BUNCOMBE COUNTY GENERAL SERVICES DEPARTMENT 40 McMORMICK PLACE ASHEVILLE, NC 28801 (828) 250-4235

BID DATE:

Monday, November 20, 2023

DATE OF ADDENDUM: Thursday, December 14, 2023

ADDENDUM NUMBER: A

TO THE DRAWINGS AND SPECIFICATIONS FOR:

SPORTS PARK - NEW RESTROOM BUILDING & WATERLINE EXTENSION BUNCOMBE COUNTY, NORTH CAROLINA

TO ALL BIDDERS:

THIS ADDENDUM, MODIFYING THE ORIGINAL CONTRACT DRAWINGS AND SPECIFICATIONS, SHALL BE TAKEN INTO ACCOUNT IN PREPARING PROPOSALS, AND IS HEREBY MADE A PART OF THE CONTRACT DOCUMENTS.

<u>To summarize: The bulk of this Addendum includes the following major topics:</u> 1. SPECIFICATIONS

a. The **revision** of the Bid Form includes the addition of Allowance 1 and Unit Price 1 as described below.

2. DRAWINGS

- a. **Revision** of Civil drawings to clarify the location of the access road.
- b. Revision of the Architectural drawings and Sheet specifications clarifying comments/questions regarding the Contractor Use of Site, Ceiling Materials, Metal Panel wall and soffit materials, Door Hardware and general finishes.
- c. **Revision** of the MEP drawings to clarify electrical service to the new building from existing transformer and power for the electrical box heater indicated in the Civil documents.

GENERAL CLARIFICATION

Item 1 - Attached are the **Pre-bid Meeting minutes**, and attendance sheet for your information. Questions brought up at the Pre-bid meeting, along with their respective answers, are included in Item 2 below. **See Appendix A**.

The following questions were asked by contractors ahead of the deadline:

 Item 2 - Question: Will an MSD Permit allowance be provided?
 Answer: Plans have already been submitted to the County for Plan Review/Approval so by the time the contract is signed it will be a matter of putting the project under the Contractor's name. An Allowance of \$2,000.00 will be included on the Bid Form. The Permit fee – to be paid by the successful bidder - is \$5,700.

Question: Will there be water access once it is shut off?

Answer: Temporary water shut-off must be coordinated with the County. The existing waterline does services other buildings within the park. The contractor must supply a portable toilet for the construction site per code. The county will provide portable toilets for park guests while the water to the permanent restrooms is interrupted.

Question: Will the main road be closed off for construction? **Answer**: The road may be temporarily blocked to deliver materials. The road must be always passable and open to the public.Temporary shutdowns of the road must be coordinated with the County. During work, GC shall provide a flagger/spotter to direct park traffic.

Question: How do contractors reach the site for delivering materials? **Answer**: There is a road that goes behind the back light poles on the top parking lot, following around the soccer fields to reach the site. The road will not be graveled, but can be used to bring materials in. Contractors will be responsible for repairs if the area is damaged due to use.

Question: Who will be completing the inspections for this project? **Answer**: The park is within city limits, but Buncombe County has the authority so they will be responsible for the inspections (Bob Haynes and Jason Rogers)

Question: Are dump trailers able to be left on the property? **Answer**: Yes, if those are within fenced-in areas.

SPECIFICATIONS REVISION CLARIFICATION

Deleted text is indicated with a strikethrough (e.g. strikethrough) and new text is indicated with boldface type (e.g. **boldface**).

Item 1 - Section 00 30 00 BID FORM

<u>Revise</u> Update Bid Form to include the below items: A. Allowance 1 : MSD Permits: Refer to Bid Form B. Unit Price 1 - Unsuitable Soil: Refer to Bid Form

DRAWINGS REVISION CLARIFICATION

- Item 1 <u>Revised</u> (C2). Remove "Construction Access Gravel Road" shown on the west side of the proposed restroom facility. The Construction access is shown on sheet G100 in the Contractor Use of Site Plan and is to run parallel to the east side of the field.
- Item 2 <u>Revised</u> (C3). Remove "Construction Access Gravel Road" shown on the west side of the proposed restroom facility. The Construction access is shown on sheet G100 in the Contractor Use of Site Plan and is to run parallel to the east side of the field.
- Item 3 <u>Revised</u> (C4). Remove "Construction Access Gravel Road" shown on the west side of the proposed restroom facility. The Construction access is shown on sheet G100 in the Contractor Use of Site Plan and is to run parallel to the east side of the field.
- Item 4 <u>Added</u> (**REF3**). Added Reference Sheet REF3 showing the accessible path from the north parking lot to the new restroom building.
- Item 5 <u>Revised</u> (G100). Revised Sheet List to include added sheet REF3, for reference only, showing the accessible route of travel from the north parking lot to the new restroom building. Updated Contractor Use of Site Plan to clarify location of Lay Down by the North Parking Lot.
- Item 6 <u>Revised</u> (A001). SPECIFICATIONS

Section 07 62 00 Sheet Metal Flashing and Trim ALUMINUM SOFFITS

- A. Approved Manufacturers:
 4. "MRS FLUSH SEAM (12")"; Metal Roofing Systems, (704-820-3110)
- Item 7 <u>Revised</u> (A002). SPECIFICATIONS

Section 07 42 13 METAL WALL PANEL

ACCEPTABLE MANUFACTURERS

A. Approved Manufacturers:

2. MRS Board & Batten Panel, 12" coverage, Metal Roofing Systems (704-820-3110), 7670 Mikron Road Stanley, NC 28164, https://www.metalroofingsystems.com/

Section 09 29 00 GYPSUM BOARD

MOLD-RESISTANT FIBERGLASS MAT FACED GYPSUM BOARD: A. Basis of Design: Gold Bond Building Products, LLC, Gold Bond® eXP® Interior Extreme® Gypsum Panel, provided by National Gypsum Company. SUBJECT TO COMPLIANCE WITH

REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:

- a. GEORGIA-PACIFIC BUILDING PRODUCTS.
- b. CertainTeed Gypsum.
- c. UNITED STATES GYPSUM (USG) CORPORATION.
- B. Thickness: 5/8"
- C. Core: Regular.
- D. Edges: Tapered
- E. Mold/Mildew Resistance: ASTM D3273; Score of 10.
- Item 8 <u>Revised</u> (A101). Ceiling Plan Legend revised to Finished Fiberglass Mat Faced Gypsum Board Ceiling in lieu of Cement Board Ceiling.
- Item 9 <u>Revised</u> (A103). Added door hardware sets. Updated Finish Legend and General notes.
- Item 10 <u>Revised</u> (P1). Site plan added for reference.
- Item 11 <u>Revised</u> (P2). Water pipe sizes clarified.
- Item 12 <u>Revised</u> (P3). Detail clarification.
- Item 13 <u>Revised</u> (M2). Modified a wall heater location and the inline exhaust fan location to avoid interference from the plumbing chair carriers.
- Item 14 <u>Revised</u> (E3). Added a site plan for reference and the existing panel schedule where the hot box heater is powered.

Ronnie Lunsford, PEM General Services Department Facilities/Project Manager

END OF ADDENDUM

Appendix A Pre-Bid Meeting, Minutes and Attendance Sheet ATTENDEES:

PROJECT NUMBER:	2022090
PROJECT:	Buncombe County Sports Park Restroom & Waterline Extension
DATE:	11/29/23 TIME: 11:00 AM
LOCATION:	Buncombe County Sports Park – Project Site

<u>Name</u>	<u>Company</u>
Ronnie Lunsford, Facilities/PM	Buncombe Co General Services Department
Joseph Guseman	Buncombe County Parks and Rec
Courtney Mason	Domokur (DA)
Michael Domokur, RA	Domokur (DA)
Barry Jackson	Providence Construction Group
Laron Huntley	HNH Construction
Lauren Bartholomew	J. Bartholomew Construction
Jennifer Burrows	B. Allen Construction
Maxwell DeHoll	Modern Mountain Builders
Joshua Smathers	Smathers Contracting

PROJECTED PROJECT COMPLETION DATE:

DISCUSSION ITEMS:

1. Agenda Review

- a. Bid administration information:
 - Questions during bidding must be submitted in writing. They may be submitted to Michael Tabeling (<u>mtabeling@domokur.com</u>) prior to the deadline, December 12, 2023, at 3pm. An addendum will be issued by Thursday, December 14 at 3pm.

TBD

- ii. Bid submission due date is Tuesday, December 19, 2023, at 3pm at 30 Valley Street, Asheville, NC 28801. Bids must be hand delivered at the due date and time. This is an open bid so contractors may stay to hear the bids as they are presented.
- iii. Lunsford noted that the selected contractor will be notified with a Notice to Proceed, however, the Commissioners will have to approve the contracts which may not happen until their first meeting in January.
- iv. Anticipated start date is February 2024.
- v. The park will remain open during construction and work should be completed Monday-Friday 7am-5pm. Arrangements may be made to work outside of this schedule but work on the weekends is not ideal due to the amount of activity surrounding the site. Trash pickup is also required on a regular basis. No construction debris should be left around site.
- vi. All materials, machinery, vehicles, trailers, etc., should always be kept secure. This area does have crime and contractors are responsible for securing materials.

2. Contractor Questions

DOMOKUR ARCHITECTS

- a. Will an MSD Permit allowance be provided?
 - i. Plans have already been submitted to the County for Plan Review/Approval so by the time the contract is signed it will be a matter of putting the project under the Contractor's name.
 - 1. An Allowance of \$2,000.00 will be included on the Bid Form.
 - 2. The Permit fee to be paid by the successful bidder is \$5,700.
- b. Will there be water access once it is shut off?

Akron Brevard Chicago 866.795.4391

- i. Temporary water shut-off must be coordinated with the County. The existing waterline does services other buildings within the park.
- ii. The contractor must supply a portable toilet for the construction site per code. The county will provide portable toilets for park guests while the water to the permanent restrooms is interrupted.

www.domokur.com

JUMOKIIL

- c. Will the main road be closed off for construction?
 - i. The road may be temporarily blocked to deliver materials.
 - ii. The road must be always passable and open to the public.
 - iii. Temporary shutdowns of the road must be coordinated with the County. During work, GC shall provide a flagger/spotter to direct park traffic.
- d. How do contractors reach the site for delivering materials?
 - i. There is a road that goes behind the back light poles on the top parking lot, follow around the soccer fields to reach the site. The road will not be graveled, but can be used to bring materials in. Contractors will be responsible for repairs if the area is damaged due to use.
- e. Who will be completing the inspections for this project?
 - The park is within city limits, but Buncombe County has the authority so they will be responsible for the inspections (Bob Haynes and Jason Rogers)
- f. Are dump trailers able to be left on the property?
 - Yes, if those are within fenced-in areas.

The meeting ended at 11:35 am.

INFORMATION OR ACTION REQUIRED:

DA

- Highlight proposed parking areas on Contractor Use of Site Plan
- Publish an Addendum to cover items above.

Lunsford

- Soil report will be provided. A unit price for unsuitable soils to be included in the Bid Documents.
- Dates for future soccer tournaments which may impact work schedule will be provided to the successful Bidder.

ATTACHMENTS: None

These meeting notes reflect the author's interpretation and record of the discussion. Please bring any errors or inconsistencies in these minutes to the attention of the office of the Architect, in writing, before the next meeting.

Prepared by: Domokur Architects, Courtney Mason

C: All attendees Lynn Pegg, Rec Prog Mgr., Buncombe Co Rec Services Gary Davis, DavisCivil Solutions Ben Poss, Kloesel Engineering Tilden White, Tilden White & Assoc Mike Domokur, Owner, Domokur Architects

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PROJECT: New Restroom Bldg & Waterline Extension

DATE: 11/29/23

TIME: 11:00 AM

DATE:	11/29/23	TIME: 11:00 AM	the present the top
INITL	NAME	COMPANY	CONTACT INFORMATION
CM	Courtney	Domokur Architects	PH: 330.714.4414 CELL: 330.714.4414 FAX: EMAIL: MUSDIN Odomokur. Jon
BJ	Barry Jackson	Providence Construction Grou	ENAL: DATY STRACKEEU
LH	Laron Huntley	HWH Construction	PH: CELL: 828-713-8664 FAX: EMAIL: Ihuntley@HNHConstruction CO. COM
LB	Univer Bartholmer	S. Bartholamen Censt	EMAIL: LAWYEN CONT. Org
gm	Jennifi Burrows	B. Alten Const.	PH: 828-645-8479 CELL: FAX: EMAIL:00/10030 CbullSocothinet PH: 828-989 - 1004
MD	Maxwell Dettall	Modern Mountain Builders	CELL: FAX: EMAIL: Info @ Modern Mountain Builders. Com
ZS	Justien	Smathers Contracting	PH: 828-400-7027 CELL: FAX: EMAIL: joshsmatheri(.com PH: 828-489-2929
36	Jose Ph Guscman	Barks and Rec	CELL: FAX: EMAIL: Joseth Guscom Cobumonbecanty, ory
MD			PH: , , , , CELL: FAX: EMAIL:
Konnie			PH: CELL: FAX: EMAIL:
			PH: CELL: FAX: EMAIL:

Appendix B Revised Specifications

1. BID FORM



PEOPLE TO MATCH OUR MOUNTAINS NORTH CAROLINA

Ronnie Lunsford Facilities and Project Manager

003000

Bid Form

ADDENDUM NO. 1

Project:New Restroom & Waterline ExtensionLocation:Buncombe County Sports Park

Bidder Name: _____

Date: _____, 2023

The undersigned, as Bidder, hereby declares that the only person or persons interested in this Proposal as principal or principals is or are named herein and that no other person than herein mentioned has any interest in this Proposal or in the Contract to be entered into; that this Proposal is made without connection with any other person, company or parties making a bid or proposal; and that it is in all respects fair and in good faith without collusion or fraud. The Bidder further declares that he has examined the site of the work and the Contract Documents relative thereto and has read all special provisions furnished prior to the opening of bids; that he has satisfied himself relative to the work to be performed.

The Bidder proposes and agrees if this Proposal is accepted to contract with Buncombe County in the Form of Contract specified, to furnish all necessary materials, equipment, machinery, tools, apparatus, means of transportation and labor necessary to construct the New Restroom Building & Waterline Extension in full and complete accordance with the Plans, Specifications, and Contract Documents, to the full and entire satisfaction of Buncombe County and/or Engineer, with a definite understanding that no money will be allowed for extra work except as set forth in the any and all project documents, for the Sum of:

Base Bid:

(Written amount)
_____Dollars:______



e. Ronald.Lunsford@buncombecounty.org p. (828) 250-4235 c. (828) 775-0853

buncombecounty.org



Ronnie Lunsford Facilities and Project Manager

Allowance 1 – Include Lump Sum Allowance of \$2,000.00 for MSD Permit. NOTE: Allowance amounts are fixed, and no entry of data is required by the Bidder. Include Allowance amount in the Base Bid. Allowance must be included in the Base Bid and NOT as a separate dollar amount.

Unit Price 1 – Unforeseen Additional Excavation and Replacement with Controlled Earth Fill as determined by the on-site soils engineer.

The Unit Price shall include the cost to remove and dispose of unforeseen debris, uncompacted or loose fill, etc. and to replace the removed unforeseen additional excavation with controlled earth fill. The Unit Price shall also include the cost of surveys, calculations, drawings, etc., required to document the extent of the excavations and to determine the total cost for this Work.

Unit of Measurement: Cubic yard of excavation and controlled fill.

(Written amount)
_____Dollars:_____per Cubic Yard

Time of Completion: _____ Consecutive Calendar Days

The undersigned agrees that substitutions will not be made without written approval of the Owner and/or Engineer and then for the reason to improve the quality of the work and to furnish savings in cost to the Owner.

Addenda have been received as follows:

Addendum #_____ Date: _____

Addendum #____ Date: _____

e. Ronald.Lunsford@buncombecounty.org p. (828) 250-4235 c. (828) 775-0853



buncombecounty.org

General Services



Ronnie Lunsford Facilities and Project Manager

The undersigned further agrees to begin work promptly after a Notice to Proceed with an adequate force, provide a construction schedule of all work tasks to be performed, carry the work forward as rapidly as possible, and complete the entire project within the number of days specified herein.

It is directly understood that Buncombe County reserves the unqualified right to reject any and all bids should it be deemed in the best interest of the Owner.

Name of Bidder:	
Signature:	Date:
Title:	
Date Proposal Executed:	, 2023.
License No.:	



Appendix C

Revised Drawings

SHEET C2
 SHEET C3
 SHEET C4
 SHEET C4
 SHEET G100
 SHEET A001
 SHEET A002
 SHEET A101
 SHEET A103
 SHEET P1
 SHEET P2
 SHEET P3
 SHEET M2
 SHEET E3



SPORTS PARK - NEW RESTROOM BUILDING & WATERLINE EXTENSION

PREPARED FOR

BUNCOMBE COUNTY, NORTH CAROLINA

GENERAL SERVICES DEPARTMENT 40 McMORMICK PLACE, ASHEVILLE, NC 28801

G

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LIST OF APPLICABLE CODES

CODE SUMMARY

THE FOLLOWING CODES SHALL APPLY TO THIS PROJECT BASED ON ITS GEOGRAPHICAL LOCATION: BUILDING CODE: 2015 INTERNATIONAL BUILDING CODE WITH 2018 NC AMENDMENTS ACCESSIBILITY CODE: 2015 INTERNATIONAL BUILDING CODE WITH 2018 NC AMENDMENTS PLUMBING SYSTEMS: 2015 INTERNATIONAL PLUMBING CODE WITH 2018 NC AMENDMENTS MECHANICAL SYSTEMS: 2015 INTERNATIONAL MECHANICAL CODE WITH 2018 NC AMENDMENTS ELECTRICAL SYSTEMS:

2017 NATIONAL ELECTRICAL CODE WITH NC AMENDMENTS ENERGY CODE:

2015 INTERNATIONAL ENERGY CODE WITH 2018 NC AMENDMENTS FUEL AND GAS:

2015 INTERNATIONAL FUEL GAS CODE WITH 2018 NC AMENDMENTS

OCCUPANCY U **CONSTRUCTION CLASSIFICATION TYPE 5B BUILDING AREA BUILDING HEIGHT** ALLOWABLE AREA = 5,500 GSF ALLOWABLE HEIGHT = 1-STORY @ 40' RESTROOM AREA = 737 SF RESTROOM; 479 PATIO; TOTAL 1,216 GSF RESTROOM HT = 1-STORY @ 15'-0"

OCCUPANCY & PLUMBING FIXTURE COUNT TOTAL OCCUPANCY: 0 PEOPLE

PROVIDED FIXTURES MALE WATER CLOSETS = 1 ACCESSIBLE (1 TOTAL) MALE URINALS = 1 ACCESSIBLE (1 TOTAL) MALE LAVATORIES = 1 ACCESSIBLE (1 TOTAL) FEMALE WATER CLOSETS = 3 STANDARD 1 ACCESSIBLE (4 TOTAL) FEMALE LAVATORIES = 2 ACCESSIBLE (2 TOTAL) FAMILY RESTROOM 1 ACCESSIBLE WATER CLOSET

1 ACCESSIBLE LAVATORY ELECTRIC WATER COOLER = 2 (HI-LO WITH WATER BOTTLE FILLER) MOP SINK = 1ENERGY CONSERVATION THERMAL PROPERTY CALCULATIONS ARE

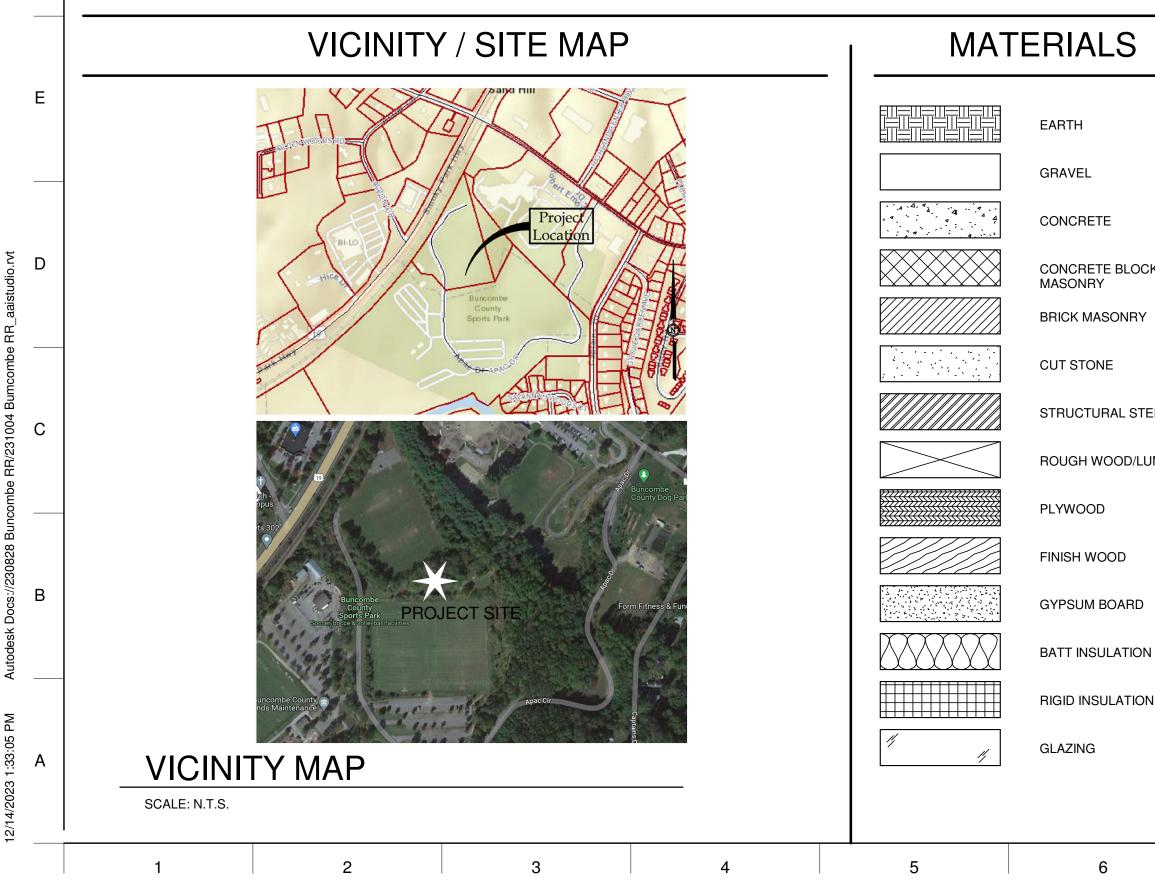
NOT PROVIDED SINCE THIS BUILDING IS NOT INSULATED.

