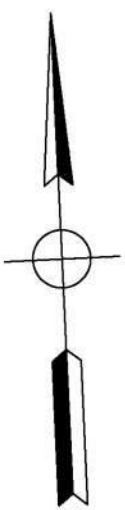


ISSUED FOR		
1	2024-02-05	TP3 - SITE PREP, SHORING, EXCAVATION REVIEW
2	2024-02-12	TP3 - SITE PREP, SHORING, EXCAVATION
3	2024-02-28	DEVELOPMENT PERMIT - STRIPPING AND GRADING

CITY OF CALGARY, ALBERTA

PLAN SHOWING SURVEY OF
TOPOGRAPHIC SURVEY

CALGARY EVENTS CENTRE



BY: NATHAN PRINS, A.L.S. 2024

LEGEND

Distances shown are in metres and decimals thereof.
Distances shown on curved boundaries are Arc distances.
Elevations are derived from ASCM _____ = 11._____
Bearings are Grid and derived from GPS observations.
The Coordinate System used for this plan is:
Datum — North American Datum 1983
Projection — 3° Transverse Mercator
Reference Meridian — 114° West Longitude
Combined Scale Factor — 0.999739

Elevations are shown thus:

Catch basins are shown thus:

Manholes are shown thus:

Fire Hydrants are shown thus:

Light Standards are shown thus:

Power Poles are shown thus:

Water Valves are shown thus:

Signs are shown thus:

Ballards are shown thus:

Gas lines are shown thus:

Sanitary lines are shown thus:

Storm lines are shown thus:

Water lines are shown thus:

Overhead Power lines are shown thus:

Buried Power lines are shown thus:

Telco & TV Cable lines are shown thus:

Face of Curb lines are shown thus:

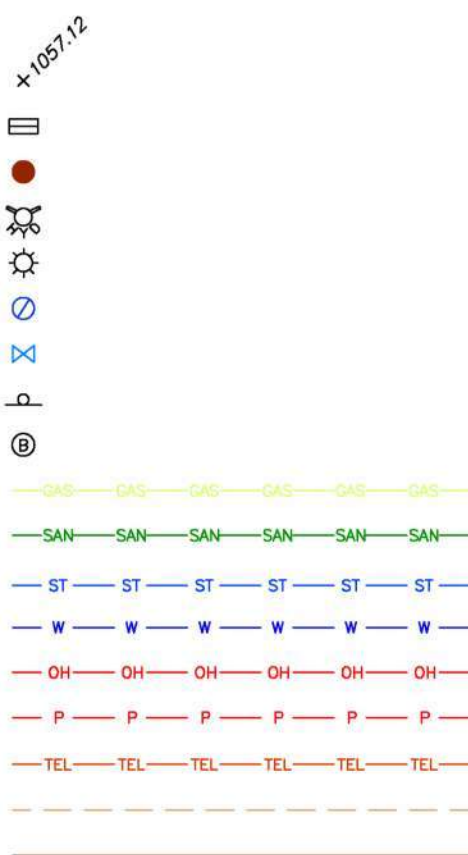
Lip of Gutter lines are shown thus:

Contour lines are at 0.25m intervals and shown thus:

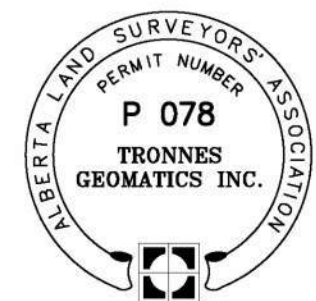
NOTE:
ALL UNDERGROUND SERVICES ARE TAKEN FROM CITY OF CALGARY BLOCK PROFILE, AND HAVE NOT BEEN LOCATED BY THE SURVEYOR.

ABBREVIATIONS

ASCM	Alberta Survey Control Marker	Res.	Restored
N.	North	Wit.	Witness
S.	South	R	Radius
E.	East	L	Arc Length
W.	West	ha	Hectare
Ac.	Acres	Ac.	Acres
Spk.	Spikes	Spk.	Spikes
Dr.	Drill Hole	m	Metres
B.O.C.	Back of Curb	W.C.R.	Wheel Chair Ramp
L.O.C.	Lip of Gutter	C.B.	Catch Basin
W.C.R.	Wheel Chair Ramp	Mt.	Manhole
C.B.	Catch Basin	LS	Light Standard
Mt.	Manhole	WV	Water Valve
LS	Light Standard	R/W	Right-of-Way
WV	Water Valve	Re-est.	Re-established
R/W	Right-of-Way		
Re-est.	Re-established		



UNDERGROUND UTILITY LOCATIONS ARE COLLABORATED FROM CITY OF CALGARY DRAWINGS, STANTEC, UTILITY LOCATORS AND OTHER SOURCES, THE LOCATION OR COMPLETENESS OF THE UTILITY LINES CANNOT BE CONFIRMED OR VERIFIED



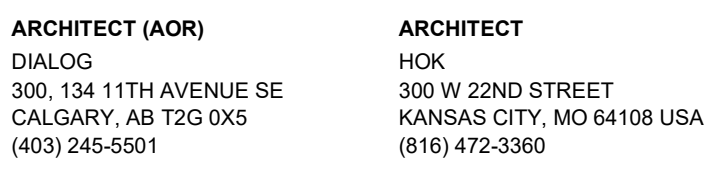
TRONNES GEOMATICS
1201-10th Street S.E., Calgary, Alberta T2H 2Z9
TEL: 403-268-0000 FAX: 403-268-0000

CAUTION — PRIOR TO ANY CONSTRUCTION UNDERGROUND FACILITIES NEED TO BE LOCATED BY:
CAD File: 21-1350-ST1-5.dwg

ALBERTA 1 CALL
CALL BEFORE YOU DIG
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METRIC

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VERIFY DIMENSIONS.
DO NOT SCALE THIS DRAWING.
REPORT INCONSISTENCIES AND OMISSIONS TO THE CONSULTANT FOR CLARIFICATION BEFORE COMMENCING WITH THE WORK.
DEVIATIONS FROM THE CONTRACT DOCUMENTS WITHOUT WRITTEN APPROVAL FROM THE CONSULTANT ARE SUBJECT TO CORRECTION AT THE CONTRACTOR'S EXPENSE.



