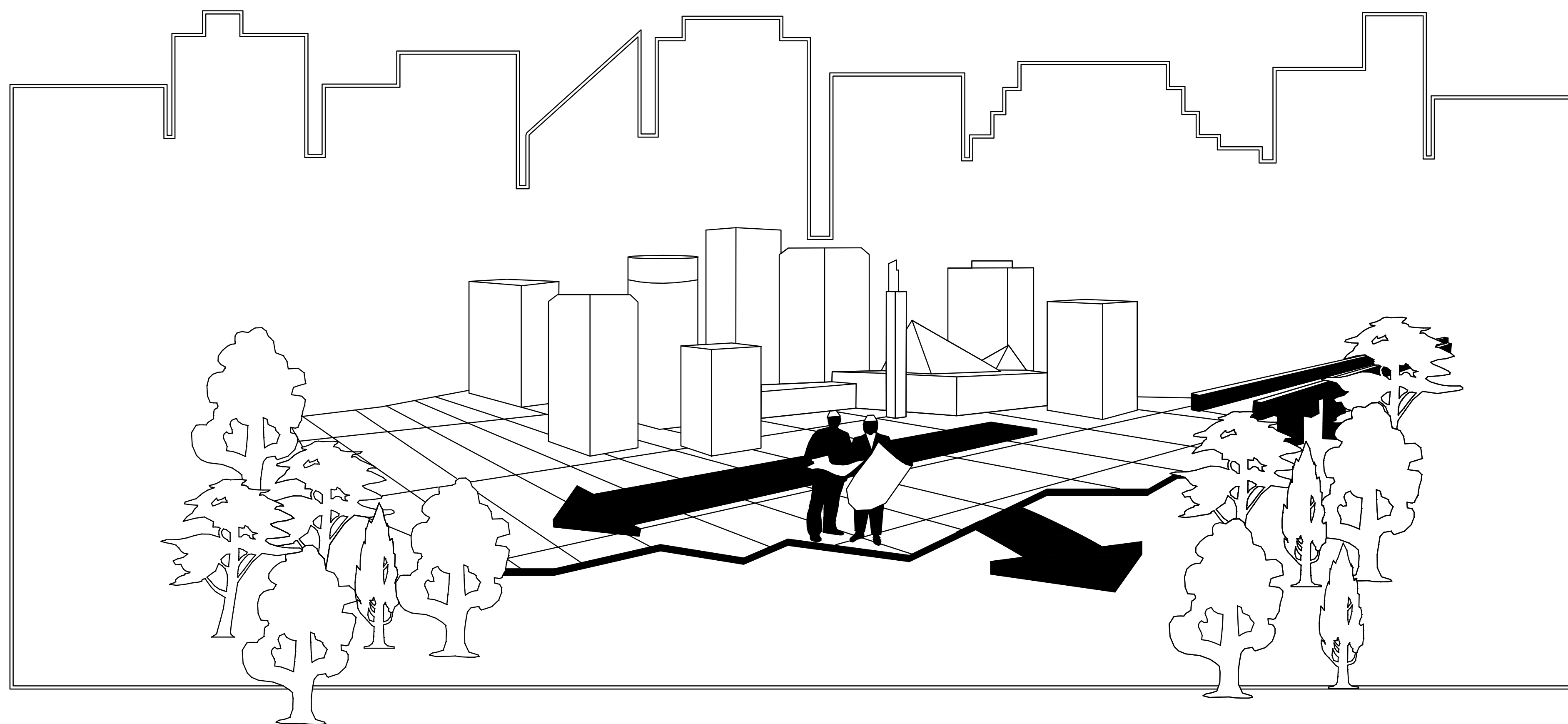




INTEGRATED INFRASTRUCTURE SERVICES

LRT EXPANSION AND RENEWAL BRANCH



FOR TENDER ONLY

MILL WOODS TRANSIT CENTRE

66 STREET & 28 AVENUE

CONTRACT No. 934195

DIRECTOR, SPECIAL PROJECTS
LRT EXPANSION and RENEWAL BRANCH | INTEGRATED INFRASTRUCTURE SERVICES

DRAWING **MWTC 191 001**

RAMULLER / May 6, 2019 / J:\1460014677_VALLEY_LINE_LRT_OE_CONSTRUCTION02_CADD020_DRAFTING0202_MWTC1212_DETAILED DESIGN\MWTC 191 002.DWG

NO.	DRAWING TITLE	NO.	DRAWING TITLE	NO.	DRAWING TITLE
MWTC 191 001 MWTC 191 002 MWTC 191 003	COVER SHEET DRAWING INDEX - CIVIL DRAWING INDEX - ARCHITECTURAL	UTILITY MWTC 191 U01 MWTC 191 U02 MWTC 191 U03 MWTC 191 U10 MWTC 191 U11 MWTC 191 U12 MWTC 191 U13 MWTC 191 SD01 MWTC 191 SD02 MWTC 191 SD03 MWTC 191 SD04	UTILITY PLAN / PROFILE UTILITY PLAN / PROFILE UTILITY PLAN / PROFILE ELECTRICAL FEATURE LAYOUT ELECTRICAL FEATURE LAYOUT ELECTRICAL FEATURE LAYOUT ELECTRICAL FEATURE LAYOUT STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS		
ALIGNMENT		TYPICAL X-SECTIONS MWTC 191 X01	TYPICAL CROSS SECTIONS		
DETAIL MWTC 191 D01 MWTC 191 D02 MWTC 191 D03 MWTC 191 D11 MWTC 191 D12 MWTC 191 D13 MWTC 191 D14 MWTC 191 D15 MWTC 191 D16 MWTC 191 D17 MWTC 191 D18 MWTC 191 D21 MWTC 191 D22 MWTC 191 D23 MWTC 191 D24 MWTC 191 D25 MWTC 191 D26 MWTC 191 D27 MWTC 191 D28	REMOVAL REMOVAL TRANSIT CENTRE DECOMMISSIONING DETAIL DETAIL TRANSIT CENTRE JOINT DETAILS SURFACE JOINT LAYOUT SURFACE JOINT LAYOUT SURFACE JOINT LAYOUT SURFACE JOINT LAYOUT SURFACE JOINT LAYOUT CITY STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS STANDARD DETAILS				
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LANDSCAPE MWTC 191 H01 MWTC 191 H10 MWTC 191 H11 MWTC 191 H12 MWTC 191 H20 MWTC 191 H21 MWTC 191 H22 MWTC 191 H30 MWTC 191 H31 MWTC 191 H32 MWTC 191 H40 MWTC 191 H41	OVERALL LANDSCAPE PLAN FURNISHINGS & FENCING PLAN FURNISHINGS & FENCING PLAN FURNISHINGS & FENCING PLAN FURNISHINGS DETAILS FURNISHINGS DETAILS FURNISHINGS DETAILS LANDSCAPE PLAN LANDSCAPE PLAN LANDSCAPE PLAN LANDSCAPE PLAN LANDSCAPE DETAILS LANDSCAPE DETAILS				
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	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:500
0 5 15 25m

drawn by
R. MULLER

designed by
K. LAU

checked by
D. MARTIN

date
03-05-2019

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.
Signature
Date 2019-05-06
PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

Professional Engineering
2019-05-06

consultant reviewed by
B. CAMPBELL

AECOM
Prime Consultant

Edmonton

prime consultant job no
14677

HATCH

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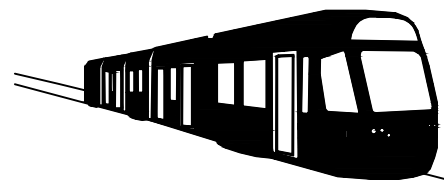
prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

gac architecture

drawing title
MILL WOODS TRANSIT CENTRE
DRAWING INDEX -- CIVIL



VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 002

REV 0
SHT

RAMULLER / May 6, 2019 / J:\1460014677_VALLEY_LINE_LRT_OE_CONSTRUCTION02_CADD\20_DRAFTING\202_MWTC\212_DETAILED DESIGN\MWTC 191 003.DWG

NO.	DRAWING TITLE	NO.	DRAWING TITLE	NO.	DRAWING TITLE
ARCH - ARCHITECTURAL MWTC 191 A0.01 SYMBOLS, LEGENDS, & SCHEDULES MWTC 191 A1.01 SITE PLAN - SCOPE OF WORK MWTC 191 A1.02 SITE PLAN MWTC 191 A2.01 OVERALL FLOOR PLAN MWTC 191 A2.02 OVERALL WALKWAY PLAN MWTC 191 A2.03 FLOOR PLAN - HEATED AREA MWTC 191 A2.04 FLOOR PLAN - UNHEATED AREA MWTC 191 A2.05 CLERESTORY PLAN MWTC 191 A2.06 ROOF PLAN MWTC 191 A3.01 REFLECTED CEILING PLAN - HEATED AREA MWTC 191 A3.02 REFLECTED CEILING PLAN - UNHEATED AREA MWTC 191 A4.01 EXTERIOR ELEVATIONS MWTC 191 A4.02 BUILDING SECTIONS MWTC 191 A6.01 PLAN DETAILS MWTC 191 A6.02 SECTION DETAILS MWTC 191 A6.03 PLAN AND SECTION DETAILS MWTC 191 A6.04 PLAN AND SECTION DETAILS MWTC 191 A6.05 PLAN AND SECTION DETAILS MWTC 191 A7.01 INTERIOR ELEVATIONS MWTC 191 A8.01 FINISHES PLAN ARCH - STRUCTURAL MWTC 191 S0.01 GENERAL NOTES - SHEET 1 MWTC 191 S0.02 GENERAL NOTES - SHEET 2 MWTC 191 S0.03 TYPICAL DETAILS - SHEET 1 MWTC 191 S0.04 TYPICAL DETAILS - SHEET 2 MWTC 191 S0.05 TYPICAL DETAILS - SHEET 3 MWTC 191 S0.06 TYPICAL DETAILS - SHEET 4 MWTC 191 S0.07 TYPICAL DETAILS - SHEET 5 MWTC 191 S0.50 3D VIEW - BUILDING MWTC 191 S0.51 3D VIEW - WALKWAY MWTC 191 S2.00 OVERALL GRID PLAN MWTC 191 S2.01 PILE LAYOUT PLAN MWTC 191 S2.02 MAIN FLOOR FRAMING PLAN MWTC 191 S2.03 ROOF FRAMING PLANS - SHEET 1 MWTC 191 S2.04 ROOF FRAMING PLANS - SHEET 2 MWTC 191 S2.05 ROOF FRAMING PLANS - SHEET 3 MWTC 191 S2.06 WALKWAY FOUNDATION AND MAIN FLOOR FRAMING PLANS MWTC 191 S2.07 WALKWAY ROOF FRAMING PLANS MWTC 191 S3.00 EXTERIOR ELEVATIONS - SHEET 1 MWTC 191 S3.01 EXTERIOR ELEVATIONS - SHEET 2 MWTC 191 S3.02 EXTERIOR ELEVATIONS - SHEET 3 MWTC 191 S3.03 BUILDING CROSS SECTIONS MWTC 191 S5.01 STEEL SECTIONS - SHEET 1 MWTC 191 S5.02 STEEL SECTIONS - SHEET 2 MWTC 191 S5.03 STEEL SECTIONS - SHEET 3		ARCH - MECHANICAL MWTC 191 M0.01 LEGEND & DRAWING LIST MWTC 191 M2.01 FOUNDATION PLAN MWTC 191 M2.02 PIPING PLAN MWTC 191 M2.03 VENTILATION PLAN MWTC 191 M2.04 ROOF PLAN MWTC 191 M3.01 LARGE SCALE PLANS AND SECTIONS MWTC 191 M6.01 SCHEDULES AND DETAILS ARCH - ELECTRICAL MWTC 191 E0.01 ELECTRICAL DEMOLITION PLAN MWTC 191 E0.02 ELECTRICAL DEMOLITION PLAN MWTC 191 E1.01 ELECTRICAL SITE PLANS MWTC 191 E1.02 ELECTRICAL SITE PLANS MWTC 191 E2.01 LIGHTING AND POWER PLANS MWTC 191 E2.02 LOW TENSION AND LARGE SCALE PLANS MWTC 191 E3.01 SINGLE LINE DIAGRAMS AND RISERS MWTC 191 E3.02 SCHEDULES MWTC 191 E4.01 ELECTRICAL DETAILS MWTC 191 E4.02 ELECTRICAL DETAILS MWTC 191 E4.03 ELECTRICAL DETAILS MWTC 191 E4.04 ELECTRICAL DETAILS			

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ISL Engineering and Land Services
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A1 bar scale
1:500
0 5 15 25m

drawn by R. MULLER
designed by K. LAU
checked by D. MARTIN
date 03-05-2019

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Signature
Date 2019-05-06
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Professional Engineer
2019-05-06

AECOM
Prime Consultant

Edmonton

prime consultant job no 14677

HATCH

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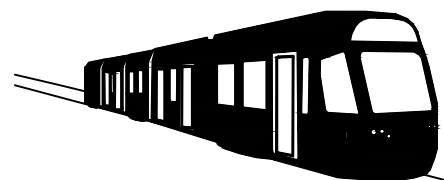
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ISL Engineering and Land Services

DIALOG

gac architecture

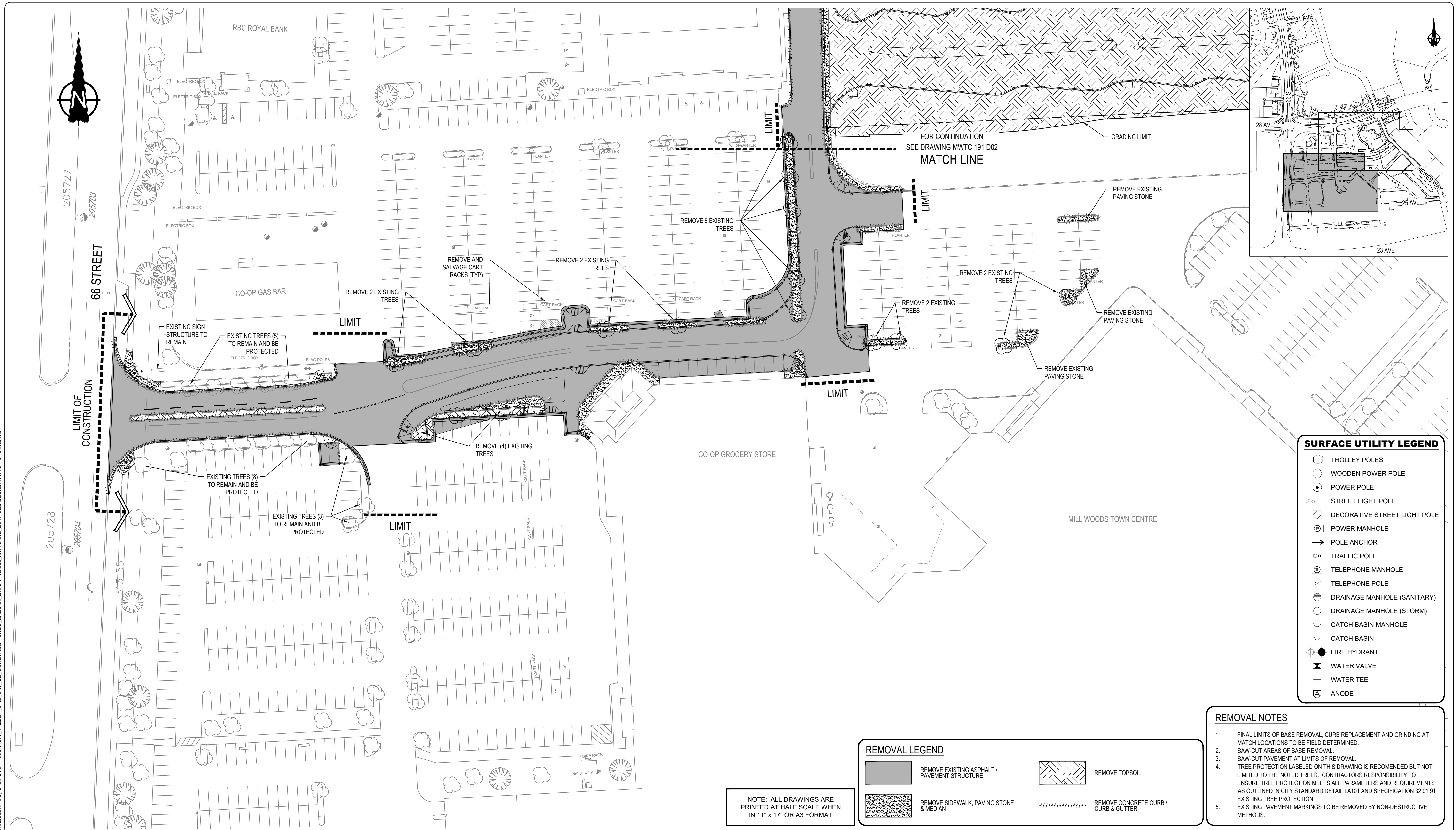
drawing title
MILL WOODS TRANSIT CENTRE
DRAWING INDEX - ARCHITECTURAL



VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 003
REV 0
SHT

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SURFACE UTILITY LEGEND

	TROLLEY POLES
	WOODEN POWER POLE
	POWER POLE
	STREET LIGHT POLE
	DECORATIVE STREET LIGHT POLE
	POWER MANHOLE
	POLE ANCHOR
	TRAFFIC POLE
	TELEPHONE MANHOLE
	TELEPHONE POLE
	DRAINAGE MANHOLE (SANITARY)
	DRAINAGE MANHOLE (STORM)
	CATCH BASIN MANHOLE
	CATCH BASIN
	FIRE HYDRANT
	WATER VALVE
	WATER TEE
	ANODE

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" OR A3 FORMAT

REMOVAL LEGEND

	REMOVE EXISTING ASPHALT / PAVEMENT STRUCTURE
	REMOVE TOPSOIL
	REMOVE SIDEWALK, PAVING STONE & MEDIAN
	REMOVE CONCRETE CURB / CURB & GUTTER

- REMOVAL NOTES**
- FINAL LIMITS OF BASE REMOVAL, CURB REPLACEMENT AND GRINDING AT MATCH LOCATIONS TO BE FIELD DETERMINED.
 - SAW-CUT AREAS OF BASE REMOVAL.
 - SAW-CUT PAVEMENT AT LIMITS OF REMOVAL.
 - TREE PROTECTION LABELED ON THIS DRAWING IS RECOMMENDED BUT NOT LIMITED TO THE NOTED TREES. CONTRACTORS RESPONSIBILITY TO ENSURE TREE PROTECTION MEETS ALL PARAMETERS AND REQUIREMENTS AS OUTLINED IN CITY STANDARD DETAIL LA101 AND SPECIFICATION 32 01 91 EXISTING TREE PROTECTION.
 - EXISTING PAVEMENT MARKINGS TO BE REMOVED BY NON-DESTRUCTIVE METHODS.

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	revisions		

ISL Engineering and Land Services Consultant

A1 bar scale
1:500
0 5 15 25m

drawn by R. MULLER
checked by D. MARTIN

designed by K. LAU
date 03-05-2019

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Date 2019-05-06
PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

consultant job no 14677

Professional Engineering
2019-05-06

consultant reviewed by B. CAMPBELL

AECOM Prime Consultant

Edmonton

prime consultant job no

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DIALOG

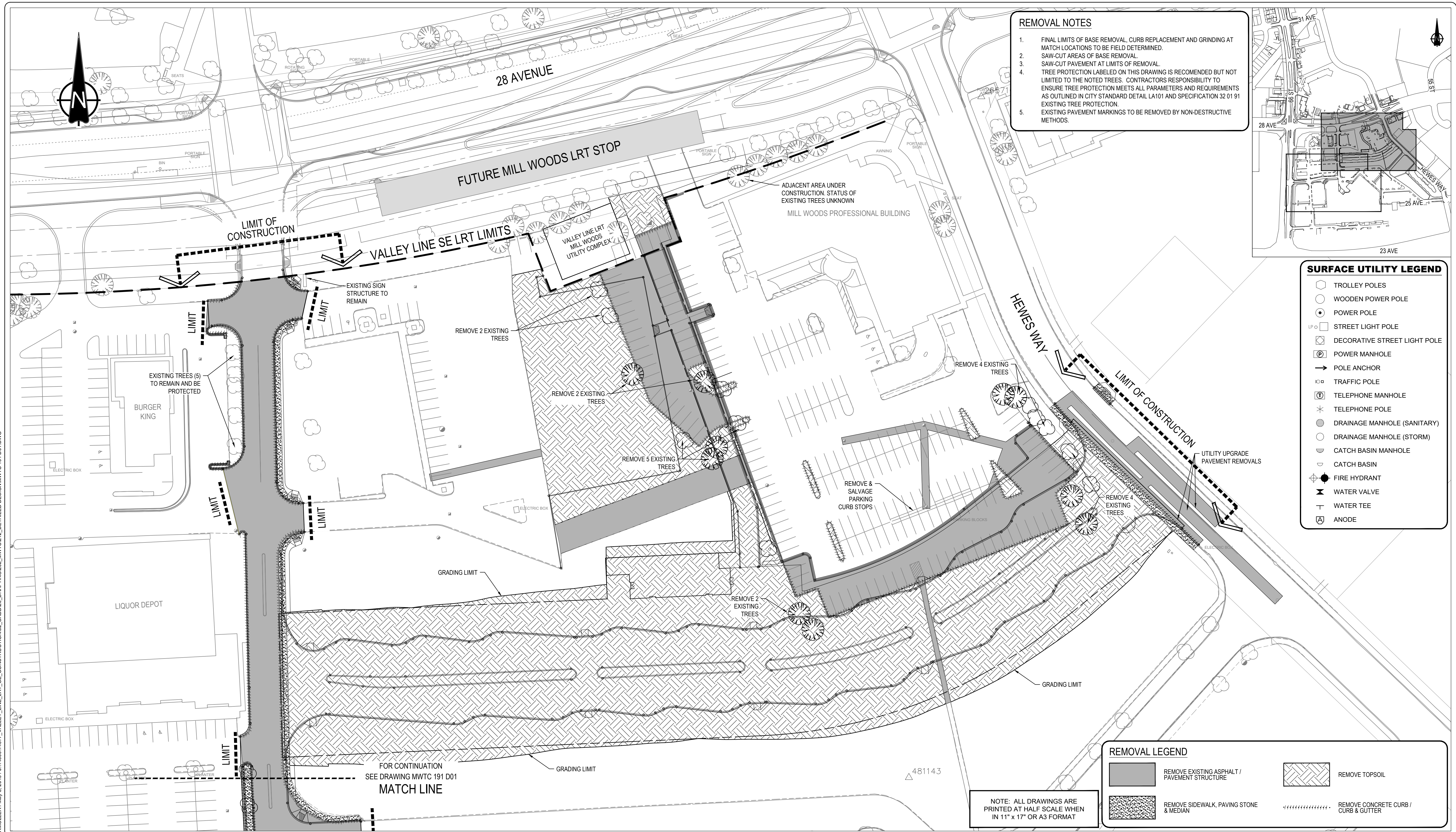
gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
REMOVAL

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 D01
REV 0
SHT

RMULLER / May 3, 2019 / J1146001487 / VALLEY_LINE_LRT_DE_CONSTRUCTION02_CADD020_DRAFTING02_MWTC012_DETAILED DESIGN/MWTC 191 D01.DWG



- REMOVAL NOTES**
- FINAL LIMITS OF BASE REMOVAL, CURB REPLACEMENT AND GRINDING AT MATCH LOCATIONS TO BE FIELD DETERMINED.
 - SAW-CUT AREAS OF BASE REMOVAL.
 - SAW-CUT PAVEMENT AT LIMITS OF REMOVAL.
 - TREE PROTECTION LABELED ON THIS DRAWING IS RECOMMENDED BUT NOT LIMITED TO THE NOTED TREES. CONTRACTORS RESPONSIBILITY TO ENSURE TREE PROTECTION MEETS ALL PARAMETERS AND REQUIREMENTS AS OUTLINED IN CITY STANDARD DETAIL LA101 AND SPECIFICATION 32 01 91 EXISTING TREE PROTECTION.
 - EXISTING PAVEMENT MARKINGS TO BE REMOVED BY NON-DESTRUCTIVE METHODS.

- SURFACE UTILITY LEGEND**
- TROLLEY POLES
 - WOODEN POWER POLE
 - POWER POLE
 - STREET LIGHT POLE
 - DECORATIVE STREET LIGHT POLE
 - POWER MANHOLE
 - POLE ANCHOR
 - TRAFFIC POLE
 - TELEPHONE MANHOLE
 - TELEPHONE POLE
 - DRAINAGE MANHOLE (SANITARY)
 - DRAINAGE MANHOLE (STORM)
 - CATCH BASIN MANHOLE
 - CATCH BASIN
 - FIRE HYDRANT
 - WATER VALVE
 - WATER TEE
 - ANODE

- REMOVAL LEGEND**
- REMOVE EXISTING ASPHALT / PAVEMENT STRUCTURE
 - REMOVE TOPSOIL
 - REMOVE SIDEWALK, PAVING STONE & MEDIAN
 - REMOVE CONCRETE CURB / CURB & GUTTER

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" OR A3 FORMAT

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A1 bar scale
0 5 15 25m
1:500

drawn by R. MULLER
checked by D. MARTIN

designed by K. LAU
date 03-05-2019

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Signature
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consultant job no 14677

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consultant reviewed by B. CAMPBELL

AECOM
Prime Consultant

Edmonton
prime consultant job no

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ISL Engineering and Land Services

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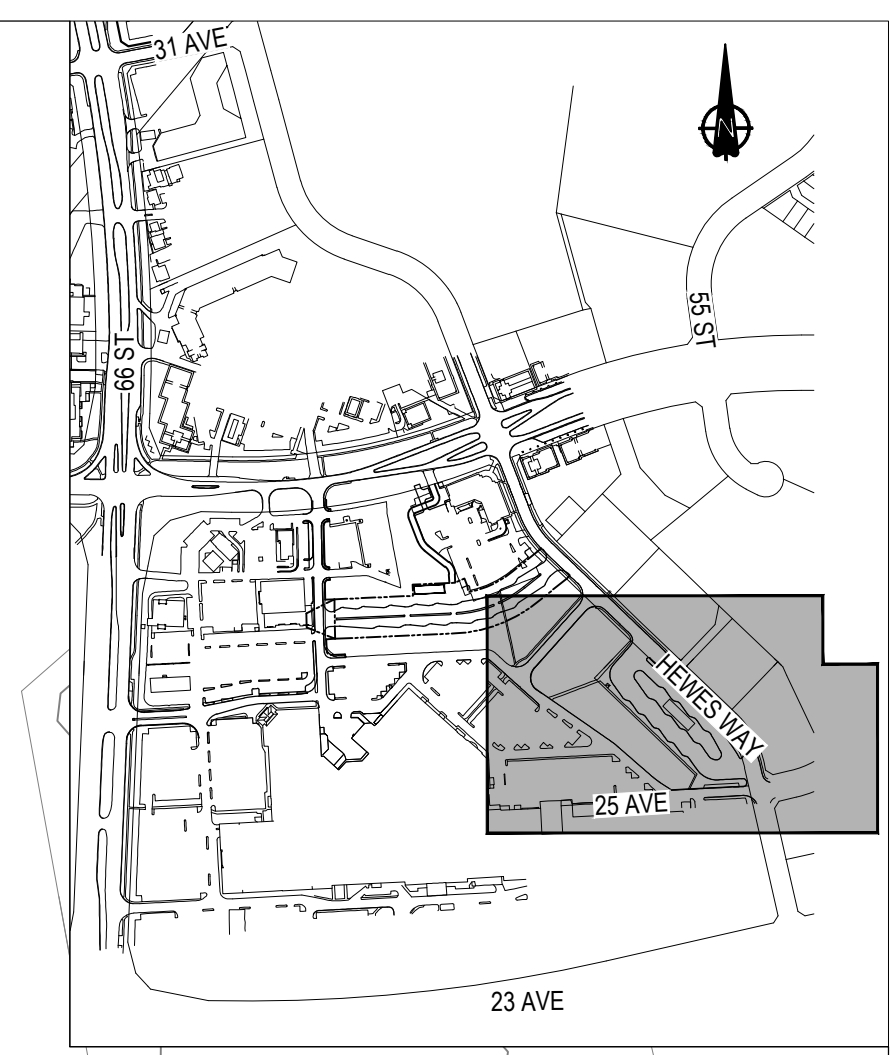
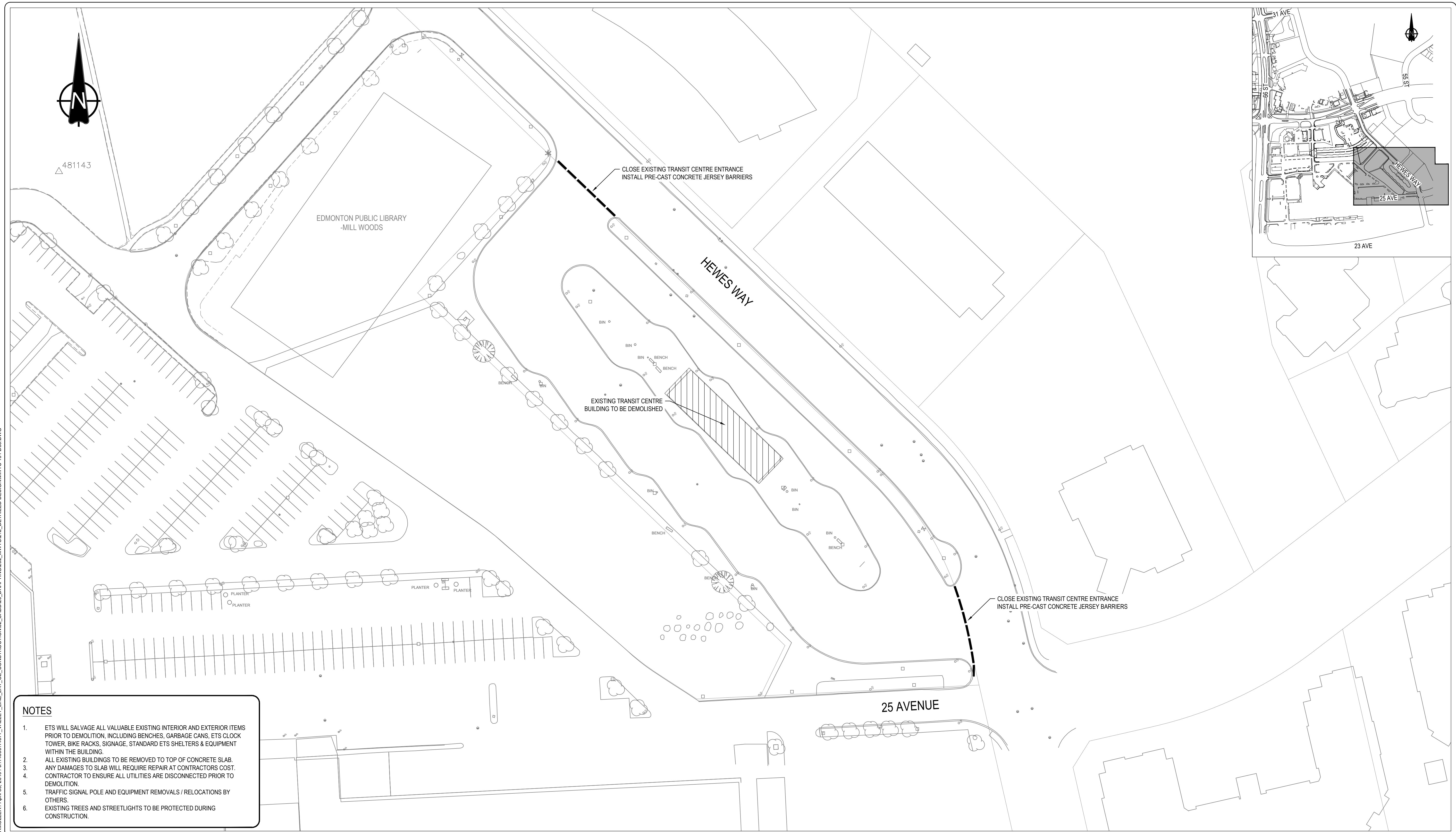
gac architecture

drawing title
MILL WOODS TRANSIT CENTRE
REMOVAL

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 D02**
REV 0
SHT

RMULLER / April 30, 2019 / J:\1460014677_VALLEY_LINE_LRT_DE_CONSTRUCTION\2_CADD\20_DRAFTING\202_MWTC\212_DETAILED DESIGN\MWTC 191 D03.DWG



NOTES

1. ETS WILL SALVAGE ALL VALUABLE EXISTING INTERIOR AND EXTERIOR ITEMS PRIOR TO DEMOLITION, INCLUDING BENCHES, GARBAGE CANS, ETS CLOCK TOWER, BIKE RACKS, SIGNAGE, STANDARD ETS SHELTERS & EQUIPMENT WITHIN THE BUILDING.
2. ALL EXISTING BUILDINGS TO BE REMOVED TO TOP OF CONCRETE SLAB.
3. ANY DAMAGES TO SLAB WILL REQUIRE REPAIR AT CONTRACTORS COST.
4. CONTRACTOR TO ENSURE ALL UTILITIES ARE DISCONNECTED PRIOR TO DEMOLITION.
5. TRAFFIC SIGNAL POLE AND EQUIPMENT REMOVALS / RELOCATIONS BY OTHERS.
6. EXISTING TREES AND STREETLIGHTS TO BE PROTECTED DURING CONSTRUCTION.

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	issue data		
no.	description	date	checked
	revisions		

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A1 bar scale
1:500
0 5 15 25m

drawn by
R. MULLER

designed by
K. LAU

checked by
D. MARTIN

date
03-05-2019

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prime consultant job no

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DIALOG

gac architecture

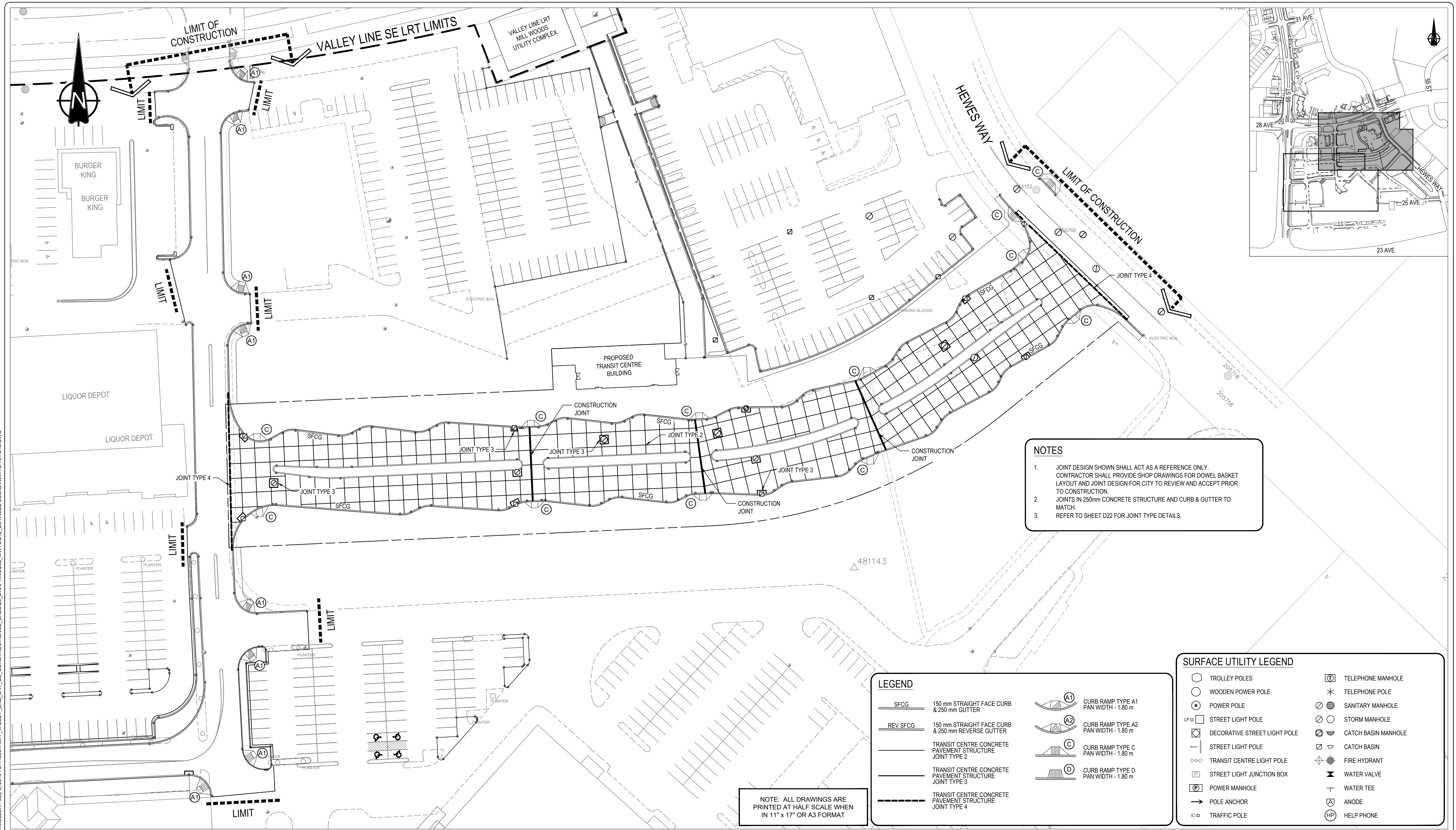
drawing title
MILL WOODS TRANSIT CENTRE
EXISTING TRANSIT CENTRE
HEWES WAY & 25 AVENUE DECOMMISSIONING

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 D03

REV 0
SHT

RMULLER / May 3, 2019 / J:\1460014877_VALLEY_LINE_LRT_DE_CONSTRUCTION02_CADD020_DRAFTING02_MWTC012_DETAILED DESIGN\MWTC 191 D13.DWG



NOTES

- JOINT DESIGN SHOWN SHALL ACT AS A REFERENCE ONLY. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS FOR DOWEL BASKET LAYOUT AND JOINT DESIGN FOR CITY TO REVIEW AND ACCEPT PRIOR TO CONSTRUCTION.
- JOINTS IN 250mm CONCRETE STRUCTURE AND CURB & GUTTER TO MATCH.
- REFER TO SHEET D22 FOR JOINT TYPE DETAILS.

LEGEND

SFCG	150 mm STRAIGHT FACE CURB & 250 mm GUTTER	A1	CURB RAMP TYPE A1 PAN WIDTH - 1.80 m
REV SFCG	150 mm STRAIGHT FACE CURB & 250 mm REVERSE GUTTER	A2	CURB RAMP TYPE A2 PAN WIDTH - 1.80 m
	TRANSIT CENTRE CONCRETE PAVEMENT STRUCTURE JOINT TYPE 2	C	CURB RAMP TYPE C PAN WIDTH - 1.80 m
	TRANSIT CENTRE CONCRETE PAVEMENT STRUCTURE JOINT TYPE 3	D	CURB RAMP TYPE D PAN WIDTH - 1.80 m
	TRANSIT CENTRE CONCRETE PAVEMENT STRUCTURE JOINT TYPE 4		

SURFACE UTILITY LEGEND

	TROLLEY POLES		TELEPHONE MANHOLE
	WOODEN POWER POLE		TELEPHONE POLE
	POWER POLE		SANITARY MANHOLE
	STREET LIGHT POLE		STORM MANHOLE
	DECORATIVE STREET LIGHT POLE		CATCH BASIN MANHOLE
	STREET LIGHT POLE		CATCH BASIN
	TRANSIT CENTRE LIGHT POLE		FIRE HYDRANT
	STREET LIGHT JUNCTION BOX		WATER VALVE
	POWER MANHOLE		WATER TEE
	POLE ANCHOR		ANODE
	TRAFFIC POLE		HELP PHONE

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" OR A3 FORMAT

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	revisions		

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A1 bar scale
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0 5 15 25m

drawn by R. MULLER
checked by D. MARTIN

designed by K. LAU
date 03-05-2019

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consultant job no 14677

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2019-05-06

consultant reviewed by B. CAMPBELL

AECOM Prime Consultant

Edmonton

prime consultant job no

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DIALOG

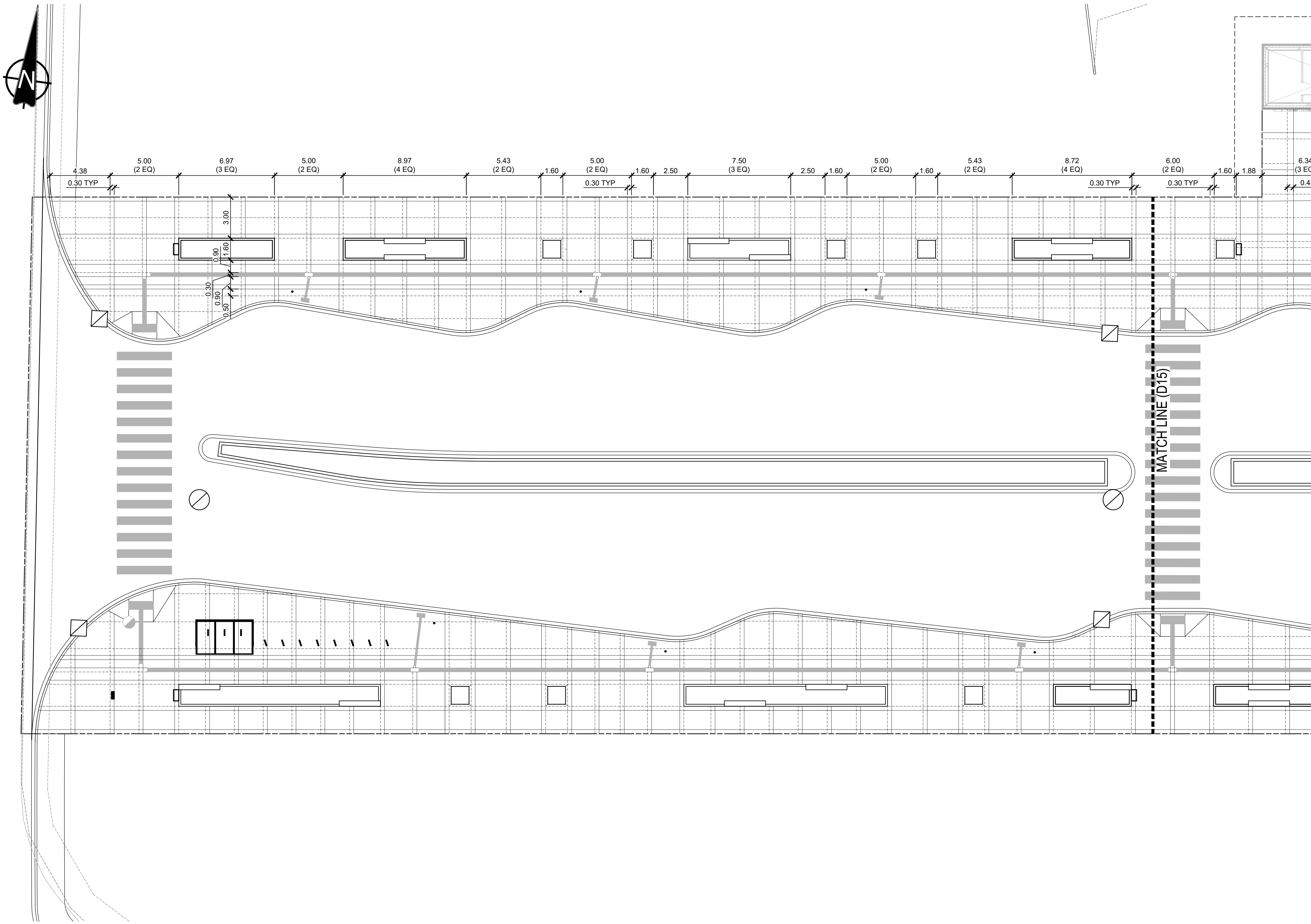
gac architecture

drawing title
MILL WOODS TRANSIT CENTRE
TRANSIT CENTRE JOINT DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

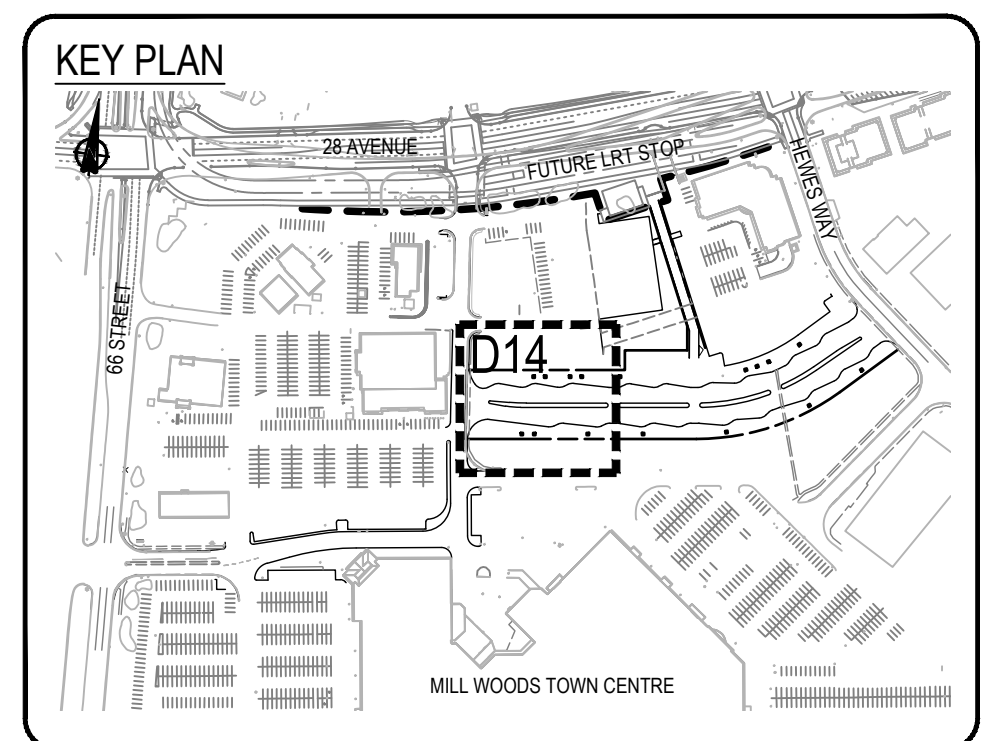
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LEGEND

- FREESTANDING BENCH. SEE ARCHITECTURAL DWG FOR DETAILS.
- PLANTER CURB & SEAT WALL WITH BENCH TOP. SEE D SERIES FOR CONCRETE DETAILS & H20 SERIES FOR BENCH TOP DETAILS.
- TREE GRATE AND FRAME. SEE D SERIES FOR DETAILS.
- CONTROL SAWCUT
- DECORATIVE SAWCUT



DIMENSIONS WILL BE COMPLETED AT IFC

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no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:150
metric

0 2.5 5 7.5m

drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
D. MARTIN

date
03-05-2019

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gpc architecture

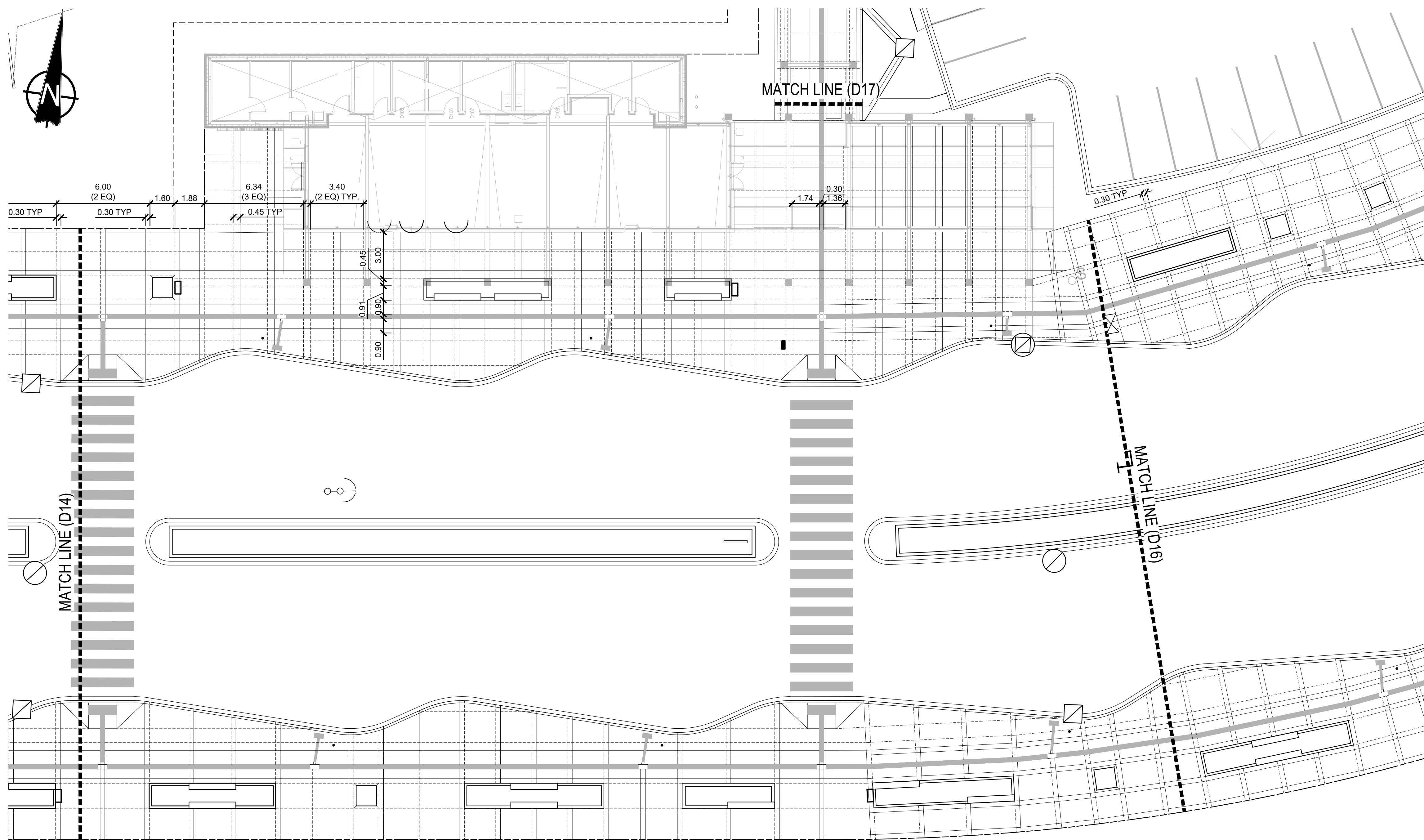
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MILL WOODS TRANSIT CENTRE
SURFACE JOINT LAYOUT

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN


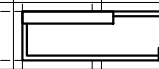
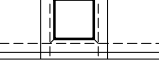
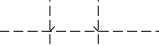

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MWTC 191 D14

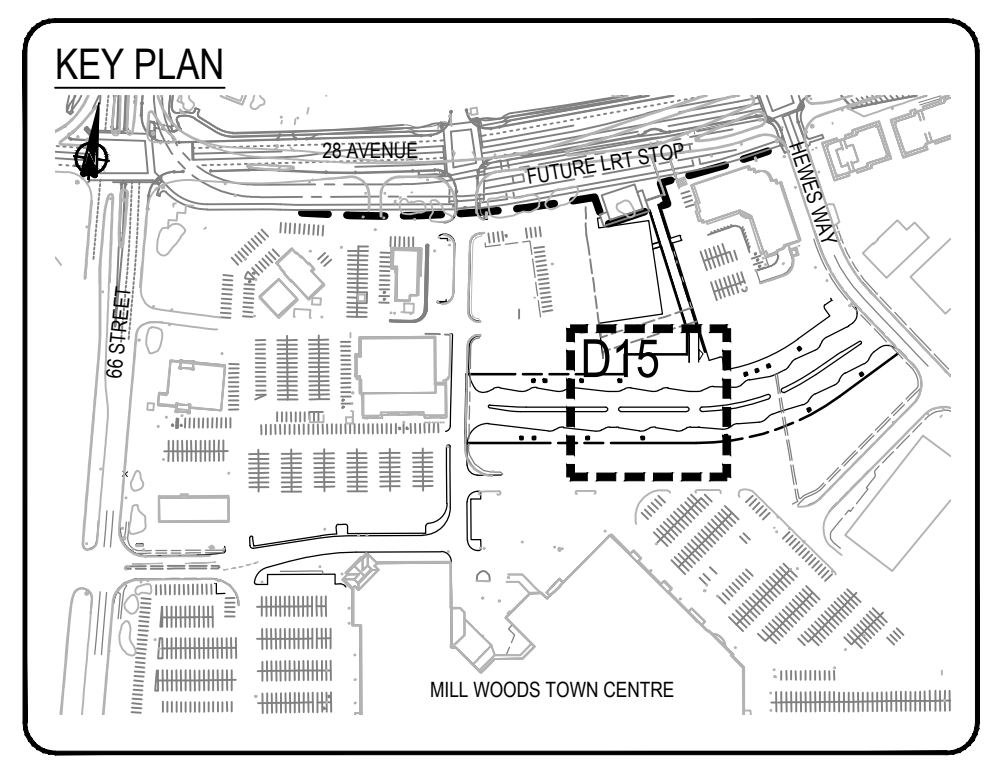
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LEGEND

-  FREESTANDING BENCH. SEE ARCHITECTURAL DWG FOR DETAILS.
-  PLANTER CURB & SEAT WALL WITH BENCH TOP. SEE D SERIES FOR CONCRETE DETAILS & H20 SERIES FOR BENCH TOP DETAILS.
-  TREE GRATE AND FRAME. SEE D SERIES FOR DETAILS.
-  CONTROL SAWCUT
-  DECORATIVE SAWCUT



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A1 bar scale
1:150
metric

0 2.5 5 7.5m

drawn by
D. FRANKLIN

designed by
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B. CAMPBELL

AECOM
Prime Consultant

Edmonton

prime consultant job no
14677

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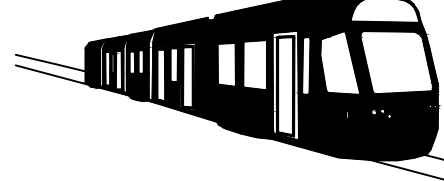
prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
SURFACE JOINT LAYOUT




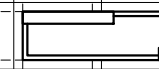
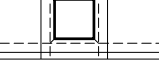
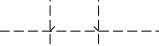

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

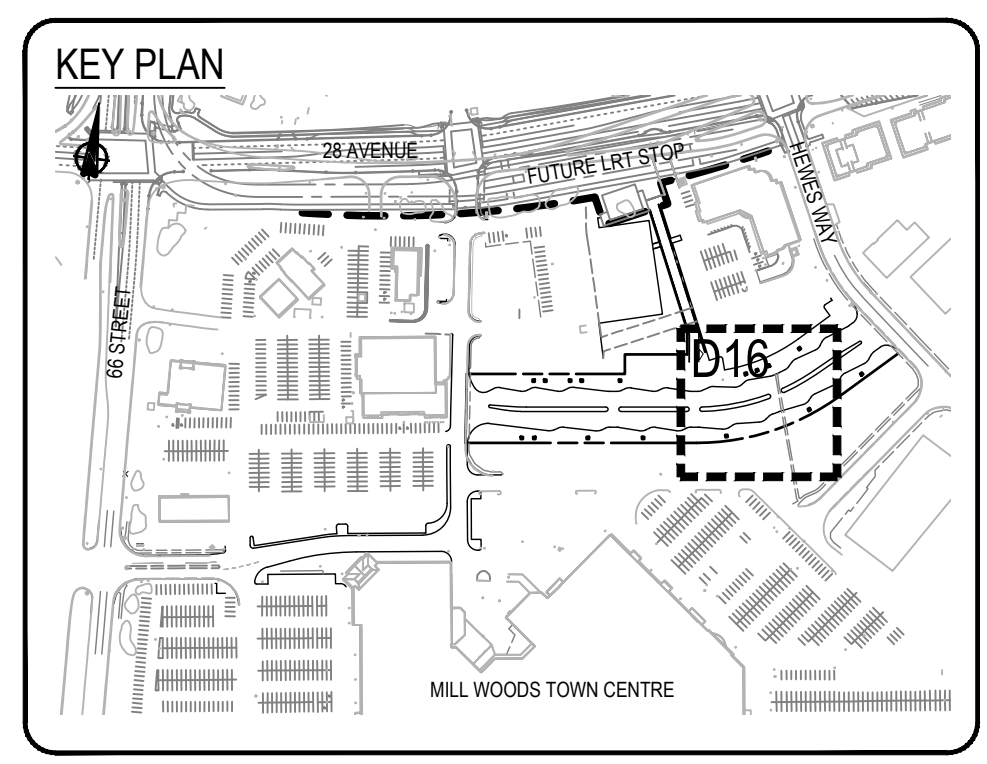
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MWTC 191 D15

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SHT



LEGEND

-  FREESTANDING BENCH. SEE ARCHITECTURAL DWG FOR DETAILS.
-  PLANTER CURB & SEAT WALL WITH BENCH TOP. SEE D SERIES FOR CONCRETE DETAILS & H20 SERIES FOR BENCH TOP DETAILS.
-  TREE GRATE AND FRAME. SEE D SERIES FOR DETAILS.
-  CONTROL SAWCUT
-  DECORATIVE SAWCUT



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	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:150
metric

0 2.5 5 7.5m

drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
D. MARTIN

date
03-05-2019

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.

Signature
Date 2019-05-06

PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

Professional Engineering



2019-05-06

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B. CAMPBELL

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prime consultant job no
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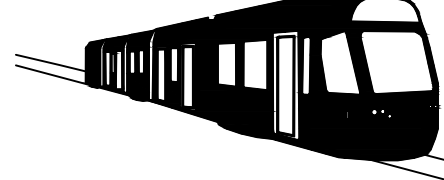
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DIALOG

gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
SURFACE JOINT LAYOUT

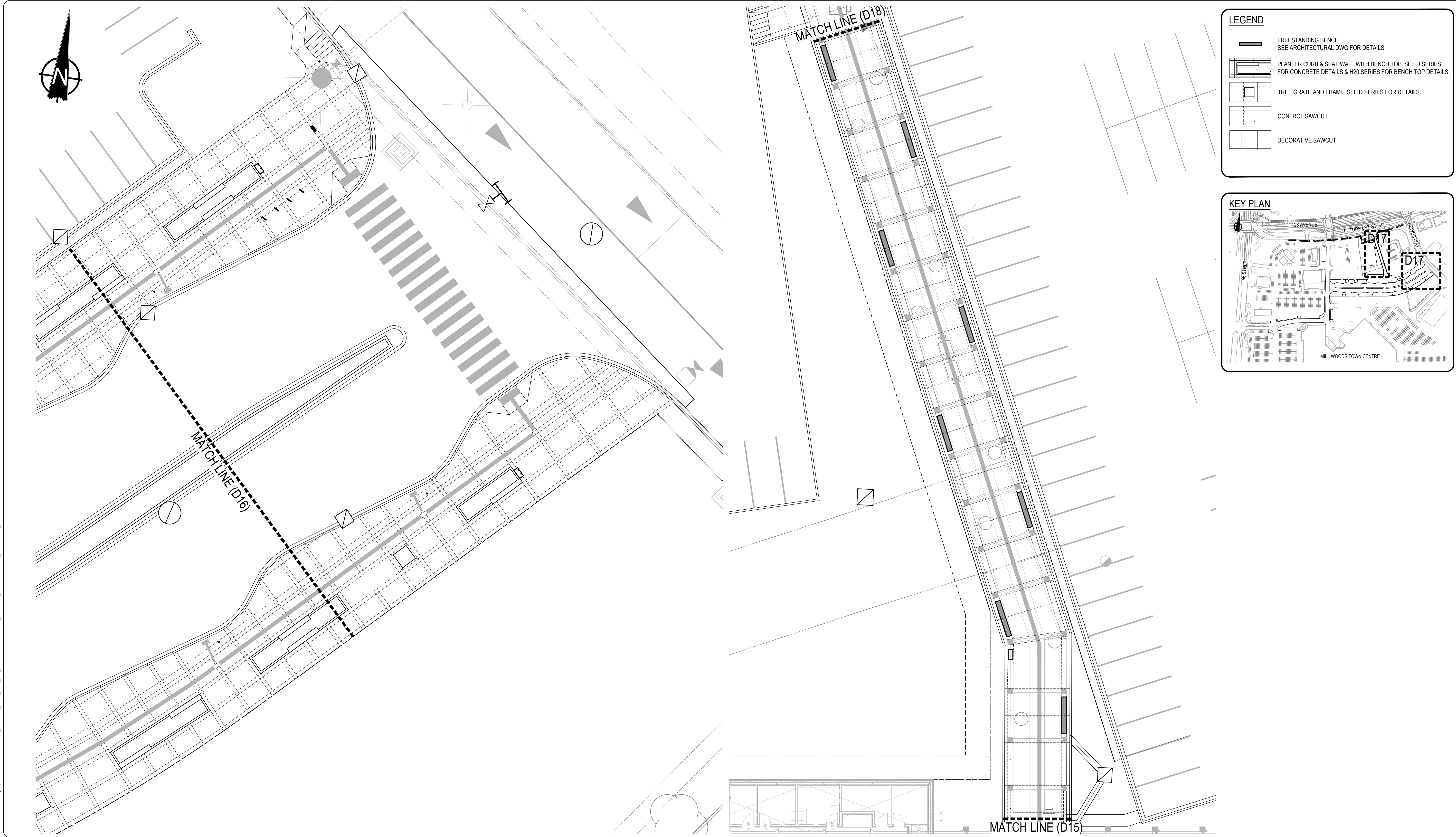


VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 D16

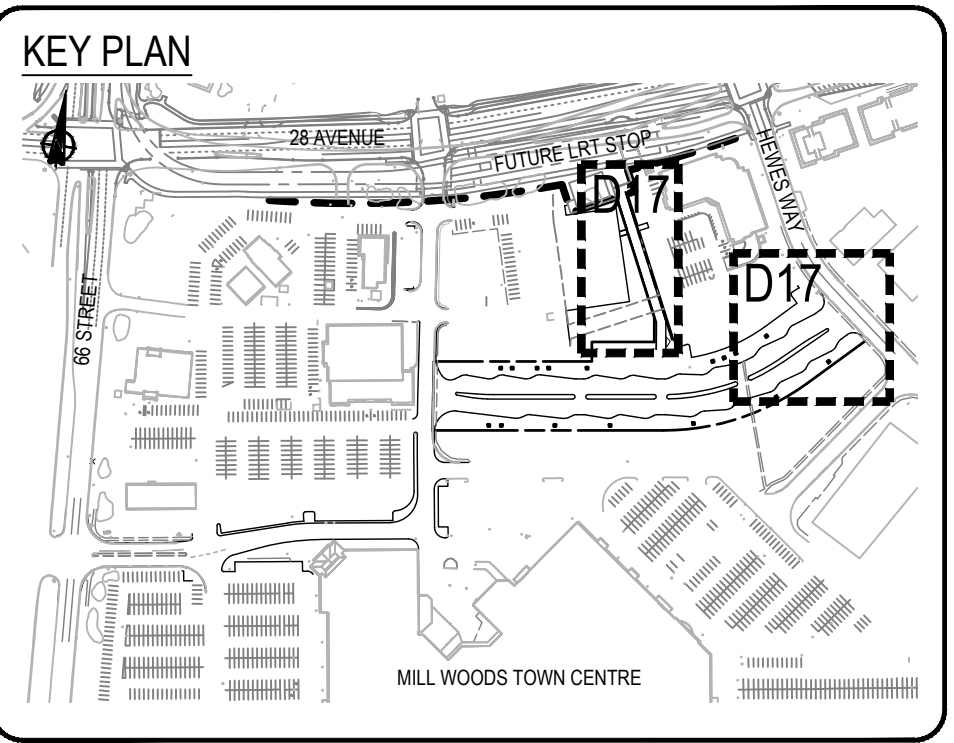
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LEGEND

- FREESTANDING BENCH. SEE ARCHITECTURAL DWG FOR DETAILS.
- PLANTER CURB & SEAT WALL WITH BENCH TOP. SEE D SERIES FOR CONCRETE DETAILS & H20 SERIES FOR BENCH TOP DETAILS.
- TREE GRATE AND FRAME. SEE D SERIES FOR DETAILS.
- CONTROL SAWCUT
- DECORATIVE SAWCUT



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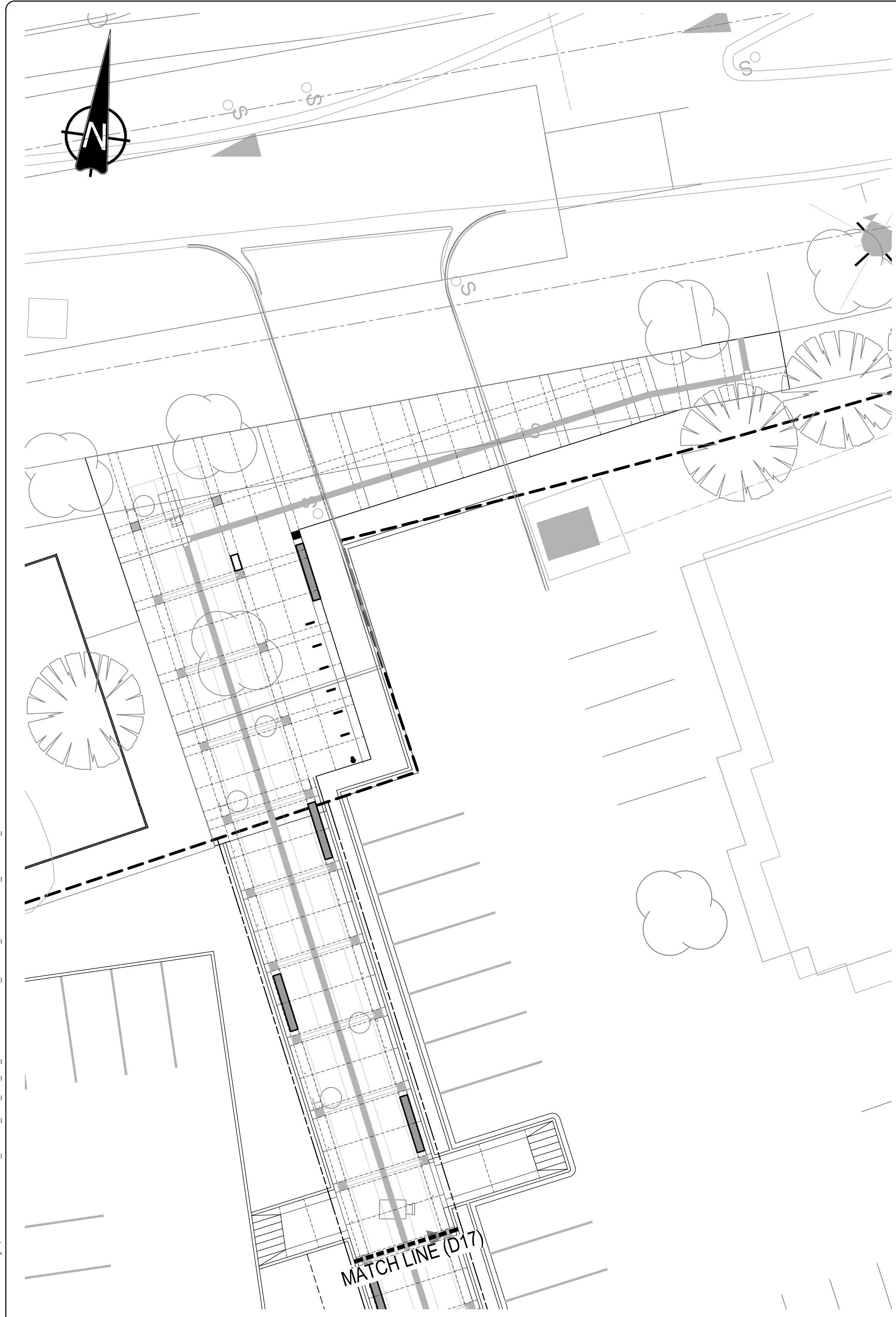
drawing title
MILL WOODS TRANSIT CENTRE
SURFACE JOINT LAYOUT

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN


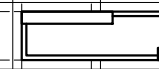
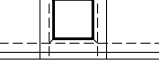
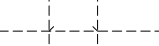

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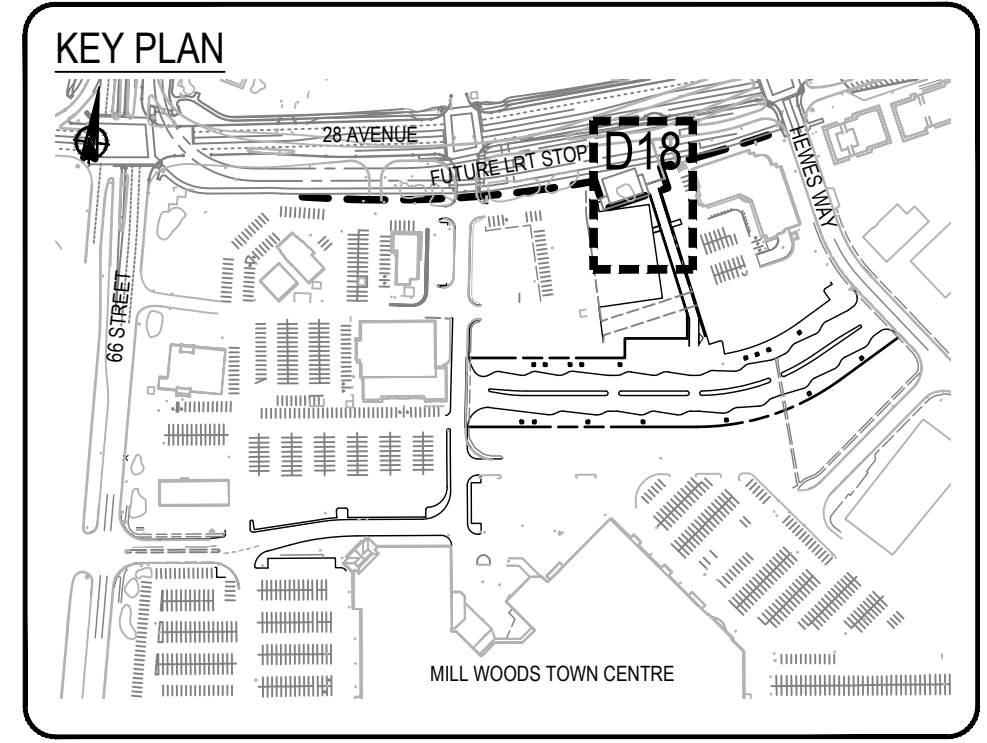
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LEGEND

-  BUS STOP TGS1 & TWS1 PLATES. SEE ARCHITECTURAL DWG FOR DETAILS.
-  PLANTER CURB & SEAT WALL WITH BENCH TOP. SEE D SERIES FOR CONCRETE DETAILS & H20 SERIES FOR BENCH TOP DETAILS.
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-  DECORATIVE SAWCUT




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	revisions		

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drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
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Edmonton

prime consultant job no
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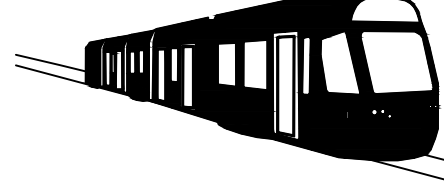
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gpc architecture

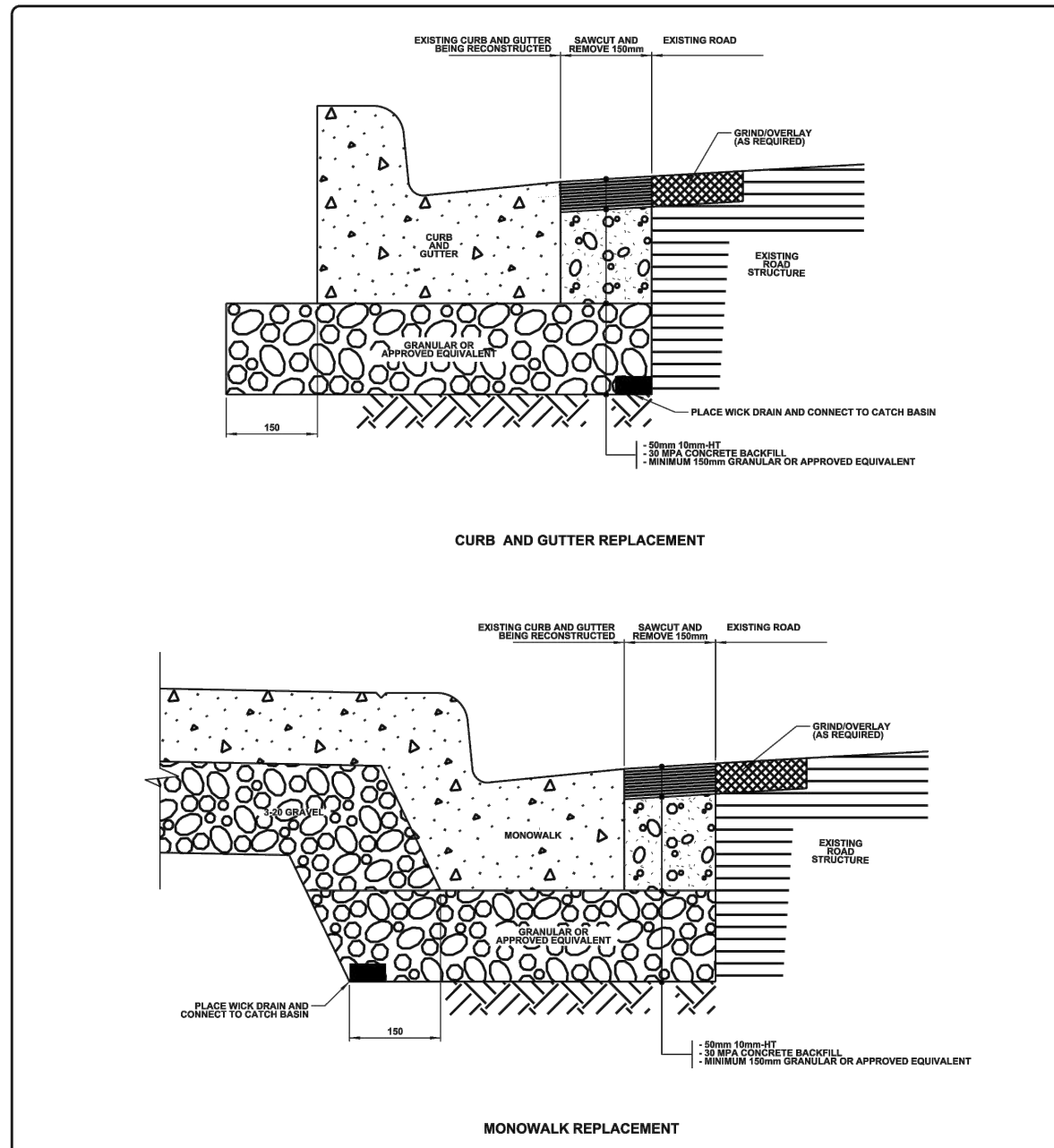
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MILL WOODS TRANSIT CENTRE
SURFACE JOINT LAYOUT



VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

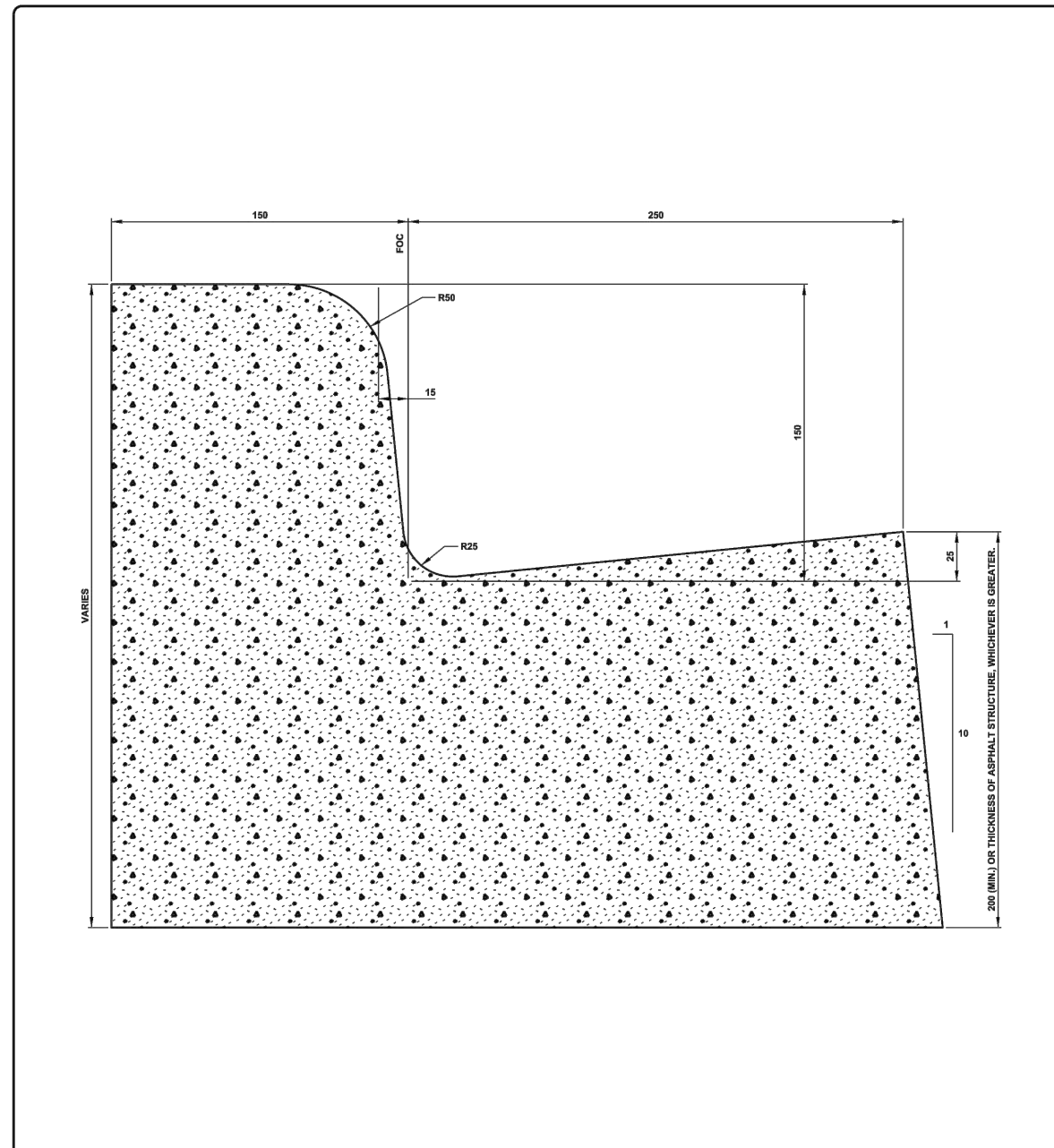
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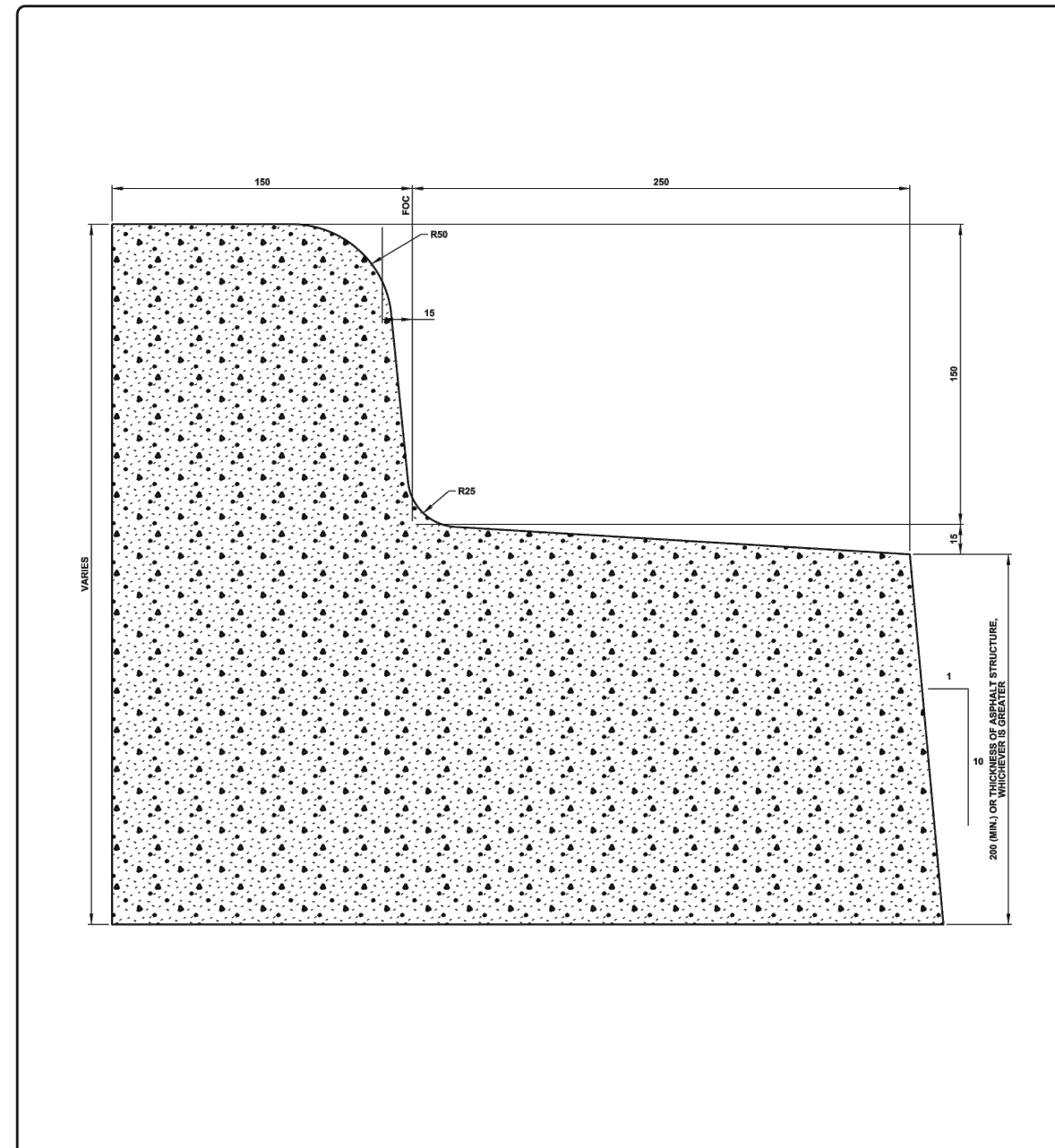
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Edmonton			
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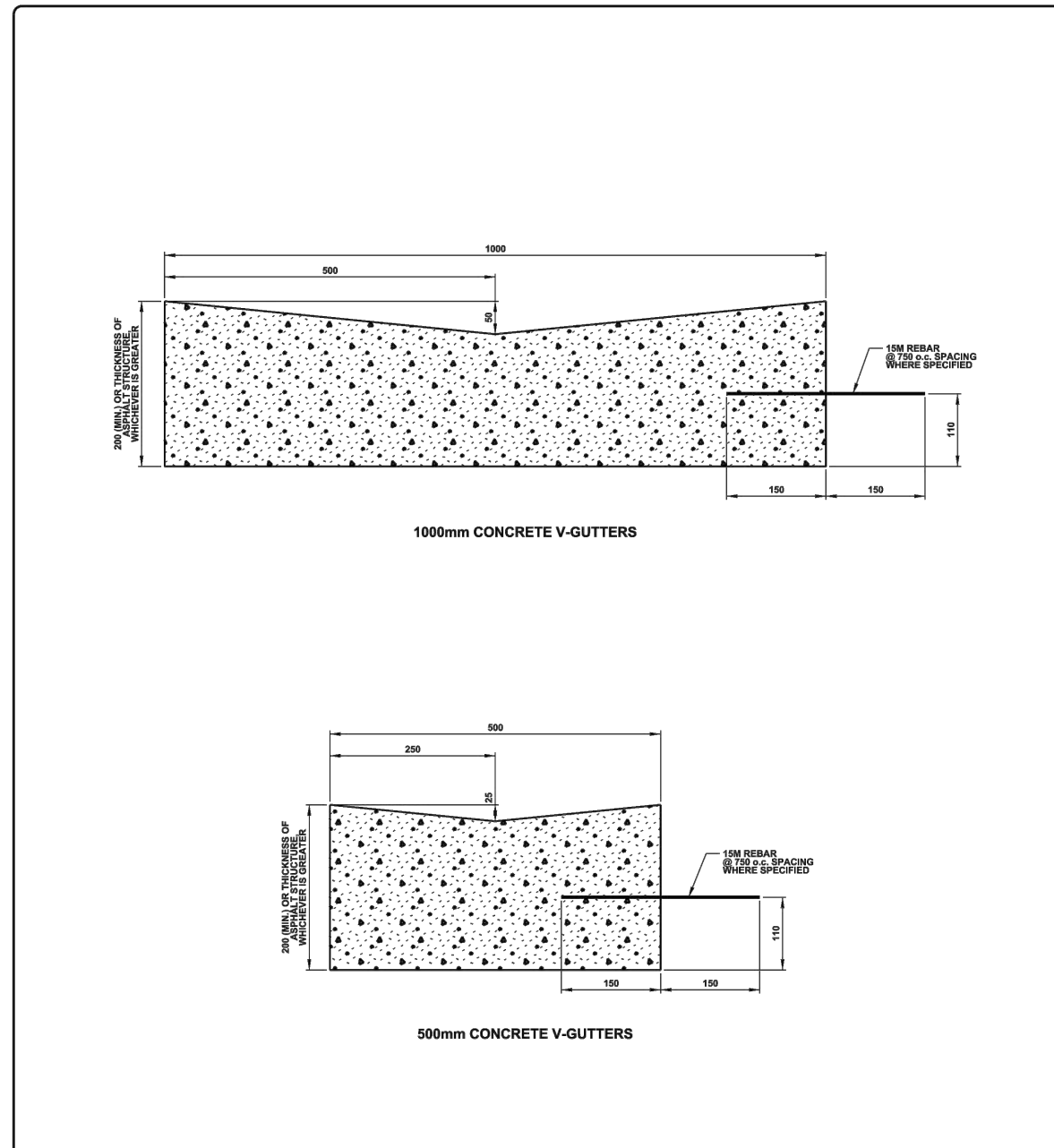
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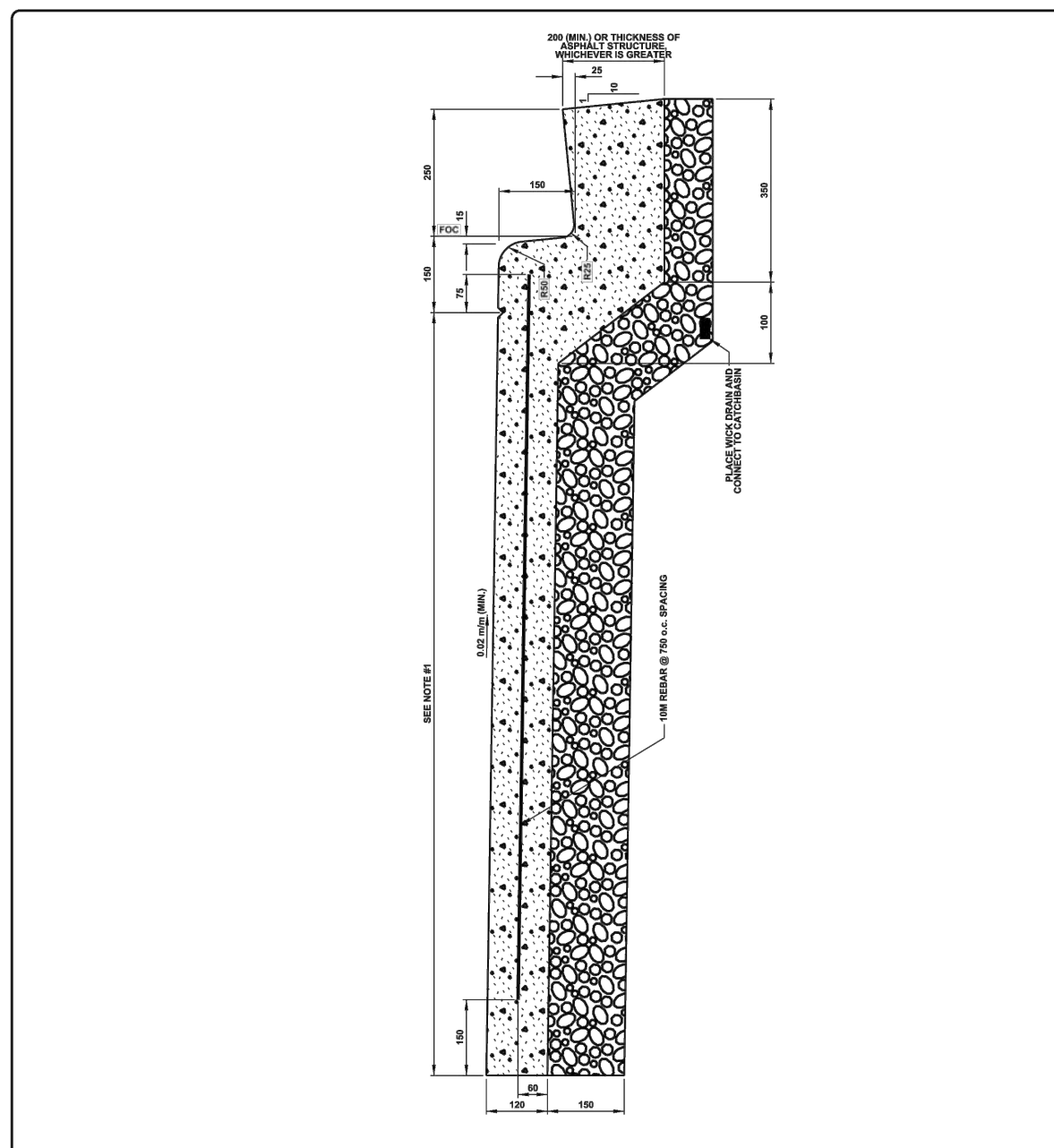
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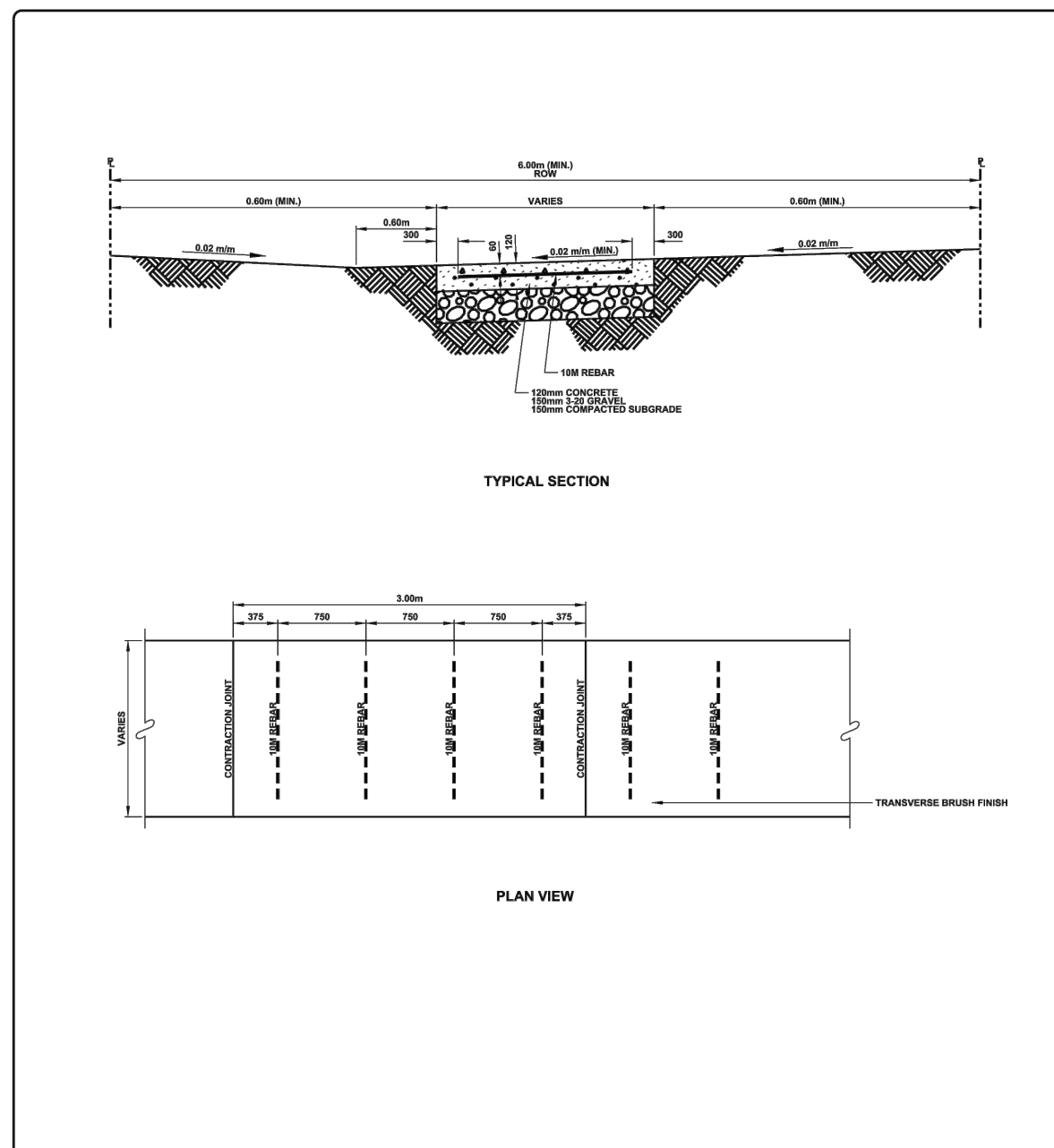
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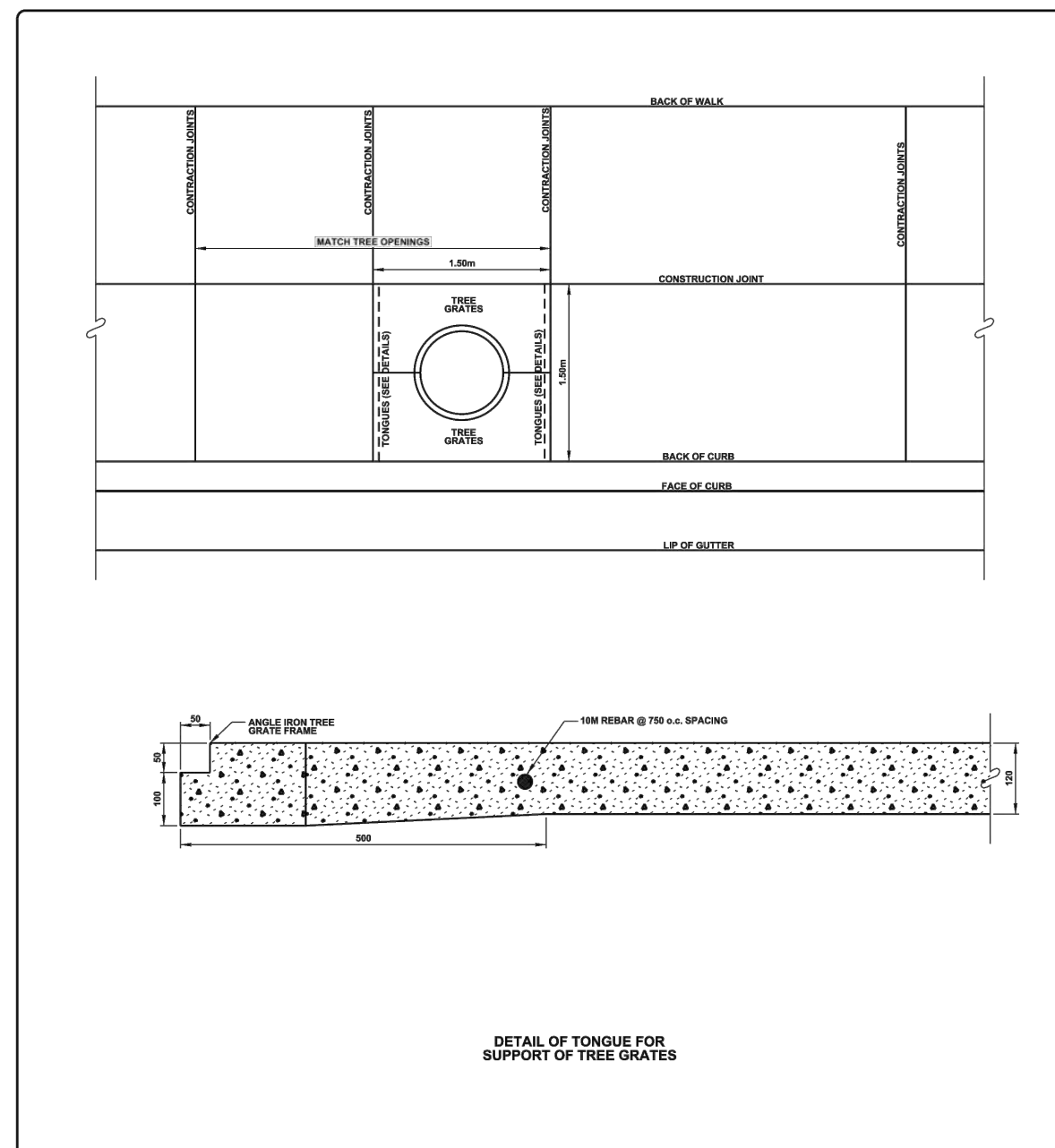
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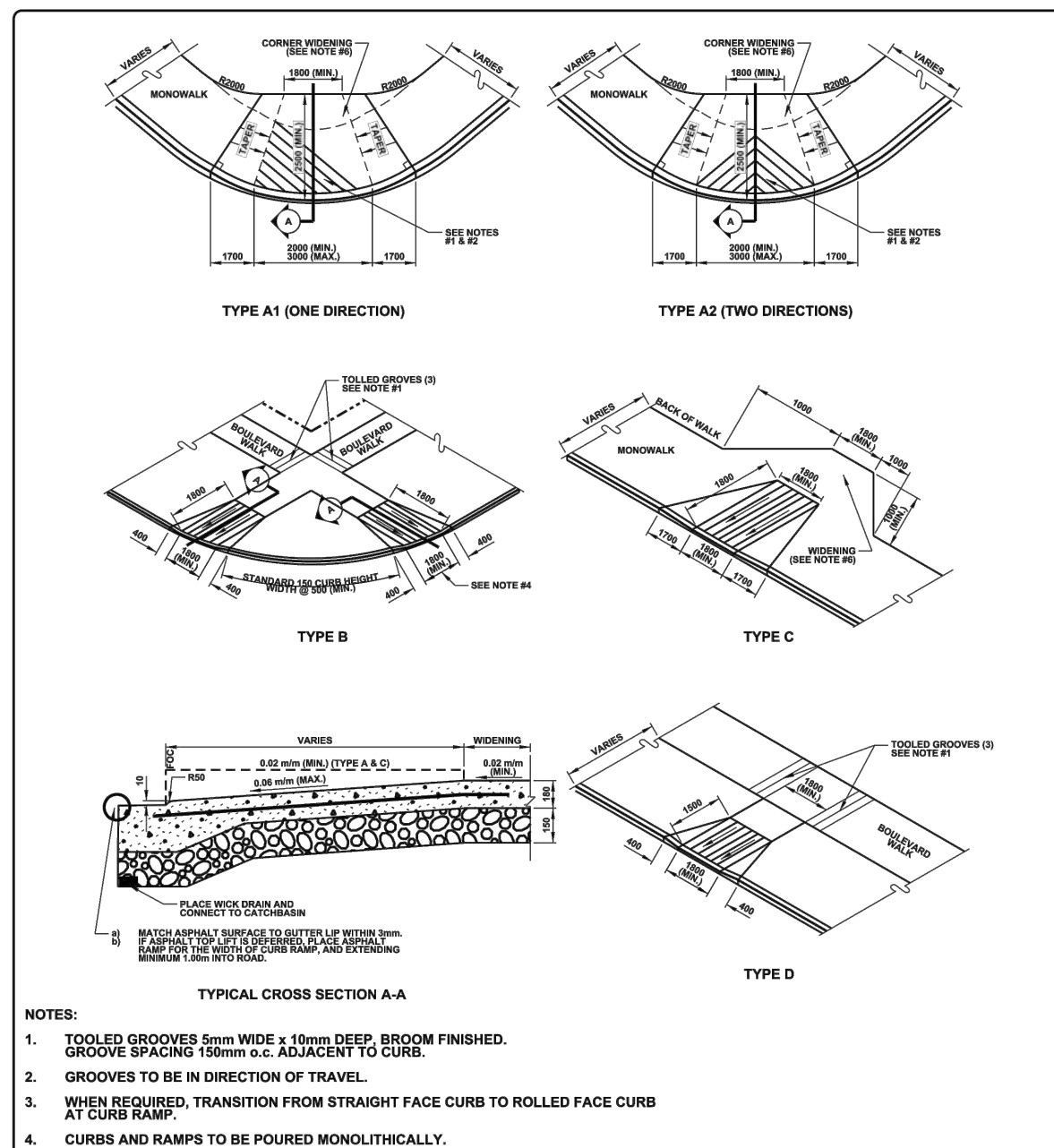
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ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED

Edmonton			
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ALL DIMENSIONS IN MILLIMETRES UNLESS OTHERWISE NOTED

Edmonton			
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Consultant	
drawn by	designed by
R. MULLER	K. LAU
checked by	date
D. MARTIN	03-05-2019

PERMIT TO PRACTICE ISL Engineering and Land Services Ltd. Signature: [Signature] Date: 2019-05-06 PERMIT NUMBER: P 4741 The Association of Professional Engineers and Geoscientists of Alberta	
consultant job no	14677

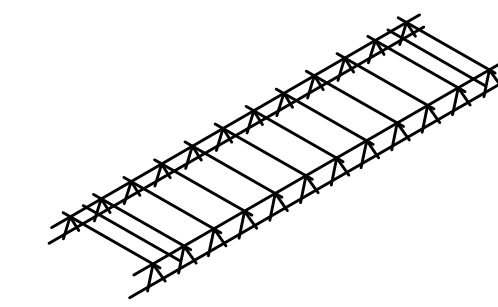
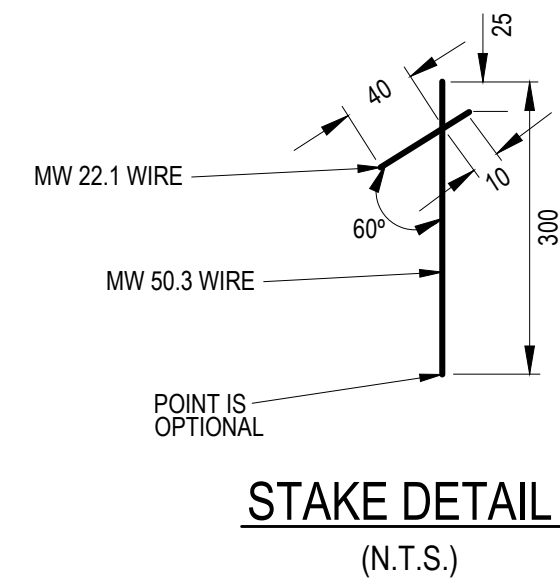
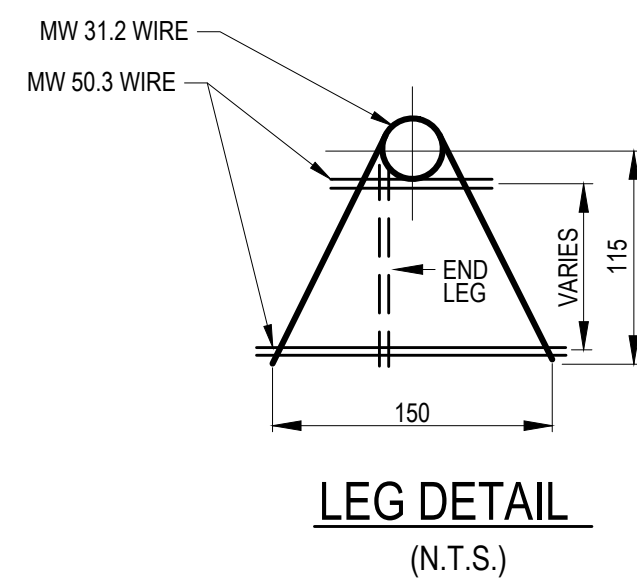
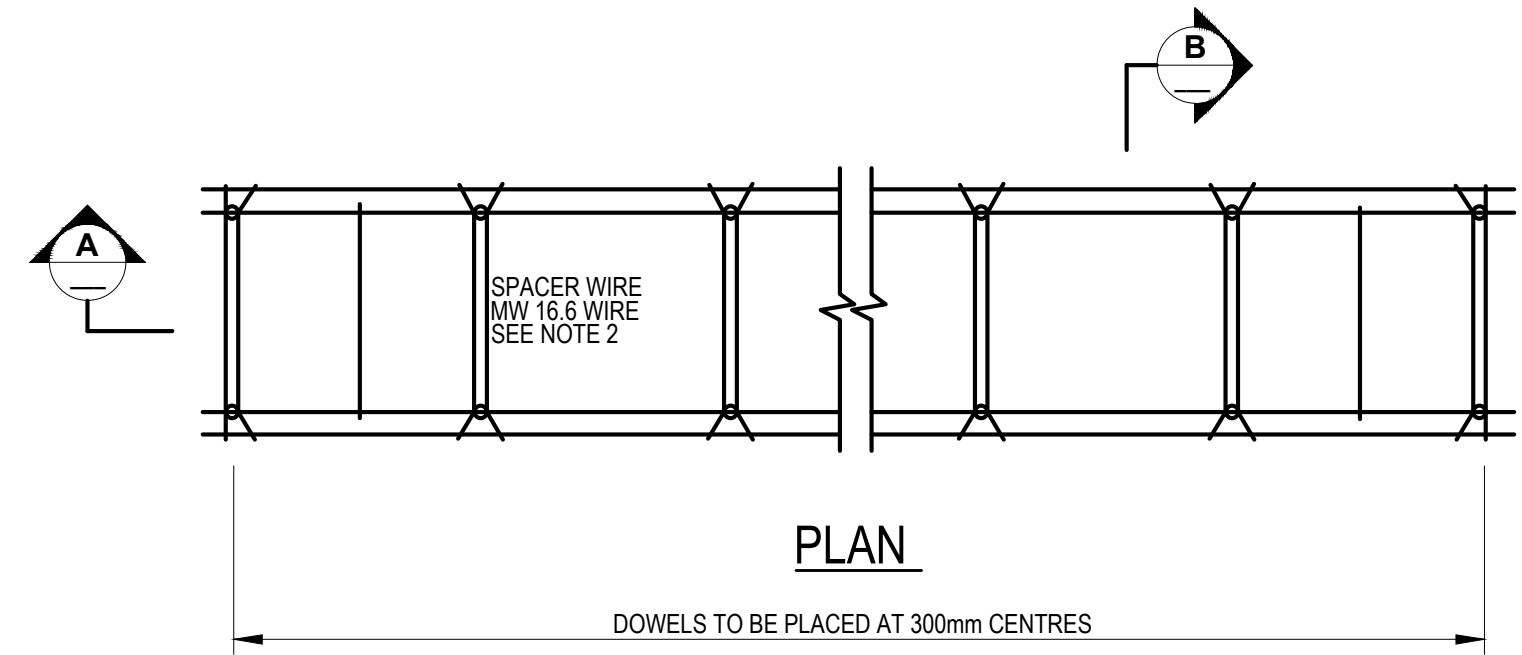
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prime consultant job no	

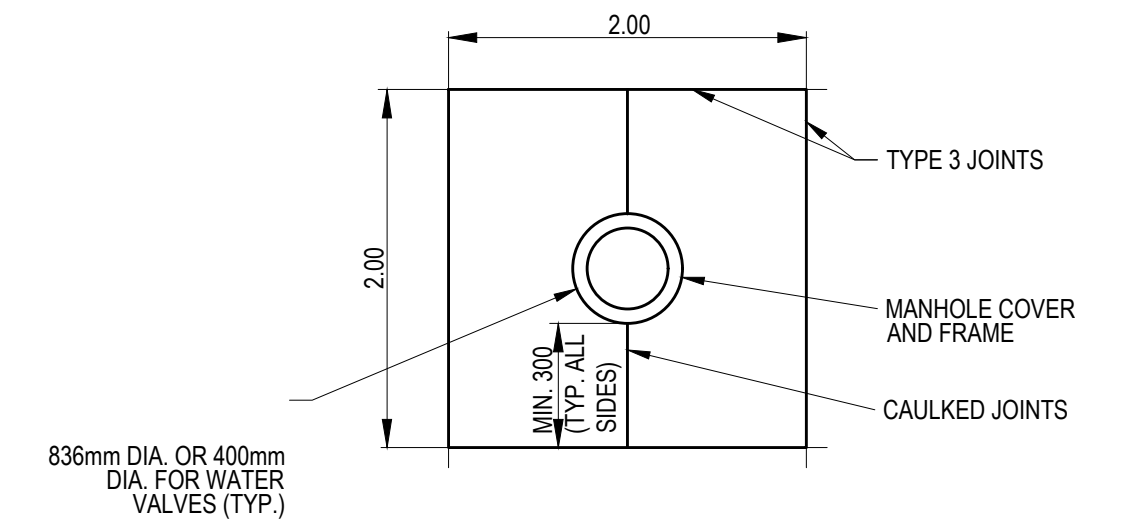
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CITY STANDARD DETAILS	

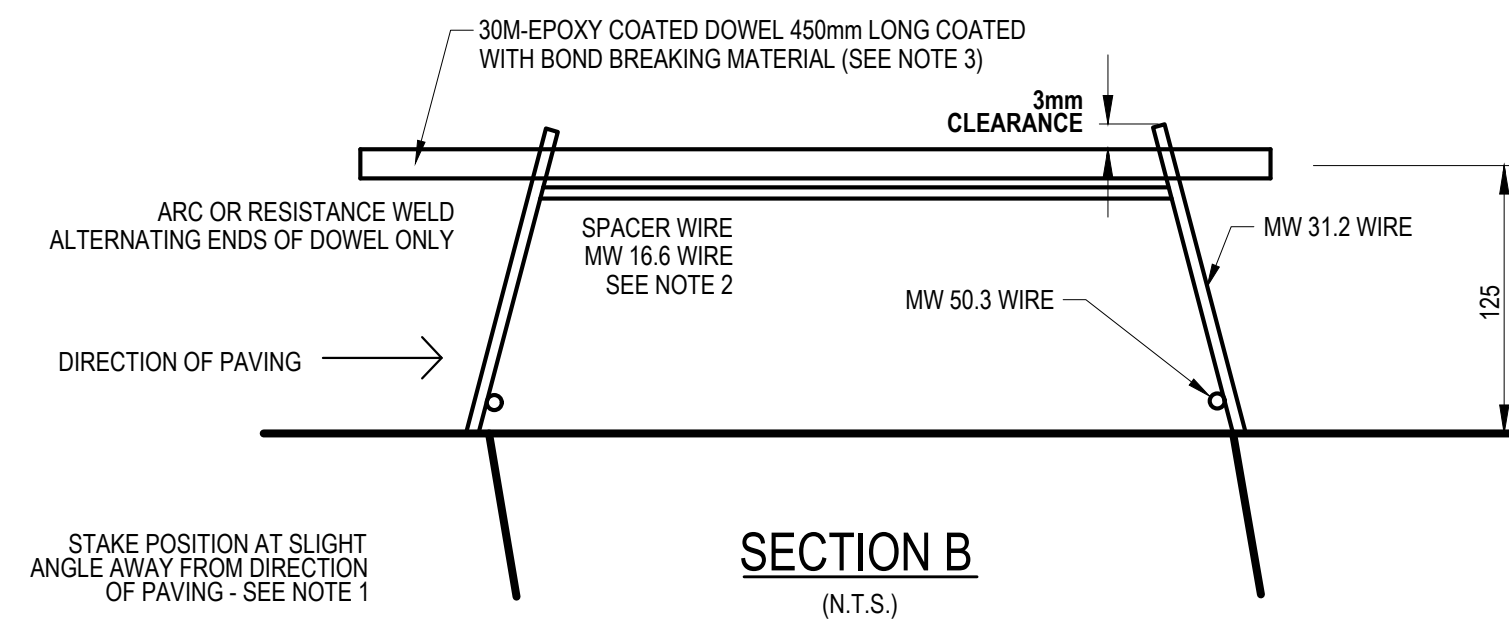
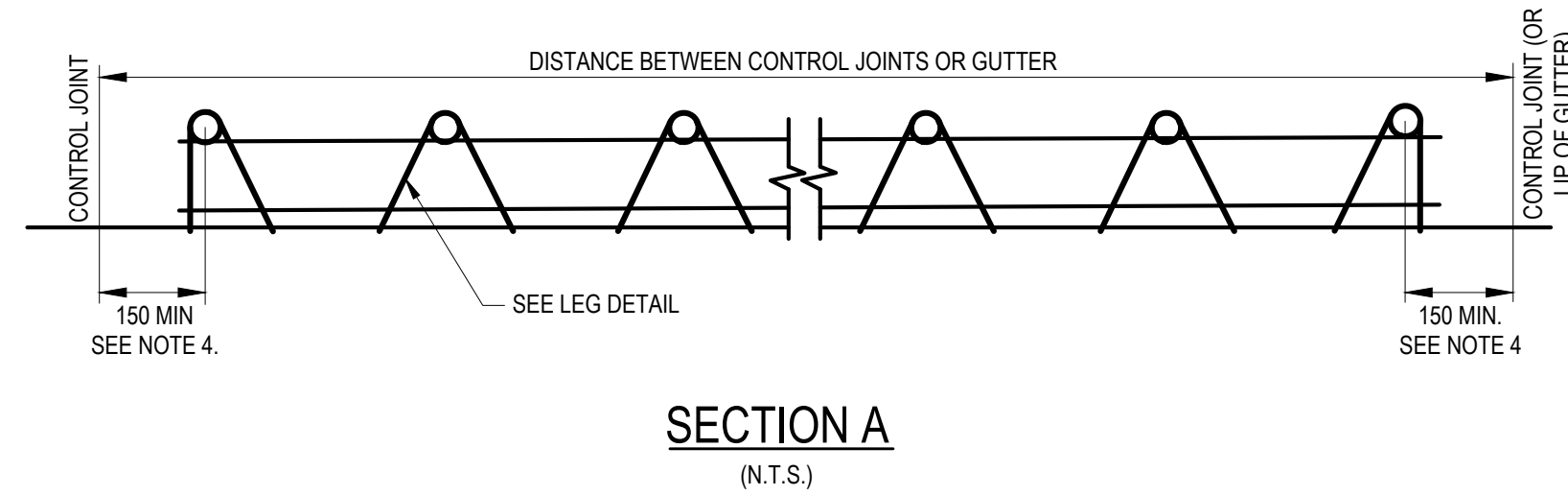
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drawing no.	REV
MWTC 191 D21	0
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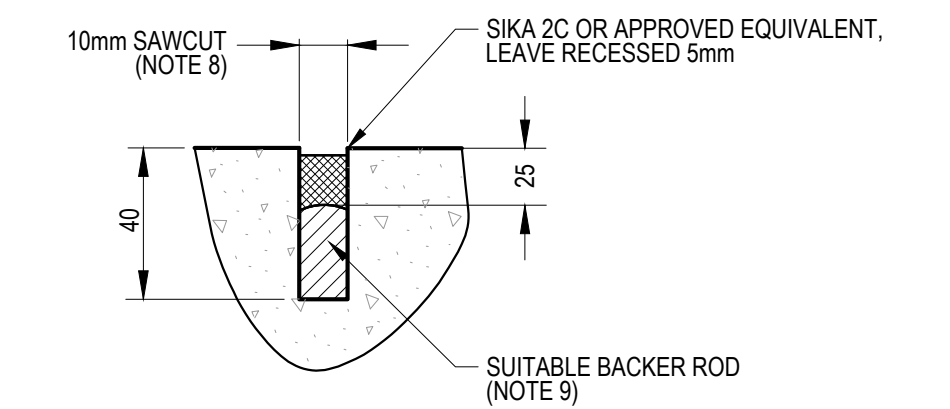
TYPICAL DOWEL BAR ASSEMBLY



TYPICAL JOINTING DETAIL AROUND MANHOLES OR WATER VALVES



LOAD TRANSFER JOINT DOWEL BASKET DETAIL



CAULKED JOINT DETAIL (PCC / PCC INTERFACE)

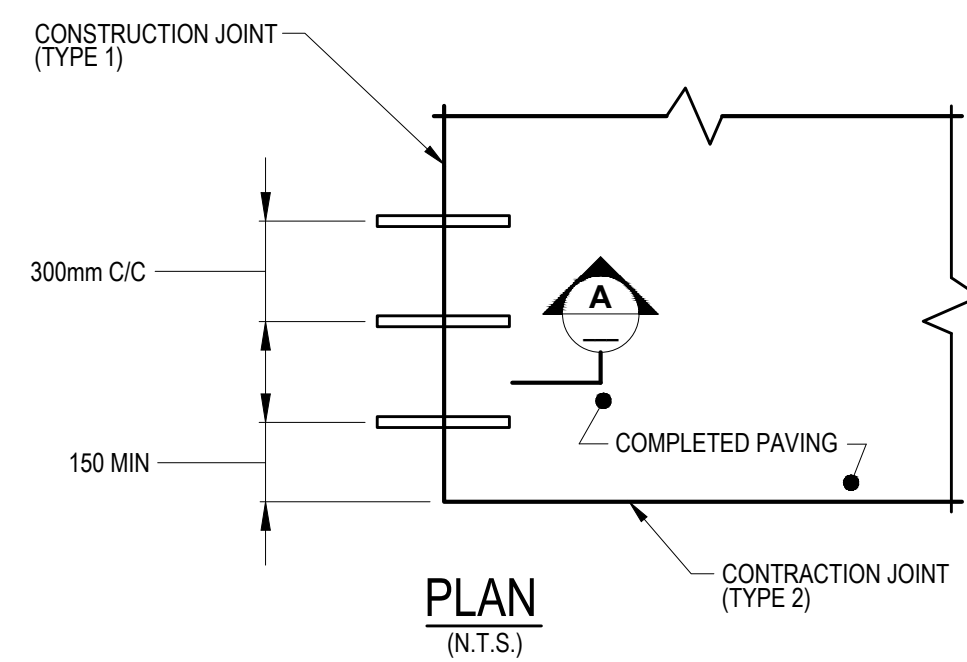
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LOAD TRANSFER JOINT DOWEL BASKET

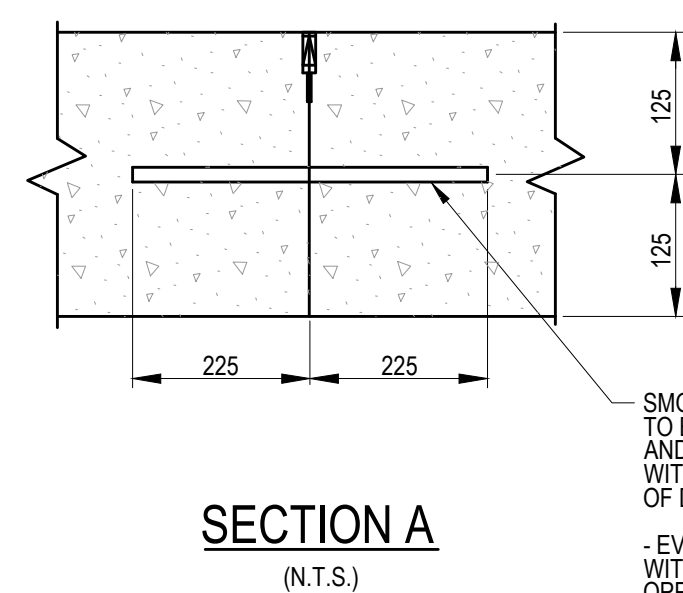
1. A MINIMUM OF 3 STAKES SHALL BE INSTALLED UNIFORMLY PER SIDE OF EACH LENGTH OF DOWEL BASKET ASSEMBLY.
2. SPACER WIRE SHALL BE CUT IN TWO PLACES AND THE MID SECTION REMOVED AFTER STAKING ASSEMBLY IS IN POSITION. SECTION REMOVED SHALL BE A MINIMUM LENGTH OF 300mm.
3. LOAD TRANSFER DEVICE SHALL BE SHOP COATED WITH RC-250 OR TECTYL 506, OR APPROVED BOND BREAKING EQUIVALENT.
4. DISTANCE FROM MID SECTION OF CLOSEST DOWEL AND NEAREST ADJACENT JOINT SHALL BE A MINIMUM OF 150mm.
5. ALL DIMENSIONS ARE IN MILLIMETERS UNLESS OTHERWISE NOTED.

JOINTS

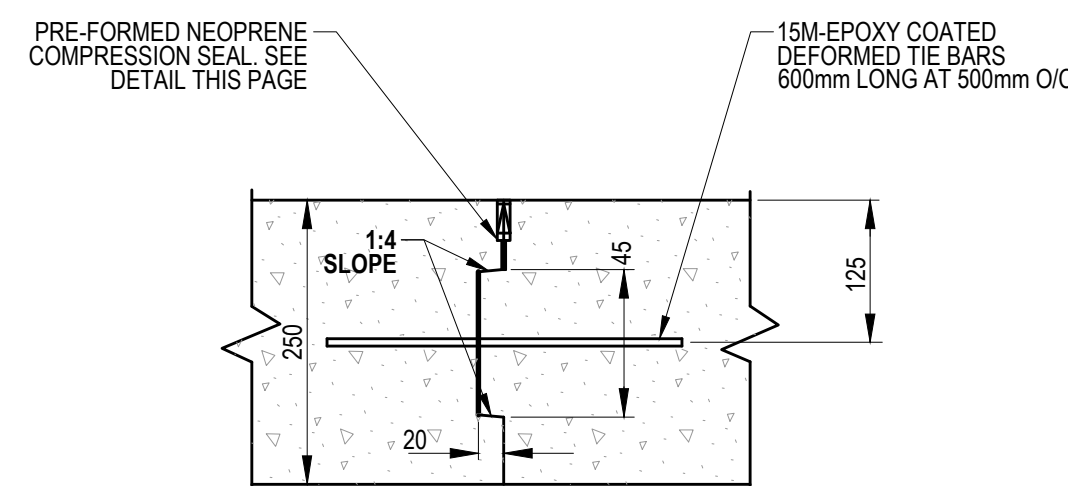
6. UNLESS SPECIFIED OTHERWISE, JOINTS SHALL BE INSTALLED AS SHOWN AND AS PER SECTION 3060, CONCRETE FOR ROADWAYS, OF VOLUME 2 OF THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS.
7. GROOVES FOR JOINTS SHALL BE SAWCUT OR OTHERWISE FORMED TO A MINIMUM DEPTH EQUAL TO ONE QUARTER THE SPECIFIED SLAB DEPTH.
8. JOINT WIDTHS SHALL BE CONSISTENT THROUGHOUT LENGTH OF THE JOINT.
9. BACKER ROD (WHERE REQUIRED) SHALL BE 25% LARGER IN DIAMETER THAN ACTUAL JOINT WIDTH.
10. PANELS SHALL BE KEPT SQUARE WHEREVER POSSIBLE. WHERE NOT ACHIEVABLE, THE LENGTH TO WIDTH RATIO SHALL NOT EXCEED 1.5.
11. THE PERPENDICULAR DISTANCE BETWEEN JOINTS SHALL NOT EXCEED 4m.
12. CONTROL JOINTS SHALL NOT MEET AT ANGLES SMALLER THAN 60°.
13. JOINT TYPE 1A SHALL BE USED FOR ALL CONSTRUCTION JOINTS LOCATED ALONG A PLANNED CONTRACTION JOINT.
14. CONSTRUCTION JOINTS PLACED IN LOCATIONS OTHER THAN ALONG A PLANNED CONTRACTION JOINT LOCATION SHALL BE TYPE 1B. JOINTS AND SHALL BE INSTALLED WITHIN THE MIDDLE THIRD OF THE DISTANCE BETWEEN ADJACENT REGULARLY SPACED CONTRACTION (TYPE 2) JOINTS.
15. CONTRACTION AND EXPANSION JOINTS SHALL BE MADE CONTINUOUS THROUGH ADJOINING CURBS.
16. COLOUR OF SIKA 2C SEALANT SHALL BE GRAY.
17. SHOP DRAWINGS SHALL BE REVIEWED AND ACCEPTED BY THE CITY PRIOR TO WORK COMMENCING.



JOINT TYPE 1A (Doweled - Construction)

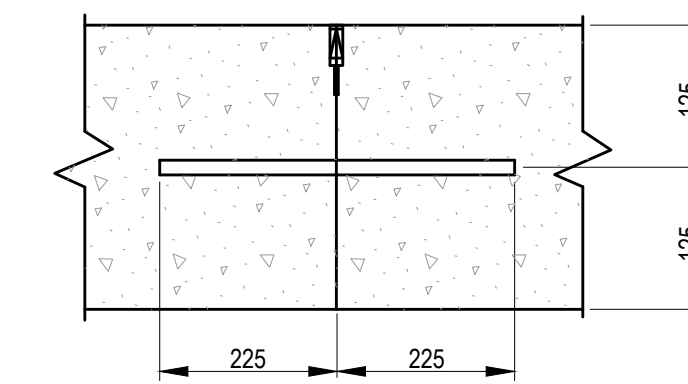


SMOOTH 30M-EPOXY COATED DOWEL AT 300mm c/c TO BE SET PARALLEL TO SLAB SURFACE AND SET PERPENDICULAR TO SLAB WITH A TOLERANCE OF 15mm PER 450mm OF DOWEL LENGTH
 - EVERY SECOND DOWEL TO BE EPOXIED WITH HY150 (IN SPEED DOWEL SLEEVE) AND OPPOSITE END GREASED
 - FOR NON-EPOXIED DOWELS, DOWEL SLEEVES (SPEED DOWEL) TO BE FILLED WITH GREASE

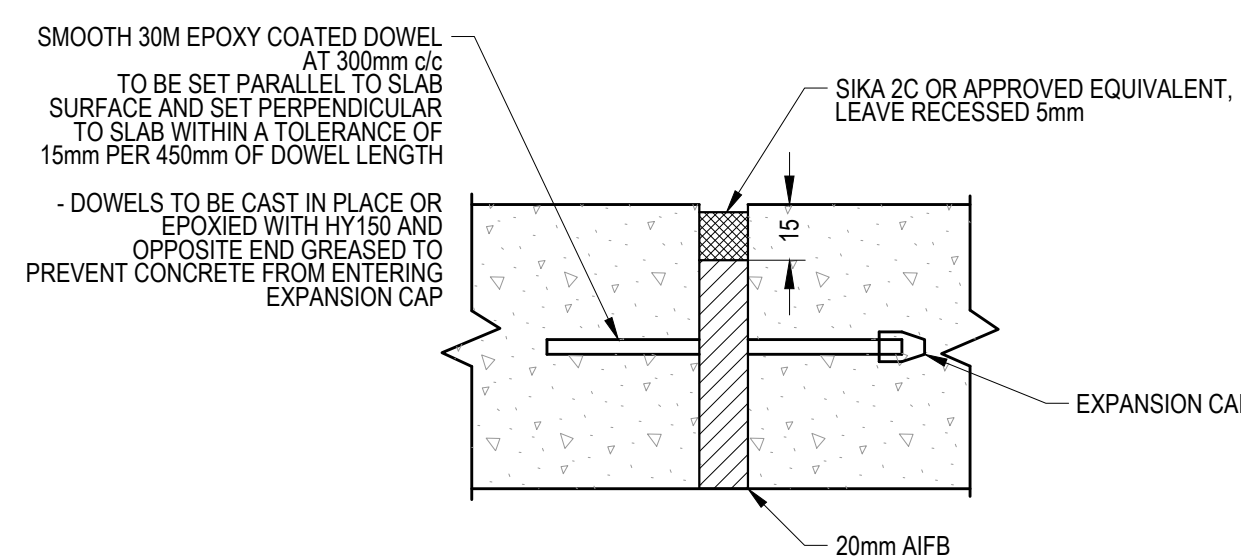


JOINT TYPE 1B (Keyed - Construction)

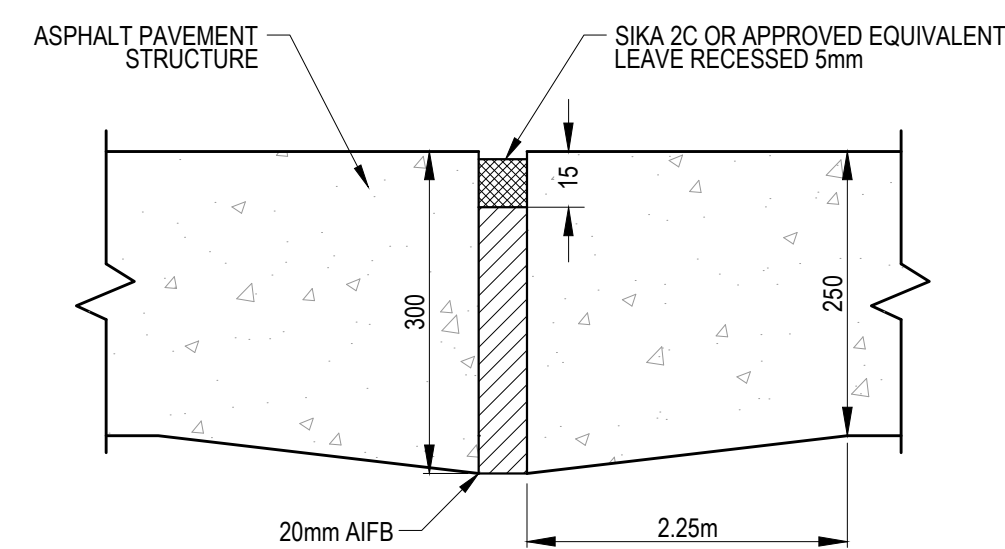
SMOOTH 30M-EPOXY COATED DOWEL AT 300mm c/c (SEE LOAD TRANSFER JOINT DOWEL BASKET DETAIL)



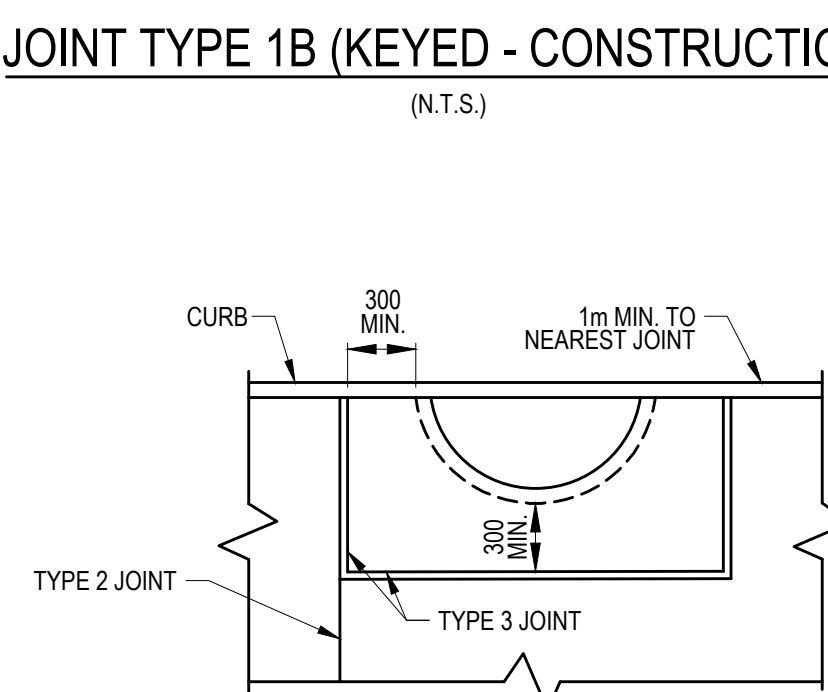
JOINT TYPE 2 (Doweled - Contraction)



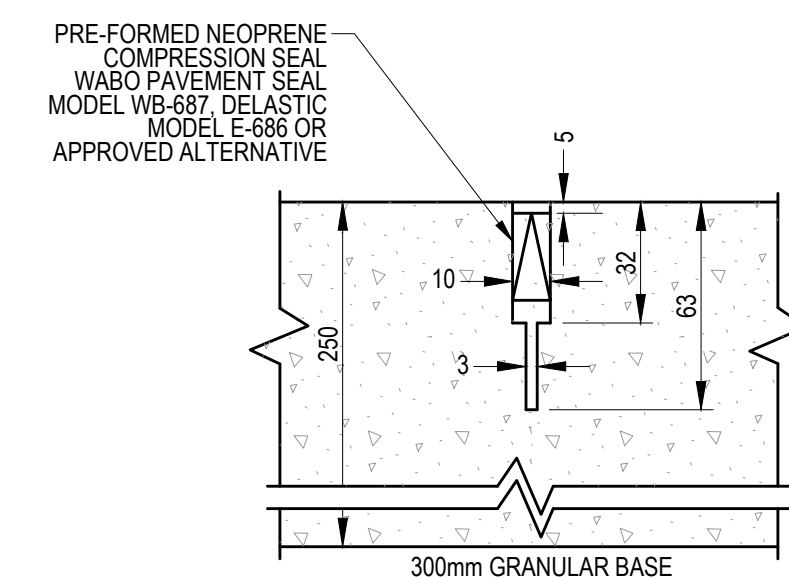
JOINT TYPE 3 (Doweled - Isolation)



JOINT TYPE 4 (Undoweled - Isolation)



TYPICAL JOINTING DETAIL AROUND CATCH BASINS



SAW CUT DETAILS FOR INSTALLATION OF PREFORMED NEOPRENE COMPRESSION SEALS

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Consultant	
drawn by	designed by
R. MULLER	K. LAU
checked by	date
D. MARTIN	03-05-2019

<p>PERMIT TO PRACTICE</p> <p>ISL Engineering and Land Services Ltd.</p> <p>Signature</p> <p>Date 2019-05-06</p> <p>PERMIT NUMBER: P 4741</p> <p>The Association of Professional Engineers and Geoscientists of Alberta</p>	
consultant job no	14677

2019-05-06	
consultant reviewed by	B. CAMPBELL

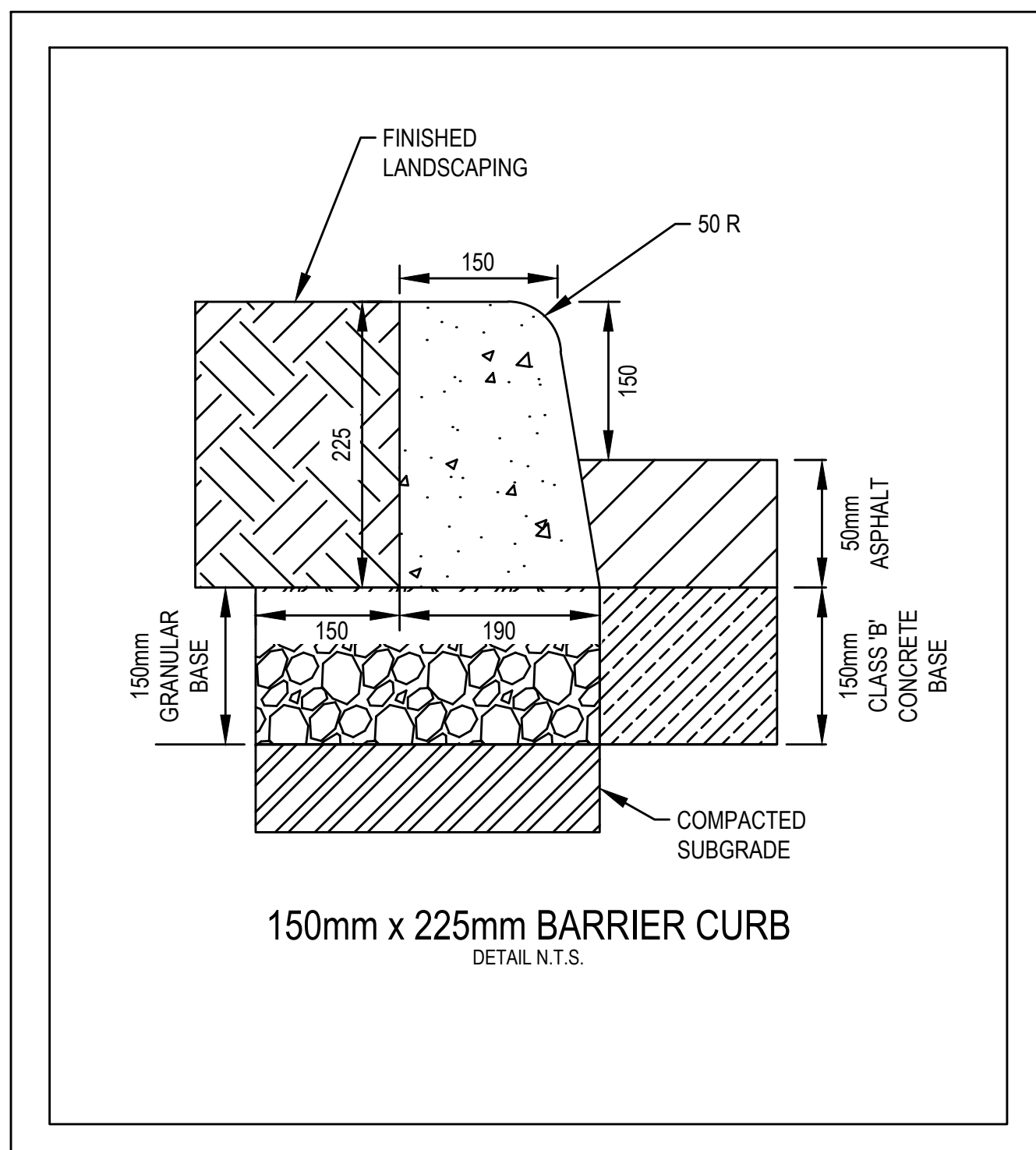
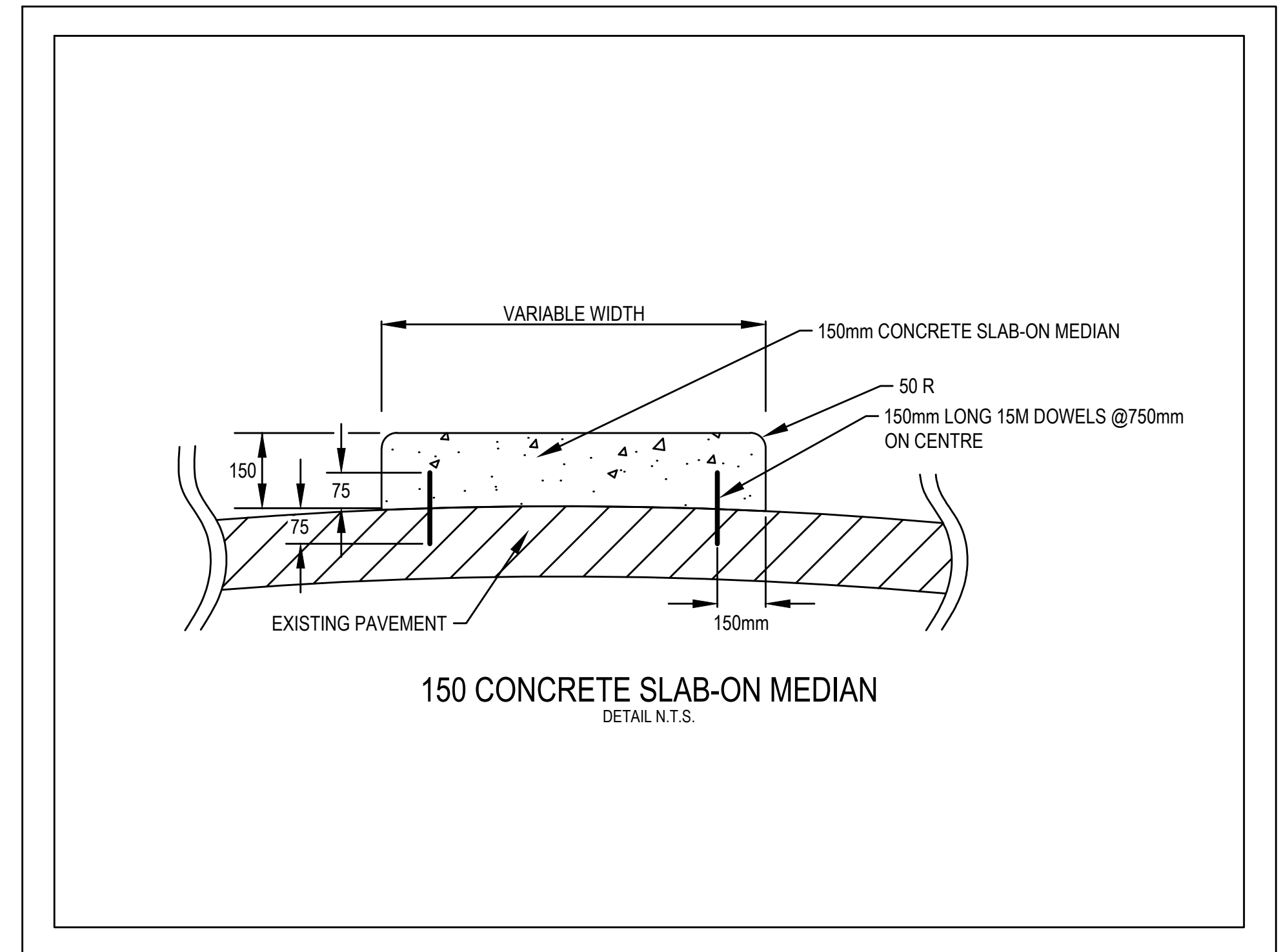
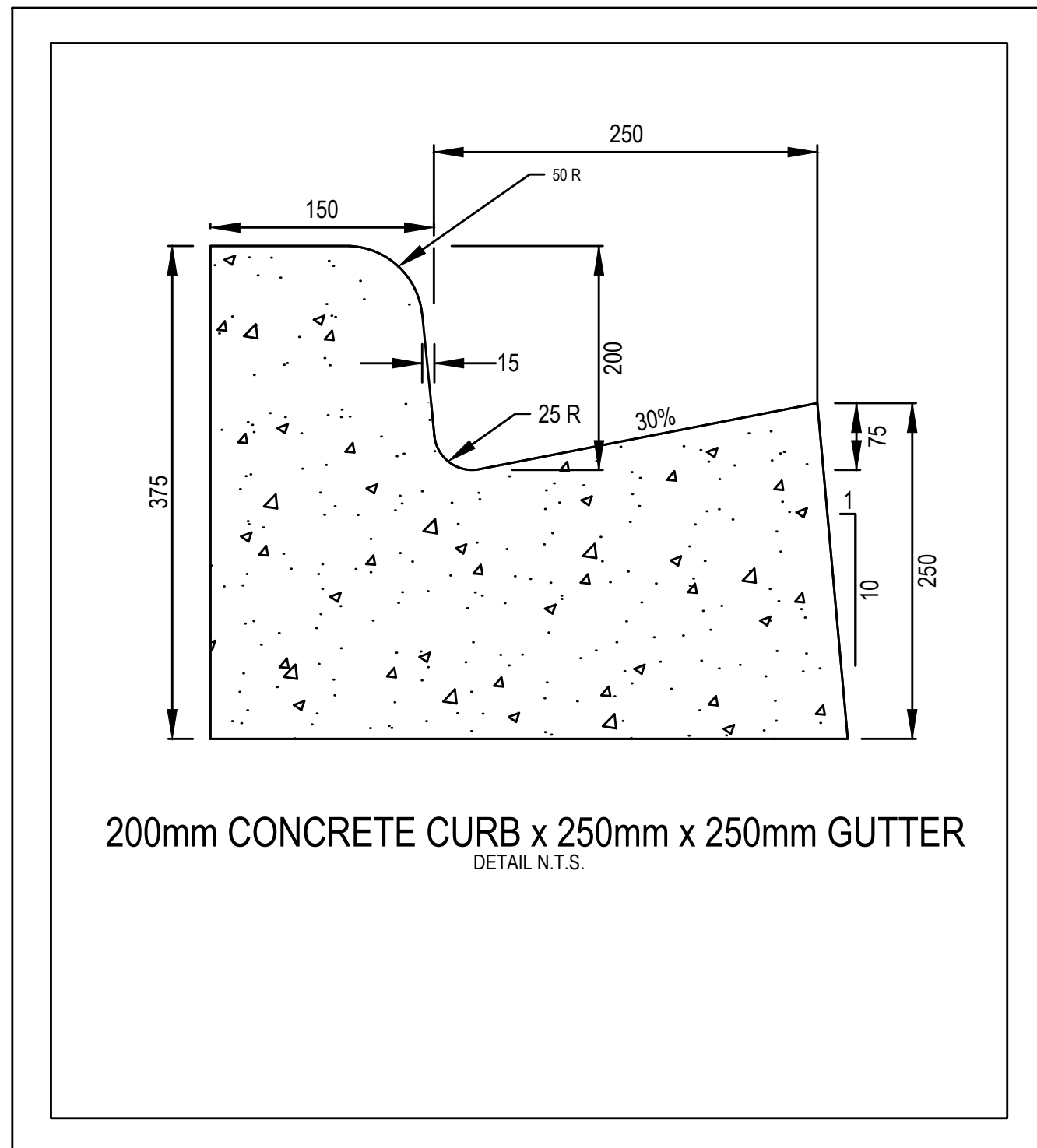
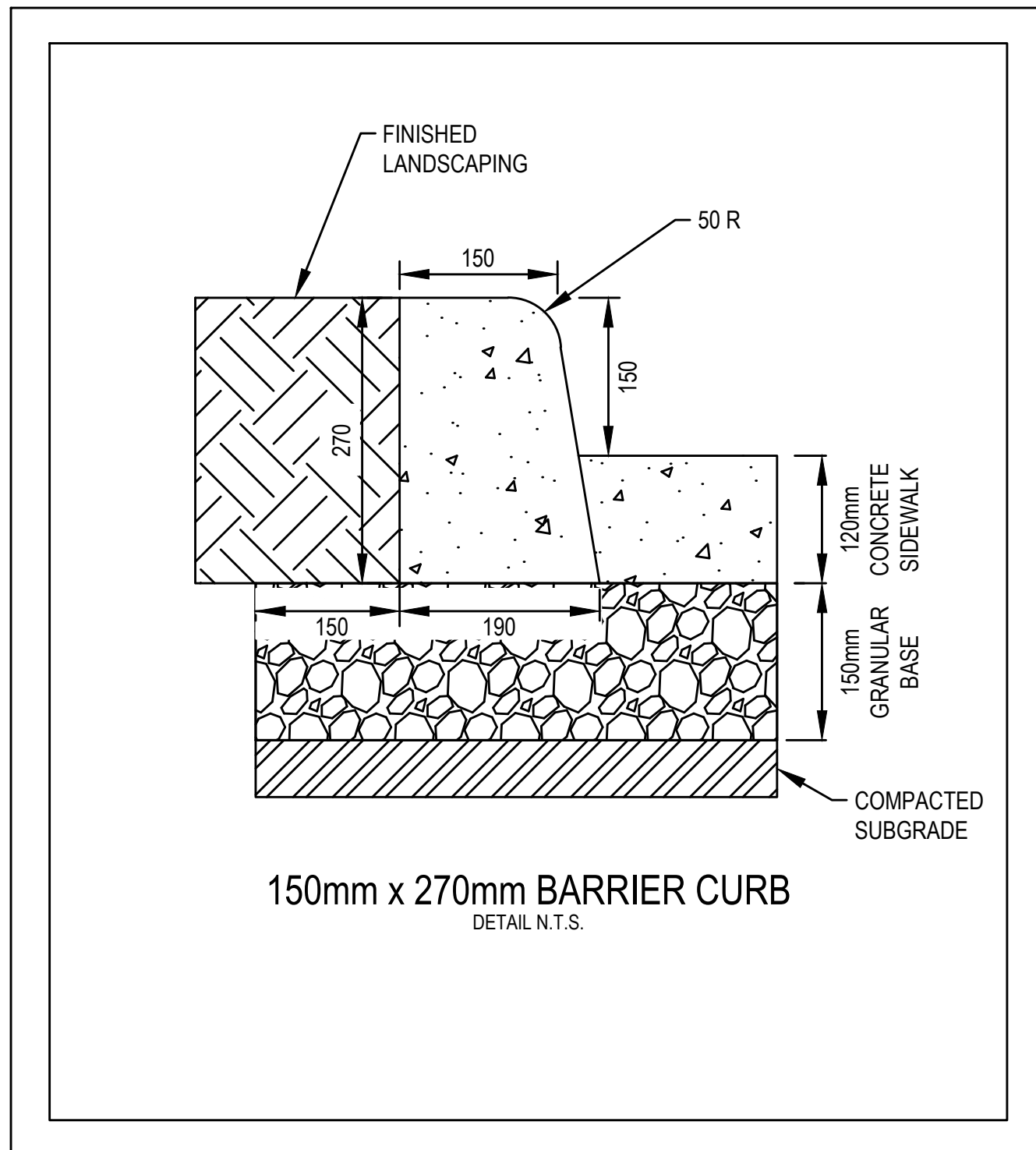
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drawing title		
MILL WOODS TRANSIT CENTRE		
STANDARD DETAILS		

MILL WOODS TO DOWNTOWN	
drawing no.	REV
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A1 bar scale

drawn by R. MULLER designed by K. LAU

checked by D. MARTIN date 03-05-2019

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consultant job no 14677

Professional Engineering
2019-05-06

consultant reviewed by B. CAMPBELL

AECOM Prime Consultant

Edmonton

prime consultant job no

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ISL Engineering and Land Services **DIALOG** **gpc architecture**

drawing title
MILL WOODS TRANSIT CENTRE
STANDARD DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 D23** REV 0 SHT

GENERAL NOTES

MATERIALS

- CAST-IN-PLACE CONCRETE SHALL COMPLY WITH SECTION 03300
- CONCRETE SHALL BE EXPOSURE CLASS C-1 WITH A MINIMUM 28 DAY COMPRESSIVE STRENGTH OF 35 MPa
- CEMENT SHALL BE TYPE HS
- ALL REINFORCEMENT SHALL BE STAINLESS STEEL
- STAINLESS STEEL REINFORCEMENT SHALL CONFORM TO ASTM A276 / A276M AND ASTM A955 / A955M INCLUDING ANNEX 1.2OR 1.3 WITH A MINIMUM YIELD STRENGTH OF 420MPA

GEOTECHNICAL

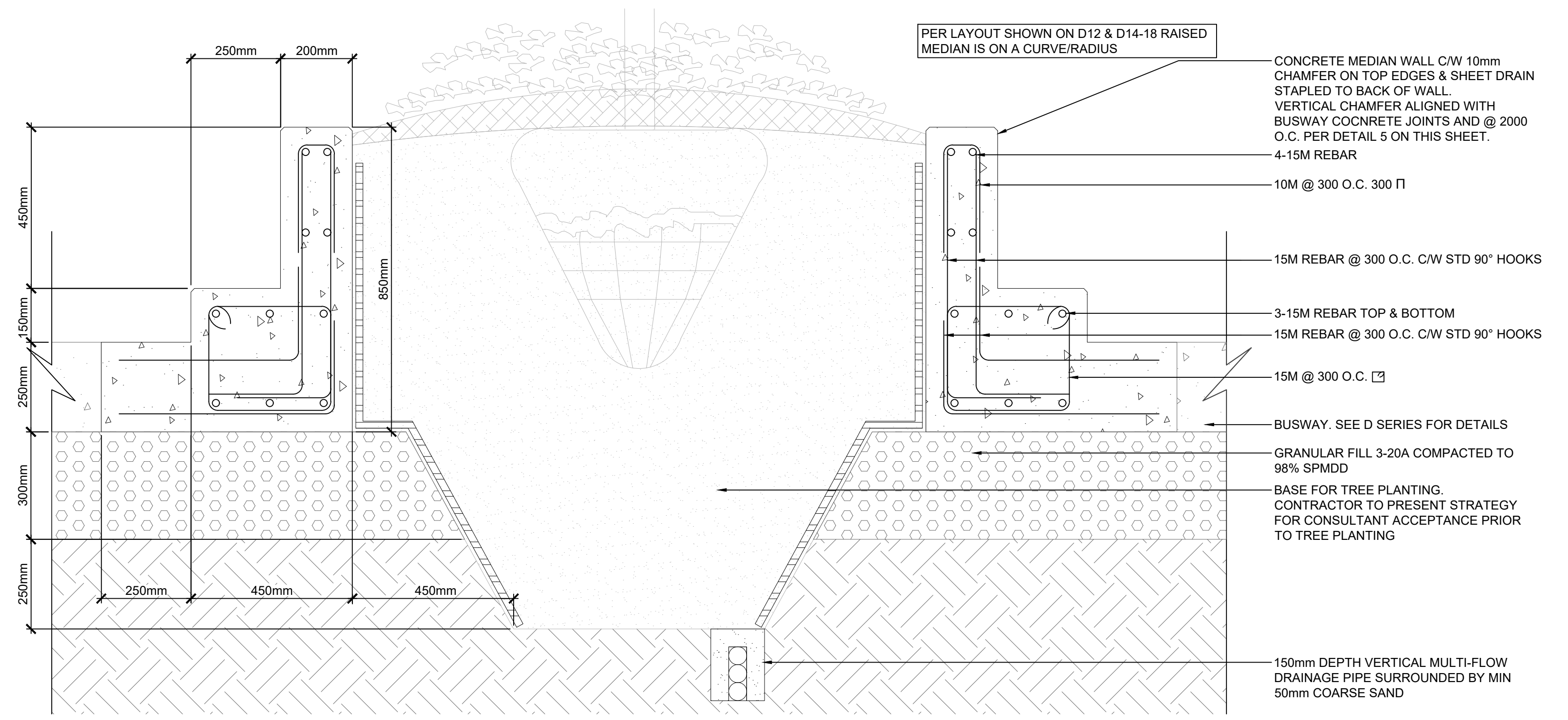
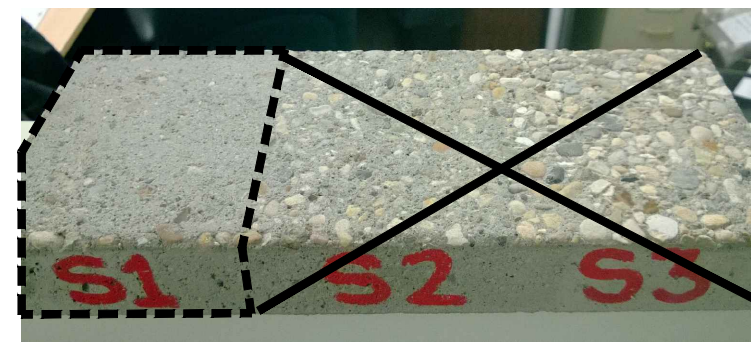
- ADDITIONAL GEOTECHNICAL INFORMATION MAY BE FOUND IN CONTRACT
- ALL GEOTECHNICAL INFORMATION PROVIDED FOR THIS PROJECT HAS BEEN COMPLIED FOR DESIGN PURPOSES ONLY. WHILE IT IS BELIEVED TO CORRECTLY REPRODUCE OR SUMMARIZE OBSERVATIONS MADE DURING TESTING. IT IS VALID ONLY FOR THE PRECISE LOCATIONS SHOWN, AND IS NOT TO BE CONSTRUED AS GUARANTEEING THE ACTUAL MATERIALS AND CONDITIONS EXISTING THROUGHOUT THE SITE. THE TESTING METHODS USED MAY NOT HAVE DETERMINED THE PRESENCE, ABSENCE OR EXTENTS OF BOULDERS, HARD OR SOFT FORMATIONS, WATER TABLES, ARTESIAN CONDITIONS AND OTHER VARIABLES. IT IS THE RESPONSIBILITY OF OTHERS USING THIS INFORMATION TO ENSURE THAT IT IS ADEQUATE FOR THEIR PURPOSES, OR TO SUPPLEMENT IT WITH ADDITIONAL INFORMATION.