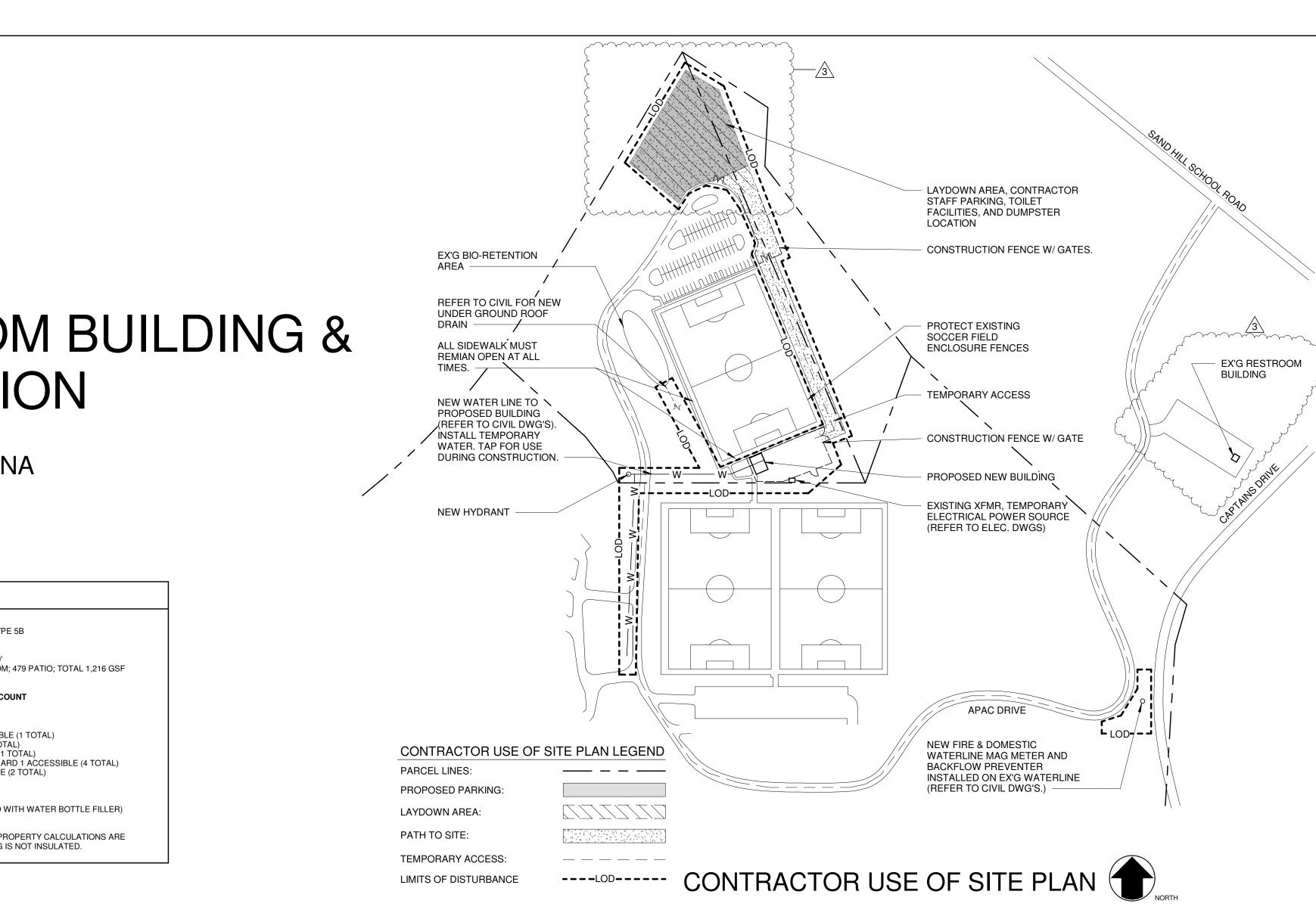
CIVIL ENGINEER DAVIS CIVIL SOLUTIONS, PA

134 CHARLOTTE HWY A, ASHEVILLE, NC 28803 (828) 299-9449

STRUCTURAL ENGINEER KLOESEL ENGINEERING, PA

8 MAGNOLIA AVE., SUITE 100, ASHEVILLE, NC 28801 (828) 255-0780





DOMOKUR ARCHITECTS

MECHANICAL ENGINEER **TILDEN WHITE & ASSOCIATES PLLC** 15 W. WALNUT ST #202, ASHEVILLE, NC 28801 (828) 255-4327

)	ABBREVIATIONS		I SYM	BOLS	1	DRAWIN	G INDEX	
	ACOUS. ACOUSTICAL A.F.F. ABOVE FINISH FLOOR	INSUL. INSULATION JT. JOINT	ROOM NAME	ROOM NAME & NUMBER	G100	TITLE SHEET, VICINITY MAP, DRAWING INDEX		MBING DETAILS
	ALT. ALTERNATE ALUM. ALUMINUM (ALSO 'AL') @ AT BD. BOARD	MANF'R. MANUFACTURER (ALSO 'MFR.') M.C. MECHANICAL CONTRACTOR	000	DOOR NUMBER	C1 C2 C3	EXISTING CONDITIONS LAYOUT GRADING-STORMWATER-EROSION	SCH	EDULES HANICAL PLAN
	BRG. BEARING BLKG. BLOCKING CLG. CEILING	M.H. MANHOLE M.O. MASONRY OPENING MFG. MANUFACTURING		WALL TYPE	C4 C4A	CONTROL UTILITIES UTILITIES ENLARGED DETAIL	E2 ELE	CTRICAL NOTES & SCHEDULES CTRICAL PLAN ER DIAGRAM AND PANEL
ЭСК	CL CENTERLINE COL. COLUMN CONC. CONCRETE CONT. CONTINUOUS	MAX. MAXIMUM MECH. MECHANICAL MTL. METAL MIN. MINIMUM	0 0'-00"	CEILING HEIGHT/TYPE	D1 D2 D3	DETAILS DETAILS DETAILS		EDULES
ΥY	CJ CONTROL JOINT DET. DETAIL DIA. DIAMETER	NOM. NOMINAL N.I.C. NOT IN CONTRACT N.T.S. NOT TO SCALE	$\langle A \rangle$	WINDOW TYPE	D4 D5 D6	DETAILS DETAILS DETAILS		
STEEL/METAL	DN DOWN D.S. DOWN SPOUT DWG(S). DRAWING(S) EA. EACH E.C. ELECTRICAL CONTRACTOR ELEC. ELECTRICAL	O/ ON OR OVER O.C. ON CENTER P.C. PLUMBING CONTRACTOR PL. LAM. PLASTIC LAMINATE (ALSO 'PL') PLUMB. PLUMBING		INTERIOR ELEVATION REFERENCE	D7 REF-1 BEF-2 REF-3 S000	DETAILS BCSP SYNTHETIC TURF FIELD BCSP SYNTHETIC TURF FIELD BCSP SYNTHETIC TURF FIELD STRUCTURAL NOTES		
/LUMBER	E.P. ELECTRICAL PANEL E.T.R. EXISTING TO REMAIN E.W. EACH WAY E.W.C. ELECTRIC WATER COOLER ELEV. ELEVATION (ALSO 'EL.')	+/- PLUS OR MINUS P PROPERTY LINE PLYWD. PLYWOOD REINF. REINFORCING R RISER R.D. ROOF DRAIN	00 A000	EXTERIOR ELEVATION REFERENCE	S100 S101 S102 S200	FOUNDATION PLAN ROOF FRAMING PLAN EXPOSED TRUSS ELEVATIONS FOUNDATION SECTIONS & DETAILS		
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ND ON	ON BRACKET F.E.C. FIRE EXTINGUISHER IN CABINET F.D. FLOOR DRAIN F.P.C. FIRE PROTECTION	ST. STEEL (ALSO 'STL') STRUCT. STRUCTURAL S.O.G. SLAB ON GRADE SUSP. SUSPENDED T TREAD		SECTION CUT	A001 A002 A003	SPECIFICATIONS SPECIFICATIONS SPECIFICATIONS		
ION	CONTRACTOR FRT FIRE RETARDANT TREATED FTG. FOOTING F.V. FIELD VERIFY	T.O.F.TOP OF FOOTINGT.O.M.TOP OF MASONRYT.O.S.TOP OF STEELTYP.TYPICAL	A000	REFERENCE	A100 A101 A102 A103	FLOOR PLAN AND ELEVATIONS BUILDING SECTIONS & RCP WALL SECTIONS AND DETAILS SCHEDULES AND DETAILS		
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	7 8	9	10	11	12	13	14	15

ELECTRICAL ENGINEER

TILDEN WHITE & ASSOCIATES PLLC

15 W. WALNUT ST #202, ASHEVILLE, NC 28801 (828) 255-4327

GENERAL SITE PLAN NOTES

- A. THIS DRAWING IS PROVIDED AS AN OVERALL SITE REFRENCE PLAN. SOME ELEMENTS HAVE BEEN INTENTIONALLY LEFT OFF FOR CLARITY, REFER TO OTHER CONSTRUCTION DOCUMENT DRAWINGS FOR SITE GRADING, LAYOUT, UTILITIES, ELECTRICAL, AND OTHER REQUIREMENTS. ALL ELEMENTS ARE NEW UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE ROUTING OF ALL UTILITIES TO ENSURE REQUIRED CLEARANCES AND UNOBSTRUCTED PATHS.
- C. CONTRACTOR IS RESPONSIBLE FOR PATCHING AND REPAIRING ANY DISTURBED AREAS AND AREAS IN WHICH THEY DAMAGE DURING CONSTRUCTION.

CONTRACTOR USE OF SITE NOTES

- A. CONTRACTOR TO PROVIDE ADEQUATE AND SUBSTANTIAL PROVISIONS TO PROTECT THE BUILDING AND FINISHED SURFACES SCHEDULED TO REMAIN FROM DAMAGE DURING DELIVERY OF EQUIPMENT AND DISPOSAL OF MATERIALS. ALL DAMAGED SURFACES SHALL BE RESTORED TO THEIR ORIGINAL CONDITION.
- LAWN AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED BY THE G.C. TO MATCH THEIR ORIGINAL CONDITION.
- SIDEWALK DAMAGED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED BY G.C. W/ CONSTRUCTION MATCHING EXISTING ADJACENT CONSTRUCTION. SAWCUT DAMAGED SIDEWALK MATERIALS AT NEAREST CONTROL JOINT OUTSIDE OF DAMAGED AREAS.
- ALL EX'G SIDEWALKS AND PEDESTRIAN PATHWAYS TO REMAIN OPEN AT ALL TIMES. ANY REQ'D CROSSING OF SAME MUST BE REVIEWED WITH OWNER 48 HRS. IN ADVANCE.
- VEHICLE PAVEMENTS DAMAGED BY CONSTRUCTION SHALL BE RESTORED BY THE G.C. W/ CONSTRUCTION MATCHING EXISTING ADJACENT CONDITIONS. SAWCUT EXISTING ROADWAY PAVEMENTS AT SOUND MATERIALS OUTSIDE OF DAMAGED AREAS.
- F. PROVIDE STORMWATER INLET PROTECTION TO MEET ALL LOCAL STORMWATER PROTECTION AS REQUIRED.
- G. G.C. TO CONTRACT WITH PRIVATE UTILITY LOCATING SERVICE TO IDENTIFY AND MARK EXISTING SITE UTILITIES.
- H. DUMPSTERS SHALL BE LIMITED TO WITHIN TEMPORARY FENCE ENCLOSURE.
- I. SECURE SITE FROM THE PUBLIC DURING CONSTRUCTION. G.C. TO ALLOW OWNER ACCESS AT ALL TIMES.
- J. REFER TO CIVIL FOR TREE PROTECTION.

BUNCOMBE COUNTY SPORTS PARK **RESTROOM BUILDING**

58 APAC DRIVE ASHEVILLE, NC

Prepared For BUNCOMBE COUNTY

58 APAC DRIVE, ASHEVILLE,

DOMOKUR ARCHITECTS

4651 Medina Road

Akron, Ohio 44321-1315

p 330.666.7878

43 South Broad Street, Suite 201

Brevard, North Carolina 28712-3738 p 828.884.8478

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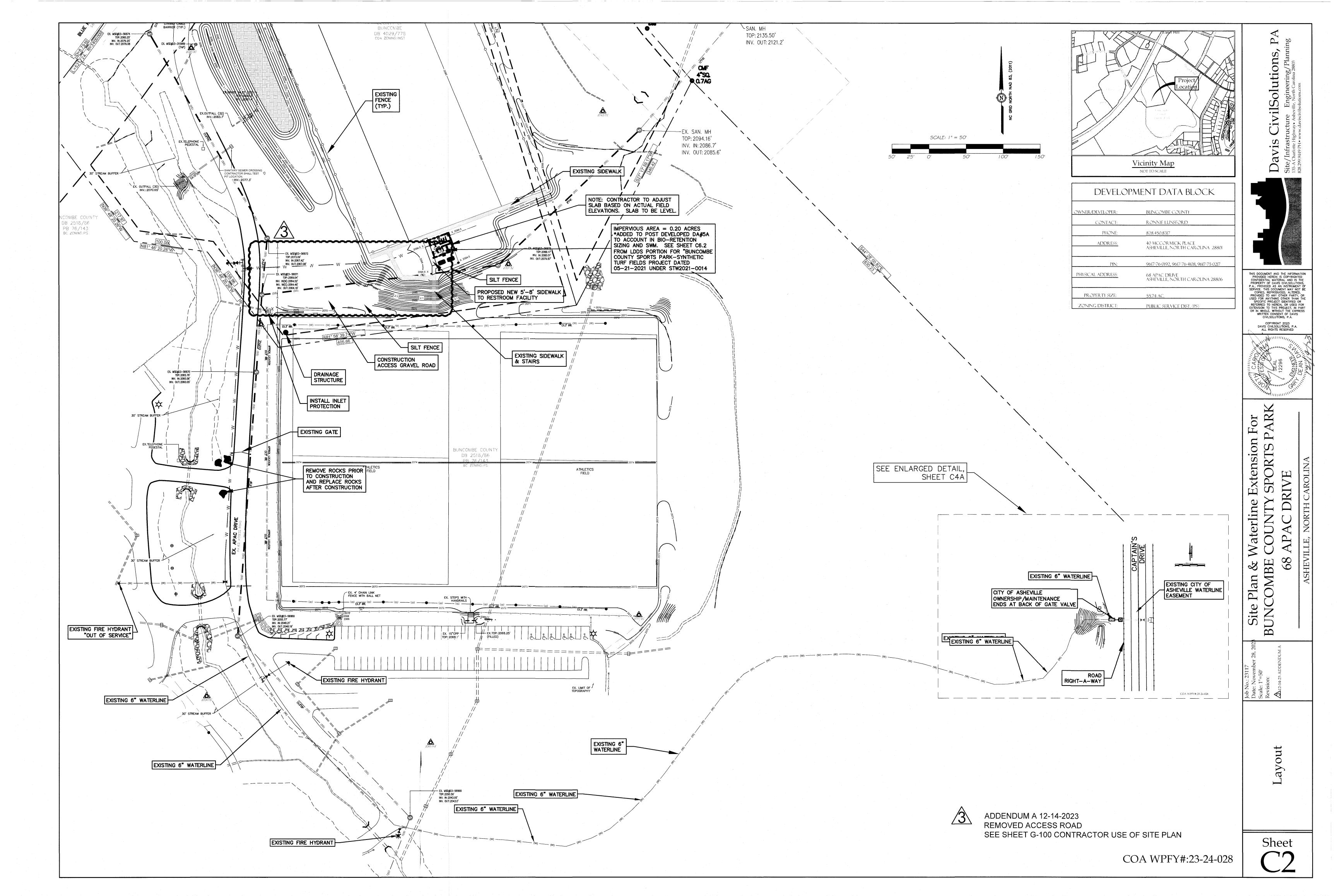


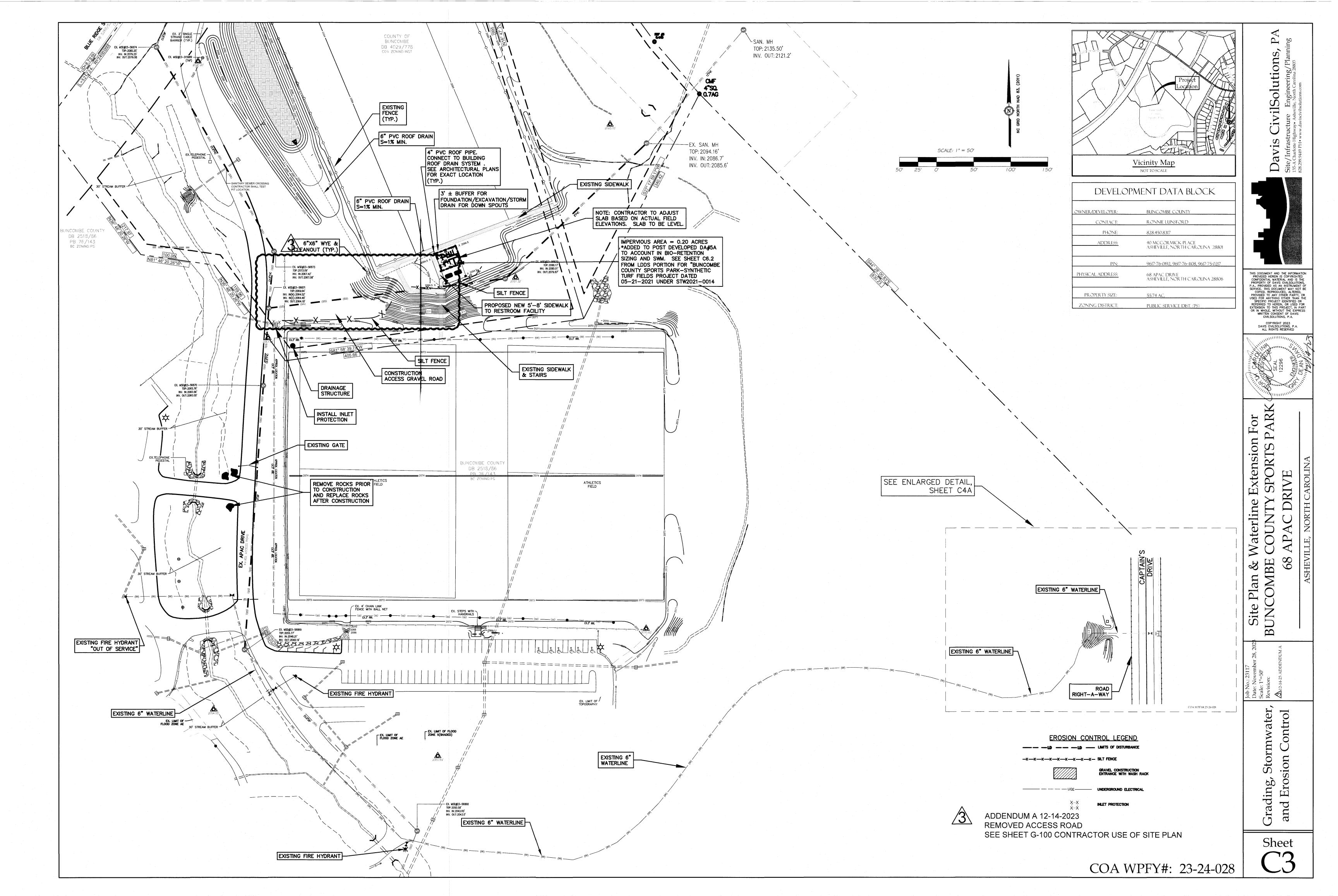
Issue	Date	Description	
1	11/17/2023	ISSUED FOR BID AND PERMIT	
2	12/07/2023	CORRECTION LETTER 1	
3	12/14/2023	ADDENDUM A	
TITLE SHEET, VICINITY MAP, DRAWING			

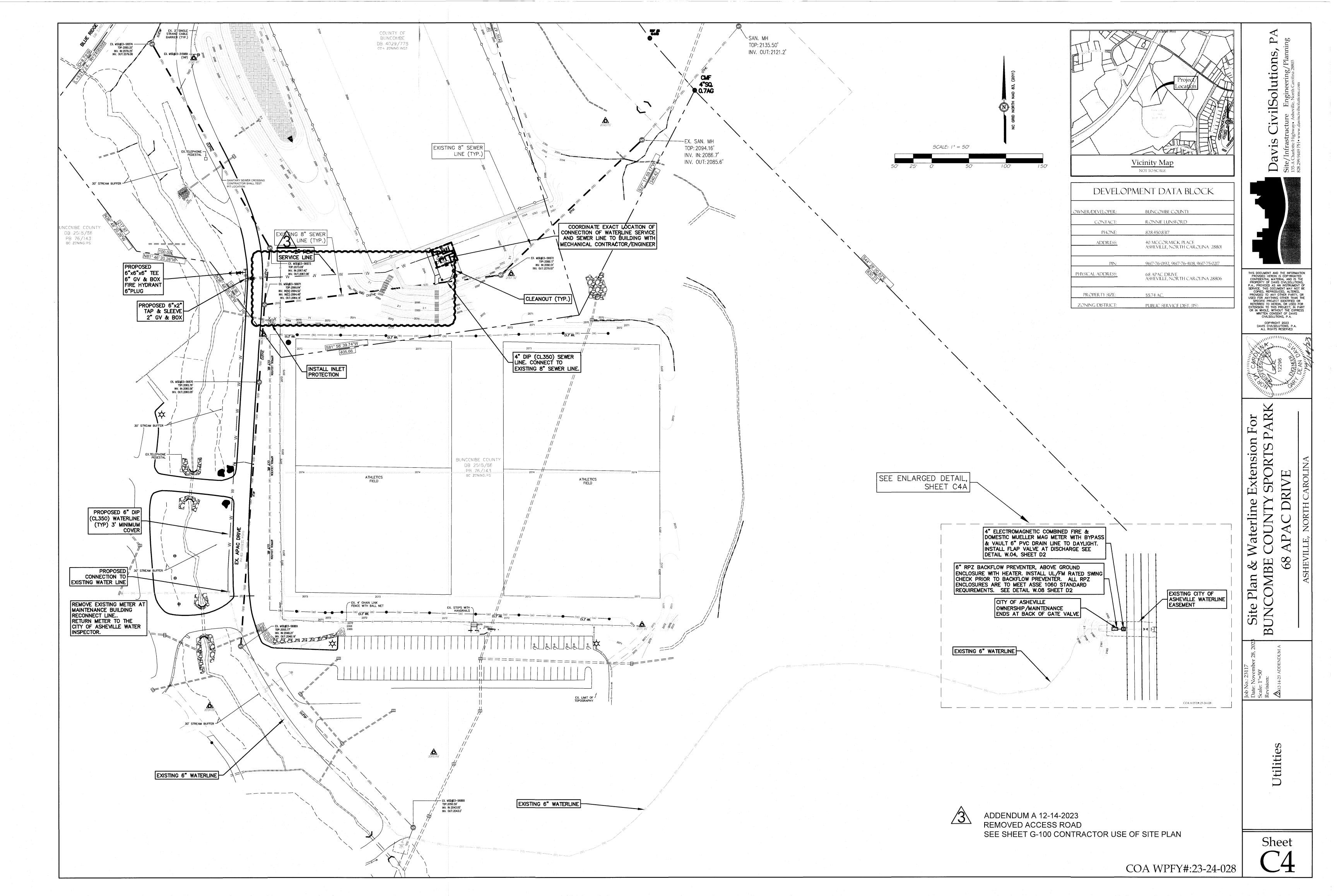
TITLE SHEET, VICINITY MAP, DRAWING INDEX

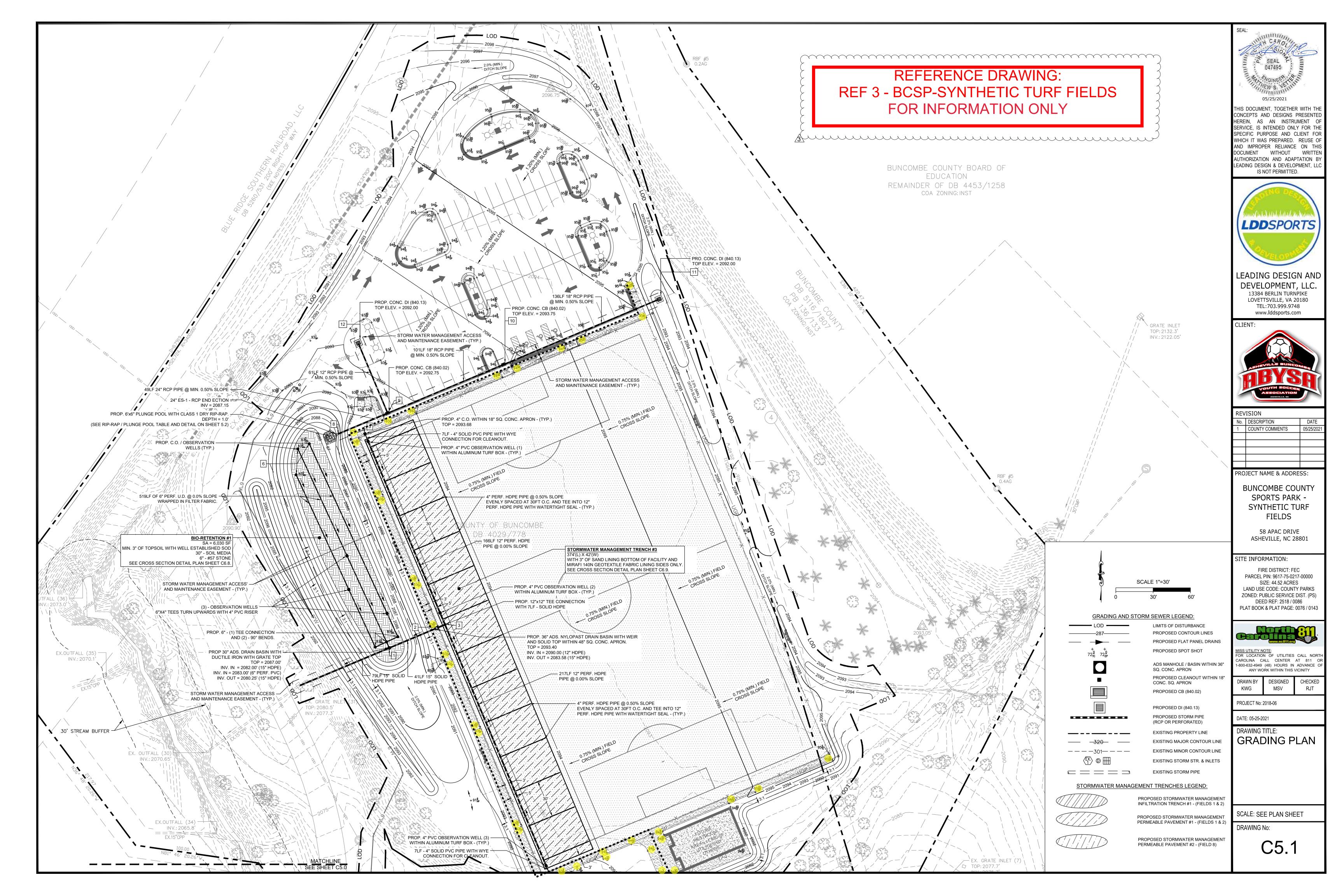
Project No: 2022 Project Manager: MTT 2022090 Drawn By:











