



ADDENDUM

PROJECT TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION	ADD. NO: 2
TENDER NO: 2022-081201T	DATE: July 7 th , 2022
PAGE 1 of 2 (Including Confirmation Sheet)	

Make the following modifications to the above project. Include in the amount of the Tender, any additions to or deductions from the cost of the work by reason of these instructions.

Sign and attach this Addendum to the Tender documents and submit with your Tender. Failure to do so may result in the rejection of your Tender.

Please find attached Addendum #2.

The date for receiving tenders is extended to: Tuesday, July 19th, 2022 at 2:30:00PM Atlantic Time.

The date for enquiries is extended to: July 12th, 2022 at 4:00:00 PM Atlantic Time.

The date for issuing addenda #3 is July 14th, 2022 at 4:00:00 PM Atlantic Time.

Please note that in light of the current Covid-19 pandemic, there will be no public opening. Tenders will be opened by the Tender Opening Committee, in the second-floor boardroom, 175 Rothesay Avenue, Municipal Operations Complex, immediately following the tender closing time. **Registered bidders may attend remotely via Teams invitation.**

SIGN AND RETURN THIS ADDENDUM WITH YOUR PROPOSAL

BY: Monic MacVicar
Monic MacVicar, CCLP, CPPB
Procurement Specialist, Supply Chain Management

Contractor's Signature



ADDENDUM

PROJECT TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION	ADD. NO: 2
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PAGE 2 of 2 (Including Confirmation Sheet)	

CONFIRMATION - RECEIPT OF ADDENDUM

**Upon receipt of this document, fax this page to
(506) 658-4742 to confirm receipt of this addendum.**

CONTRACTOR'S NAME: _____

ADDRESS: _____

PHONE: _____ FAX: _____

RECEIVER NAME (PRINT) _____

RECEIVER SIGNATURE: _____

ELECTRONIC TRANSMITTAL SHEET

TO: All Bidders

E-Mail: _____ DATE: July 7, 2022

TOTAL NUMBER OF PAGES (INCLUDING COVER PAGE) _____

FROM: _____ TEL. #: 658-2899
Supply Chain Management

IF YOU DID NOT RECEIVE ALL PAGES, OR FURTHER INFORMATION IS REQUIRED,
PLEASE CONTACT THE SENDER.

MESSAGE:

TENDER NO. 2022-081201T

PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION

Please find attached, copy of **Addendum # 2** for above contract.
Please complete the attached ***Acknowledgement Form*** confirming
Receipt of Addendum and email back to City of Saint John.



MUNICIPAL OPERATIONS & ENGINEERING

175 Rothesay Avenue
Saint John, NB E2J 2B4

City of Saint John

A D D E N D U M

PROJECT TITLE:

Public Space at Market Slip & Harbour Passage Extension

ADDENDUM NO: 2

DATE July 7, 2022

PAGE 1 OF 2

CONTRACT NO: 2022-081201T

MAKE THE FOLLOWING MODIFICATIONS TO THE ABOVE PROJECT. INCLUDE IN THE AMOUNT OF THE TENDER ANY ADDITIONS TO OR DEDUCTIONS FROM THE COST OF THE WORK BY REASON OF THESE INSTRUCTIONS. THE DATE FOR RECEIVING TENDERS IS EXTENDED TO: **July 19th, 2022.** Question period closes **July 12th 2022** and the final addendum will be issued on the **July 14th 2022.**

GENERAL QUESTIONS

1. Question - Could we have a specific timeline for the city supplied materials
Answer – Please refer to Site Coordination Drawing – RFP INFO SUMMARY.
2. Question - Can we demo washroom building as moving is not feasible due to cost to relocate and size and construction of building.
Answer – No. A line item has been included in Division 4.5 for relocation of existing washroom building.
3. Question - Will they accept substitutes of plants as all will not be available in that quantity
Answer – See City of Saint John General Specification 6.36 Equivalents.
4. Question - Could the city supply miscellaneous metal structures.
Answer – No.
5. Question - Would the city consider removing audio video equipment and other specialty items from the contract as no one will price for 12-18 months delivery or will the city pay for material onsite but not installed.
Answer – For payment of materials on site see general specification 6.21.01 interim payments.
6. Question - will there be any protection for cost increases for metal, plants, rebar, concrete and diesel fuel.
Answer – No.
7. Question - Are there any cash flow restrictions on this project?
Answer – Payment will be in accordance 6.20 Completion and 6.21 payment certificates.
8. Question – will we have to carry an additional insurance for city supplied items and if what values.
Answer – See General specification article 7.6.02 Supply, Delivery and Storage.

GENERAL ITEMS

The contractor will supply a site office for the duration of construction that will facilitate the following;

- An office for the lead consultant or their representatives to use while visiting the site.
- An meeting space to be available for use by contractor and consultant.
- Power and Air Conditioning.
- Contractor to furnish trailer.

Cost for site office to be included under Division 4.5 item T1.

TO THE DRAWINGS

The attached drawings M4.1, M4.2 and M4.3 have been added to the drawing package. The work shall entail all underground ventilation - HDPE direct burial duct system. The price of this work shall fall under Division 4.5 MISC item no 6.

TO DIVISION 4.5 – SCHEDULE OF QUANTITIES

Replace Division 4.5 with Issued for Addendum No.2 version

Note: Signed copy of the addendum **must** be enclosed in the tender documents, according to the Instructions to Tenderers and Tendering Procedures in Division 2 of the Contract Specifications.

