



VCS Project NO. 2648249

SCHOOL BOARD MEMBERS

BOARD CHAIR
BOARD VICE CHAIR
MEMBER
MEMBER
MEMBER

SUPERINTENDENT

THE STRUCTURE WORK INCLUDES CUTTING AND PATCHING, FIELD ENGINEERING, SELECTIVE DEMOLITION, PAINTING, TELESCOPIC BLEACHERS, ELECTRICAL, AND OTHER ASSOCIATED WORK.

To the best of my knowledge, these drawings and the project manual are complete and comply with the Florida Building Code.

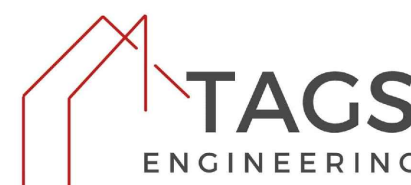
OCCUPANCY TYPE	EDUCATIONAL GROUP E
CONSTRUCTION TYPE	TYPE II-B, UNSPRINKLERED

NOT TO SCALE

ARCHITECT
GROUP 942 ARCHITECTURE, P.A.
2730 HOLIDAY WOODS DRIVE
KISSIMMEE, FLORIDA 34744
(407) 348-9424
PROJECT MANAGER: DANNY BOGDANY
danny@group942.com
www.group942.com



ELECTRICAL ENGINEER
TAGS ENGINEERING
1621 KATIE COVE
SANFORD, FLORIDA 32771
(407) 463-9568
PROJECT MANAGER: TUCCE ARSAK



REV	SHEET TITLE	DATE
<u>GENERAL</u>		
G001	COVER	12/3/2025
G002	GENERAL NOTES AND SYMBOLS	12/3/2025
G003	PROJECT SCOPE AND ARCHITECTURAL CAMPUS ORIENTATION PLAN	12/3/2025
<u>ARCHITECTURAL:</u>		
AD101	BLDG. 5: EXISTING GYMNASIUM - EXISTING AND DEMOLITION PLAN	12/3/2025
A101	BLDG. 5: EXISTING GYMNASIUM - PLAN	12/3/2025
A201	BLDG. 5: EXISTING GYMNASIUM - INTERIOR PHOTOS	12/3/2025
A501	BLEACHER SECTION	12/3/2025
<u>ELECTRICAL:</u>		
E001	ELECTRICAL ABBREVIATIONS AND GENERAL NOTES	12/3/2025
ED101	ELECTRICAL DEMOLITION FLOOR PLAN	12/3/2025
E101	ELECTRICAL FLOOR PLAN	12/3/2025
E501	ELECTRICAL SYMBOLS AND DETAILS	12/3/2025
E502	ELECTRICAL DETAILS	12/3/2025
E601	PARTIAL ELECTRICAL RISER DIAGRAM AND SCHEDULES	12/3/2025

CONSTRUCTION DOCUMENTS, 12/3/2025

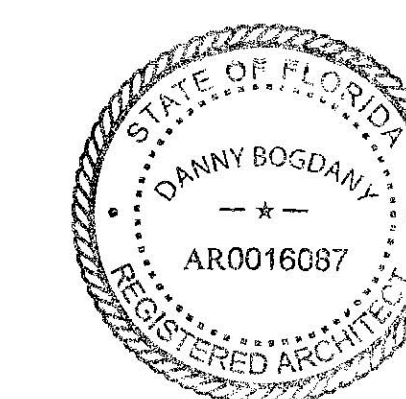


TELEPHONE: (407) 348-9424
EMAIL: HR@GROUP942.COM
LICENSE NUMBER: ARO016087

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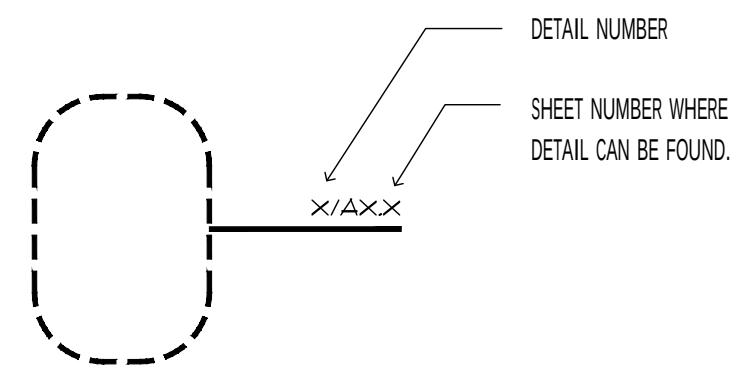
CONSULTANT:

[illegible]

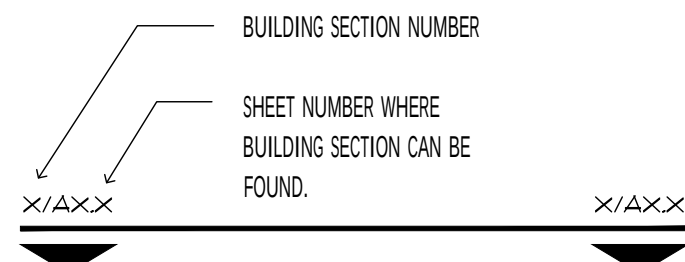
SOUTHWESTERN MIDDLE SCHOOL
REPLACE GYMNASIUM BLEACHERS
VCS Project NO. 2648249
605 W. NEW HAMPSHIRE AVENUE; DELAND, FLORIDA 32720

ARCHITENOR OF RECORD	
Architectural Group 942 Architecture, P.A.	
DESIGNED BY DWB	DRAWN BY DWB
ISSUE DATE 12/3/2025	A/E PROJECT NUMBER 25VCSa
SHEET TITLE	
COVER	
DRAWING NO.	
G001	

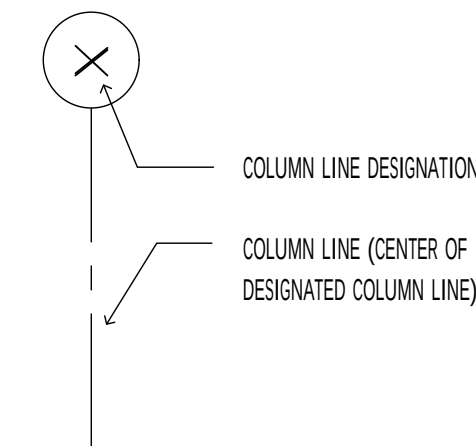
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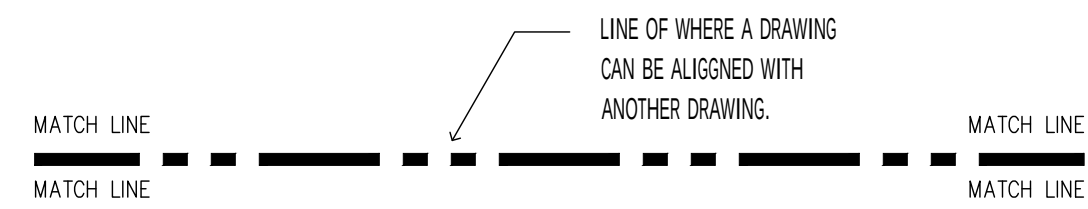
DETAIL



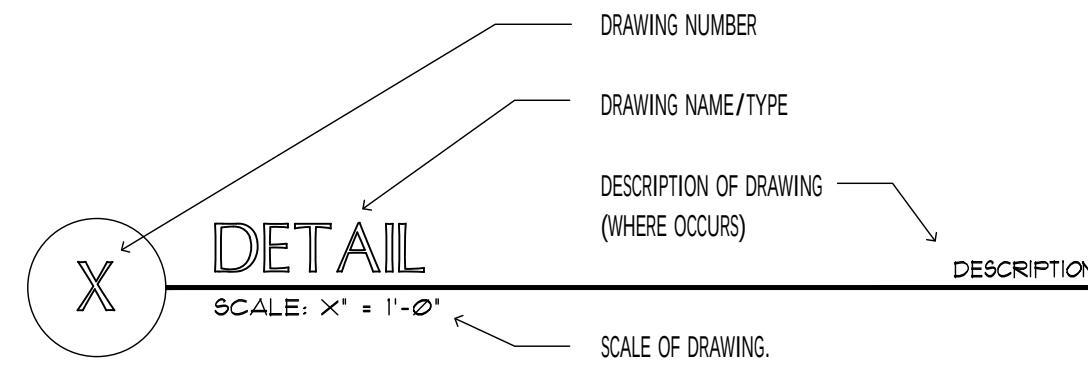
BUILDING SECTION



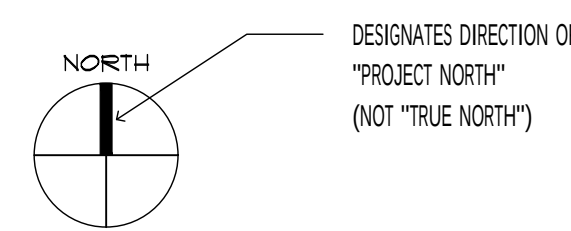
COLUMN LINE



MATCH LINE



DRAWING TAG



NORTH ARROW

GENERAL PROJECT NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH APPLICABLE CODES AND RESTRICTIONS ENFORCED BY AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR AND SUBCONTRACTORS SHALL COORDINATE THE WORK AND PHASING OF WORK DESCRIBED HEREIN WITH EXISTING BUILDING SHELL CONDITIONS.
- ALL DIMENSIONS ON FLOOR PLANS INDICATE NOMINAL WIDTH UNLESS OTHERWISE NOTED ON DRAWINGS.
- DISCREPANCIES BETWEEN PORTIONS OF THE CONTRACT DOCUMENTS ARE NOT INTENDED.
- CONTRACTOR SHALL COORDINATE ALL DRAWINGS, REFERENCE DETAILS, DIMENSIONS, NOTES AND REQUIREMENTS SHOWN ON THE ARCHITECTURAL DRAWINGS WITH ALL RELATED REQUIREMENTS SHOWN ON OTHER DISCIPLINE'S DRAWINGS.
- THE CONTRACTOR IS TO CLARIFY WITH THE ARCHITECT ANY DISCREPANCIES WHICH MAY OCCUR PRIOR TO COMMENCING ANY CONSTRUCTION.
- DIMENSIONS ARE TO FACE OF BUILDING UNO.
- DO NOT SCALE THE DRAWINGS.
- EXISTING BUILDING DOCUMENTS ARE AVAILABLE FOR INFORMATION FROM THE OWNER. THE GENERAL CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND DIMENSIONS PRIOR TO COMMENCING ANY WORK.
- WHEN ACCESS TO CONSTRUCTION IS SECURED, THE CONTRACTOR SHALL PROVIDE A LOCK BOX AT THE PRIMARY POINT OF FIRE DEPARTMENT ACCESS TO THE BUILDING AS DETERMINED BY THE FIRE DEPARTMENT.
- DO NOT OBSTRUCT STREETS, SIDEWALKS, ALLEYS OR OTHER RIGHT-OF-WAYS WITHOUT FIRST OBTAINING PROPER PERMITS.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES AND TO PROTECT THEM FROM DAMAGE. THE CONTRACTOR SHALL BEAR ALL EXPENSES OF REPAIR OR REPLACEMENT OF UTILITIES OR OTHER PROPERTY DAMAGED BY OPERATIONS IN CONJUNCTION WITH THE EXECUTION OF THE WORK. ALL FINAL CONNECTIONS FROM THE BUILDING TO EXISTING UTILITIES SHALL BE BY THIS CONTRACTOR.
- NOT USED.
- ALL DEBRIS SHALL BE REMOVED FROM THE PREMISES BY THE GENERAL CONTRACTOR AND ALL AREAS SHALL BE LEFT IN A CLEAN CONDITION AT ALL TIMES DURING CONSTRUCTION.

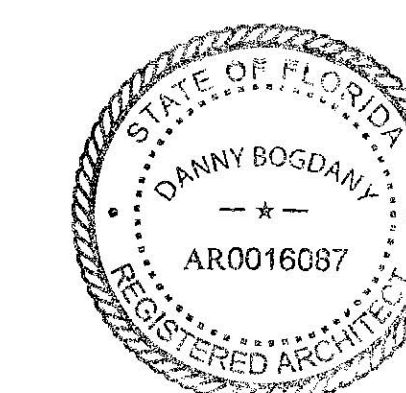
ABBREVIATIONS

A.C.T.	ACOUSTICAL CEILING TILE	B.T.M.	BOTTOM	D.I.A.	DIAMETER	E.X.H.	EXHAUST
A.D.D'L.	ADDITIONAL	B.T.M.	BUILDING	D.I.M.	DIMENSION	E.X.I.S.T.	EXISTING
A.F.F.	ABOVE FINISH FLOOR	B.W.R.	BUILT UP ROOF	D.N.	DOWN	E.X.P.A.N.S.I.O.N.	EXPANSION JOINT
A.H.J.	AUTHORITY HAVING JURISDICTION	B.L.R.	BELT	D.O.U.N.	DOWN	E.X.T.	EXTERIOR
A.L.T.	ALTERNATE	C.L.G.	CEILING	D.S.	DOWNSPOUT	F.R.P.	FIBERGLASS REINFORCED PLASTIC
A.L.U.M.	ALUMINUM	C.H.U.	CONCRETE MASONRY UNITS	D.O.U.N.	DOWNSPOUT	F.I.N.	FINISH
A.N.C.H.	ANCHOR	C.T.	CERAMIC TILE	D.O.U.N.	DOWNSPOUT	F.I.R.E.	FIRE EXTINGUISHER
A.P.P.R.O.X.	APPROXIMATE	C.O.	CLEANOUT	D.P.	DRIPWALL	F.L.O.U.R.	FLUORESCENT
A.R.C.H.	ARCHITECT	C.O.	COLUMN	D.F.	DRAWING	F.L.O.R.	FLOOR DRAIN
		C.O.	CONCRETE	E.A.C.H.	EACH	F.L.O.R.	FLUORESCENT
B.G.	BEARING	C.O.	CONSTRUCTION	E.L.E.V.	ELEVATION	F.L.O.R.	FLOOR DRAIN
B.M.	BEAM	C.J.	CONTROL JOINT	E.Q.	EQUAL	F.T.	FOOT, FEET
B.T.	BETWEEN	C.O.	CONTINUOUS	E.Q.	EQUAL	F.T.G.	FOOTING
B.L.O.C.K.	BLOCK	D.E.T.	DETAIL	E.Q.U.I.P.	EQUIPMENT	F.V.	FIELD, VERIFY
B.O.A.R.D.	BOARD			E.T.C.	ET CETERA		

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CONSULTANT:

[illegible]

SOUTHWESTERN MIDDLE SCHOOL
REPLACE GYMNASIUM BLEACHERS
VCS Project NO. 2648249

CE GYMNASIUM BLEACH
VCS Project NO. 2648249

VC Subject NO. Z046Z49
605 W. NEW HAMPSHIRE AVENUE, DELAND, FLORIDA 32720

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Architect
Group 942 Architecture, P.A.

DESIGNED BY
DWB

DRAWN BY
DWB

ISSUE DATE

AE PROJECT NUMBER	
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12/3/2

25VCSa

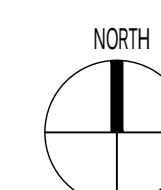
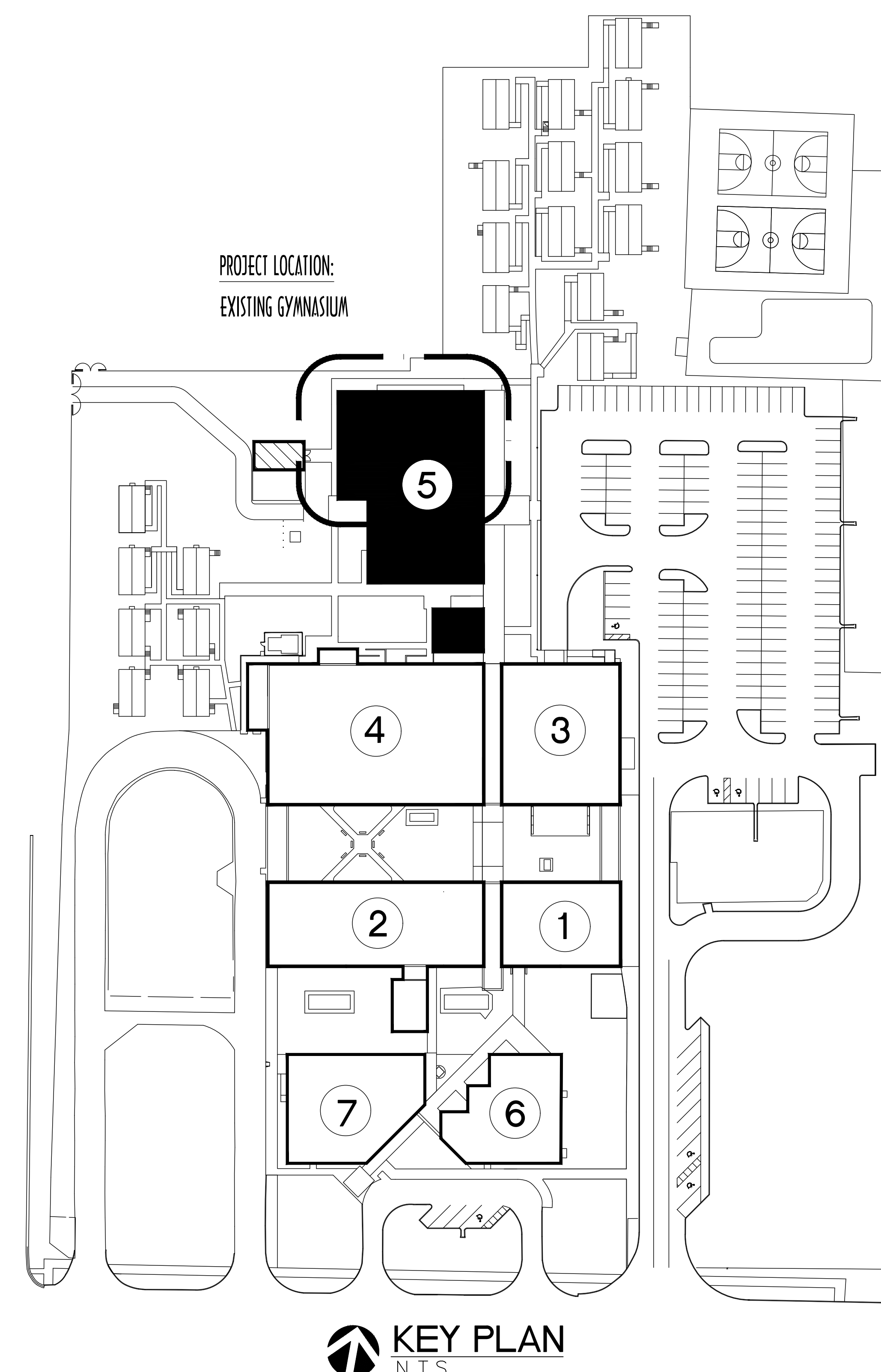
PROJECT SCOPE AND
ARCHITECTURAL CAMPUS
ORIENTATION PLAN

COATING M

G003

PROJECT SCOPE:

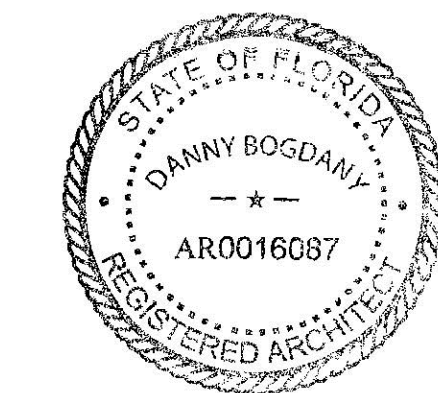
PROJECT INCLUDES REPLACEMENT OF THE EXISTING TELESCOPING BLEACHERS IN THE EXISTING GYMNASIUM.



