

SLOPE STABILIZATION AND PLAY ENHANCEMENTS

TDSB PROJECT NO. TR-20-0568

ALLENBY JUNIOR PUBLIC SCHOOL

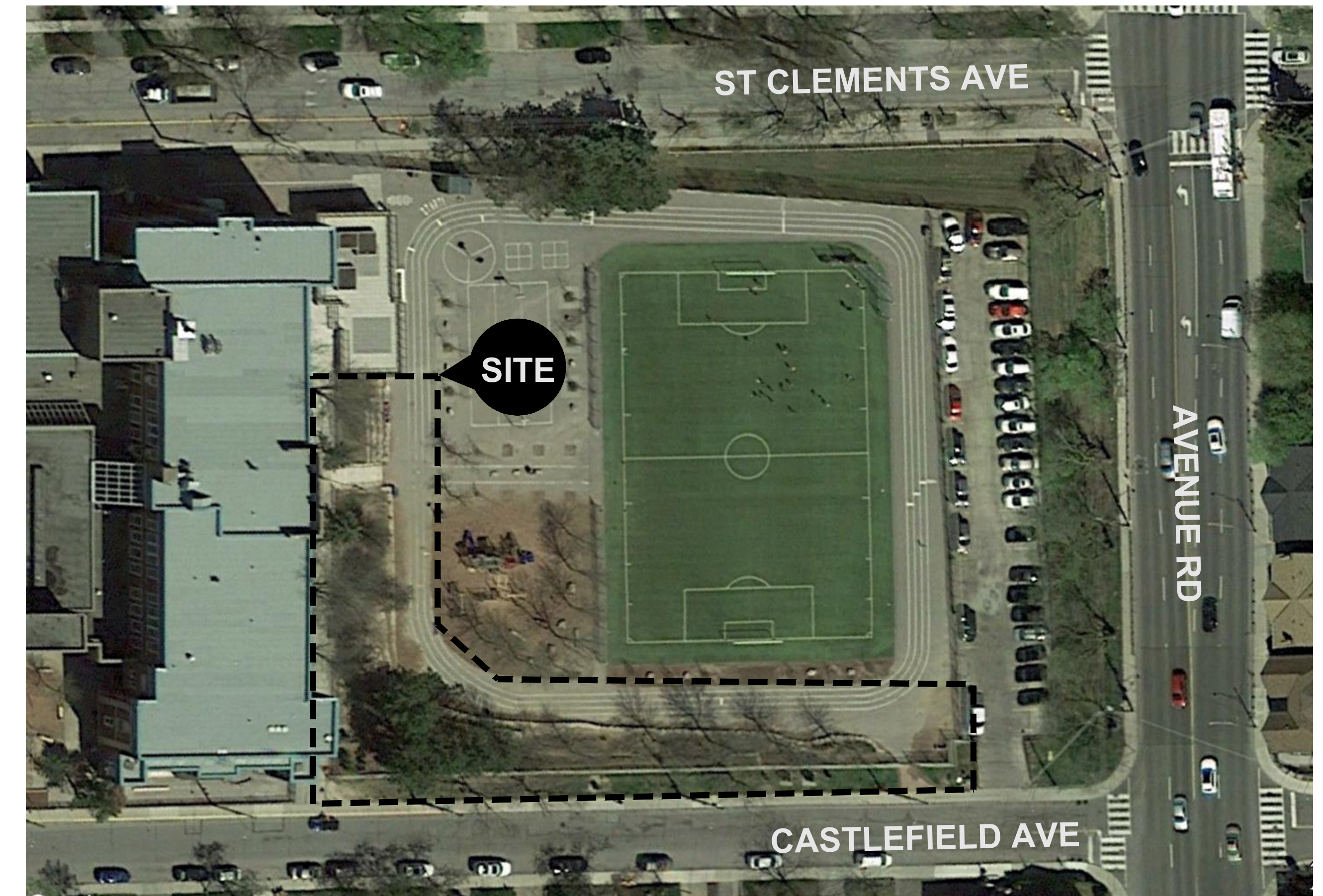
391 ST CLEMENTS AVE, TORONTO, ON

ISSUED FOR TENDER - APRIL 21, 2022

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SITE LOCATION:



CLIENT



Toronto District School Board
15 Oakburn Cres
Toronto, ON M2N 2T5
p. 416 395 4759

CONSULTANT



LANDSCAPE ARCHITECT
thincdesign
171 East Liberty Street, Suite 266
Toronto ON M6K 3P6
p +1 416 236 3335
f +1 866 496 0239
studio@thincdesign.ca

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01	ISSUED FOR TENDER
	2022-04-21
NO. REVISIONS	DATE

CLIENT: TDSB
 TEAM: ARCHITECT: MECHANICAL: CIVIL: ELECTRICAL: TRANSPORTATION: IRRIGATION:

- GENERAL NOTES**
- ALL DRAWINGS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
 - THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
 - ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED ON REQUEST.
 - DO NOT SCALE DRAWINGS.

LEGEND
 *SEE ADJACENT

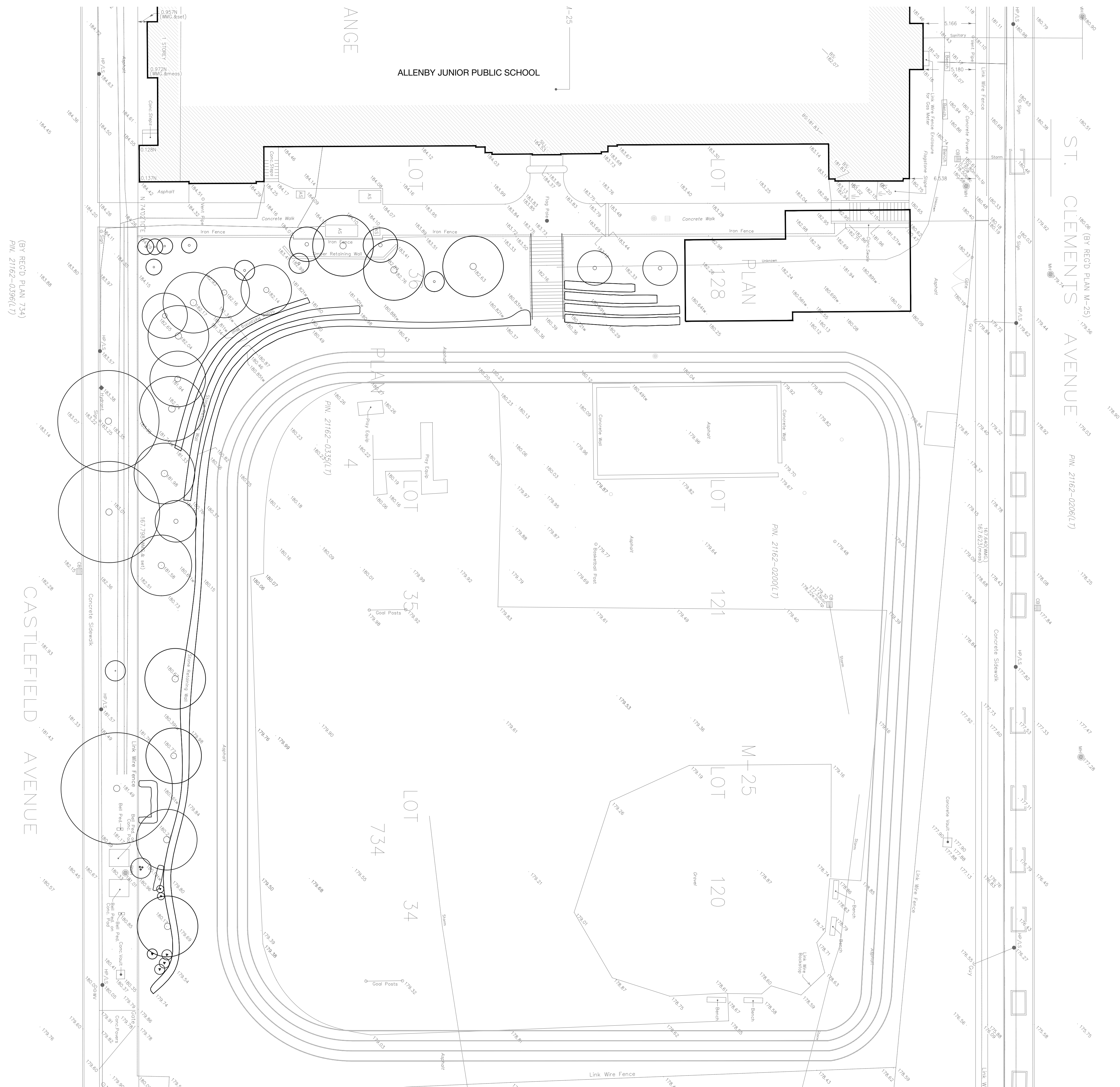
NOTE

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□ DENOTES SURVEY MONUMENT SET
 ■ SURVEY MONUMENT FOUND
 SUB STANDARD IRON BAR
 IB IRON BAR
 CC CUT CROSS
 RT IRON TUBE
 RP ROCK POST
 PL REGISTERED PLAN M-25
 PLT REGISTERED PLAN 734
 CTS CITY OF TORONTO SURVEYORS
 der.1176 DONALD E. ROBERTS O.L.S.
 WMC WINTERS, MAUGHAN & GLENDAY
 WF LINK WIRE FENCE
 UP UTILITY POLE
 HP HYDRO POLE
 LS LIGHT STANDARD
 BF BOARD FENCE
 AS AIR SHAFT
 TW TOP OF WALL
 VC VALVE CHAMBER
 HV HYDRO VAULT
 PS PARKING SIGN
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 WV WATER VALVE
 FP FLAG POLE
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 BOC BOTTOM OF CHAMBER
 TP TOP OF PIPE

BUILDING TIES ARE TO BRICK CORNERS EXCEPT AS NOTED.

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 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL UNDERGROUND UTILITIES AND TAKING THE NECESSARY PRECAUTIONS TO PROTECT FOR THE DURATION OF THE PROJECT ALL ABOVE AND BELOW GRADE ELEMENTS TO REMAIN ON SITE.
 - CHECK AND VERIFY DIMENSIONS WHEREVER REFERRING TO WORK. DETAILS AND MEASUREMENTS OF WORK, WHICH FIT OR CONFIRM WITH WORK INSTALLED, SHALL BE TAKEN AT SITE.
 - IF THERE IS AMBIGUITY, LACK OF INFORMATION OR INCONSISTENCY IMMEDIATELY CONSULT OWNER'S REPRESENTATIVE FOR DIRECTIONS. BE RESPONSIBLE FOR EXTRA COSTS INVOLVED THROUGH DISREGARD OF THIS NOTICE.
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 - THE CONTRACTOR WILL CLEAN AND REINSTATE ALL AREAS DAMAGED OR AFFECTED BY WORKS OUTSIDE OF THE CONSTRUCTION ZONE TO CONDITIONS THAT EXISTED BEFORE CONSTRUCTION OR BETTER TO THE SATISFACTION OF THE OWNER AND AT THE EXPENSE OF THE CONTRACTOR.
 - ASPHALT TO BE CLEANLY SAW CUT AT ALL LIMITS. SAW CUTS TO BE PROTECTED.
 - ANY SODDED AREAS DAMAGED BY CONSTRUCTION TO BE RESTORED.



01 ISSUED FOR TENDER 2022 04 21
 NO. REVISIONS DATE

CLIENT: **TORONTO DISTRICT SCHOOL BOARD**

PROJECT: **ALLENBY JPS SLOPE STABILIZATION**

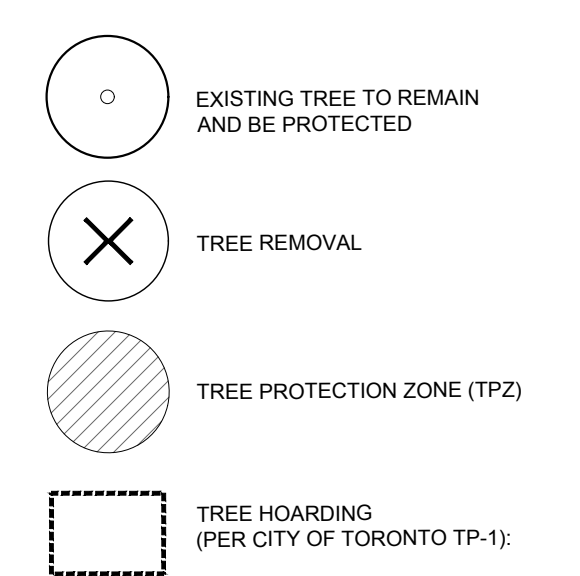
TITLE: **EXISTING CONDITIONS PLAN**

PROJECT NO: 21005
 SCALE: 1:200
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022

CLIENT: TDSB
 TEAM:
 ARCHITECT:
 STRUCTURAL:
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 3. ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED ON REQUEST.
 4. DO NOT SCALE DRAWINGS.

LEGEND



TREE PROTECTION NOTES

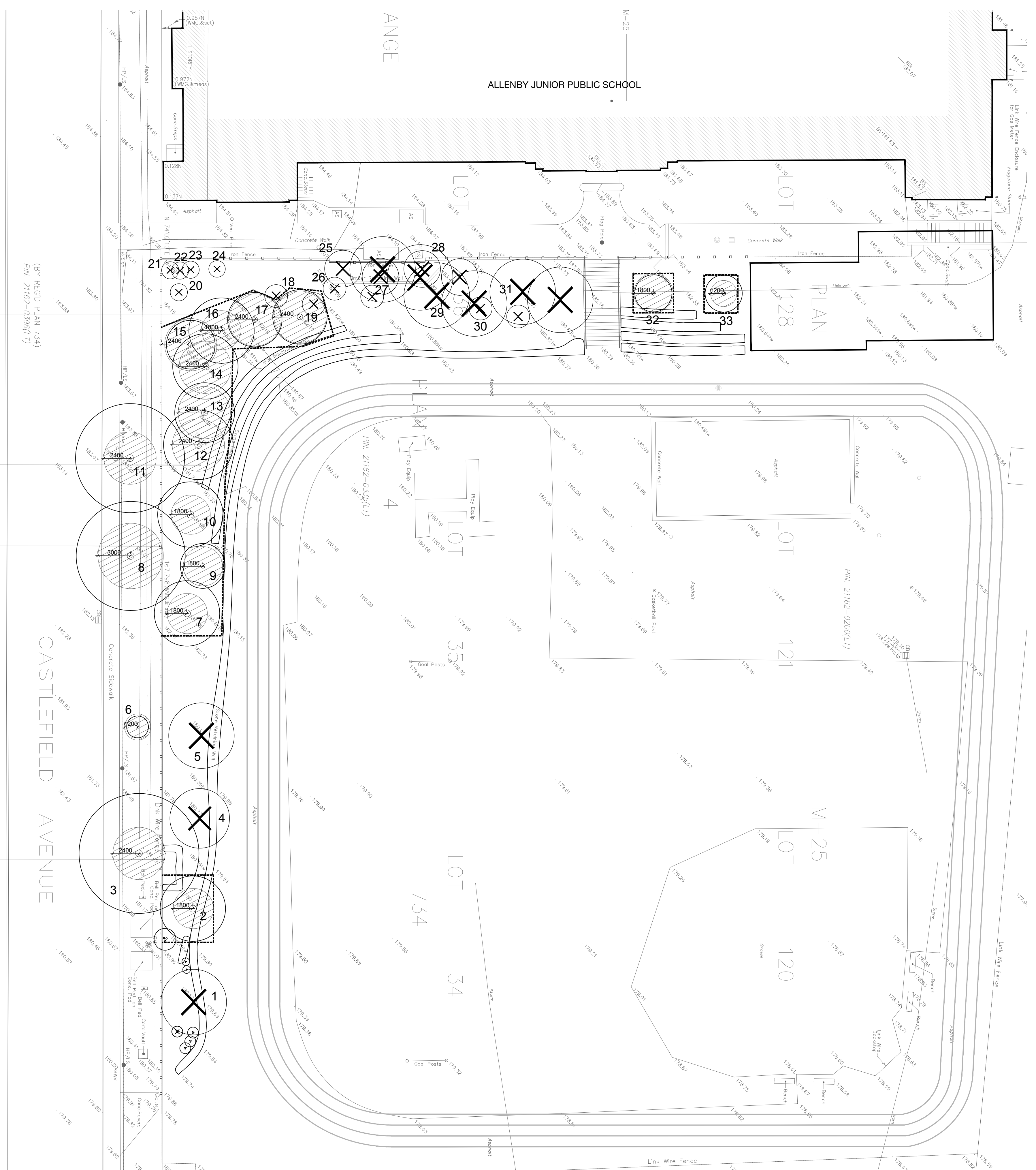
1. INSTALL TREE PROTECTION HOARDINGS PER CITY OF TORONTO TREE PROTECTION BYLAW INDICATED ON PLAN AS TP2 MINIMUM, UNLESS OTHERWISE NOTED.
2. TREE PROTECTION ZONES (TPZ), TREE PROTECTION HOARDING SHOULD BE PLACED ACCORDING TO THE CITY OF TORONTO TREE PROTECTION FENCING SHOULD BE INSTALLED AS PER THE STANDARD CITY OF TORONTO DETAIL. [HTTP://WWW.TORONTO.CA/TREES/TPZS/TREEPROTSPECS.PDF](http://www.toronto.ca/trees/tpzs/treeprotspecs.pdf).
3. NO TREE WORK SHALL OCCUR WITHOUT PRIOR WRITTEN PERMISSION. IF REQUIRED, ALL TREE WORK TO BE PERFORMED BY AN ISA CERTIFIED ARBORIST.
4. NO ACTIVITY, OR STORAGE OF ANY KIND, IS TO TAKE PLACE WITHIN THE TREE PROTECTION ZONE (TPZ).
5. FOR FURTHER INFORMATION ON THE SITE'S EXISTING TREES, PLEASE REFER TO THE ARBORIST REPORT DATED FEBRUARY 28, 2022 PREPARED BY TOCHER HEYBLOM DESIGN INC.
6. ROOTS TO BE PRUNED ARE TO BE EXPOSED BY USE OF HAND DIGGING WITH EXTREME CARE ONLY. NO USE OF MACHINERY OR HEAVY EQUIPMENT TO EXCAVATE IS PERMITTED WITHIN TREE PROTECTION ZONES. ROOTS ARE TO BE PRUNED AS FOLLOWS:
 - 6.1. HAND DIGGING IS TO BE DONE TO THE DEPTH SPECIFIED FOR EACH SPECIFIC TREE AS NOTED PRIOR IN THE PLANS. EXPOSED ROOTS ARE NOT PERMITTED TO DRY OUT DURING CONSTRUCTION ACTIVITY AND MUST BE IMMEDIATELY COVERED IN PARENT MATERIAL/EXISTING SOIL TO PREVENT DESICCATION. IF THE TREE IS SUBJECTED TO DROUGHT CONDITIONS DURING CONSTRUCTION, THE ROOT ZONE WITHIN THE TREE PROTECTION ZONE SHALL BE THOROUGHLY WATERED TO MAINTAIN AN APPROPRIATE MOISTURE LEVEL.
 - 6.2. THE ATTENDING ARBORIST IN THE FIELD MUST APPROVE ROOTS OF SIGNIFICANT SIZE IN DIAMETER OR NUMBER FOR ROOT PRUNING IN AGREEMENT WITH THE CITY OF TORONTO REPRESENTATIVE. ROOTS ENCOUNTERED LARGER THAN SCM IN DIAMETER ARE TO BE LEFT INTACT AND UNDAUNAGED (NOTABLY - BUTTRESS AND ANCHORAGE ROOTS) UNLESS APPROVED AS PREVIOUSLY NOTED.
 - 6.3. EXPOSED ROOTS APPROVED TO BE SEVERED WILL BE CLEANLY PRUNED FLUSH TO THE SOIL SURFACE BY THE ATTENDING ARBORIST ACCORDING TO PROPER ARBORICULTURE STANDARDS, HOWEVER.
 - 6.4. IF THE EXTENT OF INJURY IS DEEMED UNACCEPTABLE BY THE ATTENDING ARBORIST OR THE CITY OF TORONTO URBAN FORESTRY REPRESENTATIVE, OR WILL COMPROMISE THE STRUCTURAL STABILITY OF THE TREE, THESE ROOTS WILL NOT BE PRUNED AND INSTEAD EITHER:
 - 6.4.1. REMOVAL PERMITS WILL BE OBTAINED PRIOR TO PROCEEDING WITH CONSTRUCTION ACTIVITIES; OR
 - 6.4.2. THE DESIGN TEAM WILL ADJUST THE DESIGN TO ACCOMMODATE THE DISCOVERED ROOTS. IN THIS INSTANCE, THE ROOTS ARE NOT TO BE LEFT TO DRY OUT AND ARE TO BE MOISTENED AND IMMEDIATELY COVERED WITH PARENT MATERIAL ON SITE.

