

ADDENDUM NO. 2

Norwalk Transit District Fuel Island, Service Lane and Tank Replacement 437404

DATE

2/21/2020

OWNER

Norwalk Transit District 275 Wilson Avenue Norwalk, CT

ARCHITECT/ENGINEER

Wendel Architecture, PC 375 Essjay Road Suite 200 Williamsville, NY 14221 Phone: 716-688-0766 Fax: 716-625-6825

Project No. 437404

This Addendum is being issued to clarify the bid documents and shall supersede and supplement all portions of previously issued bid documents with which it conflicts. It shall be made an integral part of the construction documents.



Project Norwalk Transit District	Addendum No.	02
	Contract	t
Wendel Project No. 433101	Date	2/21/20
ARTICLE - <u>1</u>	DRAWING NO.	
	SPEC SECTION	BID FORM
		-
REPLACE BID FORM in its entirety with the drawing sheet include	d in this addendum.	
ARTICLE - <u>2</u>	DRAWING NO	
	SPEC SECTION	012200
REPLACE Specification 012200 Unit Prices in its entirety with the	drawing sheet include	ed in this
addendum.		
ARTICLE - 3	DRAWING NO	Δ901
ARTICLE - 3	DRAWING NO	A901
ARTICLE - 3	DRAWING NO SPEC SECTION _	A901
	SPEC	A901
ARTICLE - 3 ADD:	SPEC	A901
ADD:	SPEC SECTION _	
ADD: Drawing A901, add the following note to the Door Schedule: "Subjetingh Speed Coil Doors shall be Overhead Door RapidShield Metal	SPEC SECTION ect to compliance with Doors Model 998, wi	n requirements, ith 80" per second
ADD: Drawing A901, add the following note to the Door Schedule: "Subjetigh Speed Coil Doors shall be Overhead Door RapidShield Metal opening speed, 20" per second closing speed, dual walled aluminum	SPEC SECTION ect to compliance with Doors Model 998, wi m curtain slats, two r	n requirements, ith 80" per second ows of vision
ADD: Drawing A901, add the following note to the Door Schedule: "Subjeting Speed Coil Doors shall be Overhead Door RapidShield Metal opening speed, 20" per second closing speed, dual walled aluminu panels, with direct-drive motor and gearbox system operation, variations."	SPEC SECTION ect to compliance with Doors Model 998, will m curtain slats, two rable frequency drive of	n requirements, ith 80" per second ows of vision control panel,
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ADD: Drawing A901, add the following note to the Door Schedule: "Subjeting High Speed Coil Doors shall be Overhead Door RapidShield Metal opening speed, 20" per second closing speed, dual walled aluminu panels, with direct-drive motor and gearbox system operation, variating integrated obstruction safety detection and reversing safety edge, or	SPEC SECTION	n requirements, ith 80" per second ows of vision control panel,
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Project Norwalk Transit District		No. 02
Wendel Project No. 4		actate2/21/20
ARTICLE - 5	DRAWING NO. SPEC SECTION	C202
REPLACE Drawing Sheet C202 in its	s entirety with the drawing sheet included in this	addendum.
ARTICLE - 6	DRAWING NO.	C300
	SPEC SECTION	
REPLACE Drawing Sheet C300 in its	s entirety with the drawing sheet included in this	addendum.
ARTICLE - 7	DRAWING NO.	
	SPEC SECTION	
QUESTION: There is a 6.1% DBE goal. Are there	any goals for minority or SBE companies?	
ANSWER: Comply with requirements in Pro	ject Manual.	
ARTICLE - 8	DRAWING NO.	
	SPEC SECTION	
QUESTION: A100 Demo says to remove existing slab?	slab. What is the thickness of the slab? Is it part	of the wash bay
	ss to vary, 8" minimum at drain locations. It is als ween the wash bay and the walking surface.	o shown as a single



Project Norwalk Transit District	Addendum No	02
Wendel Project No. 433101	Contract _ Date _	2/21/20
ARTICLE9	DRAWING NO	
	SPEC SECTION	
Question: What is the height of the walls and ceilings in the service lane RM 1	46 and Reclaim Room	Rm 147?
Answer: Original drawings show top of steel elevation at 21'-6" above slab for existing building also has three vaulted clerestory areas, with a height		of area. The
ARTICLE - 10	DRAWING NO SPEC SECTION	
Question: O&G Industries, Inc. respectfully requests a two (2) week bid extens	sion to March 11, 2020.	
Answer: Please refer to Addendum #1- Bid has been extended to 2/28/2020		
ARTICLE	DRAWING NO. SPEC SECTION	
Question: Will bidders be informed of the selected bus wash manufacturer in a installation purposes, it would be imperative to review the information manufacturer to mitigate gaps in scope.		
Answer: The winning bidder will be informed of the selected bus wash equip and will not be selected prior to bids being received. Each contract stipulated in the construction documents to cover the cost for connection	or is to carry the allowar	nce amounts
ARTICLE - 12	DRAWING NO. SPEC SECTION	
Question: Can you confirm that the bus wash equipment will be delivered prio construction scheduled?	r to the beginning of the	45 day
Anguari		

The bus wash equipment delivery schedule will be provided, once the Owner procures the equipment.



Project Norwalk Transit Distri	ct	Addendum No	02
Wendel Project No.	433101	Contract Date	2/21/20
ARTICLE - 13	_	DRAWING NO. SPEC SECTION	
Question: Procurement, delegated design space the construction schedule time alloweeks and delivery times for tanks submittals.	owed, prior to construction. For ex	kample, current submitta	als require 4-6
Answer: Contractor to bid in accordance w will be reviewed at that time with t	· · · · · · · · · · · · · · · · · · ·	ension is determined to	be needed it
ARTICLE - 14	_	DRAWING NO	
		SPEC SECTION	
Question: In Specification Section 310000 Earth Work the site is defined as "unclassified" as it pertains to rock excavation (3.03-A.1). The geotechnical report you provide states on the bottom of page 1 and the top of page 2 that no explorations have been done in the vicinity of the new fueling area and the canopy. It appears that there will be rock excavation required in this area, however we have no way to determine the amount of rock we will encounter. Please provide us with a quantity of rock to carry in our bid and a unit price for additional rock encountered.			
Answer: Please refer to addendum articles	1 & 2 for clarification.		

BID FORM Fueling Upgrades

То:	Norwalk Transit District 275 Wilson Avenue		
	Norwalk, CT 06854 In compliance with your Advertisement for Bids, the	undersigned:	
(Nam	ne of firm, partnership or Corporation)		
overh Repla Projec	by proposes to furnish all supervision, labor, material and profit, and other facilities related to, proper facement & Service Lane Upgrades for the Norwalk Tot Manual dated January 24, 2020 and the Drawinguently issued addenda for consideration of the following	or, or incidental to the Fuel Island ransit District, in strict accordance ags mentioned therein, and includ	d, Tank with the
BASE	E BID:		
		Dollars (\$)
Section	PRICES: State the amount for adding the following son 012200 for further information. Removal and replacement of unsuitable soil \$	/CY	Refer to
	Computed Total	Dollars (\$)
2.	. Rock Removal- blasting or drilling and wedging. \$ Times assumed quantity of 250CY (fill in unit price a		
	Computed Total	Dollars (\$)
	TOTAL AMOUNT OF BASE BID:		
		Dollars (\$)

PROPOSED EQUIVALENTS

The Contractor has included in the Base Bid the following kinds, types, brands, or manufacturers of materials in lieu of those named in the specifications. The Contractor understands that he includes these

proposed equivalent items in the Base Bid at his own risk, as they are subject to the approval of the Architect. The Contractor certifies that the following constitute the extent of proposed equivalent items included in the Base Bid and that the remainder of kinds, types, brands, or manufacturers included in the Base Bid are those named in the specifications.