	SECTION 013300 - SUBMITTAL PROCEDURES	
	SUBMIT AT A MINIMUM THE PRODUCT DATA, SAMPLES, DIGITAL SHOP DRAWINGS (AS APPLICABLE), AND WARRANTIES FOR EACH OF THE MATERIALS/SYSTEMS TO BE INSTALLED	<u>s</u> U
N	INCLUDING BUT NOT LIMITED TO THE FOLLOWING. A. CONCRETE B. CONCRETE FINISHES	A W A
	C. CONCRETE REINFORCEMENT D. MASONRY AND ACCESSORIES	B
	E. MANUFACTURED STONE VENEER F. STRUCTURAL LUMBER G. PREFABRICATED WOOD TRUSSES	A
	H. WATERPROOFING I. ASPHALT SHINGLES J. FORMED METAL WALL PANELS	P B F
	K. SOFFIT PANELS L. SHEET METAL FLASHING AND TRIM M. JOINT SEALANTS	L/ C
м	N. HOLLOW METAL DOORS AND FRAMES O. DOOR HARDWARE	A B C
	P. EXTERIOR PAINTING Q. STAINING AND TRANSPARENT FINISHING	D
	REFER TO DISCIPLINE DRAWINGS AND SPECIFIATIONS FOR DETAILED SUBMITTAL REQUIREMENTS.	P C
	PROVIDE MOCK-UPS WHERE INDICATED AND RECEIVE APPROVAL PRIOR TO PROCEDING WITH INSTALLATION OF THE ASSOCIATED SYSTEM	<u>S</u>
	SECTION 016000 - PRODUCT REQUIREMENTS	
L	PROVIDE PRODUCTS THAT COMPLY WITH THE CONTRACT DOCUMENTS, ARE UNDAMAGED AND ARE NEW AT TIME OF INSTALLATION.	
	PROVIDE PRODUCTS COMPLETE WITH ACCESSORIES, TRIM, FINISH, FASTENERS, AND OTHER ITEMS NEEDED FOR A COMPLETE INSTALLATION AND INDICATED USE AND EFFECT.	P
	WHERE THE CONTRACT DOCUMENTS NAME A BASIS OF DESIGN WITH COMPARABLE MANUFACTURERS, PROVIDE THE NAMED PRODUCT THAT COMPLIES WITH REQUIREMENTS.	A
	COMPARABLE PRODUCTS OR SUBSTITUTIONS FOR CONTRACTOR'S CONVENIENCE WILL NOT BE CONSIDERED WITHOUT OWNER APPROVAL.	В
	UNLESS INDICATED OTHERWISE SEE FINISH SCHEDULE FOR SPECIFIC PRODUCTS USED.	
к	SUBMITTALS.	
	DELIVERY, STORAGE, AND HANDLING SHALL BE PER MANUFACTURER'S REQUIREMENTS. COMPLY WITH MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS FOR	
	TRANSPORTATION, DELIVERY AND HANDLING. TRANSPORT PRODUCTS BY METHODS TO AVOID PRODUCT DAMAGE AND PROMPTLY INSPECT PRODUCTS ON DELIVERY TO ENSURE THAT PRODUCTS COMPLY WITH CONTRACT DOCUMENTS, QUANTITIES ARE CORRECT, AND TO	
	ENSURE THAT PRODUCTS ARE UNDAMAGED AND PROPERLY PROTECTED.	
	STORE AND PROTECT PRODUCTS IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS, WITH SEALS AND LABELS INTACT AND LEGIBLE.	N A
J	SECTION 017300 - EXECUTION	
	INSTALL PRODUCTS AND EQUIPMENT PER MANUFACTURER'S WRITTEN INSTRUCTIONS AND APPROVED SHOP DRAWINGS.	B C
	BEFORE PROCEEDING WITH EACH COMPONENT OF THE WORK, EXAMINE SUBSTRATES, AREAS, AND CONDITIONS, WITH INSTALLER OR APPLICATOR PRESENT WHERE INDICATED, FOR COMPLIANCE WITH REQUIREMENTS FOR INSTALLATION TOLERANCES AND OTHER CONDITIONS	D
	AFFECTING PERFORMANCE. RECORD OBSERVATIONS. IF CONDITIONS ARE FOUND TO BE INCONSISTENT WITH CONSTRUCTION DOCUMENTS BRING THE ISSUE TO THE ATTENTION OF	
	THE ARCHITECT BEFORE PROCEEDING WITH INSTALLATION. MAINTAIN PROJECT SITE FREE OF WASTE MATERIALS AND DEBRIS.	
н	COMPLY WITH MANUFACTURERS WRITTEN INSTRUCTIONS FOR AMBIENT TEMPERATURE AND RELATIVE HUMIDITY REQUIREMENTS DURING HANDLING, STORAGE, AND INSTALLATION. AFTER	
	INSTALLATION AND UNTIL SUBSTANTIAL COMPLETION, MAINTAIN AMBIENT TEMPERATURES WITHIN RANGE RECOMMENDED BY MANUFACTURER.	
	IN THE EVENT THAT CONTRACTOR ENCOUNTERS ON THE PROJECT SITE MATERIAL REASONABLY BELIEVED TO BE ASBESTOS, POLYCHLORINATED BIPHENYL (PCB), OR OTHER	
	HAZARDOUS MATERIALS WHICH HAVE NOT BEEN RENDERED HARMLESS, THE CONTRACTOR SHALL IMMEDIATELY STOP WORK IN THE AREA AND CONTACT THE OWNER'S REPRESENTATIVE.	E
	TAKE ALL MEASURES NECESSARY TO PRESERVE AND PROTECT EXISTING AND COMPLETED WORK FREE FROM DAMAGE, DETERIORATION, SOILING AND STAINING, UNTIL ACCEPTANCE BY THE OWNER'S REPRESENTATIVE.	G
G	SECTION 017700 - CLOSEOUT PROCEDURES	~
	DEFINITION: SUBSTANTIAL COMPLETION SHALL BE THE DATE ON WHICH ALL WORK, OTHER THAN CORRECTION OF MINOR DEFICIENCIES, IS SUFFICIENTLY COMPLETE AND IN	
	ACCORDANCE WITH THE CONTRACT DOCUMENTS TO THE POINT WHERE ALL REQUIRED INSPECTIONS ARE COMPLETE, THE CERTIFICATE OF OCCUPANCY (AND ALL OTHER ASSOCIATED APPROVALS) HAS BEEN ISSUED, AND THE OWNER IS ABLE TO UTILIZE THE	В
	BUILDING(S) OR SPACES(S) FOR THEIR INTENDED PURPOSE. PRELIMINARY PROCEDURES: BEFORE REQUESTING INSPECTION FOR DETERMINING DATE OF SUBSTANTIAL COMPLETION, COMPLETE AND SUBMIT THE FOLLOWING TO THE ARCHITECT. LIST	C D
	ITEMS BELOW THAT ARE INCOMPLETE IN REQUEST.	
F	A. PREPARE A LIST OF ITEMS TO BE COMPLETED AND CORRECTED (PUNCH LIST), THE VALUE OF ITEMS ON THE LIST (STATED IN A DOLLAR AMOUNT VALUE), AND REASONS WHY THE WORK IS NOT COMPLETE. THE ARCHITECT HAS THE OPTION TO REVIEW AND	E
	MAKE REVISIONS TO THE VALUES THE CONTRACTOR ASSIGNS TO EACH PUNCH LIST ITEM.	
	 THE GENERAL CONTRACTOR SHALL INITIATE AND PREPARE THE WRITTEN PUNCH LIST TO BE ISSUED TO THE OWNER AND ARCHITECT. FAILURE TO INCLUDE AN ITEM ON THE PUNCH LIST DOES NOT ALTER THE 	
	RESPONSIBILITY OF THE CONTRACTOR TO COMPLETE ALL WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.	<u>s</u>
	 ITEMS MAY BE ADDED TO THE PUNCH LIST UNTIL FINAL PAYMENT IS MADE TO THE CONTRACTOR. ITEMS WHICH REQUIRE ATTENTION DURING THE PUNCH LIST COMPLETION PERIOD AND WHICH ARE CONSIDERED BY THE CONTRACTOR TO BE 	S
E	"MAINTENANCE ITEMS" MUST ALSO BE COMPLETED <u>PRIOR</u> TO FINAL COMPLETION. B. APPLICATION FOR PAYMENT FOR 100 PERCENT COMPLETION. LESS RETAINAGE AND	S
	LESS THE DOLLAR AMOUNT VALUE FOR COMPLETION OF PUNCH LIST ITEMS. THIS MAY BE SUBMITTED AFTER SUBSTANTIAL COMPLETION. C. ADVISE OWNER OF PENDING INSURANCE CHANGEOVER REQUIREMENTS.	Â
	D. OBTAIN AND SUBMIT RELEASES PERMITTING OWNER UNRESTRICTED USE OF THE WORK AND ACCESS TO SERVICES AND UTILITIES. INCLUDE OCCUPANCY PERMITS,	A
	OPERATING CERTIFICATES, AND SIMILAR RELEASES. E. COMPLETE STARTUP TESTING OF SYSTEMS. F. TERMINATE AND REMOVE TEMPORARY FACILITIES FROM PROJECT SITE, ALONG WITH	
	MOCKUPS, CONSTRUCTION TOOLS, AND SIMILAR ELEMENTS. G. SUBMIT CHANGEOVER INFORMATION RELATED TO OWNER'S OCCUPANCY, USE, OPERATION, AND MAINTENANCE.	
D	 H. COMPLETE FINAL CLEANING REQUIREMENTS, INCLUDING TOUCH-UP PAINTING. I. TOUCH-UP AND OTHERWISE REPAIR AND RESTORE MARRED EXPOSED FINISHES TO ELIMINATE VISUAL DEFECTS. 	N
	J. COORDINATE WITH OWNER'S PERSONNEL FOR FINAL CHANGEOVER OF TEMPORARY LOCKS TO PERMANENT LOCKS. ADVISE OWNER'S PERSONNEL OF CHANGEOVER IN	A
	SECURITY PROVISIONS. K. ADVISE OWNER OF CHANGEOVER IN HEAT, VENTILATING AND AIR CONDITIONING AND OTHER UTILITIES.	
	AT THE END OF THE PROJECT, UPON RECEIPT OF THE CERTIFICATE OF SUBSTANTIAL COMPLETION, PROVIDE A CD, DVD, OR THUMB DRIVE (DEPENDING ON SIZE) CONTAINING THE	
	FOLLOWING PROJECT RECORD DOCUMENTS IN DIGITAL PDF FORMAT:	
C	 A. RECORD DRAWINGS (MARK UP INDICATING ACTUAL INSTALLATIONS IN RED WHERE INSTALLATION VARIES FROM ORIGINALLY SHOWN AND SCAN DRAWING IN COLOR) B. RECORD PRODUCT DATA (SEE SECTION 013300 - SUBMITTAL PROCEDURES FOR 	
	PRODUCTS REQUIRING SUBMITTALS) C. OPERATION AND MAINTENANCE MANUALS D. CONTRACTOR WARRANTIES	
	SUBMIT EXTRA STOCK MATERIALS AS STATED WITHIN INDIVIDUAL SPECIFICATION SECTIONS.	A M S
	PROVIDE FINAL CLEANING. CONDUCT CLEANING AND WASTE-REMOVAL OPERATIONS TO COMPLY WITH LOCAL LAWS AND ORDINANCES AND FEDERAL AND LOCAL ENVIRONMENTAL AND	C
	ANTIPOLLUTION REGULATIONS. THE GENERAL CONTRACTOR SHALL EMPLOY PROFESSIONAL CLEANERS WITH A MINIMUM OF FIVE YEARS COMMERCIAL CLEANING EXPERIENCE OF PROJECTS OF SIMILAR SIZE FOR FINAL CLEANING, INCLUDING A SEPARATE PROFESSIONAL	n N M
B	COMMERCIAL WINDOW WASHER. CLEAN EACH SURFACE OR UNIT TO CONDITION EXPECTED IN AN AVERAGE COMMERCIAL BUILDING CLEANING AND MAINTENANCE PROGRAM. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.	A B
		C D
A		

SECTION 033950 - CURING, SEALING & HARDENING CONCRETE FLOORS

JNDER THIS SECTION OF THE SPECIFICATIONS THE CONTRACTOR SHALL FURNISH ALL LABOR AND MATERIALS REQUIRED TO COMPLETE THE FOLLOWING ITEMS OF WORK IN ACCORDANCE ITH THE DRAWINGS AND SPECIFICATIONS: SINGLE APPLICATION CURE SEAL HARDENER FOR CONCRETE FLOORS PRECAUTIONS FOR AVOIDING STAINING CONCRETE BEFORE AND AFTER APPLICATION.

SUBMITTALS: SEE SECTION 013300

PRODUCTS BASIS OF DESIGN: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS FROM THE FOLLOWING MANUFACTURER: PROSOCO, INC., 3741 GREENWAY CIRCLE. LAWRENCE. KS 66046. PHONE: (800) 255-4255: FAX: (785) 830-9797. E-MAIL: CUSTOMERCARE@PROSOCO.COM



PROTECTION: PROTECT INSTALLED FLOORS UNTIL CHEMICAL REACTION PROCESS IS COMPLETE PER MANUFACTURER'S RECOMMENDATION.

SECTION 042313 - GLASS UNIT MASONRY

- A. A. Work included: 3. 1. Hollow Glass block, or solid glass brick.
- . 2. Mortar. Integral joint reinforcing and anchors
- Expansion and Packing materials Sealant

PART 2 PRODUCTS

A. A	vailable Manufacturers: Subject to compliance with requirements, manufacturers offering
proc	ducts that may be incorporated into the Work include, but are not limited to, the following:
1.	Seves Glass Block Inc., 10576 Broadview Rd, Cleveland, Ohio 44147, 440-627-6257 or 87
	SEVES11 (877-738-3711), www.sevesglassblockinc.com inquiry@sevesglassblock.com
2.	Approved equal.

- GLASSUNITS 1. Glass Block Units
- A. Texture: Smooth B. Color: Frosted white
- 2. Actual Sizes: 7-1/2" x 7-1/2" x 3-1/8" Inch Heat Transmission U-Value (BTU/hr ft2 °F): .53
- Thermal Resistance R-value: 1.89
- Privacy: Maximum Visible Light Transmission: 80%
- Shading Coefficient: 90.80 Sound Transmission S.T.C. (dB): 37
- Solar Heat Gain Coefficient: 79
- 10. Edge Coating White Latex base or PVB.

MORTAR MATERIALS

- A. Portland Cement: ASTM C 150, Type I or Type II, natural color, white, or a blend top roduce mortar color indicated . Where joints are indicated to be raked out and pointed, gray cement may be used for setting
- B. Hydrated Lime: ASTM C 207, Type S. C. Portland Cement-Lime Mix: Packaged blend of Portland cement complying with ASTM C 150, Type
- I or Type III, and hydrated lime complying with ASTM C 207, Type S. Shall be prepared according to ASTM C270 for Type S Mortar. Mortar to have 1 part Portland Cement (Type 1), ¹/₂ part lime and 2-1/2 to 3 parts of fine sand passing No. 20 sieve and free of iron compounds to avoid stains. Use white Portland Cement and silica sand for white joints. Mix mortar drier than normal and only an amount that will be used in 30-60 min. Glass block will not absorb water the same as brick. Do not use re-tempered mortar.
- 1. Portland Cement: Type I in accordance with ASTM C150. If a waterproof Portland Cement is used, the integral type waterproofer shall be omitted. (Masonry Cement is not recommended) Color: Gray
- 2. Lime: Shall be a dolomitic pressure-hydrated lime, special hydrate, Type S, in accordance with ASTM C207.
- 8. Sand: A clean, white quartzite or silica type, essentially free of iron compounds, in accordance with ASTM C144, not less than 100% passing a No. 8 sieve. . Integral Type Water-repellent. Stearate type by Sonneborn Building Products (Hydrocide powder, I-800-243-6739), or equal. Add hydrocide powder to dry mortar mix. Do not add powder to wet
- mortar mix. a. Lehigh Cement
- b. SPEC MIX. c. Approved equal.
- Water: Potable.
- ASS UNIT MASONRY ACCESSORIES
- Panel Reinforcement: Ladder-type units, butt welded, not lapped and welded; complying with ASTM A 951 in straight lengths of not less than 10 feet, and as follows: Stainless Steel wire
- Wire Size: W1.7 or 0.148-inch diameter.
- Width: 1-5/8 inches Spacing of Cross Rods: Not more than 16 inches apart.
- Fasteners, General: Unless otherwise indicated, provide Type 304 or Type 316 stainless-steel fasteners at exterior walls and zinc-plated fasteners with coating complying with ASTM B 633, Class
- Fe/Zn 5, at interior walls. Select fasteners for type, grade, and class required. Asphalt Emulsion: Cold-applied asphalt emulsion complying with ASTM D 1187 or ASTM D 1227. Sealants: Manufacturer's standard chemically curing, elastomeric sealants that comply with applicable
- requirements in Section 079200 "Joint Sealants."
- Single-component, non-sag urethane sealant. Provide interior sealants that have a VOC content of 250 g/L or less when calculated according to 40 CFR 59. Subpart D (EPA Method 24).
- Sealant Accessories: Provide sealant accessories, including primers, bond-breaker tape, and cylindrical sealant backing, that comply with applicable requirements in Section 079200 "Joint Sealants", and as follows: Expansion Strips / Compressible Filler: 3/8 inch by 1/2 inches polyethylene foam or glass fiber.
- Panel Anchors: 20 gauge X 1-5/8" X 16" stainless steel with staggered perforations. Triangular Anchors: Stainless Steel Triangular wire tie type. 3/16 inch, lengths as indicated on the Drawings.

SECTION 047300 - MANUFACTURED STONE VENEER

SECTION INCLUDES A. CULTURED STONE VENEER

B. ARCHITECTURAL TRIM STONE.

SUBMITTALS: SEE SECTION 013300

- UALITY ASSURANCE: MOCK-UP: PROVIDE A MOCK-UP FOR EVALUATION OF SURFACE PREPARATION TECHNIQUES AND APPLICATION WORKMANSHIP PRIOR TO COMPLETION OF STONE VENER
- INSTALLATION. INSTALL MOCK-UP ON AN INCONSPICUOUS BUILDING ELEVATION.
- MINIMUM SIZE 3 FOOT BY 3 FOOT AND SHOWING TRANSITION TO ADJACENT MATERIALS ANTICIPATED
- 3. DO NOT PROCEED WITH REMAINING WORK UNTIL WORKMANSHIP, COLOR, TEXTURE AND PATTERN ARE APPROVED BY ARCHITECT 4. REFINISH MOCK-UP AREA AS REQUIRED TO PRODUCE ACCEPTABLE WORK.

MANUFACTURED STONE VENEER-GENERAL BASIS-OF-DESIGN PRODUCT: PROVIDE PRODUCTS BY WESTLAKE ROYAL STONE -CULTURED STONE, MANUFACTURER'S COLOR AS SELECTED BY OWNER, OR COMPARABLE

- PRODUCTS BY ONE OF THE FOLLOWING: 1. WESTLAKE ROYAL STONE:
- a. PROFILE: DRESSED FIELDSTONE COLOR: SELECTED BY OWNER.
- 2. CORONADO STONE PRODUCTS: PROFILE: MINNESOTA FIELD STONE
- b. COLOR: SELECTED BY OWNER. MDM STONEWOKB INC:
- A. PROFILE: BUCK COUNTY FIELDSTONE COLOR: SELECTED BY OWNER. 4. CAST NATURAL STONE:
- HORSESHOE BAY FIELDSTONE b. COLOR: SELECTED BY OWNER.
- ACCESSORIES:

MATCHING CORNER PIECES STONE ACCESSORIES: PRE-CAST CAP STONE. COLOR: PER ARCHITECT'S SELECTION TO MATCH ADJACENT FINISHES.

INSTALLATION:

- NSTALL/APPLY RELATED MATERIALS IN ACCORDANCE WITH TYPE OF SUBSTRATE AND MANUFACTURED STONE VENEER MANUFACTURE'S INSTALLATION INSTRUCTIONS.
- PROVIDE STONES MANUFACTURED SPECIFICALLY FOR INSTALLATION AT CORNERS. MORTAR JOINTS STYLE: STANDARD 1/2 INCH TOOLED
- FLASHING: COORDINATE WITH SHEET METAL FLASHING AND TRIM. MANUFACTURER'S FIELD SERVICES: PROVIDE PERIODIC SITE VISITS AS REQUESTED BY ARCHITECT AND REPORT ANY DISCREPANCIES TO THE CONTRACTOR.

SECTION 061000 - ROUGH CARPENTRY

PRESERVATIVE TREATMENT BY PRESSURE PROCESS: AWPA U1; USE CATEGORY UC2 FOR INTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND, USE CATEGORY UC3B FOR EXTERIOR CONSTRUCTION NOT IN CONTACT WITH GROUND, AND USE CATEGORY UC4A FOR TEMS IN CONTACT WITH GROUND

PRESERVATIVE CHEMICALS: ACCEPTABLE TO AUTHORITIES HAVING JURISDICTION AND CONTAINING NO ARSENIC OR CHROMIUM FOR EXPOSED ITEMS INDICATED TO RECEIVE A STAINED OR NATURAL FINISH. CHEMICAL FORMULATIONS SHALL NOT REQUIRE INCISING, CONTAIN COLORANTS, BLEED THROUGH, OR OTHERWISE ADVERSELY AFFECT FINISHES

WHERE FIRE-RETARDANT-TREATED MATERIALS ARE INDICATED, MATERIALS SHALL COMPLY WITH REQUIREMENTS IN THIS ARTICLE. THAT ARE ACCEPTABLE TO AUTHORITIES HAVING JUBISDICTION AND WITH FIRE-TEST-RESPONSE CHARACTERISTICS SPECIFIED AS DETERMINED BY TESTING IDENTICAL PRODUCTS PER TEST METHOD INDICATED BY A QUALIFIED TESTING AGENCY.

FIRE-RETARDANT-TREATED LUMBER AND PLYWOOD BY PRESSURE PROCESS: PRODUCTS WITH A FLAME-SPREAD INDEX OF 25 OR LESS WHEN TESTED ACCORDING TO ASTM E 84.

IDENTIFY FIRE-RETARDANT-TREATED WOOD WITH APPROPRIATE CLASSIFICATION MARKING OF QUALIFIED TESTING AGENCY. FOR EXPOSED LUMBER INDICATED TO RECEIVE A STAINED OR NATURAL FINISH, MARK END OR

BACK OF EACH PIECE OR OMIT MARKING AND PROVIDE CERTIFICATES OF TREATMENT COMPLIANCE ISSUED BY TESTING AGENCY.

PROVIDE MISCELLANEOUS LUMBER INDICATED AND LUMBER FOR SUPPORT OR ATTACHMENT OF OTHER CONSTRUCTION, INCLUDING THE FOLLOWING:

A. BLOCKING B. NAILERS. C. FURRING.

DIMENSION LUMBER ITEMS: CONSTRUCTION OR NO. 2 GRADE LUMBER OF ANY SPECIES.

EQUIPMENT BACKING PANELS: PLYWOOD, DOC PS 1, FIRE-RETARDANT TREATED, IN THICKNESS INDICATED OR JE NOT INDICATED NOT LESS THAN 3/4-INCH NOMINAL THICKNESS

FASTENERS SHALL BE OF SIZE AND TYPE INDICATED AND SHALL COMPLY WITH REQUIREMENTS SPECIFIED IN THIS ARTICLE FOR MATERIAL AND MANUFACTURE.

COMPLY WITH AF&PA'S WCD 1, "DETAILS FOR CONVENTIONAL WOOD FRAME CONSTRUCTION," UNI ESS OTHERWISE INDICATED

INSTALL METAL FRAMING ANCHORS TO COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS INSTALL FASTENERS THROUGH EACH FASTENER HOLE

PROVIDE BLOCKING AND FRAMING AS INDICATED AND AS REQUIRED TO SUPPORT FACING MATERIALS, FIXTURES, SPECIALTY ITEMS, AND TRIM.

PROVIDE FIRE BLOCKING IN FURRED SPACES, STUD SPACES, AND OTHER CONCEALED

CAVITIES AS INDICATED.

COMPLY WITH AWPA M4 FOR APPLYING FIELD TREATMENT TO CUT SURFACES OF PRESERVATIVE-TREATED LUMBER

SECURELY ATTACH ROUGH CARPENTRY WORK TO SUBSTRATE BY ANCHORING AND

FASTENING AS INDICATED, COMPLYING WITH TABLE 2304.9.1, "FASTENING SCHEDULE," IN ICC'S INTERNATIONAL BUILDING CODE (IBC)

SECTION 072000 - BUILDING INSULATION

SECTION INCLUDES: Perimeter foundation insulation.

Thermal batt insulation for use in ceilings. Foam Insulation for masonry block walls

- A. Extruded Polystyrene Rigid Foam Board Insulation Foundation Walls and Under Slab shall be 1-1/2" polystyrene closed-cell foam insulation. Minimum five year aged "R" value shall be 7.5 measured at 75 degree mean temperature and a compressive strength of 25 psi. Insulation shall comply with ASTM C578, Type IV. Acceptable products include the following Styrofoam Brand "Square Edge" as manufactured by Dow Chemical
- Foamular "250" as manufactured by UCI Industries "Foamular 400 XPS"; Owens-Corning (800-438-7465)

Batt insulation for walls and above ceilings shall be fiberglass insulation with an aluminum foil vapor barrier providing a 0.5 perm or less. Ceiling insulation shall have a minimum "R" value of 19 and wall insulation shall have a minimum "R" value of 13. Insulation shall be friction-fit provided with minimum 2-inch wide flanges at the edges for fastening. Insulation shall comply with ASTM C665, Type III, Class B.

- 1. Unfaced Glass Fiber Batt Insulation Approved Manufacturers: "ComfortTherm": Johns-Manville (800-654-3103)
- "EcoTouch": Owens-Corning (800-438-7465) "Sustainable Insulation"; CertainTeed Corp (800-223-8990)
- "EcoBatt"; Knauf Insulation GmbH (800-825-4434)
- Faced Glass Fiber Blanket Insulation Approved Manufacturers: "ComfortTherm"; Johns-Manville (800-654-3103)
- "EcoTouch": Owens-Corning (800-438-7465)
- "Sustainable Insulation"; CertainTeed Corp (800-223-8990) "EcoBatt": Knauf Insulation GmbH (800-825-4434
- C. Foam insulation for concrete block walls shall R-value 14.2 for a 60 pound eight inch concrete block. Acceptable manufacturers include the following. "Core-Fill-500" as manufactured by Tailored Chemical Products, Inc., Hickory, NC.
- cfiFOAM, Inc., PO Box 10393, Knoxville, TN 37939. THERMCO® FOAM Manufactured by Thermal Corporation of America Route #3, Highway 34
- West Mt. Pleasant, IA 52641 d. Tripolymer® Foam Insulation manufactured by FDI Enterprises.

073113 - ASPHALT SHINGLES

SECTION INCLUDES: A. ASPHALT SHINGLES.

UNDERLAYMENT. C. METAL FLASHING AND TRIM.

MANUFACTURER'S WARRANTY: MANUFACTURER AGREES TO REPAIR OR REPLACE ASPHALT SHINGLES THAT FAIL WITHIN SPECIFIED WARRANTY PERIOD.

FAILURES INCLUDE. BUT ARE NOT LIMITED TO. THE FOLLOWING: A. MANUFACTURING DEFECTS.

MATERIAL WARRANTY PERIOD: 50 YEARS FROM DATE OF SUBSTANTIAL COMPLETION. WIND-SPEED WARBANTY PERIOD: ASPHALT SHINGLES WILL BESIST BLOW-OFF OR DAMAGE CAUSED BY WIND SPEEDS OF UP TO 110 MPH FOR FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

ALGAE-RESISTANCE WARRANTY PERIOD: ASPHALT SHINGLES WILL NOT DISCOLOR FOR 15 YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

ROOFING INSTALLER'S WARRANTY: ON WARRANTY FORM AT END OF THIS SECTION, SIGNED BY INSTALLER, IN WHICH INSTALLER AGREES TO REPAIR OR REPLACE COMPONENTS OF ASPHALT-SHINGLE ROOFING THAT FAIL IN MATERIALS OR WORKMANSHIP WITHIN SPECIFIED WARRANTY PERIOD. WARRANTY PERIOD: FIVE YEARS FROM DATE OF SUBSTANTIAL COMPLETION.

GLASS-FIBER-REINFORCED ASPHALT SHINGLES A. BASIS-OF-DESIGN PRODUCT: PROVIDE CERTAINTEED LANDMARK PRO SERIES

SHINGLES, MOJAVE TAN OR MANUFACTURER'S STANDARD COLOR AS SELECTED BY OWNER. OR COMPARABLE PRODUCTS BY ONE OF THE FOLLOWING: GAF MATERIALS CORPORATION CERTAINTEED

- B. STRIP SIZE: MANUFACTURER'S STANDARD.
- HIP AND RIDGE SHINGLES: MANUFACTURER'S STANDARD UNITS TO MATCH ASPHALT SHINGLES
- UNDERLAYMENT MATERIALS A. FELT: ASTM D 226/D 226M, ASPHALT-SATURATED ORGANIC FELTS, NONPERFORATED. B. TYPE: TYPE II.