BY:

Monic MacVicar, CCLP, CPPB
Procurement Specialist, Supply Chain Management

CONTRACTOR'S SIGNATURE

TO BE SIGNED AND ATTACHED TO TENDER DOCUMENTS



**MUNICIPAL OPERATIONS
& ENGINEERING**

175 Rothesay Avenue
Saint John, NB E2J 2B4



EMAIL TO:

supplychainmanagement@saintjohn.ca

***ACKNOWLEDGEMENT FORM
CONFIRMING RECEIPT OF ADDENDUM***

CONTRACT NO: 2022-081201T

ADDENDUM NO:

2

DATE

July 7, 2022

CONTRACTOR <i>(Name and Address)</i>	TELEPHONE #	RECEIVER	
		<i>(Signature)</i>	<i>(Please Print)</i>
	FAX #		

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

UNIT PRICE TO BE EITHER
TYPEWRITTEN OR
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AND PRINTED
NUMERICALLY

CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION
ISSUED FOR ADDENDUM NO. 2

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
A	WATER						
1	<u>Pipelaying & Jointing: Watermain - Supply & Install</u>	7, 10					
a	25mm Ø Municipex cross-linked polyethylene (PEX) or Q-line (PE RT) Tubing including tracer wire and connections (Fountain tubing)		LS	1			
b	25mm Ø Municipex cross-linked polyethylene (PEX) or Q-line (PE RT) Tubing including tracer wire, heat trace and connections		m	65			
c	19mm Ø Municipex cross-linked polyethylene (PEX) or Q-line (PE RT) Tubing including tracer wire and connections		m	55			
d	150mm Ø PVC, DR18, Class 150 or approved equal including tracer wire and connections		m	6			
e	Supply and install 50mm thick insulation		m ²	21			
f	Non-freeze post-mount hydrant		Each	2			
g	Flush-mount, non-freeze ground hydrant		Each	1			
h	Fire hydrant complete, including anchor tee, 150mm GV, 130mm VB, restraints, concrete thrust blocks, vertical piping, polyethylene encasement, tracer wire and Storz pumper nozzle		Each	1			
i	Free standing inlet fire department connection including anchor tee, restraints, concrete thrust blocks, vertical piping, polyethylene encasement, tracer wire, concrete core, and repair to waterproofing membrane as required.		Each	1			

DIVISION 4
SCHEDULE OF QUANTITIES AND UNIT PRICES

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					WRITTEN	NUMERICAL	
2	<u>Contingency</u>	2.6.03	LS	1	Seven Thousand Nine Hundred Dollars and Zero Cents	7,900.00	7,900.00
	AMOUNT "A" (WATER)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

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					WRITTEN	NUMERICAL	
B	STORM SEWER						
1	<u>Pipelaying & Jointing: Storm Sewer - Supply & Install</u>	7, 11					
a	200mm Ø PVC, DR35 with gasket or approved equal		m	37.7			
b	250mm Ø PVC, DR35 with gasket or approved equal		m	29.9			
c	375mm Ø PVC, DR35 with gasket or approved equal		m	23			
d	450mm Ø concrete, class III with gasket or approved equal inc. gasket, fittings and apputtenances (bedding stone, filter fabric, check valve, etc.)		m	25.7			
e	1050mm Ø concrete, class 5 outfall for salt water exposure inc. gasket, joint restraints fittings and apputtenances (bedding stone, filter fabric, check valve, etc.)		m	40			
f	Connection of new 200mm Ø pipe to existing 200mm Ø pipe incl. coupling		Each	1			
g	Core drill opening into existing pre-cast manhole and connect new pipe		Each	7			
h	Brick and grout pipe(s) inside existing manhole		Each	4			
i	Supply and install 50mm thick insulation		m ²	20			
j	Cleaning and video 900mm Ø storm sewer. Work includes all works required for access, CCTV video of cleaned lineas required.		m	60			

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					WRITTEN	NUMERICAL	
2	<u>Manholes - Supply & Install</u>	12					
a	317x317 Stainless Steel drain box for skating rink drainage, complete with all connections		Each	1			
b	750mm Ø precast catch basin manhole, complete with City standard frame and Iron Age cover, incl. all connections		Each	1			
c	1050mm Ø precast catch basin manhole, complete with City standard frame and Iron Age cover, incl. all connections		Each	1			
d	Supply and install precast concrete headwall complete with wing walls. Installation includes connection to storm sewer and all necessary excavation and backfill		Each	2			
e	Supply & install culvert outlet grate - to be used at all storm sewer outlet locations where pipe Ø < 1050mm.		Each	2			
f	Supply & install trench drain and grate, including concrete, PVC bend, eccentric reducer and connection to existing service lateral		Each	7			
g	Supply of spare Iron Age catchbasin cover		Each	4			
3	<u>Contingency</u>	2.6.03	LS	1	Twenty Six Thousand Two Hundred Dollars and Zero Cents	26,200.00	26,200.00
	AMOUNT "B" (STORM SEWER)						

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					WRITTEN	NUMERICAL	
C	ADJUSTMENT OF STRUCTURES						
1	<u>Adjustment and Rebuilding of Manholes, Catch Basins and Valve Boxes</u>	12, 03					
a	Adjust top section to finish grade as required, using <u>existing</u> frame & cover or frame & grate including top 5 cm		Each	30			
b	Adjust top section to finish grade as required, using <u>new</u> Standard frame & grate including top 5 cm		Each	1			
2	<u>Contingency</u>	2.6.03	LS	1	One Thousand Two Hundred and Fifty Dollars and Zero Cents	1,250.00	1,250.00
	AMOUNT "C" (ADJUSTMENT OF STRUCTURES)						

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					WRITTEN	NUMERICAL	
D	SITE WORK						
1	<u>Drain Tile</u>						
a	100mm Ø PVC DR35 including connections, excavation, geotextile, fabric and backfill	13, 24	lm	50			
b	150mm Ø PVC DR35 including connections, excavation, geotextile fabric, and backfill	13, 24	lm	800			
2	<u>Excavation</u>						
a	Rock Excavation	13	m ³	100			
b	Common Excavation	13	LS	1			
3	<u>Granular & Rip Rap</u>						
a	Granular Base (crushed rock, Type 1 Fill) under unit pavers, asphaltic cement, tidal steps and Rock Pool Pad	13	m ³	1465			
b	Granular Sub-base (crushed rock, Type 2 Fill) under unit pavers	13	m ³	2500			
c	Granular Sub-Base (pit run gravel, Type 3 Fill) under unit pavers, asphaltic cement and Rock Pool Pad	13	m ³	2100			
c	Granular Sub-Base (pit run gravel, Type 3 Fill) used to bring site to grade	13	m ³	5600			
d	Drainage Stone	13	m ³	100			
e	Bedding Sand placement only	13	m ³	50			

