

OWNER INFORMATION:
 THE WAKE COUNTY BOARD OF EDUCATION
 FACILITIES BUILDING
 ATTN: BETTY L. PARKER, REAL ESTATE SERVICES SR. DIRECTOR
 III CORNING ROAD, SUITE 100 CARY, NC 27518
 SITE ADDRESS: SWIFT CREEK ELEMENTARY SCHOOL
 5601 TRYON ROAD
 RALEIGH, NC 27606
 5701 TRYON ROAD
 RALEIGH, NC 27606
 6223 YATES MILL POND ROAD
 RALEIGH, NC 27606
 6229 YATES MILL POND ROAD
 RALEIGH, NC 27607

N/F
 BEE SAFE CAMPBELL ROAD, LLC
 D.B. 17404, PG. 552
 B.O.M. 1995, PG. 12
 PIN: 0772863165
 ZONING: GCCU

N/F
 THE WAKE COUNTY BOARD OF EDUCATION
 SWIFT CREEK ELEMENTARY SCHOOL
 D.B. 15625, PG. 1724
 D.B. 17377, PG. 1227
 D.B. 18048, PG. 465
 B.M. 2019, PG. 327
 B.M. 2020, PG. 1557
 SEE: D.B. 15910, PG. 386
 SEE: D.B. 17468, PG. 1418
 SEE: D.B. 17577, PG. 1797
 PIN: 0772859767
 ZONING: R-40W
 ACRES: 15.578 ACRES

N/F
 B.F. SANDERS
 D.B. 274, PG. 363
 PIN: 0772854991
 ZONING: R-40W
 (CEMETERY PER B.O.M. 1997, PG. 2160)

N/F
 TITUS LEON BROWN &
 JAMES R. BROWN
 D.B. 12136, PG. 1362
 B.O.M. 1997, PG. 2160
 PIN: 0772854747
 ZONING: R-40W

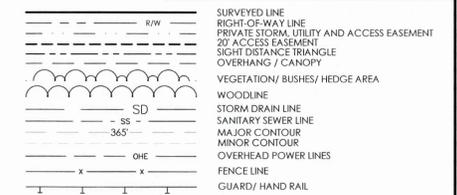
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- LEGEND**
- GPS CONTROL POINT
 - MONUMENT FOUND
 - EXISTING PK NAIL
 - FINISHED FLOOR ELEVATION (FFE)
 - COMPUTED POINT (CP)
 - EXISTING IRON PIPE
 - IRON REBAR SET
 - IRON REBAR
 - PK NAIL
 - IRRIGATION CONTROL VALVE
 - WATER VALVE
 - HYDRANT
 - FDC
 - WATER METER
 - IRRIGATION CONTROL VALVE
 - WELL / MONITORING STATION
 - WATER MANHOLE
 - SANITARY MANHOLE (SMH)
 - STORM MANHOLE (STMH)
 - STORM JUNCTION BOX (JB)
 - CLEANOUT
 - GREASE TRAP
 - GAS VALVE
 - GAS TEST STATION
 - GAS METER
 - TRANSFORMER
 - ELECTRICAL MANHOLE
 - ELECTRIC HAND HOLE (EHH)
 - UNKNOWN UTILITY BOX
 - BOLLARD/GATEPOST
 - DROP INLET (DI)
 - CATCH BASIN (CB)
 - ROUND DROP INLET (DRI)
 - TELEPHONE PEDESTAL
 - LIGHT POLE / TRAFFIC LIGHT
 - ELECTRICAL PEDESTAL
 - UTILITY POLE
 - SIGN
 - GAS PUMP
 - GROUND LIGHT
 - FIBER OPTIC HAND HOLE (FOHH)
 - TRAFFIC SIGNAL BOX
 - CABLE TV HAND HOLE (CTVHH)
 - SPOT SHOT
 - BORE HOLE
 - BUSH
 - EXISTING TREE/TYPE/SIZE
 - CBBC
 - CMP
 - RCP
 - INV
 - HW
 - HARD WOOD
 - RIP RAP AREA
 - GRAVEL AREA

SURVEYORS CERTIFICATE:
 I, HENRY P. FITTS, CERTIFY THAT THIS MAP WAS PREPARED UNDER MY SUPERVISION FROM AN ACTUAL SURVEY MADE UNDER MY SUPERVISION FROM DEED AND MAP SOURCES REFERENCED HEREON; THAT THE BOUNDARIES NOT SURVEYED ARE CLEARLY INDICATED AND REFERENCED SOURCES NOTED; THAT THE RATIO OF PRECISION IS 1:10,000;
 THAT THIS MAP MEETS THE REQUIREMENTS OF THE STANDARDS OF PRACTICE FOR LAND SURVEYING IN NORTH CAROLINA (21 NCAC 56-1600).
 THIS 17TH DAY OF APRIL, 2024.
 Henry P. Fitts
 HENRY P. FITTS, S



MATCHLINE SHEET 2

PROJECT MANAGER:	DATE:
H. FITTS	10/05/2023
CHECKED BY:	SCALE:
H. FITTS	1" = 40'
DRAWN BY:	JOB NUMBER:
S. JONES	SE21.174.01

TOPOGRAPHIC SURVEY
 FOR
 THE WAKE COUNTY BOARD OF EDUCATION
 (SWIFT CREEK ELEMENTARY)
 5601 & 5701 TRYON ROAD
 SWIFT CREEK TOWNSHIP WAKE COUNTY, NORTH CAROLINA

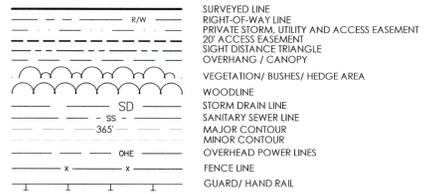


No.	REVISIONS	DATE	BY	SHEET
1	ADDED WETLANDS & ADDITIONAL FEATURES	10/5/23	HF	1 OF 2
2	REVISED WETLANDS AND STREAM POINTS	10/12/23	HF	
3	ADDED BANKS ON STREAM 2	10/30/23	HF	
4	UPDATED CONTOURS	11/07/23	HF	
5	EDITED STORM PIPING	11/21/23	HF	
6	REVISE CONTOURS	24/16/24	HF	

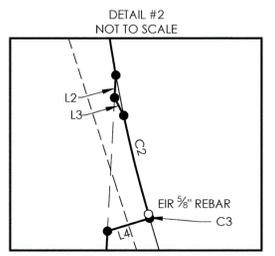
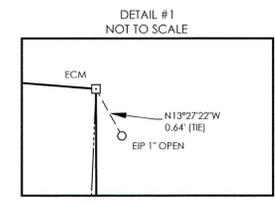
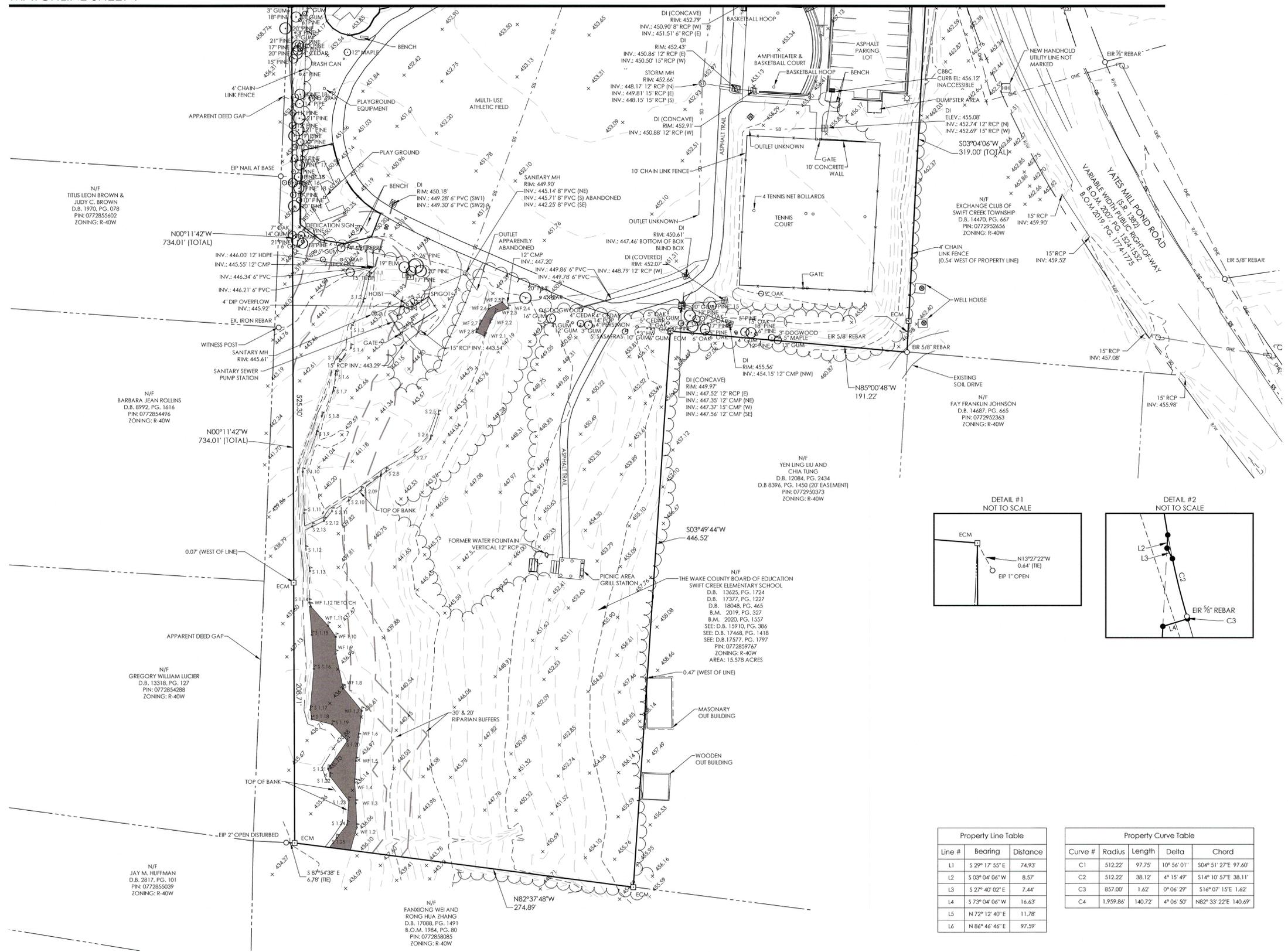
MATCHLINE SHEET 1

NOTES:

- HORIZONTAL CONTROL BASED UPON NCGS MONUMENT 'SWIFT CREEK RESET'
- COORDINATES SHOWN ARE NC GRID COORDINATES.
- ALL BEARINGS ARE NC GRID BEARINGS UNLESS OTHERWISE NOTED.
- ALL DISTANCES ARE HORIZONTAL GROUND DISTANCES UNLESS OTHERWISE NOTED.
- AREAS ARE COMPUTED BY COORDINATE METHOD.
- THIS MAP IS SUBJECT TO ANY FACTS THAT MAY BE DISCLOSED BY A FULL AND ACCURATE TITLE SEARCH.
- SUBJECT AREA IS LOCATED WITHIN SPECIAL FLOOD HAZARD ZONE "X" AS SCALED FROM FIRM MAP #37200772001 PANEL 0772, EFFECTIVE DATE: MAY 2, 2006.
- PARCELS ARE ZONED AS NOTED.
- EXISTING EASEMENTS TAKEN FROM B.O.M. 2007, PG. 1524-1532.
- PROPERTY IS LOCATED IN THE NEW SUBURBAN AREA OF THE SWIFT CREEK LAND MANAGEMENT PLAN.

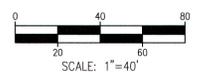


- LEGEND**
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 - FIBER OPTIC HAND HOLE (FOHH)
 - TRAFFIC SIGNAL BOX
 - CABLE TV HAND HOLE (CTVHH)
 - SPOT SHOT
 - BORE HOLE
 - BUSH
 - EXISTING TREE/TYPE/ SIZE
 - CBBC CATCH BASIN AT BACK OF CURB
 - CMP EXISTING CORRUGATED METAL PIPE
 - RCP EXISTING REINFORCED CONCRETE PIPE
 - INV. INVERT
 - HW HARD WOOD
 - RIP-RAP AREA
 - GRAVEL AREA



Line #	Bearing	Distance
L1	S29°17'55\"/>	

Curve #	Radius	Length	Delta	Chord
C1	512.22	97.75	10°56'01\"/>	



USER NAME: R:\back...
 PLOT DATE: Wednesday, April 17, 2024 1:08:02 PM
 LAYOUT TAB: Sheet 2 Swift Creek(2426).dwg
 DOCUMENT NAME: X:\2024\1521\17401\WCPSS_Swift_Creek_ES\SVA\DWG\Updates_Site_2024-04-04\WCPSS_Swift_Creek_ES_TPO-AS-BUILT_04-04-24.dwg

PROJECT MANAGER:	DATE:
H. FITTS	10/05/2023
CHECKED BY:	SCALE:
H. FITTS	1" = 40'
DRAWN BY:	JOB NUMBER:
S. JONES	SE21.174.01

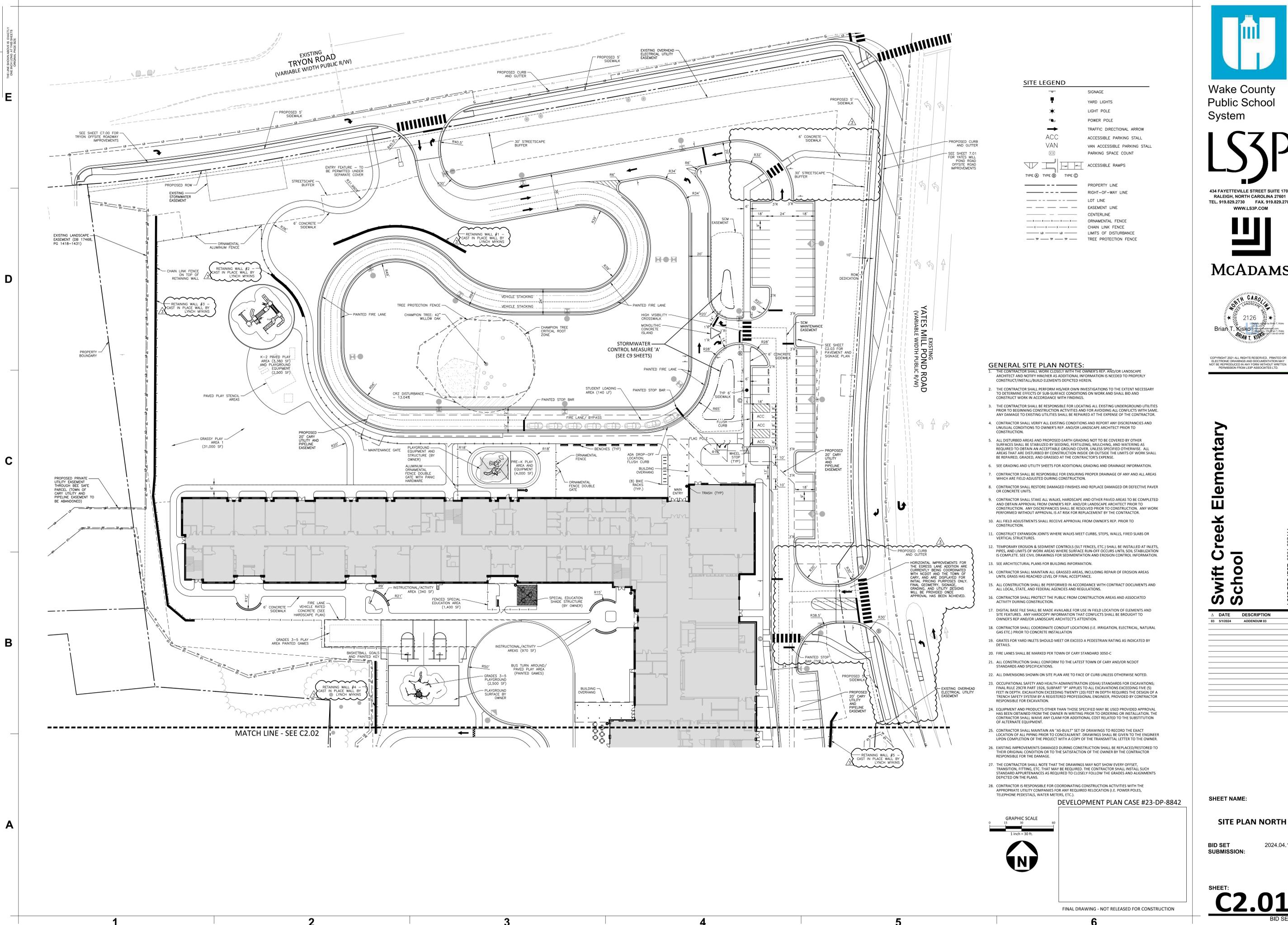
TOPOGRAPHIC SURVEY
 FOR
THE WAKE COUNTY BOARD OF EDUCATION
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 5601 & 5701 TRYON ROAD
 SWIFT CREEK TOWNSHIP WAKE COUNTY, NORTH CAROLINA



1 GLENWOOD AVENUE, SUITE 600
 RALEIGH, NC 27603
 PHONE: 919.789.9977
 FAX: 919.789.9591

No.	REVISIONS	DATE	BY
1	ADDED WETLANDS & ADDITIONAL FEATURES	10/5/23	HF
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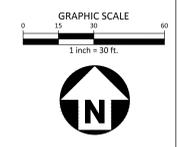
SHEET
2
 OF
2



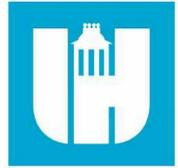
SITE LEGEND

[Symbol]	SIGNAGE
[Symbol]	YARD LIGHTS
[Symbol]	LIGHT POLE
[Symbol]	POWER POLE
[Symbol]	TRAFFIC DIRECTIONAL ARROW
[Symbol]	ACCESSIBLE PARKING STALL
[Symbol]	VAN ACCESSIBLE PARKING STALL
[Symbol]	PARKING SPACE COUNT
[Symbol]	ACCESSIBLE RAMPS
[Symbol]	PROPERTY LINE
[Symbol]	RIGHT-OF-WAY LINE
[Symbol]	LOT LINE
[Symbol]	EASEMENT LINE
[Symbol]	CENTERLINE
[Symbol]	ORNAMENTAL FENCE
[Symbol]	CHAIN LINK FENCE
[Symbol]	LIMITS OF DISTURBANCE
[Symbol]	TREE PROTECTION FENCE

- GENERAL SITE PLAN NOTES:**
- THE CONTRACTOR SHALL WORK CLOSELY WITH THE OWNER'S REP./AND/OR LANDSCAPE ARCHITECT AND NOTIFY HIM/HER AS ADDITIONAL INFORMATION IS NEEDED TO PROPERLY CONSTRUCT/INSTALL/BUILD ELEMENTS DEPICTED HEREIN.
 - THE CONTRACTOR SHALL PERFORM HIS/HER OWN INVESTIGATIONS TO THE EXTENT NECESSARY TO DETERMINE EFFECTS OF SUB-SURFACE CONDITIONS ON WORK AND SHALL BID AND CONSTRUCT WORK IN ACCORDANCE WITH FINDINGS.
 - THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL EXISTING UNDERGROUND UTILITIES PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES AND FOR AVOIDING ALL CONFLICTS WITH SAME. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.
 - CONTRACTOR SHALL VERIFY ALL EXISTING CONDITIONS AND REPORT ANY DISCREPANCIES AND UNUSUAL CONDITIONS TO OWNER'S REP. AND/OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION.
 - ALL DISTURBED AREAS AND PROPOSED EARTH GRADING NOT TO BE COVERED BY OTHER SURFACES SHALL BE STABILIZED BY SEEDING, FERTILIZING, MULCHING, AND WATERING AS REQUIRED TO OBTAIN AN ACCEPTABLE GROUND COVER, UNLESS SPECIFIED OTHERWISE. ALL AREAS THAT ARE DISTURBED BY CONSTRUCTION INSIDE OR OUTSIDE THE LIMITS OF WORK SHALL BE REPAIRED, GRADED, AND GRASSED AT THE CONTRACTOR'S EXPENSE.
 - SEE GRADING AND UTILITY SHEETS FOR ADDITIONAL GRADING AND DRAINAGE INFORMATION.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING PROPER DRAINAGE OF ANY AND ALL AREAS WHICH ARE FIELD ADJUSTED DURING CONSTRUCTION.
 - CONTRACTOR SHALL RESTORE DAMAGED FINISHES AND REPLACE DAMAGED OR DEFECTIVE PAVEMENT OR CONCRETE UNITS.
 - CONTRACTOR SHALL STAKE ALL WALKS, HARDSCAPE AND OTHER PAVED AREAS TO BE COMPLETED AND OBTAIN APPROVAL FROM OWNER'S REP. AND/OR LANDSCAPE ARCHITECT PRIOR TO CONSTRUCTION. ANY DISCREPANCIES SHALL BE RESOLVED PRIOR TO CONSTRUCTION. ANY WORK PERFORMED WITHOUT APPROVAL IS AT RISK FOR REPLACEMENT BY THE CONTRACTOR.
 - ALL FIELD ADJUSTMENTS SHALL RECEIVE APPROVAL FROM OWNER'S REP. PRIOR TO CONSTRUCTION.
 - CONSTRUCT EXPANSION JOINTS WHERE WALKS MEET CURBS, STEPS, WALLS, FIXED SLABS OR VERTICAL STRUCTURES.
 - TEMPORARY EROSION & SEDIMENT CONTROLS (SILT FENCES, ETC.) SHALL BE INSTALLED AT INLETS, PILES, AND LIMITS OF WORK AREAS WHERE SUB-SURFACE RUN-OFF OCCURS UNTIL SOIL STABILIZATION IS COMPLETE. SEE CIVIL DRAWINGS FOR SEDIMENTATION AND EROSION CONTROL INFORMATION.
 - SEE ARCHITECTURAL PLANS FOR BUILDING INFORMATION.
 - CONTRACTOR SHALL MAINTAIN ALL GRASSED AREAS, INCLUDING REPAIR OF EROSION AREAS UNTIL GRASS HAS REACHED LEVEL OF FINAL ACCEPTANCE.
 - ALL CONSTRUCTION SHALL BE PERFORMED IN ACCORDANCE WITH CONTRACT DOCUMENTS AND ALL LOCAL, STATE, AND FEDERAL AGENCIES AND REGULATIONS.
 - CONTRACTOR SHALL PROTECT THE PUBLIC FROM CONSTRUCTION AREAS AND ASSOCIATED ACTIVITY DURING CONSTRUCTION.
 - DIGITAL BASE FILE SHALL BE MADE AVAILABLE FOR USE IN FIELD LOCATION OF ELEMENTS AND SITE FEATURES. ANY HANDOFF INFORMATION THAT CONFLICTS SHALL BE BROUGHT TO OWNER'S REP AND/OR LANDSCAPE ARCHITECT'S ATTENTION.
 - CONTRACTOR SHALL COORDINATE CONDUIT LOCATIONS (I.E. IRRIGATION, ELECTRICAL, NATURAL GAS ETC.) PRIOR TO CONCRETE INSTALLATION.
 - GRATES FOR YARD INLETS SHOULD MEET OR EXCEED A PEDESTRIAN RATING AS INDICATED BY DETAILS.
 - FIRE LANES SHALL BE MARKED PER TOWN OF CARY STANDARD 3050-C.
 - ALL CONSTRUCTION SHALL CONFORM TO THE LATEST TOWN OF CARY AND NCDOT STANDARDS AND SPECIFICATIONS.
 - ALL DIMENSIONS SHOWN ON SITE PLAN ARE TO FACE OF CURB UNLESS OTHERWISE NOTED.
 - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART FF APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
 - EQUIPMENT AND PRODUCTS OTHER THAN THOSE SPECIFIED MAY BE USED PROVIDED APPROVAL HAS BEEN OBTAINED FROM THE OWNER IN WRITING PRIOR TO ORDERING OR INSTALLATION. THE CONTRACTOR SHALL WAIVE ANY CLAIM FOR ADDITIONAL COST RELATED TO THE SUBSTITUTION OF ALTERNATE EQUIPMENT.
 - CONTRACTOR SHALL MAINTAIN AN "AS-BUILT" SET OF DRAWINGS TO RECORD THE EXACT LOCATION OF ALL PIPING PRIOR TO CONCEALMENT. DRAWINGS SHALL BE GIVEN TO THE ENGINEER UPON COMPLETION OF THE PROJECT WITH A COPY OF THE TRANSMITTAL LETTER TO THE OWNER.
 - EXISTING IMPROVEMENTS DAMAGED DURING CONSTRUCTION SHALL BE REPLACED/RESTORED TO THEIR ORIGINAL CONDITION OR TO THE SATISFACTION OF THE OWNER BY THE CONTRACTOR RESPONSIBLE FOR THE DAMAGE.
 - THE CONTRACTOR SHALL NOTE THAT THE DRAWINGS MAY NOT SHOW EVERY OFFSET, TRANSITION, FITTING, ETC. THAT MAY BE REQUIRED. THE CONTRACTOR SHALL INSTALL SUCH STANDARD APPURTENANCES AS REQUIRED TO CLOSELY FOLLOW THE GRADES AND ALIGNMENTS DEPICTED ON THE PLANS.
 - CONTRACTOR IS RESPONSIBLE FOR COORDINATING CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES FOR ANY REQUIRED RELOCATION (I.E. POWER POLES, TELEPHONE PEDESTALS, WATER METERS, ETC.).



