PITTSGROVE TOWNSHIP SCHOOL DISTRICT

1076 ALMOND ROAD
SALEM COUNTY, NEW JERSEY, 08318

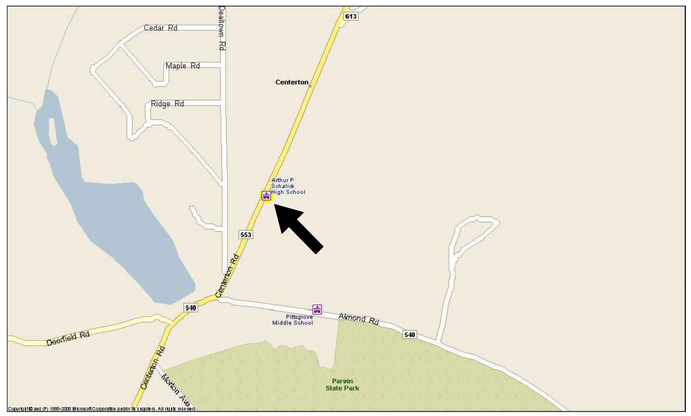
ARTHUR P. SCHALICK HIGH SCHOOL

2025 NEW FIELD HOUSE

718 CENTERTON ROAD, PITTSGROVE, NJ 08318

PROJECT NUMBER: 24–74
CONSTRUCTION TYPE: 5B
USE GROUP: E

AERIAL



LOCATION MAP

DESIGN CODES:

INTERNATIONAL BUILDING CODE/2021/ NJ EDITION
INTERNATIONAL MECHANICAL CODE/2021
INTERNATIONAL FUEL GAS CODE/2021
NATIONAL STANDARD PLUMBING CODE/2021
ASHRAE 90.1–2019 ENERGY STANDARD
NATIONAL ELECTRICAL CODE (NFPA 70)/2020
INTERNATIONAL FIRE CODE/2021
ELEVATOR SUBCODE: (NJAC 5:23–12)
: AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
BARRIER FREE SUBCODE: ICC/ANSI A117.1–2017
N.J. REHAB CODE NJAC 5:23–6, NJUCC. SUBCHAPTER 6.
NJ UCC BULLETIN 00–3: PUBLIC SCHOOLS–FACILITY PLANNING STANDARDS & UCC ENHANCEMENTS

CONSTRUCTION MANAGER:
GREYHAWK
2000 MIDLANTIC DRIVE SUITE 210, MT. LAUREL, N.J. 08054
PHONE: 856–722–1800

SITE ENGINEER:
FRALINGER ENGINEERING PA
629 SHILOH PIKE, BRIDGETON, N.J. 08302
PHONE: 856–451–2990

MECHANICAL, PLUMBING & ELECTRICAL ENGINEER:
MULHERN ENGINEERS
321 SOUTH YORK ROAD, HATBORO, PA 19040
PHONE: 215–293–9900

GARRISON ARCHITECTS
A Professional Corporation of Architects and Planners
713 CREEK ROAD, BELLMAWR, NEW JERSEY 08031 (856) 396-6200

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ISSUED FOR BID: 04/21/2025

SITE PLAN
FOR
ARTHUR P. SCHALICK HIGH SCHOOL
FIELD HOUSE PLAN

PITTSGROVE TOWNSHIP
SALEM County, New Jersey

PROJECT LOCATION MAP

SCALE : 1"=150'

SITE PLAN NOTES

1. PRIOR TO BEGINNING ANY WORK ON THIS SITE, THE CONTRACTOR SHALL CONDUCT A FIELD INSPECTION OF THE SITE AND CONFIRM THAT HORIZONTAL AND VERTICAL INFORMATION SHOWN HEREON IS ACCURATE. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT ANY NECESSARY ADJUSTMENTS TO THE PLAN CAN BE MADE.
2. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE CLEARING AND SITE RESTORATION AS PER CONTRACT SPECIFICATIONS AND/OR REQUIREMENTS OF THE PROJECT ENGINEER.
3. BEFORE EXCAVATION IN PROJECT AREA, THE CONTRACTOR IS TO VERIFY THE LOCATION OF ANY UNDERGROUND UTILITY FACILITIES (GAS MAINS, ELECTRIC LINES, TELEPHONE LINES, WATER OR SEWER MAINS, ETC.). SHOULD UNDERGROUND STRUCTURES OR FACILITIES INTERFERE WITH PROJECT CONSTRUCTION, THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK. THE CONTRACTOR SHALL CONTACT "ONE CALL" A MINIMUM OF 3 DAYS PRIOR TO COMMENCEMENT OF ANY EXCAVATION FOR ACCURATE FIELD LOCATION, FOR MARKOUT CALL 1-800-272-1000.
4. NJDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2019 AND CURRENT SUPPLEMENTARY SPECIFICATIONS & NJDOT STANDARD CONSTRUCTION DETAIL SHEETS, 2016 AND CURRENT BASELINE DOCUMENT CHANGES THERETO GOVERN ALL CONSTRUCTION FOR THIS PROJECT.
5. THIS DRAWING DOES NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.
6. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
7. ELEVATION DATUM - NGVD 1988 DATUM.
8. ALL LINE STRIPING SHALL BE PLACED IMMEDIATELY AFTER PAVEMENT IS COMPLETED (SAME DAY). IF THIS IS NOT POSSIBLE, THE CONTRACTOR SHALL PLACE AND MAINTAIN "UNMARKED PAVEMENT" SIGNS ALONG THE FULL LENGTH OF PROJECT ALONG WITH TEMPORARY CENTERLINE REFLECTORS.
9. ALL PROPOSED HANDICAP RAMPS SHALL MEET ADA REGULATIONS.
10. THIS PLAT DOES NOT SHOW OR INTEND TO SHOW ANY NONRECORDED EASEMENTS OR RIGHTS-OF-WAY.
11. ONLY COPIES FROM THE ORIGINAL MAP OF THIS PLAT, CLEARLY MARKED WITH THE APPROPRIATE PROFESSIONAL'S EMBOSSED SEAL, SHALL BE CONSIDERED TO BE VALID COPIES.
12. THE ORIGINAL OF THIS DRAWING IS THE PROPERTY OF FRALINGER ENGINEERING PA.

SHEET INDEX

ISSUED FOR BID: 4-21-2025

ROBERT A. MULFORD, P.E., C.M.E.
PROFESSIONAL ENGINEER N.J. LIC. NO. 24GE04070400
bmulford@fralinger.com

DATE

NO.	DATE	REVISION	BY
2	4/16/2025	FIELDHOUSE REVISIONS	RAM
1	12/09/2024	PERFECTED PLAN	TJ

Fralinger Engineering PA
CONSULTING ENGINEERS • PLANNERS • LAND SURVEYORS • ENVIRONMENTAL SERVICES
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Bridgeton, NJ 08302
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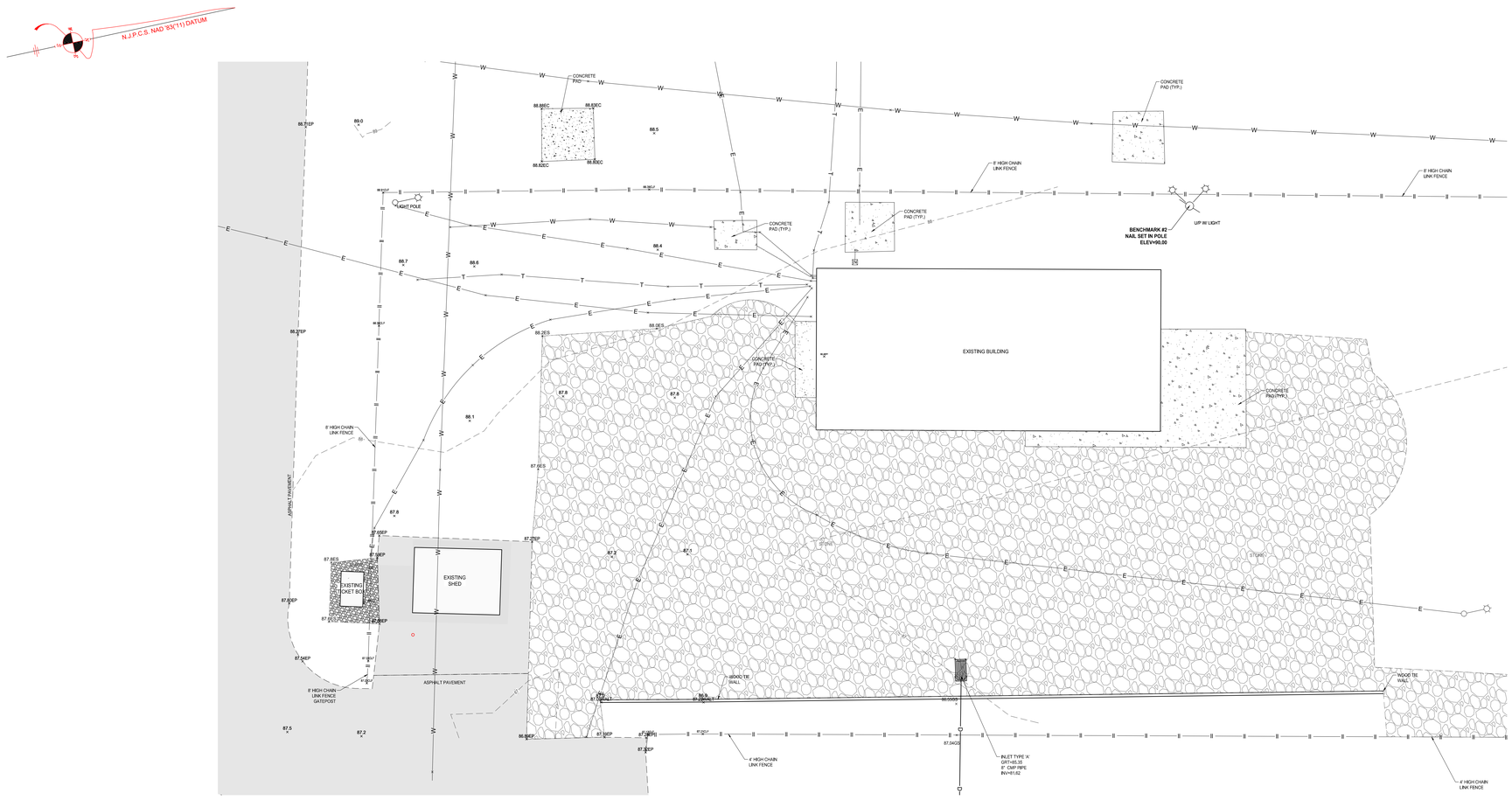
COVER SHEET
PREPARED FOR
ARTHUR P. SCHALICK HIGH SCHOOL

MUNICIPALITY:	PITTSGROVE TOWNSHIP
COUNTY:	SALEM COUNTY
STATE:	NEW JERSEY
SCALE:	AS SHOWN
PROJECT #:	03483.19
PROJECT FILE:	03483.19 Bleachers_Revised_4-8-25.dwg
DATE:	11/11/24
DRAWN BY:	TJ
CHECKED BY:	

GENERAL NOTES

1. TAX MAP REFERENCE:
   BLOCK 1701
   LOT 7
2. LIMITED FIELD TOPOGRAPHY PERFORMED ON 07/31/24 BY FRALINGER ENGINEERING, PA. (NAVD '88).
3. VERTICAL DATUM IS BASED ON NAVD '88(GEOID18).
4. HORIZONTAL DATUM IS BASED ON NEW JERSEY PLANE COORDINATE SYSTEM GRID VALUES IN U.S. SURVEY FEET, NAD '83('11).
5. PROJECT DATUMS WERE ESTABLISHED BY KEYNET RTK GPS.
6. COORDINATE VALUES SHOWN ON THIS PLAN HAVE NAD '83('11) & NAVD '88(GEOID18) 2DRMS NETWORK ACCURACY OF ±0.03' HORIZONTAL AND ±0.06' VERTICAL. LOCAL ACCURACY IS ±0.02' HORIZONTAL AND ±0.02' VERTICAL 2DRMS.



HORIZONTAL SCALE
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

LEGEND

25	EXISTING MAJOR CONTOUR
23	EXISTING MINOR CONTOUR
63.5	EXISTING SPOT ELEVATION
EC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
WALT	TOP OF WALL
	CHAIN LINK FENCE
	EDGE OF PAVEMENT
	EDGE OF STONE
	UTILITY POLE
E	UNDERGROUND ELECTRIC
T	UNDERGROUND TELECOM
W	UNDERGROUND WATER
UKN	UNDERGROUND UNKNOWN UTILTY

ISSUED FOR BID: 4-21-2025

THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. THIS CORPORATION AND/OR ITS EMPLOYEES ARE NOT LIABLE FOR ERRORS OR OMISSIONS RESULTING FROM THIS CONDITION.

NO FRESHWATER WETLANDS, AS DEFINED BY THE NEW JERSEY "FRESHWATER WETLANDS PROTECTION ACT" (N.J.S.A. 13:9B-1), ARE INTENDED TO BE SHOWN OR DELINEATED AS PART OF THIS SURVEY.

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ONLY COPIES FROM THE ORIGINAL MAP OF THIS PLAT, CLEARLY MARKED WITH THE APPROPRIATE PROFESSIONAL'S EMBOSSED SEAL, SHALL BE CONSIDERED TO BE VALID COPIES.

GUY M. DE FABRITES, P.L.S., P.P.
PROFESSIONAL LAND SURVEYOR N.J. LIC. NO. 24GS04644200
PROFESSIONAL PLANNER N.J. LIC. NO. 33LI00608600
gdefabrites@fralinger.com

DATE

NO.	DATE	REVISION	BY
2.	4/16/2025	FIELDHOUSE REVISIONS	RAM
1.	12/9/2024	PERFECTED PLAN	TJ

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Bridgeton, NJ 08302
Phone: (856) 451-6650
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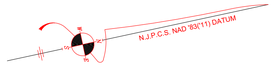
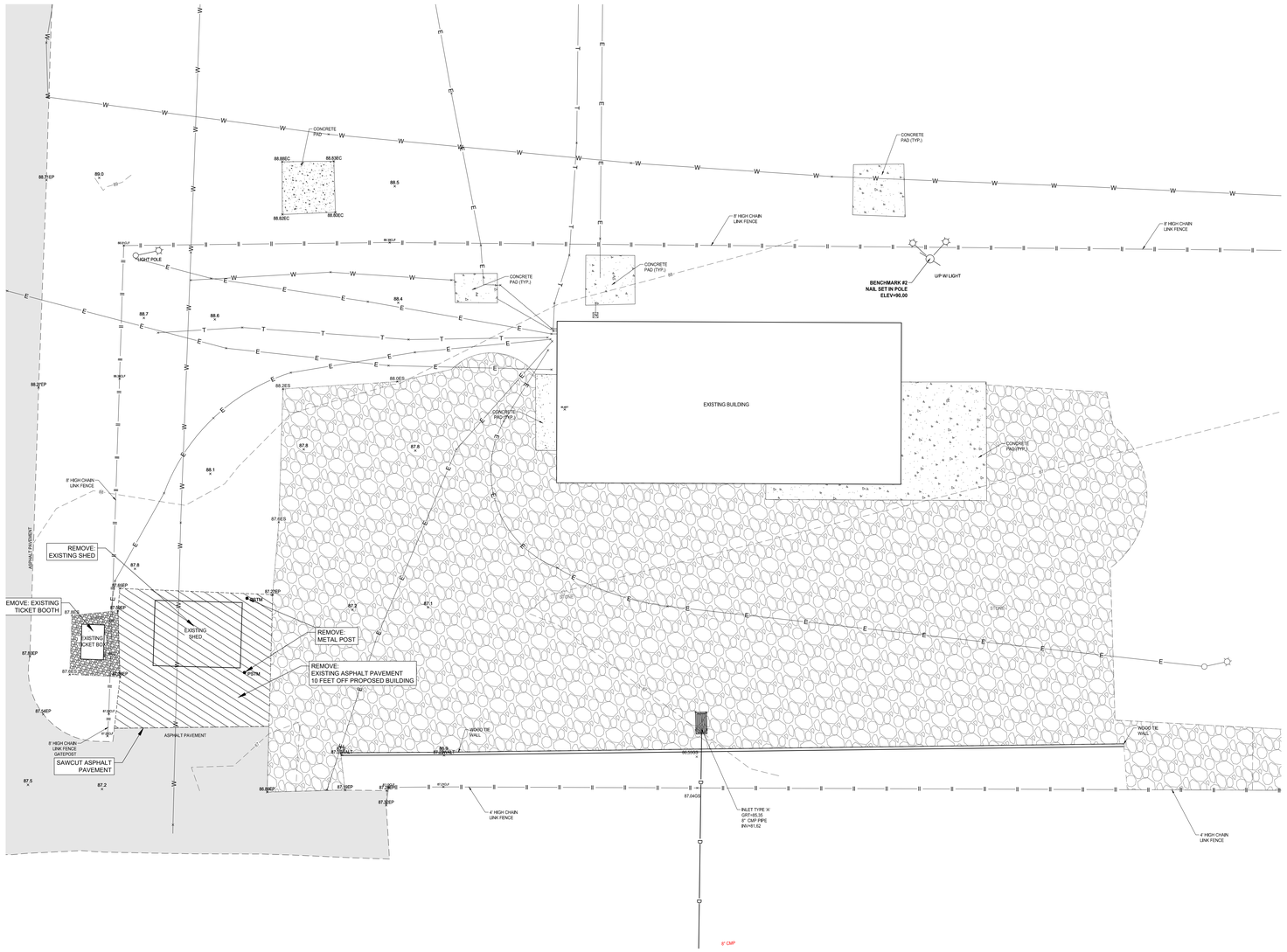
www.fralinger.com

LIMITED TOPOGRAPHIC SURVEY (FIELD HOUSE)
PREPARED FOR
ARTHUR P. SCHALICK HIGH SCHOOL

MUNICIPALITY:	PITTSGROVE TOWNSHIP
COUNTY:	SALEM COUNTY
STATE:	NEW JERSEY
SCALE:	1" = 10'
PROJECT #:	03463.19
DRAWING:	03463.19 Bleachers_Revised_4-9-25.dwg
DATE:	11/12/24
DRAWN BY:	TJ
CHECKED BY:	





DEMOLITION NOTES

1. CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO DISCONNECT OR TO CONFIRM DISCONNECTION OF EXISTING UTILITIES AT THE SITE PRIOR TO START OF ANY DEMOLITION WORK. ALL UTILITY SERVICES MUST REMAIN IN SERVICE FOR REMAINING PORTION OF THE FACILITY.

2. THE CONTRACTOR SHALL REMOVE ALL DEBRIS, RUBBISH AND OTHER MATERIALS RESULTING FROM THE DEMOLITION OPERATION IN A LEGAL MANNER.

3. BEFORE EXCAVATION IN PROJECT AREA, THE CONTRACTOR SHALL VERIFY THE LOCATION OF ANY UNDERGROUND UTILITIES. SHOULD ANY UNDERGROUND UTILITIES INTERFERE WITH DEMOLITION, THE ENGINEER SHALL BE NOTIFIED BEFORE PROCEEDING WITH WORK. THE CONTRACTOR SHALL CONTACT "ONE-CALL" 1-800-272-1000 A MINIMUM OF 3 DAYS PRIOR TO ANY EXCAVATION FOR ACCURATE FIELD MARKOUT.

4. ALL EXISTING UTILITY POLES ARE TO REMAIN UNLESS NOTED TO BE REMOVED OR RELOCATED.

5. PRIOR TO BEGINNING ANY WORK ON THIS SITE, THE CONTRACTOR SHALL CONDUCT A FIELD INSPECTION OF THE SITE AND CONFIRM THAT HORIZONTAL AND VERTICAL INFORMATION SHOWN HEREON IS ACCURATE. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT ANY NECESSARY ADJUSTMENTS TO THE PLAN CAN BE MADE.

6. THE CONTRACTOR IS RESPONSIBLE FOR ALL SITE CLEARING AND SITE RESTORATION AS PER CONTRACT SPECIFICATIONS AND/OR REQUIREMENTS OF THE PROJECT ENGINEER.

7. ALL CONSTRUCTION TO BE PERFORMED IN ACCORDANCE WITH N.J.D.O.T. 2019 STANDARD SPECIFICATIONS AND SUPPLEMENTARY SPECIFICATIONS FOR THIS PROJECT.

8. THIS DRAWING DOES NOT INCLUDE THE NECESSARY COMPONENTS FOR CONSTRUCTION SAFETY.

9. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.

LEGEND

25	EXISTING MAJOR CONTOUR
23	EXISTING MINOR CONTOUR
63.5	EXISTING SPOT ELEVATION
EC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
WALT	TOP OF WALL
	CHAIN LINK FENCE
	EDGE OF PAVEMENT
	EDGE OF STONE
	UTILITY POLE
E	UNDERGROUND ELECTRIC
T	UNDERGROUND TELECOM
W	UNDERGROUND WATER
UKN	UNDERGROUND UNKNOWN UTILITY

HORIZONTAL SCALE
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

ISSUED FOR BID: 4-21-2025

ROBERT A. MULFORD, P.E., C.M.E.
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DATE

NO.	DATE	FIELDHOUSE REVISIONS	BAM
2.	4/16/2025	PERFECTED PLAN	TJ
1.	12/09/2024	REVISION	BY

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DEMOLITION PLAN (FIELD HOUSE)
PREPARED FOR
ARTHUR P. SCHALICK HIGH SCHOOL

MUNICIPALITY:	PITTSGROVE TOWNSHIP
COUNTY:	SALEM COUNTY
STATE:	NEW JERSEY
SCALE:	1" = 10'
PROJECT:	02463.19
DWG FILE:	02463.19 Bleachers_Revised_4-8-25.dwg
DATE:	11/15/24
DRAWN BY:	TJ
CHECKED BY:	

LEGEND

25	EXISTING MAJOR CONTOUR
23	EXISTING MINOR CONTOUR
63.5	EXISTING SPOT ELEVATION
EC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
WALT	TOP OF WALL
	CHAIN LINK FENCE
	EDGE OF PAVEMENT
	EDGE OF STONE
	UTILITY POLE
CO	PROPOSED CLEAN OUT
E	UNDERGROUND ELECTRIC
T	UNDERGROUND TELECOM
W	UNDERGROUND WATER
UKN	UNDERGROUND UNKNOWN UTILTY

SITE PLAN NOTES

1. THE PURPOSE OF SITE PLAN, CONSTRUCT PROPOSED FIELD HOUSE, SANITARY SEWER PUMP STATION, WITH SANITARY SEWER AND WATER CONNECTIONS.
2. PRIOR TO BEGINNING ANY WORK ON THIS SITE, THE CONTRACTOR SHALL CONDUCT A FIELD INSPECTION OF THE SITE AND CONFIRM THAT HORIZONTAL AND VERTICAL INFORMATION SHOWN HEREON IS ACCURATE. ANY DISCREPANCY SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY SO THAT ANY NECESSARY ADJUSTMENTS TO THE PLAN CAN BE MADE.
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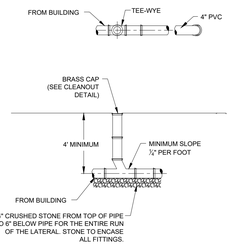
7. ALL CONSTRUCTION MUST BE DONE IN COMPLIANCE WITH THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 AND ALL RULES AND REGULATIONS THERETO APPURTENANT.
8. ALL CONCRETE SIDEWALK, CURB, OR PAVEMENT DISTURBED WITHIN ROAD RIGHT-OF-WAYS TO BE REPAIRED IN KIND.
9. ALL STOP SIGNS, OTHER SIGNS AND/OR SAFETY DEVICES WHICH ARE REMOVED DURING CONSTRUCTION ARE TO BE REINSTALLED AT THE PROPER LOCATION.
10. PRIVATE WASTE REMOVAL COMPANY TO BE CONTRACTED FOR REMOVAL OF SOLID WASTE.
11. EXISTING UTILITIES TO BE EXTENDED OR RELOCATED TO SITE IN ACCORDANCE WITH LOCAL UTILITY COMPANY REQUIREMENTS.
12. ALL AREAS DISTURBED DURING CONSTRUCTION TO BE RESTORED WITH 5" THICK TOPSOIL, FERTILIZED, AND SEEDED IN ACCORDANCE WITH DETAILS FOR SOIL EROSION.

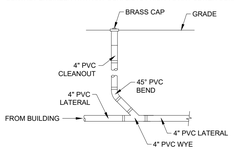


SECTION

STANDARD CONNECTION DETAIL

(NO SCALE)

NOTE:
REFER TO UTILITY PLAN FOR PIPE SIZES, VERIFY WITH PLUMBING PLANS. CONTACT ENGINEER WITH ANY CONFLICTS PRIOR TO ANY SEWER CONNECTION WORK.



NOTE: ALL PVC TO BE SDR-35

SANITARY SEWER CLEANOUT DETAIL

(NO SCALE)

NOTE:
INSTALL TRACER ALONG TOP OF SEWER LATERAL FROM MAIN TO INSPECTION RISER TO PERMIT DETECTION WITH A MAGNETOMETER.

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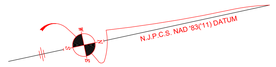
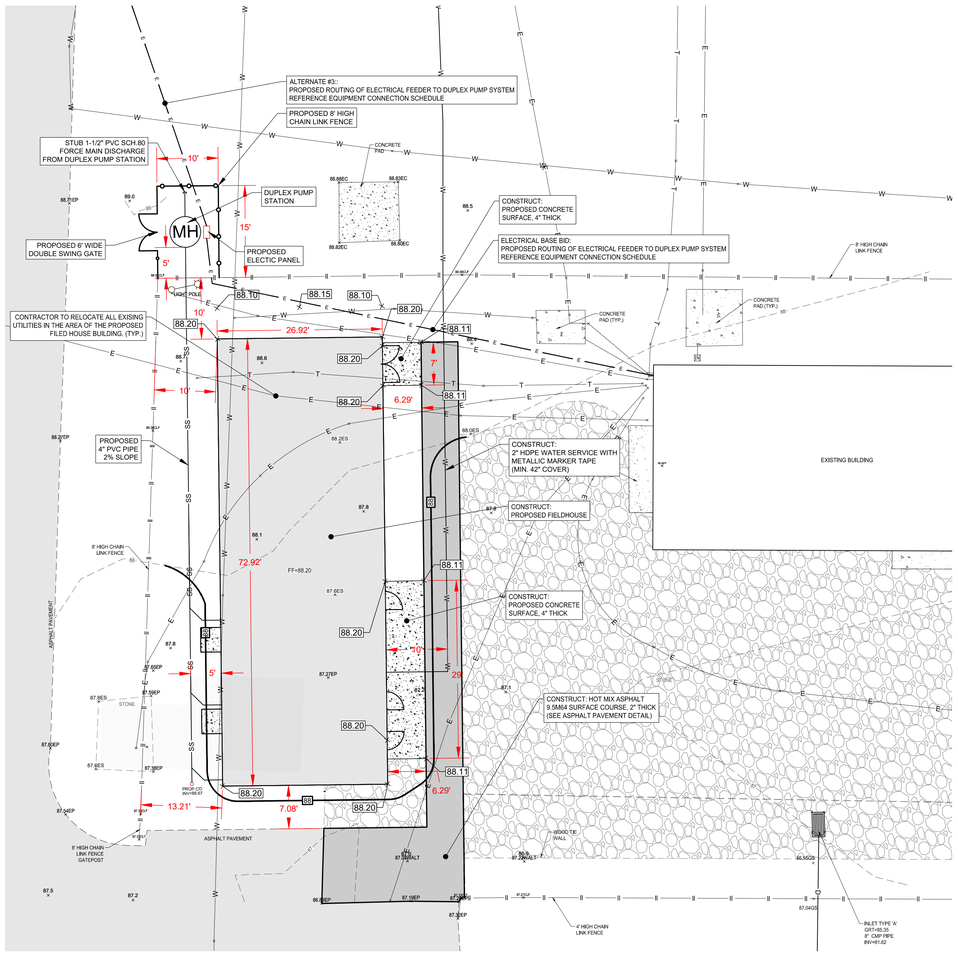
UTILITY CONSTRUCTION NOTES

1. CONTRACTOR IS RESPONSIBLE TO RELOCATE ALL UNDERGROUND UTILITIES IN THE AREA OF THE PROPOSED FIELD HOUSE BUILDING. INCLUDING BUT NOT LIMITED TO ALL UNDERGROUND UTILITIES, WATER LINES, TELECOM, ELECTRICAL.