1

ARCHITECTURAL CAMPUS ORIENTATION PLAN

SCALE: 1/64" = 1'-0"



REVISIONS

DOCUMENT HISTORY

DESCRIPTION

NO. DATE

1

2

3

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5

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SOUTHWESTERN MIDDLE SCHOOL
REPLACE GYMNASIUM BLEACHERS
VCS Project NO. 2648249

605 W. NEW HAMPSHIRE AVENUE, DELAND, FLORIDA 32720

Architect
Group 942 Architecture, P.A.

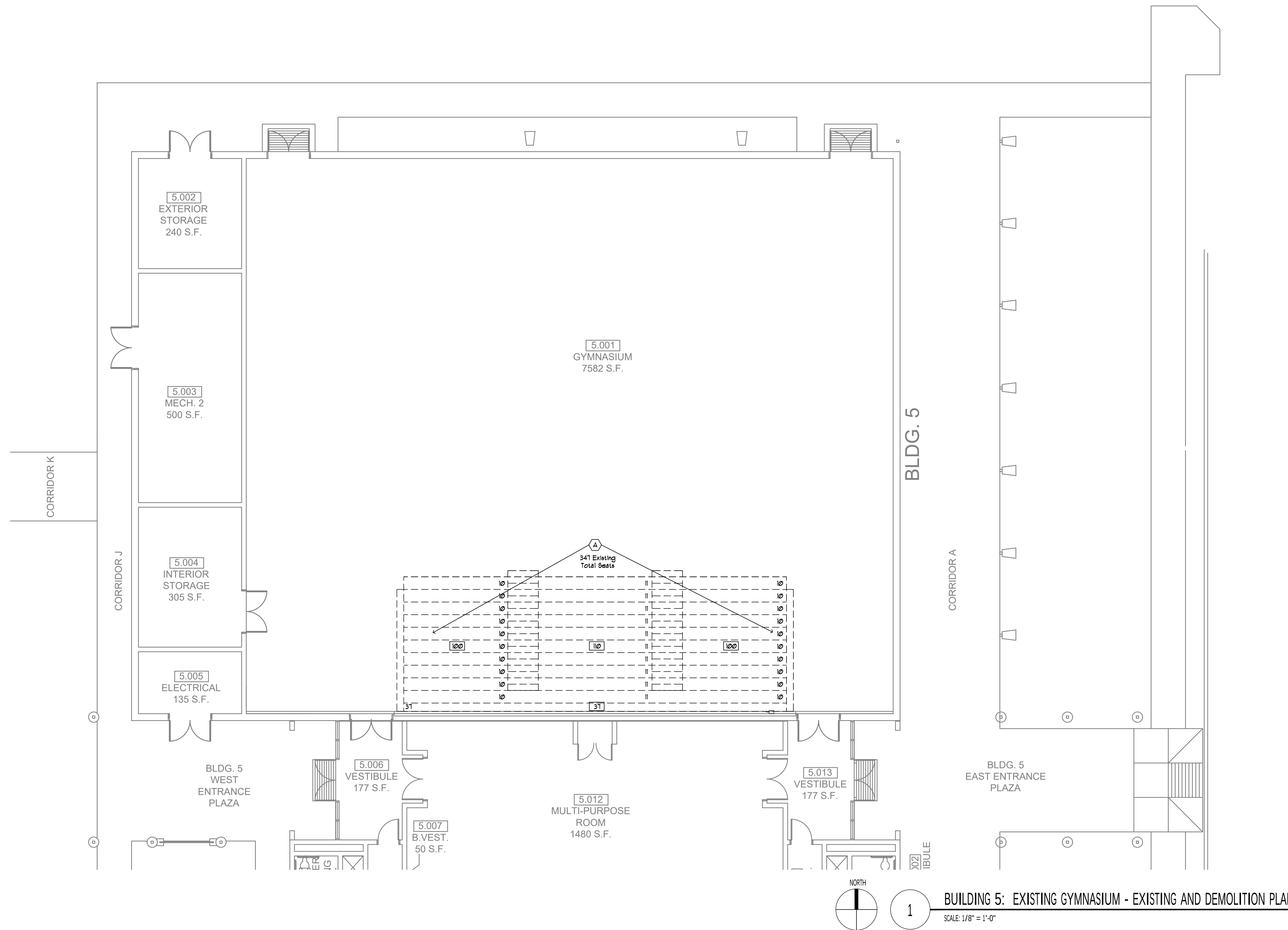
DESIGNED BY
DWB

ISSUE DATE
12/3/2025

AE PROJECT NUMBER
25VCSa

SHEET TITLE
BLDG. 5: EXISTING
GYMNASIUM
EXISTING AND DEMOLITION
PLAN

DRAWING NO.
AD101



Demolition Notes:

General Notes:

- BIDDERS SHALL REVIEW THE EXISTING PLANS, AVAILABLE FOR REVIEW AS NOTED IN THE ADVERTISEMENT FOR BIDS, FOR ANTICIPATED EXISTING CONDITIONS. Bidders shall review this information as a Condition of Bidding and Coordinate all work accordingly.
- Refer to the Project Manual for Selective Demolition, Cutting & Patching, and Other Project Requirements.
- Coordinate Existing Conditions with the Work. Verify all Dimensions prior to Submitting Shop Drawings and Fabrication of any New Construction.
- See Also Electrical Drawings and Specifications for Additional Requirements.
- Shaded areas indicate Existing Building Elements and are shown for reference only.

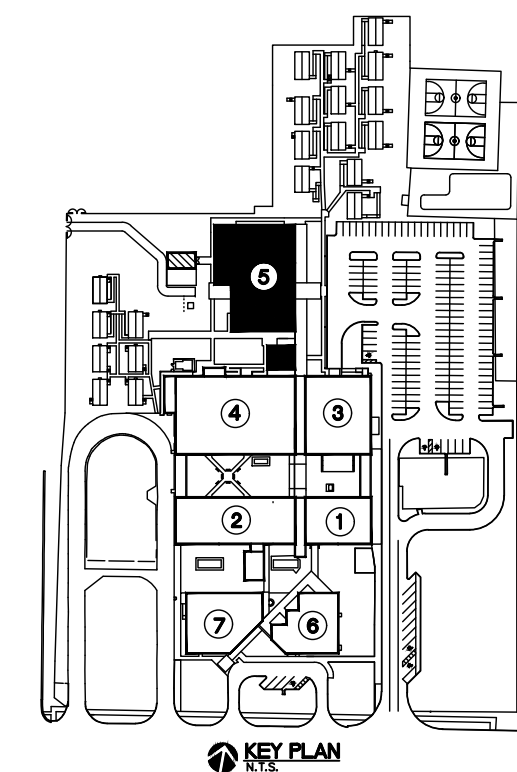
Keyed Notes:

- THE FOLLOWING IS A LIST OF KEYED NOTES APPLICABLE TO THE PROJECT. SEE PLANS FOR THE AREAS WHERE KEYED NOTES APPLY.
- (A) Carefully Remove Existing Telescoping Bleacher Assemblies in their Entirety. Properly Dispose of all Components.

Legend:

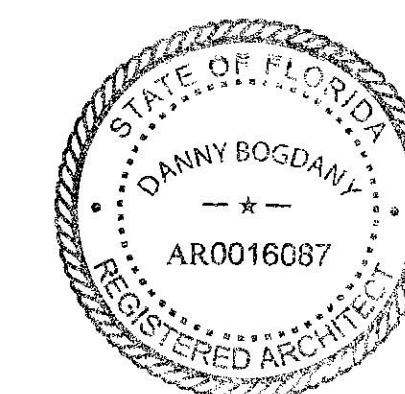
Existing Construction to remain
shown shaded - For Information
Only - Field Verify All
Conditions.

Existing Construction to be
Carefully Removed - Field
Verify All Conditions.



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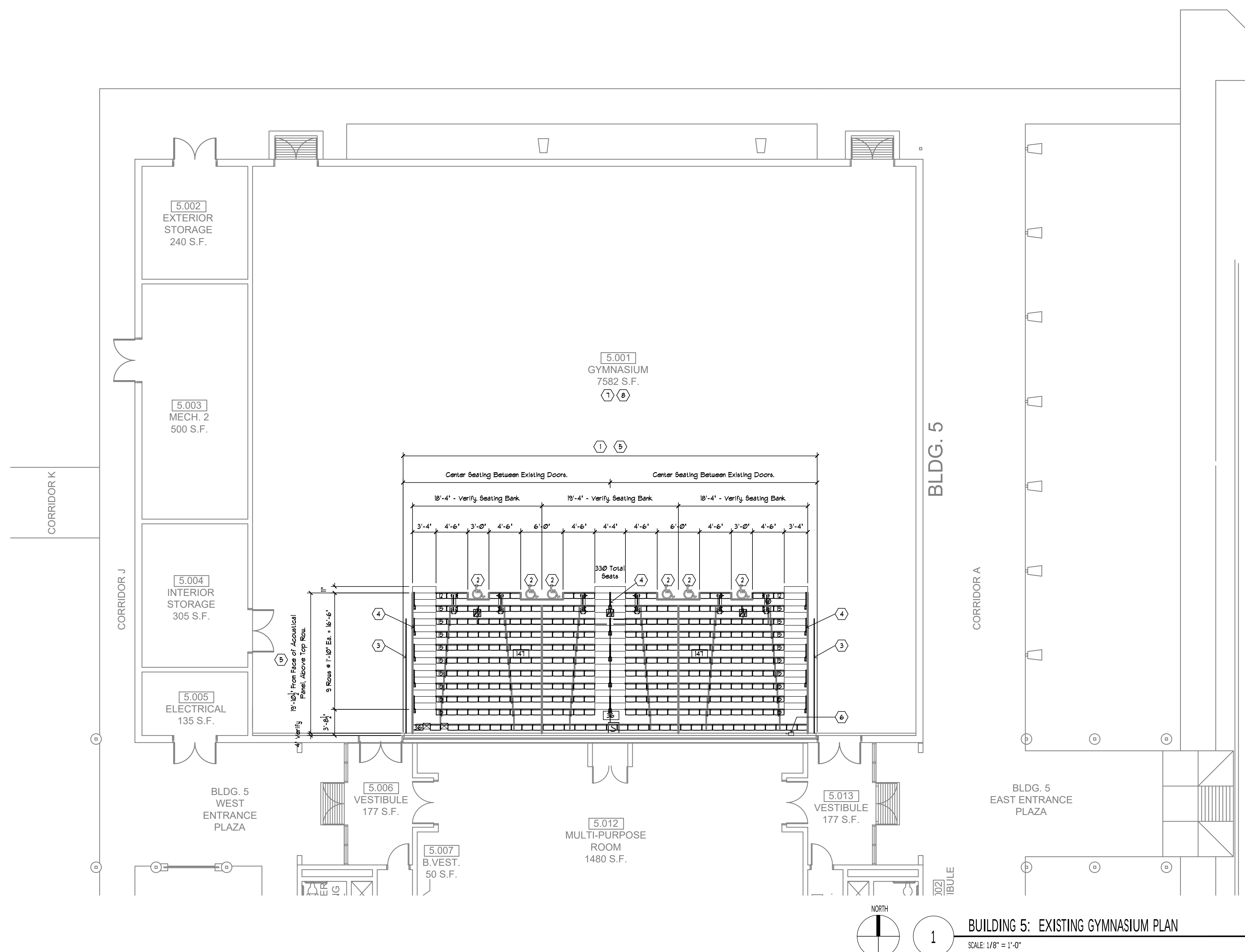
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SOUTHWESTERN MIDDLE SCHOOL
REPLACE GYMNASIUM BLEACHERS
VCS Project NO. 2648249
605 W. NEW HAMPSHIRE AVENUE, DELAND, FLORIDA 32720

605 W. NEW HAMPSHIRE AVENUE, DELAND, FLORIDA 32720

ARCHENGR OF RE

ARCHITECT Group 942 Architecture, P.A.	
DESIGNED BY DWB	DRAWN BY DWB
ISSUE DATE 12/3/2025	AE PROJECT NUMBER 25VCSa
SHEET TITLE BLDG. 5: EXISTING GYMNASIUM PLAN	
DRAWING NO. A101	



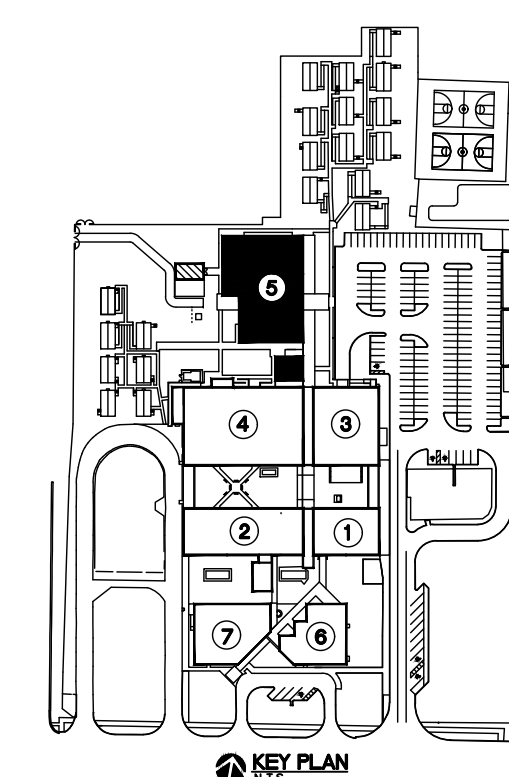
Keyed Notes:

THE FOLLOWING IS A LIST

- | | |
|---|--|
| <p>THE FOLLOWING IS A LIST OF KEY NOTES APPLICABLE TO THE PROJECT. SEE PLANS FOR THE AREAS WHERE KEYED NOTES APPLY.</p> | <p>1. Paint All Match Lines No. 5001 Walls from Finished Floor to 9" A.F.F.</p> |
| <p>1. Install New Horizontal Telescoping Blenders.</p> | <p>7. Paint Existing Surfaces to receive new paint.</p> |
| <p>2. Typical Handicapped Accessible Stairs, Provide International Symbol of Accessibility on Blenders • Usechairs Space And/or Clearing.</p> | <p>8. Provide Two-Coat Cold-Primered Blisters Epoxy Paint Semi-Gloss, or more coats as needed for coverage without voiding.</p> |
| <p>3. Self-Telescoping/Necking Gullralls • Ends of Blenders.</p> | <p>9. Paint Color for Walls to Match Existing.</p> |
| <p>4. Self-Telescoping/Necking Handrails Asides.</p> | <p>10. Paint Doors and Door Frames, Both Sides. Doors and Door Frames to Match the Existing Door Color. Do not paint Kick-Plates.</p> |
| <p>5. Coordinate Telescoping Blender Configuration and Layout of Existing Structural Steel, Above the Top of the Rail. Verify Field Clearances and Conditions Prior to Installation of Shop Drawings, Submittals and Fabrication of Blenders.</p> | <p>11. Provide Field Mock-Up to demonstrate Paint Colors and Matching for Approval by Owner.</p> |
| <p>6. Existing Telescoping Blender Power Disconnect. Verify Location and Coordinate w/ Telescoping Blenders. See Blenders.</p> | <p>12. Paint Walls. After the Existing Blenders have been removed and Before the New Blenders are installed.</p> |
| <p></p> | <p>13. Patch all damaged walls in painted areas prior to painting.</p> |
| <p></p> | <p>14. Existing Wall Pads to Remain in place.</p> |
| <p></p> | <p>15. Submit and Aduit for Approval of Telescoping Blenders.</p> |
| <p></p> | <p>16. Project Manual for additional Painting requirements.</p> |
| <p>6. Existing Telescoping Blender Power Disconnect. Verify Location and Coordinate w/ Telescoping Blenders. See Blenders.</p> | <p>17. ALTERNATE NO. 1: Strip and Replace Existing of Continuous Roor Floor. Drump and Replace Under Existing Continuous Roor Strip Support Angle, North & South walls Only. See Blenders.</p> |

Existing Construction to remain
shown shaded - For Information
Only - Field Verify All
Conditions.