ARCHITECT (AOR)
DIALOG
300, 134 11th Avenue SE
CALGARY, AB T2G 0X3
(403) 245-5501

STRUCTURAL ENGINEER (EOR)
ENTUITIVE
1510, 150 9th Avenue SW
CALGARY, AB T2P 3H9
(403) 879-1270

MECHANICAL ENGINEER (EOR)
REMEDY ENGINEERING
200, 1422 Kensington Road NW
CALGARY, AB T2N 3P9
(403) 584-6560

ELECTRICAL ENGINEER (EOR)
DIALOG
300, 134 11th Avenue SE
CALGARY, AB T2G 0X3
(403) 245-5501

ELECTRICAL ENGINEER
DESIGNCORE
100, 4723 1st Street SW
CALGARY, AB T2G 4Y8
(403) 269-2125

LANDSCAPE ARCHITECT
GROUND CURBED
25, 6020 2 Street SE
CALGARY, AB T2H 2L8
(403) 475-0719

KEYPLAN

ARCHITECT
HOK
300 W 22ND STREET
KANSAS CITY, MO 64108 USA
(816) 473-3360

STRUCTURAL ENGINEER
THORNTON TOMASETTI
900, 2323 GRAND BLVD
KANSAS CITY, MO 64108 USA
(816) 221-7771

MECHANICAL ENGINEER
ME ENGINEERS INC.
200, 14143 DENVER W PARKWAY
GOLDEN, CO 80401 USA
(303) 421-6555

ELECTRICAL ENGINEER
ME ENGINEERS INC.
300, 14143 DENVER W PARKWAY
GOLDEN, CO 80401 USA
(303) 421-6555

CIVIL ENGINEER
STANTEC CONSULTING LTD.
200, 325 25 STREET SE
CALGARY, AB T2A 7H6
(403) 716-8000

SEAL

519 - 12th AVE SE, CALGARY, AB
SITE SURVEY -
EXISTING

DRAWN: CO
PLOT DATE: 2/28/2024 1:37:45 PM
CHECKED: DM

A1.101
2007605

ISSUED FOR		
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STRUCTURAL ENGINEER (EOR) ENTUTIVE 1510, 150 9TH AVENUE SW CALGARY, AB T2P 3H9 (403) 879-1270	STRUCTURAL ENGINEER THORNTON TOMASETTI 900, 2323 GRAND BLVD KANSAS CITY, MO 64108 USA (816) 221-7771
MECHANICAL ENGINEER (EOR) REMEDY ENGINEERING 200, 1422 KENSINGTON ROAD NW CALGARY, AB T2N 3P9 (403) 584-5560	MECHANICAL ENGINEER ME ENGINEERS INC. 300, 14143 DENVER W PARKWAY GOLDEN, CO 80401 USA (303) 421-6555
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LANDSCAPE ARCHITECT GROUND CLUED 25, 6020 2 STREET SE CALGARY, AB T2H 2L8 (403) 475-0719	

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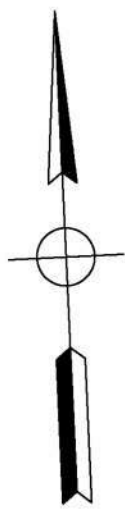
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CITY OF CALGARY, ALBERTA

PLAN SHOWING SURVEY OF
SPOT ELEVATIONS

CALGARY EVENTS CENTRE



BY: NATHAN PRINS, A.L.S. 2024

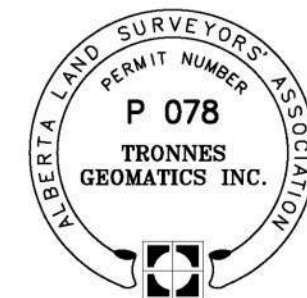
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S	South	R	Radius
E	East	L	Arc Length
W	West	ha	Hectare
Sec	Section	Ac	Acre
Twp	Township	Spt	Spike
Rge	Range	DH	Drill Hole
M	Metres	m	Metres
Fd	Found	B.O.C.	Back of Curb
Pl	Placed	L.O.G.	Lip of Gutter
I	Iron Post	WCS	Wheel Chair Ramp
LB	Iron Bar	CC	Curb Cut
Wk	Work	CB	Catch Basin
Mp	Marker Post	MH	Manhole
C.S.	Countersunk	LS	Light Standard
(R)	Radial Bearing	WV	Water Valve
R/W	Right-of-Way	BM	Benchmark
Re-est.	Re-established		

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CAUTION - PRIOR TO ANY
CONSTRUCTION
UNDERGROUND FACILITIES
NEED TO BE LOCATED BY:
CALL BEFORE YOU DIG
1-800-242-3447



TRONNES GEOMATICS INC. 6135 - 10th Street S.E., Calgary, Alberta T2H 2Z8; 403-207-0303; File: 23-1350 ST1-4

1 SITE SURVEY - EXISTING GRADING
SCALE: 1:200

FOR INFORMATION ONLY
FULL SURVEY PACKAGE TO BE PROVIDED BY CONSTRUCTION MANAGER

CALGARY
EVENT CENTRE

519 - 12th AVE SE, CALGARY, AB

SITE SURVEY -
EXISTING GRADING

DRAWN: CO
PLOT DATE: 2/28/2024 1:37:48 PM
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A1.102

2007605

Address: Docs\18700078\COV Event Centre\A1.102_KR_EC.rvt

ISSUED FOR
1 2024-02-12 TP3 - SITE PREP, SHORING, EXCAVATION
2 2024-02-26 TP3 - ADDENDUM 1
3 2024-02-28 DEVELOPMENT PERMIT - STRIPPING AND GRADING

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STRUCTURAL ENGINEER (EOR) ENTUITIVE 1510, 150 9TH AVENUE SW CALGARY, AB T2P 3H8 (403) 879-1270	STRUCTURAL ENGINEER THORNTON TOMASETTI 900, 2323 GRAND BLVD KANSAS CITY, MO 64108 USA (816) 221-7771
MECHANICAL ENGINEER (EOR) REMEDY ENGINEERING 200, 1422 KENSINGTON ROAD NW CALGARY, AB T2N 3P9 (403) 584-6560	MECHANICAL ENGINEER ME ENGINEERS INC. 250, 14143 DENVER W PARKWAY GOLDEN, CO 80401 USA (303) 421-6655
ELECTRICAL ENGINEER (EOR) DIALOG 300, 134 11th AVENUE SE CALGARY, AB T2G 0X3 (403) 245-5501	ELECTRICAL ENGINEER ME ENGINEERS INC. 300, 14143 DENVER W PARKWAY GOLDEN, CO 80401 USA (303) 421-6655
ELECTRICAL ENGINEER DESIGNCORE 910, 4723 1ST STREET SW CALGARY, AB T2G 4Y8 (403) 289-2125	CIVIL ENGINEER STANTEC CONSULTING LTD. 200, 325 25 STREET SE CALGARY, AB T2A 7H8 (403) 716-8000