ACCESSORIES

A. ASPHALT ROOFING CEMENT B. ROOFING NAILS SHANK: BARBED

D. FELT-UNDERLAYMENT NAILS

PREFORMED RIGID RIDGE VENT (NON-ROLLED): MANUFACTURER'S STANDARD, RIGID SECTION HIGH-DENSITY POLYPROPYLENE OR OTHER UV-STABILIZED PLASTIC RIDGE VENT FOR USE UNDER RIDGE SHINGLES.

- MINIMUM NET FREE AREA: 18.0 SQ. IN/LINEAR FEET. WIDTH: 12 INCHES.
- THICKNESS: 0.065 INCHES. FEATURES: CRUSH RESISTANT
- NONWOVEN GEOTEXTILE FILTER STRIPS. EXTERNAL DEFLECTOR BAFFLES
- COVER WITH RIDGE CAP SHINGLES

EAVES PROTECTION: CERTAINTEED "WINTERGUARD HT";ASTM D1970 SHEET BARRIER OF SELF-ADHERING RUBBERIZED ASPHALT MEMBRANE SHINGLE UNDERLAYMENT HAVING INTERNAL REINFORCEMENT AND "SPLIT" BACK PLASTIC RELEASE FILM; PROVIDE MATERIAL WARRANTY EQUAL IN DURATION TO THAT OF SHINGLES BEING APPLIED.

UNDERLAYMENT: CERTAINTEED "ROOFERS' SELECT", ASTM D 6757; ASPHALT-IMPREGNATED FIBERGLASS-REINFORCED ORGANIC FELT DESIGNED FOR USE ON ROOF DECKS AS A WATER-RESISTANT LAYER BENEATH BOOFING SHINGLES

FLASHING MATERIALS SHEET FLASHING: ASTM A 361/A361M; 26 GAUGE (0.45 MM) STEEL WITH MINIMUM G115/Z350 GALVANIZED COATING.

SHEET FLASHING: ASTM B 209; 0.025 (0.63MM) THICK ALUMINUM, MILL FINISH.

SHEET FLASHING: ASTM B 370; COLD ROLLED COPPER; 16 OUNCES PER SQUARE FOOT (0.55MM). NATURAL FINISH.

BITUMIOUS PAINT: ACID AND ALKALI RESISTANT TYPE; BLACK COLOR.

TINNER'S PAINT: COLOR AS SELECTED BY ARCHITECT TO COORDINATE WITH SHINGLE COLOR. ACCESSORIES

NAILS: STANDARD ROUND WIRE TYPE ROOFING NAILS, CORROSION RESISTANT; HOT DIPPED ZINC COATED STEEL, ALUMINUM OR CHORMATED STEEL; MINIMUM 3.8 INCH (9.5MM) HEAD DIAMETER; MINIMUM 11 OR 12 GAGE (2.5MM) SHANK DIAMETER; SHANK TO BE SUFFICIENT LENGTH TO PENETRATE THROUGH THE ROOF SHEATHING OR \$4 INCH (19MM) INTO SOLID WOOD, PLYWOOD OR NON-VENEER WOOD DECKING.

ASPHALT ROOFING CEMENT: ASTM D 4586, TYPE I OR II

FLASHING FABRICATION

FORM FLASHING TO PROFILES INDICATED ON DRAWINGS AND TO PROTECT ROOFING MATERIALS FROM PHYSICAL DAMAGE AND SHED WATER.

FORM SECTIONS SQUARE AND ACCURATE TO PROFILE, IN MAXIMUM POSSIBLE LENGTHS, FREE FROM DISTORTION OR DEFECTS DETRIMENTAL TO APPEARANCE OR PERFORMANCE.

SECTION 076200 - SHEET METAL FLASHING AND TRIM

- SECTION INCLUDES:
- FORMED BOOF DRAINAGE SHEET METAL FABRICATIONS FORMED STEEP-SLOPE ROOF SHEET METAL FABRICATIONS.
- FORMED WALL SHEET METAL FABRICATIONS. FORMED SOFFIT PANELS
- PERFORMANCE REQUIREMENTS A. GENERAL: SHEET METAL FLASHING AND TRIM ASSEMBLIES AS INDICATED SHALL WITHSTAND WIND LOADS, STRUCTURAL MOVEMENT, THERMALLY INDUCED MOVEMENT, AND EXPOSURE TO WEATHER WITHOUT FAILURE DUE TO DEFECTIVE MANUFACTURE, FABRICATION, INSTALLATION, OR OTHER DEFECTS IN CONSTRUCTION. COMPLETED SHEET METAL FLASHING AND TRIM SHALL NOT RATTLE. LEAK, OR LOOSEN, AND SHALL REMAIN WATERTIGHT.
- THERMAL MOVEMENTS: PROVIDE SHEET METAL FLASHING AND TRIM THAT ALLOWS FOR THERMAL MOVEMENTS FROM AMBIENT AND SURFACE TEMPERATURE CHANGES. ACTION SUBMITTALS
- A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT INDICATED. INCLUDE CONSTRUCTION DETAILS MATERIAL DESCRIPTIONS DIMENSIONS OF INDIVIDUAL COMPONENTS AND PROFILES, AND FINISHES FOR EACH MANUFACTURED PRODUCT AND ACCESSORY. SHOP DRAWINGS: SHOW FABRICATION AND INSTALLATION LAYOUTS OF SHEET METAL FLASHING AND TRIM, INCLUDING PLANS, ELEVATIONS, EXPANSION-JOINT LOCATIONS, AND KEYED DETAILS. DISTINGUISH BETWEEN SHOP- AND FIELD-ASSEMBLED WORK.
- INCLUDE THE FOLLOWING: IDENTIFICATION OF MATERIAL, THICKNESS, WEIGHT, AND FINISH FOR EACH ITEM ND LOCATION IN PROJECT
- DETAILS FOR FORMING SHEET METAL FLASHING AND TRIM, INCLUDING PROFILES, SHAPES, SEAMS, AND DIMENSIONS.
- 3. DETAILS FOR JOINING, SUPPORTING, AND SECURING SHEET METAL FLASHING AND TRIM, INCLUDING LAYOUT OF FASTENERS, CLEATS, CLIPS, AND OTHER
- ATTACHMENTS. INCLUDE PATTERN OF SEAMS DETAILS OF TERMINATION POINTS AND ASSEMBLIES. INCLUDING FIXED POINTS.
- DETAILS OF EXPANSION JOINTS AND EXPANSION-JOINT COVERS, INCLUDING SHOWING DIRECTION OF EXPANSION AND CONTRACTION DETAILS OF EDGE CONDITIONS, INCLUDING EAVES, RIDGES, VALLEYS, RAKES,
- CRICKETS, AND COUNTERFLASHINGS AS APPLICABLE. DETAILS OF SPECIAL CONDITIONS.
- DETAILS OF CONNECTIONS TO ADJOINING WORK. DETAIL FORMED FLASHING AND TRIM AT A SCALE OF NOT LESS THAN 3 INCHES
- PER 12 INCHES. C. SAMPLES FOR INITIAL SELECTION: FOR EACH TYPE OF SHEET METAL FLASHING, TRIM, AND ACCESSORY INDICATED WITH FACTORY-APPLIED COLOR FINISHES INVOLVING COLOR SELECTION

SHEET METAL FLASHING AND TRIM STANDARD' COMPLY WITH SMACNA'S "ABCHITECTURAL SHEET METAL MANUAL" UNLESS MORE STRINGENT REQUIREMENTS ARE SPECIFIED OR SHOWN ON DRAWINGS

- SHEET METALS A. METALLIC-COATED STEEL SHEET: RESTRICTED FLATNESS STEEL SHEET, METALLIC COATED BY THE HOT-DIP PROCESS AND PREPAINTED BY THE COIL-COATING PROCESS TO COMPLY WITH ASTM A 755/A 755M. ZINC-COATED (GALVANIZED) STEEL SHEET: ASTM A 653/A 653M, G90 COATING DESIGNATION; STRUCTURAL QUALITY.
 - SURFACE: SMOOTH, FLAT. EXPOSED COIL-COATED FINISH:
 - a. TWO-COAT FLUOROPOLYMER: AAMA 621. FLUOROPOLYMER FINISH CONTAINING NOT LESS THAN 70 PERCENT PVDF RESIN BY WEIGHT IN COLOR COAT. PREPARE, PRETREAT, AND APPLY COATING TO EXPOSED METAL SURFACES TO COMPLY WITH COATING AND RESIN MANUFACTURERS' WRITTEN INSTRUCTIONS.
- COLOR: AS SELECTED BY OWNER FROM MANUFACTURER'S FULL RANGE. CONCEALED FINISH: PRETREAT WITH MANUFACTURER'S STANDARD WHITE OR LIGHT-COLOBED ACBYLIC OB POLYESTEB BACKEB FINISH, CONSISTING OF PRIME COAT AND WASH COAT WITH A MINIMUM TOTAL DRY FILM THICKNESS OF 0.5
- ALUMINUM SOFFITS A. APPROVED MANUFACTURERS:
 - "ALUMA-GUARD PLUS"; ALCOA BUILDING PRODUCTS (800-962-6973) "COMMERCIAL TRIPLE 4 CENTER VENT"; NAPCO, INC. (800-786-2726)
 - "WIND-LOK SOFFIT PANELS"; ATAS INTERNATIONAL, INC. (800-468-1441) "MRS FLUSH SEAM (12")"; METAL ROOFING SYSTEMS, (704-820-3110)
- SOFFITS TO BE SHEET ALUMINUM, ALLOY 3105-FI26P. DIMENSIONS:
- THICKNESS MINIMUM 019"

VENTILATION: PERFORATED DESIGN

PRE-FINISHED 0.019" ALUMINUM COIL MATERIAL

COLOR: AS SHOWN ON EXTERIOR FINISH LEGEND.

TEXTURE: "NON-WOOD GRAIN", SMOOTH MATTE TEXTURE.

PLASTIC CAPS OR FACTORY-APPLIED COATING.

SUITABLE FOR METAL BEING FASTENED.

EXPANSION JOINTS WITH LIMITED MOVEMENT

AND SPECIFIED.

"J" CHANNE

"T" TRIM

FINISHES:

INDICATED

WATERTIGHT

FOR APPLICATION.

METAL.

"F" CHANNEL

MISCELLANEOUS MATERIALS

WASHER HEAD.

- WIDTH: 12" WIDE, 3/8" DEEP WITH WIDE FACES FORMING U GROOVES AT 4" O.C. 3. FINISH: TWO-COAT WATER-BASE ACRYLIC COMPLYING WITH AAMA 1402. DRY FILM THICKNESS: 0.9 TO 1.0 MILS. GLOSS: 10 TO 14 AT 60 DEGREES, WHEN EVALUATED IN ACCORDANCE WITH ASTM
- ADHESION: EXCELLENT, WHEN TESTED IN ACCORDANCE WITH ASTM D3359.
- HUMIDITY RESISTANCE: NO LOSS OF GLOSS, CRACKING OR PEELING, WHEN TESTED IN ACCORDANCE WITH ASTM D2247 WITH 1,000 HOURS OF EXPOSURE AT
- 00 PERCENT RELATIVE HUMIDITY. e. SALT SPRAY RESISTANCE: NO UNDER-CUTTING OF FILM FROM EDGES IN EXCESS OF 1/16 INCH OR FACE BLISTERING, WHEN TESTED IN ACCORDANCE WITH ASTM
- 3117 WITH 3,000 HOURS AT 5 PERCENT NEUTRAL SALT SPRAY. FADE RESISTANCE: MAXIMUM COLOR DIFFERENCE OF 5 WHEN EVALUATED IN ACCORDANCE WITH ASTM D2244 AFTER 10 YEARS AT 45 DEGREES SOUTH

a. FREE AIR SPACE AREA: 4.4 SQ. IN PER LINEAL FEET NET FREE AREA IN CENTER

ACCESS(PANEL ONLY DE AS REQUIRED FOR A COMPLETE INSTALLATION AS INDICATED

NAILS: MANUFACTURERS STANDARD ALUMINUM NAILS OF 5056 OR 6010 ALLOY.

GENERAL: PROVIDE MATERIALS AND TYPES OF FASTENERS, SOLDER, WELDING RODS,

RECOMMENDED BY MANUFACTURER OF PRIMARY SHEET METAL UNLESS OTHERWISE

FASTENERS: WOOD SCREWS, ANNULAR THREADED NAILS, SELF-TAPPING SCREWS, SELF-

WITHSTAND DESIGN LOADS AND RECOMMENDED BY MANUFACTURER OF PRIMARY SHEET

1. GENERAL: BLIND FASTENERS OR SELF-DRILLING SCREWS, GASKETED, WITH HEX-

a. EXPOSED FASTENERS: HEADS MATCHING COLOR OF SHEET METAL USING

SEALANT TAPE: PRESSURE-SENSITIVE, 100 PERCENT SOLIDS, GRAY POLYISOBUTYLENE

COMPOUND SEALANT TAPE WITH RELEASE-PAPER BACKING. PROVIDE PERMANENTLY ELASTIC, NONSAG, NONTOXIC, NONSTAINING TAPE 1/2 INCH WIDE AND 1/8 INCH THICK.

ELASTOMERIC SEALANT: ASTM C 920, ELASTOMERIC POLYURETHANE OR POLYSULFIDE

REQUIRED TO SEAL JOINTS IN SHEET METAL FLASHING AND TRIM AND REMAIN

SEALANT: POLYISOBUTYLENE PLASTICIZED; HEAVY BODIED FOR HOOKED-TYPE

BITUMINOUS COATING: COLD-APPLIED ASPHALT EMULSION COMPLYING WITH ASTM

G. ASPHALT ROOFING CEMENT: ASTM D 4586, ASBESTOS FREE, OF CONSISTENCY REQUIRED

POLYMER SEALANT; LOW MODULUS; OF TYPE, GRADE, CLASS, AND USE CLASSIFICATIONS

BUTYL SEALANT: ASTM C 1311, SINGLE-COMPONENT, SOLVENT-RELEASE BUTYL RUBBER

BLIND FASTENERS: HIGH-STRENGTH ALUMINUM OR STAINLESS-STEEL RIVETS

FASTENERS FOR ZINC-COATED (GALVANIZED) STEEL SHEET: HOT-DIP GALVANIZED

STEEL ACCORDING TO ASTM A 153/A 153M OR ASTM F 2329 OR SERIES 300 STAINLESS

REQUIRED FOR COMPLETE SHEET METAL FLASHING AND TRIM INSTALLATION AND

LOCKING RIVETS AND BOLTS, AND OTHER SUITABLE FASTENERS DESIGNED TO

PROTECTIVE COATINGS, SEPARATORS, SEALANTS, AND OTHER MISCELLANEOUS ITEMS AS

FLORIDA EXPOSURE, AFTER REMOVING EXTERNAL DEPOSITS.

GENERAL: CUSTOM FABRICATE SHEET METAL FLASHING AND TRIM TO COMPLY WITH RECOMMENDATIONS IN SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL" THAT APPLY TO DESIGN. DIMENSIONS, GEOMETRY, METAL THICKNESS, AND OTHER CHARACTERISTICS OF ITEM

INDICATED. FABRICATE ITEMS AT THE SHOP TO GREATEST EXTENT POSSIBLE.

FABRICATION TOLERANCES: FABRICATE SHEET METAL FLASHING AND TRIM THAT IS CAPABLE OF INSTALLATION TO A TOLERANCE OF 1/4 INCH IN 20 FEET ON SLOPE AND LOCATION LINES AS INDICATED AND WITHIN 1/8-INCH OFFSET OF ADJOINING FACES AND OF ALIGNMENT OF MATCHING PROFILES.

ROOF DRAINAGE SHEET METAL FABRICATIONS A. HANGING GUTTERS: FABRICATE TO CROSS SECTION INDICATED, COMPLETE WITH

FABRICATION

- END PIECES, OUTLET TUBES, AND OTHER ACCESSORIES AS REQUIRED. FABRICATE IN MINIMUM 96-INCH-LONG SECTIONS. FURNISH FLAT-STOCK GUTTER SPACERS AND GUTTER BRACKETS FABRICATED FROM SAME METAL AS GUTTERS, OF SIZE RECOMMENDED BY SMACNA BUT NOT LESS THAN TWICE THE GUTTER THICKNESS. FABRICATE EXPANSION JOINTS, EXPANSION-JOINT COVERS, AND GUTTER ACCESSORIES FROM SAME METAL AS GUTTERS
- GUTTER STYLE: HALF-ROUND. 5" WIDTH. EXPANSION JOINTS: LAP TYPE.
- GUTTER SUPPORT: BAR HANGER BRACKET. FABRICATE FROM THE FOLLOWING MATERIALS: GALVANIZED STEEL: 24 GAUGe B. DOWNSPOUTS: FABRICATE PLAIN ROUND DOWNSPOUTS, 4", COMPLETE WITH MITERED ELBOWS. FURNISH WITH METAL HANGERS, FROM SAME MATERIAL AS
- DOWNSPOLITS AND ANCHORS 1. FABRICATE FROM THE FOLLOWING MATERIALS: GALVANIZED STEEL: 26 GAUGE.
- C. STEEP-SLOPE ROOF SHEET METAL FABRICATIONS DRIP EDGES: FABRICATE FROM THE FOLLOWING MATERIALS:
- GALVANIZED STEEL: 26 GAUGE. 2. EAVE AND RAKE FLASHING: FABRICATE FROM THE FOLLOWING MATERIALS:
- a. GALVANIZED STEEL: 26 GAUGE. 3. FASCIA: FABRICATE FROM THE FOLLOWING MATERIALS:
- a. GALVANIZED STEEL: 26 GAUGE 4. COUNTERFLASHING: FABRICATE FROM THE FOLLOWING MATERIALS: a. GALVANIZED STEEL: 26 GAUGE.
- WALL SHEET METAL FABRICATIONS

A. OPENING FLASHINGS IN FRAME CONSTRUCTION: FABRICATE HEAD, SILL, AND SIMILAR LASHINGS TO EXTEND 4 INCHES BEYOND WALL OPENINGS. FORM HEAD AND SILL FLASHING WITH 2-INCH-HIGH, END DAMS. FABRICATE FROM THE FOLLOWING MATERIALS

1. GALVANIZED STEEL: 26 GAUGE.

METAL PROTECTION: WHERE DISSIMILAR METALS WILL CONTACT EACH OTHER OR CORROSIVE SUBSTRATES, PROTECT AGAINST GALVANIC ACTION BY PAINTING CONTACT SURFACES WITH BITUMINOUS COATING OR BY OTHER PERMANENT SEPARATION AS RECOMMENDED BY

EXPANSION PROVISIONS: PROVIDE FOR THERMAL EXPANSION OF EXPOSED FLASHING AND TRIM. SPACE MOVEMENT JOINTS AT A MAXIMUM OF 10 FEET WITH NO JOINTS ALLOWED WITHIN 24 INCHES OF CORNER OR INTERSECTION. WHERE LAPPED EXPANSION PROVISIONS CANNOT BE USED OR WOULD NOT BE SUFFICIENTLY WATERTIGHT. FORM EXPANSION JOINTS OF INTERMESHING HOOKED FLANGES, NOT LESS THAN 1 INCH DEEP, FILLED WITH SEALANT CONCEALED WITHIN JOINTS.

FASTENER SIZES: USE FASTENERS OF SIZES THAT WILL PENETRATE WOOD SHEATHING NOT LESS THAN 1-1/4 INCHE FOR NAILS AND NOT LESS THAN 3/4 INCH FOR WOOD SCREWS.

SEAL JOINTS AS SHOWN AND AS REQUIRED FOR WATERTIGHT CONSTRUCTION.

- ROOF DRAINAGE SYSTEM INSTALLATION A. GENERAL: INSTALL SHEET METAL ROOF DRAINAGE ITEMS TO PRODUCE COMPLETE ROOF DRAINAGE SYSTEM ACCORDING TO SMACNA RECOMMENDATIONS AND AS INDICATED. COORDINATE INSTALLATION OF ROOF PERIMETER FLASHING WITH
- INSTALLATION OF ROOF DRAINAGE SYSTEM. B. HANGING GUTTERS: JOIN SECTIONS WITH RIVETED AND SOLDERED JOINTS OR WITH LAPPED JOINTS SEALED WITH SEALANT. PROVIDE FOR THERMAL EXPANSION. ATTACH GUTTERS AT EAVE OR FASCIA TO FIRMLY ANCHORED GUTTER BRACKETS SPACED NOT MORE THAN 36 INCHES APART. PROVIDE END CLOSURES AND SEAL WATERTIGHT WITH SEALANT. SLOPE TO DOWNSPOUTS.
- FASTEN GUTTER SPACERS TO FRONT AND BACK OF GUTTER. 2. INSTALL GUTTER WITH EXPANSION JOINTS AT LOCATIONS INDICATED, BUT NOT EXCEEDING, 50 FEET APART. INSTALL EXPANSION-JOINT CAPS. C. DOWNSPOUTS: JOIN SECTIONS WITH 1-1/2-INCH TELESCOPING JOINTS. 1. PROVIDE HANGERS WITH FASTENERS DESIGNED TO HOLD DOWNSPOUTS
- SECURELY TO WALLS. LOCATE HANGERS AT TOP AND BOTTOM AND AT APPROXIMATELY 60 INCHES O.C. IN BETWEEN. 2. WHERE INDICATED ON DRAWINGS, CONNECT DOWNSPOUTS TO UNDERGROUND DRAINAGE SYSTEM INDICATED.

ROOF FLASHING INSTALLATION

A. GENERAL: INSTALL SHEET METAL FLASHING AND TRIM TO COMPLY WITH PERFORMANCE REQUIREMENTS AND SMACNA'S "ARCHITECTURAL SHEET METAL MANUAL." PROVIDE CONCEALED FASTENERS WHERE POSSIBLE, SET UNITS TRUE TO LINE, AND LEVEL AS INDICATED. INSTALL WORK WITH LAPS, JOINTS, AND SEAMS THAT WILL BE PERMANENTLY WATERTIGHT AND WEATHER RESISTANT.

- B. PIPE OR POST COUNTERFLASHING: INSTALL COUNTERFLASHING UMBRELLA WITH CLOSE- FITTING COLLAR WITH TOP EDGE FLARED FOR ELASTOMERIC SEALANT. EXTENDING A MINIMUM OF 4 INCHES OVER BASE FLASHING. INSTALL STAINLESS-
- STEEL DRAW BAND AND IGHTEN. C. COUNTERFLASHING: COORDINATE INSTALLATION OF COUNTERFLASHING WITH INSTALLATION OF BASE FLASHING. INSERT COUNTERFLASHING IN REGLETS OR RECEIVERS AND FIT TIGHTLY TO BASE FLASHING. EXTEND COUNTERFLASHING 4 INCHES OVER BASE FLASHING. LAP COUNTERFLASHING JOINTS A MINIMUM OF 4 INCHES AND BED WITH SEALANT. SECURE IN A WATERPROOF MANNER BY MEANS OF ASHEVILLE, NC SNAP-IN INSTALLATION AND SEALANT OR LEAD WEDGES AND SEALANT.

WALL FLASHING INSTALLATION

- A. GENERAL: INSTALL SHEET METAL WALL FLASHING TO INTERCEPT AND EXCLUDE PENETRATING MOISTURE ACCORDING TO SMACNA RECOMMENDATIONS AND AS INDICATED. COORDINATE INSTALLATION OF WALL FLASHING WITH INSTALLATION OF WALL-OPENING COMPONENTS SUCH AS WINDOWS, DOORS, AND LOUVERS. B. OPENING FLASHINGS IN FRAME CONSTRUCTION: INSTALL CONTINUOUS HEAD, SILL,
- AND SIMILAR FLASHINGS TO EXTEND 4 INCHES BEYOND WALL OPENINGS.

GENERAL NOTES

COORDINATE DIVISON 1 SPECIFICATIONS WITH OWNER REQUIREMENTS. IF CONFLICT OCCURS, OWNER REQUIREMENTS SHALL GOVERN.