DEVELOPMENT PLAN CASE #23-DP-8842



Wake County
Public School
System



434 FAYETTEVILLE STREET SUITE 1700
RALEIGH, NORTH CAROLINA 27601
TEL. 919.829.2730 FAX. 919.829.2700
WWW.LS3P.COM



McAdams



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Swift Creek Elementary
School

LS3P PROJECT: 9201-207411

DATE	DESCRIPTION
03/01/2024	ADDENDUM 03

SHEET NAME:

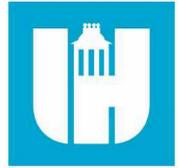
SITE PLAN NORTH

BID SET SUBMISSION: 2024.04.10

SHEET: **C2.01**
BID SET

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

M:\Projects\LS3P\20231118\046_Swift_Creek_Elementary\08_Production\Engineering\Construction\Drawings\Current\Drawings\20231118\046_S1_Sheet_4/20/2024_4:39:23 PM_T. Nathan Biles
 THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT FROM THE CENTERLINE OF THE ADJACENT PAVED ROAD



Wake County Public School System



434 FAYETTEVILLE STREET SUITE 1700 RALEIGH, NORTH CAROLINA 27601 TEL: 919.829.2730 FAX: 919.829.2700 WWW.LS3P.COM



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Swift Creek Elementary School

LS3P PROJECT: 6201-207411

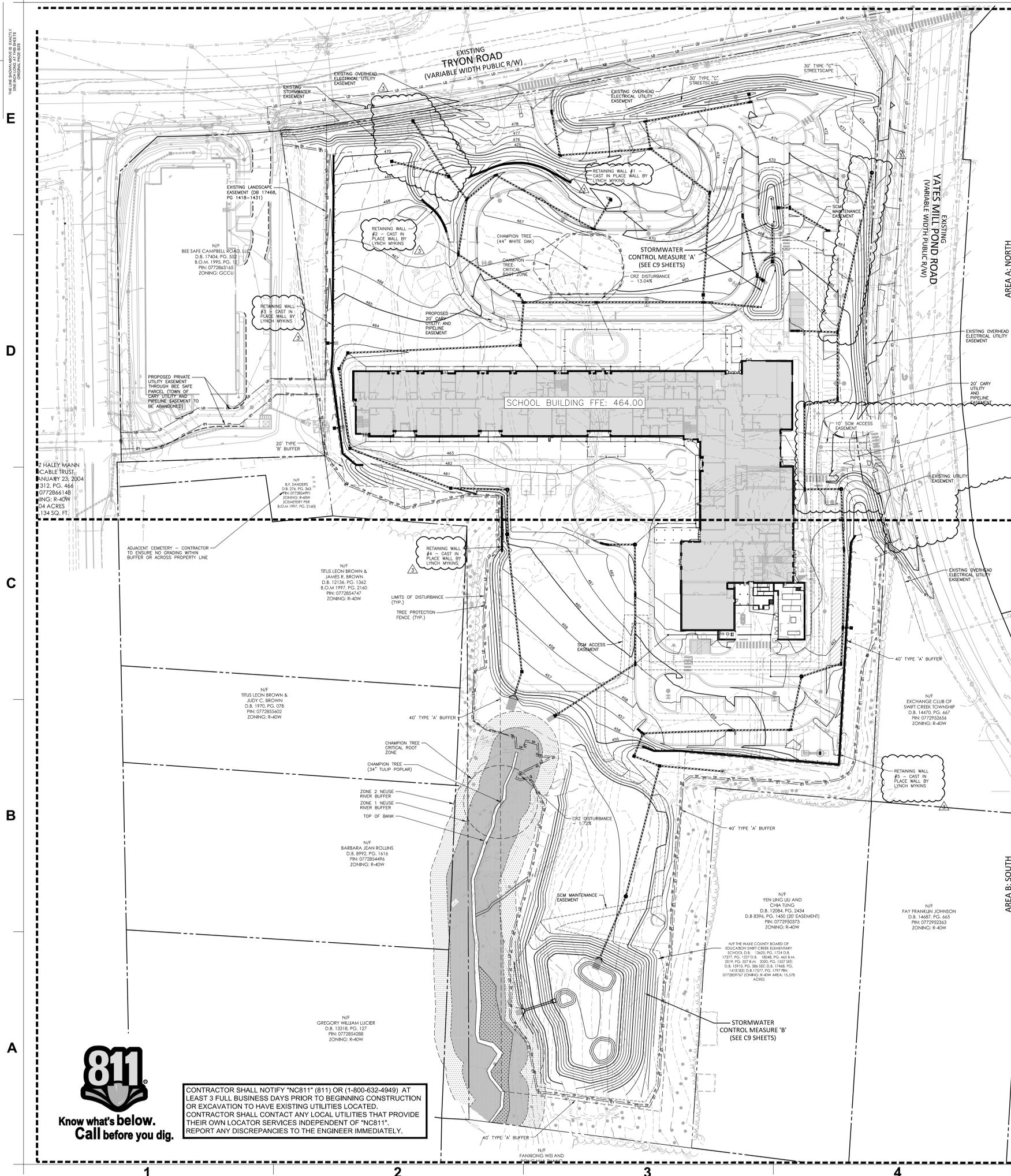
DATE	DESCRIPTION
03/31/2024	ADDENDUM 03

SHEET NAME: OVERALL GRADING PLAN

BID SET SUBMISSION: 2024.04.10

SHEET: C3.00

BID SET



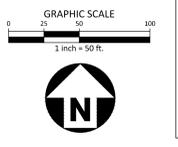
GRADING LEGEND

- FLARED END SECTION
- ENDWALL SECTION
- CATCH BASIN
- DROP INLET
- STORM SERVICE INLET
- STORM SERVICE ROOF-DRAIN
- JUNCTION BOX
- DRAINAGE FLOW ARROW
- LINE BREAK SYMBOL
- TOP & BOTTOM CURB ELEVATIONS (MEG = MATCH EXISTING GRADE)
- TOP OF WALL ELEVATION
- BOTTOM OF WALL ELEVATION (NOTE: BOTTOM OF WALL IS GROUND ELEVATION NOT WALL FOUNDATION)
- SPOT ELEVATION
- STORM DRAINAGE
- STORM SERVICE LINE, 8" HDPE NON-PERFORATED TUBING OR EQUAL, 0.3% MIN. SLOPE, 3' MIN. COVER, PVC SCHEDULE 40 IN TRAFFIC AREAS
- TREE PROTECTION FENCE
- LIMITS OF DISTURBANCE
- WOODED AREA
- MAJOR CONTOUR
- MINOR CONTOUR
- EXISTING MAJOR CONTOUR
- EXISTING MINOR CONTOUR
- EASEMENT LINE
- ACCESSIBLE PARKING AREA (2% MAX. SLOPE IN ALL DIRECTIONS)

- GRADING NOTES**
- ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION. FOR NECESSARY PLAN OR GRADE CHANGES, NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
 - OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS: FINAL RULE 29CFR PART 1926, SUBPART "F" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
 - CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
 - A PRE-CONSTRUCTION CONFERENCE WILL BE HELD PRIOR TO ANY LAND DISTURBING ACTIVITY. AS DEEMED NECESSARY, THE OWNER, ENGINEER, CONTRACTOR, AND REPRESENTATIVES FROM MDCG WILL BE INVITED TO ATTEND THE MEETING. FOR INDEX REPRESENTATIVES, CONTACT DIVISION OF LAND QUALITY AT (910) 796-7215 PRIOR TO START OF CONSTRUCTION.
 - CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TIMING OF REMOVAL SHALL BE COORDINATED WITH THE EROSION CONTROL INSPECTOR.
 - EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
 - SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES LESS THAN 4:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

- STORM DRAINAGE NOTES:**
- ALL STORM DRAINAGE PIPES SHOWN SHALL BE REINFORCED CONCRETE (RCR) (MINIMUM CLASS 1) UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH THE GEOTECH TO VERIFY TYPE OF BEDDING REQUIRED BASED ON SOIL CONDITIONS. CONTRACTOR TO SELECT REQUIRED CLASS OF PIPE BASED ON DEPTH OF PIPE AND BEDDING PROVIDED PER THE AMERICAN CONCRETE PIPE ASSOCIATION GUIDELINES.
 - ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF CARY STANDARDS.
 - ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
 - ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
 - ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAID MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMPING BLOWS OR PROOF ROLLING.
 - MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
 - BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100 PERCENT STANDARD PROCTOR.
 - UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
 - IF THE USE OF WAFFLE BOXES ARE ALLOWED AT THIS SITE, ALL PENETRATIONS FOR STORM DRAINAGE PIPES MUST BE MADE WITHIN THE KNOCK-OUT PORTION OF THE BOX AND NOT AT THE CORNERS WHERE THE STRUCTURAL INTEGRITY MAY BE COMPROMISED.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL PIPE AND STRUCTURES FOR CRACKS OR BREAKS, PRIOR TO INSTALLATION. ANY DAMAGED ITEMS SHALL NOT BE INSTALLED.
 - SEE SHEET C3.08 FOR STORM DRAINAGE STRUCTURE ELEVATIONS AND PIPE INVERTS.
 - BUILDING FOUNDATION DRAINS SHALL BE CONNECTED TO THE ROOF DRAIN LEADER SYSTEM.

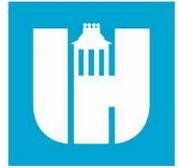
- TOWN OF CARY NOTES**
- TO MINIMIZE DAMAGE TO EXISTING CHAMPION TREES LOCATED NEAR THE INTERIOR EDGE OF TREE PROTECTION AREAS, THE CONTRACTOR SHALL CUT TRENCHES A MINIMUM OF TWO FEET DEEP, ALONG THE LIMITS OF DISTURBANCE IN ORDER TO CUT, RATHER THAN TEAR, EXISTING ROOTS.
 - INSTALLATION OF HDPE PIPE SHALL ADHERE TO THE SPECIFICATIONS OF ASTM D2321 AND BE CERTIFIED BY AN ENGINEER ACCORDING TO TOWN STANDARDS.
 - ALL STORM DRAIN FRAMES GRATES & HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH TOWN OF CARY STANDARDS.
 - IF THERE WILL BE A TRASH COMPACTOR ON THE SITE A CONNECTION TO SANITARY SEWER AND A COVERED DUMPSTER SITE WILL BE REQUIRED.
 - PVC PIPE SHALL MEET THE SPECIFICATIONS OF ASTM F949-93a AND SHALL HAVE A SMOOTH INTERIOR.
 - THE EROSION CONTROL REVIEW AND INSPECTION WILL BE ADDRESSED BY NORTH CAROLINA DIVISION OF ENERGY, MINERAL, AND LAND RESOURCES (NC DEMR) NOT THE TOWN OF CARY.
 - A TURBIDITY CURTAIN MAY BE REQUIRED TO BE INSTALLED BY THE DEVELOPER IF WARRANTED BY DOWNSTREAM IMPACTS.



CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.



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Wake County Public School System



434 FAYETTEVILLE STREET SUITE 1700 RALEIGH, NORTH CAROLINA 27601 TEL: 919.829.2730 FAX: 919.829.2700 WWW.LS3P.COM



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Swift Creek Elementary School

LS3P PROJECT: 2201-207411

Table with 2 columns: DATE, DESCRIPTION. Row 1: 03/05/2024, ADDENDUM 03

Table with 2 columns: DATE, DESCRIPTION. Row 1: 03/05/2024, ADDENDUM 03

SHEET NAME: GRADING PLAN SOUTH

BID SET SUBMISSION: 2024.04.10

SHEET: C3.02

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION

BID SET

811 Know what's below. Call before you dig.

1 2 3 4 5 6

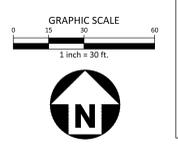
Grading Legend and Grading Notes. Legend includes symbols for flared end section, end wall section, catch basin, drop inlet, storm service inlet, storm service roof-drain, junction box, drainage flow arrow, line break symbol, top & bottom curb elevations, spot elevation, storm drainage, storm service line, tree protection fence, limits of disturbance, wooded area, major contour, minor contour, existing major contour, existing minor contour, easement line, accessible parking area.

- Grading Notes: 1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED... 2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS... 3. CONTRACTOR SHALL NOTIFY 'NC811' (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION... 4. A PRE-CONSTRUCTION CONFERENCE WILL BE HELD PRIOR TO ANY LAND DISTURBING ACTIVITY... 5. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR... 6. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS... 7. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES LESS THAN 4:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

- Storm Drainage Notes: 1. ALL STORM DRAINAGE PIPES SHOWN SHALL BE REINFORCED CONCRETE (RCP) (MINIMUM CLASS IV) UNLESS NOTED OTHERWISE... 2. ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF CARY STANDARDS... 3. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH... 4. ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-198 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED... 5. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL... 6. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL... 7. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID... 8. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED... 9. IF THE USE OF WAFFLE BOXES ARE ALLOWED AT THIS SITE, ALL PENETRATIONS FOR STORM DRAINAGE PIPES MUST BE MADE WITHIN THE KNOCK-OUT PORTION OF THE BOX AND NOT AT THE CORNERS WHERE THE STRUCTURAL INTEGRITY MAY BE COMPROMISED... 10. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL PIPE AND STRUCTURES FOR CRACKS OR BREAKS, PRIOR TO INSTALLATION... 11. SEE SHEET C3.03 FOR STORM DRAINAGE STRUCTURE ELEVATIONS AND PIPE INVERTS... 12. BUILDING FOUNDATION DRAINS SHALL BE CONNECTED TO THE ROOF DRAIN LEADER SYSTEM.

RIPRAP VELOCITY DISSIPATOR PAD SUMMARY TABLE. Columns: STRUCTURE, MATERIAL, DIMETER (IN), THICKNESS (IN), LENGTH (FT), WIDTH (FT). Rows include HW-100, FES-200, FES-300, HW-303A, HW-304A, FES-400, FES-500.

PERMANENT SWALE SUMMARY TABLE. Columns: CHANNEL #, BOTTOM WIDTH (FT), SIDE SLOPE, DEPTH (FT), LONGITUDINAL SLOPE (FT/FT), LINER. Rows include PERM. SWALE #1, #2, #3, #4.



DEVELOPMENT PLAN CASE #23-DP-8842

FINAL DRAWING - NOT RELEASED FOR CONSTRUCTION



N/F TITUS LORR BROWN & JAMES R. BROWN D.B. 17136, PG. 1362 8.O.M. 1997, PG. 2160 PIN: 0772854747 ZONING: R-40W

N/F BARBARA JEAN ROLLINS D.B. 8992, PG. 1616 PIN: 0772854494 ZONING: R-40W

N/F GREGORY WILLIAM LUCIER D.B. 13318, PG. 127 PIN: 0772854288 ZONING: R-40W

CONTRACTOR SHALL NOTIFY 'NC811' (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF 'NC811'. REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

N/F FANXING WU AND RONG HUA ZHANG D.B. 17086, PG. 1491 8.O.M. 1984, PG. 80 PIN: 0772888085

N/F THE WAKE COUNTY BOARD OF EDUCATION SWIFT CREEK ELEMENTARY SCHOOL D.B. 13625, PG. 1724 D.B. 17377, PG. 1227 D.B. 18048, PG. 465 B.M. 2019, PG. 327 B.M. 2020, PG. 1557 SEE: D.B. 15910, PG. 386 SEE: D.B. 17448, PG. 1418 SEE: D.B. 17577, PG. 1797 PIN: 0772859767 ZONING: R-40W AREA: 15.578 ACRES

N/F FAY FRANKLIN JOHNSON D.B. 14687, PG. 665 PIN: 0772929263 ZONING: R-40W

N/F EXCHANGE CLUB OF SWIFT CREEK TOWNSHIP D.B. 14470, PG. 667 PIN: 0772929266 ZONING: R-40W

E

D

C

B

A

1

2

3

4

5

6

M:\Projects\LS3P\2024\Swift Creek Elementary\08 Production\Engineering\Construction\Drawings\Current\Drawings\20241118.dwg - C:\img_420240214_841154.dwg - J. Nathan Miller



Know what's below. Call before you dig.

CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.

CB-104A
T/C=458.00
INV IN=450.50 (CB-104B)
INV IN=446.43 (CB-105)
INV OUT=446.30

CB-104B
T/C=457.85
INV OUT=450.75

CB-105
T/C=459.30
INV IN=447.62 (CB-106)
INV OUT=447.50

CB-106
T/C=460.75
INV IN=448.48 (JB-107)
INV OUT=448.35

CB-108
T/C=462.10
INV IN=449.80 (CB-108A)
INV OUT=449.70

CB-108A
T/C=462.50
INV IN=450.33 (CB-109)
INV IN=453.00 (YI-108B)
INV OUT=450.25

CB-109
T/C=462.40
INV IN=451.45 (JB-110)
INV OUT=451.30

CB-111
T/C=463.90
INV IN=453.00 (CB-112)
INV OUT=452.80

CB-112
T/C=463.30
INV IN=457.35 (CB-113)
INV OUT=457.25

CB-113
T/C=463.45
INV IN=457.70 (CB-114)
INV OUT=457.60

CB-114
T/C=464.25
INV IN=458.90 (CB-115A)
INV IN=458.80 (JB-701)
INV OUT=458.15

CB-115A
T/C=463.40
INV IN=459.30 (CB-115B)
INV OUT=459.20

CB-115B
T/C=463.40
INV OUT=459.40

CB-201
T/C=459.40
INV IN=456.00 (CB-202)
INV OUT=455.90

CB-202
T/C=458.71
INV IN=456.65 (JB-203)
INV OUT=456.55

CB-204
T/C=462.35
INV IN=457.85 (CB-204A)
INV OUT=457.75

CB-204A
T/C=462.40
INV OUT=457.90

CB-307
T/C=463.05
INV IN=457.40 (CB-313)
INV IN=458.30 (YI-307A)
INV OUT=457.30

CB-308
T/C=467.05
INV IN=462.00 (CB-309)
INV OUT=461.90

CB-309
T/C=467.10
INV IN=463.65 (CB-310)
INV IN=463.50 (YI-324)
INV OUT=462.90

CB-310
T/C=467.30
INV IN=464.50 (CB-311)
INV OUT=464.40

CB-311
T/C=469.45
INV IN=465.40 (YI-312)
INV OUT=465.30

CB-313
T/C=462.65
INV IN=457.90 (CB-314)
INV OUT=457.90

CB-314
T/C=463.30
INV IN=459.15 (YI-314A)
INV IN=458.75 (YI-322)
INV OUT=458.65

CB-315
T/C=472.30
INV IN=463.40 (CB-316)
INV OUT=463.30

CB-316
T/C=473.75
INV IN=464.15 (CB-319)
INV IN=469.00 (CB-317)
INV OUT=463.90

CB-317
T/C=477.00
INV IN=471.90 (CB-318)
INV OUT=471.80

CB-318
T/C=478.00
INV OUT=473.65

CB-319
T/C=473.10
INV IN=464.40 (CB-320)
INV OUT=464.35

CB-320
T/C=470.60
INV IN=465.25 (YI-321)
INV OUT=465.15

CB-401
T/C=464.40
INV IN=462.15 (CB-402)
INV OUT=462.05

CB-402
T/C=466.75
INV OUT=463.00

CB-501
T/C=467.75
INV IN=464.20 (CB-502)
INV OUT=464.10

CB-502
T/C=467.45
INV OUT=464.50

JB-101
RIM=449.10
INV IN=440.75 (YI-102)
INV OUT=440.65

JB-107
RIM=461.55
INV IN=449.39 (CB-108)
INV OUT=449.15

JB-110
RIM=464.70
INV IN=452.35 (CB-111)
INV OUT=452.20

JB-203
RIM=459.26
INV IN=457.30 (CB-204)
INV OUT=457.05

JB-300B
RIM=460.35
INV IN=453.00 (JB-301)
INV OUT=452.90

JB-301
RIM=461.90
INV IN=453.45 (YI-302)
INV OUT=453.35

JB-701
RIM=473.00
INV OUT=465.00

YI-102
T/G=451.30
INV IN=442.65 (YI-103)
INV IN=446.40 (YI-147)
INV OUT=442.40

YI-103
T/G=451.25
INV IN=444.72 (CB-104A)
INV OUT=444.40

YI-108B
T/G=457.75
INV OUT=454.00

YI-147
T/G=449.95
INV IN=447.35 (EXYI-148)
INV IN=447.56 (EXYI-149)
INV OUT=447.10

YI-300A
T/G=456.25
INV IN=450.95 (JB-300B)
INV OUT=450.85

YI-302
T/G=460.00
INV IN=453.95 (YI-303)
INV OUT=453.85

YI-303
T/G=461.50
INV IN=454.80 (YI-304)
INV OUT=454.70

YI-303B
T/G=467.70
INV OUT=463.15

YI-304
T/G=462.60
INV IN=455.45 (YI-305)
INV OUT=455.35

YI-304B
T/G=469.20
INV OUT=463.75

YI-305
T/G=463.75
INV IN=455.70 (YI-306)
INV OUT=455.60

YI-306
T/G=463.70
INV IN=457.00 (CB-307)
INV OUT=456.90

YI-307A
T/G=462.75
INV IN=458.00 (CB-308)
INV OUT=458.40

YI-312
T/G=468.75
INV OUT=465.65

YI-314A
T/G=463.00
INV IN=459.70 (CB-315)
INV OUT=459.20

YI-321
T/G=468.65
INV OUT=465.35

YI-322
RIM=463.00
INV OUT=459.16

YI-324
T/G=470.46
INV IN=465.35 (YI-326)
INV IN=465.35 (YI-324A)
INV OUT=465.25

YI-324A
T/G=470.91
INV OUT=468.40

YI-326
T/G=475.65
INV IN=469.92 (CB-700)
INV OUT=469.04

FES-200
INV=450.85

FES-300
INV=450.65

FES-400
INV=462.00

HW-100
INV=439.00

HW-303A
INV=463.05

HW-304A
INV=463.65

GRADING NOTES

- 1. ALL DIMENSIONS AND GRADES SHOWN ON THE PLANS SHALL BE FIELD VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR SHALL NOTIFY THE ENGINEER IF ANY DISCREPANCIES EXIST PRIOR TO PROCEEDING WITH CONSTRUCTION, FOR NECESSARY PLAN OR GRADE CHANGES. NO EXTRA COMPENSATION SHALL BE PAID TO THE CONTRACTOR FOR ANY WORK DONE DUE TO DIMENSIONS OR GRADES SHOWN INCORRECTLY ON THESE PLANS IF SUCH NOTIFICATION HAS NOT BEEN GIVEN.
2. OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) STANDARDS FOR EXCAVATIONS; FINAL RULE 29CFR PART 1926, SUBPART "P" APPLIES TO ALL EXCAVATIONS EXCEEDING FIVE (5) FEET IN DEPTH. EXCAVATION EXCEEDING TWENTY (20) FEET IN DEPTH REQUIRES THE DESIGN OF A TRENCH SAFETY SYSTEM BY A REGISTERED PROFESSIONAL ENGINEER, PROVIDED BY CONTRACTOR RESPONSIBLE FOR EXCAVATION.
3. CONTRACTOR SHALL NOTIFY "NC811" (811) OR (1-800-632-4949) AT LEAST 3 FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION OR EXCAVATION TO HAVE EXISTING UTILITIES LOCATED. CONTRACTOR SHALL CONTACT ANY LOCAL UTILITIES THAT PROVIDE THEIR OWN LOCATOR SERVICES INDEPENDENT OF "NC811". REPORT ANY DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
4. A PRE-CONSTRUCTION CONFERENCE WILL BE HELD PRIOR TO ANY LAND DISTURBING ACTIVITY. AS DEEMED NECESSARY, THE OWNER, ENGINEER, CONTRACTOR, AND REPRESENTATIVES FROM NCDDI WILL BE INVITED TO ATTEND THE MEETING. FOR NCDDI REPRESENTATIVES, CONTACT DIVISION OF LAND QUALITY AT (910) 796-7225 PRIOR TO START OF CONSTRUCTION.
5. CONSTRUCTION, MAINTENANCE AND REMOVAL OF ALL EROSION CONTROL DEVICES ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR. TIMING OF REMOVAL SHALL BE COORDINATED WITH THE EROSION CONTROL INSPECTOR.
6. EXISTING UTILITIES AND STRUCTURES SHOWN, BOTH UNDERGROUND AND ABOVE GROUND, ARE BASED ON A FIELD SURVEY AND THE BEST AVAILABLE RECORD DRAWINGS. THE CONTRACTOR SHALL VERIFY FIELD CONDITIONS PRIOR TO BEGINNING RELATED CONSTRUCTION. ANY DISCREPANCIES SHALL BE REPORTED TO THE ENGINEER IMMEDIATELY.
7. SOIL UNDER BUILDINGS, PAVED AREAS AND WITHIN SLOPES LESS THAN 4:1 (H:V) SHALL BE APPROVED, PLACED AND COMPACTED AS RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