GEOMETRY

- ALL DIMENSIONS IN MILLIMETERS UNLESS STATED OTHERWISE.
- ALL REINFORCING STEEL SHALL HAVE 50mm CLEAR COVER

INSTALLATION

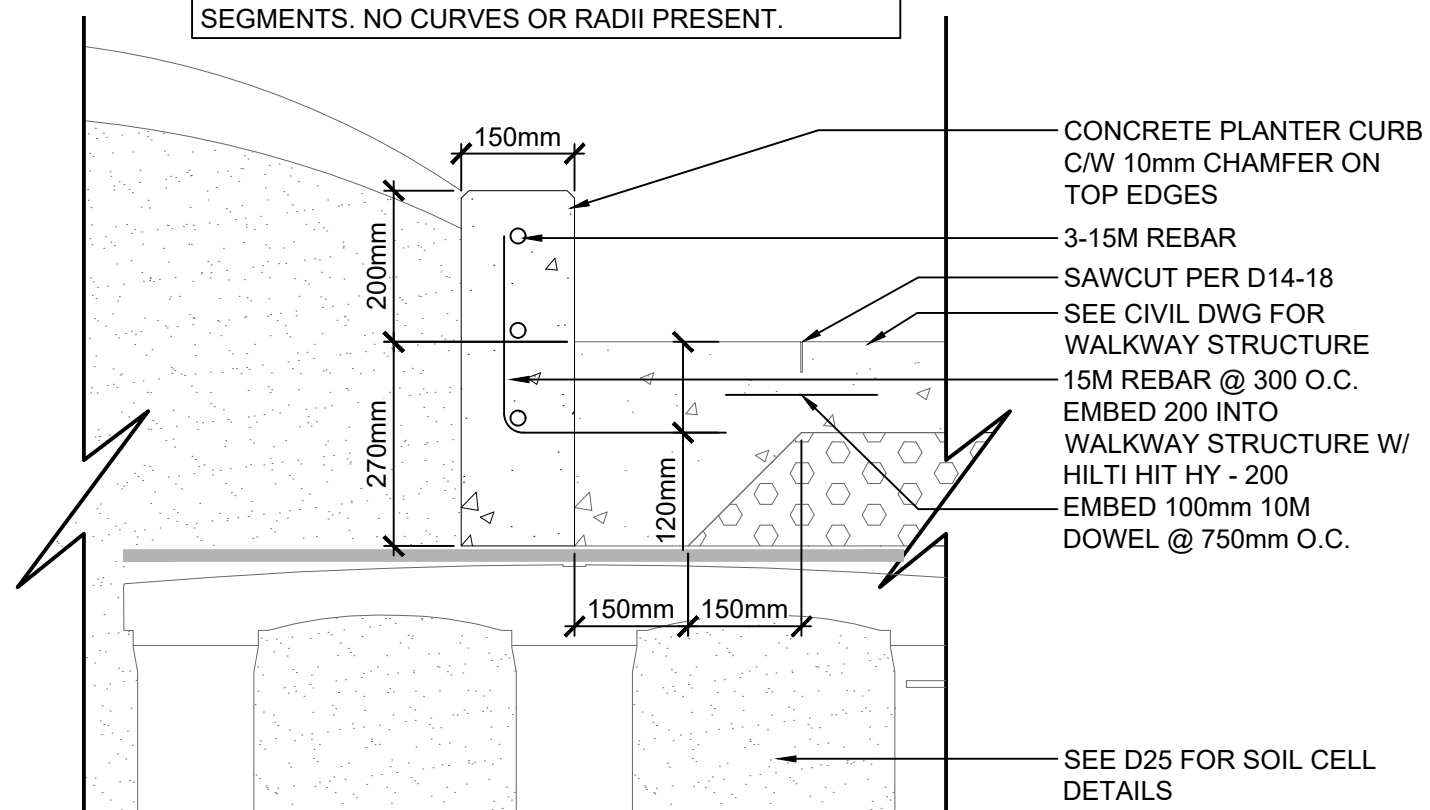
- BACKFILL UNDER PLANTER CURB, RAISED MEDIAN, AND SEAT WALL SHALL BE PLACED IN MAXIMUM LIFT THICKNESS OF 150mm AND THE BACKFILL MATERIAL SHALL BE UNIFORMLY COMPACTED TO 98% OF SPMDD
- CONCRETE FINISH:
 - FINISHED CONCRETE PLANTER CURB, SEAT WALL & RAISED MEDIAN TO RECEIVE LIGHT SANDBLAST FINISH (SEE S1 BELOW) WITH MINIMAL BUG HOLES AND PATCHES.
 - A PENETRATING SILANE SEALER SHALL BE APPLIED TO ALL CONCRETE SURFACES OF THE SEAT WALLS, PLANTER CURBS, & RAISED MEDIANS AFTER THE CONCRETE HAS CURED FOR AT LEAST 28 DAYS. APPLY THE SEALER ACCORDING TO THE MANUFACTURERS RECOMMENDATIONS.
- SUBMIT SHOP DRAWINGS FOR REVIEW FOR ALL REBAR.
- SUBMIT CONCRETE MIX DESIGN FOR REVIEW.
- MOCKUP SHALL BE PROVIDED FOR PLANTER CURB, SEAT WALL, & RAISED MEDIAN
- CONCRETE SUPPLY AND CONSTRUCTION SHALL CONFORM TO CAN/CSA A23.1 AND CONTRACT SPECIFICATIONS.



1 RAISED MEDIAN SECTION
D12

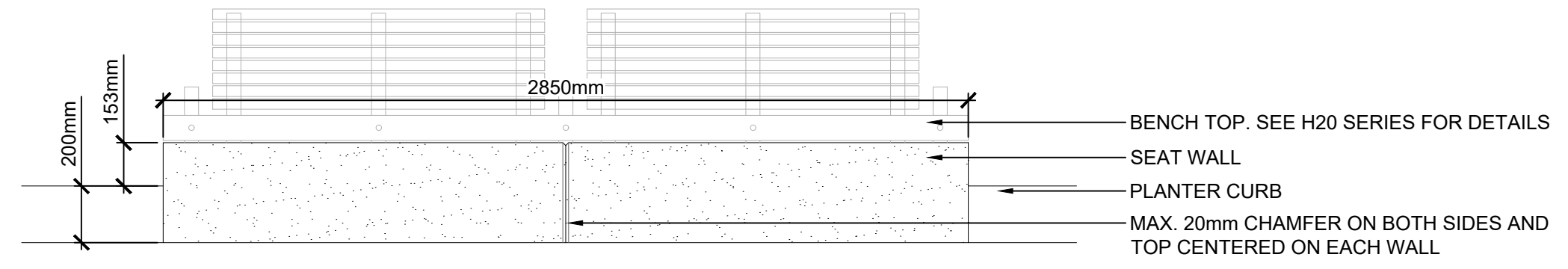
SCALE 1:20

PER LAYOUT SHOWN ON D12 & D14-18 ALL PLANTER CURBS AND SEAT WALLS ARE MADE OF STRAIGHT SEGMENTS. NO CURVES OR RADII PRESENT.



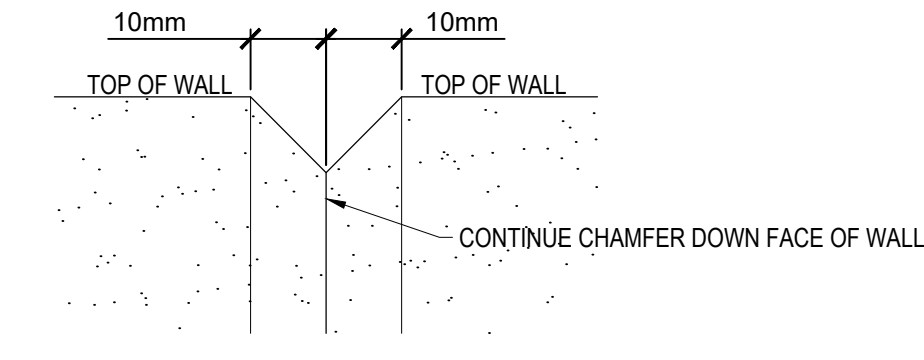
2 PLANTER CURB OVER SOIL CELLS SECTION
D12

SCALE 1:10



4 SEAT WALL ELEVATION
D12

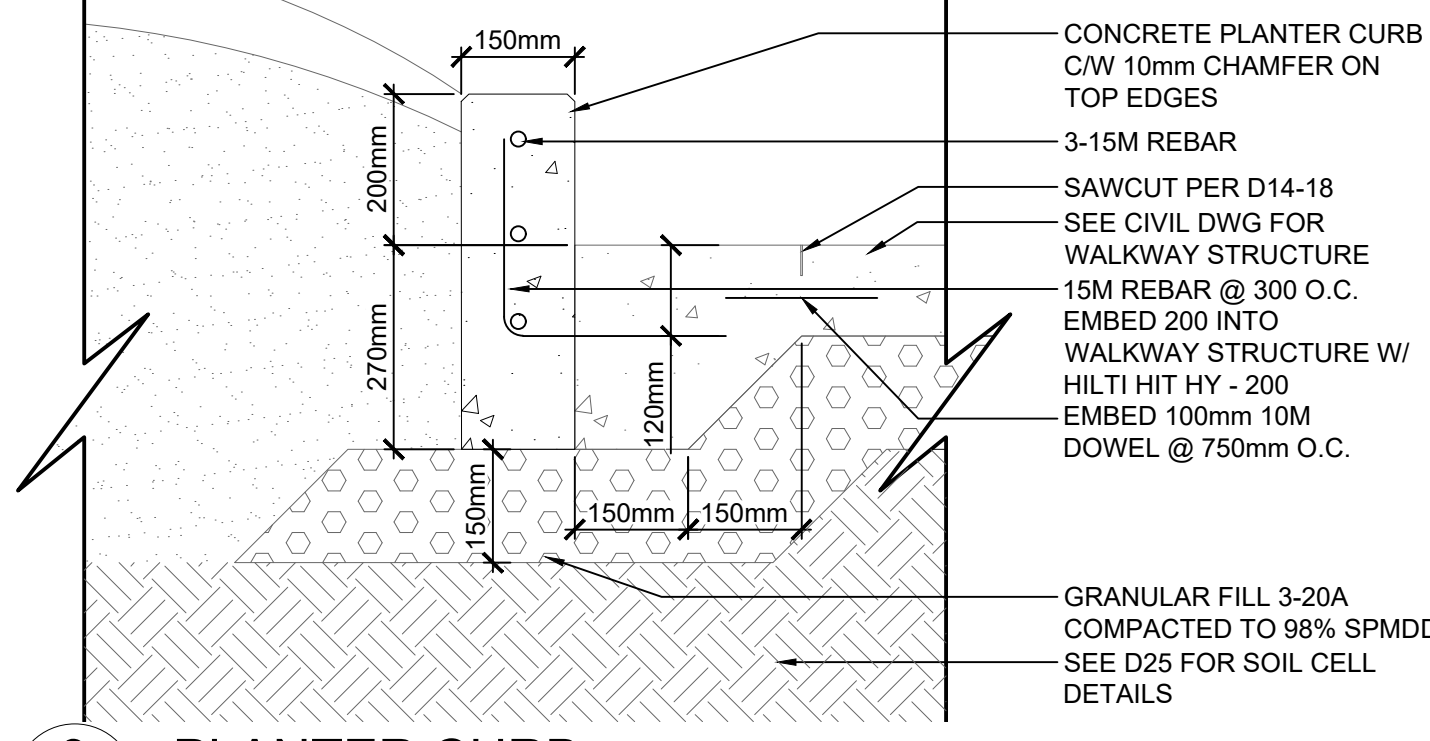
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5 CHAMFER DETAIL ELEVATION
D24

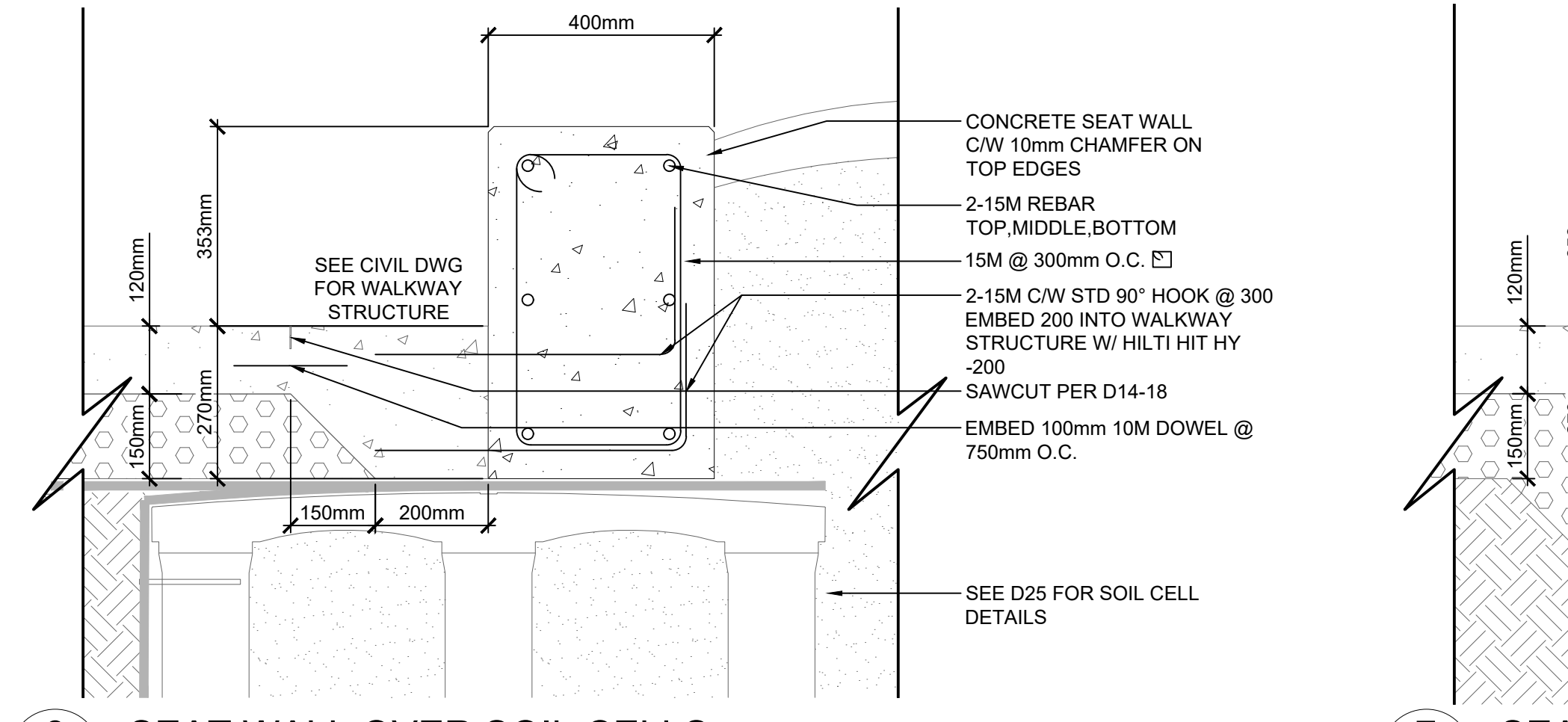
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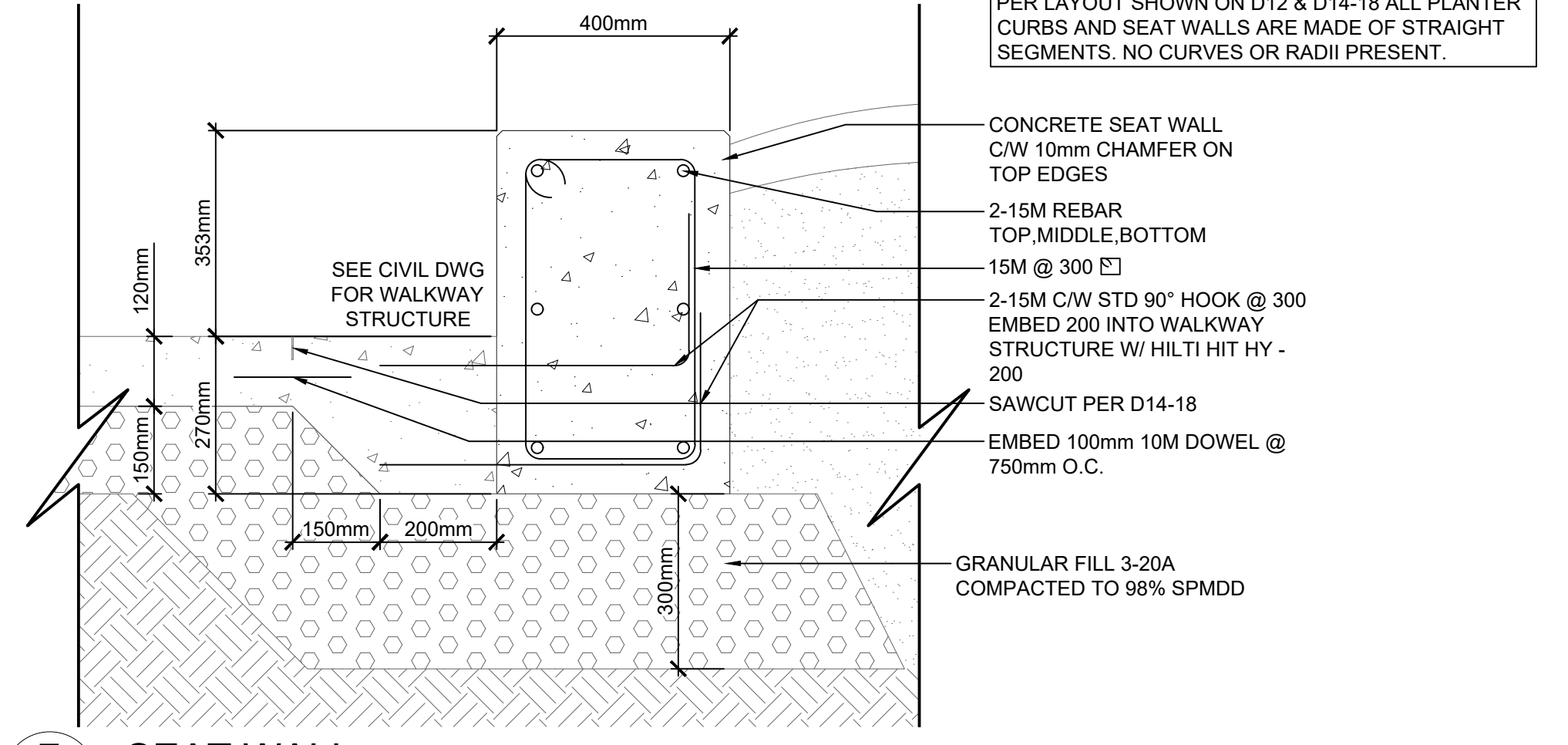
3 PLANTER CURB SECTION
D12

SCALE 1:10



6 SEAT WALL OVER SOIL CELLS SECTION
D12

SCALE 1:10



7 SEAT WALL SECTION
D12

SCALE 1:10

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	issue data		
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	revisions		

ISL Engineering and Land Services Consultant

A1 bar scale

drawn by **D. FRANKLIN** designed by **J. SCHUREK**

checked by **D. MARTIN** date **03-05-2019**

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.

Signature: *[Signature]*
Date: 2019-05-06

PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER ALBERTA
SCOTT MURRAY A. BERT

Signature: *[Signature]*
Date: May 6 2019

AECOM Prime Consultant

Edmonton

HATCH

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ISL Engineering and Land Services

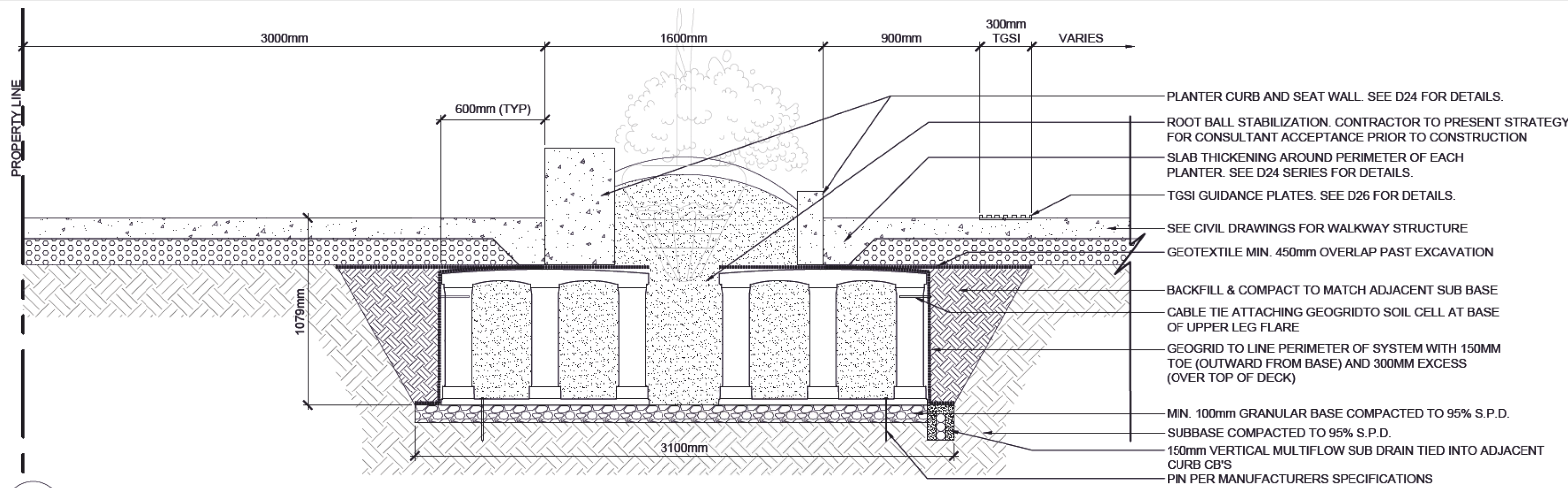
DIALOG **gpc architecture**

drawing title
MILL WOODS TRANSIT CENTRE
STANDARD DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 D24** REV 0
SHT

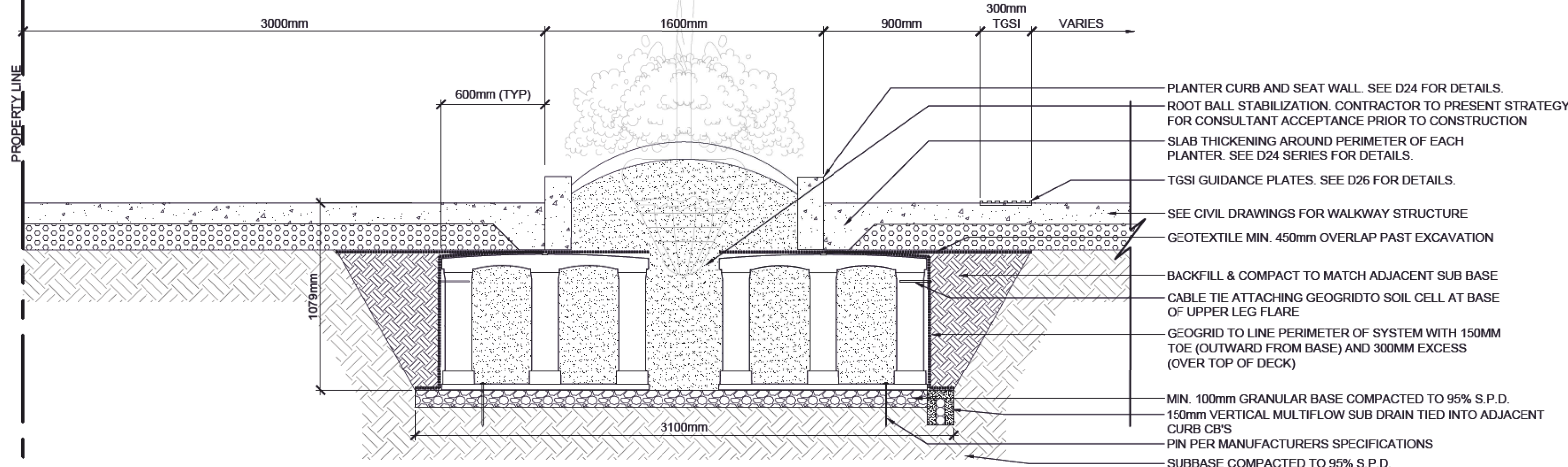
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1 PLANTER SOIL CELLS
SECTION

SCALE 1:20

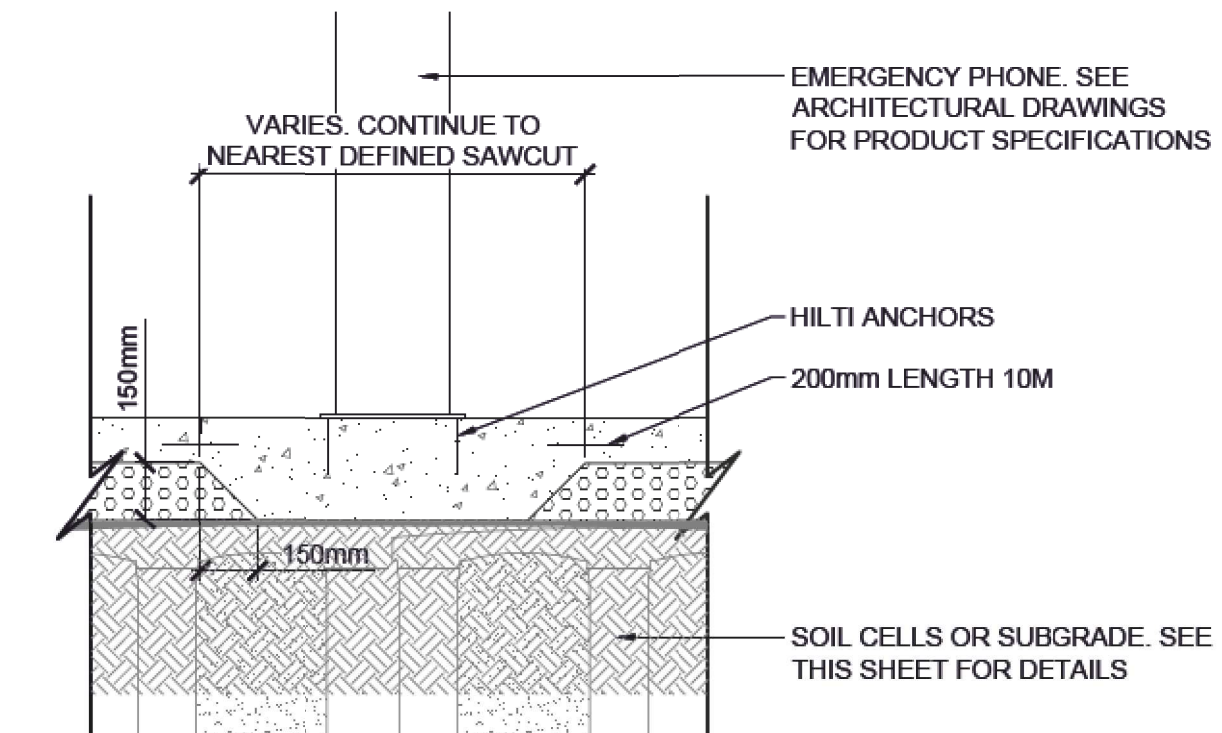
- PLANTER CURB AND SEAT WALL. SEE D24 FOR DETAILS.
- ROOT BALL STABILIZATION. CONTRACTOR TO PRESENT STRATEGY FOR CONSULTANT ACCEPTANCE PRIOR TO CONSTRUCTION
- SLAB THICKENING AROUND PERIMETER OF EACH PLANTER. SEE D24 SERIES FOR DETAILS.
- TGSI GUIDANCE PLATES. SEE D26 FOR DETAILS.
- SEE CIVIL DRAWINGS FOR WALKWAY STRUCTURE
- GEOTEXTILE MIN. 450mm OVERLAP PAST EXCAVATION
- BACKFILL & COMPACT TO MATCH ADJACENT SUB BASE
- CABLE TIE ATTACHING GEOGRID TO SOIL CELL AT BASE OF UPPER LEG FLARE
- GEOGRID TO LINE PERIMETER OF SYSTEM WITH 150MM TOE (OUTWARD FROM BASE) AND 300MM EXCESS (OVER TOP OF DECK)
- MIN. 100mm GRANULAR BASE COMPACTED TO 95% S.P.D.
- SUBBASE COMPACTED TO 95% S.P.D.
- 150mm VERTICAL MULTIFLOW SUB DRAIN TIED INTO ADJACENT CURB CB'S
- PIN PER MANUFACTURERS SPECIFICATIONS



2 PLANTER SOIL CELLS
SECTION

SCALE 1:20

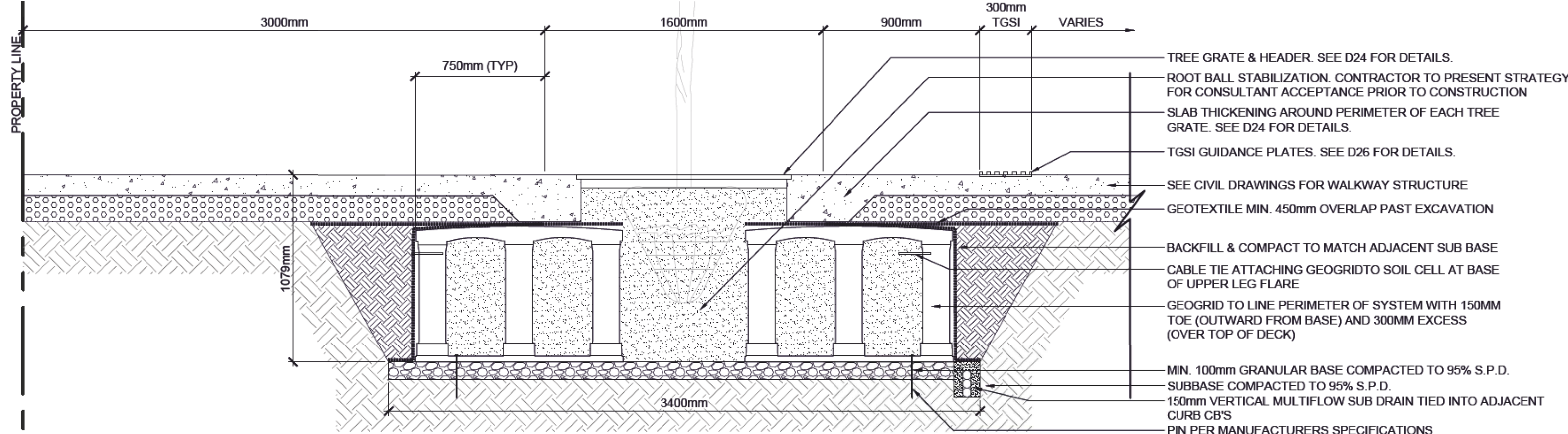
- PLANTER CURB AND SEAT WALL. SEE D24 FOR DETAILS.
- ROOT BALL STABILIZATION. CONTRACTOR TO PRESENT STRATEGY FOR CONSULTANT ACCEPTANCE PRIOR TO CONSTRUCTION
- SLAB THICKENING AROUND PERIMETER OF EACH PLANTER. SEE D24 SERIES FOR DETAILS.
- TGSI GUIDANCE PLATES. SEE D26 FOR DETAILS.
- SEE CIVIL DRAWINGS FOR WALKWAY STRUCTURE
- GEOTEXTILE MIN. 450mm OVERLAP PAST EXCAVATION
- BACKFILL & COMPACT TO MATCH ADJACENT SUB BASE
- CABLE TIE ATTACHING GEOGRID TO SOIL CELL AT BASE OF UPPER LEG FLARE
- GEOGRID TO LINE PERIMETER OF SYSTEM WITH 150MM TOE (OUTWARD FROM BASE) AND 300MM EXCESS (OVER TOP OF DECK)
- MIN. 100mm GRANULAR BASE COMPACTED TO 95% S.P.D.
- 150mm VERTICAL MULTIFLOW SUB DRAIN TIED INTO ADJACENT CURB CB'S
- PIN PER MANUFACTURERS SPECIFICATIONS
- SUBBASE COMPACTED TO 95% S.P.D.



4 SLAB THICKENING AT EMERGENCY PHONES
SECTION

SCALE 1:20

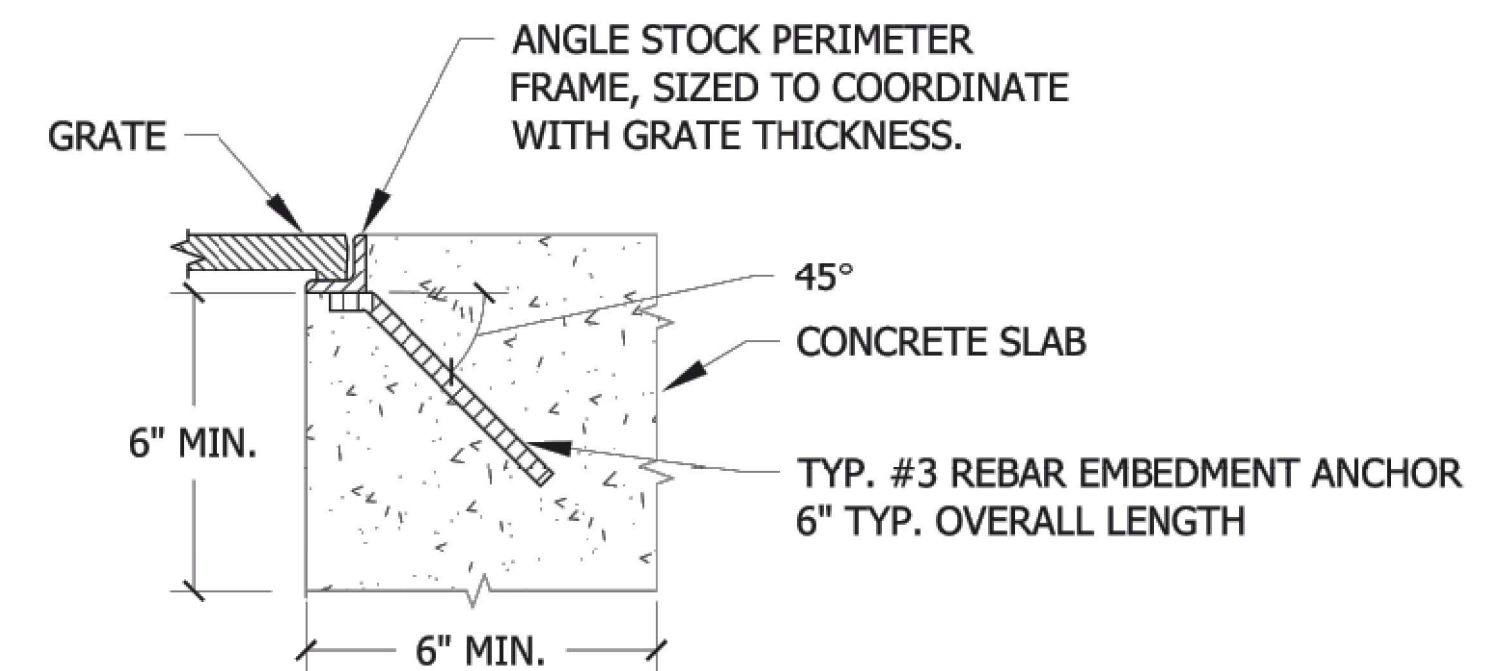
EMERGENCY PHONE. SEE ARCHITECTURAL DRAWINGS FOR PRODUCT SPECIFICATIONS



3 TREE GRATE SOIL CELLS
SECTION

SCALE 1:20

- TREE GRATE & HEADER. SEE D24 FOR DETAILS.
- ROOT BALL STABILIZATION. CONTRACTOR TO PRESENT STRATEGY FOR CONSULTANT ACCEPTANCE PRIOR TO CONSTRUCTION
- SLAB THICKENING AROUND PERIMETER OF EACH TREE GRATE. SEE D24 FOR DETAILS.
- TGSI GUIDANCE PLATES. SEE D26 FOR DETAILS.
- SEE CIVIL DRAWINGS FOR WALKWAY STRUCTURE
- GEOTEXTILE MIN. 450mm OVERLAP PAST EXCAVATION
- BACKFILL & COMPACT TO MATCH ADJACENT SUB BASE
- CABLE TIE ATTACHING GEOGRID TO SOIL CELL AT BASE OF UPPER LEG FLARE
- GEOGRID TO LINE PERIMETER OF SYSTEM WITH 150MM TOE (OUTWARD FROM BASE) AND 300MM EXCESS (OVER TOP OF DECK)
- MIN. 100mm GRANULAR BASE COMPACTED TO 95% S.P.D.
- SUBBASE COMPACTED TO 95% S.P.D.
- 150mm VERTICAL MULTIFLOW SUB DRAIN TIED INTO ADJACENT CURB CB'S
- PIN PER MANUFACTURERS SPECIFICATIONS



5 TREE GRATE FRAME (MANUFACTURER DETAIL)
SECTION

NTS

A no.	ISSUED FOR TENDER	03-05-19	D.M.
	description	date	appd
	issue date		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale

drawn by D. FRANKLIN
designed by J. SCHUREK

checked by D. MARTIN
date 03-05-2019

consultant job no 14677

The Alberta Association of Landscape Architects
Jeff Schurek
2019-05-08

consultant reviewed by B. CAMPBELL

AECOM
Prime Consultant

Edmonton

prime consultant job no

HATCH

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prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

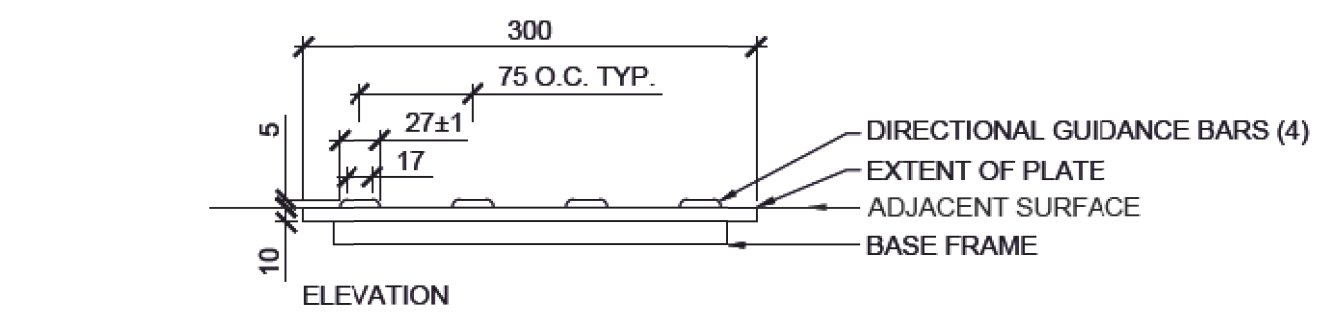
gac architecture

drawing title
MILL WOODS TRANSIT CENTRE
STANDARD DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

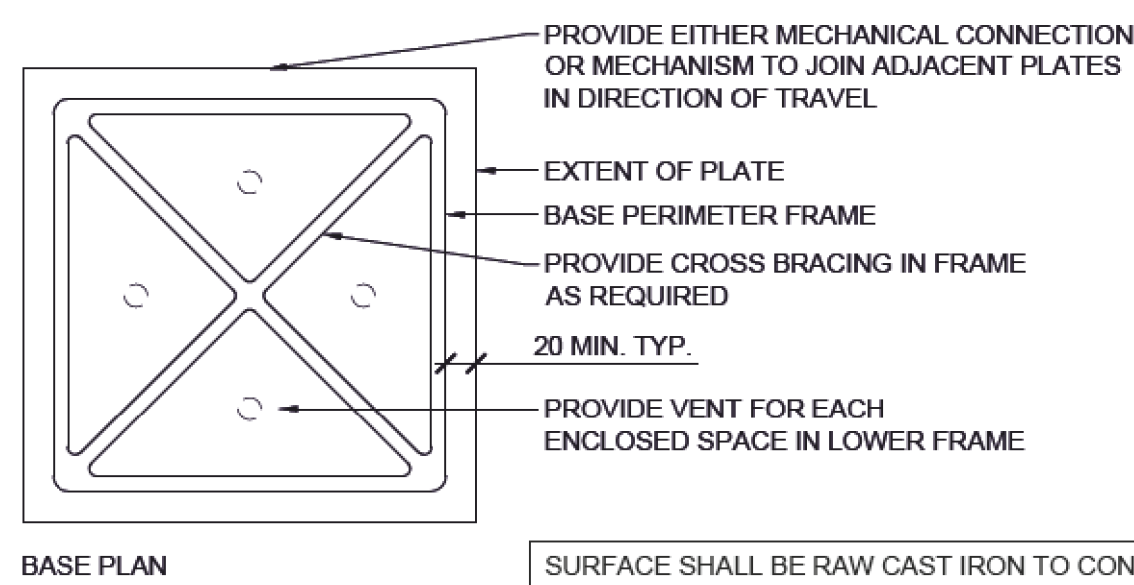
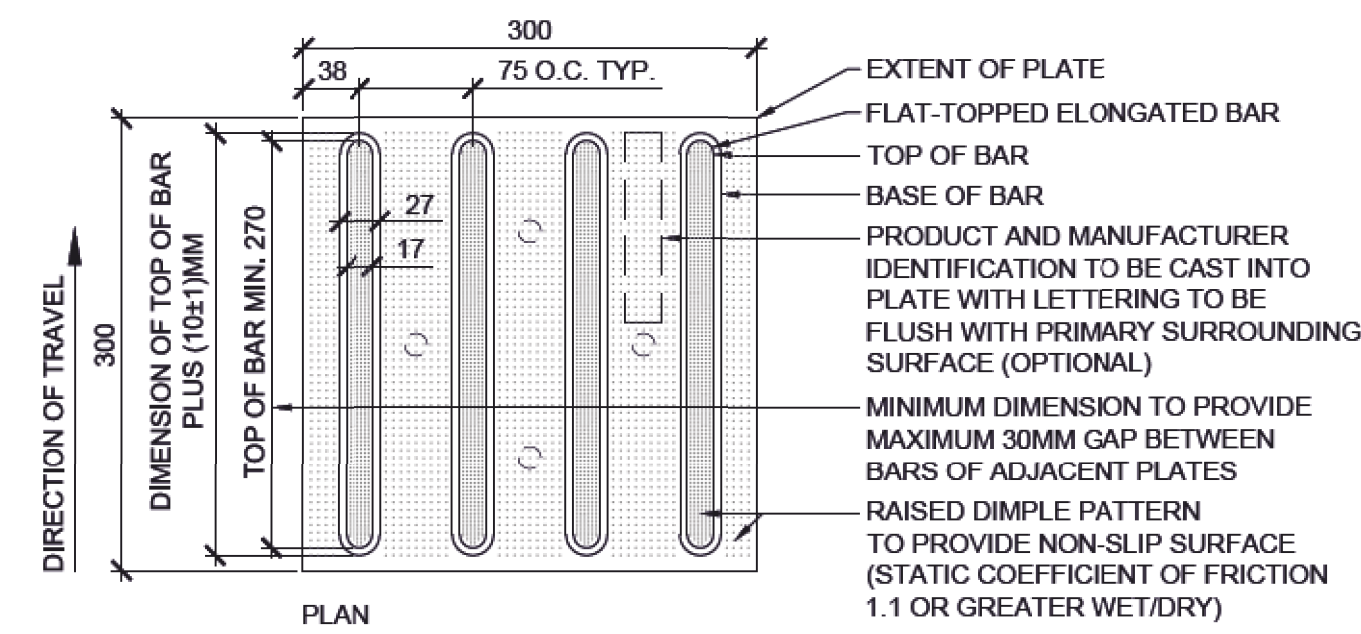
drawing no. MWTC 191 D25
REV 0
SHT

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Cast iron Tactile Walking Surface Indicator products shall be Class 35B Grey Cast Iron (ASTM A 48) and conform to the following ASTM specifications:

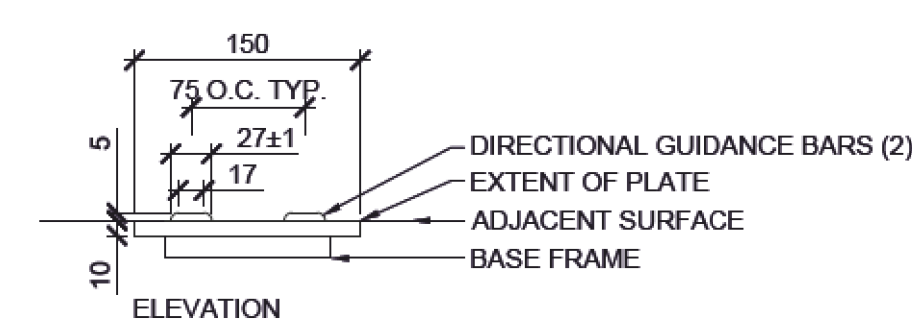
ASTM C 1028	Static Coefficient of Friction	>= 1.1 wet/dry
ASTM A 327	Impact Resistance	No damage at 54J
ASTM A 48	Compressive Strength	785MPa
ASTM C 501	Abrasive Wear Index	>55
ASTM E8/E8M-13a	Tensile Strength	>241MPa



SURFACE SHALL BE RAW CAST IRON TO CONTRAST WITH SURROUNDING CONCRETE SURFACES.
RAW CAST IRON SHOULD HAVE PREPATINA SURFACE PRIOR TO PLACEMENT TO MINIMIZE RUST STAINING.

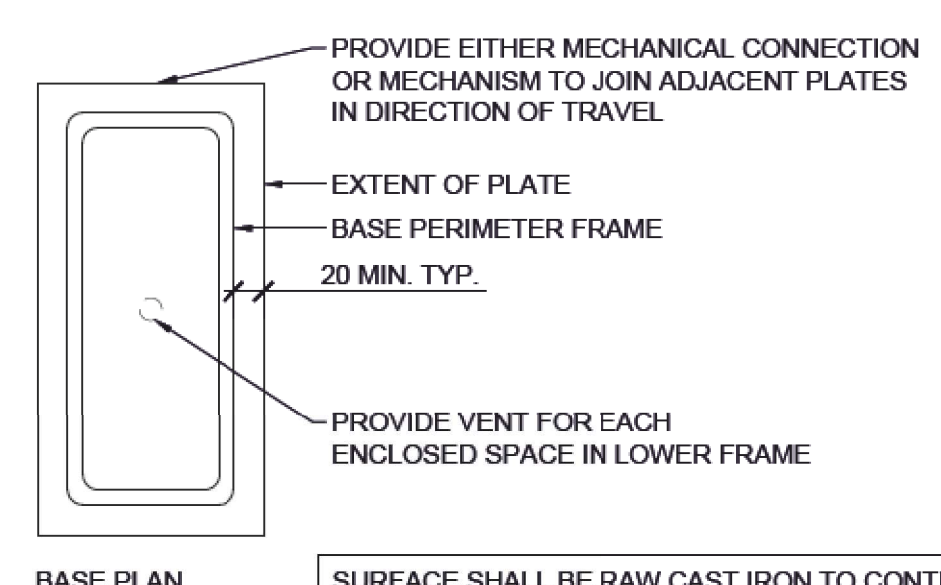
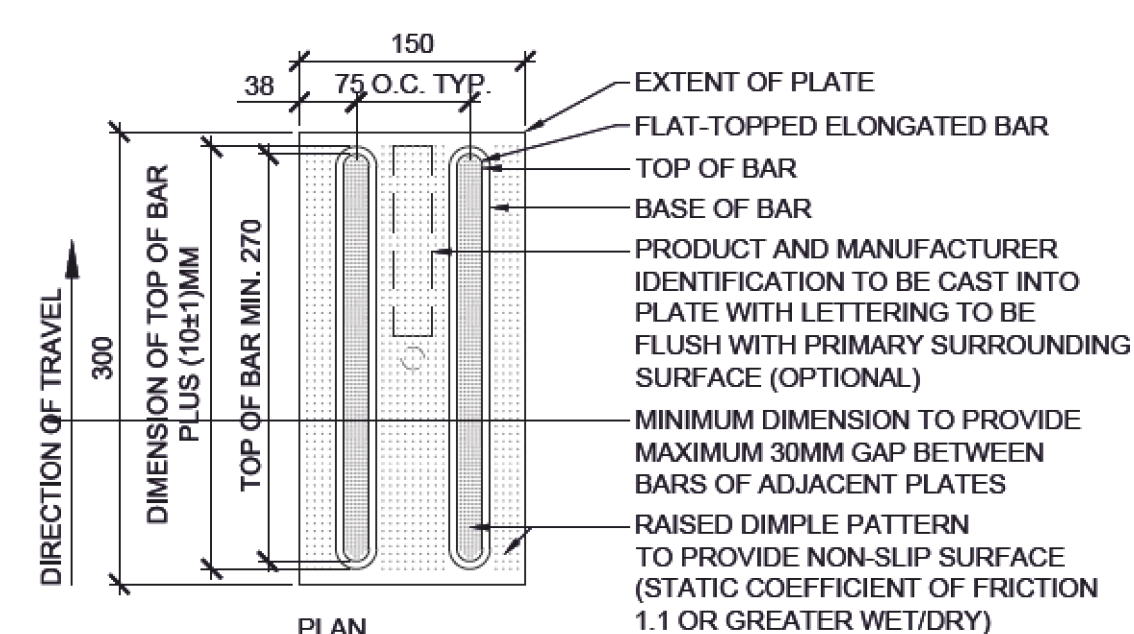
300MM WIDTH PRIMARY TACTILE GUIDANCE SURFACE INDICATOR (TGSi)

ACCEPTED ALTERNATE PRODUCTS TO BE DESIGNED IN COMPLIANCE WITH ISO 2359:2012



Cast iron Tactile Walking Surface Indicator products shall be Class 35B Grey Cast Iron (ASTM A 48) and conform to the following ASTM specifications:

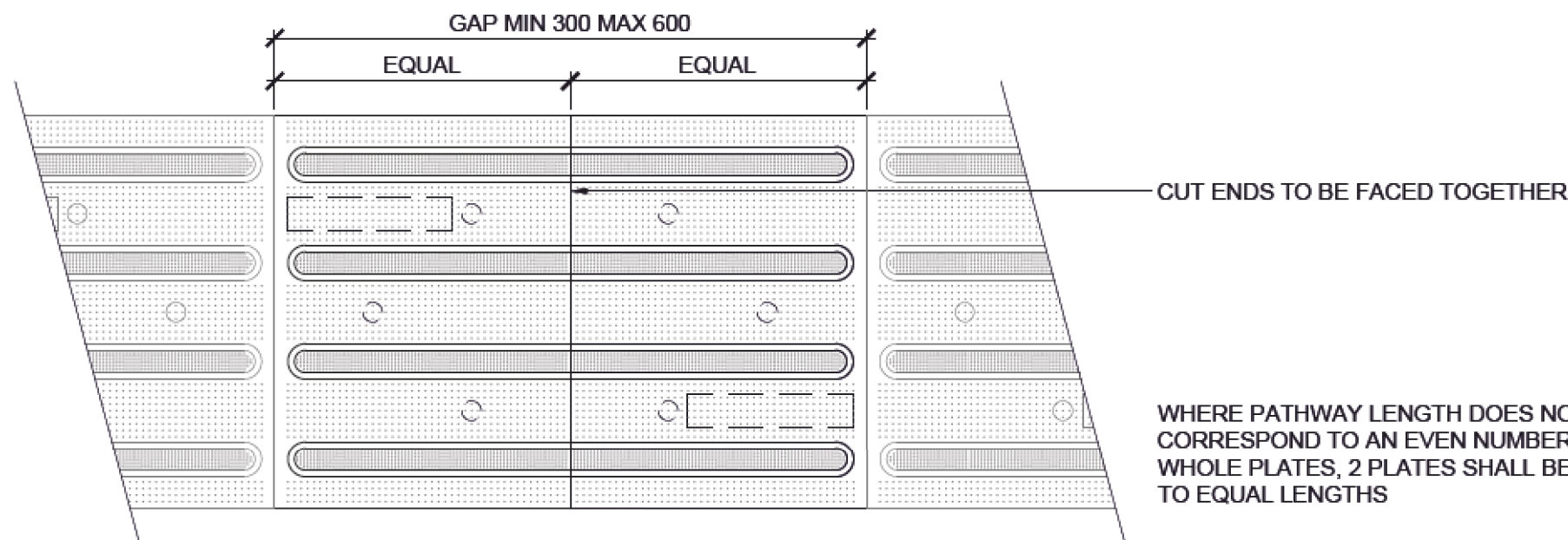
ASTM C 1028	Static Coefficient of Friction	>= 1.1 wet/dry
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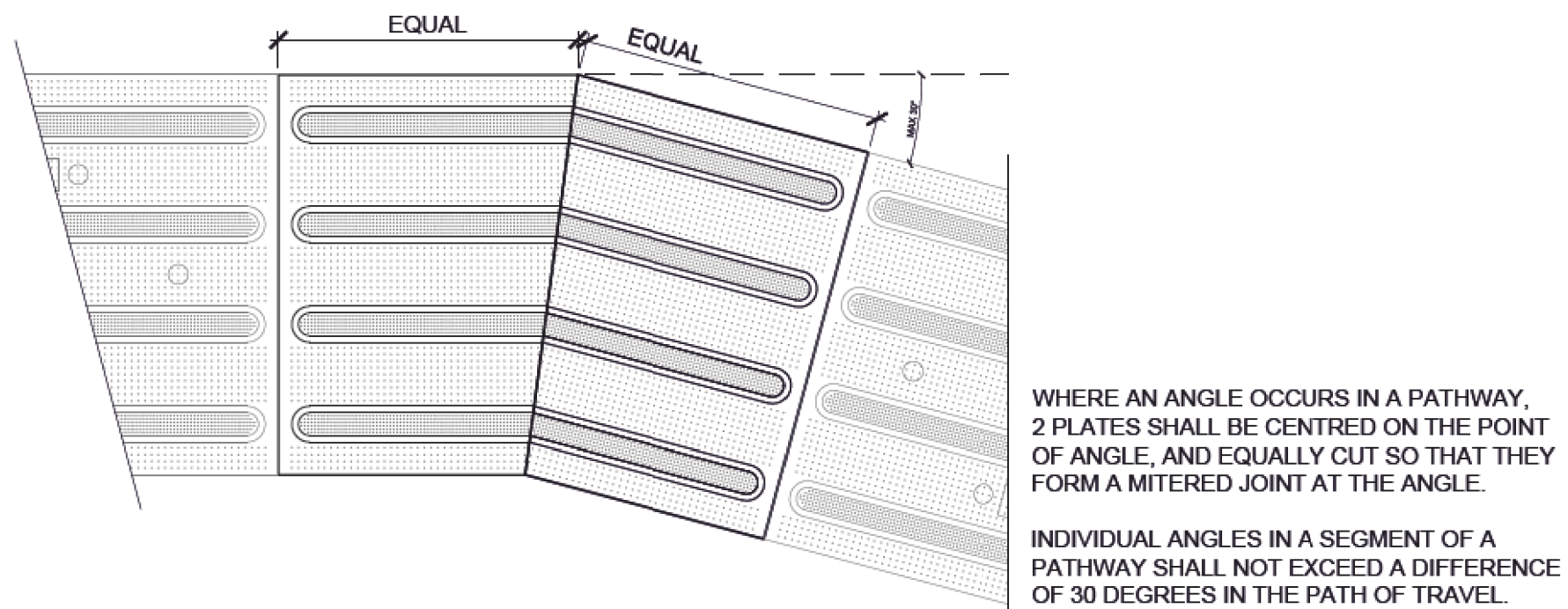
SURFACE SHALL BE RAW CAST IRON TO CONTRAST WITH SURROUNDING CONCRETE SURFACES.
RAW CAST IRON SHOULD HAVE PREPATINA SURFACE PRIOR TO PLACEMENT TO MINIMIZE RUST STAINING.

150MM WIDTH PRIMARY TACTILE GUIDANCE SURFACE INDICATOR (TGSi)

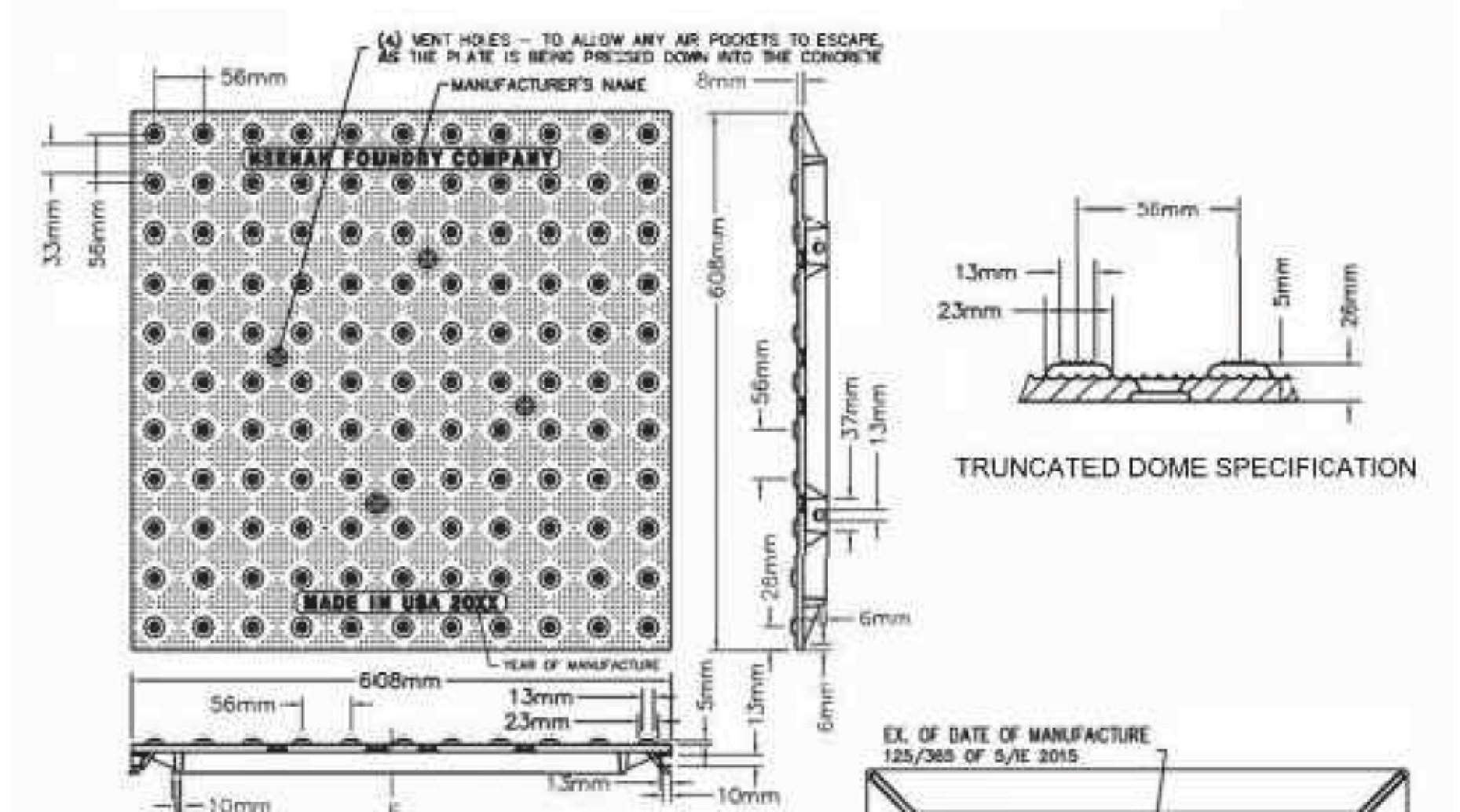
ACCEPTED ALTERNATE PRODUCTS TO BE DESIGNED IN COMPLIANCE WITH ISO 2359:2012



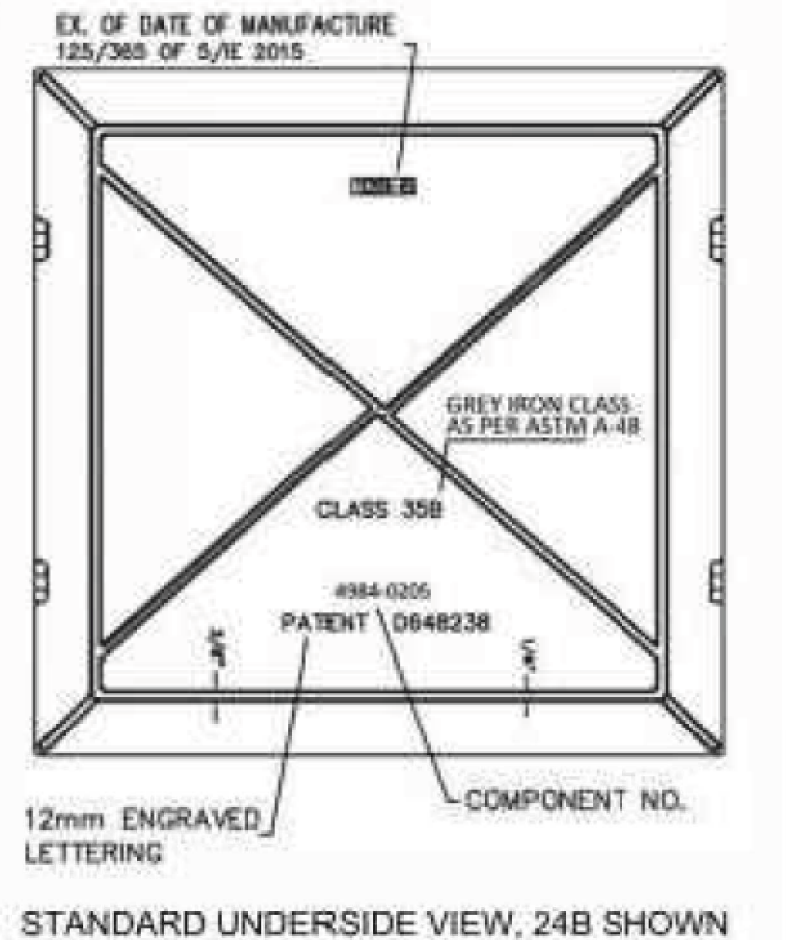
TGSi CUT PLATES JOINT DETAIL



TGSi CUT PLATES ANGLE JOINT DETAIL



Note:
Plate shown is the 24B.
Dome dimensions can vary as plate size changes.
All plates are compliant to ISO 23599:2012, Sec. 4.1.2.4. and Canadian and Ontario standards.



600 x 600mm TACTILE WARNING SURFACE INDICATOR

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	revisions		

		Consultant
A1 bar scale		
drawn by D. FRANKLIN	designed by J. SCHUREK	
checked by D. MARTIN	date 03-05-2019	consultant job no 14677

consultant reviewed by B. CAMPBELL	prime consultant job no	

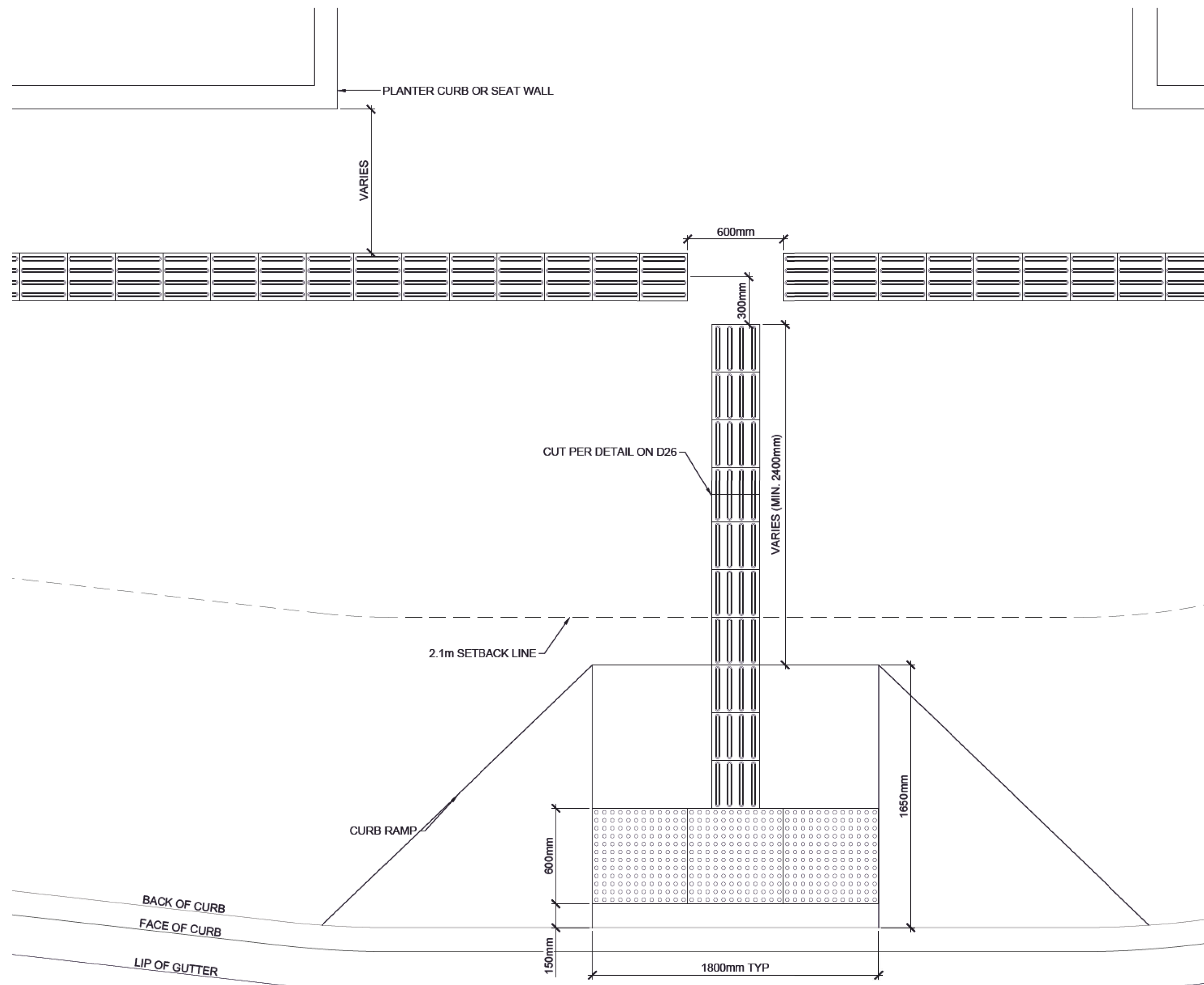
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prime consultant job no	prime consultant reviewed by	

ISSUED FOR TENDER		
prime consultant reviewed by		

drawing title			
MILL WOODS TRANSIT CENTRE			
STANDARD DETAILS			
drawing no.	REV	SHT	
MWTC 191 D26	0		

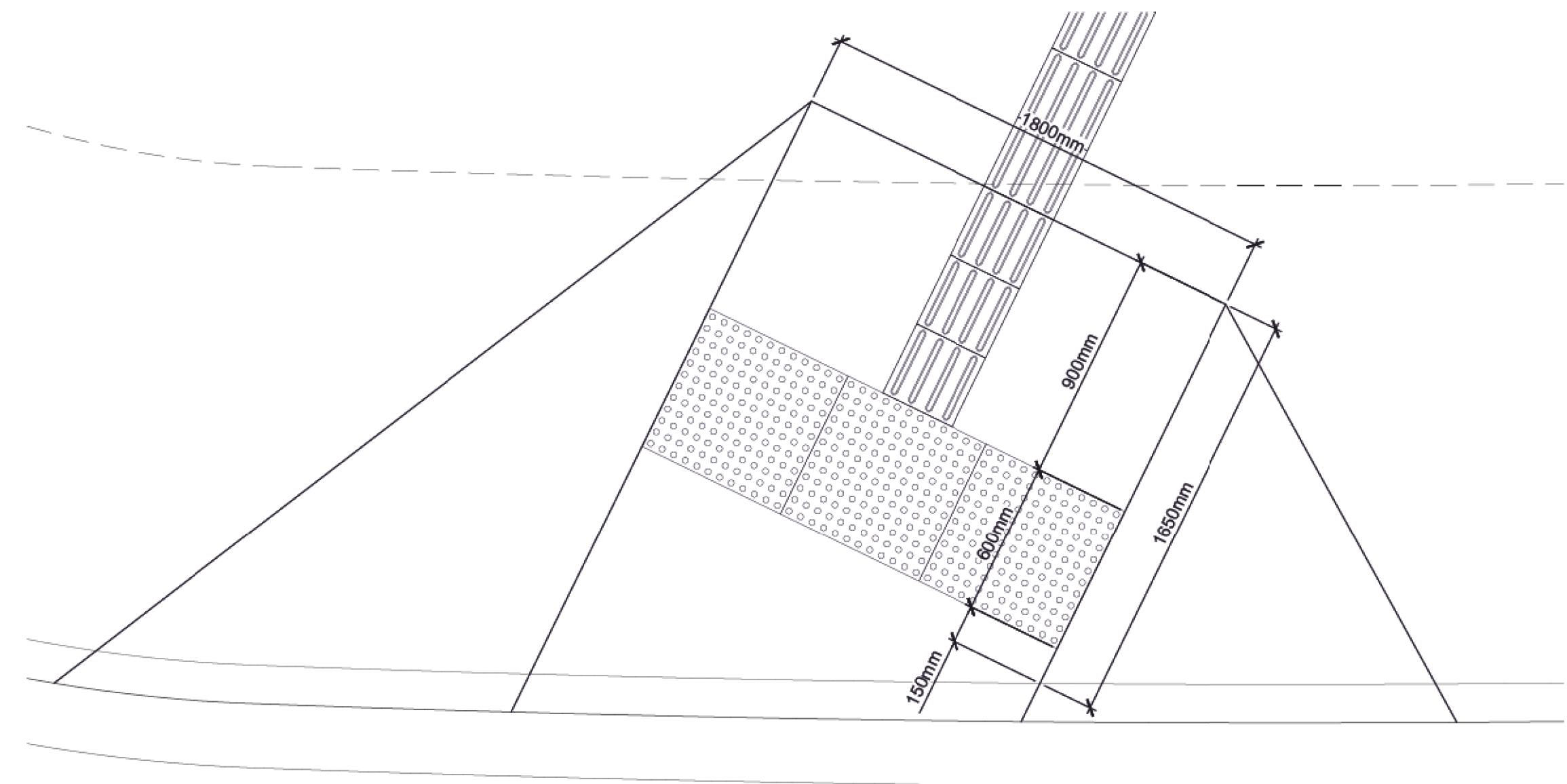
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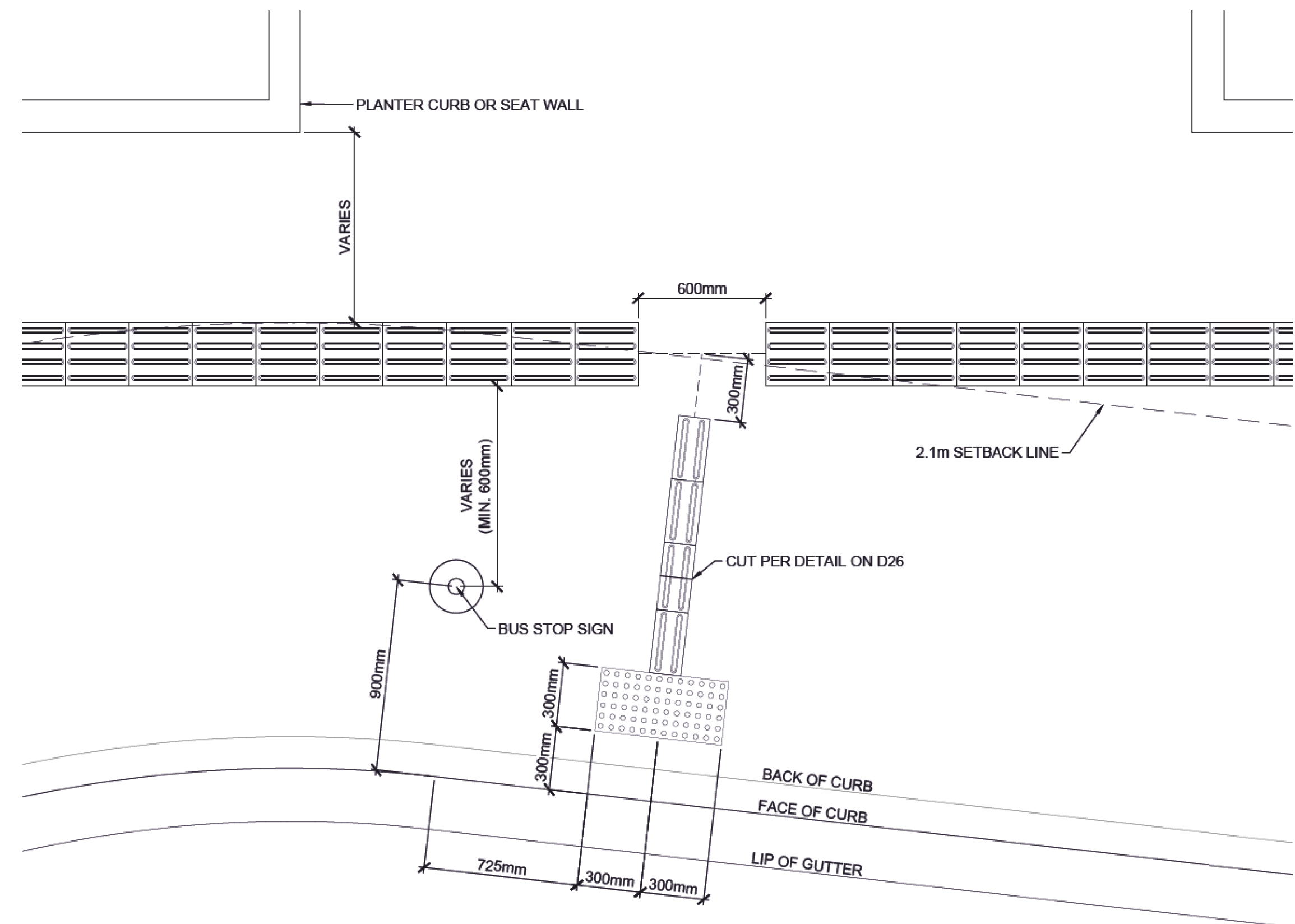
1 TWSI AT CURB RAMP - TYPICAL
PLAN

SCALE 1:20



2 TWSI AT NON-PERPENDICULAR CROSSING
PLAN

SCALE 1:20



3 TWSI AT BUS STOP
PLAN

SCALE 1:20

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consultant job no 14677

consultant reviewed by B. CAMPBELL

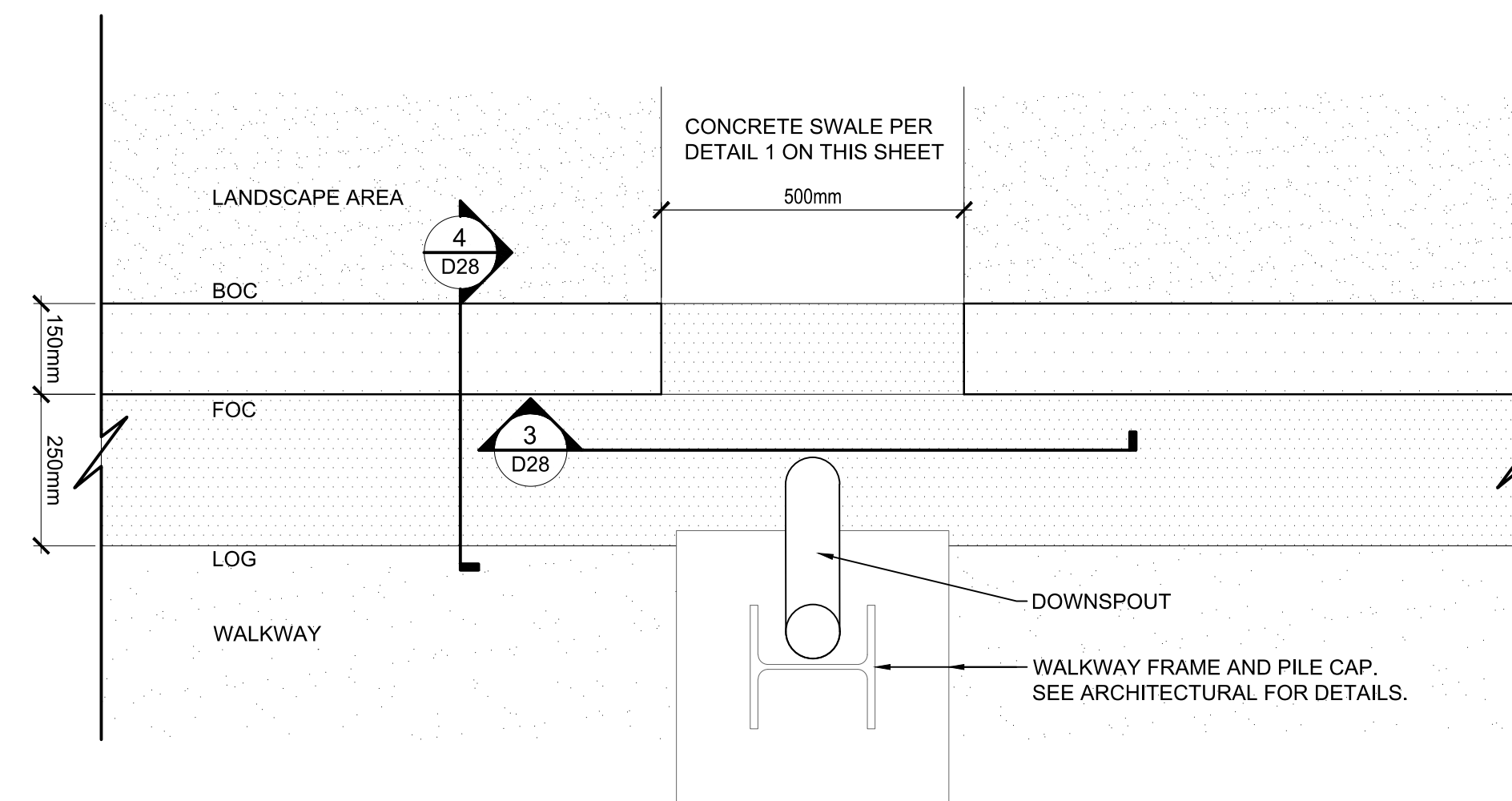
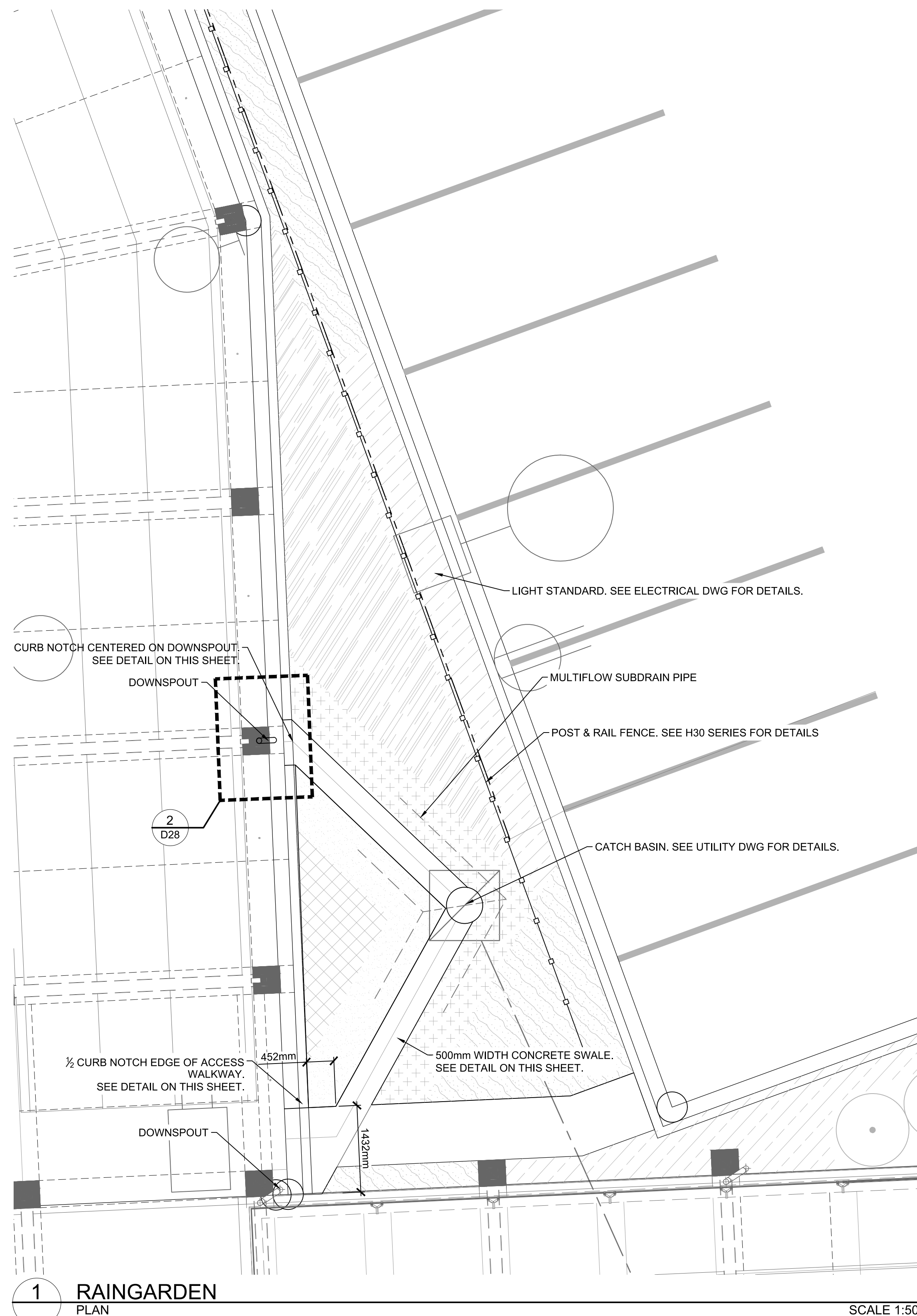
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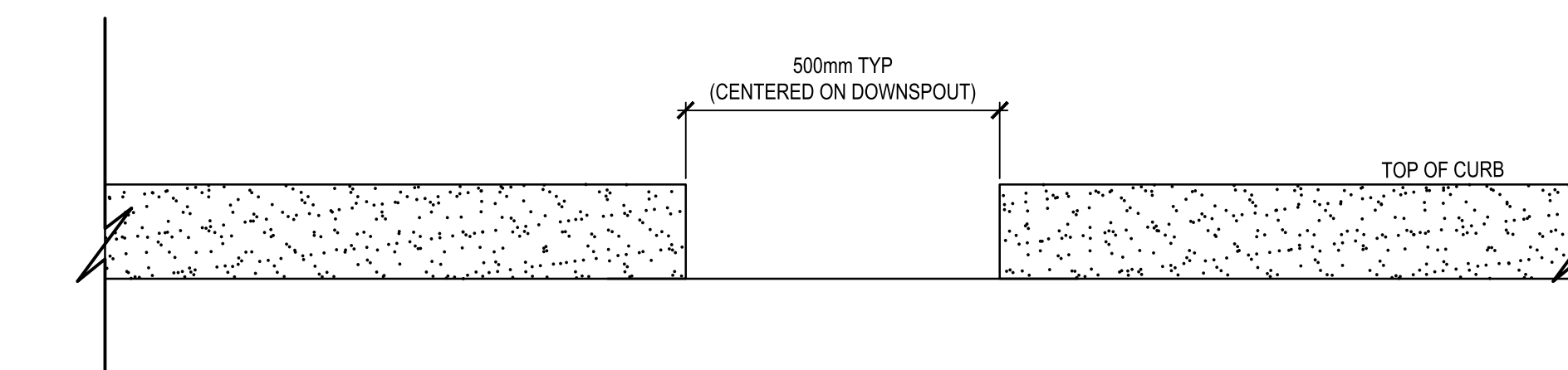
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MILL WOODS TO DOWNTOWN	
drawing no. MWTC 191 D27	REV 0 SHT

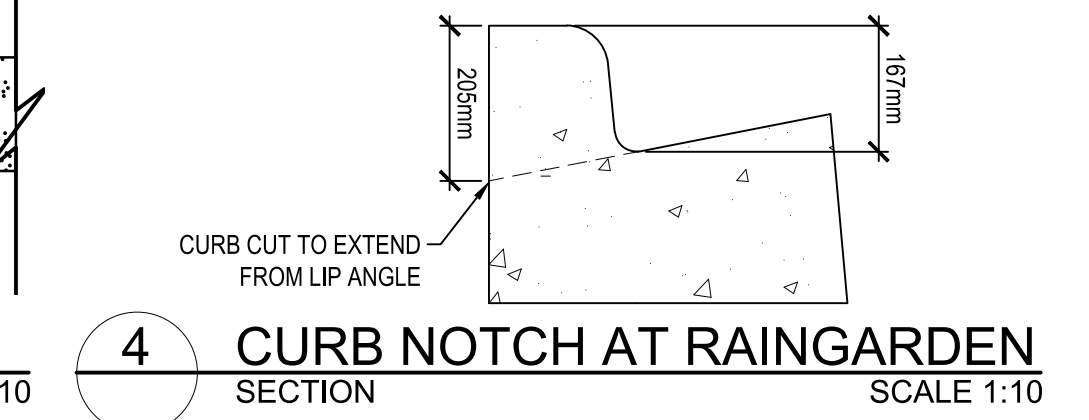
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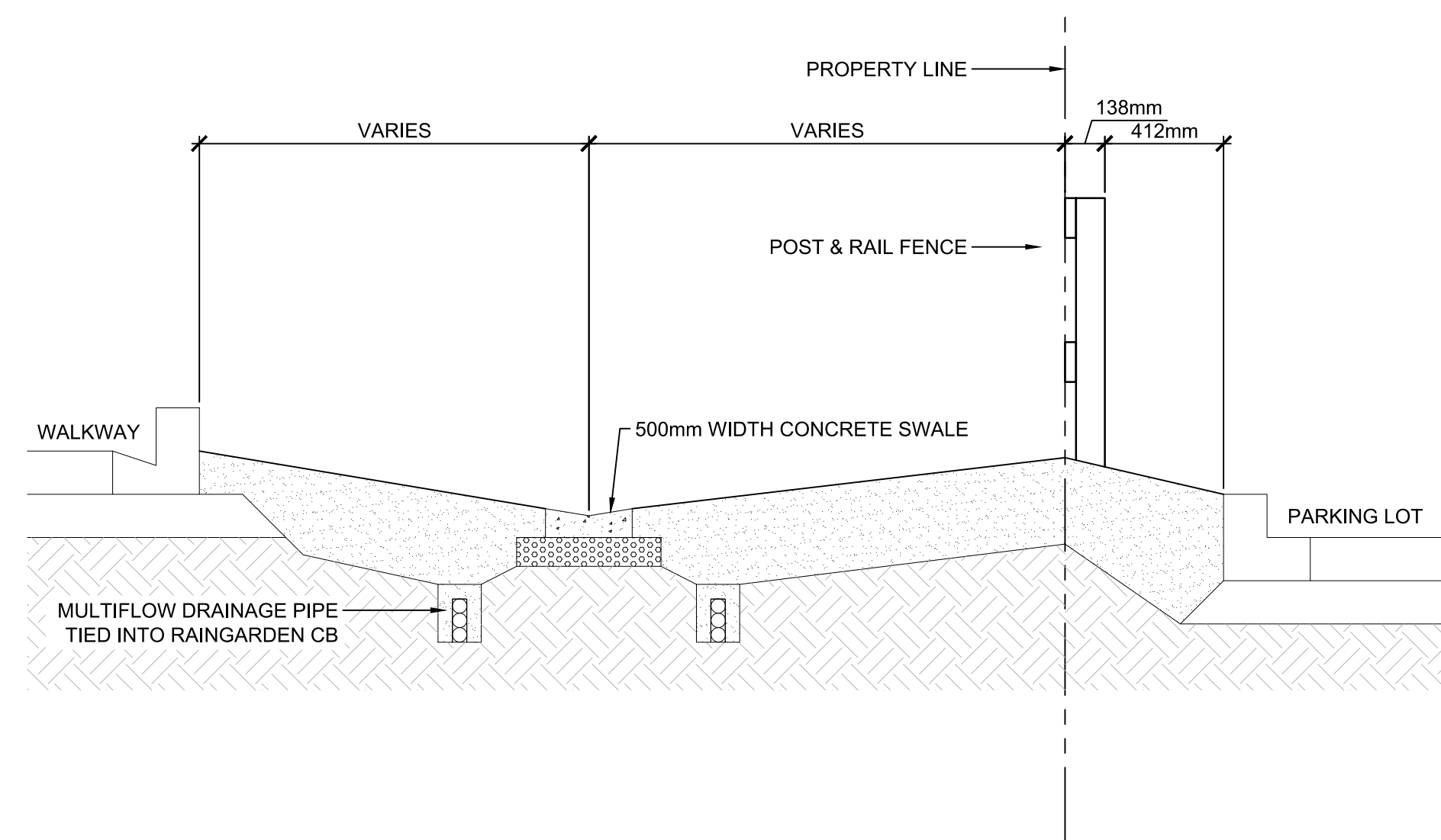
2 CURB NOTCH AT RAINGARDEN PLAN SCALE 1:10



3 CURB NOTCH AT RAINGARDEN ELEVATION SCALE 1:10



4 CURB NOTCH AT RAINGARDEN SECTION SCALE 1:10



5 RAINGARDEN SECTION SCALE 1:20

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Consultant

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date 03-05-2019

consultant job no 14677

The Alberta Association of Landscape Architects
Jeff Schurek
consultant reviewed by B. CAMPBELL

AECOM
Prime Consultant

Edmonton
prime consultant job no

HATCH

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prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

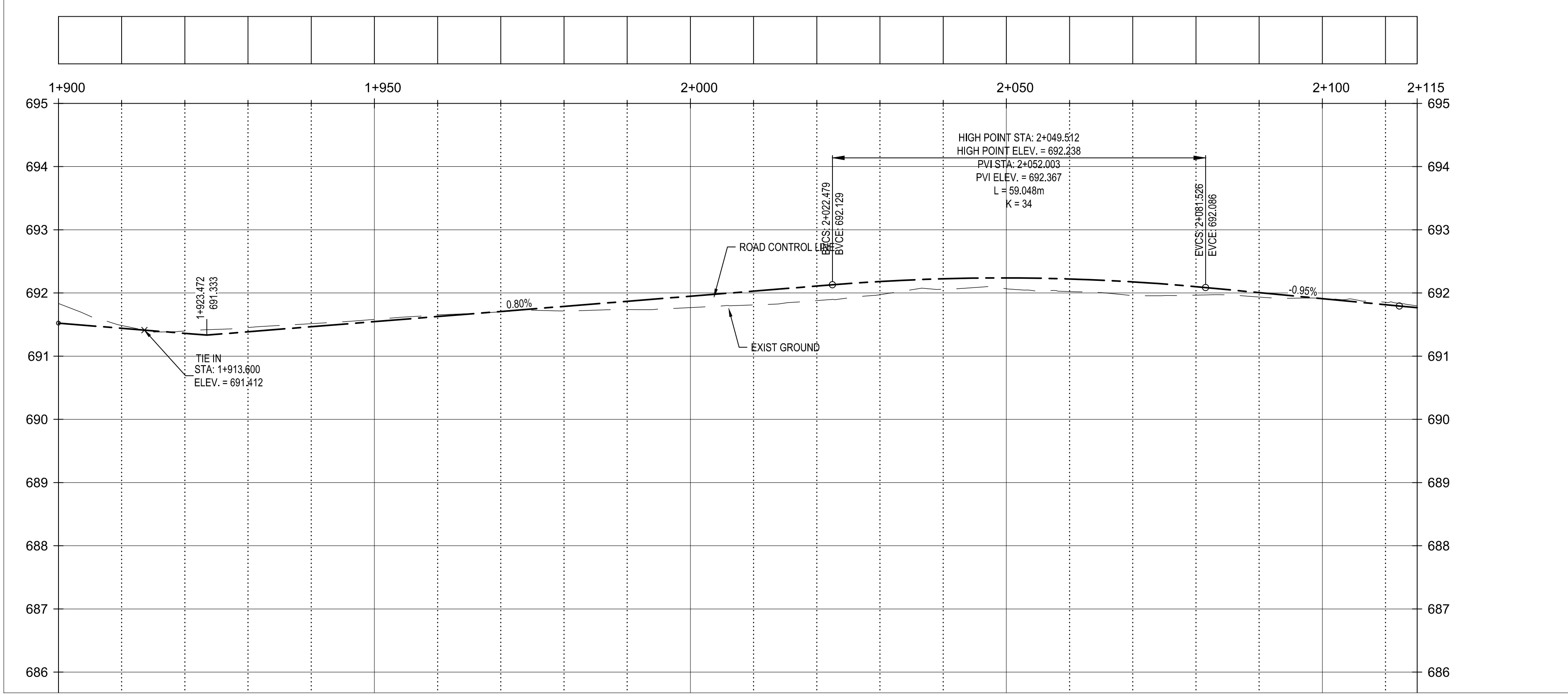
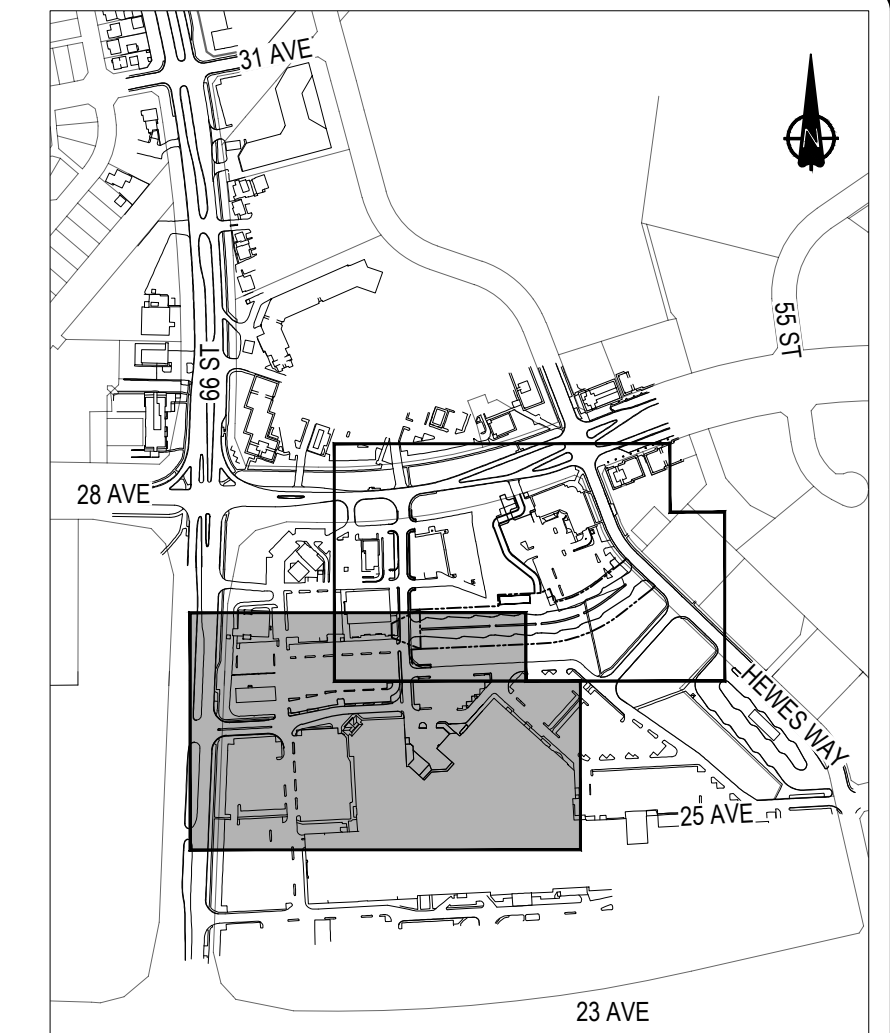
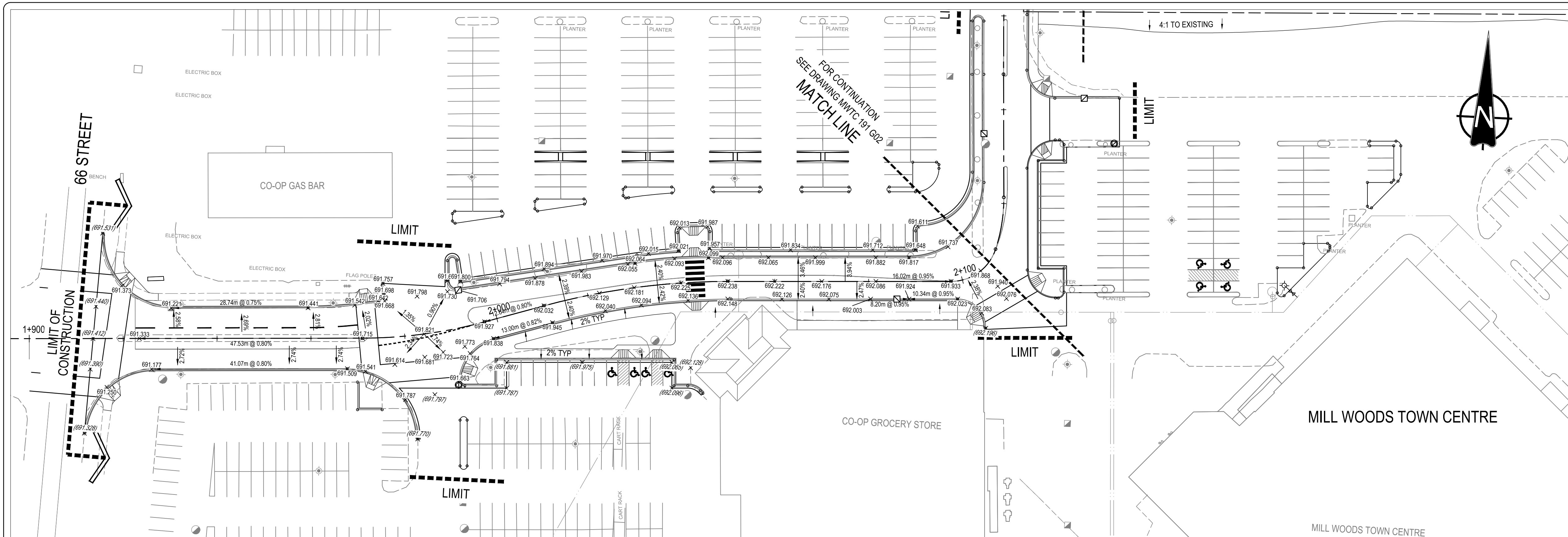
gec architecture

drawing title
MILL WOODS TRANSIT CENTRE
STANDARD DETAILS

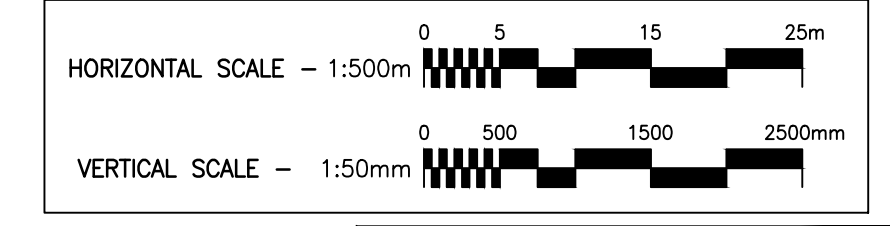
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 D28
REV 0
SHT

RMULLER May 6, 2019 - J:\1460014677_VALLEY_LINE_LRT_DE_CONSTRUCTION02_CADD\02_DRAFTING\02_MWTC\02_12_DETAILED DESIGN\MWTC 191 G01.DWG



- GRADE NOTES**
- ALL ELEVATIONS ARE LIP OF GUTTER OR TOP OF FINAL ASPHALT SURFACE, UNLESS OTHERWISE NOTED.
 - EXISTING ELEVATIONS - (692.009) PROPOSED ELEVATIONS - 692.009
 - ALL CHAINAGES AND OFFSETS SHOWN ARE BASED ON THE CONTROL LINE.
 - ALL DISTANCES @ GRADE SHOWN ARE BASED ON CONTROL LINE WITH THE EXCEPTION OF THE CURB RETURNS, TAPERS AND TRANSITIONS.



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

no.	description	date	checked
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	description	date	appd
	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale

drawn by R. MULLER
designed by K. LAU
checked by D. MARTIN
date 03-05-2019

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.
Signature
Date 2019-05-06
PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

consultant job no 14677

Professional Engineering
2019-05-06

consultant reviewed by B. CAMPBELL

AECOM
Prime Consultant

Edmonton

prime consultant job no

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prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

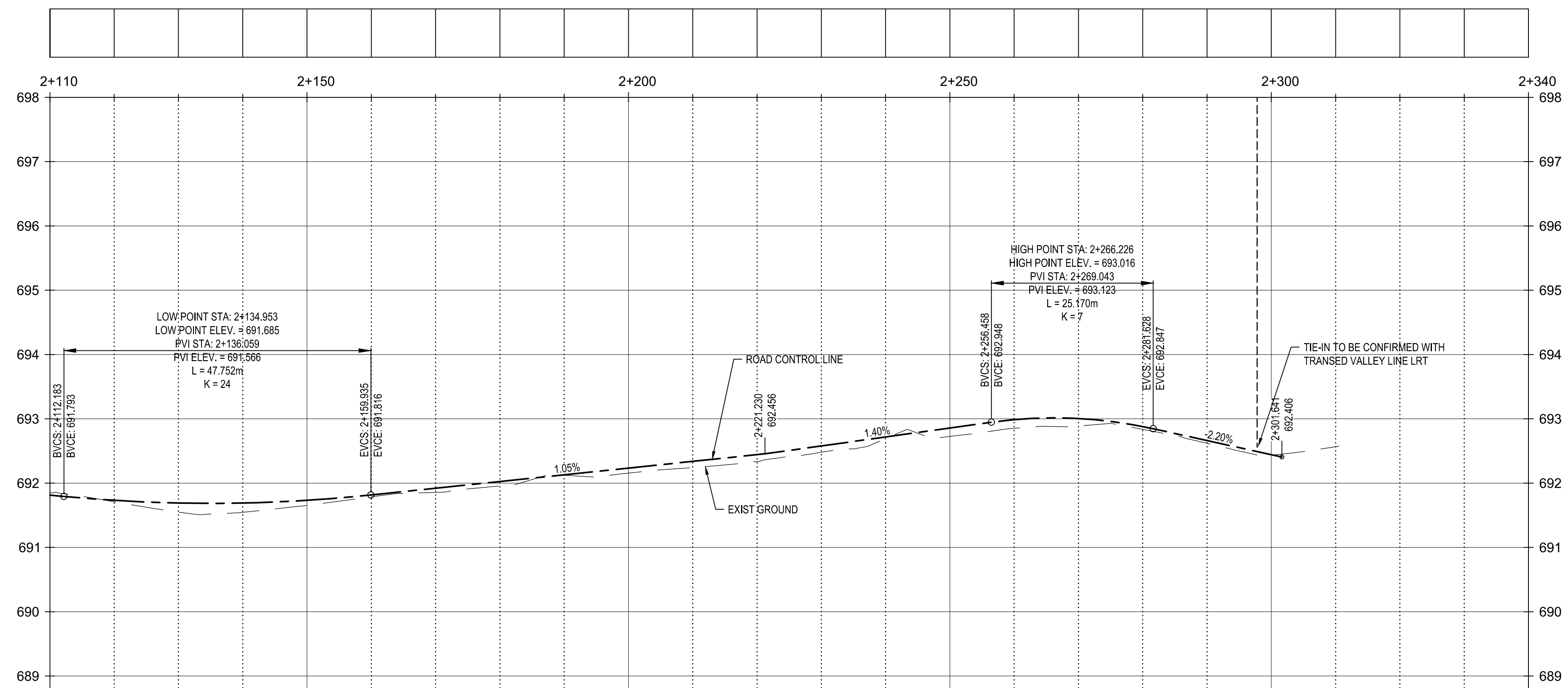
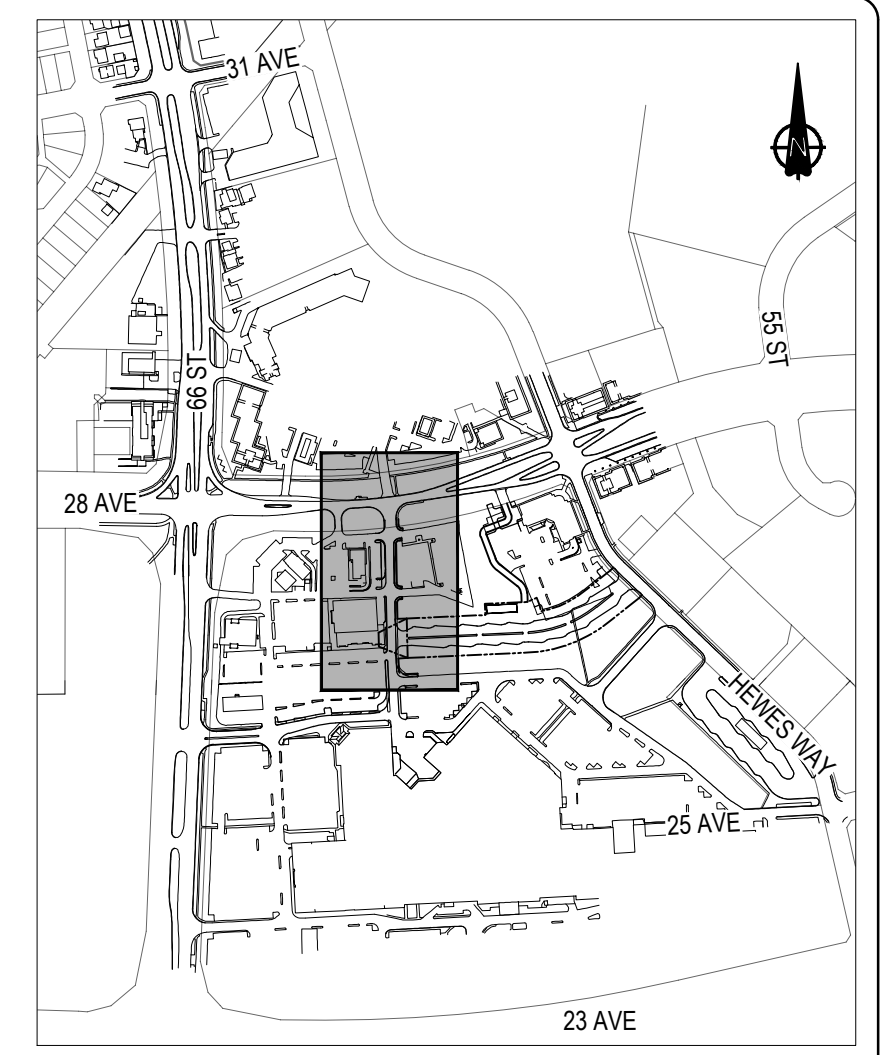
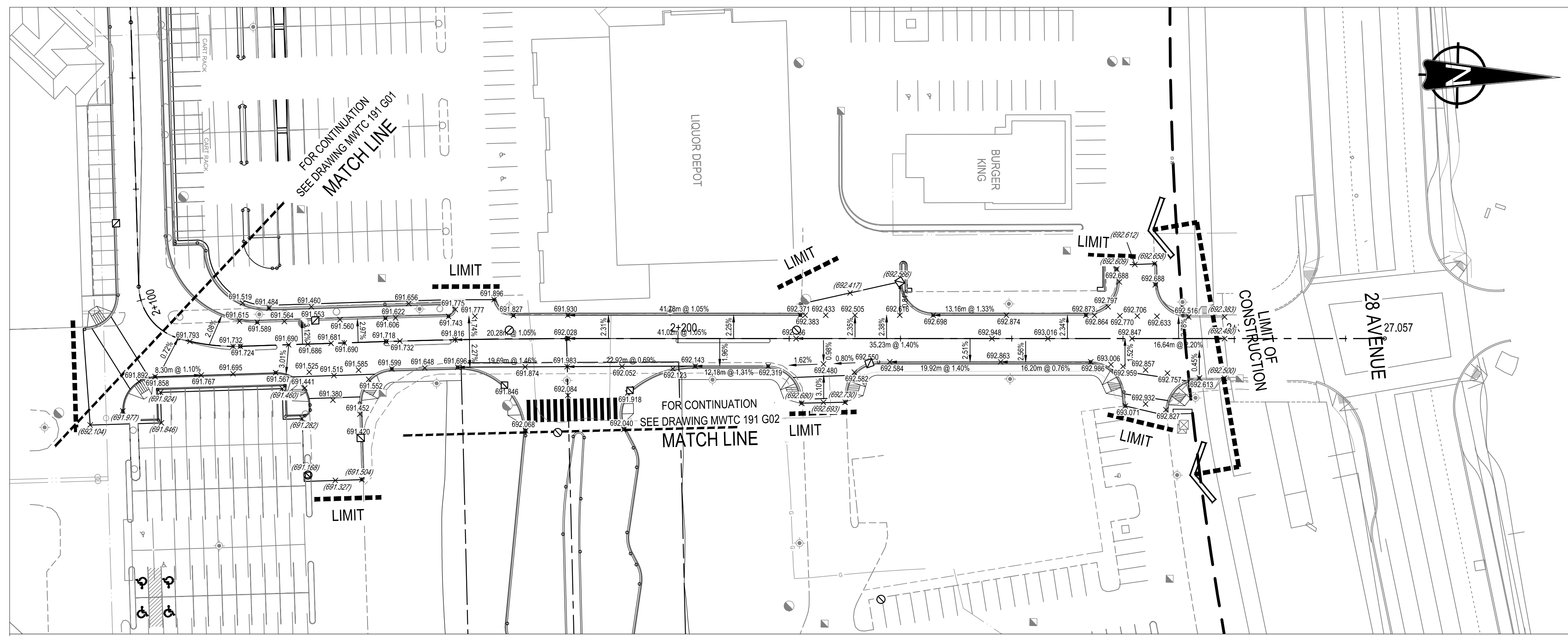
gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
66 STREET ACCESS ROAD
GRADING & PLAN / PROFILE

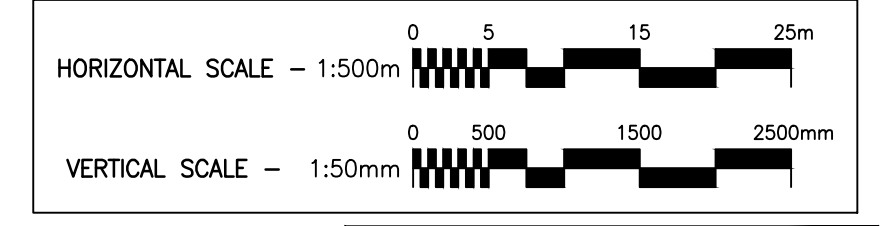
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 G01**
REV 0
SHT

R\MULLER_May 6, 2019_11:48:01:4677_VALLEY_LINE_LRT_DE_CONSTRUCTION02_CADD020_DRAFTING02_MWTC0212_DETAILED DESIGN\MWTC 191 G01.DWG



- GRADE NOTES**
- ALL ELEVATIONS ARE LIP OF GUTTER OR TOP OF FINAL ASPHALT SURFACE, UNLESS OTHERWISE NOTED.
 - EXISTING ELEVATIONS - (692.009) PROPOSED ELEVATIONS - 692.009
 - ALL CHAINAGES AND OFFSETS SHOWN ARE BASED ON THE CONTROL LINE.
 - ALL DISTANCES @GRADE SHOWN ARE BASED ON CONTROL LINE WITH THE EXCEPTION OF THE CURB RETURNS, TAPERS AND TRANSITIONS.



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

A	ISSUED FOR TENDER	03-05-19	D.M.
no.	description	date	appd
	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale

drawn by R. MULLER
designed by K. LAU
checked by D. MARTIN
date 03-05-2019

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.
Signature
Date 2019-05-06
PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

consultant job no 14677

Professional Engineering
2019-05-06
consultant reviewed by B. CAMPBELL

AECOM
Prime Consultant

Edmonton
prime consultant job no

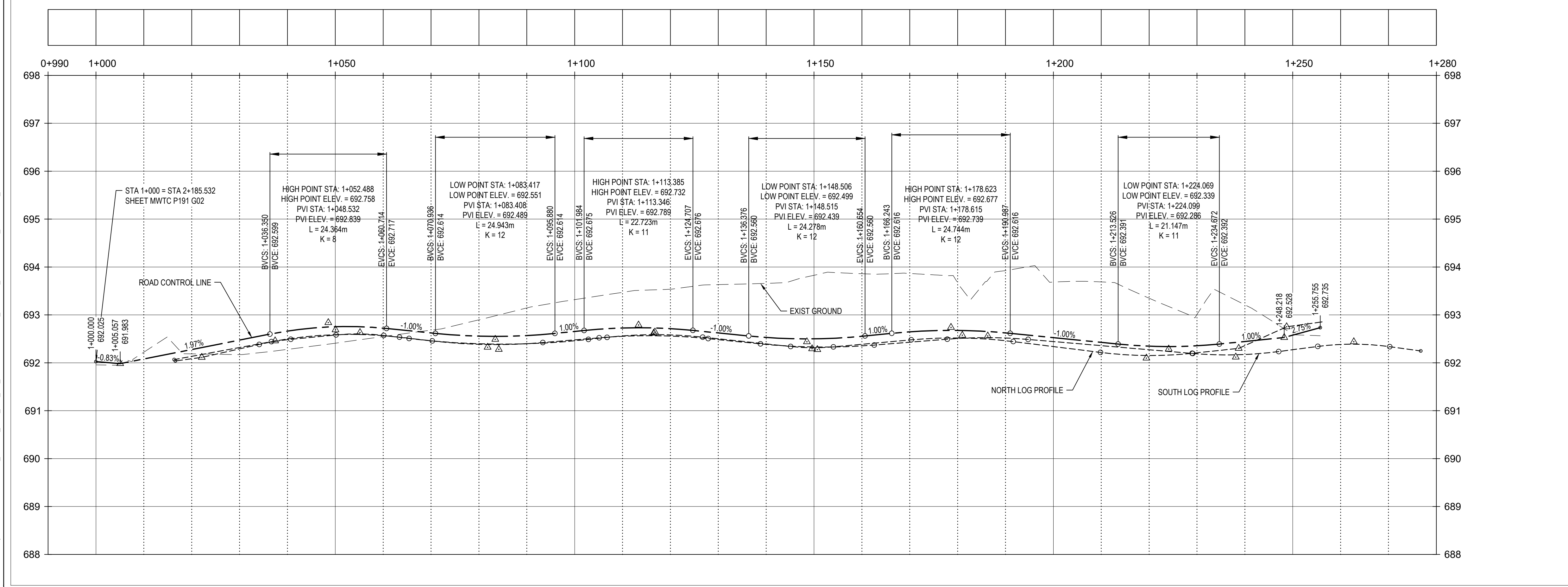
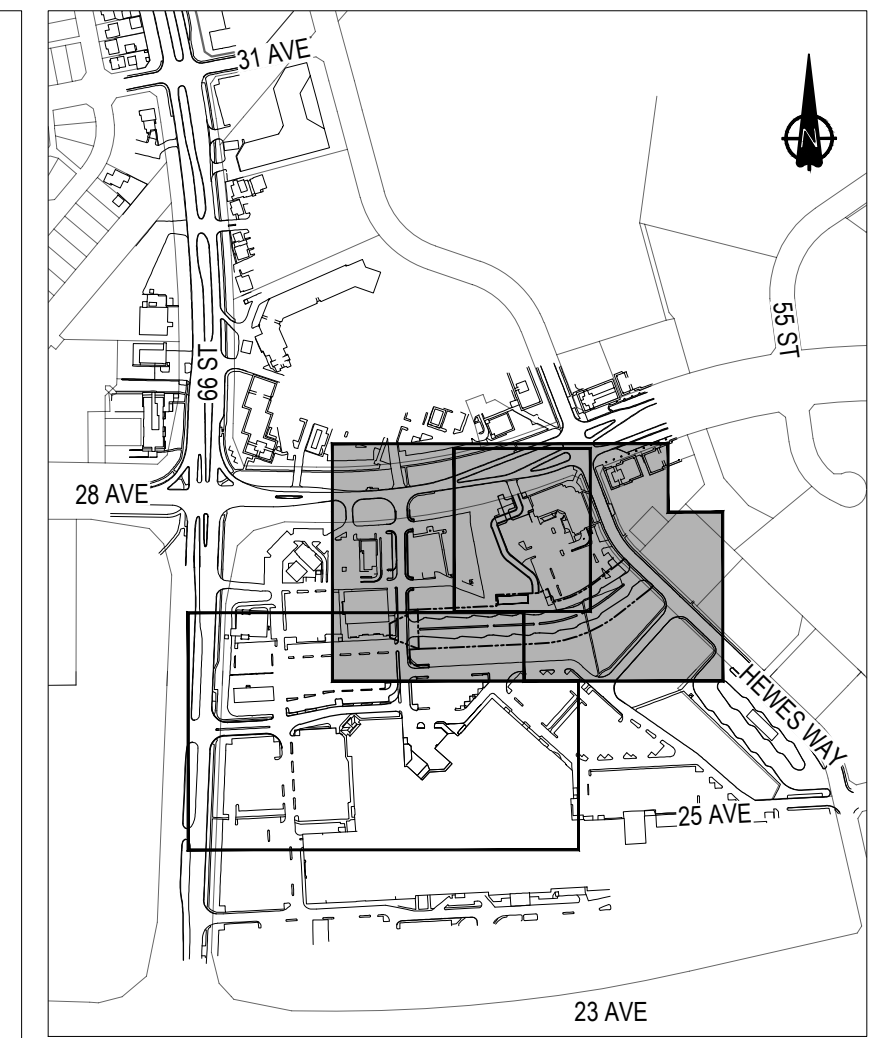
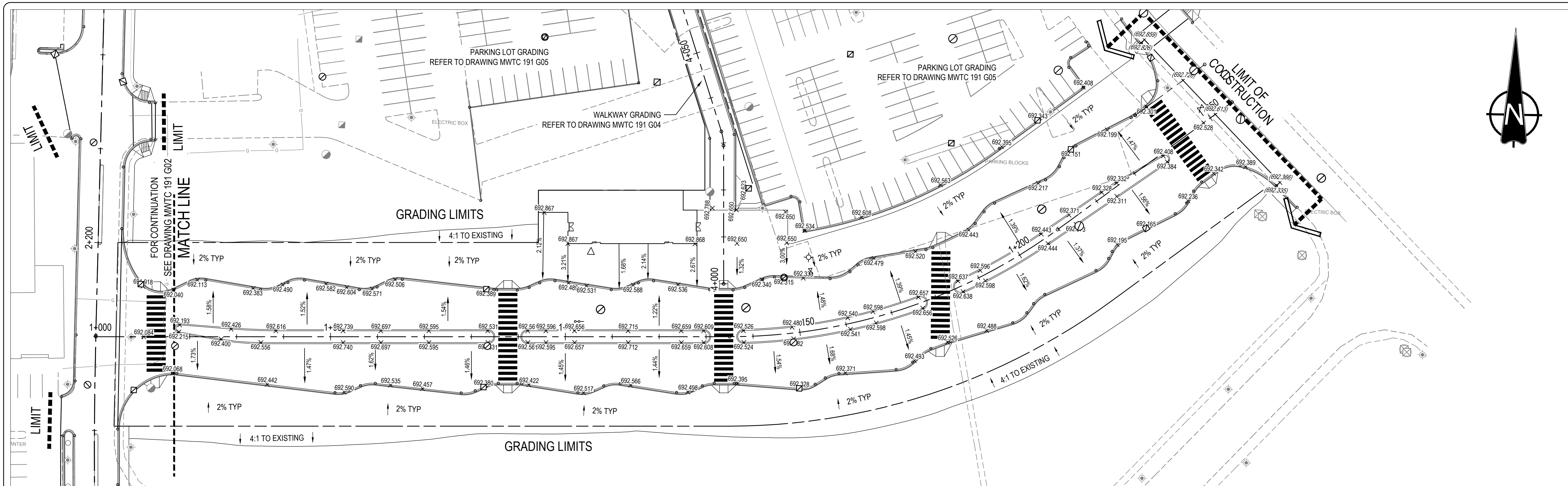
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prime consultant reviewed by

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DIALOG
gpc architecture

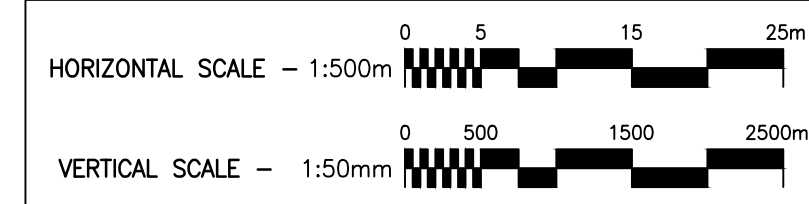
drawing title
MILL WOODS TRANSIT CENTRE
66 STREET ACCESS ROAD
GRADING & PLAN / PROFILE

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 G02**
REV 0
SHT



- GRADE NOTES**
1. ALL ELEVATIONS ARE LIP OF GUTTER OR TOP OF FINAL ASPHALT SURFACE, UNLESS OTHERWISE NOTED.
 2. EXISTING ELEVATIONS - (692.009) PROPOSED ELEVATIONS - 692.009
 3. ALL CHAINAGES AND OFFSETS SHOWN ARE BASED ON THE CONTROL LINE. ALL DISTANCES @ GRADE SHOWN ARE BASED ON CONTROL LINE WITH THE EXCEPTION OF THE CURB RETURNS, TAPERS AND TRANSITIONS.
 - 4.



NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" FORMAT

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	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

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drawn by
R. MULLER

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checked by
D. MARTIN

date
03-05-2019

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ISL Engineering and Land Services Ltd.

Signature
Date 2019-05-06

PERMIT NUMBER: P 4741
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consultant job no
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Professional Engineering
2019-05-06

consultant reviewed by
B. CAMPBELL

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Edmonton

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ISL Engineering and Land Services

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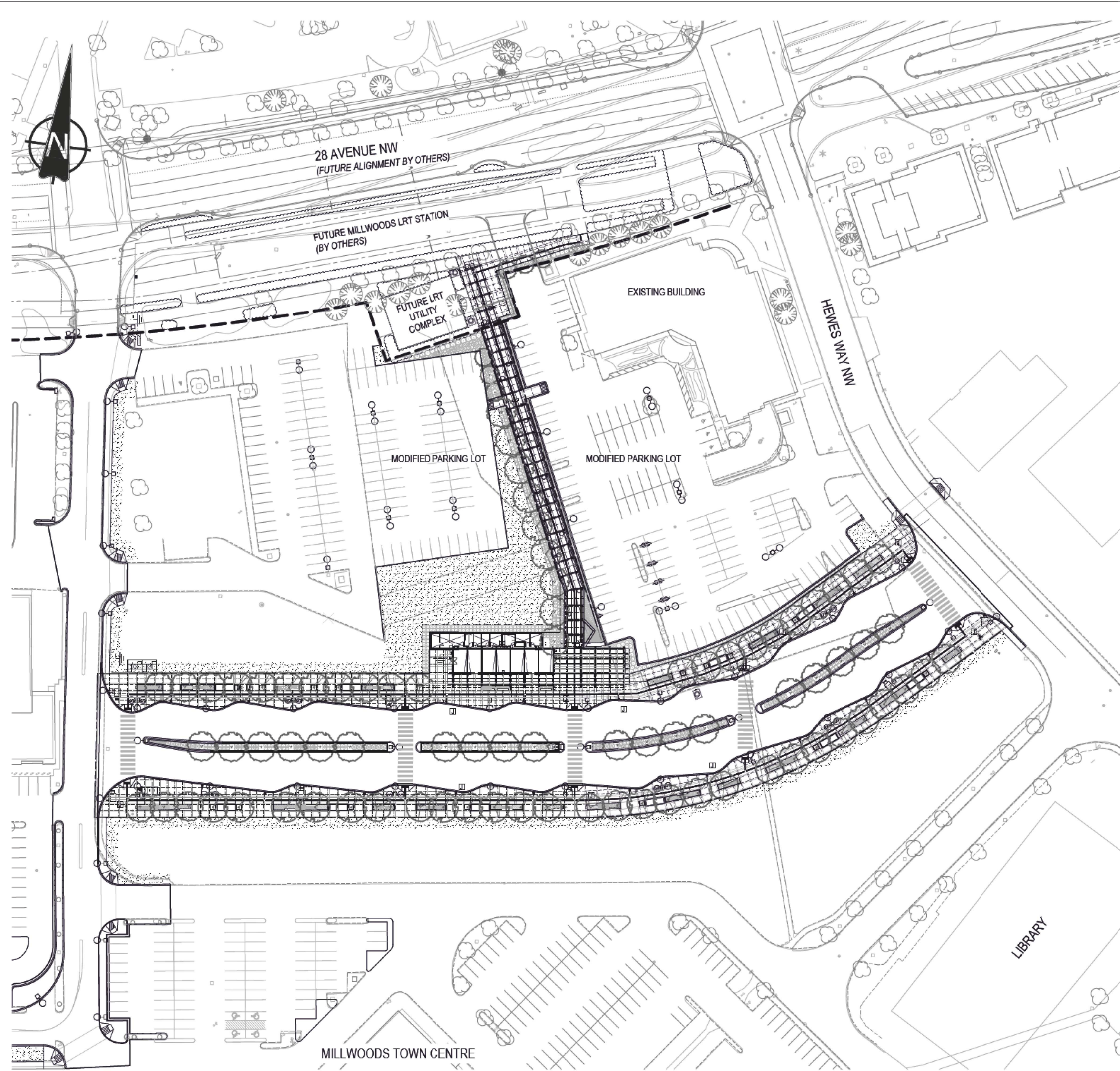
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TRANSIT CENTRE
GRADING & PLAN / PROFILE

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 G03

REV 0
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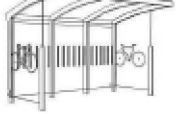





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PLANT SCHEDULE

TREES	QTY	BOTANICAL NAME	COMMON NAME	REMARKS	SIZE	
FN	32	Fraxinus americana 'Northern Blaze'	Northern Blaze White Ash	Ball & Burlap	60mm Cal.	
FP	6	Fraxinus pennsylvanica 'Rugby'	Prairie Spire Ash	Ball & Burlap	60mm Cal.	
TA	10	Tilia americana 'Duros'	True North American Linden	Ball & Burlap	60mm Cal.	
UB	37	Ulmus americana 'Brandon'	Brandon Elm	Ball & Burlap	60mm Cal.	
SHRUBS	QTY	BOTANICAL NAME	COMMON NAME	REMARKS	SIZE	
BT	284	Berberis thunbergii 'Rose Glow'	Rose Glow Barberry	#2 Container	300mm Ht.	
CP	272	Caragana pygmaea	Pygmy Caragana	#2 Container	300mm Ht.	
EA	15	Euonymus alatus	Winged Burning Bush	#2 Container	450mm Sp.	
JA	73	Juniperus horizontalis plumosa 'Andorra'	Andorra Juniper	#5 Container	450mm Sp.	
PO	66	Physocarpus opulifolius 'Dart's Gold'	Dart's Gold Ninebark	#2 Container	450mm Ht.	
RA	59	Ribes alpinum	Alpine Currant	#2 Container	300mm Ht.	
ANNUALS/PERENNIALS	QTY	BOTANICAL NAME	COMMON NAME	REMARKS	SIZE	
HO	263	Hemerocallis x 'Stella de Oro'	Stella de Oro Daylily	150mm Pot	2 Years Old	
ORNAMENTAL GRASSES	QTY	BOTANICAL NAME	COMMON NAME	REMARKS	SIZE	SPACING
CK2	2,657	Calamagrostis x acutiflora 'Karl Foerster'	Karl Foerster Reed Grass	PLUG	200mm O.C.	200mm
CU2	174	Carex utriculata	Beaked Sedge	PLUG	200mm O.C.	200mm
DT2	2,000	Deschampsia cespitosa	Tufted Hair Grass	PLUG	200mm O.C.	200mm
HS2	943	Helictotrichon sempervirens	Blue Oat Grass	PLUG	200mm O.C.	200mm
JT2	123	Juncus torreyi	Torrey's Rush	PLUG	200mm O.C.	200mm
PF2	1,180	Leymus arenarius 'Blue Dune'	Blue Dune Lyme Grass	PLUG	200mm O.C.	200mm
SL2	1,198	Schizachyrium scoparium	Little Bluestem Grass	PLUG	200mm O.C.	200mm

FURNISHINGS SCHEDULE

TREE GRATE	MAKE: URBAN ACCESSORIES
	MODEL: CASCADE
	FINISH: CAST GREY IRON - RAW NATURAL FINISH
BIKE SHELTER	MAKE: MMCITE
	MODEL: AUREA VELO AE-V315-01-LS
	FINISH: PER MANUFACTURERS SPECIFICATIONS
BIKE RACK	MAKE: N/A
	MODEL: N/A
	FINISH: SEE H20 SERIES FOR DETAILS
BIKE RACK REPAIR STATION	MAKE: DERO
	MODEL: FIT - SURFACE MOUNT CW AIR PUMP 3
	FINISH: POWDERCOAT - LIGHT GREY
LITTER RECEPTACLE	MAKE: FORMS + SURFACES
	MODEL: APEX 36 gal. SINGLE STREAM
	FINISH: STAINLESS STEEL - SATIN
EXTERIOR SEAT WALL BENCH	MAKE: N/A
	MODEL: N/A
	FINISH: SEE H20 SERIES FOR DETAILS (BACK NOT SHOWN IN PICTURE)
EXTERIOR FREESTANDING BENCH	MAKE: N/A
	MODEL: N/A
	FINISH: SEE ARCH SERIES FOR DETAILS

NOTES

- DRAWINGS SHOW ESTIMATED EXTENT OF DISTURBANCE REQUIRED FOR CONSTRUCTION. ALL ADDITIONAL DISTURBANCE TO ADJACENT LANDSCAPE WILL BE THE CONTRACTORS COST AND RESPONSIBILITY TO REHABILITATE TO AREAS WITH SEED ON 150mm DEPTH TOPSOIL UNLESS OTHERWISE NOTED.