6 TREE PROTECTION HOARDING
 L8.0

ONLY THE USE OF HAND TOOLS PERMITTED WITHIN TPZ. TREE PROTECTION HOARDING MAY BE TEMPORARILY REMOVED TO COMPLETE WORK THEN TO BE REINSTATED IMMEDIATELY

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TREE INVENTORY - PRESERVATION, INJURY & REMOVALS

#	Scientific Name	Common Name	Location	DBH (cm)	Crown Diameter (m)	Height (m)	Condition Rating	Structural & Biological Condition Notes	Native Status	Tree Action	Minimum Protection Distance
1	<i>Fraxinus</i> sp.	Ash	south slope	22	6	7.5	Poor	bark necrosis, evidence of EAB	native genus	Remove	NA
2	<i>Gleditsia triacanthos</i>	Honey Locust	south slope	29	6	9	Good	uneven canopy due to hydro line pruning	native to North America	Preserve	1.8
3	<i>Fraxinus</i> sp.	Ash	street tree	37.5	11	10	Good		native to North America	Injure	2.4
4	<i>Fraxinus</i> sp.	Ash	south slope	27.5	5	10	Fair-Poor	bark necrosis, evidence of EAB	native genus	Remove	NA
5	<i>Fraxinus</i> sp.	Ash	south slope	26.5	6	9	Fair-Poor	bark necrosis, evidence of EAB	native genus	Remove	NA
6	<i>Acer ginnolo</i>	Amur Maple	street tree	6	2	2.5	Good		not native	Preserve	1.2
7	<i>Gleditsia triacanthos</i>	Honey Locust	south slope	29	6	8.5	Good		native to North America	Preserve	1.8
8	<i>Gleditsia triacanthos</i>	Honey Locust	street tree	40	10	9	Good	uneven canopy due to hydro line pruning	native to North America	Injure	3
9	<i>Fraxinus</i> sp.	Ash	south slope	12	4	7.5	Fair	no evidence of EAB	native genus	Preserve	1.8
10	<i>Fraxinus</i> sp.	Ash	south slope	28	6	9.5	Fair	no evidence of EAB	native genus	Preserve	1.8
11	<i>Gleditsia triacanthos</i>	Honey Locust	street tree	38.5	10	11	Good	uneven canopy due to hydro line pruning	native to North America	Preserve	2.4
12	<i>Pinus nigra</i>	Austrian Pine	south west corner	35	7	10	Good		not native	Injure	2.4
13	<i>Pinus nigra</i>	Austrian Pine	south west corner	34	6.5	12	Good		not native	Injure	2.4
14	<i>Pinus nigra</i>	Austrian Pine	south west corner	33	6	11	Good		not native	Injure	2.4
15	<i>Pinus nigra</i>	Austrian Pine	south west corner	31	5.5	11	Good		not native	Injure	2.4
16	<i>Pinus nigra</i>	Austrian Pine	south west corner	24	6	10	Good		not native	Preserve	1.8
17	<i>Pinus nigra</i>	Austrian Pine	west slope	33.5	5	11	Good		not native	Injure	2.4
18	<i>Malus</i> sp.	Crabapple	west slope	12.5	3	4	Fair	basal sprouting, poor form	not native	Remove	NA
19	<i>Pinus nigra</i>	Austrian Pine	west slope	37	5	12	Good	crown has been raised considerably	not native	Injure	2.4
20	<i>Picea pungens</i>	Blue Spruce	south west corner	>10	1	2	Good		native to North America	Remove	NA
21	<i>Taxus canadensis</i>	Hemlock	south west corner	>10	1	4	Fair	thin crown	native	Remove	NA
22	<i>Taxus canadensis</i>	Hemlock	south west corner	>10	1	3	Fair	thin crown	native	Remove	NA
23	<i>Taxus canadensis</i>	Hemlock	south west corner	>10	1	2	Fair	thin crown	native	Remove	NA
24	<i>Picea pungens</i>	Blue Spruce	south west corner	>10	1	3	Good		native to North America	Remove	NA
25	<i>Acer negundo</i>	Manitoba Maple	west slope	3.3,3.2	3	3.5	Fair	shrubby-like form, no central leader	native invasive	Remove	NA
26	<i>Betula papyrifera</i>	Paper Birch	west slope	3.5	1	2	Good		native	Remove	NA
27	<i>Morus alba</i>	White Mulberry	west slope	19,12.5	4	8	Good		not native	Remove	NA
28	<i>Cotoneaster</i> sp.	Hawthorn	west slope	4.6, 6	3	3	Fair		native genus	Remove	NA
29	<i>Malus</i> sp.	Crabapple	west slope	43	6	6	Fair-Poor	large cavity, dead wood on trunk, basal sprouts and water sprouts	not native	Remove	NA
30	<i>Gleditsia triacanthos</i>	Honey Locust	west slope	7	2	3.5	Fair	damaged leader	native to North America	Remove	NA
31	<i>Malus</i> sp.	Crabapple	west slope	23.30	6	6	Fair-Poor	large cavity, dead wood on trunk, die back of main limb, basal sprouts and water sprouts	not native	Remove	NA
32	<i>Gleditsia triacanthos</i>	Honey Locust	west slope	10	4	6	Good		native to North America	Preserve	1.8
33	<i>Gleditsia triacanthos</i>	Honey Locust	west slope	6	3	4.5	Good		native to North America	Preserve	1.2

01 ISSUED FOR TENDER 2022 04 21
 NO. REVISIONS DATE

CLIENT: TORONTO DISTRICT SCHOOL BOARD

PROJECT: ALLENBY JPS SLOPE STABILIZATION

TREE PROTECTION PLAN

PROJECT NO: 21005
 SCALE: 1:200
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022

CLIENT: TDSB
 TEAM:
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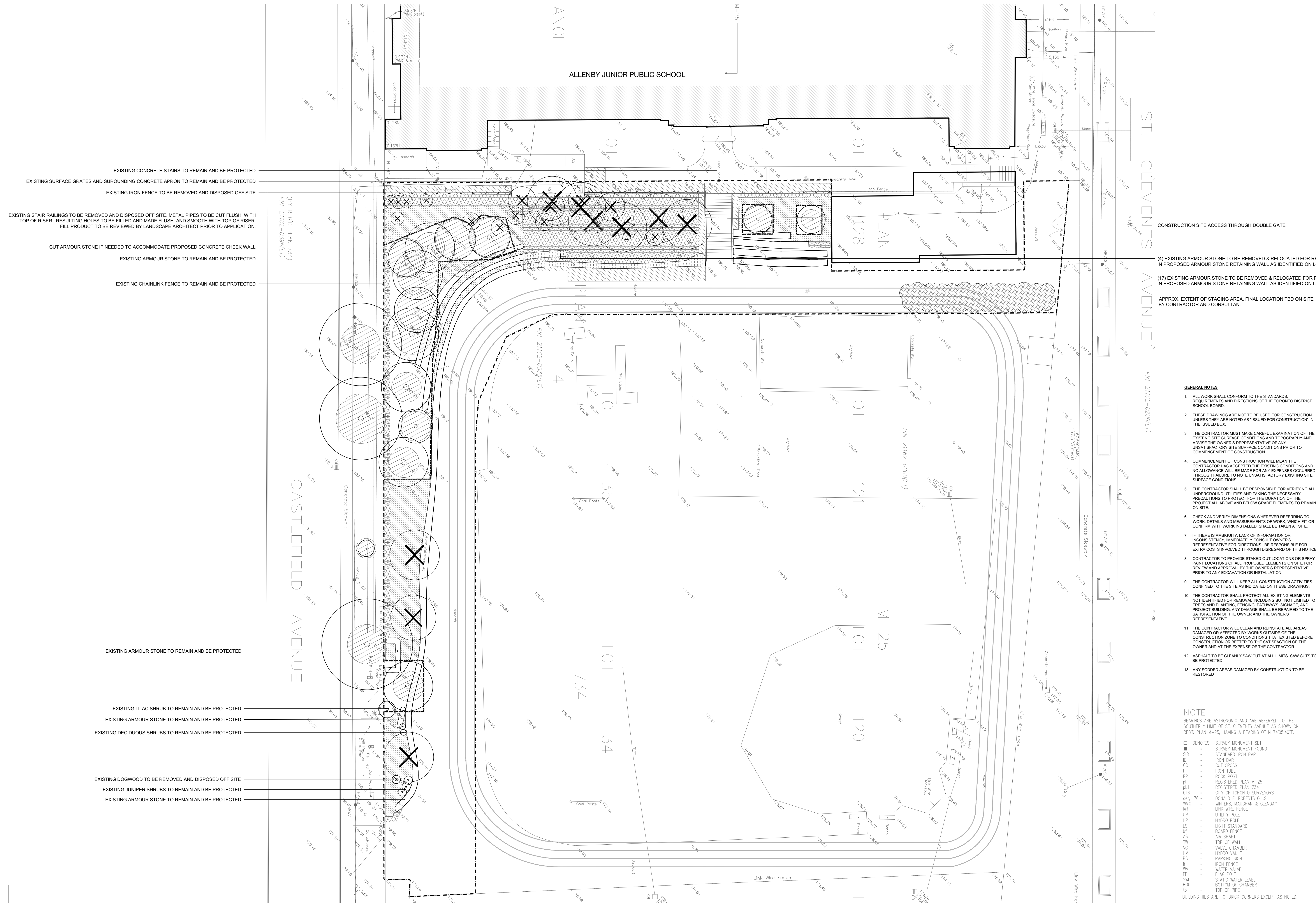
- LEGEND**
- TREE PROTECTION ZONE (TPZ)
 - AREA OF REMOVAL & RELOCATION - EXISTING ARMOUR STONE TO BE REMOVED AND RELOCATED ON SITE
 - AREA OF CLEARING AND GRUBBING - REMOVAL OF SOIL AND WEED PATCHES TO PREPARE SOIL FOR SHRUB PLANTING
 - AREA OF CLEARING AND GRUBBING - REMOVAL OF TOPSOIL IN PREPARATION OF LANDSCAPE INSTALLATION (ARMOUR STONE, CONCRETE ASPHALT & TURF/RUBBER PLAYGROUND SURFACE)
 - AREA OF LANDSCAPE REMOVAL - REMOVAL OF EXISTING CONCRETE & ASPHALT FOR PREPARATION FOR GRADING AND NEW ASPHALT INSTALLATION
 - TREE HOARDING (PER CITY OF TORONTO TP-1)
 - APPROX. EXTENT OF SITE PROTECTION FENCE
 - APPROX. EXTENT OF STAGING AREA
 - EXISTING CHAINLINK FENCE
 - EXISTING STAIR RAILING
 - EXISTING IRON FENCE

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ALLENBY JPS SLOPE STABILIZATION
SITE PREPARATION AND REMOVALS PLAN

PROJECT NO: 21005
 SCALE: 1:200
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022



- EXISTING CONCRETE STAIRS TO REMAIN AND BE PROTECTED
- EXISTING SURFACE GRATES AND SURROUNDING CONCRETE APRON TO REMAIN AND BE PROTECTED
- EXISTING IRON FENCE TO BE REMOVED AND DISPOSED OFF SITE
- EXISTING STAIR RAILINGS TO BE REMOVED AND DISPOSED OFF SITE. METAL PIPES TO BE CUT FLUSH WITH TOP OF RISER. RESULTING HOLES TO BE FILLED AND MADE FLUSH AND SMOOTH WITH TOP OF RISER. FILL PRODUCT TO BE REVIEWED BY LANDSCAPE ARCHITECT PRIOR TO APPLICATION.
- CUT ARMOUR STONE IF NEEDED TO ACCOMMODATE PROPOSED CONCRETE CHEEK WALL
- EXISTING ARMOUR STONE TO REMAIN AND BE PROTECTED
- EXISTING CHAINLINK FENCE TO REMAIN AND BE PROTECTED
- EXISTING ARMOUR STONE TO REMAIN AND BE PROTECTED
- EXISTING LILAC SHRUB TO REMAIN AND BE PROTECTED
- EXISTING ARMOUR STONE TO REMAIN AND BE PROTECTED
- EXISTING DECIDUOUS SHRUBS TO REMAIN AND BE PROTECTED
- EXISTING DOGWOOD TO BE REMOVED AND DISPOSED OFF SITE
- EXISTING JUNIPER SHRUBS TO REMAIN AND BE PROTECTED
- EXISTING ARMOUR STONE TO REMAIN AND BE PROTECTED

(BY REGD PLAN 734
 P.N. 21162-0396(L7))

CASTLEFIELD AVENUE

EXISTING DOGWOOD TO BE REMOVED AND DISPOSED OFF SITE

EXISTING JUNIPER SHRUBS TO REMAIN AND BE PROTECTED

EXISTING ARMOUR STONE TO REMAIN AND BE PROTECTED

CONSTRUCTION SITE ACCESS THROUGH DOUBLE GATE

(4) EXISTING ARMOUR STONE TO BE REMOVED & RELOCATED FOR REUSE IN PROPOSED STONE RETAINING WALL AS IDENTIFIED ON L4.0

(17) EXISTING ARMOUR STONE TO BE REMOVED & RELOCATED FOR REUSE IN PROPOSED ARMOUR STONE RETAINING WALL AS IDENTIFIED ON L4.0

APPROX. EXTENT OF STAGING AREA. FINAL LOCATION TBD ON SITE BY CONTRACTOR AND CONSULTANT.

- NOTE**
- BEARINGS ARE ASTROMONIC AND ARE REFERRED TO THE SOUTHERLY LIMIT OF ST. CLEMENTS AVENUE AS SHOWN ON REGD PLAN M-25, HAVING A BEARING OF N 74°05'40"E.
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 - CC CUT CROSS
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 - RP ROCK PILE
 - pL1 REGISTERED PLAN M-25
 - pL1 REGISTERED PLAN 734
 - CTS CITY OF TORONTO SURVEYORS
 - der,1176 DONALD E. ROBERTS & G.L.S.
 - WMG WINTERS, MAUGHAN & GLENDAY
 - wt LINK WIRE FENCE
 - UP UTILITY POLE
 - HP HYDRO POLE
 - LS LIGHT STANDARD
 - bf BOARD FENCE
 - AS AIR SHAFT
 - TW TOP OF WALL
 - VC VALVE CHAMBER
 - HV HYDRO VAULT
 - PS PARKING SIGN
 - IF IRON FENCE
 - WV WATER VALVE
 - FP FLAG POLE
 - SWL STATIC WATER LEVEL
 - BOC BOTTOM OF CHAMBER
 - tp TOP OF PIPE
- BUILDING TIES ARE TO BRICK CORNERS EXCEPT AS NOTED.

