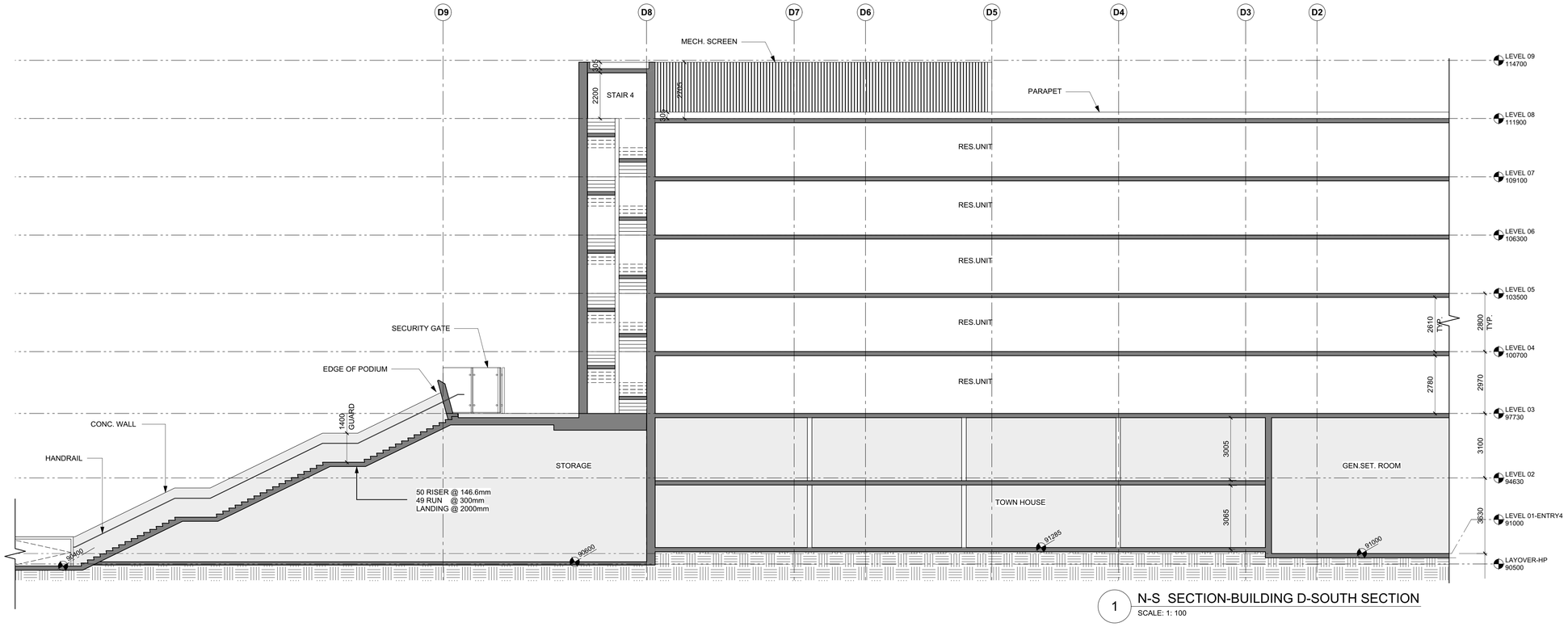
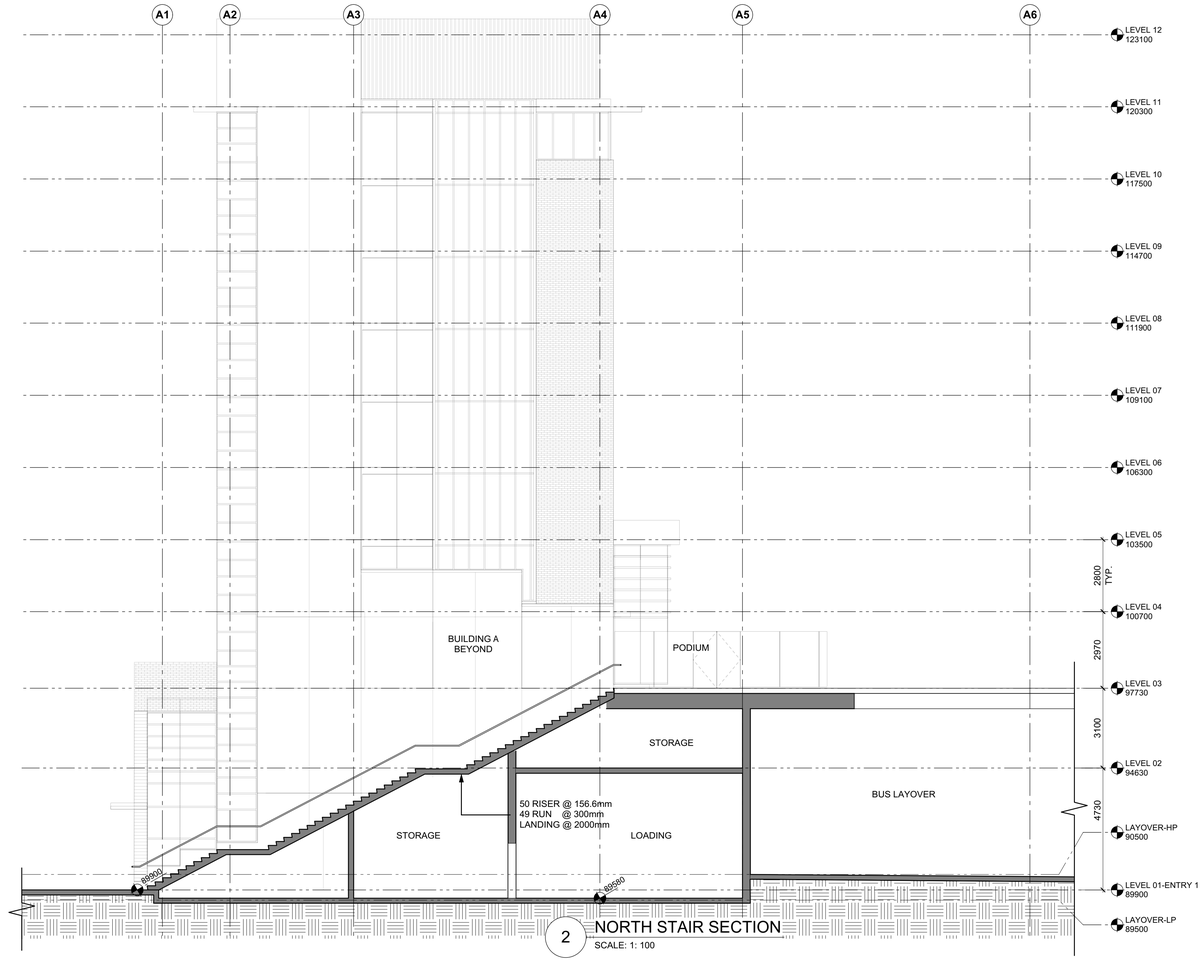


1 N-S SECTION-BUILDING D-SOUTH SECTION

SCALE: 1: 100



2 NORTH STAIR SECTION

SCALE: 1: 100

DIALOG®

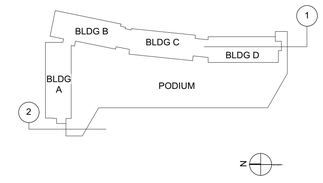
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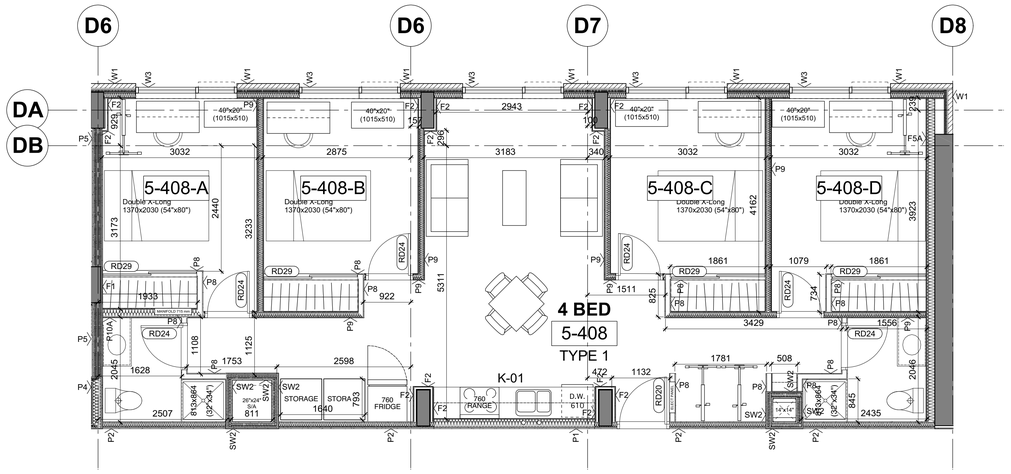
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Enlarged Sections

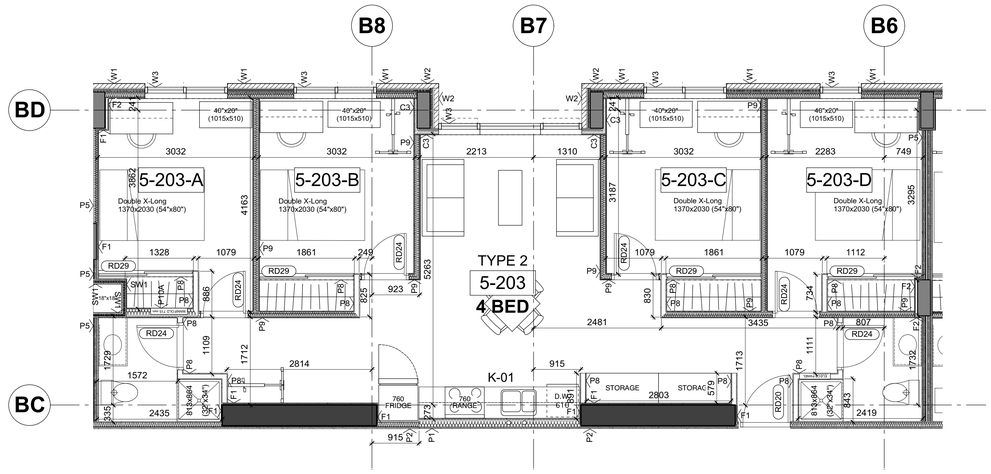
DRAWN: MT CHECKED: DJC

A512



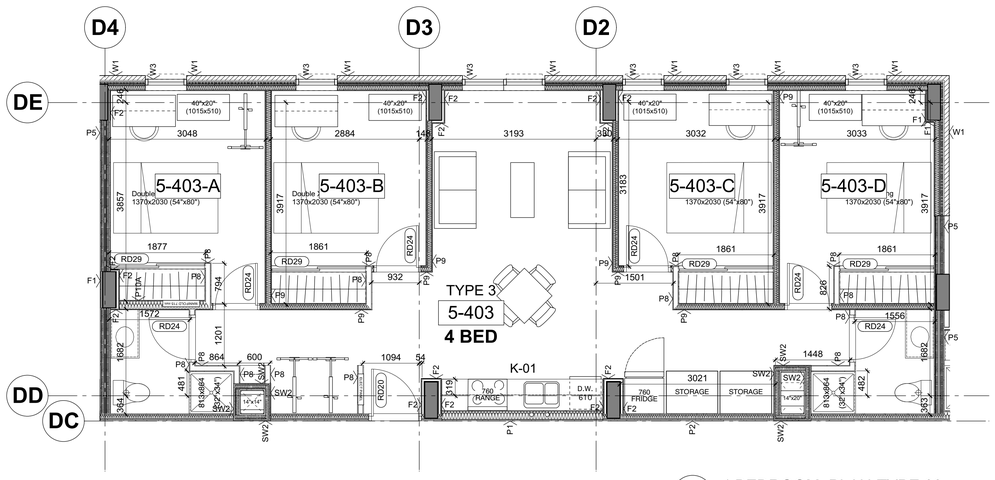
1 4 BEDROOM PLAN-TYPE 01
SCALE: 1: 50

MINISTRY STANDARD
AREA: 96.96 sq m (1043.704 sq ft)



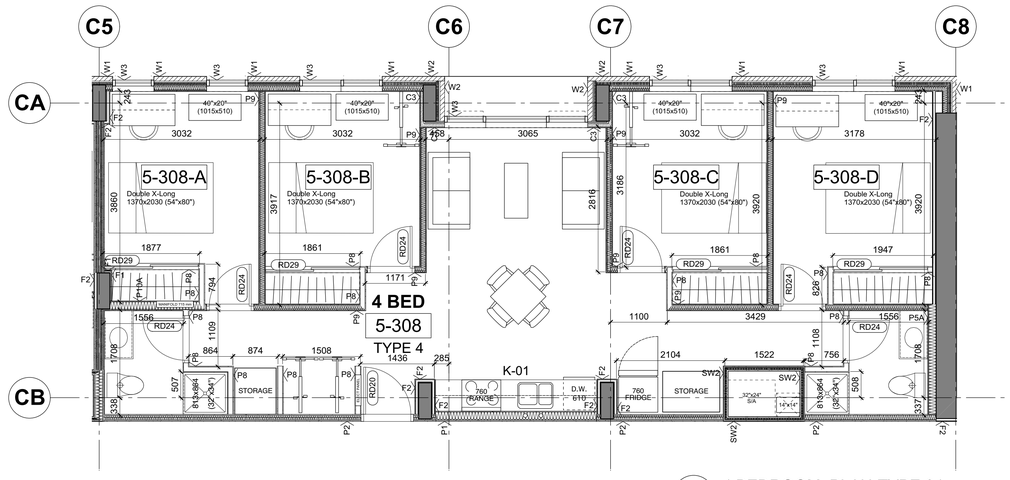
2 4 BEDROOM PLAN-TYPE 02
SCALE: 1: 50

MINISTRY STANDARD
AREA: 94.05 sq m (1012.358 sq ft)



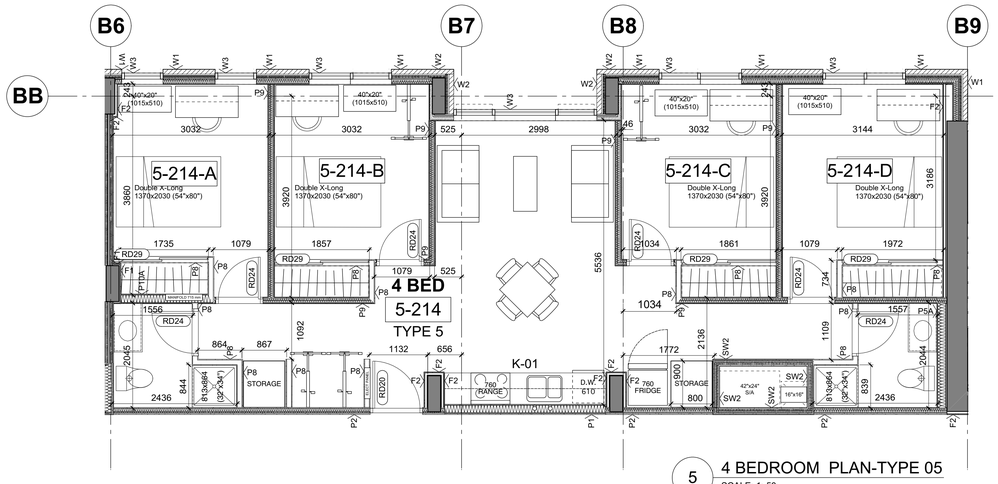
3 4 BEDROOM PLAN-TYPE 03
SCALE: 1: 50

MINISTRY STANDARD
AREA: 97.88 sq m (1053.621 sq ft)



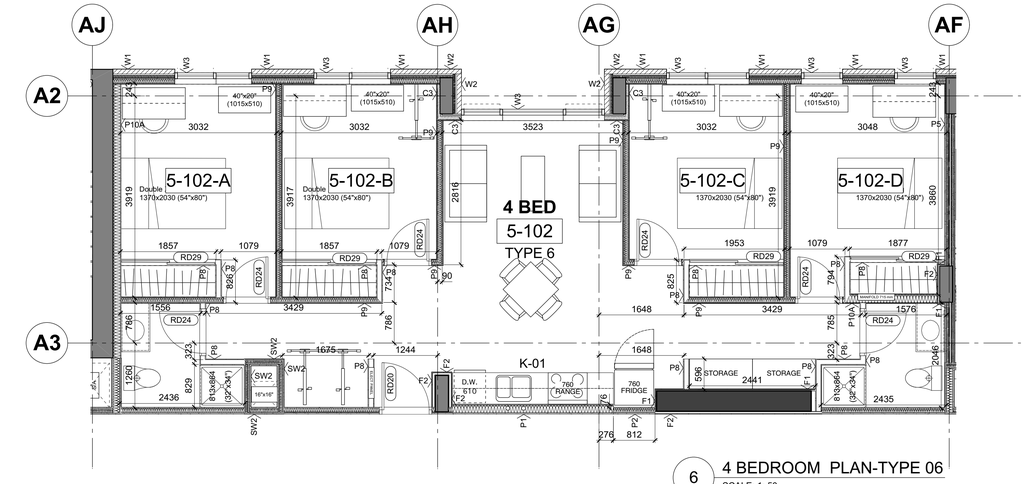
4 4 BEDROOM PLAN-TYPE 04
SCALE: 1: 50

MINISTRY STANDARD
AREA: 95.78 sq m (1031.067 sq ft)



5 4 BEDROOM PLAN-TYPE 05
SCALE: 1: 50

MINISTRY STANDARD
AREA: 94.86 sq m (1021.161 sq ft)



6 4 BEDROOM PLAN-TYPE 06
SCALE: 1: 50

MINISTRY STANDARD
AREA: 96.19 sq m (1035.436 sq ft)

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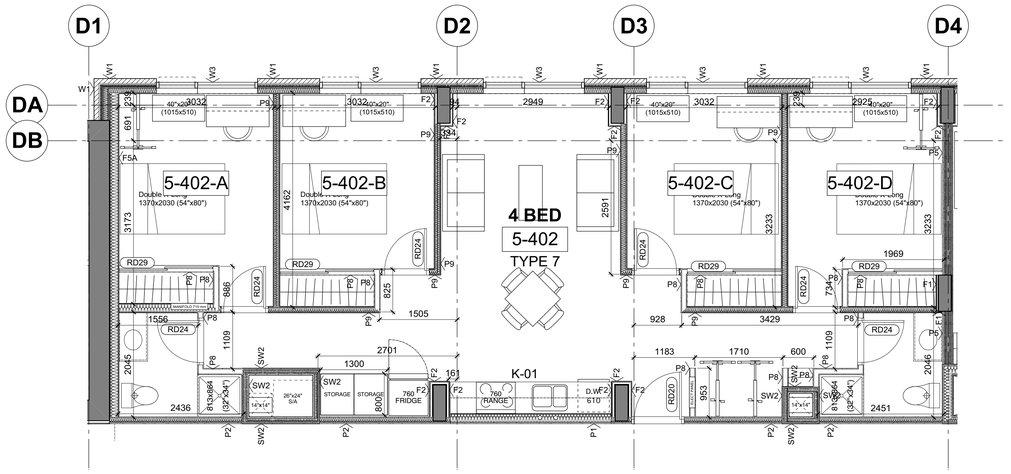
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Typical Unit Plan

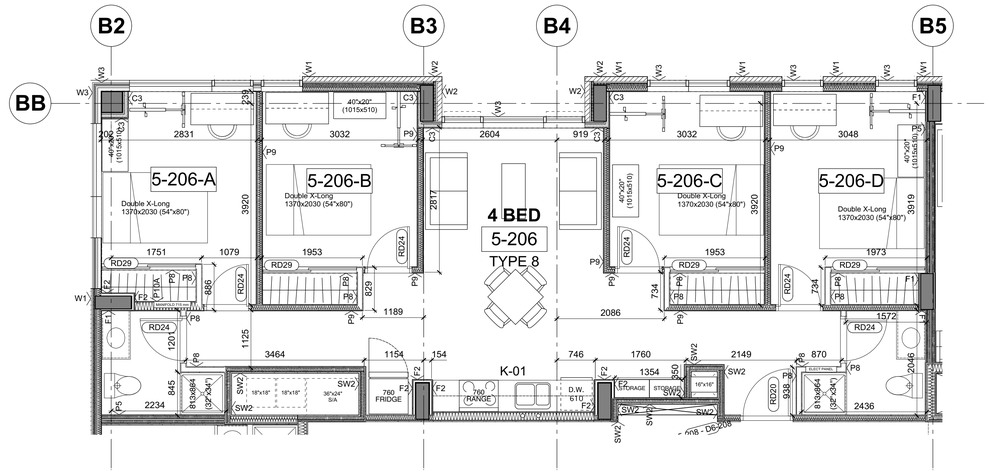
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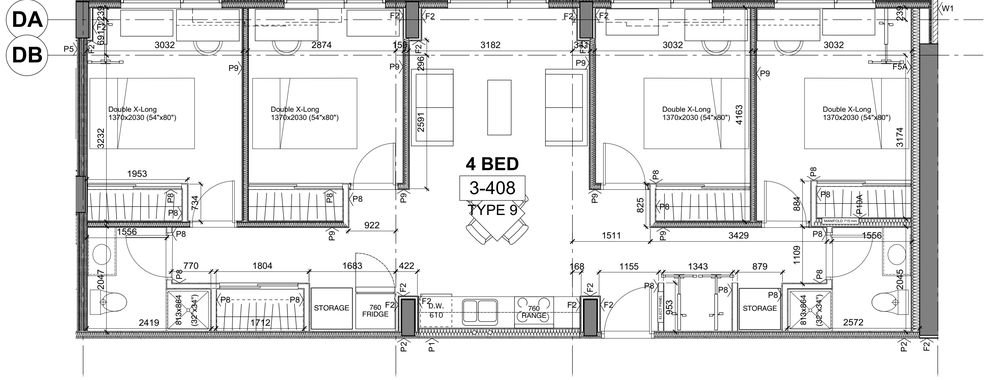
1 4 BEDROOM PLAN-TYPE 07
SCALE: 1: 50

MINISTRY STANDARD
AREA: 97.12 sq m (1045.454 sq ft)



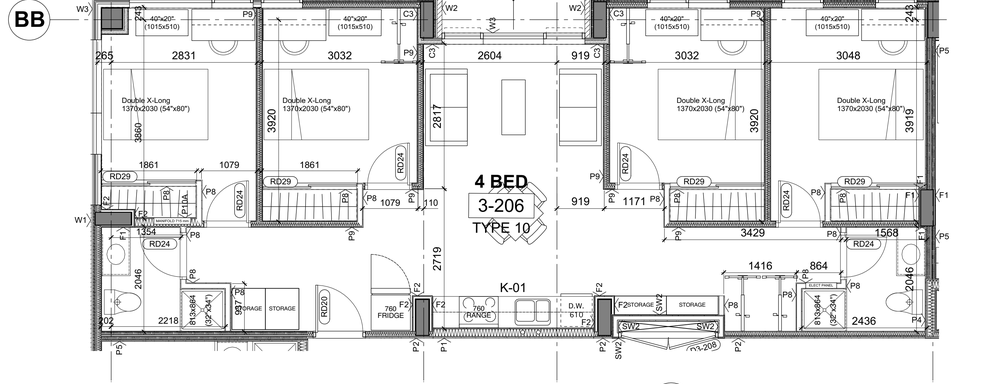
2 4 BEDROOM PLAN-TYPE 08
SCALE: 1: 50

MINISTRY STANDARD
AREA: 92.43 sq m (994.915 sq ft)



3 4 BEDROOM PLAN-TYPE 09
SCALE: 1: 50

MINISTRY STANDARD
AREA: 98.56 sq m (1060.998 sq ft)



4 4 BEDROOM PLAN-TYPE 10
SCALE: 1: 50

MINISTRY STANDARD
AREA: 95.61 sq m (1029.226 sq ft)

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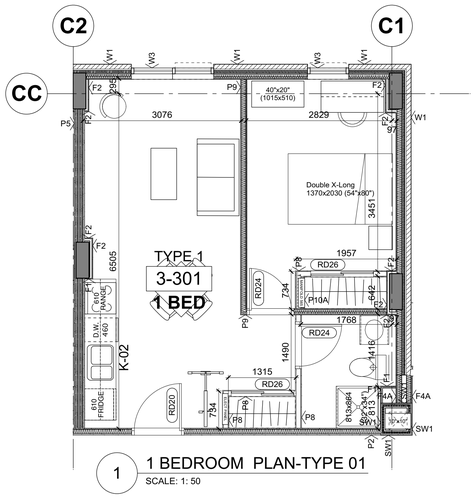
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Typical Unit Plan

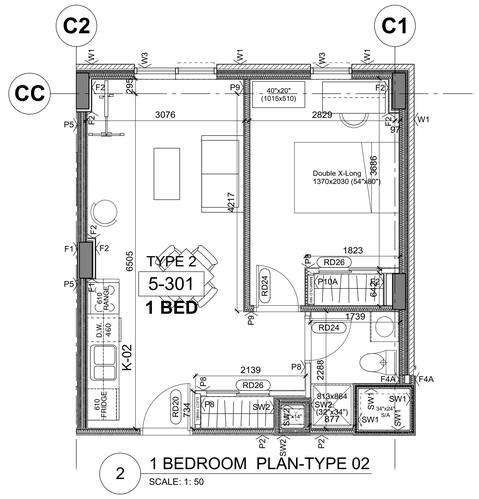
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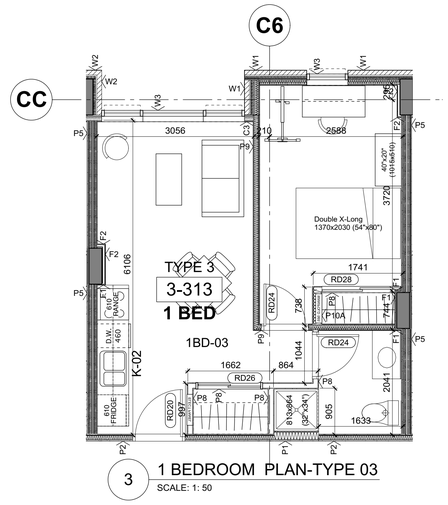
1 1 BEDROOM PLAN-TYPE 01
SCALE: 1: 50

MINISTRY STANDARD
AREA: 40.25 sq m (433.35 sq ft)



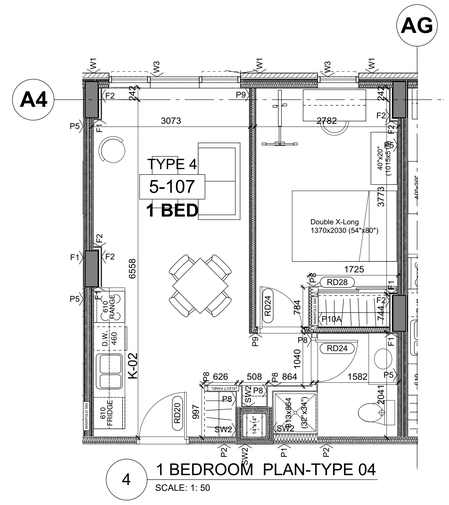
2 1 BEDROOM PLAN-TYPE 02
SCALE: 1: 50

MINISTRY STANDARD
AREA: 39.26 sq m (422.605 sq ft)



3 1 BEDROOM PLAN-TYPE 03
SCALE: 1: 50

MINISTRY STANDARD
AREA: 37.30 sq m (401.497 sq ft)



4 1 BEDROOM PLAN-TYPE 04
SCALE: 1: 50

MINISTRY STANDARD
AREA: 36.84 sq m (396.563 sq ft)

5 1 BEDROOM PLAN-TYPE 05
SCALE: 1: 50

MINISTRY STANDARD
AREA: 35.89 sq m (386.385 sq ft)

6 1 BEDROOM PLAN-TYPE 06
SCALE: 1: 50

MINISTRY STANDARD
AREA: 35.89 sq m (386.385 sq ft)

7 1 BEDROOM PLAN-TYPE 07
SCALE: 1: 50

MINISTRY STANDARD
AREA: 36.18 sq m (389.541 sq ft)

8 1 BEDROOM PLAN-TYPE 08
SCALE: 1: 50

MINISTRY STANDARD
AREA: 34.80 sq m (374.607 sq ft)

9 1 BEDROOM PLAN-TYPE 09
SCALE: 1: 50

MINISTRY STANDARD
AREA: 33.53 sq m (360.997 sq ft)

10 1 BEDROOM PLAN-TYPE 10
SCALE: 1: 50

MINISTRY STANDARD
AREA: 39.28 sq m (422.885 sq ft)

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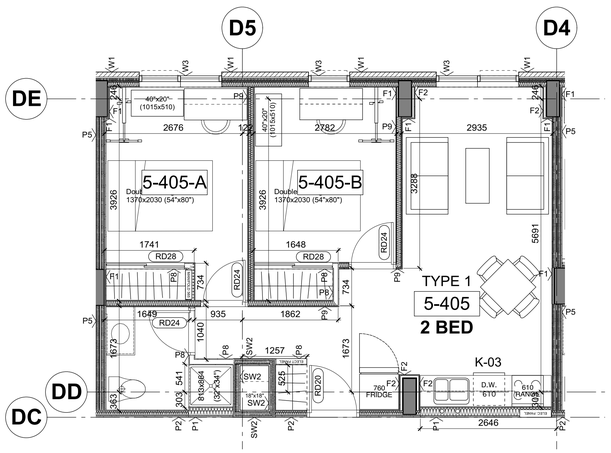
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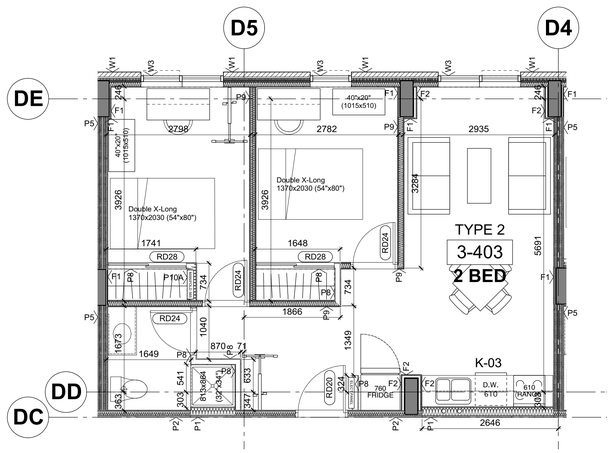
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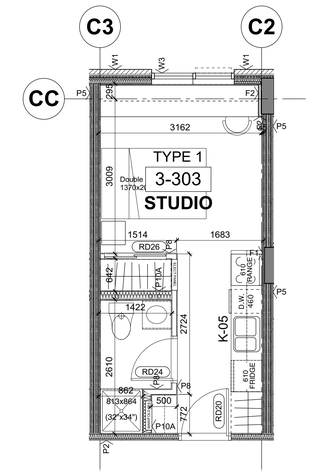
1 2 BEDROOM PLAN-TYPE 01
SCALE: 1: 50

MINISTRY STANDARD
AREA: 52.64 sq m (566.69 sq ft)



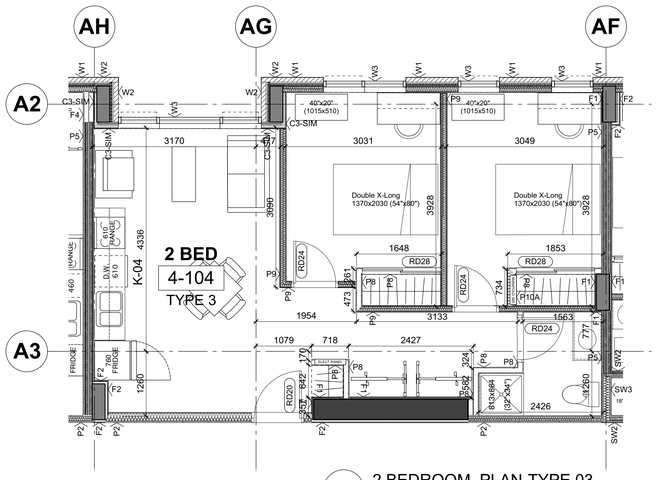
2 2 BEDROOM PLAN-TYPE 02
SCALE: 1: 50

MINISTRY STANDARD
AREA: 53.58 sq m (576.792 sq ft)



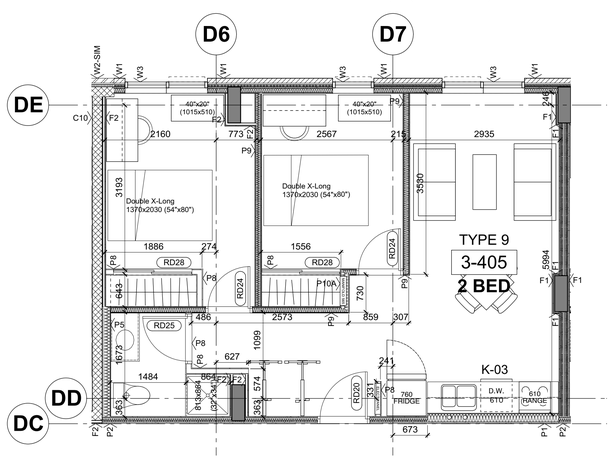
3 STUDIO PLAN-TYPE 01
SCALE: 1: 50

MINISTRY STANDARD
AREA: 21.06 sq m (226.699 sq ft)



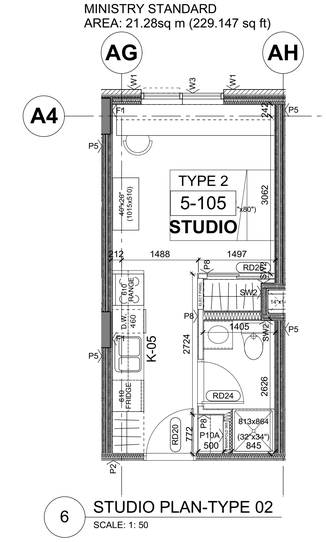
4 2 BEDROOM PLAN-TYPE 03
SCALE: 1: 50

MINISTRY STANDARD
AREA: 57.88 sq m (623.039 sq ft)



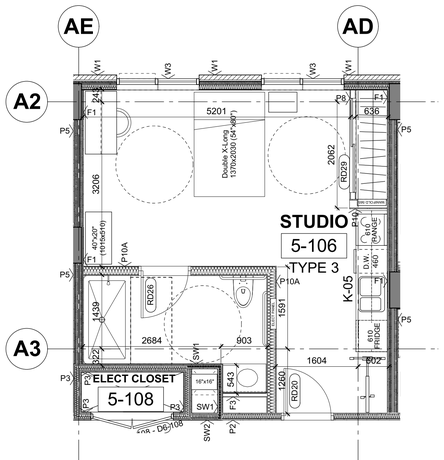
5 2 BEDROOM PLAN-TYPE 04
SCALE: 1: 50

MINISTRY STANDARD
AREA: 53.58 sq m (576.792 sq ft)



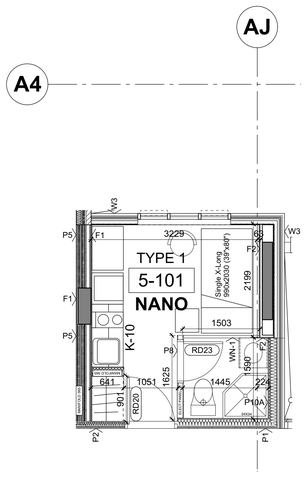
6 STUDIO PLAN-TYPE 02
SCALE: 1: 50

MINISTRY STANDARD
AREA: 21.28sq m (229.147 sq ft)



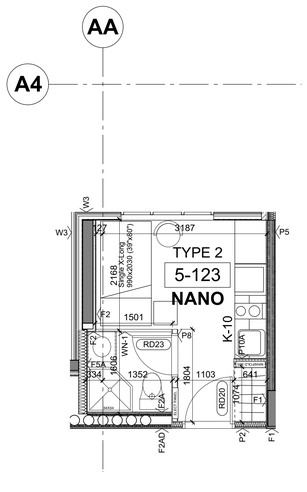
7 STUDIO PLAN-TYPE 03- BARRIER FREE
SCALE: 1: 50

MINISTRY STANDARD
AREA: 33.99 sq m (365.936 sq ft)



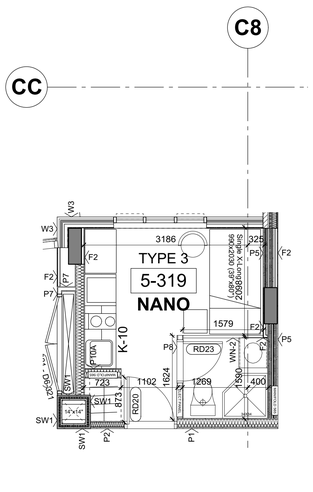
8 NANO SUITE PLAN-TYPE 01
SCALE: 1: 50

MINISTRY STANDARD
AREA: 12.56 sq m (135.201 sq ft)



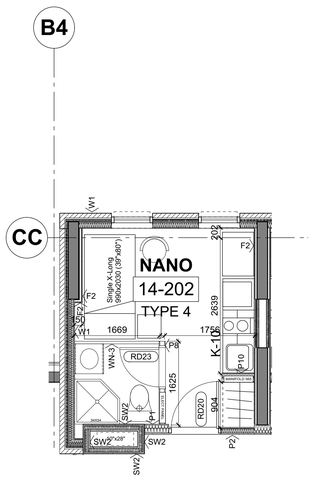
9 NANO SUITE PLAN-TYPE 02
SCALE: 1: 50

MINISTRY STANDARD
AREA: 12.56 sq m (135.201 sq ft)



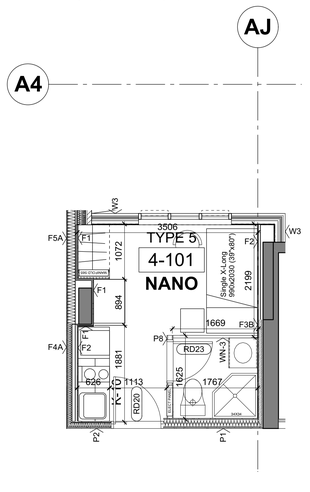
10 NANO SUITE PLAN-TYPE 03
SCALE: 1: 50

MINISTRY STANDARD
AREA: 12.94 sq m (139.324 sq ft)



11 NANO SUITE PLAN-TYPE 04
SCALE: 1: 50

MINISTRY STANDARD
AREA: 13.14 sq m (141.437 sq ft)



11 NANO SUITE PLAN-TYPE 05
SCALE: 1: 50

MINISTRY STANDARD
AREA: 12.91 sq m (138.919 sq ft)

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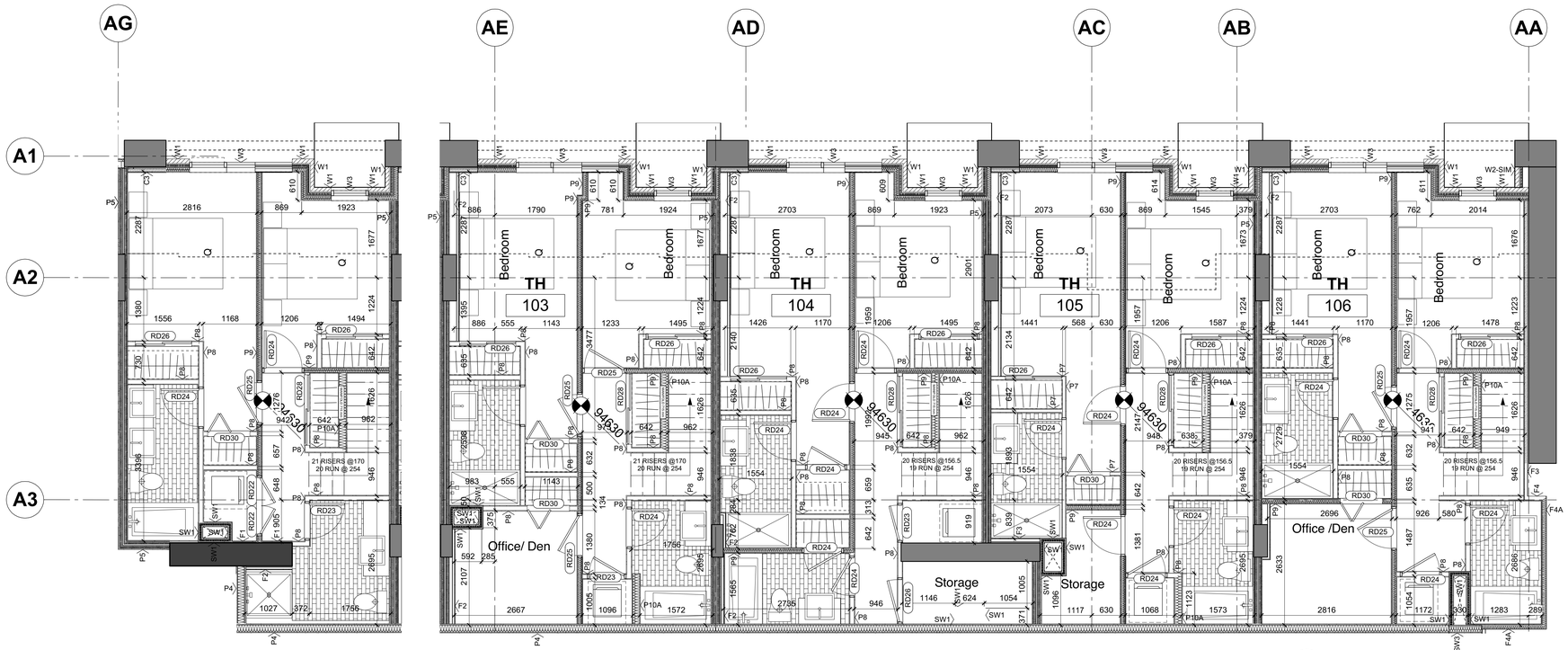
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Typical Unit Plan

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2 BUILDING A - LEVEL 02 PLAN
SCALE: 1: 50

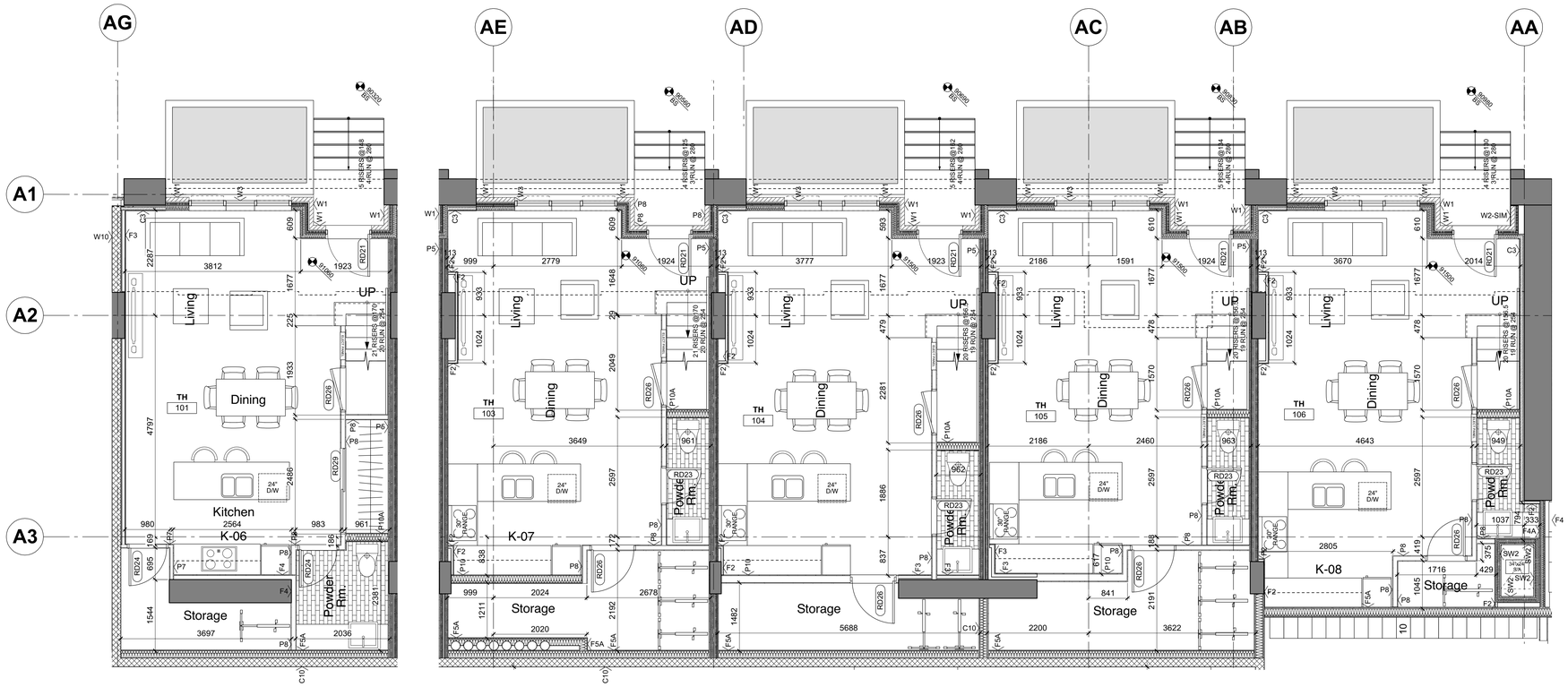
MINISTRY STANDARD
Level 1 - 573 sq ft
Level 2 - 530.6 sq ft
AREA: 1,103.6 sq ft (102.53 sq m)