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	revisions		

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A1 bar scale
1:750
0 7.5 15 22.5 37.5m
metric

drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
D. MARTIN

date
29-04-2019

consultant job no
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The Alberta Association of Landscape Architects
2019-05-01
Jeff Schurek

AECOM
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Edmonton

prime consultant job no

HATCH

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prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
LANDSCAPE CONTEXT AND NOTES

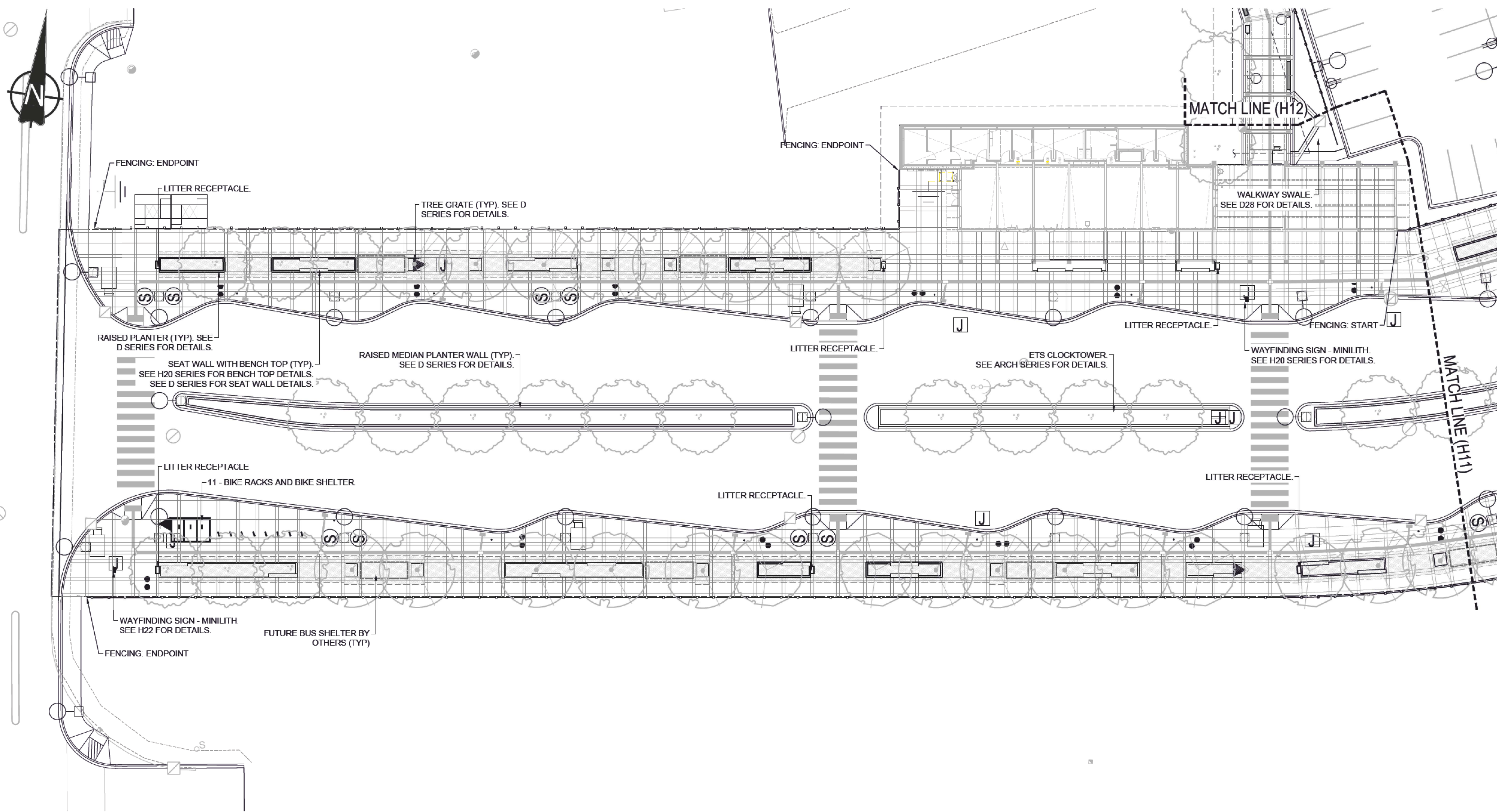


VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN


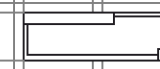





drawing no.
MWTC 191 H01

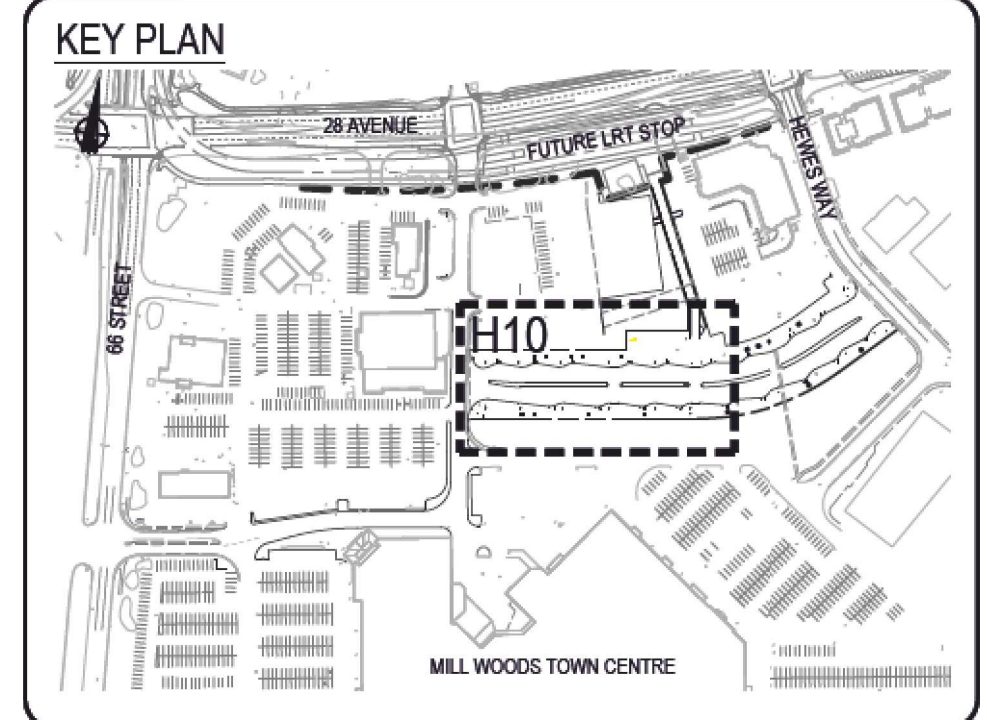
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LEGEND

-  FREESTANDING BENCH. SEE ARCHITECTURAL DWG FOR DETAILS.
-  PLANTER CURB & SEAT WALL WITH BENCH TOP. SEE D SERIES FOR CONCRETE DETAILS & H20 SERIES FOR BENCH TOP DETAILS.
-  STRUCTURAL SOIL CELLS. SEE D SERIES FOR DETAILS.
-  TREE GRATE AND FRAME. SEE D SERIES FOR DETAILS.
-  POST & RAIL FENCE. SEE H40 SERIES FOR DETAILS.
-  LIGHT STANDARD
-  EMERGENCY PHONE



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	issue date		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:250
0 2.5 5 7.5 12.5m

drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
D. MARTIN

date
03-05-2019

consultant job no
14677

The Alberta Association of Landscape Architects
2019-05-03
Jeff Schurek

AECOM
Prime Consultant

Edmonton

prime consultant job no

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DIALOG

gpc architecture

drawing title
MILL WWOODS TRANSIT CENTRE
FURNISHINGS & FENCING PLAN

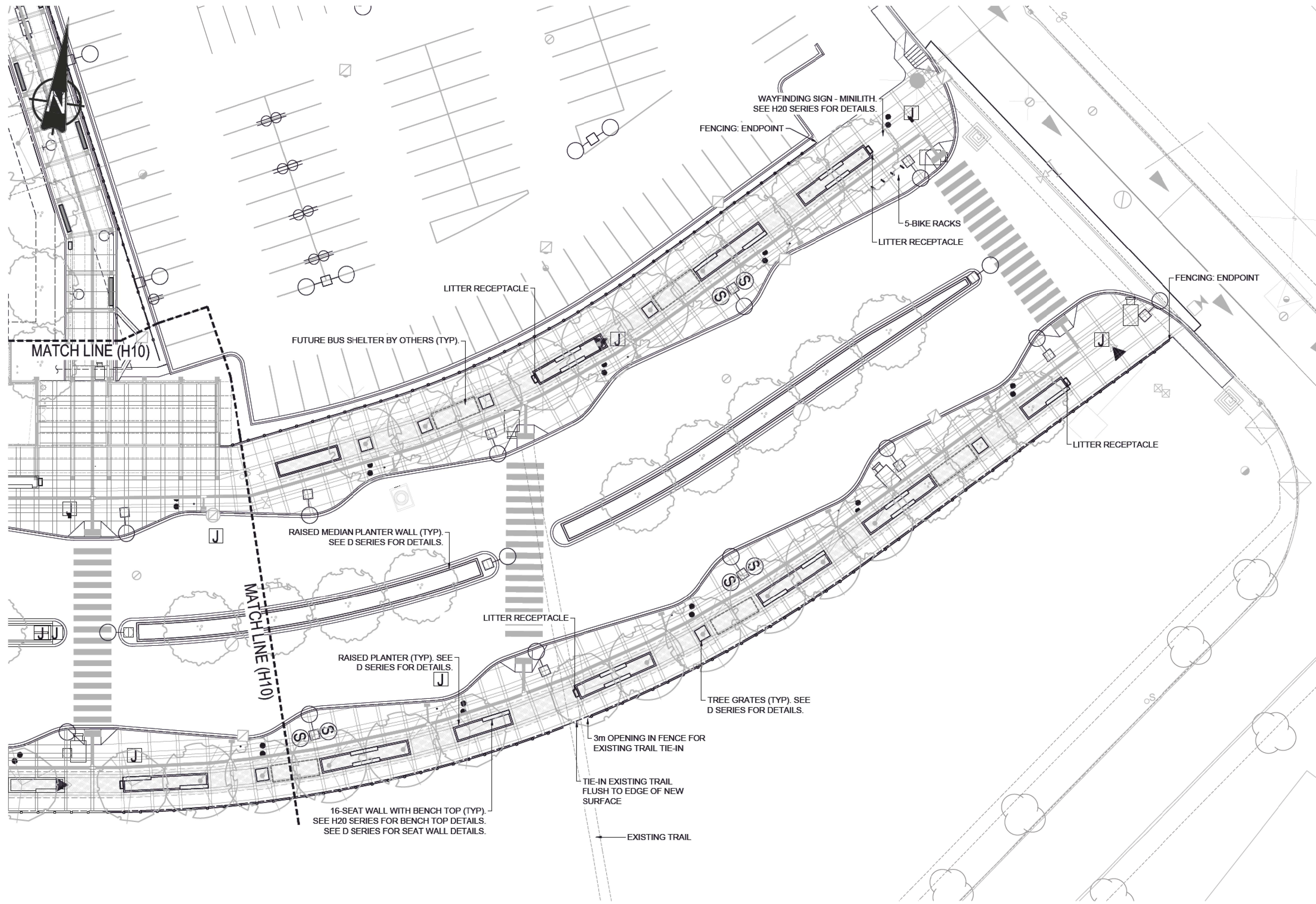


VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 H10

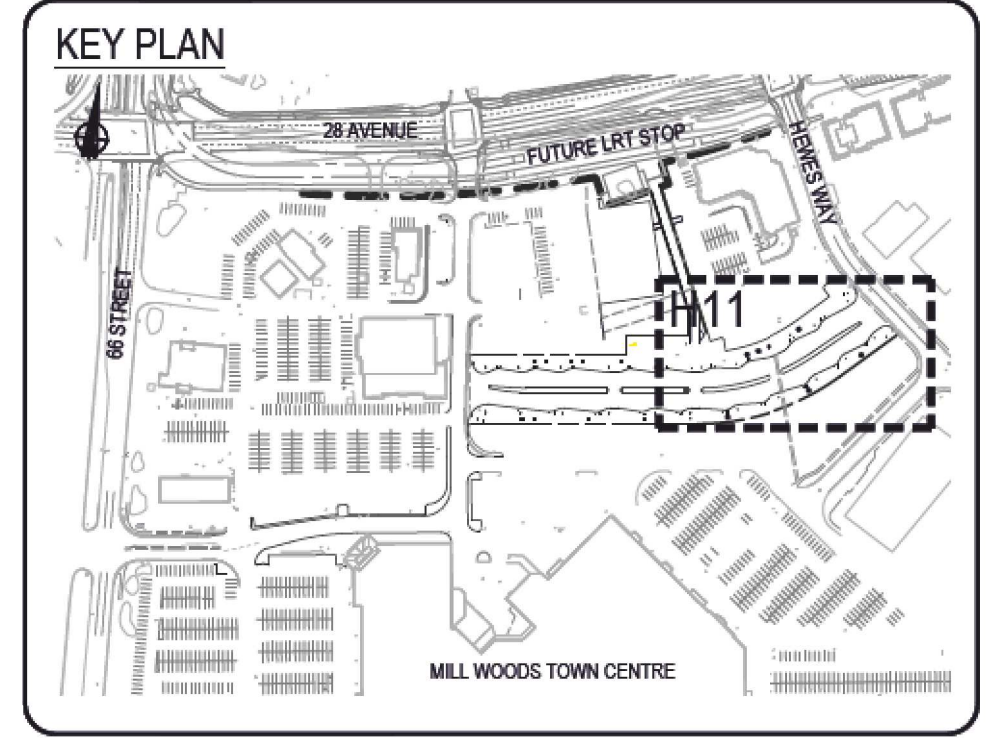
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LEGEND

- FREESTANDING BENCH. SEE ARCHITECTURAL DWG FOR DETAILS.
- PLANTER CURB & SEAT WALL WITH BENCH TOP. SEE D SERIES FOR CONCRETE DETAILS & H20 SERIES FOR BENCH TOP DETAILS.
- STRUCTURAL SOIL CELLS. SEE D SERIES FOR DETAILS.
- TREE GRATE AND FRAME. SEE D SERIES FOR DETAILS.
- POST & RAIL FENCE. SEE H40 SERIES FOR DETAILS.
- LIGHT STANDARD
- EMERGENCY PHONE



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	issue date		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:250
0 2.5 5 7.5 12.5m

drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
D. MARTIN

date
03-05-2019

consultant job no
14677

The Alberta Association of Landscape Architects
2019-05-05
Jeff Schurek

AECOM
Prime Consultant

Edmonton

prime consultant job no

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DIALOG

gpc architecture

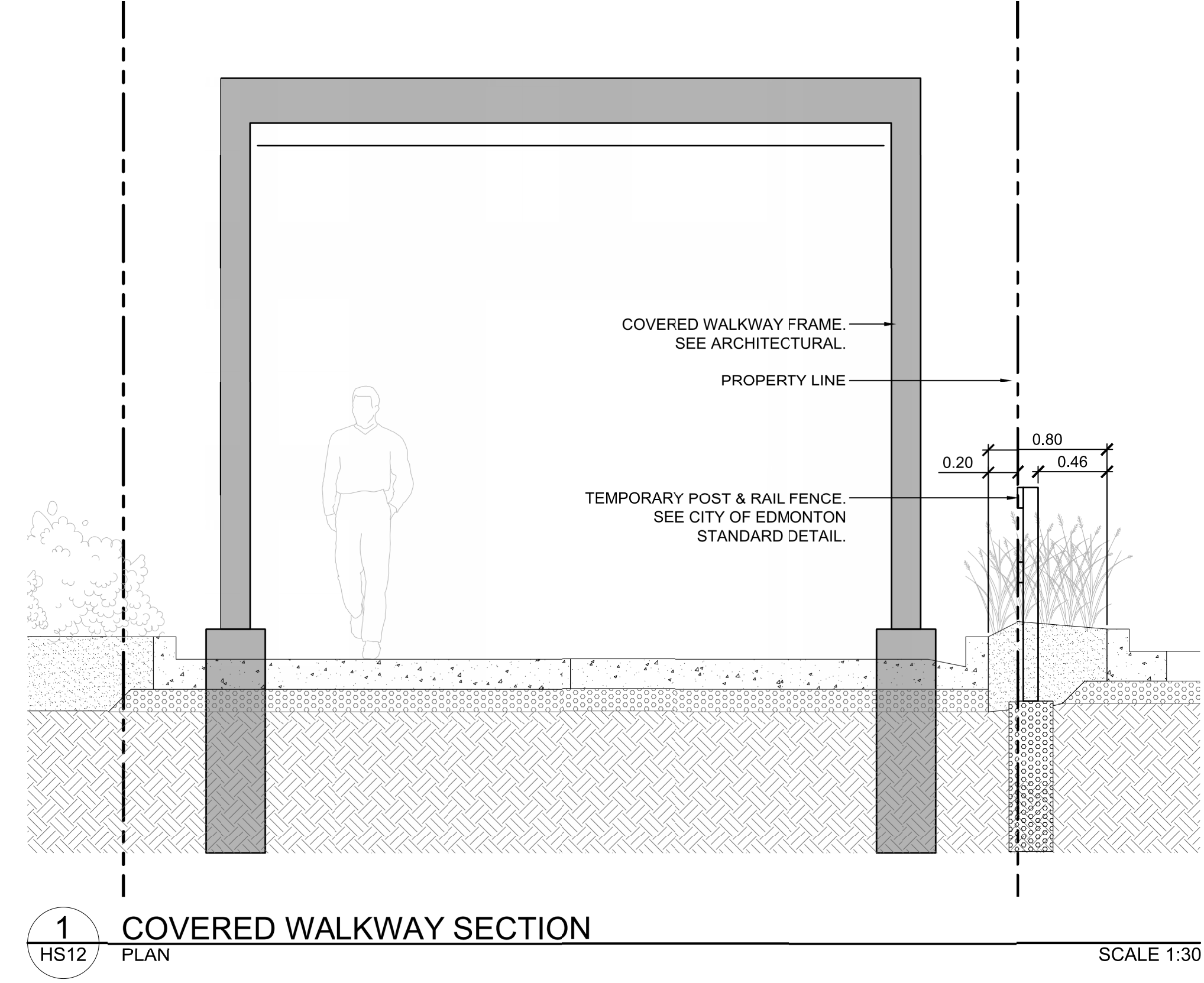
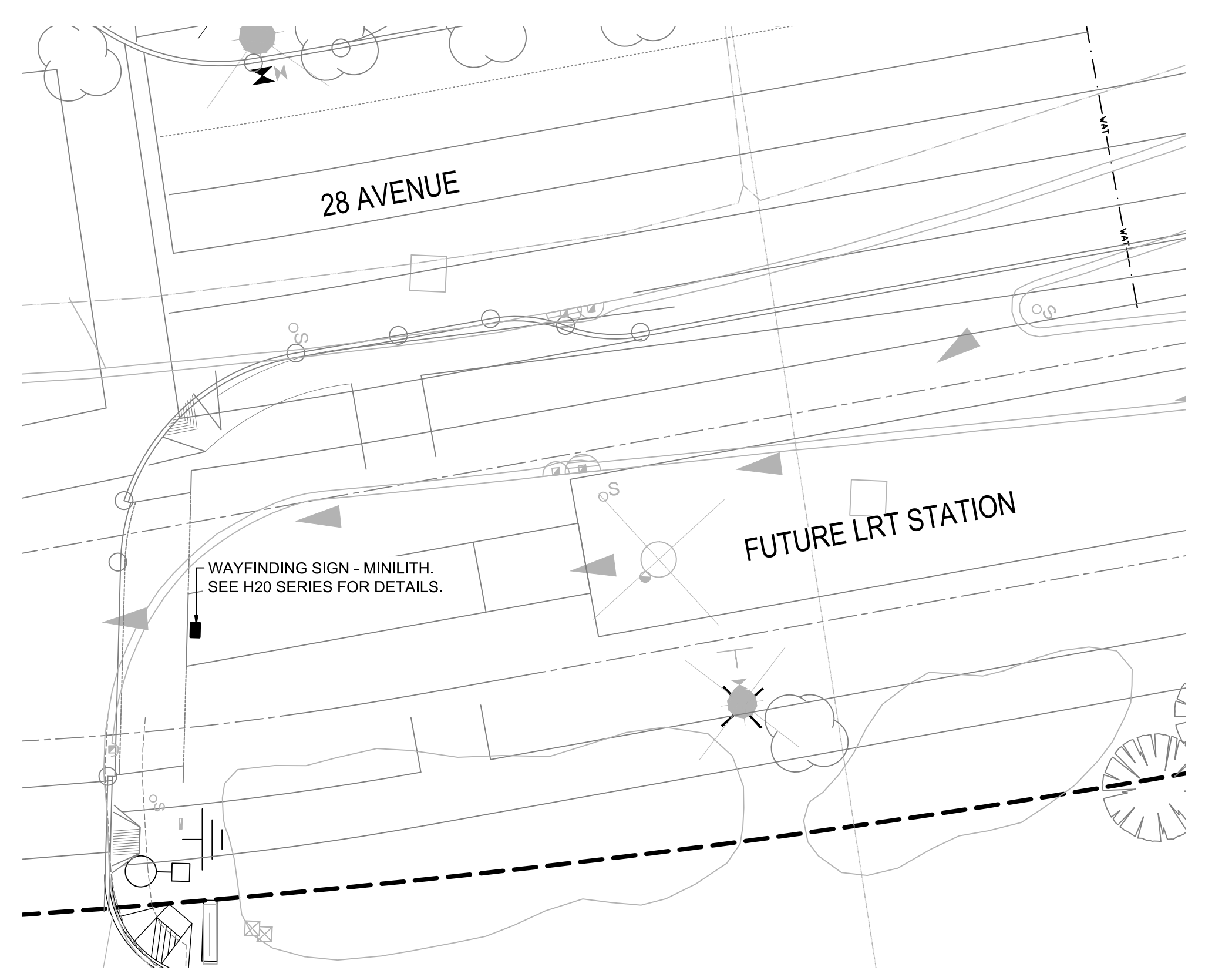
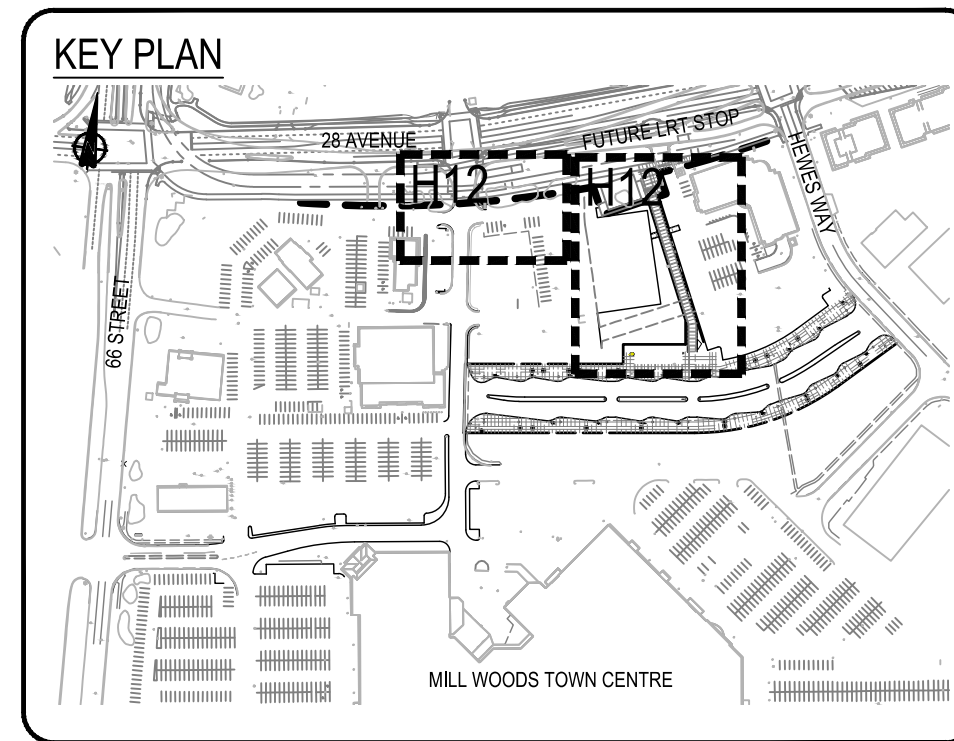
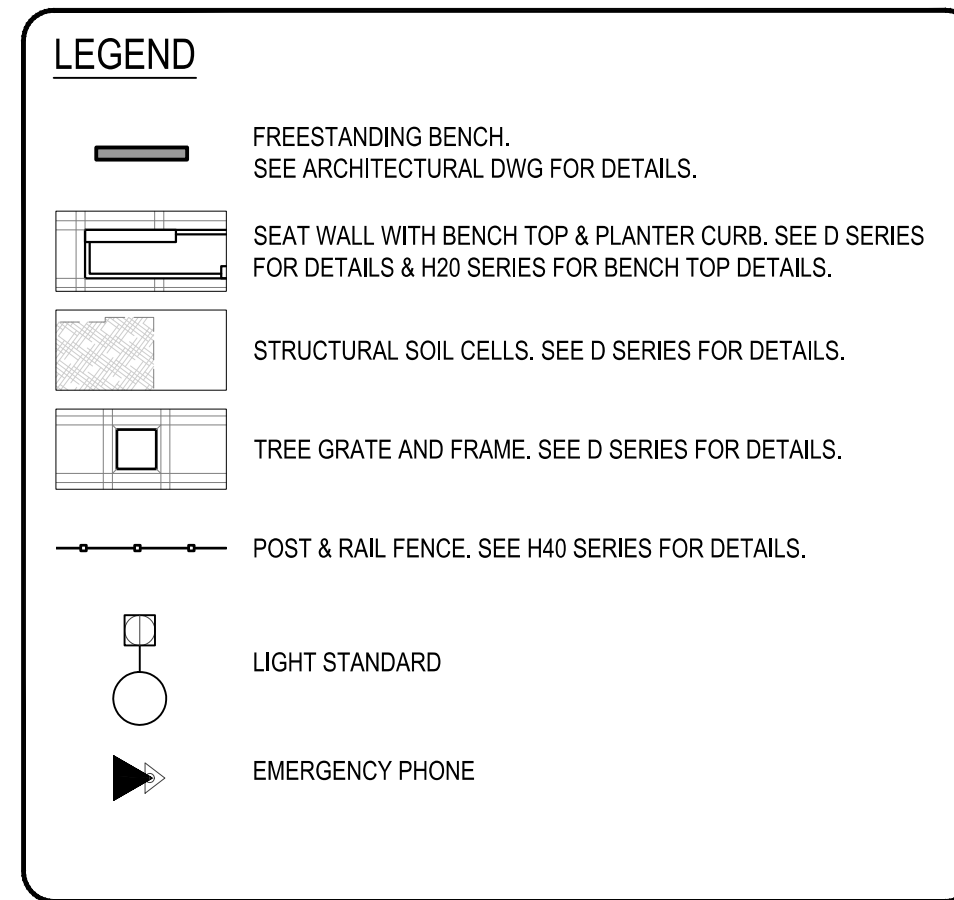
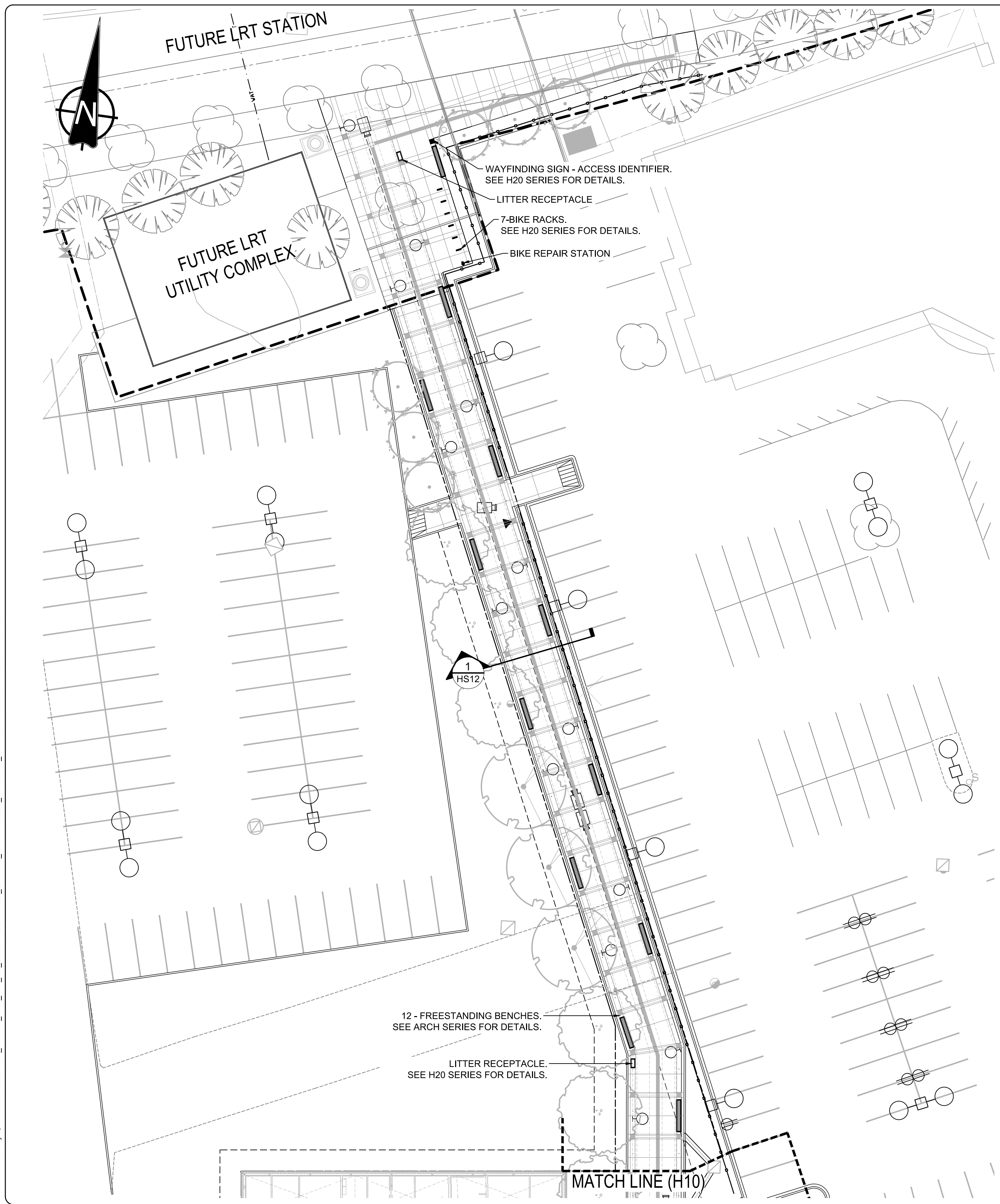
drawing title
MILL WWOODS TRANSIT CENTRE
FURNISHINGS & FENCING PLAN

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 H11

REV 0
SHT

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A1 bar scale
1:250 metric
0 2.5 5 7.5 12.5m

drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
D. MARTIN

date
03-05-2019

consultant job no
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2019-05-05
Jeff Schurek

AECOM
Prime Consultant

Edmonton

prime consultant job no

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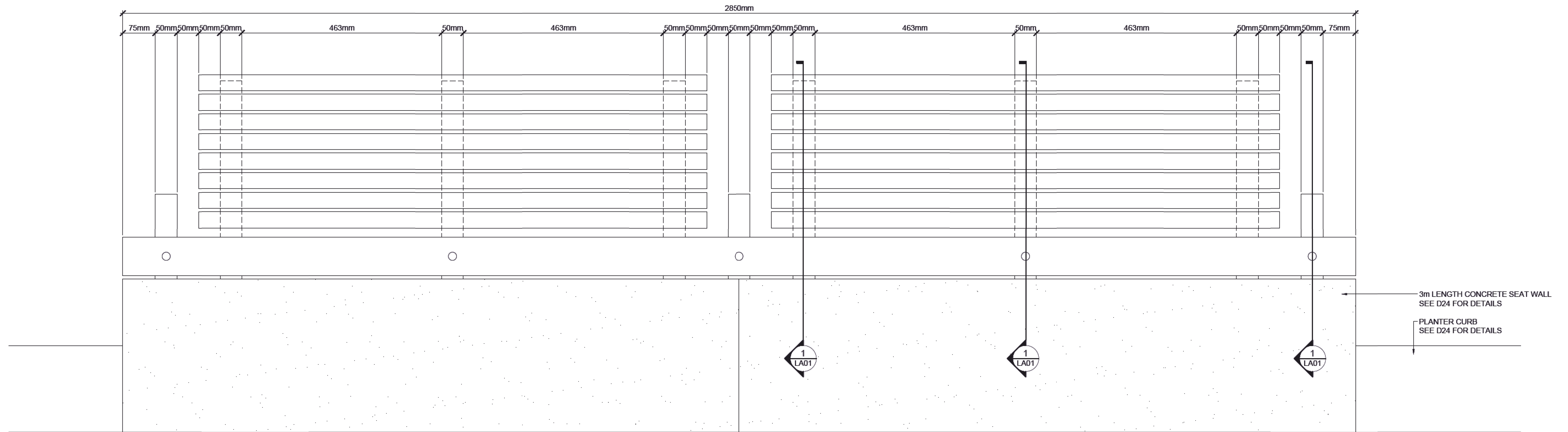
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drawing title
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FURNISHINGS & FENCING PLAN

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

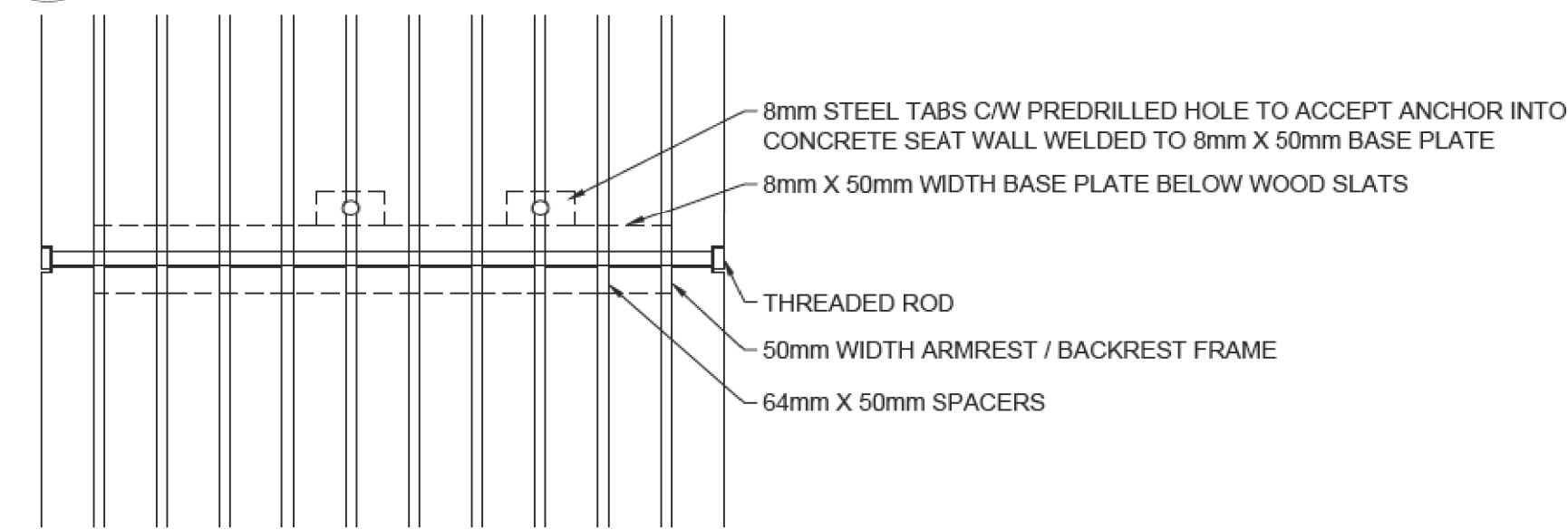
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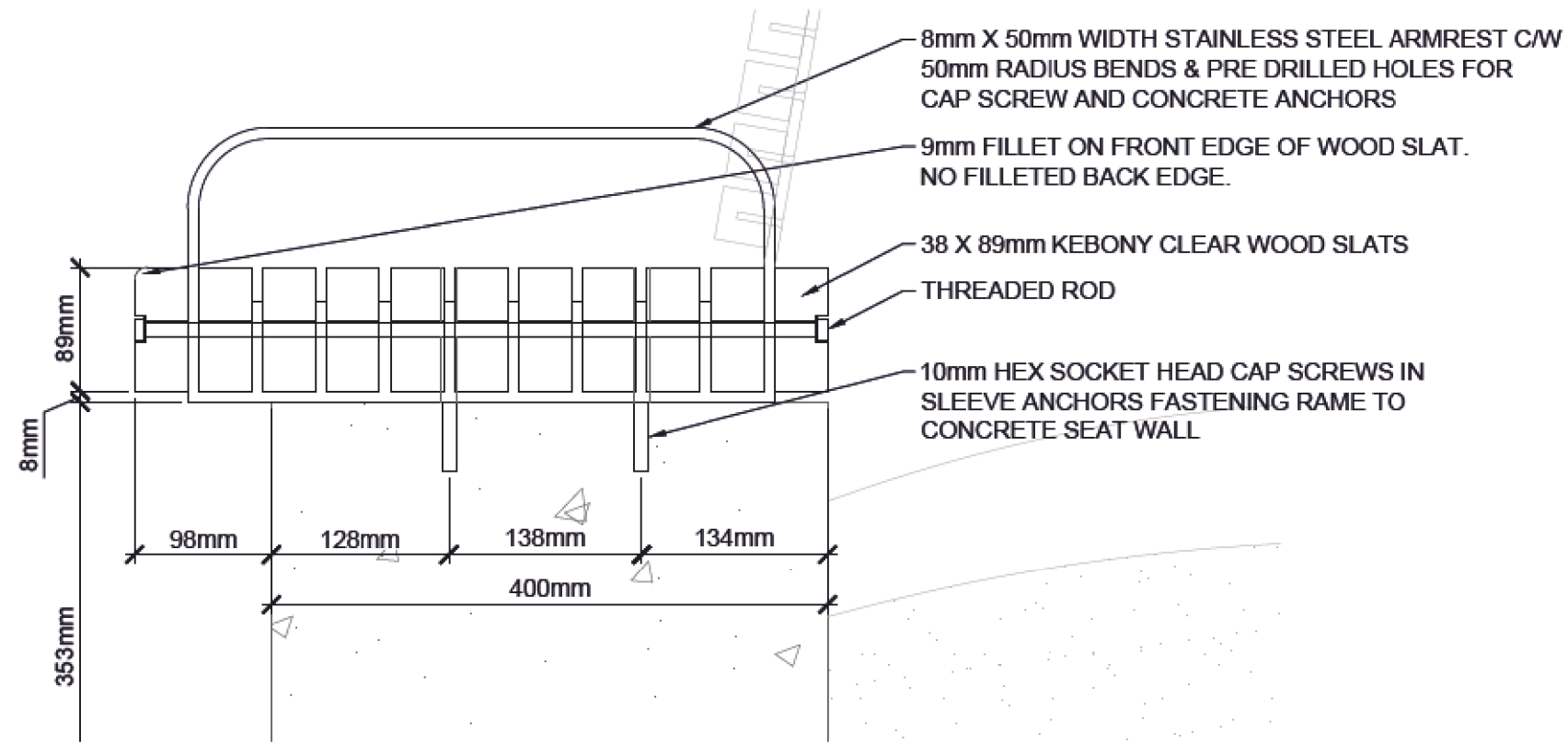
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SCALE 1:10



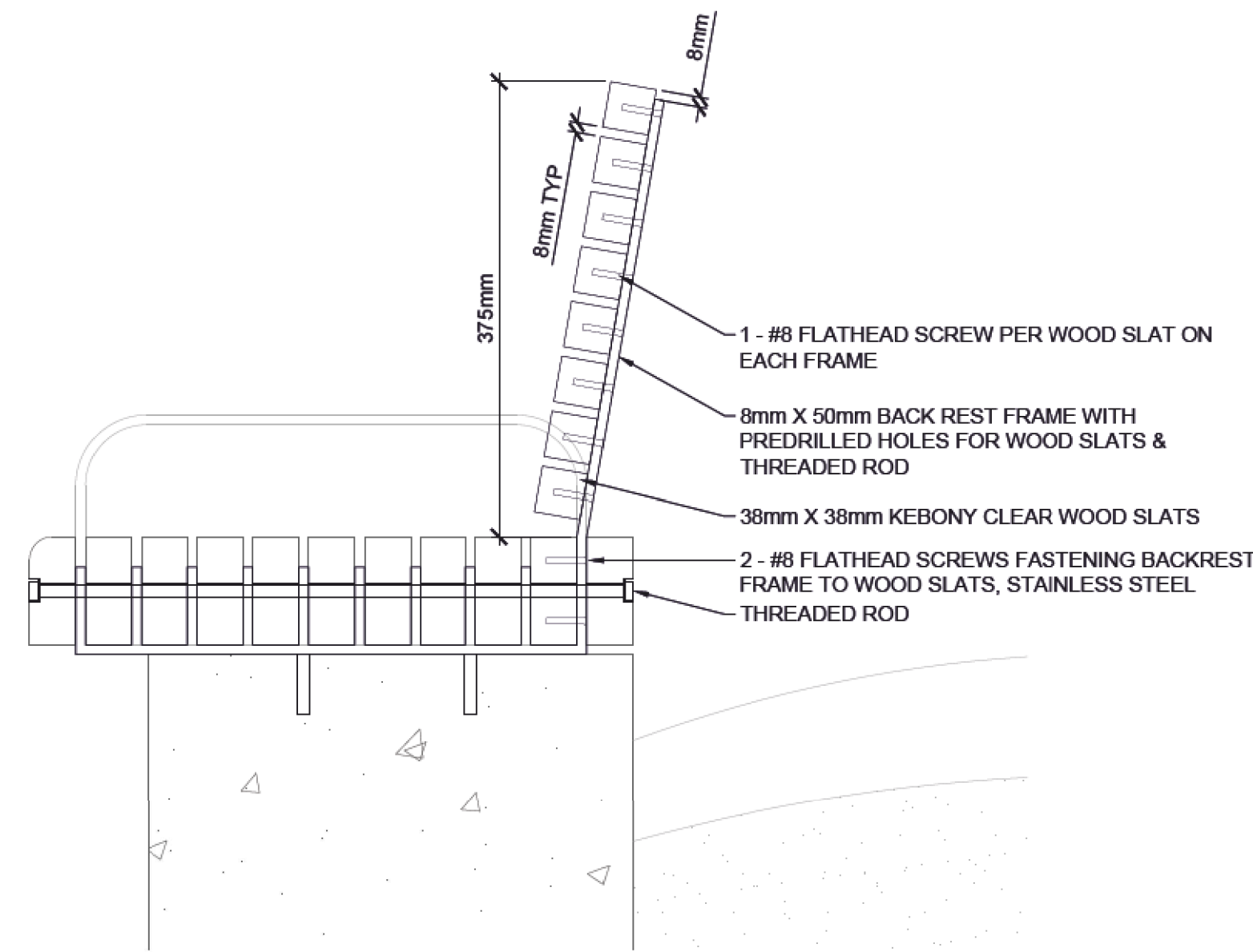
2 SEAT WALL TOP PLAN

SCALE 1:5



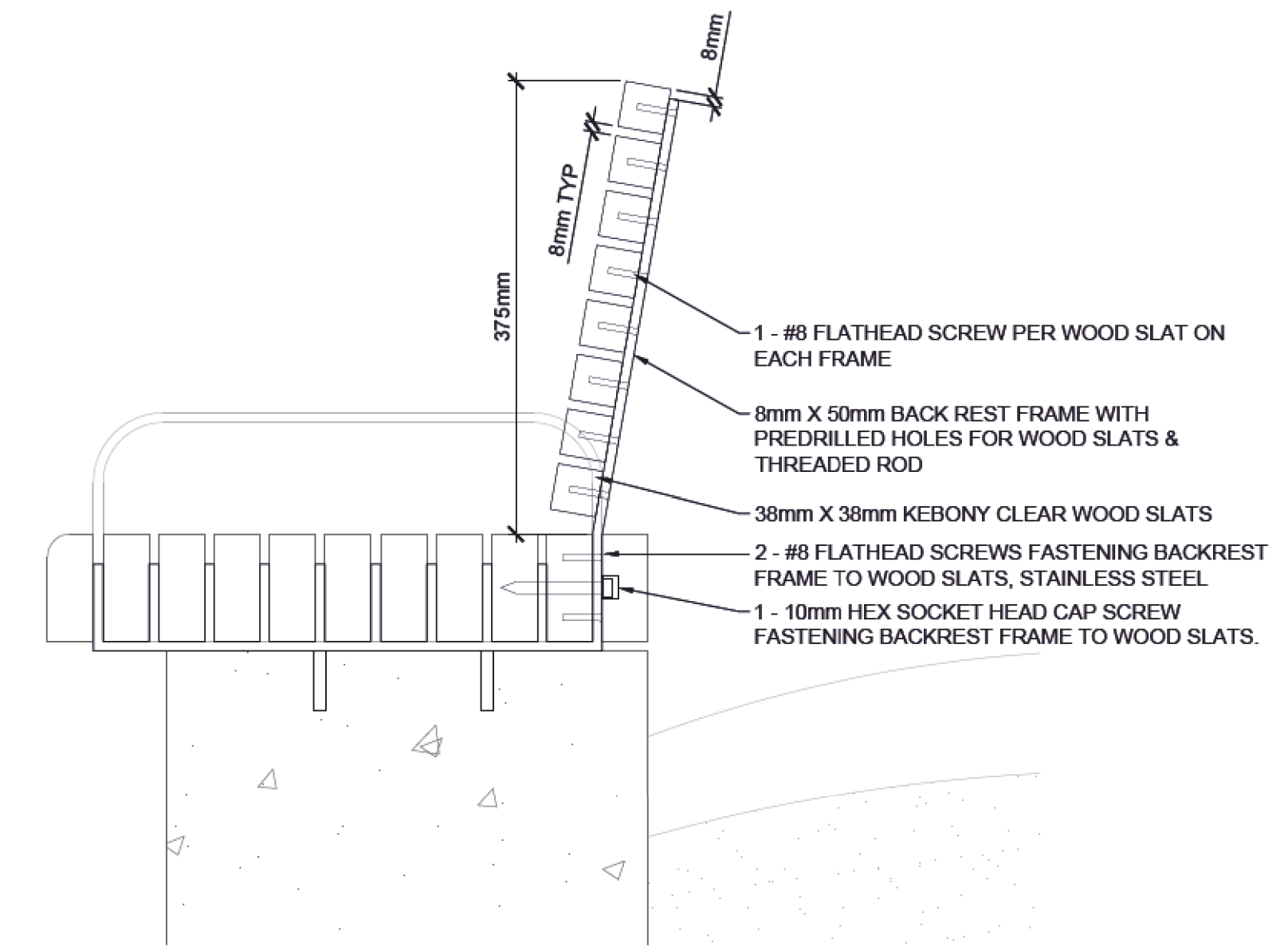
3 SEAT WALL TOP SECTION

SCALE 1:5



4 SEAT WALL TOP SECTION

SCALE 1:5



5 SEAT WALL TOP SECTION

SCALE 1:5

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	revisions		

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designed by J. SCHUREK
checked by D. MARTIN
date 03-05-2019

consultant job no 14677

The Alberta Association of Landscape Architects
2019-05-04
Jeff Schurek

consultant reviewed by B. CAMPBELL

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Prime Consultant

Edmonton

prime consultant job no

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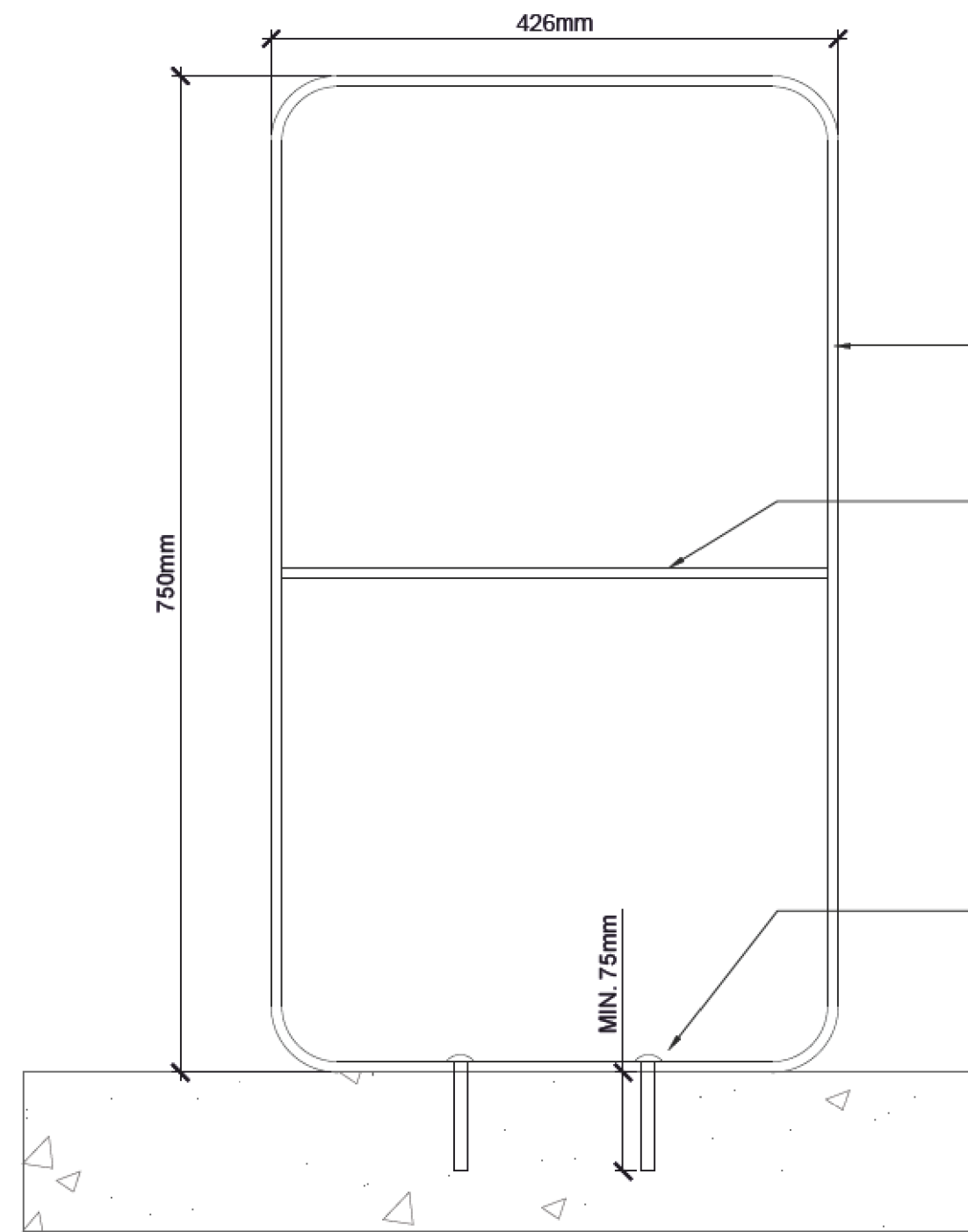
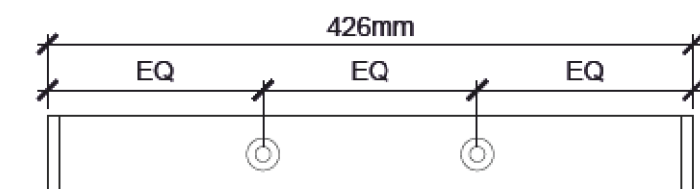
gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
FURNISHINGS DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 H20
REV 0
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8mm X 50mm WIDTH LONGITUDINALLY BRUSHED STAINLESS STEEL C/W 50mm RADIUS BENDS & PRE DRILLED HOLES FOR CAP SCREWS & CONCRETE ANCHORS

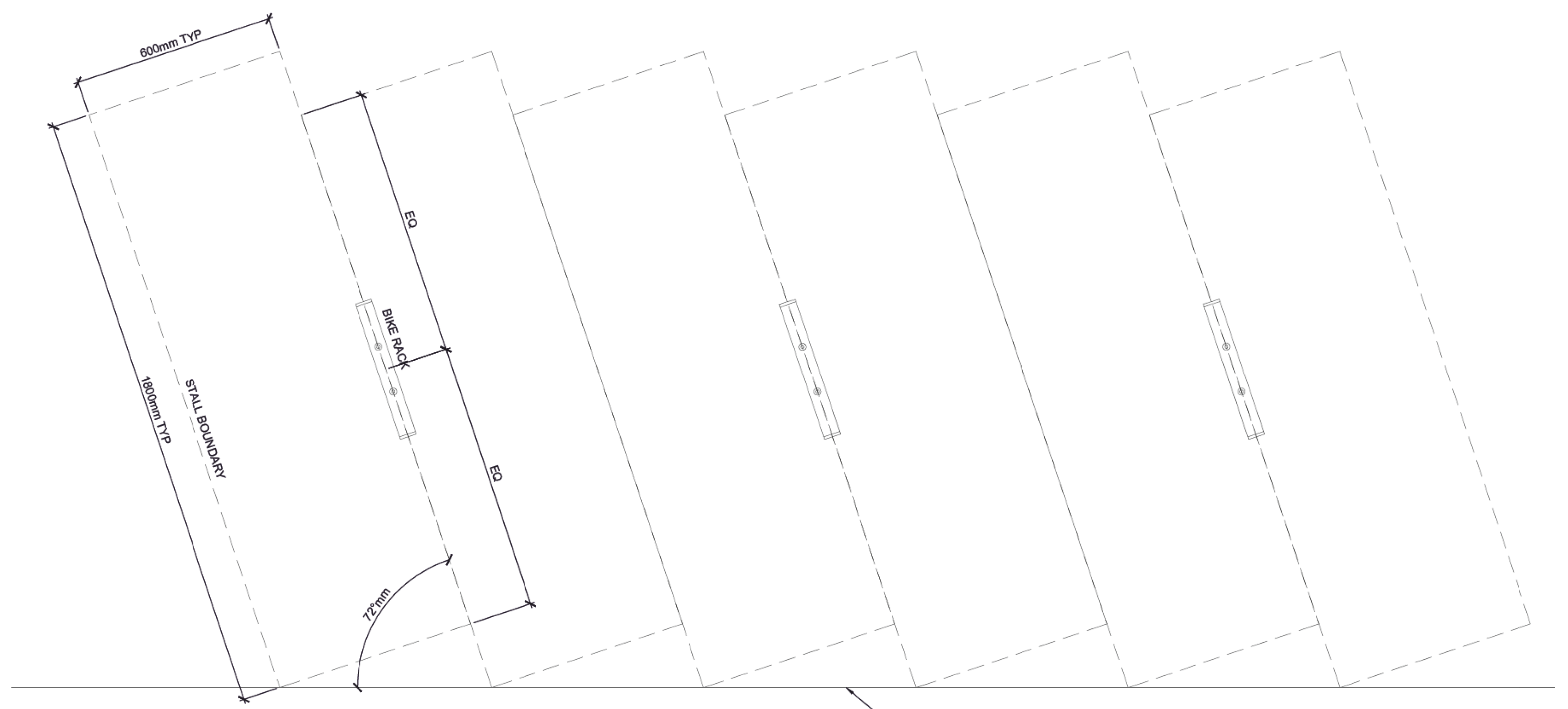
8mm X 50mm WIDTH STAINLESS STEEL CROSS BRACE WELDED ON ALL EDGES AT VERTICAL MIDPOINT OF BIKE RACK

10mm DIA TAMPER-PROOF CAP SCREW C/W LOCK WASHER IN SLEEVE ANCHORS FASTENING BIKE RACK TO CONCRETE SURFACE

MIN. 75mm

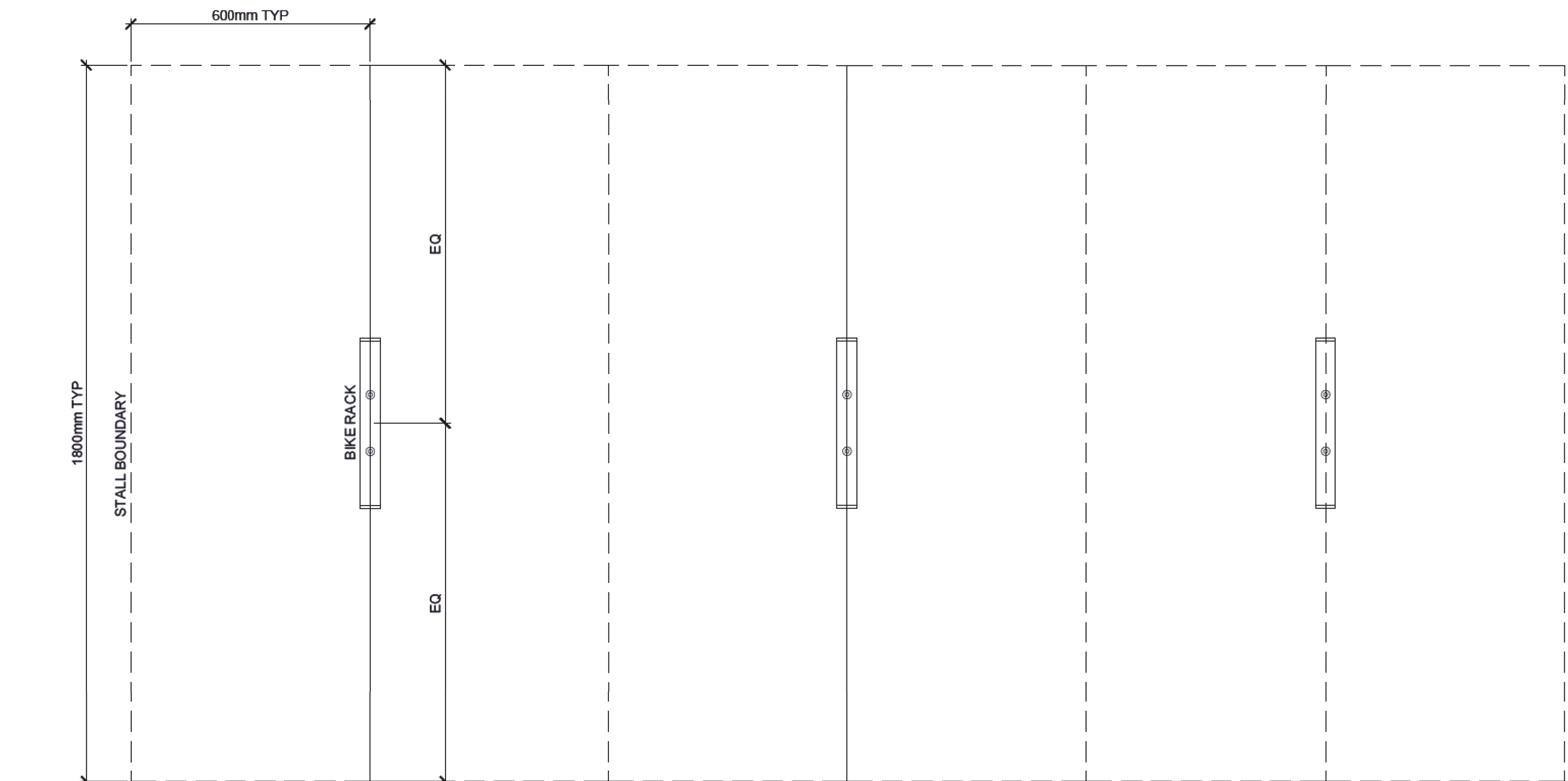
1 BIKE RACK
DETAIL

SCALE 1:5



2 BIKE RACK LAYOUT (ANGLED)
DETAIL

SCALE 1:5



3 BIKE RACK LAYOUT (STRAIGHT)
DETAIL

SCALE 1:5

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no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale

drawn by D. FRANKLIN designed by J. SCHUREK

checked by D. MARTIN date 03-05-2019

consultant job no 14677

The Alberta Association of Landscape Architects
2019-05-04
Jeff Schurek

consultant reviewed by B. CAMPBELL

AECOM
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Edmonton

prime consultant job no

HATCH

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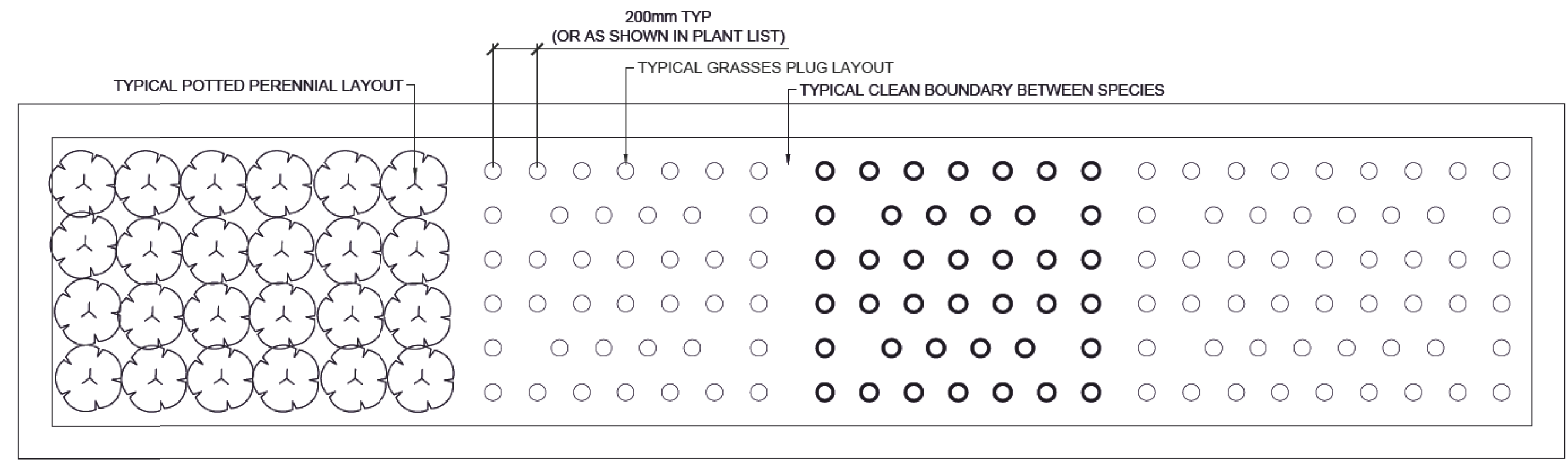
ISL Engineering and Land Services **DIALOG** **gac architecture**

drawing title
MILL WOODS TRANSIT CENTRE
FURNISHINGS DETAILS


VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 H21 REV 0 SHT

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1 TYPICAL PLANTING BED LAYOUT
SECTION SCALE 1:20

no.	description	date	checked
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no.	description	date	appd
	issue date		
no.	description	date	checked
	revisions		

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designed by J. SCHUREK
checked by D. MARTIN
date 03-05-2019

consultant job no 14677

The Alberta Association of Landscape Architects
2019-05-06
Jeff Schurek

AECOM
Prime Consultant

Edmonton

prime consultant job no

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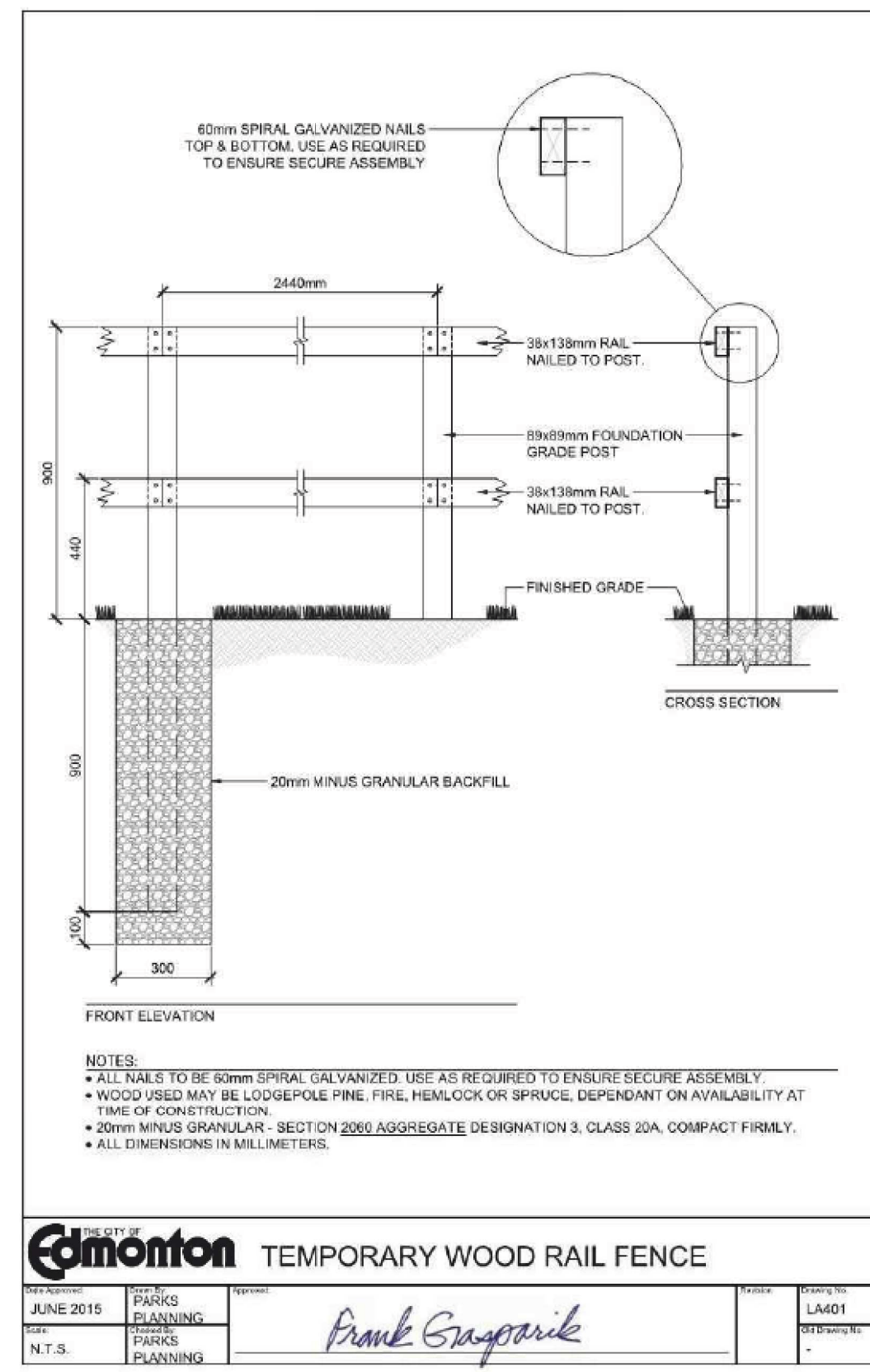
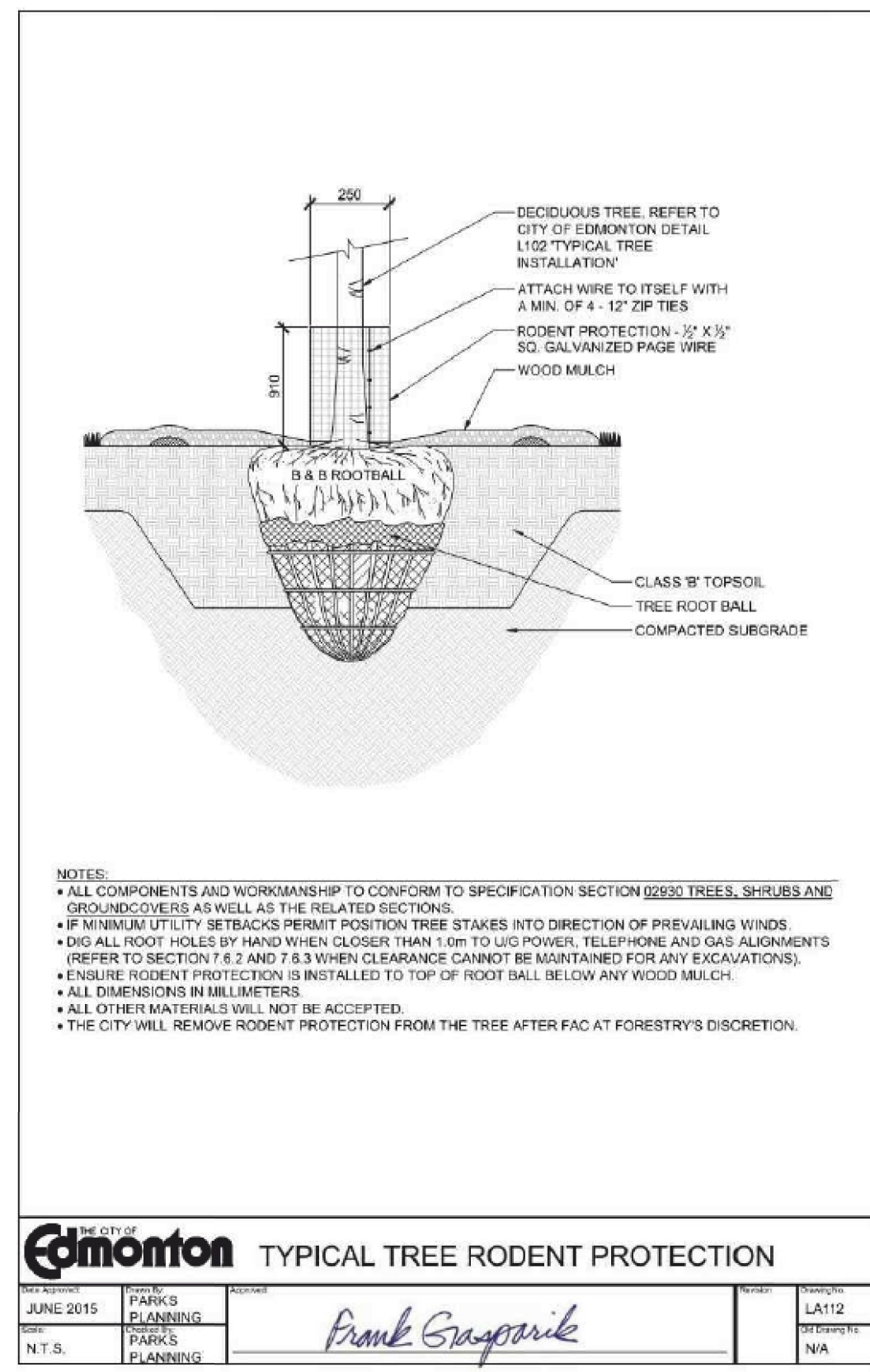
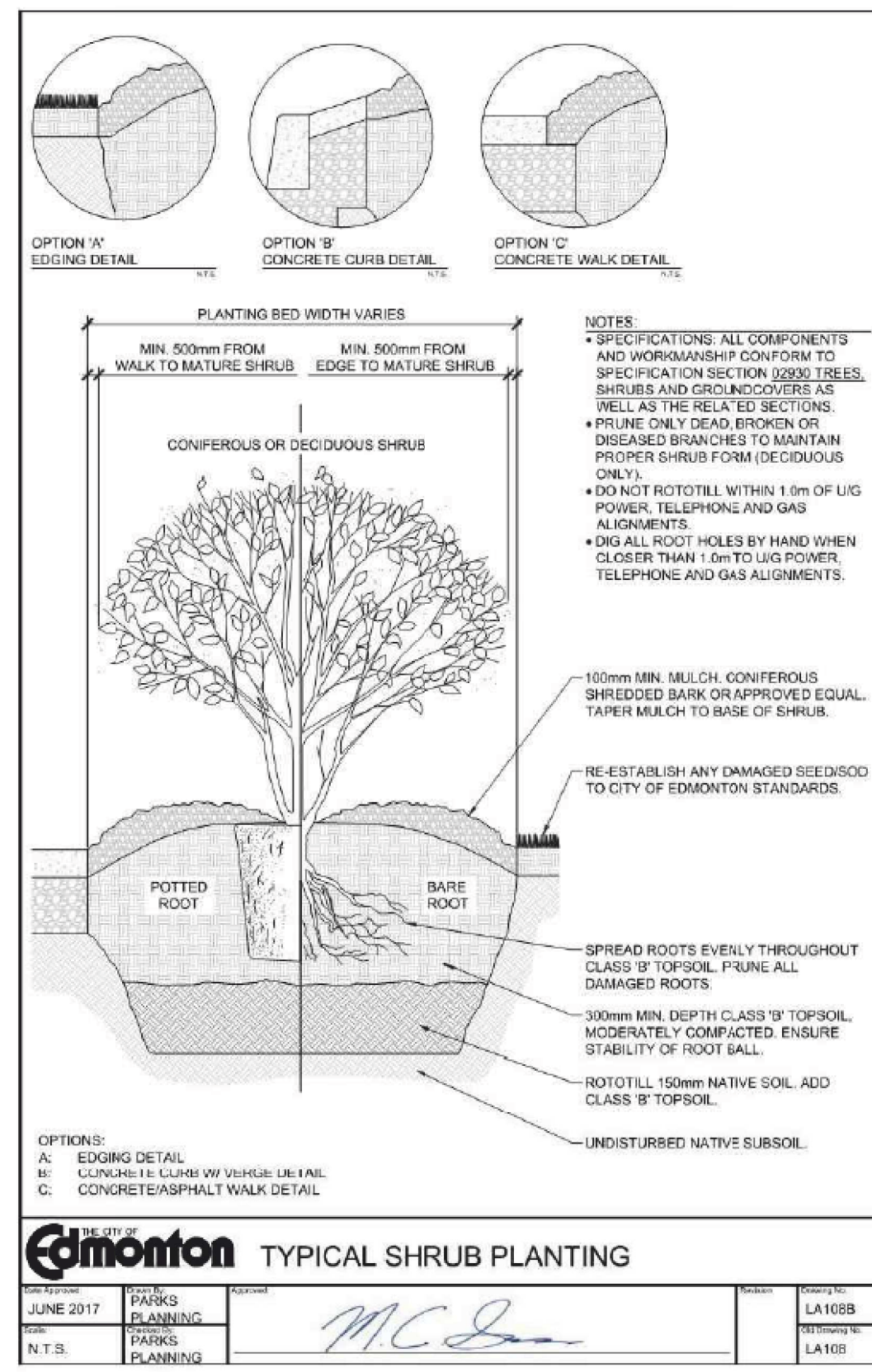
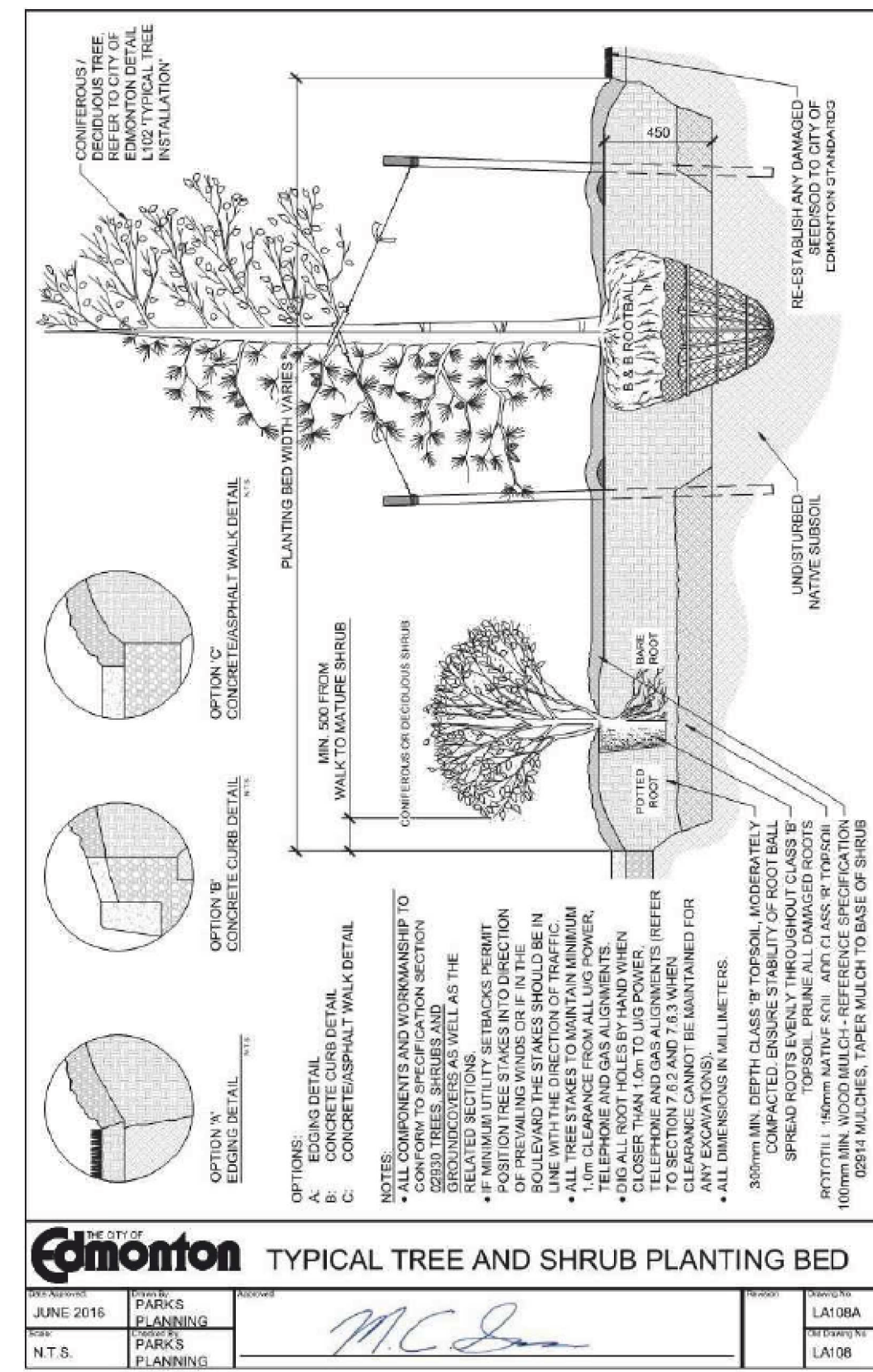
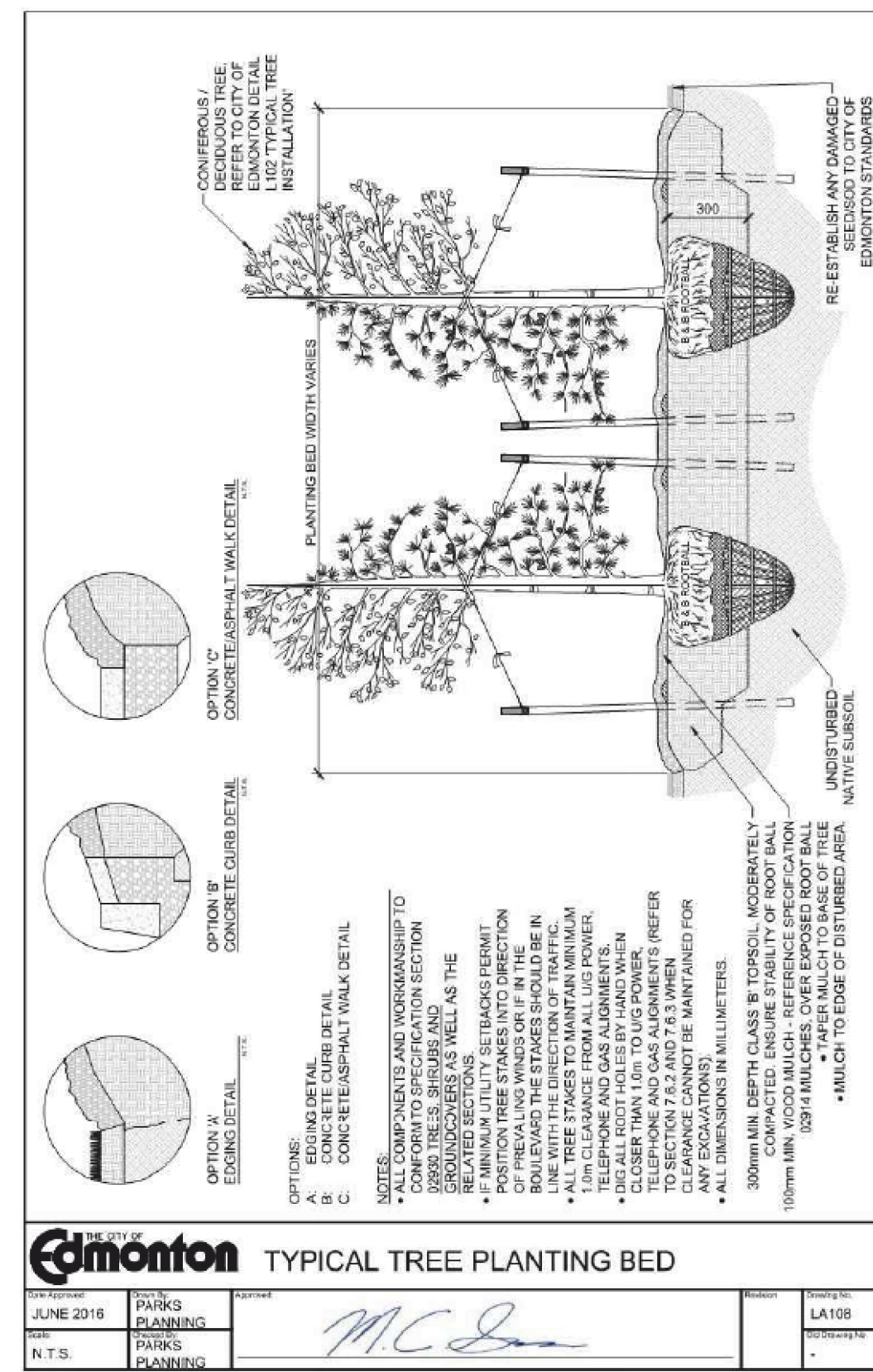
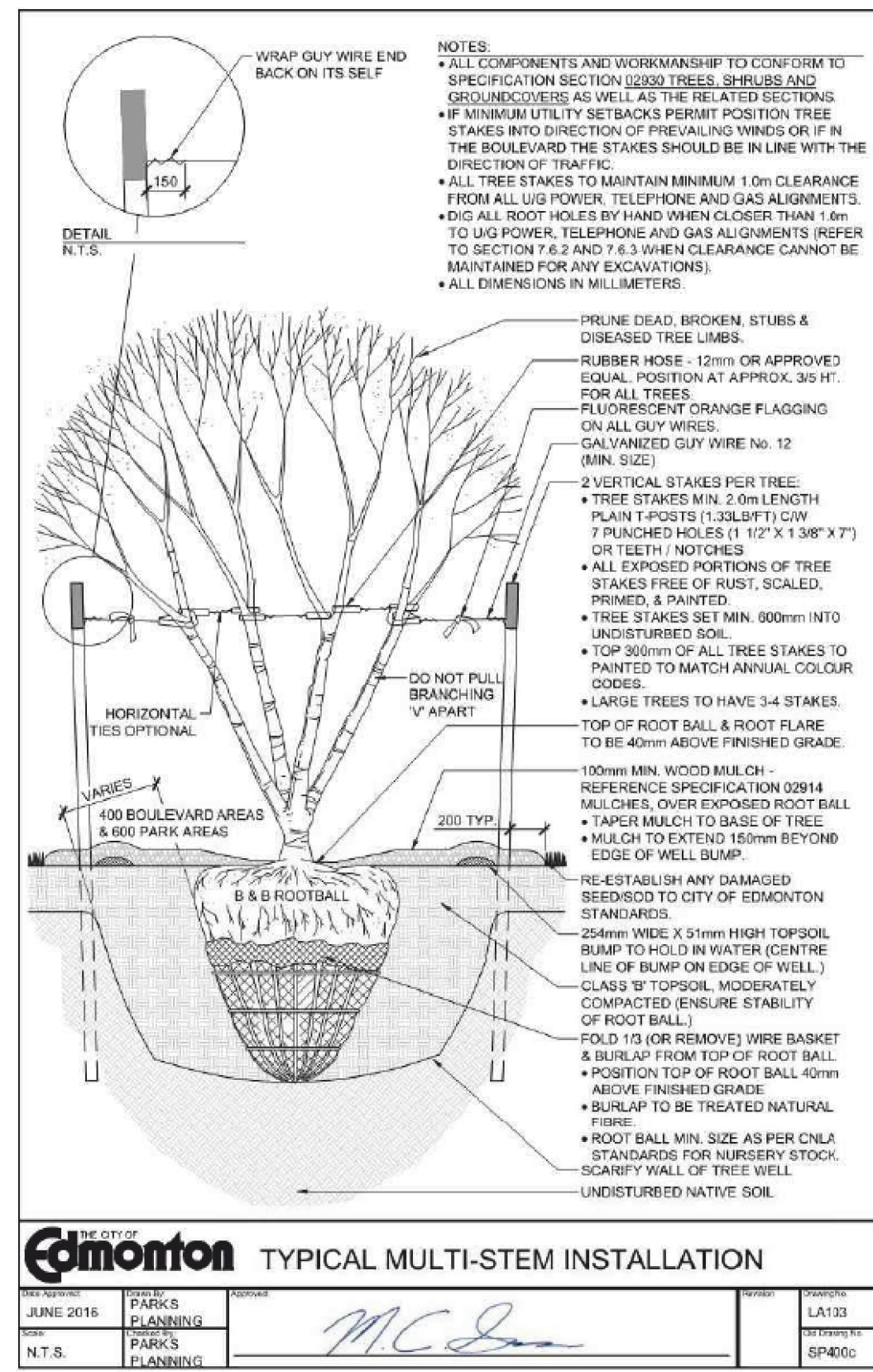
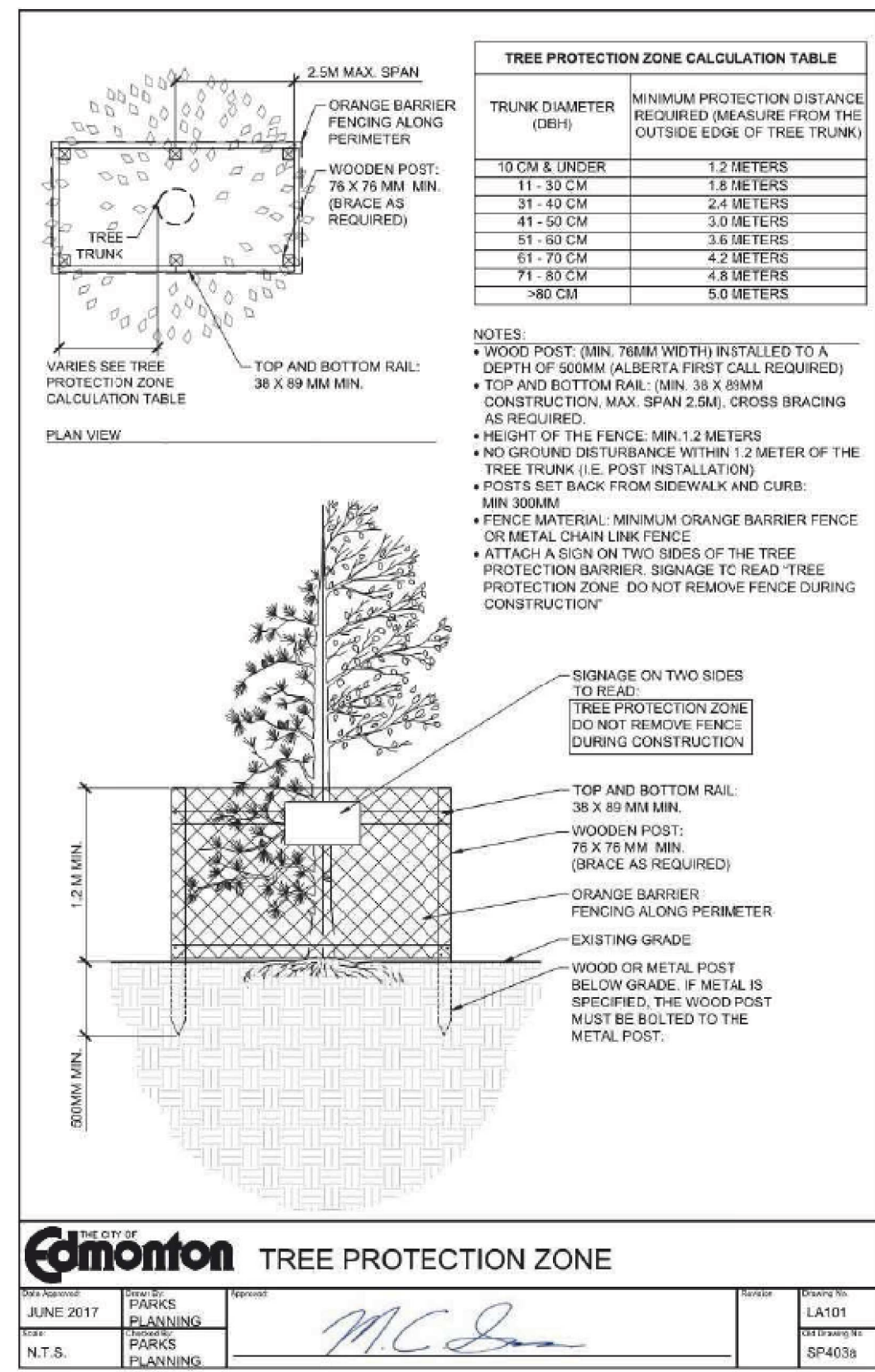
ISL Engineering and Land Services
DIALOG
gac architecture

drawing title
MILL WOODS TRANSIT CENTRE
LANDSCAPE DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 H40
REV 0
SHT

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	revisions		

		Consultant
drawn by	designed by	
D. FRANKLIN	J. SCHUREK	
checked by	date	
D. MARTIN	03-05-2019	

consultant job no	14677
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The Alberta Association of Landscape Architects

Jeff Schurek

AECOM Prime Consultant

Edmonton

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gac architecture

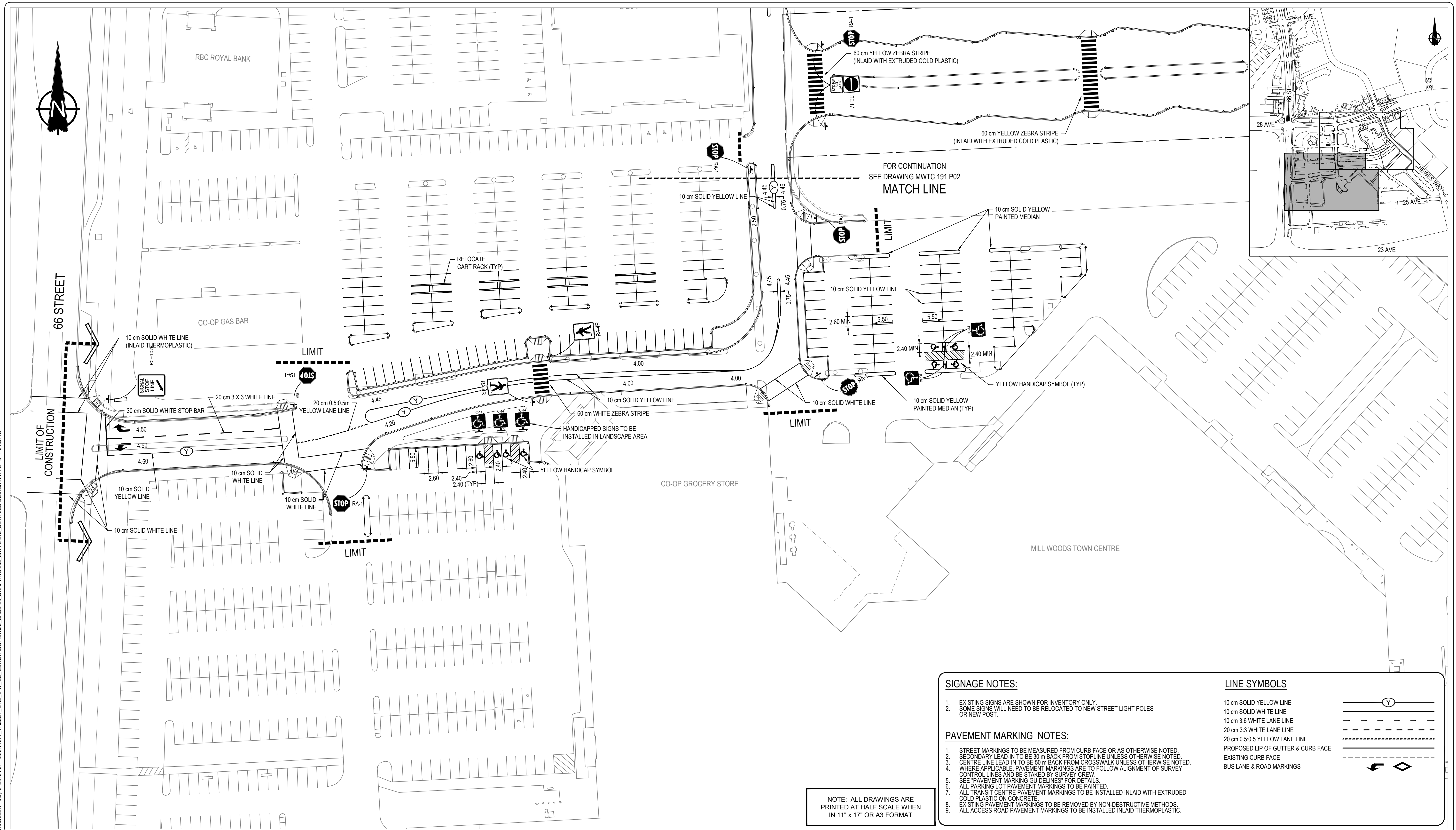
drawing title
 MILL WOODS TRANSIT CENTRE
 LANDSCAPE DETAILS

VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 H41

REV 0
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SIGNAGE NOTES:

- EXISTING SIGNS ARE SHOWN FOR INVENTORY ONLY.
- SOME SIGNS WILL NEED TO BE RELOCATED TO NEW STREET LIGHT POLES OR NEW POST.

PAVEMENT MARKING NOTES:

- STREET MARKINGS TO BE MEASURED FROM CURB FACE OR AS OTHERWISE NOTED.
- SECONDARY LEAD-IN TO BE 30 m BACK FROM STOPLINE UNLESS OTHERWISE NOTED.
- CENTRE LINE LEAD-IN TO BE 30 m BACK FROM CROSSWALK UNLESS OTHERWISE NOTED.
- WHERE APPLICABLE, PAVEMENT MARKINGS ARE TO FOLLOW ALIGNMENT OF SURVEY CONTROL LINES AND BE STAKED BY SURVEY CREW.
- SEE "PAVEMENT MARKING GUIDELINES" FOR DETAILS.
- ALL PARKING LOT PAVEMENT MARKINGS TO BE PAINTED.
- ALL TRANSIT CENTRE PAVEMENT MARKINGS TO BE INSTALLED INLAID WITH EXTRUDED COLD PLASTIC ON CONCRETE.
- EXISTING PAVEMENT MARKINGS TO BE REMOVED BY NON-DESTRUCTIVE METHODS.
- ALL ACCESS ROAD PAVEMENT MARKINGS TO BE INSTALLED INLAID THERMOPLASTIC.

LINE SYMBOLS

- 10 cm SOLID YELLOW LINE
- 10 cm SOLID WHITE LINE
- 10 cm 3.6 WHITE LANE LINE
- 20 cm 3.3 WHITE LANE LINE
- 20 cm 0.5:0.5 YELLOW LANE LINE
- PROPOSED LIP OF GUTTER & CURB FACE
- EXISTING CURB FACE
- BUS LANE & ROAD MARKINGS

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" OR A3 FORMAT

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A1 bar scale
1:500
0 5 15 25m

drawn by
R. MULLER

designed by
K. LAU

checked by
D. MARTIN

date
03-05-2019

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ISL Engineering and Land Services Ltd.
Signature
Date 2019-05-06
PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

consultant job no
14677

Professional Engineering
2019-05-06

consultant reviewed by
B. CAMPBELL

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Prime Consultant

Edmonton

prime consultant job no

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prime consultant reviewed by

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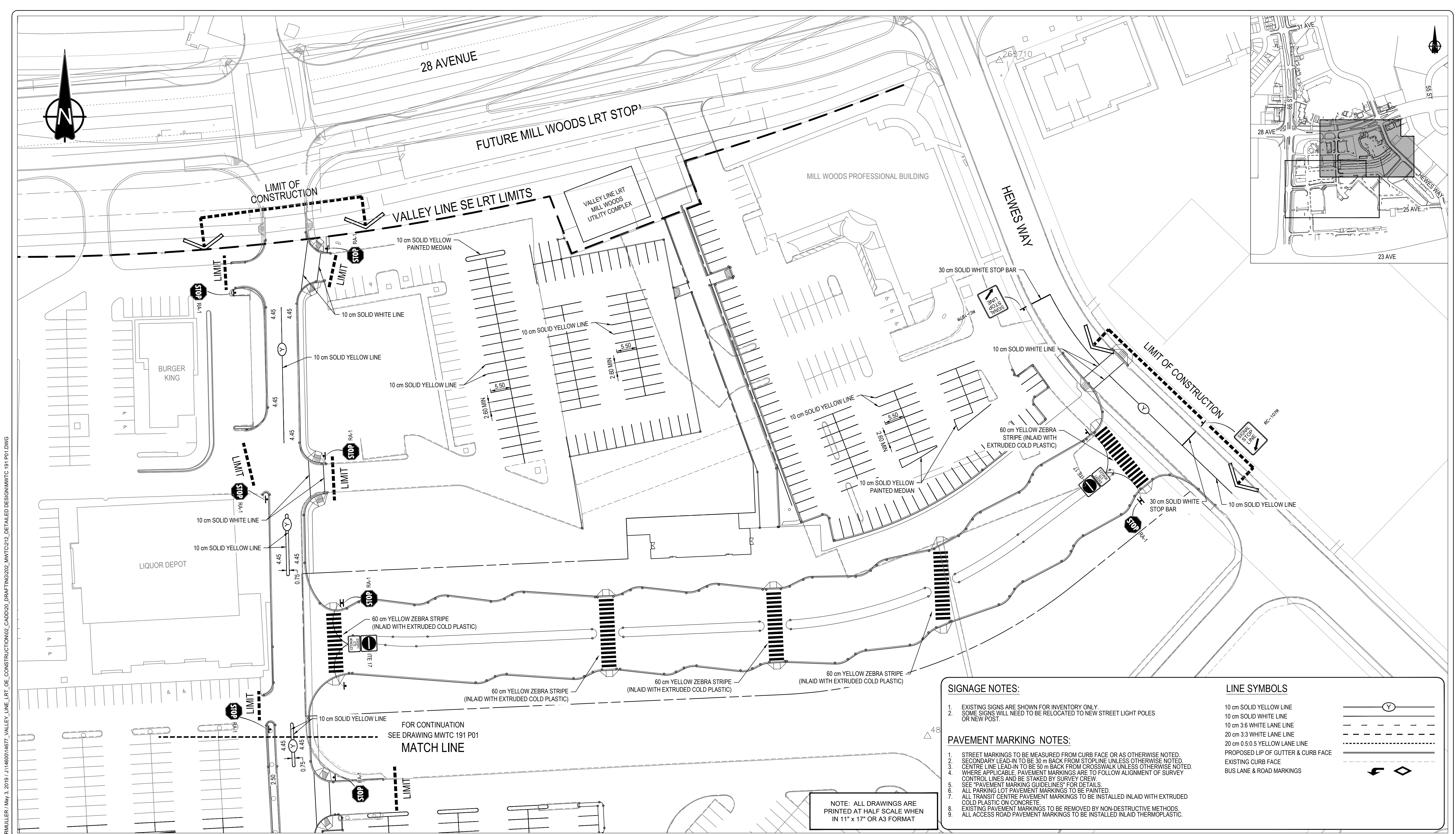
gac architecture

drawing title
MILL WOODS TRANSIT CENTRE
PAVEMENT MARKINGS & REGULATORY SIGNAGE

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 P01

REV 0
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- SIGNAGE NOTES:**
- EXISTING SIGNS ARE SHOWN FOR INVENTORY ONLY.
 - SOME SIGNS WILL NEED TO BE RELOCATED TO NEW STREET LIGHT POLES OR NEW POST.
- PAVEMENT MARKING NOTES:**
- STREET MARKINGS TO BE MEASURED FROM CURB FACE OR AS OTHERWISE NOTED.
 - SECONDARY LEAD-IN TO BE 30 m BACK FROM STOPLINE UNLESS OTHERWISE NOTED.
 - CENTRE LINE LEAD-IN TO BE 50 m BACK FROM CROSSWALK UNLESS OTHERWISE NOTED.
 - WHERE APPLICABLE, PAVEMENT MARKINGS ARE TO FOLLOW ALIGNMENT OF SURVEY CONTROL LINES AND BE STAKED BY SURVEY CREW.
 - SEE "PAVEMENT MARKING GUIDELINES" FOR DETAILS.
 - ALL PARKING LOT PAVEMENT MARKINGS TO BE PAINTED.
 - ALL TRANSIT CENTRE PAVEMENT MARKINGS TO BE INSTALLED INLAID WITH EXTRUDED COLD PLASTIC ON CONCRETE.
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- LINE SYMBOLS**
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 - 10 cm SOLID WHITE LINE
 - 10 cm 3.6 WHITE LANE LINE
 - 20 cm 3.3 WHITE LANE LINE
 - 20 cm 0.5:0.5 YELLOW LANE LINE
 - PROPOSED LIP OF GUTTER & CURB FACE
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A1 bar scale
0 5 15 25m
1:500

drawn by R. MULLER
designed by K. LAU
checked by D. MARTIN
date 03-05-2019

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Professional Engineering
2019-05-06
consultant reviewed by B. CAMPBELL

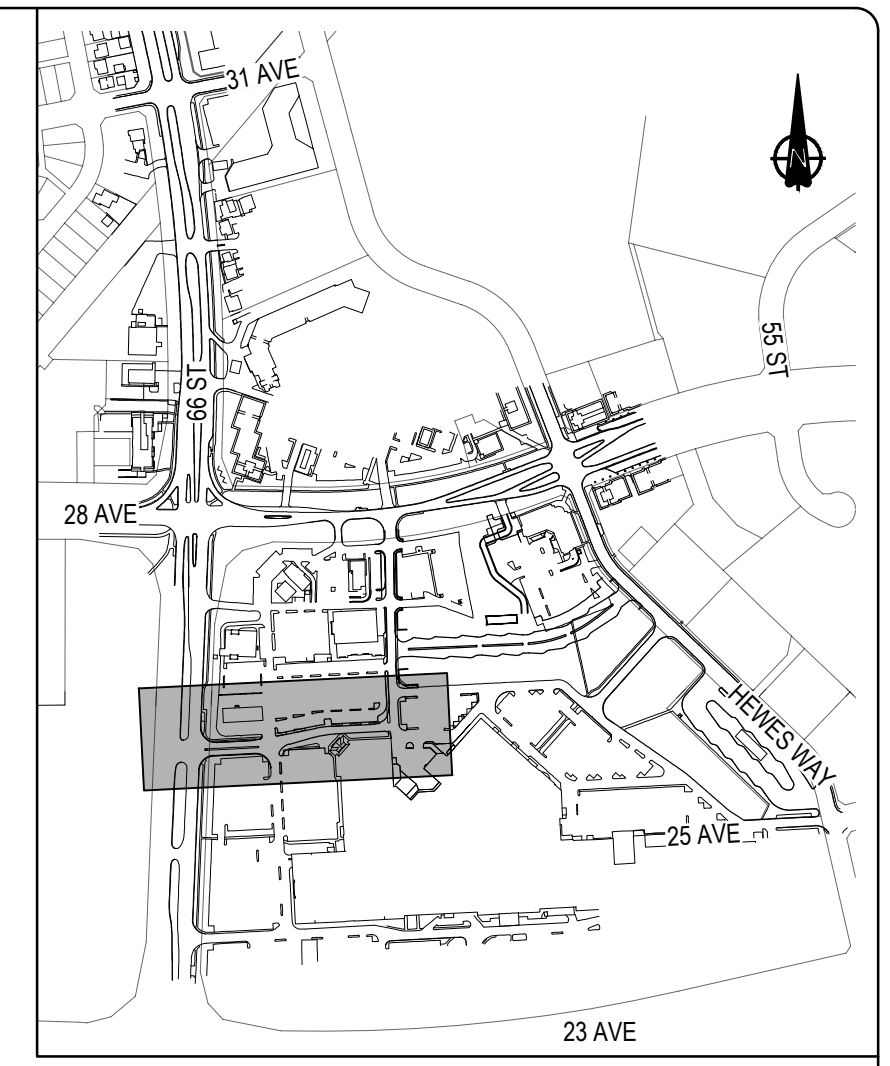
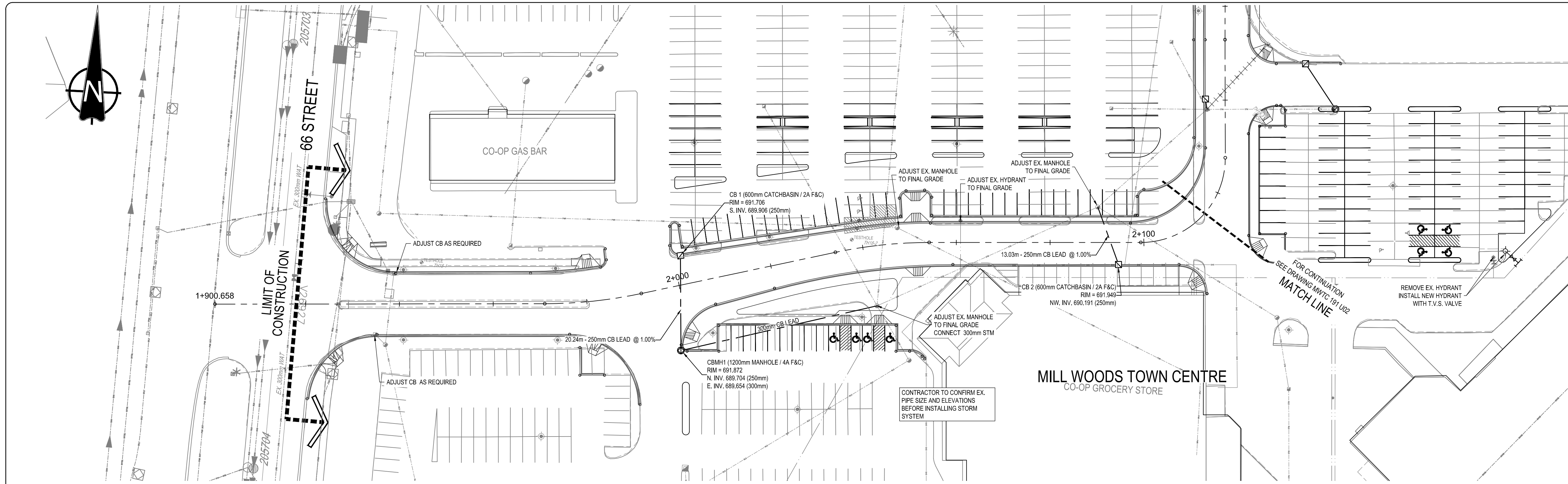
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Prime Consultant
Edmonton
prime consultant job no

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prime consultant reviewed by

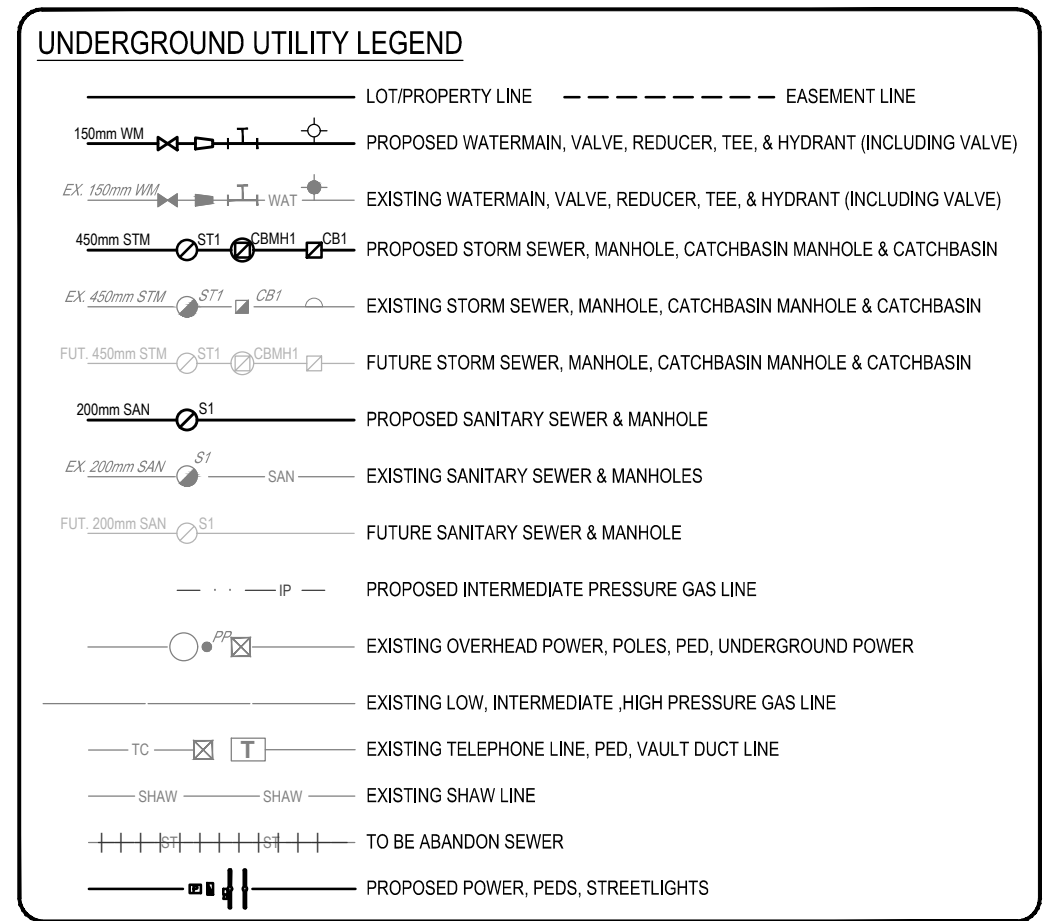
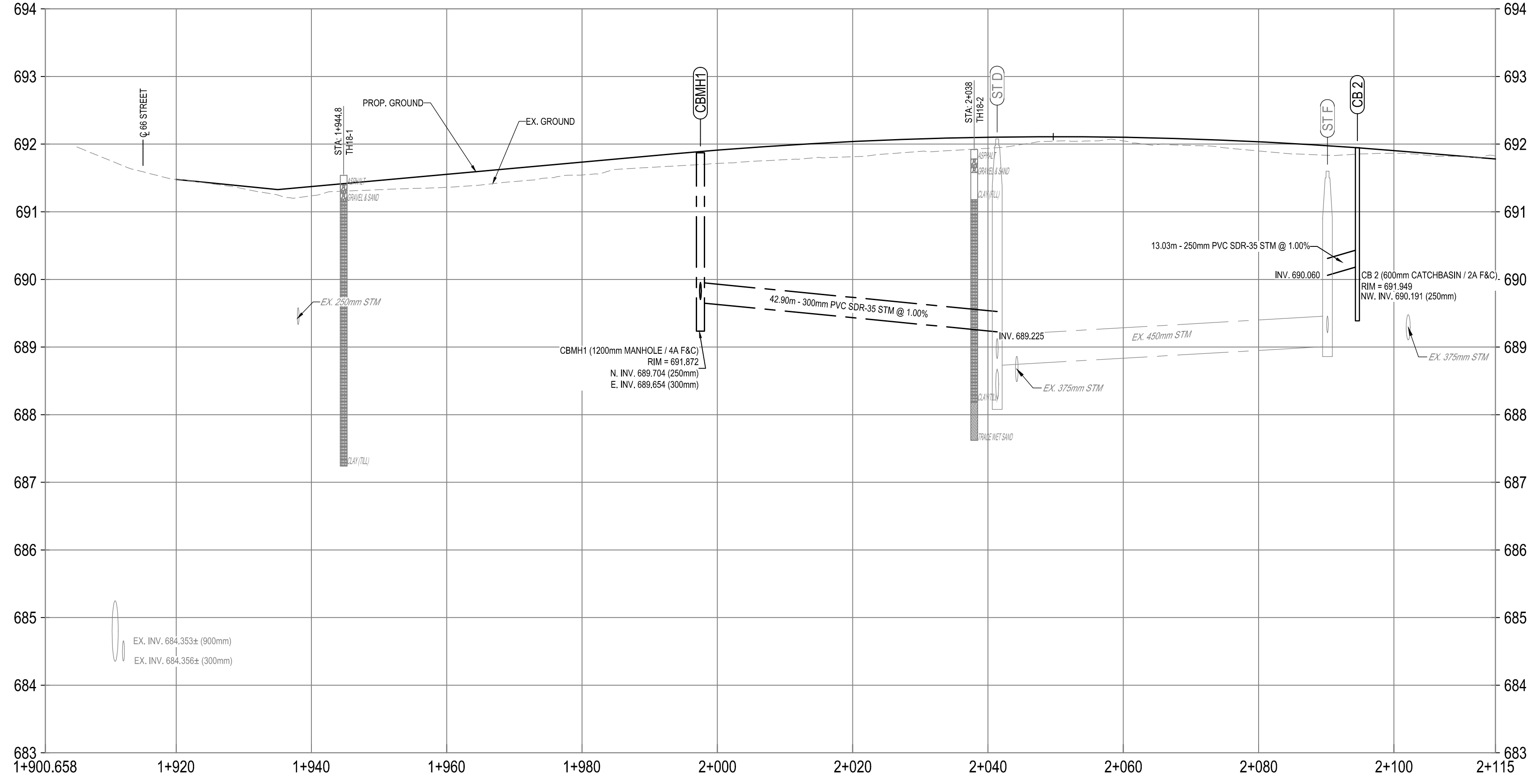
ISL Engineering and Land Services
DIALOG
gec architecture
drawing title
MILL WOODS TRANSIT CENTRE
PAVEMENT MARKINGS & REGULATORY SIGNAGE

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN
drawing no. MWTC 191 P02
REV 0
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- DRAINAGE NOTES:**
- STORM SEWER PIPE MATERIAL:
 - CONCRETE PIPE - ALL CONCRETE PIPE TO BE SULPHATE RESISTANT WITH RUBBER GASKET COMPACTED CHANG BEDDING TO BE CLASS II
 - PVC PIPE - MUST CONFORM TO CSA B137. ALL EMBEDEDMENT MATERIALS SHALL BE CLASS II COMPACTED TO TOP OF EMBEDMENT TO 95% SPD.
 - ALL C.B. LEADS TO BE 250mm DIA. AND MUST HAVE A MINIMUM SLOPE OF 1.00%, UNLESS OTHERWISE NOTED.
 - ALL UNDERGROUND CONCRETE TO BE CSA TYPE 50 SULPHATE RESISTANT PORTLAND CEMENT.
 - ALL MANHOLE FRAME AND COVERS TO BE F-80, UNLESS NOTED OTHERWISE.
 - CONNECTIONS TO EXISTING PAVEMENT SHALL BE MADE AND ALL DISTURBED AREAS SHALL BE RESTORED TO THE SATISFACTION OF THE CITY ENGINEER.
 - SLAB TOPS FOR STANDARD 1200mm MANHOLE CAN ONLY BE USED WHERE SPECIFICALLY IDENTIFIED OR AS APPROVED BY THE ENGINEER.
 - TRENCH BACKFILL MUST CONFORM TO CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS SECTION 02118.
 - SEE DWG 5002 FOR CATCHBASIN, CATCHBASIN MANHOLE AND MANHOLE PLACEMENT TABLES.



NOTE:
THE LOCATION OF THE UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL ALSO VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND EXCAVATION BEFORE CONSTRUCTION OF THE UTILITY CROSSING AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.

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Consultant

A1 bar scale
 HORZ 0 5 10 15 20m
 VERT 1:500 0 0.5 1.0 1.5 2.0m
 1:50

drawn by BRT
 designed by BRT
 checked by JK
 date 03-05-2019

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 Signature _____
 Date 2019-05-06
 PERMIT NUMBER: P-4741
 The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER
 JAMES G. CAMPBELL
 3 May 2019

AECOM
Prime Consultant

Edmonton

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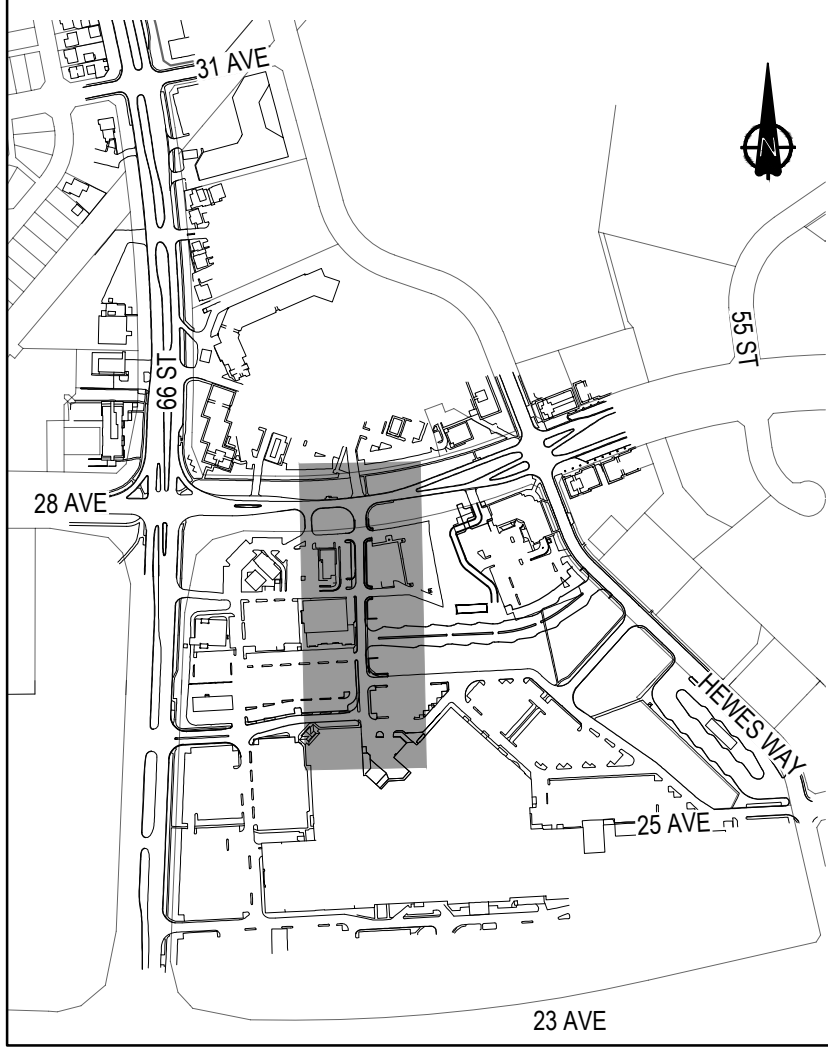
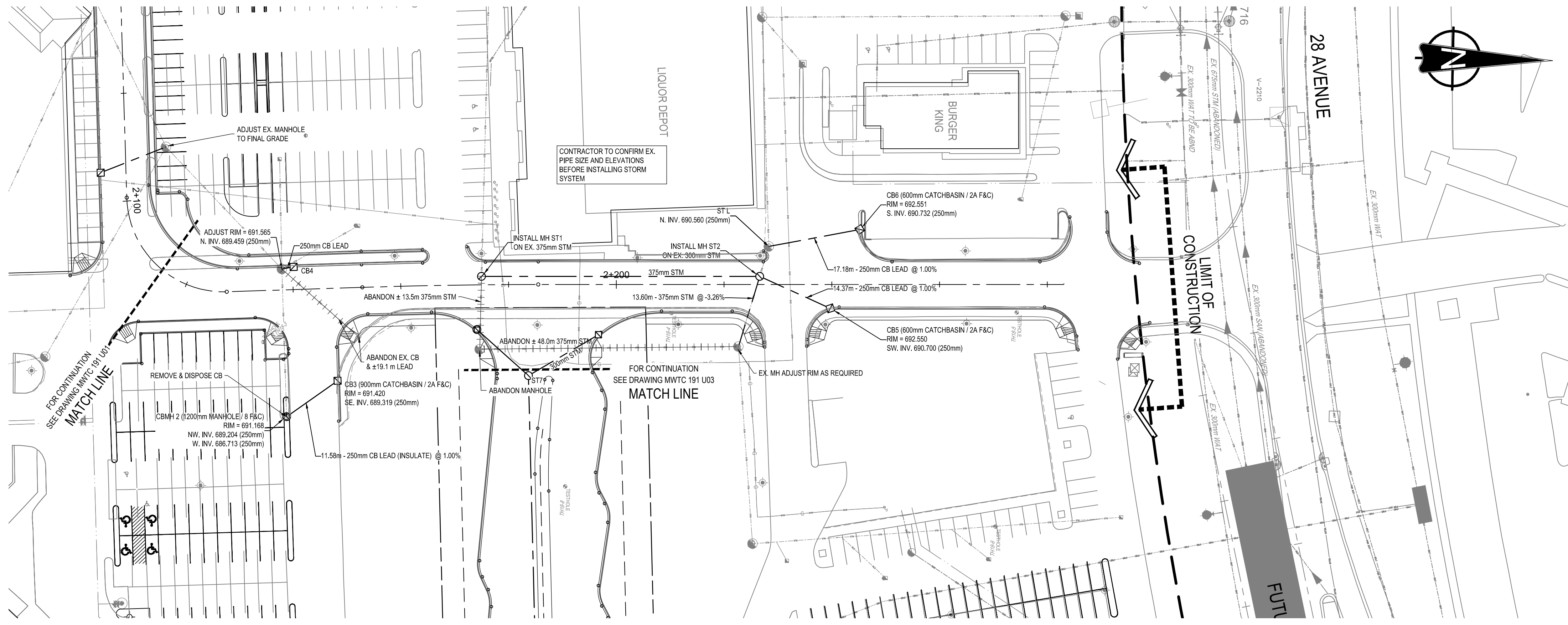
gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
 66 STREET & 28 AVENUE
 UTILITY PLAN / PROFILE

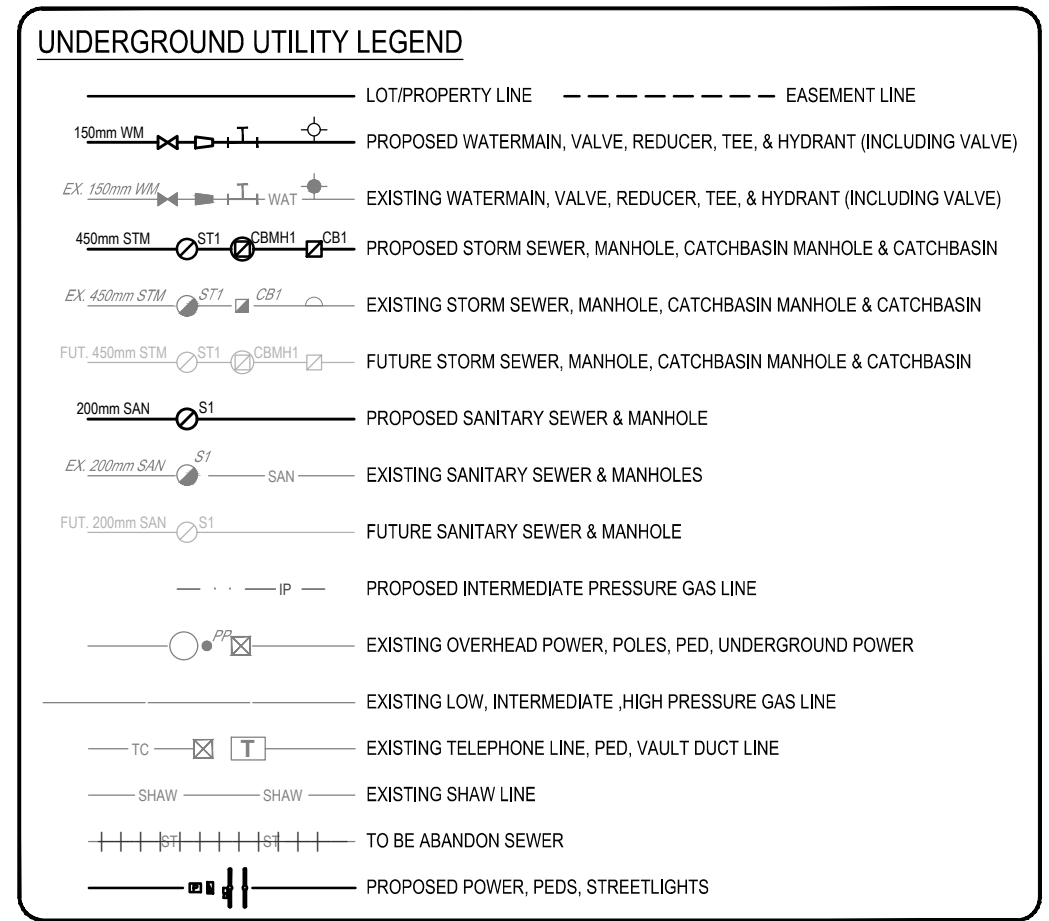
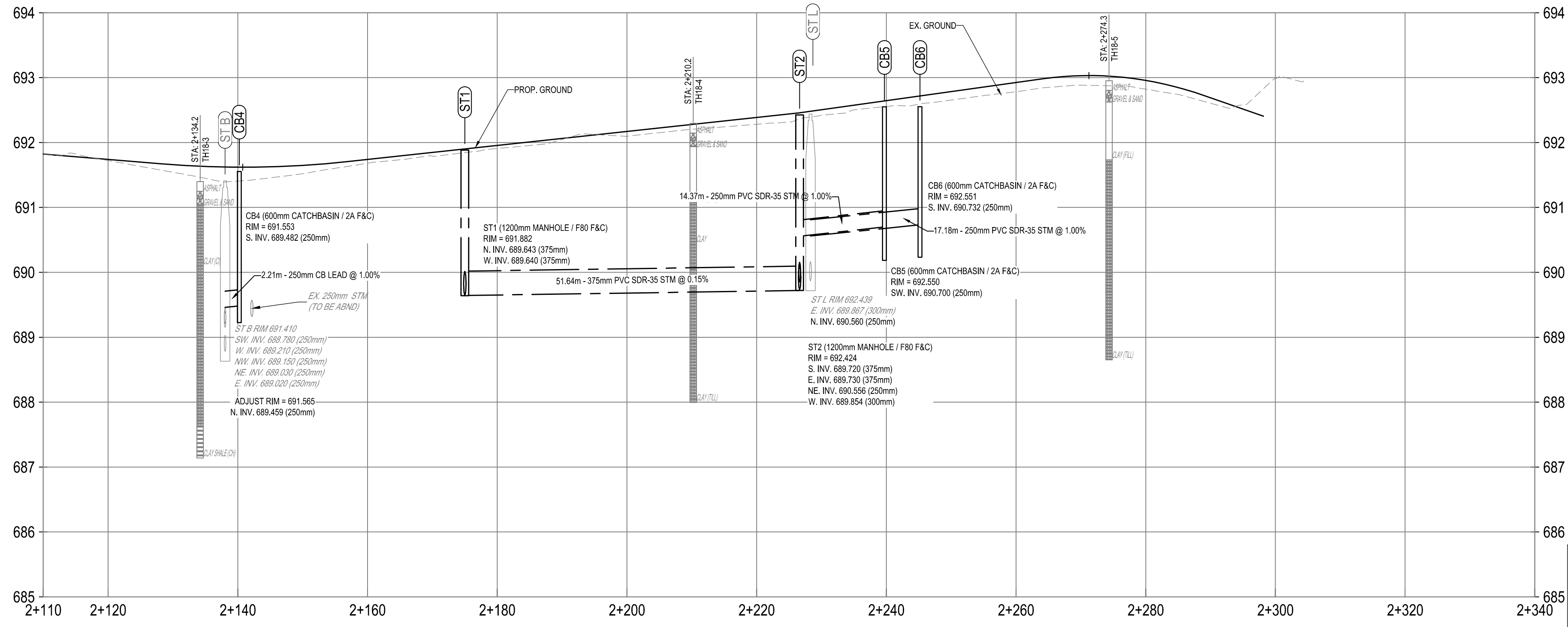
VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 U01** REV 0
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- DRAINAGE NOTES:**
- STORM SEWER PIPE MATERIAL:
 - CONCRETE PIPE - ALL CONCRETE PIPE TO BE SULPHATE RESISTANT WITH RUBBER GASKET CONFINED JOINTING. BEDDING TO BE CLASS II.
 - PVC PIPE - MUST CONFORM TO CSA B138.4. ALL EMBEDMENT MATERIALS SHALL BE CLASS II COMPACTED TO TOP OF EMBEDMENT TO 95% SPD.
 - ALL C.B. LEADS TO BE 250mm DIA. AND MUST HAVE A MINIMUM SLOPE OF 1.00%, UNLESS OTHERWISE NOTED.
 - ALL UNDERGROUND CONCRETE TO BE CSA TYPE 50 SULPHATE RESISTANT PORTLAND CEMENT.
 - ALL MANHOLE FRAME AND COVERS TO BE F40 UNLESS NOTED OTHERWISE.
 - CONNECTIONS TO EXISTING PAVEMENT SHALL BE MADE AND ALL DISTURBED AREAS SHALL BE RESTORED TO THE SATISFACTION OF THE CITY ENGINEER.
 - SLAB TOPS FOR STANDARD 1200mm MANHOLE CAN ONLY BE USED WHERE SPECIALLY IDENTIFIED OR AS APPROVED BY THE ENGINEER.
 - ALL CATCH BASIN MANHOLE TO BE 1200mm DIAMETER.
 - TRENCH BACKFILL MUST CONFORM TO CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS SECTION 0218.
 - SEE DWG 5002 FOR CATCHBASIN, CATCHBASIN MANHOLE AND MANHOLE PLACEMENT TABLES.



NOTE:
THE LOCATION OF THE UTILITIES IS APPROXIMATE ONLY, AND THE EXACT LOCATION SHOULD BE DETERMINED BY CONSULTING THE MUNICIPAL AUTHORITIES AND UTILITY COMPANIES CONCERNED. THE CONTRACTOR SHALL ALSO VERIFY THE EXACT LOCATION AND INVERT ELEVATION BY HAND EXCAVATION BEFORE CONSTRUCTION OF THE UTILITY CROSSING AND SHALL BE RESPONSIBLE FOR ADEQUATE PROTECTION FROM DAMAGE.

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Consultant

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 VERT 0 0.5 1.0 1.5 2.0m
 1:50

drawn by BRT
 designed by BRT
 checked by JK
 date 03-05-2019

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 Signature
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 The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER
 JAMES G. CAMPBELL
 3 May 2019

AECOM
Prime Consultant

Edmonton

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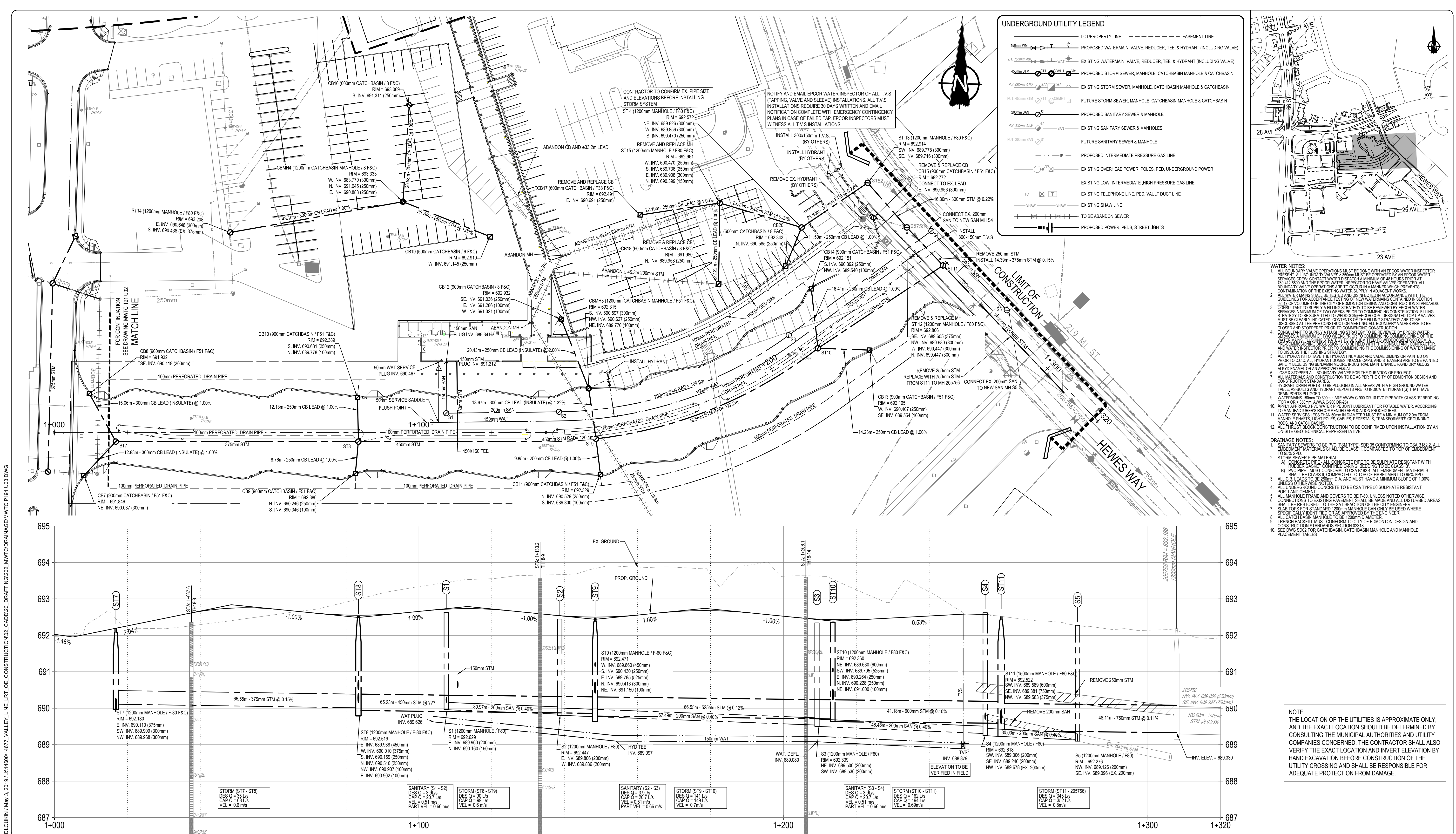
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gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
 66 STREET & 28 AVENUE
 UTILITY PLAN / PROFILE

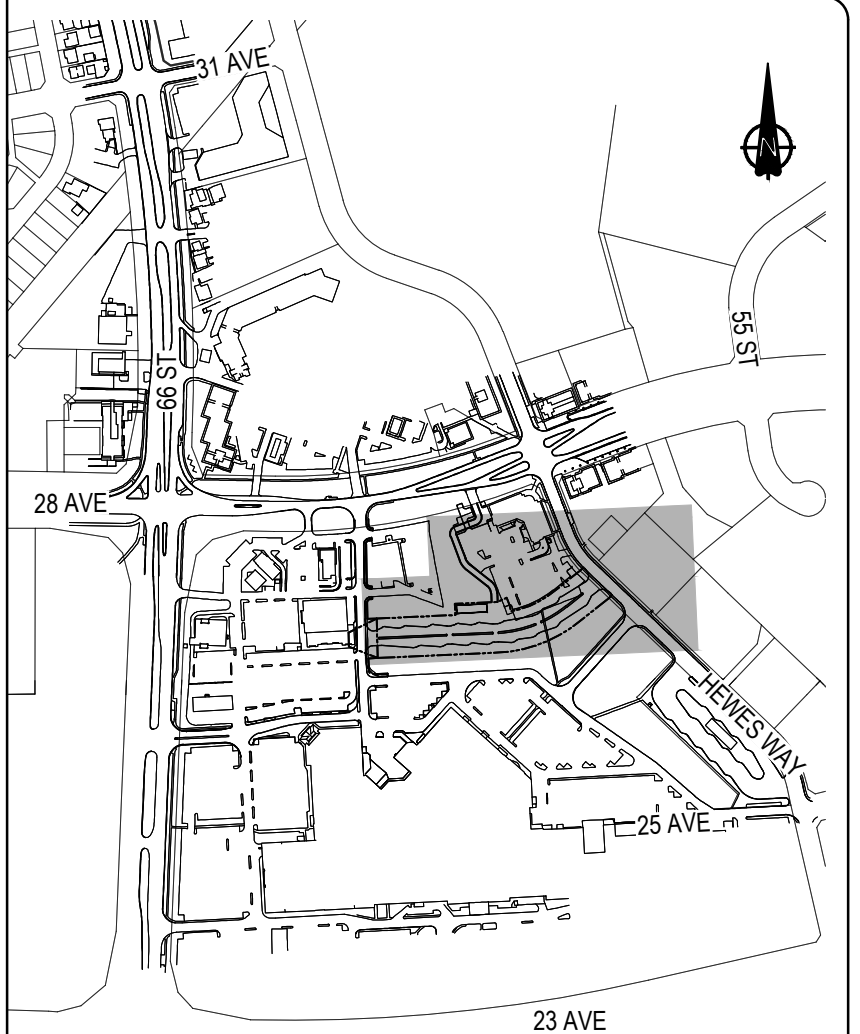
VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 U02**
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UNDERGROUND UTILITY LEGEND

	LOT PROPERTY LINE		EASEMENT LINE
	PROPOSED WATERMAIN, VALVE, REDUCER, TEE, & HYDRANT (INCLUDING VALVE)		EXISTING WATERMAIN, VALVE, REDUCER, TEE, & HYDRANT (INCLUDING VALVE)
	PROPOSED STORM SEWER, MANHOLE, CATCHBASIN MANHOLE & CATCHBASIN		EXISTING STORM SEWER, MANHOLE, CATCHBASIN MANHOLE & CATCHBASIN
	FUTURE STORM SEWER, MANHOLE, CATCHBASIN MANHOLE & CATCHBASIN		PROPOSED SANITARY SEWER & MANHOLE
	EXISTING SANITARY SEWER & MANHOLES		FUTURE SANITARY SEWER & MANHOLE
	PROPOSED INTERMEDIATE PRESSURE GAS LINE		EXISTING OVERHEAD POWER, POLES, PED, UNDERGROUND POWER
	EXISTING LOW, INTERMEDIATE, HIGH PRESSURE GAS LINE		EXISTING TELEPHONE LINE, PED, VAULT DUCT LINE
	EXISTING SHAW LINE		TO BE ABANDONED SEWER
	PROPOSED POWER, PEDS, STREETLIGHTS		



- WATER NOTES:**
1. ALL BOUNDARY VALVE OPERATIONS MUST BE DONE WITH AN EPICOR WATER INSPECTOR PRESENT. ALL BOUNDARY VALVES 250mm MUST BE OPERATED BY AN EPICOR WATER SERVICES CREW. CONTACT WATER DISPATCH A MINIMUM OF 48 HOURS PRIOR AT 781-8888 AND THE EPICOR WATER SERVICES CREW MUST BE ADVISED. ALL BOUNDARY VALVE OPERATIONS ARE TO OCCUR IN A MANNER WHICH PREVENTS CONTAMINATION OF THE EXISTING WATER SUPPLY IN ADJACENT WORKS.
 2. ALL WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE CONTAMINATION OF WATER SUPPLY REGULATIONS (CWR) SECTION 4.0.1. THE DISINFECTION REPORT SHALL BE SUBMITTED TO THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION.
 3. ALL WATER MAINS SHALL BE TESTED AND DISINFECTED IN ACCORDANCE WITH THE CONTAMINATION OF WATER SUPPLY REGULATIONS (CWR) SECTION 4.0.1. THE DISINFECTION REPORT SHALL BE SUBMITTED TO THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS DEPARTMENT FOR REVIEW AND APPROVAL PRIOR TO COMMENCING CONSTRUCTION. FILLING STRATEGY TO BE SUBMITTED TO HYDROLOGICAL ENGINEERING DIVISION. ALL VALVES MUST BE CLEARLY INDICATED. CONTENTS OF THE FILLING STRATEGY ARE TO BE DISCUSSED AT THE PRE-CONSTRUCTION MEETING. ALL BOUNDARY VALVES ARE TO BE CLOSED AND STOPPED PRIOR TO COMMENCING CONSTRUCTION.
 4. DISINFECTANT FILLING STRATEGY TO BE SUBMITTED TO HYDROLOGICAL ENGINEERING DIVISION. A MINIMUM OF TWO WEEKS PRIOR TO COMMENCING COMMISSIONING OF THE WATER MAINS. FILLING STRATEGY TO BE HELD WITH THE CONSULTANT, CONTRACTOR AND WATER INSPECTOR PRIOR TO COMMENCING THE COMMISSIONING OF WATER MAINS TO DISCUSS THE FILLING STRATEGY.
 5. ALL HYDRANTS TO HAVE THE HYDRANT NUMBER AND VALVE DIMENSION PAINTED ON PRIOR TO C.C. ALL HYDRANT DOMES, NOZZLE CAPS, AND STEAMERS ARE TO BE PAINTED SAFETY BLUE USING BENJAMIN MOORE INDUSTRIAL MAINTENANCE RAPID DRY GLOSS ALKO ENAMEL OR AN APPROVED EQUAL.
 6. LOSE & STOPPER ALL BOUNDARY VALVES FOR THE DURATION OF PROJECT.
 7. ALL MATERIALS AND CONSTRUCTION TO BE AS PER THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS.
 8. HYDRANT DRAIN PORTS TO BE PLUGGED IN ALL AREAS WITH A HIGH GROUND WATER TABLE. AS PER THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS. DRAIN PORTS PLUGGED.
 9. WATERMANS 150mm TO 300mm ARE AWWA C-900 DR-18 PVC PIPE WITH CLASS 'B' BEDDING. (FOR <math>D < 300\text{mm}</math> AWWA C-900 DR-25).
 10. APPROVED PVC WATER PIPE JOINT LUBRICANT FOR POTABLE WATER. WATER MAINS SHALL BE CLASS II COMPACTED TO TOP OF EMBEDEDMENT TO 95% SPD.
 11. WATER SERVICES SHALL MINIMUM 25mm DIAMETER MUST BE A MINIMUM OF 2m FROM MANHOLE SHAFTS, LIGHT POLES, CABLES, FIRE STAKES, TRANSFORMERS, GROUNDING ANCHORS AND CATCH BASINS.
 12. ALL BLOCK CONSTRUCTION TO BE CONFIRMED UPON INSTALLATION BY AN ON-SITE GEOTECHNICAL REPRESENTATIVE.
- DRAINAGE NOTES:**
1. SANITARY SEWERS TO BE PVC (SPM TYPE) SDR35 CONFORMING TO CSA B182.2. ALL EMBEDEDMENT MATERIALS SHALL BE CLASS II COMPACTED TO TOP OF EMBEDEDMENT TO 95% SPD.
 2. SANITARY SEWER PIPE MATERIAL:
 - A) CONCRETE PIPE - ALL CONCRETE PIPE TO BE SULPHATE RESISTANT WITH RUBBER GASKET CONFINED DRING BEDDING TO BE CLASS 'B'.
 - B) PVC PIPE - MUST CONFORM TO THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS. ALL CONCRETE PIPE TO BE CLASS II COMPACTED TO TOP OF EMBEDEDMENT TO 95% SPD, UNLESS OTHERWISE NOTED.
 3. ALL CB LEADS TO BE CONCRETE TO BE CSA TYPE 50 SULPHATE RESISTANT PORTLAND CEMENT.
 4. ALL UNDERGROUND CONSTRUCTION TO BE AS PER THE CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS.
 5. ALL MANHOLE FRAME AND COVERS TO BE F-80, UNLESS NOTED OTHERWISE CONNECTIONS TO EXISTING PAVEMENT SHALL BE MADE AND ALL DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
 6. SLAB TOPS FOR STANDARD 1200mm MANHOLE CAN ONLY BE USED WHERE SPECIFICALLY IDENTIFIED AND APPROVED BY THE ENGINEER.
 7. ALL CATCH BASIN MANHOLE TO BE 1200mm DIAMETER.
 8. TRENCH BACKFILL MUST CONFORM TO CITY OF EDMONTON DESIGN AND CONSTRUCTION STANDARDS SECTION 0215.
 9. SEE DWG S202 FOR CATCHBASIN, CATCHBASIN MANHOLE AND MANHOLE PLACEMENT TABLES.