LEGEND

- PROPOSED DECIDUOUS TREE
- EXISTING TREE TO REMAIN AND PROTECT
- EXISTING SHRUB TO REMAIN
- ARTIFICIAL TURF
- RUBBER EDGE CURB
- SHRUB PLANTING
- CIP CONCRETE RETAINING WALL
- CIP CONCRETE PAVING
- FIBRE WEAVE CEDAR MULCH
- MEDIUM DUTY ASPHALT PAVING
- LOG BENCH
- FALLEN LOG
- WOOD DECK
- WOOD STEPPING ROUNDS
- METAL FENCE
- METAL HAND RAILING

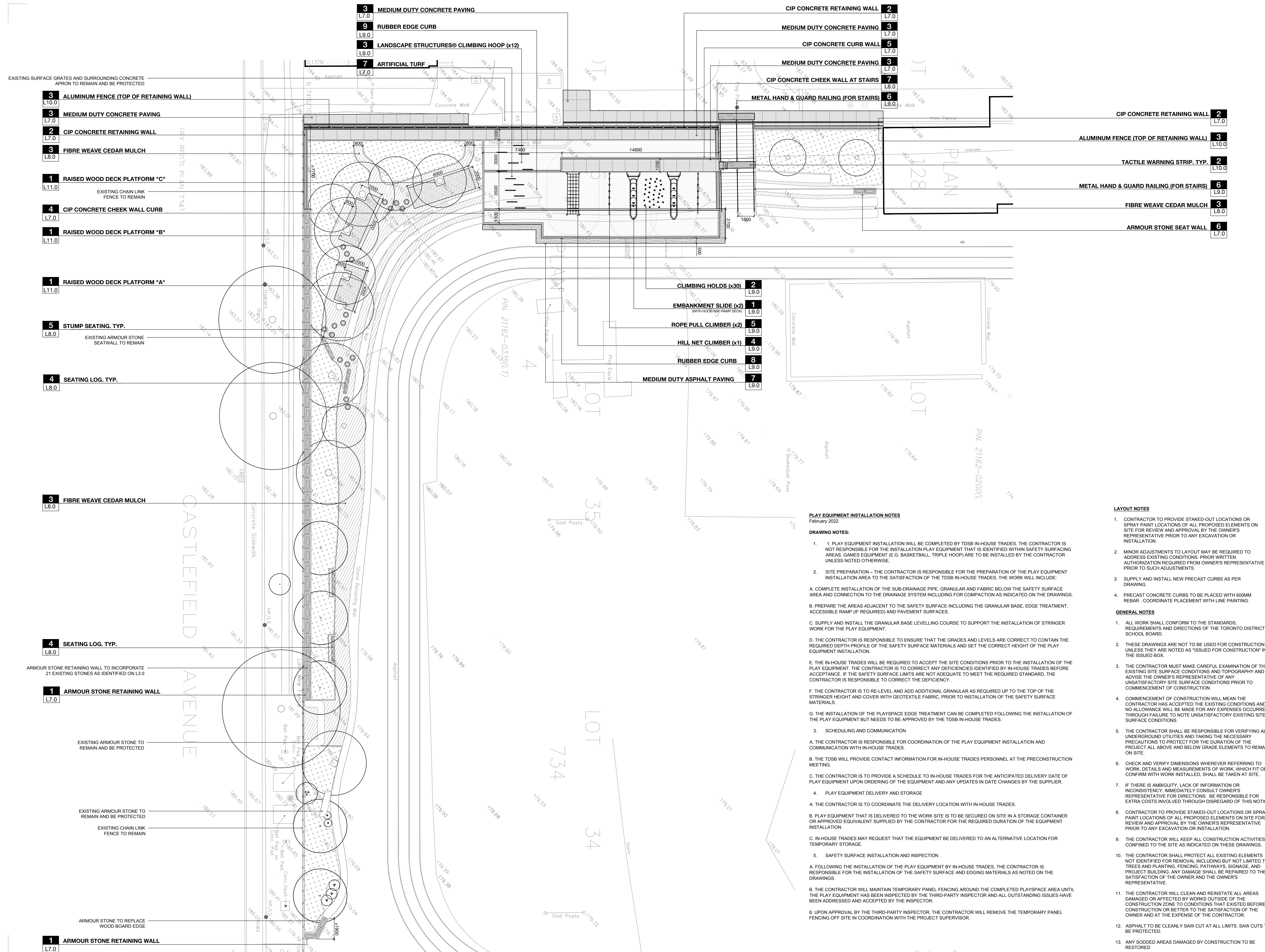
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TORONTO DISTRICT SCHOOL BOARD

ALLENBY JPS SLOPE STABILIZATION

LAYOUT PLAN

PROJECT:
 PROJECT NO: 21005
 SCALE: 1:150
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022



PLAY EQUIPMENT INSTALLATION NOTES
 February 2022

- DRAWING NOTES:**
1. PLAY EQUIPMENT INSTALLATION WILL BE COMPLETED BY TDSB IN-HOUSE TRADES. THE CONTRACTOR IS NOT RESPONSIBLE FOR THE INSTALLATION OF PLAY EQUIPMENT THAT IS IDENTIFIED WITHIN SAFETY SURFACING AREAS. GAMES EQUIPMENT (E.G. BASKETBALL, TRIPLE HOOP) ARE TO BE INSTALLED BY THE CONTRACTOR UNLESS NOTED OTHERWISE.
 2. SITE PREPARATION - THE CONTRACTOR IS RESPONSIBLE FOR THE PREPARATION OF THE PLAY EQUIPMENT INSTALLATION AREA TO THE SATISFACTION OF THE TDSB IN-HOUSE TRADES. THE WORK WILL INCLUDE:
 - A. COMPLETE INSTALLATION OF THE SUB-DRAINAGE PIPE, GRANULAR AND FABRIC BELOW THE SAFETY SURFACE AREA AND CONNECTION TO THE DRAINAGE SYSTEM INCLUDING FOR COMPACTION AS INDICATED ON THE DRAWINGS.
 - B. PREPARE THE AREAS ADJACENT TO THE SAFETY SURFACE INCLUDING THE GRANULAR BASE, EDGE TREATMENT, ACCESSIBLE RAMP (IF REQUIRED) AND PAVEMENT SURFACES.
 - C. SUPPLY AND INSTALL THE GRANULAR BASE LEVELLING COURSE TO SUPPORT THE INSTALLATION OF STRINGER WORK FOR THE PLAY EQUIPMENT.
 - D. THE CONTRACTOR IS RESPONSIBLE TO ENSURE THAT THE GRADES AND LEVELS ARE CORRECT TO CONTAIN THE REQUIRED DEPTH PROFILE OF THE SAFETY SURFACE MATERIALS AND SET THE CORRECT HEIGHT OF THE PLAY EQUIPMENT INSTALLATION.
 - E. THE IN-HOUSE TRADES WILL BE REQUIRED TO ACCEPT THE SITE CONDITIONS PRIOR TO THE INSTALLATION OF THE PLAY EQUIPMENT. THE CONTRACTOR IS TO CORRECT ANY DEFICIENCIES IDENTIFIED BY IN-HOUSE TRADES BEFORE ACCEPTANCE. IF THE SAFETY SURFACE LIMITS ARE NOT ADEQUATE TO MEET THE REQUIRED STANDARD, THE CONTRACTOR IS RESPONSIBLE TO CORRECT THE DEFICIENCY.
 - F. THE CONTRACTOR IS TO RE-LEVEL AND ADD ADDITIONAL GRANULAR AS REQUIRED UP TO THE TOP OF THE STRINGER HEIGHT AND COVER WITH GEOTEXTILE FABRIC. PRIOR TO INSTALLATION OF THE SAFETY SURFACE MATERIALS.
 - G. THE INSTALLATION OF THE PLAYSPACE EDGE TREATMENT CAN BE COMPLETED FOLLOWING THE INSTALLATION OF THE PLAY EQUIPMENT BUT NEEDS TO BE APPROVED BY THE TDSB IN-HOUSE TRADES.
 3. SCHEDULING AND COMMUNICATION
 - A. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF THE PLAY EQUIPMENT INSTALLATION AND COMMUNICATION WITH IN-HOUSE TRADES.
 - B. THE TDSB WILL PROVIDE CONTACT INFORMATION FOR IN-HOUSE TRADES PERSONNEL AT THE PRECONSTRUCTION MEETING.
 - C. THE CONTRACTOR IS TO PROVIDE A SCHEDULE TO IN-HOUSE TRADES FOR THE ANTICIPATED DELIVERY DATE OF PLAY EQUIPMENT UPON ORDERING OF THE EQUIPMENT AND ANY UPDATES IN DATE CHANGES BY THE SUPPLIER.
 4. PLAY EQUIPMENT DELIVERY AND STORAGE
 - A. THE CONTRACTOR IS TO COORDINATE THE DELIVERY LOCATION WITH IN-HOUSE TRADES.
 - B. PLAY EQUIPMENT THAT IS DELIVERED TO THE WORK SITE IS TO BE SECURED ON SITE IN A STORAGE CONTAINER OR APPROVED EQUIVALENT SUPPLIED BY THE CONTRACTOR FOR THE REQUIRED DURATION OF THE EQUIPMENT INSTALLATION.
 - C. IN-HOUSE TRADES MAY REQUEST THAT THE EQUIPMENT BE DELIVERED TO AN ALTERNATIVE LOCATION FOR TEMPORARY STORAGE.
 5. SAFETY SURFACE INSTALLATION AND INSPECTION
 - A. FOLLOWING THE INSTALLATION OF THE PLAY EQUIPMENT BY IN-HOUSE TRADES, THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF THE SAFETY SURFACE AND EDGING MATERIALS AS NOTED ON THE DRAWINGS.
 - B. THE CONTRACTOR WILL MAINTAIN TEMPORARY PANEL FENCING AROUND THE COMPLETED PLAYSPACE AREA UNTIL THE PLAY EQUIPMENT HAS BEEN INSPECTED BY THE THIRD-PARTY INSPECTOR AND ALL OUTSTANDING ISSUES HAVE BEEN ADDRESSED AND ACCEPTED BY THE INSPECTOR.
 6. UPON APPROVAL BY THE THIRD-PARTY INSPECTOR, THE CONTRACTOR WILL REMOVE THE TEMPORARY PANEL FENCING OFF SITE IN COORDINATION WITH THE PROJECT SUPERVISOR.

CLIENT: TDSB
 TEAM:
 ARCHITECT:
 STRUCTURAL:
 MECHANICAL:
 CIVIL:
 ELECTRICAL:
 TRANSPORTATION:
 IRRIGATION:

GENERAL NOTES
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 4. DO NOT SCALE DRAWINGS.

LEGEND

- + 181.53 PROPOSED SPOT ELEVATION
- + 181.53 EXISTING SPOT ELEVATION
- + TW TOP OF WALL
- + BW BOTTOM OF WALL
- + TS TOP OF STAIR
- + BS BOTTOM OF STAIR
- 150mm Ø PERFORATED PVC PIPE
- 150mm Ø SOLID PVC PIPE
- TRENCH DRAIN
- TREE HOARDING (PER CITY OF TORONTO TP-1)
- RUBBER EDGE CURB
- SHRUB PLANTING
- CIP CONCRETE RETAINING WALL
- CIP CONCRETE PAVING
- FIBRE WEAVE CEDAR MULCH
- ▨ LOG BENCH
- ▨ FALLEN LOG
- ▨ WOOD DECK
- WOOD STEPPING ROUNDS
- METAL FENCE
- METAL HAND RAILING
- ▨ ARMOUR STONE

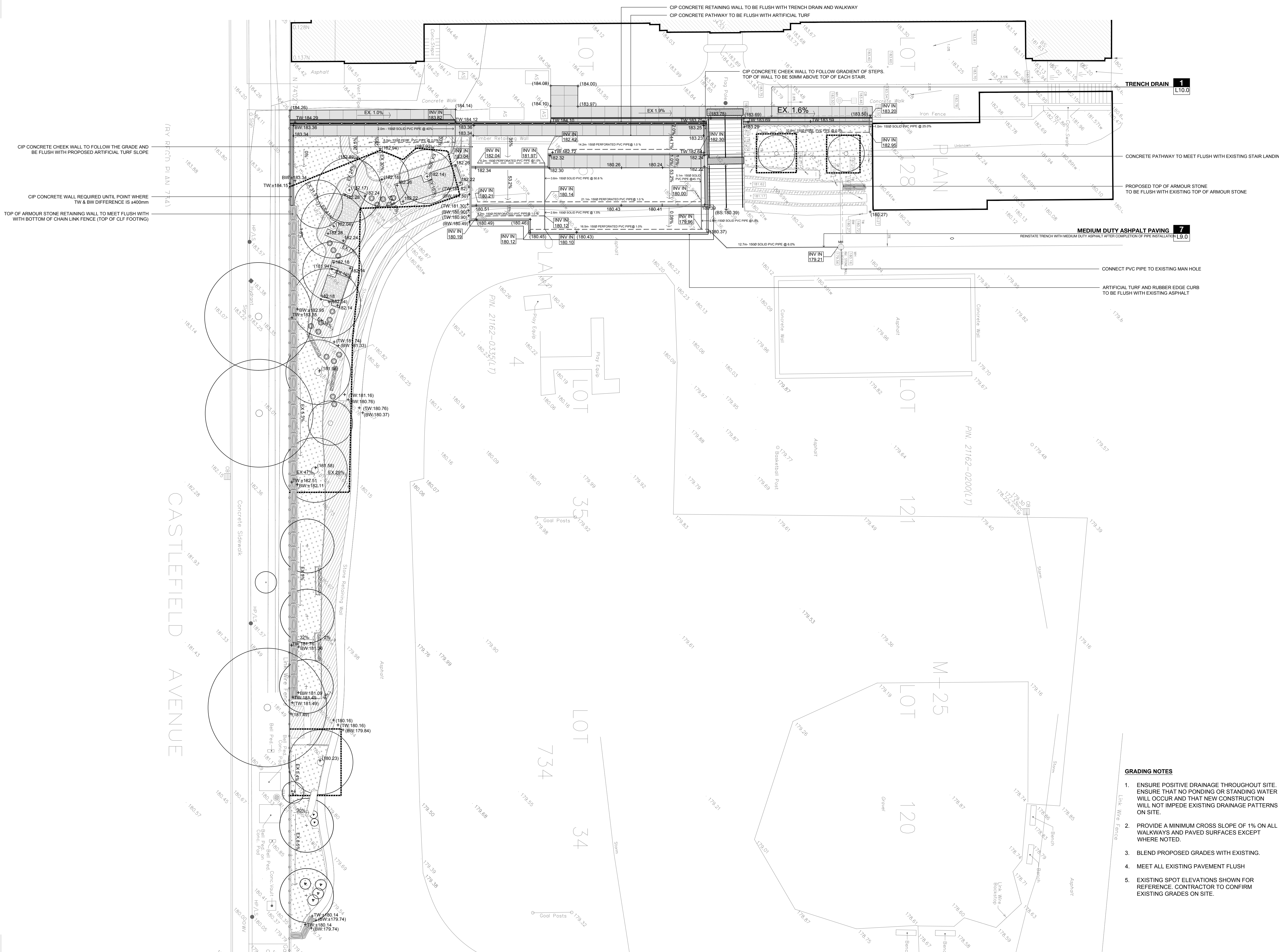
01 ISSUED FOR TENDER 2022 04 21
 NO. REVISIONS DATE

TORONTO DISTRICT SCHOOL BOARD

ALLENBY JPS SLOPE STABILIZATION

GRADING & SUBDRAINAGE PLAN

PROJECT NO: 21005
 SCALE: 1:150
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022



- GRADING NOTES**
1. ENSURE POSITIVE DRAINAGE THROUGHOUT SITE. ENSURE THAT NO PONDING OR STANDING WATER WILL OCCUR AND THAT NEW CONSTRUCTION WILL NOT IMPEDE EXISTING DRAINAGE PATTERNS ON SITE.
 2. PROVIDE A MINIMUM CROSS SLOPE OF 1% ON ALL WALKWAYS AND PAVED SURFACES EXCEPT WHERE NOTED.
 3. BLEND PROPOSED GRADES WITH EXISTING.
 4. MEET ALL EXISTING PAVEMENT FLUSH
 5. EXISTING SPOT ELEVATIONS SHOWN FOR REFERENCE. CONTRACTOR TO CONFIRM EXISTING GRADES ON SITE.

CIP CONCRETE CHEEK WALL TO FOLLOW THE GRADE AND BE FLUSH WITH PROPOSED ARTIFICIAL TURF SLOPE

CIP CONCRETE WALL REQUIRED UNTIL POINT WHERE TW & BW DIFFERENCE IS 400mm

TOP OF ARMOUR STONE RETAINING WALL TO MEET FLUSH WITH BOTTOM OF CHAIN LINK FENCE (TOP OF CLF FOOTING)

CIP CONCRETE RETAINING WALL TO BE FLUSH WITH TRENCH DRAIN AND WALKWAY
 CIP CONCRETE PATHWAY TO BE FLUSH WITH ARTIFICIAL TURF

CIP CONCRETE CHEEK WALL TO FOLLOW GRADIENT OF STEPS.
 TOP OF WALL TO BE 50MM ABOVE TOP OF EACH STAIR.

TRENCH DRAIN 1
 L10.0

CONCRETE PATHWAY TO MEET FLUSH WITH EXISTING STAIR LANDING

PROPOSED TOP OF ARMOUR STONE TO BE FLUSH WITH EXISTING TOP OF ARMOUR STONE

MEDIUM DUTY ASPHALT PAVING 7
 L9.0

CONNECT PVC PIPE TO EXISTING MAN HOLE

ARTIFICIAL TURF AND RUBBER EDGE CURB TO BE FLUSH WITH EXISTING ASPHALT

CASTLEFIELD AVENUE

(BY REFCH PLAN 71A)

PLAN 128

M-25

LOT 34

LOT 734

LOT 120

LOT 121

LOT 125

Pin: 21162-0335(LT)

Pin: 21162-0200(LT)

CASTLEFIELD AVENUE

(BY REFCH PLAN 71A)

PLAN 128

M-25

LOT 34

LOT 734

LOT 120

LOT 121

LOT 125

Pin: 21162-0335(LT)

Pin: 21162-0200(LT)

CLIENT: TDSB
 TEAM:
 ARCHITECT:
 STRUCTURAL:
 MECHANICAL:
 CIVIL:
 ELECTRICAL:
 TRANSPORTATION:
 IRRIGATION:

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LEGEND

- PROPOSED DECIDUOUS TREE
- EXISTING TREE TO REMAIN AND PROTECT
- EXISTING SHRUB TO REMAIN
- SHRUB GROUPING
- ARTIFICIAL TURF
- CIP CONCRETE RETAINING WALL
- CIP CONCRETE PAVING
- ENGINEERED WOOD FIBRE MULCH
- MILLED LOG BENCH
- FALLEN LOG
- WOOD DECK
- WOOD STEPPING ROUNDS
- 1.2M HT. METAL FENCE
- 1.2M HT. METAL RAILING
- ARMOUR STONE

01 ISSUED FOR TENDER 2022 04 21
 NO. REVISIONS DATE

CLIENT: **TORONTO DISTRICT SCHOOL BOARD**

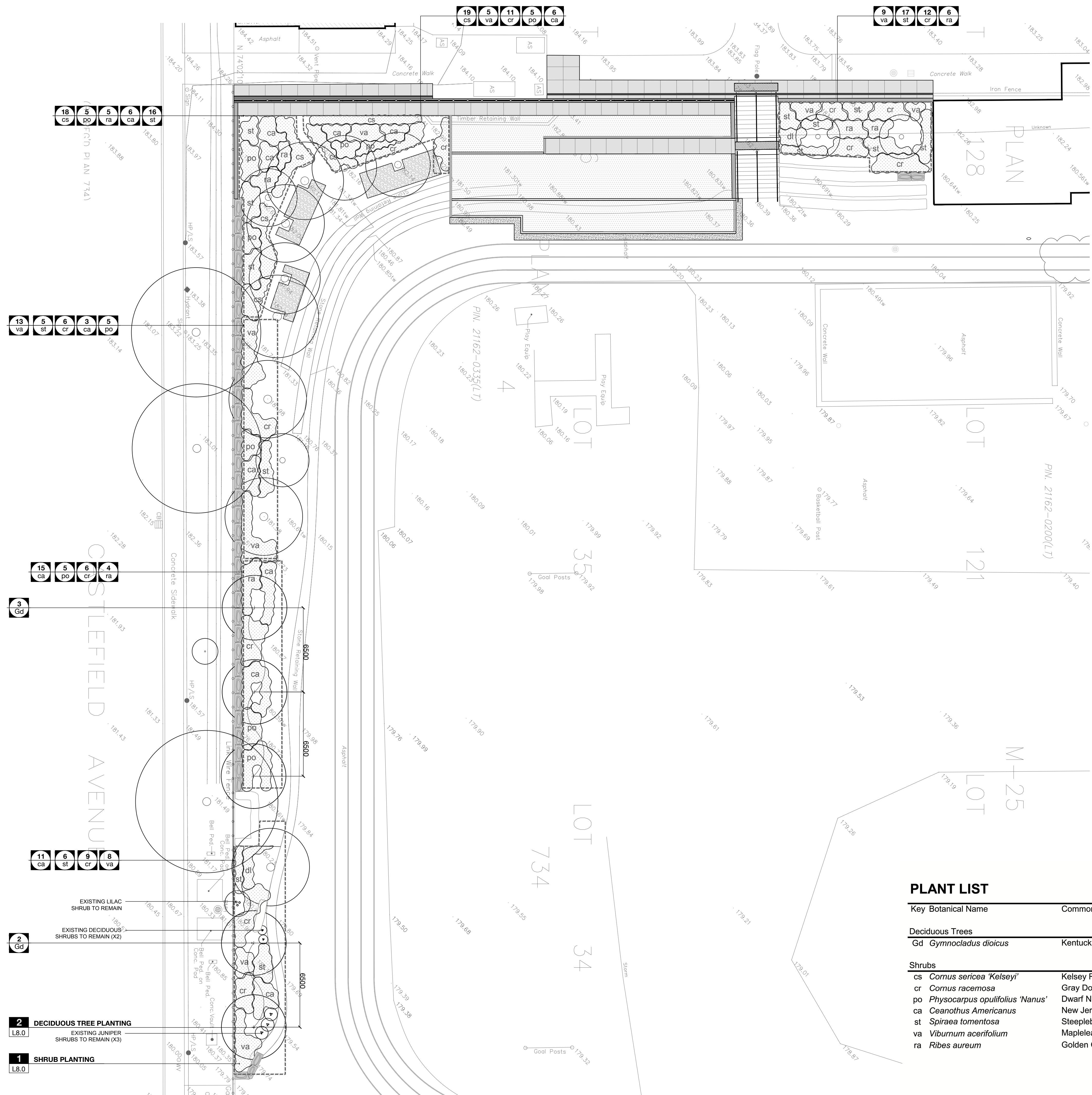
PROJECT: **ALLENBY JPS SLOPE STABILIZATION**

TITLE: **PLANTING PLAN**

PROJECT NO: 18014
 SCALE: 1:150
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022

DRAWING NO.