New Construction



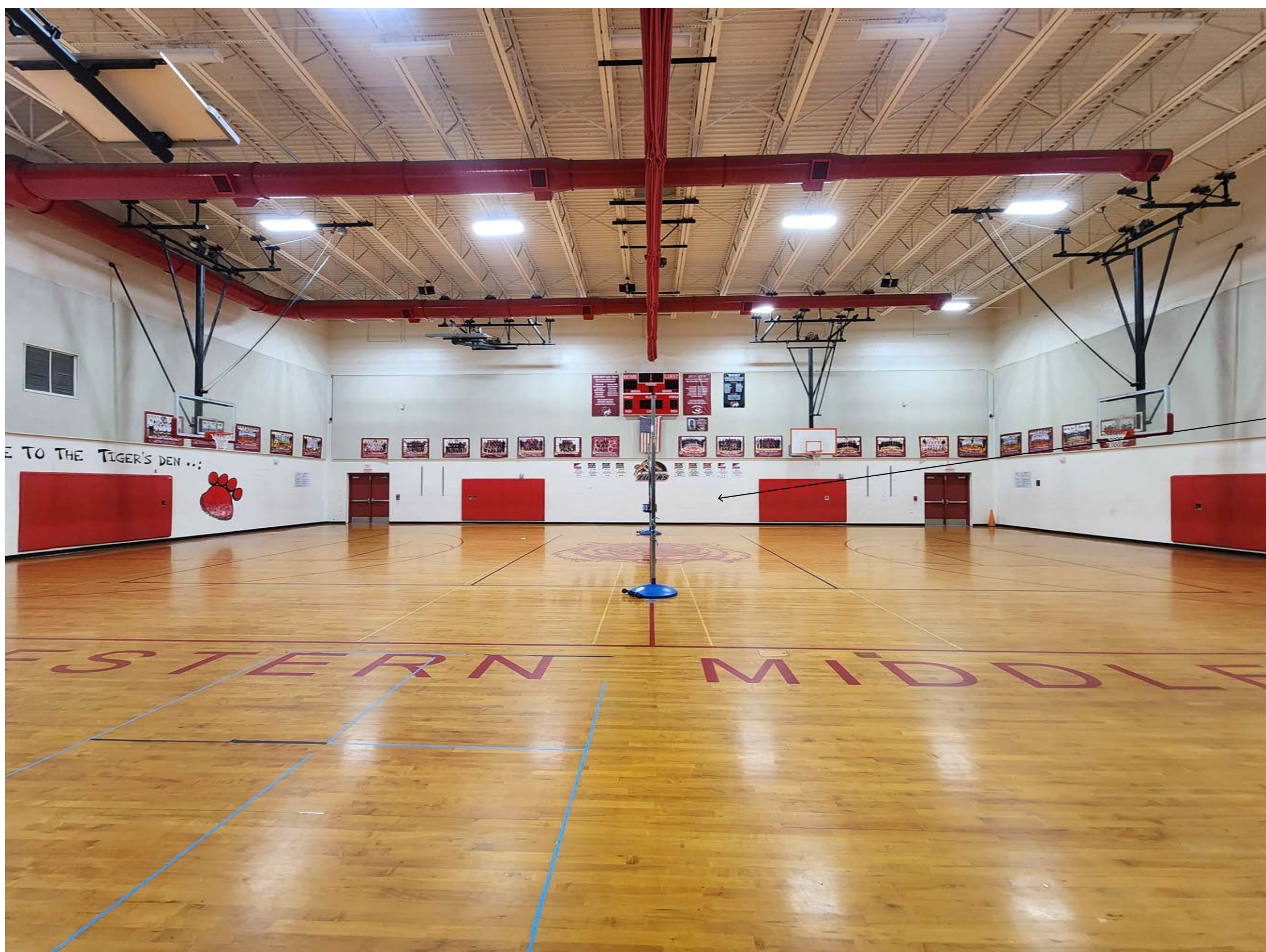


4 BUILDING 5: EXISTING GYMNASIUM EAST WALL
NO SCALE - FOR REFERENCE ONLY. FIELD VERIFY ALL CONDITIONS



3 BUILDING 5: EXISTING GYMNASIUM WEST WALL
NO SCALE - FOR REFERENCE ONLY. FIELD VERIFY ALL CONDITIONS

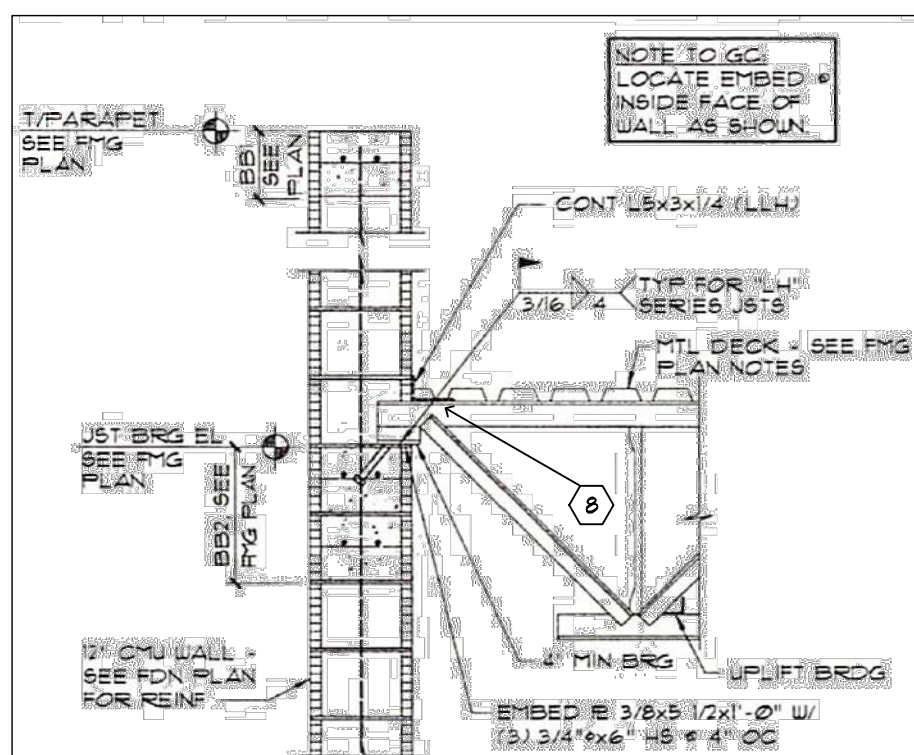
NOTE: UNDERSIDE OF EXISTING ACOUSTICAL WALL PANELS ARE AT EL. 9'-4" A.F.F.



2 BUILDING 5: EXISTING GYMNASIUM NORTH WALL
NO SCALE - FOR REFERENCE ONLY. FIELD VERIFY ALL CONDITIONS



1 BUILDING 5: EXISTING GYMNASIUM SOUTH WALL
NO SCALE - FOR REFERENCE ONLY. FIELD VERIFY ALL CONDITIONS



5 BUILDING 5: ALTERNATE NO. 1
NO SCALE - FOR REFERENCE ONLY. FIELD VERIFY ALL CONDITIONS

Renovation Notes:

General Notes:

- BIDDERS SHALL REVIEW THE EXISTING PLANS, AVAILABLE FOR REVIEW AS NOTED IN THE ADVERTISEMENT FOR BIDS FOR ANTICIPATED EXISTING CONDITIONS. Bidders shall review the information as a condition of bidding and coordinate all work accordingly.
- Refer to the Project Manual for Selective Demolition, Cutting & Patching, and Other Project Requirements.
- Coordinate Existing Conditions with the Work. Verify all Dimensions prior to Submitting Shop Drawings and Fabrication of any New Construction.
- See Also Electrical Drawings and Specifications for Additional Requirements.
- Shaded areas indicate Existing Building Elements and are shown for reference only.
- All Dimensions are to Face of Concrete Block, Unless Noted Otherwise.
- TOTAL NUMBER OF SEATS IN TELESCOPING BLEACHERS = 330 (18" PER PERSON).
- PER 2013 FBC, ACCESSIBILITY: 8TH EDITION, TABLE 211.2 - SEATING CAPACITY: 6 WHEELCHAIR SPACES ARE REQUIRED. 6 WHEELCHAIR SPACES PROVIDED.

Keyed Notes:

THE FOLLOWING IS A LIST OF KEYED NOTES APPLICABLE TO THE PROJECT. SEE PLANS FOR THE AREAS WHERE KEYED NOTES APPLY.

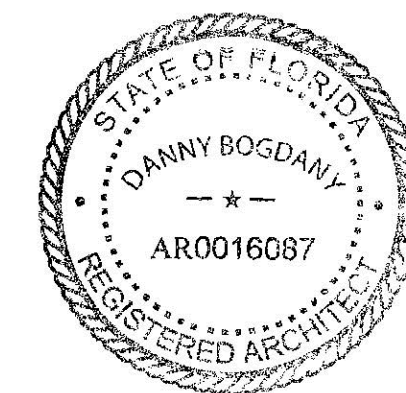
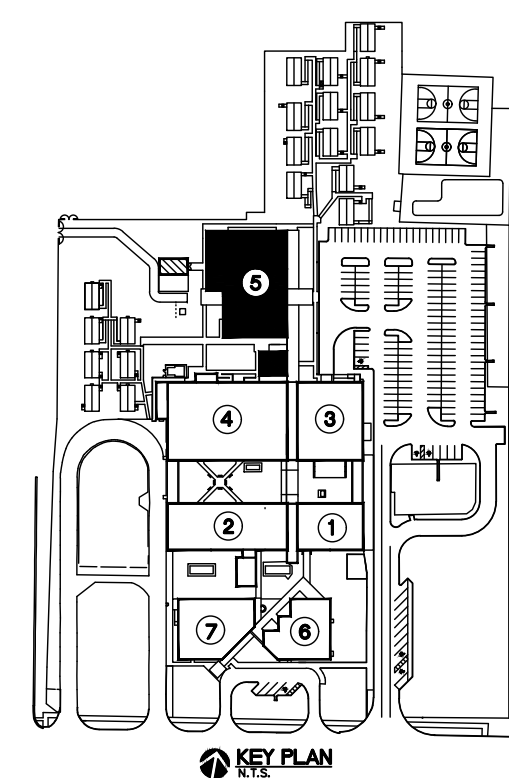
1. Install New Motorized Telescoping Bleachers.
2. Typical Handicapped Accessible Seating. Provide International Symbol of Accessibility on Bleachers. * Wheelchair Spaces AND Companion Seating.
3. Self-Telescoping Nesting Guardrails. * Ends of Bleachers.
4. Self-Telescoping Nesting Handrails. Aisles.
5. Coordinate Telescoping Bleacher Configuration and Layout w/ Existing Acoustical Sound Panels located Just Above the Top Row. Field Verify Clearances and Conditions Prior to Preparation of Shop Drawings, Submittals and Fabrication of Bleachers.
6. Existing Telescoping Bleacher Power Disconnect. Verify Location and Coordinate w/ Telescoping Bleachers. See Electrical.

1. Paint all Gymnasium Room No. 5-201 Walls from Finished Floor to 8'-4" A.F.F.
1.1. Prep Existing Surfaces to receive new paint.
1.2. Provide Two-Coats Pre-Catalyzed Waterborne Epoxy Paint, Semi-Gloss, or more coats as needed for coverage without Holidays.
1.3. Paint Color for Walls to Match Existing.
1.4. Paint Doors and Door Frames. Both Sides. Door and Door Frame Color to Match the Existing Door Color. Do not paint Kick-Plates.
1.5. Provide Field Mock-up to demonstrate Paint Colors and Finishing for Approval by Owner.
1.6. Paint Walls After the Existing Bleachers have been removed and Before the New Bleachers are Installed.
1.7. Patch all damaged walls in painted areas prior to painting walls.
1.8. Existing Ball Poles to Remain in place.
1.9. See sheet A201 for Photos of the Existing Gymnasium.
1.10. See Project Manual for additional Painting requirements.
6. ALTERNATE NO. 1. Strip and Repaint Underside of Existing Continuous Roof Deck Support Angle North & South Walls Only. See Detail 5-A(2).

Legend:

Existing Construction to remain shown shaded - For Information Only - Field Verify All Conditions.

New Construction



REVISIONS

DOCUMENT HISTORY

DESCRIPTION

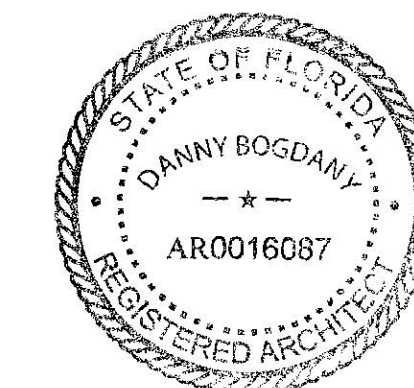
NO.

DATE

DESCRIPTION

SOUTHWESTERN MIDDLE SCHOOL
REPLACE GYMNASIUM BLEACHERS
VCS Project NO. 2648249

605 W. NEW HAMPSHIRE AVENUE, DELAND, FLORIDA 32720



REVISIONS

DOCUMENT HISTORY
NO. DATE DESCRIPTION

SOUTHWESTERN MIDDLE SCHOOL
REPLACE GYMNASIUM BLEACHERS
VCS Project NO. 2648249

605 W. NEW HAMPSHIRE AVENUE, DELAND, FLORIDA 32720

Architect
Group 942 Architecture, P.A.

DESIGNED BY
DWB

ISSUE DATE
12/3/2025

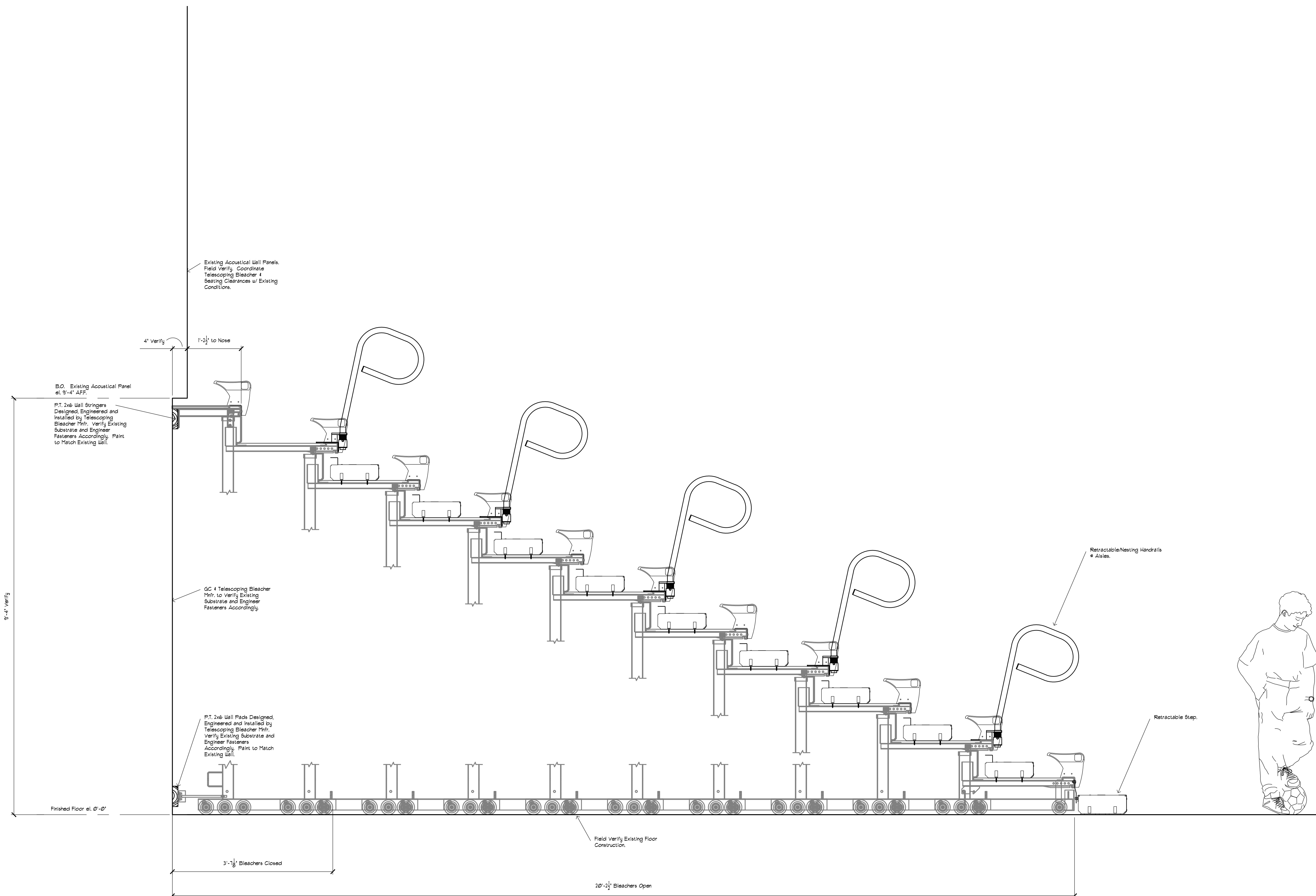
AE PROJECT NUMBER
25VCSa

SHEET TITLE

BLEACHER SECTION

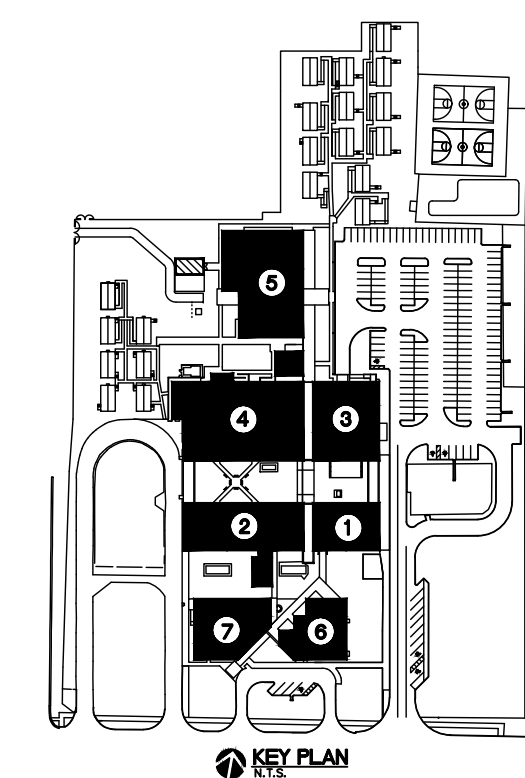
DRAWING NO.