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ISL Engineering and Land Services
Consultant

A1 bar scale
 HORZ 0 5 10 15 20m
 VERT 0 0.5 1.0 1.5 2.0m

drawn by BRT
 designed by BRT
 checked by JK
 date 03-05-2019

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 3 May 2019

consultant reviewed by B. CAMPBELL

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DIALOG

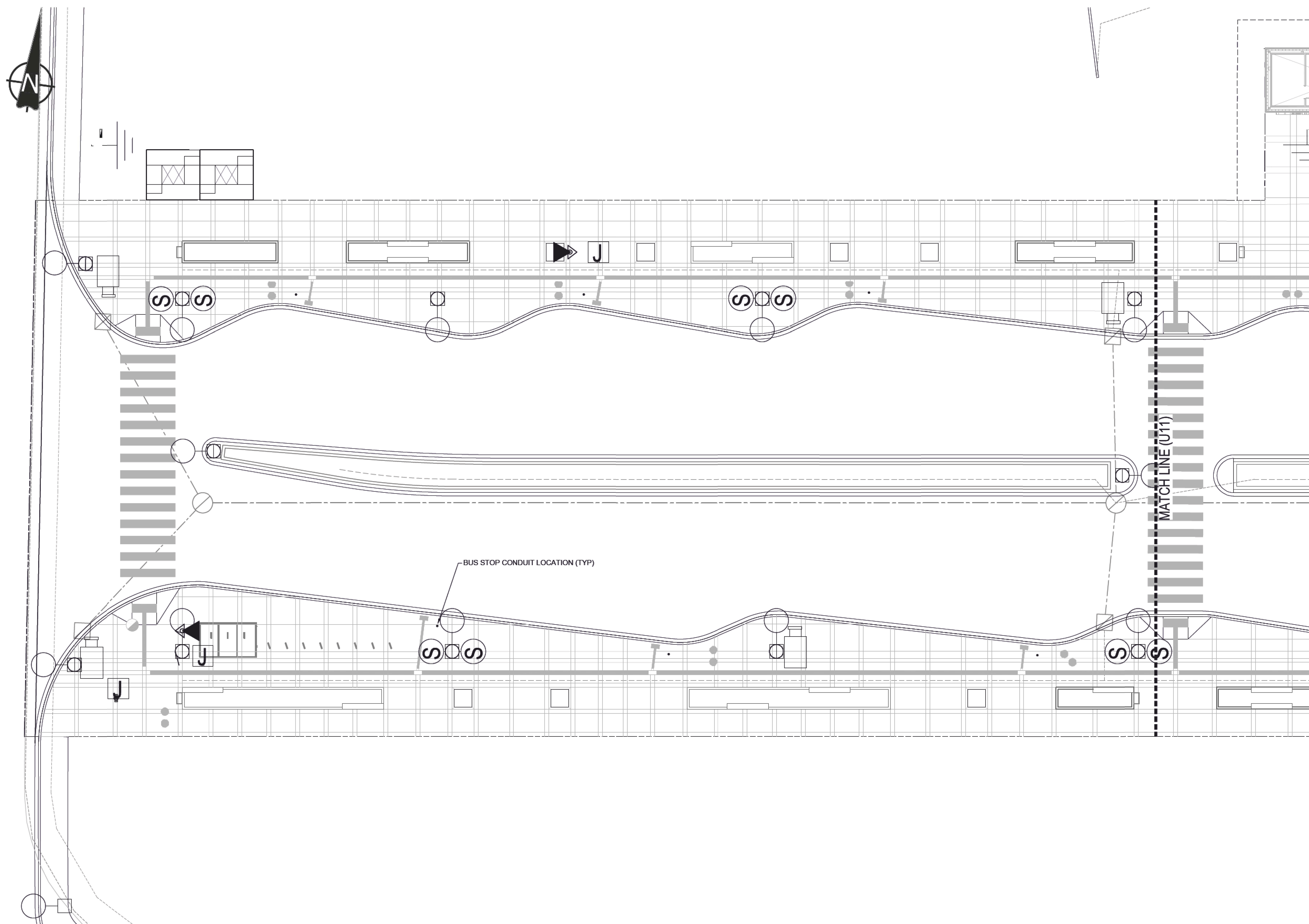
gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
 TRANSIT CENTRE
 UTILITY PLAN / PROFILE



VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

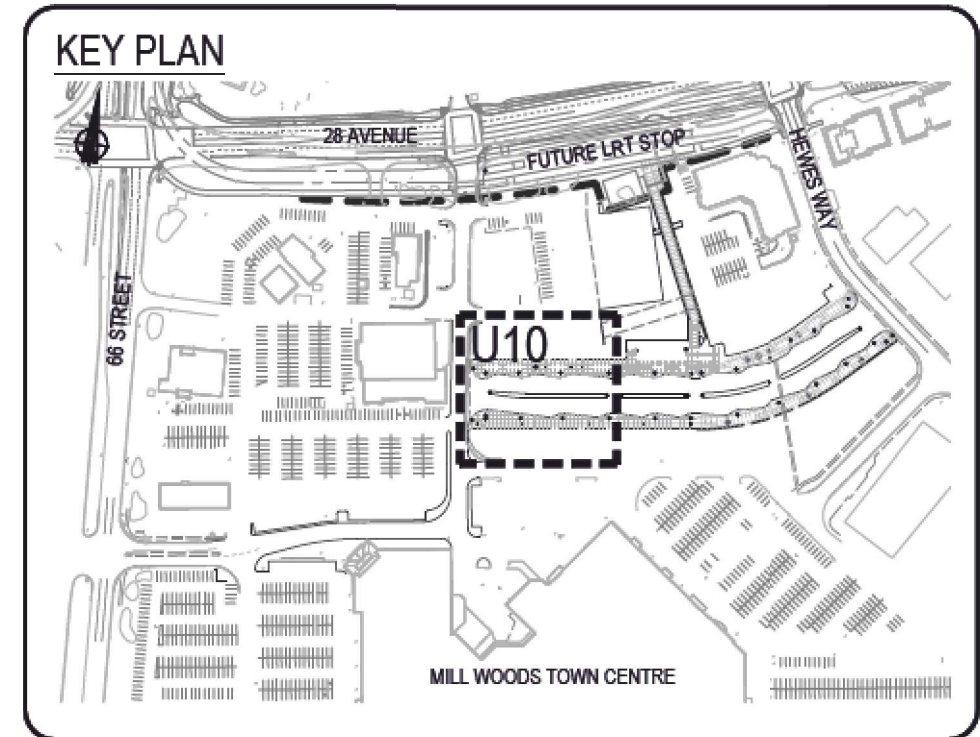
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LEGEND

-  LIGHT STANDARD
-  EMERGENCY PHONE



COORDINATES FOR CONDUIT & PILE LOCATIONS AT ELECTRICAL FEATURES WILL BE PROVIDED AT IFC

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ISL Engineering and Land Services
Consultant

A1 bar scale
1:150 metric
0 2.5 5 7.5m

drawn by
D. FRANKLIN

designed by
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drawing title
MILL WOODS TRANSIT CENTRE
ELECTRICAL FEATURE LAYOUT

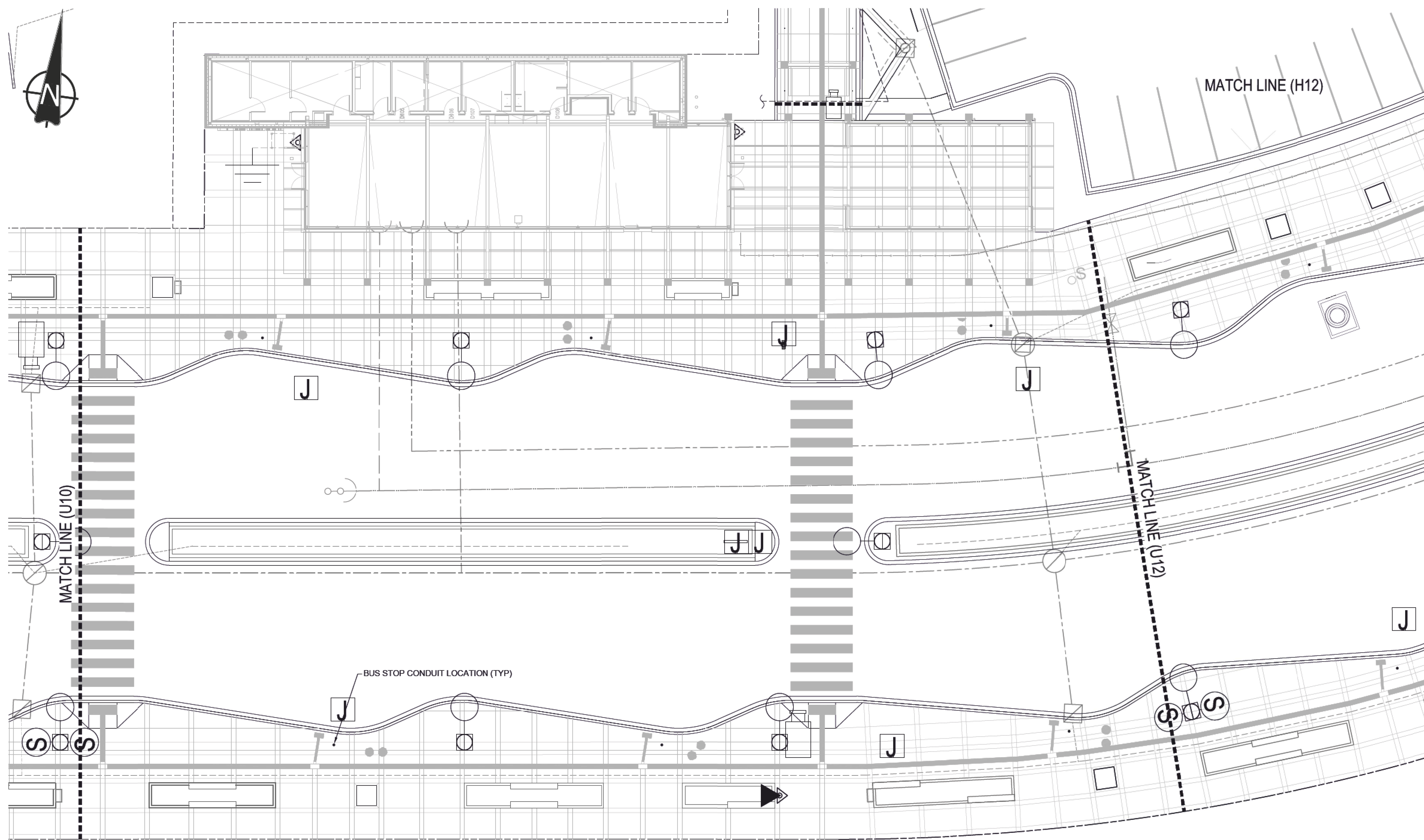


VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
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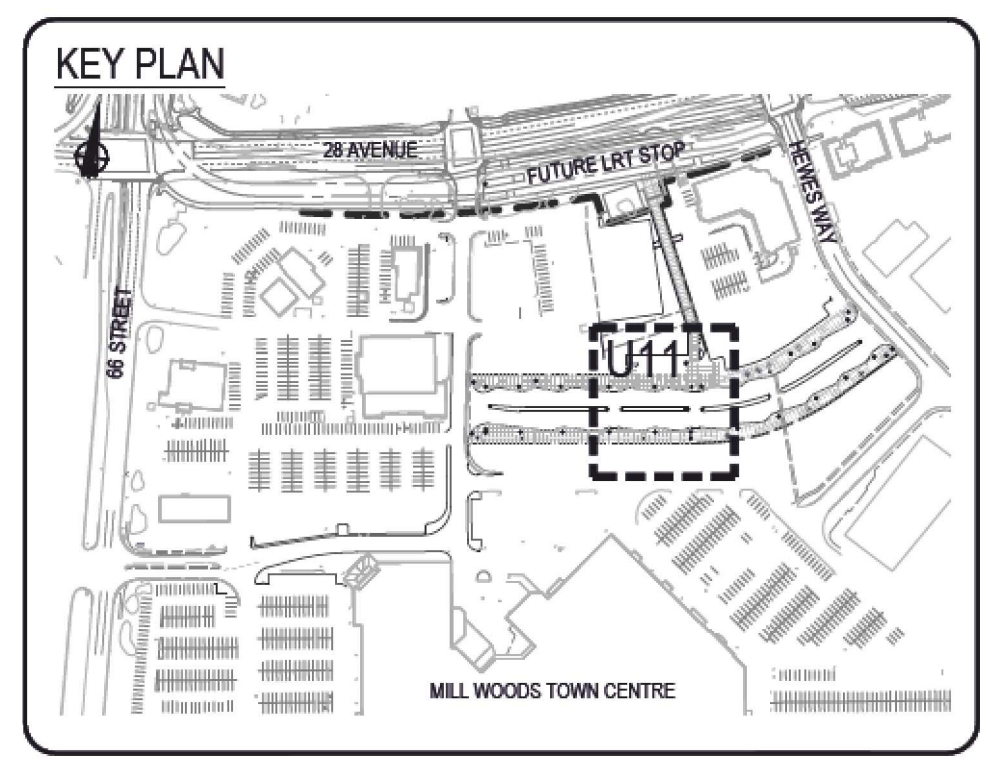
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LEGEND

- LIGHT STANDARD
- EMERGENCY PHONE



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A1 bar scale
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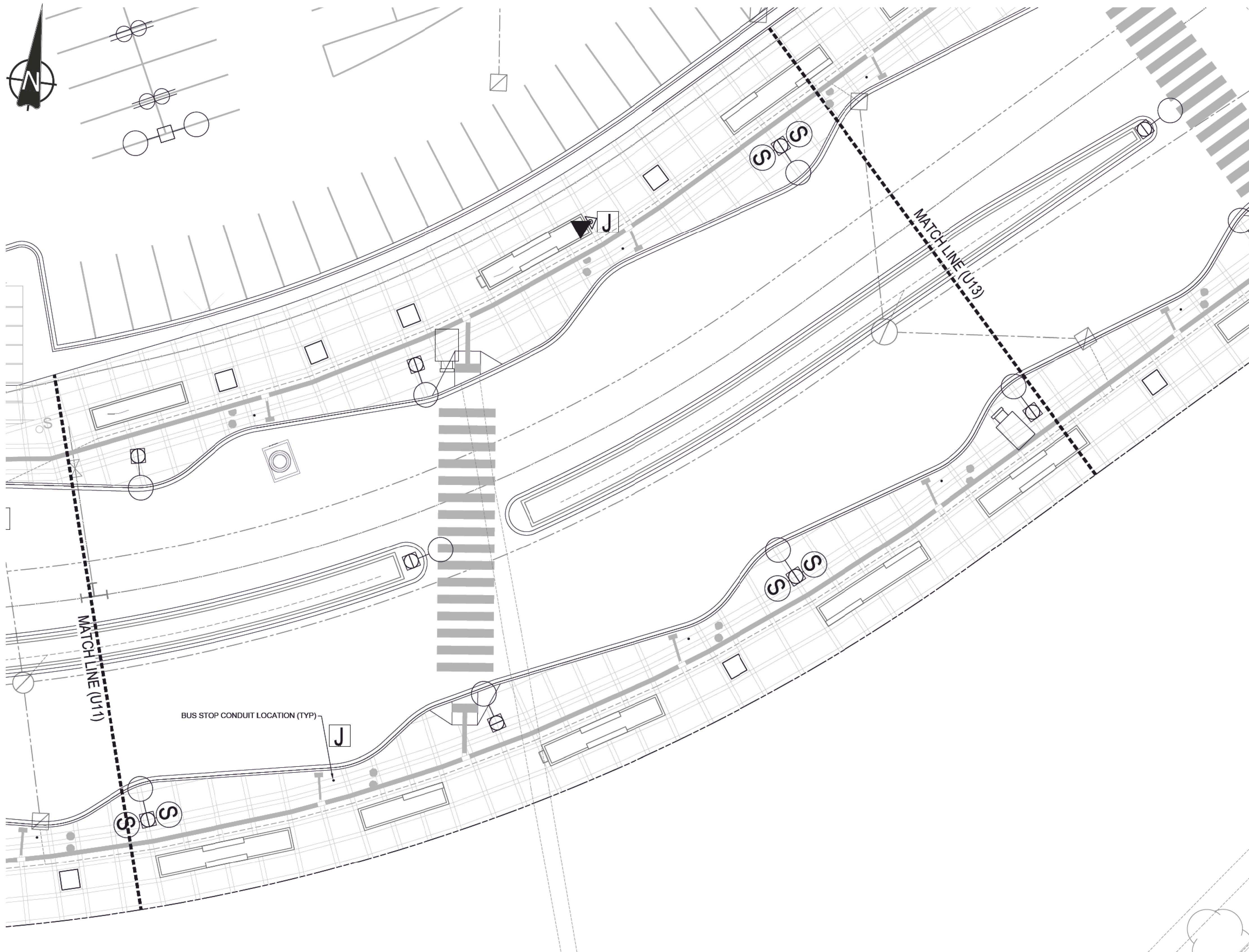
gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
ELECTRICAL FEATURE LAYOUT



VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

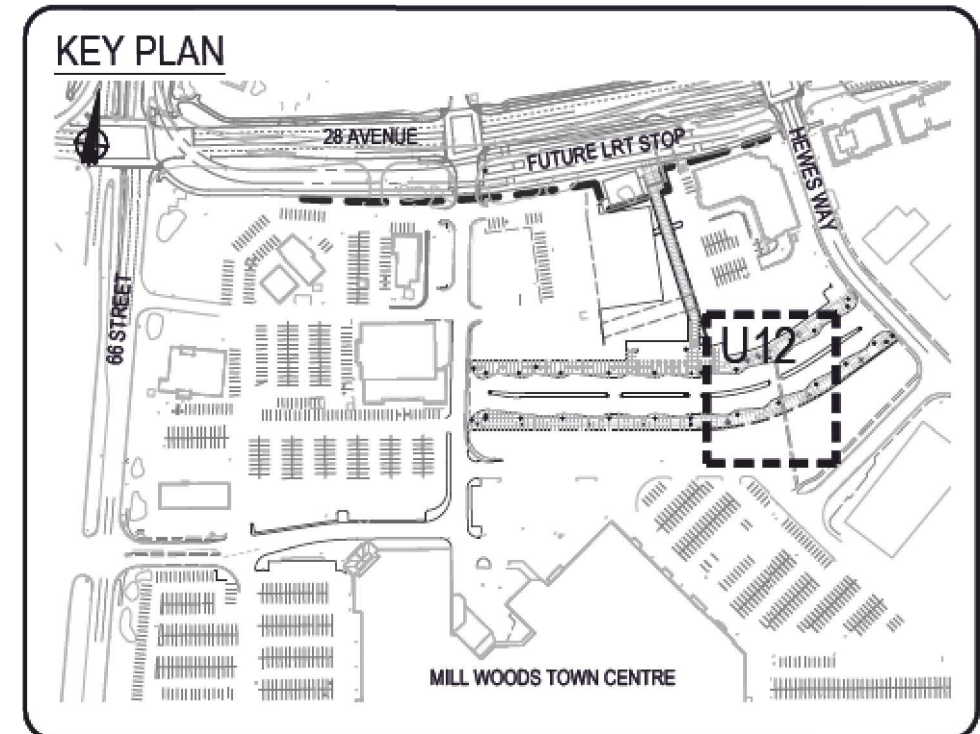
drawing no.
MWTC 191 U11

REV 0
SHT



LEGEND

-  LIGHT STANDARD
-  EMERGENCY PHONE



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no.	description	date	appd
	issue date		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:150
metric

0 2.5 5 7.5m

drawn by
D. FRANKLIN

designed by
J. SCHUREK

checked by
D. MARTIN

date
29-04-2019

consultant job no
14677

The Alberta Association of Landscape Architects
2019-05-03

Jeff Schurek

consultant reviewed by
B. CAMPBELL

AECOM
Prime Consultant

Edmonton

prime consultant job no

HATCH

ISSUED FOR TENDER

prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
ELECTRICAL FEATURE LAYOUT

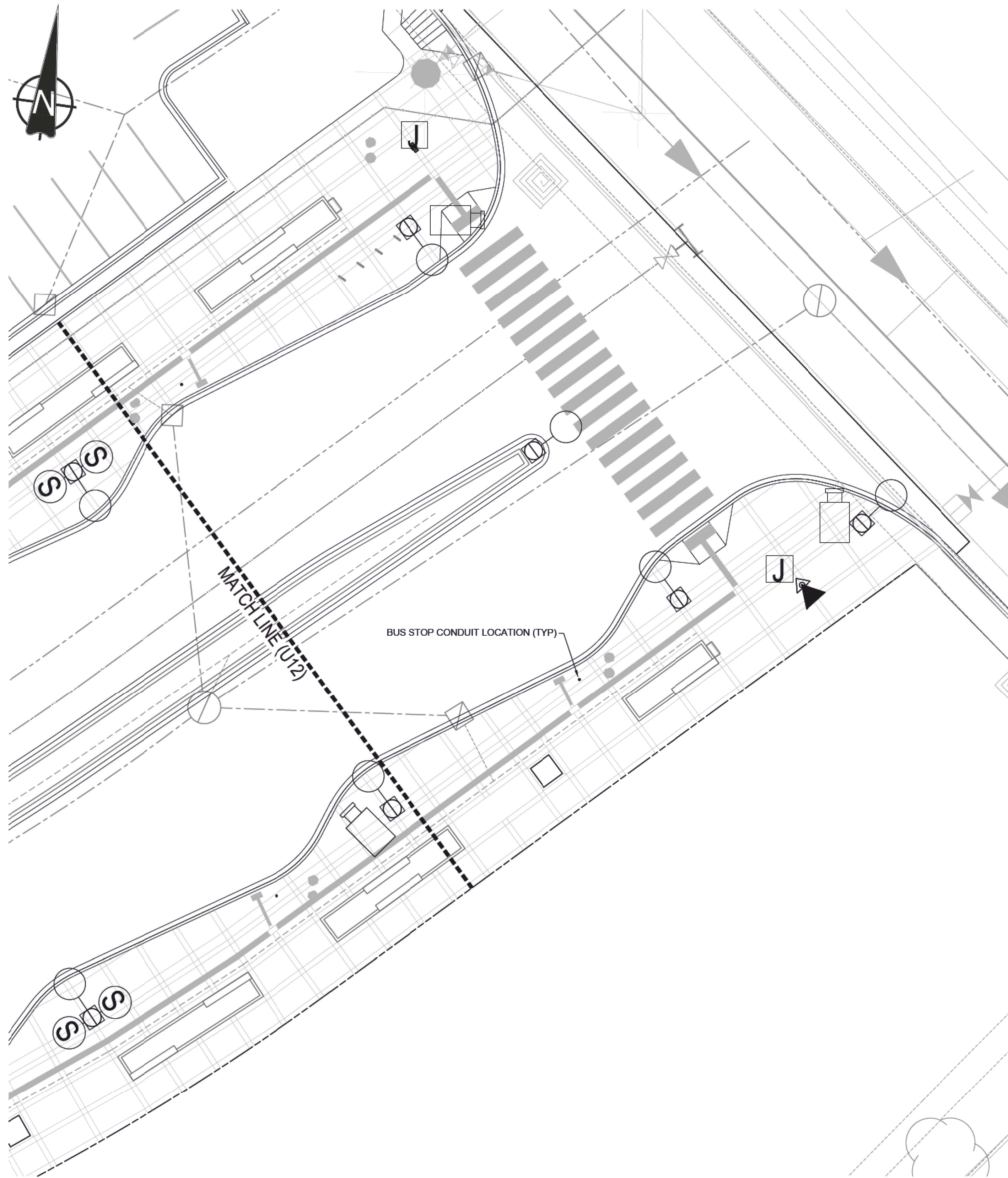


VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN



drawing no.
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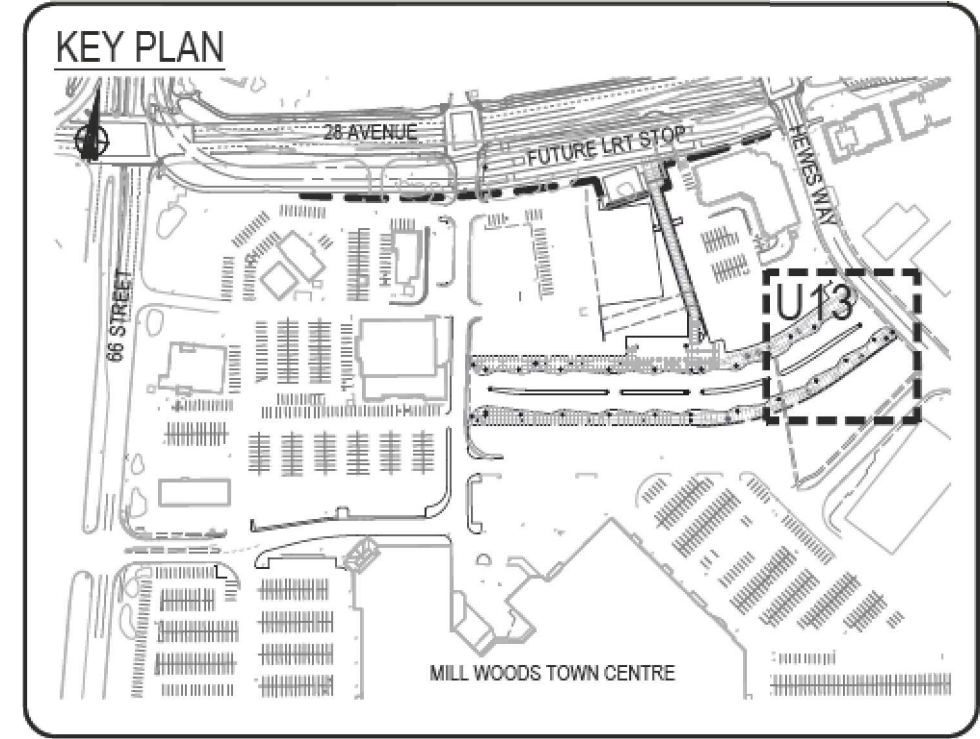
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LEGEND

-  LIGHT STANDARD
-  EMERGENCY PHONE



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	issue date		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:150
metric

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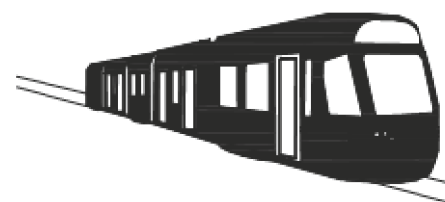
prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
ELECTRICAL FEATURE LAYOUT

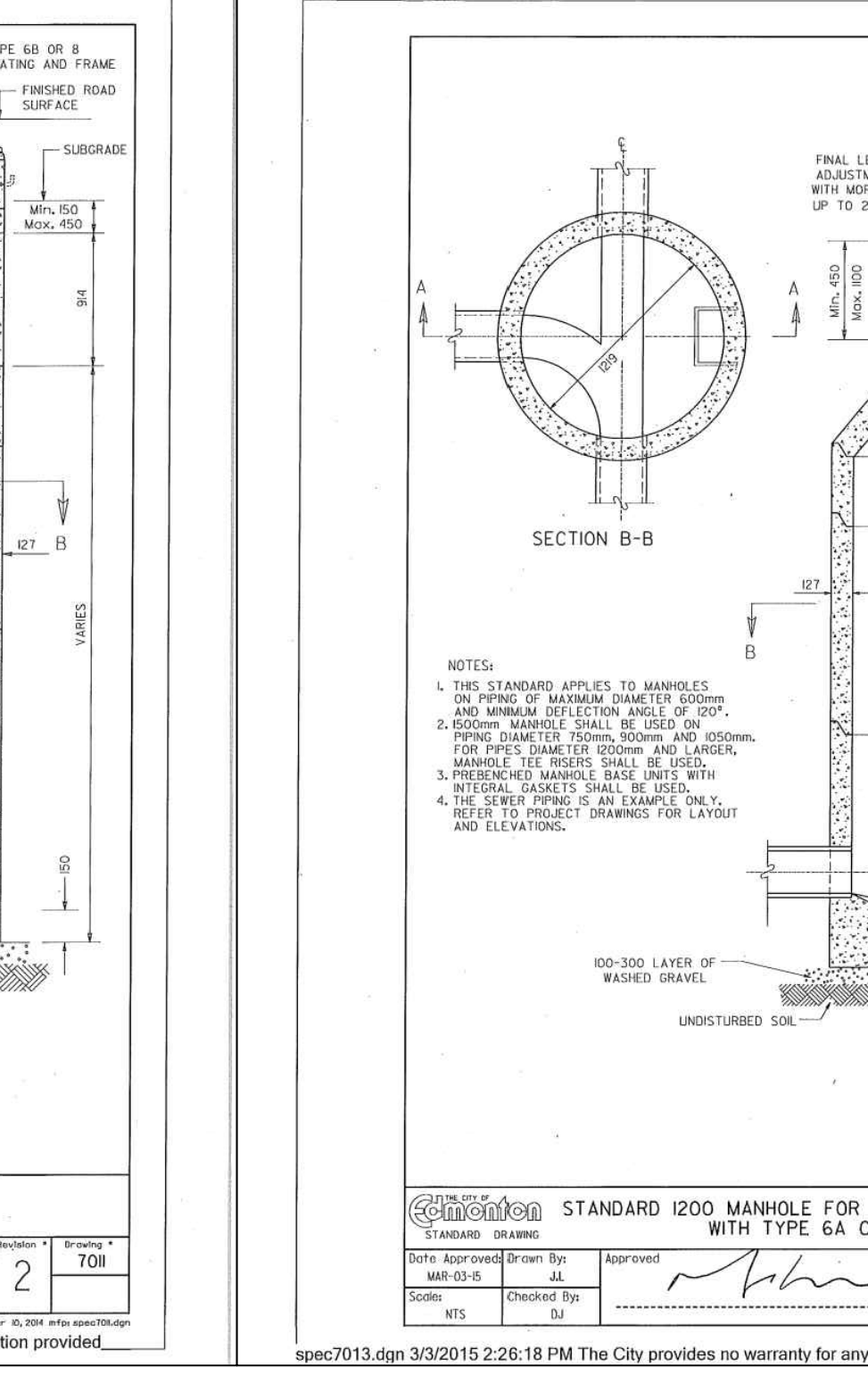
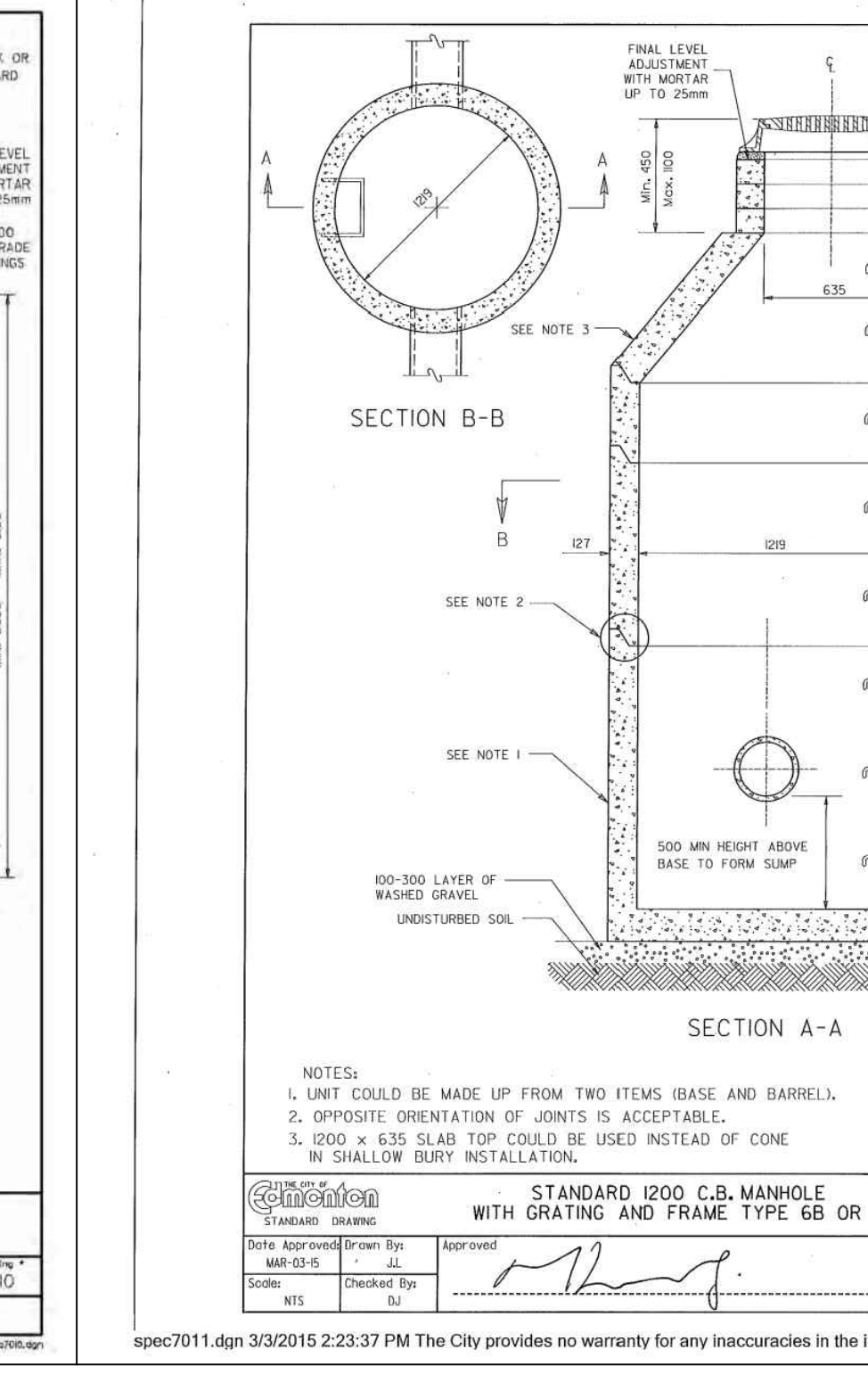
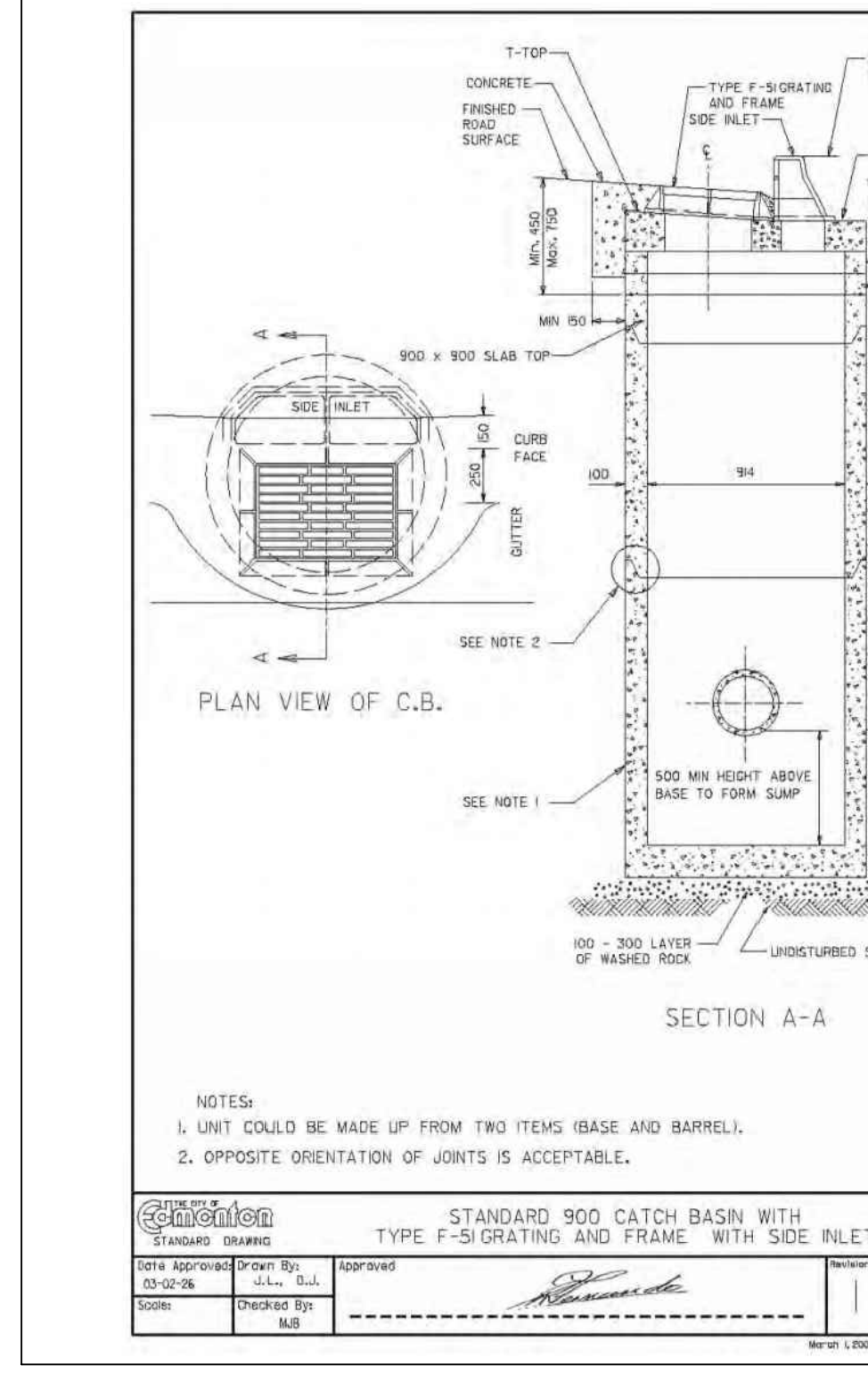
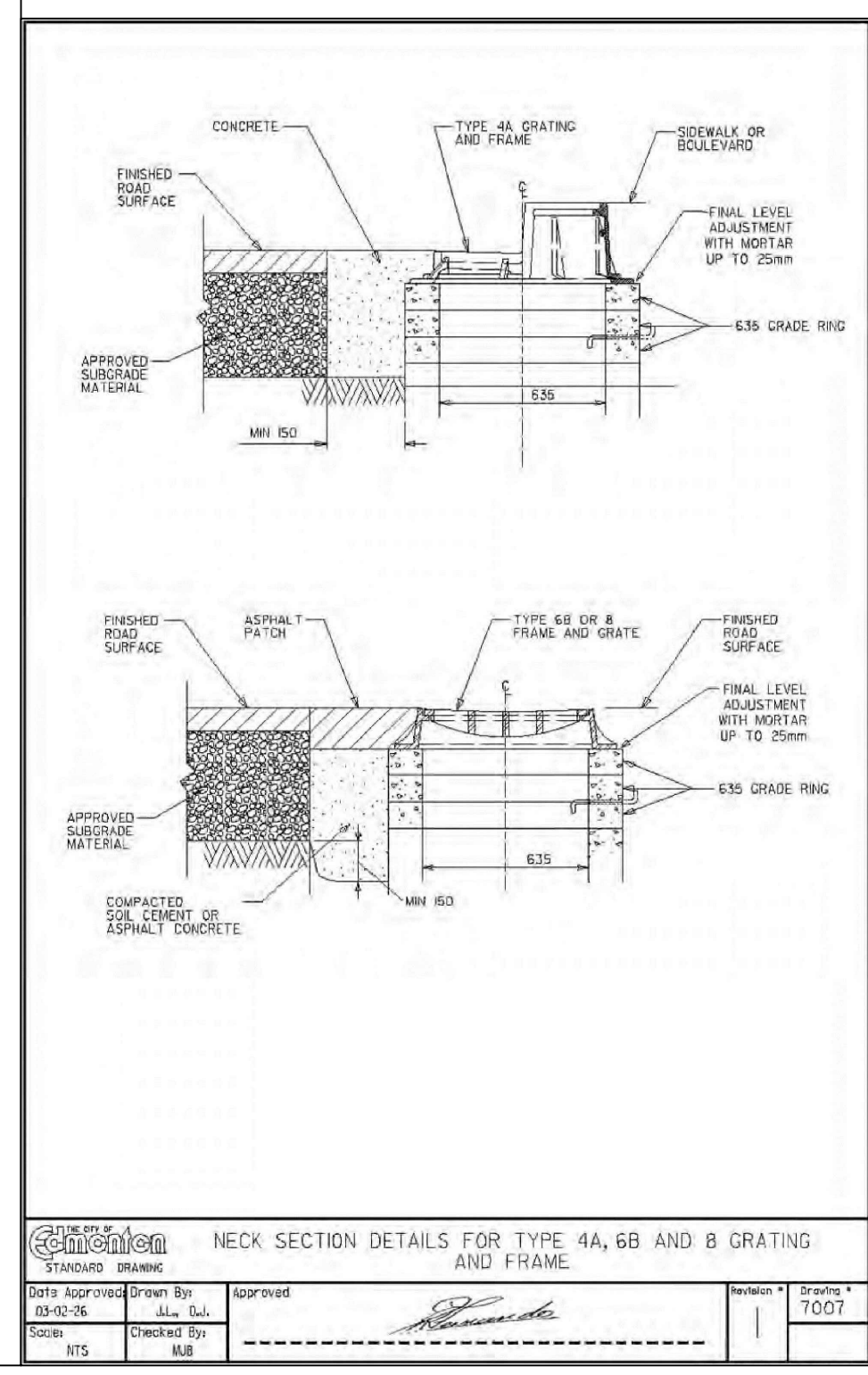
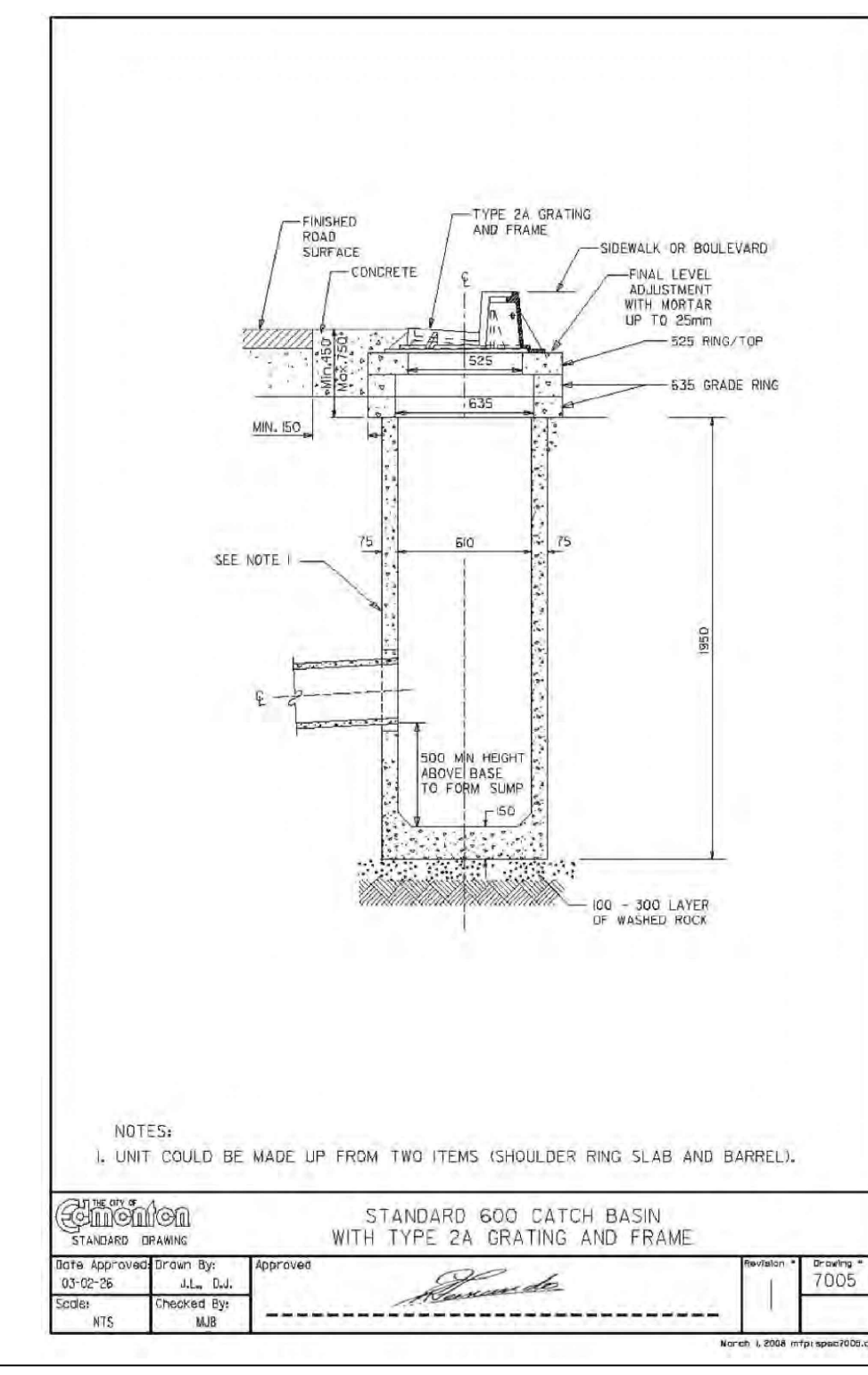
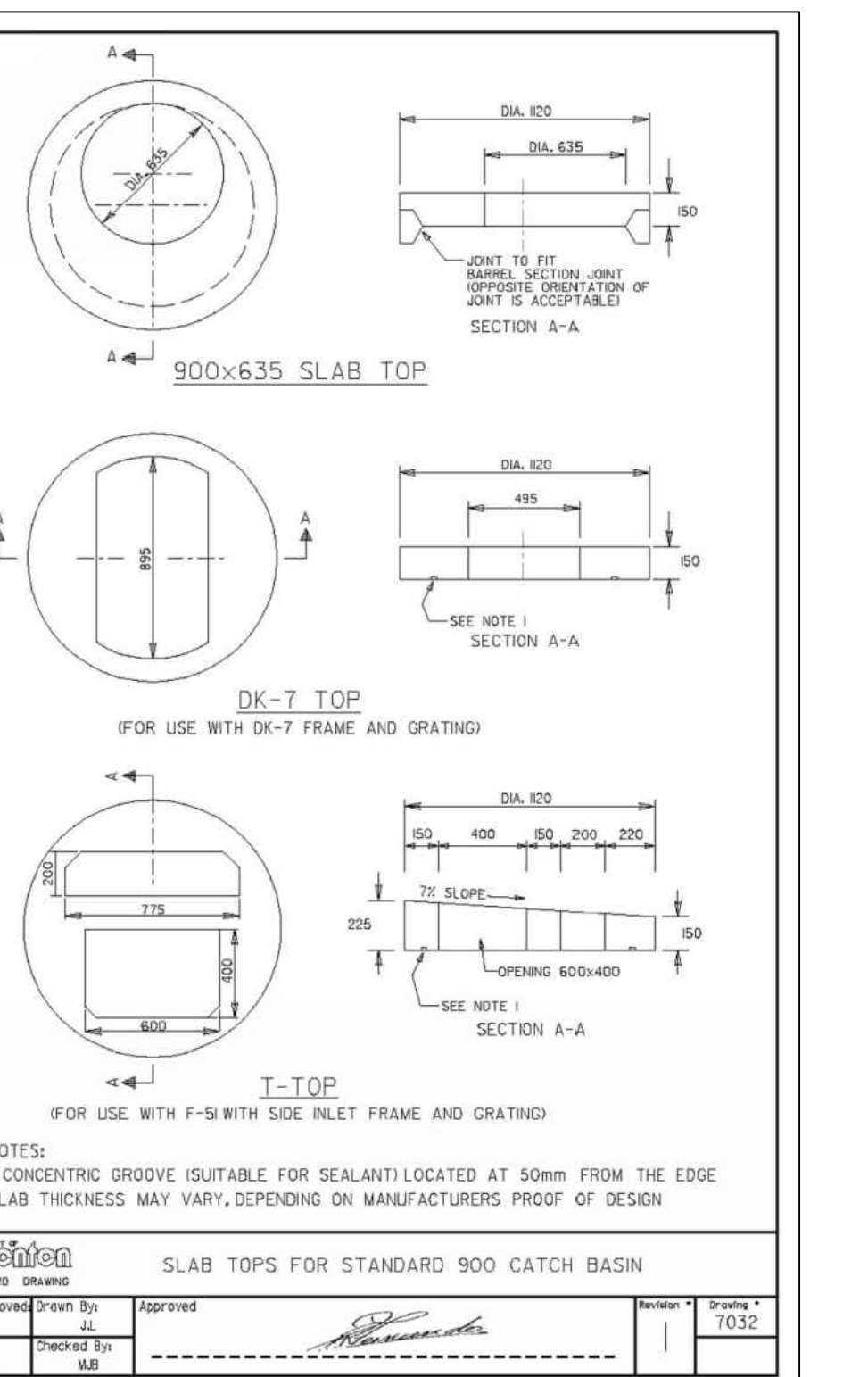
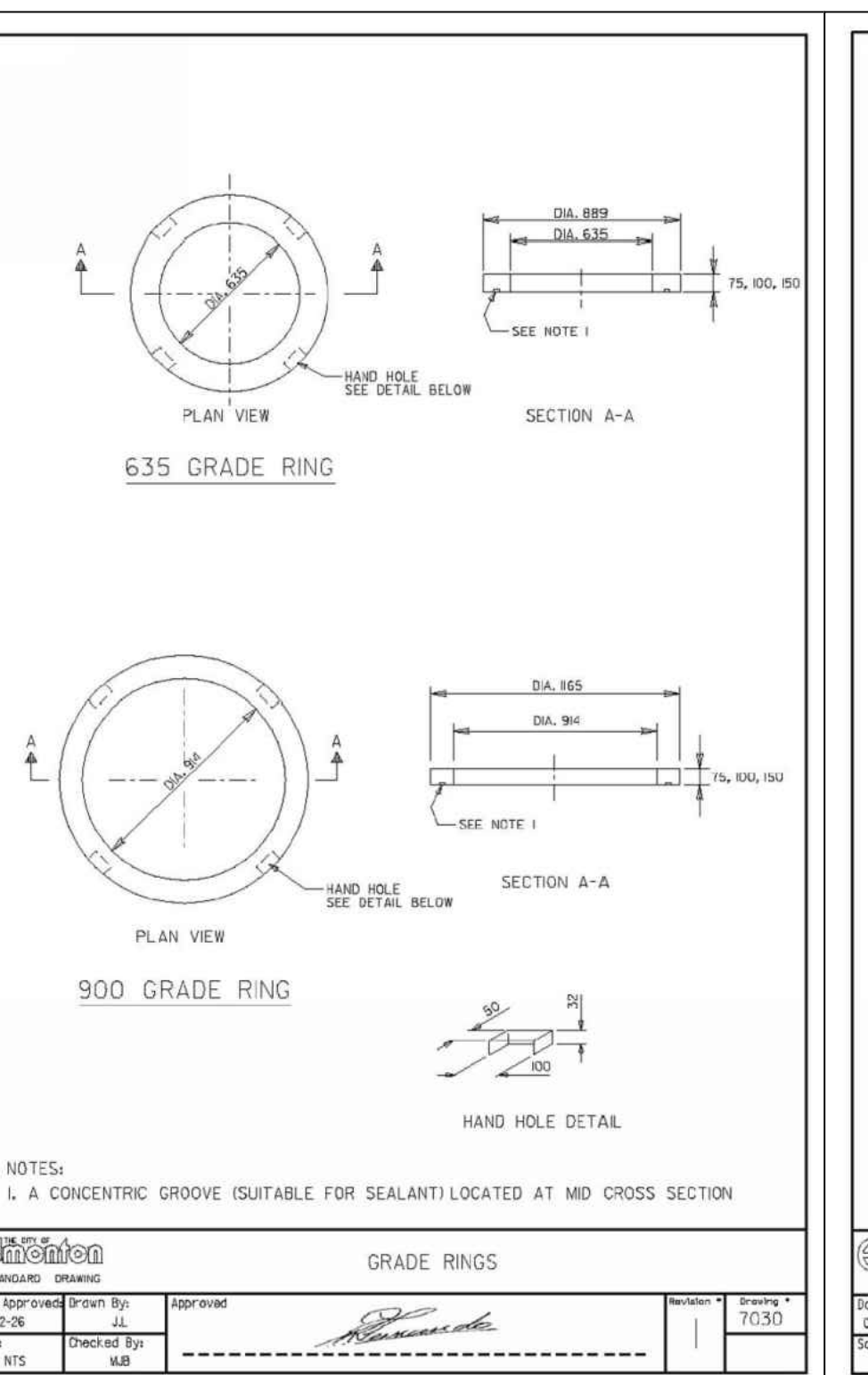
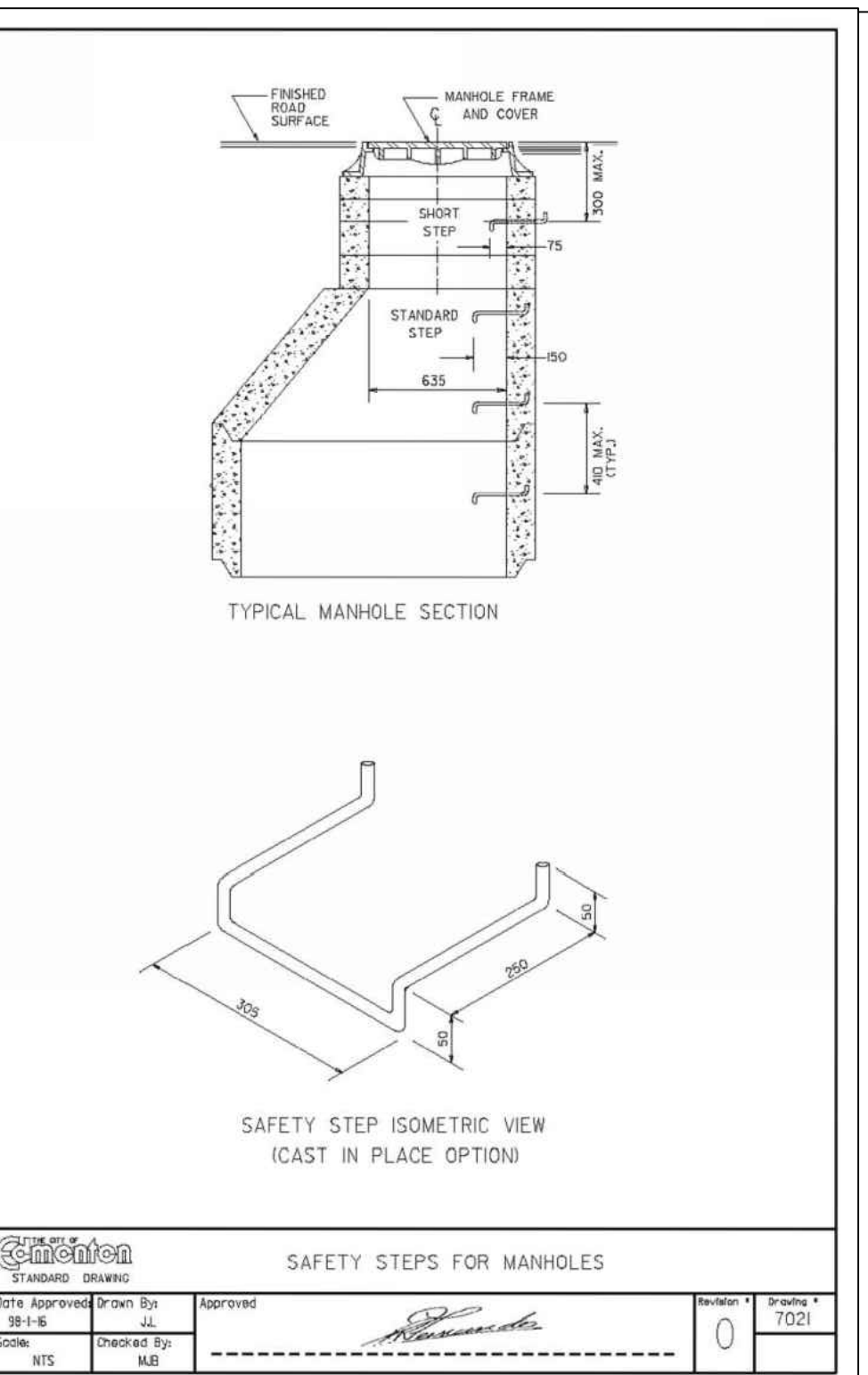
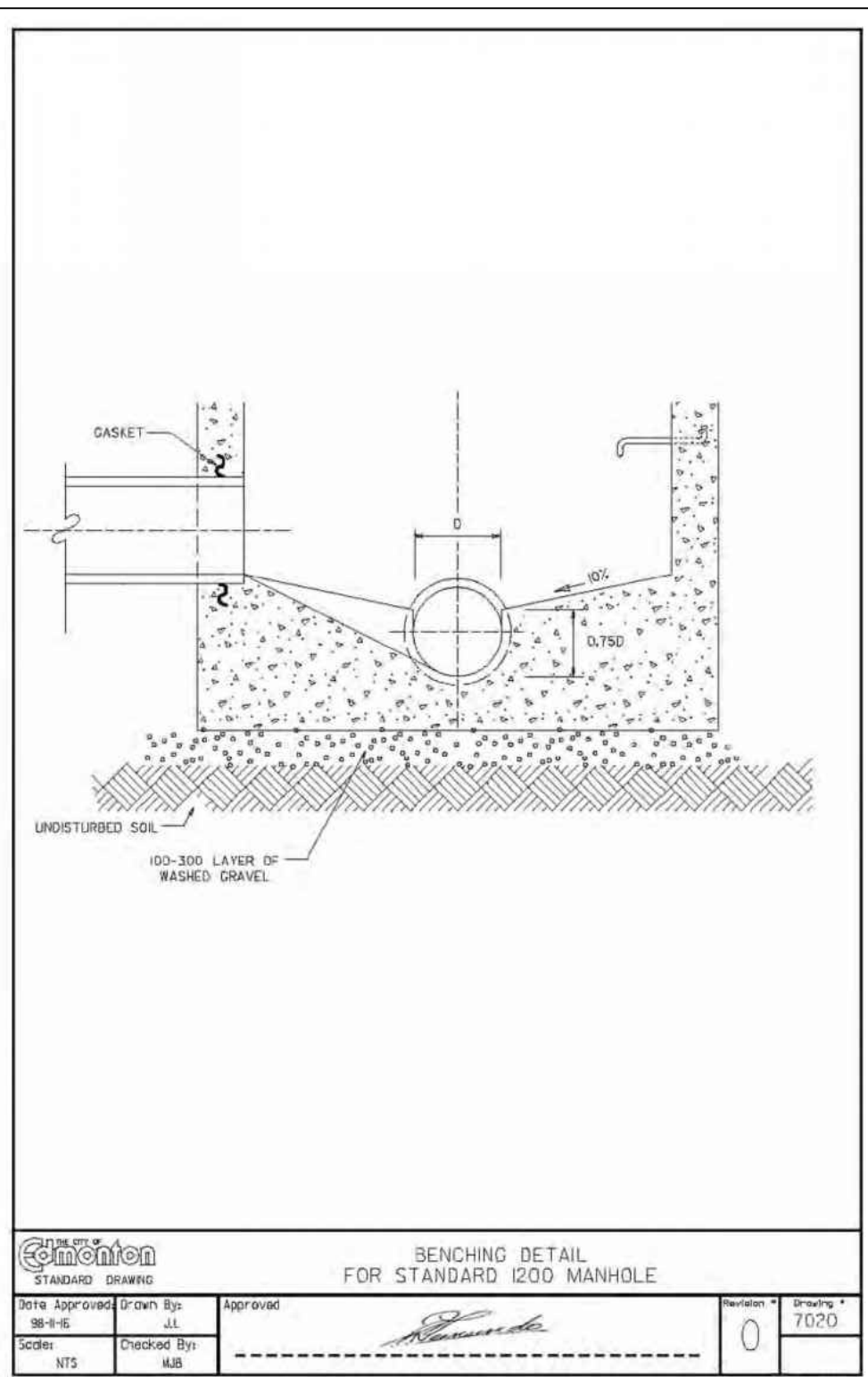
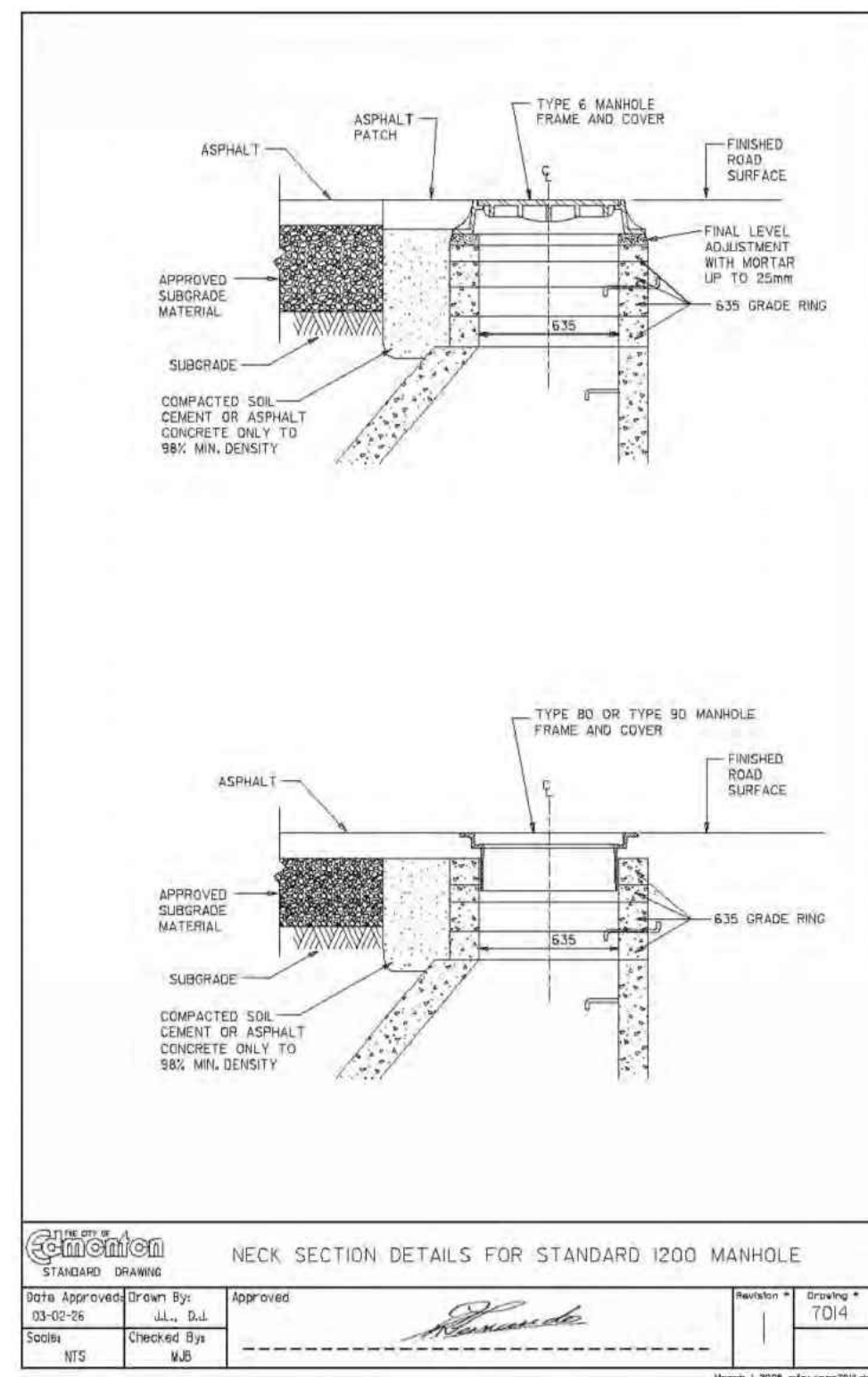


VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 U13

REV 0
SHT

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	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services	Consultant
A1 bar scale	N.T.S.
drawn by BRT	designed by BRT
checked by JK	date 03-05-2019

PERMIT TO PRACTICE
 ISL Engineering and Land Services Ltd.
 Signature: [Signature]
 Date: 2019-05-06
 PERMIT NUMBER: P-4741
 The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER
 JAMES G. CAMPBELL
 3 May, 2019

AECOM
 Prime Consultant

Edmonton

HATCH

ISSUED FOR TENDER

ISL Engineering and Land Services

DIALOG

gpc architecture

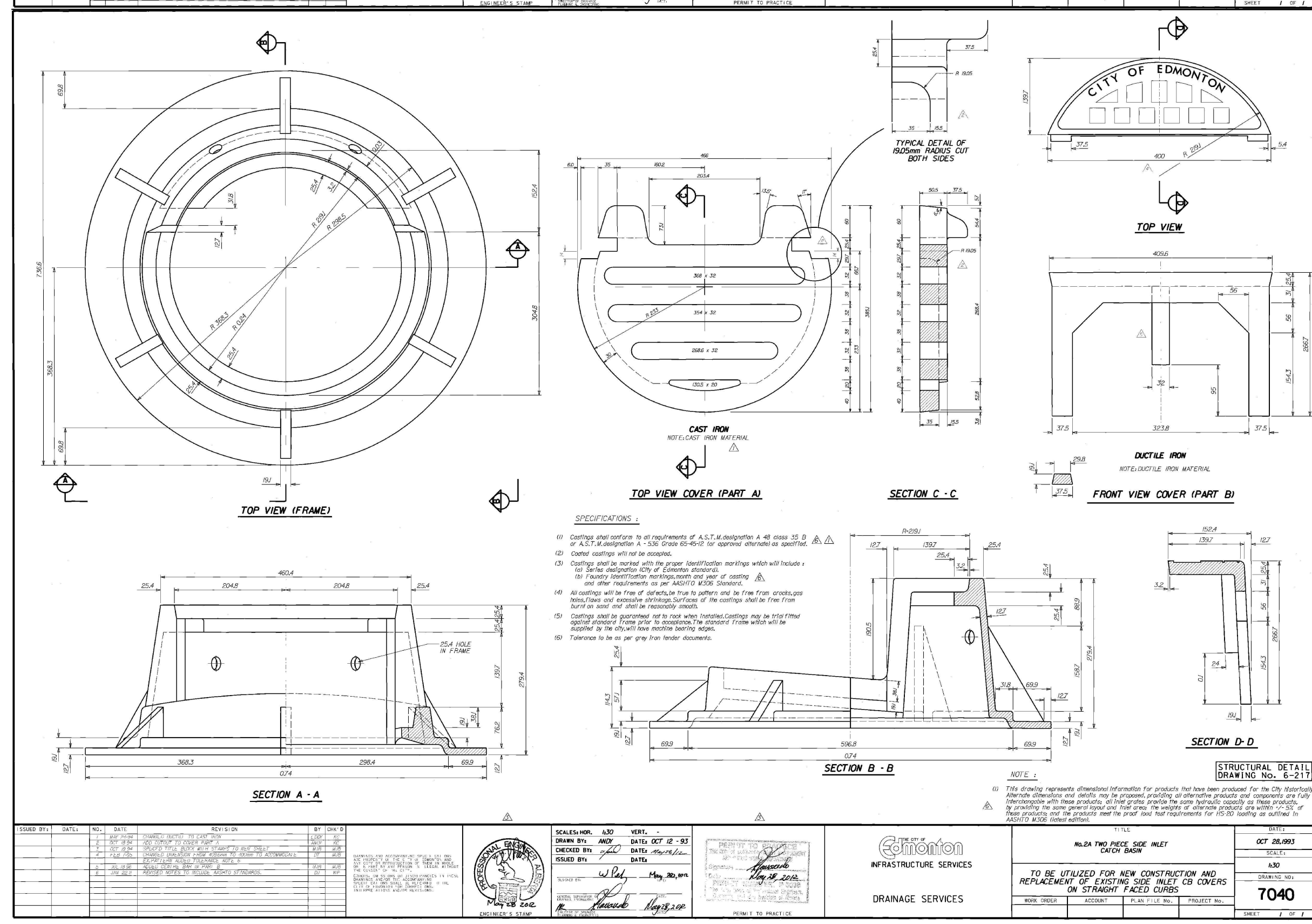
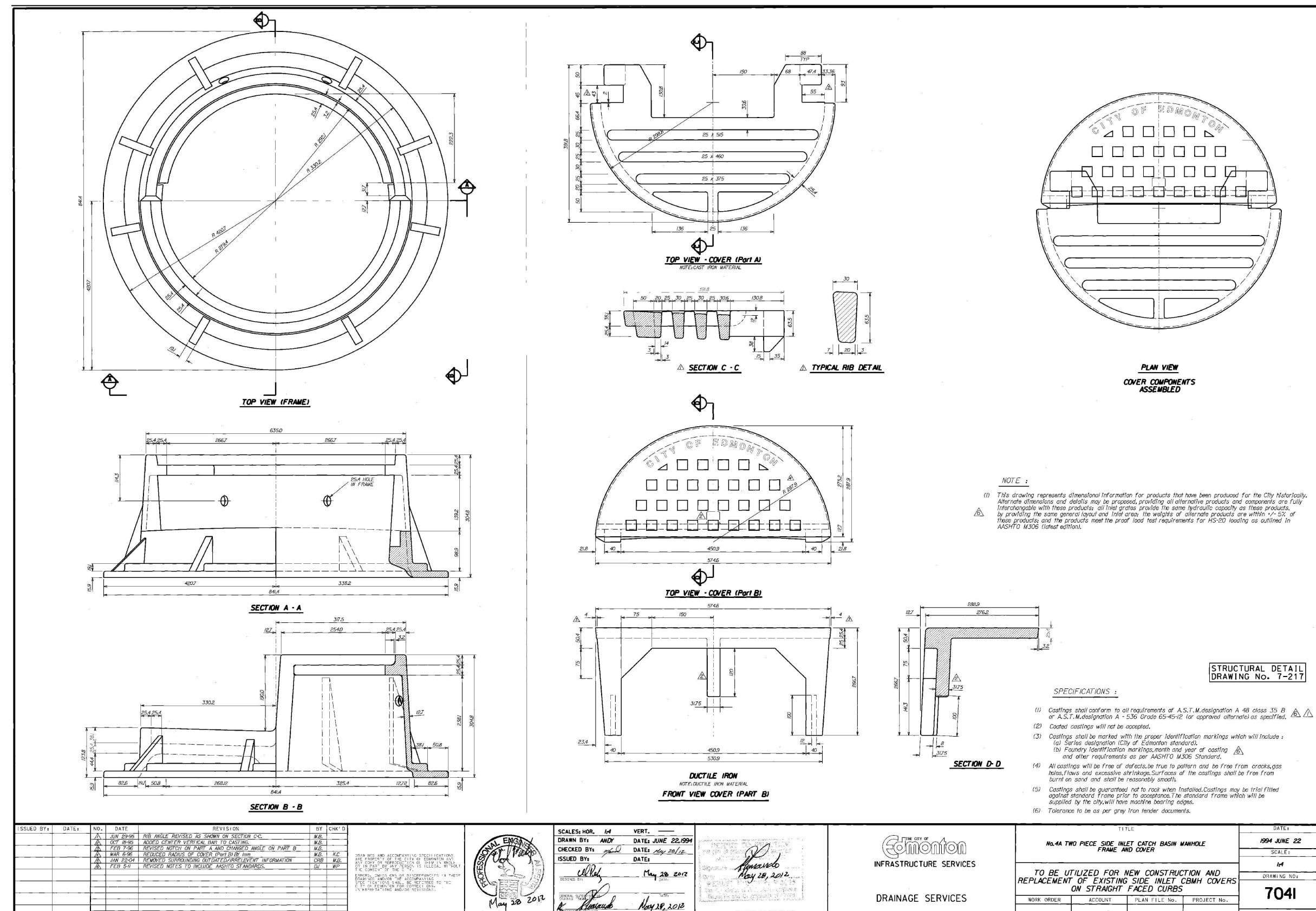
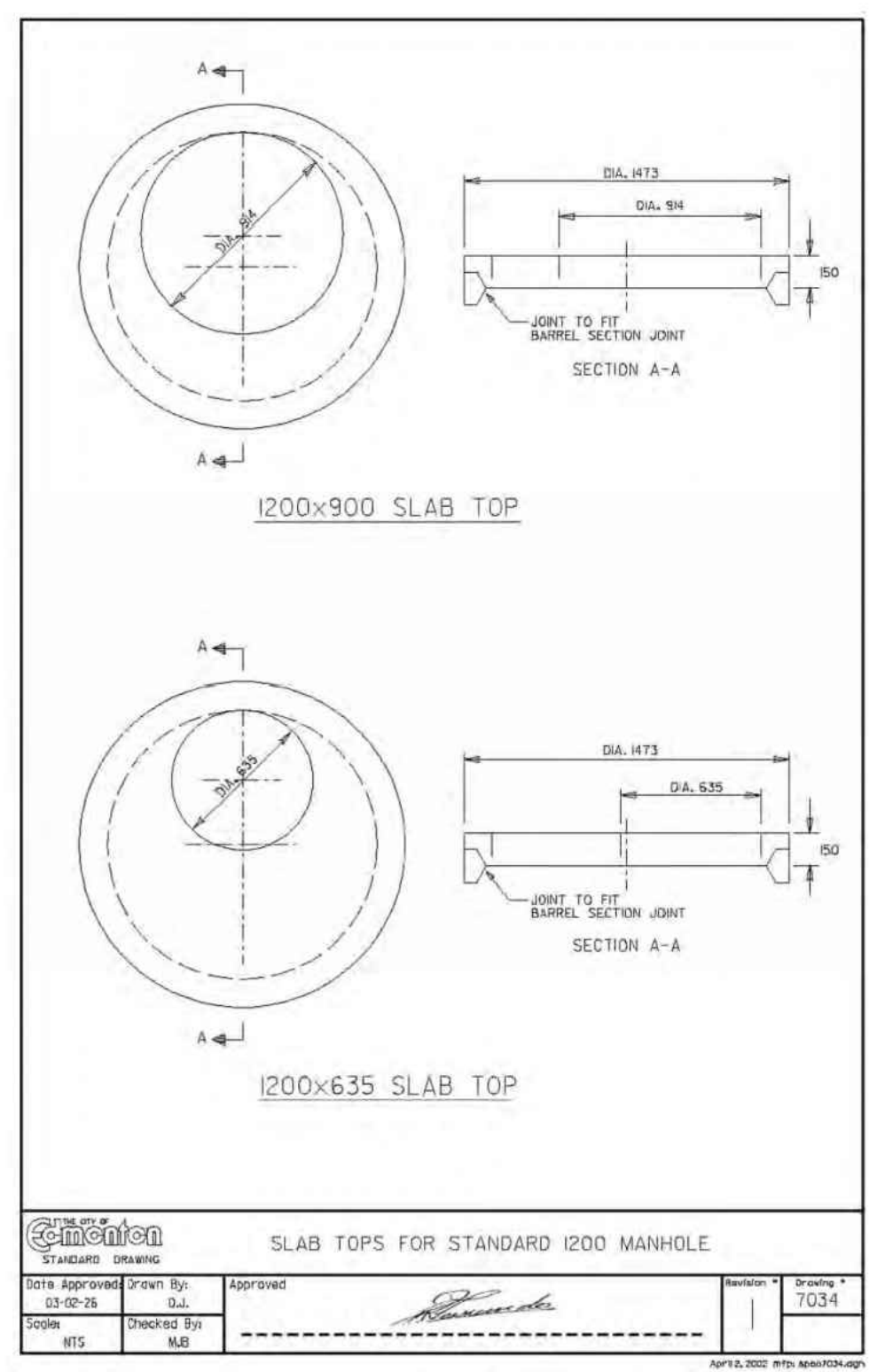
drawing title
MILL WOODS TRANSIT CENTRE
 TRANSIT CENTRE
 STANDARD DETAILS

VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 SD01**

REV 0
 SHT

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STORM MANHOLE PLACEMENT INFORMATION						
MANHOLE ID	NORTHING	EASTING	RIM	COVER	DIA.	INVERTS
ST 12	5925121.809	38000.654	692.806	F80	1200	SE 689.605 NW 689.680 W 690.447 E 689.447
ST 13	5925133.553	37989.355	692.914	F80	1200	SW 689.778 SE 689.716
ST1	5925044.263	37768.257	691.882	F80	1200	N 689.113 W 689.013
ST2	5925095.889	37767.216	692.424	F80	1200	S 689.286 E 689.494 NE 690.556 W 689.386
ST7	5925053.339	37786.490	692.180	F-80	1200	E 690.110 SW 689.909 NW 689.568
ST8	5925056.346	37852.975	692.519	F-80	1200	E 689.538 W 690.010 S 690.159 N 690.510 NW 690.907 E 690.902
ST9	5925060.062	37918.073	692.471	F-80	1200	W 689.860 S 690.430 E 689.785 N 690.413 NE 691.150
ST10	5925087.596	37977.756	692.360	F80	1200	NE 689.630 SW 689.705 E 690.264 N 690.228 NE 691.000
ST11	5925111.848	38011.037	692.522	F80	1500	SW 689.589 SE 689.381 NW 689.583
ST15	5925126.200	37949.074	692.961	F80	1200	W 690.470 S 689.736 E 689.908 N 690.399
ST 4	5925120.496	37971.796	692.572	F-80	1200	NE 689.826 W 689.856 S 690.470

CATCH BASIN PLACEMENT INFORMATION							
CB ID	DIA.	COVER	D/S MH	LOG ELEV.	NORTHING	EASTING	LOG to INV
CB 1	600	2A	CBMH1	691.706	5924970.401	37657.037	2.11
CB 2	600	2A		691.949	5924973.194	37750.458	1.80
CB3	600	2A	CBMH 2	691.420	5925017.937	37788.151	1.50
CB4	600	2A	STB	691.533	5925009.350	37767.208	1.83
CB5	600	2A	ST2	692.550	5925109.095	37772.884	1.87
CB6	600	2A	ST L TIE	692.551	5925114.281	37758.143	1.82
CB7	900	F51	ST7	691.846	5925043.604	37778.140	1.50
CB8	900	F51	ST7	691.932	5925066.179	37778.630	1.60
CB9	900	F51	ST8	692.380	5925047.592	37852.535	2.13
CB10	900	F51	ST8	692.389	5925068.447	37852.187	1.76
CB11	900	F51	ST9	692.329	5925050.350	37919.729	1.80
CB12	900	F38	CBMH3	692.932	5925092.411	37907.053	1.90
CB13	900	F51	ST10	692.165	5925087.759	37991.989	2.61
CB14	900	F51	ST10	692.151	5925103.809	37975.231	2.61
CB15	900	F51		692.772	5925124.071	37991.368	1.82
CB16	600	F38	CBMH4	693.069	5925149.198	37862.745	1.76
CB17	600	F38	ST15	692.491	5925121.530	37927.388	1.80
CB18	600	F38	ST15	691.980	5925103.986	37949.732	2.02
CB19	600	F38	CBMH4	692.910	5925114.132	37886.531	1.77
CB20	600	F38	ST4	692.343	5925109.684	37886.531	1.76
CBMH 2	1200	8	ST13	691.168	5925008.611	37967.888	2.8
CBMH1	1200	4A	STD	691.785	5924958.069	37661.145	2.43
CBMH3	1200	F51	ST9	692.315	5925073.779	37915.442	1.72
CBMH4	1200	F38	ST14	693.333	5925122.628	37862.214	2.9

SANITARY MANHOLE PLACEMENT INFORMATION						
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S2	5925066.987	37907.611	692.447	F80	1200	E 689.806 W 689.836
S3	5925090.807	37969.611	692.339	F80	1200	NE 689.500 SW 689.536
S4	5925121.155	38007.419	692.618	F80	1200	SW 689.306 SE 689.246 NW 689.678
S5	5925100.387	38029.067	692.276	F80	1200	NW 689.126 SE 689.096

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no.	description	date	appd
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no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale

N.T.S.

drawn by BRT
designed by BRT
checked by JK
date 03-05-2019

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.
Signature
Date 2019-05-06
PERMIT NUMBER P-4741
The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER
JAMES G. CAMPBELL
3 May 2019

AECOM
Prime Consultant

Edmonton

consultant reviewed by B. CAMPBELL
prime consultant job no

HATCH

ISSUED FOR TENDER

prime consultant reviewed by

ISL Engineering and Land Services

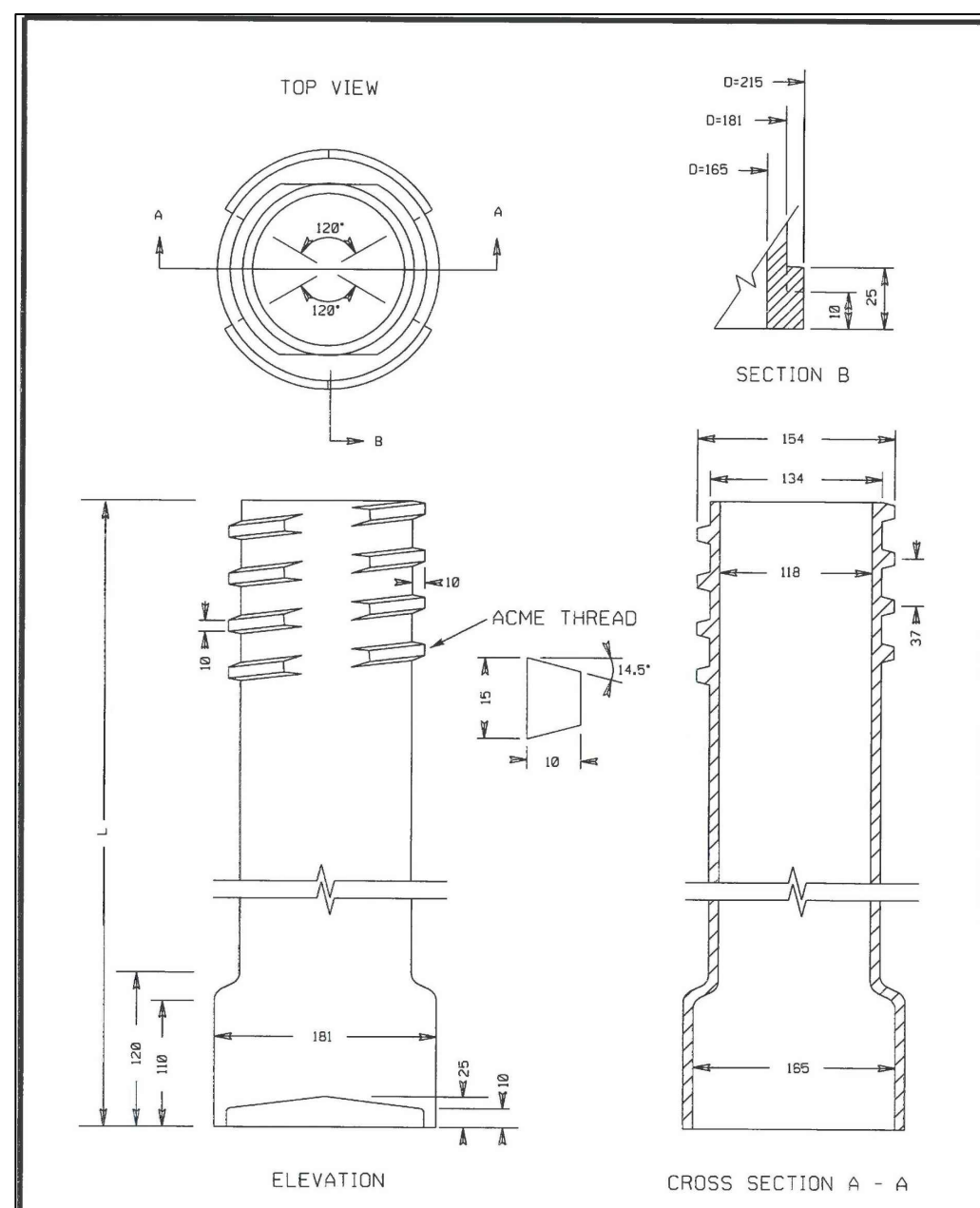
DIALOG

gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
TRANSIT CENTRE
STANDARD DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. **MWTC 191 SD02**
REV 0
SHT

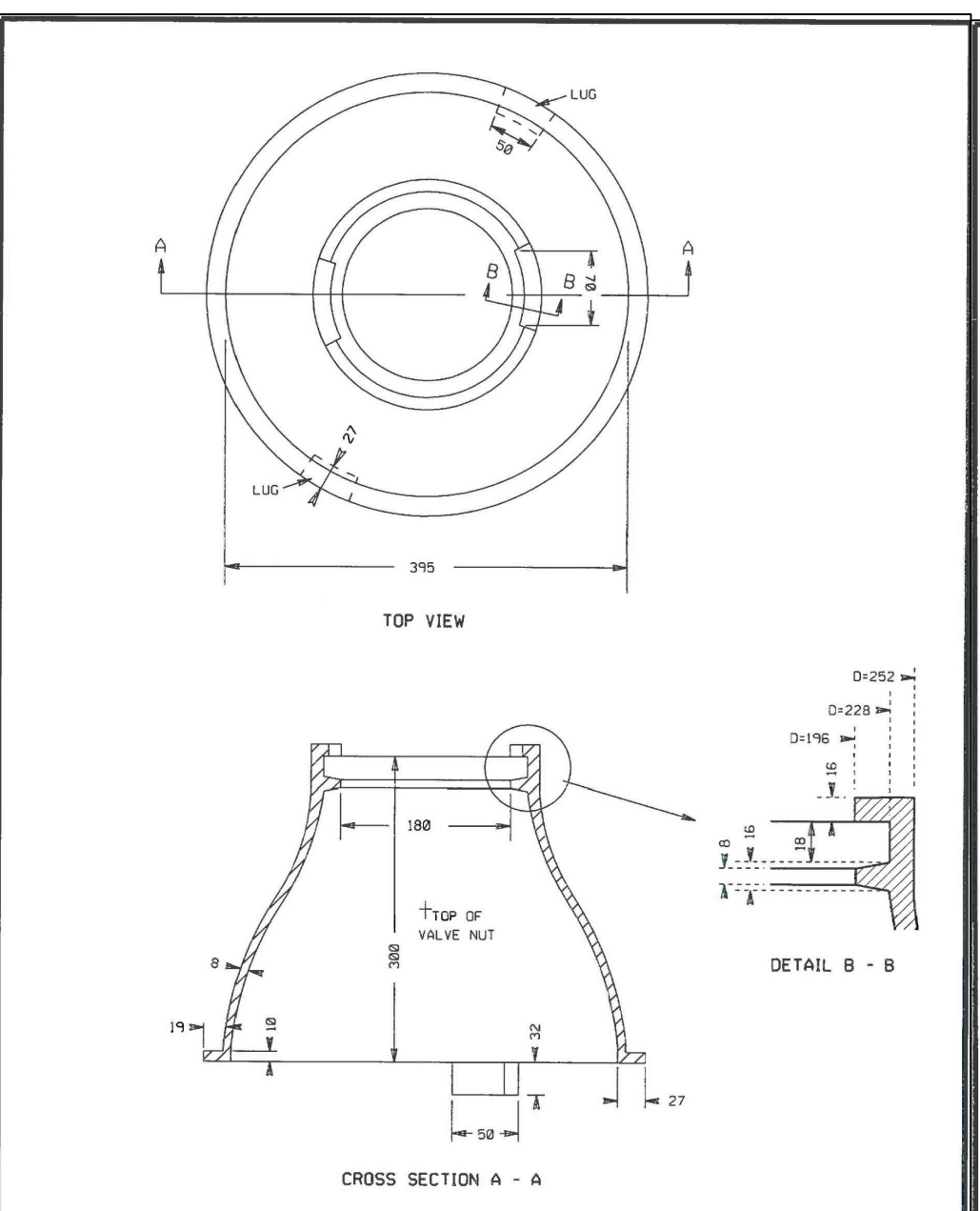


MANUFACTURING TOLERANCES:
 ± 2mm FOR INDICATED CASTING DIMENSIONS OF 190mm OR LESS
 ± 3mm FOR INDICATED CASTING DIMENSIONS OF 191mm TO 280mm
 ± 4mm FOR INDICATED CASTING DIMENSIONS OF 281mm TO 380mm

NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
 2. LENGTH SIZES ARE 300, 450 AND 600mm.
 3. MINIMUM 300mm OF THREADS AVAILABLE FROM TOP SECTION TO BOTTOM SECTION FOR RASING AND LOWERING.

VALVE CASING BOTTOM SECTION

APPROVED: [Signature] DATE: MARCH 2017
 DRAWN BY: [Signature] DATE: MARCH 2017
 CHECKED BY: [Signature] DATE: MARCH 2017
 SCALE: N.T.S.
 DRAWING NUMBER: 2512-04
 REVISION: 0

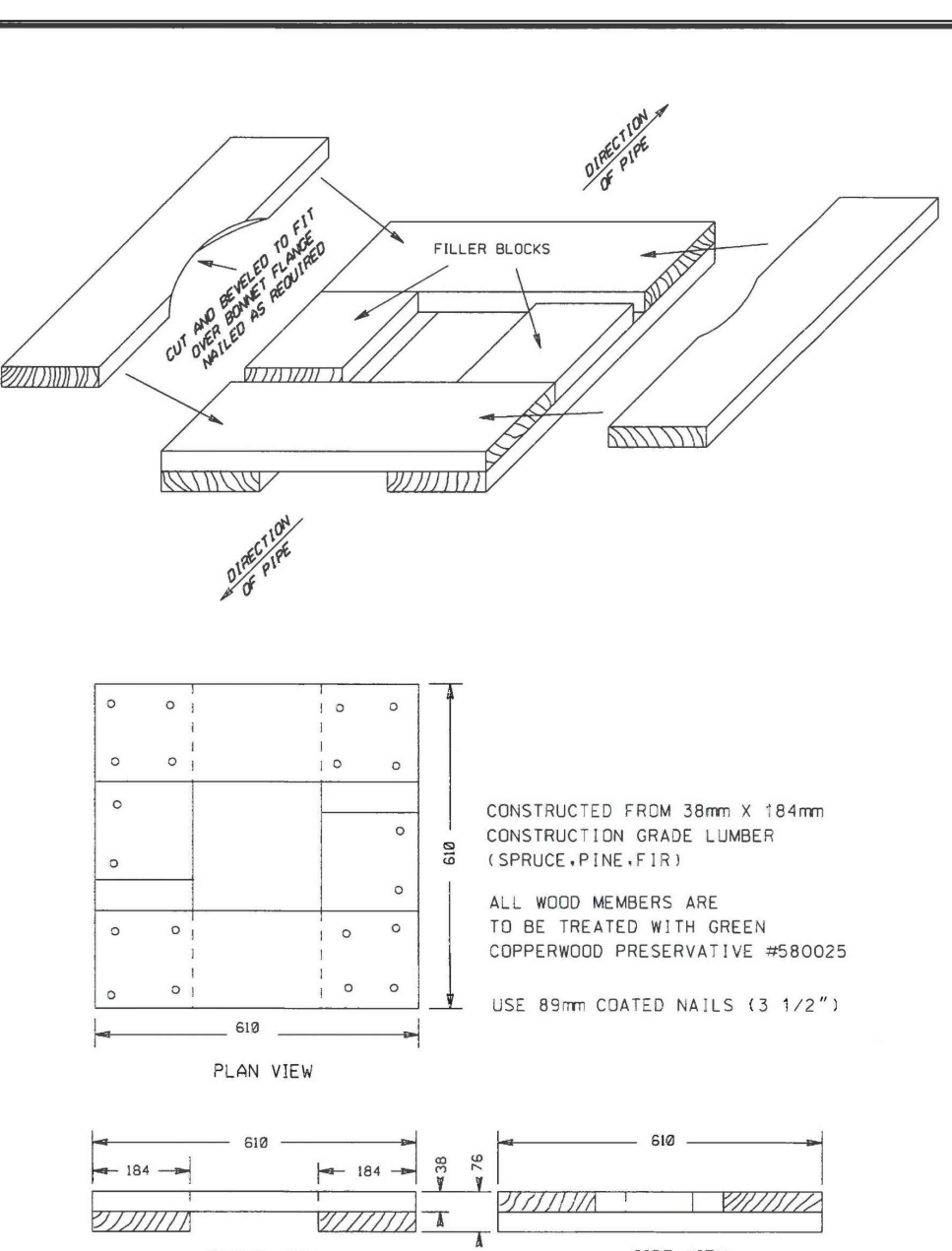


MANUFACTURING TOLERANCES:
 ± 2mm FOR INDICATED CASTING DIMENSIONS OF 190mm OR LESS
 ± 3mm FOR INDICATED CASTING DIMENSIONS OF 191mm TO 280mm
 ± 4mm FOR INDICATED CASTING DIMENSIONS OF 281mm TO 380mm

NOTES:
 1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SPECIFIED.
 2. MATERIAL: DUCTILE IRON TO ASTM 536 GRADE 60-40-18.

VALVE BONNET

APPROVED: [Signature] DATE: MARCH 2017
 DRAWN BY: [Signature] DATE: MARCH 2017
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 SCALE: N.T.S.
 DRAWING NUMBER: 2512-05
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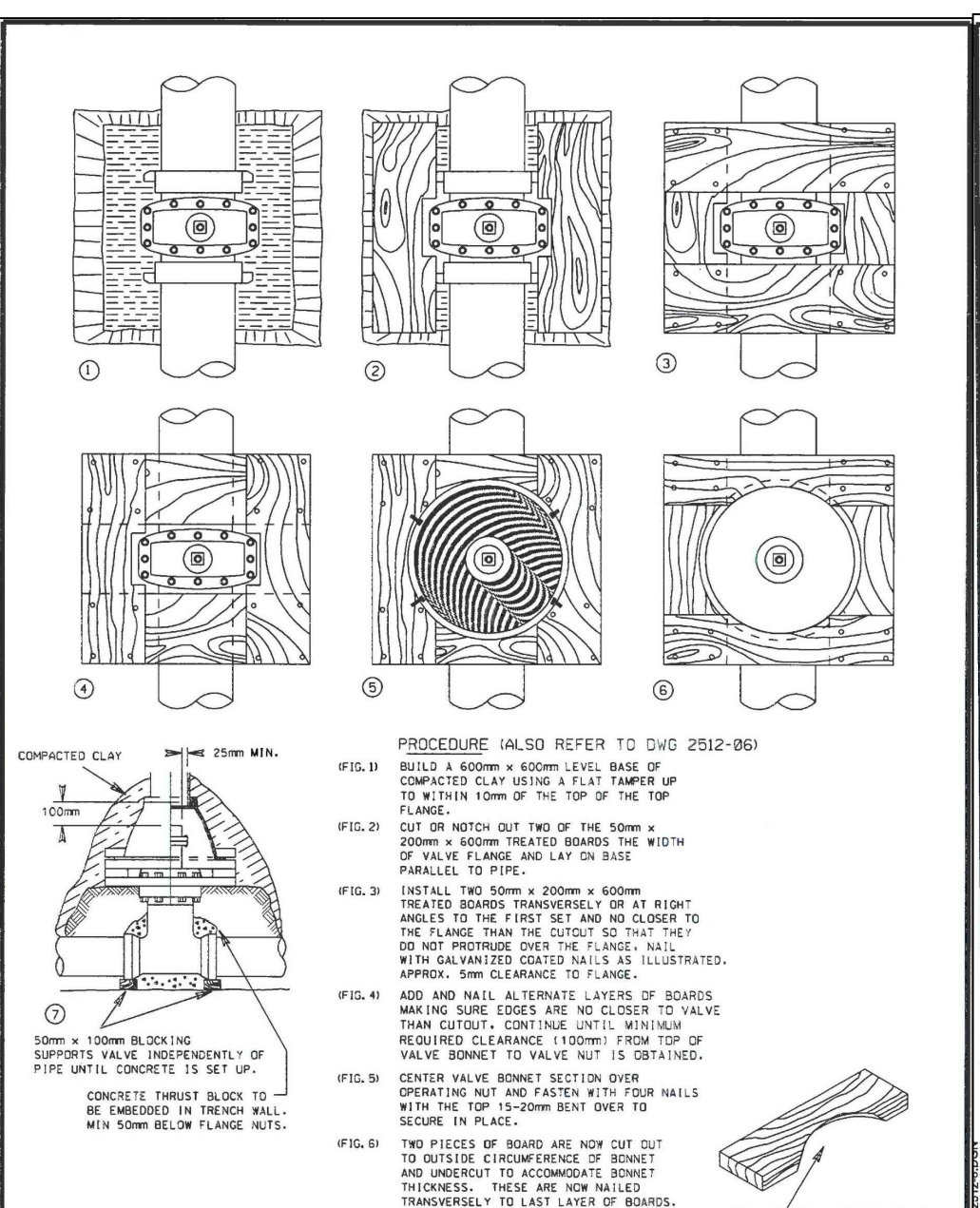
CONSTRUCTED FROM 38mm X 184mm CONSTRUCTION GRADE LUMBER (SPRUCE-PINE-FIR)

ALL WOOD MEMBERS ARE TO BE TREATED WITH GREEN COPPERWATER PRESERVATIVE (#580025)

USE 89mm COATED NAILS (3 1/2")

VALVE BOX MATERIAL DETAIL

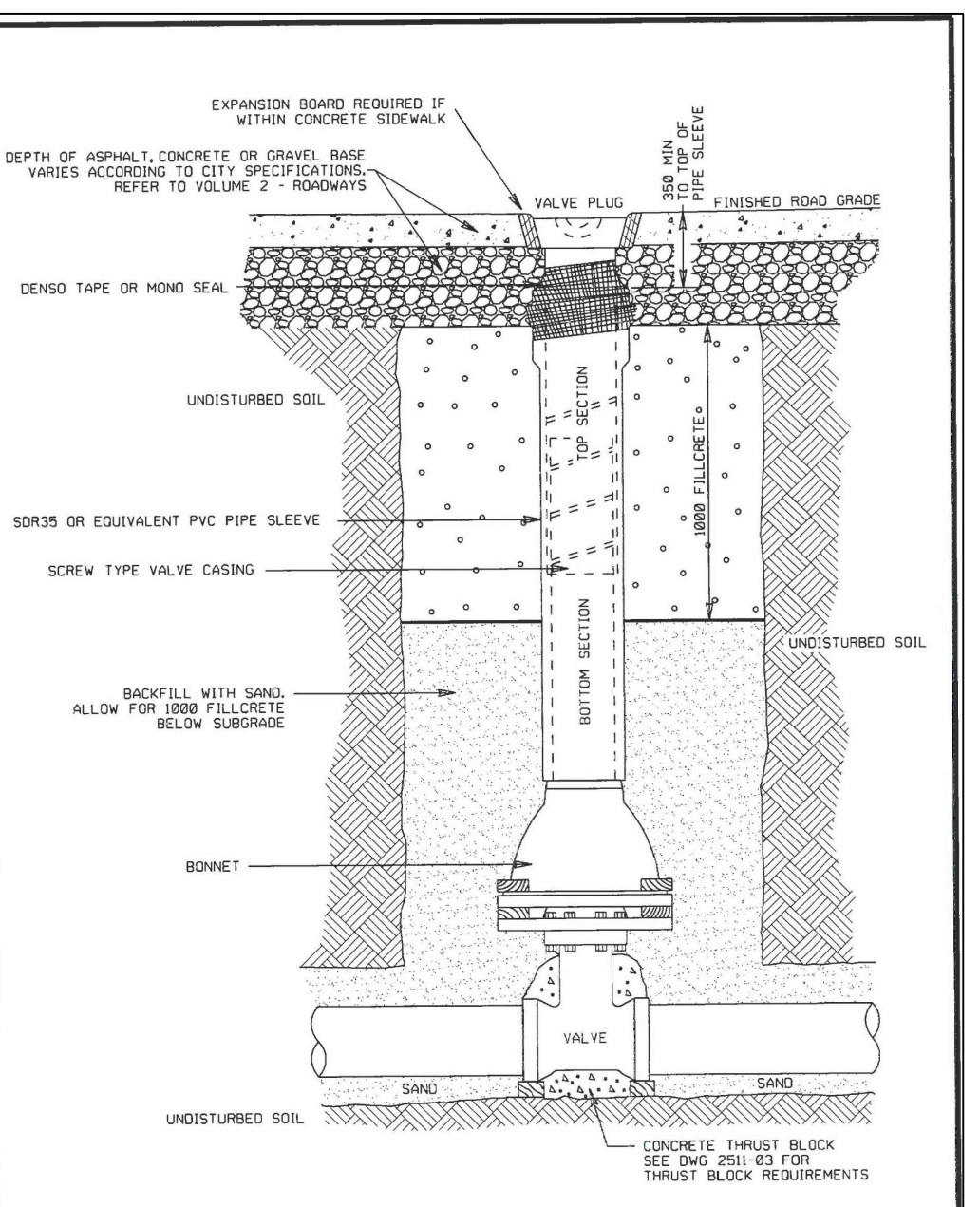
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 CHECKED BY: [Signature] DATE: MARCH 2017
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 DRAWING NUMBER: 2512-06
 REVISION: 0



PROCEDURE (ALSO REFER TO DWG 2512-06):
 1. BUILD 4 800mm X 800mm LEVEL BASE OF COMPACTED CLAY USING A FLAT TAMER UP TO WITHIN 100mm OF THE TOP OF THE TOP FLANGE.
 2. CUT OR NOTCH OUT TWO OF THE 500mm X 200mm X 400mm TREATED BOARDS THE WIDTH OF FLANGE TO FIT AND LAY ON BASE PARALLEL TO PIPE.
 3. INSTALL TWO 500mm X 200mm X 600mm TREATED BOARDS TRANSVERSELY OR AT RIGHT ANGLES TO THE FIRST SET AND NO CLOSER TO THE FLANGE THAN THE NOTCH CUT IN THE BOARD WITH GUARANTEED GATE VALVE IS ILLUSTRATED. APPROX. 5mm CLEARANCE TO FLANGE.
 4. ADD AND NAIL ALTERNATE LAYERS OF BOARDS MAKING SURE EDGES ARE NO CLOSER TO VALVE THAN 50mm. CONTINUE UNTIL MINIMUM REQUIRED CLEARANCE (150mm) FROM TOP OF VALVE BONNET TO VALVE IS OBTAINED.
 5. CENTER VALVE BONNET SECTION OVER OPERATING NOT AND FASTEN WITH FOUR NAILS WITH THE TOP 15-20mm BEAT OVER TO SECURE IN PLACE.
 6. TWO PIECES OF BOARD ARE NOW CUT OUT TO FIT THE CIRCUMFERENCE OF BONNET TRANSVERSELY TO LAST LAYER OF BOARDS. APPROPRIATE LENGTH OF BOARD AND TOP SECTION OF CASING ARE NOW INSTALLED AND BACKFILLED WITH COMPACTED CLAY TO ABOVE JOINT.

VALVE BOX CONSTRUCTION DETAIL

APPROVED: [Signature] DATE: MARCH 2017
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 CHECKED BY: [Signature] DATE: MARCH 2017
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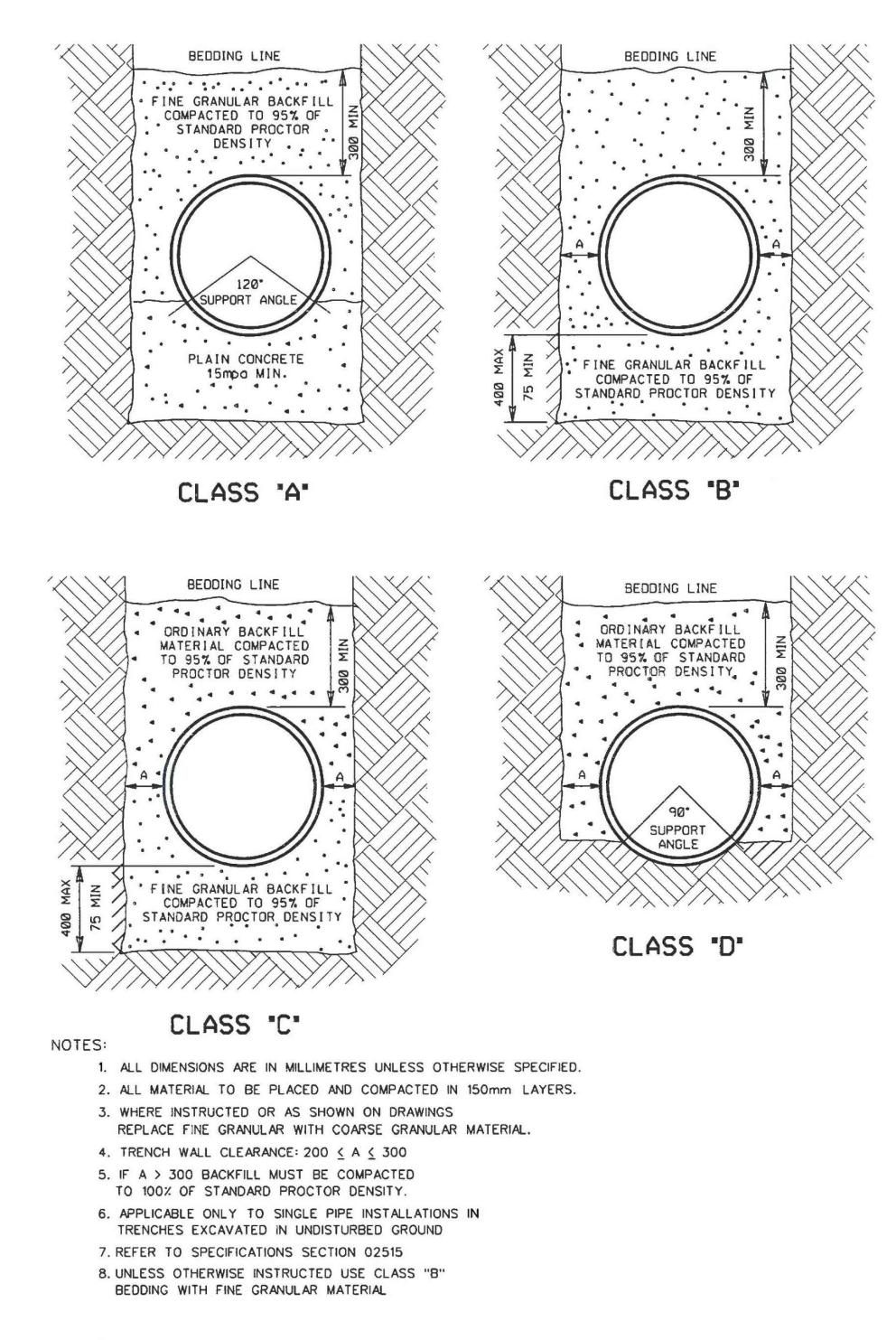


EXPANSION BOARD REQUIRED IF WITHIN CONCRETE SIDEWALK

DEPTH OF ASPHALT, CONCRETE OR GRAVEL BASE VARIES ACCORDING TO CITY SPECIFICATIONS. REFER TO VOLUME 2 - ROADWAYS

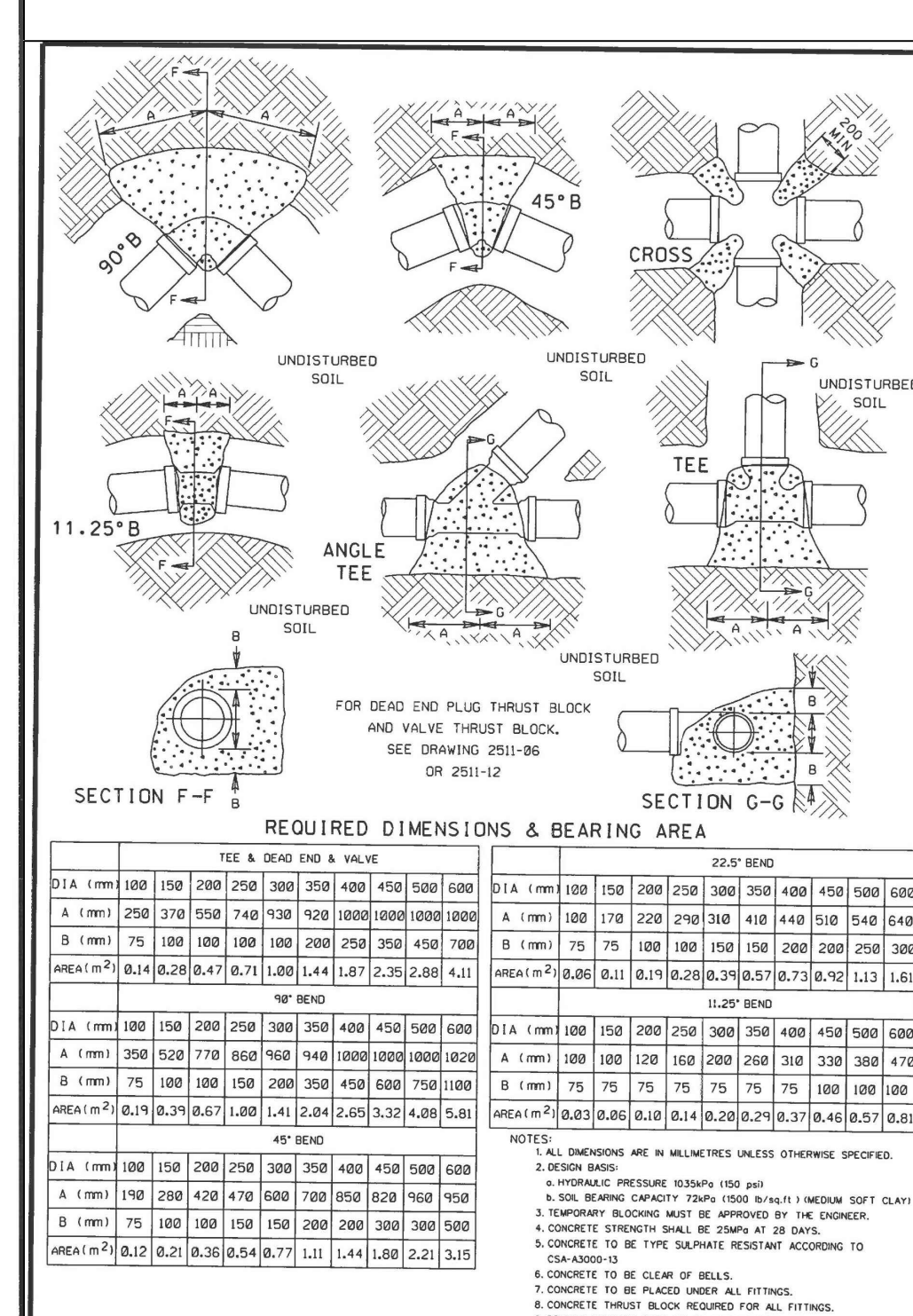
VALVE CASING DETAIL FOR FILLCRETE BACKFILL

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 DRAWN BY: [Signature] DATE: MARCH 2017
 CHECKED BY: [Signature] DATE: MARCH 2017
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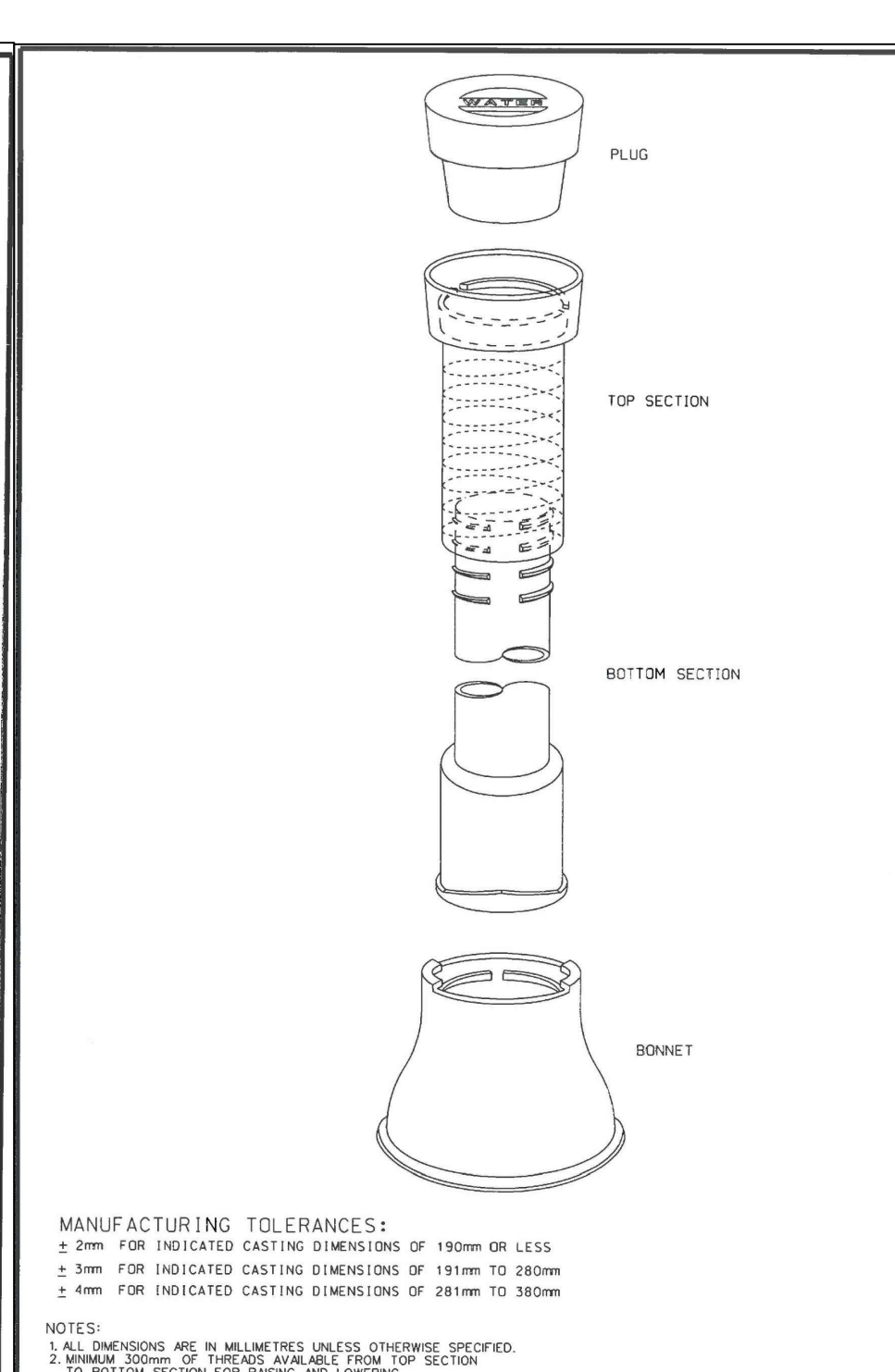
STANDARD TRENCH BEDDING FOR CIRCULAR PIPE

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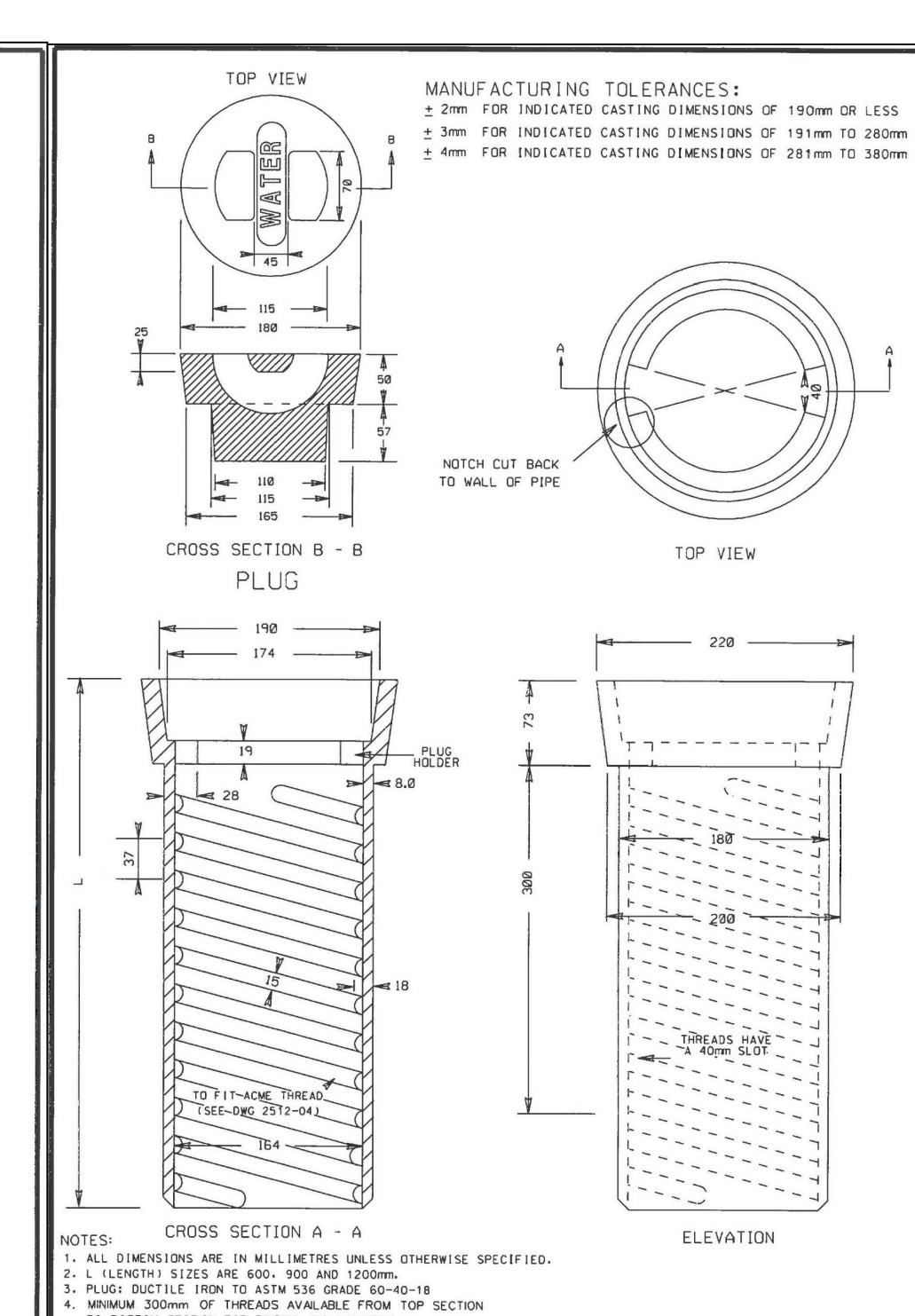
HORIZONTAL CONCRETE THRUST BLOCK DETAILS

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 REVISION: 0



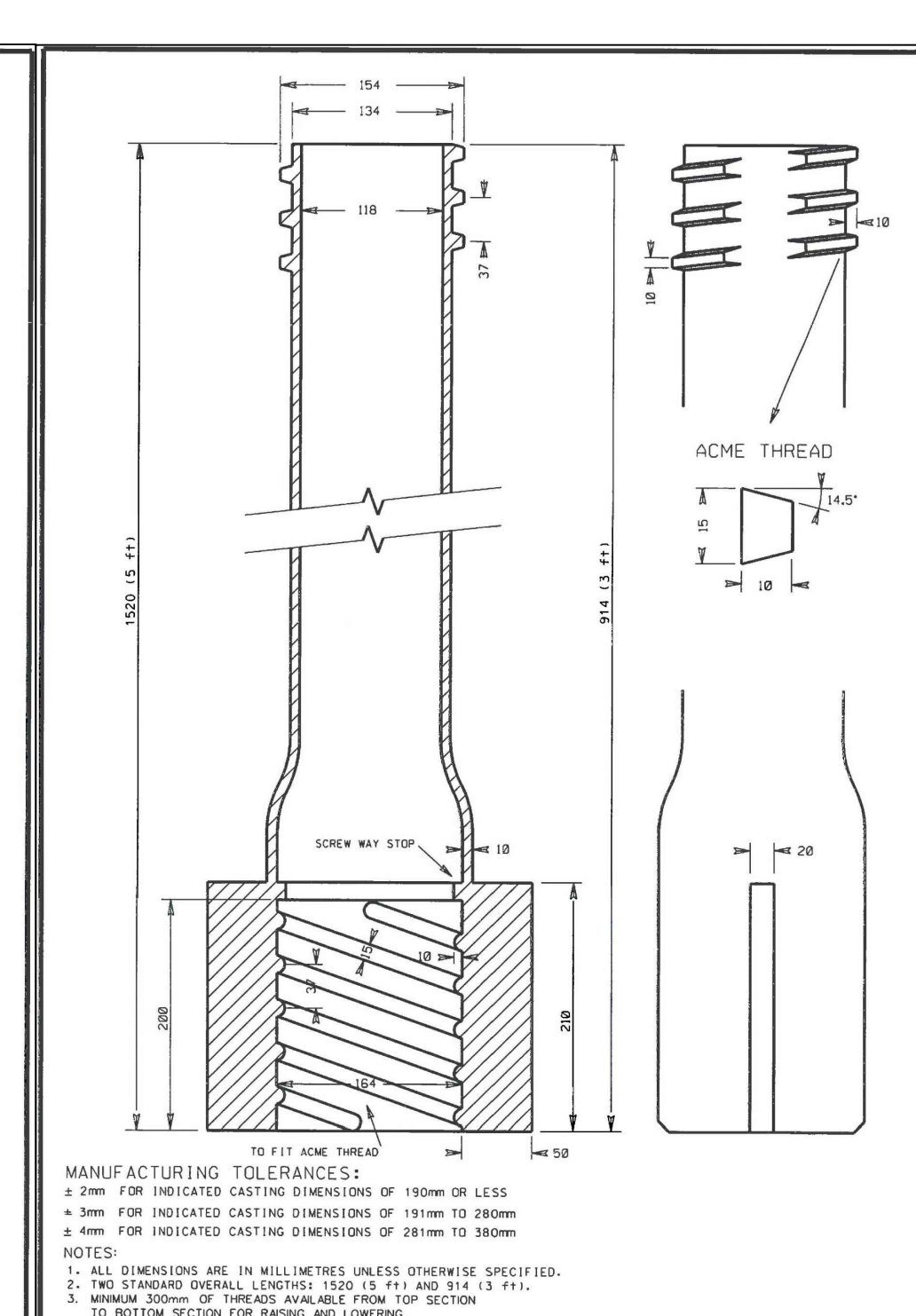
VALVE CASING

APPROVED: [Signature] DATE: MARCH 2017
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 CHECKED BY: [Signature] DATE: MARCH 2017
 SCALE: N.T.S.
 DRAWING NUMBER: 2512-01
 REVISION: 0



VALVE CASING TOP SECTION AND PLUG

APPROVED: [Signature] DATE: MARCH 2017
 DRAWN BY: [Signature] DATE: MARCH 2017
 CHECKED BY: [Signature] DATE: MARCH 2017
 SCALE: N.T.S.
 DRAWING NUMBER: 2512-02
 REVISION: 0



VALVE CASING MIDDLE EXTENSIONS

APPROVED: [Signature] DATE: MARCH 2017
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 CHECKED BY: [Signature] DATE: MARCH 2017
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 DRAWING NUMBER: 2512-03
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no.	description	date	checked
	revisions		

ISL Engineering and Land Services
 Consultant

A1 bar scale

N.T.S.

drawn by: BRT
 designed by: BRT
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3 May 2019

consultant job no: 14677

PROFESSIONAL ENGINEER
 B. CAMPBELL
 3 May 2019

AECOM
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Edmonton

prime consultant job no

HATCH

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prime consultant reviewed by

ISL Engineering and Land Services

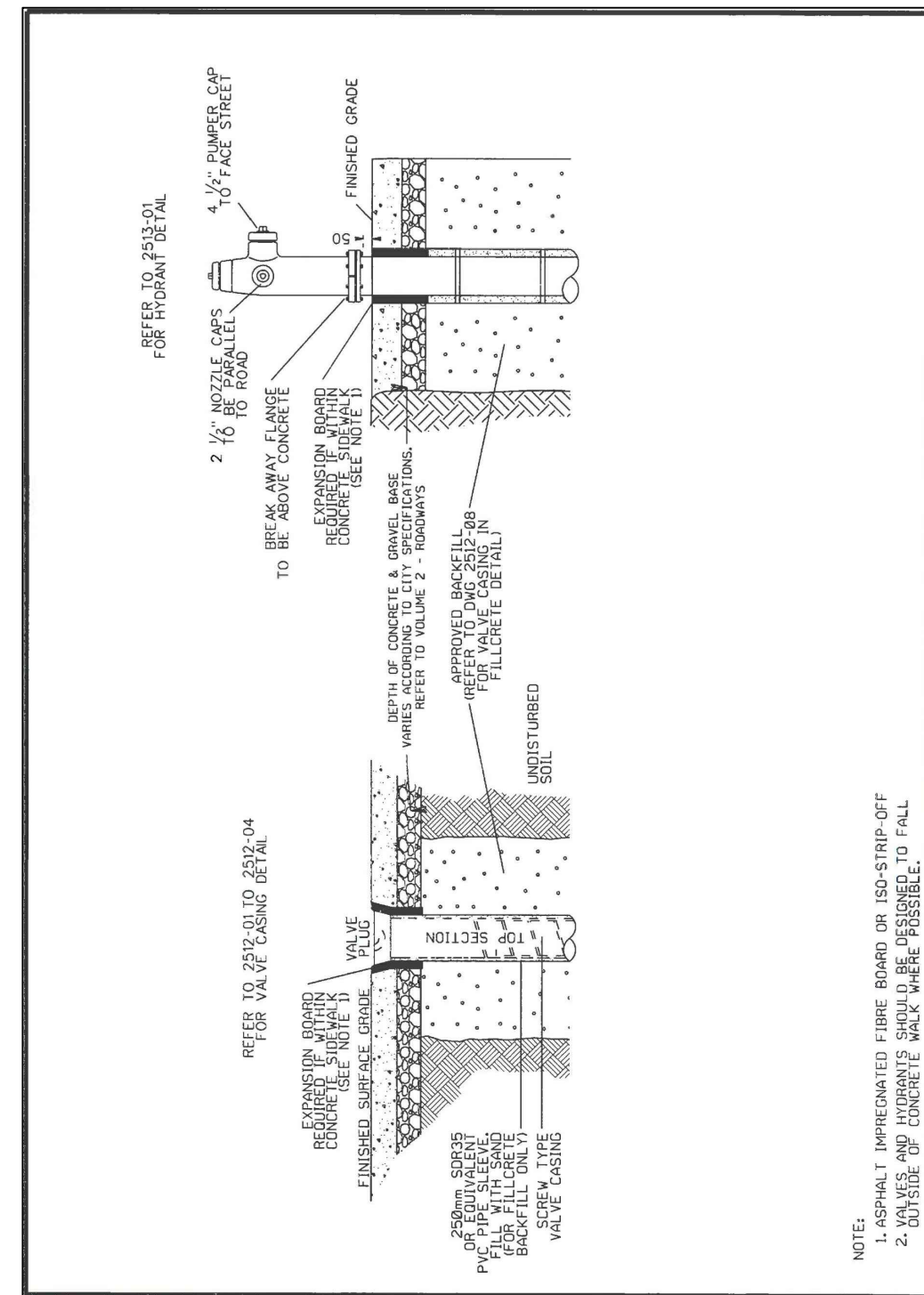
DIALOG

gpc architecture

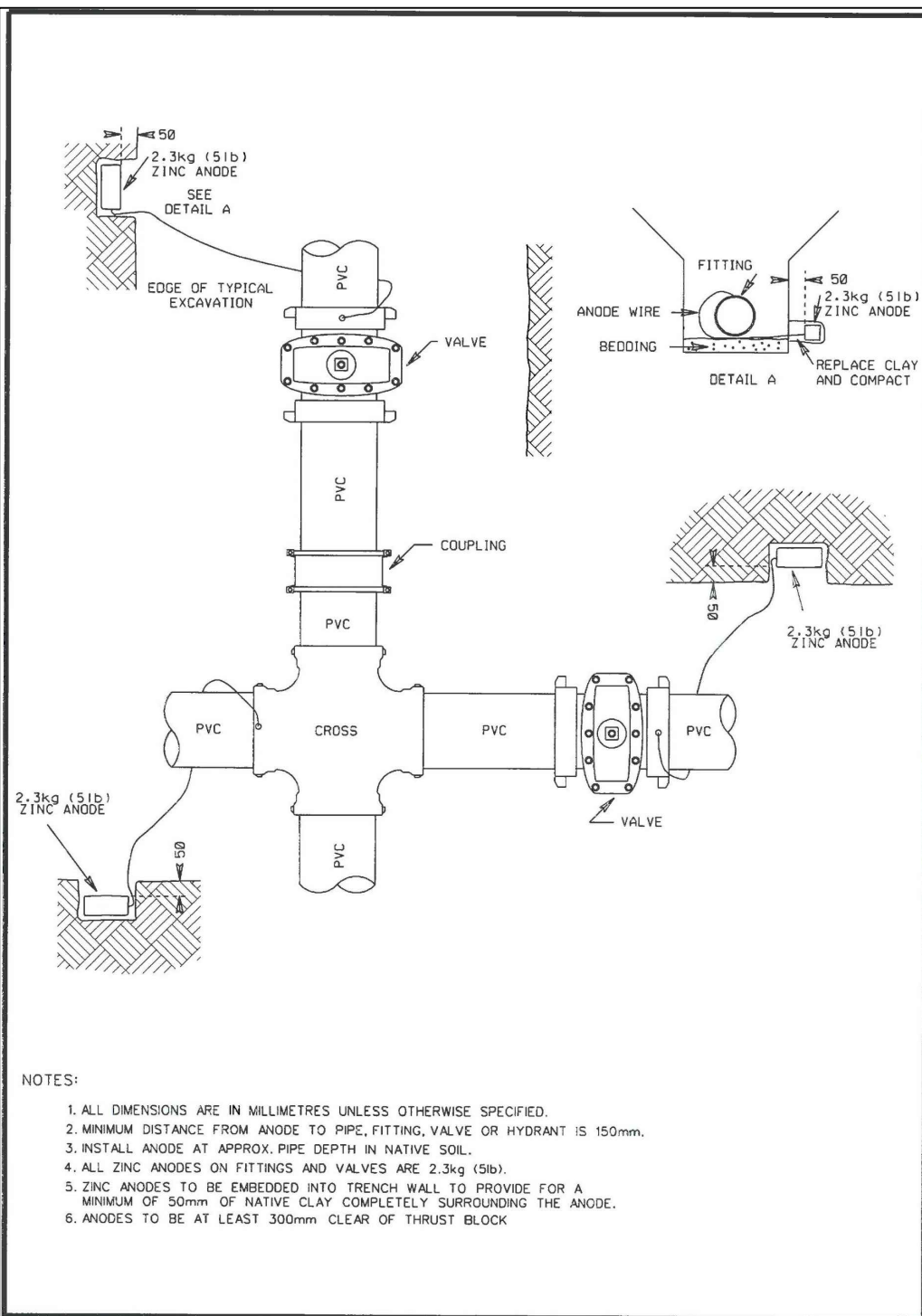
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VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

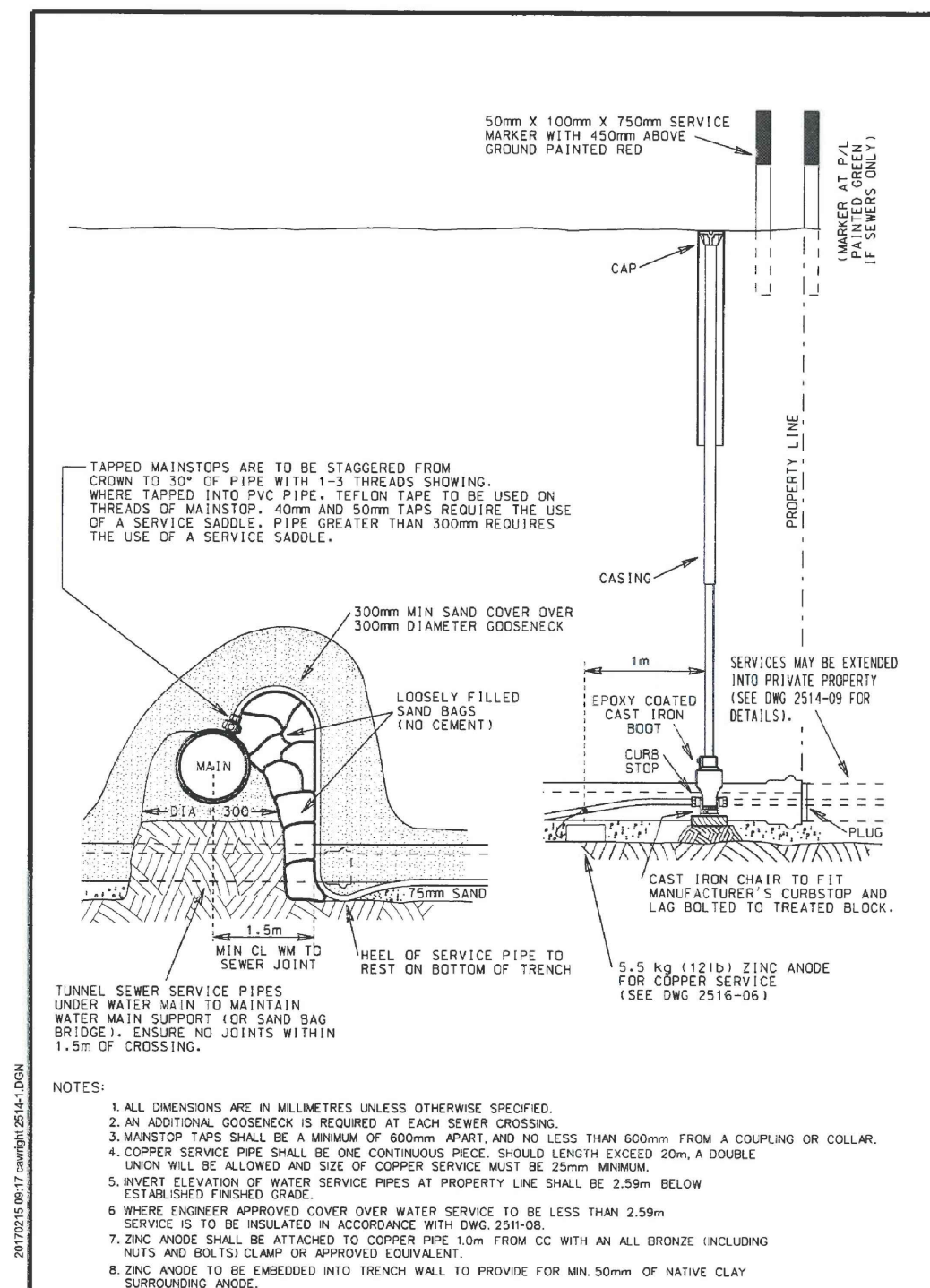
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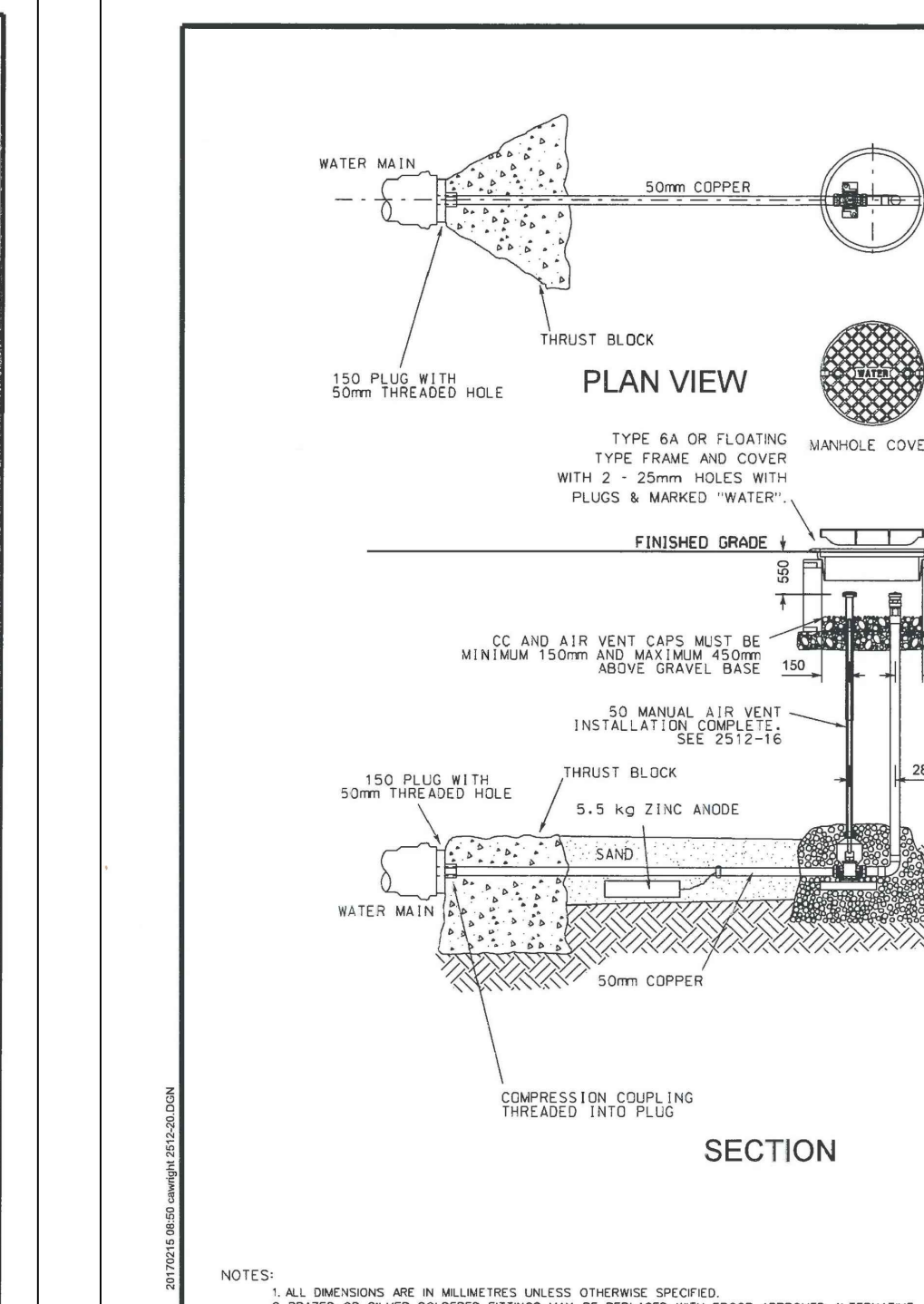
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APPROVED MARCH 2017 SCALE N T S	DRAWN BY DWN CHECKED BY DAVID M.	APPROVED <i>Susan Ol</i> DIRECTOR WATER DISTRIBUTION AND TRANSMISSION	DRAWING NUMBER 2512-21 REVISION 0



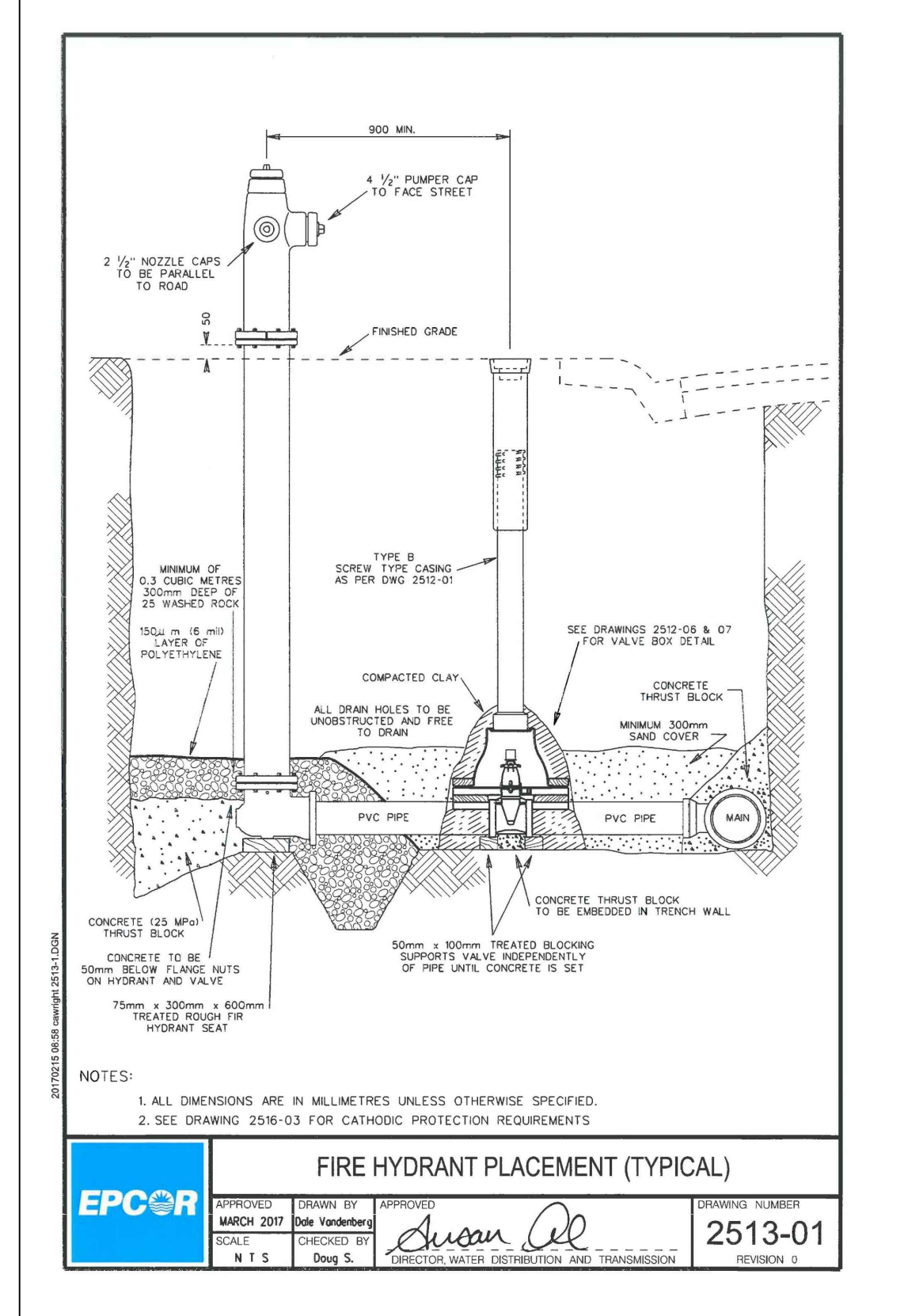
EPCOR		TYPICAL ANODE INSTALLATION FOR IRON FITTINGS USED WITH PVC WATER MAINS	
APPROVED MARCH 2017 SCALE N T S	DRAWN BY DWN CHECKED BY DAVID M.	APPROVED <i>Susan Ol</i> DIRECTOR WATER DISTRIBUTION AND TRANSMISSION	DRAWING NUMBER 2516-04 REVISION 0



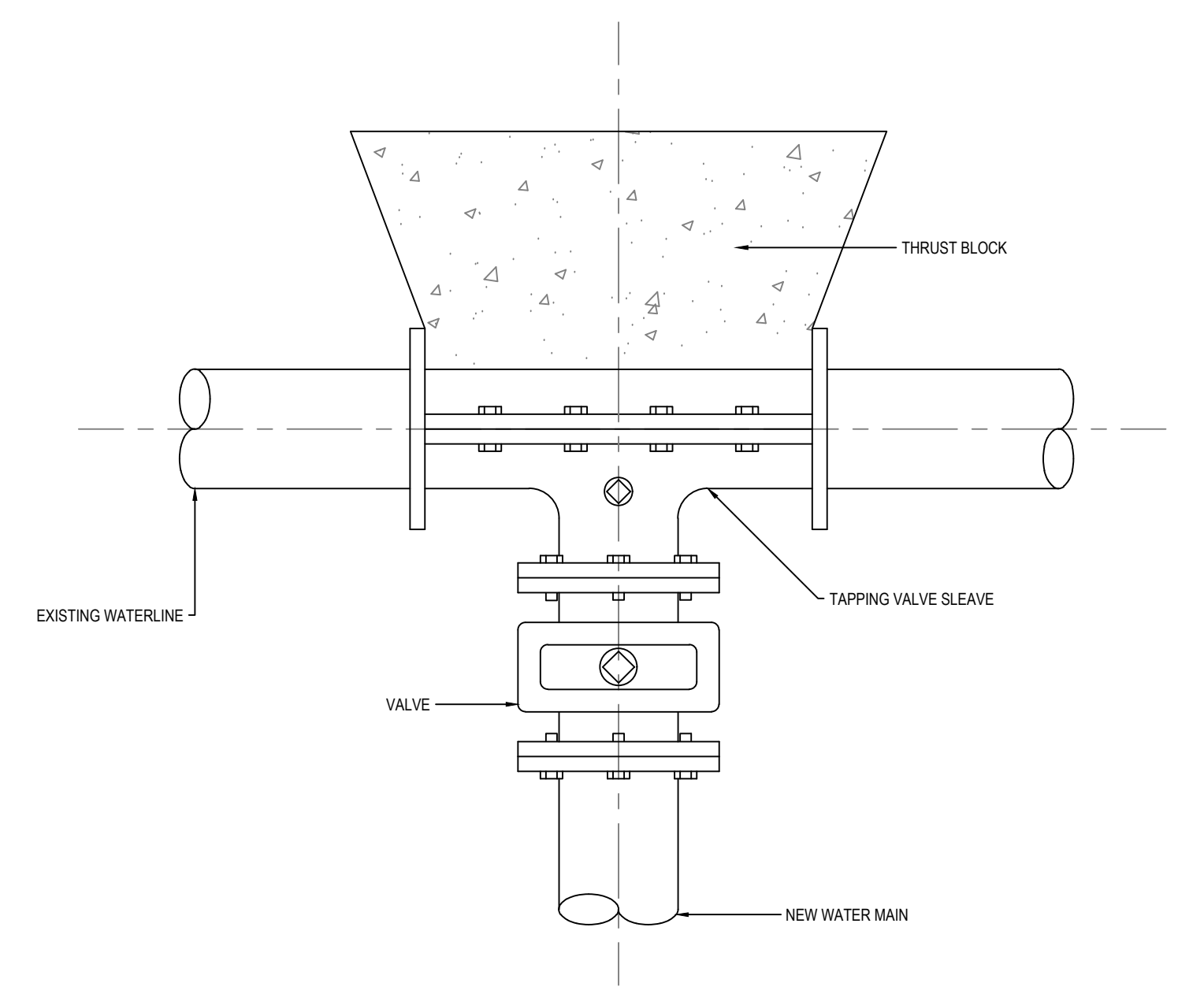
EPCOR		50mm AND SMALLER COPPER WATER SERVICE	
APPROVED MARCH 2017 SCALE N T S	DRAWN BY DWN CHECKED BY DAVID M.	APPROVED <i>Susan Ol</i> DIRECTOR WATER DISTRIBUTION AND TRANSMISSION	DRAWING NUMBER 2514-01 REVISION 0



EPCOR		FLUSH POINT IN ROADWAY (SHALLOW CHAMBER)	
APPROVED MARCH 2017 SCALE N T S	DRAWN BY DWN CHECKED BY DAVID M.	APPROVED <i>Susan Ol</i> DIRECTOR WATER DISTRIBUTION AND TRANSMISSION	DRAWING NUMBER 2512-20 REVISION 0



EPCOR		FIRE HYDRANT PLACEMENT (TYPICAL)	
APPROVED MARCH 2017 SCALE N T S	DRAWN BY DWN CHECKED BY DAVID M.	APPROVED <i>Susan Ol</i> DIRECTOR WATER DISTRIBUTION AND TRANSMISSION	DRAWING NUMBER 2513-01 REVISION 0



EPCOR		TAPPING VALVE SLEEVE DETAIL	
NOTE: 1. EXISTING WATERLINE SURFACE SHALL BE CLEANED PRIOR TO ATTACHING SLEEVE 2. PRESSURE TEST AND TAP SHALL BE MADE IN PRESENCE OF AN AUTHORIZED REPRESENTATIVE 3. TAP SHALL BE MADE NO CLOSER THAN 600mm FROM THE NEAREST JOINT OR TAP 4. PRIOR TO THE TAP, THE WATER MAIN ISOLATING VALVES MUST BE LOCATED AND CONTINGENCY PLANS MADE FOR THEIR IMMEDIATE SHUT OFF SHOULD A FAILURE OCCUR.			