L6.0
 OF 10



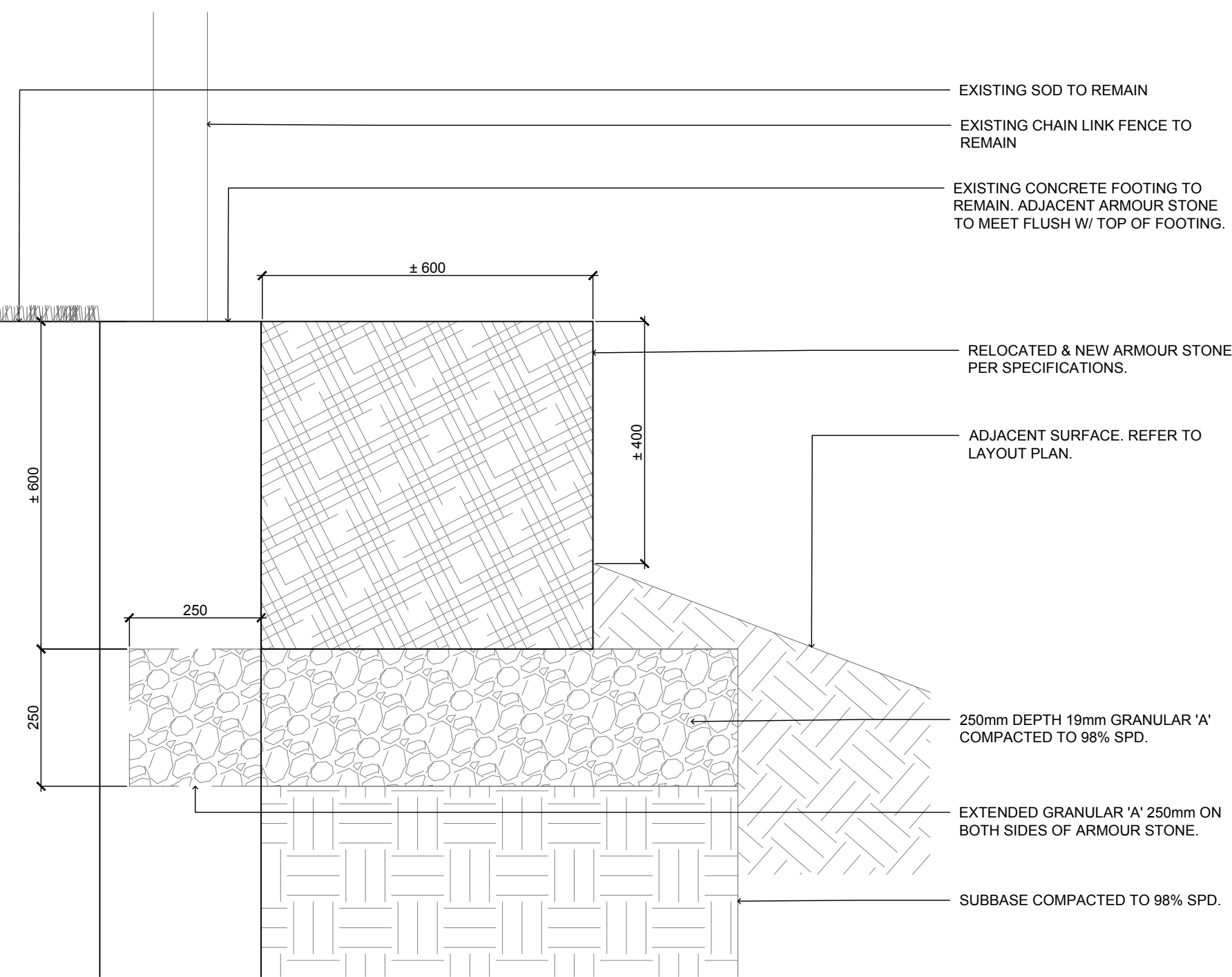
PLANT LIST

Key Botanical Name	Common Name	QTY	Size	Condition	Spacing (o.c)
Deciduous Trees					
Gd <i>Gymnocladus dioicus</i>	Kentucky coffeetree	5	75 mm	W.B.	Refer to Plan
Shrubs					
cs <i>Cornus sericea 'Kelsey'</i>	Kelsey Red Osier Dogwood	37	3 gal	pot	0.75 m
cr <i>Cornus racemosa</i>	Gray Dogwood	44	3 gal	pot	1 m
po <i>Physocarpus opulifolius 'Nanus'</i>	Dwarf Ninebark	20	3 gal	pot	0.75 m
ca <i>Ceanothus Americanus</i>	New Jersey Tea	41	3 gal	pot	0.75 m
st <i>Spiraea tomentosa</i>	Steeplebush	44	2 gal	pot	0.5 m
va <i>Viburnum acerifolium</i>	Mapleleaf Viburnum	29	3 gal	pot	0.75 m
ra <i>Ribes aureum</i>	Golden Current	15	3 gal	pot	0.75 m

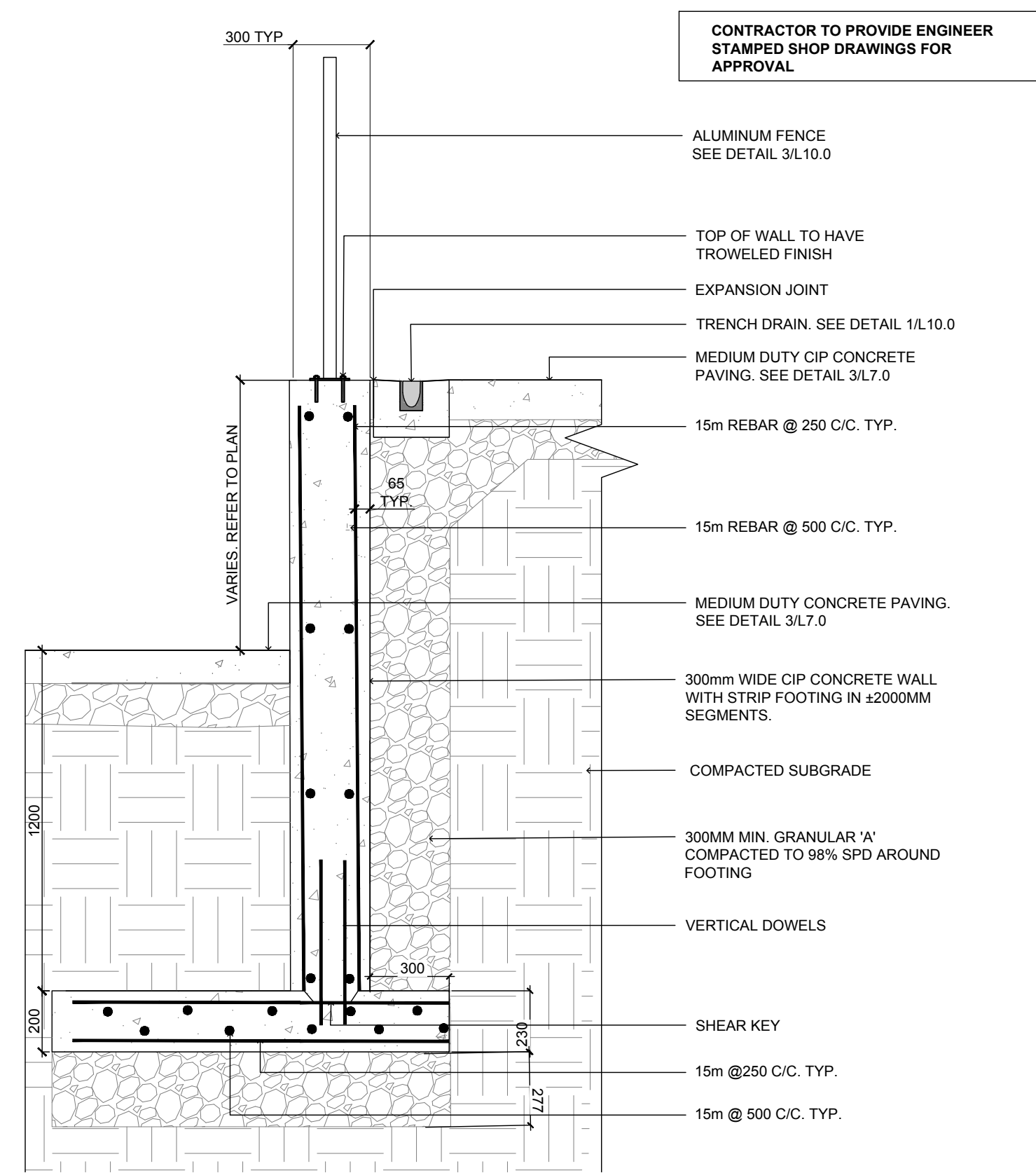
- 2** DECIDUOUS TREE PLANTING
 L8.0 EXISTING JUNIPER SHRUBS TO REMAIN (X3)
- 1** SHRUB PLANTING
 L8.0

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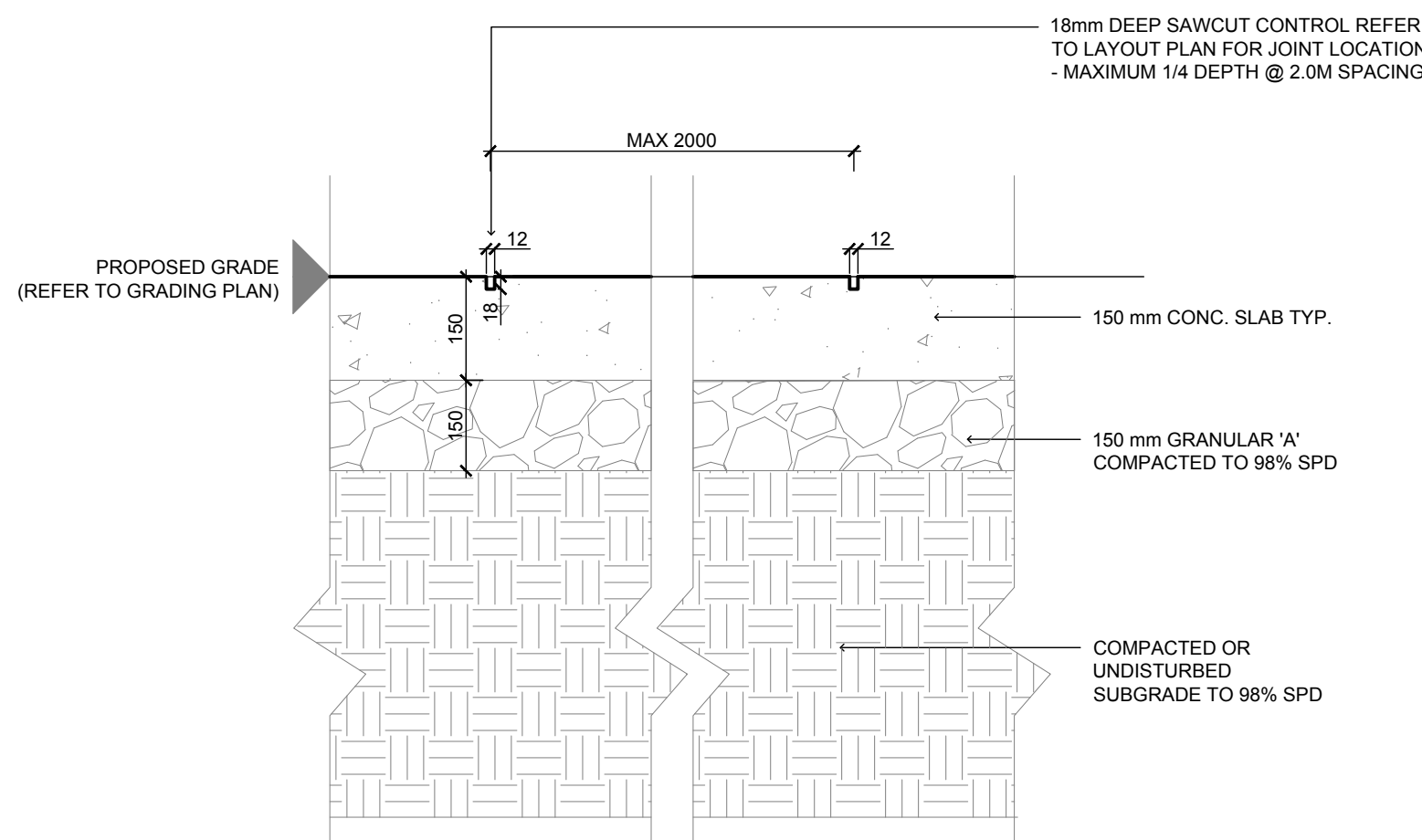
NOTE
 CONTRACTOR RESPONSIBLE TO PERFORM THEIR OWN TESTING OF THE EXISTING SUB-GRADE CONDITION FOR WHERE THE PROPOSED CONCRETE RETAINING WALL, CHEEK WALLS, AND CURB WALL WILL BE CONSTRUCTED.



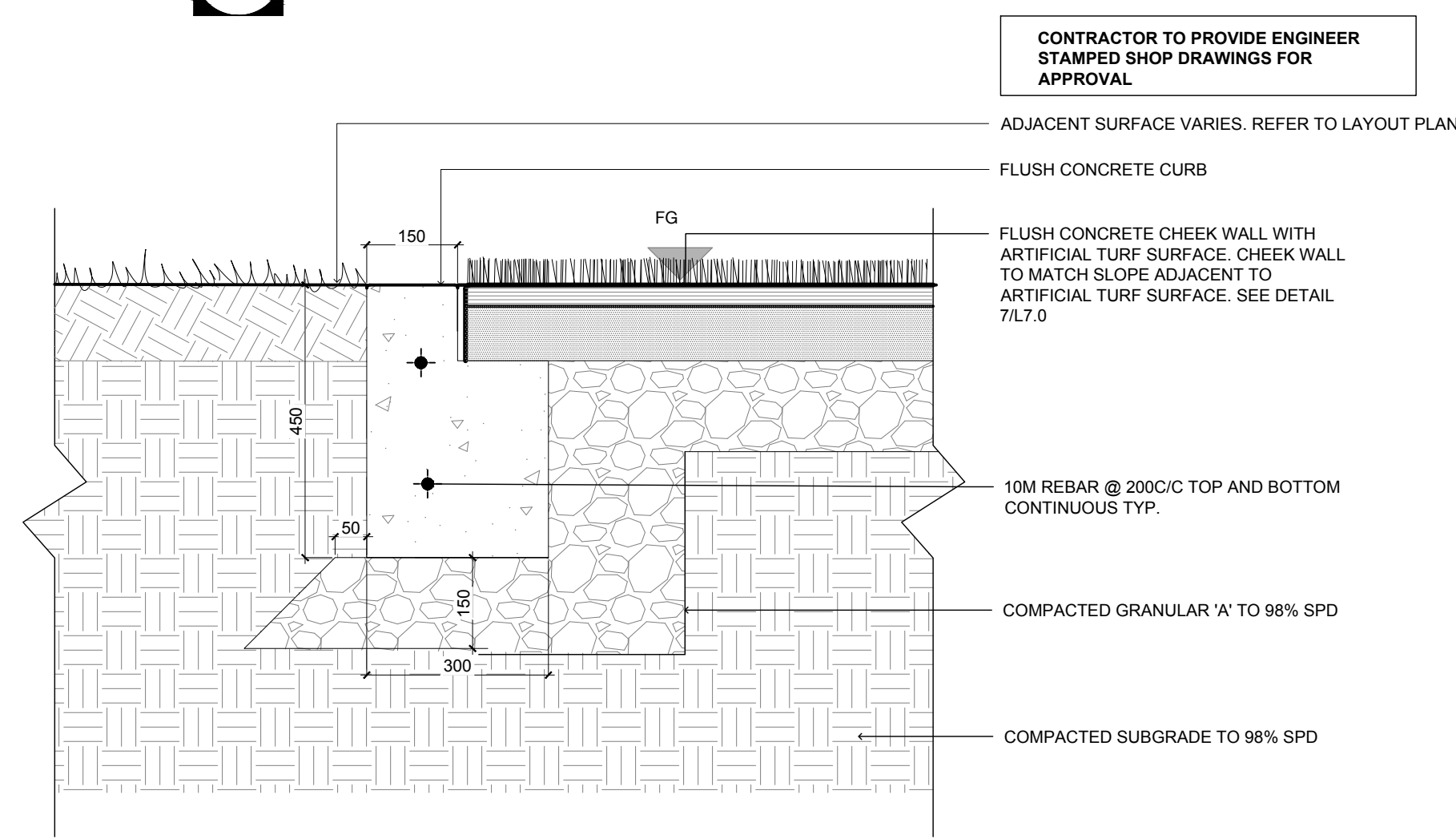
1 **ARMOUR STONE RETAINING WALL**
 L7.0 1:20



