CSARCH

Addendum No. 3

Date: 05-13-2024
Project Name: NECSD – New CTE Building
CSArch Project No. 108-2303
SED Control No. 44-16-00-01-0-053-001

This Addendum No. 3 forms part of the Contract Documents and modifies the original bidding documents dated April 15, 2024. Addendum No. 3 consists of 2 pages, 4 specification sections, and 21 drawings.

REGISTRATION EXPIRATION DATE: 12/31/2026
Architect's Seal

GENERAL INFORMATION

1. RFI Log: RFI questions and answers are included as an attachment to this addendum.

REVISIONS TO THE PROJECT MANUAL

1. **ADD** specification 083326 Overhead Coiling Grilles, attached.
2. **DELETE** specification section 096500. **ADD** revised specification 069500 Resilient Flooring in its entirety, attached.
3. **DELETE** specification section 125713. **ADD** revised specification 125713 Welding Equipment in its entirety, attached.
4. **DELETE** specification section 283100. **ADD** revised specification 283100 Fire Detection and Alarm in its entirety, attached.

REVISIONS TO THE CONTRACT DRAWINGS

1. **DELETE** drawing C141. **ADD** revised drawing C141, attached.
2. **DELETE** drawing C142. **ADD** revised drawing C142, attached.
3. **DELETE** drawing C150. **ADD** revised drawing C150, attached.
4. **DELETE** drawing C151. **ADD** revised drawing C151, attached.
5. **DELETE** drawing C230. **ADD** revised drawing C230, attached.
6. **DELETE** drawing A201. **ADD** revised drawing A201, attached.
7. **DELETE** drawing A202. **ADD** revised drawing A202, attached.
8. **DELETE** drawing A203. **ADD** revised drawing A203, attached.
9. **DELETE** drawing A204. **ADD** revised drawing A204, attached.
10. **DELETE** drawing A205. **ADD** revised drawing A205, attached.
11. **DELETE** drawing A504. **ADD** revised drawing A504, attached.

12. **DELETE** drawing A604. **ADD** revised drawing A604, attached.
13. **DELETE** drawing A611. **ADD** revised drawing A611, attached.
14. **DELETE** drawing A613. **ADD** revised drawing A613, attached.
15. **DELETE** drawing A615. **ADD** revised drawing A615, attached.
16. **DELETE** drawing A902. **ADD** revised drawing A902, attached.
17. **DELETE** drawing AF002. **ADD** revised drawing AF002, attached.
18. **DELETE** drawing AF121. **ADD** revised drawing AF121, attached.
19. **DELETE** drawing P111. **ADD** revised drawing P111, attached.
20. **DELETE** drawing P113. **ADD** revised drawing P113, attached.
21. **DELETE** drawing P123. **ADD** revised drawing P123, attached.

END OF ADDENDUM NO. 2

12	A	Casework	Please advise if millwork in office 100C, D, F, H storage 100K, office 129A (Dr. A606, A620) should be included, since no elevations / details shown.	4/30/2024	Worth Construction Co., Inc.	As per "GENERAL NOTE #6: ALL FURNITURE SHOWN AS HALFTONE IS NOT IN CONTRACT." What is shown in office 100C, D, F, H, 100K storage, and office 129A is furniture and should **NOT** be included in your bid.	No			
13	A	Casework	Please identify classrooms which receive Manufactured Wood Casework 12 32 00. Drawings are not clear which casework is div. 06 and which is div. 12. Please clarify.	4/30/2024	Worth Construction Co., Inc.	Section 064100 is for specialty fabricated cabinet units as detailed on A651 & A652. Section 123200 is for standard casework tagged with the casework tag as indicated within the "CASEWORK NOTES" on drawings A601 thru A635.	No			
14	AF	Finish Drawings	First floor finish plans dr. AF112 & AF113 shown heavy stipes at the multiple locations. Please explain and provide requirements for that.	4/30/2024	Worth Construction Co., Inc.	Provided as part of addendum #2	Yes	AF112, AF113		Add #2
15	P	Oil Separator / Grease Interceptor	As per drawing P-301 please provide sizes for oil separator and grease interceptor.	4/30/2024	Worth Construction Co., Inc.	Provided as part of addendum #2	Yes	P301		Add #2
16	P	Lavatories	As per schedule on drawing P-001, LV-a, b &c schedule is 1, 3 & 4 stations. Written spec show 1, 2 & 3 stations. Please advise.	4/30/2024	Worth Construction Co., Inc.	Provided as Part of addendum #2	Yes	P001	224000	Add #2
17	G	3d Model	Is there a 3D model of this building available?	5/1/2024	Rizzo Companies	There is a 3d model, but it is **NOT** part of the bidding documents. The model can be shared with the contractor once the contract is awarded.	No			
18	G	Instructions to Bidders	Section 00 21 13 "Instructions to Bidders" page 9 - 4.3/D reads "Bids shall be submitted in duplicate". Section 00 11 16 "Advertisements for Bids" page 1 reads "One copy of sealed bids…." and "One copy of bid in PDF format…". Please clarify if the sealed bid shall include two (2) hard copies of the bid submission, in addition to a PDF copy of the bid emailed the next day.	5/1/2024	EW Howell Construction Group	What is outlined in the Advertisement for Bids is correct. Revision to the Instruction to Bidders has been provided as part of addendum #2.	Yes		002113	Add #2
19	G	Instructions to Bidders	Section 00 21 13 "Instructions to Bidders" pages 9-10 - 4.3/D lists a series of documents for bid submissions to be considered a complete bid. This list differs from the list provided on the Addendum #1 Bid Form GC-01, page 3. Please clarify which list shall be followed for submitting a complete bid.	5/1/2024	EW Howell Construction Group	Labor Rates will not be required at bid submission. Spec. Section 002113 Instruction to Bidders Sub paragraph 4.3 Item D.3 has been updated to reflect. This requirement has been removed from Spec. Section 002113 Instruction to Bidders Sub paragraph 4.3 Item D.3. Refer to addendum #2 attachment for more information. If contractor is deemed to be the lowest apparent bidder, labor rate sheets will be required per sub paragraph 6.2 item A.2 within (3) calendar days following the bid opening time.	Yes		002113	Add #2
20	G	MWBE	V1 Specifications provided with the bid documents does not identify MWBE Requirements and/or MWBE Participation Goals for the project. Please advise if any MWBE Participation Goals have been set for this project.	5/1/2024	EW Howell Construction Group	There are no MWBE goals for this project. The disclosure of local and MWBE subcontractors and suppliers by the General Contractor with their estimated participation of the contract or purchase order value as a percent of the bid amount is requested. Local, minority and female (LMF) participation is a part of the PLA agreement. Please refer to that agreement and any questions related to the agreement, the pre-apprenticeship or apprenticeship programs and LMF participation to the Hudson Valley Building Trades Council.	No			

6	A	Wood Athletic Flooring	Attached please find Action Floor Systems Anchor Flex DIN-PUR floor system submitted for consideration as an equal to Robbins Bio Channel Star as covered under Section 096566 - Wood Athletic Flooring Anchor Flex DIN-PUR system uses 6 mil polyethylene vapor barrier, factory fabricated 3/4" plywood sub-floor system with 5/8" continuous foam resilient layer and 25/32" x 2 1/4" 1st grade ER (expansion ridge) MFMA - maple strip flooring. Specification, cut sheet, system data sheet, MFMA PUR and DIN certification and substitution request form attached. Thank you for your consideration in this substitution request.	4/30/2024	Action Floor Systems	As per Spec Section 012519- Equivalents, article 1.2, E and G; Requests for Architect approval of proposed equivalents prior to the bid date will only be reviewed if the request is submitted directly by the contractor submitting a bid.	No			
7	G	Instructions to Bidders	Instructions to bidders indicate Labor Rates to be submitted with bid. However the actual Bid Form does not list Labor Rates as a required attachment. Please clarify if the complete prevailing and union labor rates schedules are required to be submitted in duplicate with the bid.	4/30/2024	Worth Construction Co., Inc.	Labor Rates will not be required at bid submission. Spec. Section 002113 Instruction to Bidders Sub paragraph 4.3 Item D.3 has been updated to reflect. This requirement has been removed from Spec. Section 002113 Instruction to Bidders Sub paragraph 4.3 Item D.3. Refer to addendum #2 attachment for more information. If contractor is deemed to be the lowest apparent bidder, labor rate sheets will be required per sub paragraph 6.2 item A.2 within (3) calendar days following the bid opening time.	Yes		002113	Add #2
8	G	Instructions to Bidders	Instructions to bidders indicate the bids shall be submitted in duplicate. The Advertisement for Bids indicates a single copy submitted by bid time with one copy emailed no later than the next day. Please clarify.	4/30/2024	Worth Construction Co., Inc.	What is outlined in the Advertisement for Bids is correct. Revision to the Instruction to Bidders has been provided as part of addendum #2.	Yes		002113	Add #2
9	C	Sheet Error	Drawing C180 pdf file does not print correctly. Please provide another file.	4/30/2024	Worth Construction Co., Inc.	Provided as part of addendum #2	Yes	C180		Add #2
10	A	Equipment List	The equipment list is understood but incomplete. It is fine for equipment positioning and electrical requirements, but there is specific information missing that is required for an accurate quote. There are accessories for the brake lathe and the wheel balancers that aren't included on the plans but are typically required to be included in the price quote. For example, the wheel alignment system, described on the plan as "head unit", HE421, is incomplete. There are several configurations available for a wheel alignment system. HE421 just describes the measuring sensor type, but does not include the console which houses the PC, monitor, printer, etc. There are options for the wheel alignment lift, RX12 that might be beneficial in a student learning environment but are not indicated. Please review the contractor required equipment lists and clarify which accessories should be included in the bid.	4/30/2024	Worth Construction Co., Inc.	Provided as part of addendum #3.	Yes	A604, A613, A615		Add #3
11	A	Door Hardware	Door Schedule Dr. A904 door #305A, 305B should be “acoustical with STC rating: 6.1 hardware 48”. However, specs for hardware 08 71 00 stated Set:48 by MFG. Since there is variety of hardware, please be more specific what Set:48 should be.	4/30/2024	Worth Construction Co., Inc.	Provided as part of addendum #2.	Yes		083473, 084700	Add #2

12	A	Casework	Please advise if millwork in office 100C, D, F, H storage 100K, office 129A (Dr. A606, A620) should be included, since no elevations / details shown.	4/30/2024	Worth Construction Co., Inc.	As per "GENERAL NOTE #6: ALL FURNITURE SHOWN AS HALFTONE IS NOT IN CONTRACT." What is shown in office 100C, D, F, H, 100K storage, and office 129A is furniture and should **NOT** be included in your bid.	No			
13	A	Casework	Please identify classrooms which receive Manufactured Wood Casework 12 32 00. Drawings are not clear which casework is div. 06 and which is div. 12. Please clarify.	4/30/2024	Worth Construction Co., Inc.	Section 064100 is for specialty fabricated cabinet units as detailed on A651 & A652. Section 123200 is for standard casework tagged with the casework tag as indicated within the "CASEWORK NOTES" on drawings A601 thru A635.	No			
14	AF	Finish Drawings	First floor finish plans dr. AF112 & AF113 shown heavy stipes at the multiple locations. Please explain and provide requirements for that.	4/30/2024	Worth Construction Co., Inc.	Provided as part of addendum #2	Yes	AF112, AF113		Add #2
15	P	Oil Separator / Grease Interceptor	As per drawing P-301 please provide sizes for oil separator and grease interceptor.	4/30/2024	Worth Construction Co., Inc.	Provided as part of addendum #2	Yes	P301		Add #2
16	P	Lavatories	As per schedule on drawing P-001, LV-a, b &c schedule is 1, 3 & 4 stations. Written spec show 1, 2 & 3 stations. Please advise.	4/30/2024	Worth Construction Co., Inc.	Provided as Part of addendum #2	Yes	P001	224000	Add #2
17	G	3d Model	Is there a 3D model of this building available?	5/1/2024	Rizzo Companies	There is a 3d model, but it is **NOT** part of the bidding documents. The model can be shared with the contractor once the contract is awarded.	No			
18	G	Instructions to Bidders	Section 00 21 13 "Instructions to Bidders" page 9 - 4.3/D reads "Bids shall be submitted in duplicate". Section 00 11 16 "Advertisements for Bids" page 1 reads "One copy of sealed bids…." and "One copy of bid in PDF format…". Please clarify if the sealed bid shall include two (2) hard copies of the bid submission, in addition to a PDF copy of the bid emailed the next day.	5/1/2024	EW Howell Construction Group	What is outlined in the Advertisement for Bids is correct. Revision to the Instruction to Bidders has been provided as part of addendum #2.	Yes		002113	Add #2
19	G	Instructions to Bidders	Section 00 21 13 "Instructions to Bidders" pages 9-10 - 4.3/D lists a series of documents for bid submissions to be considered a complete bid. This list differs from the list provided on the Addendum #1 Bid Form GC-01, page 3. Please clarify which list shall be followed for submitting a complete bid.	5/1/2024	EW Howell Construction Group	Labor Rates will not be required at bid submission. Spec. Section 002113 Instruction to Bidders Sub paragraph 4.3 Item D.3 has been updated to reflect. This requirement has been removed from Spec. Section 002113 Instruction to Bidders Sub paragraph 4.3 Item D.3. Refer to addendum #2 attachment for more information. If contractor is deemed to be the lowest apparent bidder, labor rate sheets will be required per sub paragraph 6.2 item A.2 within (3) calendar days following the bid opening time.	Yes		002113	Add #2
20	G	MWBE	V1 Specifications provided with the bid documents does not identify MWBE Requirements and/or MWBE Participation Goals for the project. Please advise if any MWBE Participation Goals have been set for this project.	5/1/2024	EW Howell Construction Group	There are no MWBE goals for this project. The disclosure of local and MWBE subcontractors and suppliers by the General Contractor with their estimated participation of the contract or purchase order value as a percent of the bid amount is requested. Local, minority and female (LMF) participation is a part of the PLA agreement. Please refer to that agreement and any questions related to the agreement, the pre-apprenticeship or apprenticeship programs and LMF participation to the Hudson Valley Building Trades Council.	No			

21	G	CSArch Plan Room	CS Arch Plan Room website used for Bid documents & Addenda identifies a planholder list, where one name/contact is listed under the company as a main contact. This contact receives email notification of any new posted addenda. Please advise if it's possible to have another contact added to this list, so that they may receive email notification of any new posted addenda.	5/1/2024	EW Howell Construction Group	Please reach out to Vincent@revplans.com for support.	No			
22	G	Insurance Requirements	V1 Specifications do not call out a set of specific insurance requirements for the project. Please provide a document for insurance requirements if any are set for this project.	5/1/2024	EW Howell Construction Group	Refer to AIA A232 General Conditions, Article 11 for the specific insurance requirements for this project.	No			
23	A	Wood Athletic Flooring	Attached please find the substitution request and product data for your consideration of approval for the above project. Aacer Channel VLP HC flooring by Aacer Sports Flooring is being submitted as an equal to Bio-Channel Star flooring by Robbins Sports Surfaces. The Aacer Channel VLP HC has the same component configuration as the products specified. Approval of Aacers Floor System will not affect the design, schedule, or other trades and local installation and service are available. Please visit www.aacerflooring.com and learn more about our maple floor systems. We appreciate your time and consideration, please feel free to contact me if you have questions or require additional information.	5/1/2024	Aacer Sports Flooring	As per Spec Section 012519- Equivalents, article 1.2, E and G; Requests for Architect approval of proposed equivalents prior to the bid date will only be reviewed if the request is submitted directly by the contractor submitting a bid.	No			
24	M	HVAC Controls	SPECIFICATION 012100-1.8-"B.1A" STATES HVAC CONTROLS WILL BE PROVIDED BY OWNER UNDER A SEPARATE CONTRACT AND THE MC-02 CONTRACT IS TO PROVIDE STAND ALONE CONTROLS FOR MECHANICAL SYSTEM. PLEASE ADVISE IF THE OWNER HAS ASSIGNED A HVAC BAS CONTRACTOR AND IF THIS INFORMATION IS AVAILABLE, WE WOULD LIKE TO CONTACT THEM FOR COORDINATION AND RECEIVING A PROPOSAL FOR STAND-ALONE CONTROLS.	5/1/2024	Joseph Lombardo Plumbing, Heating & Cooling, Inc.	At this time it is the owners intent to use Day Automation for the HVAC controls.	No			
25	A/M	Welding Booth / Extraction Arms	The booth description (A040, A040A) in the Equipment Schedule on sheet CTE A615 indicates the power is 120V/1-ph which would imply one or both of those options should be included. However, I don't think they are listed anywhere. Also, I cannot find reference to the extraction arms. Below indicates the airflow (per arm) but no details. Do you know on which sheet if any they are identified?	5/3/2024	The Lincoln Electric Company	Refer to spec section 125713 – Welding Equipment in Volume 2 of the project manual. Revised as part of addendum #3.	Yes		125713	Add #3
26	A	Ceramic Tile	Finish Plan Dr. AF113 shows CWT wall tile at Locker Rooms. However elevations Dr. A611 shows no CWT. Please clarify.	5/6/2024	Worth Construction Co., Inc.	Revised as part of addendum #3	Yes	A611		Add #3
27	A	Security Grill Door	Door Schedule Dr. A902 shown Security Grill OH4 for Cafeteria. Please provide Basis of design and model #.	5/6/2024	Worth Construction Co., Inc.	Provided as part of addendum #3	Yes		083326	Add #3
28	M	Duct Liners	The liner spec p220, see below, indicates elastomeric liner in every duct type. Can you send an RFI to confirm this?	5/6/2024	Armistead Mechanical, Inc.	Lined Ducts are indicated on the drawings. Refer to Symbols on MG000.	No			
29	M	Fume Extraction Arms	Do you know what the lengths and diameters of the fume extraction arms is? I'm assuming 8' length and 8" diameter but my estimating department wanted to be sure.	5/6/2024	ADE Group	Revised as part of addendum #3.	Yes		125713	Add #3
30	M	Wood Dust Collector	For the wood dust collector, its only one unit, right (DC-A-1)?	5/6/2024	ADE Group	Yes, There is only one wood dust collector unit.	No			

31	G	Contracts	Contracts: As per Addendum 1 We have noticed that all trade bid forms are deleted and revised GC bid form is added. However, through Revplans its still showing 5 prime contracts . Kindly confirm whether it's a single Prime contract or Multiple Prime contracts?	5/8/2024	ACS Systems Associates, Inc.	As per addendum #1, tt is a Single Prime Contract. Rev plans has updated their website.	No			
32	AF	Fluid Applied Flooring	Section 096700: Are alternate products accepted for this? Stonhard is proprietary	5/8/2024	Rizzo Companies	Product equivalents will be accepted.	No			
33	A	Coiling Doors	On the door schedule for 1st floor, there are (4) OH2 doors which are insulated coiling doors. 3 of the 4 doors have remark #2 and #8 which are "Overhead door" and "Standard Lift track" which doesn't apply to coiling doors. The 4th OH2 door on the schedule has remarks #2 and #9 which are "Overhead door" and "coiling door, motor operated" which does apply to coiling doors. I want to confirm that there are (4) OH2 doors on this project. It seems that there is only (1) coiling door and the other 3 should be sectional doors, and have been mis-labeled. Please advise	5/9/2024	Rizzo Companies	Revised as part of addendum #3.	Yes	A902		Add #3
34	A	Security Grill Door	Will an upcoming addendum contain a specification for the Coiling Security Grille?	5/9/2024	Rizzo Companies	Provided as part of addendum #3.	Yes		083326	Add #3
35	AF	Division 9	LVT-1 Adhesive; V-88 Adhesive by Mannington, V-95 Adhesive or XpressStep Spray Adhesive by Mannington for this bid scope ?	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	Bid as per section 096500-5, part 2.5.B.	No			
36	AF	Division 9	LVT-1, No diagonal layout installation is required for this bid scope, please confirm.	5/9/2024	Rizzo Companies EW Howell Construction Group	No diagonal layout required.	No			
37	AF	Division 9	See Detail 2 on Drawing CTE A504.00; are Rubber Stair Risers required for this bid scope, please advise.	5/9/2024	Rizzo Companies EW Howell Construction Group	Provided as part of addendum #3.	Yes	A504, AF002	096500	Add #3
38	AF	Division 9	RST-1 Rubber Stair Treads; Please confirm optional Safety Inserts at nose of tread(s) are not required for this bid scope ?	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	Provided as part of addendum #3.	Yes		096500	Add #3
39	AF	Division 9	RT-1 Rubber Tile for intermediate landings; Marbleized is not available in 24" x 24" and not available in 3.5mm thickness, please advise.	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	Revised as part of addendum #3.	Yes	AF002	096500	Add #3

40	AF	Division 9	Stair Stringers Section 096500-4 para 2.3B are required for this bid scope, if yes please provide a detail ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Revised as part of addendum #3.	Yes		096500	Add #3
41	AF	Division 9	Sheet Vinyl Base HMB-1 Base is 4" High ?	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	Revised as part of addendum #3.	Yes	AF002		Add #3
42	AF	Division 9	Please provide a detail of HMB-1 Base; Cap Strip, Fillet Strip, Floor heat weld location ?	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	As per manufacturers standard details.	No			
43	AF	Division 9	Vent Cove Base 4" in section 096466-3 para 2.5A and RB-2 is 6" on Drawing AF002, please advise 4" is required for this bid scope.	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	Revised as part of addendum #3.	Yes	AF002		Add #3
44	AF	Division 9	Polished Concrete Section 033543 installed complete procedure before all fixed millwork or casework ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Polished concrete install to be complete prior to millwork and casework installation	No			
45	AF	Division 9	RST-1 at Landings - Detail 3 on A504 Tread Nosing to Polished Concrete; trip hazard or will concrete be recessed to accept tread nose ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Revised as part of addendum #3.	Yes	A504		Add #3
46	AF	Division 9	LVT-1 installed wall to wall and before all fixed millwork or casework ?	5/9/204	Rizzo Companies EW Howell Construction Group	Millwork to be installed prior to LVT flooring	No			
47	AF	Division 9	HMB Sheet Vinyl installed wall to wall and before all fixed millwork or casework ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Millwork to be installed prior to HMB flooring	No			
48	AF	Division 9	No HMB-1 on walls behind fixed casework or millwork at perimeter of rooms is required for this bid scope ?	5/9/2024	Rizzo Companies EW Howell Construction Group	No HMB-1 is required behind casework or millwork	No			

49	AF	Division 9	No RB-1 on walls behind fixed casework or millwork at perimeter of rooms is required for this bid scope ?	5/9/2024	Rizzo Companies EW Howell Construction Group	No RB-1 is required behind casework or millwork	No			
50	AF	Division 9	Drawing A901 Detail 7, HMB sheet vinyl to Polished Concrete; A Saddle Threshold or a Vinyl Transition Strip ?	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	Revised as part of addendum #3.	Yes	AF111		Add #3
51	AF	Division 9	Steps to electrical room from Roof, please confirm no Rubber Stair Treads are required for this bid scope ?	5/9/2024	Rizzo Companies EW Howell Construction Group	No, refer to drawing 11/A354.	No			
52	AF	Division 9	SDT-1; Grounding location and Ohm meter testing are to be provided by electrical contractor for this bid scope, please confirm.	5/9/2024	Rizzo Companies Worth Construction Co., Inc.	As per addendum #1, single prime contract.	No			
53	AF	Division 9	SDT-1; No (No Wax Logo tiles) are required for this bid scope, please confirm ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Bid as per specification 096500.	No			
54	AF	Division 9	Corridors 1st - 3rd floor wall base; Elevation Drawings A631-635, Details show SWB, Which walls get RB-1 and which get MT-1 ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Revised as part of addendum #3.	Yes	AF002		Add #3
55	AF	Division 9	Limits of MT-1 Metal Base at Vending 118A on 1st floor and same for Cafeteria 116 ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Revised as part of addendum #3.	Yes	AF002		Add #3
56	AF	Division 9	Limits of MT-1 Metal Base in Cafeteria 116 ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Revised as part of addendum #3.	Yes	AF002		Add #3
57	AF	Division 9	Section 033000-15 para 3.7D.3 Other Surfaces - Gym Wood system and Polished Concrete are Other Surfaces, please advise.	5/9/2024	Rizzo Companies EW Howell Construction Group	Yes.	No			
58	AF	Division 9	Section 096500-6 para 3.2H Feature Strips and LOGOS are not required for this bid scope, please confirm.	5/9/2024	Rizzo Companies EW Howell Construction Group	Revised as part of addendum #3.	Yes		096500	Add #3

59	AF	Division 9	HMB Sheet Vinyl to HMB Sheet Vinyl at door threshold, Doors 202A, 202C, 202D; Heat weld seam only, please advise.	5/9/2024	Rizzo Companies Worth Construction Co., Inc. EW Howell Construction Group	Revised as part of addendum #3.	No	AF121		Add #3
60	AF	Division 9	Polished Concrete Section 033543-3 para 1.6B, Mock-up 50 sf. Is 50 SF required for each; PCON-1, PCON-2 and PCON-3, please advise.	5/9/2024	Rizzo Companies EW Howell Construction Group	As indicated per specification 033543.	No			
61	AF	Division 9	Many Abbreviations on Drawings AF001 do not apply to this scope, please confirm. WOM, BBT, CPT, RAF, STF, VCT, please advise.	5/9/2024	Rizzo Companies EW Howell Construction Group	Abbreviations listed may not apply to scope of work. Refer to the abbreviations indicated in the finish schedule and finish tag.	No			
62	AF	Division 9	Drawing AF133 Detail 1 description; THURD might be THIRD ?	5/9/2024	Rizzo Companies EW Howell Construction Group	Spelling error; should read THIRD.	No			
63	M	BMS	I was looking at the Newburgh School bid in section 250923 but there are no control vendors listed. Part 2 – Products has conduit and fitting in this section. I was wondering who the acceptable BMS manufacturers would be or did the school standardize on a control vendor.	5/9/2024	Stark Tech	Please refer to Specification 011200 GC Summary issued as part of addendum #2 which provides detailed language about BMS and Controls being procured by owner through a State Contract. The district has identified that they prefer to use Day Automation who is currently pricing the project.	No			
64	A	Cast Stone	Please clarify cast stone profiles locations. For instance: Dr.A201 /4 elevation shown second floor cast stone profile CS3 & CS4 Building Section dr. A307/3 shows CS1. Elevation dr. A201/2 shows CS3 building section shows CS2. And there are more discrepancies.	5/10/2024	Worth Construction Co., Inc.	Revised as part of addendum #3.	Yes	A201, A202, A203, A204, A205		Add #3

SECTION 083326 - OVERHEAD COILING GRILLES ***ADDENDUM 3***

PART 1 GENERAL

1.1 *SECTION INCLUDES*

A. *Overhead coiling metal grilles and operating hardware; electrically operated.*

B. *Wiring from electric circuit disconnect to operator and to control station.*

1.2 *REFERENCE STANDARDS*

A. *ASTM A123/A123M - Standard Specification for Zinc (Hot-Dip Galvanized) Coatings on Iron and Steel Products; 2017.*

B. *ASTM A653/A653M - Standard Specification for Steel Sheet, Zinc-Coated (Galvanized) or Zinc-Iron Alloy-Coated (Galvannealed) by the Hot-Dip Process; 2023.*

C. *ITS (DIR) - Directory of Listed Products; Current Edition.*

D. *NEMA 250 - Enclosures for Electrical Equipment (1000 Volts Maximum); 2020.*

E. *NEMA ICS 2 - Industrial Control and Systems Controllers, Contactors and Overload Relays Rated 600 Volts; 2008 (Reaffirmed 2020).*

F. *UL (DIR) - Online Certifications Directory; Current Edition.*

G. *UL 325 - Standard for Door, Drapery, Gate, Louver, and Window Operators and Systems; Current Edition, Including All Revisions.*

1.3 *SUBMITTALS*

A. *Product Data: Provide general construction component connections and details, and electrical equipment.*

B. *Shop Drawings: Indicate pertinent dimensioning, anchorage methods, hardware locations, and installation details.*

C. *Manufacturer's Installation Instructions: Indicate installation sequences and procedures, adjustment and alignment procedures.*

D. *Maintenance Data: Indicate lubrication requirements and frequency and periodic adjustments required.*

1.4 *QUALITY ASSURANCE*

A. *Manufacturer Qualifications: Company specializing in manufacturing the products specified in this section with minimum three years of documented experience.*

B. *Installer Qualifications: Company specializing in performing work of type specified and with at least three years documented experience.*

C. *Products Requiring Electrical Connection: Listed and classified by ITS (DIR), UL (DIR), or testing firm acceptable to authorities having jurisdiction as suitable for purpose specified.*

1.5 *WARRANTY*

A. *Manufacturer Warranty: Provide 2-year manufacturer warranty for roller shaft counterbalance assembly. Complete forms in Owner's name and register with manufacturer.*

PART 2 PRODUCTS

2.1 *MANUFACTURERS*

A. *Overhead Coiling Grilles:*
1. Overhead Door Corporation; Upward Coiling Security Grilles – Model 670: www.overheaddoor.com/#sle.

2.2 *GRILLES AND COMPONENTS*

A. *Grille: Aluminum; horizontal bar curtain, coiling on overhead counterbalanced shaft.*
1. *Finish: No. 4 - Brushed.*
2. *Mounting: Surface mounted.*

B. *Curtain: Round horizontal bars connected with vertical links.*
1. *Horizontal bars: 5/16 inch diameter.*
2. *Bar spacing: 2 inch on center.*
3. *Link spacing: 6 inch on center.*
4. *Bar Ends: Provide with nylon runners for quiet operation.*
5. *Bottom Bar: Back-to-back angles with tubular resilient cushion.*

C. *Guides: Extruded aluminum angles, of profile to retain grille in place with snap-on trim, mounting brackets of same metal.*

D. *Hood Enclosure and Trim: Sheet metal; completely covering operating mechanisms; internally reinforced to maintain rigidity and shape.*
1. *Material: Galvanized steel.*
2. *Finish: Factory painted, color as selected.*

E. *Lock Hardware:*
1. *For motor operated units, additional lock or latching mechanisms are not required.*

F. *Roller Shaft Counterbalance: Steel pipe and helical steel spring system, capable of producing torque sufficient to ensure smooth operation of curtain from any position and capable of holding position at mid-travel; with adjustable spring tension; requiring 25 lb nominal force to operate.*

2.3 *MATERIALS*

A. *Aluminum: ASTM B221 (ASTM B221M).*

B. *Galvanized Steel Bars: Galvanized to minimum coating thickness grade in accordance with ASTM A123/A123M.*

C. *Galvanized Steel Sheet: ASTM A653/A653M, galvanized to minimum G90/Z275 coating.*

2.4 *ELECTRIC OPERATION*

A. *Operator, Controls, Actuators, and Safeties: Comply with UL 325; provide products listed by ITS (DIR), UL (DIR), or testing agency acceptable to authorities having jurisdiction.*

B. *Electric Operators:*
1. *Mounting: Side mounted.*
2. *Motor Rating: 1/3 hp; continuous duty.*
3. *Motor Voltage: 120 volts, single phase, 60 Hz.*
4. *Motor Controller: NEMA ICS 2, full voltage, reversing magnetic motor starter.*
5. *Controller Enclosure: NEMA 250 Type 1.*
6. *Opening Speed: 12 inches per second.*
7. *Brake: Adjustable friction clutch type, activated by motor controller.*
8. *Manual override in case of power failure.*

C. *Control Station: Provide standard three button (Open-Close-Stop) momentary-contact control device for each operator complying with UL 325.*
1. *24 volt circuit.*
2. *Surface mounted, at interior door jamb.*
3. *Entrapment Protection Devices: Provide sensing devices and safety mechanisms complying with UL 325.*
a. *Primary Device: Provide electric sensing edge as required with momentary-contact control device.*

D. *Safety Edge: Located at bottom of coiling grill, full width, electro-mechanical sensitized type, wired to stop and reverse grill direction upon striking object, hollow neoprene covered.*

PART 3 EXECUTION

3.1 *EXAMINATION*

A. *Verify that adjacent construction is suitable for door installation.*

B. *Verify that electrical services have been installed and are accessible.*

C. *Verify that door opening is plumb, header is level, and dimensions are correct.*

D. *Notify Architect of any unacceptable conditions or varying dimensions.*

E. *Commencement of installation indicates acceptance of substrate and door opening conditions.*

3.2 *INSTALLATION*

A. *Install grille unit assembly in accordance with manufacturer's instructions.*

B. *Use anchorage devices to securely fasten assembly to wall construction and building framing without distortion or stress.*

C. *Securely and rigidly brace components suspended from structure. Secure guides to structural members only.*

D. *Fit and align assembly including hardware; level and plumb, to provide smooth operation.*

E. *Coordinate installation of electrical service.*

F. *Complete wiring from disconnect to unit components.*

G. *Install enclosure and perimeter trim.*

3.3 *TOLERANCES*

A. *Maintain dimensional tolerances and alignment with adjacent work.*

B. *Maximum Variation From Plumb: 1/16 inch.*

C. *Maximum Variation From Level: 1/16 inch.*

D. *Longitudinal or Diagonal Warp: Plus or minus 1/8 inch per 10 ft straight edge.*

3.4 *ADJUSTING*

A. *Adjust grille, hardware and operating assemblies for smooth and noiseless operation.*

3.5 *CLEANING*

A. *Clean grille and components.*

B. *Remove labels and visible markings.*

END OF SECTION

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SECTION 096500 - RESILIENT FLOORING **BID ADDENDUM 3**

PART 1 GENERAL

1.1 SECTION INCLUDES

A. Resilient sheet flooring.

B. Resilient tile flooring.

C. Static control resilient tile flooring.

D. Resilient base.

E. Resilient stair accessories.

F. Installation accessories.

1.2 REFERENCE STANDARDS

A. ASTM E648 - Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source; 2019a, with Editorial Revision (2020).

B. ASTM F1066 - Standard Specification for Vinyl Composition Floor Tile; 2004 (Reapproved 2018).

C. ASTM F1344 - Standard Specification for Rubber Floor Tile; 2021a.

D. ASTM F1700 - Standard Specification for Solid Vinyl Floor Tile; 2020.

E. ASTM F1861 - Standard Specification for Resilient Wall Base; 2021.

F. ASTM F1913 - Standard Specification for Vinyl Sheet Floor Covering Without Backing; 2019.

G. NFPA 253 - Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source; 2023.

1.3 SUBMITTALS

A. Product Data: Provide data on specified products, describing physical and performance characteristics; including sizes, patterns and colors available; and installation instructions.

B. Shop Drawings: Indicate floor patterns.

C. Selection Samples: Submit manufacturer's complete set of color samples for Architect's initial selection.

D. Verification Samples: Full-size units of each color and pattern of floor tile required.

E. Concrete Subfloor Test Report: Submit a copy of the moisture and alkalinity (pH) test reports.

F. Installer's Qualification Statement.

G. Maintenance Data: Include maintenance procedures, recommended maintenance materials, and suggested schedule for cleaning, stripping, and re-waxing.

H. Maintenance Materials: Furnish the following for Owner's use in maintenance of project.
   1. Extra Flooring Material: 1 carton of each type and color.
   2. Extra Wall Base: 1 carton of each type and color.
   3. Extra Stair Materials: Quantity equivalent to 5 percent of each type and color.

1.4 QUALITY ASSURANCE

A. Manufacturer Qualifications: Company specializing in manufacturing specified flooring with minimum three years documented experience.

B. Installer Qualifications: Company specializing in installing specified flooring with minimum three years documented experience.

1.5 DELIVERY, STORAGE, AND HANDLING

A. Upon receipt, immediately remove any shrink-wrap and check materials for damage and the correct style, color, quantity and run numbers.

B. Store all materials off of the floor in an acclimatized, weather-tight space.

C. Maintain temperature in storage area between 55 degrees F and 90 degrees F.

D. Do not double stack pallets.

1.6 FIELD CONDITIONS

A. Store materials for not less than 48 hours prior to installation in area of installation at a temperature of 70 degrees F to achieve temperature stability. Thereafter, maintain conditions above 55 degrees F.

PART 2 PRODUCTS

2.1 SHEET FLOORING

A. Vinyl Sheet Flooring - Type HMO-1:
   1. Manufacturers:
      a. Armstrong Flooring; Natralis: www.armstrongflooring.com/#sle.
   2. Minimum Requirements: Comply with ASTM F1913.
   3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   4. Thickness: 0.080 inch nominal.
   5. Sheet Width: 72 inch minimum.
   6. Seams: Heat welded.
   7. Color: As indicated on drawings.

B. Welding Rod: Solid bead in material compatible with flooring, produced by flooring manufacturer for heat welding seams, and in color matching field color.

2.2 TILE FLOORING

A. Vinyl Tile - Type LVT-1: Luxury Vinyl Tile.
   1. Manufacturers:
      a. Mannington Commercial; Groove: www.manningtoncommercial.com#sle.
   2. Minimum Requirements: Comply with ASTM F1700, of Class corresponding to type specified.
   3. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
   4. Plank Tile Size: ___ by ___ inch.
   5. Color: As indicated on drawings.

B. Rubber Tile - RT-1: Homogeneous, color and pattern throughout thickness.
   1. Manufacturers:
      a. Roppe Corporation; Marbleized: www.roppe.com/#sle.
   2. Minimum Requirements: Comply with ASTM F1344, of Class corresponding to type specified.
   3. Size: ~~24~~ **20** by ~~24~~ **20** inch nominal.
   4. Total Thickness: ~~3.5~~ **3.2** mm.
   5. Texture: Hammered.
   6. Color: As indicated on drawings.

C. Static Control Tile - Type SDT-1: Homogeneous; color and pattern throughout thickness.
   1. Manufacturers:
      a. Armstrong Excelon SDT.
   2. Minimum Requirements: Vinyl composition tile complying with ASTM F1066, Class 2.
   3. Electrical Resistance:

a. Dissipative Tile: Resistance between 1.0 megohms and 1000 megohms as tested in accordance with ASTM F150.

4. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
5. Tile Size: 12 by 12 inch.
6. Total Thickness: 0.125 inch.
7. Color: As indicated on drawings.

2.3 STAIR COVERING

A. Stair Treads: Rubber; full width and depth of stair tread in one piece; tapered thickness.
1. Manufacturers:
a. **Roppe Corporation; Rubber Stair Treads: Marbleized Textured; www.roppe.com/#sle.**
2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
3. Nominal Thickness: 0.1875 inch.
4. Nosing: Square.
5. **Striping: 2 inch wide contrasting color Dark Gray strips.**
6. Color: As indicated on drawings.

B. **Stair Risers: Full height and width of tread in one piece, matching treads in material and color.**
1. **Thickness: 0.080 inch.**

~~B. Stair Stringers: Full height in one piece and in maximum available lengths, matching treads in material and color.~~
~~2. Nominal Thickness: 0.080 inch.~~

2.4 RESILIENT BASE

A. Resilient Base: ASTM F1861, Type TS rubber, vulcanized thermoset; style as scheduled.
1. Manufacturers:
a. RB-2: Johnsonite, a Tarkett Company; Vent Cove: www.johnsonite.com/#sle.
b. RB-1: Roppe Corporation; Pinnacle Cove Base: www.roppe.com/#sle.
2. Critical Radiant Flux (CRF): Minimum 0.45 watt per square centimeter, when tested in accordance with ASTM E648 or NFPA 253.
3. Height: 4 inch.
4. Thickness: 0.125 inch.
5. Finish: Satin.
6. Length: Roll.
7. Color: See materials legend .
8. Accessories: Premolded external corners and internal corners.

2.5 ACCESSORIES

A. Subfloor Filler: White premix latex; type recommended by adhesive material manufacturer.

B. Primers and Adhesives: Waterproof; types recommended by flooring manufacturer.

C. Moldings, Transition and Edge Strips: Same material as flooring.

D. Copper Grounding Strips: Type and size as recommended by static control flooring manufacturer.

E. Floor Polish for Static Control Flooring: Fluid-applied polish, intended to protect electrical properties of flooring, as recommended by static control flooring manufacturer.

F. Sealer and Wax: Provide protective, liquid floor-polish products recommended by floor tile manufaturer.

PART 3 EXECUTION

3.1 PREPARATION

A. Prepare floor substrates as recommended by flooring and adhesive manufacturers.

B. Remove subfloor ridges and bumps. Fill minor low spots, cracks, joints, holes, and other defects with subfloor filler to achieve smooth, flat, hard surface.

C. Prohibit traffic until filler is fully cured.

D. Clean substrate.

E. Apply primer as required to prevent "bleed-through" or interference with adhesion by substances that cannot be removed.

3.2 Installation - General

A. Starting installation constitutes acceptance of subfloor conditions.

B. Install in accordance with manufacturer's written instructions.

C. Adhesive-Applied Installation:
1. Spread only enough adhesive to permit installation of materials before initial set.
2. Place copper grounding strip in conductive adhesive and apply additional adhesive to top side of strip before installing static control flooring. Allow strip to extend beyond flooring in accordance with static control flooring manufacturer's instructions.
3. Fit joints and butt seams tightly.

4. Set flooring in place, press with heavy roller to attain full adhesion.

D. Where type of floor finish, pattern, or color are different on opposite sides of door, terminate flooring under centerline of door.

E. Install edge strips at unprotected or exposed edges, where flooring terminates, and where indicated.
   1. Resilient Strips: Attach to substrate using adhesive.

F. Scribe flooring to walls, columns, cabinets, floor outlets, and other appurtenances to produce tight joints.

G. At movable partitions, install flooring under partitions without interrupting floor pattern.

~~H. Install feature strips and logos where indicated.~~

3.3 Installation - Sheet Flooring

A. Lay flooring with joints and seams parallel to longer room dimensions, to produce minimum number of seams. Lay out seams to avoid widths less than 1/3 of roll width; match patterns at seams.

B. Seal seams by heat welding where indicated.

3.4 Installation - Tile Flooring

A. Mix tile from container to ensure shade variations are consistent when tile is placed, unless otherwise indicated in manufacturer's installation instructions.

B. Install plank tile with a random offset of at least 6 inches from adjacent rows.

3.5 Installation - Resilient Base

A. Fit joints tightly and make vertical. Maintain minimum dimension of 18 inches between joints.

B. Miter internal corners. At external corners, use premolded units. At exposed ends, use premolded units.

C. Install base on solid backing. Bond tightly to wall and floor surfaces.

3.6 Installation - Stair Coverings

A. Install stair coverings in one piece for full width and depth of tread.

B. Install stringers configured tightly to stair profile.

C. Adhere over entire surface. Fit accurately and securely.

3.7 CLEANING AND PROTECTION

A. Remove excess adhesive from floor, base, and wall surfaces without damage.

B. Clean in accordance with manufacturer's written instructions.

C. Floor Polish: Remove soil, adhesives, and blemishes from floor tile surface before applying liquid floor polish.
   1. Apply one coat.

3.8 PROTECTION

A. Prohibit traffic on resilient flooring for 48 hours after installation.

END OF SECTION

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SECTION 125713 - WELDING EQUIPMENT

PART 1 - GENERAL

1.1 RELATED DOCUMENTS

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

1.2 SUMMARY

A. Section includes:
   1. Welding Booths including accessories.
   2. Gas Tank storage accessories.
      a. Locations: Gas and Metal Stock Storage.

1.3 PREINSTALLATION MEETINGS

A. Preinstallation Conference: Conduct conference at Project site.

1.4 ACTION SUBMITTALS

A. Product Data: For each type of product.
   1. Include construction details, material descriptions, dimensions of individual components and profiles, and finishes.
   2. Include furnished specialties and accessories.

B. Shop Drawings:
   1. Include plans, elevations, sections.
   2. Include details of equipment assemblies. Indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.

C. Product Schedule: Use same designations indicated on Drawings.

1.5 INFORMATIONAL SUBMITTALS

A. Coordination Drawings: Drawn to scale, on which the following items are shown and coordinated with each other, using input from installers of the items involved:
   1. Ductwork and Electrical connections.

B. Sample Warranty: For manufacturer's warranty.

1.6 MAINTENANCE MATERIAL SUBMITTALS

A. Furnish extra materials that match products installed and that are packaged with protective covering for storage and identified with labels describing contents.
   1. Welding Booth Curtains: Two full size units.

B. Deliver to site and install after building is secure and temperature controlled.

1.7 WARRANTY

A. Manufacturer's Warranty: Manufacturer agrees to repair or replace components of that fail(s) in materials or workmanship within specified warranty period.
   1. Warranty Period: one year(s) from date of Substantial Completion.

PART 2 - PRODUCTS

A. Basis-of-Design Product: Subject to compliance with requirements, provide Lincoln Electric Company.

2.2 WELDING BOOTH AND ACCESSORIES

A. Basis-of-Design Product: Subject to compliance with requirements, provide Lincoln Electric Company; Welding Booth or equal.

B. Modular booths, 16 guage steel construction, 6ft x 6ft & 4ft x 6ft side-to-side units. All adjacent booths share dividing panel. Layout per drawings.

   1. Accessories:
      a. Steel Welding Table
         1. 1/4" thick steel top with mechanical tubing frame and legs. Each leg has provisions for lagging table to floor.
         2. Adjustable post and welding fixture
         3. Sizes: 47" (4 'wide booths), 58" (6' wide booths)
      b. Welding Booth Curtain Kit
         1. Overlapping red-orange strip curtains.
         2. Sizes: 50" W x 66" H (4' wide booths), 74" W x 66" H (6' wide booths)
      c. LED Light Kit
         1. LED Light Bars, including mounting hardware, connection cables and on/off switch. (120v / 1-ph)
      d. Booth Assist Alert System.
         1. Control Panel
         2. Light Stack. Green indicator = Booth Occupied, Amber Indicator = Student is Welding, Red Indicator = Student Needs Support
         3. Weld Sensing PCB
      e. **Telescoping Extraction Arms** ~~Wall Mounted Fume Extraction System~~
         1. **Telescopic extraction arm with counterweight mechanism and a rotatable hood with throttle valve to control airflow at the hood opening.** ~~Wall-mount base unit with MERV 16 filter, mechanized filter cleaning, Telescopic 5-8 ft. counter-weight fume extraction arm, 1 hp fan and manual start/stop control~~.

2. Sizes:
a) 8" dia. 4-6ft telescopic arm (4' wide welding booth locations), Model #K1655-15
b) 8" dia. 5-8ft telescopic arm (6' wide welding booth locations), Model # K1655-14
3. 8" Duct to Extraction Arm Connector, Model #K1657-5
4. Bracket to Mount Extraction Arm to Booth Header, Model #S23385-244

C. Provide all components necessary to complete the assembly and installation.

2.3 WELDING GAS TANK ACCESSORIES

A. Double Cylinder Brackets, steel, with chains, width 25 inches. Mount per drawings.

2.4 PERFORMANCE REQUIREMENTS

A. Surface-Burning Characteristics: Comply with ASTM E 84; testing by a qualified testing agency. Identify products with appropriate markings of applicable testing agency.
1. Flame-Spread Index: 25 or less.
2. Smoke-Developed Index: 450 or less.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine conditions, with Installer present, for compliance with requirements for installation tolerances and other conditions affecting performance of the Work.

B. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 INSTALLATION

A. Install per manufactures instructions.

3.3 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain units.

END OF SECTION 125713

SECTION 283100 – FIRE DETECTION AND ALARM

PART 1 - GENERAL

1.1 SUMMARY

A. Section includes:

1. Fire-alarm control panel (FACP).
2. Manual fire alarm pull stations.
3. System smoke detectors.
4. Carbon Monoxide detectors.
5. Heat detectors.
6. Notification appliances.
7. Fire Alarm Annunciator Panel (FAAP).
8. Addressable interface device.
9. Digital alarm communicator transmitter.
10. Network communications.
11. Device Guards.

1.2 DEFINITIONS

A. EMT: Electrical Metallic Tubing.

B. FACP: Fire Alarm Control Panel.

C. HLI: High Level Interface.

D. NICET: National Institute for Certification in Engineering Technologies.

E. PC: Personal computer.

1.3 SUBMITTALS

A. Product Data: For each type of product, including finished options and accessories.

1. Include construction details, material descriptions, dimensions, profiles, and finishes.
2. Include rated capacities, operating characteristics, and electrical characteristics.

B. Shop Drawings: For fire alarm system:

1. Floor plans (minimum 1/8-inch scale) with room names and numbers, showing device locations and interconnecting conduit and wire. Include location of fire/smoke rated or barrier walls.
2. Drawings shall show proposed layout and anchorage of equipment and appurtenances and equipment relationship to other parts of the work, including clearances for maintenance and operation.
3. Scaled detail drawings of FACP and FAAP panel fronts.
4. Wiring diagram for each device. Include connection details to auxiliary equipment.
5. Customize the second sentence of Clause F. to suit project-specific requirements.
6. Riser diagram showing devices, equipment, and interconnecting conduit and wire. Indicate points of connection to other equipment such as, damper actuators, kitchen hood fire protection systems, pre-action fire protection systems, clean agent fire protection systems, elevator machine rooms and shafts, electric door locking hardware, fire door releases, magnetic door holders, and other related devices and equipment.
7. Complete narrative of the sequence of operation.
8. Sequence of operation matrix table including a complete line-by-line listing of fire alarm initiating devices, corresponding device address, and input/output matrix.
9. Voltage drop calculations.
10. Battery sizing calculations.
11. Visual alarm power supply sizing calculations.
12. Power supply calculations for magnetic door holders, and electric door locking hardware.
13. Wire identification schedule.
14. Include statement from manufacturer that all equipment and components have been tested as a system and meet all requirements in this specification and in NFPA 72.All

drawings must be stamped and signed by a Professional Engineer registered in New York State, for approval by the Fire Marshal and NYSED.

1.4 CLOSEOUT SUBMITTALS

A. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals. Include the following:

1. Comply with the "Records" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

2. Provide "Fire Alarm and Emergency Communications System Record of Completion Documents" according to the "Completion Documents" Article in the "Documentation" section of the "Fundamentals" chapter in NFPA 72.

3. Complete wiring diagrams showing connections between all devices and equipment. Each conductor shall be numbered at every junction point with indication of origination and termination points.

4. Riser diagram.

5. Device addresses.

6. Record copy of site-specific software. This software shall also be in an electronic format to allow an alternate Authorized Distributor to add , change , or modify in any way, the existing system data base.

7. Provide "Inspection and Testing Form" according to the "Inspection, Testing and Maintenance" chapter in NFPA 72, and include the following:

a. Equipment tested.

b. Frequency of testing of installed components.

c. Frequency of inspection of installed components.

d. Requirements and recommendations related to results of maintenance.

e. Manufacturer's user training manuals.

8. Manufacturer's required maintenance related to system warranty requirements.

9. Abbreviated operating instructions for mounting at fire-alarm control unit and each annunciator unit.

1.5 QUALITY ASSURANCE

A. Installer Qualifications: Personnel shall be trained and certified by manufacturer for installation of units required for this Project.

B. Installer Qualifications: Installation shall be by personnel certified by NICET as fire alarm Level III technician.

C. NFPA Certification: Obtain certification according to NFPA 72 by a UL-listed alarm company.

D. Manufacturer and equipment supplier shall have a minimum of ten years' prior experience in New York State. Equipment supplier shall have 24-hour parts and labor service available with a maximum 4-hour response time. There shall be a minimum of 2 Independent Authorized Distributors within a 50 mile radius of project. Proprietary equipment shall not be acceptable.

1.6 PROJECT CONDITIONS

A. Use of Devices during Construction: Protect devices during construction unless devices are placed in service to protect the facility during construction.

1.7 SYSTEM ZONING

A. Alarm Initiating Devices:

1. Provide a separate, individual zone for each manual pull station, area smoke detector, duct smoke detector, and area heat detector, and water flow switch.

B. Fire Audible and Visual Alarm Strobes:

1. Each floor of the building (above and below grade) shall be a separate, individual zone.

2. Each stairwell shall be a separate, individual zone.

3. Each exterior area shall be a separate individual zone.

C. Fire Alarm Control zones:

1. Air Handling Fan systems: Provide one (1) shutdown contact for each air handling fan systems. Contacts shall initiate the shutdown of fan system and closing of dampers on associated floor.

2. Provide two (2) open/close contact for each floor's/zones's dampers grouped as a function of being in the supply or return air streams.

3. Provide one (1) recall contact for each elevator control panel to recall elevator to ground floor.

4. Provide one (1) release control contact for all door lock systems.

D. Initiating and signaling device wiring circuits/loops/channels shall be loaded to no more than 80 percent (80%) capacity to allow for the installation of future devices.

1.8 WARRANTY

A. Special Warranty: Manufacturer agrees to repair or replace fire-alarm system equipment and components that fail in materials or workmanship within specified warranty period.

1. Warranty Extent: All equipment and components not covered in the Maintenance Service Agreement.

B. Warranty Period: Three years from date of Substantial Completion.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

A. All new fire detection and alarm system components shall be ~~of the same manufacturer, and must meet all requirements of the contract documents.~~ ***procured as part of a state contract. (Addendum 3)***

B. ~~Acceptable manufacturers~~ ***State Contract Manufacturer: (Addendum 3)***

1. Edwards

~~C. Products for this project shall be of the latest design that has been in service for at least two (2) years, and no more than 4 years. Obsolete or discontinued models are not acceptable.~~ ***(Addendum 3)***

2.2 DESCRIPTION

A. Fire alarm system infrastructure including conduit, wiring, backboxes, etc. and all associated labor and installation is in the scope of this contract.

B. Shop drawings and submittal review/approval, testing and programming, project management and closeout documentation shall be by the fire alarm system manufacturer's authorized representative.

C. Provide a microprocessor-controlled, electrically supervised fire alarm system in accordance with the Contract Documents. Provide detailed system design, all equipment, tools, drawings, labor, materials, accessories, and approvals from governing agencies required to furnish, install, start up, and test a complete operating fire alarm system. Systems shall be provided and placed into operation in accordance with the requirements of the Authority Having Jurisdiction (AHJ).

D. Labor, materials including conduit and wiring, and accessories not specifically called for in the Contract Documents but required to provide complete, operating, and approved systems, shall be provided within the scope of this contract.

E. Determine, coordinate, and incorporate the design and construction requirements of the architectural, structural, fire protection and mechanical systems, and auxiliary systems including food service, fire doors and windows, elevators, and other related systems, to fully meet all code requirements.

F. The fire alarm system manufacturer and Contractor shall provide all required documentation, obtain all required permits and approvals, and shall provide all devices and accessories in the quantities and locations necessary for a fully functional and code-compliant system.

G. Programming of system shall be based on final room names and numbers, which may not necessarily be the same as those used on the construction documents.

H. Noncoded, UL-certified addressable system, with multiplexed signal transmission and voice/strobe evacuation.

I. The Fire Alarm Control Panel (FACP) and Fire Alarm Annunciator Panel (FAAP) shall be connected in a network configuration to become components for a distributed intelligence system.

J. The fire detection and alarm system shall be the fully addressable type. Each fire alarm initiating device shall be a separate, individual zone. Provide interface modules to connect non-addressable devices to addressable wiring channels.

K. All components provided shall be listed for use with the selected system.

L. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.

2.3 SYSTEMS OPERATIONAL DESCRIPTION

A. Fire alarm signal initiation shall be by one or more of the following devices and systems:

1. Manual pull stations.
2. Heat detectors.
3. Smoke detectors.
4. Duct smoke detectors.
5. Waterflow Switch.

B. Fire alarm signal shall initiate the following actions:

1. Continuously operate alarm notification appliances, including voice evacuation notices.
2. Identify alarm and specific initiating device at FACP, connected network control panels, off-premises network control panels, and remote annunciators.
3. Indicate device in alarm on the graphic annunciator
4. Transmit an alarm signal to the remote alarm receiving station.
5. Unlock electric door locks in designated egress paths.
6. Release fire and smoke doors held open by magnetic door holders.
7. Activate voice/alarm communication system.
8. Switch heating, ventilating, and air-conditioning equipment controls to fire alarm mode.
9. Close smoke dampers in air ducts of designated air conditioning duct systems.
10. Activate emergency shutoffs for gas and fuel supplies.
11. Record events in the system memory.

C. Detection of carbon monoxide by a carbon monoxide detector shall:

1. Activate a distinct carbon monoxide alarm at the FACP.
    a. Carbon monoxide signal shall be a separate and distinct signal from the fire alarm system.

2. Activate distinct local carbon monoxide visual/audible notification appliances for associated carbon monoxide detector in alarm condition.
3. Activate carbon monoxide detector sounder base (if present).
4. Send a distinct carbon monoxide detector supervisory signal to central office.

D. Supervisory signal initiation shall be by one or more of the following devices and actions:

1. Independent fire detection and suppression systems.
2. User disabling of zones or individual devices.
3. Loss of communication with any panel on the network.

E. System trouble signal initiation shall be by one or more of the following devices and actions:

1. Open circuits, shorts, and grounds in designated circuits.
2. Opening, tampering with, or removing alarm-initiating and supervisory signal-initiating devices.
3. Loss of communication with any addressable sensor, input module, relay, control module, remote annunciator, or Ethernet module.
4. Loss of primary power at FACP.
5. Ground or a single break in internal circuits of FACP.
6. Abnormal AC voltage at FACP.
7. Break in standby battery circuitry.
8. Failure of battery charging.
9. Abnormal position of any switch at FACP or annunciator.
10. Voice signal amplifier failure.

F. System Supervisory Signal Actions:

1. Identify specific device initiating the event at FACP, off-premises network control panels, and remote annunciators.
2. After a time delay of 200 seconds, transmit a trouble or supervisory signal to the remote alarm receiving station.
3. Display system status on FAAP.

2.4 FIRE ALARM CONTROL PANEL (FACP)

A. General Requirements for FACP:

1. Field-programmable, microprocessor-based, modular, power-limited design with electronic modules, complying with UL 864.

a. System software and programs shall be held in nonvolatile flash, electrically erasable, programmable, read-only memory, retaining the information through failure of primary and secondary power supplies.

b. Include a real-time clock for time annotation of events on the event recorder.

c. Provide communication between the FACP and remote circuit interface panels, annunciators, and displays.

d. The FACP shall be listed for connection to a central station signaling system service.

e. Provide nonvolatile memory for system database, logic, and operating system and event history. The system shall require no manual input to initialize in the event of a complete power down condition. The FACP shall provide a minimum 500-event history log.

2. Addressable Initiation Device Circuits: The FACP shall indicate which communication zones have been silenced and shall provide selective silencing of alarm notification appliance by building communication zone.

3. Addressable Control Circuits for Operation of Notification Appliances and Mechanical Equipment: The FACP shall be listed for releasing service.

B. Alphanumeric Display and System Controls: Arranged for interface between human operator at FACP and addressable system components including annunciation and supervision. Display alarm, supervisory, and component status messages and the programming and control menu.

1. Annunciator and Display: Liquid-crystal type, three line(s) of 80 characters, minimum.

2. Keypad: Arranged to permit entry and execution of programming, display, and control commands and to indicate control commands to be entered into the system for control of smoke-detector sensitivity and other parameters.

C. Initiating Device, Notification Appliance, and Signaling Line Circuits:

1. Pathway Class Designations: NFPA 72, Class B.

2. Pathway Survivability: Level 0. Staged evacuation Level 2 or 3.
3. Install no more than 100 addressable devices on each signaling-line circuit.
4. Serial Interfaces:
    a. One dedicated RS 485 port for remote station operation using point ID DACT.
    b. One RS 485 port for remote annunciators, Ethernet module, or multi-interface module.
    c. One USB or RS 232 port for PC configuration.
    d. One RS 232 port for VESDA HLI connection.
    e. One RS 232 port for voice evacuation interface.

D. Smoke Alarm Verification:
1. Smoke alarm verification shall not be enabled.

E. Elevator recall:
1. Elevator recall shall be initiated only by one of the following alarm-initiating devices.
    a. Elevator lobby detectors except the lobby detector on the designated floor.
    b. Smoke detector in elevator machine room.
    c. Waterflow switch activation.
2. Elevator controller shall be programmed to move the cars to the alternate recall floor if lobby detectors located on the designated recall floors are activated.
3. Water-flow alarm connected to sprinkler in an elevator shaft and elevator machine room shall shut down elevators associated with the location without time delay.
    a. Water-flow switch associated with the sprinkler in the elevator pit may have a delay to allow elevators to move to the designated floor.

F. Notification Appliance Circuit:
1. Audible appliances shall sound in a three-pulse temporal pattern, as defined in NFPA 72.

2. Where notification appliances provide signals to sleeping areas, the alarm signal shall be a 520-Hz square wave with an intensity 15 dB above the average ambient sound level or 5 dB above the maximum sound level, or at least 75 dBA, whichever is greater, measured at the pillow.

3. Visual alarm appliances shall flash in synchronization where multiple appliances are in the same field of view, as defined in NFPA 72.

G. Door Controls:

1. Door hold-open devices that are controlled by smoke detectors at doors in smoke-barrier walls shall be connected to fire alarm system.

H. Remote Smoke-Detector Sensitivity Adjustment:

1. Controls shall select specific addressable smoke detectors for adjustment, display their current status and sensitivity settings, and change those settings. Allow controls to be used to program repetitive, time-scheduled, and automated changes in sensitivity of specific detector groups. Record sensitivity adjustments and sensitivity-adjustment schedule changes in system memory.

I. Transmission to Remote Alarm Receiving Station:

1. Automatically transmit alarm, supervisory, and trouble signals to a remote alarm station.

J. Voice/Alarm Signaling Service: Central emergency communication system with redundant preamplifiers, amplifiers, and tone generators provided as a special module that is part of fire-alarm control unit.

1. Indicate number of alarm channels for automatic, simultaneous transmission of different announcements to different zones or for manual transmission of announcements by use of the central-control microphone. Amplifiers shall comply with UL 1711.

a. System shall provide a minimum of 8 digital audio channels)

b. Allow the application of, and evacuation signal to, indicated number of zones and, at the same time, allow voice paging to the other zones selectively or in any combination.

c. Programmable tone and message sequence selection.

d. Standard digitally recorded messages for "Evacuation" and "All Clear."

e. Generate tones to be sequenced with audio messages of type recommended by NFPA 72 and that are compatible with tone patterns of notification-appliance circuits of fire-alarm control unit.

2. Status Annunciator: Indicate the status of various voice/alarm speaker zones and the status of firefighters two-way telephone communications zones.

3. preamplifiers, amplifiers, and tone generators shall automatically transfer to backup units, on primary equipment failure.

4. Primary Power: 24V DC obtained from 120V AC service and a power supply module. Initiating devices, notification appliances, signaling lines, trouble signals, supervisory signals supervisory and digital alarm communicator transmitters and digital alarm radio transmitters shall be powered by 24V DC source.

5. Alarm current draw of entire fire alarm system shall not exceed 80 percent of the power-supply module rating.

K. Primary Power: 24-V dc obtained from 120-V ac service and a power supply module. Initiating device, notification appliances, signaling lines, trouble signals, supervisor signals, supervisory and digital alarm communicator transmitters and digital alarm radio transmitters shall be powered by 24- V dc source.

L. Secondary Power: Provide sufficient battery capacity to operate the entire system upon loss of power as required by NFPA 72 Section 10.6.7.2.1. Battery capacity shall be calculated for minimum 24 hours of capacity in nonalarm (standby) mode and then 15 minutes at maximum connected load after that time period for audio voice systems and 24/5 for non audio systems. The on-site emergency power system shall not be used when sizing the battery supply. The system shall automatically transfer to the standby batteries upon power failure. Battery charging and recharging shall be automatic.

2.5 MANUAL FIRE ALARM PULL STATIONS

A. General Requirements: Comply with UL 38. Boxes shall be finished in red with molded, raised-letter operating instructions in contrasting color; shall show visible indication of operation; and shall be mounted on recessed outlet box. If indicated as surface mounted, provide manufacturer's surface back box.

1. Single-action mechanism, pull-lever type; with integral addressable module arranged to communicate manual-station status (normal, alarm, or trouble) to FACP.

2. Station Reset: Key-operated switch.

2.6 SYSTEM SMOKE DETECTORS

A. General Requirements:

1. Comply with UL 268 and FM approved; operating at 24V DC, nominal, Photoelectric type.

2. Base Mounting: Detector and associated electronic components shall be mounted in a twist-lock module that connects to a fixed base. Provide terminals in the fixed base for connection to building wiring.

3. Self-Restoring: Detectors do not require resetting or readjustment after actuation to restore them to normal operation.

4. Integral Visual-Indicating Light: LED type, indicating detector alarm/power-on status.

5. Thirty (30) mesh insect screen and magnetically activated test.

6. Remote Control: Unless otherwise indicated, detectors shall be digital-addressable type, individually monitored at FACP for calibration, sensitivity, and alarm condition and individually adjustable for sensitivity by FACP.

   a. Rate-of-rise temperature characteristic of combination smoke- and heat-detection units shall be selectable at FACP for 15 or 20 deg F per minute.

   b. Multiple levels of detection sensitivity for each sensor.

   c. Sensitivity levels based on time of day. Photoelectric Smoke Detectors:

7. Detector address shall be accessible from FACP and shall be able to identify the detector's location within the system and its sensitivity setting.

8. An operator at FACP, having the designated access level, shall be able to manually access the following for each detector:

   a. Primary status.

   b. Device type.

   c. Present average value.

   d. Present sensitivity selected.

   e. Sensor range (normal, dirty, etc.).

C. Duct Smoke Detectors: Photoelectric type complying with UL 268A, 24V DC.

1. Detector address shall be accessible from fire-alarm control unit and shall be able to identify the detector's location within the system and its sensitivity setting.
2. An operator at fire-alarm control unit, having the designated access level, shall be able to manually access the following for each detector:
    a. Primary status.
    b. Device type.
    c. Present average value.
    d. Present sensitivity selected.
    e. Sensor range (normal, dirty, etc.).
3. Weatherproof Duct Housing Enclosure: NEMA 250, Type 4X; NRTL listed for use with the supplied detector for smoke detection in HVAC system ducts.
4. Duct detector and housing shall be calibrated and adjusted for sensitivity at the manufacturer’s factor to U.L. standards. Detector and housing shall be self-compensating for the effect of air velocity, temperature, humidity and atmospheric pressure.
5. Each duct detector shall be provide with sampling tubes sized according to duct size, air velocity, and installation conditions.
6. Each duct detector shall be provided with remote alarm LED on a single gang plate, surface or flush mounted.

2.7 CARBON MONOXIDE DETECTORS

A. General: Carbon monoxide detector listed for connection to fire-alarm system.
    1. Mounting: Adapter plate for outlet box mounting.
    2. Testable by introducing test carbon monoxide into the sensing cell.
    3. Detector shall provide alarm contacts and trouble contacts.
    4. Detector shall send trouble alarm when nearing end-of-life, power supply problems, or internal faults.
    5. Comply with UL 2075.
    6. Locate, mount, and wire according to manufacturer's written instructions.

7. Provide means for addressable connection to fire-alarm system.

8. Detector base shall provide a temporal 4 alarm signal.

2.8 HEAT DETECTORS

A. General Requirements for Heat Detectors: Comply with UL 521.

1. Temperature sensors shall test for and communicate the sensitivity range of the device.

B. Heat Detector, Combination Type: Actuated by either a fixed temperature of 135 deg F or a rate of rise that exceeds 15 deg F per minute unless otherwise indicated.

1. Mounting: Twist-lock base interchangeable with smoke-detector bases.

2. Integral Addressable Module: Arranged to communicate detector status (normal, alarm, or trouble) to FACP.

2.9 NOTIFICATION APPLIANCES

A. General Requirements for Notification Appliances: Connected to notification-appliance signal circuits, zoned as indicated, equipped for mounting as indicated, and with screw terminals for system connections.

1. Combination Devices: Factory-integrated audible and visible devices in a single-mounting assembly, equipped for mounting as indicated, and with screw terminals for system connections.

B. Horns: Electric-vibrating-polarized type, 24-V dc; with provision for housing the operating mechanism behind a grille. Comply with UL 464. Horns shall produce a sound-pressure level of 90 dBA, measured 10 feet from the horn, using the coded signal prescribed in UL 464 test protocol.

C. Visible Notification Appliances: Xenon strobe lights complying with UL 1971, with clear or nominal white polycarbonate lens mounted on an aluminum faceplate. The word "FIRE" is engraved in minimum 1 inch high letters on the lens.

1. Rated Light Output:

a. 15/30/75/110 cd, selectable in the field.

2. Mounting: Wall mounted unless otherwise indicated.

3. For units with guards to prevent physical damage, light output ratings shall be determined with guards in place.
4. Flashing shall be in a temporal pattern, synchronized with other units.
5. Strobe Leads: Factory connected to screw terminals.
6. Mounting Faceplate: Factory finished, red.

D. Voice/Tone Notification Appliances:

1. Speakers shall be capable of providing 520hz.
2. Comply with UL 1480.
3. Speakers for Voice Notification: Locate speakers for voice notification to provide the intelligibility requirements of the "Notification Appliances" and "Emergency Communications Systems" chapters of NFPA 72.
4. Speaker shall be capable of field selection of speaker voltage (25 and 70.7 Vrms) and power settings (1/4 W, 1/2 W, 1 W, 2 W).
    a. Final settings shall be field adjusted to match the acoustical environment of each speaker.

E. Exit Marking Audible Notification Appliance:

1. Exit marking audible notification appliances shall meet the audibility requirements in NFPA 72.
2. Provide exit marking audible notification appliances at the entrance to all building exits.
3. Provide exit marking audible notification appliances at the entrance to areas of refuge with audible signals distinct from those used for building exit marking.

2.10 FIRE ALARM ANNUNCIATOR PANEL (FAAP)

A. Graphic Annunciator Panel: Mounted in an aluminum frame with nonglare, minimum 3/16-inch thick, clear acrylic cover over graphic representation of the facility. Detector locations shall be represented by red LED lamps. Normal system operation shall be indicated by a lighted, green LED. Trouble and supervisory alarms shall be represented by an amber LED.

1. Comply with UL 864.
2. Shall Operate from 24-V dc power supplied by the FACP.

3. Include built-in voltage regulation, reverse polarity protection, RS 232/422 serial communications, and a lamp test switch.
4. Surface mounted in a NEMA 250, Type 1 cabinet, with key lock and no exposed screws or hinges.
5. Graphic representation of the facility floorplan, and each detector shall be represented by an LED in its actual location. Floorplan shall be at 1/8-inch per foot scale or larger.
6. The LED representing a detector shall flash two times per second while detector is an alarm.

2.11 ADDRESSABLE INTERFACE DEVICE

A. General:
1. Include address-setting means on the module.
2. Store an internal identifying code for control panel use to identify the module type.
3. Listed for controlling HVAC fan motor controllers.
4. Devices shall be flush mounted in finished areas and surface mounted with back box in unfinished areas.

B. Monitor Module (SIGA-CT series): Microelectronic module providing a system address for alarm-initiating devices for wired applications with normally open contacts using NFPA 72A Style B (Class B, Two-Wire) circuit supervision. Module responds to polling signals from FACP/Transponder and shall report alarm initiating/supervisory circuit status changes to it.

C. Control Module (EST SIGA-CRH): Microelectronic module with one (1) induvial addressable control relay with double-pole/double-throw (DPDT) contacts rated at two (7.0A) @ 120VAC/28VDC. Module response to control signals from FACP/Transponder.

2.12 DIGITAL ALARM COMMUNICATOR TRANSMITTER

A. Digital alarm communicator transmitter shall be acceptable to the remote central station and shall comply with UL 632.

B. Functional Performance: Unit shall receive an alarm, supervisory, or trouble signal from FACP and automatically capture two telephone line(s) and dial a preset number for a remote central station. When contact is made with central station(s), signals shall be

transmitted. If service on either line is interrupted for longer than 45 seconds, transmitter shall initiate a local trouble signal and transmit the signal indicating loss of telephone line to the remote alarm receiving station over the remaining line. Transmitter shall automatically report telephone service restoration to the central station. If service is lost on both telephone lines, transmitter shall initiate the local trouble signal.

C. Addressable communications circuits from system transponders shall be electrically supervised in accordance with NFPA 72A Style 6 (Class A, four-wire) standards, monitoring for alarm (shorts), trouble (opens), and ground faults. When wired in the Style 6 (Class A, four-wire) configuration, a single open or ground fault shall not prevent the receipt of an alarm condition. Addressable communications circuits shall utilize two (2) cables of two (2) No. 18 AWG twisted conductors from the transponder to the connected addressable devices.

D. Local functions and display at the digital alarm communicator transmitter shall include the following:

1. Verification that both telephone lines are available.
2. Programming device.
3. LED display.
4. Manual test report function and manual transmission clear indication.
5. Communications failure with the central station or FACP.

E. Digital data transmission shall include the following:

1. Address of the alarm-initiating device.
2. Address of the supervisory signal.
3. Address of the trouble-initiating device.
4. Loss of ac supply.
5. Loss of power.
6. Low battery.
7. Abnormal test signal.
8. Communication bus failure.

F. Secondary Power: Integral rechargeable battery and automatic charger.

G. Self-Test: Conducted automatically every 24 hours with report transmitted to central station.

2.13 NETWORK COMMUNICATIONS

A. Provide network communications for fire alarm system according to fire alarm manufacturer's written requirements.

B. Provide network communications pathway per manufacturer's written requirements and requirements in NFPA 72 and NFPA 70.

C. Provide integration gateway using BACnet for connection to building automation system when required.

2.14 DEVICE GUARDS

A. Description: Welded wire mesh of size and shape for the device requiring protection.

1. Factory fabricated and furnished by device manufacturer.

2. Finish: Paint of color to match the protected device.

3. Guards must be UL cross listed with devices being used.

PART 3 - EXECUTION

3.1 EXAMINATION

A. Examine areas and conditions for compliance with requirements for ventilation, temperature, humidity, and other conditions affecting performance of the Work.

1. Verify that manufacturer's written instructions for environmental conditions have been permanently established in spaces where equipment and wiring are installed, before installation begins.

B. Examine roughing-in for electrical connections to verify actual locations of connections before installation.

C. Proceed with installation only after unsatisfactory conditions have been corrected.

3.2 EQUIPMENT INSTALLATION

A. Comply with NFPA 72, NFPA 101, and requirements of authorities having jurisdiction for installation and testing of fire alarm equipment. Install all electrical wiring to comply with requirements in NFPA 70 including, but not limited to, Article 760, "Fire Alarm Systems."

1. Devices placed in service before all other trades have completed cleanup shall be replaced.

2. Devices installed but not yet placed in service shall be protected from construction dust, debris, dirt, moisture, and damage according to manufacturer's written storage instructions.

B. Install wall-mounted equipment, with tops of cabinets not more than 78 inches above the finished floor.

C. Manual Fire Alarm Pull Stations:

1. Install manual fire alarm pull station in the normal path of egress within 60 inches of the exit doorway.

2. The operable part of manual fire alarm pull station shall be between 42 inches and 48 inches above floor level. All devices shall be mounted at the same height unless otherwise indicated. Smoke or Heat Detector Spacing:

1. Comply with the "Smoke-Sensing Fire Detectors" section in the "Initiating Devices" chapter in NFPA 72, for smoke-detector spacing.

2. Comply with the "Heat-Sensing Fire Detectors" section in the "Initiating Devices" chapter in NFPA 72, for heat-detector spacing.

3. Smooth ceiling spacing shall not exceed 30 feet.

4. Spacing of detectors for irregular areas, for irregular ceiling construction, and for high ceiling areas shall be determined according to Annex A or Annex B in NFPA 72.

5. HVAC: Locate detectors not closer than 36 inches from air-supply diffuser or return-air opening.

6. Lighting Fixtures: Locate detectors not closer than 12 inches from any part of a lighting fixture and not directly above pendant mounted or indirect lighting.

E. Install a cover on each smoke detector that is not placed in service during construction. Cover shall remain in place except during system testing. Remove cover prior to system turnover.

F. Remote Status and Alarm Indicators: Install in a visible location near each smoke detector, sprinkler water-flow switch, and valve-tamper switch that is not readily visible from normal viewing position.

G. Audible Alarm Indicating Devices: Install not less than 6 inches below the ceiling. Install bells and horns on flush-mounted back boxes with the device-operating mechanism concealed behind a grille. Install all devices at the same height unless otherwise indicated.

H. Visible Alarm-Indicating Devices: Install adjacent to each alarm horn and at least 6 inches below the ceiling. Install all devices at the same height unless otherwise indicated.

I. Device Location-Indicating Lights: Locate in public space near the device they monitor.

3.3 PATHWAYS

A. Fire alarm pathway and circuit wiring installation shall comply with NEC Article 760.

B. Where exposed, all fire alarm circuits shall be installed in dedicated EMT conduit.

C. Where existing wall devices are being replaced in the same location, install new fire alarm circuit wiring in existing conduit within wall (where available).

D. Pathways above recessed ceilings and in nonaccessible locations may be plenum-rated cable.

E. All pathways must be independently supported from the structure above.

F. Where passing through a wall or floor, provide a metal raceway or rigid nonmetallic conduit sleeve.

G. All penetrations of rated walls and floors shall be properly fire-stopped.

3.4 IDENTIFICATION

A. Provide an identification nameplate for each equipment cabinet. Nameplates shall correspond with labeling identified in the submittal drawings. Nameplates must be engraved and secured using rivets or screws. The use of Dymo type labels is unacceptable.

B. Fire alarm conduit shall be permanently labeled “FIRE ALARM” every 30 feet.

C. Fire alarm junction boxes shall be painted red.

D. All initiating and indicating devices shall be labeled with self-adhesive tape with black lettering and identification labeling according to circuit loop and device address/number.

E. Color code all wiring per recommended standards. Tag all wires in terminal cabinets with tie wrap tags with inked identification.

F. Install framed instructions in a location visible from FACP.

3.5 GROUNDING

A. Ground FACP and associated circuits; comply with IEEE 1100. Install a ground wire from main service ground to FACP.

B. Ground shielded cables at the control panel location only. Insulate shield at device location.

3.6 TESTING

A. The fire alarm system manufacturer or manufacturer's authorized representative shall test and inspect components, assemblies, and equipment installations, including connections.

B. Tests shall be witnessed by District (Owner), Engineer of Record, and the Fire Department.

C. The following tests and inspections shall be performed:

1. Visual Inspection: Conduct visual inspection prior to testing.

a. Inspection shall be based on completed record Drawings and system documentation that is required by NFPA 72.

b. Comply with the "Visual Inspection Frequencies" table in the "Inspection" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72; retain the "Initial/Reacceptance" column and list only the installed components.

2. System Testing: Comply with the "Test Methods" table in the "Testing" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

3. Test audible appliances for the public operating mode according to manufacturer's written instructions. Perform the test using a portable sound-level meter complying with Type 2 requirements in ANSI S1.4.

4. Test visible appliances for the public operating mode according to manufacturer's written instructions.

5. System manufacturer shall prepare the "Fire Alarm System Record of Completion" in the "Documentation" section of the "Fundamentals" chapter in NFPA 72 and the

"Inspection and Testing Form" in the "Records" section of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

D. Reacceptance Testing: Perform reacceptance testing to verify the proper operation of added or replaced devices and appliances.

E. Fire alarm system will be considered defective if it does not pass tests and inspections.

3.7 CLOSEOUT DOCUMENTATION

A. The fire alarm system manufacturer or manufacturer's authorized representative shall prepare and submit to the Engineer of Record all NFPA 72 required closeout documentation including, but not limited to:

1. System Record of Completion
2. Notification Appliance Power Panel Supplementary Record of Completion
3. System Record of Inspection and Testing
4. Notification Appliance Supplementary Record of Inspection and Testing
5. Initiating Device Supplementary Record of Inspection and Testing
6. Periodic Inspection, Testing and Maintenance Documentation

B. Record Drawings, to include:

1. Minimum 1/8" scale floorplan drawings indicating all final device types, locations, ratings, settings and addresses
2. Wiring diagram of each device type
3. Riser diagram showing devices, device addresses, equipment, and interconnecting conduit and wire
4. Narrative of sequence of operation
5. Sequence of operation matrix (includes complete line-by-line listing for fire alarm initiating devices, device address and input/output matrix
6. Voltage drop calculations
7. Battery sizing calculations
8. Visual alarm power supply sizing calculations
9. Power supply calculations for door holders

10. Wire identification schedule

11. Legend

C. Operation and Maintenance Data: For fire-alarm systems and components to include in emergency, operation, and maintenance manuals.

D. Operating instructions for mounting at fire-alarm control unit and each annunciator unit.

E. Warranty documentation.

F. All closeout documentation shall be signed and sealed by a Registered Professional Engineer in New York State.

3.8 MAINTENANCE SERVICE

A. Initial Maintenance Service: Beginning at Substantial Completion, maintenance service shall include 12 months' full maintenance by skilled employees of manufacturer's designated service organization. Include preventive maintenance, repair or replacement of worn or defective components, lubrication, cleaning, and adjusting as required for proper operation. Parts and supplies shall be manufacturer's authorized replacement parts and supplies.

1. Include visual inspections according to the "Visual Inspection Frequencies" table in the "Testing" paragraph of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

2. Perform tests in the "Test Methods" table in the "Testing" paragraph of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

B. Perform tests per the "Testing Frequencies" table in the "Testing" paragraph of the "Inspection, Testing and Maintenance" chapter in NFPA 72.

3.9 DEMONSTRATION

A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain fire alarm system.

END OF SECTION 283100

PLAN LEGEND:

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
BUILDING		
MAJOR CONTOUR	520	520
MINOR CONTOUR	521	521
LIGHT POLE	LP	
SIGN		
STORM SEWER, INLET MH, CB & END SECTION	CB	
SANITARY SEWER & MANHOLE		
SPOT ELEVATION		TC:492.9 BC:492.4 X 492.7 492.7
PROPOSED UNDERDRAIN		3

HORIZONTAL SCALE
20 0 10 20 40
SCALE: 1"=20'

UDIG·NY
SAFE DIGGING STARTS HERE

ASSUMED BOUNDARY LINE PER R.O.W. WIDTH (PER OFFICIAL MAP OF THE CITY OF NEWBURGH DATED 10/09/1936)

MATCH LINE (SEE C141)

MATCH LINE (SEE C142)

WEST STREET
(ASPHALT ROADWAY)
(TWO WAY TRAFFIC)

BIORETENTION BASIN #1
1,754.18 SF BED
BED ELEV = 248.75
TOP OF BERM = 249.75

SEDIMENT FOREBAY #1
19.98 SF BED
1,861.99 CF
BED ELEV = 246.75
TOP OF BERM = 250.75

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

DS-14
RIM=257.18
DIVERSION STR

FES-14.1
SMH- SW INV = 249.25
RIM=255.91
4' DIA

DS-13
RIM=258.45
2'x2' CB

DS-12
RIM=257.95
2'x2' CB

6' WIDE STABILIZED OVERFLOW INV = 261.10

STOP

INV: 255.79

TC=259.53
BC=259.03

TC=258.75
BC=258.25

INV: 255.29

DS-39 (2'X2' CB)
RIM=261.00
OUTLET CTRL STRUCTURE

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

INFILTRATION BASIN #4
376.89 SF BED
BED ELEV = 259.00
TOP OF BERM = 262.00

SMH-2
RIM=260.68
4' DIA

FES-44.1
SE INV = 252.00

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

TC=261.83
BC=261.33

TC=261.90
BC=261.40

FES-10.1
E INV = 259.90

TC=264.15
BC=263.65

TC=265.16
BC=264.66

PRE-TREATMENT UNIT #3
RIM=264.70
CONTECH CDS-4-C

TC=265.58
BC=265.08

DS-44
RIM=263.83
YD INLET

SMH-1
RIM=265.28
4' DIA

FES-03.1
E INV = 258.00

6' WIDE STABILIZED OVERFLOW
INV = 261.80

TC=263.25
BC=263.02

TC=262.85
BC=261.85

TC=263.20
BC=262.70

TC=263.00
BC=262.50

INV: 260.33

TC=263.43
BC=262.93

TC=263.89
BC=263.39

DS-9
RIM=262.99
2'x2' CB

4" PERFORATED HDPE PIPE (TYP.)

INV: 261.76

DS-10
RIM=264.42
2'x2' CB

4" PERFORATED HDPE PIPE (TYP.)

TC=265.86
BC=265.36

TC=265.70
BC=265.20

TC=265.72
BC=265.22

TC=265.78
BC=265.28

TC=265.85
BC=265.34

INV: 262.68

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

DS-1
RIM=261.25
2'x2' CB

TC=262.20
BC=261.70

INV: 258.92

DS-2
RIM=261.46
2'x2' CB

INV: 259.13

TC=261.71
BC=261.21

TC=262.36
BC=261.86

TC=263.90
BC=263.40

TC=264.50
BC=264.00

PRE-TREATMENT #2
RIM=262.44
CONTECH CDS-4-C

4" PERFORATED HDPE PIPE (TYP.)

TC=262.31
BC=262.31

INV: 260.70

TC=264.44
BC=264.14

TC=265.86
BC=265.36

TC=265.97
BC=265.47

TC=263.21
BC=262.71

DS-5
RIM=263.42
2'x2' CB

INV: 261.09

TC=264.14
BC=263.64

DS-4
RIM=263.03
2'x2 CB

INV: 261.41

TC=262.23
BC=261.73

TC=262.67
BC=262.17

TC=263.66
BC=263.16

TC=264.97
BC=264.47

TC=265.43
BC=264.93

TC=265.65
BC=265.15

TC=265.78
BC=265.28

TC=265.45
BC=265.45

TC=265.75
BC=265.75

TC=264.47
BC=263.97

TC=263.59
BC=263.09

TC=263.11
BC=262.61

TC=263.97
BC=263.47

DS-6
RIM=263.14
2'x2' CB

TC=265.79
BC=265.79

TC=265.67
BC=265.67

TC=265.99
BC=265.49

RIP RAP SIZE=9'x8'
d_{50}=4": d_{MAX}=6"
BLANKET THICKNESS=9"

FES-7.1
NE INV = 259.50

PRE-TREATMENT UNIT #1
RIM=263.06
CONTECH CDS-3-C

INFILTRATION BASIN #2
4,046.16 SF BED
BED ELEV = 260.00
TOP OF BERM = 263.00

4'x4' EMERGENCY OVERFLOW INV = 262.00

TC=264.02
BC=263.52

TC=264.17
BC=263.67

INV: 260.81

TC=263.79
BC=263.29

TC=264.26
BC=263.76

TC=264.13
BC=264.13

INV: 262.00

STOP

TC=264.77
BC=264.27

TC=265.11
BC=264.61

TC=265.19
BC=265.19

TC=265.74
BC=265.24

TC=265.50
BC=265.00

DS-42
RIM=264.75
YARD INLET

GENERATOR YARD (SEE MEP NOTES)

ELECTRICAL TRANSFORMER YARD (SEE MEP NOTES)

DS-34
RIM=265.17
2'x2' CB

DS-35
RIM=265.23
2'x2' CB

WELDING FILTRATION UNIT (SEE MEP NOTES)

TC=266.49
BC=265.99

TC=266.27
BC=265.77

TC=265.92
BC=265.42

INV: 263.38

TC=265.81
BC=265.31

TC=265.78
BC=265.28

TC=265.73
BC=265.23

TC=265.32

TC=265.82

TC=265.45
BC=264.95

INV: 263.45

4" PERFORATED HDPE PIPE (TYP.)

TC=265.59
BC=265.09

TC=265.24
BC=264.74

INV: 26

DS-8
RIM=263.57
2'x2' CB

TC=264.24
BC=263.74

DS-37
RIM=264.31
2'x2' CB

TC=265.15
BC=264.65

TC=265.02
BC=264.52

INV: 261.24

INV: 261.98

DS-36
RIM=265.71
2'x2' CB

4" PERFORATED HDPE PIPE (TYP.)

INFILTRATION BASIN #1
1,899.63 SF BED
BED ELEV = 260.00
TOP OF BERM = 264.00

4'x4' EMERGENCY OVERFLOW INV = 263.75

DS-37.1
NW INV = 261.00

RIP RAP SIZE=9'x8'
D_{50}=4": D_{MAX}=6"
BLANKET THICKNESS=9"

BARBERING LAB
CLASSROOM
COSMETOLOGY
CLASSROOM
PLUMBING EQ ROOM
VET TECH
GROOMING
CLASSROOM
OFFICES
BUILDING OVERHANG (TYP)
FFE = 266.00
NOTE: REMOVE AND REPLACE UNSUITABLE SOILS.
FOOD SERVICE
STORAGE
AREA
CAFETERIA
COURTYARD
ELEC ROOM
NEW CTE BUILDING
70,984 SF FOOTPRINT
FFE = 266.00
BUILDING OVERHANG (TYP)
PLUMBING SHOP
BOILER ROOM
AUTO TECH SHOP
WELDING SHOP
AUTOBODY SHOP
BUILDING OVERHANG (TYP)
FFE = 266.00

MATCH LINE (SEE C141)
MATCH LINE (SEE C142)

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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK
CHRISTOPHER J. LAURIA
LICENSED PROFESSIONAL ENGINEER
102592

3	5/13/2024	BID ADDENDUM #3
2	5/3/2024	BID ADDENDUM #2
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Sheet Title

GRADING PLAN

Sheet No.

CTE C141

CONSTRUCTION DOCUMENTS

Y:\PROJECTS-NEW\2023\2023470\2023470.0003 - CTE BUILDING\01\CAD-BIM-MODELS\CIVIL\C140 - GRADING.DWG 5/10/2024 10:26 AM Patrick Mitchell

HORIZONTAL SCALE
20 0 10 20 40
SCALE: 1"=20'

PLAN LEGEND:

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
BUILDING		
MAJOR CONTOUR	520	520
MINOR CONTOUR	521	521
LIGHT POLE		
SIGN		
STORM SEWER, INLET MH, CB & END SECTION	CB	
SANITARY SEWER & MANHOLE		
SPOT ELEVATION		TC:492.9 BC:492.4 X 492.7 492.7
PROPOSED UNDERDRAIN		3

MATCH LINE (SEE C141)
MATCH LINE (SEE C142)

SMH-3
RIM=243.87
EXIST. SMH

SMH-4
RIM=244.00
4' DIA

DS-18
RIM=238.76
YD INLET

FLUSH EXISTING PIPE NETWORK

6' WIDE STABILIZED OVERFLOW ELEV = 244.50

DS-17 (2'X2' CB)
RIM=244.00
OUTLET CTRL STRUC

DETENTION BASIN

FES-14.2
S INV = 246.73

RIP RAP SIZE=9'x8'
d_{50}=4"; d_{MAX}=6"
BLANKET THICKNESS=9"

FES-15.1
S INV = 245.00

FES-41.1
RIM=245.78
FLARED END SECTION WITH STONE RIP RAP

20' WIDE STABILIZED OVERFLOW ELEV = 249.5

RIP RAP SIZE=9'x8'
d_{50}=4"; d_{MAX}=6"
BLANKET THICKNESS=9"

FES-40.1
RIM=249.52
Concrete Rectangular Headwall

DS-15 (2'X2' CB)
RIM=249.25
OUTLET CTRL STRUCTURE

14' WIDE STABILIZED OVERFLOW ELEV = 249.0

EMERGENCY OVERFLOW ELEVATION = 256.75

DS-40 (2'X2' CB)
RIM=257.40
OUTLET CTRL STRUCTURE

BIORETENTION BASIN #2
4,852.48 SF BED
BED ELEV = 257.00
TOP OF BERM = 258.00

12' WIDE STABILIZED OVERFLOW ELEV = 257.50

SEDIMENT FOREBAY #2
130.13 SF BED
3,138.48 CF
BED ELEV = 254.00
TOP OF BERM = 258.00

FLUSH EXISTING PIPE NETWORK

DS-19
RIM=258.76
2'x2' CB

FES-1.1
RIM=257.52
Concrete Rectangular Headwall

FES-1.2
S INV = 259.50

NOTE: REMOVE AND REPLACE UNSUITABLE SOILS.

GYMNASIUM

RIP RAP SIZE=9'x8'
d_{50}=4"; d_{MAX}=6"
BLANKET THICKNESS=9"

DS-41
RIM=260.04
DIVERSION STR

DS-20
RIM=264.34
30"x42" CB

MATCH LINE (SEE C141)
MATCH LINE (SEE C142)

FFE = 266.00

CONSTRUCTION SHOP

HVAC SHOP

ELECTRICAL SHOP

WELDING FILTRATION UNIT (SEE MEP NOTES)

DS-38
RIM=262.81
2'x2' CB

DS-27
RIM=263.60
30"x42" CB

DS-29
RIM=264.35
2'x2' CB

DS-28
RIM=263.52
2'x2' CB

4" PERFORATED HDPE PIPE (TYP.)

DS-21
RIM=263.21
30"x42" CB

DS-22
RIM=262.41
30"x42" CB

DS-23
RIM=264.13
2'x2' CB

DS-24
RIM=266.22
2'x2' CB

DS-25
RIM=263.07
2'x2' CB

DS-26
RIM=264.30
2'x2' CB

DRY SWALE WITH (5) 6x6 PRESSURE TREATED WEIR (TYP)

FES-32.1
N INV = 237.50

FES-32.2
S INV = 237.00

DS-32
RIM=231.67
2'x2' CB

DS-33
RIM=233.98
EXIST CB

DS-30
RIM=234.75
2'x2' CB

DS-31
RIM=2
2'x2' C

FLUSH EXISTING PIPE NETWORK

4" PERFORATED HDPE PIPE (TYP.)