MINISTRY STANDARD
Level 1 - 563.3 sq ft
Level 2 - 574.3.6 sq ft
AREA: 1,137.6 sq ft (105.7 sq m)

MINISTRY STANDARD
Level 1 - 555.8 sq ft
Level 2 - 581.2 sq ft
AREA: 1,137 sq ft (105.63 sq m)

MINISTRY STANDARD
Level 1 - 559.7 sq ft
Level 2 - 552.9 sq ft
AREA: 1,112.6 sq ft (103.36 sq m)

MINISTRY STANDARD
Level 1 - 549.6 sq ft
Level 2 - 583.3 sq ft
AREA: 1,132.9 sq ft (105.25 sq m)



1 BUILDING A - LEVEL 01 PLAN
SCALE: 1:50

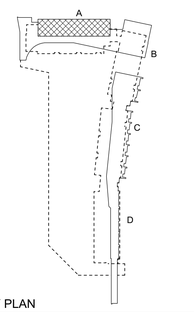
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GAGE SOUTH RESIDENCE

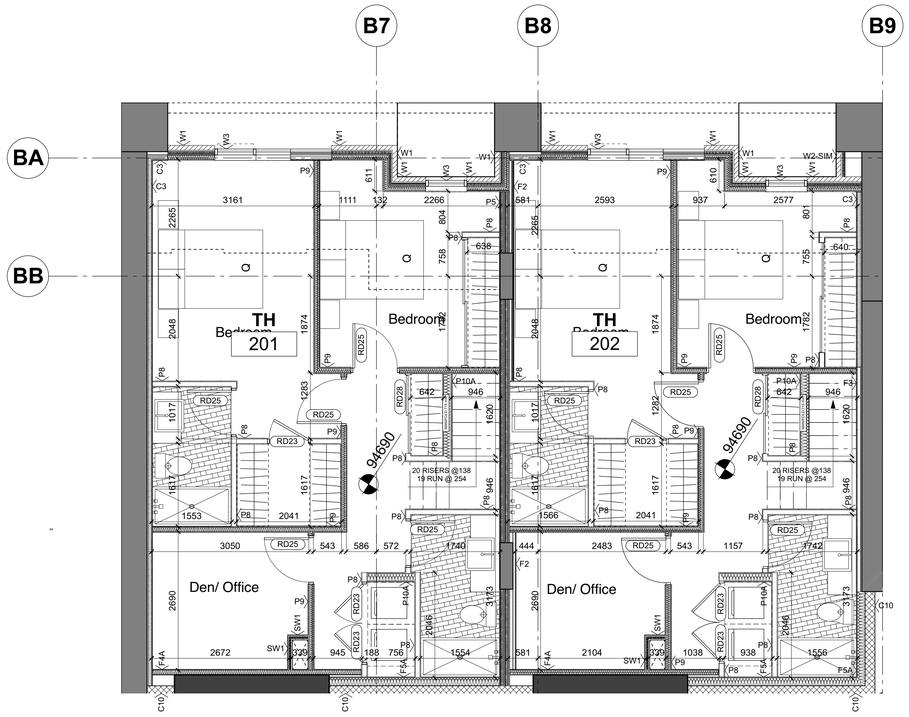
5960 Student Union Boulevard, Vancouver, BC V6T 1Z1

Building A
Enlarge Townhouse Plans
Level 01 & 02

DRAWN: MT CHECKED: DJC

A805

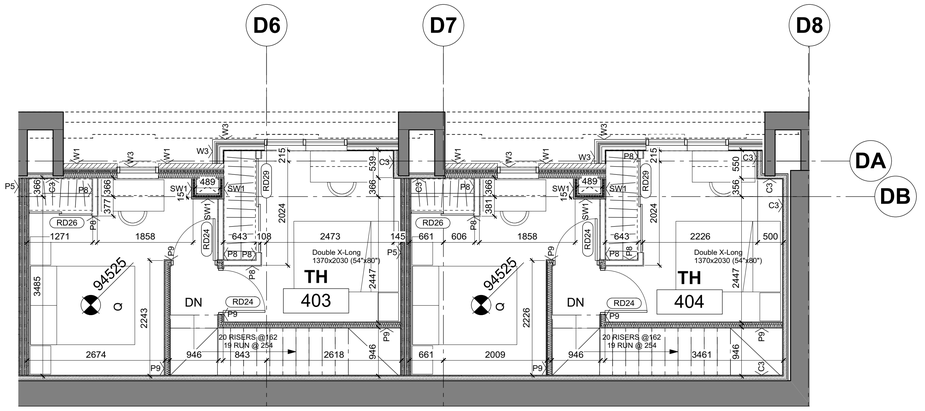
04236 / 04473



1 BUILDING B - LEVEL 02 PLAN
SCALE: 1: 50

MINISTRY STANDARD
Level 1 - 697.3sq ft
Level 2 - 702.1 sq ft
AREA: 1,399.4 sq ft (130.0 sq m)

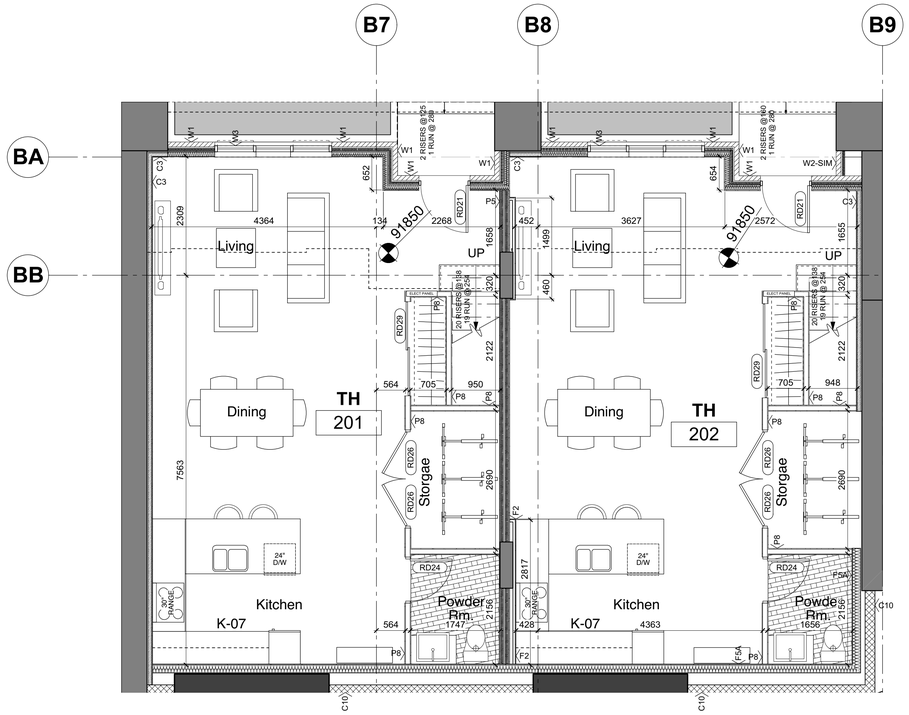
MINISTRY STANDARD
Level 1 - 692.2 sq ft
Level 2 - 699.5 sq ft
AREA: 1,391.7 sq ft (129.3 sq m)



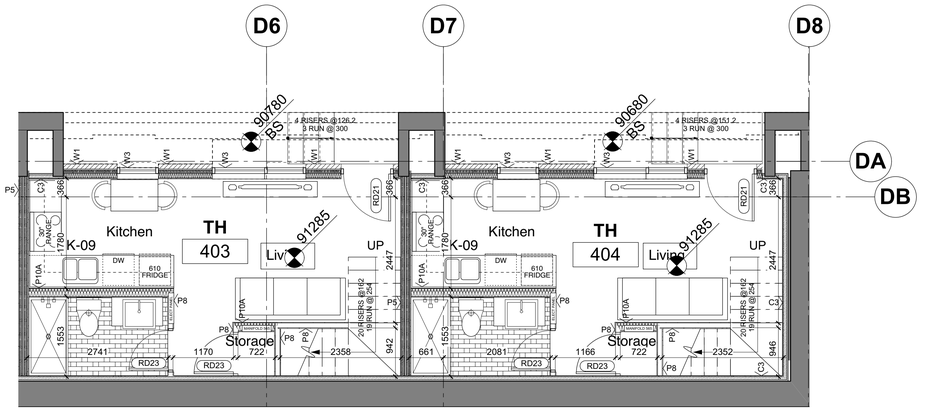
2 BUILDING D - LEVEL 02 PLAN
SCALE: 1: 50

MINISTRY STANDARD
Level 1 - 296.8 sq ft
Level 2 - 315.8 sq ft
AREA: 612.6 sq ft (56.91 sq m)

MINISTRY STANDARD
Level 1 - 296.6 sq ft
Level 2 - 313.9 sq ft
AREA: 610.5 sq ft (56.72 sq m)



3 BUILDING B - LEVEL 01 PLAN
SCALE: 1: 50



4 BUILDING D - LEVEL 01 PLAN
SCALE: 1: 50

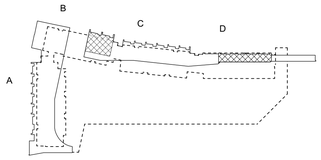
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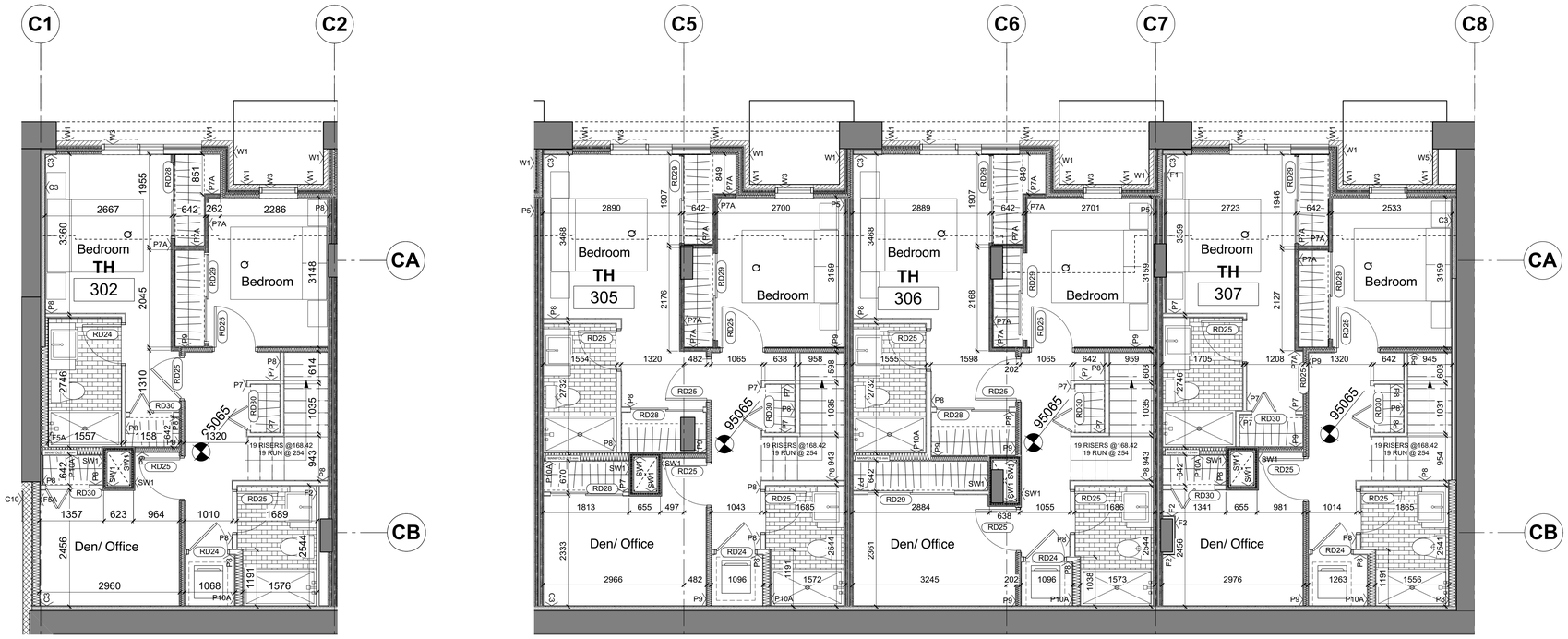
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Building B & D
Enlarge Townhouse Plans
Level 01 & 02

DRAWN: MT CHECKED: DJC

A806

04236 / 04473



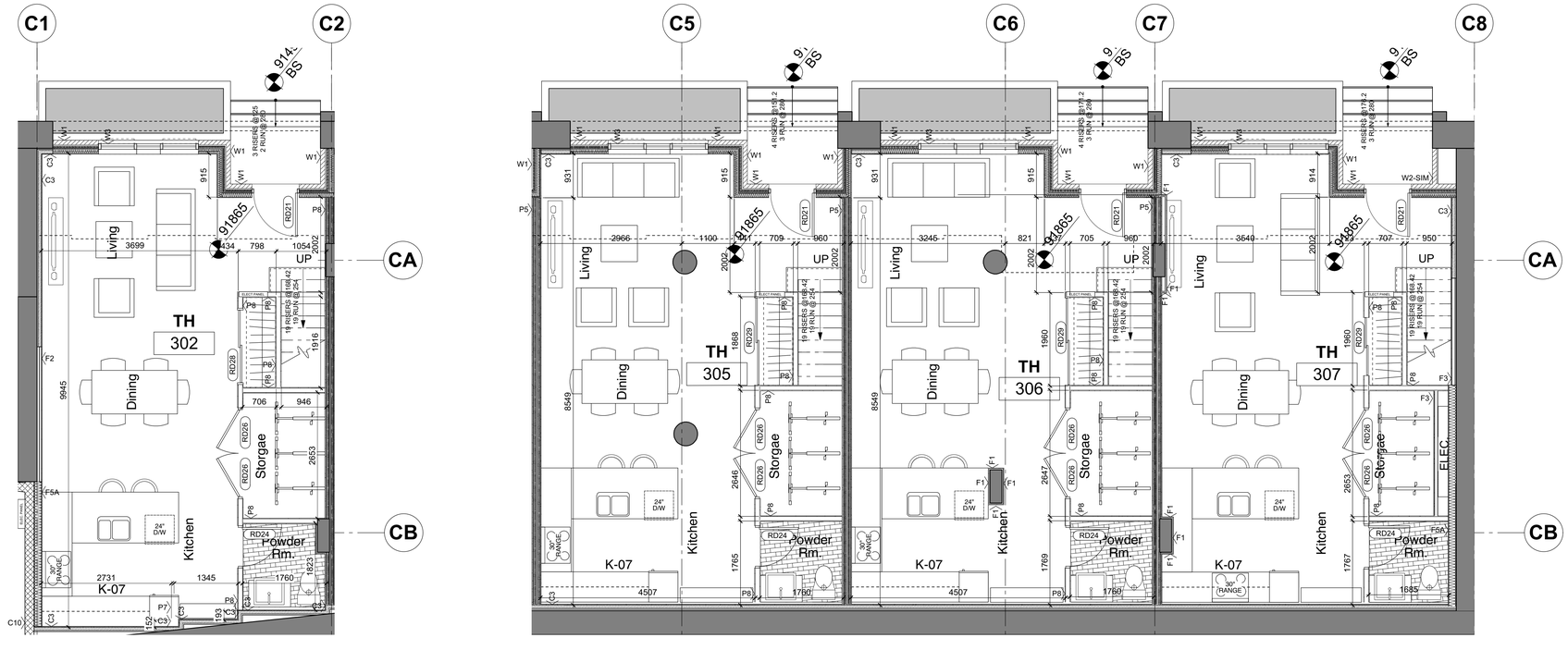
2 BUILDING C - LEVEL 02 PLAN
SCALE: 1: 100

MINISTRY STANDARD
Level 1 - 602 sq ft
Level 2 - 578.4 sq ft
AREA: 1,180.4 sq ft (109.66 sq m)

MINISTRY STANDARD
Level 1 - 619.4 sq ft
Level 2 - 621.6 sq ft
AREA: 1,241 sq ft (115.3 sq m)

MINISTRY STANDARD
Level 1 - 619.4 sq ft
Level 2 - 620.5 sq ft
AREA: 1,239.9 sq ft (115.2 sq m)

MINISTRY STANDARD
Level 1 - 587.7 sq ft
Level 2 - 590 sq ft
AREA: 1177.7 sq ft (109.41 sq m)



1 BUILDING C - LEVEL 01 PLAN
SCALE: 1: 50

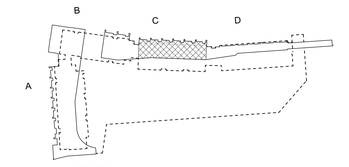
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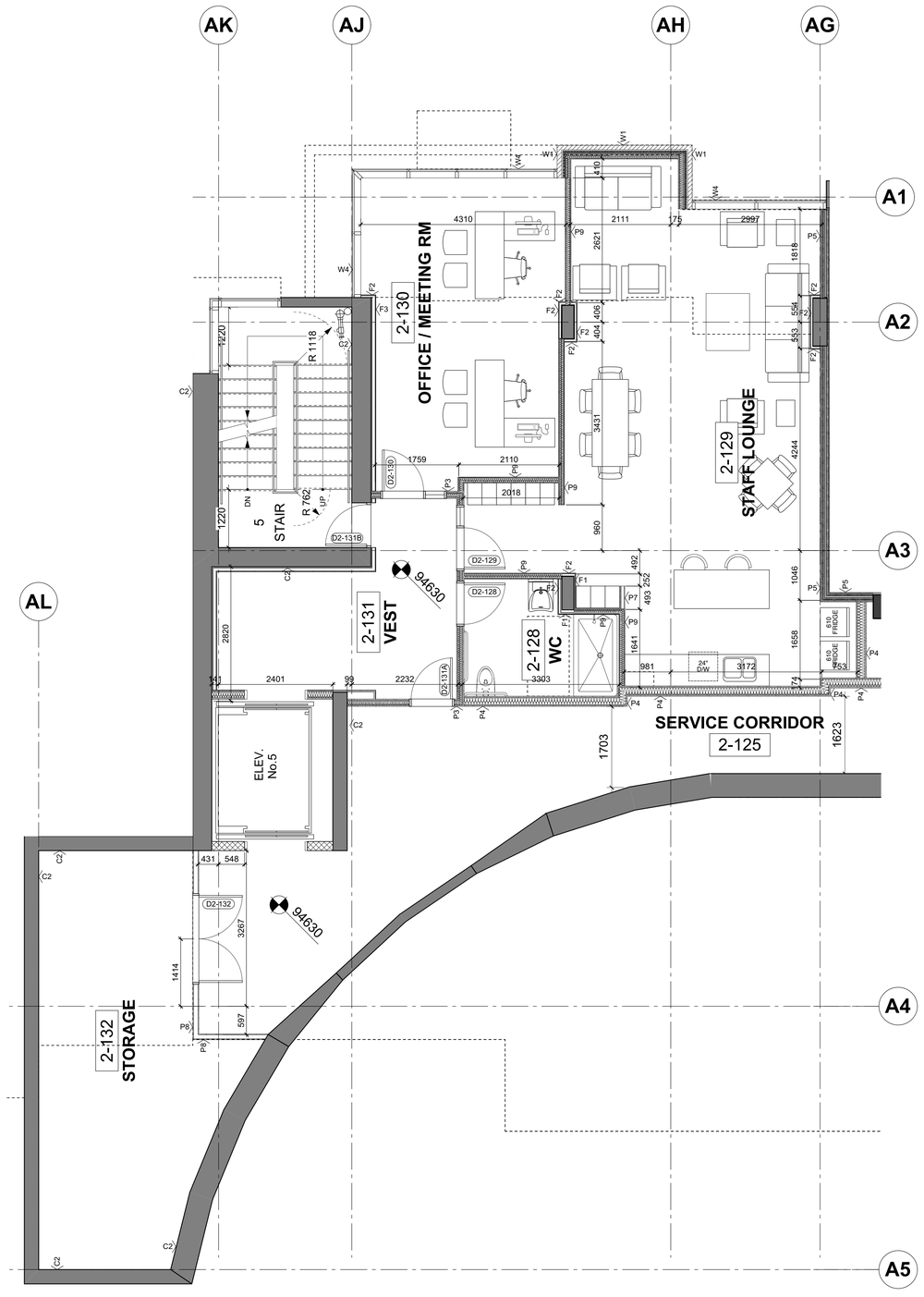
5960 Student Union Boulevard, Vancouver, BC V6T 1Z1

Building C
Enlarge Townhouse Plans
Level 01&02

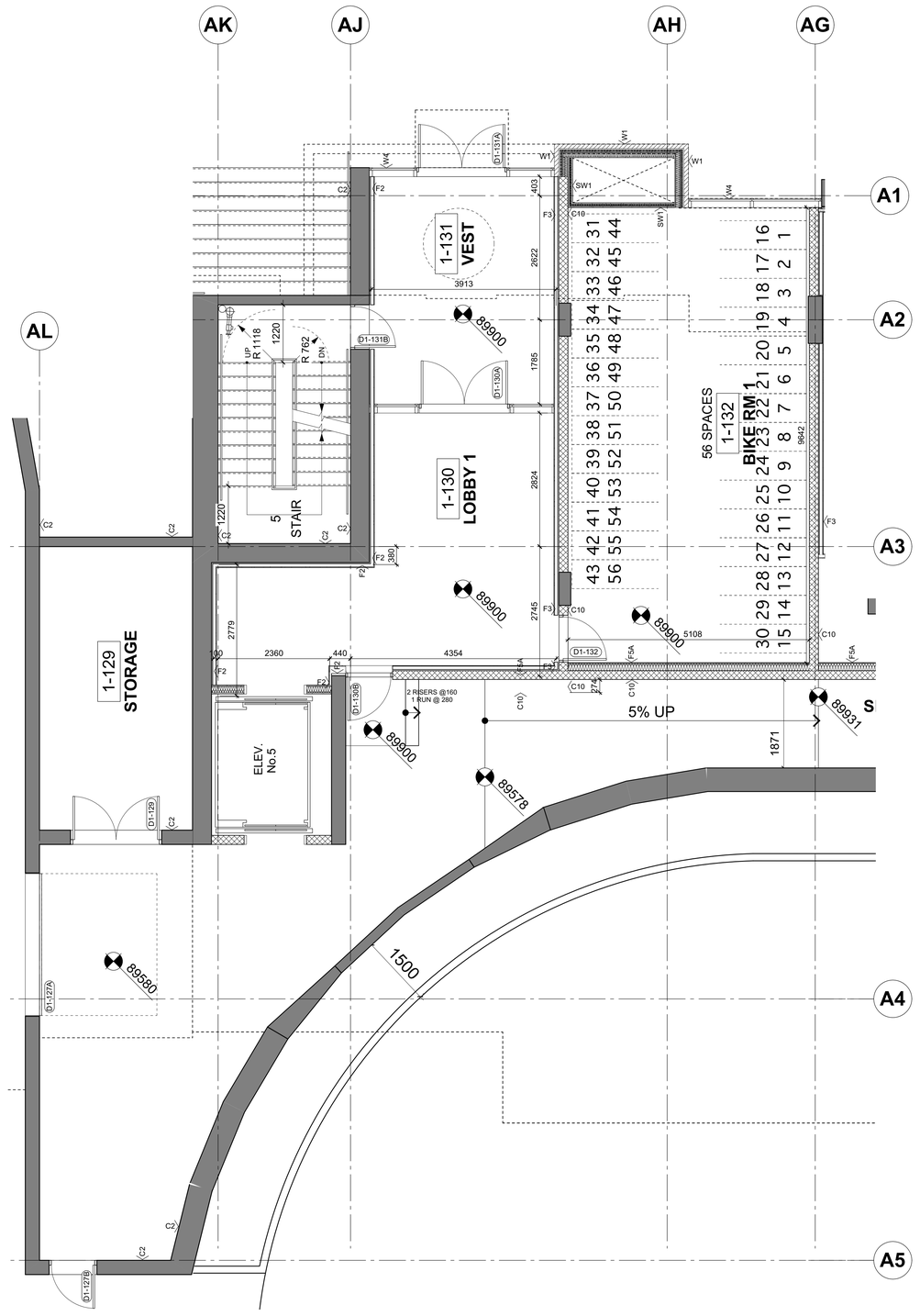
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A807

04236 / 04473



2 BUILDING A - LEVEL 02 PLAN
SCALE: 1: 50



1 BUILDING A - LEVEL 01 PLAN
SCALE: 1: 50

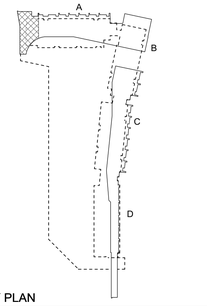
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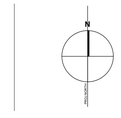
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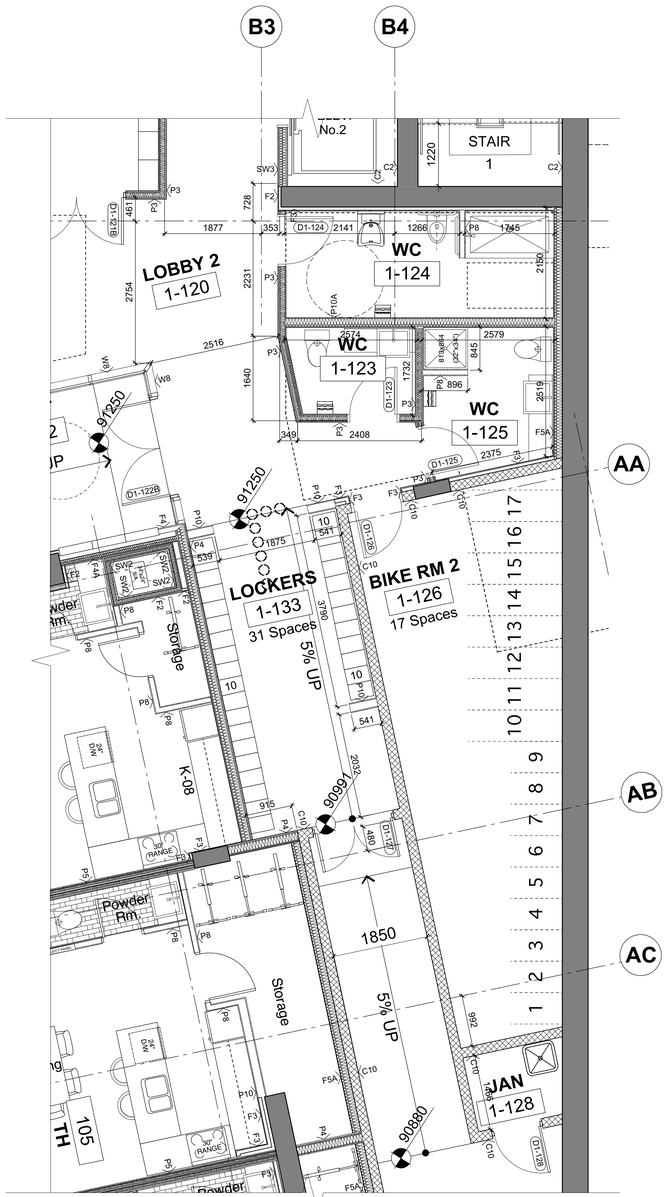
5960 Student Union Boulevard, Vancouver, BC V6T 1Z1

Building A
Enlarged Plans

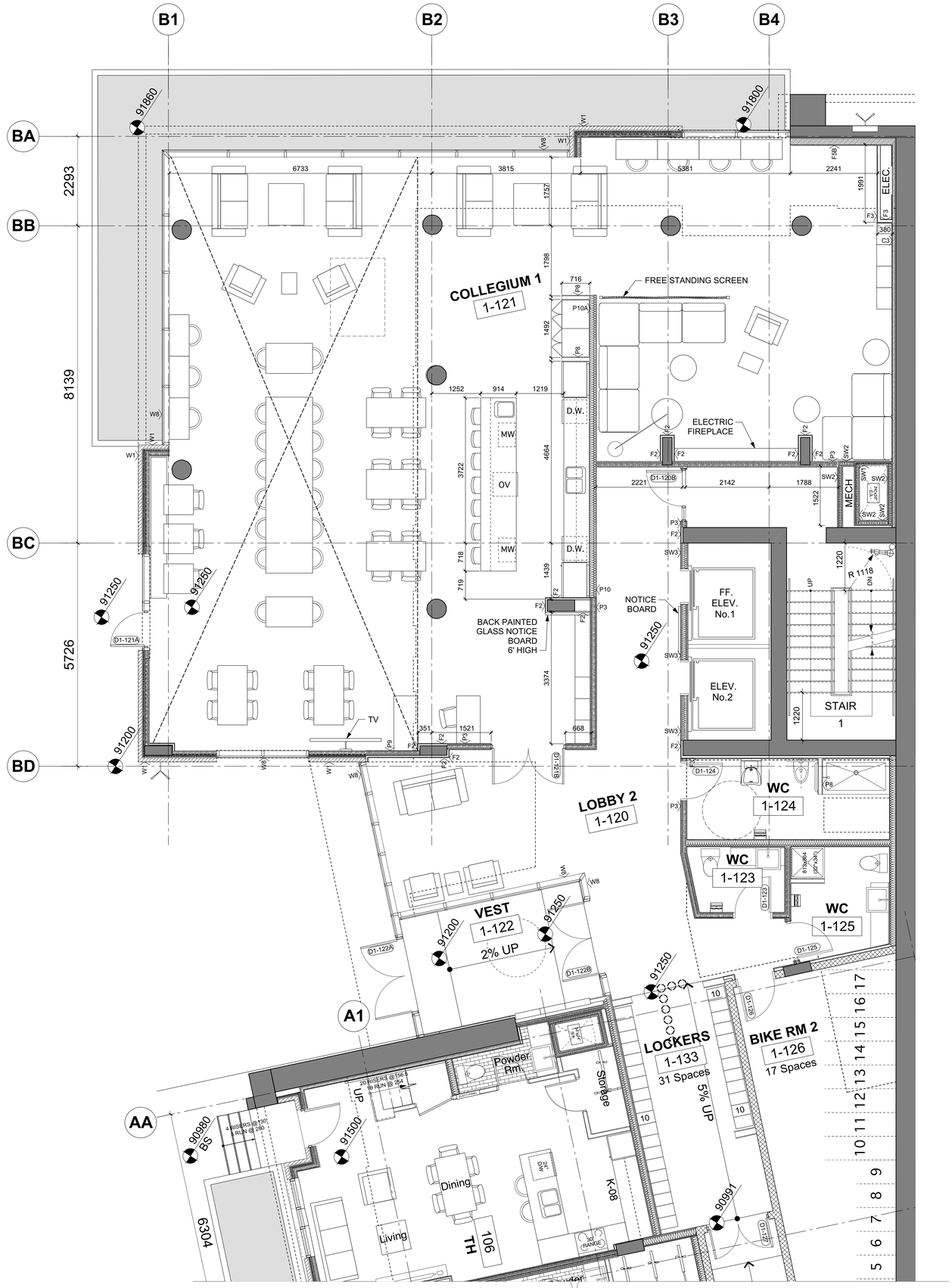
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A811

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2 BUILDING A - BIKE STORAGE ROOM 2
SCALE: 1: 50



1 BUILDING A & B - LEVEL 01 PLAN
SCALE: 1: 50

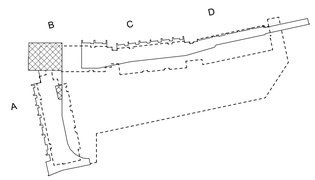
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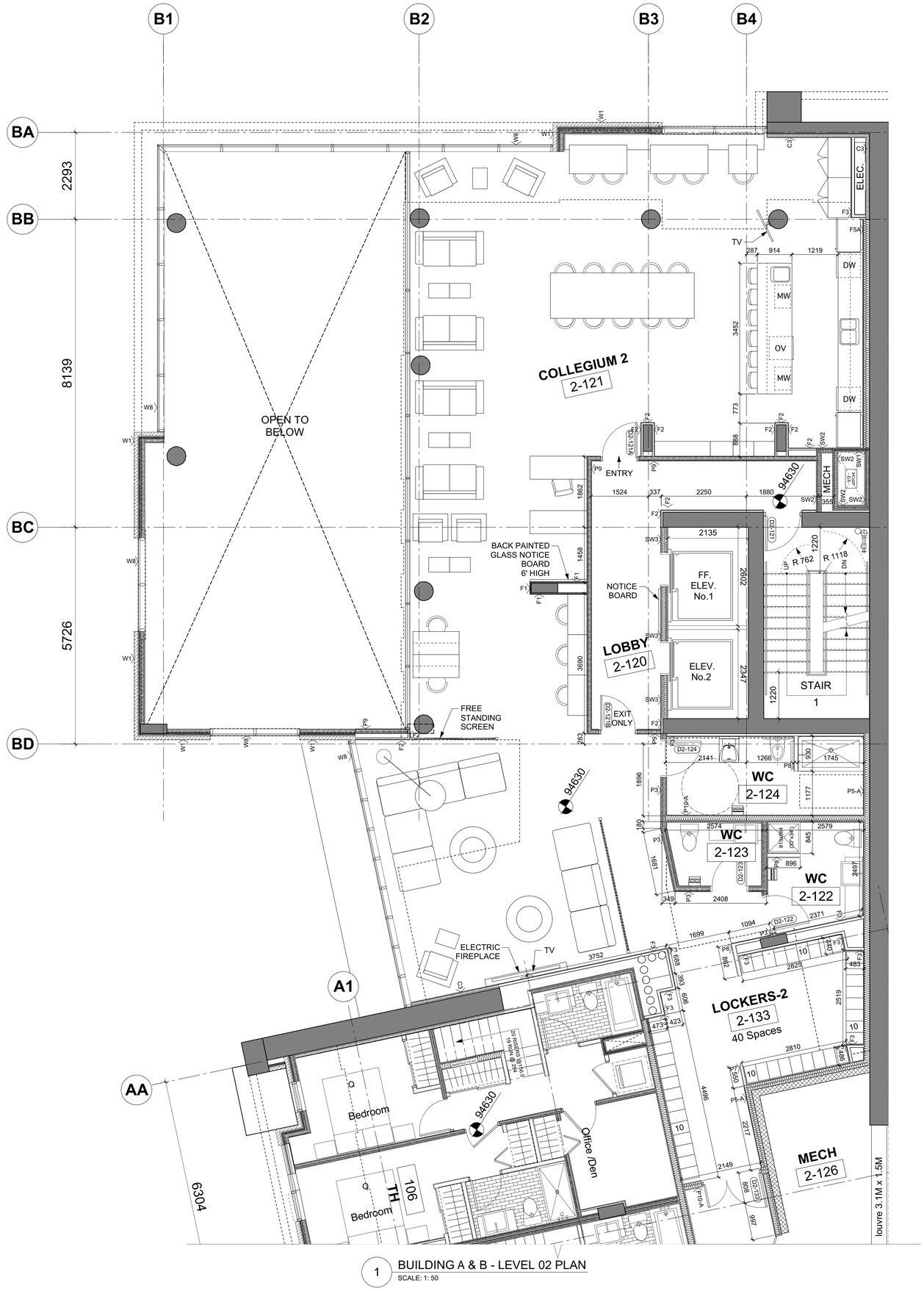
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Building A & B
Collegium Enlarged Plan
Level 01

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A812

04236 / 04473



1 BUILDING A & B - LEVEL 02 PLAN
SCALE: 1: 50

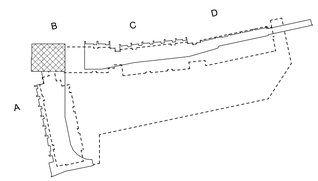
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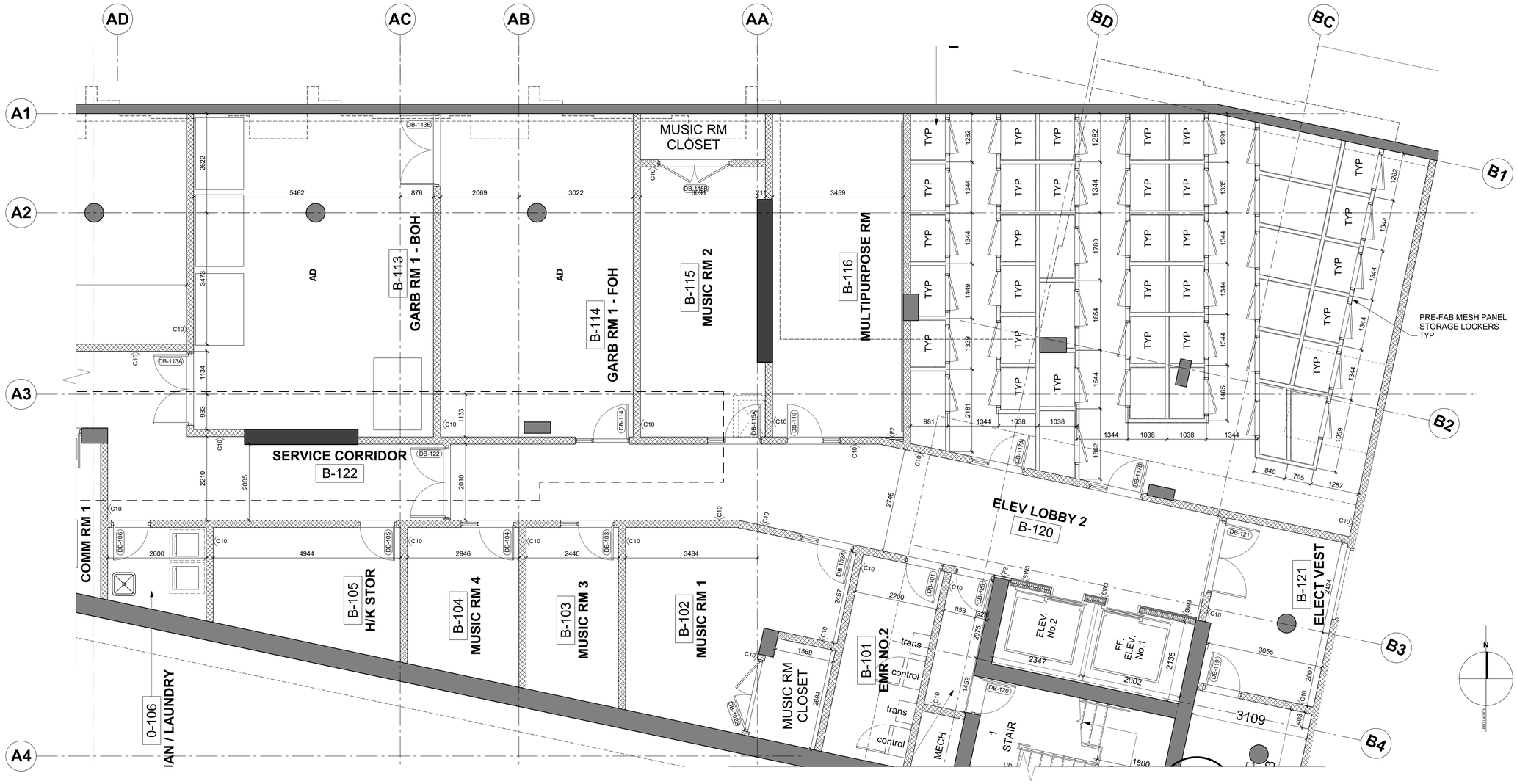
5960 Student Union Boulevard, Vancouver, BC V6T 1Z1

Building A & B
Enlarged Collegium Plan
Level 2

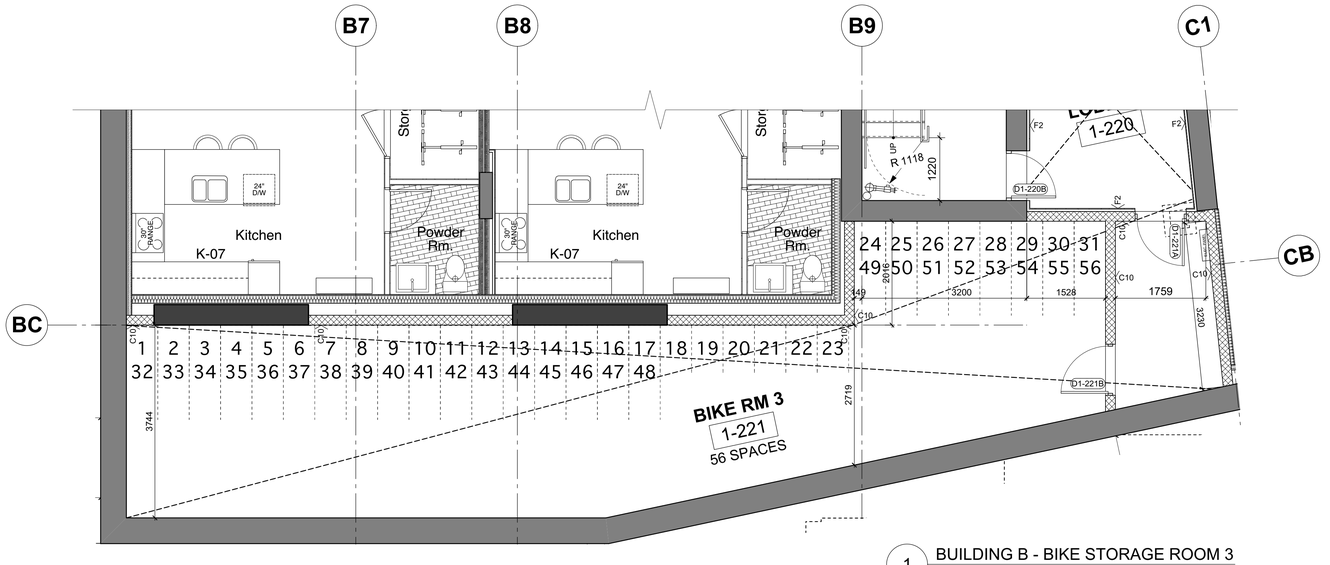
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A813

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2 BUILDING A & B - LEVEL B1 PLAN
SCALE: 1: 50



1 BUILDING B - BIKE STORAGE ROOM 3
SCALE: 1: 50

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Building A & B Enlarged Plans

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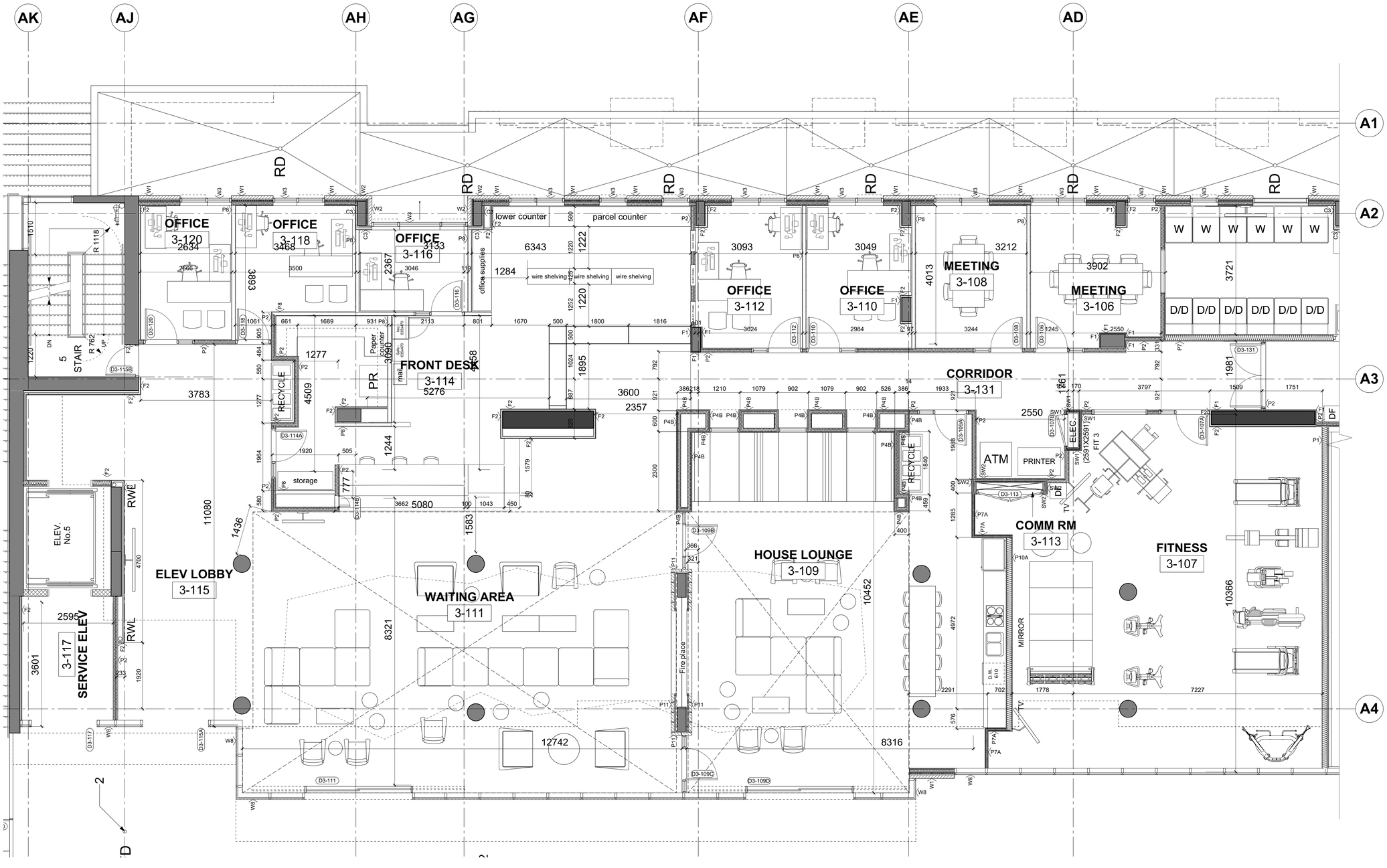
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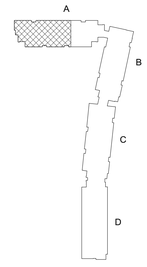
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1 LEVEL 03 OVERALL PLAN
SCALE: 1:50