BUNCOMBE COUNTY SPORTS PARK **RESTROOM BUILDING**

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lssue	Date	Description
1	11/17/2023	ISSUED FOR BID AND PERMIT
3	12/14/2023	ADDENDUM A

SPECIFICATIONS

Project No: 2022090 Project Manager: MTT Drawn Bv:



		SECTION 079200 - JOINT SEALANTS (CONT'D)
	SECTION 074213 - METAL WALL PANELS SECTION INCLUDES: Un-Insulated Metal Wall Panel System: Including aluminum-zinc alloy-coated sheet steel panels; panel	JOINT-SEALANT BACKING: A. SEALANT BACKING MATERIAL, GENERAL: NONSTAINING; COMPATIBLE WITH JOINT SUBSTRATES, SEALANTS, PRIMERS, AND OTHER JOINT FILLERS; AND APPROVED FOR
Ν	mounting system including anchorages, shims, furring, fasteners, gaskets and sealants; related flashing adapters, and masking (as required) for a complete installation. The following types of work are specified in this Section: A. Metal Wall Panel System (Furnished by Pre-Engineered Metal Building Supplier) b. Flashings	APPLICATIONS INDICATED BY SEALANT MANUFACTURER BASED ON FIELD EXPERIENCE AND LABORATORY TESTING. B. CYLINDRICAL SEALANT BACKINGS: ASTM C 1330, TYPE C (CLOSED-CELL MATERIAL WITH A SURFACE SKIN) TYPE O (OPEN-CELL MATERIAL) TYPE B (BICELLULAR
	 B. Matching Fascia & Copings C. Metal wall system shall be grounded in accordance with local Codes, as approved by the Building Department. This Contractor shall provide a provision for connection of wall system grounding 	MATERIAL WITH A SURFACE SKIN) OR ANY OF THE PRECEDING TYPES, AS APPROVED IN WRITING BY JOINT- SEALANT MANUFACTURER FOR JOINT APPLICATION INDICATED, AND OF SIZE AND DENSITY TO CONTROL SEALANT DEPTH AND OTHERWISE
	system to building ground system by Electrical Contractor. Coordinate with Electrical Contractor as required for complete grounding system. SUBMITTALS	CONTRIBUTE TO PRODUCING OPTIMUM SEALANT PERFORMANCE. C. BOND-BREAKER TAPE: POLYETHYLENE TAPE OR OTHER PLASTIC TAPE RECOMMENDED BY SEALANT MANUFACTURER FOR PREVENTING SEALANT FROM ADHERING TO RIGID, INFLEXIBLE JOINT-FILLER MATERIALS OR JOINT SURFACES AT
	 General: Submit the following in accordance with Conditions of Contract and Division 01 Specification Sections. Submit metal manufacturers and fabricator's specifications, installation instructions, and general 	BACK OF JOINT. PROVIDE SELF-ADHESIVE TAPE WHERE APPLICABLE.
М	recommendations for wall panel applications. Include certification or other data substantiating that materials comply with requirements. C. Samples: Submit 8" square samples of specified metal to be used as wall panels with specified finishes applied.	A. ELEVATIONS OF EACH DOOR TYPE.
	 D. Shop Drawings: Submit Shop Drawings showing manner of forming, joining, and securing metal panels, and pattern of seams. Show expansion joint details and waterproof connections to adjoining work and at obstructions and penetrations. E. Mockups: Build mockups to verify selections made under sample submittals and to demonstrate 	 B. DETAILS OF DOORS, INCLUDING VERTICAL- AND HORIZONTAL-EDGE DETAILS AND METAL THICKNESSES. C. FRAME DETAILS FOR EACH FRAME TYPE, INCLUDING DIMENSIONED PROFILES AND
	 aesthetic effects and qualities of materials and execution. Install first three panels for review prior to installing remainder of metal panel wall system. Approval of mockups does not constitute approval of deviations from the Contract Documents 	METAL THICKNESSES. D. LOCATIONS OF REINFORCEMENT AND PREPARATIONS FOR HARDWARE. E. DETAILS OF EACH DIFFERENT WALL OPENING CONDITION. F. DETAILS OF ANCHORAGES, JOINTS, FIELD SPLICES, AND CONNECTIONS.
L	contained in mockups unless such deviations are specifically approved by Architect in writing.3. Approved mockups may become part of the completed Work if undisturbed at time of Substantial Completion.	 G. DETAILS OF ACCESSORIES. H. DETAILS OF MOLDINGS, REMOVABLE STOPS, AND GLAZING. I. DETAILS OF CONDUIT AND PREPARATIONS FOR POWER, SIGNAL, AND CONTROL SYSTEMS.
	 WARRANTY A. The following guarantees shall be provided by the metal panel system manufacturer: 1. Durability of the wall panels against rupture, structural failure, or perforation shall be guaranteed for a period of one (1) year from date of Substantial Completion. 	SCHEDULE: PROVIDE A SCHEDULE OF HOLLOW-METAL WORK PREPARED BY OR UNDER THE SUPERVISION OF SUPPLIER, USING SAME REFERENCE NUMBERS FOR DETAILS AND OPENINGS
	 The color finish for the wall panels shall be guaranteed by the building manufacturer for standard term against blistering, peeling, cracking, flaking, checking, and chipping. Excessive color change and chalking shall be guaranteed for twenty (20) years. 	AS THOSE ON DRAWINGS. COORDINATE WITH FINAL DOOR HARDWARE SCHEDULE. SUBJECT TO COMPLIANCE WITH REQUIREMENTS PROVIDE PRODUCTS BY ONE OF THE FOLLOWING:
	B. Provide manufacturer's written weathertightness warranty for a maximum of ten (10) years against leaks in wall panel system.	 A. CECO DOOR; ASSA ABLOY. B. CURRIES COMPANY; ASSA ABLOY. C. STEELCRAFT; AN ALLEGION BRAND.
K	 A. Approved Manufacturers: 1. Metal Board and Batten Panel System, 10" coverage; AB Martin (717-445-6885), Ephrata, PA 82 Garden Spot Road, Ephrata, PA 17522, https://www.abmartin.net/ 	EXTERIOR HOLOW-METAL DOORS AND FRAMES:
	 2. <u>MRS Board & Batten Panel, 12" coverage, Metal Roofing Systems (704-820-3110), 7670</u> <u>Mikron Road Stanley, NC 28164, https://www.metalroofingsystems.com/</u> 3. Basis of Design Product: Subject to compliance with requirements, provide the following or comparable product from listed manufacturer. 	 A. HEAVY-DUTY DOORS AND FRAMES: SDI A250.8, LEVEL 2. B. DOOR CORE: VERTICAL STEEL STIFFENER. C. EXPOSED FINISH: PRIME.
	a. Modular Metal Panels: Factory formed, steel panels fabricated from AZ-50 aluminum-zinc coated steel consisting of formed metal sheet with vertical panel edges and flat pan, with flush joints between panels, field assembled with nested lapped edges, and attached to supports using concealed fasteners.	ASTRAGALS: PROVIDE OVERLAPPING ASTRAGAL ON ONE LEAF OF PAIRS OF DOORS WHERE REQUIRED BY NFPA 80 FOR FIRE-PERFORMANCE RATING OR WHERE INDICATED. EXTEND MINIMUM 3/4 INCH (19 MM) BEYOND EDGE OF DOOR ON WHICH ASTRAGAL IS MOUNTED OR AS
	 Aluminum-Zinc Alloy-Coated Steel Sheet: ASTM A792/A792m, structurally quality, Grade 50, Coating Class AZ50 (Grade 340, Coating Class AZM150), pre-painted by the coil-coating process. 	REQUIRED TO COMPLY WITH PUBLISHED LISTING OF QUALIFIED TESTING AGENCY. INSTALL HOLLOW-METAL WORK PLUMB, RIGID, PROPERLY ALIGNED, AND SECURELY FASTENED IN PLACE. COMPLY WITH DRAWINGS AND MANUFACTURER'S WRITTEN INSTRUCTIONS.
J	 Nominal Thickness: 26 gauge Batten Width: between 1-1/2 inch and 2 inches Batten Depth: between 1/2" inch and 1 inch deep leg Panel Width: 12 inch flat profile, 10" coverage (approximate) 	HOLLOW-METAL FRAMES: INSTALL HOLLOW-METAL FRAMES FOR DOORS, TRANSOMS, SIDELITES, BORROWED LITES, AND OTHER OPENINGS, OF SIZE AND PROFILE INDICATED. COMPLY WITH SDI A250.11 OR NAAMM-HMMA 840 AS REQUIRED BY STANDARDS SPECIFIED.
	 Panel Flatness: Maximum allowable distortion: 1/32 inch in 24 inches (0.813 mm in 610 mm) in any direction Fastening: Manufacturers standard concealed fastening system. Length: Standard 5'-0" to 30'-0"; as indicated on Drawings 	AT FIRE-RATED OPENINGS, INSTALL DOORS AND FRAMES ACCORDING TO NFPA 80 WITH REQUIRED TOLERANCES.
	 b. Sheet Surface: Smooth. c. Aluminum Face Sheet Coil-Coated Finish: 1. Fluoropolymer Two-Coat System: 0.2 mil primer with 0.8 mil 70 percent PVDF fluoropolymer color coat, AAMA 621. 	SECTION 083100 - ACCESS DOORS AND PANELS Section Includes:
Н	 2. Color: As Selected by Architect from manufacturer's standard colors. d. Unexposed Finish: Manufacturer's standard nominal 0/5 mil nominal DFT backer coating. e. Exposed Trim, flashings and fastener finish: Match panel finish. All edging and trim to utilize 	 A. Access Doors and Frames of the Following Types: 1. Wall Access Doors 2. Moisture Resistant Access Doors 3. Ceiling Access Doors
	manufacturers standards selections including but not limited to the following: Outside and Insode Corners Band Board Utility Trim, Starter Strips and Termination Strips 	SUBMITTALS A. Per Division 01
	 Channels (J, F, J&F) Base Angle and Double Angle Door trims Trip Cap 	ACCESS UNITS A. Wall Access Doors (Non-Rated): 1. Approved Products:
	DESIGN LOADS A. The basic design loads shall include wind (both external and internal), and earthquake (where	 a. "WB Series"; J.L. Industries b. "Type RDW"; Karp Associates, Inc. c. "Model NW Series"; Nystrom Building Products d. "Style DW"; Milcor, Inc., a brand of Commercial Products Group of Hart & Cooley, Inc.
G	applicable). All other foreign loads, whether they be of static, dynamic, or kinetic nature, shall be considered as auxiliary loads. Refer to Drawings for design loads. MISCELLANEOUS MATERIALS	 Door Size: Select from manufacturer's standard sizes to suit required opening. Designed for flush installation in wall construction. Construct of metal with concealed continuous hinge, having recessed screwdriver latch, size as indicated. B. Ceiling Access Doors (Non-Rated):
	 A. Accessories: Except as indicated as work of another specification section, provide components required for a complete wall panel system, including trim, closures, clips, seam covers, battens, flashings, sealants, gaskets, fillers, and similar items. Match materials and finishes of panels. This Contractor shall provide and install all additional structural material required to install the 	 Approved Products: "Model RDW"; Karp Associates, Inc (800-888-4212) "Style DW"; Milcor, Inc., a brand of Commercial Products Group of Hart & Cooley, Inc.
	 wall systems that has not been shown on the Drawings. 2. Refer to Section 07 62 00 - "Flashing and Sheet Metal" for additional flashing requirements. B. Unless noted otherwise, provide the following sheet metal accessories, factory-formed of the same material in the same finish as wall panels: 	 (800-624-8642) c. Model WB-DW; Williams Brothers Corporation of America (800-255-5515) d. "WB Series"; J.L. Industries (800-554-6077) e. "NW Series"; Nystrom Building Products (800-447-2635)
	 Flashings Sealing Tape: Pressure-sensitive, 100 percent solids gray polyisobutylene compound sealing tape with release paper backing. Provide permanently elastic, non-sag, non-toxic, non staining tape 1/2" 	 Performance Criteria Door Size: Select from manufacturer's standard sizes to suit required opening. Sheet metal construction with concealed continuous hinge, flush design. Provide each door with self-closing mechanism and standard flush design "self-latching" latch.
F	wide and 1/8" thick. D. Joint Sealant: One-part elastomeric polyurethane, polysulfide, or silicone rubber sealant, as recommended by the building manufacturer.	SECTION 087100 - DOOR HARDWARE DOOR HARDWARE SCHEDULE: PREPARED BY OR UNDER THE SUPERVISION OF INSTALLER'S
	<u>SECTION 079200 - JOINT SEALANTS</u> PROVIDE JOINT SEALANTS, BACKINGS, AND OTHER RELATED MATERIALS THAT ARE COMPATIBLE WITH ONE ANOTHER AND WITH JOINT SUBSTRATES UNDER CONDITIONS OF	ARCHITECTURAL HARDWARE CONSULTANT. COORDINATE DOOR HARDWARE SCHEDULE WITH DOORS, FRAMES, AND RELATED WORK TO ENSURE PROPER SIZE, THICKNESS, HAND, FUNCTION, AND FINISH OF DOOR HARDWARE.
	SERVICE AND APPLICATION, AS DEMONSTRATED BY JOINT-SEALANT MANUFACTURER, BASED ON TESTING AND FIELD EXPERIENCE. SPECIAL INSTALLER'S WARRANTY: INSTALLER AGREES TO REPAIR OR REPLACE JOINT	ARCHITECTURAL HARDWARE CONSULTANT QUALIFICATIONS: A PERSON WHO IS CURRENTLY CERTIFIED BY DHI AS AN ARCHITECTURAL HARDWARE CONSULTANT AND WHO IS EXPERIENCED IN PROVIDING CONSULTING SERVICES FOR DOOR HARDWARE INSTALLATIONS
Е	SECONE INSTALLER'S WARNANT TO INSTALLER AGALES TO REPAIR OR REPLACE JOINT SEALANTS THAT DO NOT COMPLY WITH PERFORMANCE AND OTHER REQUIREMENTS SPECIFIED IN THIS SECTION WITHIN TWO YEARS YEARS FROM DATE OF SUBSTANTIAL COMPLETION.	THAT ARE COMPARABLE IN MATERIAL, DESIGN, AND EXTENT TO THAT INDICATED FOR THIS PROJECT.
	SPECIAL MANUFACTURER'S WARRANTY: MANUFACTURER AGREES TO FURNISH JOINT SEALANTS TO REPAIR OR REPLACE THOSE JOINT SEALANTS THAT DO NOT COMPLY WITH PERFORMANCE AND OTHER REQUIREMENTS SPECIFIED IN THIS SECTION WITHIN FIVE YEARS	WITH SURROUNDING CONSTRUCTION. COORDINATE INSTALLATION OF DOOR HARDWARE, KEYING, AND ACCESS WITH OWNER'S
	FROM DATE OF SUBSTANTIAL COMPLETION. SPECIAL WARRANTIES SPECIFIED IN THIS ARTICLE EXCLUDE DETERIORATION OR FAILURE OF JOINT SEALANTS FROM THE FOLLOWING:	SECURITY CONSULTANT. COORDINATE LAYOUT AND INSTALLATION OF ELECTRIFIED DOOR HARDWARE WITH CONNECTIONS TO POWER SUPPLIES AND SECURITY SYSTEMS.
	A. MOVEMENT OF THE STRUCTURE CAUSED BY STRESSES ON THE SEALANT EXCEEDING SEALANT MANUFACTURER'S WRITTEN SPECIFICATIONS FOR SEALANT ELONGATION AND COMPRESSION.	MAINTENANCE TOOLS AND INSTRUCTIONS: FURNISH A COMPLETE SET OF SPECIALIZED TOOLS AND MAINTENANCE INSTRUCTIONS AS NEEDED FOR OWNER'S CONTINUED ADJUSTMENT, MAINTENANCE, AND REMOVAL AND REPLACEMENT OF DOOR HARDWARE.
D	 B. DISINTEGRATION OF JOINT SUBSTRATES FROM CAUSES EXCEEDING DESIGN SPECIFICATIONS. C. MECHANICAL DAMAGE CAUSED BY INDIVIDUALS, TOOLS, OR OTHER OUTSIDE AGENTS. D. CHANGES IN SEALANT APPEARANCE CAUSED BY ACCUMULATION OF DIRT OR OTHER 	ACCESSIBILITY REQUIREMENTS: FOR DOOR HARDWARE ON DOORS IN AN ACCESSIBLE ROUTE, COMPLY WITH THE DOJ'S "2010 ADA STANDARDS FOR ACCESSIBLE DESIGN", AND ICC A117.1.
	ATMOSPHERIC CONTAMINANTS. MANUFACTURER'S STANDARD COLORS AS SELECTED BY OWNER.	BASIS-OF-DESIGN MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS AS SCHEDULED ON DRAWINGS OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS:
	SUBJECT TO COMPLIANCE WITH REQUIREMENTS PROVIDE PRODUCTS SPECIFIED IN THIS SECTION BY ONE OF THE FOLLOWING: A. GE CONSTRUCTION SEALANTS B. PECORA CORPORATION	A. <u>THRESHOLDS, SEALS, SWEEPS, GASKETING: REESE ENTERPRISES; ZERO</u> B. <u>DOOR CLOSERS: NORTON; SARGENT</u> C. <u>HINGES: IVES; STANLEY</u> D. <u>LOCKS AND LATCHES: FALCON; SARGENT</u>
0	C. TREMCO INCORPORATED ELASTOMERIC SEALANTS:	DOOR HARDWARE IS SCHEDULED ON DRAWINGS. PROVIDE PRODUCTS FOR EACH DOOR THAT COMPLY WITH THE REQUIREMENTS INDICATED BELOW: A. HINGES: BMHA A156.1 PROVIDE TEMPLATE-PRODUCED HINGES FOR HINGES
С	 A. URETHANE, M, NS, 50, NT: MULTICOMPONENT, NONSAG, PLUS 50 PERCENT AND MINUS 50 PERCENT MOVEMENT CAPABILITY NONTRAFFIC-USE, URETHANE JOINT SEALANT; ASTM C 920, TYPE M, GRADE NS, CLASS 50, USE NT. B. LOCATIONS: PERIMETER JOINTS BETWEEN ROUGH OPENINGS AND FRAMES OF 	INSTALLED ON HOLLOW-METAL DOORS AND HOLLOW-METAL FRAMES. B. CONTINUOUS HINGES: BHMA A156.26; MINIMUM 0.120-INCH- THICK, HINGE LEAVES WITH MINIMUM OVERALL WIDTH OF 4 INCHES; FABRICATED TO FULL HEIGHT OF DOOR AND
	DOORS AND WINDOWS. JOINTS BETWEEN METAL PANELS. JOINTS IN EXTERIOR INSULATION AND FINISH SYSTEMS. MILDEW RESISTANT JOINT SEALANTS:	 FRAME AND TO TEMPLATE SCREW LOCATIONS; WITH COMPONENTS FINISHED AFTMILLING AND DRILLING ARE COMPLETE. C. LOCK TRIM: ADA COMPLIMENT LEVEL STYLE AS INDICATED ON DRAWINGS. D. STRIKES: PROVIDE MANUFACTURER'S STANDARD STRIKE FOR EACH LOCK BOLT OR
	 A. FORMULATED FOR PROLONGED EXPOSURE TO HUMIDITY WITH FUNGICIDE TO PREVENT MOLD AND MILDEW GROWTH. B. SILICONE, MILDEW RESISTANT, ACID CURING, S, NS, 25, NT: MILDEW-RESISTANT, 	LATCHBOLT COMPLYING WITH REQUIREMENTS INDICATED FOR APPLICABLE LOCK OR LATCH AND WITH STRIKE BOX AND CURVED LIP EXTENDED TO PROTECT FRAME; FINISHED TO MATCH LOCK OR LATCH. E. BORED LOCKS: BHMA A156.2
В	SINGLE- COMPONENT, NONSAG, PLUS 25 PERCENT AND MINUS 25 PERCENT MOVEMENT CAPABILITY, NONTRAFFIC-USE, ACID-CURING SILICONE JOINT SEALANT; ASTM C 920, TYPE S, GRADE NS, CLASS 25, USE NT. C. LOCATIONS: INTERIOR JOINTS BETWEEN PLUMBING FIXTURES AND ADJOINING	 F. MORTISE LOCKS: BHMA A156.13 G. ROLLER LATCHES: BHMA A156.16 H. MANUAL FLUSH BOLTS: BHMA A156.16
	WALLS, FLOORS, AND COUNTERS. LATEX SEALANTS: A. ACRYLIC LATEX: ACRYLIC LATEX OR SILICONIZED ACRYLIC LATEX, ASTM C 834,	 AUTOMATIC AND SELF-LATCHING FLUSH BOLTS: BHMA A156.16 EXIT DEVICES AND AUXILIARY ITEMS: BHMA A156.3 CYLINDERS: MECHANICAL LOCKS SHALL BE COMPATIBLE TO ACCEPT [MFR] INTERCHANGEABLE CORES. CONFIRM REQUIRED CORE SIZES WITH OWNER PRIOR TO
	 ACATELIC LATEX. ACATELIC LATEX ON SILICONIZED ACATELIC LATEX, AS IN C 834, TYPE OP, GRADE NF. B. LOCATIONS: PERIMETER JOINTS BETWEEN INTERIOR WALL SURFACES AND FRAMES OF INTERIOR DOORS AND WINDOWS. 	PREPARING SUBMITTAL TO ENSURE COMPONENTS WILL WORK WITH EXISTING CONDITIONS AND DESIRED KEYING SYSTEM. L. SURFACE CLOSERS: BHMA A156.4; RACK-AND-PINION HYDRAULIC TYPE WITH ADJUSTABLE SWEEP AND LATCH SPEEDS CONTROLLED BY KEY-OPERATED VALVES
		AND FORGED-STEEL MAIN ARM. COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS FOR SIZE OF DOOR CLOSERS DEPENDING ON SIZE OF DOOR, EXPOSURE TO WEATHER, AND ANTICIPATED FREQUENCY OF USE. PROVIDE FACTORY- SIZED CLOSERS, ADJUSTABLE TO MEET FIELD CONDITIONS AND REQUIREMENTS FOR
А		 SIZED CLOSERS, ADJUSTABLE TO MEET FIELD CONDITIONS AND REQUIREMENTS FOR OPENING FORCE. M. WALL- AND FLOOR-MOUNTED STOPS: BHMA A156.16. N. THRESHOLDS: BHMA A156.21; FABRICATED TO FULL WIDTH OF OPENING INDICATED.

SECTION 087100 - DOOR HARDWARE (CONT'D)

ADJUST AND CHECK EACH OPERATING ITEM OF DOOR HARDWARE AND EACH DOOR TO ENSURE PROPER OPERATION OR FUNCTION OF EVERY UNIT. REPLACE UNITS THAT CANNOT BE ADJUSTED TO OPERATE AS INTENDED. ADJUST DOOR CONTROL DEVICES TO COMPENSATE FOR FINAL OPERATION OF HEATING AND VENTILATING EQUIPMENT AND TO COMPLY WITH REFERENCED ACCESSIBILITY REQUIREMENTS. A. DOOR CLOSERS: ADJUST SWEEP PERIOD TO COMPLY WITH ACCESSIBILITY

REQUIREMENTS AND REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION. $\widetilde{}$

092900 - GYPSUM BOARD

COMPLY WITH ASTM C 840 REQUIREMENTS OR GYPSUM BOARD MANUFACTURER'S WRITTEN INSTRUCTIONS, WHICHEVER ARE MORE STRINGENT.

- PERFORMANCE REQUIREMENTS:
- A. FIRE-TEST-RESPONSE CHARACTERISTICS: FOR FIRE-RESISTANCE-RATED ASSEMBLIES THAT INCORPORATE NON-LOAD-BEARING STEEL FRAMING, PROVIDE MATERIALS AND
- CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLY INDICATED, ACCORDING TO ASTM F 119 BY AN INDEPENDENT TESTING AGENCY. B. STC-RATED ASSEMBLIES: FOR STC-RATED ASSEMBLIES, PROVIDE MATERIALS AND CONSTRUCTION IDENTICAL TO THOSE TESTED IN ASSEMBLY INDICATED. ACCORDING
- TO ASTM E 90 AND CLASSIFIED ACCORDING TO ASTM E 413 BY AN INDEPENDENT TESTING AGENCY.

MOLD-RESISTANT FIBERGLASS MAT FACED GYPSUM BOARD:

- BASIS OF DESIGN: GOLD BOND BUILDING PRODUCTS, LLC, GOLD BOND® EXP® INTERIOR EXTREME® GYPSUM PANEL, PROVIDED BY NATIONAL GYPSUM COMPANY. SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY ONE OF THE
- FOLLOWING
- a. GEORGIA-PACIFIC BUILDING PRODUCTS. b. CERTAINTEED GYPSUM.
- c. UNITED STATES GYPSUM (USG) CORPORATION. THICKNESS: 5/8"
- CORE: REGULAR. EDGES: TAPERED
- E. MOLD/MILDEW RESISTANCE: ASTM D3273; SCORE OF 10.
- INTERIOR TRIM SHALL COMPLY WITH ASTM C 1047 AND WILL CONSIST OF GALVANIZED OR ALUMINUM COATED STEEL SHEET OR ROLLED ZINC.

COMPLY WITH ASTM C 475/C475 M FOR JOINT TREATMENT MATERIALS.

PROVIDE AUXILIARY MATERIALS THAT COMPLY WITH REFERENCED INSTALLATION STANDARDS AND MANUFACTURER'S WRITTEN INSTRUCTIONS.

SOUND-ATTENUATION BLANKETS: ASTM C 665, TYPE I (BLANKETS WITHOUT MEMBRANE FACING) PRODUCED BY COMBINING THERMOSETTING RESINS WITH MINERAL FIBERS MANUFACTURED FROM GLASS, SLAG WOOL, OR ROCK WOOL.

COMPLY WITH ASTM C840 FOR THE APPLICATION AND FINISHING OF PANELS.

INSTALL SOUND ATTENUATION BLANKETS BEFORE INSTALLING GYPSUM PANELS UNLESS BLANKETS ARE READILY INSTALLED AFTER PANELS HAVE BEEN INSTALLED ON ONE SIDE.

- GYPSUM BOARD FINISH LEVELS: FINISH PANELS TO LEVELS INDICATED BELOW AND ACCORDING TO ASTM C 840:
- LEVEL 1: CEILING PLENUM AREAS, CONCEALED AREAS, AND WHERE INDICATED.
- B. LEVEL 2: PANELS THAT ARE SUBSTRATE FOR TILE. C. LEVEL 3: AT PANEL SURFACES THAT WILL BE COVERED BY COMMERCIAL GRADE
- WALL COVERINGS. D. LEVEL 4: AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW IN NON-PUBLIC

SPACES. E. LEVEL 5: AT PANEL SURFACES THAT WILL BE EXPOSED TO VIEW IN PUBLIC SPACES.

- SECTION 099113 EXTERIOR PAINTING SECTION INCLUDES SURFACE PREPARATION AND THE APPLICATION OF PAINT SYSTEMS ON THE FOLLOWING EXTERIOR SUBSTRATES: GALVANIZED METAL.
- ACTION SUBMITTALS A. PRODUCT DATA: FOR EACH TYPE OF PRODUCT. INCLUDE PREPARATION REQUIREMENTS AND APPLICATION INSTRUCTIONS. B. SAMPLES FOR VERIFICATION: FOR EACH TYPE OF PAINT SYSTEM AND EACH COLOR AND
 - GLOSS OF TOPCOAT. SUBMIT SAMPLES ON RIGID BACKING, 8 INCHES SQUARE. STEP COATS ON SAMPLES TO SHOW EACH COAT REQUIRED FOR SYSTEM. LABEL EACH COAT OF EACH SAMPLE. LABEL EACH SAMPLE FOR LOCATION AND APPLICATION AREA.
- FURNISH EXTRA MATERIALS THAT MATCH PRODUCTS INSTALLED AND THAT ARE PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABELS DESCRIBING CONTENTS. PAINT: 5 PERCENT, BUT NOT LESS THAN 1 GAL. OF EACH MATERIAL AND COLOR
- APPLIED. APPLY PAINTS ONLY WHEN TEMPERATURE OF SURFACES TO BE PAINTED AND AMBIENT AIR
- TEMPERATURES ARE BETWEEN 50 AND 95 DEG F DO NOT APPLY PAINTS IN SNOW, RAIN, FOG, OR MIST; WHEN RELATIVE HUMIDITY EXCEEDS 85 PERCENT; AT TEMPERATURES LESS THAN 5 DEG F ABOVE THE DEW POINT; OR TO DAMP OR

WET SURFACES. BASIS-OF-DESIGN MANUFACTURER: SUBJECT TO COMPLIANCE WITH REQUIREMENTS, PROVIDE PRODUCTS BY THE SHERWIN-WILLIAMS COMPANY OR A COMPARABLE PRODUCT BY ONE OF THE FOLLOWING MANUFACTURERS:

1. BENJAMIN MOORE & CO 2. PPG ARCHITECTURAL FINISHES, INC.

- MATERIAL COMPATIBILITY: PROVIDE MATERIALS FOR USE WITHIN EACH PAINT SYSTEM THAT ARE COMPATIBLE WITH ONE ANOTHER AND SUBSTRATES INDICATED, UNDER
 - CONDITIONS OF SERVICE AND APPLICATION AS DEMONSTRATED BY MANUFACTURER, BASED ON
- 2. FOR EACH COAT IN A PAINT SYSTEM, PROVIDE PRODUCTS RECOMMENDED IN WRITING BY MANUFACTURERS OF TOPCOAT FOR USE IN PAINT SYSTEM AND ON SUBSTRATE INDICATED
- B. VOC CONTENT: PROVIDE MATERIALS THAT COMPLY WITH VOC LIMITS OF AUTHORITIES HAVING JURISDICTION. C. COLORS: AS SELECTED BY OWNER.