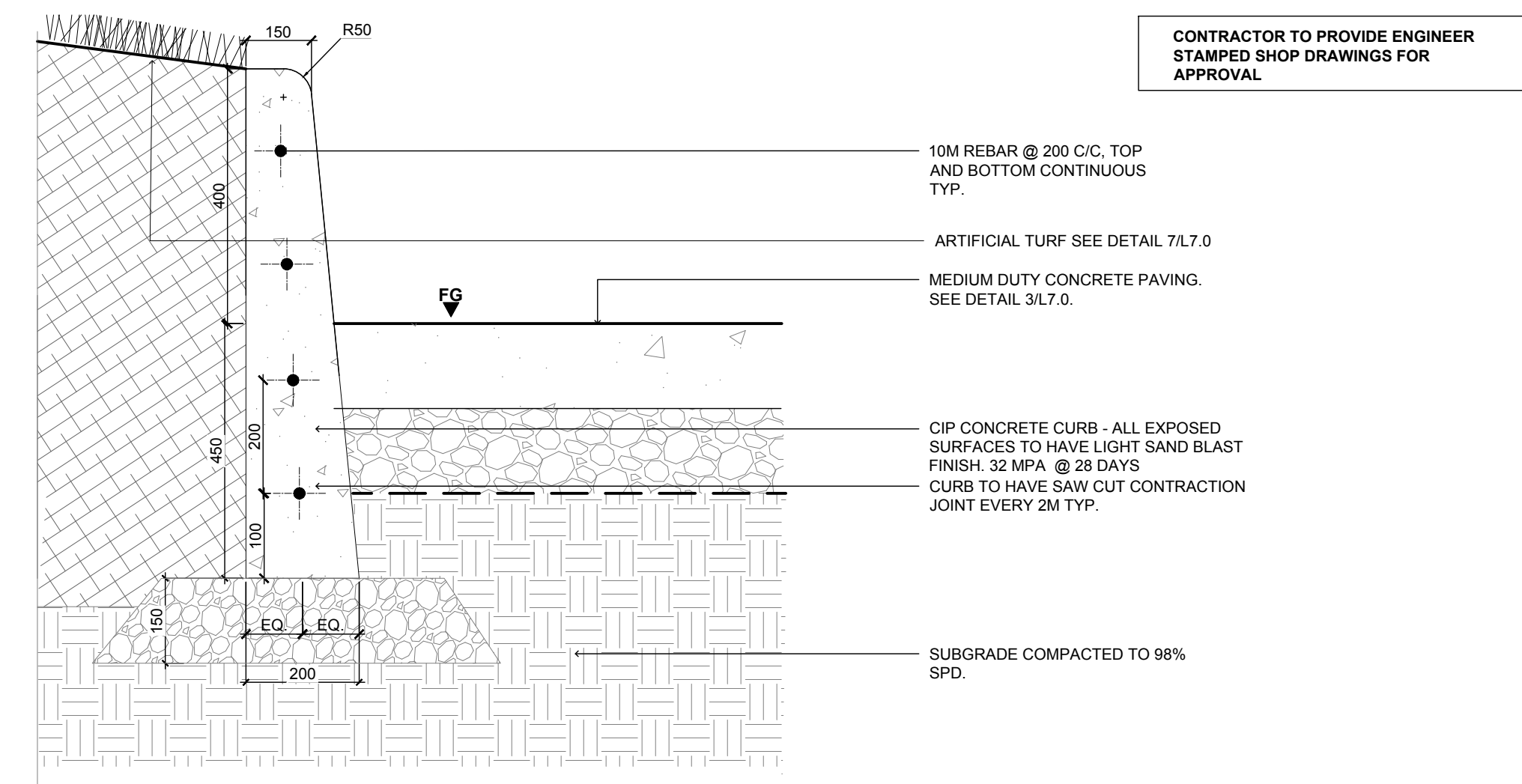
2 **CIP CONCRETE RETAINING WALL**
 L7.0 1:20



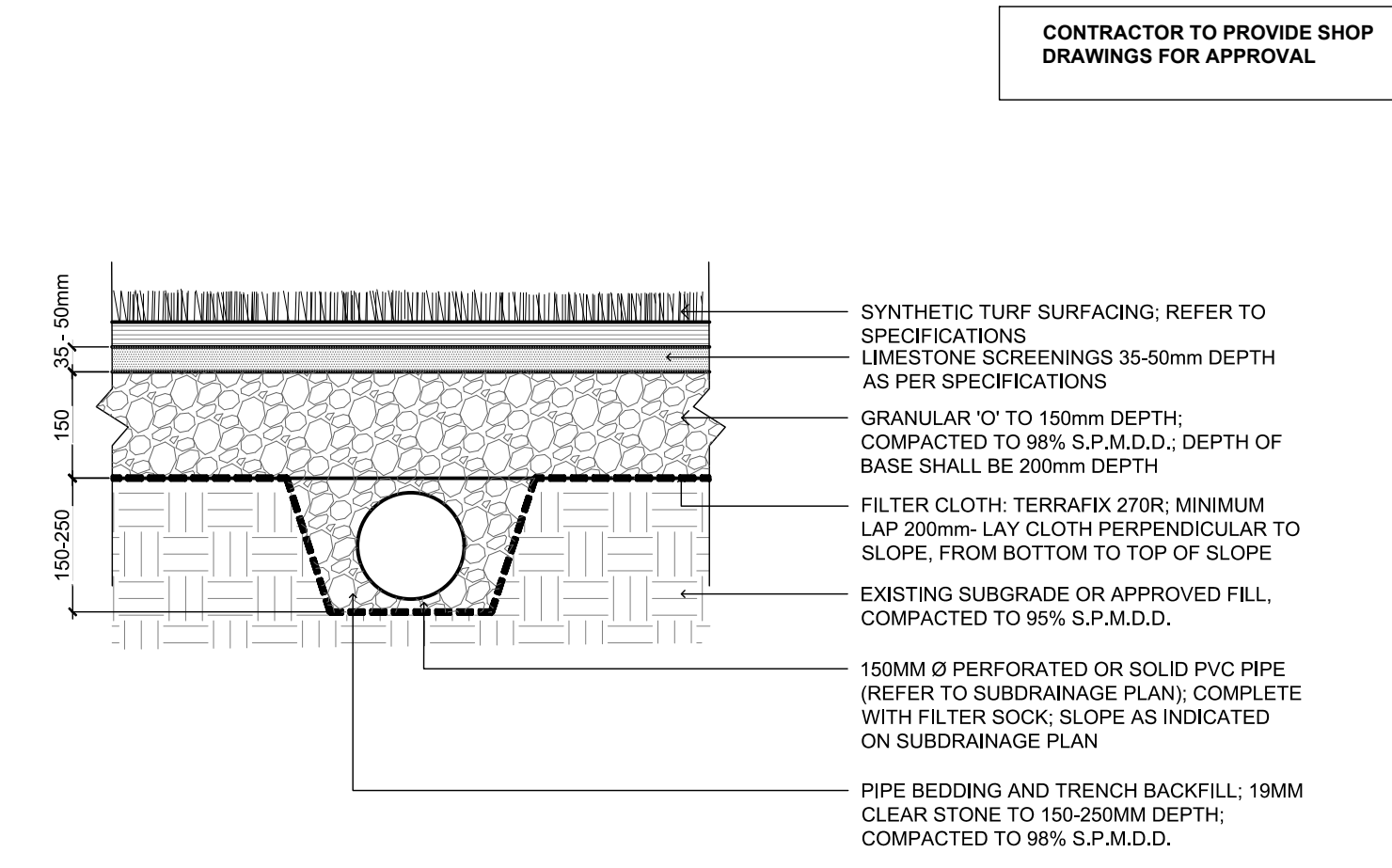
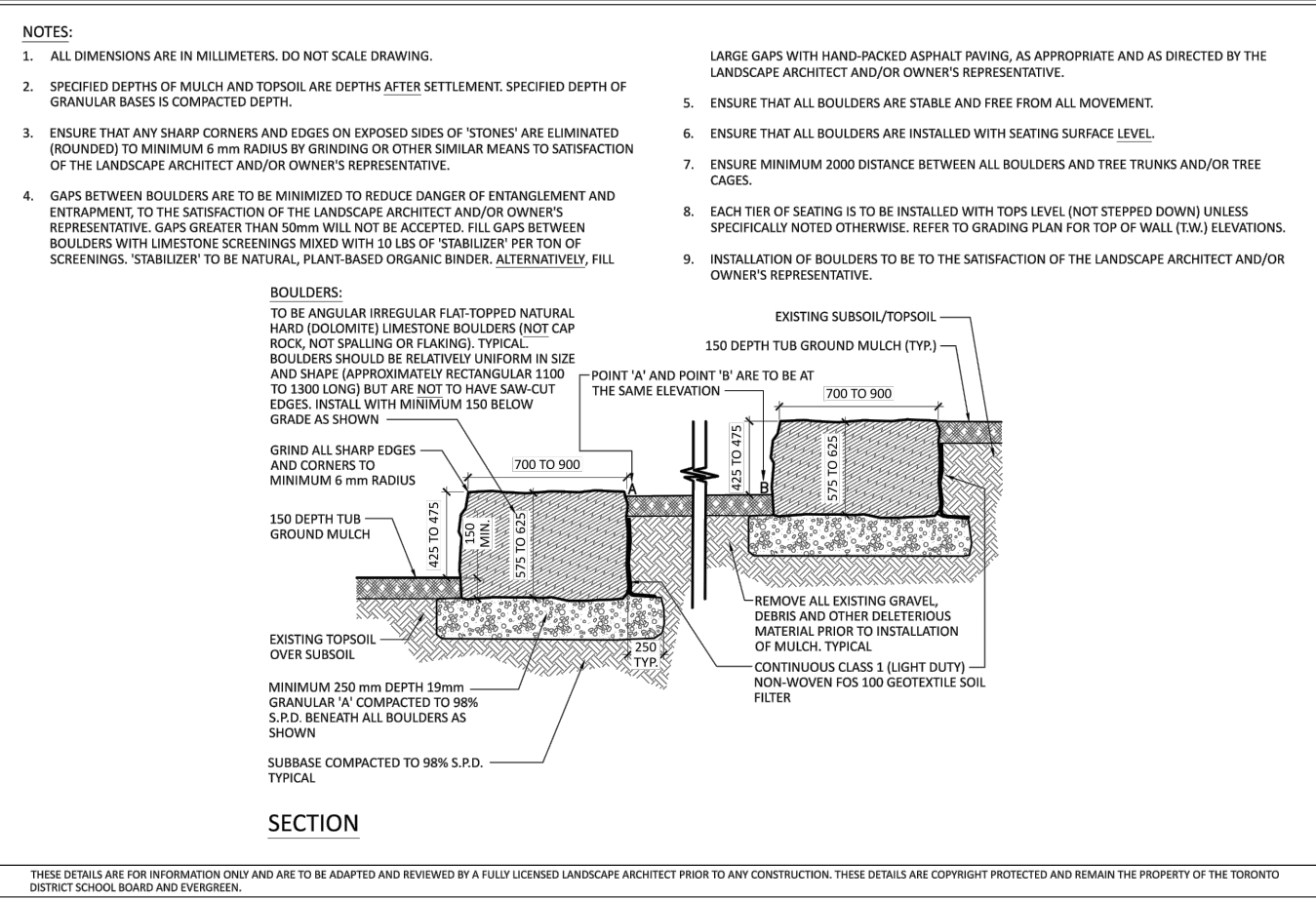
3 **MEDIUM DUTY CONCRETE PAVING**
 L7.0 1:10



4 **CIP CONCRETE CHEEK WALL CURB**
 L7.0 1:10



5 **CIP CONCRETE CURB WALL**
 L7.0 N.T.S.



7 **ARTIFICIAL TURF**
 L7.0 1:10

6 **ARMOUR STONE SEAT WALL**
 L7.0 N.T.S.

07		
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01	ISSUED FOR TENDER	2022-04-21
NO.	REVISIONS	DATE

CLIENT:
TORONTO DISTRICT SCHOOL BOARD

PROJECT:
ALLENBY JSP SLOPE STABILIZATION

TITLE:
DETAILS

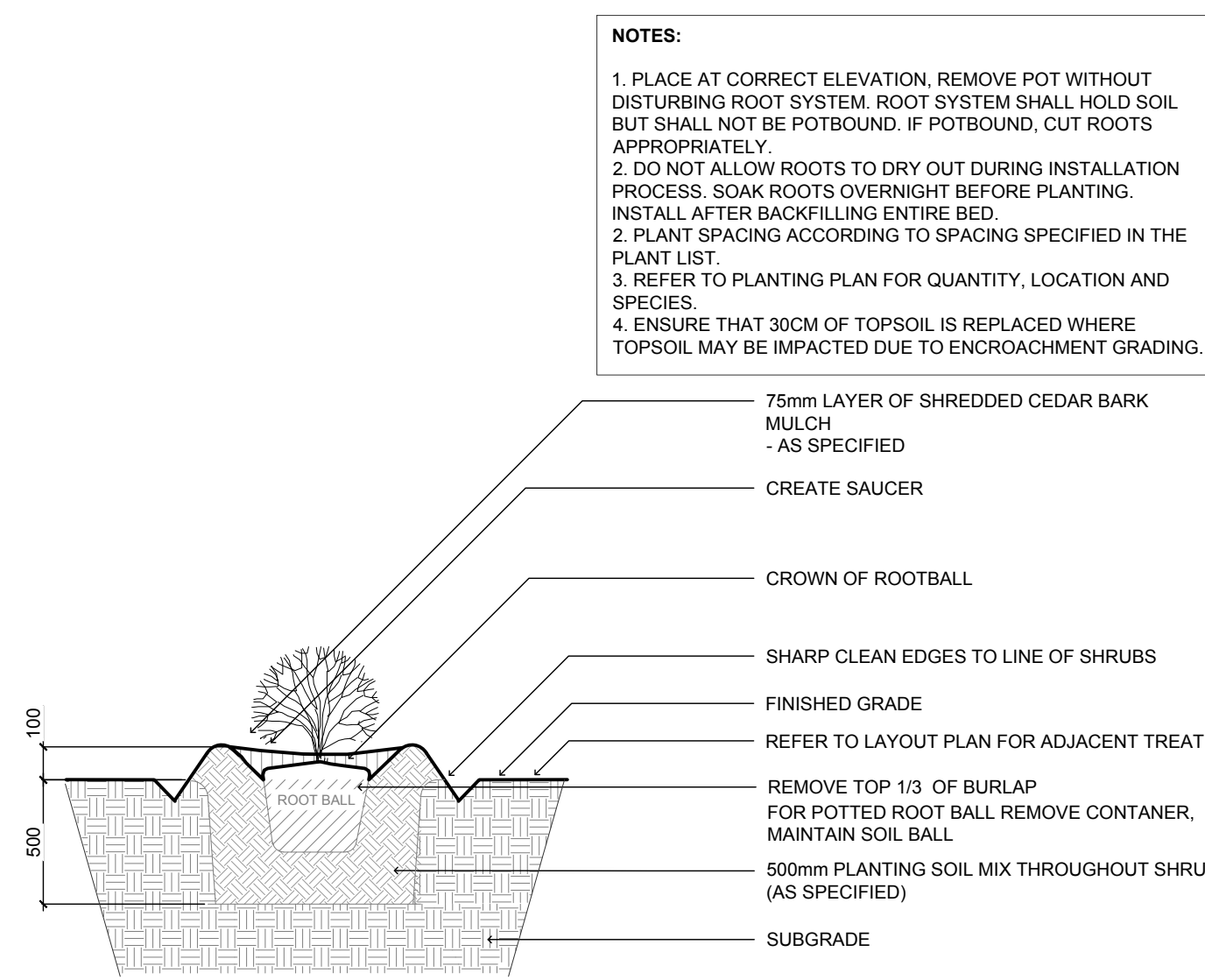
PROJECT NO: 21005
 SCALE: AS NOTED
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022

DRAWING NO.