	SPECIFICATION SECTION &	
<u>ITEM</u>	PARAGRAPH(S)	PROPOSED EQUIVALENT
ATTACH ADDITIONAL PROPOSE	ED EQUIVALENT ITEMS TO BID FO	DRM.
forty-five (45) calendar days from the	Proposal shall be good and may not be date of Bid opening. Furthermore, the ance of this bid, execute a contract in Bonds.	e undersigned will, within ten
The Bidder understands that and to waive any informality therein.	the Owner specifically reserves the ri	ght to reject any and all Bids
The undersigned agrees to complet Supplementary Instructions to Bidder	te the work in accordance with the rs.	time period specified in the
Addendum Receipt: The receipt of the	ne following addenda to the Specificati	ons is acknowledged:
Addendum No Date		Date
Addendum No Date		Date
Addendum No Date	Addendum No	Date
Failure to acknowledge receipt of al solicitation.	l addenda may cause the bid to be co	onsidered nonresponsive to the
	tions/Supplementary Instructions to B (2) low bidders, within three (3) work	
Dated, 20		
	Legal name of person, part	nership or corporation
(Sign Bid Here) By:		
	Name and Title	
Legal Business Address:	Street	
	City and State	

Phone Number

IF BIDDER IS A FIRM OR PARTNERSHIP, COMPLETE THE FOLLOWING:

Name of Members or Partners	Legal Residence
IF BIDDER IS A CORPORATIO	ON, COMPLETE THE FOLLOWING:
State of Incorporation:	
Name and Title	Legal Residence
President	
Vice President	
Secretary	

BID PROPOSAL CERTIFICATIONS

Firm Name		
Business Address		
Telephone Number	Date of Bid	

I. General Bid Certification

The bidder certifies that he will furnish, at the prices herein quoted, the materials, equipment and/or services as proposed on this bid.

II. Non-Collusive Bidding Certifications

By submission of this bid proposal, the bidder also certifies compliance with the following:

Statement of non-collusion in bids and proposals to political subdivision of the state. Every bid or proposal hereafter made to a political subdivision of the state or any public department, agency or official thereof where competitive bidding is required by statute, rule, regulation, or local law, for work or services performed or to be performed or goods sold or to be sold, shall contain the following statement subscribed by the bidder and affirmed by such bidder as true under the penalties of perjury: Non-collusive bidding certification.

- (a) By submission of this bid, each bidder and each person signing on behalf of any bidder certifies, and in the case of a joint bid, each party thereto certifies as to its own organization, under penalty of perjury, that to the best of knowledge and belief:
- (1) The prices in this bid have been arrived at independently without collusion, consultation, communication or agreement, for the purpose of restricting competition, as to any matter relating to such prices with any other bidder or with any competitor;
- (2) Unless otherwise required by law, the prices which have been quoted in this bid have not been knowingly disclosed by the bidder and will not knowingly be disclosed by the bidder prior to opening, directly or indirectly, to any other bidder to any competitor; and
- (4) No attempt has been made or will be made by the bidder to induce any other person, partnership or corporation to submit or not to submit a bid for the purpose of restricting competition.
- (b) A bid shall not be considered for award nor shall any award be made where (a) (1) (2) and (3) above have not been complied with; provided, however, that if in any case the bidder cannot make the foregoing certification, the bidder shall so state and shall furnish with the bid a signed statement which sets forth in detail the reasons therefore. Where (a) (1) (2) and (3) above have not been complied with, the bid shall not be considered for award nor shall any award be made unless the head of the purchasing unit of the political subdivision, public department, agency or official thereof to which the bid is made, or his designee, determines that such disclosure was not made for the purpose of restricting completions.

The fact that a bidder (a) has published price lists, rates, or tariffs covering items being procured, (b) has informed prospective customers of proposed or pending publication of new or revised price lists for such items, or (c) has sold the same items to other customers at the same prices being bid, does not constitute, without more, a disclosure within the meaning subparagraph one (a).

2. Any bid hereafter made to any political subdivision of the state or any public department, agency or official thereof by a corporate bidder for work of services performed or to be performed or goods sold or not to be sold, where competitive bidding is required by statute, rule, regulation, or local law, and where such bid contains the certification referred to in subdivision one of the section, shall be deemed to have been authorized by the board of directors of the bidder, and such authorization shall be deemed the board of directors of the bidder, and such authorization shall be deemed to include the signing and submission of the bid and the inclusion therein of the certificate as to non-collusion as the act and deed of the corporation.

Signature (Authorized)		
_		
Title		

AFFIRMATIVE ACTION AGREEMENT

Firm Name:	 	
Business Address:		
Telephone Number:	 	

Non-discrimination Clauses:

- 1. The Contractor will not discriminate against any employee or applicant for employment because of race, creed, sex, color or national origin and will take affirmative action to insure that they are afforded equal employment opportunities without discrimination because of race, creed, sex, color or national origin. Such action shall be taken with reference, but not limited to: recruitment, employment, job assignment, promotion, upgrading, demotion, transfer, layoff or termination, rates of pay or other forms of compensation, and selection for training or retraining, including apprenticeship and on-the-job training.
- 2. The Contractor will send to each labor union or representative of workers with which he has or is bound by a collective bargaining or other agreement or understanding, a notice, to be provided by the State Commission for Human Rights, advising such labor union or representative of the Contractor's agreement under clauses (1) through (7) (hereinafter called "non-discrimination clauses"). If the Contractor was directed to do so by the contracting agency as part of the bid or negotiation of this Contract, the Contractor shall request such labor union or representative to furnish him with a written statement that such labor union or representative will not discriminate because of race, creed, sex, color or national origin and that such labor union or representative either will affirmatively cooperate, within the limits of its legal and contractual authority, in the implementation of the policy and provisions of these non-discrimination clauses or that it consents and agrees that recruitment, employment and the terms and conditions of employment under this Contract shall be in accordance with the purposes and provisions of these nondiscrimination clauses. If such labor union or representative fails or refuses to comply with such a request that it furnish such a statement, the Contractor shall promptly notify the State Commission for Human Rights of such failure or refusal.
- 3. The Contractor will post and keep posted in conspicuous places, available to employees and applicants for employment, notices to be provided by the State Commission for Human Rights setting forth the substance of the provisions of clauses (1) and (2) and such provisions of the State's laws against discrimination as the State Commission for Human Rights shall determine.
- 4. The Contractor will state, in all solicitations or advertisements for employees placed by or on behalf of the Contractor, that all qualified applicants will be afforded equal employment opportunities without discrimination because of race, creed, sex, color or national origin.
- 5. The Contractor will comply with the provisions of Sections 291-299 of the Executive Law and the Civil Rights Law, will furnish all information and reports deemed necessary by the State Commission for Human Rights under these non-discrimination clauses and such sections of the Executive Law, and will permit access to his books, records and accounts by the State

Commission for Human Rights, the Attorney General and the Industrial Commissioner for the purposes of investigation to ascertain compliance with these non-discrimination clauses and such sections of the Executive Law and Civil Rights Law.

