

MAINE TURNPIKE AUTHORITY

ADDENDUM NO. 2

CONTRACT 2018.23

**MAINTENANCE GARAGE EXTENSIONS AND HVAC SYSTEM IMPROVEMENTS
IN AUBURN, CROSBY, GRAY, KENNEBUNK, AND LITCHFIELD**

GENERAL

All questions regarding Contract 2018.23 shall be submitted in writing by January 3, 2019 at 12 pm. Questions received after that time may not be answered.

Contractors shall download Maine Turnpike Authority Supplemental Specifications from the MTA website.

Contract Wage Rates are anticipated to be included in Addendum No. 3.

If additional site visits are required, the Contractor shall notify and obtain approval from the Authority prior to visiting the Project site. The contact person is Jamie Mason, Construction Project Manager, at (207) 949-1360.

SPECIAL PROVISIONS

SP-65, Special Provision Section 09900 1.1 Summary, delete “as well as all existing interior surfaces (walls and ceiling)”.

SP-65, Special Provision Section 09900 1.3 Scope of Work, delete “and the existing walls and ceiling”.

QUESTIONS

The following are questions asked via email or during the site visits held on December 10, 2018. Answers to the questions are noted. Bidders shall utilize this information in preparing their bid.

Question 1: The thermal insulation specification at SP-37 call for fiberglass or spray foam insulation to achieve R-19 in the walls and R-40 in the ceilings. I am planning to quote R-19 fiberglass batts with a 6 mil poly vapor barrier in the walls. The roof rafters of the shed roof additions are specified as 2 x 10's at 12" O.C. There is not adequate room in a 2x10 rafter cavity to fit R-38 (even R-38 high density) batt insulation as specified on the plans and a vent baffle. A minimum of a 2x12 rafter is required. Do you want to go with all foam here or a combination of foam and batt insulation? Either way, we still need to include a vent baffle to be able to get outside air from the soffit up to the flat attic cavity.

Answer: R-19 batt with vapor barrier in the walls is appropriate. If the required R-value in the ceilings cannot be achieved using fiberglass insulation within the proposed cavity then spray foam insulation shall be used.

Question 2: Is it safe to assume there will be either new or existing sheathing over the top chords of the existing roof trusses? There is 5/8" zip sheathing specified over the shed addition rafters but the drawings do not show or specify sheathing at the existing roof trusses. I assume where there is an existing shingle roof being replaced, there is sheathing over the trusses. We will need something to staple the vent baffles against where they go up into the flat attic of the existing trusses.

Answer: The existing sheathing on the roof trusses shall be reused unless there is evidence of damage or rotting, in that case it shall be replaced by the Contractor. The existing sheathing on top of the roof trusses appears to be pine board. This can be observed by accessing the attic through the Kennebunk #1 building overhead access. If more information regarding the sheathing is required, a site visit can be set up at the Kennebunk maintenance facility by calling Jamie Mason at the number listed above.

Question 3: HVAC units shown on the plans call out 208v single phase but that model # shows only available in 3 phase. Do you know which they will actually be, single or 3 phase?

Answer: A 1.5 HP motor is available from the manufacturer in single phase.

Question 4: D-strat fans show being controlled by a fan speed control. The model # provided on prints shows these are actually controlled wireless and from a fan management system. Also shows outlets mounted to the power fans on the ceiling which of these methods will be used?

Answer: Refer to the Automatic Temperature Controls Specification Section 15900. The control of the fans is not wireless but wired low voltage (separate from the power to the fans). It is correct to power all the destratification fans 115v separately from the low voltage control circuit.

Question 5: Gable end fans, how will those be controlled, and do we have cut sheet or current drawing? What voltage will these fans require?

Answer: See EF-1 in the Destratification and Exhaust Fan Schedule on the mechanical plans (M sheets).

Question 6: Just to clarify, lighting is it 8 total lights in additions or 8 per bay as noted on the specs? Or is it 1 light centered for each garage bay? i.e. a 5 bay gets 5 lights and an 8 bay gets 8 new lights.

Answer: Interior LED lights shall be installed in place of the existing interior lights at all locations. Typically, there is one light at each end of the building, centered in the direction that the roof trusses are spanning. Additionally, there are 2 lights, one in the front and one in the back, at each overhead door column support. For an 8 bay garage this layout results in 16 total lights to be replaced with LED. For a 5 bay garage this layout results in 10 total lights to be replaced with LED. If required, site visits can be set up to verify existing interior lighting locations. Additional LED lights are required centered at each bay of the proposed building extension and shall be oriented perpendicular to the existing lights, 8 total for an 8 bay and 5 total for a 5 bay. See attached approximate interior lighting layout for reference.

Question 7: 3 total exterior outlets? 1 quad and 2 duplex per building as noted on the power plans?

Answer: One exterior quad receptacle at each building as located by the Resident. 3 additional exterior duplex receptacles at all other buildings as located by the Resident, except Crosby #1 (5 bay), which will have 2 additional exterior duplex receptacles. One receptacle at each end wall of the buildings and 2 on the back wall of the buildings, except at Crosby #1 (5 bay), which will have 1 additional on the back wall. The Electrical Sheets E1 and E2 will be reissued with notes updated. The Quantity Sheet S2 will also be updated – see this addendum for updated plan sheets.

Question 8: Does the existing interior pine board wall sheathing and ceiling plywood need to be surface prepared and painted?

Answer: No, only the new ceiling and wall plywood sheathing shall be painted. The existing sheathing on the walls and sheathing shall remain with no repainting. See specification revision included in this addendum.

Question 9: Does the slab on both sides of the brine room at the Auburn garage need to be removed?

Answer: No, only the portion of the slab that will be in the way of the proposed extension slab will need to be removed. The portion of the slab that will not conflict with the building extension can remain.

Question 10: Do the cabinet vent penetrations need to be installed on the new backwall?

Answer: MTA shall be responsible for cabinet and ventilation reinstallation after all building extension work is completed.

Question 11: The bottom chord of the truss is shown in the plans as bearing on the temporary header beam. Is it okay to leave the plywood ceiling in place between the truss bottom chord and temporary header beam?