PRIMER, GALVANIZED: AS RECOMMENDED IN WRITING BY TOPCOAT MANUFACTURER. LIGHT INDUSTRIAL COATING, EXTERIOR, WATER BASED SEMI-GLOSS (GLOSS LEVEL 5) : 1. SHERWIN-WILLIAMS; PRO INDUSTRIAL DTM SEMI-GLOSS B66W01151

TESTING OF PAINT MATERIALS: OWNER RESERVES THE RIGHT TO INVOKE THE FOLLOWING PROCEDURE:

- OWNER WILL ENGAGE THE SERVICES OF A QUALIFIED TESTING AGENCY TO SAMPLE PAINT MATERIALS. CONTRACTOR WILL BE NOTIFIED IN ADVANCE AND MAY BE PRESENT WHEN SAMPLES ARE TAKEN. IF PAINT MATERIALS HAVE ALREADY BEEN DELIVERED TO PROJECT SITE, SAMPLES MAY BE TAKEN AT
- AGENCY. 2. TESTING AGENCY WILL PERFORM TESTS FOR COMPLIANCE WITH PRODUCT
- REQUIREMENTS. OWNER MAY DIRECT CONTRACTOR TO STOP APPLYING PAINTS IF TEST RESULTS SHOW MATERIALS BEING USED DO NOT COMPLY WITH PRODUCT REQUIREMENTS. CONTRACTOR SHALL REMOVE NONCOMPLYING PAINT MATERIALS FROM PROJECT SITE, PAY FOR TESTING, AND REPAINT SURFACES PAINTED WITH REJECTED MATERIALS. CONTRACTOR WILL BE REQUIRED TO REMOVE REJECTED MATERIALS FROM PREVIOUSLY PAINTED SURFACES IF, ON REPAINTING WITH
- COMPLYING MATERIALS, THE TWO PAINTS ARE INCOMPATIBLE VERIFY SUITABILITY OF SUBSTRATES, INCLUDING SURFACE CONDITIONS AND COMPATIBILITY WITH EXISTING FINISHES AND PRIMERS.

COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI MANUAL" APPLICABLE TO SUBSTRATES AND PAINT SYSTEMS INDICATED.

REMOVE HARDWARE, COVERS, PLATES, AND SIMILAR ITEMS ALREADY IN PLACE THAT ARE REMOVABLE AND ARE NOT TO BE PAINTED. IF REMOVAL IS IMPRACTICAL OR IMPOSSIBLE BECAUSE OF SIZE OR WEIGHT OF ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND PAINTING.

AFTER COMPLETING PAINTING OPERATIONS, USE WORKERS SKILLED IN THE TRADES INVOLVED TO REINSTALL ITEMS THAT WERE REMOVED. REMOVE SURFACE-APPLIED PROTECTION.

SECTION 099113 - EXTERIOR PAINTING (CONT'D)

GALVANIZED-METAL SUBSTRATES: REMOVE GREASE AND OIL RESIDUE FROM GALVANIZED SHEET METAL BY MECHANICAL METHODS TO PRODUCE CLEAN, LIGHTLY ETCHED SURFACES THAT PROMOTE ADHESION OF SUBSEQUENTLY APPLIED PAINTS.

APPLY PAINTS IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND **RECOMMENDATIONS IN "MPI MANUAL."**

IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE.

APPLY PAINTS TO PRODUCE SURFACE FILMS WITHOUT CLOUDINESS, SPOTTING, HOLIDAYS, LAPS, BRUSH MARKS, ROLLER TRACKING, RUNS, SAGS, ROPINESS, OR OTHER SURFACE IMPERFECTIONS. CUT IN SHARP LINES AND COLOR BREAKS.

- DRY FILM THICKNESS TESTING: OWNER MAY ENGAGE THE SERVICES OF A QUALIFIED TESTING AND INSPECTING AGENCY TO INSPECT AND TEST PAINT FOR DRY FILM THICKNESS.
- CONTRACTOR SHALL TOUCH UP AND RESTORE PAINTED SURFACES DAMAGED BY TESTING. 2. IF TEST RESULTS SHOW THAT DRY FILM THICKNESS OF APPLIED PAINT DOES NOT COMPLY WITH PAINT MANUFACTURER'S WRITTEN RECOMMENDATIONS. CONTRACTOR SHALL PAY FOR TESTING AND APPLY ADDITIONAL COATS AS NEEDED TO PROVIDE DRY FILM THICKNESS THAT COMPLIES WITH PAINT

EXTERIOR PAINTING SCHEDULE A. GALVANIZED-METAL SUBSTRATES:

1. WATER-BASED LIGHT INDUSTRIAL COATING SYSTEM: PRIME COAT: PRIMER, GALVANIZED, WATER BASED, MPI #134.

MANUFACTURER'S WRITTEN RECOMMENDATIONS.

- INTERMEDIATE COAT: LIGHT INDUSTRIAL COATING, EXTERIOR, WATER BASED, MATCHING TOPCOAT. C. TOPCOAT: SEMIGLOSS TOPCOAT: LIGHT INDUSTRIAL COATING, EXTERIOR,
- WATER BASED, SEMIGLOSS (MPI GLOSS LEVEL 5)[, MPI #163]

099123 - INTERIOR PAINTING

- DEFINITIONS: A. MPI GLOSS LEVEL 1: NOT MORE THAN FIVE UNITS AT 60 DEGREES AND 10 UNITS T 85 DEGREES, ACCORDING TO ASTM D 523.
- B. MPI GLOSS LEVEL 2: NOT MORE THAN 10 UNITS AT 60 DEGREES AND 10 TO 35 UNITS AT 85 DEGREES, ACCORDING TO ASTM D 523.
- C. MPI GLOSS LEVEL 3: 10 TO 25 UNITS AT 60 DEGREES AND 10 TO 35 UNITS AT 85 DEGREES, ACCORDING TO ASTM D 523.
- D. MPI GLOSS LEVEL 4: 20 TO 35 UNITS AT 60 DEGREES AND NOT LESS THAN 35 UNITS AT 85 DEGREES, ACCORDING TO ASTM D 523.
- MPI GLOSS LEVEL 5: 35 TO 70 UNITS AT 60 DEGREES, ACCORDING TO ASTM D 523. MPI GLOSS LEVEL 6: 70 TO 85 UNITS AT 60 DEGREES, ACCORDING TO ASTM D 523.
- G. MPI GLOSS LEVEL 7: MORE THAN 85 UNITS AT 60 DEGREES, ACCORDING TO ASTM D

SUBMIT PRODUCT DATA FOR EACH TYPE OF PRODUCT. INCLUDE PREPARATION REQUIREMENTS AND APPLICATION INSTRUCTIONS.

- INCLUDE PRINTOUT OF CURRENT "MPI APPROVED PRODUCTS LIST" FOR EACH PRODUCT CATEGORY SPECIFIED, WITH THE PROPOSED PRODUCT HIGHLIGHTED. B. INDICATE VOC CONTENT.
- LABEL ALL SAMPLE SUBMITTALS FOR LOCATION AND APPLICATION AREA.

FURNISH EXTRA MATERIALS THAT MATCH PRODUCTS INSTALLED AND THAT AR PACKAGED WITH PROTECTIVE COVERING FOR STORAGE AND IDENTIFIED WITH LABEL DESCRIBING CONTENTS. NOT LESS THAN 1 GALLON OF EACH MATERIAL SPECIFIED.

APPLY PAINTS ONLY WHEN TEMPERATURE OF SURFACES TO BE PAINTED AND AMBIENT AIR TEMPERATURES ARE BETWEEN 50 AND 95 DEGREES F

DO NOT APPLY PAINTS WHEN RELATIVE HUMIDITY EXCEEDS 85 PERCENT; AT TEMPERATURES LESS THAN 5 DEGREES F ABOVE THE DEW POINT; OR TO DAMP OR WET SURFACES. MANUFACTURERS SUBJECT TO COMPLIANCE WITH REQUIREMENTS, AVAILABLE

MANUFACTURES OFFERING PRODUCTS THAT MAY BE INCORPORATED INTO THE WORK INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING: BENJAMIN MOORE, DULUX (FORMERLY ICI), 1. PPG

2. SHERWIN - WILLIAMS.

VERIFY SUITABILITY OF SUBSTRATES, INCLUDING SURFACE CONDITIONS AND COMPATIBILITY, WITH EXISTING FINISHES AND PRIMERS

COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS AND RECOMMENDATIONS IN "MPI ARCHITECTURAL PAINTING SPECIFICATION MANUAL" APPLICABLE TO SUBSTRATES AND PAITN SYSTEMS INDICATED.

REMOVE HARDWARE, COVERS, PLATES, AND SIMILAR ITEMS ALREADY IN PLACE THAT ARE REMOVABLE AND ARE NO TO BE PAINTED. IF REMOVAL IS IMPRACTICAL OR IMPOSSIBLE BECAUSE OF SIZE OR WEIGHT OF ITEM, PROVIDE SURFACE-APPLIED PROTECTION BEFORE SURFACE PREPARATION AND PAINTING.

AFTER COMPLETING PAINTING OPERATIONS, USE WORKERS SKILLED IN THE TRADES INVOLVED TO REINSTALL ITEMS THAT WERE REMOVED. REMOVE SURFACE-APPLIED PROTECTION IF ANY.

CONCRETE SUBSTRATES: REMOVE RELEASE AGENTS, CURING COMPOUNDS EFFLORESCENCE, AND CHALK. DO NOT PAINT SURFACES IF MOISTURE CONTENT OR ALKALINITY OF SURFACES TO BE PAINTED EXCEEDS THAT PERMITTED IN MANUFACTURER'S WRITTEN INSTRUCTIONS.

MASONRY SUBSTRATES: REMOVE EFFLORESCENCE AND CHALK. DO NOT PAINT SURFACES IF MOISTURE CONTENT OR ALKALINITY OF SURFACES OR MORTAR JOINTS EXCEEDS THAT PERMITTED IN MANUFACTURER'S WRITTEN INSTRUCTIONS.

STEEL SUBSTRATES: REMOVE RUST, LOOSE MILL SCALE, AND SHOP PRIMER, IF ANY. CLEAN USING METHODS RECOMMENDED IN WRITING BY PAINT MANUFACTURER.

SHOP-PRIMED STEEL SUBSTRATES: CLEAN FIELD WELDS, BOLTED CONNECTIONS, AND AREAS WHERE SHOP PAINT IS ABRADED. PAINT EXPOSED AREAS WITH THE SAME MATERIAL AS USED FOR SHOP PRIMING TO COMPLY WITH SSPC-PA FOR TOUCHING UP SHOP-PRIMED SURFACES

GALVANIZED-METAL SUBSTRATES: REMOVE GREASE AND OIL RESIDUE FROM GALVANIZED SHEET METAL BY MECHANICAL METHODS TO PRODUCE CLEAN, LIGHTLY ETCHED SURFACES THAT PROMOTE ADHESION OF SUBSEQUENTLY APPLIED PAINTS. ALUMINUM SUBSTRATES: REMOVE LOOSE SURFACE OXIDATION.

WOOD SUBSTRATES: A. SCRAPE AND CLEAN KNOTS, AND APPLY COAT OF KNOW SEALER BEFORE APPLYING

- PRIMER B. SAND SURFACES THAT WILL BE EXPOSED TO VIEW, AND DUST OFF.
- PRIME EDGES, ENDS, FACES, UNDERSIDES, AND BACKSIDES OF WOOD. D. AFTER PRIMING, FILL HOLES AND IMPERFECTIONS IN THE FINISH SURFACES WITH
- PUTTY OR PLASTIC WOOD FILLER. SAND SMOOTH WHEN DRIED.

APPLY PAINTS ACCORDING TO MANUFACTURER'S WRITTEN INSTRUCTIONS IF UNDERCOATS OR OTHER CONDITIONS SHOW THROUGH TOPCOAT, APPLY ADDITIONAL

COATS UNTIL CURED FILM HAS A UNIFORM PAINT FINISH, COLOR, AND APPEARANCE.

PAINTING MECHANICAL AND ELECTRICAL WORK: PAINT ITEMS EXPOSED IN EQUIPMENT ROOMS AND OCCUPIED SPACES INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING: A. PRIMED METAL SURFACES OF EQUIPMENT (ELECTRICAL AND MECHANICAL) B. DUCTS WHERE EXPOSED IN OCCUPIED SPACES, VERIFY LOCATIONS WITH ARCHITECT. OTHER ITEMS AS DIRECTED BY ARCHITECT.

DRY FILM THICKNESS TESTING: OWNER MAY ENGAGE THE SERVICES OF A QUALIFIED TESTING AND INSPECTING AGENCY TO INSPECT AND TEST PAINT FOR DRY FILM THICKNESS. A. CONTRACTOR SHALL TOUCH UP AND RESTORE PAINTED SURFACES DAMAGED BY TESTING

B. IF TESTS RESULTS SHOW THAT DRY FILM THICKNESS OF APPLIED PAINT DOES NOT COMPLY WITH PAINT MANUFACTURER'S WRITTEN RECOMMENDATIONS, CONTRACTOR SHALL PAY FOR TESTING AND APPLY ADDITIONAL COATS AS NEEDED TO PROVIDE DRY FILM THICKNESS THAT COMPLIES WITH PAINT MANUFACTURER'S WRITTEN RECOMMENDATIONS.

INTERIOR PAINTING SCHEDULE A. STEEL SUBSTRATES:

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- 1. WATER-BASED LIGHT INDUSTRIAL COATING SYSTEM: PRIME COAT: PRIMER, RUST-INHIBITIVE, WATER BASED MPI #107. PRIME COAT: SHOP PRIMER SPECIFIED IN SECTION WHERE SUBSTRATE IS
- SPECIFIED. INTERMEDIATE COAT: ALKYD, INTERIOR, MATCHING TOPCOAT.
- TOPCOAT: ALKYD, INTERIOR, SEMI-GLOSS (GLOSS LEVEL 5) MPI #47 B. WOOD SUBSTRATES: INCLUDING DOORS AND FRAMES.
- LATEX SYSTEM: PRIME COAT: PRIMER, LATEX, FOR INTERIOR WOOD, MPI #39. INTERMEDIATE COAT: LATEX, INTERIOR, MATCHING TOPCOAT. TOPCOAT: LATEX, INTERIOR, (GLOSS LEVEL 4) MPI #43.
- C. GYPSUM BOARD AND PLASTER SUBSTRATES: 1. LATEX SYSTEM:
 - a. PRIME COAT: PRIMER SEALER, LATEX, INTERIOR, MPI #150. INTERMEDIATE COAT: LATEX. INTERIOR. MATCHING TOPCOAT.
 - TOPCOAT: LATEX, INTERIOR, FLAT (GLOSS LEVEL 1) MPI #53 FOR CEILINGS. TOPCOAT: LATEX, INTERIOR, EGGSHELL (GLOSS LEVEL 3) MPI #52 FOR WALLS.

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BUNCOMBE COUNTY SPORTS PARK **RESTROOM BUILDING**

58 APAC DRIVE ASHEVILLE, NC

Prepared For BUNCOMBE COUNTY

58 APAC DRIVE, ASHEVILLE,



Akron, Ohio 44321-1315

p 330.666.7878

43 South Broad Street, Suite 201

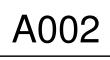
Brevard, North Carolina 28712-3738

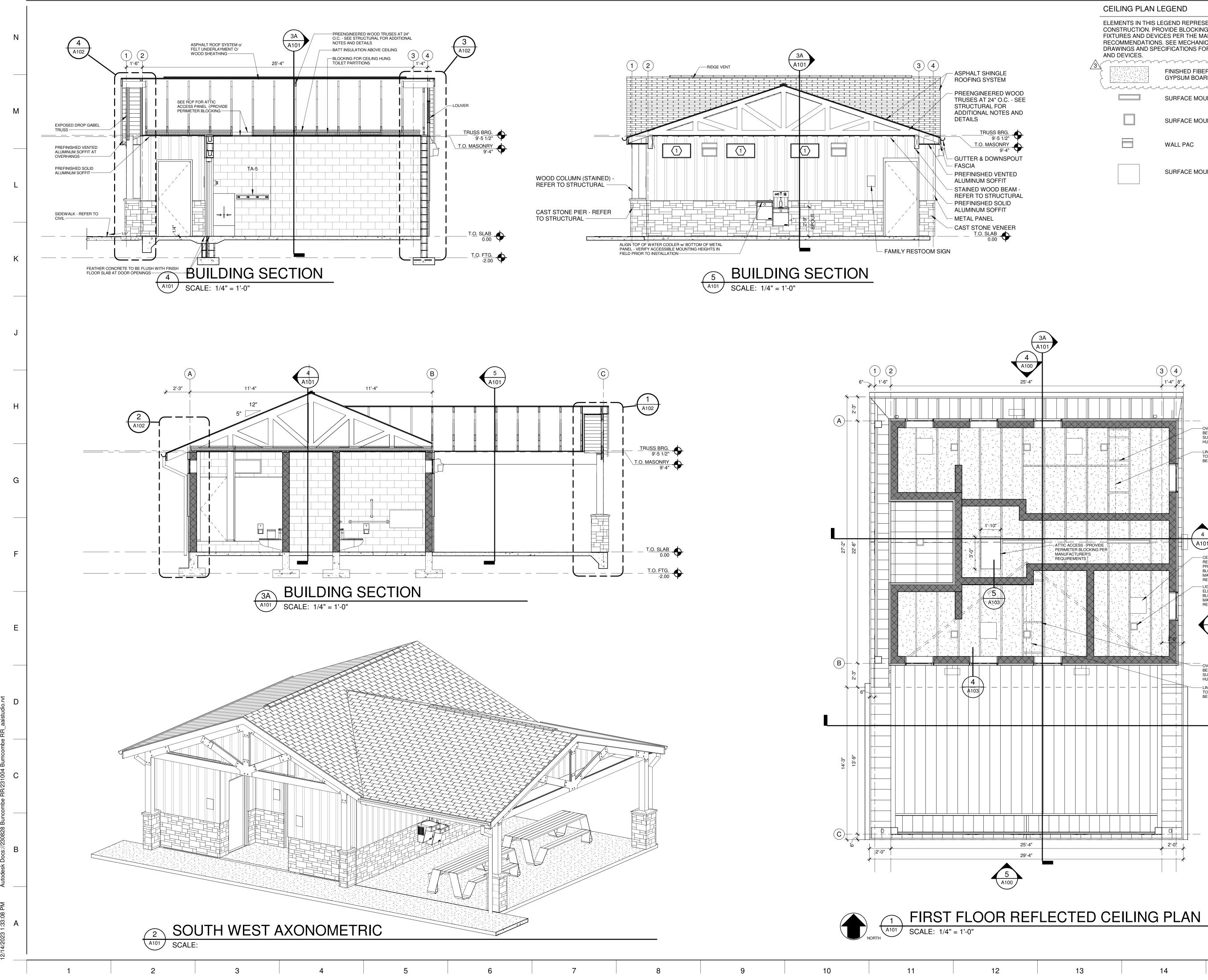
p 828.884.8478 www.domokur.com

Issue	Date	Description
1	11/17/2023	ISSUED FOR BID AND PERMIT
3	12/14/2023	ADDENDUM A

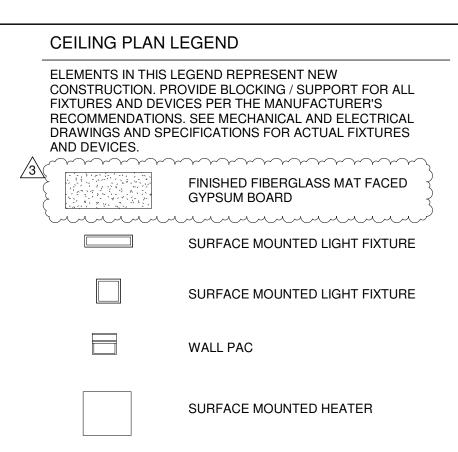
SPECIFICATIONS

Project No: 2022090 Project Manager: MTT Drawn By: Author





7	8	9	10	11	12



GENERAL NOTES

- A. ACOUSTICAL CEILING GRIDS ARE CENTERED IN ROOMS IN BOTH DIRECTIONS UNLESS SPECIFICALLY DIMENSIONED OR NOTED OTHERWISE.
- B. CENTER ALL FIXTURES IN CEILING TILES UNLESS NOTED OR DIMENSIONED OTHERWISE.

BUNCOMBE COUNTY SPORTS PARK **RESTROOM BUILDING**

58 APAC DRIVE ASHEVILLE, NC

Prepared For BUNCOMBE COUNTY

58 APAC DRIVE, ASHEVILLE, NC

DOMOKUR ARCHITECTS

4651 Medina Road

Akron, Ohio 44321-1315

p 330.666.7878

43 South Broad Street, Suite 201 Brevard, North Carolina 28712-3738

p 828.884.8478

www.domokur.com



lssue	Date	Description
1	11/17/2023	ISSUED FOR BID AND PERMIT
3	12/14/2023	ADDENDUM A

BUILDING SECTIONS & RCP



1'-4" 8" - OVERHEAD BLOCKING BETWEEN JOISTS FOR SUPPORT OF CEILING HUNG TOILET PARTITIONS - Line of Ceiling Hung Toilet Partitions Below - See Floor Plan ATTIC ACCESS - PROVIDE | - PERIMETER BLOCKING PER MANUFACTURER'S REQUIREMENTS A101 CEILING HEATER (TYP) -REFER TO MECHANICAL -PROVIDE BLOCKING/SUPPORT PER MANUFACTURER'S RECOMMENDATION LIGHT (TYP) - REFER TO ELECTRICAL - PROVIDE BLOCKING/SUPPORT PER MANUFACTURER'S RECOMMENDATION (3 A100 LINE OF CEILING HUNG TOILET PARTITIONS BELOW - SEE FLOOR PLAN 5 A101 2'-0"

34

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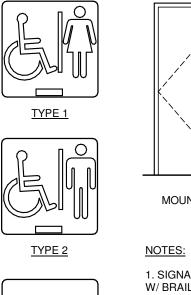
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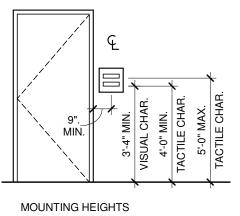
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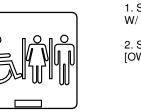
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F

			D	OOR			
DOOR	ROOM	ROOM			SIZE		
NO.	NAME	NO.	TYPE	WD	HT	THK	MAT'L
101	WOMEN	101	Α	3'-0"	7'-0"	1 3/4"	HM
102	MEN	102	A	3'-0"	7'-0"	1 3/4"	HM
103	FAMILY RR	103	A	3'-0"	7'-0"	1 3/4"	HM