LANDSCAPE ARCHITECT
GROUND CLUES
25, 6020 2 STREET SE
CALGARY, AB T2H 2L8
(403) 475-0719

KEYPLAN

SEAL

CALGARY EVENT CENTRE

519 - 12th AVE SE, CALGARY, AB

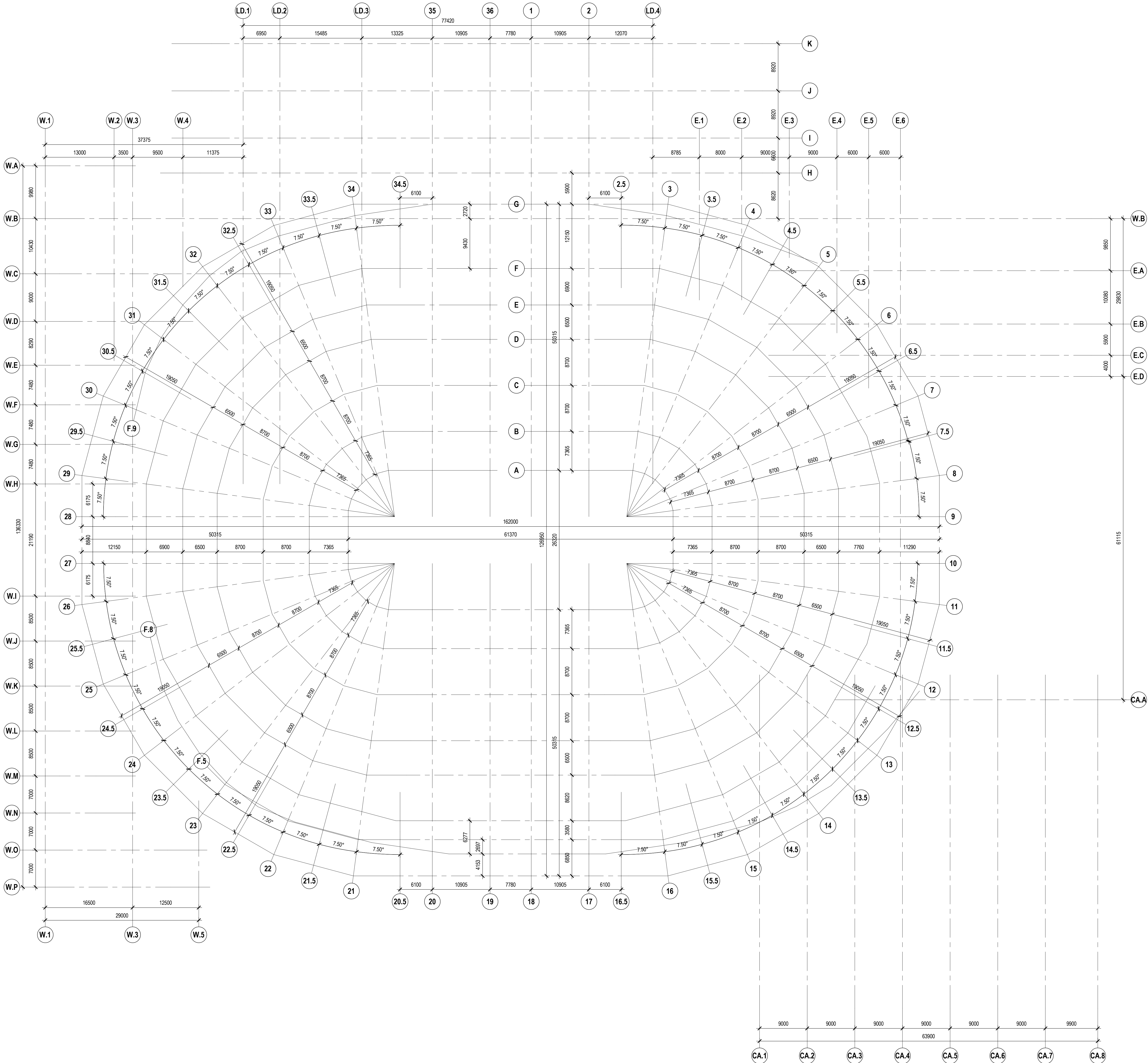
GRID GEOMETRY
PLAN

DRAWN: CO
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CHECKED: DM

A1.200

2007605

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1 GRID GEOMETRY PLAN
A1.200 SCALE: 1:300

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ELECTRICAL ENGINEER DESIGNCORE 610, 4723 1ST STREET SW CALGARY, AB T2G 4Y8 (403) 269-2125	CIVIL ENGINEER STANTEC CONSULTING LTD. 200, 325 26 STREET SE CALGARY, AB T2A 7H8 (403) 716-8000

LANDSCAPE ARCHITECT
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BEDROCK SURFACE
CONTOUR PLAN

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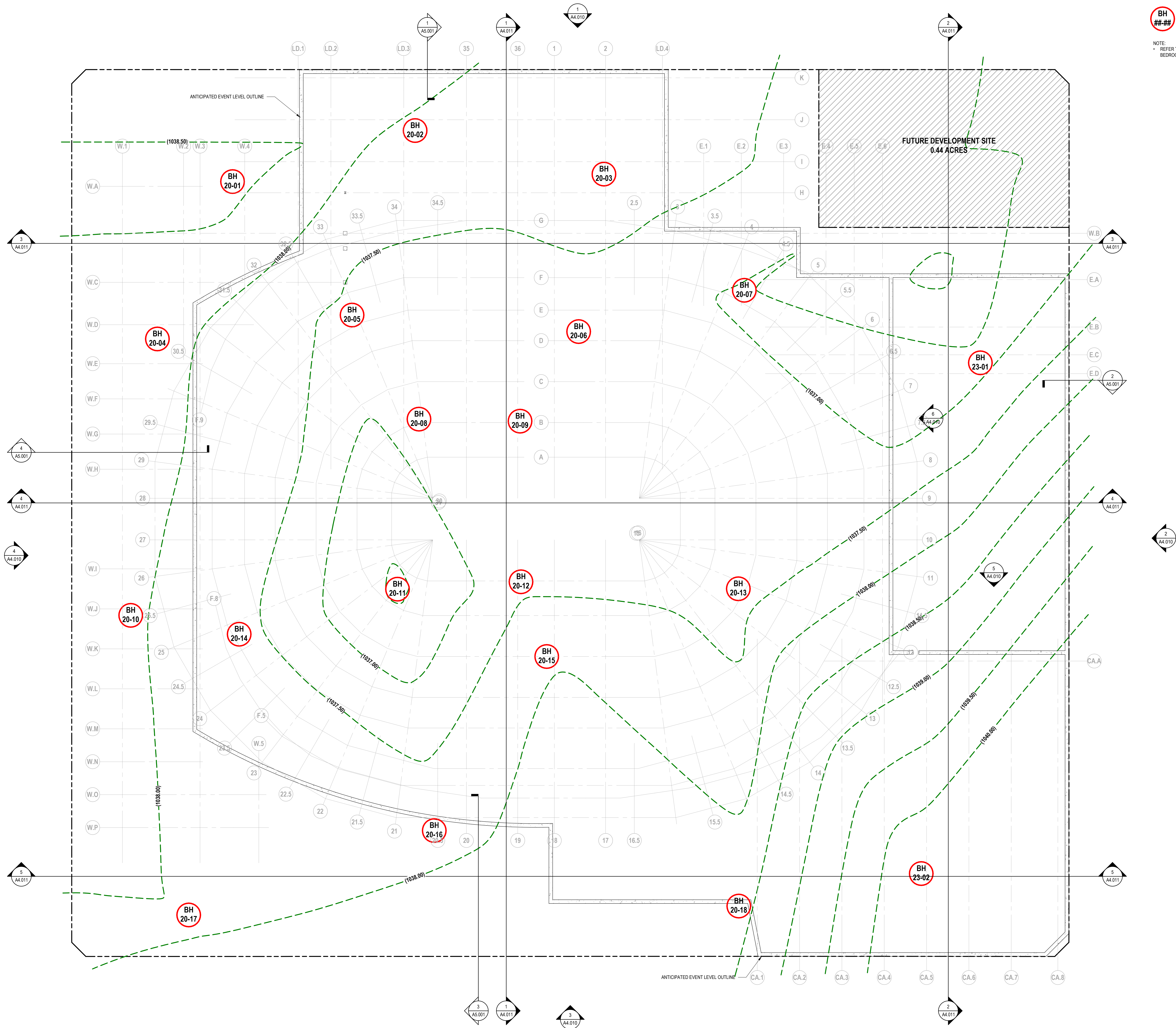
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BEDROCK CONTOUR LEGEND

--- BEDROCK ELEVATION CONTOURS (INTERPRETED FROM BOREHOLES)

BH ### BOREHOLE LOCATIONS

NOTE:
* REFER TO GEOTECHNICAL REPORT FOR ALL BEDROCK SURFACE INFORMATION



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ARCHITECT (AOR)