A501



1 SECTION
SCALE: 1" = 1'-0"

TYPICAL TELESCOPING BLEACHER



ELECTRICAL GENERAL NOTES

I. GENERAL REQUIREMENTS – DIVISION 26 ELECTRICAL

A. PROVIDE ALL LABOR, MATERIALS AND EQUIPMENT FOR A COMPLETE AND PROPERLY OPERATING ELECTRICAL SYSTEM. CONFORM TO THE REQUIREMENT OF ALL GOVERNING CODES AND STANDARDS, INCLUDING:

- FLORIDA FIRE PREVENTION CODE, 8TH EDITION 2023.
- FLORIDA BUILDING CODE, 8TH EDITION 2023.
- FLORIDA BUILDING CODE – ENERGY CONSERVATION, 8TH EDITION 2023.
- NFPA 70–2020 EDITION, NATIONAL ELECTRIC CODE.
- NFPA 72–2019 EDITION, NATIONAL FIRE ALARM CODE.
- LOCAL REQUIREMENTS BY THE AUTHORITY HAVING JURISDICTION.

VISIT SITE OF PROPOSED PROJECT TO BECOME FAMILIAR WITH THE SCOPE OF WORK PRIOR TO SUBMITTING BIDS. NOTIFY ENGINEER OF DISCREPANCIES OR OMISSIONS FOR INTERPRETATION OR DECISION AND SUCH DECISION SHALL BE FINAL. INSTALL AND CONNECT PER THE REGULATIONS OF THE LOCAL UTILITY POWER COMPANIES. OBTAIN AND PAY FOR ANY AND ALL REQUIRED PERMITS, INSPECTIONS, CERTIFICATES OF INSPECTIONS AND APPROVAL, AND THE LIKE, AND DELIVER SUCH CERTIFICATES TO THE OWNER.

B. THE CONTRACTOR SHALL FURNISH, PERFORM, OR OTHERWISE PROVIDE ALL LABOR (INCLUDING, BUT NOT LIMITED TO, ALL PLANNING, PURCHASING, PAINTING, TRANSPORTING, RIGGING, HOISTING, STORING, INSTALLING, TESTING, CHASING, CHANNELING, CUTTING, TRENCHING, EXCAVATING AND BACKFILLING), COORDINATION, FIELD VERIFICATION, EQUIPMENT INSTALLATION, SUPPORT, AND SAFETY, SUPPLIES, AND MATERIALS NECESSARY FOR THE CORRECT INSTALLATION OF COMPLETE AND FUNCTIONAL ELECTRICAL SYSTEMS (AS DESCRIBED OR IMPLIED BY THESE SPECIFICATIONS AND THE APPLICABLE DRAWINGS).

C. ALL DRAWINGS AND SPECIFICATIONS ON THE PROJECT ARE COMPLEMENTARY, EACH TO ALL OTHER SETS, AND THEY SHALL BE USED IN COMBINATION FOR THE EXECUTION OF THIS WORK. DIVISION 26 WORK SHOWN ON ANY ONE SET OF DRAWINGS, INCLUDING ALL ARCHITECTURAL DRAWINGS, MECHANICAL, PLUMBING AND FIRE PROTECTION DRAWINGS FOR GENERAL WORK AND EQUIPMENT, AND DIVISION 26 WORK CALLED FOR UNDER ANY SECTION OF THE PROJECT SPECIFICATIONS, SHALL BE CONSIDERED AS INCLUDED IN THIS WORK UNLESS SPECIFICALLY EXCLUDED BY INCLUSION IN SOME OTHER BRANCH OF THE THIS SHALL INCLUDE ROUGHING-IN FOR CONNECTIONS AND EQUIPMENT AS CALLED FOR OR IMPLIED. THE CONTRACTOR SHALL CHECK ALL DRAWINGS AND SPECIFICATIONS FOR THE PROJECT AND SHALL BE RESPONSIBLE FOR THE INSTALLATION OF ALL DIVISION 26 WORK.

D. THE CONTRACTOR SHALL CAREFULLY CHECK THE DRAWINGS AND SPECIFICATIONS OF ALL OTHER TRADES AND DIVISIONS BEFORE INSTALLING ANY OF HIS WORK. HE SHALL IN ALL CASES CONSIDER THE WORK OF ALL OTHER TRADES, AND SHALL COORDINATE HIS WORK WITH THEM SO THAT THE BEST ARRANGEMENTS OF ALL EQUIPMENT, PIPING, CONDUIT, DUCTS, ROUGH-IN, ETC., CAN BE OBTAINED.

E. LOCATIONS DESIGNATED FOR OUTLETS, SWITCHES, DEVICES, EQUIPMENT, ETC., ARE APPROXIMATE AND FINAL LOCATIONS SHALL BE VERIFIED IN THE FIELD CHECKED WITH ARCHITECTURAL AND ID DRAWINGS. CONTRACTOR SHALL LOCATE ALL DEVICES UP TO 5 FEET IN ANY DIRECTION AS DIRECTED BY OWNER AND PER CODE. WHERE INSTRUCTIONS OR NOTES ARE INSUFFICIENT TO CONVEY THE INTENT OF THE DESIGN, CONSULT THE OWNER PRIOR TO BIDDING AND INSTALLATION.

F. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND COORDINATING THE LOCATIONS OF DEVICES TO BE USED AND COORDINATING THE FINAL LOCATIONS OF ELECTRICAL EQUIPMENT WITH MILLWORK, SINKS, BENCHES, COUNTERS AND SHELVING PRIOR TO BIDDING AND INSTALLATION. ALL DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER AND ARCHITECT.

G. DIVISION 26 CONTRACTOR SHALL HAVE HAD EXPERIENCE OF AT LEAST THE SAME SIZE AND SCOPE AS THIS PROJECT, ON AT LEAST TWO OTHER PROJECTS WITHIN THE LAST FIVE YEARS IN ORDER TO BE QUALIFIED TO BID THIS PROJECT.

H. CONTRACTOR SHALL AND DOES HEREBY WARRANT ALL MATERIALS AND EQUIPMENT FURNISHED UNDER THIS SECTION OF THE SPECIFICATIONS TO BE FREE FROM DEFECTS AND TO FUNCTION OR OPERATE SATISFACTORILY FOR ONE YEAR AFTER FINAL ACCEPTANCE OF THE WORK, AND THAT ANY ITEMS NOT MEETING THIS REQUIREMENT WILL BE MADE GOOD BY HIM WITHOUT COST TO OWNER, PROVIDED SUCH DEFECTS OR FAILURES ARE NOT DUE TO ABUSE, NEGLIGENCE, OR LACK OF REASONABLE AND ORDINARY MAINTENANCE.

I. ALL WORK SHALL BE EXECUTED IN A WORKMANSHIP MANNER AND SHALL PRESENT A NEAT MECHANICAL APPEARANCE UPON COMPLETION.

J. BALANCE LOAD AS EQUALLY AS PRACTICABLE ON ALL FEEDERS, BRANCH CIRCUITS AND PANEL BUSES.

K. THE CONTRACTOR SHALL PROVIDE ADEQUATE PROTECTION, WHEREVER WORK IS TO BE PERFORMED IN FINISHED/OCCUPIED SPACES, TO PREVENT DAMAGE TO ADJACENT AREAS, EQUIPMENT, OR FURNISHINGS; TO PREVENT ACCIDENTAL INJURY TO BUILDING OCCUPANTS AND THE PUBLIC; TO PREVENT THE SPREADING OF DUST, DIRT, DEBRIS, AND MOISTURE FROM THE AREA WHERE WORK IS BEING PERFORMED; AND TO PREVENT DUST, DIRT, DEBRIS, AND MOISTURE FROM GETTING ON OR IN THE BUILDING OCCUPANT'S FURNISHINGS OR EQUIPMENT.

L. THE CONTRACTOR SHALL REPAIR, AT NO COST TO THE OWNER, ANY DAMAGE DONE BY HIMSELF OR HIS EMPLOYEES. HE SHALL ALSO BE RESPONSIBLE FOR ALL CUTTING AND PATCHING REQUIRED TO PROPERLY INSTALL HIS WORK. THIS SHALL ALSO INCLUDE THE PATCHING OF EXISTING ROADWAYS (PAVED OR IMPROVED), PARKING AREAS, SIDEWALKS, WALKS, STAIRS, MECHANICAL WORK, CURBS, CUT TO INSTALL WORK PROVIDED BY THE CONTRACTOR. THE CONTRACTOR SHALL REPAIR WORK SHALL COMPLY WITH THE APPLICABLE SECTIONS OF THESE SPECIFICATIONS AND SHALL MATCH THE EXISTING FINISHES.

M. UPON COMPLETION OF WORK, THE ENTIRE WIRING SYSTEM SHALL BE TESTED, AND SHALL BE SHOWN TO BE IN PROPER WORKING CONDITION IN ACCORDANCE WITH INTENT OF SPECIFICATIONS AND DRAWINGS. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE TO OPERATE SAME IN ACCORDANCE WITH AND UNDER THE SUPERVISION OF THE INSPECTION REPRESENTATIVE OF THE ENGINEER. THE CONTRACTOR SHALL PROVIDE PROTECTION OF PANEL FRONTS TO ASSIST IN REMOVAL OF PANEL FRONTS AS REQUIRED, IN ACCORDANCE WITH DIVISION 1 AND THE CONDITIONS OF THE CONTRACT, THE CONTRACTOR SHALL PROVIDE AND KEEP UP TO DATE A COMPLETE RECORD SET OF CONSTRUCTION "AS-BUILT" BLUELINE PRINTS WHICH SHALL BE CORRECTED DAILY, AND SHALL SHOW EVERY CHANGE FROM THE ORIGINAL CONTRACT DRAWINGS, INCLUDING ADDENDA AND CHANGE ORDERS IN ACCORDANCE WITH GENERAL REQUIREMENTS AND SPECIAL CONDITIONS. THIS SET OF PRINTS SHALL BE KEPT ON THE JOB SITE, AND SHALL BE USED ONLY AS A RECORD SET. THIS SHALL NOT BE CONSTRUED AS AUTHORIZATION FOR THE CONTRACTORS TO MAKE CHANGES IN THE LAYOUT WITHOUT DEFINITE INSTRUCTION IN EACH CASE.

II. ELECTRICAL SCOPE:

A. THE WORK PROVIDED UNDER THIS DIVISION SHALL INCLUDE ALL LABOR, MATERIALS, PERMITS, INSPECTIONS AND REINSPECTION FEES, TOOLS, EQUIPMENT, TRANSPORTATION, INSURANCE, TEMPORARY PROTECTION, TEMPORARY LIGHTING, SUPERVISION AND INCIDENTAL ITEMS ESSENTIAL FOR PROPER INSTALLATION AND OPERATION, EVEN THOUGH NOT SPECIFICALLY MENTIONED OR INDICATED BUT WHICH ARE USUALLY PROVIDED OR ARE ESSENTIAL FOR PROPER INSTALLATION AND OPERATION OF ALL ELECTRICAL SYSTEMS AS INDICATED IN CONTRACT DOCUMENTS.

B. GIVE ALL NOTICES, FILE ALL PLANS, PAY ALL FEES, OBTAIN ALL PERMITS AND APPROVALS FROM AUTHORITIES HAVING JURISDICTION, INCLUDE ALL FEES IN THE BID PRICE.

C. THE DRAWINGS ARE DIAGRAMMATIC AND ARE NOT INTENDED TO SHOW EXACT LOCATIONS OF CONDUIT RUNS, OUTLET BOXES, JUNCTION BOXES, PULL BOXES, ETC., THE LOCATIONS OF EQUIPMENT, APPLIANCES, FIXTURES, CONDUITS, OUTLETS, BOXES AND SIMILAR DEVICES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. EXACT LOCATIONS SHALL BE AS ACCEPTED BY THE ENGINEER DURING CONSTRUCTION. OBTAIN IN THE FIELD ALL INFORMATION RELEVANT TO THE PLACING OF ELECTRICAL WORK AND IN CASE OF INTERFERENCE WITH OTHER WORK, PROCEED AS DIRECTED BY THE ENGINEER AND PROVIDE ALL LABOR AND MATERIALS NECESSARY TO COMPLETE THE WORK IN AN ACCEPTABLE MANNER.

D. NOTIFY ARCHITECT/ENGINEER OF ANY DISCREPANCIES FOUND DURING CONSTRUCTION OF THE PROJECT AND DO NOT PROCEED WITH THAT PORTION OF THE PROJECT, UNTIL A WRITTEN DEFINITIVE STATEMENT IS RECEIVED PROVIDING CLEAR DIRECTION. IF A CONFLICT EXISTS BETWEEN THE CONTRACT DOCUMENTS AND ANY APPLICABLE CODE OR STANDARD, THE MOST STRINGENT REQUIREMENT SHALL BE INCLUDED FOR THIS PROJECT. THE ENGINEER SHALL MAKE THE DECISION REGARDING QUESTIONABLE AREAS OF CONFLICT. EACH THREE-PHASE CIRCUIT SHALL BE RUN IN A SEPARATE CONDUIT UNLESS OTHERWISE SHOWN ON THE DRAWINGS. UNLESS OTHERWISE ACCEPTED BY THE ENGINEER, CONDUIT SHALL NOT BE INSTALLED EXPOSED UNLESS SPECIFICALLY DIRECTED TO BE CONCEALED. WHERE CIRCUITS ARE SHOWN AS "HOME-RUNS" ALL NECESSARY FITTINGS AND BOXES SHALL BE PROVIDED FOR A COMPLETE RACEWAY INSTALLATION.

E. BEFORE COMMENCING THE WORK, VERIFY EXISTING CONDITIONS AT THE PREMISES INCLUDING, BUT NOT LIMITED TO, EXISTING STRUCTURAL FRAME, EXISTING AND ALL DIMENSIONS, EXISTING OPENINGS AND CHARACTERISTICS, EXISTING WALL AND PARTITION LOCATIONS, CHARACTERISTICS AND RELATIONS TO EACH OTHER, EXISTING MECHANICAL AND ELECTRICAL WORK, EQUIPMENT TYPE, AND SHALL EXAMINE ALL ADJOINING WORK ON WHICH HIS WORK IF ANYWAY DEPENDENT FOR ITS PERFECT EFFICIENCY ACCORDING TO THE INTENT OF THE CONTRACT DOCUMENTS.

G. SPECIAL ATTENTION IS CALLED TO THE FACT THAT WORK INVOLVED IS IN CONNECTION WITH EXISTING BUILDINGS WHICH REMAIN IN OPERATION WHILE WORK IS BEING PERFORMED. WORK MUST BE DONE IN ACCORDANCE WITH THE PRIORITY SCHEDULE. SCHEDULE WORK FOR A MINIMUM OUTLET TO PROPERTY MANAGEMENT TEAM. REQUEST WRITTEN PERMISSION AND RECEIVE WRITTEN ACCEPTANCE FROM THE OWNER NO LATER THAN 24 HOURS IN ADVANCE OF ALL POWER AND COMMUNICATION SHUT-DOWNS. PERFORM WORK REQUIRED AT OTHER THAN STANDARD WORKING HOURS WHERE OUTAGES CANNOT BE ACCEPTED BY OWNER DURING REGULAR WORKING HOURS. PROTECT EXISTING BUILDINGS AND EQUIPMENT DURING CONSTRUCTION.

H. SPECIAL ATTENTION IS CALLED TO THE FACT THAT THERE WILL BE PIPING, FIXTURES OR OTHER ITEMS IN THE EXISTING BUILDING WHICH MUST BE REMOVED OR RELOCATED IN ORDER TO PERFORM THE ALTERATION WORK. BID SHALL INCLUDE ALL REMOVAL AND RELOCATION REQUIRED FOR COMPLETION OF THE ALTERATIONS AND THE NEW CONSTRUCTION.

I. DURING THE EXECUTION OF WORK, ALL REQUIRED RELOCATION, REROUTING, ETC. OF EXISTING EQUIPMENT AND SYSTEMS IN THE EXISTING BUILDING AREAS WHERE THE WORK IS REQUIRED, SHALL BE PERFORMED BY THE CONTRACTOR, AS INDICATED ON THE DRAWINGS, OR AS REQUIRED BY JOB CONDITIONS AND AS DETERMINED BY THE ARCHITECT IN THE FIELD, TO FACILITATE THE INSTALLATION OF THE NEW SYSTEMS. THE OWNER SHALL REQUIRE CONTINUOUS OPERATION OF THE EXISTING SYSTEMS, WHILE DEMOLITION, RELOCATION WORK OR NEW TIE-INS ARE PERFORMED.

J. THE OWNER RESERVES THE RIGHT TO INSPECT THE MATERIAL SCHEDULED FOR REMOVAL AND SALVAGE ANY ITEMS HE DEEMS USABLE AS SPARE PARTS.

K. TEMPORARY REMOVAL AND RECONNECTION OF ALL EQUIPMENT REQUIRING AN ELECTRICAL CONNECTION, MENTIONED IN THIS DIVISION OR SHOWN ON DRAWINGS, WHETHER FURNISHED BY DIVISION 26 OR UNDER OTHER DIVISIONS, OR FURNISHED BY OWNER, INCLUDING FIRE PROTECTION AND FIRE SPRINKLER SYSTEMS.

L. FURNISHING AND INSTALLATION OF CONDUIT RACEWAYS, POWER, AND GROUNDING FOR A COMPLETE POWER DISTRIBUTION SYSTEM AS DEEMED NECESSARY FOR THIS RENOVATION.

M. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR CONTACTING THE OFFICES OF ALL LOCAL AND/OR STATE AUTHORITIES HAVING JURISDICTION OVER THIS PROJECT IN ORDER TO SCHEDULE ALL REQUIRED INSPECTIONS AND OBTAIN ALL NECESSARY PERMITS, ETC. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ALL SCHEDULED INSPECTIONS AT LEAST TWO WEEKS IN ADVANCE OF THE SCHEDULED DATE.

N. THE CONTRACTOR SHALL REPLACE ANY DEFECTIVE MATERIALS, EQUIPMENT, OR WORKMANSHIP WITHOUT COST TO THE OWNER WITHIN THE STIPULATED GUARANTEED PERIOD.

O. IT SHALL BE THE RESPONSIBILITY OF THE DIVISION 26 CONTRACTOR TO HAVE ALL SYSTEMS READY FOR OPERATION AND TO HAVE AN ELECTRICIAN AVAILABLE FOR ALL INSPECTIONS. THE CONTRACTOR SHALL PROVIDE PERSONNEL TO ASSIST IN REMOVAL OF PANEL FRONTS, ETC. TO PERMIT INSPECTION AS REQUIRED.

