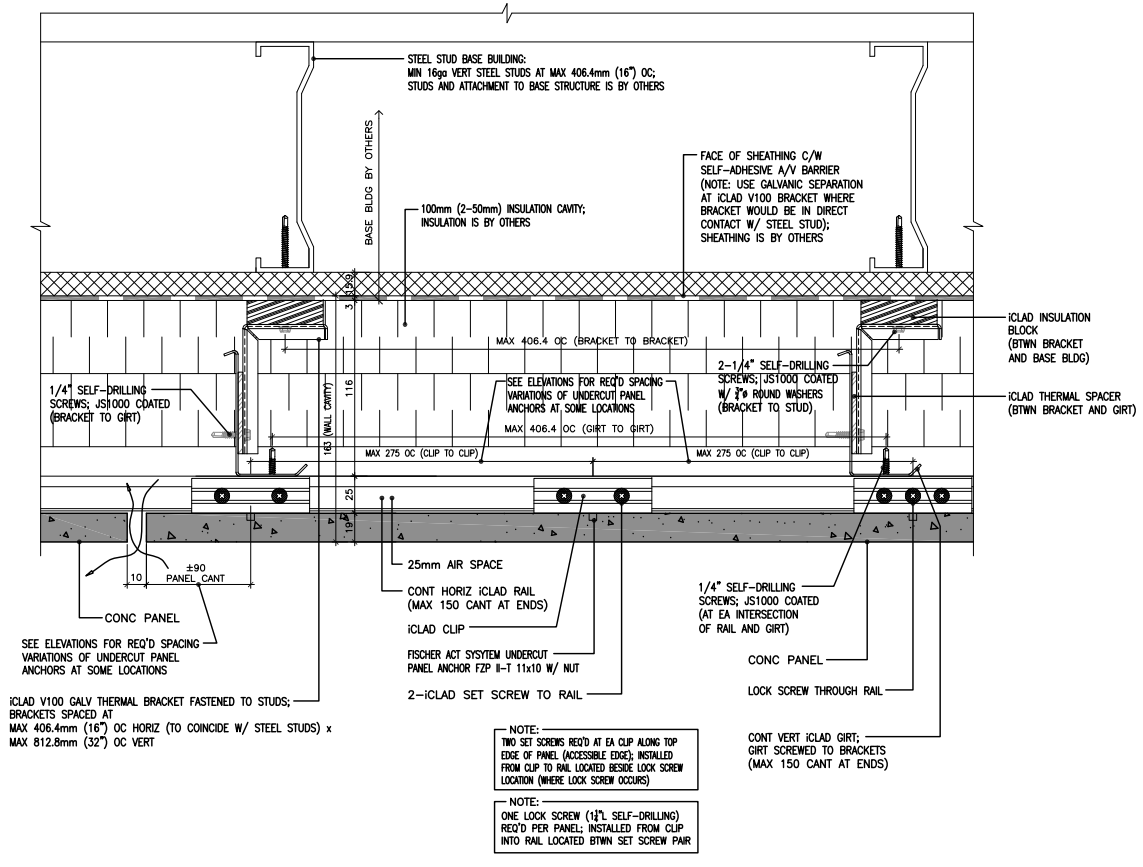
DRAWING TITLE:  
TYPICAL H&V CONNECTION DETAILS  
(25mmTH PANELS • CIP)

DRAWN BY: J.J.S.	PROJECT NUMBER: 1909002
DATE: OCT 19/19	SCALE: AS NOTED
REVISION:	DRAWING NUMBER: D03.1

1 TYP CONNECTION DETAIL - HORIZ SECTION (25mm PANEL • CIP)  
D03.1 SCALE: 1:5

2 TYP CONNECTION DETAIL - VERT SECTION (25mm PANEL • CIP)  
D03.1 SCALE: 1:5

NOTE:  
DETAIL APPLIES TO  
19mm THICK PANELS



CLIP AND RAIL THERMAL BRACKET SYSTEM FOR 19mmTH PANELS: (REFER TO DETAILS FOR FURTHER INFO)