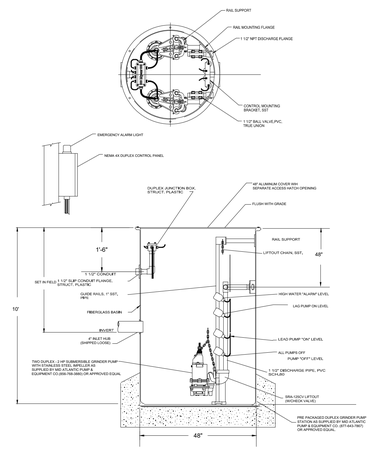
HORIZONTAL SCALE
10 5 0 10 20
(IN FEET)
1 inch = 10 ft.

SANITARY SEWER NOTES

1. ALL SANITARY SEWER MAINS SHALL BE CONSTRUCTED USING SDR-35 PVC PIPE. FORCE MAIN TO BE SCHEDULE 80 PVC.
2. WHERE SANITARY SEWER CROSSES THE WATER MAIN, THE SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" VERTICAL SEPARATION BELOW THE WATER MAIN. WHERE THIS IS NOT POSSIBLE, THE SANITARY SEWER SHALL BE ENCASED IN CONCRETE 10 EACH SIDE OF THE UTILITY CROSSING.
3. PVC SEWER MAINS AND WATER MAINS SHALL BE SEPARATED BY A DISTANCE OF AT LEAST 10' HORIZONTALLY AND/OR 18 INCHES VERTICALLY OR SEWER SHALL UTILIZE EITHER DUCTILE IRON PIPING OR CONCRETE ENCASED PVC PIPING.
4. ALL SANITARY SEWERS SHALL BE DESIGNED TO MEET THE NEW JERSEY DEPARTMENT OF ENVIRONMENTAL PROTECTION'S SLOPE STANDARDS AT N.J.A.C. 7:14A-23.6(b).
5. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH CURRENT O.S.H.A. STANDARDS.
6. CONTRACTOR TO USE 200 PSI FLOWABLE FILL ENCASEMENT MATERIAL FOR ALL SANITARY SEWER MAINS INSTALLED ABOVE WATER SERVICES.
7. SANITARY SEWER MANHOLE LID COVERS SHALL BE MARKED SANITARY.
8. TRACER WIRE TO BE INSTALLED OVER NEW FORCE MAIN. AMPLE TRACER WIRE TO BE LEFT IN THE DISCHARGE MANHOLE.
9. ALL FORCE MAINS AND LATERALS SHALL HAVE A MINIMUM OF 42" OF COVER.

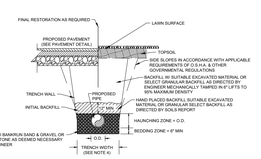
WATER SERVICE CONSTRUCTION NOTES

1. WATER SERVICE CONSTRUCTION SHALL BE IN ACCORDANCE WITH AWWA C-600 STANDARDS.
2. WHERE SANITARY SEWER CROSSES THE WATER SERVICE, THE SANITARY SEWER SHALL BE LOCATED A MINIMUM OF 18" VERTICAL SEPARATION BELOW THE WATER MAIN. WHERE THIS IS NOT POSSIBLE, THE SANITARY SEWER SHALL BE ENCASED IN CONCRETE 10 EACH SIDE OF THE UTILITY CROSSING.
3. PVC SEWER MAINS AND WATER SERVICE SHALL BE SEPARATED BY A DISTANCE OF AT LEAST 10' HORIZONTALLY AND/OR 18 INCHES VERTICALLY OR SEWER SHALL UTILIZE EITHER DUCTILE IRON PIPING OR CONCRETE ENCASED PVC PIPING.
4. WATER SERVICE SHALL BE TESTED AFTER THE INSTALLATION OF ALL WATER SERVICES.



PUMP STATION DETAIL

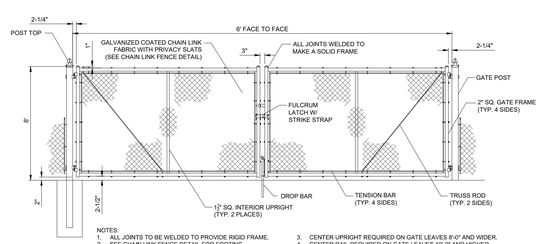
(NO SCALE)



WATER/SANITARY SEWER TRENCH & PIPE BEDDING DETAIL

(NO SCALE)

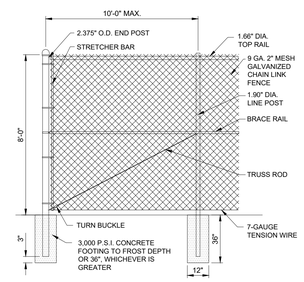
NOTES:
1. EXCAVATIONS IN EXISTING PAVED ROADWAYS SHALL BE COORDINATED WITH SCHALICK HIGH SCHOOL AND ALL EXCAVATION SHALL BE PAVED WITH TEMPORARY BITUMINOUS PAVEMENT FROM THE DATE OF ORIGINAL EXCAVATION UNTIL PERMANENT PAVEMENT IS INSTALLED.
2. INSTALLATION OF THERMOPLASTIC PIPE (PVC, HDPE, ETC.) SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM D-2774, LATEST EDITION, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PRESSURE PIPING", AND/OR ASTM D-2321, LATEST EDITION, "STANDARD PRACTICE FOR UNDERGROUND INSTALLATION OF THERMOPLASTIC PIPE FOR SEWERS AND OTHER GRAVITY-FLOW APPLICATIONS."
3. INSTALLATION OF CONCRETE PIPE SHALL BE CONDUCTED IN ACCORDANCE WITH ASTM C-1479, LATEST EDITION, "STANDARD PRACTICE FOR INSTALLATION OF PRECAST CONCRETE SEWER, STORM DRAIN, AND CULVERT PIPE USING STANDARD INSTALLATIONS."
4. MINIMUM TRENCH WIDTH TO BE AS FOLLOWS:
   CONCRETE PIPE = O.D + (O.D /6 X 2)
   THERMOPLASTIC PIPE = GREATER OF O.D. + 16" OR 1.25 X O.D. + 12"



NOTES:
1. ALL JOINTS TO BE WELDED TO PROVIDE RIGID FRAME.
2. SEE CHAIN LINK FENCE DETAIL FOR FOOTING SPECIFICATIONS.
3. CENTER UPRIGHT REQUIRED ON GATE LEAVES 8'-0" AND WIDER.
4. CENTER RAIL REQUIRED ON GATE LEAVES 10'-0" AND HIGHER.

DOUBLE SWING GATE

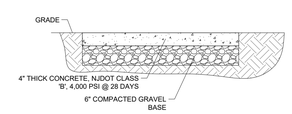
(NO SCALE)



NOTES:
1. BOTTOM TENSION WIRE TO EXTEND ENTIRE LONGTH OF FENCE.
2. CHAIN LINK MESH TO BE SELVAGED BARBED AND TWISTED AT TOP AND SELVAGE KNUCKLED AT BOTTOM.

CHAIN LINK FENCE DETAIL

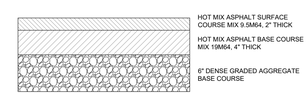
(NO SCALE)



4" THICK CONCRETE PAD DETAIL

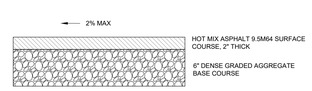
(NO SCALE)

NOTE:
CONCRETE SHALL BE NJDOT CLASS B AND HAVE A 28-DAY COMPRESSIVE STRENGTH OF 4,000 PSI.



PAVEMENT RESTORATION DETAIL

(NO SCALE)



ASPHALT PAVEMENT DETAIL(WALKING PATH)

(NO SCALE)

ISSUED FOR BID: 4-21-2025

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bmulford@fralinger.com
DATE

NO.	DATE	REVISION	BY
2	4/16/2025	FIELDHOUSE REVISIONS	RAM
1	12/09/2024	PERFECTED PLAN	TJ

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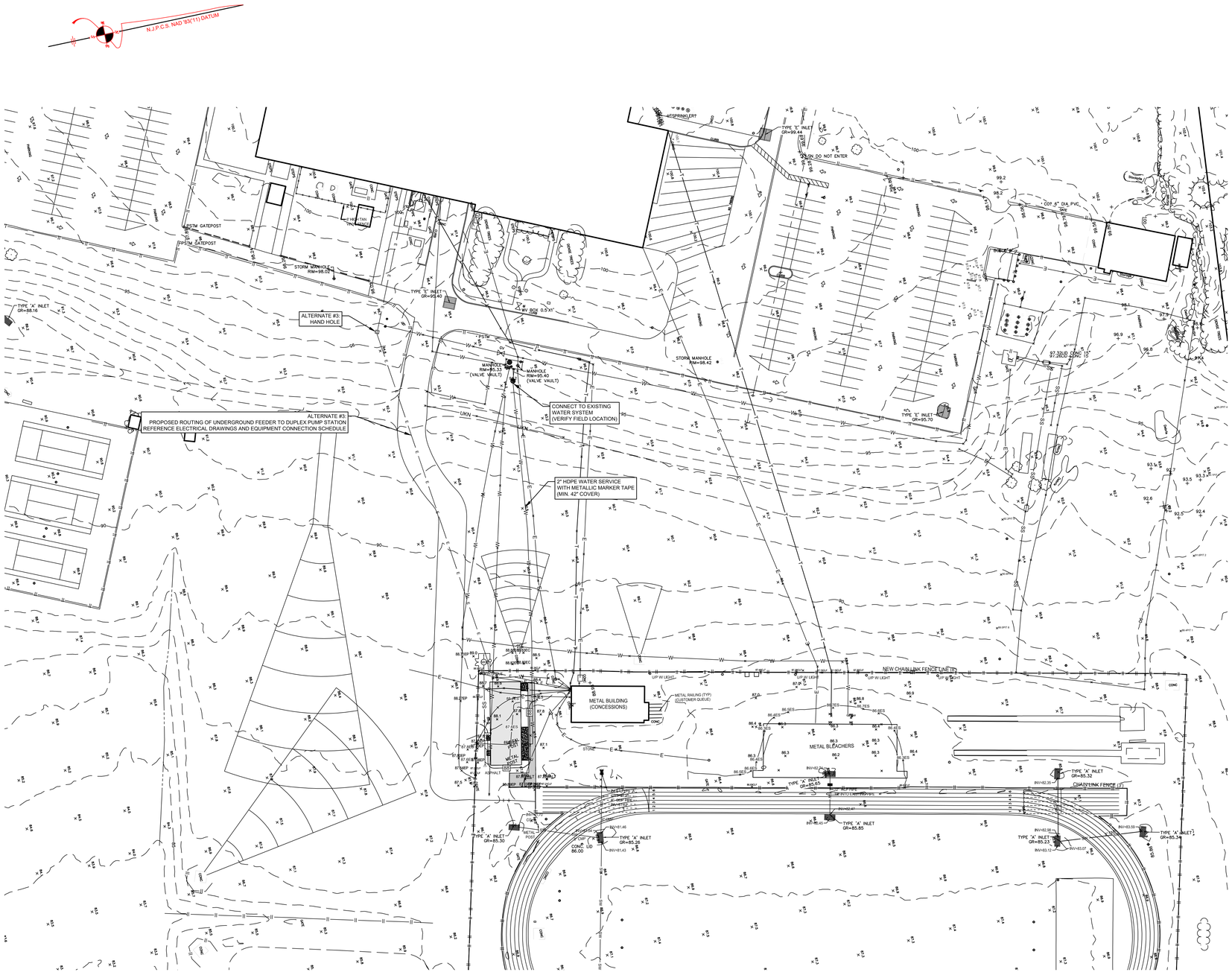
PROPOSED FIELD HOUSE SITE PLAN
PREPARED FOR
ARTHUR P. SCHALICK HIGH SCHOOL

MUNICIPALITY:	PITTSGROVE TOWNSHIP
COUNTY:	SALEM COUNTY
STATE:	NEW JERSEY
SCALE:	1" = 10'
PROJECT #:	02463.19
DRAWING FILE:	02463.19 Bleachers_Revised_4-8-25.dwg
DATE:	11/01/24
DRAWN BY:	TJ
CHECKED BY:	



HORIZONTAL SCALE
40 20 0 40 80
(IN FEET)
1 inch = 40 ft.

ALTERNATE #3:
SEE ELECTRICAL DRAWINGS FOR NEW POWER
FEED FOR DUPLEX PUMP CONNECTION
TO EMERGENCY GENERATOR.

LEGEND

— — 80 — —	EXISTING CONTOUR ELEVATION
+102.83	EXISTING SPOT ELEVATION
——‖——‖——	CHAIN LINK FENCE
— — — —	UNPAVED PATH OR LANE
⌀	UTILITY POLE
——SW——	STORM SEWER
☼	LIGHT POLE
Ⓦ	WELL
☼	LIGHT POLE
——E——E——	UNDERGROUND ELECTRIC
——T——T——	UNDERGROUND TELECOM
——W——W——	UNDERGROUND WATER
——UKN——UKN——	UNDERGROUND UNKNOWN UTILTY

THIS PLAT HAS BEEN PREPARED WITHOUT THE BENEFIT OF A TITLE REPORT. THIS CORPORATION AND/OR ITS EMPLOYEES ARE NOT LIABLE FOR ERRORS OR OMISSIONS RESULTING FROM THIS CONDITION.

NO FRESHWATER WETLANDS, AS DEFINED BY THE NEW JERSEY "FRESHWATER WETLANDS PROTECTION ACT" (N.J.S.A. 13:9B-1), ARE INTENDED TO BE SHOWN OR DELINEATED AS PART OF THIS SURVEY.

THIS PLAT DOES NOT SHOW OR INTEND TO SHOW ANY NONRECORDED EASEMENTS OR RIGHTS-OF-WAY.

ONLY COPIES FROM THE ORIGINAL MAP OF THIS PLAT, CLEARLY MARKED WITH THE APPROPRIATE PROFESSIONAL'S EMBOSSED SEAL, SHALL BE CONSIDERED TO BE VALID COPIES.

THE ORIGINAL OF THIS DRAWING IS THE PROPERTY OF FRALINGER ENGINEERING PA.

ISSUED FOR BID: 4-21-2025

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NO.	DATE	REVISION	BY
2.	4/16/2025	FIELDHOUSE REVISIONS	RAM
1.	12/09/2024	PERFECTED PLAN	TJ

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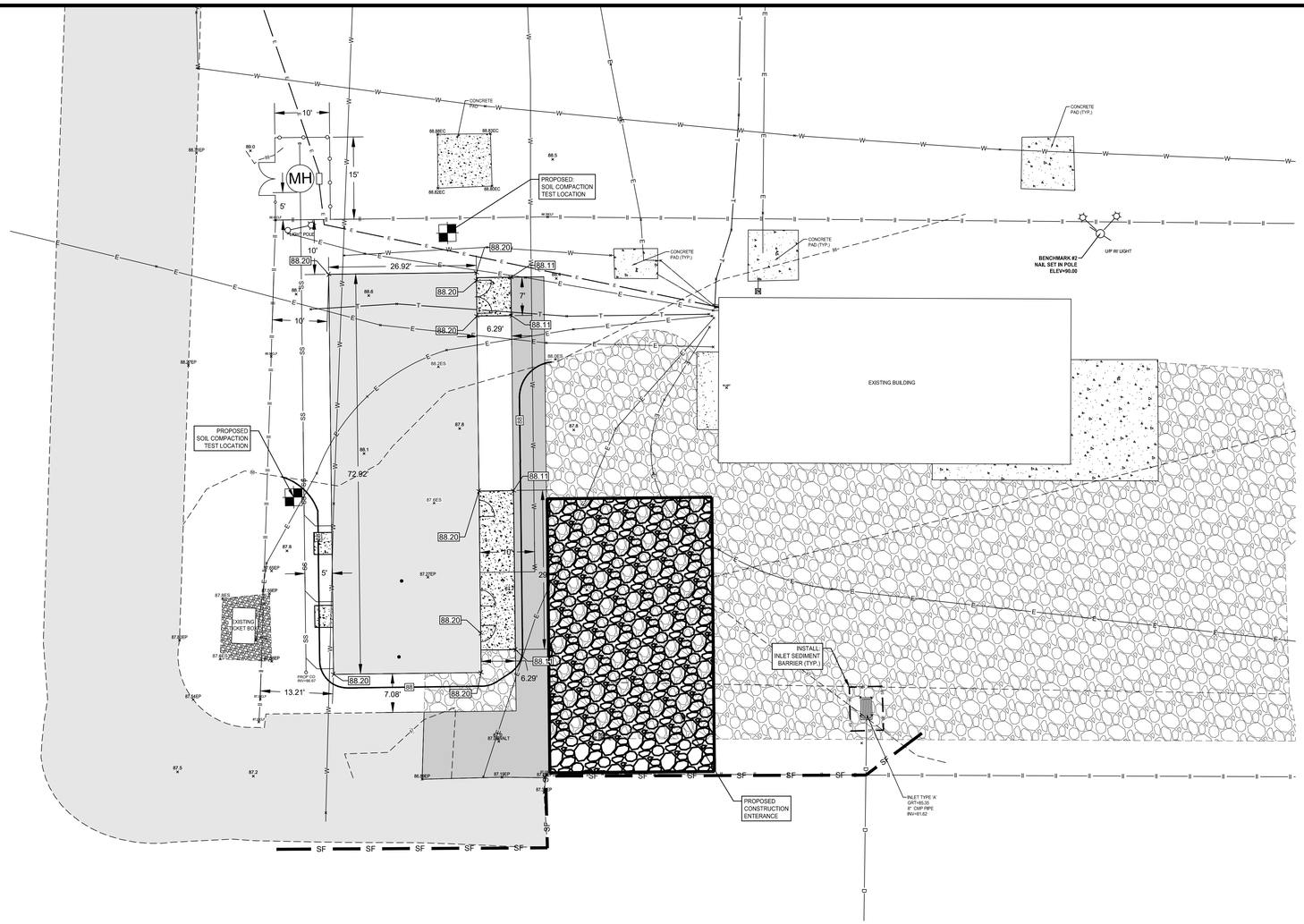
PROPOSED FIELD HOUSE OVERVIEW
PREPARED FOR
ARTHUR P. SCHALICK HIGH SCHOOL

MUNICIPALITY:	PITTSGROVE TOWNSHIP	PROJECT #:	02463.19
COUNTY:	SALEM COUNTY	CADD FILE #:	02463.19 Bleachers_Revised_4-8-25.dwg
STATE:	NEW JERSEY	DATE:	11/01/24
SCALE:	1" = 40'	DRAWN BY:	TJ
		CHECKED BY:	



SOIL DE-COMPACTION TESTING CALCULATIONS

1. AREA OF DISTURBANCE TO REMAIN GRASSLAWN
   = 0.03 ACRES => 1 ACRES => 2 TESTS
   (SEE SOIL EROSION AND SEDIMENT CONTROL STATEMENTS)

SOIL DE-COMPACTION LEGEND

RECOMMENDED SOIL COMPACTION TEST LOCATION (2 PER ACRE OF DISTURBANCE)

SOIL EROSION AND SEDIMENT CONTROL STATEMENTS

A. SEQUENCE OF DEVELOPMENT
   1. SITE CLEARING, BACKFILL AND COMPACT FILL MATERIAL BROUGHT TO SITE, STRIP TOPSOIL WHERE REQUIRED FROM SITE AND INSTALLATION OF SOIL EROSION MEASURES. (SILT FENCE, ETC.).
   2. CONSTRUCTION OF PROPOSED FIELD HOUSE, ASPHALT WALKING PATH, AND UTILITY SERVICES TO FIELD HOUSE.
   3. INSTALLATION OF TOPSOIL, GRADING, SEEDING, FERTILIZING AND LANDSCAPING WITHIN DESIGNATED AREAS

B. THE TOTAL AREA DISTURBED (BLOCK 1707 LOT 7) APPROXIMATELY 18,106± SQUARE FEET (0.416 ACRES OF LAND). EXISTING SITE IMPERVIOUS AREA IS 16,117 SF (0.37 ACRES OF LAND)

C. EXISTING AND PROPOSED ELEVATIONS ARE SHOWN ON THE PLANS.

D. THE LOCATION OF THE SEDIMENT CONTROL STRUCTURES AND EROSION CONTROL STRUCTURES ARE SHOWN ON THE PLANS. A WASHED STONE TRAFFIC CONTROL STRUCTURE IS SHOWN IN THE CONSTRUCTION DRIVEWAY AREA ADJACENT TO THE FACILITY DRIVEWAY. IF REQUIRED, TRAFFIC CONTROL STRUCTURE SHALL BE 12" LAYER OF CRUSHED STONE, ASTM C-33, SIZE 1-1/2" - 2".

PERMANENT AND TEMPORARY SEEDING

E. NONSTRUCTURAL METHODS OF EROSION CONTROL ARE AS FOLLOWS:

ANY SOIL STOCKPILED FOR MORE THAN 30 DAYS SHALL BE STABILIZED WITH 1 LB. OF PERENNIAL RYEGRASS AT A RATE OF 1 POUND PER 1,000 SQUARE FEET AND WORKED INTO A DEPTH OF 4 INCHES.

LIME SHALL BE APPLIED AT A RATE OF 90 LBS. PER 1,000 SQUARE FEET OR 2 TONS PER ACRE AND WORKED INTO A DEPTH OF 4 INCHES. FERTILIZER EQUIVALENT TO 10-20-10 SHALL BE APPLIED AT A RATE OF 11 POUNDS PER 1,000 SQUARE FEET, OR 500 LBS./ACRE.

SEED MIX SHALL BE APPLIED AT A RATE OF:
HARD FESCUE - 2.7 LBS./1,000 SQ. FT.
PERENNIAL RYEGRASS - 0.7 LBS./1,000 SQ. FT.
KENTUCKY BLUEGRASS - 0.9 LBS./1,000 SQ. FT.

TOPSOIL SHALL BE SPREAD TO A MINIMUM DEPTH OF 4 INCHES AND BE GRADED FROM THE BUILDINGS TO THE PARKING AREAS AND ALONG LANDSCAPED AREAS. STRAW MULCH SHALL BE APPLIED AT A RATE OF 90 LBS. PER 1,000 SQUARE FEET.

MULCH ANCHORING SHOULD BE ACCOMPLISHED IMMEDIATELY AFTER PLACEMENT OF MULCH TO MINIMIZE LOSS BY WIND OR WATER. THIS MAY BE DONE BY ONE OF THE FOLLOWING METHODS, DEPENDING UPON THE SIZE OF THE AREA, STEEPNESS OF SLOPES AND COST:

PEG AND TWINE
MULCH NETTINGS
MULCH ANCHORING TOOL
LIQUID MULCH BINDERS

F. STABILIZATION WITH MULCH ONLY:
WHEN SEASONS AND OTHER CONDITIONS ARE NOT SUITABLE FOR GROWING AN EROSION-RESISTANT COVER, (OCT. 15 - FEB. 15, AND MAY 1 - AUG. 15) ALL EXPOSED AREAS WILL BE STABILIZED WITH MULCH. SALT HAY OR STRAW WILL BE APPLIED AT A RATE OF 90 - 115 LBS./1,000 SQ. FT. AND WILL BE ANCHORED IMMEDIATELY AFTER PLACEMENT TO MINIMIZE LOSS BY WIND AND WATER. STABILIZATION WITH MULCH WILL COMPLY WITH PAGE 5-1 OF SOIL EROSION/SEDIMENT CONTROL PRACTICES IN NEW JERSEY, INCLUDING DETAILS ON ANCHORING MULCH.

G. ALL STRUCTURES (BUILDINGS, PERMANENT VEGETATIVE COVER AND LANDSCAPING) WILL BE MAINTAINED BY THE OWNER AND MANAGEMENT OF THIS PARCEL OF GROUND.

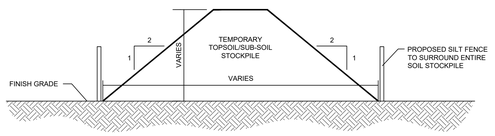
ENTIRE PROJECT AREA IS 111 ACRES (BLOCK 1707, LOT 7)

H. SOIL TYPE PRESENT IN WORK AREA:

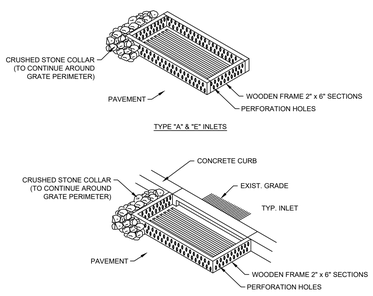
SwcB: SASSAFRAS SANDY LOAM, 2 TO 5 PERCENT SLOPES, NORTHERN COASTAL PLAIN

I. DUST CONTROL:
WATER TRUCK TO BE PROVIDED TO SPRINKLE SURFACE UNTIL WET.

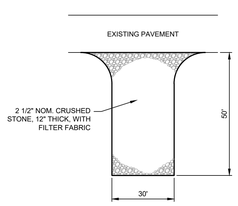
J. ALL SEDIMENT SPILLED, DROPPED, WASHED OR TRACKED ONTO PUBLIC RIGHTS-OF-WAY MUST BE REMOVED IMMEDIATELY.