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					WRITTEN	NUMERICAL	
f	R25 Rip Rap Supply and placement	20	tonnes	225			
g	R250 Rip Rap Supply and placement	20	tonnes	185			
h	Random Rip Rap placement only of city supplied onsite material	20	LS	1			
i	Placing of onsite city supplied sand	13	LS	1			
4	<u>Fabrics & Insulation</u>						
a	Geotextile Fabric Tidal Steps	13, 313219.01	m ²	982			
b	Geogrid Under Pavers	13, 313219.01	m ²	1171			
c	Silt Fence	13	lm	500			
d	Check Dam	13	Each	3			
e	Door Pad Insulation	13	Each	16			
f	Floating Silt Fence		lm	50			
g	Erosion Sedimentation and Control Plan.		LS	1			
5	<u>Contingency</u>	2.6.03	LS	1	Fifty Two Thousand Eight Hundred Dollars and Zero Cents	52,800.00	52,800.00
	AMOUNT "D" (SITE WORK)						

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					WRITTEN	NUMERICAL	
E	ASPHALT						
1	<u>50mm upper course <0.3 million ESALs</u>	27	tonnes	275			
2	<u>50mm lower course <0.3 million ESALs</u>	27	tonnes	275			
3	<u>Asphalt epoxy coating</u>	27, 321216.02	m ²	2032			
4	<u>Contingency</u>	2.6.03	LS	1	Nineteen Thousand Three Hundred Dollars and Zero Cents	19,300.00	19,300.00
	AMOUNT "E" (ASPHALT)						

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
F	GRANITE						
1	<u>Install City supplied Granite Interpretative Blocks inclusive of bedding and joint sand including engraving</u>	040513 321413	Each	9			
2	<u>Install City supplied Granite Cobbles inclusive of bedding sand and joint sand</u>	040513 321413	m ²	377			
3	<u>Install City supplied Granite Slab Landings on Concrete Base including bonding agent, anchor pins and cutting to fit</u>	040513	m ²	80			
4	<u>Install City supplied Granite Slabs (salvaged granite curb) on Concrete Walls including bonding agent, anchor pins and cutting to fit</u>	040513	Lm	68			
5	<u>Install City supplied Granite Slabs (Island Extrusions) on Grade including base gravel</u>	040513	Each	97			
6	<u>Supply and install Granite Boulders including base gravel</u>	040513	Each	36			
7	<u>Install City supplied Granite Steps on concrete base including bonding agent, pins, and cutting as necessary</u>	040513	Each	101			
8	<u>Install City supplied Pilot Granite Blocks including base gravel</u>	040513	Each	4			
9	<u>Install City supplied Reclined Retaining Wall Granite Blocks on concrete base including bonding agent, pins, and cutting as necessary</u>	040513	Each	24			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
10	<u>Install Contractor Supplied Granite Steps on concrete base including bonding agent, pins, and cutting as necessary</u>	040513	Each	50			
11	<u>Install City Supplied Amphitheatre Granite Blocks on concrete base including bonding agent, pins, and cutting as necessary</u>	040513	Each	32			
12	<u>Contingency</u>	2.6.03	LS	1	Twenty Eight Thousand Seven Hundred Dollars and Zero Cents	28,700.00	28,700.00
	AMOUNT "F" (GRANITE)						

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					WRITTEN	NUMERICAL	
G	CONCRETE						
1	<u>Portland Cement Concrete (Mud Slabs) under tidal granite steps, slabs & walls</u>	23, 031000	m ³	40			
2	<u>Reinforced Portland Cement Concrete under tidal granite steps, slabs & walls</u>	23, 032000	m ³	20			
3	<u>Reinforced Portland Cement Concrete Retaining Walls Tidal Steps</u>	23, 032000	Lm	36			
4	<u>Reinforced Portland Cement Concrete Retaining Walls Tidal Steps</u>	23, 032000	Lm	12			
5	<u>Rock Pool Stamped and Coloured Portland Cement Concrete including joint cutting and sealer</u>	23, 033000	m ²	155			
6	<u>Concrete, reinforced Light Bases inclusive of conduit in base for Shuffle & Bora</u>	23, 032000	Each	58			
7	<u>Glazed Structure Concrete Foundations and Coordination of Architectural M&E Works (by Others)</u>	23, 133413	Each	16			
8	<u>Concrete Sidewalk Coloured</u>	23, 033000	m ²	50			
9	<u>Concrete Curb</u>	23	lm	60			
10	<u>Concrete Curb and Gutter</u>	23	lm	90			
11	<u>Lighthouse Roof Structure</u>	23	LS	1			

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					WRITTEN	NUMERICAL	
12	<u>Contingency</u>	2.6.03	LS	1	Sixty One Thousand Dollars and Zero Cents	61,000.00	61,000.00
	AMOUNT "G" (CONCRETE)						

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H	ICE RINK						
1	<u>Install City supplied Chiller and Equipment Installation, glycol, commissioning for a full working system</u>	132000	LS	1			
2	<u>Ice Rink Pad Portland Cement Concrete, stamped reinforced, grading, sealer, insulation, piping, aluminum edger, white roll, logo, for a full working system</u>	23, 032000, 033000, 132000, 133000	m ²	562			
3	<u>Crushed Rock Base</u>	13	m ³	85			
4	<u>Pit Run Sub base</u>	13	m ³	170			
5	<u>Screenings</u>	13	m ³	42			
6	<u>Contingency</u>	2.6.03	LS	1	Fifty Nine Thousand Dollars and Zero Cents	59,000.00	59,000.00
	AMOUNT "H" (ICE RINK)						

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I	BUILDING STRUCTURES						
1	<u>Stage/Washrooms/Green Room/M&E Room including foundation, excavation and backfill</u>		LS	1			
2	<u>Contingency</u>	2.6.03	LS	1	Seventy Seven Thousand One Hundred Dollars and Zero Cents	77,100.00	77,100.00
	AMOUNT "I" (BUILDING STRUCTURES)						

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J	CARPENTRY						
1	<u>IPE Cladding on textured concrete walls including hardware, spacers, oil sealer</u>	061001, 062000	m ²	35			
2	<u>Contingency</u>	2.6.03	LS	1	Eight Hundred Dollars and Zero Cents	800.00	800.00
	AMOUNT "J" (CARPENTRY)						