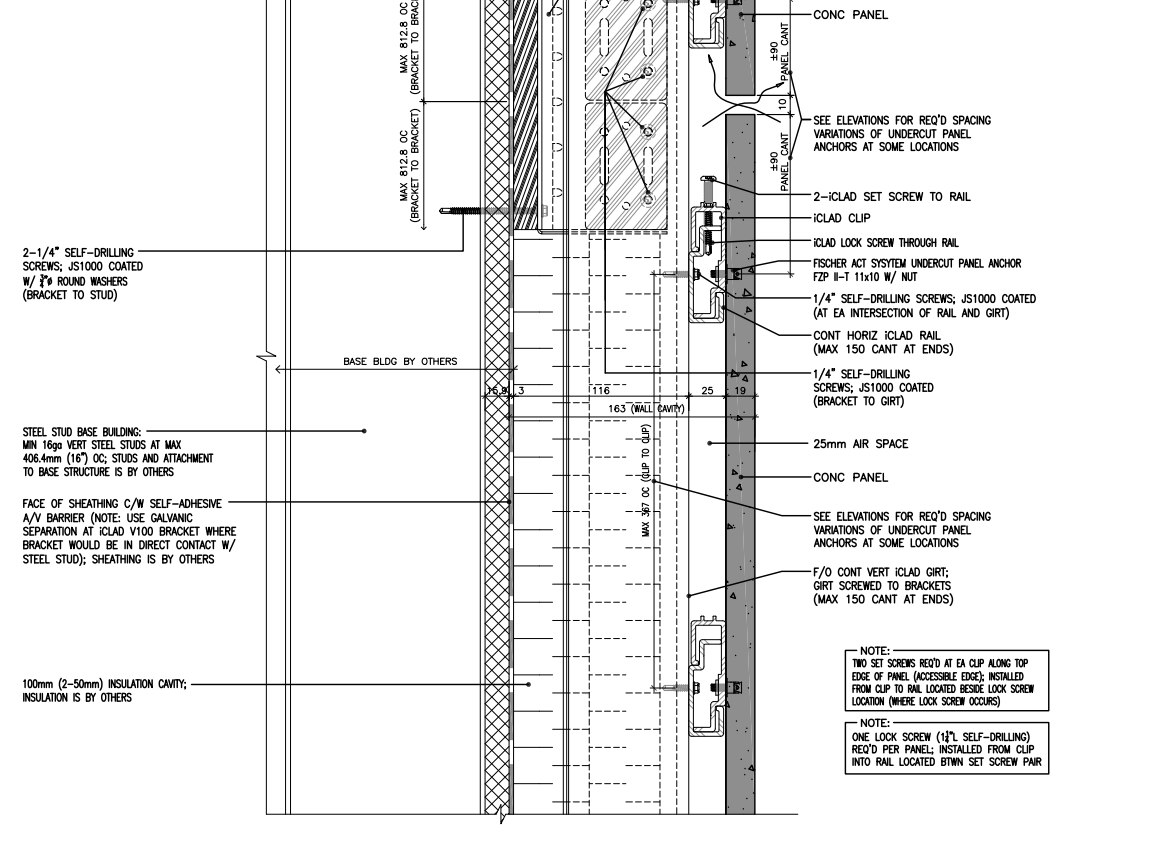
- ICLAD BRACKETS ARE FASTENED TO BASE BLDG (MTL STUDS - OR - CIP CONC WALL)
- SCREWED CONT ICLAD GRITS SPAN ICLAD BRACKETS VERT
- SCREWED CONT ICLAD RAILS SPAN ICLAD GRITS HORIZ (PERPENDICULAR)
- W/ ONE SCREW AT EA INTERSECTION OF ICLAD RAIL AND ICLAD GIRT GOING UP AND DOWN (VERT) AT MAX 367mm (14")
- AND ONE SCREW AT EA INTERSECTION OF ICLAD RAIL AND ICLAD GIRT GOING LEFT-TO-RIGHT (HORIZ) AT 406.4mm (16")
- SCREWED ICLAD CLIPS ARE SPACED AT ±90mm (3") OC FROM PANEL PERIMETER AND AT MAX 412mm (16 1/2") OC (HORIZ) ALONG EA ICLAD RAIL
- W/ A CONCEALED FASTENER AT EA CLIP TO THE 8/5 OF THE PANEL
- MIN 2 ROWS OF CLIPS PER PANEL UNLESS PANEL HEIGHT WILL NOT ALLOW