Answer: No, the first two rows of plywood ceiling panels shall be removed and safely stored while the temporary support system is installed. The plywood panels shall remain safely stored until the temporary support system is removed, then the plywood ceiling panels shall be reinstalled.

Question 12: Slope the proposed structural slab towards the existing floor drains?

Answer: Yes, the pitch of the new floor slab shall match existing floor slab. The existing pitch shall be verified in field by the Contractor and maintained while constructing the new slab.

Question 13: Is it okay to patch the penetrations in the ceiling left over from removing the knee braces with a different color plywood? It will be hard to match the existing color.

Answer: Yes, a different color plywood may be used for the patching of the ceiling penetrations left over from the removal of the knee braces near the backwall.

Question 14: At Crosby Building #1, are snow guards required on the back roof in the area of the generator shed?

Answer: Yes, the only instance a snow guard is required on the back side of the roof of any of the buildings is at Crosby Building #1 in the area of the generator shed. This will mitigate snow build up between the generator shed and new backwall.

Question 15: Line item 815.01 through 815.08, do you want to see our (electrical only) lump sum for each building here? Which would include all electrical conduit, wiring, electrical mechanical equipment, and connections, exterior and interior devices and lights?

Answer: Items 815.01 through 815.08 shall be the lump sum of all building work required in the plans and specifications including the electrical work. The only individual electrical items are 815.16, 815.18 and 815.19, receptacles and conduit; and will be paid for separately and these items are for the installation of the receptacles only.

Question 16: Line item 815.16, for electrical conduit: from my interpretation of the specs and drawings, the approximate quantity listed is quite a ways off from the quantity I have estimated per code. Is this your approximate quantity for each building or for all eight buildings? What is expected to be included in the unit price for this item? Just the conduit? Or should it have the whole complete assembly of material needed for the installation of a run of conduit? (conduit, wire, supports, boxes, etc.)

Answer: The 815.16 conduit item is for installation of receptacles only and will include all conduit, wire, supports and boxes needed for installation of the conduit for electrical receptacles. All other conduit will be incidental to the Lump Sum pay items 815.01 through 815.08.

Question 17: Line item 815.18 and 815.19, receptacles inside and outside. What should be included in the unit price for these items? Just the receptacle? Or should it include everything for the complete assembly of the device? (device, box, supports, conduit to the next device, etc.)

Answer: Pay items 815.18 and 815.19, receptacles inside and outside will include the device, box, supports and all incidentals need to provide working electrical receptacles, per code, inside and outside the maintenance garages. Conduit for the receptacles is paid for under item 815.16.

Question 18: Please confirm that the existing walls and ceilings are to be painted.

Answer: No, the existing walls and ceiling are to remain as is, unpainted. Only the new ceiling and wall plywood on the interior of the new section of the building is to be painted. See answer to question 8.

Question 19: Temporary facilities – will the Turnpike Authority require a separate office space and if so will one be required for each of the project locations?

Answer: No, the maintenance garages do not serve as office space. No additional office space will be required, the office buildings at each location will remain functioning.

Question 20: As the project will take place over multiple years, will substantial completion be given for each building separately? Will the building warranties start at the completion of a building or a total project completion? Will retainage be released after completion of each building or after total project completion?

Answer: See section 107.1 Contract Time and Contract Completion Date and section 107.1.1 Substantial Completion. Building warranties will start at the acceptance of each building separately, and retainage reduction may be requested at the acceptance of each individual building. For payment see section 108 – Payment in the MTA supplemental specifications.

Question 21: The bid sheet states that Crosby 2, but the plans indicate that it is Crosby 1 that requires having a new oil/water separator. Please clarify.

Answer: Crosby Building #1 requires an oil/water separator tank. Crosby building #2 does not, see revised quantity sheet in this addendum.

Question 22: In regards to the oil/water separator, there are no specifications listed on what is required for a tank. We will need specifications on the tanks for pricing.

Answer: See attached cutsheet, attachment 2.

Question 23: Can you confirm that all plumbing lines and electrical conduit are overhead?

Answer: Plumbing lines run overhead along the proposed LVL header beam, and electrical conduits are surface mounted on the interior of the building. There are underground water, gas and electrical line exterior to the building that will need to be relocated. Exterior underground electrical line relocation will be required at Crosby 3, Gray, Litchfield. Exterior underground gas line relocation will be required at all building locations. Exterior underground water line relocation will be required at Litchfield.

ATTACHMENTS

- Approximate Interior Lighting Layout
- Oil/Water Separator Tank Cut Sheet
- Revised Plan Sheets

Notes: The above items shall be considered as part of the bid submittal.

The total number of pages included with this addendum is Twelve (12).

All bidders are requested to acknowledge the receipt of the Addendum No. 2 by signing below and faxing this sheet to Nathaniel Carll, Purchasing Department, Maine Turnpike Authority at 207-871-7739. Bidders are also required to acknowledge receipt of this Addendum No. 1 on Page P-4 of the bid package.