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K	LANDSCAPING						
1	<u>Supply and install Topsoil</u>	329119.13	m ³	122			
2	<u>Supply and install Planting Soil</u>	329119.13	m ³	1110			
3	<u>Supply and install Sodding</u>	329223	m ²	610			
4	<u>Supply and install planting of trees, shrubs and ground cover</u>	329310	LS	1			
5	<u>Supply and install Silva Cells</u>	329451	m ³	165			
6	<u>Supply and install Silva Cell Planting Soil</u>	329456	m ³	150			
7	<u>Supply and install Tree Root Barrier</u>	329456, 329413	m ²	170			
8	<u>Contingency</u>	2.6.03	LS	1	Thirty Seven Thousand Three Hundred Dollars and Zero Cents	37,300.00	37,300.00
	AMOUNT "K" (LANDSCAPING)						

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L	MECHANICAL						
1	<u>Louvre Vent Stack ducts and piping</u>		LS	1			
2	<u>Coordination of Patio Air Handling and Heating (by others)</u>		LS	1			
3	<u>Install City supplied Rock Pool Equipment, and various requirements in buidling and on pad</u>	440000	LS	1			
4	<u>Contingency</u>	2.6.03	LS	1	Fifteen Thousand Five Hundred Dollars and Zero Cents	15,500.00	15,500.00
	AMOUNT "L" (MECHANICAL)						

DIVISION 4

SCHEDULE OF QUANTITIES AND UNIT PRICES

UNIT PRICE TO BE EITHER
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CONTRACT NUMBER 2022-08120T

TITLE: PUBLIC SPACE AT MARKET SLIP & HARBOUR PASSAGE EXTENSION
ISSUED FOR ADDENDUM NO. 2

ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
M	ELECTRICAL						
1	<u>Island</u>						
a	Island 1 - Tree light, City Supplied Light Fixture installation Complete with trench (T6) and wiring back to island 2		LS	1			
b	Island 2 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to Island 3		LS	1			
c	Island 3 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to island 4		LS	1			
d	Island 4 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to island 5		LS	1			
e	Island 5 Tree Light Posts, city supplied Light Fixture Installation Complete with trench (T6) and wiring back to Stage Building Electrical Room		LS	1			
f	Island 9 City Supplied Light Fixture installation, wiring and trench (T6) to island 10		LS	1			
g	Island 10 City Supplied Light Fixture installation, wiring and trench (T6) back to stage electrical room		LS	1			
h	Island 11 Tree light Posts, city supplied Light Fixture Installation, wiring and trench (T6) back to Island 10		LS	1			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
i	Island 12 tree light posts complete with plug, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1			
j	Island 13 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1			
k	Island 14 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1			
l	Island 15 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1			
m	Island 16 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1			
n	Island 17 tree light posts complete with plug, city supplied light fixture installation, and Bench lighting complete with wiring and controls back to Island Pull Box. trench (T6) and Wiring back to stage building		LS	1			

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					WRITTEN	NUMERICAL	
2	o Island 18 Lighth Fixture Installation, trench (T6), Wiring, and controls back Stage Building Electrical Room		LS	1			
	p Bollard Heat Trace Complete with trace wiring, components, controllers, trench (T6), power cable back to Stage Building Electrical Room		LS	1			
	q trench (T6), wiring, receptacle, and pedestal for Food Trucks		LS	1			
	r Promenade Light fixture installation, wiring and trench (T6) back to island 10		LS	1			
	s Book Nook Lighting installation, trench (T6) and wiring back to nearest light fixture		LS	1			
	<u>Fundy Quay</u>						
	a Wiring, trench (T6), controls, hand rail light fixtures, arcitectural light fixtures, and city supplied light fixtures along Fundy Quay		lm	400			
	b Fundy Quay Light Tubes, Junction Box, Wiring, and trench (T6) back to Fundy Quay Power and Lighting Controls Pedestal		Each	8			
	c Fundy Quay Power and light Pedstal, trench (T2), and wiring back to Stage Building Electrical Room		Each	2			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
3	<u>Tidal Steps</u>						
a	Wiring, Conduit, controls, and light fixtures for Sea Wall Wall Wash along Fundy Quay and promanade		Each	10			
4	<u>Stage Building</u>						
a	Conduit and wiring from Stage Building to Splash Pad. Wiring of splash pad components back to distribution		Lm	50			
b	Stage RGB wall wash lighting, Ice Rink RGB Lighting complete with controls, wiring and fixtures		Each	14			
c	Stage Building Washrooms, Electrical Room, Mechanical Room, and Basement Lighting, wire, conduit, control devices. Stage Concert lighting and twist lock receptacles complete with wiring and DMX cable back to Green Room. Stage sound equipment audio console, audio snakes, speakers, monitors, power amplifiers, power conditioner, input devices, stands and installation	276000	LS	1			
d	Chiller power wiring and controls wire complete with conduits		LS	1			
e	Video system LED exterior mounted screens (two sets of 6)	276000	Each	12			
f	Sound Booth Conduits and pull ropes (T6)		lm	30			
g	Electrical Distribution equipment complete with feeders cables and mounting Hardware		Each	1			

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					WRITTEN	NUMERICAL	
5	h Primary Conduit (T1) and secondary conduits complete with cabling (T7)		lm	140			
	i Site Wifi Wiring, Configuration		LS	1			
	<u>Patio</u>						
	a Enclosed Patio receptacles complete with wiring to tenant unit panels. Conduits for service station within patio space		Each	5			
6	b Building Wall Wash Above Patio Fixtures, wiring, and conduit back to island 14	2.6.03	Each	20	Fifty Thousand Three Hundred Dollars and Zero Cents	50,300.00	50,300.00
	<u>Contingency</u>		LS	1			
	AMOUNT "M" (ELECTRICAL)						