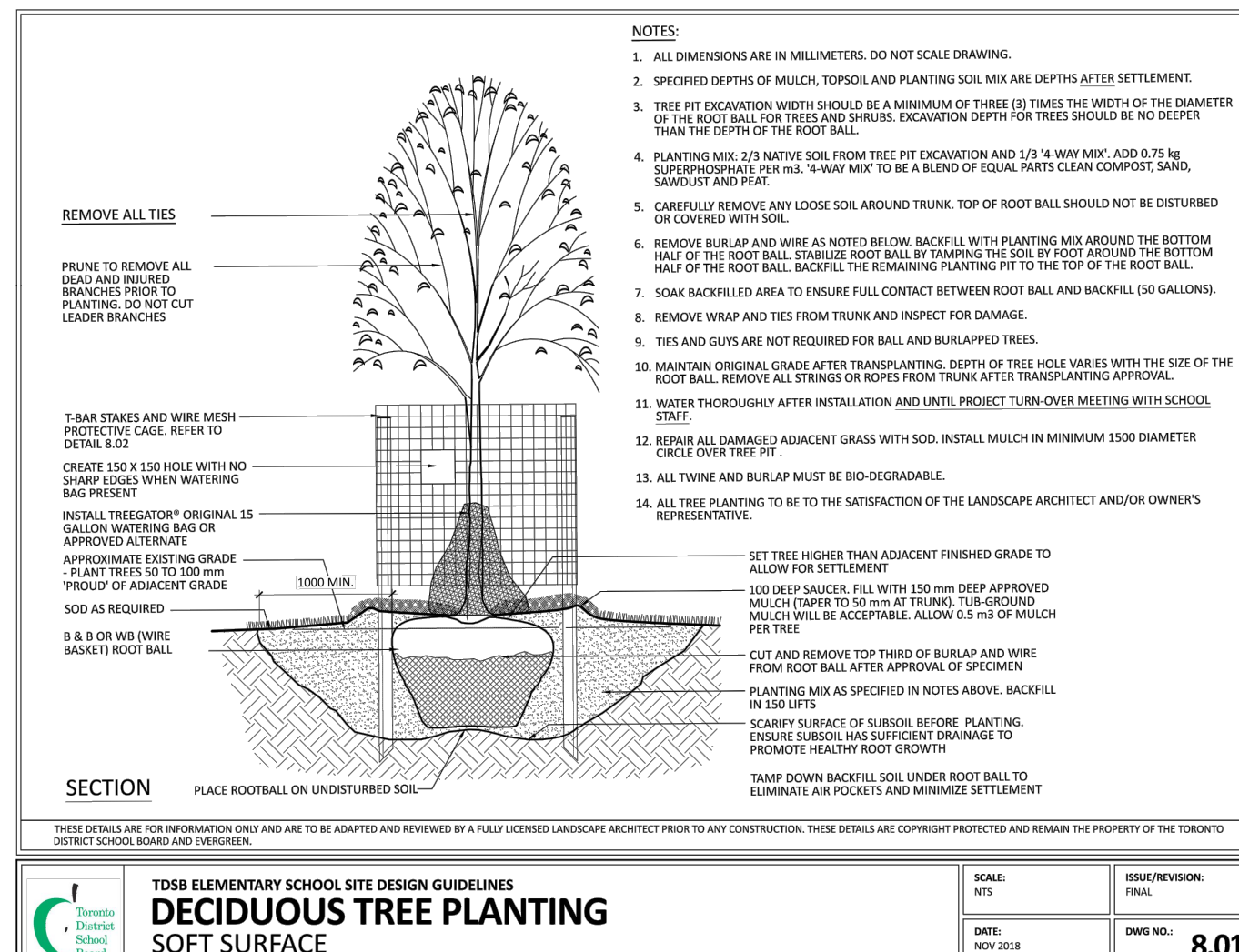
L7.0

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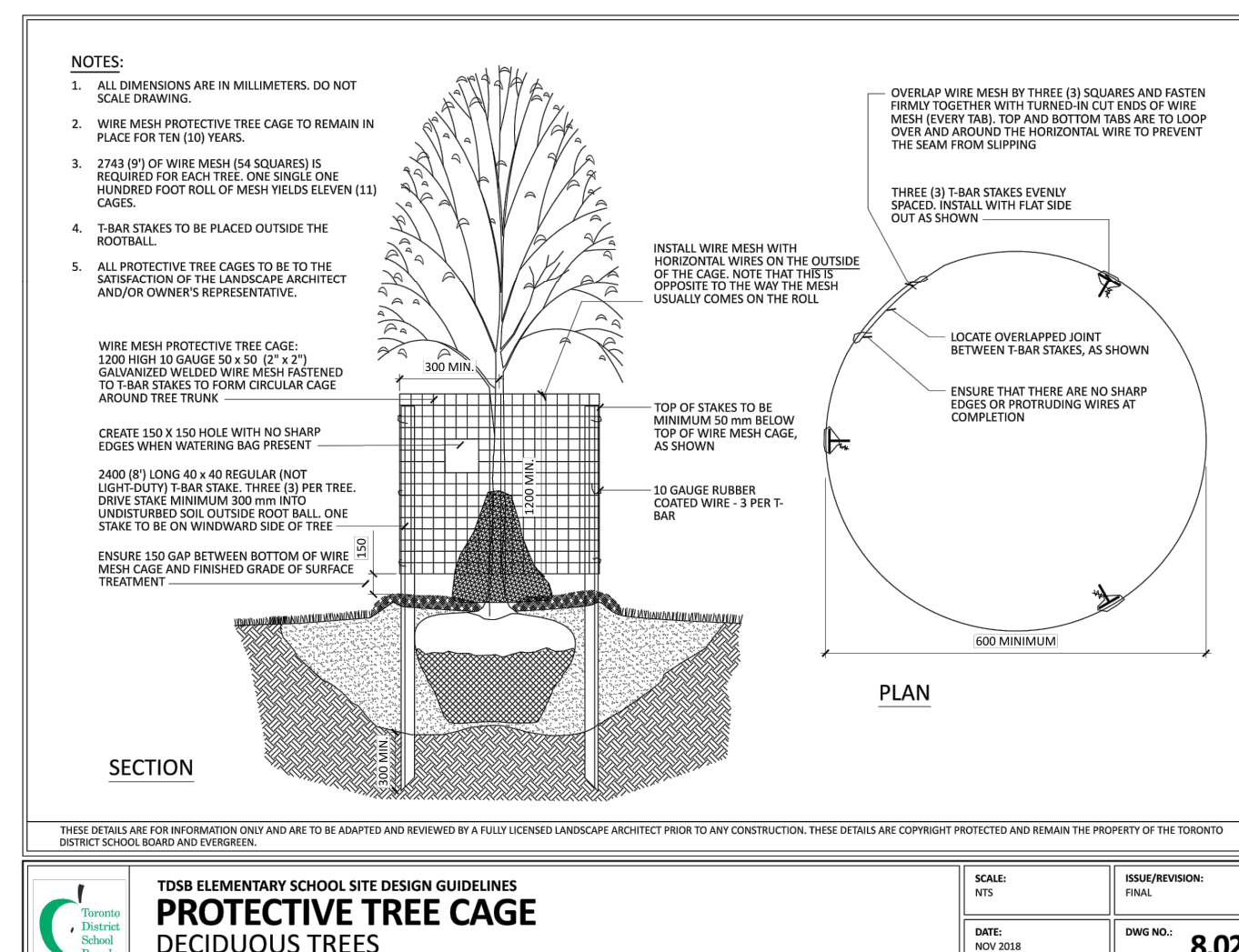
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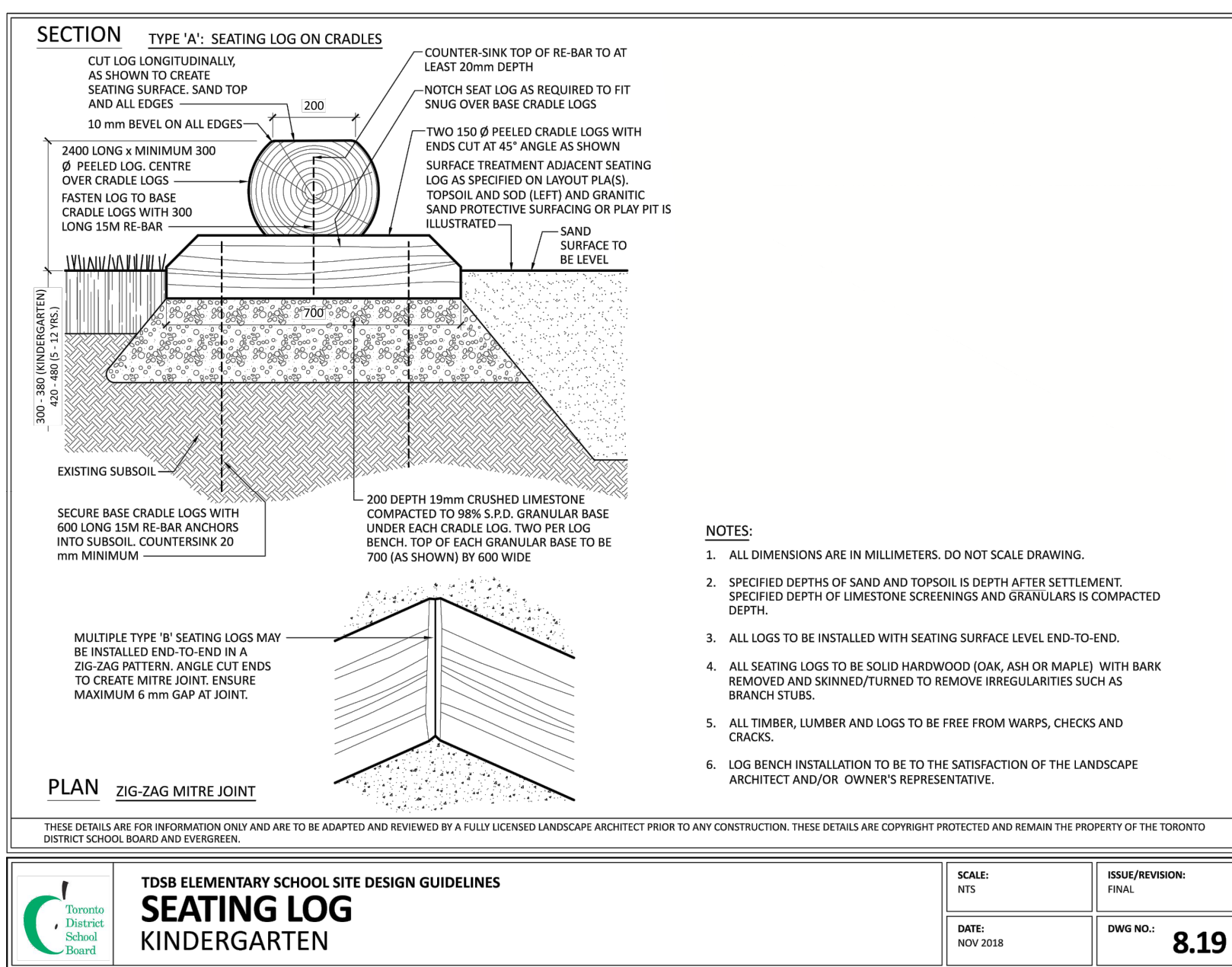
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 L8.0
SHRUB PLANTING
 NTS



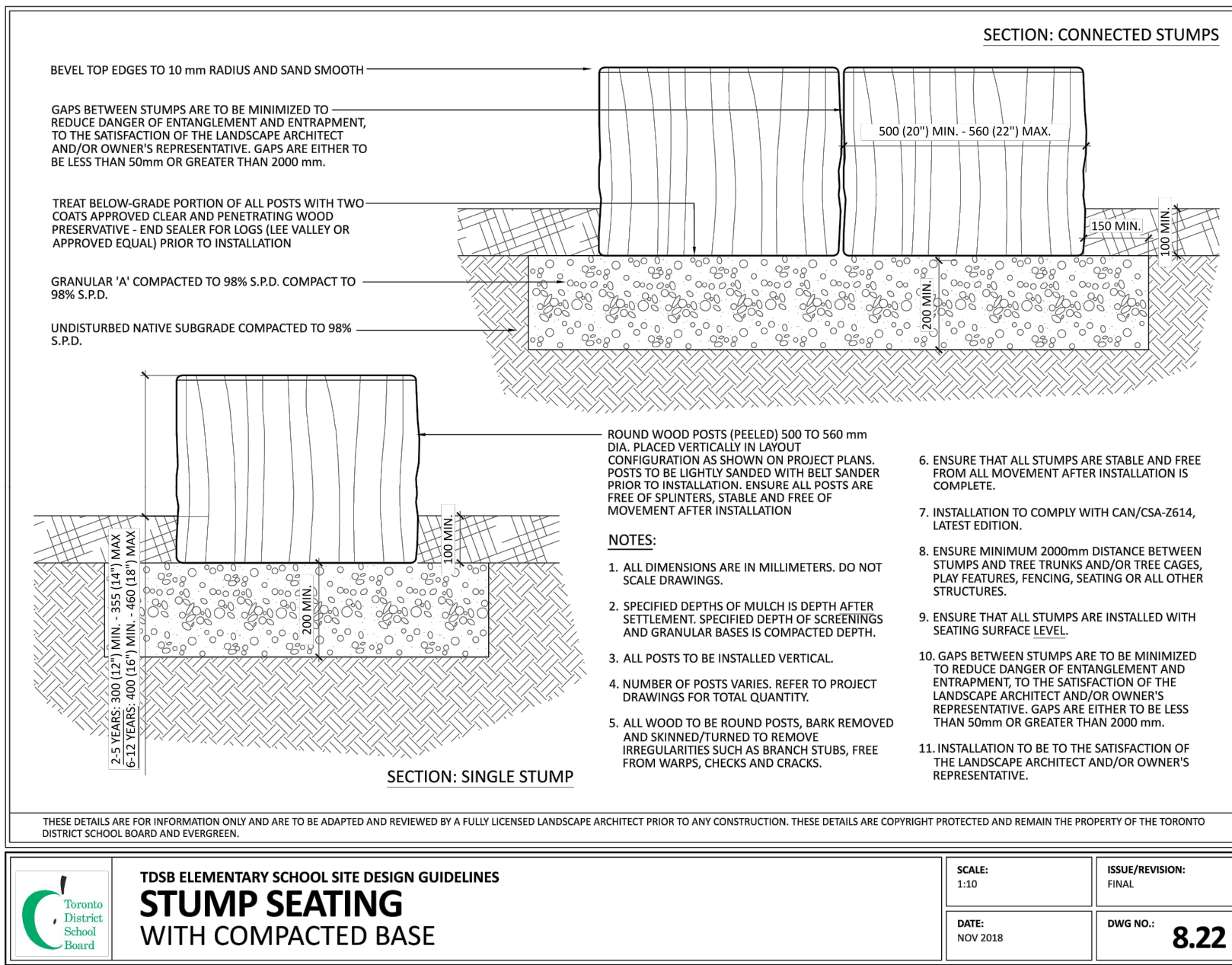
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 L8.0
DECIDUOUS TREE PLANTING
 NTS



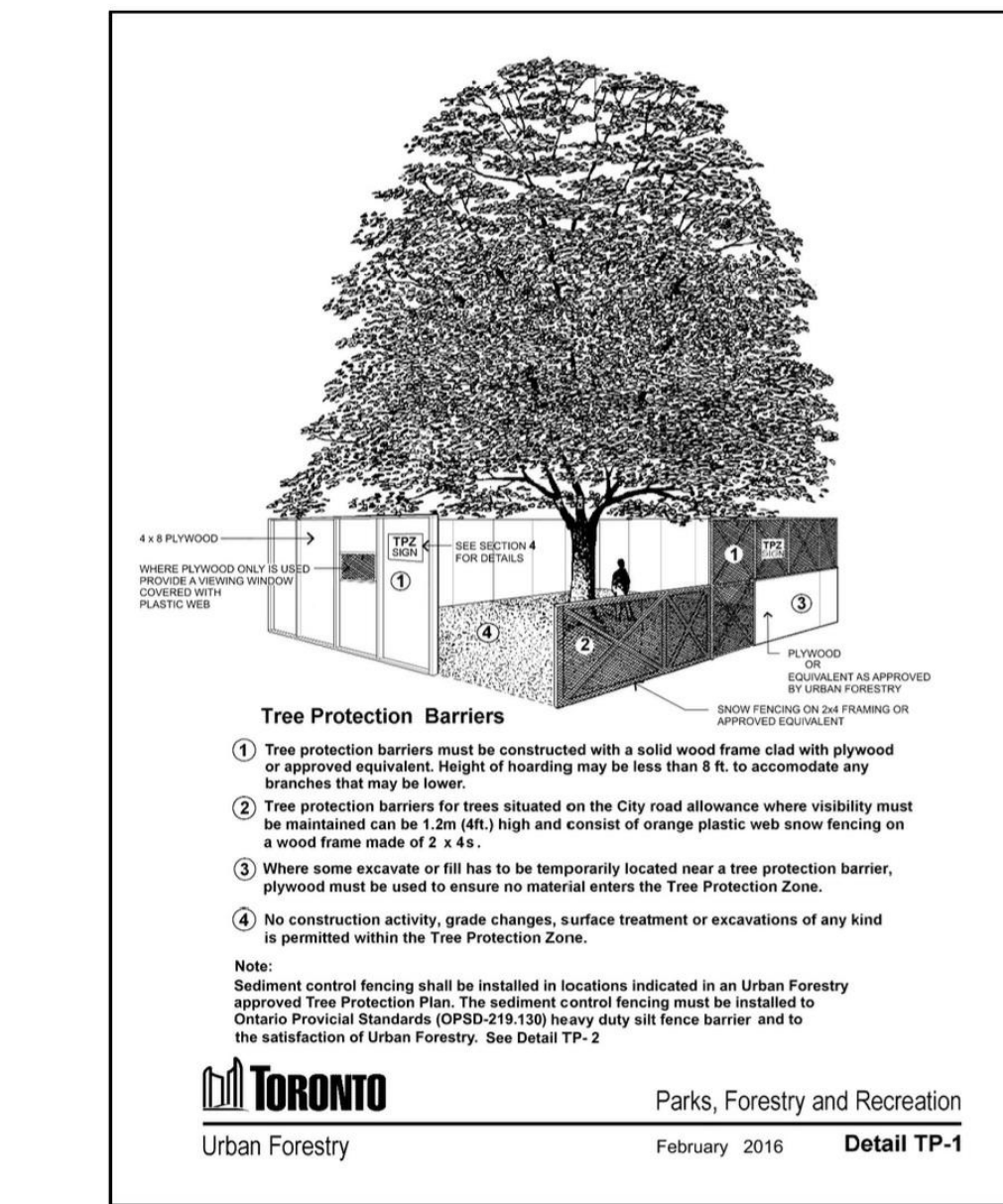
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 L8.0
FIBRE WEAVE CEDAR MULCH
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 L8.0
SEATING LOG
 NTS