Business Name

Print Name and Title

Signature

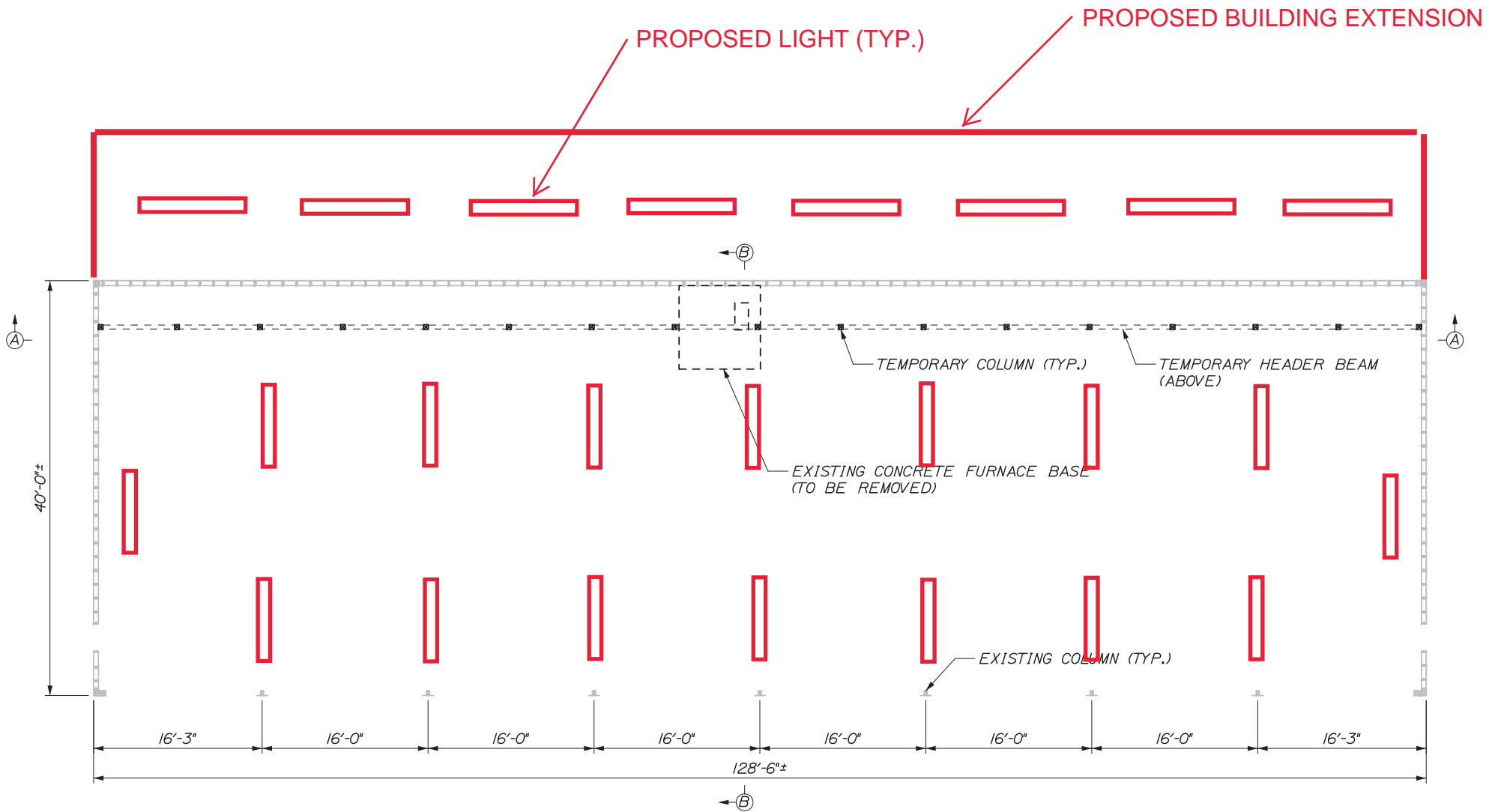
Date

December 21, 2018

Very truly yours,

MAINE TURNPIKE AUTHORITY

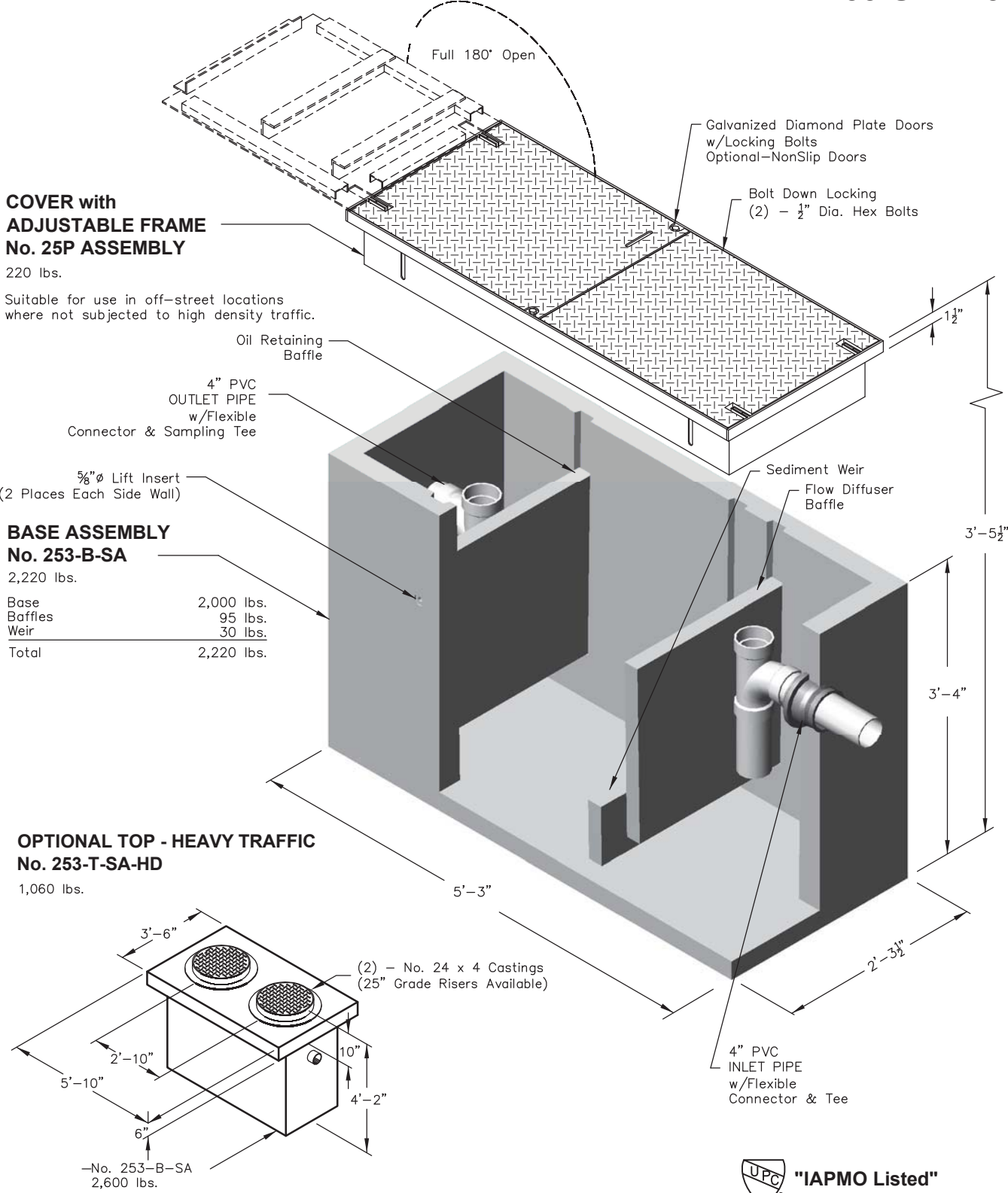
Nathaniel Carll
Purchasing Manager
Maine Turnpike Authority