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
N	EXTERIOR CUSTOM BUILT SITE FURNISHINGS						
1	<u>Prow Deck inclusive of concrete, gravel, wood deck, metal work, light tubes, electrical</u>	323700, 055000, 061001, 062000	LS	1			
2	<u>Pilot Deck inclusive of concrete, wood deck</u>	323700, 055000, 061001, 062000	LS	1			
3	<u>Pilot Wing Bench inclusive of concrete, gravel, fasteners, metal, wood</u>	323700, 055000, 061001, 062000	LS	1			
4	<u>Rock Pool Deck inclusive of concrete, gravel, wood, deck</u>	323700, 055000, 061001, 062000	LS	1			
5	<u>Tidal Step Deck 1 inclusive of concrete, gravel, wood, deck</u>	323700, 055000, 061001, 062000	LS	1			
6	<u>Tidal Step Deck 2 inclusive of concrete, gravel, wood, deck</u>	323700, 055000, 061001, 062000	LS	1			
7	<u>Table for Two fabrication and installation including electrical work</u>	323700, 055000, 061001, 062000	Each	2			
8	<u>Chip Lounger including concrete foundation</u>	323700	Each	12			
9	<u>Amphitheatre Seats inclusive of concrete, gravel backfill, draintile, wood deck, metal work, fasteners and oil sealer</u>	323700, 055000, 061001, 062000	LS	1			
10	<u>Amphitheatre Stage inclusive of gravel, draintile, concrete, wood, fasteners, sealer</u>	323700, 055000, 061001, 062000	LS	1			
11	<u>Suspended Bench inclusive of all materials, sand placement and installation</u>	323700, 055000, 061001, 062000	Each	2			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
12	<u>Weir Poles inclusive of wood poles and foundations</u>	323700, 055000, 061001, 062000	Each	12			
13	<u>Pilot Photo Op inclusive of set of two aluminum poles, foundation</u>	323700	Each	2			
14	<u>Supply and install Linear Interpretive Panel - aluminum panel printed with interpretive story</u>	323700, 055000, 061001, 062000	Each	2			
15	<u>Supply and install Freestanding Interpretive Sign inclusive of aluminum sign and concrete foundation</u>	323700, 055000, 061001, 062000	Each	4			
16	<u>Supply and install Curved Interpretive Sign inclusive of aluminum sign and concrete foundation</u>	323700, 055000, 061001, 062000	Each	2			
17	<u>Supply and install Wayfinding Pillar inclusive of aluminum sign and concrete foundation</u>	323700, 055000, 061001, 062000	Each	3			
18	<u>Point Zero inclusive of metal fabrications, painting, erection</u>	323700, 055000, 061001, 062000	LS	1			
19	<u>Hostess Station inclusive of wood framing, IPE electrical and data connection and concrete base</u>	022000, 061001, 062000, 323700	Each	5			
20	<u>Lounger Deck 1 inclusive of concrete, wood</u>	022000, 061001, 062000, 323700	LS	1			
21	<u>Lounger Deck 2 inclusive of concrete, wood</u>	022000, 061001, 062000, 323700	LS	1			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
22	<u>Lounger Deck 3 inclusive of concrete, wood</u>	022000, 061001, 062000, 323700	LS	1			
23	<u>Lounger Deck 4 inclusive of concrete, wood</u>		LS	1			
24	<u>Games table inclusive of metal fabrication and installation</u>		Each	3			
25	<u>Supply and Install Swing Gate</u>	055000	LS	1			
26	<u>Contingency</u>	2.6.03	LS	1	Eighty Two Thousand Three Hundred Dollars and Zero Cents	82,300.00	82,300.00
	AMOUNT "N" (EXTERIOR CUSTOM BUILT SITE FURNISHINGS)						

DIVISION 4

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
O	EXTERIOR MANUFACTURED SITE FURNISHINGS						
1	<u>Supply and install Trash/Recycling Bin including concrete base</u>	23, 323700	Each	14			
2	<u>Supply and install Retractable Bollard including concrete</u>	23, 323700	Each	17			
3	<u>Supply and install Fixed Bollard including concrete</u>	23, 323700	Each	6			
4	<u>Supply and install Bench with Back</u>	323700	Each	14			
5	<u>Supply and install Backless Bench</u>	323700	Each	2			
6	<u>Supply and install Bike Rack</u>	23, 323700	Each	10			
7	<u>Supply and install Bike Shelter</u>	323700	Each	1			
8	<u>Supply and install Gabion Bench 1- Canyon Fusion 6' (a & b)(6' linear bench with Plastisol coated metal seat)</u>	323700	Each	4			
9	<u>Supply and install Gabion Bench 2- Canyon Edge (6' linear bench with thermory wood seat)</u>	323700	Each	22			
10	<u>Supply and install Gabion Bench 3- Canyon Edge R18' (R18' curved bench with thermory wood seat)</u>	323700	Each	11			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
11	<u>Supply and install Gabion Bench 4- Canyon Edge 4' (4' linear bench with theromory wood seat)</u>	323700	Each	5			
12	<u>Supply and install LED Lounge Chair</u>	323700	Each	4			
13	<u>Supply and install LED Sofa</u>	323700	Each	2			
14	<u>Supply and install LED Table</u>	323700	Each	4			
15	<u>Supply and install Bistro Chair</u>	323700	Each	12			
16	<u>Supply and install Bistro Table</u>	323700	Each	6			
17	<u>Supply and install Shade Sail, inclusive of foundations, custom steel poles and fabric sail</u>	323700	LS	1			
18	<u>Supply and install Wave Lounger</u>	323700	Each	13			
19	<u>Supply and install Planter 1 (40" long)</u>	323700	Each	42			
20	<u>Supply and install Planter 2 (32" long)</u>	323700	Each	4			
21	<u>Supply and install Planter 3 (60" long)</u>	323700	Each	2			
22	<u>Supply and install Planter 4 (72" long)</u>	323700	Each	1			
23	<u>Supply and install Skateboard Deterrent</u>	323700	Each	182			
24	<u>Supply and install Trellis- Straight including concrete</u>	23, 323700	Each	4			
25	<u>AY Bean Bag Toss (set)</u>	323700	Each	1			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
26	<u>Cast Aluminum Fish</u>	323700	LS	1			
27	<u>Windscreen</u>	323700	Each	3			
28	<u>Concrete Sculpture Footing</u>	032000, 033000	LS	1			
29	<u>Banked Harbour Passage Concrete Turn</u>	032000, 033000	LS	1			
30	<u>Contingency</u>	2.6.03	LS	1	Eighty Eight Thousand Three Hundred Dollars and Zero Cents	88,300.00	88,300.00
	AMOUNT "O" (EXTERIOR MANUFACTURED SITE FURNISHINGS)						