TOPSOIL/SUB-SOIL STOCKPILE DETAIL
(NO SCALE)

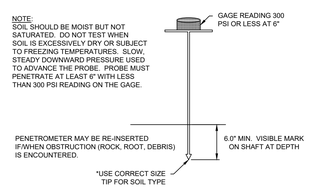


INLET SEDIMENT FILTER
(NO SCALE)



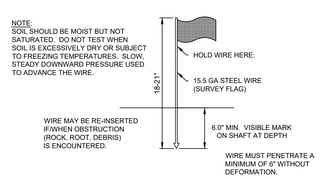
STABILIZED CONSTRUCTION ENTRANCE DETAIL
(NO SCALE)

NOTE:
SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE PROBE. PROBE MUST PENETRATE AT LEAST 6" WITH LESS THAN 300 PSI READING ON THE GAGE.

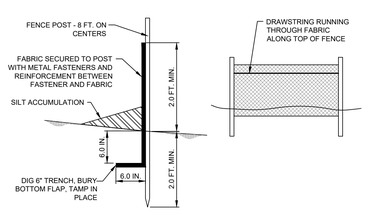


HANDHELD SOIL PENETROMETER TEST
(NO SCALE)

NOTE:
SOIL SHOULD BE MOIST BUT NOT SATURATED. DO NOT TEST WHEN SOIL IS EXCESSIVELY DRY OR SUBJECT TO FREEZING TEMPERATURES. SLOW, STEADY DOWNWARD PRESSURE USED TO ADVANCE THE WIRE.



PROBING WIRE TEST
(NO SCALE)



SILT FENCE SEDIMENT BARRIER
(NO SCALE)

LEGEND

25	EXISTING MAJOR CONTOUR
23	EXISTING MINOR CONTOUR
x63.5	EXISTING SPOT ELEVATION
EC	EDGE OF CONCRETE
EP	EDGE OF PAVEMENT
WALT	TOP OF WALL
II II	CHAIN LINK FENCE
	EDGE OF PAVEMENT
	EDGE OF STONE
	UTILITY POLE
E E	UNDERGROUND ELECTRIC
T T	UNDERGROUND TELECOM
W W	UNDERGROUND WATER
UKN UKN	UNDERGROUND UNKNOWN UTILITY

GENERAL FOUNDATION NOTE:
1. BLEACHER LAYOUTS AND DETAILS ARE BASED ON DRAWING PROVIDED BY E & D SPECIALTY STANDS INC. (BASIS OF DESIGN).
2. CONCRETE SLAB DESIGN TO BE PROVIDED BY BLEACHER SUPPLIER CONTRACTOR TO PROVIDE ENGINEERED DRAWINGS BASED ON EXISTING CONDITIONS AND GEOTECH REPORT PROVIDED IN SPECIFICATIONS.

ISSUED FOR BID: 4-21-2025

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DATE

NO.	DATE	REVISION	BY
2	4/16/2025	FIELDHOUSE REVISIONS	BAM
1	12/09/2024	PERFECTED PLAN	TJ

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SOIL EROSION AND SEDIMENT CONTROL PLAN
PREPARED FOR:
ARTHUR P. SCHALLICK HIGH SCHOOL

MUNICIPALITY:	PITTSGROVE TOWNSHIP
COUNTY:	SALEM COUNTY
STATE:	NEW JERSEY
SCALE:	1" = 10'
PROJECT #:	02463.19
DRAWING #:	02463.19 Bleachers_Revised_4-8-25.dwg
DATE:	11/01/24
DRAWN BY:	TJ
CHECKED BY:	

ALL NEW INTERIOR DOORS TO RECEIVE NEW SIGNAGE (TYP.) PROVIDE SIGNAGE AT WOMEN'S, CUSTODIAL & MEN'S ROOMS ON EXTERIOR FACE OF BUILDING

SIGNAGE: ALL SIGNAGE SHALL COMPLY WITH CABO/ANSI 117.1
ALL INTERIOR DOORS ARE TO RECEIVE SIGNAGE INSTALL PERMANENT SIGNS ON THE WALL ADJACENT TO THE LATCH SIDE OF THE DOOR AT MAX. 60" ABOVE FLOOR TO CENTER LINE OF SIGN, OVERHEAD SIGN SHALL BE INSTALLED AT 80" MIN. HEIGHT ABOVE FLOOR. SEE FIG. 0 & FIG. 8.

LETTERS AND NUMBERS SHALL HAVE WIDTH TO HEIGHT RATIO BETWEEN 3:5 AND 1:1.

ALL LETTERS AND NUMBERS SHALL BE GRADE 2 BRAILLE, PROVIDE INTERNATIONAL SYMBOL FOR ACCESSIBILITY.

RAISED AND BRAILLE CHARACTERS AND PICTORIAL SYMBOL SIGNS (PICTOGRAMS). LETTERS AND NUMERALS SHALL BE RAISED 1/32 IN. UPPER CASE, SANS SERIF OR SIMPLE SERIF TYPE AND SHALL BE ACCOMPANIED WITH GRADE 2 BRAILLE. RAISED CHARACTERS SHALL BE AT LEAST 5/8 IN. (16 MM) HIGH, BUT NO HIGHER THAN 2 IN. (50 MM). PICTOGRAMS SHALL BE ACCOMPANIED BY THE EQUIVALENT VERBAL DESCRIPTION PLACED DIRECTLY BELOW THE PICTOGRAM. THE BORDER DIMENSION OF THE PICTOGRAM SHALL BE 6 IN. (152 MM) MINIMUM IN HEIGHT.

ENTRANCE DOORS & OTHER DOORS IN SPACE

PROVIDE ENTRANCE DOOR AS "A" ,AND "B" FIG. 0. FROM ALL CORR. & LOBBIES
PROVIDE OTHER DOORS IN SPACE AS "A" AND "B", FIG. 0. FROM ROOMS TO OTHER AREAS.
INDICATE ADDITIONAL ITEMS, IF APPLICABLE TO THOSE DOORS.
ALL DOORS SHALL HAVE CLEAR WIDTH AS SHOWN ON FIG. 24 & SILL HEIGHT LIMIT AS FIG. 7 SHOWN.
DOOR HARDWARE SHALL BE NOTED ON FIG. 0.

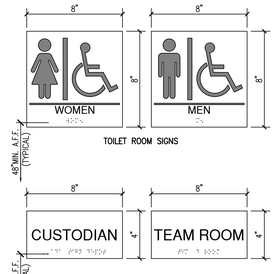
SYMBOLS:

(a) Proportions International Symbol of Accessibility

(b) Display Conditions International Symbol of Accessibility

ROOM IDENTIFICATION ENGRAVED SYSTEM DESIGN:

2 COLOR LAYER LAMINATED PLASTIC SIGN WITH RAISED LETTERS AND RAISED GRADE 2 BRAILLE.



STANDARD ROOM SIGNS

FINAL NUMBER & NAME (IN TWO SEPARATED PANELS) ARE SELECTED BY THE OWNER.

DOOR SCHEDULES & ROOM SCHEDULE FOR CONSTRUCTION ONLY.

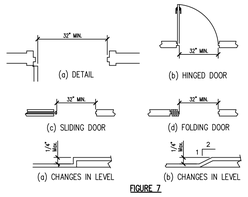


FIGURE 7
Accessible Route

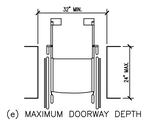


FIGURE 24
Clear Doorway Width & Depth

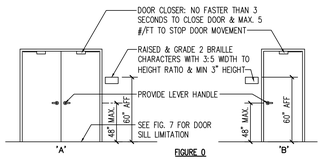
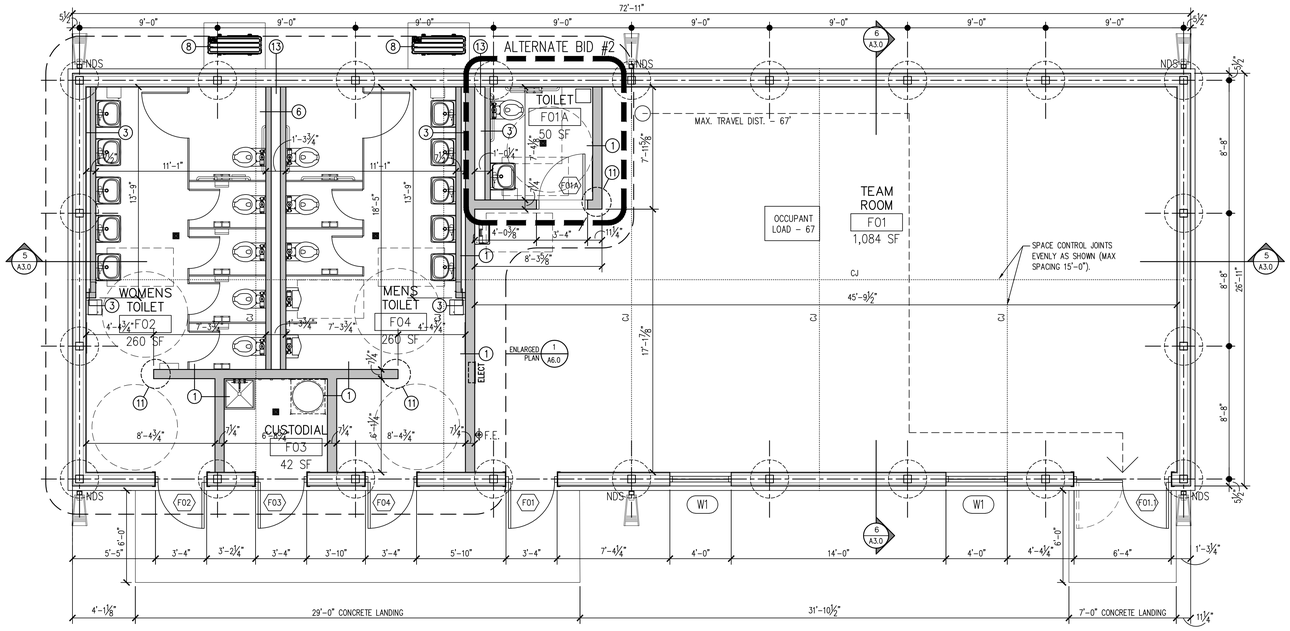
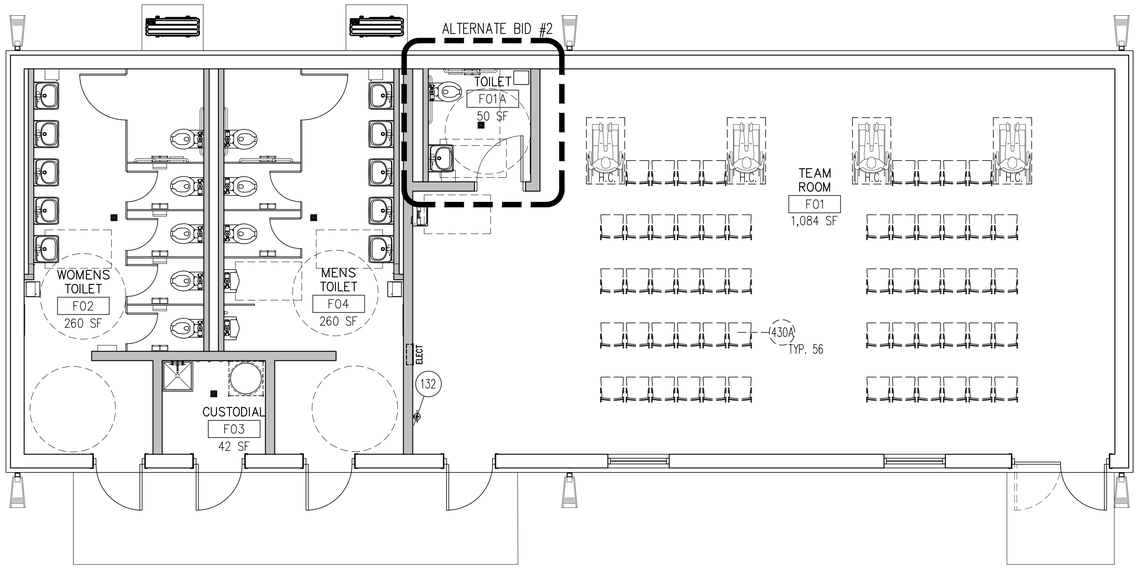


FIGURE 0
Hardware & Required Heights



1 A1.0 FIELD HOUSE FLOOR PLAN

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



2 A1.0 FIELD HOUSE FURNITURE PLAN

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

DESIGN CODES

INTERNATIONAL BUILDING CODE/2021/ NEW JERSEY EDITION
INTERNATIONAL MECHANICAL CODE/2021
INTERNATIONAL FUEL GAS CODE/2021
NATIONAL STANDARD PLUMBING CODE/2021
ASHRAE 90.1-2019 ENERGY STANDARD
NATIONAL ELECTRICAL CODE (NFPA 70)/2020
INTERNATIONAL FIRE CODE/2021
ELEVATOR SUBCODE: (NJAC 5:23-12)
: AMERICAN SOCIETY OF MECHANICAL ENGINEERS (ASME)
BARRIER FREE SUBCODE:ICC/ANSI A117.1-2017
N.J. REHAB CODE NJAC 5:23-6, NJUCC. SUBCHAPTER 6.
NJ UCC BULLETIN 00-3: PUBLIC SCHOOLS-FACILITY PLANNING STANDARDS & UCC ENHANCEMENTS

NEW BUILDING AREA & VOLUME

BUILDING AREA:	1,965 SQ.FT. < 9,500...O.K.
BUILDING HEIGHT:	ONE STORY 16'-0" < 40'-0"....O.K.
BUILDING VOLUME:	19,650 CU.FT

MEANS OF EGRESS/OCCUPANT LOAD
(IBC 2021, NEW JERSEY EDITION, CHAPTER 10 & NJDOE 6:22)

EXIT ACCESS TRAVEL DISTANCE (TABLE 1017.2)
200 FT. MAXIMUM (WITHOUT AUTOMATIC SPRINKLER SYSTEM)
MEANS OF EGRESS SIZING (SECTION 1005):
DOORS/RAMPS/CORRIDORS (1005.3.2) = 0.20 in. PER OCC.
SINGLE 36" DOOR = 165 OCCUPANTS
DOUBLE 36" DOORS = 330 OCCUPANTS
TOTAL BUILDING OCCUPANT LOAD - 67

INTERNATIONAL BUILDING CODE 2021, N.J. EDITION
TABLE 601 FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS

CONSTRUCTION TYPE: 2B USE GROUP: E

BUILDING ELEMENT:	HOURS:
PRIMARY STRUCTURAL FRAME	0
BEARING WALLS (EXTERIOR)	0
BEARING WALLS (INTERIOR)	0
NONBEARING WALLS & PARTITIONS (EXTERIOR)	0
NONBEARING WALLS & PARTITIONS (INTERIOR)	0
FLOOR CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
ROOF CONSTRUCTION & ASSOCIATED SECONDARY MEMBERS	0
EXIT ACCESS CORRIDOR	1

NEW 1 STORY BUILDING - 5B CONSTRUCTION TYPE
USE GROUP E: WITHOUT AUTOMATIC SPRINKLER SYSTEM

INTERNATIONAL BUILDING CODE 2021, NEW JERSEY EDITION:

TABLE 504.3:	ALLOWABLE BUILDING HEIGHT IN FEET ABOVE GRADE PLANE: 40'-0"
TABLE 504.4:	ALLOWABLE NUMBER OF STORIES ABOVE GRADE PLANE: 1
TABLE 506.2:	ALLOWABLE AREA FACTOR IN SQUARE FEET: 9,500

LEGEND

MAXIMUM OCCUPANCY LOAD XX — POSTED OCCUPANCY LOAD: LOADS FOR EVERY ROOM SHALL BE POSTED WITH AN APPROVED PLACARD DESIGNATING THE MAXIMUM OCCUPANCY LOAD. UNIFORM CONSTRUCTION CODE 5:23-3.5(b) (SEE A0.1 & A0.2 FOR LOADS IN EACH ROOM)

F/R — TRUSS CONSTRUCTION IDENTIFICATION: THE EMBLEM SHALL BE OF A BRIGHT AND REFLECTIVE COLOR. THE EMBLEM SHALL BE PERMANENTLY AFFIXED TO THE LEFT OF THE MAIN ENTRANCE DOOR BETWEEN FOUR & SIX FEET ABOVE THE GROUND AND SHALL BE INSTALLED & MAINTAINED BY THE OWNER. UNIFORM CONSTRUCTION CODE :23-3.5(e) (REQUIRED BY N.J.A.C. 5:70-2.20)

"F" TO SIGNIFY A FLOOR WITH TRUSS CONSTRUCTION
"R" TO SIGNIFY A ROOF WITH TRUSS CONSTRUCTION
"F/R" TO SIGNIFY BOTH A FLOOR & ROOF WITH TRUSS CONSTRUCTION

MAIN ENTRANCE

LIST OF EQUIPMENT AND FURNITURE

ITEM NUMBER	DESCRIPTION	BASE BID IN CONTRACT	(N.I.C.) NOT IN CONTRACT
132	FIRE EXTINGUISHER, 16"Hx4"DIA. 5 LB 2A:10:B:C. SEE SPEC. 10522.	✔	
430A	FOLDING SEAT, NATIONAL PUBLIC SEATING MODEL #50 SERIES		✔

FLOOR PLAN LEGEND

METAL STUD PARTITION
MASONRY WALL
(#) — FOR WALL TYPES, SEE DRAWING A4.0
(#) FOR DOOR TYPES & DETAILS, SEE DRAWING A5.0
(W) FOR WINDOW TYPES & DETAILS, SEE DRAWING A5.0
F.E. FIRE EXTINGUISHER (SEE SPECS & EQUIPMENT SCHEDULE)
NDS DOWNSPOUT (SEE DETAIL 14/A4.0 AND BUILDING SECTIONS)
FOR BUILDING ELEVATIONS & SECTIONS, SEE DRAWING A3.0

ROOM AND FINISH SCHEDULE

ALTERNATE BID NO.	ROOM NO.	ROOM NAME	PROPOSED FLOOR	PROPOSED BASE	PROPOSED WALLS	FIRE RATING (HOUR)	PROPOSED CEILING	PROP.CEILING HEIGHT	CEILING TILE TYPE	REMARKS
–	F01	TEAM ROOM	SEALED CONCRETE	4" VINYL	PAINTED GWB	0	IMPACT GYPSUM BOARD	9'-10"	A	REFER TO NOTES #1 & #3
#2	F01A	TOILET	EPOXY	4" EPOXY	PAINTED GWB/FRP	0	LAY-IN	8'-0"	B	REFER TO NOTE #2
–	F02	WOMEN'S	EPOXY	4" EPOXY	PAINTED GWB/FRP	0	IMPACT GYPSUM BOARD	9'-10"	A	REFER TO NOTES #1 & #2
–	F03	CUSTODIAL	EPOXY	4" EPOXY	PAINTED GWB	0	IMPACT GYPSUM BOARD	9'-10"	A	REFER TO NOTE #1
–	F04	MEN'S	EPOXY	4" EPOXY	PAINTED GWB/FRP	0	IMPACT GYPSUM BOARD	9'-10"	A	REFER TO NOTES #1 & #2

FINISH SCHEDULE NOTES:
1. PROVIDE 1x3 PAINTED TRIM AT ALL WALL/CEILING TRANSITIONS
2. REFER TO PLANS FOR LOCATIONS OF FULL HEIGHT FRP WALL PANELS.
3. CONCRETE SLAB TO REMAIN EXPOSED. PROVIDE SIKA SikaCem-102 FIRST SEAL, WATER-BASED SILANE-SILOXANE, OVER FINISHED SLAB 24 HOURS AFTER CONCRETE PLACEMENT. CONSULT W/PRODUCT MANUFACTURER FOR APPLICATION INSTRUCTIONS PRIOR TO POURING THE SLAB. APPLY 2-COATS TOTAL.

ISSUED FOR BID: 04/21/2025

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PITTSGROVE TOWNSHIP SCHOOL DISTRICT
1076 ALMOND ROAD, PITTSGROVE NEW JERSEY 08318
ARTHUR P. SCHALICK HIGH SCHOOL
2025 NEW FIELD HOUSE
718 CENTERTON ROAD, PITTSGROVE, NEW JERSEY 08318

REVISIONS
a.
b.
c.

Project No. 24-74
Date: 4/21/25
Scale: AS NOTED

FLOOR PLAN, FURNITURE & FINISHES
A1.0

PROJECT REQUIREMENTS AND NOTES:

1. PROVIDE A SCHEDULE INDICATING EXISTING SEQUENCE OF OPERATIONS FOR ALL WORK TO OWNER'S REPRESENTATIVE FOR REVIEW PRIOR TO START OF WORK. INCLUDE COORDINATION FOR SHUTOFF, CAPPING, AND CONTINUATION OF UTILITY SERVICES AS REQUIRED, TOGETHER WITH DETAILS FOR DUST AND NOISE CONTROL PROTECTION.
2. PROVIDE A DETAILED SEQUENCE OF DEMOLITION AND REMOVAL WORK TO ENSURE UNINTERRUPTED PROGRESS OF OWNER'S ON-SITE OPERATIONS.
3. THE OWNER WILL OCCUPY PORTIONS OF THE BUILDING IMMEDIATELY ADJACENT TO AREAS OF SELECTIVE DEMOLITION AND NEW CONSTRUCTION. COORDINATE WORK WITH OWNER'S CONTINUING OCCUPATION OF THE EXISTING BUILDING. CONDUCT ALL WORK, INCLUDING SELECTIVE DEMOLITION IN A MANNER THAT WILL MINIMIZE NEED FOR DISRUPTION OF OWNER'S NORMAL OPERATIONS. PROVIDE MINIMUM OF 72 HOURS ADVANCED NOTICE TO OWNER FOR DEMOLITION ACTIVITIES THAT WILL AFFECT OWNER'S NORMAL OPERATIONS.
4. PROVIDE PHOTOGRAPHS OF EXISTING CONDITIONS IN ALL AREAS OF DEMOLITION AND NEW WORK TO DOCUMENT ITEMS THAT MIGHT BE MISCONSTRUED AS DAMAGE RELATED TO REMOVAL OPERATIONS. SUBMIT TO OWNER'S REPRESENTATIVE PRIOR TO START OF WORK.
5. ALL EQUIPMENT AND FINISH COLOR SELECTIONS ARE TO BE MADE BY THE OWNER DURING CONSTRUCTION (PRIOR TO PURCHASING) FROM APPROVED MANUFACTURER'S STANDARD COLOR OPTIONS.
6. PROTECT FLOORS AND OTHER FINISHED SURFACES WITH SUITABLE COVERINGS WHEN NECESSARY. REMOVE PROTECTION MATERIALS AT COMPLETION OF WORK.
7. COVER AND PROTECT FURNITURE, EQUIPMENT AND FIXTURES FROM SPOILAGE OR DAMAGE WHEN ANY WORK IS PERFORMED IN AREAS WHERE SUCH ITEMS HAVE NOT BEEN REMOVED.
8. IF HAZARDOUS MATERIALS ARE ENCOUNTERED DURING DEMOLITION OPERATIONS, COMPLY WITH APPLICABLE REGULATIONS, LAWS AND ORDINANCES CONCERNING REMOVAL, HANDLING AND PROTECTION AGAINST EXPOSURE OR ENVIRONMENTAL POLLUTION.
9. PROMPTLY REPAIR DAMAGES CAUSED TO ADJACENT FACILITIES BY SELECTIVE DEMOLITION OPERATIONS. REPAIR DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED. RETURN ELEMENTS OF CONSTRUCTION AND SURFACES TO REMAIN TO CONDITION EXISTING PRIOR TO START OF OPERATIONS. REPAIR ADJACENT CONSTRUCTION OR SURFACES SOILED OR DAMAGED BY SELECTIVE DEMOLITION WORK.

TYPICAL GENERAL NOTES:

1. SAFETY: THE CONTRACTOR IS RESPONSIBLE TO PROVIDE AND ENFORCE ALL SAFETY ONSITE AND CONFORM WITH ALL OSHA REGULATIONS, CODES AND STANDARDS. THE OWNER, CONSTRUCTION MANAGER, CLERK OF THE WORKS AND ARCHITECT HAVE NO RESPONSIBILITY TO PROVIDE FOR THE SAFETY OR PROTECTION OF THE TRADES. THE CONTRACTOR SHALL SUBMIT A SITE SPECIFIC EMERGENCY ACTION SAFETY PLAN AND REVIEW THIS WITH ALL ONSITE PERSONNEL. THE CONTRACTOR SHALL CONDUCT PERIODIC (AS NEEDED AT LEAST ONE A MONTH) SITE SAFETY INSPECTIONS AND ISSUE A REPORT ON THE CONDITIONS. THE CONTRACTOR SHALL MAINTAIN A FIRST AID KIT ONSITE.
2. BUILDING LAYOUT WAS TAKEN FROM EXISTING DRAWINGS AND FIELD SURVEYS. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD AND PROMPTLY NOTIFY THE ARCHITECT SHOULD CONDITIONS ENCOUNTERED VARY FROM THE DRAWINGS. ROOF DETAILS AS SHOWN ARE DIAGRAMMATIC AND SHOW INTENT. CONTRACTOR MUST FIELD VERIFY DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.
3. THE OWNER AND ARCHITECT ASSUME NO RESPONSIBILITY FOR THE EXISTING ACTUAL CONDITIONS THAT THE CONTRACTOR MAY ENCOUNTER DURING THE COURSE OF THE WORK.
4. THE CONTRACTOR SHALL EXERCISE EXTREME CARE REGARDING PUBLIC SAFETY IN THE PERFORMANCE OF THE WORK AND SHALL NOT IMPEDE THE OWNER'S OPERATION AS PORTIONS OF THE BUILDING WILL BE OCCUPIED DURING CONSTRUCTION.
5. ACCESS BY PERSONNEL, PARKING, AND MATERIAL STORAGE SHALL BE ONLY IN AREAS DESIGNATED BY THE OWNER'S REPRESENTATIVE.
6. DURING CONSTRUCTION, CLEAN AND PROTECT WORK IN PROGRESS. PROMPTLY REMOVE ANY DEBRIS FROM THE SITE. NO TRASH ACCUMULATION IS PERMITTED. TRANSPORT AND LEGALLY DISPOSE OF MATERIAL OFF SITE.
7. THE CONTRACTOR SHALL MAINTAIN FULL SECURITY AT ALL TIMES. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND ANY OTHER FORMS OF PROTECTION AS REQUIRED TO PROTECT OWNER'S PERSONNEL AND GENERAL PUBLIC FROM INJURY.
8. ERECT AND MAINTAIN DUST-PROOF PARTITION AND CLOSURES AS REQUIRED TO PREVENT SPREAD OF DUST OR FUMES TO OCCUPIED PORTIONS OF THE BUILDING.
9. PERFORM ALL DEMOLITION & REMOVAL WORK IN SUCH A MANNER AS NOT TO REDUCE THE LOAD-CARRYING CAPACITY OF ANY EXISTING STRUCTURAL MEMBER, ELEMENT, WALL, ETC. CEASE OPERATIONS AND NOTIFY OWNER'S REPRESENTATIVE IMMEDIATELY IF SAFETY OF STRUCTURE APPEARS TO BE ENDANGERED. TAKE PRECAUTIONS TO SUPPORT STRUCTURE UNTIL DETERMINATION IS MADE FOR CONTINUING OPERATIONS.
10. DO NOT USE FLAME CUTTING TORCHES FOR ON-SITE WORK.
11. THE CONTRACTOR SHALL INSPECT AND DOCUMENT THE INTERIOR OF THE BUILDING WHERE WORK IS TO TAKE PLACE WITH THE OWNER TO IDENTIFY THE CONDITIONS OF EXISTING FINISHES, EQUIPMENT, THE OPERATION OF EQUIPMENT ADJACENT TO AND RELATIVE TO THE WORK, AND SPECIAL PROVISIONS FOR PROTECTION OF INTERIOR CONTENTS, FURNISHINGS, EQUIPMENT, & FINISHES. THE CONTRACTOR SHALL MAKE ALL NECESSARY REPAIRS AND CLEAN ALL SURFACES TO ENSURE THAT POST-CONSTRUCTION CONDITIONS MATCH THE PRE-CONSTRUCTION CONDITIONS TO THE SATISFACTION OF THE OWNER.
12. ALL ELECTRICAL/DATA/COMMUNICATIONS WIRING, CONDUIT, GAS, WATER AND OTHER UTILITIES SHALL BE REMOVED AND REPOSITIONED AS REQUIRED TO ACCOMPLISH THE WORK WITHOUT DISRUPTION OF SERVICE EXCEPT WHERE PRIOR APPROVAL IS OBTAINED FROM THE OWNER'S REPRESENTATIVE.
13. UPON COMPLETION OF ALL WORK, REMOVE TOOLS, EQUIPMENT AND DEMOLISHED MATERIALS FROM SITE. REMOVE PROTECTIONS AND LEAVE INTERIOR AREAS WIPED DOWN AND BROOM CLEAN.