P. SUBMIT TO THE ARCHITECT/ENGINEER PROMPTLY AFTER AWARD OF CONTRACT AND PRIOR TO PURCHASING, DIGITAL COPIES OF MANUFACTURER'S SHOP DRAWINGS IN ACCORDANCE WITH DIVISION 1, SUBMITTALS FOR THE FOLLOWING ITEMS: ALL SHOP DRAWINGS OF A SPECIFIC ITEM OR SYSTEM SHALL BE MADE IN ONE SUBMITTAL AND WITHIN TEN DAYS AFTER AWARD OF CONTRACT.

- WIRING DEVICES
- CONDUIT
- CONDUCTORS
- LOAD CENTERS

Q. COMPLETED WIRING SYSTEMS SHALL BE FREE FROM SHORT CIRCUITS AND AFTER COMPLETION, PERFORM TESTS FOR INSULATION RESISTANCE IN ACCORDANCE WITH THE REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE. ALL WIRING SYSTEMS SHALL BE COMPLETELY AND TOTALLY "SAFE" DURING CONSTRUCTION. ONLY QUALIFIED PERSONNEL SHALL HANDLE ELECTRICAL SYSTEMS.

II. ELECTRICAL SCOPE(CONT)

R. THE ELECTRICAL CIRCUITS, COMPONENTS, AND CONTROLS FOR ALL EQUIPMENT ARE SELECTED AND SIZED, BASED ON THE EQUIPMENT SPECIFIED. IF SUBSTITUTIONS AND/OR EQUIVALENT EQUIPMENT ARE FURNISHED, IT SHALL BE THE RESPONSIBILITY OF ALL PARTIES CONCERNED, INVOLVED IN, AND FURNISHING THE SUBSTITUTE AND/OR EQUIVALENT EQUIPMENT TO VERIFY AND COMPARE THE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF THAT FURNISHED TO THAT SPECIFIED.

S. IF GREATER CAPACITY OR MORE MATERIALS OR LABOR IS REQUIRED FOR THE ROUGH-IN, CIRCUITRY OR CONNECTIONS THAN FOR THE ITEM SPECIFIED AND PROVIDED FOR, THEN IT SHALL BE THE RESPONSIBILITY OF THE PARTIES INVOLVED IN PROVIDING THE SUBSTITUTE AND/OR EQUIVALENT ITEMS OF EQUIPMENT TO PROVIDE ALL COMPENSATION FOR ADDITIONAL CHARGES MADE FOR THE PROPER ROUGH-IN, CIRCUITRY AND CONNECTIONS FOR THE EQUIPMENT FURNISHED. NO ADDITIONAL CHARGES ABOVE THE BASE BID SHALL BE ALLOWED FOR SUCH REVISIONS. BEFORE ROUGH-IN OF CIRCUITRY OR CONNECTING TO EQUIPMENT, FURNISH OR THE OTHER DIVISION, OR THE OTHER SHALL BE SIZED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLES 250 AND 517 OF THE NATIONAL ELECTRICAL CODE. GROUNDING CONDUCTORS #6 AWG AND SMALLER SHALL HAVE A GREEN COLOR INSULATION. ALL GROUNDING CONDUCTORS #4 AWG AND LARGER SHALL BE ADEQUATELY IDENTIFIED WITH A GREEN TIE-BAND AND/OR A GREEN COLORED TAPE AT EACH END OF THE GROUNDING CONDUCTOR AND AT EACH PULLBOX OR OTHER ACCESSIBLE LOCATION.

T. METALLIC MATERIALS SHALL BE PROTECTED AGAINST CORROSION. EQUIPMENT ENCLOSURES SHALL BE GIVEN RUST-INHIBITING TREATMENT AND STANDARD FINISH BY MANUFACTURER. ALUMINUM SHALL NOT BE USED ON CONTACT WITH EARTH, AND, WHERE CONNECTED TO DISSIMILAR METAL, SHALL BE PROTECTED BY SUITABLE FITTINGS AND TREATMENT. ALL FERROUS METALS SUCH AS ANCHORS, BOLTS, BRACKETS, BOXES, FITTINGS, CLAMPS, CLIPS, GUARDS, NUTS, PINS, RODS, SHIMS, THIMBLES, WASHERS, AND MISCELLANEOUS PARTS, NOT OF STAINLESS STEEL OR NONFERROUS MATERIALS, SHALL BE HOT-DIPPED GALVANIZED.

U. ALL CONDUITS STUBBED OUT FOR FUTURE USE SHALL HAVE A PULL WIRE INSTALLED, A PLASTIC CAP INSTALLED AND BE IDENTIFIED AS TO THE CONDUIT ORIGIN.

V. THE RESPONSIBILITY FOR ANY CUTTING OF CONSTRUCTION WHICH IS REQUIRED FOR THE INSTALLATION OF DIVISION 26 WORK, SHALL BE BY THE CONTRACTOR. THE CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES AND THE OWNER BEFORE ANY CUTTING AND OBTAIN APPROVAL FROM THE ARCHITECT/ENGINEER PRIOR TO ANY CUTTING. ALL PATCHING AND FINISHING SHALL BE BY THE CONTRACTOR.

W. WHERE OPENINGS OR HOLES ARE CUT IN CONSTRUCTION AND THE CUTTING BREAKS ELECTRICAL CIRCUITRY OR CONTROL CIRCUITRY CONDUIT AND WIRING, THEN IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REROUT THE CIRCUITRY, CONDUIT AND WIRING AND TO COMPLETE THE CIRCUITRY AS REQUIRED AND AS APPROVED BY THE ARCHITECT/ENGINEER. TEMPORARY COMPLETION SHALL BE PROVIDED WHERE NECESSARY BEFORE THE PERMANENT REROUTING AND COMPLETION WORK IS FINISHED.

X. ANY PENETRATIONS OF FIRE OR SMOKE RATED ASSEMBLIES MADE BY THIS CONTRACTOR IN VERTICAL OR HORIZONTAL CONSTRUCTION SHALL BE SEALED AND PROTECTED BY THIS CONTRACTOR IN ORDER TO MAINTAIN THE ESTABLISHED FIRE RATING WITH METHODS AS APPROVED BY THE AUTHORITY HAVING JURISDICTION AND U.L.

III. IDENTIFICATION:

A. IDENTIFICATION NAMEPLATES SHALL BE LAMINATED PLASTIC, SECURED TO EQUIPMENT WITH TWO STAINLESS STEEL SCREWS.

B. EACH PANELBOARD AND METER CENTER SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS, SECURELY FASTENED TO THE DEVICE.

C. EACH INDIVIDUALLY MOUNTED CIRCUIT BREAKER, SWITCH, MOTOR STARTER, RELAY PANEL, LIGHTING CONTRACTOR, TRANSFORMER AND/OR ANY OTHER CONTROL OR PROTECTIVE DEVICE INCLUDING.

D. EQUIPMENT DISCONNECT SWITCHES SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS.

E. PANELBOARDS SHALL HAVE TYPEWRITTEN DIRECTORIES. ALL CIRCUITS TO BE IDENTIFIED BY DEVICES SERVED AND ROOM NUMBERS (I.E., LIGHTING ROOM 216). HANDWRITTEN DIRECTORIES WILL NOT BE ALLOWED.

F. EACH JUNCTION BOX CABINET OR WIREWAY LARGER THAN 6" X 6" SHALL BE EQUIPPED WITH A PERMANENT PLASTIC NAMEPLATE WITH 1/2" MINIMUM LETTERS INDICATING THE SYSTEM ENCLOSED.

G. ENTIRE BOX INSIDE AND OUT , INCLUDING COVER, SHALL BE PAINTED PRIOR TO INSTALLING CONDUCTORS.

IV. WIRING DEVICES:

A. SWITCHES SHALL BE 20 AMP COMMERCIAL GRADE 125 VAC. WHITE IN COLOR WITH WHITE COVERPLATES FOR COMMON AREAS.

B. RECEPTACLES SHALL BE 20 AMP SPECIFICATION GRADE 125 VAC. WHITE IN COLOR WITH WHITE COVERPLATES FOR COMMON AREAS.

C. WEATHERPROOF RECEPTACLES SHALL BE GFCI TYPES WITH GASKETED STAINLESS STEEL KEY LOCKABLE FLIP COVER TYPE COVERPLATES. SURGE SUPPRESSION TYPE OUTLETS IN MDPS AND IDPS SHALL BE HUBBELL #83625 (BLUE) OR EQUAL.

D. RECEPTACLES PROVIDED FOR ATTACHMENT OF CORD AND PLUS EQUIPMENT SHALL BE HEAVY DUTY. SPECIFICATION GRADE, NON-INTERCHANGEABLE, FLUSH MOUNTED TYPES OF THE PROPER NEMA CONFIGURATION TO SERVE THE EQUIPMENT. NEMA CONFIGURATIONS SHALL BE VERIFIED PRIOR TO INSTALLATION OF CIRCUIT CONDUCTORS. PROVIDE ALL FINAL FLEXIBLE CONDUIT CONNECTIONS, TO GARBAGE DISPOSAL, DISHWASHER, RANGE, MICROWAVES AND HVAC EQUIPMENT.

E. ALL DEVICES SHALL HAVE PROPER PLATES, CARPET FLANGES, TRIMS, RINGS, ESCUTCHEONS, ETC., AS MANUFACTURED BY SAME MANUFACTURER AS DEVICES. ANY TELEPHONE OR OTHER OUTLET WHICH IS NOT EQUIPPED WITH A PLATE FURNISHED BY OTHERS SHALL HAVE ONE PROVIDED BY THIS CONTRACTOR.

F. MOUNTING HEIGHTS ARE APPROXIMATE. THE EXACT LOCATIONS AND MOUNTING HEIGHTS SHALL BE DETERMINED ON THE JOB AND PER ARCHITECTURAL DRAWINGS AND IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE WITH ALL TRADES TO INSURE CORRECT INSTALLATION. OVER COUNTERS IN OR ABOVE BACK-SPLASHES, IN BLOCK WALLS, TILE AND OTHER SPECIFIC CONSTRUCTION FEATURES. LOCATION OF OUTLETS MOUNTED IN BUILT-INS, MILLWORK, AND CABINETRY SHALL BE VERIFIED. OUTLETS MOUNTED IN KICK OR TIO SPACES SHALL BE MOUNTED HORIZONTALLY. OUTLET BOXES SHALL BE MOUNTED TO PREVENT DUSTING PLATE FROM OVERLAPPING BACKSPLASH, TRIM, TILE, LOCATE SO DEVICE PLATE WILL LAY FLAT AGAINST SURFACE COMPLETELY AROUND THE PERIMETER OF PLATE.

G. OUTLETS, OTHER THAN THOSE COORDINATED WITH COUNTER TOPS, SHELVES, AND CABINETS, SHALL BE LOCATED WITH THE CENTER LINE OF OUTLET BOXES THE FOLLOWING DISTANCE ABOVE THE FINISHED FLOOR, UNLESS OTHERWISE INDICATED:

- RECEPTACLES, GENERAL: 1'-6" AFF
- SWITCHES, GENERAL: 4'-0" AFF

CLIENT DEDICATED ELECTRICAL EQUIPMENT DEVICES: SHALL BE COORDINATED WITH MANUFACTURER.

V. RACEWAYS:

A. SHALL BE GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. E.M.T. SHALL BE ELECTRO-GALVANIZED.

B. SHALL BE STANDARD THREADED TYPE, GALVANIZED OUTSIDE AND INSIDE BY HOT DIPPING. THREADLESS AND CLAMP TYPE NOT ACCEPTABLE. SHALL BE AS MANUFACTURED BY RACO, EFCOR, OR APPLON SHALL BE STEEL THREADED COMPRESSION TYPE. ALL COUPLINGS AND CONNECTORS SHALL BE EFCOR OR RACO. PRESSURE INDENTED TYPE CONNECTORS OR CAST METAL WILL NOT BE APPROVED FOR ANY LOCATION.

C. CONNECTORS SHALL HAVE PLASTIC INSULATED THROAT INSERTS.

D. THE USE OF METAL CLAD CABLE IS ACCEPTABLE IN LOCATIONS AS ACCEPTED BY THE NEC AND ALL LOCAL JURISDICTIONAL CODES.

E. STEEL METAL CLAD CABLE, TYPE MC, EMPLOYING CIRCUIT CONDUCTORS #12 SOLID TO #2 AWG, SOLID OR STRANDED COPPER WITH THIN INSULATION, AN INSULATED GROUND GROUNDING CONDUCTOR AND GALVANIZED STEEL INTERLOCKED ARMOR. CLADDING, THE CABLES SHALL BE SUITABLE FOR USE IN CONCEALED DRY LOCATIONS AT TEMPERATURES NOT EXCEEDING 90° C ON AD CIRCUITS UP TO 600 VOLTS IN ACCORDANCE WITH N.E.C., ARTICLE 334. THE CABLE SHALL BE ONE AND TWO HUR FIRE RATED PER ANSI/UL 1479 FOR USE CONCEALED IN WALL, CEILING AND FLOOR ASSEMBLIES.

F. FLEXIBLE METALLIC CONDUIT RACEWAYS MAY BE USED TO CONNECT HVAC UNITS LOCATED IN INTERIOR MECHANICAL AREAS. MINIMUM SIZE 3/4".

G. CONDUIT SHALL BE SIZED IN ACCORDANCE WITH THE LATEST NATIONAL ELECTRICAL CODE EXCEPT THAT NO CONDUIT SHALL BE SMALLER THAN 3/4" UNLESS OTHERWISE NOTED. CONDUIT SHALL BE SIZED LARGER THAN REQUIRED ABOVE WHEN SO SHOWN ON THE DRAWINGS OR WHEN REQUIRED BY LOCAL CODE.

H. ANY CONDUIT STUBBED OUT FOR FUTURE SHALL BE CAPPED WITH A PLASTIC CAP AND MARKED WITH A 2" MINIMUM RED METAL TAG WHICH IDENTIFIES CONDUIT ORIGIN. CONDUITS STUBBED UP ABOVE GRADE OR ROOF SHALL BE TAGGED ON THE CONDUIT CONDUIT STUBBED BELOW GRADE SHALL BE TAGGED ON NEAREST BUILDING WALL, CURB, ETC., DIRECTLY OVER THE CONDUIT. ALL EMPTY CONDUITS SHALL HAVE PULL WIRES.

I. WHERE RIGID NON-METALLIC CONDUIT TRANSITIONS TO METALLIC CONDUIT, THE LOCATION OF THE TRANSITION SHALL BE UNDERGROUND, NO PVC CONDUIT SHALL BE RUN EXPOSED, OR ABOVE GRADE.

VI. WIRE AND CABLE 600 VOLTS:

A. CONDUCTORS SHALL HAVE CURRENT CARRYING CAPACITIES AS PER NEC AND WITH 600 VOLT INSULATION, #12 AVERAGE MINIMUM FOR 20 AMP CIRCUITS. CONDUCTORS SHALL BE COPPER.

B. #12 AND #10 SHALL BE SOLID, TYPE THHN/THHN INSULATION.

C. #8 AND LARGER, AND ANY SIZE TO MOTORS SHALL BE STRANDED TYPE THHN. SHALL BE MADE WITH T & B STA-KON WIRE JOINTS, PT SERIES, COMPLETE WITH INSULATING CAPS AND INSTALLED WITH W161 TOOL, OR W2000 TOOL, IDEAL SUPER-NUTS (NOT WIRE IDEAL WING NUTS, OR BUCHANAN ELEC. PRODUCTS B CAP OR SERIES 2000 PRESSURE CONNECTORS COMPLETE WITH NYLON SNAP-ON INSULATORS AND INSTALLED WITH C24 PRESSURE TOOL.

D. ALL JOINTS AND SPLICES IN WIRE SHALL BE MADE WITH APPROVED SOLDERLESS CONNECTORS, AND COVERED SO THAT INSULATION IS OWNER APPROVED EQUAL TO CONDUCTOR INSULATION. SPLICES SHALL NOT BE PERMITTED IN CONTROL, SECURITY, FIRE ALARM, TELEVISION OR COMMUNICATIONS SYSTEMS, OR WHERE OTHERWISE NOTED. SPLICING OF WIRE OR CABLES WILL NOT BE ALLOWED BELOW GRADE, INCLUDING IN BOXES BELOW GRADE.

F. BOTH CONDUCTORS AND CONDUITS SHALL BE CONTINUOUS FROM OUTLET TO OUTLET.

G. IN INSTALLING THE MAIN ELECTRICAL SERVICE, ADDITIONAL SLACK CONDUCTORS SHALL BE PROVIDED AND TERMINATED AS REQUIRED BY ELECTRIC UTILITY FOR CONNECTION TO THEIR EQUIPMENT. FIELD COORDINATE WITH UTILITY PRIOR TO INSTALLING CONDUCTORS.

H. IN INSTALLING PARALLEL CONDUCTORS IT IS MANDATORY THAT ALL CONDUCTORS MAKING UP THE FEEDER BE EXACTLY THE SAME LENGTH, THE SAME SIZE AND THE SAME TYPE OF CONDUCTOR WITH THE SAME INSULATION. FURTHER, EACH GROUP OF CONDUCTORS MAKING UP A PHASE OR NEUTRAL MUST BE BONDED AT BOTH ENDS IN AN APPROVED MANNER.

I. CONDUCTOR SIZES INDICATED ON CIRCUIT HOMERUNS OR IN PANELBOARD SCHEDULES SHALL BE INSTALLED OVER THE ENTIRE LENGTH OF THE CIRCUIT UNLESS NOTED OTHERWISE ON THE DRAWINGS.

J. CONDUCTORS SHALL BE CONTINUOUS AND UNSPLICED WHERE INSTALLED IN CONDUIT. SPLICES SHALL OCCUR ONLY WITHIN WIRING TROUGHS, WIREWAYS, JUNCTION BOXES, OUTLET BOXES, OR EQUIPMENT ENCLOSURES WHERE SUFFICIENT ADDITIONAL ROOM IS PROVIDED FOR ALL SPLICES.

VII. GROUNDING:

A. THIS SECTION DEALS WITH THE GROUNDING OF SERVICE EQUIPMENT, TRANSFORMERS, NON-CURRENT CARRYING CONDUCTIVE SURFACES OF EQUIPMENT, METAL BUILDING, STRUCTURES AND OTHER EQUIPMENT. MAXIMUM RESISTANCE SHALL NOT EXCEED 10 OHMS.