D:\OULIN\May 3, 2019\111480014677_VALLEY_LINE_LRT_CONSTRUCTION\CADD\20_DRAWING\MWTC\DRAINAGE\MWTC P191 SD03.DWG

0	ISSUED FOR TENDER	03-05-19	JK
no.	description	date	appd
	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services	Consultant
A1 bar scale	N.T.S.
drawn by BRT	designed by BRT
checked by JK	date 03-05-2019

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.
Signature
Date 2019-05-06
PERMIT NUMBER: P-4741
The Association of Professional Engineers and Geoscientists of Alberta

PROFESSIONAL ENGINEER
JAMES G. CAMPBELL
3 May 2019

AECOM
Prime Consultant

Edmonton

HATCH

ISSUED FOR TENDER

ISL Engineering and Land Services

DIALOG

gpc architecture

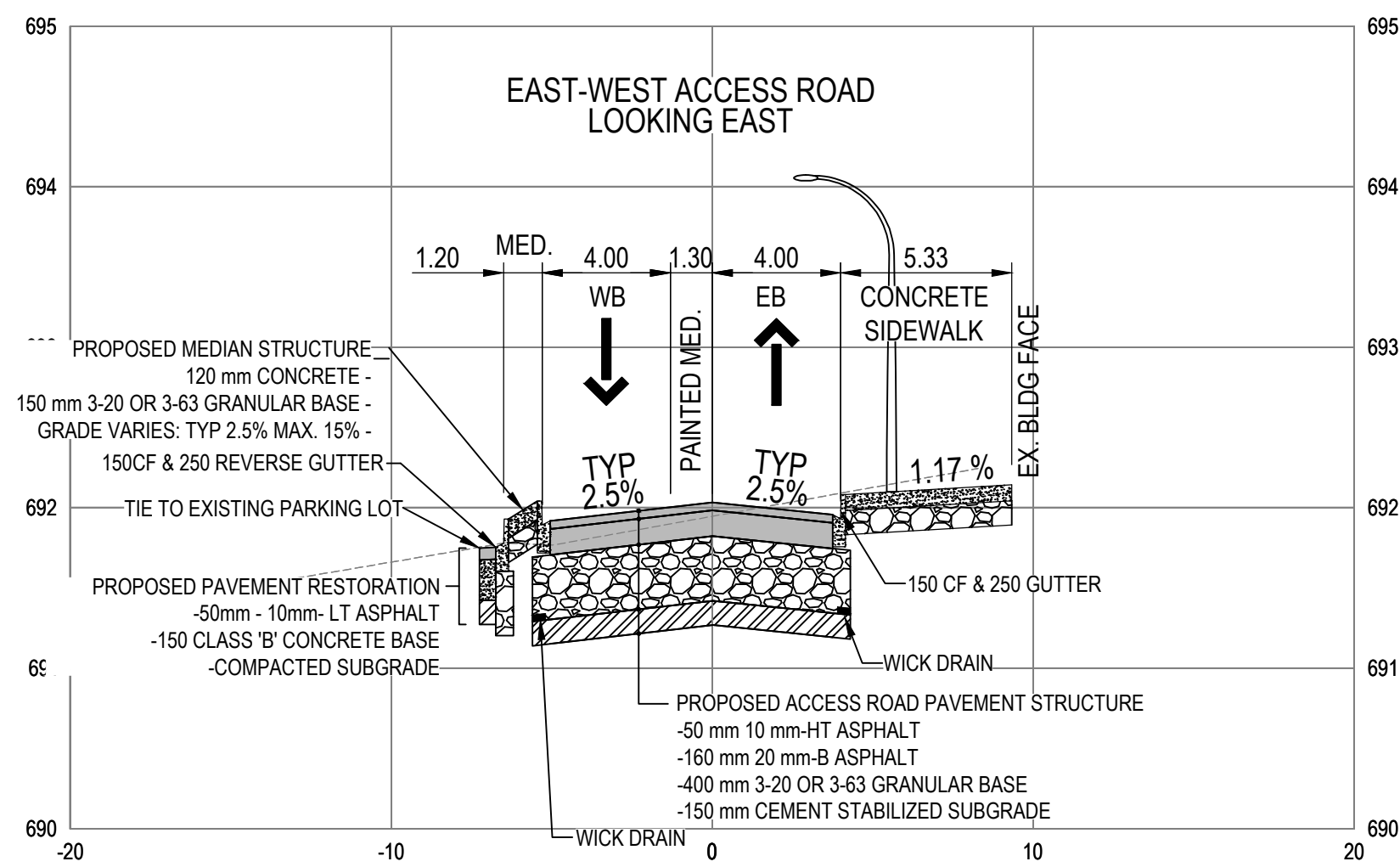
drawing title
**MILL WOODS TRANSIT CENTRE
TRANSIT CENTRE
STANDARD DETAILS**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

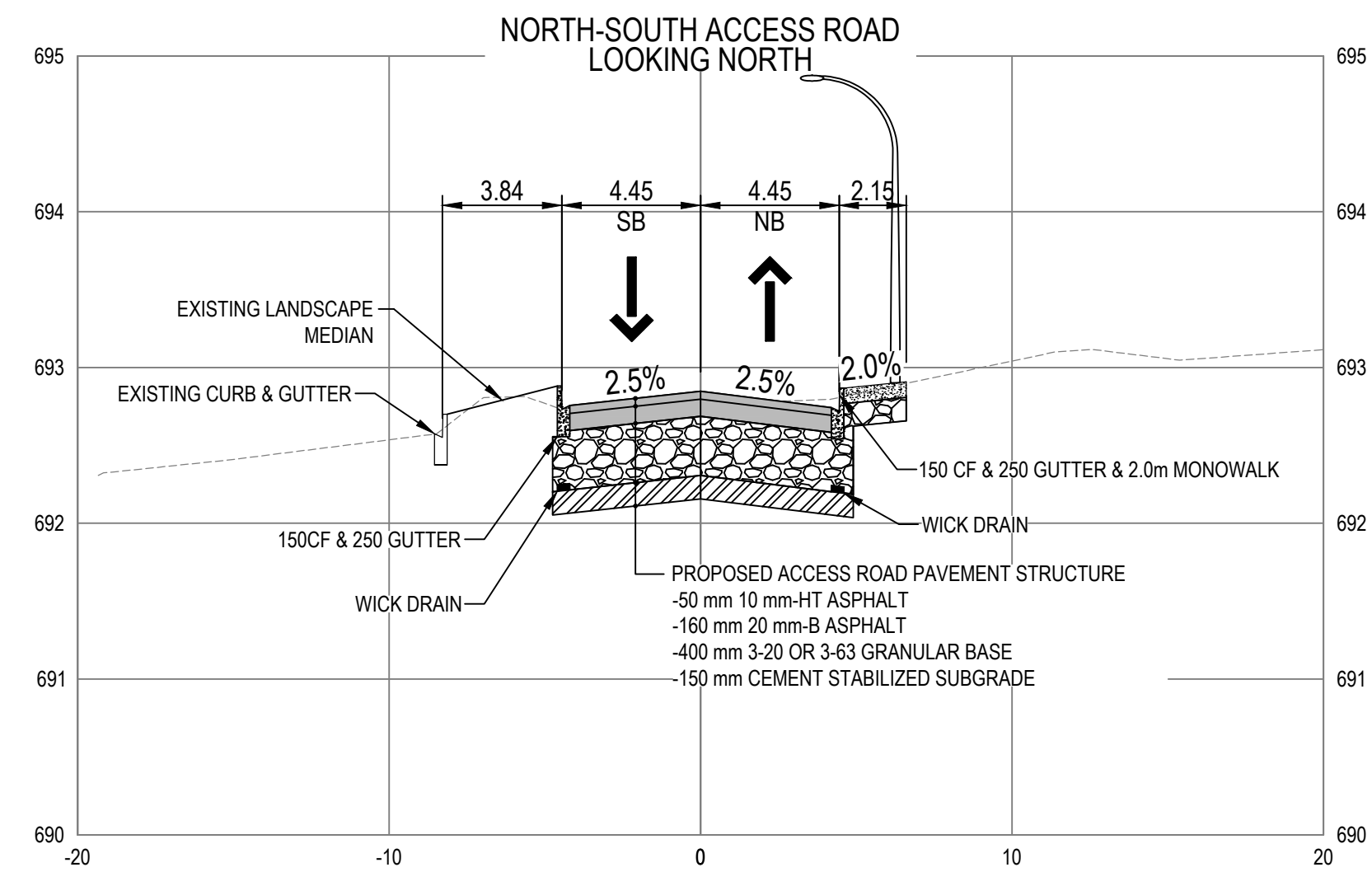
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MWTC 191 SD04

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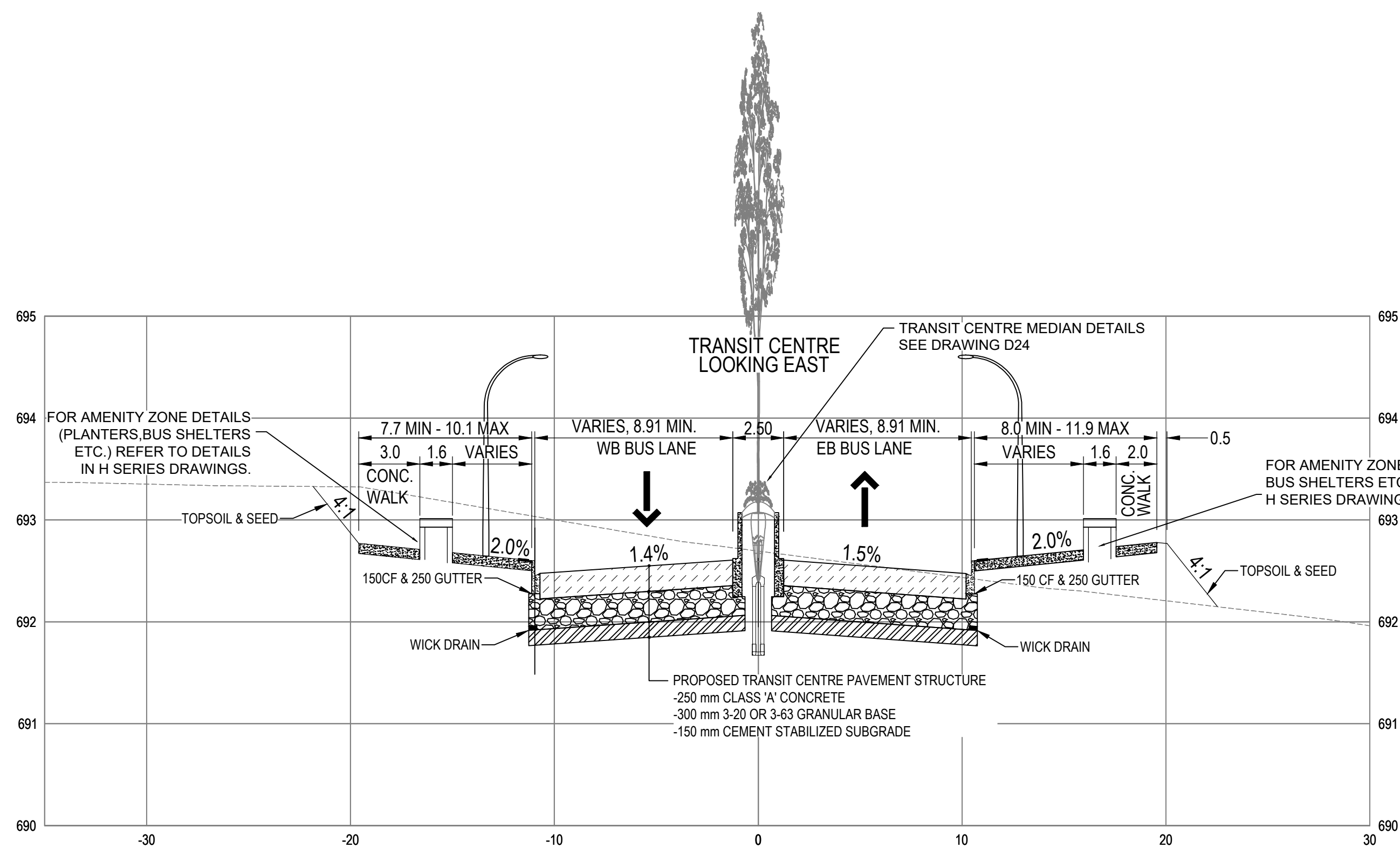
RMULLER: May 6, 2019 - J:\1460014677_VALLEY_LINE_LRT_DE_CONSTRUCTION02_CADD\20_DRAFTING\202_MWTC\212_DETAILED DESIGN\MWTC 191_X01.DWG



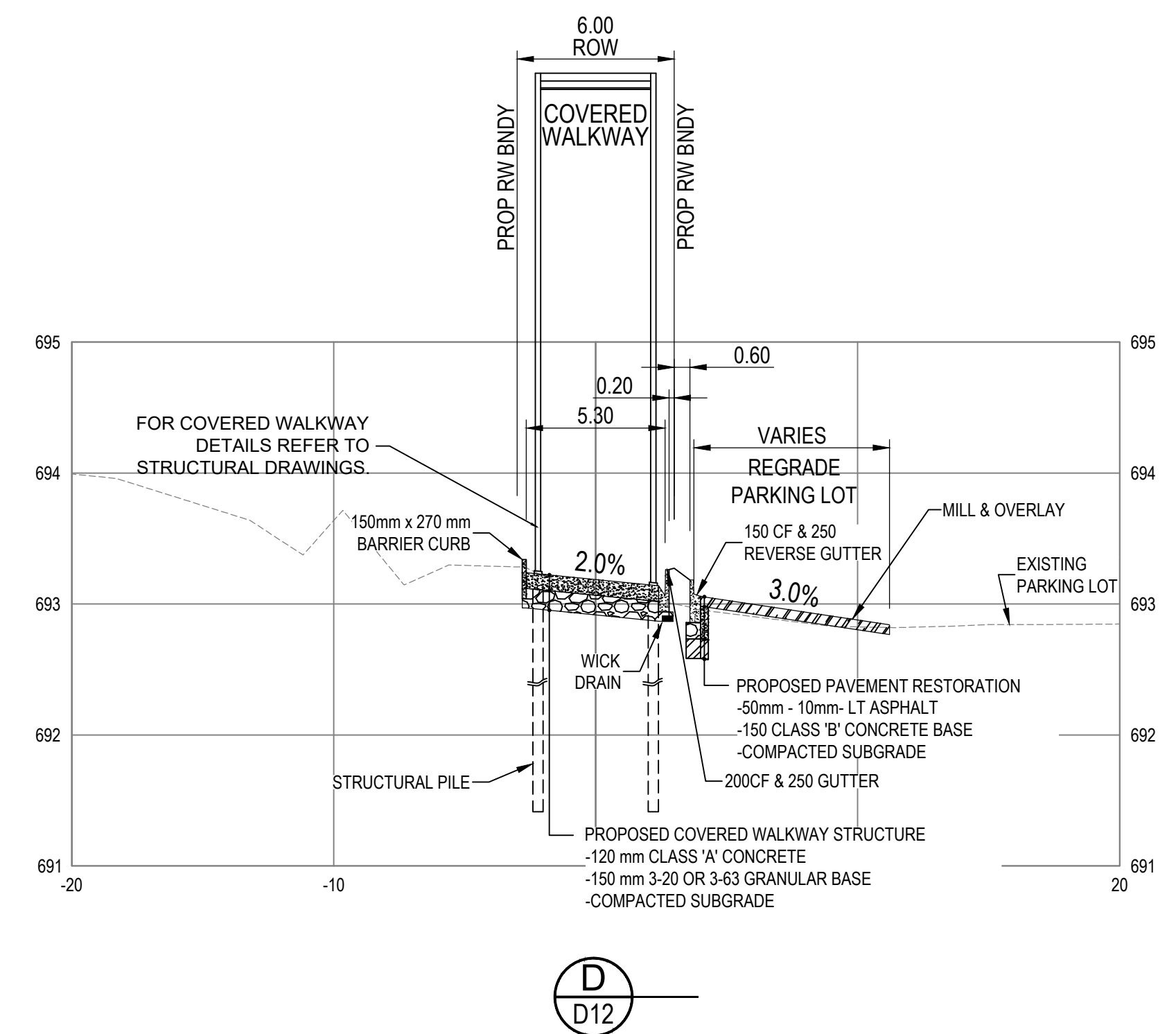
A
D11



B
D12



C
D12



D
D12

NOTE: ALL DRAWINGS ARE PRINTED AT HALF SCALE WHEN IN 11" x 17" OR A3 FORMAT

A	ISSUED FOR TENDER	03-05-19	D.M.
no.	description	date	appd
	issue data		
no.	description	date	checked
	revisions		

ISL Engineering and Land Services
Consultant

A1 bar scale
1:200m

drawn by
R. MULLER

designed by
K. LAU

checked by
D. MARTIN

date
03-05-2019

PERMIT TO PRACTICE
ISL Engineering and Land Services Ltd.
Signature
Date 2019-05-06
PERMIT NUMBER: P 4741
The Association of Professional Engineers and Geoscientists of Alberta

consultant job no
14677

Professional Engineering
2019-05-06

consultant reviewed by
B. CAMPBELL

AECOM
Prime Consultant

Edmonton

prime consultant job no

HATCH

ISSUED FOR TENDER

prime consultant reviewed by

ISL Engineering and Land Services

DIALOG

gpc architecture

drawing title
MILL WOODS TRANSIT CENTRE
TYPICAL CROSS SECTION

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 X01

REV 0
SHT

BUILDING CODE SYNOPSIS		EXTERIOR WALL ASSEMBLIES		CURTAIN WALL ASSEMBLIES		PARAPET WALL ASSEMBLIES		FIRE EXTINGUISHER DETAIL																																																																																																																																																																																																																																							
ZONING BYLAW COMPLIANCE REVIEW The current zoning of the site is OC1(99), but the transit centre and walkway land will be transferred to Road Right-of-Way. BUILDING CODE SUMMARY An appropriate fire and life safety solutions has been achieved by adhering to the Alberta Building Code in all instances except one. The exemption request is to relax the requirement for barrier free accessibility for ETS staff washrooms. ETS has confirmed that bus drivers must be able-bodied to operate any ETS vehicle, thus negating the need for barrier free stalls. A Standata has been released that justifies this condition. AUTHORITIES HAVING JURISDICTION 1. The City of Edmonton 2. Safety Codes Council, the Province of Alberta SYNOPSIS SUMMARY PROJECT DESCRIPTION 1. Building Area: 320 m ² (public heated area = 170 m ²) 2. Number of Storeys: 1 3. Sprinklered: No 4. Fire Alarm System: No 5. Occupancy: Group A, Division 2, One Storey (ABC 2014, 3.2.2.28) 6. Occupant Load: Occupant Load based on standing space of 0.6 occupant per sq.m. (ABC 2014 Table 3.1.17.1). 170 / 0.6 = 283 occupants, which would not be possible due to fixed seats, waste receptacles and other objects. However, even with an occupant load of 283 people, the two east and west exit doors at 6.1m per person for doorways (ABC 2014 3.4.3.2) permits a maximum occupant load of 590 people. CONSTRUCTION 1. ABC 2014 3.2.2.28, Group A, Division 2, One Storey 2. One storey in height 3. No more than 400m ² if facing one street 4. Combustible or non-combustible construction permitted EXITING The maximum distance to an egress door within a group A occupancy is 15m. The maximum travel distance within the heated waiting area is approximately 14 m. FIRE RATINGS 1. Roof: 0 hour 2. Public Corridor: 0 hour 3. Mechanical & Electrical Service Rooms: 1 hour (ABC 2014, 3.6.2.1.(2)) 4. Janitor Room: 1 hour (ABC 2014, 3.3.1.21) WASHROOM FACILITIES The design provides two ETS operator washrooms and two public washrooms. The operator male washroom has two water closets and two urinals. The operator female washroom has two water closets. The two public washrooms are both gender neutral and fully barrier free single use washroom with automatic doors.		W1 - 120mm THICK ARCHITECTURAL PRECAST CONCRETE PANEL WITH FORM LINER PATTERN - 25mm AIR SPACE - 100mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - 152mm STEEL STUD @406mm O.C. - 64mm STEEL STUD @406mm O.C. - 16mm GYPSUM BOARD (R-VALUE OF WALL ASSEMBLY = RSI 4.05) W1a - 120mm THICK ARCHITECTURAL PRECAST CONCRETE PANEL WITH FORM LINER PATTERN - 100mm AIR SPACE - 25mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - 152mm STEEL STUD @406mm O.C. - 64mm STEEL STUD @406mm O.C. - 16mm GYPSUM BOARD (R-VALUE OF WALL ASSEMBLY = RSI 4.05) W1b - 120mm THICK ARCHITECTURAL PRECAST CONCRETE PANEL WITH FORM LINER PATTERN - 100mm AIR SPACE - 25mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - 152mm STEEL STUD @406mm O.C. - 64mm STEEL STUD @406mm O.C. - 16mm GYPSUM BOARD (R-VALUE OF WALL ASSEMBLY = RSI 4.05) W2 - 3mm THICK STEEL PLATE PRIMED WITH SUB GIRT SYSTEM - 25mm AIR SPACE - 25mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - 152mm STEEL STUD @406mm O.C. - 64mm STEEL STUD @406mm O.C. - 16mm GYPSUM BOARD (R-VALUE OF WALL ASSEMBLY = RSI 4.05) W2X - 3mm THICK STEEL PLATE PRIMED WITH SUB GIRT SYSTEM - 25mm AIR SPACE - 25mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - 152mm STEEL STUD @406mm O.C. - 64mm STEEL STUD @406mm O.C. - 16mm GYPSUM BOARD (R-VALUE OF WALL ASSEMBLY = RSI 4.05)		W3 - 100mm PRECAST CONCRETE PANEL - 25mm AIR SPACE - 100mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - STRUCTURAL CONCRETE CURB (UNDER GLAZING WALL IN HEATED WAITING AREA) W3a - 100mm PRECAST CONCRETE PANEL - 25mm AIR SPACE - 75mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - STRUCTURAL CONCRETE CURB (UNDER GLAZING WALL IN UNHEATED WAITING AREA) W3b - 100mm PRECAST CONCRETE PANEL - 100 AIR SPACE - AIR/VAPOUR MEMBRANE - STRUCTURAL CONCRETE CURB (UNDER GLAZING WALL IN UNHEATED WAITING AREA)		W4 - PREFINISHED METAL FLASHING - 25mm AIR SPACE - 100mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - 152mm STEEL STUD @406mm O.C. - 16mm GYPSUM BOARD - 125mm AIR SPACE - 120mm THICK ARCHITECTURAL PRECAST CONCRETE PANEL WITH FORM LINER PATTERN		PP1 WALL - 20mm THICK CONCRETE LINER PATTERN - 100mm THICK PRECAST CONCRETE PANEL - 25mm AIR SPACE - 100mm RIGID INSULATION - BUILDING PAPER - 16mm GYPSUM SHEATHING - 152mm STEEL STUD @406mm O.C. - 19mm PLYWOOD - ROOFING MEMBRANE CAP - SLOPED PRECAST CONCRETE CAP WITH LINER PATTERN - ROOF MEMBRANE - 19mm PLYWOOD PP2 WALL - PREFINISHED METAL FASCIA ON SUB GIRT SYSTEM - 15mm AIR SPACE - 50mm RIGID INSULATION - BUILDING PAPER - 16mm GYPSUM SHEATHING - 92mm STEEL STUD @406mm O.C. - 19mm PLYWOOD - ROOFING MEMBRANE CAP - PREFINISHED METAL FLASHING - ROOF MEMBRANE - TWO LAYERS OF 19mm SLOPED PLYWOOD PP3 WALL - PREFINISHED METAL FASCIA ON SUB GIRT SYSTEM - 65mm AIR SPACE - 16mm GYPSUM SHEATHING - 92mm STEEL STUD @406mm O.C. - 16mm GYPSUM SHEATHING - PREFINISHED METAL FASCIA ON SUB GIRT SYSTEM CAP - PREFINISHED METAL FLASHING - TWO LAYERS OF 19mm SLOPED PLYWOOD		F1 - 16mm GYPSUM BOARD - 92mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY F2 - 16mm GYPSUM BOARD - 152mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY - 16mm GYPSUM BOARD F3 - 16mm GYPSUM BOARD - 152mm STEEL STUD @406mm O.C. - 92mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY - 16mm GYPSUM BOARD SH - 16mm FIRE RATED GYPSUM BOARD - 92mm C-H STEEL STUD @406mm O.C. - 25mm SHAFT LINER		R1 - ROOFING MEMBRANE - MEMBRANE UNDERLAY - 100mm RIGID INSULATION BACK SLOPE INSULATION TO ROOF DRAIN, AS INDICATED ON ROOF PLAN - MINIMUM 2% - AIR VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - STRUCTURAL DECK (R-VALUE OF ASSEMBLY - RSI 4.05) R2 - TRANSLUCENT ROOF PANEL SYSTEM - STRUCTURAL FRAMING		RECESSED FIRE EXTINGUISHER CABINET PAINT TO MATCH ADJACENT WALL COLOUR FULLY RECESSED SCHEDULED WALL																																																																																																																																																																																																																																	
SYMBOL LEGENDS REF → DETAIL NUMBER REF → REFERENCE SIM / TYP / REV REF → PLAN DETAIL REFERENCE REF → DRAWING NUMBER REF → SECTION NUMBER REF → REFERENCE SIM / TYP / REV REF → WALL / DETAIL SECTION REFERENCE REF → DRAWING NUMBER REF → REFERENCE SIM / TYP / REV REF → ELEVATION NUMBER REF → EXTERIOR ELEVATION REFERENCE REF → DRAWING NUMBER REF → DRAWING NUMBER REF → REFERENCE SIM / TYP / REV REF → INTERIOR ROOM ELEVATION REFERENCE REF → ELEVATION NUMBER REF → GRID TAG REF → 1 HR FIRE RATING NAME → LEVEL NAME 100 000 → LEVEL TAG 100 000 → LEVEL ELEVATION ROOM NAME → LEVEL NAME 0000 → ROOM TAG 0000 → LEVEL ELEVATION REF → FLOOR ASSEMBLY TAG REF → WALL / PARTITION ASSEMBLY TAG REF → CEILING ASSEMBLY TAG REF → CEILING ASSEMBLY TAG REF → CEILING HEIGHT A.F.F. REF → ROOF ASSEMBLY TAG REF → FINISH TYPE TAG REF → EQUIPMENT TYPE TAG REF → ACCESSORY TYPE TAG		W3c - 100mm PRECAST CONCRETE PANEL - 25mm AIR SPACE - 100mm RIGID INSULATION - AIR/VAPOUR MEMBRANE - STRUCTURAL CONCRETE CURB (UNDER GLAZING WALL IN UNHEATED WAITING AREA)		INTERIOR WALL ASSEMBLIES P1 - 16mm GYPSUM BOARD - 92mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY - 16mm GYPSUM BOARD P1X - 16mm FIRE RATED GYPSUM BOARD - 92mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY - 16mm FIRE RATED GYPSUM BOARD P2 - 16mm GYPSUM BOARD - 152mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY - 16mm GYPSUM BOARD P2X - 16mm FIRE RATED GYPSUM BOARD - 152mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY - 16mm FIRE RATED GYPSUM BOARD P3 - 16mm GYPSUM BOARD - 152mm STEEL STUD @406mm O.C. - 92mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY - 16mm GYPSUM BOARD SH - 16mm FIRE RATED GYPSUM BOARD - 92mm C-H STEEL STUD @406mm O.C. - 25mm SHAFT LINER		FURRING WALL ASSEMBLIES F1 - 16mm GYPSUM BOARD - 92mm STEEL STUD @406mm O.C. - BATT INSULATION TO FILL STUD CAVITY		ROOF ASSEMBLIES R1 - ROOFING MEMBRANE - MEMBRANE UNDERLAY - 100mm RIGID INSULATION BACK SLOPE INSULATION TO ROOF DRAIN, AS INDICATED ON ROOF PLAN - MINIMUM 2% - AIR VAPOUR MEMBRANE - 16mm GYPSUM SHEATHING - STRUCTURAL DECK (R-VALUE OF ASSEMBLY - RSI 4.05) R2 - TRANSLUCENT ROOF PANEL SYSTEM - STRUCTURAL FRAMING		WALL MOUNTED ACCESSORIES CH COAT HOOK G1 1220mm LONG GRAB BAR G2 610mm LONG GRAB BAR M1 900Wx1000Hmm MIRROR M2 600Wx1000Hmm MIRROR MS MOP STRIP ND NAPKIN DISPOSAL PD PAPER TOWEL DISPENSER SD SOAP DISPENSER HD HAND DRYER		BACKING DETAILS GENERAL NOTES 1. INDICATES EXTENT OF IN-WALL REINFORCING (19mm THICK PLYWOOD). 2. DIMENSIONS PROVIDED ARE MINIMUMS ONLY. ENSURE REINFORCING SPANS A MINIMUM OF TWO STUDS TO ALLOW REINFORCING A MINIMUM OF TWO ANCHOR POINTS. 3. EXTEND REINFORCING ONE STUD SPACE BEYOND EDGES OF ACCESSORY ANCHOR POINTS AND BEYOND EDGES OF MILLWORK, CASEWORK AND EQUIPMENT. 4. INSTALL REINFORCING AT HEIGHTS APPROPRIATE TO SCHEDULED ACCESSORY, FITTING AND EQUIPMENT. REFER TO ACCESSORY MOUNTING HEIGHTS SCHEDULE. TYPICAL BACKING WIDTH EXCEPT WHERE NOTED OTHERWISE FLOOR SCHEDULED ACCESSORY (INCLUDING MIRRORS) FLOOR CASEWORK / MILLWORK BACK SPLASH		DOOR SCHEDULE ABBREVIATION ABBREVIATION MATERIAL DESCRIPTION AL ALUMINUM ANODIZED AN ANODIZED HOLLOW METAL DOOR LG LAMINATED GLASS P PAINT PS PRESSED STEEL TG TEMPERED GLASS																																																																																																																																																																																																																																	
DOOR SCHEDULE <table border="1"> <thead> <tr> <th rowspan="2">Mark</th> <th rowspan="2">From Room: Number</th> <th rowspan="2">To Room: Number</th> <th colspan="2">DIMENSIONS</th> <th colspan="4">DOOR PARAMETERS</th> <th colspan="3">FRAME PARAMETERS</th> <th rowspan="2">Door_FRR</th> <th rowspan="2">Door_Hardw re Group</th> <th rowspan="2">Comments</th> </tr> <tr> <th>Width</th> <th>Height</th> <th>Door Type</th> <th>Panel_Material</th> <th>Panel_Finish</th> <th>Panel_Glazing_Material</th> <th>Frame Type</th> <th>Frame_Material</th> <th>Frame_Finish</th> </tr> </thead> <tbody> <tr><td>D101</td><td>101</td><td>102</td><td>915</td><td>2135</td><td>A</td><td>HM</td><td>P2-G5</td><td></td><td></td><td>PS</td><td>P3-G5</td><td>0.75</td><td>005</td><td>Card Reader</td></tr> <tr><td>D102</td><td>102</td><td>103</td><td>915</td><td>2135</td><td>A</td><td>HM</td><td>P2-G5</td><td></td><td></td><td>PS</td><td>P3-G5</td><td>0.75</td><td>005</td><td>Card Reader</td></tr> 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<tr><td>D107</td><td>111</td><td>107</td><td>915</td><td>2340</td><td>B</td><td>HM</td><td>P#-G#</td><td></td><td></td><td>PS</td><td>P#-G#</td><td>0.75</td><td>004</td><td>Flush mounted Door, Card Reader, Paint as per 2/8.01</td></tr> <tr><td>D108</td><td>111</td><td>108</td><td>915</td><td>2340</td><td>B</td><td>HM</td><td>P#-G#</td><td></td><td></td><td>PS</td><td>P#-G#</td><td>0.75</td><td>004</td><td>Flush mounted Door, Card Reader, Paint as per 2/8.01</td></tr> <tr><td>D109</td><td>111</td><td>109</td><td>915</td><td>2340</td><td>B</td><td>HM</td><td>P#-G#</td><td></td><td></td><td>PS</td><td>P#-G#</td><td>0.75</td><td>007</td><td>Flush mounted Door, Card Reader, Paint as per 2/8.01</td></tr> <tr><td>D110</td><td>111</td><td>110</td><td>915</td><td>2340</td><td>B</td><td>HM</td><td>P#-G#</td><td></td><td></td><td>PS</td><td>P#-G#</td><td>0.75</td><td>007</td><td>Flush mounted Door, Card Reader, Paint as per 2/8.01</td></tr> <tr><td>D111a</td><td></td><td>111</td><td>1800</td><td>2350</td><td>C</td><td>ALUM</td><td>AN</td><td>LG</td><td></td><td>ALUM</td><td>AN</td><td></td><td>002</td><td>Aluminum Sliding Door, Hand Swipe Interior & Exterior, Card Reader</td></tr> <tr><td>D111b</td><td></td><td>111</td><td>1800</td><td>2350</td><td>D</td><td>ALUM</td><td>AN</td><td>LG</td><td></td><td>ALUM</td><td>AN</td><td></td><td>001</td><td>Aluminum Sliding Door, Hand Swipe</td></tr> <tr><td>D111c</td><td></td><td>111</td><td>1800</td><td>2350</td><td>D</td><td>ALUM</td><td>AN</td><td>LG</td><td></td><td>ALUM</td><td>AN</td><td></td><td>001</td><td>Aluminum Sliding Door, Hand Swipe</td></tr> <tr><td>D111d</td><td></td><td>111</td><td>1800</td><td>2368</td><td>C</td><td>ALUM</td><td>AN</td><td>LG</td><td></td><td>ALUM</td><td>AN</td><td></td><td>002</td><td>Aluminum Sliding Door, Hand Swipe Interior & Exterior, Card Reader</td></tr> </tbody> </table>		Mark	From Room: Number	To Room: Number	DIMENSIONS		DOOR PARAMETERS				FRAME PARAMETERS			Door_FRR	Door_Hardw re Group	Comments	Width	Height	Door Type	Panel_Material	Panel_Finish	Panel_Glazing_Material	Frame Type	Frame_Material	Frame_Finish	D101	101	102	915	2135	A	HM	P2-G5			PS	P3-G5	0.75	005	Card Reader	D102	102	103	915	2135	A	HM	P2-G5			PS	P3-G5	0.75	005	Card Reader	D103	111	103	1050	2340	B	HM	P#-G#			PS	P#-G#	0.75	006	Flush mounted Door, Card Reader, Paint as per 2/8.01	D104	111	104	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	006	Flush mounted Door, Card Reader, Paint as per 2/8.01	D105	111	105	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	003	Flush mounted Door, Card Reader, Paint as per 2/8.01	D106	111	106	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	003	Flush mounted Door, Card Reader, Paint as per 2/8.01	D107	111	107	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	004	Flush mounted Door, Card Reader, Paint as per 2/8.01	D108	111	108	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	004	Flush mounted Door, Card Reader, Paint as per 2/8.01	D109	111	109	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	007	Flush mounted Door, Card Reader, Paint as per 2/8.01	D110	111	110	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	007	Flush mounted Door, Card Reader, Paint as per 2/8.01	D111a		111	1800	2350	C	ALUM	AN	LG		ALUM	AN		002	Aluminum Sliding Door, Hand Swipe Interior & Exterior, Card Reader	D111b		111	1800	2350	D	ALUM	AN	LG		ALUM	AN		001	Aluminum Sliding Door, Hand Swipe	D111c		111	1800	2350	D	ALUM	AN	LG		ALUM	AN		001	Aluminum Sliding Door, Hand Swipe	D111d		111	1800	2368	C	ALUM	AN	LG		ALUM	AN		002	Aluminum Sliding Door, Hand Swipe Interior & Exterior, Card Reader	GENERAL NOTES FOR INTERIOR WALL CONSTRUCTION 1. ALL STUDS AT 406mm O.C. UNLESS OTHERWISE NOTED. 2. FOR ALL FIRE RATED PARTITION • U/S OF STRUCTURAL DECK • FIRE STOP BETWEEN TOP OF WALL AND UNDERSIDE OF STRUCTURAL DECK AND BOTTOM OF WALL TO CONCRETE FLOOR SLAB • FIRE STOP ALL PENETRATIONS • ALL NON RATED PARTITION AND FURRING ASSEMBLIES TO EXTEND 150mm ABOVE CEILING. 3. PROVIDE DEFLECTION TRACKS AT TOP OF ALL FULL HEIGHT AND FIRE RATED PARTITIONS TO ALLOW FOR 25 mm DEFLECTION 4. TILE BACKER BOARD AT ALL WALL TILE LOCATIONS 5. BACKING IS TO BE PROVIDED BEHIND ALL WALL MOUNTED ELEMENTS 6. INSTALL DOOR FRAMES 100 mm FROM FACE-OF-WALL PERPENDICULAR WALLS TO OUTSIDE FACE OF DOOR FRAME UNLESS OTHERWISE NOTED.		DOOR TYPES 	
Mark	From Room: Number				To Room: Number	DIMENSIONS		DOOR PARAMETERS				FRAME PARAMETERS					Door_FRR	Door_Hardw re Group	Comments																																																																																																																																																																																																																												
		Width	Height	Door Type		Panel_Material	Panel_Finish	Panel_Glazing_Material	Frame Type	Frame_Material	Frame_Finish																																																																																																																																																																																																																																				
D101	101	102	915	2135	A	HM	P2-G5			PS	P3-G5	0.75	005	Card Reader																																																																																																																																																																																																																																	
D102	102	103	915	2135	A	HM	P2-G5			PS	P3-G5	0.75	005	Card Reader																																																																																																																																																																																																																																	
D103	111	103	1050	2340	B	HM	P#-G#			PS	P#-G#	0.75	006	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D104	111	104	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	006	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D105	111	105	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	003	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D106	111	106	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	003	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D107	111	107	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	004	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D108	111	108	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	004	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D109	111	109	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	007	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D110	111	110	915	2340	B	HM	P#-G#			PS	P#-G#	0.75	007	Flush mounted Door, Card Reader, Paint as per 2/8.01																																																																																																																																																																																																																																	
D111a		111	1800	2350	C	ALUM	AN	LG		ALUM	AN		002	Aluminum Sliding Door, Hand Swipe Interior & Exterior, Card Reader																																																																																																																																																																																																																																	
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D111d		111	1800	2368	C	ALUM	AN	LG		ALUM	AN		002	Aluminum Sliding Door, Hand Swipe Interior & Exterior, Card Reader																																																																																																																																																																																																																																	
WALL MOUNTED ACCESSORIES CH COAT HOOK G1 1220mm LONG GRAB BAR G2 610mm LONG GRAB BAR M1 900Wx1000Hmm MIRROR M2 600Wx1000Hmm MIRROR MS MOP STRIP ND NAPKIN DISPOSAL PD PAPER TOWEL DISPENSER SD SOAP DISPENSER HD HAND DRYER		BACKING DETAILS GENERAL NOTES 1. INDICATES EXTENT OF IN-WALL REINFORCING (19mm THICK PLYWOOD). 2. DIMENSIONS PROVIDED ARE MINIMUMS ONLY. ENSURE REINFORCING SPANS A MINIMUM OF TWO STUDS TO ALLOW REINFORCING A MINIMUM OF TWO ANCHOR POINTS. 3. EXTEND REINFORCING ONE STUD SPACE BEYOND EDGES OF ACCESSORY ANCHOR POINTS AND BEYOND EDGES OF MILLWORK, CASEWORK AND EQUIPMENT. 4. INSTALL REINFORCING AT HEIGHTS APPROPRIATE TO SCHEDULED ACCESSORY, FITTING AND EQUIPMENT. REFER TO ACCESSORY MOUNTING HEIGHTS SCHEDULE. TYPICAL BACKING WIDTH EXCEPT WHERE NOTED OTHERWISE FLOOR SCHEDULED ACCESSORY (INCLUDING MIRRORS) FLOOR CASEWORK / MILLWORK BACK SPLASH		DOOR SCHEDULE ABBREVIATION ABBREVIATION MATERIAL DESCRIPTION AL ALUMINUM ANODIZED AN ANODIZED HOLLOW METAL DOOR LG LAMINATED GLASS P PAINT PS PRESSED STEEL TG TEMPERED GLASS																																																																																																																																																																																																																																											
ACCESSORIES LEGEND AND MOUNTING HEIGHTS SCHEDULE 		ACCESSORIES LEGEND AND MOUNTING HEIGHTS SCHEDULE G2 610mm L HORIZONTAL GRAB BAR G1 1220mm L HORIZONTAL GRAB BAR CH COAT HOOK M1 M2 FRAMELESS MIRROR, SIZES AS INDICATED IN SPECIFICATION MS MOP STRIP ND FEMININE NAPKIN DISPOSAL PD PAPER TOWEL DISPENSER & WASTE RECEPTACLE SD SOAP DISPENSER TD TOILET TISSUE DISPENSER HEIGHT AT TYPICAL W/C LOCATION HD HAND DRYER WALL MOUNTED PHONE																																																																																																																																																																																																																																													

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A	ISSUED FOR TENDER	2019-05-03		
no.	description	date	appd.	
	issue data			
no.	description	date	checked	
	revisions			

DIALOG Consultant	
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drawn by DA	designed by MR
checked by TZ	date 2019-05-03

permit	seal
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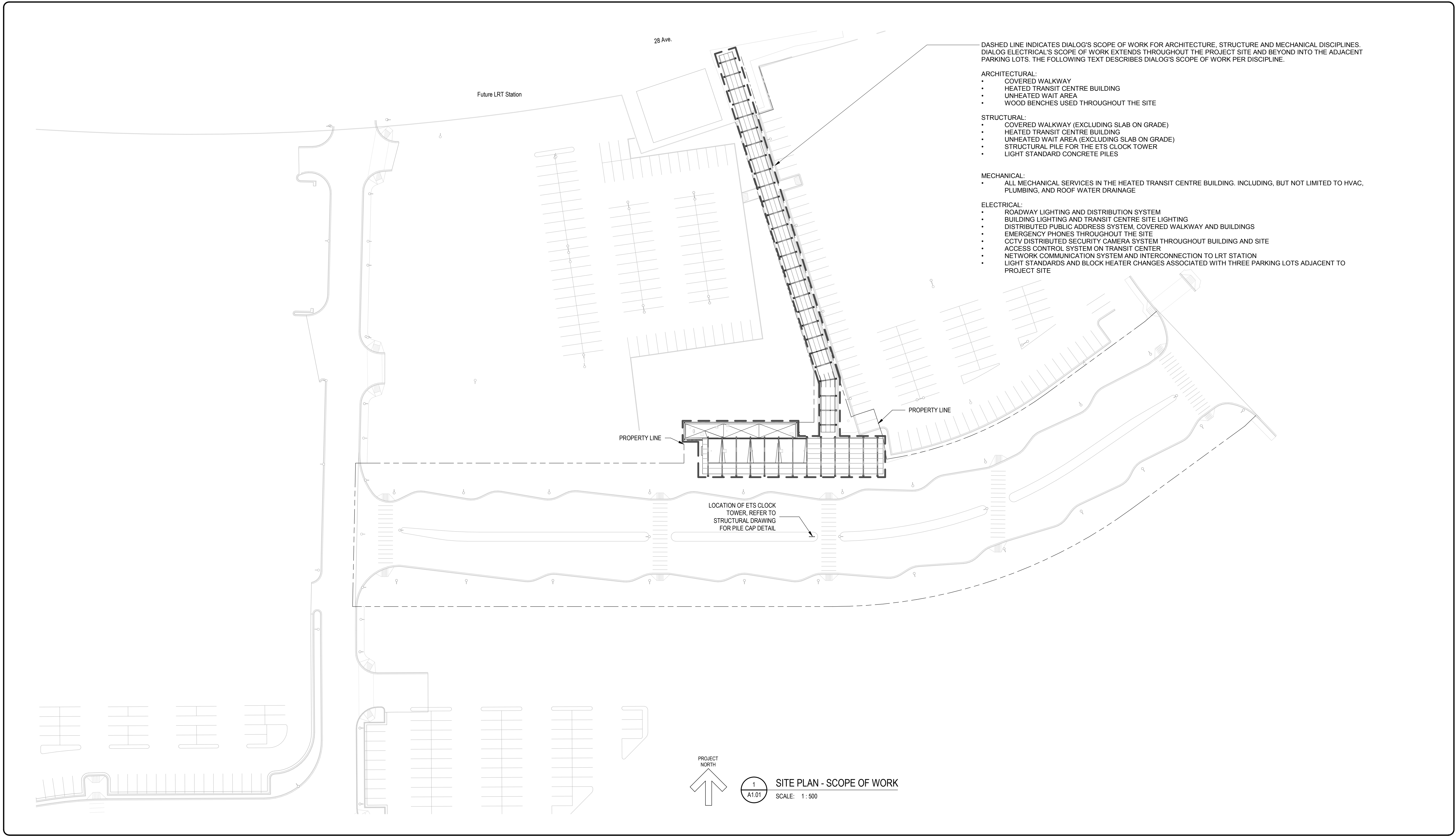
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Edmonton
prime consultant job no

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DIALOG	gec architecture
drawing title MILL WOODS TRANSIT CENTRE SYMBOLS, LEGENDS & SCHEDULES	
drawing no. MWTC 191 A0.01	REV No SHT

VALLEY LINE - STAGE 1 MILL WOODS TO DOWNTOWN
drawing no. MWTC 191 A0.01



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	revisions		

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DIALOG

gec architecture

drawing title
**MILL WOODS TRANSIT CENTRE
SITE PLAN - SCOPE OF WORK**

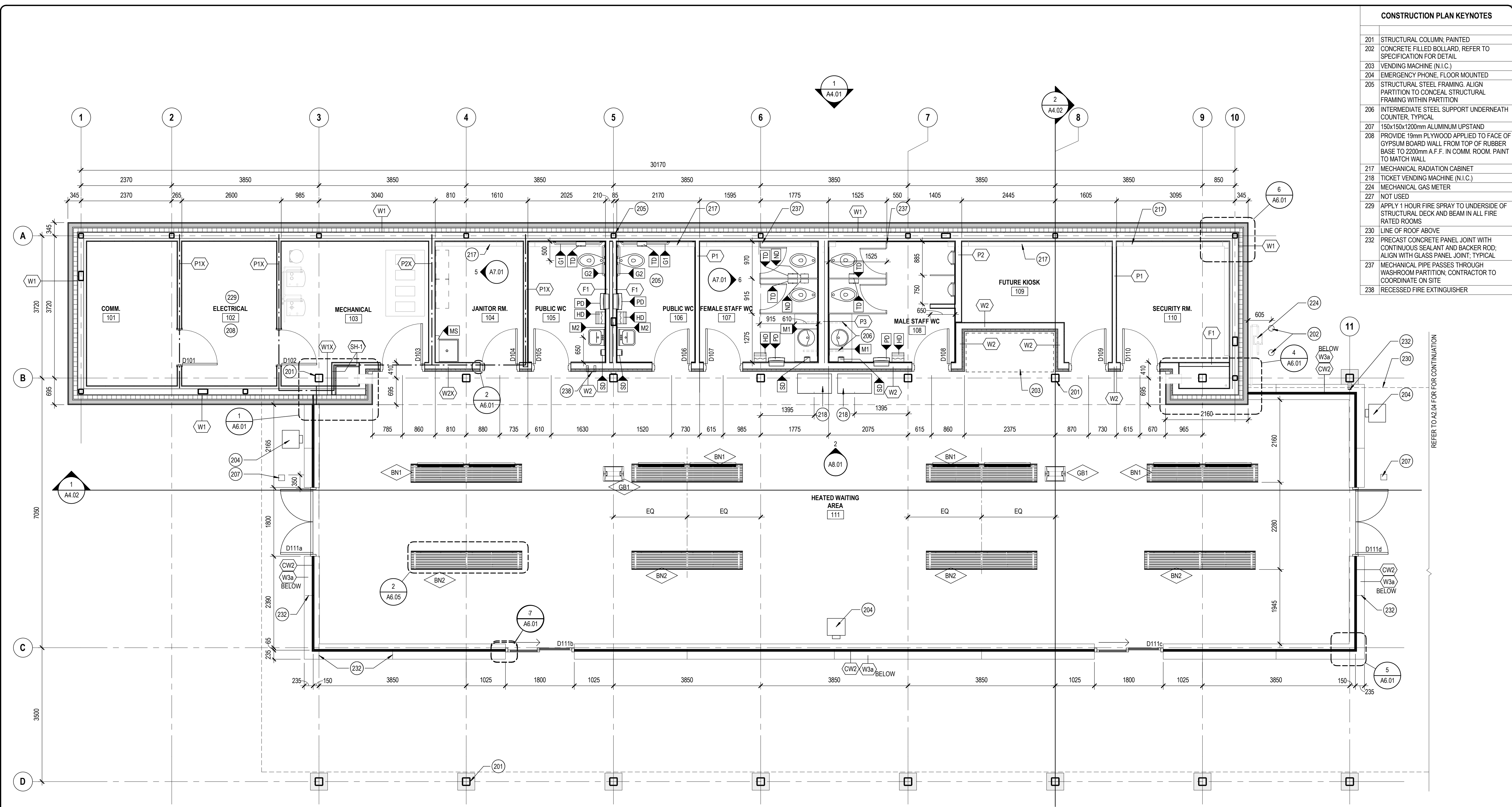
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 A1.01

REV No
SHT

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CONSTRUCTION PLAN KEYNOTES	
201	STRUCTURAL COLUMN; PAINTED
202	CONCRETE FILLED BOLLARD, REFER TO SPECIFICATION FOR DETAIL
203	VENDING MACHINE (N.I.C.)
204	EMERGENCY PHONE, FLOOR MOUNTED
205	STRUCTURAL STEEL FRAMING, ALIGN PARTITION TO CONCEAL STRUCTURAL FRAMING WITHIN PARTITION
206	INTERMEDIATE STEEL SUPPORT UNDERNEATH COUNTER, TYPICAL
207	150x150x1200mm ALUMINUM UPSTAND
208	PROVIDE 19mm PLYWOOD APPLIED TO FACE OF GYPSUM BOARD WALL FROM TOP OF RUBBER BASE TO 2200mm A.F.F. IN COMM. ROOM. PAINT TO MATCH WALL
217	MECHANICAL RADIATION CABINET
218	TICKET VENDING MACHINE (N.I.C.)
224	MECHANICAL GAS METER
227	NOT USED
229	APPLY 1 HOUR FIRE SPRAY TO UNDERSIDE OF STRUCTURAL DECK AND BEAM IN ALL FIRE RATED ROOMS
230	LINE OF ROOF ABOVE
232	PRECAST CONCRETE PANEL JOINT WITH CONTINUOUS SEALANT AND BACKER ROD; ALIGN WITH GLASS PANEL JOINT, TYPICAL
237	MECHANICAL PIPE PASSES THROUGH WASHROOM PARTITION; CONTRACTOR TO COORDINATE ON SITE
238	RECESSED FIRE EXTINGUISHER



1 FLOOR PLAN - HEATED WAITING AREA
SCALE: 1:50

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MILL WOODS TRANSIT CENTRE
FLOOR PLAN - HEATED AREA

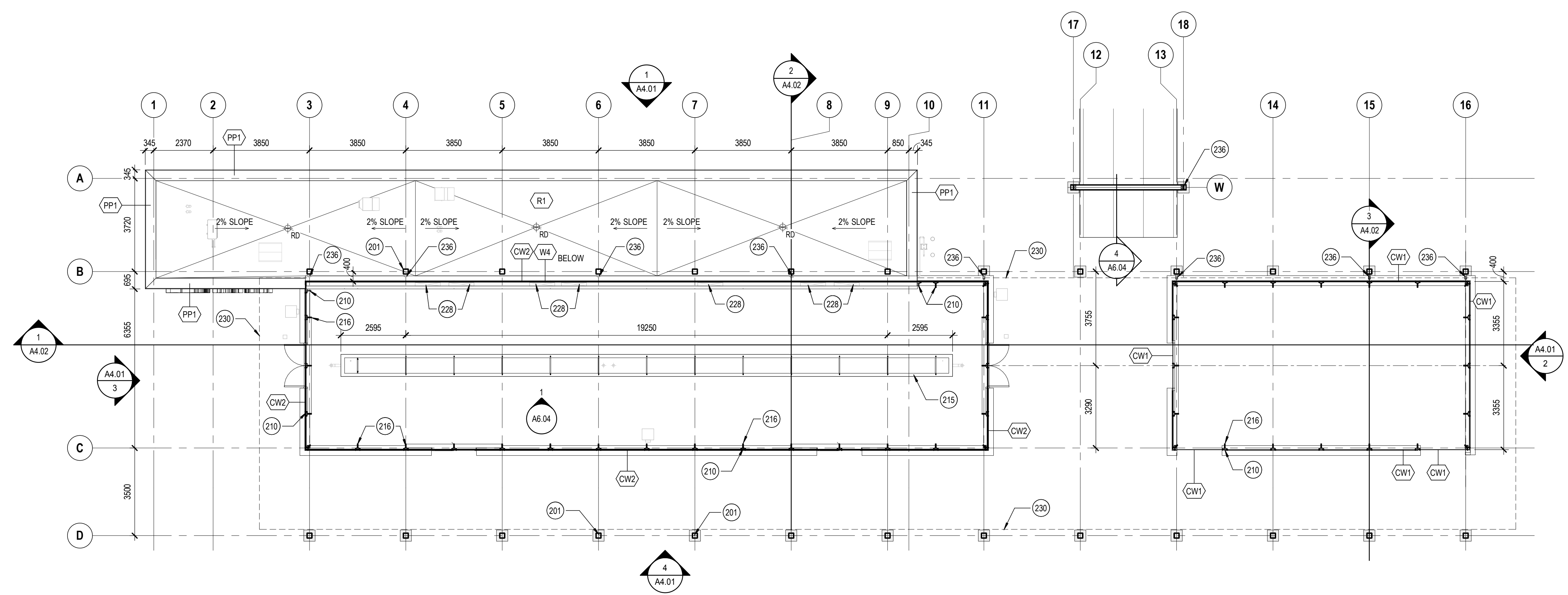
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 A2.03

REV No
SHT

REFER TO A2.04 FOR CONTINUATION

CONSTRUCTION PLAN KEYNOTES	
201	STRUCTURAL COLUMN; PAINTED
210	SPIDER FITTING SYSTEM FOR GLAZING SUPPORT
215	PREFINISHED METAL SHROUD FOR MECHANICAL INFRARED HEATER; POWDER COATED WHITE
216	STRUCTURAL FIN SUPPORT
228	MECHANICAL EXHAUST GRILLE
230	LINE OF ROOF ABOVE
236	16 GAUGE 75x75mm SQUARE GALVANIZED STEEL RAIN WATER LEADER



1 OVERALL CLERESTORY PLAN
 A2.05 SCALE: 1:100

no.	description	date	checked

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drawing title
**MILL WOODS TRANSIT CENTRE
 CLERESTORY PLAN**

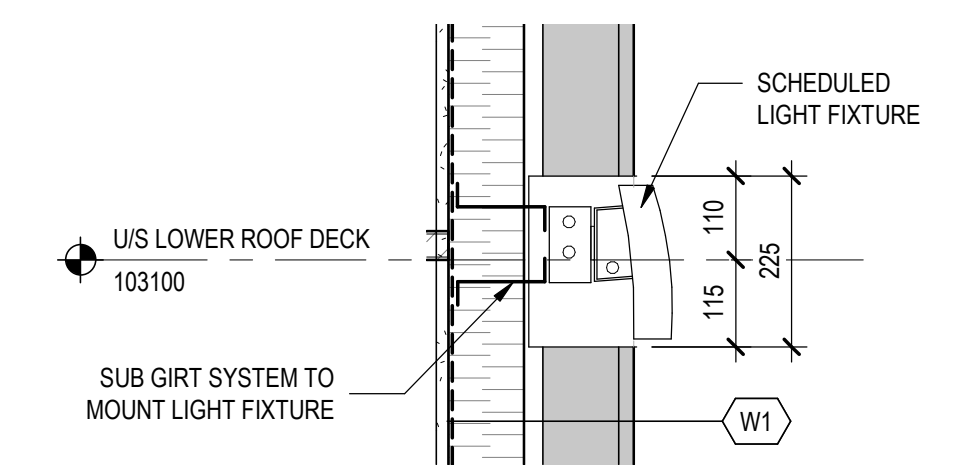
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 MILL WOODS TO DOWNTOWN

drawing no.
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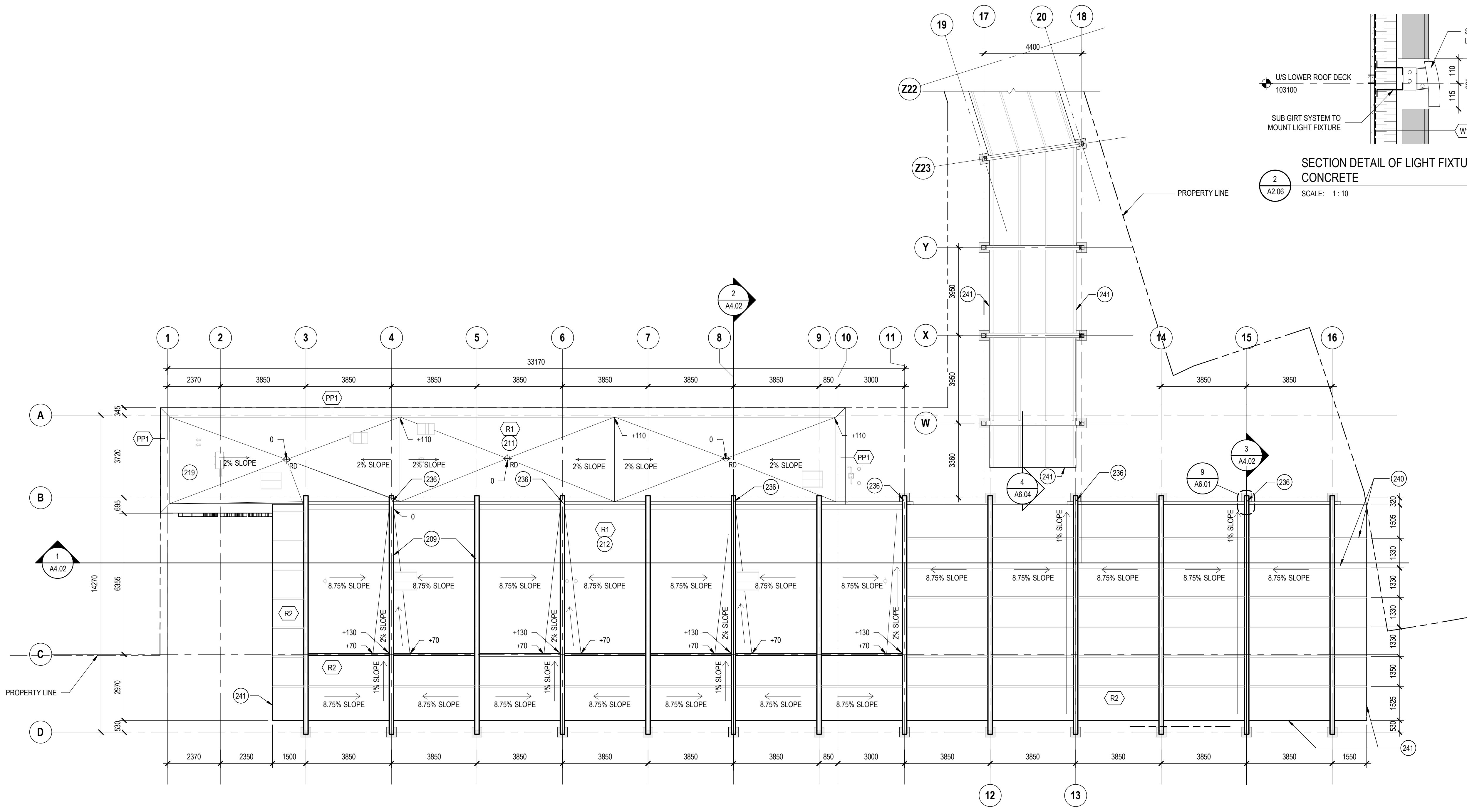
REV No
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CONSTRUCTION PLAN KEYNOTES	
209	STRUCTURAL FRAMING, PAINTED
211	LOWER ROOF
212	UPPER ROOF
236	16 GAUGE 75x75mm SQUARE GALVANIZED STEEL RAIN WATER LEADER
240	TRANSLUCENT ROOF PANEL JOINT; TYPICAL
241	CONTINUOUS FASCIA PANEL BY TRANSLUCENT ROOF PANEL SUPPLIER



SECTION DETAIL OF LIGHT FIXTURE AT PRECAST CONCRETE
SCALE: 1:10



1 ROOF PLAN
A2.06 SCALE: 1:100

no.	description	date	checked
1	ISSUED FOR TENDER	2019-05-03	
	revisions		

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DIALOG

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drawing title
MILL WOODS TRANSIT CENTRE ROOF PLAN

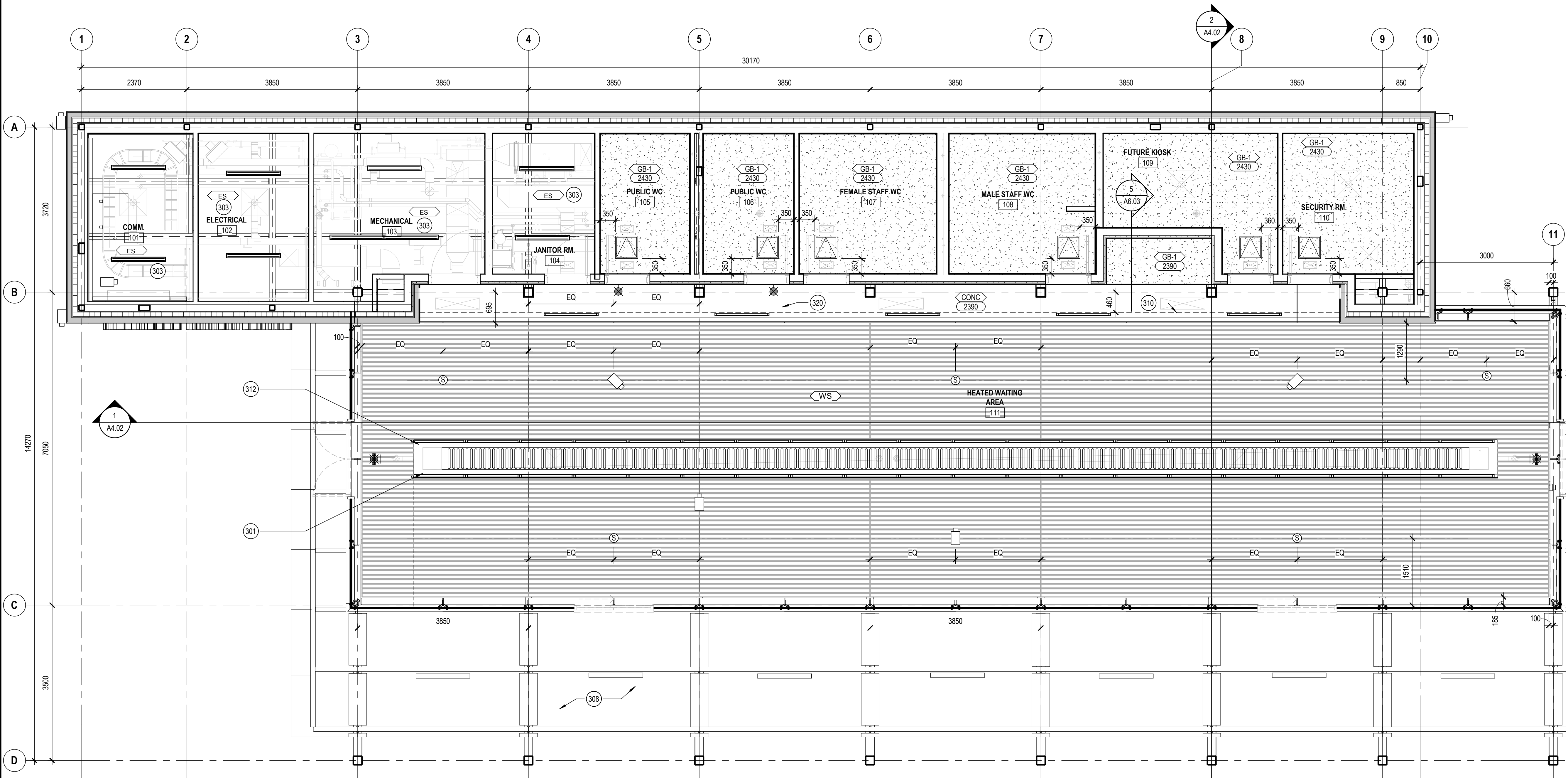
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 A2.06

REV No
SHT

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CEILING PLAN KEYNOTES	
301	MECHANICAL INFRARED NATURAL GAS HEATER
303	APPLY 1 HOUR FIRE RATED SPRAY TO UNDERSIDE OF STRUCTURAL DECK IN ALL FIRE RATED ROOMS
308	TRANSLUCENT ROOF PANELS
310	DASHED LINE INDICATES EDGE OF WOOD SLAT CEILING ABOVE
312	CONTINUE WOOD SLAT CEILING ABOVE INFRARED HEATER
320	PRECAST CONCRETE PANEL JOINT



REFLECTED CEILING LEGEND

- GYPSUM BOARD CEILING
- WOOD SLAT CEILING
- CEILING ACCESS PANEL (SIZES VARY)
- LINEAR LIGHT FIXTURE
- SURFACE MOUNTED LINEAR LIGHT FIXTURE
- RECESSED LAY-IN LIGHT FIXTURE
- WALL-MOUNT EXIT SIGN
- CEILING MOUNTED SPEAKER
- CEILING MOUNTED CCTV CAMERA

REFLECTED CEILING SCHEDULE

- EXPOSED STRUCTURE - PAINT FINISH
- GYPSUM BOARD ON SUSPENDED METAL FRAMING ASSEMBLY
- COMPOSITE WOOD VINEER CEILING SYSTEM

1 REFLECTED CEILING PLAN - HEATED AREA
A3.01 SCALE: 1:50

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no.	description	date	checked
	revisions		

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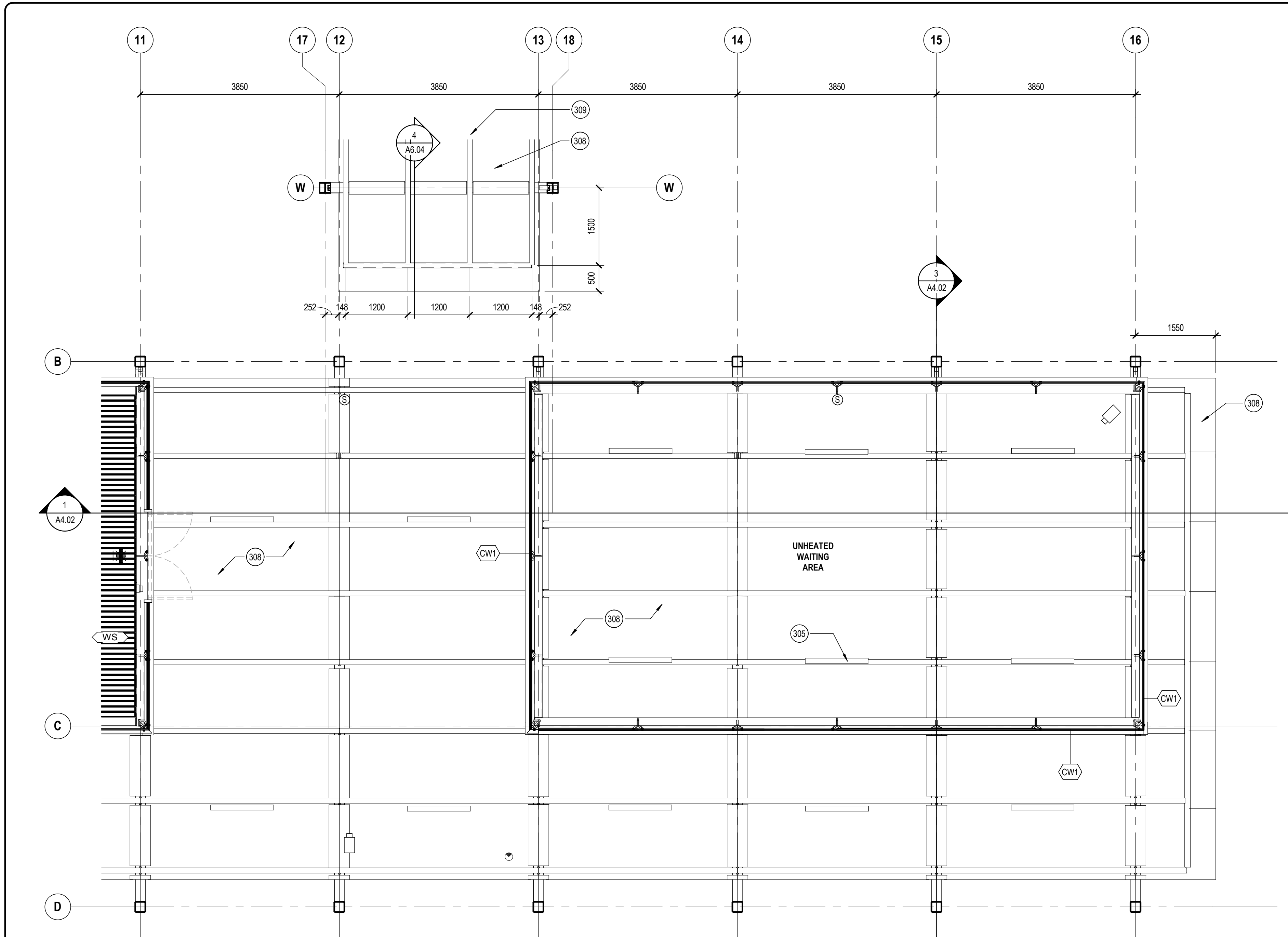
gec architecture

drawing title
MILL WOODS TRANSIT CENTRE
REFLECTED CEILING PLAN - HEATED AREA

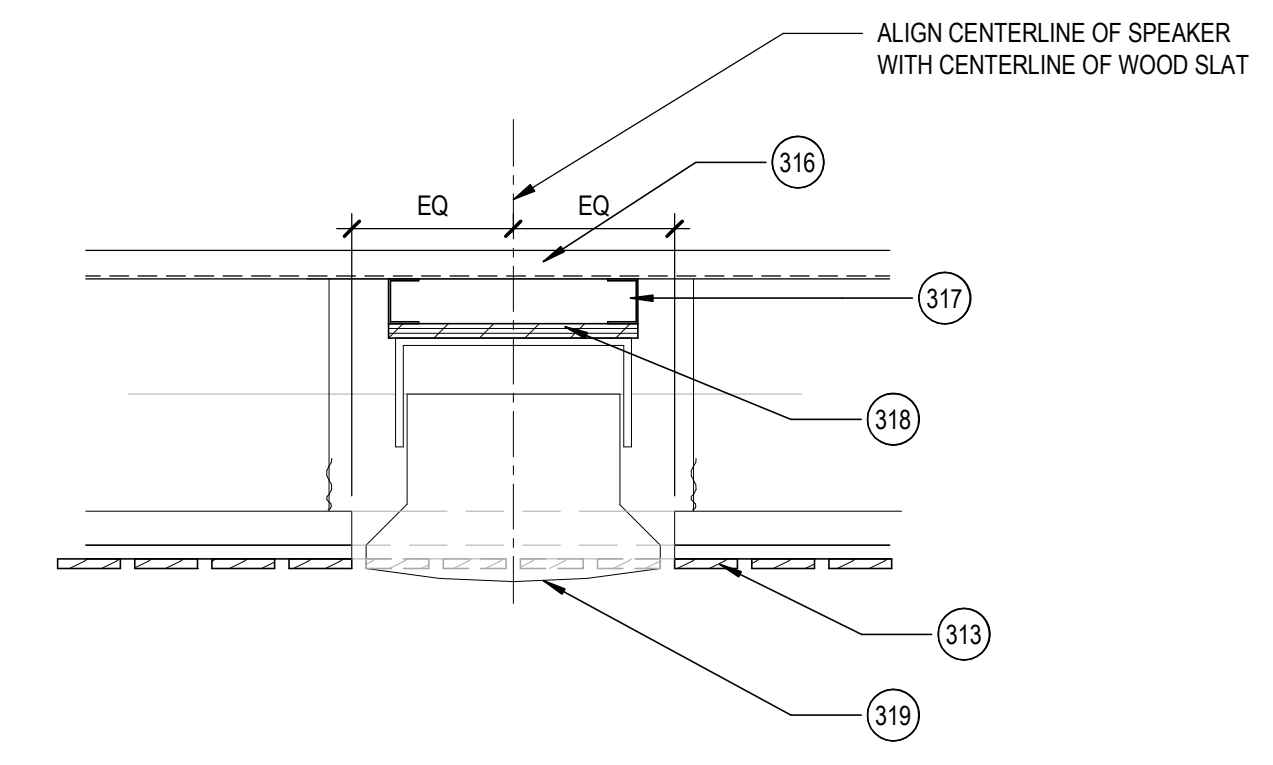
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 A3.01
REV No. SHT

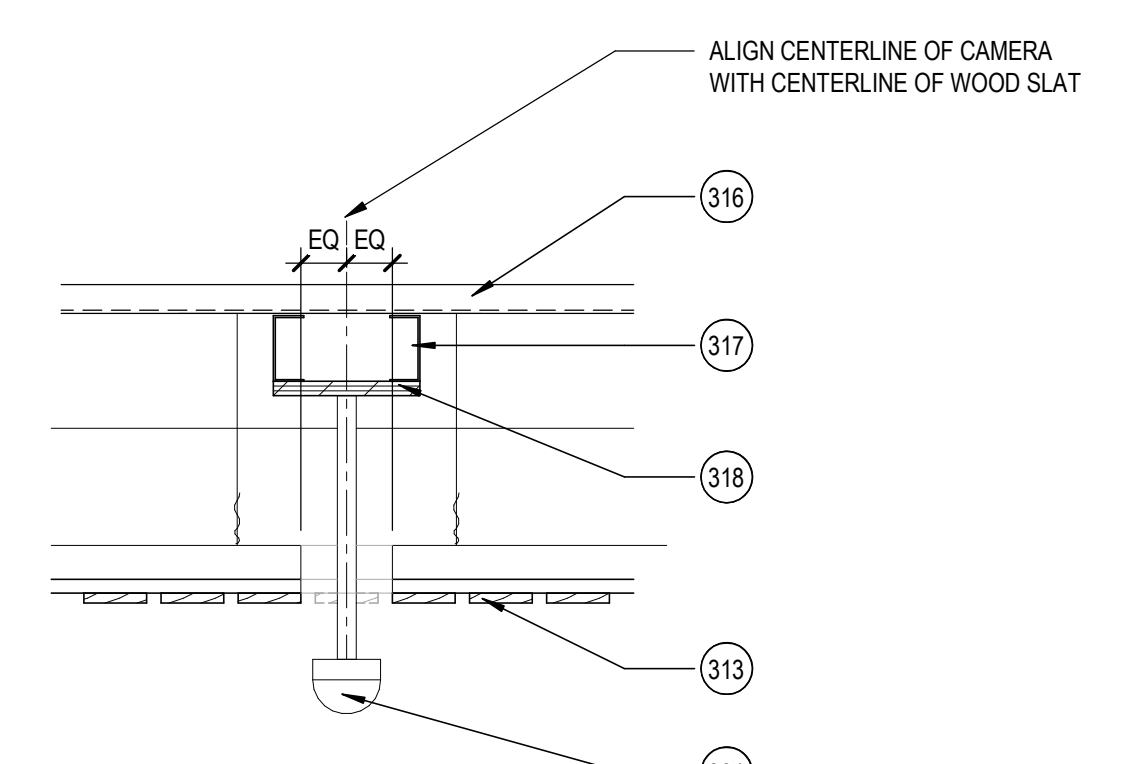
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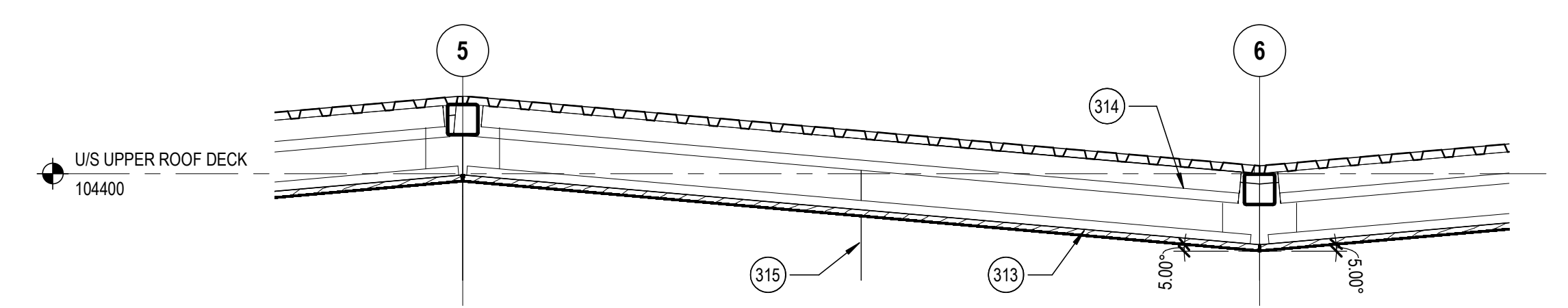
1 REFLECTED CEILING PLAN - UNHEATED AREA
SCALE: 1:50



2 CEILING MOUNTED SPEAKER DETAIL
SCALE: 1:10



3 CEILING MOUNTED CAMERA DETAIL
SCALE: 1:10



4 CD_SECTION DETAIL AT WOOD SLAT CEILING
SCALE: 1:25

CEILING PLAN KEYNOTES	
304	SCHEDULED CAMERA
305	SCHEDULED LINEAR LIGHT FIXTURE
308	TRANSLUCENT ROOF PANELS
309	STRUCTURAL PURLINS; PAINTED
313	SCHEDULED WOOD SLAT CEILING SYSTEM
314	STRUCTURAL FRAMING
315	LINE OF GLAZING BEYOND
316	STRUCTURAL DECK
317	64mm STEEL STUD SUPPORT FROM STRUCTURAL DECK
318	19mm PLYWOOD
319	SCHEDULED SPEAKER

REFLECTED CEILING LEGEND

	GYPSUM BOARD CEILING
	WOOD SLAT CEILING
	CEILING ACCESS PANEL (SIZES VARY)
	LINEAR LIGHT FIXTURE
	SURFACE MOUNTED LINEAR LIGHT FIXTURE
	RECESSED LAY-IN LIGHT FIXTURE
	WALL-MOUNT EXIT SIGN
	CEILING MOUNTED SPEAKER
	CEILING MOUNTED CCTV CAMERA

REFLECTED CEILING SCHEDULE

	EXPOSED STRUCTURE - PAINT FINISH
	GYPSUM BOARD ON SUSPENDED METAL FRAMING ASSEMBLY
	COMPOSITE WOOD VENEER CEILING SYSTEM

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	issue data		
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	revisions		

DIALOG Consultant	
A1 bar scale AS INDICATED	
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checked by TZ	date 2019-05-03

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consultant job no. 01255E0800	consultant reviewed by TZ

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Edmonton	

ISL Engineering and Land Services	DIALOG	gec architecture
drawing title	MILL WOODS TRANSIT CENTRE REFLECTED CEILING PLAN - UNHEATED AREA	

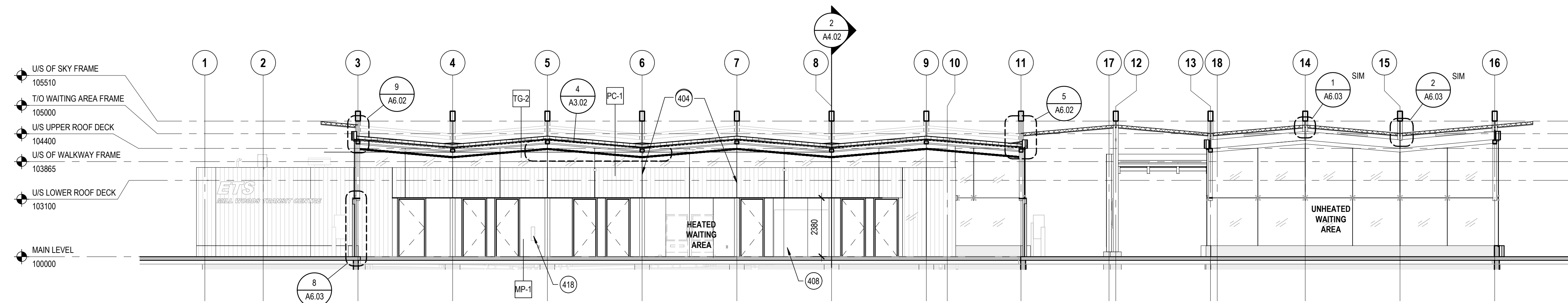
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drawing no. MWTC 191 A3.02	REV No. SHT
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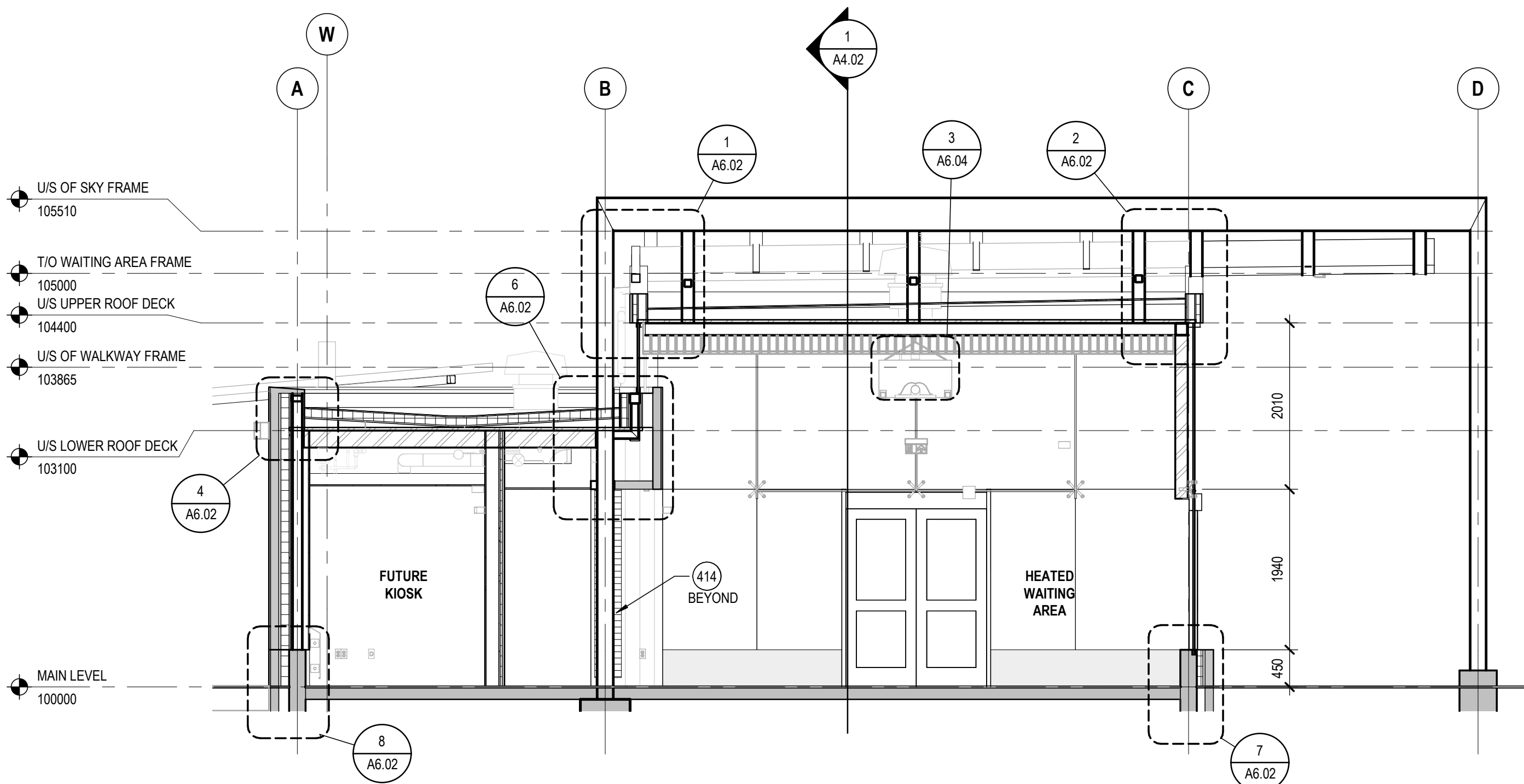
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

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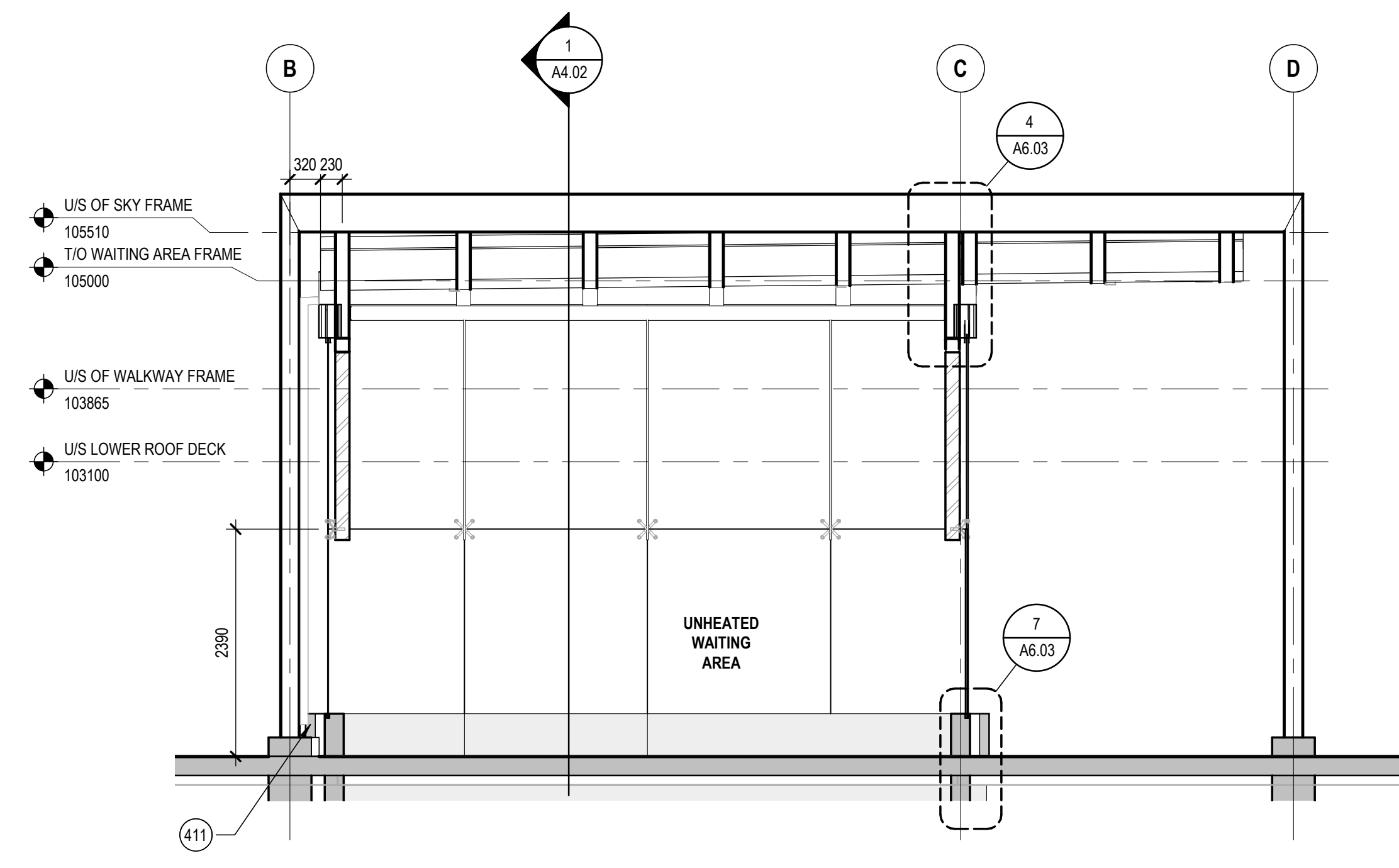
BUILDING SECTION & ELEVATION KEYNOTES	
404	PRECAST PANEL JOINTS
408	VENDING MACHINE (N.I.C.)
411	REFER TO ELEVATION DETAIL 2/A2.04 FOR PRECAST PANEL HEIGHT
414	MECHANICAL GRILLE
418	RECESSED FIRE EXTINGUISHER



1 BUILDING SECTION 1
A4.02 SCALE: 1:100



2 BUILDING SECTION 2
A4.02 SCALE: 1:50



3 BUILDING SECTION 3
A4.02 SCALE: 1:50

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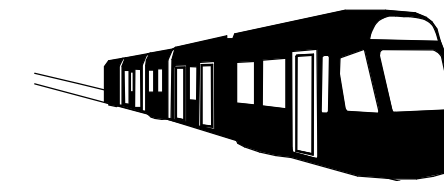
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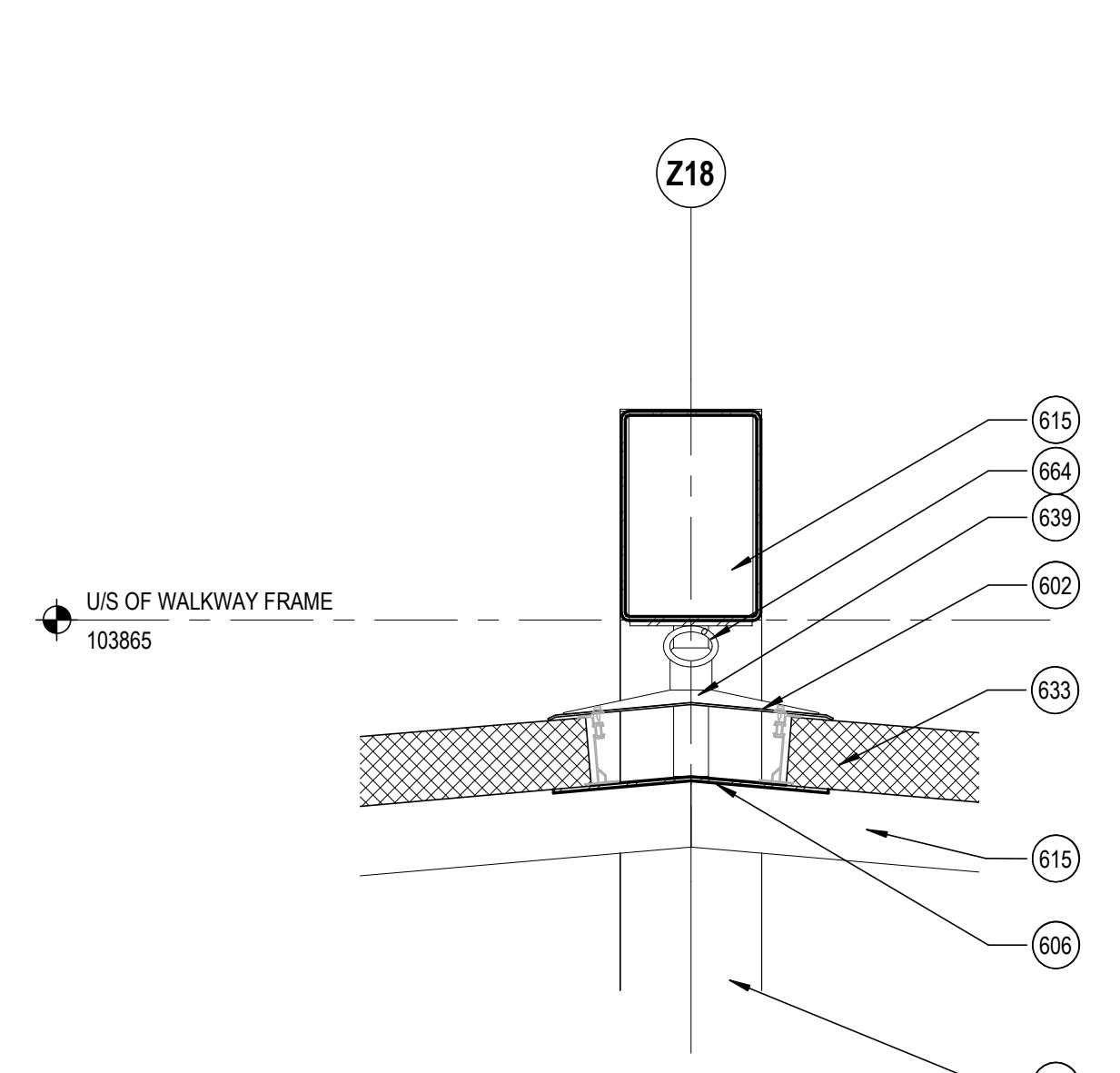
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MILL WOODS TRANSIT CENTRE BUILDING SECTIONS



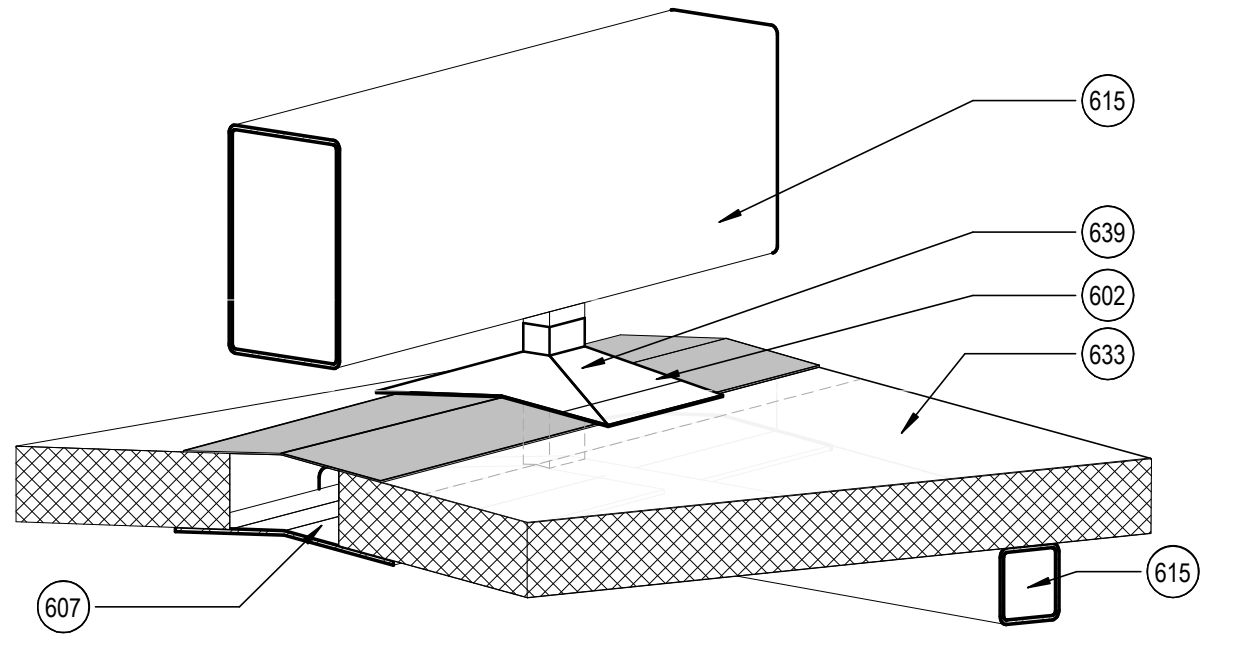
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 A4.02

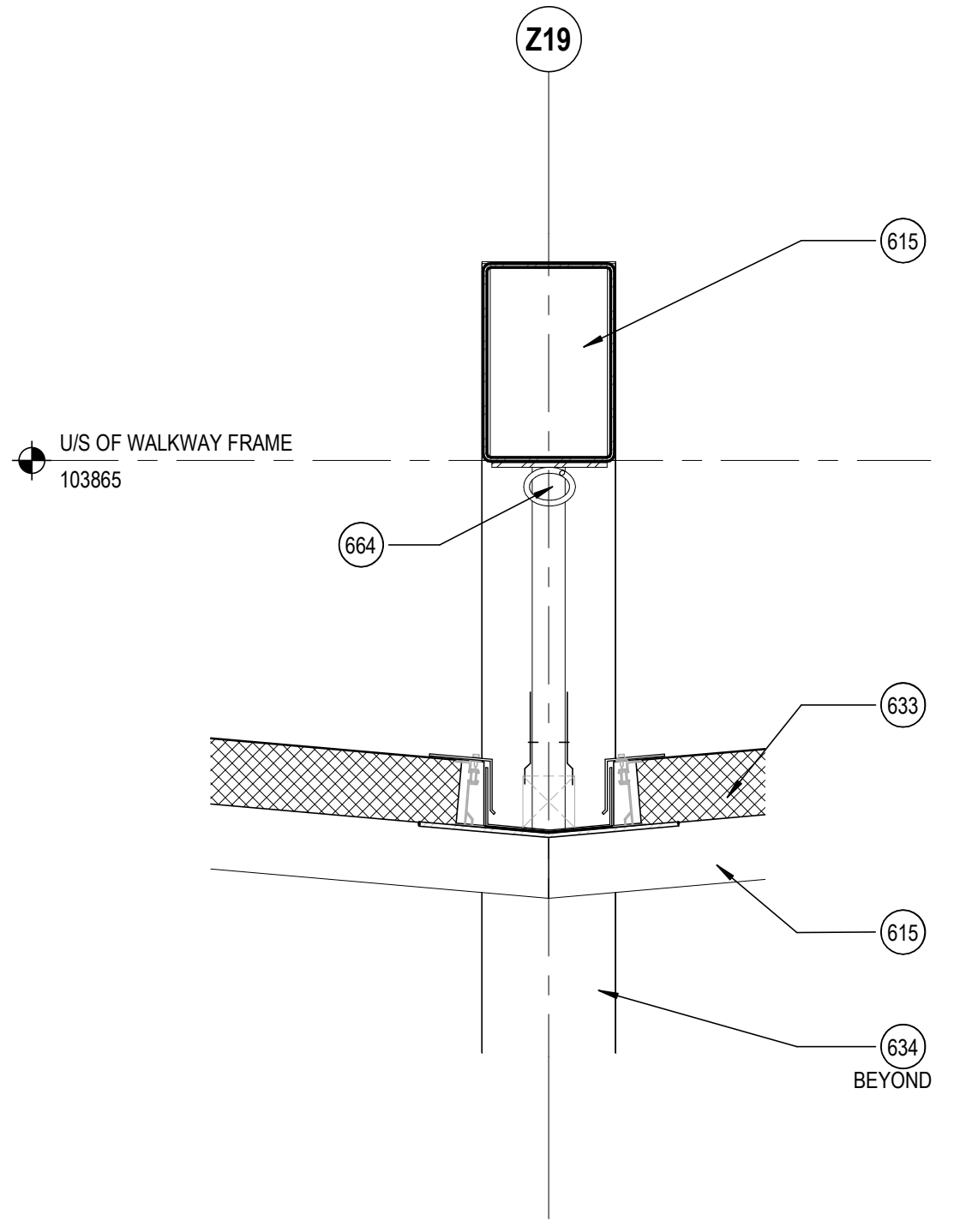
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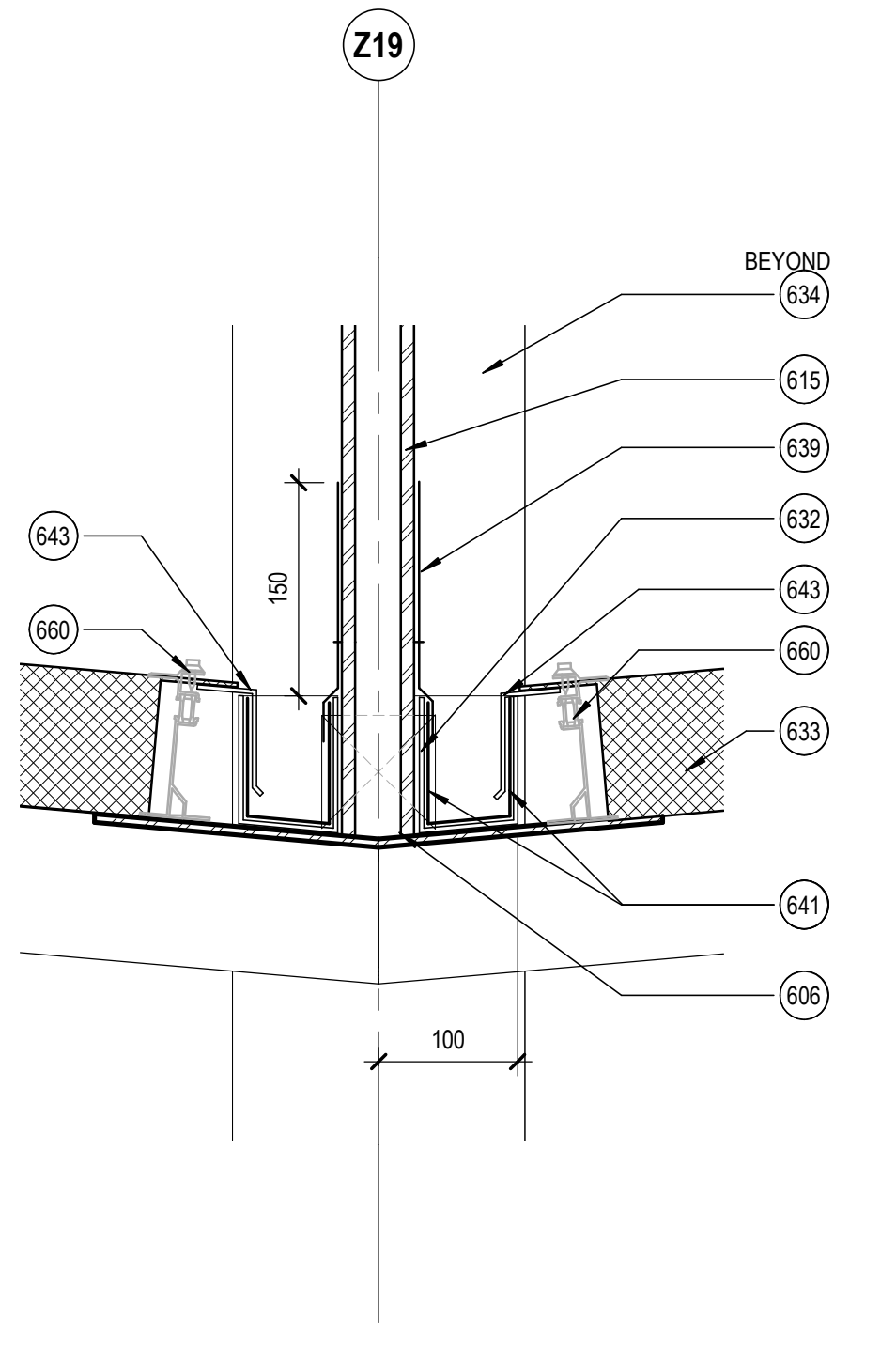
1 SECTION DETAIL AT WALKWAY ROOF RIDGE
SCALE: 1:10



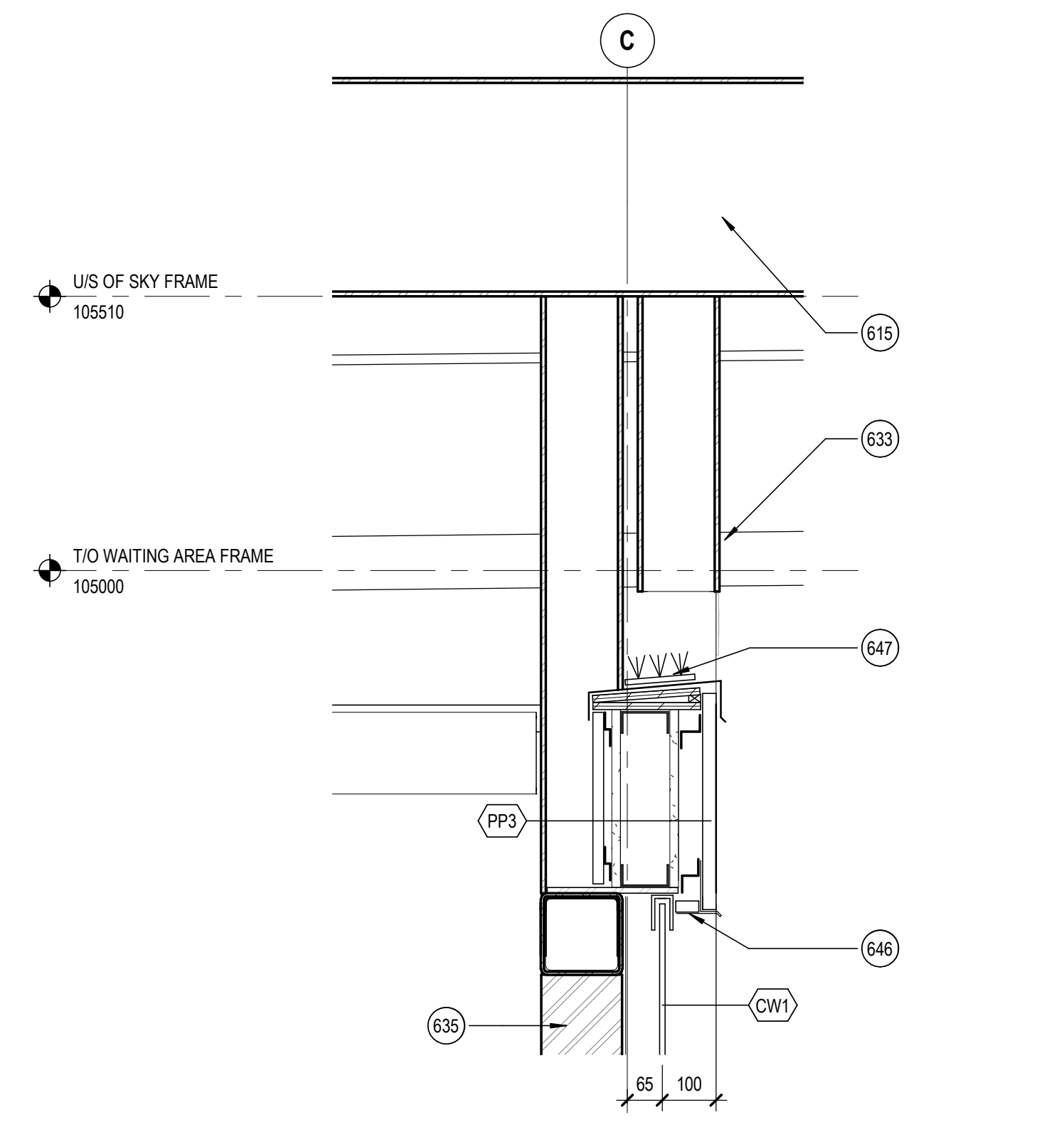
1a 3D VIEW AT STRUCTURAL HANGER PENETRATION AT TRANSLUCENT PANEL ROOF RIDGE
SCALE: 1:10



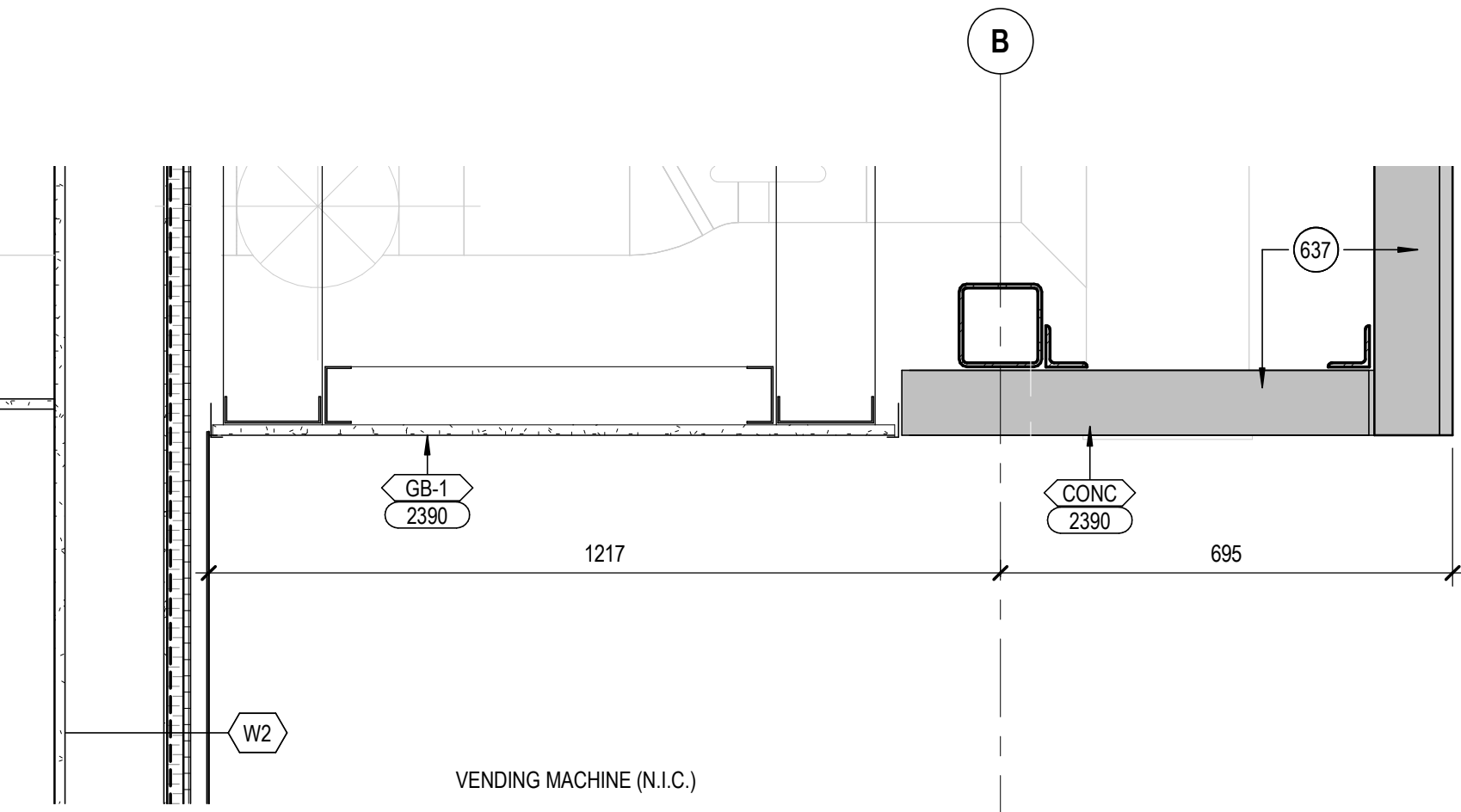
2 SECTION DETAIL AT WALKWAY ROOF GUTTER
SCALE: 1:10



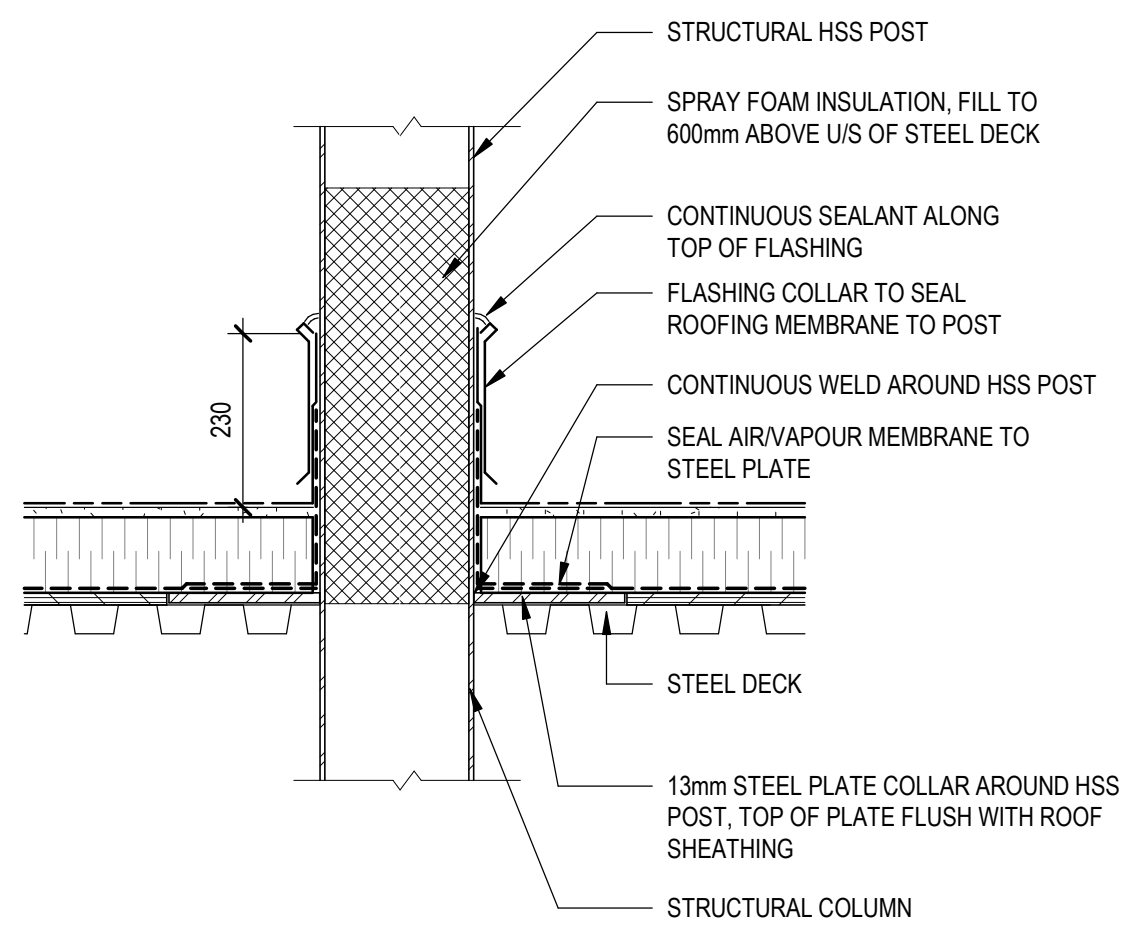
3 LARGE SCALE GUTTER DETAIL AT WALKWAY
SCALE: 1:5



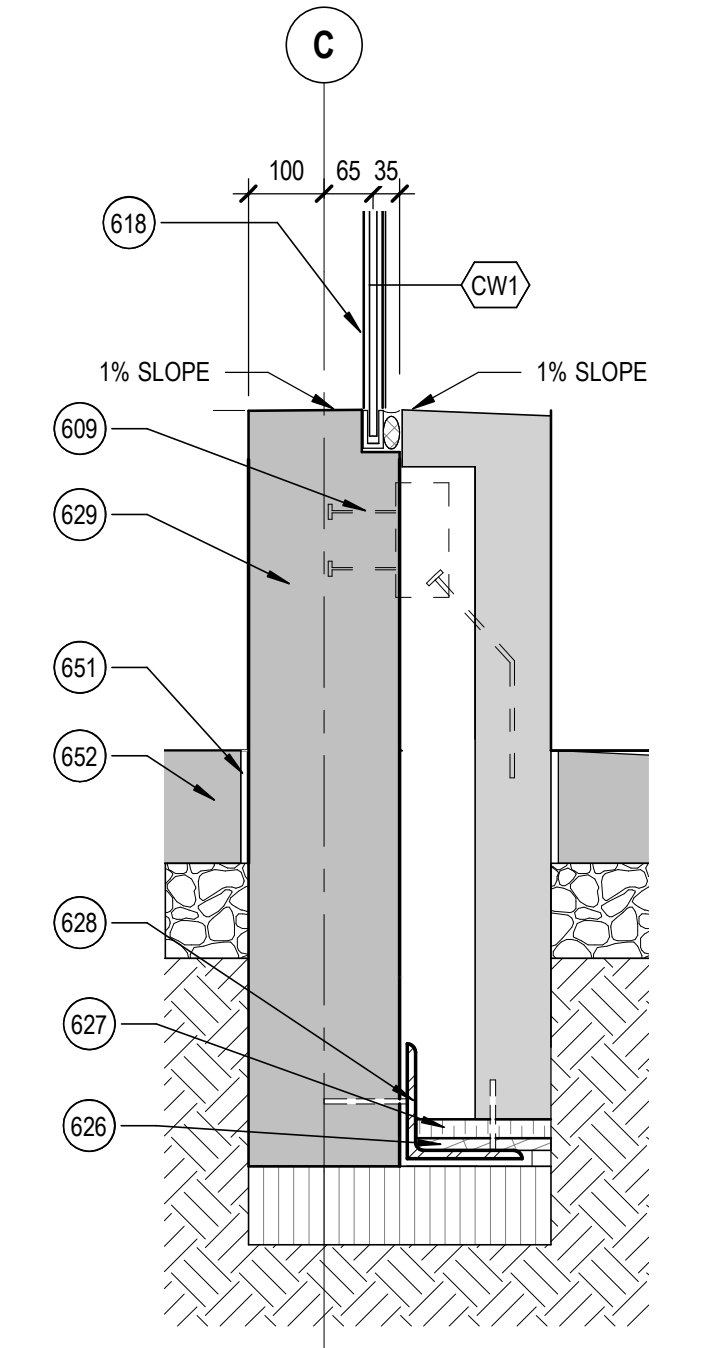
4 SECTION DETAIL AT GLAZING HEADER - UNHEATED AREA
SCALE: 1:10



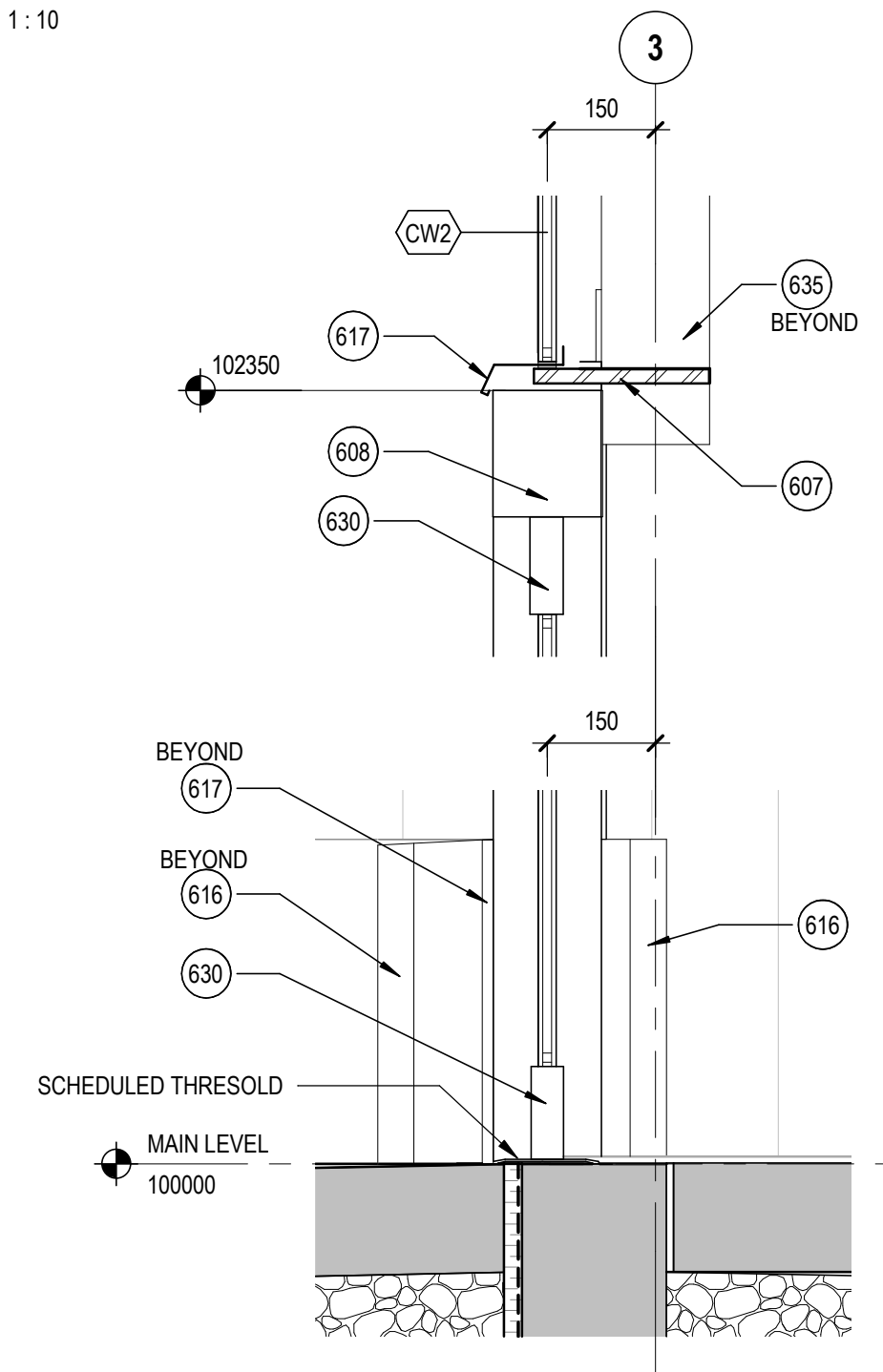
5 CEILING DETAIL AT VENDING MACHINE AREA
SCALE: 1:10



6 SECTION DETAIL AT HSS PENETRATION AT ROOF
SCALE: 1:10



7 SECTION DETAIL AT GLAZING CURB BASE - UNHEATED WAITING AREA
SCALE: 1:10



8 SECTION DETAIL AT DOOR
SCALE: 1:10

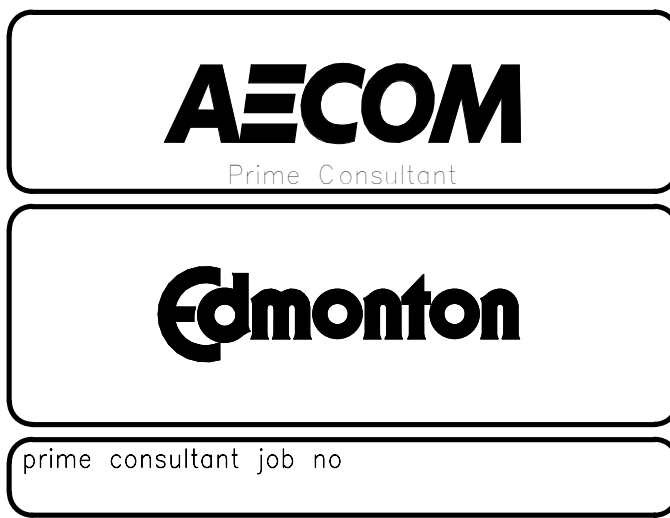
DETAIL KEYNOTES	
602	RIDGE CAP FLASHING BY MANUFACTURER
606	CONTINUOUS GALVANIZED STRUCTURAL STEEL PLATE
607	STRUCTURAL PLATE; PAINTED
608	DOOR OPERATOR
609	GALV. STEEL EMBED FOR PRECAST PANEL SUPPORT BY PRECAST SUPPLIER; SEAL AIR/VAPOUR MEMBRANE AROUND PRECAST ANCHOR; COORDINATE WITH PRECAST SUPPLIER
615	STRUCTURAL FRAMING; PAINTED
616	EMBEDDED STRUCTURAL ANGLE/CHANNEL; ALIGN TOP EDGE OF ANGLE TO SLOPED EDGE OF CONCRETE CURB (TYPICAL AT ALL EXPOSED CORNERS)
617	PREFINISHED ALUMINUM FLASHING
618	STAINLESS STEEL GLAZING CHANNEL; ALLOW FOR 25mm DEFLECTION BETWEEN GLASS AND GLAZING CHANNEL AT THE BASE OF ALL GLAZING WALLS
626	DRAINAGE BOARD
627	LOAD BEARING INSULATION
628	STRUCTURAL ANGLE
629	STRUCTURAL CONCRETE CURB
630	SCHEDULED DOOR FRAME
632	GALVANIZED STEEL GUTTER WITH ALL JOINTS WELDED & WATER TIGHT; APPLY CONTINUOUS ROOFING MEMBRANE ON ALL SIDES OF GUTTER; TYPICAL FOR ALL GUTTERS
633	100mm THICK TRANSLUCENT ROOF PANEL SYSTEM
634	STRUCTURAL COLUMN; PAINTED
635	STRUCTURAL FIN SUPPORT; PAINTED
637	PRECAST CONCRETE PANEL
639	PREFINISHED METAL FLASHING AROUND COLUMN; CUSTOM COLOR TO MATCH STRUCTURAL FRAMING
641	APPLY ROOFING MEMBRANE ON ALL INTERIOR FACES OF GUTTER
643	EDGE FLASHING BY ROOF PANEL SUPPLIER
646	PREFINISHED FLASHING TO MATCH WITH METAL CLADDING
647	ANTI BIRD DETERRENT SYSTEM
651	10mm THICK ISOLATION JOINT WITH FIBRE BOARD AND CONTINUOUS SEALANT ON TOP
652	SLAB ON GRADE
660	ANCHORING SYSTEM BY ROOF PANEL MANUFACTURER
664	PROVIDE FALL ARREST ANCHOR SYSTEM ANCHORED TO EACH STRUCTURAL FRAME ABOVE ROOF; TYPICAL AT ALL GRID LINES

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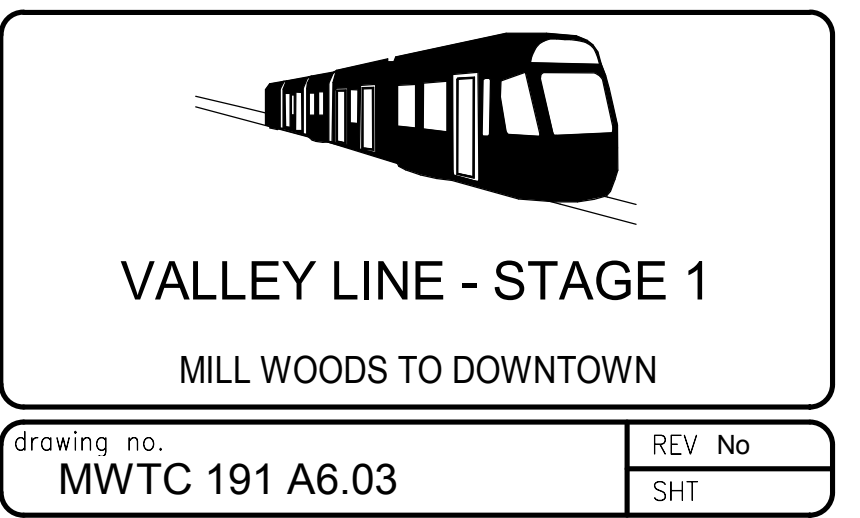
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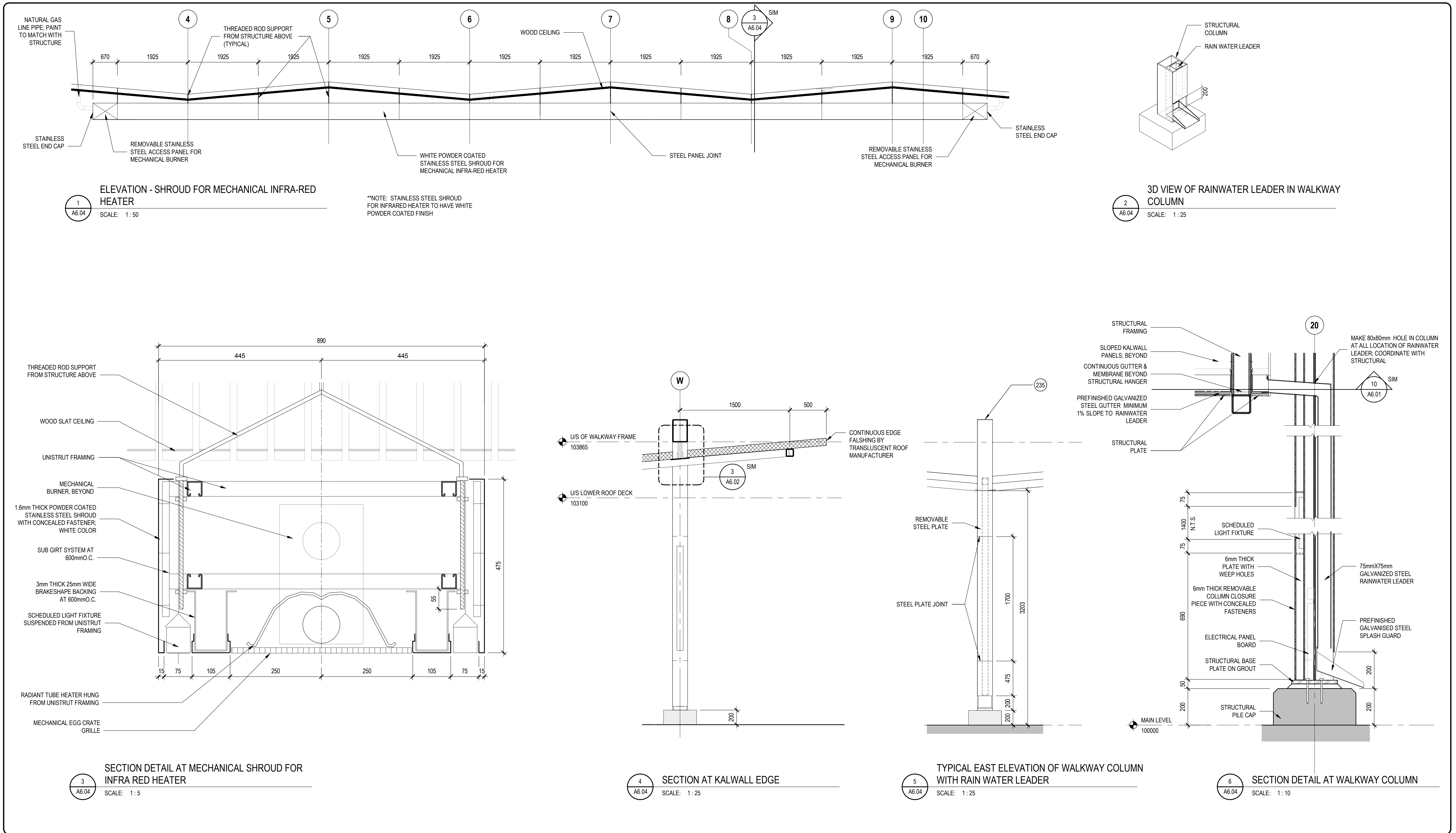
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drawing title MILL WOODS TRANSIT CENTRE PLAN AND SECTION DETAILS	
drawing no. MWTC 191 A6.03	REV No SHT





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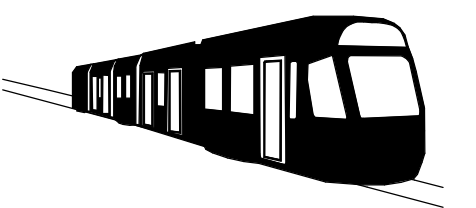
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VALLEY LINE - STAGE 1

MILL WOODS TO DOWNTOWN

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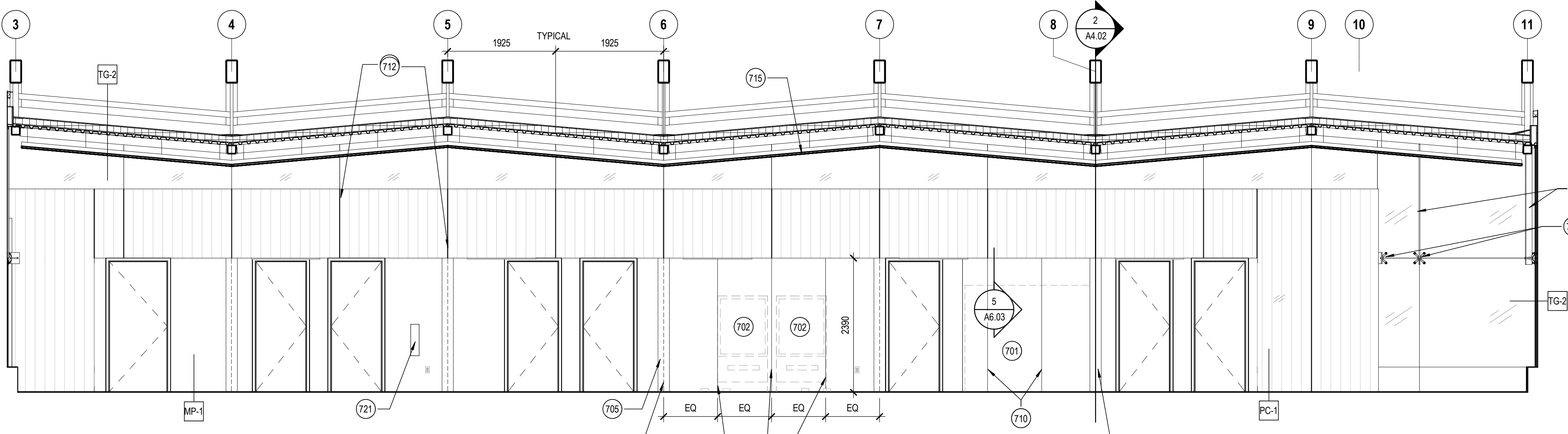
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**MILL WOODS TRANSIT CENTRE
PLAN AND SECTION DETAILS**

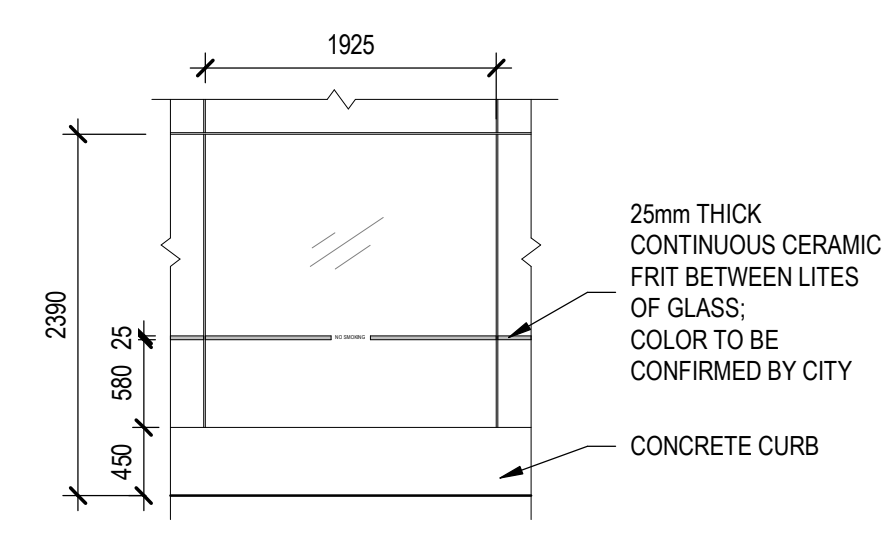
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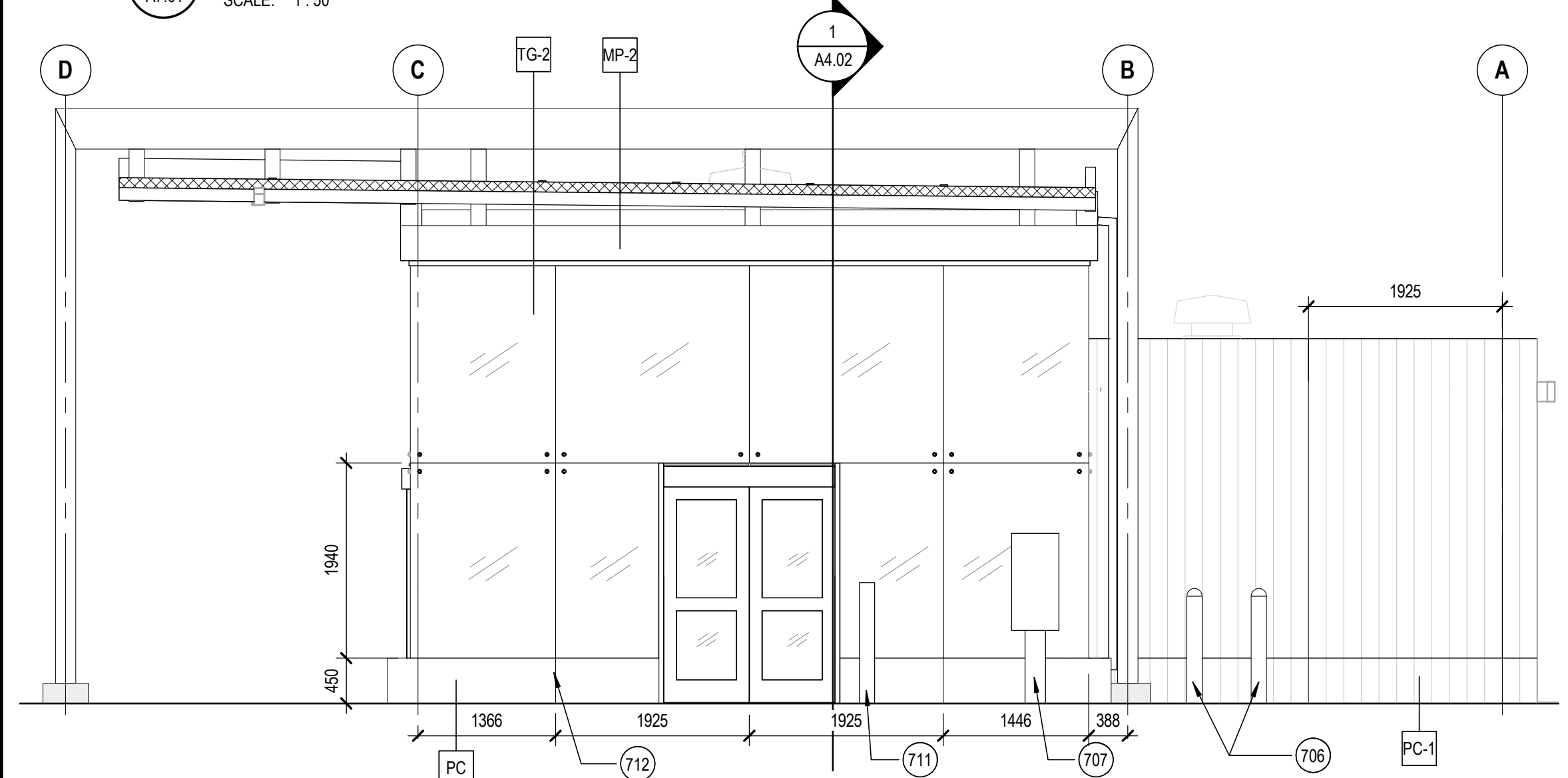
1 NORTH ELEVATION - HEATED WAITING AREA
A7.01 SCALE: 1:50



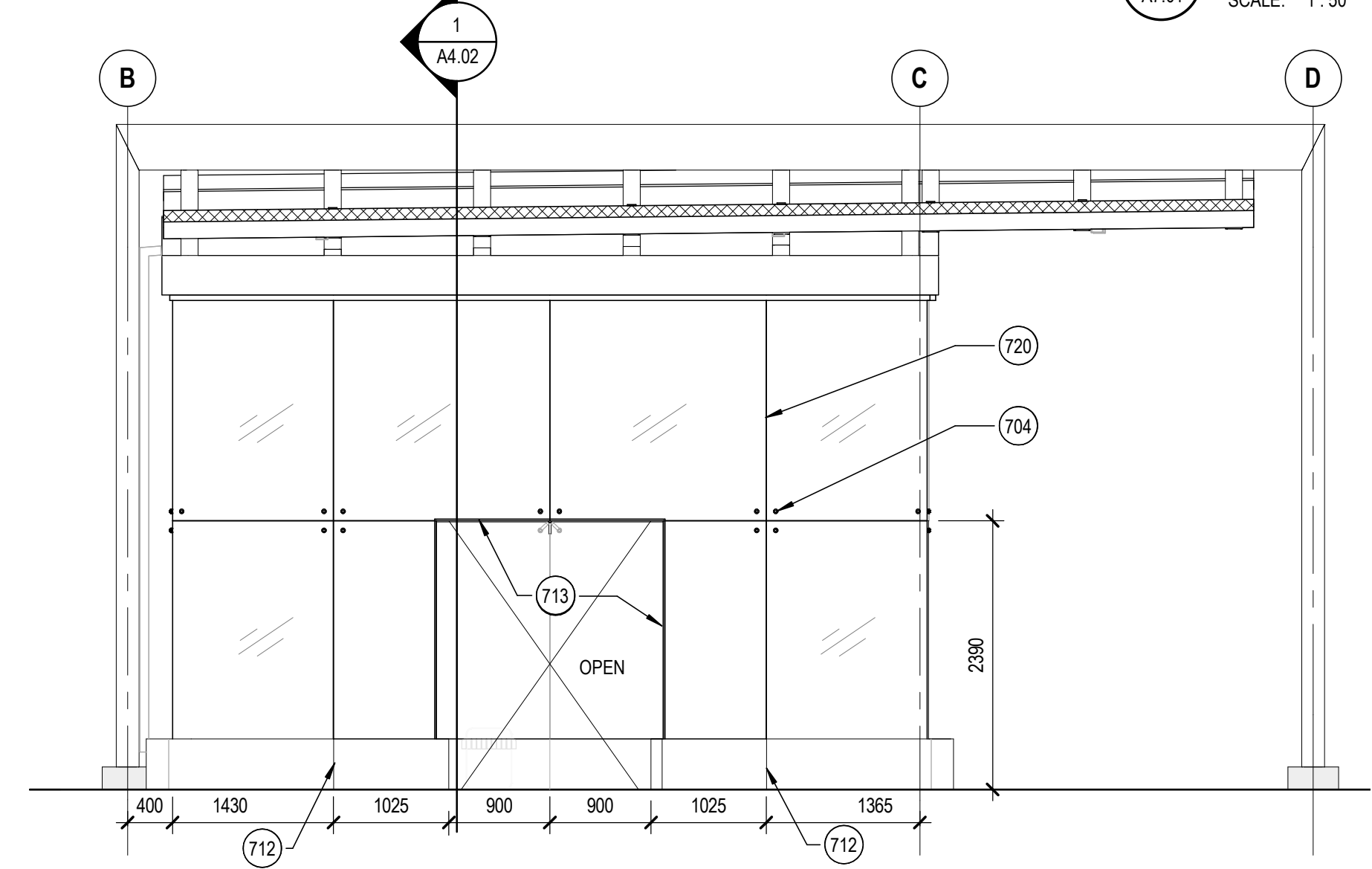
2 TYPICAL ELEVATION LOGO STRIP ON GLASS PANEL
A7.01 SCALE: 1:50

INTERIOR ELEVATION KEYNOTE	
701	VENDING MACHINE (N.I.C.)
702	TICKET VENDING MACHINE (N.I.C.)
703	STRUCTURAL VERTICAL FIN FOR GLAZING SUPPORT, PAINTED
704	SPIDER FITTING SUPPORT
705	STRUCTURAL COLUMN, PAINTED
706	CONCRETE FILLED BOLLARDS
707	EMERGENCY PHONE, FLOOR MOUNTED
710	VERTICAL JOINT ON STEEL PLATE WALL
711	150x150x1200mm ALUMINUM UPSTAND
712	PRECAST CONCRETE PANEL JOINT
713	ALUMINUM EDGE CAP FOR GLASS, TYPICAL FOR ALL EXPOSED GLASS EDGES
715	SCHEDULED WOOD SLAT CEILING
716	MECHANICAL RADIATION CABINET
717	MOP SINK
718	MILLWORK SHELF
719	INTERMEDIATE SUPPORT FOR COUNTER
720	GLASS PANEL JOINT FILLED WITH SILICONE SEALANT
721	RECESSED FIRE EXTINGUISHER

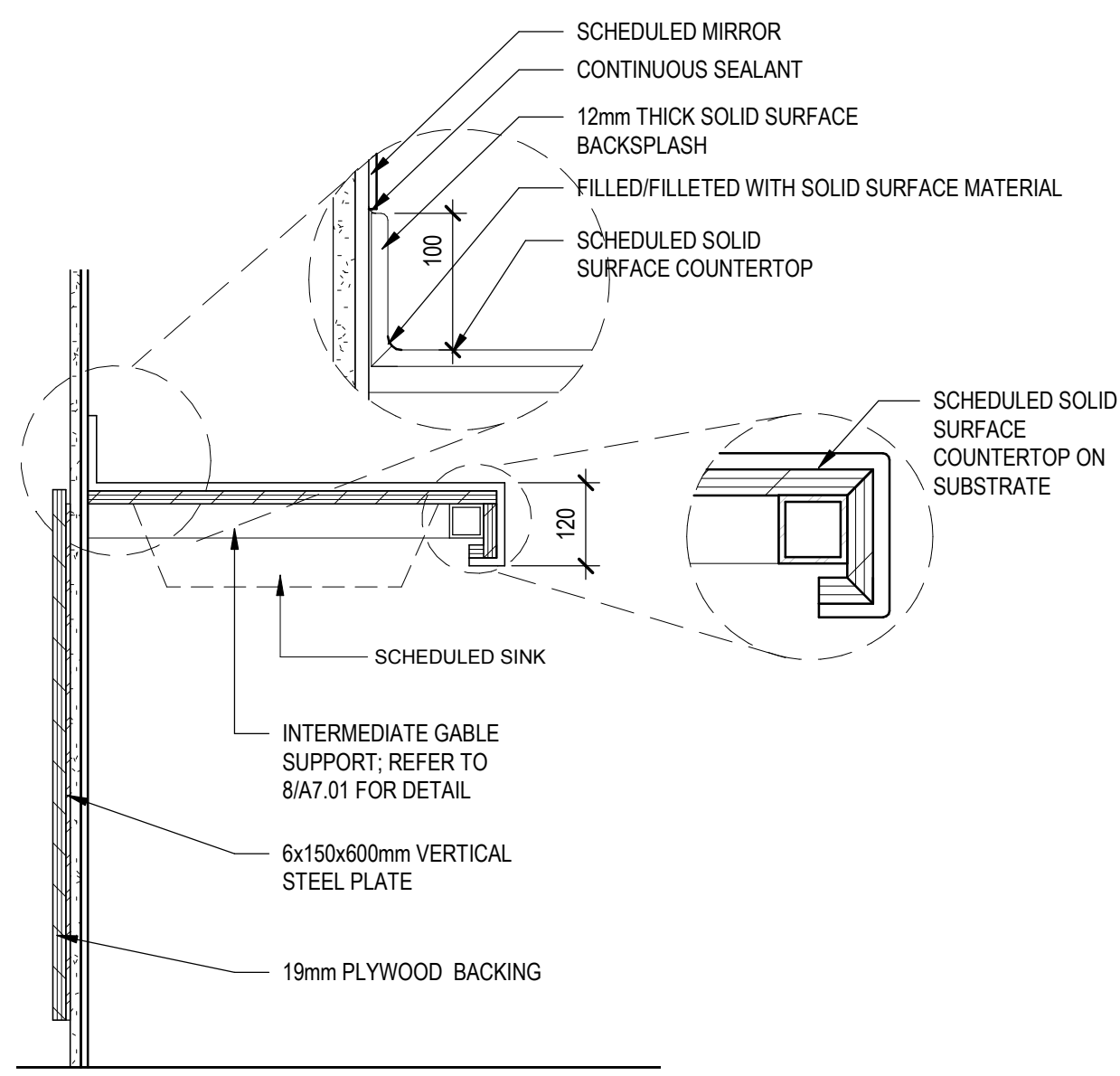
ELEVATION LEGEND	
PC	PRECAST CONCRETE PANEL
PC-1	PRECAST CONCRETE PANEL WITH FORM LINER
PC-2	PRECAST CONCRETE CAP WITH FORM LINER ON VERTICAL FACE
MP-1	METAL CLADDING (INTERIOR - HEATED WAITING AREA)
MP-2	METAL CLADDING (ABOVE GLAZING)
MP-3	METAL CAP FLASHING
TG-1	10mm THICK TEMPERED GLASS
TG-2	DOUBLE PANE INSULATED GLASS UNIT



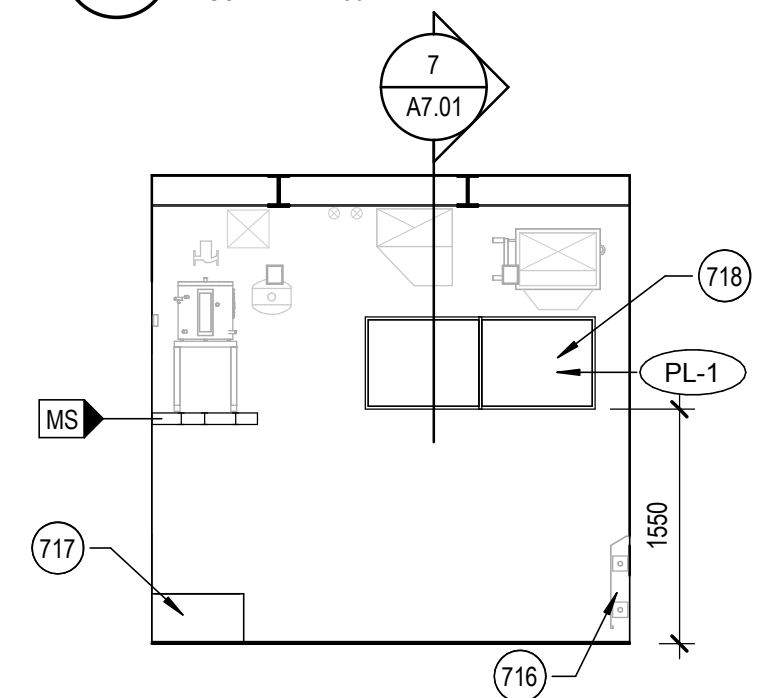
3 EAST ELEVATION - HEATED WAITING AREA
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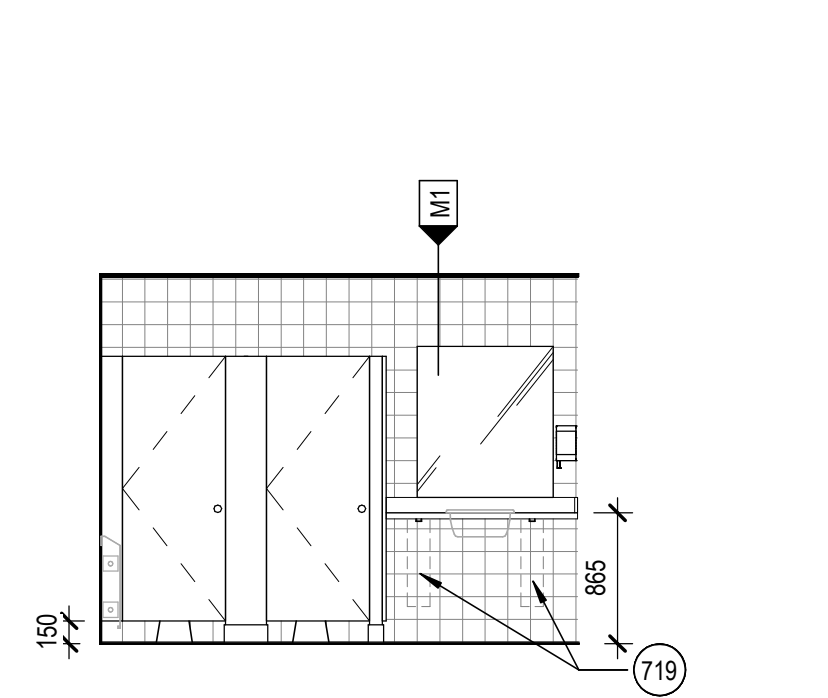
4 EAST ELEVATION - UNHEATED WAITING AREA
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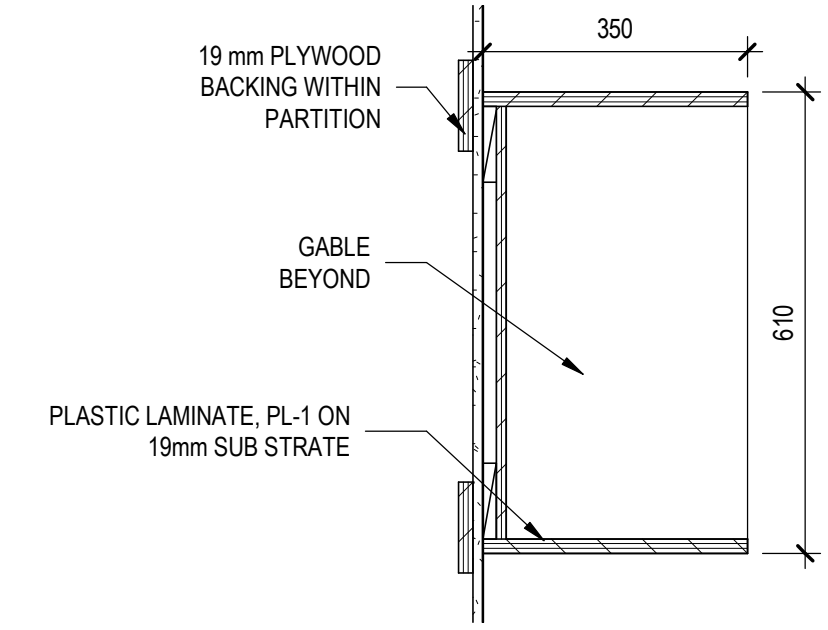
9 MILLWORK SECTION DETAIL
A7.01 SCALE: 1:10



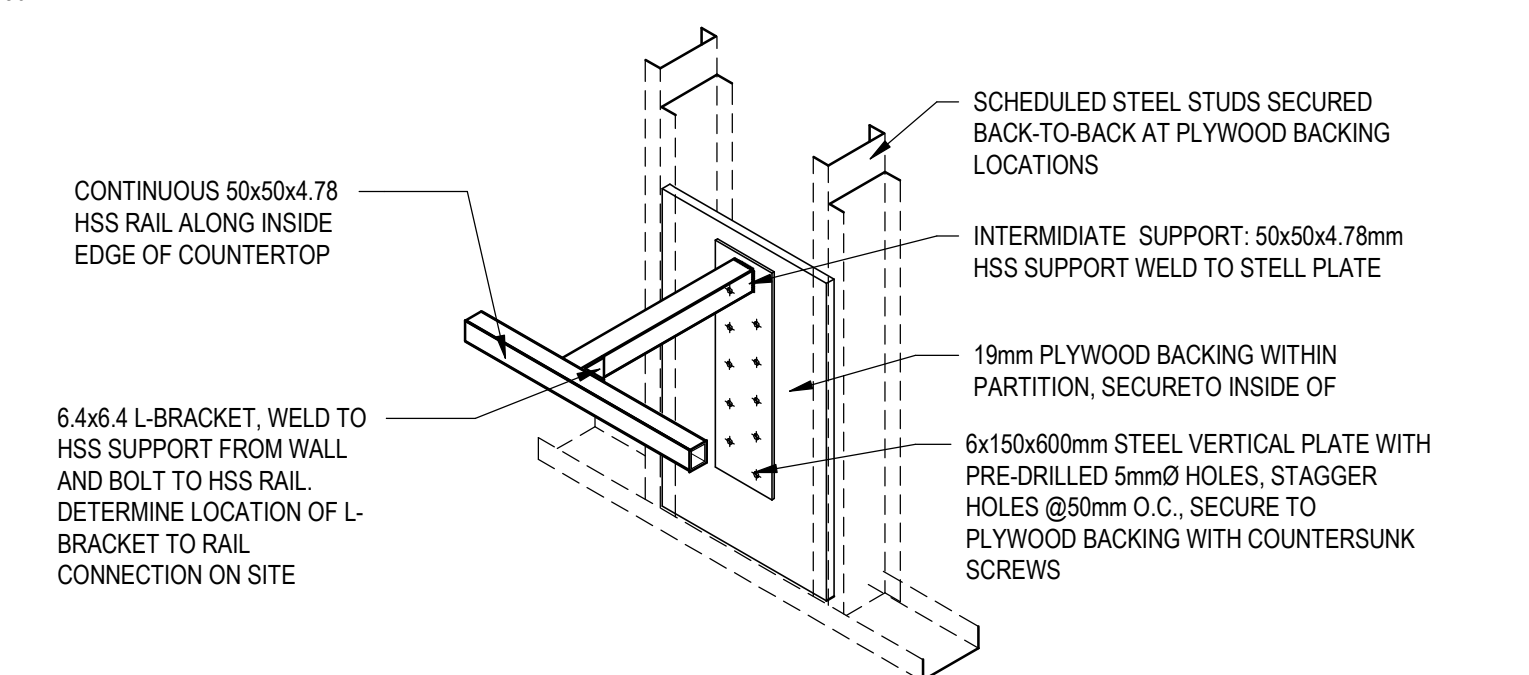
5 JANITOR ROOM - EAST ELEVATION
A7.01 SCALE: 1:50



6 FEMALE STAFF WC - EAST ELEVATION
A7.01 SCALE: 1:50



7 SECTION DETAIL AT MILLWORK SHELF
A7.01 SCALE: 1:10



8 INTERMEDIATE GABLE SUPPORT
A7.01 SCALE: 1:10

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**MILL WOODS TRANSIT CENTRE
INTERIOR ELEVATIONS**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 A7.01

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FINISHES LEGEND

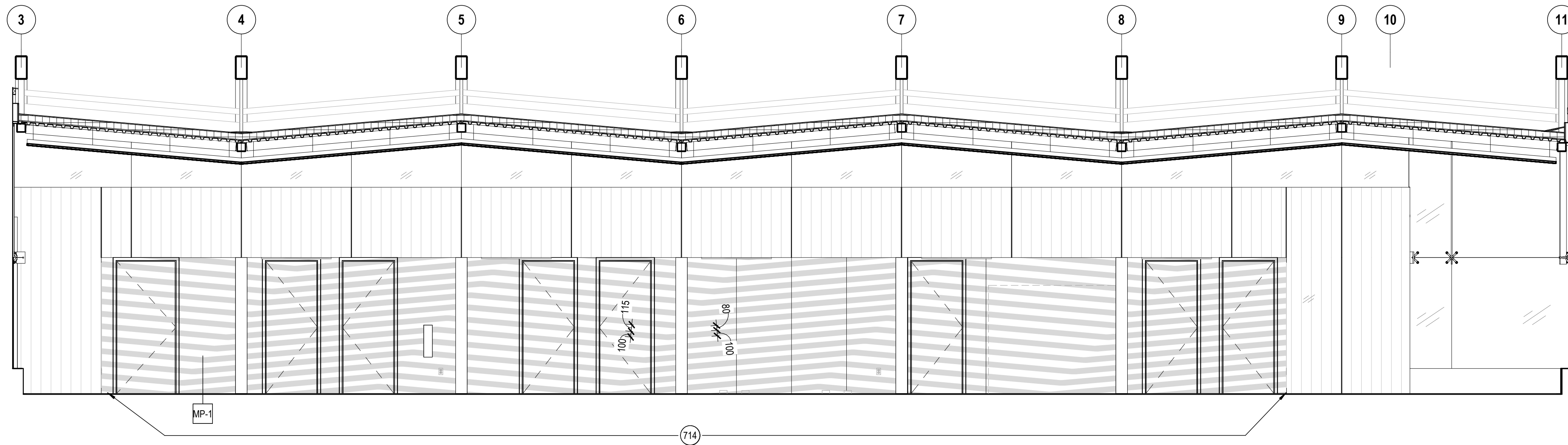
- CT-# CERAMIC TILE FINISH
- PT-# PORCELAIN TILE FINISH
- P#-G# PAINT FINISH
- PL-# PLASTIC LAMINATE FINISH
- RB-# RUBBER BASE
- WS WOOD SLAT CEILING
- SF-# SOLID SURFACE FINISH
- CD DENSIFIED CONCRETE

FINISHES PLAN GENERAL NOTES

1. PAINT ALL GYPSUM BOARD FACING WALL P1-G2 UNLESS OTHERWISE NOTED.
2. PAINT ALL GYPSUM BOARD CEILING P1-G1 UNLESS OTHERWISE NOTED.
3. PROVIDE RUBBER BASE RB-1 ON ALL GYPSUM BOARD FACING WALL.
4. PAINT ALL HOLLOW METAL DOORS AND PRESSED STEEL FRAMES P3-G5 UNLESS OTHERWISE NOTED.
5. PAINT ALL EXPOSED STRUCTURAL MEMBERS P2-G3 UNLESS OTHERWISE NOTED.
6. ALL FLOOR TILES TO BE PT-1 UNLESS OTHERWISE NOTED.
7. ALL WALL TILES IN WASHROOM TO BE CT-1 UNLESS OTHERWISE NOTED.
8. REFER TO CIVIL AND LANDSCAPE DRAWINGS FOR FLOOR FINISHES OUTSIDE HEATED TRANSIT CENTER BUILDING.

FINISHES PLAN KEYNOTES

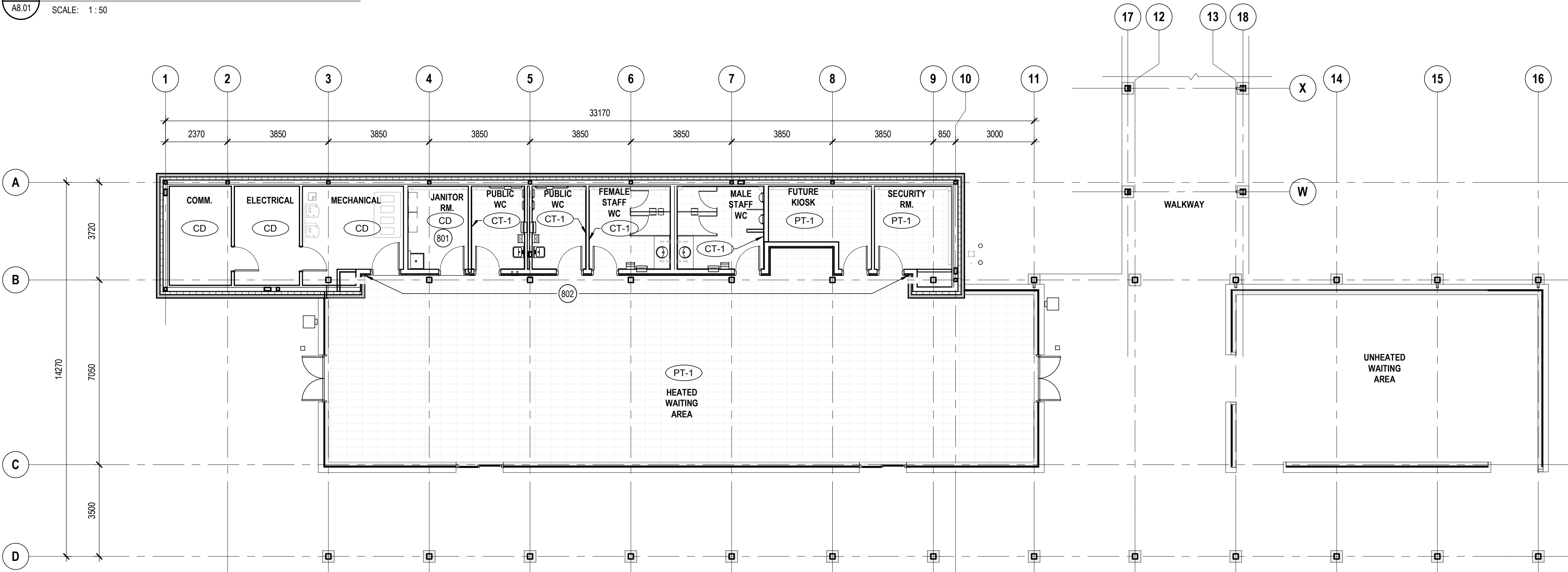
- | | |
|-----|--|
| 801 | APPLY FIBRE GLASS REINFORCED PANEL FINISH ON GYPSUM WALL WITHIN JANITOR ROOM |
| 802 | GRAPHIC ART WORK ON CUSTOM METAL PANEL WALL, DOOR AND DOOR FRAME |



**NORTH ELEVATION - HEATED WAITING AREA
METAL PANEL PAINTED PATTERN**

2
A8.01

SCALE: 1:50



1
A8.01

FINISHES PLAN

SCALE: 1:100

*NOTE FOR ART WORK ON WALL IN HEATED WAITING AREA:
ARTWORK GRAPHICS OR IMAGERY WILL BE DESIGNED BY
CONSULTANT TEAM TO BE EXECUTED ONTO METAL PANELS BY
THE GENERAL CONTRACTOR IN A MANNER THAT IT IS
PERMANENT AND MEETS THE GRAPHIC REQUIREMENTS OF THE
PROJECT TEAM

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**MILL WOODS TRANSIT CENTRE
FINISHES PLAN**

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VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

<small>drawing no.</small> MWTC 191 A8.01	<small>REV No</small> SHT
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EMBEDMENT AND LAP SPLICE TABLE				
CONCRETE STRENGTH = 25 MPa				
HORZ TOP BARS				
BAR SIZE	TENSION LAP	TENSION EMBED	COMP LAP	COMP EMBED
10M	500	375	300	200
15M	750	575	450	300
20M	975	750	600	400
25M	1525	1175	750	500
30M	1850	1425	900	600
35M	2150	1650	1025	675

EMBEDMENT AND LAP SPLICE TABLE				
CONCRETE STRENGTH = 30 MPa				
HORZ TOP BARS				
BAR SIZE	TENSION LAP	TENSION EMBED	COMP LAP	COMP EMBED
10M	450	350	300	200
15M	675	525	450	275
20M	900	700	600	375
25M	1400	1075	750	450
30M	1675	1300	900	550
35M	1950	1500	1025	625

EMBEDMENT AND LAP SPLICE TABLE				
CONCRETE STRENGTH = 35 MPa				
HORZ TOP BARS				
BAR SIZE	TENSION LAP	TENSION EMBED	COMP LAP	COMP EMBED
10M	425	325	300	200
15M	625	475	450	275
20M	825	650	600	375
25M	1300	1000	750	450
30M	1550	1200	900	550
35M	1800	1400	1025	625

- TABLE NOTES:
- BASED ON CAN/CSA A23.3-04(R2010).
 - COLUMN AND BEAM BARS ENCLOSED BY MINIMUM STIRRUPS OR TIES UNLESS NOTED OTHERWISE.
 - CLEAR SPACING AT LEAST 2.0 x BAR DIAMETER FOR SLABS OR WALLS; 1.4 x BAR DIAMETER FOR COLUMNS OR ZONES.
 - WHERE BARS OF DIFFERENT DIAMETERS ARE LAPPED, PROVIDE LAP LENGTH BASED ON SMALLER BAR DIAMETER.

MINIMUM SLAB REINFORCEMENT TABLE		
SLAB THICKNESS (mm)	INTERIOR SLABS (As = 0.002*Ag)	EXTERIOR SLABS (As = 0.0025*Ag)
≤ 100	10M @ 450	10M @ 400
100 - 125	10M @ 400	10M @ 320
126 - 150	10M @ 330	10M @ 265
151 - 175	10M @ 285	10M @ 225
176 - 200	10M @ 250	10M @ 400 (T&B)
201 - 250	10M @ 400 (T&B)	10M @ 320 (T&B)
251 - 300	10M @ 325 (T&B)	10M @ 265 (T&B)

- TABLE NOTES:
- PROVIDE MINIMUM REINFORCING EACH WAY IN SLABS AND TOPPING WITHOUT SPECIFIED REINFORCING.
 - PROVIDE MINIMUM REINFORCING PERPENDICULAR TO PRINCIPAL REINFORCEMENT IN ALL SLABS. PLACE ALTERNATING TOP AND BOTTOM WHERE TOP REINFORCING SPECIFIED.

MINIMUM WALL REINFORCEMENT TABLE		
WALL THICKNESS (mm)	DIRECTION	REINFORCEMENT
150	HORIZONTAL	10M @ 330 1 LAYER
	VERTICAL	10M @ 450 1 LAYER
175	HORIZONTAL	10M @ 285 1 LAYER
	VERTICAL	10M @ 380 1 LAYER
200	HORIZONTAL	10M @ 250 1 LAYER
	VERTICAL	10M @ 330 1 LAYER
250	HORIZONTAL	10M @ 400 EACH FACE
	VERTICAL	10M @ 500 EACH FACE
300	HORIZONTAL	10M @ 330 EACH FACE
	VERTICAL	10M @ 450 EACH FACE
350	HORIZONTAL	10M @ 285 EACH FACE
	VERTICAL	10M @ 380 EACH FACE
400	HORIZONTAL	10M @ 250 EACH FACE
	VERTICAL	10M @ 330 EACH FACE

- TABLE NOTES:
- PROVIDE MINIMUM REINFORCING IN WALLS WITHOUT SPECIFIED REINFORCING. HORIZONTAL AS_{min} = 0.002Ag, VERTICAL AS_{min} = 0.0015Ag.
 - PLACE 2-15M AT TOP AND 2-20M AT BOTTOM OF EACH WALL UNLESS SHOWN OTHERWISE.