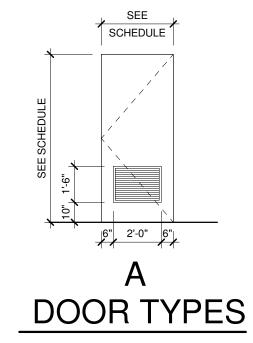


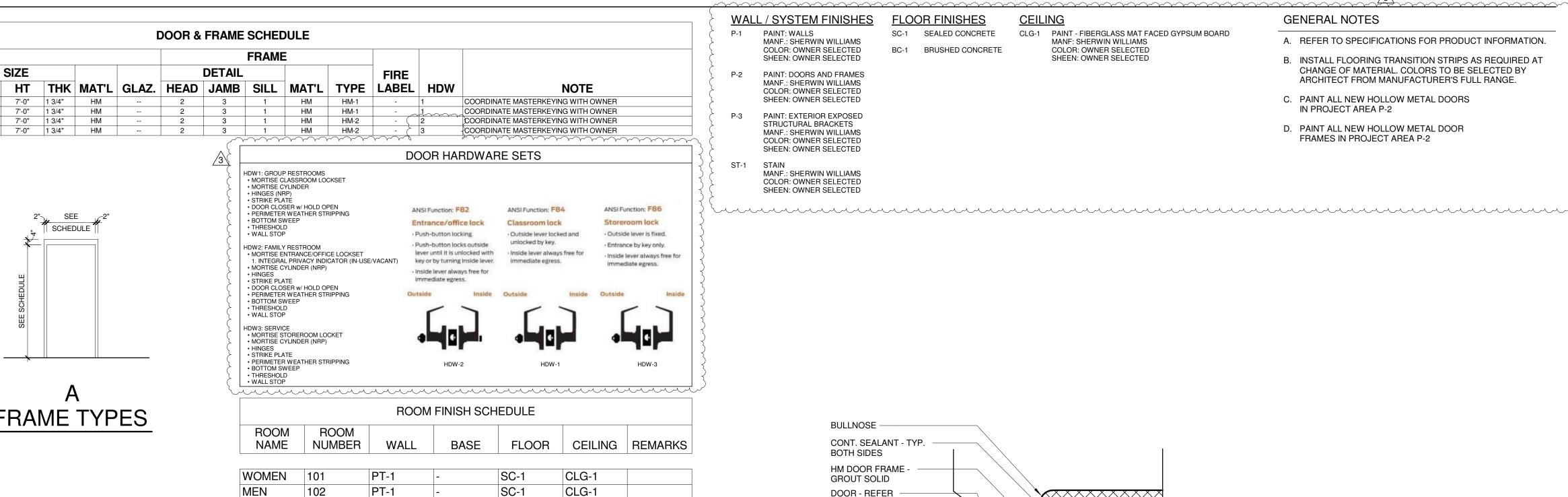




1. SIGNAGE SHALL BE 1/32" RAISED GRAPHIC W/ BRAILLE. 2. SIGNAGE PROVIDED AND INSTALLED BY [OWNER (N.I.C.)] [G.C.]

<u>TYPE 3</u> SIGN MOUNTING DETAILS



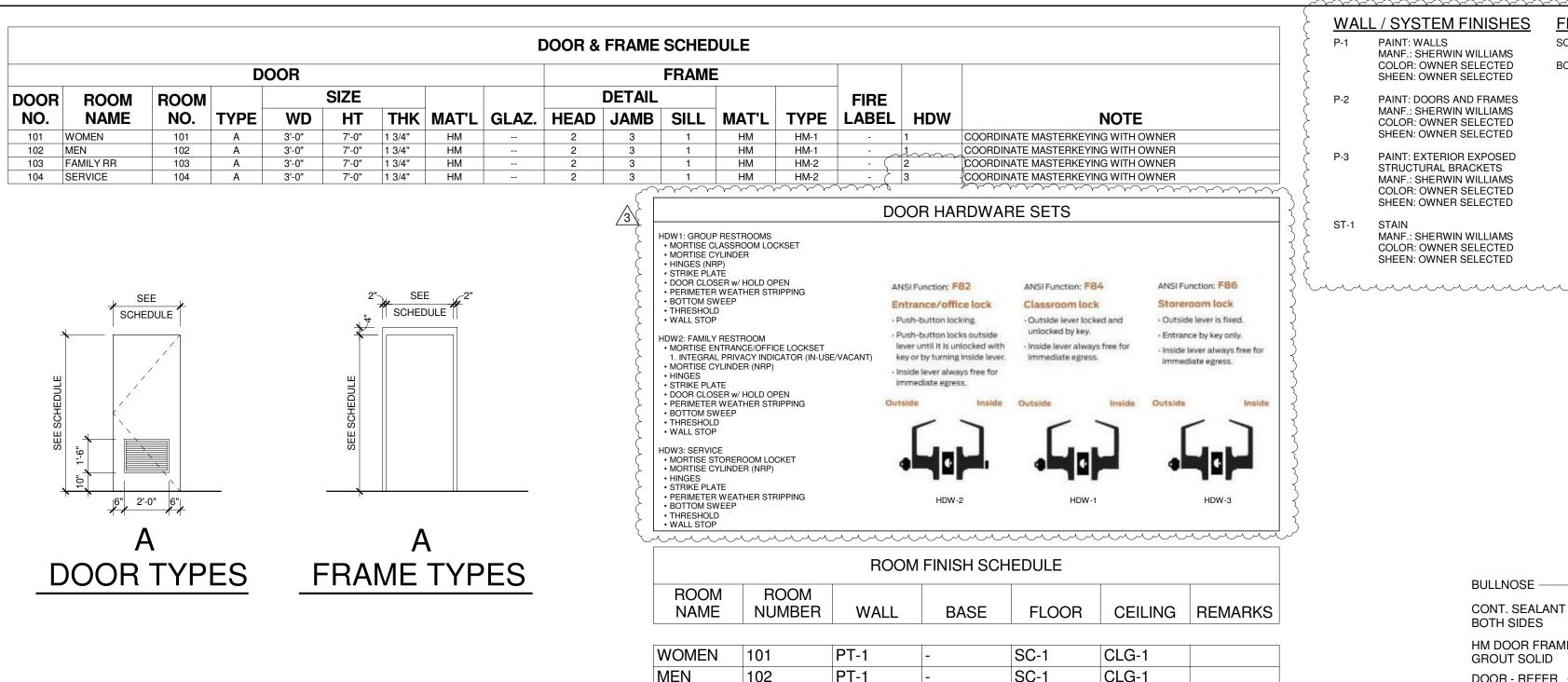


SC-1

SC-1

CLG-1

CLG-1



FAMILY RR 103

SERVICE 104

PT-1

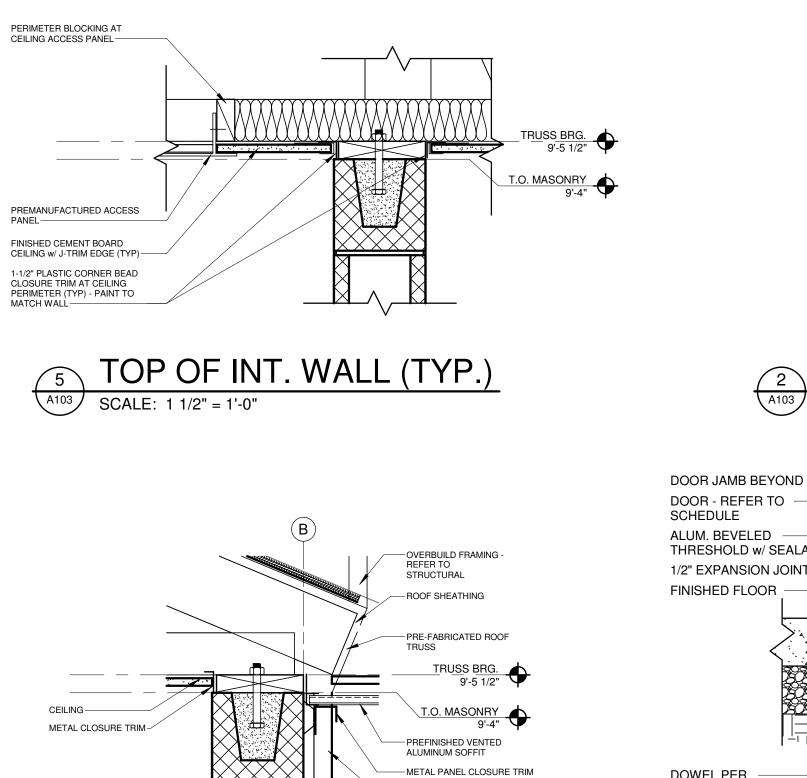
PT-1

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CONT. BACKER ROD AND SEALANT - TYP. METAL CLOSURE TRIM METAL PANEL

TO SCHEDULE



DOWEL PER STRUCTURAL DRAWINGS

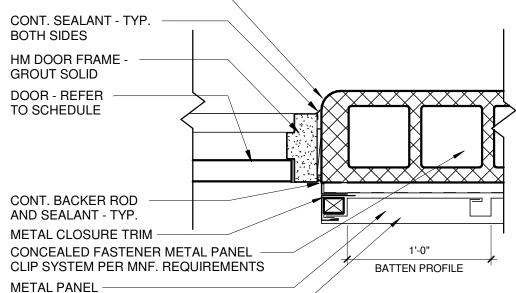
4 SOFFIT DETAIL A103 SCALE: 1 1/2" = 1'-0"

-METAL WALL PANEL

7 9 0 10 11 12						
7 8 9 1 10 1 11 12	7	8	9	10	11	12

FLO	OR FINISHES	CEIL	.ING	GI	ENERAL NOTES
SC-1	SEALED CONCRETE	CLG-1	PAINT - FIBERGLASS MAT FACED GYPSUM BOARD MANF: SHERWIN WILLIAMS	Α	REFER TO SPECIFICATIONS FOR PRODUCT INFORMATION.
BC-1	BRUSHED CONCRETE		COLOR: OWNER SELECTED SHEEN: OWNER SELECTED	B.	INSTALL FLOORING TRANSITION STRIPS AS REQUIRED AT CHANGE OF MATERIAL. COLORS TO BE SELECTED BY ARCHITECT FROM MANUFACTURER'S FULL RANGE.
				C.	PAINT ALL NEW HOLLOW METAL DOORS IN PROJECT AREA P-2

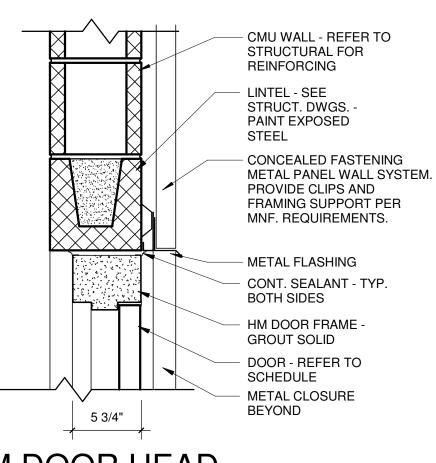
D. PAINT ALL NEW HOLLOW METAL DOOR FRAMES IN PROJECT AREA P-2



CAST STONE VENEER BELOW



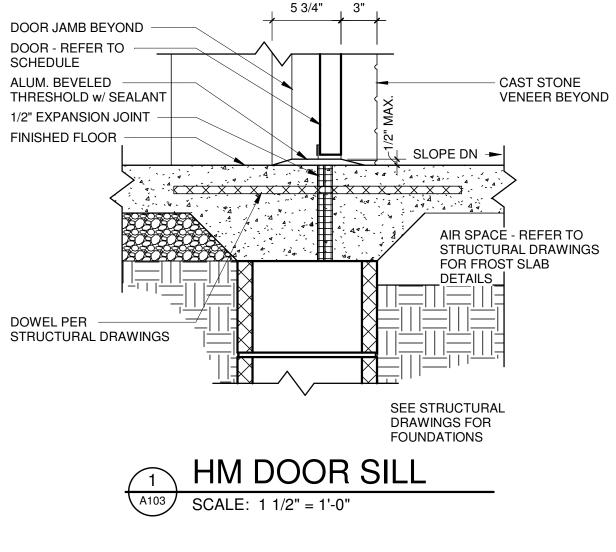
A103 SCALE: 1 1/2" = 1'-0"



HM DOOR HEAD SCALE: 1 1/2" = 1'-0"

(2)

(A103)



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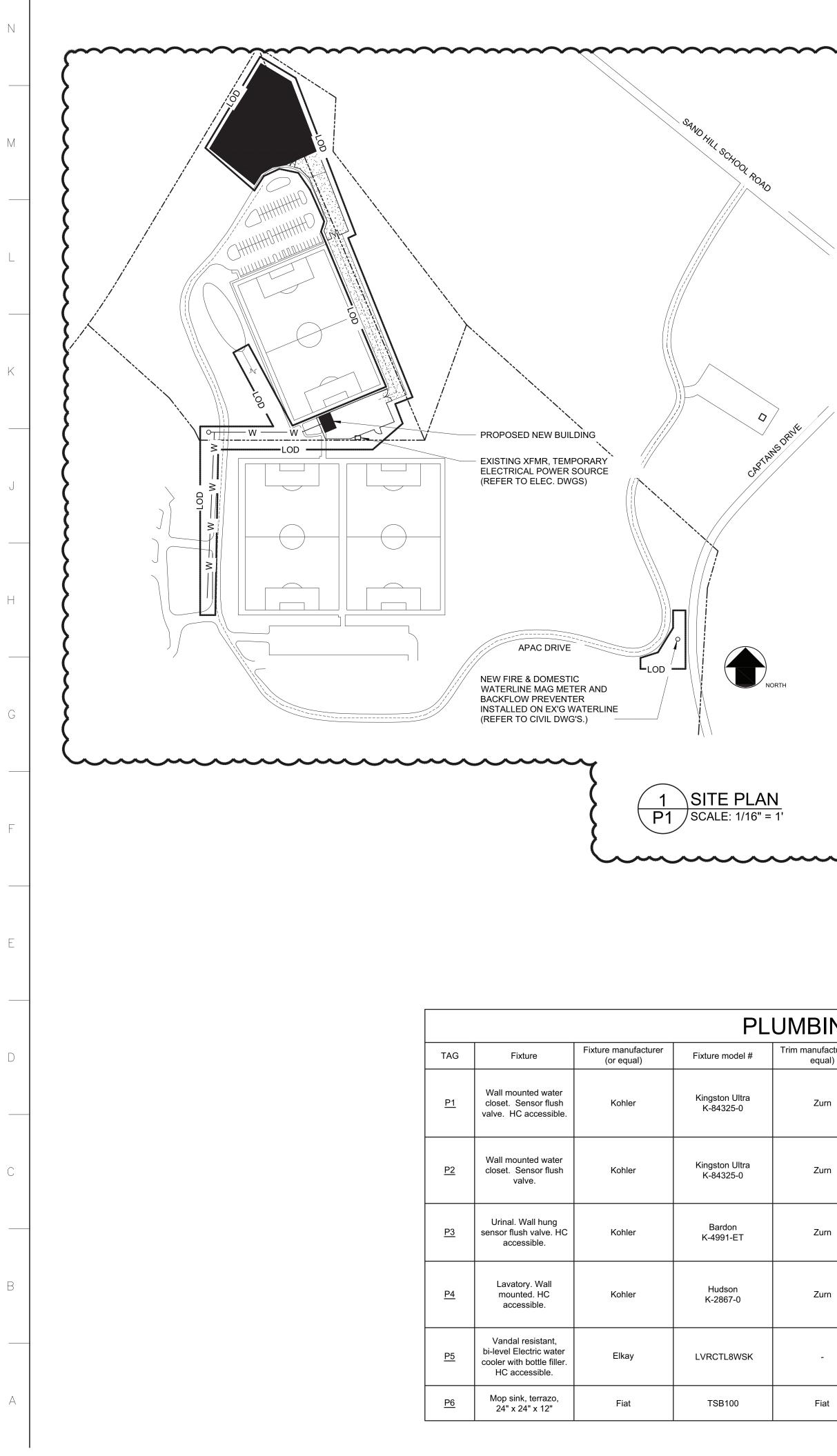
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SCHEDULES AND DETAILS

Project No: Project Manager: Drawn By:		A103
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PLUMBING	LEGEND
Cold Water Piping Below Grade	_////
Cold Water (CW)	
Sanitary Waste Piping	
Vent Piping	
Vent Thru Roof (VTR)	
Floor Cleanout (FCO)	•
Grade Cleanout (GCO)	•
Pipe Drop	——————————————————————————————————————
Water Service Riser	\mathbf{A}
Ball Valve	●
Water Hammer Arrestor (WHA)	Ŧ
Hose Bibb (HB)	Ś
Wall Hydrant (WH)	_ -

	PLUMBING EQUIPMENT SCHEDULE
TAG	EQUIPMENT
FCO	Floor cleanout: Zurn model ZN-1400 or equal. Dura-coated cast iron, polished nickel bronze top, bronze plug.
GCO	Ground cleanout: Zurn Z-1440-BP or equal. Dura-coated cast iron body with bronze plug. Set in 12"x12"x4" concrete pad flush with grade. See detail.
HB	Hose bibb: Woodford model 24 or equal. Lockable, anti-syphon, metal wheel handle, chrome finish. Provide key.
PRV	Pressure Reducing Valve: Watts Model LF25AUB-Z3 or equal. Lead free, copper silicon alloy body, replaceable polymer seat (1/2"-1"), replaceable stainless steel seat (1 ¹ / ₄ " 2"), stainless steel strainer, reinforced EPDM with PTFE wetted surface diaphragm and EPDM valve disc. (1/2"-10gpm) (3/4"-14gpm) (1"-20gpm) (1 ¹ / ₄ "-25gpm) (1 ¹ / ₂ "-32gpm) (2"-45gpm) (flows are at 15psi drop)
WHA	Water Hammer Arrestor. J.R. Smith Hydrotrol 5000 Series or equal. All stainless steel construction shock absorbers shall be installed at all solenoid, remote operated or quick closing valves and at each plumbing fixture or battery of plumbing fixtures and each plumbing fixtures are placed as the series of the

PRV	diaphragm and EPDM valve disc. (1/2"-10gpm) (3/4"-14gpm) (1"-20gpm) (1 ¹ / ₄ "-25gpm) (1 ¹ / ₂ "-32gpm) (2"-45gpm) (flows are at 15psi drop)
WHA	Water Hammer Arrestor. J.R. Smith Hydrotrol 5000 Series or equal. All stainless steel construction shock absorbers shall be installed at all solenoid, remote operated or quick closing valves and at each plumbing fixture or battery of plumbing fixtures. Install on both hot and cold water branch lines in an upright position as close as possible to the valve or valves being served. Size per manufacturer's recommendations and PDI.
WH	Non freeze wall Hydrant: Woodford model B-65 or equal. Automatic draining, anti-syphon vacuum breaker, chrome finished. Provide with extra key for every 5 wall hydrants.

-	UMBING FIXTURE SCHEDULE										
	Trim manufacturer (or equal)	Trim model #	Sanitary	Vent	Cold water	Hot water	Remarks				
	Zurn	ZEMS600AV-IS	3"	2"	1"	-	White vitreous china siphon jet assembly. White open front seat with check hinges and elongated bowl. ADA compliant, hardwired, sensor activated, metering flush valve. Provide chair carrier with floor mount. Confirm carrier dimensions are acceptable before ordering or beginning work. Install per ADA. Provide Zurn Z1202-H4 carrier and 12" all-thread bolts.				
	Zurn	ZEMS600AV-IS	3"	2"	1"	-	White vitreous china siphon jet assembly. White open front seat with check hinges and elongated bowl. Hardwired, sensor activated, flushometer. Provide chair carrier with floor mount. Confirm carrier dimensions are acceptable before ordering or beginning work. Provide Zurn Z1202-H4 carrier and 12" all-thread bolts.				
	Zurn	ZEMS600AV-IS	2"	2"	3/4"	-	White vitreous china, wall-mounted, washout assembly with flushing rim and extended sides. ADA compliant, hardwired, sensor activated, chrom plated flushometer. Install per ADA. Provide Zurn Z1222 carrier and 12" all-thread bolts.				
	Zurn	Z6913-XL	1-1/2"	1-1/2"	1/2"	-	White, wall-mounted, white vitreous china, concealed arm carrier, 4" faucet centers. ADA compliant, chrome plated brass faucet with 0.5 gpm aerator, battery powered sensor. Provide hardwired power converter (-HW6). Provide white lav-guard trap & supply cover. Install per ADA. Provide Zurn Z-1231 carrier.				
	-		1-1/2"	1-1/2"	1/2"	-	Vandal resistant, frost resistant wall mount bi-level ADA cooler with bottle filler, electronic bottle filler sensor with mechanical front and side Flexi-guard safety bubbler push button, 8 gph, non-filtered. Install per ADA requirements. 98324C - Accessory - Cane Apron for EMABF				
	Fiat	830AA	3"	2"	1/2"	-	Chrome plated faucet with vacuum breaker, wall brace, pail hook. Provide SS splash panels, mop hangar, hose and hose bracket.				

PLUMBING SPECIFICATIONS

- project. Include approved shop drawings and manufacturer's maintenance manuals.
- the Owner at the completion of the project.
- Owner
- his portion of the work. devices upstream of disconnect device.

- dimensions prior to beginning work.

12

	7	8	9	10	11

1. Shop Drawings: Provide product data for all equipment and materials. Include pertinent dimensions, materials of construction, performance characteristics, weights and factory and field wiring diagrams. 2. Operation and Maintenance Manuals: Provide 3 bound O&M Manuals at the completion of the

3. Record Drawings: Contractor shall maintain a set of drawings on the job site to record all differences between the project documents and "As-Built". Contractor shall provide a set of "As-Built" drawings to

4. Warranty: Contractor shall warranty the installation against defects for a period of one year from the date of Owner acceptance. Any defective materials or workmanship shall be replaced at no cost to the

5. Permits and Fees: Contractor shall obtain and pay for all permits, fees and inspections required under

5. Electrical Coordination: The plumbing contractor shall be responsible for providing disconnect switches for plumbing equipment not provided with factory mounted disconnect switches and the wiring from plumbing equipment to the disconect switch. All wiring and devices shall be in accordance with the NEC and electrical specifications. The electrical contractor shall be responsible for wiring and all

6. General Duty Valves: Valve pressure and temperature ratings shall be not less than indicated and as required for system pressures and temperatures. Valve shall be the same as upstream piping unless otherwise indicated. Valves in insulated piping shall have 2-inch stem extensions on gate valves with rising stem. Ball valves shall be provided with extended operating handle of non-thermal-conductive material, and protective sleeve that allows operation of valve without breaking the vapor seal or disturbing insulation. Brass or bronze ball valves shall be two-piece, full-port, brass trim, MSS SP-110, 150 psig SWP, 600 psig CWP, two piece body, forged brass, threaded or solder ends, PTFE or PTE seats, and chrome plated ball. Bronze gate valves shall be Class 125, MSS SP-80, Type 1, non-rising stem or Type 2, rising stem, with a 200psig CWP, ASTM B 62 bronze body with integral seat, solid wedge bronze disc, asbestos free packing and threaded or solder joint ends. Bronze globe valves shall be Class 125, MSS SP-80, Type 1 with a 200psig CWP, ASTM B 62 bronze body with integral seat, asbestos free packing and threaded solder joint ends.

. Piping Insulation: Flexible elastomeric insulation shall be closed-cell, sponge- or expanded-rubber materials complying with ASTM C 534, Type I for tubular materials. Mineral-fiber, preformed pipe insulation shall be Type I, 850 Deg F, mineral or glass fibers bonded with a thermosetting resin, complying with ASTM C 547, Type I, Grade A, with factory-applied ASJ or with factory-applied ASJ-SS. Install insulation continuously through non-fire rated walls and partitions. Install insulation continuously through penetrations of fire-rated walls and partitions and seal in accordance with a UL approved through penetration firestop system. Domestic cold, hot and recirculated hot water insulation shall be 1-inch thick. Insulate exposed piping including drain and water supplies under handicapped lavatories and sinks, to meet the requirements of ADA 4.19.4, ADAAG 606.5, ICC/ANSI A117.1 606.6, or GSA & DOD's ABA 606.5.requirement to "protect against contact - no sharp or abrasive surfaces"

8. Pipe Hangers and Supports: Carbon-steel pipe hangers and supports shall be MSS SP-58, Types 1 through 58, factory-fabricated components. Galvanized metallic coatings may be pregalvanized or hot dipped. Hanger rods shall be continuous-thread rod, nuts, and washer made of carbon steel. Copper pipe hangers shall be MSS SP-58, Types 1 through 58, copper-coated-steel, factory-fabricated components. Hanger rods shall be continuous-thread rod, nuts, and washer made of carbon steel. Trapeze pipe hangers shall be MSS SP-69, Type 59, shop- or field-fabricated pipe-support assembly made from structural carbon-steel shapes with MSS SP-58 carbon-steel hanger rods, nuts, saddles, and U-bolts. Thermal-hanger shield inserts for shall be heavy duty with minimum 100psig compressive strength. For trapeze or clamped systems insert and shield shall cover entire circumference of pipe. For clevis or band hanger insert and shield shall cover lower 180 degrees of pipe. Pipe positioning systems shall be IAPMO PS 42, positioning system of metal brackets, clips, and straps for positioning piping in pipe spaces; for plumbing fixtures in commercial applications. Supports for piping installed above a roof shall be B-Line BD Series with 14 gauge galvanized channel and recycled rubber base.

9. Domestic Water Piping (Metallic): Hard copper tube shall be ASTM B 88, Type L water tube, drawn temper. Soft copper tube shall be ASTM B 88, Type K water tube, annealed temper. Fittings shall be cast-copper, solder-joint fittings, ASME B16.18, pressure fittings or wrought-copper, solder-joint fittings, ASME B16.22 pressure fittings. Bronze flanges shall be ASME B16.24, Class 150, with solder-joint ends. Copper unions shall be MSS SP-123 cast-copper-alloy, hexagonal-stock body with ball-and-socket, metal-to-metal seating surfaces and solder-joint or threaded ends. Above grade water piping shall be Type L hard copper. Below grade piping shall be Type K soft copper. Piping shall be tested for leaks in accordance with Chapter 312 of the 2018 NC Plumbing Code. Domestic water piping shall be sanitized in accordance with Chapter 610 of the 2018 NC Plumbing Code.

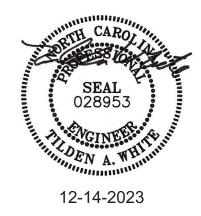
10. Water Pressure Reducing Valves: Water regulators shall meet the requirements of ASSE 1003 with a pressure rating of 150 psig an outlet pressure setting of 60 psig, bronze body and threaded end connections. Provide pressure gauge with gauge cock in valve discharge piping.

11. Water-Hammer Arresters: ASSE 1010 or PDI-WH 201, metal bellows type, sizes AA and A through F. 12. Sanitary Waste and Vent Piping: PVC pipe and fittings shall be solid-Wall PVC Pipe, ASTM D 2665. PVC socket fittings shall be ASTM D 2665, made to ASTM D 3311, drain, waste, and vent patterns and to fit Schedule 40 pipe. Waste and vent piping shall be pressure tested in accordance with the requirements of the 2018 NC Plumbing Code.

13. Below Grade Sanitary Waste, Grease Waste, Storm and Vent Piping: Hub and Spigot Cast Iron pipe and fittings shall be manufactured from gray cast iron and shall conform to ASTM A 74. All pipe and fittings shall be marked with the collective trademark of the Cast Iron Soil Pipe Institute ® and listed by NSF® International. Pipe and fittings shall be service (SV) weight. Joints shall be made using a compression gasket manufactured from an elastomer meeting the requirements of ASTM C 564. All pipe and fittings to be produced by a single manufacturer and are to be installed in accordance with manufacturer's recommendations and applicable code requirements. Waste, storm and vent piping shall be pressure tested in accordance with the requirements of the 2018 NC Plumbing Code.