B. ALL GROUNDING CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND REQUIREMENTS. SUCH CODES SHALL BE CONSIDERED MINIMUM REQUIREMENTS AND THE INSTALLATION OF THE GROUNDING SYSTEM SHALL INSURE FREEDOM FROM DANGEROUS SHOCK EXPOSURE AND SHALL PROVIDE A LOW IMPEDANCE GROUND FAULT PATH TO PERMIT OPERATION OF OVERCURRENT AND GROUND FAULT PROTECTIVE DEVICES.

C. ALL SERVICE AND EQUIPMENT GROUNDING CONDUCTORS, AND BONDING JUMPERS SHALL BE INSULATED COPPER, TYPE THHN, THHN, OR THW CONDUCTORS, OR THEY SHALL BE SIZED IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF ARTICLES 250 AND 517 OF THE NATIONAL ELECTRICAL CODE. GROUNDING CONDUCTORS #6 AWG AND SMALLER SHALL HAVE A GREEN COLOR INSULATION. ALL GROUNDING CONDUCTORS #4 AWG AND LARGER SHALL BE ADEQUATELY IDENTIFIED WITH A GREEN TIE-BAND AND/OR A GREEN COLORED TAPE AT EACH END OF THE GROUNDING CONDUCTOR AND AT EACH PULLBOX OR OTHER ACCESSIBLE LOCATION.

D. THE MAIN SERVICE GROUNDING ELECTRODE SYSTEM SHALL CONSIST OF THE FOLLOWING ITEMS BONDED TOGETHER BY THE GROUNDING ELECTRODE CONDUCTORS IN ACCORDANCE WITH NEC ARTICLE 250:

- THE MAIN UNDERGROUND COLD WATER PIPE, NEC 250.
- METAL FRAME OF BUILDING WHERE AVAILABLE, NEC 250.
- CONCRETE ENCASED ELECTRODE, NEC 250-81(C).

P. THE NEUTRAL CONDUCTOR SHALL BE GROUNDED AT THE SERVICE ENTRANCE MAIN DISCONNECT, AND AT EACH SEPARATELY DERIVED SYSTEM ONLY PER NEC ARTICLE 250.

Q. A #4 INSULATED GREEN COLORED COPPER CONDUIT EACH BUILDING IN 3/4" CONCEALED CONDUIT SHALL BE CONNECTED FROM THE BUILDING GROUNDING ELECTRODE SYSTEM TO EACH INSTALLED FIRE ALARM CONTROL CABINET, CCTV SYSTEMS, EMS CABINETS, RELAY CABINETS, AND SECURITY SYSTEM CABINETS. TERMINATE ON AN APPROPRIATELY SIZED (8) TERMINAL MULTI-CONDUCTOR CONNECTION GROUNDING LUG LOCATED WITHIN CABINET OR ON TERMINAL BORDERS.

VIII. FIRESTOPPING FOR ELECTRICAL PENETRATIONS:

A. PROVIDE THROUGH PENETRATION FIRESTOP SYSTEMS TO PREVENT THE SPREAD OF FIRE OR SMOKE THROUGH OPENINGS MADE IN FIRE-RATED WALLS OR FLOORS TO ACCOMMODATE ELECTRICAL THROUGH PENETRATING ITEMS SUCH AS CONDUIT, AND CABLES. FIRESTOP SHALL PROVIDE NECESSARY FIRE (F) AND TEMPERATURE (T) RATINGS. FIRESTOP SHALL BE WATERPROOF AND COLD SMOKE PROOF.

B. PROVIDE NECESSARY PROTECTION OF OPENINGS IN RATED FLOOR-CEILING AND ROOF-CEILING ASSEMBLIES FOR LUMINAIRES AND OTHER ELECTRICAL PENETRATIONS.

C. INSTALL PROTECTIVE MATERIALS ON ELECTRICAL OUTLET BOXES WHEN OPENINGS IN FIRE-RESISTIVE WALLS OR PARTITIONS EXCEED OPENINGS ALLOWED BY BUILDING CODE.

IX. EXISTING CONDITIONS GENERAL NOTES:

A. VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE BUILDING AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.

B. ELECTRICAL CONTRACTOR SHALL TRACE BRANCH CIRCUITS TO IDENTIFY CIRCUITS SERVING AREA WITHIN SCOPE OF WORK. PROVIDE UPDATED TYPEWRITTEN PANEL SCHEDULES AT COMPLETION OF WORK.

C. REMOVE EXISTING POWER, LIGHTING, SYSTEMS, MATERIAL AND EQUIPMENT WHICH ARE MADE OBSOLETE OR WHICH INTERFERE WITH THE CONSTRUCTION OF THE PROJECT.

D. REINSTALL ANY SUCH POWER, LIGHTING, SYSTEMS, MATERIALS AND EQUIPMENT WHICH ARE REQUIRED TO REMAIN ACTIVE FOR THE FACILITY TO BE FULLY FUNCTIONAL.

E. EXISTING OUTLET BOXES AND CONDUIT WHICH ARE LOCATED PROPERLY FOR NEW WORK MAY BE REUSED FOR NEW DEVICES AND WIRE.

F. ALL EXISTING CONDUIT AND CABLES WITHIN THE AREA OF RENOVATION SHALL BE PROVIDED WITH PROPER SUPPORTS AS SPECIFIED FOR NEW WORK IN OTHER SECTIONS OF THIS SPECIFICATION.

G. ALL EXISTING ELECTRICAL WHICH IS DESIGNATED FOR REMORKING OR REQUIRES RELOCATION, REPAIR OR ADJUSTMENT SHALL CONFORM TO ALL APPLICABLE CODES AND SHALL BE TREATED AS NEW WORK COMPLYING TO ALL SECTIONS OF THIS SPECIFICATION.

H. WHERE EXISTING CONDITIONS ARE DISCOVERED WHICH ARE NOT IN COMPLIANCE WITH THE CODES AND STANDARDS, THE CONTRACTOR SHALL SUBMIT PROPER DOCUMENTATION TO THE ARCHITECT FOR CLARIFICATION AND CORRECTIVE WORK DIRECTION. EXISTING CONDITIONS SHALL NOT REMAIN WHICH WILL CREATE A DISAPPROVAL OF THE RENOVATED AREA.

I. ALL EXISTING CONDUIT AND CABLE PENETRATIONS SHALL BE PROPERLY FIRE TREATED PER CODE AND SPECIFICATION REQUIREMENTS. THE CONTRACTOR SHALL THOROUGHLY INSPECT ALL EXISTING LOCATIONS AND INCLUDE THE COST OF PATCHING AND REPAIR IN HIS PROPOSED CONSTRUCTION COST.

J. ALL MATERIALS SHALL BE NEW, FREE FROM DEFECTS AND SHALL BE EITHER U.L. LABELED, U.L. LISTED OR BEAR THE SEAL OF A NATIONALLY RECOGNIZED ELECTRICAL TESTING LABORATORY.

K. SHOP DRAWINGS ARE REQUIRED FOR ALL MATERIALS AND EQUIPMENT.

L. ALL EQUIPMENT SHALL BE FIRMLY MOUNTED USING APPROVED HANGERS ATTACHED TO STRUCTURAL PORTIONS OF THE BUILDING. SUPPORTING WITH THE WIRE IS PROHIBITED. LIGHT FIXTURES RECESSED IN CEILINGS SHALL BE SUPPORTED FROM THE BUILDING STRUCTURE INDEPENDENT OF THE CEILING SYSTEM.

M. SERVICE AND METERING SHALL MEET THE REQUIREMENTS OF THE LOCAL UTILITY COMPANY AND ALL PROVISIONS OF NFPA 70. TEMPORARY LIGHT AND POWER SHALL BE PROVIDED AS REQUIRED.

N. PROVIDE A ONE-YEAR GUARANTEE. THIS GUARANTEE SHALL BE BY THE CONTRACTOR TO THE OWNER FOR ANY DEFECTIVE WORKMANSHIP OR MATERIAL WHICH HAS BEEN PROVIDED UNDER THIS CONTRACT AT NO COST TO THE OWNER FOR A PERIOD OF ONE YEAR FROM THE DATE OF SUBSTANTIAL COMPLETION OF THE SYSTEM. THE GUARANTEE SHALL INCLUDE ALL LAMPS, FOR NINETY DAYS AFTER DATE OF SUBSTANTIAL COMPLETION OF THE SYSTEM. EXPLAIN THE PROVISIONS OF GUARANTEE TO THE OWNER AT THE "DEMONSTRATION OF COMPLETED SYSTEM".

O. ALL WIRING SHALL BE INSTALLED IN APPROPRIATE RACEWAY SYSTEMS OF RIGID GALVANIZED CONDUIT, ELECTRIC METALLIC TUBING, FLEXIBLE STEEL CONDUIT AND LIQUID-TIGHT FLEXIBLE CONDUIT AS CONDITIONS AND CODES DICTATE. EMT SHALL BE JOINED WITH STEEL COMPRESSION TYPE FITTINGS.

P. ALL CONDUIT SHALL HAVE AN INSULATED COPPER EQUIPMENT GROUNDING CONDUCTOR THROUGHOUT THE ENTIRE LENGTH OF THE CIRCUIT WITHIN THE CONDUIT.

Q. EQUIPMENT AND APPLICATIONS SHALL BE PER NEMA STANDARDS.

R. CABLES, MOTORS, GROUNDS, TRANSFORMERS, AND THE EMERGENCY SYSTEM SHALL BE THOROUGHLY TESTED. CONTRACTOR SHALL PROVIDE A REPORT INDICATING THE RESULTS OF ALL TESTS.

S. INSTALL A BLANK WHITE COVER PLATE WHERE REQUIRED.

T. WHERE NEW OPENINGS ARE CUT AND CONCEALED CONDUITS, ETC., ARE ENCOUNTERED, THEY SHALL BE REMOVED OR RELOCATED AS REQUIRED. WHERE CONDUIT TO BE REMOVED STUBS THROUGH FLOORS, WALLS, AND CEILINGS, SUCH CONDUIT SHALL BE REMOVED TO THE POINT WHERE THE FINISH SURFACES CAN BE PATCHED ADEQUATELY SO THAT NO EVIDENCE OF THE FORMER INSTALLATION REMAINS.

U. ALL REUSABLE DEVICES, FIXTURES AND EQUIPMENT SHALL BECOME THE PROPERTY OF THE OWNER. ALL OTHER SALVAGE AND DEBRIS SHALL BE REMOVED FROM THE PREMISES DAILY.

X. DEMOLITION GENERAL NOTES:

A. REFERENCES TO INDIVIDUAL CIRCUITS BY NUMBER ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE EXISTING CONDITIONS ARE BASED ON REVIEWS OF EXISTING DRAWINGS AND FIELD OBSERVATIONS. ALL CIRCUITS SHALL BE VERIFIED PRIOR TO START OF THE WORK. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY VARIATIONS IN EXISTING CONDITIONS FROM THOSE SHOWN ON THE DRAWINGS.

B. ALL EXISTING EQUIPMENT AND DEVICES SHALL BE DE-ENERGIZED PRIOR TO WORKING ON THE EQUIPMENT. CONTRACTOR SHALL IDENTIFY AND TAG ALL CONDUCTORS PRIOR TO STARTING ANY DEMOLITION.

C. RECONNECT EXISTING CIRCUITS, AS REQUIRED, TO ASSURE CONTINUITY OF CIRCUITS TO AREAS OUTSIDE THE DEMOLITION AREA.

D. DE-ENERGIZE CIRCUITS FOR EQUIPMENT NOTED TO BE RECONNECTED OR MODIFIED. REMOVE WIRE AND CONDUIT TO THE FIRST JUNCTION BOX, OUTLET BOX OR EQUIPMENT CONNECTION WAY

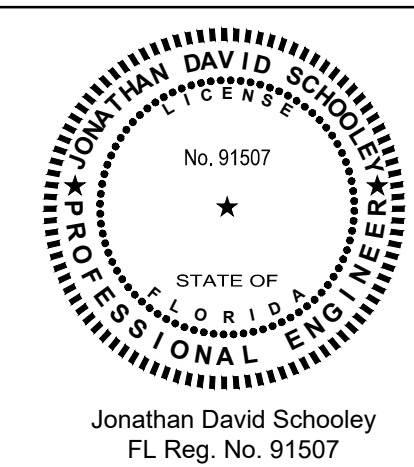
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CONSULTANT:



MEP, Fire Protection, Energy Modeling,
Sustainability Consulting
Certificate of Authorization Number: 35916
Address: 1623 Kalia Cx, Sanford, FL 32771
Tel: (407) 463-9568
www.tagsengr.com



REVISIONS

DOCUMENT HISTORY

DESCRIPTION

NO. DATE

SOUTHWESTERN MIDDLE SCHOOL
REPLACE GYMNASIUM BLEACHERS
VCS Project NO. 2648249

605 W. NEW HAMPSHIRE AVENUE, DELAND, FLORIDA 32720

ARCHITECT OF RECORD

Architect
Group 942 Architecture, P.A.

DESIGNED BY

VM

DESIGN BY

VM

ISSUE DATE

12/03/2025

AS PROJECT NUMBER

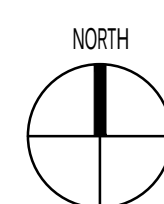
25VCSa

SHEET TITLE

ELECTRICAL DEMOLITION FLOOR PLAN

DRAWING NO.

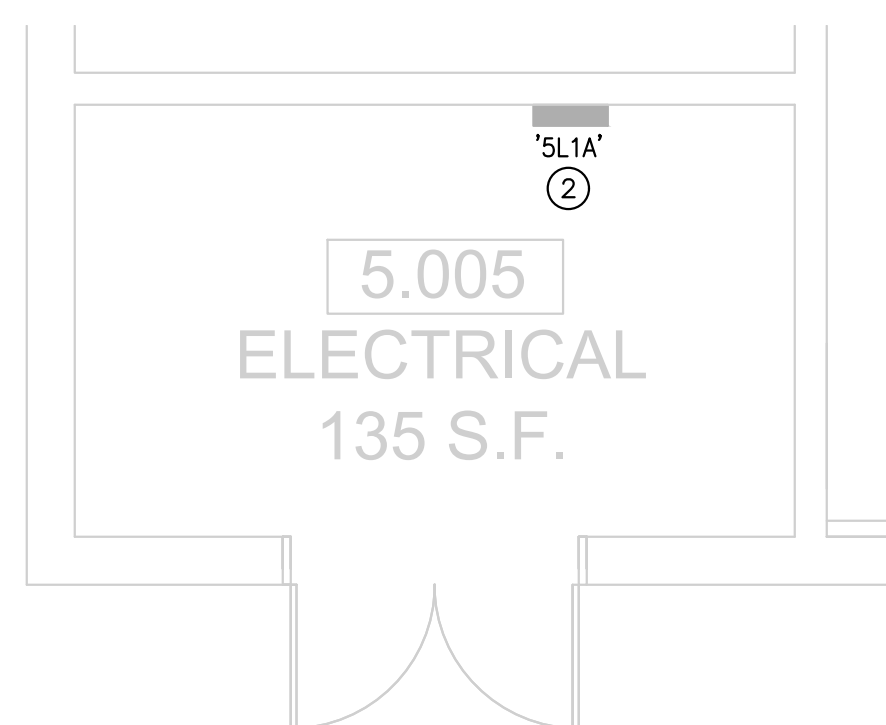
ED101



2

ENLARGED EXISTING ELECTRICAL EQUIPMENT PLAN

SCALE: 1/8" = 1'-0"

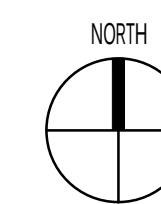
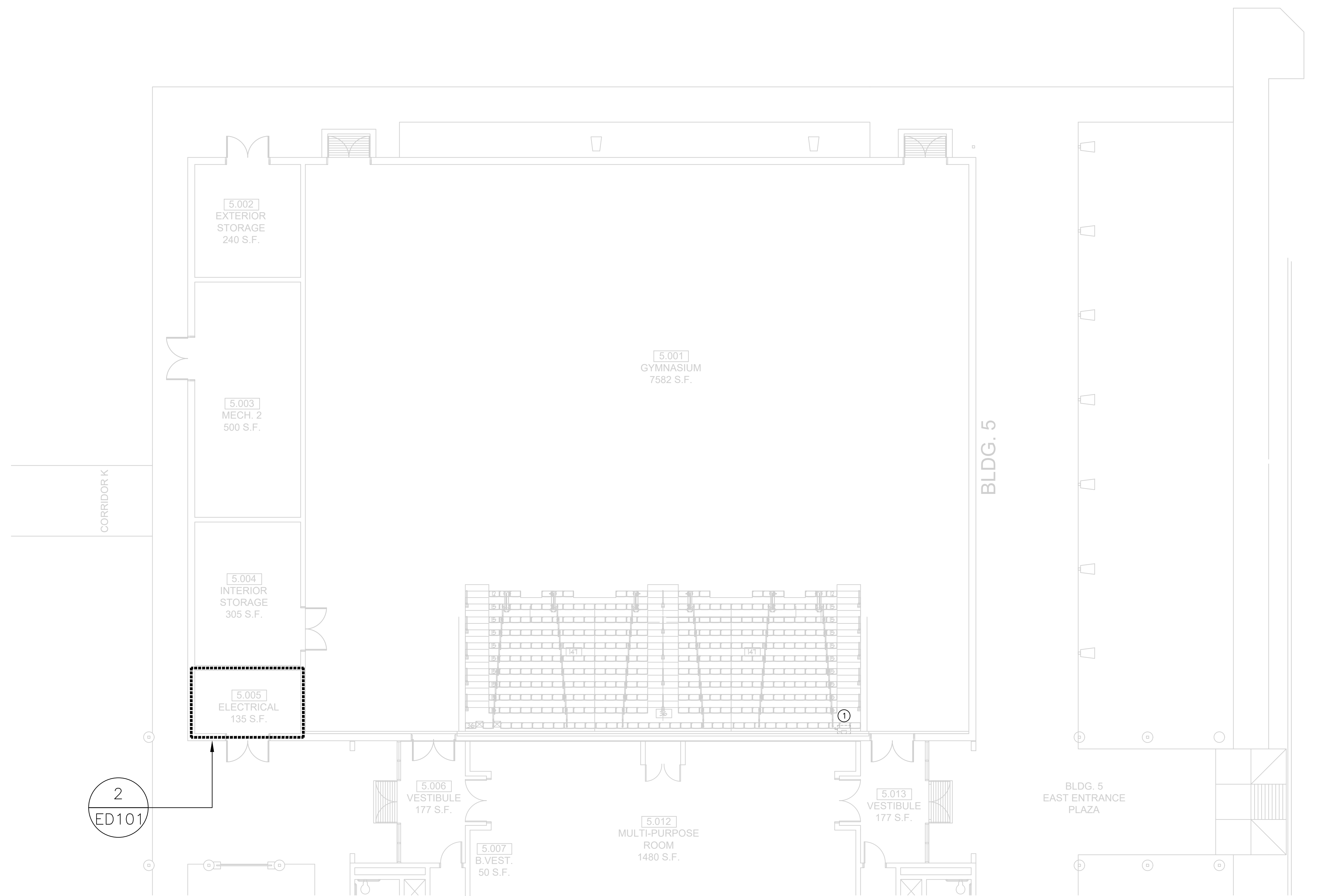