ROOF SYMBOL LEGEND

NVP	SANITARY VENT **(SEE DETAIL 26/A4.0)**
NEF / NGV	EXHAUST FAN OR GRAVITY VENTILATOR ON SLOPED CURB **(SEE DETAIL 27/A4.0)**
NDS	ALUMINUM DOWNSPOUT W/SLOPED SECTION BACK TO FACE OF BUILDING BELOW **(SEE DETAIL 14/A4.0 AND BUILDING SECTIONS)**
NGU	CONTINUOUS ALUM. GUTTER **(SEE BUILDING SECTIONS & ELEVATIONS)**
SLOPE 4:12 MIN.	INDICATES ROOF SLOPE DIRECTION OF THE NEW ROOF ASSEMBLY DOWN TO THE ROOF LOW POINT.

ROOF SCOPING NOTES

ROOF DETAILS AS SHOWN ARE DIAGRAMATIC AND SHOW INTENT. CONTRACTOR MUST FIELD VERIFY DIMENSIONS AND CONDITIONS PRIOR TO SUBMITTING SHOP DRAWINGS.

ROOF 'A' AREAS (NEW CONSTRUCTION):
THE NEW ROOF SYSTEM SHALL CONSIST OF A CONTINUOUS AIR BARRIER UNDERLAYMENT THROUGHOUT THE ROOF AREA BELOW THE METAL ROOF PANELS. PROVIDE METAL PANEL ROOF SYSTEM PER MANUFACTURER'S REQUIREMENTS. SEE DRAWING A4.0 FOR TYPICAL ROOF DETAILS.

ALL METAL GUTTERS AND DOWNSPOUTS ARE TO BE ALUMINUM (COLOR BY OWNER). ALL METAL ROOFING WORK IS TO BE COVERED UNDER THE BUILDING MANUFACTURER'S 50 YEAR WARRANTY.

ALL HVAC EQUIPMENT CURB HEIGHT SHALL BE MINIMUM 12" ABOVE FINISH ROOF. ALL VENT STACKS SHALL EXTEND MINIMUM 12" ABOVE FINISH ROOF.

PROVIDE ½" PER FOOT SLOPE GUSSETS/CRICKETS TO DIVERT WATER AROUND ALL ROOF PENETRATIONS/OBSTRUCTIONS & PROVIDE ROOF POSITIVE DRAIN.

CONTRACTOR SHALL CLEAN UP ALL DEBRIS OVER NEW ROOF & SURROUNDING AREA AS SPECIFICATIONS INDICATED.

REFER TO THE HVAC/PLUMBING DRAWINGS FOR SIZE AND LOCATIONS OF HVAC EQUIPMENT, EXHAUST FANS, VENT STACKS, ETC.
G.C. TO COORDINATE ALL ROOF PENETRATION LOCATIONS & SIZES WITH WOOD TRUSS CONTRACTOR, HVAC CONTRACTOR & PLUMBING CONTRACTOR.

SEE MECHANICAL, PLUMBING, ELECTRICAL & SITE DRAWINGS FOR ITEMS LISTED BY EACH TRADE.

UNLESS NOTED OTHERWISE, ALL ITEMS SHALL BE BY THE GENERAL CONTRACTOR.

CEILING FINISH TYPES

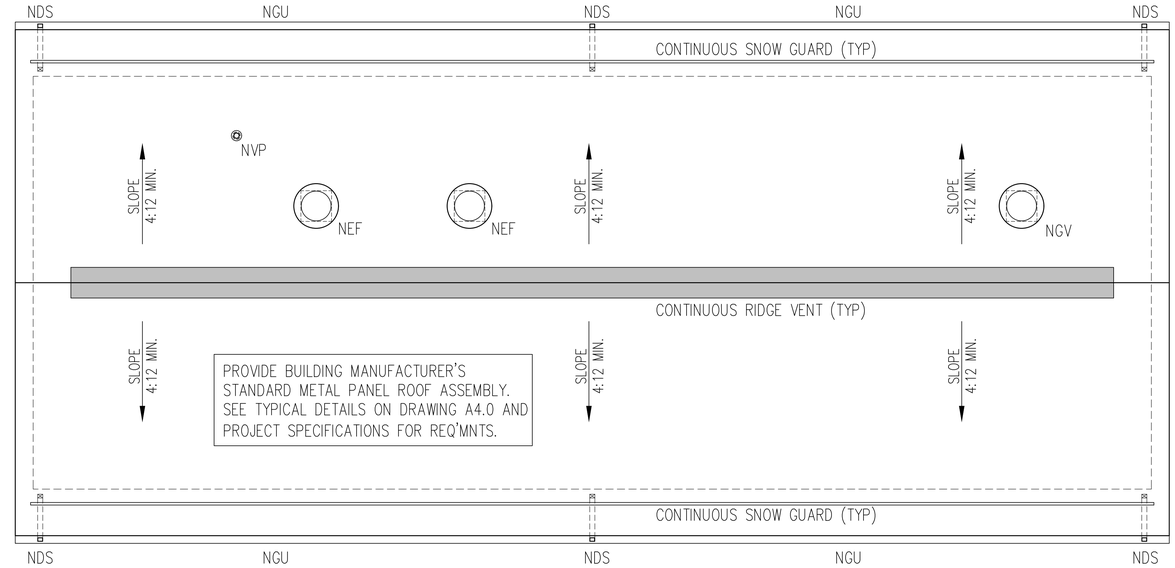
A	½" IMPACT RESISTANT GYPSUM BOARD
B	2x4 LAY-IN CEILING SYSTEM (TYPE A IN SPECIFICATIONS)
C	ALUMINUM SOFFIT PANELS (VENTED)

CEILING LEGEND

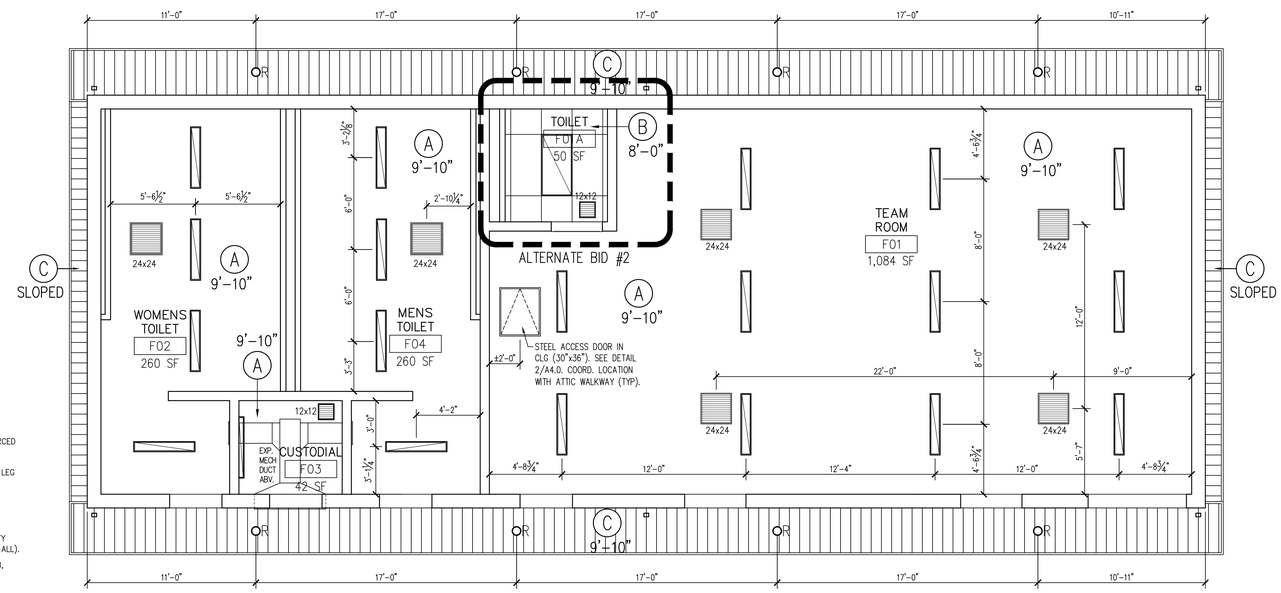
	2'x4' LAY-IN LED LIGHT FIXTURE (CEILING)
	4' LINEAR VANDAL PROOF SURFACE LIGHT FIXTURE (CEILING)
	4' SURFACE LIGHT FIXTURE (WALL MOUNT)
OR	RECESSED LIGHT FIXTURE (WP @ EXTERIOR)
	RETURN AIR GRILLE, SEE MECH. DWGS. FOR SIZE

CEILING GENERAL NOTES

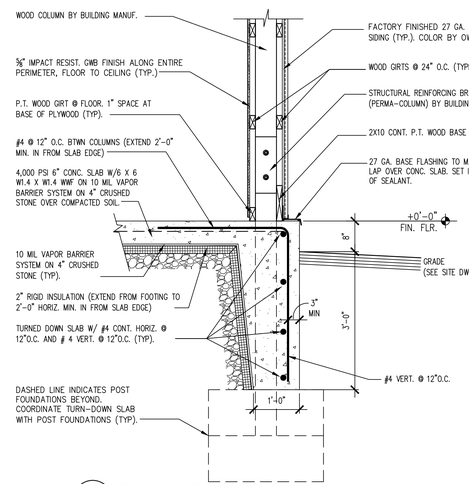
1. REFER TO MECHANICAL & ELECTRICAL DRAWINGS AND SPECIFICATIONS FOR ADDITIONAL INFORMATION. NOT ALL CEILING MOUNTED LIGHT FIXTURES AND AIR DEVICES MAY BE SHOWN AND WHAT IS SHOWN IS FOR BASIC INTENT. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING COMPREHENSIVE COORDINATION DRAWINGS, VERIFYING AVAILABLE AREA AND ABOVE CEILING CLEARANCE. DRAWINGS SHALL INCORPORATE THE WORK OF ALL APPLICABLE TRADES AND ALL CEILING MOUNTED EQUIPMENT, INCLUDING ALL POTENTIAL CONFLICTS (EXISTING PIPE, DUCT, ETC.).



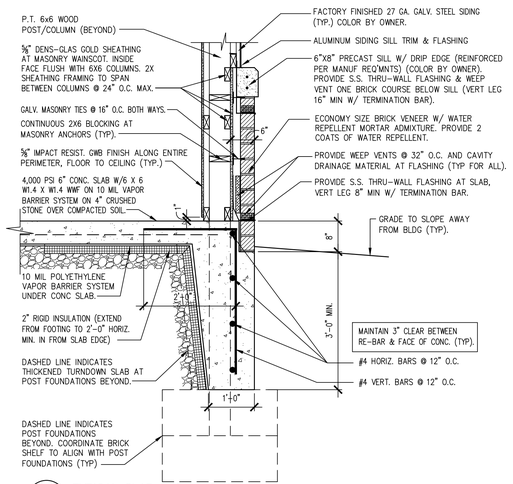
1 / A2.0 FIELD HOUSE ROOF PLAN
SCALE: 1/4" = 1'-0"



2 / A2.0 FIELD HOUSE REFLECTED CEILING PLAN
SCALE: 1/4" = 1'-0"



D1 / A2.0 TYPICAL SLAB EDGE DETAIL
BASE BID (NO MASONRY)
SCALE: 3/4" = 1'-0"



D2 / A2.0 TYPICAL SLAB EDGE DETAIL
ALTERNATE BID #1 (MASONRY WAINSCOT)
SCALE: 3/4" = 1'-0"

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REVISIONS
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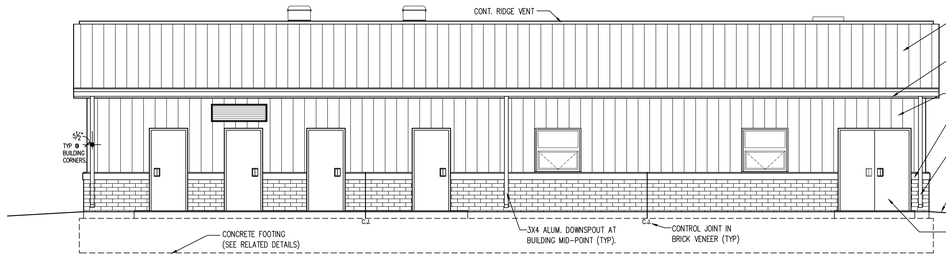
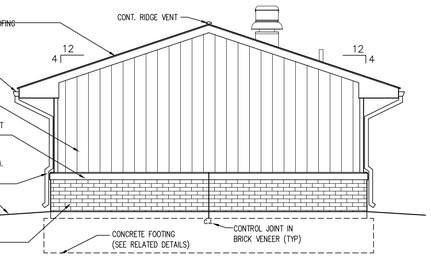
Project No. 24-74
Date: 4/21/25
Scale: AS NOTED

ROOF PLAN, RCP PLAN & NOTES
A2.0



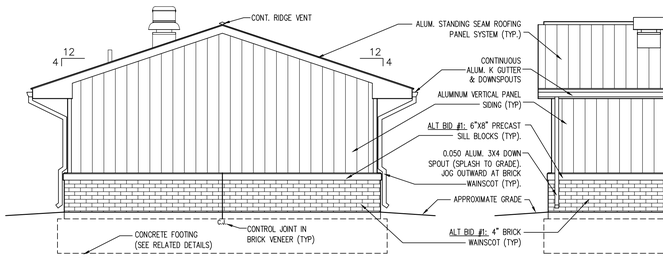
1 A3.0 ELEVATION

SCALE: 3/16" = 1'-0"



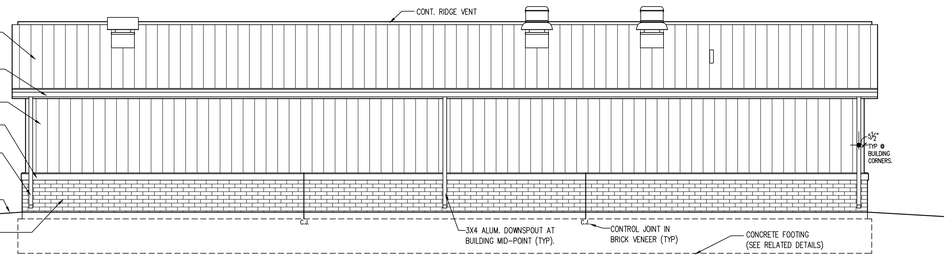
2 A3.0 ELEVATION

SCALE: 3/16" = 1'-0"



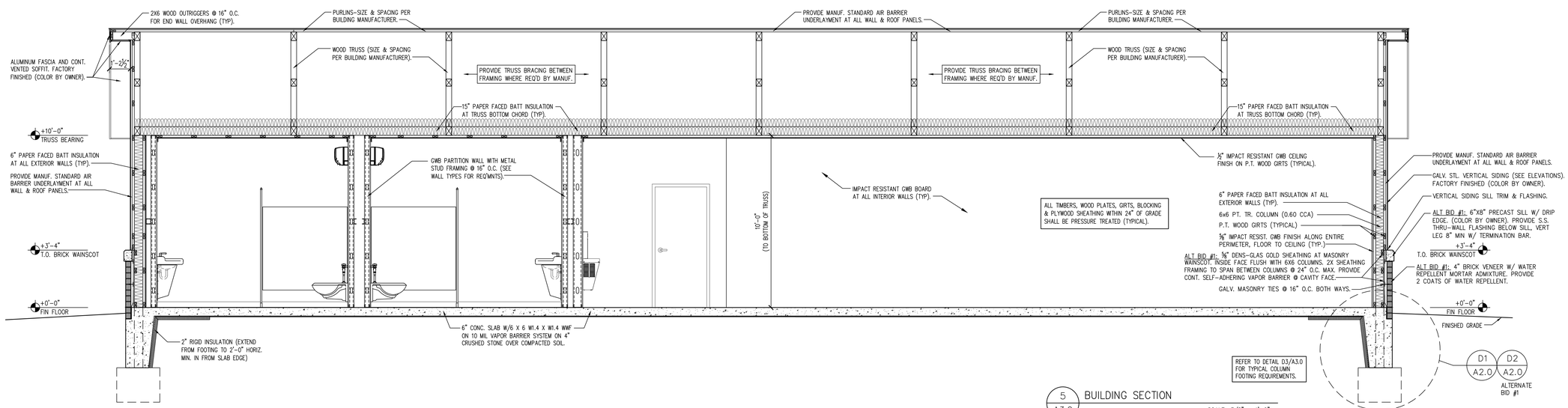
3 A3.0 ELEVATION

SCALE: 3/16" = 1'-0"



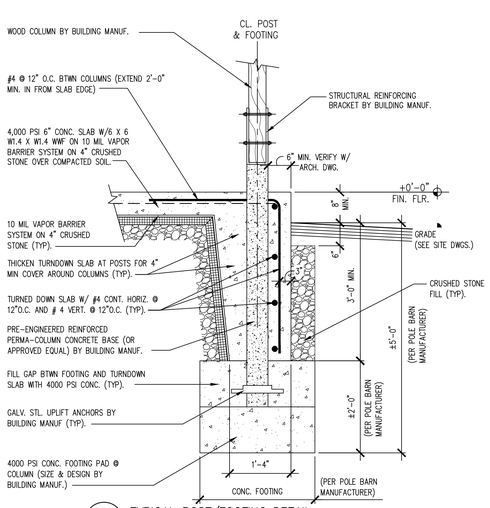
4 A3.0 ELEVATION

SCALE: 3/16" = 1'-0"



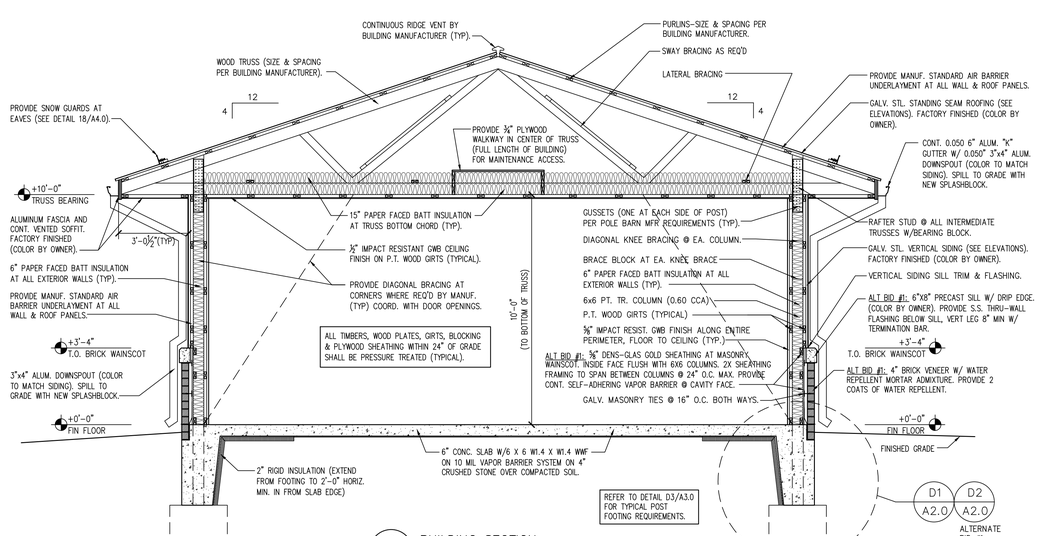
5 A3.0 BUILDING SECTION

SCALE: 3/8" = 1'-0"



D3 A3.0 TYPICAL POST/FOOTING DETAIL

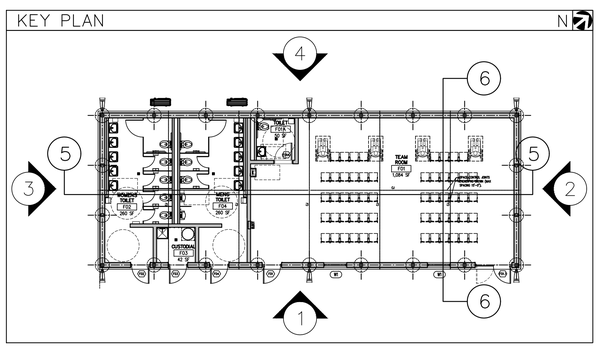
SCALE: 3/4" = 1'-0"



6 A3.0 BUILDING SECTION

SCALE: 3/8" = 1'-0"

KEY PLAN



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REVISIONS
a.
b.
c.

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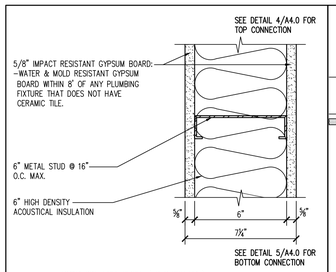
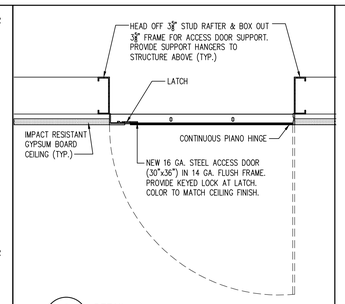
ELEVATIONS & BUILDING SECTIONS
A3.0

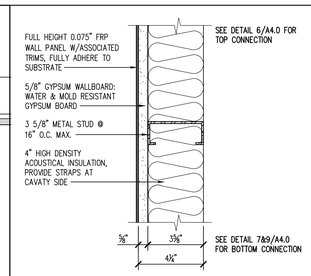


TERMINATION: FULL HEIGHT (TO STRUCTURE)
MIN. STC 50

1 A4.0 DETAIL SCALE 3"=1'-0"
7 1/4" METAL STUD WALL
NOTE: NO FIRE RATING REQUIRED.

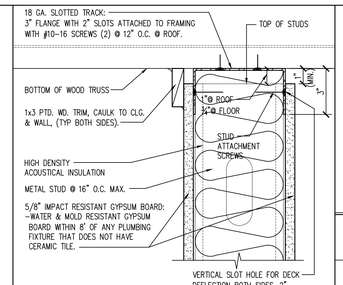


2 A4.0 DETAIL NTS
EXTERIOR ACCESS DOOR
NOTE: NO FIRE RATING REQUIRED

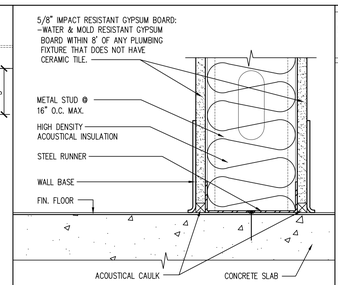


TERMINATION: FULL HEIGHT (TO UNDERSIDE OF TRUSS)
MIN. STC 45

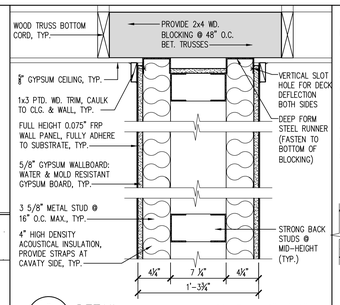
3 A4.0 DETAIL SCALE 3"=1'-0"
4 1/4" METAL STUD CHASE WALL
NOTE: NO FIRE RATING REQUIRED



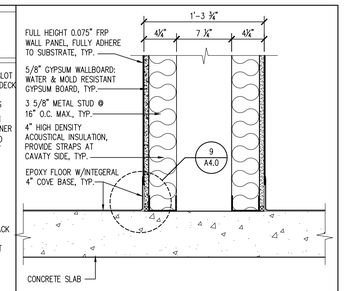
4 A4.0 DETAIL SCALE 3"=1'-0"
STUD WALL AT STRUCTURAL DECK



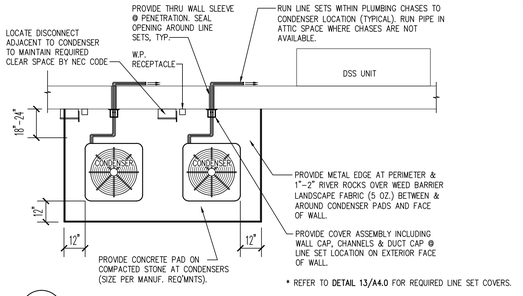
5 A4.0 DETAIL SCALE 3"=1'-0"
STUD WALL AT FLOOR
SEE OTHER DETAILS FOR FIRE RATING



6 A4.0 DETAIL SCALE 1 1/2"=1'-0"
TYPICAL CHASE WALL AT TOP CONNECTION
NOTE: NO FIRE RATING REQUIRED

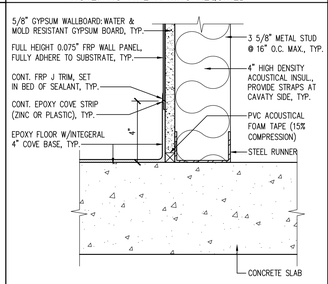


7 A4.0 DETAIL SCALE 1 1/2"=1'-0"
TYPICAL CHASE WALL AT FLOOR CONNECTION
NOTE: NO FIRE RATING REQUIRED



* REFER TO DETAIL 13/A4.0 FOR REQUIRED LINE SET COVERS.

