

STRATFORD WATERFRONT GATHERING & EVENT SPACE

TOWN OF STRATFORD, PEI

DRAWING LIST:

CIVIL

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ELECTRICAL

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- E4 – SERVICE ENTRANCE DETAIL, SCHEMATICS & SCHEDULES



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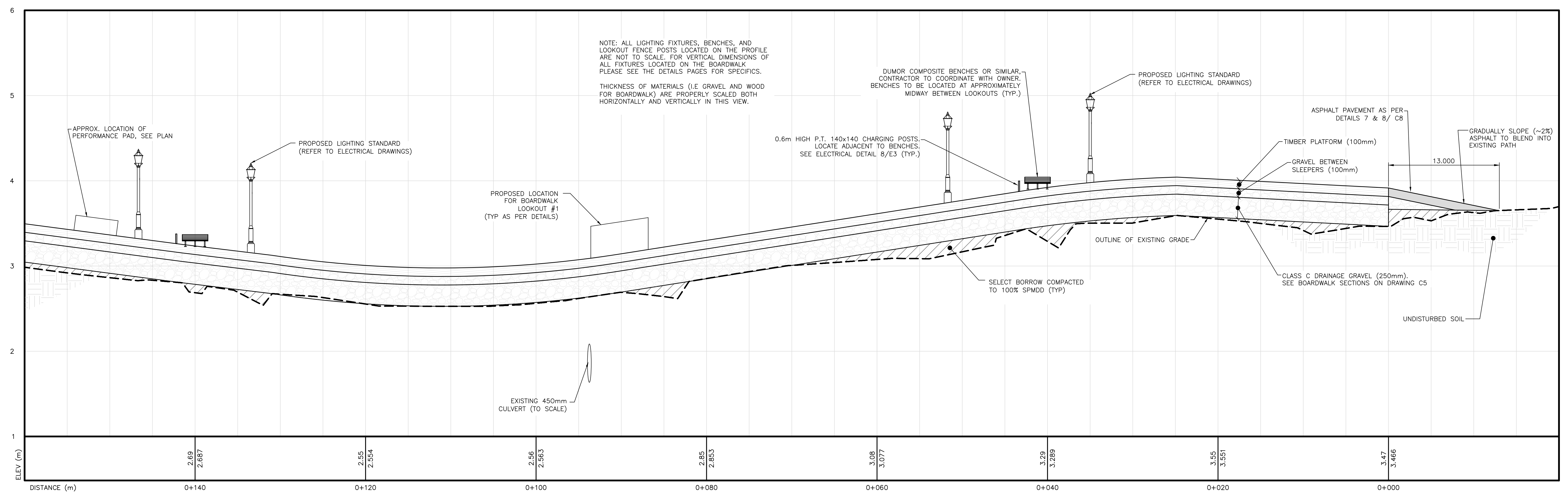
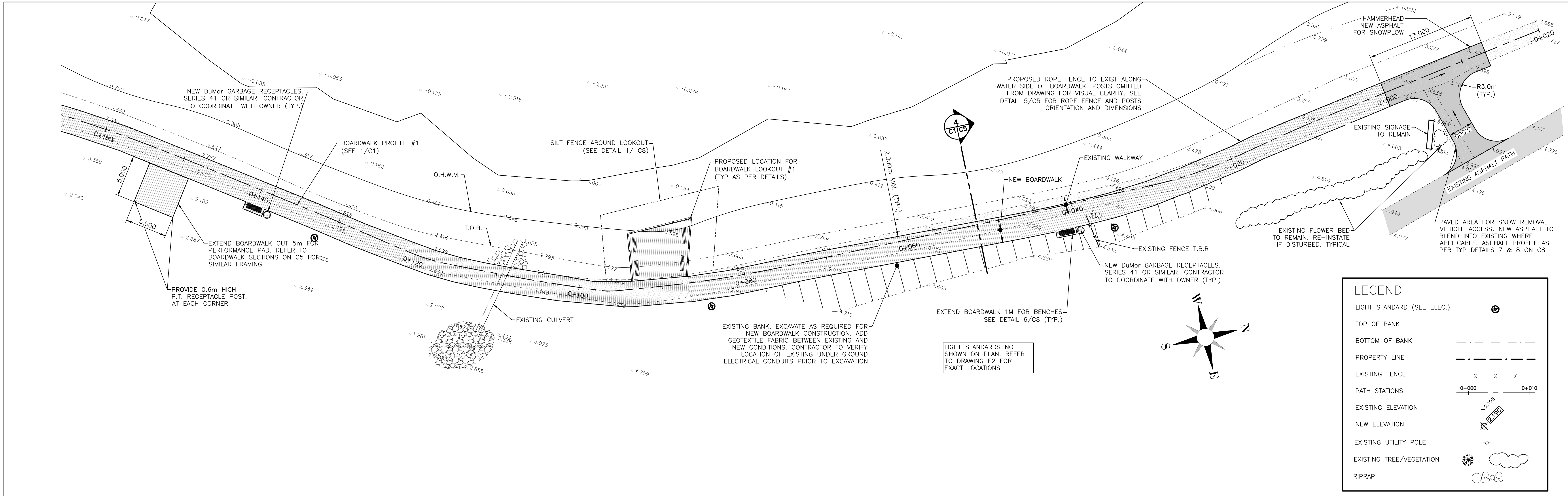
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Client
Town of Stratford

Project Title
Stratford Waterfront
Gathering & Event Space

Sheet Title
Location Plan

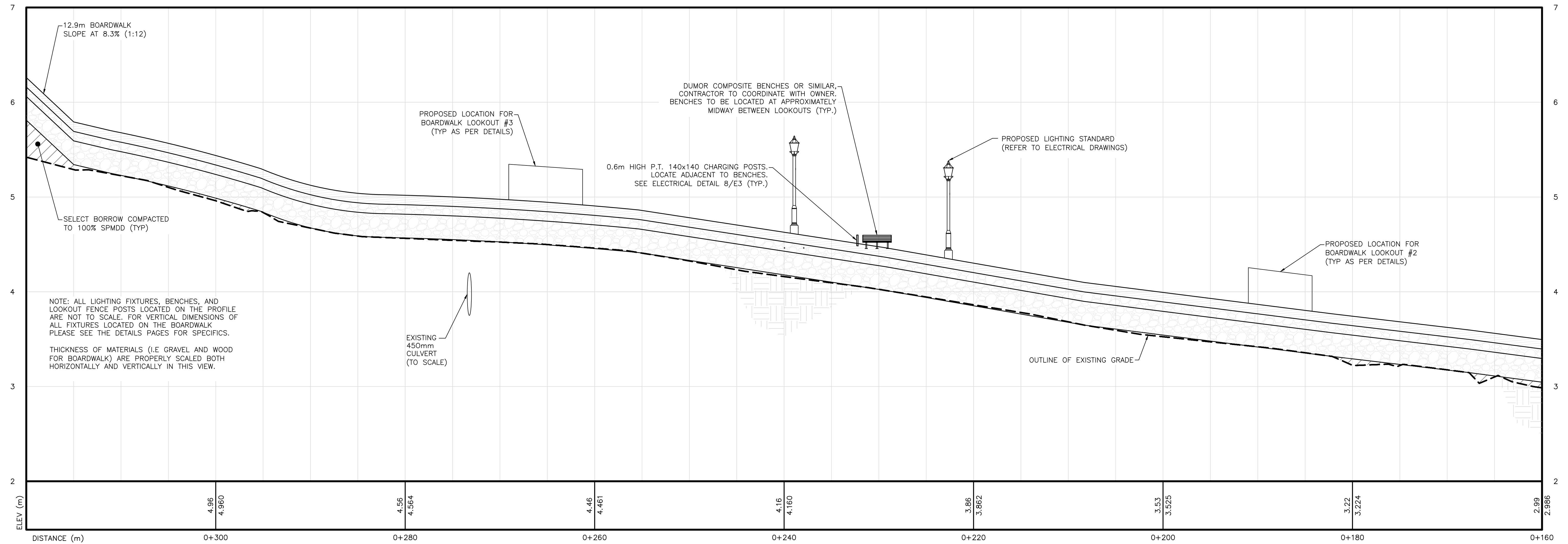
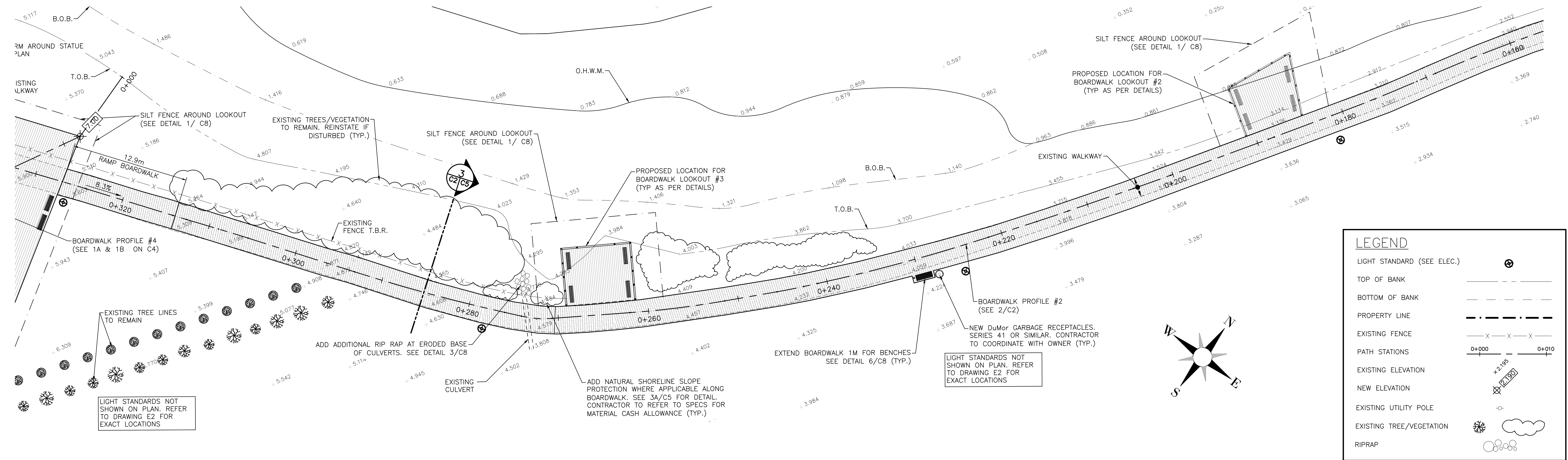
No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-07-25	2023-07-25	0
			Dim By: MK, EIT/SPB	
			Chk By: NL, P.Eng	
			Project Number:	
			221122	
			Drawing Number:	
			C0	



1 PROFILE: BOARDWALK ALIGNMENT #1
1:200 H, 1:20 V

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				0	Issued for Tender	2023-07-25	<p>Drawn By: MK, ETI/SPB</p> <p>Checked By: NL, P.Eng</p> <p>Project Number: 221122</p> <p>Drawing Number: C1</p>	

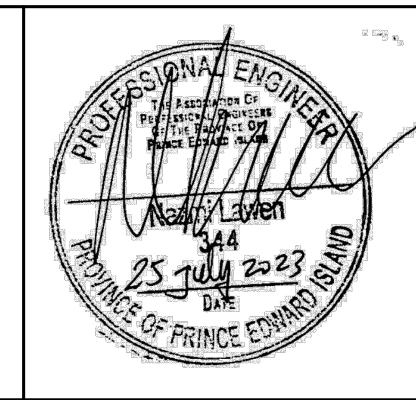
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1 PROFILE: BOARDWALK ALIGNMENT #2
1:200 H, 1:20 V

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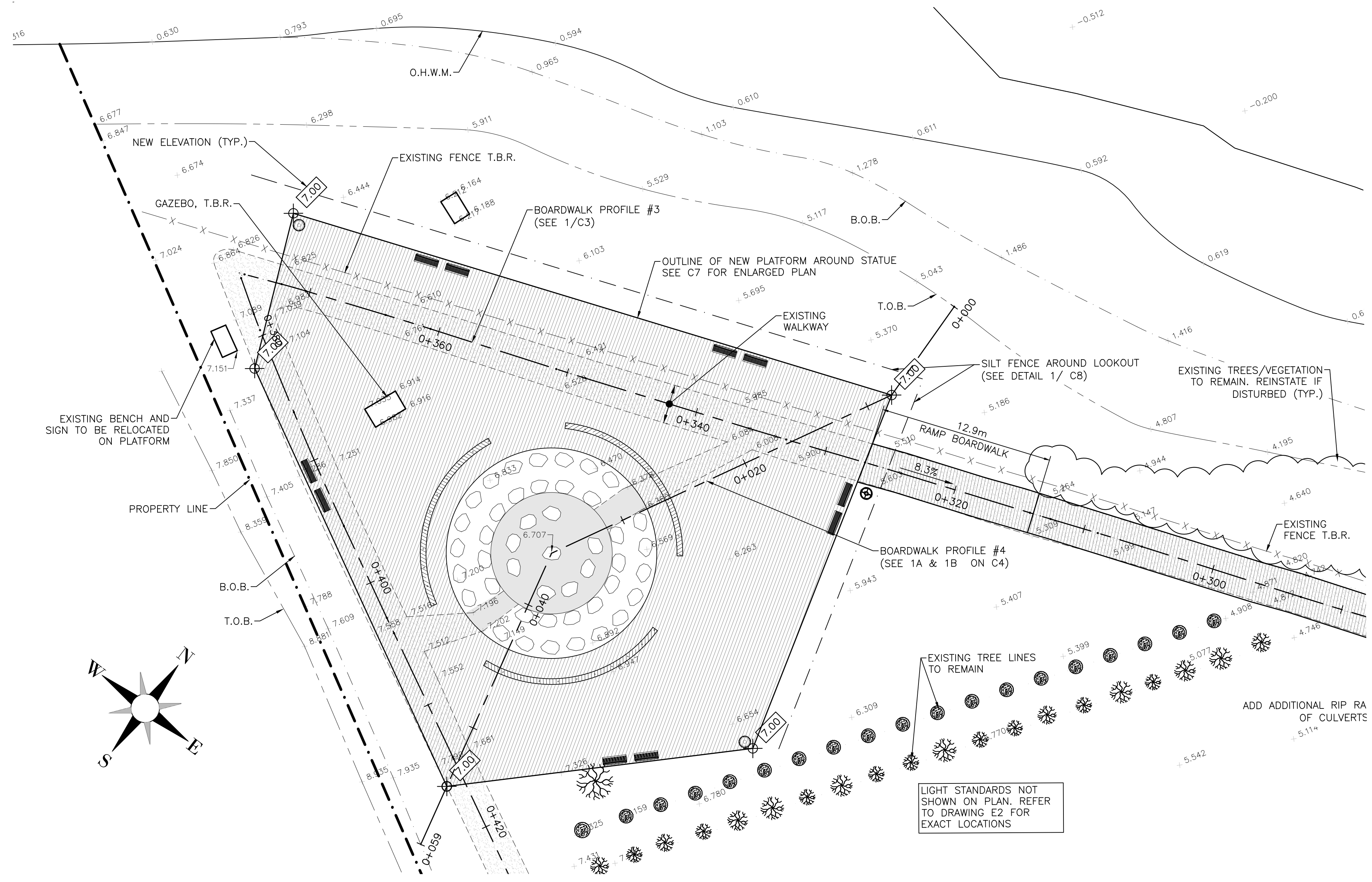


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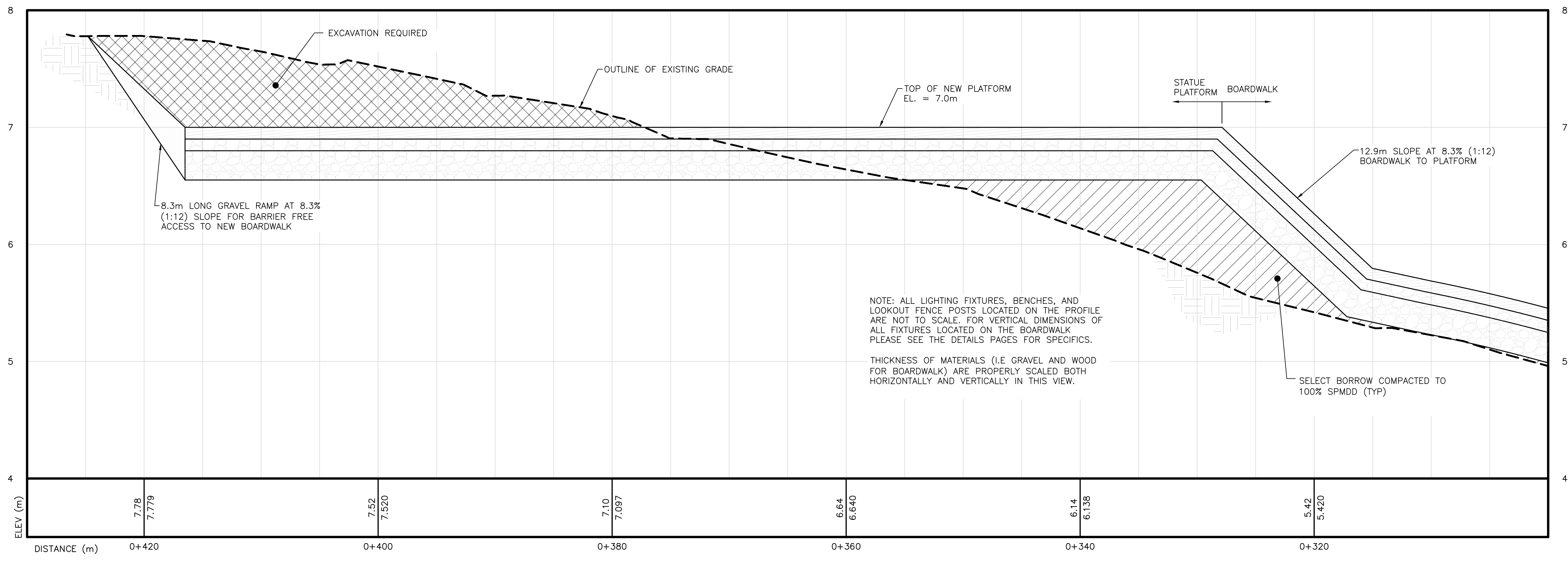
Project Title
Stratford Waterfront
Gathering & Event Space

Sheet Title
Site Plan & Profile #2
Station 0+160 to 0+320

No.	Description	Date	Date:	Revision
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			Drn By: MK, ETI/SPB	
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			Project Number:	
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			Drawing Number:	
			C2	

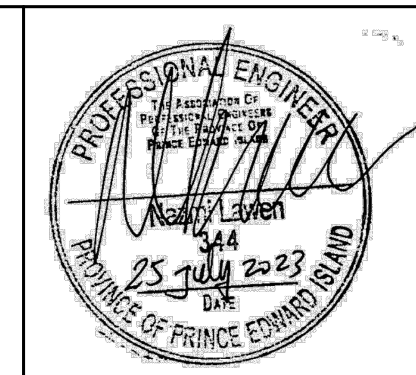


LEGEND	
LIGHT STANDARD (SEE ELEC.)	
TOP OF BANK	
BOTTOM OF BANK	
PROPERTY LINE	
EXISTING FENCE	
PATH STATIONS	
EXISTING ELEVATION	
NEW ELEVATION	
EXISTING UTILITY POLE	
EXISTING TREE/VEGETATION	
RIPRAP	



1 PROFILE: BOARDWALK ALIGNMENT #3
 1:200 H, 1:20 V

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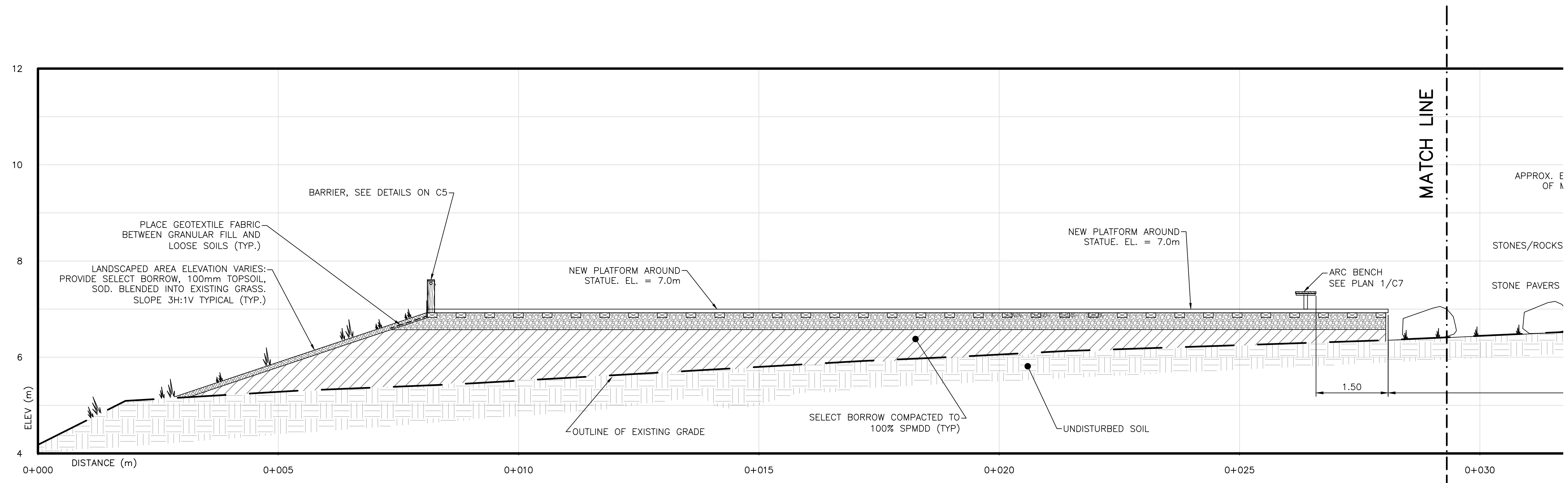


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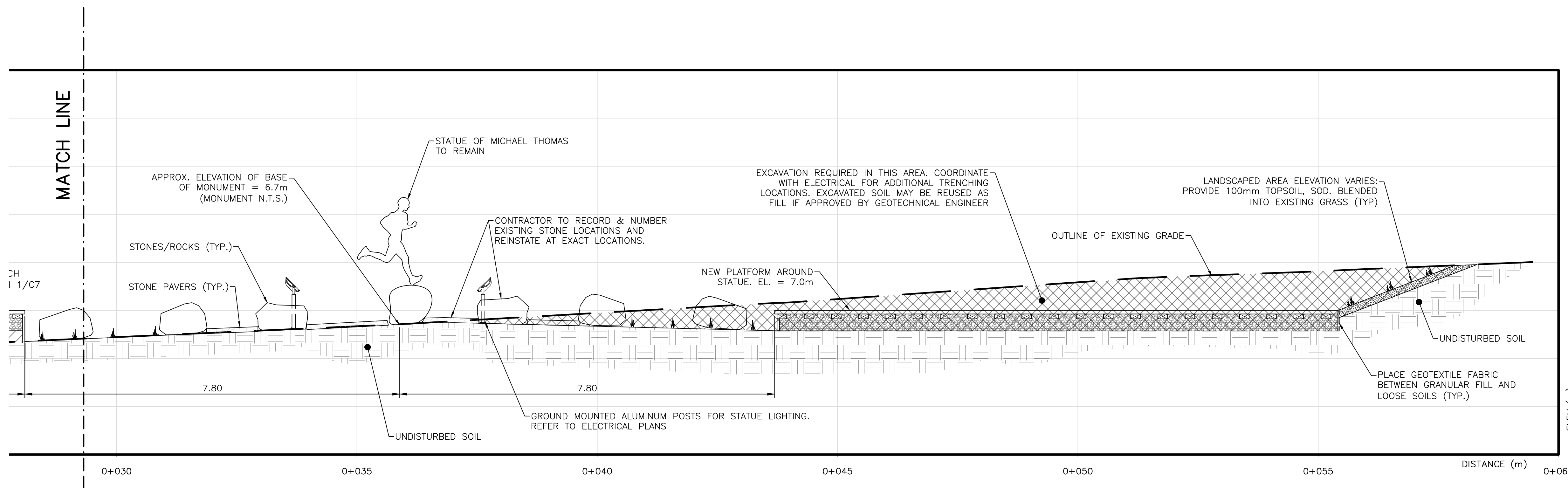
Project Title
 Stratford Waterfront
 Gathering & Event Space

Sheet Title
 Site Plan & Profile #3
 Station 0+300 to 0+430

No.	Description	Date	Date:	Revision
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			Drn By: SPB	
			Chk By: NL, P.Eng	
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			221122	
			Drawing Number:	
			C3	