- NOTE: ALL DIMENSIONS T/B SITE VERIFIED
- NOTE: ALL FULL SIZE CONC WALL PANELS ARE A FIXED SIZE (1830x915mm) INSTALLED IN A GRID PATTERN AS SHOWN ON THESE DWGS. MINOR DIMENSIONAL DISCREPANCIES W/ BASE BLDG WILL BE ACCOMMODATED AT PERIMETER OF PANELS W/IN REVEALS TO ADJACENT MATERIALS
- NOTE: FOR SMALLER PANELS (EX ALONG BOT AT FOUND WALL) FINAL PANEL SIZES DETERMINED BY SITE CONFIRMATION OF DIMENSIONS.
- NOTE: ADJACENT CONC WALL PANEL JOINTS ARE TO ALIGN H&V TO EACHOTHER
- NOTE: GC TO COORDINATE PENETRATION SIZES AND LOCATIONS IN CONC WALL PANELS FOR M&E/PLUM/STRUC ETC
- NOTE: ALL CONC WALL PANEL COMPONENT CONNECTIONS ARE TO MIN 16 GA STEEL STUDS @ 406.4mm OC - OR - CIP CONC WALL BASE BUILDING SUBSTRUCTURE. NOTIFY ENGINEER PRIOR TO COMMENCEMENT OF WORK IF BASE BUILDING SUBSTRUCTURE DIFFERS FROM THESE DWGS
- NOTE: WHERE REQ'D, ADJUST CONC WALL PANEL COMPONENTS PER SITE CONDITIONS WITHIN ENGINEERING PARAMETERS. COORDINATE INTERFERENCES W/ GC
- NOTE: IN LOCATIONS WITH HSS FRAMING, GC TO ENSURE MTL STUDS ARE PROVIDED FOR MISSING BRACKET ATTACHMENT REQUIREMENTS.

NOTE:  
FOR INFORMATION ONLY.  
ENGINEERING PARAMETERS TO BE DESIGNED.

1 TYP CONNECTION DETAIL - HORIZ SECTION (19mm PANEL • STUDS)  
D04 SCALE: 1:5

NOTE:  
DETAIL APPLIES TO  
19mm THICK PANELS



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2 TYP CONNECTION DETAIL - VERT SECTION (19mm PANEL • STUDS)  
D04 SCALE: 1:5

FULL SCALE PLOT:  
10mm

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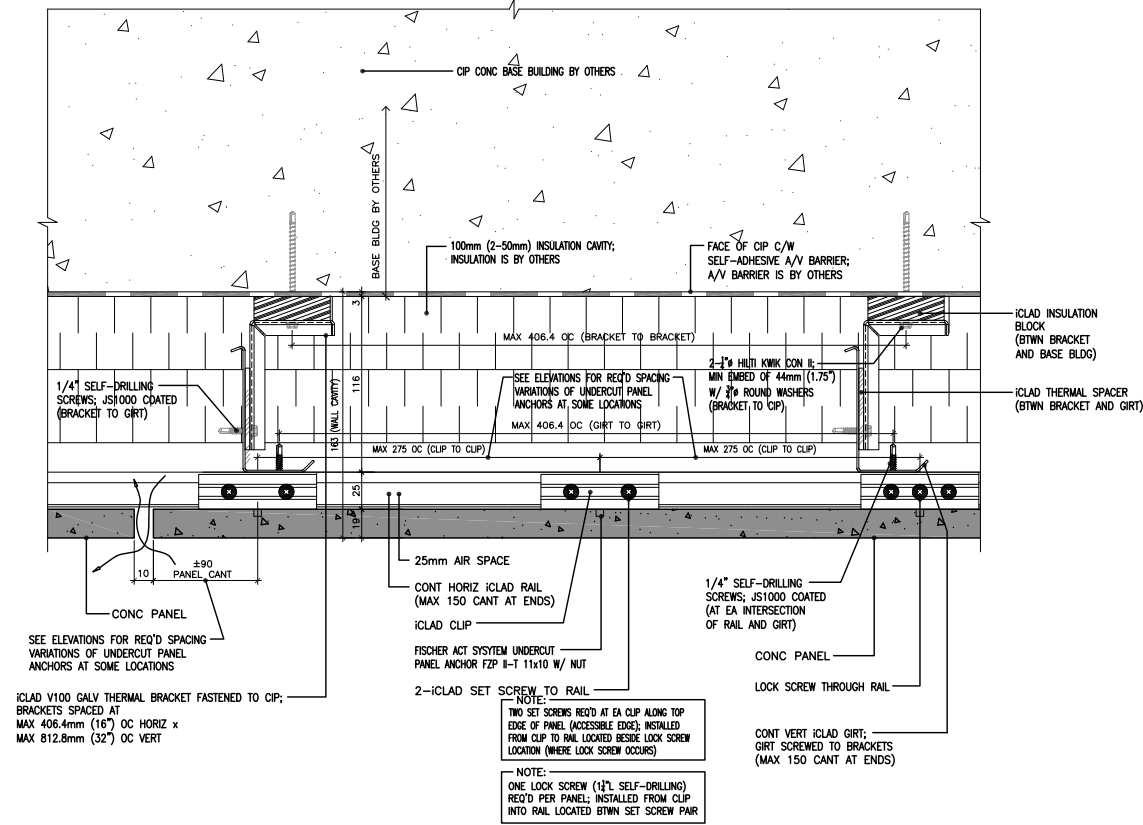