ASSUMED BOUNDARY LINE PER R.O.W. WIDTH (PER OFFICIAL MAP OF THE CITY OF NEWBURGH DATED 10/09/1936)

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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

Project Title

STATE OF NEW YORK
CHRISTOPHER J LADER
102597
LICENSED PROFESSIONAL ENGINEER

2	5/13/2024	BID ADDENDUM #3
1	5/3/2024	BID ADDENDUM #2
#	DATE	DESCRIPTION

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Sheet Title
GRADING PLAN

Sheet No.
CTE
C142

CONSTRUCTION DOCUMENTS

HORIZONTAL SCALE
20 0 10 20 40
SCALE: 1"=20'

PLAN LEGEND:

	EXISTING	PROPOSED
PROPERTY BOUNDARY		
BUILDING		
MAJOR CONTOUR	520	520
MINOR CONTOUR	521	521
LIGHT POLE	LP	
SIGN		
STORM SEWER, INLET MH, CB & END SECTION	CB	D
SANITARY SEWER & MANHOLE	S	S
WATER LINE		W
SANITARY SEWER		SA
NATURAL GAS (SEE DWG. P101)		G
ELECTRIC (SEE DWG. ES100 & E111)		E

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STANDARD SANITARY SEWER EXTENSION NOTES:

1. MAXIMUM ALLOWABLE INFILTRATION OR EXFILTRATION SHALL NOT EXCEED 100 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER DAY FOR THE SANITARY SEWER. IF AN AIR TEST IS USED, THE TEST AS A MINIMUM SHALL CONFORM TO THE PROCEDURE DESCRIBED IN ASTM DESIGNATION C828-86 ENTITLED PRACTICE FOR LOW-PRESSURE AIR TEST OF VITRIFIED CLAY PIPE LINES. SANITARY MANHOLES SHALL BE VISUALLY INSPECTED AND TESTED FOR LEAKAGE BY EXFILTRATION OR VACUUM. VACUUM TESTING OF MANHOLES SHALL COMPLY WITH THE METHOD OUTLINED IN THE NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION - TECHNICAL INFORMATION PAMPHLET (TIP) NO. 15 (LATEST REVISION).
2. FLOOR DRAINS, IF CONSTRUCTED IN THE PROJECT, MUST BE CONNECTED TO THE SANITARY SEWER. NOTE: FLOOR DRAINS DO NOT INCLUDE FOUNDATION OR FOOTER DRAINS INSTALLED TO INTERCEPT UNCONTAMINATED GROUND WATER. ALL DISCHARGES FROM THE FLOOR DRAINS TO THE SANITARY SEWER MUST COMPLY WITH THE EFFLUENT LIMITS OF THE LOCAL AND/OR THE MONROE COUNTY SEWER USE LAW.
3. DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXCEED A DEFLECTION OF 5%. IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID BALL OR MANDREL IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED WITHOUT MECHANICAL PULLING DEVICES.
4. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAINS AND SEWER LINES SHALL BE 18 INCHES MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. ONE FULL STANDARD LAYING LENGTH OF WATER MAIN PIPE SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. IN ADDITION, WHEN THE WATER MAIN PIPELINE PASSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWER TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING OF THE SEWER ON THE WATER MAIN. MINIMUM HORIZONTAL SEPARATION BETWEEN PARALLEL WATER MAINS PIPES AND SEWER PIPES (INCLUDING MANHOLES AND VAULTS) SHALL BE 10 FEET MEASURED FROM THE OUTSIDE OF THE PIPES, MANHOLES OR VAULTS.

UTILITY NOTES:

1. PRIOR TO THE START OF UTILITY INSTALLATION THE SITE CONTRACTOR (AND ANY SUBSITE CONTRACTORS) IS RESPONSIBLE FOR COORDINATION OF ALL UTILITY CONNECTIONS WITH MECHANICAL/ARCHITECTURAL DRAWINGS FOR INCLUDING BUT NOT LIMITED TO VERTICAL AND HORIZONTAL LOCATION, PENETRATIONS, AND SIZES. THE SITE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION OF COORDINATION WITH SITE CONTRACTORS AND PLANS.
2. THE SITE CONTRACTOR IS RESPONSIBLE FOR COORDINATING GAS, ELECTRICAL, CABLE, TELEPHONE AND ANY OTHER UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET WITH THE MECHANICAL/ELECTRICAL/PLUMBING PLAN SET AND THE APPROPRIATE AGENCY. PASSERO ASSOCIATES ASSUMES NO RESPONSIBILITY FOR THE DESIGN OR PERFORMANCE OF UTILITIES NOT SPECIFICALLY SHOWN WITHIN THIS PLAN SET.
3. PRIOR TO THE START OF UTILITY INSTALLATION THE SITE CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES VERTICALLY AND HORIZONTALLY AND COORDINATE WITH EXISTING UTILITIES SHOWN ON THE PLANS AND REPORT ANY DISCREPANCIES TO THE DESIGN ENGINEER. THE SITE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH UTILITY INSTALLATION BY THE OWNER'S ONSITE REPRESENTATIVE UPON COMPLETION OF EXISTING UTILITY VERIFICATION.
4. UTILITY CROSSINGS THE SITE CONTRACTOR SHALL EXCAVATE AND VERIFY THE LOCATION OF EXISTING UTILITIES AT ALL PROPOSED CROSSINGS AND NOTIFY THE OWNERS ONSITE REPRESENTATIVE OF ANY CONFLICTS PRIOR TO UTILITY INSTALLATION. THE SITE CONTRACTOR SHALL OBTAIN WRITTEN PERMISSION TO PROCEED WITH INSTALLATION UPON UTILITY VERIFICATION COMPLETION.
5. FLUSH EXISTING STORM SEWER THE SITE CONTRACTOR SHALL FLUSH THE EXISTING STORM SEWER PRIOR TO PROJECT COMPLETION FOR REVIEW.
6. LATERALS ALL STORM, SANITARY, WATER ETC. LATERALS SHALL BE CONSTRUCTED TO 5' FROM THE FACE OF THE BUILDING, VERTICAL AND HORIZONTAL LOCATION SHALL BE COORDINATED WITH THE PLUMBING/MEP SITE CONTRACTORS.

STANDARD WATER MAIN EXTENSION NOTES:

WATER DISTRIBUTION SYSTEM MAY NOT BE PLACED INTO SERVICE UNTIL AN APPROVAL OF COMPLETED WORKS IS ISSUED BY THE ULSTER COUNTY DEPARTMENT OF HEALTH.

WATER MAINS AND APPURTENANCES TO BE CONSTRUCTED IN ACCORDANCE WITH THE REGULATIONS AND SPECIFICATIONS OF THE ULSTER COUNTY DEPARTMENT OF HEALTH:

MATERIAL

1. WATER MAIN(S) SHALL BE 8 INCH PVC MEETING AWWA STANDARD C900.
2. WATER METER(S) AND BACKFLOW PREVENTION DEVICES SHALL BE LOCATED ON THE INTERIOR OF EACH BUILDING.
3. ALL GATE VALVES SHALL HAVE STAINLESS STEEL BODY AND BONNET BOLTS.

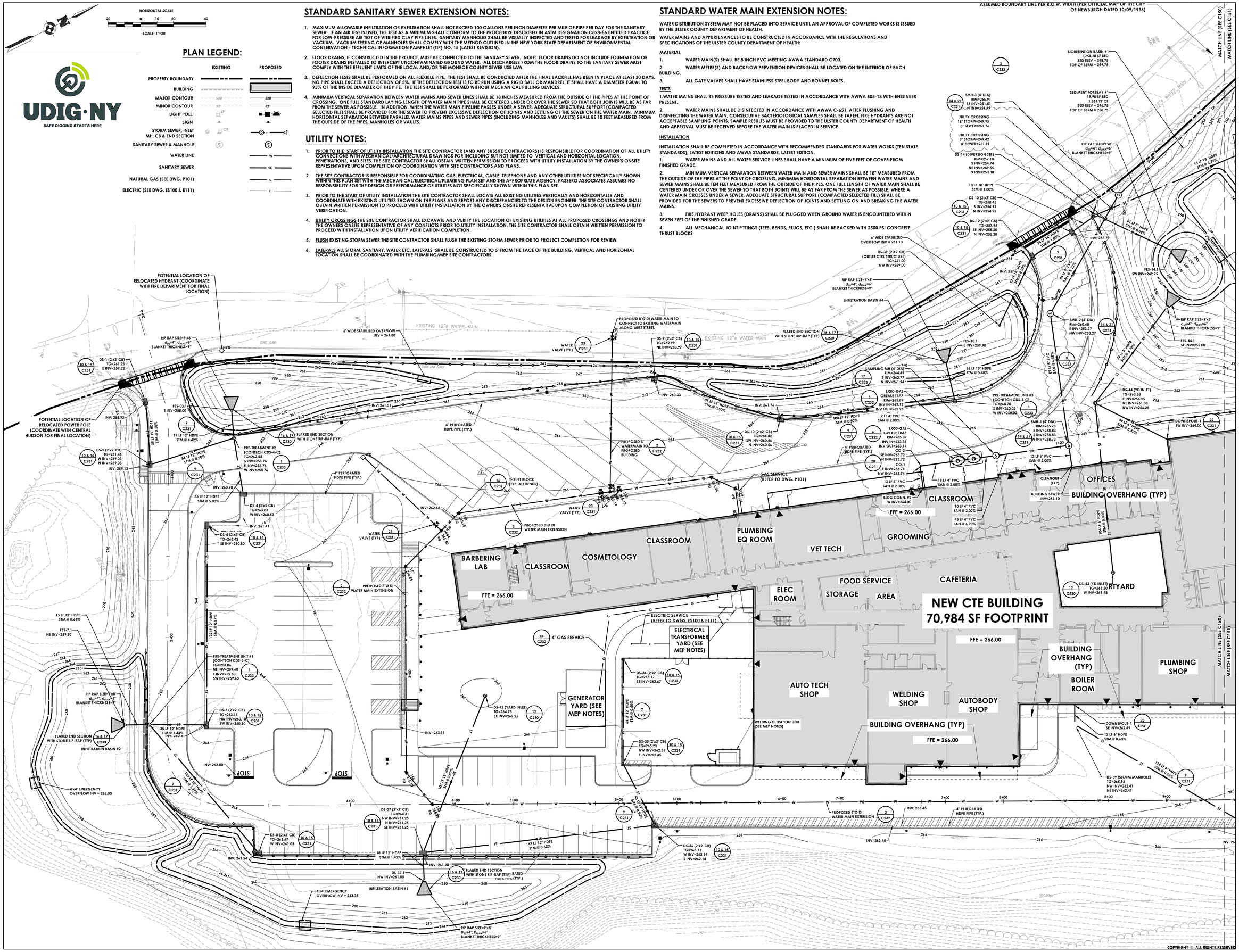
TESTS

1. WATER MAINS SHALL BE PRESSURE TESTED AND LEAKAGE TESTED IN ACCORDANCE WITH AWWA 605-13 WITH ENGINEER PRESENT.
2. WATER MAINS SHALL BE DISINFECTED IN ACCORDANCE WITH AWWA C-651. AFTER FLUSHING AND DISINFECTING THE WATER MAIN, CONSECUTIVE BACTERIOLOGICAL SAMPLES SHALL BE TAKEN. FIRE HYDRANTS ARE NOT ACCEPTABLE SAMPLING POINTS. SAMPLE RESULTS MUST BE PROVIDED TO THE ULSTER COUNTY DEPARTMENT OF HEALTH AND APPROVAL MUST BE RECEIVED BEFORE THE WATER MAIN IS PLACED IN SERVICE.

INSTALLATION

INSTALLATION SHALL BE COMPLETED IN ACCORDANCE WITH RECOMMENDED STANDARDS FOR WATER WORKS (TEN STATE STANDARDS), LATEST EDITIONS AND AWWA STANDARDS, LATEST EDITION.

1. WATER MAINS AND ALL WATER SERVICE LINES SHALL HAVE A MINIMUM OF FIVE FEET OF COVER FROM FINISHED GRADE.
2. MINIMUM VERTICAL SEPARATION BETWEEN WATER MAIN AND SEWER MAINS SHALL BE 18" MEASURED FROM THE OUTSIDE OF THE PIPES AT THE POINT OF CROSSING. MINIMUM HORIZONTAL SEPARATION BETWEEN WATER MAINS AND SEWER MAINS SHALL BE TEN FEET MEASURED FROM THE OUTSIDE OF THE PIPES. ONE FULL LENGTH OF WATER MAIN SHALL BE CENTERED UNDER OR OVER THE SEWER SO THAT BOTH JOINTS WILL BE AS FAR FROM THE SEWER AS POSSIBLE. WHERE A WATER MAIN CROSSES UNDER A SEWER, ADEQUATE STRUCTURAL SUPPORT (COMPACTED SELECTED FILL) SHALL BE PROVIDED FOR THE SEWERS TO PREVENT EXCESSIVE DEFLECTION OF JOINTS AND SETTLING ON AND BREAKING THE WATER MAINS.
3. FIRE HYDRANT WEEP HOLES (DRAINS) SHALL BE PLUGGED WHEN GROUND WATER IS ENCOUNTERED WITHIN SEVEN FEET OF THE FINISHED GRADE.
4. ALL MECHANICAL JOINT FITTINGS (TEES, BENDS, PLUGS, ETC.) SHALL BE BACKED WITH 2500 PSI CONCRETE THRUST BLOCKS



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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
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STATE OF NEW YORK
CHRISTOPHER J. LAURIA
102597
LICENSED PROFESSIONAL ENGINEER

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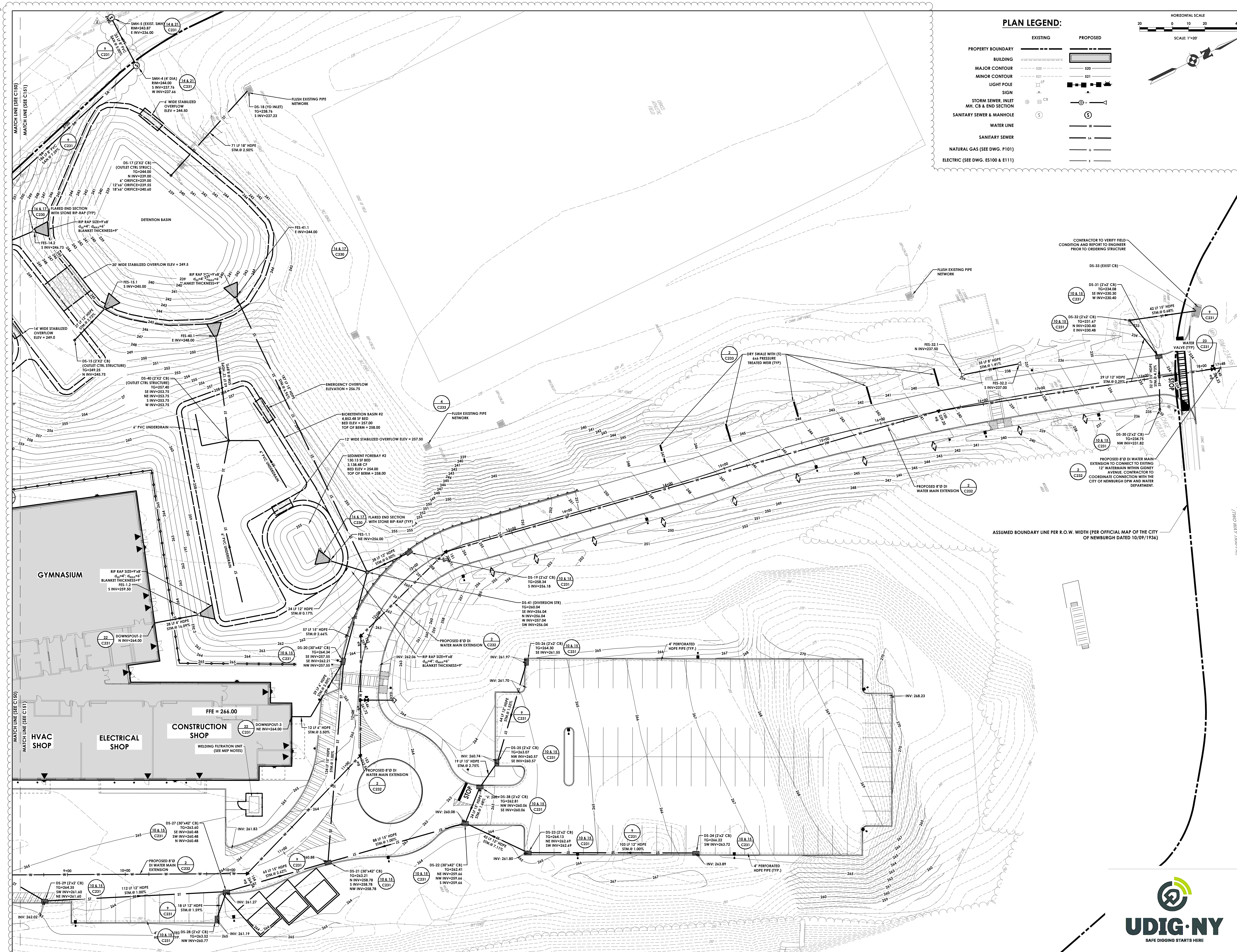
Sheet Title

UTIILTY PLAN

Sheet No.

CTE C150

CONSTRUCTION DOCUMENTS



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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK · CHRISTOPHER J. LAPORTA · 102592 · LICENSED PROFESSIONAL ENGINEER

	DATE	DESCRIPTION
3	5/13/2024	BID ADDENDUM #3
2	5/3/2024	BID ADDENDUM #2

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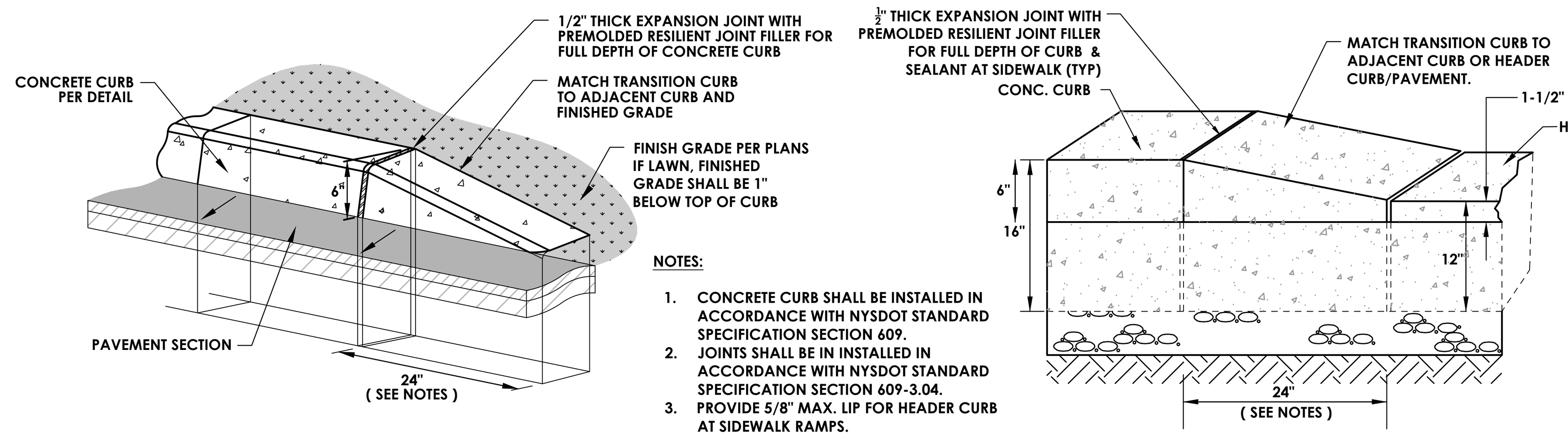
Sheet Title

UTIILTY PLAN

Sheet No.

CTE C151

CONSTRUCTION DOCUMENTS

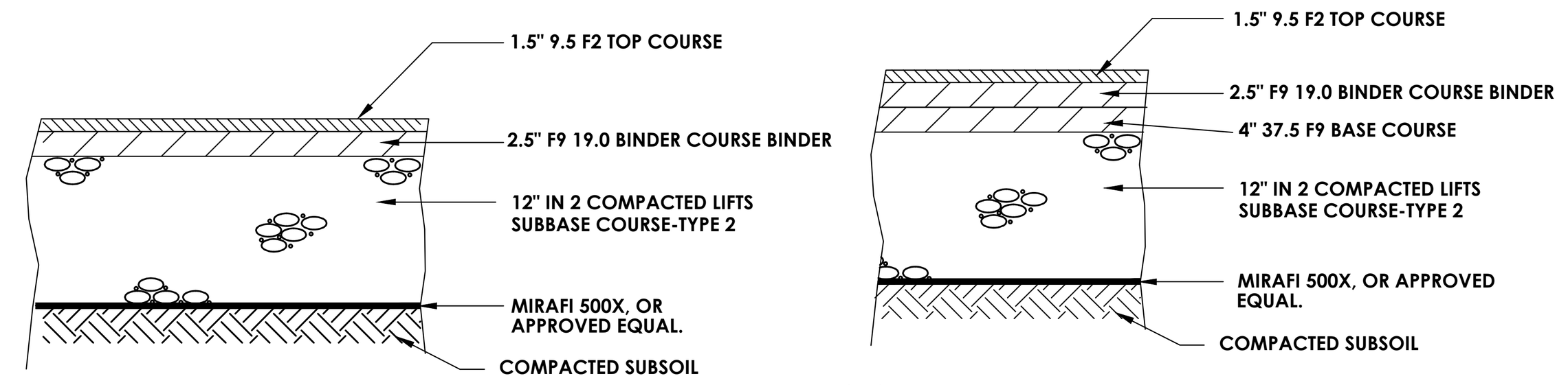


NOTES:

1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. JOINTS SHALL BE IN INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609-3.04.
3. PROVIDE 5/8" MAX. LIP FOR HEADER CURB AT SIDEWALK RAMPS.
4. TRANSITION CURB LENGTHS SHALL BE 24" OR AS INDICATED IN THE DRAWINGS.

1 TRANSITION CURB TO GRADE

N.T.S.



NOTES:

1. ALL DEPTHS ARE COMPACTED THICKNESSES.
2. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE INCORFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, "LATEST VERSION" AND ALL ADDENDA THERE TO.
3. WHEN SPECIFIED OR REQUIRED BY THE REFERENCED SPECIFICATIONS, TACK COAT SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATION.
4. BINDER COURSE SHALL BE SWEPT CLEAR TO REMOVE ANY LOOSE MATERIAL PRIOR TO PLACING TOP COAT. IF TOP COURSE IS NOT PLACED WITHIN TWENTY FOUR HOURS OF BINDER PLACEMENT, A TACK COAT SHALL BE APPLIED TO CLEAN SURFACE PRIOR TO PLACEMENT OF TOP COURSE.

STANDARD DUTY PAVEMENT

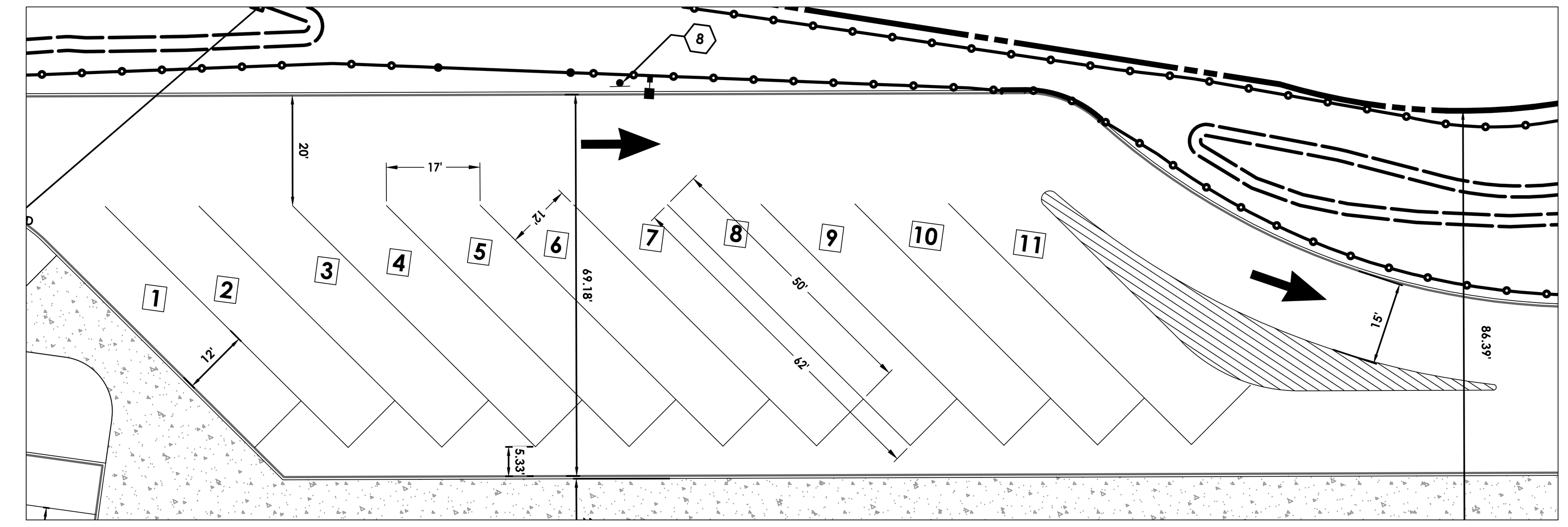
NOTES:

1. ALL DEPTHS ARE COMPACTED THICKNESSES.
2. MATERIALS AND METHODS OF CONSTRUCTION SHALL BE INCORFORMANCE WITH THE NEW YORK STATE DEPARTMENT OF TRANSPORTATION (NYSDOT) STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MATERIALS, "LATEST VERSION" AND ALL ADDENDA THERE TO.
3. WHEN SPECIFIED OR REQUIRED BY THE REFERENCED SPECIFICATIONS, TACK COAT SHALL CONFORM WITH SECTION 407-TACK COAT OF THE ABOVE REFERENCED NYSDOT STANDARD SPECIFICATION.
4. BINDER COURSE SHALL BE SWEPT CLEAR TO REMOVE ANY LOOSE MATERIAL PRIOR TO PLACING TOP COAT. IF TOP COURSE IS NOT PLACED WITHIN TWENTY FOUR HOURS OF BINDER PLACEMENT, A TACK COAT SHALL BE APPLIED TO CLEAN SURFACE PRIOR TO PLACEMENT OF TOP COURSE.

HEAVY DUTY PAVEMENT

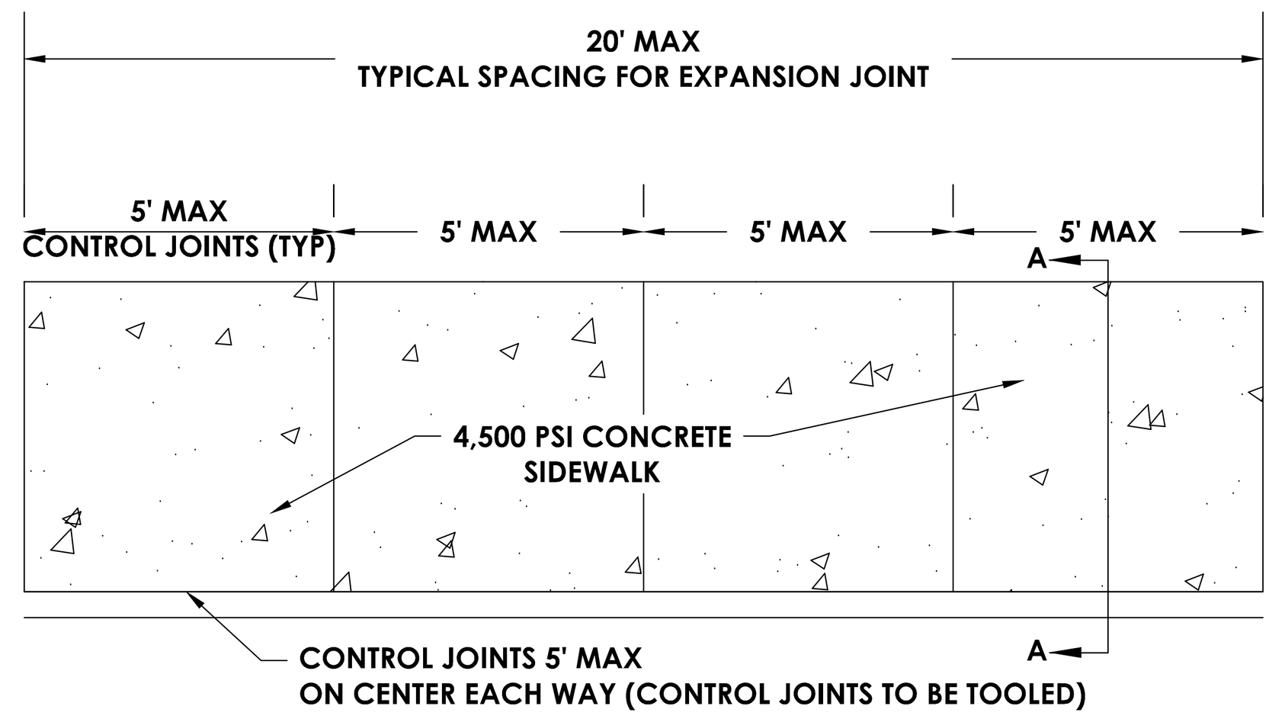
2 PAVEMENT SECTION

N.T.S.



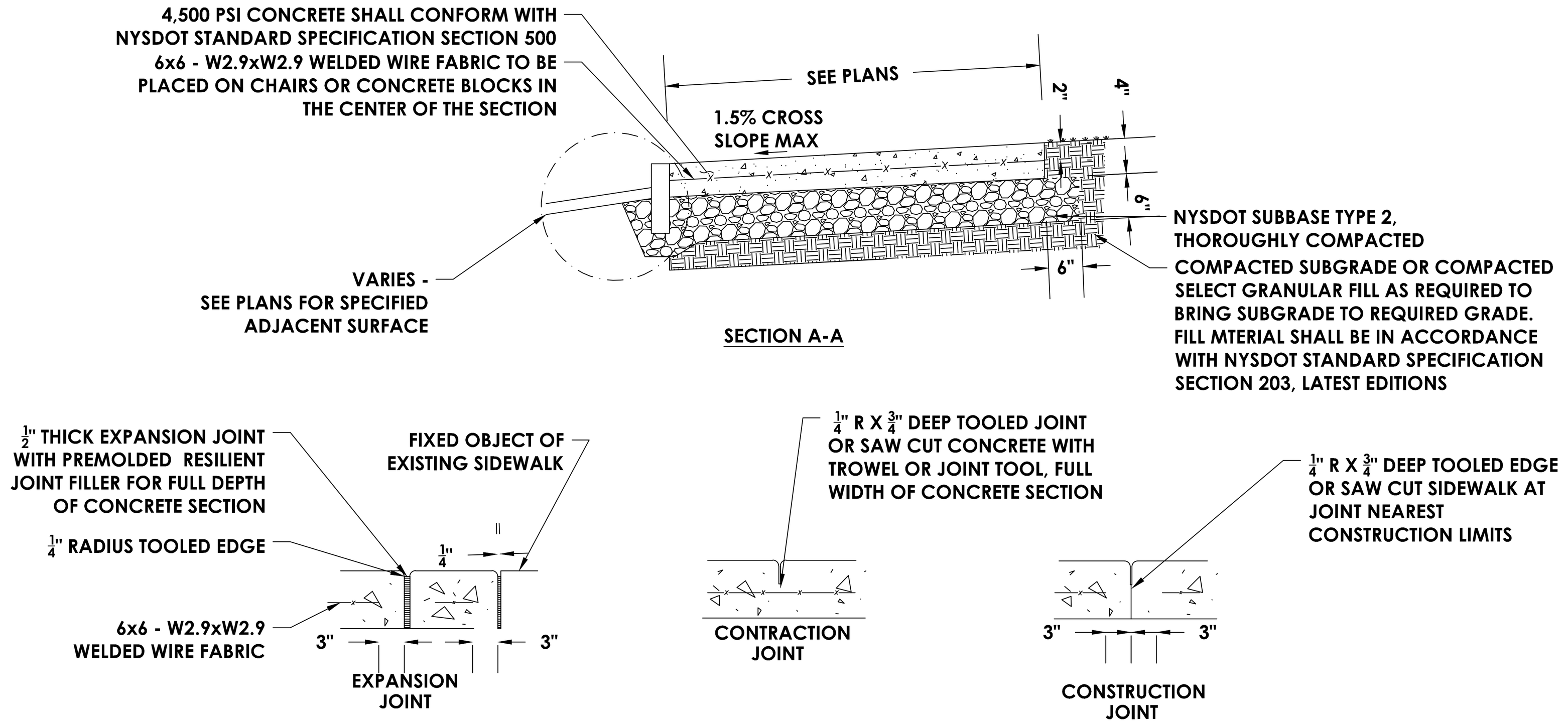
3 BUS LOOP PARKING PAVEMENT MARKING LAYOUT

SCALE: 1"=20'



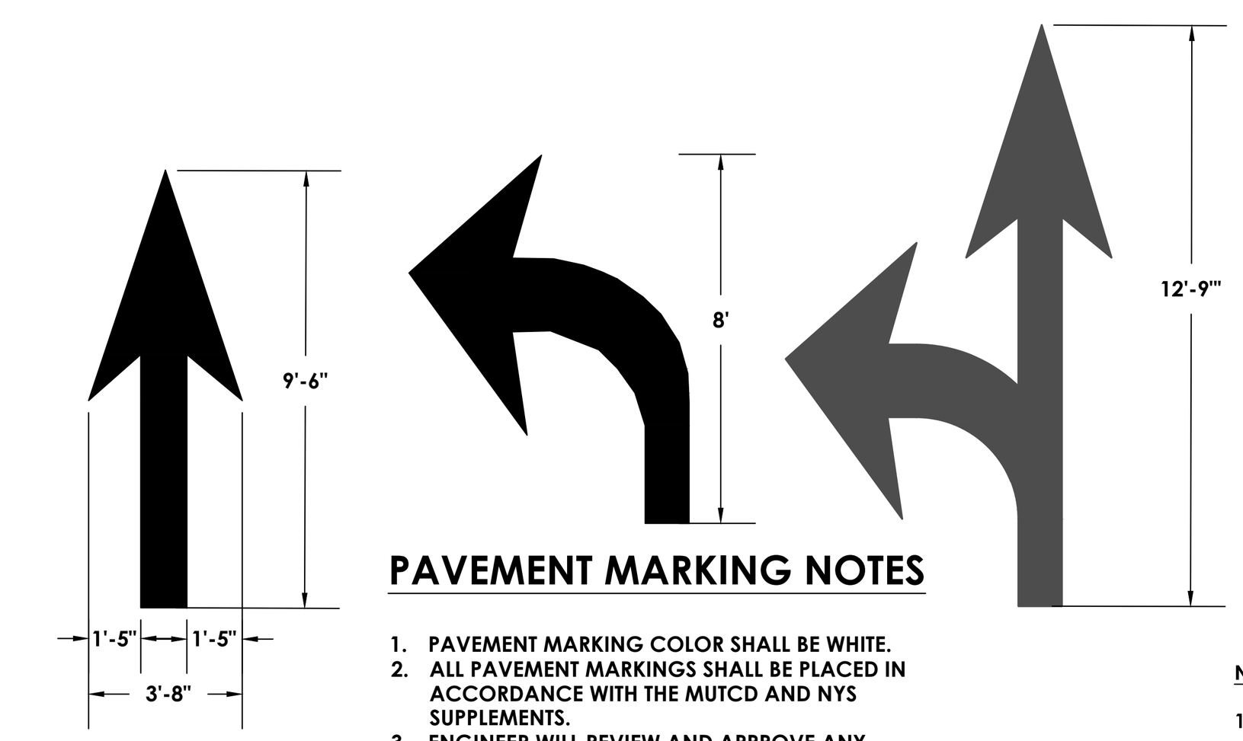
NOTES:

1. SIDEWALK WIDTH SHALL BE MEASURED FROM THE BACK OF THE CURB UNLESS OTHERWISE SPECIFIED.
2. WHERE IT IS NECESSARY TO PLACE FILL FOR PURPOSE OF BRINGING THE SUBGRADE ELEVATION UP TO A SPECIFIED GRADE. THE FILL MATERIAL PLACED SHALL BE IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 203, LATEST EDITION
3. NYSDOT SUBBASE TYPE 2 SHALL CONFORM TO NYSDOT STANDARD SPECIFICATION SECTION 304, LATEST EDITION.
4. CONCRETE SHALL NOT BE PLACE UNLESS THE AMBIENT AIR SURFACE TEMPERATURE IS ABOVE 40 DEGREES UNLESS DISCUSSED WITH OWNER AND ENGINEER.
5. SIDEWALKS SHALL HAVE A CROSS SLOPE OF 1.5% PER FOOT UNLESS OTHERWISE SPECIFIED ON THE PLANS.
6. ALL EXPOSED CONCRETE SURFACES SHALL BE BROOM FNISHED AND THE EDGES SHALL BE FINISHED WITH A 1.5" RADIUS EDGING TOOL. THE FINISHED CONCRETE
7. SURFACE SHALL BE TREATED WITH CONCRETE SEALER, HARDENER AND DUSTPROOFER. RATE AND METHOD OF APPLICATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.



4 TYPICAL SIDEWALK DETAIL

N.T.S.

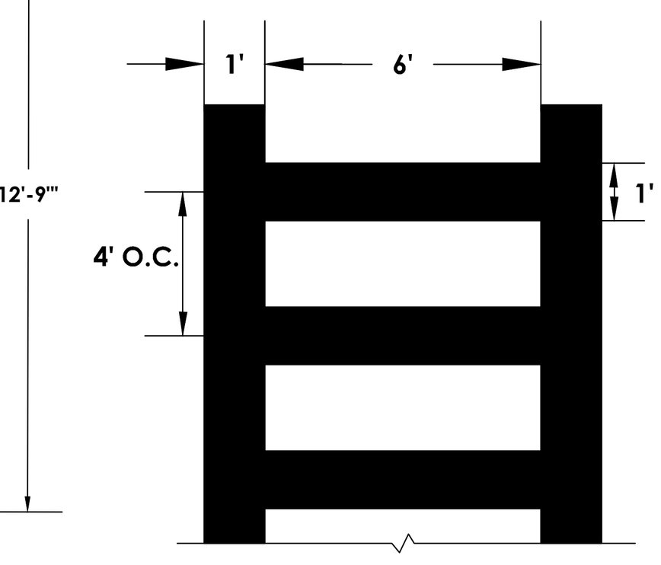


PAVEMENT MARKING NOTES

1. PAVEMENT MARKING COLOR SHALL BE WHITE.
2. ALL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH THE MUTCD AND NYS SUPPLEMENTS.
3. ENGINEER WILL REVIEW AND APPROVE ANY CHANGES TO THE PAVEMENT MARKING PLANS PRIOR TO FINAL INSTALLATION. CHANGES SHALL BE SUBMITTED PRIOR TO INSTALLATION.

5 DIRECTIONAL ARROW PAVEMENT MARKING DETAIL

N.T.S.

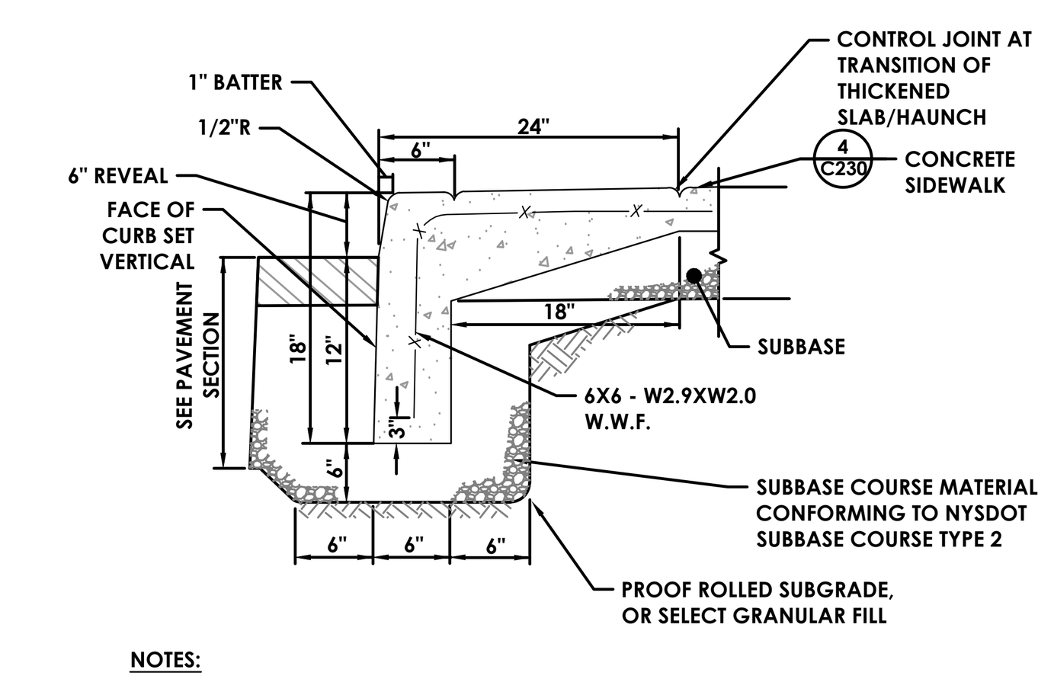


NOTE:

1. CROSSWALK COLOR SHALL BE WHITE.

6 CROSSWALK DETAIL

N.T.S.

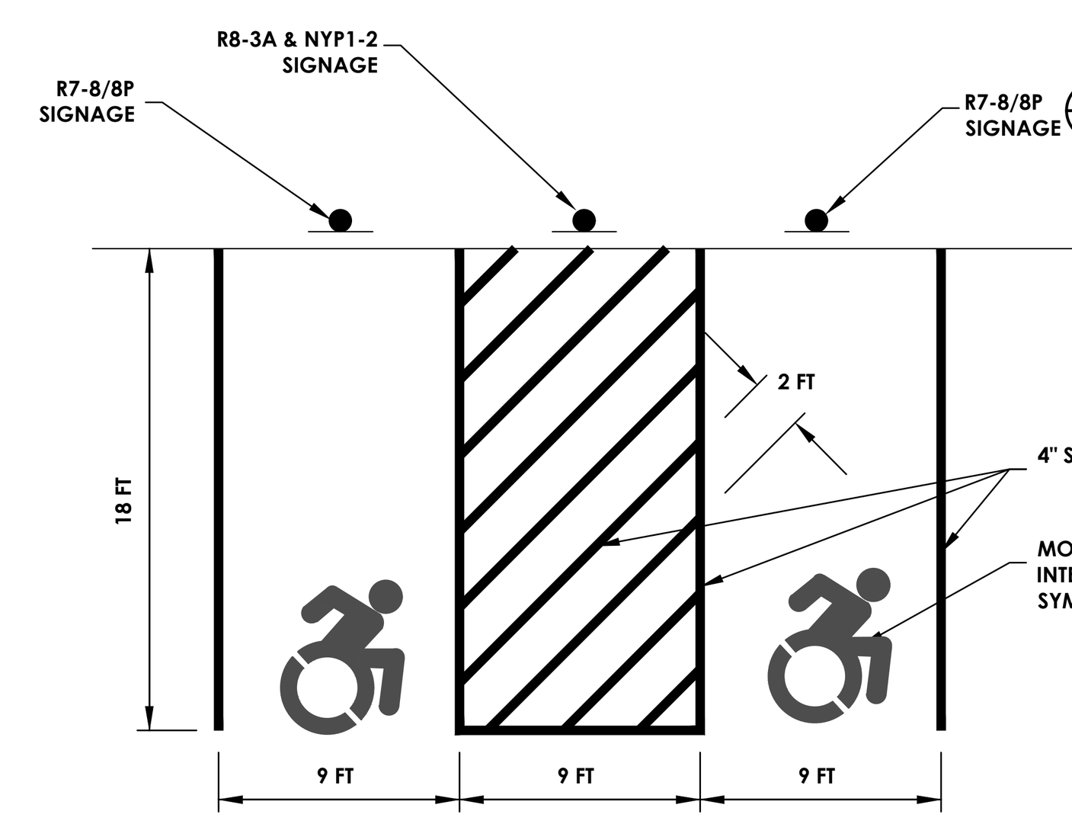


NOTES:

1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. SEE CONCRETE SIDEWALK DETAIL FOR ADDITIONAL DETAILS AND NOTES.

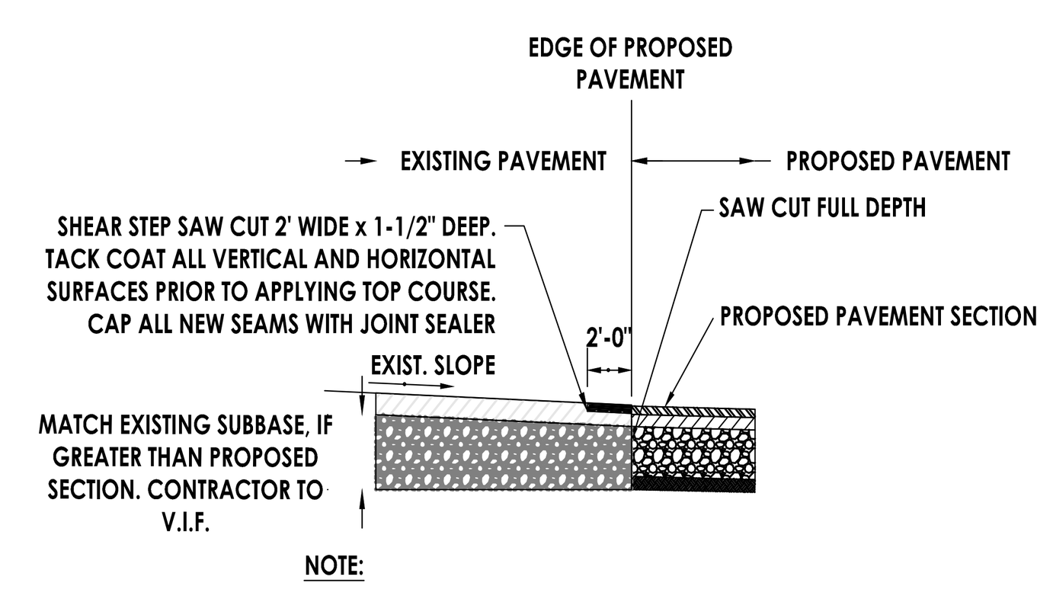
7 INTEGRAL CONCRETE CURB & SIDEWALK

N.T.S.



8 ACCESSIBLE PARKING SPACE PAVEMENT MARKING DETAIL

N.T.S.