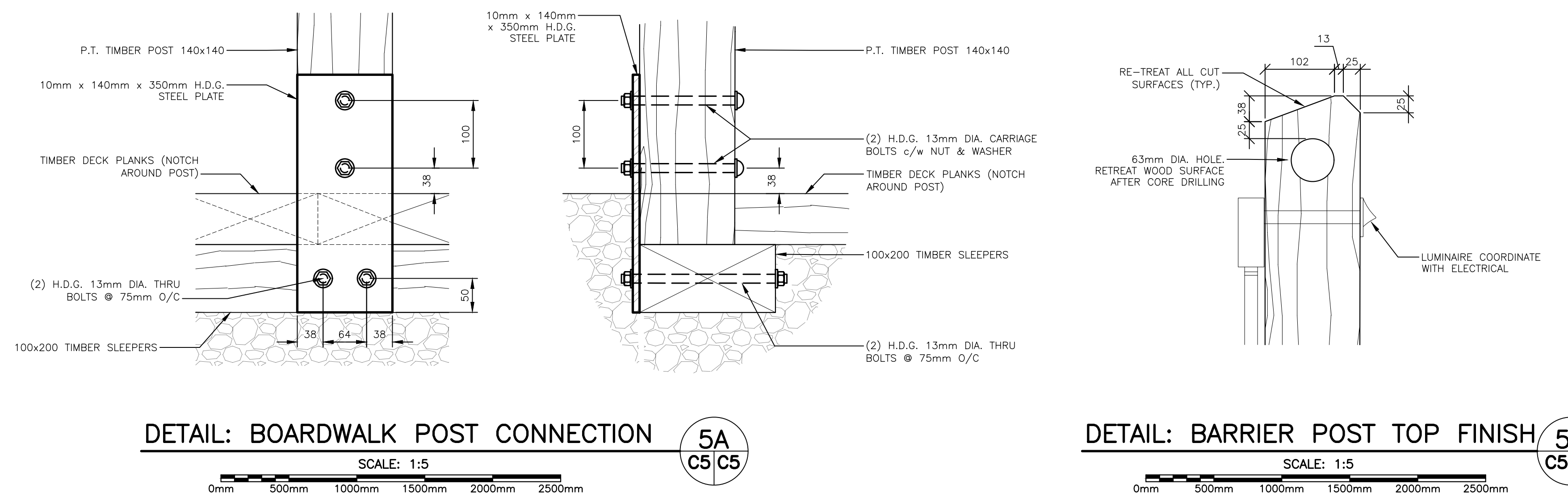
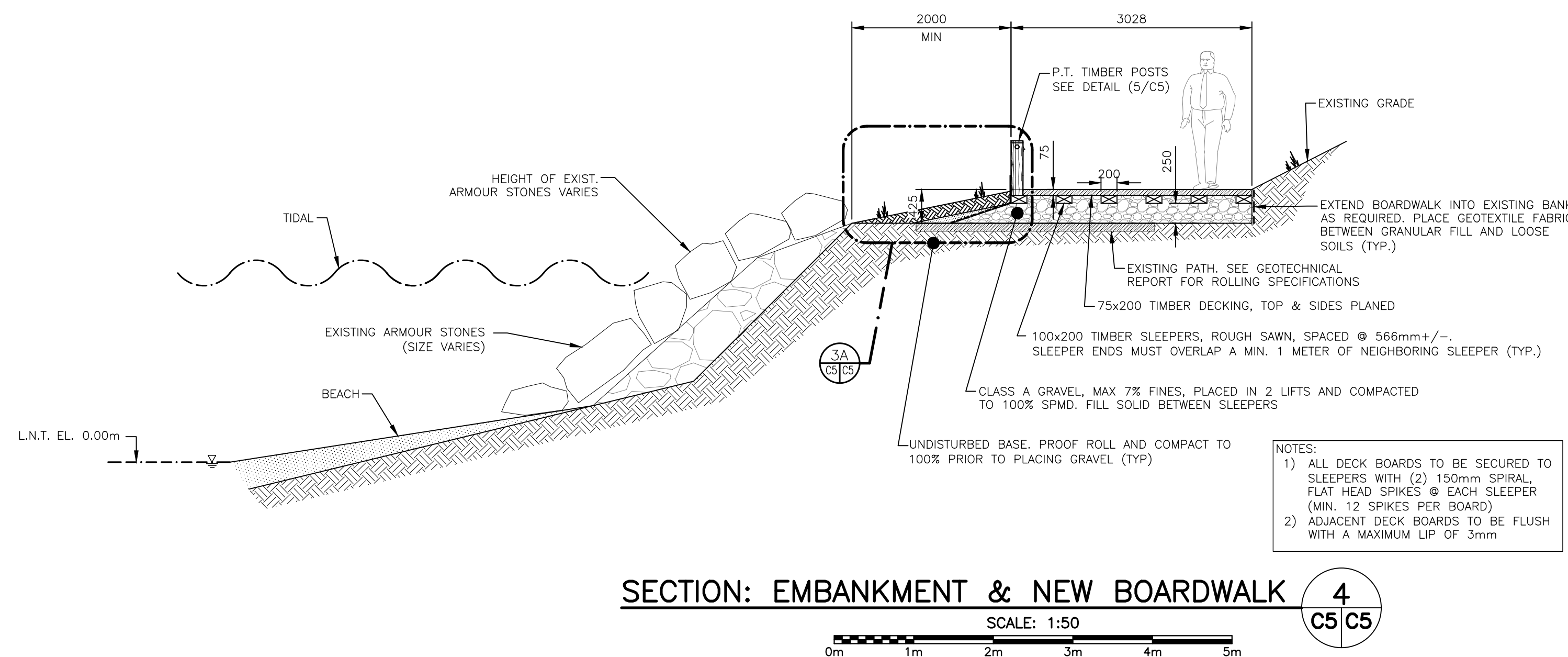
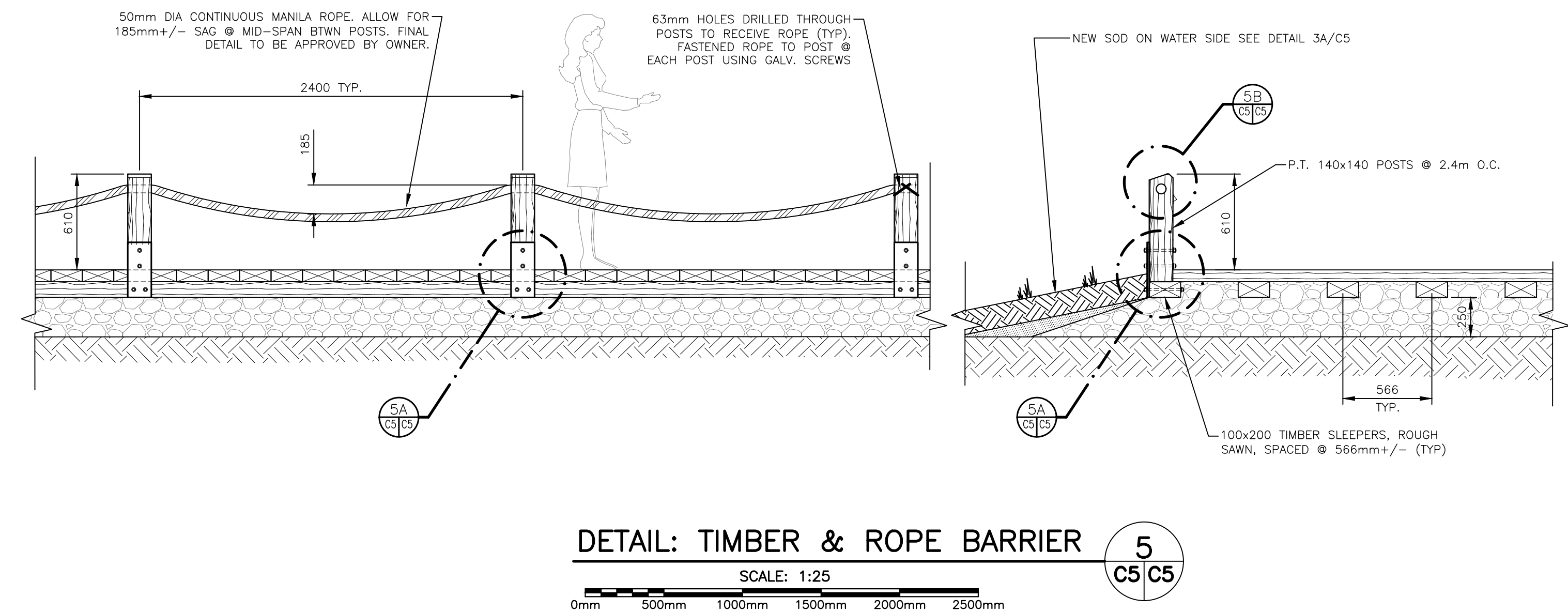
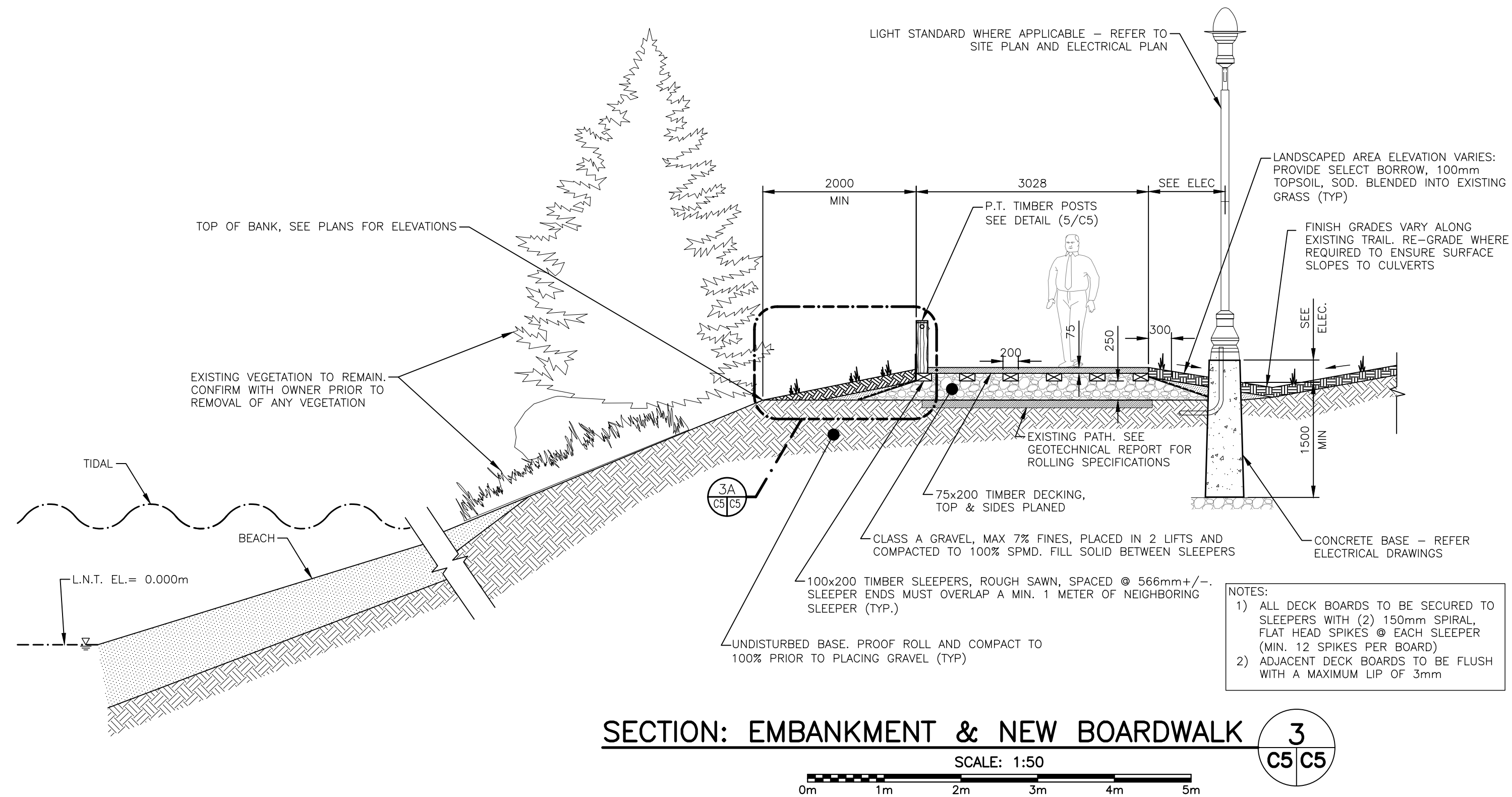
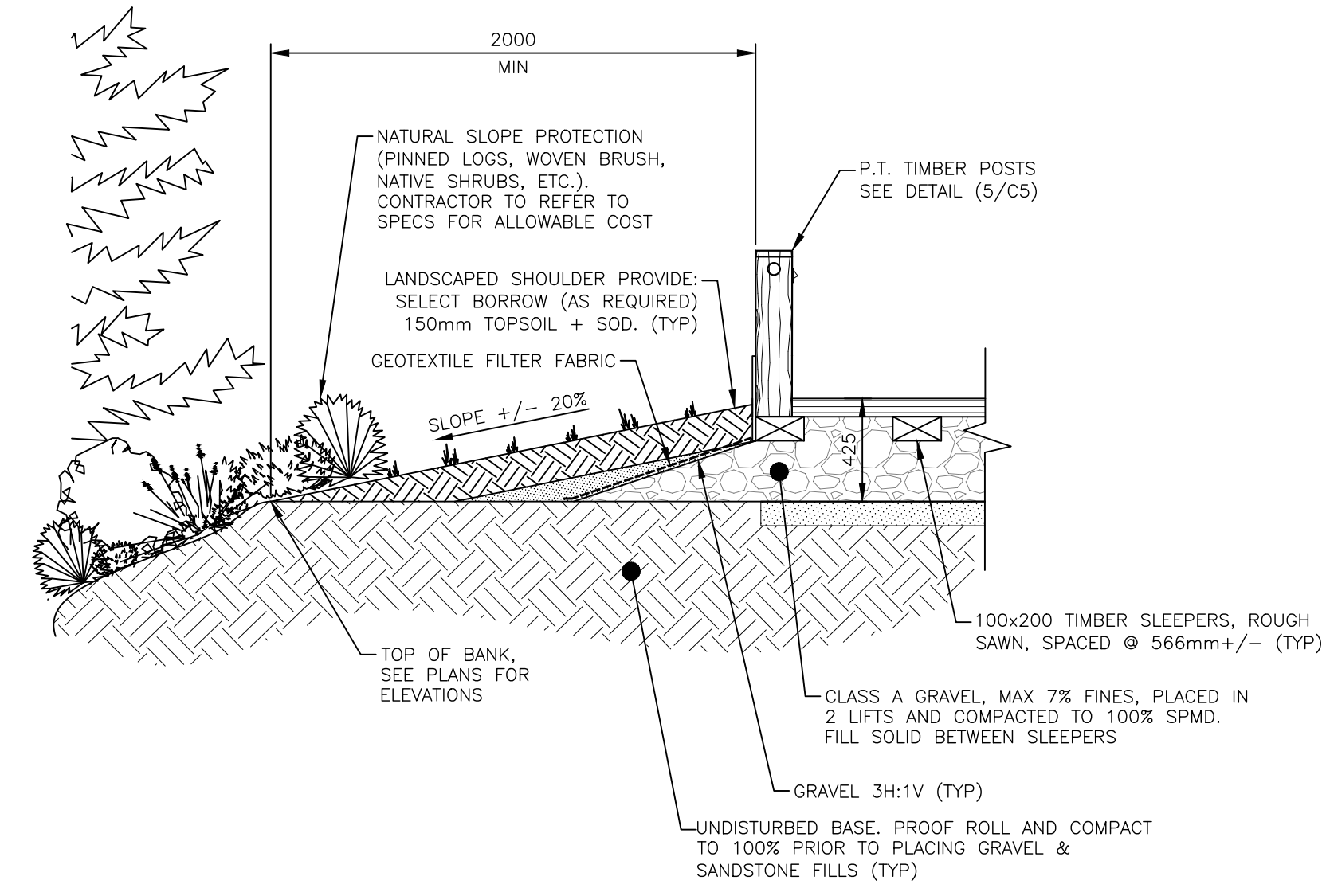
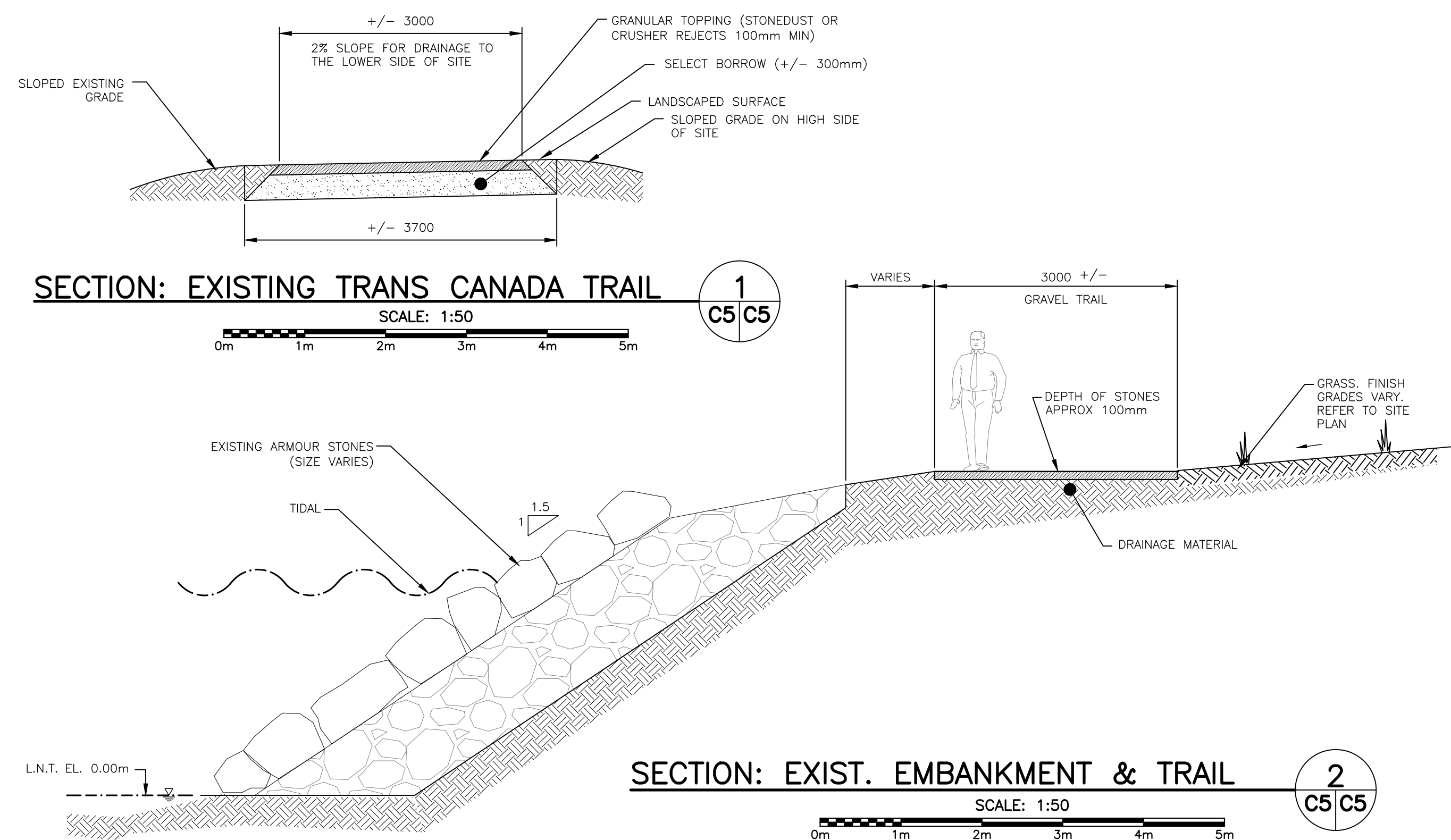


1A PROFILE: BOARDWALK ALIGNMENT #4 (1 OF 2) REFER TO PLAN ON C3 FOR ALIGNMENT LOCATION



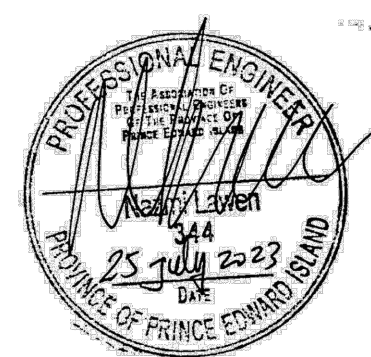
1B PROFILE: BOARDWALK ALIGNMENT #4 (2 OF 2) REFER TO PLAN ON C3 FOR ALIGNMENT LOCATION

No.	Description	Date	Date: 2023-07-25	Revision
0	Issued for Tender	2023-07-25	Drn By: SPB	0
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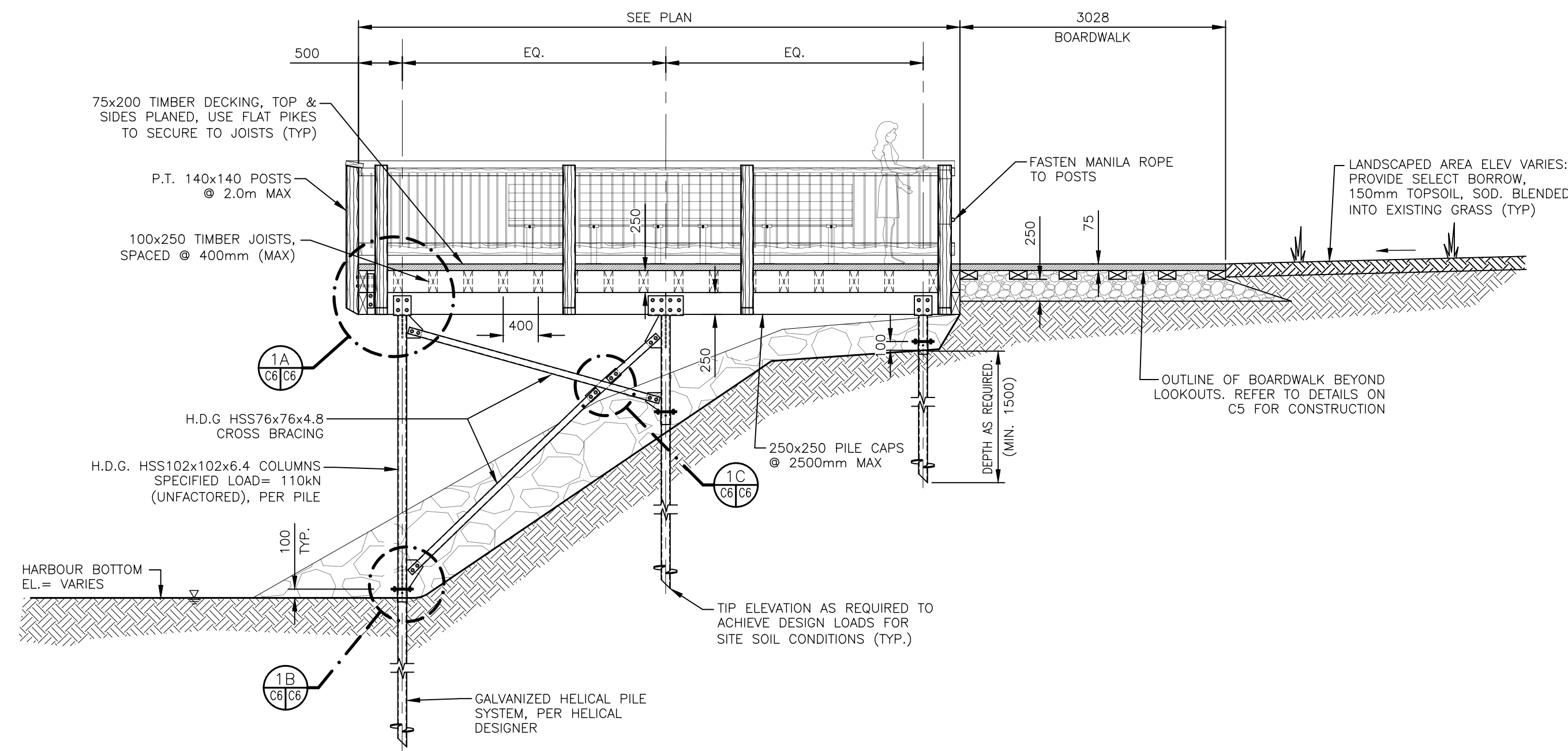


Client
Town of Stratford

Project Title
Stratford Waterfront
Gathering & Event Space

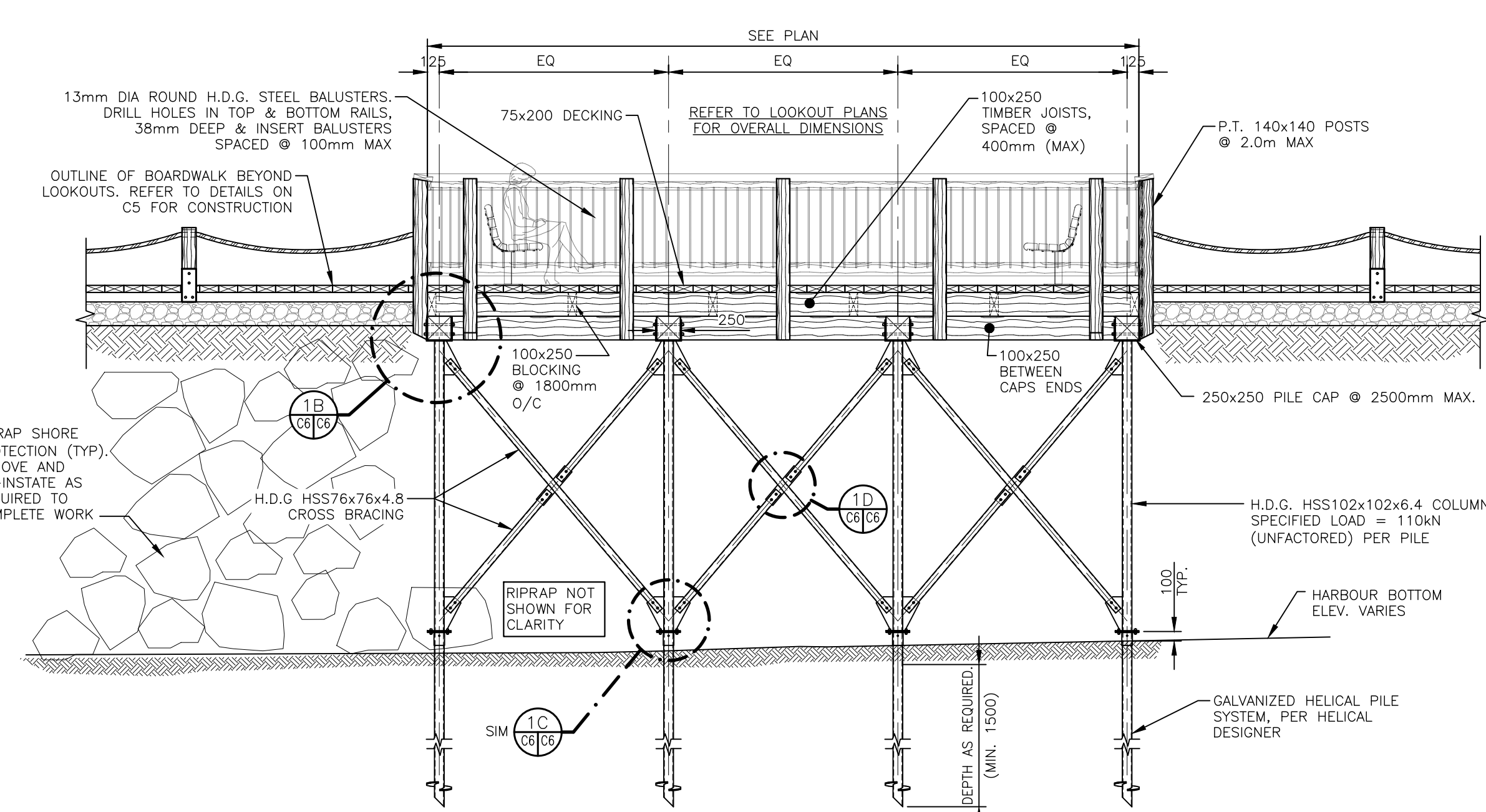
Sheet Title
Boardwalk Sections & Details

No.	Description	Date	Date: 2023-07-25	Revision
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			Chk By: NL, P.Eng	
			Project Number: 221122	
			Drawing Number: C5	



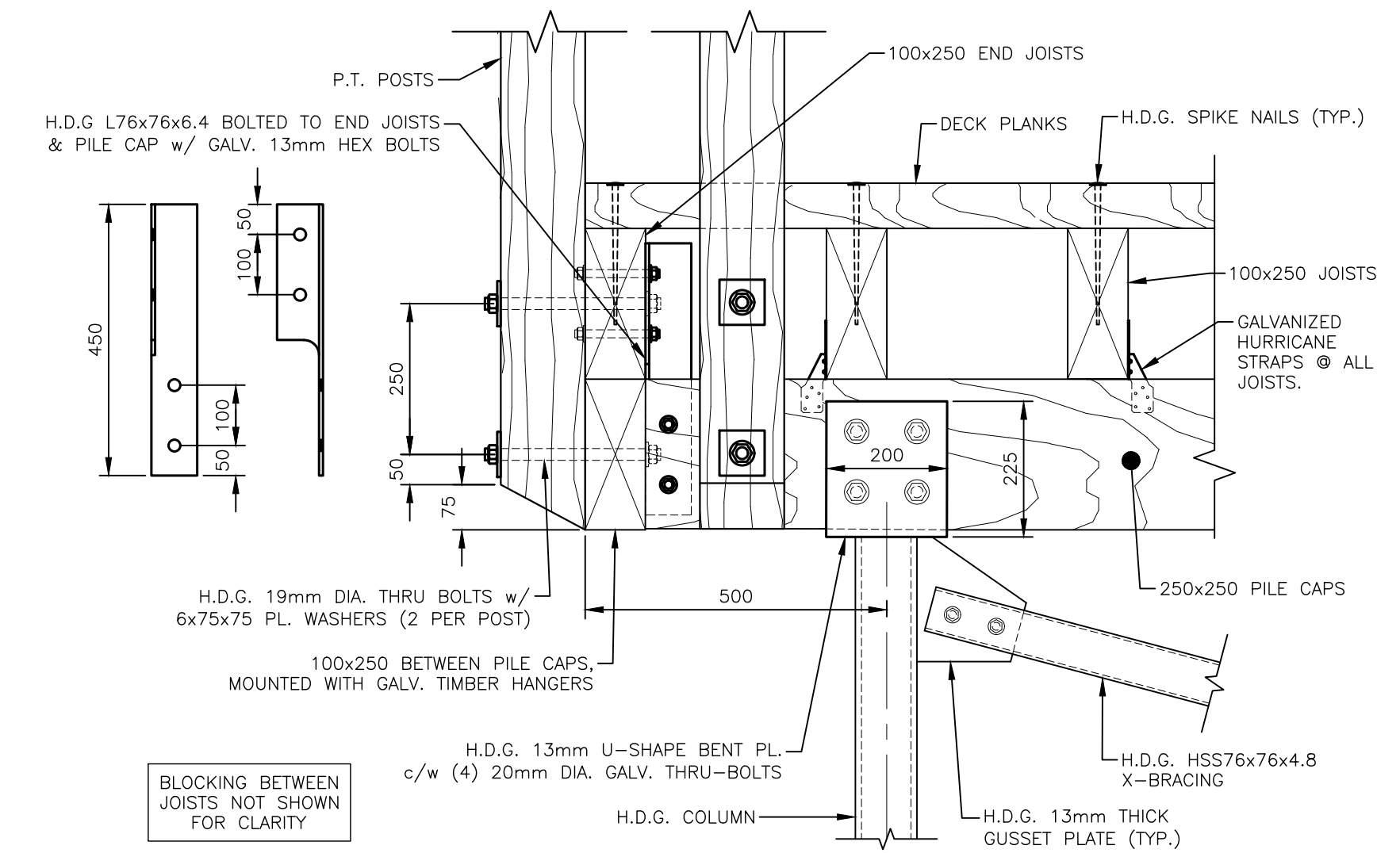
DESIGN LOADS:
 PED/SNOW: 4.8 kPa (100 PSF)
 DEAD LOAD: 2.4 kPa (50 PSF)