14. Plumbing Fixtures: See Plumbing Fixture Schedule.

15. Installation: Materials, fixtures, equipment, accessories and installation shall comply with the requirements of the 2018 NC Plumbing Code, 2018 NC Energy Code, applicable sections of the 2018 NC Building Code and local ordinances. Equipment and materials shall be installed in compliance with manufacturer's installation recommendations and acceptable industry standards. All pipe shall be substantially supported to prevent sags. Piping shall be run parallel to walls and structure unless indicated otherwise. All water piping and other piping subject to freezing shall be run within the thermal envelope of the building unless noted otherwise. Piping subject to freezing that is noted to be install outside of the thermal envelope shall be heat traced with self limiting heat tape and insulated per the insulation specification. It is the responsibility of the contractor to field verify existing conditions and





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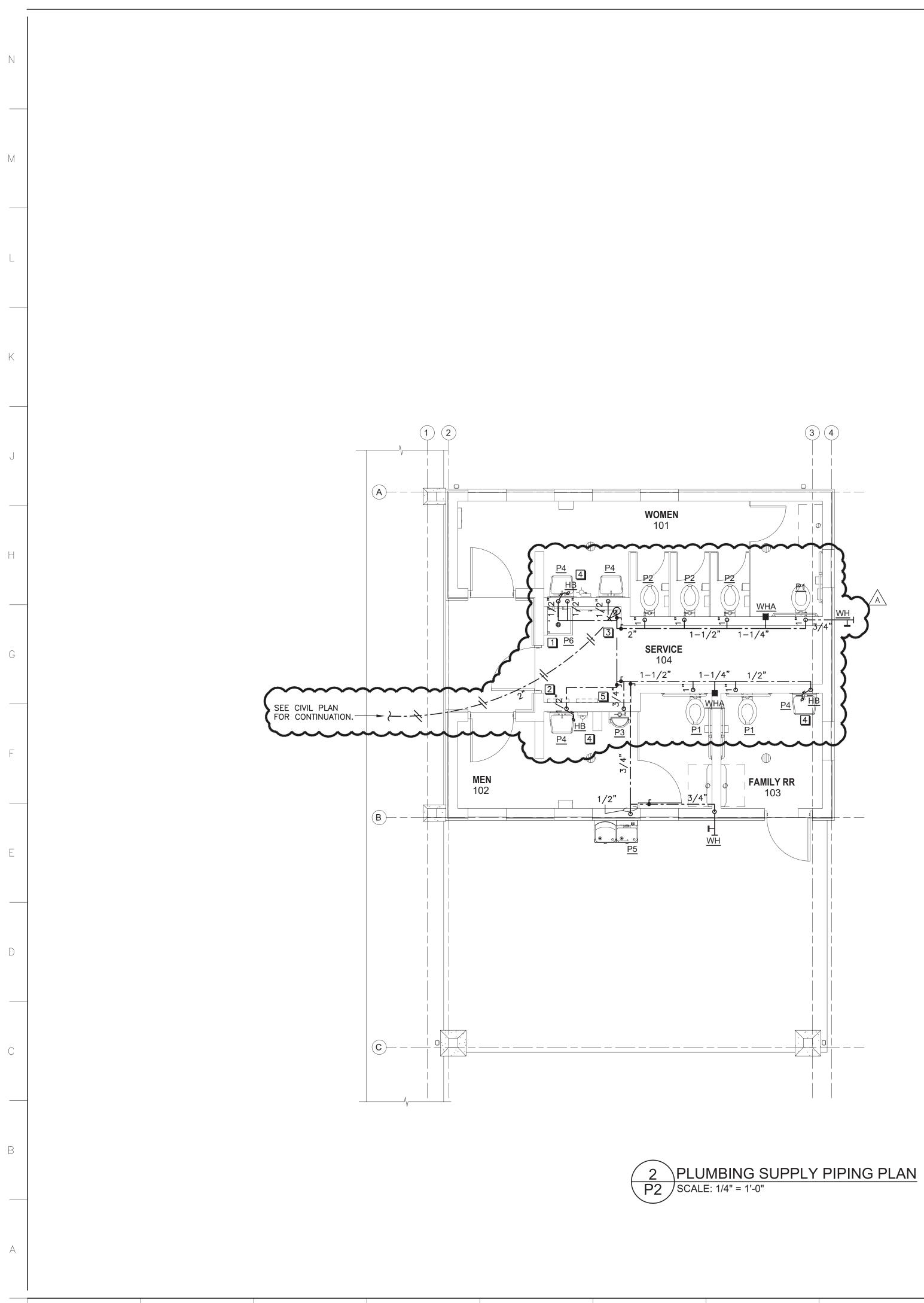
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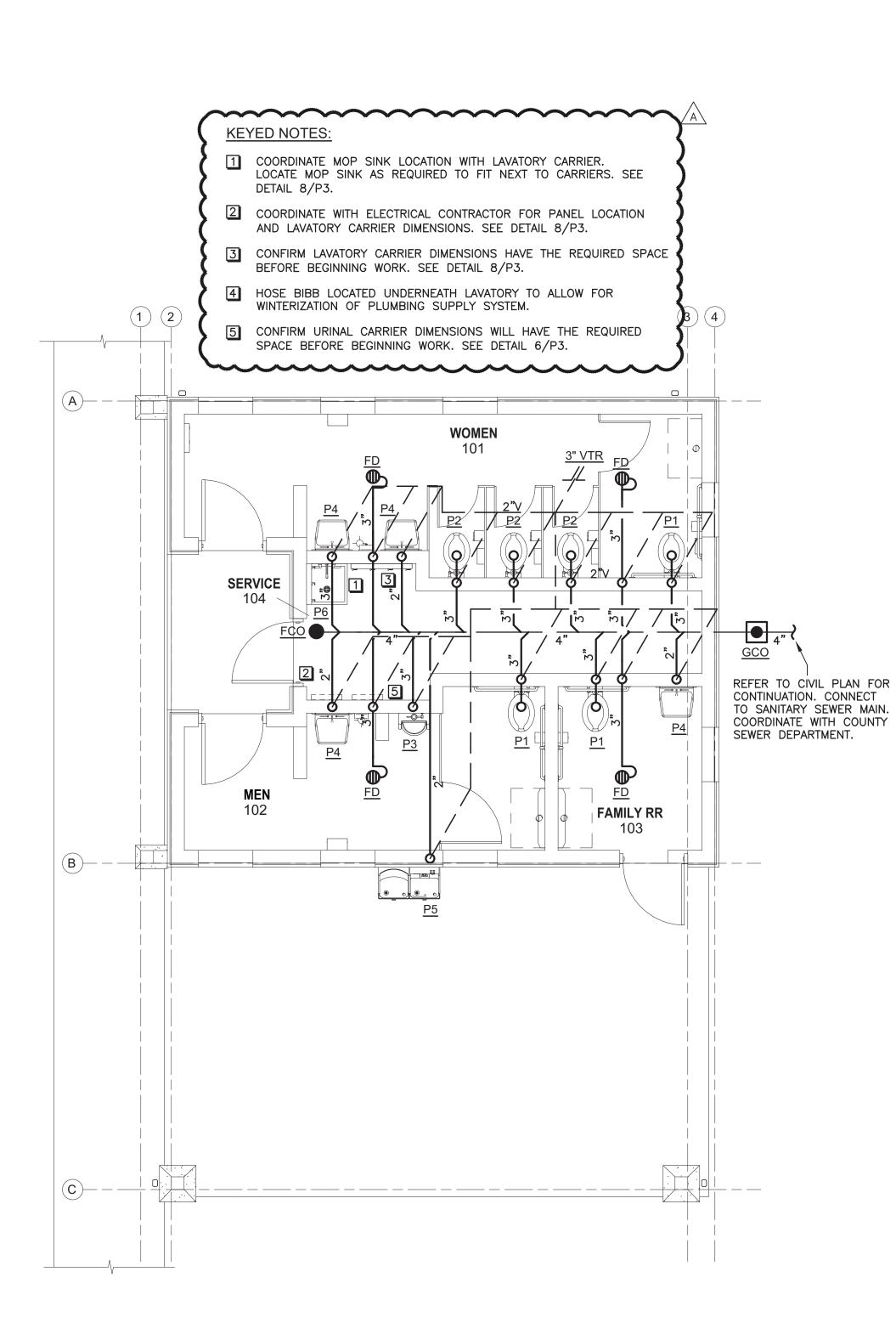
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2	12/07/2023	CORRECTION LETTER 1
3	12/14/2023	ADDENDUM A

PLUMBING NOTES & SCHEDULES

Project No: Project Manager: TWA Drawn By:



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PLUMBING SANITARY PIPING PLAN

P2 / SCALE: 1/4" = 1'-0"





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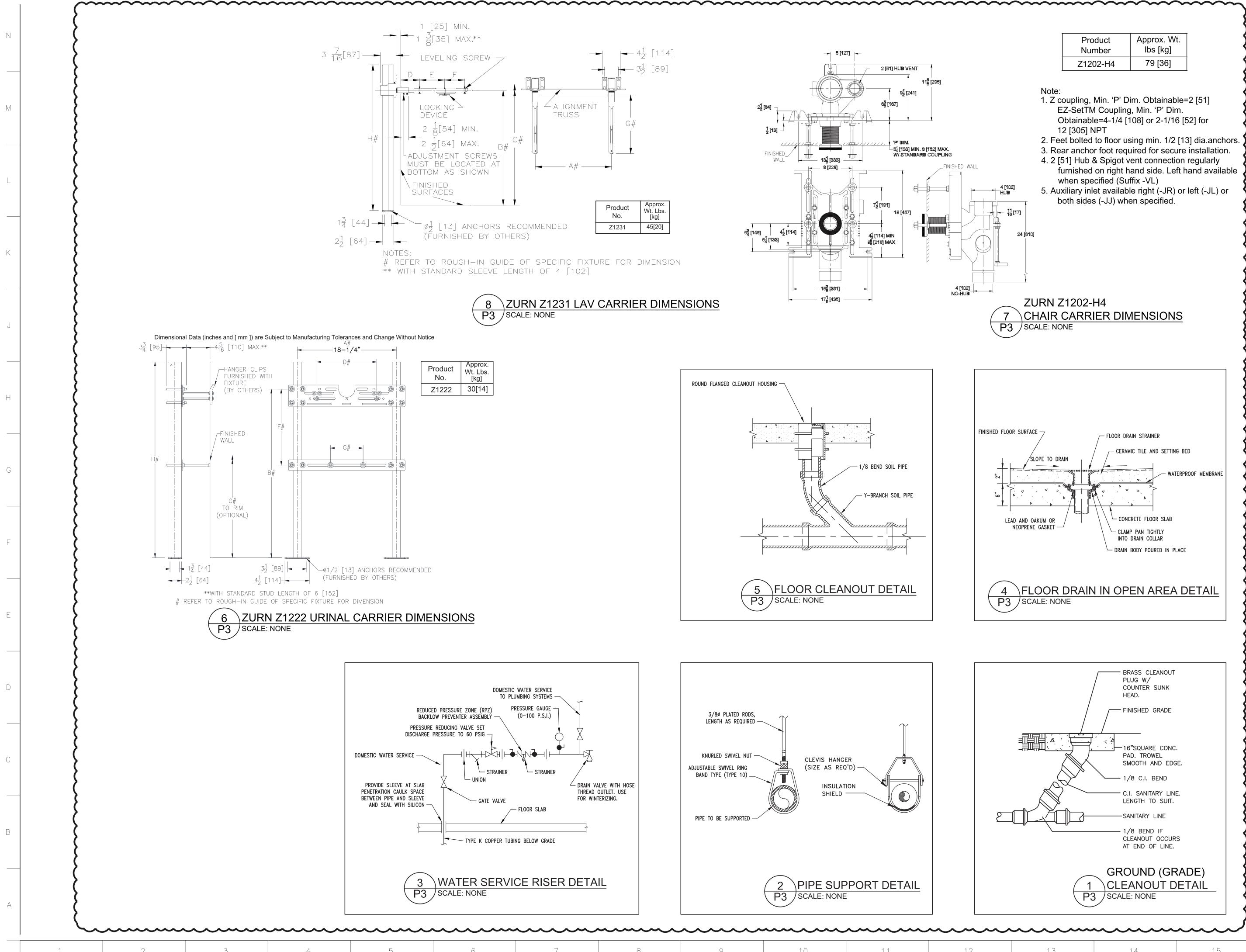
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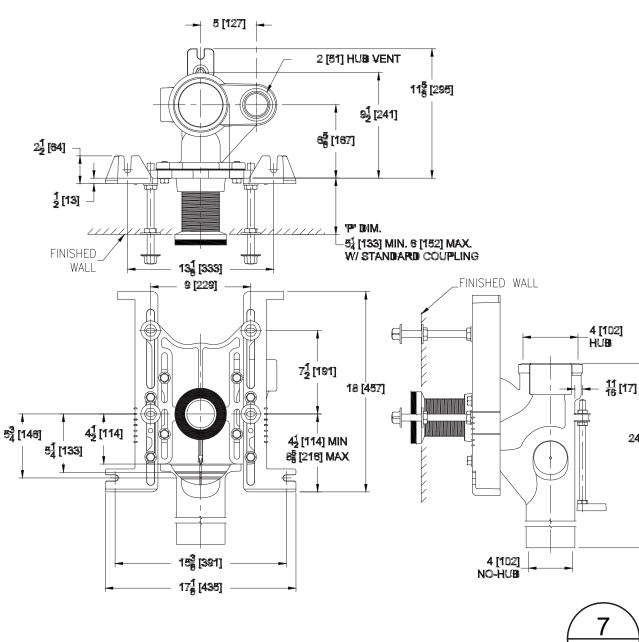
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PLUMBING PLAN

P2	Project No: Project Manager: Drawn By: TWA				
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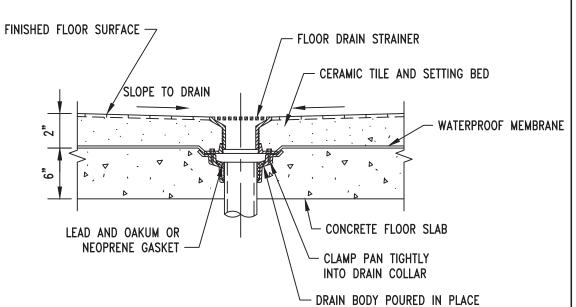




	Product	Approx. Wt.	
	Number	lbs [kg]	
	Z1202-H4	79 [36]	
			-
Note:			
	oupling, Min. 'P' D		=2 [51]
	Z-SetTM Coupling		
)btainable=4-1/4 [1	108] or 2-1/16 [5	52] for
1	2 [305] NPT		
2. Fee	et bolted to floor us	sing min. 1/2 [13	3] dia.anchors.
3. Rea	ar anchor foot requ	uired for secure	installation.
4.2[5	51] Hub & Spigot v	ent connection	regularly
- fı	urnished on right h	and side. Left h	and available
	/hen specified (Su		
	kiliary inlet availab	,	left (-JL) or

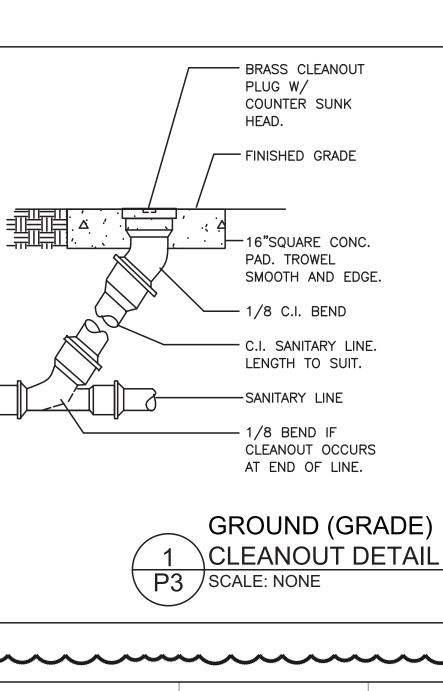
ZURN Z1202-H4 CHAIR CARRIER DIMENSIONS P3 / SCALE: NONE

both sides (-JJ) when specified.



\FLOOR DRAIN IN OPEN AREA DETAIL P3 SCALE: NONE

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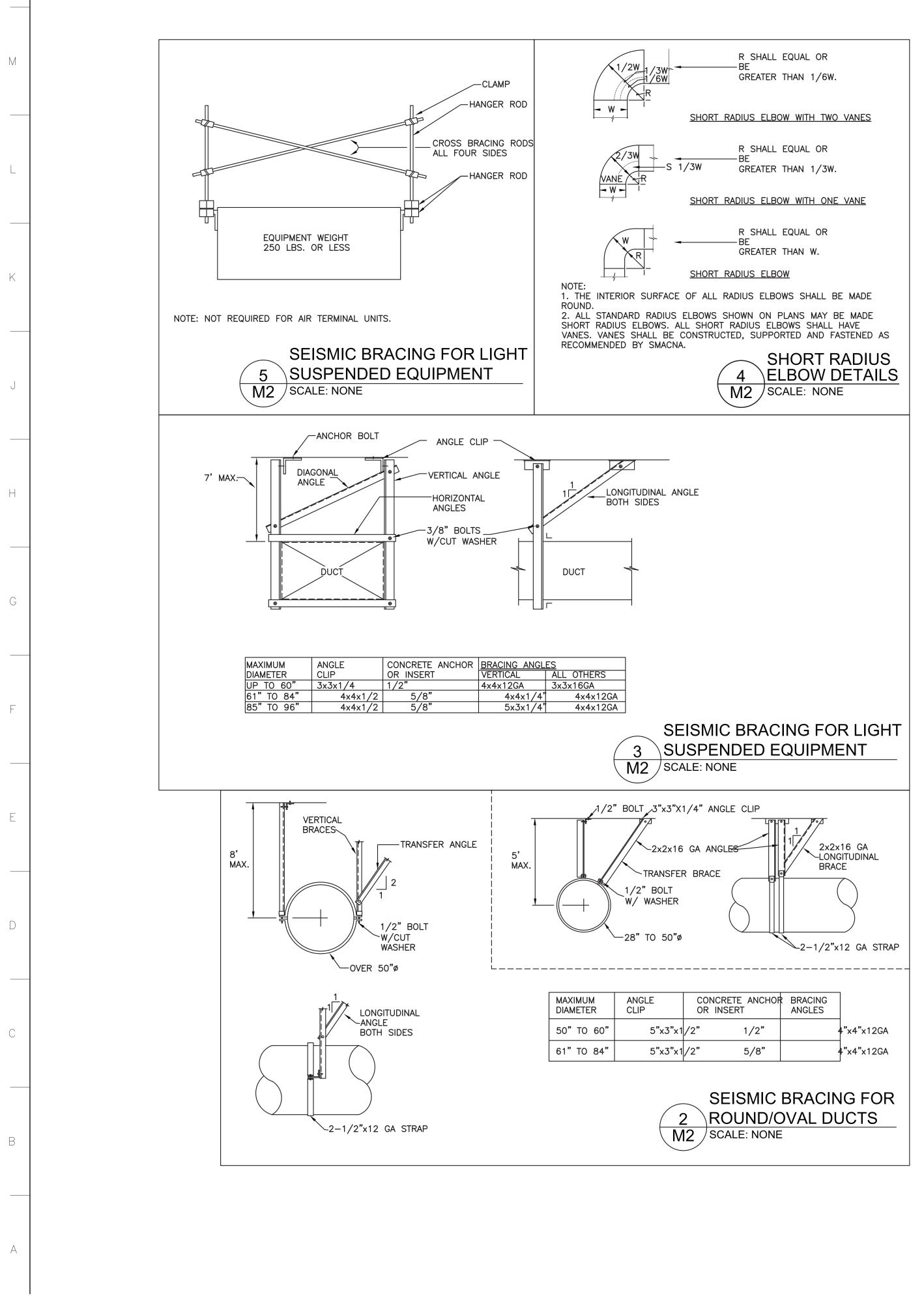
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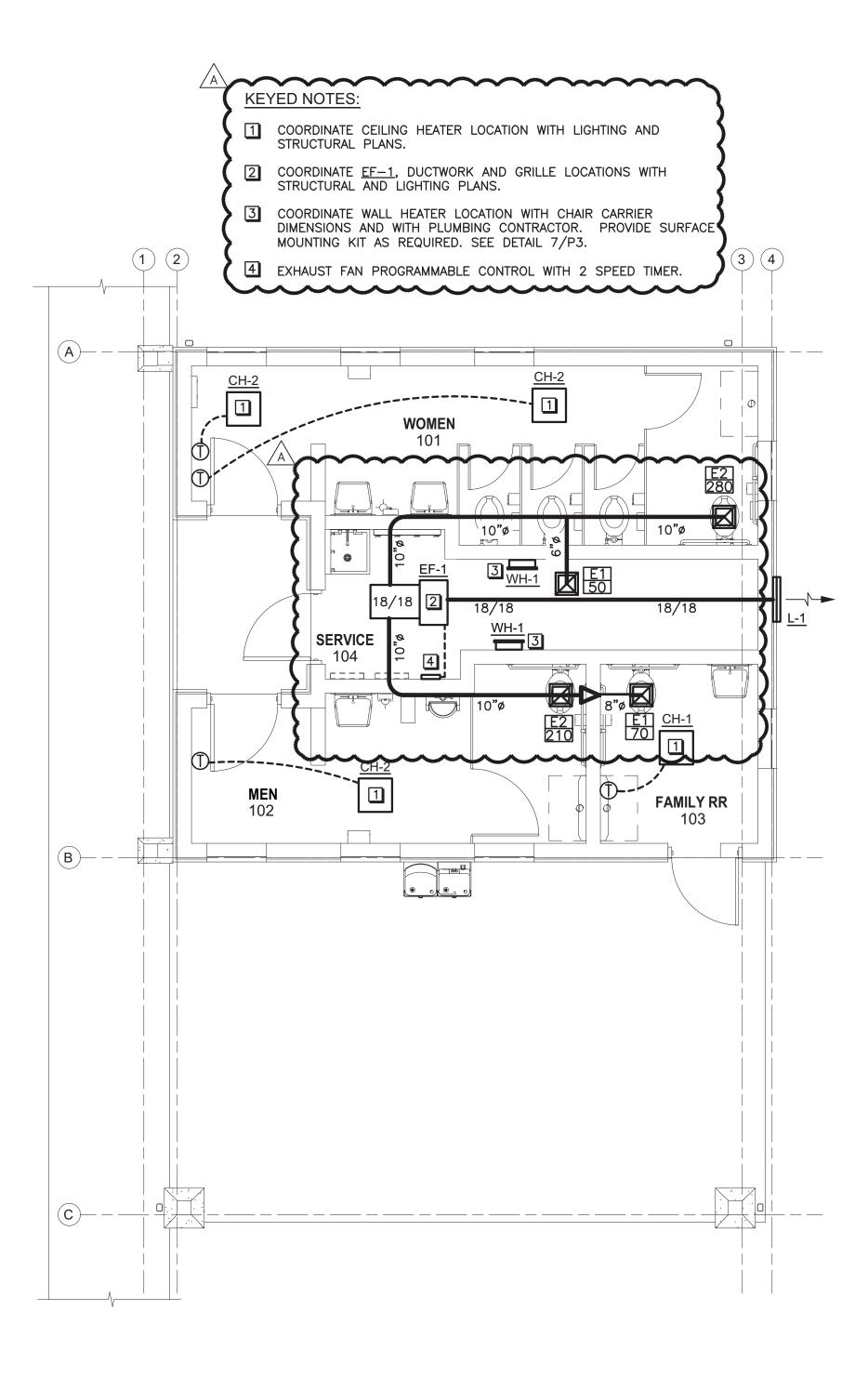
PLUMBING DETAILS

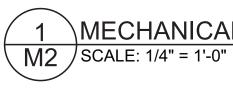
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rawn By:	TWA		



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MECHANICAL PLAN



SEAL 028953

EN A.

12-14-2023

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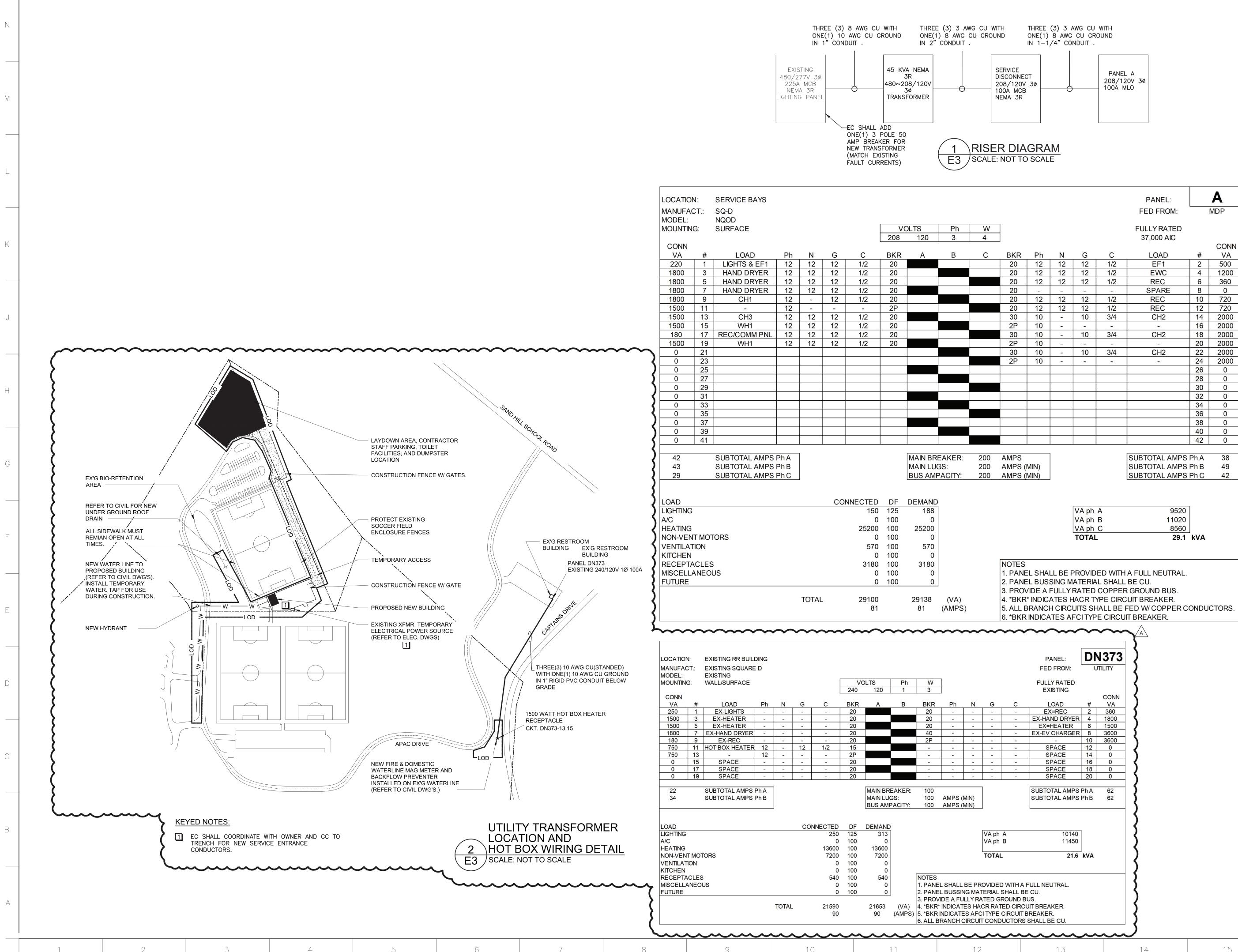
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MECHANICAL PLAN

Project No: Project Ma Drawn By:	nager:	M2







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RISER DIAGRAM & PANEL SCHEDULES

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