DEMOLITION ELECTRICAL GENERAL NOTES:

- REFERENCE SHEET E001 FOR ELECTRICAL ABBREVIATIONS AND GENERAL NOTES.
- EXISTING INFORMATION SHOWN ON THESE DOCUMENTS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR SHALL FIELD VERIFY ELECTRICAL CIRCUIT HOME RUNS TO ALL ELECTRICAL ITEMS SCHEDULED FOR RENOVATION AND PERFORM THE WORK AS INTENDED AND ILLUSTRATED ON PLANS.
- CONTRACTOR SHALL EXERCISE EXTREME CAUTION WHEN REMOVING/RELOCATING WIRING AND EQUIPMENT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE THAT OTHER WIRING DEVICES, EQUIPMENT, AND LIGHTING FIXTURES THAT MAY BE CONNECTED ON THE SAME CIRCUIT REMAIN OPERATIONAL AND ACTIVE.
- CONTRACTOR SHALL UPDATE ALL ELECTRICAL EQUIPMENT NAMEPLATES AND DIRECTORIES THAT ARE TO BE RENOVATED. CONTRACTOR SHALL PROVIDE UPDATED WRITTEN PANEL SCHEDULES FOR ANY NEW OR MODIFIED LOADS ON AFFECTED PANELBOARD.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF RACEWAY AND CONDUIT AND REPLACE CONDUIT AND/OR RACEWAY IF REQUIRED TO MEET CURRENT CODE REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR PATCHING ANY DAMAGE WHICH MAY OCCUR DURING RENOVATION ACTIVITIES.
- CONTRACTOR SHALL UTILIZE ALL EXISTING CIRCUIT BREAKERS, AS FEASIBLE.
- COORDINATE DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL DEVICES AND CONDUIT RACEWAY SYSTEMS WITH ARCHITECTURAL PHASING DRAWING AND OWNER TO ALLOW NECESSARY SYSTEMS TO REMAIN OPERATIONAL DURING CONSTRUCTION. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE ALL DEMOLITION WITH ALL TRADES INVOLVED.
- ALL EXISTING TO REMAIN ELECTRICAL EQUIPMENT AND ALL ASSOCIATED DEVICES ARE ILLUSTRATED WITH SHADED SOLID LINEWORK.
- ALL EXISTING TO BE DEMOLISHED ELECTRICAL EQUIPMENT AND ASSOCIATED DEVICES ARE ILLUSTRATED WITH SHADED DASHED LINEWORK.

DEMOLITION ELECTRICAL KEY NOTES:

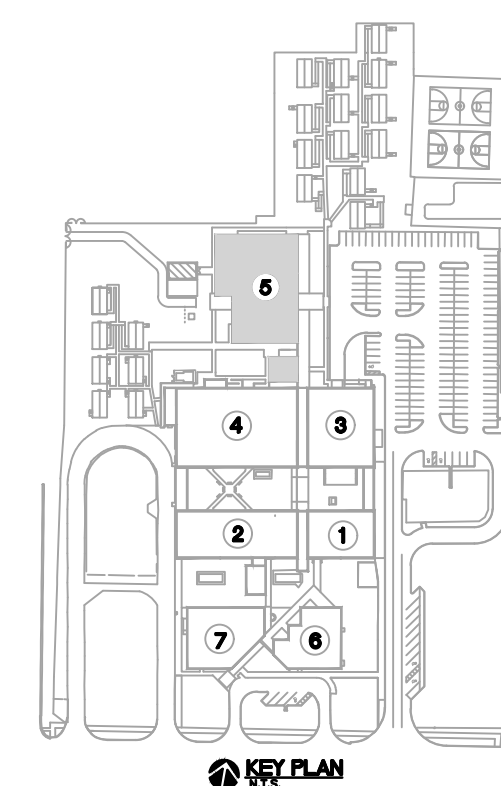
- EXISTING GYM BLEACHER DISCONNECT SWITCH, WIRING DEVICES, AND ALL ASSOCIATED ELECTRICAL CONDUCTORS SHALL BE DEMOLISHED IN ITS ENTIRETY BACK TO SOURCE, UNLESS INDICATED OTHERWISE. ALL ASSOCIATED CONDUIT, RACEWAYS, AND CIRCUIT BREAKERS SHALL BE SALVAGED AS NECESSARY FOR RENOVATION. CONTRACTOR SHALL INSPECT AND DEEM EXISTING CONDUITS AND RACEWAYS CODE COMPLIANT FOR RENOVATION REQUIREMENTS. TURN OVER ALL EXISTING DEMOLISHED ELECTRICAL EQUIPMENT TO OWNER FOR PROPER DISPOSAL UPON REQUEST. PROVIDE UPDATED PANEL DIRECTORIES.
- CONTRACTOR SHALL DEMOLISH EXISTING POWER SERVING THE GYM BLEACHERS FROM AN EXISTING 300A MLO 120/208V 3PH, 4W, PANEL 'SL1A'. CONTRACTOR SHALL DEMOLISH ALL EXISTING CONDUCTORS SERVING THE GYM BLEACHERS IN ITS ENTIRETY BACK TO SOURCE. CONTRACTOR SHALL SALVAGE EXISTING CONDUIT RACEWAY SYSTEM AND REUSE IF DEEMED IN GOOD WORKING CONDITION AND CODE COMPLIANT.



1

ELECTRICAL DEMOLITION FLOOR PLAN

SCALE: 1/8" = 1'-0"



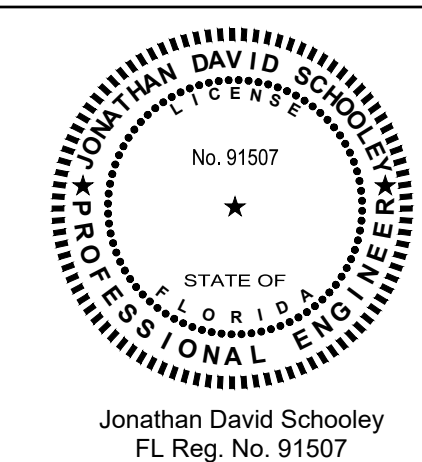
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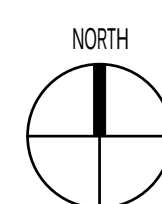
25VCSa

SHEET TITLE

ELECTRICAL FLOOR PLAN

DRAWING NO.

E101



2

ENLARGED EXISTING ELECTRICAL EQUIPMENT PLAN

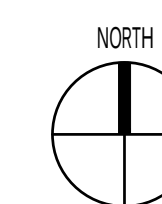
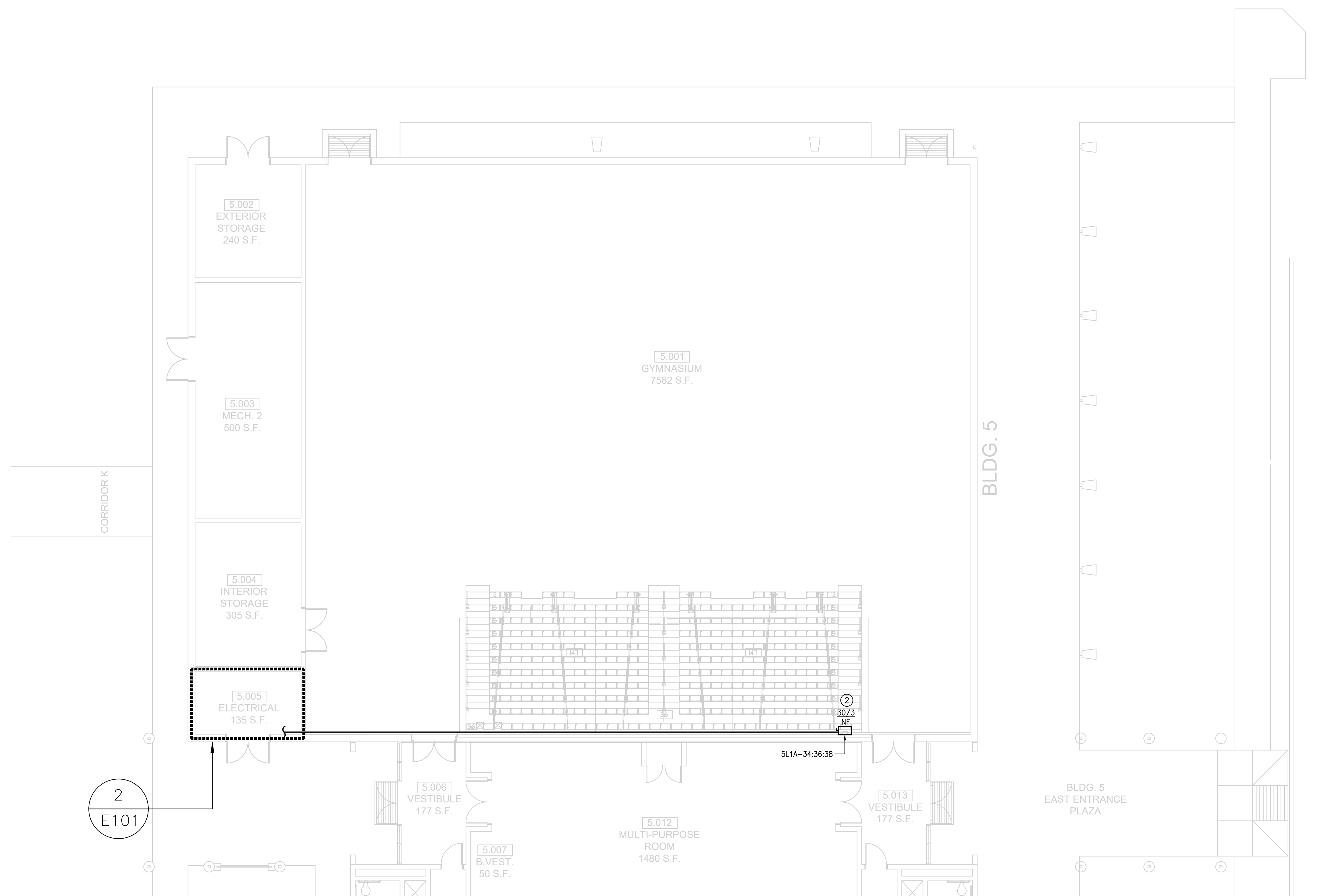
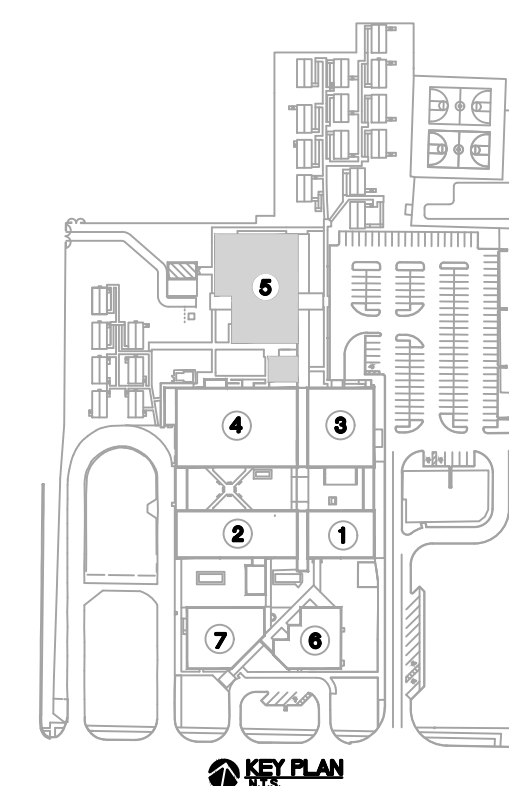
SCALE: 1/8" = 1'-0"

ELECTRICAL GENERAL NOTES:

- REFERENCE SHEET E001 FOR ELECTRICAL ABBREVIATIONS AND GENERAL NOTES.
- CONTRACTOR SHALL VERIFY EXISTING CONDITIONS OF RACEWAY AND CONDUIT AND REPLACE CONDUIT AND/OR RACEWAY IF REQUIRED TO MEET CURRENT CODE REQUIREMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING OR PATCHING ANY DAMAGE WHICH MAY OCCUR DURING RENOVATION ACTIVITIES.
- COORDINATE DEMOLITION AND REMOVAL OF EXISTING ELECTRICAL DEVICES AND CONDUIT RACEWAY SYSTEMS WITH THE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS. COORDINATE ALL DEMOLITION WITH ALL TRADES INVOLVED.
- REFERENCE ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. COORDINATE ALL RENOVATIONS WITH ALL TRADES INVOLVED.

ELECTRICAL KEY NOTES:

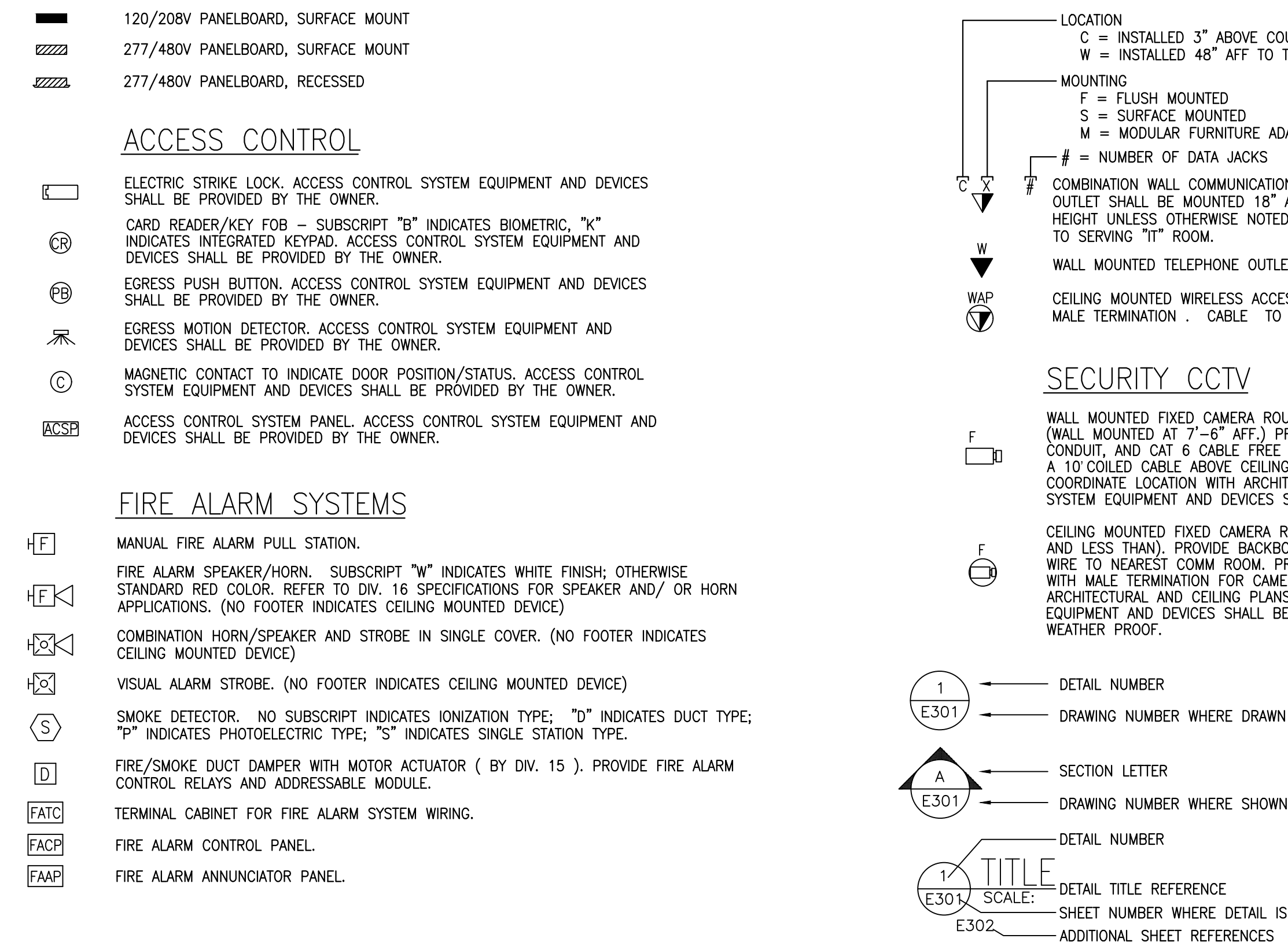
- CONTRACTOR SHALL UTILIZE EXISTING 300A MLO 120/208V 3PH, 4W, PANEL '5L1A' CURRENTLY SERVING POWER TO THE GYM BLEACHERS. CONTRACTOR SHALL PROVIDE POWER SERVING NEW GYM BLEACHERS FROM PANEL '5L1A'. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT RACEWAY SYSTEM AND EXTEND AS NECESSARY. CONTRACTOR SHALL REUSE EXISTING CONDUIT RACEWAY SYSTEM IF DEEMED IN GOOD WORKING CONDITION AND CODE COMPLIANT.
- CONTRACTOR SHALL PROVIDE A DISCONNECT SWITCH, PULL BOX, AND A 20A/3P CIRCUIT BREAKER IN PANEL '5L1A' TO SERVE POWER TO THE NEW GYM BLEACHERS. CONTRACTOR SHALL PROVIDE (3)#10CU(1)#10CU.GND. IN 3/4" RIGID METAL CONDUIT FROM DISCONNECT TO 20A/3P CIRCUIT BREAKER IN PANEL '5L1A', AS INDICATED ON PLANS. COORDINATE ELECTRICAL REQUIREMENTS WITH THE GYM BLEACHER VENDOR PRIOR TO ROUGH IN. CONTRACTOR TO DEEM EXISTING CONDUIT RACEWAY SYSTEM IS IN GOOD WORKING CONDITION AND CODE COMPLIANT. CONTRACTOR SHALL UTILIZE EXISTING CONDUIT RACEWAY SYSTEM AND EXTEND AS NECESSARY. THE GYM BLEACHER ELECTRICAL REQUIREMENTS SHALL BE COORDINATED WITH ALL TRADES PRIOR TO ROUGH INS.