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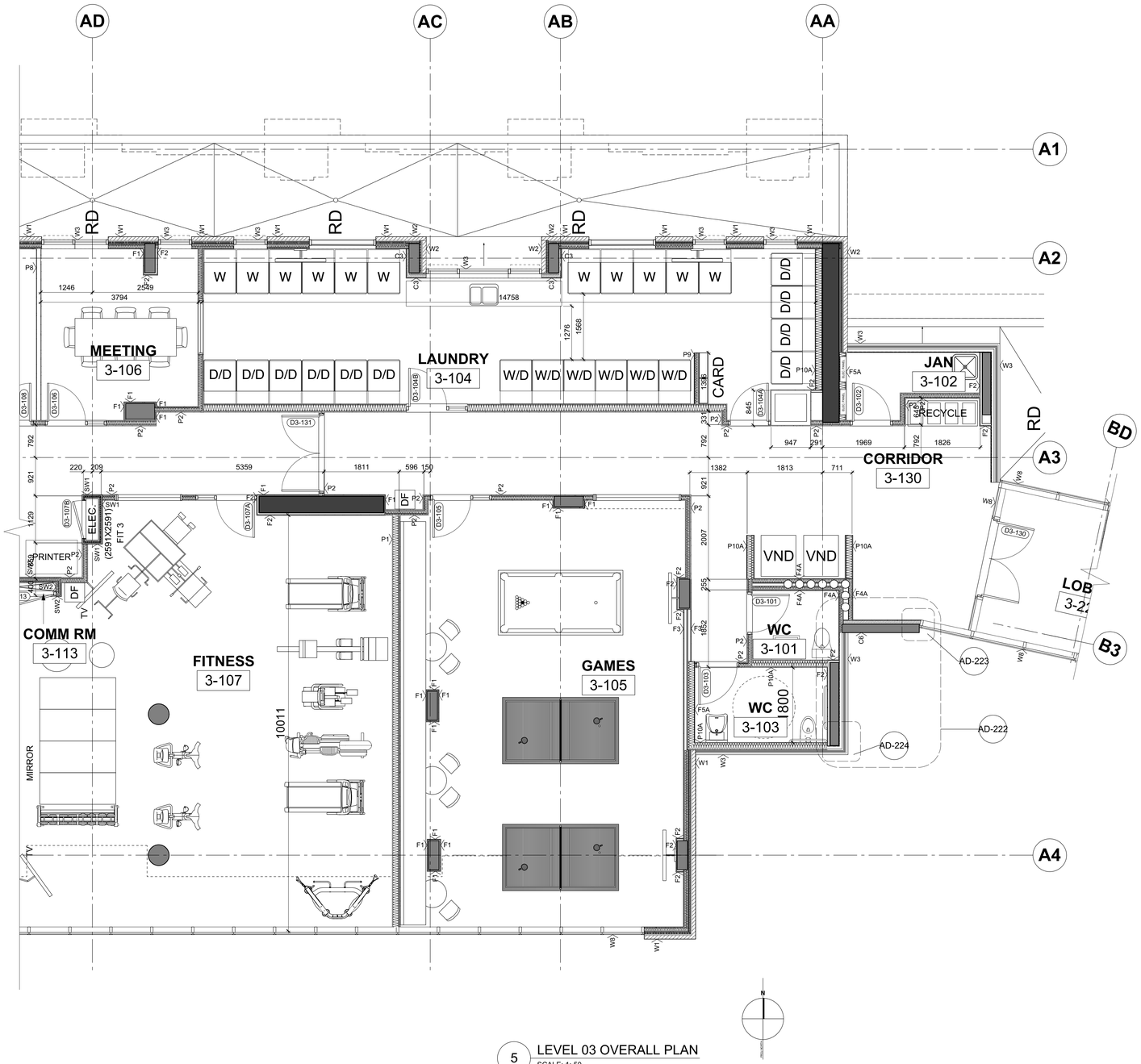
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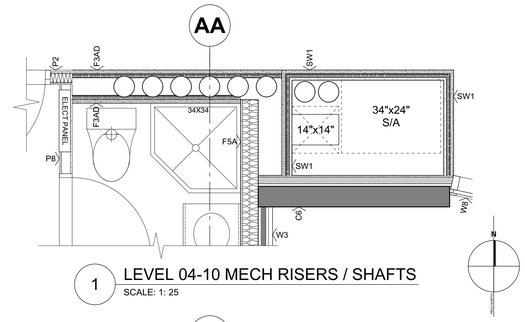
Building A
Enlarged Amenity Plan
Level 03

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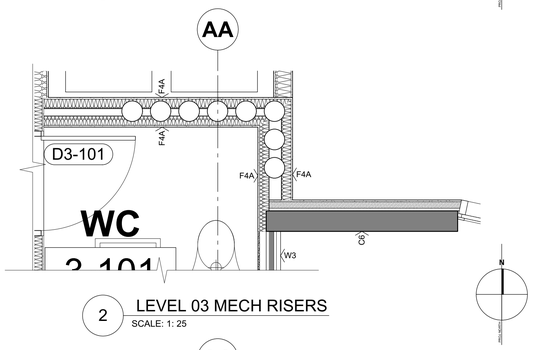
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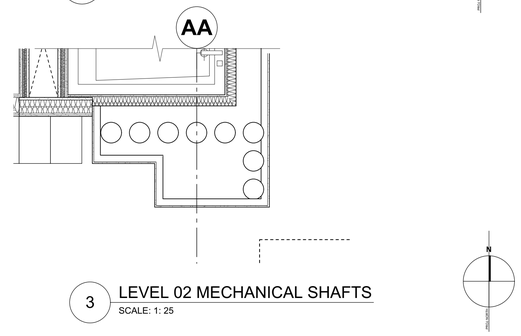
5 LEVEL 03 OVERALL PLAN
SCALE: 1: 50



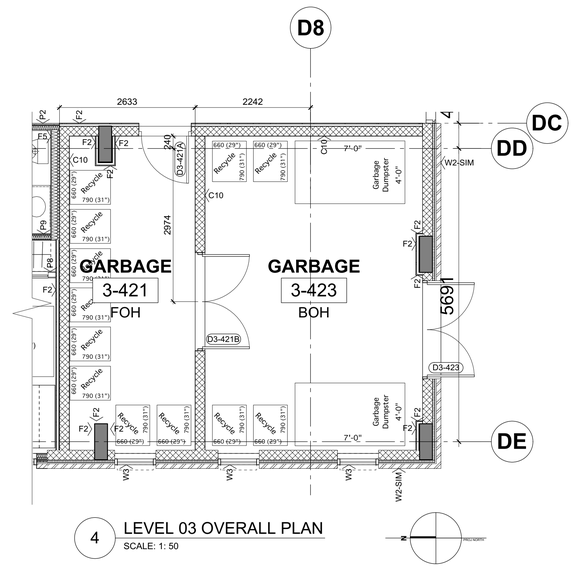
1 LEVEL 04-10 MECH RISERS / SHAFTS
SCALE: 1: 25



2 LEVEL 03 MECH RISERS
SCALE: 1: 25



3 LEVEL 02 MECHANICAL SHAFTS
SCALE: 1: 25



4 LEVEL 03 OVERALL PLAN
SCALE: 1: 50

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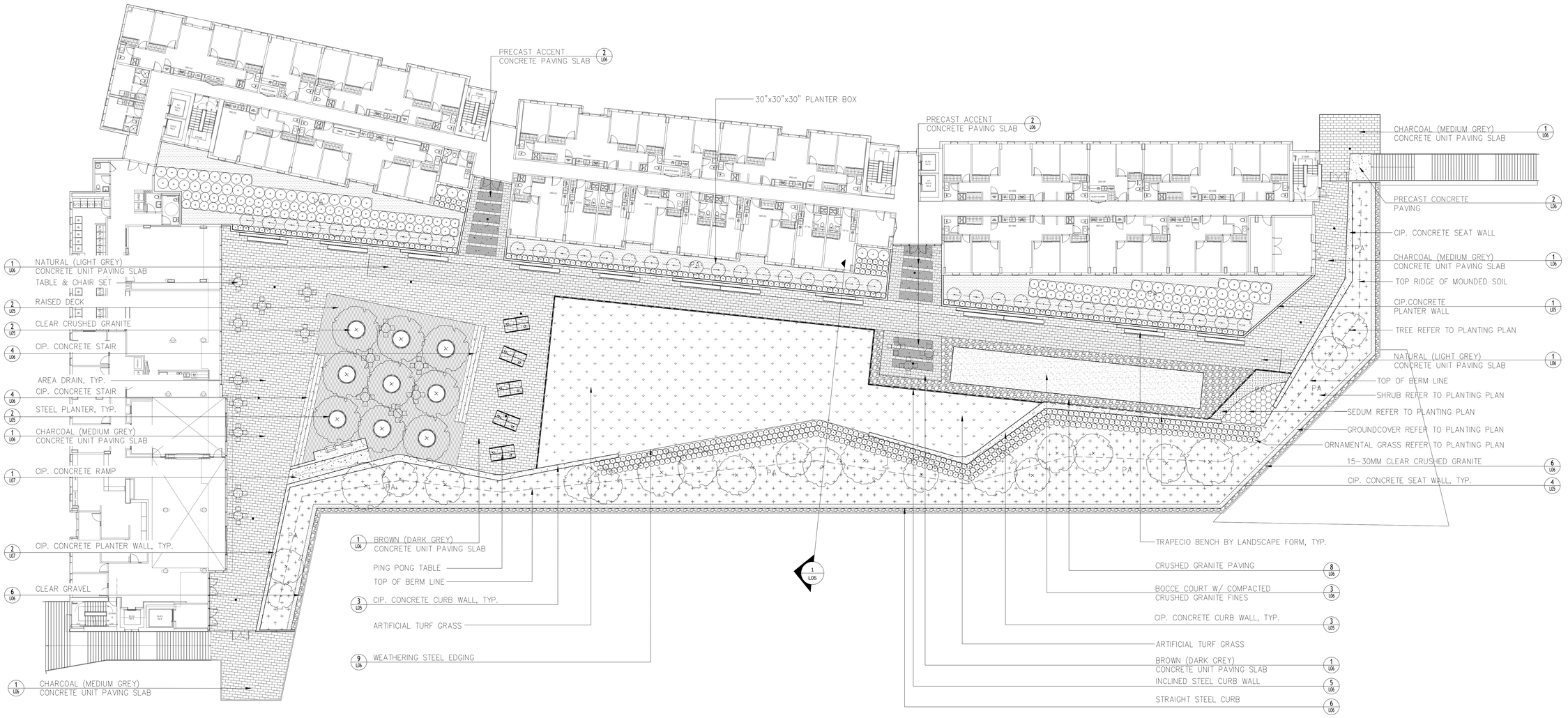
UBC EXCHANGE
GAGE SOUTH RESIDENCE

5960 Student Union Boulevard, Vancouver, BC V6T 1Z1

Enlarged Plans

DRAWN: MT CHECKED: DJC

A816



1 L01 SITE & MATERIAL PLAN
scale 1:200

24" X 12" X 2" TEXADA HYDRAPRESSED SLABS BY ABBOTSFORD CONCRETE PRODUCTS OR APPROVED EQUAL, NATURAL (LIGHT GRAY) COLOR

24" X 12" X 2" TEXADA HYDRAPRESSED SLABS BY ABBOTSFORD CONCRETE PRODUCTS OR APPROVED EQUAL, CHARCOAL (MEDIUM GRAY) COLOR

24" X 12" X 2" TEXADA HYDRAPRESSED SLABS BY ABBOTSFORD CONCRETE PRODUCTS OR APPROVED EQUAL, BROWN (DARK GRAY) COLOR

CIP. CONCRETE

PRECAST ACCENT CONCRETE

COMPACTED CRUSHED GRANITE FIN

15-30MM CLEAR CRUSHED GRANIT

RESYSTA

PA PLANTING AREA

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GAGE SOUTH RESIDENCE

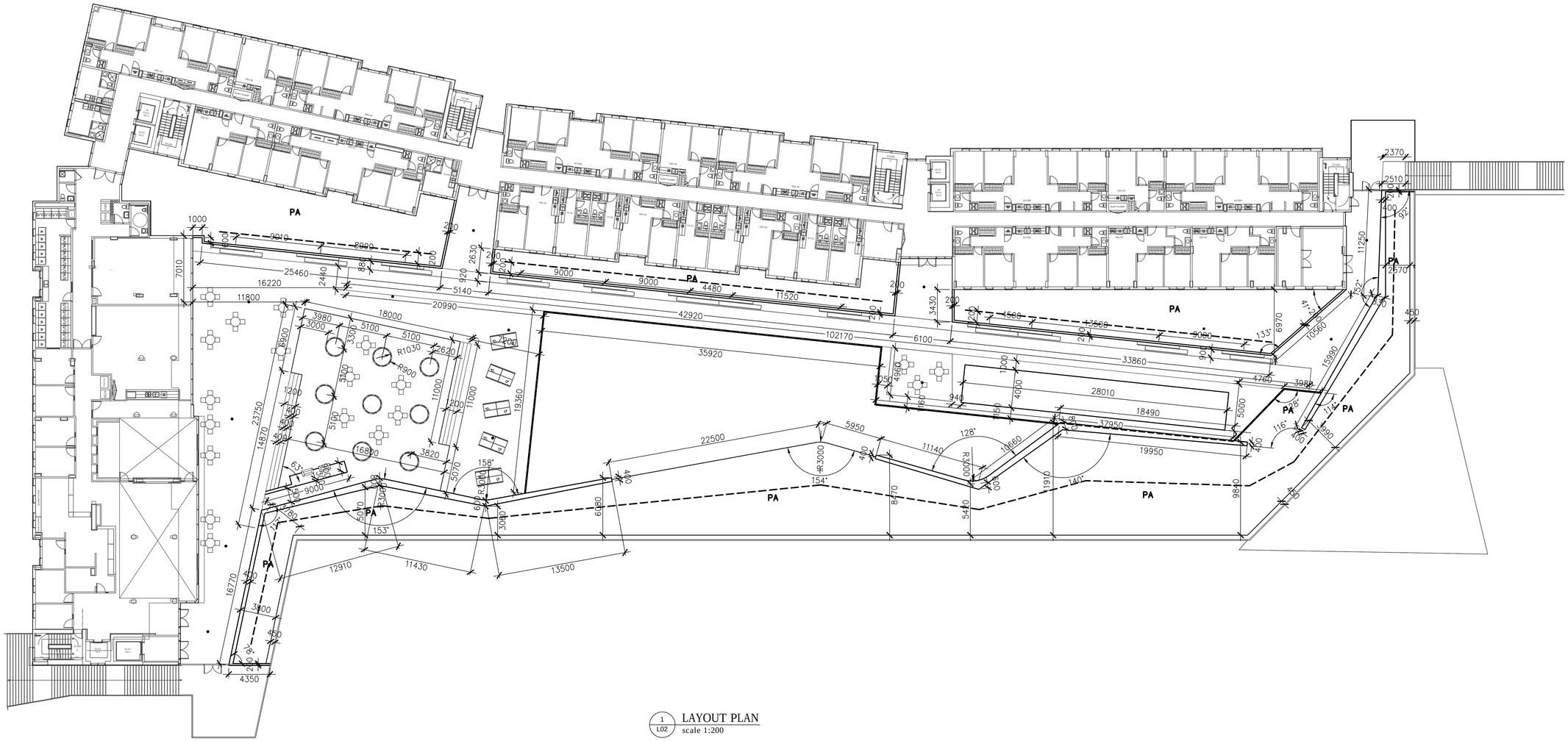
5960 Student Union Boulevard, Vancouver, BC V6T 1Z1

LANDSCAPE
SITE & MATERIAL
PLAN

DRAWN: YY CHECKED: MT

L01

04473V



1 L02 LAYOUT PLAN
scale 1:200

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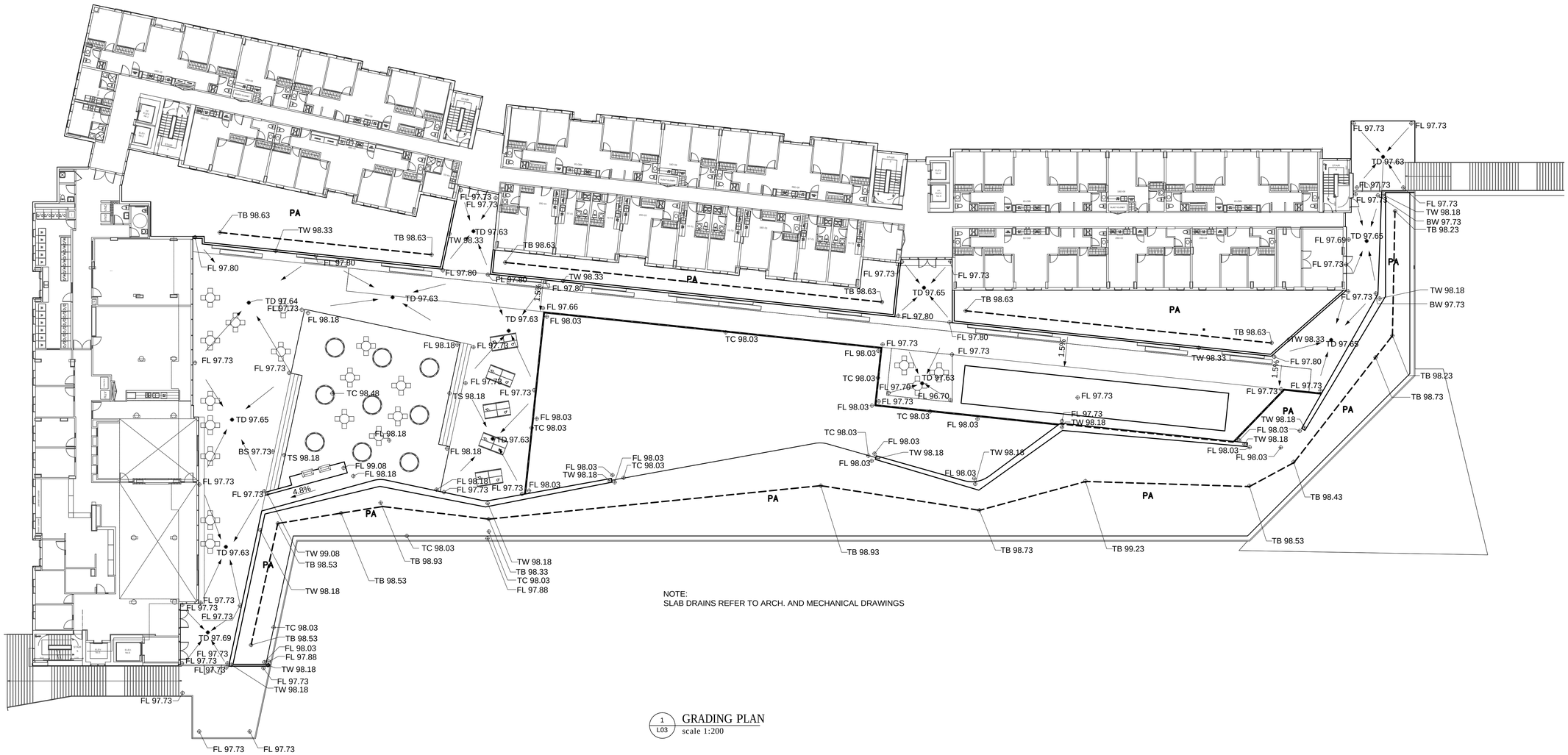
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LANDSCAPE
LAYOUT PLAN

DRAWN: YY CHECKED: MT

L02

04473V



NOTE:
SLAB DRAINS REFER TO ARCH. AND MECHANICAL DRAWINGS

1 / L03 GRADING PLAN
scale 1:200

LEGEND

FL 97.73	SPOT LEVEL
2% ►	SLOPE
BS	BOTTOM OF STAIR
BW	BOTTOM OF WALL
FL	FINISH LEVEL
TB	TOP OF BERM
TC	TOP OF CURB WALL
TD	TOP OF DRAIN
TS	TOP OF STAIR
TW	TOP OF WALL
PA	PLANTING AREA

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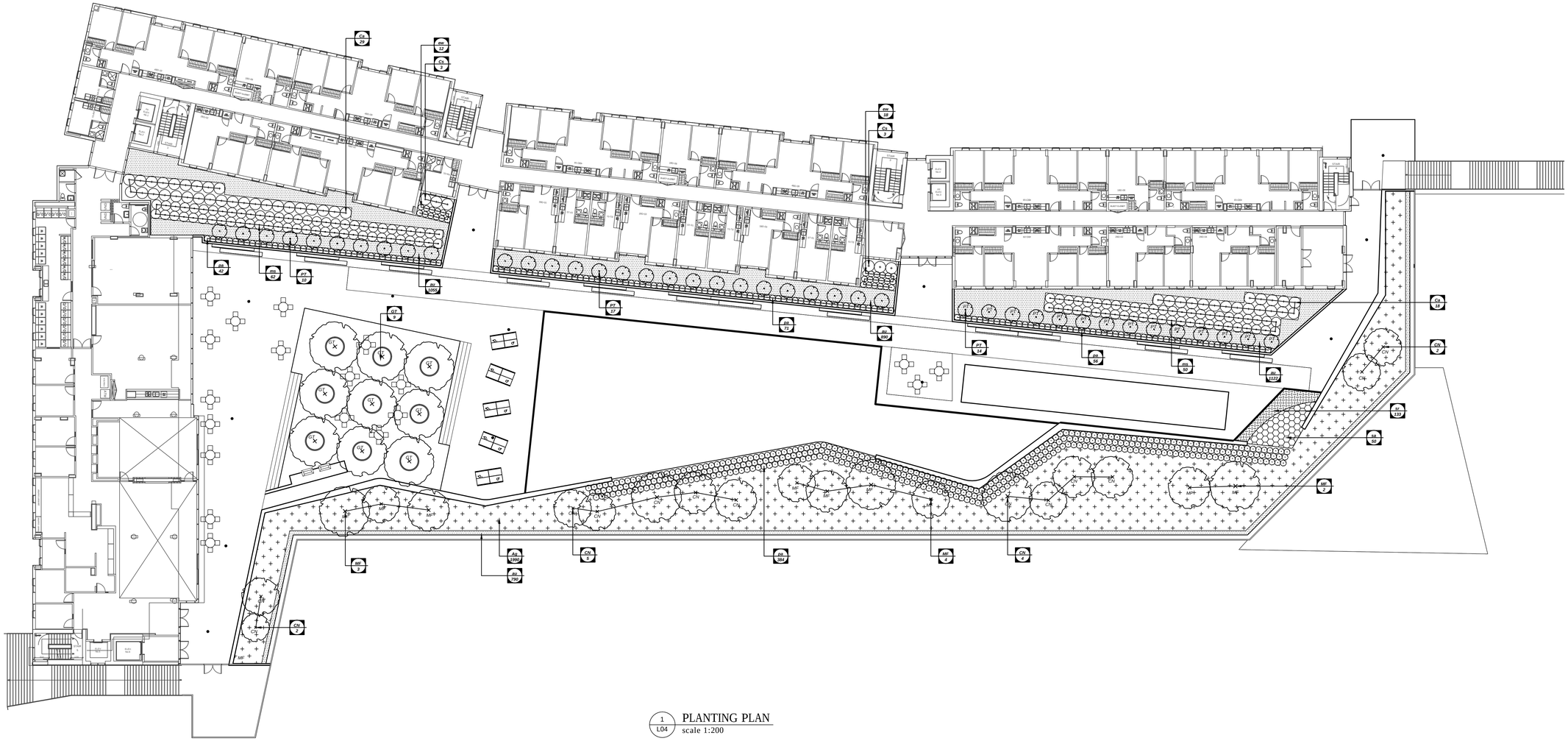
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LANDSCAPE GRADING PLAN

DRAWN: YY CHECKED: MT

L03

04473V



1 L04 PLANTING PLAN
scale 1:200

PLANT LIST

KEY	QTY	BOTANICAL NAME	COMMON NAME	SIZE
TREES				
CN	13	CORNUS NUTTALLII X KOUSA 'STARLIGHT'	STARLIGHT Dogwood	6cm CAL. WB
GT	9	GLEDITSIA TRIACANTHOS VAR. INERMIS 'HALKA'	HALKA HONEYLOCUST	8cm CAL. WB
MF	9	MALUS FUSCA.	CRABB APPLE	6cm CAL. WB
PT	41	POPULUS TREMULOIDES 'ERECTA'	SWEDISH ASPEN	6cm CAL. WB
SHRUBS				
Cs	6	CORNUS SERICEA FLAVIRAMEA	YELLOW TWIG DOGWOOD	#2 POT 1000mm O.C.
Cs	47	CORNUS SERICEA 'Farrow' ARCTIC FIRE	RED TWIG DOGWOOD	#2 POT 1000mm O.C.
Ag	1990	AZALEA 'GRARD'S FUCHSIA'	PINK EVERY GREEN AZALEA	#2 POT 600mm O.C.
PERENNIALS AND GROUNDCOVERS				
au	3857	ARCTOSTAPHYLOS UVA-URSI	KINNIKINNICK	#1 POT 450mm O.C.
ms	112	MISCANTHUS SINENSIS GRACILLIMUS	MAIDEN GRASS	#1 POT 900mm O.C.
pa	553	PENNISETUM ALOPECUROIDES	FOUNTAIN GRASS	#1 POT 600mm O.C.
so	50	SEDUM 'AUTUMN JOY'	AUTUMN JOY	#1 POT 600mm O.C.
sr	133	SEDUM RUPESTRE 'ANGELINA'	STONECROP	3" POT 300mm O.C.
ew	30	EUPHORBIA WULFENII	EUPHORBIA	#1 POT 600mm O.C.

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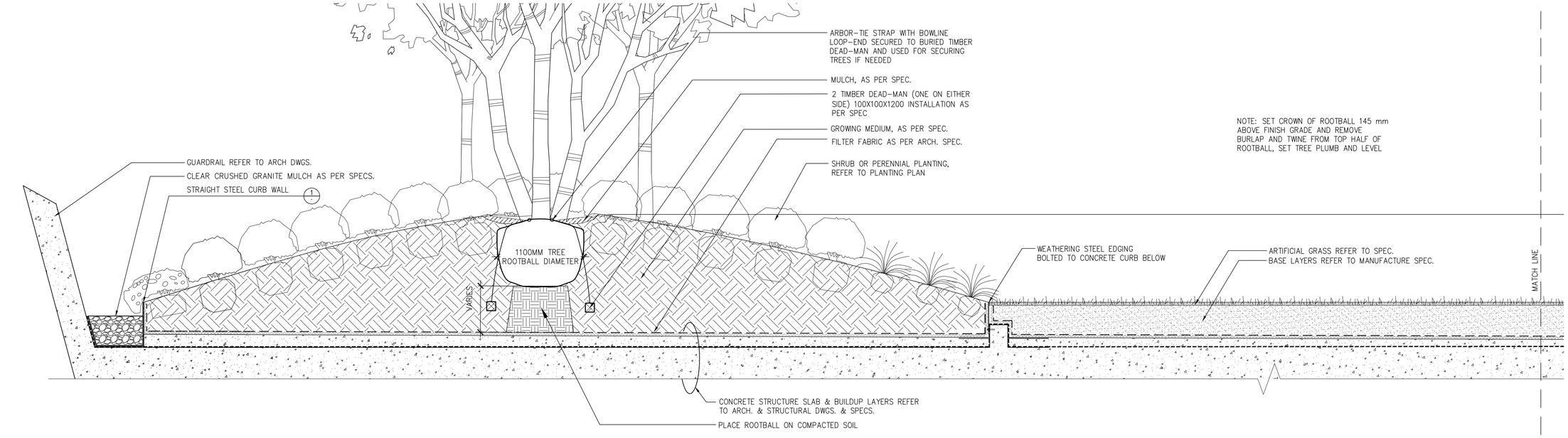
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LANDSCAPE
PLATING
PLAN

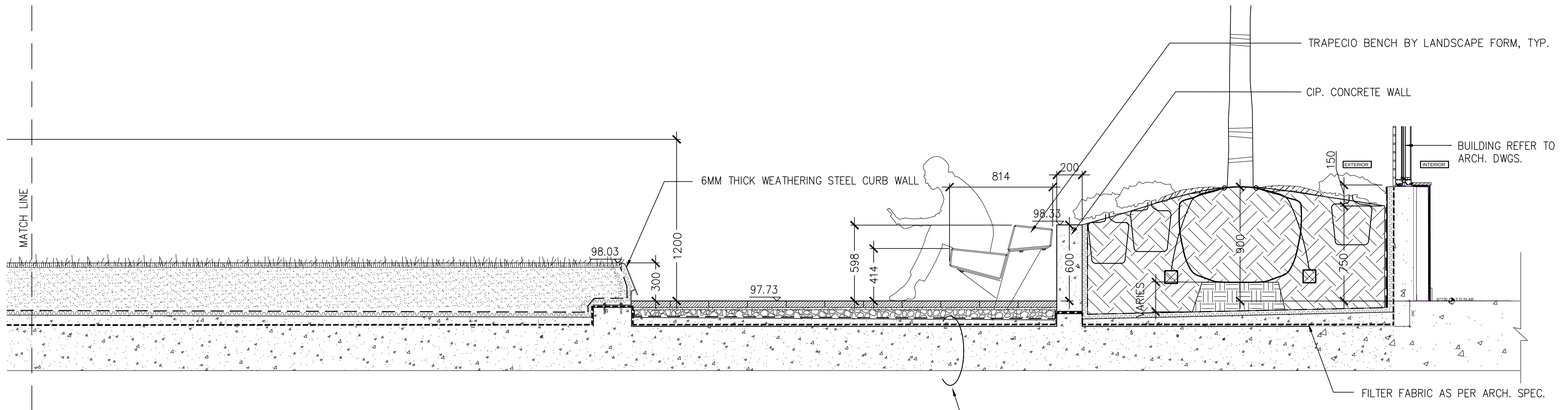
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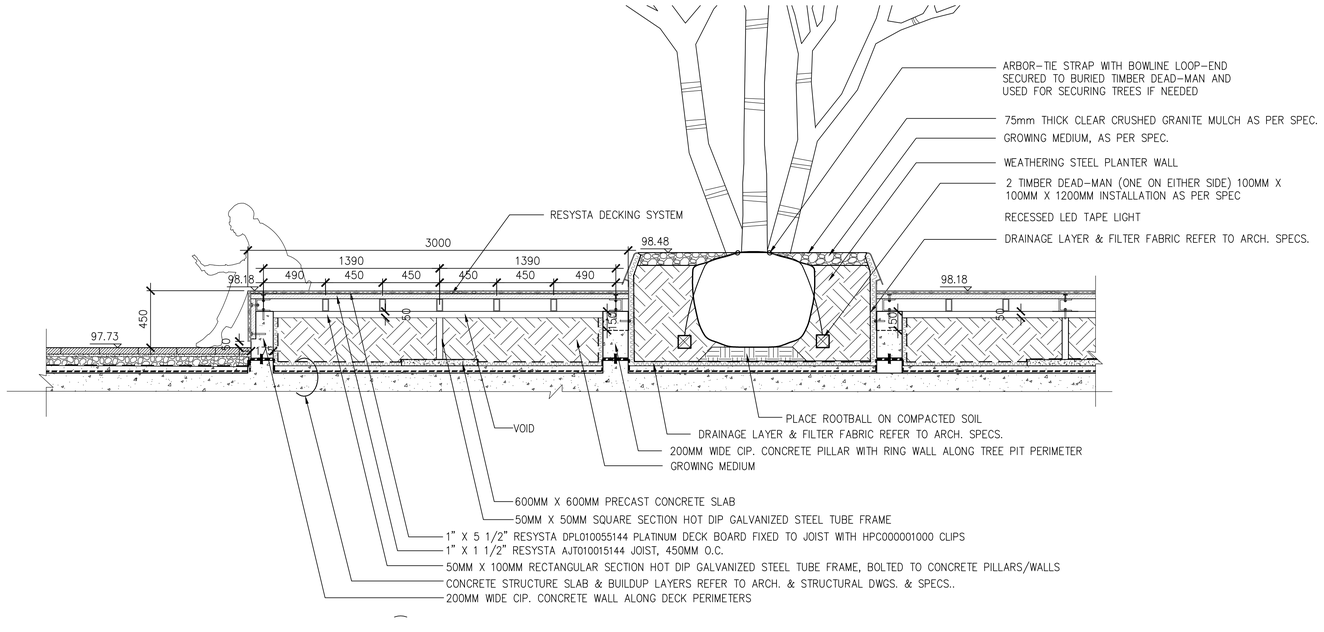
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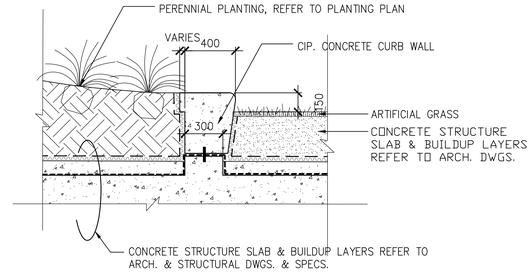


NOTE: SET CROWN OF ROOTBALL 145 mm ABOVE FINISH GRADE AND REMOVE BURLAP AND TWINE FROM TOP HALF OF ROOTBALL, SET TREE PLUMB AND LEVEL

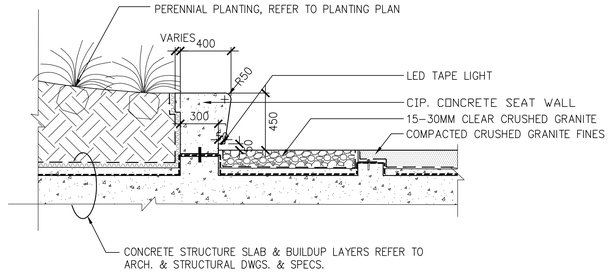


1 L05 **SECTION 1**
scale 1:20





3 L05 **CIP. CONCRETE CURB WALL DETAILS, TYP.**
scale 1:20



4 L05 **CIP. CONCRETE SEAT WALL DETAILS, TYP.**
scale 1:20

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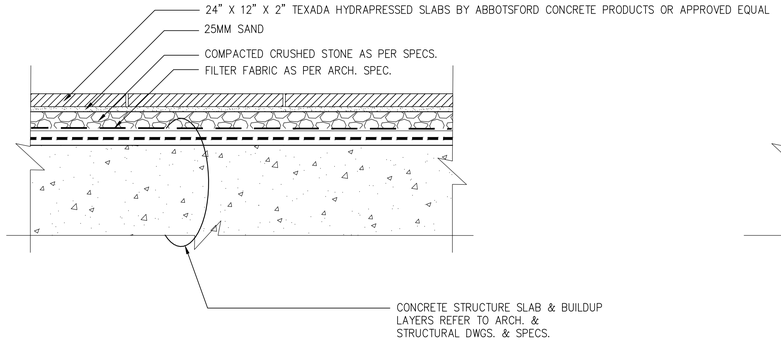
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LANDSCAPE
DETAILS

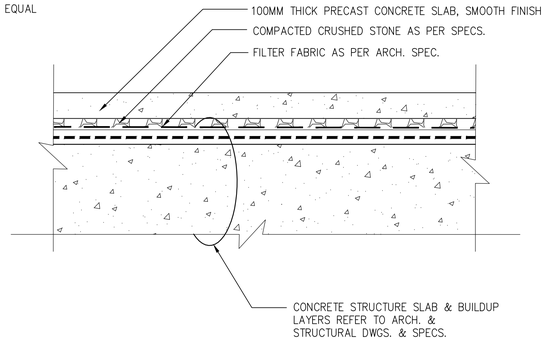
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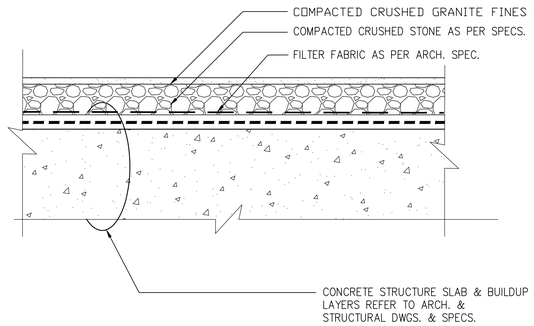
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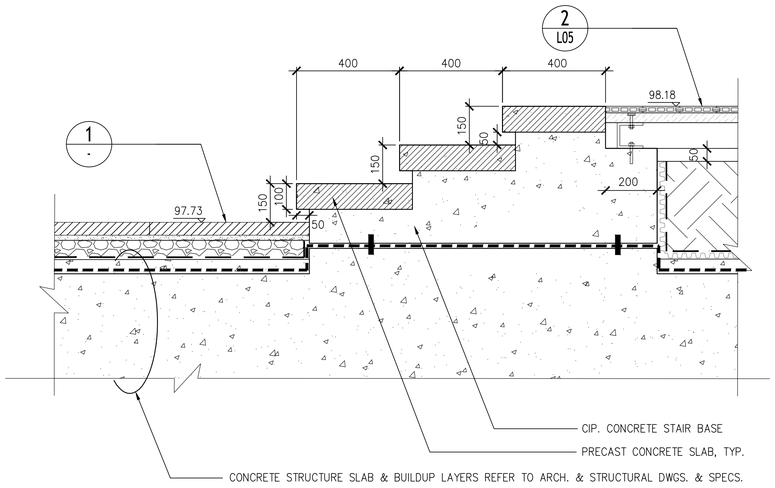
1 / L06 CONCRETE UNIT PAVING SLAB DETAILS, TYP.
scale 1:10



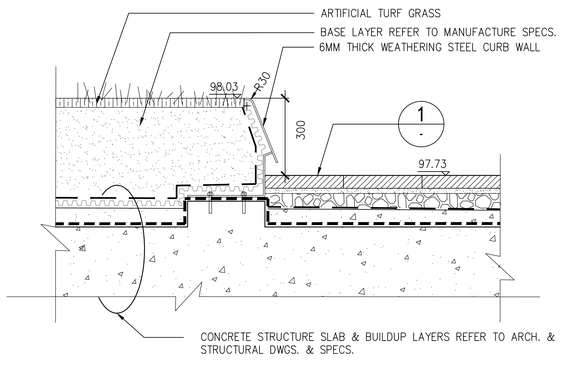
2 / L06 PRECAST ACCENT CONCRETE SLAB DETAILS, TYP.
scale 1:10



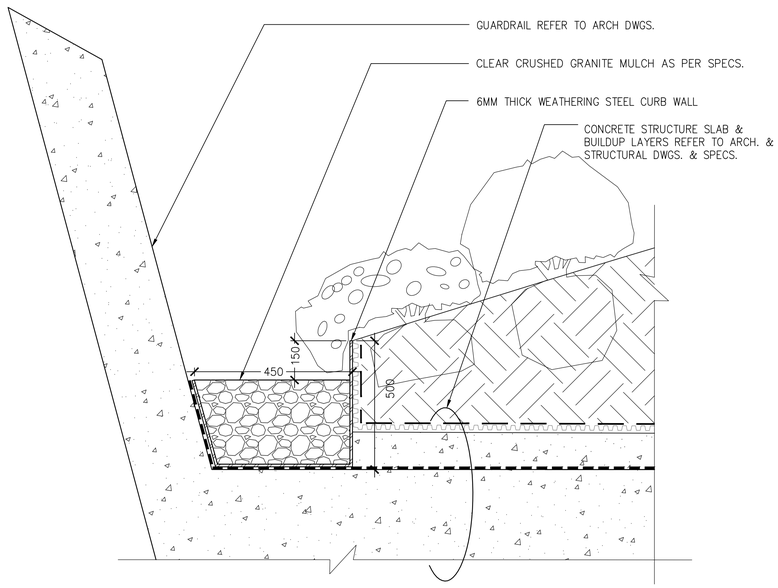
3 / L06 BOCCE COURT W/ COMPACTED CRUSHED GRANITE FINES
scale 1:10



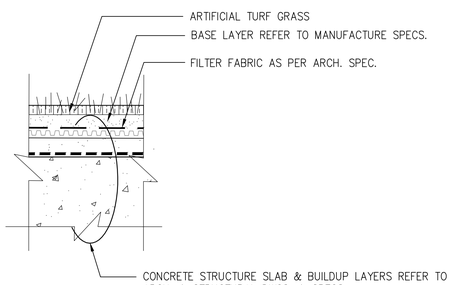
4 / L06 CONCRETE STAIR DETAILS, TYP.
scale 1:10



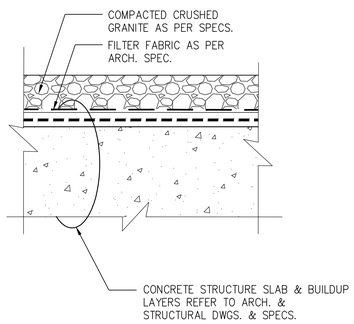
5 / L06 INCLINED STEEL CURB WALL DETAILS
scale 1:10



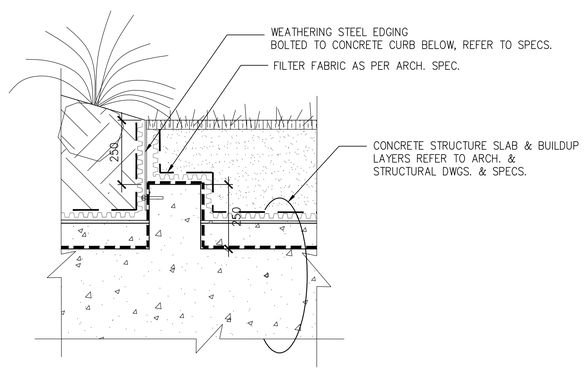
6 / L06 STEEL STRAIGHT CURB WALL DETAILS
scale 1:10



7 / L06 ARTIFICIAL GRASS DETAILS
scale 1:10



8 / L06 CRUSHED GRANITE PAVING
scale 1:10



9 / L06 WEATHERING STEEL EDGING
scale 1:10

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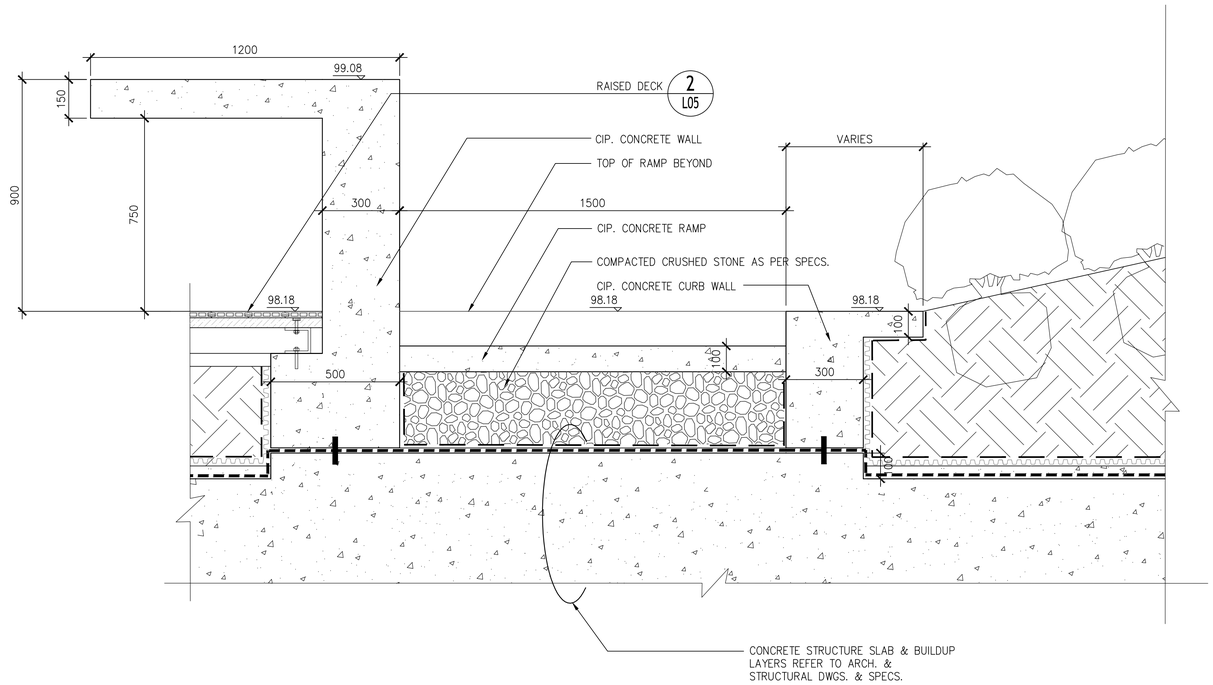
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LANDSCAPE
DETAILS