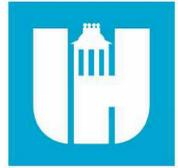
STORM DRAINAGE NOTES:

- 1. ALL STORM DRAINAGE PIPES SHOWN SHALL BE REINFORCED CONCRETE (RCP) (MINIMUM CLASS R/1 UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE WITH THE GEOTECH TO VERIFY TYPE OF BEDDING REQUIRED BASED ON SOIL CONDITIONS. CONTRACTOR TO SELECT REQUIRED CLASS OF PIPE BASED ON DEPTH OF PIPE AND BEDDING PROVIDED PER THE AMERICAN CONCRETE PIPE ASSOCIATION GUIDELINES.
2. ALL STORM DRAINAGE CONSTRUCTION SHALL BE IN ACCORDANCE WITH TOWN OF CARY STANDARDS.
3. ALL CONCRETE SHALL MEET A MINIMUM 3000 PSI COMPRESSIVE STRENGTH.
4. ALL PIPE JOINTS SHALL BE MADE WITH PREFORMED JOINT SEALER, WHICH CONFORMS TO AASHTO SPECIFICATION M-196 FOR TYPE B FLEXIBLE PLASTIC GASKETS UNLESS OTHERWISE NOTED.
5. ALL BACKFILL SHALL BE NON-PLASTIC IN NATURE, FREE FROM ROOTS, VEGETATION MATTER, WASTE CONSTRUCTION MATERIAL OR OTHER OBJECTIONABLE MATERIAL. SAND MATERIAL SHALL BE CAPABLE OF BEING COMPACTED BY MECHANICAL MEANS AND SHALL HAVE NO TENDENCY TO FLOW OR BEHAVE IN A PLASTIC MANNER UNDER THE TAMMING BLOWS OR PROOF ROLLING.
6. MATERIALS DEEMED BY THE OWNER'S REPRESENTATIVE AS UNSUITABLE FOR BACKFILL PURPOSES SHALL BE REMOVED AND REPLACED WITH SUITABLE MATERIAL.
7. BACKFILLING OF TRENCHES SHALL BE ACCOMPLISHED IMMEDIATELY AFTER PIPE IS LAID. THE FILL AROUND THE PIPE SHALL BE THOROUGHLY COMPACTED TO 95% OF THE MAXIMUM DRY DENSITY OBTAINABLE WITH THE STANDARD PROCTOR TEST. THE TOP EIGHT (8) INCHES SHALL BE COMPACTED TO 100 PERCENT STANDARD PROCTOR.
8. UNDER NO CIRCUMSTANCES SHALL WATER BE ALLOWED TO RISE IN UNBACKFILLED TRENCHES AFTER PIPE HAS BEEN PLACED.
9. IF THE USE OF WAFFLE BOXES ARE ALLOWED AT THIS SITE, ALL PENETRATIONS FOR STORM DRAINAGE PIPES MUST BE MADE WITHIN THE KNOCK-OUT PORTION OF THE BOX AND NOT AT THE CORNERS WHERE THE STRUCTURAL INTEGRITY MAY BE COMPROMISED.
10. CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING ALL PIPE AND STRUCTURES FOR CRACKS OR BREAKS, PRIOR TO INSTALLATION. ANY DAMAGED ITEMS SHALL NOT BE INSTALLED.
11. SEE SHEET C3.00 FOR STORM DRAINAGE STRUCTURE ELEVATIONS AND PIPE INVERTS.

TOWN OF CARY NOTES

- 1. TO MINIMIZE DAMAGE TO EXISTING CHAMPION TREES LOCATED NEAR THE INTERIOR EDGE OF TREE PROTECTION AREAS, THE CONTRACTOR SHALL CUT TRENCHES A MINIMUM OF TWO FEET DEEP ALONG THE LIMITS OF DISTURBANCE IN ORDER TO CUT, RATHER THAN TEAR, EXISTING ROOTS.
2. INSTALLATION OF HOPE PIPE SHALL ADHERE TO THE SPECIFICATIONS OF ASTM D2321 AND BE CERTIFIED BY AN ENGINEER ACCORDING TO TOWN STANDARDS.
3. ALL STORM DRAIN FRAMES, GRATES & HOODS SHALL BE STAMPED WITH "DRAINS TO RIVER" IN ACCORDANCE WITH TOWN OF CARY STANDARDS.
4. IF THERE WILL BE A TRASH COMPACTOR ON THE SITE A CONNECTION TO SANITARY SEWER AND A COVERED DUMPER SITE WILL BE REQUIRED.
5. PVC PIPE SHALL MEET THE SPECIFICATIONS OF ASTM F949-93a AND SHALL HAVE A SMOOTH INTERIOR.

DEVELOPMENT PLAN CASE #23-DP-8842



Wake County Public School System



434 FAYETTEVILLE STREET SUITE 1700 RALEIGH, NORTH CAROLINA 27601 TEL. 919.829.2730 FAX. 919.829.2700 WWW.LS3P.COM



McAdams



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Swift Creek Elementary School

Table with 2 columns: DATE, DESCRIPTION. Row 1: 03/05/2024, ADDENDUM 03.

SHEET NAME: STRUCTURE TABLES

BID SET SUBMISSION: 2024.04.10

SHEET: C3.03

GENERAL NOTES:

- THE STRUCTURAL DRAWINGS MUST BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, MECHANICAL, PLUMBING, AND ELECTRICAL DRAWINGS, AND THE SPECIFICATIONS. THE CONTRACTOR MUST VERIFY THE REQUIREMENTS OF OTHER TRADES AS TO SLEEVES, CHASES, HANGERS, INSERTS, ANCHORS, HOLES, AND ADDITIONAL ITEMS TO BE PLACED OR SET IN THE STRUCTURAL WORK.
- THIS STRUCTURE HAS BEEN DESIGNED IN ACCORDANCE WITH THE PROVISIONS OF THE NORTH CAROLINA STATE BUILDING CODE, 2018 EDITION.
- THE WORK OUTLINED IN THE BUILDING CODE IS SUBJECT TO SPECIAL INSPECTIONS AS DESCRIBED IN THE TECHNICAL SPECIFICATIONS.
- THE CONTRACTOR MUST PROVIDE TEMPORARY SHORING AND BRACING REQUIRED TO ERECT AND HOLD THE STRUCTURE IN PROPER ALIGNMENT UNTIL PERMANENT SUPPORTS AND LATERAL BRACING ARE IN PLACE.
- DISCREPANCIES BETWEEN DRAWINGS, BETWEEN THE DRAWINGS AND THE SPECIFICATIONS, OR WITHIN THE SPECIFICATIONS, MUST BE BROUGHT TO THE ATTENTION OF THE ARCHITECT AND ENGINEER DURING THE BIDDING PROCESS IN TIME TO PERMIT CLARIFICATION BY ADDENDUM. IF INCONSISTENCIES, DISCREPANCIES OR CONTRADICTIONS IN THE CONTRACT DOCUMENTS ARE DISCOVERED AFTER THE CLOSE OF BIDDING QUESTIONS, THE CONTRACTOR MUST BE DEEMED BY SUBMITTAL OF THEIR BID, TO HAVE BID THE MOST COSTLY AS TO LABOR, MATERIALS, DURATION, SEQUENCE AND METHOD OF CONSTRUCTION TO PROVIDE THE WORK.
- PRIOR TO ISSUING THE STRUCTURAL DRAWINGS FOR ANY PURPOSE, AUTHORIZATION MUST BE OBTAINED FROM THE STRUCTURAL ENGINEER OF RECORD. WHEN AUTHORIZED, THE DOCUMENTS THAT ARE RELEASED MUST BE CLEARLY IDENTIFIED WITH THE AUTHORIZED PURPOSE AND MUST INCLUDE THE DATE OF RELEASE.
- DESIGN CRITERIA:
 - CLASSIFICATION OF BUILDING RISK CATEGORY III
 - SUPER IMPOSED ROOF DEAD LOADS - UNIFORM:
 - LIGHTWEIGHT INSULATION CONCRETE (LWIC) 15 PSF
 - ROOF SYSTEM 2 PSF
 - CEILING SPRINKLERS 3 PSF
 - DUCTS, LIGHTS, MISC. MECHANICAL 5 PSF
 - TOTAL 25 PSF
 - SUPER IMPOSED FLOOR DEAD LOADS - UNIFORM:
 - FLOOR FINISH 3 PSF
 - CEILING SPRINKLERS 3 PSF
 - DUCTS, LIGHTS, MISC. MECHANICAL 5 PSF
 - TOTAL 13 PSF
 - LIVE LOADS - UNIFORM:
 - SLAB ON GRADE 100 PSF
 - ROOF CLASSROOMS 40 PSF
 - RESTROOMS, OFFICES, CONFERENCE STORAGE 60 PSF
 - MECHANICAL LOBBIES 150 PSF
 - CORRIDORS (FIRST FLOOR) PARTITION ALLOWANCE 100 PSF
 - CORRIDORS (ABOVE FIRST FLOOR) STAIRWAYS 80 PSF
 - 100 PSF
 - SNOW LOADS:
 - GROUND SNOW LOAD 15 PSF
 - FLAT ROOF LOAD 16.5 PSF
 - IMPORTANCE FACTOR (Is) 1.1
 - THERMAL FACTOR (Ct) 1.0
 - EXPOSURE FACTOR (Ce) 1.0
 - RAIN LOADS:
 - RAIN INTENSITY 6.3 IN/HR
 - WIND LOADS:
 - ULTIMATE DESIGN WIND SPEED (VULT) 120 MPH
 - NOMINAL DESIGN (VASD) WIND SPEED 93 MPH
 - EXPOSURE CATEGORY C
 - INTERNAL PRESSURE COEFFICIENT COMPONENT AND CLADDING PRESSURES:
 - WEST OF BUILDING EXPANSION JOINT:
 - WALLS, ZONE 5 (10 SF) 60 PSF
 - ROOF, ZONE 3 (10 SF) 72 PSF
 - PARAPET, END/CORNER (10 SF) 90 PSF
 - EAST OF BUILDING EXPANSION JOINT:
 - WALLS, ZONE 5 (10 SF) 60 PSF
 - ROOF, ZONE 3 (10 SF) 72 PSF
 - PARAPET, END/CORNER (10 SF) 90 PSF
 - ULTIMATE WIND BASE SHEARS (FOR MWFRS):
 - WEST OF BUILDING EXPANSION JOINT:
 - VE-W 75 KIPS
 - VN-S 410 KIPS
 - EAST OF BUILDING EXPANSION JOINT:
 - VE-W 334 KIPS
 - VN-S 203 KIPS
 - SEISMIC LOADS:
 - SITE CLASSIFICATION D
 - SEISMIC DESIGN CATEGORY B
 - IMPORTANCE FACTOR (IE) 1.25
 - SPECTRAL RESPONSE ACCELERATIONS:
 - S_s 0.188
 - S_{ms} 0.253
 - S_{ps} 0.169
 - S_{ml} 0.188
 - S_{pl} 0.125
 - ANALYSIS PROCEDURE EQUIVALENT LATERAL FORCE
 - LATERAL FORCE RESISTING SYSTEM STEEL SYSTEMS NOT SPECIFICALLY DETAILED FOR SEISMIC RESISTANCE. INTERMEDIATE REINFORCED MASONRY SHEAR WALLS
 - RESPONSE MODIFICATION COEFFICIENT (R) 3.0
 - SEISMIC RESPONSE COEFFICIENT (Cs) 0.070
 - WEST OF BUILDING EXPANSION JOINT:
 - ULTIMATE SEISMIC BASE SHEAR (V) 367 KIPS
 - EAST OF BUILDING EXPANSION JOINT:
 - ULTIMATE SEISMIC BASE SHEAR (V) 370 KIPS
 - LATERAL DESIGN CONTROL CONTROLLING LATERAL LOADS:
 - WEST OF BUILDING EXPANSION JOINT SEISMIC (X-DIR) WIND (Y-DIR)
 - EAST OF BUILDING EXPANSION JOINT SEISMIC (X-DIR) SEISMIC (Y-DIR)

RAMMED AGGREGATE PIER NOTES:

- ALL FOUNDATIONS AND ELEVATOR PITS MUST BE CONSTRUCTED ON SUBGRADE SOILS THAT HAVE BEEN IMPROVED WITH A RAMMED AGGREGATE PIER OR REINFORCED SYSTEM. THIS SYSTEM, UNLESS OTHERWISE NOTED, MUST BE DESIGNED TO SUPPORT THE UNFACTORED LOADS SHOWN IN THE RAMMED AGGREGATE PIER SCHEDULE ON S00.01 FOR ISOLATED COLUMN FOOTINGS. REFER TO FOUNDATION NOTE #2 FOR REQUIRED MINIMUM BEARING PRESSURE AT OTHER FOUNDATION ELEMENTS. THE RAMMED AGGREGATE PIER SYSTEM MUST BE DESIGNED TO LIMIT THE TOTAL SETTLEMENT OF FOUNDATION ELEMENTS TO A MAXIMUM OF 1/2 INCH AND TO LIMIT THE DIFFERENTIAL SETTLEMENT OF FOUNDATION ELEMENTS BETWEEN COLUMN GRIDS TO A MAXIMUM OF 1/2 INCH.
- DESIGNER / INSTALLER MUST REVIEW THE FOUNDATION SIZES NOTED ON THE CONTRACT DOCUMENTS. ANY LOCATIONS WHERE THE RAMMED AGGREGATE PIER DESIGNER / SUPPLIER REQUIRES LARGER FOUNDATIONS THAN THOSE NOTED IN THE CONTRACT DOCUMENTS (TO ACCOMMODATE THE REQUIRED NUMBER OF PIER ELEMENTS), MUST BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- SUBMIT A RAMMED AGGREGATE PIER DESIGN SUBMITTAL THAT INCLUDES PIER DESIGN CALCULATIONS AND CONSTRUCTION DRAWINGS, SEALED BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA, AT LEAST 4 WEEKS PRIOR TO COMMENCING OF WORK.
- PRIOR TO ANY EXCAVATIONS AFTER RAMMED AGGREGATE PIER ELEMENTS HAVE BEEN INSTALLED, CHECK THE PROXIMITY OF THE EXCAVATIONS TO ANY PIER ELEMENTS AND MAKE SURE THE INTEGRITY OF THE PIER ELEMENT IS MAINTAINED. LOCATE AND ADVISE THE PIER INSTALLER / DESIGNER OF ANY AND ALL POTENTIAL CONFLICTS WITH EXISTING AND / OR NEW UNDERGROUND UTILITIES.

RAMMED AGGREGATE PIER LOAD SCHEDULE

MARK	P (DL) Kips	P (LL) Kips	P (W or E) Kips
A-1	15	10	25
A-2.5	20	10	35
A-4.1	20	10	35
A-6	20	10	60
A-14	25	30	
A-15	35	40	
B-1	15	10	
B-6	25	10	10
B-8.1	25	15	
B-8.9	15	10	
B-5.1	30	15	
B-5.3	45	30	
B-5.6	40	20	
C-14	60	70	
C-15	70	85	
D-1	15	10	
D-2.1	35	20	15
D-4.1	40	30	15
D-6	55	35	
D-8.9	30	20	
D.4-12.1	80	45	
E-2	55	25	15
E-4	70	45	
E-5	90	75	15
E-7	90	75	50
E-8	45	30	20
E-9	25	15	
E-10	20	15	
E-11	15	10	
E-12	15	15	
E-13	20	10	
E-8-2	50	40	20
F-8	40	25	10
F-8.5	10	10	
F-9.3	15	10	
F-10	15	10	
F-11	15	10	
F-12.5	15	10	
F-13	15	10	
G-2	20	20	10
G-4	40	50	
G-5	65	75	
G-7	65	70	10
G-8	10	10	
H-2	25	20	
H-4	20	20	
H-5	10	15	
H-5.5	10	10	
J-2	60	35	
J-4	55	40	
J-5	50	40	
J-7	45	25	
K-2	80	50	
K-4	70	55	
K-5	70	45	

RAMMED AGGREGATE PIER LOAD SCHEDULE

MARK	P (DL) Kips	P (LL) Kips	P (W or E) Kips
K-7	80	30	
L-2	75	60	
L-4	65	65	
L-5	65	45	
L-7	70	35	
M-2	70	30	
M-4	65	45	
M-5	55	35	
M-7	70	35	
M.8-5	45	30	
N-2	65	35	
N-4	60	40	
N-7	70	45	
N.3-5	40	45	
P-2	35	20	
P-4	45	35	
P.1-5	45	65	
P.1-7	55	65	
P.7-2	10	10	
P.7-2.7	10	10	
Q-2	40	45	
Q-3.5	45	55	
Q-5	70	65	
Q-7	60	50	
R-2	70	60	
R-4	65	65	
R-5	65	45	105
R-7	75	35	
S-2	75	40	
S-4	65	45	
S-5	65	45	105
S-7	70	40	
T-2	75	40	
T-4	65	45	95
T-5	65	45	
T-7	70	40	
U-2	60	40	55
U-4	55	50	95
U-5	55	50	
U-7	55	45	
V-2	55	40	
V-4	55	50	
V-5	55	50	
V-7	55	45	
W-2	70	35	
W-4	65	45	
W-5	65	45	
W-7	70	40	
W.7-2	50	25	
X-4	65	45	
X-5	65	45	
X-7	70	40	
X.3-2	45	25	
Y-2	40	30	
Y-4	55	45	
Y-5	45	35	
Y-7	40	25	
Y.8-5	10	10	
Z-2	30	25	
Z-4	35	30	

FOUNDATION NOTES:

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, DATED APRIL 8, 2022 (TERRACON PROJECT NO. 70215172).
- FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING NEW ALLOWABLE SOIL BEARING PRESSURES:
 - A. BUILDING COLUMN FOOTINGS - 5,000 PSF (SOILS IMPROVED BY RAMMED AGGREGATE PIERS)
 - B. BUILDING WALL FOOTINGS - 4,000 PSF (SOILS IMPROVED BY RAMMED AGGREGATE PIERS)
 - C. ELEVATOR PITS - 4,000 PSF (SOILS IMPROVED BY RAMMED AGGREGATE PIERS)
 - D. CANOPY COLUMN FOOTINGS - 2,500 PSF (SOILS NOT IMPROVED BY RAMMED AGGREGATE PIERS)
 - E. MECHANICAL YARD WALL FOOTINGS - 2,500 PSF (SOILS NOT IMPROVED BY RAMMED AGGREGATE PIERS)
 - F. SITE RETAINING WALLS - 2,500 PSF (SOILS NOT IMPROVED BY RAMMED AGGREGATE PIERS)
- RETAINING WALLS IN THE MECHANICAL YARD HAVE BEEN DESIGNED FOR THE FOLLOWING LATERAL LOAD CRITERIA:
 - ACTIVE SOIL PRESSURE 50 PCF
 - PASSIVE PRESSURE 295 PCF
 - SOIL DENSITY 120 PCF
 - SOIL COEFFICIENT OF FRICTION 0.30

FOUNDATION NOTES (CONT):

- PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE OWNER'S SPECIAL INSPECTOR TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE OWNER'S GEOTECHNICAL SPECIAL INSPECTOR WHERE UNSATISFACTORY SOILS ARE PRESENT.
- NO UNBALANCED BACKFILLING MUST BE DONE AGAINST MASONRY OR CONCRETE WALLS UNLESS WALLS ARE SECURELY BRACED AGAINST OVERTURNING, EITHER BY TEMPORARY CONSTRUCTION BRACING OR BY PERMANENT CONSTRUCTION.
- CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
- CONCRETE MUST BE NORMAL WEIGHT UNLESS OTHERWISE DENOTED AS LW (LIGHTWEIGHT) AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
 - A. SLAB-ON-GRADE 3,500 PSI
 - B. SUPPORTED FLOOR SLABS 4,000 PSI LW
 - C. WALLS AND PEDESTALS 4,500 PSI
 - D. FOOTINGS 3,500 PSI
 - E. CONCRETE NOT OTHERWISE NOTED 3,000 PSI
- LIGHTWEIGHT CONCRETE MUST HAVE A DRY UNIT WEIGHT OF NOT LESS THAN 110 PCF AND NOT MORE THAN 116 PCF AFTER 28 DAYS.
- REINFORCING MATERIALS MUST BE AS FOLLOWS:
 - A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
 - B. WELDED REINFORCING BARS - ASTM A706, GRADE 60.
 - C. WELDED WIRE REINFORCEMENT - ASTM A1064, WELDED STEEL WIRE REINFORCEMENT; PROVIDE SHEET TYPE, ROLL TYPE IS NOT ACCEPTABLE.
 - D. DEFORMED BAR ANCHORS - ASTM A1064.
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS ANCHOR RODS AND WELD PLATES MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- CONCRETE COVER TO REINFORCING STEEL MUST CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.
- LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

CONCRETE MASONRY NOTES:

- CONCRETE MASONRY MATERIALS AND CONSTRUCTION MUST CONFORM TO THE AMERICAN CONCRETE INSTITUTE (ACI) 530.
- CONCRETE MASONRY UNITS MUST CONFORM TO ASTM C90 AND MUST BE MADE WITH LIGHTWEIGHT AGGREGATE. MINIMUM NET AREA COMPRESSIVE STRENGTH OF MASONRY UNITS MUST BE 2,000 PSI AT 28 DAYS.
- COMPRESSIVE STRENGTH OF MASONRY MUST BE DETERMINED BY THE UNIT STRENGTH METHOD AS SET FORTH IN ACI 530.1. THE NET AREA COMPRESSIVE STRENGTH OF MASONRY, f_m, MUST BE 2,000 PSI AT 28 DAYS.
- MORTAR MUST BE TYPE 'M' OR 'S' AND MUST COMPLY WITH ASTM C270, PROPORTIONS OR PROPERTIES SPECIFICATION.
- GROUT MUST COMPLY WITH EITHER THE PROPORTIONS OR PROPERTIES SPECIFICATION OF ASTM C476 AND AS FOLLOWS:
 - A. PROPORTIONS SPECIFICATION: THIS MIX CANNOT CONTAIN ADMIXTURES. WATER MUST BE ADDED IN THE FIELD IN ORDER TO ACHIEVE A SLUMP OF 8-11 INCHES WHEN PLACED IN THE CONCRETE MASONRY UNITS. MORTAR, PEA-GRAVEL CONCRETE, OR "CHAT" MIXES ARE NOT ACCEPTABLE SUBSTITUTES FOR THE SPECIFIED GROUT.
 - B. PROPERTIES SPECIFICATION: THIS MIX MUST BE PROPORTIONED TO OBTAIN A DOCUMENTED 28 DAY COMPRESSIVE STRENGTH OF 2,000 PSI, WITH AN 8-11 INCH SLUMP WHEN PLACED IN THE CONCRETE MASONRY UNITS.
- REINFORCING STEEL MUST COMPLY WITH ASTM A615, GRADE 60. SHOP FABRICATE REINFORCING BARS WHICH ARE SHOWN TO BE BENT OR HOOKED.
- ALL BOND BEAMS, REINFORCED CELLS AND CELLS WITH EXPANSION BOLTS, EMBED PLATES OR OTHER ANCHORS AND ALL CELLS BELOW GRADE MUST BE GROUTED SOLID. GROUT PROCEDURE MUST COMPLY WITH ACI 530.1.
- ALL CMU WALLS MUST BE REINFORCED CONTINUOUSLY FROM FOUNDATION TO TOP OF WALL. WHERE REINFORCING IS INTERRUPTED, OFFSET AND LAP ADDITIONAL BARS PER THE TYPICAL OFFSET SPLICE AT MASONRY WALL DETAILS.
- LAP ALL REINFORCING PER SCHEDULE BELOW, TYPICAL UNLESS OTHERWISE NOTED:

MASONRY LAP SCHEDULE

REINF SIZE	72 x BAR DIAMETER
#4	36"
#5	45"
#6	54"
#7	63"
#8	72"

- PROVIDE ONE VERTICAL BAR EACH SIDE OF ALL OPENINGS AND CONTROL JOINTS, AND AT CORNERS AND INTERSECTIONS OF ALL MASONRY WALLS, BOTH BEARING AND NON-BEARING WALLS. SHOW CONTROL JOINT LOCATIONS ON THE REINFORCING STEEL SHOP DRAWINGS.
- ALL NON-BEARING MASONRY WALLS MUST BE REINFORCED WITH #5 VERTICAL BARS AT 32 INCHES ON CENTER, TYPICAL UNLESS OTHERWISE NOTED. ALL NON-BEARING MASONRY WALLS MUST BE BRACED PER TYPICAL NON-BEARING MASONRY PARTITION DETAILS.
- PROVIDE REINFORCING STEEL DOWELS OF THE SAME SIZE AND SPACING AS VERTICAL REINFORCING FROM THE SUPPORTING STRUCTURE. DOWELS MUST HAVE STANDARD ACI HOOKS.
- PROVIDE STANDARD 9 GAGE LADDER TYPE HORIZONTAL JOINT REINFORCING IN CMU WALLS AT 16 INCHES ON CENTER AND IN TWO JOINTS IMMEDIATELY ABOVE AND BELOW ALL OPENINGS, EXTENDING A MINIMUM OF 2 FEET BEYOND THE JAMB ON EACH SIDE OF THE OPENING, EXCEPT AT CONTROL JOINTS.
- PROVIDE HORIZONTAL BOND BEAMS WITH CONTINUOUS REINFORCING AS SHOWN IN THE SECTIONS AND DETAILS. DISCONTINUE ALL HORIZONTAL REINFORCING AT CONTROL JOINTS EXCEPT FOR THE BOND BEAMS AT JOIST BEARING ELEVATIONS.
- DO NOT LOCATE CONTROL JOINTS WITHIN TWO FEET OF STEEL BEAM BEARING LOCATIONS.