8 A4.0 DETAIL NO SCALE
CONDENSER ON GRADE DETAIL (NOT SCREENED WITH FENCE)

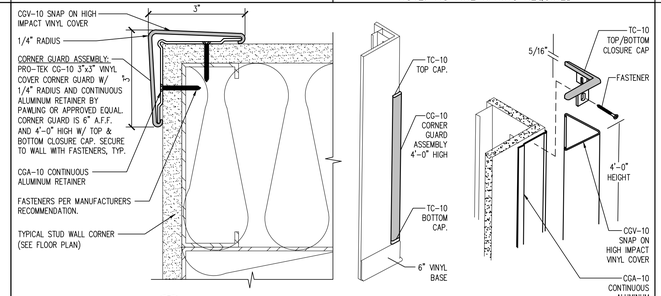


9 A4.0 DETAIL SCALE 3"=1'-0"
EPOXY COVE BASE AT FRP WALL PANEL

INTERIOR NON-BEARING GYPSUM STUD PARTITION HEIGHT LIMITATION & GAUGE TABLE

INTERIOR NON-BEARING GYPSUM STUD PARTITION			
1 5/8" STUD 16" O.C.	2 1/2" STUD 16" O.C.	3 5/8" STUD 16" O.C.	6" STUD 16" O.C.
	18 GA. UP TO 12'-6"	18 GA. UP TO 16'-6"	16 GA. UP TO 22'-0"
20 GA. UP TO 8'-10"	20 GA. UP TO 11'-6"	20 GA. UP TO 15'-0"	
SEE STRUCTURAL DRAWINGS FOR OTHER FRAMING GAUGE & SIZE			

10 A4.0 DETAIL NO SCALE
GYPSUM STUD PARTITION TABLE

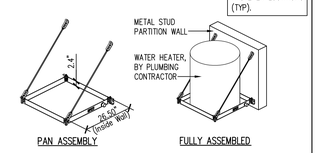


11 A4.0 DETAIL NO SCALE
TYPICAL 4'-0" HIGH CORNER GUARD PROTECTION @ GYPSUM BOARD WALLS

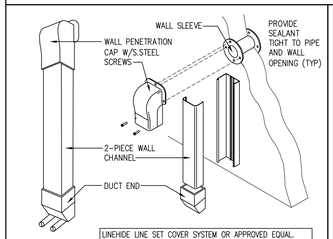
QUICKSTAND WALL MOUNTED WATER HEATER PLATFORM BY HOLDRITE
MODEL #50-SWHP-W (VERIFY WATER HEATER DIAMETER & ACCOMMODATE) OR APPROVED EQUAL.

MATERIAL:
PAN: 12 GAGE CRS, GALVANIZED
CORNER BRACKETS (4): 14 GAGE CRS, GALVANIZED
C-BRACKETS (2): 16 GAGE CRS, GALVANIZED
45° BRACKETS (4): 12 GAGE, CRS, GALVANIZED
THREADED ROD (2): LOW CARBON STEEL, ZINC PLATED, 3/8" X 37.10" LONG

PROVIDE BLOCKING BETWEEN PARTITION WALL FRAMING @ FASTENER LOCATIONS (TYP).

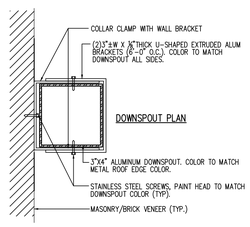


12 A4.0 DETAIL SCALE N.T.S.
WALL MOUNTED EQUIPMENT PLATFORM
SEE FLOOR PLANS FOR OCCURRENCE



LINEHIDE LINE SET COVER SYSTEM OR APPROVED EQUAL. PROVIDE SIZE CAPABLE OF ACCOMMODATING NUMBER OF PIPES. PAINT ALL EXPOSED COMPONENTS TO MATCH ADJACENT WALL COLOR OR AS SELECTED BY THE OWNER. PROVIDE ADDITION COMPONENTS INCLUDING T-JOINTS, BENDS & ELBOWS AS REQUIRED BASED ON FIELD CONDITIONS.

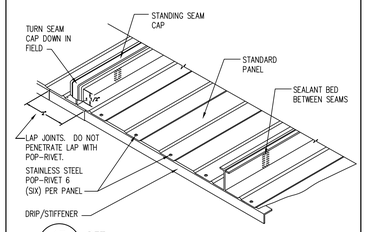
13 A4.0 DETAIL SCALE: NONE
LINE SET COVER DETAIL



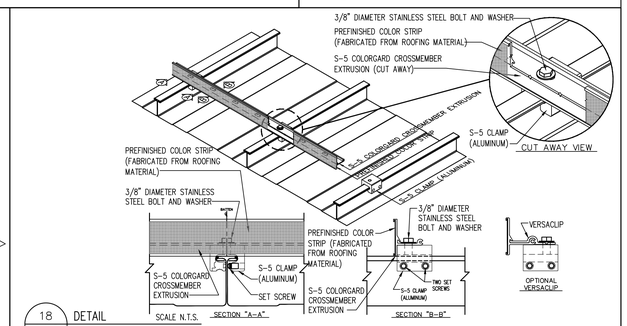
14 A4.0 DETAIL SCALE N.T.S.
DOWNSPOUT

15 A4.0 NOT USED SCALE N.T.S.

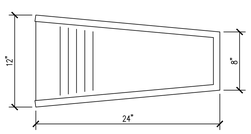
16 A4.0 NOT USED SCALE N.T.S.



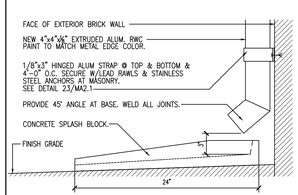
17 A4.0 DETAIL SCALE N.T.S.
STANDARD SEAM-END ENCLOSURE



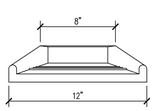
18 A4.0 DETAIL
SNOW GUARD AT EAVE



SPLASH BLOCK - PLAN



SPLASH BLOCK - SIDE ELEVATION



SPLASH BLOCK - FRONT ELEVATION

NOTE:
USE A CONRETE SPLASH BLOCK FOR GROUND APPLICATIONS.
PLACE ON WALKWAY PAD WHERE LOCATED ON ROOF SURFACE

22 A4.0 DETAIL SCALE N.T.S.
RWC CONDUCTOR WITH SPLASH BLOCK

19 A4.0 NOT USED SCALE N.T.S.

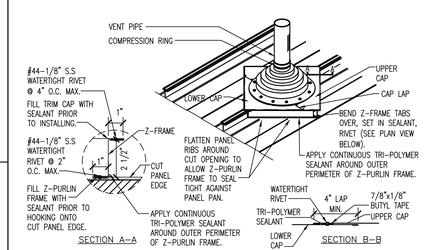
20 A4.0 NOT USED SCALE N.T.S.

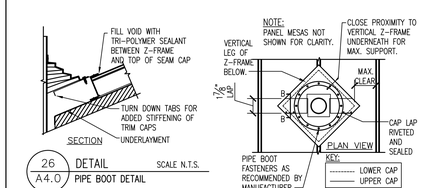
21 A4.0 NOT USED SCALE N.T.S.

23 A4.0 NOT USED SCALE N.T.S.

24 A4.0 NOT USED SCALE N.T.S.

25 A4.0 NOT USED SCALE N.T.S.

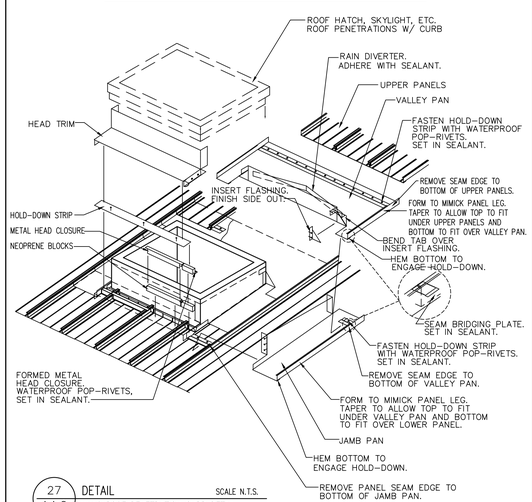




26 A4.0 DETAIL SCALE N.T.S.
PIPE BOOT DETAIL

ERECTOR NOTE:

DRY IN SUBSTRATE WITH ICE AND WATER SHIELD PRIOR TO INSTALLING PANELS. BEGIN INSTALLATION AT EAVE, WORKING UP ROOF SLOPE KEEPING IN MIND TO ALWAYS ALLOW WATER TO SHED PROPERLY. ALL EXPOSED SCREW-TYPE FASTENERS SHALL HAVE NEOPRENE WASHERS. ALL POP-RIVETS SHALL BE WATERPROOF.



27 A4.0 DETAIL SCALE N.T.S.
HVAC ROOF PENETRATION CURB DETAIL

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ARTHUR P. SCHALICK HIGH SCHOOL
2025 NEW FIELD HOUSE
718 CENTERTON ROAD, PITTSGROVE, NEW JERSEY 08318

REVISIONS
a.
b.
c.

Project No. 24-74
Date: 4/21/25
Scale: AS NOTED

WALL TYPES & ROOF DETAILS

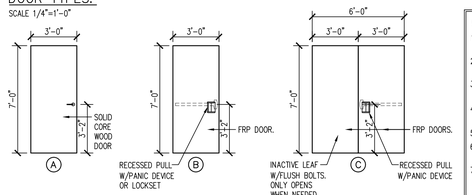
A4.0

DOOR AND FRAME SCHEDULE

ALTERNATE BID #	DOOR NUMBER	FROM ROOM NUMBER	TO ROOM NUMBER	ROOM NAME	DOOR SIZE WIDTH	DOOR SIZE HEIGHT	DOOR MATERIAL	DOOR GAGE	DOOR TYPE	GLASS TYPE	GLASS THICKNESS	GLASS SIZE	THRESHOLD	HARDWARE SET NO.	FRAME MATERIAL	FRAME GAGE	FRAME DEPTH	FRAME TYPE	DETAILS SEE A5.0 HEAD	DETAILS SEE A5.0 JAMB	DETAILS SEE A5.0 SILL	REMARKS: FIRE RATING LABEL (MIN.)	NEW SOLID CORE WOOD DOOR (SEE GENERAL NOTE #1)	NEW HOLLOW METAL FRAME (SEE GENERAL NOTE #2)	NEW A.D.A. DOOR HARDWARE (SEE GENERAL NOTE #3)	NEW FRP DOORS (SEE GENERAL NOTE #4)	NEW ALUMINUM DOOR FRAMES (SEE GENERAL NOTE #5)	NEW CARD READER ACCESS (SEE HARDWARE SCHEDULE)
ALTERNATE BID #2 – FIELD HOUSE																												
–	F01	F01	EXTERIOR	TEAM ROOM	3'–0"	7'–0"	FRP	–	B	–	–	–	ALUM	F–02	ALUM	–	4 1/2"	2	4	5&6	7	–			✓	✓	✓	✓
–	F01.1	F01	EXTERIOR	TEAM ROOM	(2)3'–0"	7'–0"	FRP	–	C	–	–	–	ALUM	F–01	ALUM	–	4 1/2"	3	4	5&6	7	–			✓	✓	✓	
ALT#2	F01A	F01	F01A	TOILET ROOM	3'–0"	7'–0"	SCWD	–	A	–	–	–	–	F–03	HM	16	8 3/8"	1	1	2	3	–	✓	✓	✓			
–	F02	F02	EXTERIOR	WOMEN'S TOILET ROOM	3'–0"	7'–0"	FRP	–	B	–	–	–	ALUM	F–02.1	ALUM	–	4 1/2"	2	4	5&6	7	–			✓	✓	✓	
–	F03	F03	EXTERIOR	CUSTODIAL CLOSET	3'–0"	7'–0"	FRP	–	B	–	–	–	ALUM	F–02.1	ALUM	–	4 1/2"	2	4	5&6	7	–			✓	✓	✓	
–	F04	F04	EXTERIOR	MEN'S TOILET ROOM	3'–0"	7'–0"	FRP	–	B	–	–	–	ALUM	F–02.1	ALUM	–	4 1/2"	2	4	5&6	7	–			✓	✓	✓	

DOOR TYPES:

SCALE 1/4"=1'-0"

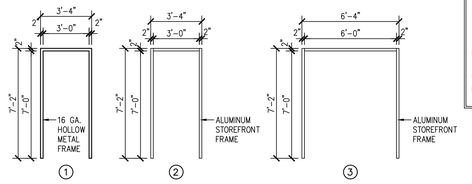


GENERAL NOTES:

1. ALL NEW WOOD DOORS TO BE SOLID CORE WOOD, FINISH TO BE SELECTED BY OWNER.
2. ALL NEW HOLLOW METAL FRAMES TO BE PAINTED, COLOR TO BE SELECTED BY OWNER. PROVIDE WELDED FRAMES.
3. ALL DOOR HARDWARE TO BE A.D.A. COMPLIANT WITH UCC BARRIER FREE CODE IN CONJUNCTION WITH ICC/ANSI A117.1–2017.
4. NEW FRP (FIBERGLASS REINFORCED POLYESTER) DOORS. COLOR TO BE SELECTED BY OWNER. (INTERIOR & EXTERIOR FACES ARE SEPARATE COLORS.)
5. NEW ALUMINUM STOREFRONT FRAMES. COLOR TO BE SELECTED BY OWNER.
6. ALL NEW INTERIOR DOORS SHOWN ON THE DOOR SCHEDULE SHALL RECEIVE NEW ROOM SIGNAGE. SEE ROOM FINISH SCHEDULE, TYPICAL.
7. STOREFRONT SHALL BE DESIGNED TO MEET IBC 2021 CODE REQUIREMENTS FOR WIND LOADS, SEE SPECIFICATIONS. CONTRACTOR TO SUBMIT SIGNED & SEALED, BY N.J. P.E., SHOP DRAWINGS, CALCULATIONS & FASTENING PATTERNS TYP.

FRAME TYPES:

SCALE 1/4"=1'-0"



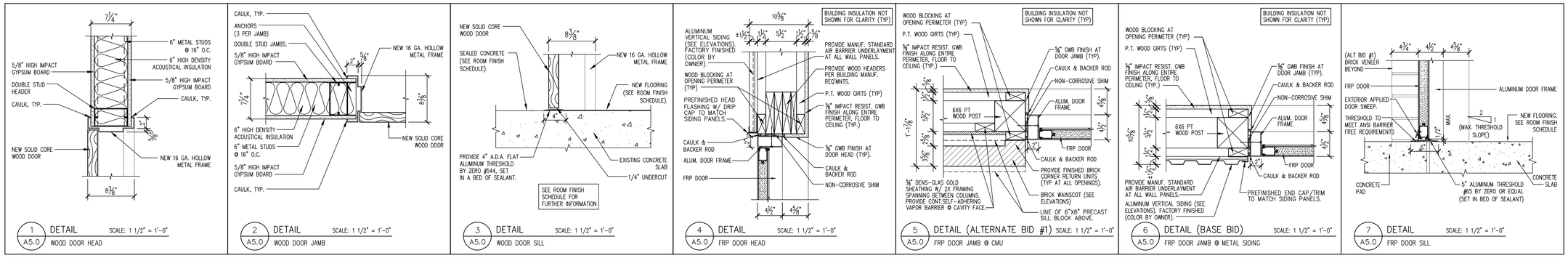
HARDWARE NOTES:

A. PROVIDE INSTALLATION OF PERMANENT CORES AND REMOVAL OF TEMPORARY CORES. PROVIDE A CERTIFIED ARCHITECTURAL HARDWARE CONSULTANT (CAHC) INSPECTION TWO WEEKS AFTER OWNER OCCUPANCY, SIX MONTHS AFTER OWNER OCCUPANCY AND ONE YEAR AFTER OWNER OCCUPANCY.

B. DOOR FRAMES SHALL BE PREPARED FOR SPECIFIED HARDWARE AND REINFORCED WHERE REQUIRED, TYPICAL.

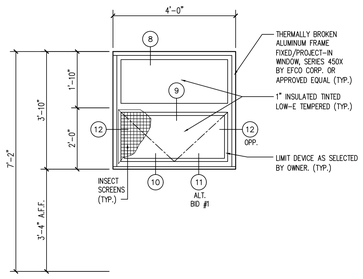
C. MATCH OWNER'S STANDARD FOR HARDWARE, TYPICAL.

D. PRIOR TO CONSTRUCTION, PROVIDE HARDWARE SUBMITTAL FOR ALL DOORS, TYPICAL.



EXTERIOR WINDOW TYPES:

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

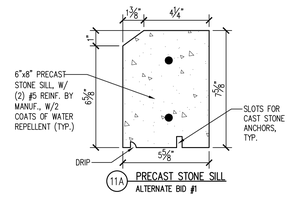


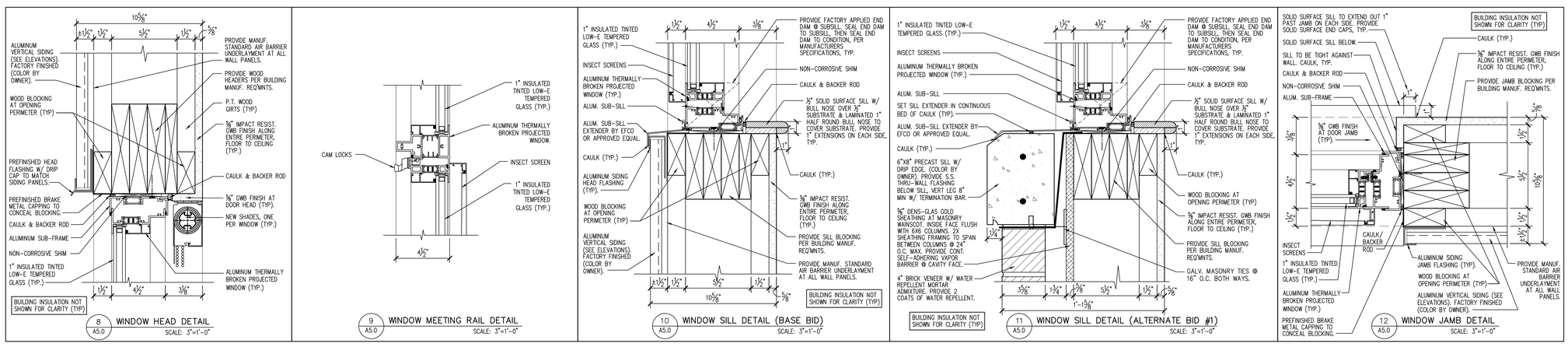
W1 WINDOW TYPE

SCALE: 1/2"=1'-0"
FIXED/PROJECT-IN

GENERAL NOTES:

1. WINDOWS SHALL BE DESIGNED TO MEET IBC 2021 CODE REQUIREMENTS FOR WIND LOADS. SEE SPECIFICATIONS. CONTRACTOR TO SUBMIT SIGNED & SEALED, BY N.J. P.E., SHOP DRAWINGS, CALCULATIONS & FASTENING PATTERNS, TYPICAL
2. CONTRACTOR SHALL VISIT THE SITE AND BUILDING TO DETERMINE ACTUAL FIELD CONDITIONS AND QUANTITIES OF MATERIALS. NO COMPENSATION WILL BE ALLOWED FOR FAILURE TO DETERMINE ACTUAL FIELD CONDITIONS.
3. WHEN ALUMINUM SYSTEMS ARE IN DIRECT CONTACT WITH PRESSURE TREATED WOOD:
   A. USE NON-CORROSIVE SHIMS BETWEEN THE ALUMINUM SYSTEM & THE TREATED WOOD.
   B. USE ONLY STAINLESS STEEL FASTENERS, SEE SPECS.
   C. DO NOT USE CA OR ACQ TREATED LUMBER FOR WOOD BLOCKING.
4. ALL CAULKING SHOULD BE SILICONE SEALANT. (SEE SPECIFICATIONS)
5. ALL TOILET ROOMS, LOCKER ROOMS OR PRIVATE AREAS SHALL HAVE OBSCURED GLAZING IN WINDOWS THAT FACE THE EXTERIOR, TYPICAL.
6. PROVIDE NEW INTERIOR WINDOW SHADES AT ALL WINDOW OPENINGS, TYPICAL. (SEE SPECIFICATIONS)
7. ALL JOINTS BETWEEN CAST STONE & BRICK SHALL BE CAULKED & BACKER ROD, WITH SILICONE SEALANT, TYPICAL. (NO MORTAR JOINTS)
8. PROVIDE NINE (9) INCH HIGH AND (0.5) INCH STROKE WIDTH WHITE REFLECTIVE VINYL WINDOW SIGNAGE ON EVERY WINDOW INDICATING THE ROOM NUMBER. PLACE SIGNAGE AT THE TOP RIGHT SIDE OF EVERY WINDOW TYPE.
9. ALL EXPOSED STEEL LINTELS, BEAMS, ETC. SHALL BE PRIMED & PAINTED PER SPECIFICATIONS BEFORE THE NEW WINDOW IS INSTALLED, TYPICAL.
10. WINDOWS WHERE OPERATING HARDWARE IS 6'–0" A.F.F OR HIGHER:
    PROVIDE POLE-RING LOCKING HARDWARE & POLES TO OPERATE SASH. IF WINDOWS HAVE INTERNAL BLINDS, PROVIDE POLE-RING BLIND KNOB OPERATOR & SEPARATE SWIVEL POLES TO OPERATE INTERNAL BLINDS, TYPICAL.





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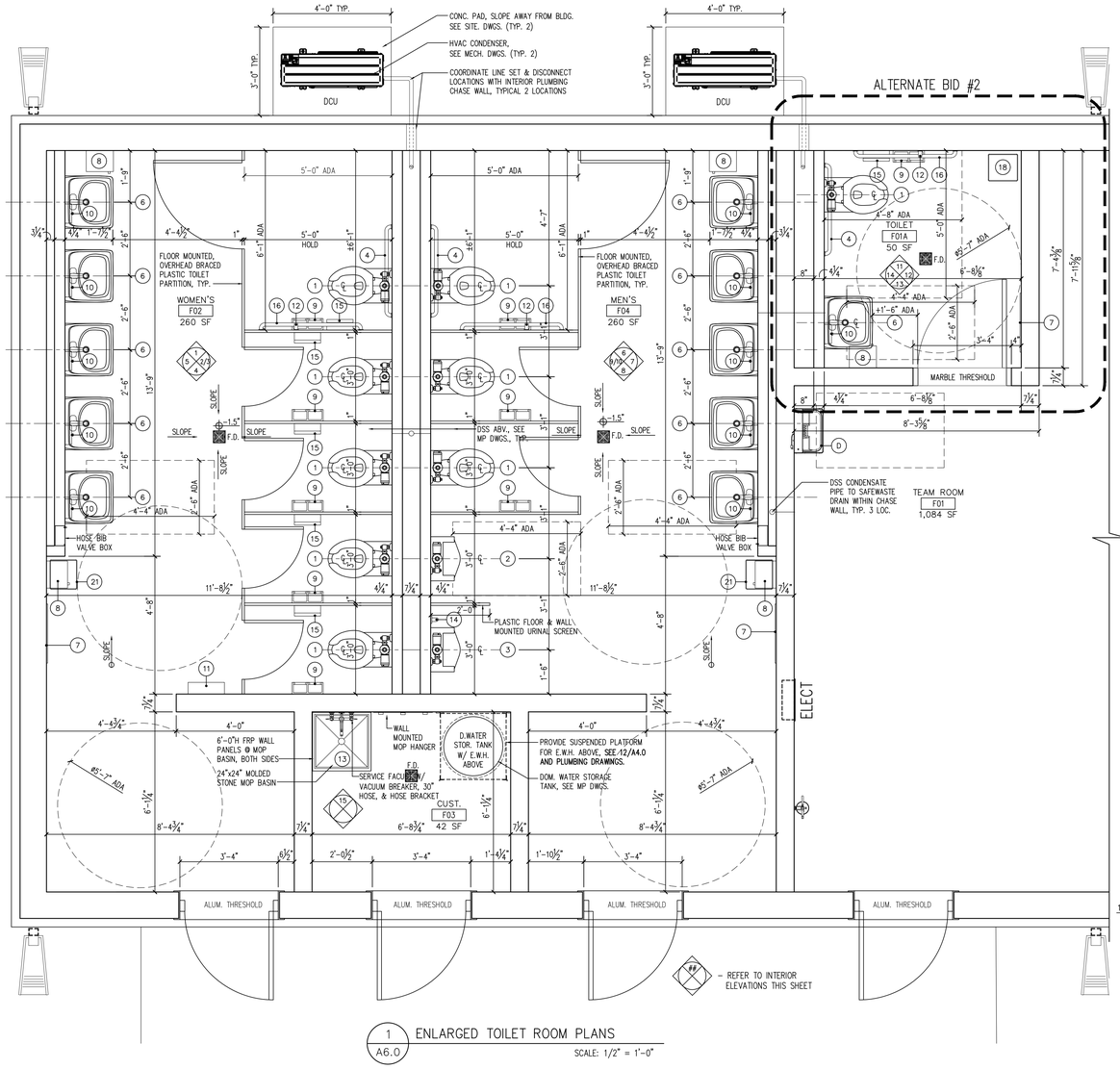
DOOR SCHEDULE & WINDOW TYPES

A5.0



1 A6.0 ENLARGED TOILET ROOM PLANS

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

ALL PLUMBING FIXTURES & ACCESSORIES TO MEET CABO/ANSI BARRIER FREE CODE. ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR. REINFORCE TOILET PARTITION BETWEEN HANDICAP STALL & REGULAR STALL TOE CLEARANCE OF TOILET PARTITION TO BE 12" A.F.F. (TYP.) ALL TOILET ROOM & CUSTODIAL CLOSET TO HAVE FLOOR DRAIN. ALL TILET ROOM WET WALLS TO HAVE FULL HEIGHT FRP PANELS. PROVIDE BLOCKING FOR ACCESSORIES IN ALL STUD WALLS.

ALL PLANS, DETAILS, SECTIONS, SCHEDULES & ELEVATIONS SHOWN ON THIS DRAWING ARE TO BE COMPLETED BY THE GENERAL CONTRACTOR. UNLESS IT IS INDICATED BY OTHER TRADES, WHICH ARE TO BE COMPLETED BY THAT DESIGNATED TRADE.