ABBREVIATIONS

ADDL	ADDITIONAL	LOCN	LOCATION
AFF	ABOVE FINISHED FLOOR	LP	LOW POINT
ALT	ALTERNATING	LSH	LONG SIDE HORIZONTAL
ARCH	ARCHITECTURAL	LSV	LONG SIDE VERTICAL
BCE	BOTTOM CHORD EXTENSION	MAX	MAXIMUM
BGL	BELOW GROUND LEVEL	MC	MOMENT CONNECTION
BL	BOTTOM LOWER LAYER	MECH	MECHANICAL
BM	BEAM	MF	MOMENT FORCE, FACTORED
BOT	BOTTOM	MID	MIDDLE
B/O	BOTTOM OF	MIN	MINIMUM
BTWN	BETWEEN	MIR	MIRRORED
BL	BOTTOM LOWER LAYER	NIC	NOT IN CONTRACT
BUL	BOTTOM UPPER LAYER	NTS	NOT TO SCALE
CANT	CANTILEVER	o/c	ON CENTRE
o/c	CENTRE TO CENTRE	OD	OUTSIDE DIAMETER
CF	COMPRESSION FORCE, FACTORED	O/F	OUTSIDE FACE
CIP	CAST IN PLACE	o/p	OUT TO OUT
CJ	CONTRACTION JOINT	OPP	OPPOSITE
CJP	COMPLETE JOINT PENETRATION	OWSJ	OPEN WEB STEEL JOIST
CLT	CROSS-LAMINATED TIMBER	PJP	PARTIAL JOINT PENETRATION
CL	CENTRELINE	PL	PLATE
CO	CLEAN OUT	PT	POST TENSIONING
COL	COLUMN	RD	ROOF DRAIN
CONC	CONCRETE	REINF	REINFORCE OR REINFORCING
CONN	CONNECTION	REM	REMAINDER
CONT	CONTINUOUS	REQ'D	REQUIRED
C/S	COUNTERSUNK	REV	REVISION
C/W	COMPLETE WITH	RHE	RIGHT HAND END
DEMO	DEMOLITION	RO	ROUGH OPENING
DET	DETAIL	rw	REINFORCED WITH
DIA	DIAMETER	SCHED	SCHEDULE
DN	DOWN	SDL	SUPERIMPOSED DEAD LOAD
DO	DITTO	SIM	SIMILAR
DP	DEEP	SOG	SLAB ON GRADE
DWG	DRAWING	SPECS	SPECIFICATIONS
E/E	EACH END	SPMDD	STANDARD PROCTOR
E/F	EACH FACE		MAXIMUM DRY DENSITY
ELEC	ELECTRICAL	STAG	STAGGERED
ELEV	ELEVATION	STD	STANDARD
EP	EMBEDDED PLATE	STIR	STIRRUP
EQ	EQUAL	STRUCT	STRUCTURAL
E/S	EACH SIDE	T&B	TOP AND BOTTOM
E/W	EACH WAY	TCE	TOP CHORD EXTENSION
EXIST	EXISTING	TEMP	TEMPORARY
EXT	EXTERIOR	TF	TENSION FORCE, FACTORED
FD	FLOOR DRAIN	THK	THICK
FDN	FOUNDATION	THRU	THROUGH
FTG	FOOTING	TJ	TIE JOIST
GALV	GALVANIZED	TLL	TOP LOWER LAYER
GB	GRADE BEAM	T/O	TOP OF
GL	GRIDLINE	TOC	TOP OF CONCRETE
HEE	HOOK EACH END	TOS	TOP OF STEEL
HEF	HORIZONTAL EACH FACE	TUL	TOP UPPER LAYER
HIF	HORIZONTAL INSIDE FACE	TYP	TYPICAL
HOF	HORIZONTAL OUTSIDE FACE	UNO	UNLESS NOTED OTHERWISE
HOR	HORIZONTAL	UIS	UNDERSIDE
HP	HIGH POINT	VEF	VERTICAL EACH FACE
ID	INTERIOR DIAMETER	VERT	VERTICAL
I/F	INSIDE FACE	VF	SHEAR FORCE, FACTORED
INFO	INFORMATION	VIF	VERTICAL INSIDE FACE
INT	INTERIOR	VOF	VERTICAL OUTSIDE FACE
INV	INVERT	w/	WITH
LG	LONG	WP	WORK POINT
LHE	LEFT HAND END	WWF	WELDED WIRE FABRIC
LL	LIVE LOAD		
LLBB	LONG LEG BACK TO BACK		
LLH	LONG LEG HORIZONTAL		
LLV	LONG LEG VERTICAL		

HATCH LEGEND

	CAST-IN-PLACE CONCRETE		GRAVEL
	CAST-IN-PLACE CONCRETE BEYOND		CONCRETE BLOCK
	PRECAST CONCRETE		TRANSFER STRUCTURE
	PRECAST CONCRETE BEYOND		SNOW/RAIN LOAD
	EXISTING CONCRETE		STEEL
	COMPRESSIBLE MATERIAL		VOID FORM
	DEMOLITION		WOOD
	EARTH		GROUT

SYMBOLS & NOTATIONS

	DIAMETER		BOTTOM REINFORCING BAR
	CENTRE LINE		TOP REINFORCING BAR
	COMPOSITE DECK/ STEEL DECK SPAN DIRECTION		DENOTES 10M BAR OF LENGTH 600 PLUS THE STANDARD HOOK FOR A 10M BAR
	FLOOR DRAIN		DENOTES 10M U-BAR WITH 600 LONG LEGS
	ROOF DRAIN		DENOTES 10M BAR OF LENGTH 600 PLUS THE STANDARD HOOK FOR A 10M BAR ON EACH END
	DENOTES 15M GALVANIZED BAR		DENOTES 10M BAR OF LENGTH 600 PLUS THE STANDARD HOOK FOR A 10M BAR ON EACH END
	NUMBERS DENOTE CONCRETE BEAM/ SLAB MIDSPAN UPWARD CAMBER, LETTERS DENOTE RAFT REINF ARRANGEMENT TYPES		FALL ARREST ANCHOR
	BEAM PENETRATION MARK SYMBOL		SLAB STEP
	STUD RAIL MARK SYMBOL		
	CHANNEL FACE DIRECTION ON PLAN		
	SPOT ELEVATION		
	SPOT ELEVATION OF UNDERSIDE STEEL DECK WITH RESPECT TO SPECIFIED ELEVATION ON PLAN		
	SLAB DEPRESSION FOR FLOOR DRAIN		

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MILL WOODS TRANSIT CENTER GENERAL NOTES - SHEET 2

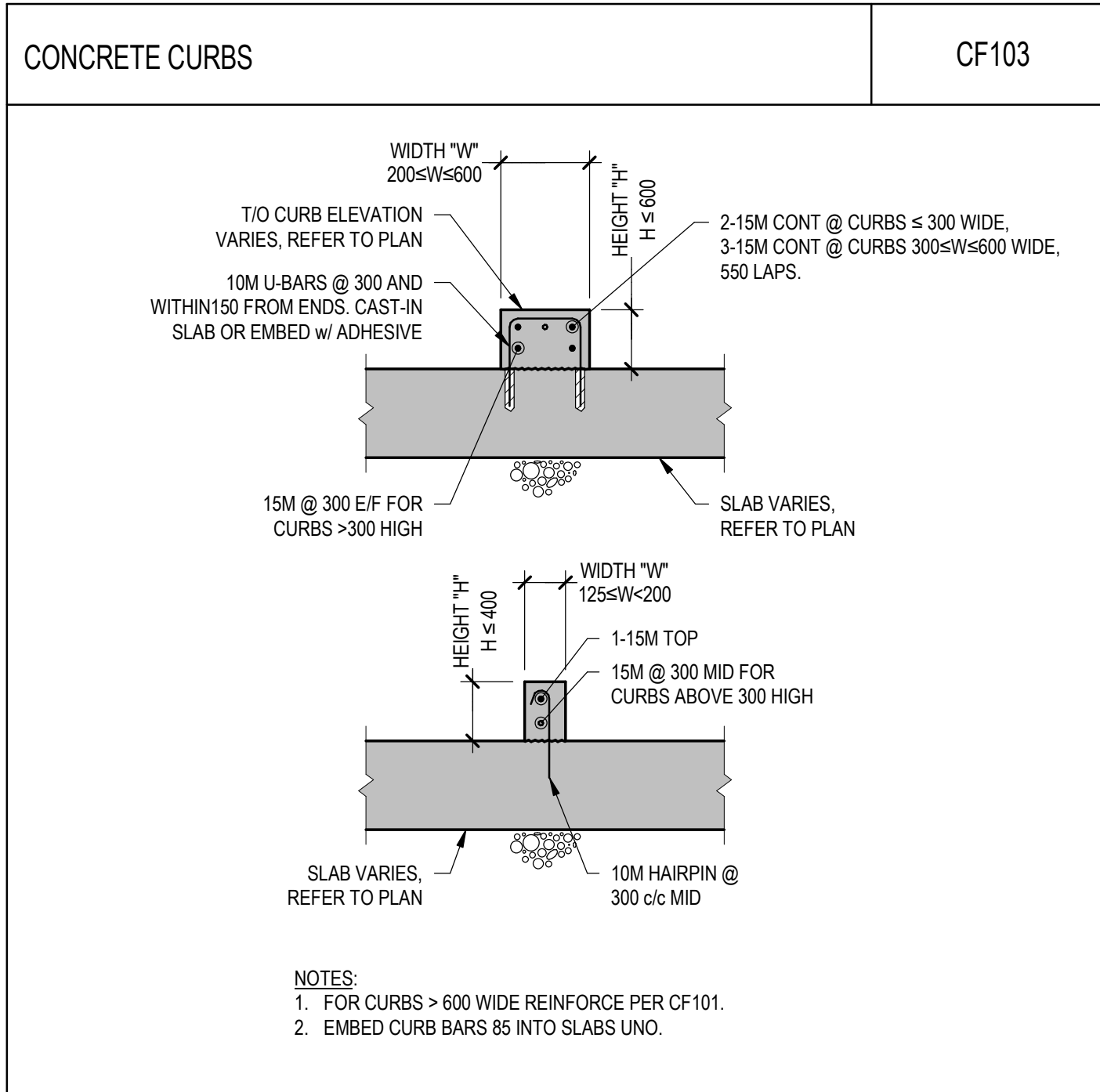
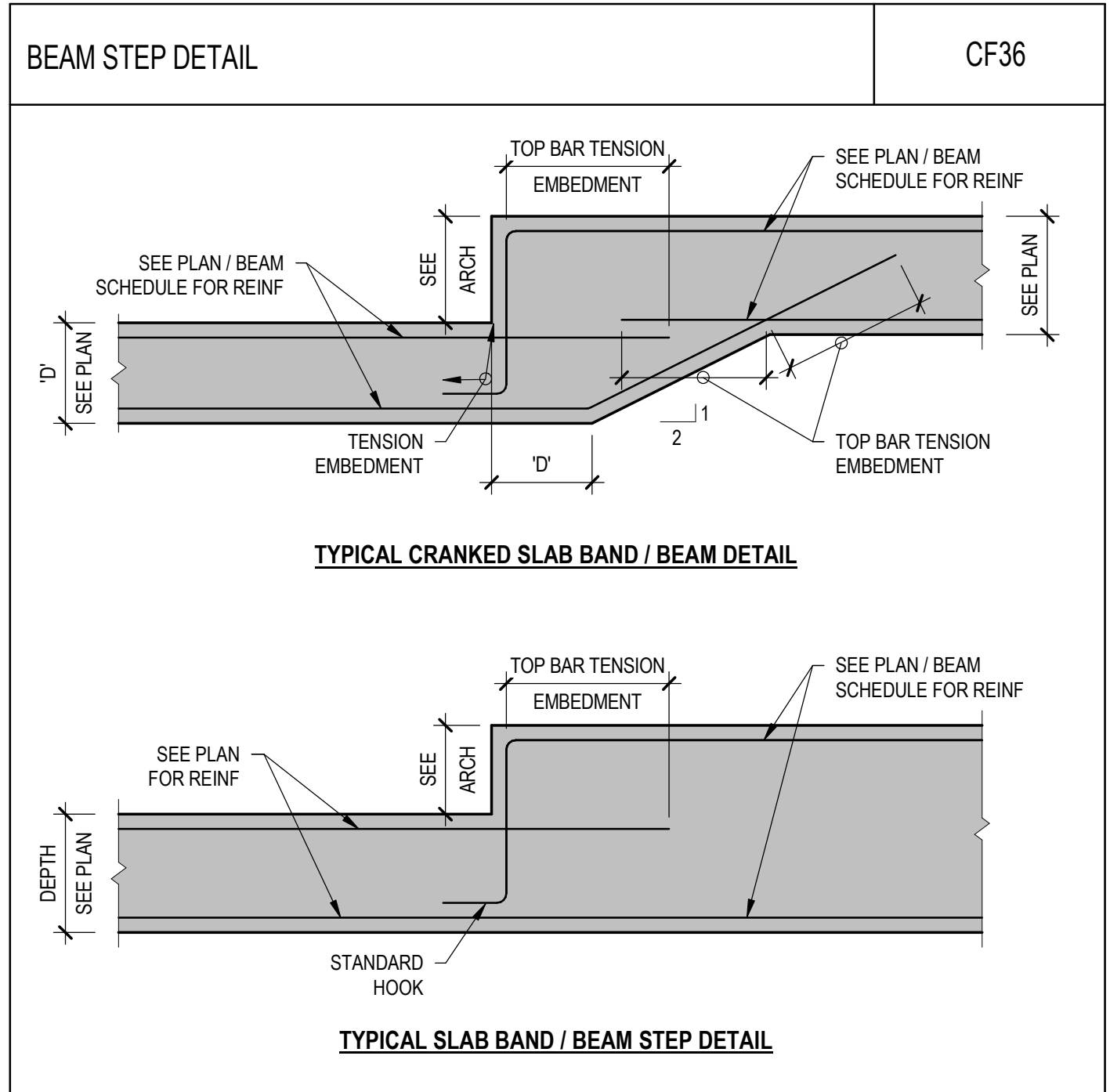
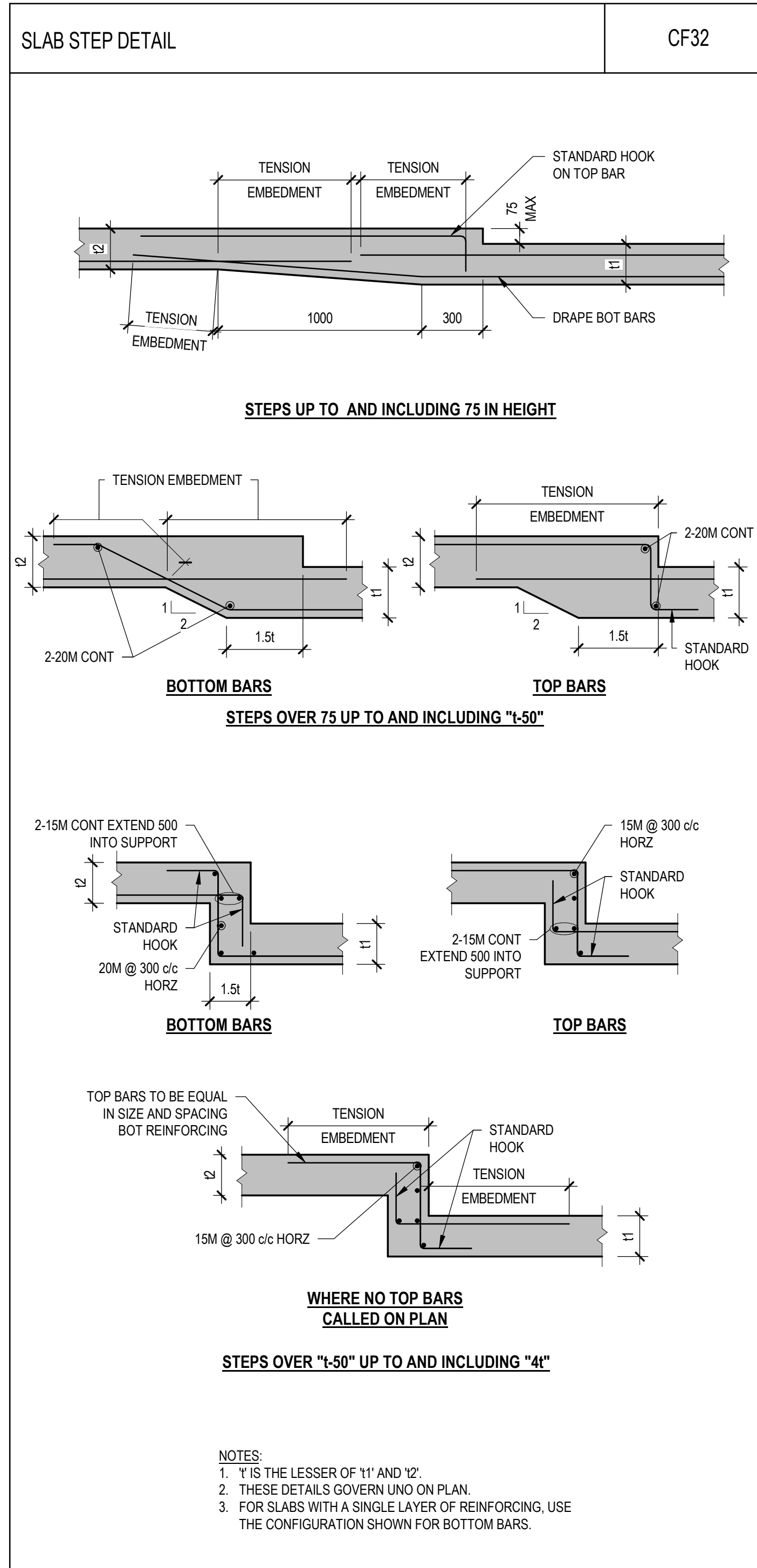
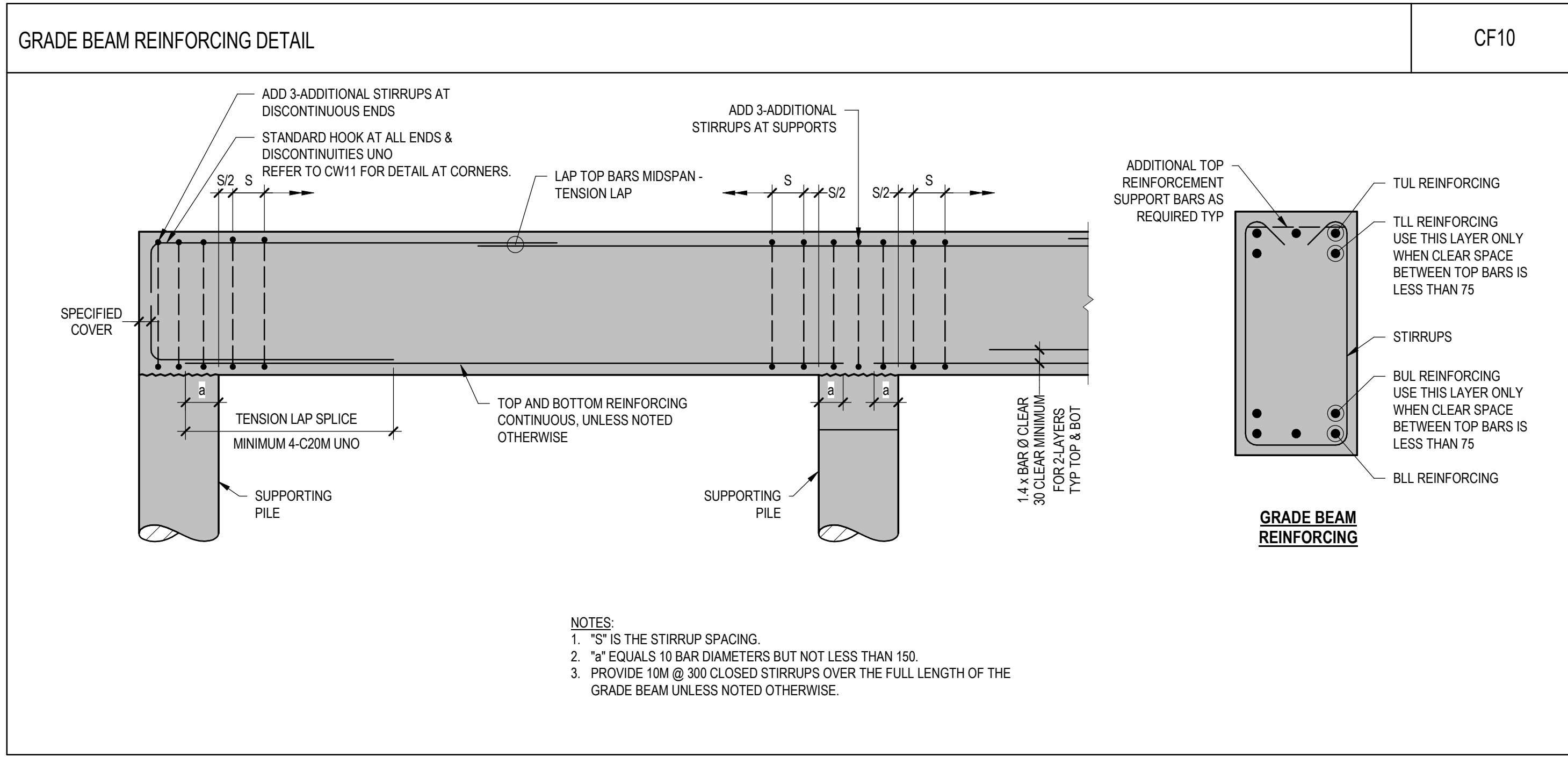
VALLEY LINE - STAGE 1

MILL WOODS TO DOWNTOWN

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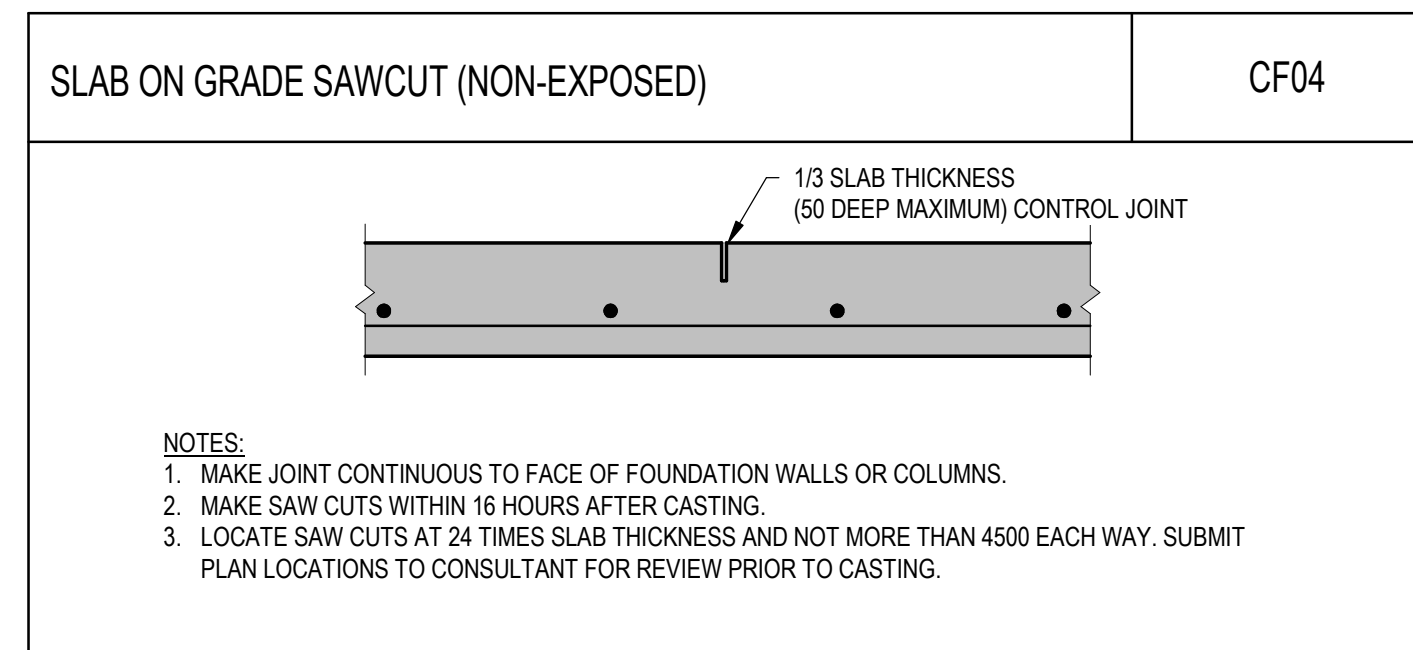
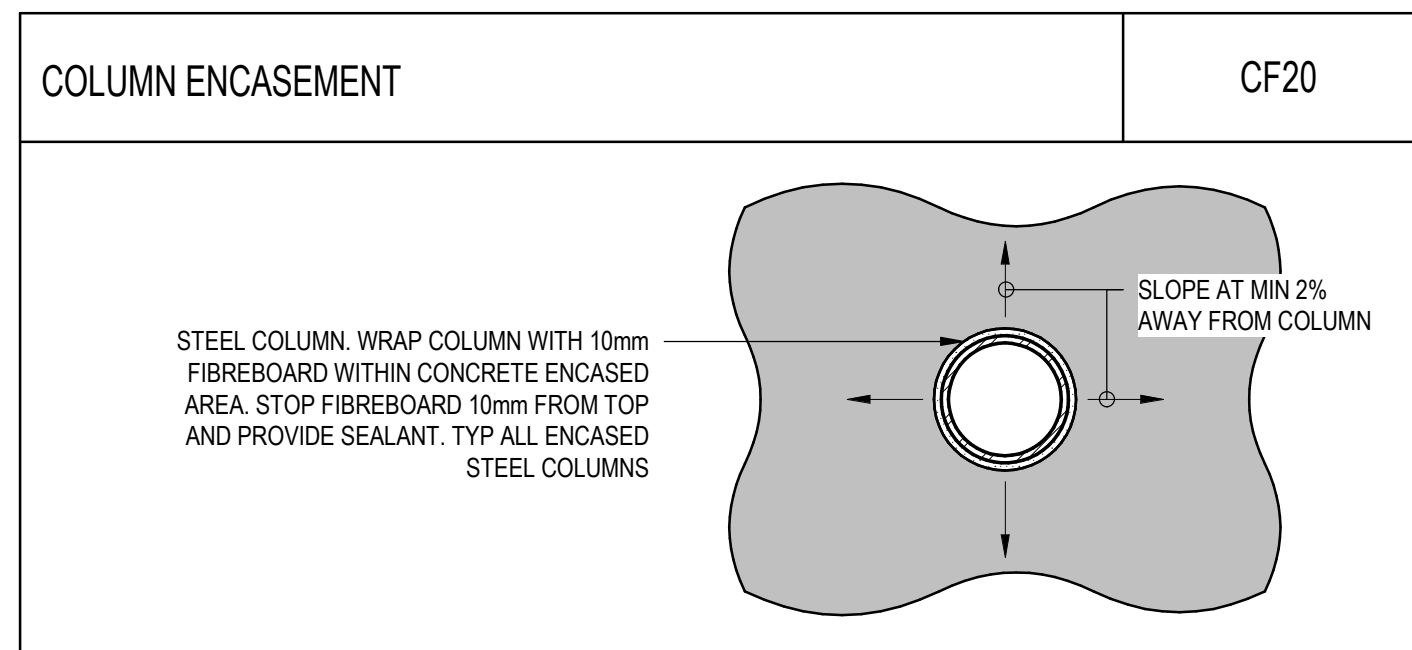
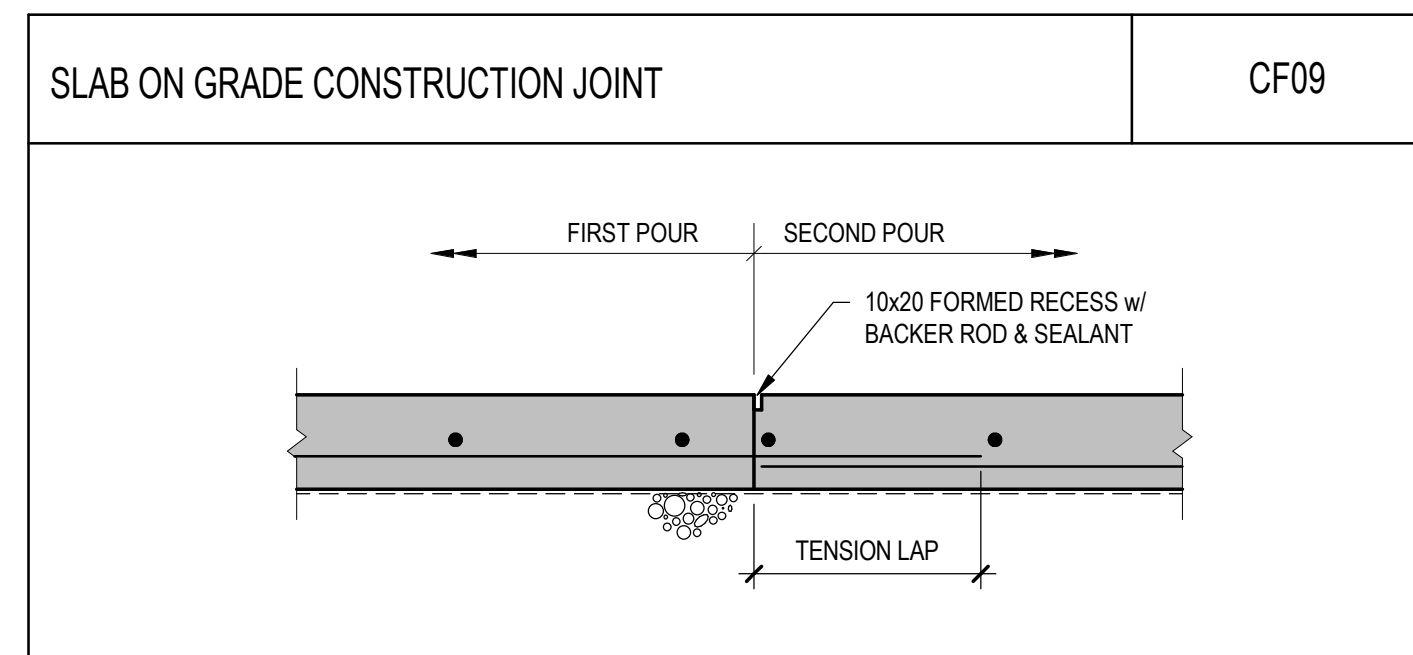
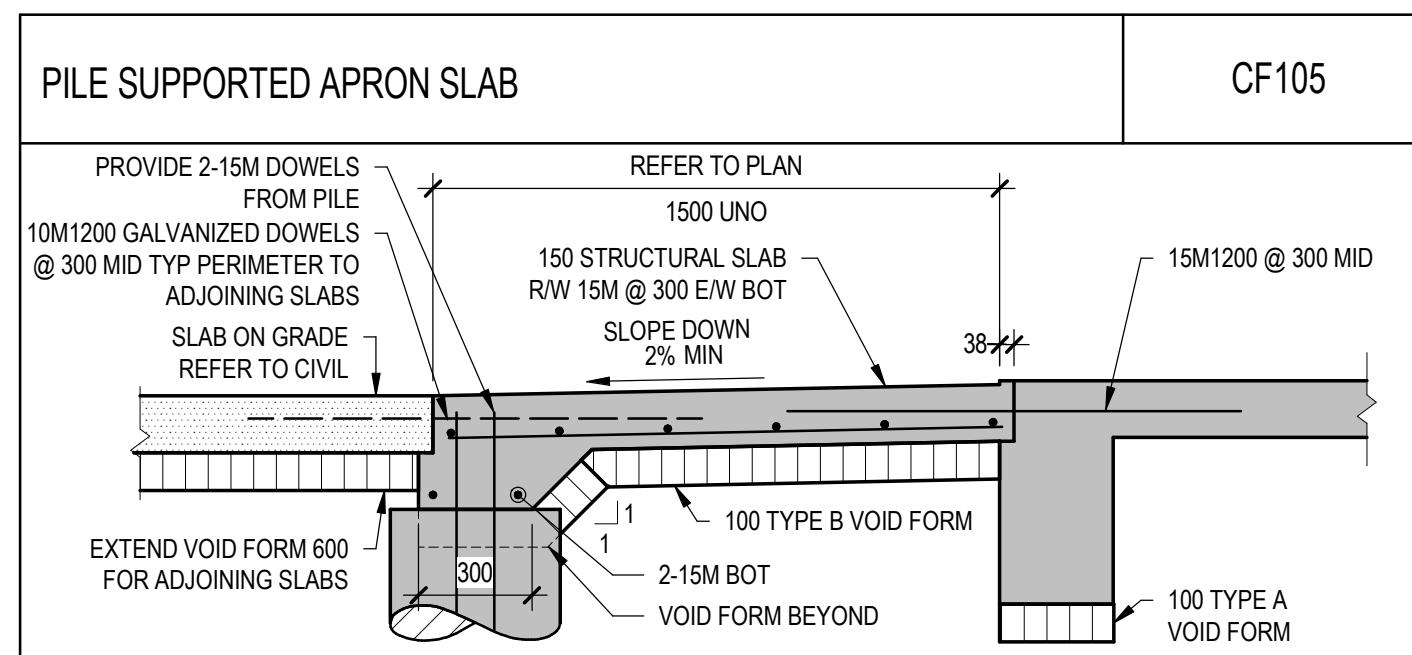
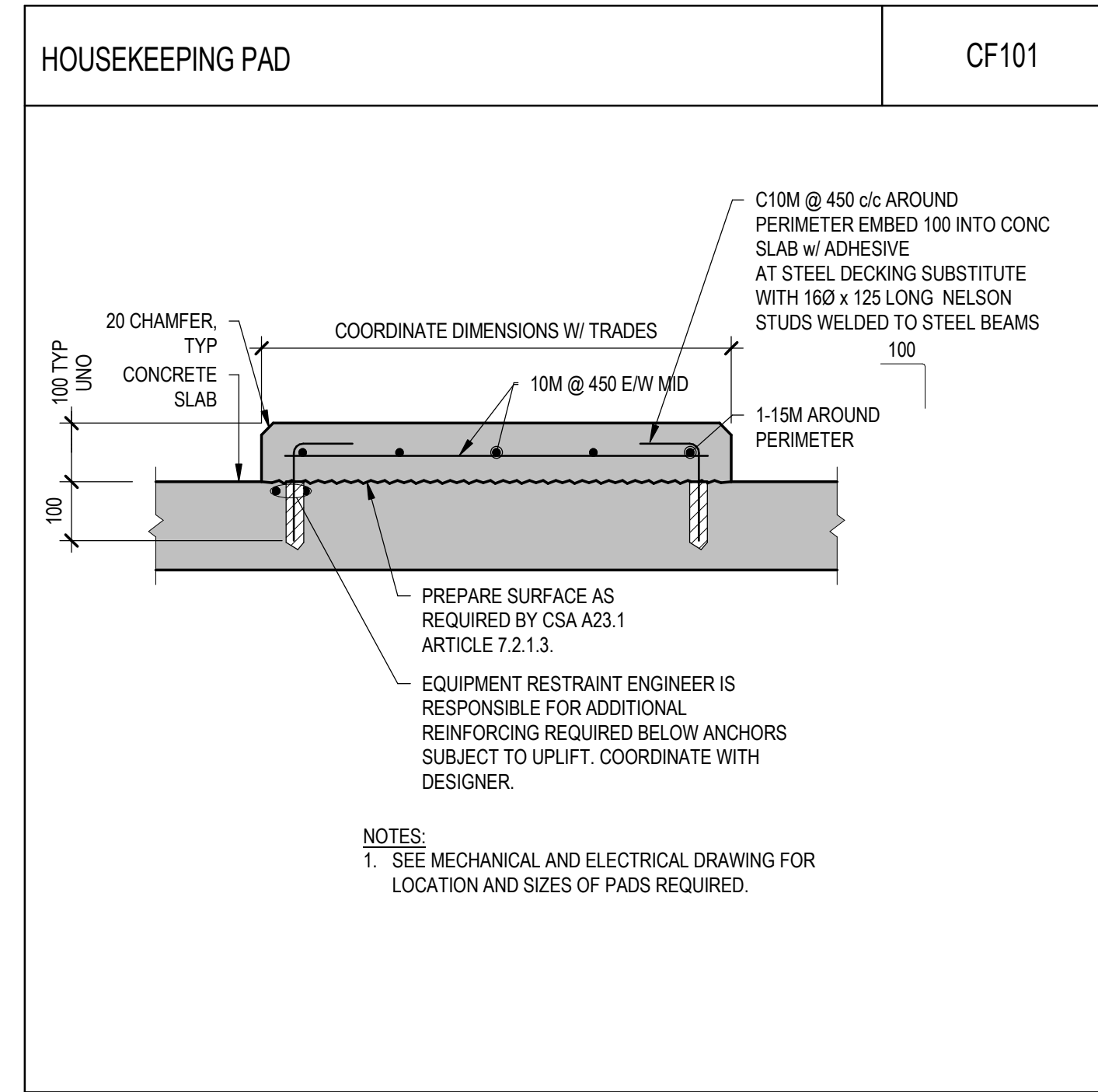
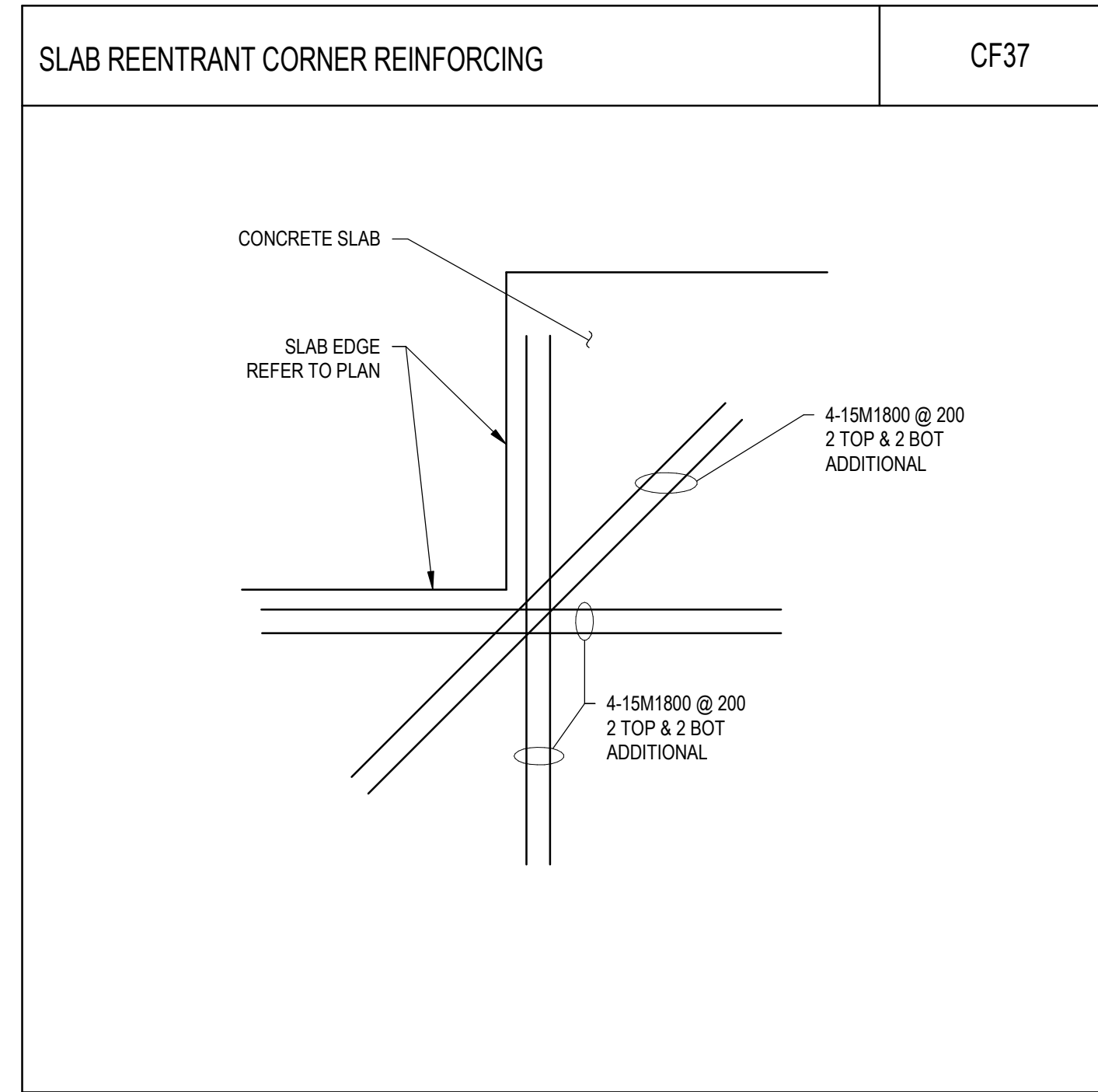
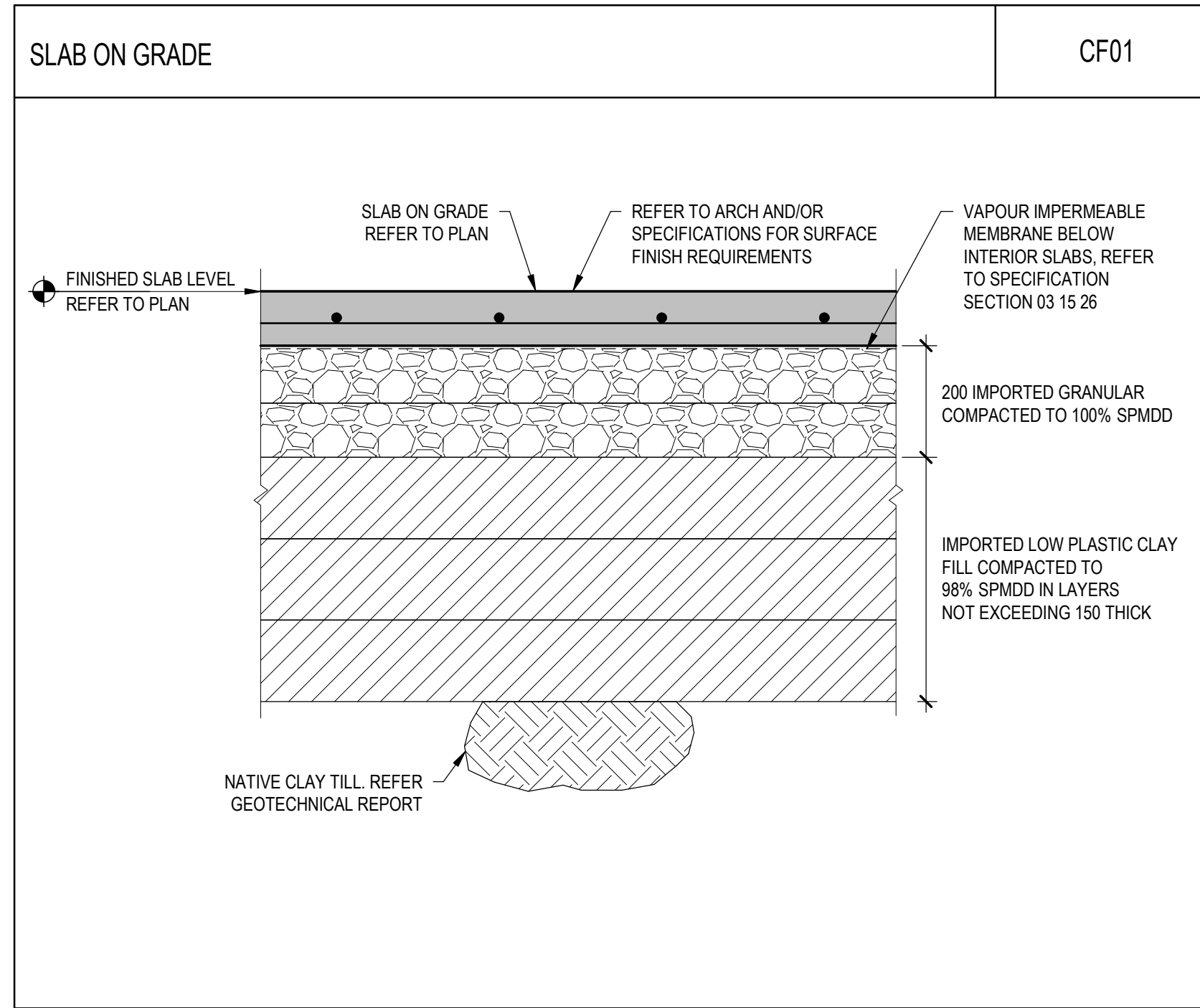
gec architecture

drawing title
**MILL WOODS TRANSIT CENTER
TYPICAL DETAILS - SHEET 1**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S0.03
REV 0
SHT

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AECOM Prime Consultant

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ISL Engineering and Land Services

DIALOG

gpc architecture

drawing title

MILL WOODS TRANSIT CENTER TYPICAL DETAILS - SHEET 2

VALLEY LINE - STAGE 1

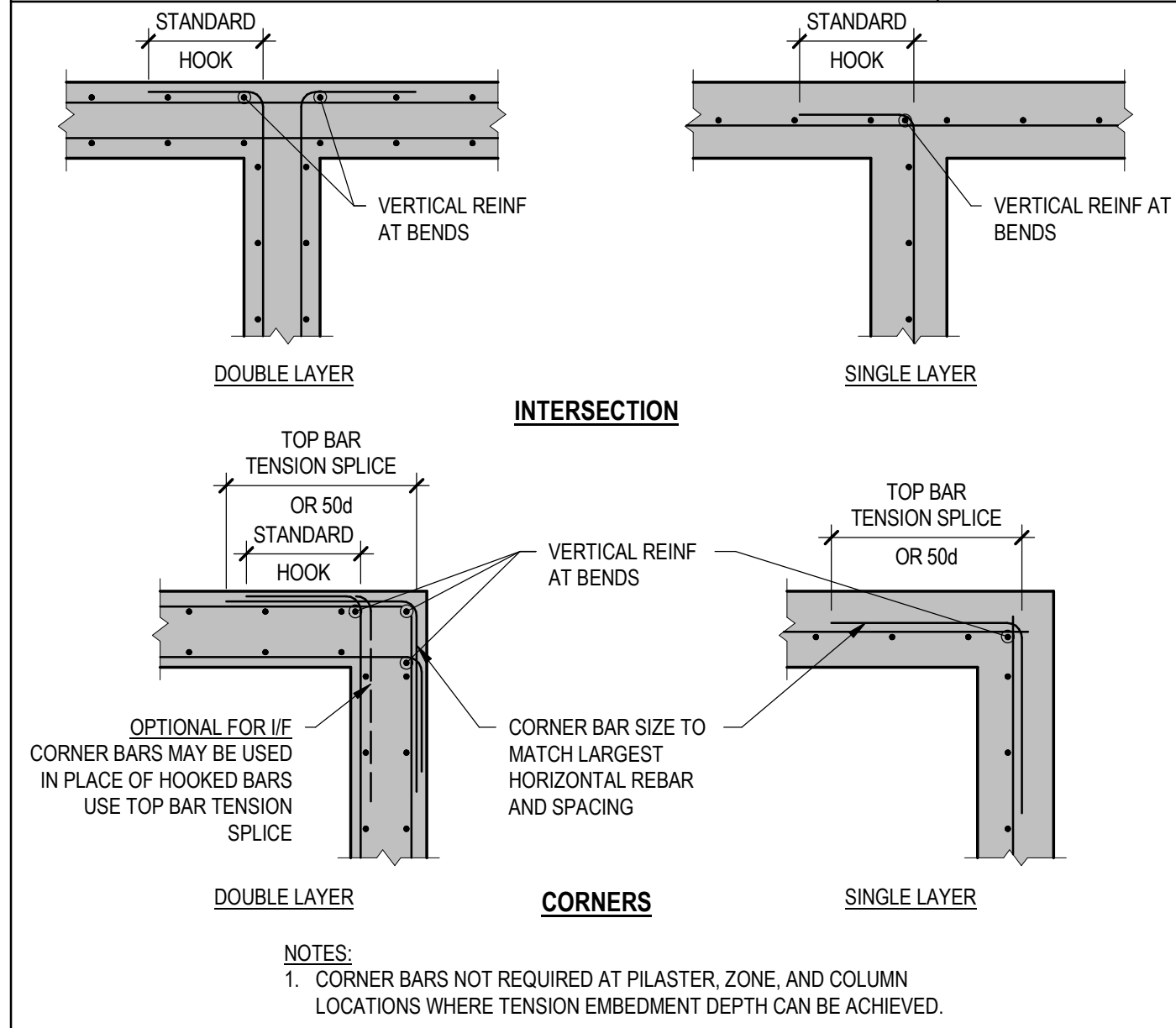
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S0.04

REV 0 SHT

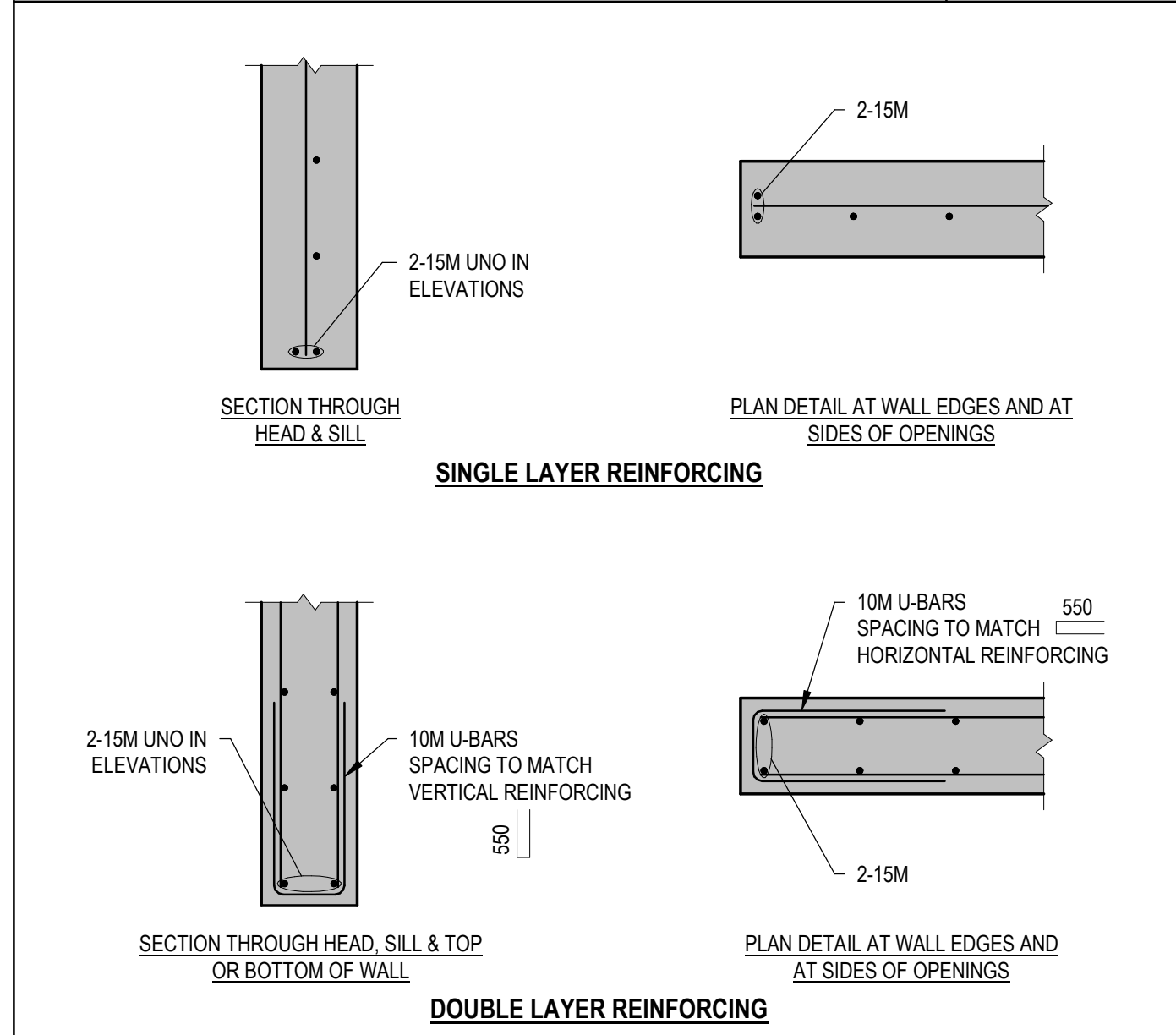
WALL AND GRADE BEAM INTERSECTION

CW11



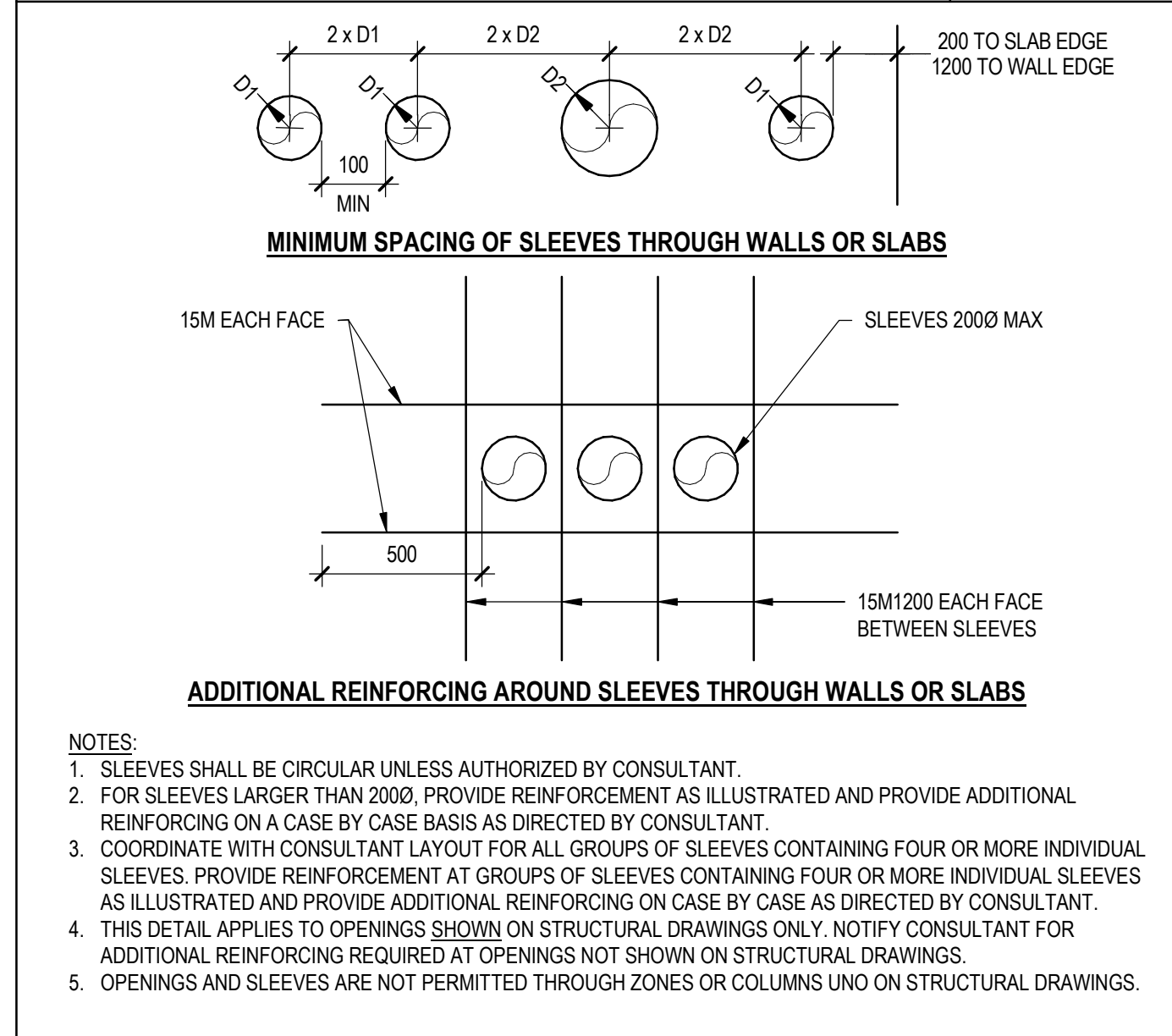
WALL EDGES

CW12



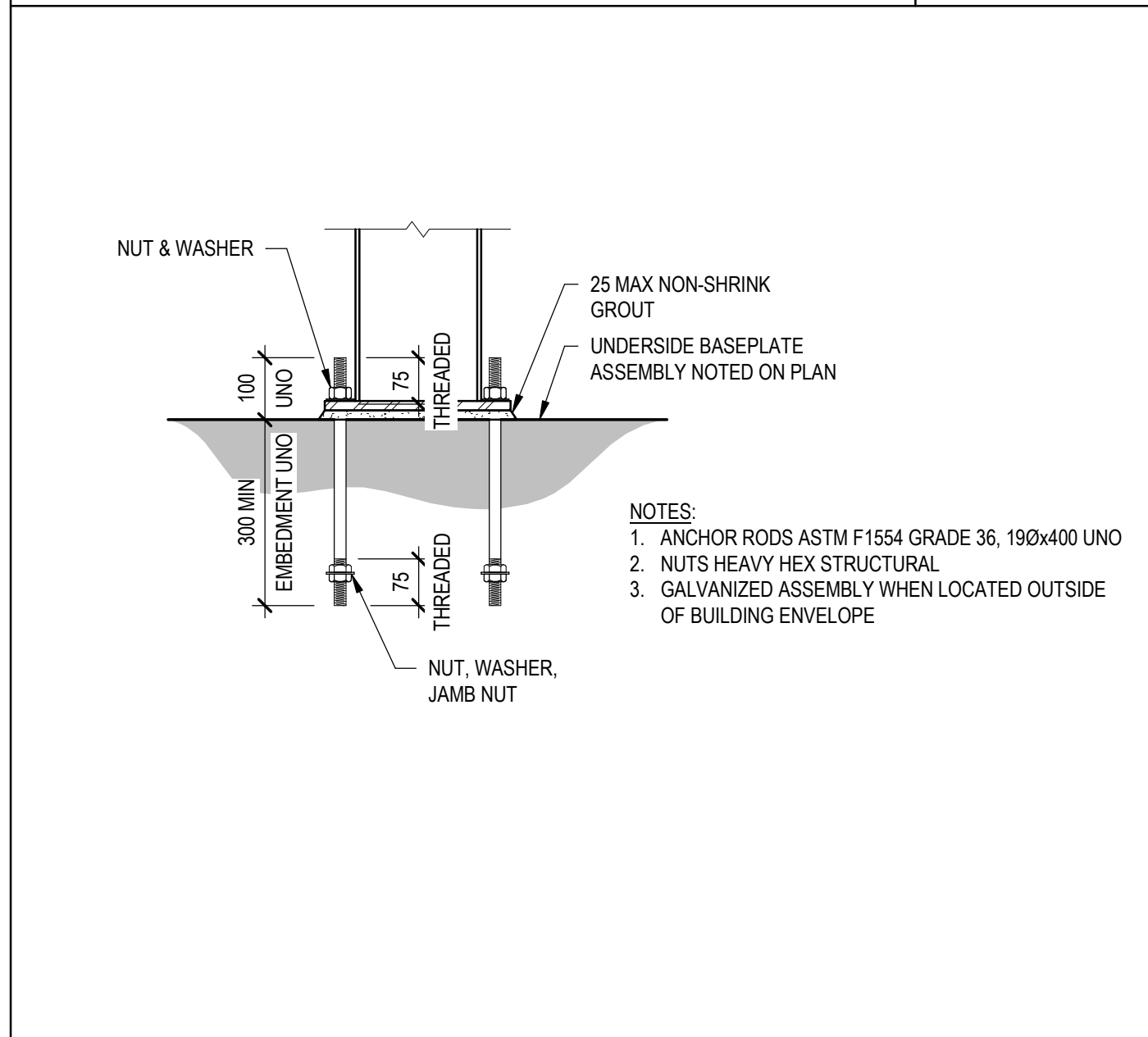
CIRCULAR OPENINGS IN WALLS AND SLAB

CW14



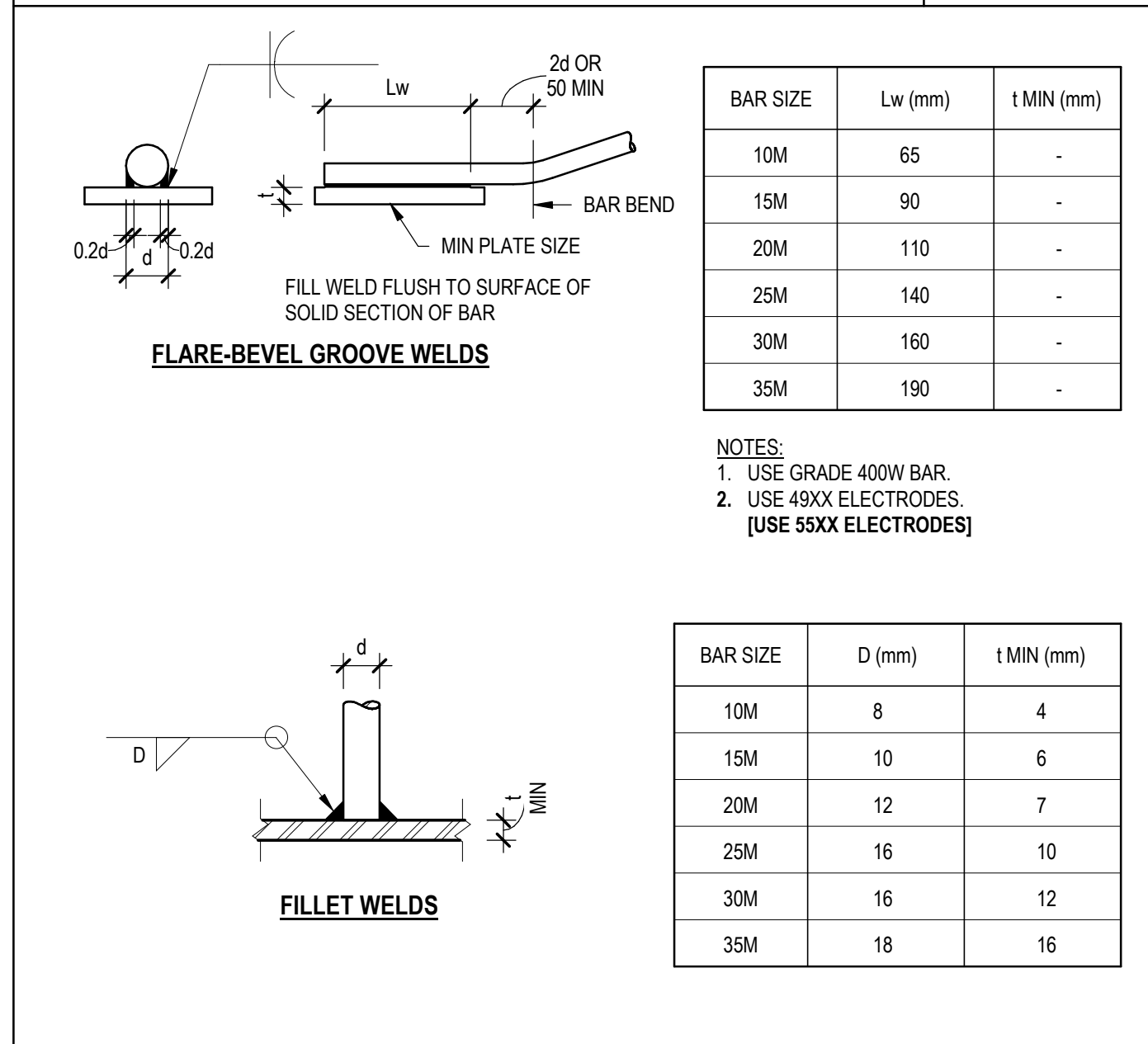
BASEPLATE DETAIL

S01



WELD DETAILS - REINFORCING STEEL TO STEEL PLATE

S05



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drawing title

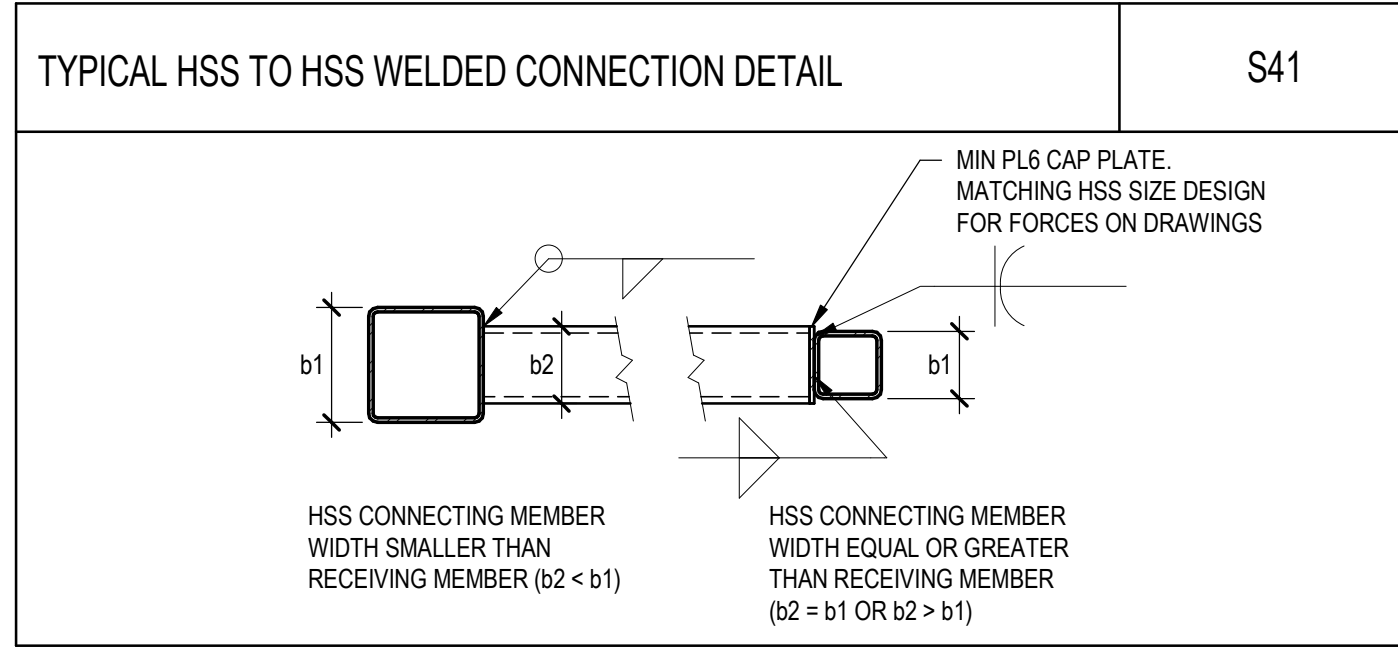
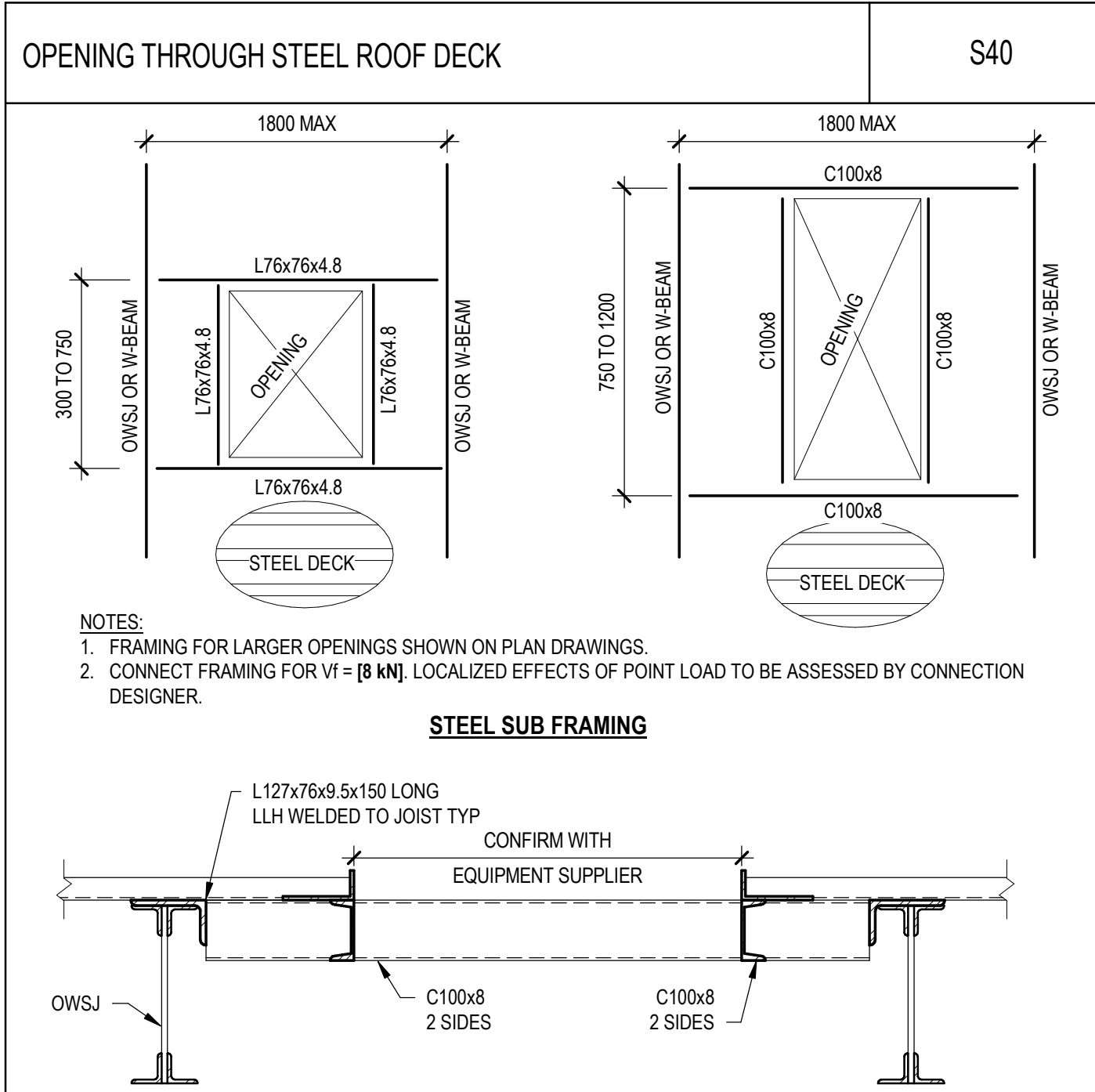
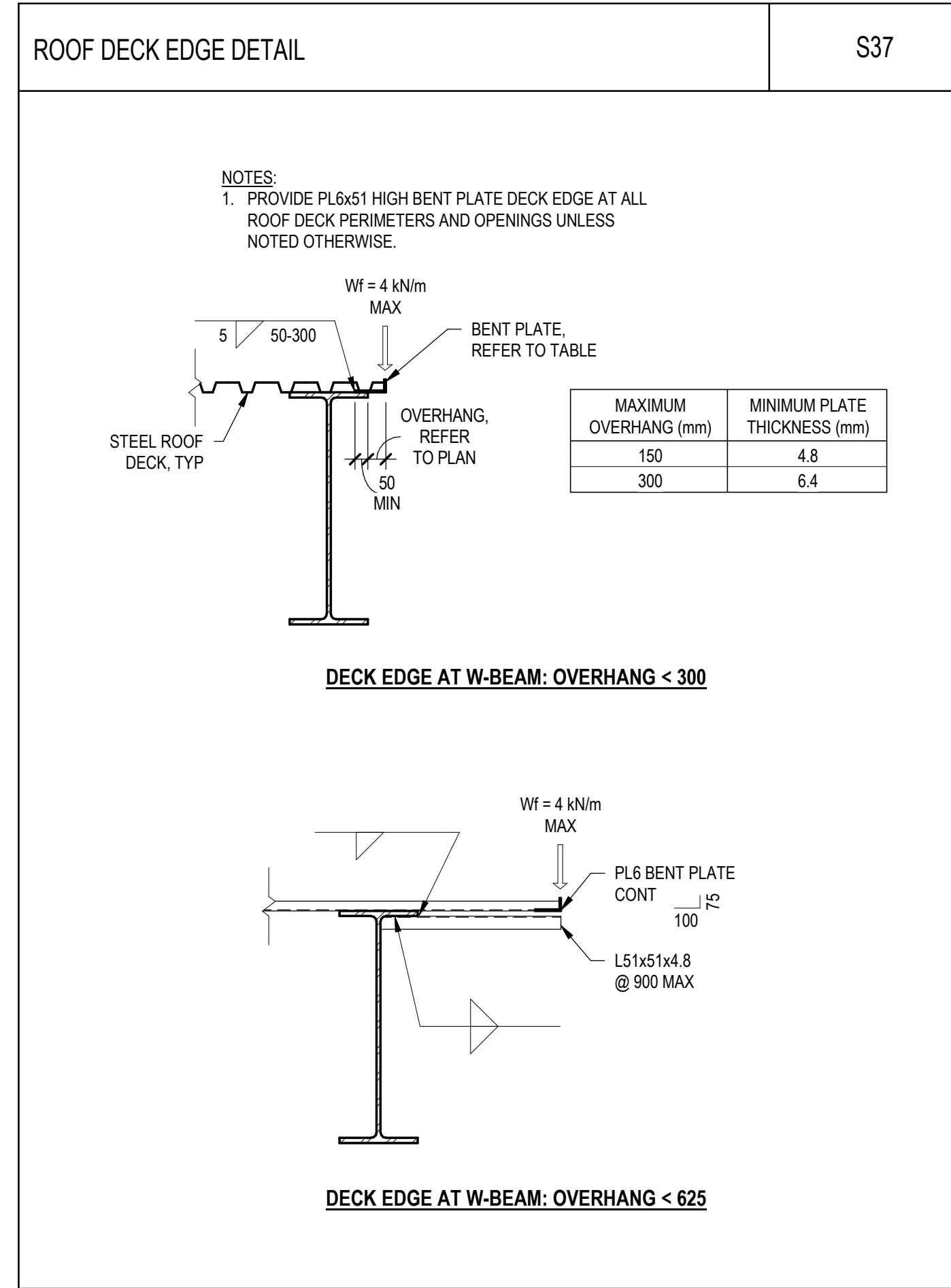
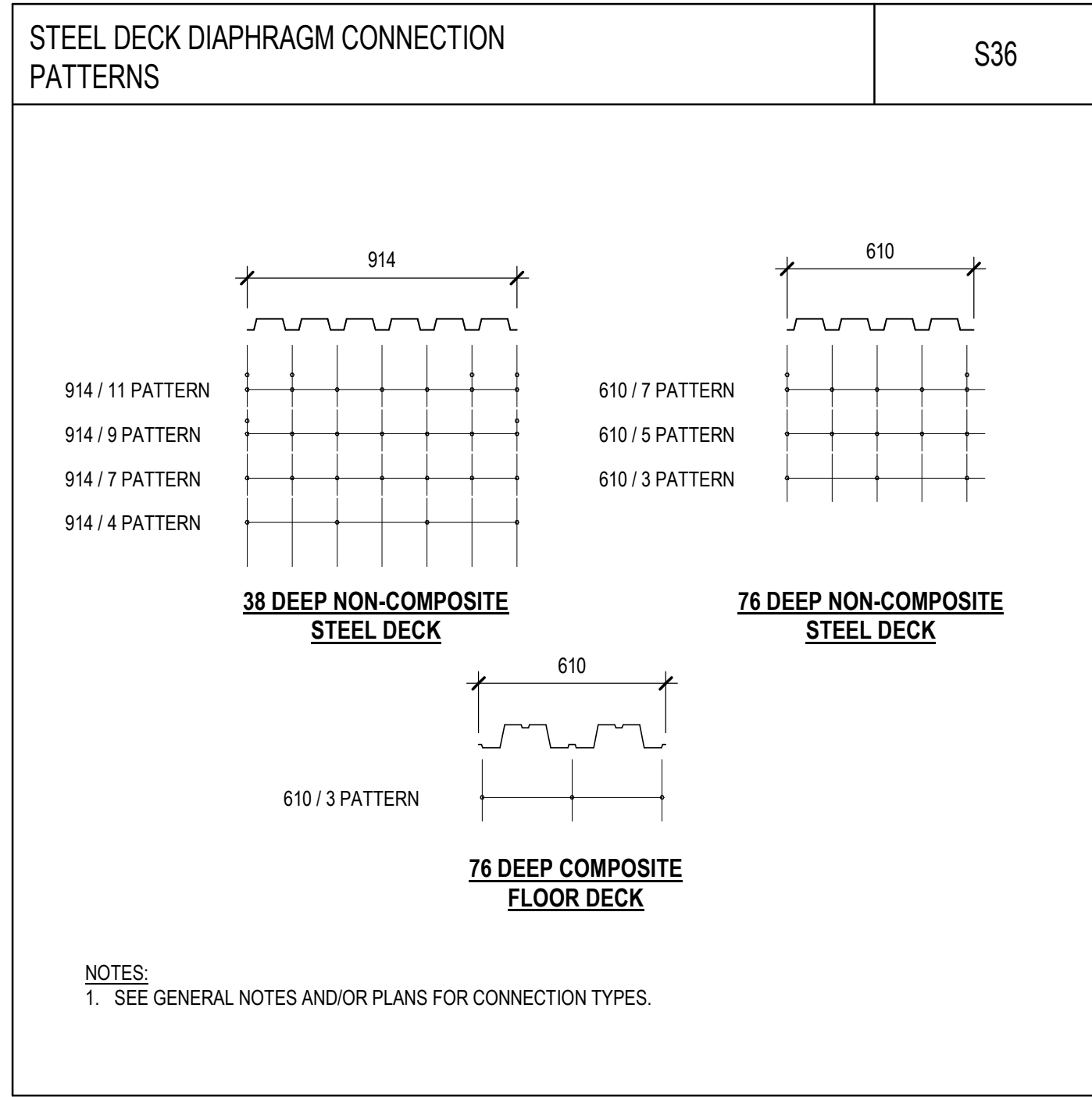
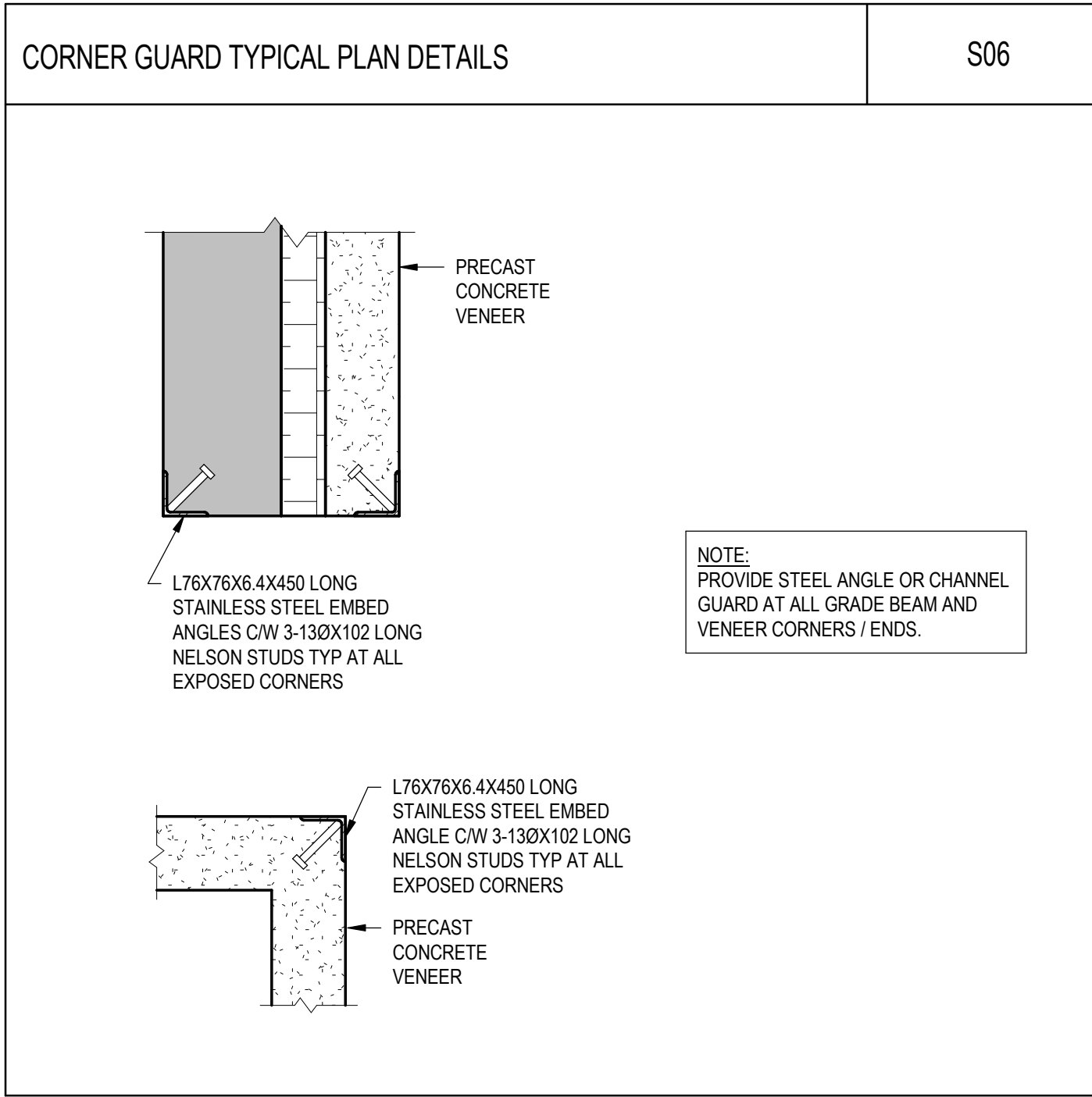
MILL WOODS TRANSIT CENTER TYPICAL DETAILS - SHEET 3

VALLEY LINE - STAGE 1

MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S0.05

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PROFESSIONAL ENGINEER ALBERTA
RYAN RENIHAN
2019-05-04 P#10020

AECOM Prime Consultant

Edmonton

HATCH

drawing title

prime consultant job no

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ISL Engineering and Land Services

DIALOG

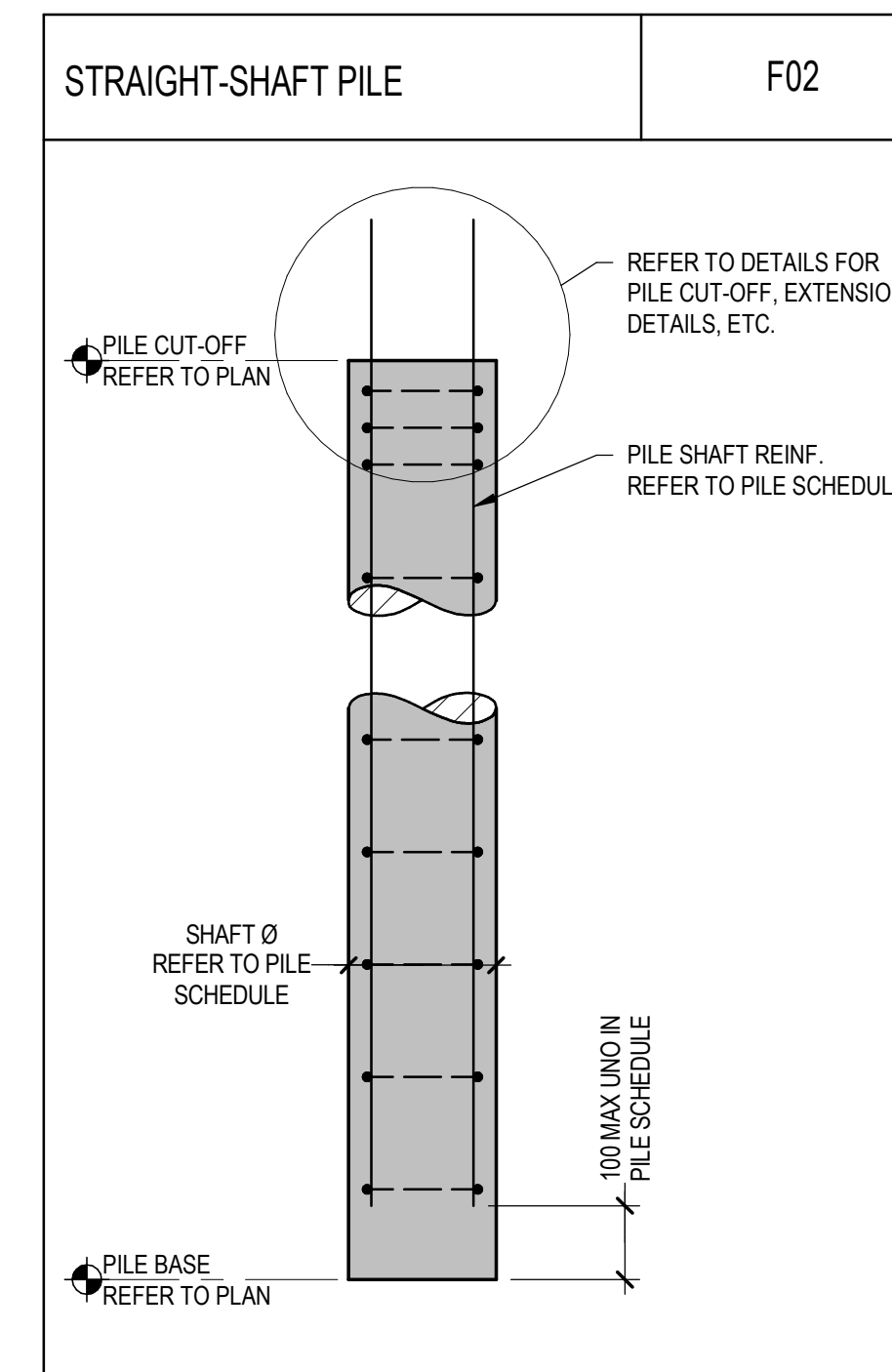
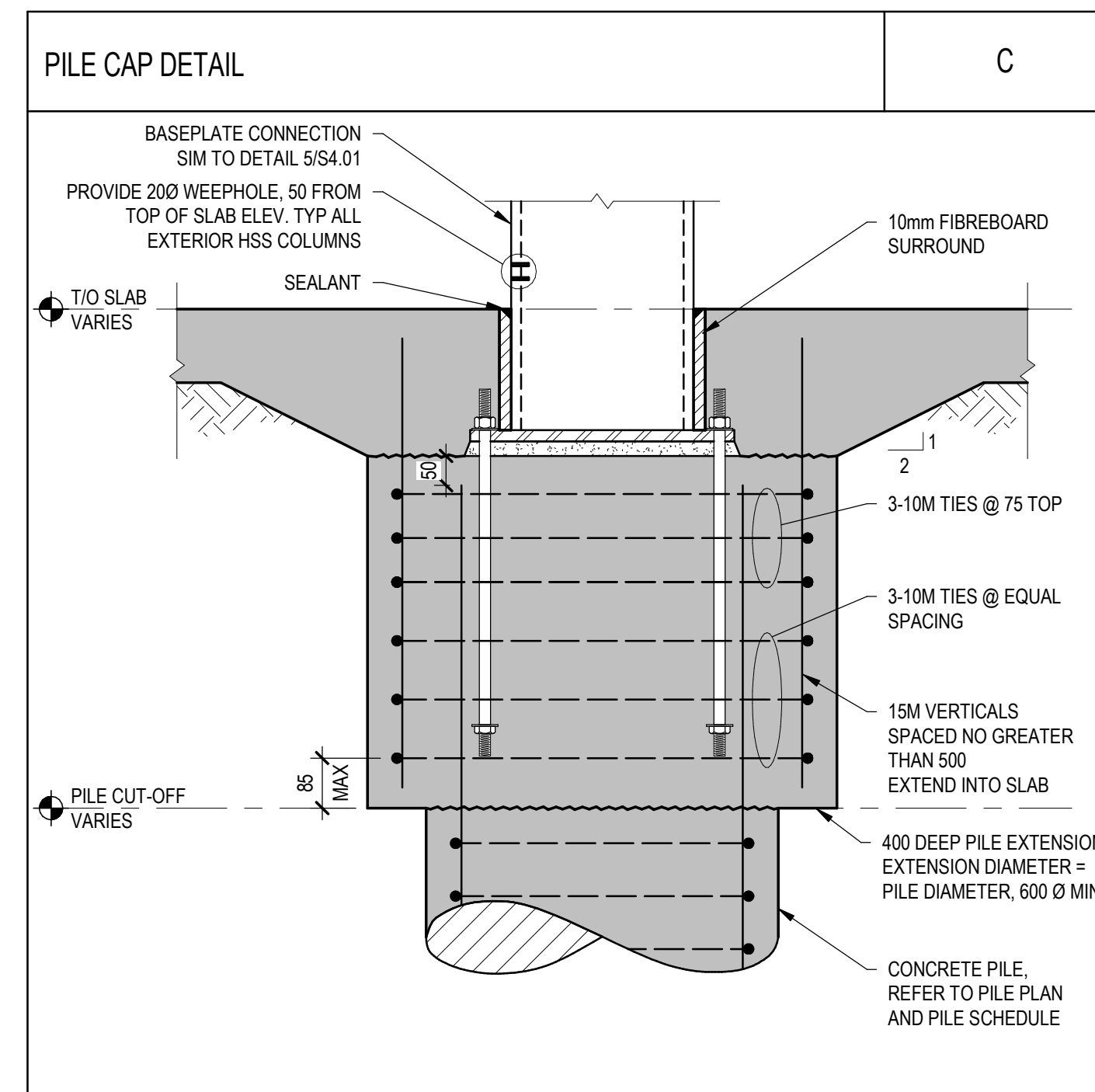
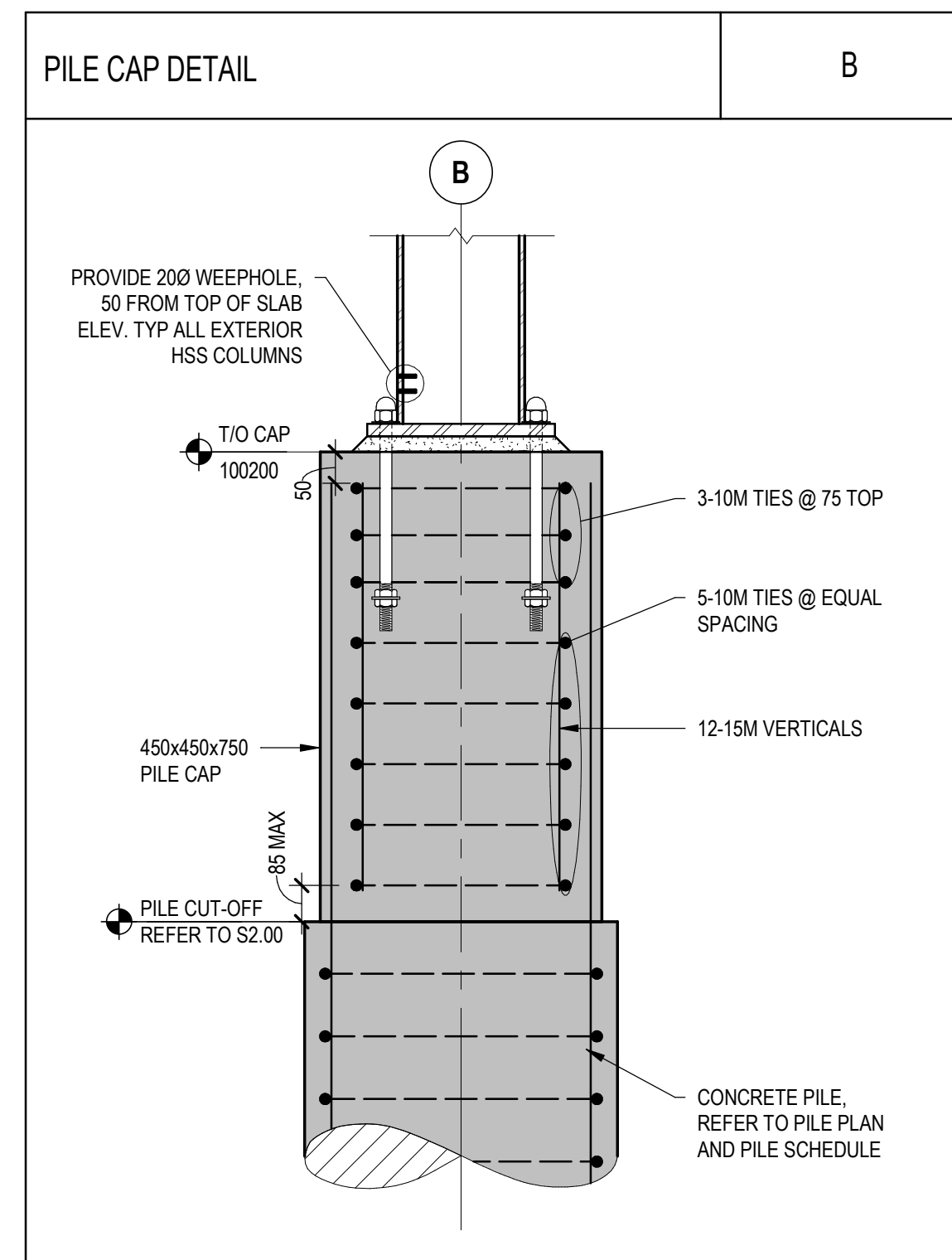
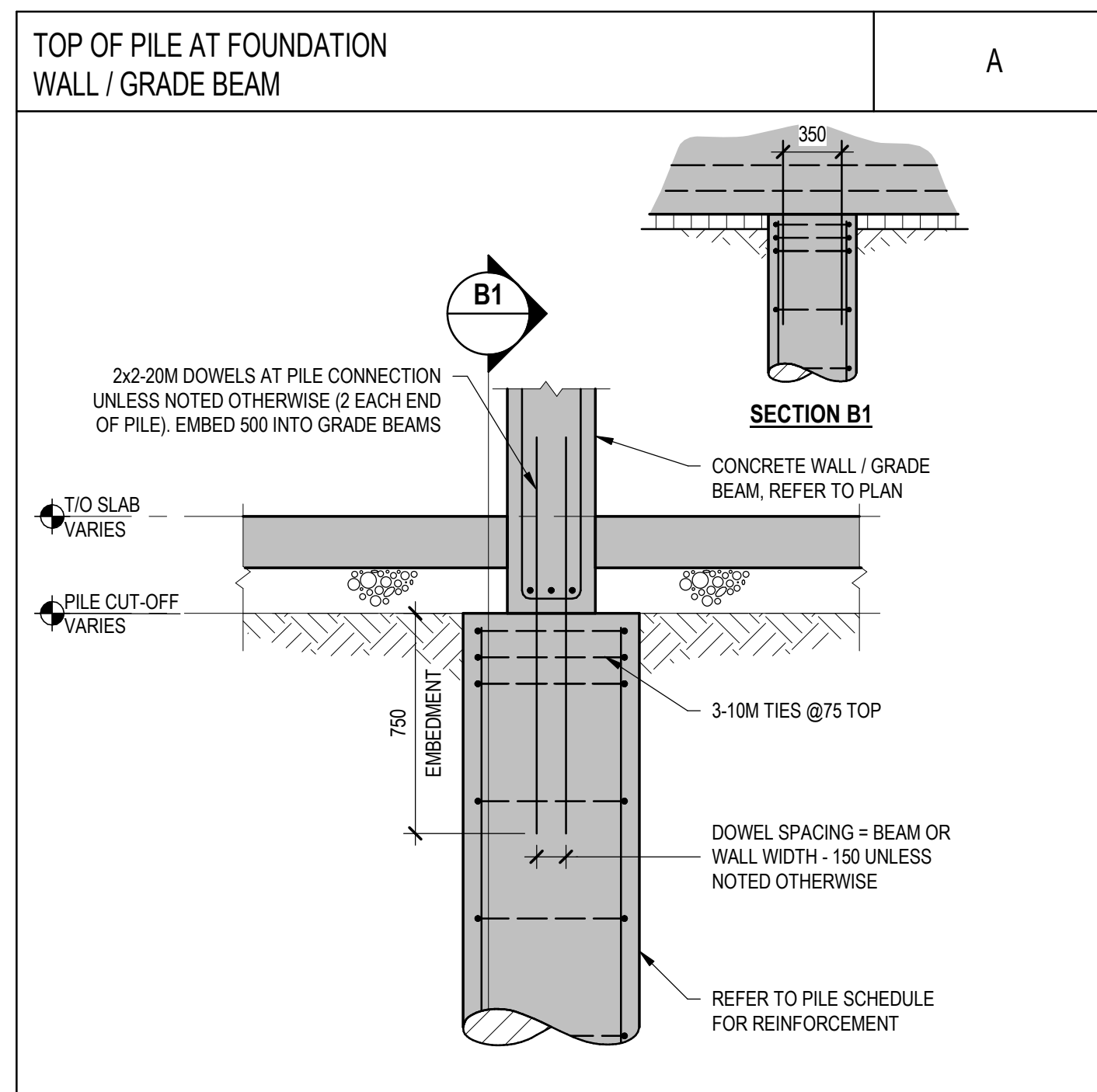
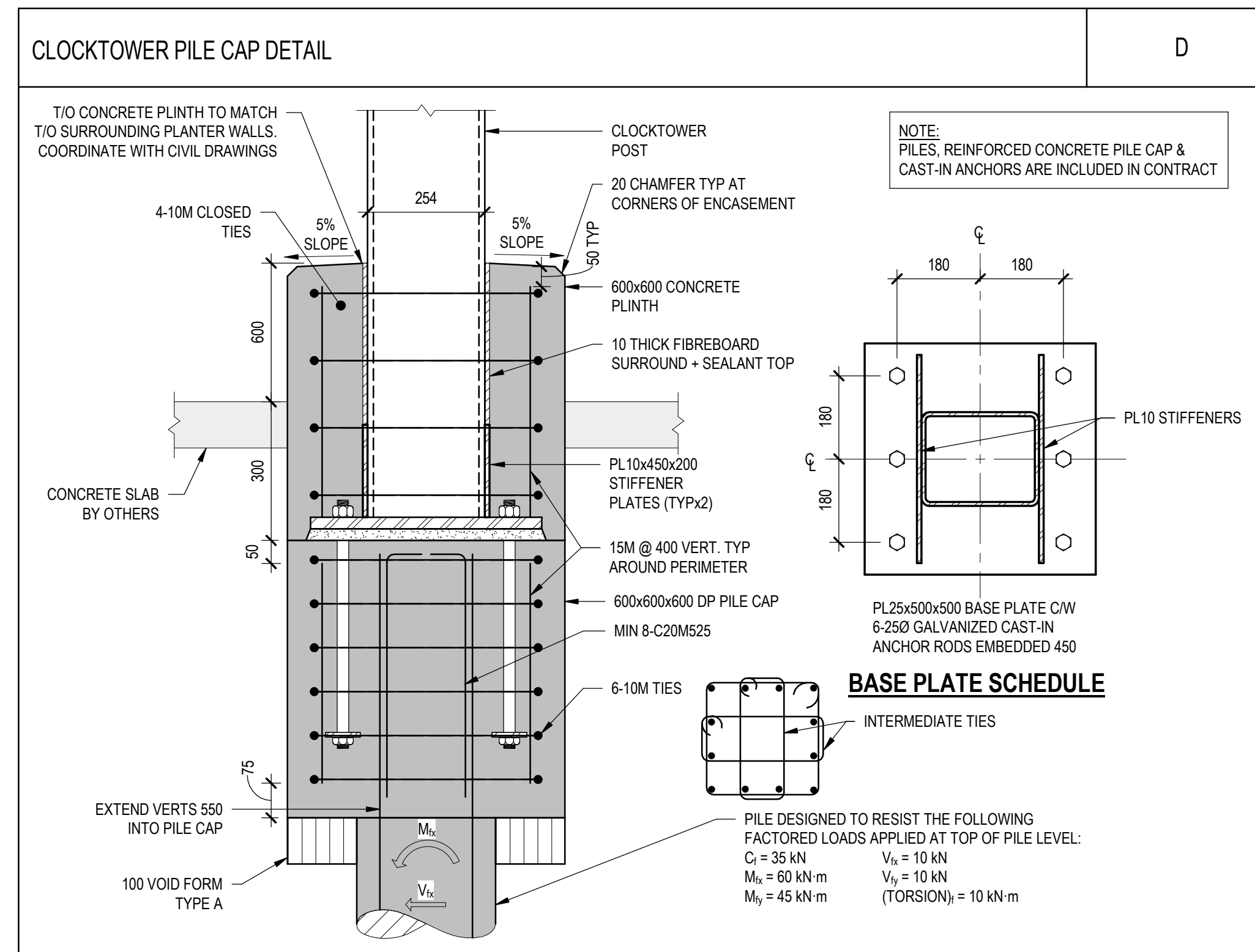
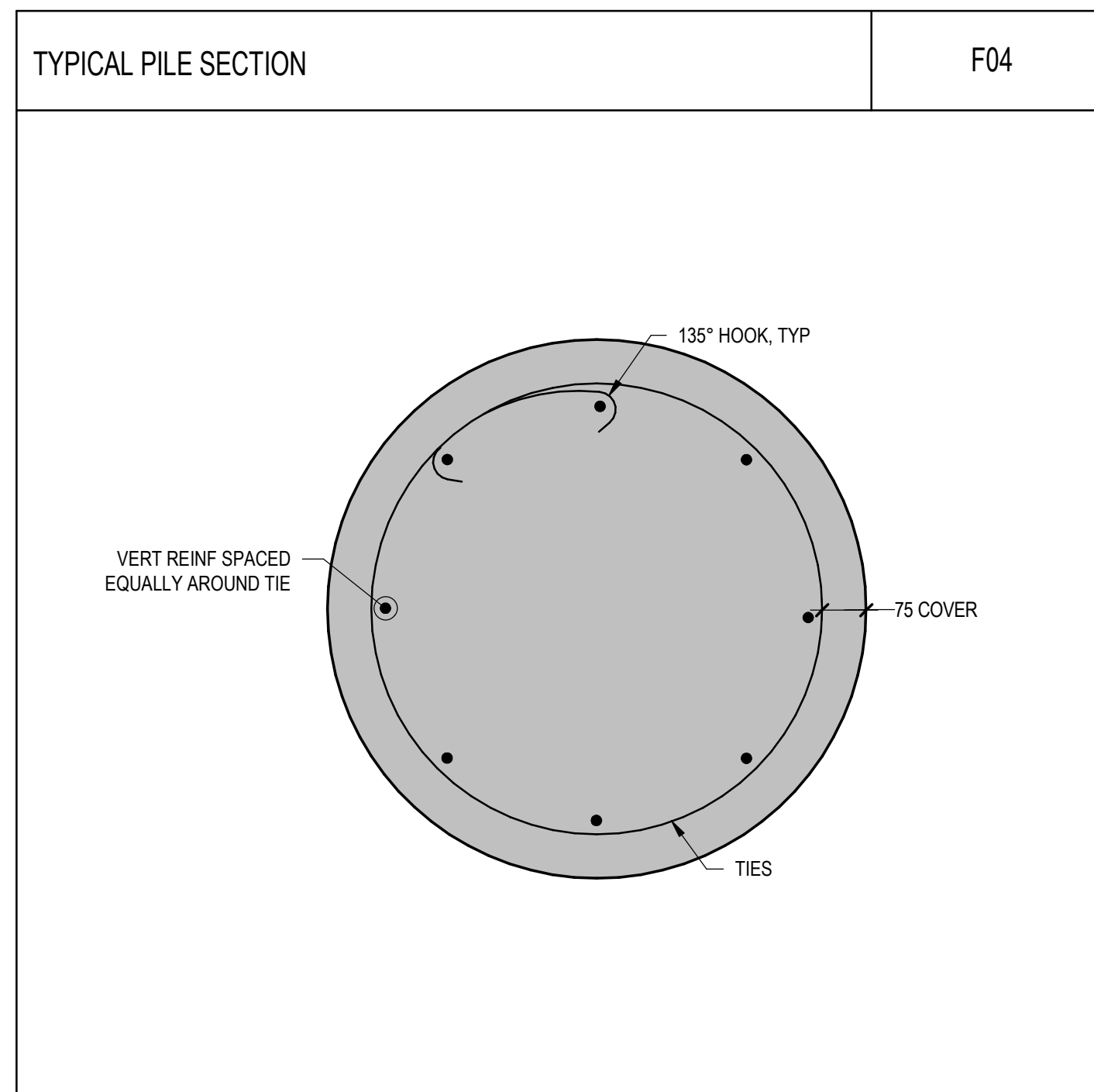
gpc architecture

MILL WOODS TRANSIT CENTER
TYPICAL DETAILS - SHEET 4

drawing no. MWTC 191 S0.06

REV 0 SHT

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN



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RYAN RENIHAN
2019-05-04 P#10020

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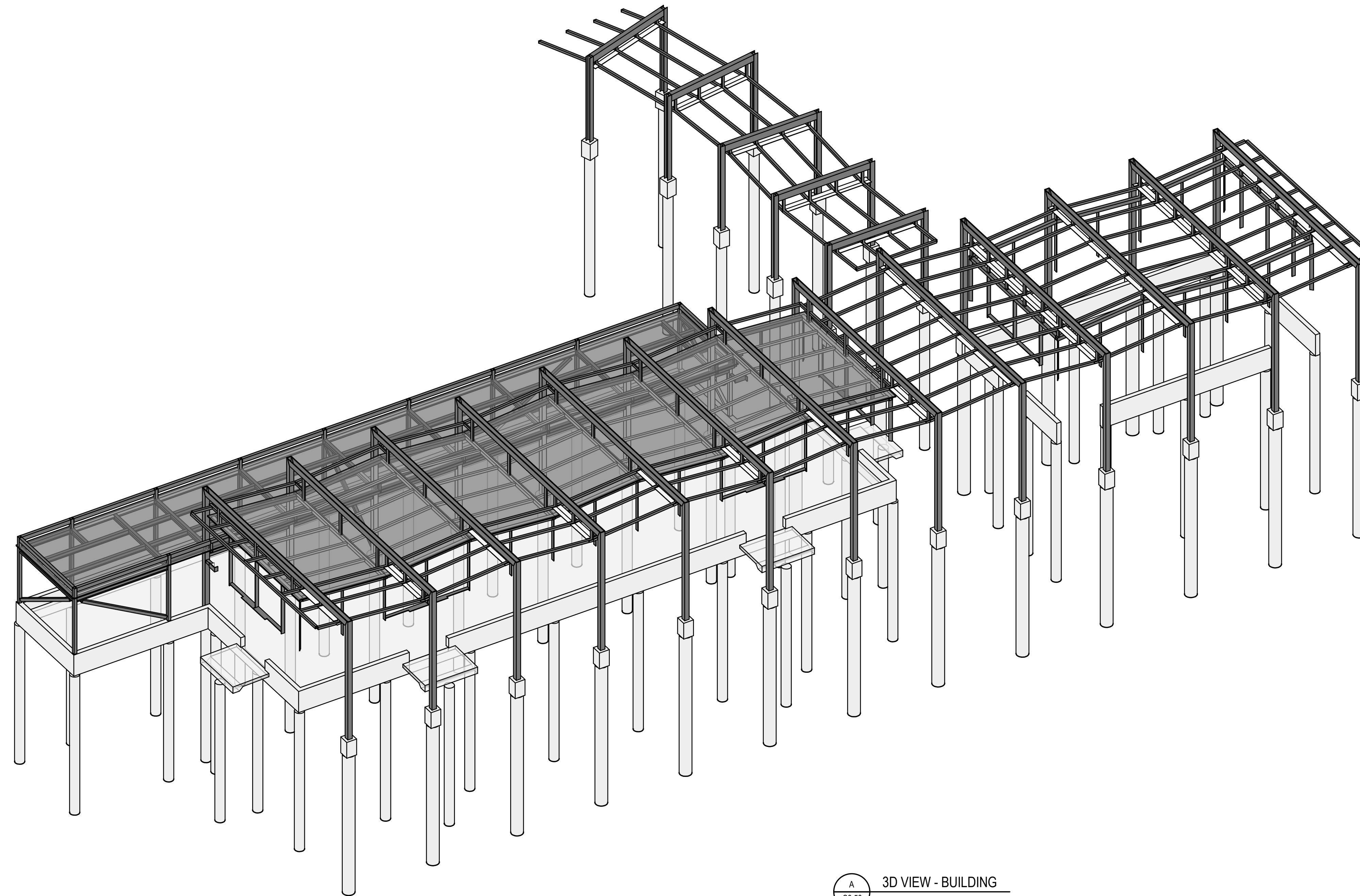
DIALOG **gpc architecture**

drawing title

**MILL WOODS TRANSIT CENTER
TYPICAL DETAILS - SHEET 5**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S0.07 REV 0 SHT



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S0.50

3D VIEW - BUILDING

SCALE:

NOTE:
3D VIEW SHOWS A LIMITED AMOUNT OF INFORMATION AND IS PROVIDED ONLY TO ILLUSTRATE OVERALL CONTEXT. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION.

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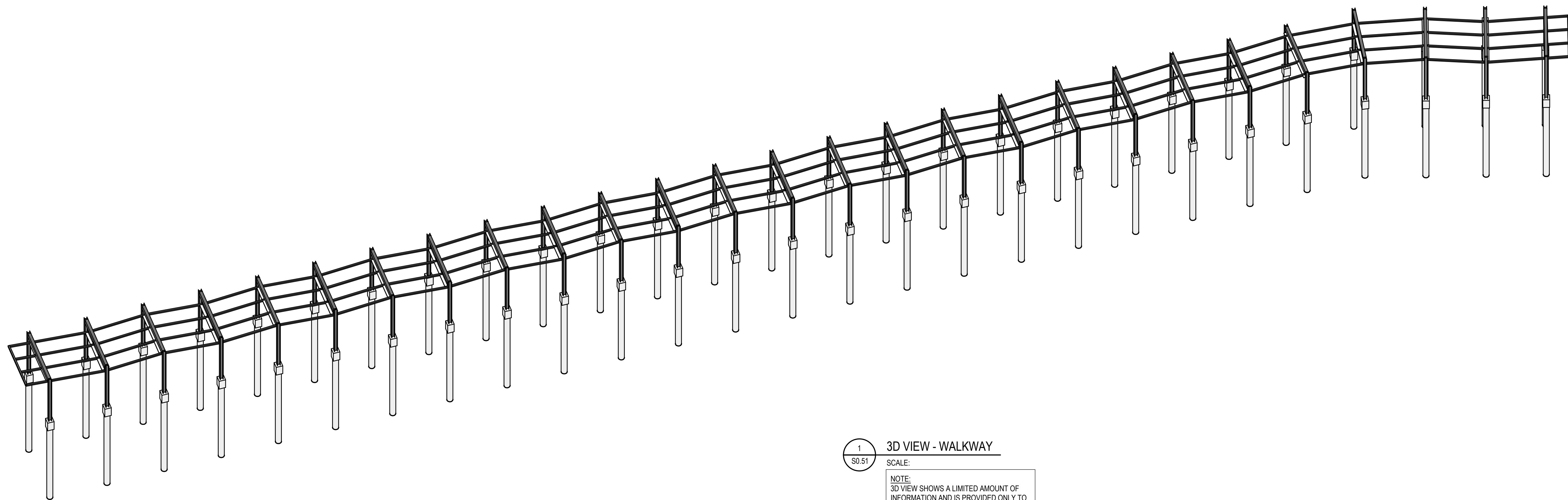
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**MILL WOODS TRANSIT CENTER
3D VIEW - BUILDING**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S0.50

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1
S0.51

3D VIEW - WALKWAY

SCALE:

NOTE:
3D VIEW SHOWS A LIMITED AMOUNT OF INFORMATION AND IS PROVIDED ONLY TO ILLUSTRATE OVERALL CONTEXT. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION.

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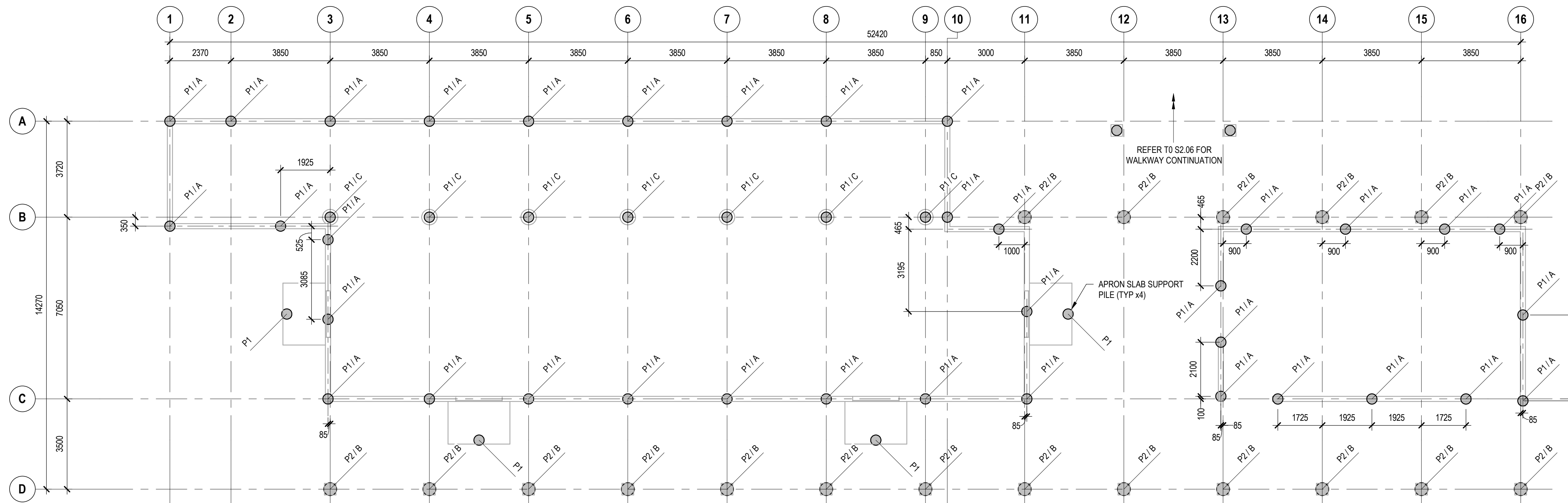
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drawing title

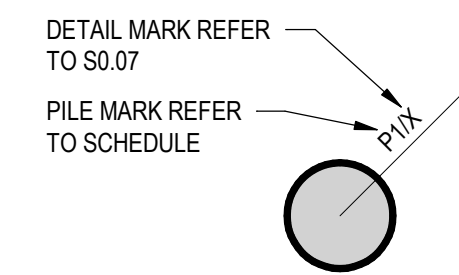
**MILL WOODS TRANSIT CENTER
3D VIEW - WALKWAY**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S0.51 REV 0
SHT



PILE LEGEND



- PILE NOTES:**
- FACTORED ULS SHAFT FRICTION CAPACITY OF PILES: 0 kPa AT 0m - 2.0m BGL
16 kPa AT 2.0m - 7.0m BGL
48 kPa AT BELOW 7.0m BGL
 - OBTAIN REVIEW OF ALL PILING ACTIVITIES BY A QUALIFIED GEOTECHNICAL ENGINEER REGISTERED IN ALBERTA AND ENGAGED BY THE CITY AS PART OF THE OWNER'S INSPECTION AND TESTING QUALITY ASSURANCE PROGRAM.
 - CAST PILE CONCRETE IMMEDIATELY FOLLOWING DRILLING AND BEARING SURFACE REVIEW.
 - FOR ADJACENT PILES (WITHIN CENTRE-TO-CENTRE DISTANCE OF 3 x SHAFT DIAMETER), CONSTRUCT FIRST THE PILE WITH THE LOWEST BASE ELEVATION.
 - EXTEND SHAFT REINFORCEMENT TO WITHIN 50 OF THE TOP OF THE PILE, PILE EXTENSION OR PILE CAP UNLESS NOTED OTHERWISE.
 - PROVIDE SPACERS (BOTTOM AND MIDDLE OF PILE CAGE UNLESS NOTED OTHERWISE) TO ENSURE SPECIFIED COVER IS MAINTAINED.
 - CONFIRM ALL PILE SIZES AND LOCATIONS WITH CONTRACTOR PRIOR TO INSTALLATION.
 - CENTRE ALL PILES ON GRIDLINES EXCEPT WHERE NOTED.

PROJECT NORTH

1 PILE LAYOUT PLAN
 S2.01
 SCALE: 1:100

PILE MARK	ELEVATION AT TOP	ELEVATION AT BOTTOM	PILE Ø	COMPRESSIVE CAPACITY	REINFORCEMENT		REMARKS
					VERTICAL	TIES	
P1	99450	92450	400	160 kN	5-15M	3-10M @75 TOP 10M @240 REM	
P2	99450	92450	500	190 kN	8-20M	3-10M @75 TOP 10M @320 REM	INCLUDE 1-ADDITIONAL P2 PILE BELOW CLOCKTOWER
P3	VARIABLES	VARIABLES	400	25 kN	5-15M	3-10M @75 TOP 10M @240 REM	4500 MINIMUM LENGTH. REFER TO NOTE 1.

NOTE: LOCATE P3 PILES BELOW SITE LIGHT STANDARDS. FOR THE PURPOSE OF BIDDING, INCLUDE FOR 75-P3 PILES ON THE PROJECT. COORDINATE LOCATIONS AND PROJECTIONS WITH CIVIL AND ELECTRICAL DRAWINGS.

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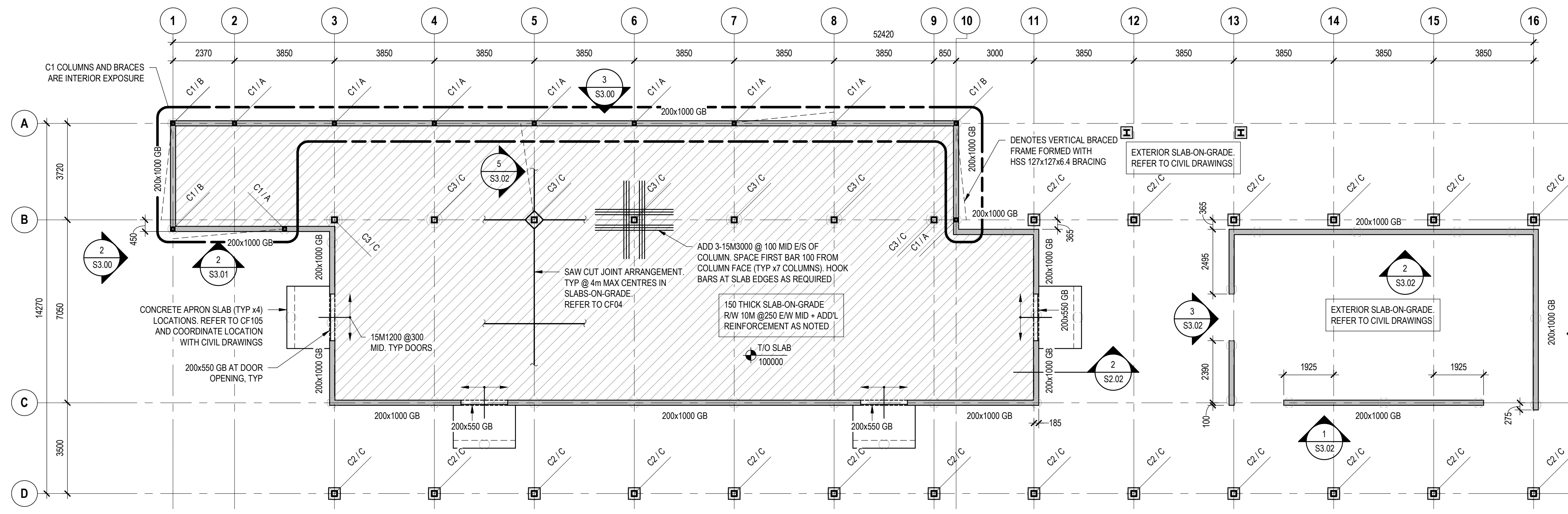
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MILL WOODS TRANSIT CENTER PILE LAYOUT PLAN

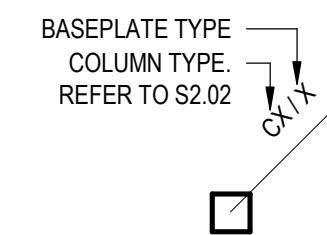
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S2.01

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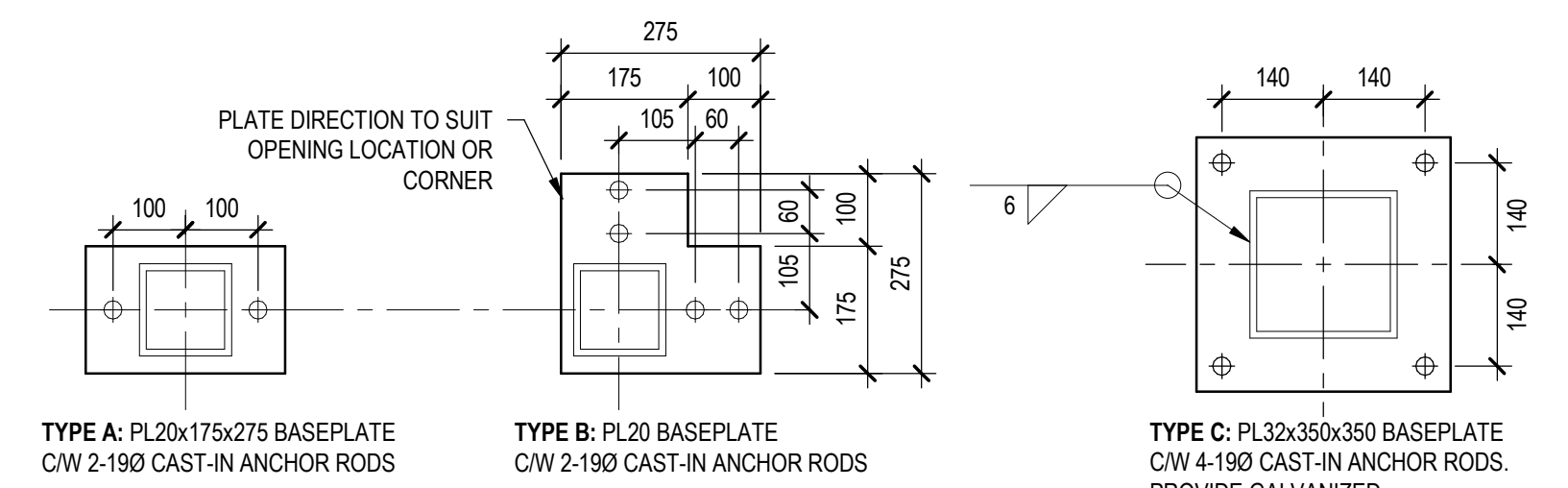
COLUMN LEGEND



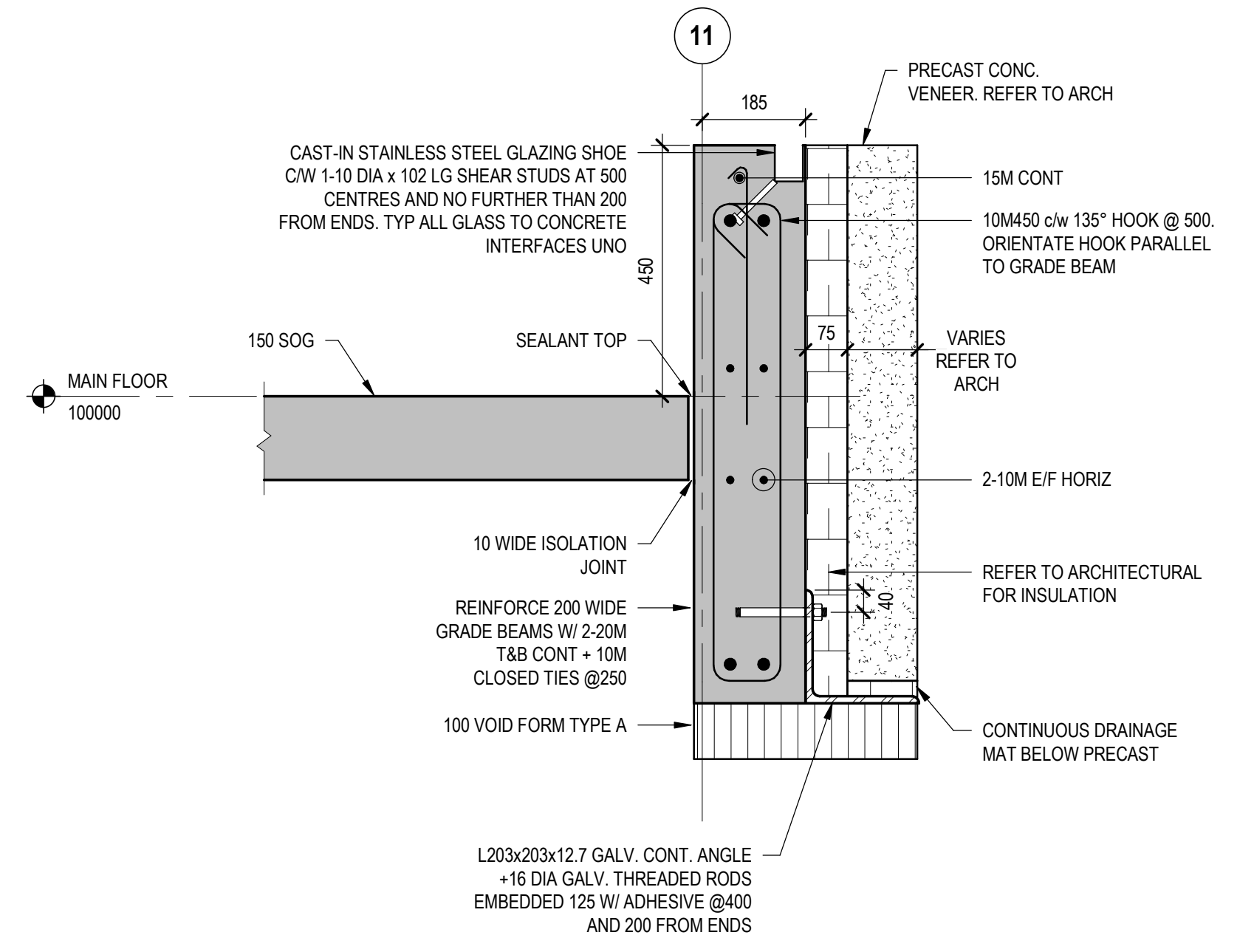
1 MAIN FLOOR FRAMING PLAN
SCALE: 1:100

COLUMN / BASEPLATE LEGEND

C1: HSS 127x127x9.5. U/S BASEPLATE ASSEMBLY = 100450
 C2: HSS 203x203x9.5. U/S BASEPLATE ASSEMBLY = 100200
 C3: HSS 203x203x9.5. U/S BASEPLATE ASSEMBLY = 99850
 BASEPLATE TYPES AS FOLLOWS.



NOTE:
 COLUMNS WITH 2-BOLTS MAY BE UNSTABLE DURING CONSTRUCTION. CONSIDER SHORING UNTIL STRUCTURE IS COMPLETED.



2 TYPICAL PERIMETER SECTION
SCALE: 1:10

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prime consultant job no.	prime consultant reviewed by
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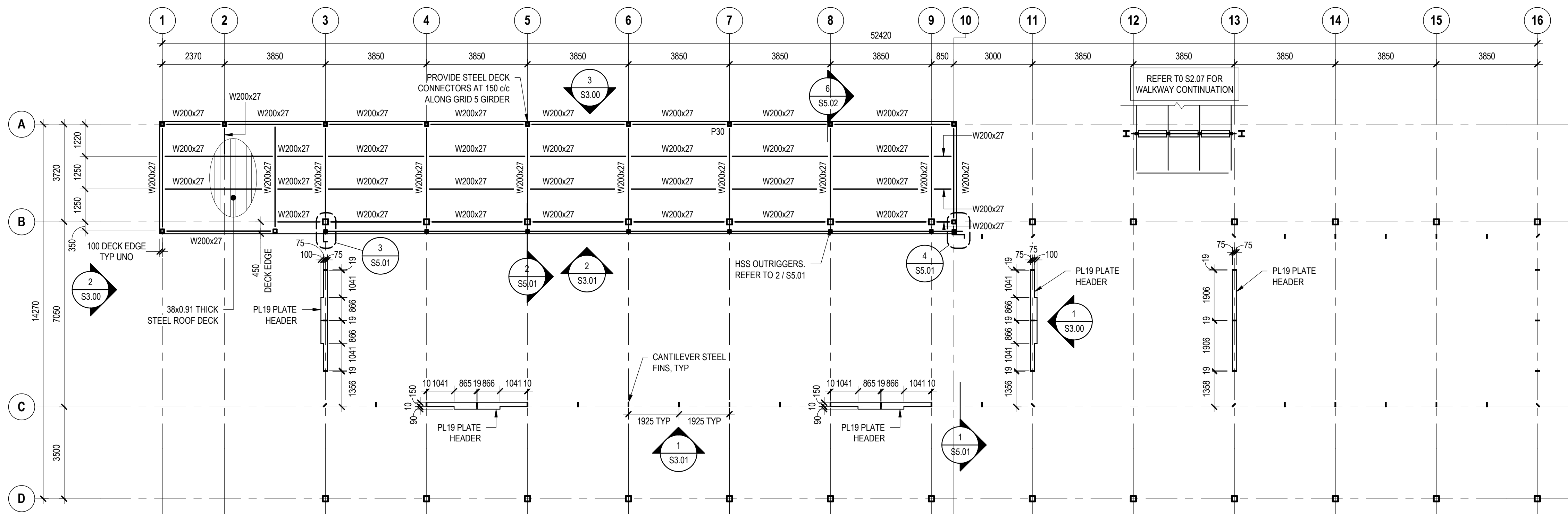
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Edmonton	

ISL Engineering and Land Services	DIALOG	gec architecture
drawing title	MILL WOODS TRANSIT CENTER MAIN FLOOR FRAMING PLAN	

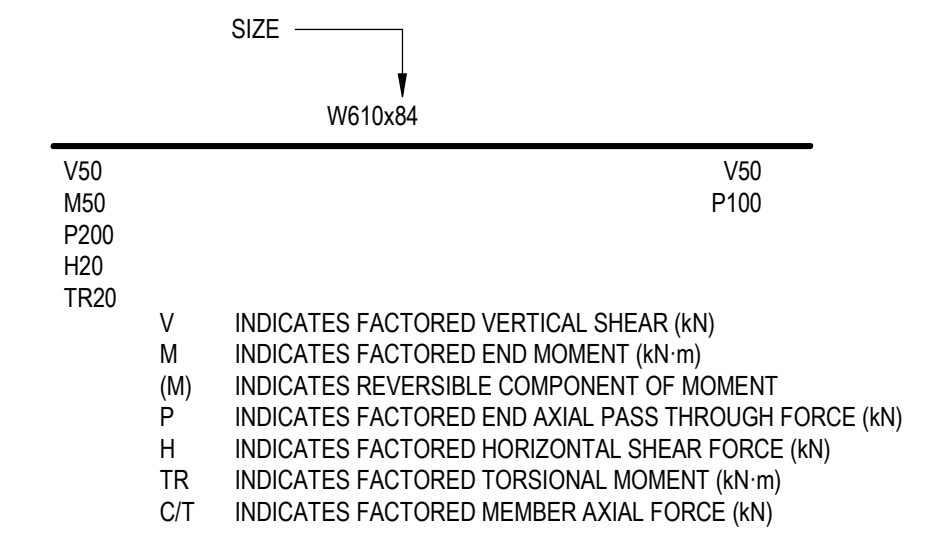
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VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

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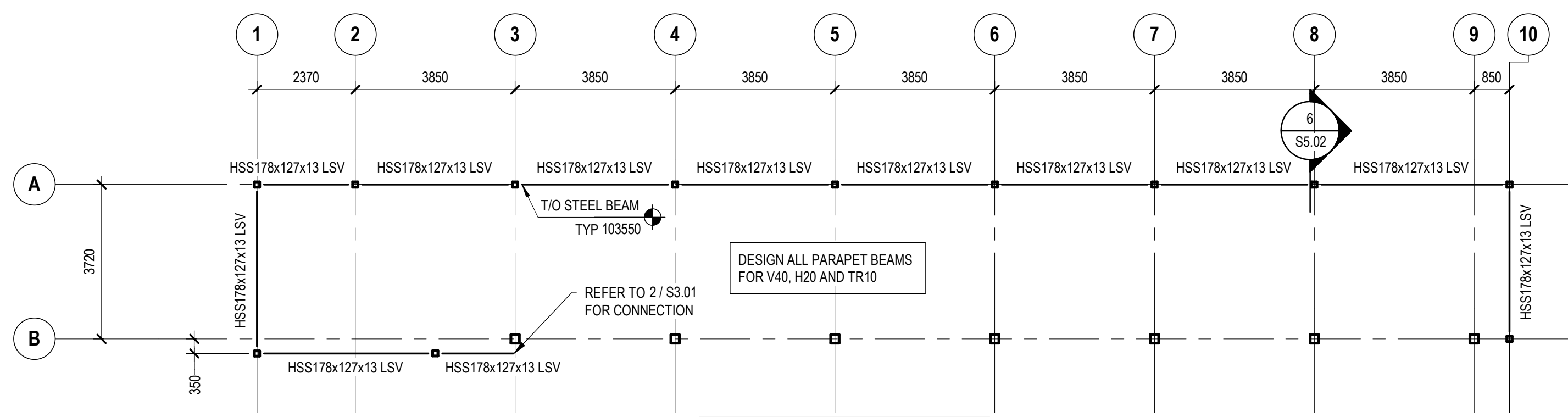
STEEL FRAMING LEGEND



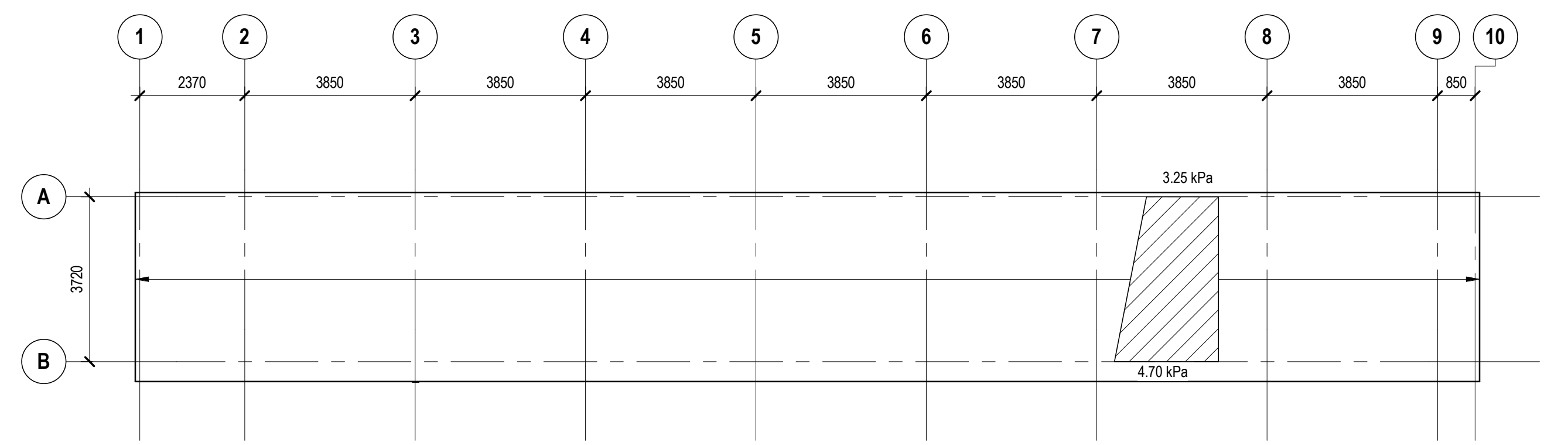
LOADING NOTES:
 NOTES TO DESIGNERS:
 • COMBINE LOADS IN ACCORDANCE WITH THE ALBERTA BUILDING CODE 2014.
CONNECTION DESIGN FORCES:
 • DESIGN ALL STEEL BEAMS AND GIRTS IN THE PROJECT FOR THE LOADS BELOW, UNLESS NOTED OTHERWISE ON DRAWINGS.
 -W200 / W250: V75 & P20
 -C150: V5 & H10
 -HSS: V50, H20, P10 AND TR5. CONNECTION CANNOT EXTEND MORE THAN 10mm ABOVE TOP OF HSS
 • REQUEST DETAILED LOADING INFORMATION FROM CONSULTANT WHEN SPECIAL OR COMPLEX CONNECTIONS ARISE FROM DESIGN FOR THESE LOADS.

NOTES:
 • SPLICE LOW ROOF DECK EDGE ANGLES FOR P35. DECK EDGES FORM PART OF THE LATERAL LOAD RESISTING SYSTEM AND MUST BE CONTINUOUS.
 • LOW ROOF AND PARAPET PLAN FRAMING WEST OF GRID 11 IS CLASSIFIED AS INTERIOR EXPOSURE UNO. ALL FRAMING EAST OF GRID 11 IS CLASSIFIED AS EXTERIOR EXPOSURE

1 LOW ROOF FRAMING PLAN
 S2.03 SCALE: 1:100



2 PARAPET FRAMING PLAN
 S2.03 SCALE: 1:100



3 LOW ROOF SNOW LOAD PLAN
 S2.03 SCALE: 1:100

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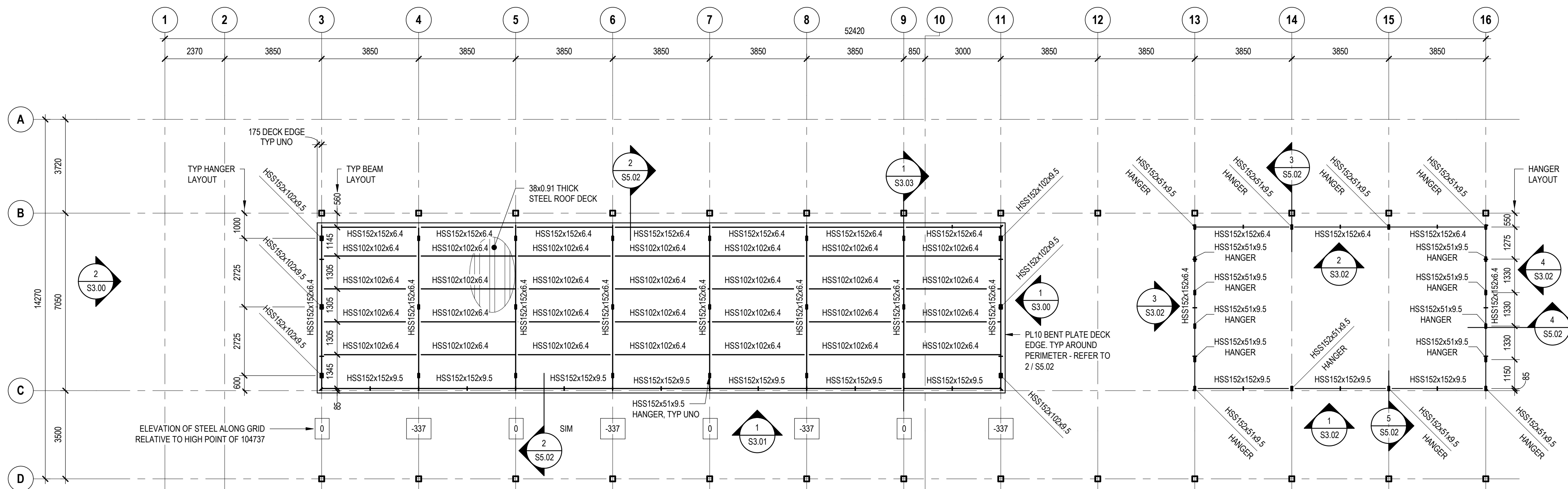
gec architecture

drawing title
**MILL WOODS TRANSIT CENTER
 ROOF FRAMING PLANS - SHEET 1**

drawing no.
MWTC 191 S2.03

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STEEL FRAMING LEGEND

SIZE
W610x84

V50	V50
M50	P100
P200	
H20	
TR20	

V INDICATES FACTORED VERTICAL SHEAR (kN)
 M INDICATES FACTORED END MOMENT (kN-m)
 (M) INDICATES REVERSIBLE COMPONENT OF MOMENT
 P INDICATES FACTORED END AXIAL PASS THROUGH FORCE (kN)
 H INDICATES FACTORED HORIZONTAL SHEAR FORCE (kN)
 TR INDICATES FACTORED TORSIONAL MOMENT (kN-m)
 C/T INDICATES FACTORED MEMBER AXIAL FORCE (kN)

LOADING NOTES:
 NOTES TO DESIGNERS:
 • COMBINE LOADS IN ACCORDANCE WITH THE ALBERTA BUILDING CODE 2014.
CONNECTION DESIGN FORCES:
 • DESIGN ALL STEEL BEAMS AND GIRTS IN THE PROJECT FOR THE LOADS BELOW, UNLESS NOTED OTHERWISE ON DRAWINGS.
 -W200 / W250: V75 & P20
 -C150: V5 & H10
 -HSS: V50, H20, P10 AND TR5. CONNECTION CANNOT EXTEND MORE THAN 10mm ABOVE TOP OF HSS
 • REQUEST DETAILED LOADING INFORMATION FROM CONSULTANT WHEN SPECIAL OR COMPLEX CONNECTIONS ARISE FROM DESIGN FOR THESE LOADS.

NOTE:
 • ALL HIGH ROOF STEEL IS CLASSIFIED AS EXTERIOR EXPOSURE, WITH THE EXCEPTION OF THE INTERIOR FRAMING BETWEEN GRIDS B+560 TO C / 3-11.

PROJECT NORTH
 2 ROOF FRAMING PLAN
 S2.04 SCALE: 1:100

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 RIVAN RENJITH
 2019-05-04 P#10020

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drawing title

**MILL WOODS TRANSIT CENTER
 ROOF FRAMING PLANS - SHEET 2**

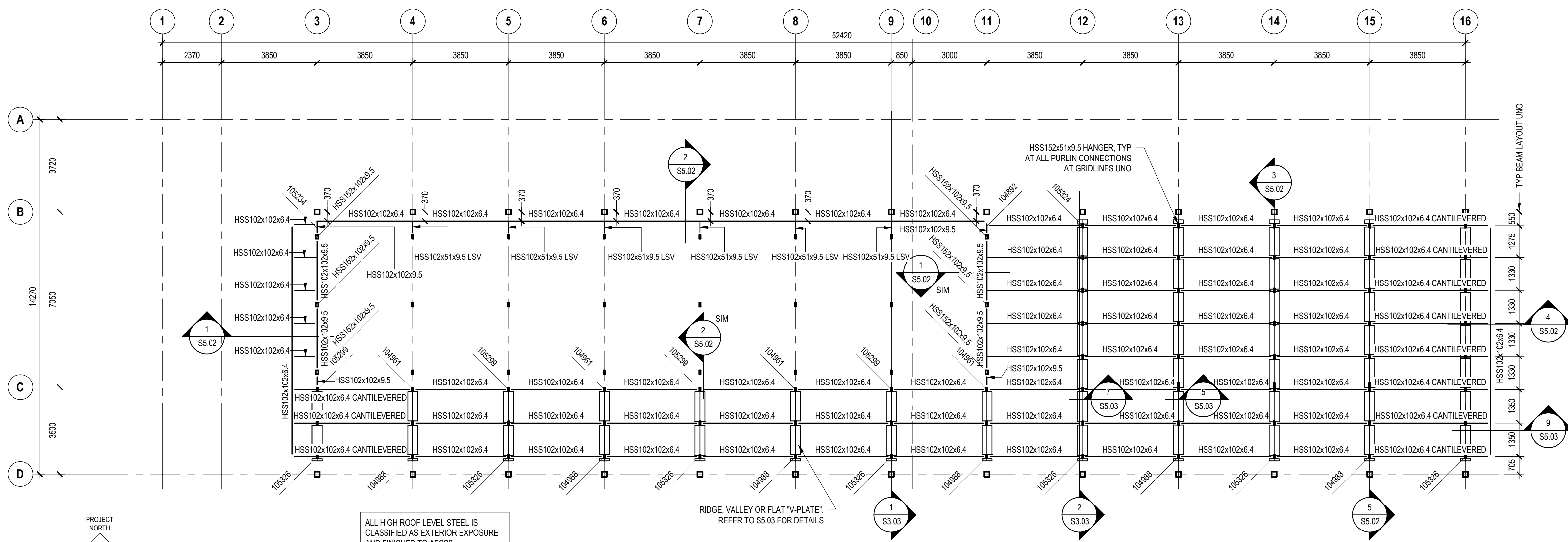
DIALOG **gpc** architecture

drawing no. **MWTC 191 S2.04**

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VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

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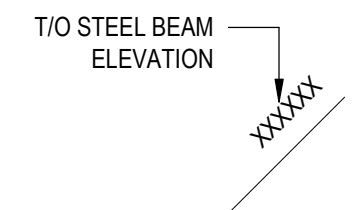


1 HIGH ROOF FRAMING PLAN
SCALE: 1:100

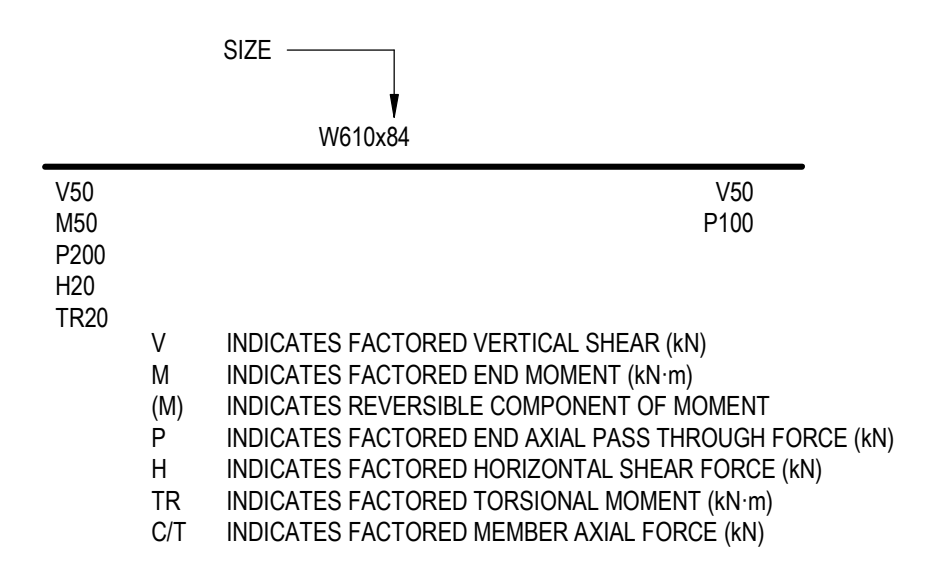
ALL HIGH ROOF LEVEL STEEL IS CLASSIFIED AS EXTERIOR EXPOSURE AND FINISHED TO AESS2

RIDGE, VALLEY OR FLAT 'V-PLATE' REFER TO S5.03 FOR DETAILS

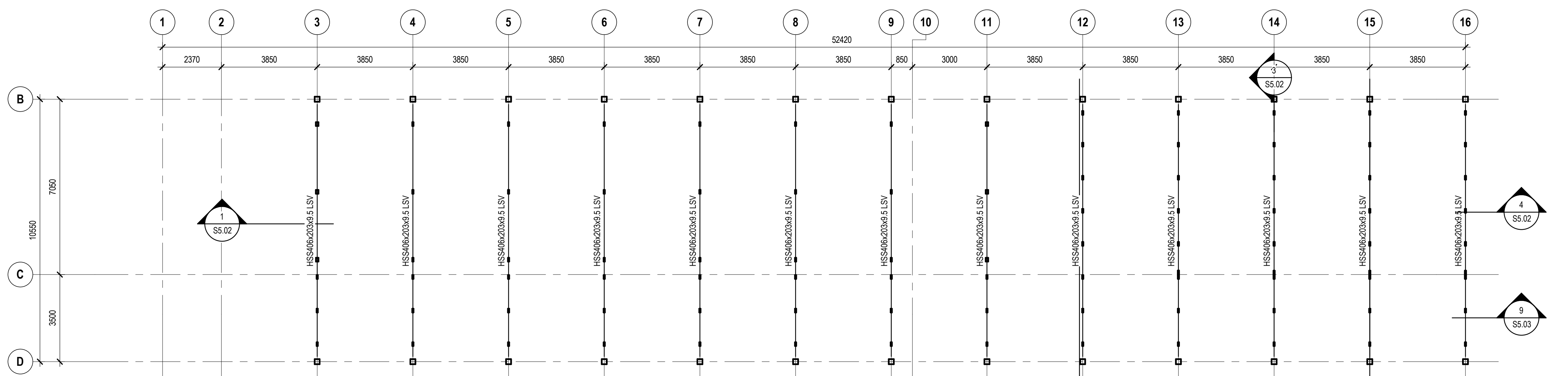
STEEL BEAM ELEVATION LEGEND



STEEL FRAMING LEGEND



LOADING NOTES:
NOTES TO DESIGNERS:
• COMBINE LOADS IN ACCORDANCE WITH THE ALBERTA BUILDING CODE 2014.
CONNECTION DESIGN FORCES:
• DESIGN ALL STEEL BEAMS AND GIRTS IN THE PROJECT FOR THE LOADS BELOW, UNLESS NOTED OTHERWISE ON DRAWINGS.
-W200 / W250: V75 & P20
-C150: V5 & H10
-HSS: V50, H20, P10 AND TR5. CONNECTION CANNOT EXTEND MORE THAN 10mm ABOVE TOP OF HSS
• REQUEST DETAILED LOADING INFORMATION FROM CONSULTANT WHEN SPECIAL OR COMPLEX CONNECTIONS ARISE FROM DESIGN FOR THESE LOADS.