ELEVATION: SIDE VIEW OF LOOKOUTS 1
 SCALE: 1:50
 0m 1m 2m 3m 4m 5m

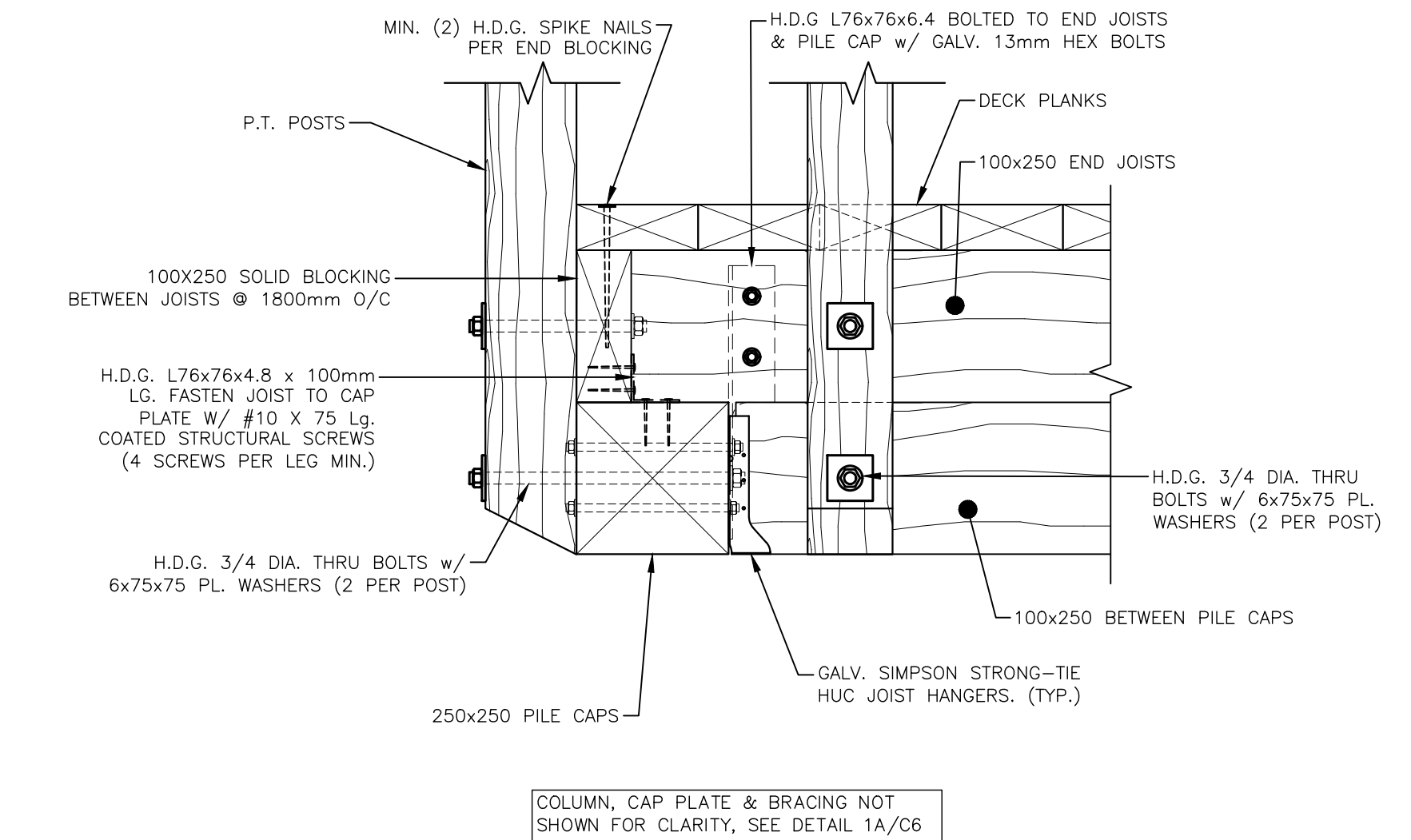


DESIGN LOADS:
 PED/SNOW: 4.8 kPa (100 PSF)
 DEAD LOAD: 2.4 kPa (50 PSF)

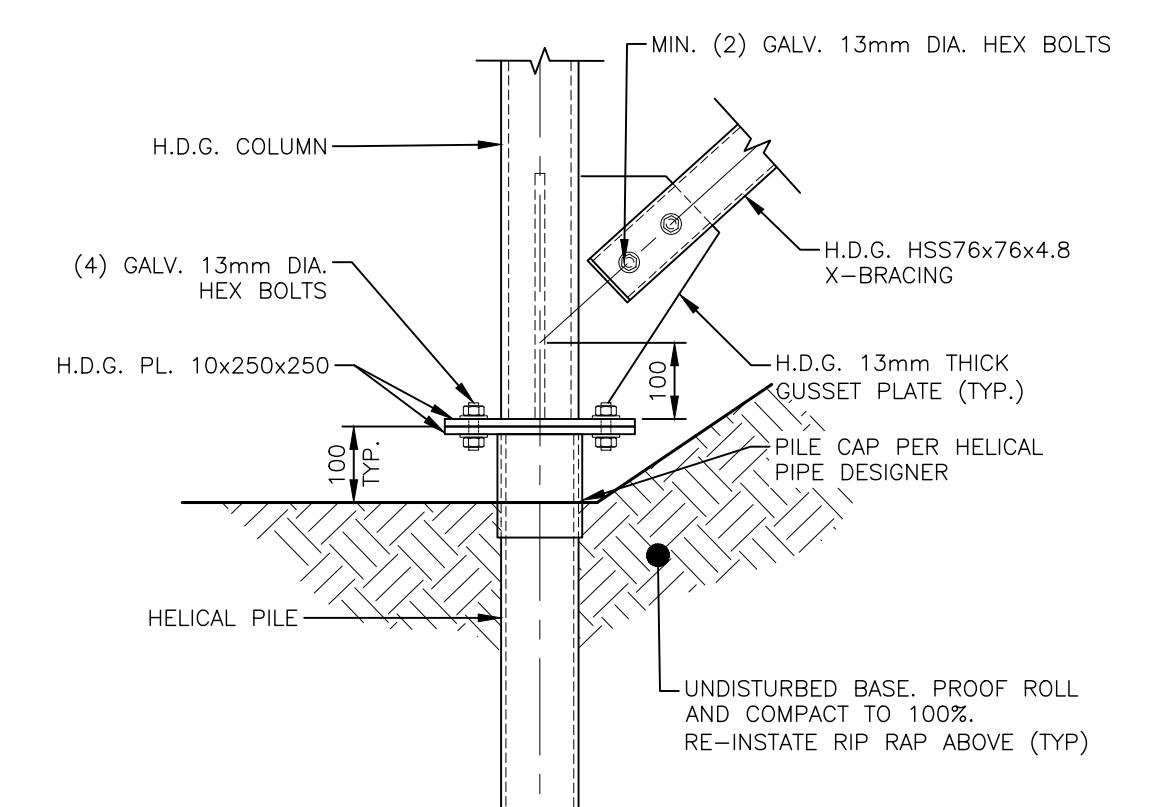
ELEVATION: FRONT VIEW OF LOOKOUTS 2
 SCALE: 1:50
 0m 1m 2m 3m 4m 5m



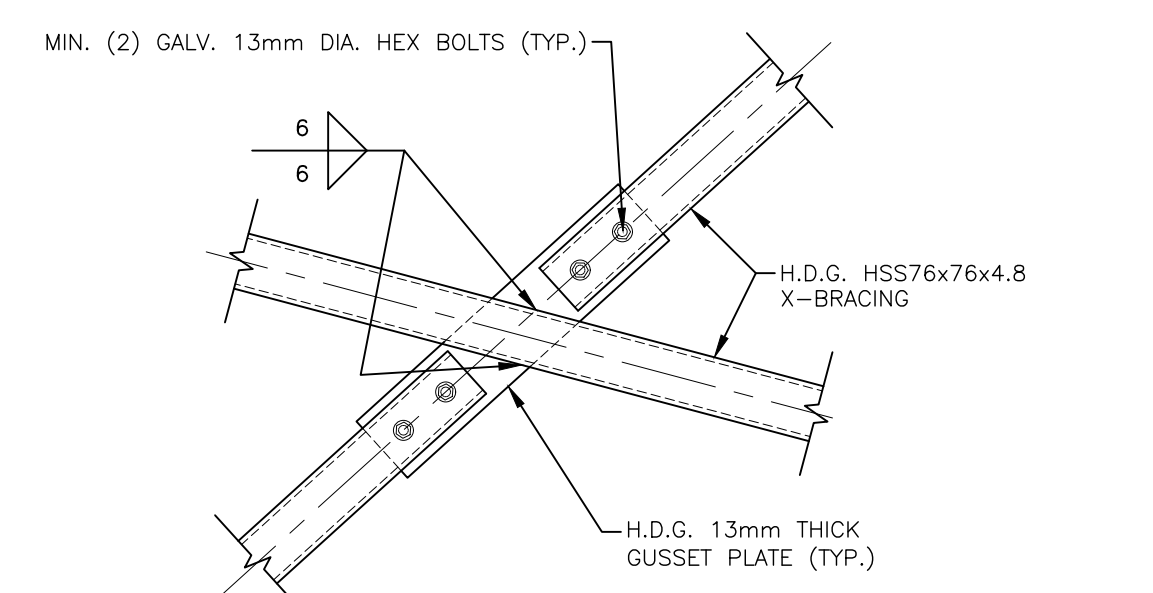
DETAIL: LOOKOUT CAP CONNECTION 1A
 SCALE: 1:10
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



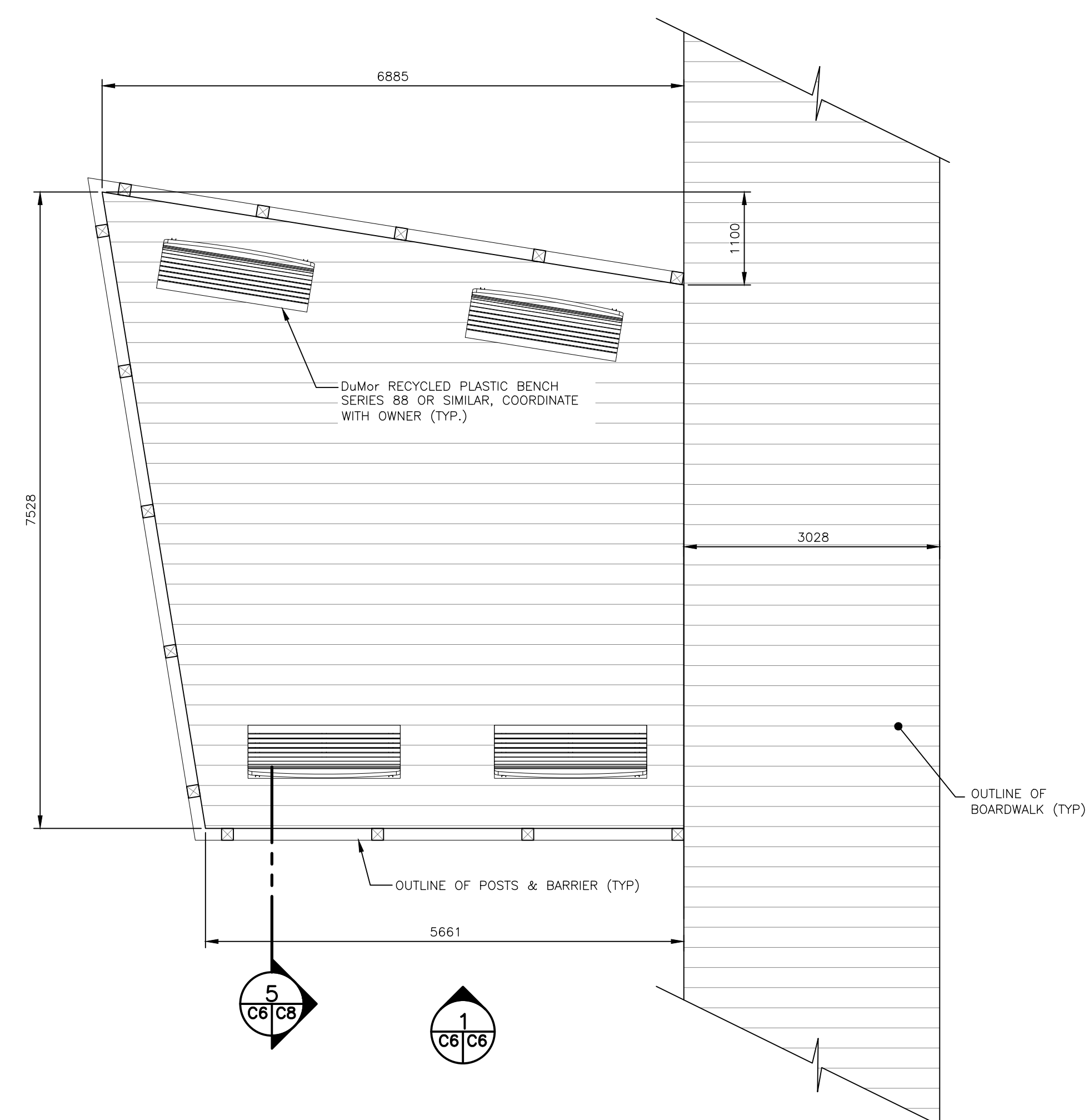
DETAIL: LOOKOUT CAP CONNECTION 1B
 SCALE: 1:10
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



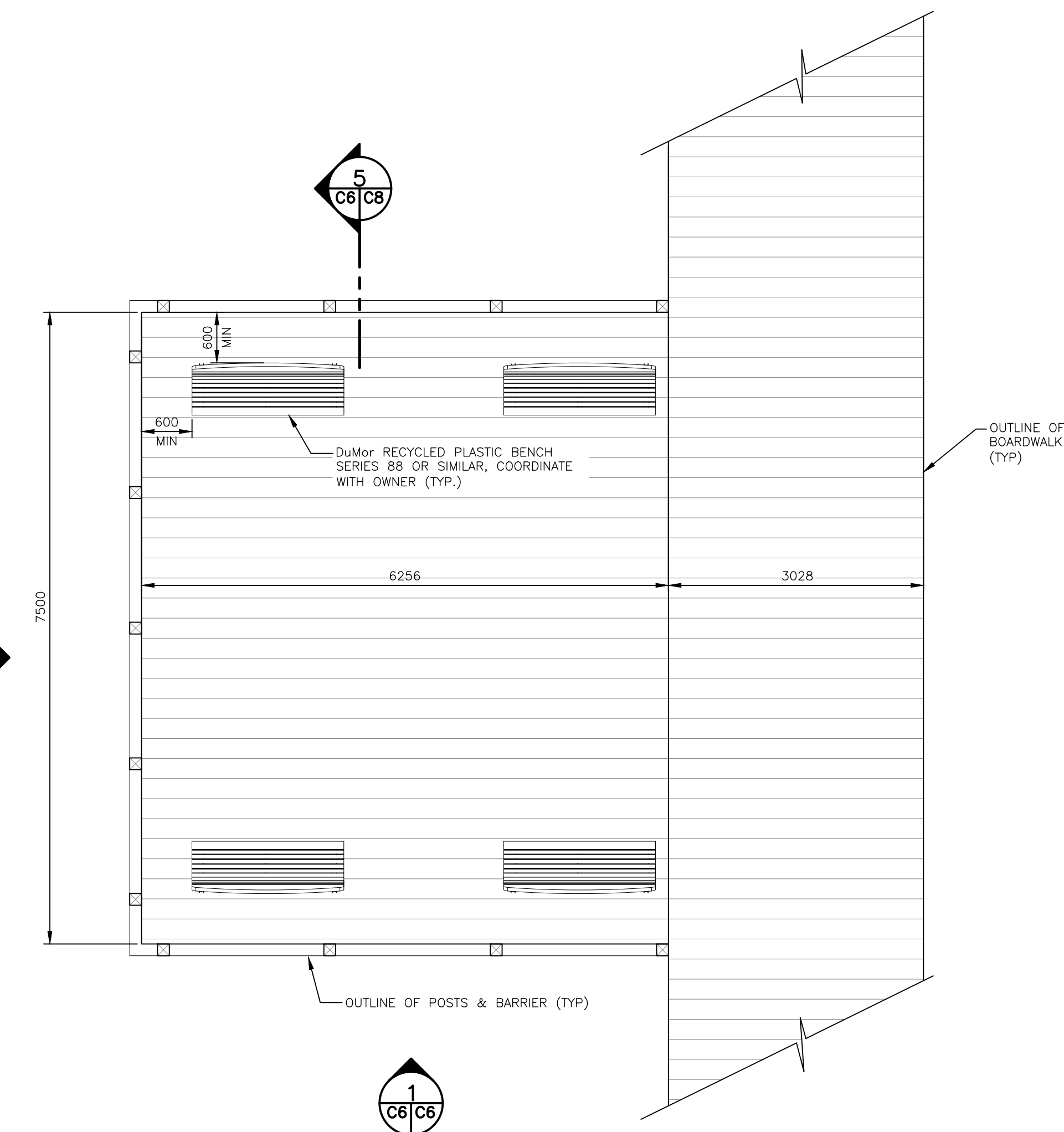
DETAIL: LOOKOUT BASE CONNECTION 1C
 SCALE: 1:10
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



DETAIL: MIDDLE BRACING CONNECTION 1D
 SCALE: 1:10
 0mm 500mm 1000mm 1500mm 2000mm 2500mm



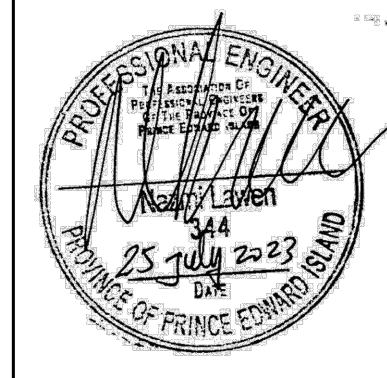
PLAN: LOOKOUT #1 & 2 & BOARDWALK 3
 SCALE: 1:50
 0m 1m 2m 3m 4m 5m



PLAN: LOOKOUT #3 & BOARDWALK 4
 SCALE: 1:50
 0m 1m 2m 3m 4m 5m



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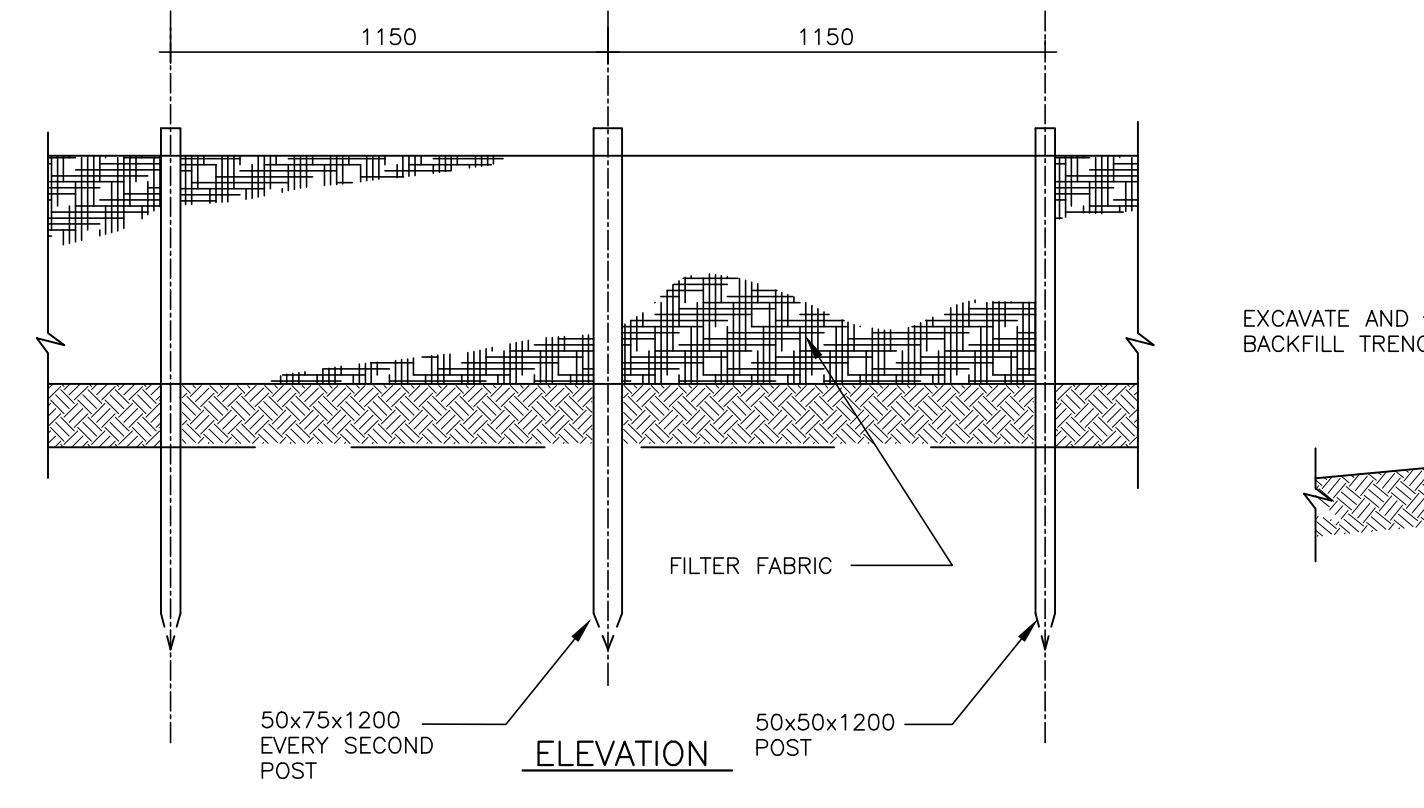


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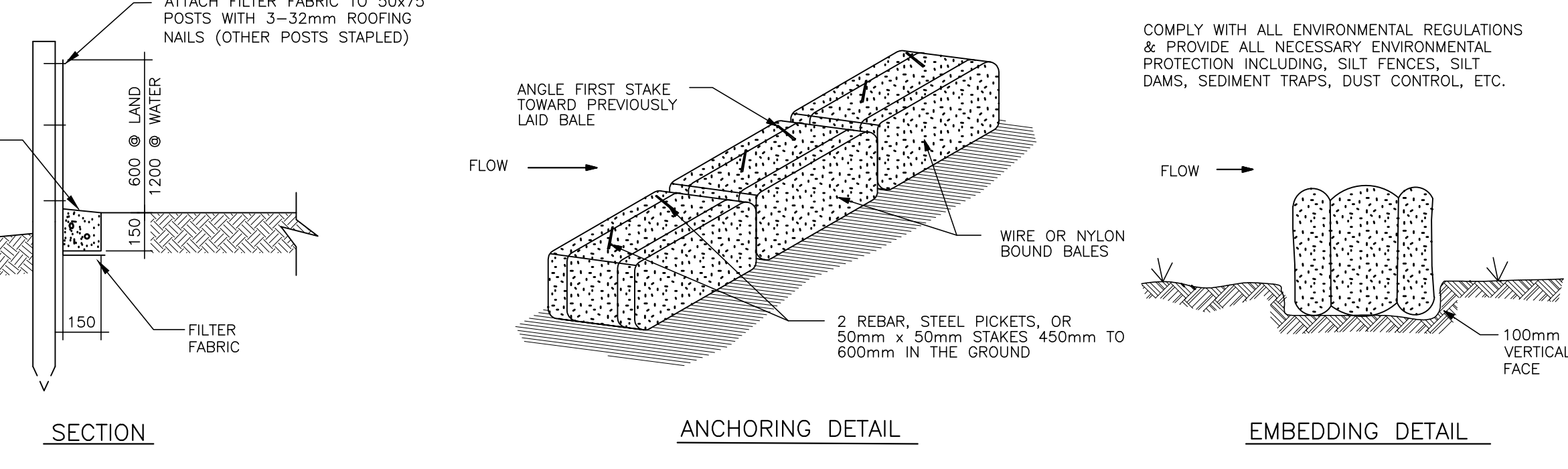
Sheet Title
 Lookout Sections & Details

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			C6	



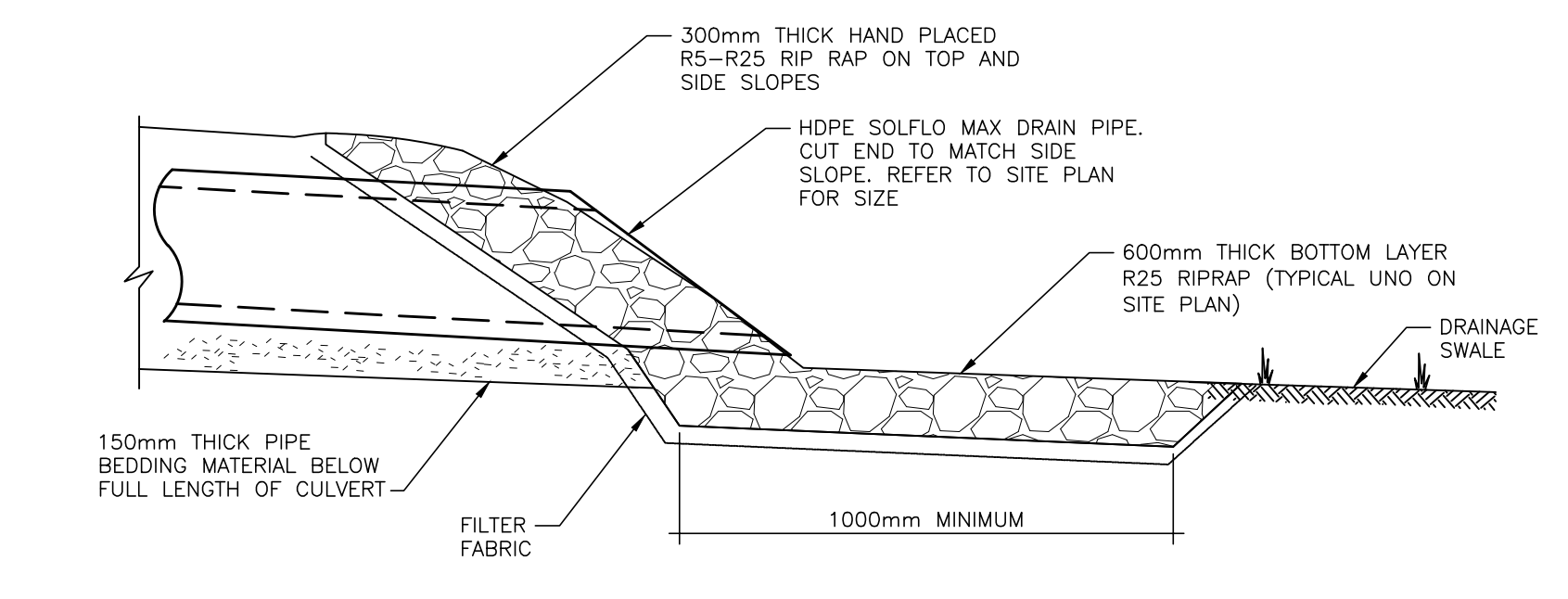
NOTE:
1. CONTRACTOR TO CONTROL EROSION AS PER SITE CONDITIONS. COORDINATE FENCE MATERIAL & EMBED DEPTH WITH GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION

DETAIL: SILT FENCE (TYP) 1
SCALE: NTS
C8/C8

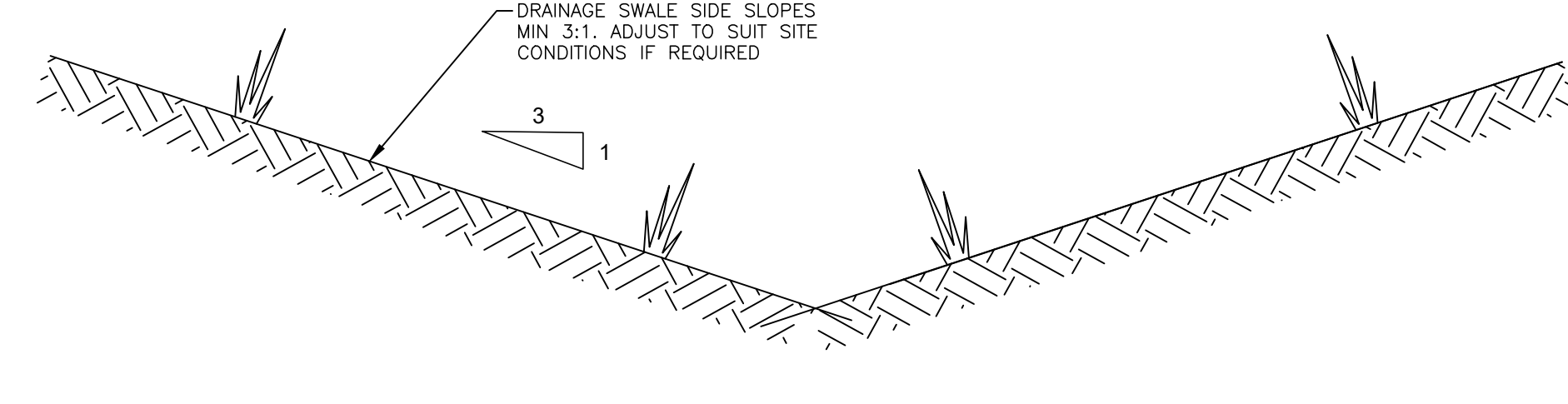


COMPLY WITH ALL ENVIRONMENTAL REGULATIONS & PROVIDE ALL NECESSARY ENVIRONMENTAL PROTECTION INCLUDING, SILT FENCES, SILT DAMS, SEDIMENT TRAPS, DUST CONTROL, ETC.