- 6. This Contract may be forthwith canceled, terminated or suspended, in whole or in part, by the contracting agency upon the basis of a finding made by the State Commission for Human Rights that the Contractor has not complied with these non-discrimination clauses, and the Contractor may be declared ineligible for future contracts made by or on behalf of the State or a public authority or agency of the state, until he satisfies the State Commission for Human Rights that he has established and is carrying out a program in conformity with the provisions of these non-discrimination clauses. Such finding shall be made by the State Commission for Human Rights after conciliation efforts by the Commission have failed to achieve compliance with these non-discrimination clauses and after a verified complaint has been filed with the Commission, notice thereof has been given to the Contractor and an opportunity has been afforded him to be heard publicly before three members of the Commission. Such sanctions may be imposed and remedies invoked dependently of or in addition to sanctions and remedies otherwise provided by law.
- 7. The Contractor will include the provisions of clauses (1) through (6) in every subcontract or purchase order in such a manner that such provisions will be binding upon each subcontractor or vendor as to operations to be performed within the State of Connecticut. The Contractor will take such action in enforcing such provisions of such subcontract or purchase order as the contracting agency may direct, including sanctions or remedies for non-compliance. If the Contractor becomes involved in or is threatened with litigation with a subcontractor or vendor as a result of such direction by the contracting agency, the Contractor shall promptly so notify the Attorney General, requesting him to intervene and protect the interests of the State of Connecticut.

Signature (Authorized):	
Title:	

END OF BID FORM

WAIVER OF IMMUNITY CLAUSE

The bidder hereby agrees to the provisions of the applicable General Municipal Law which requires that upon the refusal of person, when called before a grand Jury to testify concerning any transaction or contract had with the State, any political subdivision thereof, a public authority or with any public department, agency or official of the state or of any political subdivision thereof or of a public authority, to sign a waiver of immunity against subsequent criminal prosecution or to answer any relevant question concerning such transaction or contract.

- (a) Such person, any firm, partnership, or corporation of which he is a member, partner, director or officer shall be disqualified from thereafter selling to or submitting bids to or receiving awards from or entering into any contracts with any municipal corporation or any public department, agency or official thereof, for goods, work or services, for a period of five years after such refusal, and
- (b) Any and all contracts made with any municipal corporation or any public department, agency or official thereof, since the effective date of this law, by such person, and by any firm, partnership, or corporation of which he is a member, partner, director of officer may be canceled or terminated by the municipal corporation without incurring any penalty or damages on account of such cancellation or termination, but any monies owing by the municipal corporation for goods delivered or work done prior to the cancellation or termination shall be paid.

		Individual	
		Corporation	
Date	Bv:		

BID BREAKDOWN FORM

DIVISION 00	Dollars (\$)
DIVISION 01	Dollars (\$
DIVISION 02	Dollars (\$)
DIVISION 03	Dollars (\$)
DIVISION 04	Dollars (\$)
DIVISION 05	Dollars (\$)
DIVISION 06	Dollars (\$)
DIVISION 07	Dollars (\$)
DIVISION 08	Dollars (\$)
DIVISION 09	Dollars (\$)
DIVISION 10	Dollars (\$)
DIVISION 11	Dollars (\$)
DIVISION 13	Dollars (\$)
DIVISION 21	Dollars (\$)
DIVISION 22	Dollars (\$)
DIVISION 23	Dollars (\$)
DIVISION 26	Dollars (\$)
DIVISION 31	Dollars (\$)
DIVISION 32	Dollars (\$
DIVISION 34	Dollars (\$)
BASE BID TOTAL	Dollars (\$

END OF BID FORM

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SECTION 012200 - UNIT PRICES

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and other Division 01 Specification Sections, apply to this Section.

1.2 SUMMARY

- A. Section includes administrative and procedural requirements for unit prices.
- B. Related Requirements:
 - 1. Division 01 Section "Contract Modification Procedures" for procedures for submitting and handling Change Orders.

1.3 DEFINITIONS

A. Unit price is an amount incorporated in the Agreement, applicable during the duration of the Work as a price per unit of measurement for materials, equipment, or services, or a portion of the Work, added to or deducted from the Contract Sum by appropriate modification, if the scope of Work or estimated quantities of Work required by the Contract Documents are increased or decreased.

1.4 PROCEDURES

- A. Unit prices include all necessary material, plus cost for delivery, installation, insurance, applicable taxes, overhead, and profit.
- B. Measurement and Payment: See individual Specification Sections for work that requires establishment of unit prices. Methods of measurement and payment for unit prices are specified in those Sections.
- C. Owner reserves the right to reject Contractor's measurement of work-in-place that involves use of established unit prices and to have this work measured, at Owner's expense, by an independent surveyor acceptable to Contractor.
- D. List of Unit Prices: A schedule of unit prices is included in Part 3. Specification Sections referenced in the schedule contain requirements for materials described under each unit price.

UNIT PRICES 012200 - 1

PART 2 - PRODUCTS (Not Used)