2 SKY FRAME LEVEL PLAN
SCALE: 1:100

HSS 'SKY FRAMES' ON GRID 3-16 ARE CLASSIFIED AS EXTERIOR EXPOSURE

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1	ISSUED FOR TENDER	2019-05-03	RR
no.	description	date	checked
	issue data		
no.	description	date	checked
	revisions		

DIALOG
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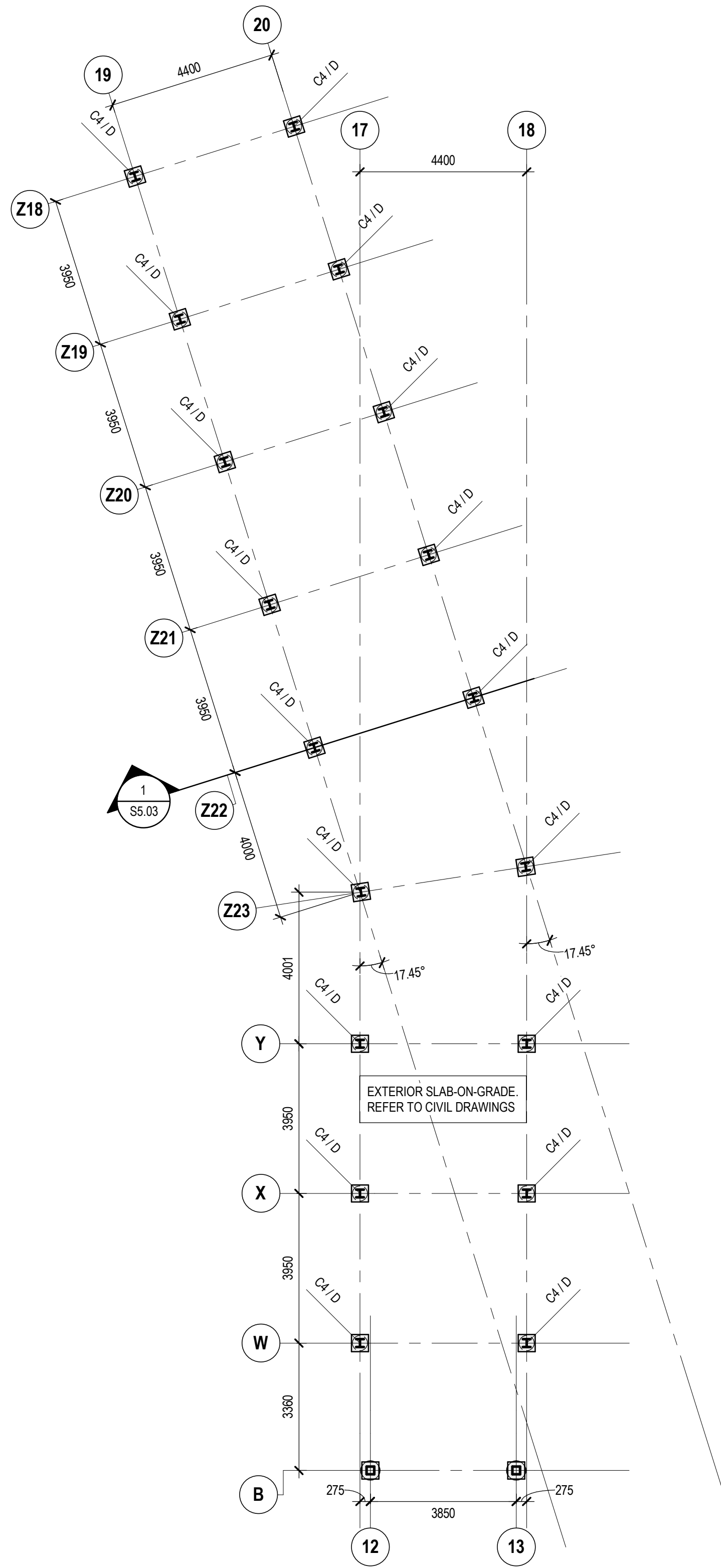
gpc architecture

drawing title
**MILL WOODS TRANSIT CENTER
ROOF FRAMING PLANS - SHEET 3**

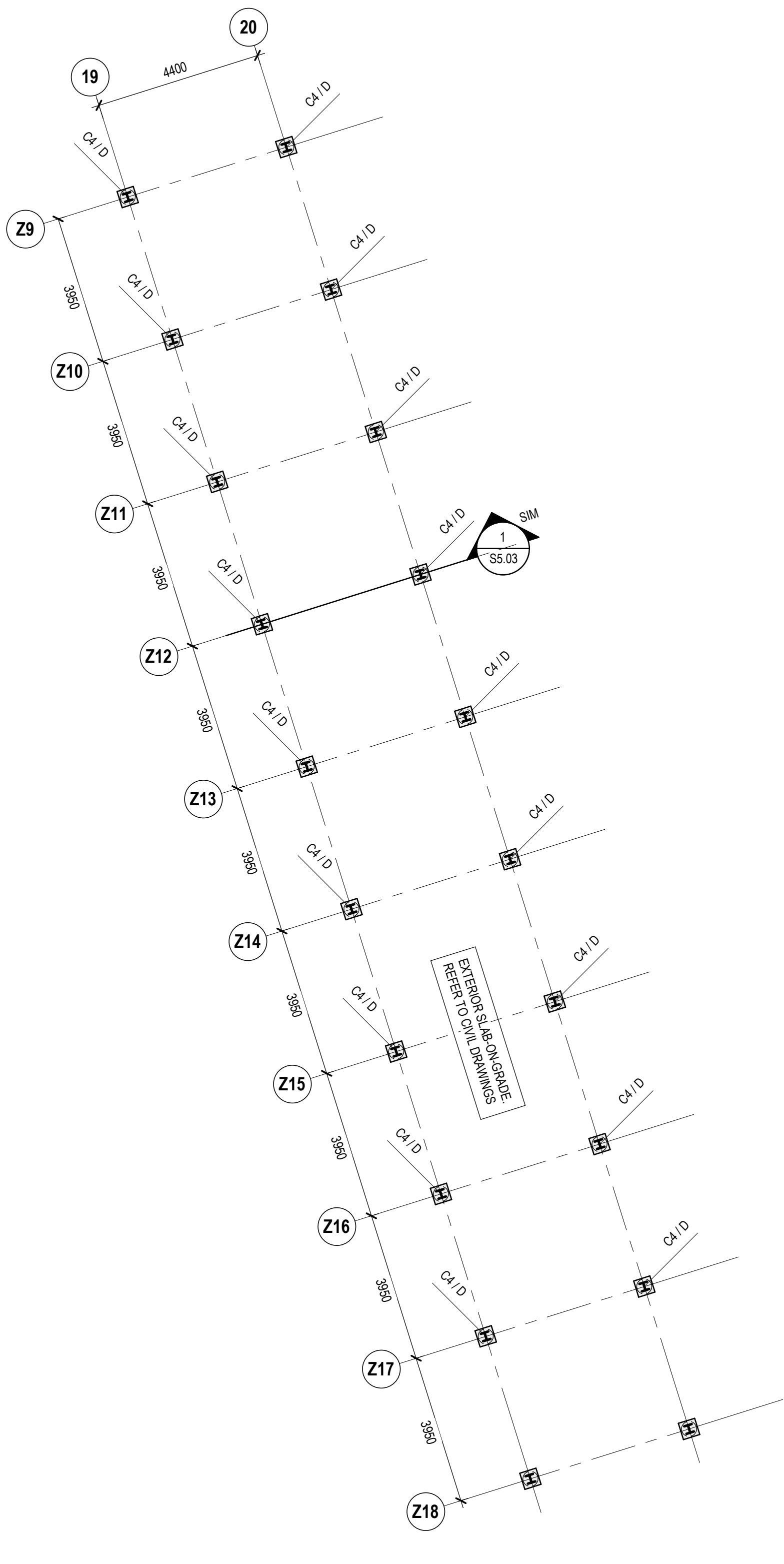
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S2.05
REV 0
SHT

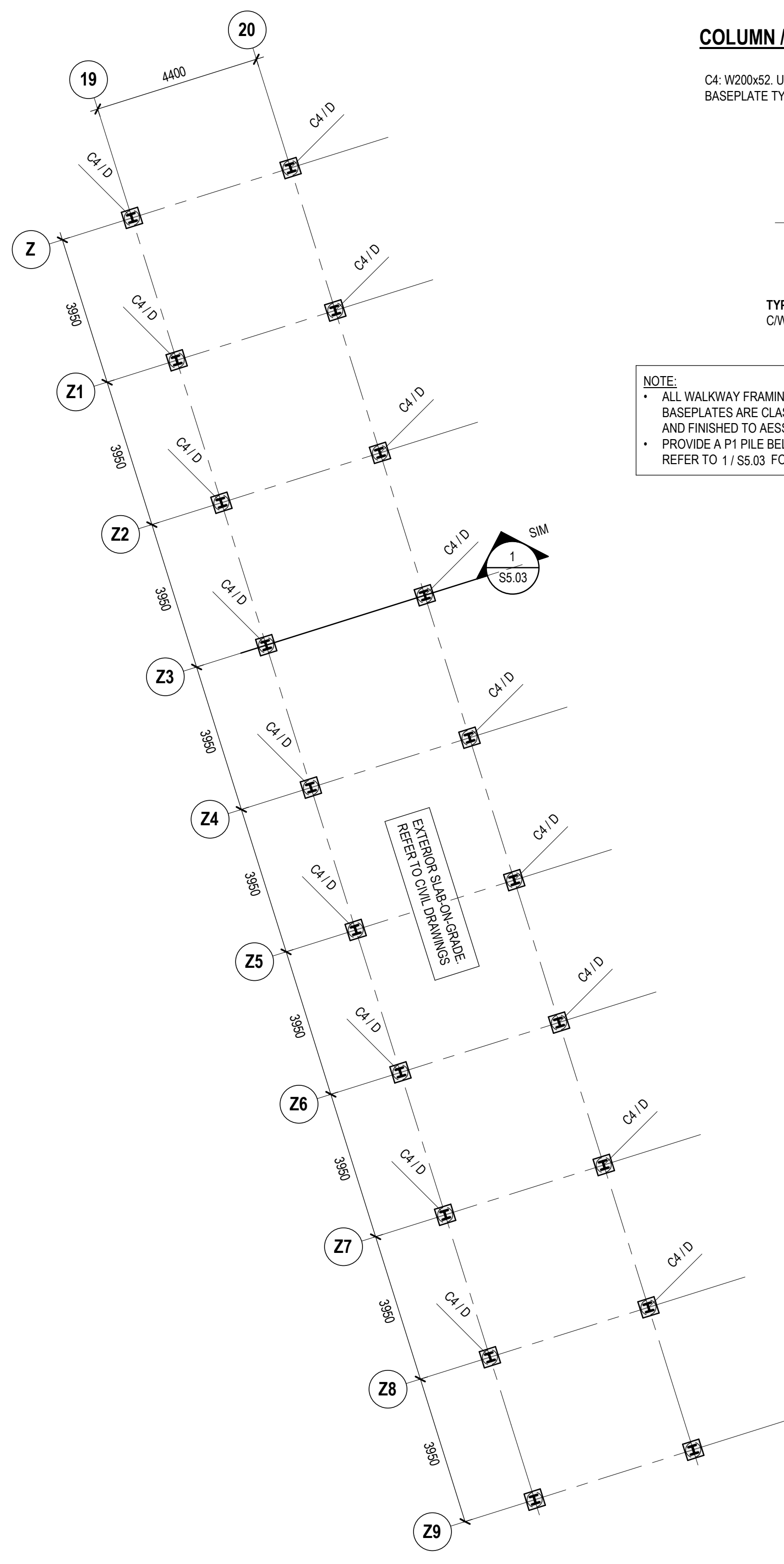
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PROJECT NORTH ↑
 1
 S2.06
 WALKWAY FOUNDATION AND MAIN FLOOR FRAMING PLAN - PART 1
 SCALE: 1:100



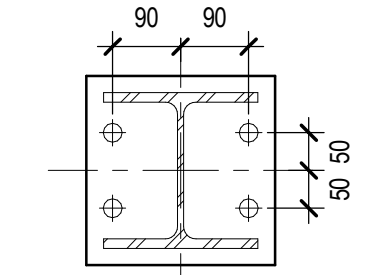
PROJECT NORTH ↑
 2
 S2.06
 WALKWAY FOUNDATION AND MAIN FLOOR FRAMING PLAN - PART 2
 SCALE: 1:100



PROJECT NORTH ↑
 3
 S2.06
 WALKWAY FOUNDATION AND MAIN FLOOR FRAMING PLAN - PART 3
 SCALE: 1:100

COLUMN / BASEPLATE LEGEND

C4: W200x52. U/S BASEPLATE ASSEMBLY = 100200
 BASEPLATE TYPES AS FOLLOWS:



TYPE D: PL20x250x250 BASEPLATE
 CW 4-250 CAST-IN ANCHOR RODS

NOTE:
 • ALL WALKWAY FRAMING STEEL CONNECTIONS AND BASEPLATES ARE CLASSIFIED AS EXTERIOR EXPOSURE AND FINISHED TO AESS 3.
 • PROVIDE A P1 PILE BELOW ALL STEEL WALKWAY COLUMNS. REFER TO 1 / S5.03 FOR DETAIL.

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drawing title

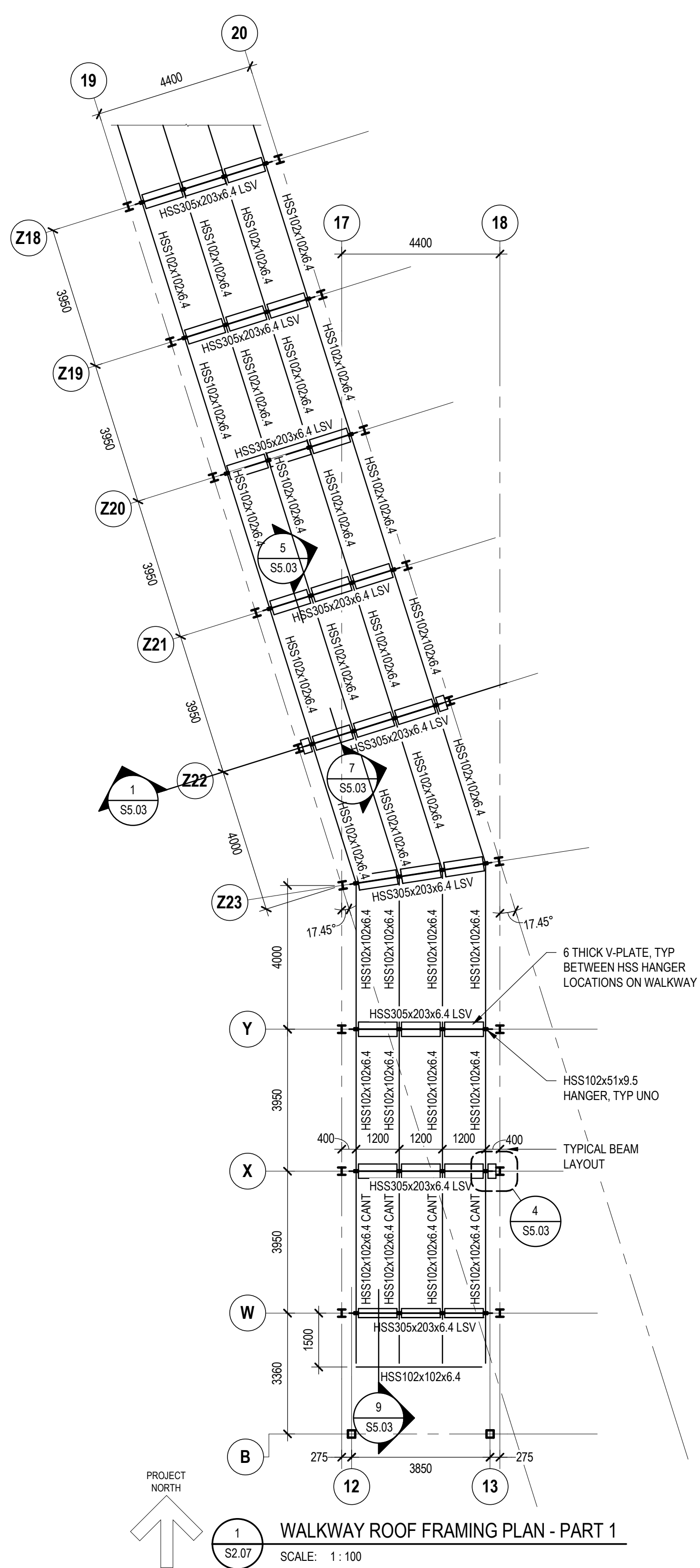
**MILL WOODS TRANSIT CENTER
 WALKWAY FOUNDATION AND MAIN FLOOR
 FRAMING PLANS**

VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

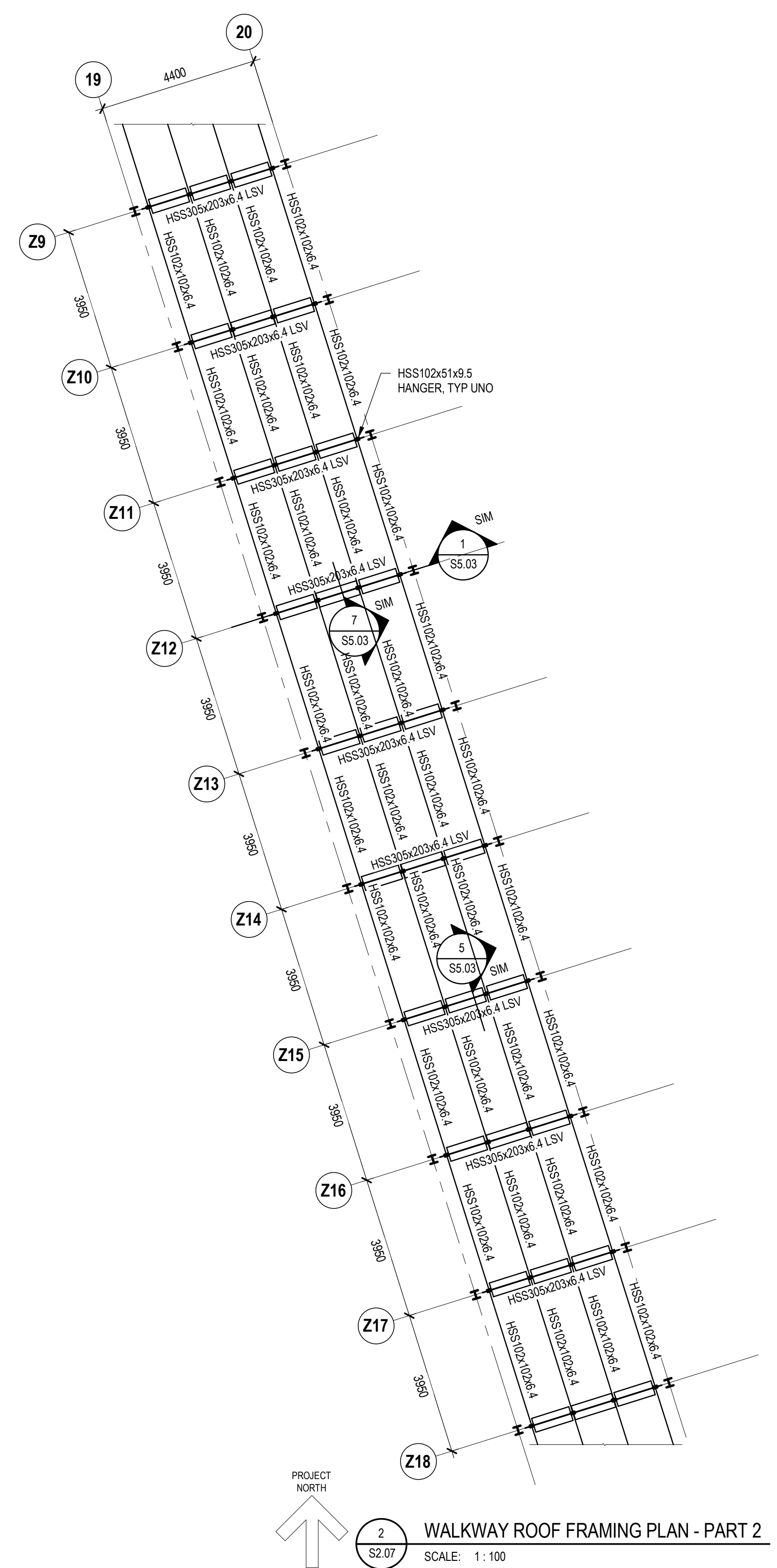
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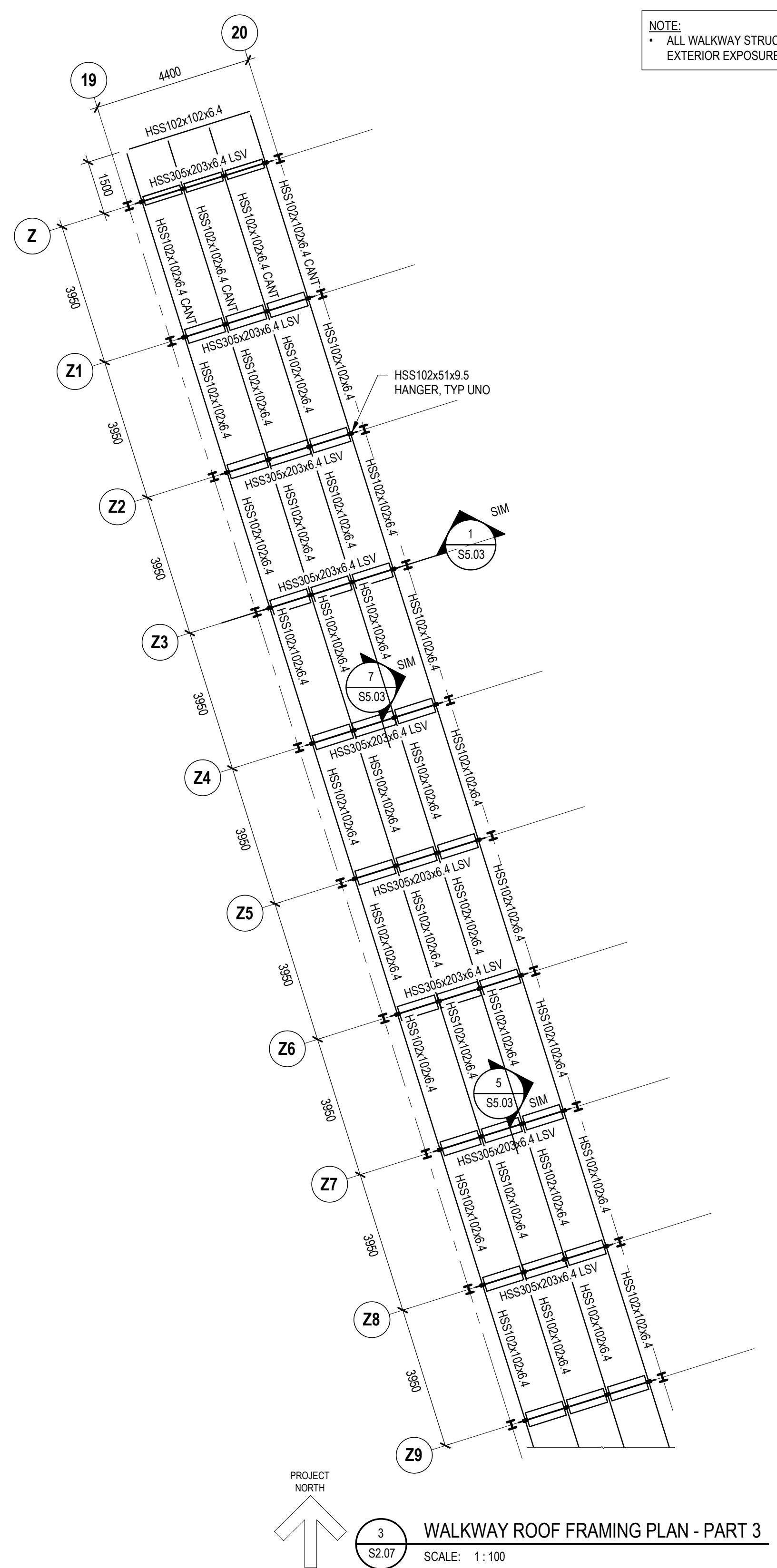
NOTE:
 • ALL WALKWAY STRUCTURAL STEEL IS CLASSIFIED AS EXTERIOR EXPOSURE AND FINISHED TO AESS 3.



1 WALKWAY ROOF FRAMING PLAN - PART 1
 S2.07 SCALE: 1:100



2 WALKWAY ROOF FRAMING PLAN - PART 2
 S2.07 SCALE: 1:100



3 WALKWAY ROOF FRAMING PLAN - PART 3
 S2.07 SCALE: 1:100

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no.	description	date	checked
	revisions		

DIALOG
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gec architecture

drawing title

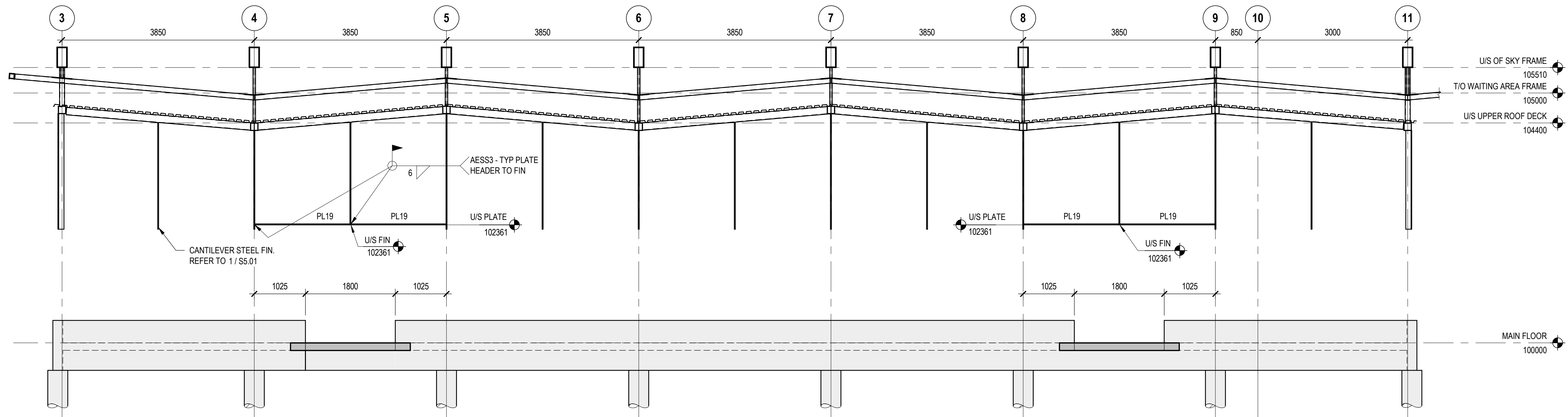
**MILL WOODS TRANSIT CENTER
 WALKWAY ROOF FRAMING PLANS**

VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

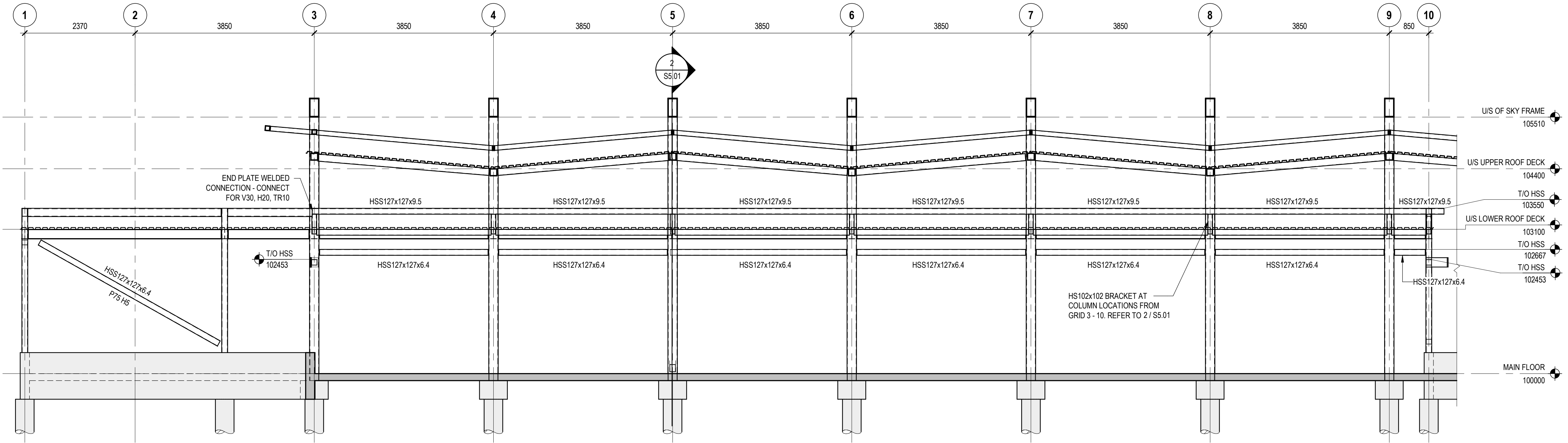
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REV 0
 SHT

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1 ELEVATION - GRID C
S3.01 SCALE: 1:50



2 ELEVATION - GRID B
S3.01 SCALE: 1:50

no.	description	date	checked
1	ISSUED FOR TENDER	2019-05-03	RR
	issue data		appd.
no.	description	date	checked
	revisions		

DIALOG
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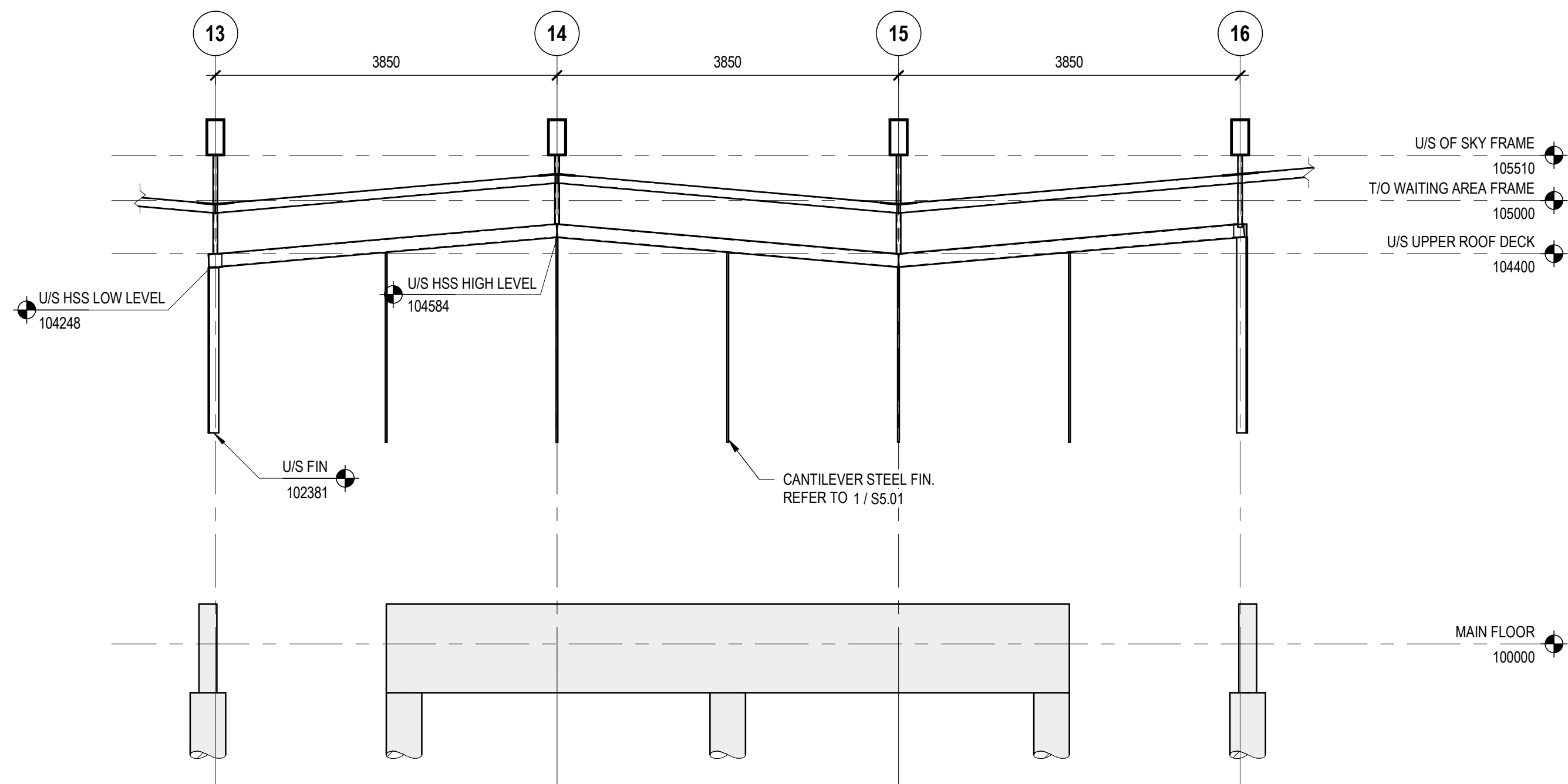
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drawing title
**MILL WOODS TRANSIT CENTER
EXTERIOR ELEVATIONS - SHEET 2**

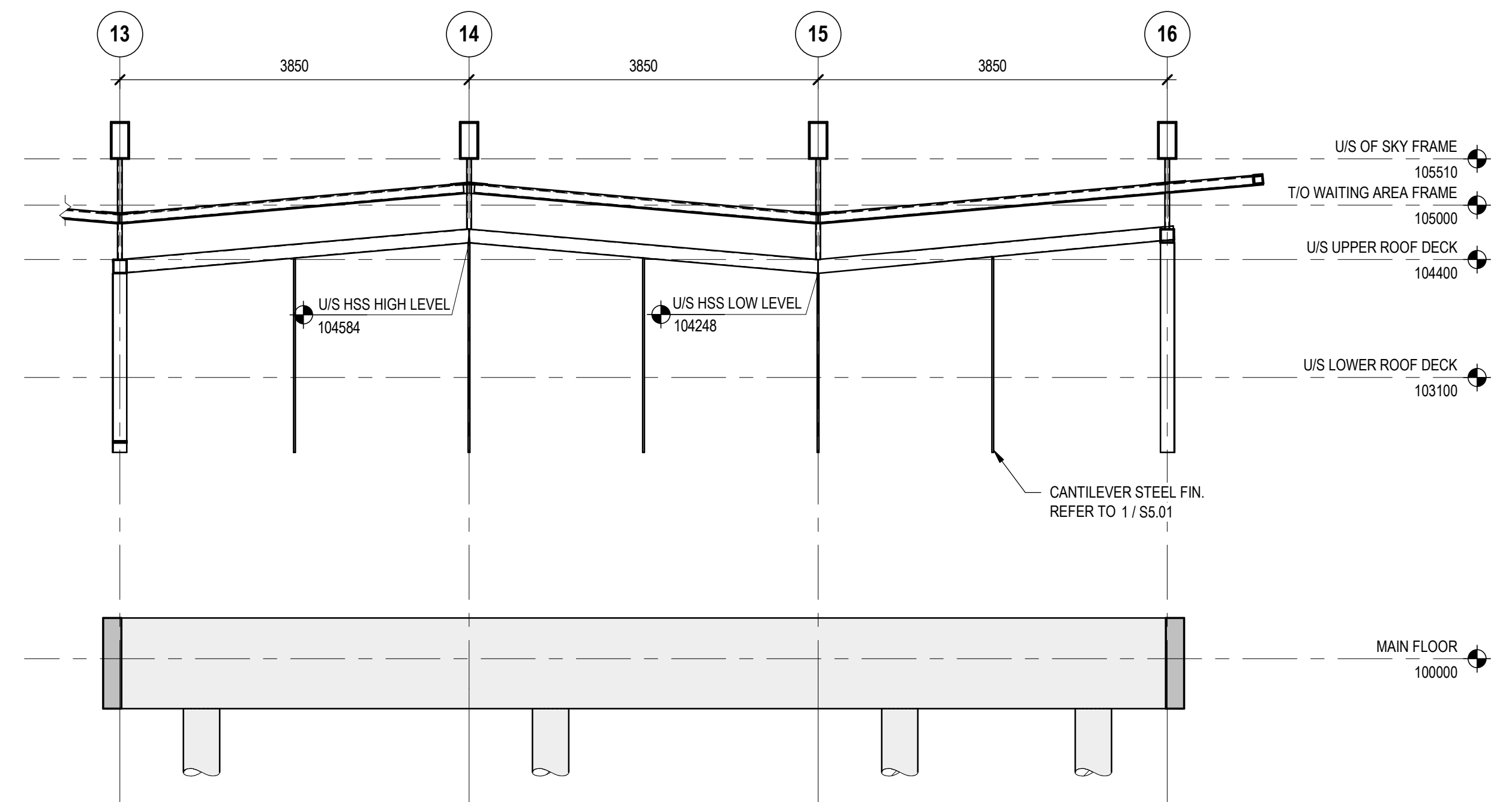
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S3.01
REV 0
SHT

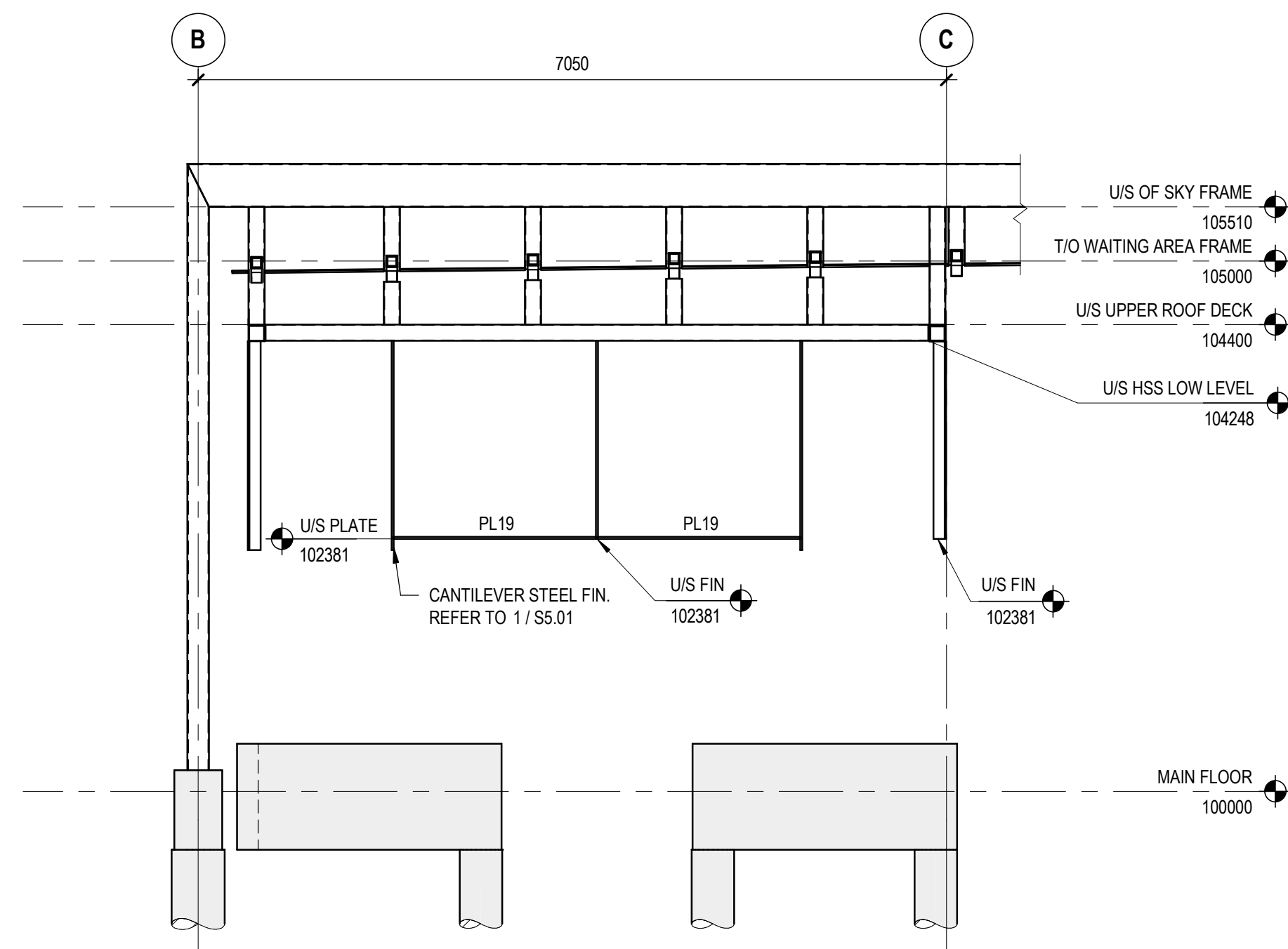
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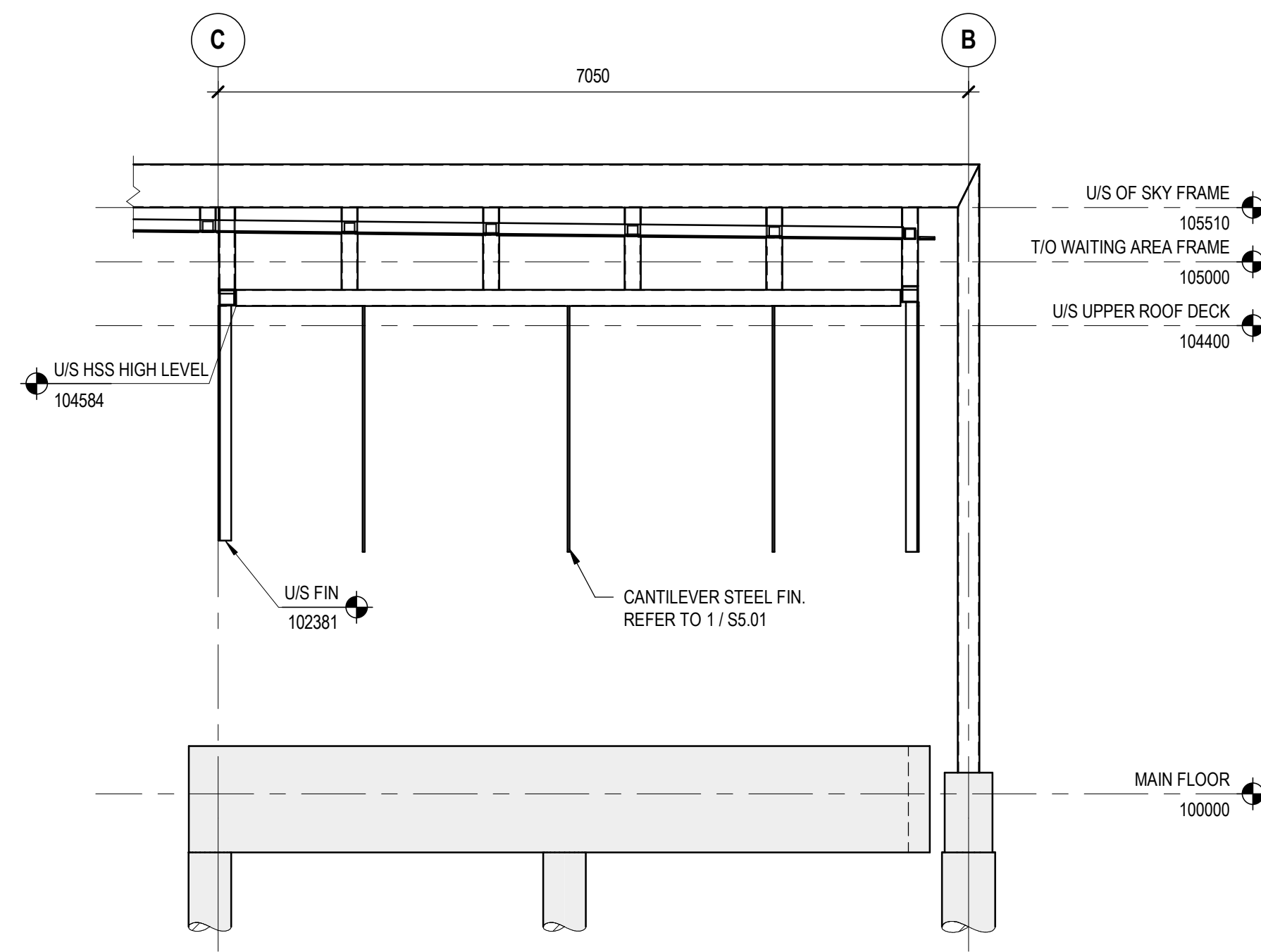
1 WAITING AREA - SOUTH ELEVATION
S3.02 SCALE: 1:50



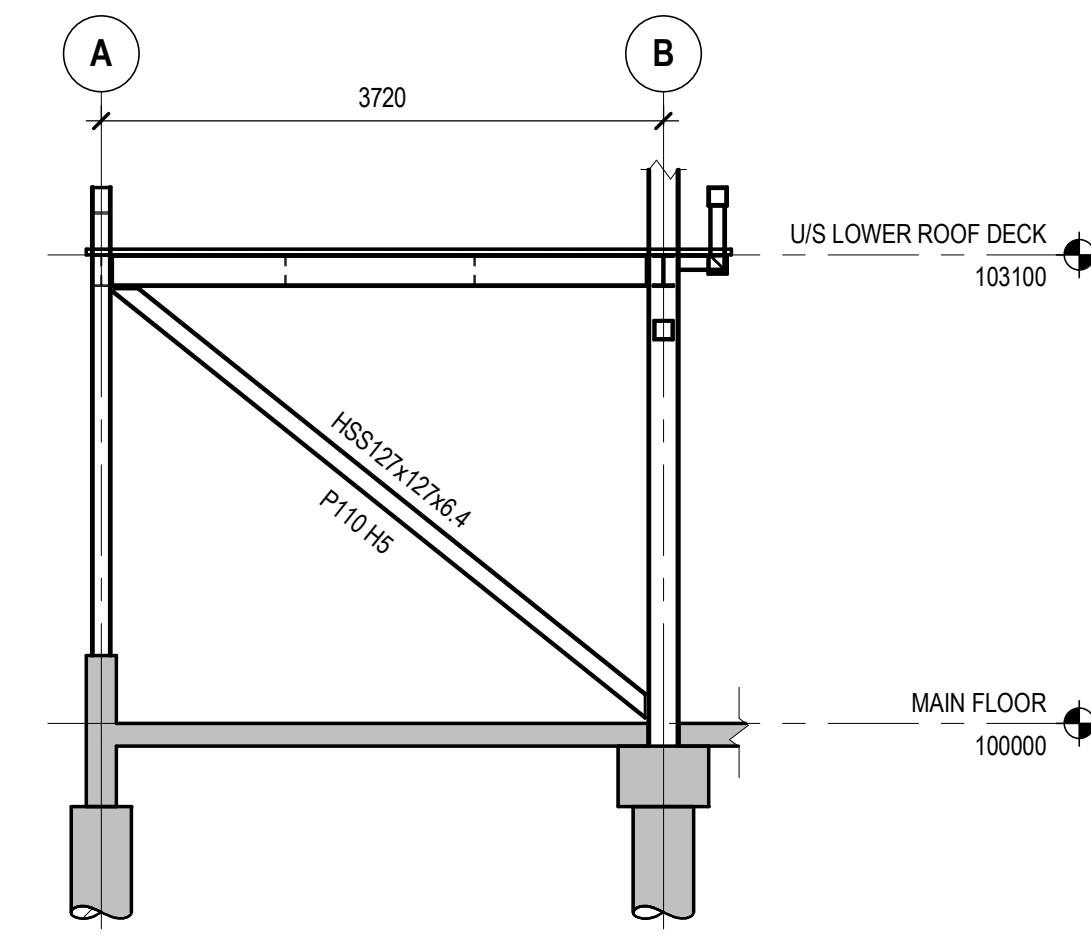
2 WAITING AREA - NORTH ELEVATION
S3.02 SCALE: 1:50



3 WAITING AREA - WEST ELEVATION
S3.02 SCALE: 1:50



4 WAITING AREA - EAST ELEVATION
S3.02 SCALE: 1:50



5 INTERIOR BRACE ELEVATION - ALONG GRIDLINE 5
S3.02 SCALE: 1:50

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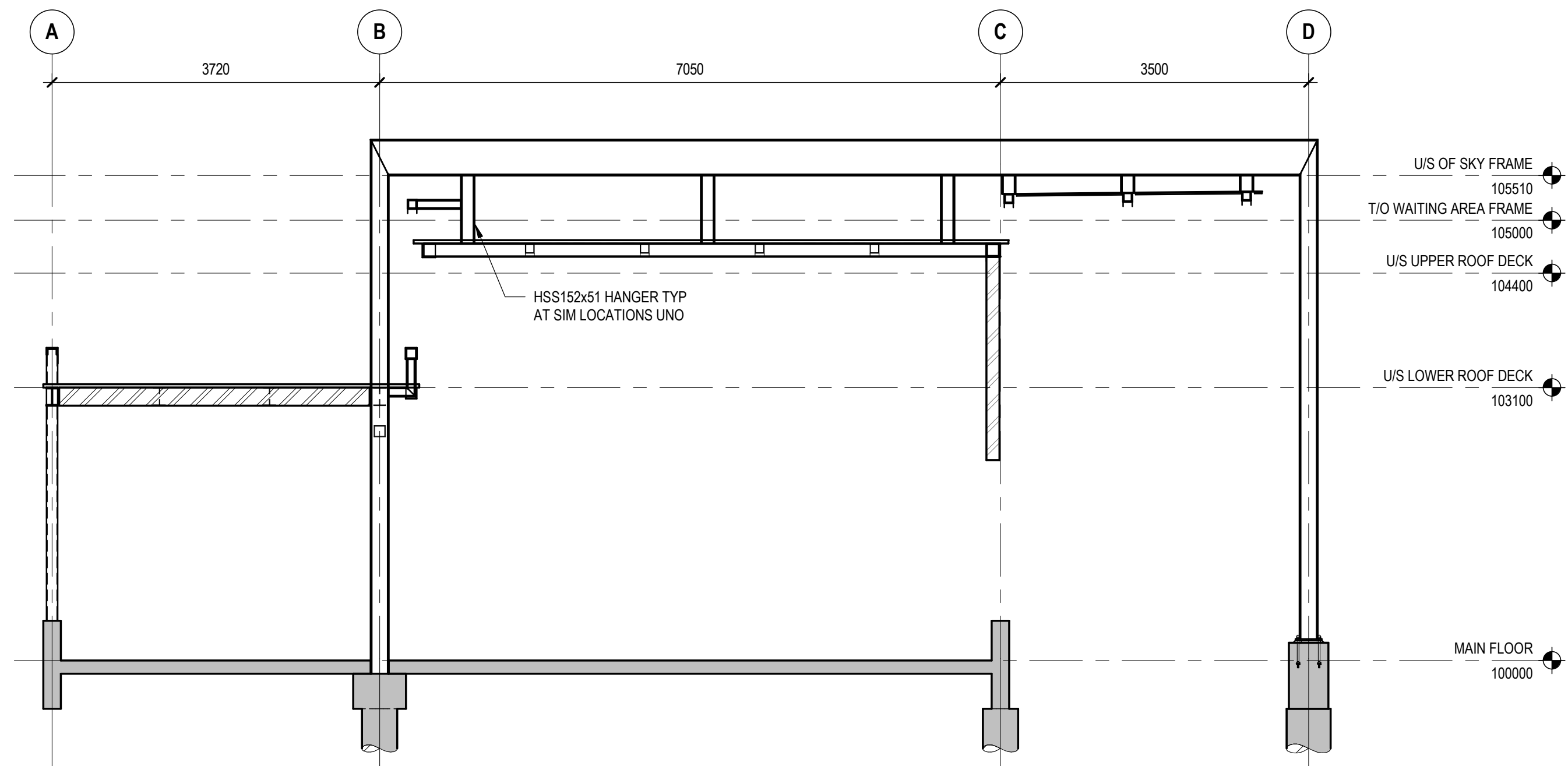
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drawing title
**MILL WOODS TRANSIT CENTER
EXTERIOR ELEVATIONS - SHEET 3**

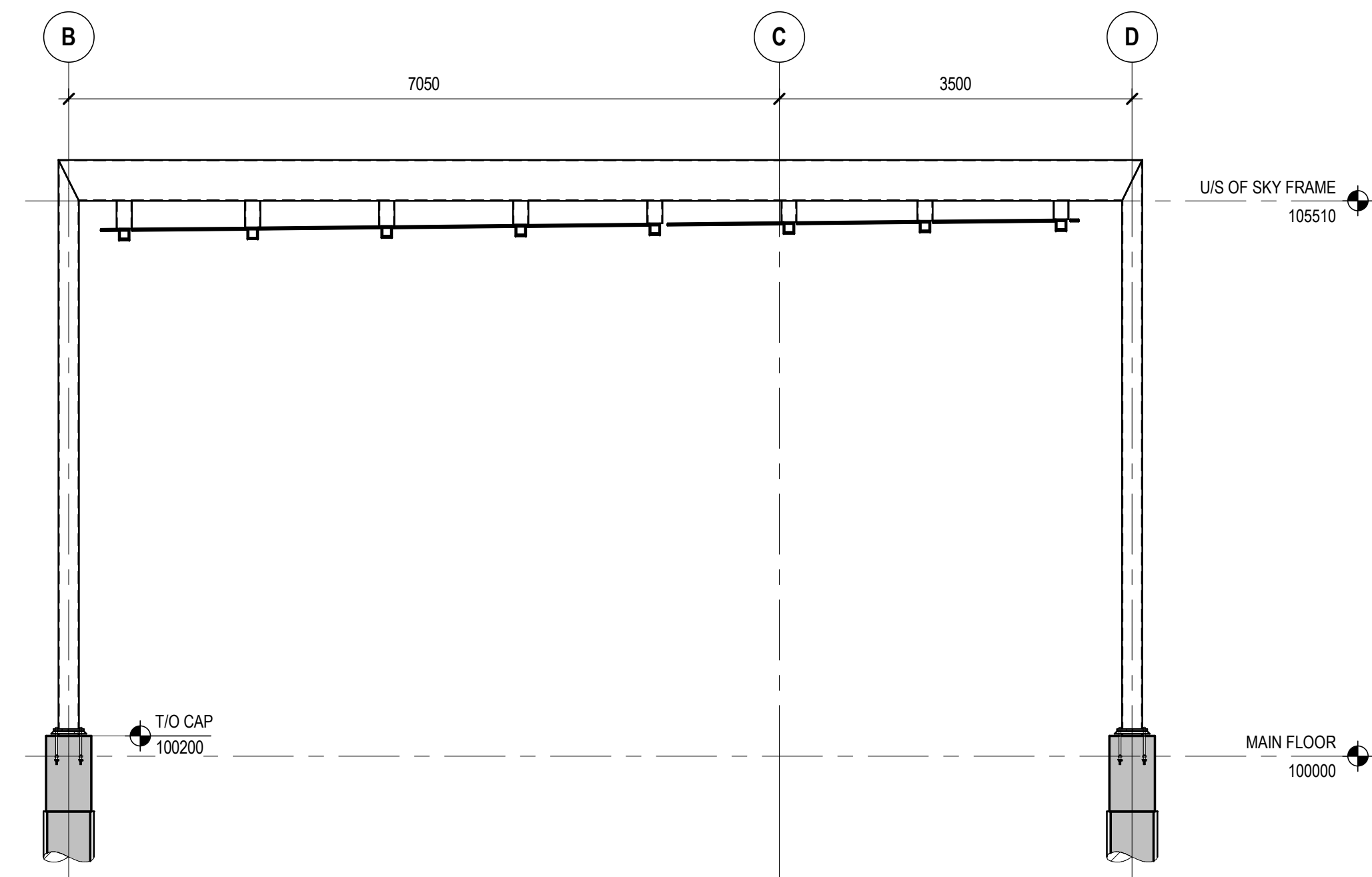
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 S3.02
REV 0
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1 OVERALL SECTION - INTERIOR
S3.03 SCALE: 1:50



2 OVERALL SECTION - EXTERIOR
S3.03 SCALE: 1:50

NOTE:
THE OVERALL SECTIONS SHOW A LIMITED AMOUNT OF INFORMATION AND IS PROVIDED ONLY TO ILLUSTRATE OVERALL CONTEXT. REFER TO DRAWINGS AND SPECIFICATIONS FOR DETAILED INFORMATION.

no.	description	date	checked
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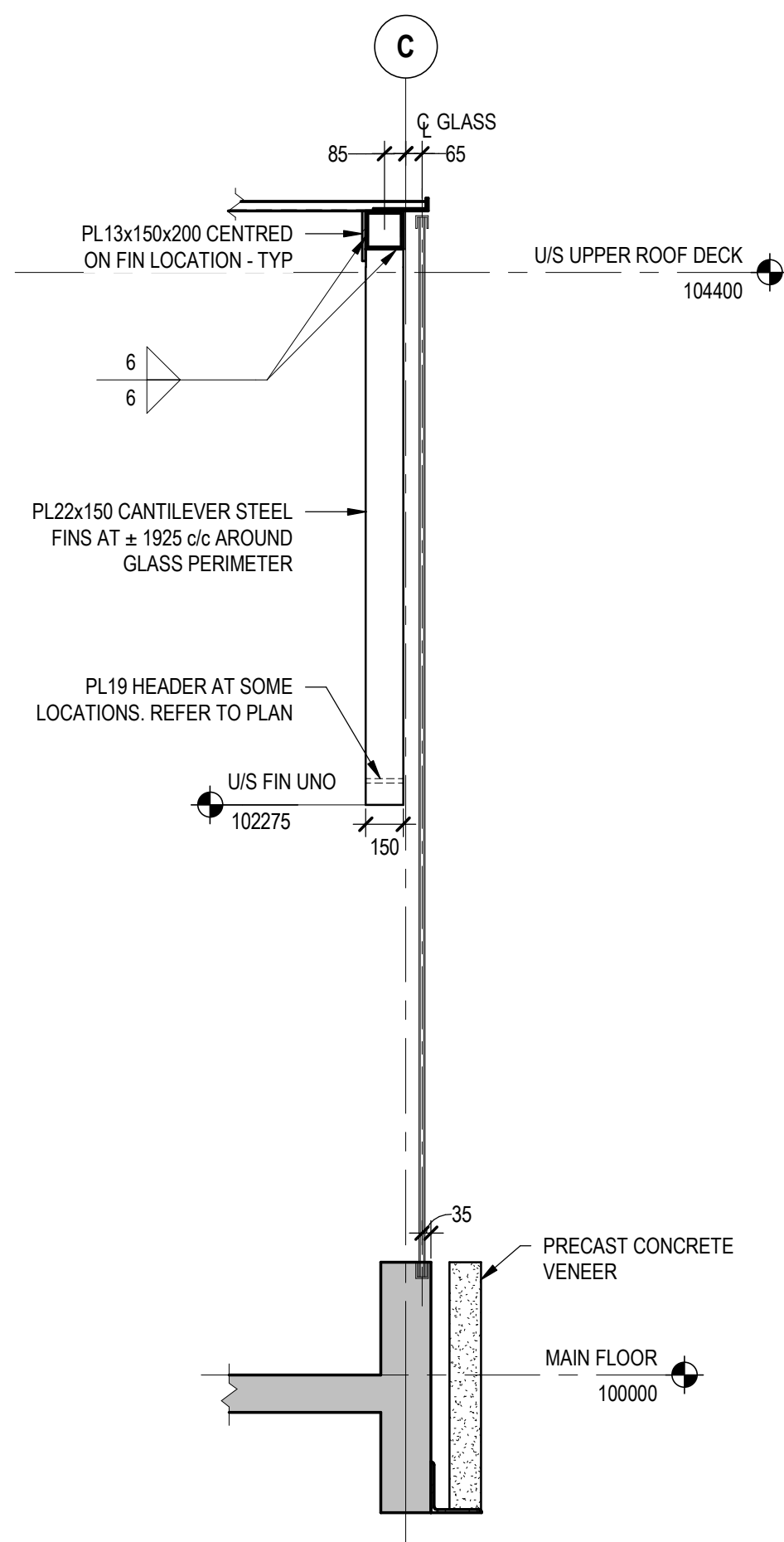
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drawing title
MILL WOODS TRANSIT CENTER
BUILDING CROSS SECTIONS

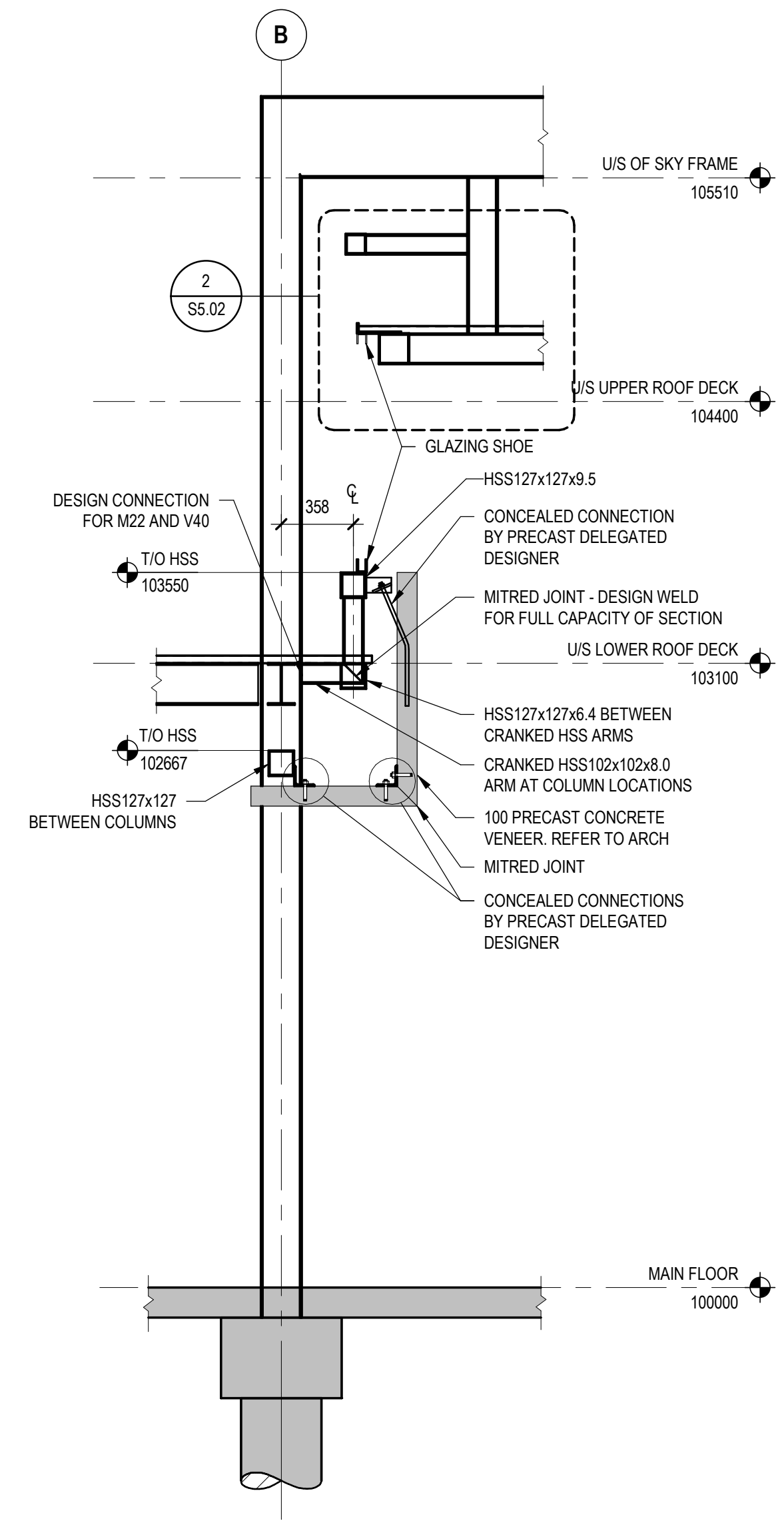
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

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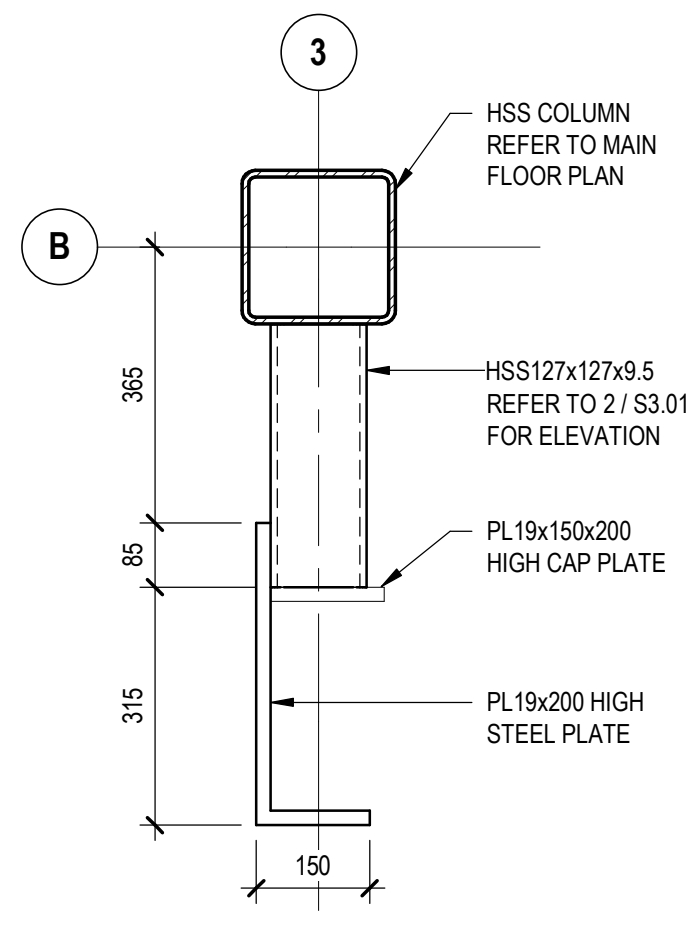
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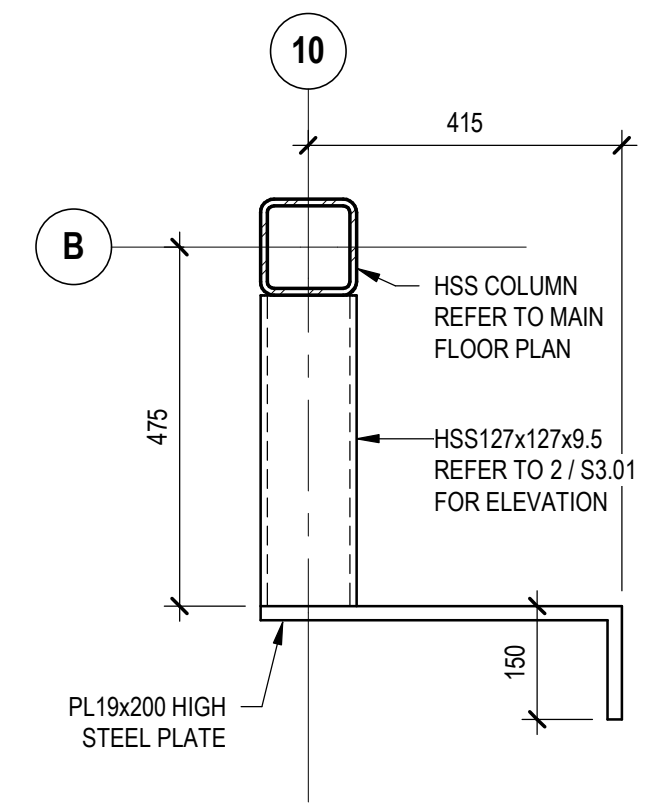
1 CANTILEVER STEEL FIN SECTION
S5.01 SCALE: 1:25



2 INTERIOR VENEER SECTION
S5.01 SCALE: 1:25



3 PLAN DETAIL
S5.01 SCALE: 1:10



4 PLAN DETAIL
S5.01 SCALE: 1:10

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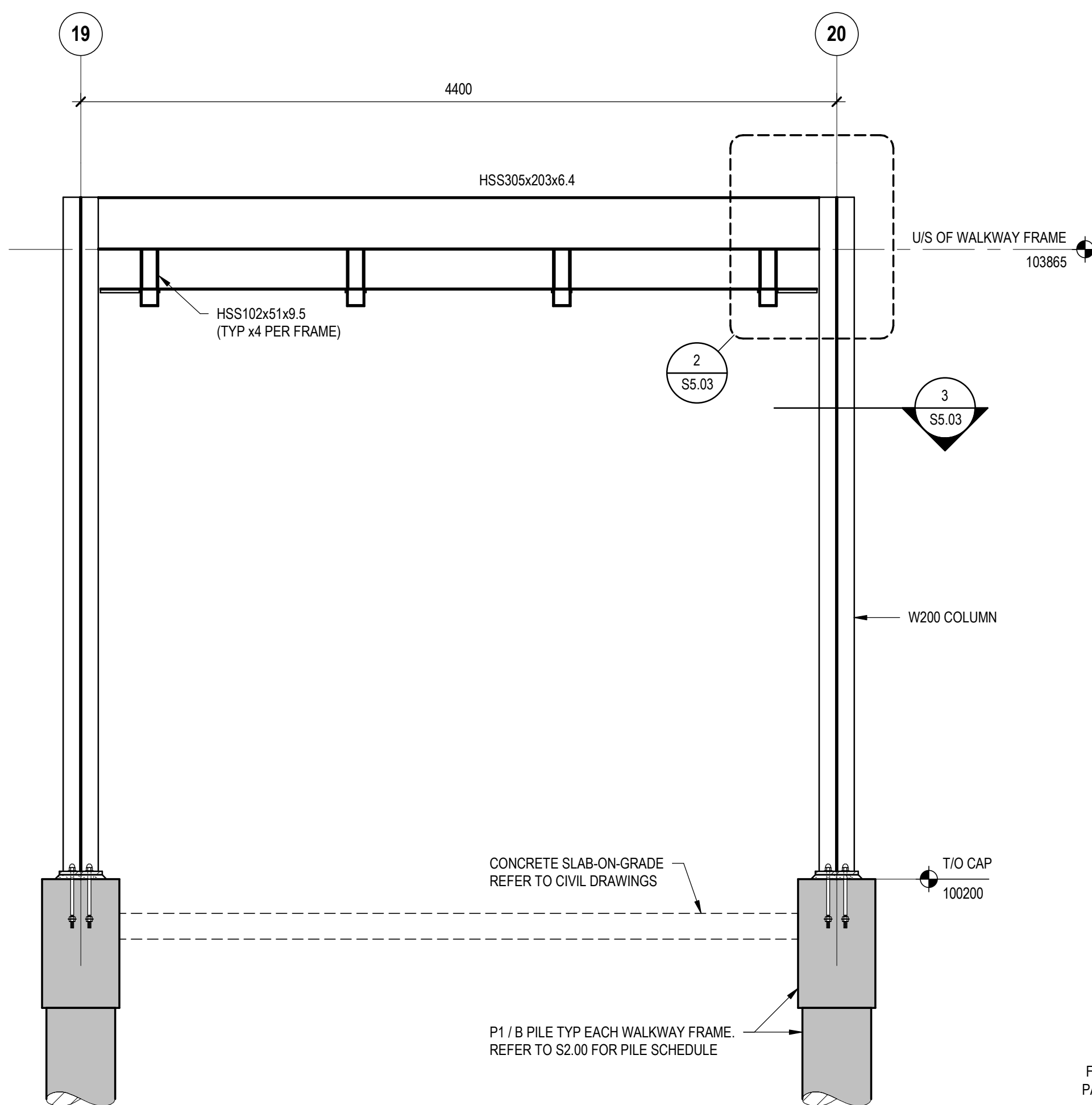
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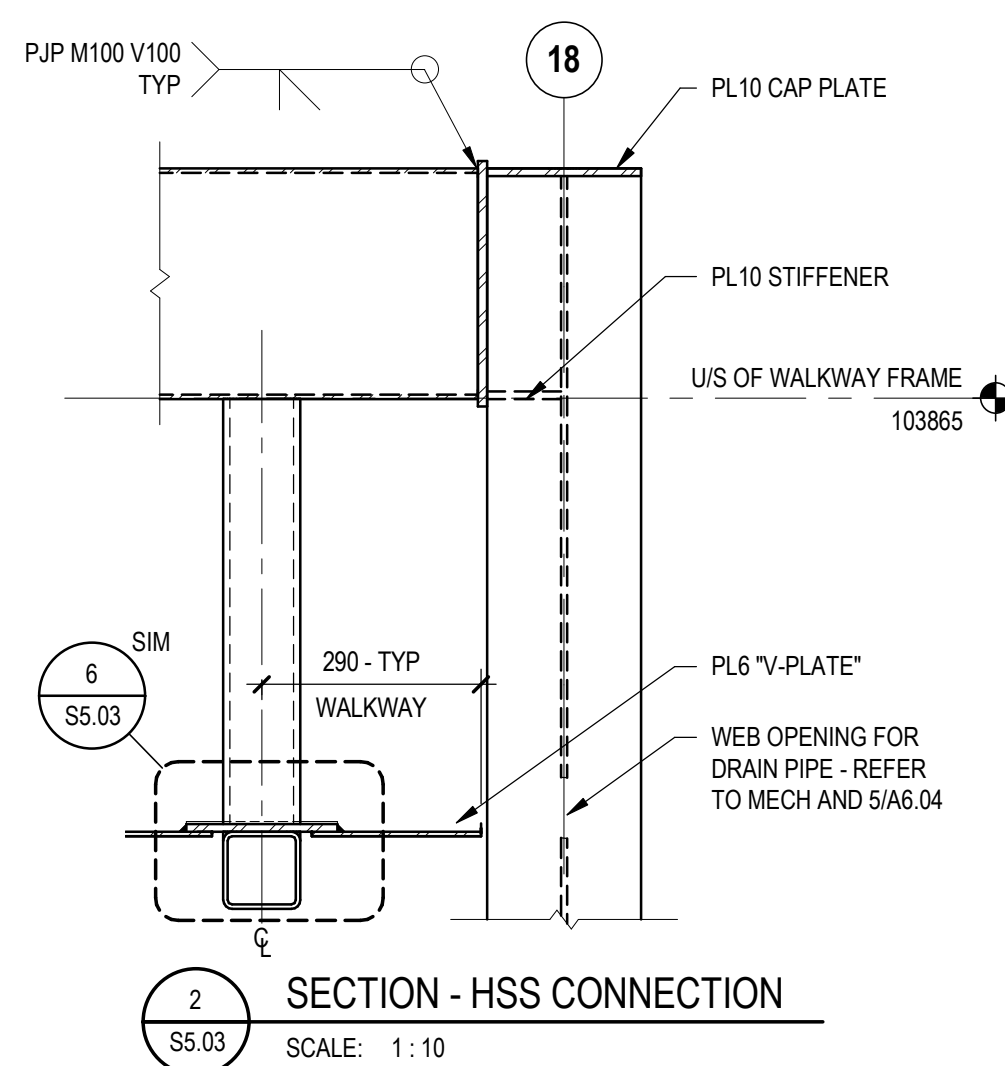
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MILL WOODS TRANSIT CENTER
STEEL SECTIONS - SHEET 1

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

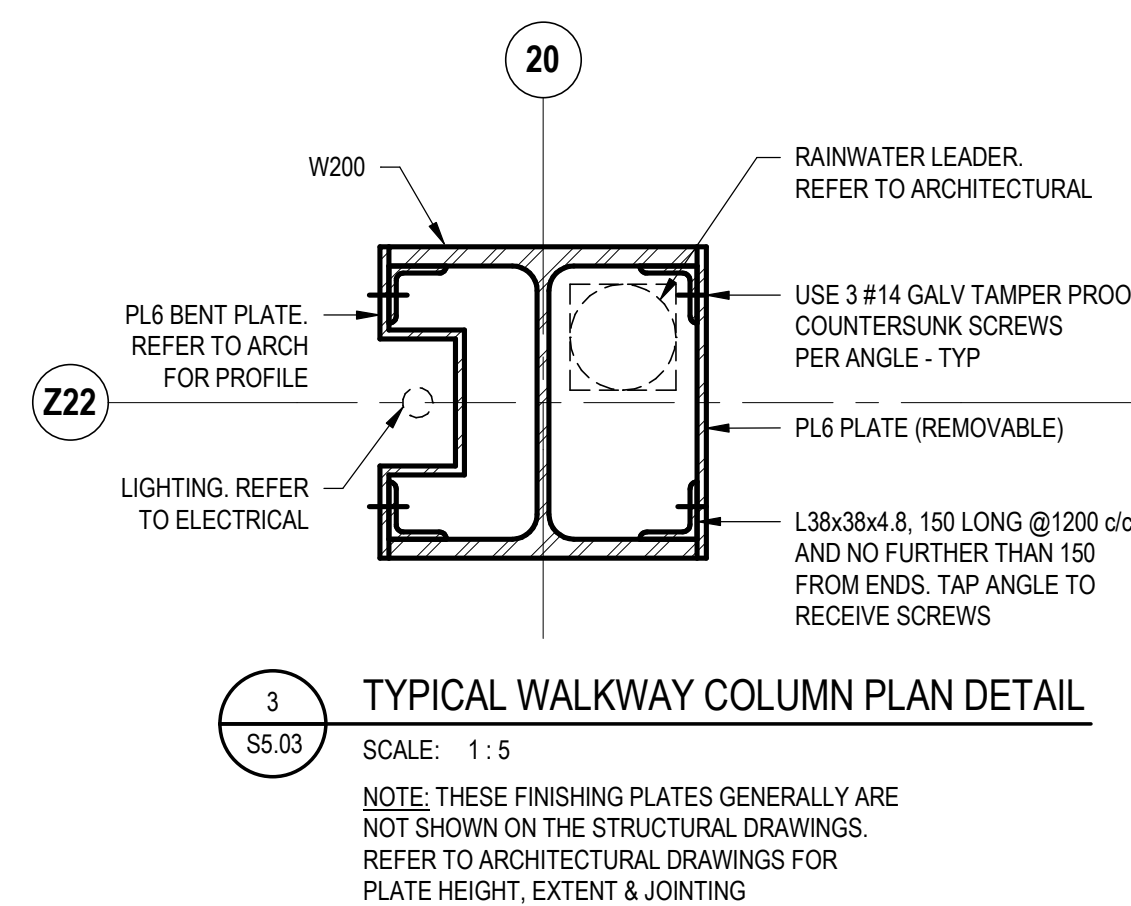
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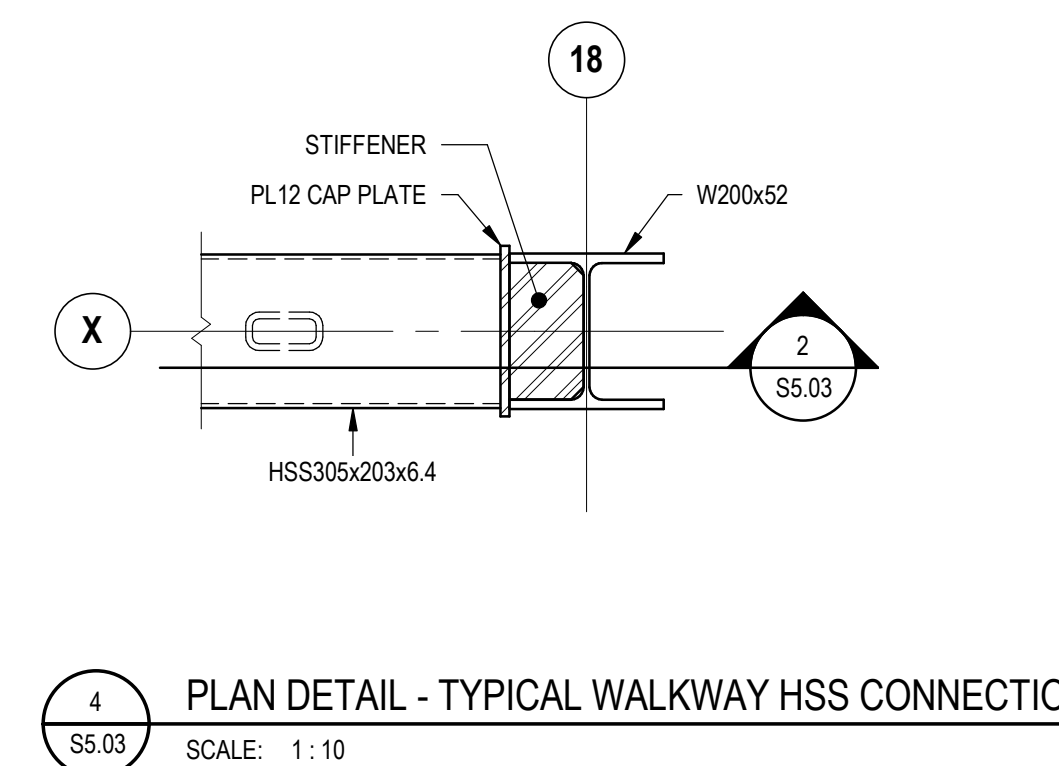
1 TYPICAL WALKWAY FRAME SECTION
SCALE: 1:25



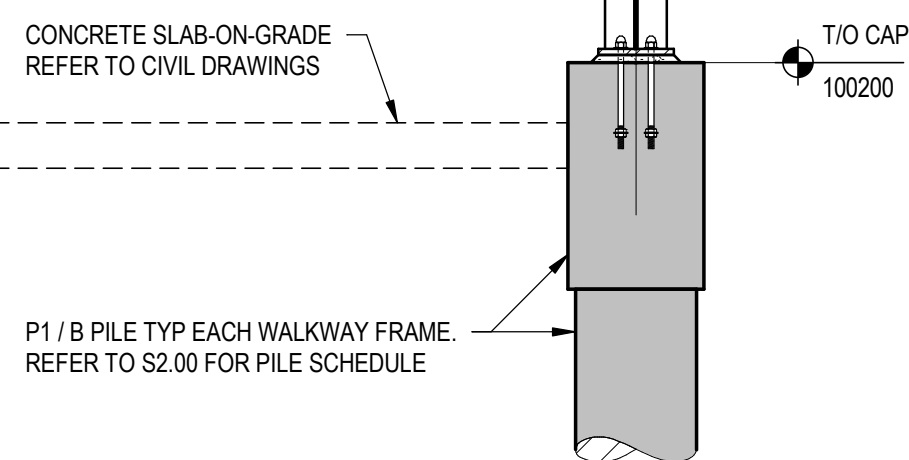
2 SECTION - HSS CONNECTION
SCALE: 1:10



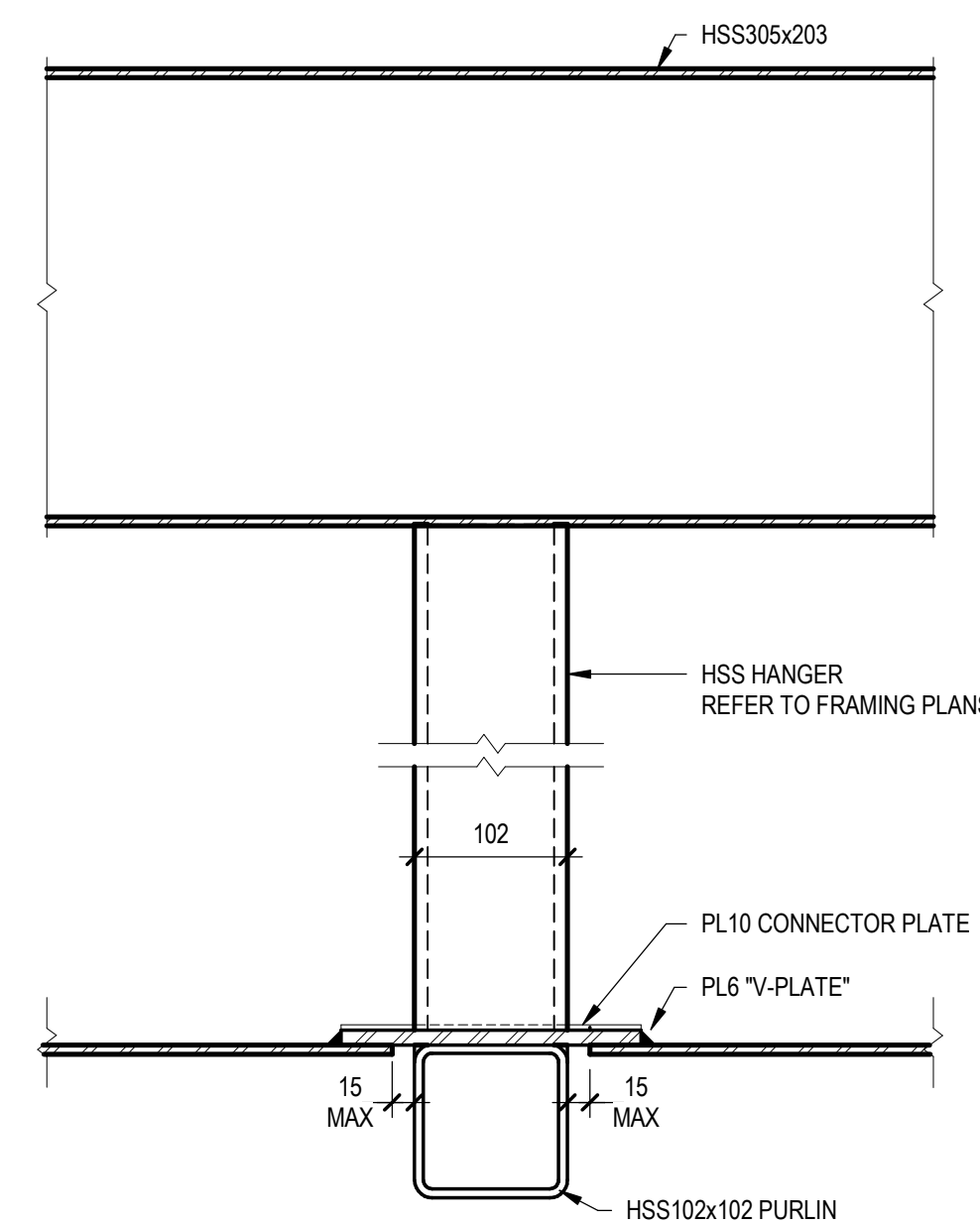
3 TYPICAL WALKWAY COLUMN PLAN DETAIL
SCALE: 1:5
NOTE: THESE FINISHING PLATES GENERALLY ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS. REFER TO ARCHITECTURAL DRAWINGS FOR PLATE HEIGHT, EXTENT & JOINTING



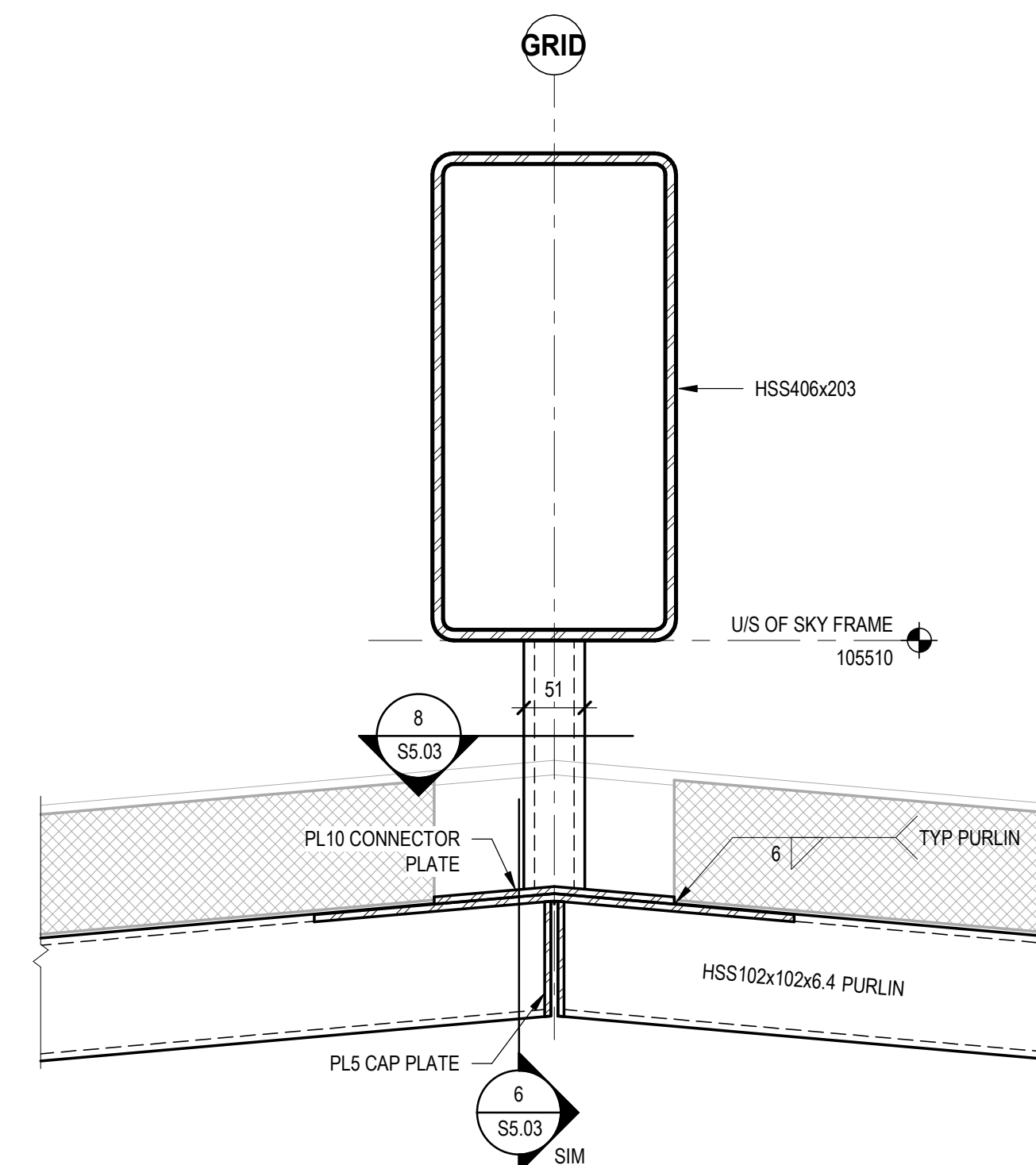
4 PLAN DETAIL - TYPICAL WALKWAY HSS CONNECTION
SCALE: 1:10



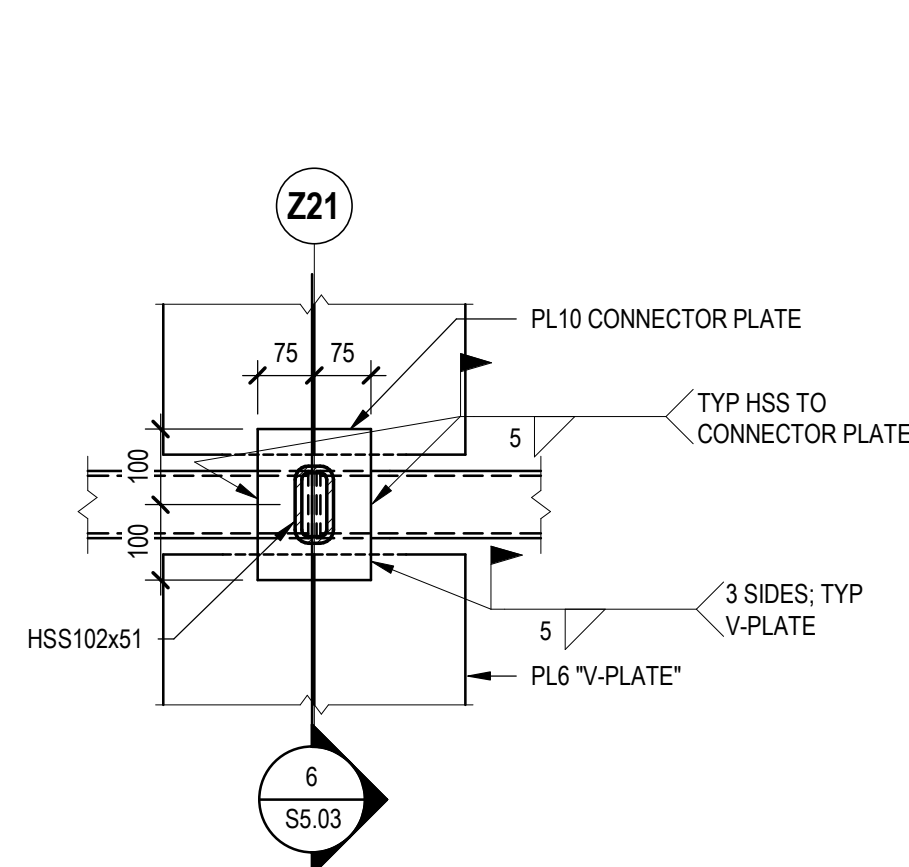
5 TYPICAL WALKWAY VALLEY PLATE CONNECTION
SCALE: 1:5



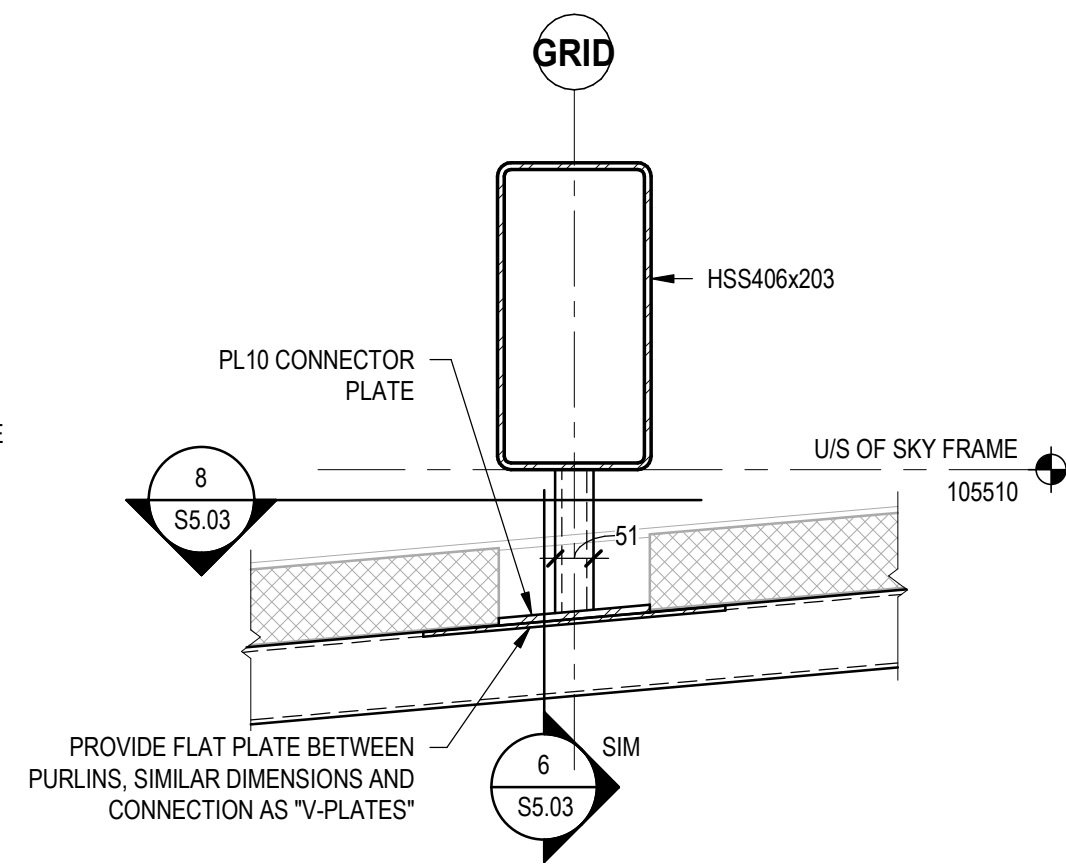
6 PURLIN CONNECTION AT FRAME
SCALE: 1:5



7 TYPICAL BUILDING RIDGE PLATE CONNECTION
SCALE: 1:5



8 HSS CONNECTION - TOP VIEW
SCALE: 1:10

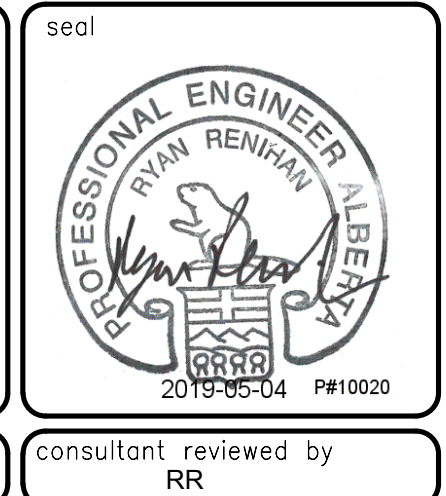


9 TYPICAL BUILDING FLAT PLATE CONNECTION
SCALE: 1:10

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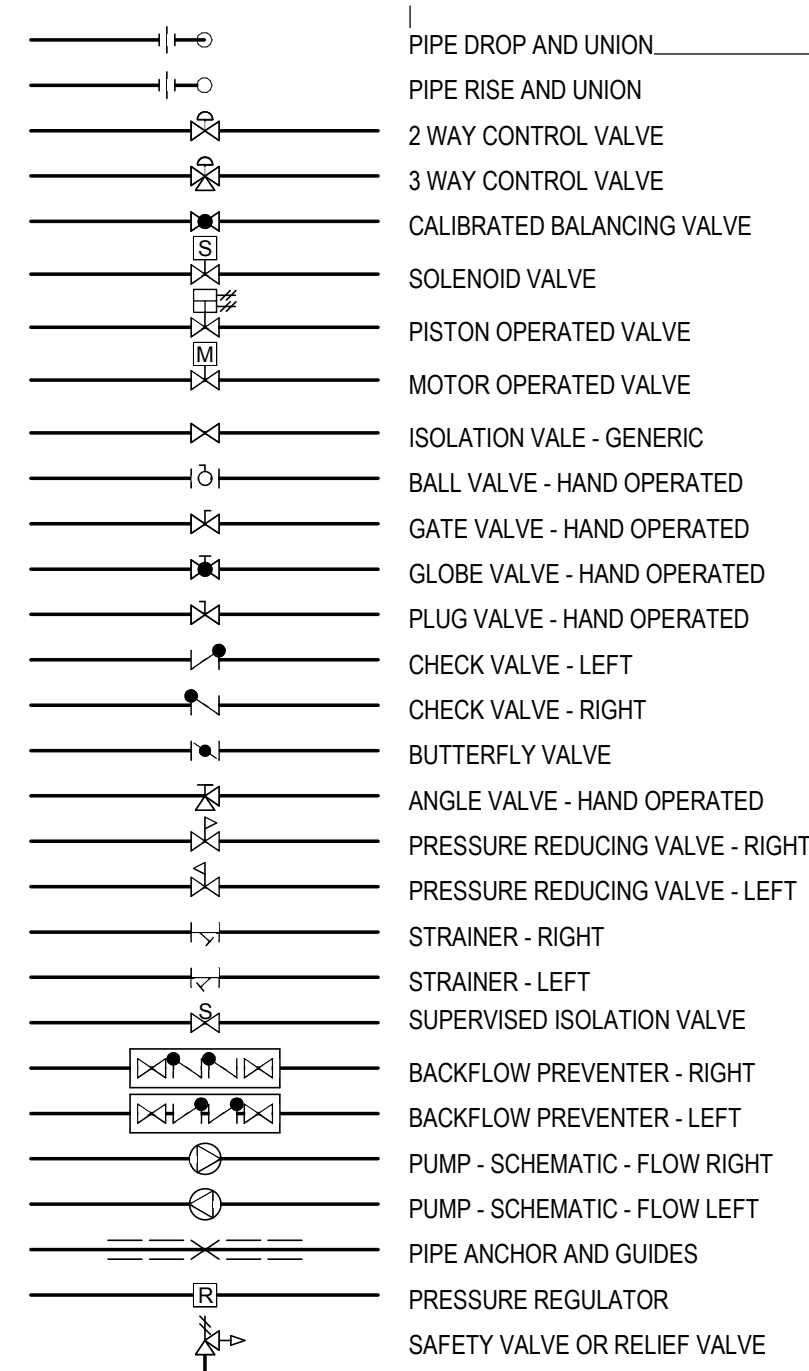


DIALOG	gpc architecture
drawing title MILL WOODS TRANSIT CENTER STEEL SECTIONS - SHEET 3	
prime consultant job no.	prime consultant reviewed by

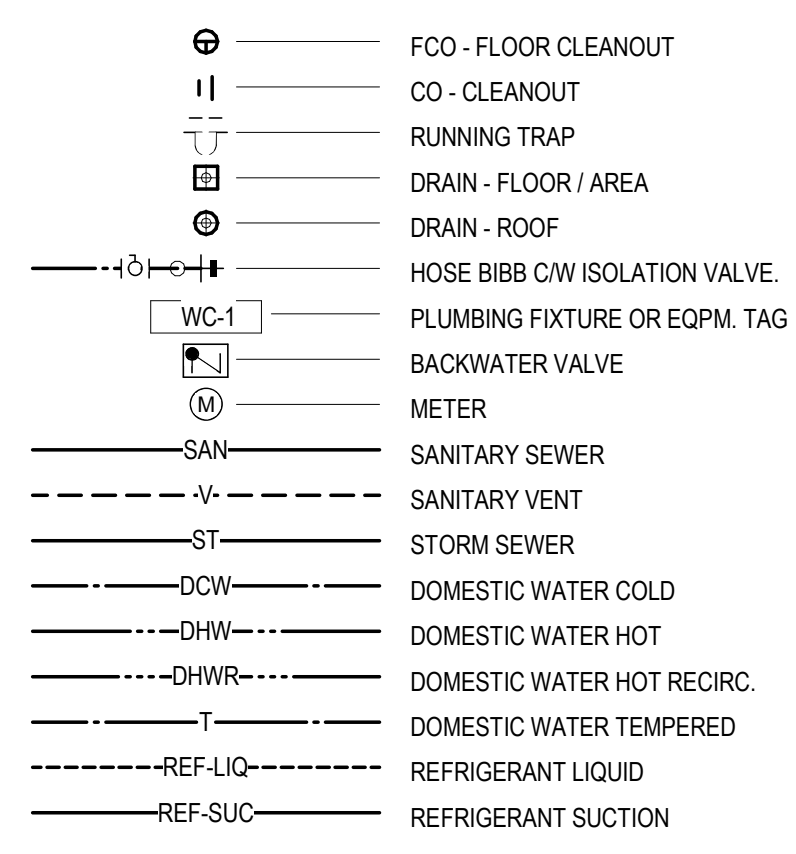
VALLEY LINE - STAGE 1 MILL WOODS TO DOWNTOWN	
drawing no. MWTC 191 S5.03	REV 0 SHT

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PIPE VALVES AND FITTINGS

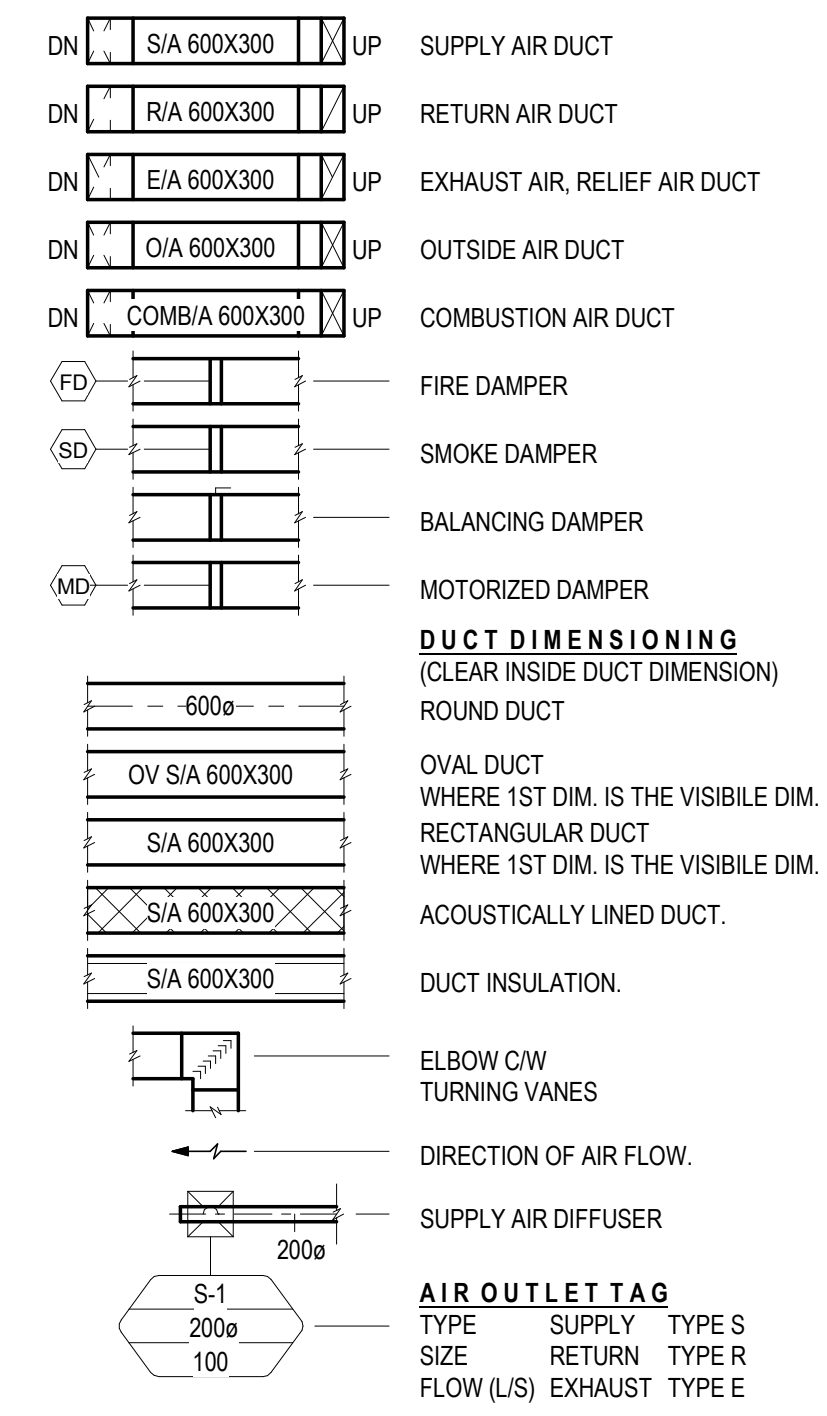


PLUMBING AND PIPING

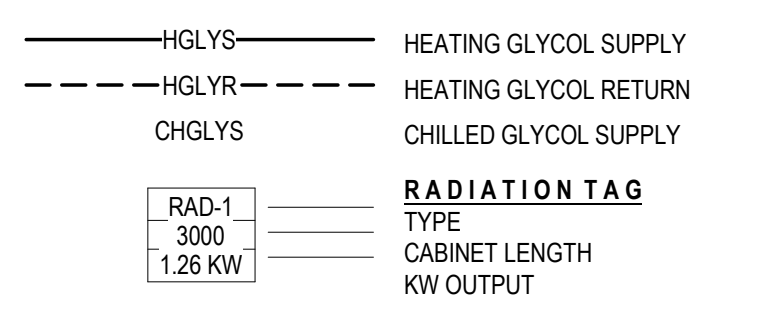


NOTE:
PIPES FOR THE 1:50 FLOOR PLANS AND 1:25 LARGE SCALE PLANS AND SECTIONS FOR THIS PROJECT ARE SHOWN DOUBLE LINE. THE LINE TYPES AND PIPING DESIGNATIONS ARE AS PER THIS LEGEND. PIPE VALVES AND FITTINGS ARE ALSO SHOWN REALISTICALLY NOT SCHEMATICALLY. SEE DRAWING NOTES FOR CLARIFICATION.

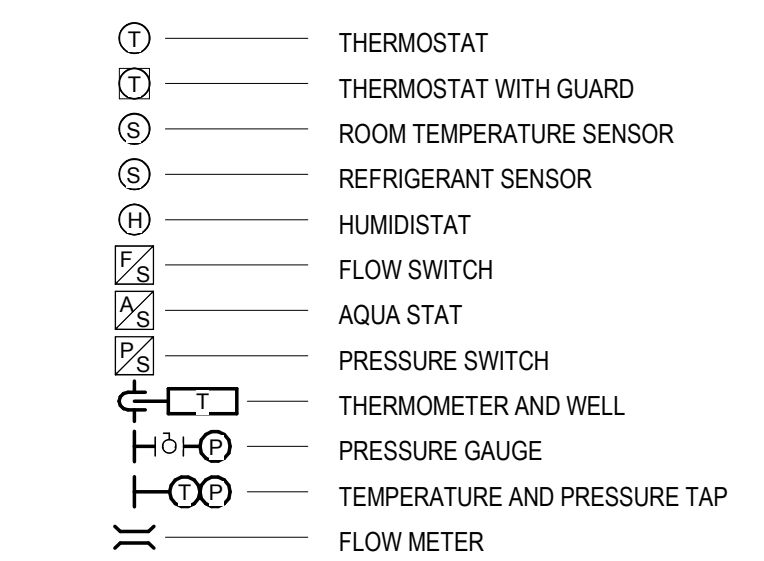
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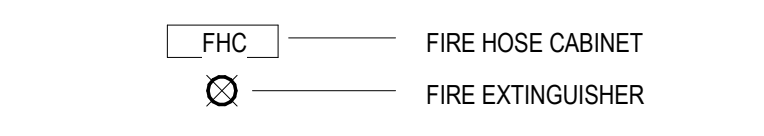
LIQUID HEAT TRANSFER



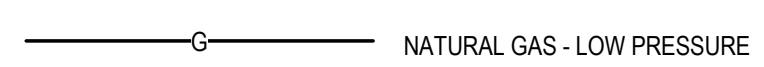
CONTROLS AND INSTRUMENTATION



FIRE PROTECTION



FUEL PIPING SYSTEMS



ABBREVIATIONS

ABBY	FULL NAME	ABBY	FULL NAME
AC	AIR CONDITIONER	L/S	LITRES PER SECOND
AF	AIR FILTER	LAV	LAVATORY
AFF	ABOVE FINISHED FLOOR	MAX	MAXIMUM
AL	ALUMINUM	MIN	MINIMUM
AS	AIR SYSTEM	MUA	MAKE-UP AIR
B	BOILER	NOM	NOMINAL
BDD	BACKDRAFT DAMPER	O/A	OUTSIDE AIR
BMS	BUILDING MANAGEMENT SYSTEM	OB	OPPOSED BLADE DAMPER
BOD	BOTTOM OF DUCT	PHC	COIL - PREHEAT
BTUH	BRITISH THERMAL UNIT	R/A	RETURN AIR
CC	COIL - COOLING	RD	DRAIN - ROOF AREA
CFM	CUBIC FEET PER MINUTE	RELIA	RELIEF AIR
CH	CHILLER	RF	FAN - RETURN AIR
CHGLYR	CHILLED GLYCOL RETURN	RHC	COIL - REHEAT
CHGLYS	CHILLED GLYCOL SUPPLY	RTU	ROOF TOP UNIT
CHWR	CHILLED WATER RETURN	RWL	RAIN WATER LEADER
CHWS	CHILLED WATER SUPPLY	S/A	SUPPLY AIR
COMP	AIR COMPRESSOR	SC	SPRAYED COIL
CR	CONDENSATE RECEIVER	SF	FAN - SUPPLY AIR
CT	COOLING TOWER	SK	SINK
CU	CONDENSING UNIT	SL	SILENCER
CUH	CABINET UNIT HEATER	SP	STATIC PRESSURE
CWR	CONDENSER WATER RETURN	UR	URINAL
CWS	CONDENSER WATER SUPPLY	WC	WATER CLOSET
DC	DRY COOLER		
DCW	DOMESTIC COLD WATER		
DF	DRINKING FOUNTAIN		
DFU	DUCT FURNACE		
FLA	FULL LOAD AMPS		
FU	FURNACE		
GC	COIL - GLYCOL		
GNC	GENERAL CONTRACTOR		
GPM	GALLONS PER MINUTE		
HB	HOSEBIBB		
HBDR	HUB DRAIN		
HC	COIL - HEATING		
HE	HEAT EXCHANGER		
HP	HORSEPOWER		
HUM	HUMIDIFIER		
ID	INSIDE DIMENSION		
JS	JANITOR'S SINK		

DRAWING LIST

DWG	NAME
M0.01	LEGEND & DRAWING LIST
M2.01	FOUNDATION PLAN
M2.02	PIPING PLAN
M2.03	VENTILATION PLAN
M2.04	ROOF PLAN
M3.01	LARGE SCALE PLANS AND SECTIONS
M6.01	SCHEDULES AND DETAILS

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2	ISSUED FOR 90% REVIEW	2019-03-22	
1	ISSUED FOR 60% REVIEW	2019-02-19	
no.	description	date	checked
	revisions		

DIALOG Consultant

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checked by GK date

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2019-05-03 PERMIT #P10020

consultant job no 01255E0800

AECOM Prime Consultant

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gac architecture

Edmonton

prime consultant job no

drawing title

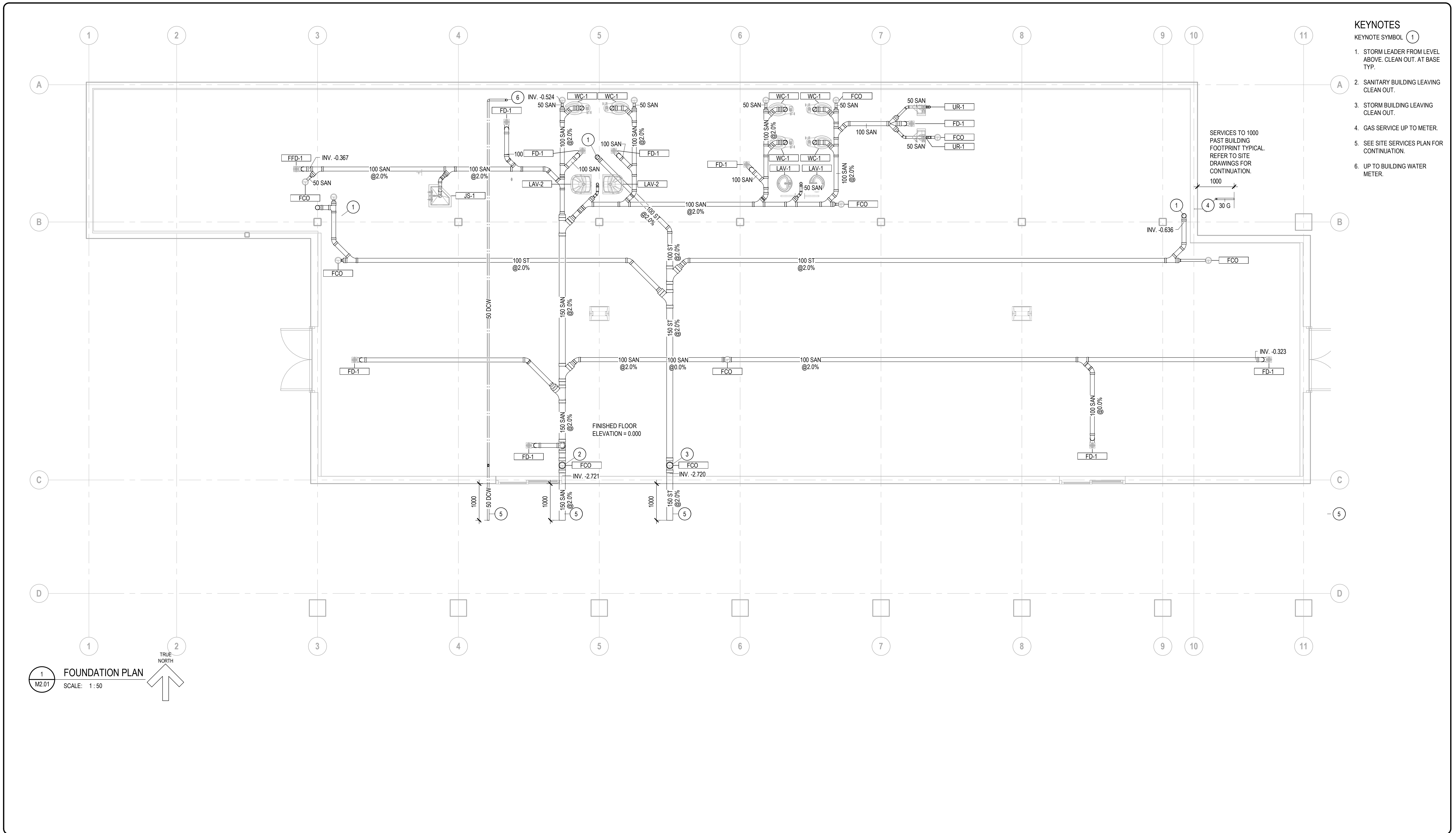
MILLWOODS TRANSIT CENTER
LEGEND & DRAWING LIST

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VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 M0.01

REV No SHT



- KEYNOTES**
KEYNOTE SYMBOL (1)
1. STORM LEADER FROM LEVEL ABOVE. CLEAN OUT. AT BASE TYP.
 2. SANITARY BUILDING LEAVING CLEAN OUT.
 3. STORM BUILDING LEAVING CLEAN OUT.
 4. GAS SERVICE UP TO METER.
 5. SEE SITE SERVICES PLAN FOR CONTINUATION.
 6. UP TO BUILDING WATER METER.

1 FOUNDATION PLAN
SCALE: 1:50
TRUE NORTH

no.	description	date	checked
3	ISSUED FOR BID	2019-05-03	
2	ISSUED FOR 90% REVIEW	2019-03-22	
1	ISSUED FOR 60% REVIEW	2019-02-19	
no.	description	date	checked
	revisions		

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GK

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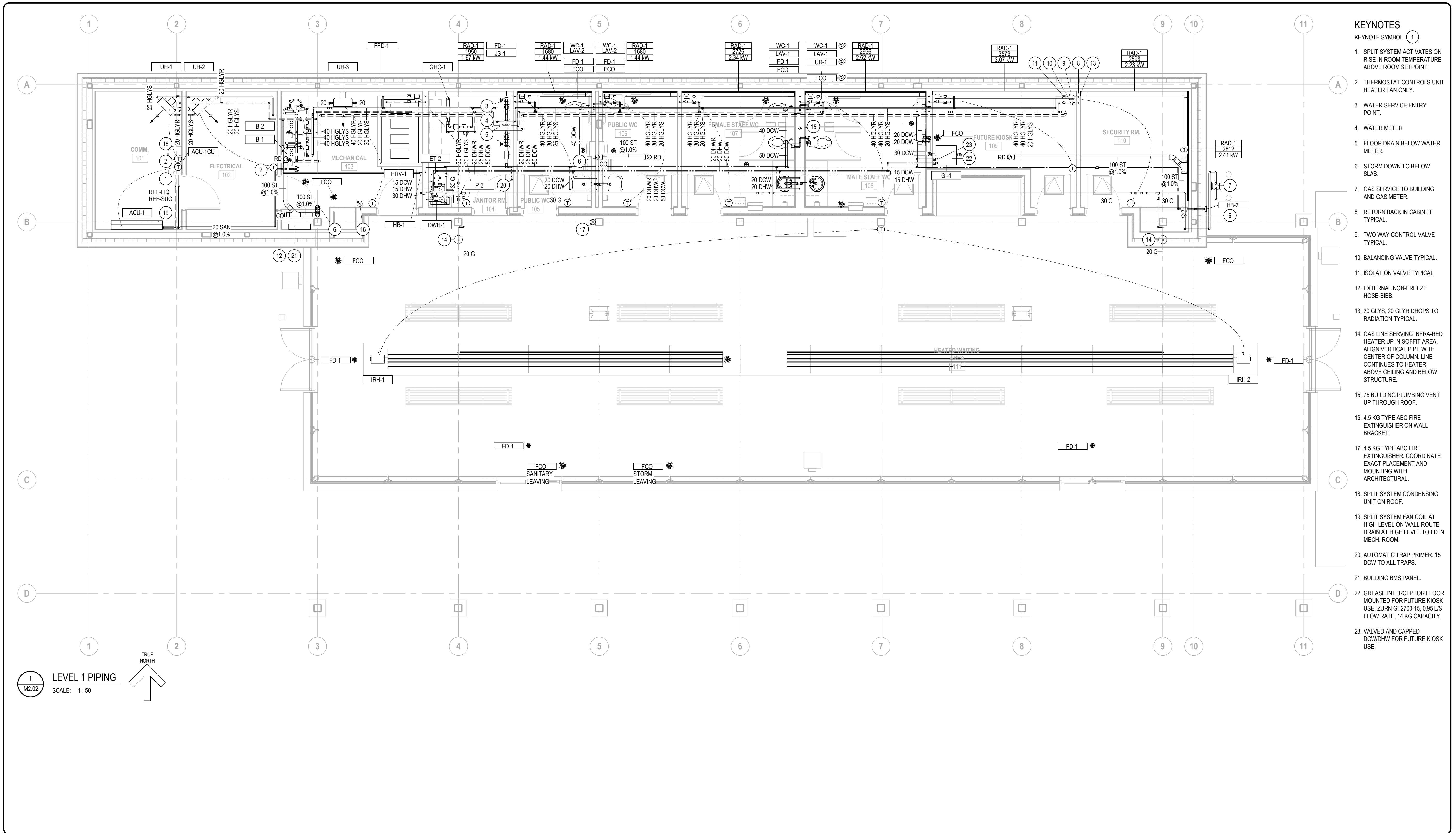
drawing title
**MILLWOODS TRANSIT CENTER
FOUNDATION PLAN**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no.
MWTC 191 M2.01

REV No
SHT 04/12/16

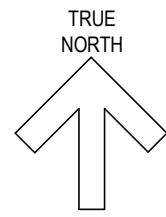
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KEYNOTES

- 1. SPLIT SYSTEM ACTIVATES ON RISE IN ROOM TEMPERATURE ABOVE ROOM SETPOINT.
- 2. THERMOSTAT CONTROLS UNIT HEATER FAN ONLY.
- 3. WATER SERVICE ENTRY POINT.
- 4. WATER METER.
- 5. FLOOR DRAIN BELOW WATER METER.
- 6. STORM DOWN TO BELOW SLAB.
- 7. GAS SERVICE TO BUILDING AND GAS METER.
- 8. RETURN BACK IN CABINET TYPICAL.
- 9. TWO WAY CONTROL VALVE TYPICAL.
- 10. BALANCING VALVE TYPICAL.
- 11. ISOLATION VALVE TYPICAL.
- 12. EXTERNAL NON-FREEZE HOSE-BIBB.
- 13. 20 GLYS, 20 GLYR DROPS TO RADIATION TYPICAL.
- 14. GAS LINE SERVING INFRA-RED HEATER UP IN SOFFIT AREA. ALIGN VERTICAL PIPE WITH CENTER OF COLUMN. LINE CONTINUES TO HEATER ABOVE CEILING AND BELOW STRUCTURE.
- 15. 75 BUILDING PLUMBING VENT UP THROUGH ROOF.
- 16. 4.5 KG TYPE ABC FIRE EXTINGUISHER ON WALL BRACKET.
- 17. 4.5 KG TYPE ABC FIRE EXTINGUISHER. COORDINATE EXACT PLACEMENT AND MOUNTING WITH ARCHITECTURAL.
- 18. SPLIT SYSTEM CONDENSING UNIT ON ROOF.
- 19. SPLIT SYSTEM FAN COIL AT HIGH LEVEL ON WALL ROUTE DRAIN AT HIGH LEVEL TO FD IN MECH. ROOM.
- 20. AUTOMATIC TRAP PRIMER. 15 DCW TO ALL TRAPS.
- 21. BUILDING BMS PANEL.
- 22. GREASE INTERCEPTOR FLOOR MOUNTED FOR FUTURE KIOSK USE. ZURN GT2700-15, 0.95 L/S FLOW RATE, 14 KG CAPACITY.
- 23. VALVED AND CAPPED DCW/DHW FOR FUTURE KIOSK USE.

1 LEVEL 1 PIPING
M2.02
SCALE: 1:50



3	ISSUED FOR BID	2019-05-03	
2	ISSUED FOR 90% REVIEW	2019-03-22	
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PIPING PLAN

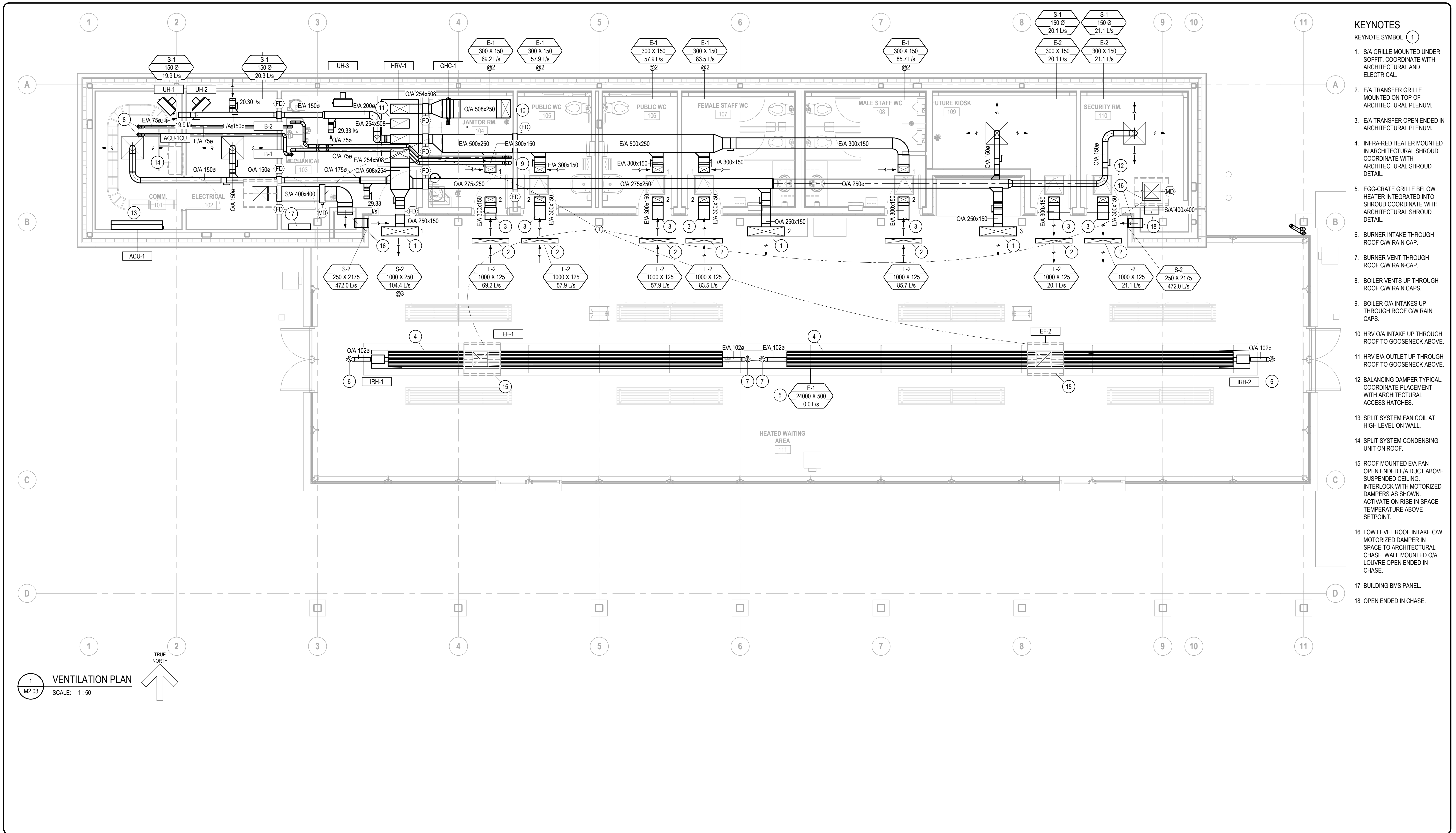
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MILLWOODS TRANSIT CENTER
PIPING PLAN

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

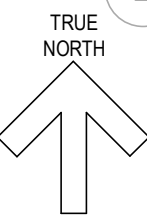
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KEYNOTES

- KEYNOTE SYMBOL ①
1. S/A GRILLE MOUNTED UNDER SOFFIT. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL.
 2. E/A TRANSFER GRILLE MOUNTED ON TOP OF ARCHITECTURAL PLENUM.
 3. E/A TRANSFER OPEN ENDED IN ARCHITECTURAL PLENUM.
 4. INFRA-RED HEATER MOUNTED IN ARCHITECTURAL SHROUD COORDINATE WITH ARCHITECTURAL SHROUD DETAIL.
 5. EGG-CRATE GRILLE BELOW HEATER INTEGRATED INTO SHROUD COORDINATE WITH ARCHITECTURAL SHROUD DETAIL.
 6. BURNER INTAKE THROUGH ROOF C/W RAIN-CAP.
 7. BURNER VENT THROUGH ROOF C/W RAIN-CAP.
 8. BOILER VENTS UP THROUGH ROOF C/W RAIN CAPS.
 9. BOILER O/A INTAKES UP THROUGH ROOF C/W RAIN CAPS.
 10. HRV O/A INTAKE UP THROUGH ROOF TO GOOSENECK ABOVE.
 11. HRV E/A OUTLET UP THROUGH ROOF TO GOOSENECK ABOVE.
 12. BALANCING DAMPER TYPICAL. COORDINATE PLACEMENT WITH ARCHITECTURAL ACCESS HATCHES.
 13. SPLIT SYSTEM FAN COIL AT HIGH LEVEL ON WALL.
 14. SPLIT SYSTEM CONDENSING UNIT ON ROOF.
 15. ROOF MOUNTED E/A FAN OPEN ENDED E/A DUCT ABOVE SUSPENDED CEILING. INTERLOCK WITH MOTORIZED DAMPERS AS SHOWN. ACTIVATE ON RISE IN SPACE TEMPERATURE ABOVE SETPOINT.
 16. LOW LEVEL ROOF INTAKE C/W MOTORIZED DAMPER IN SPACE TO ARCHITECTURAL CHASE. WALL MOUNTED O/A LOUVRE OPEN ENDED IN CHASE.
 17. BUILDING BMS PANEL.
 18. OPEN ENDED IN CHASE.

① VENTILATION PLAN
M2.03
SCALE: 1:50



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**MILLWOODS TRANSIT CENTER
VENTILATION PLAN**

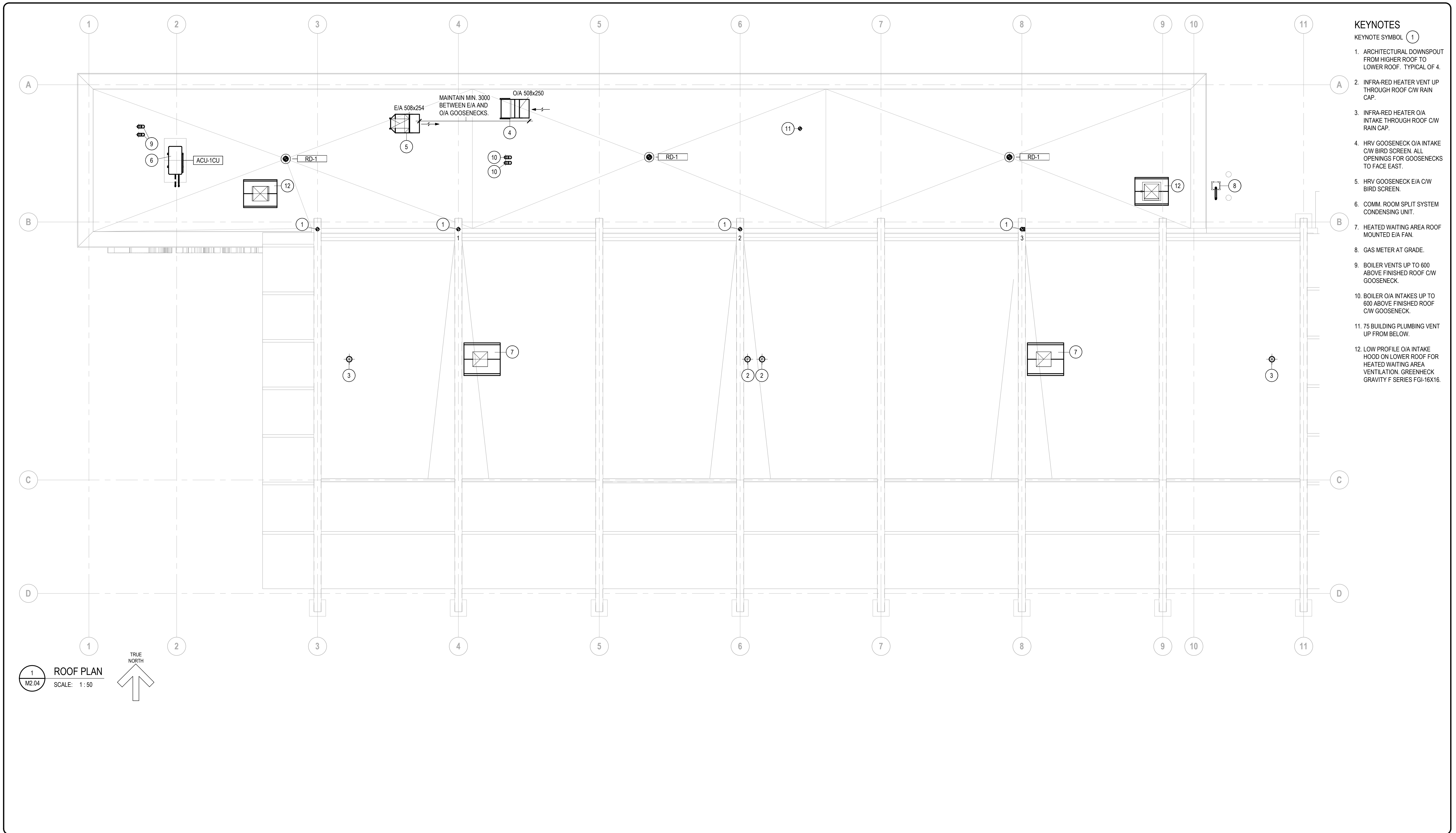
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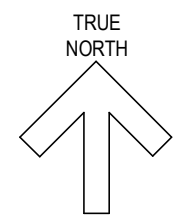
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VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN



- KEYNOTES**
- KEYNOTE SYMBOL (1)
1. ARCHITECTURAL DOWNSPOUT FROM HIGHER ROOF TO LOWER ROOF. TYPICAL OF 4.
 2. INFRA-RED HEATER VENT UP THROUGH ROOF C/W RAIN CAP.
 3. INFRA-RED HEATER O/A INTAKE THROUGH ROOF C/W RAIN CAP.
 4. HRV GOOSENECK O/A INTAKE THROUGH ROOF C/W BIRD SCREEN. ALL OPENINGS FOR GOOSENECKS TO FACE EAST.
 5. HRV GOOSENECK E/A C/W BIRD SCREEN.
 6. COMM. ROOM SPLIT SYSTEM CONDENSING UNIT.
 7. HEATED WAITING AREA ROOF MOUNTED E/A FAN.
 8. GAS METER AT GRADE.
 9. BOILER VENTS UP TO 600 ABOVE FINISHED ROOF C/W GOOSENECK.
 10. BOILER O/A INTAKES UP TO 600 ABOVE FINISHED ROOF C/W GOOSENECK.
 11. 75 BUILDING PLUMBING VENT UP FROM BELOW.
 12. LOW PROFILE O/A INTAKE HOOD ON LOWER ROOF FOR HEATED WAITING AREA VENTILATION. GREENHECK GRAVITY F SERIES FGI-16X16.

1 ROOF PLAN
M2.04
SCALE: 1:50



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MILLWOODS TRANSIT CENTER
ROOF PLAN

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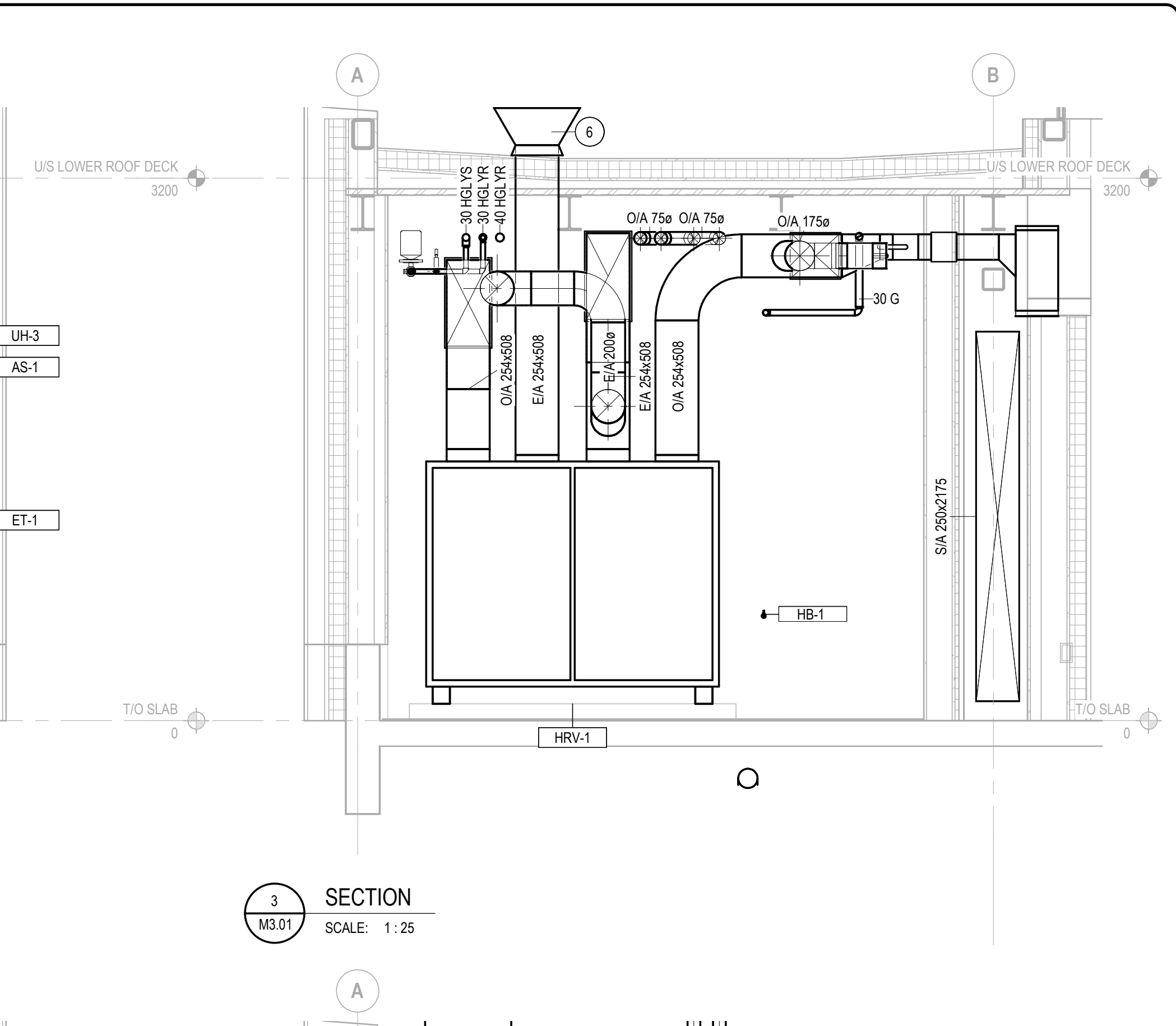
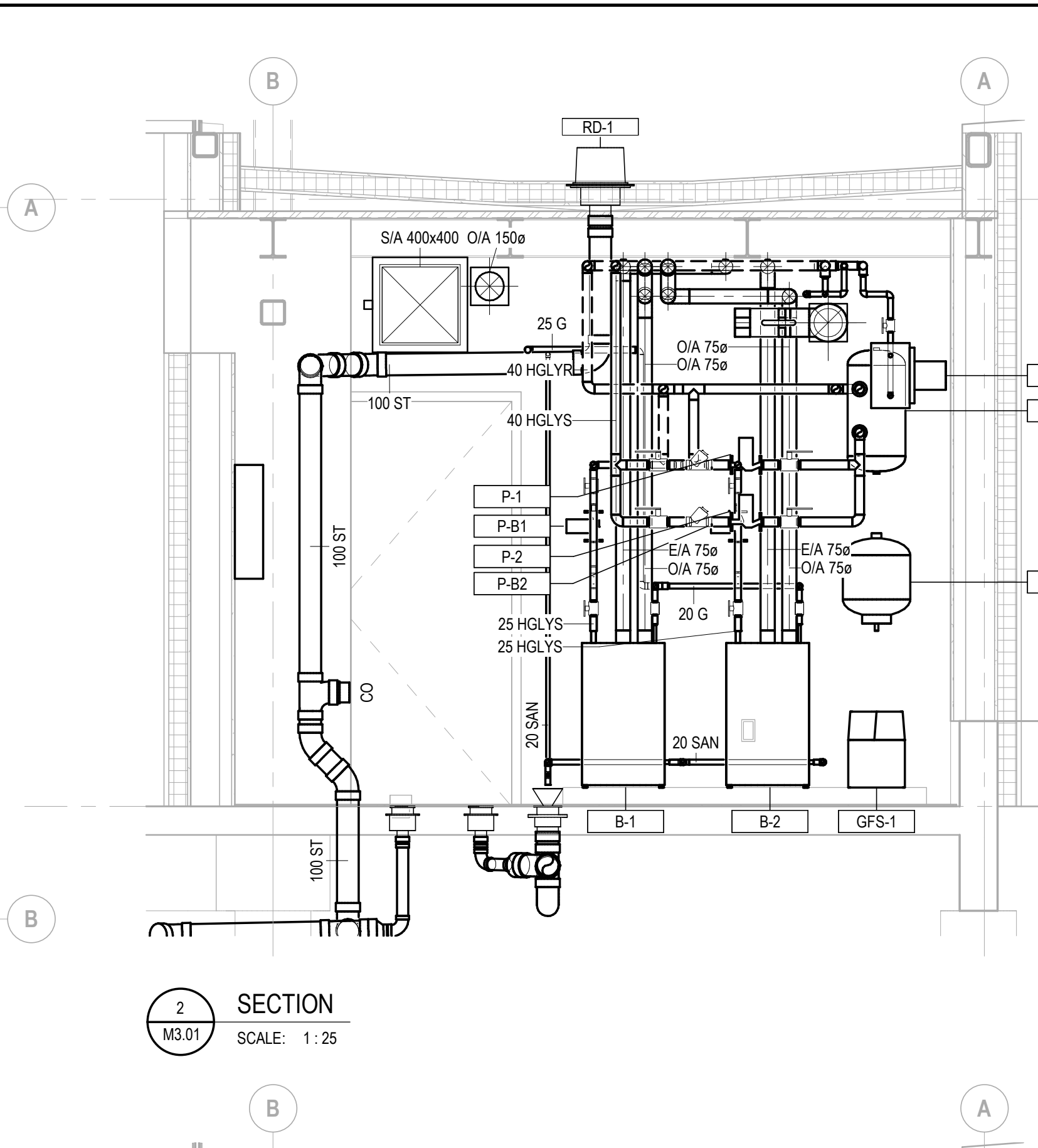
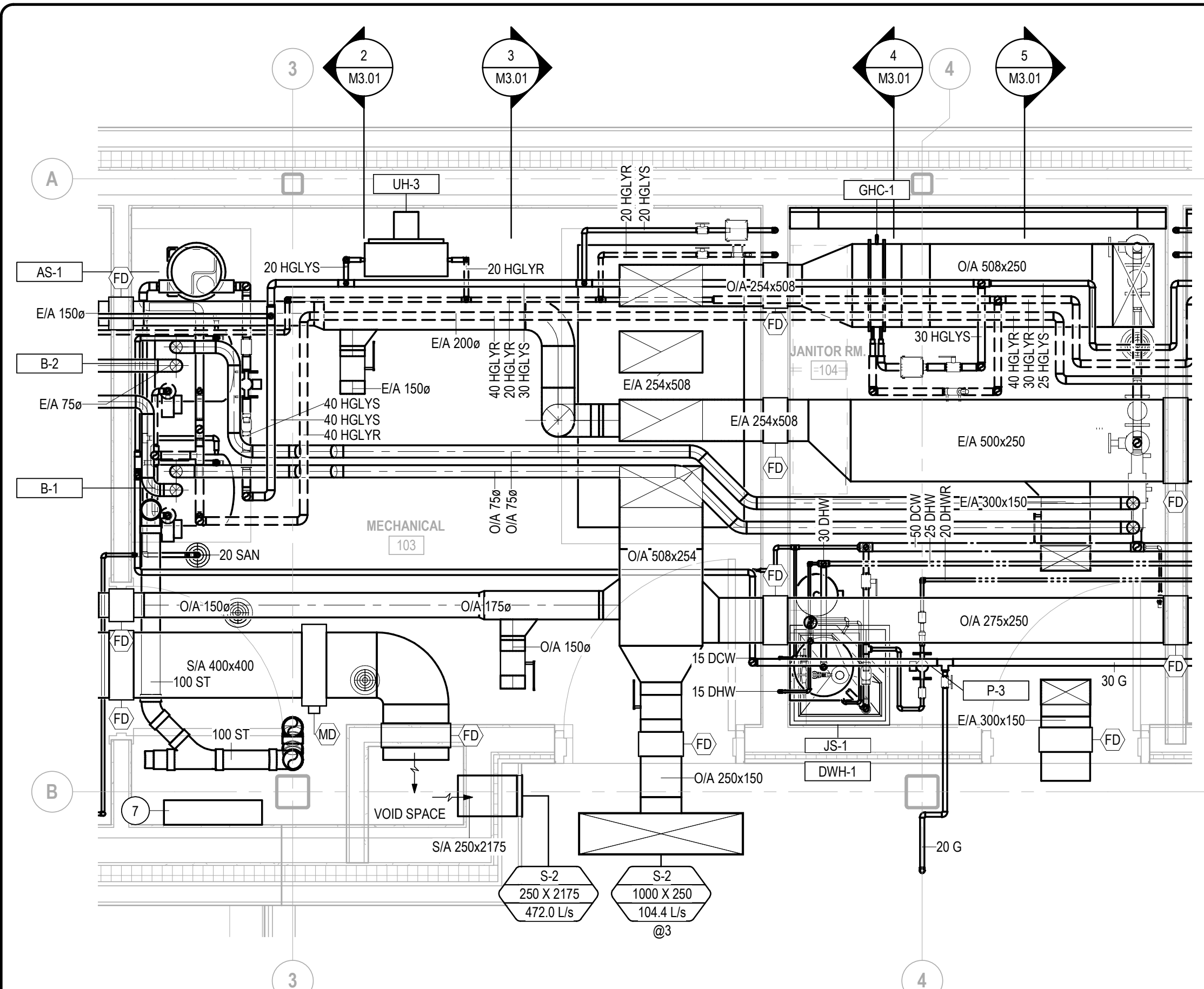
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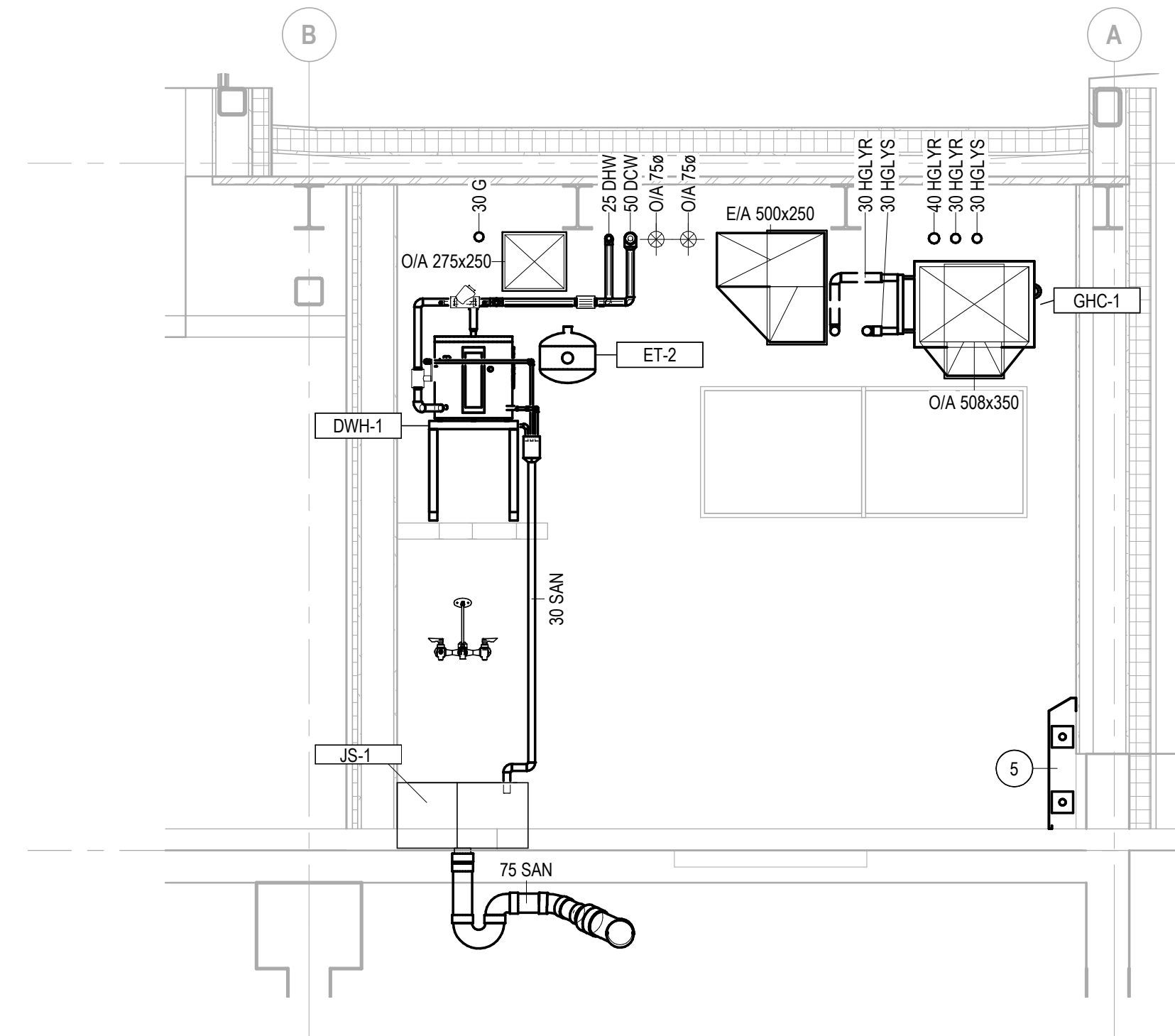
VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN



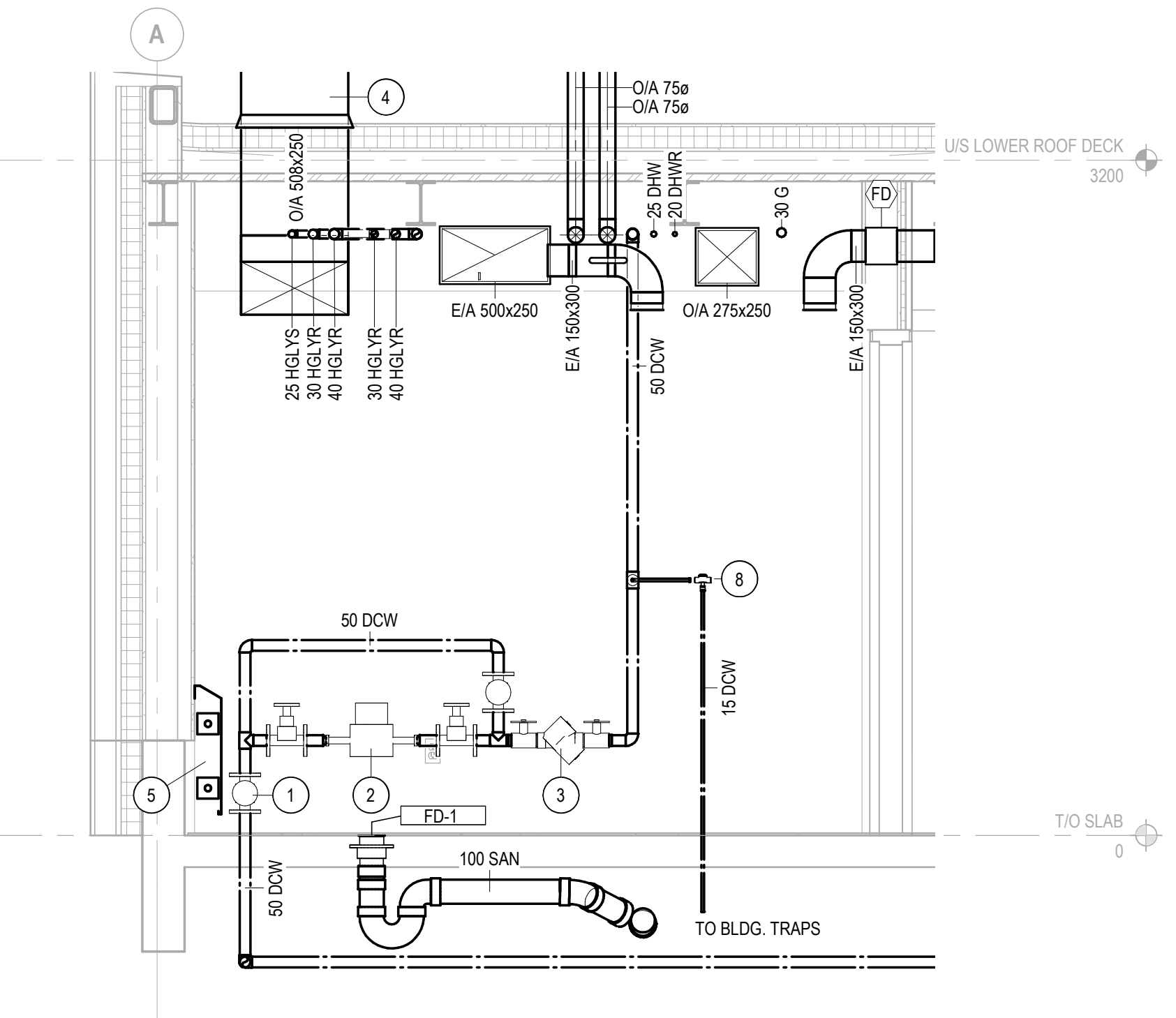
1 MECHANICAL AND JANITOR'S ROOMS
SCALE: 1:25

2 SECTION
SCALE: 1:25

3 SECTION
SCALE: 1:25



4 SECTION
SCALE: 1:25



5 SECTION
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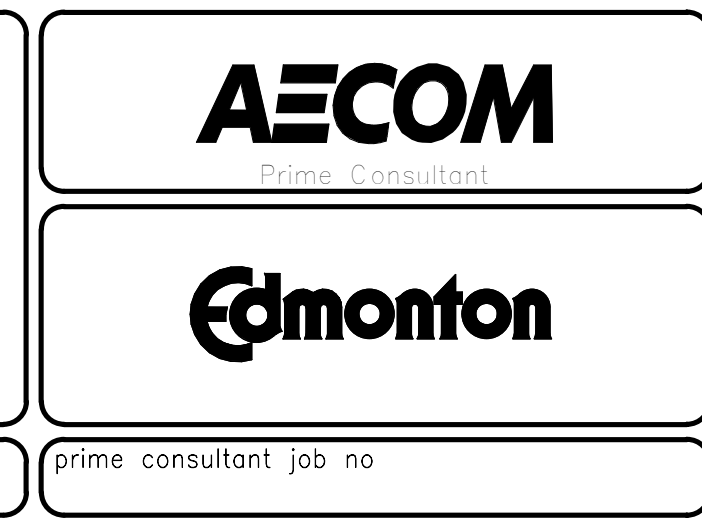
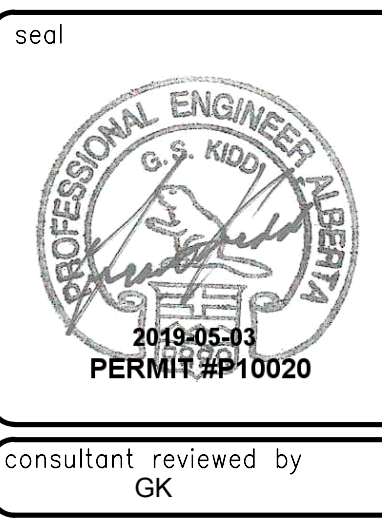
KEYNOTES

- KEYNOTE SYMBOL 1
- DOMESTIC WATER SERVICE MASTER SHUT-OFF VALVE.
 - DOMESTIC WATER METER.
 - BACKFLOW PREVENTER.
 - HRV O/A INTAKE GOOSENECK.
 - PERIMETER RADIATION.
 - HRV E/A GOOSENECK.
 - BMS PANEL.
 - TRAP PRIMER.