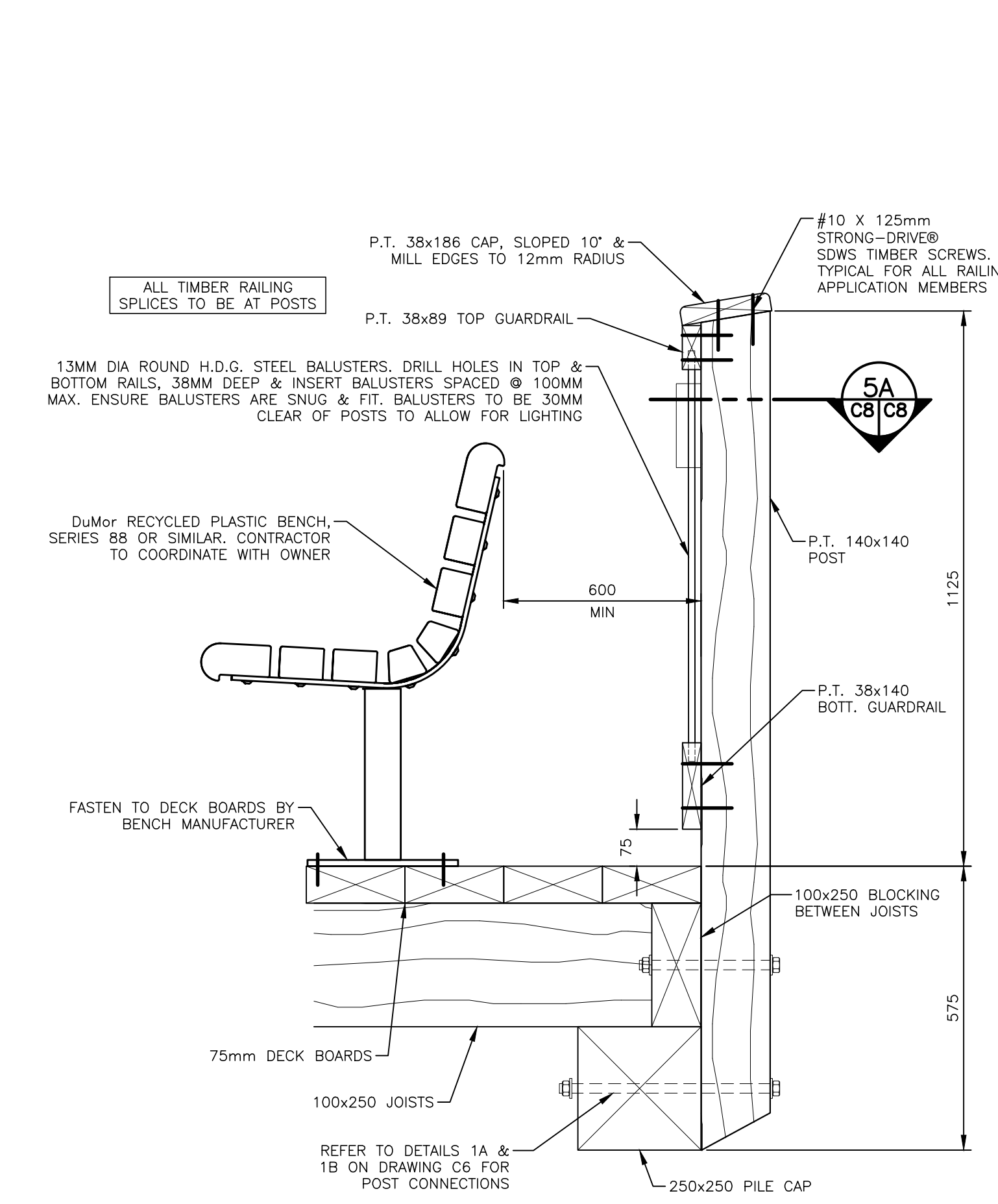
DETAIL: EROSION CONTROL BERM 2
SCALE: NTS
C8/C8



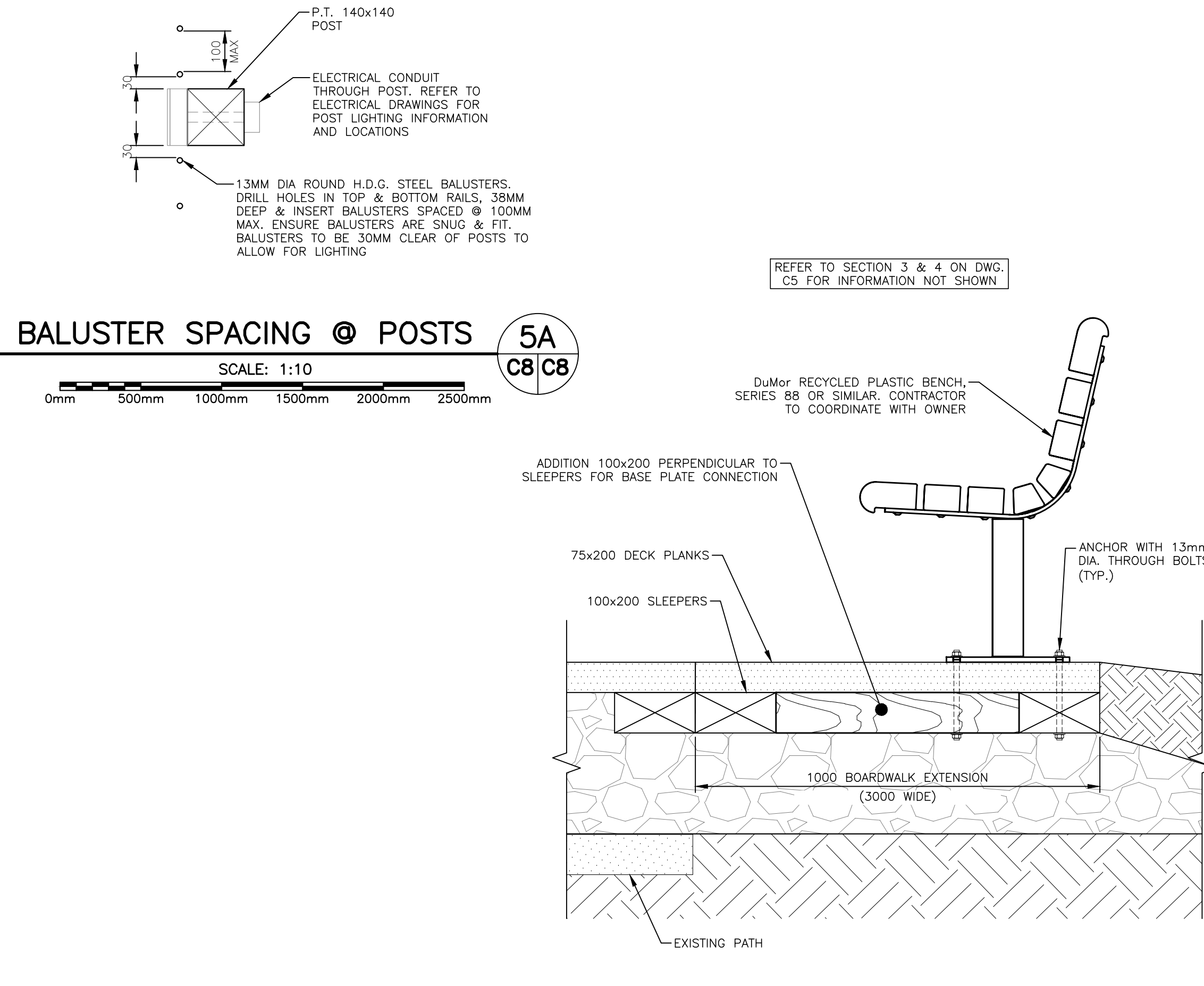
DETAIL: CULVERT END (TYP) 3
SCALE: NTS
C8/C8



DETAIL: DRAINAGE SWALE 4
SCALE: NTS
C8/C8

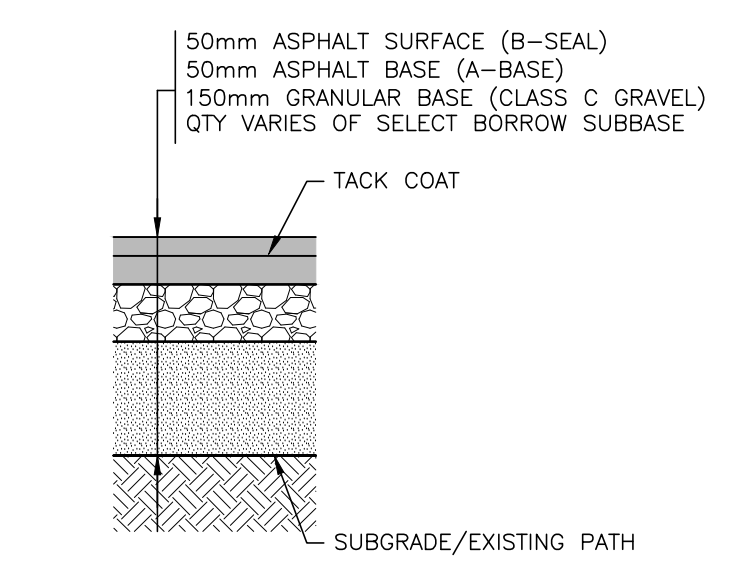
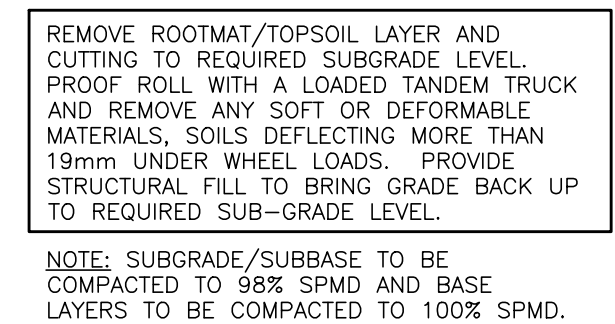


DETAIL: BENCH & RAILING AT LOOKOUT 5
SCALE: 1:10
C8/C8

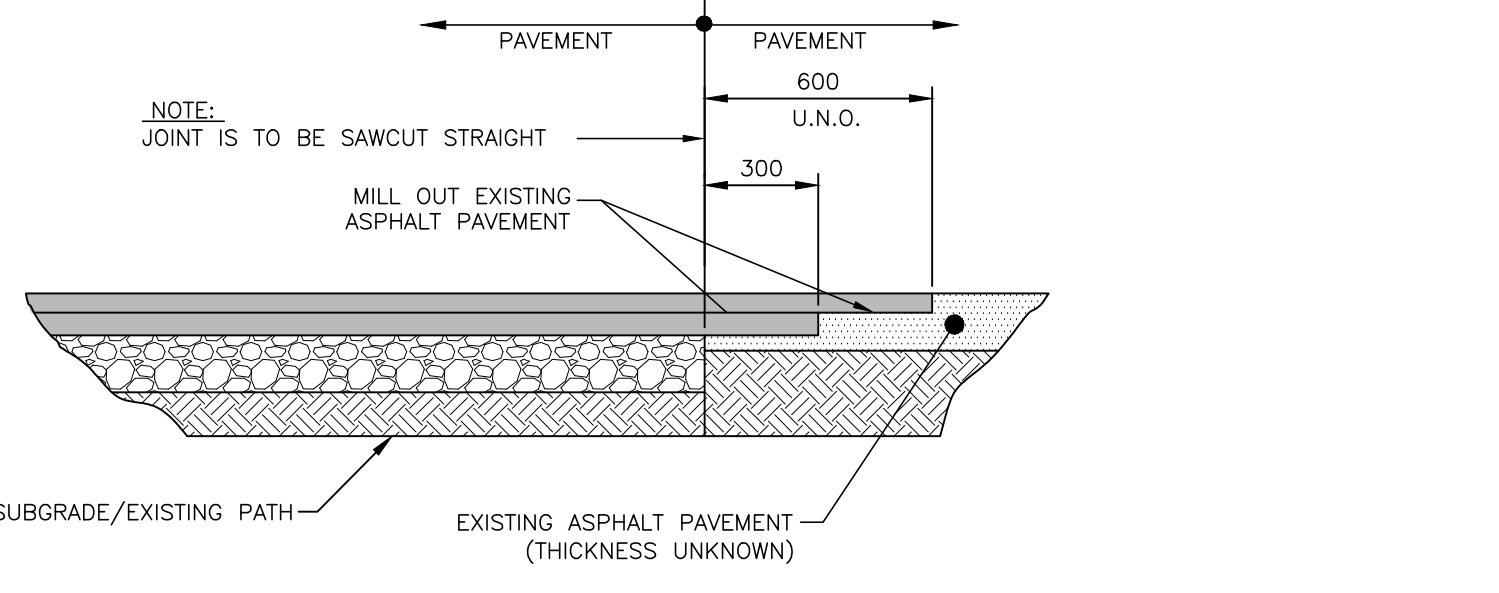


DETAIL: EXTENDED BOARDWALK & BENCH 6
SCALE: 1:10
C8/C8

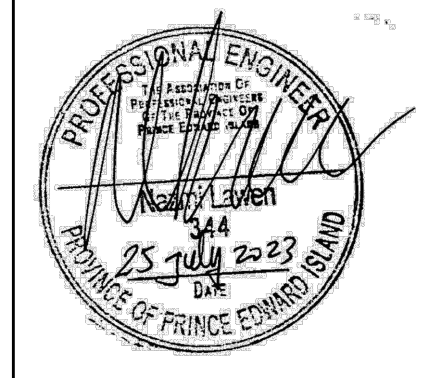
- GENERAL NOTES:**
- WORK EXECUTION: CONTRACTOR SHALL COORDINATE ALL WORK ACTIVITIES & COOPERATE WITH THE OWNER & AGENCIES HAVING JURISDICTION.
 - SITE INSPECTION: CONTRACTOR MUST VISIT THE SITE & BE FAMILIAR WITH EXISTING CONDITIONS.
 - SITE COORDINATION: VERIFY ALL DIMENSIONS & REPORT ANY DISCREPANCIES TO THE CONSULTANT BEFORE PROCEEDING WITH THE WORK.
 - CONSTRUCTION SEQUENCE: TO BE PROPOSED BY THE CONTRACTOR FOR REVIEW BY THE OWNER & CONSULTANT PRIOR TO START OF CONSTRUCTION.
 - UNIT OF MEASURE: ALL DIMENSIONS & ELEVATIONS ARE IN METRIC UNITS.
 - TOPOGRAPHIC SURVEY: TOPOGRAPHIC SURVEY DATA WAS GATHERED & COMPILED BY BERNARD LAND SURVEYORS, PROJECT NO. 22-126, DATED 08 AUG 2022.
 - GEOTECHNICAL INVESTIGATION: A SUBSURFACE INVESTIGATION WAS CARRIED OUT BY JOSSE ENVIRONMENTAL GEOTECH DIVISION, REPORT NO. JEG023, DATA 02 SEPTEMBER 2022. CARRY OUT SITE PREPARATION IN ACCORDANCE WITH REPORT RECOMMENDATIONS.
 - SPECIFICATIONS: THESE DRAWINGS SHALL BE VIEWED IN CONJUNCTION WITH THE CONTRACT DOCUMENTS & SPECIFICATIONS.
 - EXISTING UTILITIES: PRIOR TO COMMENCING WORK, VERIFY EXACT LOCATION & ELEVATIONS OF ALL EXISTING UTILITIES & SERVICES (KNOWN OR NOT SHOWN ON DRAWINGS) IN THE FIELD WITHIN THE CONTRACT LIMIT. INFORMATION SHOWN ON PLANS IS APPROXIMATE ONLY.
 - UNDERGROUND SERVICES: WATER, SEWER, TELEPHONE & POWER SERVICES MAY EXIST BENEATH CITY STREETS. LOCATE ALL SERVICES PRIOR TO START OF CONSTRUCTION. EXERCISE CAUTION IN EXCAVATION & PROTECT FACILITIES FROM DAMAGE. REPAIR DAMAGES AT NO COST TO THE OWNER. WORK SHALL BE CARRIED OUT TO THE SATISFACTION OF THESE AUTHORITIES. CONTACT UTILITIES BEFORE EXCAVATING.
 - TEMPORARY SUPPORT: PROVIDE TEMPORARY SUPPORT TO UTILITY POLES AS REQUIRED BY THE UTILITIES. FINAL LOCATIONS OF RELOCATED UTILITY POLES TO BE CO-ORDINATED ON-SITE BY THE CONTRACTOR & UTILITIES. ENSURE NEW OVERHEAD WIRE PATHS MEET ALL REQUIRED CLEARANCES TO OHMS REGULATIONS.
 - CODES & STANDARDS: ALL WORK SHALL BE IN ACCORDANCE WITH THE 2015 NATIONAL BUILDING CODE OF CANADA & APPLICABLE STANDARDS. ALL SOIL MATERIALS AND PAVEMENT TO CONFORM TO THE DEPT OF TRANSPORTATION AND INFRASTRUCTURE GENERAL PROVISIONS CONTRACT SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 - REGULATIONS: PERFORM WORK & COMPLY WITH ALL FEDERAL, PROVINCIAL & MUNICIPAL BYLAWS AND REGULATIONS.
 - MATERIAL TESTING: CONTRACTOR TO RETAIN THE SERVICES OF CERTIFIED MATERIAL TESTING LABORATORY TO TEST SOIL, CONCRETE, PAVEMENT & OTHER MATERIAL AS PER APPLICABLE STANDARDS.
 - TRAFFIC: MAINTAIN TWO WAY TRAFFIC ON CITY STREETS AT ALL TIMES DURING THIS CONTRACT.
 - SIGNS & BARRICADES: PROVIDE SIGNS, BARRICADES, FLAGGERS, TRAFFIC CONTROL AS REQUIRED TO ENSURE SAFETY TO WORKERS & PUBLIC.
 - TEMPORARY UTILITIES: CONTRACTOR IS FINANCIALLY RESPONSIBLE FOR SUPPLY & MAINTENANCE OF TEMPORARY SANITARY FACILITIES, WATER SUPPLY, ELECTRICAL & OTHER SERVICES REQUIRED DURING THE CONSTRUCTION.
 - TEMPORARY FACILITIES: WHERE REQUIRED, PROVIDE TEMPORARY SECURE FACILITIES TO STORE MATERIAL & EQUIPMENT DURING CONSTRUCTION PERIOD.
 - EXCAVATION & BACKFILLING: ALL MATERIAL AND EXCAVATION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE PEI DEPT OF TRANSPORTATION & INFRASTRUCTURE GENERAL PROVISIONS AND CONTRACT SPECIFICATIONS FOR HIGHWAY CONSTRUCTION.
 - TRENCHES: ALL TRENCHES WITHIN CITY RIGHT OF WAYS MUST BE BACKFILLED AT THE END OF EACH DAY.
 - ASPHALT PAVEMENT: ALL MATERIAL EXECUTION SHALL BE IN ACCORDANCE WITH PEI DTI SPECIFICATIONS. REINSTATE DISTURBED ASPHALT PAVEMENT DAMAGED BY WORK OF CONTRACT.
 - TOPSOIL AND SOODING: APPLY 6" TOPSOIL TO SURFACES TO BE LANDSCAPED & SOOD. REPAIR & REINSTATE ALL DISTURBED GRASS & LANDSCAPED AREAS DAMAGED BY WORK OF CONTRACT.
 - REINSTATEMENT: REPAIR & REINSTATE ALL DISTURBED SURFACES, GRASSES & LANDSCAPED AREAS, SIGNS, ETC. DAMAGED BY WORK OF CONTRACT INCLUDING ALL AREAS IMPACTED BEYOND LIMIT OF CONTRACT.
 - CLEANING: CLEAN ALL NEW & EXISTING SURFACES. EQUIPMENT MATERIAL WITHIN THE LIMIT OF THE CONTRACT TO THE SATISFACTION OF THE OWNER & CONSULTANT.
 - WASTE MANAGEMENT: REMOVE & DISPOSE OF ALL WASTE MATERIAL IN A SAFE MANNER AT APPROVED DISPOSAL SITES.
- ENVIRONMENTAL PROTECTION NOTES:**
- INSTALLATION OF ENVIRONMENTAL CONTROLS SHALL BE A FIRST STEP IN THE CONSTRUCTION SEQUENCE. THEIR DESIGN, INSTALLATION AND MAINTENANCE SHALL BE AS PER PEI DTI ENVIRONMENTAL PROTECTION PLAN & PROJECT SPECIFICATIONS.
 - CONSTRUCT & INSTALL AT TOE OF SLOPE AROUND PERIMETER OF ALL TEMPORARY & PERMANENT CONSTRUCTION AREAS INCLUDING AROUND STOCKPILES OF FILL, SILT FENCES & EROSION CONTROL DEVICES. ALL ENVIRONMENTAL CONTROLS (E.G. SILT FENCING, CHECK DAMS, SEDIMENT COLLECTION PONDS, ETC.) SHALL BE IN PLACE PRIOR TO, DURING AND AFTER PROJECT ACTIVITIES TO AVOID MIGRATION OF SILT OFF SITE.
 - ENSURE THAT RUNOFF IS DIRECTED THROUGH SEDIMENT COLLECTION PONDS.
 - INSTALL A LAYER OF MULCH OR AN EROSION CONTROL BLANKET TO ALL EXPOSED SLOPES THAT IS NOT IMMEDIATELY UNDER CONSTRUCTION APPLIED & MAINTAINED UNTIL THE AREA IS READY TO BE COMPLETED, SHARPED AND STABILIZED WITH SEEDING, SOO OR RIP-RAP.
 - THE CONTRACTOR IS TO HAVE ON HAND, THE APPROPRIATE EMERGENCY RESPONSE PHONE NUMBERS AND CONTACTS TO ALERT THE APPROPRIATE AUTHORITIES OF POSSIBLE CONTAMINATION SHOULD A SPILL OCCUR. MAINTAIN PROPER SPILL KIT ON SITE.
- STEEL NOTES:**
- ALL MISCELLANEOUS STEEL SHALL CONFORM TO THE LATEST ISSUE OF CSA G40.21 WITH A YIELD STRENGTH OF 350 MPa.
 - ALL STEEL SECTIONS SHALL BE CUT FROM FULL LENGTH STOCK OR ORDERED CUT TO LENGTH.
 - ALL STEEL COMPONENTS SHALL BE HOT DIPPED GALVANIZED (Z70G12).
- TIMBER NOTES:**
- ALL WOOD STRUCTURAL MEMBERS, ASSEMBLIES AND FASTENERS SHALL CONFORM TO THE REQUIREMENTS OF CSA STANDARD 086.1 (LATEST EDITION).
 - ALL LUMBER SHALL BE IDENTIFIED BY THE GRADE MARK IN ACCORDANCE WITH THE MARKING PROVISIONS OF CSA STANDARD D141.
 - ALL LUMBER (U.N.O.) SHALL BE PRESSURE TREATED STRUCTURAL GRADE DRY (SPF NO. 1) MINIMUM MOISTURE CONTENT NOT GREATER THAN 19% AT INSTALLATION.
 - ALL PLYWOOD SHALL BE EXTERIOR GRADE DOUGLAS FIR PLYWOOD TO CSA 0121 AND MANUFACTURED WITH WATERPROOF GLUE.
 - ALL FASTENERS AND METAL IN CONTACT WITH PRESSURE TREATED LUMBER SHALL BE HOT DIPPED GALVANIZED OR APPROVED EQUAL.
 - ALL BOARDWALK TIMBER SHALL BE MARINE GRADE PRESSURE TREATED EASTERN HEMLOCK (U.N.O.) MINIMUM NO.1 GRADE.
 - ROUGH SAW LUMBER MAY NOT EXCEED LIPS GREATER THAN 3mm OF ADJACENT BOARDS, TO ENSURE NO TRIPPING HAZARDS ARE PRESENT AFTER CONSTRUCTION IS COMPLETE.
 - ALL MODIFIED PRESSURE TREATED LUMBER (CUT, COATED, NOTCHED, ETC.) MUST RECEIVE A MINIMUM OF TWO COATS OF WOOD PRESERVATION PRIOR TO INSTALLATION.
- CONCRETE:**
- ALL CONCRETE IN ACCORDANCE WITH CSA A23.1 AND NBCC. MIX DESIGN: TYPE 10 PORTLAND CEMENT MINIMUM COMPRESSIVE STRENGTH 32MPa @ 28 DAYS:
 - CLASS OF EXPOSURE: C-2
 - NOMINAL AGGREGATE SIZE: 20mm
 - SUMP: 80mm @ 20
 - AIR CONTENT: 6%-8%
 - ALL TESTING SHALL CONFORM TO CSA A23.2. RECORD TESTS FOR SLUMP, AIR CONTENT AND COMPRESSIVE STRENGTH.
 - NO CONCRETE SHALL BE POURED WITHOUT THE PRIOR KNOWLEDGE AND APPROVAL OF ENGINEER.
 - CONCRETE PROTECTIVE COVER (EXCEPT AS NOTED):
 - POURED AGAINST GROUND: 3" (75mm)
 - FORMED SURFACE AGAINST GROUND: 2" (50mm)
 - FORMED SURFACE EXPOSED TO WEATHER: 2" (50mm)
- CONSTRUCTION SCHEDULE:**
- THE CONSTRUCTION ACTIVITIES SHALL START AS SOON AS AUTHORIZED AND CONTRACT IS AWARDED.
 - CONSTRUCTION SHALL BE SUBSTANTIALLY COMPLETED ON OR BEFORE 01 JULY 2023.
 - REFER TO REQUIREMENTS OF ENVIRONMENTAL PERMIT
- GENERAL REQUIREMENTS:**
- EROSSIBLE SOIL SHALL NOT REMAIN EXPOSED FOR LONGER THAN ABSOLUTELY NECESSARY.
 - WORK WILL BE COMPLETED AS SOON AS POSSIBLE, AND WILL BE SUSPENDED DURING AND IMMEDIATELY AFTER INTENSE RAINSTORMS AND DURING PERIOD OF HIGH RAINFALL.
 - WITHIN 48 HRS OF DOING DITCHING WORK, OR AS DIRECTED BY THE ENGINEER, ALL EXPOSED SOILS WILL BE EITHER SEEDING OR RECEIVE STRAWHAY MULCH APPLICATION.
 - DITCHING SHALL NOT BE DONE PRIOR TO MAY 1 OR AFTER SEPTEMBER 30 WITHOUT WRITTEN APPROVAL FROM EHS.
 - EFFORTS TO REDUCE THE TURBIDITY OF WATER PUMPED FROM WORK AREAS SHALL BE IMPLEMENTED PRIOR TO FINAL DISCHARGE, THROUGH THE USE OF FILTRATION THROUGH VEGETATION, EROSION CONTROL DEVICES SUCH AS SEDIMENT COLLECTION PONDS, CHECK DAMS OR OTHER DEVICES.
- EROSION & SEDIMENT CONTROL MEASURES:**
- DO NOT REMOVE OR DISTURB ANY VEGETATION BEYOND THE LIMITS OF WORK.
 - STABILIZE ACCESS ROADS AS SOON AS POSSIBLE AFTER BEING DISTURBED.
 - EROSION CONTROL MEASURES MUST BE CHECKED AND MAINTAINED ON A REGULAR BASIS (DAILY AND AFTER HEAVY RAINFALL).
 - ALL MEASURES SHALL BE TAKEN BY THE CONTRACTOR TO MINIMIZE THE TRANSPORT OF SEDIMENT FROM THE CONSTRUCTION SITE.
 - ANY MUD OR DEBRIS THAT IS CARRIED OFFSITE AND ONTO THE PUBLIC ROADWAY MUST BE CLEANED OFF AT THE END OF EACH WORKDAY.
 - FAILURE TO COMPLY WITH THE EROSION AND SEDIMENTATION CONTROLS MAY RESULT IN A STOP WORK ORDER UNTIL ADEQUATE MEASURES HAVE BEEN CORRECTED.
 - EROSION CONTROL MEASURES SHALL NOT BE REMOVED UNTIL THE SITE IS STABLE AND VEGETATION IS ESTABLISHED, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
 - A SPILL CONTAINMENT KIT SHALL BE ON SITE AT ALL TIMES WHILE HEAVY EQUIPMENT IS ON SITE.
 - ANY CONCERNS OR EMERGENCIES RELATED TO EROSION AND SEDIMENTATION FROM THE SITE SHALL BE DIRECTED TO THE ENGINEER.
- STRAW BALE CHECK DAMS:**
- PROVIDE STRAW BALE CHECK DAMS FOR DITCHES WITH LESS THAN 2% GRADIENTS.
 - SILT FENCES AND BARRIERS SHOULD BE INSPECTED FOR BRICKS AFTER EACH RAINFALL AND AT LEAST DAILY DURING PERIODS OF PROLONGED RAINFALL.
- RIPRAP CHECK DAMS:**
- PROVIDE RIPRAP CHECK DAMS FOR DITCHES WITH STEEP THAN 2% GRADIENTS.
 - CHECK DAMS TO REMAIN IN A FUNCTIONAL CONDITION UNTIL THE GRASS ON SEEDSLOPES IS SUFFICIENTLY ESTABLISHED TO BE AN EFFECTIVE DETRIMENT TO SEDIMENT RUNOFF. SEDIMENT DEPOSITS SHALL BE REMOVED BEFORE THE LEVEL OF SEDIMENTATION REACHES A POINT WITHIN 100mm OF THE CREST OF THE OVERFLOW NOTCH.
- SEDIMENT TRAPS / PONDS:**
- SEDIMENT TRAPS AND SEDIMENT COLLECTION PONDS SHALL BE CONSTRUCTED PRIOR TO INITIAL GRUBBING AND EXCAVATION OF A WORK SITE AND SHALL REMAIN IN USE UNTIL THE DISTURBED AREA IS PROTECTED AGAINST EROSION BY PERMANENT STABILIZATION.
 - SEDIMENT TRAPS / PONDS SHALL BE SIZED FOR A MINIMUM STORAGE VOLUME OF 75 CM PER HECTARE OF CONTRIBUTING DISTURBED AREA. THIS MAY RESULT IN MULTIPLE SEDIMENT TRAPS/PONDS THROUGHOUT THE DEVELOPMENT AREA.
 - WHEN A PERMANENT STORM WATER DETENTION POND WILL BE CONSTRUCTED FOR THE SUBDIVISION, 50% OF THE STORAGE VOLUME FROM THE SEDIMENT TRAPS/PONDS SHALL BE LOCATED IMMEDIATELY UPSTREAM OF THE DETENTION POND TO MINIMIZE THE AMOUNT OF SEDIMENT BUILD-UP IN THE DETENTION POND. THE REMAINDER OF THE STORAGE VOLUME OF THE SEDIMENT TRAPS/PONDS MAY BE LOCATED THROUGHOUT THE DEVELOPMENT AREA WITHIN THE DITCHES.
 - SEDIMENT TRAPS AND SEDIMENT COLLECTION PONDS SHALL BE INSPECTED REGULARLY AND AFTER RAINFALLS OF 5mm OR MORE. ANY DAMAGED AREAS SHALL BE REPAIRED.
- SOIL STABILIZATION:**
- TOP AND OUTSIDE OF SLOPES OF THE EARTHEN EMBANKMENTS SHALL BE HYDRO SEEDING AND COVERED WITH JUTE MAT IMMEDIATELY AFTER INSTALLATION.
 - SEEDING SHALL BE CARRIED OUT WITHIN 48 HRS OF COMPLETING SURFACE PREPARATION, OR AS SOON AS POSSIBLE AFTER COMPLETING SURFACE PREPARATION IN STEEP AREAS, SUCH AS ROAD SIDE SLOPES. THE SEED MUST BE COVERED WITH MULCH OR AN EROSION CONTROL MAT SO THAT THE SEED REMAINS IN PLACE DURING ITS GERMINATION PERIOD.
 - MULCHED AREAS SHALL BE INSPECTED REGULARLY AND AFTER RAIN OF 5mm OR MORE ACCUMULATION. REPAIR AS REQUIRED UNTIL THE AREA HAS STABILIZED.
 - SOO SHALL BE LAID DURING THE GROWING SEASON. SOODING SHALL NOT OCCUR DURING DRY SUMMER PERIODS, AT FREEZING TEMPERATURES, OR OVER FROZEN SOIL.
 - ALL SOODDED AREAS SHALL BE WATERED THROUGHOUT THE GROWING SEASON OF THE YEAR IN WHICH SOODING WAS COMPLETED.