DIVISION 4
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					WRITTEN	NUMERICAL	
P	HANDRAILS						
1	<u>Install City supplied Seawall railing posts, cable and fasteners</u>	055000	lm	480			
2	<u>Supply and install Stair & Ramp railings</u>	055000	lm	16			
3	<u>Supply and install Glass Panels and Rails on precast concrete walls and pavers</u>	055000	lm	46			
4	<u>Contingency</u>	2.6.03	LS	1	Twenty one Thousand Eight Hundred Dollars and Zero Cents	21,800.00	21,800.00
	AMOUNT "P" (HANDRAILS)						

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
Q	PRECAST CONCRETE						
1	<u>Install City supplied Concrete Unit Pavers including leveling sand, joint sand</u>	321413	m ²	5100			
2	<u>Sealer, two coats</u>	321413	m ²	700			
3	<u>Supply and install Precast Concrete Retaining Walls</u>	370000	m ²	85			
4	<u>Supply and install Precast Concrete Steps Treads</u>	370000	lm	22			
5	<u>Contingency</u>	2.6.03	LS	1	Sixty Six Thousand Eight Hundred Dollars and Zero Cents	66,800.00	66,800.00
	AMOUNT "Q" (PRECAST CONCRETE)						

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R	SYNTHETIC RUBBER SURFACING						
1	<u>Supply and install 115mm thick Synthetic Rubber Surfacing and 150mm gravel base</u>	027920	m ²	63			
2	<u>Contingency</u>	2.6.03	LS	1	One Thousand Four Hundred Dollars and Zero Cents	1,400.00	1,400.00
	AMOUNT "R" (SYNTHETIC RUBBER SURFACING)						

DIVISION 4

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S	ISLAND EDGES						
1	<u>Island #1 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
2	<u>Island #2 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
3	<u>Island #3 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
4	<u>Island #4 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
5	<u>Island #5 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
6	<u>Island #6 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
7	<u>Island #7 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
8	<u>Island #15 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
9	<u>Island #14 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			
10	<u>Island #12 - Concrete, wood, deck, aluminum panels, granular base</u>	23, 055000, 061001, 062000	LS	1			

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ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
11	<u>Contingency</u>	2.6.03	LS	1	Thirty Seven Thousand Five Hundred Dollars and Zero Cents	37,500.00	37,500.00
	AMOUNT "S" (ISLAND EDGES)						

DIVISION 4

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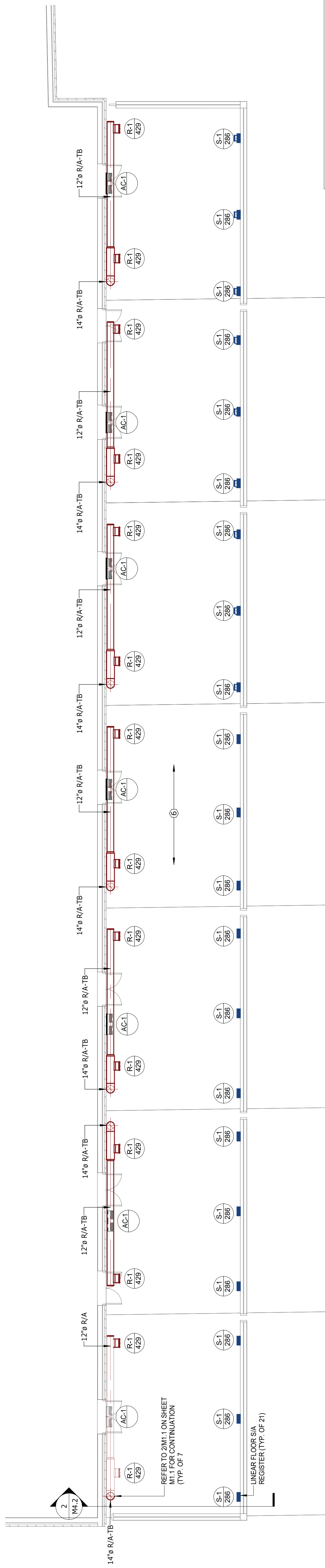
ITEM NO.	DESCRIPTION	DIV. NO.	UNIT	EST. QTY.	UNIT BID PRICE		TOTAL (\$)
					WRITTEN	NUMERICAL	
T	MISCELLANEOUS						
1	<u>Demolition of identified items for removal from site or reuse including excess material, fencing, all materials, equipment, grading, compaction, shop drawings, mockups, labour, permits, and work not covered in any other unit price item</u>	024113	LS	1			
2	<u>Glazed Structure (Owner Supply) Erection by Open Aire paid by Contractor</u>	133413	LS	1	Two Hundred Thirty Thousand Dollars and Zero Cents	230,000.00	230,000.00
3	<u>Saint John Energy Equipment and Cabling Allowance</u>		LS	1	Twenty Five Thousand Dollars and Zero Cents	25,000.00	25,000.00
4	<u>Building Permit Allowance</u>		LS	1	Twenty Two Thousand Nine Hundred and Fifty Dollars and Zero Cents	22,950.00	22,950.00
5	<u>Relocation of Existing Washroom building located on site</u>		LS	1			
6	<u>U/G Patio Infastructure as identified on M4.1 through M4.3</u>		LS	1			
7	<u>Contingency</u>	2.6.03	LS	1	Forty Four Thousand Dollars and Zero Cents	44,000.00	44,000.00
	AMOUNT "T" (MISCELLANEOUS)						

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	SUBTOTAL (A + B + C + D + E + F + G + H + I + J + K + L + M + N + O + P + Q + R + S + T)						
	HARMONIZED SALES TAX (HST) 15 %						
	TOTAL INCLUDING HST						



1 PATIO - VENTILATION
M4.2 1/8" = 1'-0"

M4.2) $1/8" = 1'-0"$

GENERAL NOTES

THIS DRAWING IS PROVIDED TO REFLECT THE GENERAL EXTENT OF WORK AND AS SUCH DOES NOT NECESSARILY INDICATE THE ENTIRE SCOPE OF WORK. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH RELATED ARCHITECTURAL, STRUCTURAL, ELECTRICAL AND/OR MECHANICAL DRAWINGS, DETAILS, SPECIFICATIONS, TENDER AND/OR OTHER CONTRACT DOCUMENTS, AS APPLICABLE.