STRUCTURAL STEEL NOTES:

- STRUCTURAL STEEL MUST BE IN ACCORDANCE WITH THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) 360.
- STRUCTURAL STEEL MUST COMPLY WITH THE FOLLOWING SPECIFICATIONS:
 - A. STRUCTURAL STEEL SHAPES, PLATES AND BARS UNLESS OTHERWISE NOTED - ASTM A36, Fy = 36 KSI
 - B. STRUCTURAL STEEL W-SHAPES - ASTM A992, Fy = 50 KSI
 - C. HOLLOW STRUCTURAL SECTIONS (HSS):
 - a. SQUARE AND RECTANGULAR - ASTM A500, GRADE C, Fy = 50 KSI
 - D. ANCHOR RODS - ASTM F1554, GRADE 36
 - E. HIGH STRENGTH BOLTS - ASTM A325 (TYPICAL UON)
 - F. FULLY PRETENSIONED BOLTS - ASTM F1852 (TWIST-OFF TYPE)
 - G. WASHERS - ASTM F436
 - H. NUTS - ASTM A563
- UNLESS OTHERWISE NOTED, ALL REQUIRED DESIGN STRENGTHS AND REACTIONS INDICATED ARE BASED ON THE "LOADING COMBINATIONS USING STRENGTH DESIGN OR LOAD AND RESISTANCE FACTOR DESIGN" PER SECTION 1605.2 OF THE BUILDING CODE.
- STRUCTURAL STEEL FRAME IS CONSIDERED AS RESTRAINED FOR FIRE PROTECTION PURPOSES.
- UNLESS OTHERWISE NOTED, BEAM CONNECTIONS MUST BE AISC "SIMPLE SHEAR CONNECTIONS" WITH ASTM A325 BOLTS. DESIGN CONNECTIONS FOR THE REACTIONS (LRFD FACTORED LOADING) SHOWN ON THE DRAWINGS AND THE MINIMUM NUMBER OF BOLTS SHOWN BELOW. IF NO REACTION IS SHOWN, DESIGN CONNECTIONS FOR REACTIONS AND THE MINIMUM NUMBER OF BOLTS SHOWN BELOW.

BEAM SIZE	DESIGN REACTION (LRFD)	MIN # OF BOLTS
W8	17 KIPS	2
W10 AND W12	20 KIPS	2
W14	25 KIPS	3
W16 & 18	35 KIPS	4
W21	40 KIPS	5
W24	45 KIPS	6
W27	50 KIPS	6
W30 AND GREATER	60 KIPS	6

- HIGH STRENGTH BOLTS MAY BE TIGHTENED TO THE "SNUG TIGHT" CONDITION IN LIEU OF FULL PRETENSIONING EXCEPT FOR THE FOLLOWING CONNECTIONS WHICH MUST BE FULLY PRETENSIONED:
 - A. BOLTED CONNECTIONS USING NON-STANDARD HOLES.
 - B. ALL FRAMING CONNECTIONS AT BRACED FRAMES.
- REFER TO THE SPECIFICATIONS FOR REQUIREMENTS OF "DELEGATED DESIGN" CONNECTIONS.
- FOR STRUCTURAL STEEL CONNECTIONS INDICATED AS "DELEGATED DESIGN", INCLUDE STRUCTURAL CALCULATIONS SIGNED AND SEALED BY THE QUALIFIED PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF NORTH CAROLINA RESPONSIBLE FOR THEIR PREPARATION. IN ADDITION, THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST REVIEW THE SHOP DRAWINGS PRIOR TO SUBMITTAL TO VERIFY THAT THE CONNECTIONS AS DETAILED ON THE SHOP DRAWINGS COMPLY WITH THE CONNECTION DESIGN REQUIREMENTS OF THE FINAL CALCULATIONS. A REVIEW LETTER, SIGNED AND SEALED BY THE PROFESSIONAL ENGINEER RESPONSIBLE FOR CONNECTION DESIGN MUST BE PROVIDED WITH THE SHOP DRAWINGS AND CALCULATION SUBMITTAL STATING THAT THIS REVIEW AND VERIFICATION HAS BEEN COMPLETED.
- DELEGATED DESIGN CONNECTIONS (AISC OPTION 3) ARE AS FOLLOWS:
 - A. BRACED FRAMES
 - B. COLLECTOR BEAMS
 - C. MOMENT FRAMES
 - D. SHEAR CONNECTIONS
 - E. LINTEL AND WIND GIRTS
- PROVIDE ANGLE FRAMING AROUND OPENINGS LARGER THAN 6 INCHES IN ANY DIMENSION (INCLUDING ROOF DRAINS) TO SUPPORT STEEL DECK, TYPICAL UNLESS OTHERWISE NOTED OR DETAILED AS FOLLOWS:

JOIST/BEAM SPACING	ANGLE SIZE
TO 6'-0"	L4x4x1/4
6'-1" TO 10'-0"	L5x5x5/16
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.1, "STRUCTURAL WELDING CODE - STEEL" WELD ELECTRODES MUST BE E70XX LOW HYDROGEN, UNLESS OTHERWISE NOTED, PROVIDE CONTINUOUS FILLET WELDS WITH MINIMUM SIZE REQUIRED BY TABLE J2.4 AISC 360.
- COORDINATE ALL MEMBER LOCATIONS, UNIT WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED.
- STRUCTURAL STEEL SCHEDULED TO RECEIVE SPRAYED-ON FIREPROOFING MUST NOT BE PRIME PAINTED.
- HOT-DIP GALVANIZE AFTER FABRICATION THE FOLLOWING:
 - A. ANGLES AND PLATES SUPPORTING MASONRY IN EXTERIOR WALLS.
 - B. LINTELS AND LINTEL ASSEMBLIES SUPPORTING MASONRY IN EXTERIOR WALLS.
 - C. ALL STEEL EXPOSED TO WEATHER IN THE FINAL CONSTRUCTION.
 - D. ITEMS IDENTIFIED AS GALVANIZED ON ARCHITECTURAL OR STRUCTURAL DRAWINGS.
- MEMBERS INDICATED AS DIAPHRAGM CHORDS (DC) MUST HAVE FULL PENETRATION BUTT WELD SPLICES, UNLESS OTHERWISE NOTED.
- STEEL MEMBERS MUST BE SPLICED ONLY WHERE INDICATED.

COLD-FORMED METAL FRAMING NOTES:

- COLD-FORMED METAL FRAMING MUST BE IN ACCORDANCE WITH THE AMERICAN IRON AND STEEL INSTITUTE (AISI) "NORTH AMERICAN STANDARD FOR COLD-FORMED STEEL FRAMING - GENERAL PROVISIONS"
- SUBMIT SHOP DRAWINGS SIGNED AND SEALED BY A NORTH CAROLINA LICENSED PROFESSIONAL ENGINEER RESPONSIBLE FOR THE DESIGN OF COLD-FORMED METAL FRAMING. SHOP DRAWINGS MUST INCLUDE DESIGN LOADINGS AND REACTIONS APPLIED TO THE SUPPORTING STRUCTURE. INCLUDE PLACING DRAWINGS FOR FRAMING MEMBERS SHOWING SIZE AND GAGE DESIGNATIONS, NUMBER, TYPE, LOCATION AND SPACING, INDICATE CONNECTIONS, SUPPLEMENTAL STRAPPING, BRACING, SPLICES, BRIDGING, ACCESSORIES AND DETAILS AND CONSTRUCTION SEQUENCE REQUIRED FOR PROPER AND SAFE INSTALLATION.
- WELDING MUST BE IN ACCORDANCE WITH AWS D1.3, "STRUCTURAL WELDING CODE - SHEET STEEL". TOUCH UP ALL WELDS WITH SPECIFIED COATING SYSTEMS.
- COLD-FORMED METAL FRAMING MEMBERS MUST CONFORM TO ASTM C955, AND BE FORMED OF CORROSION-RESISTANT STEEL CONFORMING TO ASTM A653 AND ASTM C955 WITH A MINIMUM YIELD STRENGTH OF 33 KSI FOR 43 MIL AND THINNER MEMBERS AND 50 KSI FOR ALL OTHER MEMBERS.
- MEMBER SECTION PROPERTIES MUST CONFORM TO PART 'I' OF THE "COLD-FORMED STEEL DESIGN MANUAL."
- COLD-FORMED METAL FRAMING MEMBERS, HEADERS AND CONNECTIONS SHOWN ON STRUCTURAL AND ARCHITECTURAL DRAWINGS ARE SCHEMATIC ONLY AND MUST BE DESIGNED TO MEET PERFORMANCE SPECIFICATION REQUIREMENTS.
- PROVIDE BRIDGING LINES AT 4'-0" MAXIMUM ON CENTER IN ALL WALLS UNLESS OTHERWISE INDICATED. BRIDGING MUST BE FULLY INSTALLED AND ANCHORED AT ENDS BEFORE SUPERIMPOSING LOADS ONTO THE STUDS.



Wake County Public School System



434 FAYETTEVILLE STREET SUITE 1700 RALEIGH, NORTH CAROLINA 27601 TEL. 919.829.2730 FAX. 919.829.2700 WWW.LS3P.COM



Structural Engineers 301 N West St., Suite 105 Raleigh, NC 27603 919.782.1833 - lynchmykins.com LM Project Number: LMX.XXX Corporation No. C-4360



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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LS3P PROJECT: 8201-20

THESE DIMENSIONS BE EXACTLY ONE DIMENSION FROM THE OTHER DIMENSION

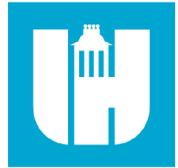
COLUMN FOOTING SCHEDULE						
MARK	SIZE			REINFORCING		TOP
	LENGTH	WIDTH	DEPTH	BOTTOM	BOTTOM	
CF3	3'-0"	3'-0"	1'-0"	(3) #5 EW	-	-
CF4	4'-0"	4'-0"	1'-0"	(4) #5 EW	-	-
CF4A	4'-0"	4'-0"	1'-6"	(6) #5 EW	(6) #5 EW	-
CF5	5'-0"	5'-0"	1'-3"	(6) #5 EW	-	-
CF5A	5'-0"	5'-0"	1'-6"	(8) #5 EW	(8) #5 EW	-
CF6	6'-0"	6'-0"	1'-6"	(8) #5 EW	-	-
CF7	7'-0"	7'-0"	1'-10"	(11) #5 EW	-	-
CF7A	7'-0"	7'-0"	1'-10"	(11) #5 EW	(11) #5 EW	-
CF10x7	10'-0"	7'-0"	2'-6"	(11) #6 LW, (15) #6 SW	(11) #6 LW, (15) #6 SW	-

WALL FOOTING SCHEDULE				
MARK	SIZE		REINFORCING	
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE
WF2	2'-0"	1'-0"	(3) #4 BOT	#4 AT 48" OC BOT
WF3	3'-0"	1'-0"	(4) #4 BOT	#4 AT 48" OC BOT
WF4	4'-0"	1'-0"	(4) #5 BOT	#4 AT 48" OC BOT
WF5	5'-0"	1'-6"	(7) #5 T&B	#5 AT 12" OC T&B
WF6	6'-0"	1'-6"	(8) #5 T&B	#5 AT 12" OC T&B

MAT FOOTING SCHEDULE			
MARK	DEPTH	REINFORCING	
		BOTTOM	TOP
MF1	1'-0"	#4 AT 12" OC EW	#4 AT 12" OC EW
MF2	2'-6"	#8 AT 12" OC EW	#8 AT 12" OC EW

FOUNDATION PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 464.00'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. TOP OF ALL FOOTINGS MUST BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED.
- D. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "UTILITY SLEEVE DETAIL".
- E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 16 INCHES BEYOND ENDS OF WALLS.
- F. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.



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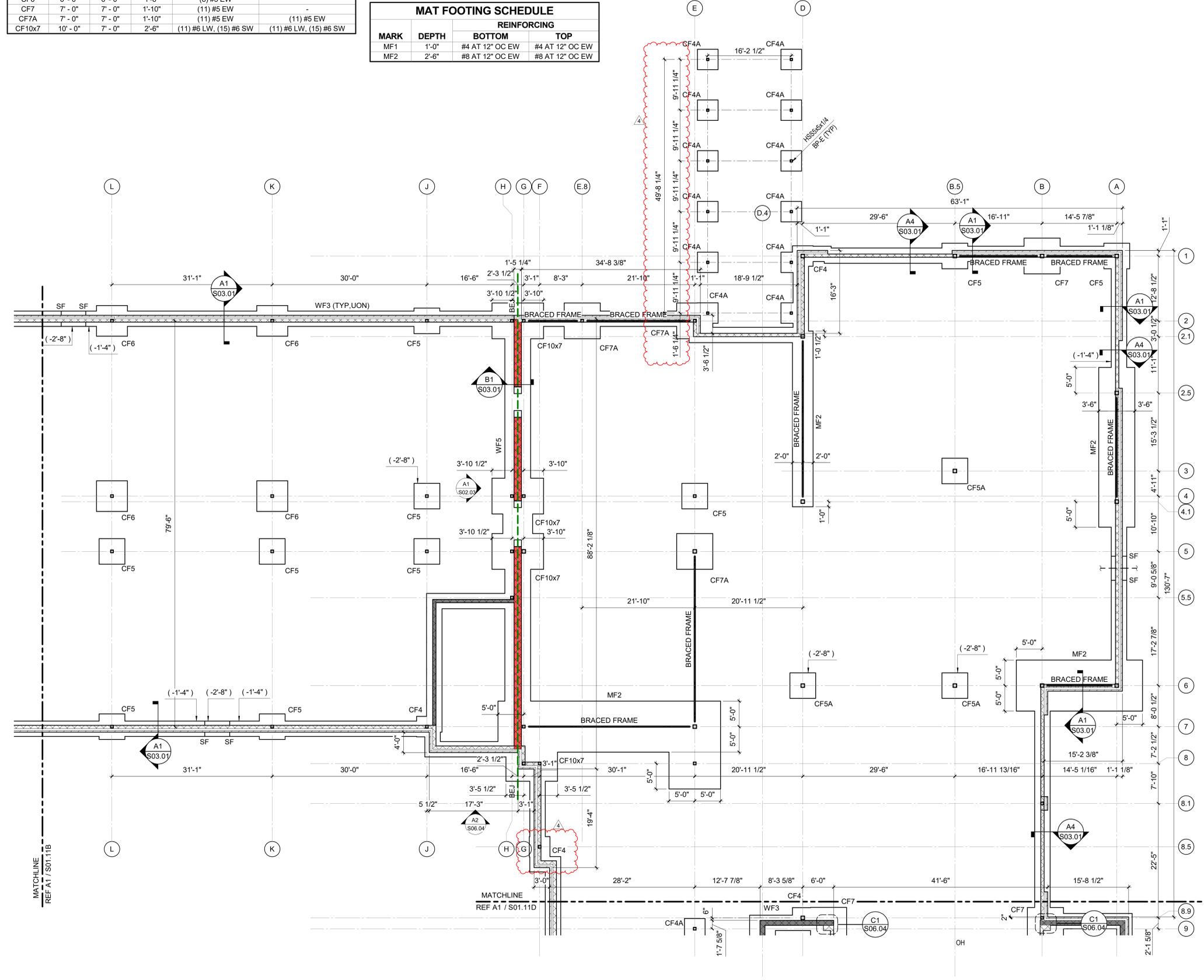


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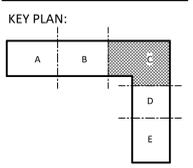
Swift Creek Elementary School 5601 Tryon Rd Raleigh, NC 27606 LSP PROJECT: 8201-207411



KEY NOTES

PLAN NORTH LEVEL 1 FOUNDATION PLAN - AREA C 1/8" = 1'-0"

DATE	DESCRIPTION
4/30/24	Addendum 4



SHEET NAME: LEVEL 1 FOUNDATION PLAN - AREA C

BID SET SUBMISSION: 2024.04.10

SHEET: S01.11C

BID SET

THESE DIMENSIONS BE EXACTLY ONE HUNDRED AND EIGHTH PART OF AN INCH

E

D

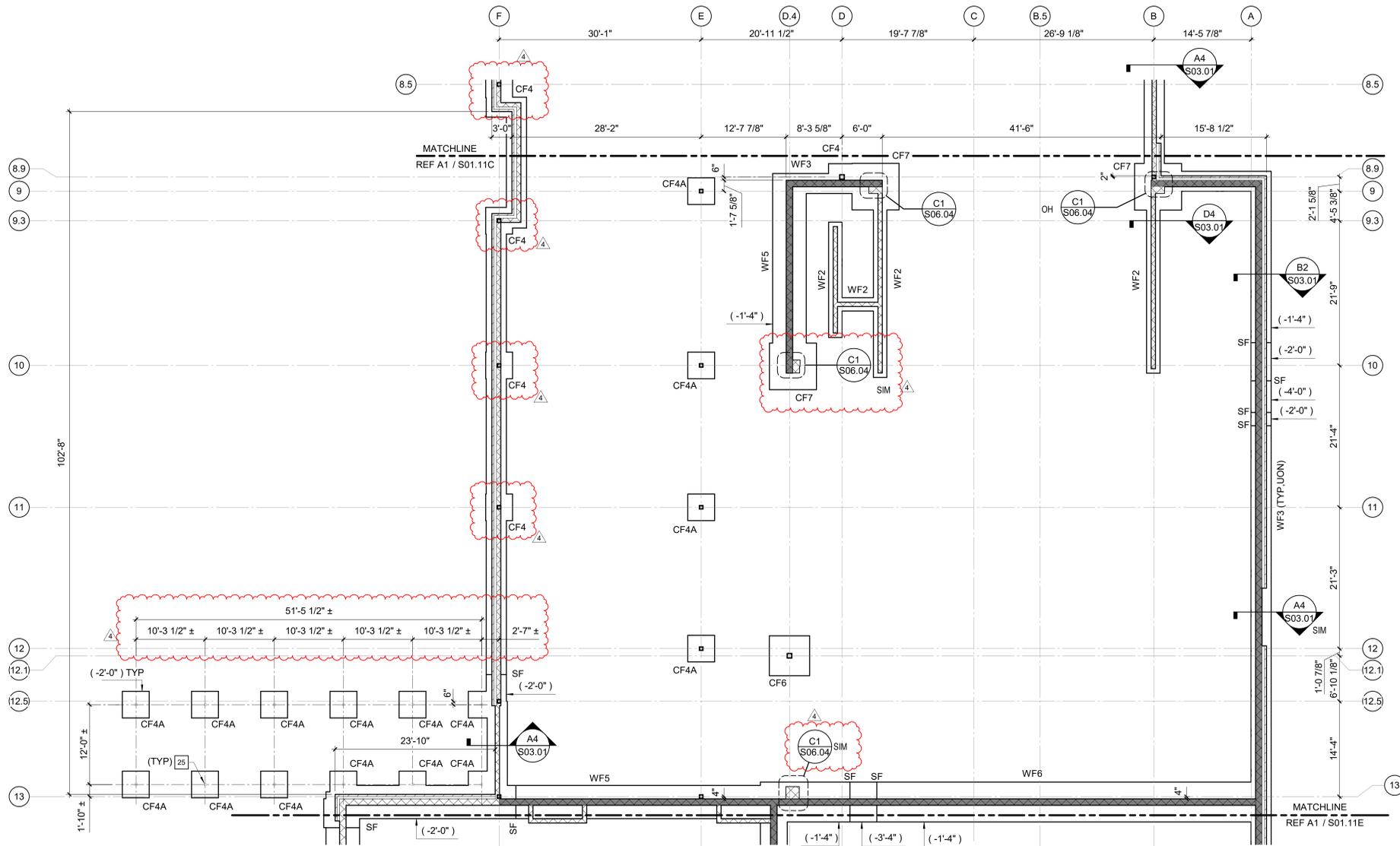
C

B

A

COLUMN FOOTING SCHEDULE						
MARK	SIZE			REINFORCING		
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
CF3	3' - 0"	3' - 0"	1'-0"	(3) #5 EW	-	
CF4	4' - 0"	4' - 0"	1'-0"	(4) #5 EW	-	
CF4A	4' - 0"	4' - 0"	1'-6"	(6) #5 EW	(6) #5 EW	
CF5	5' - 0"	5' - 0"	1'-3"	(6) #5 EW	-	
CF5A	5' - 0"	5' - 0"	1'-6"	(8) #5 EW	(8) #5 EW	
CF6	6' - 0"	6' - 0"	1'-6"	(8) #5 EW	-	
CF7	7' - 0"	7' - 0"	1'-10"	(11) #5 EW	-	
CF7A	7' - 0"	7' - 0"	1'-10"	(11) #5 EW	(11) #5 EW	
CF10x7	10' - 0"	7' - 0"	2'-6"	(11) #6 LW, (15) #6 SW	(11) #6 LW, (15) #6 SW	

WALL FOOTING SCHEDULE					
MARK	SIZE		REINFORCING		
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE	
WF2	2' - 0"	1'-0"	(3) #4 BOT	#4 AT 48" OC BOT	
WF3	3' - 0"	1'-0"	(4) #4 BOT	#4 AT 48" OC BOT	
WF4	4' - 0"	1'-0"	(4) #5 BOT	#4 AT 48" OC BOT	
WF5	5' - 0"	1'-6"	(7) #5 T&B	#5 AT 12" OC T&B	
WF6	6' - 0"	1'-6"	(8) #5 T&B	#5 AT 12" OC T&B	

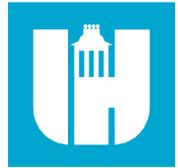


FOUNDATION PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 464.00'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. TOP OF ALL FOOTINGS MUST BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED.
- D. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "UTILITY SLEEVE DETAIL".
- E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 16 INCHES BEYOND ENDS OF WALLS.
- F. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.