ASPHALT: PAVEMENT SCHEDULE 7
SCALE: NTS
C8/C8



ASPHALT: PAVEMENT JOINT AT EXIST./NEW 8
SCALE: NTS
C8/C8



Client: Town of Stratford

Project Title: Stratford Waterfront Gathering & Event Space

Sheet Title: Typical Sections, Details & Notes

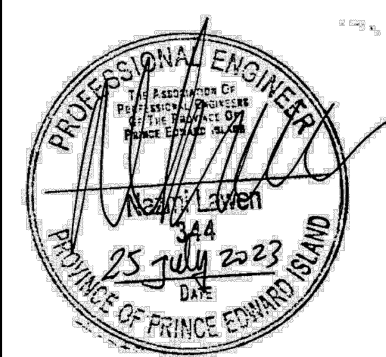
No.	Description	Date	Date: 2023-07-25	Revision
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			Chk By: NL, P.Eng	
			Project Number: 221122	
			Drawing Number: C8	



1 AERIAL PLAN: STRATFORD BOARDWALK
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Client
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Project Title
 Stratford Waterfront
 Gathering & Event Space

Sheet Title
 Erosion Control Plan

No.	Description	Date	Date: 2023-07-25	Revision
0	Issued for Tender	2023-07-25	Drn By: SPB	1
			Chk By: NL, P.Eng	
			Project Number:	
			221122	
			Drawing Number:	
			C9	

GENERAL LEGEND	
---	LIGHT LINEWEIGHT INDICATES EXISTING TO REMAIN
---	HEAVY LINEWEIGHT INDICATES NEW WORK
---	AERIAL SERVICE LINES
---	UNDERGROUND WIRING
⊕ LS #	POLE MOUNTED LIGHT STANDARD, # - LUMINAIRE DESIGNATION
⊕ P	POST MOUNT LUMINAIRE, # - LUMINAIRE DESIGNATION
⊕ PP	NEW UTILITY POLE BY MECL
⊕	GROUND ROD
⊕ PPB	POWER PULL BOX

ELECTRICAL SPECIFICATIONS

1. GENERAL CONDITIONS

- TENDER REQUIREMENTS, THE PROJECT CONTRACT, RELATED DOCUMENTATION AND GENERAL REQUIREMENTS GOVERN THE WORK OF THIS CONTRACT/TRADE.
- ALL ELECTRICAL WORK IS TO BE CARRIED OUT BY QUALIFIED, LICENSED ELECTRICIANS OR APPRENTICES FOR THE PROVINCE OF PRINCE EDWARD ISLAND AND THE ELECTRICAL CONTRACTOR MUST HAVE A VALID CONTRACTOR LICENSE ISSUED BY THE PROVINCE OF PRINCE EDWARD ISLAND.
- ELECTRICAL CONTRACTOR TO FURNISH ALL LABOUR, MATERIALS, TOOLS AND EQUIPMENT REQUIRED TO COMPLETE ALL WORK SHOWN ON THE DRAWINGS AND HEREIN SPECIFIED. THE WORK IS TO BE IN ACCORDANCE WITH RULES AND REGULATIONS OF ALL AUTHORITIES HAVING LEGAL JURISDICTION OVER THE WORK. PROVIDE ANY SMALL ITEMS OF WORK NOT SPECIFICALLY CALLED FOR BUT REQUIRED TO COMPLETE THE INTENDED INSTALLATION.
- THE TERM "OWNER" TO HEREIN AFTER REFER TO THE TOWN OF STRATFORD. THE TERM "ENGINEER" TO HEREIN AFTER REFER TO COLES ASSOCIATES LTD.
- THE ENGINEER RESERVES THE RIGHT TO APPROVE THE QUALITY OF MATERIAL AND WORKMANSHIP AND TO CALL FOR ANY TESTS WHICH THEY DEEM NECESSARY TO ESTABLISH THE INTEGRITY OF THE INSTALLATION DURING THE PROGRESS OF THE WORK AND A COMPLETE TEST OF EACH SYSTEM AT THE COMPLETION OF THE WORK. THE COST OF SUCH TESTS ARE NOT TO BE CONSIDERED AS EXTRAS.

2. DESCRIPTION OF WORK

- THE WORK IS TO CONSIST OF, BUT NOT BE LIMITED TO, THE FOLLOWING:
 - POWER DISTRIBUTION INCLUDING UNDERGROUND BRANCH CIRCUIT WIRING
 - WIRING DEVICES
 - ALL EXCAVATION, ENVIRONMENTAL CONTROLS TRENCHING AND ASSOCIATED SITE REMEDIATION, COORDINATE WORK WITH GENERAL CONTRACTOR.
 - LIGHTING, INCLUDING LIGHT STANDARDS AND CONCRETE BASES, POST LIGHTING, STATUES AND BENCH LIGHTING
 - ALL CABLE AND CONDUIT INSTALLATION
 - ALL NECESSARY CONNECTIONS FOR A COMPLETE SYSTEM

3. CODES, PERMITS AND INSPECTION

- ALL WORK IS TO BE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE CANADIAN ELECTRICAL CODE (CSA 22-121)
- ELECTRICAL CONTRACTOR TO BE RESPONSIBLE FOR AND IS TO OBTAIN ALL PERMITS, INSPECTIONS, ETC. AS REQUIRED BY ALL AUTHORITIES HAVING JURISDICTION OVER THIS WORK AND IS TO PAY FOR SAME. THESE COSTS ARE TO BE INCLUDED IN THE TENDER PRICES. ALL PERMITS ARE TO BE DELIVERED TO THE PROJECT MANAGER AS SOON AS THEY BECOME AVAILABLE.

4. DRAWINGS

- PREPARE AT OWN EXPENSE, ANY LARGE SCALE WORKING DRAWINGS WHICH MAY BE REQUIRED BY THE EXAMINING AUTHORITIES TO FACILITATE INSTALLATION

5. SHOP DRAWINGS

- SUBMIT SHOP DRAWINGS OF ALL ELECTRICAL EQUIPMENT FOR REVIEW BY THE ENGINEER. SHOP DRAWINGS ARE TO INCLUDE POWER DISTRIBUTION AND CONTROL EQUIPMENT, WIRING DEVICES, LIGHTING, LIGHTING CONTROL AND ALL ASSOCIATED REQUIRED EQUIPMENT. CONTRACTOR IS TO STAMP, SIGN AND DATE SHOP DRAWINGS PRIOR TO SUBMISSION AS PROOF OF THEIR APPROVAL. COORDINATION WITH FIELD MEASUREMENTS, AND COMPLIANCE WITH THE CONTRACT DOCUMENTS.

6. EXAMINATION OF SITE AND DRAWINGS

- EXAMINE CIVIL AND ELECTRICAL DRAWINGS, VISIT THE SITE AND BECOME FAMILIAR WITH THE PROJECT. ANY DEVIATION AND/OR CONFLICTS ON THE PLANS OR SITE IS TO BE REPORTED TO THE ENGINEER PRIOR TO SUBMITTING TENDER, OTHERWISE IT WILL BE CONSIDERED THAT THEY HAVE BEEN ACCOUNTED FOR IN TOTAL TENDERED PRICE.

7. COORDINATION SCHEDULE

- COORDINATE AND PERFORM WORK TO MEET THE COMPLETION SCHEDULE. ANY OVERTIME WORK TO MEET THE COMPLETION SCHEDULE IS TO BE INCLUDED IN TOTAL TENDERED PRICE. TYPICAL DAY-TO-DAY USAGE AND ACCESS OF THE SITE AND CAMPUS FACILITIES TO BE MAINTAINED UNLESS OTHERWISE APPROVED BY THE OWNER.

8. BILLINGS, REVISIONS AND EXTRAS

- BILLINGS FOR WORK ARE TO BE BROKEN DOWN INTO A NUMBER OF SUBSECTIONS TO INDICATE HOW VALUES WERE DERIVED. SUBMIT PROPOSED BREAKDOWN TO ENGINEER FOR APPROVAL. PRIOR TO FIRST BILLING. MATERIALS ON SITE TO BE SUPPORTED WITH PACKING SLIPS.
- NO ADDITIONAL MONEY OVER THE CONTRACT PRICE WILL BE PAID UNLESS AN APPROVED CHANGE ORDER IS ISSUED. CLAIMS FOR EXTRAS MUST BE SUBMITTED WITH A COMPLETE BREAKDOWN OF MATERIAL, LABOUR, HOURLY RATES, ETC.

9. CLEANUP

- REMOVE ALL WASTE PRODUCTS AND DEBRIS AND KEEP THE WORK AREA CLEAN AT ALL TIMES.
- PRIOR TO LEAVING SITE AT THE END OF EACH WORK DAY REMOVE SURPLUS PRODUCTS, TOOLS, CONSTRUCTION EQUIPMENT ETC.

10. EXISTING STRUCTURES AND SERVICES

- CONTRACTOR TO BE RESPONSIBLE FOR ANY DAMAGE CAUSED BY CUTTING OR DISRUPTING EXISTING STRUCTURES OR SERVICES DESIGNATED TO REMAIN IN USE.
- CONTRACTOR IS TO LOCATE AND COORDINATE WITH UNDERGROUND SERVICES BEFORE COMMENCING WORK.
- NEW AND EXISTING UNDERGROUND SERVICES ARE TO BE RUN PARALLEL AND PERPENDICULAR TO EACH OTHER, MINIMUM VERTICAL AND/OR HORIZONTAL CLEARANCE OF 300mm.

11. ALTERATIONS

- PRIOR TO TENDER SUBMISSION, VISIT THE SITE AND SURVEY AND QUANTIFY THE EXTENT OF THE ALTERATIONS REQUIRED FOR THIS CONTRACT AND INCLUDE FOR ALL COSTS IN THE TOTAL TENDERED PRICE.
- IN CONJUNCTION WITH SITE VISIT, REVIEW CIVIL AND ELECTRICAL DRAWINGS AND INCLUDE ALL COSTS DUE TO EXISTING CONDITIONS IN TOTAL TENDERED PRICE.

12. DELIVERY DATES

- PLACE ORDER FOR ALL MATERIAL AND EQUIPMENT IMMEDIATELY AFTER SIGNING OF CONTRACT. SUBMIT A LIST OF DELIVERY DATES FOR EACH TYPE OF EQUIPMENT WITHIN FIVE (5) DAYS OF THE AWARD OF CONTRACT. THE LIST IS TO INCLUDE SUPPLIER'S AND MANUFACTURER'S NAMES. USE ONLY MATERIALS THAT CAN BE DELIVERED ON TIME TO MEET CONSTRUCTION SCHEDULE, OTHERWISE PROVIDE TEMPORARY AT NO COST TO OWNER.

13. EQUIPMENT AND MATERIAL

- ALL EQUIPMENT AND MATERIAL UNLESS SPECIFICALLY NOTED OTHERWISE, IS TO BE NEW AND WITHOUT BLEMISH OR DEFECT. ALL MATERIAL AND EQUIPMENT ARE TO BE CERTIFIED BY A CERTIFICATION AGENCY WHICH IS ACCREDITED BY THE CANADIAN STANDARDS COUNCIL OF CANADA IN ACCORDANCE WITH THE REQUIREMENTS OF CSA STANDARDS OR OTHER RECOGNIZED DOCUMENTS AND HAVE ALL REQUIRED LABELS PERMANENTLY AFFIXED AND VISIBLE WHEN INSTALLED.

14. TESTING

- PANELBOARDS ARE TO BE BALANCED WITHIN 5%. MEASURE PHASE CURRENT TO PANELS WITH NORMAL LOADS OPERATING AT TIME OF ACCEPTANCE. ADJUST BRANCH CIRCUIT CONNECTIONS AS REQUIRED TO OBTAIN BEST BALANCE OF CURRENT BETWEEN PHASES. INCLUDE SIGNED AND DATED LOAD BALANCE SHEETS IN MAINTENANCE MANUALS.
- TEST ALL SYSTEM GROUNDING CONDUCTORS FOR PHASE TO GROUND LOADS, AMMETER IS TO READ LESS THAN AMPERE. INCLUDE SIGNED AND DATED LOAD BALANCE SHEETS IN MAINTENANCE MANUALS.
- ALL ELECTRICAL EQUIPMENT AND SYSTEMS TO BE COMMISSIONED BY ELECTRICAL CONTRACTOR, READY FOR USE BY OWNER.

15. DEMONSTRATION OF THE SYSTEM

- DEMONSTRATE THE FUNCTION AND OPERATION OF EACH SYSTEM TO THE ENGINEER AND OWNER

16. IDENTIFICATION

- PROVIDE AND INSTALL LAMICOID IDENTIFICATION NAMEPLATES ON ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, COVER OF PULLBOXES, HANDHOLD COVER OF LIGHT STANDARDS, CONTRACTOR, ETC. INDICATING THE LOAD SERVED, SYSTEM AMPERAGE, VOLTAGE, AND PHASING WHERE APPLICABLE.
- LAMICOID NAMEPLATES ARE TO BE WHITE WITH BLACK ENGRAVED LETTERS AND ARE TO BE INSTALLED WITH CONTACT CEMENT TO EQUIPMENT ENCLOSURES, MECHANICAL FASTENERS TO PULLBOXES.
- SERVICE RATED PANELBOARD IS TO HAVE A TYPEWRITTEN BREAKER DIRECTORY INDICATING THE LOAD CONNECTED TO EACH CIRCUIT. DIRECTORIES ARE TO BE MOUNTED ON THE INSIDE OF THE PANEL DOOR WITH A TRANSPARENT PLASTIC COVER.
- EACH WIRE TO HAVE SELF-LAMINATING OR HEAT SHRINK STYLE CABLE MARKER INDICATING THE CIRCUIT NUMBER IT IS CONNECTED TO.

17. COORDINATION

- BE RESPONSIBLE FOR COORDINATING THE INSTALLATION OF EQUIPMENT, CONDUIT AND CABLE WORK, LIGHTING FIXTURES, ETC. WITH OTHER TRADES PRIOR TO THE ACTUAL INSTALLATION.

18. ACCESSIBILITY

- ALL WORK IS TO BE INSTALLED SO IT CAN BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE AND REPAIRS.

19. RESPONSIBILITY

- BE RESPONSIBLE FOR WORK UNTIL THE COMPLETION AND FINAL ACCEPTANCE, INCLUDING REPLACING ANY ITEM THAT MAY BE DEFECTIVE, DAMAGED, LOST OR STOLEN WITHOUT ADDITIONAL COST TO THE OWNER OR DELAY TO THE COMPLETION OF THE PROJECT.

20. WARRANTY

- WARRANT ALL WORK AND MATERIALS INSTALLED UNDER THIS CONTRACT, AGAINST ALL DEFECTS AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER ACCEPTANCE OF SAME BY OTHERS.

21. FASTENINGS AND SUPPORTS

- PROVIDE FASTENINGS AND SUPPORTS SPECIFICALLY DESIGNED TO SUPPORT THE LOAD FOR ALL ELECTRICAL EQUIPMENT.
- SPECIFIC PURPOSE HEAT TREATED, SPRING STEEL FASTENERS TO SUPPORT BOXES, CONDUIT AND CABLE FROM MAIN STRUCTURES.

22. CONDUIT AND FITTINGS

- WHEN SHOWN, CONDUIT SIZES ARE TO BE AS INDICATED ON THE DRAWINGS AND ARE NOT TO BE REDUCED IN SIZE UNLESS APPROVAL IS OBTAINED FROM THE ENGINEER, OTHERWISE, SIZE CONDUIT TO CSA 22-1-21 REQUIREMENTS.
- PVC CONDUIT TO BE USED UNDERGROUND AND IN CONCRETE SLAB WHERE ALLOWED BY SECTION 12 OF THE CSA 22-1-21, UNLESS OTHERWISE INDICATED. EXPOSED PVC WILL NOT BE PERMITTED
- MINIMUM CONDUIT SIZE IS TO BE 1" UNLESS SPECIFICALLY OTHERWISE INDICATED.
- PROVIDE LOW VOC MASTIC COMPOUND WEATHERPROOF SEAL WHERE CONDUITS PASS THROUGH EXPOSED EXTERIOR WALLS OR STRUCTURES.

23. OUTLET, PULL AND JUNCTION BOXES

- BOXES TO BE CODE GAUGE STEEL, SIZED TO MEET CSA 22-1-21 REQUIREMENTS AND SUITABLE FOR THE TYPE OF CONSTRUCTION. USE CAST FS OR FD BOXES FOR SURFACE MOUNTED OUTLETS AS REQUIRED.
- EXTERIOR BOXES TO BE WATER TIGHT.
- PROVIDE PULL BOXES ON CONDUIT RUNS AT A MAXIMUM OF 100' INTERVALS.
- BOXES TO BE SUPPORTED INDEPENDENT OF CONDUIT RUNS.

24. WIRE AND CABLE

- ALL WIRES TO BE COPPER RW90, RATED 600V, INSTALLED IN CONDUIT UNLESS OTHERWISE INDICATED.
- ALL WIRING TO BE SIZED TO MEET ALL REQUIREMENTS OF THE CSA 22-1-21. MINIMUM SIZE FOR BRANCH CIRCUIT WIRING TO BE #12 AND 14# FOR CONTROL WIRING UNLESS INDICATED OTHERWISE.
- ALL WIRES TO BE NEW AND DELIVERED TO THE SITE OF THE PROJECT IN THEIR ORIGINAL PACKING. WIRES #8 AND LARGER TO BE STRANDED, #10 AND SMALLER TO BE SOLID. WIRES TO BE FACTORY IDENTIFIED SHOWING SIZE, VOLTAGE RATING AND INSULATION TYPE.
- NEUTRAL CONDUCTOR TO BE WHITE THROUGHOUT, THREE PHASE WIRES TO BE: ONE RED, ONE BLACK AND ONE BLUE.
- WHERE COMMON NEUTRALS ARE USED ENSURE THAT CIRCUITS ARE FROM DIFFERENT PHASES.
- CABLES ARE TO BE INSTALLED WITHOUT SPICES AND BE RUN CONTINUOUS FROM SOURCE TO LOAD.
- TECK CABLES TO BE RATED FOR 600V WITH FT4 JACKET TO WIRE POST MOUNT LIGHTING FIXTURES OR WHERE INDICATED.

25. CONNECTORS FOR WIRES

- USE TWIST-ON PRESSURE TYPE WIRE CONNECTORS FOR #8 TO #14 SIZED WIRE CONNECTIONS. ACCEPTABLE MATERIAL: MARETTE
- USE CRIMP STYLE ALLOY WIRE CONNECTORS. NYLON INSULATED FOR #16 AND SMALLER WIRES AND FOR CONNECTING SOLID TO STRANDED CONDUCTORS.
- COMPRESSION TYPE CONNECTORS TO BE USED FOR CONNECTING #6 CONDUCTORS AND LARGER.
- USE GEL FILLED TWIST-ON CONNECTORS IN DAMP OR WET LOCATIONS. ACCEPTABLE MATERIAL: KING INNOVATION DRY CONN.

26. GROUNDING AND BONDING

- ENTIRE ELECTRICAL SYSTEM TO BE GROUNDING AND BONDED IN ACCORDANCE WITH THE REQUIREMENTS OF THE CEC AND LOCAL AUTHORITIES.
- ALL CONDUITS TO HAVE SEPARATE INSULATED BONDING CONDUCTOR.
- ALL INSULATED GROUNDING AND BONDING WIRES TO HAVE GREEN JACKET.

27. SERVICE ENTRANCE

- GENERAL CONTRACTOR IS RESPONSIBLE FOR ANY UTILITY COSTS FOR NEW SERVICE.
- GENERAL CONTRACTOR IS RESPONSIBLE TO COORDINATE WITH UTILITY TO ENSURE AVAILABILITY OF SERVICE TO MEET CONSTRUCTION SCHEDULE AND ARRANGE AN ON SITE MEETING WITH SERVICE UTILITY TO OBTAIN THEIR APPROVAL FOR LAYOUT AND CONSTRUCTION DETAILS PRIOR TO INSTALLATION.
- ELECTRICAL CONTRACTOR TO BE RESPONSIBLE TO SUPPLY AND INSTALL ALL CABLING AND CONDUIT FROM THE SECONDARY SIDE OF THE POLE MOUNTED UTILITY TRANSFORMER AS INDICATED. PRIMARY AND SECONDARY CONNECTIONS TO THE UTILITY TRANSFORMER ARE TO BE COMPLETED BY THE UTILITY.

28. PANELBOARDS

- PANELBOARD TO BE SERVICE RATED C/W MAIN BONDING OF THE AMPERAGE, VOLTAGE AND PHASING INDICATED ON THE DRAWINGS, COMPLETE WITH CIRCUIT BREAKERS AS INDICATED.
- PANELBOARD TO BE SECURELY FASTENED TO THE WOODEN CROSS BRACING OF THE WOODEN POST AS INDICATED ON THE DRAWING. PANELBOARD TO BE C/W A TYPE 4x ENCLOSURE, HINGED DOOR, LATCH AND LOCK AND DIRECTORY, BAKED GREY ENAMEL FINISH.
- CIRCUIT BREAKERS TO HAVE THERMAL MAGNETIC TRIP PROTECTION WITH BIMETALLIC ELEMENTS FOR DELAY OVERLOAD PROTECTION. TWO POLE BREAKERS TO HAVE INTERNAL COMMON TRIP. BREAKERS ARE TO BE BOLT-IN FIELD INTERCHANGEABLE, 10 KAIC AT 208V.
- CIRCUIT BREAKERS TO BE BY THE SAME MANUFACTURER AS THE PANELBOARD IN WHICH THEY ARE BEING INSTALLED. BREAKERS MUST BE NEW, COMPLETE WITH ORIGINAL FACTORY WARRANTY AND SUPPLIED FROM AN AUTHORIZED MANUFACTURERS DISTRIBUTOR.
- ACCEPTABLE MATERIAL: SQUARE D, SIEMENS, Eaton.