~~EXISTING FRAMING PLAN AND TEMPORARY SUPPORT PLAN VIEW~~
~~SCALE: 1/8" = 1'-0"~~

APPROXIMATE INTERIOR LIGHTING LAYOUT

CONTRACTOR IS RESPONSIBLE FOR FIELD LOCATING ALL LIGHTING AND REPLACING WITH LED. LIGHTING LAYOUT MAY VARY FROM BUILDING TO BUILDING. LAYOUT FOR AN 8 BAY GARAGE SHOWN, NON-8 BAY GARAGES WILL BE SIMILAR.



COVER with ADJUSTABLE FRAME No. 25P ASSEMBLY

220 lbs.
Suitable for use in off-street locations where not subjected to high density traffic.

BASE ASSEMBLY No. 253-B-SA

2,220 lbs.
Base 2,000 lbs.
Baffles 95 lbs.
Weir 30 lbs.
Total 2,220 lbs.

OPTIONAL TOP - HEAVY TRAFFIC No. 253-T-SA-HD

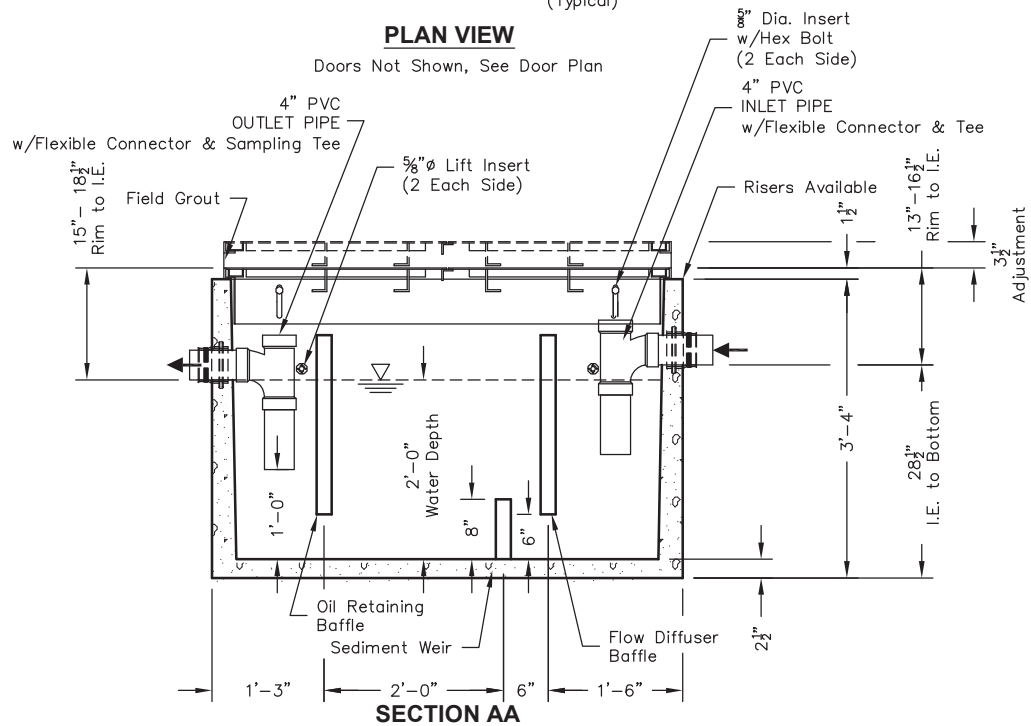
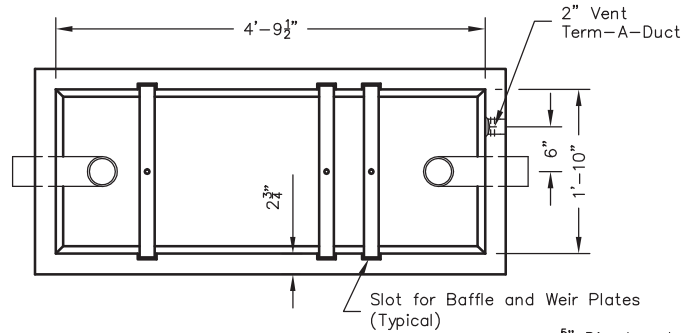
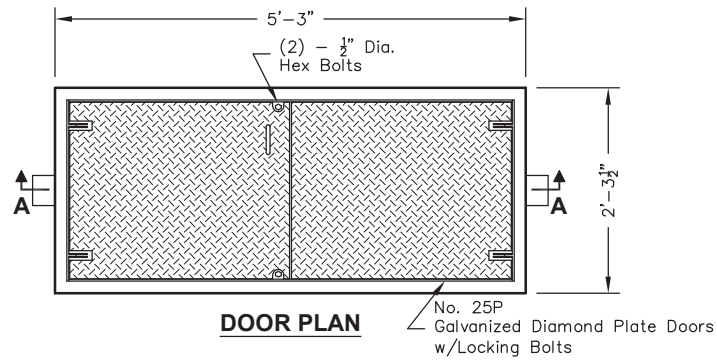
1,060 lbs.
(2) - No. 24 x 4 Castings (25" Grade Risers Available)
-No. 253-B-SA 2,600 lbs.



Note: Designed for 0 to 5'-0" of Cover


<p>PO Box 323, Wilsonville, Oregon 97070-0323 Tel: (503) 682-2844 Fax: (503) 682-2657</p>	<p>253-SA-125</p>	<p>253-SA-125 OIL / WATER SEPARATOR 125 GALLON - API STYLE</p>
	<p>File Name: 020-253SA-125</p>	
	<p>Issue Date: 2016</p>	
	<p>oldcastleprecast.com/wilsonville</p>	

253-SA-125

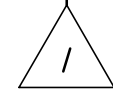
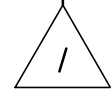


Notes:

- Designed in accordance with ASTM C 890 for AASHTO HS20-44 vehicle loading
- Flow Rate 8 GPM based on 15 min. retention time.
- Manufacturer's recommendations:
 - 1.) Ventilate each end to open atmosphere.
 - 2.) Prior to "Start Up" of System, fill with clean water to bottom of outlet pipe (approx. one foot deep). For best results, fill to flow line.
 - 3.) Follow Regular Inspection, Cleaning, & Maintenance Schedule (See Clean Out & Maintenance).