KEY NOTES

- 25. PREFABRICATED CANOPY COLUMN - REFER TO TYPICAL PREFABRICATED CANOPY FOOTING DETAIL. CONTRACTOR SHALL COORDINATE CONCRETE PEDESTAL AND FOOTING LOCATION WITH PRE-FABRICATED CANOPY DIMENSIONS.



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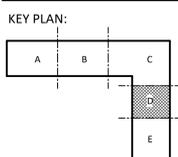
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LM Project Number: LMXX,XXX
Corporation No. C-4360



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LSP PROJECT: 8201-207411

DATE	DESCRIPTION
4/30/24	Addendum 4



SHEET NAME:
LEVEL 1
FOUNDATION PLAN
- AREA D

BID SET SUBMISSION: 2024.04.10

SHEET:
S01.11D

PLAN NORTH
A1 LEVEL 1 FOUNDATION PLAN - AREA D
1/8" = 1'-0"

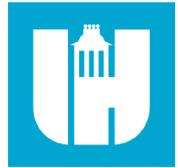
THESE DIMENSIONS BE EXACTLY ONE HUNDRED AND SIXTYEIGHTS OF AN INCH

COLUMN FOOTING SCHEDULE						
MARK	SIZE			REINFORCING		
	LENGTH	WIDTH	DEPTH	BOTTOM	TOP	
CF3	3'-0"	3'-0"	1'-0"	(3) #5 EW	-	
CF4	4'-0"	4'-0"	1'-0"	(4) #5 EW	-	
CF4A	4'-0"	4'-0"	1'-6"	(6) #5 EW	(6) #5 EW	
CF5	5'-0"	5'-0"	1'-3"	(6) #5 EW	-	
CF5A	5'-0"	5'-0"	1'-6"	(8) #5 EW	(8) #5 EW	
CF6	6'-0"	6'-0"	1'-6"	(8) #5 EW	-	
CF7	7'-0"	7'-0"	1'-10"	(11) #5 EW	-	
CF7A	7'-0"	7'-0"	1'-10"	(11) #5 EW	(11) #5 EW	
CF10x7	10'-0"	7'-0"	2'-6"	(11) #6 LW, (15) #6 SW	(11) #6 LW, (15) #6 SW	

WALL FOOTING SCHEDULE				
MARK	SIZE		REINFORCING	
	WIDTH	DEPTH	CONTINUOUS	TRANSVERSE
WF2	2'-0"	1'-0"	(3) #4 BOT	#4 AT 48" OC BOT
WF3	3'-0"	1'-0"	(4) #4 BOT	#4 AT 48" OC BOT
WF4	4'-0"	1'-0"	(4) #5 BOT	#4 AT 48" OC BOT
WF5	5'-0"	1'-6"	(7) #5 T&B	#5 AT 12" OC T&B
WF6	6'-0"	1'-6"	(8) #5 T&B	#5 AT 12" OC T&B

FOUNDATION PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 464.00'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. TOP OF ALL FOOTINGS MUST BE AT ELEVATION -1'-4" UNLESS OTHERWISE NOTED.
- D. NOT ALL UTILITY LOCATIONS ARE SHOWN ON PLAN. THE CONTRACTOR MUST COORDINATE THE LOCATIONS, SIZES, AND INVERTS OF UTILITIES. AT LOCATIONS WHERE UTILITIES PASS BELOW THE TOP OF FOOTING ELEVATION, STEP THE TOP OF FOOTING DOWN ON EACH SIDE PER THE "STEPPED FOOTING DETAIL" AND SLEEVE THE UTILITY THROUGH THE FOUNDATION WALL. THE CONTRACTOR MAY, AT HIS/HER OPTION, SLEEVE THE UTILITY THROUGH THE FOUNDATION PER THE "UTILITY SLEEVE DETAIL".
- E. UNLESS OTHERWISE INDICATED, EXTEND WALL FOOTINGS A MINIMUM OF 16 INCHES BEYOND ENDS OF WALLS.
- F. DIMENSIONS SHOWN ON FOUNDATION PLAN ARE TO COLUMN GRIDLINES AND OUTSIDE FACE OF FOUNDATION WALLS, UNLESS OTHERWISE NOTED.



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LM Project Number: LMXX.XXX
Corporation No. C-4360



04/30/2024

Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LSP PROJECT: 8201-207411

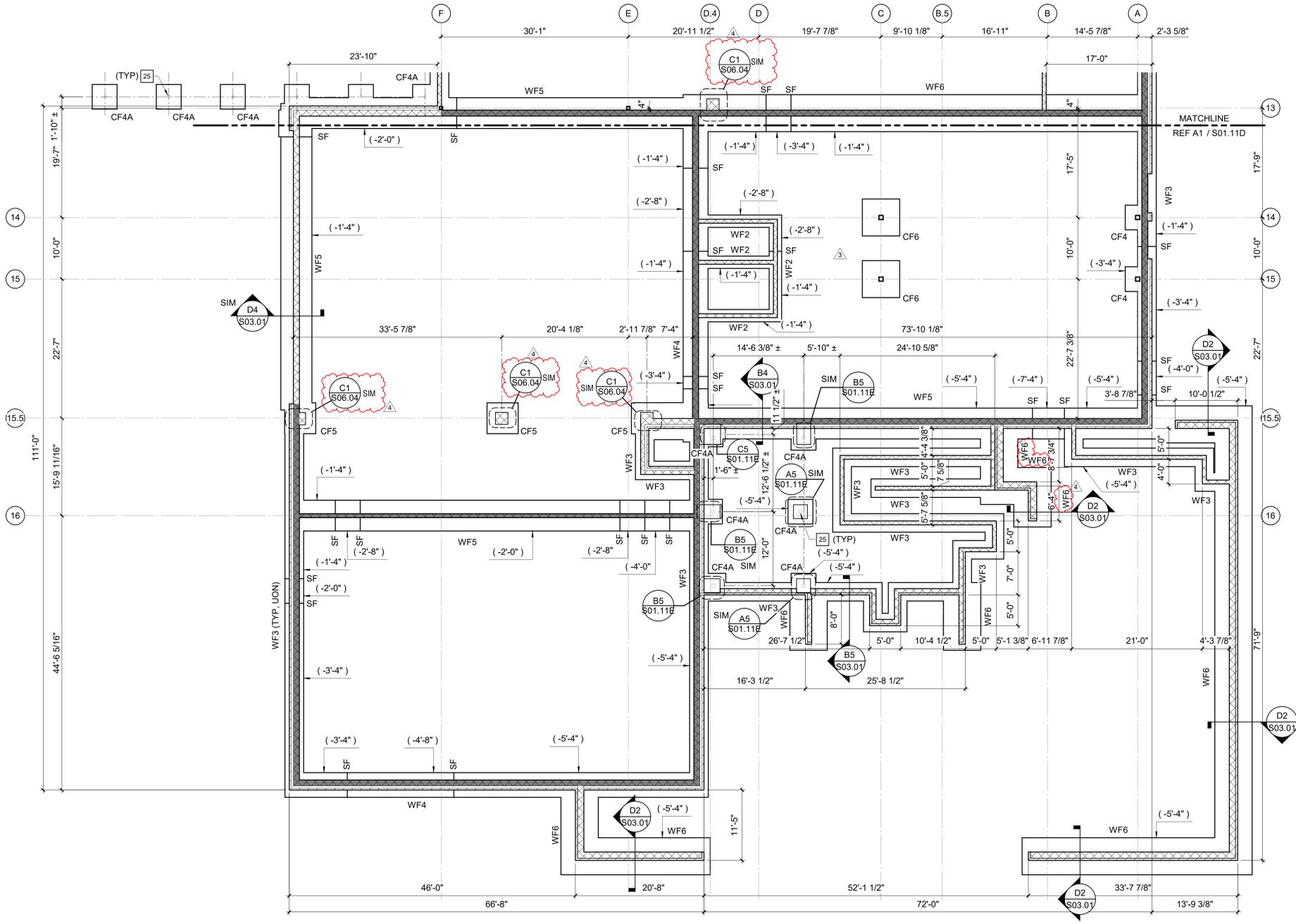
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C

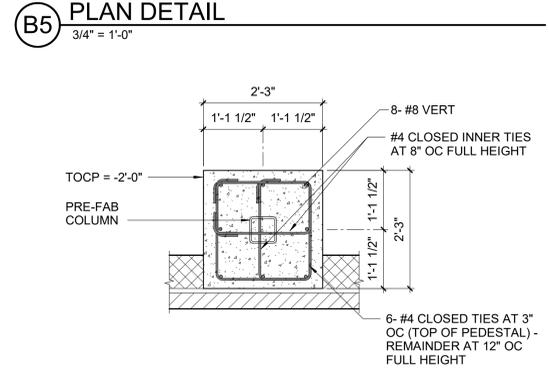
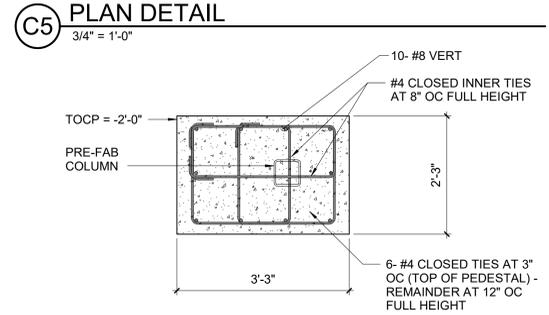
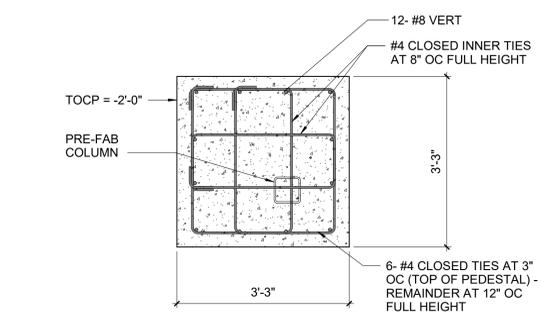
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A



KEY NOTES

- 25 PREFABRICATED CANOPY COLUMN - REFER TO TYPICAL PREFABRICATED CANOPY FOOTING DETAIL. CONTRACTOR SHALL COORDINATE CONCRETE PEDESTAL AND FOOTING LOCATION WITH PRE-FABRICATED CANOPY DIMENSIONS.



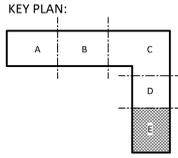
(C5) PLAN DETAIL
3/4" = 1'-0"

(B5) PLAN DETAIL
3/4" = 1'-0"

(A5) PLAN DETAIL
NTS

(A1) LEVEL 1 FOUNDATION PLAN - AREA E
1/8" = 1'-0"

DATE	DESCRIPTION
3/4/23/24	Addendum 3
4/30/24	Addendum 4



SHEET NAME:
LEVEL 1
FOUNDATION PLAN
- AREA E

BID SET SUBMISSION: 2024.04.10

SHEET:
S01.11E

BID SET

THESE DIMENSIONS ARE EXACTLY ONE DIMENSION MORE THAN THE DIMENSIONS SHOWN ON THE DRAWING.

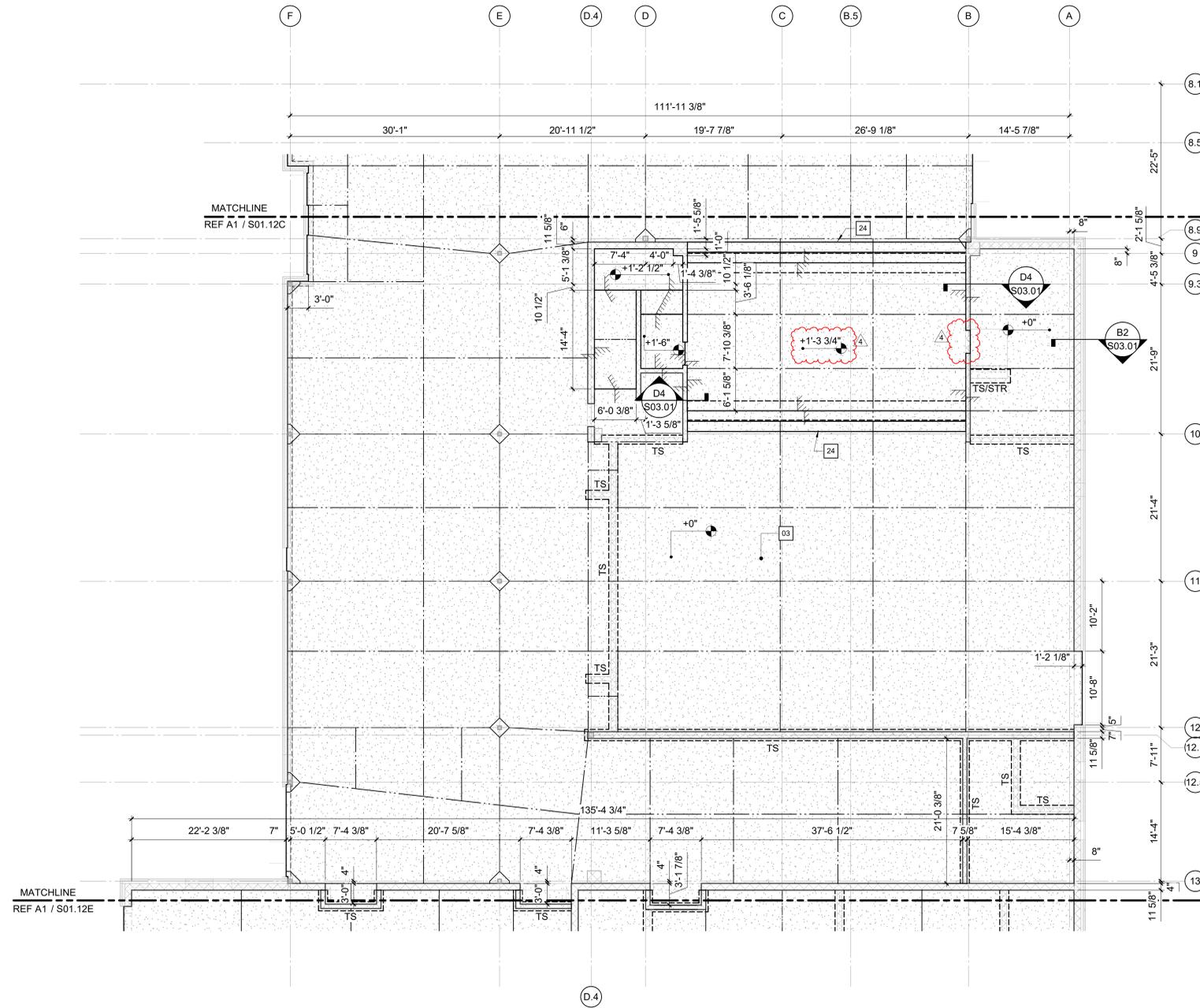
E

D

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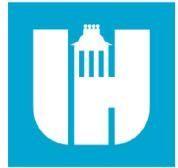


SLAB PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 464.00'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS AND OMITTED SLABS.
- D. FLOOR SINKS AND DRAINS ARE NOT SHOWN ON PLAN. REFERENCE PME DRAWINGS FOR LOCATIONS.
- E. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.
- F. SLAB-ON-GRADE JOINTS MUST BE SAWS JOINTS OR KEYED CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
- G. PLACE (1) #4 x 3'-0" IN MIDDLE OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT OCCUR.
- H. BELOW POROUS FILL, 3 FOOT DEPTH OF EXISTING SOILS MUST BE REMOVED AND REPLACED WITH ENGINEERED FILL CONSISTING OF APPROVED FILL MATERIAL. APPROVED FILL MATERIAL INCLUDES IMPORTED OR ON-SITE LOW-TO-MODERATE PLASTICITY SOIL. THIS INCLUDES THE FOLLOWING USCS CLASSIFICATIONS: CL, ML, CL-ML, SC, SM, SC-SM.

KEY NOTES

- 03 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL (NCDOT AGGREGATE BASE COURSE) UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6-W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1 1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 24 CONCRETE STAIR ON GRADE. REFERENCE TYPICAL DETAIL.



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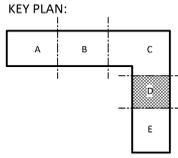
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Swift Creek Elementary School

5601 Tryon Rd Raleigh, NC 27606

LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
4/30/24	Addendum 4



SHEET NAME: LEVEL 1 SLAB PLAN - AREA D

BID SET SUBMISSION: 2024.04.10

SHEET: S01.12D

PLAN NORTH LEVEL 1 SLAB PLAN - AREA D 1/8" = 1'-0"

THESE DIMENSIONS ARE EXACTLY ONE FOOT AND ONE INCH PER FOOT

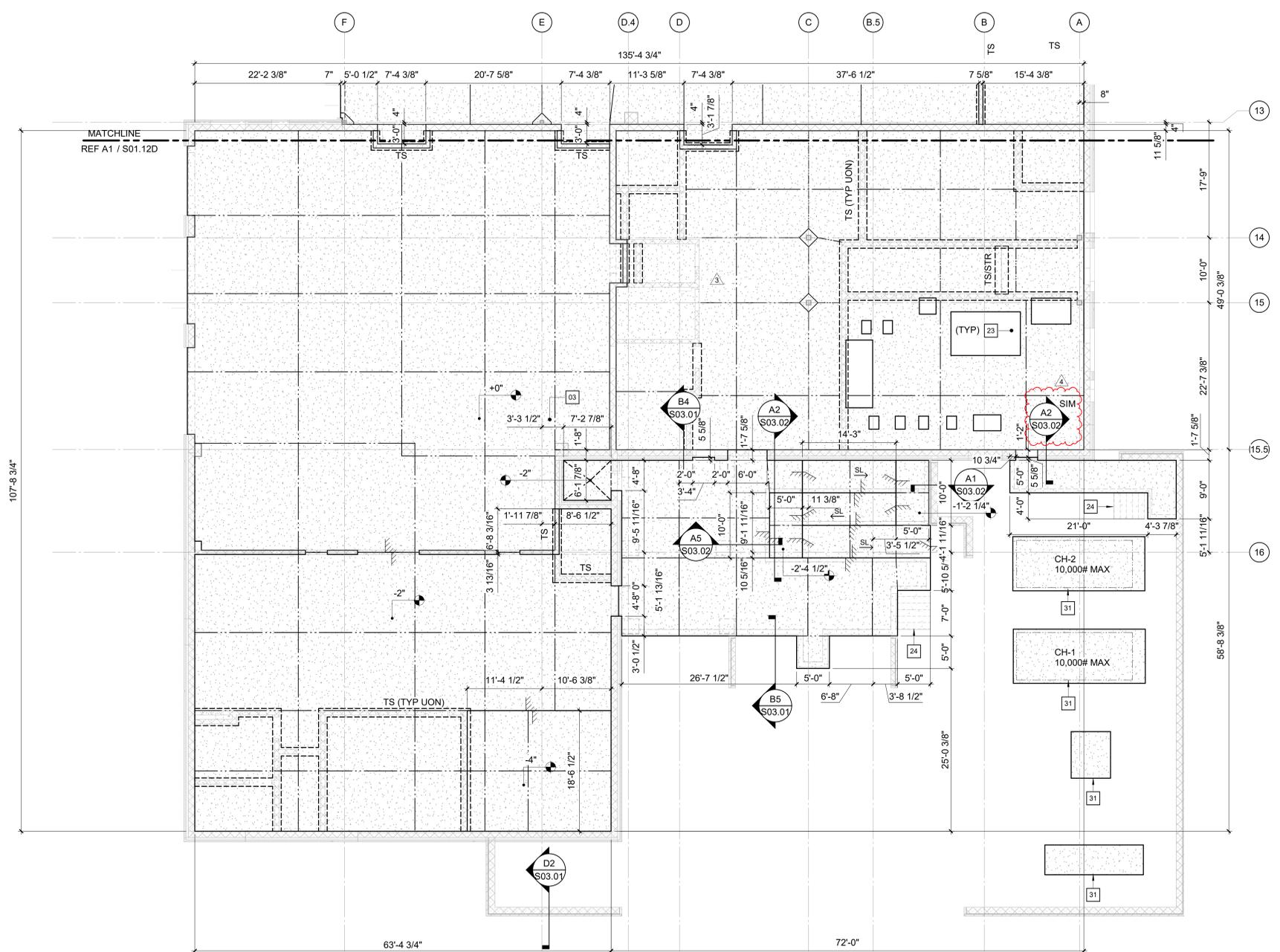
E

D

C

B

A



SLAB PLAN NOTES

- A. REFERENCE ARCHITECTURAL DRAWINGS FOR DIMENSIONS TO NONBEARING WALLS, WALL CONTROL JOINTS AND OPENINGS.
- B. UNLESS OTHERWISE NOTED, ALL ELEVATIONS ARE BASED ON A FINISHED FIRST FLOOR REFERENCE OF 0'-0". ACTUAL FINISHED FLOOR ELEVATION IS 464.00'. FINISHED FLOOR ELEVATIONS AT EACH LEVEL ARE INDICATED ON SLAB PLANS. REFERENCE ARCHITECTURAL DRAWINGS FOR FINISHED FLOOR MATERIALS.
- C. REFERENCE ARCHITECTURAL DRAWINGS FOR EXACT LIMITS OF SLAB DEPRESSIONS AND OMITTED SLABS.
- D. FLOOR SINKS AND DRAINS ARE NOT SHOWN ON PLAN. REFERENCE PME DRAWINGS FOR LOCATIONS.
- E. REFERENCE CIVIL AND LANDSCAPE DRAWINGS FOR EXTERIOR CONCRETE SLABS AND PAVING.
- F. SLAB-ON-GRADE JOINTS MUST BE SAWS JOINTS OR KEYED CONSTRUCTION JOINTS, UNLESS OTHERWISE NOTED. CONTRACTOR MUST COORDINATE ALL SLAB JOINTS WITH JOINTS IN BONDED FLOOR FINISHES. REFERENCE ARCHITECTURAL DRAWINGS FOR FLOOR FINISH JOINT LOCATIONS.
- G. PLACE (1) #4 x 3'-0" IN MIDDLE OF SLAB AT RE-ENTRANT CORNERS WHERE A SLAB JOINT DOES NOT OCCUR.
- H. BELOW POROUS FILL, 3 FOOT DEPTH OF EXISTING SOILS MUST BE REMOVED AND REPLACED WITH ENGINEERED FILL CONSISTING OF APPROVED FILL MATERIAL. APPROVED FILL MATERIAL INCLUDES IMPORTED OR ON-SITE LOW-TO-MODERATE PLASTICITY SOIL. THIS INCLUDES THE FOLLOWING USCS CLASSIFICATIONS: CL, ML, CL-ML, SC, SM, SC-SM.

KEY NOTES

- 03 4" CONCRETE SLAB-ON-GRADE OVER VAPOR RETARDER AND 4" DEPTH OF POROUS FILL (NCDOT AGGREGATE BASE COURSE) UNLESS OTHERWISE INDICATED. REINFORCE SLAB WITH 6x6-W2.1xW2.1 WELDED WIRE REINFORCING PLACED 1 1/2" CLEAR BELOW TOP OF SLAB. MAINTAIN REINFORCEMENT IN POSITION ON BOLSTERS, CHAIRS OR SPACERS DURING CONCRETE PLACEMENT.
- 23 CONCRETE HOUSEKEEPING PAD AT MECHANICAL EQUIPMENT - REFER TO TYPICAL DETAIL. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS.
- 24 CONCRETE STAIR ON GRADE. REFERENCE TYPICAL DETAIL.
- 31 EXTERIOR EQUIPMENT PAD AT MECHANICAL EQUIPMENT. REFER TO TYPICAL DETAIL. COORDINATE EXACT SIZE AND LOCATION WITH MECHANICAL DRAWINGS.

PLAN NORTH
A1
 LEVEL 1 SLAB PLAN - AREA E
 1/8" = 1'-0"



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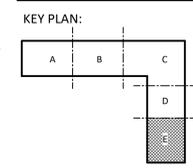
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 5601 Tryon Rd Raleigh, NC 27606

DATE	DESCRIPTION
4/23/24	Addendum 3
4/30/24	Addendum 4



SHEET NAME:
LEVEL 1 SLAB PLAN - AREA E

BID SET SUBMISSION: 2024.04.10

SHEET:
S01.12E

BID SET

THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT FROM THE CENTERLINE OF THE ROADWAY.