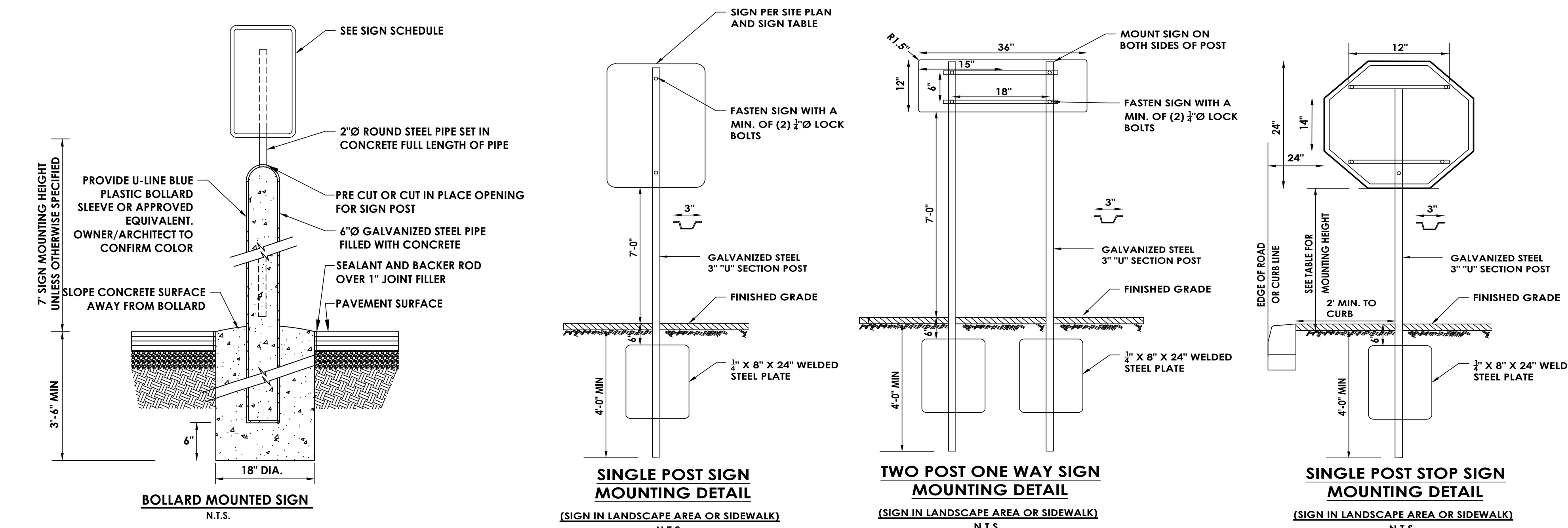
NOTE:

1. SCARIFY AND REMOVE EXISTING PAVEMENT EQUIVALENT TO PROPOSED TOP COURSE THICKNESS.

9 PAVEMENT KEY DETAIL

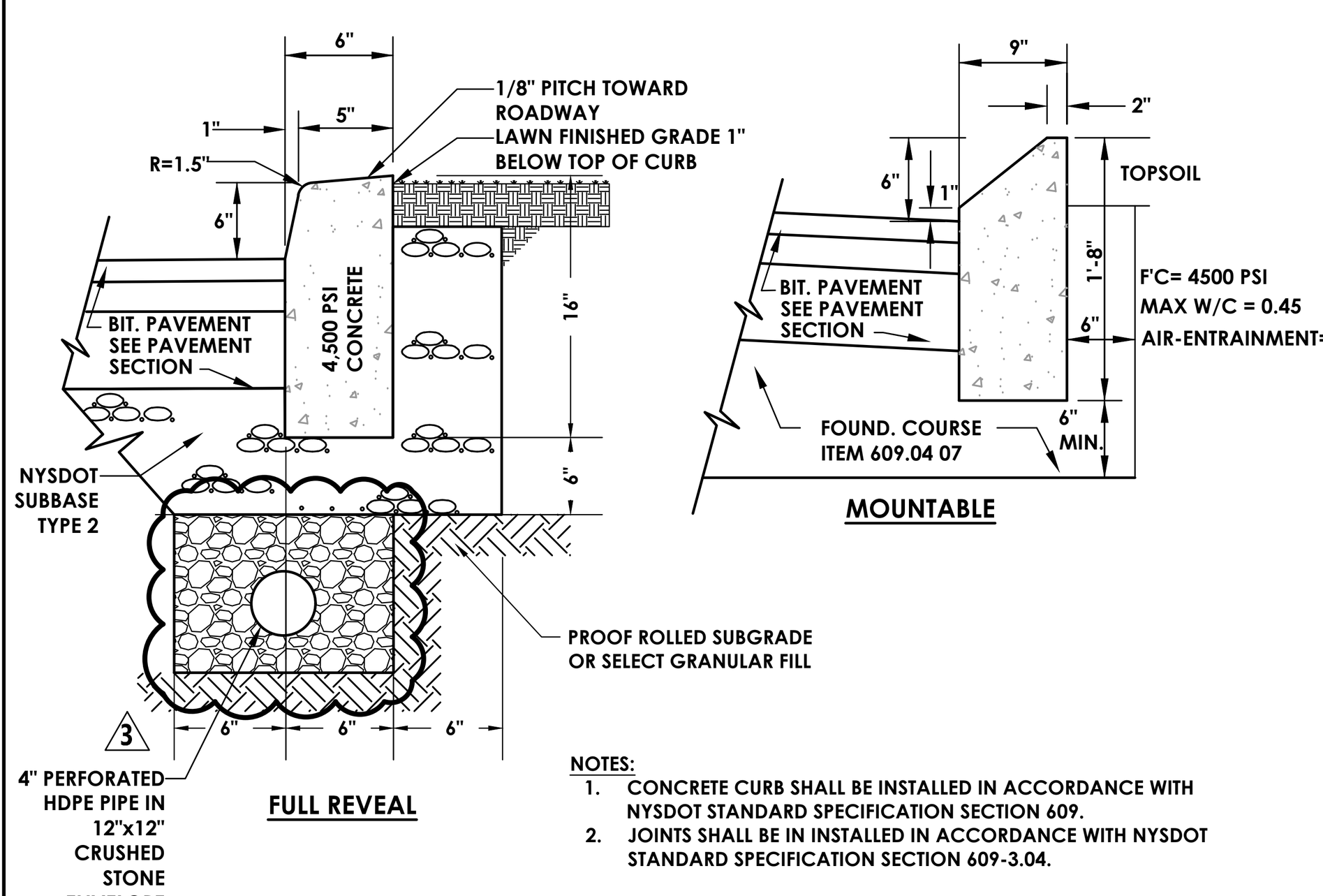
(CONNECTION TO EXISTING ASPH)

N.T.S.



10 SIGN MOUNTING DETAIL

N.T.S.

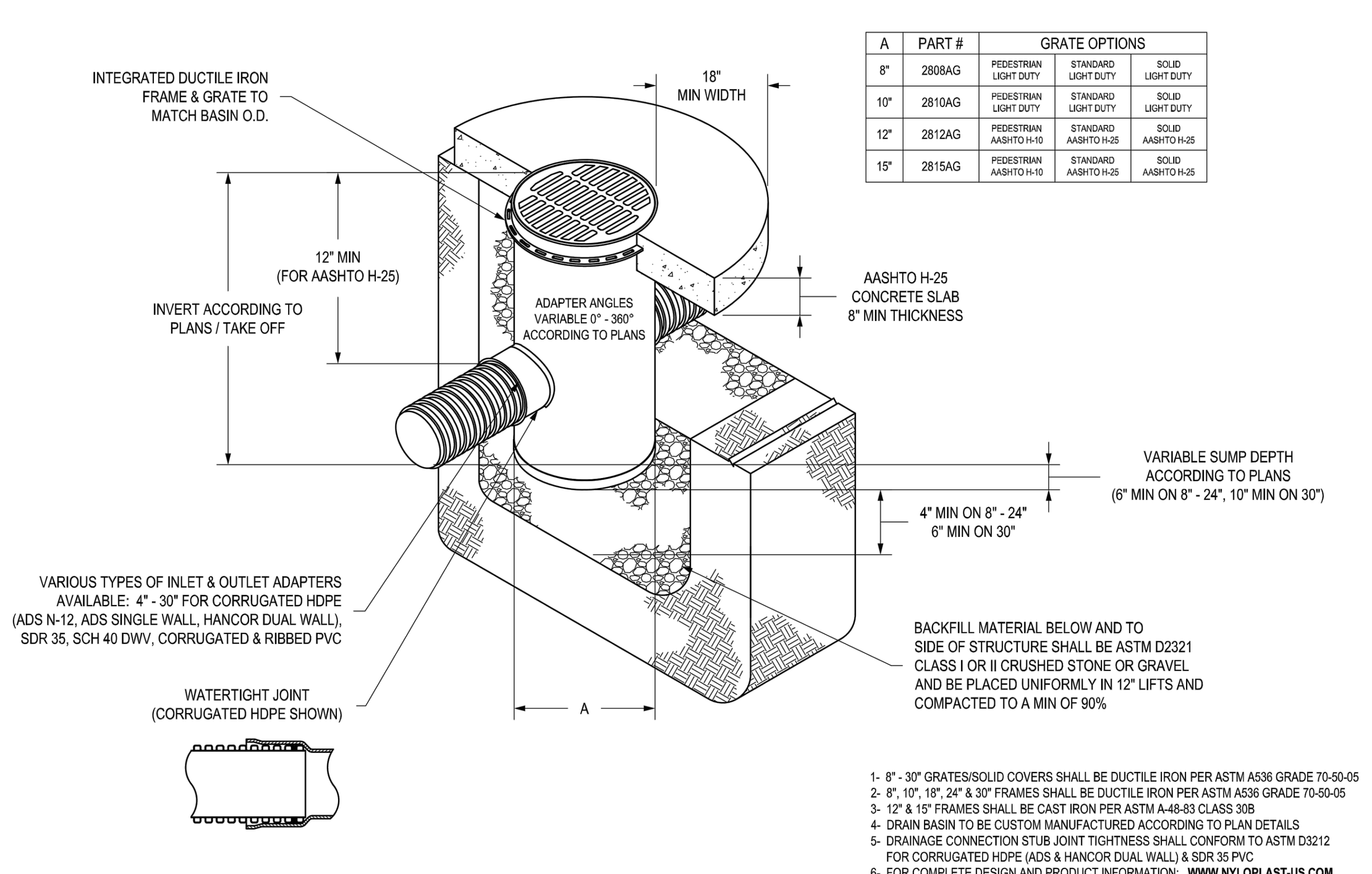


NOTES:

1. CONCRETE CURB SHALL BE INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609.
2. JOINTS SHALL BE IN INSTALLED IN ACCORDANCE WITH NYSDOT STANDARD SPECIFICATION SECTION 609-3.04.

11 CONCRETE CURB DETAIL

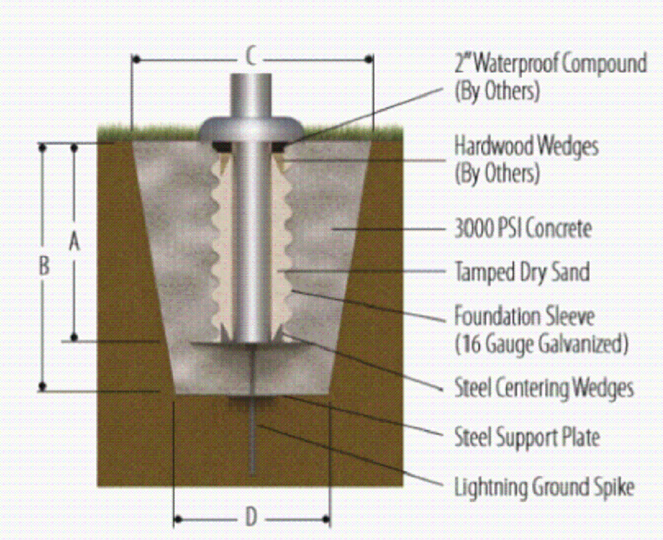
N.T.S.



12 NYLOPLAST YARD DRAIN DETAIL

N.T.S.

GROUND SLEEVE WITH STEEL LIGHTNING SPIKE INSTALLATION



Ground Set

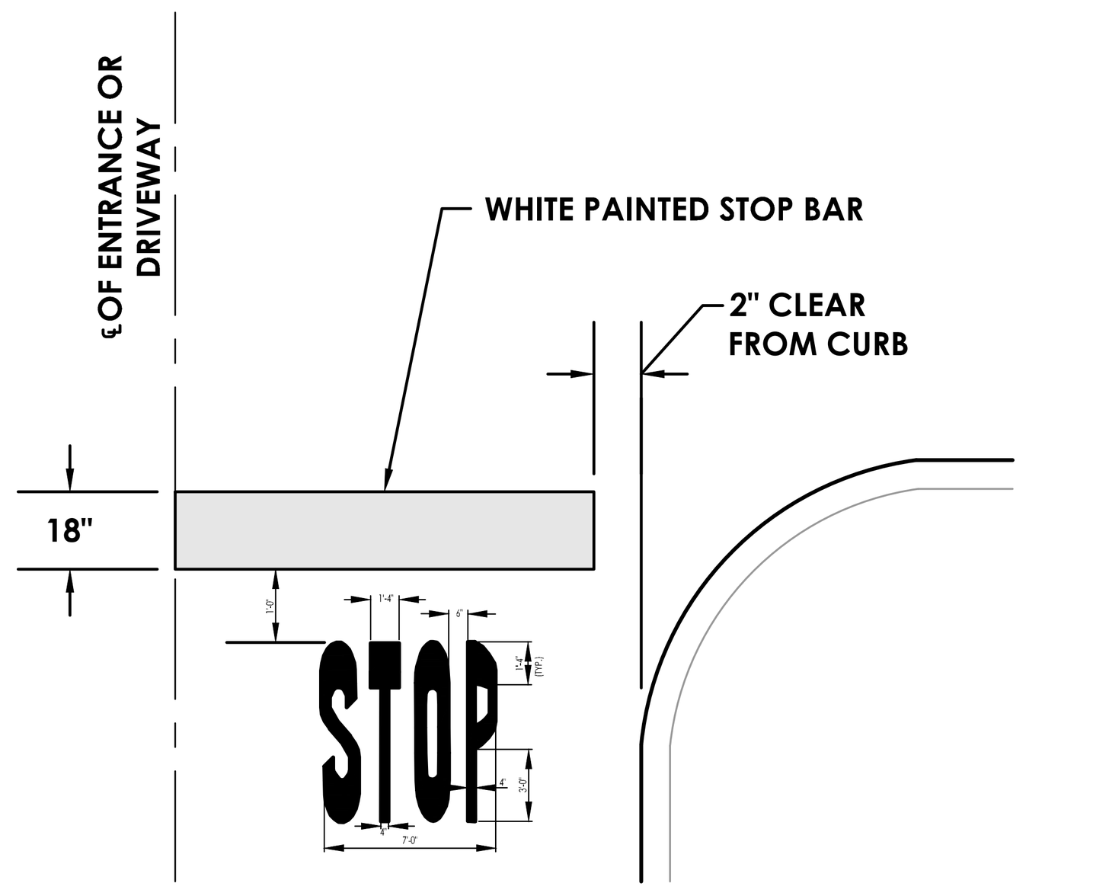
Exposed Mounting Height	A	B	C	D
20'-0"	2'-0"	2'-6"	30"	24"
25'-0"	2'-6"	3'-0"	36"	24"
30'-0"	3'-0"	3'-6"	36"	24"
35'-0"	3'-6"	4'-0"	36"	30"
40'-0"	4'-0"	4'-6"	45"	36"
45'-0"	4'-6"	5'-0"	45"	36"
50'-0"	5'-0"	5'-6"	50"	42"
60'-0"	6'-0"	6'-6"	60"	48"
70'-0"	7'-0"	7'-6"	60"	48"
80'-0"	8'-0"	8'-6"	72"	48"

NAAMM's Metal Flagpole Manual offers basic suggestions on foundation measurements in firm, dry soil only using dry tamped sand and 3000 PSI concrete. Soil conditions vary by site. Exact foundation requirements should be verified by a Structural Engineer with knowledge of soil conditions in your locality.

NOTE:
APPROVED EQUALS ARE ACCEPTABLE

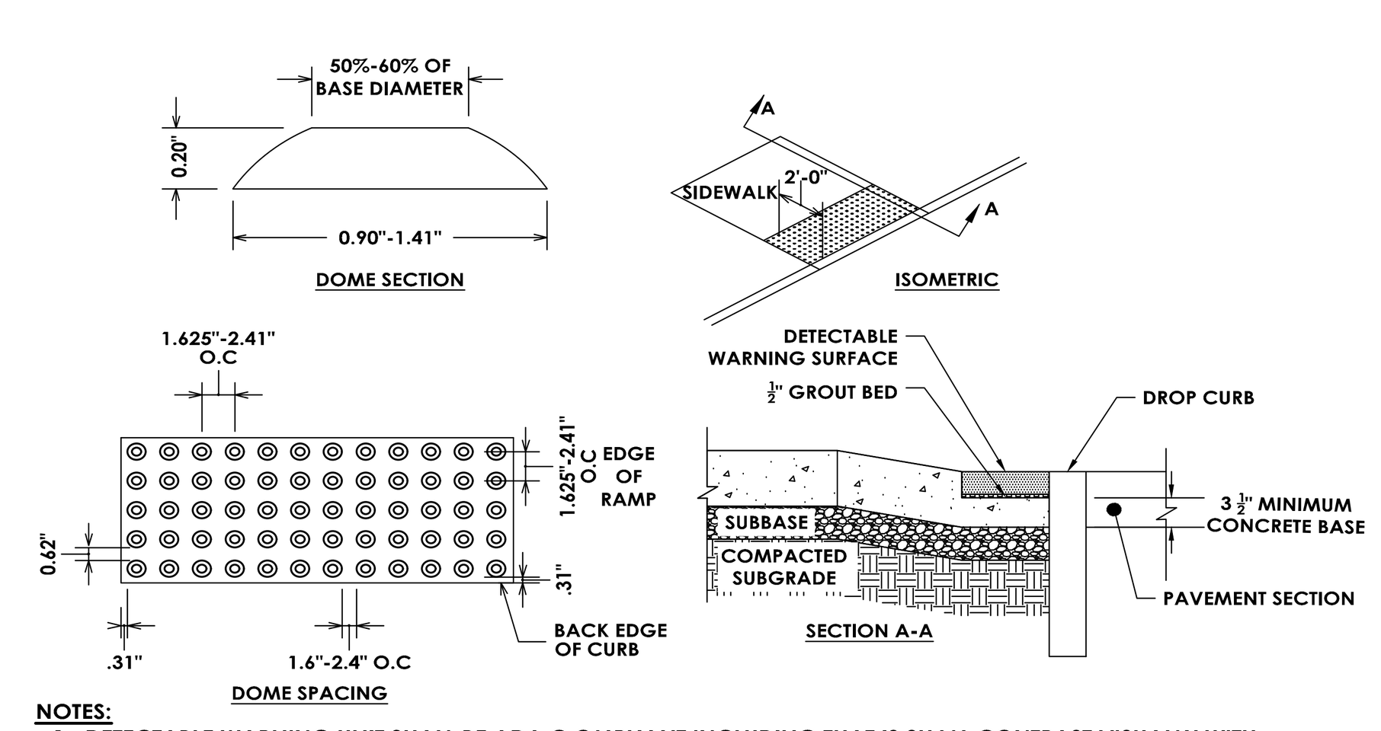
13 FLAG POLE BASE

N.T.S.



14 STOP BAR DETAIL

N.T.S.

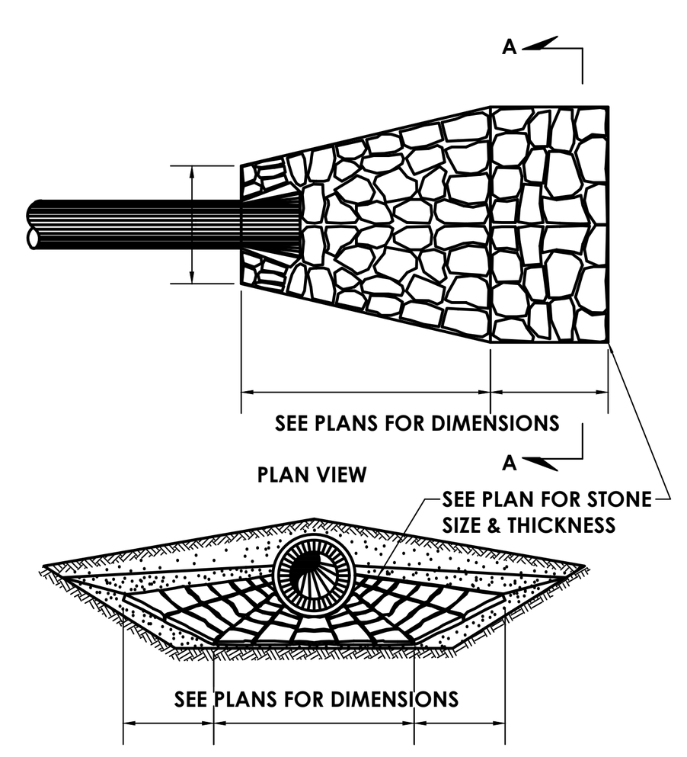


NOTES:

1. DETECTABLE WARNING UNIT SHALL BE ADA C OMPLIANT INCLUDING THAT IS SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES.
2. QUANTITY OF TRUNCATED DOMES SHOWN IS FOR ILLUSTRATIVE PURPOSES ONLY, TO DEPICT REQUIRED SQUARE GRID PATTERN.
3. TRUNCATED DOMES ARE TO BE ALIGNED IN SQUARE GRID PATTERN IN PREDOMINANT DIRECTION OF TRAVEL.
4. DETECTABLE WARNING SYSTEM FIELD IS TO BE 2 FEET DEEP, AND IS TO EXTEND ACROSS FULL WIDTH OF SIDEWALK ACCESS RAMP, BUT NOT UP SIDE FLARES.
5. DETECTABLE WARNING SYSTEM FIELD IS TO BE LOCATED SUCH THAT OUTER EDGE OF WARNING FIELD NEAREST TO STREET IS 2 TO 4 INCHES OFF BACK EDGE OF CURB.
6. COORDINATE COLOR WITH OWNER.

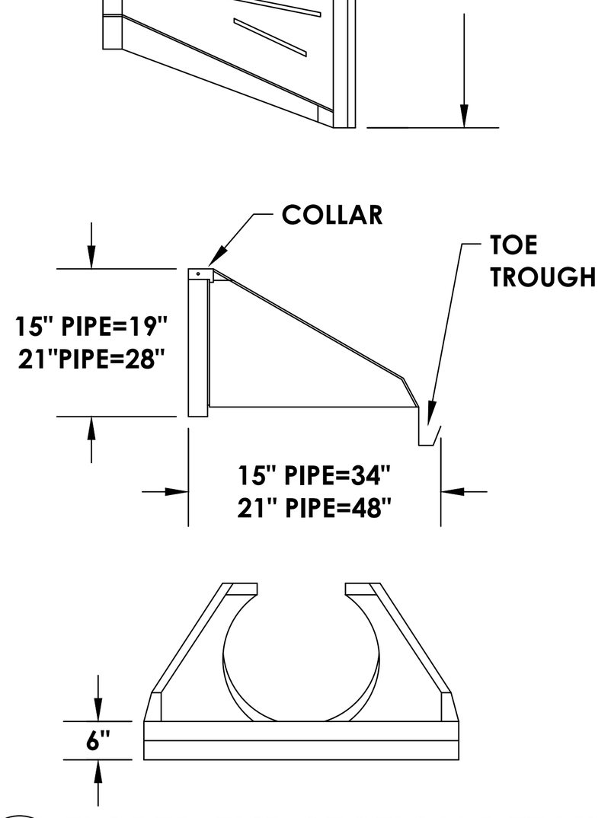
15 DETECTABLE WARNING SURFACE

N.T.S.



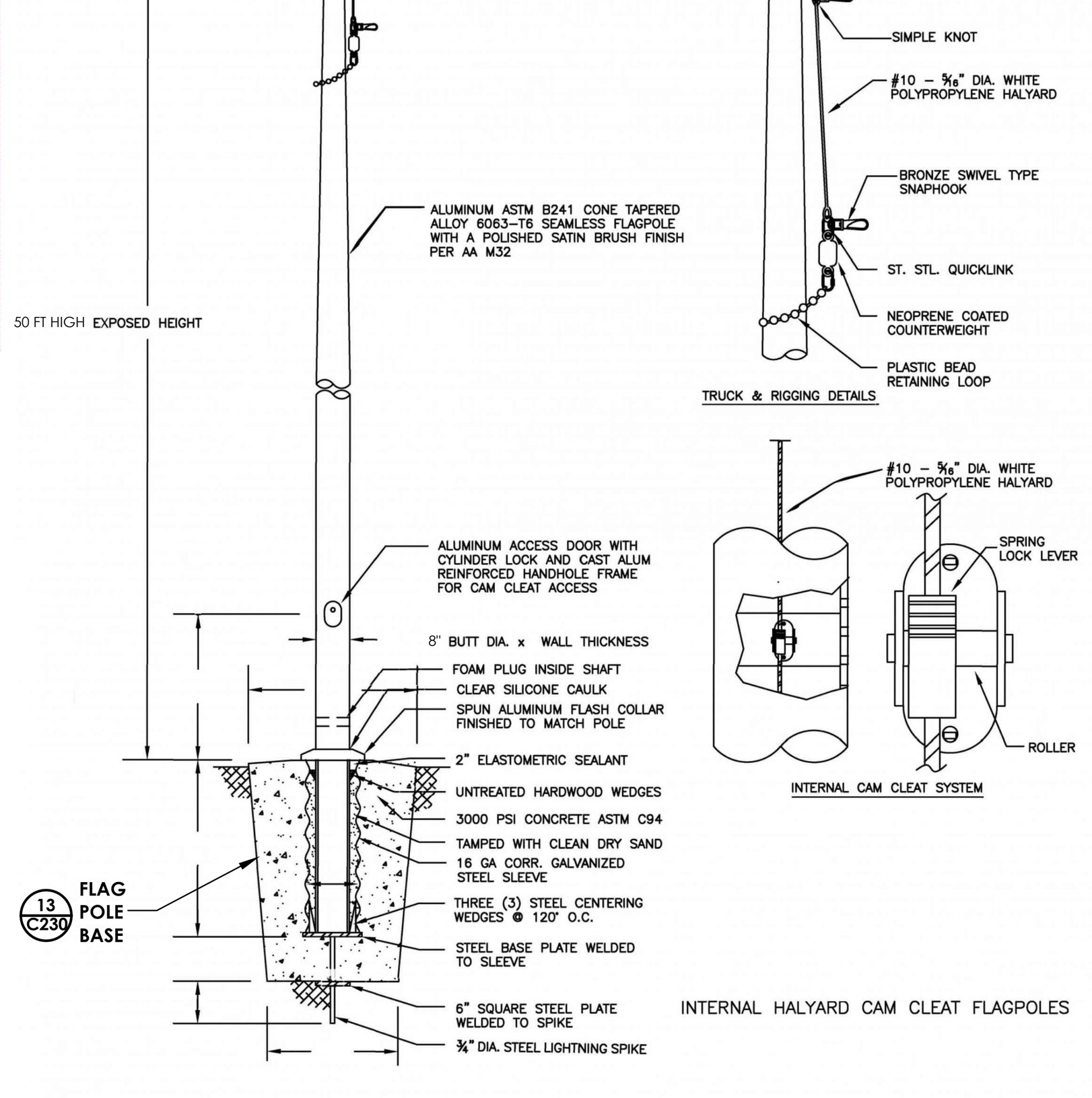
16 STONE RIP-RAP DETAIL

N.T.S.



17 FLARED END SECTION DETAIL

N.T.S.



18 FLAG POLE DETAIL

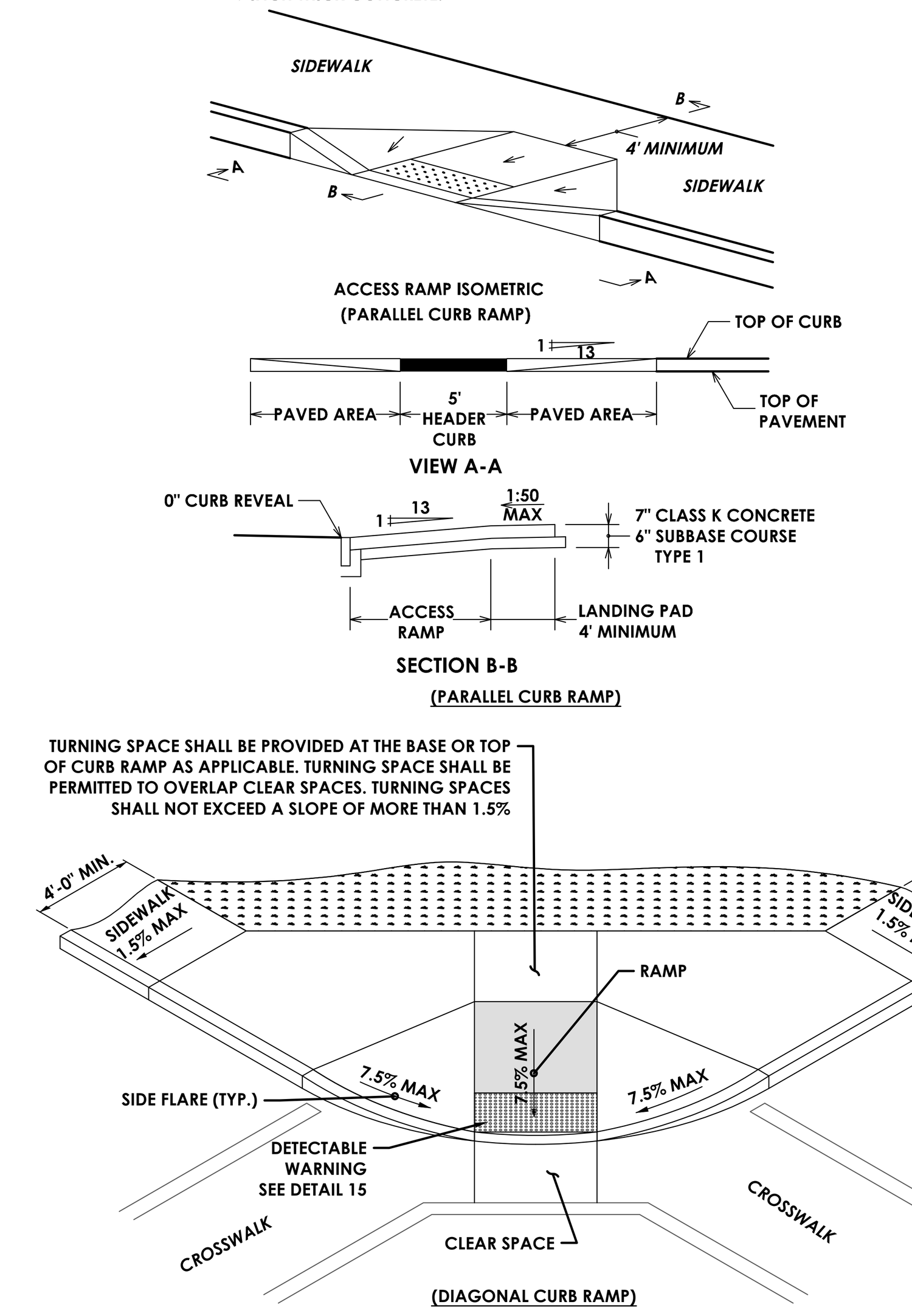
N.T.S.

NOTE:

1. BASIS OF DESIGN IS POLETECH PT508CIC. APPROVED EQUALS ARE ACCEPTABLE.
2. THREE RECESSED UP LIGHT FIXTURES SHALL BE PLACED AT A DISTANCE OF ONE THIRD OF THE FLAG POLE'S HEIGHT AWAY FROM THE CENTER OF THE POLE. LIGHTS SHALL BE SPACED 120 DEGREES APART.

NOTES:

1. 1:13 IS MAXIMUM SLOPE OF ACCESS RAMP AND SIDE FLARE IN PAVED AREA.
2. SURFACE OF ACCESS RAMP IS TO BE STABLE, FIRM AND SLIP-RESISTANT. TEXTURE SURFACE WITH COARSE BROOM RUNNING TRANSVERSE TO SLOPE OF ACCESS RAMP.
3. ENTIRE AREA OF ACCESS RAMP AND LANDING PAD IS TO BE 7 INCH THICK CONCRETE.



19 CURB RAMP DETAIL

N.T.S.

PASSERO engineering architecture
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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING
CTE NEWBURGH

STATE OF NEW YORK · CHRISTOPHER J. LAPORTA · 102592 · LICENSED PROFESSIONAL ENGINEER

3	5/13/2024	BID ADDENDUM #3
2	5/3/2024	BID ADDENDUM #2
	DATE	DESCRIPTION

Drawn By:	MP
Checked By:	SK
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CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

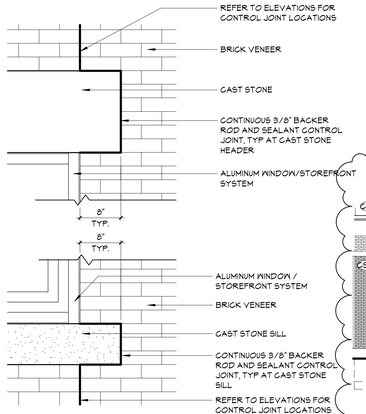
Sheet Title

SITE DETAILS

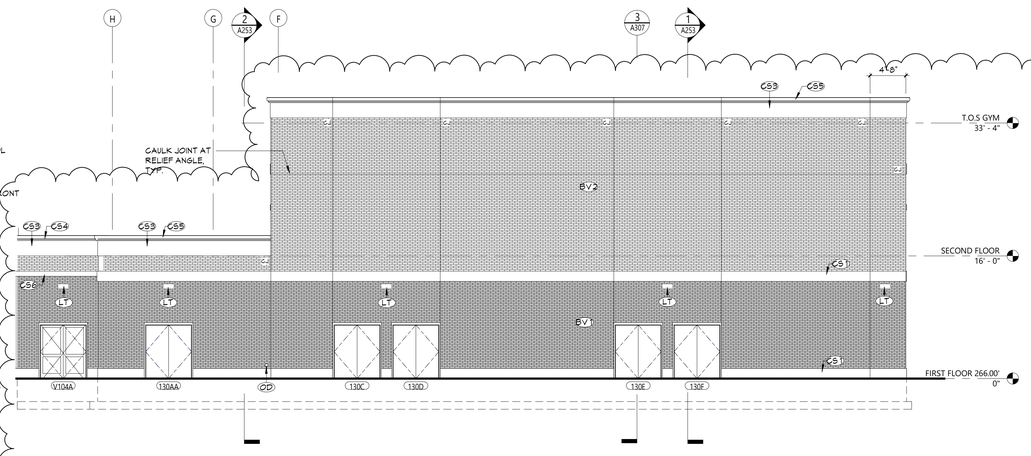
Sheet No.

CTE C230

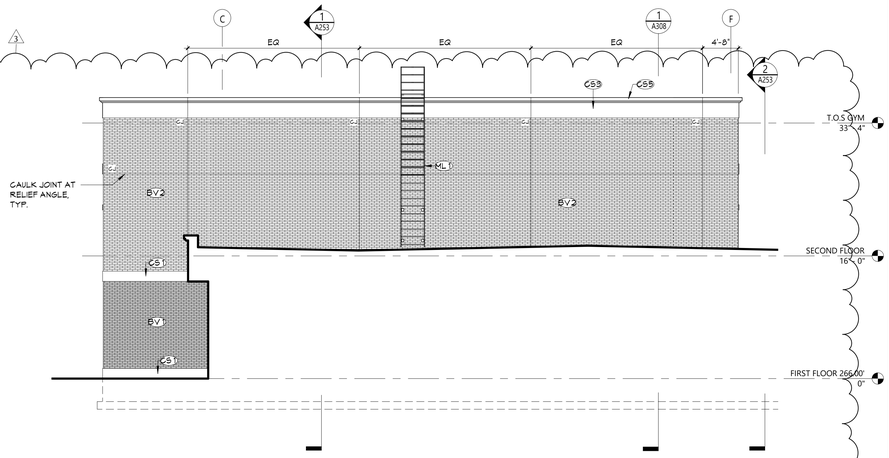
CONSTRUCTION DOCUMENTS



5 TYPICAL CJ DETAIL @ OPENING
A201 1" = 1'-0"



4 PARTIAL ELEVATION - NORTH FACADE - GYM
A201 1/8" = 1'-0"



3 PARTIAL ELEVATION - SOUTH FACADE - GYM
A201 1/8" = 1'-0"

2 PARTIAL ELEVATION - WEST FACADE - AREA 2
A201 1/8" = 1'-0"

1 PARTIAL ELEVATION - WEST FACADE - AREA 1
A201 1/8" = 1'-0"

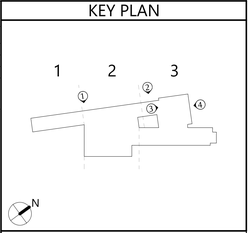
KEYNOTES

#	DESCRIPTION
A1	EXTERIOR SIGNAGE, TBD BY OWNER. PROVIDE WOOD BLOCKING IN WALL CONSTRUCTION AS REQUIRED FOR SIGNAGE MOUNTING.
BV1	BRICK VENEER, TYPE-1
BV2	BRICK VENEER, TYPE-2
CS1	CAST STONE PROFILE #1
CS2	CAST STONE PROFILE #2
CS3	CAST STONE PROFILE #3
CS4	CAST STONE PROFILE #4
CS5	CAST STONE PROFILE #5
CS6	CAST STONE PROFILE #6
HB	HOSE BIB, REFER TO PLUMBING DRAWINGS
LT	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
ML1	METAL ROOF LADDER WITH CAGE
OD	STORM DRAIN OUTLET, REFER TO PLUMBING DRAWINGS

KEYNOTES

#	DESCRIPTION
RC	MANUFACTURED CANOPY
SV	STONE VENEER
W1	ALL EXTERIOR GLAZING ON THE FIRST FLOOR TO BE SECURITY GLAZING. REFER TO A900 SHEETS FOR DETAILS.

KEY PLAN



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Consultant

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

REGISTERED ARCHITECT RICHARD L. PROCTOR STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION
1		BID Addendum #1

Drawn By:	CM
Checked By:	
Proj. #:	44-16-00-01-0-053-001
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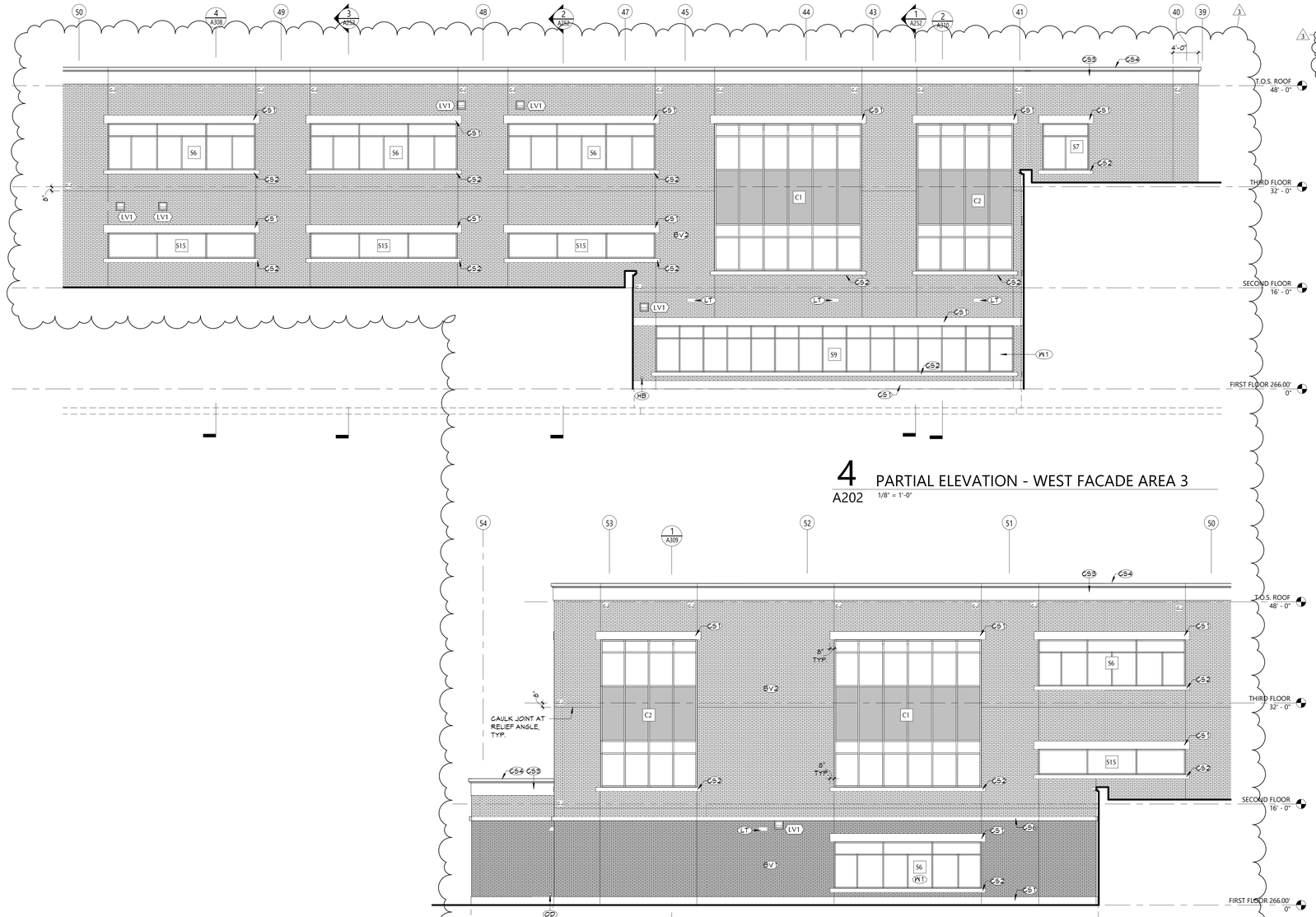
Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
CTE A201

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/108-2303 NECSD CTE - ARCH.rvt



4 PARTIAL ELEVATION - WEST FACADE AREA 3
A202 1/8" = 1'-0"

3 PARTIAL ELEVATION - WEST FACADE - AREA 3
A202 1/8" = 1'-0"

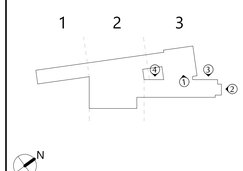
2 PARTIAL ELEVATION - NORTH FACADE - AREA 3
A202 1/8" = 1'-0"

1 PARTIAL ELEVATION - EAST FACADE - GYM
A202 1/8" = 1'-0"

KEYNOTES

#	DESCRIPTION
BV1	BRICK VENEER, TYPE-1
BV2	BRICK VENEER, TYPE-2
CS1	CAST STONE PROFILE #1
CS2	CAST STONE PROFILE #2
CS3	CAST STONE PROFILE #3
CS4	CAST STONE PROFILE #4
CS5	CAST STONE PROFILE #5
CS6	CAST STONE PROFILE #6
HB	HOSE BIB, REFER TO PLUMBING DRAWINGS
LT	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
ML1	METAL ROOF LADDER WITH CAGE
OD	STORM DRAIN OUTLET, REFER TO PLUMBING DRAWINGS
RG	MANUFACTURED CANOPY
W1	ALL EXTERIOR GLAZING ON THE FIRST FLOOR TO BE SECURITY GLAZING. REFER TO A900 SHEETS FOR DETAILS.

KEY PLAN



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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

REGISTERED ARCHITECT RICHARD L. PROSSER 021984 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION
1		BID Addendum #3

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CSArch Proj. #:	108-2303
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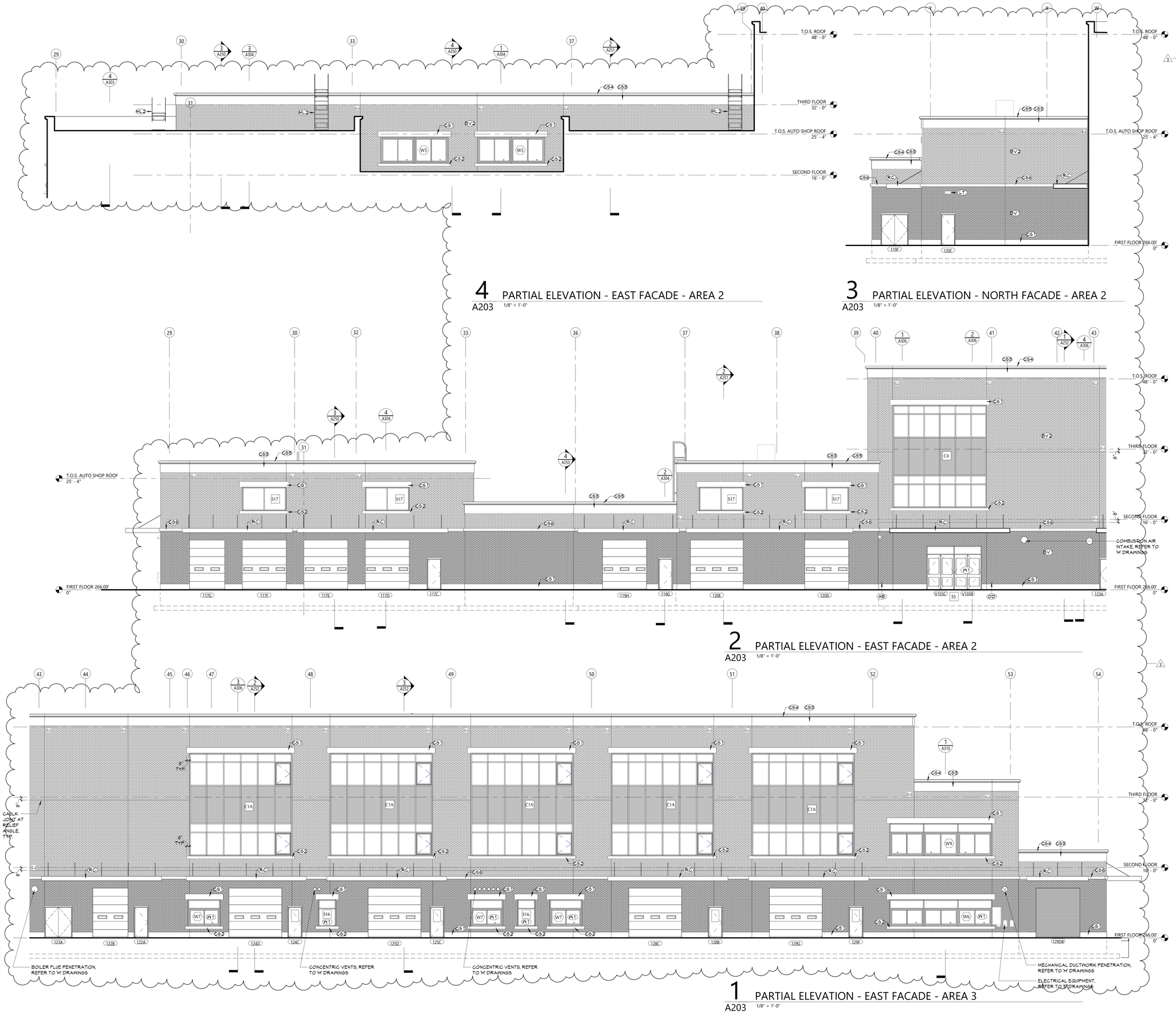
Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
CTE A202

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/108-2303 NECSD CTE - ARCH.rvt



4 PARTIAL ELEVATION - EAST FACADE - AREA 2
A203 1/8" = 1'-0"

3 PARTIAL ELEVATION - NORTH FACADE - AREA 2
A203 1/8" = 1'-0"

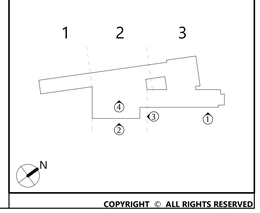
2 PARTIAL ELEVATION - EAST FACADE - AREA 2
A203 1/8" = 1'-0"

1 PARTIAL ELEVATION - EAST FACADE - AREA 3
A203 1/8" = 1'-0"

KEYNOTES

#	DESCRIPTION
BV1	BRICK VENEER, TYPE-1
BV2	BRICK VENEER, TYPE-2
CS1	CAST STONE PROFILE #1
CS2	CAST STONE PROFILE #2
CS3	CAST STONE PROFILE #3
CS4	CAST STONE PROFILE #4
CS5	CAST STONE PROFILE #5
CS6	CAST STONE PROFILE #6
HB	HOSE BIB, REFER TO PLUMBING DRAWINGS
LT	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
ML2	METAL ROOF LADDER
OD	STORM DRAIN OUTLET, REFER TO PLUMBING DRAWINGS
RG	MANUFACTURED CANOPY
V1	ALL EXTERIOR GLAZING ON THE FIRST FLOOR TO BE SECURITY GLAZING. REFER TO A900 SHEETS FOR DETAILS.