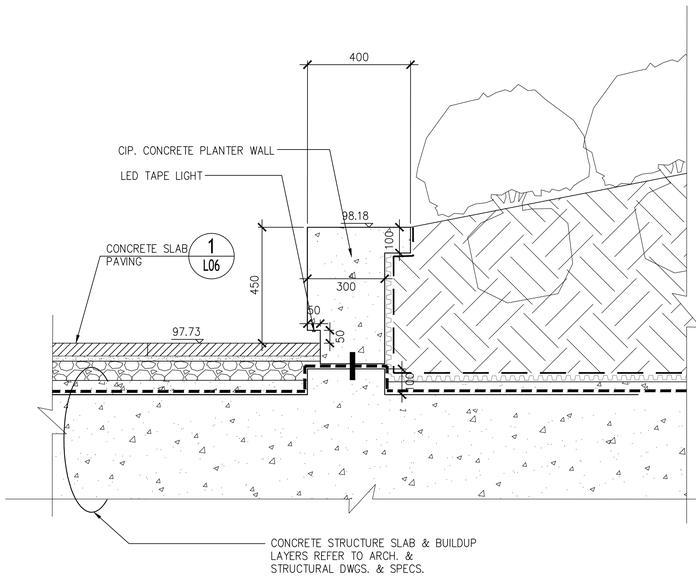
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L06

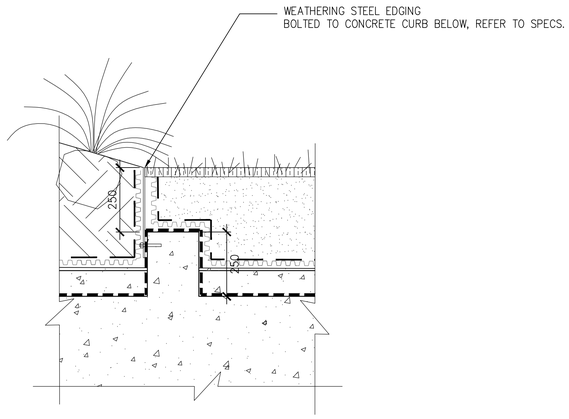
04473V



1 L07 **CIP. CONCRETE RAMP**
scale 1:10



2 L07 **CIP. CONCRETE PLANTER WALL**
scale 1:10



3 L07 **WEATHERING STEEL EDGING**
scale 1:10

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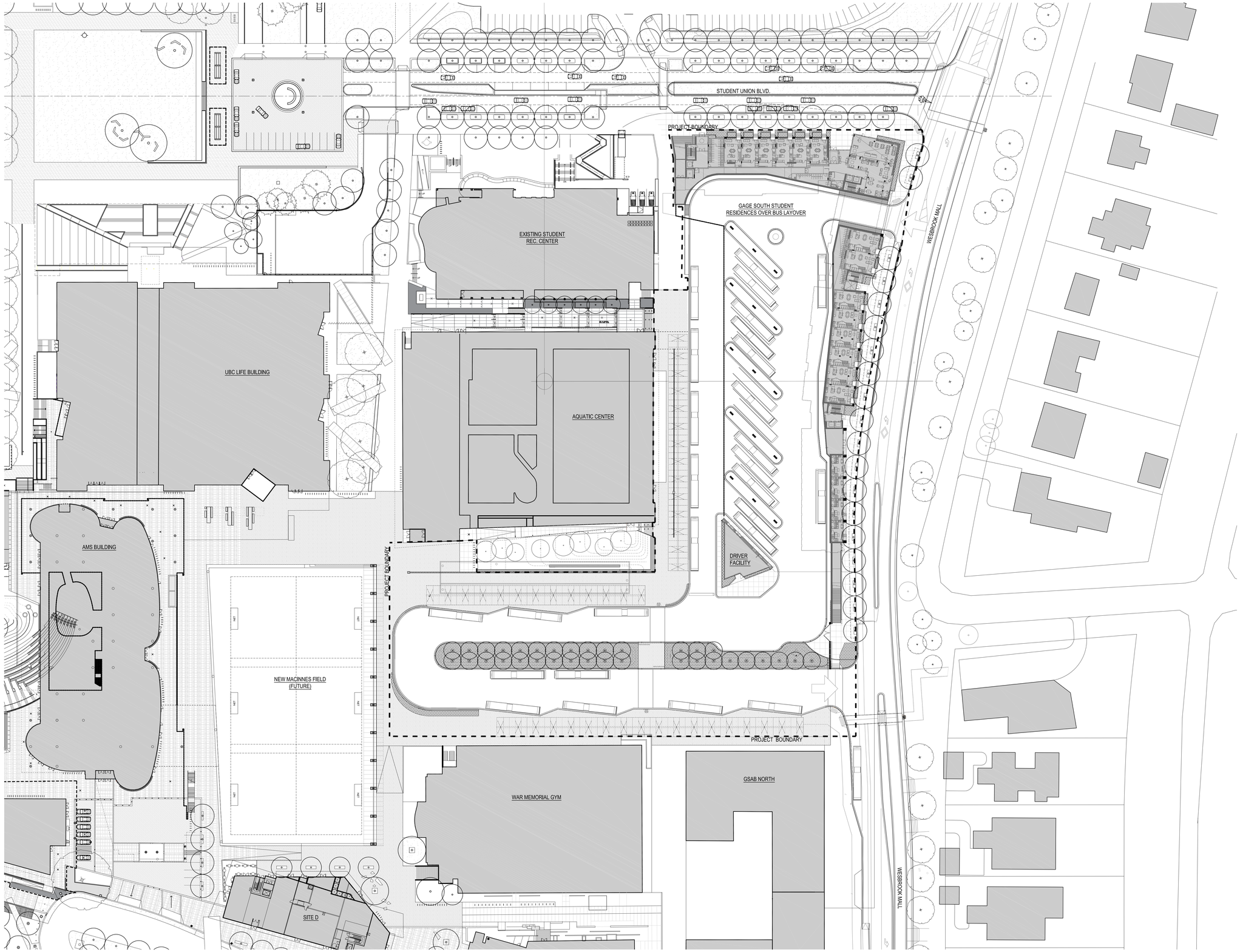
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L07

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1 FULL BUILDOUT PLAN
SCALE: 1:500

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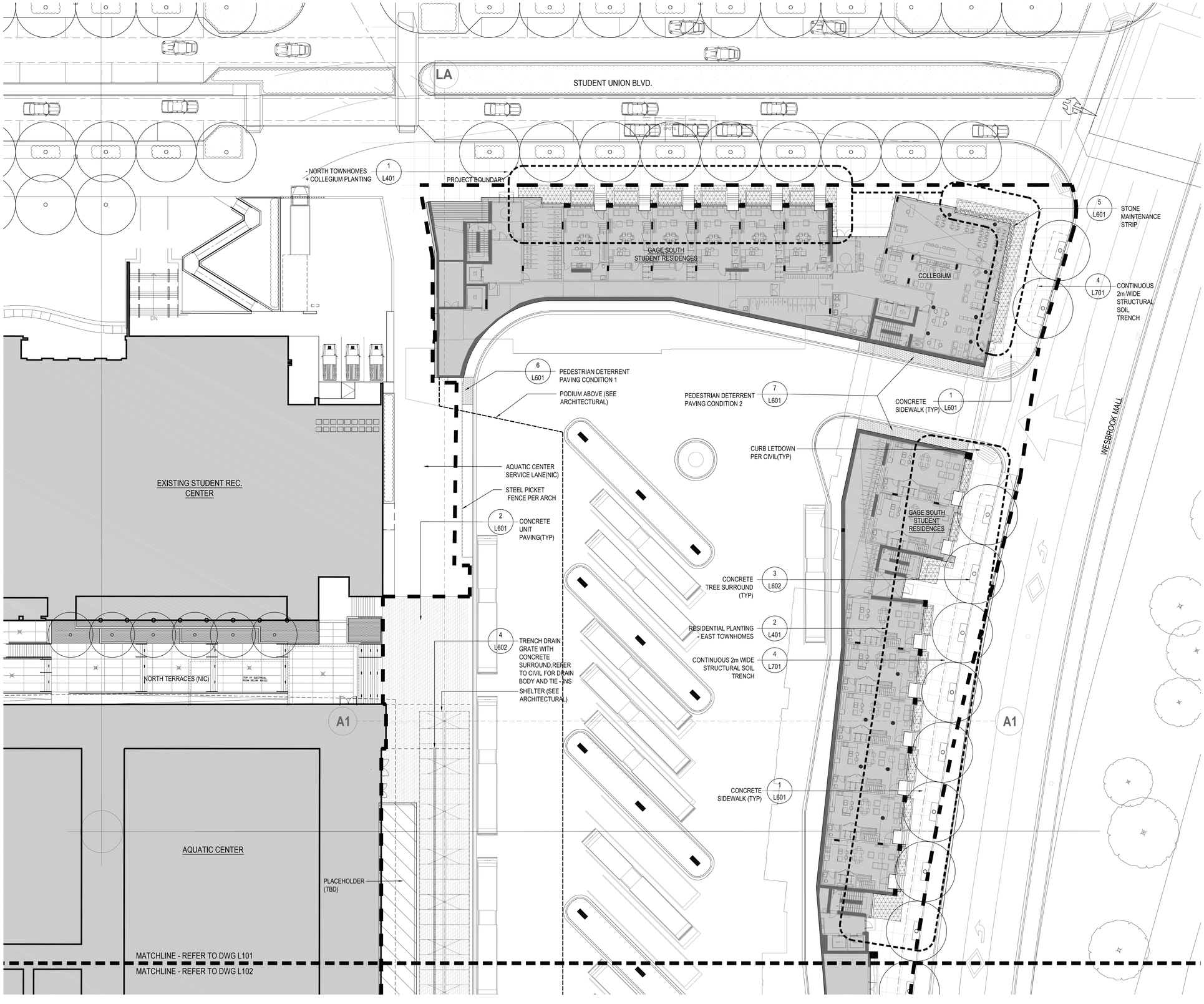
UBC GAGE SOUTH

FULL BUILDOUT PLAN (FOR REFERENCE ONLY)

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L001

PLOT DATE: 11/10/2015 11:57:12 AM



1 - MATERIAL & LAYOUT PLAN - NORTH

SCALE: 1:200

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2.ALL CURB LET DOWN TACTILE WARNING STRIPS AS PER UBC REQUIREMENTS

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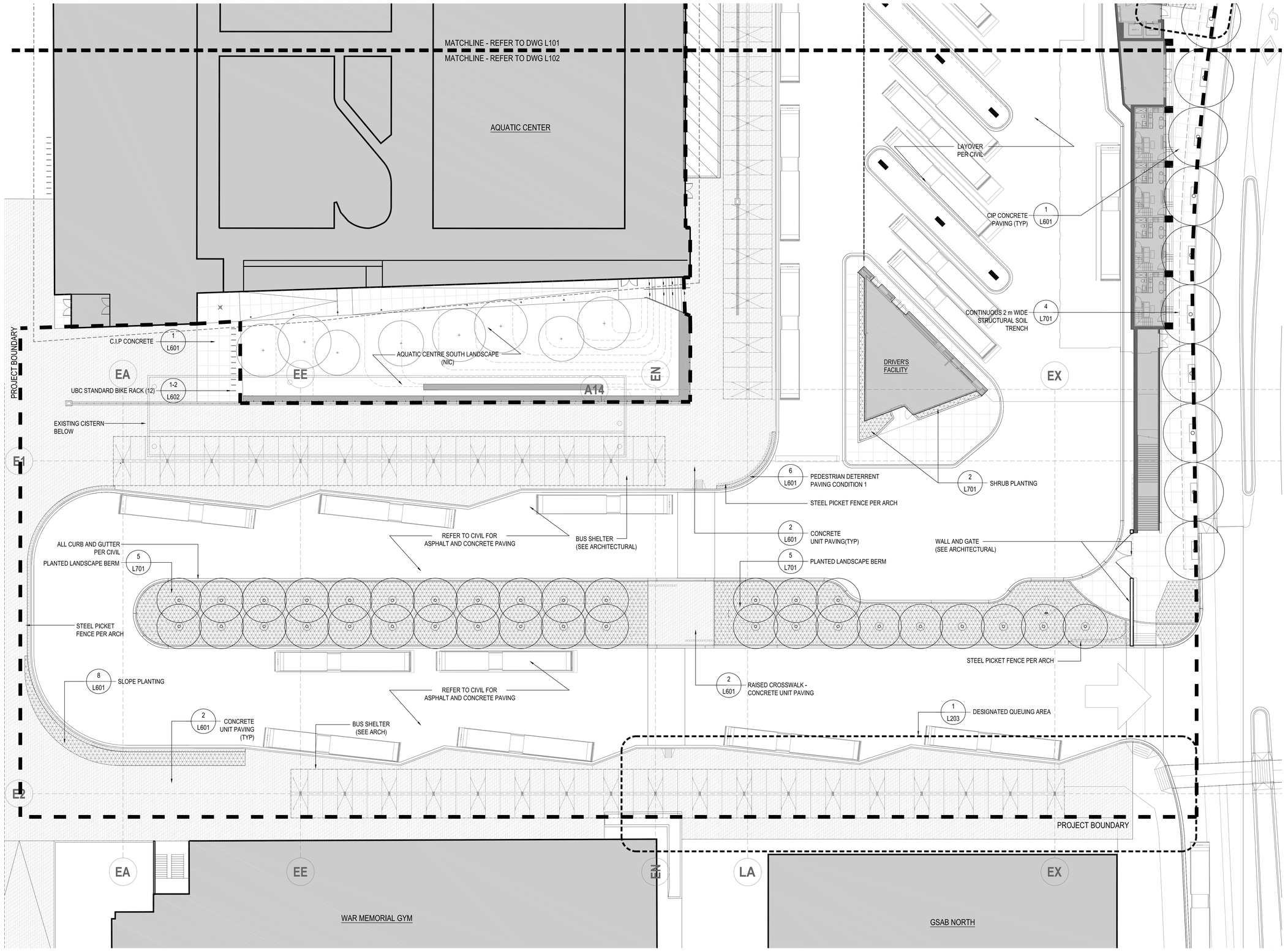
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MATERIAL PLAN - NORTH

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L101

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1 MATERIAL & LAYOUT PLAN - SOUTH
SCALE: 1:200

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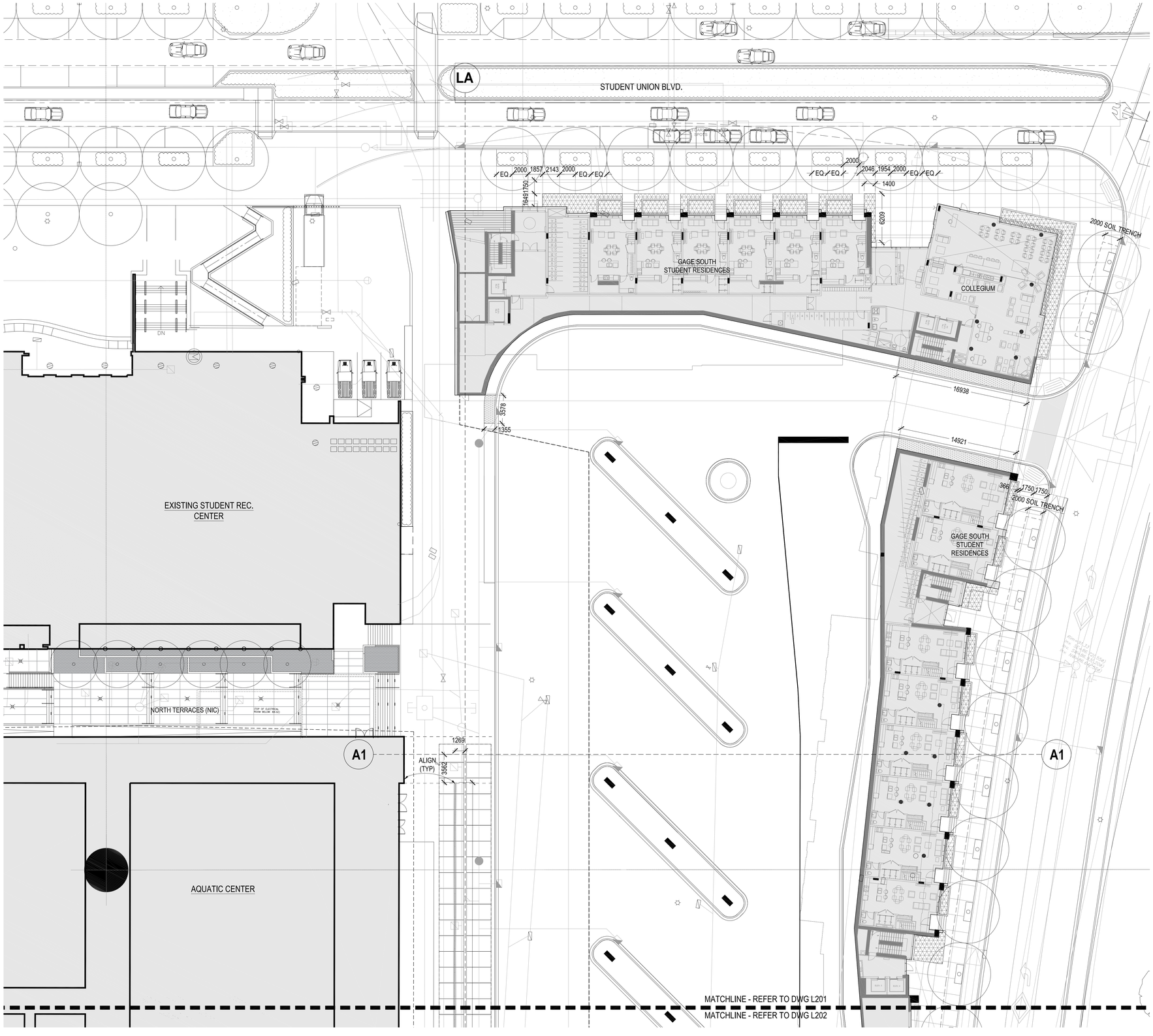
UBC GAGE SOUTH

MATERIAL PLAN - SOUTH

DRAWN: NST/BL CHECKED: RD

L102

PLOT DATE: 11/10/2015 11:57:12 AM



1 LAYOUT PLAN - NORTH
SCALE: 1:200

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NOTE:
1.LOCATION DIMENSIONS FOR TRENCH DRAINS TO CENTERLINE OF CONCRETE SURROUND.
2.ALL ANGLES 90° UNLESS OTHERWISE NOTED.

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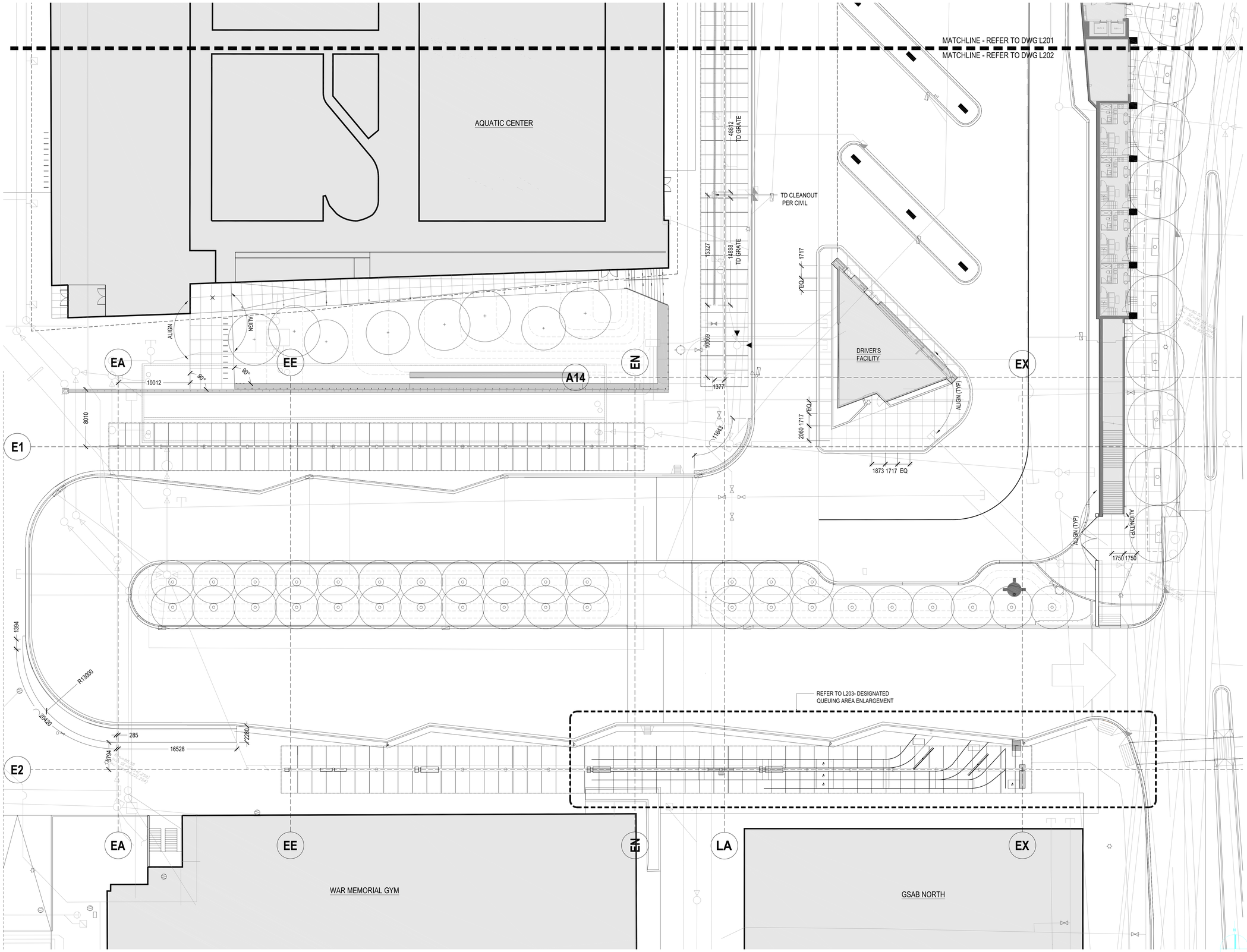
UBC GAGE SOUTH

LAYOUT PLAN - NORTH

DRAWN: NST/BL CHECKED: RD

L201

PLOT DATE: 11/10/2015 11:57:12 AM



1 LAYOUT PLAN - SOUTH
SCALE: 1:200

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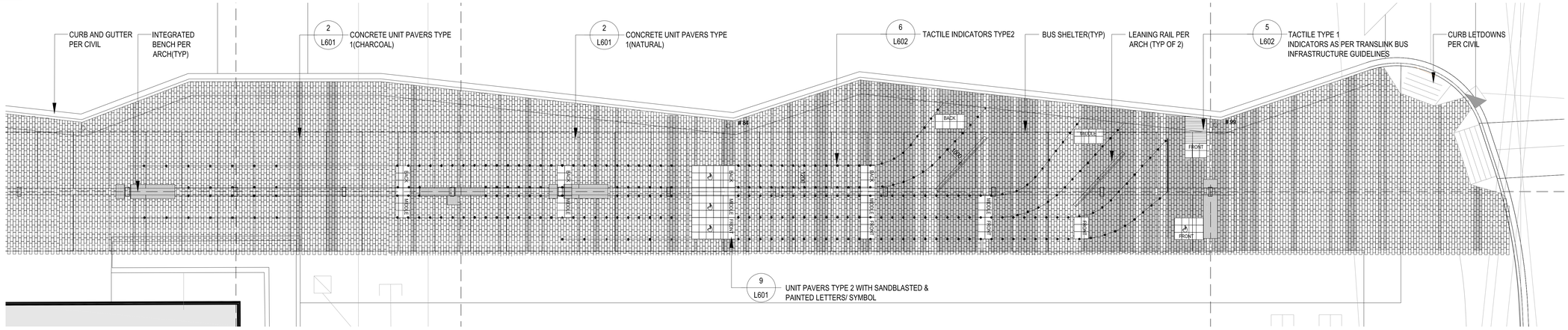
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LAYOUT PLAN - SOUTH

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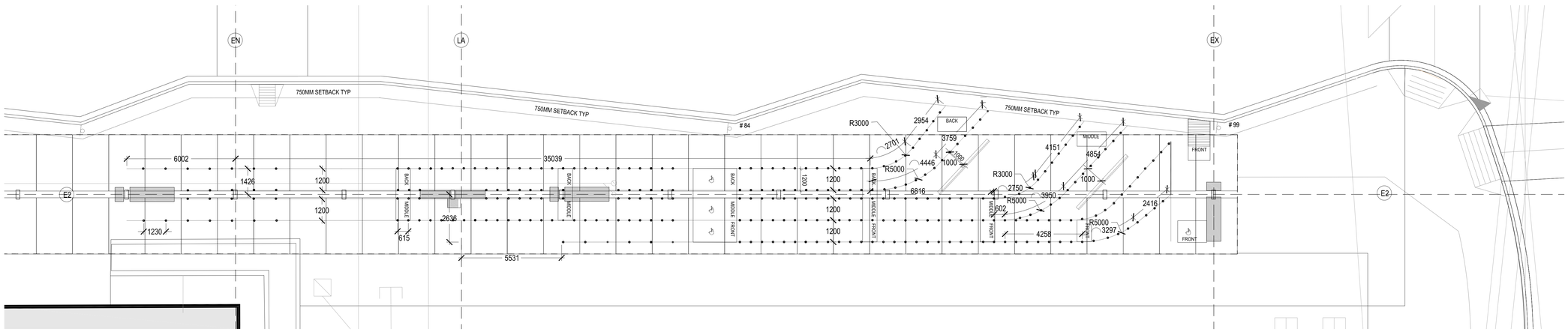
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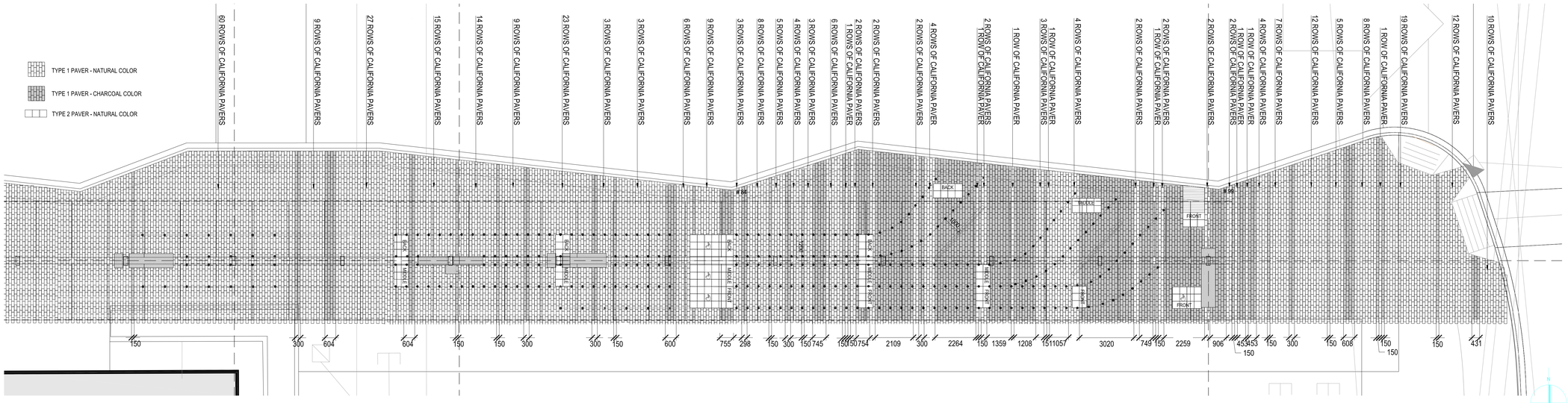
1 - 99BLINE QUEUING SYSTEM - MATERIALS PLAN

SCALE: 1:100



2 - 99BLINE QUEUING SYSTEM - QUEUING LINES LAYOUT PLAN

SCALE: 1:100



3 - 99BLINE QUEUING SYSTEM - PAVING LAYOUT

SCALE: 1:100

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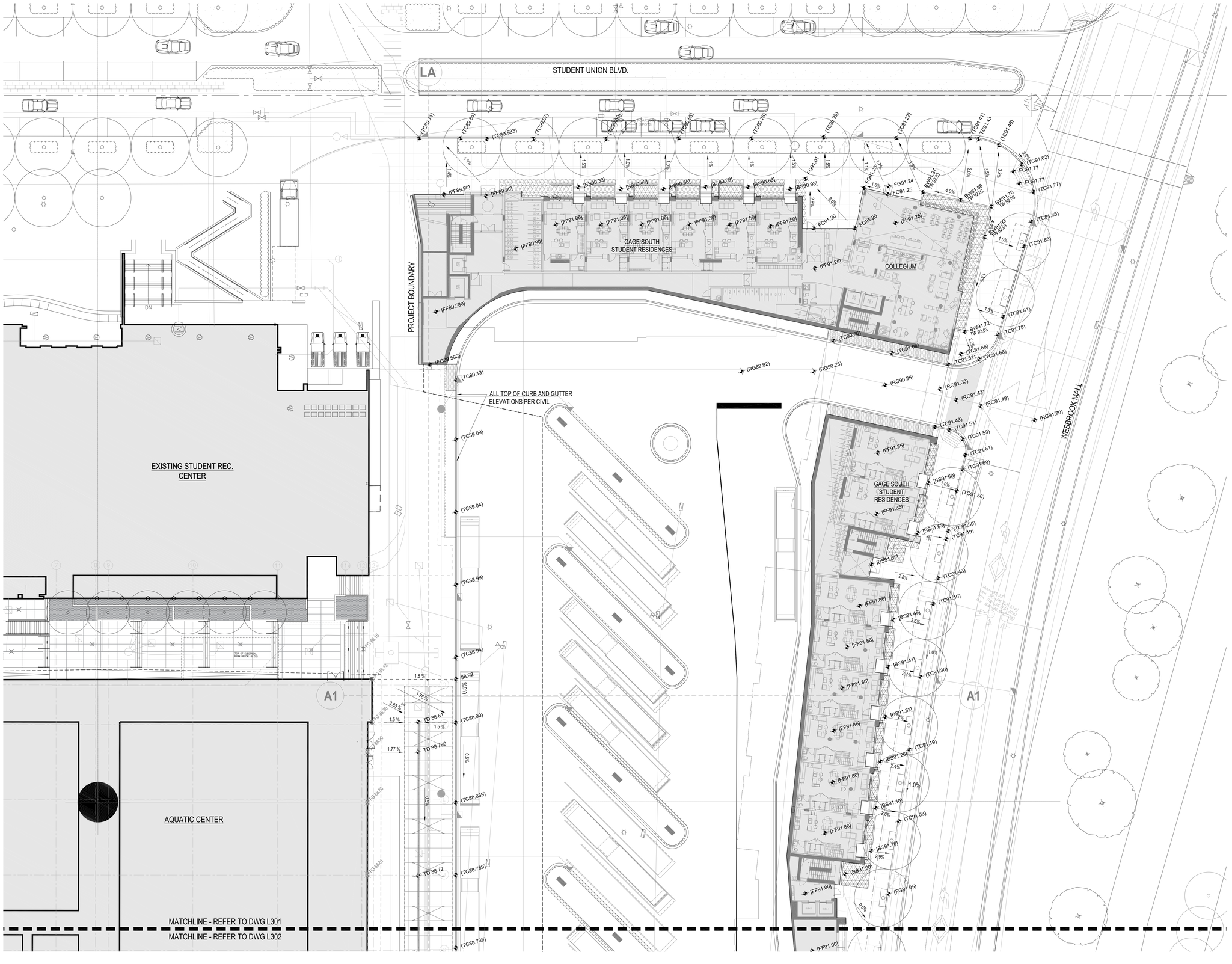
UBC GAGE SOUTH

LAYOUT PLAN - PAVING ENLARGEMENT

DRAWN: NST/BL CHECKED: RD

L203

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1 GRADING PLAN - NORTH
SCALE: 1:200

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LEGEND (PERTAINS TO ALL GRADING SHEETS)

+ [XX.XX]	ARCHITECTURAL GRADES
+ (XX.XX)	CIVIL GRADES
+ XX.XX	LANDSCAPE GRADES
+ XX.XX	REFERENCE GRADES
1 % →	SLOPE

GRADING NOTES (PERTAINS TO ALL GRADING SHEETS)

1. MATCH NEW CONSTRUCTION TO SURROUNDING ESTABLISHED GRADES. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
2. ALL AREAS ARE TO BE GRADED TO PROVIDE POSITIVE DRAINAGE AND AS SHOWN ON THE PLANS.
3. ALL UTILITY COVERS INCLUDING FRAMES, GRATES, CLEAN OUTS, VALVE COVERS AND OTHER SURFACE UTILITY FEATURES SHALL BE ADJUSTED TO MEET FINAL GRADES WITH APPROPRIATE INSTALLATION DETAILS.
4. ALL NEW TREES TO BE PLANTED 1M AWAY FROM UTILITIES.
5. ALL GRADES OUTSIDE OF PROPERTY BOUNDARY ARE PROVIDED FOR REFERENCE ONLY.
6. ALL TOP OF CURB GRADES AS PER CIVIL

SEAL

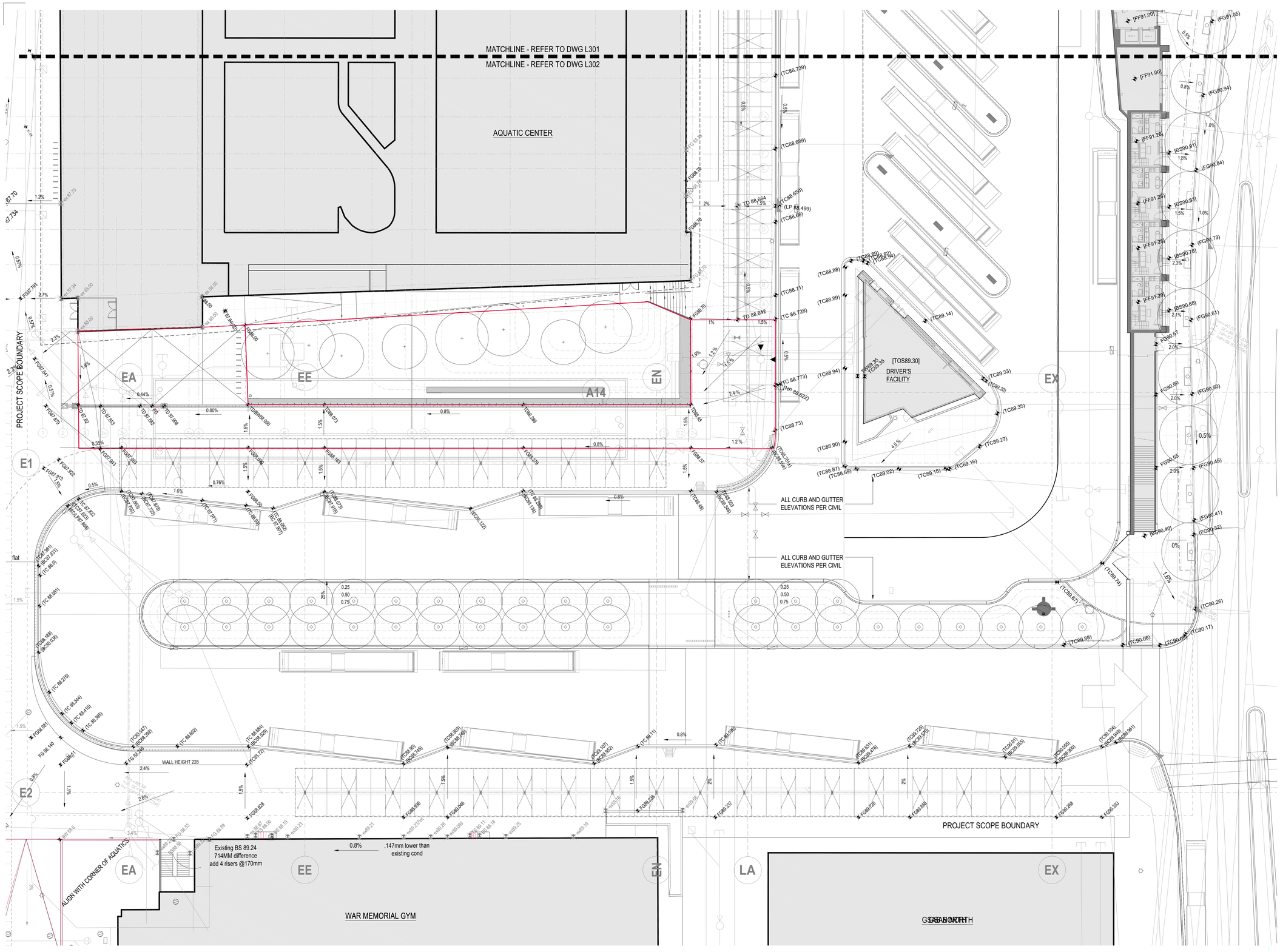
UBC GAGE SOUTH

GRADING PLAN
- NORTH

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L301

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1 GRADING PLAN - SOUTH
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1 % →	SLOPE

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4. ALL NEW TREES TO BE PLANTED 1M AWAY FROM UTILITIES.
5. ALL GRADES OUTSIDE OF PROPERTY BOUNDARY ARE PROVIDED FOR REFERENCE ONLY.
6. ALL TOP OF CURB GRADES AS PER CIVIL

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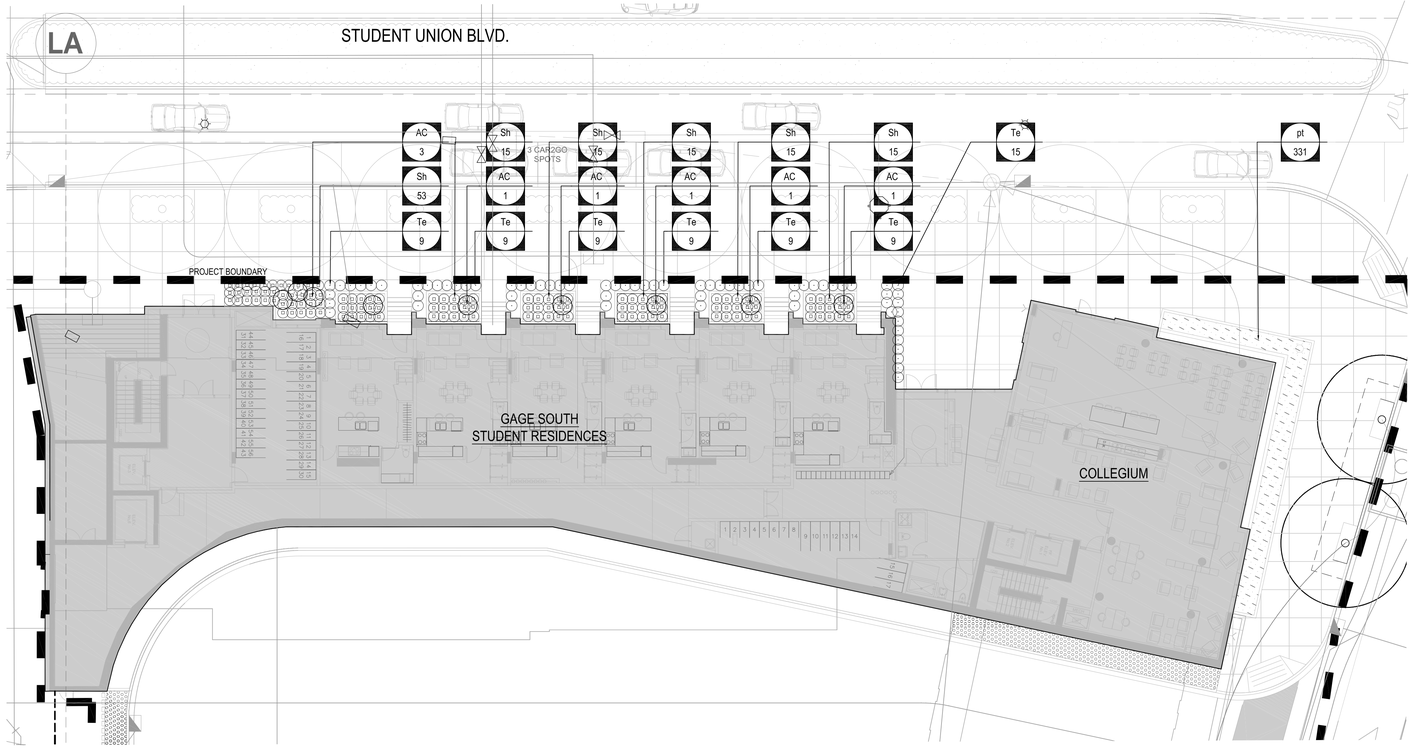
UBC GAGE SOUTH

GRADING PLAN
- SOUTH

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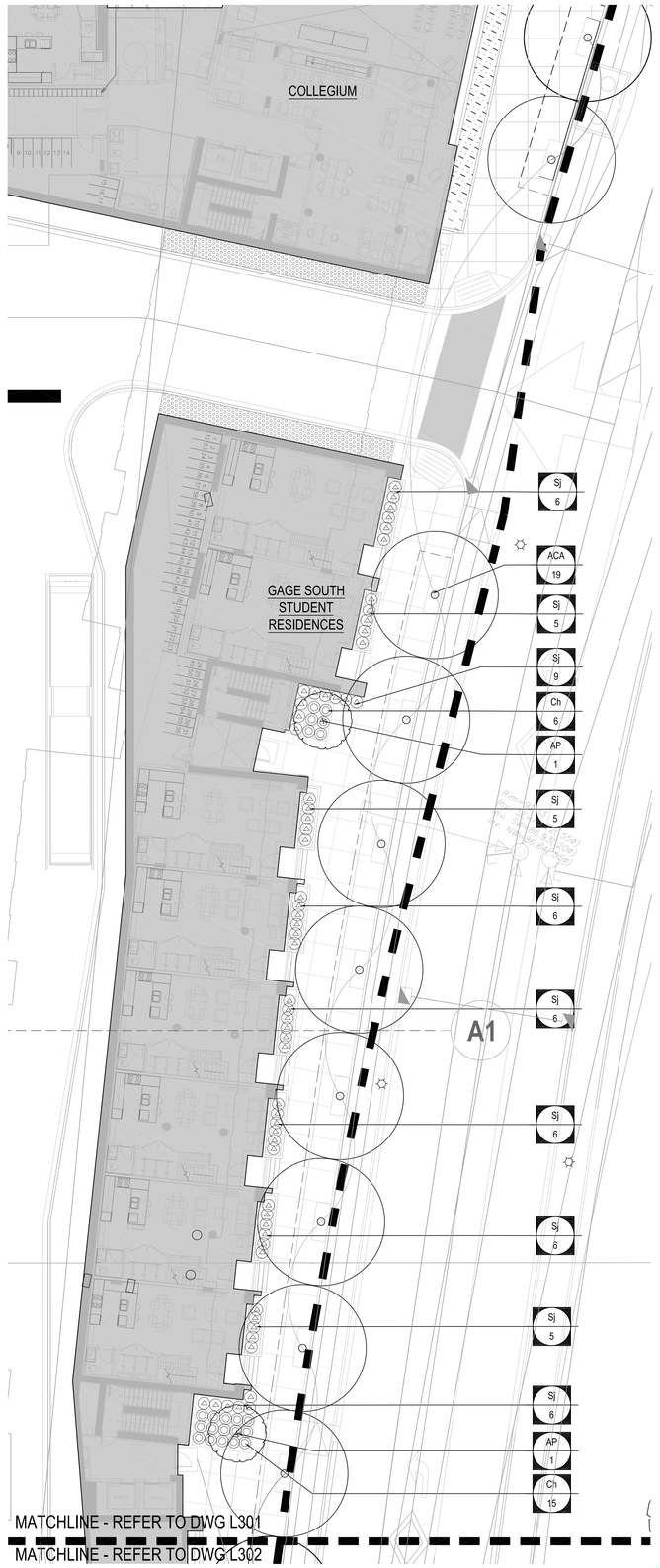
L302

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1 / - PLANTING PLAN - NORTH TOWN HOMES + COLLEGIUM

SCALE: 1:150



2 / - PLANTING PLAN - EAST TOWN HOMES

SCALE: 1:150

PLANTING SCHEDULE

TREES

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
8	AC	Acer circinatum	Vine Maple	6 cm hgt,see plan for spacing	Multi stem-3 canes min
2	AP	Acer palmatum	Japanese Maple	6 cm hgt,see plan for spacing	Evenly branched
34	CB	Carpinus betulus	European Hornbeam	8 cm cal., 6'standard, see plan for spacing	Evenly branched/matched
19	ACA	Acer Campestre	Hedge Maple	8 cm cal, 6' standard, see plan for spacing	Evenly branched/matched