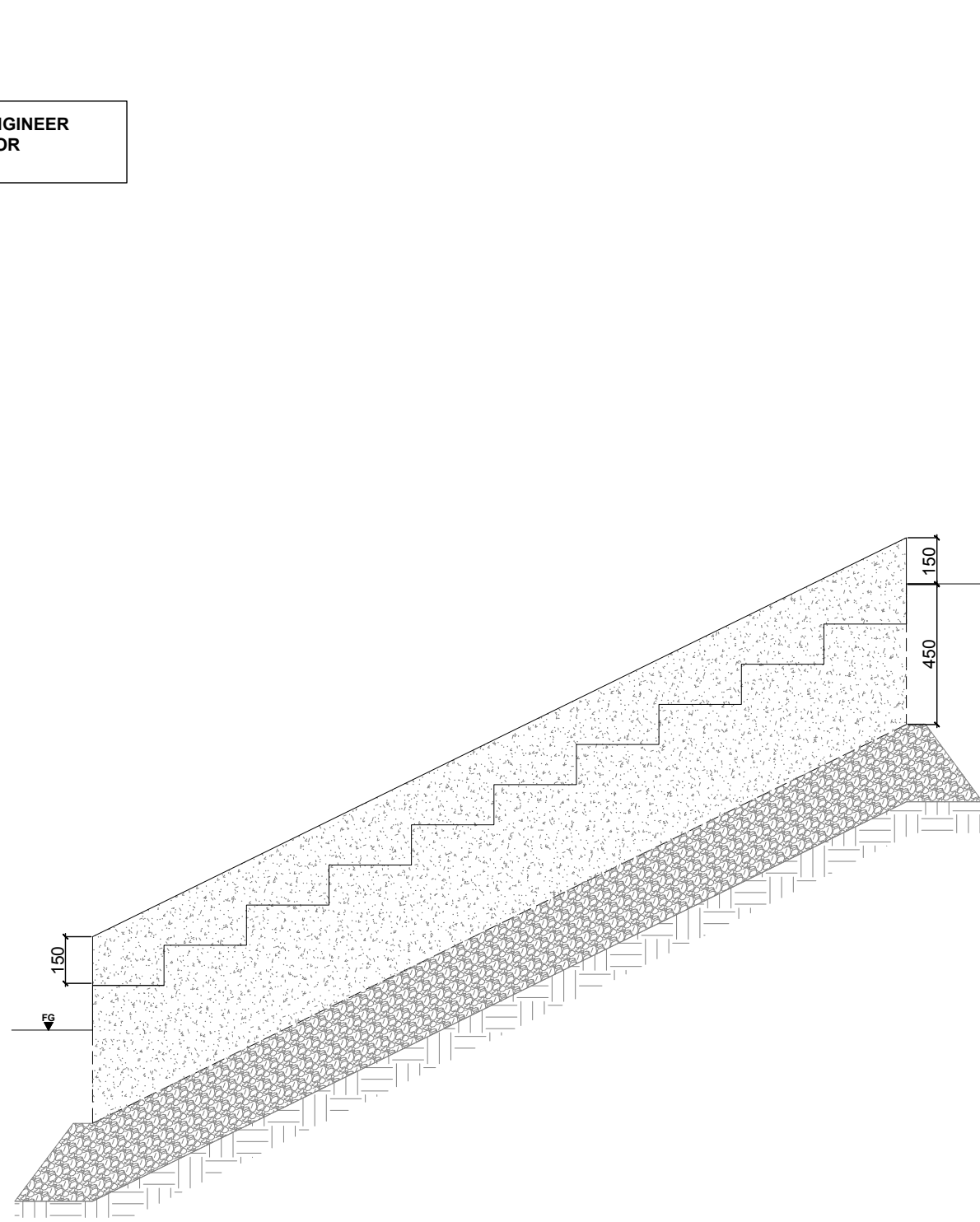


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STUMP SEATING
 NTS

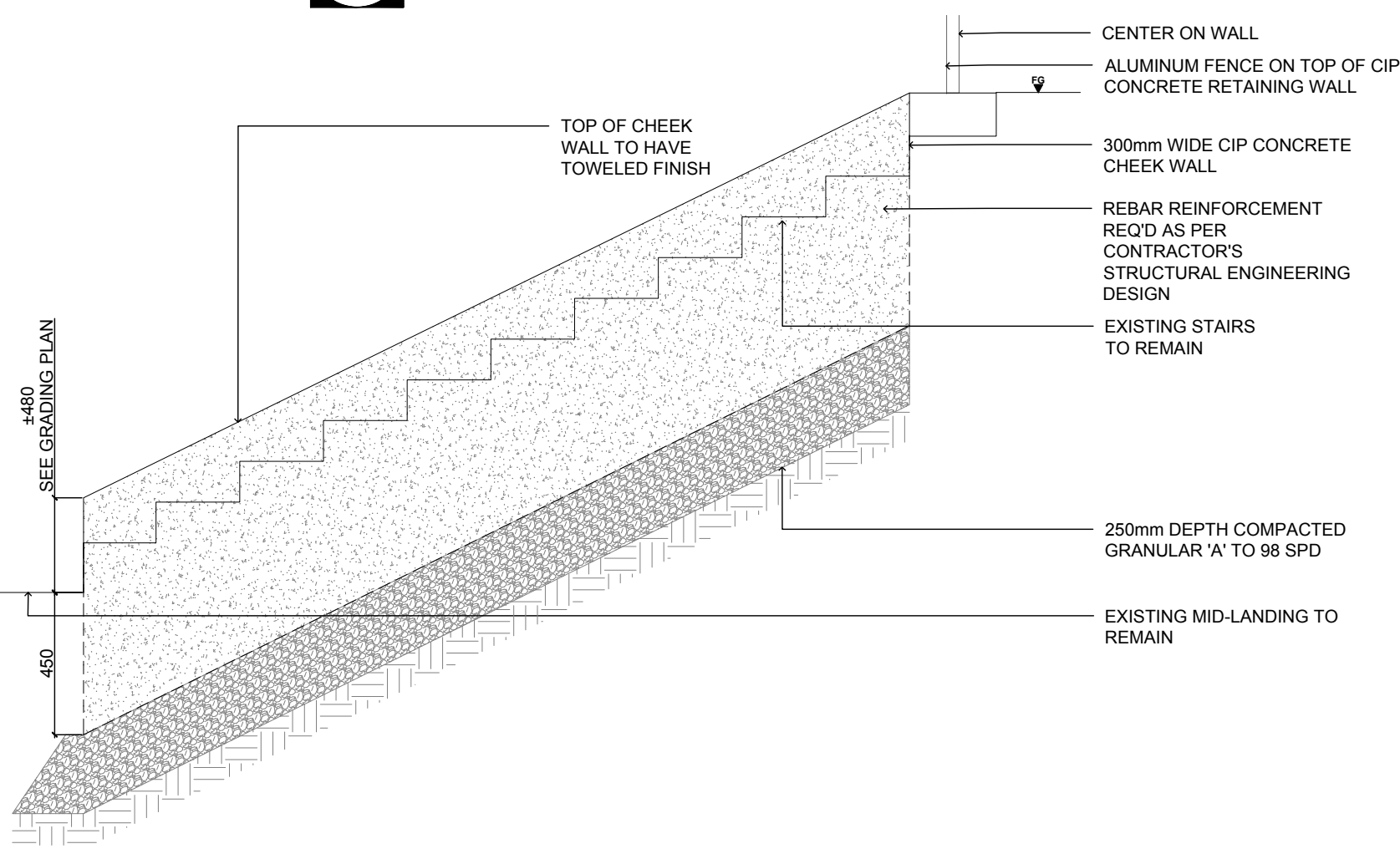


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 L8.0
TREE PROTECTION HOARDING
 NTS

CONTRACTOR TO PROVIDE ENGINEER STAMPED SHOP DRAWINGS FOR APPROVAL



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 L8.0
CIP CONCRETE CHEEK WALL AT STAIRS
 NTS



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CLIENT:
TORONTO DISTRICT SCHOOL BOARD

PROJECT:
ALLENBY JSP SLOPE STABILIZATION

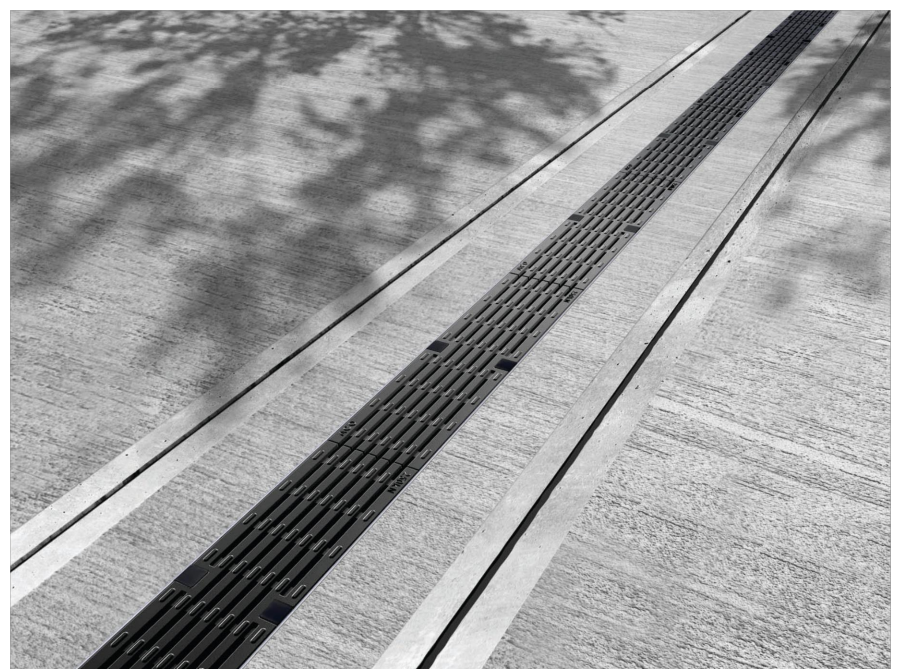
TITLE:
DETAILS

PROJECT NO: 21005
 SCALE: AS NOTED
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022

DRAWING NO.

L8.0

ACO DRAIN
Type 476D Longitudinal ductile iron grate (ADA)



Product Features

- Complies to EN 1433 Load Class C - 16,000 lbs - 1,182 psi
- Uses DrainLoK® boltless locking system
- Suitable for use with K100, K3100, and H100K-6 channels
- Manufactured from ductile iron to ASTM A 536-04 - Grade 65-45-12
- Coated for improved resistance against rust
- Complies with ADA - American Disabilities Act of 1990 Section 4.5.4
- Bicycle Tire Penetration Resistant to AS 3996 - 2006

Specifications

General: The surface drainage system shall be ACO Drain K100, K3100, and H100K-6 channels. Complete with ACO Type 476D longitudinal ductile iron grate with DrainLoK® locking system manufactured by ACO Polymer Products, Inc. or similar.

Material: The covers shall be manufactured from ductile iron and have minimum properties as follows:

- Compressive strength: 14,000 PSI
- Flexural strength: 4,000 PSI
- Tensile strength: 1,500 PSI
- Water absorption: 0.07%
- Frost proof: YES
- Dilute acid and alkali resistant: YES
- B117 salt spray test compliant: YES

The system shall be 4" (100mm) nominal internal width with a 5.1" (130mm) overall width and a built-in slope of 0.2%. Channel invert shall have developed "V" shape. All channels shall be interlocking with a male/female joint.

The complete drainage system shall be by ACO Polymer Products, Inc. Any deviation or partial system design and/or improper installation will void any and all warranties provided by ACO Polymer Products, Inc.

Channel shall withstand loading to proper load class as outlined by EN 1433 grate type shall be appropriate to meet the system load class specified and intended application. Grates shall be secured using DrainLoK® boltless locking system. Channel and grate shall be certified to meet the specified EN 1433 load class. The system shall be installed in accordance with the manufacturer's instructions and recommendations.

INSTALLATION SELECTION INFORMATION

1 Your Selection Information: Grate Description: Type 476D Longitudinal Ductile Iron Grate; Pavement Finish: Concrete

2 Additional Information based on your selection: Load Class: C - 56,000lbs - 1,182 psi; Length: 19.67' (5900 mm); Channel System: KlassikDrain K100, K3100; SubDrain H100K-6, H100-10, H100K-6; Part No.: 142171

Note: The information is for grate only. Channels sold separately.

ACO Polymer Products, Inc.
825 W. Beachcroft St., Chicago, IL 60656
Tel: 800-421-9988
Fax: 800-421-9989
www.acousa.com

9470 Pioneer Dr., Mentor, OH 44060
Tel: 440-439-7230
Fax: 440-439-7235

4211 Pleasant Rd., Fort Mill, SC 29708
Tel: 440-636-7230
Fax: 803-503-1063

403 Pioneer Products, Inc.
New York Office: 875 Broadway, New York, NY 10010
Tel: 212-693-0100
Tel: 212-693-0101
Tel: 212-693-0102
Tel: 212-693-0103
Tel: 212-693-0104
Tel: 212-693-0105
Tel: 212-693-0106
Tel: 212-693-0107
Tel: 212-693-0108
Tel: 212-693-0109
Tel: 212-693-0110

Portland Sales Office: 675 Commercial, Portland, ME 04101
Tel: 603-883-7230
Tel: 603-883-7235

San Francisco Office: 221 Francisco, Fort MA, SC 29708
Tel: 803-503-1063
Tel: 803-503-1064
Tel: 803-503-1065
Tel: 803-503-1066
Tel: 803-503-1067
Tel: 803-503-1068
Tel: 803-503-1069
Tel: 803-503-1070

ACO
August 2017
www.ACOdrain.us

Grates + Pavement
Visualizer

ACO DRAIN
Type 476D Longitudinal ductile iron grate (ADA)

- Product Features**
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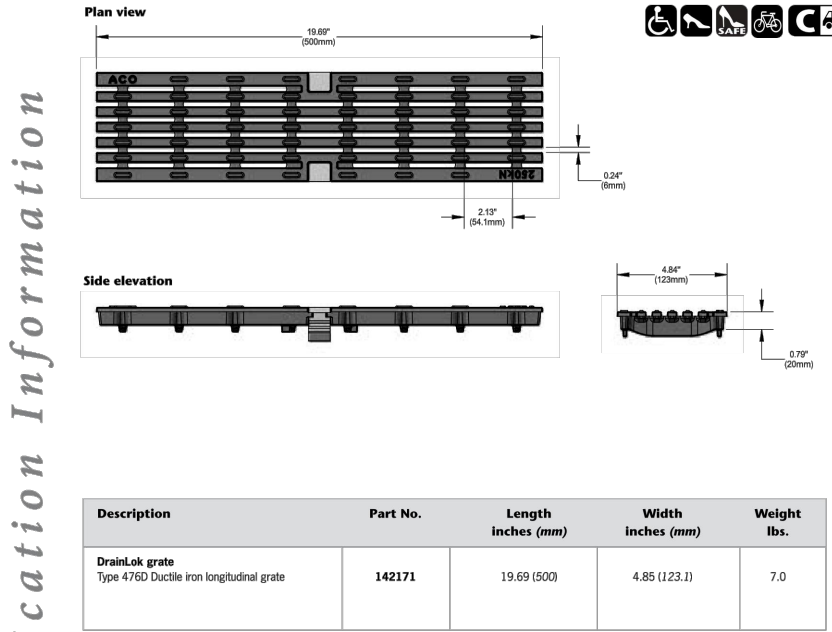
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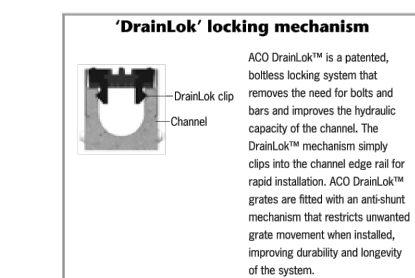
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ACO Specification Information

ACO DRAIN
Type 476D Longitudinal ductile iron grate (ADA)



Description	Part No.	Length (feet)	Width (inches)	Weight (lbs)
DrainLoK grate Type 476D Ductile iron longitudinal grate	142171	19.67 (600)	4.81 (122.9)	7.0



ACO Polymer Products, Inc.
New York Office: 875 Broadway, New York, NY 10010
Tel: 212-693-0100
Tel: 212-693-0101
Tel: 212-693-0102
Tel: 212-693-0103
Tel: 212-693-0104
Tel: 212-693-0105
Tel: 212-693-0106
Tel: 212-693-0107
Tel: 212-693-0108
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Tel: 212-693-0110

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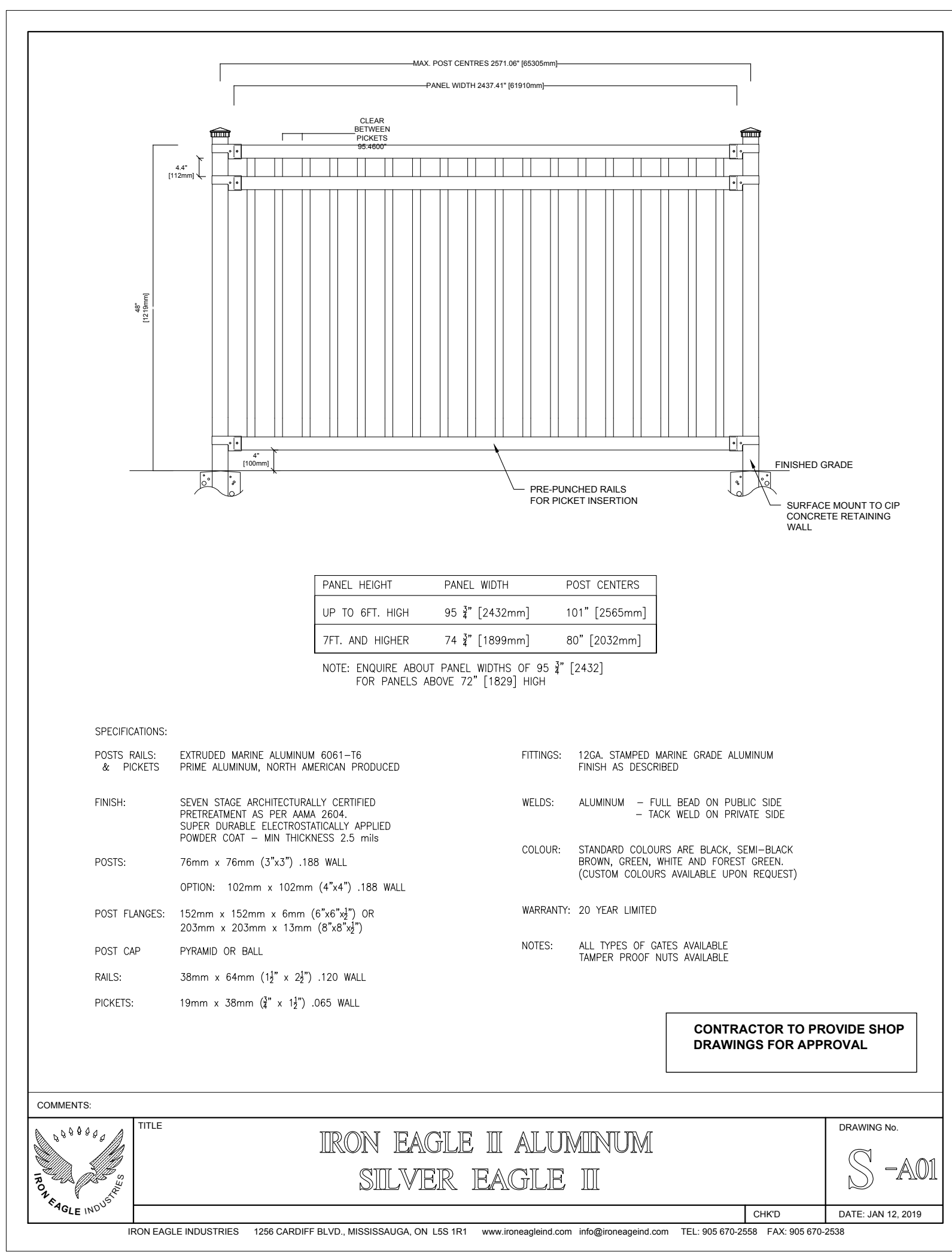
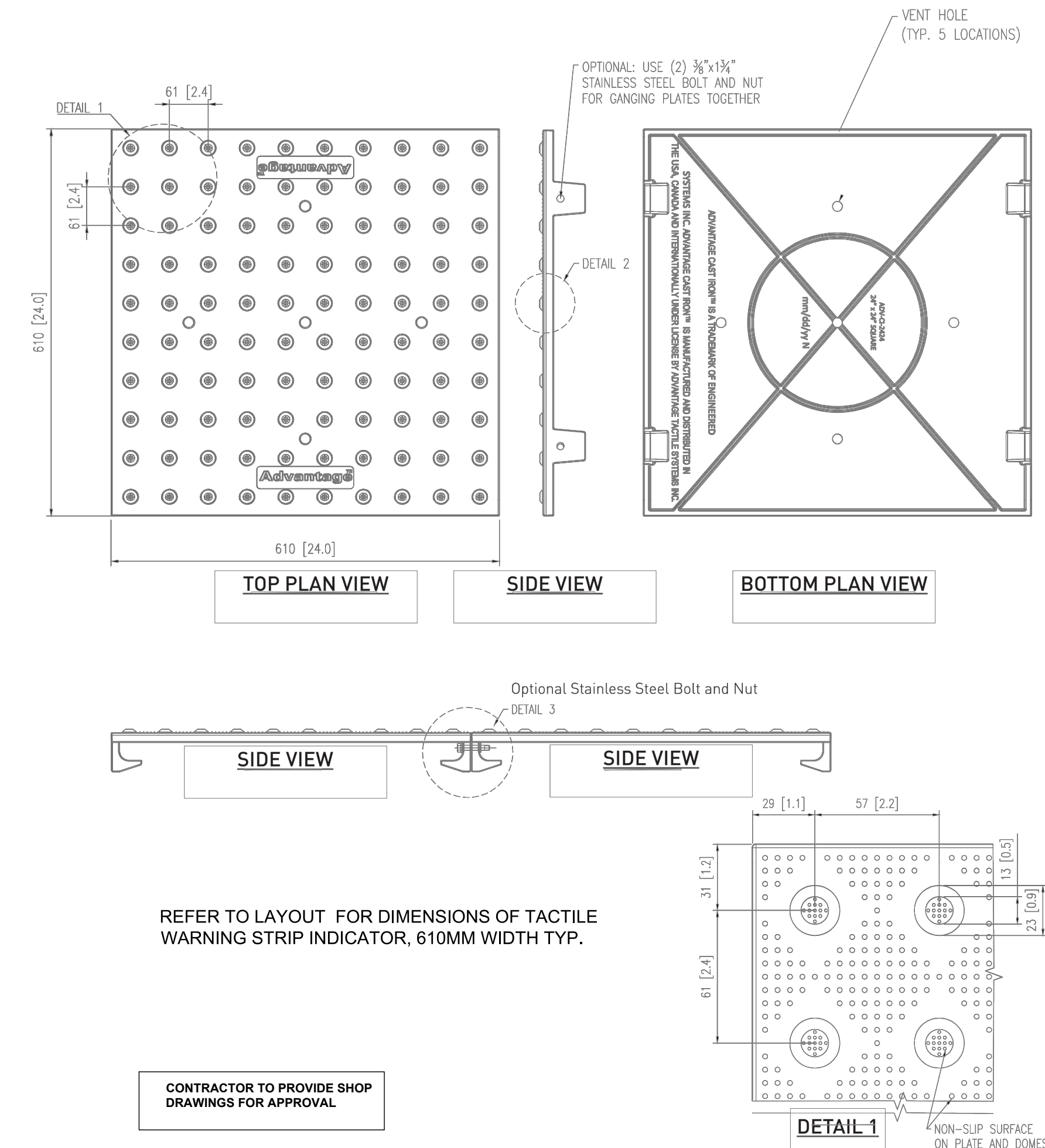
San Francisco Office: 221 Francisco, Fort MA, SC 29708
Tel: 803-503-1063
Tel: 803-503-1064
Tel: 803-503-1065
Tel: 803-503-1066
Tel: 803-503-1067
Tel: 803-503-1068
Tel: 803-503-1069
Tel: 803-503-1070