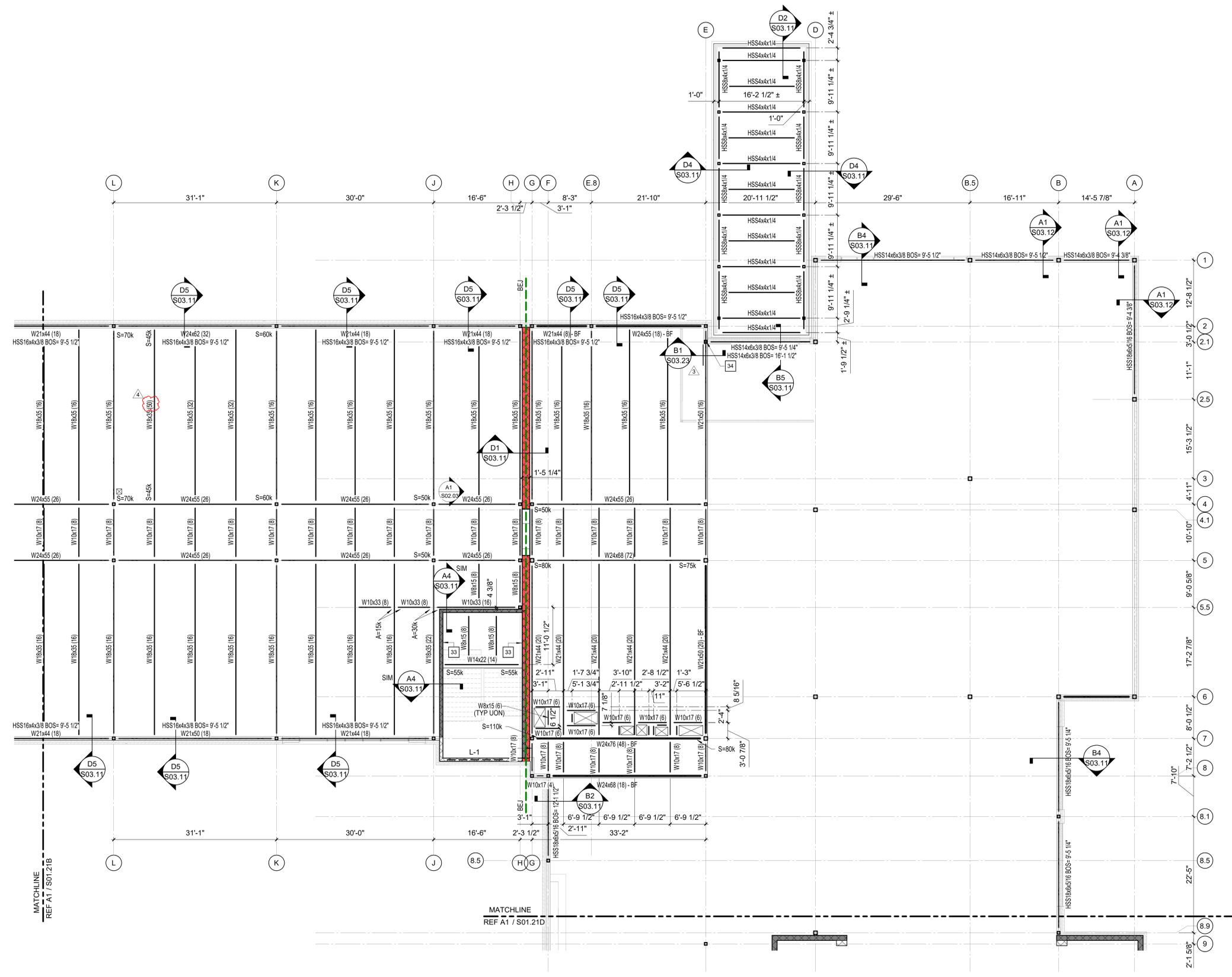
E

D

C

B

A

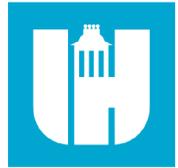


FRAMING PLAN NOTES

- A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- B. TOP OF FINISHED FLOOR ELEVATION SHALL BE AS NOTED ON SLAB PLANS.
- C. COMPOSITE STEEL BEAM FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 8'-6" ON-CENTER).
- D. STEEL ROOF FRAMING SUPPORTING 1 1/2" STEEL ROOF DECK MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 5'-6" ON-CENTER).
- E. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.
- F. PROVIDE BOTTOM CHORD EXTENSIONS AT ALL JOISTS ON COLUMN CENTERLINES.
- G. AT STEEL ROOF FRAMING, BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS SHALL BE STRAIGHT LINES BETWEEN GIVEN ELEVATIONS. INTERPOLATE AS REQUIRED FOR INTERMEDIATE BEARING ELEVATIONS, UNLESS OTHERWISE NOTED.
- H. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.

KEY NOTES

- 33 MASONRY ANCHORAGE - REFERENCE TYPICAL MASONRY ANCHORAGE DETAILS.
- 34 HSS6x6x3/8 HANGER - REFER TO TYPICAL DETAIL.



Wake County Public School System



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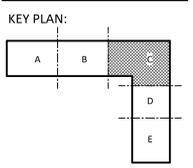


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5601 Tryon Rd Raleigh, NC 27606

LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
1	
3	4/23/24 Addendum 3
4	4/30/24 Addendum 4



SHEET NAME:
LEVEL 2 FRAMING PLAN - AREA C

BID SET SUBMISSION: 2024.04.10

SHEET:
S01.21C

BID SET

PLAN NORTH
A1 LEVEL 2 FRAMING PLAN - AREA C
1/8" = 1'-0"

1 2 3 4 5 6

THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT LONG AND IS NOT TO SCALE

E

D

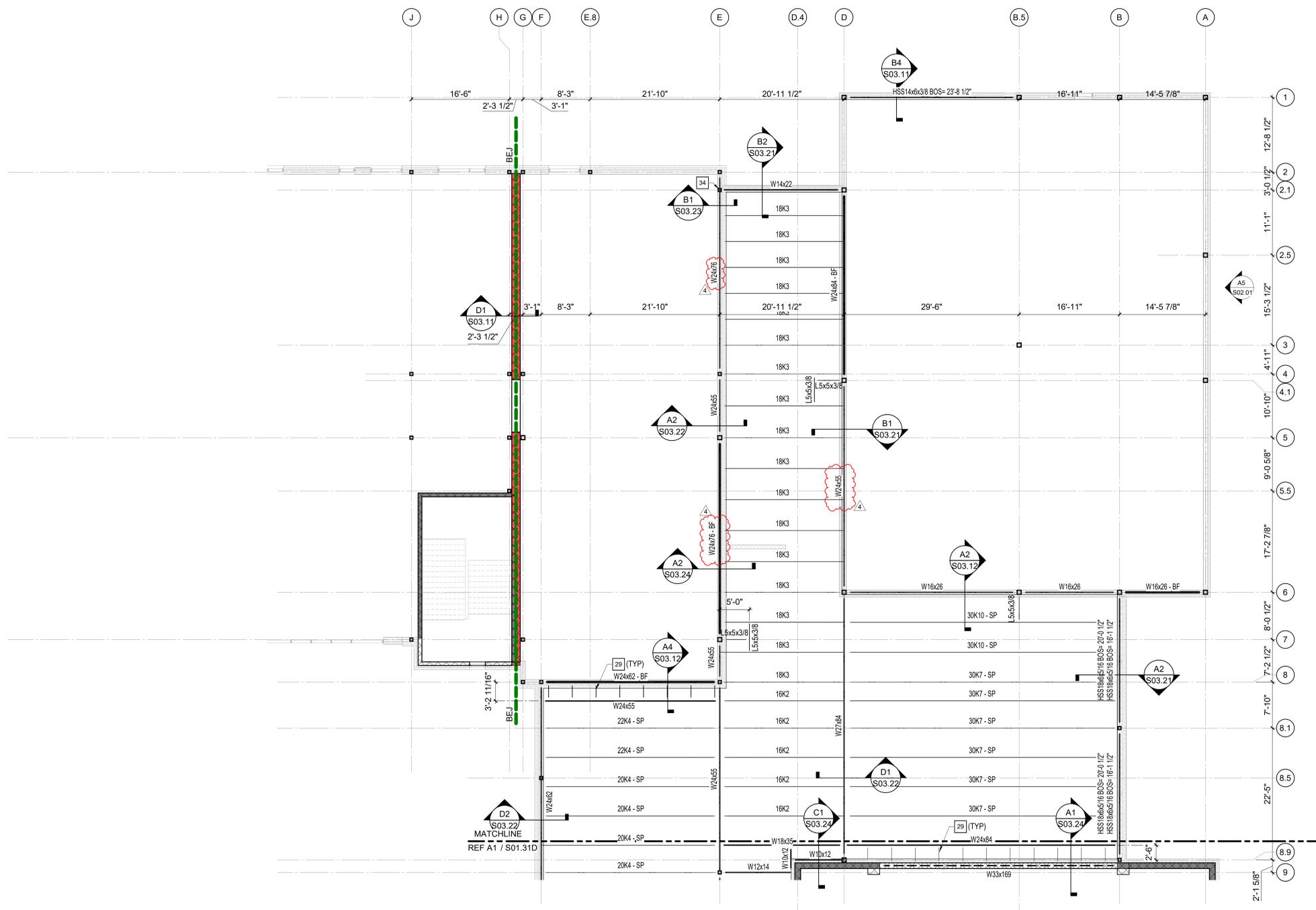
C

B

A

FRAMING PLAN NOTES

- A. REFERENCE FOUNDATION PLAN AND ARCHITECTURAL DRAWINGS FOR DIMENSIONS NOT SHOWN.
- B. TOP OF FINISHED FLOOR ELEVATION SHALL BE AS NOTED ON SLAB PLANS.
- C. COMPOSITE STEEL BEAM FRAMING MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 8'-6" ON-CENTER).
- D. STEEL ROOF FRAMING SUPPORTING 1 1/2" STEEL ROOF DECK MUST BE EQUALLY SPACED BETWEEN POINTS OF KNOWN DIMENSIONS (NOT TO EXCEED 5'-6" ON-CENTER).
- E. CONCRETE ON ELEVATED METAL DECKS MUST BE POURED TO THE THICKNESS INDICATED.
- F. PROVIDE BOTTOM CHORD EXTENSIONS AT ALL JOISTS ON COLUMN CENTERLINES.
- G. AT STEEL ROOF FRAMING, BOTTOM OF DECK ELEVATIONS ARE SHOWN ON PLAN. INTERMEDIATE ELEVATIONS SHALL BE STRAIGHT LINES BETWEEN GIVEN ELEVATIONS. INTERPOLATE AS REQUIRED FOR INTERMEDIATE BEARING ELEVATIONS, UNLESS OTHERWISE NOTED.
- H. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.



THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT FROM THE CENTERLINE OF THE JOIST.

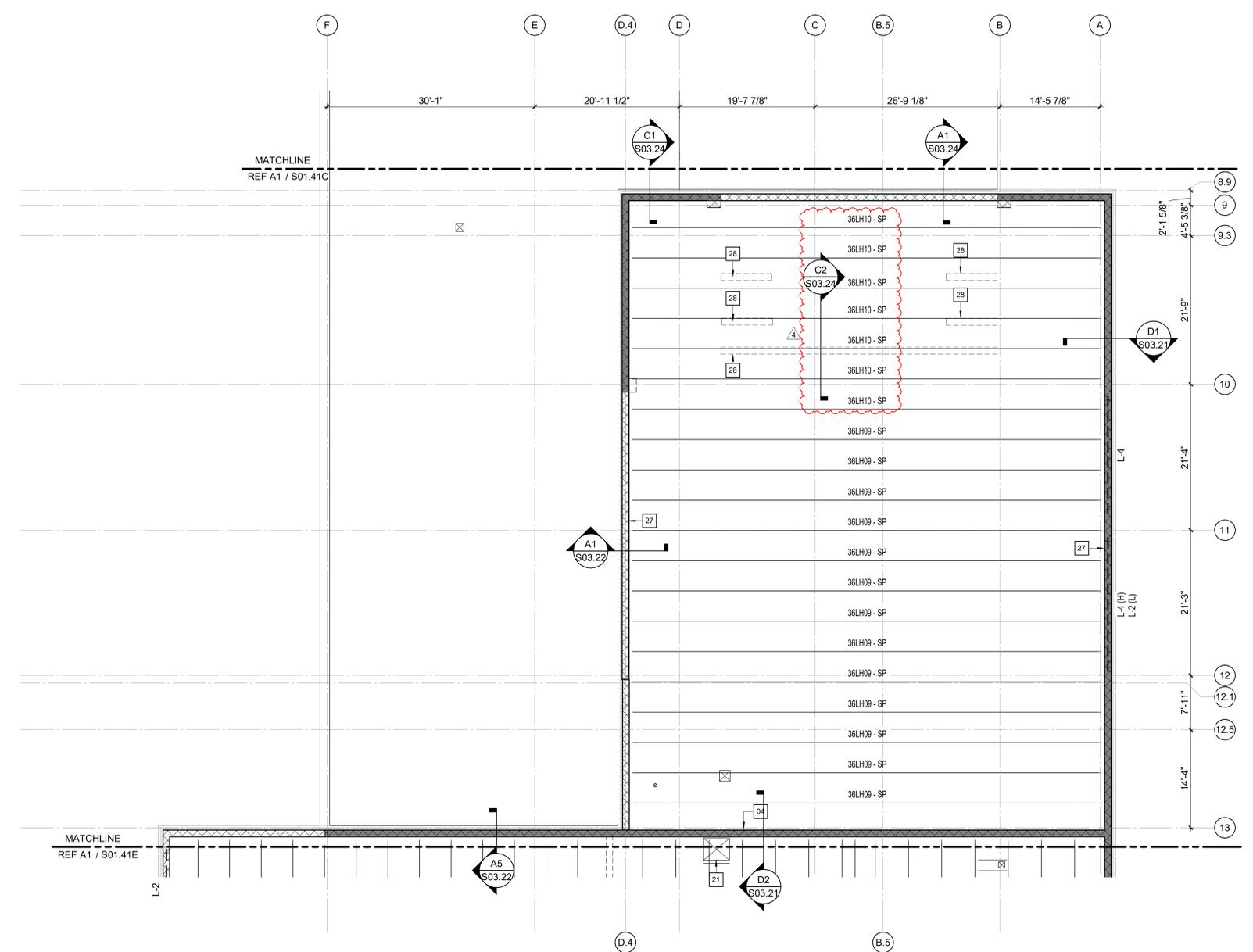
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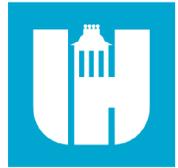
FRAMING PLAN NOTES

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- H. COORDINATE AND VERIFY ALL MEMBER LOCATIONS, DIMENSIONS, WEIGHTS, OPENING SIZES, AND CURB DIMENSIONS FOR ALL MECHANICAL EQUIPMENT WITH THE ACTUAL EQUIPMENT FURNISHED. INCLUDE THIS INFORMATION ON THE JOIST AND STRUCTURAL STEEL SHOP DRAWINGS.

KEY NOTES

- 04 12" CMU WALL WITH (2) #5 AT 16" OC (1 EACH FACE) AND #4 AT 24" OC EACH FACE HORIZONTAL.
- 21 ROOF HATCH.
- 27 WALL-MOUNTED BASKETBALL GOAL - SOLID GROUT AND REINFORCE MASONRY WALL FULL HEIGHT WITH #5 VERTICAL BARS AT 8" ON-CENTER OVER LENGTH OF GOAL ATTACHMENTS. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND ATTACHMENT POINTS.
- 28 DIVIDER CURTAIN - REFERENCE ARCHITECTURAL DRAWINGS. JOIST MANUFACTURER TO DESIGN JOISTS FOR POINT LOADS FROM CURTAIN SUPPORTS.

PLAN NORTH
A1 ROOF FRAMING PLAN - AREA D
 1/8" = 1'-0"



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 TEL. 919.829.2730 FAX. 919.829.2700
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 Corporation No. C-4360



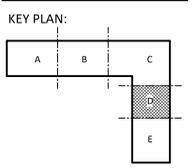
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Swift Creek Elementary
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5601 Tryon Rd Raleigh, NC 27606

LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
4/30/24	Addendum 4



SHEET NAME:
 HIGH ROOF
 FRAMING PLAN -
 AREA D

BID SET SUBMISSION: 2024.04.10

SHEET:
S01.41D

BID SET

THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT ABOVE FINISHED GRADE

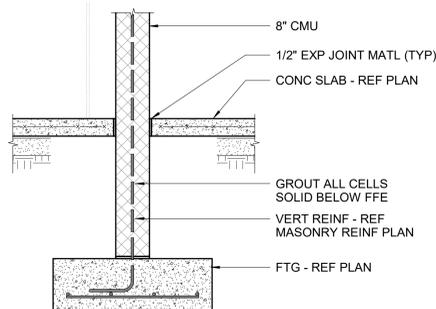
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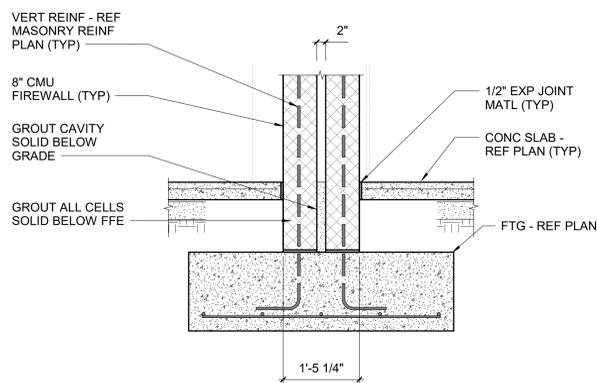
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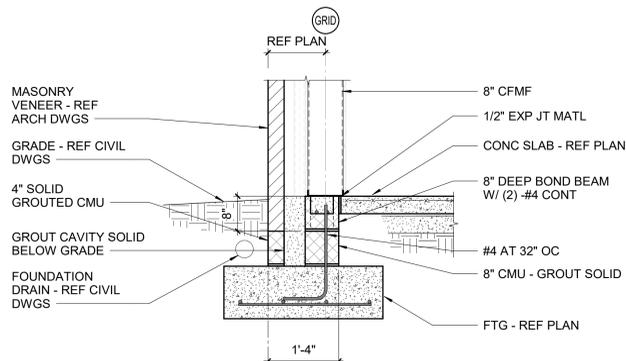
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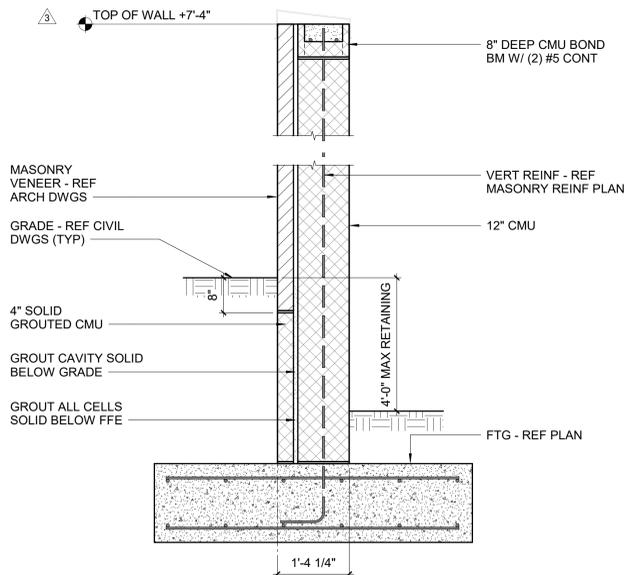
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NTS



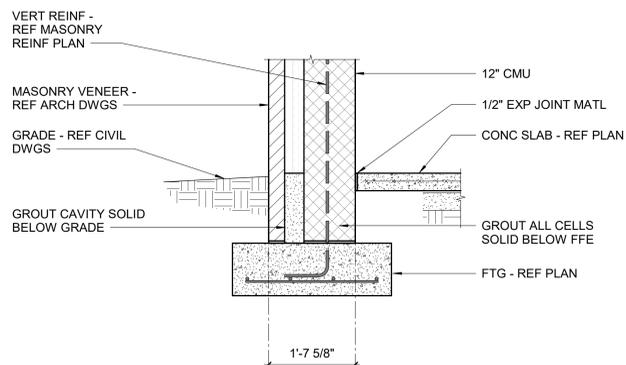
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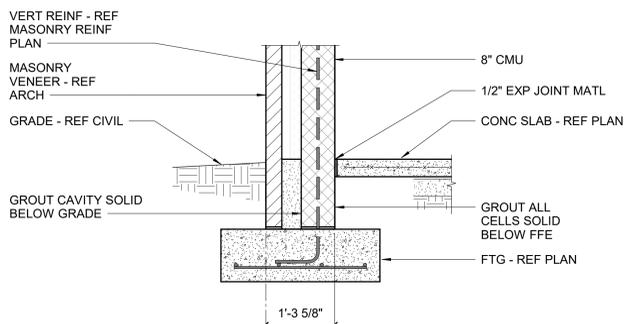
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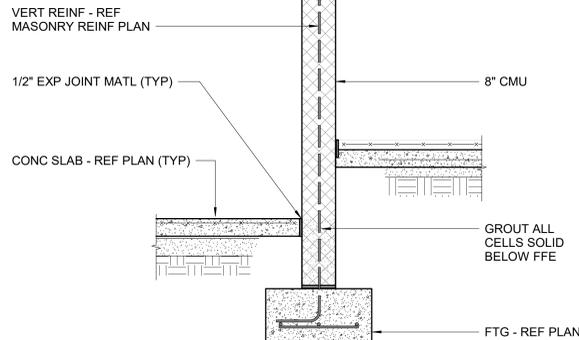
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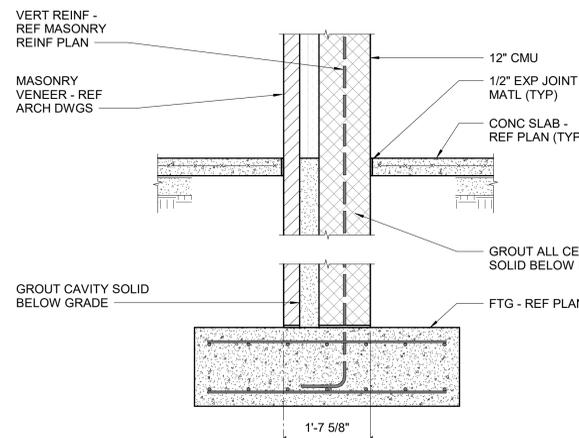
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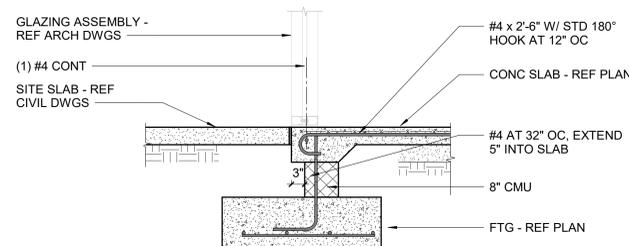
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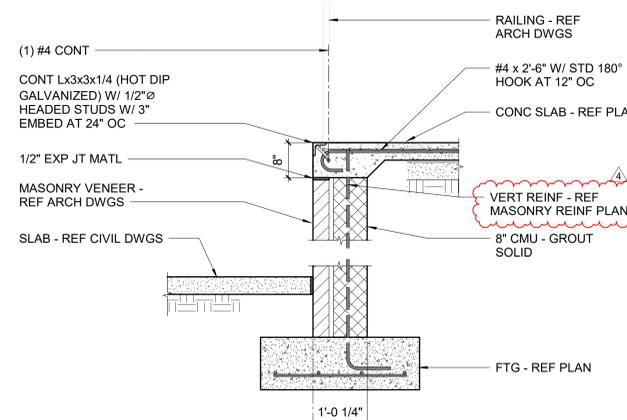
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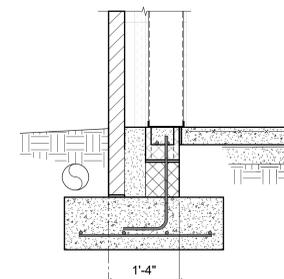
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NTS