29. WIRING DEVICES

- DUPLEX CSA TYPE 5-15R GROUND FAULT CIRCUIT INTERRUPTER (GFCI) RECEPTACLES TO BE WHITE, DECORAL COMMERCIAL SPECIFICATION GRADE, NYLON FACEPLATE C/W 0.025 SECONDS TRIP-TIME, 10,000A MAXIMUM INTERRUPTING CAPACITY INTEGRAL TEST BUTTON AND INDICATOR LIGHT. ACCEPTABLE MATERIAL: COOPER #VGF15-W, HUBBELL #GFRST15WNL, LEVITON #N7599-W; PASS & SEYMOUR #15959-W.
- PROVIDE CIRCUIT IDENTIFICATION AT ALL WIRING DEVICES USING PRE-PRINTED THERMAL NON-SMEAR LABELS, CLEAR VINYL WITH BLOCK LETTERING, ATTACHED TO COVER PLATE. WHITE VINYL LABELS WILL NOT BE ACCEPTED.
- RECEPTACLE DESIGNATED AS WEATHERPROOF TO BE GFCI TYPE C/W SPRING LOADED GASKETTED WHILE-IN-USE COVERS. ACCEPTABLE MATERIAL: HUBBELL TAYMAC ML SERIES; PASS & SEYMOUR #WUCIOSG.

30. LUMINAIRES

- PROVIDE LUMINAIRES C/W DRIVERS AS INDICATED IN THE LUMINAIRE SCHEDULE ON DRAWING E4.
- CO-ORDINATE THE EXACT MOUNTING AND LOCATION OF LUMINAIRES.
- ALIGN LUMINAIRES IN CONTINUOUS ROWS TO FORM STRAIGHT UNINTERRUPTED LINE.
- PROVIDE TIME CLOCK AND LIGHTING CONTACTOR AS REQUIRED FOR CONTROLLING STATUE, BENCH AND POST LIGHTING FIXTURES. REFER TO DETAIL 2/E4 FOR ADDITIONAL INFORMATION.

31. MAINTENANCE MANUALS

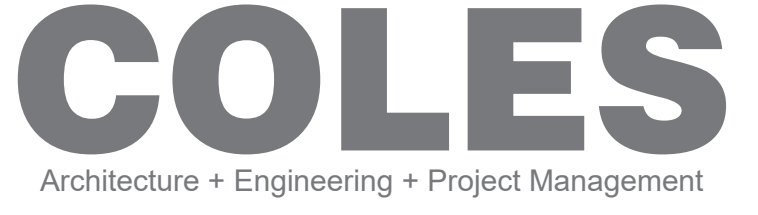
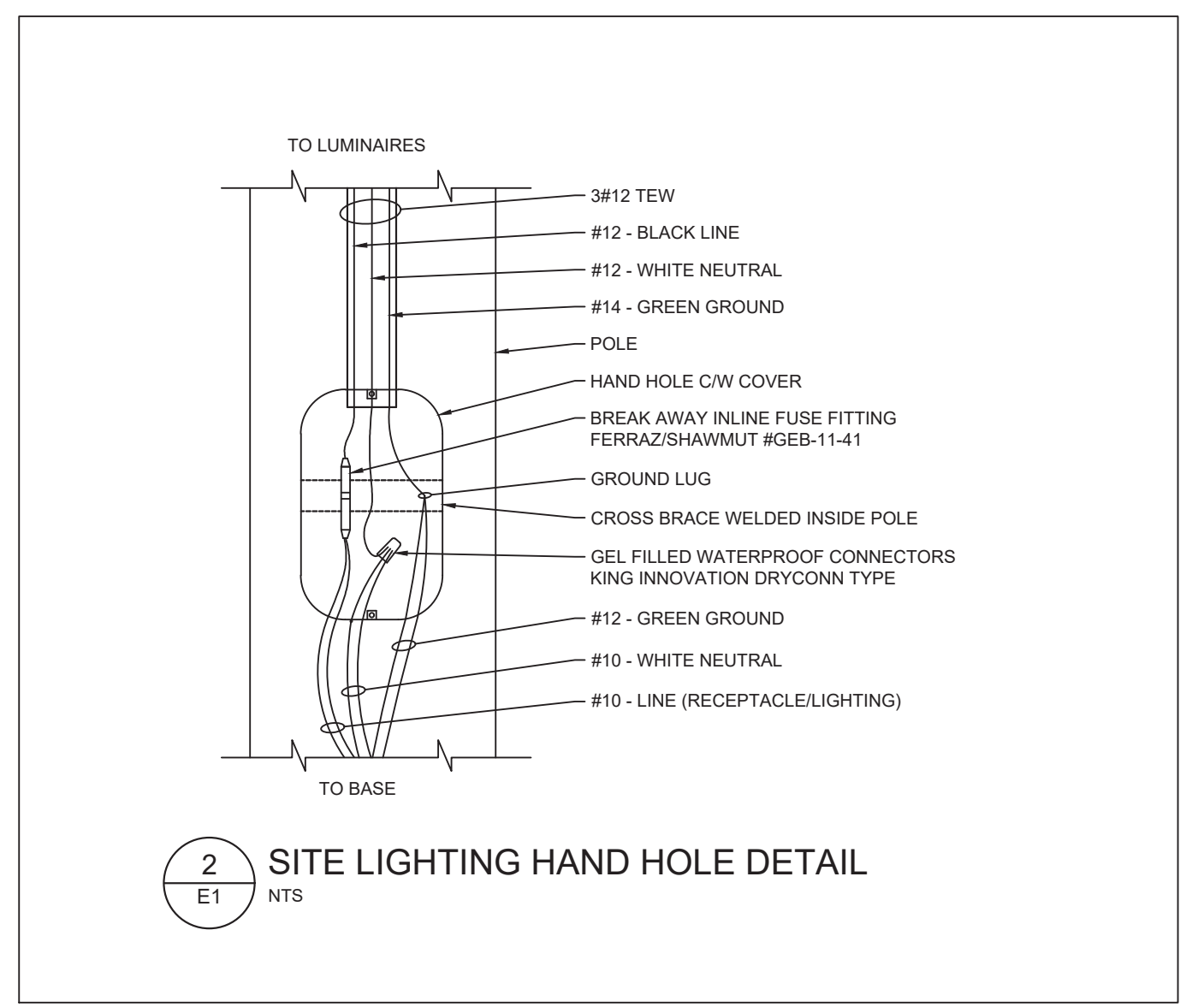
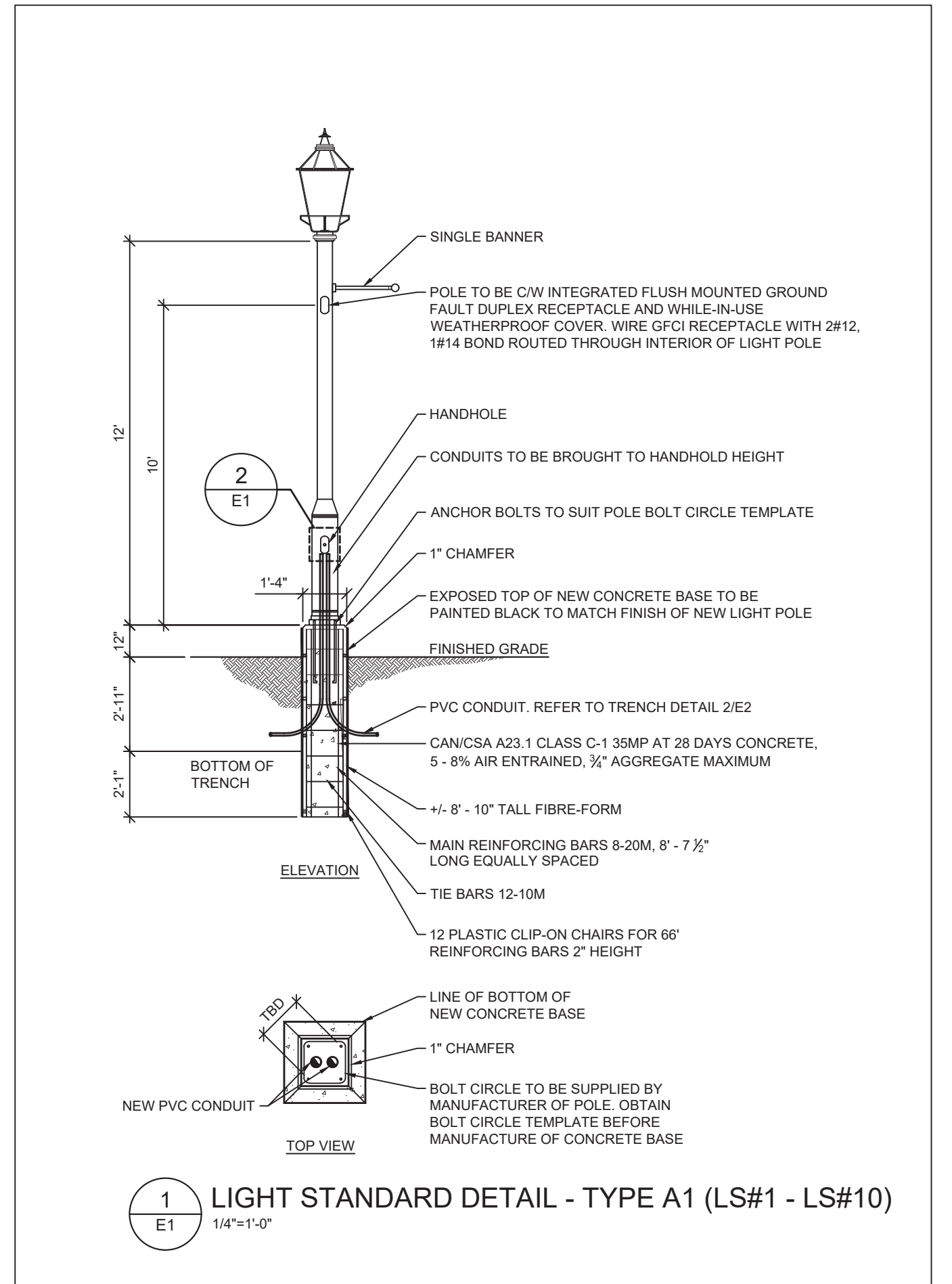
- AT COMPLETION OF CONTRACT PROVIDE THREE (3) COPIES OF MAINTENANCE MANUALS TO GENERAL REQUIREMENTS. INCLUDE ALL SHOP DRAWINGS, CERTIFICATES, TEST SHEETS, GUARANTEES, WARRANTIES AND MAINTENANCE INFORMATION NAME, ADDRESS AND TELEPHONE NUMBER OF CONTRACTOR, PLUS NAMES, ADDRESSES AND TELEPHONE NUMBERS OF DISTRIBUTORS, MANUFACTURERS, AND SUPPLIERS OF EQUIPMENT.

NOTES

THE PLANS FOR THE WORK ACCOMPANYING THESE SPECIFICATIONS ARE MADE AS ACCURATELY AS POSSIBLE, BUT ABSOLUTE ACCURACY OF DIMENSIONS CANNOT BE GUARANTEED. THEY ARE INTENDED TO SUPPLEMENT AND SIMPLIFY THE GENERAL CONTRACT DRAWINGS. NO CLAIMS FOR EXTRA PAYMENT ON ACCOUNT OF THE DIFFERENCE OF ACTUAL AND ESTIMATED DIMENSIONS WILL BE ALLOWED.

EXACT LOCATION OF ALL ELECTRICAL WORK TO BE DETERMINED WITH ARCHITECTURAL FLOOR PLANS, FURNITURE AND EQUIPMENT LAYOUTS PRIOR TO ANY INSTALLATION

THE PLANS LISTED BELOW FORM AN INTEGRAL PART OF THIS SPECIFICATION:
 E1 - ELECTRICAL SPECIFICATIONS, LEGEND & DETAILS
 E2 - ELECTRICAL SITE PLAN, TRENCHES & DETAILS
 E3 - STATUE & LOOKOUT DECK PLANS, ELEVATIONS & DETAILS
 E4 - SERVICE ENTRANCE DETAIL, SCHEMATICS & SCHEDULES



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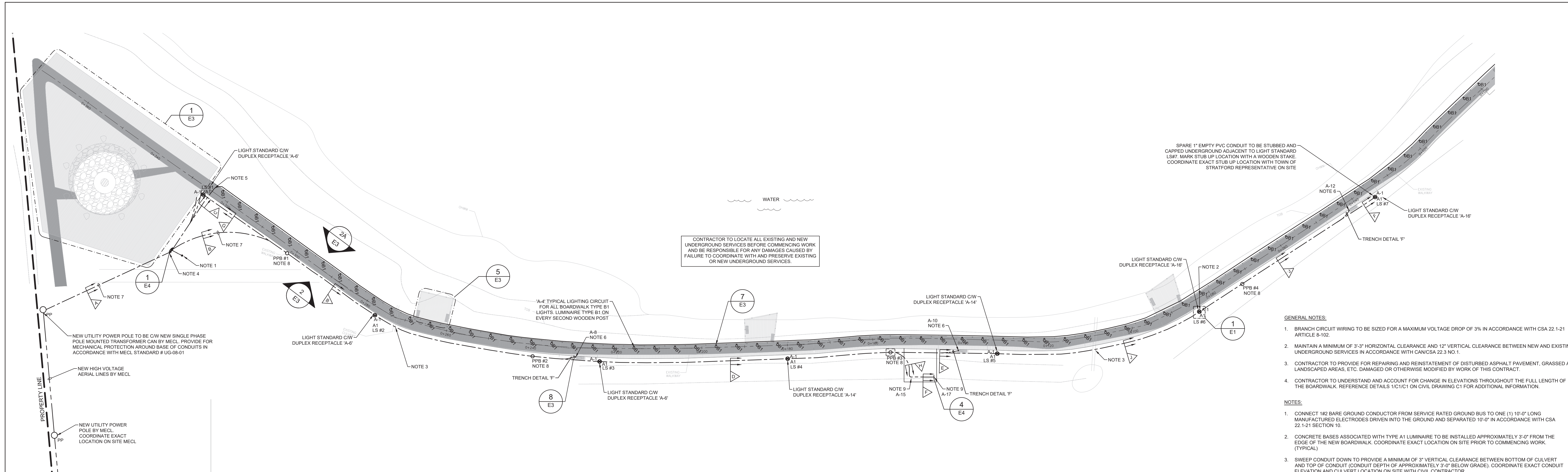


Client
Town of Stratford

Project Title
Stratford Waterfront
Gathering & Event Space

Sheet Title
Electrical Specifications,
Legend & Details

No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-07-25	2023-07-25	0
			Drawn By: A.Y. EIT / E.A. EIT	
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			Project Number:	
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			E1	

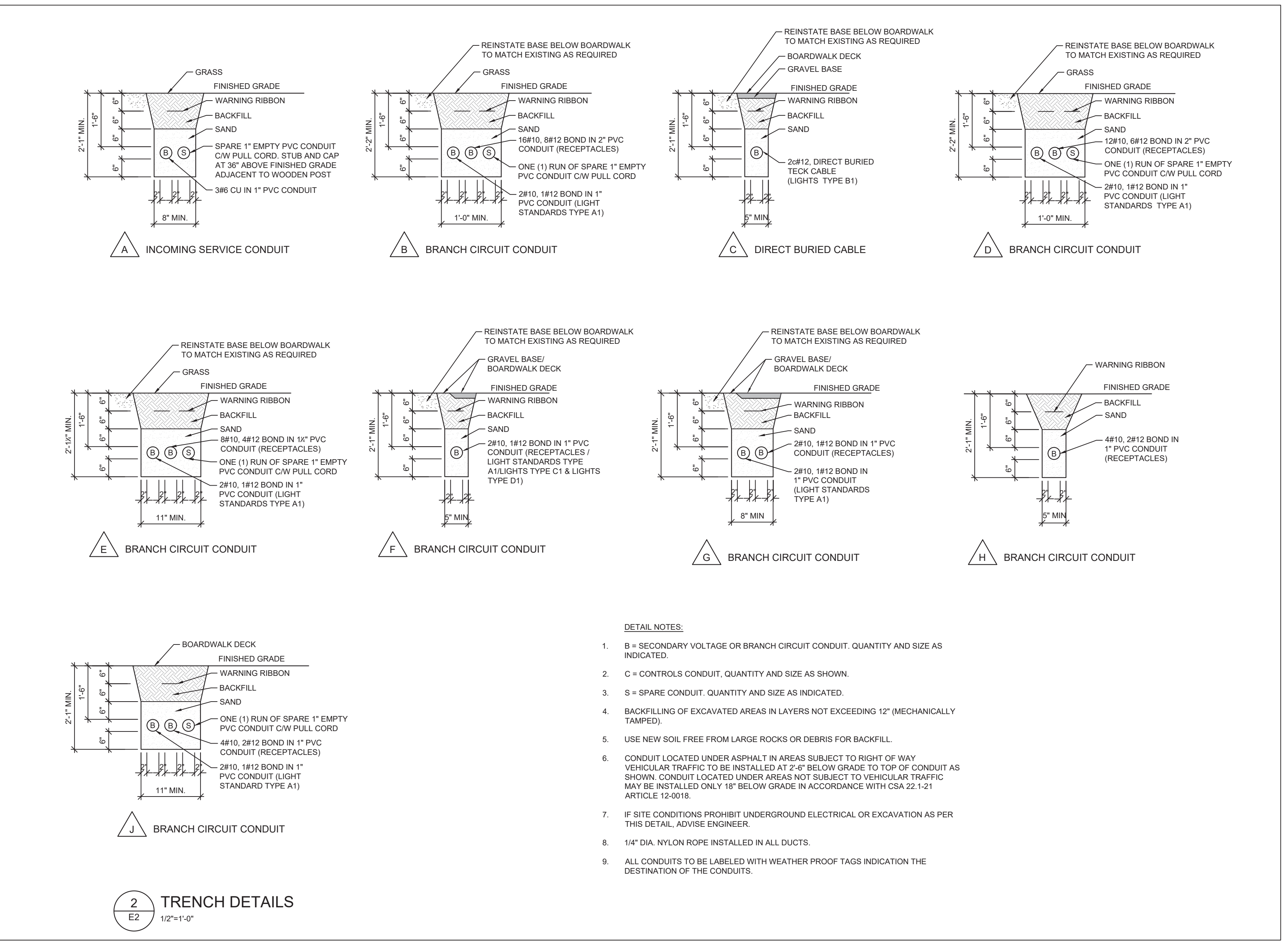


CONTRACTOR TO LOCATE ALL EXISTING AND NEW UNDERGROUND SERVICES BEFORE COMMENCING WORK AND BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY FAILURE TO COORDINATE WITH AND PRESERVE EXISTING OR NEW UNDERGROUND SERVICES.

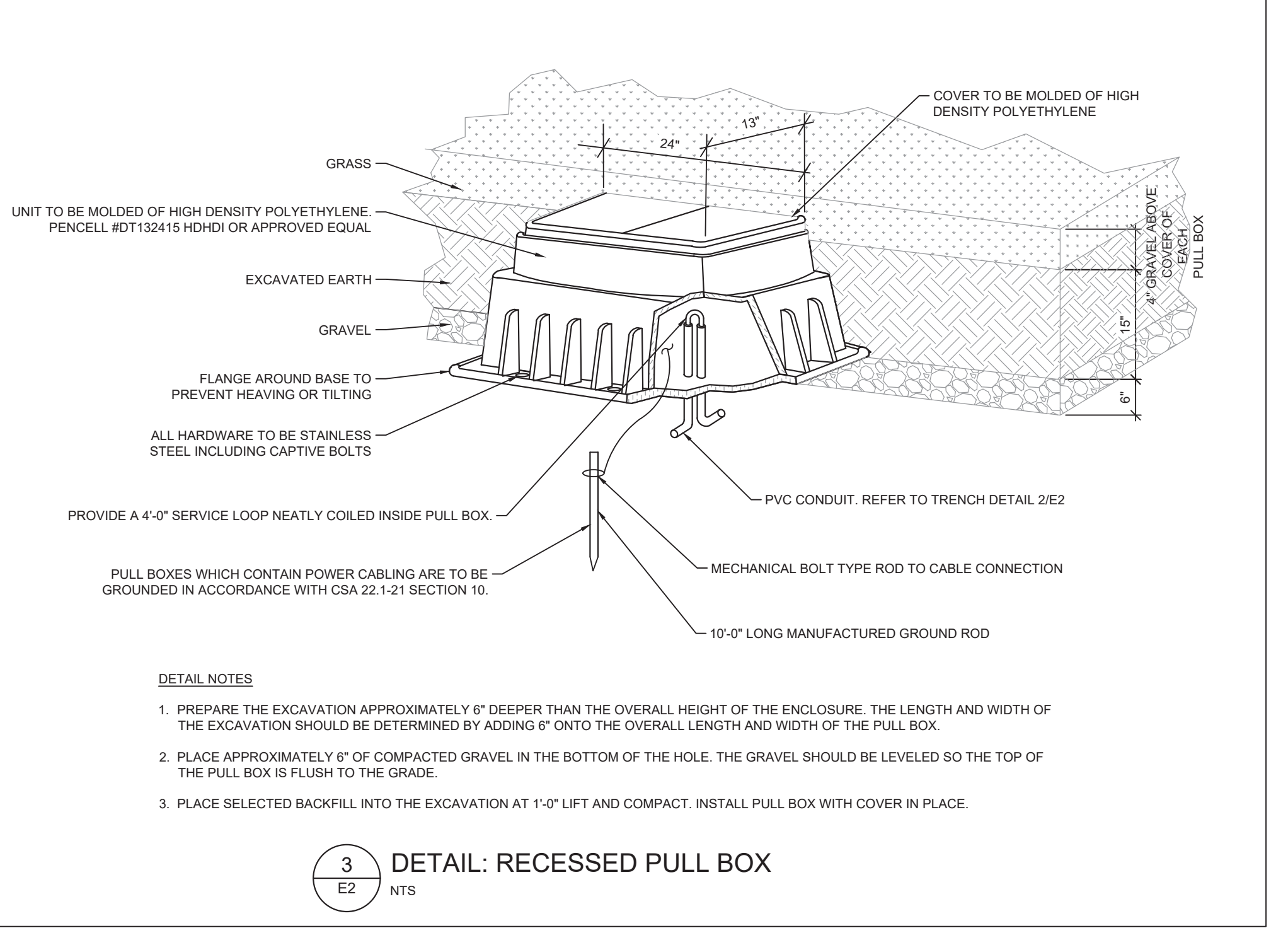
SPARE 1" EMPTY PVC CONDUIT TO BE STUBBED AND CAPPED UNDERGROUND ADJACENT TO LIGHT STANDARD LS#7. MARK STUB UP LOCATION WITH A WOODEN STAKE. COORDINATE EXACT STUB UP LOCATION WITH TOWN OF STRATFORD REPRESENTATIVE ON SITE.

- GENERAL NOTES:**
- BRANCH CIRCUIT WIRING TO BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% IN ACCORDANCE WITH CSA 22.1-21 ARTICLE 8-102.
 - MAINTAIN A MINIMUM OF 3'-3" HORIZONTAL CLEARANCE AND 12" VERTICAL CLEARANCE BETWEEN NEW AND EXISTING UNDERGROUND SERVICES IN ACCORDANCE WITH CAN/CSA Z23.3 NO. 1.
 - CONTRACTOR TO PROVIDE FOR REPAIRING AND REINSTATEMENT OF DISTURBED ASPHALT PAVEMENT, GRASS AND LANDSCAPED AREAS, ETC. DAMAGED OR OTHERWISE MODIFIED BY WORK OF THIS CONTRACT.
 - CONTRACTOR TO UNDERSTAND AND ACCOUNT FOR CHANGE IN ELEVATIONS THROUGHOUT THE FULL LENGTH OF THE BOARDWALK. REFERENCE DETAILS 1-11/12/13 ON CIVIL DRAWING C1 FOR ADDITIONAL INFORMATION.

- NOTES:**
- CONNECT #2 BARE GROUND CONDUCTOR FROM SERVICE RATED GROUND BUS TO ONE (1) 10'-0" LONG MANUFACTURED ELECTRODES DRIVEN INTO THE GROUND AND SEPARATED 10'-0" IN ACCORDANCE WITH CSA 22.1-21 SECTION 10.
 - CONCRETE BASES ASSOCIATED WITH TYPE A1 LUMINAIRE TO BE INSTALLED APPROXIMATELY 3'-0" FROM THE EDGE OF THE NEW BOARDWALK. COORDINATE EXACT LOCATION ON SITE PRIOR TO COMMENCING WORK (TYPICAL).
 - SWEEP CONDUIT DOWN TO PROVIDE A MINIMUM OF 3" VERTICAL CLEARANCE BETWEEN BOTTOM OF CULVERT AND TOP OF CONDUIT (CONDUIT DEPTH OF APPROXIMATELY 3'-0" BELOW GRADE). COORDINATE EXACT CONDUIT ELEVATION AND CULVERT LOCATION ON SITE WITH CIVIL CONTRACTOR.
 - COORDINATE WITH CIVIL CONTRACTOR AND PROVIDE FOR ALL GRUBBING AND LEVELING AS REQUIRED TO FACILITATE INSTALLATION OF ELECTRICAL EQUIPMENT AS WELL AS ALL SITE REMEDIATION, BACKFILL AND SEEDING TO MATCH EXISTING (TYPICAL).
 - CONTRACTOR TO ROUTE DIRECT BURIED TECK CABLE BELOW GRAVEL LOCATED UNDERNEATH BOARDWALK AND THEN ALONG THE SIDE OF THE BOARDWALK DECK TO A 4" x 4" PVC JUNCTION BOX MOUNTED 1'-4" ABOVE BOARDWALK DECK TO WIRE LUMINAIRE TYPE B1 LOCATED AT EVERY SECOND WOODEN POST. REFER TO DETAIL 7/E3 FOR ADDITIONAL INFORMATION ON WIRING OF TYPE B1 LUMINAIRES. TECK CABLES TO BE SECURED ALONG THE SIDE OF THE BOARDWALK DECK AND THE PRESSURE TREATED WOODEN POST WITH STAINLESS STEEL FASTENERS AT 1'-0" SPACING. COORDINATE EXACT TECK CABLE INSTALLATION WITH GENERAL CONTRACTOR ON SITE PRIOR TO ROUGH-IN.
 - CONTRACTOR TO ROUTE 1" PVC CONDUIT UNDERGROUND AND THEN UPWARDS TIGHT TO THE BACK SIDE OF A 6" x 6" PRESSURE TREATED WOODEN POST AND THEN DRILL HORIZONTALLY THROUGH THE WOODEN POST TO EXTEND A JACKETED 1" LIQUID TIGHT FLEX THROUGH A 1" PVC LB ELBOW TO WIRE A WEATHERPROOF DUPLEX RECEPTACLE MOUNTED AT 1'-6" ABOVE BOARDWALK DECK. WEATHERPROOF DUPLEX RECEPTACLE TO BE MOUNTED ONTO A WEATHERPROOF SURFACE MOUNTED BACK BOX. REFER TO DETAIL 8/E4 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLE WITH TOWN OF STRATFORD REPRESENTATIVE ON SITE PRIOR TO ROUGH-IN.
 - CONTRACTOR TO CUT THROUGH EXISTING GRASS AND EXCAVATE AS REQUIRED TO FACILITATE OPEN TRENCHING TO INSTALL NEW UNDERGROUND CONDUITS. PROVIDE FOR REPAIR, REINSTATEMENT AND SEEDING OF EXISTING GRASS AREA DAMAGED BY WORK OF THIS CONTRACT AS REQUIRED.
 - IN-GROUND POWER PULL BOX TO BE COVERED WITH 4" GRAVEL. EXACT LOCATION OF IN-GROUND POWER PULL BOX IS TO BE COORDINATED ON SITE PRIOR TO INSTALLATION. IN-GROUND POWER PULL BOX IS NOT SHOWN TO SCALE. SYMBOLS ARE SHOWN TO INDICATE GENERAL LOCATION ONLY (TYPICAL).
 - CONTRACTOR TO ROUTE 1" PVC CONDUIT UNDERGROUND AND THEN UPWARDS TIGHT TO THE BACK SIDE OF A 6" x 6" PRESSURE TREATED WOODEN POST AND THEN DRILL HORIZONTALLY THROUGH THE WOODEN POST TO EXTEND A JACKETED 1" LIQUID TIGHT FLEX THROUGH A 1" PVC LB ELBOW TO WIRE A WEATHERPROOF RECEPTACLE MOUNTED AT 1'-6" ABOVE BOARDWALK DECK. CONTRACTOR IS THEN TO EXTEND A 3/4" PVC CONDUIT DOWNWARDS TIGHT TO THE FRONT OF THE PRESSURE TREATED WOODEN POST TO A WEATHERPROOF DUPLEX RECEPTACLE MOUNTED AT 1' ABOVE BOARDWALK DECK. WEATHERPROOF DUPLEX RECEPTACLE TO BE MOUNTED ONTO A WEATHERPROOF SURFACE MOUNTED BACK BOX AND C/W WHILE-IN-USE COVERS. REFER TO DETAIL 4/E4 FOR ADDITIONAL INFORMATION. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF RECEPTACLES WITH TOWN OF STRATFORD REPRESENTATIVE PRIOR TO ROUGH-IN.