KEY NOTES PHASE 1

- ① IN PHASE 1 OF THIS PROJECT THE CONTRACTOR SHALL PROVIDE ALL ABOUT 12" DIA. STEEL PIPES, JOINTS, AND EQUIPMENT REQUIRED FOR THE INSTALLATION OF THE DUCT SYSTEM. FLOW DUCT SYSTEMS INDICATED ON THIS SHEET, DRAWING DRE1-1, STRICTLY FOLLOW MANUFACTURER'S INSTALLATION INSTRUCTIONS.
- ② CONTRACTOR SHALL ENSURE THAT ALL DUCTWORK PENETRATIONS THROUGH FLOOR ASSEMBLY OR WALLS ARE PROPERLY SEALED TO PROVIDE A PERMANENT WATER AND AIRBARRIER. ALL DUCT SHALL BE SEALED AS PER THE MANUFACTURER'S RECOMMENDATIONS.
- ③ CONTRACTOR SHALL FURNISH AND INSTALL OFFSET FOOTER BOOT EXTENSION TO ALLOW THE UNDERGROUND SYSTEM TO CONNECT TO SUPPLY AIR FLOOR REGISTERS. THE PLENUM /DISUSER BOX SHALL BE PREPARED FOLLOWING THE DUCT SYSTEM MANUFACTURER'S INSTRUCTION TO ALLOW THE LINEAR FLOOR REGISTER ASSEMBLY TO BE INSTALLED. REFER TO DETAIL M1 ON SHEET M1.2 FOR ADDITIONAL INFORMATION.
- ④ CONTRACTOR SHALL FURNISH AND INSTALL FLOOR PENETRATIONS AND ASSOCIATED RETURN AIR DUCTWORK AS REQUIRED. RETURN DUCTWORK SHALL BE SECURED INTO A COMPLETELY RIGID, NON-DEFORMABLE, HIGH AS PRESSURE RATING AIR DUCT. CONTRACTOR SHALL PROVIDE A 12" DIA. OVERSIZED, DOWNWARD RETURN AIR GRILL. REFER TO SHEET M1.2 FOR CLARIFICATION ON THE LIMIT OF CONTRACT IN PHASE 1 FOR THIS WORK.

IMPORTANT

1. It is highly recommended that the contractors complete the ductwork manufacturer training prior to installing the underground ductwork.
2. Strictly adhere to the Manufacturer's instructions.

2. Checkyourside for the manufacturer's instructions.
3. The ductwork underground sealant, clamp and Maxseal gasket material must be used as directed. The use of nonapproved sealant or gasket will void the warranty.
4. For best results and ease of installation, store the clamps, gaskets and caulk at between 50° and 80°F. For installing in high ambient temperatures above 90°F consult with ductwork manufacturer for special installation instructions.

SITE CONDITION AND PREPARATION

It is not prudent practice to install underground duct work where ground water is present. If ground water is present or anticipated, a drain tile and pumping system is recommended before installation.

EXCAVATION

Coordination: Excavation work and trench elevations should be closely coordinated with the certified ductwork

installer on site. It is recommended to share this information with the on-site general contractor and excavation

Soil Type: If non-porous soil (i.e. clay, shale, solid rock) is present a sump pumping or drainage system is recommended to ensure the water is re-directed.

Width: For non-flanged duct, the trench width should be 1 1/2 times the duct diameter. For flanged duct, the trench width should be 1 1/2 times the duct diameter. Where multiple ducts are installed side by side, the minimum separation must allow for reasonable access for proper installation.

Bedding: After the excavation has been made, special bedding is not required for The underground ductwork. The underground ductwork separation must allow for reasonable access for proper installation.