DIALOG
300, 134 11TH AVENUE SE
CALGARY, AB T2G 0X3
(403) 245-5501

STRUCTURAL ENGINEER (EOR)

THORNTON TOMASETTI
900, 2323 GRAND BLVD
KANSAS CITY, MO 64108 USA
(816) 473-3360

MECHANICAL ENGINEER (EOR)

REMEDY ENGINEERING
200, 1422 KENSINGTON ROAD NW
CALGARY, AB T2P 3H9
(403) 879-1270

ELECTRICAL ENGINEER (EOR)

DIALOG
300, 134 11TH AVENUE SE
CALGARY, AB T2G 0X3
(403) 245-5501

ELECTRICAL ENGINEER

DESIGNCORE
100, 4723 1ST STREET SW
CALGARY, AB T2G 4Y8
(403) 289-2125

LANDSCAPE ARCHITECT

GROUND CUBED
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CALGARY, AB T2H 3L8
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KEYPLAN

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EVENT LEVEL - OVERALL SHORING / EXCAVATION PLAN

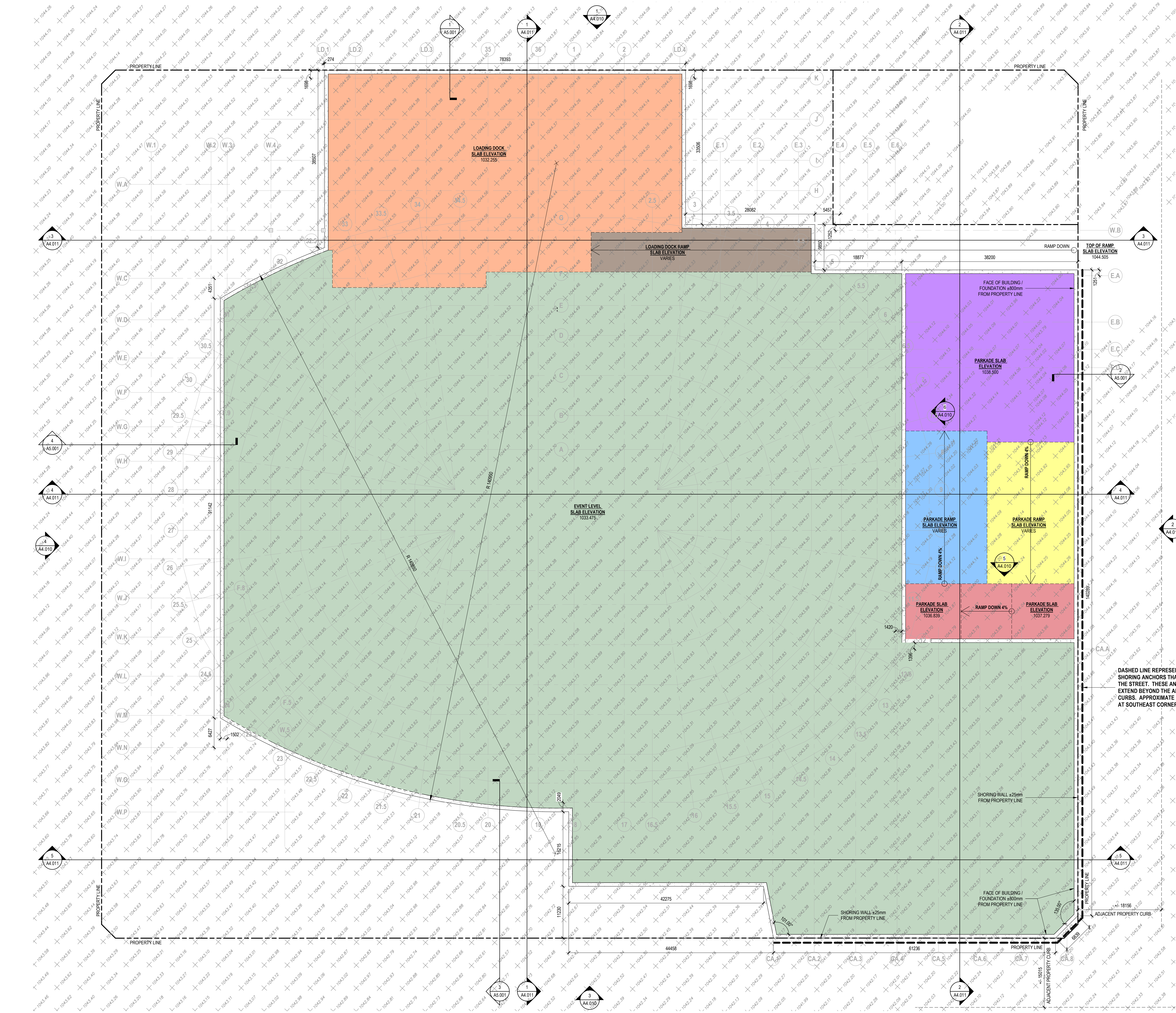
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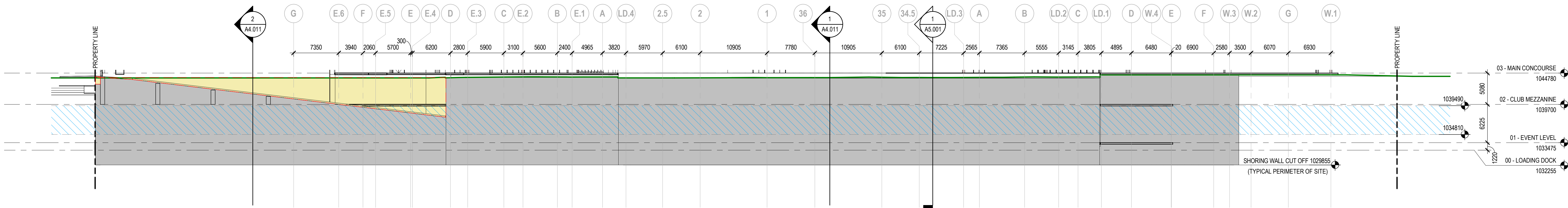
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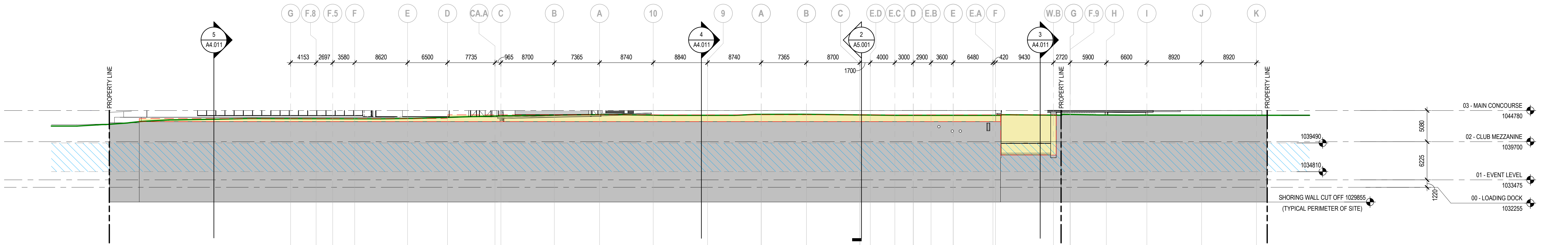
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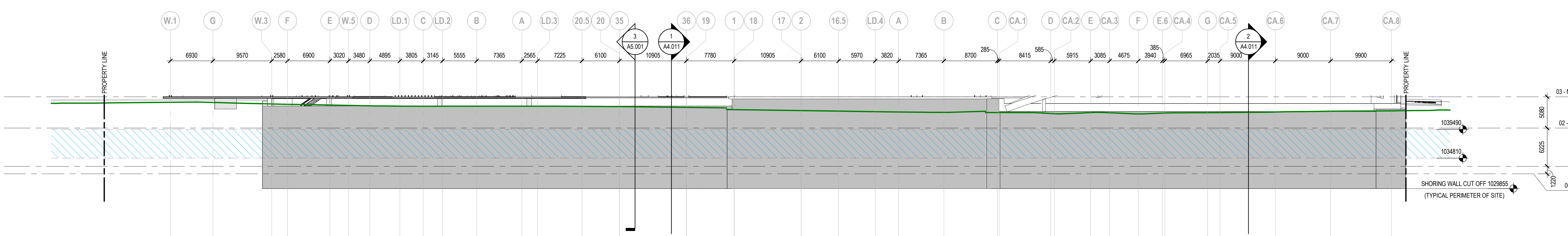
01 - EVENT LEVEL - OVERALL SHORING / EXCAVATION PLAN
SCALE: 1:300