SHRUBS / GROUNDCOVERS

QTY	KEY	BOTANICAL NAME	COMMON NAME	SIZE	NOTES
57	Ag	Abelia x grandiflora	Glossy Abelia 'Dwarf'	#2 pot, 450mm O.C	FULL/MATCHED
21	Ch	Cephalotaxus harringtonia'Prostrata'	Spreading Japanese Plum Yew	#2 pot, 450mm O.C	FULL/MATCHED
2520	Lp	Lonicera pileata	Boxleaf Honeysuckle	#2 pot, 900mm O.C	FULL/MATCHED
8	Pl	Prunus laurocerasus 'Otto Luyken'	Otto Luyken English Laurel	#3 pot, 600mm O.C	FULL/MATCHED
331	pt	Pachysandra terminalis	Pachysandra	#1 pot, 300mm O.C	FULL/MATCHED
128	Sh	Sarcococca hookeriana var. humilis	Dwarf Sweetbox	#3 pot, 600mm O.C	FULL/MATCHED
60	Sj	Skimmia japonica	Japanese Skimmia	#3 pot, 600mm O.C	FULL/MATCHED
69	Te	Taxus x media 'Eddies'	Yew	#3 pot, 600mm O.C	FULL/MATCHED

PLANTING NOTES

1. ALL NEW LANDSCAPE AREAS TO RECEIVE IRRIGATION PER UBC STANDARDS
2. ALL NEW TREES TO BE PLANTED A MINIMUM OF 1M AWAY FROM UTILITIES (FROM EDGE OF ROOTBALL)

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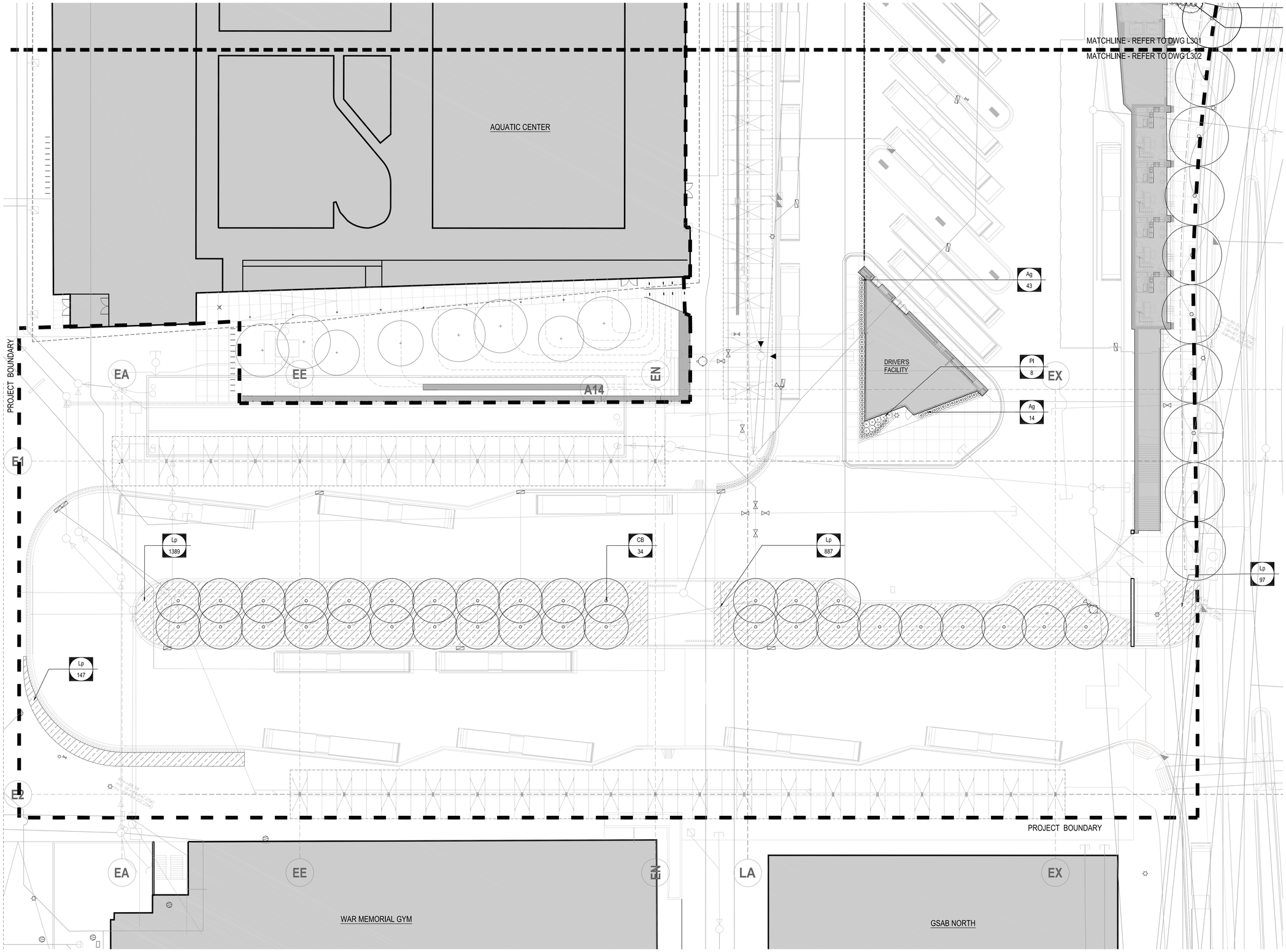
UBC GAGE SOUTH

PLANTING PLAN_TREES - NORTH

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L401

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1 PLANTING PLAN - SOUTH
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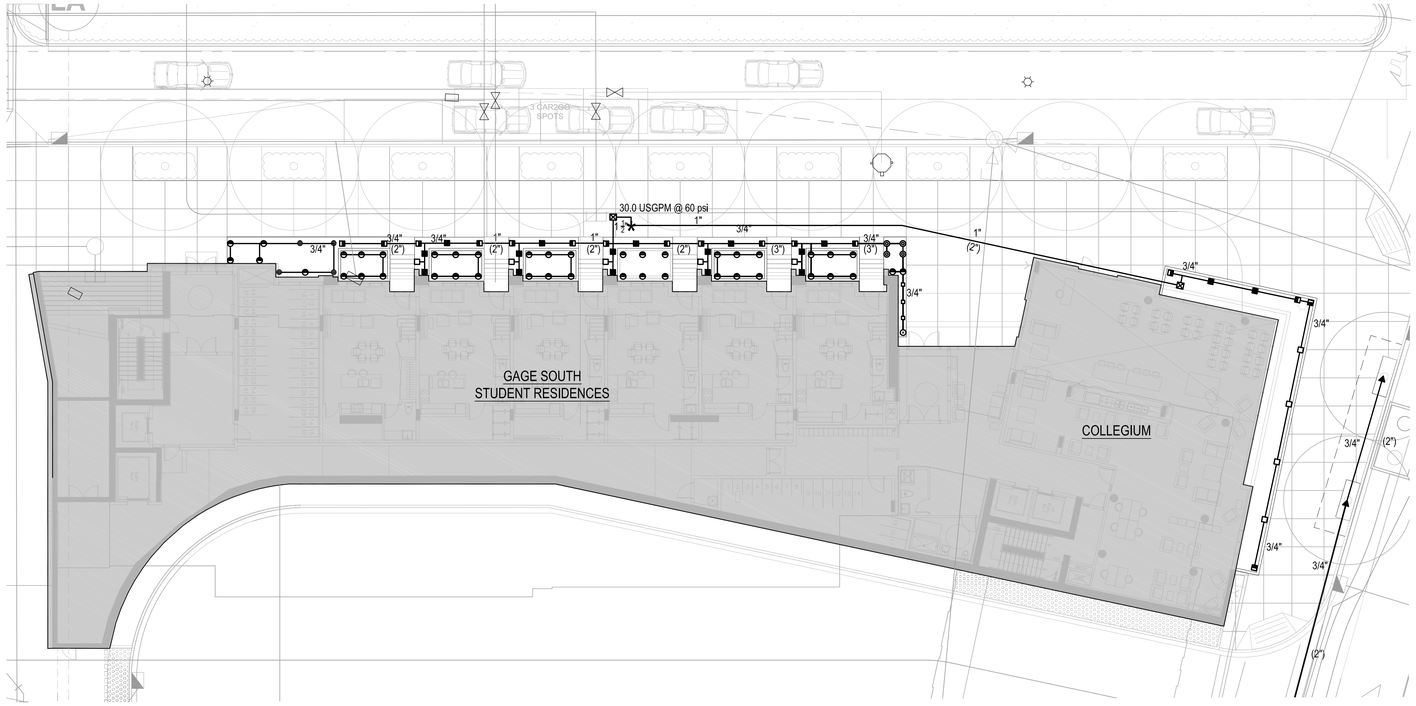
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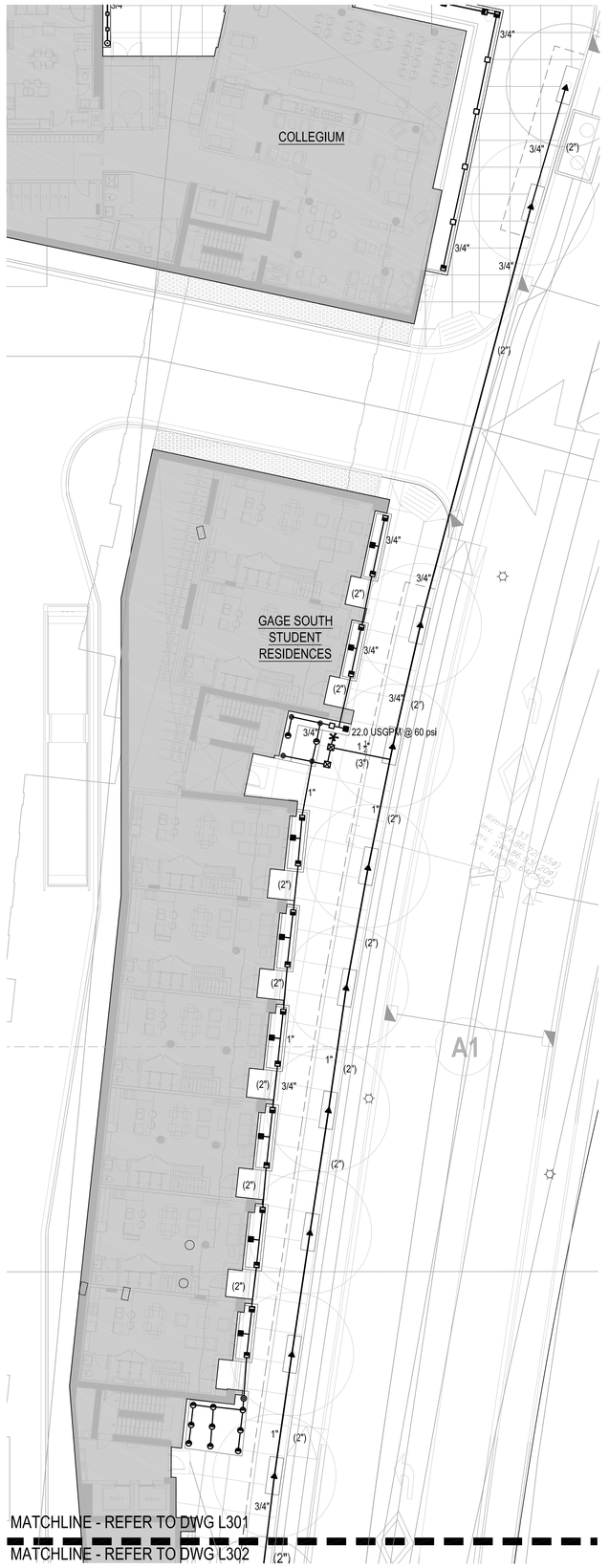
PLANTING PLAN_TREES - SOUTH

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L402

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IRRIGATION SCHEDULE

⬡	Main Connection	45.0 USGPM @ 60 psi, 2" Double Check Valve Assembly & Rainbird #3 Quick Coupler
✱	Stubout Location	11/2" ball valve & #3QC in 1419 Box
⬡	Time Clock	Rainbird ESPBLXME
⊠	Auto Valve	Rainbird 100 PEB Valve
⊠	Auto Valve	Rainbird 150 PEB Valve
○	Rainbird 1804-PRS Sprinkler c/w U12' Nozzle	
●	Rainbird 1804-PRS Sprinkler c/w U10' Nozzle	
◓	Rainbird 1804-PRS Sprinkler c/w U8' Nozzle	
◎	Rainbird 1804-PRS Sprinkler c/w 5' Nozzle	
⊙	Rainbird 1804-PRS Sprinkler c/w SQ-QTR Nozzle	
▫	Rainbird 1804-PRS Sprinkler c/w SQ-HLF Nozzle	
□	Rainbird 1804-PRS Sprinkler c/w SQ-15SST Nozzle	
◨	Rainbird 1804-PRS Sprinkler c/w SQ-15RCS or LCS Nozzle	
■	Rainbird 1804-PRS Sprinkler c/w 15SST Nozzle + 0.6 PCS	
▲	Rainbird 1402 Bubbler(2 per Tree)	

(x") Sleeve size

- use HE-VAN Nozzles for spray patterns less than 90 degrees
- install Rain Sensor on system, location to be determined on site
- flow thru all piping not to exceed 5ft/sec

1 PLANTING PLAN - NORTH
SCALE: 1:200

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IRRIGATION PLAN - NORTH

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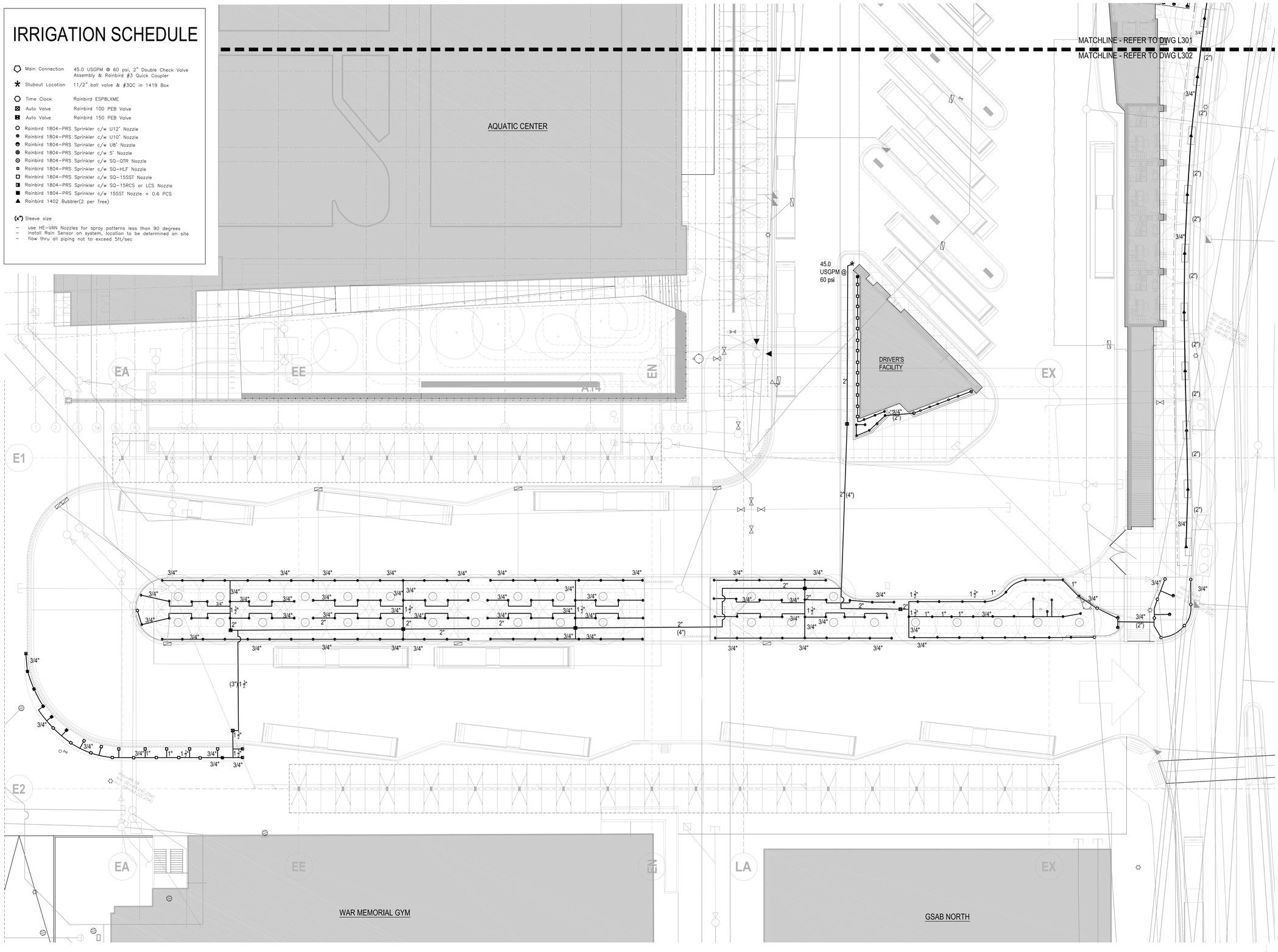
L501

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IRRIGATION SCHEDULE

⬡	Main Connection	45.0 USGPM @ 60 psi, 2" Double Check Valve Assembly & Rainbird #3 Quick Coupler
✱	Stubout Location	11/2" ball valve & #3QC in 1419 Box
⬡	Time Clock	Rainbird ESP8LXME
⊠	Auto Valve	Rainbird 100 PEB Valve
■	Auto Valve	Rainbird 150 PEB Valve
○	Rainbird 1804–PRS Sprinkler c/w U12' Nozzle	
●	Rainbird 1804–PRS Sprinkler c/w U10' Nozzle	
◓	Rainbird 1804–PRS Sprinkler c/w U8' Nozzle	
◎	Rainbird 1804–PRS Sprinkler c/w 5' Nozzle	
⊙	Rainbird 1804–PRS Sprinkler c/w SQ–QTR Nozzle	
▫	Rainbird 1804–PRS Sprinkler c/w SQ–HLF Nozzle	
□	Rainbird 1804–PRS Sprinkler c/w SQ–15SST Nozzle	
◨	Rainbird 1804–PRS Sprinkler c/w SQ–15RCS or LCS Nozzle	
■	Rainbird 1804–PRS Sprinkler c/w 15SST Nozzle + 0.6 PCS	
▲	Rainbird 1402 Bubbler(2 per Tree)	
(x")	Sleeve size	

– use HE–VAN Nozzles for spray patterns less than 90 degrees
– install Rain Sensor on system, location to be determined on site
– flow thru all piping not to exceed 5ft/sec



1 PLANTING PLAN - SOUTH

SCALE: 1:200

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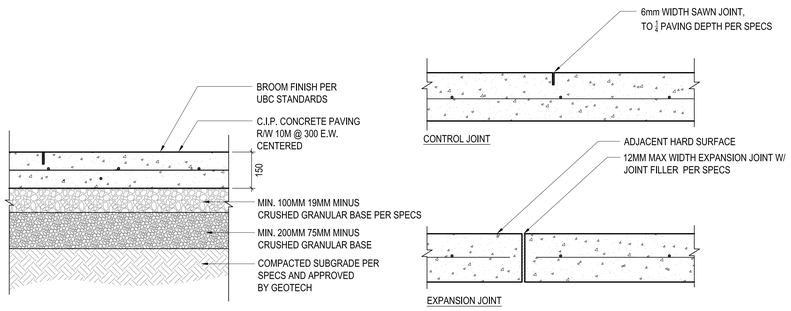
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IRRIGATION PLAN - SOUTH

DRAWN: NST/BL CHECKED: RD

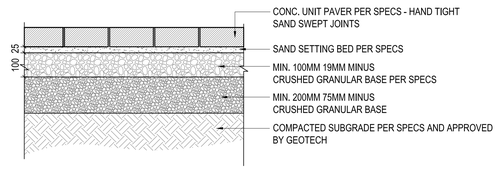
L502

PLOT DATE: 11/10/2015 11:57:12 AM



1 L601 C.I.P. CONCRETE

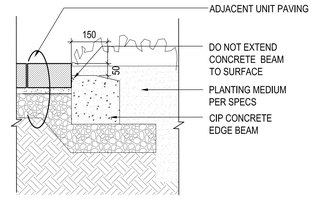
SCALE: 1:10



NOTES:
1. TYPE 1 PAVER TO BE 151x301x80 mm PER SPECS(NATURAL OR CHARCOAL)
2. TYPE 2 PAVER TO BE 401x401x80 mm PER SPECS(NATURAL)
3. SEE DETAIL 3/L601 FOR PAVER EDGE RESTRAINT
4. REFER TO DETAILS 4/L601 FOR TYPICAL PAVING PATTERN
5. REFER TO LAYOUT PLAN FOR COLOR VARIATIONS AND PATTERN LOCATIONS

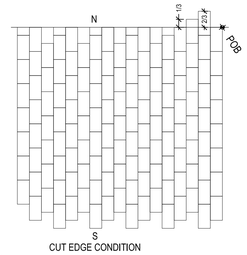
2 L601 CONCRETE UNIT PAVING - TYPE 1 & 2

SCALE: 1:10



3 L601 PAVER EDGE RESTRAINT

SCALE: 1:10

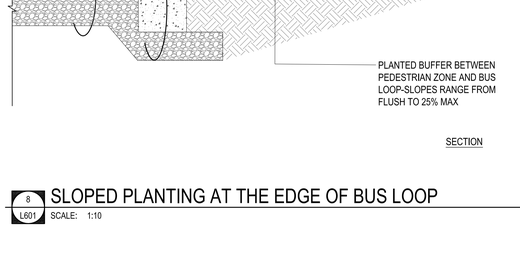


CUT EDGE CONDITION

NOTES:
1. PATTERN TO BE 1/3 OFFSET RUNNING BOND
2. PAVERS TO BE ORIENTED N/S AS SHOWN
3. AT STARTING EDGE CONDITION, PAVERS TO BE CUT IN1/3 INCREMENTS AS SHOWN
4. CONTRACTOR TO ENSURE A SEAMLESS TIE-IN CONDITION BETWEEN INSTALLED PHASE 1 PAVERS AND NEW PAVERS

4 L601 UNIT PAVERS TYPE 1 - PATTERN 1

SCALE: 1:30 — 1/3 OFFSET RUNNING BOND



5 L601 STONE MAINTENANCE STRIP

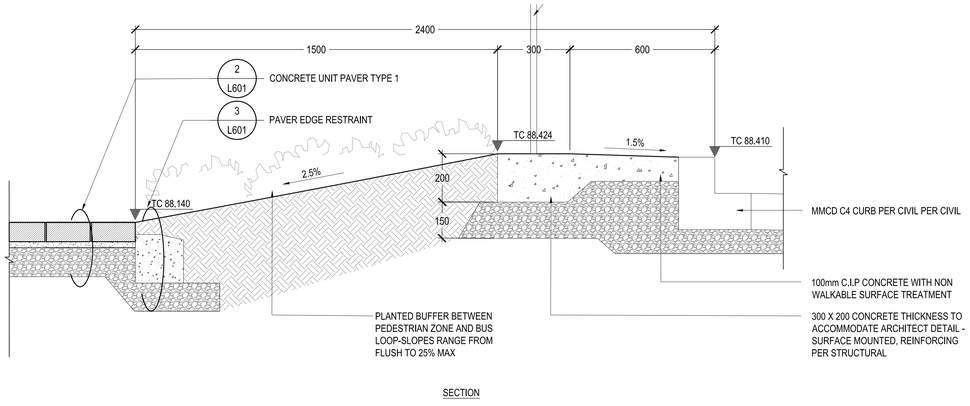
SCALE: 1:10

6 L601 PEDESTRIAN DETERRENT PAVING - CONDITION 1

SCALE: 1:10

7 L601 PEDESTRIAN DETERRENT PAVING - CONDITION 2

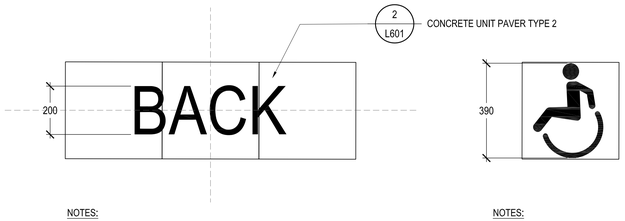
SCALE: 1:10



SECTION

8 L601 SLOPED PLANTING AT THE EDGE OF BUS LOOP

SCALE: 1:10



NOTES:
1. DIRECTIONAL TEXT PER TRANSLINK WAY FINDING STANDARDS MANUAL.
2. TEXT HEIGHT TO BE 200 MM, CENTERED ON PAVERS
3. SANDBLAST ON TO PAVERS IN FIELD.
4. CONSULTANT TO REVIEW TEXT PLACEMENT & TEMPLATE PRIOR TO ANY SANDBLASTING

NOTES:
1. ACCESSIBLE ICONS PER TRANSLINK WAY FINDING STANDARDS MANUAL.
2. SYMBOL HEIGHT TO BE 390 MM, CENTERED ON PAVERS
3. SANDBLAST ON TO PAVERS IN FIELD.
4. CONSULTANT TO REVIEW TEXT PLACEMENT & TEMPLATE PRIOR TO ANY SANDBLASTING

9 L601 UNIT PAVERS TYPE 2 WITH SANDBLASTED & PAINTED LETTERS/ SYMBOL

SCALE: 1:10

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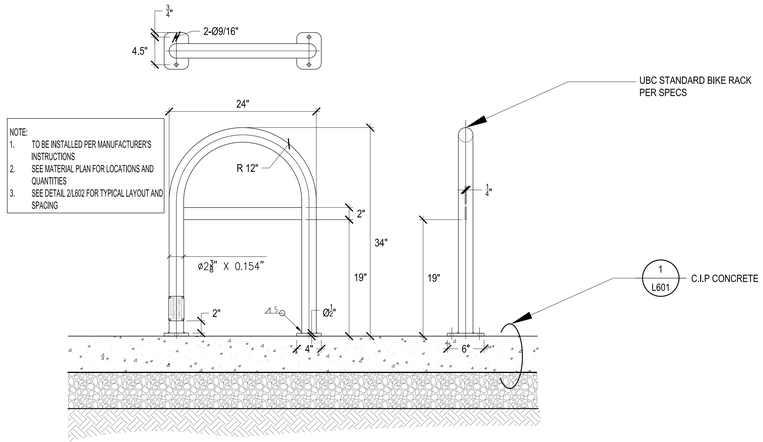
UBC GAGE SOUTH

LANDSCAPE DETAILS

DRAWN: NST/BL CHECKED: RD

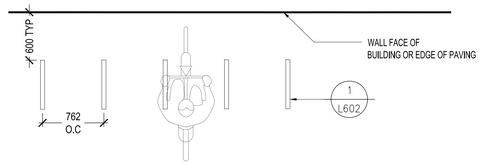
L601

PLOT DATE: 11/10/2015 11:57:12 AM



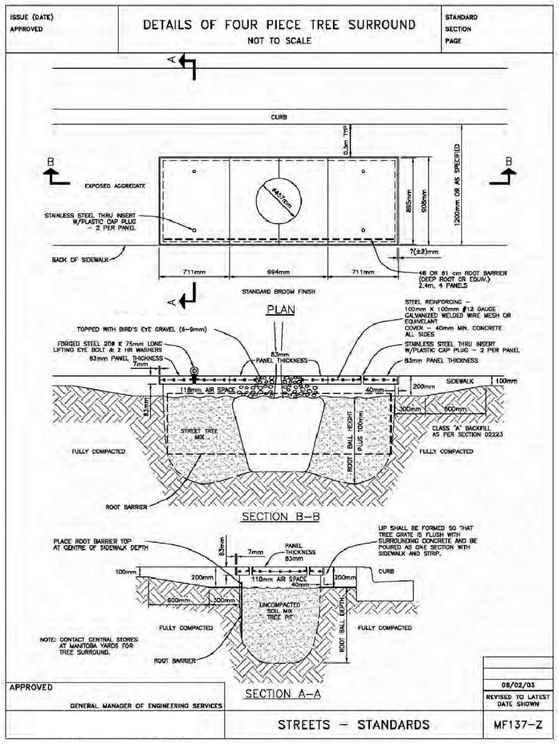
1 L602 UBC STANDARD BIKE RACK-SURFACE MOUNT

SCALE: 1:10



2 L602 TYPICAL BIKE RACK LAYOUT & SPACING

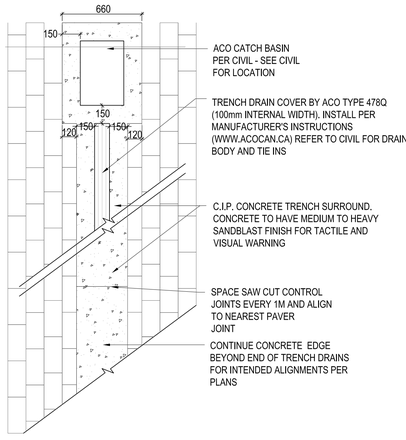
SCALE: 1:30



3 L602 CONCRETE TREE SURROUND

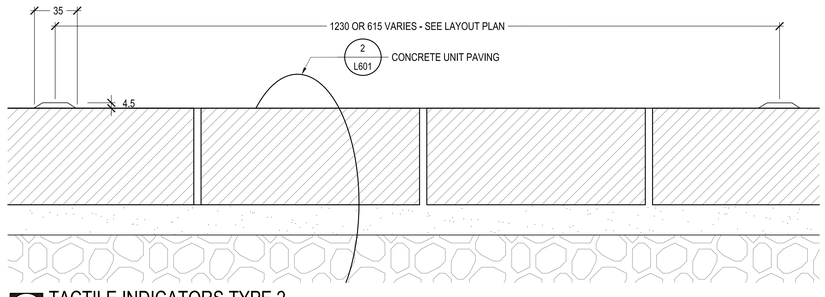
SCALE: NTS

NOTES:
1) PAVERS ADJACENT TO CONCRETE TRENCH DRAIN SURROUND TO BE INSTALLED 1/4" ABOVE CONCRETE EDGE TO ALLOW FOR SETTLEMENT



4 L602 TRENCH DRAIN & CONCRETE SURROUND

SCALE: 1:20

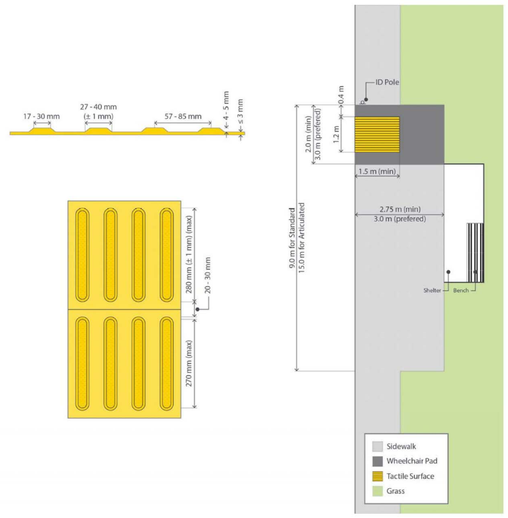


6 L602 TACTILE INDICATORS TYPE 2

SCALE: 1:2

APPENDIX F

Sample Bus Stop Configuration with TWSIs



BUS INFRASTRUCTURE DESIGN GUIDELINES TRANSLINK

5 L602 TACTILE INDICATORS TYPE 1

SCALE: 1:20

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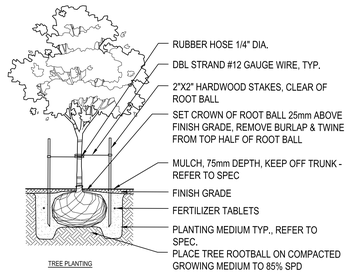
UBC GAGE SOUTH

LANDSCAPE DETAILS
SITE FURNISHINGS

DRAWN: NST/BL CHECKED: RD

L602

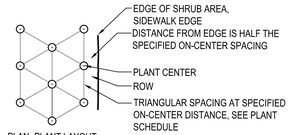
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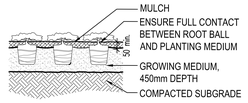
TREE PLANTING

1 TREE PLANTING

L701 SCALE: 1:50



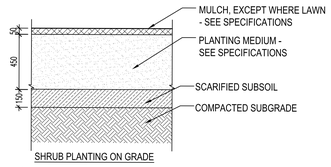
PLAN- PLANT LAYOUT



SECTION

2 SHRUB / GROUNDCOVER PLANTING

L701 SCALE: 1:20

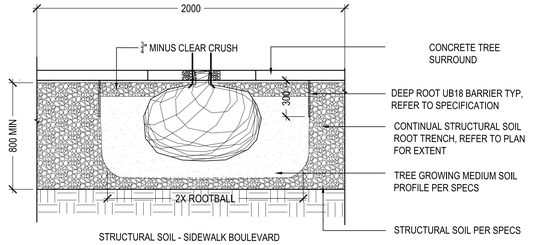


SHRUB PLANTING ON GRADE

NOTE:
FOR SOIL IN PLANTERS - SET TOP OF PLANTING MEDIUM 75 mm BELOW TOP OF WALL

3 SOIL PROFILES

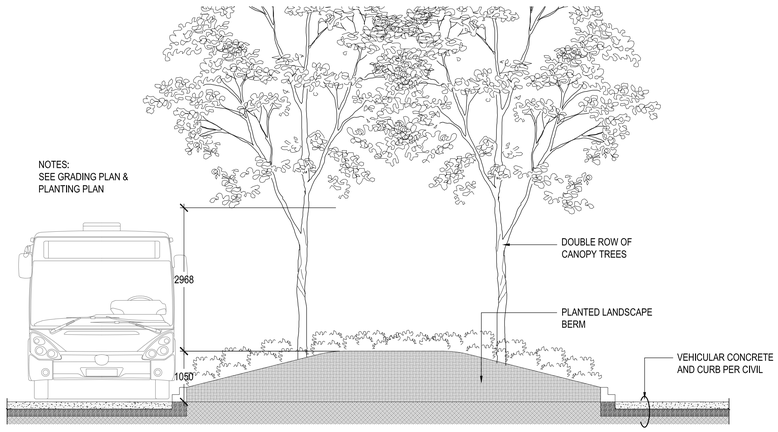
L701 SCALE: 1:20



STRUCTURAL SOIL - SIDEWALK BOULEVARD

4 STRUCTURAL SOIL TRENCH

L701 SCALE: 1:20



5 PLANTED LANDSCAPE BERM

L701 SCALE: 1:50

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UBC GAGE SOUTH

PLANTING DETAILS

DRAWN: NST/BL CHECKED: RD

L701

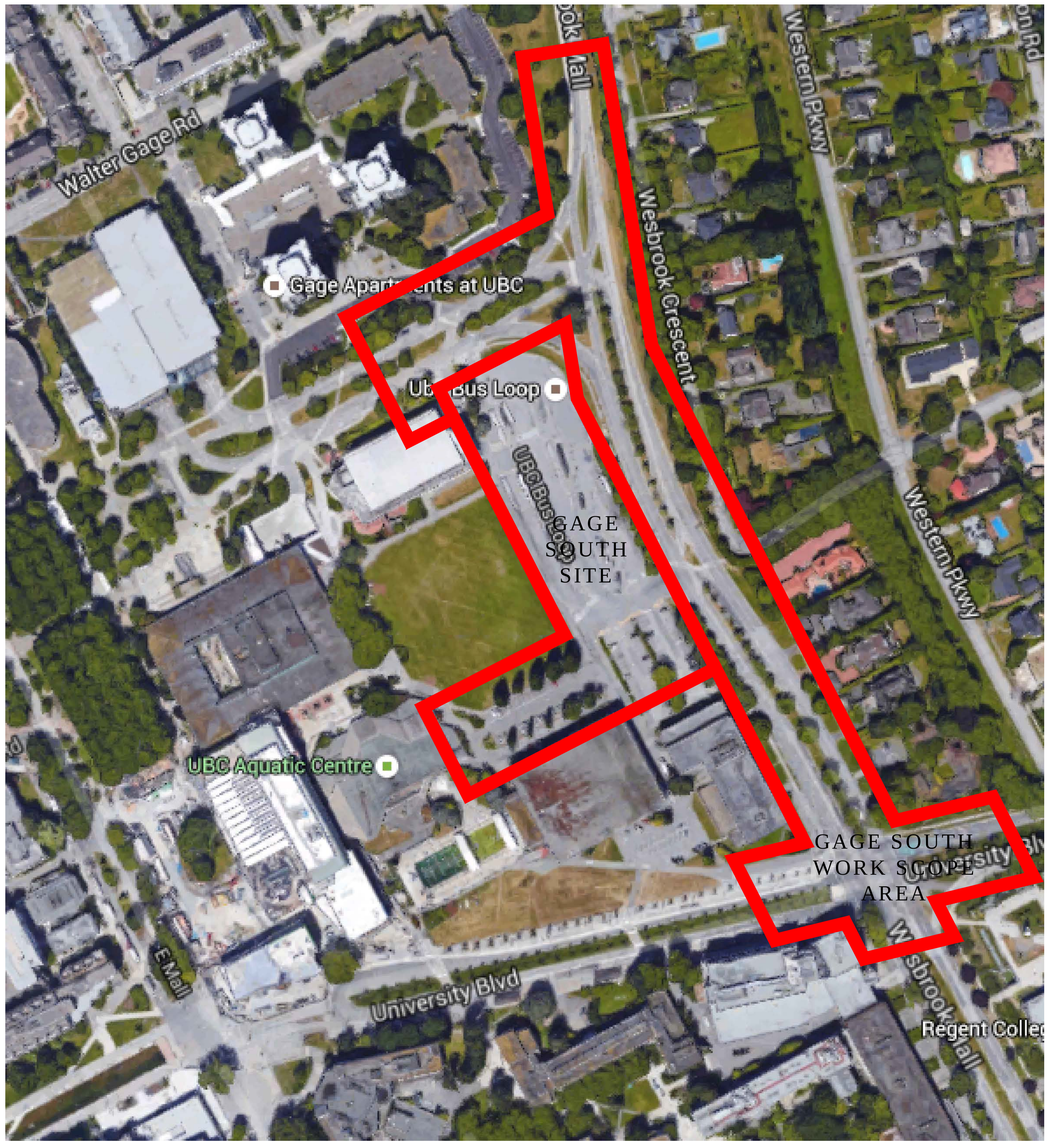
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GAGE SOUTH EXCHANGE

VANCOUVER, BC

DRAWING LIST

C0 – COVER SHEET
C1 – UTILITIES : EXISTING CONDITIONS
C2 – ABANDON AND DEMOLITION PLAN
C3 – NOTES, DETAILS & LINE / CURVE DATA
C4A – UTILITIES : OVERALL SITE SERVICING PLAN
C4B – UTILITIES : SITE SERVICING PLAN
C4C – UTILITIES : SITE SERVICING PLAN
C4D – UTILITIES : SITE SERVICING PLAN
C4E – UTILITIES : SITE SERVICING PLAN
C5 – PAVING – PLAN / PROFILE : STUDENT UNION BLVD.
C6 – PAVING – DETAILS : STUDENT UNION BLVD.
C7 – CROSS SECTIONS : STUDENT UNION BLVD.
C8 – PAVING – PLAN / PROFILE : WESBROOK MALL
C9 – PAVING – PLAN / PROFILE : WESBROOK MALL
C10 – PAVING – PLAN / PROFILE : WESBROOK MALL
C11 – PAVING – PLAN / PROFILE : WESBROOK MALL
C12 – PAVING – PLAN / PROFILE : WESBROOK MALL
C13 – PAVING – DETAILS : WESBROOK MALL
C14 – PAVING – DETAILS : WESBROOK MALL
C15 – PAVING – DETAILS : WESBROOK MALL
C16 – PAVING – DETAILS : WESBROOK MALL
C17 – CROSS SECTIONS : WESBROOK MALL
C18 – CROSS SECTIONS : WESBROOK MALL
C19 – CROSS SECTIONS : WESBROOK MALL
C20 – PAVING – PLAN / PROFILE : UNIVERSITY BLVD.
C21 – PAVING – PLAN / PROFILE : UNIVERSITY BLVD.
C22 – PAVING – DETAILS : UNIVERSITY BLVD.
C23 – PAVING – DETAILS : UNIVERSITY BLVD.
C24 – CROSS SECTIONS : UNIVERSITY BLVD.
C25 – CROSS SECTIONS : UNIVERSITY BLVD.
C26 – PAVING – PLAN / PROFILE : BUS LOOP ENTRANCE
C27 – PAVING – PLAN / PROFILE : BUS LOOP PODIUM
C28 – PAVING – GEOMETRY : BUS LOOP PODIUM
C29 – PAVING – GRADING : BUS LOOP PODIUM
C30 – PAVING – GRADING : BUS LOOP EXIT
C31 – PAVING – DETAILS : BUS LOOP
C32 – CROSS SECTIONS : BUS LOOP ENTRANCE
C33 – CROSS SECTIONS : BUS LOOP PODIUM
C34 – CROSS SECTIONS : BUS LOOP PODIUM
C35 – CROSS SECTIONS : BUS LOOP EXIT
C36 – STRIPING & SIGNAGE : STUDENT UNION BLVD. & WESBROOK MALL
C37 – STRIPING & SIGNAGE : WESBROOK MALL
C38 – STRIPING & SIGNAGE : WESBROOK MALL & UNIVERSITY BLVD.
C39 – STRIPING & SIGNAGE : BUS LOOP
C40 – STRIPING & SIGNAGE : BUS LOOP EXIT
C41A – UTILITIES – STORM SEWER : STUDENT UNION BLVD. & WESBROOK MALL
C41B – UTILITIES : PLAN/PROFILE – BUS LOOP STORM SEWER
C41C – UTILITIES : PLAN/PROFILE – WATER



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CoreGroup CONSULTANTS
LAND DEVELOPMENT SERVICES
320–8988 FRASERTON COURT
BURNABY, BC V5J 5H8
tel. (604)299 0605 fax. (604)299 0629

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GRAPHIC SCALE
−10 0 10 20
SCALE: 1:500

SEAL

UBC Gage South
ULTIMATE DESIGN

Civil Design
GAGE SOUTH
COVER SHEET

DRAWN: BC CHECKED: CN

C 0

CORE-1773

GENERAL NOTES :

1. CALL BC ONE–CALL 24 HOURS PRIOR TO CONSTRUCTION.
2. TOPOGRAPHIC SURVEY FOR THIS SITE PROVIDED BY MURRAY AND ASSOCIATES LAND SURVEYORS.
3. UTILITY TRENCH WIDTH VARIES WITH DIAMETER AND DEPTH OF UTILITY PIPE TO BE INSTALLED. MINIMUM WIDTH TYPICALLY 600mm OR AS PER MMCD STD. DET. G4.
4. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CIVIL AND OTHER DISCIPLINE'S DRAWINGS.
5. ALL EX. VALVES AND MANHOLES TO BE ADJUSTED TO SUIT NEW GRADES. ADJUSTED EX. WATER VALVES TO BE REPLACED WITH SQUARE ROBAR VALVE BOXES SUPPLIED BY DOBNEY OR APPROVED EQUIVALENT, VALVE # TO BE MARKED WITH GREASE PEN.
6. COORDINATE ALL EXCAVATIONS CLOSE TO BUILDING WITH SHORING PLANS BY GEOTECH.
7. ALL EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS UNLESS REMOVED ENTIRELY.