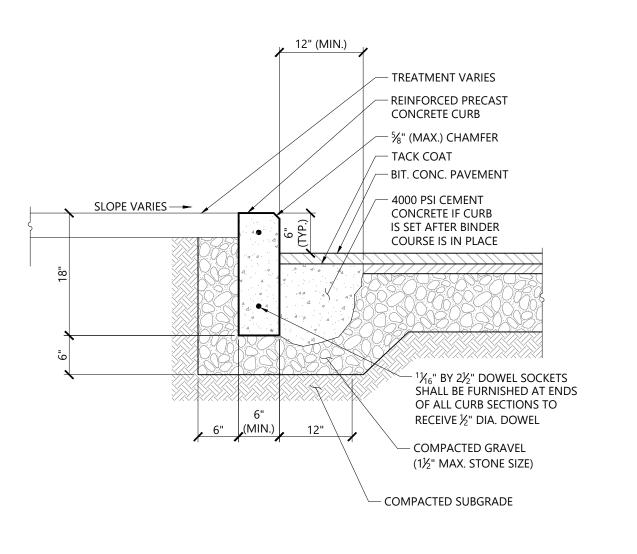
PART 3 - EXECUTION

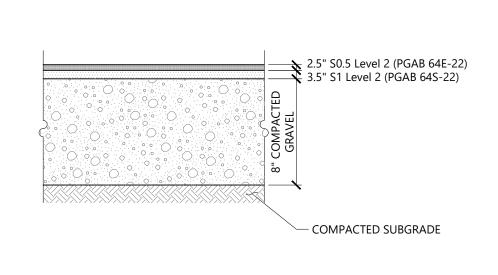
3.1 SCHEDULE OF UNIT PRICES

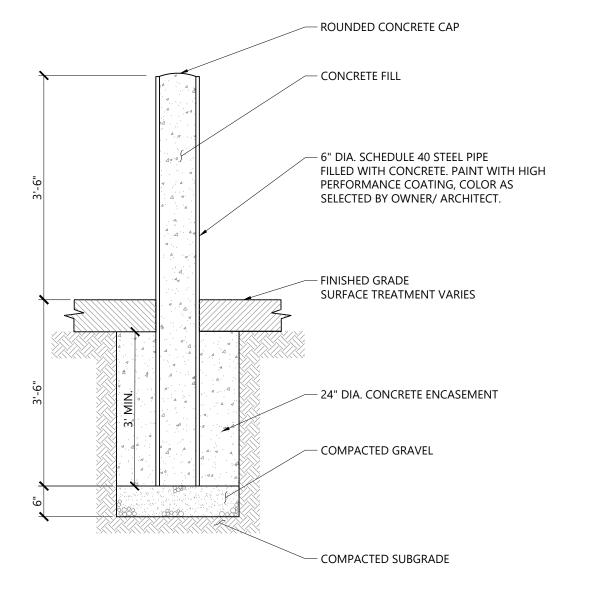
- A. Unit Price No. 1 Removal of unsuitable soil material and replacement with satisfactory soil material as directed by Owner's Testing Agency.
 - 1. Description:
 - a. Unsuitable soil excavation and disposal off site and replacement with compacted Subbase Material, Type II (Crusher Run Stone), as required, according to Section 310000 "Earthwork".
 - 2. Unit of Measurement:
 - a. Cubic yard of soil excavated, based on survey of volume removed.
 - b. Quantities paid for under this item shall be the actual quantities of unsuitable soils removed by the Contractor as measured in its placed condition.
 - 3. Payment:
 - a. Payment for this item shall be made at the price bid per cubic yard which shall be full payment for work under this item.
- B. Unit Price No. 2- Removal of Rock by blasting or drilling and wedging. Any unauthorized excavation shall be at the contractor's expense. Verify extents prior to removal.
 - 1. Description:
 - a. Blasting or drilling and wedging. If the ledge/rock is friable and can be excavated then it should be considered unclassified excavation, which is not included in the allowance and should be included in the base price.
 - 2. Unit of Measurement:
 - a. Cubic yard of rock removal, based on survey of volume removed.
 - b. Quantities paid for under this item shall be the actual quantities of rock removed by the Contractor as measured at the time of removal.
 - 3. Payment:
 - a. Payment for this item shall be made at the price bid per cubic yard which shall be full payment for work under this item.

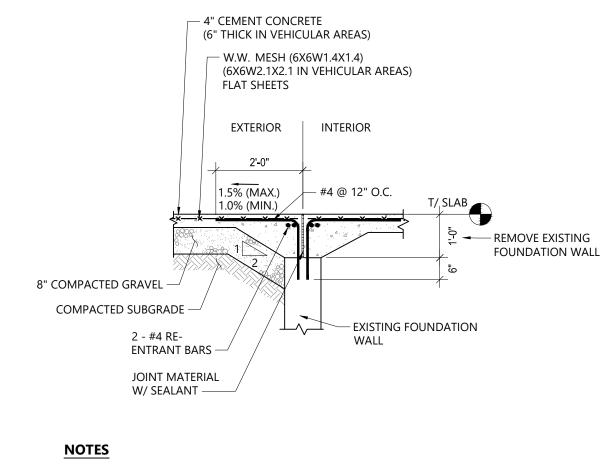
END OF SECTION 012200

UNIT PRICES 012200 - 2



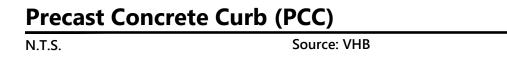






1. REFER TO STRUCTURAL DRAWINGS FOR INTERIOR REINFORCEMENT AND CONCRETE REQUIREMENTS.

2. ENTRANCE TO BE CONSTRUCTED WITH 4,500 PSI CONCRETE (5,000 PSI IN VEHICULAR AREAS). BOTH MIXES TO BE TYPE II, 6% (1.5±) AIR ENTRAINED.



Bituminous Co	ncrete Pavement Sections		1/16
N.T.S.	Source: VHB	REV	LD_430

1. WHERE UTILITY TRENCHES ARE CONSTRUCTED THROUGH

2. USE METALLIC TRACING/WARNING TAPE OVER ALL PIPES.

SPECIAL SECTION REQUIREMENTS.

DETENTION BASIN BERMS OR OTHER SUCH SPECIAL SECTIONS,

PLACE TRENCH BACKFILL WITH MATERIALS SIMILAR TO THE



Concrete Entrance

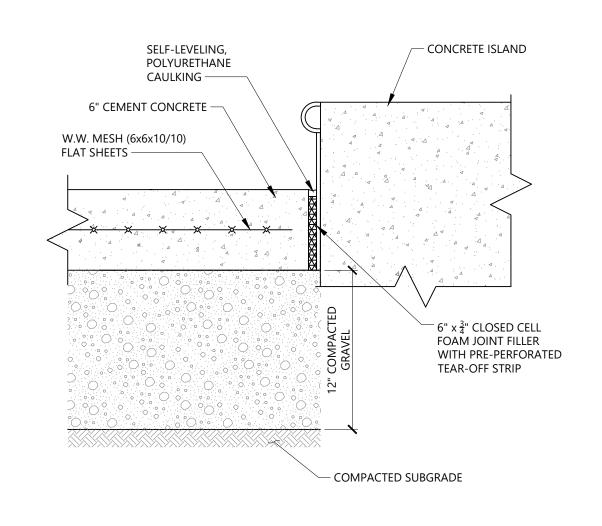
NOTES

1/16

REV

Straw Bale Barrier With Checkdam

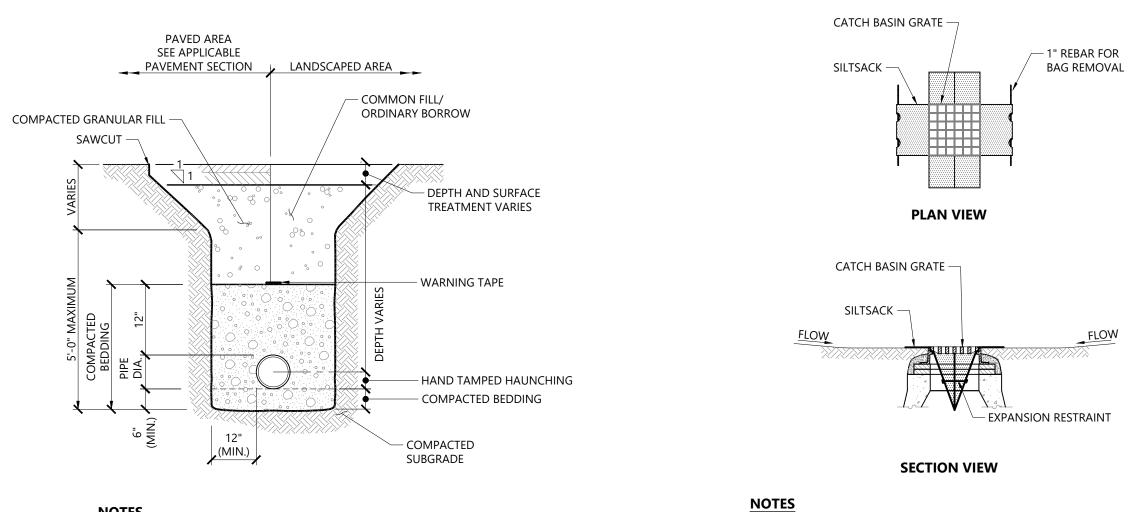
N.T.S. Source: Wendel





Concrete Apro	n Detail	Utility Trench	
N.T.S.	Source: VHB	N.T.S.	Source: VHB

LD_404



LD_300

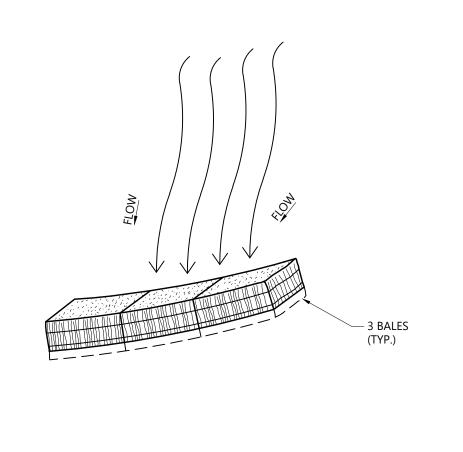
 INSTALL SILTSACK IN ALL CATCH BASINS WHERE INDICATED ON THE PLAN BEFORE COMMENCING WORK OR IN PAVED AREAS AFTER BINDER COURSE IS PLACED AND HAY BALES HAVE BEEN REMOVED.