KEY PLAN



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NEW CTE BUILDING

Project Title

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1		BID Addendum #1

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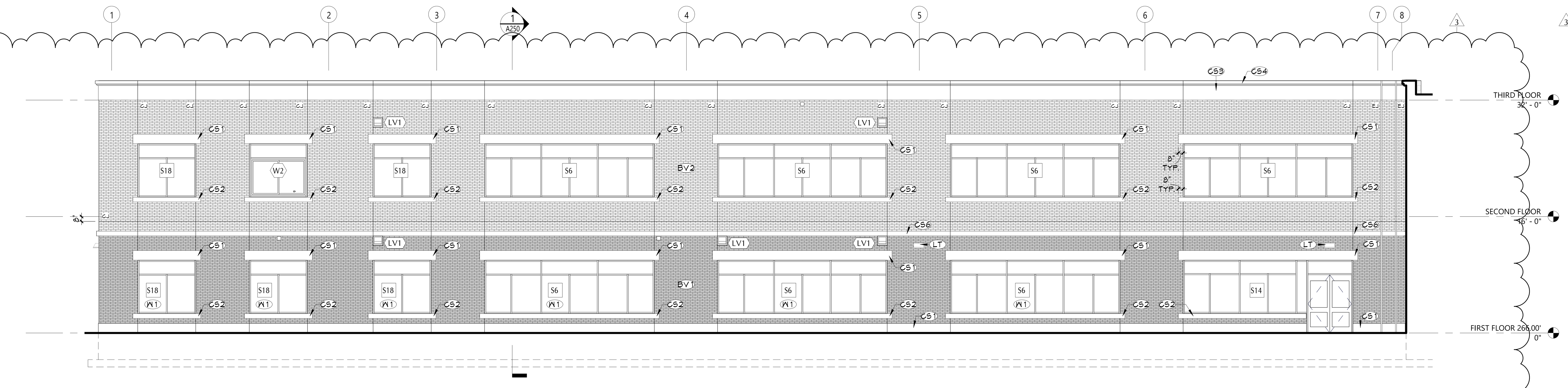
Sheet Title

EXTERIOR ELEVATIONS

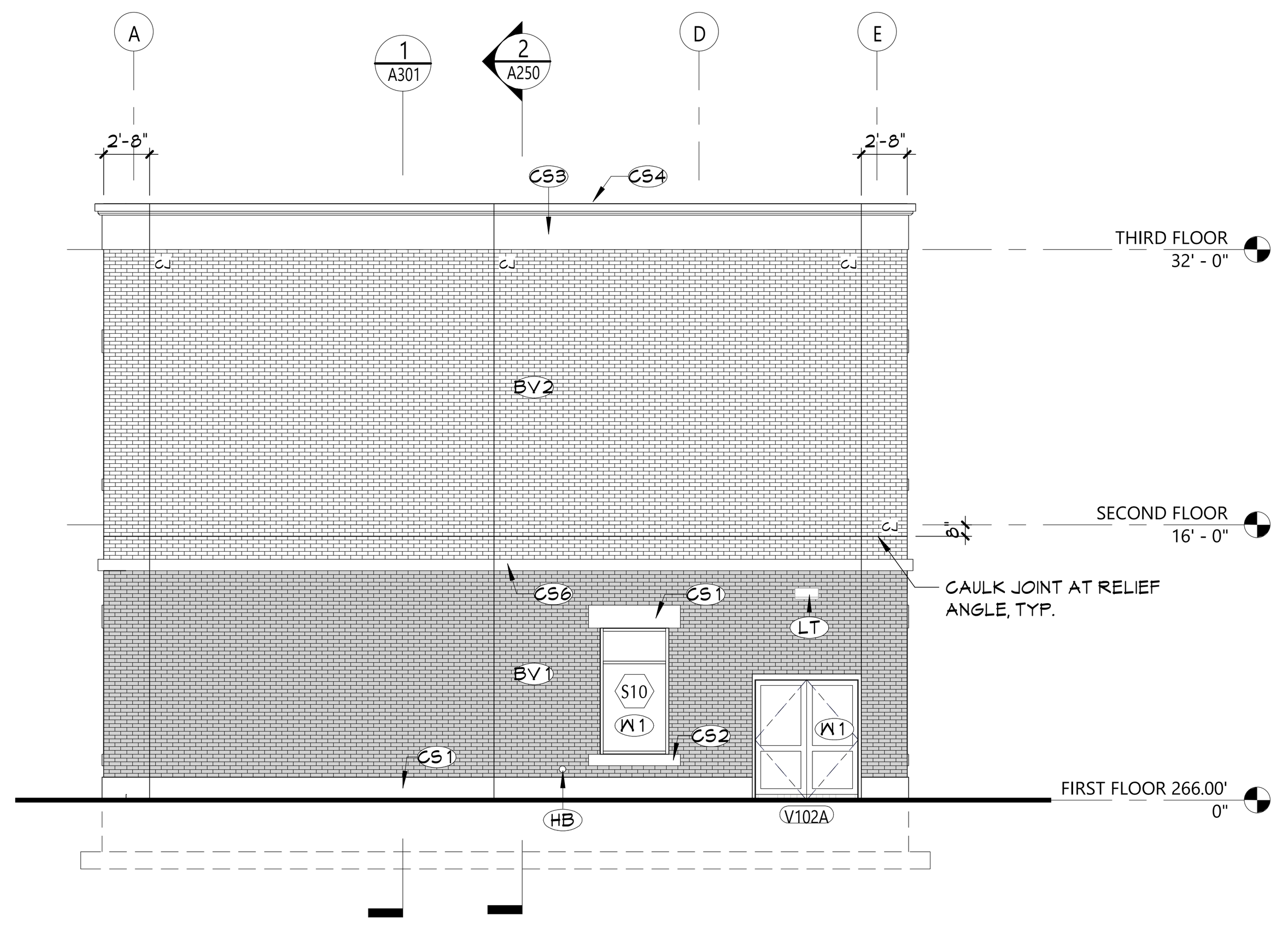
Sheet No.

CTE A203

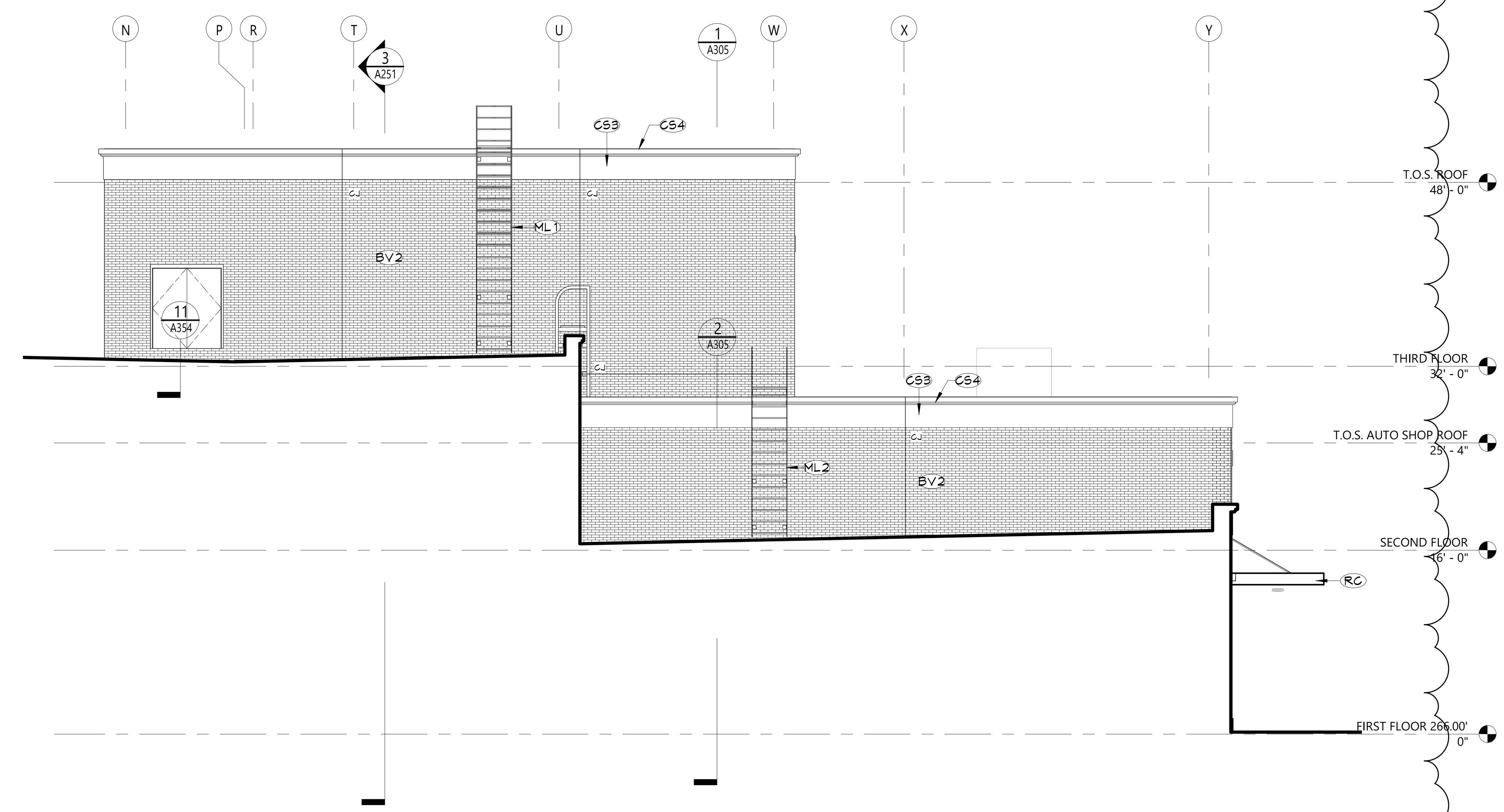
CONSTRUCTION DOCUMENTS



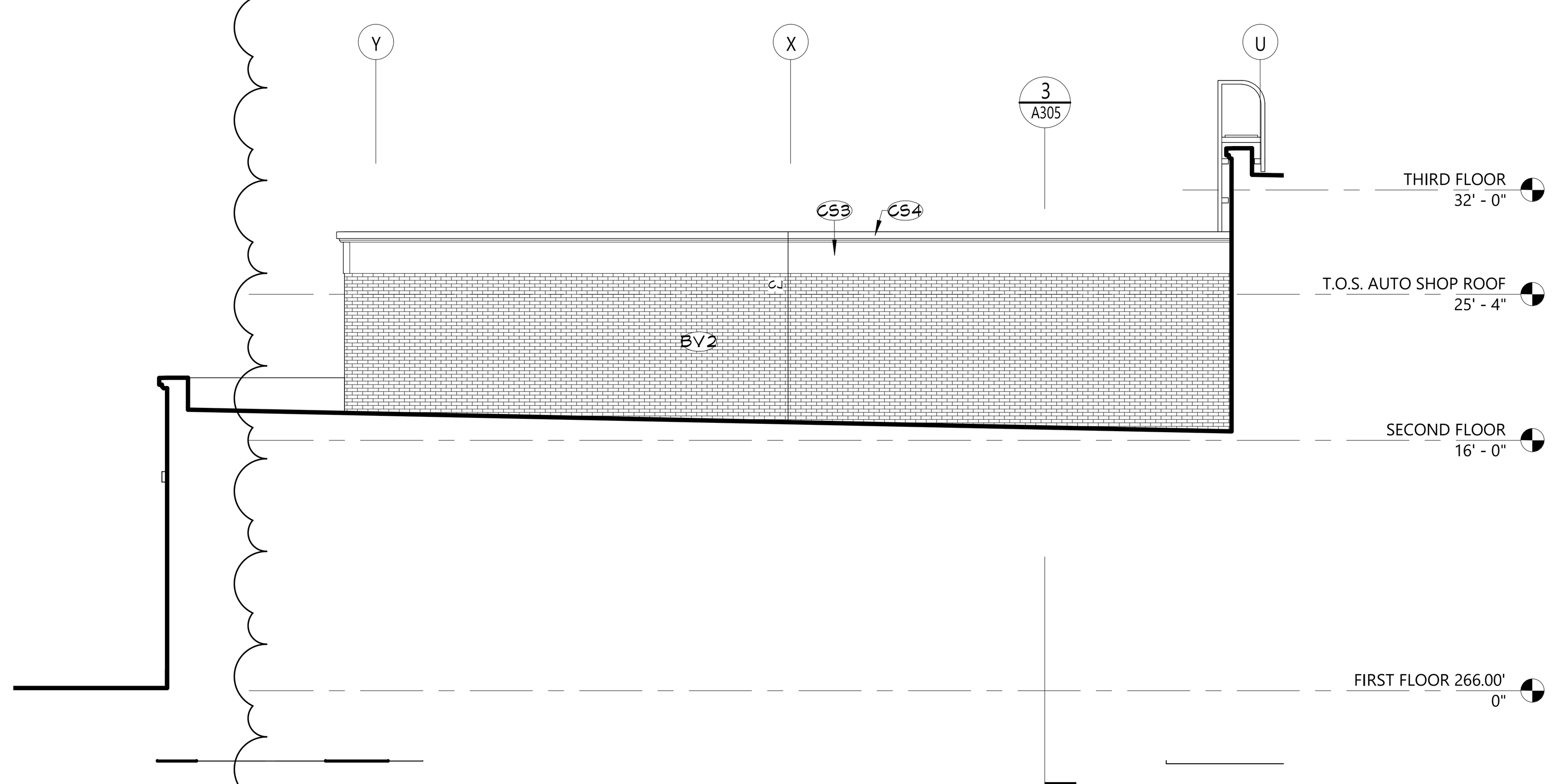
5 PARTIAL ELEVATION - EAST FACADE - AREA 1
A204 1/8" = 1'-0"



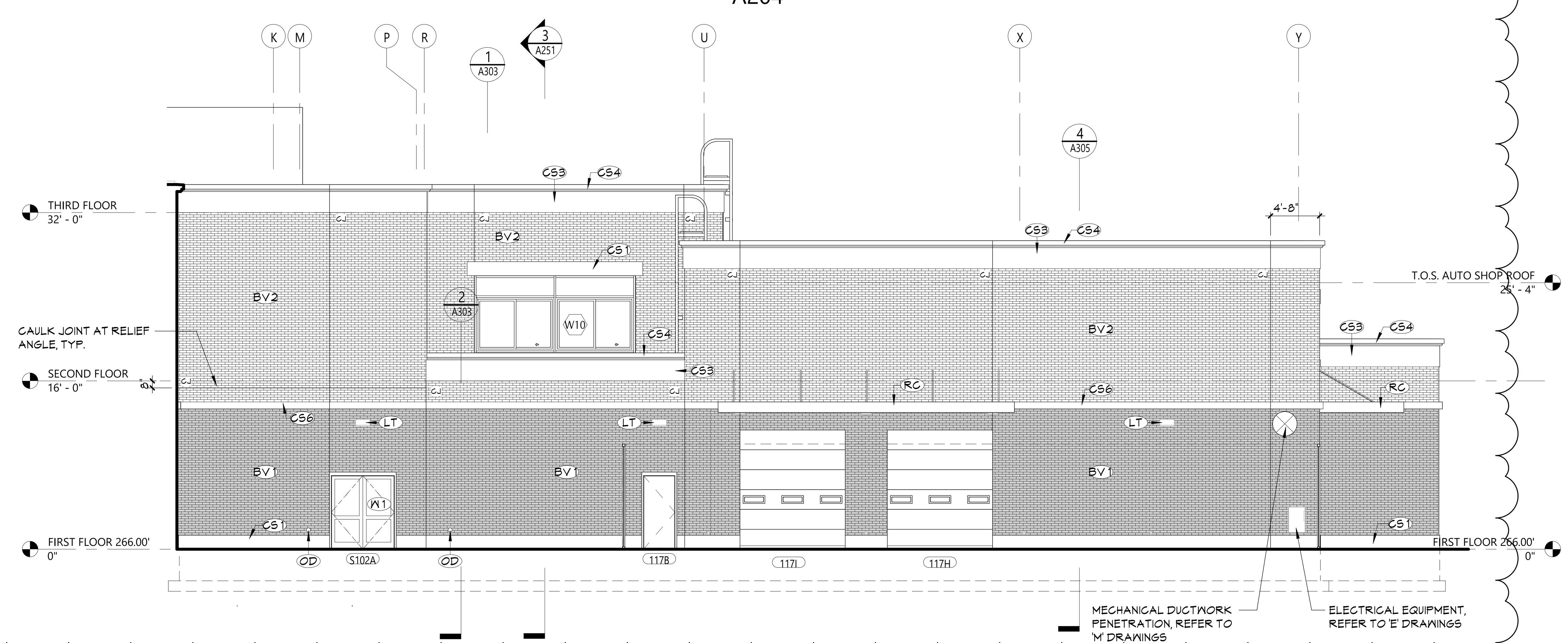
4 PARTIAL ELEVATION - SOUTH FACADE - AREA 1
A204 1/8" = 1'-0"



3 PARTIAL ELEVATION - SOUTH FACADE - AREA 2
A204 1/8" = 1'-0"



2 PARTIAL ELEVATION - NORTH FACADE - AREA 2
A204 1/8" = 1'-0"

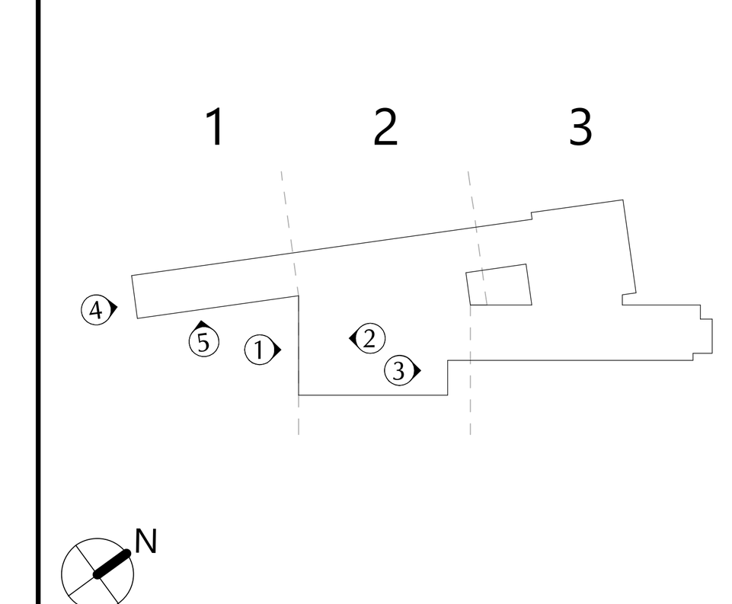


1 PARTIAL ELEVATION - SOUTH FACADE - AREA 2
A204 1/8" = 1'-0"

KEYNOTES

#	DESCRIPTION
BV1	BRICK VENEER, TYPE-1
BV2	BRICK VENEER, TYPE-2
CS1	CAST STONE PROFILE #1
CS2	CAST STONE PROFILE #2
CS3	CAST STONE PROFILE #3
CS4	CAST STONE PROFILE #4
CS6	CAST STONE PROFILE #6
HB	HOSE BIB, REFER TO PLUMBING DRAWINGS
LT	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
ML1	METAL ROOF LADDER WITH CAGE
ML2	METAL ROOF LADDER
OD	STORM DRAIN OUTLET, REFER TO PLUMBING DRAWINGS
RC	MANUFACTURED CANOPY
W1	ALL EXTERIOR GLAZING ON THE FIRST FLOOR TO BE SECURITY GLAZING. REFER TO A900 SHEETS FOR DETAILS.

KEY PLAN



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Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT RICHARD L. PECKHAM 019884 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION
3		BID Addendum #3

Drawn By:	
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CSArch Proj. #:	108-2303
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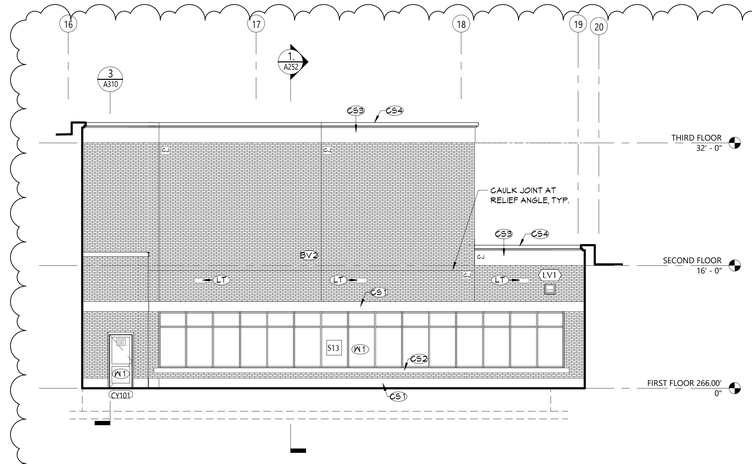
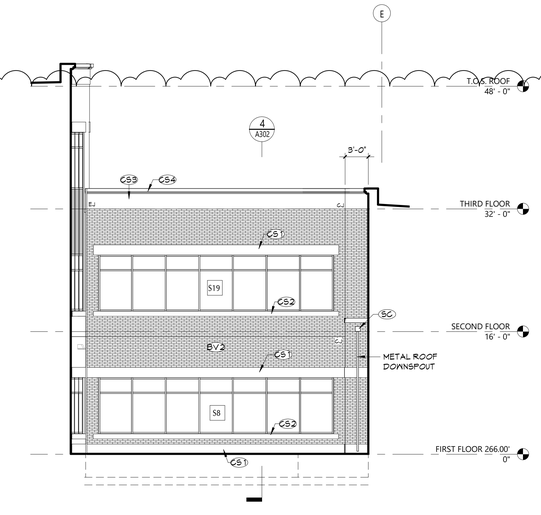
Sheet Title
EXTERIOR ELEVATIONS

Sheet No.
CTE A204

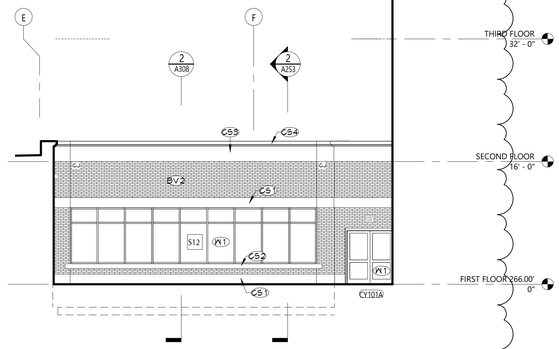
CONSTRUCTION DOCUMENTS



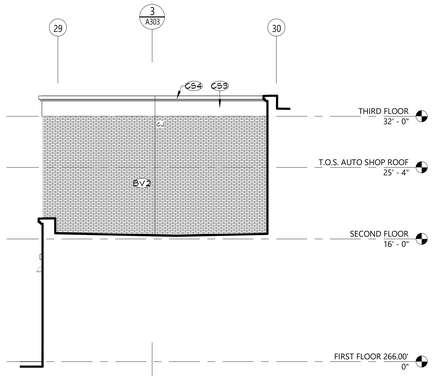
6 PARTIAL ELEVATION - EAST FACACE - COURTYARD
A205 1/8" = 1'-0"



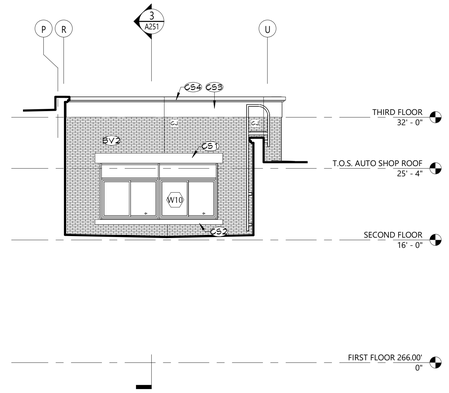
5 PARTIAL ELEVATION - SOUTH FACADE - COURTYARD
A205 1/8" = 1'-0"



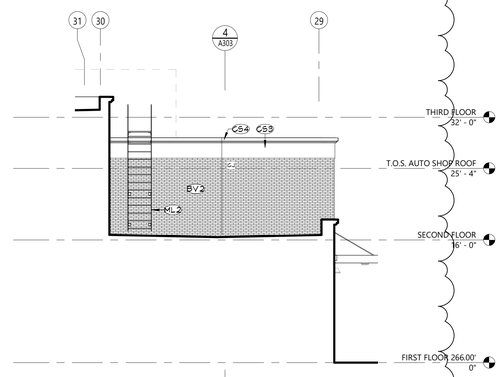
4 PARTIAL ELEVATION - WEST FACADE - COURTYARD
A205 1/8" = 1'-0"



3 PARTIAL ELEVATION - EAST FACADE - AREA 2
A205 1/8" = 1'-0"



2 PARTIAL ELEVATION - NORTH FACADE - AREA 2
A205 1/8" = 1'-0"

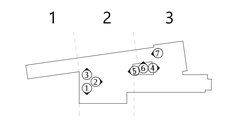


1 PARTIAL ELEVATION - WEST FACADE - AREA 2
A205 1/8" = 1'-0"

KEYNOTES

#	DESCRIPTION
BV2	BRICK VENEER, TYPE 2
CS1	CAST STONE PROFILE #1
CS2	CAST STONE PROFILE #2
CS3	CAST STONE PROFILE #3
CS4	CAST STONE PROFILE #4
CS6	CAST STONE PROFILE #6
LT	LIGHT FIXTURE, REFER TO ELECTRICAL DRAWINGS
ML1	METAL ROOF LADDER WITH CAGE
ML2	METAL ROOF LADDER
SC	ROOF SCUPPER
SV	STONE VENEER
W1	ALL EXTERIOR GLAZING ON THE FIRST FLOOR TO BE SECURITY GLAZING. REFER TO A900 SHEETS FOR DETAILS.

KEY PLAN



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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Project Title

REGISTERED ARCHITECT
RICHARD L. PROCHILO
021984
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2024

#	DATE	DESCRIPTION
3		BID Addendum #3

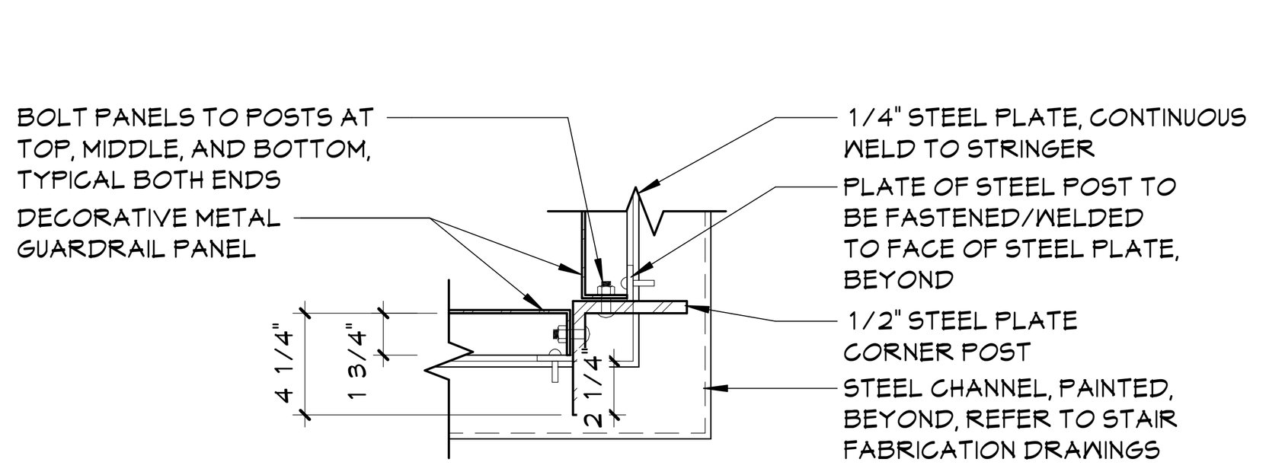
Drawn By:	
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
EXTERIOR ELEVATIONS

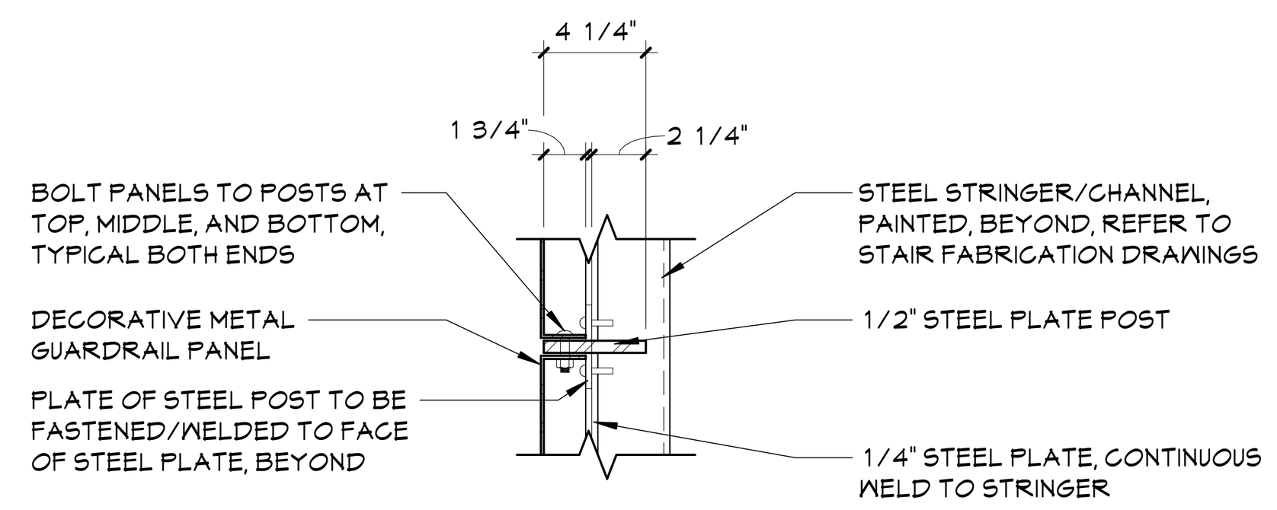
Sheet No.
CTE
A205

CONSTRUCTION DOCUMENTS

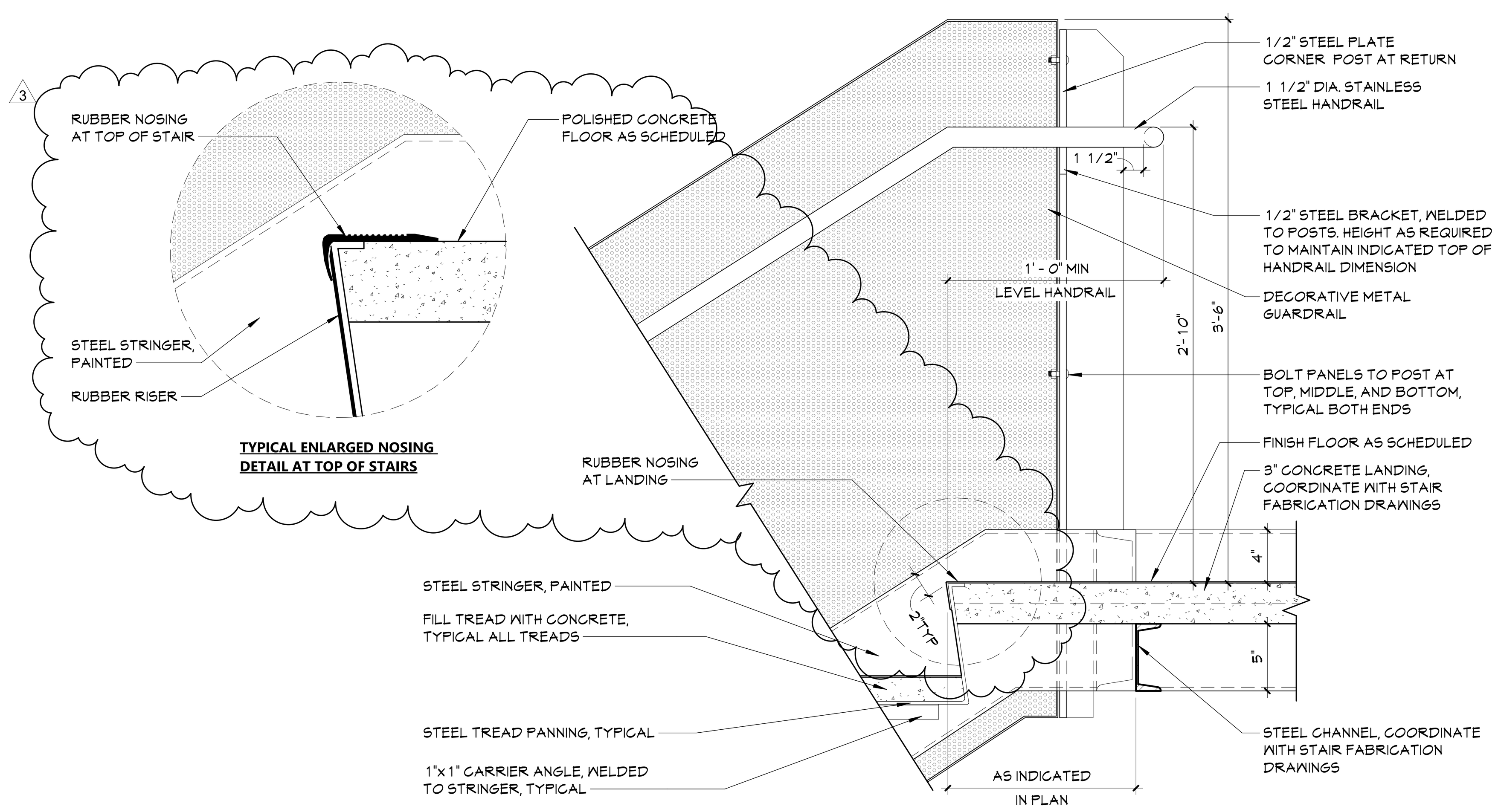
Autodesk Docs://NECSD - New CTE Bldg/108-2303 NECSD CTE - ARCH.rvt



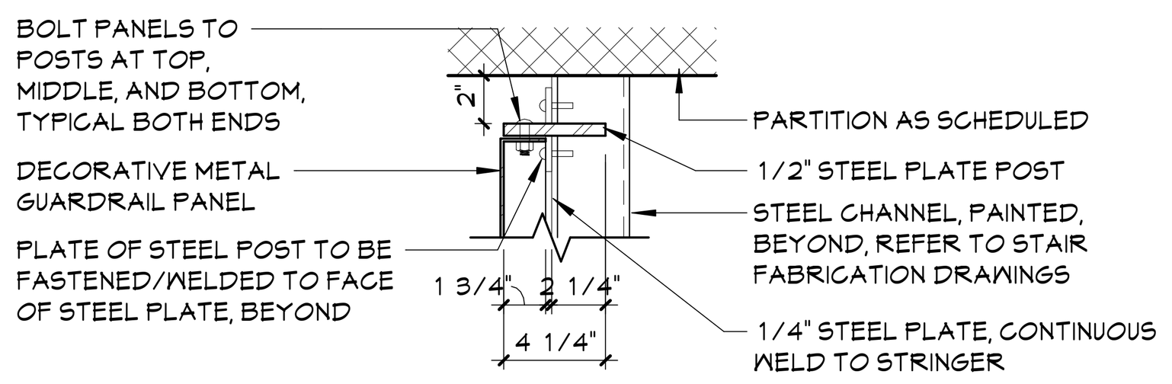
12 TYPICAL GUARDRAIL CORNER POST DETAIL
A504 1 1/2" = 1'-0"



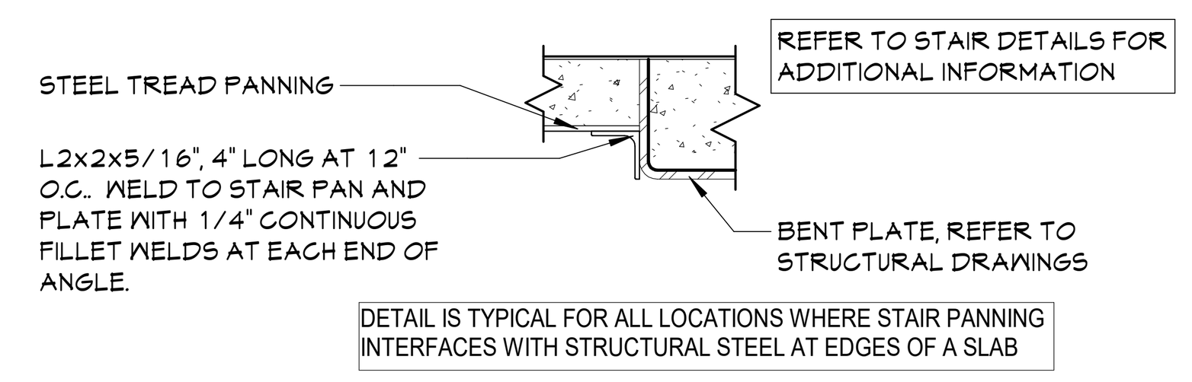
7 TYPICAL GUARDRAIL POST DETAIL
A504 1 1/2" = 1'-0"



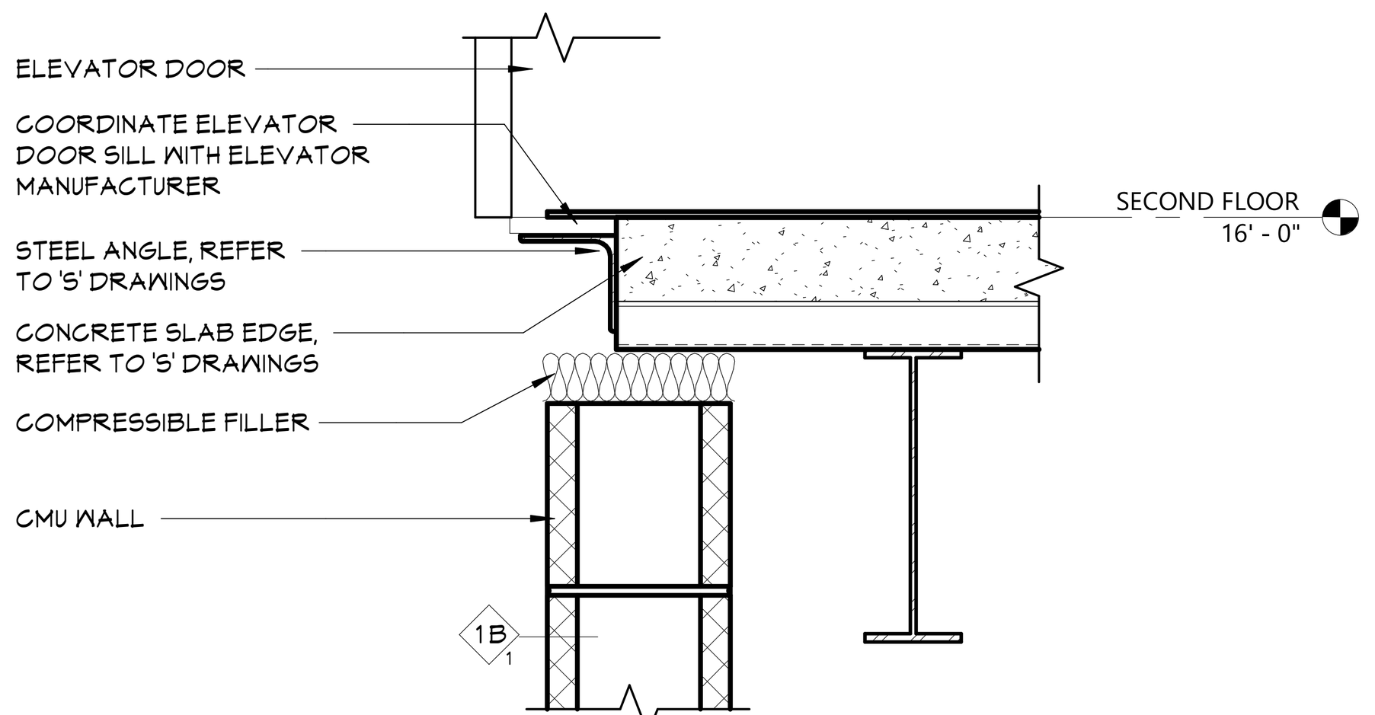
3 STAIR LANDING DETAIL
A504 1 1/2" = 1'-0"



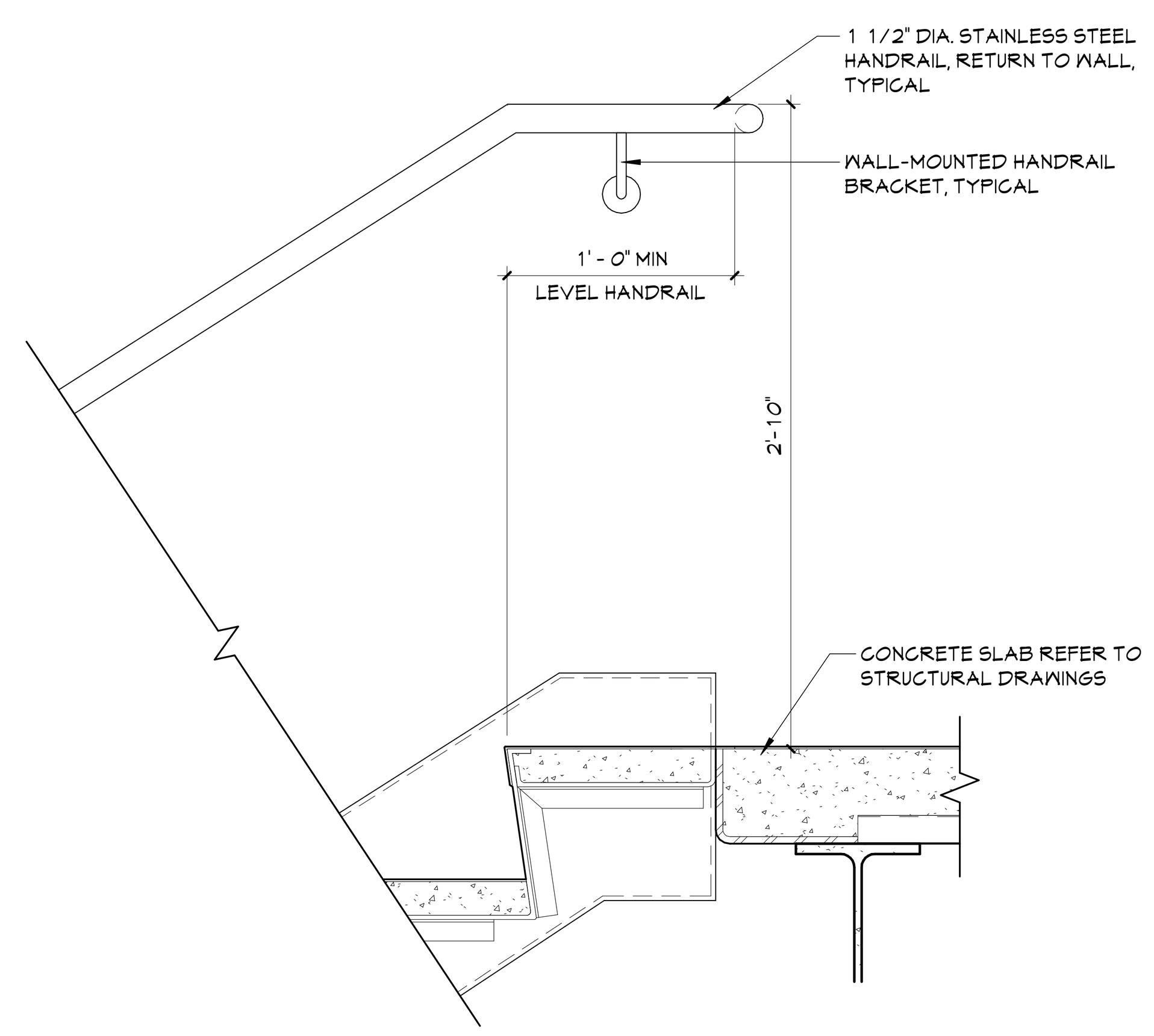
11 TYPICAL GUARDRAIL POST DETAIL AT WALL
A504 1 1/2" = 1'-0"