- DETAIL NOTES:**
- B = SECONDARY VOLTAGE OR BRANCH CIRCUIT CONDUIT. QUANTITY AND SIZE AS INDICATED.
 - C = CONTROLS CONDUIT. QUANTITY AND SIZE AS SHOWN.
 - S = SPARE CONDUIT. QUANTITY AND SIZE AS INDICATED.
 - BACKFILLING OF EXCAVATED AREAS IN LAYERS NOT EXCEEDING 12" (MECHANICALLY TAMPED).
 - USE NEW SOIL FREE FROM LARGE ROCKS OR DEBRIS FOR BACKFILL.
 - CONDUIT LOCATED UNDER ASPHALT IN AREAS SUBJECT TO RIGHT OF WAY VEHICULAR TRAFFIC TO BE INSTALLED AT 2'-0" BELOW GRADE TO TOP OF CONDUIT AS SHOWN. CONDUIT LOCATED UNDER AREAS NOT SUBJECT TO VEHICULAR TRAFFIC MAY BE INSTALLED ONLY 18" BELOW GRADE IN ACCORDANCE WITH CSA 22.1-21 ARTICLE 12-0018.
 - IF SITE CONDITIONS PROHIBIT UNDERGROUND ELECTRICAL OR EXCAVATION AS PER THIS DETAIL, ADVISE ENGINEER.
 - 1/4" DIA. NYLON ROPE INSTALLED IN ALL DUCTS.
 - ALL CONDUITS TO BE LABELED WITH WEATHER PROOF TAGS INDICATING THE DESTINATION OF THE CONDUITS.



- DETAIL NOTES:**
- PREPARE THE EXCAVATION APPROXIMATELY 6" DEEPER THAN THE OVERALL HEIGHT OF THE ENCLOSURE. THE LENGTH AND WIDTH OF THE EXCAVATION SHOULD BE DETERMINED BY ADDING 6" ONTO THE OVERALL LENGTH AND WIDTH OF THE PULL BOX.
 - PLACE APPROXIMATELY 6" OF COMPACTED GRAVEL IN THE BOTTOM OF THE HOLE. THE GRAVEL SHOULD BE LEVELLED SO THE TOP OF THE PULL BOX IS FLUSH TO THE GRADE.
 - PLACE SELECTED BACKFILL INTO THE EXCAVATION AT 1'-0" LIFT AND COMPACT. INSTALL PULL BOX WITH COVER IN PLACE.

1 ELECTRICAL SITE PLAN
1/32" = 1'-0"

2 TRENCH DETAILS
1/2" = 1'-0"

3 DETAIL: RECESSED PULL BOX
NTS



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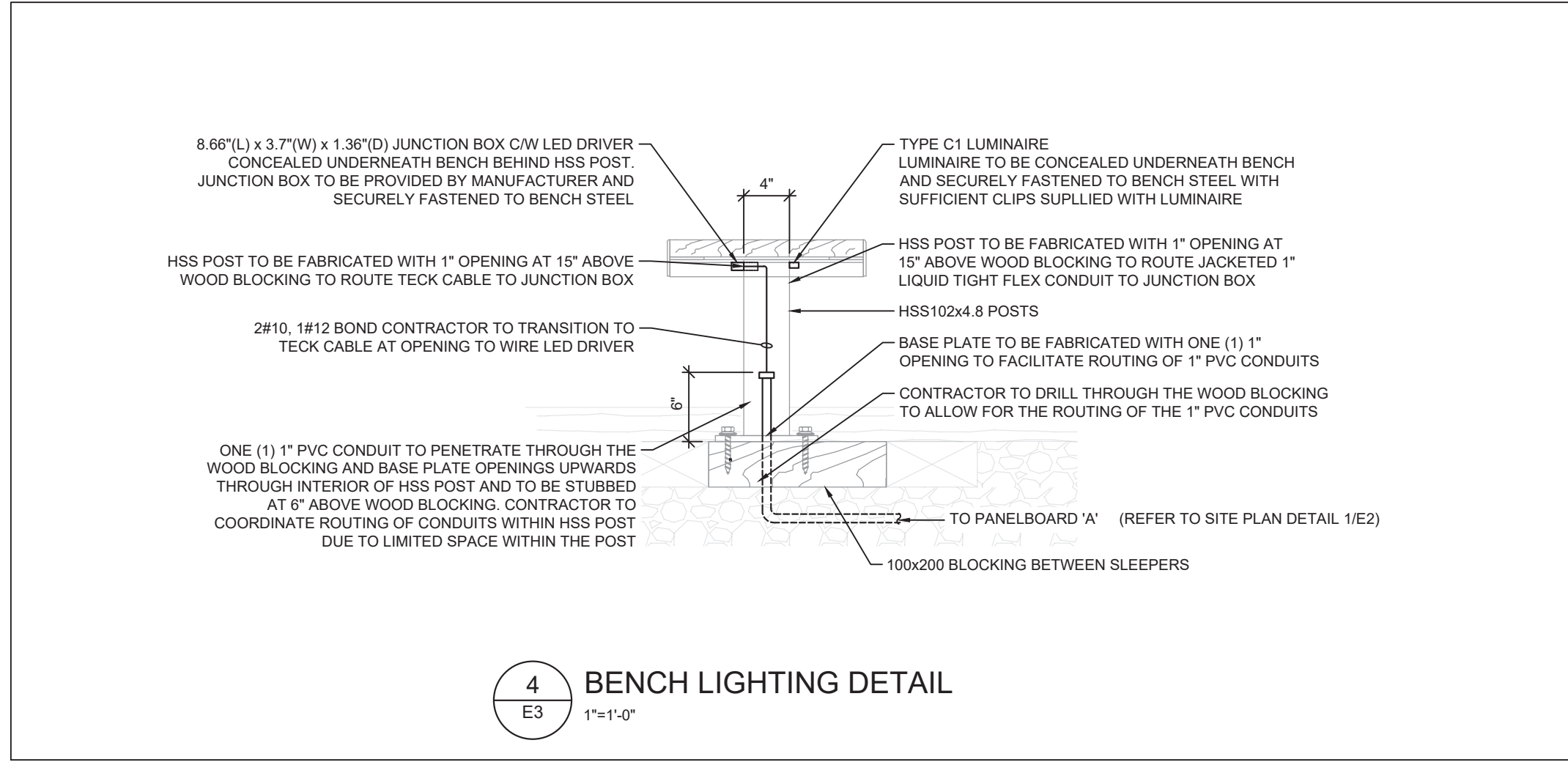
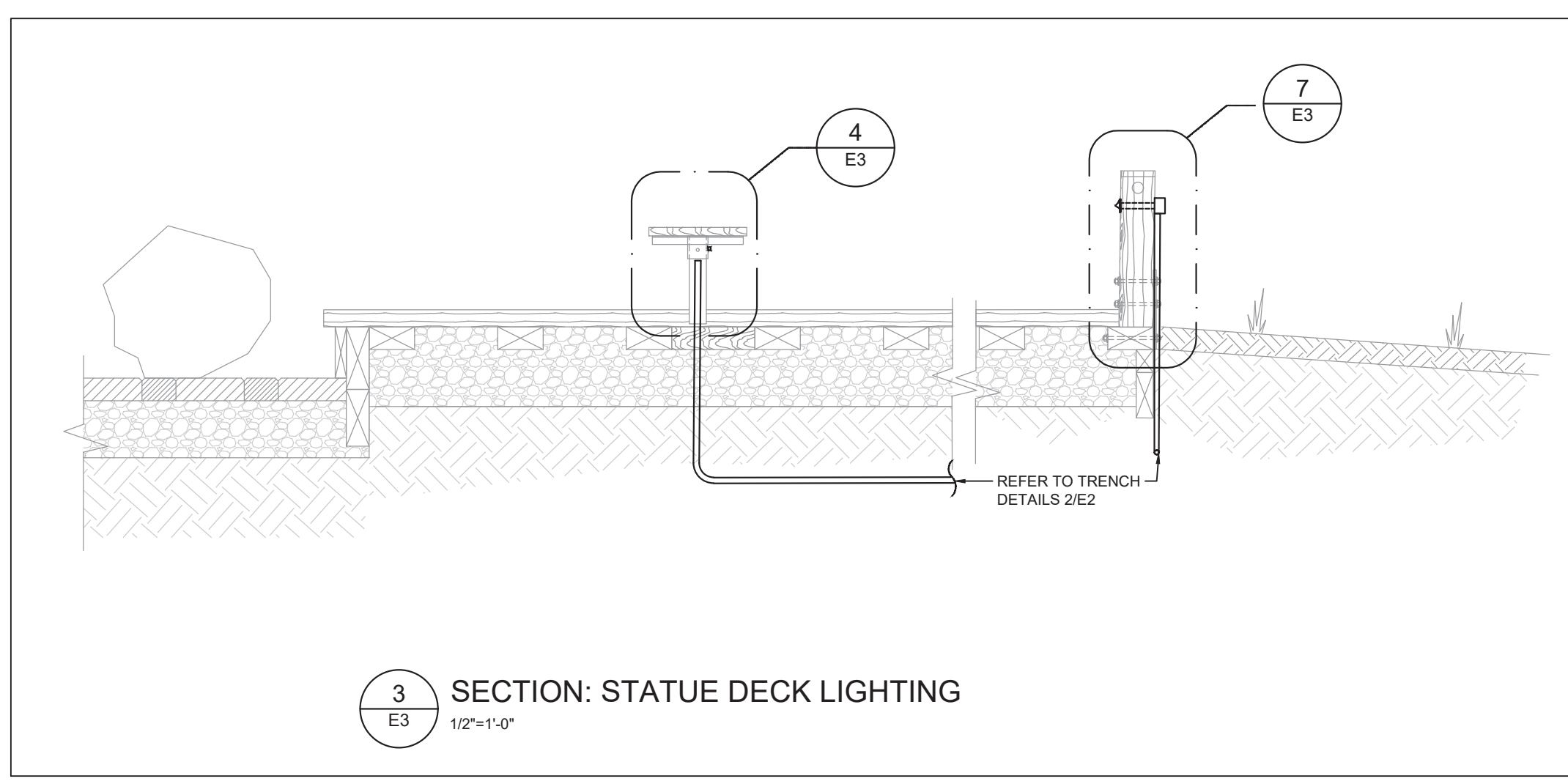
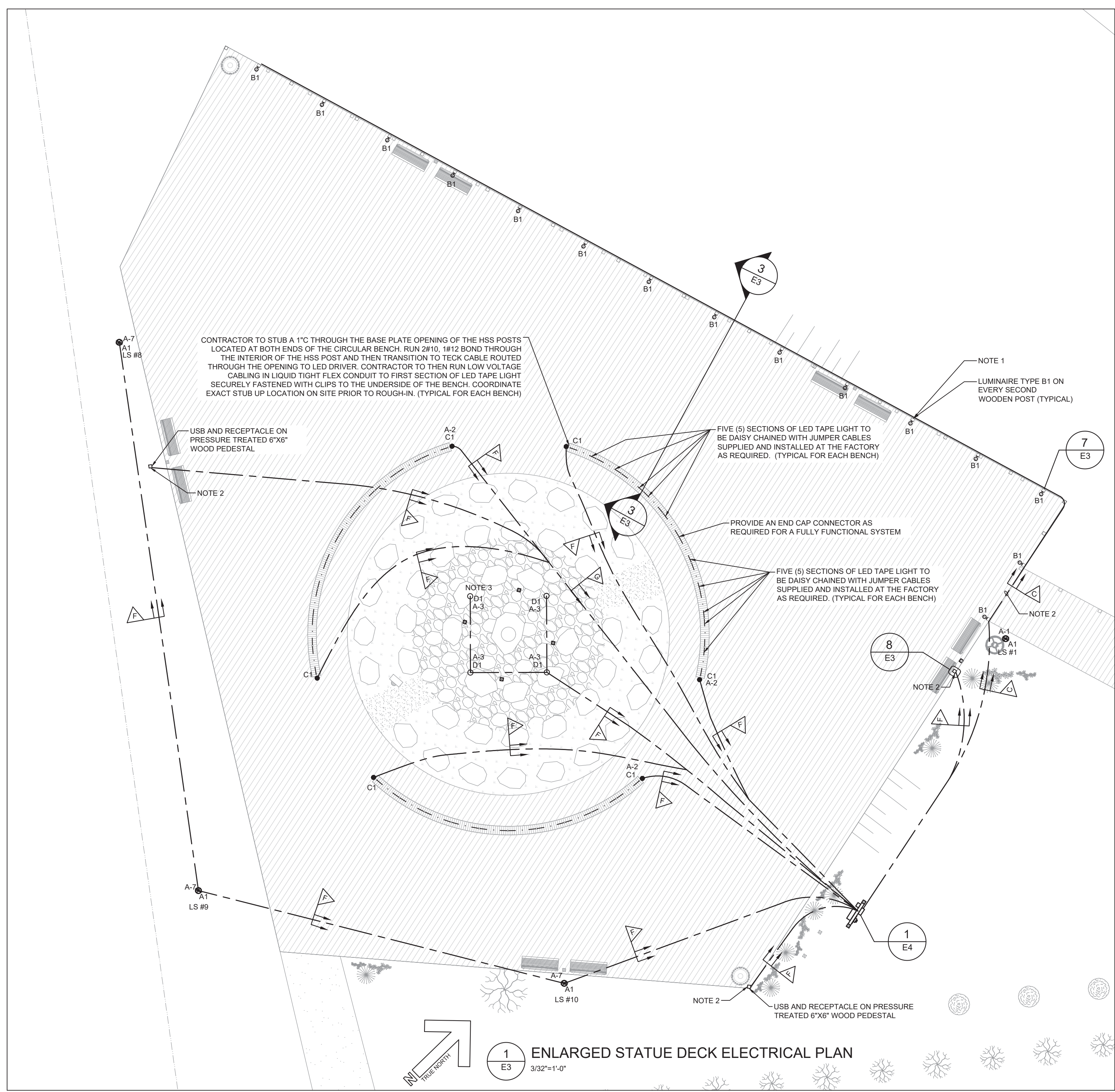
Client
Town of Stratford

Project Title
Stratford Waterfront
Gathering & Event Space

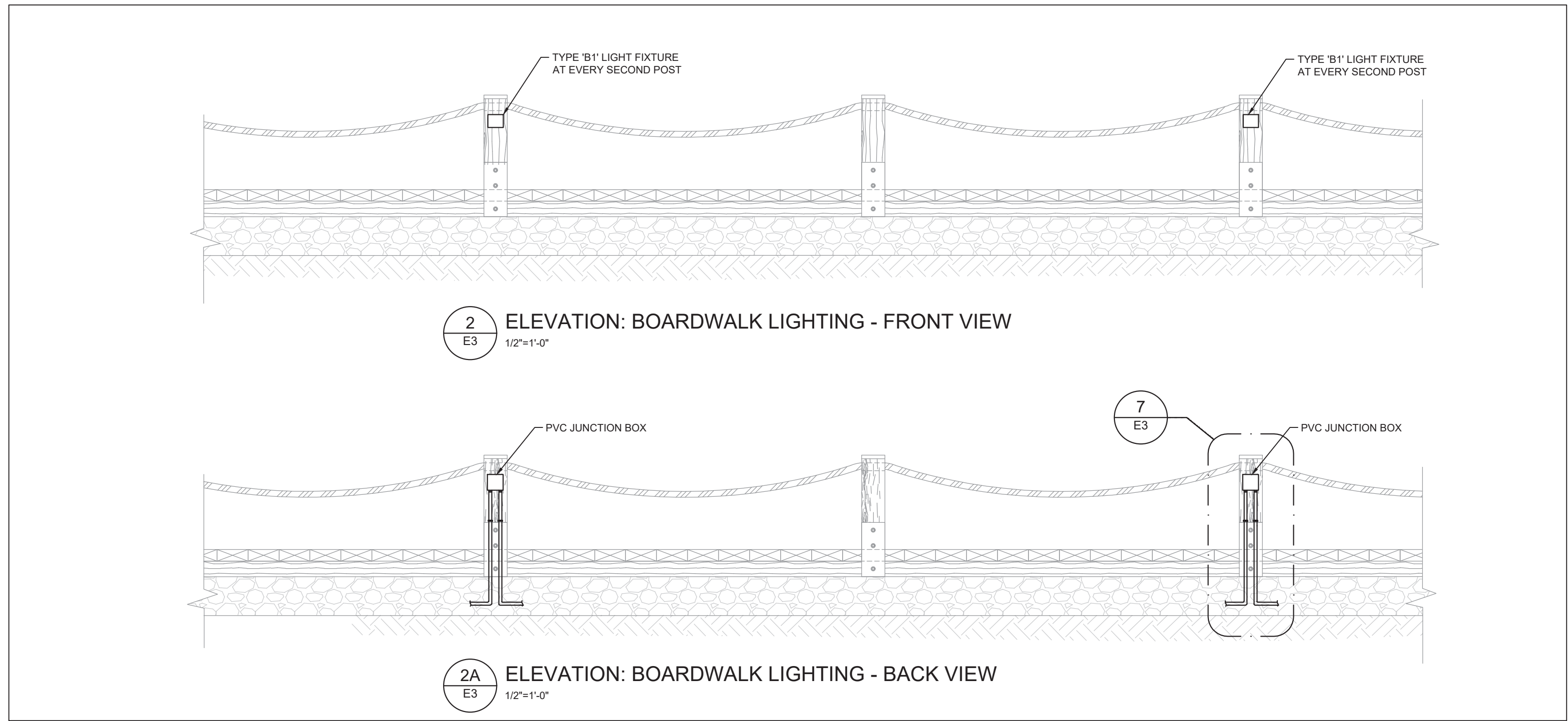
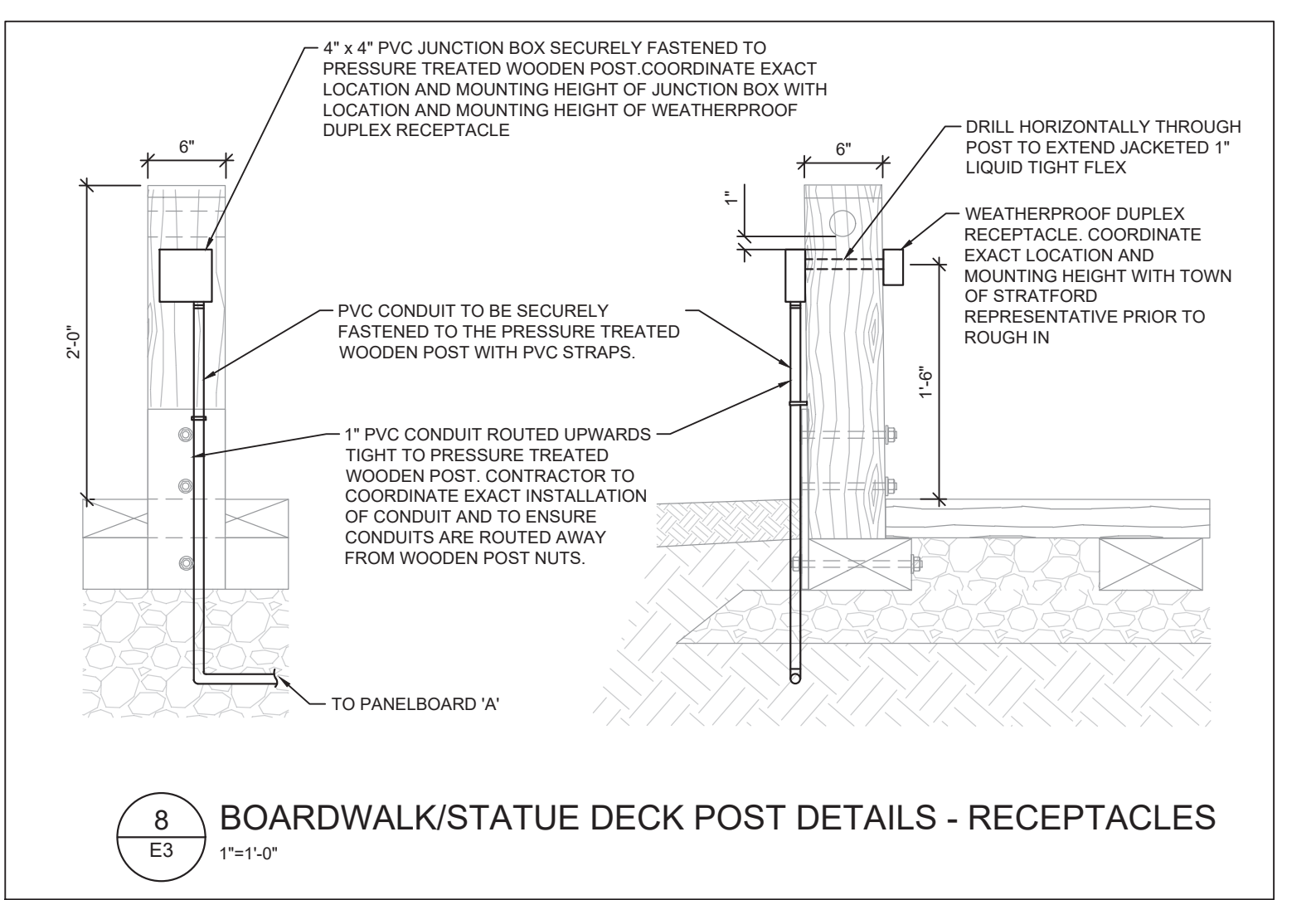
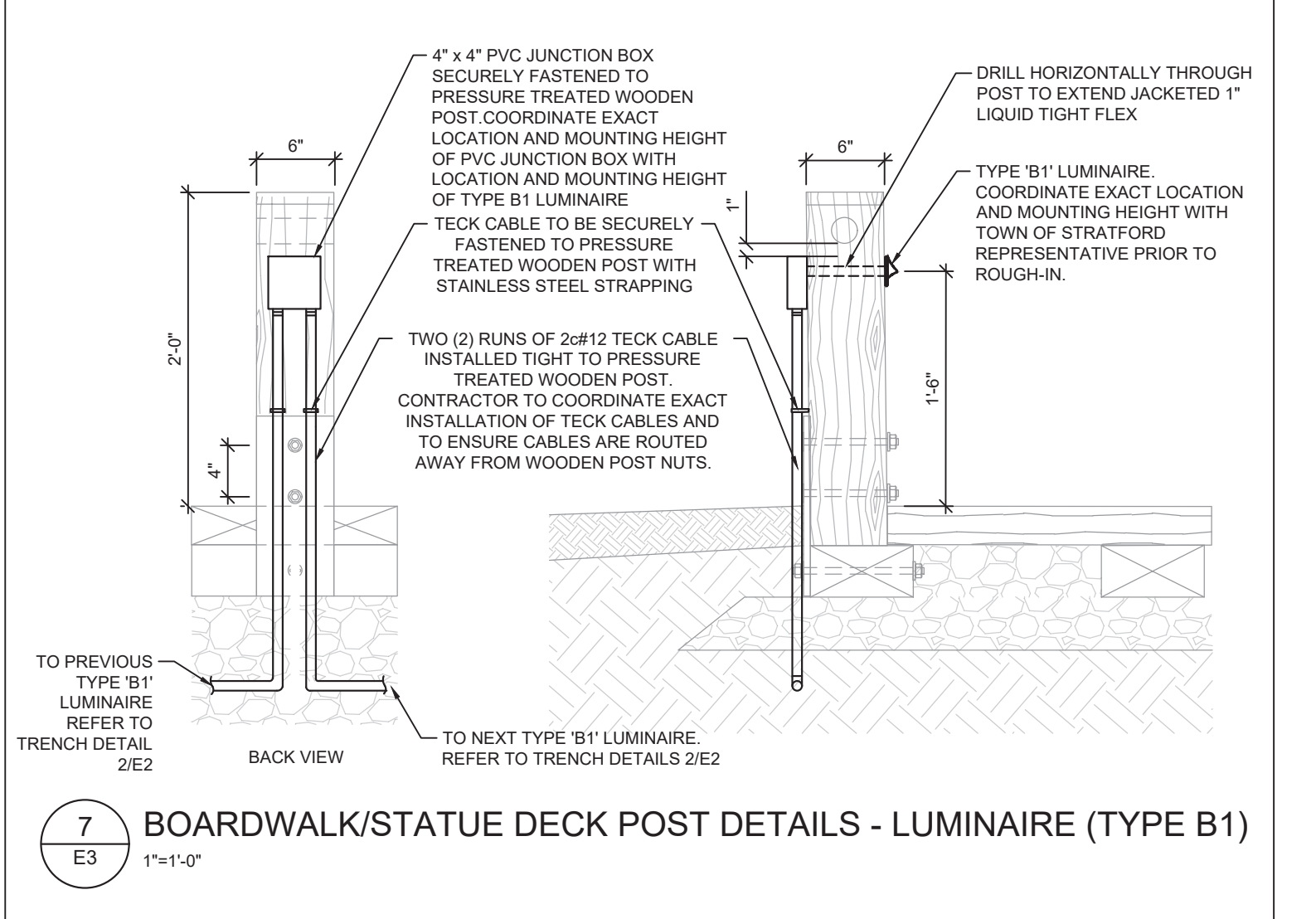
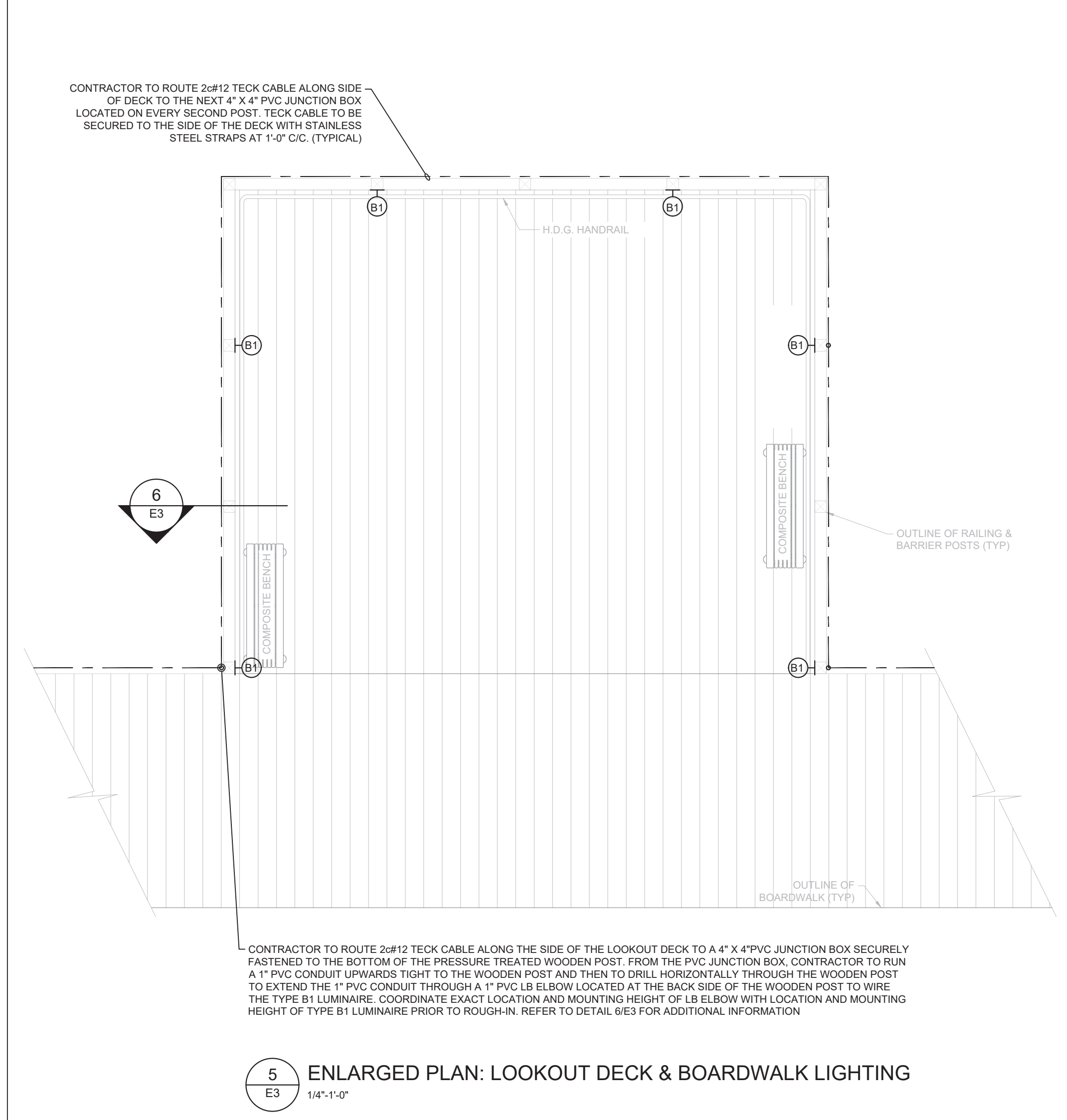
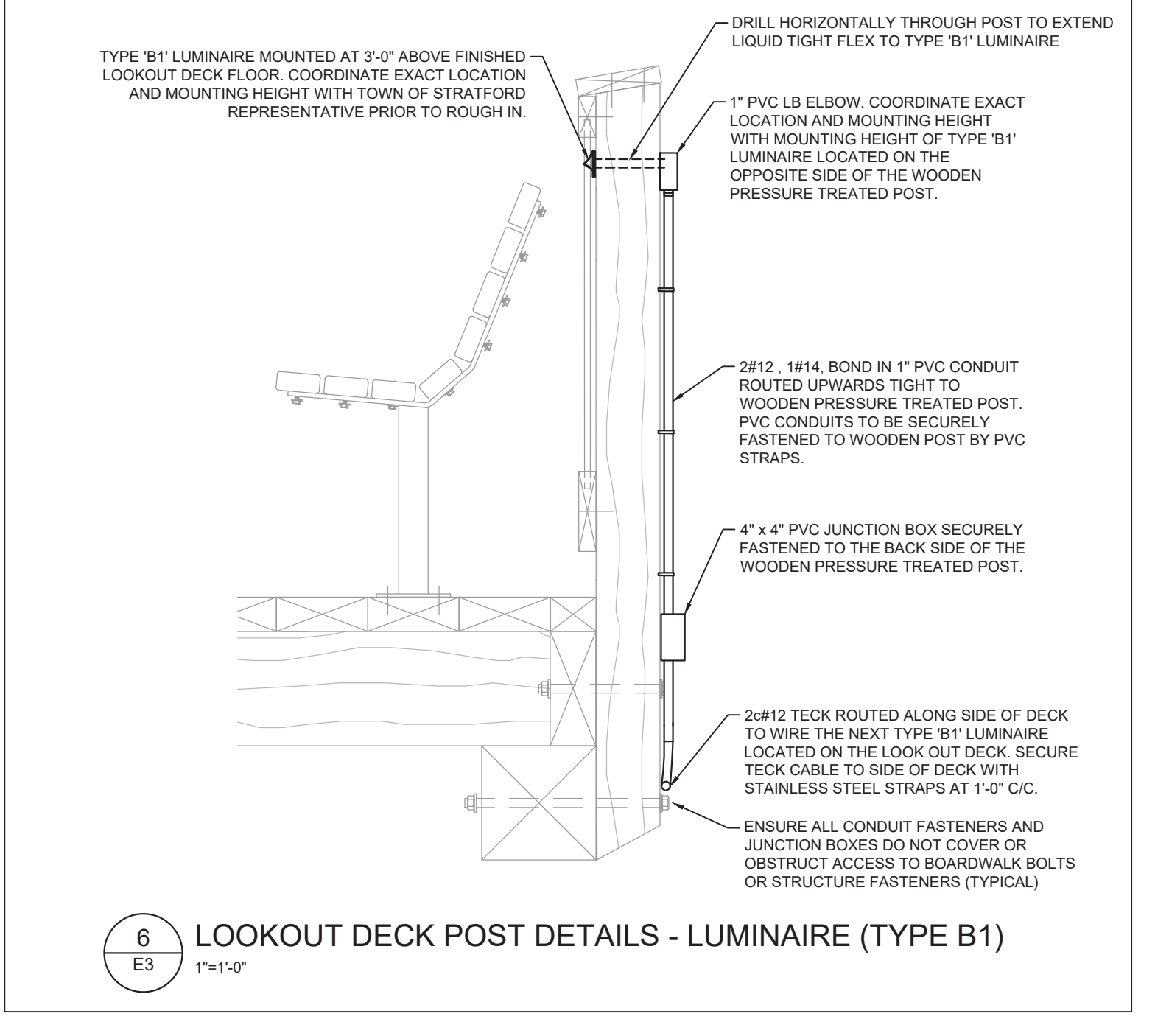
Sheet Title
Electrical Site Plan, Trenches & Details