A4 SECTION
NTS

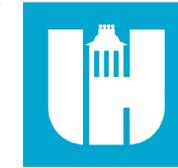


B5 SECTION
NTS



A5 SECTION
NTS

REF SECTION A1 / S03.01 FOR DETAILS NOT NOTED



Wake County Public School System



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RALEIGH, NORTH CAROLINA 27601
TEL. 919.829.2730 FAX. 919.829.2700
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Structural Engineers
301 N West St., Suite 105
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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606

NO.	DATE	DESCRIPTION
3	4/23/24	Addendum 3
4	4/30/24	Addendum 4

SHEET NAME:
SECTIONS

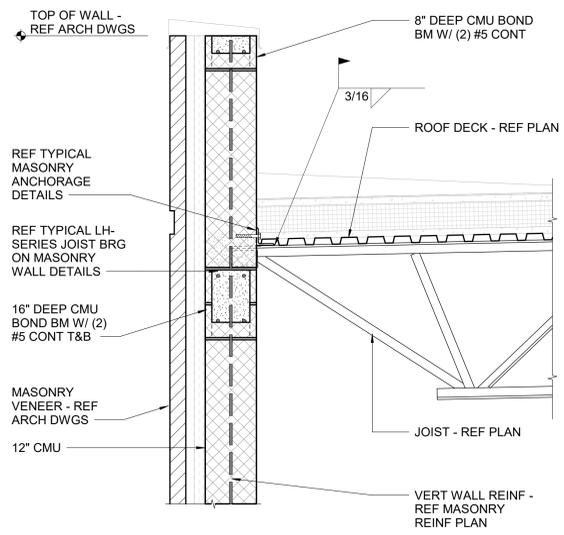
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SHEET: S03.01

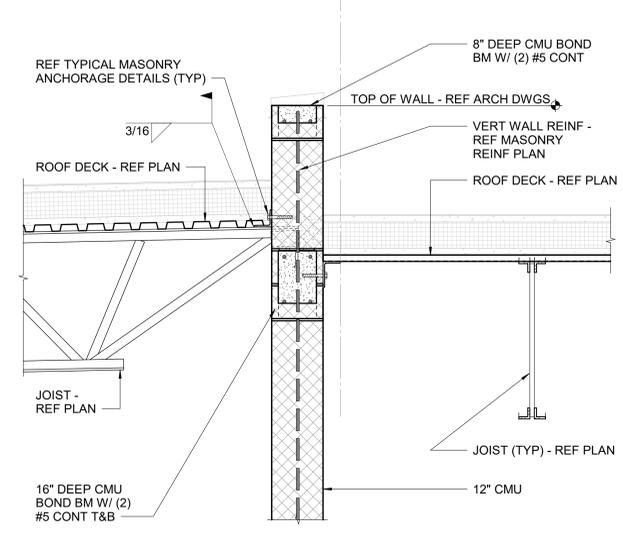
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THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT ABOVE THE FINISH FLOOR

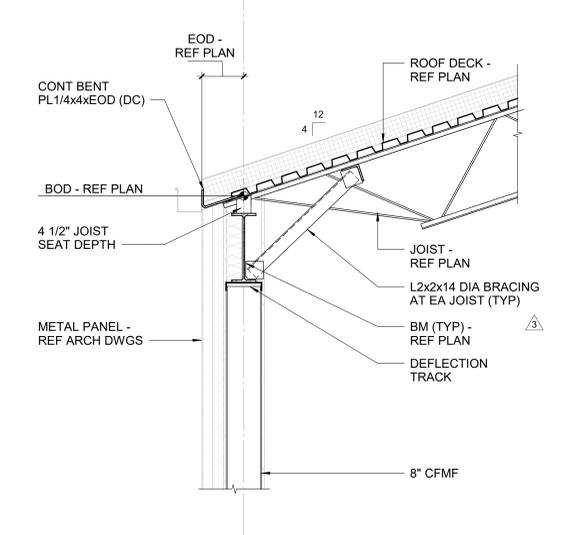
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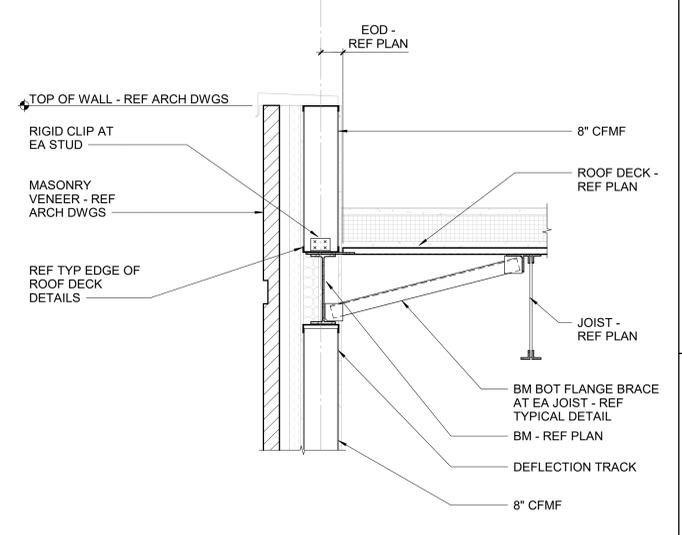
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3/4" = 1'-0"



D2 SECTION
3/4" = 1'-0"

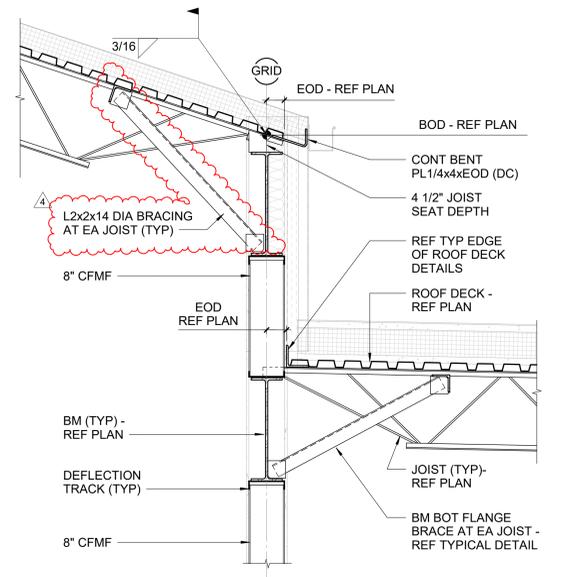


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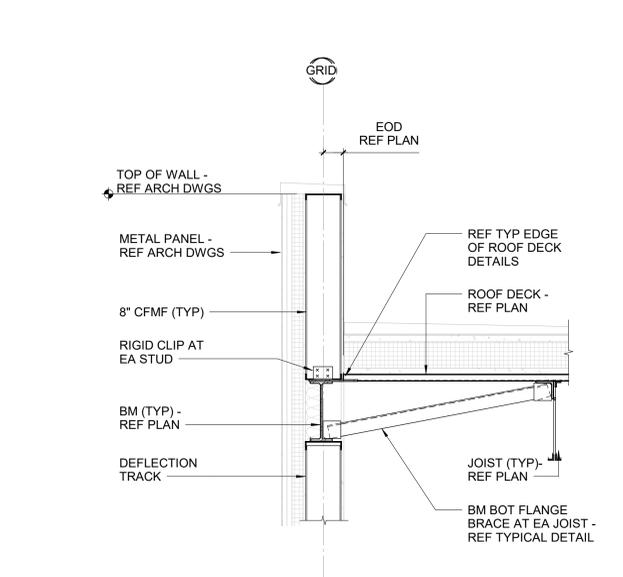


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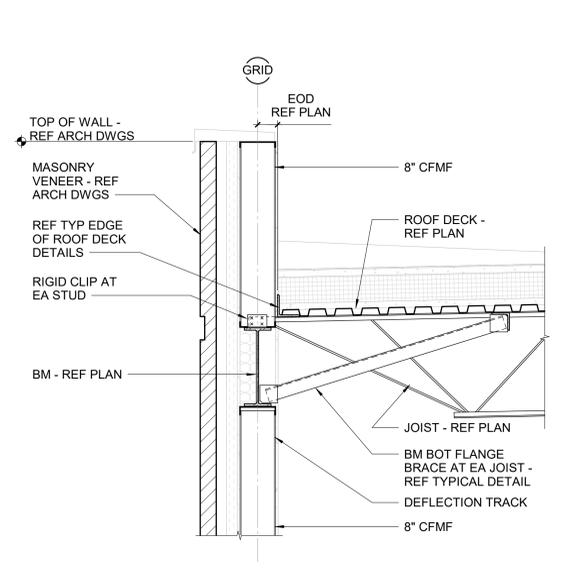
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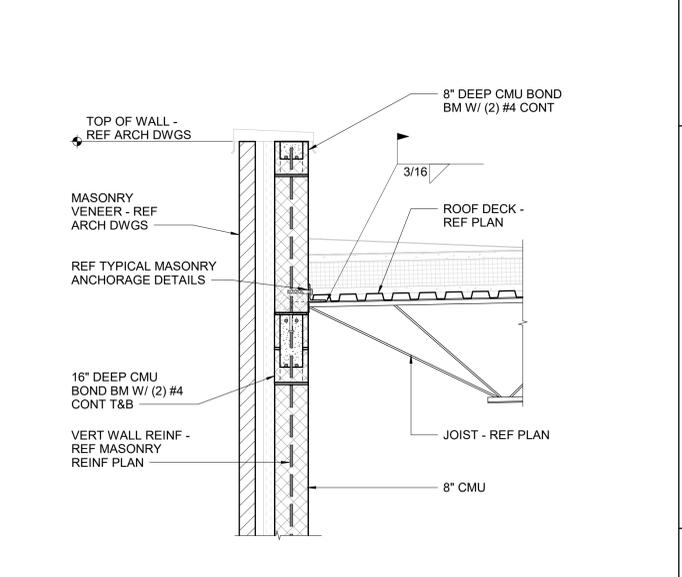
B1 SECTION
3/4" = 1'-0"



B2 SECTION
3/4" = 1'-0"



B4 SECTION
3/4" = 1'-0"

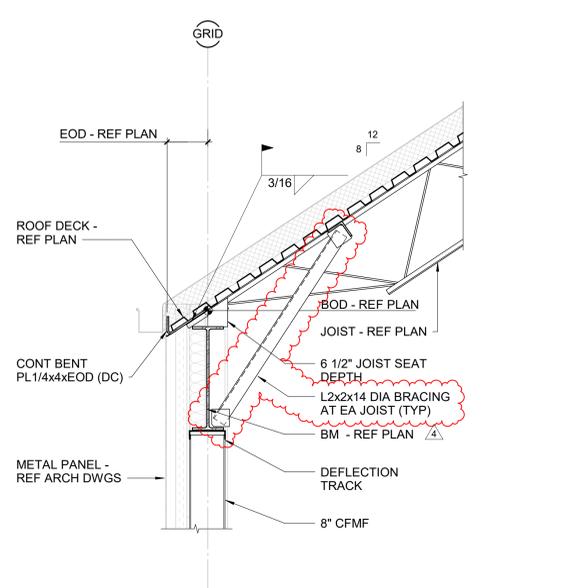


B5 SECTION
3/4" = 1'-0"

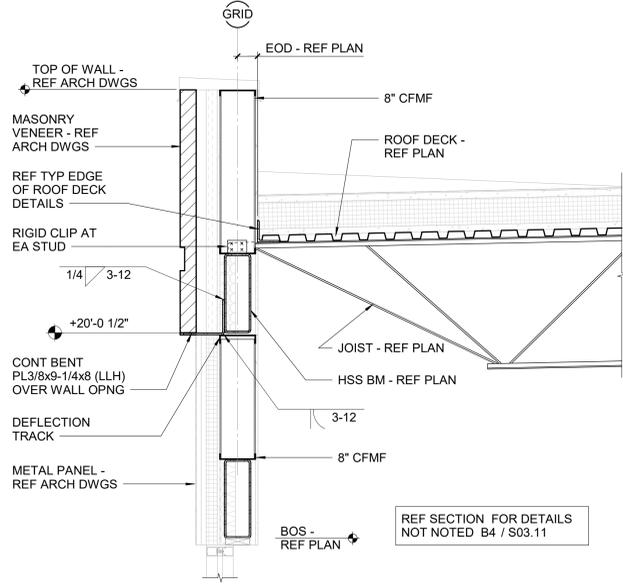
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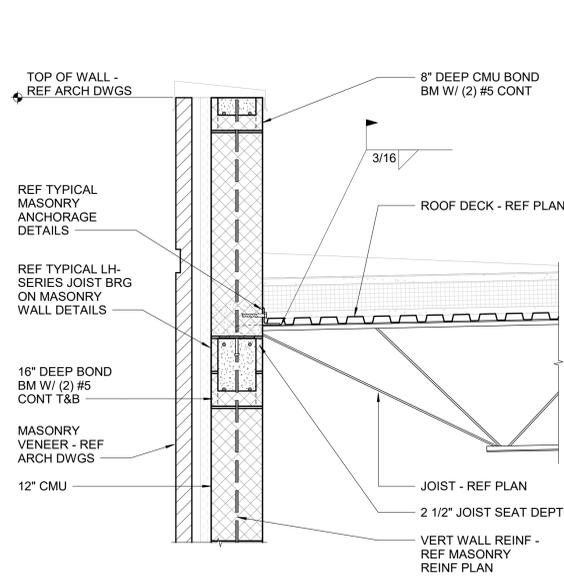
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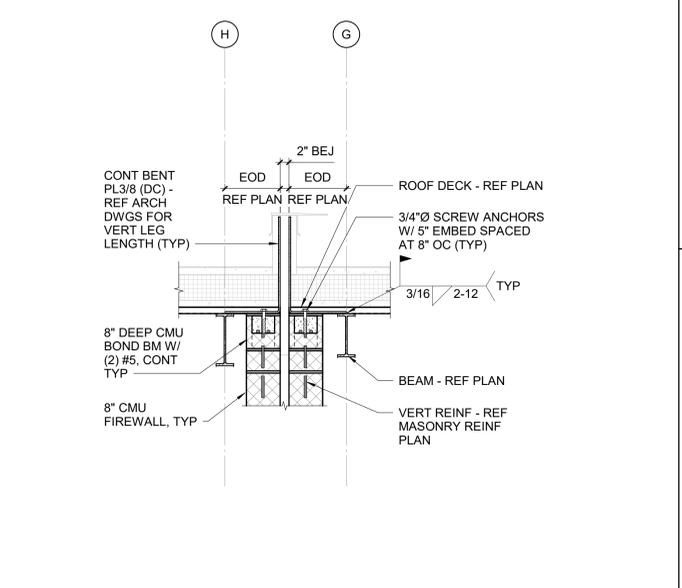
A1 SECTION
3/4" = 1'-0"



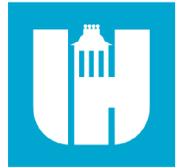
A2 SECTION
3/4" = 1'-0"



A4 SECTION
3/4" = 1'-0"



A5 SECTION
3/4" = 1'-0"



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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
3/4/23/24	Addendum 3
4/30/24	Addendum 4

SHEET NAME:
SECTIONS

BID SET SUBMISSION: 2024.04.10

SHEET: S03.21

BID SET

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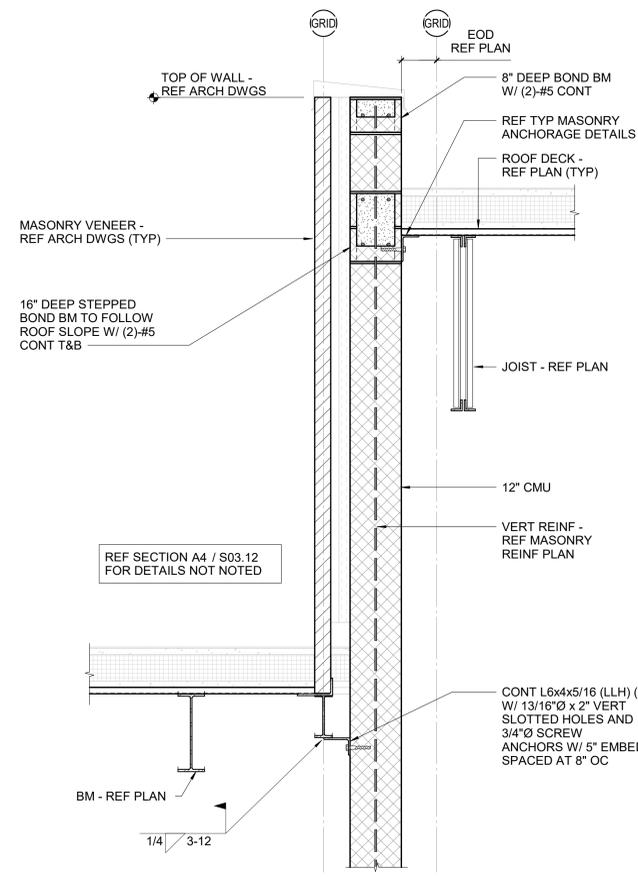
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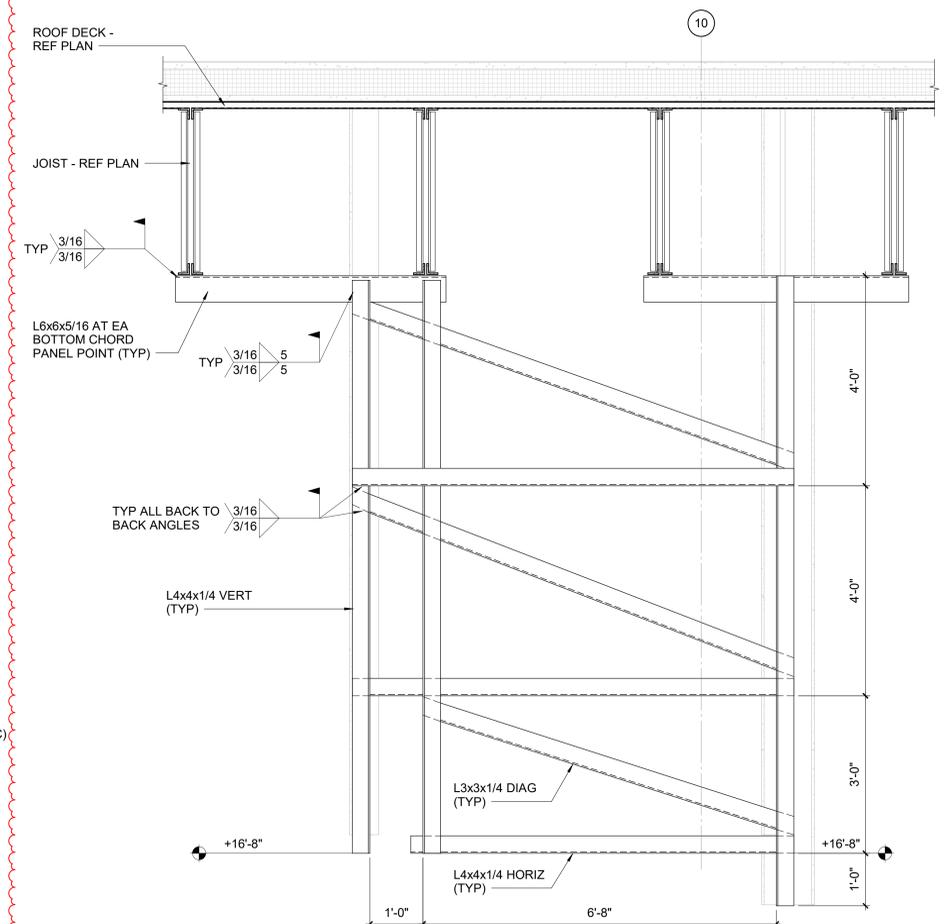
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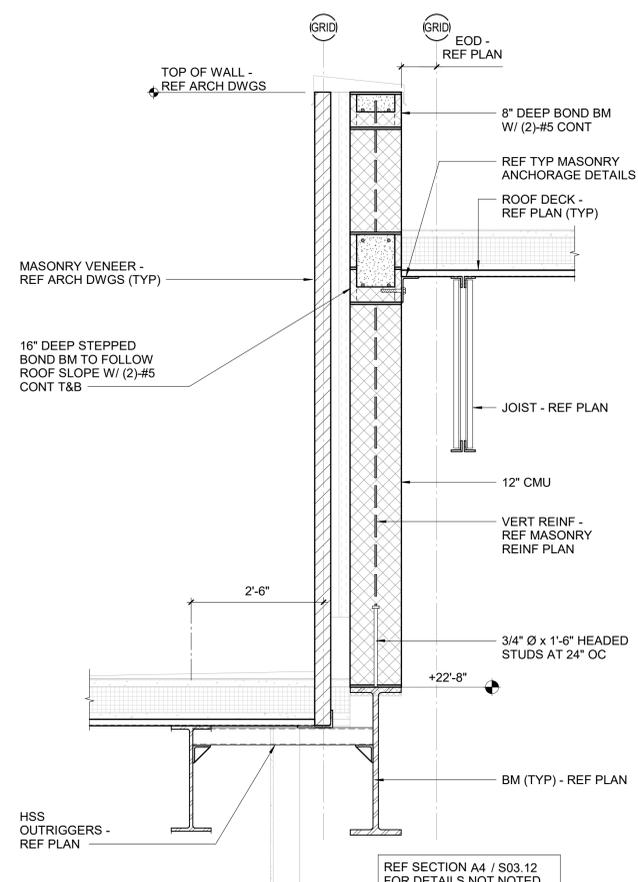
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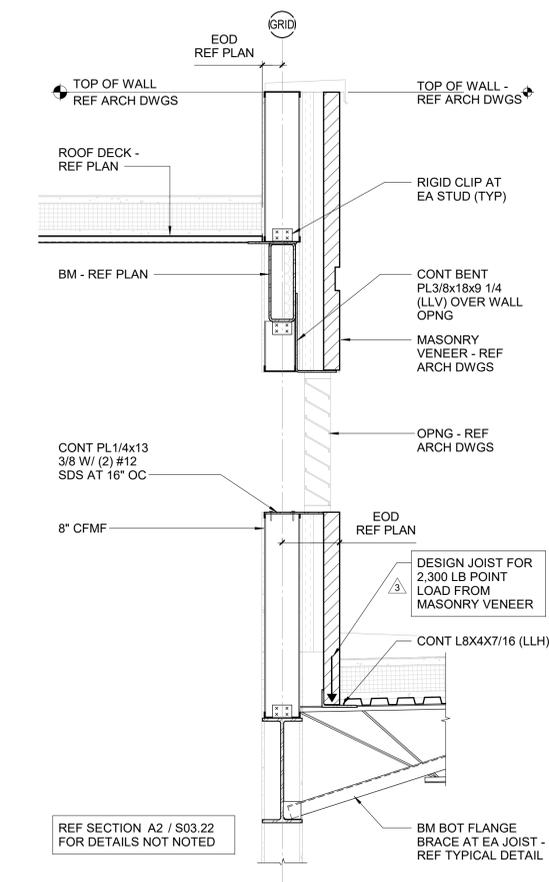
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3/4" = 1'-0"