ACO
August 2017
www.ACOdrain.us

SPEC INFO

1 TRENCH DRAIN
L10.0 NTS

KINESIK TACTILE WALKING SURFACE (TWS) WITH TRUNCATED DOMES



3 ALUMINUM FENCE (TOP OF RETAINING WALL)
L10.0 NTS

2 TACTILE WARNING STRIP
L10.0 NTS

GENERAL NOTES
1. ALL DRAWINGS ARE IN MILLIMETERS UNLESS OTHERWISE INDICATED.
2. THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND REPORT DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
3. ALL DRAWINGS AND SPECIFICATIONS ARE THE PROPERTY OF THE LANDSCAPE ARCHITECT AND MUST BE RETURNED ON REQUEST.
4. DO NOT SCALE DRAWINGS.

NOTE
CONTRACTOR RESPONSIBLE TO PERFORM THEIR OWN TESTING OF THE EXISTING SUB-GRADE CONDITION FOR WHERE THE PROPOSED CONCRETE RETAINING WALL, CHEEK WALLS, AND CURB WALL WILL BE CONSTRUCTED.

07	
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09	
10	
11	ISSUED FOR TENDER 2022-04-21
12	
NO. REVISIONS	DATE

CLIENT:
TORONTO DISTRICT SCHOOL BOARD

PROJECT:
ALLENBY JSP SLOPE STABILIZATION

DETAILS

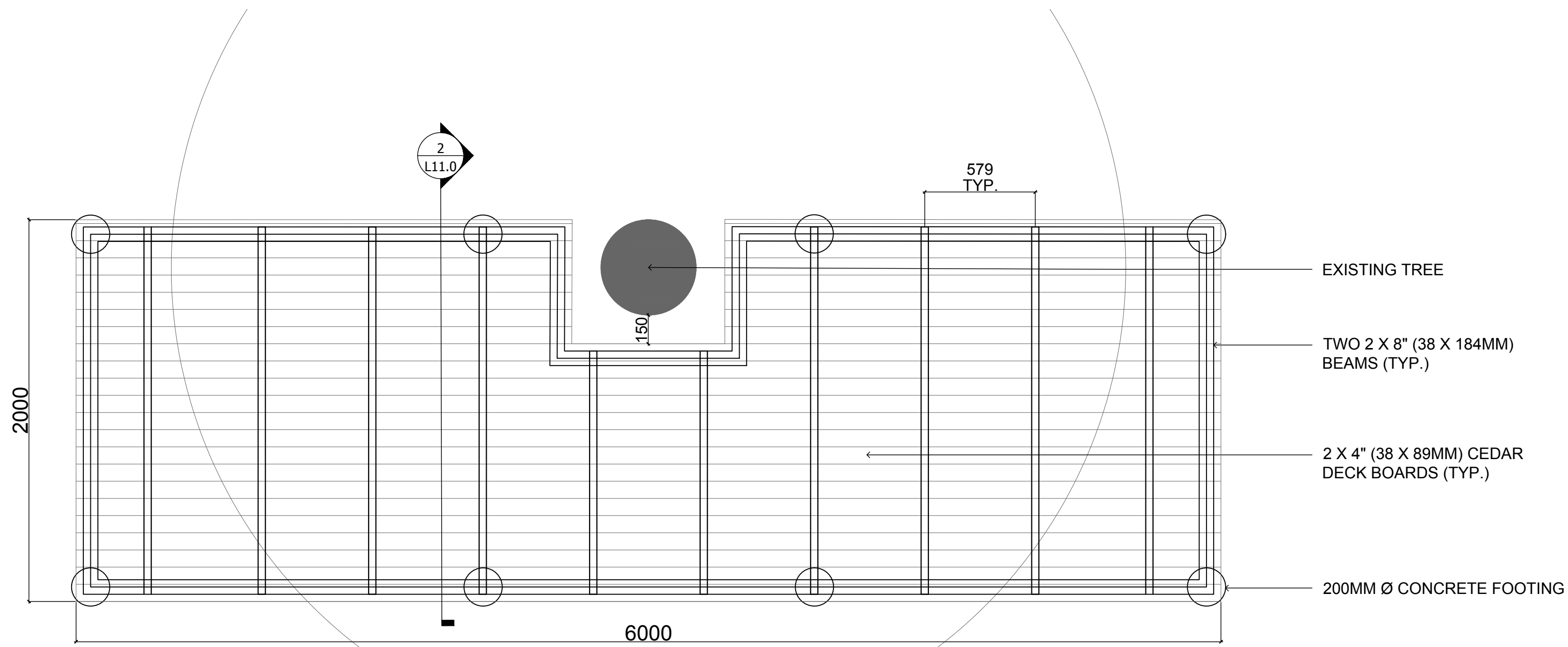
PROJECT NO: 21005
SCALE: AS NOTED
DRAWN BY: JA
REVIEWED BY: NT
PRINT DATE: 4/21/2022

DRAWING NO.

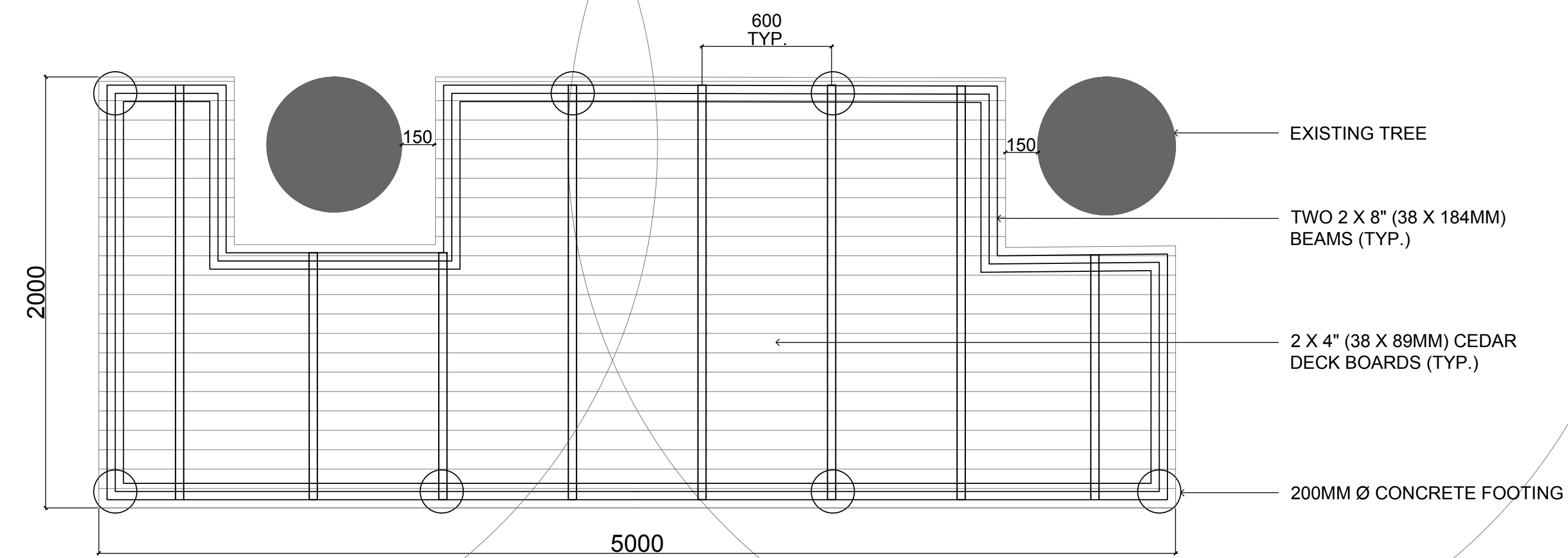
L10.0

- GENERAL NOTES
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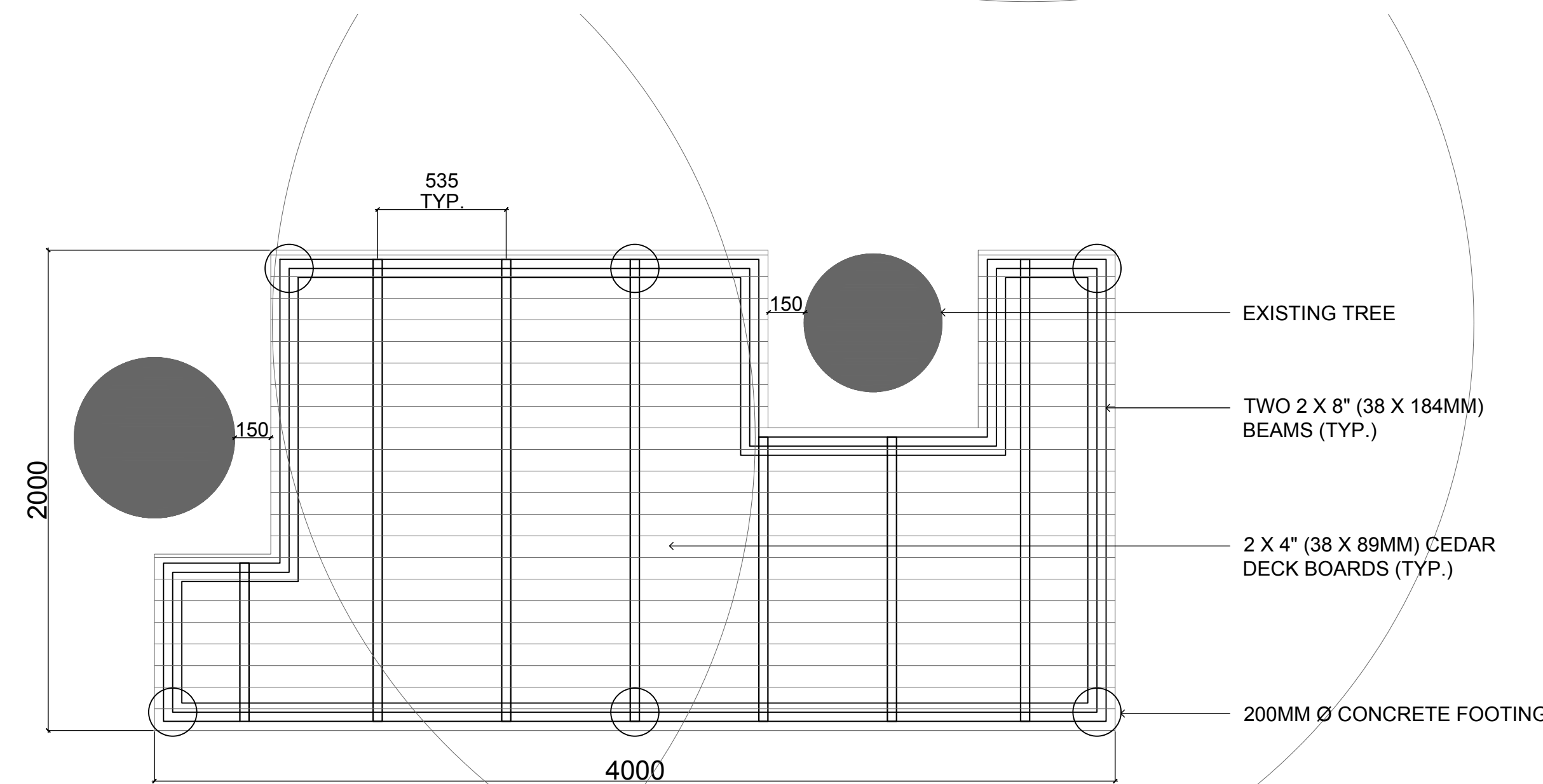
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RAISED WOOD DECK PLATFORM 'C'

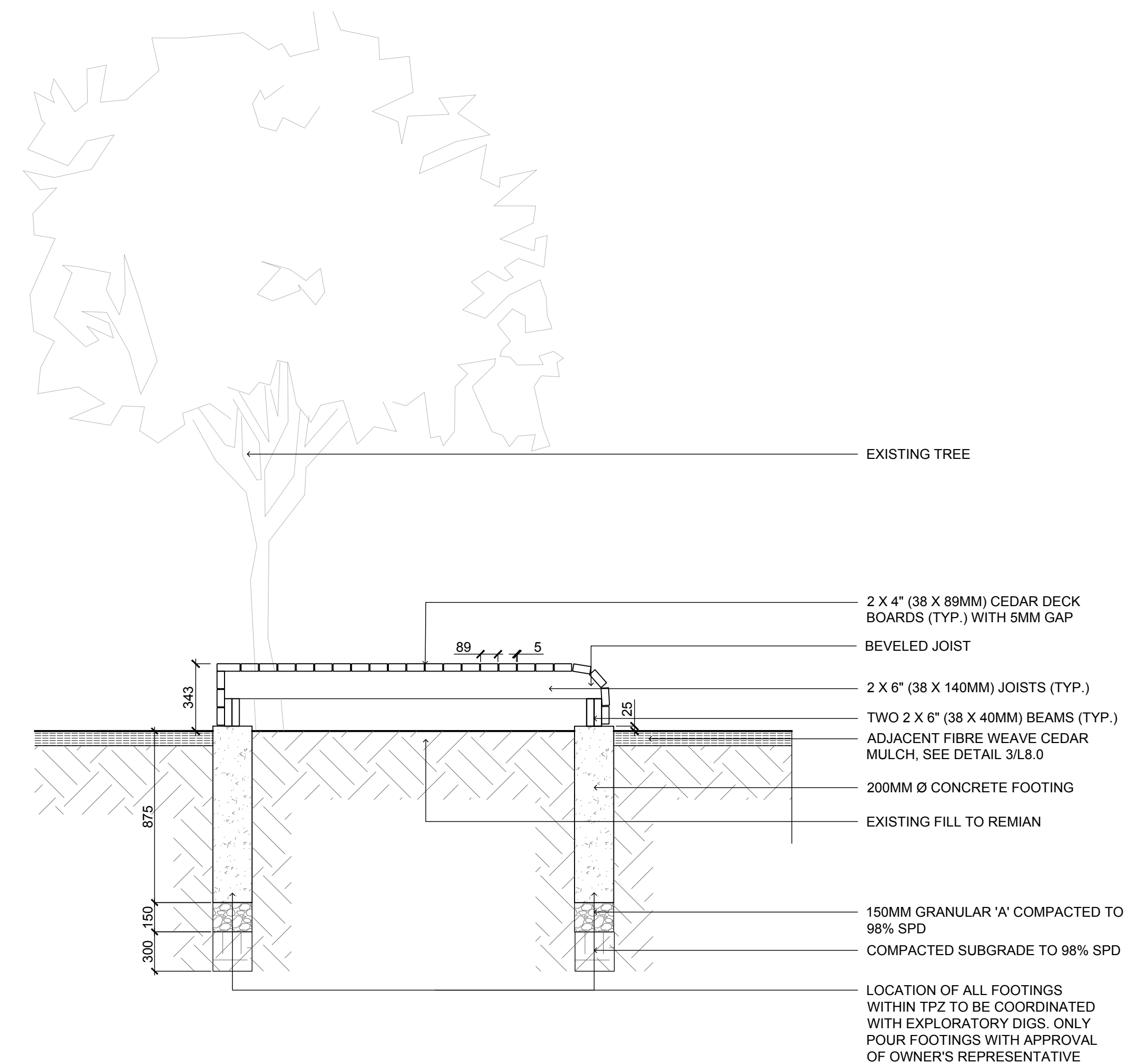


RAISED WOOD DECK PLATFORM 'B'



RAISED WOOD DECK PLATFORM 'A'

NOTE
 CONTRACTOR TO PROVIDE ENGINEER STAMPED SHOP DRAWINGS FOR APPROVAL INCLUDING, BUT NOT LIMITED TO, LAYOUT OF FOOTINGS, BEAMS AND JOISTS FOR PLATFORM DECK SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN ONTARIO



NO.	REVISIONS	DATE
07		
06		
05		
04		
03		
02		
01	ISSUED FOR TENDER	2022-04-21

CLIENT:
TORONTO DISTRICT SCHOOL BOARD

PROJECT:
ALLENBY JSP SLOPE STABILIZATION

TITLE:
DETAILS

PROJECT NO: 21005
 SCALE: AS NOTED
 DRAWN BY: JA
 REVIEWED BY: NT
 PRINT DATE: 4/21/2022

DRAWING NO.

L11.0