2. GRATE TO BE PLACED OVER SILTSACK.

Siltsack Sediment Trap

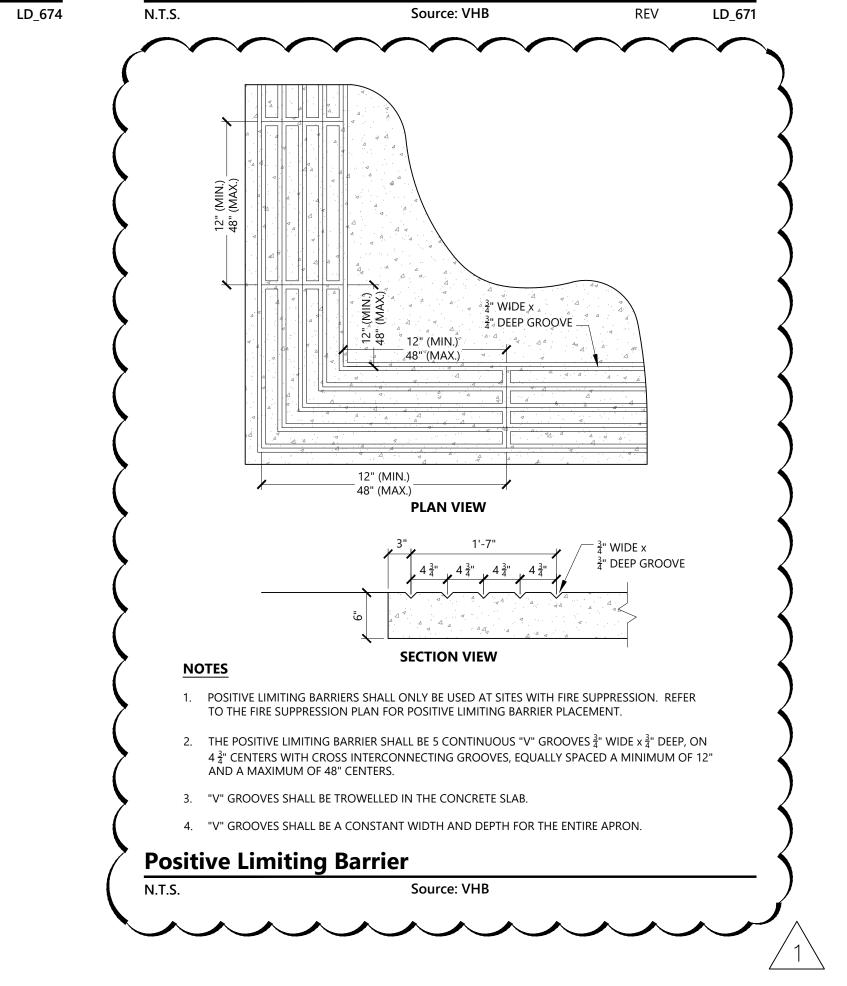
3. SILTSACK SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND CLEANING OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED. MAINTAIN UNTIL UPSTREAM AREAS HAVE BEEN PERMANENTLY STABILIZED

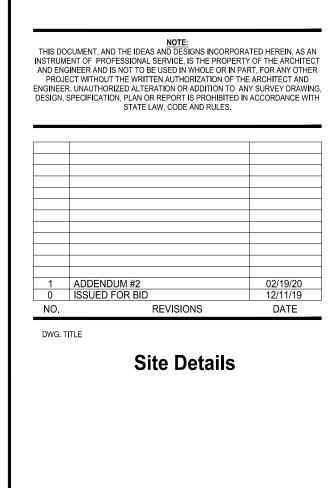
Source: VHB



1/16

 BALES SHALL BE INSPECTED PERIODICALLY AND AFTER ALL STORM EVENTS AND REPAIR OR REPLACEMENT SHALL BE PERFORMED PROMPTLY AS NEEDED.





NORWALK TRANSIT

NORWALK TRANSIT DISTRICT

FUEL ISLAND, TANK

REPLACEMENT AND SERVICE

LANE UPGRADES

375 Essjay Road, Suite 200

Williamsville, NY 14221

www.wendelcompanies.com

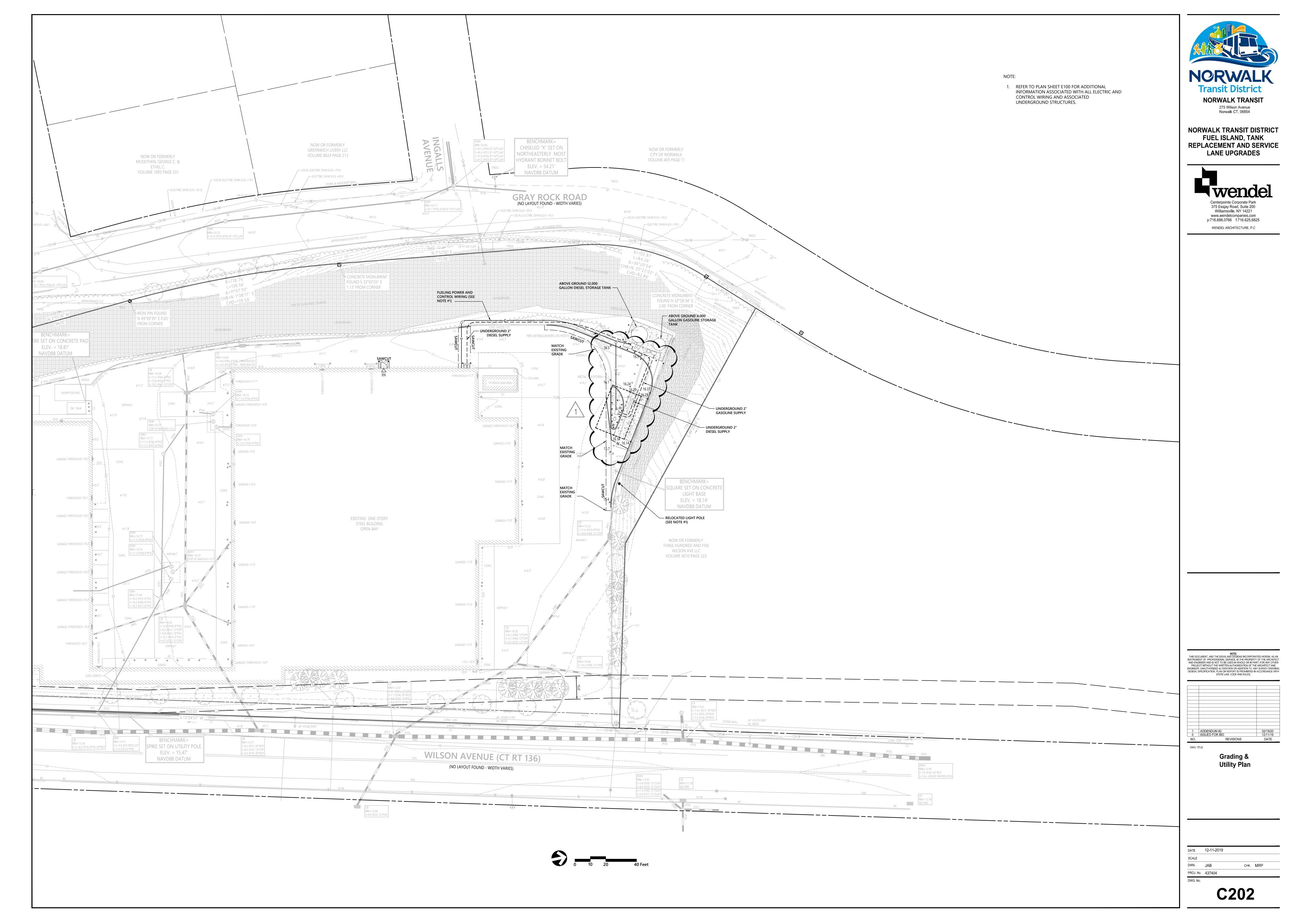
p:716.688.0766 f:716.625.6825

WENDEL ARCHITECTURE, P.C

275 Wilson Avenue

Norwalk CT, 06854

DATE 12-11-2019 DWN. JAB CHK. MRP PROJ. No. 437404 DWG. No.