 Oldcastle Precast® PO Box 323, Wilsonville, Oregon 97070-0323 Tel: (503) 682-2844 Fax: (503) 682-2657	Revised 5-2-12	253-SA-125 OIL / WATER SEPARATOR 125 GALLON - API STYLE
	File Name: 020-253SA-125	
	Issue Date: 2016	
	oldcastleprecast.com/wilsonville	

ITEM NO.	DESCRIPTION	UNIT	AUBURN QUANTITY	CROSBY #1 QUANTITY	CROSBY #2 QUANTITY	CROSBY #3 QUANTITY	GRAY QUANTITY	KENNEBUNK #1 QUANTITY	KENNEBUNK #2 QUANTITY	LITCHFIELD QUANTITY	TOTAL QUANTITY
815.01	Buildings - Auburn	LS	1								1
815.02	Buildings - Crosby #1	LS		1							1
815.03	Buildings - Crosby #2	LS			1						1
815.04	Buildings - Crosby #3	LS				1					1
815.05	Buildings - Gray	LS					1				1
815.06	Buildings - Kennebunk #1	LS						1			1
815.07	Buildings - Kennebunk #2	LS							1		1
815.08	Buildings - Litchfield	LS								1	1
815.09	Oil/Water Separator Tank Relocation - Auburn	LS	1								1
815.1	Oil/Water Separator Tank Relocation - Crosby #1	LS		1							1
815.11	Oil/Water Separator Tank Relocation - Gray	LS					1				1
815.12	Waterline Relocation - Litchfield	LS								1	1
815.13	Wall Sheathing	SF	280	280	280	280	280	280	280	280	2240
815.14	Roof Sheeting	SF	700	700	500	750	750	750	750	750	5700
815.15	Windows	EA	3	3	3	3	4	4	4	3	28
815.16	Electrical Conduit	LF	180	180	180	230	300	300	300	230	2070
815.17	2" Diameter Copper Waterline	LF	100	100	100	130	160	160	160	120	1150
815.171	3/4" Diameter Copper Waterline	LF	15	15	15	15	15	15	15	15	120
815.18	Electrical Receptacle - Inside	EA	4	4	4	5	7	7	7	5	46
815.19	Electrical Receptacle - Outside	EA	4	4	3	4	4	4	4	4	31
815.2	Air Compressor	EA					1				3



Scale:			
No.	Revision	By	Date
1	815.19 QUANTITY	ERB	12/18

Designed by:					
HNTB					
CONSULTANT PROJECT MANAGER: BRUCE MUNGER, PE					
	By	Date	By	Date	
Designed	BRG	11\17	Checked	RBM	11\17
Drawn	ERB	11\17	In Charge of	RAL	11\17

HNTB CORPORATION
 340 County Road, Suite 6-C
 Westbrook, ME 04092
 TEL (207) 774-5155
 FAX (207) 228-0909