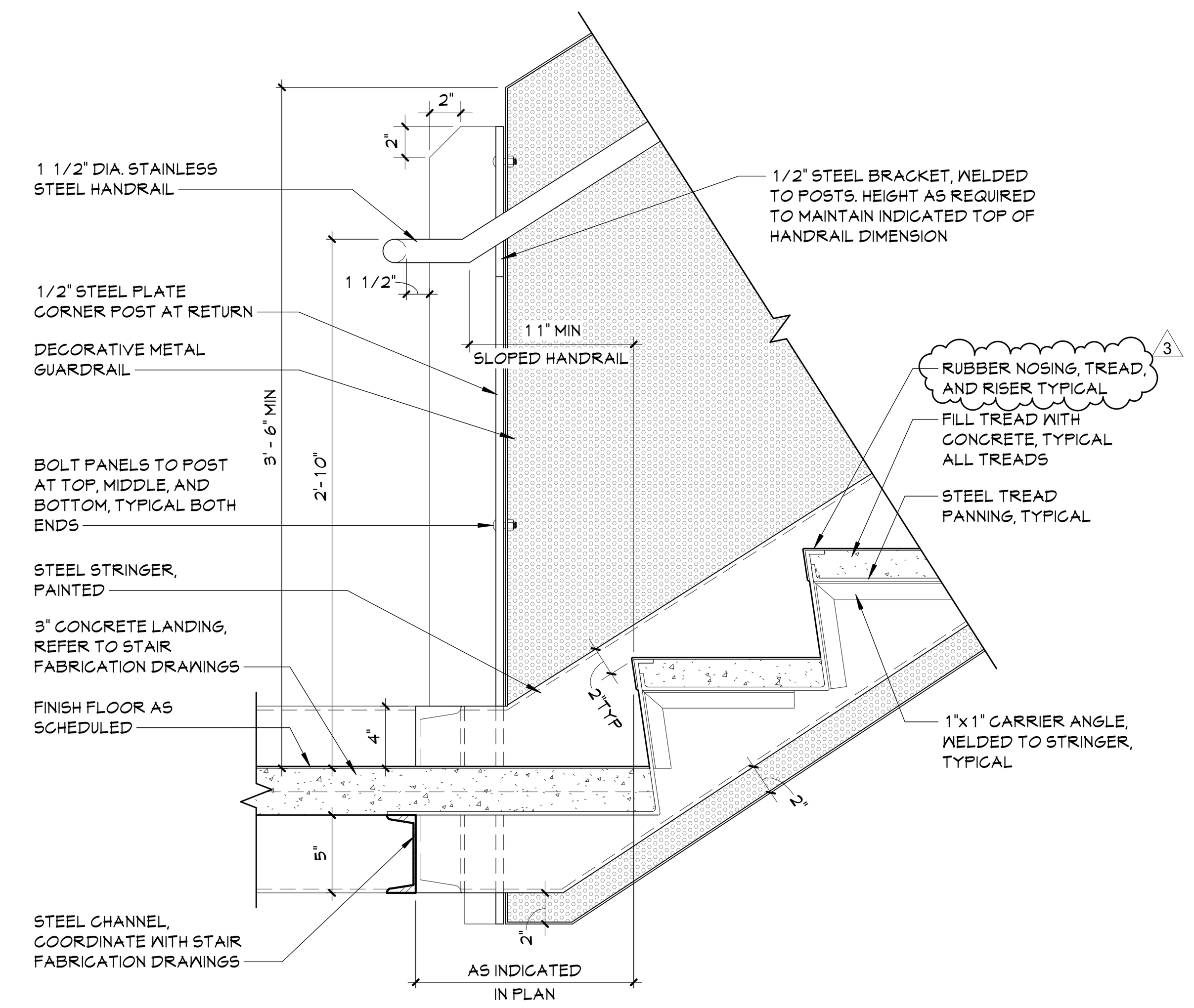
6 TYPICAL DETAIL PANNING CONNECTION TO SLAB
A504 1 1/2" = 1'-0"



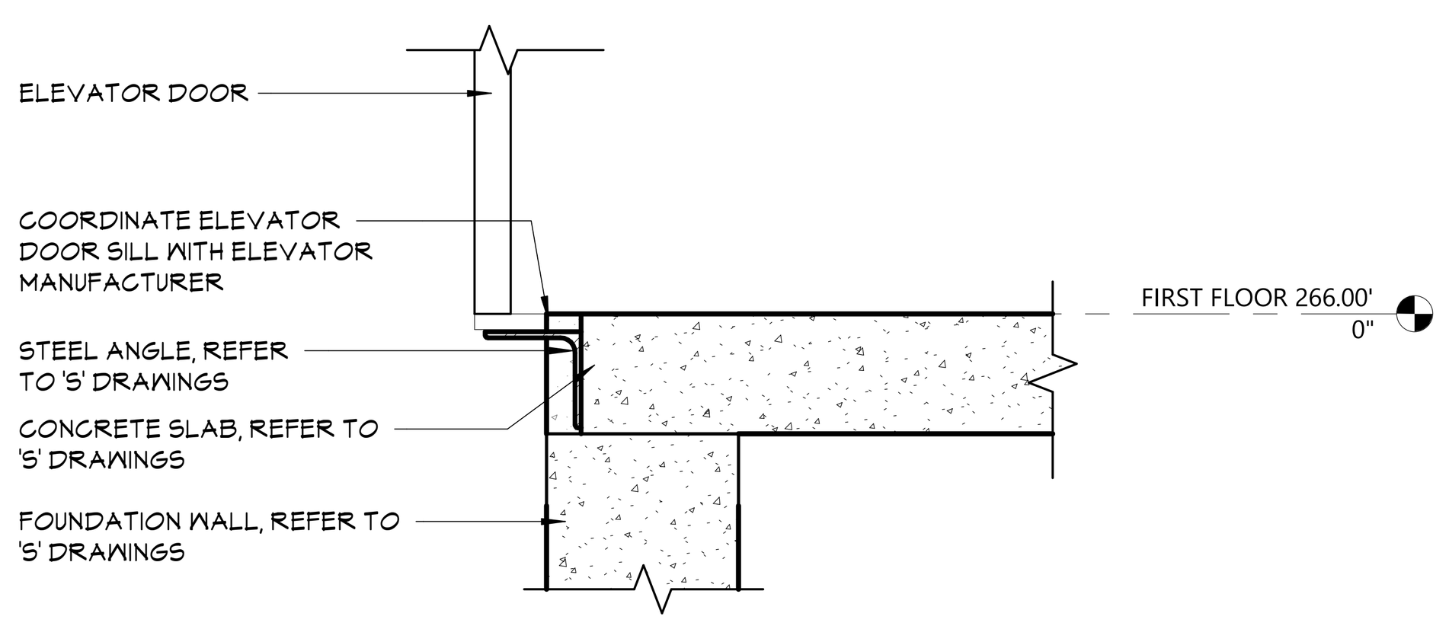
10 ELEVATOR DOOR SILL DETAIL
A504 1 1/2" = 1'-0"



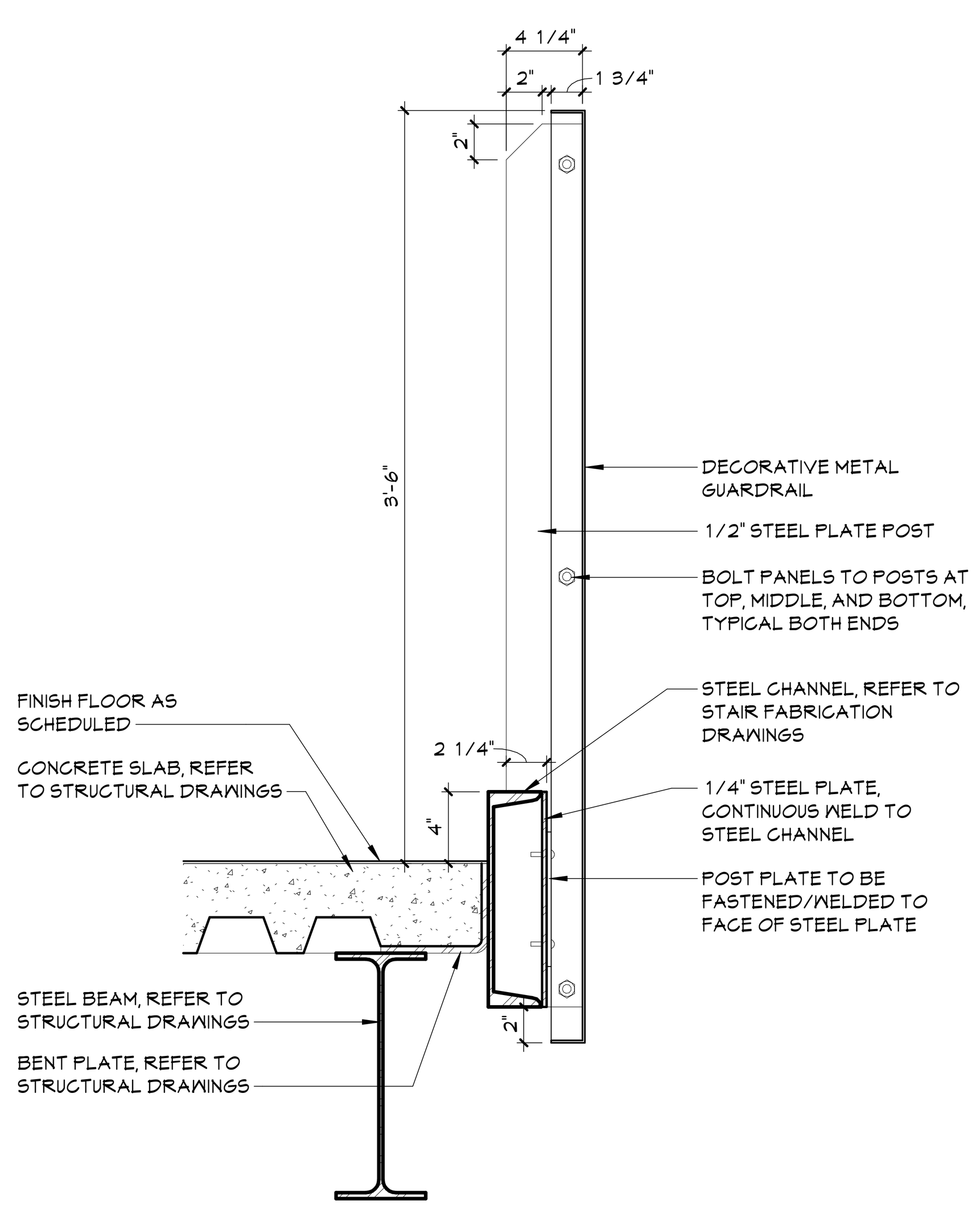
5 TYPICAL WALL-MOUNTED HANDRAIL DETAIL (TOP)
A504 1 1/2" = 1'-0"



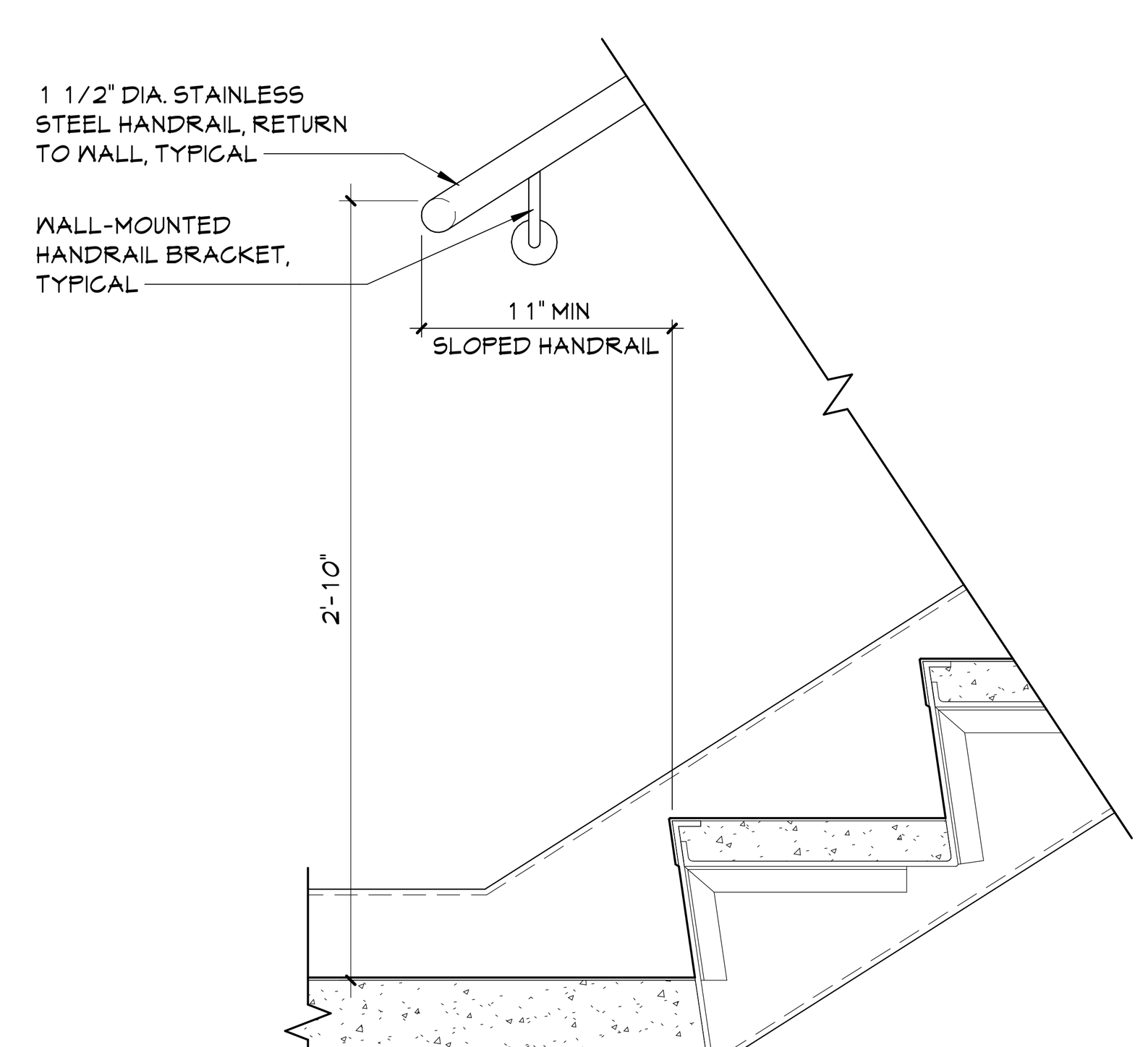
2 STAIR LANDING DETAIL
A504 1 1/2" = 1'-0"



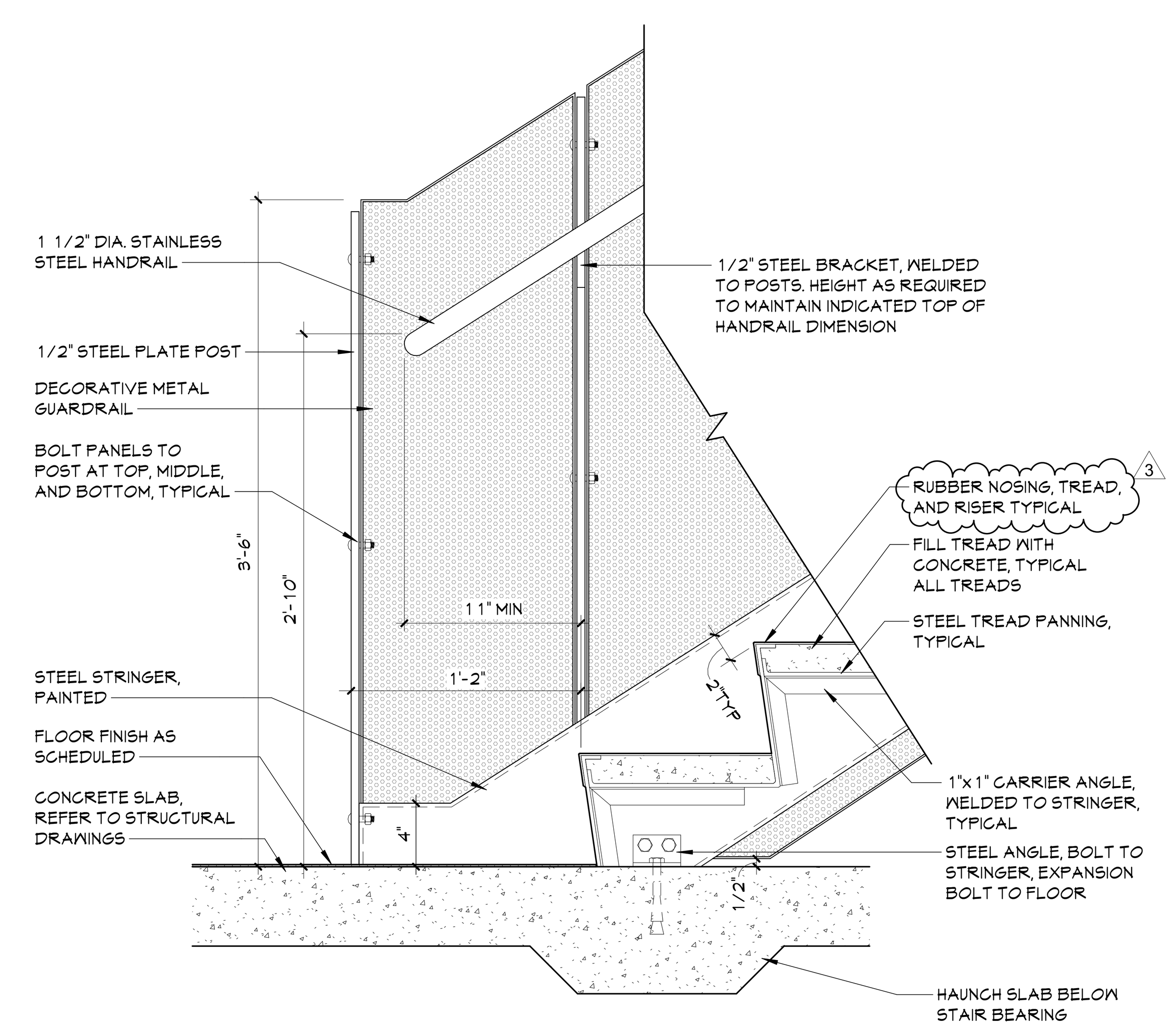
9 ELEVATOR DOOR SILL DETAIL
A504 1 1/2" = 1'-0"



8 GUARDRAIL DETAIL
A504 1 1/2" = 1'-0"



4 TYPICAL WALL-MOUNTED HANDRAIL DETAIL (BOTTOM)
A504 1 1/2" = 1'-0"

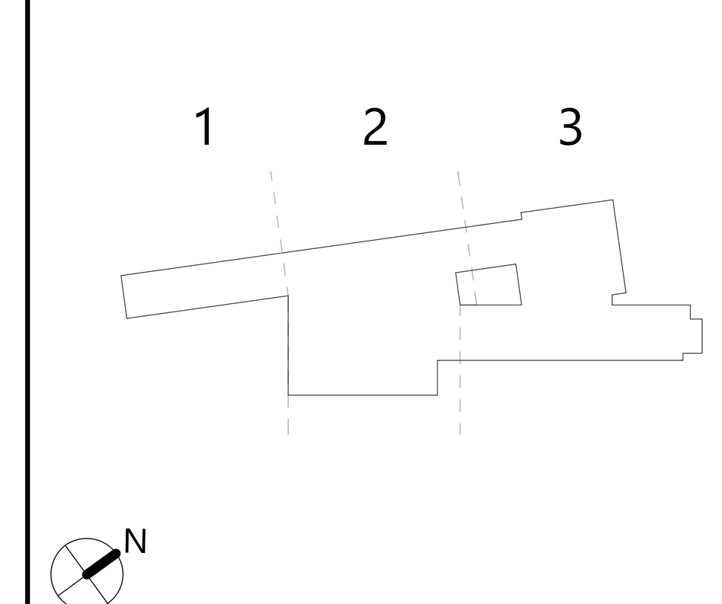


1 STAIR BASE DETAIL
A504 1 1/2" = 1'-0"

KEYNOTES

#	DESCRIPTION

KEY PLAN



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Consultant

Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTRATION EXPIRATION DATE: 12/31/2026

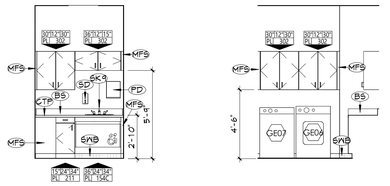
#	DATE	DESCRIPTION
1	5/15/2024	BID Addendum #1

Drawn By:	
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

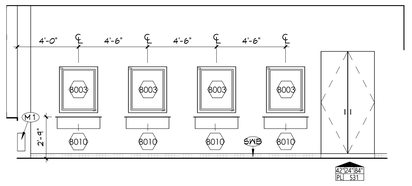
Sheet Title
STAIR & ELEVATOR - DETAILS

Sheet No.
CTE A504

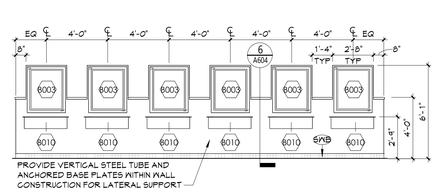
CONSTRUCTION DOCUMENTS



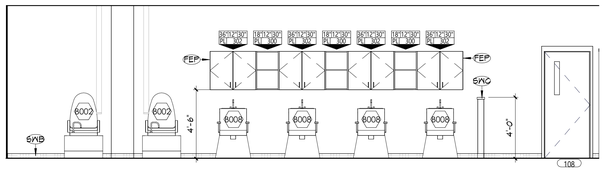
15 INTERIOR ELEVATION DISPENSING - EAST
A604 1/4" = 1'-0"



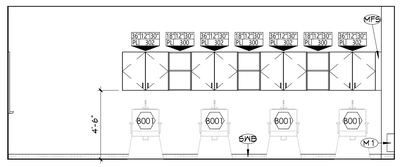
12 INTERIOR ELEVATION BARBERING - NORTH
A604 1/4" = 1'-0"



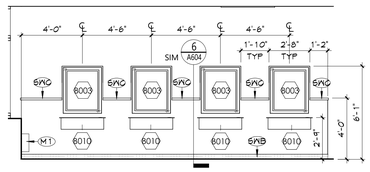
8 INTERIOR ELEVATION COSMETOLOGY - WEST
A604 1/4" = 1'-0"



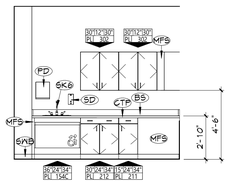
5 INTERIOR ELEVATION COSMETOLOGY - EAST
A604 1/4" = 1'-0"



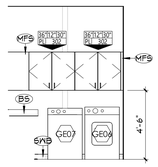
13 INTERIOR ELEVATION BARBERING - SOUTH
A604 1/4" = 1'-0"



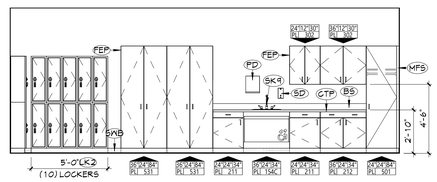
11 INTERIOR ELEVATION BARBERING - NORTH
A604 1/4" = 1'-0"



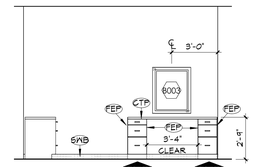
10 INTERIOR ELEVATION DISPENSING - EAST
A604 1/4" = 1'-0"



9 INTERIOR ELEVATION DISPENSING - SOUTH
A604 1/4" = 1'-0"



7 INTERIOR ELEVATION COSMETOLOGY - SOUTH
A604 1/4" = 1'-0"



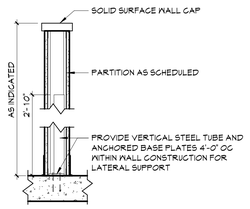
4 INTERIOR ELEVATION COSMETOLOGY - SOUTH
A604 1/4" = 1'-0"

EQUIPMENT SCHEDULE - BARBERING

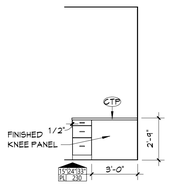
EQUIPMENT #	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	POWER	HORSEPOWER	WATER	DUST COLLECTION	COMPRESSED AIR	FURNISHED	INSTALLED
B001	4	HAIR WASH STATION	AGS BEAUTY	DT-001	FLOOR	-	-	YES	-	-	CONTRACTOR	CONTRACTOR
B003	12	MIRROR	PIBBS	PIB-9440	WALL	110V	-	-	-	-	CONTRACTOR	CONTRACTOR
B009	12	SALON CHAIR	BUY-RITE SALON & SPA EQUIPMENT	CHRIS STYLING CHAIR - SY-1801	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
B010	12	STYLING STATION	WINADO	HGI-G10000063 3	WALL	-	-	-	-	-	CONTRACTOR	CONTRACTOR
GE06	1	DRYER	MAYTAG COMMERCIAL	MDE20MNBZW	FREE STANDING	240V	1/3 HP	-	-	-	CONTRACTOR	CONTRACTOR
GE07	1	WASHING MACHINE	MAYTAG COMMERCIAL	MAT20MNAWW	FREE STANDING	120V	1/2 HP	YES	-	-	CONTRACTOR	CONTRACTOR

EQUIPMENT SCHEDULE - COSMETOLOGY

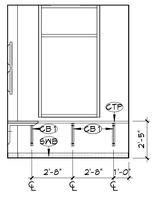
EQUIPMENT #	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	POWER	HORSEPOWER	WATER	DUST COLLECTION	COMPRESSED AIR	FURNISHED	INSTALLED
B002	2	PEDICURE STATION	J & A	JA-CLEOG5	FLOOR	110V	-	YES	-	-	CONTRACTOR	CONTRACTOR
B003	25	MIRROR	PIBBS	PIB-9440	WALL	110V	-	-	-	-	CONTRACTOR	CONTRACTOR
B005	1	WAXING TABLE	OAKWORKS	OW-CLINICIANPRIM-ELHY-ST	FREE STANDING	120V	-	-	-	-	CONTRACTOR	CONTRACTOR
B006	1	FACIAL TABLE	OAKWORKS	OW-CLINICIANPRIM-ELHY-ST	FREE STANDING	120V	-	-	-	-	CONTRACTOR	CONTRACTOR
B007	4	MANICURE STATION	J & A	JA-KM-N104	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
B008	4	HAIR WASH STATION	BARBERPUB	6154-9070	FLOOR	-	-	YES	-	-	CONTRACTOR	CONTRACTOR
B009	25	SALON CHAIR	BUY-RITE SALON & SPA EQUIPMENT	CHRIS STYLING CHAIR - SY-1801	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
B010	24	STYLING STATION	WINADO	HGI-G10000063 3	WALL	-	-	-	-	-	CONTRACTOR	CONTRACTOR
GE06	1	DRYER	MAYTAG COMMERCIAL	MDE20MNBZW	FREE STANDING	240V	1/3 HP	-	-	-	CONTRACTOR	CONTRACTOR
GE07	1	WASHING MACHINE	MAYTAG COMMERCIAL	MAT20MNAWW	FREE STANDING	120V	1/2 HP	YES	-	-	CONTRACTOR	CONTRACTOR



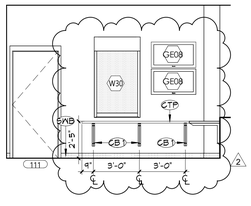
6 SECTION DETAIL AT PARTIAL HEIGHT WALL
A604 1" = 1'-0"



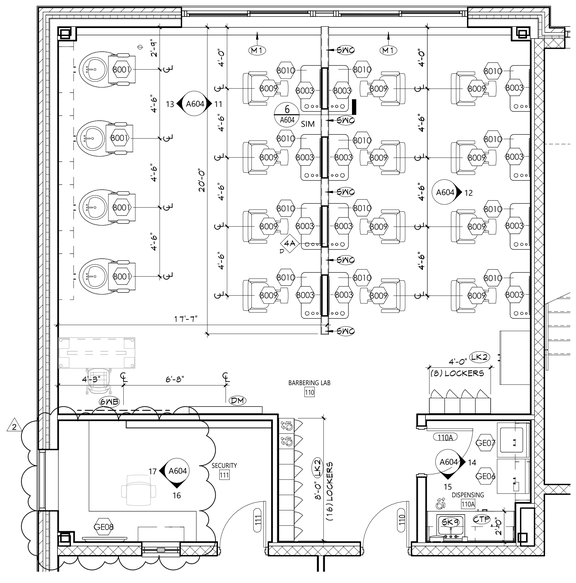
3 INTERIOR ELEVATION COSMETOLOGY - EAST
A604 1/4" = 1'-0"



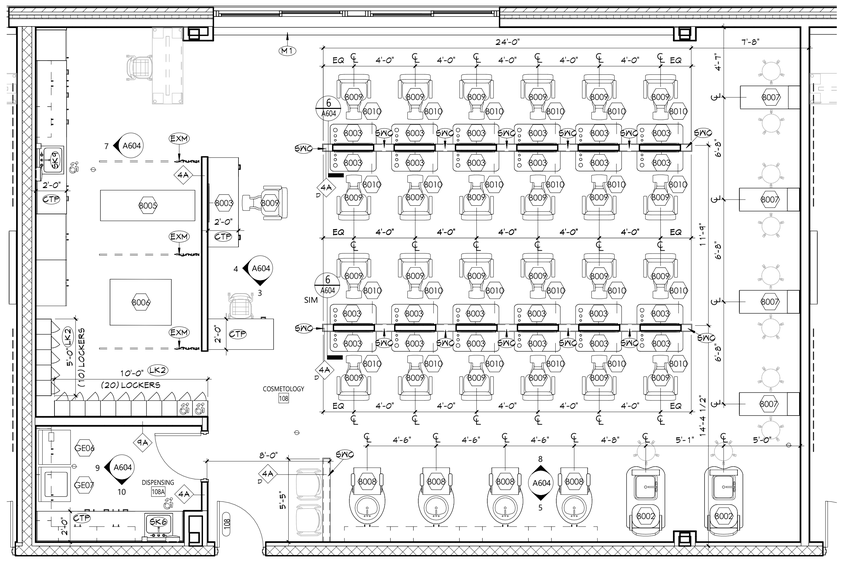
17 INTERIOR ELEVATION SECURITY - SOUTH
A604 1/4" = 1'-0"



16 INTERIOR ELEVATION SECURITY - EAST
A604 1/4" = 1'-0"



2 ENLARGED FLOOR PLAN - BARBERING
A604 1/4" = 1'-0"

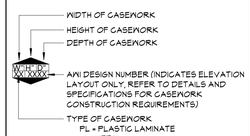


1 ENLARGED FLOOR PLAN - COSMETOLOGY
A604 1/4" = 1'-0"

GENERAL NOTES

1. ALL CASEWORK SHALL HAVE PLASTIC LAMINATE (PLAM) COUNTERTOPS AND 4" BACK SPLASHES, UNO.
2. INSTALL MATCHING FILLER PANELS IN LOCATIONS SHOWN. ADD MATCHING FILLER PANELS AS REQUIRED FOR FINAL FIT/FINISH.
3. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK.
4. PROVIDE FINISHED END PANEL AT ALL EXPOSED FACES OF CASEWORK.
5. PROVIDE WALL BASE AS SCHEDULED ON ALL EXPOSED TOE KICK SPACES AND EXPOSED END PANELS.
6. ALL FURNITURE SHOWN AS HALFTONE IS NOT IN CONTRACT

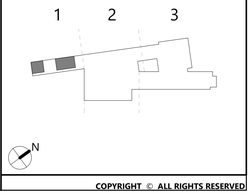
CASEWORK NOTES



KEYNOTES

#	DESCRIPTION
6WB	6' WHITEBOARD
BS	PLAM BACKSPLASH, 4" HIGH, UNO
CB1	COUNTER SUPPORT BRACKET
CTP	PLAM COUNTERTOP
DM	DISPLAY MONITOR (OWNER FURNISHED, CONTRACTOR INSTALLED)
EXM	EXAM CURTAIN
FEP	FINISHED END PANEL
LK2	TWO-TIER METAL LOCKER
M1	MECHANICAL EQUIPMENT. REFER TO MECHANICAL DRAWINGS.
MFS	MATCHING FILLER STRIP
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED, CONTRACTOR INSTALLED)
SD	SOAP DISPENSER (OWNER FURNISHED, CONTRACTOR INSTALLED)
SK6	NURSING LAB SINK, REFER TO PLUMBING DRAWINGS
SK9	LAY-IN SINK WITH EYEWASH, REFER TO PLUMBING DRAWINGS
SNB	SCHEDULED WALL BASE
SNC	SOLID SURFACE WALL CAP

KEY PLAN



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NEWBURGH ENLARGED CITY SCHOOL DISTRICT NEW CTE BUILDING

Project Title

REGISTERED ARCHITECT RAYMOND L. PROCINO 019884 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

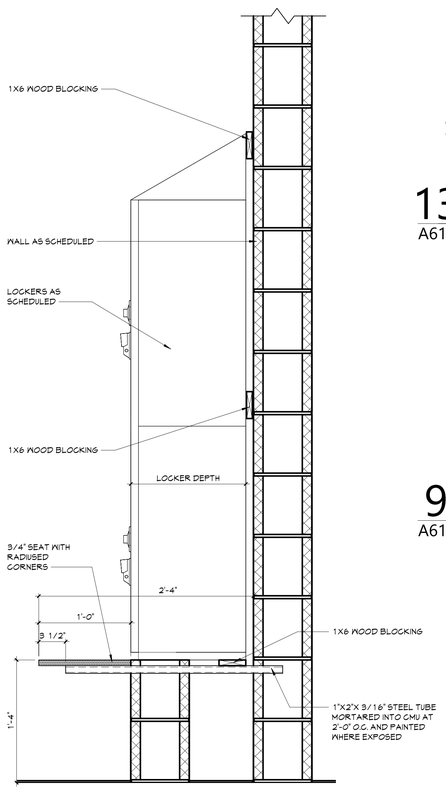
#	DATE	DESCRIPTION
3	5/13/2024	BID Addendum #2
2	5/3/2024	BID Addendum #1

Drawn By:	ACG
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

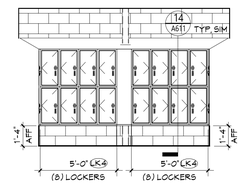
Sheet Title
ENLARGED PLAN - BARBERING AND COSMETOLOGY

Sheet No.
CTE A604

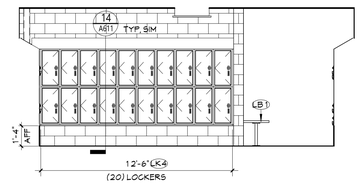
CONSTRUCTION DOCUMENTS



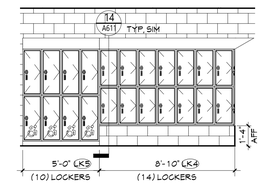
14 TYPICAL LOCKER BENCH SECTION
A611 1 1/2" = 1'-0"



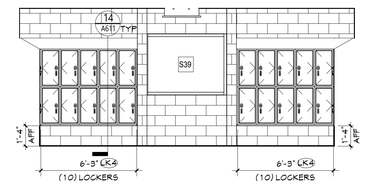
13 134 - EAST ELEV
A611 1/4" = 1'-0"



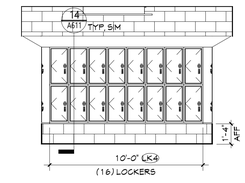
12 134 - SOUTH ELEV
A611 1/4" = 1'-0"



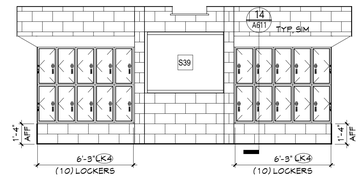
11 134 - WEST ELEV
A611 1/4" = 1'-0"



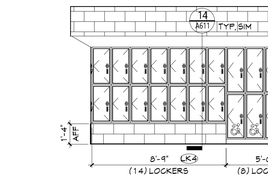
10 134 - NORTH ELEV
A611 1/4" = 1'-0"



9 131 - EAST ELEV
A611 1/4" = 1'-0"



8 131 - SOUTH ELEV
A611 1/4" = 1'-0"



7 131 - WEST ELEV
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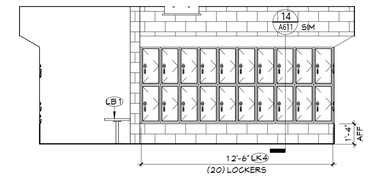
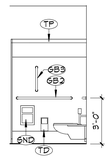
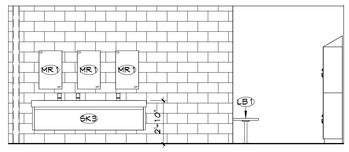


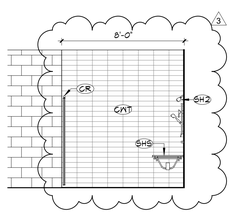
6 131 - NORTH ELEV
A611 1/4" = 1'-0"



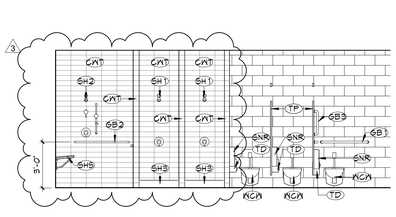
5 131A - ADA STALL ELEV (134A SIM)
A611 1/4" = 1'-0"



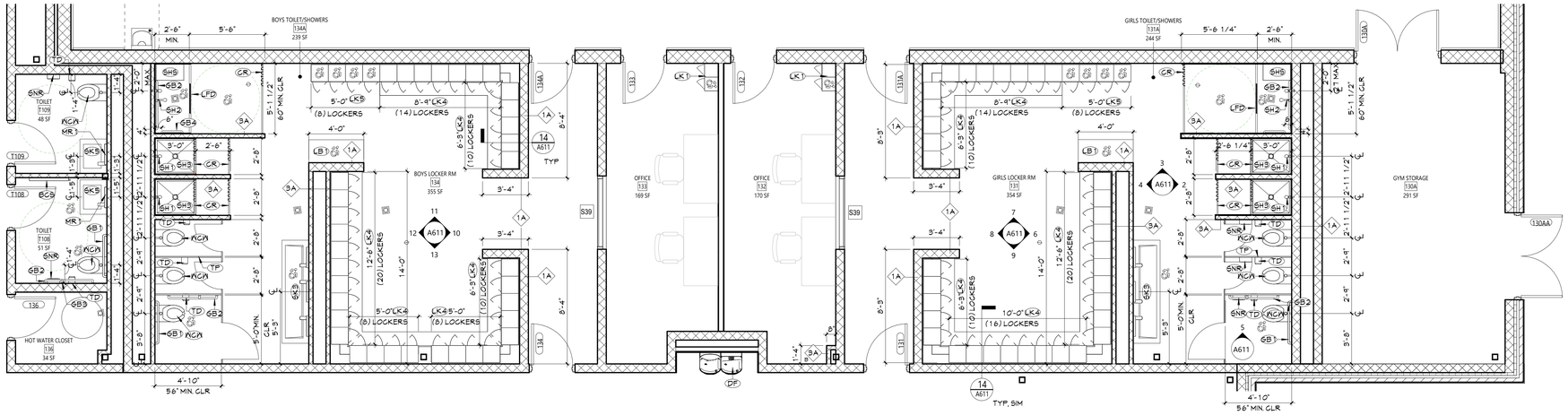
4 131A - SOUTH ELEV (134A NORTH SIM)
A611 1/4" = 1'-0"



3 131A - WEST ELEV (134A WEST SIM)
A611 1/4" = 1'-0"



2 131A - NORTH ELEV (134A SOUTH SIM)
A611 1/4" = 1'-0"

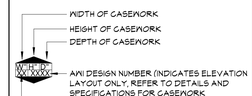


1 ENLARGED FLOOR PLAN - LOCKER ROOMS
A611 1/4" = 1'-0"

GENERAL NOTES

1. ALL CASEWORK SHALL HAVE PLASTIC LAMINATE (PLAM) COUNTERTOPS AND 4" BACK SPLASHES, UNO.
2. INSTALL MATCHING FILLER PANELS IN LOCATIONS SHOWN. ADD MATCHING FILLER PANELS AS REQUIRED FOR FINAL FIT/FINISH.
3. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK.
4. PROVIDE FINISHED END PANEL AT ALL EXPOSED FACES OF CASEWORK.
5. PROVIDE WALL BASE AS SCHEDULED ON ALL EXPOSED TOE KICK SPACES AND EXPOSED END PANELS.
6. ALL FURNITURE SHOWN AS HALFTONE IS NOT IN CONTRACT

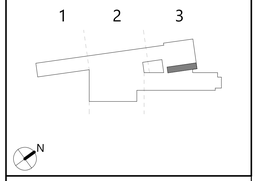
CASEWORK NOTES



KEYNOTES

#	DESCRIPTION
BCS	BABY CHANGING STATION
CR	CURTAIN ROD
CMT	CERAMIC WALL TILE, REFER TO "A9" DRAWINGS
DF	DRINKING FOUNTAIN WITH BOTTLE FILLER, REFER TO PLUMBING DRAWINGS
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
GB4	18" GRAB BAR
LB1	ADA LOCKER ROOM BENCH
LFD	LINEAR FLOOR DRAIN, REFER TO PLUMBING DRAWINGS
LK1	SINGLE-TIER METAL LOCKER
LK4	TWO-TIER METAL LOCKER - BOTTOM LOCKER 1'-6" A.F.F.
LK5	TWO-TIER METAL LOCKER
MR1	18"X30" CHANNEL FRAMED GLASS MIRROR
SH1	SHOWER HEAD, REFER TO PLUMBING DRAWINGS
SH2	ADA SHOWER HEAD AND ACCESSORIES, REFER TO PLUMBING DRAWINGS
SH3	SHOWER BASE, REFER TO PLUMBING DRAWINGS
SH5	ADA SHOWER SEAT
SK3	THREE STATION LAVATORY, REFER TO PLUMBING DRAWINGS
SK5	SINGLE STATION LAVATORY, REFER TO PLUMBING DRAWINGS
SND	SANITARY NAPKIN AND TAMPON DISPENSER (OWNER FURNISHED, CONTRACTOR INSTALLED)
SNR	SANITARY NAPKIN WASTE RECEPTACLE
TD	TOILET PAPER DISPENSER (OWNER FURNISHED, CONTRACTOR INSTALLED)
TP	TOILET PARTITION
WCN	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS

KEY PLAN



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Consultant

NEWBURGH ENLARGED CITY SCHOOL DISTRICT NEW CTE BUILDING

Project Title

REGISTERED ARCHITECT RICHARD L. PRESSMAN 019884 STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION
3	5/13/2024	BID Addendum #3

Drawn By:	CM
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
ENLARGED PLAN - LOCKER ROOMS

Sheet No.
CTE A611

CONSTRUCTION DOCUMENTS

EQUIPMENT SCHEDULE - AUTO TETCH SHOP

EQUIPMENT #	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	POWER	HORSEPOWER	WATER	DUST COLLECTION	COMPRESSED AIR	FURNISHED	INSTALLED
A001	5	3-TON FLOOR JACK	SNAP-ON	FJ300	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A002	4	6-TON JACK STAND	SNAP-ON	JS600	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A003	4	4-TON JACK STAND	SNAP-ON	JS400	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A004	1	WORKSTATION CART	SNAP-ON	KRSC4130PCM	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A005	1	SAFETY CABINET	CONDOR	45AE88	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A006	3	WASTE OIL DRAIN	SNAP-ON	5180	FREE STANDING	-	-	-	-	-	OWNER	OWNER
A007	4	ENGINE STAND	OMEGA	OMG30750	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A008	1	TIRE RACK	TENNSCO	Z5T-6084S	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A009	6	STANDARD CREEPER	JCW62R	JCW62R	FREE STANDING	-	-	-	-	-	OWNER	OWNER
A010	1	WELDER	MILLER ELECTRIC MFG.	907734	FREE STANDING	230V,1 PH, 39.5A	-	-	-	-	OWNER	OWNER
A011	1	AC MACHINE	SNAP-ON	EEAC333B	FREE STANDING	120V, 1PH, 10.0A			-		OWNER	OWNER
A012	1	MLL/DRILL MACHINE	WEISS	VM18L	COUNTER	120V, 1PH, 10.0A	-	-	-	-	CONTRACTOR	CONTRACTOR
A013	3	PARTS WASHER	SNAP-ON	PBD3222A	FREE STANDING	120V, 1PH, 10.0A	-	-	-	-	CONTRACTOR	CONTRACTOR
A014	1	TIRE CHANGER	HUNTER ENGINEERING COMPANY	TC33	FLOOR	230V, 1PH, 6.0A	-	-	-	115-175 PSI	CONTRACTOR	CONTRACTOR
A014A	1	TIRE CHANGER	HUNTER ENGINEERING COMPANY	TCRH	FLOOR	230V, 1PH, 23.0A	-	-	-	125±25 PSI	CONTRACTOR	CONTRACTOR
A015	2	WHEEL BALANCER	HUNTER ENGINEERING COMPANY	SWE33	FLOOR	230V, 1PH, 10A	-	-	-	100-175 PSI	CONTRACTOR	CONTRACTOR
A016	10	TOOL CART	SNAP-ON	KRBC717DPJJ	FREE STANDING	-	-	-	-	-	OWNER	OWNER
A017	1	OIL FILTER CRUSHER	RANGER	RP-30FCH	FREE STANDING	230V, 1PH, 10A	2HP	-	-	-	CONTRACTOR	CONTRACTOR
A018	2	SCISSOR LIFT	HUNTER ENGINEERING COMPANY	RX12QS	FREE STANDING	230V, 1PH, 26.0A	-	-	-	130-150 PSI	CONTRACTOR	CONTRACTOR
A019	2	HEAD UNIT	HUNTER ENGINEERING COMPANY	HE421CM3E		230V, 1PH, 3.0A					CONTRACTOR	CONTRACTOR
A020	2	BENCH GRINDER WITH STAND	JET	577102K & 48RJ30	FREE STANDING	120V, 1PH, 12.0A	1HP	-	-	-	CONTRACTOR	CONTRACTOR
A021	5	POST LIFT	CHALLENGER LIFTS	CL12A	FLOOR	230V, 1PH, 30.0A	-	-	-	-	CONTRACTOR	CONTRACTOR
A022	1	AIR/HAND OPERATED H-FRAME PRESS	BAILEIGH INDUSTRIAL	HSP-50A	FLOOR	-			-	YES	CONTRACTOR	CONTRACTOR
A023	1	STRUT SPRING COMPRESSOR	BRANICK	7600	WALL	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A026	1	BRAKE LATHE	HUNTER ENGINEERING COMPANY	BL73	FLOOR	230V, 1PH, 7.5A 50/60 Hz, 1ph	1.5 HP	-	-	-	CONTRACTOR	CONTRACTOR
A033	1	ENGINE HOIST	GRAINGER	3ZC71	MOBILE	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A056	1	MOTORCYCLE LIFT	BENDPAK	RML-1500XL	FREE STANDING	-	-	-	-	90-160 PSI	CONTRACTOR	CONTRACTOR
A059	1	2 TON ENGINE CRANE	OMEGA	44020	MOBILE	-	-	-	-	-	CONTRACTOR	CONTRACTOR

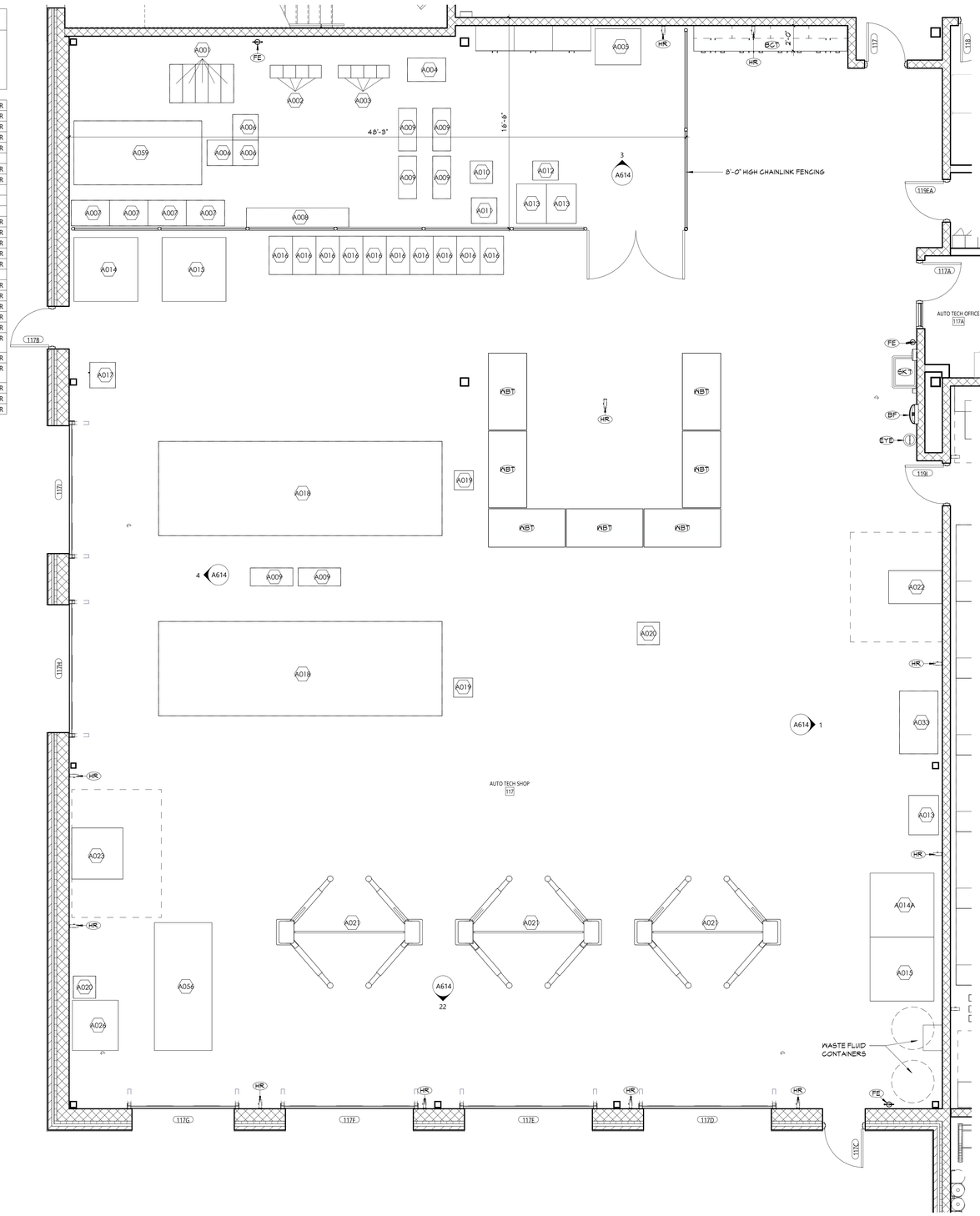
PROVIDE THE ACCOMPANYING ACCESSORIES FOR THE FOLLOWING EQUIPMENT LISTED BELOW

A012 - MILL/DRILL MACHINE
SUPPORT WITH CABINET AND DRAWER, 30201035

A019 - HEAD UNIT
NINALIGN LARGE PREMIUM CONSOLE, NA440E SERIES

A026 - BRAKE LATHE
ELITE GONE ADAPTER KIT, MODEL # 20-2615-1
DUAL QUICKCHUCK ADAPTOR, MODEL #115-423-2

3

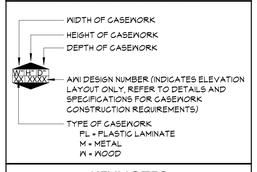


1 ENLARGED FLOOR PLAN - AUTO TECH SHOP
A613 1/4" = 1'-0"

GENERAL NOTES

1. ALL CASEWORK SHALL HAVE PLASTIC LAMINATE (PLAM) COUNTERTOPS AND 4" BACK SPLASHES, U.N.O.
2. INSTALL MATCHING FILLER PANELS IN LOCATIONS SHOWN. ADD MATCHING FILLER PANELS AS REQUIRED FOR FINAL FIT/FINISH.
3. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK.
4. PROVIDE FINISHED END PANEL AT ALL EXPOSED FACES OF CASEWORK.
5. PROVIDE WALL BASE AS SCHEDULED ON ALL EXPOSED TOE KICK SPACES AND EXPOSED END PANELS.
6. ALL FURNITURE SHOWN AS HALFTONE IS NOT IN CONTRACT

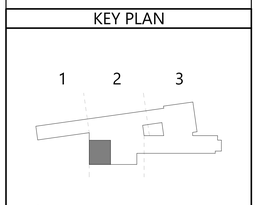
CASEWORK NOTES



KEYNOTES

#	DESCRIPTION
BGT	BUTCHERBLOCK COUNTER TOP
BF	BOTTLE FILLER, REFER TO PLUMBING DRAWINGS
EYE	EYEWASH STATION, REFER TO PLUMBING DRAWINGS
FE	FIRE EXTINGUISHER, WALL MOUNT
HR	HOSE REEL
SKT	SINGLE BAY UTILITY SINK, REFER TO PLUMBING DRAWINGS
KBT	WORKBENCH TABLE (PROVIDED BY OWNER)

KEY PLAN



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Consultant

NEWBURGH ENLARGED CITY SCHOOL DISTRICT NEW CTE BUILDING

Project Title

REGISTERED ARCHITECT RICHARD L. PROCHILO 21984 STATE OF NEW YORK

REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION
3	5/13/2024	BID Addendum #3

Drawn By:	ACG
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Proj. #:	44-16-00-01-0-053-001
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Issued for Bid:	4/15/2024

Sheet Title

ENLARGED PLAN - AUTO TECH SHOP

Sheet No.