TESTING :

1. ALL TESTING TO BE PERFORMED BY A CSA OR COIL (CANADIAN CERTIFIED TESTING LABORATORIES) CERTIFIED LABORATORY.
2. FREQUENCY OF DENSITY TESTS FOR EXCAVATING, TRENCHING AND BACKFILLING SHALL BE ONE TEST PER 50 LINEAL METRES OR TRENCH PER METRE OF DEPTH. MATERIAL TO BE COMPACTED IN 300mm LIFTS.
3. FREQUENCY OF DENSITY TESTS FOR ROADWAY EXCAVATION, EMBANKMENT (SUB–GRADE FILL) AND COMPACTION SHALL BE ONE TEST PER 250m^2 PER 300mm LIFT.
4. FREQUENCY OF DENSITY TESTS FOR GRANULAR BASE AND SUB–BASE SHALL BE ONE TEST PER 30 LINEAL METRES OF LANE WIDTH STAGGERED EACH SIDE OF CENTRELINE PER 150mm LIFT OR OF SPECIFIED THICKNESS.
5. FREQUENCY OF DENSITY TESTS FOR SIDEWALK BASE SHALL BE ONE TEST PER 30 LINEAL METRES WITHIN SIDEWALK AND DRIVEWAY AREA.
6. FREQUENCY OF DENSITY TESTS FOR CURB BASE SHALL BE ONE TEST PER 100 LINEAL METRES.
7. FREQUENCY OF MARSHALL TESTS FOR HOT–MIX ASPHALT CONCRETE PAVING SHALL BE ONE TEST PER 500 TONNES OF MIX PLACED OR ONE TEST FOR EACH TYPE OF ASPHALT MIX, MINIMUM ONE PER DAY.
8. FOR PAVING, CORE LOCATIONS WILL BE SELECTED FOR EACH PASS OF THE PAVING MACHINE AS FOLLOWS:
   - 8.1. ACROSS THE WIDTH, CORE LOCATIONS WILL BE SELECTED RANDOMLY FROM ONE–SIXTH INCREMENTS.
   - 8.2. ALONG THE LENGTH, CORE LOCATIONS WILL HAVE A RANDOMLY SELECTED START WITH CORES AT A SPACING OF APPROXIMATELY, BUT NOT TO EXCEED 30 METRES.
   - 8.3. FOR OTHER PAVING OPERATIONS, A MINIMUM OF ONE CORE FOR EVERY 250 SQUARE METRES OF ASPHALT MIX PLACED.
9. FREQUENCY OF PLASTIC CONCRETE TESTS FOR SIDEWALK SHALL BE ONE TEST PER 150 LINEAL METRES OR A MINIMUM OF ONE PER DAY.
10. FREQUENCY OF PLASTIC CONCRETE TESTS FOR CURB AND GUTTER SHALL BE ONE TEST PER 300 LINEAR METRES OF A MINIMUM OF ONE PER DAY.
11. PRESSURE AND BACTERIOLOGICAL TESTING TO BE DONE BY CONTRACTOR PRIOR TO TIE–IN AND ACCEPTANCE BY UBC UTILITIES. ASSUMED TEST PRESSURE OF 1380 kPa (200 psi). THE CONTRACTOR SHALL TEST ALL WATERMAINS: PRESSURE TEST TO B.C. BUILDING CODE (2012) AND SHALL CHLORINATE AND FLUSH TO MINISTRY OF HEALTH AND AWWA STANDARDS. ALL TESTING IS TO BE WITNESSED BY THE ENGINEER AND THE UBC INSPECTOR. TESTING TO BE APPROVED BY UBC PRIOR TO TIE–IN TO MUNICIPAL WATER SYSTEM. ALL STORM AND SANITARY SYSTEMS TO BE TESTED PER SECTION 3.6 OF THE B.C. PLUMBING CODE. THE ENGINEER IS TO BE NOTIFIED 48 HOURS PRIOR TO TESTING.
12. STORM SEWERS SHALL BE VIDEO INSPECTED PER MMCD SPECIFICATIONS SECTION 02731.
13. SANITARY SEWERS SHALL BE PRESSURE TESTED AND VIDEO INSPECTED PER MMCD SPECIFICATIONS.
14. EXISTING SANITARY AND STORM SERVICE STUBS ARE TO BE CCTV INSPECTED AFTER SHORING. SUBMIT THE CCTV INSPECTION REPORTS AND VIDEOS TO UTILITIES TO ENSURE NO CONSTRUCTION DAMAGE ON EXISTING SERVICE STUBS.
15. ALL TESTING TO BE DONE AND APPROVED BEFORE BACKFILLING PIPE.

STORM & SANITARY SEWER NOTES :

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT UBC AND MMCD SPECIFICATIONS.
2. PIPE BEDDING SHALL BE GRANULAR PIPE BEDDING AND SURROUND MATERIAL CONFORMING TO MMCD CLAUSE 2.7, SECTION 02226.
3. PIPE BACKFILL SHALL BE 100mm PIT RUN GRAVEL MATERIAL CONFORMING TO MMCD CLAUSE 2.3, SECTION 02226.
4. ALL PIPES UP TO AND INCLUDING 525mmø PVC PIPE TO UBC SPECIFICATIONS AS FOLLOWS (UNLESS OTHERWISE NOTED) :
   - 150mmø & SMALLER SDR28
   - 200mmø TO 525mmø SDR35 TO ASTM 03034 SPECS.
5. ALL PIPES SHALL HAVE CLOSED JOINTS
6. PIPE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR PIPE DEPTH AND SLOPE PER SOIL CONDITIONS.
7. ALL SANITARY AND STORM SEWER MANHOLES TO BE 1050mmø WITH MARKINGS PER UBC REQUIREMENTS UNLESS OTHERWISE NOTED.
8. ALL CATCH BASIN LEADS SHALL HAVE A MINIMUM OF 1.0% GRADE.
9. ALL STORM MANHOLES TO BE BENCHED UNLESS NOTED OTHERWISE.
10. CONTRACTOR TO CONFIRM ANY FOUNDATION STABILIZATION REQUIREMENTS OF EXISTING STRUCTURES IN TRENCHING AREA WITH GEOTECHNICAL ENGINEER.
11. EXISTING SANITARY AND STORM SERVICE STUBS ARE TO BE CCTV INSPECTED AFTER SHORING. SUBMIT THE CCTV INSPECTION REPORTS AND VIDEOS TO UTILITIES TO ENSURE NO CONSTRUCTION DAMAGE ON EXISTING SERVICE STUBS.

WATER NOTES :

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MMCD AND UBC SPECIFICATIONS.
2. WATERMAIN TO HAVE MIN. 1.0m COVER.
3. PIPE BEDDING SHALL BE GRANULAR PIPE BEDDING AND SURROUND MATERIAL CONFORMING TO MMCD CLAUSE 2.7, SECTION 02226.
4. PIPE BACKFILL SHALL BE 100mm PIT RUN GRAVEL MATERIAL CONFORMING TO MMCD CLAUSE 2.3, SECTION 02226.
5. ALL PIPE TO BE CLASS 50 DUCTILE IRON MANUFACTURED TO AWWA C151; CEMENT MORTAR LINED TO AWWA C104 AND COATED 1 MIL. THICK ASPHALT.
6. PRESSURE AND BACTERIOLOGICAL TESTING TO BE DONE BY CONTRACTOR PRIOR TO TIE–IN AND ACCEPTANCE BY UBC UTILITIES. ASSUMED TEST PRESSURE OF 1380 kPa (200 psi).
7. WATER MAIN OR SERVICE PIPE WALLS TO HAVE WRAPPED JOINTS PER LOCAL & MUNICIPAL HEALTH STANDARDS IF CLOSER THAN 0.5m VERTICAL OR 3.0m HORIZONTAL TO SANITARY OR STORM MAIN PIPE WALLS.
8. VALVE, VALVE BOXES, COMPONENTS & HYDRANTS TO BE PER UBC TECHNICAL GUIDELINES SECTION 02660, CLAUSE 2.7 AND 2.8. CIRCULAR VALVE BOXES SHALL BE NELSON TYPE.
9. ALL WATER VALVE KNUCKLES TO BE RAISED TO 0.6m BELOW FINAL GRADE.
10. ALL WATER MAIN JOINTS TO BE RESTRAINED.
11. ALL WATER MAIN FITTINGS TO BE INSTALLED WITH THRUST BLOCKS PER MMCD.
12. ALL TESTING TO BE DONE AND APPROVED BEFORE BACKFILLING PIPE.
13. WHERE CONTROLLED DENSITY FILL (CDF) OR CONCRETE IS USED, 6 MIL POLY BARRIER TO BE PLACED BETWEEN CDF/CONCRETE AND WATER MAIN/FITTINGS.

ROADWORKS NOTES :

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MMCD AND UBC SPECIFICATIONS.
2. GEOTECHNICAL ENGINEER TO APPROVE ALL SUBGRADES PRIOR TO PLACING BASE MATERIALS.
3. ALL SUBGRADES AND BASE MATERIALS SHALL BE COMPACTED TO 95% MPD. ALL MATERIALS IN ACCORDANCE WITH MMCD STANDARDS.
4. COMPACTION TESTING, ASPHALT TESTING AND CONCRETE TESTING BY CONTRACTOR.
5. ALL PAVEMENT MARKINGS TO BE INCLUDED IN CONTRACT.
6. ALL CONCRETE PAVEMENT AND CONCRETE REINFORCEMENT TO BE IN ACCORDANCE WITH MMCD SECTION 03 20 01, 03 30 20, 32 13 13, AND 03 30 53.
7. CONCRETE MIX TO BE TO SECTION 03 30 53 :
   PORTLAND CEMENT : TYPE 10
   EXPOSURE CLASS : C–2
   SLUMP : 80mm
   AIR ENTRAINMENT : 5% – 8%
   MAX. AGGREGATE SIZE : 20mm
   MIN. 28 DAY COMPRESSIVE STRENGTH : 32 MPa
   MAX. WATER/CEMENT RATIO : 0.45

CURVE TABLE (ROAD BASELINE)			
CURVE	DELTA	RADIUS	ARC
BC200	18°18'57"	20.000	6.393
BC201	3°29'23"	800.200	48.737
BC202	7°05'42"	350.200	43.365
BC203	5°11'44"	70.000	6.348
BC204	4°16'46"	269.200	20.107
BC205	2°51'09"	200.000	9.957
BC206	4°03'48"	250.000	17.730
BC207	4°23'20"	100.000	7.660
BC208	5°57'28"	196.100	20.391
BC209	11°59'35"	8.250	1.727

LINE TABLE (ROAD BASELINE)		
LINE	BEARING	DISTANCE
BL200	N61°56'58"E	125.501
BL201	N80°15'55"E	10.496
BL202	S6°53'18"E	39.305
BL203	S12°36'07"E	3.802
BL204	S19°41'48"E	42.809
BL205	S29°10'18"E	25.621
BL206	S32°01'27"E	67.374
BL207	S27°57'39"E	163.627
BL208	S28°04'28"E	47.905
BL209	N77°14'30"E	125.954
BL210	N72°51'10"E	116.169
BL211	N78°48'38"E	9.826
BL212	N61°56'37"E	60.045
BL213	N73°56'12"E	21.610
BL214	N77°19'14"E	7.700
BL215	S28°03'23"E	146.964
BL216	N61°54'40"E	165.145

CURVE TABLE (FACE OF TEMP. CURB)			
CURVE	DELTA	RADIUS	ARC
C1	33°07'33"	30.00	17.34

LINE TABLE (FACE OF TEMP. CURB)		
LINE	BEARING	DISTANCE
L1	S61°56'58"W	1.164
L2	N5°22'18"W	11.522
L3	N14°07'48"W	14.044
L4	S30°56'13"E	30.323
L5	S28°01'37"E	2.446
L6	S30°56'13"E	32.772
L7	S25°46'26"E	31.504
L8	S28°04'28"E	1.993
L9	S27°44'45"E	5.183

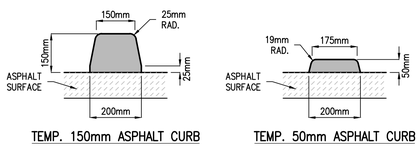
LINE TABLE		
LINE	BEARING	DISTANCE
L300	S28°03'23"E	17.234
L301	S61°56'21"W	3.314
L302	S28°03'23"E	19.800
L303	N61°56'21"E	3.486
L304	S61°56'37"W	3.500
L305	S28°03'23"E	19.800
L306	N61°56'37"E	3.500
L307	S73°03'23"E	6.026
L308	S16°56'37"W	1.744
L309	S28°03'23"E	95.494
L310	N61°56'37"E	13.500
L311	N61°54'31"E	18.474
L312	N28°03'23"W	80.649
L313	S61°56'37"W	7.000
L314	S28°03'23"E	106.756
L315	N61°54'31"E	8.978

CURVE TABLE (FACE OF CURB)			
CURVE	DELTA	RADIUS	ARC
FC1	67°19'16"	9.000	10.575
FC2	7°15'25"	30.000	3.800
FC3	172°44'35"	1.450	4.372
FC4	106°59'44"	9.000	16.807
FC5	1°09'05"	807.900	16.233
FC6	86°08'35"	6.000	9.021
FC7	90°00'00"	10.700	16.808
FC8	89°58'02"	8.500	13.347
FC9	92°12'11"	3.000	4.828
FC10	5°50'12"	355.750	36.240
FC11	2°26'53"	363.250	15.520
FC12	7°01'37"	273.850	33.586
FC13	91°04'57"	5.000	7.948
FC14	180°00'00"	4.436	13.935
FC15	55°09'00"	3.500	3.369
FC16	55°09'00"	3.500	3.369
FC17	55°09'00"	3.500	3.369
FC18	55°09'00"	3.500	3.369
FC19	89°58'02"	8.500	13.347
FC20	45°00'00"	0.600	0.471
FC21	38°55'53"	0.600	0.408
FC22	9°11'39"	3.000	0.481
FC23	9°11'39"	1.000	0.160
FC24	16°02'09"	1.000	0.280
FC25	118°01'44"	4.000	8.240
FC26	90°17'47"	5.000	7.880
FC27	15°39'50"	30.000	8.202
FC28	0°09'37"	1867.903	5.228
FC29	0°03'41"	1870.563	2.001
FC30	88°11'00"	6.000	9.235
FC31	17°00'16"	13.000	3.858
FC32	0°34'57"	792.500	8.059
FC33	3°14'31"	794.650	44.964
FC34	7°05'41"	344.650	42.677
FC35	2°42'56"	352.150	16.690
FC36	4°08'11"	152.150	10.984
FC37	5°28'32"	345.550	33.022
FC38	3°41'58"	408.100	26.349
FC39	76°11'07"	12.000	15.956
FC40	3°00'05"	200.000	10.477
FC41	100°21'43"	4.000	7.007
FC42	4°47'54"	269.700	22.586
FC43	171°57'00"	0.500	1.501
FC44	0°20'22"	151.987	0.901
FC45	3°09'20"	349.700	19.260
FC46	3°19'27"	156.300	9.068
FC47	11°57'48"	59.700	12.465
FC48	169°11'08"	0.600	1.772
FC49	1°31'39"	295.200	7.870
FC50	3°43'41"	119.700	7.789
FC51	4°27'40"	100.300	7.809
FC52	0°44'19"	1878.202	24.215
FC53	180°00'00"	0.300	0.942
FC54	3°41'47"	401.800	25.923

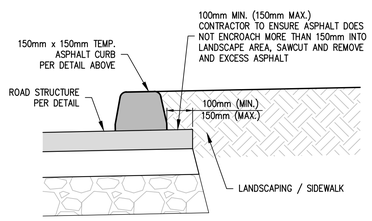
CURVE TABLE (FACE OF CURB)			
CURVE	DELTA	RADIUS	ARC
FC55	176°15'20"	0.950	2.923
FC56	71°11'54"	3.200	3.976
FC57	100°53'53"	3.200	5.635
FC58	29°01'24"	5.000	2.533
FC59	25°19'43"	5.000	2.210
FC60	79°04'22"	6.000	8.280
FC61	0°33'47"	503.850	4.951
FC62	0°33'47"	499.700	4.910
FC63	180°00'00"	0.300	0.942
FC64	10°44'05"	100.300	18.792
FC65	10°44'05"	99.700	18.679
FC66	80°44'44"	9.000	12.683
FC67	20°10'56"	14.000	4.931
FC68	4°37'57"	179.000	14.473
FC69	94°45'08"	5.000	8.269
FC70	4°37'57"	185.000	14.958
FC71	180°00'00"	1.000	3.142
FC72	8°54'58"	120.000	18.674
FC73	8°54'58"	120.000	18.674
FC74	71°03'34"	3.000	3.721
FC75	101°56'58"	3.000	5.338
FC76	5°57'28"	200.000	20.796
FC77	78°22'16"	7.000	9.575
FC78	5°07'17"	205.900	18.405
FC79	90°00'00"	1.500	2.356
FC80	90°00'00"	1.500	2.356
FC81	90°00'00"	1.500	2.356
FC82	90°00'00"	1.500	2.356
FC83	90°00'00"	1.500	2.356
FC84	90°00'00"	1.500	2.356
FC85	90°00'00"	1.500	2.356
FC86	90°00'00"	1.500	2.356
FC87	90°00'00"	1.500	2.356
FC88	90°00'00"	1.500	2.356
FC89	90°00'00"	1.500	2.356
FC90	90°00'00"	1.500	2.356
FC91	90°00'00"	1.500	2.356
FC92	90°00'00"	1.500	2.356
FC93	90°00'00"	1.500	2.356
FC94	90°00'00"	1.500	2.356
FC95	90°00'00"	1.500	2.356
FC96	90°00'00"	1.500	2.356
FC97	90°00'00"	1.500	2.356
FC98	90°00'00"	1.500	2.356
FC99	45°00'00"	1.000	0.785
FC100	90°00'00"	1.000	1.571
FC101	90°01'58"	1.000	1.571
FC102	39°45'34"	1.000	0.694
FC103	95°12'28"	6.400	10.635
FC104	3°42'03"	50.000	3.230
FC105	4°32'58"	10.000	0.794
FC106	11°34'23"	3.150	6.244
FC107	76°42'57"	4.500	6.025

LINE TABLE (FACE OF CURB)		
LINE	BEARING	DISTANCE
FL1	S5°22'18"E	10.624
FL2	S61°56'58"W	18.485
FL3	N61°56'58"E	69.479
FL4	N69°12'23"E	8.481
FL5	S61°56'58"W	81.498
FL6	N61°56'58"E	75.878
FL7	S73°56'12"W	42.476
FL8	S61°56'37"W	15.444
FL9	S28°03'23"E	126.708
FL10	S19°41'48"E	20.952
FL11	S29°10'18"E	24.777
FL12	S29°10'18"E	10.090
FL13	S61°54'40"W	134.612
FL14	N61°54'40"E	88.702
FL15	N61°54'40"E	16.500
FL16	N61°54'40"E	3.907
FL17	N28°03'23"W	52.856
FL18	N73°03'23"W	2.423
FL19	N34°07'30"W	8.079
FL20	N28°03'23"W	19.636
FL21	N18°51'44"W	21.007
FL22	N28°03'23"W	19.513
FL23	N44°05'32"W	6.875
FL24	N73°56'12"E	18.253
FL25	N68°16'34"E	7.004
FL26	N43°20'26"E	8.597
FL27	S46°21'47"E	2.311
FL28	S30°41'57"E	14.327
FL29	S28°19'32"E	5.317
FL30	S44°23'13"E	11.928
FL31	S28°19'32"E	24.110
FL32	S29°34'46"E	16.572
FL33	S27°57'39"E	42.180
FL34	S27°57'36"E	0.906
FL35	S60°13'21"W	6.781
FL36	S77°13'36"W	5.451
FL37	S8°21'35"E	1.462
FL38	S14°07'48"E	10.155
FL39	S12°36'07"E	3.802
FL40	S19°41'48"E	20.952
FL41	S22°24'44"E	18.798
FL42	S32°01'27"E	21.662
FL43	S32°01'27"E	34.516
FL44	S27°57'39"E	74.180
FL45	N75°51'14"E	12.980
FL46	N72°51'10"E	55.595
FL47	S29°10'18"E	18.988
FL48	N29°10'18"W	3.377
FL49	N30°41'57"W	20.939
FL50	N34°25'38"W	24.215
FL51	N27°57'39"W	46.462
FL52	S27°57'39"E	77.878
FL53	S32°01'27"E	38.861

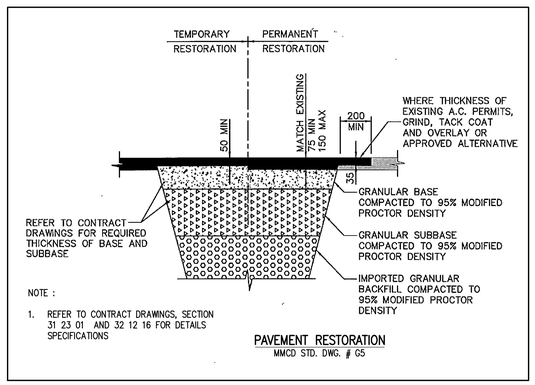
LINE TABLE (FACE OF CURB)		
LINE	BEARING	DISTANCE
FL54	N77°03'20"E	4.837
FL55	S28°02'44"E	0.458
FL56	S77°24'08"W	0.813
FL57	N72°51'10"E	11.905
FL58	S28°04'28"E	12.377
FL59	S28°04'28"E	14.359
FL60	S28°38'15"E	29.509
FL61	N28°38'15"W	32.732
FL62	N28°04'28"W	21.957
FL63	S28°04'28"E	12.520
FL64	S28°04'28"E	9.825
FL65	N28°04'28"W	53.024
FL66	N52°40'16"E	4.251
FL67	N72°51'10"E	26.184
FL68	N77°29'07"E	29.137
FL69	S72°51'10"W	38.683
FL70	N72°51'10"E	34.311
FL71	N72°51'10"E	9.032
FL72	N72°51'10"E	15.708
FL73	S29°07'52"E	4.045
FL74	N72°51'10"E	15.010
FL75	N73°03'23"W	22.626
FL76	S16°56'37"W	0.600
FL77	S73°03'23"E	22.626
FL78	N16°56'37"E	0.600
FL79	N73°03'23"W	22.626
FL80	S16°56'37"W	0.600
FL81	S73°03'23"E	22.626
FL82	N16°56'37"E	0.600
FL83	N73°03'23"W	22.626
FL84	S16°56'37"W	0.600
FL85	S73°03'23"E	22.626
FL86	N16°56'37"E	0.600
FL87	S73°03'23"E	22.626
FL88	N16°56'37"E	0.600
FL89	N73°03'23"W	22.626
FL90	S16°56'37"W	0.600
FL91	S73°03'23"E	22.626
FL92	N16°56'37"E	0.600
FL93	N73°03'23"W	22.626
FL94	S16°56'37"W	0.600
FL95	N73°03'23"W	22.331
FL96	S61°56'37"W	1.621
FL97	S28°03'23"E	27.142
FL98	N61°54'40"E	12.996
FL99	N22°08'05"E	5.275
FL100	N80°45'23"E	7.659
FL101	S72°51'10"W	8.429
FL102	N77°29'07"E	27.124
FL103	N36°05'16"W	1.593
FL104	N29°05'48"W	1.908
FL105	S74°11'15"W	1.033
FL106	N77°24'10"E	3.006



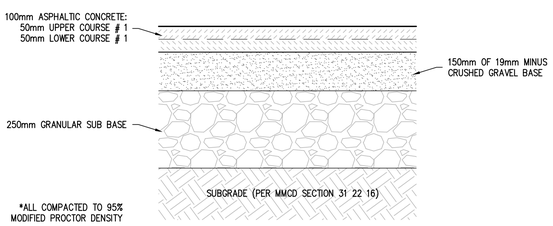
TEMP. 150mm ASPHALT CURB | TEMP. 50mm ASPHALT CURB



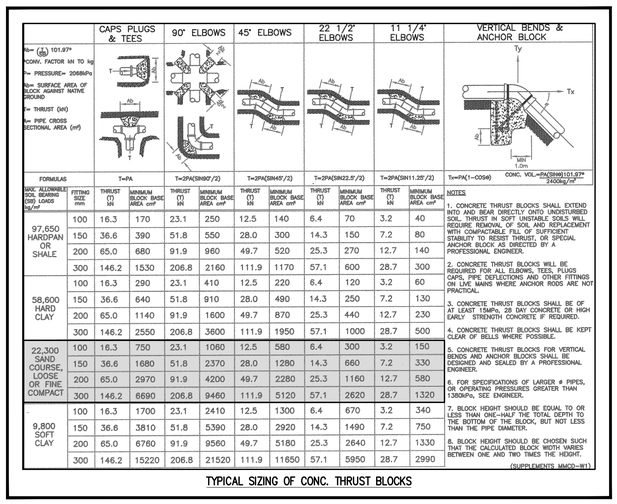
TEMP. ASPHALT CURB
SECTION



PAVEMENT RESTORATION
MMCD STD. DWG. # G5



ASPHALT PAVEMENT SPECS.
STUDENT UNION BLVD. & WESBROOK MALL SPEC.



TYPICAL SIZING OF CONC. THRUST BLOCKS

DIALOG®

CoreGroup CONSULTANTS
LAND DEVELOPMENT SERVICES
320–8088 FRASERTON COURT
BURNABY, BC V5J 5H8
tel. (604)299 0605 fax. (604)299 0629

ISSUED FOR
2016–09–23 / REVISED FOR DP

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GRAPHIC SCALE
–10 0 10 20
SCALE: 1:500

SEAL

UBC Gage South
ULTIMATE DESIGN

Civil Design
NOTES, DETAILS, & LINE / CURVE DATA

DRAWN: BC CHECKED: CN

C 3

CORE-1773



LEGEND

EX. WATER	W
EX. WATER – IRRIGATION	W
EX. SANITARY SEWER	S
EX. STORM SEWER	D
EX. GAS	G
EX. STEAM	
EX. HYDRO	H
EX. TEL / COMM	T
DISTRICT HOT WATER ALIGNMENT	DHW
ABND. WATER	
ABND. SANITARY SEWER	
ABND. STORM SEWER	
ABND. GAS	
ABND. STEAM	
PROP. WATER	W
PROP. SANITARY SEWER	S
PROP. STORM SEWER	D
PROP. UBC HYDRO	H

INFORMATION ON EXISTING UTILITIES MAY NOT BE COMPLETE OR ACCURATE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING UTILITIES AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

GENERAL NOTES :

1. FOR NOTES AND DETAILS SEE DWG 4B TO 4E.
2. FOR UTILITY PLAN PROFILES SEE DWGS C41A TO C41C.
3. CALL BC ONE-CALL 24 HOURS PRIOR TO CONSTRUCTION.
4. TOPOGRAPHIC SURVEY FOR THIS SITE PROVIDED BY MURRAY AND ASSOCIATES LAND SURVEYORS.
5. UTILITY TRENCH WIDTH VARIES WITH DIAMETER AND DEPTH OF UTILITY PIPE TO BE INSTALLED. MINIMUM WIDTH TYPICALLY 600mm OR AS SHOWN.
6. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CIVIL AND OTHER DISCIPLINE'S DRAWINGS.
7. ALL EX. VALVES AND MANHOLES TO BE ADJUSTED TO SUIT NEW GRADES. ADJUSTED EX. WATER VALVES TO BE REPLACED WITH SQUARE ROBAR VALVE BOXES SUPPLIED BY DOBNEY OR APPROVED EQUIVALENT, VALVE # TO BE MARKED WITH GREASE PEN.
8. ALL EXISTING UTILITIES TO BE ABANDONED ARE TO BE CAPPED AT BOTH ENDS UNLESS REMOVED ENTIRELY.

DIALOG®

CoreGroup CONSULTANTS
LAND DEVELOPMENT SERVICES
320-8088 FRASERTON COURT
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tel. (604)299 0605 fax. (604)299 0629

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SCALE: 1:750

SEAL

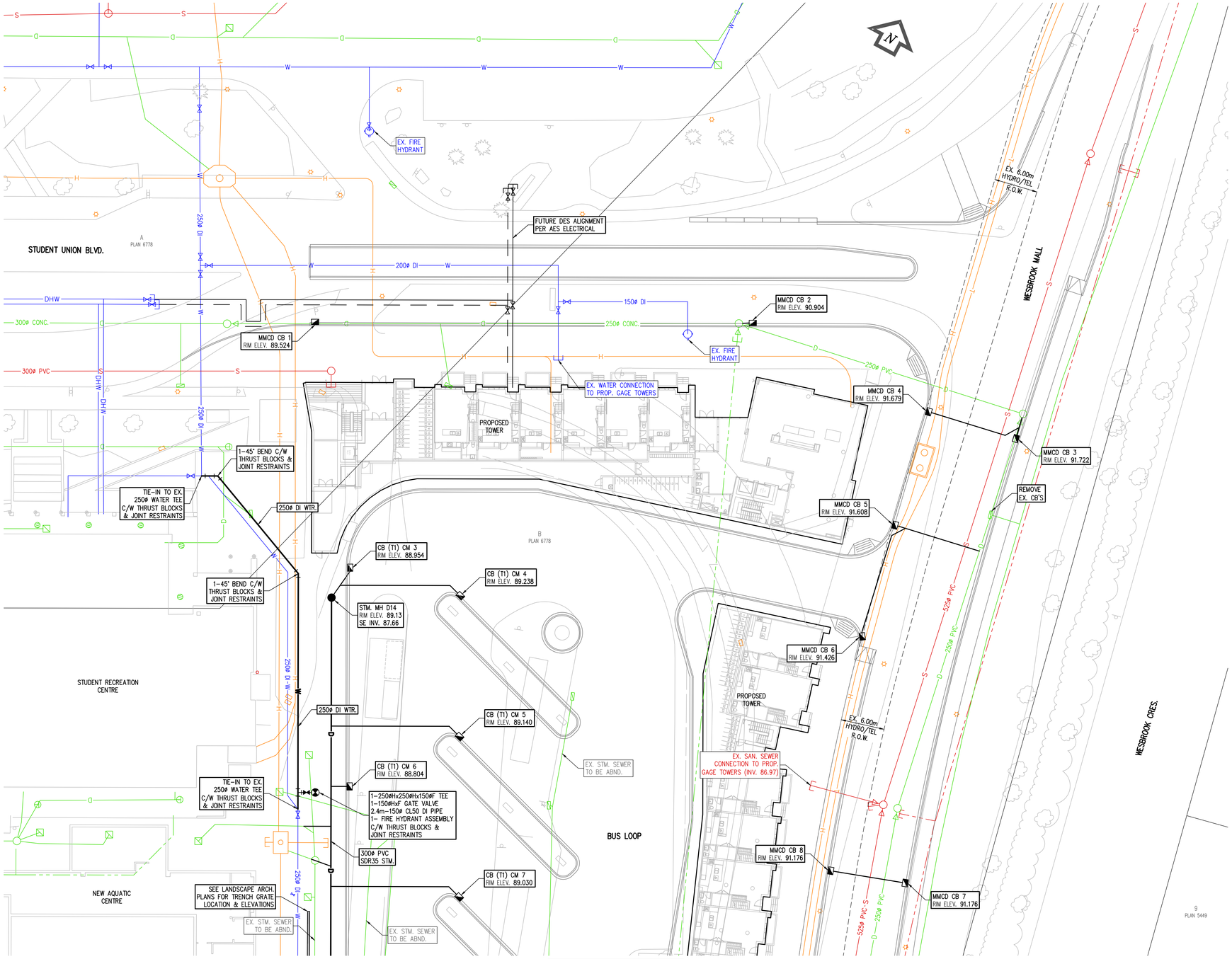
UBC Gage South
ULTIMATE DESIGN
UNDERGROUND WORKS

Civil Design
UTILITIES - OVERALL
SITE SERVICING

DRAWN: BC CHECKED: CN

C 4A

CORE-1773



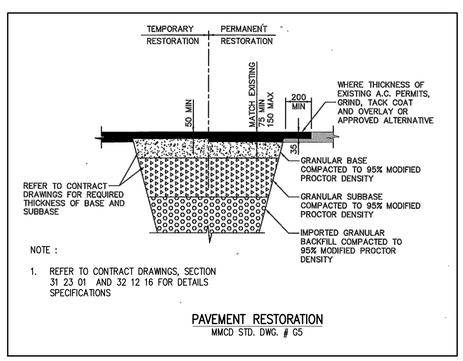
FOR CONTINUATION SEE DWG C4C

LEGEND

EX. WATER	W	ABND. WATER	
EX. WATER – IRRIGATION	W	ABND. SANITARY SEWER	
EX. SANITARY SEWER	S	ABND. STORM SEWER	
EX. STORM SEWER	D	ABND. GAS	
EX. GAS	G	ABND. STEAM	
EX. STEAM		PROP. WATER	W
EX. HYDRO	H	PROP. SANITARY SEWER	S
EX. TEL / COMM	T	PROP. STORM SEWER	D
DISTRICT HOT WATER ALIGNMENT	DHW	PROP. UBC HYDRO	H

GENERAL NOTES:

1. FOR NOTES AND DETAILS SEE DWG C4B TO 4E.
2. FOR UTILITY PLAN PROFILES SEE DWGS C41A TO C41C.
3. CALL BC ONE-CALL 24 HOURS PRIOR TO CONSTRUCTION.
4. COORDINATE ALL EXCAVATIONS CLOSE TO BUILDING WITH SHORING PLANS BY GEOTECH.
5. UTILITY TRENCH WIDTH VARIES WITH DIAMETER AND DEPTH OF UTILITY PIPE TO BE INSTALLED. MINIMUM WIDTH TYPICALLY 600mm OR AS PER MMCD STD. DET. G4.
6. TOPOGRAPHIC SURVEY FOR THIS SITE PROVIDED BY MURRAY AND ASSOCIATES LAND SURVEYORS.
7. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CIVIL AND OTHER DISCIPLINE'S DRAWINGS.
8. ALL EX. VALVES AND MANHOLES TO BE ADJUSTED TO SUIT NEW GRADES. ADJUSTED EX. WATER VALVES TO BE REPLACED WITH SQUARE ROBAR VALVE BOXES SUPPLIED BY DORNEY OR APPROVED EQUIVALENT, VALVE # TO BE MARKED WITH GREASE PEN.
9. ALL NEW WATER VALVES TO BE TAGGED BY UBC (TYP.)



PAVEMENT RESTORATION
MMCD STD. DWG. # G5

WATER NOTES :

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH MMCD AND UBC SPECIFICATIONS.
2. WATERMAIN TO HAVE MIN. 1.0m COVER.
3. PIPE BEDDING SHALL BE GRANULAR PIPE BEDDING AND SURROUND MATERIAL CONFORMING TO MMCD CLAUSE 2.7, SECTION 02226.
4. PIPE BACKFILL SHALL BE 100mm PIT RUN GRAVEL MATERIAL CONFORMING TO MMCD CLAUSE 2.3, SECTION 02226.
5. ALL PIPE TO BE CLASS 50 DUCTILE IRON MANUFACTURED TO AWWA C151; CEMENT MORTAR LINED TO AWWA C104 AND COATED 1 MIL. THICK ASPHALT.
6. PRESSURE AND BACTERIOLOGICAL TESTING TO BE DONE BY CONTRACTOR PRIOR TO TIE-IN AND ACCEPTANCE BY UBC UTILITIES. ASSUMED TEST PRESSURE OF 1380 kPa (200 psi).
7. WATER MAIN OR SERVICE PIPE WALLS TO HAVE WRAPPED JOINTS PER LOCAL & MUNICIPAL HEALTH STANDARDS IF CLOSER THAN 0.5m VERTICAL OR 3.0m HORIZONTAL TO SANITARY OR STORM MAIN PIPE WALLS.
8. VALVE, VALVE BOXES, COMPONENTS & HYDRANTS TO BE PER UBC TECHNICAL GUIDELINES SECTION 02660, CLAUSE 2.7 AND 2.8. CIRCULAR VALVE BOXES SHALL BE NELSON TYPE.
9. ALL WATER VALVE KNUCKLES TO BE RAISED TO 0.6m BELOW FINAL GRADE.
10. ALL WATER MAIN JOINTS TO BE RESTRAINED.
11. ALL WATER MAIN FITTINGS TO BE INSTALLED WITH THRUST BLOCKS PER MMCD.
12. ALL TESTING TO BE DONE AND APPROVED BEFORE BACKFILLING PIPE.
13. WHERE CONTROLLED DENSITY FILL (CDF) OR CONCRETE IS USED, 6 MIL POLY BARRIER TO BE PLACED BETWEEN CDF/CONCRETE AND WATER MAIN/FITTINGS.

STORM & SANITARY SEWER NOTES :

1. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH CURRENT UBC AND MMCD SPECIFICATIONS.
2. PIPE BEDDING SHALL BE GRANULAR PIPE BEDDING AND SURROUND MATERIAL CONFORMING TO MMCD CLAUSE 2.7, SECTION 02226.
3. PIPE BACKFILL SHALL BE 100mm PIT RUN GRAVEL MATERIAL CONFORMING TO MMCD CLAUSE 2.3, SECTION 02226.
4. ALL PIPES UP TO AND INCLUDING 525mmø PVC PIPE TO UBC SPECIFICATIONS AS FOLLOWS (UNLESS OTHERWISE NOTED) :
   - 150mmø & SMALLER SDR28
   - 200mmø TO 525mmø SDR35 TO ASTM 03034 SPECS.
5. ALL PIPES SHALL HAVE CLOSED JOINTS
6. PIPE TO BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS FOR PIPE DEPTH AND SLOPE PER SOIL CONDITIONS.
7. ALL SANITARY AND STORM SEWER MANHOLES TO BE 1050mmø WITH MARKINGS PER UBC REQUIREMENTS UNLESS OTHERWISE NOTED.
8. ALL CATCH BASIN LEADS SHALL HAVE A MINIMUM OF 1.0% GRADE.
9. ALL STORM MANHOLES TO BE BENCHED UNLESS NOTED OTHERWISE.
10. CONTRACTOR TO CONFIRM ANY FOUNDATION STABILIZATION REQUIREMENTS OF EXISTING STRUCTURES IN TRENCHING AREA WITH GEOTECHNICAL ENGINEER.
11. EXISTING SANITARY AND STORM SERVICE STUBS ARE TO BE CCTV INSPECTED AFTER SHORING. SUBMIT THE CCTV INSPECTION REPORTS AND VIDEOS TO UTILITIES TO ENSURE NO CONSTRUCTION DAMAGE ON EXISTING SERVICE STUBS.
12. MMCD CB : PER MMCD STD. DET. S11
13. (T1) CM CB : PER COAST MOUNTAIN CATCHBASIN TYPE 1 DETAIL C/W TRAPPING HOOD
14. COMBINATION INLET CM CB : PER COAST MOUNTAIN COMBINATION INLET DETAIL (C/W TRAPPING HOOD)
15. ALL MMCD CB LEADS TO BE 150ø PVC UNLESS OTHERWISE NOTED, ALL CM (COAST MOUNTAIN) CB LEADS TO BE 200ø PVC UNLESS OTHERWISE NOTED

TESTING :

1. ALL TESTING TO BE PERFORMED BY A CSA OR CCIL (CANADIAN CERTIFIED TESTING LABORATORIES) CERTIFIED LABORATORY.
2. FREQUENCY OF DENSITY TESTS FOR EXCAVATING, TRENCHING AND BACKFILLING SHALL BE ONE TEST PER 50 LINEAL METRES OR TRENCH PER METRE OF DEPTH. MATERIAL TO BE COMPACTED IN 300mm LIFTS.
3. FREQUENCY OF DENSITY TESTS FOR ROADWAY EXCAVATION, EMBANKMENT (SUB-GRADE FILL) AND COMPACTION SHALL BE ONE TEST PER 250m² PER 300mm LIFT.
4. FREQUENCY OF DENSITY TESTS FOR GRANULAR BASE AND SUB-BASE SHALL BE ONE TEST PER 30 LINEAL METRES OF LANE WIDTH STAGGERED EACH SIDE OF CENTRELINE PER 150mm LIFT OR OF SPECIFIED THICKNESS.
5. FREQUENCY OF DENSITY TESTS FOR SIDEWALK BASE SHALL BE ONE TEST PER 30 LINEAL METRES WITHIN SIDEWALK AND DRIVEWAY AREA.
6. FREQUENCY OF DENSITY TESTS FOR CURB BASE SHALL BE ONE TEST PER 100 LINEAL METRES.
7. FREQUENCY OF MARSHALL TESTS FOR HOT-MIX ASPHALT CONCRETE PAVING SHALL BE ONE TEST PER 500 TONNES OF MIX PLACED OR ONE TEST FOR EACH TYPE OF ASPHALT MIX, MINIMUM ONE PER DAY.
8. FOR PAVING, CORE LOCATIONS WILL BE SELECTED FOR EACH PASS OF THE PAVING MACHINE AS FOLLOWS:
   - 8.1. ACROSS THE WIDTH, CORE LOCATIONS WILL BE SELECTED RANDOMLY FROM ONE-SIXTH INCREMENTS.
   - 8.2. ALONG THE LENGTH, CORE LOCATIONS WILL HAVE A RANDOMLY SELECTED START WITH CORES AT A SPACING OF APPROXIMATELY, BUT NOT TO EXCEED 30 METRES.
   - 8.3. FOR OTHER PAVING OPERATIONS, A MINIMUM OF ONE CORE FOR EVERY 250 SQUARE METRES OF ASPHALT MIX PLACED.
9. FREQUENCY OF PLASTIC CONCRETE TESTS FOR SIDEWALK SHALL BE ONE TEST PER 150 LINEAL METRES OR A MINIMUM OF ONE PER DAY.
10. FREQUENCY OF PLASTIC CONCRETE TESTS FOR CURB AND GUTTER SHALL BE ONE TEST PER 300 LINEAR METRES OF A MINIMUM OF ONE PER DAY.
11. PRESSURE AND BACTERIOLOGICAL TESTING TO BE DONE BY CONTRACTOR PRIOR TO TIE-IN AND ACCEPTANCE BY UBC UTILITIES. ASSUMED TEST PRESSURE OF 1380 kPa (200 psi). THE CONTRACTOR SHALL TEST ALL WATERMAINS: PRESSURE TEST TO B.C. BUILDING CODE (2012) AND SHALL CHLORINATE AND FLUSH TO MINISTRY OF HEALTH AND AWWA STANDARDS. ALL TESTING IS TO BE WITNESSED BY THE ENGINEER AND THE UBC INSPECTOR. TESTING TO BE APPROVED BY UBC PRIOR TO TIE-IN TO MUNICIPAL WATER SYSTEM. ALL STORM AND SANITARY SYSTEMS TO BE TESTED PER SECTION 3.6 OF THE B.C. PLUMBING CODE. THE ENGINEER IS TO BE NOTIFIED 48 HOURS PRIOR TO TESTING.
12. STORM SEWERS SHALL BE VIDEO INSPECTED PER MMCD SPECIFICATIONS SECTION 02731.
13. SANITARY SEWERS SHALL BE PRESSURE TESTED AND VIDEO INSPECTED PER MMCD SPECIFICATIONS.
14. EXISTING SANITARY AND STORM SERVICE STUBS ARE TO BE CCTV INSPECTED AFTER SHORING. SUBMIT THE CCTV INSPECTION REPORTS AND VIDEOS TO UTILITIES TO ENSURE NO CONSTRUCTION DAMAGE ON EXISTING SERVICE STUBS.
15. ALL TESTING TO BE DONE AND APPROVED BEFORE BACKFILLING PIPE.

INFORMATION ON EXISTING UTILITIES MAY NOT BE COMPLETE OR ACCURATE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL EXPOSE LOCATIONS OF ALL EXISTING UTILITIES AND ADVISE THE ENGINEER OF POTENTIAL CONFLICTS.