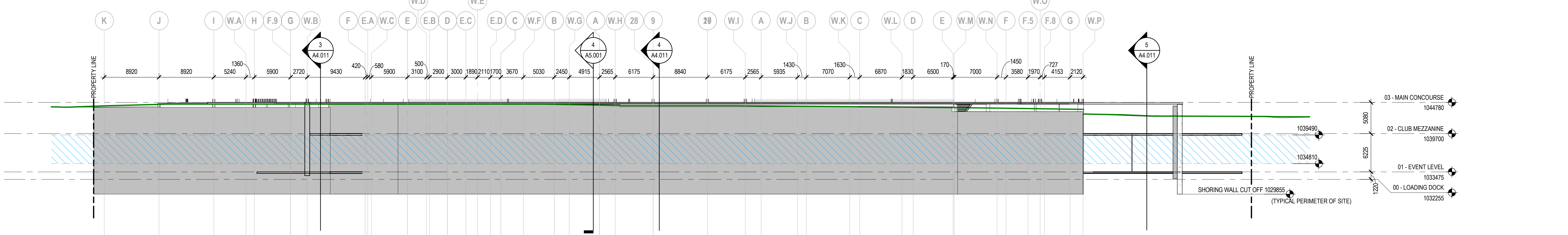
1 SHORING WALL ELEVATION - NORTH
SCALE: 1:300



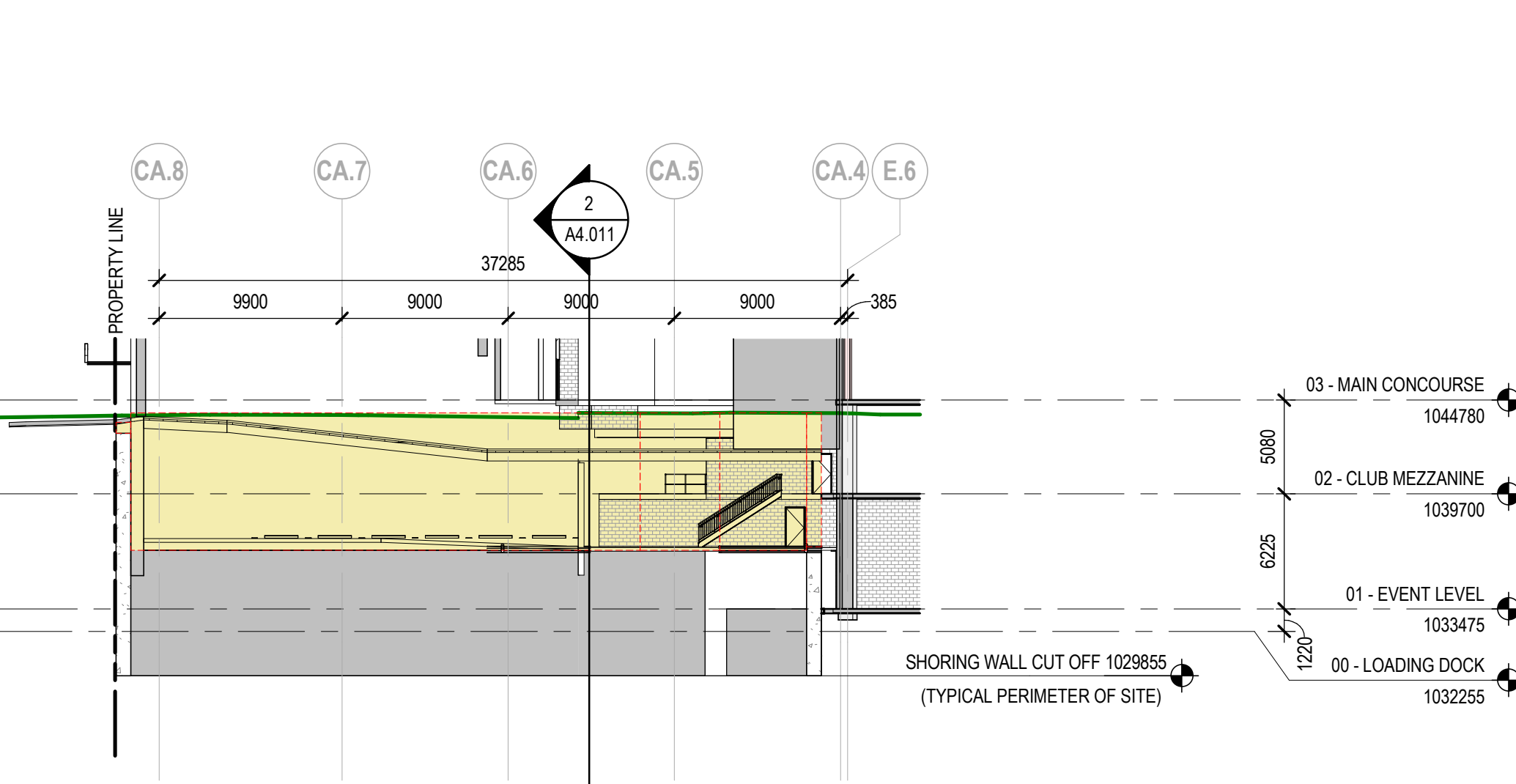
2 SHORING WALL ELEVATION - EAST
SCALE: 1:300