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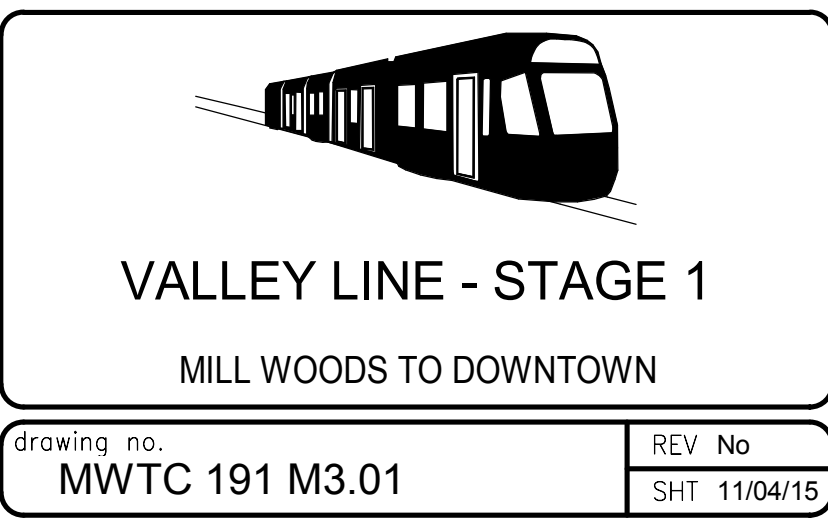
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drawing title
**MILLWOODS TRANSIT CENTER
LARGE SCALE PLANS AND SECTIONS**

drawing no.
MWTC 191 M3.01

REV No
SHT 11/04/15



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PLUMBING FIXTURE SCHEDULE										
TAG	FIXTURE	MANUFACTURER	MODEL	NOTES						
BF-1	BOTTLE FILL STATION	T&S	B-1210	STAINLESS STEEL BOTTLE FILL STATION MOUNTED ADJACENT TO LAVATORY FAUCET. COLD WATER CONNECTION ONLY.						
FCO	FLOOR CLEANOUT	WATTS	CO-202-RC	EPOXY COATED CAST IRON FLOOR CLEANOUT WITH ROUND NICKEL BRONZE TOP AND NO HUB CONNECTION.						
FD-1	FLOOR DRAIN	WATTS	FD-104-A5	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE, CLAMPING COLLAR, ROUND HEEL PROOF NICKEL BRONZE STRAINER AND NO HUB OUTLET.						
FFD-1	FUNNEL FLOOR DRAIN	WATTS	FD-104-EG	EPOXY COATED CAST IRON FLOOR DRAIN WITH ANCHOR FLANGE MEMBRANE CLAMP, NICKEL BRONZE STRAINER, OVAL CAST IRON FUNNEL AND NO HUB OUTLET.						
HB-1	HOSE BIB - INTERNAL - WALL MOUNTED	WATTS	SC8	COCK FAUCET WITH SEPARATE VACUUM BREAKER, CAST BRASS CONSTRUCTION WITH HANDWHEEL.						
HB-2	HOSE BIBB - EXTERNAL WALL MOUNTED.	ZURN	Z1320	ECOLOTRON CERAMIC DISC WALL HYDRANT ENCASED NON-FREEZE, ANTI-SIPHON, AUTOMATIC DRAINING.						
JS-1	SINK - JANITOR - CORNER	FIAT	TSBC-6010	NEO-CORNER SERVICE BASIN, STAINLESS STEEL CAPS ON ALL CURBS, TERRAZZO CONSTRUCTION, 305 DEEP, STAINLESS STEEL DRAIN ASSEMBLY AND STRAINER PLATE, 600X600, FIAT 830-AA WALL MOUNT SERVICE SINK FAUCET WITH TOP BRACE, VACUUM BREAKER, PAIL HOOK.						
LAV-1	LAVATORY	FRANKE	OV1619-6	STAINLESS STEEL OVAL COUNTER TOP VANITY SINGLE FAUCET HOLE. LAVATORY FAUCET - TOTO TEL 105-D10ET. FLEX SUPPLIES, WHEEL HANDLE STOPS. THERMOSTATIC MIXING VALVE.						
LAV-2	LAVATORY - WALL MOUNT - VITREOUS CHINA	AMERICAN STANDARD	MURRO	VITREOUS CHINA WALL HUNG BARRIER FREE BASIN C/W KNEE CONTACT GUARD, JAY R. SMITH 0700-Z CARRIER, OPEN GRID STRAINER, OFF-SET P-TRAP, FLEX SUPPLIES WITH WHEEL HANDLE STOPS, TOTO TEL 105-D10ET, THERMOSTIC MIXING VALVE.						
RD-1	100 ROOF DRAIN	WATTS	RD-104	EPOXY COATED CAST IRON ROOF DRAIN WITH FLASHING CLAMP WITH INTEGRAL GRAVEL STOP, SELF LOCKING POLYETHYLENE DOME AND NO HUB STANDARD OUTLET.						
TP-1	AUTOMATIC TRAP PRIMER	Jay R. Smith Mfg. Co.	2699	AUTOMATIC TRAP PRIMER, CAST BRONZE, LEAD FREE.						
UR-1	URINAL - WALL MOUNTED - FLUSH VALVE	AMERICAN STANDARD	WASHBROOK FLOWISE	WALL MOUNTED VITREOUS CHINA URINAL C/W HANGER, TOTO TEU1LN12#CP FLUSH VALVE SELF GENERATING AUTOMATIC INFRARED SENSOR.						
WC-1	WATER CLOSET - FLOOR MOUNTED - FLUSH VALVE	AMERICAN STANDARD	RIGHT WIDTH - RIGHT HEIGHT FLOWISE	#3461.01.020, RIGHT HEIGHT ELONGATED, 419 MM HIGH TOILET VITREOUS CHINA, FLOOR MOUNTED, OPERATES IN THE RANGE OF 4.2 L TO 6 L PER FLUSH, SIPHON JET FLUSH ACTION, CONDENSATE CHANNEL, CENTOCO #500STSC0.001, HEAVY DUTY TOILET SEAT, SOLID PLASTIC, OPEN FRONT LESS COVER, TOTO TEL LA32#CP, CHROME PLATED, EXPOSED FLUSHMETER FOR TOP SPUD TOILET, 4.2 L FLUSH OR 6 L FLUSH FACTORY SET FLOW, PROVIDE FLOOR FLANGE, WITH ALL BRASS BOLTS AND WITH RUBBER GASKET.						

BOILER SCHEDULE												
TAG	MANUFACTURER	MODEL	SERVICE	HEATING INPUT (KW)	HEATING OUTPUT (KW)	MEDIUM	FLOW (L/S)	EFT (°C)	LFT (°C)	P.D. (KPA)	MOTOR (KW)	NOTES
B-1	PEERLESS	PF-110	GLYCOL HEAT	32.23	30.00	50% PPG	0.73	48.80	60.00	1.37	1.20	BUILT IN CONDENSATE NEUTRALIZER SYSTEM WITH FLOAT SWITCH PROTECTION. STAINLESS STEEL BURNER AND HEAT EXCHANGER. DURAVENT 3PPS-VKL, 75X125 POLY PRO VERTICAL TERMINATION KIT C/W BLACK CAP WILB2
B-2	PEERLESS	PF-110	GLYCOL HEAT	32.23	30.00	50% PPG	0.73	48.80	60.00	1.37	1.20	BUILT IN CONDENSATE NEUTRALIZER SYSTEM WITH FLOAT SWITCH PROTECTION. STAINLESS STEEL BURNER AND HEAT EXCHANGER. DURAVENT 3PPS-VKL, 75X125 POLY PRO VERTICAL TERMINATION KIT C/W BLACK CAP WILB2

EXPANSION TANK SCHEDULE												
TAG	MANUFACTURER	MODEL	SERVICE	LOCATION	ET-TYPE	MEDIUM	VOLUME (L)	FLUID MIN TANK ACCEPTANCE (L)	PHYSICAL DIAMETER (MM)	HEIGHT (MM)	NPT FITTING	NOTES
ET-1	BELL AND GOSSETT	D40V	GLYCOL HEAT	MECHANICAL ROOM	BLADDER	50% PPG	30.30	9.10	356	564	20	PRE-CHARGED TO 83 KPA.
ET-2	AMTROL	ST-5-C	DOMESTIC HOT WATER	JANITOR'S ROOM	DIAPHRAGM	WATER	7.57	3.40	254	235	20	PRE-CHARGED TO 82 KPA, SUITABLE FOR POTABLE WATER

GLYCOL FILL TANK SCHEDULE										
MARK	MANUFACTURER	MODEL	LOCATION	WORKING FLUID	TOTAL VOLUME (L)	ELECTRICAL (V/PH/PHZ)	NOTES			
GFS-1	AXIOM	MF200	MECHANICAL ROOM	50% PPG	25.00 L	115/60/1	COMPATIBLE WITH GLYCOL SOLUTIONS OF UP TO 50% CONCENTRATION. PUMP SHALL BE CAPABLE OF RUNNING DRY WITHOUT DAMAGE.			

DOMESTIC WATER HEATER SCHEDULE										
TAG	MANUFACTURER	MODEL	SERVICE	HEATING INPUT (KW)	HEATING OUTPUT (KW)	RECOVERY (L/HR)	STORAGE (L)	GASELECTRIC	NOTES	
DWH-1	A O SMITH	M-1-6UESS	DOMESTIC HOT WATER	1.50	1.50	26	23.00	ELECTRIC	C/W WALL MOUNTING BRACKET AND DRIP PAN, ROUTE PRV TO JANITOR'S SINK.	

PUMP SCHEDULE												
TAG	MANUFACTURER	MODEL	SERVICE	FLUID FLOW (L/S)	MEDIUM	HEAD (KPA)	MOTOR (KW)	MOTOR (RPM)	VOLTAGE (V)	PHASE	FREQUENCY	NOTES
P-1	TACO	0013	GLYCOL HEATING	1.15	50% PPG	33.0	0.12	1750	115	1	60 Hz	MOUNT IN LINE ABOVE BOILER ACCESSIBLE FROM THE FRONT
P-2	TACO	0013	GLYCOL HEATING	1.15	50% PPG	33.0	0.12	1750	115	1	60 Hz	MOUNT IN LINE ABOVE BOILER ACCESSIBLE FROM THE FRONT
P-3	TACO	006-IGST4	DOMESTIC HOT WATER RECIRC.	0.13	WATER	10.1	0.02	3250	115	1	60 Hz	MOUNT ADJACENT TO DOMESTIC WATER HEATER.
P-B1	TACO	0013	BOILER CIRCULATION	0.73	50% PPG	51.0	0.12	1750	115	1	60 Hz	MOUNT IN LINE ABOVE BOILER ACCESSIBLE FROM THE FRONT
P-B2	TACO	0013	BOILER CIRCULATION	0.73	50% PPG	51.0	0.12	1750	115	1	60 Hz	MOUNT IN LINE ABOVE BOILER ACCESSIBLE FROM THE FRONT

AIR CONDITIONING SPLIT SYSTEM SCHEDULE										
TAG	MANUFACTURER	MODEL	AREA SERVED	MEDIUM	AIR (L/S)	CAPACITY (kW)	SEER	ELECTRICAL VOLT/PH	MCA	NOTES
ACU-1	MTSUBISHI	PKA-A18HA4	101 COMMUNICATIONS	R-410A	206	5	15.3	208/1/60	1	FAN COIL, PROVIDE WALL T-STAT, WHITE FINISH, CONDENSATE PUMP OR 20 TYPE L COPPER DRAIN TO FUNNEL DRAIN, SINGLE POINT ELECT. CONNECT.
ACU-1CU	MTSUBISHI	PUY-A18NHA	101 COMMUNICATIONS	R-410A	566	5	0	208/1/60	13	CONDENSING UNIT, ROOF MTD. ON CONCRETE SLEEPERS, ULTRA-LOW AMBIENT KIT.

FIN RADIATION SCHEDULE											
TAG	MANUFACTURER	MODEL	HEIGHT	WIDTH	ROWS	OUTPUT (KW/M)	FLUID TYPE	EFT (C)	LFT (C)	LENGTH	NOTES
RAD-1	ENGINEERED AIR	WF-1A	610	127	2	0.86	50% PP	60	48.8	NOTED	STANDARD WHITE COLOUR, HEATING OUTPUT DERATED FOR TEMP. AND FLUID TYPE, TWO ROWS ON 305 CENTERS

DIFFUSER AND GRILLE SCHEDULE										
MARK	MANUFACTURER	MODEL	MOUNTING	COLOUR	NOTES					
E-1	E.H. PRICE	85 SERIES	CEILING	WHITE	LOUVERED RETURN GRILLE, BLADES PARALLEL TO LONG DIMENSION 45 DEG. FROM HORIZONTAL, COORDINATE FINAL COLOUR WITH ARCHITECTURAL.					
E-2	E.H. PRICE	530 SERIES	DUCT AND SOFFIT	COORDINATE	LOUVERED R/A GRILLE, BLADES PARALLEL TO LONG DIMENSION 45 DEG. FROM HORIZONTAL, COORDINATE FINAL COLOUR WITH ARCHITECTURAL.					
S-1	E.H. PRICE	SCD	DUCT AND CEILING	WHITE	SQUARE PLAQUE S/A DIFFUSER WHITE COLOR					
S-2	E.H. PRICE	530 SERIES	WALL	WHITE	LOUVERED S/A GRILLE, BLADES PARALLEL TO LONG DIMENSION 45 DEG. FROM HORIZONTAL, COORDINATE FINAL COLOUR WITH ARCHITECTURAL.					

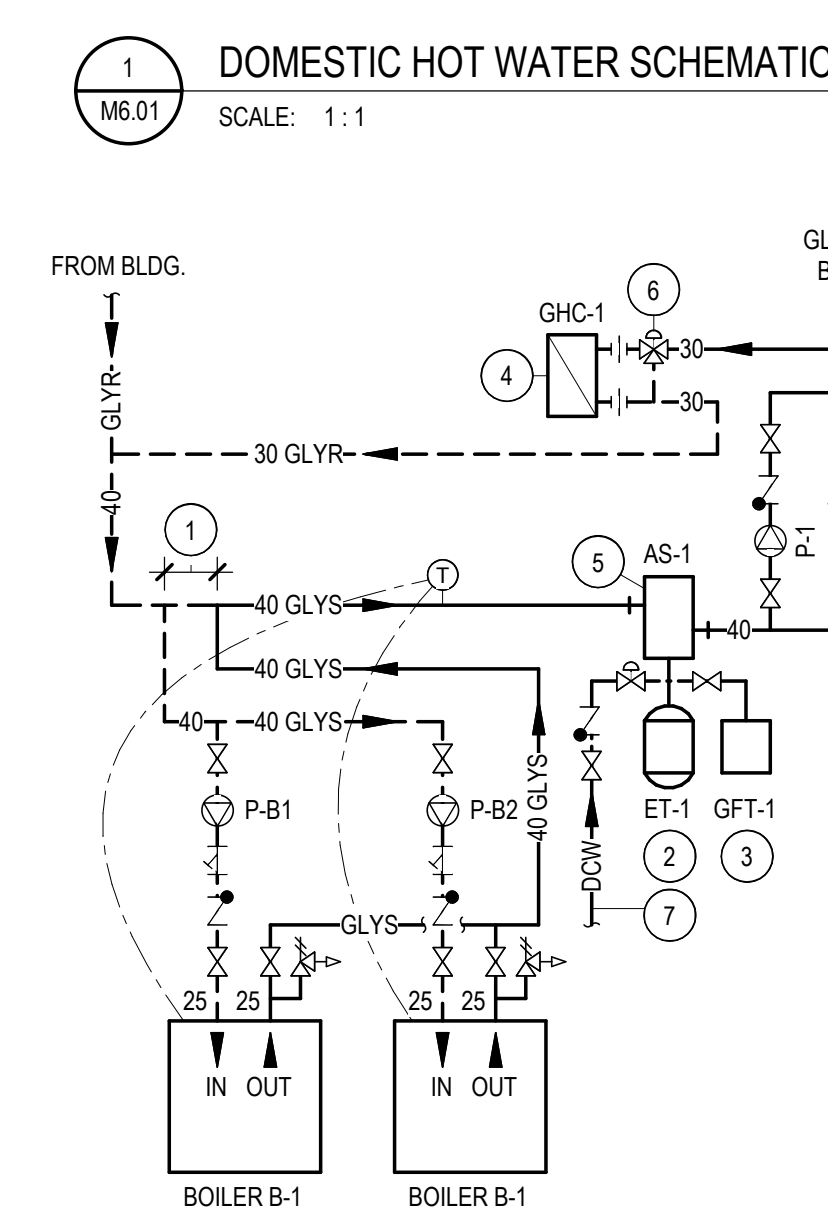
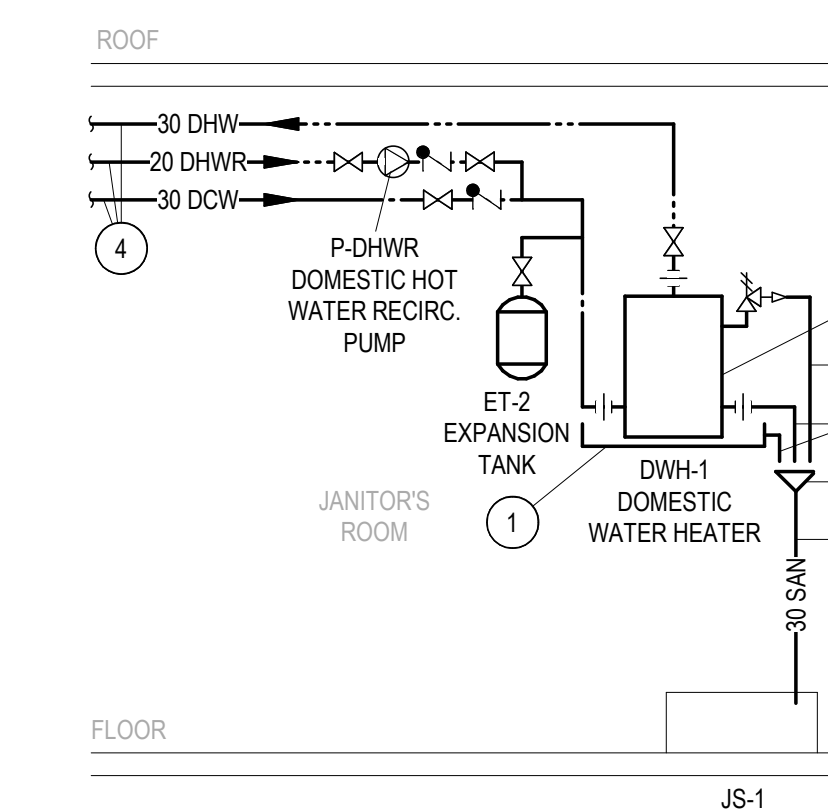
HEAT RECOVERY VENTILATOR SCHEDULE										
TAG	MANUFACTURER	MODEL	SERVICE	AIR FLOW (L/S)	STATIC PRESSURE (PA)	MOTOR POWER (KW)	VOLTS/PH/Hz	NOTES		
HRV-1	SYSTEMAIR	TOPVEX TR1800-208-3-CAV-ERV	E/A O/A FOR BLDG.	424.0	315.0	0.336	208/3/60	CORE - POLYMERIZED PAPER, 20 DRAIN FITTING, ECM MOTORS, FAN SPEED CONTROL - CONSTANT SPEED, REFER TO MECH. RM. DWG. FOR ACCESS DOOR SIDE.		

COIL SCHEDULE												
TAG	MANUFACTURER	LOCATION	EAT (°C)	LAT (°C)	AIRFLOW (L/S)	AIR PD (KPa)	EFT (°C)	LFT (°C)	FLUID FLOW RATE (L/S)	HEAT TRANSFERRED (KW)	MEDIUM	NOTES
GHC-1	ENGINEERED AIR	105 JANITOR'S ROOM	-34.00	11.88	425	0.04	60.00	48.80	0.57	22.22	50% PPG	4 ROW COIL

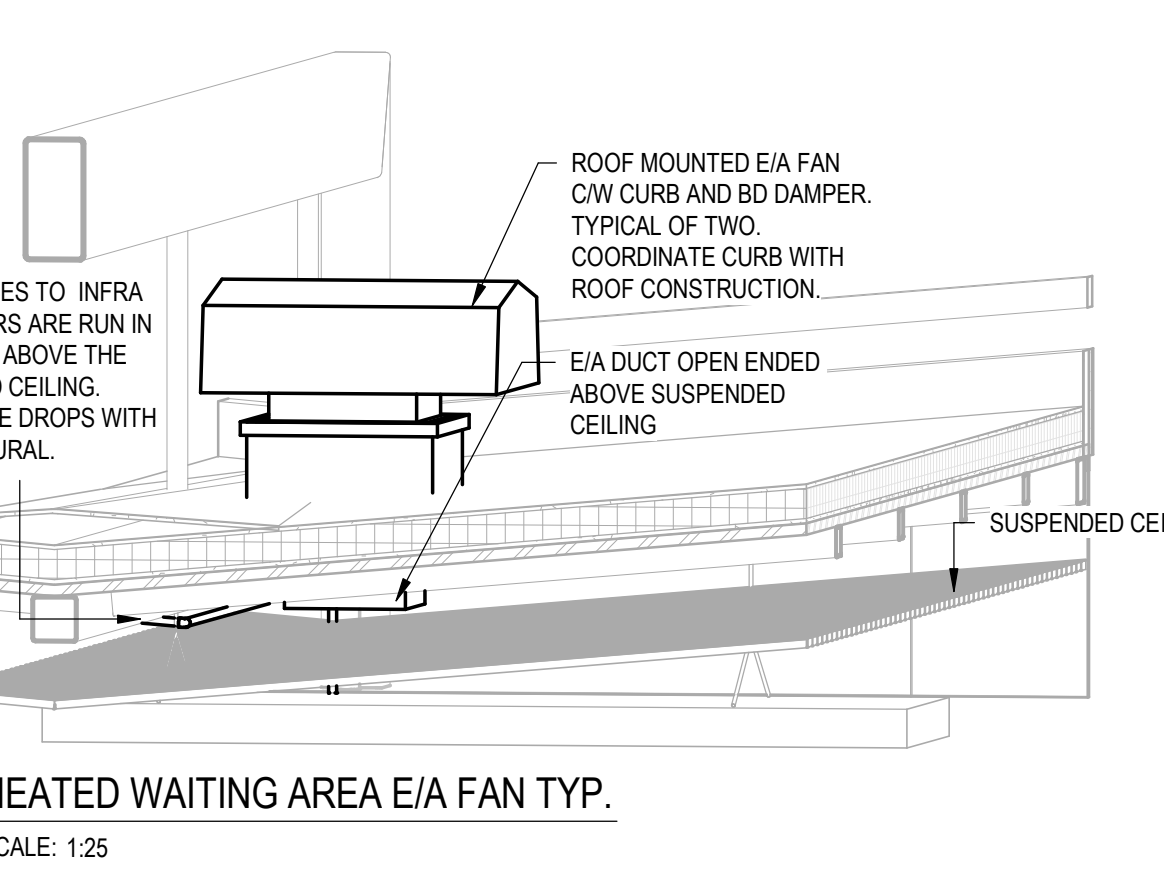
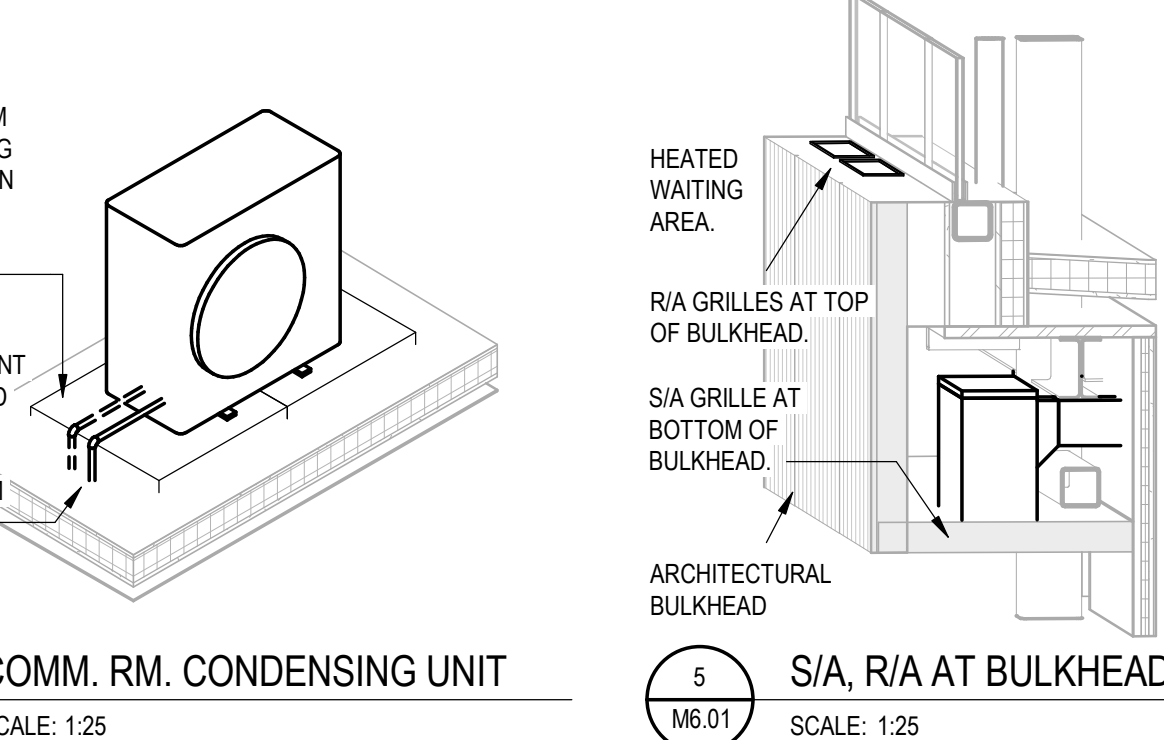
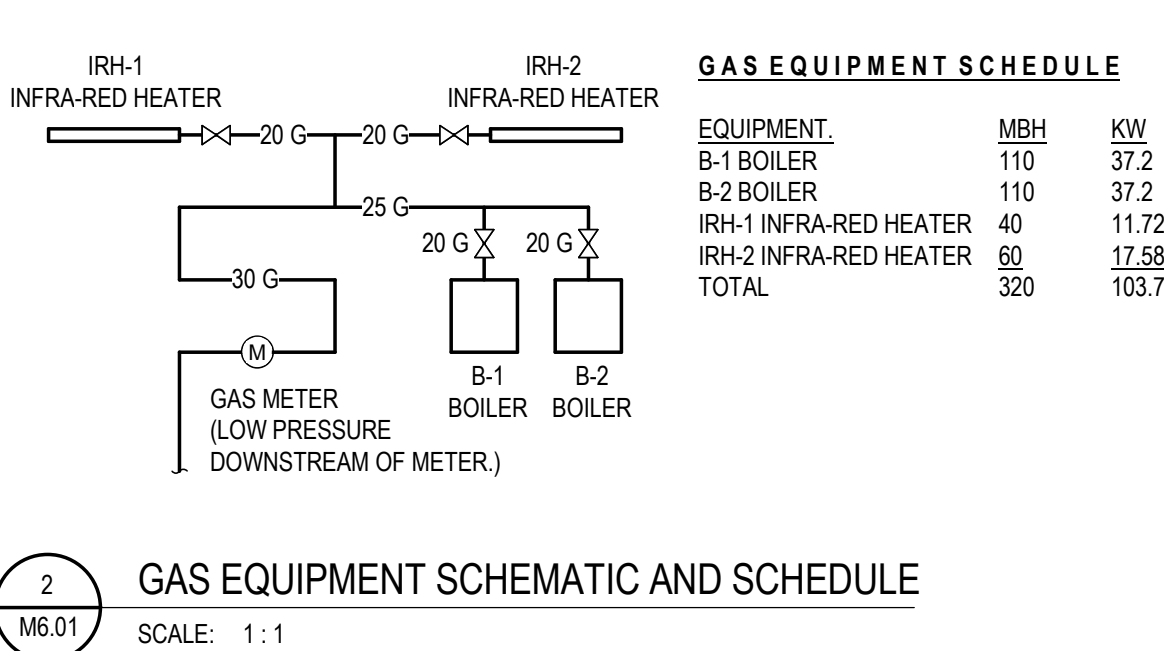
INFRA RED HEATER SCHEDULE										
TAG	MANUFACTURER	MODEL	SERVICE	LENGTH	HEATING INPUT KW	HEATING OUTPUT KW	MOUNT ANGLE	MOUNT HEIGHT	NOTES	
IRH-1	SUPERIOR RADIANT PRODUCTS	LX	HEATED WAITING AREA	9144	11.72	11.72	0.00°	3500	O/A AND E/A THROUGH ROOF C/W RAIN CAP. COORDINATE BURNER WITH ARCHITECTURAL SHROUD.	
IRH-2	SUPERIOR RADIANT PRODUCTS	LX	HEATED WAITING AREA	12192	17.58	17.58	0.00°	3500	O/A AND E/A THROUGH ROOF C/W RAIN CAP. COORDINATE BURNER WITH ARCHITECTURAL SHROUD.	

UNIT HEATER SCHEDULE											
TAG	MANUFACTURER	MODEL	ARRANGEMENT	AIR FLOW (L/S)	OUTPUT (KW)	EFT (°C)	TEMPERATURE DIFFERENCE (°C)	MOTOR (KW)	VOLTS/PH/Hz	RPM	NOTES
UH-1	SIGMA	015H	SUSPENDED AT HIGH LEVEL	189	3.25	60.00	11.20	0.37	120/1/60	1050	LINE VOLTAGE THERMOSTAT
UH-2	SIGMA	015H	SUSPENDED AT HIGH LEVEL	189	3.25	60.00	11.20	0.37	120/1/60	1050	LINE VOLTAGE THERMOSTAT
UH-3	SIGMA	015H	SUSPENDED AT HIGH LEVEL	189	3.25	60.00	11.20	0.37	120/1/60	1050	LINE VOLTAGE THERMOSTAT

EXHAUST FAN SCHEDULE										
TAG	MANUFACTURER	MODEL	SERVICE	AIR FLOW (L/S)	STATIC PRESSURE (PA)	MOTOR POWER (KW)	VOLTS/PH/Hz	NOTES		
EF-1	Greenheck	LB-10-4	111 HEATED WAITING AREA	472.0	93.0	0.186	120/1/60	ACTIVATED BY SPACE SENSOR ON RISE ABOVE SETPOINT. INTERLOCKED WITH MD-1, MD-2		
EF-2	Greenheck	LB-10-4	111 HEATED WAITING AREA	472.0	93.0	0.186	120/1/60	ACTIVATED BY SPACE SENSOR ON RISE ABOVE SETPOINT. INTERLOCKED WITH MD-1, MD-2		



- KEYNOTES**
- GALVANIZED DRAIN PAN BELOW DOMESTIC HOT WATER HEATER.
 - HEATER SITS ON A WALL MOUNTED FRAME PROVIDED BY CONTRACTOR.
 - OPEN WASTE.
 - CONNECT TO SERVICES AS SHOW ON PLANS.
 - INDIRECT DRAIN.
 - PIPE PRV TO OPEN WASTE FITTING.
 - PIPE WASTE FITTING TO JANITOR'S SINK.



no.	description	date	appd.
3	ISSUED FOR BID	2019-05-03	
2	ISSUED FOR 90% REVIEW	2019-03-22	
1	ISSUED FOR 60% REVIEW	2019-02-19	
no.	description	date	checked
	revisions		

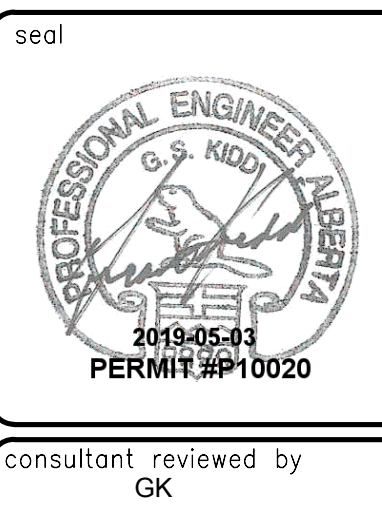
DIALOG Consultant

A1 bar scale AS INDICATED

drawn by JES designed by JES

checked by GK date

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gec architecture

drawing title

MILLWOODS TRANSIT CENTER SCHEDULES AND DETAILS

drawing no. MWTC 191 M6.01

REV No SHT 11/04/15

VALLEY LINE - STAGE 1

MILL WOODS TO DOWNTOWN

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ELECTRICAL LEGEND

- STRIP LIGHTING FIXTURE SURFACE OR PENDANT MOUNTED
- LIGHTING FIXTURE SURFACE WALL MOUNTED
- LINEAR LIGHTING FIXTURE SURFACE MOUNTED
- LINEAR LIGHTING FIXTURE RECESSED MOUNTED
- EMERGENCY BATTERY PACK WALL MOUNTED WITH HEADS AS INDICATED
- REMOTE EMERGENCY LIGHTING DOUBLE HEAD
- STREET/PARKING LOT/SIDEWALK LIGHTING POLE MOUNTED (SINGLE HEAD)
- STREET/PARKING LOT/SIDEWALK LIGHTING POLE MOUNTED (DOUBLE HEAD)
- EXIT LIGHT, CEILING MOUNTED LINE INDICATES FACE OF SIGN
- LIGHTING FIXTURE TYPE (REFER TO LIGHTING FIXTURE SCHEDULE)
- OCCUPANCY SENSOR - CEILING MOUNTED LOW VOLTAGE
- DAYLIGHT SENSOR - CEILING MOUNTED LOW VOLTAGE
- WALL MOUNTED PHOTOCELL
- LOW VOLTAGE SWITCH
- STANDARD 100mm SQUARE JUNCTION BOX (MINIMUM UNLESS OTHERWISE NOTED)
- 20A 120V T-SLOT DUPLEX RECEPTACLE
- 20A 120V T-SLOT 4-PLEX RECEPTACLE
- DIRECT CONNECTION
- MOTOR - SINGLE PHASE
- MOTOR - 3 PHASE WITH NON-FUSIBLE DISCONNECT
- NON-FUSIBLE DISCONNECT
- MOTORIZED DAMPER
- GROUNDING SYSTEM
- WALL MOUNTED GROUNDING BUS BAR
- 120/208V PANEL, SURFACE MOUNTED
- OTHER PANEL AS SPECIFIED, SURFACE MOUNTED
- ELECTRIC DOOR OPERATOR
- ACCESS CONTROL DEVICE (CARD READER)
- HAND SWIPE DEVICE
- DOOR MONITOR SWITCH
- ELECTRIC DOOR STRIKE
- MOTION DETECTOR
- PLYWOOD BACKBOARD
- FLOOR STANDING 4-POST COMMUNICATION RACK
- DATA OUTLET
- TELEPHONE OUTLET, 'X' DENOTES NUMBER OF COMMUNICATIONS CABLES TERMINATING AT OUTLET
- PUBLIC ADDRESS SPEAKER, WALL MOUNTED
- PUBLIC ADDRESS SPEAKER, CEILING MOUNTED
- CLOSED CIRCUIT TELEVISION CAMERA OUTLET
- SECURITY INTERCOM C/W CAMERA

KEYNOTES

011 CONTRACTOR TO INTERCEPT, EXTEND, AND REUSE EXISTING CIRCUITRY FOR NEW LOCATIONS. UTILIZE NEW IN-GROUND PULL BOX C/W DRIVE-OVER-RATED COVER.



TRUE NORTH

2 ELECTRICAL DEMOLITION PLAN
 ED.01 SCALE: 1:500

- CL CEILING MOUNTED
- ED EXISTING TO BE DEMOLISHED
- E EXISTING TO REMAIN
- HD ELECTRIC HAND DRYER
- HK HOUSEKEEPING
- NL NIGHT LIGHT
- PTZ PAN / TILT / ZOOM
- WP WEATHER-PROOF
- 1 KEY NOTE TAG

A	ISSUED FOR TENDER	03-05-19	
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	issue data		
no.	description	date	checked
	revisions		

DIALOG
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A1 bar scale
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 date 2019/05/03

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seal

APEGA Permit P10020
 2019-05-05

consultant job no
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consultant reviewed by
 CB

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 Approver

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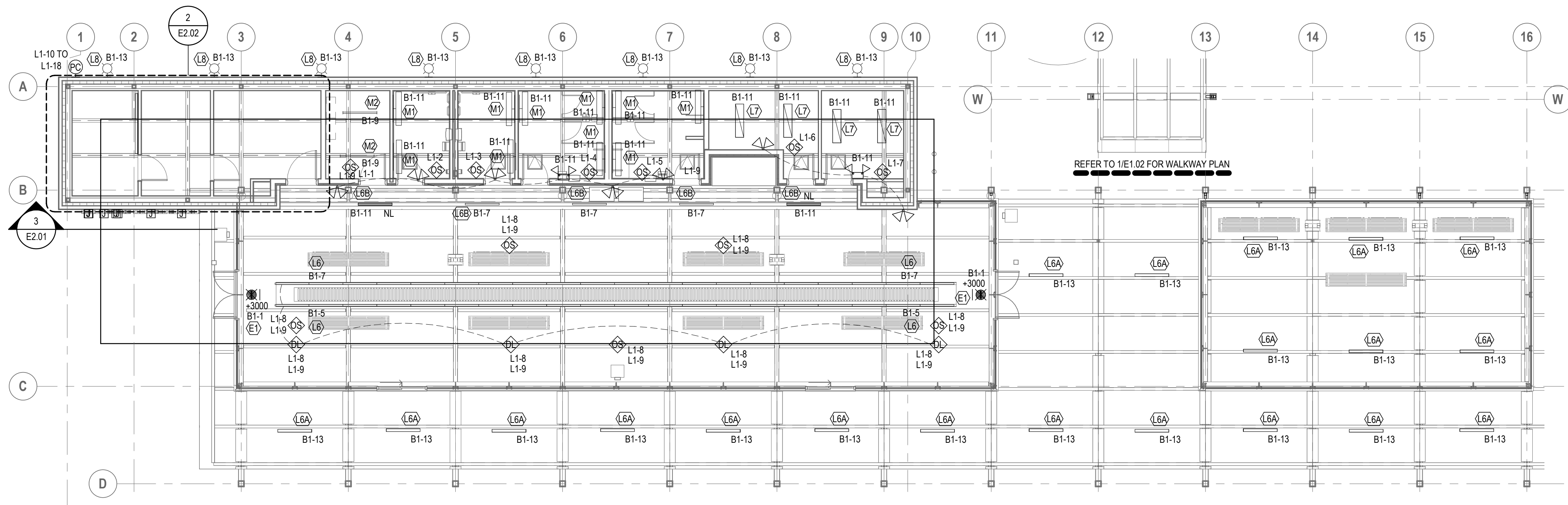
**MILL WOODS TRANSIT CENTRE
 ELECTRICAL DEMOLITION PLAN**

VALLEY LINE - STAGE 1
 MILL WOODS TO DOWNTOWN

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 MWTC 191 E0.01

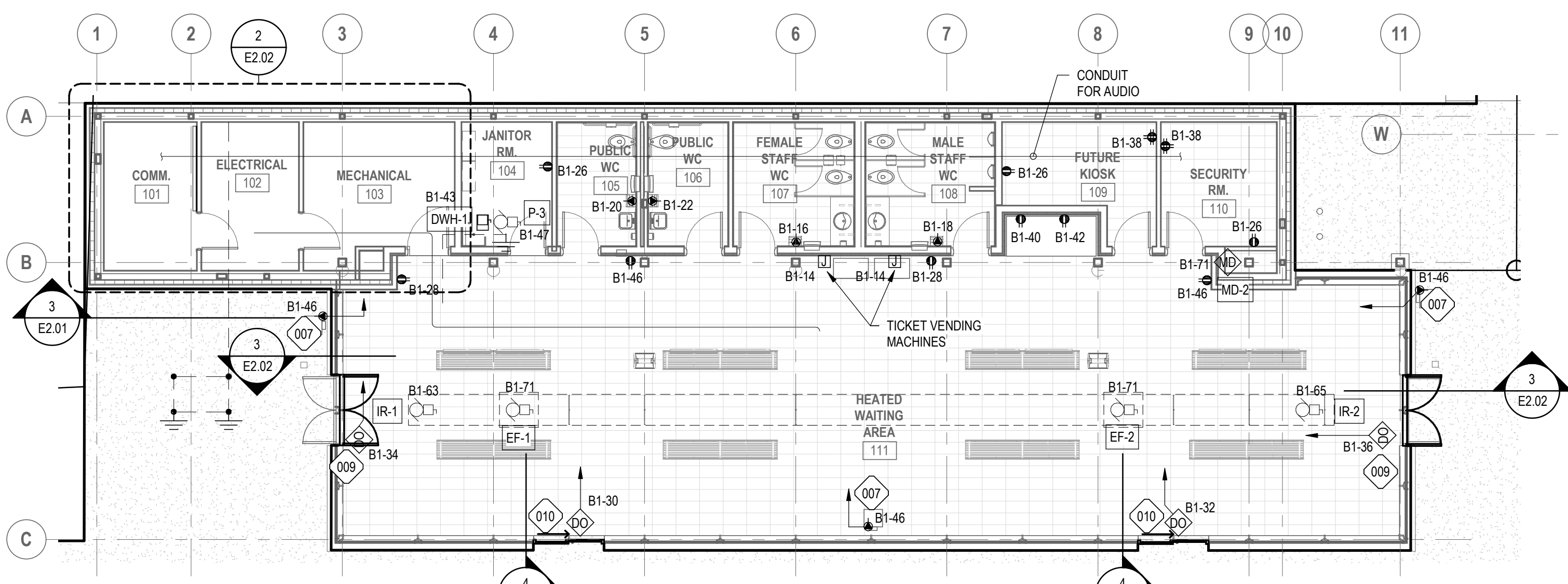
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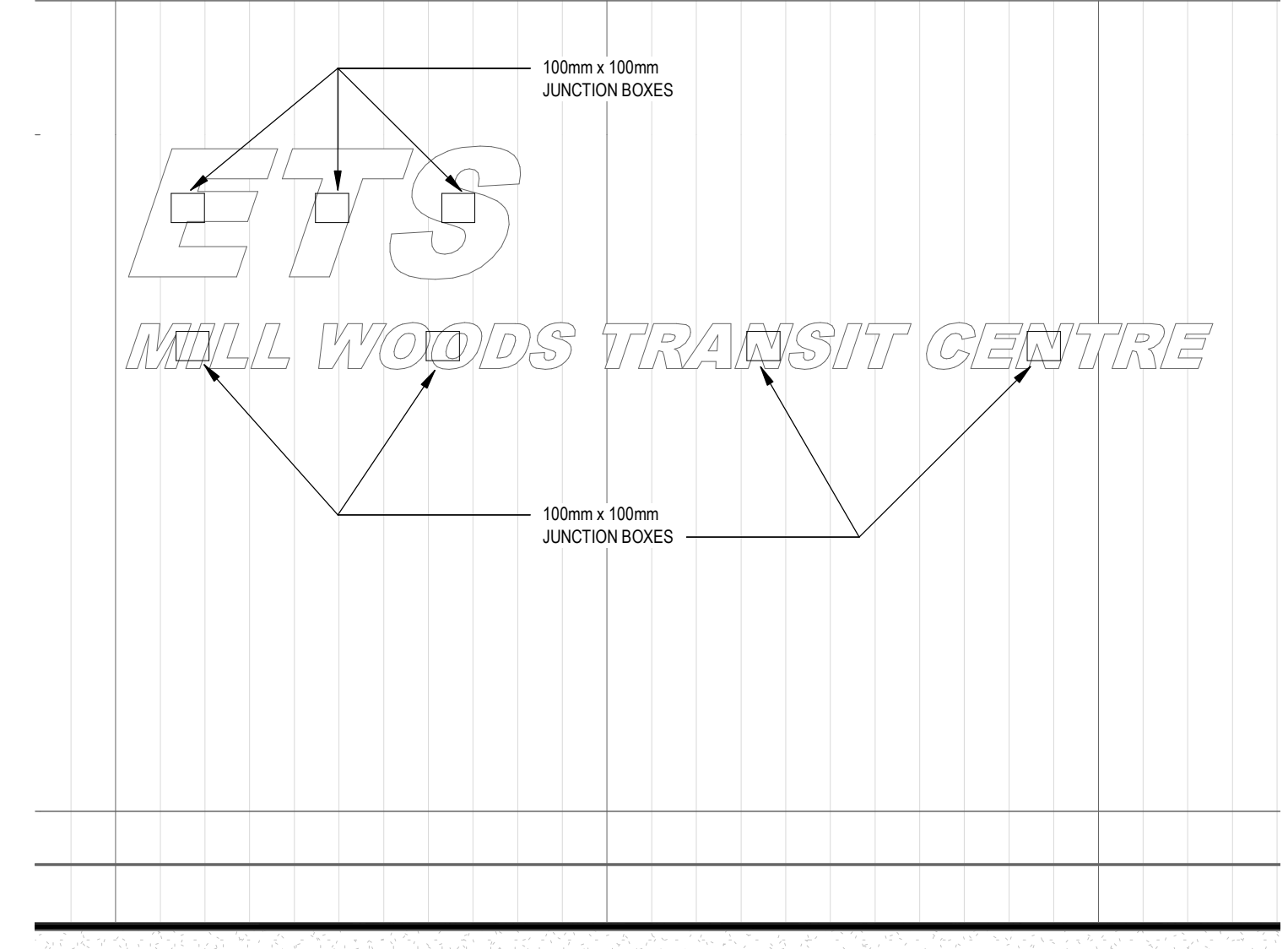


KEYNOTES	
007	STUB UP DIRECTLY INTO CONNECTOR INSIDE PEDESTAL. HOME RUN UNDERNEATH FLOOR TO SOURCE.
009	MOTORIZED DOOR SYSTEM C/W HAND SWIPE ON PEDESTAL. REFER TO 3/E2.02. HOME RUN UNDERNEATH FLOOR TO SOURCE.
010	MOTORIZED SLIDING DOOR SYSTEM C/W HAND SWIPE ON MULLION. REFER TO 4/E2.02. HOME RUN UNDERNEATH FLOOR TO SOURCE.

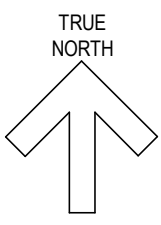
1 LEVEL 1 - LIGHTING PLAN
SCALE: 1:100



2 LEVEL 1 - POWER PLAN
SCALE: 1:100



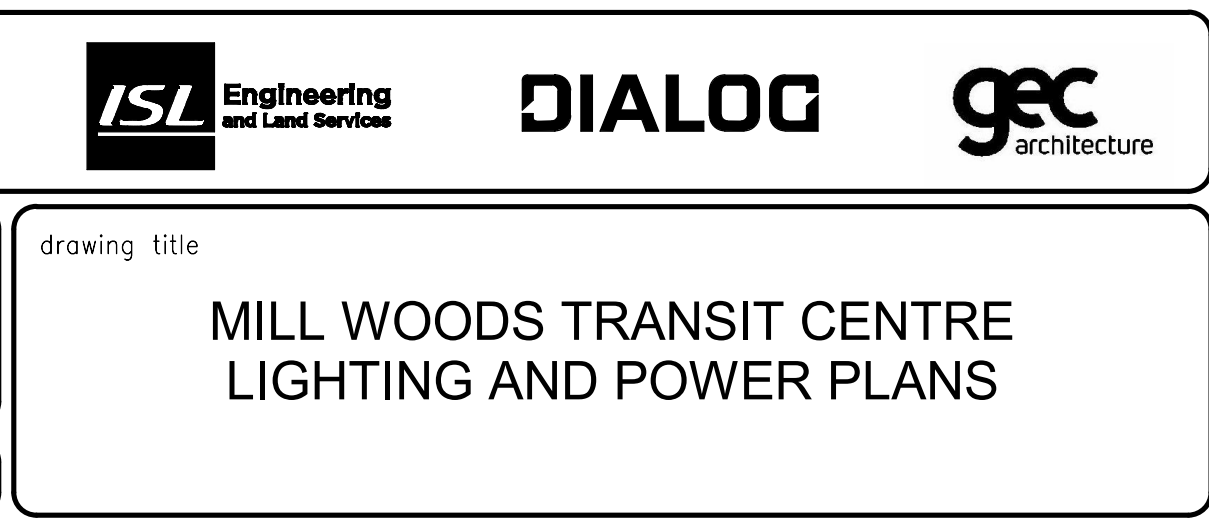
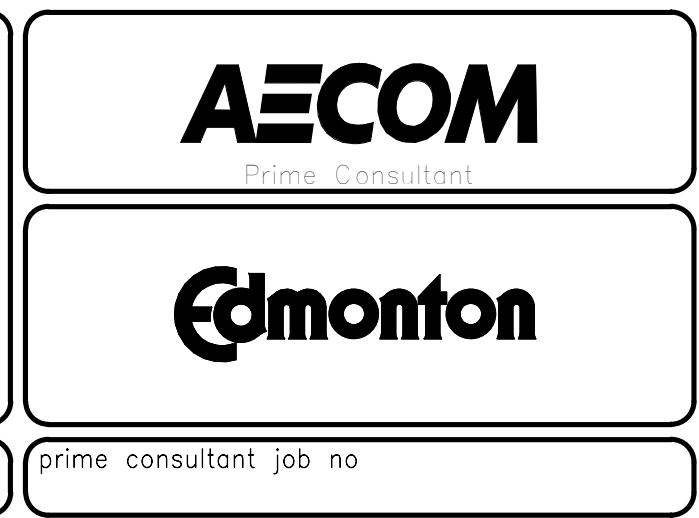
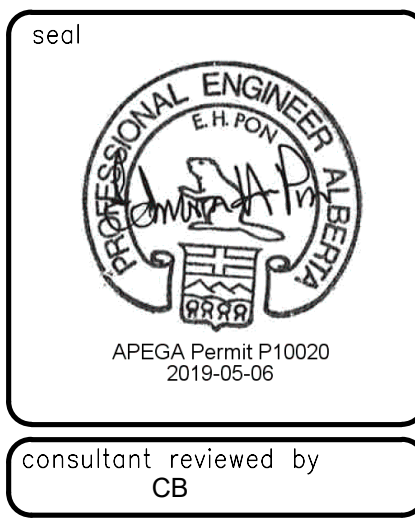
3 SIGNAGE LIGHTING
SCALE: 1:25



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	issue data		
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consultant job no	01255E0800

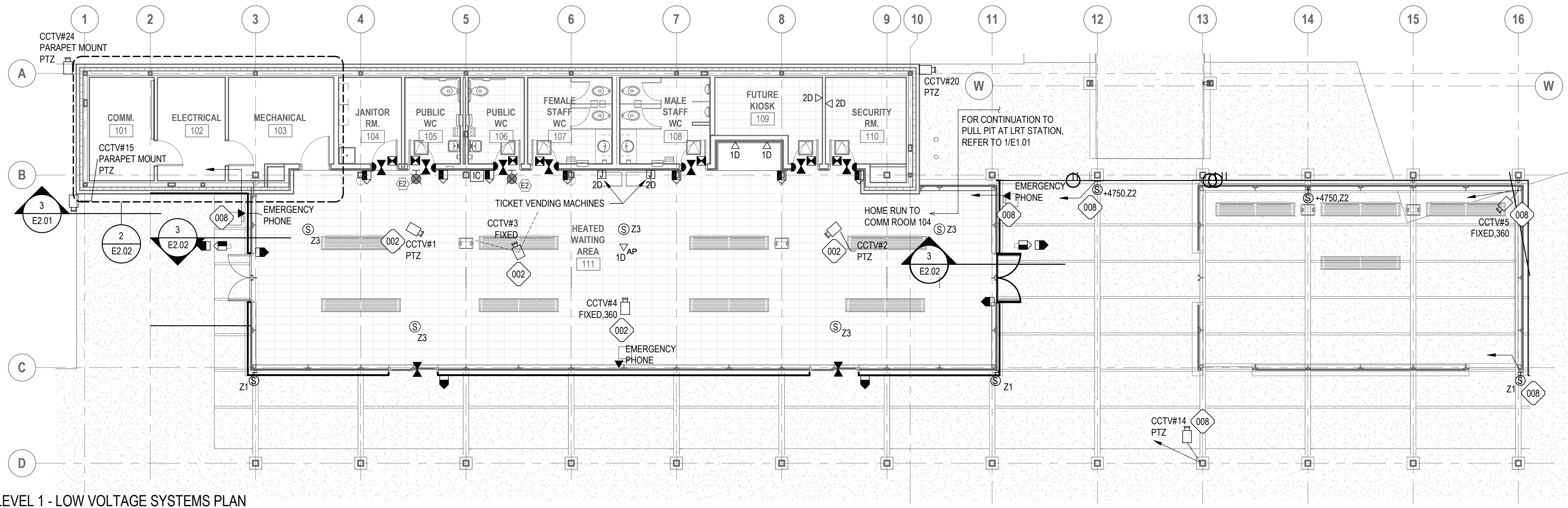


drawing title
**MILL WOODS TRANSIT CENTRE
LIGHTING AND POWER PLANS**

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

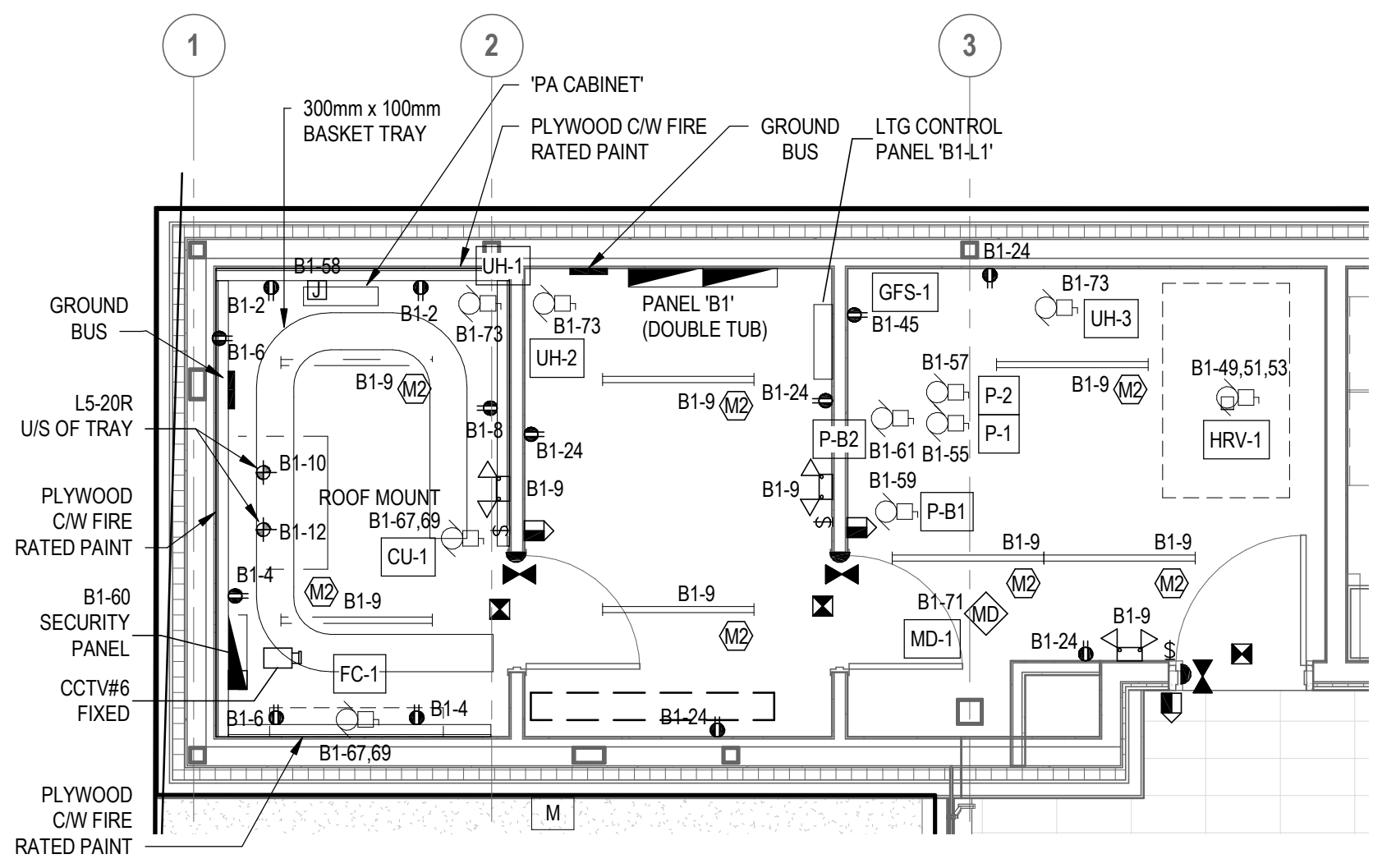
drawing no. MWTC 191 E2.01	REV No SHT
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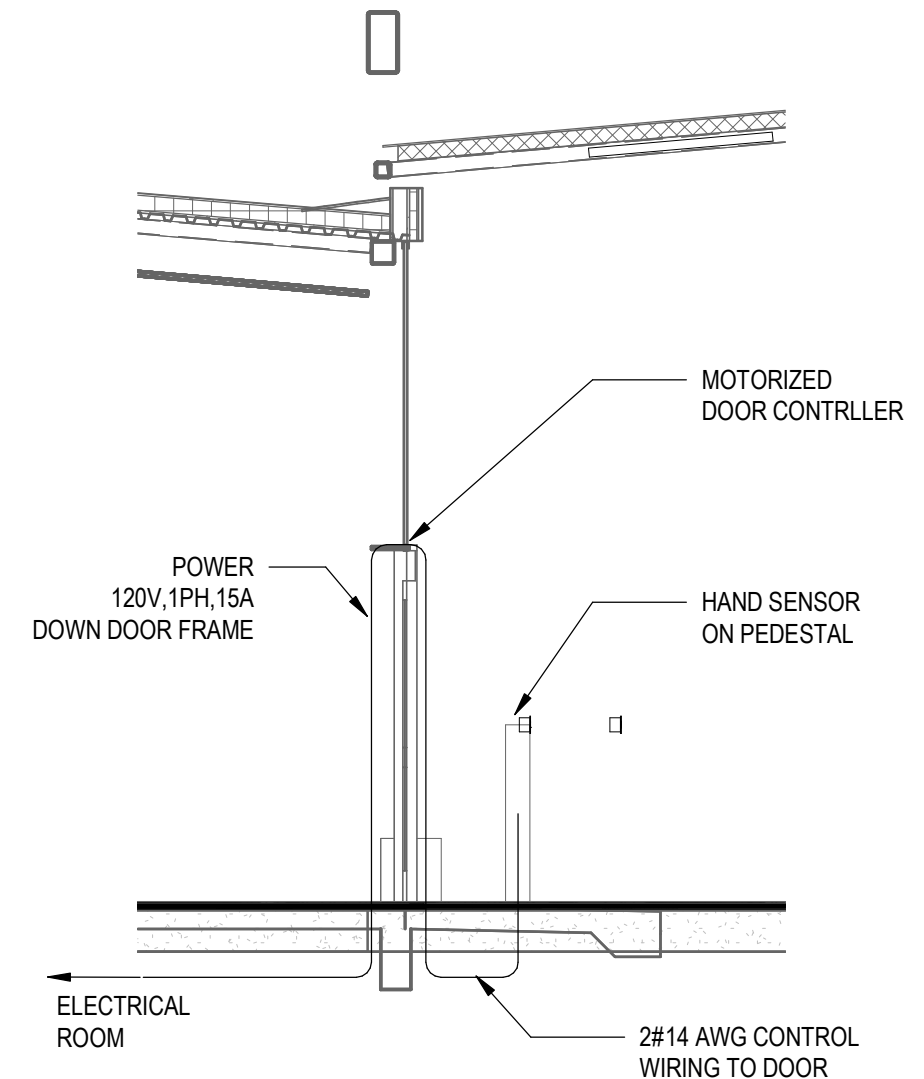


KEYNOTES	
002	MOUNT AT 3500mm A.F.F. ON PENDANT.
008	HOME RUN UNDERNEATH FLOOR TO SOURCE.

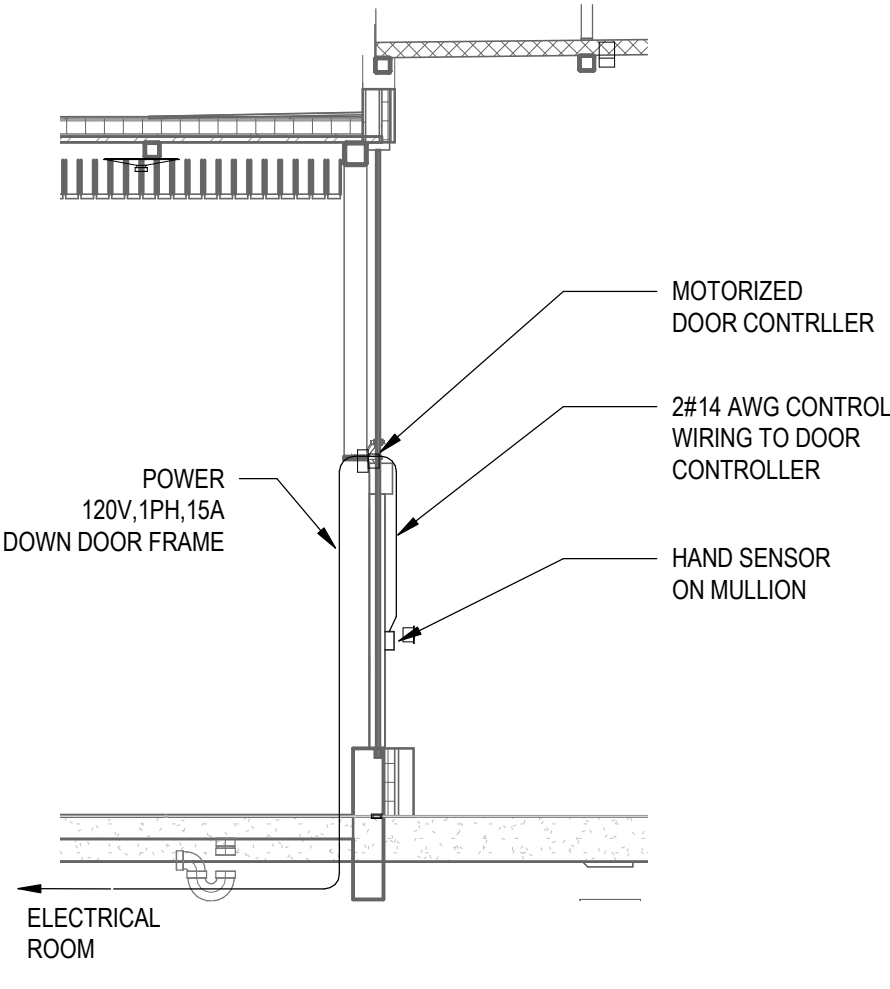
1 LEVEL 1 - LOW VOLTAGE SYSTEMS PLAN
SCALE: 1:100



2 ELECTRICAL/MECHANICAL/COMMUNICATION ROOM - ELECTRICAL PLAN
SCALE: 1:50



3 MOTORIZED DOOR SECTION
SCALE: N.T.S



4 MOTORIZED SLIDING DOOR SECTION
SCALE: N.T.S

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	issue data		
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	revisions		

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consultant job no 01255E0800	consultant reviewed by CB

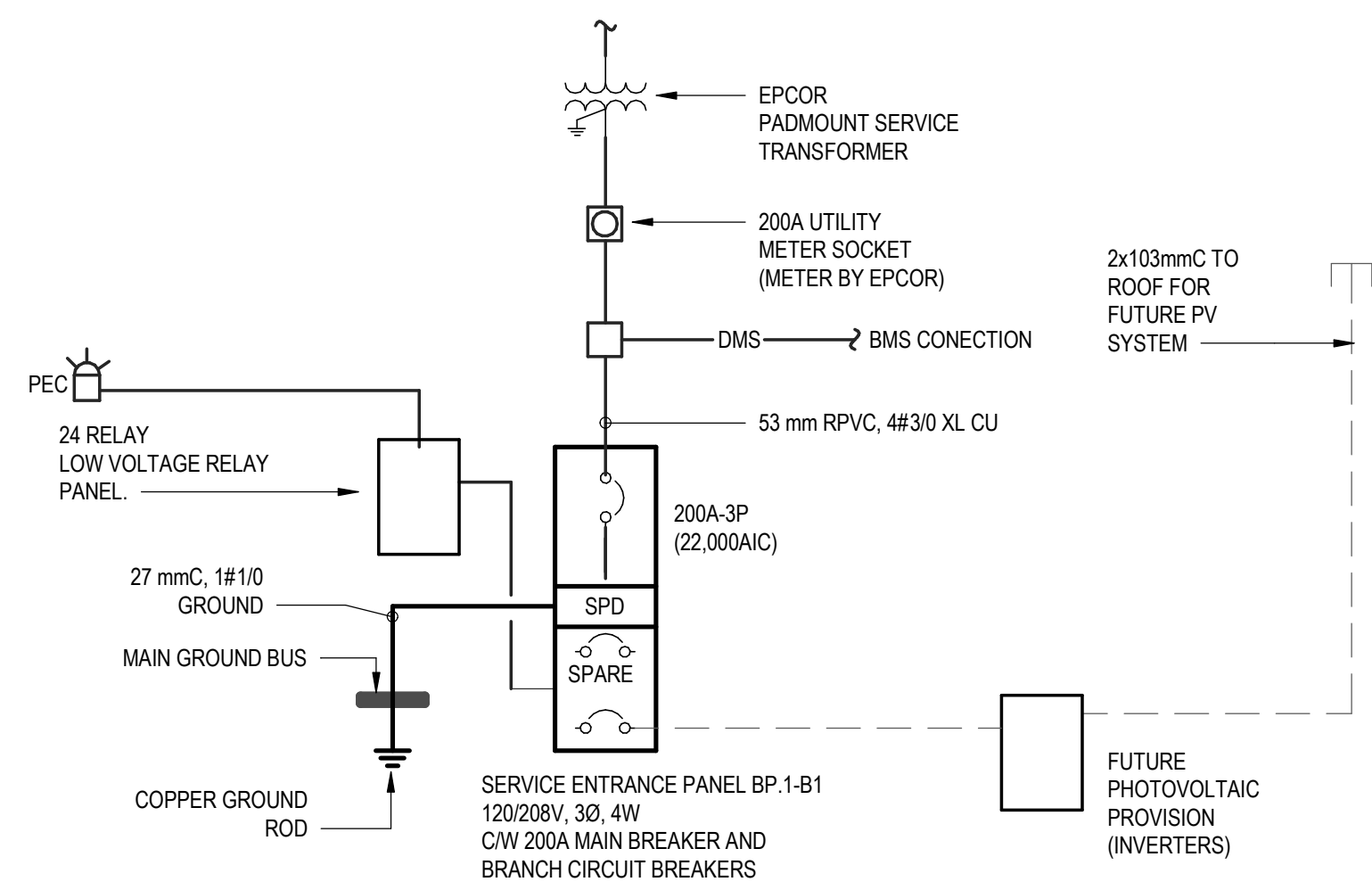
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Edmonton	
prime consultant job no	prime consultant reviewed by Approver

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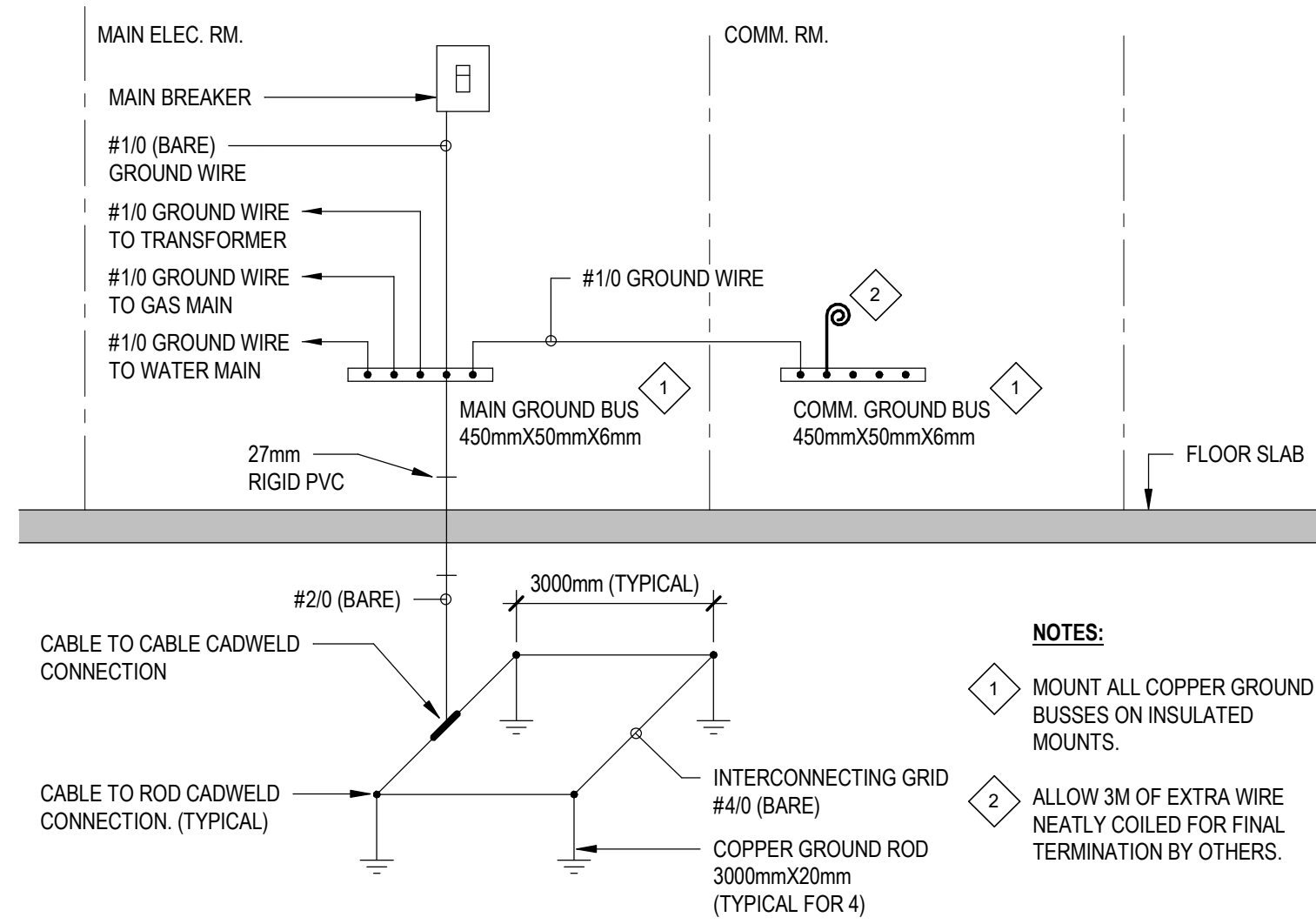
drawing title	
MILL WOODS TRANSIT CENTRE LOW TENSION AND LARGE SCALE PLANS	
drawing no. MWTC 191 E2.02	REV No SHT

VALLEY LINE - STAGE 1 MILL WOODS TO DOWNTOWN

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1
E3.01
SINGLE LINE DIAGRAM
SCALE: N.T.S



2
E3.01
GROUNDING RISER DIAGRAM
SCALE: N.T.S

- NOTES:**
- 1 MOUNT ALL COPPER GROUND BUSES ON INSULATED MOUNTS.
 - 2 ALLOW 3M OF EXTRA WIRE NEATLY COILED FOR FINAL TERMINATION BY OTHERS.

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	issue data		
no.	description	date	checked
	revisions		

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MILL WOODS TRANSIT CENTRE
SINGLE LINE DIAGRAMS AND RISERS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 E3.01
REV No SH1

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PANEL NUMBER: B1											
PROJECT: MILL WOODS TRANSIT...				PROJECT NUMBER: XXXXXSXXXX				CITY:			
LOCATION: ELECTRICAL 102				VOLTAGE: 120/208 Vye				A.I.C. RATING: 22 KA			
SUPPLY FROM:				PHASES: 3				MAINS TYPE: BREAKER			
MOUNTING: Surface				WIRES: 4				MAINS: 400 A			
CIRCUITS: 84											
CCT NO.	TYPE	CIRCUIT DESCRIPTION	BRK SIZE	A	B	C	BRK SIZE	CIRCUIT DESCRIPTION	TYPE	CCT NO.	
B1-1	LTG.	EXIT LIGHTS	15 A	0.01	0.40		20 A	IT ROOM	REC.	B1-2	
B1-3	--	SPARE	15 A		0.00	0.40	20 A	IT ROOM	REC.	B1-4	
B1-5	LTG.	WAITING AREA INDOOR LIGHTING	15 A			0.75	0.40	20 A	IT ROOM	REC.	B1-6
B1-7	LTG.	WAITING AREA INDOOR LIGHTING	15 A	0.86	0.20			20 A	IT ROOM	REC.	B1-8
B1-9	LTG.	SERVICE INDOOR LIGHTING	15 A		0.46	0.80		20 A	IT ROOM U/S OF TRAY	REC.	B1-10
B1-11	LTG.	MISC. INDOOR LIGHTING	15 A			0.54	0.80	20 A	IT ROOM U/S OF TRAY	REC.	B1-12
B1-13	LTG.	WAITING AREA OUTDOOR LIGHTING	15 A	0.37	0.60			20 A	TICKET VENDING MACHINE	OTH.	B1-14
B1-15	LTG.	BUS BAY LIGHTING	20 A		0.70	1.20		20 A	FEMALE STAFF WC HAND DRYER	REC.	B1-16
B1-17	LTG.	BUS BAY LIGHTING	20 A			0.91	1.20	20 A	MALE STAFF WC HAND DRYER	REC.	B1-18
B1-19	LTG.	BUS BAY LIGHTING	15 A	0.35	1.20			20 A	FEMALE PUBLIC WC HAND DRYER	REC.	B1-20
B1-21	OTH.	SIGNAGE LIGHTING	15 A		0.14	1.20		20 A	MALE PUBLIC WC HAND DRYER	REC.	B1-22
B1-23	LTG.	WALKWAY LIGHTING	20 A			0.41	1.00	20 A	CONVENIENCE RECEPTACLES	REC.	B1-24
B1-25	LTG.	WALKWAY LIGHTING	20 A	0.41	0.60			20 A	CONVENIENCE RECEPTACLES	REC.	B1-26
B1-27	--	SPARE	15 A		0.00	0.40		20 A	HOUSEKEEPING RECEPTACLES	REC.	B1-28
B1-29	--	SPARE	15 A			0.00	1.00	15 A	DOOR OPERATOR	OTH.	B1-30
B1-31	--	SPARE	15 A	0.00	1.00			15 A	DOOR OPERATOR	OTH.	B1-32
B1-33	--	SPARE	15 A		0.00	1.00		15 A	DOOR OPERATOR	OTH.	B1-34
B1-35	--	SPARE	15 A			0.00	1.00	15 A	DOOR OPERATOR	OTH.	B1-36
B1-37	--	SPACE	--	0.00	1.20			20 A	KIOSK/SECURITY RECEPTACLES	REC.	B1-38
B1-39	--	SPACE	--		0.00	0.80		20 A	SNACK/DRINK VENDING MACHINE	REC.	B1-40
B1-41	--	SPACE	--			0.00	0.80	15 A	SNACK/DRINK VENDING MACHINE	REC.	B1-42
B1-43	Other	DOMESTIC WATER HEATER 'DWH-1'	20 A	1.50	0.25			20 A	EMERGENCY PHONES	OTH.	B1-44
B1-45	REC.	GLYCOL FILL TANK 'GFS-1'	15 A		0.40	1.00		15 A	EMERGENCY PHONES	REC.	B1-46
B1-47	MTR.	DWH RECIRC PUMP 'P-3'	15 A			0.10	0.00	--	-- SMART FARE READERS --	--	B1-48
B1-49				4.18	0.00			--	-- SMART FARE READERS --	--	B1-50
B1-51	MTR.	HEAT RECOVERY VENTILATOR	55 A			4.18	0.00	--	-- SMART FARE READERS --	--	B1-52
B1-53							0.60	15 A	WAYFINDING SIGN	OTH.	B1-54
B1-55	MTR.	GLYCOL HEATING PUMP 'P-1'	15 A	0.10	0.20			15 A	CLOCK TOWER	OTH.	B1-56
B1-57	MTR.	GLYCOL HEATING PUMP 'P-2'	15 A		0.10	0.20		15 A	PA CABINET	OTH.	B1-58
B1-59	MTR.	BOILER RECIRC PUMP 'P-B1'	15 A			0.10	0.30	15 A	BMS PANEL	OTH.	B1-60
B1-61	MTR.	BOILER RECIRC PUMP 'P-B2'	15 A	0.10							B1-62
B1-63	MTR.	INFRARED HEATER FAN 'IR-1'	15 A		0.30						B1-64
B1-65	MTR.	INFRARED HEATER FAN 'IR-2'	15 A			0.30					B1-66
B1-67	MTR.	SPLIT SYSTEM CONDENSING UNIT AND FAN COIL 'CU-1,FC-1'	20 A	1.45							B1-68
B1-69					1.45						B1-70
B1-71	Other	EXHAUST 'EF-1,EF-2' AND DAMPERS...	15 A			0.60					B1-72
B1-73	MTR.	UNIT HEATERS 'UH-1,UH-2'	15 A	0.30							B1-74
B1-75											B1-76
B1-77											B1-78
B1-79					0.00				-- SPACE	--	B1-80
B1-81						0.00			-- SPACE	--	B1-82
B1-83							0.00		-- SPACE	--	B1-84
Total Load:				15.20 kVA	14.69 kVA	14.89 kVA					
Total Amps:				127 A	122 A	124 A					

LOAD CLASSIFICATION	CONNECTED LOAD	DEMAND FACTOR	ESTIMATED DEMAND	PANEL TOTALS
Other	1500 VA	100.00%	1500 VA	
LTG.	5280 VA	100.00%	5280 VA	
REC.	14000 VA	50.00%	7000 VA	Total Conn. Load: 44.77 kVA
MTR.	17428 VA	70.00%	12200 VA	Total Est. Demand: 32.56 kVA
OTH.	6790 VA	100.00%	6790 VA	Total Conn. Current: 124 A
				Total Est. Demand Current: 90 A

Notes:
PANEL TO BE 2x42 CCT DOUBLE TUB CONFIGURATION

SECURITY SYSTEM CABLE SCHEDULE					
NO.	DEVICE	TYPE	NO. OF POINTS	NOTES	CABLE
1	DOOR	CARD READER		CARD ACCESS SYSTEM ONLY	COMPOSITE ACCESS CONTROL CABLE OVERALL JACKETED. SEE DOOR INPUT/OUTPUTS.
2	CARD READER	CARD READER	DIRECT WIEGAND	CARD ACCESS SYSTEM ONLY	UNDER 250' - 3P STP #22 AWG SHIELDED FROM COMPOSITE CABLE OVER 250' - 3P STP #18 SHIELDED
3	ARMING CARD READER RM2-LPH	CARD READER	RS485 PORT	CARD ACCESS SYSTEM ONLY	3P STP #18 SHIELDED
4	DOOR CONTACT CARD READER DOOR	DOOR INPUT	1	CARD ACCESS SYSTEM ONLY	1P #22 AWG FROM COMPOSITE CABLE
5	DOOR CONTACT NON CARD READER DOOR	DOOR INPUT	1	DOUBLE DOOR CAN BE WIRED IN SERIES 1 FT. 2 DOORS.	4C #22 AWG STRANDED
6	ELECTRIC STRIKE	DOOR OUTPUT	1	CARD ACCESS SYSTEM ONLY	UNDER 250' - 1P #18 AWG SHIELDED FROM COMPOSITE CABLE OVER 250' - 1P #16 AWG SHIELDED
7	BARRIER FREE DOOR H/C BYPASS RELAY	OUTPUT	1	CARD ACCESS SYSTEM ONLY	1P #18 AWG SHIELDED
8	DOOR CONTROL RELAY	OUTPUT	1	CARD ACCESS SYSTEM ONLY	1P #18 AWG SHIELDED FROM COMPOSITE CABLE
9	SLIDING DOOR SOLENOID	DOOR OUTPUT	1	CARD ACCESS SYSTEM ONLY	1P #18 AWG SHIELDED FROM COMPOSITE CABLE
10	REQUEST TO EXIT	INPUT	1	CARD ACCESS SYSTEM ONLY	2P #22 AWG FROM COMPOSITE CABLE
11	SIREN	OUTPUT	1		2C #18 AWG SHIELDED STRANDED
12	STROBE	OUTPUT	1		4C #18 AWG SHIELDED STRANDED
13	SIREN STROBE COMBO	OUTPUT	1		ONE (1) 4C #18 AWG STRANDED
14	LED INDICATOR	OUTPUT	1		ONE (1) 2C #18 AWG STRANDED
15	KEYPAD	NON READER	1		6C #22 AWG STRANDED
16	WINDOW CONTACT	INPUT	1		4C #22 AWG STRANDED
17	GLASS BREAK DETECTOR	INPUT	2	1 ALARM POINT 1 TAMPER POINT	6C #22 AWG STRANDED
18	MOTION DETECTOR	INPUT	2	1 ALARM POINT 1 TAMPER POINT	6C #22 AWG STRANDED
19	LOW TEMP. SENSOR	INPUT	1	1 ALARM POINT	4C #22 AWG STRANDED
20	PANIC ALARM	INPUT	1	1 ALARM POINT	6C #22 AWG STRANDED
21	WIRELESS PANIC RECEIVER	INPUT	1	1 ALARM POINT	6C #22 AWG STRANDED
22	BMS ALARM MONITORING	INPUT	1	1 ALARM POINT	6C #22 AWG STRANDED
23	WATER SENSOR	INPUT	1	1 ALARM POINT	ONE (1) 4C #22 AWG STRANDED

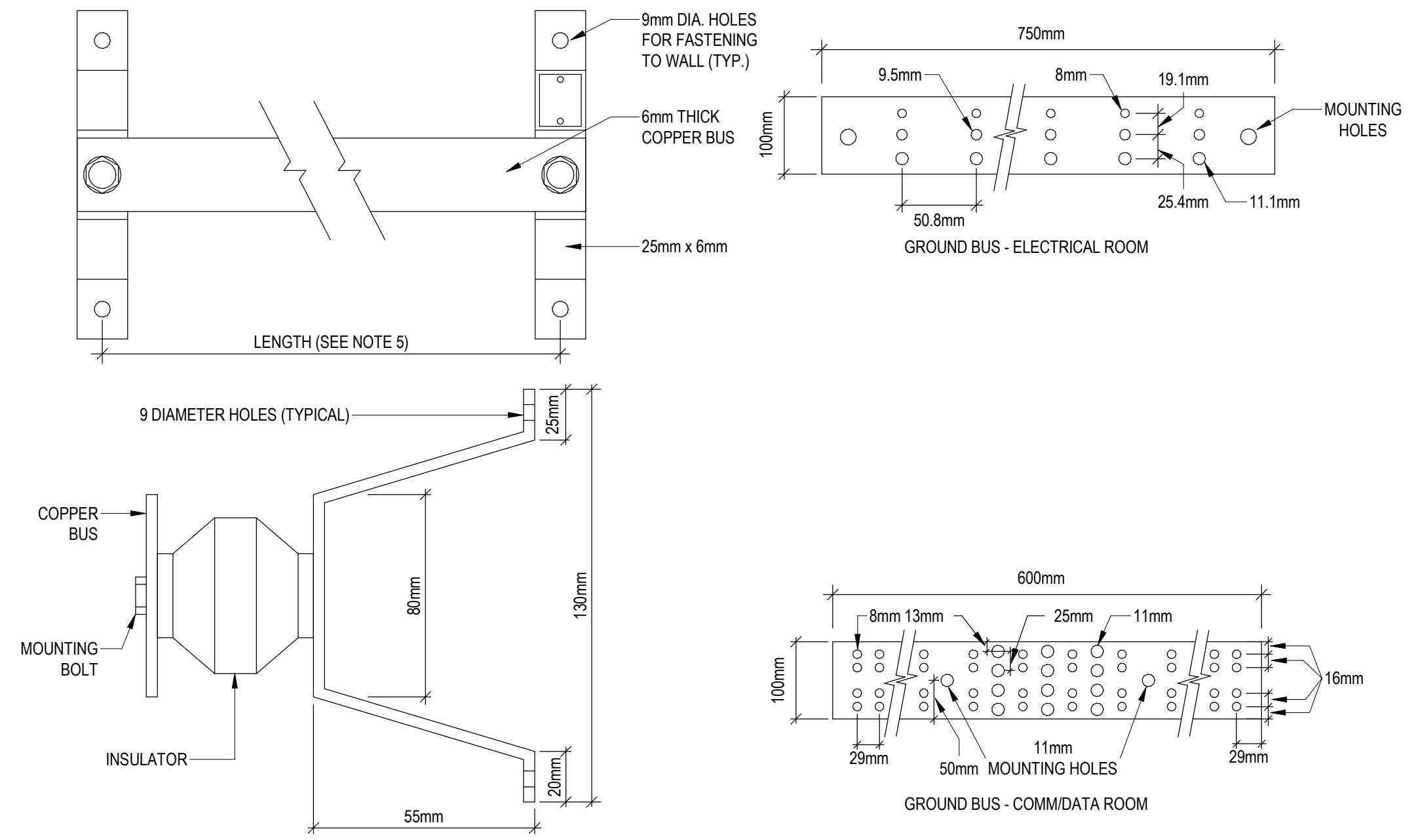
NOTE: CONDUITS TO BE SIZED AT 40% FILL TO ALLOW FOR EXPANSION, MINIMUM SIZE = 21mmC

LVRP B1-L1 SCHEDULE										
PANEL	RELAY NUMBER	ROOM NUMBER	ROOM NAME	CIRCUIT NUMBER	RELAY VOLTAGE	OCCUPANCY SENSOR	DAYLIGHT OR PHOTOCELL	DIMMING	TIME CLOCK	COMMENTS
B1-L1	L1-1	104	JANITOR RM.	B1-9	120 V	Yes	No	No	No	
B1-L1	L1-2	105	PUBLIC WC	B1-11	120 V	Yes	No	No	Yes	
B1-L1	L1-3	106	PUBLIC WC	B1-11	120 V	Yes	No	No	Yes	
B1-L1	L1-4	107	FEMALE STAFF WC	B1-11	120 V	Yes	No	No	Yes	
B1-L1	L1-5	108	MALE STAFF WC	B1-11	120 V	Yes	No	No	Yes	
B1-L1	L1-6	109	KIOSK	B1-11	120 V	Yes	No	No	No	
B1-L1	L1-7	110	SECURITY RM.	B1-11	120 V	Yes	No	No	No	
B1-L1	L1-8	111	HEATED WAITING AREA	B1-5	120 V	Yes	Yes	Yes	Yes	
B1-L1	L1-9	111	HEATED WAITING AREA	B1-7	120 V	Yes	Yes	Yes	Yes	
B1-L1	L1-10		CANOPY	B1-13	120 V	No	Yes	No	Yes	
B1-L1	L1-11		UNHEATED WAITING AREA	B1-13	120 V	No	Yes	No	Yes	
B1-L1	L1-12		WALKWAY WEST COLUMN	B1-23	120 V	No	Yes	No	Yes	
B1-L1	L1-13		WALKWAY EAST COLUMN	B1-25	120 V	No	Yes	No	Yes	
B1-L1	L1-14		BUS BAY AREA NORTH	B1-15	120 V	No	Yes	No	Yes	
B1-L1	L1-15		BUS BAY AREA SOUTH	B1-17	120 V	No	Yes	No	Yes	
B1-L1	L1-16		BUS BAY AREA ISLAND	B1-19	120 V	No	Yes	No	Yes	
B1-L1	L1-17		SIGNAGE	B1-21	120 V	No	Yes	No	Yes	
B1-L1	L1-18		BACK OF BUILDING		120 V	No	Yes	No	Yes	

Camera ID	Camera Name	Location	Type	Model #	Hostname	Genetec ID	IP Address	Revisions	Notes
1	MIL-CAM-05-01	Northwest Heated Shelter	PTZ	P5635-E MKII	mil-cam01	2123001	10.102.123.11		
2	MIL-CAM-05-02	Northeast Heated Shelter	PTZ	P5635-E MKII	mil-cam02	2123002	10.102.123.12		
3	MIL-CAM-05-03	Public Washroom Doors	Fixed	Q3615-VE	mil-cam03	2123003	10.102.123.13		
4	MIL-CAM-05-04	Heated Waiting Area	Fixed, 360	P3707-PE	mil-cam04	2123004	10.102.123.14		
5	MIL-CAM-05-05	Unheated Waiting Area	Fixed, 360	P3707-PE	mil-cam05	2123005	10.102.123.15		
6	MIL-CAM-05-06	Comm Room	Fixed	P3225-LV Mk II	mil-cam06	2123006	10.102.123.16		
7	MIL-CAM-05-07	West Bus Entrance	Fixed, 360	P3707-PE	mil-cam07	2123007	10.102.123.17		Add POE extender
8	MIL-CAM-05-08	Southwest Busway	PTZ	P5635-E MKII	mil-cam08	2123008	10.102.123.18		Add POE extender
9	MIL-CAM-05-09	North Central Busway	PTZ	P5635-E MKII	mil-cam09	2123009	10.102.123.19		
10	MIL-CAM-05-10	South Central Busway	PTZ	P5635-E MKII	mil-cam10	2123010	10.102.123.20		
11	MIL-CAM-05-11	Northeast Busway	PTZ	P5635-E MKII	mil-cam11	2123011	10.102.123.21		Add POE extender
12	MIL-CAM-05-12	Southeast Busway	PTZ	P5635-E MKII	mil-cam12	2123012	10.102.123.22		Add POE extender
13	MIL-CAM-05-13	East Bus Entrance	Fixed, 360	P3707-PE	mil-cam13	2123013	10.102.123.23		Add POE extender
14	MIL-CAM-05-14	Southeast Corner Bus Shelter	PTZ	P5635-E MKII	mil-cam14	2123014	10.102.123.24		
15	MIL-CAM-05-15	Northwest Corner Bus Shelter	PTZ	P5635-E MKII	mil-cam15	2123015	10.102.123.25		Parapet mounting
16	MIL-CAM-05-16	South Walkway Entrance	Fixed	Q3615-VE	mil-cam16	2123016	10.102.123.26		
17	MIL-CAM-05-17	Mid Walkway Looking South	Fixed	Q3615-VE	mil-cam17	2123017	10.102.123.27		
18	MIL-CAM-05-18	Mid Walkway Looking North	Fixed	Q3615-VE	mil-cam18	2123018	10.102.123.28		
19	MIL-CAM-05-19	North Walkway	PTZ	P5635-E MKII	mil-cam19	2123019	10.102.123.29		Add POE extender
20	MIL-CAM-05-20	North Walkway Looking West	Fixed	Q3615-VE	mil-cam20	2123020	10.102.123.30		
21	MIL-CAM-05-21	North Walkway Entrance	Fixed	Q3615-VE	mil-cam21	2123021	10.102.123.31		Add POE extender
22	MIL-CAM-05-22	West Bus Entrance	PTZ	P5635-E MKII	mil-cam22	2123022	10.102.123.32		Add POE extender
23	MIL-CAM-05-23	East Bus Entrance	PTZ	P5635-E MKII	mil-cam23	2123023	10.102.123.33		Add POE extender
24	MIL-CAM-05-24	Northwest Corner Bus Shelter	PTZ	P5635-E MKII	mil-cam24	2123024	10.102.123.34		Parapet mounting

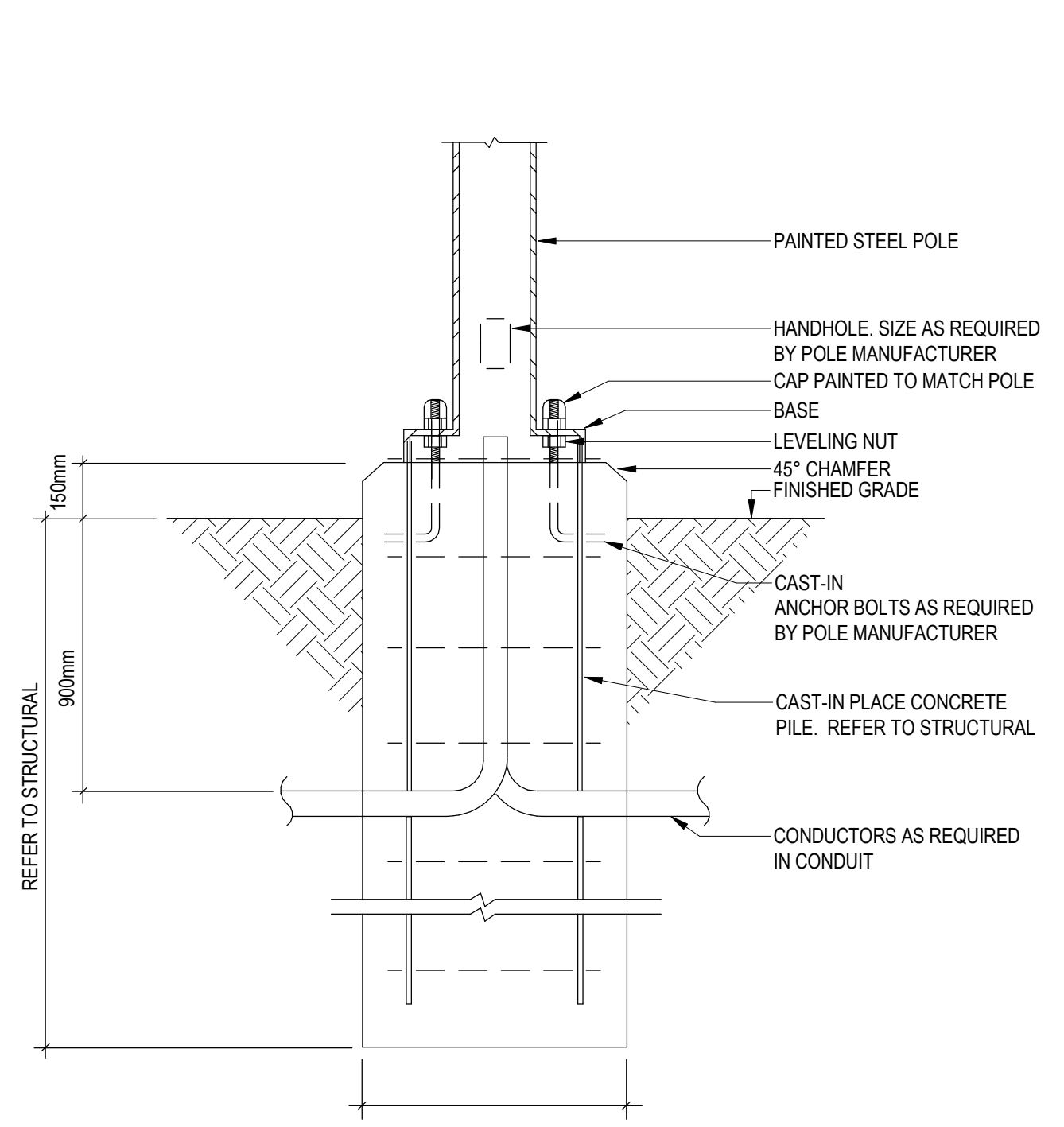
1 MILL WOODS TRANSIT CENTRE - CCTV SCHEDULE
E3.02 SCALE: N.T.S.

MECHANICAL EQUIPMENT SCHEDULE															
Equip. No.	Description	Location	Load			Motor Full Load Amps	Control Package with Equipment	Panel	Breaker Size	Starter Location	Starter Type	Controls			Remarks
			HP	KW											



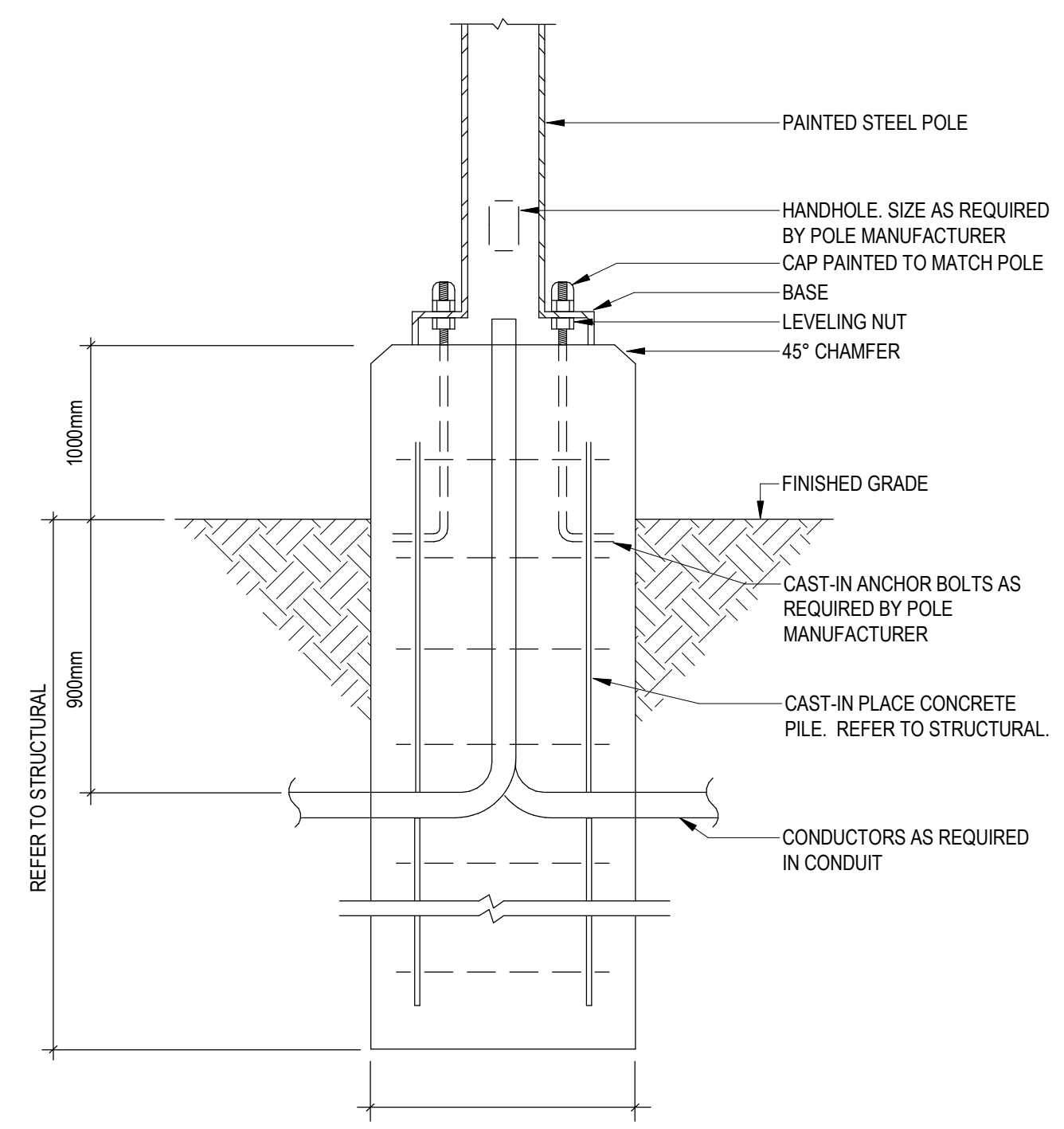
- NOTES:
1. DRILL BUS AS REQUIRED FOR BOLT ON LUGS.
 2. IN WET LOCATIONS MAKE CONNECTIONS WITH EVERDUR BOLTS.
 3. MOUNT BUS 500mm ABOVE FINISHED FLOOR.
 4. CONNECTIONS SHALL BE MADE WITH COMPRESSION GROUNDING CONNECTORS
 5. GROUND BUS LENGTHS:
 - MAIN ELECTRICAL ROOM - 750mm
 - SUB-ELECTRICAL ROOMS - 500mm
 - MAIN COMM/DATA ROOM - 600mm
 - SUB-COMM/DATA ROOMS - 450mm

1 WALL MOUNTED GROUND BUS DETAIL
SCALE: N.T.S.



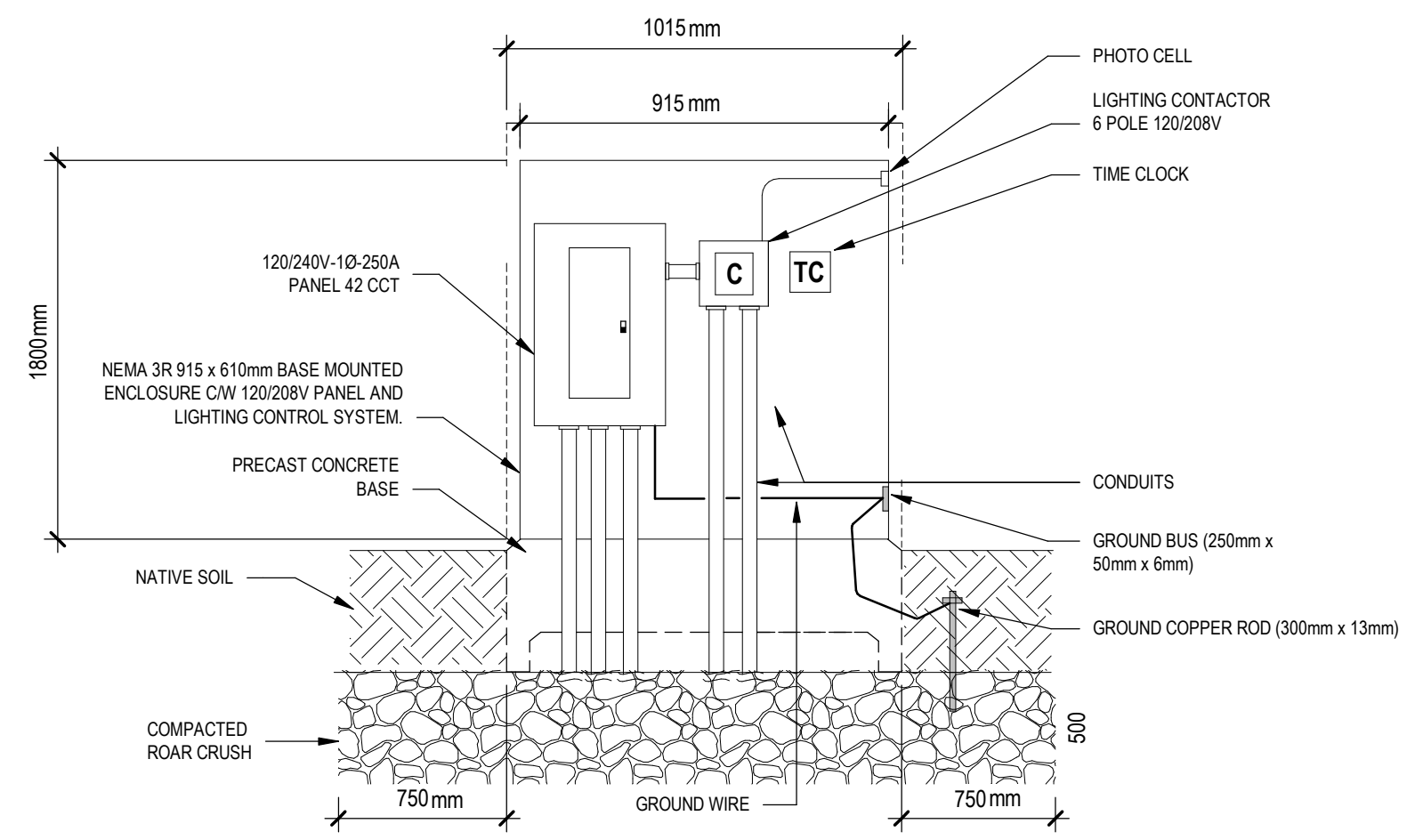
NOTE: USE THIS DETAIL FOR POLES IN LANDSCAPED OR GRASSED AREAS.

2 TYPICAL LIGHT STANDARD BASE
SCALE: N.T.S.

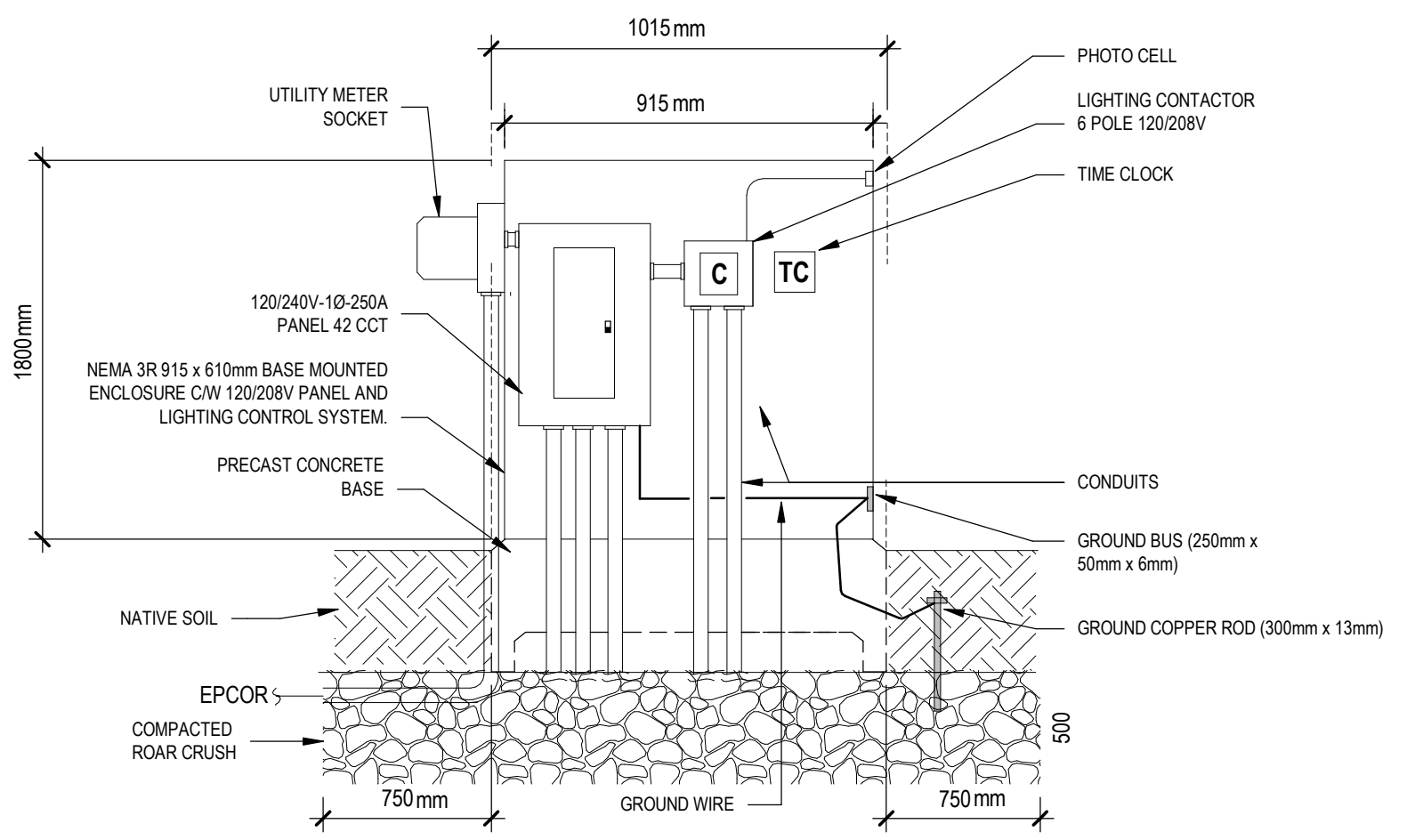


NOTE: USE THIS DETAIL FOR POLES IN PARKING LOTS.

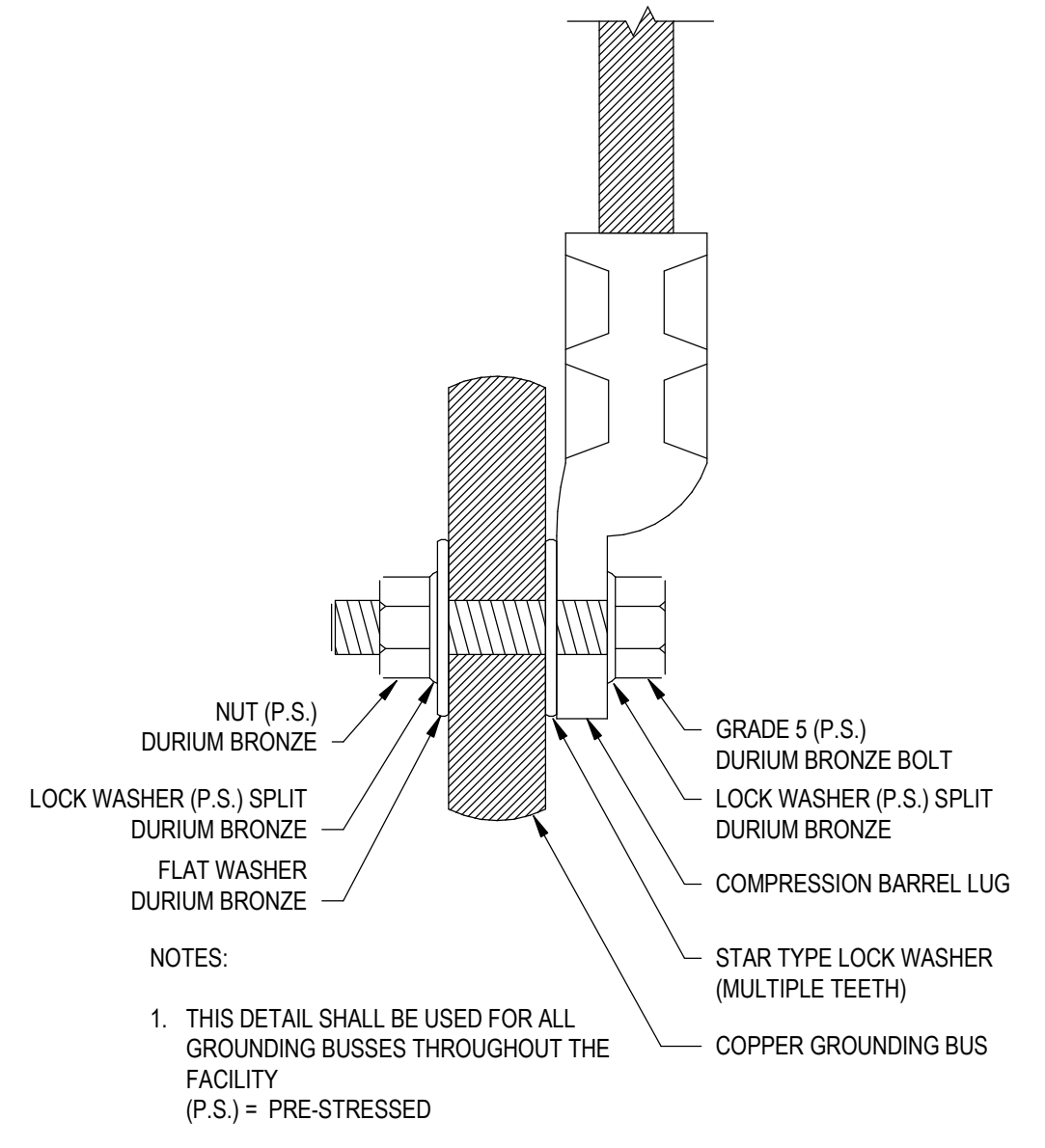
5 TYPICAL GROUND BOLT-UP CONNECTION DETAIL
SCALE: N.T.S.



3 POWER DISTRIBUTION CENTRE - LP-A/LP-B
SCALE: N.T.S.



4 POWER DISTRIBUTION CENTRE - LP-C
SCALE: N.T.S.



- NOTES:
1. THIS DETAIL SHALL BE USED FOR ALL GROUNDING BUSES THROUGHOUT THE FACILITY (P.S.) = PRE-STRESSED

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	issue data		
no.	description	date	checked
	revisions		

DIALOG
Consultant

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AS INDICATED

drawn by LL
designed by LU/CB/CVL
checked by CB
date 2019/05/03

permit

consultant job no 01255E0800

seal

consultant reviewed by CB

AECOM
Prime Consultant

Edmonton

prime consultant job no

HATCH

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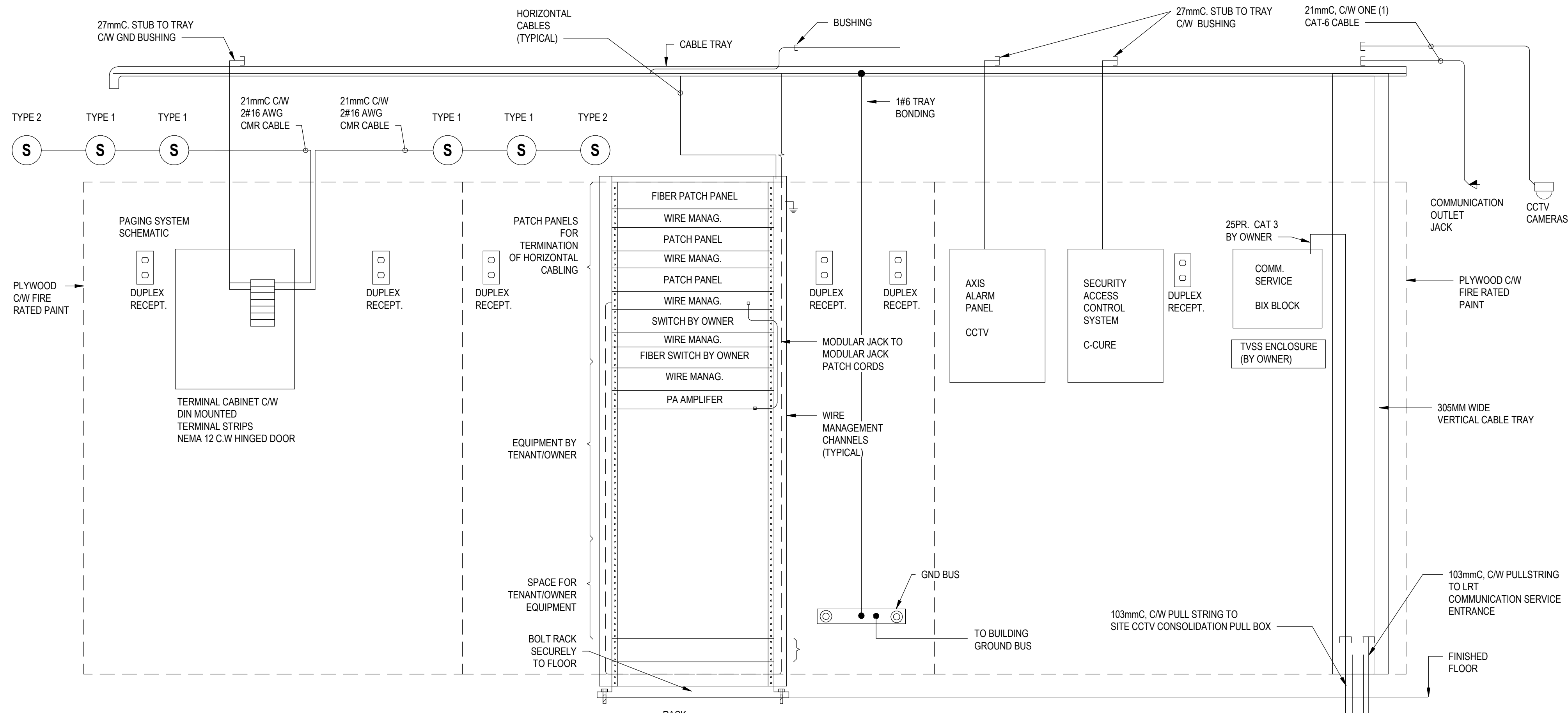
DIALOG

gec architecture

drawing title
MILL WOODS TRANSIT CENTRE ELECTRICAL DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 E4.02
REV No SHT

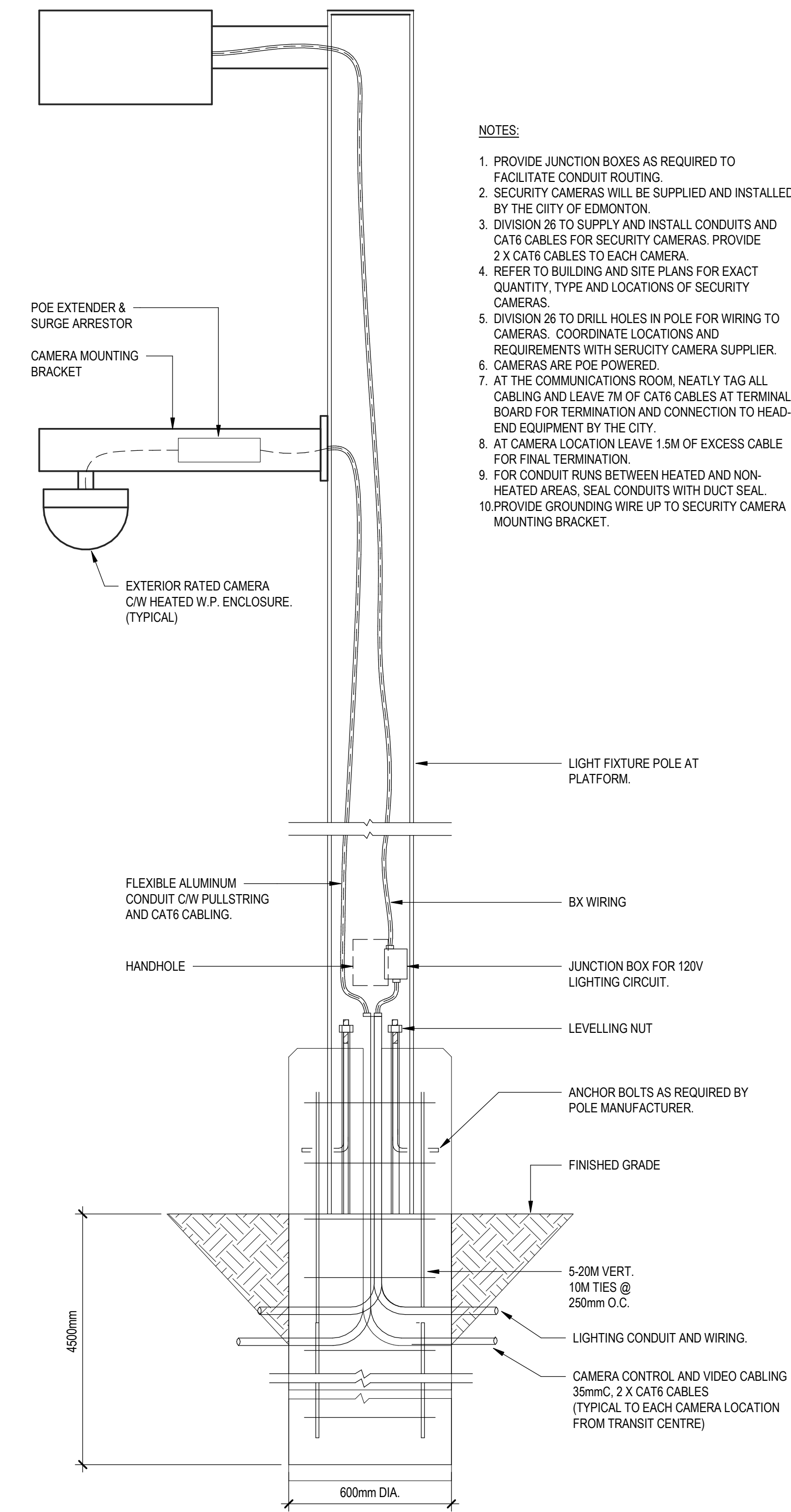


NOTES:

- 1956mm H x 483mm W, HEAVY DUTY TYPE
- EIA SPACING
- TAPPED & DRILLED ON BOTH SIDES

- EXACT CONFIGURATION OF RACK TO BE COORDINATED WITH EDMONTON TRANSIT IT DEPARTMENT.
- ALL UNDERGROUND CAT-6 CABLE SHALL BE OSP AND WITHSTAND WATER.

1 COMMUNICATION ROOM DETAILS AND SCHEMATICS
SCALE: N.T.S



2 POLE MOUNTED SECURITY CAMERA DETAIL
SCALE: N.T.S

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checked by CB date 2019/05/03

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PROFESSIONAL ENGINEER ALBERTA
E.H. FONG
APEGA Permit P10020
2019-05-05

consultant job no 01255E0800

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AECOM Prime Consultant

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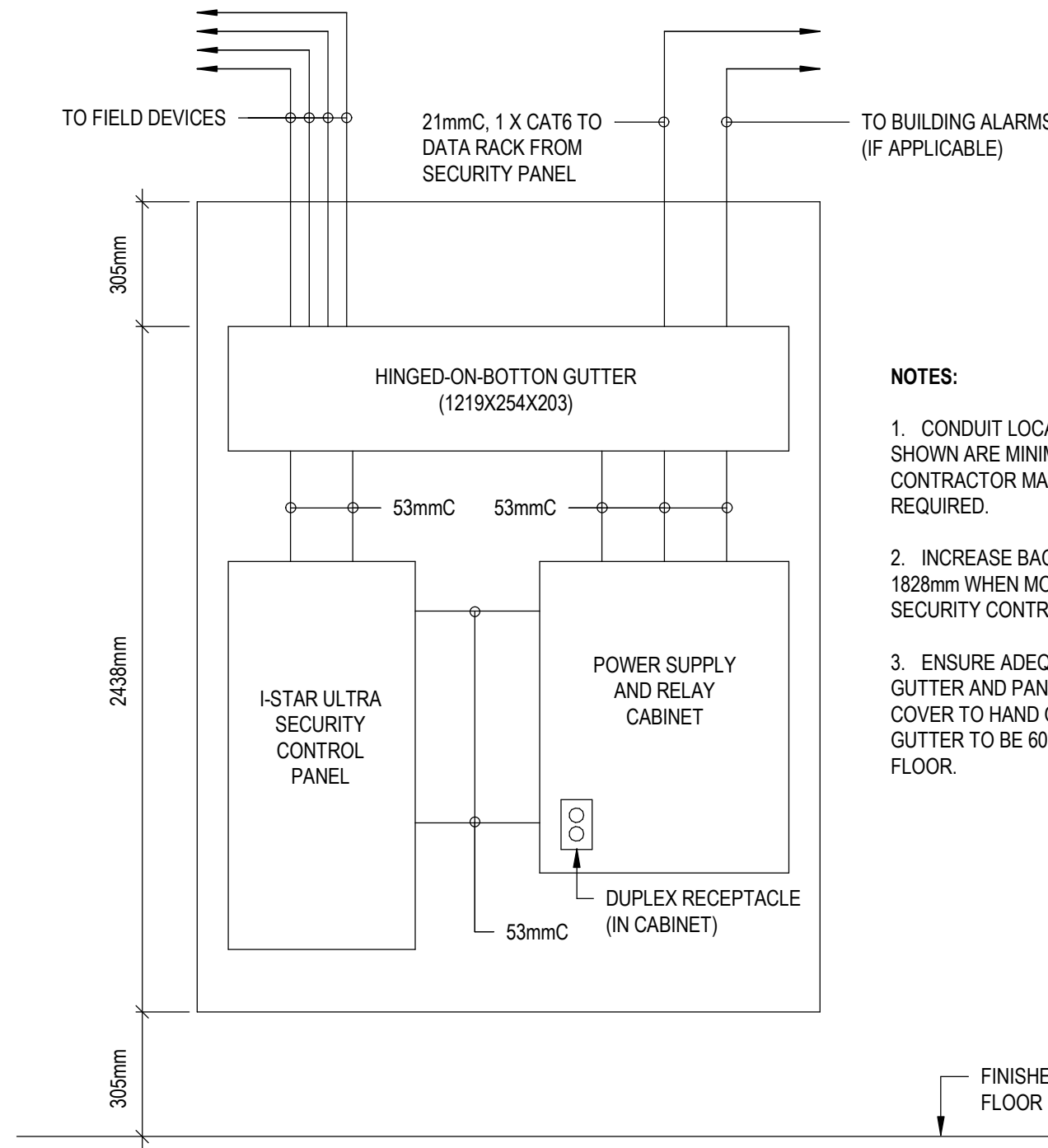
drawing title
MILL WOODS TRANSIT CENTRE ELECTRICAL DETAILS

VALLEY LINE - STAGE 1
MILL WOODS TO DOWNTOWN

drawing no. MWTC 191 E4.03

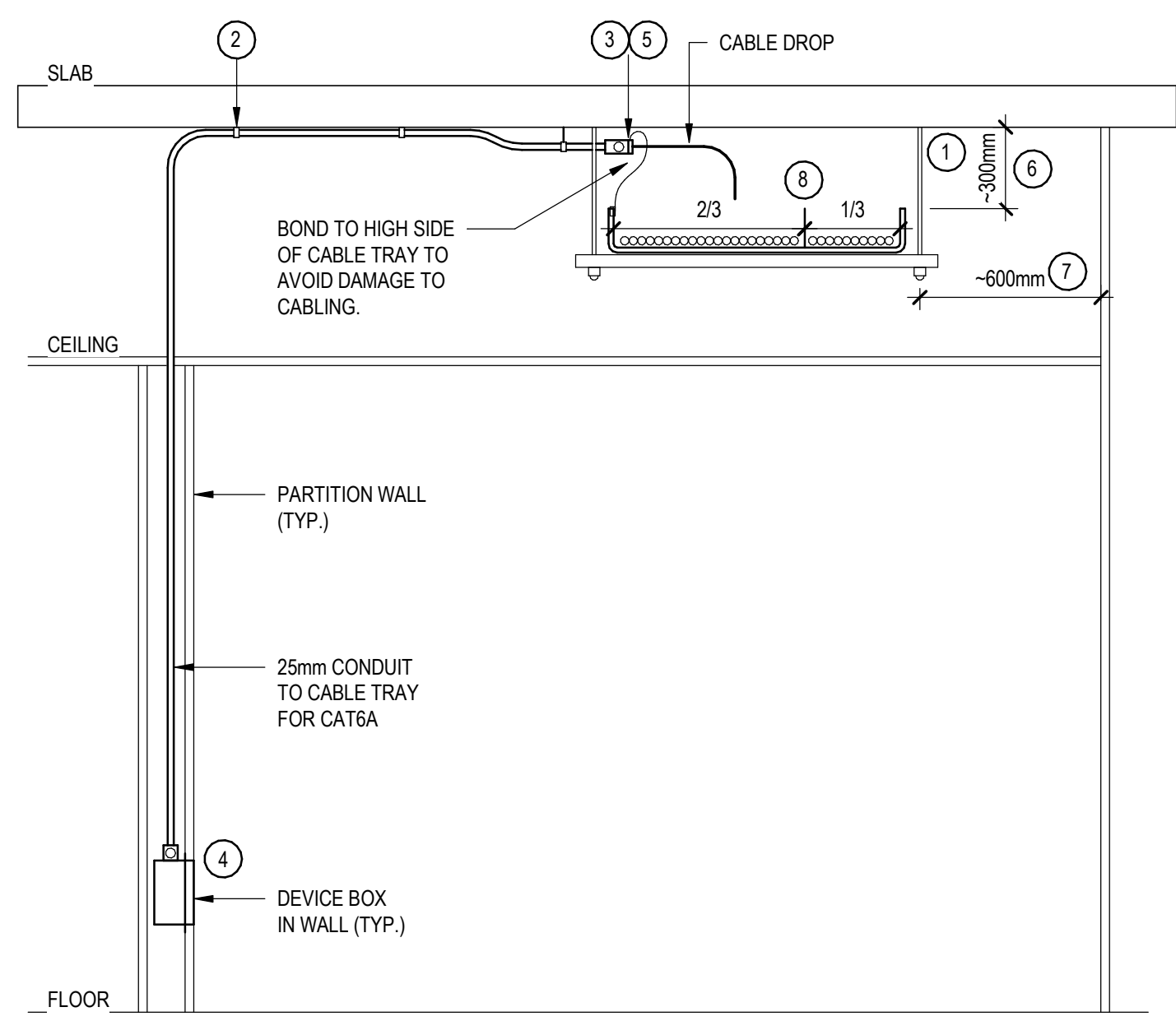
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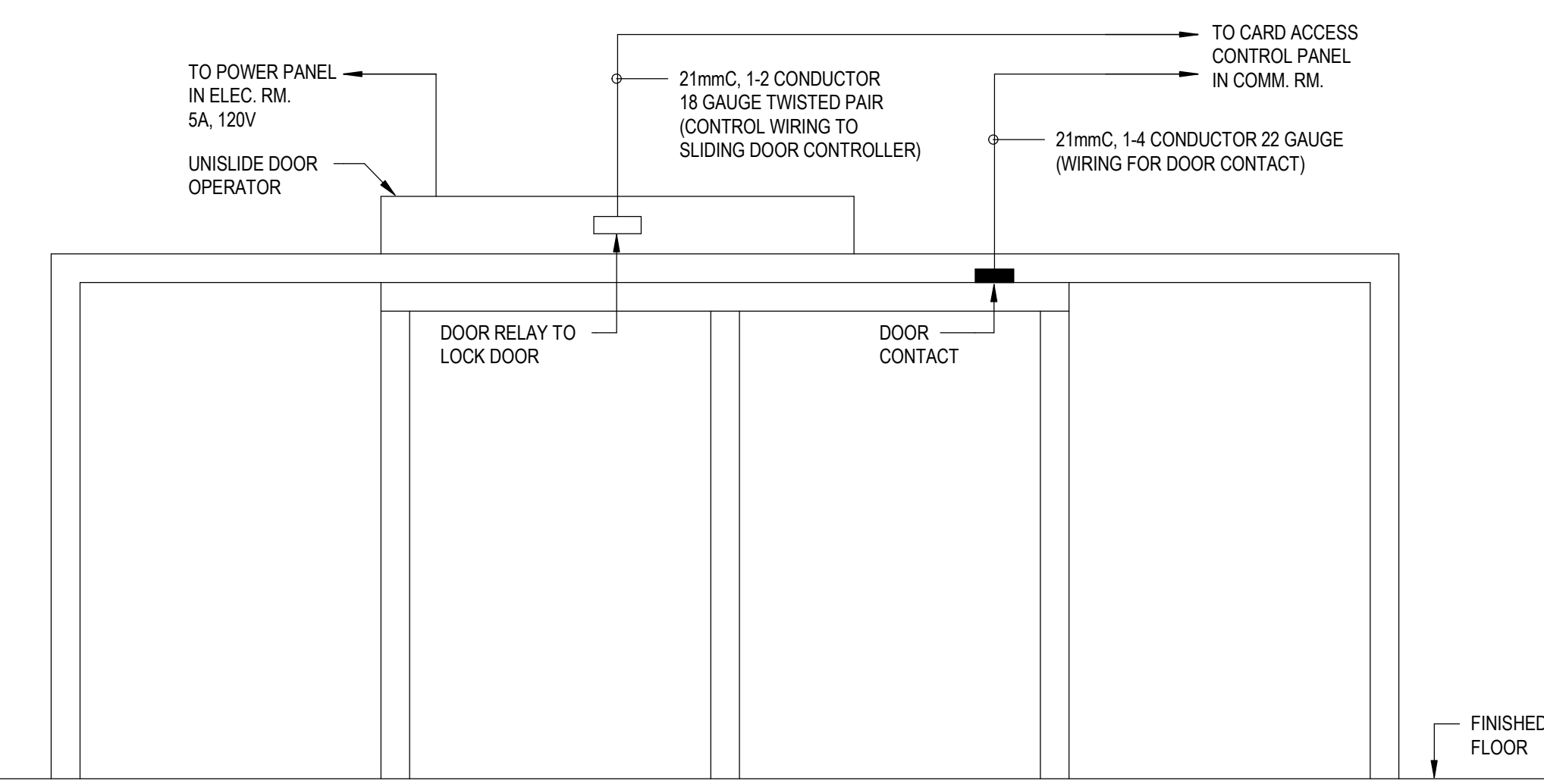
- NOTES:**
1. CONDUIT LOCATION AND SIZES SHOWN ARE MINIMUM REQUIREMENTS. CONTRACTOR MAY ADD CONDUIT AS REQUIRED.
 2. INCREASE BACKBOARD WIDTH TO 1828mm WHEN MORE THAN ONE SECURITY CONTROL PANEL IS REQUIRED.
 3. ENSURE ADEQUATE SPACE BETWEEN GUTTER AND PANEL TO ALLOW HINGED COVER TO HAND OPEN. BOTTOM OF GUTTER TO BE 600mm FROM FINISHED FLOOR.

1 ACCESS CONTROL AND SECURITY PANEL LAYOUT
E4.04 SCALE: N.T.S

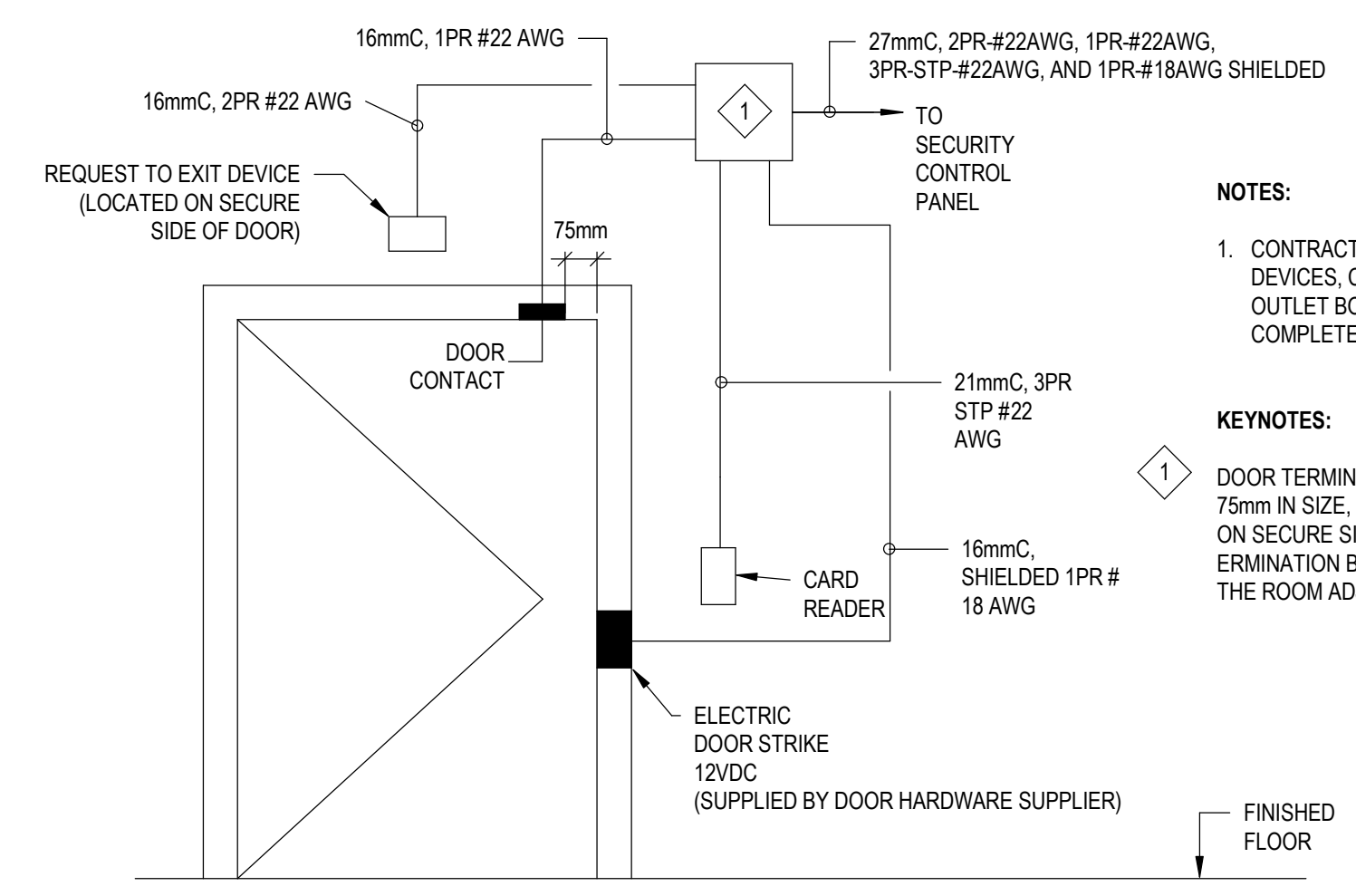


- KEY NOTES**
- 1 SUPPORT TRAY AT EVERY JOINT AND MIDSPAN. SPACING TO BE APPROXIMATELY 1524mm (FOR 3048mm LENGTH OF TRAY).
 - 2 CONDUIT TO BE DIRECTLY SUPPORTED FROM SLAB.
 - 3 PROVIDE PLASTIC BUSHING AT ENDS OF CONDUIT TO PROTECT AGAINST CABLE ABRASIONS. USE #12 AWG BONDING CONDUCTOR TO CABLE TRAY.
 - 4 IF COMMUNICATION OUTLET IS WITHIN 150mm OF A POWER OUTLET, THEN BOND THE TWO OUTLETS.
 - 5 CONDUITS LONGER THAN 7.5m ARE TO BE BONDED TO CABLE TRAY.
 - 6 MAINTAIN 300mm CLEARANCE FROM THE TOP RAIL OF THE CABLE TRAY TO ALL CEILINGS, HEATING DUCTS AND OTHER EQUIPMENT AND 150mm FOR SHORT LENGTH OBSTRUCTIONS.
 - 7 MAINTAIN 600mm CLEARANCE ON ONE SIDE OF THE CABLE TRAYS MOUNTED ADJACENT TO ONE ANOTHER OR TO WALLS OR OTHER OBSTRUCTIONS.
 - 8 PROVIDE MANUFACTURER-APPROVED DIVIDER ALONG ENTIRE LENGTH OF CABLE TRAY TO CREATE TWO-SECTION. 2/3 SECTION RESERVED FOR COMMUNICATIONS, 1/3 FOR BUILDING SYSTEM.
- NOTES**
1. MAINTAIN ADEQUATE CLEARANCES FROM EMI SOURCES. MINIMUM OF 305mm FROM BALLASTS AND 610mm FROM MOTORS. COMPLY WITH TIA/EIA 569 REQUIREMENTS.
 2. BOND CABLE TRAY TO GROUND BUS IN COMMUNICATIONS ROOM. PROVIDE #6 AWG BARE COPPER BONDING CONDUCTOR ALONG ENTIRE LENGTH OF TRAY AND BOND TO EVERY SECTION OF TRAY.
 3. WHEN INSTALLING CABLE TRAY, MAINTAIN ADEQUATE CLEARANCES (MINIMUM 300mm) FROM HEAT SOURCES SUCH AS MECHANICAL HOT AIR DUCTS.
 4. CABLE TRAY SHALL BE CABLFOIL, FLEXTRAY, OR APPROVED EQUAL.
 5. CABLE TRAY SHALL BE INSTALLED USING MANUFACTURER-APPROVED SPLICING METHODS.

2 TYPICAL OVERHEAD WIRE BASKET TRAY DETAIL
E4.04 SCALE: N.T.S

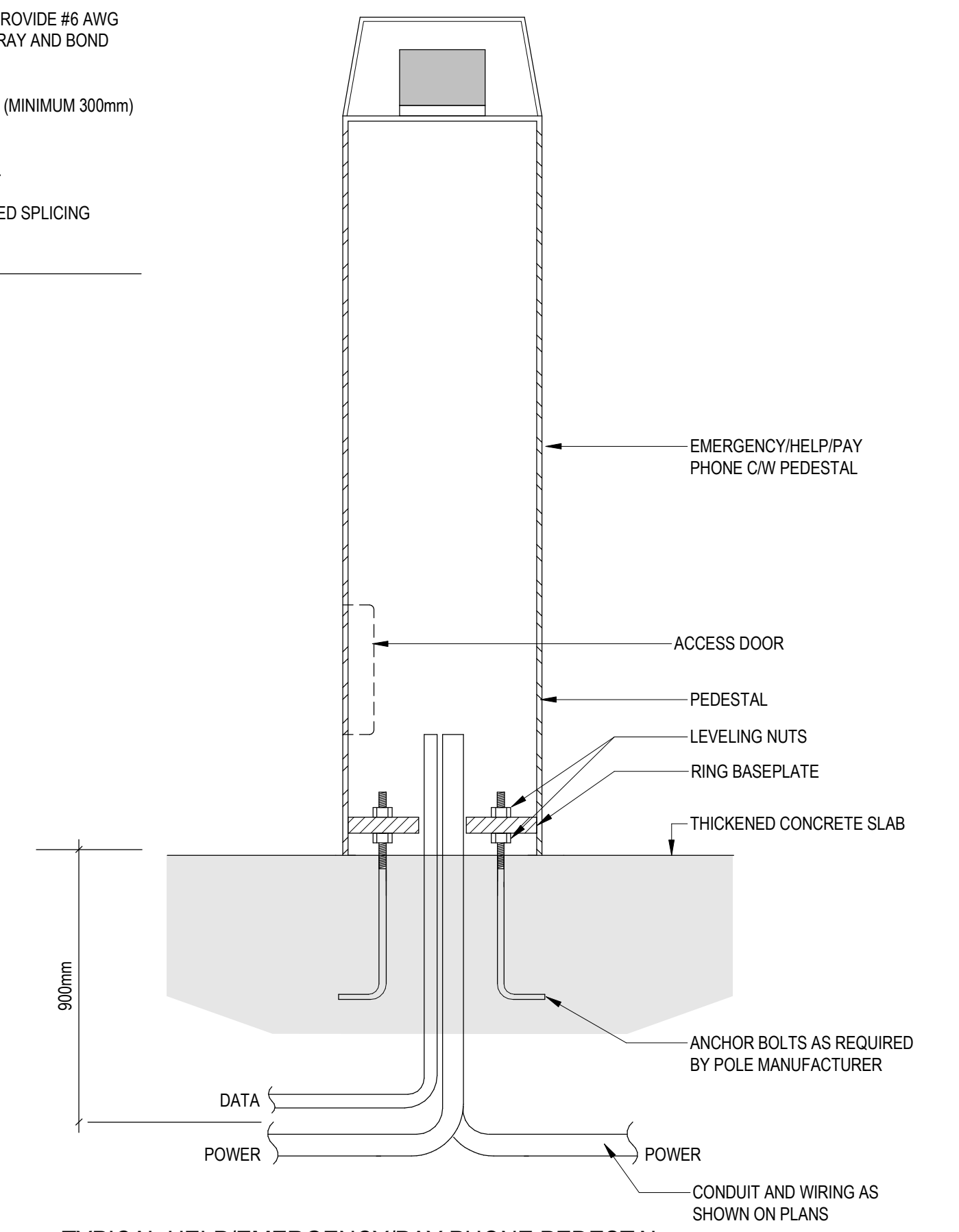


3 TYPICAL ROUGH-IN DETAIL FOR SLIDING DOORS
E4.04 SCALE: N.T.S



- NOTES:**
1. CONTRACTOR TO PROVIDE ALL DEVICES, CONDUIT, CABLING, AND OUTLET BOXES AS REQUIRED FOR A COMPLETE AND OPERABLE SYSTEM.
- KEYNOTES:**
- 1 DOOR TERMINATION BOX, 120mm x 120mm x 75mm IN SIZE. LOCATED IN CEILING SPACE ON SECURE SIDE OF DOOR HEADER THE TERMINATION BOX IN THE CEILING SPACE OF THE ROOM ADJACENT TO THE DOOR.

4 ROUGH-IN DETAIL FOR ELECTRICAL STRIKE REGULAR DOOR TO CARD ACCESS PANEL
E4.04 SCALE: N.T.S



5 TYPICAL HELP/EMERGENCY/PAY PHONE PEDESTAL DETAIL
E4.04 SCALE: N.T.S

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