		EXISTIN	I G	2 A 1	1 E I	_ B (A C	R D	S	CHEDULE		
PAN	ELBOARD			VOLTS:	208	V	3Ø	4-WIRE			RECLA	IM
	RP5		BUS CA	APACITY:	100	Α	AIC:	10kA			ROOM	
				MCB:			MTG:	SURFACI	E			
	NAME			MLO:	100 A		ENCL: NEM A 1				LOCAT	ION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/1P	PANEL OUTLET BELOW 1			0					KIDDE FIRE SUPPRESSION SYSTEM	20A/1P	2
3	20A/1P	FUEL SA SYSTEM CPU 1				0				FUEL PUMP #1	15A/2P	4
5	20A/1P	CONT. PWR SA FUEL P1, P2 1					0			FUEL PUMP #1 		6
7	20A/1P	OUTLET WEST WALL			0					FUEL PUMP #2	15A/2P	8
9	20A/1P	UNIT HEATER 10 & 11				0						10
11	20A/1P	EF-12					0			OFFICE OUTLET	20A/1P	12
13	20A/1P	GARAGE DOOR			0					UNIT HEATER	20A/1P	14
15	20A/1P	GARAGE DOOR				0				EX FAN	20A/1P	16
17	20A/1P	GARAGE DOOR					0			FUEL PUMP GFCI RECEPTA CLE 1	20A/1P	18
19	20A/1P	GARAGE DOOR			0					SPACE		20
21	20A/1P	GARAGE DOOR				0				SPACE		22
23	20A/1P	GARAGE DOOR					0			SPACE		24

1 EXISTING PANELBOARD LAYOUT SCALE: NO SCALE

		EXISTI	N G F	AI	N E I	LBO	A C	R D	S	CHEDULE		
	ELBOARD		DI IS CA	VOLTS:	208			4-WIRE			RECLA	.IM
E	RP5		BUS CA	MCB:	100	100 A		AIC: 10kA MTG: SURFACE			ROOM 1	147
	NAME			MLO:	100	Α	ENCL:	NEMA 1			LOCATI	ION
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No.
1	20A/1P	PANEL OUTLET BELOW			0					KIDDE FIRE SUPPRESSION SYSTEM	20A/1P	2
3	20A/1P	FUEL SA SYSTEM CPU				0				OVERHEAD DOOR 7	20A/2P	4
5	20A/1P	CONT. PWR SA FUEL P1, P2					0			OVERHEAD DOOR 2	20A/2F	6
7	20A/1P	OUTLET WEST WALL			0					OVERHEAD DOOR 2	20A/2P	8
9	20A/1P	UNIT HEATER 10 & 11				0					20A/2F	10
11	20A/1P	EF-12					0			OFFICE OUTLET	20A/1P	12
13	20A/1P	GARAGE DOOR			0					UNIT HEATER	20A/1P	14
15	20A/1P	GARAGE DOOR				0				EX FAN	20A/1P	16
17	20A/1P	GARAGE DOOR					0			FUEL PUMP GFCI RECEPTACLE	20A/1P	18
19	20A/1P	GARAGE DOOR			5915			5915				20
21	20A/1P	GARAGE DOOR				2080		2080		FUELING CONTROL PANELBOARD - <u>FCP</u>	50 <u>A/</u> 3P	22
23	20A/1P	GARAGE DOOR					3615	3615			2	24

2 NEW PANELBOARD LAYOUT
SCALE: NO SCALE

		FUEL	LIN	G CC	TNC	ROL	LER	SCH	HE	DULE		
PAN	ELBOARD			VOLTS:	208	V	3Ø	4-WIRE			CEDV//	
F	CP		BUS CA	APACITY:	100	Α		22kA			SERVIO BAYS 1	
				MCB:				SURFACE	=			
	NAME			MLO:	100	Α	ENCL:	NEWA 1			LOCATI	ON
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No
1	20A/1P	DISP#1 (GASOLINE)	EQP	900	1800			900	EQP	DISP#2	20A/1P	2
3	20A/1P	RIH-1(A)	EQP	600		1200		600	EQP	RIH-2(A)	20A/1P	4
5	20A/1P	RIH-1(B)	EQP	600			1200	600	EQP	RIH-2(B)	20A/1P	6
7	20A/1P	OVERFILL TANK ALARM STATION	EQP	600	1200			600	EQP	OVERFIL TANK ALARM STATION	20A/1P	8
9	20A/1P	SOLENOID FOR PRIMARY PUMP	EQP	100		200		100	EQP	SOLENOID FOR PRIMARY DIESEL PUMP	20A/1P	10
11	20A/1P	SOLENOID FOR SECONDARY PUMP	EQP				0		EQP	SOLENOD FOR SECONDARY DIESEL PUMP	20A/1P	12
13	20A/1P	CANOPY LIGHTING CIRCUIT	LTG	500	1000			500	PWR	DIESEL INVENTORY CONTROLLER #2	20A/1P	14
15	20A/1P	GASOLINE INVENTORY CONTROLLER #1	PWR	500		680		180	EQP	REEL BANK	20A/1P	16
17	20A/1P	FIRE SUPPRESSION SYSTEM CONTROLLER	PWR	500			1100	600	EQP	FUEL & FLUID MANAGEMENT SYSTEM	20A/1P	18
19	20A/1P	SPARE			600			600	EQP	DEF DISPENSER	20A/1P	20
21	20A/1P	SPARE				0				SPARE	20A/1P	22
23	20A/2P	GASOLINE PRIMARY PUMP (1.5HP)	EQP	565			1315	750		DIESEL PRIMARY PUMP (2HP)	30A/2P	24
25	20A/2P	GASOLINE PRIVART POWP (1.5HP)	EQP	565	1315			750		DESEL PRIVART POIVIP (2019)	30A/2P	26
27	20A/2P	GASOLINE SECONDARY PUMP (1.5HP)				0				DIESEL SECONDARY PUMP (2HP)	30A/2P	28
29	20A/2P	I GASOLINE SECUNDART PUIVIP (1.5MP)					0			DESEL SECUNDART PUIVIP (2019)	SUAIZP	30

		PA		LD	<u>U A</u>	K D	3 (, П [ב ע	ULE		
PAN	IELBOARD			VOLTS:		V		4-WIRE				
ı	_P5	D5		APACITY:			AIC: 42kA				RECLAIM	1 147
L	<u> </u>			MCB:	400	Α	MTG:	SURFACE				
	NAME			MLO:			ENCL:	NEMA 1			LOCAT	ON
No.	BKR	DESCRIPTION	TYPE	LOAD	L1	L2	L3	LOAD	TYPE	DESCRIPTION	BKR	No
1			PWR	4434.1	4434.1							2
3	20A/3P	FUTURE WASH CONTROL PANEL	PWR	4434.1		4434.1				SPARE	20A/3P	4
5			PWR	4434.1			4434.1					6
7				27712.9	55425.8			27712.9	PWR			8
9	125A/3P	FUTURE PUMP CONTROL PANEL		27712.9		55425.8		27712.9	PWR	FUTURE BLOWER CONTROL PANEL	125A/3P	10
11			PWR	27712.9			55425.8	27712.9	PWR			12
13					0							14
15						0						16
17							0					18
19					0							20
21						0						22
23						•	0					24
25					0		_					26
27						0						28
29							0					30
31					0							32
33						0	_					34
35					_		0					36
37					0	_						38
39						0						40
41							0					42