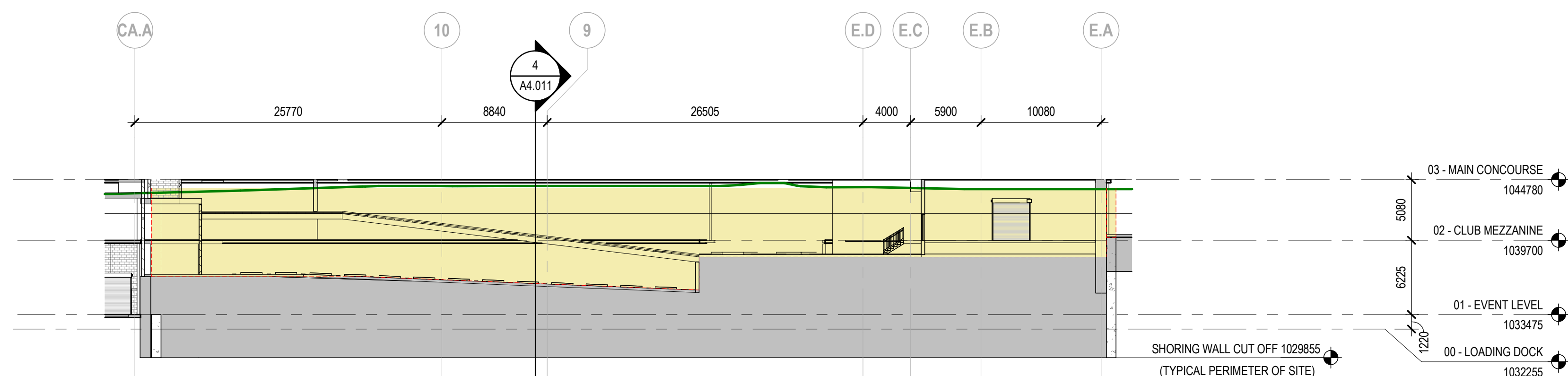
3 SHORING WALL ELEVATION - SOUTH
SCALE: 1:300



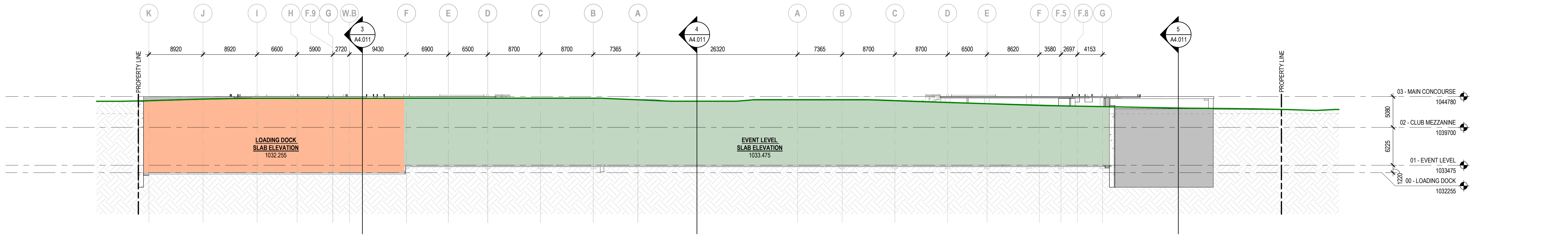
4 SHORING WALL ELEVATION - WEST
SCALE: 1:300