1

ELECTRICAL FLOOR PLAN

SCALE: 1/8" = 1'-0"



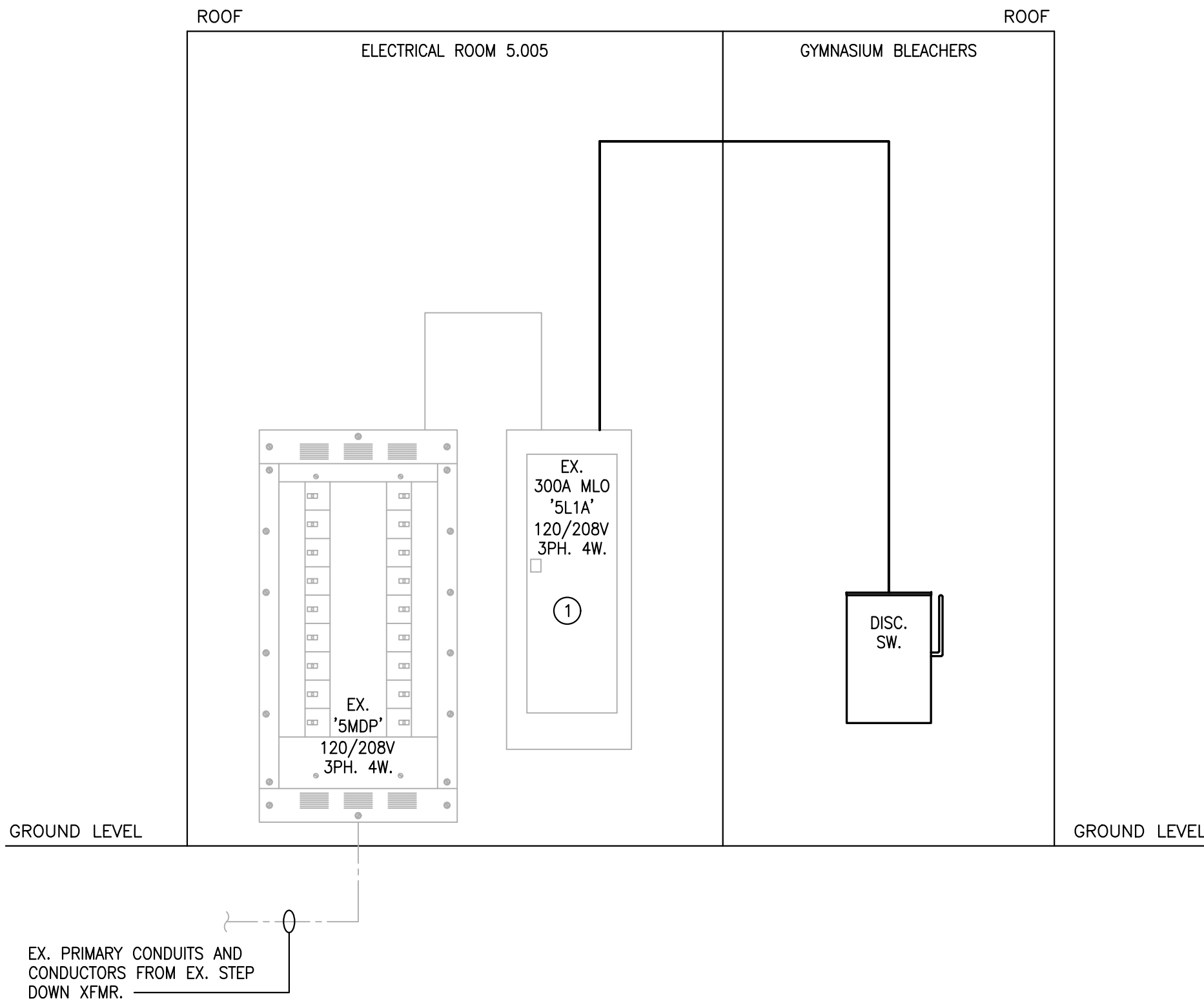
THE WIRE SIZE FOR 120-VOLT, 208-VOLT OR 240-VOLT, SINGLE PHASE, 20 AMP OR 30 AMP BRANCH CIRCUITS SHALL BE SELECTED FROM THE FOLLOWING TABLES:
(SEE RISER DIAGRAM FOR VOLTAGE OF EACH SPECIFIC PROJECT)

120 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP (PER FBC ENERGY CONSERVATION C405.7.3) DISTANCES (FT)					
AMPS	#12	#10	#8	#6	#4
30 AMP CIRCUIT:					
24		69	105	164	254
23		72	109	167	265
22		74	114	179	277
21		79	120	188	290
20		83	126	197	305
19		87	132	207	321
18		92	140	219	338
17		97	148	232	358
20 OR 30 AMP CIRCUIT:					
16	62	103	157	246	381
15	66	108	168	263	405
14	71	118	180	282	435
13	77	127	194	303	469
12	83	138	210	329	508
11	91	150	229	359	554
10	100	165	252	395	610
9	111	180	280	438	677
8	125	205	315	493	762
7	143	230	360	564	871
6	167	275	420	658	1016
5	200	330	505	790	1220
4	250	415	631	987	1525
3	334	550	841	1316	2033
2	501	830	1262	1975	3050
1	1003	1660	2525	3950	6101

208 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP (PER FBC ENERGY CONSERVATION C405.7.3) DISTANCES (FT)					
AMPS	#12	#10	#8	#6	#4
30 AMP CIRCUIT:					
24		126	191	298	457
23		130	199	311	477
22		137	208	325	499
21		144	218	340	523
20		151	229	357	549
19		159	241	376	578
18		168	255	397	610
17		178	270	420	646
20 OR 30 AMP CIRCUIT:					
16	114	189	286	445	686
15	121	201	303	476	731
14	130	215	326	509	783
13	140	232	352	550	844
12	152	251	381	596	915
11	166	274	416	650	998
10	182	301	456	714	1096
9nts	203	336	507	793	1219
8	229	378	572	892	1372
7	262	431	655	1020	1568
6	305	504	762	1190	1829
5	365	604	915	1429	2195
4	457	757	1143	1786	2744
3	610	1008	1524	2382	3658
2	916	1514	2292	3573	5487
1	1833	3028	4581	7148	10974

277 VOLT CIRCUIT WIRING FOR <3% VOLTAGE DROP (PER FBC ENERGY CONSERVATION C405.7.3) DISTANCES (FT)					
AMPS	#12	#10	#8	#6	#4
30 AMP CIRCUIT:					
24		159	242	379	584
23		166	251	384	610
22		170	262	412	637
21		182	276	432	667
20		191	290	453	702
19		200	304	476	738
18		212	322	504	777
17		223	340	534	828
20 OR 30 AMP CIRCUIT:					
16	143	237	361	566	876
15	152	248	386	605	932
14	163	271	414	649	1001
13	177	292	446	697	1079
12	191	317	483	757	1168
11	209	345	527	826	1274
10	230	380	580	911	1403
9	255	414	644	1007	1557
8	288	472	725	1134	1753
7	329	530	828	1297	2003
6	384	633	966	1513	2337
5	460	759	1162	1817	2806
4	575	955	1451	2270	3508
3	768	1265	1934	3027	4676
2	1152	1909	2903	4543	7015
1	2307	3818	5808	9085	14033

2
E
BRANCH CIRCUIT VOLTAGE DROP TABLES
NOT TO SCALE



1
E
EXISTING ELECTRICAL RISER DIAGRAM
NOT TO SCALE

PANEL NAME: 5L1A (REVISED)																		
VOLTAGE: 208 /120 V				PHASE: 3				BUS RATING: 300 A LOCATION: 05-005 ELECTRICAL				A/C RATING: 22 kA						
SIZE: 300 A				WIRE: 4								MOUNTING: SURFACE						
MLO OR MCB: MLO																		
MCBRATING: 100 %																		
NOTES	CKT NO.	DESCRIPTION	CODE	LOAD/PHASE (KVA)			CIRCUIT BREAKER			LOAD/PHASE (KVA)			CODE	DESCRIPTION	CKT NO.	NOTES		
				"A"	"B"	"C"	Trip (A)	Poles	Poles	Trip (A)	"C"	"B"					"A"	
	1	RECEPT RM 5.019, 5.017 OUTSIDE OUTLET	R	0.72			20	1		1	20		0.72	R	OUTSIDE CFT'S	2		
	3	LIGHTS RM 5.012 MULTIPURPOSE	L		1.1		20	1		1	20			R	SPARE	4		
	5	EF-5-2	M			0.64	20	1		1	20	0.18		R	ELECTRIC RM GYM SOUTH WALL OUTLET	6		
	7	EF-5-5	M	0.64			20	1		1	20		1.1	R	BAC GYM	8		
	9	LIGHTS RM 5.019, 5.018	L		1.2		20	1		1	20			R	SPARE	10		
	11	RECEPT RM 5.012	R			0.72	20	1		1	20	0.72		R	RECEPT OUTSIDE CFT'S	12		
	13	SPARE					20	1		1	20		0.85	R	SW/BASKETBALL GOAL	14		
	15	SPARE					20	1		1	20		1.2	L	MASCO LIGHTS	16		
	17	EF-5-1	M			0.48	20	1		1	20	0.85		R	IN VBASKETBALL GOAL	18		
	19	COMP RECEPT RM 5.012 SOUTH WALL	R	0.72			20	1		1	20		0.53	M	CURTAIN	20		
	21	COMP RECEPT RM 5.012 NORTH WALL	R		0.72		20	1		1	20		0.85	R	NE BASKETBALL GOAL	22		
	23	RECEPT RM 5.009	R			0.72	20	1		1	20	0.85		R	E BASKETBALL GOAL	24		
	25	RECEPT RM 5.009, 5.009A	R	0.72			20	1		1	20		0.85	R	SE BASKETBALL GOAL	26		
	27	RECEPT RM 5.019	R		0.72		20	1		2	30			SPARE	28			
	29	FACEP	L			0.64	20	1		-	--			----	30			
	31	DATARACK RECEPT	R	0.4			20	1		1	20		0.76	R	SCOREBOARD RECEPTACLE	32		
	33	RECEPT RM 5.019	R		0.54		20	1		3	20		0.6	M	GYM BLEACHERS	34	1	
	35	LIGHTS RM 5.013, 5.014, 5.016, 5.016A	L			1.04	20	1		-	--	0.6		M	----	36	1	
	37	LIGHTS RM 5.015, 5.015A	L	1.1			20	1		-	--		0.6	M	----	38	1	
	39	LIGHTS RM 5.009, 5.008	L		1.5		20	1		1	20		0.72	R	RECEPT RM 5.012	40		
	41	LIGHTS RM 5.003, 5.002	L			1.4	20	1		1	20	0.72		R	CHILLERY YARD RECEPT	42		
				TOTALS:	4.3	5.78	5.64			TOTALS:	3.92	3.37	5.41					
				TOTAL PHASE A KVA: 9.71 KVA			PANEL MAX KVA: 108.08 KVA			TOTAL DEMAND KVA: 108.08 KVA			DEMAND CODES: (BLANK FOR STANDARD) H: HVAC K: KITCHEN L: LIGHTING, LONG-CONTINUOUS M: MOTOR R: RECEPTACLE					
				TOTAL PHASE B KVA: 9.15 KVA			TOTAL CONNECTED KVA: 28.42 KVA			TOTAL DEMAND KVA: 28.14 KVA								
				TOTAL PHASE C KVA: 9.56 KVA			TOTAL CONNECTED AMPS: 78.89 A			TOTAL DEMAND AMPS: 78.11 A								

NOTES:
1. CONTRACTOR SHALL PROVIDE A NEW 20A/3P CIRCUIT BREAKER AS NECESSARY FOR NEW GYM BLEACHERS.

ELECTRICAL RISER GENERAL NOTES:

- REFERENCE SHEET E001 FOR ELECTRICAL ABBREVIATIONS AND GENERAL NOTES.
- REFERENCE ALL TRADE DRAWINGS AND ELECTRICAL SPECIFICATIONS FOR ADDITIONAL INFORMATION.
- REFERENCE ALL TRADE DRAWINGS AND COORDINATE EXACT EQUIPMENT LOCATIONS AND CLEARANCES.
- CONTRACTOR SHALL VISIT AND CAREFULLY EXAMINE THOSE PORTIONS OF THE STRUCTURE AND SITE AFFECTED BY THIS WORK BEFORE SUBMITTING PROPOSALS, SO AS TO BECOME FAMILIAR WITH EXISTING CONDITIONS AND DIFFICULTIES THAT WILL AFFECT EXECUTION OF THE WORK. SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH EXAMINATION HAS BEEN MADE AND LATER CLAIMS FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED WILL NOT BE RECOGNIZED.
- REFERENCES TO INDIVIDUAL ELECTRICAL EQUIPMENT BY TAG NUMBER ARE PROVIDED FOR THE CONTRACTOR'S CONVENIENCE ONLY. THE EXISTING CONDITIONS ARE BASED ON REVIEWS OF EXISTING DRAWINGS AND FIELD OBSERVATIONS. ALL CIRCUITS SHALL BE VERIFIED PRIOR TO START OF THE WORK. CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY VARIATIONS IN EXISTING CONDITIONS FROM THOSE SHOWN ON THE DRAWINGS.
- CLOSE ALL UNUSED CONDUIT KNOCKOUTS IN BOXES AND PANEL BOARDS WITH KNOCKOUT SNAP-IN SEALS. CLOSE ALL OPEN AND UNUSED PANEL BOARD CIRCUIT BREAKER SPACES WITH FILLER PLATES. FURNISH AND INSTALL A COLOR CODED PULL STRING IN ALL CONDUITS "SPARED" BY THIS CONSTRUCTION. LABEL SPARE CIRCUIT BREAKERS AS "SPARE". TAG "SPARE" CONDUITS AT BOTH END TERMINATIONS, IDENTIFYING THE OTHER END TERMINATION.
- ELECTRICAL CONTRACTOR SHALL TRACE BRANCH CIRCUITS TO IDENTIFY CIRCUITS SERVING AREA WITHIN SCOPE OF WORK. PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULES AT COMPLETION OF WORK.
- CONTRACTOR IS RESPONSIBLE TO PROVIDE AVAILABLE FAULT CURRENT FIELD MARKING IN ACCORDANCE WITH NEC 110.24.
- ALL EQUIPMENT TERMINATIONS IN ALL EQUIPMENT SHALL BE RATED FOR 75°C OR HIGHER. 110.14(C)(1)(a)(3) "CONDUCTORS WITH HIGHER TEMPERATURE RATINGS (75°C REQUIRED MINIMUM) IF THE EQUIPMENT IS LISTED AND IDENTIFIED FOR USE WITH SUCH CONDUCTORS. NEC 110.14(C)(1)(3) AND NEC 110.14(C)(1) HAS REQUIREMENTS WHEN LUGS ARE ONLY RATED FOR 60°C, HOWEVER THESE CONTRACT DOCUMENTS REQUIRE ALL EQUIPMENT LUGS TO BE 75°C OR HIGHER. ADDITIONALLY, ALL CONDUCTORS SHALL BE RATED 90°C PER SPEC.
- GENERAL CONTRACTOR AND ALL SUB CONTRACTORS OR INSTALLERS SHALL REVIEW BOTH ARCHITECTURAL AND ALL ENGINEERED DRAWINGS AND SCHEDULES PRIOR TO BID, PROCUREMENT OR COMMENCING ANY WORK. ANY DISCREPANCIES BETWEEN THE DRAWINGS FOR FIXTURE TYPE, FINISH, QUANTITY, SIZE, LOCATION, TYPE OF INSTALLATION, ACCESSORIES, ETC. SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING. WITHOUT FORMAL AUTHORIZATION, THE ARCHITECT AND OWNER RESERVE THE RIGHT TO REQUIRE MORE RESTRICTIVE SPECIFICATION.
- ELECTRICAL CONTRACTOR SHALL TRACE BRANCH CIRCUITS TO IDENTIFY CIRCUITS SERVING AREA WITHIN SCOPE OF WORK. PROVIDE UPDATED TYPE WRITTEN PANEL SCHEDULES AT COMPLETION OF WORK.
- ALL SYSTEMS SHALL BE TESTED IN SERVICE AFTER COMPLETION OF THE CONTRACT AND MADE COMPLETE.

DEMOLITION ELECTRICAL KEY NOTES:

- CONTRACTOR SHALL UTILIZE EXISTING 300A MLO 120/208V 3PH. 4W. PANEL "5L1A" CURRENTLY SERVING POWER TO THE EX. GYM BLEACHERS WITH 30A/3P CIRCUIT BREAKER. CONTRACTOR SHALL DEMOLISH ALL EXISTING CONDUCTORS SERVING GYM BLEACHERS IN ITS ENTIRETY BACK TO SOURCE. CONTRACTOR SHALL SALVAGE EXISTING CONDUIT RACEWAY SYSTEM AND REUSE IF DEEMED IN GOOD WORKING CONDITION AND CODE COMPLAINT.

REVISIONS

DOCUMENT HISTORY

DESCRIPTION

NO.

DATE

DESCRIPTION

NO.

DATE

DESCRIPTION

NO.

DATE

DESCRIPTION

NO.

DATE

DESCRIPTION

NO.