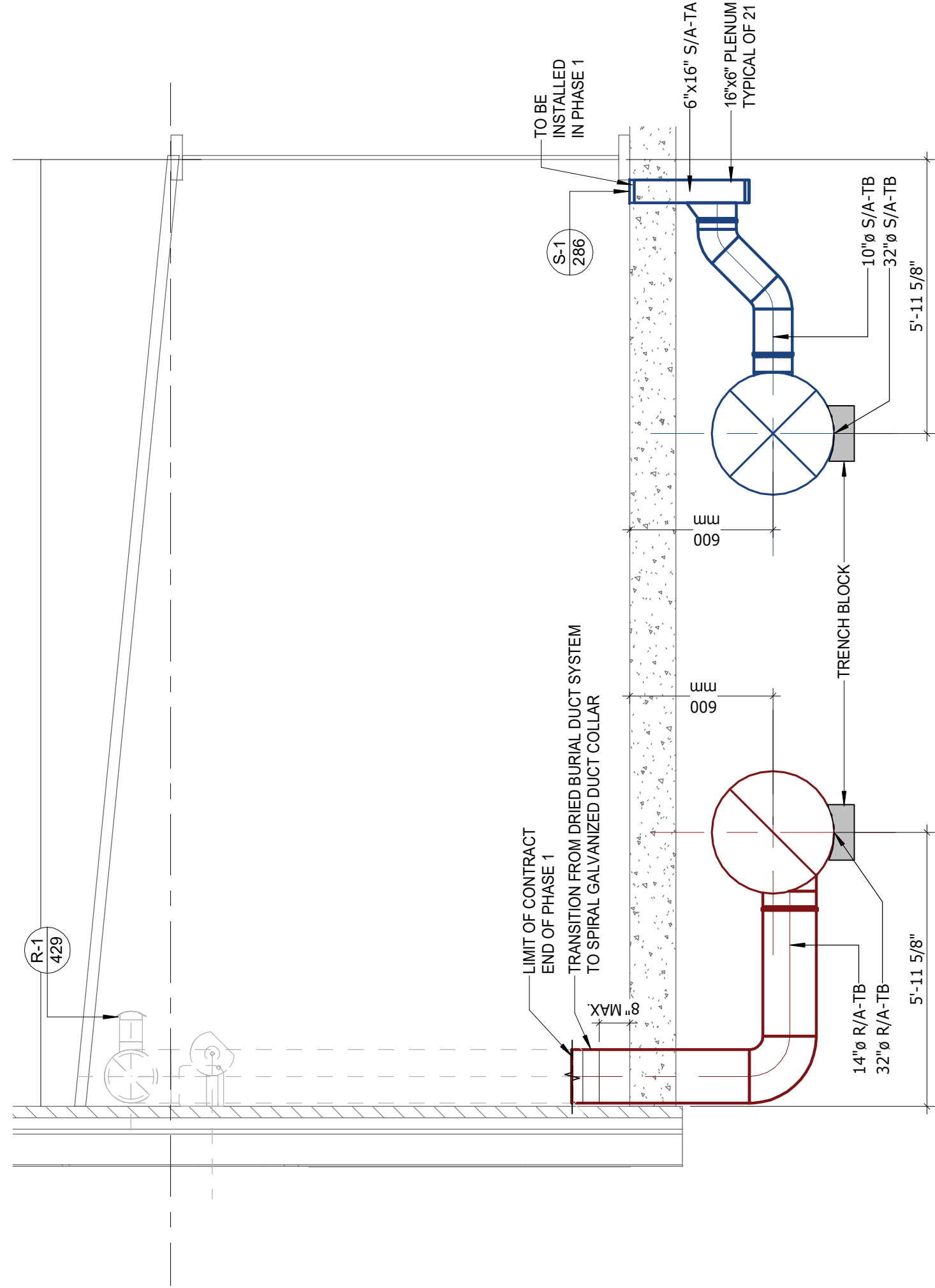
BACKFILL

Pea gravel or fill silica sand is required. Generally pea gravel does not need further compaction. However, if additional compaction is required it should never be done directly on top of the underground ductwork, but rather off to the sides. Additionally, backfill should never be dumped directly on top of the Duct, but should be applied by raking in from the sides. Consult your Project Structural Engineer for these needs.

1. Spread the backfill material evenly around the duct, in no more than 1ft. lift increments, and ensure there are no gaps. Cement is not required to fill in around the duct since the self-compacting fill holds the duct in place.
2. If compaction is going to take place, use extreme care not to damage the Duct. It does not recommend the use of heavy mechanical equipment. If a gentle compaction technique is used, manually operated wank behind 2' by 2' plate tamper is recommended. The use of 'jumping jacks', rammers and machinery equipment are prohibited.

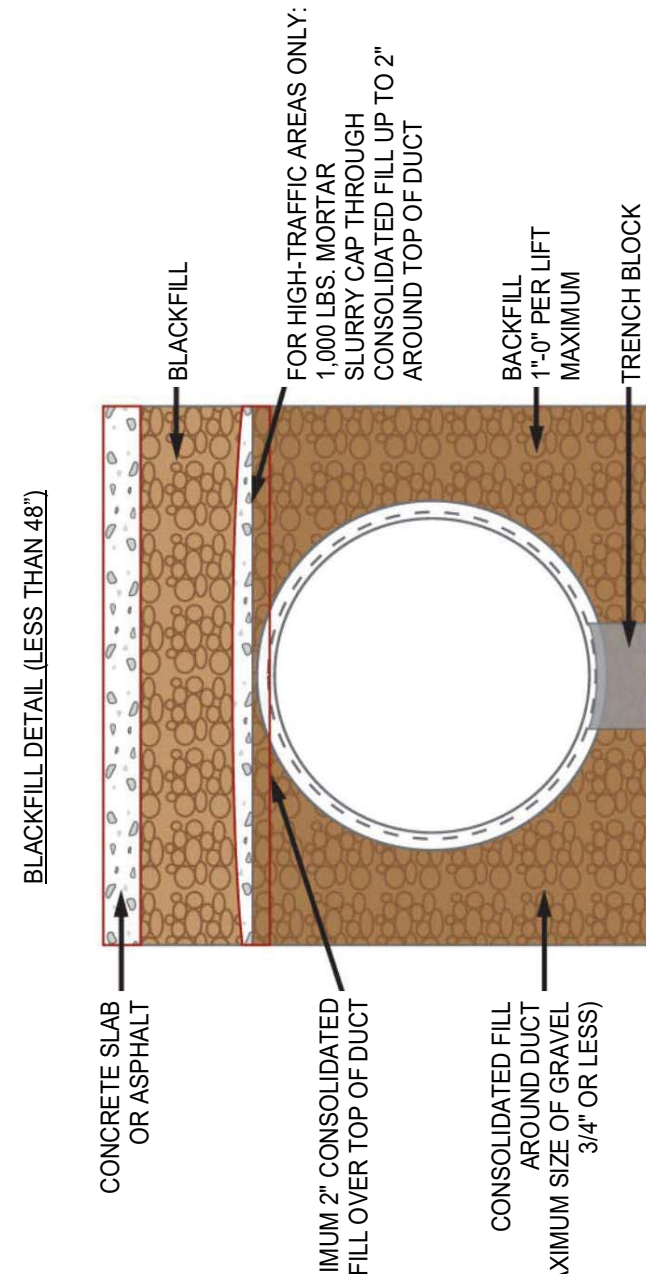
If heavy rain or increasing water table is likely to occur prior to backfilling, it is recommended that the duct be anchored. Contact ductwork manufacturer for anchoring recommendations.

Important: Allow a minimum of 24 hours for the sealant to sufficiently cure before backfilling. It is strongly encouraged to backfill 24 to 48 hours after installation to protect the open trench from filling with water during a heavy rain. If the duct is fully assembled, sealed and not yet backfilled, protect the duct from extreme heat and direct sunlight to prevent the air trapped inside the duct from reaching an elevated temperature.



2 PATIO CROSS SECTION
M4.2 NTS























4.2 NTS



TRENCH DETAIL

- 3 DIRECTED BURIAL DUCT SYSTEM TRENCH DETAIL

NTS

HVAC LEGEND	
	SUPPLY AIR DUCT RISE/DROP
	RETURN AIR DUCT RISE/DROP
	OUTSIDE AIR DUCT RISE/DROP
	EXHAUST AIR DUCT RISE/DROP
	SUPPLY AIR DUCT
	RETURN AIR DUCT
	OUTSIDE AIR DUCT
	EXHAUST AIR DUCT
	INSULATED DUCT
	TAG AIR FLOW (CFM)
	AIR GRILL & DIFFUSER
	CU-1
	HP-1
	ELECTRIC UNIT HEATER
	ENERGY RECOVERY VENTILATOR
	FROM ABOVE
	FROM ABOVE/TO BELOW
	FROM BELOW
	FROM BELOW/TO ABOVE
	TO ABOVE
	TO BELOW
	PHASE -2 (N.I.C)

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