TYPE	DESCRIPTION	SHIELDING	DRIVER	LIGHT SOURCE	INPUT WATTS	BASIS OF DESIGN
S41	NARROW, 4FT, PENDANT OR SURFACE MOUNTED, LED, LENSED BARE STRIPLIGHT TYPE LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL CONSIST OF DIE FORMED CHANNEL THAT IS COLD ROLLED HEAVY GAGE STEEL. CHANNEL HOUSING SHALL CONTAIN LED DRIVER & PROVIDE AN ASSEMBLY FOR MOUNTING LED ARRAYS & CURVED LENSING OPTIONS. LUMINAIRE SHALL DESIGNED & MANUFACTURED TO ALLOW FOR WIDE OPTICAL DISTRIBUTION. DLC LISTED	WIDE DISTRIBUTION CURVED ACRYLIC LENS	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING NOMINAL 4,400 LUMENS, 3500K, MINIMUM 85 CRI.	46	METALUX - SNLED LENSED SERIES OR EQUAL
T42	2X4, RECESSED, STATIC, LENSED LED TROFFER WITH FOLLOWING MINIMUM SPECIFICATIONS: COLD ROLLED STEEL HOUSING WITH FULL LENGTH STIFFENERS ADDED FOR HOUSING RIGIDITY. UNIT SHALL BE DESIGNED FOR INSTALLATION IN GWB TYPE HARD CEILING. PROVIDE ALL REQUIRED MOUNTING HARDWARE. DOOR TRIM SHALL BE FULL SIZE, FLUSH WHITE, EXTRUDED ALUMINUM WITH SPRING LATCHES. PAINTED AFTER FABRICATION. DLC LISTED	A12 PATTERN ACRYLIC (0.125" HP)	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING NOMINAL 4,800 LUMENS, 3500K, MINIMUM 85 CRI.	43	METALUX - 2 GR LED SERIES OR EQUAL
V41	4FT LONG, SURFACE OR PENDANT MOUNTED, LED, VAPORTITE LUMINAIRE WITH NON-METALLIC HOUSING & ACRYLIC LENS. STAINLESS STEEL LATCHES. PRECISION OPTICS FOR WIDE DISTRIBUTION. UL LISTED FOR WET LOCATIONS. DLC LISTED. CONTRACTOR SHALL COORDINATE ELECTRICAL WHIP CONNECTION TO MAKE SURE FIELD CONNECTIONS DO NOT VOID WET LOCATION LISTING.	ONE-PIECE MOLDED ACRYLIC LENS	(1) LED DRIVER, 120-277, 0-10V, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING 4,000 LUMENS, 3500K	51	METALUX - VT2 LED SERIES OR EQUAL
V42	4FT LONG, WALL MOUNTED, LED, VAPORTITE LUMINAIRE WITH NON-METALLIC HOUSING & ACRYLIC LENS. STAINLESS STEEL LATCHES. PRECISION OPTICS FOR WIDE DISTRIBUTION. UL LISTED FOR WET LOCATIONS. DLC LISTED. CONTRACTOR SHALL COORDINATE ELECTRICAL WHIP CONNECTION TO MAKE SURE FIELD CONNECTIONS DO NOT VOID WET LOCATION LISTING.	ONE-PIECE MOLDED ACRYLIC LENS	(1) LED DRIVER, 120-277, 0-10V, INTEGRAL TO LUMINAIRE.	(1) LED ARRAY DELIVERING 11,000 LUMENS, 3500K	104	METALUX - VT2 LED SERIES OR EQUAL
SL3N	OUTDOOR, POLE MOUNTED LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE HEAVY WALL DIE-CAST ALUMINUM HOUSING & INTEGRAL HEAT SINK. INTEGRAL DEDICATED OPTICAL & DEDICATED ELECTRONICS COMPARTEMENTS. PROVIDE COMPLETE WITH EXTRUDED ALUMINUM QUICK MOUNT ARM MATCHING THE FIXTURE DESIGNED FOR SQUARE POLE INSTALLATION. UL LISTED FOR WET LOCATION, MINIMUM IP66 RATED. TYPE III OPTICAL DISTRIBUTION. BRONZE TGIC POLYESTER POWDERCOAT FINISH. PROVIDE WITH 16FT TALL, 4" SQUARE ALUMINUM POLE FINISH TO MATCH FIXTURE. PROVIDE COMPLETE WITH CONCRETE BASE.	CLEAR GLASS LENS	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE. COLD WEATHER RATED. 600mA DRIVER CURRENT.	(1) LED ARRAY 2-LIGHT SQUARE DELIVERING 8,187 LUMENS, 4,000K CCT, MINIMUM CRI 80.	66	LUMINAIRE: McGRAW-EDISON - GPC SERIES POLE: 4" SQUARE ALUMINUM OR EQUAL
SL3	OUTDOOR, POLE MOUNTED LED LUMINAIRE WITH FOLLOWING MINIMUM SPECIFICATIONS: HOUSING SHALL BE HEAVY WALL DIE-CAST ALUMINUM HOUSING & INTEGRAL HEAT SINK. INTEGRAL DEDICATED OPTICAL & DEDICATED ELECTRONICS COMPARTEMENTS. PROVIDE COMPLETE WITH EXTRUDED ALUMINUM QUICK MOUNT ARM MATCHING THE FIXTURE DESIGNED FOR SQUARE POLE INSTALLATION. UL LISTED FOR WET LOCATION, MINIMUM IP66 RATED. TYPE III OPTICAL DISTRIBUTION. BRONZE TGIC POLYESTER POWDERCOAT FINISH. PROVIDE ON EXISITNG 4" SQUARE ALUMINUM POLE.	CLEAR GLASS LENS	(1) LED DRIVER, 120-277, INTEGRAL TO LUMINAIRE. COLD WEATHER RATED. 600mA DRIVER CURRENT.	(1) LED ARRAY 1-LIGHT SQUARE DELIVERING 8,187 LUMENS, 4,000K CCT, MINIMUM CRI 80.	66	LUMINAIRE: McGRAW-EDISON - GPC SERIES OR EQUAL
EXA	COMBINATION, ILLUMINAITED "EXIT" SIGN & EMERGENCY LAMP HEADS. SHALL BE CONCEALED LED TYPE IN WHITE THERMOPLASTIC HOUSING. DESIGNED FOR SELF POWERED OPERATION WITH BATTERY BACKUP & INTEGRAL TEST CAPABILITY. UNIVERSAL MOUNTING CAPABILITY. UNIVERSAL SHEVRON STYLE KNOCKOUTS. REFER TO DRAWINGS FOR REQUIRED DIRECTIONS. SHALL BE DESIGNED & MANUFACTURED TO MEET UL 924 STANDARD. BATTERIES SHALL BE SIZED TO ACCOMMODATE LOW VOLTAGE REMOTE HEAD FOR EGRESS ILLUMINATION. PROVIDE WITH MATCHING REMOTE HEADS FOR OUTDOOR INSTALLATION. PROVIDE ALL INTERCONNECTING WIRING AS REQURIED.	NA	LED DRIVER & INTEGRAL BATTERY PACK, 120-277VAC, BATTARIES SHALL BE SIZES TO ACCOMMODATE UNIT MOUNTED HEADS AS WELL AS REMOTE HEAD FOR EXTERIOR.	RED LED ARRAY	2.7	EXITRONIX - VLED-EL90 SERIES REMOTE HEAD - MLED1 SERIES OR EQUAL
EMA	EMERGENCY LIGHT. SHALL BE CONCEALED LED TYPE IN WHITE RUGGED, DURABLE, INJECTION MOLDED THERMOPLASTIC MATERIAL. DESIGNED FOR SELF POWERED OPERATION WITH BATTERY BACKUP & INTEGRAL TEST CAPABILITY. SEALED NICKEL CADMIUM. (2) ADJUSTABLE WHITE LED LIGHT SOURCE FOR PATH OF EGRESS.	HIGH IMPACT THERMOPLASTIC	(1) INTEGRAL LED DRIVER, UNIVERSAL VOLTAGE	(2) WHITE LED SOURCES	1	SURE-LITE - APEL SERIES OR EQUAL
EMB	EMERGENCY LIGHT. WET LOCATION RATED. SHALL BE CONCEALED LED TYPE IN WHITE DIE CAST ALUMINUM HOSUING. IP66 RATED. DESIGNED FOR SELF POWERED OPERATION WITH BATTERY BACKUP & INTEGRAL TEST CAPABILITY. SEALED NICKEL CADMIUM. (2) ADJUSTABLE WHITE LED LIGHT SOURCE FOR PATH OF EGRESS.	HIGH IMPACT POLYCARBONATE LENS	(1) INTEGRAL LED DRIVER, UNIVERSAL VOLTAGE	(2) WHITE LED SOURCES	1	ATLITE - SELD SERIES OR EQUAL