**THE GOLD STAR
MEMORIAL HIGHWAY**

MTA PROJECT MANAGER: BRIAN TADDEO, PE

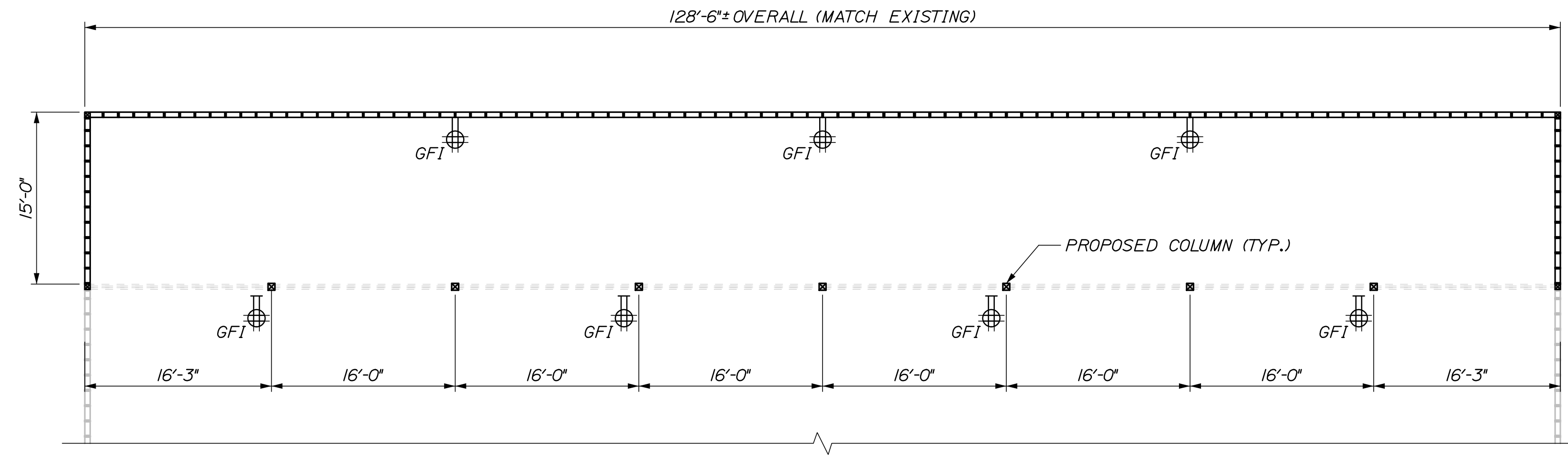
MAINTENANCE GARAGE EXTENSIONS

ESTIMATED QUANTITIES

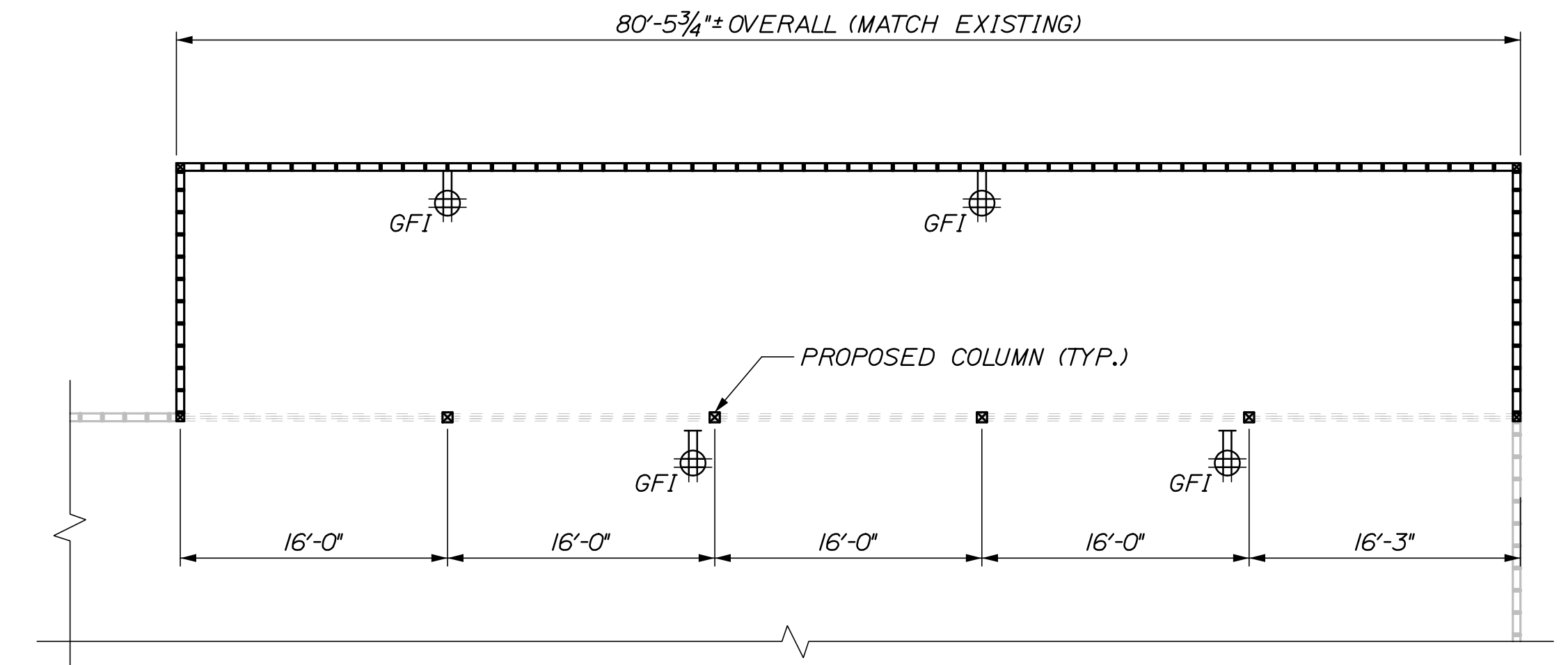
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CONTRACT: 2018.23

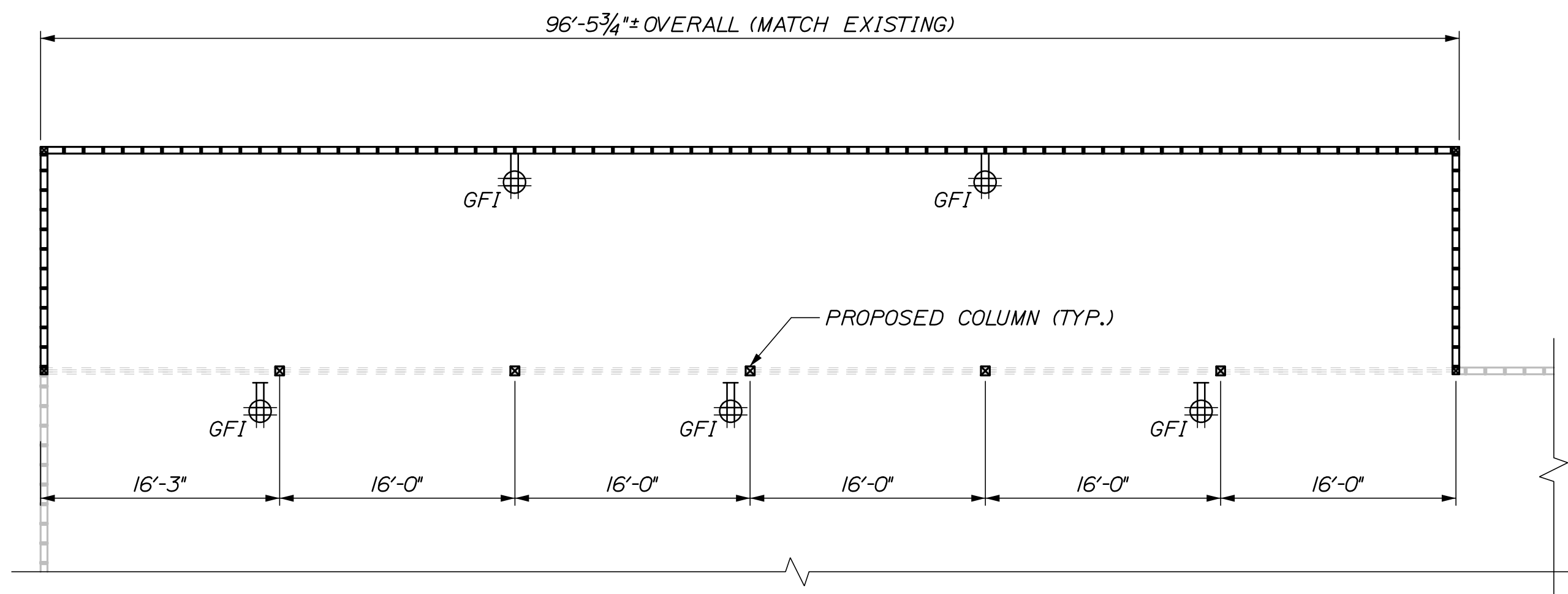
Date: 12/19/2018



PROPOSED ELECTRICAL PLAN VIEW - KENNEBUNK #1, KENNEBUNK #2, AND GRAY
SCALE: N.T.S.