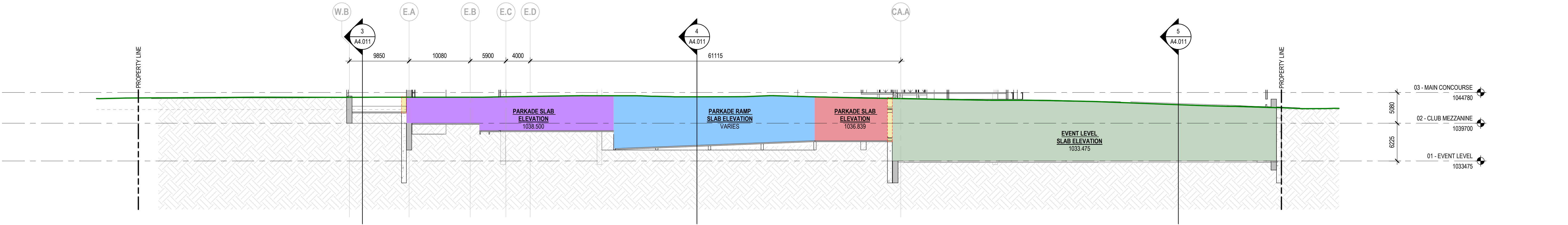
5 SHORING WALL ELEVATION - INTERNAL PARKADE SOUTH
SCALE: 1:300



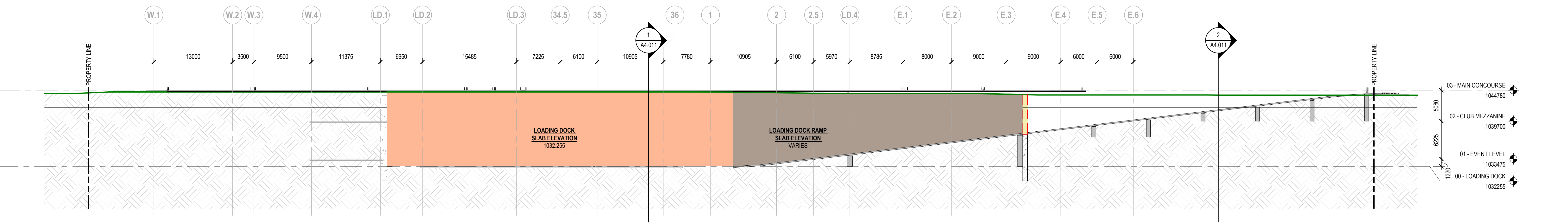
6 SHORING WALL ELEVATION - INTERNAL PARKADE WEST WALL
SCALE: 1:300



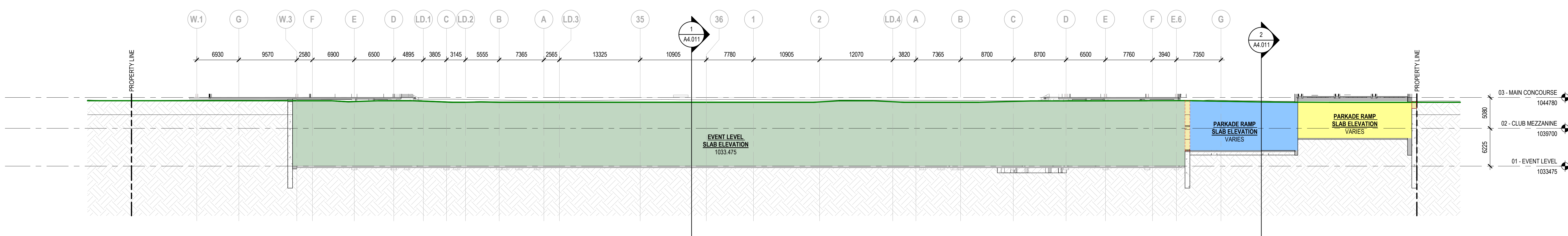
1 NORTH / SOUTH BUILDING SECTION 1 - EXCAVATION
SCALE: 1:300



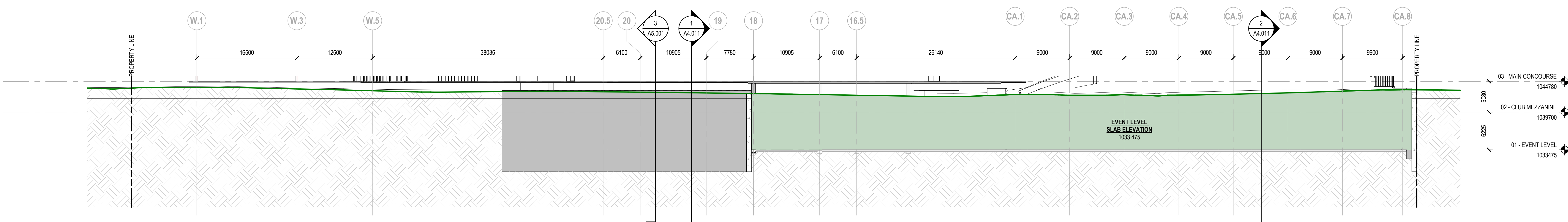
2 NORTH / SOUTH BUILDING SECTION 2 - EXCAVATION
SCALE: 1:300



3 EAST / WEST BUILDING SECTION 1 - EXCAVATION
SCALE: 1:300



4 EAST / WEST BUILDING SECTION 2 - EXCAVATION
SCALE: 1:300



5 EAST / WEST BUILDING SECTION 3 - EXCAVATION
SCALE: 1:300

Pedestrian flow

8Foot wood hoarding panels braced to Lego Blocks

Jersey Barrier with Chain link fence panels

Staff Access turnstyle

Temp Power

Gate access point

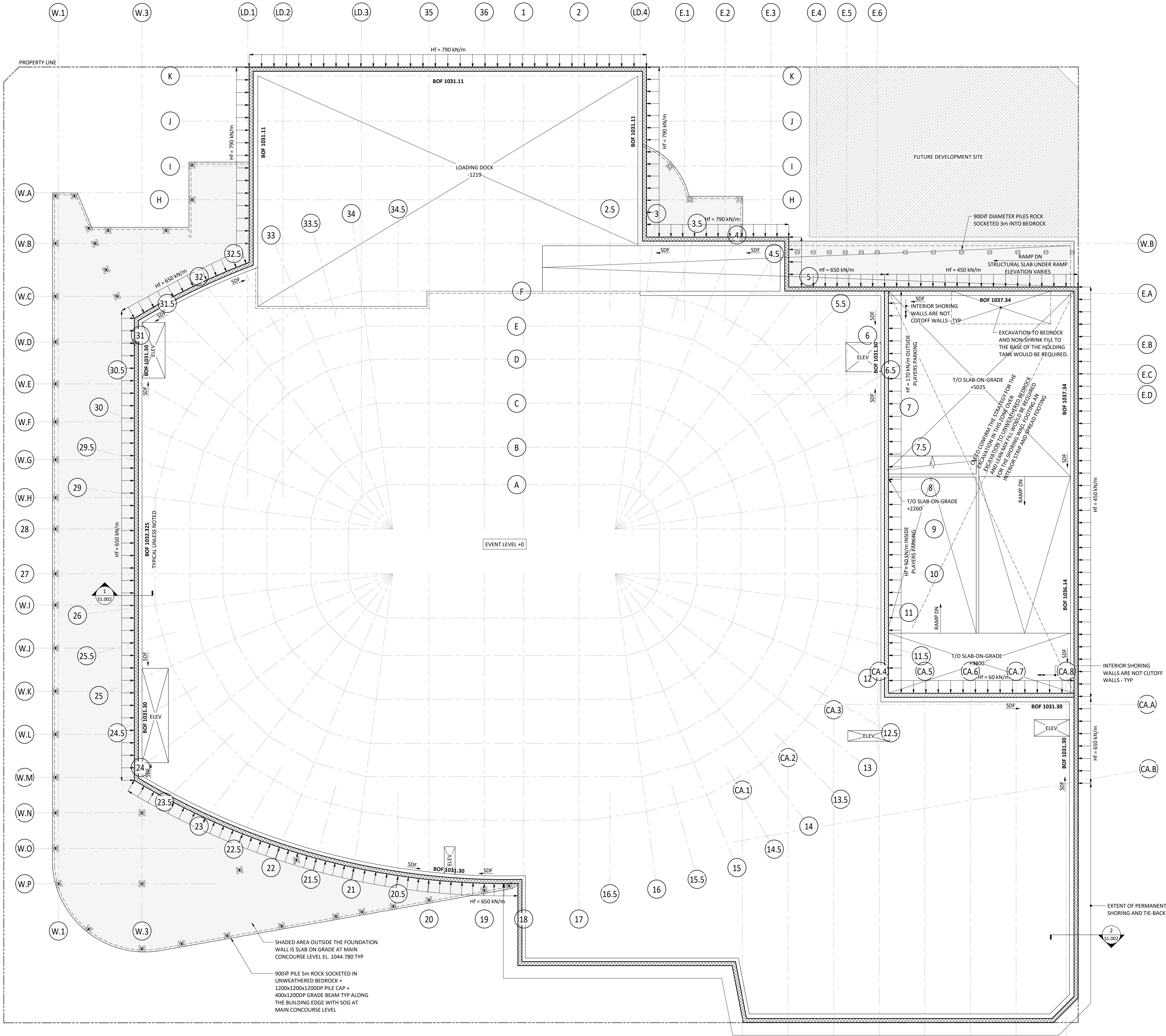
Pedestrian flow alternates either side of Stampede trail starting with the East while Stampede trail is under construction. Once complete ped flow will relocate to the West side