MATERIAL LIST:

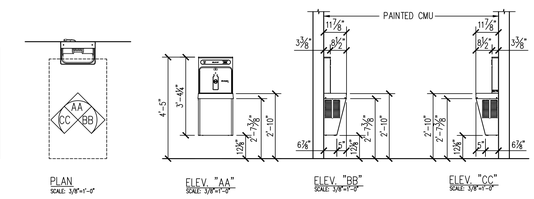
- (A) NOT USED
- (B) NOT USED
- (C) FLOOR MOUNTED, OVERHEAD BRACED PLASTIC TOILET PARTITION
- (D) ELECTRIC BOTTLE FILLING STATION (SEE DETAILS THIS SHEET & SPECS.)
- (E) FLUID APPLIED EPOXY FLOORING w/INTEGRAL 4"H BASE (SEE SPECS.)
- (F) NEW DOOR (SEE DOOR SCHEDULE FOR FRAME REQUIREMENTS)
- (G) PLASTIC FLOOR & WALL MOUNTED URINAL SCREEN (SEE SPECS.)
- (H) LAY-IN CEILING TILE (SEE SPECS.)
- (J) NOT USED
- (K) NOT USED
- (L) NOT USED
- (M) NOT USED
- (N) NOT USED
- (O) NOT USED
- (P) PROVIDE FULL HEIGHT FRP WALL PANELS.
- (Q) IMPACT RESISTANT GYPSUM BOARD WALLS, PAINTED.
- (R) NOT USED
- (S) WALL MOUNTED DUCTLESS MINI-SPLIT, CONDENSATE DRAIN TO SAN. LINE THRU WET WALL. SEE MP DWGS.
- (T) PAINTED HARD CEILING, SEE SPECS.

FIXTURE/ACCESSORY LIST: BY GENERAL CONTRACTOR

1. ELONGATED FLUSH VALVE WALL HUNG TOILET. BY PLUMBING CONTRACTOR.
2. HANDICAPPED WALL HUNG URINAL. BY PLUMBING CONTRACTOR.
3. WALL HUNG URINAL. BY PLUMBING CONTRACTOR.
4. STAINLESS STEEL HORIZONTAL GRAB BAR 36"x1 1/2" DIA. w/SATIN FINISH. BOBRICK "B-6806x36" OR EQUAL
5. NOT USED
6. WALL HUNG LAVATORY w/ACCESSIBLE LEVER HANDLE FAUCET. PROVIDE LAV. SHIELD TRUEBRO, INC. MODEL#2018-AS-L1 OR EQUAL BY PLUMBING CONTRACTOR
7. 24"x60" MIRROR w/STAINLESS STEEL FRAME & TEMPERED GLASS. BOBRICK "B-1658 2460" OR EQUAL
8. PAPER TOWEL DISPENSER. SUPPLIED BY OWNER, INSTALLED BY G.C.
9. TOILET TISSUE DISPENSER. SUPPLIED BY OWNER, INSTALLED BY G.C.
10. TOUCH-FREE HAND SOAP DISPENSER. SUPPLIED BY OWNER, INSTALLED BY G.C.
11. SURFACE MOUNTED NAPKIN/TAMPON VENDOR SUPPLIED BY OWNER, INSTALLED BY G.C.
12. STAINLESS STEEL VERTICAL GRAB BAR 18"x1 1/2" DIA. w/SATIN FINISH. BOBRICK "B-6806x18" OR EQUAL
13. MOLDED STONE MOP BASIN W/SERVICE FACUET, HOSE, HOSE BRACKET & WALL MOUNTED MOP HANGERS
14. STAINLESS STEEL VERTICAL GRAB BAR 24"x1 1/2" DIA. w/SATIN FINISH. BOBRICK "B-6806x24" OR EQUAL
15. SURFACE MOUNTED SANITARY NAPKIN DISPOSAL. SUPPLIED BY OWNER, INSTALLED BY G.C.
16. STAINLESS STEEL HORIZONTAL GRAB BAR 36"x1 1/2" DIA. w/SATIN FINISH. BOBRICK "B-6806x42" OR EQUAL
17. NOT USED
18. WASTEBASKET. LOCATED IN SINGLE TOILET ROOMS. SUPPLIED BY OWNER, INSTALLED BY G.C.
19. NOT USED
20. NOT USED
21. WASTE RECEPTACLE. SUPPLIED BY OWNER, INSTALLED BY G.C.

REFRIGERATED SURFACE MOUNT BOTTLE FILLING STATION FILTERED: 8GPH STAINLESS STEEL MODEL ezH20 #LZ8WSSSMC (FILTERED BOTTLE FILLING STATION ONLY) BY ELKAY OR APPROVED EQUAL. SEE SPECIFICATIONS)

NOTE: ALL PLUMBING FIXTURES SUPPLIED & INSTALLED BY PLUMBING CONTRACTOR.



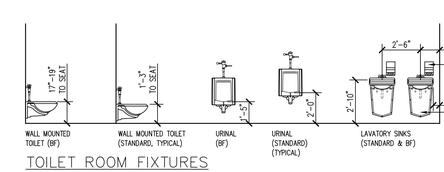
PLAN SCALE: 3/8"=1'-0"

ELEV. "AA" SCALE: 3/8"=1'-0"

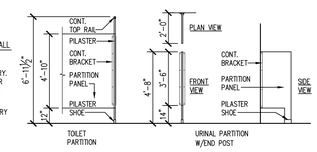
ELEV. "BB" SCALE: 3/8"=1'-0"

ELEV. "CC" SCALE: 3/8"=1'-0"

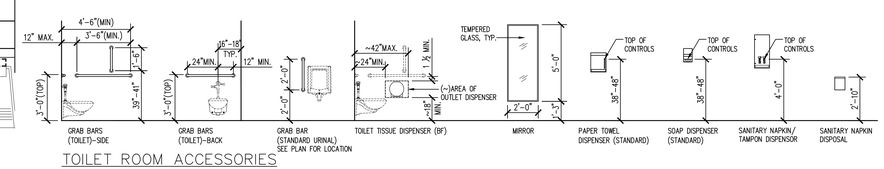
ELECTRIC BOTTLE FILLER STATION



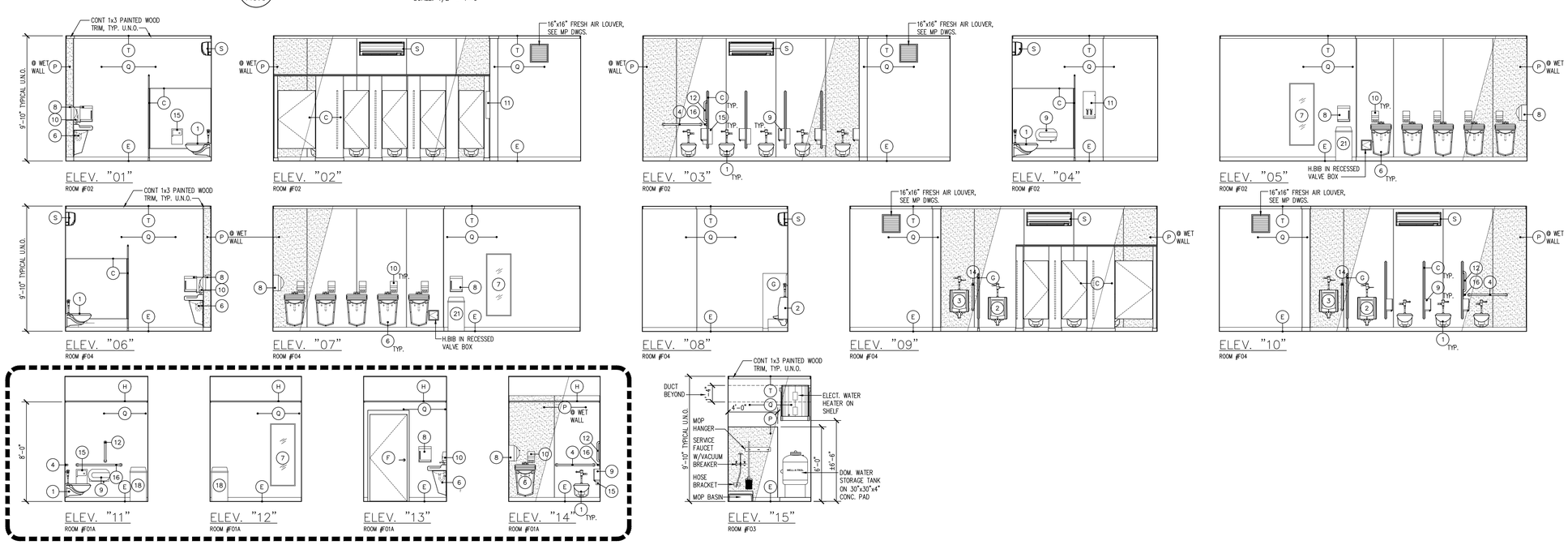
TOILET ROOM FIXTURES



TOILET ROOM PARTITIONS



TOILET ROOM ACCESSORIES



ELEV. "01" ROOM #F02

ELEV. "02" ROOM #F02

ELEV. "03" ROOM #F02

ELEV. "04" ROOM #F02

ELEV. "05" ROOM #F02

ELEV. "06" ROOM #F04

ELEV. "07" ROOM #F04

ELEV. "08" ROOM #F04

ELEV. "09" ROOM #F04

ELEV. "10" ROOM #F04

ELEV. "11" ROOM #F01A

ELEV. "12" ROOM #F01A

ELEV. "13" ROOM #F01A

ELEV. "14" ROOM #F01A

ELEV. "15" ROOM #F03

ALTERNATE BID #2

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ENLARGED TOILET ROOM PLANS & ELEVATIONS

A6.0

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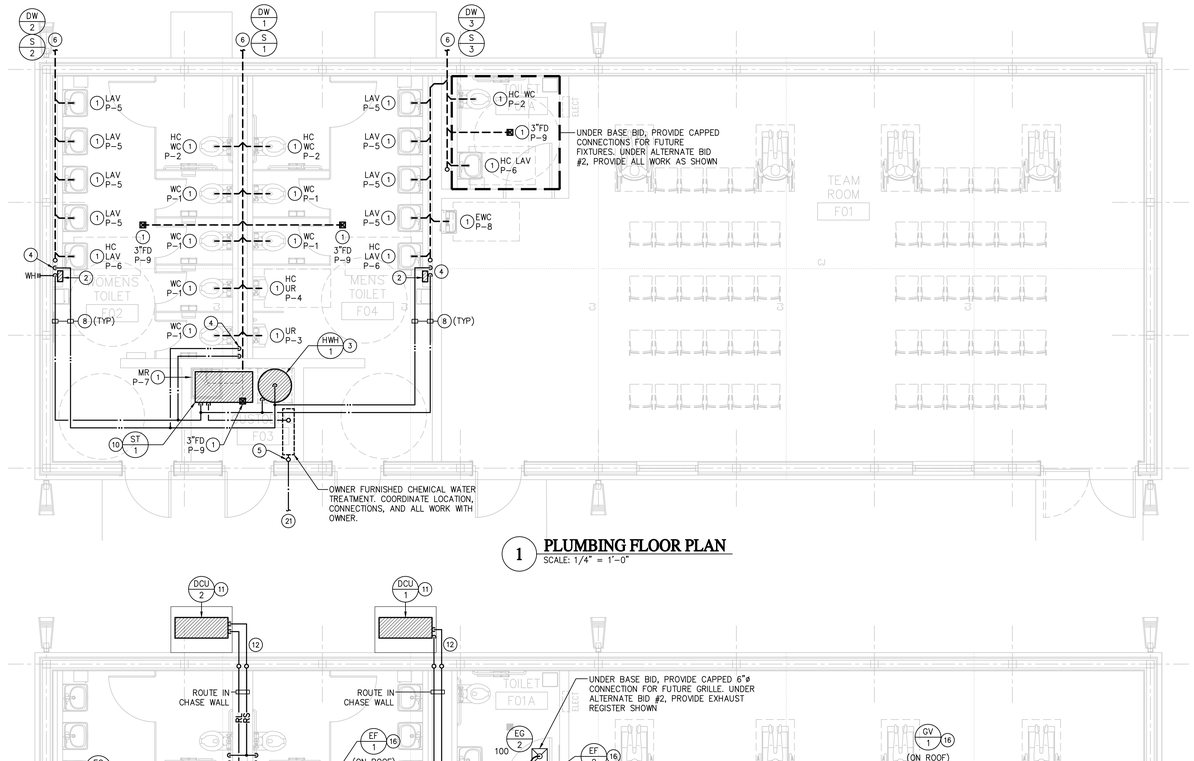
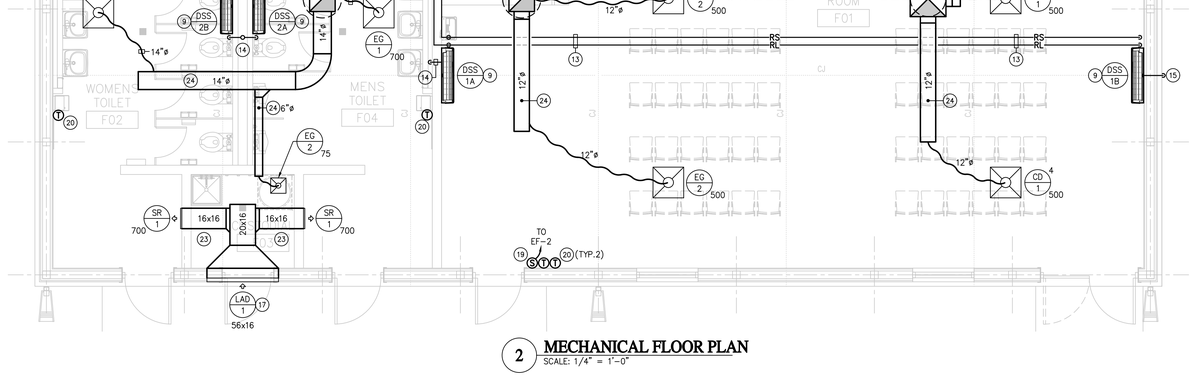
ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET
FOR ALL NOTES REFER TO NOTES ON FMP-2

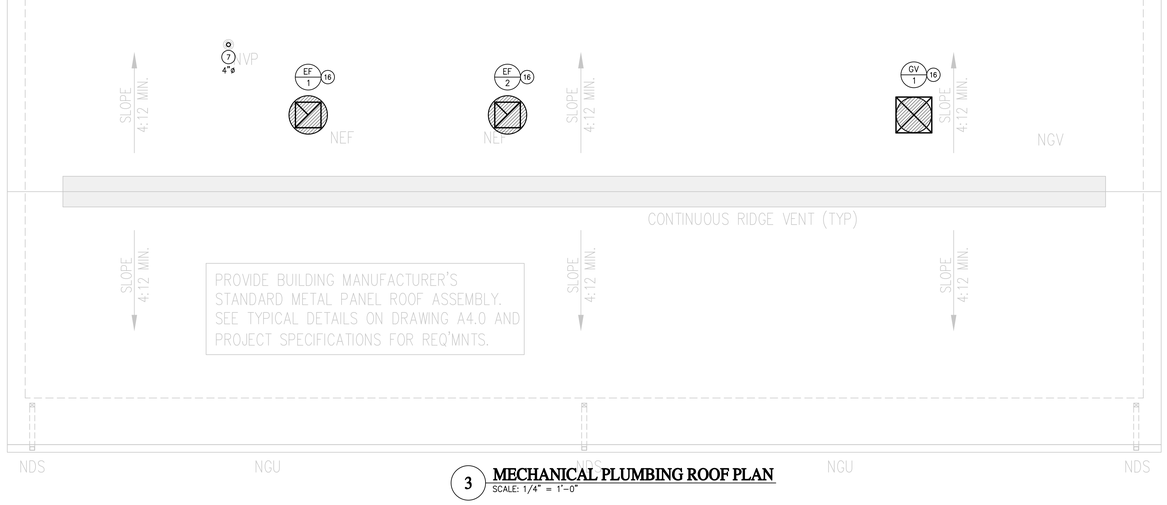
ALL WORK BY PLUMBING CONTRACTOR U.N.O.
ALL WORK NEW U.N.O.
FOR RISER DIAGRAMS SEE SHEET FMP-2



1 PLUMBING FLOOR PLAN
SCALE: 1/4" = 1'-0"



2 MECHANICAL FLOOR PLAN
SCALE: 1/4" = 1'-0"



3 MECHANICAL PLUMBING ROOF PLAN
SCALE: 1/4" = 1'-0"

ISSUED FOR BID: 04/21/2025

GARRISON ARCHITECTS
A Professional Corporation of Architects and Planners
713 CREEK ROAD, BELLMAWR, NEW JERSEY 08031 (856) 396-6200

PITTSGROVE TOWNSHIP SCHOOL DISTRICT
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ARTHUR P. SCHALICK HIGH SCHOOL
2025 NEW FIELD HOUSE
718 CENTERTON ROAD, PITTSGROVE, NEW JERSEY 08318

REVISIONS
a.
b.
c.

Project No. 24-74
Date: 4/11/25
Scale: AS NOTED

MECHANICAL & PLUMBING FLOOR PLANS

FMP-1

SHEET NOTES

1 NEW PLUMBING FIXTURE. TYPE AS INDICATED.

2 PROVIDE RECESSED AND LOCKABLE STAINLESS STEEL DUAL TEMPERATURE WALL HYDRANT (WATTS MODEL HY-700). PROVIDE 3/4" DIA. HOT AND COLD DOMESTIC WATER CONNECTIONS.

3 PROVIDE HOT WATER HEATER ON SHELF. REFER TO DETAIL.

4 DOMESTIC WATER PIPING DOWN IN CHASE.

5 DOMESTIC WATER PIPE UP FROM BELOW GRADE. PROVIDE HEAT TRACE FOR ALL PIPE BETWEEN ENTRY AND SHUTOFF VALVE.

6 SANITARY PIPE TO SEPTIC SYSTEM. REFER TO SITE PLANS FOR CONTINUATION.

7 NEW VENT THRU ROOF. SIZE AS INDICATED.

8 SLOPE ALL DOMESTIC WATER TO DRAINAGE POINT.

9 WALL MOUNTED DUCTLESS SPLIT INDOOR UNIT. MOUNT HIGH ON WALL. PROVIDE PIPE COVER FOR ALL EXPOSED PIPE CONNECTIONS.

10 PROVIDE PRESSURIZED STORAGE TANK FOR INCOMING DOMESTIC WATER FROM WELL SYSTEM. LOCATE HIGH IN SPACE. VERIFY EXACT LOCATION IN FIELD. PROVIDE DRAIN PIPE TO FLOOR DRAIN WITH SHUTOFF VALVE.

11 NEW CONDENSING UNIT AT GRADE ON CONCRETE PAD. VERIFY EXACT LOCATION.

12 ROUTE NEW REFRIGERANT PIPE THRU EXTERIOR WALL AND UP IN PLUMBING CHASE TO ABOVE CEILING. COORDINATE PIPE, ROUTE WITH PLUMBING PIPING. PROVIDE LINESET COVER FOR ALL EXTERIOR REFRIGERANT PIPING.

13 REFRIGERANT PIPE ABOVE CEILING. VERIFY EXACT ROUTE IN FIELD.

14 3/4" DIA. CONDENSATE PIPE TO SAFEWASTE DRAIN. PROVIDE MINIMUM 1-1/2" AIR GAP.

15 DISCHARGE 3/4" DIA. CONDENSATE PIPE DOWN TO GRADE. ANGLE PIPE AWAY FROM BUILDING.

16 EXHAUST FAN OR GRAVITY VENTILATOR ON ROOF. PROVIDE SLOPE ADJUSTED ROOF CURB. DUCT SHALL BE FULL SIZE OF ROOF OPENING.

17 LOUVER WITH AUTOMATIC DAMPER. INTERLOCK WITH ASSOCIATED EXHAUST FAN.

18 SHOCK ABSORBER ABOVE CEILING. PROVIDE ACCESS PANEL.

19 PROVIDE 0-4 HOUR TIMER SWITCH INTERLOCKED WITH EXHAUST FAN.

20 NEW THERMOSTAT AND/OR HUMIDISTAT. VERIFY EXACT LOCATION IN FIELD. NOTE - DO NOT LOCATE BY HEAT GENERATING SOURCE, I.E., COMPUTER MONITOR, ETC.

21 PROVIDE SHUTOFF VALVE AND COMPRESSED AIR INLET FOR BLOW OUT. VERIFY EXACT LOCATION IN FIELD.

22 PROVIDE SHUTOFF VALVE FOR DRAINAGE AND BLOW OFF OF DOMESTIC WATER SYSTEM. SLOPE ALL PIPE TO DRAINAGE POINTS. PROVIDE THREADED HOSE CONNECTION ON OUTLET. PROVIDE ACCESS PANEL FOR VALVE IN CHASE WHERE APPLICABLE.

23 DUCT EXPOSED IN SPACE.

24 DUCT ABOVE CEILING, VERIFY EXACT ROUTE IN FIELD.

PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE TYPE	ABBREV	FIXTURE UNIT VALUE	CONNECTION SIZES (TRAP) SAN	VENT	HW	CW	REMARKS
WATER CLOSET	WC	6	4	2	–	1¼	FLUSH VALVE
URINAL	UR	4	3	1½	–	1	
LAVATORY	LAV	1	1¼	1¼	½	½	
ELECTRIC WATER COOLER	EWC	½	1¼	1¼	–	½	
FLOOR DRAIN	FD	4	3	1½	–	–	DEEP SEAL TRAP W/ QUAD SEAL
MOP RECEPTOR	MR	3	3	3	¾	¾	

ELECTRIC HOT WATER HEATER SCHEDULE

SYMBOL HWH

NO.	STORAGE CAPY GALS.	HEATING CAPY KW	REMARKS
1	47	4.5	BRADFORD WHITE MODEL LE250LN3-3 MOUNT UNIT ON SHELF

DOMESTIC WATER STORAGE TANK SCHEDULE

SYMBOL ST

NO.	SIZE GAL.	HIEGHT	DIA.	REMARKS
1	53	45"	24"	AMTROL MODEL WELL-X-TROL WX-447C FULL ACCEPTANCE HORIZONTAL BLADDER WELL TANK

GRAVITY VENTILATOR SCHEDULE

SYMBOL GV

NO.	CFM	E.S.P.	REMARKS
1	1000	0.05	COOK MODEL 16TR W/ SLOPE ADJUSTED ROOF CURB, BACKDRAFT DAMPER AND AUTOMATIC DAMPER INTERLOCKED WITH EF-2

SUPPLY/EXHAUST FAN SCHEDULE

SYMBOL EF SF

NO.	CFM	S.P.	RPM	H.P.	TYPE	REMARKS
1	1400	0.5"	1550	1/2	ROOF MOUNTED CENTRIFUGAL	COOK MODEL ACE-D 135C15D W/ SLOPE ADJUSTED ROOF CURB & BACKDRAFT DAMPER
2	1100	0.5"	1550	1/4	ROOF MOUNTED CENTRIFUGAL	COOK MODEL ACE-D 120C15D W/ SLOPE ADJUSTED ROOF CURB & BACKDRAFT DAMPER

PROVIDE FAN SPEED CONTROLLERS FOR ALL DIRECT DRIVE FANS.
PROVIDE VIBRATION ISOLATION HANGERS FOR ALL CEILING/INLINE MOUNTED FANS
NOTE:
EF-1: INTERLOCK WITH BUILDING TIMER. ALLOW OWNER TO ADJUST OPERATING HOUR VIA BMS.
EF-2 INTERLOCK WITH 0-4 HOUR TIMER SWITCH AND LIGHTING OCCUPANCY SENSOR. OCCUPANCY SENSOR SHALL TAKE PRECEDENCE.

AIR DEVICE SCHEDULE

NO.	CD	LID	SR / SG	RR / RG	ER / EG	LAD / LBD	WMS	REMARKS
1	12"ø		16x16		24x24	56x16		CD-1 24x24 W/ 12"ø NECK
2					12x12			

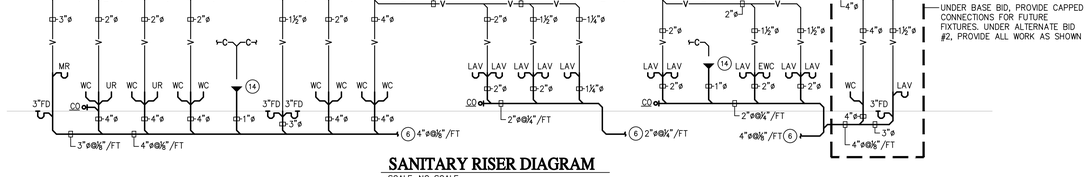
(CD) X - INDICATES NUMBER OF BLOWS
XXX - INDICATES AMOUNT OF CFM

DUCTLESS SPLIT SYSTEM SCHEDULE

SYMBOL DSS DCU

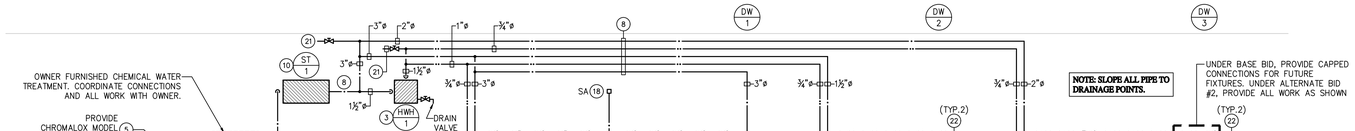
NO.	COOLING CAPY BTU	HEATING CAPY BTU	INDOOR UNIT CARRIER MODEL	CFM @ HIGH	TYPE	REMARKS
1A	18,000	18,000	40MAHBQ18XA3	420	WALL MOUNTED	DCU-1: 3 TON CARRIER MODEL 38MGHBQ36DA3
1B	18,000	18,000	40MAHBQ18XA3	420	WALL MOUNTED	
2A	12,000	12,000	40MAHBQ12XA3	400	WALL MOUNTED	DCU-2: 2 TON CARRIER MODEL 38MGHBQ24CA3
2B	12,000	12,000	40MAHBQ12XA3	400	WALL MOUNTED	

PROVIDE REFRIGERANT PIPE PER MANUFACTURERS REQUIREMENTS.
MAINTAIN MANUFACTURE'S REQUIRED CLEARANCES FOR ALL INDOOR AND OUTDOOR UNITS.