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GRAPHIC SCALE
−5 0 5 10
SCALE: 1:250

SEAL

UBC Gage South
ULTIMATE DESIGN
UNDERGROUND WORKS

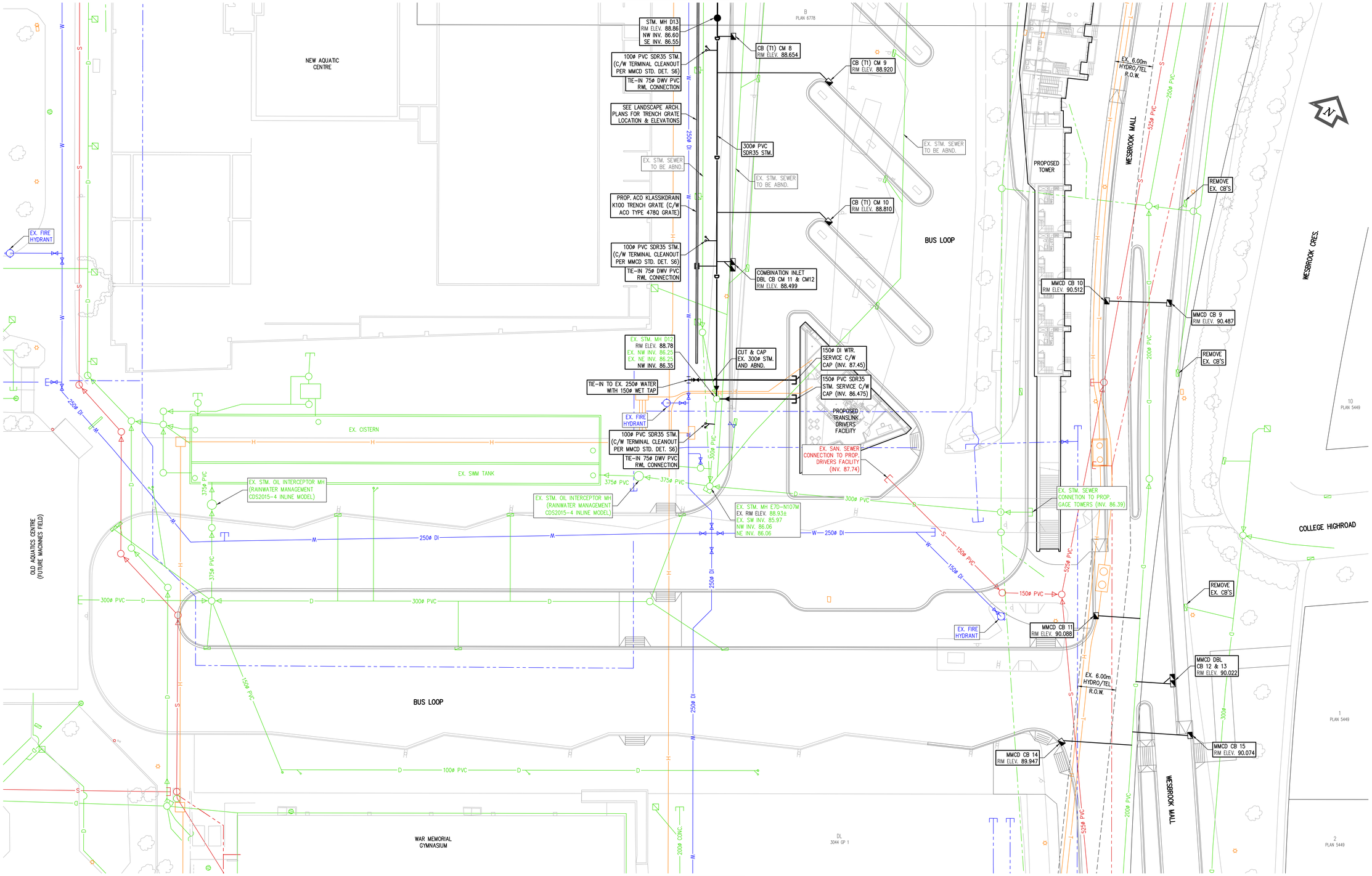
Civil Design
UTILITIES
SITE SERVICING

DRAWN: BC CHECKED: CN

C 4B

CORE-1773

FOR CONTINUATION SEE DWG C4A



FOR CONTINUATION SEE DWG C4D

LEGEND

EX. WATER	W	ABND. WATER	
EX. WATER – IRRIGATION	W	ABND. SANITARY SEWER	
EX. SANITARY SEWER	S	ABND. STORM SEWER	
EX. STORM SEWER	D	ABND. GAS	
EX. GAS	G	ABND. STEAM	
EX. STEAM		PROP. WATER	W
EX. HYDRO	H	PROP. SANITARY SEWER	S
EX. TEL / COMM	T	PROP. STORM SEWER	D
DISTRICT HOT WATER ALIGNMENT	DHW	PROP. UBC HYDRO	H

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GRAPHIC SCALE
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SCALE: 1:250

SEAL

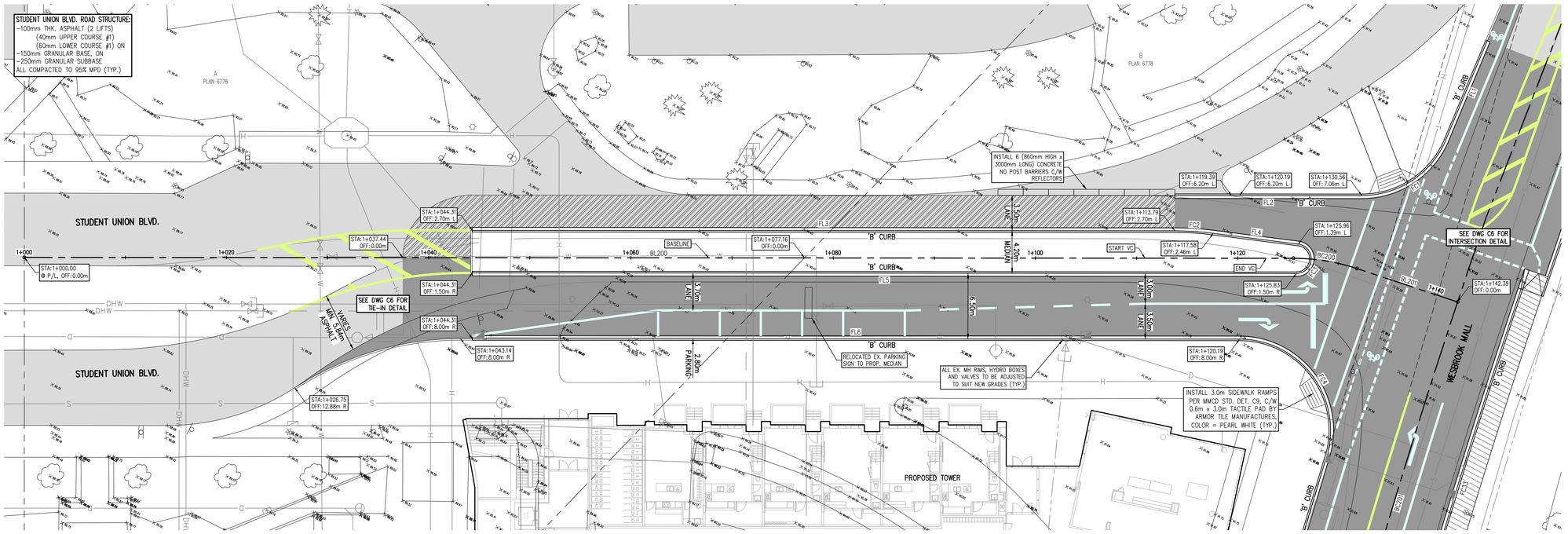
UBC Gage South
ULTIMATE DESIGN UNDERGROUND WORKS

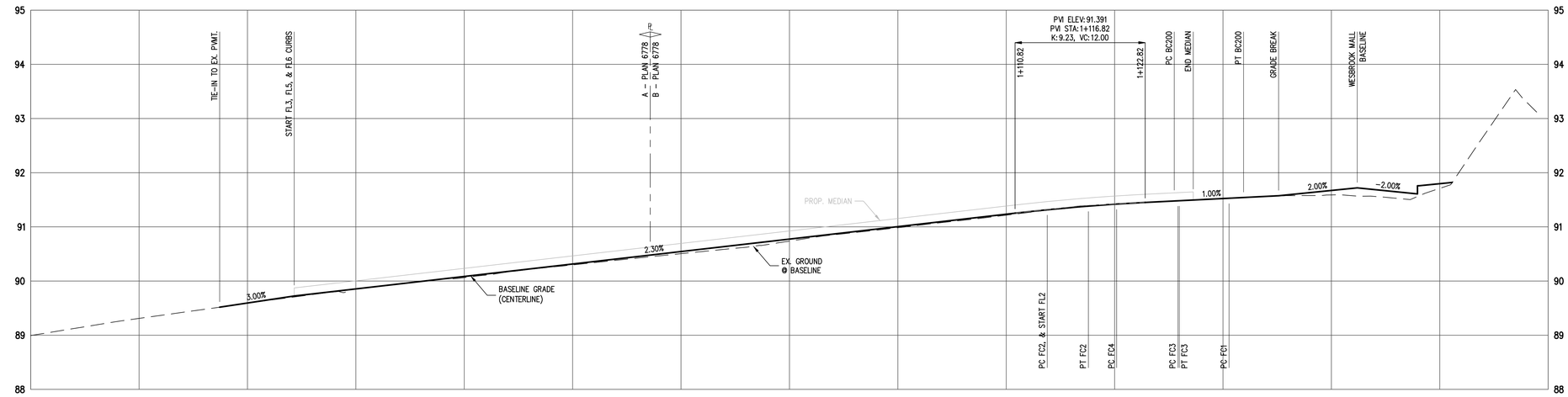
Civil Design
UTILITIES
SITE SERVICING

DRAWN: BC CHECKED: CN

C 4C

CORE-1773





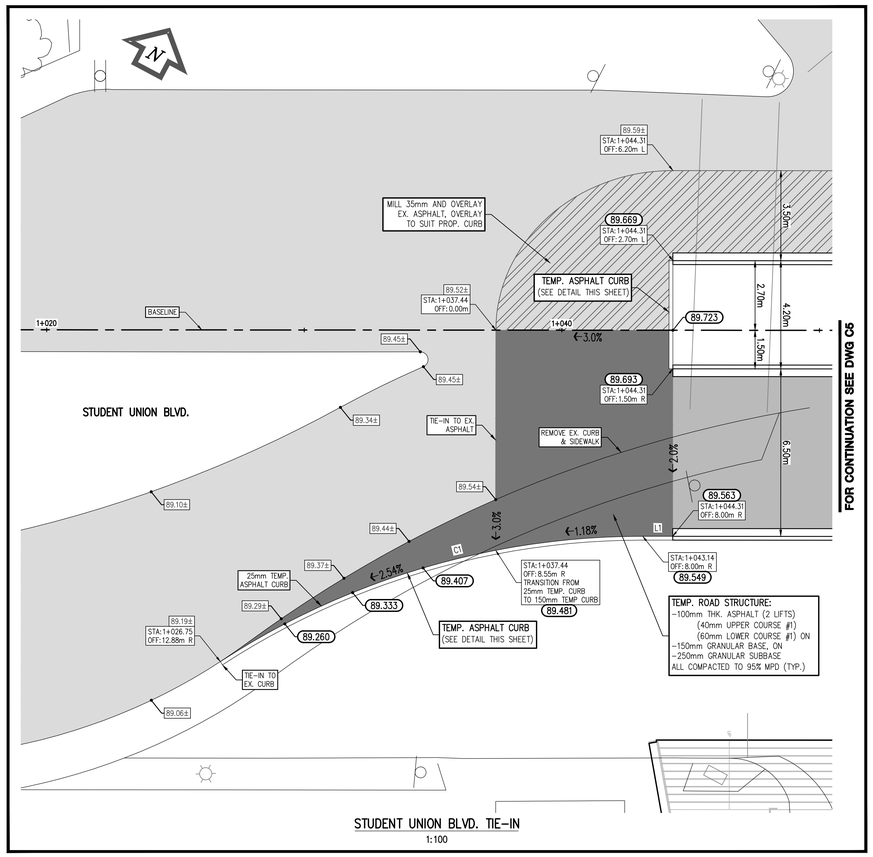
CURVE TABLE (ROAD BASELINE)			
CURVE	DELTA	RADIUS	ARC
BC200	18°18'57"	20.000	6.393

LINE TABLE (ROAD BASELINE)		
LINE	BEARING	DISTANCE
BL200	N61°56'58"E	125.501
BL201	N80°15'55"E	10.496

CURVE TABLE (FACE OF CURB)			
CURVE	DELTA	RADIUS	ARC
FC1	67°19'16"	9.000	10.575
FC2	7°15'25"	30.000	3.800
FC3	172°44'35"	1.450	4.372
FC4	106°59'44"	9.000	16.807

LINE TABLE (FACE OF CURB)		
LINE	BEARING	DISTANCE
FL2	S61°56'58"W	18.485
FL3	N61°56'58"E	69.479
FL4	N69°12'23"E	8.481
FL5	S61°56'58"W	81.498
FL6	N61°56'58"E	75.878

| | | |



STUDENT UNION BLVD. TIE-IN
1:100

GENERAL NOTES:

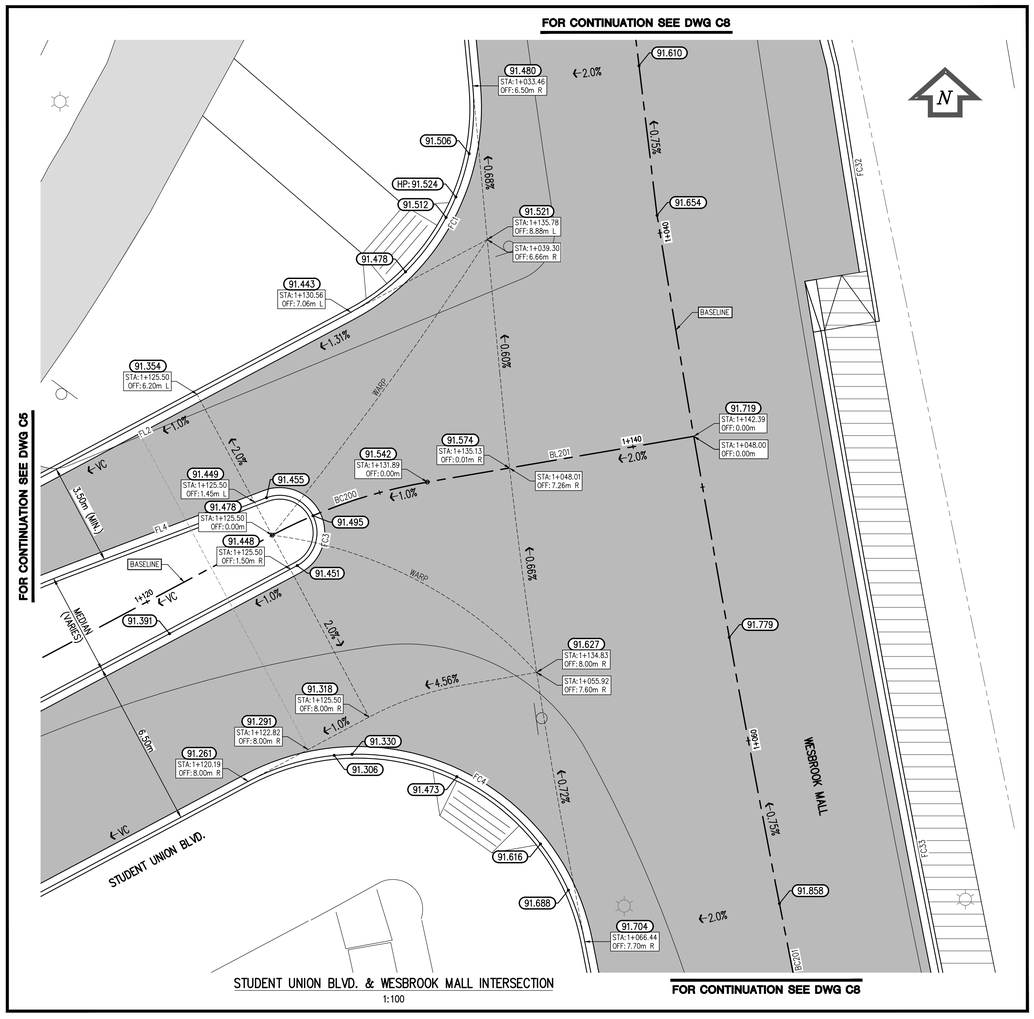
1. FOR NOTES AND DETAILS SEE DWG C3.
2. FOR DEMOLITION PLANS SEE DWG C2.
3. FOR STUDENT UNION BLVD. PLAN / PROFILE SEE DWG. C5.
4. FOR STUDENT UNION BLVD. SECTIONS SEE DWG. C7.
5. CALL BC ONE-CALL 24 HOURS PRIOR TO CONSTRUCTION.
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LEGEND

- EXISTING ROAD ASPHALT
- PROPOSED ROAD ASPHALT
- PROPOSED TEMP. ROAD ASPHALT
- PROPOSED MILL & OVERLAY
- PROPOSED CURB & GUTTER
- STA: STATION @ BASELINE
- OFF: OFFSET OFF BASELINE
- VC VERTICAL CURVE
- GB: GRADE BREAK
- LP: LOW POINT
- HP: HIGH POINT
- 91.164 EXISTING ELEVATIONS
- 91.462 PROPOSED ELEVATIONS

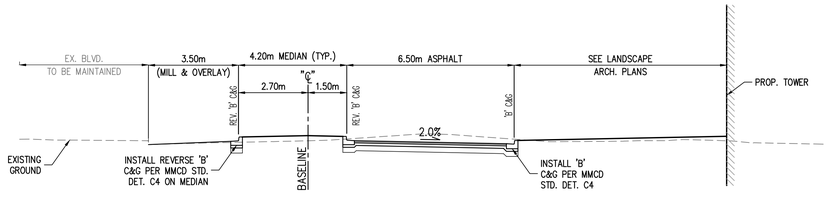
CURVE TABLE (FACE OF TEMP. CURB)			
CURVE	DELTA	RADIUS	ARC
C1	33°07'33"	30.00	17.34

LINE TABLE (FACE OF TEMP. CURB)		
LINE	BEARING	DISTANCE
L1	S61°56'58"W	1.164

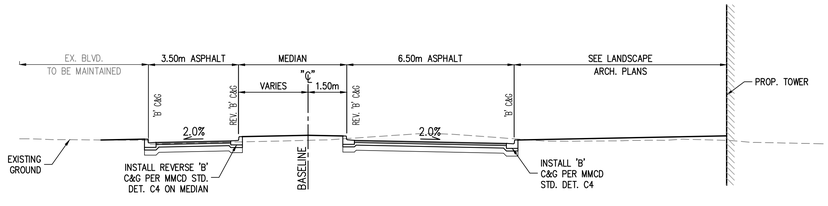


STUDENT UNION BLVD. & WESBROOK MALL INTERSECTION
1:100

FOR CONTINUATION SEE DWG C8

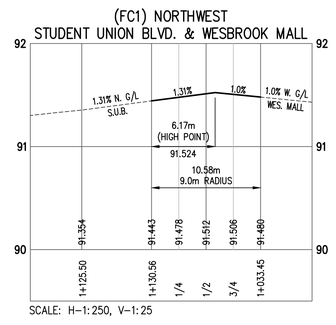


STUDENT UNION BLVD.
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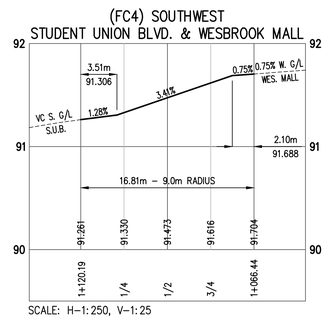


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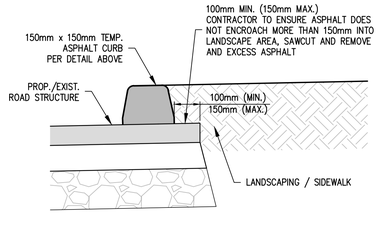
STUDENT UNION BLVD. ROAD STRUCTURE:
-100mm THK. ASPHALT (2 LIFTS)
(40mm UPPER COURSE #1)
(60mm LOWER COURSE #1) ON
-150mm GRANULAR BASE, ON
-250mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)



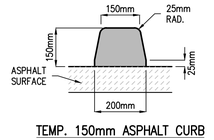
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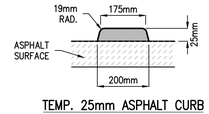
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TEMP. ASPHALT CURB
SECTION



TEMP. 150mm ASPHALT CURB



TEMP. 25mm ASPHALT CURB

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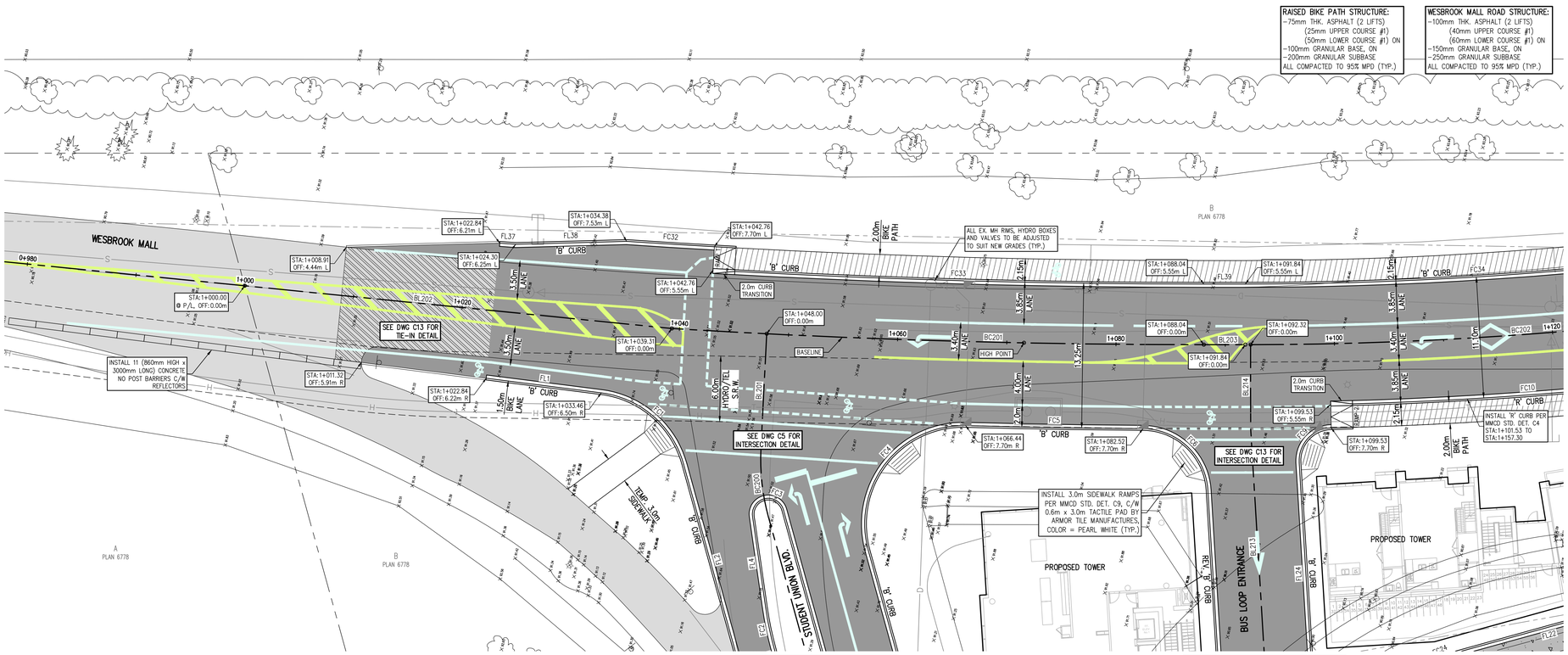
UBC Gage South
ULTIMATE DESIGN
SURFACE WORKS

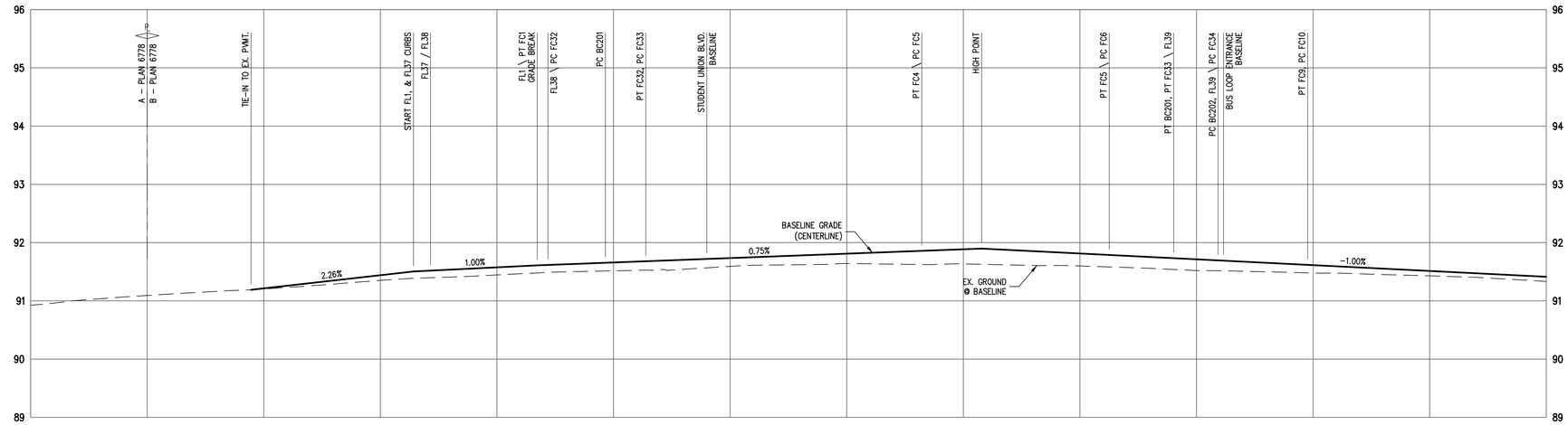
Civil Design
PAVING - DETAILS
STUDENT UNION BLVD.

DRAWN: BC CHECKED: CN

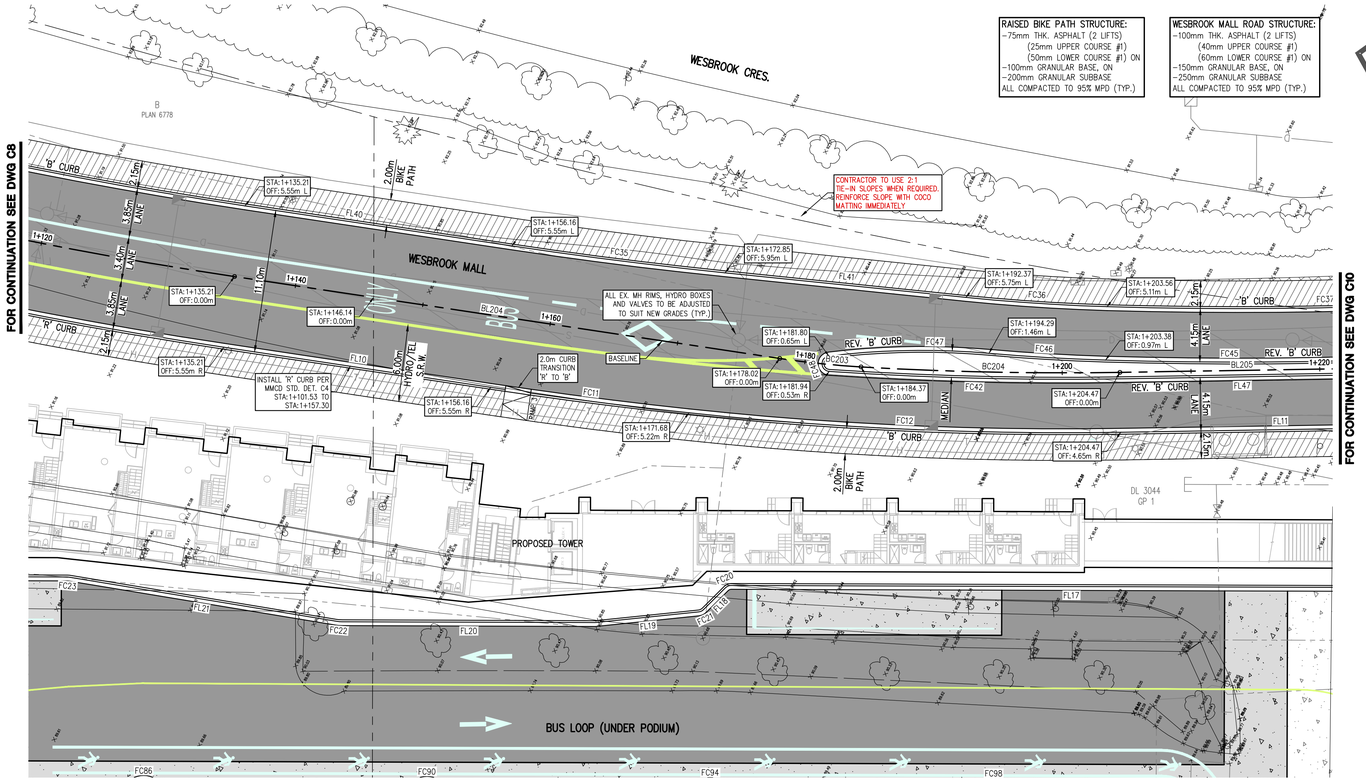
C 6

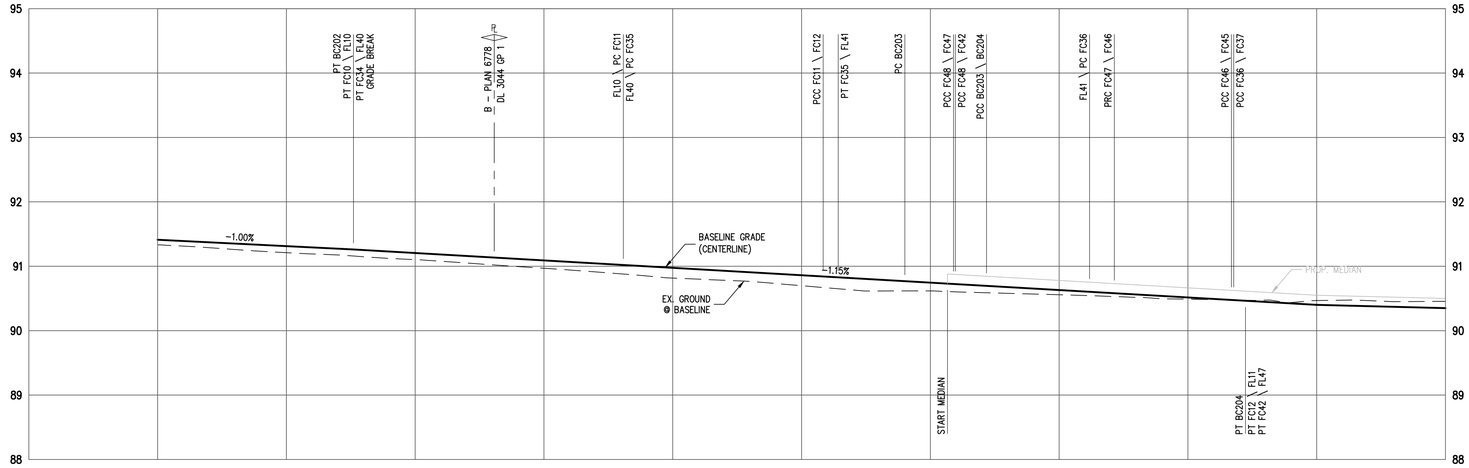
CORE-1773


RAISED BIKE PATH STRUCTURE:
-75mm THK. ASPHALT (2 LIFTS)
(25mm UPPER COURSE #1)
(50mm LOWER COURSE #1) ON
-100mm GRANULAR BASE, ON
-200mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)
WESBROOK MALL ROAD STRUCTURE:
-100mm THK. ASPHALT (2 LIFTS)
(40mm UPPER COURSE #1)
(60mm LOWER COURSE #1) ON
-150mm GRANULAR BASE, ON
-250mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)
N
WESBROOK MALL
STA:1+000.00 @ P/L, OFF:0.00m
SEE DWG C13 FOR TIE-IN DETAIL
INSTALL 11 (860mm HIGH x 3000mm LONG) CONCRETE NO POST BARRIERS C/W REFLECTORS
STA:1+008.91 OFF:4.44m L
STA:1+011.32 OFF:5.91m R
STA:1+022.84 OFF:6.21m L
STA:1+022.84 OFF:6.22m R
STA:1+024.30 OFF:6.25m L
STA:1+033.46 OFF:6.50m R
STA:1+034.38 OFF:7.53m L
STA:1+039.31 OFF:0.00m
STA:1+042.76 OFF:5.55m L
STA:1+042.76 OFF:7.70m L
STA:1+048.00 OFF:0.00m
STA:1+065.44 OFF:7.70m R
STA:1+082.52 OFF:7.70m R
STA:1+088.04 OFF:0.00m
STA:1+088.04 OFF:5.55m L
STA:1+091.84 OFF:0.00m
STA:1+091.84 OFF:5.55m L
STA:1+092.32 OFF:0.00m
STA:1+099.53 OFF:5.55m R
STA:1+099.53 OFF:7.70m R
ALL EX. MH RIMS, HYDRO BOXES AND VALVES TO BE ADJUSTED TO SUIT NEW GRADES (TYP.)
SEE DWG C5 FOR INTERSECTION DETAIL
SEE DWG C13 FOR INTERSECTION DETAIL
INSTALL 3.0m SIDEWALK RAMPS PER MMCD STD. DET. C9, C/W 0.6m x 3.0m TACTILE PAD BY ARMOR TILE MANUFACTURES, COLOR = PEARL WHITE (TYP.)
INSTALL 'R' CURB PER MMCD STD. DET. C4 STA:1+101.53 TO STA:1+157.30
TEMP. 3.0m SIDEWALK
STUDENT UNION BLVD.
BUS LOOP ENTRANCE
PROPOSED TOWER
PROPOSED TOWER
FOR CONTINUATION SEE DWG C9
FOR CONTINUATION SEE DWG C5
FOR CONTINUATION SEE DWG C26

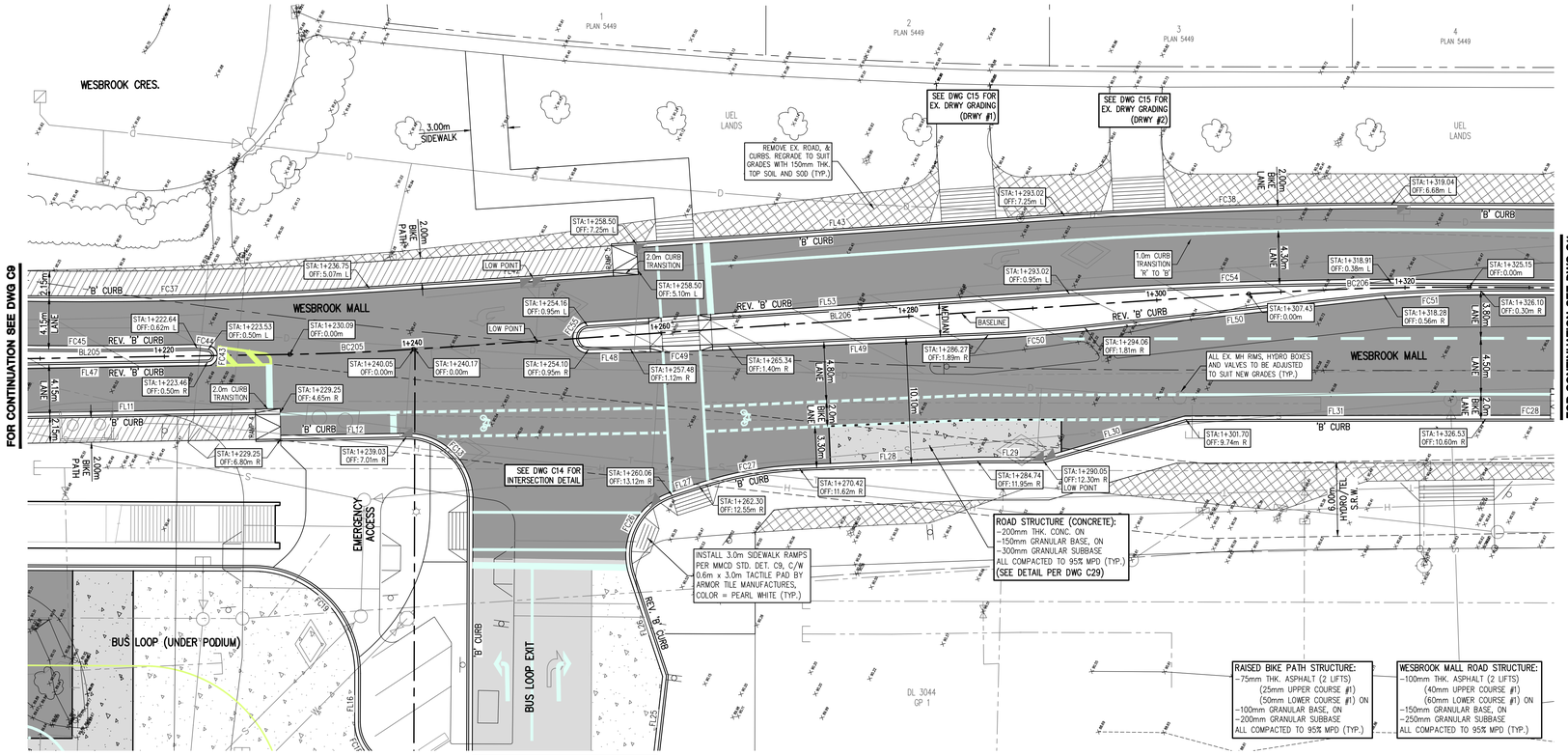

A – PLAN 6778
B – PLAN 6778
TIE-IN TO EX. PVMT.
START FL1, & FL37 CURBS
FL37 / FL38
FL1 \ PT FC1 GRADE BREAK
FL38 \ PC FC32
PC BC201
PT FC32, PC FC33
STUDENT UNION BLVD. BASELINE
PT FC4 \ PC FC5
HIGH POINT
PT FC5 \ PC FC6
PT BC201, PT FC33 \ FL39
PC BC202, FL39 \ PC FC34
BUS LOOP ENTRANCE BASELINE
PT FC9, PC FC10
BASELINE GRADE (CENTERLINE)
EX. GROUND @ BASELINE
2.26%
1.00%
0.75%
-1.00%

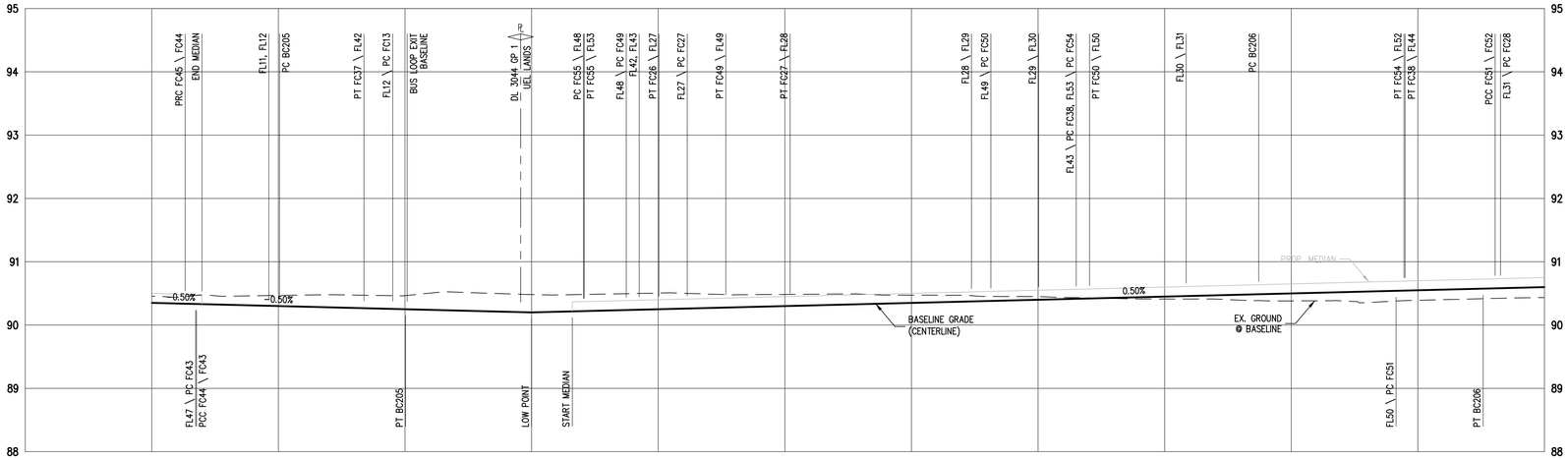
| | | |


WESBROOK CRES.
WESBROOK MALL
RAISED BIKE PATH STRUCTURE:
-75mm THK. ASPHALT (2 LIFTS)
(25mm UPPER COURSE #1)
(50mm LOWER COURSE #1) ON
-100mm GRANULAR BASE, ON
-200mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)
WESBROOK MALL ROAD STRUCTURE:
-100mm THK. ASPHALT (2 LIFTS)
(40mm UPPER COURSE #1)
(60mm LOWER COURSE #1) ON
-150mm GRANULAR BASE, ON
-250mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)
FOR CONTINUATION SEE DWG C8
FOR CONTINUATION SEE DWG C10
'B' CURB
'R' CURB
3.6m LANE
3.4m LANE
11.0m
2.15m
2.00m BIKE PATH
CONTRACTOR TO USE 2:1 TIE-IN SLOPES WHEN REQUIRED. REINFORCE SLOPE WITH COCO MATTING IMMEDIATELY
ALL EX. MH RIMS, HYDRO BOXES AND VALVES TO BE ADJUSTED TO SUIT NEW GRADES (TYP.)
BASELINE
2.0m CURB TRANSITION 'R' TO 'B'
INSTALL 'R' CURB PER MMCD STD. DET. C4
STA:1+101.53 TO STA:1+157.30
REV. 'B' CURB
MEDIAN
1.5m
BC202
BC203
BC204
BL204
BL205
FC10
FC11
FC12
FC34
FC35
FC36
FC37
FC41
FC42
FC45
FC46
FC47
FC48
FL10
FL11
FL40
FL41
FL47
STA:1+135.21 OFF:5.56m L
STA:1+135.21 OFF:0.00m
STA:1+135.21 OFF:5.55m R
STA:1+146.14 OFF:0.00m
STA:1+156.16 OFF:5.55m L
STA:1+156.16 OFF:5.55m R
STA:1+171.68 OFF:5.22m R
STA:1+172.85 OFF:5.95m L
STA:1+178.02 OFF:0.00m
STA:1+181.80 OFF:0.65m L
STA:1+181.94 OFF:0.53m R
STA:1+184.37 OFF:0.00m
STA:1+192.37 OFF:5.75m L
STA:1+194.29 OFF:1.46m L
STA:1+203.38 OFF:0.97m L
STA:1+203.56 OFF:5.11m L
STA:1+204.47 OFF:0.00m
STA:1+204.47 OFF:4.65m R
1+120
1+140
1+160
1+180
1+200
1+220
PROPOSED TOWER
DL 3044 GP 1
BUS LOOP (UNDER PODIUM)
FC20
FC21
FC22
FC23
FC86
FC90
FC94
FC98
FL17
FL19
FL20
FL21

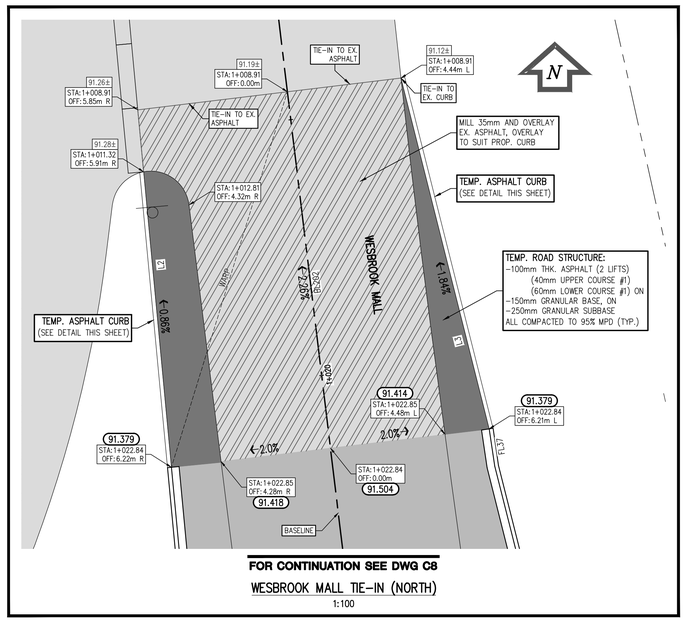

95
94
93
92
91
90
89
88
-1.00%
-1.15%
BASELINE GRADE (CENTERLINE)
EX. GROUND @ BASELINE
FACE OF MEDIAN
PT BC202 \ FL10
PT FC10 \ FL10
PT FC34 \ FL40 GRADE BREAK
B - PLAN 6778 \ DL 3044 GP 1
FL10 \ PC FC11
FL40 \ PC FC35
PCC FC11 \ FC12
PT FC35 \ FL41
PC BC203
PCC FC48 \ FC47
PCC FC48 \ FC42
PCC BC203 \ BC204
START MEDIAN
FL41 \ PC FC36
PRC FC47 \ FC46
PCC FC46 \ FC45
PCC FC36 \ FC37
PT BC204 \ FC12
PT FC12 \ FL11
PT FC42 \ FL47

| | | |


WESBROOK CRES.
WESBROOK MALL
3.00m SIDEWALK
2.00m BIKE PATH
2.00m BIKE LANE
4.30m LANE
4.50m LANE
4.15m LANE
2.15m
UEL LANDS
REMOVE EX. ROAD, & CURBS. REGRADE TO SUIT GRADES WITH 150mm THK. TOP SOIL AND SOD (TYP.)
SEE DWG C15 FOR EX. DRWY GRADING (DRWY #1)
SEE DWG C15 FOR EX. DRWY GRADING (DRWY #2)
2.0m CURB TRANSITION
1.0m CURB TRANSITION 'B' TO 'B'
LOW POINT
BASELINE
REV. 'B' CURB
'B' CURB
ALL EX. MH RIMS, HYDRO BOXES AND VALVES TO BE ADJUSTED TO SUIT NEW GRADES (TYP.)
SEE DWG C14 FOR INTERSECTION DETAIL
EMERGENCY ACCESS
BUS LOOP (UNDER PODIUM)
BUS LOOP EXIT
INSTALL 3.0m SIDEWALK RAMPS PER MMCD STD. DET. C9, C/W 0.6m x 3.0m TACTILE PAD BY ARMOR TILE MANUFACTURES, COLOR = PEARL WHITE (TYP.)
ROAD STRUCTURE (CONCRETE):
-200mm THK. CONC. ON
-150mm GRANULAR BASE, ON
-300mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)
(SEE DETAIL PER DWG C29)
RAISED BIKE PATH STRUCTURE:
-75mm THK. ASPHALT (2 LIFTS)
(25mm UPPER COURSE #1)
(50mm LOWER COURSE #1) ON
-100mm GRANULAR BASE, ON
-200mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)
WESBROOK MALL ROAD STRUCTURE:
-100mm THK. ASPHALT (2 LIFTS)
(40mm UPPER COURSE #1)
(60mm LOWER COURSE #1) ON
-150mm GRANULAR BASE, ON
-250mm GRANULAR SUBBASE
ALL COMPACTED TO 95% MPD (TYP.)
HYDRO/TEL S.R.W.
6.0m
DL 3044 GP 1
FOR CONTINUATION SEE DWG C9
FOR CONTINUATION SEE DWG C11
FOR CONTINUATION SEE DWG C30


PRC FC45 \ FC44 END MEDIAN
FL11, FL12
PC BC205
PT FC37 \ FL42
FL12 \ PC FC13
BUS LOOP EXIT BASELINE
DL 3044 GP 1 UEL LANDS
PC FC55 \ FL48
PT FC55 \ FL53
FL48 \ PC FC49
FL42, FL43
PT FC26 \ FL27
FL27 \ PC FC27
PT FC49 \ FL49
PT FC27 \ FL28
FL28 \ FL29
FL49 \ PC FC50
FL29 \ FL30
FL43 \ PC FC36, FL33 \ FL54
PT FC50 \ FL50
FL30 \ FL31
PC BC206
PT FC54 \ FL52
PT FC38 \ FL44
PCC FC51 \ FL52
FL31 \ PC FC28
FL47 \ PC FC43
PCC FC44 \ FC43
PT BC205
LOW POINT
START MEDIAN
PT BC206
FL50 \ PC FC51
0.50%
PROP. MEDIAN
BASELINE GRADE (CENTERLINE)
EX. GROUND @ BASELINE
95
94
93
92
91
90
89
88

| | | |



FOR CONTINUATION SEE DWG C8

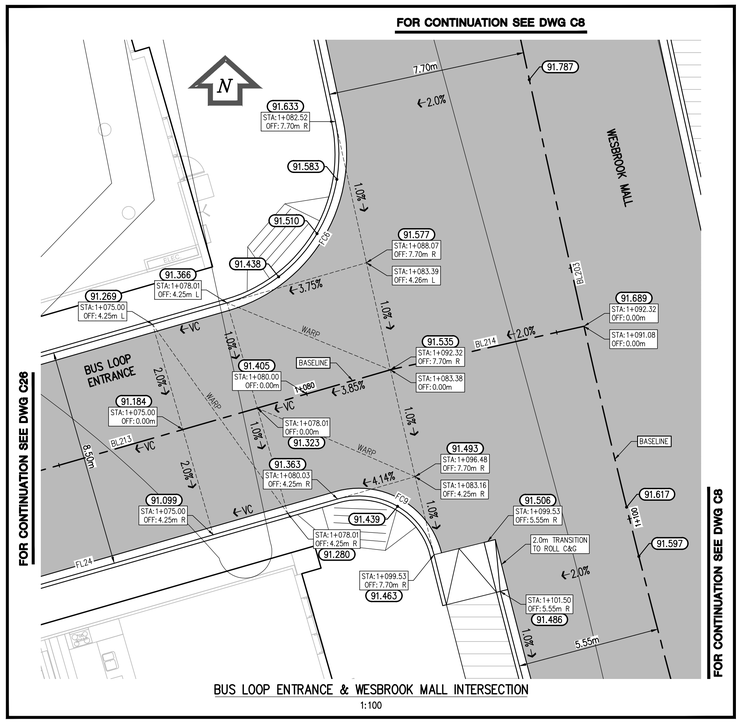
WESBROOK MALL TIE-IN (NORTH)

1:100

LINE TABLE (FACE OF TEMP. CURB)		
LINE	BEARING	DISTANCE
L2	N5°22'18"W	11.522
L3	N14°07'48"W	14.044

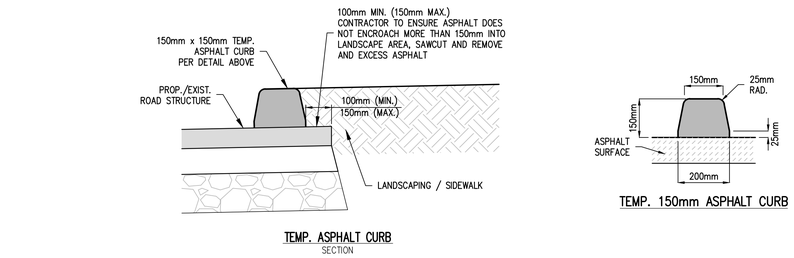
LEGEND

- EXISTING ROAD ASPHALT
- PROPOSED ROAD ASPHALT
- PROPOSED TEMP. ROAD ASPHALT
- PROPOSED MILL & OVERLAY
- PROPOSED CURB & GUTTER
- STA: STATION @ BASELINE
- OFF: OFFSET OFF BASELINE
- VC: VERTICAL CURVE
- GB: GRADE BREAK
- LP: LOW POINT
- HP: HIGH POINT
- 91.16± EXISTING ELEVATIONS
- 91.462 PROPOSED ELEVATIONS



BUS LOOP ENTRANCE & WESBROOK MALL INTERSECTION

1:100



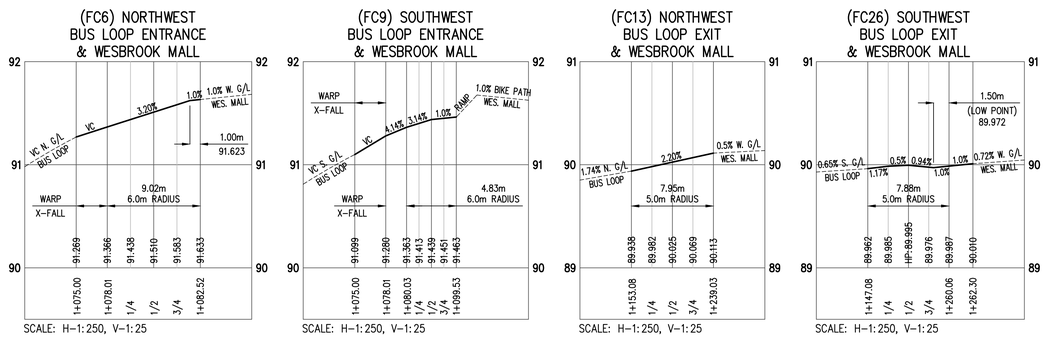
TEMP. ASPHALT CURB

SECTION

TEMP. 150mm ASPHALT CURB

GENERAL NOTES:

1. FOR NOTES AND DETAILS SEE DWG C3.
2. FOR DEMOLITION PLANS SEE DWG C2.
3. FOR WESBROOK MALL PLAN / PROFILE SEE DWG C8 & C12.
4. FOR WESBROOK MALL SECTIONS SEE DWG. C17 TO C19.
5. CALL BC ONE-CALL 24 HOURS PRIOR TO CONSTRUCTION.
6. TOPOGRAPHIC SURVEY FOR THIS SITE PROVIDED BY MURRAY AND ASSOCIATES LAND SURVEYORS.
7. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CIVIL AND OTHER DISCIPLINE'S DRAWINGS.