North lane used for construction until 14th Ave regrading is undertaken

CEC School Bus Drop off

Dewatering

MUSTER POINT



OVERALL PLAN - SHORING PLAN

- SHORING DESIGN AND CONSTRUCTION IS A DELEGATED DESIGN ITEM USING PERFORMANCE REQUIREMENTS.
- THE SHORING CONTRACTOR SHALL EMPLOY OR RETAIN A PROFESSIONAL ENGINEER, LICENSED IN ALBERTA TO DESIGN AND DETAIL AND SUPERVISE ALL ASPECTS OF SHORING SYSTEM.
- SHORING SYSTEM (BOTH TEMPORARY AND PERMANENT CONDITION) IS TO BE BUILT IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL BUILDING CODE (ALBERTA EDITION) 2023, AND ANY APPLICABLE REQUIREMENTS OR BY LAWS OF THE AUTHORITY HAVING JURISDICTION.
- COMPLY WITH THE DESIGN GUIDELINES FOR CITY OF CALGARY FUNDED BUILDINGS.
- A COPY OF THE GEOTECHNICAL INVESTIGATION REPORT BY TETRA TECH DATED DECEMBER 2023, TITLED "GEOTECHNICAL EVALUATION PROPOSED EVENT CENTRE 12 AVENUE TO 14 AVENUE AND OLYMPIC WAY SE TO 5 STREET SE, CALGARY, ALBERTA" (ISSUED FOR USE: FILE 704-ENG CGE004472-01) IS AVAILABLE FROM THE CONSULTANT. THIS INFORMATION IS AVAILABLE SOLELY AS A GUIDE. NO RESPONSIBILITY IS ACCEPTED BY THE OWNER OR THE CONSULTANT FOR ITS CORRECTNESS, NOR SHALL ITS ACCURACY EFFECT THE PROVISION OF THIS CONTRACT.
- TEMPORARY CONDITION:
 - TEMPORARY TIE BACK SHORING SYSTEM IS ANTICIPATED EXCEPT AT THE SOUTH-EAST CORNER AROUND THE COMMUNITY ICE RINK WHERE SHORING WALL AND TIE BACK SHALL BE PERMANENT. THE END OF TIE BACK ANCHOR SHALL BE CAPPED TO ALLOW FOR SMOOTH TRANSITION OF WATERPROOFING MEMBRANE AND THE COMPLETE ASSEMBLY OF THE TIE BACK ANCHOR SYSTEM (INCLUDING THE CAP) SHALL NOT PROJECT MORE THAN 300 mm INTO THE FOUNDATION WALL.
 - REFER TO THE SURVEY DRAWING FOR THE EXISTING GRADE ELEVATION.
 - FOUNDATION WALL FOOTING ELEVATIONS ARE NOTED ON THE PLAN. ALLOW FOR 75mm OF MUD SLAB BELOW FOOTING TO WORK OUT THE DEPTH OF EXCAVATION. BOTTOM OF EXCAVATION IS NOTED ON PLAN ADJACENT TO THE ELEVATOR PITS.
 - GEOTECHNICAL REPORT SHOWS THE CONTOUR MAP OF THE BEDROCK. IT IS ANTICIPATED THAT THE TOP 1.0m OF THE BEDROCK IS HIGHLY WEATHERED AND THEREFORE NOT SUITABLE TO SUPPORT THE FOUNDATION. HIGHLY WEATHERED BEDROCK UNDER THE FOOTING IS REQUIRED TO BE EXCAVATED AND REPLACED WITH LEAN MIX CONCRETE. EXCAVATION ELEVATION AT SOME LOCATIONS MAY BE LOWER THAN THE FOOTING ELEVATION. TEMPORARY EXCAVATION SHORING SYSTEM SHALL BE DESIGNED FOR THE LOWER OF THE TWO ELEVATIONS.
 - TEMPORARY AND PERMANENT SHORING SYSTEM SHALL BE DESIGNED FOR 12kPa SURCHARGE LOAD IN ADDITION TO SOIL PRESURE AND GROUNDWATER LOAD.
- PERMANENT CONDITION:
 - FOR ADDITIONAL REDUNDANCY, IT IS ASSUMED THAT SLAB ON GRADE IS NOT PRESENT OR IS NOT CAPABLE TO RESIST THE LOADS IMPOSED FROM THE FOUNDATION WALL STRIP FOOTING. PERIMETER STRIP FOOTING IS REQUIRED TO BE CONNECTED TO THE SHORING WALL TO RESIST THE HORIZONTAL FORCES IN PERMANENT CONDITION. SHORING SYSTEM BELOW THE PERIMETER STRIP FOOTING SHALL BE DESIGNED AS PERMANENT STRUCTURE CAPABLE OF RESISTING FACTORED HORIZONTAL FORCES (HF) NOTED ON THE PLAN. STRAP PLATE WELDED TO THE STEEL PILES ARE ANTICIPATED FOR LOAD TRANSFER FROM THE FOOTING TO THE SHORING PILE.
 - HORIZONTAL MOVEMENT OF SHORING PILE SHALL BE LIMITED TO 15mm UNDER SERVICE LOAD. SERVICE LOAD SHALL BE ASSUMED TO BE 75% OF THE FACTORED LOAD NOTED ON THE PLAN.
 - IN ACCORDANCE WITH THE REQUIREMENTS OF CLAUSE 6.3 OF THE DESIGN GUIDELINES FOR CITY OF CALGARY FUNDED BUILDINGS, ALL NEW BUILDINGS ARE REQUIRED TO HAVE A DESIGN LIFE OF 75 YEARS - OR "LONG LIFE" PER CSA-S478 GUIDELINE ON DURABILITY IN BUILDINGS. PILE SYSTEM RESISTING HORIZONTAL FORCES BELOW SLAB ON GRADE SHALL HAVE MATERIAL DURABILITY CONSISTENT WITH THIS REQUIREMENT.
 - SHORING WALL ACTS AS A BARRIER TO REDUCE THE RATE OF WATER FLOW UNDER FLOOD EVENT. BOTTOM CUT OFF ELEVATION OF SHORING WALL SHALL BE AT LEAST 2.0m BELOW THE EXCAVATED DEPTH OF THE LOWEST SLAB ON GRADE. LOWEST SLAB ON GRADE IS THE MAIN LOADING DOCK SLAB. ACCORDINGLY BOTTOM CUTOFF ELEVATION IS 1029.855m UNIFORM AROUND THE EXTERIOR PERIMETER.
- TOP OF WALL ELEVATION:
 - TOP OF SHORING WALL ELEVATION VARIES. REFER TO ARCHITECTURAL DRAWING FOR TOP OF SHORING WALL ELEVATION.
- PERMANENT SHORING WALL AROUND COMMUNITY ICE RINK:
 - DESIGN PERMANENT SHORING WALL FOR LATERAL LOADS IMPOSED BY SOIL, SURCHARGE AND 350 YEAR FLOOD WATER ELEVATION OF 1043.35m.
 - PERMANENT SHORING WALL SHALL HAVE DURABLE CONCRETE FOR THE FULL HEIGHT OF THE WALL. CONCRETE STRENGTH SHALL NOT BE LESS THAN 20MPa.
 - PERMANENT TIE BACK ANCHORS SHALL BE PRE-STRESSED TO ENSURE THAT THERE IS NO MOVEMENT AT THE TOP OF FOUNDATION WALL IN THE EVENT OF FULL DESIGN LOADING.
 - HORIZONTAL EXTENT OF PERMANENT TIE BACK SHALL NOT ENCR OACH INTO THE PROPERTY ACROSS THE STREET.
- EVENT LEVEL SLAB ON GRADE IS AT ELEVATION 1033.475 EXCEPT AS CROSSED AND NOTED. SLAB ON GRADE ELEVATION FOR AREA CROSSED AND NOTED ARE TO BE READ FROM EVENT LEVEL.

ENTUITIVE

Thornton Tomasetti

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2	2024-02-05	TP3 - SITE PREP, SHORING, EXCAVATION REVIEW	
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ARCHITECT (AOR)
DIALOG
300, 134 11th Avenue SE
CALGARY, AB T2G 0X3
(403) 245-5501

STRUCTURAL ENGINEER (EOR)
ENTUITIVE
1510, 150 8th Avenue SW
CALGARY, AB T2P 3H9
(403) 879-1270

MECHANICAL ENGINEER (EOR)
REMEDY ENGINEERING
1422 KENSINGTON ROAD NW
CALGARY, AB T2N 3P9
(403) 594-5990

ELECTRICAL ENGINEER (EOR)
DIALOG
300, 134 11th Avenue SE
CALGARY, AB T2G 0X3
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ELECTRICAL ENGINEER
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ARCHITECT
HOK
300 W 22ND STREET
KANSAS CITY, MO 64108 USA
(816) 472-3360

STRUCTURAL ENGINEER
THORNTON TOMASETTI
900, 2323 GRAND BLVD
KANSAS CITY, MO 64108 USA
(816) 221-7771

MECHANICAL ENGINEER
ME ENGINEERS INC.
230, 14145 DENVER W PARKWAY
GOLDEN, CO 80401 USA
(303) 421-6655

ELECTRICAL ENGINEER
ME ENGINEERS INC.
300, 14145 DENVER W PARKWAY
GOLDEN, CO 80401 USA
(303) 421-6655

CIVIL ENGINEER
STANTEC CONSULTING LTD.
200, 325 26 STREET SE
CALGARY, AB T2A 7H8
(403) 716-8000

KEYPLAN

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ENTUITIVE CORPORATION
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Date: 2024-02-27
PERMIT NUMBER: P11274
The Association of Professional Engineers and Geoscientists of Alberta

CALGARY EVENT CENTRE

519 - 12th AVE SE, CALGARY, AB

EVENT LEVEL
FOUNDATION SHORING
PLAN & NOTES

DRAWN: CCB CHECKED: IW
PLOT DATE: 2024-02-27 10:37:52 AM

S1.001

EN023-02065 & T23076

Autodesk Docs:18P100376:027 Event CentreSL1_T1_S1R_SL1_C01-v1