GENERAL LUMINAIRE SCHEDULE NOTES:

- UNLESS OTHERWISE NOTED, BASIS OF DESIGN MANUFACTURER'S NAMES AND CATALOG NUMBERS ARE USED FOR QUALITY AND PERFORMANCE ONLY. WHERE INDICATED "OR A. EQUAL" LUMINAIRE AND THEIR ASSOCIATED DEVICES MANUFACTURED BY OTHERS SHALL BE EQUALY ACCEPTABLE PROVIDED THEY MEET OR EXCEED IN PERFORMACE AND
- QUALITY OF THE BASIS OF DESIGN LUMINAIRE.

C. ALL LUMINIARES SHALL BE FURNISHED COMPLETE WITH SPECIFIED LAMPS IF APPLICABLE.

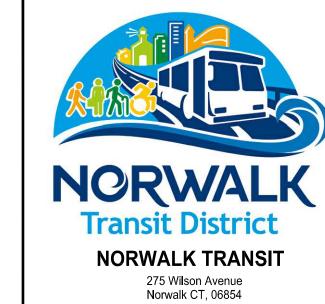
- B. CONTRACTOR SHALL VERIFY VOLTAGE SUPPLY TO EACH LUMINAIRE PRIOR TO ORDERING THE APPROVED FIXTURE.
- D. LUMINAIRES SHALL BE INDEPENDENTLY SUPPORTED IN ACCORDANCE WITH ALL APPLICABLE CODES & SPECIFICATIONS
- E. CONTRACTOR SHALL VERIFY CEILING TYPE FOR EACH LUMINAIRE LOCATION & ORDER ACCORDINGLY.
- F. ALL LED LUMINAIRES SHALL BE DESIGNED & MANUFACTURED IN ACCORDANCE WITH IESNA LM-79 & LM-80 STANDARDS.
- G. CONTRACTOR SHALL VERIFY ALL MOUTING REQUIREMETNS OF EACH EXIT SIGN PRIOR TO ORDERING, AS WELL AS DIRECTIONAL REQUIREMENTS.
- H. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION REGARDING LUMINAIRE AND INSTALLATION REQUIREMENTS. PROVIDE ALL LSITED OPTIONS AND ACCESSORIES.

GENERAL NOTES:

A. CONTRACTOR SHALL VERIFY ALL CIRCUIT BREAKER & WIRING REQUIREMENTS WITH ACTUAL EQUIPMENT THAT WILL BE PROVIDED.

1. THE FOLLOWING CIRCUIT BREAKER IS PRESENTLY CONNECTED TO AN EXISTING FUELING SYSTEM EQUIPMENT, IT SHALL BE REMOVED ONCE THE EQUIPMENT HAS BEEN REMOVED. PROVIDE BLANKS FOR THE RESULTING SPACES, MODIFY CIRCUIT DIRECTORY ACCORDINGLY.

- 2. PROVIDE NEW CIRCUIT BREAKER IN THE EXISTING PANELBOARD.
- 3. THE FOLLOWING CIRCUIT BREAKER IS PRESENTLY CONNECTED TO AN EXISTING FUELING SYSTEM EQUIPMENT, IT SHALL BE REMOVED ONCE THE EQUIPMENT HAS BEEN REMOVED. PROVIDE NEW 2 POLE 20 AMP CIRCUIT BREAKER FOR THE NEW OVERHEAD DOORS IN THE RESULTING SPACES, MODIFY CIRCUIT DIRECTORY ACCORDINGLY.



NORWALK TRANSIT DISTRICT FUEL ISLAND, TANK REPLACEMENT AND SERVICE LANE UPGRADES



NOTE:
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1 BID ADDENDUM #2 0 ISSUED FOR BID REVISIONS

DWG. TITLE **ELECTRICAL SCHEDULES**

SCALE BAR SHOWN IS TWO INCHES ON THE ORIGINAL DRAWING. IF NOT TWO INCHES ON THIS SHEET, ADJUST ACCORDINGLY DATE 01-24-2020 PROJ. No. 437404

FQUIPMENT ROOM/LOCATION HP KW DESIGNATION DESIGNATION HERE DESIGNATION DESIGNATION HERE DESIGNATION HERE DESIGNATION DESIGNATION HERE DESIGNATION DESIGNATI	MECHANICAL EQUIPME	NT CONNECTIO	ON SC	HED	ULE																
TITEM DESIGNATION DESIGNATION AND PARKEN STATE AND DISCONNECT SWITCH SOUND OF STATE AND DISCONNECT SWITCH SWITCH STATE AND DISCONNECT SWITCH S		EQUIPMENT						PO	WER SUPP	LY				СО	NTRC)L DE	VICE	<u>s</u>			
	I FOLIPMENT NAME	ROOM/LOCATION	НР	kW	AMPS PHAS	E VOLTAGE	SOURCE		SIZE (AWG)	SIZE (AWG)	RACEWAY SIZE		STARTER NEMA SIZE	COMBINATION FVNR MOTOR STARTER/DISCONNECT SWITCH	DISCONNECT SWITCH	(SUPPLIED BY OTHERS)	(SUPPLIDED BY OTHERS)	(LINE VOLTAGE) VARIABLE FREQUENCY DRIVE	DUCT DETECTO WITH TEST STATI	FIRE ALARM FAN SHUTDOWN	PPLY

MECHANICAL EQUIPMENT CONNECTION SCHEDULE NOTES

1. THE EXHAUST FAN SHALL BE WIRED TO LOCAL LIGHITNG BRANCH CIRCUIT. THE FAN SHALL BE CONTROLLED ON BY THE LIGHTING CONTROL DEVICE.