SANITARY RISER DIAGRAM

SCALE: NO SCALE



DOMESTIC WATER PIPING DETAIL

SCALE: NO SCALE

MULHERN and ASSOCIATES, Incorporated
321 South York Road
Hatboro, Pennsylvania 19040
Phone: (215) 293-9900
Fax: (215) 293-9214

ALL NOTES ON PLANS MAY NOT BE ON THIS SHEET FOR ALL NOTES REFER TO NOTES ON FMP-2

ALL WORK BY PLUMBING CONTRACTOR U.N.O.
ALL WORK NEW U.N.O.
FOR RISER DIAGRAMS SEE SHEET FMP-2

MECHANICAL LEGEND

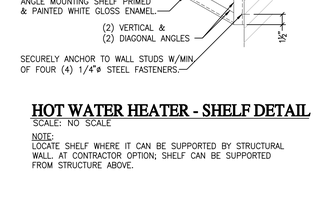
A/L	ACOUSTICALLY LINED
AP	ACCESS PANEL
ACD	ACCESS DOOR
ADR	AUTOMATIC DAMPER
BDD	BACK DRAFT DAMPER
BTJ	BETWEEN THE JOISTS
CS	CHILLED WATER SUPPLY
CR	CHILLED WATER RETURN
CD	CEILING DIFFUSER
CU	CONDENSING UNIT
DBR	DOWN BLOW REGISTER
DL	DOOR LOUVER
DN	DOWN
DX	DIRECT EXPANSION COIL
(E)	EXISTING
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ER	EXHAUST REGISTER
FDR	FIRE DAMPER
FVAV	FAN POWERED VAV UNIT
GV	GATE VALVE
HR	HOT WATER HEATING RETURN
HS	HOT WATER HEATING SUPPLY
LAD	LOUVER/AUTO DAMPER
LBD	LOUVER/BACKDRAFT DAMPER
LID	LINEAR DIFFUSER
LMD	LOUVER/MANUAL DAMPER
LVR	LOUVER
MUA	MAKEUP AIR UNIT
MVD	MANUAL VOLUME DAMPER
OAI	OUTSIDE AIR INTAKE
RG	RETURN GRILLE
RR	RETURN REGISTER
SG	SUPPLY GRILLE
SF	SUPPLY FAN
SR	SUPPLY REGISTER
SDR/FDR	SMOKE/FIRE DAMPER
TF	TRANSFER FAN
TWJ	THROUGH WEB OF JOIST
TYP	TYPICAL (OF QUANTITY)
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME TERMINAL UNIT
VVT	VARIABLE AIR VOLUME TEMPERATURE UNIT
WMS	WIRE MESH SCREEN

—C—	CONDENSATE PIPE
—HWS—	HOT WATER HEATING SUPPLY (SYSTEM)
—HWR—	HOT WATER HEATING RETURN (SYSTEM)
—CHWR—	CHILLED WATER RETURN (SYSTEM)
—CHWS—	CHILLED WATER SUPPLY (SYSTEM)
—CWR—	CONDENSER WATER RETURN
—CWS—	CONDENSER WATER SUPPLY
—R—	REFRIGERANT PIPE
	GATE VALVE
	CHECK VALVE
	RELIEF VALVE
	CONTROL VALVE
	AUTOMATIC THREE-WAY VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	AUTOMATIC TWO-WAY VALVE
	PLUG OR BALL VALVE
	BALANCING VALVE
	STRAINER
	UNION
H	HUMIDISTAT
S	SWITCH
TH	HEATING THERMOSTAT
THC	HEATING & COOLING THERMOSTAT
TC	COOLING THERMOSTAT
	THERMOMETER
	PRESSURE GAUGE W/GAUGE COCK
AAV	AUTOMATIC AIR VENT
	FLEXIBLE CONNECTION
	NEW CONNECTION TO EXISTING
	POINT OF DEMOLITION
	DUCT REDUCER

PLUMBING LEGEND

3CS	(3) COMPARTMENT SINK
ACD	ACCESS DOOR
AD	AREA DRAIN
BT	BATHTUB
CO	CLEANOUT
DC	DENTAL CHAIR
DN	DOWN
DF	DRINKING FOUNTAIN
DSW	DISHWASHER
DSHWR	DISHWASHER
EWC	ELECTRIC WATER COOLER
FH	FUME HOOD
FPS	FOOD PREP SINK
FS	FLOOR SINK
GS	GREASE INTERCEPTOR
HCLS	HANDICAPPED LAB STATION/SINK
HD	HUB DRAIN
HS	HAND SINK
HTUB	HYDRO THERAPY TUB
HWS	HAIR WASH SINK
INV.EL.	INVERT ELEVATION
IS	INSTRUCTORS TABLE/SINK
LAV	LAVATORY
LS	LAB STATION/SINK
MR	MOP RECEPTOR
MR	MOP RECEPTACLE
MH	MANHOLE
MV	MIXING VALVE
OI	OIL INTERCEPTOR
PEDSK	PEDICURE SINK
PS	PREP ROOM SINK
RWC	RAINWATER CONDUCTOR
SHWR	SHOWER
SI	SAND INTERCEPTOR
STK	STACK
SS	SERVICE SINK
UNO	UNLESS NOTED OTHERWISE
UR	URINAL
V	VENT
VTR	VENT TO ROOF
WC	WATER CLOSET
WS	WASH STATION

—A—	COMPRESSED AIR
	COLD WATER
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RETURN
— — —	SANITARY SEWER
— — S — —	STORM WATER
—V—	VENT PIPING
—F—	FIRE PROTECTION PIPE
—VAC—	VACUUM PIPE
—DCA—	DENTAL COMPRESSED AIR
—AR—	ACID RESISTANT PIPE
—ARV—	ACID RESISTANT VENT
	SPRINKLER HEAD
	CLEANOUT
	FLOOR DRAIN
	GATE VALVE
	CHECK VALVE
	RELIEF VALVE
	AUTOMATIC THREE-WAY VALVE
	GLOBE VALVE
	PRESSURE REDUCING VALVE
	AUTOMATIC TWO-WAY VALVE
	GAS COCK
	STRAINER
	SIAMESE CONNECTION
	UNION
	THERMOMETER
	PRESSURE GAUGE W/GAUGE COCK
HWH(HB)	WALL HYDRANT (HOSE BIBB)
	NEW CONNECTION TO EXISTING
	POINT OF DEMOLITION
SA	SHOCK ABSORBER
	BALANCING VALVE



HOT WATER HEATER - SHELF DETAIL

SCALE: NO SCALE

NOTE:
LOCATE SHELF WHERE IT CAN BE SUPPORTED BY STRUCTURAL WALL. AT CONTRACTOR OPTION; SHELF CAN BE SUPPORTED FROM STRUCTURE ABOVE.

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Project No. 24-74
Date: 4/11/25
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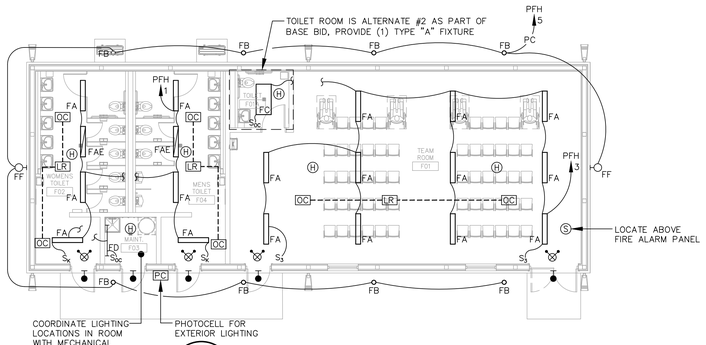
MECHANICAL & PLUMBING RISERS, NOTES, & SCHEDULES

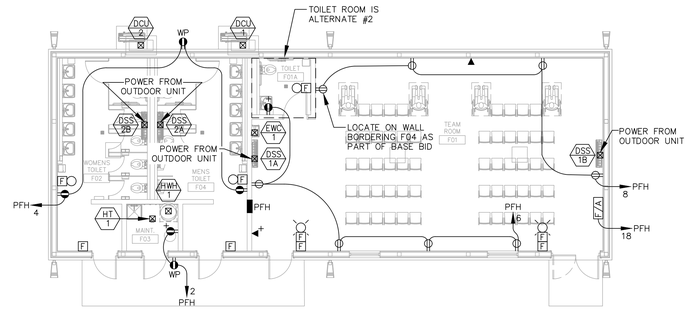
FMP-2

MULHERN Consulting Engineers
and ASSOCIATES, Incorporated
321 South York Road
Hatboro, Pennsylvania 19040
Phone: (215) 293-9900
www.MulhernEngineers.com
MCE #E7570



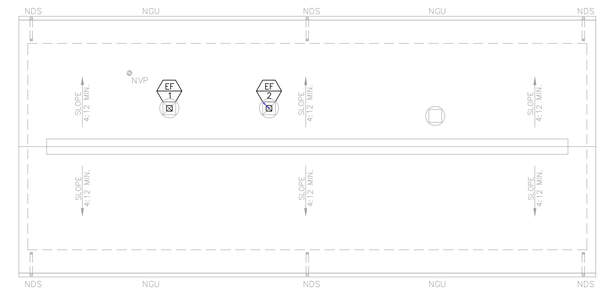
1 / E1 LIGHTING PLAN

GRAPHIC SCALE (FEET)



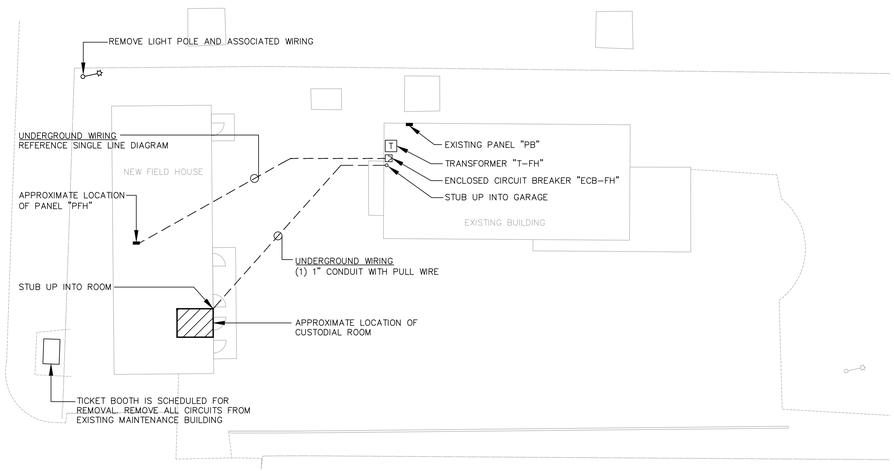
2 / E1 POWER PLAN

GRAPHIC SCALE (FEET)



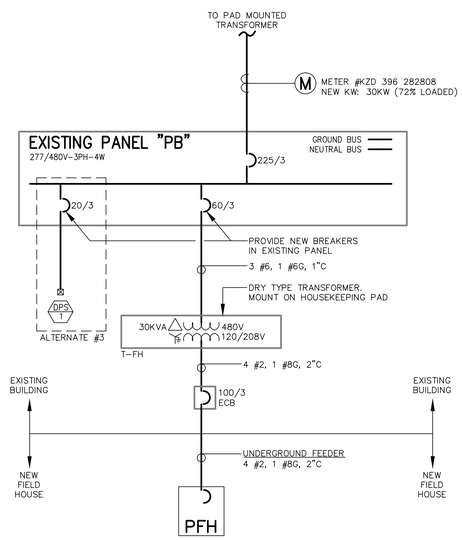
3 / E1 ROOF ELECTRICAL PLAN

GRAPHIC SCALE (FEET)



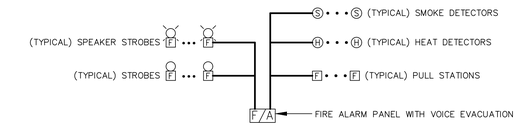
4 / E1 FIELD HOUSE PARTIAL ELECTRICAL SITE PLAN

GRAPHIC SCALE (FEET)



5 / E1 SINGLE LINE DIAGRAM

SCALE: N.T.S. MAXIMUM DEMAND ON SERVICE PER AC ELECTRIC: 132KW (158 AMPS)



6 / E1 FIRE ALARM RISER DIAGRAM

SCALE: N.T.S.

1. REFERENCE DRAWINGS FOR DEVICE QUANTITIES
2. INCLUDE COSTS FOR INSTALLATION DRAWINGS SIGNED AND SEALED BY NJ PROFESSIONAL ENGINEER. PROVIDE ALL REQUIRED BATTERY CALCULATIONS AND VOLTAGE DROP CALCULATIONS

PANEL "PN4"
277/480V-3PH-200AMP
FED FROM PANEL "MDP"
CIRCUIT #1,3,5

SAMPLE PANEL ENGRAVED LABEL

"AC #5"
480V-3PH
FED FROM PANEL "LG2"
CIRCUIT #31, 33, 35

SAMPLE MECHANICAL UNIT ENGRAVED LABEL

LIST OF ELECTRICAL ALTERNATES

BASE BID:

THE BASE BID INCLUDES ALL WORK INDICATED ON THE DRAWINGS, EXCEPT WORK SPECIFICALLY INDICATED ON THE DRAWINGS OR THIS LIST OF ALTERNATES AS PART OF RESPECTIVE ELECTRICAL ALTERNATES.

ALTERNATE #2:

SUBMIT AN ALTERNATE PRICE TO PROVIDE ELECTRICAL WORK ASSOCIATED WITH TOILET ROOM F01A. REFERENCE ELECTRICAL PLANS.

ALTERNATE #3:

UNDER THE BASE BID, PROVIDE WIRING AND CONNECTIONS FOR THE DUPLEX PUMPING STATION (DPS-1) FROM PANEL PB. SUBMIT AN ALTERNATE PRICE TO PROVIDE WIRING AND CONNECTIONS TO THE DUPLEX PUMPING STATION (DPS-1) FROM PANEL SBH IN THE HIGH SCHOOL. PANEL SPH IS POWERED BY THE GENERATOR.

EQUIPMENT CONNECTION NOTES

1) EXACT DETAILS OF EQUIPMENT CONNECTIONS ARE NOT INDICATED ON THE ELECTRICAL FLOOR PLAN DRAWINGS. EQUIPMENT CONNECTIONS DETAILS ARE INDICATED ON THE EQUIPMENT CONNECTION SCHEDULES ON THE ELECTRICAL DRAWINGS. APPROXIMATE EQUIPMENT LOCATIONS ONLY ARE INDICATED ON THE FLOOR PLAN DRAWINGS.

2) THE EQUIPMENT SCHEDULES INDICATE THE EQUIPMENT NAMEPLATE ELECTRICAL CHARACTERISTICS (VOLTAGE, PHASE, AND LOAD AS WELL AS HORSEPOWER, WHERE APPLICABLE), PANEL CIRCUIT BREAKER AMPERES, LOCAL DISCONNECTING MEANS (CORD-AND-PLUG [INCLUDING NEMA CONFIGURATION] OR SWITCH), AND CIRCUIT WIRE AND CONDUIT.

3) PRIOR TO ROUGH-IN, VERIFY EXACT POINT OF ELECTRICAL CONNECTION TO EACH PIECE OF EQUIPMENT IN THE FIELD TO AVOID PLACING SERVICE AT THE WRONG LOCATION.

4) ELECTRICAL INFORMATION SHOWN IS BASED ON NAMEPLATE AND/OR CATALOG CUT INFORMATION, AND IS ACCURATE TO THE BEST OF THE KNOWLEDGE OF THE ENGINEER AND OWNER. HOWEVER, NO GUARANTEES ARE MADE TO ITS ACCURACY. VERIFY EXACT ELECTRICAL, OPERATING, AND CONNECTION CHARACTERISTICS AND REQUIREMENTS IN THE FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT (PANEL BRANCH CIRCUIT BREAKERS, RECEPTACLES, SWITCHES, ETC.) AND PRIOR TO PULLING WIRING IN CONDUITS AND/OR ROUGHING-IN CABLE WIRING METHODS (WHERE PERMITTED).

5) PROVIDE CIRCUIT BREAKERS IN PANELS AS PER THE BREAKER AMPS ON THE EQUIPMENT SCHEDULES. FOR EXACT CIRCUITING AND CONNECTIONS AT PANELS, REFER TO THE APPROPRIATE PANEL SCHEDULES.

6) PROVIDE ALL EQUIPMENT WITH A LOCAL DISCONNECTING MEANS, CONSISTING OF ONE OF THE FOLLOWING, AS INDICATED ON THE EQUIPMENT SCHEDULE.

7) PROVIDE CIRCUIT WIRING AND CONDUIT FROM THE APPROPRIATE PANEL (REFER TO PANEL SCHEDULES) TO THE EQUIPMENT (PASSING THROUGH ANY APPLICABLE CONTROLS AND LOCAL DISCONNECTING MEANS) AS PER THE EQUIPMENT SCHEDULES. PROVIDE INDIVIDUAL NEUTRAL (WHERE APPLICABLE) AND EQUIPMENT GROUNDING CONDUCTORS WITH EACH CIRCUIT.

8) FEED FREE STANDING EQUIPMENT UNABLE TO BE SERVED BY WIRING RUN ON/ALONG WALLS OR COLUMNS WITH CONDUIT FROM THE CEILING OR UNDER THE FLOOR, SUITABLY SUPPORTED.

EQUIPMENT CONNECTION SCHEDULE

EQUIP NUMBER	DESCRIPTION	RATED VOLTAGE/ PHASE	LOAD (VA)	HORSE POWER	BREAKER AMPS/ POLES	PANEL (OR SOURCE)	PLUG-IN RECEPTACLE NEMA CONFIG	DISCONNECT SWITCH AMPS/POLES	CIRCUIT	REMARKS
EF-1	EXHAUST FAN	120V-1PH	1,176	1/2	20/1	PFH	N/A	O/L SWITCH, WP	3 # 12, 3/4"C	
EF-2	EXHAUST FAN	120V-1PH	696	1/4	20/1	PFH	N/A	O/L SWITCH, WP	3 # 12, 3/4"C	
EWC-1	ELECTRIC WATER COOLER	120V-1PH	1,500		20/1	PFH	5-20R DUPLEX GFI		3 # 12, 3/4"C	RECEPTACLE SHALL BE ACCEPTABLE
DCU-1	DUCTLESS SPLIT SYSTEM OUTDOOR CONDENSING UNIT	208V-1PH	8,320		60/2	PFH	N/A	60/2, WP	2 # 6, 1 # 10G, 3/4"C	
DSS-1A	DUCTLESS SPLIT SYSTEM INDOOR UNIT	208V-1PH	200		N/A	PFH	N/A	O/L SWITCH	4 # 12, 3/4"C	POWER FROM OUTDOOR UNIT
DSS-1B	DUCTLESS SPLIT SYSTEM INDOOR UNIT	208V-1PH	200		N/A	PFH	N/A	O/L SWITCH	4 # 12, 3/4"C	POWER FROM OUTDOOR UNIT
DCU-2	DUCTLESS SPLIT SYSTEM OUTDOOR CONDENSING UNIT	208V-1PH	5,096		30/2	PFH	N/A	30/2, WP	3 # 10, 3/4"C	
DSS-2A	DUCTLESS SPLIT SYSTEM INDOOR UNIT	208V-1PH	200		N/A	PFH	N/A	O/L SWITCH	4 # 12, 3/4"C	POWER FROM OUTDOOR UNIT
DSS-2B	DUCTLESS SPLIT SYSTEM INDOOR UNIT	208V-1PH	200		N/A	PFH	N/A	O/L SWITCH	4 # 12, 3/4"C	POWER FROM OUTDOOR UNIT
HWH-1	WATER HEATER	208V-1PH	4,500		30/2	PFH	N/A	30/2	3 # 10, 3/4"C	
HT-1	HEAT TRACE	120V-1PH	1,500		20/1	PFH	N/A	J-BOX	3 # 12, 3/4"C	
DPS-1	DUPLEX PUMPING STATION	480V-3PH	2,823	(2) 2 HP	20/3	SBH		CONTROL PANEL	3 # 4, 1 # 8G, 1.5"C, (1) SPARE 1.5" C	REFERENCE HIGH SCHOOL DRAWINGS FOR PANEL LOCATION

NOTES:

1) PRIOR TO ROUGH-IN OR PURCHASING ANY ELECTRICAL EQUIPMENT ASSOCIATED WITH ANY EQUIPMENT SHOWN ON THE SCHEDULE ABOVE, THE CONTRACTOR IS FULLY RESPONSIBLE FOR OBTAINING COPIES OF SHOP DRAWINGS FROM THE PARTY (INCLUDING ANY CONTRACTOR, OWNER, OR OTHERS) FURNISHING THE EQUIPMENT AND FOR COORDINATING EQUIPMENT ELECTRICAL CHARACTERISTICS WITH SHOP DRAWINGS. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION. THE CONTRACTOR IS SOLELY AND FULLY RESPONSIBLE FOR THIS COORDINATION AND IS RESPONSIBLE FOR ALL COSTS WHICH MAY RESULT FROM FAILING TO FULLY COORDINATE.

ISSUED FOR BID: 04/21/2025

GARRISON ARCHITECTS
A Professional Corporation of Architects and Planners
713 CREEK ROAD, BELLMAWR, NEW JERSEY 08031 (856) 396-6200

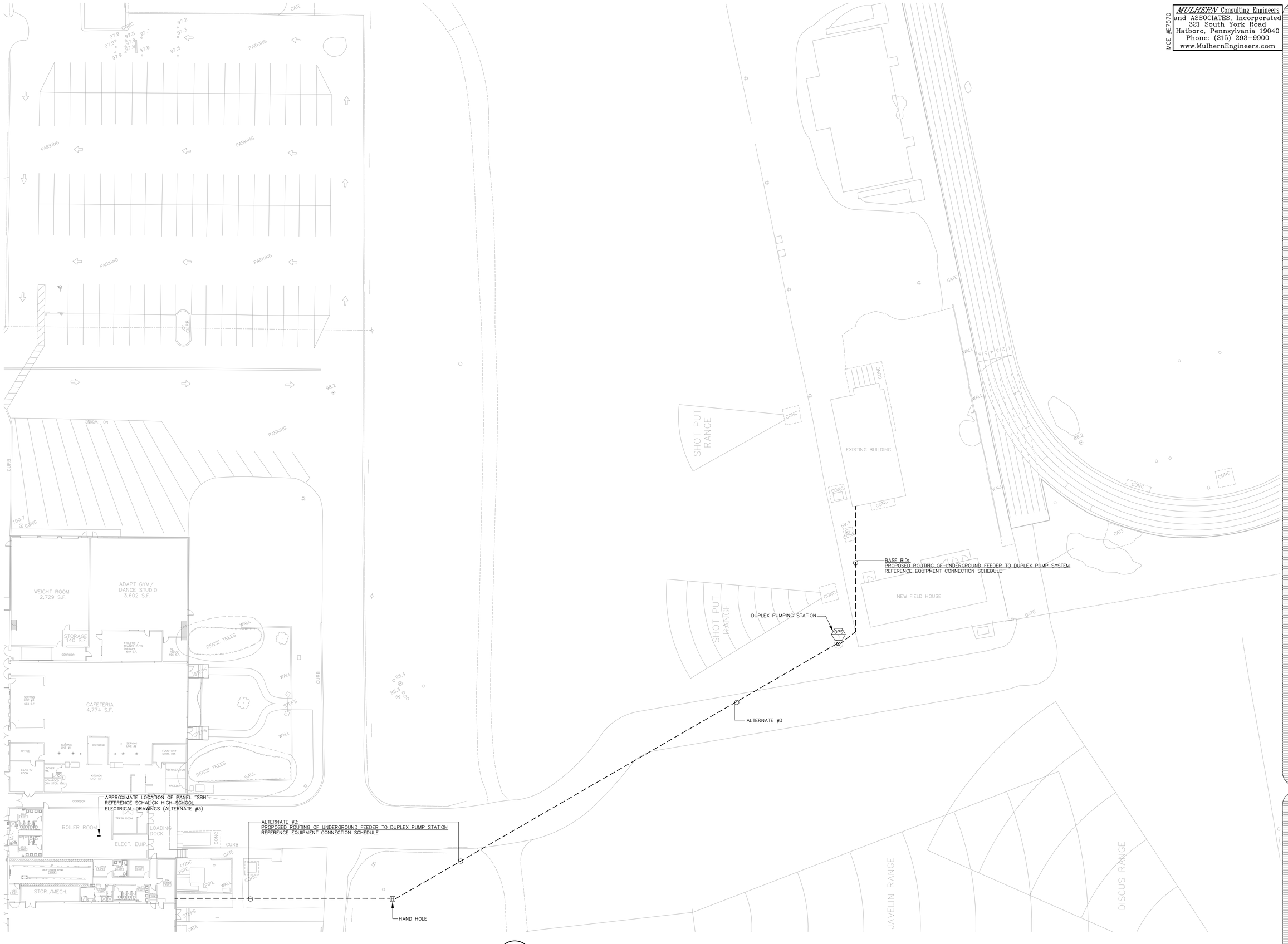
PITTSGROVE TOWNSHIP SCHOOL DISTRICT
1076 ALMOND ROAD, PITTSGROVE NEW JERSEY 08318
ARTHUR P. SCHALICK HIGH SCHOOL
2025 NEW FIELD HOUSE
718 CENTERTON ROAD, PITTSGROVE, NEW JERSEY 08318

REVISIONS
a
b. e.
c. f.