CTE A613

CONSTRUCTION DOCUMENTS

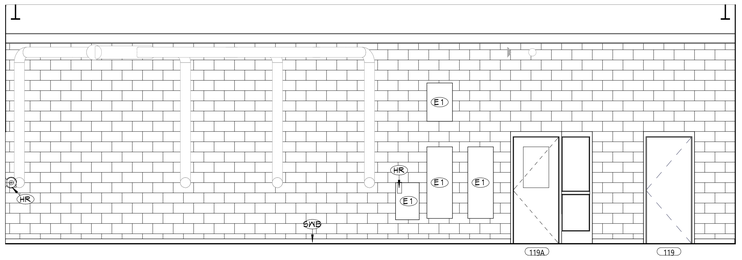
EQUIPMENT SCHEDULE - WELDING SHOP

EQUIPMENT #	QUANTITY	DESCRIPTION	MANUFACTURER	MODEL	MOUNTING	POWER	HORSEPOWER	WATER	DUST COLLECTION	COMPRESSED AIR	FURNISHED	INSTALLED
A030	3	MIG WELDER	LINCOLN	K6080-1	FREE STANDING	230V, 1PH, 22.5A	-	-	-	-	OWNER	OWNER
A30A	2	MIG WELDER	LINCOLN	K4778-1	FREE STANDING	480V, 1PH, 25.0A	-	-	-	-	OWNER	OWNER
A030B	4	MIG WELDER	LINCOLN	K3520-1 w/ K3667-1 & K3750-2	FREE STANDING	480V, 1PH, 27.0A	-	-	-	-	OWNER	OWNER
A034	2	DRILL PRESS	DAKE	SB-16 / PART # 977200-1	FLOOR	120V, 1PH, 14.0A	1/2 HP	-	-	-	CONTRACTOR	CONTRACTOR
A039	3	TIG WELDER	LINCOLN	K2618-1	MOBILE	480V, APH, 47.0A	-	-	-	-	OWNER	OWNER
A39A	1	TIG WELDER	LINCOLN	K5585-1	FREE STANDING	230V, 1PH, 30.0A	-	-	-	-	OWNER	OWNER
A040	10	WELDING BOOTH	LINCOLN	6'X6'	FREE STANDING	120V, 1PH, 1.0A	-	-	-	-	CONTRACTOR	CONTRACTOR
A040A	4	WELDING BOOTH	LINCOLN	6'X6' STARTER	FREE STANDING	120V, 1PH, 1.0A	-	-	-	-	CONTRACTOR	CONTRACTOR
A041	1	PLASMA CUTTER TABLE	TRICK TOOLS	05-0085-001	FREE STANDING	-					CONTRACTOR	CONTRACTOR
A042	1	PLASMA CUTTER	HYPERTHERM	POWERMAX85 SYNC / 3	FREE STANDING	480V, 3PH, 18.0A					CONTRACTOR	CONTRACTOR
A044	6	WELDING BOOTH	LINCOLN	4'X6'	FREE STANDING	120V, 1PH, 1.0A	-	-	-	-	CONTRACTOR	CONTRACTOR
A045	1	VERTICAL BAND SAW	BAILEIGH INDUSTRIAL	BSV-20VS-V2	FLOOR	240V, 1PH, 12.0A	2HP	-	-	-	CONTRACTOR	CONTRACTOR
A046	1	MANUAL COLD SAW	BAILEIGH INDUSTRIAL	CS-250EU	FLOOR	120V, 1PH, 10.0A	1HP	-	-	-	CONTRACTOR	CONTRACTOR
A047	4	TROLLEY	WESTWARD	32H856	FREE STANDING	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A048	2	GRINDER WITH BELT SANDER	JET	IBGB-248	STAND	120V, 1PH, 11.0A	1HP	-	-	-	CONTRACTOR	CONTRACTOR
A049	2	GRINDING TABLE	LINCOLN	K2751-10	FLOOR	208-230/460V/3PH/60HZ	-	-	-	-	CONTRACTOR	CONTRACTOR
A050	1	HORIZONTAL BANDSAW	DAKE	983101 - MODEL SE912	MOBILE	120V, 1PH, 16.0A	1HP	-	-	-	CONTRACTOR	CONTRACTOR
A051	1	HYDRAULIC IRONWORKER	BAILEIGH INDUSTRIAL	SW-441	FLOOR	230V, 1PH, 20.0A	3HP	-	-	-	CONTRACTOR	CONTRACTOR
A052	4	ROLLER CONVEYOR	ASHLAND CONVEYOR	WHG190B3603	FREE STANDING			-	-	-	CONTRACTOR	CONTRACTOR
A053	1	UTILITY HYDRAULIC PRESS	DAKE	FB-20 / PART # 972220 / 3	FLOOR	-	-	-	-	-	CONTRACTOR	CONTRACTOR
A054	3	SAWHORSE / SPEEDHORSE	BORA	PM-4500	FREE STANDING	-	-	-	-	-	OWNER	OWNER
A055	7	STICK-TIG WELDER	LINCOLN	K4868-1	FREE STANDING	480V, 3PH, 19.0A	-	-	-	-	OWNER	OWNER

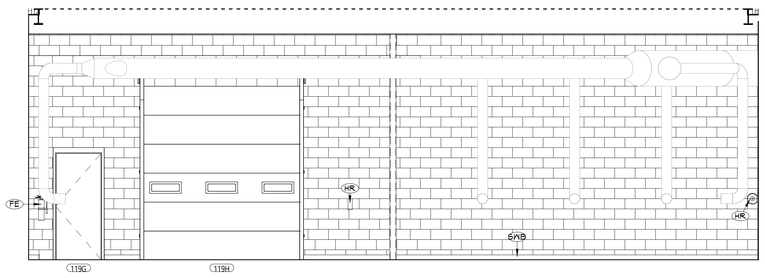
PROVIDE THE ACCOMPANYING ACCESSORIES FOR THE FOLLOWING EQUIPMENT LISTED BELOW

A048 - GRINDER WITH BELT SANDER
STAND, JT4-578172

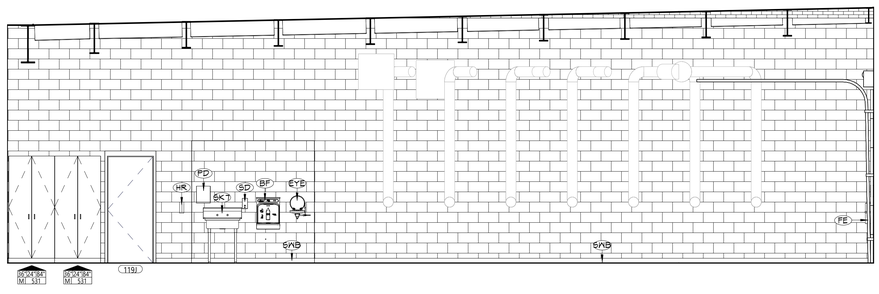
3



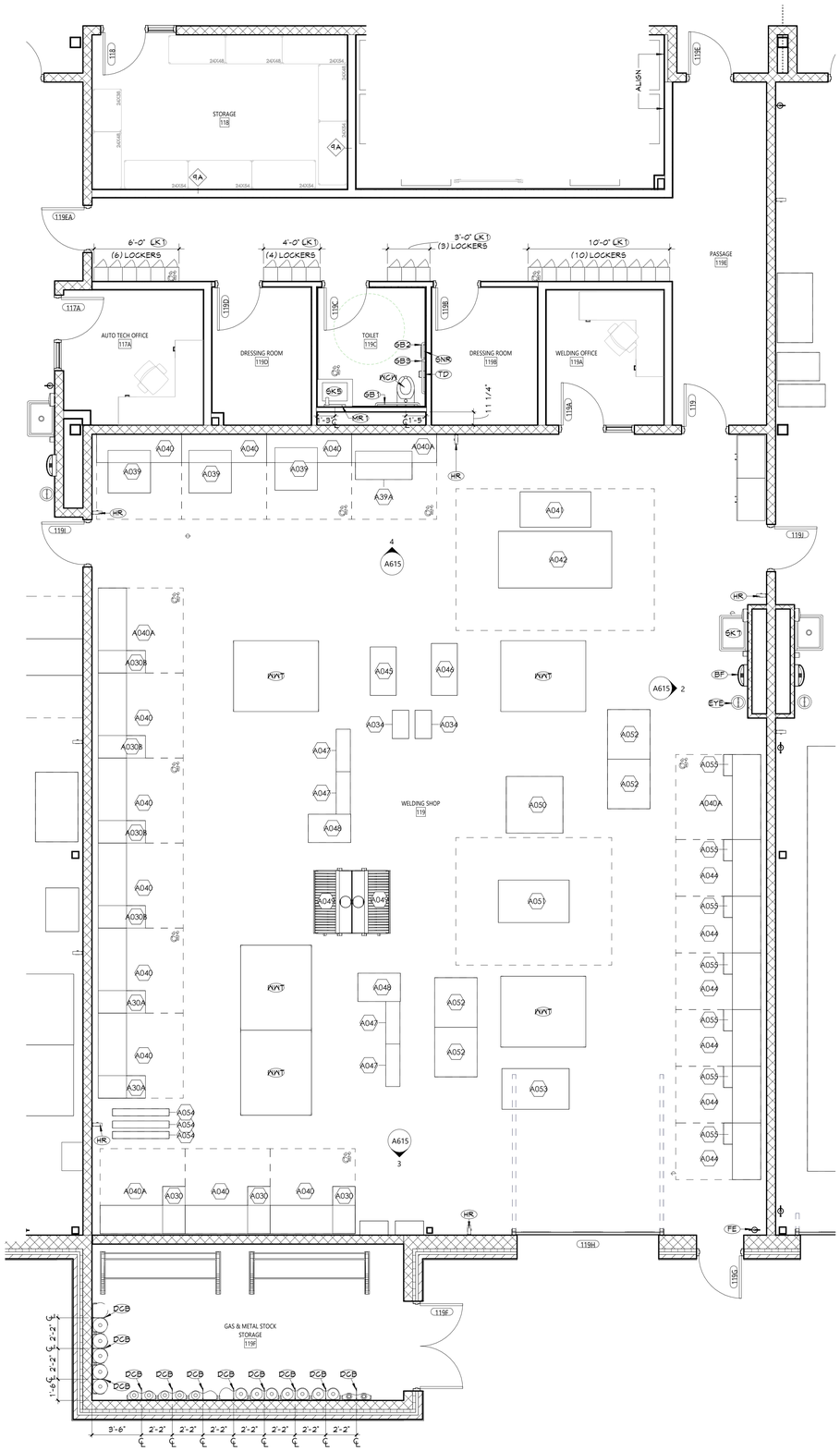
4 INTERIOR ELEVATION WELDING SHOP - WEST
A615 1/4" = 1'-0"



3 INTERIOR ELEVATION WELDING SHOP - EAST
A615 1/4" = 1'-0"



2 INTERIOR ELEVATION WELDING SHOP - NORTH
A615 1/4" = 1'-0"

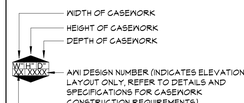


1 ENLARGED FLOOR PLAN - WELDING SHOP
A615 1/4" = 1'-0"

GENERAL NOTES

1. ALL CASEWORK SHALL HAVE PLASTIC LAMINATE (PLAM) COUNTERTOPS AND 4" BACK SPLASHES, UNO.
2. INSTALL MATCHING FILLER PANELS IN LOCATIONS SHOWN. ADD MATCHING FILLER PANELS AS REQUIRED FOR FINAL FIT/FINISH.
3. PROVIDE BLOCKING IN ALL ADJACENT WALLS AS REQUIRED TO INSTALL ALL CASEWORK.
4. PROVIDE FINISHED END PANEL AT ALL EXPOSED FACES OF CASEWORK.
5. PROVIDE WALL BASE AS SCHEDULED ON ALL EXPOSED TOE KICK SPACES AND EXPOSED END PANELS.
6. ALL FURNITURE SHOWN AS HALFTONE IS NOT IN CONTRACT

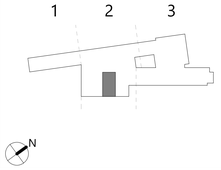
CASEWORK NOTES



KEYNOTES

#	DESCRIPTION
BF	BOTTLE FILLER, REFER TO PLUMBING DRAWINGS
DCB	DOUBLE CYLINDER BRACKET, STEEL, WITH CHAINS, 25" WIDTH
E1	ELECTRICAL EQUIPMENT, REFER TO ELECTRICAL DRAWINGS
EYE	EYEWASH STATION, REFER TO PLUMBING DRAWINGS
FE	FIRE EXTINGUISHER, WALL MOUNT
GB1	36" GRAB BAR
GB2	42" GRAB BAR
GB3	18" VERTICAL GRAB BAR
HR	HOSE REEL
LK1	SINGLE-TIER METAL LOCKER
MR1	18"X30" CHANNEL FRAMED GLASS MIRROR
PD	PAPER TOWEL DISPENSER (OWNER FURNISHED, CONTRACTOR INSTALLED)
SD	SOAP DISPENSER (OWNER FURNISHED, CONTRACTOR INSTALLED)
SK5	SINGLE STATION LAVATORY, REFER TO PLUMBING DRAWINGS
SK7	SINGLE BAY UTILITY SINK, REFER TO PLUMBING DRAWINGS
SNR	SANITARY NAPKIN WASTE RECEPTACLE
SWB	SCHEDULED WALL BASE
TD	TOILET PAPER DISPENSER (OWNER FURNISHED, CONTRACTOR INSTALLED)
WCM	WATER CLOSET, WALL MOUNTED, REFER TO PLUMBING DRAWINGS
WWT	WELDING WORK TABLE

KEY PLAN



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NEWBURGH ENLARGED CITY SCHOOL DISTRICT
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REGISTERED ARCHITECT RICHARD L. PROCTOR STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION
1	5/13/2024	BID Addendum #1

Drawn By:	ACG
Checked By:	
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Sheet Title
ENLARGED PLAN - WELDING SHOP

Sheet No.
CTE A615

CONSTRUCTION DOCUMENTS

DOOR SCHEDULE - FIRST FLOOR

DOOR NUMBER	DOOR											FRAME						LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS	DOOR NUMBER
	QUANTITY	FROM		TO		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL							
100		V101	WEST VEST	100	FRONT OFFICE	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S31	AL	FF	1/A921	1/A921	7/A901	-	G5	26.0	-	-		100
100A	1	100	FRONT OFFICE	100A	SECURITY	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	11.0	-	-		100A
100A.1		100A	SECURITY	V101	WEST VEST	2' - 6"	4' - 0"	2"	OH3	-	-	-	-	-	11/A912	-	10/A912	20	-	42.0	-	-	3	100A.1
100B	1	100	FRONT OFFICE	100B	MEETING ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	11.0	-	-		100B
100C	1	100	FRONT OFFICE	100C	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	11.0	-	-		100C
100D	1	100	FRONT OFFICE	100D	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	11.0	-	-		100D
100E	1	100	FRONT OFFICE	100E	VAULT	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	5/A901	1/A901	7/A901	-	-	27.0	-	-		100E
100F	1	100M	PASSAGE	100F	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	6/A901	-	-	11.0	-	-		100F
100G	1	100M	PASSAGE	100G	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	6/A901	-	-	14.0	-	-		100G
100H	1	100M	PASSAGE	100H	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	11.0	-	-		100H
100J	1	100	FRONT OFFICE	100J	WORK BASED LEARNING	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	11.0	-	-		100J
100K	1	100	FRONT OFFICE	100K	STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	24.0	-	-		100K
100L		C101	CORRIDOR	100	FRONT OFFICE	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S38	AL	FF	1/A921	1/A921	7/A901	-	G5	7.0	-	-		100L
100M	1	C101	CORRIDOR	100M	PASSAGE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	4.0	-	-		100M
101	1	C101	CORRIDOR	101	HEALTH OFFICE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	6.0	-	-		101
101A	1	101	HEALTH OFFICE	101A	ISOLATION ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	28.0	-	-		101A
101B	1	101	HEALTH OFFICE	101B	SECURE STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	19.0	-	-		101B
101C	1	101	HEALTH OFFICE	101C	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	6/A901	-	-	14.0	-	-		101C
101D	1	101	HEALTH OFFICE	101D	EXAM ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	28.0	-	-		101D
102	1	C101	CORRIDOR	102	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	6.0	-	-		102
103	1	C101	CORRIDOR	103	GROOMING	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	6.0	-	-		103
103A	1	103	GROOMING	103A	STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	8.0	-	-		103A
103B	1	103A	STORAGE	103B	CUST.	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	20.0	-	-		103B
103C	1	103A	STORAGE	103C	LOCKED STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	20.0	-	-		103C
103D		103	GROOMING	103D	DOG RUN	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S2	AL	FF	1/A922	1/A922	8/A351	-	G7	30.0	-	AC	10	103D
104	1	C101	CORRIDOR	104	VET TECH	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	6.0	-	-		104
104A	1	104	VET TECH	103A	STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	9.0	-	-		104A
104B		104	VET TECH	103D	DOG RUN	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S2	AL	FF	1/A922	1/A922	8/A351	-	G7	30.0	-	AC	10	104B
105	PR	C101	CORRIDOR	105	PLUMBING EQ RM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	-	-	21.0	-	-		105
105A	PR	105	PLUMBING EQ RM		EXTERIOR	3' - 6"	8' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	13/A352	6/A352	8/A351	-	-	32.0	-	AC	10	105A
106	PR	C102	CORRIDOR	106	CUSTODIAL SUPPLY RM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	-	-	21.0	-	-		106
107	1	C102	CORRIDOR	107	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	6.0	-	-		107
108	1	C102	CORRIDOR	108	COSMETOLOGY	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	5.0	-	-		108
108A	1	108	COSMETOLOGY	108A	DISPENSING	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	24.0	-	-		108A
109	1	C102	CORRIDOR	109	CLASSROOM	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	5.0	-	-		109
110	1	C102	CORRIDOR	110	BARBERING LAB	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G5	6.0	-	-		110
110A	1	110	BARBERING LAB	110A	DISPENSING	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	24.0	-	-		110A
111	1	V102	SOUTH VEST	111	SECURITY	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	-	5.0	-	-		111
111.1		111	SECURITY	V102	SOUTH VEST	2' - 6"	4' - 0"	2"	OH3	-	-	-	-	-	11/A912		10/A912	20	-	42.0	-	-	3	111.1
112	PR	C101	CORRIDOR	112	ELEC RM	3' - 0"	7' - 0"	1 3/4"	F	WD	PT	4	HM	PT	4/A901	2/A901	7/A901	60	-	40.0	-	-		112
115	1	C101	CORRIDOR	115	FOOD SERV. AREA	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	5.0	-	-		115
115A	1	C101	CORRIDOR	115A	FOOD SERV. STORAGE	3' - 4"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	18.0	-	-		115A
115B	1	C101	CORRIDOR	115	FOOD SERV. AREA	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	5.0	-	-		115B
115C		116	CAFETERIA	115	FOOD SERV. AREA	20' - 0"	9' - 6"	2"	OH4	-	-	-	-	-	2/A355	6/A255		-	-	42.0	-	-	4 / 6	115C
116	1	C101	CORRIDOR	116	CAFETERIA	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	5	HM	PT	4/A901	2/A901	7/A901	-	G3	1.0	-	-		116
116A		C101	CORRIDOR	116	CAFETERIA	8' - 0"	9' - 8"	2"	OH3	-	-	-	-	-	4/A355	9/A355	5/A355	20	-	42.0	-	-	3	116A
116B		C101	CORRIDOR	116	CAFETERIA	8' - 0"	9' - 8"	2"	OH3	-	-	-	-	-	4/A355	9/A355	5/A355	20	-	42.0	-	-	3	116B
116C	1	C101	CORRIDOR	116	CAFETERIA	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	5	HM	PT	4/A901	2/A901	7/A901	-	G3	1.0	-	-		116C
116D		C101	CORRIDOR	116	CAFETERIA	8' - 0"	9' - 8"	2"	OH3	-	-	-	-	-	4/A355	8/A355	5/A355	20	-	42.0	-	-	3	116D
116E	1	C101	CORRIDOR	116	CAFETERIA	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	2	HM	PT	4/A901	2/A901	7/A901	-	G3	1.0	-	-		116E
116F	1	C101	CORRIDOR	116	CAFETERIA	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	G3	1.0	-	-		116F
116G		C101	CORRIDOR	116	CAFETERIA	8' - 0"	9' - 8"	2"	OH3	-	-	-	-	-	4/A355	8/A355	5/A355	20	-	42.0	-	-	3	116G
116H		C101	CORRIDOR	116	CAFETERIA	10' - 0"	5' - 2"	2"	OH3	-	-	-	-	-	4/A355	7/A355	3/A355	20	-	42.0	-	-	3	116H
116I		C101	CORRIDOR	116	CAFETERIA	10' - 0"	5' - 2"	2"	OH3	-	-	-	-	-	4/A355	7/A355	3/A355	20	-	42.0	-	-	3	116I
116J		C101	CORRIDOR	116	CAFETERIA	10' - 0"	5' - 2"	2"	OH3	-	-	-	-	-	4/A355	7/A355	3/A355	20	-	42.0	-	-	3	116J
116K		C101	CORRIDOR	116	CAFETERIA	10' - 0"	5' - 2"	2"	OH3	-	-	-	-	-	4/A355	7/A355	3/A355	20	-	42.0	-	-	3	116K
116L		C101	CORRIDOR	116	CAFETERIA	10' - 0"	5' - 2"	2"	OH3	-	-	-	-	-	4/A355	7/A355	3/A355	20	-	42.0	-	-	3	116L
116M		C101	CORRIDOR	116	CAFETERIA	10' - 0"	5' - 2"	2"	OH3	-	-	-	-	-	4/A355	7/A355	3/A355	20	-	42.0	-	-	3	116M
117	1	C101	CORRIDOR	117	AUTO TECH SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		117
117A	1	117	AUTO TECH SHOP	117A	AUTO TECH OFFICE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	5	HM	PT	5/A901	1/A901	7/A901	45	G3	13.0	-	-	1	117A
117B	1	117	AUTO TECH SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	-	31.0	-	AC	10	117B
117C	1	117	AUTO TECH SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	-	31.0	-	AC	10	117C
117D		117	AUTO TECH SHOP		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	117D
117E		117	AUTO TECH SHOP		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	117E
117F		117	AUTO TECH SHOP		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	117F
117G		117	AUTO TECH SHOP		EXTERIOR	8' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	117G
117H		117	AUTO TECH SHOP		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	117H
117I		117	AUTO TECH SHOP		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	117I
118	1	C101	CORRIDOR	118	STORAGE	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	5	HM	PT	5/A901	1/A901	7/A901	-	G3	15.0	-	-		118
119	1	119E	PASSAGE	119	WELDING SHOP	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	5/A901	1/A901	7/A901	45	-	4.0	-	-		119
119A	1	119	WELDING SHOP	119A	WELDING OFFICE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	5	HM	PT	5/A901	1/A901	7/A901	45	G3	13.0	-	-	1	119A
119B	1	119E	PASSAGE	119B	DRESSING ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	14.0	-	-		119B
119C	1	119E	PASSAGE	119C	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	6/A901	-	-	14.0	-	-		119C
119D	1	119E	PASSAGE	119D	DRESSING ROOM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	7/A901	-	-	14.0	-	-		119D
119E	1	C101	CORRIDOR	119E	PASSAGE	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	G3	4.0	-	-		119E
119EA	1	119E	PASSAGE	117	AUTO TECH SHOP	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	5/A901	1/A901	7/A901	45	-	6.0	-	-		119EA
119F	PR	119F	GAS & METAL STOCK STORAGE		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	5/A901	1/A901	8/A351	-	-	33.0	-	AC	10	119F
119G	1	119	WELDING SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	-	33.0	-	AC	10	119G
119H		119	WELDING SHOP		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	4/A354	11/A901	9/A353	-	G7	42.0	-	-	2 / 8	119H
119I	1	119	WELDING SHOP	117	AUTO TECH SHOP	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	5/A901	1/A901	7/A901	45	-	41.0	-	-		119I
119J	1	119	WELDING SHOP	120	AUTOBODY SHOP	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	5/A901	1/A901	7/A901	45	-	41.0	-	-		119J
120	1	C101	CORRIDOR	120	AUTOBODY SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		120
120A	1	120	AUTOBODY SHOP	120A	AUTOBODY OFFICE	3' - 0"	7' - 0"	1 3/4"	G	HM	PT	5	HM	PT	5/A901	1/A901	7/A901	45	G3	13.0	-	-	1	120A
120B	1	120	AUTOBODY SHOP	120B	ELEC RM	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	2	HM	PT	5/A901	1/A901	7/A901	60	-	43.0	-	-		120B
120C	1	120	AUTOBODY SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	-	33.0	-	-		120C
120D		120	AUTOBODY SHOP		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	120D
120E		120	AUTOBODY SHOP		EXTERIOR	12' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	10/A353	11/A901	9/A353	-	G7	42.0	-	-	2 / 7	120E
121	1	C101	CORRIDOR	121	CUSTODIAL	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	-	16.0	-	-		121
122	PR	C101	CORRIDOR	122	LOADING	3' - 10"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	45	-	21.0	-	-		122
122A	1	122	LOADING		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	-	33.0	-	AC	10	122A
122B		122	LOADING		EXTERIOR	8' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	4/A354	11/A901	9/A353	-	-	42.0	-	-	8	122B
123	PR	122	LOADING	123	BOILER RM	3' - 0"	7' - 0"	1 3/4"	F	HM	PT	4	HM	PT	5/A901	1/A901	7/A901	60	-	21.0	-	-		123
123A	PR	123	BOILER RM		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	5/A901	1/A901	8/A351	-	-	34.0	-	AC	10	123A
124	1	C101	CORRIDOR	124	PLUMBING SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		124
124A	1	C103	CORRIDOR	124	PLUMBING SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		124A
124B		124	PLUMBING SHOP	125	HVAC SHOP	10' - 0"	11' - 0"	2"	OH2	-	-	-	-	-	8/A901	9/A901	10/A901	45	-	42.0	-	-	2 / 9	124B
124C	1	124	PLUMBING SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	G7	33.0	-	AC	10	124C
124D		124	PLUMBING SHOP		EXTERIOR	12' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	4/A354	11/A901	9/A353	-	G7	42.0	-	-	2 / 8	124D
125	1	C103	CORRIDOR	125	HVAC SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		125
125A	1	C103	CORRIDOR	125	HVAC SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		125A
125B		125	HVAC SHOP	128	ELECTRICAL SHOP	10' - 0"	11' - 0"	2"	OH2	-	-	-	-	-	8/A901	9/A901	10/A901	45	-	42.0	-	-	2 / 9	125B
125C	1	125	HVAC SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	G7	31.0	-	AC	10	125C
125D		125	HVAC SHOP		EXTERIOR	12' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	4/A354	11/A901	9/A353	-	G7	42.0	-	-	2 / 8	125D
126	1	C103	CORRIDOR	126	ELEC. RM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	-	43.0	-	-		126
127	1	C103	CORRIDOR	127	IDF	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	-	17.0	-	-		127
128	1	C103	CORRIDOR	128	ELECTRICAL SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		128
128A	1	C103	CORRIDOR	128	ELECTRICAL SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		128A
128B	1	128	ELECTRICAL SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	G7	33.0	-	AC	10	128B
128C		128	ELECTRICAL SHOP		EXTERIOR	12' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	4/A354	11/A901	9/A353	-	G7	42.0	-	-	2 / 8	128C
129	1	C103	CORRIDOR	129	CONSTRUCTION SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		129
129A	1	129	CONSTRUCTION SHOP	129A	OFFICE	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	-	12.0	-	-		129A
129B	PR	129	CONSTRUCTION SHOP	129B	STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	-	-	22.0	-	-		129B
129C	1	129	CONSTRUCTION SHOP	129C	CONSTRUCTION STORAGE	3' - 0"	7' - 0"	1 3/4"	G	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	60	G3	29.0	-	-		129C
129CA		129	CONSTRUCTION SHOP	129C	CONSTRUCTION STORAGE	10' - 0"	11' - 0"	2"	OH2	-	-	-	-	-	8/A901	9/A901	10/A901	60	-	42.0	-	-	2 / 9	129CA
129CB		129C	CONSTRUCTION STORAGE		EXTERIOR	10' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	4/A354	11/A901	9/A353	-	G7	42.0	-	-	2 / 8	129CB
129CC	1	129C	CONSTRUCTION STORAGE		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	-	33.0	-	AC	10	129CC
129D	1	C103	CORRIDOR	129	CONSTRUCTION SHOP	3' - 0"	7' - 0"	1 3/4"	N	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	45	G3	4.0	-	-		129D
129DA	1	129D	MAINTENANCE STORAGE		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	-	33.0	-	AC	10	129DA
129DB		129D	MAINTENANCE STORAGE		EXTERIOR	10' - 0"	11' - 0"	2"	OH2	-	-	-	-	-	4/A353	11/A901	9/A353	-	-	42.0	-	-	2 / 9	129DB
129F	1	129	CONSTRUCTION SHOP		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	G	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	G7	33.0	-	AC	10	129F
129G		129	CONSTRUCTION SHOP		EXTERIOR	12' - 0"	11' - 4"	3"	OH1	-	-	-	-	-	4/A354	11/A901	9/A353	-	G7	42.0	-	-	2 / 8	129G
130	PR	C104	CORRIDOR	130	GYMNASIUM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	6/A352	90	G3	10.0	-	-		130
130A	PR	130	GYMNASIUM	130A	GYM STORAGE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	-	-	23.0	-	-		130A

DOOR SCHEDULE - FIRST FLOOR

DOOR NUMBER	DOOR											FRAME						LABEL (MIN)	GLAZING	HARDWARE	MAG HOLD-OPEN	ACCESS CONTROL	REMARKS	DOOR NUMBER
	QUANTITY	FROM		TO		WIDTH	HEIGHT	THICKNESS	TYPE	MATERIAL	FINISH	TYPE	MATERIAL	FINISH	HEAD DETAIL	JAMB DETAIL	SILL DETAIL							
130AA	PR	130A	GYM STORAGE		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	5/A901	1/A901	8/A351	-	-	33.0	-	-		130AA
130B	PR	C104	CORRIDOR	130	GYMNASIUM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	6/A352	90	G3	10.0	-	-		130B
130C	PR	130	GYMNASIUM		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	5/A901	1/A901	6/A352	-	-	35.0	-	AC	10	130C
130D	PR	130	GYMNASIUM		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	5/A901	1/A901	6/A352	-	-	35.0	-	AC	10	130D
130E	PR	130	GYMNASIUM		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	5/A901	1/A901	6/A352	-	-	35.0	-	AC	10	130E
130F	PR	130	GYMNASIUM		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	F	FRP	FF	4	AL	FF	5/A901	1/A901	6/A352	-	-	35.0	-	AC	10	130F
131	1	C103	CORRIDOR	131	GIRLS LOCKER RM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	90	-	5.0	-	-		131
131A	1	130	GYMNASIUM	131	GIRLS LOCKER RM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	-	-	5.0	-	-		131A
132	1	130	GYMNASIUM	132	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	-	11.0	-	-		132
133	1	130	GYMNASIUM	133	OFFICE	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	-	11.0	-	-		133
134	1	C103	CORRIDOR	134	BOYS LOCKER RM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	90	-	5.0	-	-		134
134A	1	130	GYMNASIUM	134	BOYS LOCKER RM	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	-	-	5.0	-	-		134A
136	1	C104	CORRIDOR	136	HOT WATER CLOSET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	7/A901	-	-	17.0	-	-		136
C102	PR	C101	CORRIDOR	C102	CORRIDOR	3' - 8"	7' - 0"	1 3/4"	F	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	90	G3	51.0	MHO	-		C102
C102A		C102	CORRIDOR		EXTERIOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S14	AL	FF	1/A922	1/A922	8/A351	-	G7	37.0	-	AC	10	C102A
C103		C101	CORRIDOR	C103	CORRIDOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S32	AL	FF	1/A921	1/A921	7/A901	-	G5	49.0	MHO	-		C103
C104		C104	CORRIDOR	C101	CORRIDOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S32	AL	FF	1/A921	1/A921	7/A901	-	G5	49.0	MHO	-		C104
CY101	1	C101	CORRIDOR	CY101	COURTYARD	3' - 0"	7' - 0"	1 3/4"	DG	FRP	FF	2	AL	FF	5/A901	1/A901	8/A351	-	G3	50.0	-	AC	10	CY101
CY101A	PR	C104	CORRIDOR	CY101	COURTYARD	3' - 0"	7' - 0"	1 3/4"	DG	FRP	FF	4	AL	FF	5/A901	1/A901	8/A351	-	G3	63.0	-	AC	10	CY101A
S101	PR	C102	CORRIDOR	S101	STAIR 1	3' - 0"	7' - 0"	1 3/4"	DG	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	60	G3	51.0	MHO	-		S101
S101A		S101	STAIR 1		EXTERIOR	3' - 0"	7' - 9 3/4"	1 3/4"	DG	AL	FF	S1	AL	FF	1/A922	1/A922	8/A351	-	G7	38.0	-	AC	10	S101A
S102	PR	C101	CORRIDOR	S102	STAIR 2	3' - 0"	7' - 0"	1 3/4"	DG	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	60	G3	51.0	MHO	-		S102
S102A	PR	S102	STAIR 2		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	DG	AL	AL	4	AL	FF	5/A901	1/A901	8/A351	-	G7	39.0	-	AC	10	S102A
S103	PR	S103	STAIR 3	C101	CORRIDOR	3' - 0"	7' - 0"	1 3/4"	DG	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	60	G3	51.0	MHO	-		S103
S104	PR	C103	CORRIDOR	S104	STAIR 4	3' - 0"	7' - 0"	1 3/4"	DG	WD	FF	3	HM	PT	5/A901	1/A901	7/A901	60	G3	51.0	MHO	-		S104
S104A	PR	S104	STAIR 4		EXTERIOR	3' - 0"	7' - 8"	1 3/4"	DG	AL	AL	4	AL	FF	5/A901	1/A901	8/A351	-	G7	58.0	-	AC	11	S104A
T101	1	C102	CORRIDOR	T101	WOMEN'S	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	-	-	25.0	-	-		T101
T102	1	C102	CORRIDOR	T102	MEN'S	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	-	-	25.0	-	-		T102
T103	1	C101	CORRIDOR	T103	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	1	HM	PT	4/A901	2/A901	6/A901	20	-	52.0	-	-		T103
T104	1	C101	CORRIDOR	T104	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	60	-	52.0	-	-		T104
T105	1	C101	CORRIDOR	T105	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	60	-	52.0	-	-		T105
T106	1	C101	CORRIDOR	T106	MEN'S	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	45	-	25.0	-	-		T106
T107	1	C101	CORRIDOR	T107	WOMEN'S	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	45	-	25.0	-	-		T107
T108	1	C104	CORRIDOR	T108	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	-	-	52.0	-	-		T108
T109	1	C104	CORRIDOR	T109	TOILET	3' - 0"	7' - 0"	1 3/4"	F	WD	FF	2	HM	PT	5/A901	1/A901	6/A901	-	-	52.0	-	-		T109
V101		C101	CORRIDOR	V101	WEST VEST	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S30	AL	FF	1/A921	1/A921	7/A901	-	G5	53.0	-	AC	11	V101
V101A		C101	CORRIDOR	V101	WEST VEST	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S30	AL	FF	1/A921	1/A921	7/A901	-	G5	54.0	-	-		V101A
V101B		V101	WEST VEST		EXTERIOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S3	AL	FF	1/A922	1/A922	8/A351	-	G7	55.0	-	AC	10	V101B
V101C		V101	WEST VEST		EXTERIOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S3	AL	FF	1/A922	1/A922	8/A351	-	G7	58.0	-	AC	11	V101C
V102	PR	C102	CORRIDOR	V102	SOUTH VEST	3' - 0"	7' - 0"	1 3/4"	DG	WD	FF	3	HM	PT	4/A901	2/A901	7/A901	-	G5	59.0	-	-		V102
V102A	PR	V102	SOUTH VEST		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	DG	AL	AL	4	AL	FF	5/A901	1/A901	8/A351	-	G7	62.0	-	AC	11	V102A
V103		C101	CORRIDOR	V103	EAST VEST	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S36	AL	FF	1/A921	1/A921	7/A901	-	G5	54.0	-	-		V103
V103A		C101	CORRIDOR	V103	EAST VEST	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S36	AL	FF	1/A921	1/A921	7/A901	-	G5	53.0	-	-		V103A
V103B		V103	EAST VEST		EXTERIOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S5	AL	FF	1/A922	1/A922	8/A351	-	G7	58.0	-	AC	11	V103B
V103C		V103	EAST VEST		EXTERIOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S5	AL	FF	1/A922	1/A922	8/A351	-	G7	57.0	-	AC	10	V103C
V104		C103	CORRIDOR	V104	NORTH VEST	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S34	AL	FF	1/A921	1/A921	7/A901	-	G5	53.0	-	-		V104
V104A	PR	V104	NORTH VEST		EXTERIOR	3' - 0"	7' - 0"	1 3/4"	DG	AL	AL	4	AL	FF	5/A901	1/A901	8/A351	-	G7	62.0	-	AC	11	V104A
V105		C104	CORRIDOR	V105	NW VEST	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S33	AL	FF	1/A921	1/A921	7/A901	-	G5	56.0	-	-		V105
V105A		V105	NW VEST		EXTERIOR	3' - 0"	8' - 0"	1 3/4"	DG	AL	FF	S4	AL	FF	1/A922	1/A922	8/A351	-	G7	58.0	-	AC	11	V105A

REMARKS:

1. DOOR WITH SIDELITE.
2. OVERHEAD DOOR.
3. SMOKE CURTAIN.
4. SECURITY GRILLE.
5. ACOUSTICAL DOOR WITH STC RATING: 61.
6. MOTOR OPERATED.
7. FULL VERTICAL TRACK.
8. STANDARD LIFT TRACK.
9. ~~COILING DOOR, MOTOR OPERATED.~~
10. DOOR CONTACT SENSOR, COORDINATE WITH 'T' DRAWINGS
11. DOOR CARD READER ACCESS, COORDINATE WITH T' DRAWINSG

GLAZING TYPES

G1	TINTED INSLUATED GLASS
G2	CLEAR INSULATED GLASS
G3	FIRE PROTECTED SAFETY GLASS
G4	FULLY TEMPERED GLASS, 1/4" CLEAR
G5	LAMINATED GLASS
G6	SPANDREL GLASS
G7	SHOOTER/ATTACK RESISTANT INSULATED GLASS

DOOR/FRAME MATERIALS

ALUM	ALUMINUM
ANOD	ANODIZED
EXST	EXISTING TO REMAIN
FF	FACTORY FINISH
FRP	FIBERGLASS REINFORCED PLASTIC
HM	HOLLOW METAL
PT	PAINTED
ST	STEEL
WD	WOOD

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Consultant

Project Title

NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT RICHARD L. PECKHAM 019884 STATE OF NEW YORK

REGISTRATION EXPIRATION DATE: 12/31/2026

#	DATE	DESCRIPTION
3	5/13/2024	BID Addendum #3
2	5/3/2024	BID Addendum #2

Drawn By:	
Checked By:	
Proj. #:	44-16-00-01-0-053-001
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Sheet Title

DOOR SCHEDULE - FIRST FLOOR

Sheet No.