No.	Description	Date	Date	Revision
0	Issued for Tender	2023-07-25	2023-07-25	1
Project Number:		221122		
Drawing Number:		E2		

1:1 PLOT DATE:



- GENERAL NOTES:**
- LOCATION OF ALL NEW LIGHTING FIXTURES STANDARDS AND ROUTING OF NEW AND EXISTING UNDERGROUND SERVICES TO BE MARKED OUT AND REVIEWED ON SITE WITH CONSULTANT AND TOWN OF STRATFORD REPRESENTATIVE PRIOR TO EXCAVATION
 - BRANCH CIRCUIT WIRING TO BE SIZED FOR A MAXIMUM VOLTAGE DROP OF 3% IN ACCORDANCE WITH CSA 22-1.21 ARTICLE 8-102
- NOTES:**
- CONTRACTOR TO ROUTE 2#12 TECK CABLE ALONG SIDE OF DECK AND THEN UPWARDS CONCEALED ALONG THE BACK SIDE OF THE PRESSURE TREATED WOODEN POST TO A 4" x 4" PVC JUNCTION BOX SECURELY FASTENED TO THE POST. CONTRACTOR IS THEN TO DRILL THROUGH THE WOODEN POST TO EXTEND A JACKETED 1" LIQUID TIGHT FLEX TO WIRE THE TYPE B1 LUMINAIRE. COORDINATE EXACT LOCATION AND MOUNTING HEIGHT OF PVC JUNCTION BOX WITH EXACT LOCATION AND MOUNTING HEIGHT OF TYPE B1 LUMINAIRE. TECK CABLE TO BE SECURELY FASTENED TO PRESSURE TREATED WOODEN POST WITH STAINLESS STEEL STRAPPING. REFER TO DETAIL 7/E3 FOR ADDITIONAL INFORMATION. (TYPICAL)
 - 1" UNDERGROUND PVC CONDUIT TO BE STUBBED AT THE BACK SIDE OF THE WOODEN PRESSURE TREATED POST AND ROUTED UPWARDS TIGHT TO THE POST TO A 4" x 4" PVC JUNCTION BOX. CONTRACTOR IS THEN TO DRILL THROUGH THE WOODEN PRESSURE TREATED POST TO EXTEND A JACKETED 1" LIQUID TIGHT FLEX TO THE WEATHERPROOF DUPLEX RECEPTACLE. COORDINATE EXACT LOCATION OF PVC JUNCTION BOX WITH THE LOCATION OF WEATHERPROOF DUPLEX RECEPTACLE ON SITE PRIOR TO ROUGH-IN. REFER TO DETAIL 8/E3 FOR ADDITIONAL INFORMATION. (TYPICAL)
 - TYPE D1 LUMINAIRE TO BE MOUNTED TO AN ALUMINUM GROUND MOUNT POST SUPPLIED WITH THE LIGHTING FIXTURE. GROUND MOUNT POST TO BE STUBBED 18" INTO THE GROUND FLOOR IN ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS. CONTRACTOR TO ROUTE 1" CONDUIT TO GROUND MOUNT POST AND THEN RUN 2#12, 1#14 BOND THROUGH THE INTERIOR OF THE POST AS REQUIRED TO WIRE LUMINAIRE. COORDINATE EXACT INSTALLATION, WIRING AND ANGLE ADJUSTMENT OF THE LIGHT FIXTURE ON SITE PRIOR TO ROUGH-IN. (TYPICAL)



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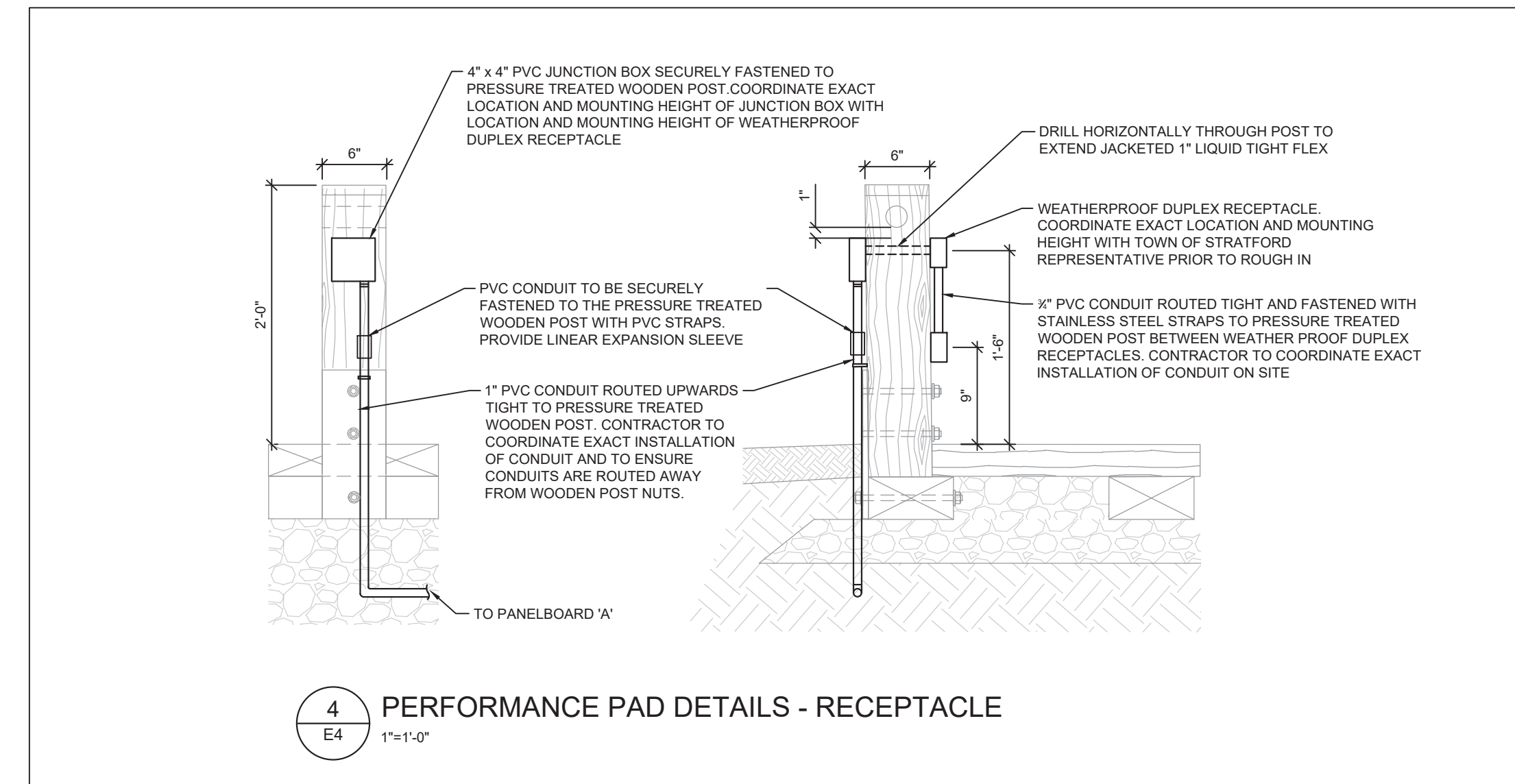
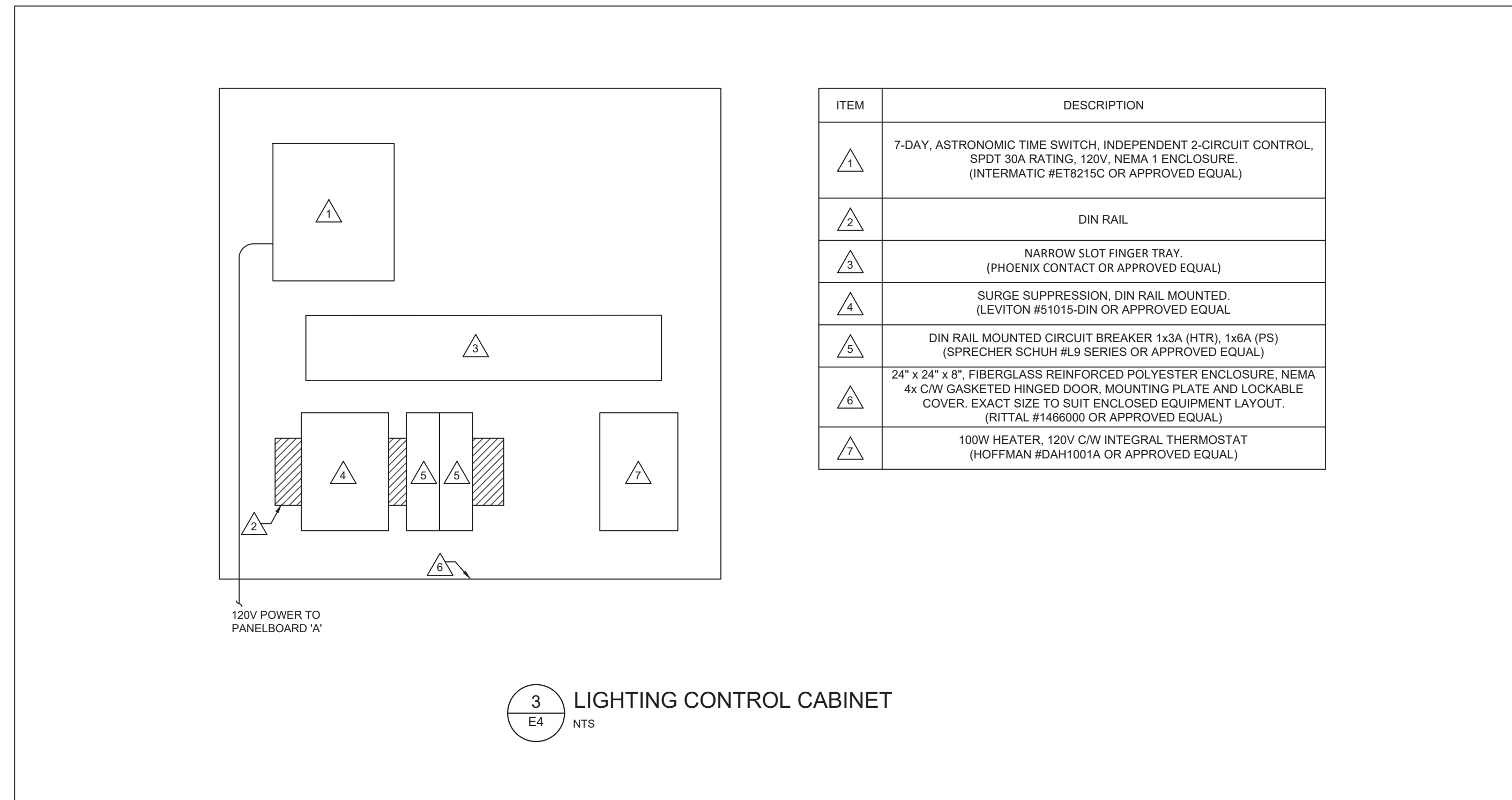
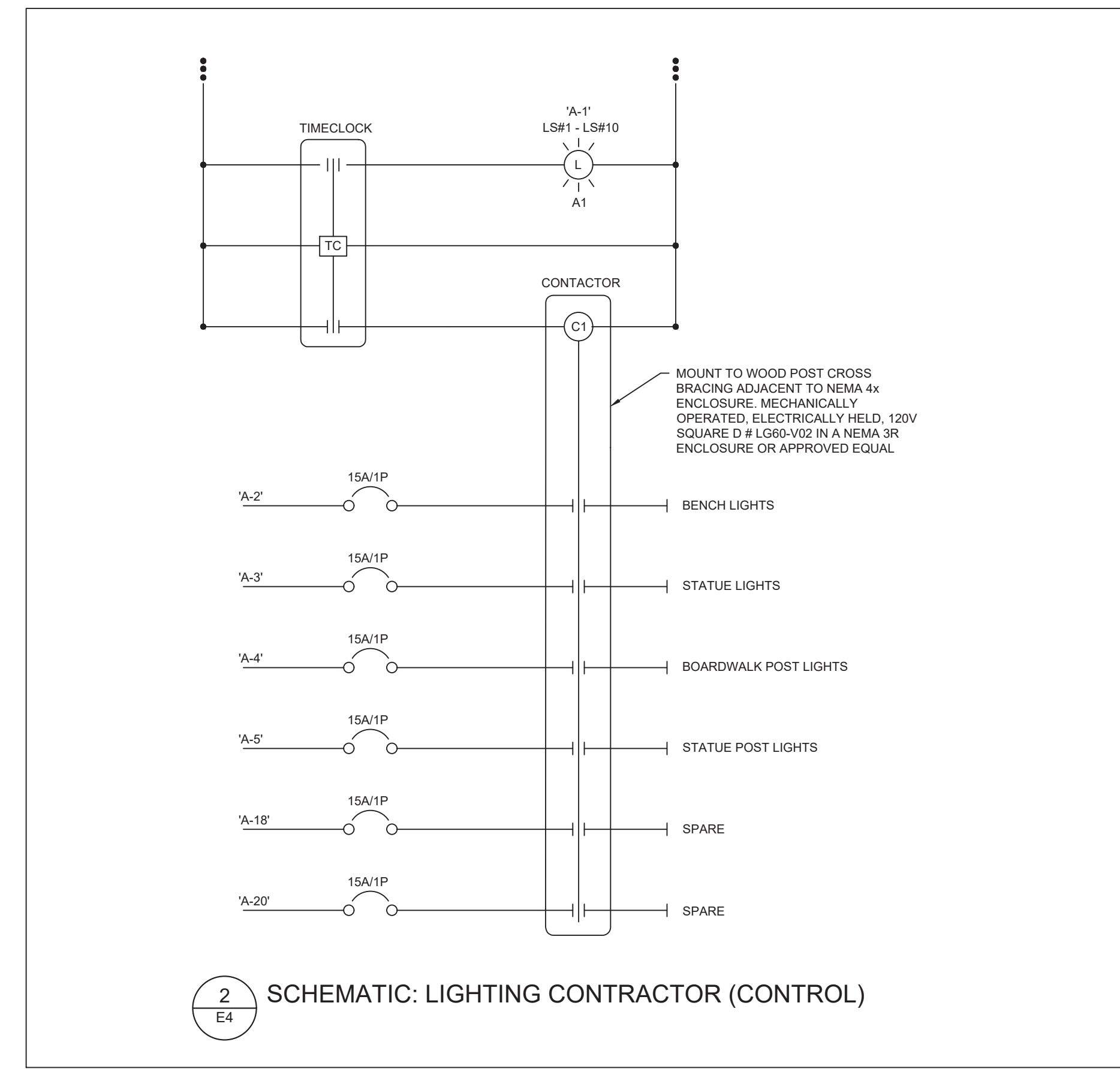
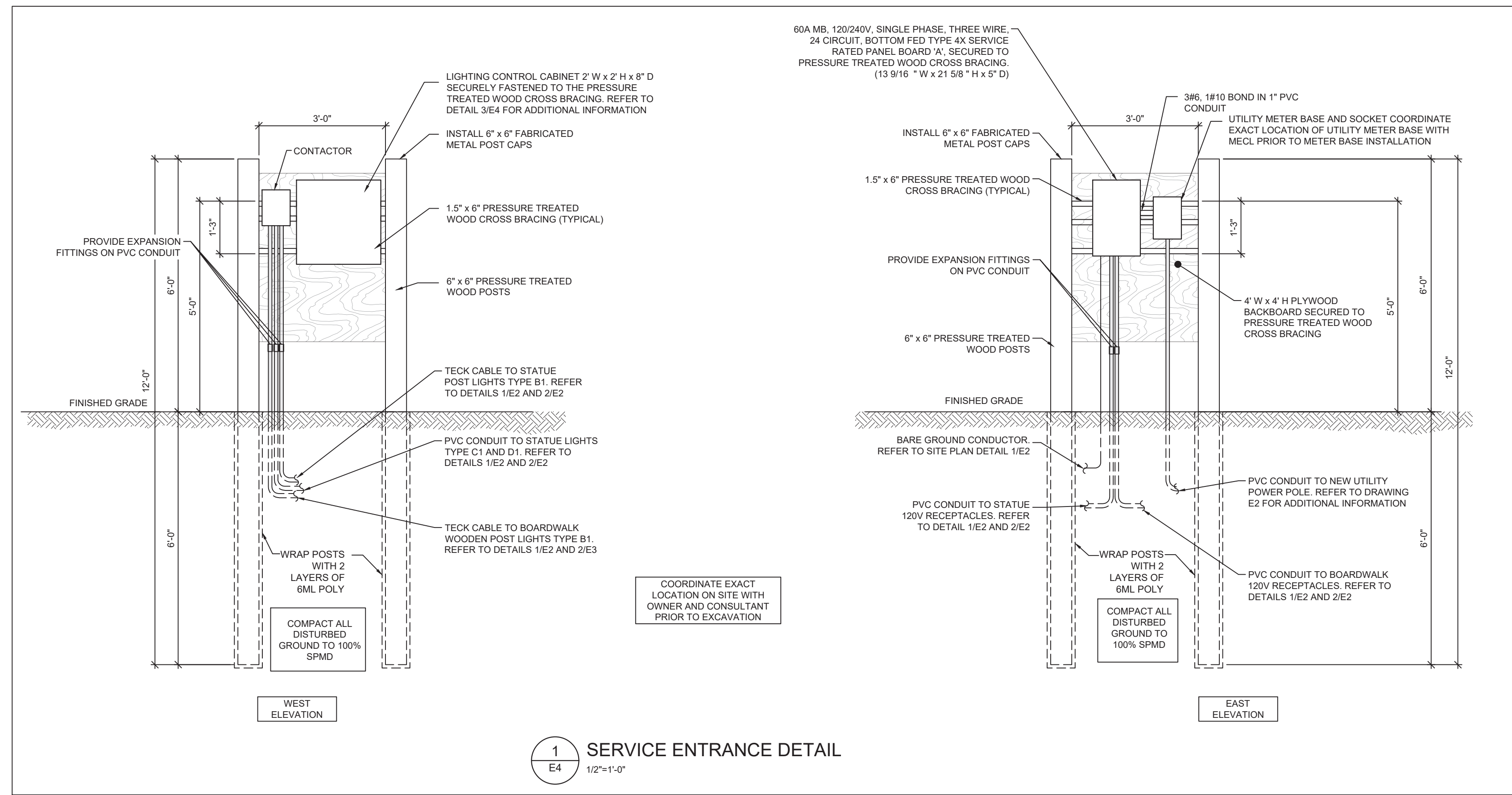
Professional Engineer
E. J. O'Neil
1620
25 OCT 2023
TOWN OF STRATFORD

Project Title
Stratford Waterfront Gathering & Event Space

Sheet Title
Statue & Lookout Deck Plans, Elevations & Details

No.	Description	Date	Date:	Revision
0	Issued for Tender	2023-07-25	2023-07-25	0
			Drawn By: A.Y. EIT / E.A. EIT	
			Checked By: E.S.C., P.Eng	
			Project Number: 221122	
			Drawing Number: E3	

1:1 PLOT DATE:



DESIGNATION	PANEL 'A'												DESIGNATION	
	LOAD			P	BKR	CIRCUIT	BKR	P	LOAD			DESIGNATION		
	A	B	C						A	B	C			
LIGHT STANDARDS (TYPE A1)	330			1	15	1	A	2	15	1	220			BENCH LIGHTS
STATUE LIGHTS		100		1	15	3	B	4	15	1	595			BOARDWALK POST LIGHTS
STATUE POST LIGHTS			128	1	15	5	C	6	15	1	480			RECEPTACLE: LIGHT STANDARD
LIGHT STANDARDS (TYPE A1)	465			1	15	7	A	8	15	1	120			RECEPTACLE: BOARDWALK
RECEPTACLE: STATUE		120		1	15	9	B	10	15	1	120			RECEPTACLE: BOARDWALK
RECEPTACLE: STATUE			120	1	15	11	C	12	15	1		120		RECEPTACLE: BOARDWALK
RECEPTACLE: STATUE	120			1	15	13	A	14	15	1	480			RECEPTACLE: LIGHT STANDARD
RECEPTACLE: PERFOR. PAD		600		1	15	15	B	16	15	1	480			RECEPTACLE: LIGHT STANDARD
RECEPTACLE: PERFOR. PAD			600	1	15	17	C	18	15	1				SPARE
SPARE				1	15	19	A	20	15	1				SPARE
SPACE							21	B	22					SPACE
SPACE							23	C	24					SPACE
PHASE LOADS:	915	820	848								820	1195	600	
TOTAL PHASE LOADS:	1735	2015	1448								SUPPLY: 120/208V, 3Ø, 3w			
TOTAL LOADS:	5198										MANS: 60A MLO (SERVICE RATED)			
											NUMBER OF CIRCUITS: 24			
CURRENT AT 208V/3PH:	14										MOUNTING: SURFACE			

(*) INDICATES LOCKING BREAKER

TYPE	DESCRIPTION	SOURCE	MOUNTING
A1	31-3/4" HIGH X 18-1/4" WIDE, DECORATIVE SPLIN ALUMINUM LED MOUNTED ON A CAST ALUMINUM COLLAR, ROUND IN SHAPE UV RESISTANT ACRYLIC RIBBED GLOBE, ROUND SHAPE ALUMINUM BASE C/W FOUR ARMS AND A DECORATIVE RING ALL WELDED TOGETHER AND INSTALLED ON THE BASE MODULE, MARINE GRADE PRE-FINISH, BLACK FINISH, IP66 RATED, TYPE 3 DISTRIBUTION, 120V DRIVER, POLE TO BE ROUND, 4" DIAMETER ALUMINUM, 12\"/>		