Project No. 24-74
Date: 4/11/25
Scale: AS NOTED

ELECTRICAL PLAN

E1



1 / E2 PARTIAL ELECTRICAL SITE PLAN

GRAPHIC SCALE (FEET) 20 10 0 20 60

ISSUED FOR BID: 04/21/2025

MULHERN Consulting Engineers and ASSOCIATES, Incorporated
321 South York Road
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Phone: (215) 293-9900
www.MulhernEngineers.com
MCE #E7570

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PARTIAL ELECTRICAL SITE PLAN

E2

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ELECTRICAL SYMBOL LIST

S S_3 S_4 — 20 A, 277/120 V SWITCH, SINGLE POLE (S), THREE-WAY (S-3), AND FOUR-WAY (S-4), RESPECTIVELY, SPECIFICATION GRADE, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT

S_K — 20A, 277/120V LOCKING STYLE SWITCH (S-K), SINGLE POLE, THREE-WAY, AND FOUR-WAY, RESPECTIVELY, SPECIFICATION GRADE, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, PASS & SEYMOUR #PS20AC*-*L SERIES (OR EQUIVALENT); FURNISH AND TURN OVER TO THE OWNER AT LEAST ONE (1) KEY PER SWITCH INSTALLED

S_{OC} — OCCUPANCY/VACANCY SENSOR LIGHTING CONTROL WITH INTEGRAL PUSH BUTTON (S-OC), FLUSH MOUNTED ON WALL (ON FLUSH MOUNTED OUTLET BOX), SELF-CONTAINED "STAND-ALONE" TYPE (SINGLE SENSOR FOR LOCAL LIGHTING CONTROL OF A SINGLE CIRCUIT ONLY), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE WITH INTEGRAL SWITCHING RELAY, RATED MINIMUM 800 W, 1,200 VA FOR 120 V OPERATION AND RATED MINIMUM 2,700 VA FOR 277 V OPERATION, SINGLE POLE, NOMINAL 93 m2 (1,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SELECTABLE AUTOMATIC (OCCUPANCY SENSOR WITH "OVERRIDE-TO-OFF" PUSH BUTTON) OR MANUAL (VACANCY SENSOR WITH "MANUAL-ON" PUSH BUTTON) MODES, SPECIFICATION GRADE, WHITE FINISH, COOPER/GREENGATE #ONW-D-1001-MV-* (OR EQUIVALENT BY HUBBELL, LEVITON, OR LUTRON)

[LR] — LIGHTING CONTROL RELAY MODULE [LR], INTERCONNECT (UTILIZING LOW VOLTAGE CONTROL WIRING) WITH OCCUPANCY SENSORS AS SHOWN ON THE DRAWINGS, RATED 1,800 VA FOR 120 V OPERATION AND RATED 4,800 VA FOR 277 V OPERATION, SINGLE POLE, SPECIFICATION GRADE; PROVIDE A MINIMUM OF ONE (1) RELAY PER CIRCUIT CONTROLLED (FULLY COORDINATE BETWEEN MODULE AND SENSORS AS PER MANUFACTURER AND PROVIDE EXACT QUANTITY NEEDED [INCLUDING ADDITIONAL RELAYS OR MODULES ACCORDINGLY] TO ACCOMMODATE THE SWITCHING CONTROL SHOWN ON DRAWINGS IN CONJUNCTION WITH THE QUANTITY OF CONTROLLING SENSORS INVOLVED, INTERCONNECT AUXILIARY CONTACTS FOR SIMULTANEOUS CONTROL); WHERE WALL SWITCHES (SINGLE POLE, THREE-WAY, OR FOUR-WAY) ARE INDICATED ALONG WITH OCCUPANCY SENSOR ON THE DRAWINGS, ARRANGE AND INTERCONNECT SWITCHES (AS RECOMMENDED BY OCCUPANCY SENSOR MANUFACTURER) TO OPERATE AS MANUAL "OVERRIDE-TO-OFF" UNLESS SPECIFICALLY INDICATED OTHERWISE

[OC] — OCCUPANCY SENSOR LIGHTING CONTROL [OC], FLUSH MOUNTED IN CEILING, FOR COMMON CONTROL OF LIGHTING (MULTIPLE SENSORS FOR LIGHTING CONTROL IN CONJUNCTION WITH REMOTE LIGHTING CONTROL RELAY MODULE(S), FULLY COORDINATE BETWEEN MODULE AND SENSORS AS PER MANUFACTURER), MULTI-TECHNOLOGY PASSIVE INFRARED (PIR) AND ULTRASONIC TYPE, 360 DEGREE NOMINAL 186 m2 (2,000 SQ FT) COVERAGE, MEETING NEMA WD7 STANDARD, INTEGRAL SELECTABLE AMBIENT LIGHT LEVEL SENSOR, SPECIFICATION GRADE, WHITE FINISH; PROVIDE LOW VOLTAGE CONTROL WIRING BETWEEN SENSOR AND CONTROL RELAY

○ — LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE

□ — 2 X 4 LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE

WALL MOUNTED LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE

LINEAR/RECTANGULAR LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE

LINEAR/RECTANGULAR LIGHTING FIXTURE WITH INTEGRAL EMERGENCY DRIVER, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE

"STRIP" OR "INDUSTRIAL" LIGHTING FIXTURE, TYPE AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE

COMBINATION EXIT/EMERGENCY UNIT, TYPE ("EM/EX" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE, WITH INTEGRAL BATTERY BACKUP

REMOTE EMERGENCY LIGHTING HEAD, WALL MOUNTED, TYPE ("REM" UNLESS INDICATED OTHERWISE) AS INDICATED ON THE LIGHTING FIXTURE SCHEDULE

20 A, 120 V DUPLEX RECEPTACLE (NEMA 5-20R), SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER OWNER, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (*) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN OR ABOVE BOARD

20 A, 120 V DUPLEX GROUND FAULT CIRCUIT INTERRUPTER (GFCI) TYPE/PROTECTED RECEPTACLE (NEMA 5-20R), SPECIFICATION GRADE, TAMPER RESISTANT, FLUSH MOUNTED, FINISH AND COVER PLATE AS PER ARCHITECT, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT, (WP) INDICATES WEATHER-RESISTANT TYPE RECEPTACLE MOUNTED IN A WEATHERPROOF OUTLET BOX WITH SINGLE SPRING-LATCHED WEATHERPROOF-WHILE-IN-USE COVER; FEED-THROUGH PROTECTION OF STANDARD TYPE RECEPTACLES FROM OTHER GFCI RECEPTACLES IS NOT ACCEPTABLE; PROTECTION OF STANDARD TYPE RECEPTACLES IN READILY ACCESSIBLE LOCATIONS FROM GFCI CIRCUIT BREAKERS IS NOT ACCEPTABLE (SEE BELOW FOR INACCESSIBLE RECEPTACLES); FOR INACCESSIBLE RECEPTACLES (LOCATIONS WHICH ARE NOT READILY ACCESSIBLE AS PER THE NEC, FOR EXAMPLE, WHERE LOCATED BEHIND EQUIPMENT, APPLIANCES, OR OBSTACLES) THE USE OF GFCI TYPE RECEPTACLES IS PROHIBITED AND PROTECTION OF STANDARD TYPE RECEPTACLES FROM GFCI CIRCUIT BREAKER MUST BE USED (IDENTIFY RECEPTACLES AS PROTECTED AS PER THE NEC)

QUADRUPLEX ("DOUBLE DUPLEX", "QUAD") RECEPTACLE, WITH RECEPTACLE TYPE AS INDICATED

[X] — EQUIPMENT CONNECTION [X], REFER TO THE EQUIPMENT SCHEDULE AND THE EQUIPMENT NOTES FOR INFORMATION

EQUIPMENT DESIGNATION (HEXAGON), FOR REFERENCE TO THE EQUIPMENT SCHEDULE

ENCLOSED CIRCUIT BREAKER (ECB), WITH TRIP RATING AND POLES AS INDICATED, IN NEMA-1 ENCLOSURE, (WP) INDICATES NEMA-3R ENCLOSURE

ELECTRICAL PANEL, REFER TO THE SINGLE LINE DIAGRAM AND RESPECTIVE PANEL SCHEDULE

[PC] — PHOTOCELL [PC], REFER TO SPECIFICATIONS, WALL MOUNTED

INDICATES HOME RUN OF WIRING TO PANEL AND CIRCUIT INDICATED

-PC- INDICATES PASS CIRCUIT THROUGH PHOTOCELL (-PC-)

▼ — TELEPHONE/DATA OUTLET, FLUSH MOUNTED, PROVIDE SUITABLE OUTLET BOX (OF TYPE ACCEPTABLE TO THE OWNER, INCLUDE COSTS IN BID FOR 2-GANG OUTLET) IN WALL AND 27 mm (1") CONDUIT (WITH PULL WIRE) RUN FROM OUTLET STUBBED AND CAPPED INTO NEARBY ACCESSIBLE CEILING SPACE, (+) INDICATES ABOVE COUNTER MOUNTING HEIGHT OR WALL MOUNTED TELEPHONE MOUNTING HEIGHT (COORDINATE WITH ARCHITECT/OWNER DURING CONSTRUCTION), (*) INDICATES MOUNTED HIGH ON WALL AT DISPLAY/SCREEN OR ABOVE BOARD

[F/A] — FIRE ALARM CONTROL PANEL [F/A], EST-4 CPU WITH A SMALL CABINET (3-CAB5B BACK BOX AND 4-CAB5D DOOR ASSEMBLY) OR EQUAL. ADDRESSABLE ANALOG TYPE, WITH VOICE EVACUATION AND FIREFIGHTER'S COMMUNICATIONS, WITH INTEGRAL BATTERY BACKUP, WITH INTEGRAL 80-CHARACTER (MINIMUM) KEYBOARD DISPLAY UNIT; PROVIDE A STAR LINK-FIRE-LTE CELLULAR COMMUNICATOR MOUNTED ADJACENT TO CONTROL PANEL.

[F] — FIRE ALARM AUDIO/VISUAL SPEAKER/STROBE, ADA COMPLIANT TYPE PROVIDING ADA COMPLIANT COVERAGE, WITH SYNCHRONIZED TYPE STROBE, SEMI-FLUSH MOUNTED

[F] — FIRE ALARM VISUAL ONLY STROBE, ADA COMPLIANT TYPE PROVIDING ADA COMPLIANT COVERAGE, SYNCHRONIZED TYPE, FLUSH MOUNTED

[F] — FIRE ALARM MANUAL PULL STATION [F], METAL, NON-CODED, DOUBLE ACTION TYPE, FLUSH MOUNTED, ADDRESSABLE TYPE WITH STOPPER II PROTECTIVE GUARD

(S) — FIRE ALARM SMOKE DETECTOR (S), ADDRESSABLE ANALOG PHOTOELECTRIC TYPE, WITH SUITABLE BASE

(H) — FIRE ALARM HEAT DETECTOR (H), ADDRESSABLE ANALOG TYPE, 57 DEGREES C (135 DEGREES F) FIXED AND RATE-OF-RISE (ROR) OPERATION (UNLESS INDICATED OTHERWISE), WITH SUITABLE BASE; FOR HIGH AMBIENT TEMPERATURE LOCATIONS (NORMALLY EXCEEDING 38 DEGREES C (100 DEGREES F) SUCH AS UNCONDITIONED ATTICS AND SIMILAR UNINSULATED SPACES) UTILIZE HIGH-TEMPERATURE DETECTORS AS RECOMMENDED BY THE MANUFACTURER FOR THE APPLICATION (FIXED-TEMPERATURE DETECTORS WITHOUT ROR MAY BE USED);

NATIONAL ELECTRICAL CODE (NEC), LATEST ADOPTED EDITION

ELECTRICAL CONTRACTOR (EC), REFERENCES ELECTRICAL TRADES (ALL WORK IS BY THE CONTRACTOR, DIFFERENT TRADES ARE FOR REFERENCE ONLY)

MECHANICAL CONTRACTOR (MC), REFERENCES MECHANICAL TRADES IN GENERAL (MECHANICAL, HVAC, ATC, PLUMBING, FIRE PROTECTION, ETC.), REFER TO MECHANICAL DOCUMENTS FOR DISTINCTION BETWEEN TRADES (ALL WORK IS BY THE CONTRACTOR, DIFFERENT TRADES ARE FOR REFERENCE ONLY)

GENERAL CONTRACTOR (GC), REFERENCES GENERAL CONSTRUCTION TRADES IN GENERAL (CARPENTRY, STEEL, CONCRETE, SITE, ETC.), REFER TO ARCHITECTURAL AND SITE DOCUMENTS FOR DISTINCTION BETWEEN TRADES (ALL WORK IS BY THE CONTRACTOR, DIFFERENT TRADES ARE FOR REFERENCE ONLY)

ELECTRICAL NOTES

1) PERFORM ALL WORK IN STRICT ACCORDANCE WITH THE LATEST ADOPTED EDITIONS OF THE NATIONAL ELECTRICAL CODE (NEC), OSHA REQUIREMENTS, ALL FEDERAL, STATE, AND LOCAL CODES AND ALL OWNER REQUIREMENTS.

2) INCLUDE ALL TEMPORARY POWER AND LIGHTING, PERMIT, LICENSE, AND INSPECTION COSTS IN BID.

3) VERIFY EXACT LOCATIONS AND MOUNTING OF ALL LUMINAIRES, SWITCHES, RECEPTACLES, OUTLETS, FIRE ALARM, AND OTHER EQUIPMENT WITH ARCHITECTURAL DRAWINGS AND IN THE FIELD PRIOR TO ROUGH IN.

4) VERIFY ELECTRICAL RATINGS, CONNECTION REQUIREMENTS, AND EXACT LOCATIONS OF ALL MECHANICAL AND OTHER UTILIZATION EQUIPMENT (WHERE APPLICABLE) IN FIELD PRIOR TO PURCHASING ASSOCIATED ELECTRICAL EQUIPMENT. PROVIDE A COMPLETE AND WORKING INSTALLATION.

5) THE TERM "PROVIDE" MEANS, "FURNISHED AND INSTALLED BY THE CONTRACTOR", AND THE TERMS "ELECTRICAL CONTRACTOR" AND "EC" MEAN "CONTRACTOR", UNLESS INDICATED OTHERWISE. ALL WORK INDICATED ON THE ELECTRICAL DRAWINGS AND ELECTRICAL SPECIFICATIONS IS BY THE EC (UNLESS INDICATED OTHERWISE) AND IS NEW (UNLESS INDICATED OTHERWISE).

6) COORDINATE ALL REQUIRED SHUTDOWNS WITH THE OWNER (AND UTILITY COMPANY WHERE APPLICABLE) A MINIMUM OF FOURTEEN (14) DAYS IN ADVANCE. INCLUDE ALL COSTS IN BID (DIFFERENTIAL, SHIFT, OVERTIME, PRIME, SUPPLEMENTAL, ETC.) TO PERFORM ALL SHUTDOWNS (INCLUDING SHUTDOWNS FOR AREAS WHICH MAY BE UNOCCUPIED DURING CONSTRUCTION) AFTER THE OWNER'S NORMAL BUSINESS OR WORKING HOURS (INCLUDE COSTS FOR ANY DAYS OF THE WEEK, WEEKENDS, AND HOLIDAYS) AS COORDINATED IN DETAIL WITH THE OWNER. NO EXTRA CLAIMS OR COMPENSATION WILL BE GRANTED FOR COSTS ASSOCIATED WITH PERFORMING SHUTDOWNS UNDER ANY CIRCUMSTANCE.

7) PROVIDE MOUNTING HEIGHTS OF EQUIPMENT AS PER ALL APPLICABLE LOCAL, STATE, AND FEDERAL CODES AND STANDARDS, INCLUDING ALL APPLICABLE DISABLED (HANDICAPPED) ACCESS CODES AND THE AMERICANS WITH DISABILITIES ACT (ADA). CONTACT ANY AND ALL AUTHORITIES HAVING JURISDICTION TO VERIFY REQUIRED MOUNTING HEIGHTS.

8) FOR ALL NEW CIRCUIT BREAKERS IN EXISTING BRANCH AND DISTRIBUTION PANELS, PROVIDE CIRCUIT BREAKERS MATCHING AND COMPATIBLE WITH EXISTING CIRCUIT BREAKERS. PROVIDE WITH SHORT CIRCUIT INTERRUPTING RATINGS EQUAL TO OR EXCEEDING THE HIGHEST RATED EXISTING BRANCH CIRCUIT BREAKER IN THE PANEL. CIRCUIT BREAKER TYPES INDICATED ON THE DRAWINGS (WHERE APPLICABLE) ARE GUIDES TO PRICING ONLY. VERIFY EXACT TYPE AND ALL REQUIREMENTS IN FIELD PRIOR TO RELEASING EQUIPMENT.

9) PROVIDE ENGRAVED LAMINATED PLASTIC NAMEPLATES FOR ALL ELECTRICAL EQUIPMENT.

10) PROVIDE ALL NEW FIRE ALARM VISUAL SIGNALING DEVICES (VISUAL ONLY STROBES AND STROBE PORTIONS OF COMBINATION HORN/STROBES) AS SYNCHRONIZED. PROVIDE ALL VISUAL SIGNALING DEVICES LOCATED IN THE SAME ROOM OR OTHERWISE WITHIN SIGHT SYNCHRONIZED TOGETHER (I.E. CONTROLLED BY A COMMON SYNCHRONIZING MODULE). PROVIDE ALL DEVICES OF TYPES FACILITATING SYNCHRONIZING AND PROVIDE ALL SIGNALING CIRCUITS INCLUDING SYNCHRONIZING CONTROLLERS. EXISTING VISUAL SIGNALING DEVICES ARE NOT REQUIRED TO SYNCHRONIZE WITH NEW DEVICES (UNLESS SPECIFICALLY INDICATED ON THE DRAWINGS).

11) COMPLETELY SEAL AND FIRE STOP ALL PENETRATIONS OF ALL FIRE AND/OR SMOKE RATED WALLS, FLOORS, CEILINGS, AND ANY OTHER CONSTRUCTION (INCLUDING ALL WALLS REQUIRED TO BE RATED BY CODE) TO A RATING MATCHING OR EXCEEDING THE FIRE RATING OF THE CONSTRUCTION. COMPLETELY SEAL AND WEATHERPROOF ALL PENETRATIONS OF EXTERIOR, AT OR BELOW GRADE, AND WET LOCATION WALLS AND FLOORS AND ROOF PENETRATIONS. REFER TO ARCHITECTURAL DRAWINGS AND SPECIFICATIONS FOR INFORMATION ON FIRE RATINGS OF BUILDING CONSTRUCTION AND INCLUDE ALL COSTS IN BID. COMPLY WITH AND INSTALL FIRE STOPPING IN ACCORDANCE WITH ALL APPLICABLE FIRE RATING CODES AND STANDARDS (INCLUDING THE NEC, NFPA, IBC, AND THE UL "FIRE RESISTANCE DIRECTORY").

LIGHTING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	LAMPS	REMARKS
FA	4' X 8" SURFACE MOUNTED LED	KENALL	MLHA8-48-FW-MW-CP-1-67L35K-DCC-1-DV	75W LED, 7633 LUMENS, 3500 DEG K	LIFETIME GUARANTEE ON LENS
FAE	4' X 8" SURFACE MOUNTED LED WITH INTEGRAL EMERGENCY DRIVER	KENALL	MLHA8-48-FW-MW-CP-1-67L35K-DCC-1-DV-LEL	75W LED, 7633 LUMENS, 3500 DEG K	LIFETIME GUARANTEE ON LENS, 10W EMERGENCY BATTERY BACKUP
FB	4" EXTERIOR RECESSED DOWNLIGHT	USAI	B4RD 12G1 35KS 50 S FINISH NCSM UNV D6E	12 WATTS, 1015 LUMENS, 3500 DEG K	UL LISTED FOR WET LOCATION, HOUSING TO SUIT CEILING CONSTRUCTION
					VERIFY CEILING THICKNESS BEFORE ORDERING HOUSING, COORDINATE FINISH WITH ARCHITECT
FC	2' X 4' RECESSED UNIVERSAL PANEL	RAB	EZPANFA 2X4/D10	31/40/48W, 80+CRI (NOM),	FROSTED LENS, 0-10V DIMMABLE, DLC AND DAMP LOCATION LISTING,
				3642/4609/5365LM, 3,500K,	SELECTABLE COLOR TEMPERATURE AND LIGHTING OUTPUT (SET FOR
				3745/4845/5630LM, 4,000K,	48W, 5,365LM, 3,500K)
				3600/4578/5311LM, 5,000K	
FD	WALL MOUNTED 4 FOOT LED STRIPLIGHT	COLUMBIA	LCL-4-35K-ML-E-U	42 WATTS, 5359 LUMENS	COORDINATE INSTALLATION WITH MECHANICAL SYSTEMS
FF	WALL MOUNTED LED FLOOD LIGHT	LSI INDUSTRIES	XWM FT LED 18L 40 UE BRX	50 W LED, 18,044 LUMENS, 4000 DEK K	
EM/EX	COMBINATION EXIT AND EMERGENCY LIGHT WITH	EMERGI-LITE	ELXN400R-2LED-R	(2) MR16 6V-5.4W LAMPS	CONNECT TO LOCAL LIGHTING CIRCUIT AHEAD OF ALL SWITCHING
	REMOTE CAPABILITY, RED LETTERS				
REM	REMOTE EMERGENCY BATTERY HEAD (2) HEADS, WEATHERPROOF	EMERGI-LITE	EF44 D LED WP	(2) 3.6 W LED	CONNECT TO NEAREST EM/EX

NOTES:
1) PROVIDE ALL LUMINAIRES AS UNIVERSAL 120 V AND 277 V OPERATION, UNLESS INDICATED OTHERWISE.
2) VERIFY ALL DEPTHS OF RECESSED LUMINAIRES PRIOR TO ORDERING, COORDINATE WITH CEILING DEPTHS.
3) WHERE LUMINAIRES ARE SPECIFIED OR OTHERWISE FURNISHED WITH TAMPER RESISTANT HARDWARE, SEE SPECIFICATIONS.
4) FOR ALL LUMINAIRES SHOWN ON THIS SCHEDULE WITH 0-10 V DIMMABLE DRIVERS/BALLASTS (WHEREVER 0-10 V DIMMING IS INDICATED IN THE DESCRIPTION, LAMPS, OR REMARKS ABOVE OR WHERE A CATALOG NUMBER IS USED ABOVE WHICH DENOTES 0-10 V DIMMABLE DRIVERS/ BALLASTS IN MANUFACTURER'S DATA), PROVIDE BOTH POWER WIRING AND 0-10 V CONTROL WIRING TO ALL LUMINAIRES. RUN CONTROL WIRING FROM ALL LIGHTS WITH 0-10 V DIMMABLE DRIVERS/BALLASTS TO THE RESPECTIVE DIMMER OR SWITCH CONTROLLING THE LIGHTING. WHERE DIMMERS ARE SHOWN ON THE DRAWINGS (INCLUDING COMBINATION SENSORS/DIMMERS), INTERCONNECT CONTROL WIRING WITH DIMMERS AS PER MANUFACTURER. WHERE DIMMERS ARE NOT SHOWN ON THE DRAWINGS, INSTALL CONTROL WIRING TO THE SWITCH (NON-DIMMED) LOCATION AND SAFELY INSULATE AND CAP OFF CONTROL WIRING (TO FACILITATE FUTURE REPLACEMENT OF NON- DIMMED SWITCH WITH DIMMER).
5) FOR ALL DIMMABLE LIGHTING, SEE ELECTRICAL SYMBOL LIST AND FULLY COORDINATE DIMMER COMPATIBILITY IN DETAIL WITH EACH LUMINAIRE AND EACH DIMMER MANUFACTURER (INCLUDE COSTS IN BID TO USE DIFFERENT TYPES OF DIMMER SWITCHES AS APPLICABLE FOR EACH DIFFERENT LUMINAIRE TYPE CONTROLLED).
6) FOR ALL LUMINAIRES SHOWN ON THIS SCHEDULE WITH SELECTABLE COLOR TEMPERATURE AND/OR LIGHTING OUTPUT, INITIALLY SET LIGHTS AS SHOWN ON THE SCHEDULE. INCLUDE COSTS IN BID TO ADJUST AND RE-SET SELECTABLE SETTINGS TO THE SATISFACTION OF THE OWNER TWO (2) TIMES WHICH MAY BE EITHER DURING CONSTRUCTION OR DURING THE PROJECT GUARANTEE/WARRANTY PERIOD.
7) FOR ALL LUMINAIRES SHOWN ON THIS SCHEDULE WITH DLC LISTING, PROVIDE ONLY LUMINAIRES QUALIFIED AND LISTED IN THE DESIGN LIGHTS CONSORTIUM (DLC) QUALIFIED PRODUCTS LISTING (QPL) AVAILABLE AT THE DLC WEBSITE (SEE BELOW). SUBMIT INFORMATION SHOWING LISTING IN THE DLC QLP AS PART OF SHOP DRAWINGS FOR REVIEW.
HTTP://WWW.DESIGNLIGHTS.ORG/SEARCH
8) MANUFACTURERS SHOWN ABOVE INDICATE THE BASIS OF DESIGN. OTHER MANUFACTURERS (INCLUDING, BUT NOT LIMITED, TO THOSE SHOWN IN THE LIGHTING SPECIFICATIONS) SHALL BE CONSIDERED.
9) ALL FINISH COLORS ARE SELECTED BY THE ARCHITECT/OWNER. VERIFY AND COORDINATE ANY FINISH COLORS SHOWN ABOVE SPECIFICALLY IN DETAIL WITH THE ARCHITECT/OWNER BEFORE RELEASING LIGHTS.
10) SUBMIT SAMPLES OF LUMINAIRES AND DETAILED COMPUTER-GENERATED ILLUMINATION FOOT-CANDLE CALCULATIONS IF REQUESTED BY THE OWNER OR OTHERWISE SPECIFIED.

PANEL - PFH
FOR - FIELD HOUSE POWER
LOCATION - REFERENCE PLANS
A.I.C. - 22,000 A

VOLTAGE - 120/ 208
PHASE - 3 PH-4W
MAIN - 100 A MCB
MOUNTING- RECESSED

DESCRIPTION	LTG. VA	EQUIP VA	HVAC VA	BKR AMPS	BUS CONNECTION	BKR AMPS	HVAC VA	EQUIP. VA	LTG. VA	DESCRIPTION
LIGHTING	580			20	1 | 1 | A | | 2	20	1	400		EXTERIOR/ CUSTODIAL GFTS
LIGHTING	800			20	1 | 3 | B | 4	20	1	600		EXTERIOR/ BATHROOM GFTS
EXTERIOR LIGHTING (THRU PC)	1,200			20	1 | 5 | | C | 6	20	1	1,000		TEAM RM RECEPTS
DCU-1, CONDENSING UNIT			8,320	60	2 | 7 | A | | 8	20	1	800		TEAM ROOM RECETS
					9 | B | 10	20	1	1,500		EWC-1, ELECTRIC WATER COOLER
DCU-2, CONDENSING UNIT			5,096	30	2 | 11 | | C | 12	20*	1	1,500		HT-1, HEAT TRACE*
					13 | A | | 14	20	1	1,176		EF-1, EXHAUST FAN
HWH-1, WATER HEATER			4,500	30	2 | 15 | B | 16	20	1	696		EF-2, EXHAUST FAN
					17 | | C | 18	20	1		200	FIRE ALARM PANEL
SPARE				20	1 | 19 | A | | 20	20	1			SPARE
SPARE				20	1 | 21 | | B | 22	20	1			SPARE
SPARE				20	1 | 23 | | C | 24	20	1			SPARE
SPARE				20	1 | 25 | A | | 26	20	1			SPARE
SPARE				20	1 | 27 | | B | 28	20	1			SPARE
SPARE				20	1 | 29 | | C | 30	20	1			SPARE
SPACE					31 | A | | 32					SPACE
SPACE					33 | | B | 34					SPACE
SPACE					35 | | C | 36					SPACE
SPACE					37 | A | | 38					SPACE
SPACE					39 | | B | 40					SPACE
SPACE					41 | | C | 42					SPACE
TOTALS	2,580	0	17,916			3,372	4,300	200		TOTALS

LOAD DESCRIPTION (CONNECTED/DEMAND)	CONN VA	DMD VA
LIGHTING	2,780	2,780
GENERAL POWER	4,300	2,150
HVAC EQUIPMENT	21,288	21,288
TOTAL	28,368	26,218
PERCENT LOADED	79%	73%

PANEL SCHEDULE
SHALICK HIGH SCHOOL
2025 FIELD HOUSE
718 CENTERTON ROAD
PITTSGROVE NJ

PHASE BALANCE VA	
A	9,664
B	10,006
C	8,698
TOTAL	28,368
SD (a)	554

NOTES:
1) PROVIDE PANEL WITH DOOR-IN-DOOR COVER.
* INDICATES PROVIDE GFCI BREAKER

ISSUED FOR BID: 04/21/2025

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ELECTRICAL NOTES AND DETAILS

E3