PROJECT NAME:  
SAMPLE STANDARD DETAILS  
CAAST CONCRETE PANELS

DRAWING TITLE:  
TYPICAL H&V CONNECTION DETAILS  
(19mmTH PANELS • STUDS)

DRAWN BY: J.J.S.	PROJECT NUMBER: 1909002
DATE: OCT 19/19	SCALE: AS NOTED
REVISION:	DRAWING NUMBER: D04

NOTE:  
DETAIL APPLIES TO  
19mm THICK PANELS



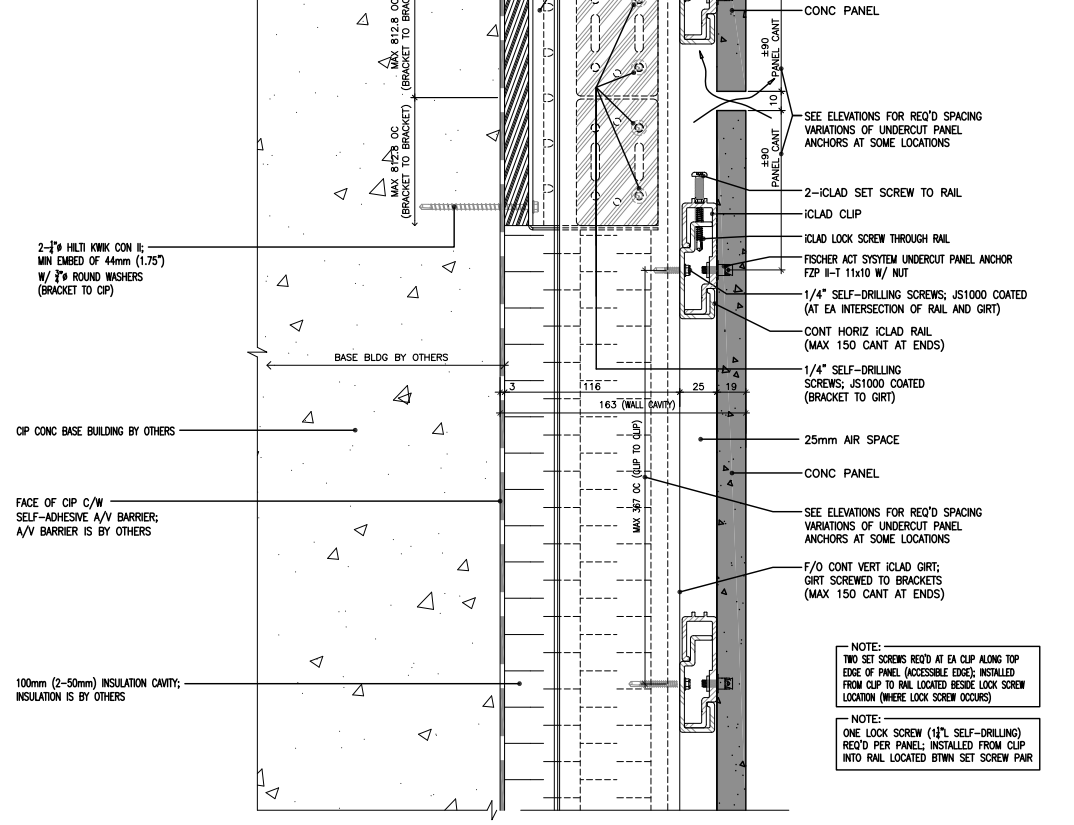
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CAAST CONCRETE PANELS

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DRAWN BY: J.J.S.	PROJECT NUMBER: 1909002
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REVISION:	DRAWING NUMBER: D04.1 7 of 7

1 TYP CONNECTION DETAIL - HORIZ SECTION (19mm PANEL • CIP)  
D04.1 SCALE: 1:5

2 TYP CONNECTION DETAIL - VERT SECTION (19mm PANEL • CIP)  
D04.1 SCALE: 1:5