PROPOSED ELECTRICAL PLAN VIEW - AUBURN
SCALE: N.T.S.



PROPOSED ELECTRICAL PLAN VIEW - LITCHFIELD
SCALE: N.T.S.

ELECTRICAL SYMBOLS:
NOT TO SCALE

SYMBOL	DESCRIPTION
	125V, 20A, QUAD GROUND FAULT RECEPTACLE

- ELECTRICAL NOTES:**
1. ALL PROPOSED CONDUIT IN EXTENDED SECTION OF GARAGE SHALL BE SURFACE MOUNTED AND MATCH EXISTING FEEDER CONDUIT.
 2. ALL RECEPTACLE BOXES SHALL BE SURFACE MOUNTED.
 3. ONE EXTERIOR MOUNTED QUAD RECEPTACLE SHALL BE MOUNTED ON THE OUTSIDE OF EACH OF THE MAINTENANCE GARAGES. THE RECEPTACLES WILL BE LOCATED BY A MTA MAINTENANCE REPRESENTATIVE.
 4. ALL NEEDED ELECTRICAL WORK SHALL BE INCIDENTAL TO THE LUMP SUM BUILDING ITEM.
 5. THREE (3) ADDITIONAL RECEPTACLES SHALL BE INSTALLED ON THE EXTERIOR OF EACH BUILDING EXCEPT CROSBY #1. TWO (2) ADDITIONAL RECEPTACLES SHALL BE INSTALLED ON THE EXTERIOR OF CROSBY BUILDING #1. RECEPTACLES WILL BE FIELD LOCATED BY THE RESIDENT.

Filename: 057_Electrical Plans_1.dgn

Scale:		Designed by:	
No.	Revision	By	Date
1	ELECTRICAL NOTES	ERB	12/18

HNTB			
CONSULTANT PROJECT MANAGER: BRUCE MUNGER, PE			
Designed	By	Date	Checked
	BRG	11\17	RBM
Drawn	By	Date	In Charge of
	ERB	11\17	RAL

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MTA PROJECT MANAGER: BRIAN TADDEO, PE

MAINTENANCE GARAGE EXTENSIONS

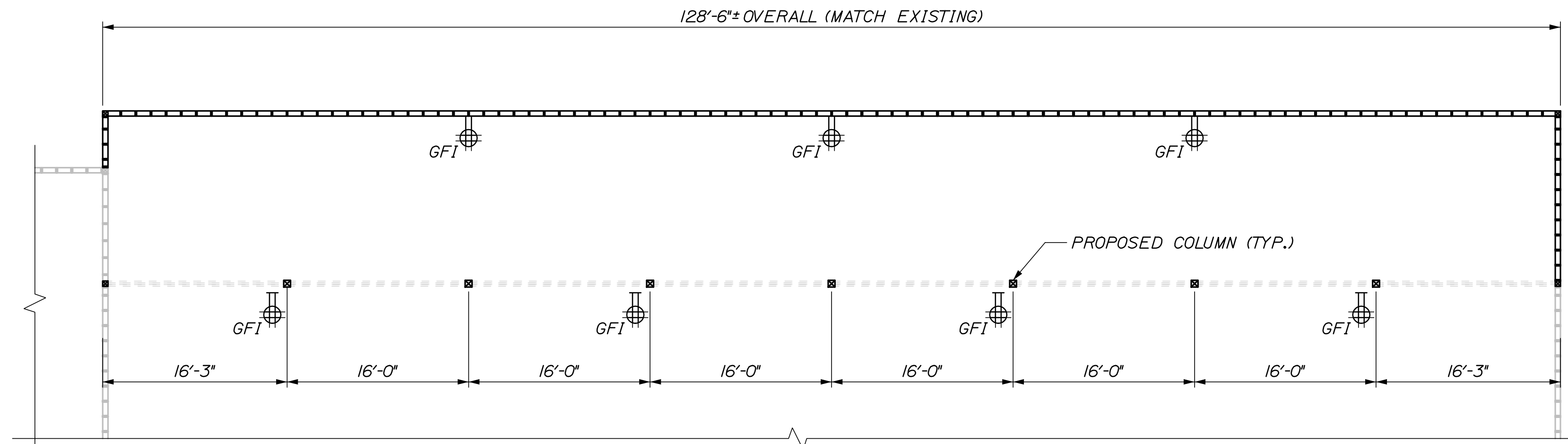
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SHEET NUMBER: E1