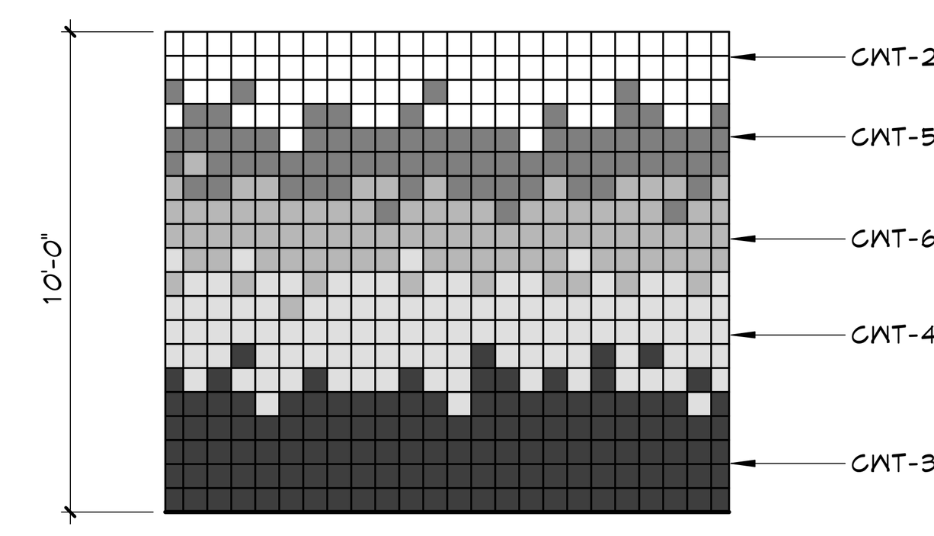
CTE A902

CONSTRUCTION DOCUMENTS

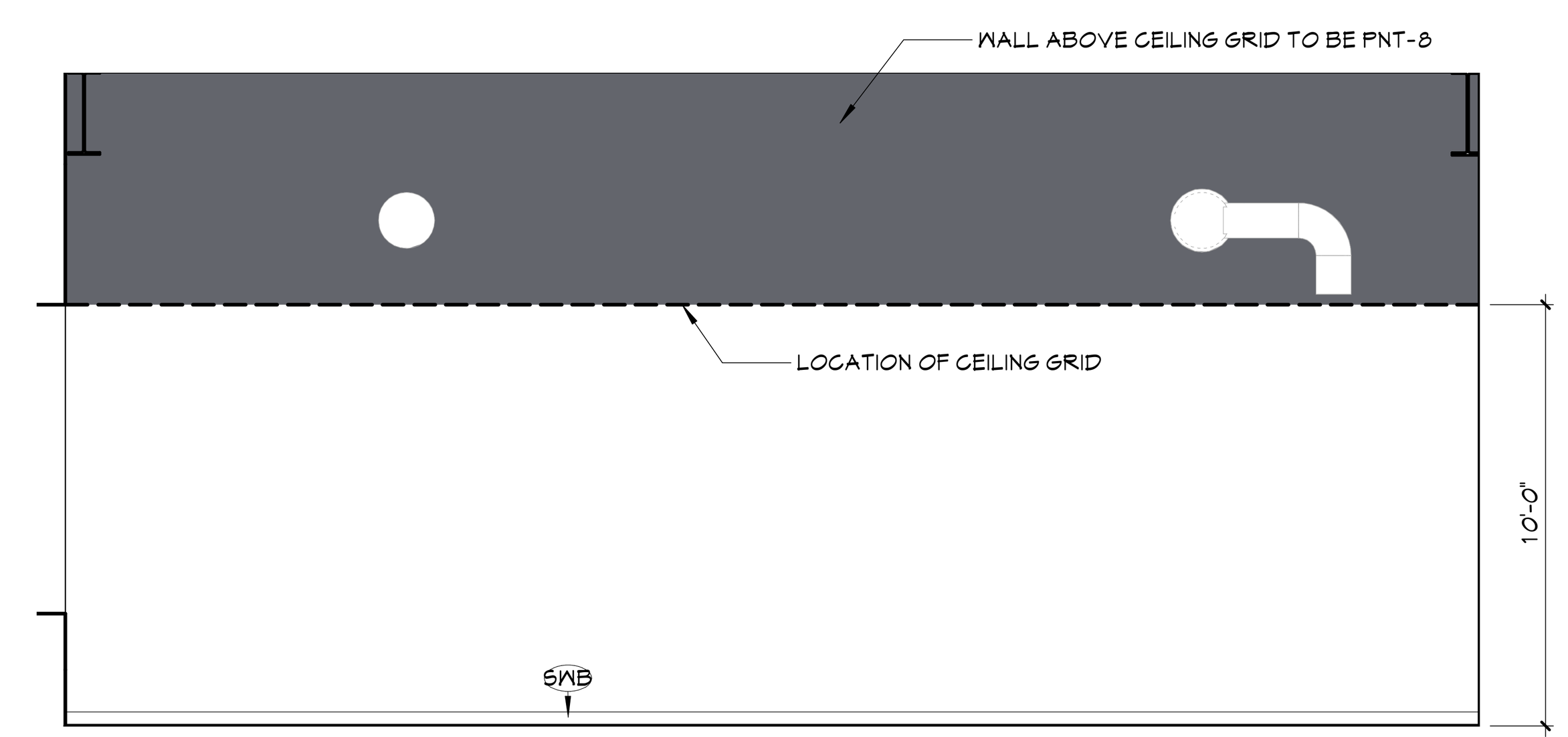
MATERIALS LEGEND

0	MANUFACTURER	MODEL	COLOR #/NAME	SIZE	NOTE
CERAMIC FLOOR TILE					
CFT-1	DALTILE	CALGARY	ARMOR CG43	12" x 24"	TYP. FLOOR
CFT-2	DALTILE	KEYSTONES	DK21 WHEAT BLEND	1" x 1"	LOCKER ROOM SHOWERS
CERAMIC WALL TILE					
CWT-1	DALTILE	COLOR WHEEL LINEAR	X714 MATTE DESERT GRAY	4" X 12"	TYP. WALL TILE
CWT-2	MOSA	COLORS	16900 ACCENT WHITE	6" X 6"	ACCENT TILE @ CAFETERIA
CWT-3	MOSA	COLORS	20910 MAZARINE BLUE	6" X 6"	ACCENT TILE @ DISPLAY CASES, CAFETERIA, VENDING
CWT-4	MOSA	COLORS	17990 BLUE CURACAO	6" X 6"	ACCENT TILE FL 1
CWT-5	MOSA	COLORS	17940 FLAME ORANGE	6" X 6"	ACCENT TILE FL 3
CWT-6	MOSA	COLORS	19990 JADE GREEN	6" X 6"	ACCENT TILE FL 2
CWT-7	DALTILE	COLOR WHEEL LINEAR	K189 NAVY	4" X 12"	ACCENT WALL TILE @ SINGLE USE TOILETS
EPOXY BASE					
EB-1	STONHARD	STONCLAD	CHARCOAL	4"	BARBERING AND COSMETOLOGY
EPOXY FLOOR					
EPF-1	STONHARD	STONCLAD	CHARCOAL		BARBERING AND COSMETOLOGY
HOMOGENEOUS COVE BASE					
HMB-1	ARMSTRONG FLOORING	NATRALIS	70004 SPRAY FOAM	4"	NURSING LAB, VET & GROOMING
HOMOGENEOUS SHEET					
HMO-1	ARMSTRONG FLOORING	NATRALIS	70004 SPRAY FOAM	6'	NURSING LAB, HEALTH, VET & GROOMING
LUXURY VINYL TILE					
LVT-1	MANNINGTON	GROOVE	C141 MISTY MOUNTAIN	6" X 36"	TYP. FLOOR CLASSROOMS, STAFF SPACES
METAL TRIM					
MT-1	SCHLUTER SYSTEMS	DILEX-AHK			AT ALL WALL TILE LOCTIONS
MT-2	SCHLUTER SYSTEMS	DILEX-AHKA			AT ALL CMU LOCATIONS IN TOILET ROOMS
PAINT					
PNT-1	SHERWIN WILLIAMS	EG-SHELL	SW 7650 ELLIE GRAY		TYP. WALL PAINT
PNT-2	SHERWIN WILLIAMS	EG-SHELL	SW 6495 GREAT FALLS		ACCENT WALL PAINT FL 1
PNT-3	SHERWIN WILLIAMS	EG-SHELL	SW 6634 COPPER HARBOR		ACCENT WALL PAINT FL 3
PNT-4	SHERWIN WILLIAMS	EG-SHELL	SW 9178 IN THE NAVY		ACCENT WALL PAINT FL 1, GUIDANCE
PNT-5	SHERWIN WILLIAMS	EG-SHELL	SW 9041 PARISIAN PATINA		ACCENT WALL PAINT FL 2
PNT-6	SHERWIN WILLIAMS	SEMI-GLOSS	SW 9178 IN THE NAVY		HM DOOR PAINT
PNT-8	SHERWIN WILLIAMS	FLAT	SW 7068 GRIZZLE GRAY		TYP. OPEN CEILING AND BELOW STRUCTURAL
PNT-7	SHERWIN WILLIAMS	FLAT	SW 7005 PURE WHITE		TYP. GYPSUM CEILING
PNT-9	SHERWIN WILLIAMS	PRO INDUSTRIAL WATER BASED CATALYZED	SW 9178 IN THE NAVY		LOCKER ROOM, TOILETS, CAFETERIA FLOOR
PNT-10	SHERWIN WILLIAMS	PRO INDUSTRIAL WATER BASED CATALYZED	SW 7650 ELLIE GRAY		CUSTODIAL, PLUMBING, CULINARY, LOCKER & GYM
PNT-11	SHERWIN WILLIAMS	FLAT	SW 6495 GREAT FALLS		ACCENT CEILING PAINT FL 1
PNT-12	SHERWIN WILLIAMS	FLAT	SW 9041 PARISIAN PATINA		ACCENT CEILING PAINT FL 2
PNT-13	SHERWIN WILLIAMS	FLAT	SW 6634 COPPER HARBOR		ACCENT CEILING PAINT FL 3
PNT-14	SHERWIN WILLIAMS	FLAT	SW 9178 IN THE NAVY		CAFETERIA CEILING AND FLOOR STRIPING
PNT-15	SHERWIN WILLIAMS	PRO INDUSTRIAL WATER BASED CATALYZED	SW 6911 CONFIDENT YELLOW		SHOP FLOOR
PLASTIC LAMINATE					
PLAM-1	WILSONART	STANDARD LAMINATE	7990 MISSION MAPLE		CASEWORK BASE AND UPPERS
PLAM-2	WILSONART	STANDARD LAMINATE	5034 HANDSPUN DOVE		COUNTERTOPS
PLAM-3	WILSONART	STANDARD LAMINATE	D379-60 INDIGO		RECEPTION IN MAIN OFFICE
PLAM-4	WILSONART	STANDARD LAMINATE	D315-60 PLATINUM		RECEPTION IN HEALTH OFFICE
POLISHED CONCRETE					
PCON-1					TYP. FLOOR
PCON-2					PLUMBING, ELECTRIC, CUSTODIAL
PCON-3					AUTOBODY
PRIVACY CURTAIN					
PC-1	ARCCOM	AQUIFER- X	CARIBBEAN # 6		NURSING LAB
PC-2	ARCHITEX	RX 6016	BASSWOOD		HEALTH OFFICE, COSMETOLOGY, VET TECH/GROOMING
QUARRY TILE					
QT-1	AMERICAN OLEAN	QUARRY NATURALS	0N46 SHADOW GRAY	6" X 6"	KITCHEN AND CULINARY
RUBBER BASE					
RB-1	ROPPE	PINNACLE COVE BASE- STANDARD TOE	139 DEEP NAVY	4"	TYP. BASE
RB-2	JOHNSONITE	VENT COVE	VCO 40 BLACK	4"	GYMNASIUM
RUBBER FLOOR					
RT-1	ROPPE	MARBLEIZED- TEXTURED	M139 DEEP NAVY	20" X 20" X 3.2MM	INTERMEDIATE LANDING
RUBBER STAIR TREAD AND RISER					
RST-1	ROPPE	MARBLEIZED- TEXTURED	M139 DEEP NAVY		STAIR TREAD AND RISER
SOLID SURFACE					
SS-1	DUPONT	CORIAN	LAGUNA TERRAZZO		MAIN OFFICE/ CAFETERIA/ GUIDANCE
SS-2	DUPONT	CORIAN	DOVE		HEALTH OFFICE/ NURSING/ SILL @ CORRIDORS/ CAFETERIA
STATIC DISSIPATIVE TILE					
SDT-1	ARMSTRONG	EXCELON SDT	51957 RIDGE	12" X 12"	IDF, SERVER ROOMS
WOOD ATHLETIC FLOORING					
WD-1	ROBBINS SPORTS SURFACES	BIO--CHANNEL STAR			GYM

3 3 3 3 3



TYP. TILE PATTERN CAFETERIA AND VENDING



1 INTERIOR ELEVATION - GENERAL CLASSROOM
AF002 1/4" = 1'-0"

DISCLAIMER NOTE

MANUFACTURER'S NAMES AND FINISH INFORMATION ARE INDICATED AS REFERENCED TO THE ARCHITECT'S BASIS-OF-DESIGN SELECTIONS AND HAVE BEEN DETERMINED PRIOR TO BID. THE CONTRACTOR AND OWNER ARE HEREBY NOTIFIED THAT FINISHES INSTALLED IN THE WORK ARE SUBJECT TO CHANGE IN RESPONSE TO SUBMITTALS, CONFIRMED SELECTIONS, PRODUCT AVAILABILITY AND THE SUBSEQUENT COORDINATION OF FINISHES BY ARCHITECT AND MAY DIFFER FROM PRODUCTS LISTED

ABBREVIATIONS

ACMU	ARCHITECTURAL CONCRETE MASONRY UNIT
ACT	ACOUSTICAL CEILING TILE
APC	ACOUSTICAL PANEL CEILING
BBT	BIO-BASED TILE
BRK	BRICK
CFT	CERAMIC FLOOR TILE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CPT	CARPET
CTB	CERAMIC TILE BASE
CWT	CERAMIC WALL TILE
EPF	EPOXY FLOOR
ETR	EXISTING TO REMAIN
EXP	EXPOSED
EXST	EXISTING
FAC/FF	FACTORY FINISH
GWB	GYPSUM WALL BOARD
HMB	HOMOGENOUS COVE BASE
HMO	HOMOGENOUS SHEET
LMC	LINEAR METAL CEILING
LVT	LUXURY VINYL TILE
MSS	MUSIC STORAGE SYSTEM
MT	METAL BASE
MWP	METAL WALL PANEL
PCON	POLISHED CONCRETE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PNT	PAINT
RAF	RESILIENT ATHLETIC FLOORING
RB	RUBBER BASE
RF	RESINOUS FLOORING
RST	RUBBER STAIR TREAD / LANDING
RT	RUBBER TILE FLOORING
SCON	SEALED CONCRETE
SS	SOLID SURFACE
SDT	STATIC DISSAPATIVE TILE
STF	SYNTHETIC TURF FLOORING
STL	STEEL
TERR	TERRAZZO
TP	TOILET PARTITIONS
TYP	TYPICAL
VCT	VINYL COMPOSITION TILE
VCTAS	VINYL COMPOSITION TILE ANTI-STATIC
VWC	VINYL WALLCOVERING
WAF	WOOD ATHLETIC FLOORING
WD	WOOD
WOM	WALK-OFF MAT

GENERAL FINISH NOTES

1. ALL EXPOSED SURFACES OF NEW PARTITIONS ARE TO BE PAINTED.
2. ALL ELECTRIC, MECHANICAL COMPONENTS AND TELEPHONE PANELS EXPOSED IN A ROOM TO MATCH WALL COLOR.
3. ALL NEW GWB CEILINGS, FASCIAS, AND SOFFITS TO BE PAINTED PNT-7, UNO.
4. ALL EXPOSED CEILING STRUCTURE, DECK, DUCTWORK, CONDUIT AND PIPING TO BE PAINTED PNT-8, UNO.
5. ALL STEEL COLUMNS IN AREAS OF WORK ARE TO BE PAINTED PNT-1.
6. ALL EXPOSED STEEL ASSOCIATED WITH STAIRS TO BE PAINTED PNT-6 , INCLUDING STRINGERS, CHANNELS, COLUMNS, PLATES, TUBES, GUARDRAILS, POSTS, UNDERSIDES OF FLOORS, LANDINGS, DECKS, AND STAIR PANS WITH THE EXCEPTION OF STAINLESS STEEL & FF, UNO.
7. NEW HM DOORS, DOOR FRAMES AND WINDOW FRAMES AND ETR CORRIDOR DOOR & WINDOW FRAMES AS SCHEDULED ON A900 SERIES DRAWINGS, PNT-6.
8. ALL EXPOSED GROUND FACE CMU LOCATIONS TO RECEIVE GRAFFITI COATING, TYPICAL FOR INTERIOR LOCATIONS.
9. ALL GYPSUM WALLS LOCATED IN CORRIDORS TO RECEIVE CWT-, UNO..

FINISH KEYS

Room Name
101
Wall Finish
Base Finish
Floor Finish
= Finish Tag

PNT-# ACCENT PAINT LOCATION

= PCON-1
= EPF-1
= RT-1
= LVT-1
= SDT-1
= CFT-1
= CFT-2
= HMO-1
= QT-1
= WD-1

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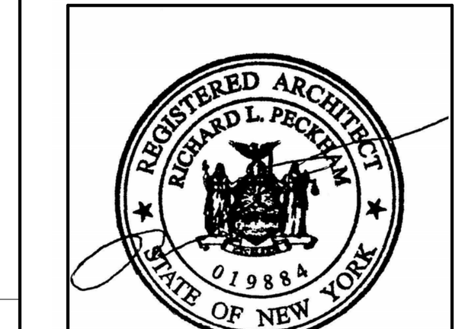
Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING



REGISTRATION EXPIRATION DATE: 12/31/2026

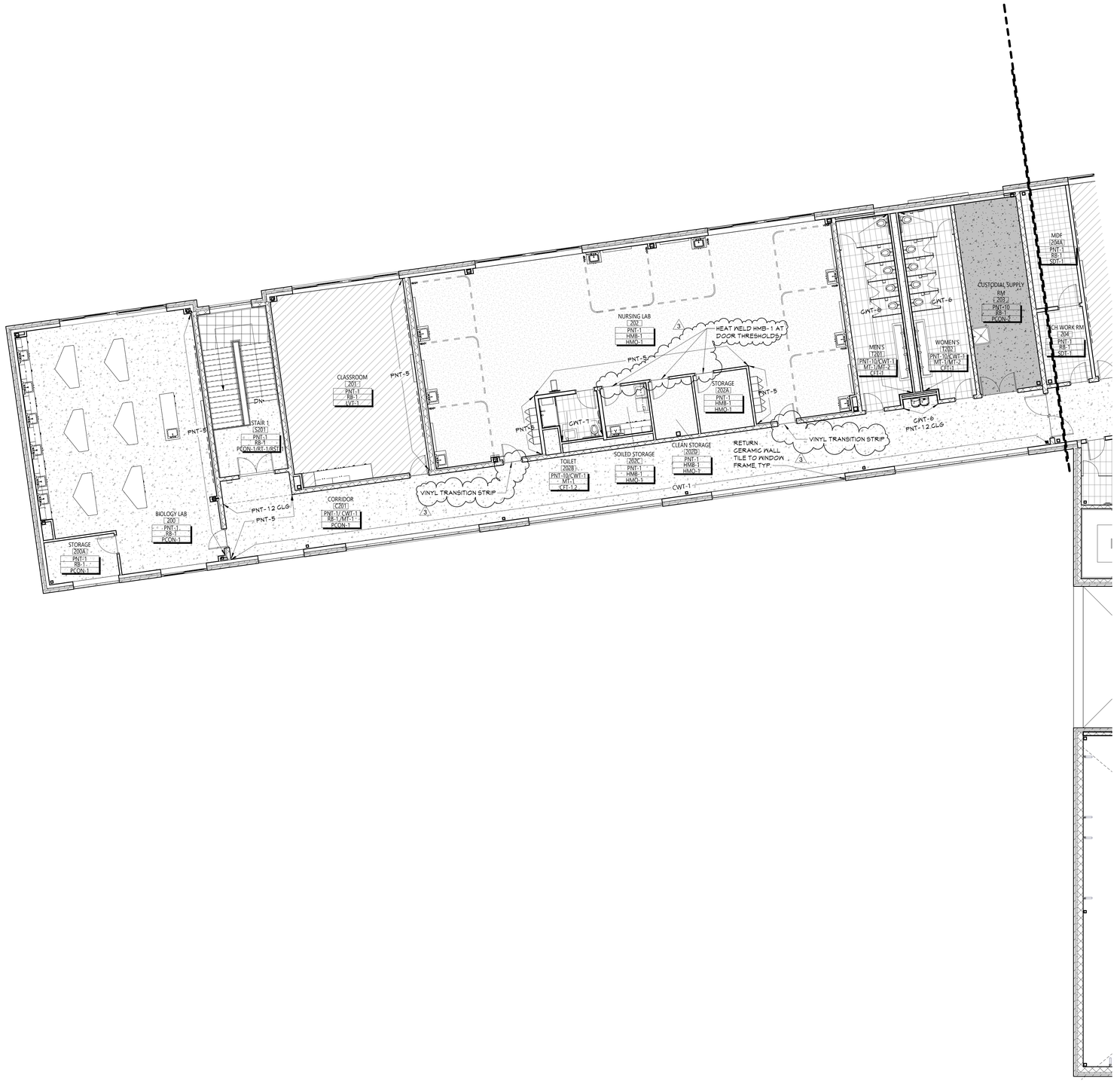
#	DATE	DESCRIPTION
3	5/13/2024	BID Addendum #3

Drawn By:	AS
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
MATERIAL LEGEND

Sheet No.
CTE AF002

CONSTRUCTION DOCUMENTS



1 PARTIAL SECOND FLOOR PLAN - AREA 1
AF121 1/8" = 1'-0"

GENERAL NOTES

1. REFER TO SHEET G001 FOR ADDITIONAL GENERAL NOTES.
2. REFER TO A600 SERIES DRAWINGS FOR ADDITIONAL DIMENSIONS AND DETAILED INFORMATION OF CABINETRY.
3. REFER TO A900 SERIES DRAWINGS FOR DOOR, STOREFRONT, CURTAINWALL, WINDOW AND LOUVER SCHEDULES, DETAILS AND NOTES.
4. REFER TO SHEET A7101 FOR PARTITION TYPES AND ADDITIONAL NOTES.

KEYNOTES

#	DESCRIPTION

DISCLAIMER NOTE

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EPF	EPOXY FLOOR
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FAC/FF	FACTORY FINISH
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MSS	MUSIC STORAGE SYSTEM
MT	METAL BASE
MWP	METAL WALL PANEL
PCON	POLISHED CONCRETE
PLAM	PLASTIC LAMINATE
PLAS	PLASTER
PNT	PAINT
RAT	RESILIENT ATHLETIC FLOORING
RB	RUBBER BASE
RF	RESINOUS FLOORING
RST	RUBBER STAIR TREAD / LANDING
RT	RUBBER TILE FLOORING
SCON	SEALED CONCRETE
SS	SOLID SURFACE
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GENERAL FINISH NOTES

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5. ALL STEEL COLUMNS IN AREAS OF WORK ARE TO BE PAINTED PNT-1.
6. ALL EXPOSED STEEL ASSOCIATED WITH STAIRS TO BE PAINTED PNT-6 , INCLUDING STRINGERS, CHANNELS, COLUMNS, PLATES, TUBES, GUARDRAILS, POSTS, UNDERSIDES OF FLOORS, LANDINGS, DECKS, AND STAIR PANS WITH THE EXCEPTION OF STAINLESS STEEL & FF, UNO.
7. NEW HM DOORS, DOOR FRAMES AND WINDOW FRAMES AND ETR CORRIDOR DOOR & WINDOW FRAMES AS SCHEDULED ON A900 SERIES DRAWINGS, PNT-6.
8. ALL EXPOSED GROUND FACE CMU LOCATIONS TO RECEIVE GRAFFITI COATING, TYPICAL FOR INTERIOR LOCATIONS.
9. ALL GYPSUM WALLS LOCATED IN CORRIDORS TO RECEIVE CWT-, UNO.

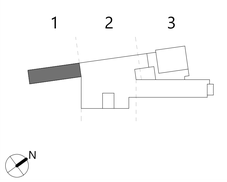
FINISH KEYS

Room Name
[101]
Wall Finish
Base Finish
Floor Finish
= Finish Tag

PNT-#
AGENT PAINT LOCATION

= PCON-1
= EPF-1
= RT-1
= LVT-1
= SDT-1
= CPT-1
= CPT-2
= HMQ-1
= QT-1
= MD-1

KEY PLAN



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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

REGISTERED ARCHITECT
RICHARD L. PROCACCINI
019859
STATE OF NEW YORK
REGISTRATION EXPIRATION DATE: 12/31/2024

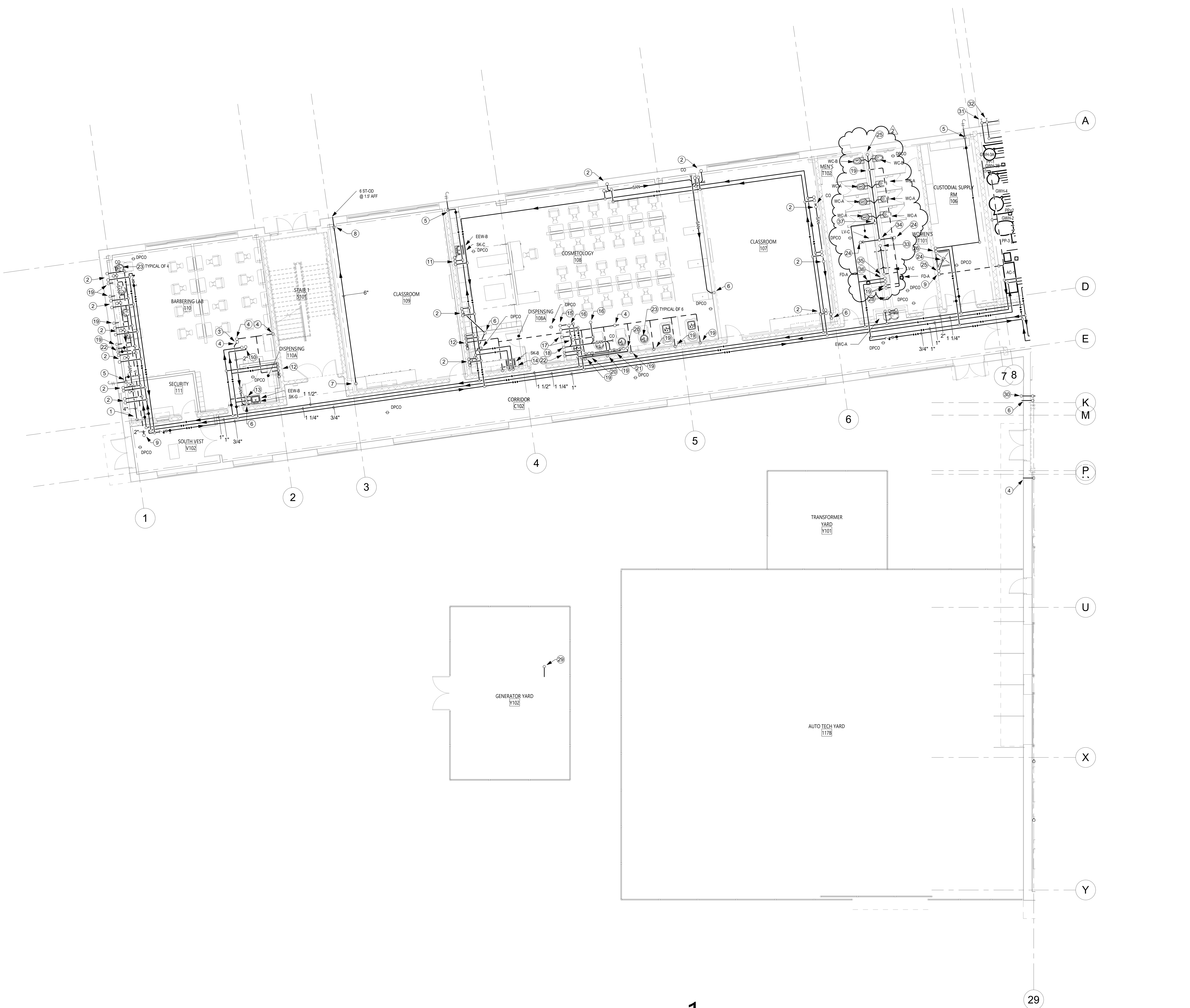
#	DATE	DESCRIPTION
3	5/13/2024	BID Addendum #3

Drawn By:	AS
Checked By:	
Proj. #:	44-16-00-01-0-053-001
CSArch Proj. #:	108-2303
Issued for Bid:	4/15/2024

Sheet Title
PARTIAL SECOND FLOOR FINISH PLAN - AREA 1

Sheet No.
CTE
AF121

CONSTRUCTION DOCUMENTS

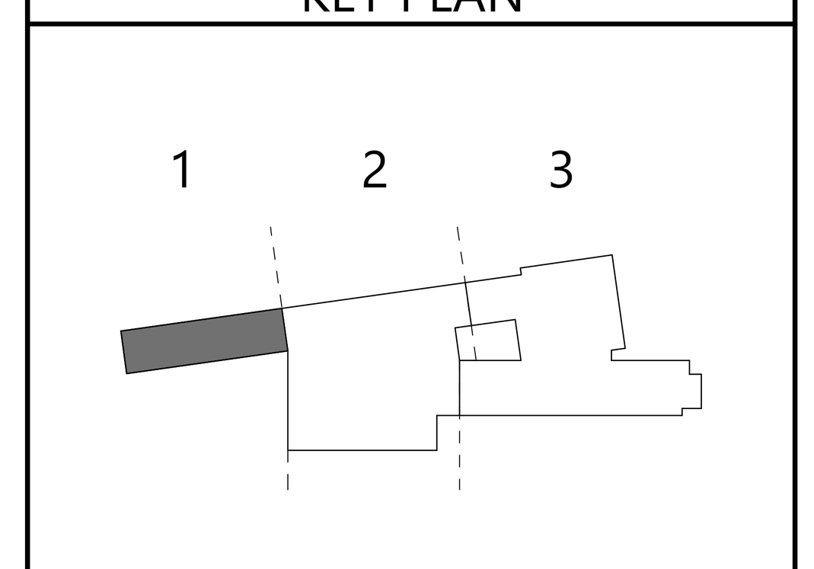


1
P111
FIRST FLOOR - AREA 1 - PLUMBING PLAN
1/8" = 1'-0"

P111 DRAWING NOTES

1 4" SANITARY DOWN
2 1-1/2" SANITARY UP; 1/2" HOT AND COLD WATER UP TO MIXING VALVE/ FAUCET SUPPLIES
3 2" SANITARY UP
4 2" VENT UP
5 3/4" COLD WATER DROP DOWN TO FROST FREE WALL HYDRANT
6 2" SANITARY DOWN
7 6" SECONDARY STORM UP
8 6" SECONDARY STORM DROP TO 1'-6" ABOVE GRADE AT EXTERIOR AND DISCHARGE OVER SPLASH BLOCK BY OTHERS. PROVIDE DOWNSPOUT AT EXTERIOR TERMINATION
9 2" VENT UP
10 1/2" HOT AND COLD WATER RISE TO MIXING VALVE/ FAUCET SUPPLIES
11 1-1/2" SANITARY UP, 2" SANITARY DOWN; 1/2" HOT AND COLD WATER DROP AND UP TO MIXING VALVE/ FAUCET SUPPLIES
12 1-1/2" SANITARY DROP, 2" DOWN, 1-1/2" VENT RISE, P-TRAP IN WALL; 1/2" HOT AND COLD WATER DROP TO WASHING MACHINE SUPPLY BOX
13 1/2" HOT AND COLD WATER DROP TO MIXING VALVE/ FAUCET SUPPLIES
14 1-1/2" SANITARY DROP, 2" DOWN, 1-1/2" VENT RISE; 1/2" HOT AND COLD WATER DROP TO MIXING VALVE/ FAUCET SUPPLIES
15 1/2" HOT AND COLD WATER UP TO SHOWER MIXING VALVE
16 2" WITH P-TRAP UP TO FLOOR DRAIN
17 1-1/2" VENT UP
18 3" SANITARY DOWN
19 2" VENT RISE
20 1-1/2" SANITARY UP; 1/2" HOT AND COLD WATER UP TO MIXING VALVE/ FAUCET SUPPLIES
21 3" SANITARY UP, 1" COLD WATER UP TO FLUSH VALVE
22 1" HOT AND COLD WATER DROP DOWN TO UNDERSLAB FOR SALON CHAIRS
23 2" SANITARY DOWN IN FLOOR WITH P-TRAP; 1/2" HOT AND COLD WATER RISE. PROVIDE HAIR TRAP SIMILAR TO STRIEM SIDEKICK PIONT OF USE SIDE ACCESS SOLIDS INTERCEPTOR IN SALON CHAIR DRAIN PIPING
24 3" SANITARY WITH P-TRAP UP
25 3" SANITARY DOWN, 3" VENT UP
26 1/2" HOT AND COLD WATER DROP AND UP
28 6" PRIMARY STORM UP AND DOWN
29 4" NATURAL GAS TO GENERATOR
30 4" NATURAL GAS DROP DOWN TO UNDERGROUND TO SUPPLY GENERATOR
31 NATURAL GAS SHUTOFF VALVE FOR GENERATOR
32 NATURAL GAS SHUTOFF VALVE FOR BUILDING
33 3" SANITARY UP AND DOWN
34 4" SANITARY UP AND DOWN
35 2" SANITARY DROP, 2" VENT RISE
36 3/4" HOT AND COLD WATER DROP AND RISE. ROUTE IN CHASE AND PROVIDE 1/2" HOT AND COLD TO MIXING VALVES/ FAUCET SUPPLIES
37 1-1/2" COLD WATER DROP AND RISE. ROUTE IN CHASE AND PROVIDE 1" CW AT EACH FLUSH VALVE

KEY PLAN



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Consultant
M/E PROJECT: 233139.00

Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT NEW CTE BUILDING

Reg. Exp: 05/31/2024
Cert. of Auth: 0018443

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CSArch Proj. #:	108-2303
Construction Documents:	4/15/2024

Sheet Title
PARTIAL FIRST FLOOR PLAN - AREA 1 - PLUMBING

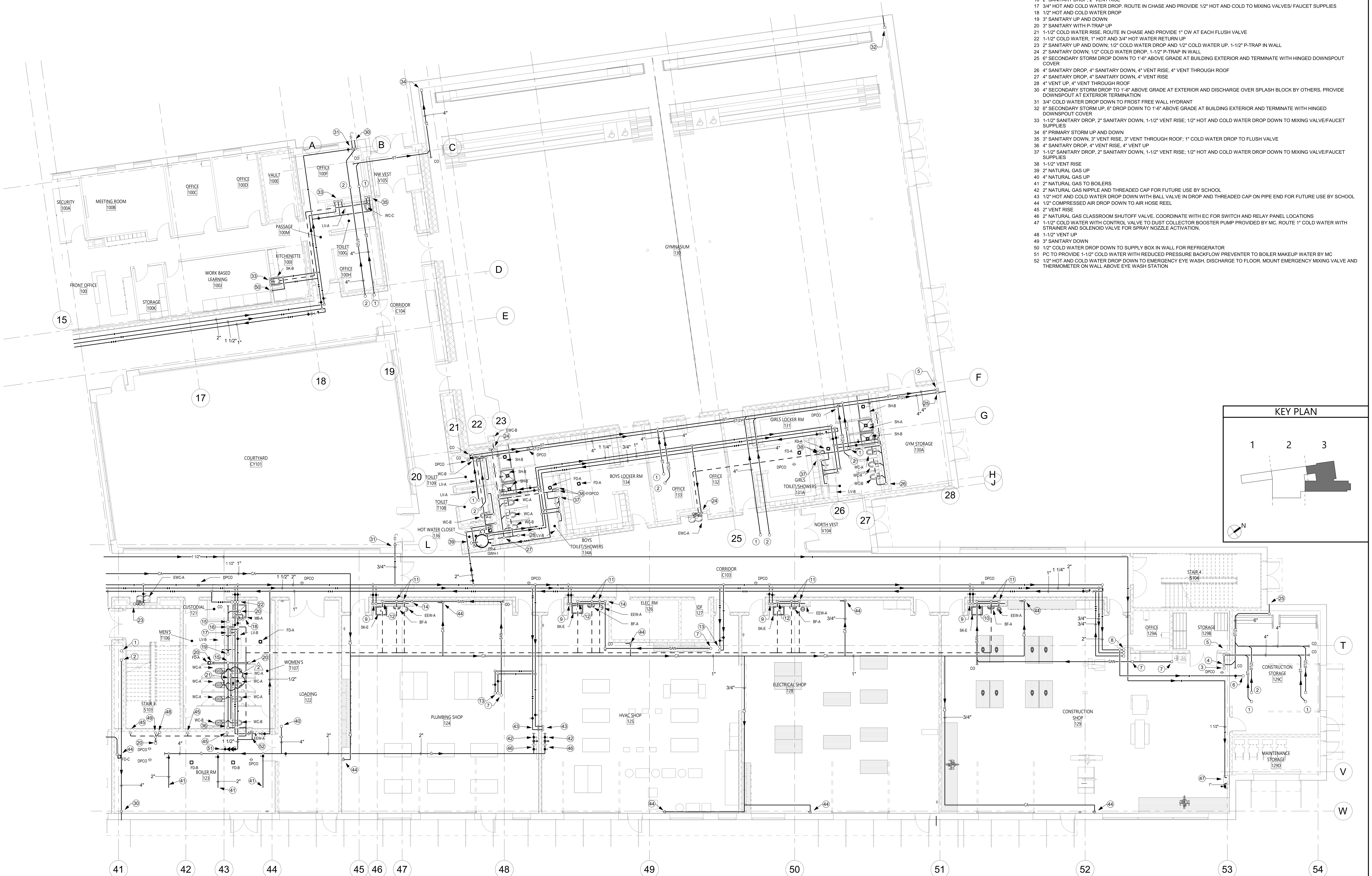
Sheet No.
CTE P111

CONSTRUCTION DOCUMENTS

Autodesk Docs://NECSD - New CTE Bldg/233139_NECSD_CTE_PL_CENTRAL_R22.rvt

P113 DRAWING NOTES

1 4" PRIMARY STORM UP
2 4" SECONDARY STORM UP
3 6" PRIMARY STORM UP
4 6" SECONDARY STORM UP
5 6" PRIMARY STORM DOWN
6 3/4" COLD WATER UP TO FROST FREE ROOF HYDRANT
7 1-1/2" SANITARY UP
8 1" COLD, 1" HOT AND 3/4" HOT WATER RECIRCULATION UP
9 3/4" HOT AND COLD WATER DROP. ROUTE IN CHASE TO MIXING VALVE/ FAUCET SUPPLIES, BOTTLE FILLER AND EYE WASH STATION. PROVIDE EMERGENCY MIXING VALVE AND THERMOMETER IN VISIBLE LOCATION AT EYE WASH STATION. ROUTE 1/2" TEPID WATER FROM MIXING VALVE TO EYE WASH STATION
10 1-1/2" SANITARY IN WALL, 2" SANITARY DROP
11 1-1/2" SANITARY DROP, 1-1/2" VENT RISE
12 1-1/2" SANITARY DROP, 2" SANITARY DOWN, 1-1/2" VENT RISE
13 1/2" HOT AND COLD WATER UP TO MIXING VALVE/ FAUCET SUPPLIES
14 1-1/2" SANITARY DROP
15 4" SANITARY UP AND DOWN
16 2" SANITARY DROP, 2" VENT RISE
17 3/4" HOT AND COLD WATER DROP. ROUTE IN CHASE AND PROVIDE 1/2" HOT AND COLD TO MIXING VALVES/ FAUCET SUPPLIES
18 1/2" HOT AND COLD WATER DROP
19 3" SANITARY UP AND DOWN
20 3" SANITARY WITH P-TRAP UP
21 1-1/2" COLD WATER RISE. ROUTE IN CHASE AND PROVIDE 1" CW AT EACH FLUSH VALVE
22 1-1/2" COLD WATER, 1" HOT AND 3/4" HOT WATER RETURN UP
23 2" SANITARY UP AND DOWN; 1/2" COLD WATER DROP AND 1/2" COLD WATER UP. 1-1/2" P-TRAP IN WALL
24 2" SANITARY DOWN; 1/2" COLD WATER DROP, 1-1/2" P-TRAP IN WALL
25 6" SECONDARY STORM DROP DOWN TO 1'-6" ABOVE GRADE AT BUILDING EXTERIOR AND TERMINATE WITH HINGED DOWNSPOUT COVER
26 4" SANITARY DROP, 4" SANITARY DOWN, 4" VENT RISE, 4" VENT THROUGH ROOF
27 4" SANITARY DROP, 4" SANITARY DOWN, 4" VENT RISE
28 4" VENT UP, 4" VENT THROUGH ROOF
30 4" SECONDARY STORM DROP TO 1'-6" ABOVE GRADE AT EXTERIOR AND DISCHARGE OVER SPLASH BLOCK BY OTHERS. PROVIDE DOWNSPOUT AT EXTERIOR TERMINATION
31 3/4" COLD WATER DROP DOWN TO FROST FREE WALL HYDRANT
32 6" SECONDARY STORM UP, 6" DROP DOWN TO 1'-6" ABOVE GRADE AT BUILDING EXTERIOR AND TERMINATE WITH HINGED DOWNSPOUT COVER
33 1-1/2" SANITARY DROP, 2" SANITARY DOWN, 1-1/2" VENT RISE; 1/2" HOT AND COLD WATER DROP DOWN TO MIXING VALVE/FAUCET SUPPLIES
34 6" PRIMARY STORM UP AND DOWN
35 3" SANITARY DOWN, 3" VENT RISE, 3" VENT THROUGH ROOF; 1" COLD WATER DROP TO FLUSH VALVE
36 4" SANITARY DROP, 4" VENT RISE, 4" VENT UP
37 1-1/2" SANITARY DROP, 2" SANITARY DOWN, 1-1/2" VENT RISE; 1/2" HOT AND COLD WATER DROP DOWN TO MIXING VALVE/FAUCET SUPPLIES
38 1-1/2" VENT RISE
39 2" NATURAL GAS UP
40 4" NATURAL GAS UP
41 2" NATURAL GAS TO BOILERS
42 2" NATURAL GAS NIPPLE AND THREADED CAP FOR FUTURE USE BY SCHOOL
43 1/2" HOT AND COLD WATER DROP DOWN WITH BALL VALVE IN DROP AND THREADED CAP ON PIPE END FOR FUTURE USE BY SCHOOL
44 1/2" COMPRESSED AIR DROP DOWN TO AIR HOSE REEL
45 2" VENT RISE
46 2" NATURAL GAS CLASSROOM SHUTOFF VALVE. COORDINATE WITH EC FOR SWITCH AND RELAY PANEL LOCATIONS
47 1-1/2" COLD WATER WITH CONTROL VALVE TO DUST COLLECTOR BOOSTER PUMP PROVIDED BY MC. ROUTE 1" COLD WATER WITH STRAINER AND SOLENOID VALVE FOR SPRAY NOZZLE ACTIVATION.
48 1-1/2" VENT UP
49 3" SANITARY DOWN
50 1/2" COLD WATER DROP DOWN TO SUPPLY BOX IN WALL FOR REFRIGERATOR
51 PC TO PROVIDE 1-1/2" COLD WATER WITH REDUCED PRESSURE BACKFLOW PREVENTER TO BOILER MAKEUP WATER BY MC
52 1/2" HOT AND COLD WATER DROP DOWN TO EMERGENCY EYE WASH. DISCHARGE TO FLOOR. MOUNT EMERGENCY MIXING VALVE AND THERMOMETER ON WALL ABOVE EYE WASH STATION



1 FIRST FLOOR - AREA 3 - PLUMBING PLAN
P113 1/8" = 1'-0"

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Consultant
M/E ENGINEERING
Mechanical/Electrical Engineering Consultants
M/E PROJECT: 233139.00

Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

Reg. Exp: 05/31/2024
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CSArch Proj. #:	108-2303
Construction Documents:	4/15/2024

Sheet Title
PARTIAL FIRST FLOOR PLAN - AREA 3 - PLUMBING

Sheet No.
CTE P113

CONSTRUCTION DOCUMENTS

P123 DRAWING NOTES

1 6" PRIMARY STORM UP
2 6" SECONDARY STORM UP
3 4" PRIMARY STORM UP
4 4" SECONDARY STORM UP
5 6" PRIMARY STORM DOWN
6 6" SECONDARY STORM DOWN
7 4" SANITARY UP AND DOWN
8 2" SANITARY DROP, 2" VENT RISE
9 2" SANITARY UP AND DOWN
10 3" SANITARY WITH P-TRAP UP
11 1/2" HOT AND COLD WATER DROP AND UP
12 4" VENT UP AND DOWN
13 4" SECONDARY STORM UP AND DOWN
14 4" PRIMARY STORM UP AND DOWN
15 1/2" COLD WATER UP AND DOWN; 1/2" COLD WATER TO FIXTURE SUPPLY VALVE
16 3/4" COLD WATER FROST FREE ROOF HYDRANT
17 4" VENT THROUGH ROOF
18 4" HOT WATER EXHAUST AIR WITH DOWN TURNED ELBOW
19 4" HOT WATER HEATER AIR INTAKE WITH ELBOW TURNED DOWN
20 1-1/2" SANITARY DOWN, 1-1/2" VENT RISE; 1/2" HOT AND COLD WATER RISE FROM BELOW
21 1-1/2" COLD WATER DROP AND UP. ROUTE IN CHASE AND PROVIDE 1" CW AT EACH FLUSH VALVE
22 3/4" HOT AND COLD WATER DROP AND UP. ROUTE IN CHASE AND PROVIDE 1/2" HW & CW TO EACH FAUCET SUPPLY
23 1-1/2" COLD AND 1" HOT WATER; 3/4" HOT RETURN WATER RISE WITH BALANCING STATION
24 3" VENT THROUGH ROOF
25 1-1/2" SANITARY, 1/2" HOT AND COLD WATER UP
26 3/4" COLD WATER UP TO FROST FREE ROOF HYDRANT
27 3" VENT UP, 3" VENT THROUGH ROOF
28 1-1/2" SANITARY DOWN, 1-1/2" VENT RISE, 1/2" HOT AND COLD WATER DROP TO MIXING VALVE/ FAUCET SUPPLIES
29 2" SANITARY DOWN, 1-1/2" VENT RISE, 1/2" HOT AND COLD WATER DROP TO MIXING VALVE/ FAUCET SUPPLIES
30 1" COLD WATER, 1" HOT WATER AND 3/4" HOT WATER RETURN RISE
31 4" NATURAL GAS UP AND DOWN
32 2" NATURAL GAS DOWN
33 2" NATURAL GAS UP
34 1-1/2" VENT RISE
35 1/2" COLD WATER UP
36 3/4" DROP WITH SHUTOFF VALVE TO INTERIOR HOSE BIB
37 1/2" HOT AND COLD WATER DROP DOWN TO EMERGENCY EYE WASH. DISCHARGE TO FLOOR. MOUNT EMERGENCY MIXING VALVE AND THERMOMETER ON WALL ABOVE EYE WASH STATION

1
P123
SECOND FLOOR - AREA 3 - PLUMBING PLAN
1/8" = 1'-0"

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Project Title
NEWBURGH ENLARGED CITY SCHOOL DISTRICT
NEW CTE BUILDING

STATE OF NEW YORK · MICHAEL K. SULLIVAN · 077887-1 · LICENSED PROFESSIONAL ENGINEER
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#	DATE	DESCRIPTION
2	5/13/2024	BID Addendum #3

Drawn By:	MT
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Sheet Title
PARTIAL SECOND FLOOR PLAN - AREA 3 - PLUMBING

Sheet No.
CTE P123

CONSTRUCTION DOCUMENTS