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GRAPHIC SCALE

−4 0 4 8

SCALE: 1:200

SEAL

UBC Gage South

ULTIMATE DESIGN SURFACE WORKS

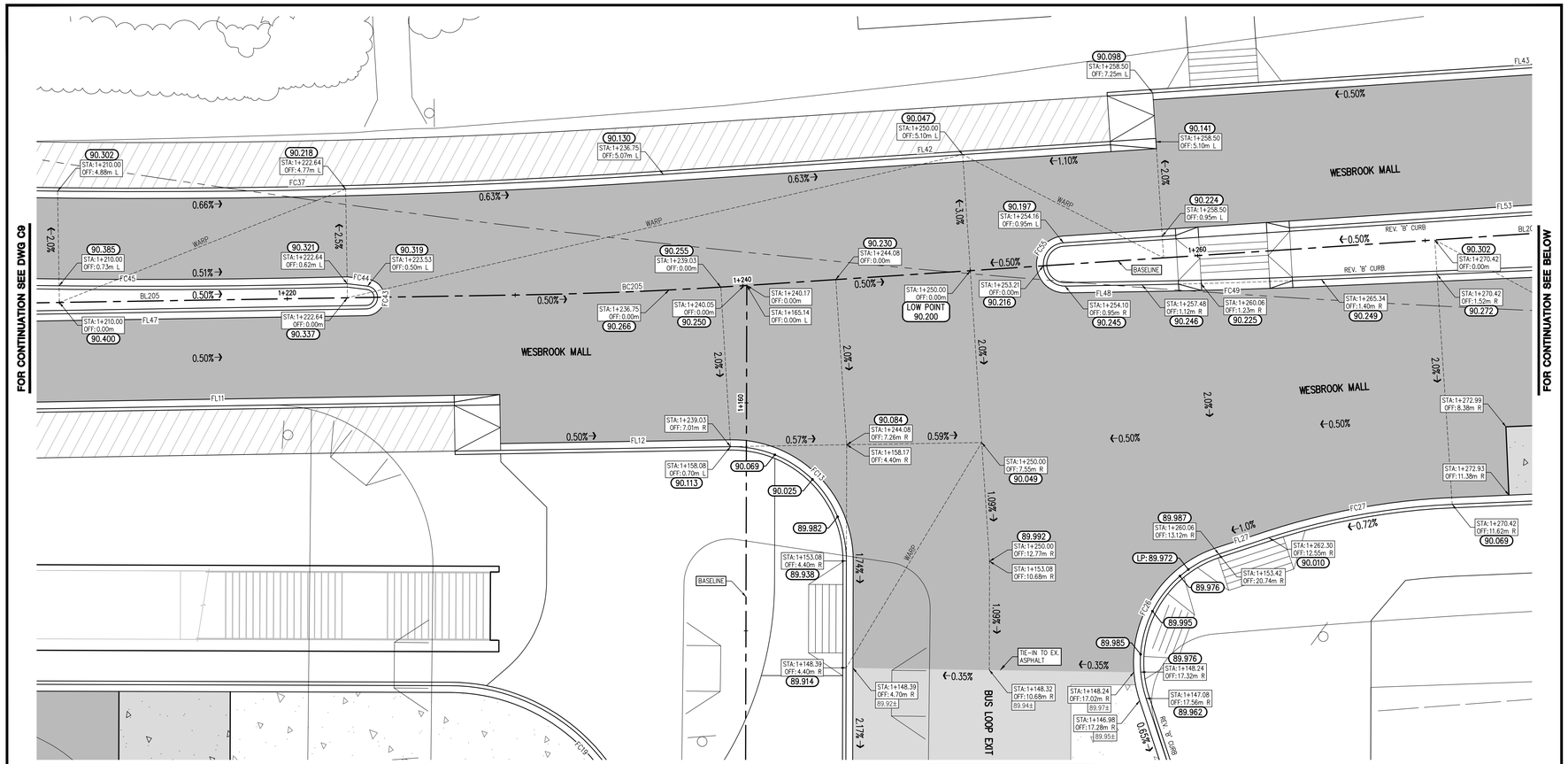
Civil Design

PAVING - DETAILS WESBROOK MALL

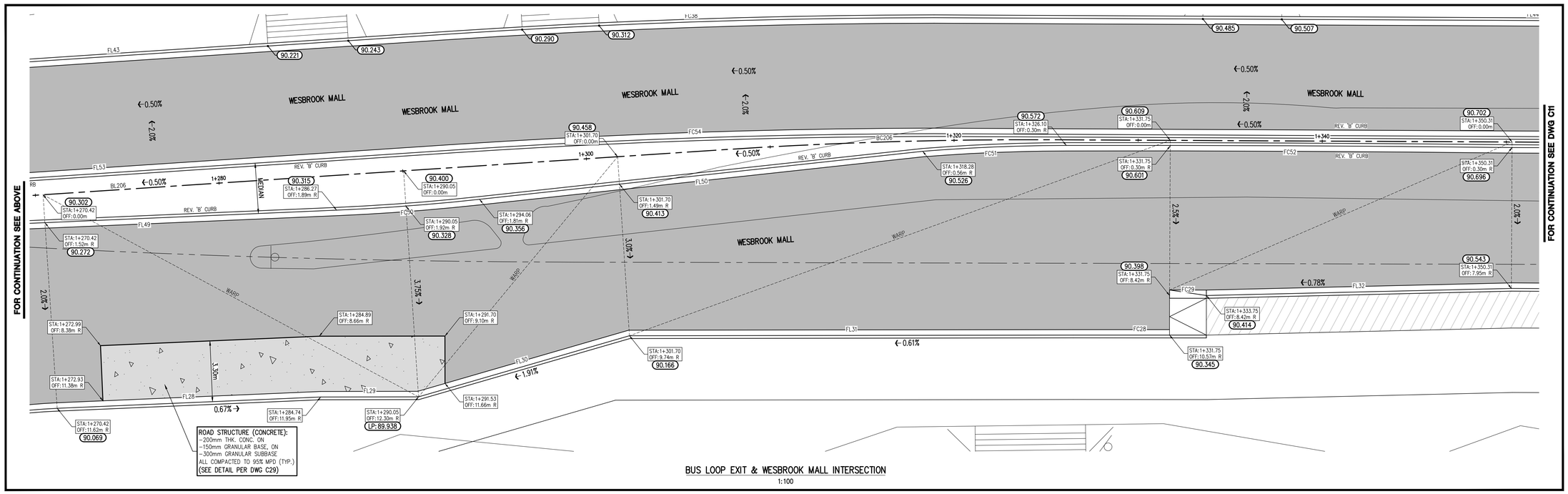
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C 13

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BUS LOOP EXIT & WESBROOK MALL INTERSECTION
1:100



BUS LOOP EXIT & WESBROOK MALL INTERSECTION
1:100

GENERAL NOTES:

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2. FOR DEMOLITION PLANS SEE DWG C2.
3. FOR WESBROOK MALL PLAN / PROFILE SEE DWG C8 & C12.
4. FOR WESBROOK MALL SECTIONS SEE DWG. C17 TO C19.
5. CALL BC ONE-CALL 24 HOURS PRIOR TO CONSTRUCTION.
6. TOPOGRAPHIC SURVEY FOR THIS SITE PROVIDED BY MURRAY AND ASSOCIATES LAND SURVEYORS.
7. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CIVIL AND OTHER DISCIPLINE'S DRAWINGS.

LEGEND

- EXISTING ROAD ASPHALT
- PROPOSED ROAD ASPHALT
- PROPOSED CURB & GUTTER
- STA: STATION @ BASELINE
- OFF: OFFSET OFF BASELINE
- VC VERTICAL CURVE
- GB: GRADE BREAK
- LP: LOW POINT
- HP: HIGH POINT
- 91.16± EXISTING ELEVATIONS
- (91.462) PROPOSED ELEVATIONS

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GRAPHIC SCALE
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SCALE: 1:100

SEAL

UBC Gage South
ULTIMATE DESIGN
SURFACE WORKS

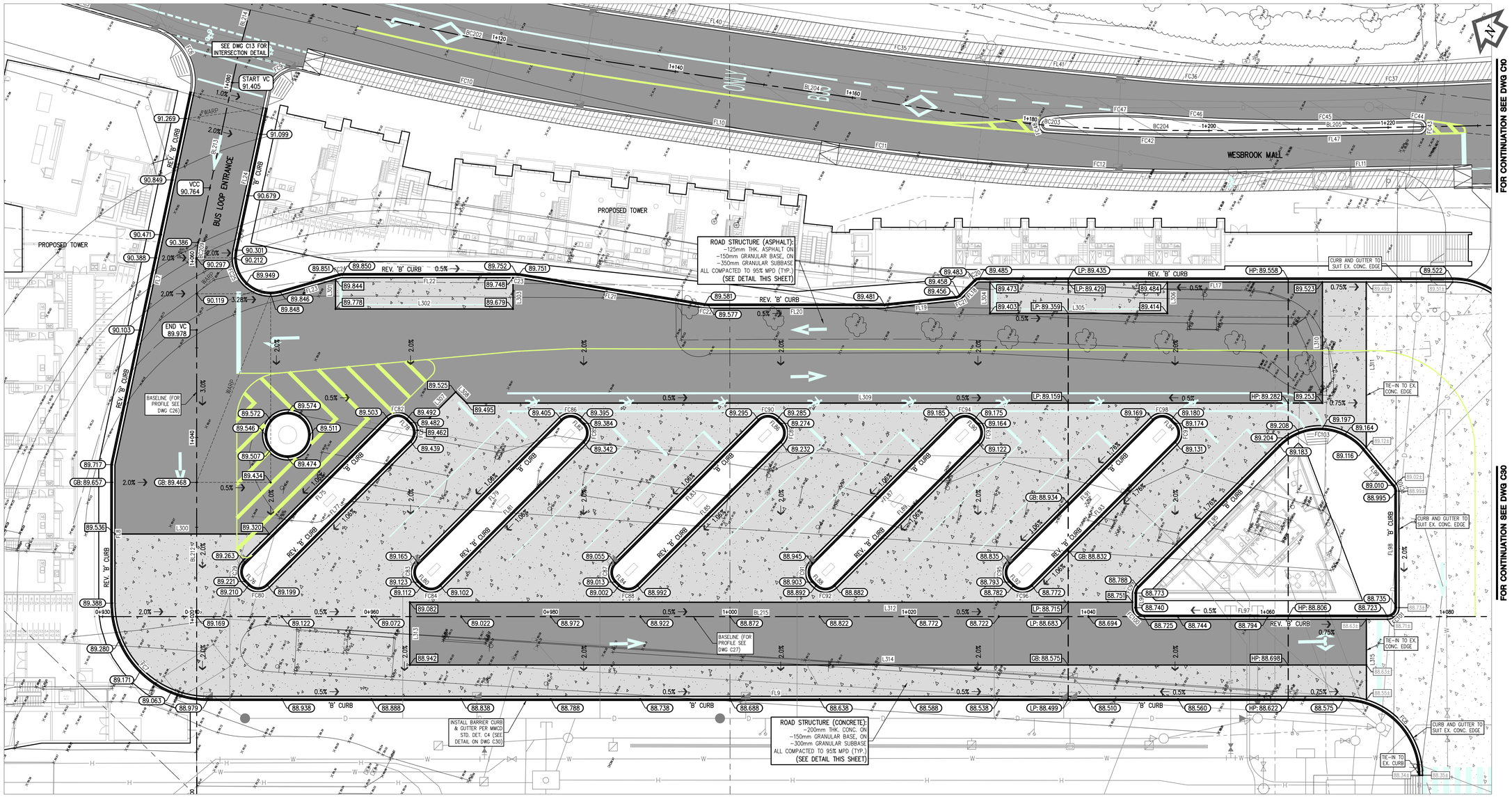
Civil Design
PAVING - DETAILS
WESBROOK MALL

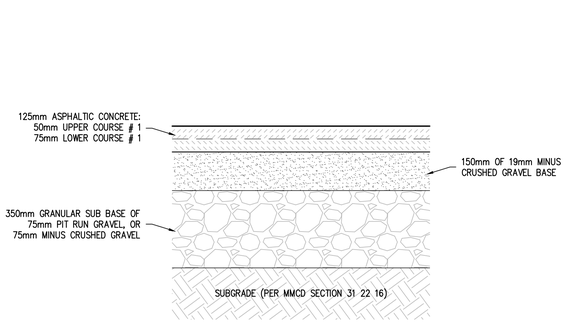
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C 14

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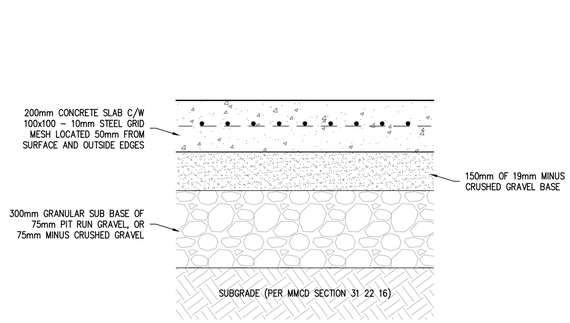
FOR CONTINUATION SEE DWG C8





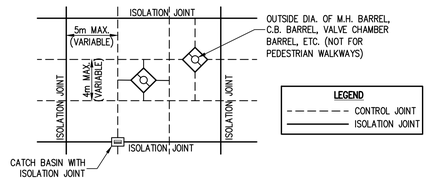
ASPHALT PAVEMENT SPECS.

*ALL COMPACTED TO 95% MODIFIED PROCTOR DENSITY

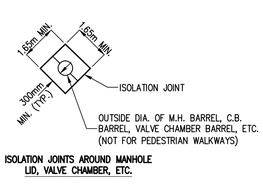


CONC. PAVEMENT SPECIFICATIONS

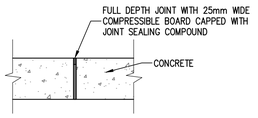
*ALL COMPACTED TO 95% MODIFIED PROCTOR DENSITY



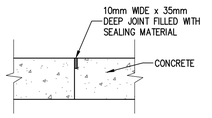
ISOLATION JOINT DETAIL



ISOLATION JOINTS AROUND MANHOLE LID, VALVE CHAMBER, ETC.



CONTROL JOINT DETAIL



CONCRETE PAVEMENT JOINT DETAILS
N.T.S.

GENERAL NOTES:

1. FOR NOTES AND DETAILS SEE DWG C3.
2. FOR DEMOLITION PLANS SEE DWG C2.
3. FOR BUS LOOP PLAN / PROFILE SEE DWG. C26 & C27.
4. FOR BUS LOOP GEOMETRY SEE DWG. C28.
5. FOR BUS LOOP DETAILS SEE DWG. C31.
6. FOR BUS LOOP SECTIONS SEE DWG. C32 TO C35.
7. CALL BC ONE-CALL 24 HOURS PRIOR TO CONSTRUCTION.
8. SEE STREETLIGHT LOCATIONS AND DETAILS SEE ELECTRICAL ENG. DWGS.
9. SEE LANDSCAPE ARCH. DWGS. FOR SIDEWALK AND BOULEVARD DESIGN AND DETAILS
10. TOPOGRAPHIC SURVEY FOR THIS SITE PROVIDED BY MURRAY AND ASSOCIATES LAND SURVEYORS.
11. THESE DRAWINGS TO BE READ IN CONJUNCTION WITH OTHER CIVIL AND OTHER DISCIPLINE'S DRAWINGS.
12. ALL CONC. SIDEWALK LETDOWNS PER MMCD STD. DET. C9, C/W 0.6m x 3.0m TACTILE PAD BY ARMOR TILE MANUFACTURES. COLOR = PEARL WHITE (TYP.)

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LEGEND

- PROPOSED BUS LOOP ASPHALT
- PROPOSED BUS LOOP CONCRETE
- EXISTING BUS LOOP CONCRETE
- PROPOSED CONCRETE BARRIER CURB & GUTTER
- GB: GRADE BREAK
- LP: LOW POINT
- HP: HIGH POINT
- 91.163 EXISTING CONCRETE ELEVATIONS
- 91.163 PROPOSED SPOT ELEVATIONS
- 91.462 PROPOSED GUTTER ELEVATIONS (@ FACE OF CURB)

GRAPHIC SCALE

−4 0 4 8

SCALE: 1:200

SEAL

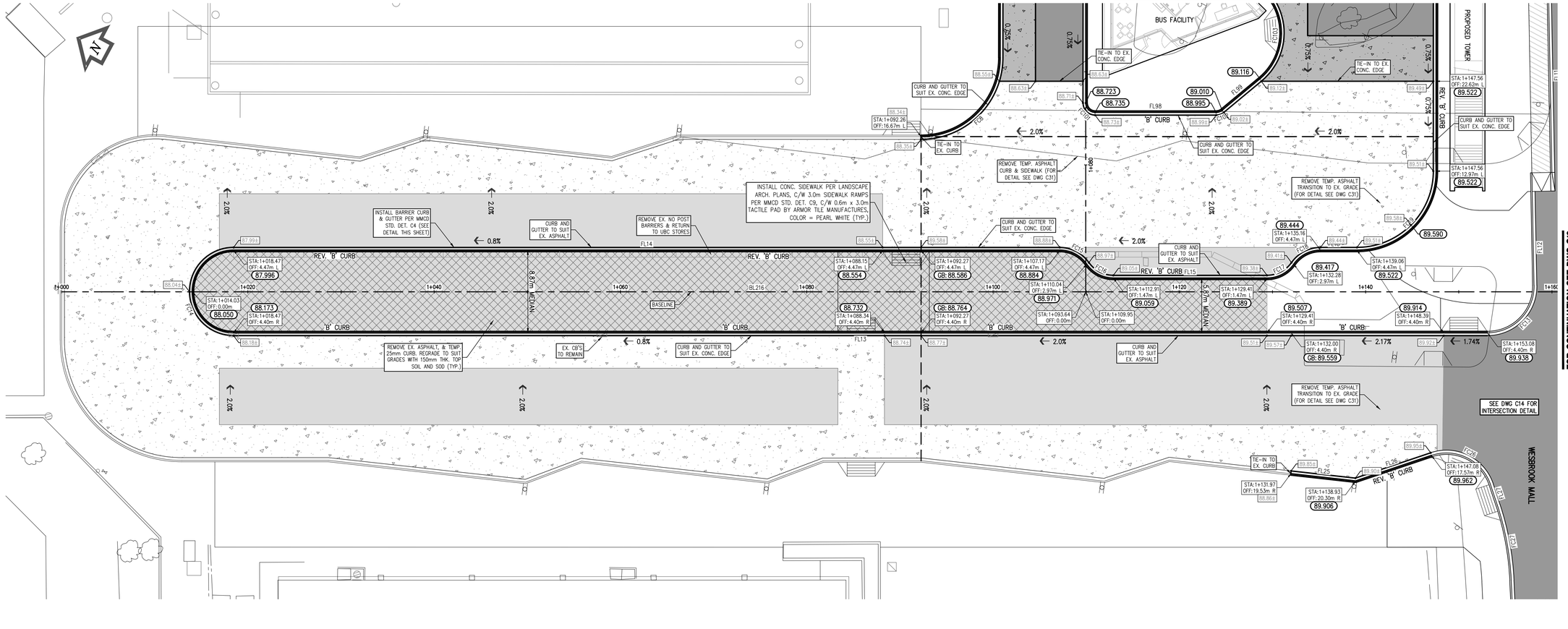
UBC Gage South
ULTIMATE DESIGN
SURFACE WORKS

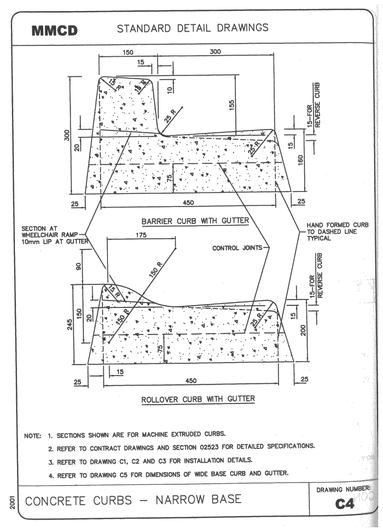
Civil Design
PAVING - GRADING
BUS LOOP - PODIUM

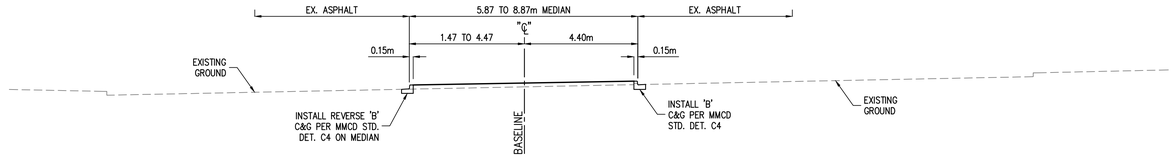
DRAWN: BC CHECKED: CN

C 29

CORE-1773







EXISTING BUS LOOP
SCALE 1:100

LEGEND

- PROPOSED BUS LOOP ASPHALT
- PROPOSED BUS LOOP CONCRETE
- EXISTING BUS LOOP CONCRETE
- EXISTING BUS LOOP ASPHALT
- EX. STRUCTURES TO BE REMOVED & REPLACED W/ TOPSOIL
- PROPOSED CONCRETE BARRIER CURB & GUTTER
- GB: GRADE BREAK
- STA: STATION @ BASELINE
- OFF: OFFSET OFF BASELINE
- 91.162 EXISTING CONCRETE ELEVATIONS
- (91.462) PROPOSED GUTTER ELEVATIONS (@ FACE OF CURB)

LINE TABLE (ROAD BASELINE)		
LINE	BEARING	DISTANCE
BL216	N61°54'40"E	165.145

LINE TABLE (FACE OF CURB)		
LINE	BEARING	DISTANCE
FL13	S61°54'40"W	134.612
FL14	N61°54'40"E	88.702
FL15	N61°54'40"E	16.500
FL16	N61°54'40"E	3.907
FL25	N68°16'34"E	7.004
FL26	N43°20'26"E	8.597

CURVE TABLE (BACK OF CURB)			
CURVE	DELTA	RADIUS	ARC
FC13	91°04'57"	5.000	7.948
FC14	180°00'00"	4.436	13.935
FC15	55°09'00"	3.500	3.369
FC16	55°09'00"	3.500	3.369
FC17	55°09'00"	3.500	3.369
FC18	55°09'00"	3.500	3.369
FC19	89°58'02"	8.500	13.347
FC26	90°17'47"	5.000	7.880

GENERAL NOTES:

1. FOR NOTES AND DETAILS SEE DWG C3.
2. FOR DEMOLITION PLANS SEE DWG C2.
3. FOR BUS LOOP PLAN / PROFILE SEE DWG. C26 & C27.
4. FOR BUS LOOP GEOMETRY SEE DWG. C28.
5. FOR BUS LOOP DETAILS SEE DWG. C31.
6. FOR BUS LOOP SECTIONS SEE DWG. C32 TO C35.
7. CALL BC ONE-CALL 24 HOURS PRIOR TO CONSTRUCTION.
8. SEE STREETLIGHT LOCATIONS AND DETAILS SEE ELECTRICAL ENG. DWGS.
9. SEE LANDSCAPE ARCH. DWGS. FOR SIDEWALK AND BOULEVARD DESIGN AND DETAILS
10. TOPOGRAPHIC SURVEY FOR THIS SITE PROVIDED BY MURRAY AND ASSOCIATES LAND SURVEYORS.
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GRAPHIC SCALE
−4 0 4 8
SCALE: 1:200

SEAL

UBC Gage South
ULTIMATE DESIGN
SURFACE WORKS

Civil Design
PAVING - GRADING
BUS LOOP - EXIT

DRAWN: BC CHECKED: CN

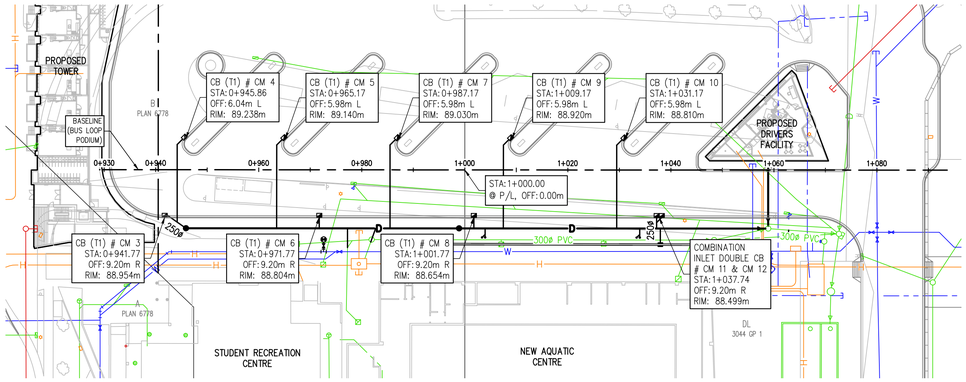
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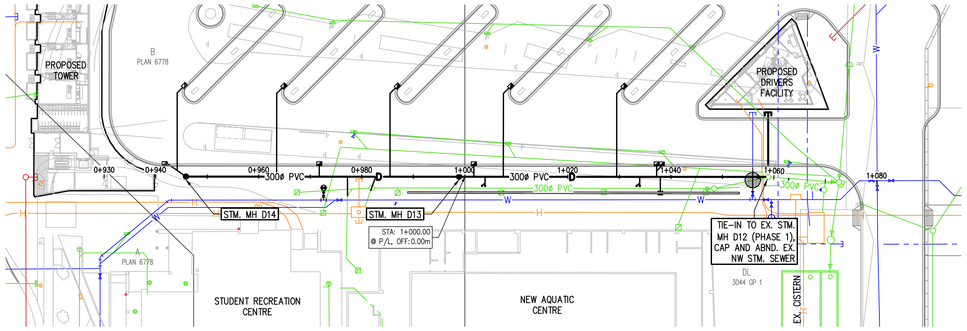
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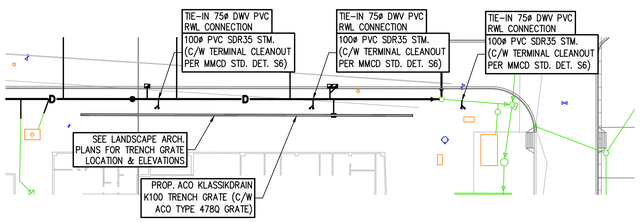
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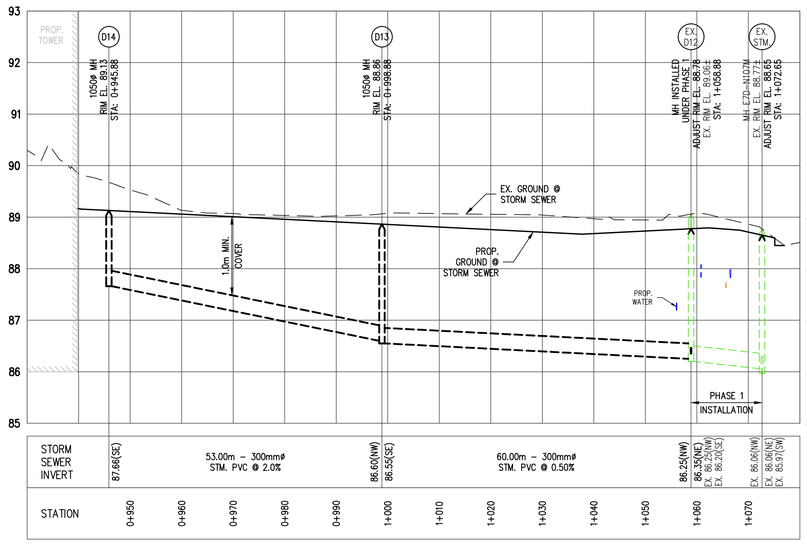
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LEGEND

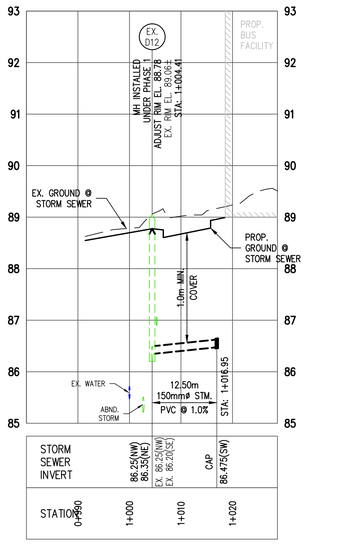
EX. WATER	W
EX. WATER – IRRIGATION	W
EX. SANITARY SEWER	S
EX. STORM SEWER	D
EX. GAS	G
EX. STEAM	
EX. HYDRO	H
EX. TEL / COMM	T
DISTRICT HOT WATER ALIGNMENT	DHW
ABND. WATER	
ABND. SANITARY SEWER	
ABND. STORM SEWER	
ABND. GAS	
ABND. STEAM	
PROP. WATER	W
PROP. SANITARY SEWER	S
PROP. STORM SEWER	D
PROP. UBC HYDRO	H

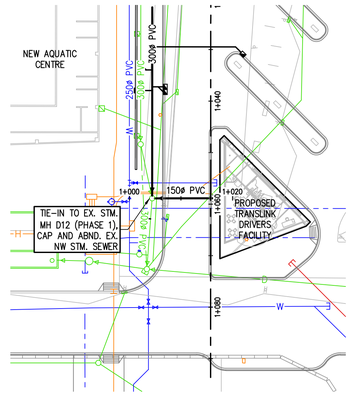
GENERAL NOTES:

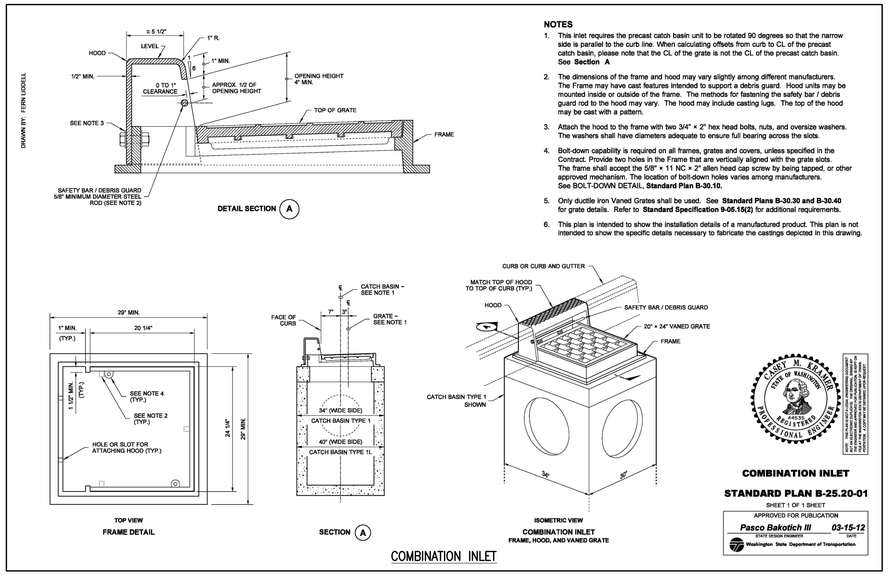
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8. ALL NEW WATER VALVES TO BE TAGGED BY UBC (TYP.)

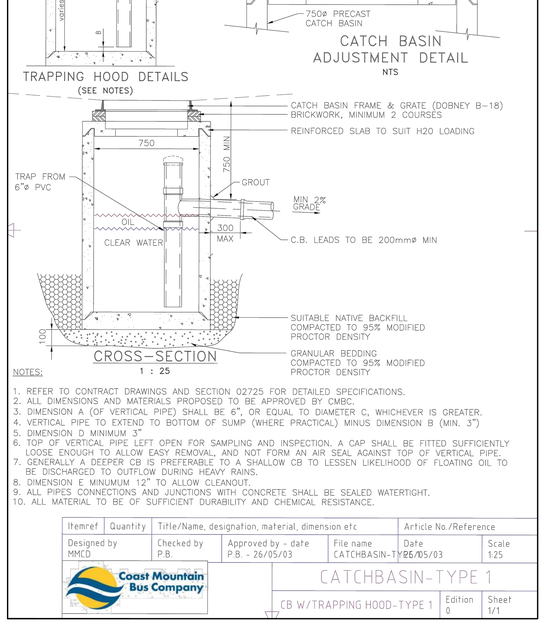
STORM SEWER NOTES

1. (T1) CM CB : PER COAST MOUNTAIN CATCHBASIN TYPE 1 DETAIL C/W TRAPPING HOOD
2. COMBINATION INLET CM CB : PER COAST MOUNTAIN COMBINATION INLET DETAIL (C/W TRAPPING HOOD)
3. ALL CM (COAST MOUNTAIN) CB LEADS TO BE 200ø PVC UNLESS OTHERWISE NOTED









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SCALE: 1:500

SEAL

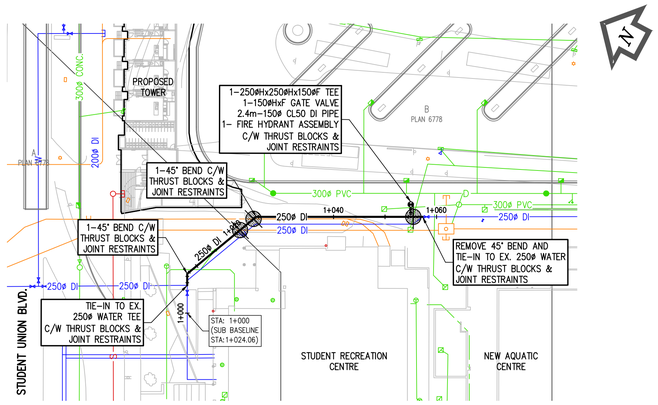
UBC Gage South
ULTIMATE DESIGN UNDERGROUND WORKS

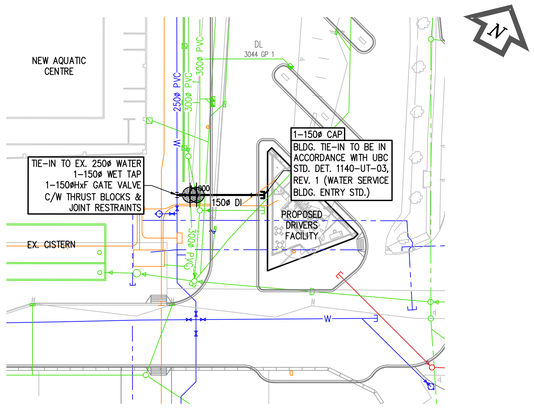
Civil Design
UTILITIES - PLAN/PROFILE BUS LOOP STORM SEWER

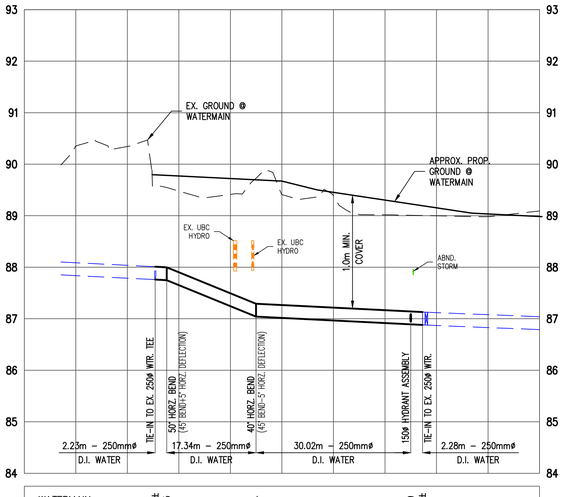
DRAWN: BC CHECKED: CN

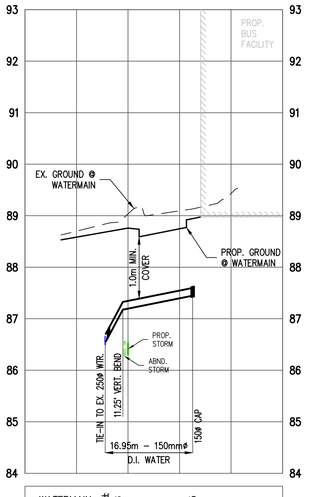
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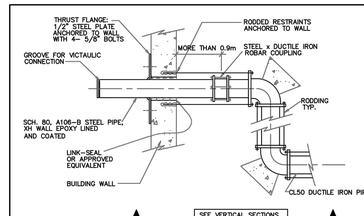


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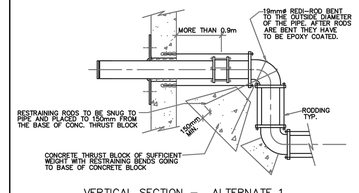
EX. WATER	W
EX. WATER – IRRIGATION	W
EX. SANITARY SEWER	S
EX. STORM SEWER	D
EX. GAS	G
EX. STEAM	
EX. HYDRO	H
EX. TEL / COMM	T
DISTRICT HOT WATER ALIGNMENT	DHW
ABND. WATER	
ABND. SANITARY SEWER	
ABND. STORM SEWER	
ABND. GAS	
ABND. STEAM	
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PROP. SANITARY SEWER	S
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PROP. UBC HYDRO	H

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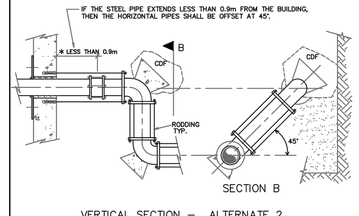
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PLAN VIEW (TYPICAL)



VERTICAL SECTION – ALTERNATE 1



VERTICAL SECTION – ALTERNATE 2

NOTES

1. ALL MATERIAL TO BE SUPPLIED AND INSTALLED BY CONTRACTOR UNLESS OTHERWISE SPECIFIED.
2. THRUST BLOCKS
   - PLACE 6 mil POLYETHYLENE ON INTERFACE BETWEEN CONCRETE AND FITTING.
   - PLACE 20 MPa CONCRETE AGAINST UN-DISTURBED GROUND; KEEP CONCRETE CLEAR OF FITTING JOINTS.
   - IF THRUST BLOCKS CANNOT BE PLACED AGAINST UNDISTURBED SOIL, THE SPACE BETWEEN THRUST BLOCK AND UNDISTURBED SOIL SHALL BE FILLED WITH CONTROL DENSITY FILL (CDF).
3. THRUST FLANGE
   - 1/2" STEEL PLATE WELDED TO SCH. 80, A106-B STEEL PIPE XH WALL
   - EPOXY LINED AND COATED

NO.	DATE	REVISIONS	BY
3	12-Mar-12	NOTE 3 ADDED	E.K.
2	08-Mar-09	Revised for UBC Technical Guidelines	D.B.
1	07-Dec-04	Revised for UBC Technical Guidelines	E.K.
0	07-06-02	FOR UBC TECHNICAL GUIDELINES	A.P.

UBC UTILITIES
THE UNIVERSITY OF BRITISH COLUMBIA

BUILDING/FACILITY

PROJECT TITLE
BUILDING WATER SUPPLY

DRAWING TITLE
WATER SERVICE BUILDING ENTRY STANDARD

SCALE	N.T.S.
DATE	APR. 08, 2009
DRAWN	D.B.
SHEET NO.	
REVIEWED	J.L.
CAD FILENAME	WATERENTRY.DWG
UBC PROJECT NO.	...
	1 OF 1
UBC DRAWING NO.	1140-UT-03-WATERENTRY.DWG
REV.	1

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SCALE: 1:500

SEAL

UBC Gage South
ULTIMATE DESIGN
UNDERGROUND WORKS

Civil Design
UTILITIES - PLAN/PROFILE
WATER

DRAWN: BC CHECKED: CN

C 41C

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