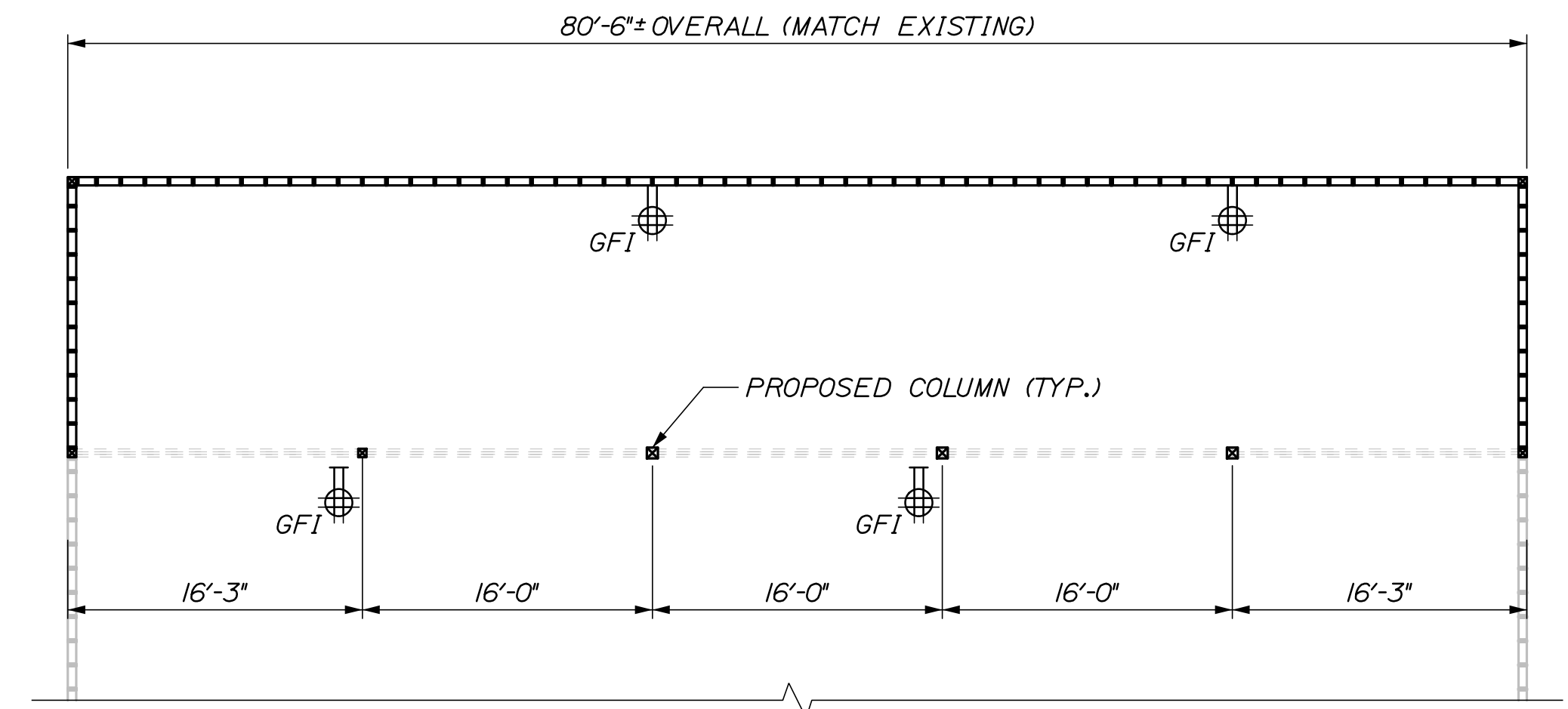
CONTRACT: 2018.23

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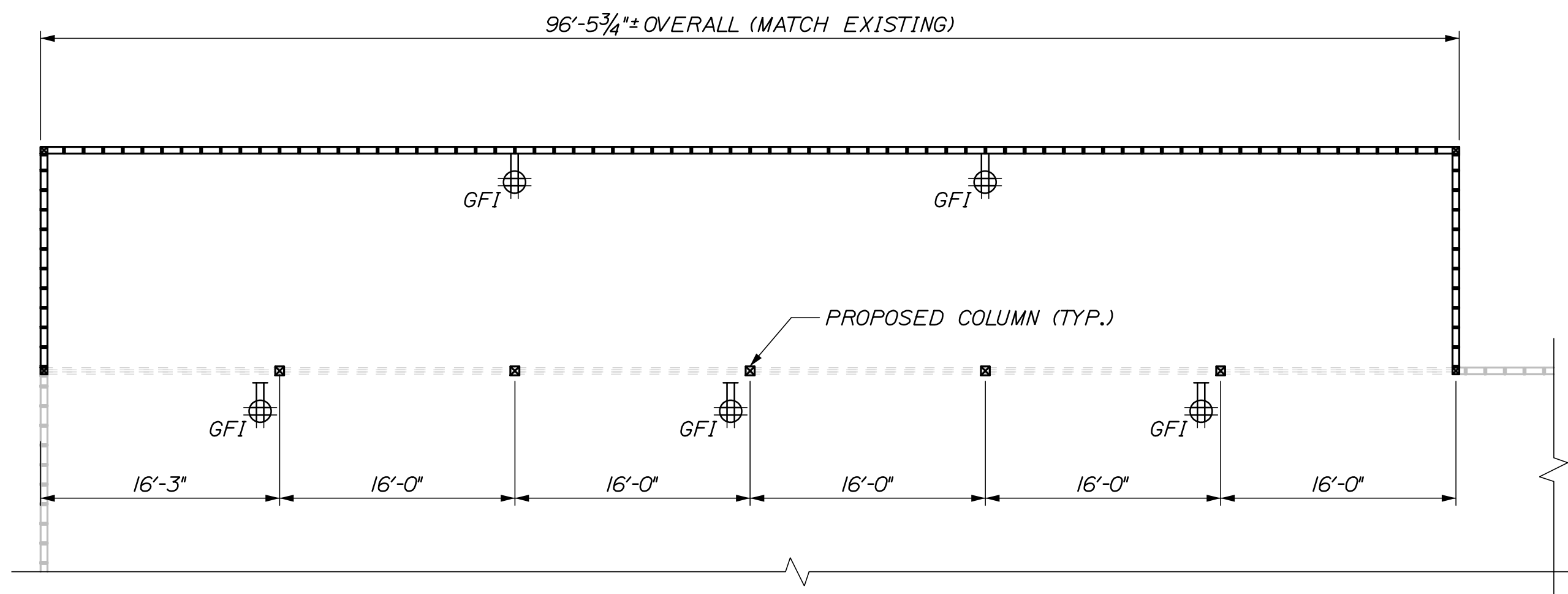
Date: 12/19/2018



PROPOSED ELECTRICAL PLAN VIEW - CROSBY #2
SCALE: N.T.S.



PROPOSED ELECTRICAL PLAN VIEW - CROSBY #1
SCALE: N.T.S.



PROPOSED ELECTRICAL PLAN VIEW - CROSBY #3
SCALE: N.T.S.

ELECTRICAL SYMBOLS:
NOT TO SCALE

SYMBOL	DESCRIPTION
	125V, 20A, QUAD GROUND FAULT RECEPTACLE

- ELECTRICAL NOTES:**
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Filename: 058_Electrical Plans_2.dgn

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No.	Revision	By	Date
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HNTB			
CONSULTANT PROJECT MANAGER: BRUCE MUNGER, PE			
By	Date	By	Date
Designed	BRG 11\17	Checked	RBM 11\17
Drawn	ERB 11\17	In Charge of	RAL 11\17

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MTA PROJECT MANAGER: BRIAN TADDEO, PE

MAINTENANCE GARAGE EXTENSIONS

ELECTRICAL PLANS II

SHEET NUMBER: E2

CONTRACT: 2018.23

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