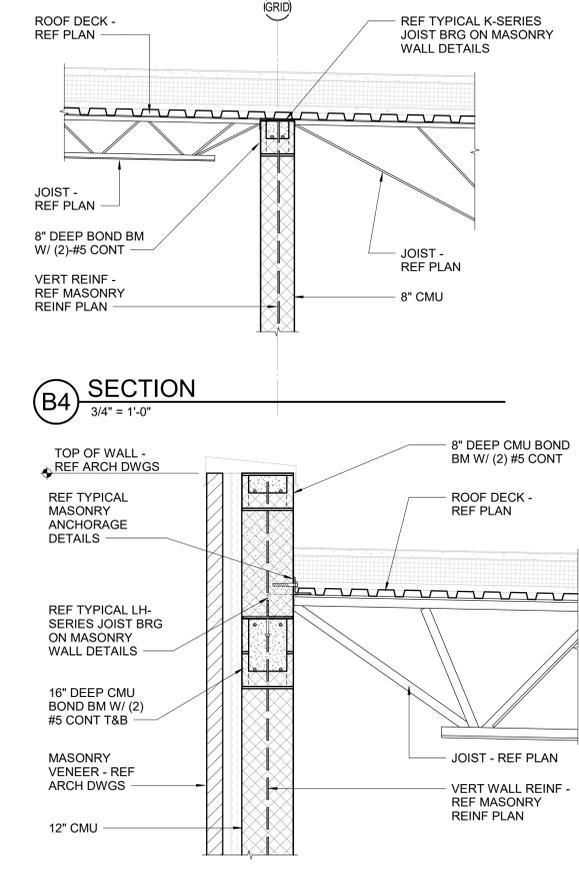
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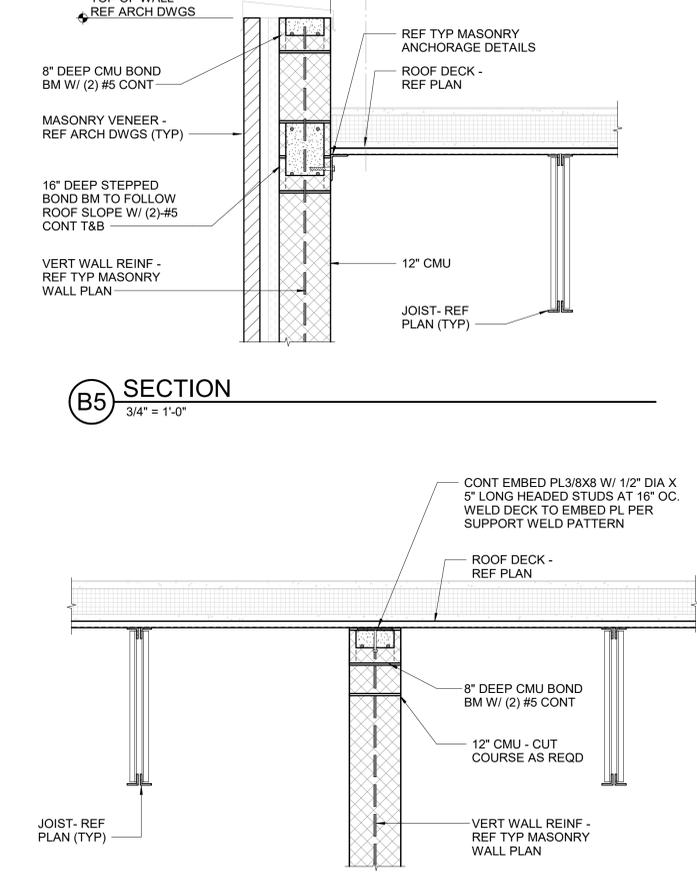
A1 SECTION
3/4" = 1'-0"



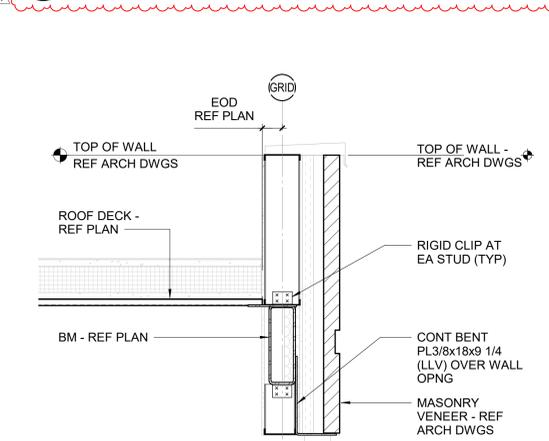
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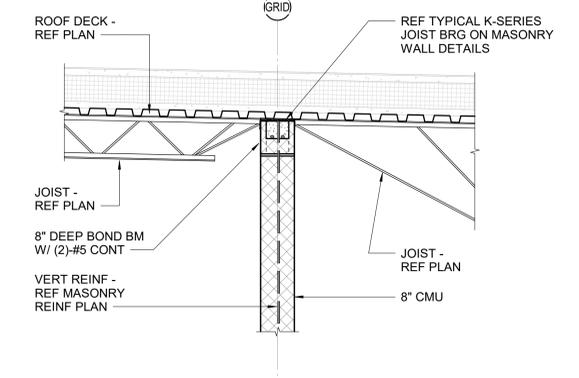
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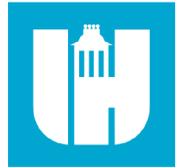
A5 SECTION
3/4" = 1'-0"



B4 SECTION
3/4" = 1'-0"



B5 SECTION
3/4" = 1'-0"



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LSP PROJECT: 8201-207411

DATE	DESCRIPTION
3/4/23/24	Addendum 3
4/30/24	Addendum 4

SHEET NAME:
SECTIONS

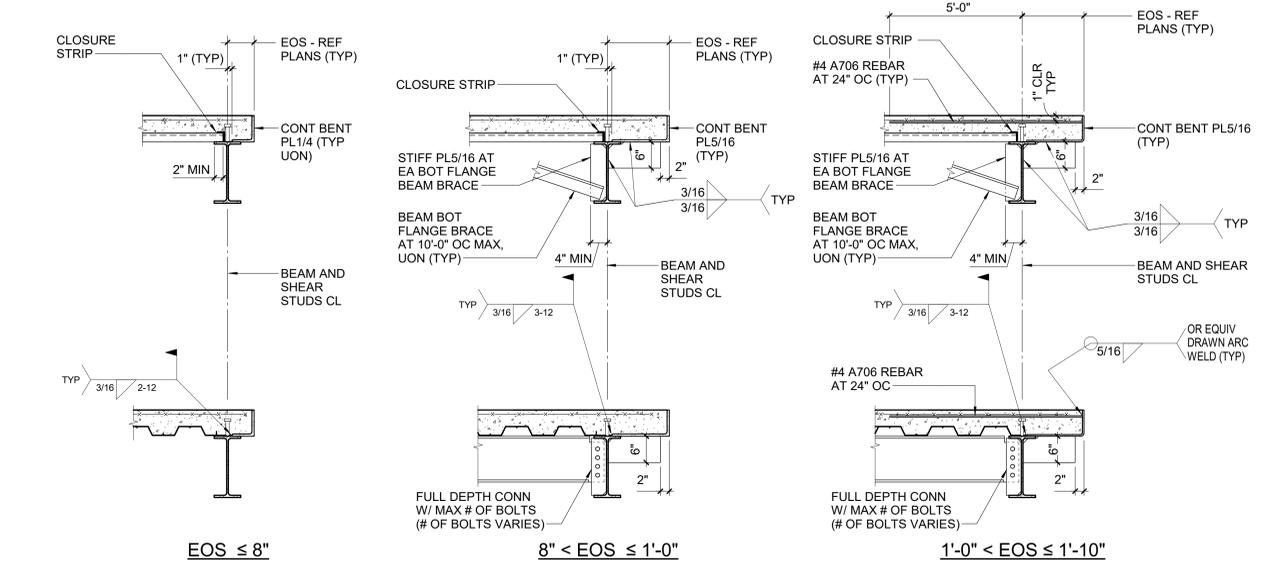
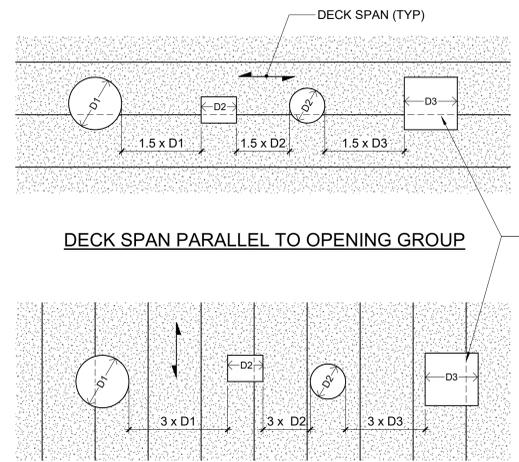
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SHEET: **S03.24**

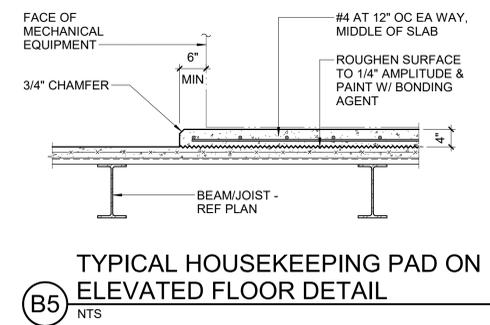
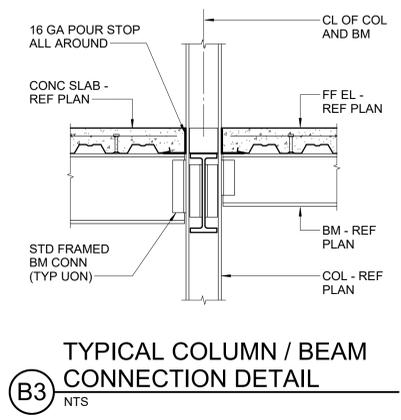
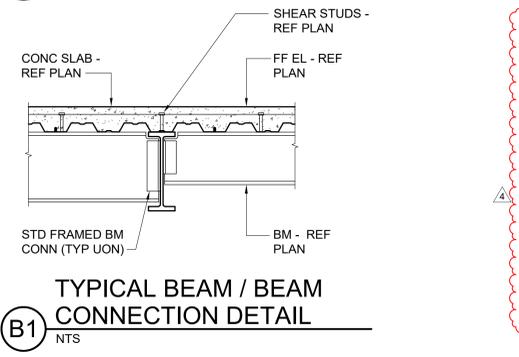
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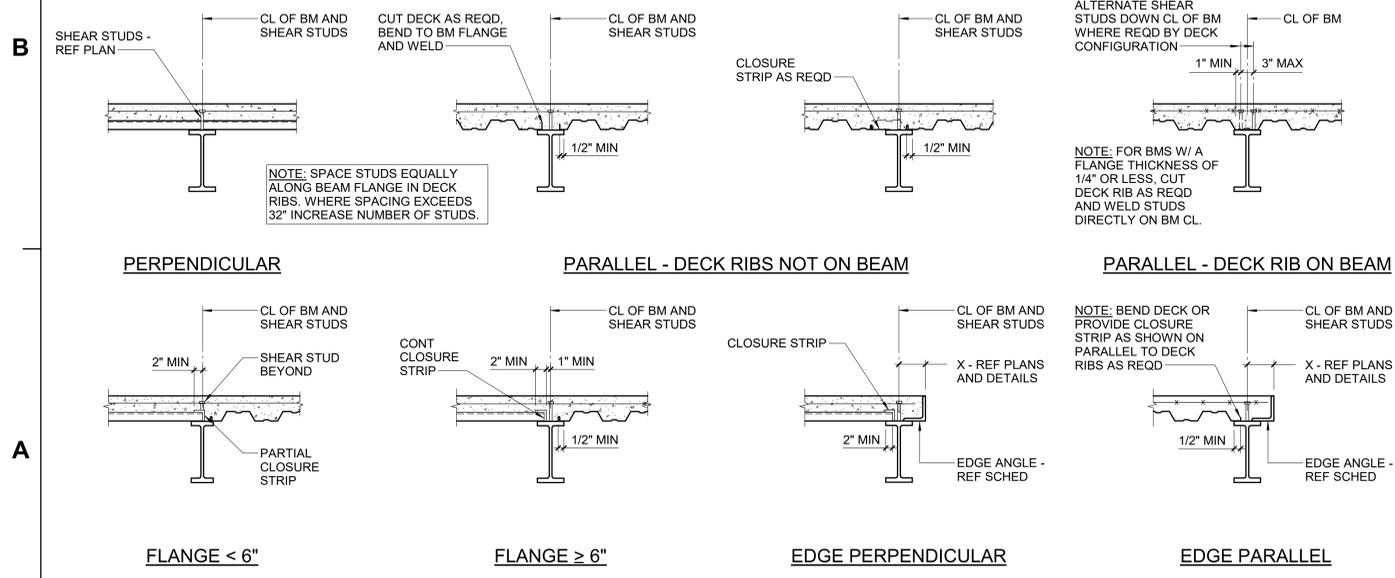
- NOTES:**
- SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
 - PENETRATIONS, LESS THAN OR EQUAL TO 6" IN ANY DIMENSION SHALL BE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT REINFORCING, PROVIDED THE SPACING BETWEEN PENETRATIONS DOES NOT EXCEED THE FOLLOWING, AS DEPICTED BELOW:
 - WHERE DECK SPAN IS PARALLEL TO THE GROUP OF PENETRATIONS: CLEAR SPACING SHALL NOT BE LESS THAN 1.5 TIMES THE WIDTH / DIAMETER OF THE LARGER ADJACENT PENETRATION OR 4", WHICHEVER IS GREATER.
 - WHERE DECK SPAN IS PERPENDICULAR TO THE GROUP OF PENETRATIONS: CLEAR SPACING SHALL NOT BE LESS THAN 3 TIMES THE WIDTH OF THE LARGER ADJACENT PENETRATION, OR 8", WHICHEVER IS GREATER.
 - IF THE SPACING REQUIREMENTS BELOW CANNOT BE MET, THE CONTRACTOR SHALL BE PERMITTED TO REINFORCE THE SLAB PER THE TYPICAL FLOOR SLAB REINFORCING DETAIL AT OPENINGS LARGER THAN 6".
 - BLOCKOUTS OR DRILLED CORES ARE PERMITTED, HOWEVER, FLOOR DECK SHALL REMAIN CONTINUOUS AND NOT BE CUT UNTIL CONCRETE HAS BEEN PLACED AND HAS REACHED 75% OF ITS SPECIFIED DESIGN STRENGTH.



C1 TYPICAL SPACING REQUIREMENTS FOR FLOOR PENETRATIONS 6" WIDE OR LESS



- NOTES:**
- SEE MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION DRAWINGS FOR LOCATIONS AND SIZE OF FLOOR PENETRATIONS NOT SPECIFICALLY DETAILED ON THE STRUCTURAL FRAMING PLANS.
 - PENETRATIONS, GREATER THAN 6", BUT LESS THAN OR EQUAL TO 24" IN ANY DIRECTION SHALL BE PERMITTED IN THE ELEVATED SLAB ON METAL DECK WITHOUT ADDITIONAL STRUCTURAL STEEL FRAMING, PROVIDED THE SLAB IS REINFORCED AS INDICATED BELOW.
 - A MINIMUM OF (1) LOW FLUTE MUST BE PROVIDED BETWEEN PENETRATIONS, WITH MINIMUM SPACING BETWEEN PENETRATIONS OF 1/2 THE LARGER OPENING WIDTH, OR 8", WHICHEVER IS GREATER.

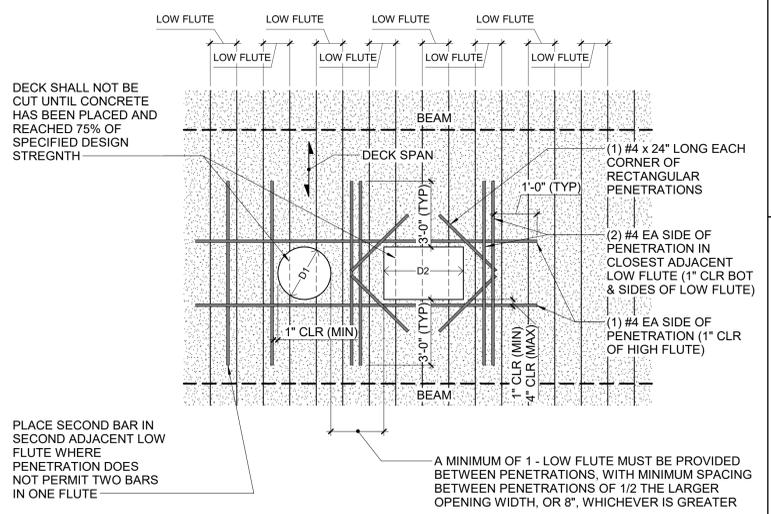


EDGE ANGLE SCHEDULE

X (INCHES)	EDGE ANGLE
X < 4	BENT PL 1/4
4 ≤ X ≤ 6	BENT PL 1/4
6 ≤ X ≤ 11 1/2	BENT PL 1/4
> 6 AT ELEV DOORS	BENT PL 1/4

NOTE: FOR BMS W/ A FLANGE THICKNESS OF 1/4" OR LESS, CUT DECK RIB AS REQD AND WELD STUDS DIRECTLY ON BM CL.

NOTE: FOR EDGE ANGLES NOT OTHERWISE NOTED.



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434 FAYETTEVILLE STREET SUITE 1700
RALEIGH, NORTH CAROLINA 27601
TEL. 919.829.2730 FAX. 919.829.2700
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LSP PROJECT: 9201-207411

DATE	DESCRIPTION
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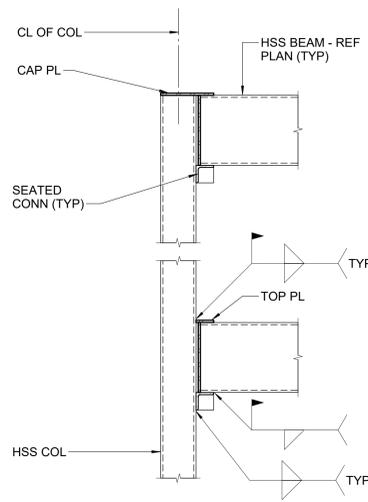
SHEET NAME: TYPICAL DETAILS

BID SET SUBMISSION: 2024.04.10

SHEET: **S05.05**

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E

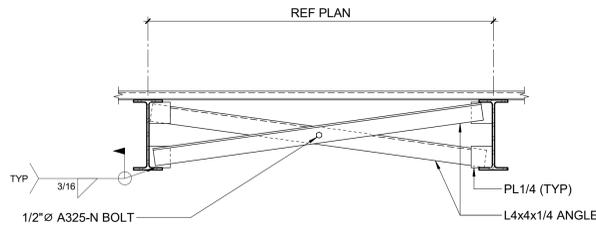


NOTE: CONNECTIONS SHALL BE DESIGNED BY THE FABRICATOR'S LICENSED ENGINEER FOR THE LOADS INDICATED BELOW.
V = 11 KIPS
H = 5 KIPS
T = 11 FT-KIPS

REACTIONS INDICATED ARE FACTORED LRFD LOADS:
V = VERTICAL SHEAR
H = HORIZONTAL SHEAR
T = TORSION

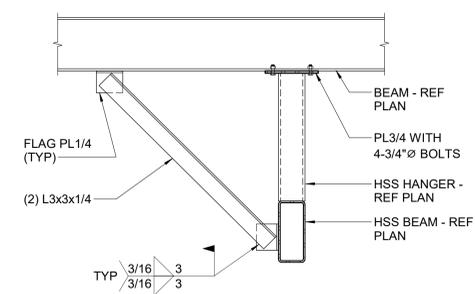
TYPICAL CONCENTRIC NON-EXPOSED CONNECTION

D1 TYPICAL BEAM TO HSS COLUMN CONNECTION DETAILS



E3 TYPICAL HSS HANGER DETAIL

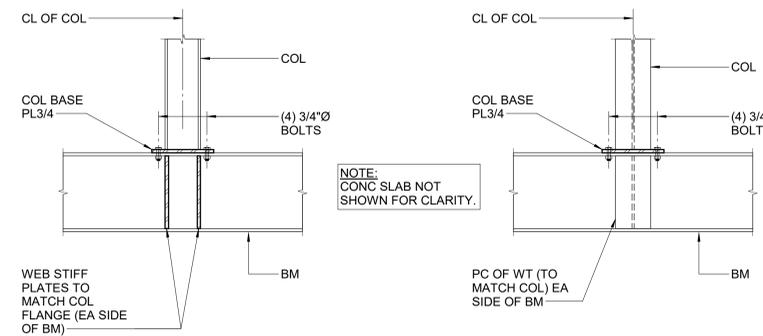
3/4" = 1'-0"



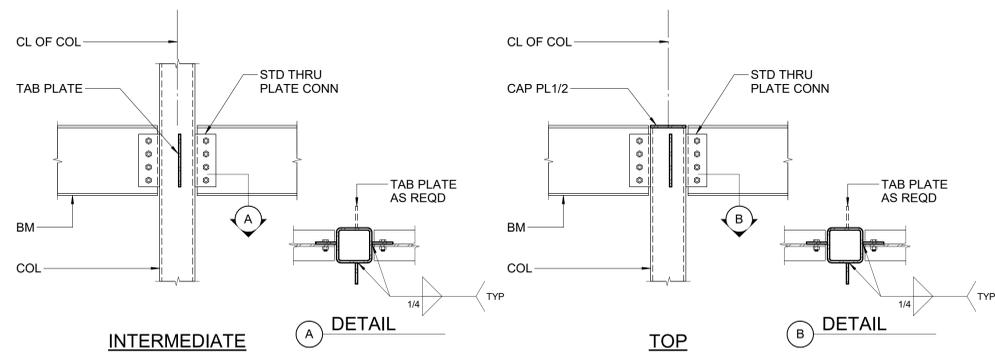
D

C

C1 TYPICAL ROOF BEAM DIAGONAL BRACING

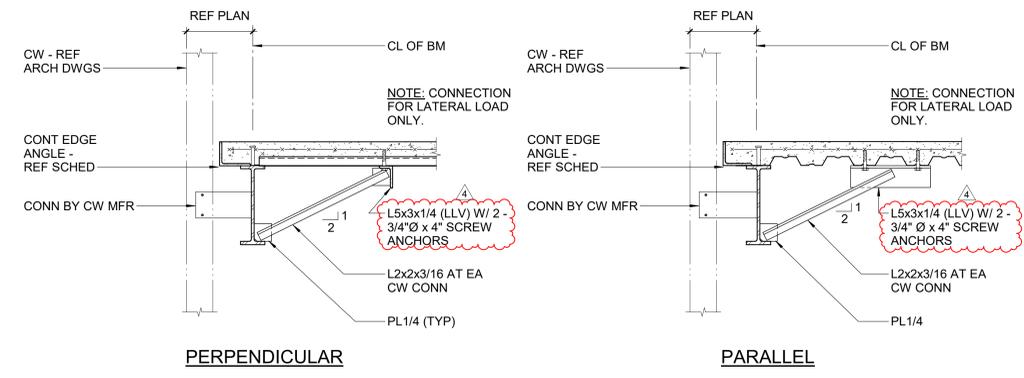


B1 TYPICAL TRANSFER BEAM DETAILS

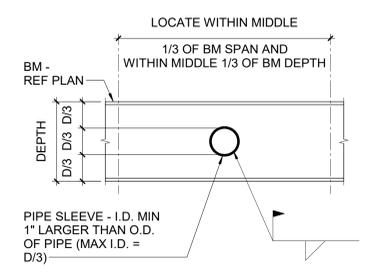


A1 TYPICAL BEAM TO HSS COLUMN CONNECTION DETAILS

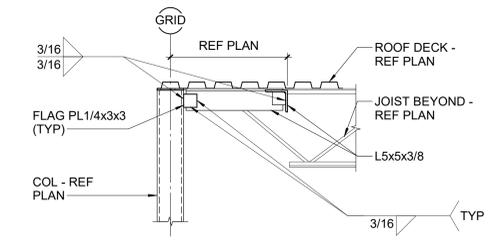
C3 TYPICAL CURTAIN WALL CONNECTION DETAILS



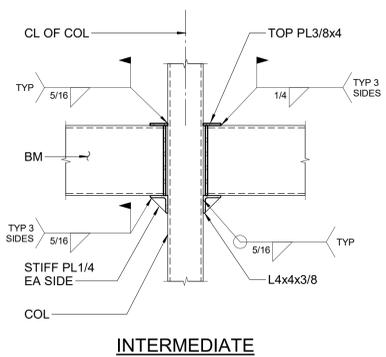
B3 TYPICAL BEAM PENETRATION DETAIL



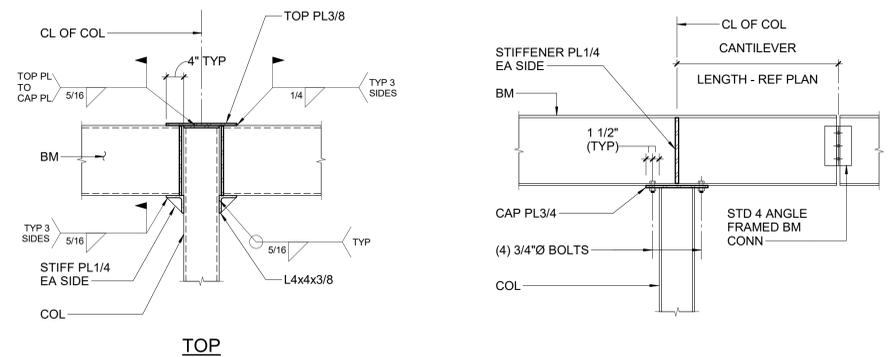
B4 TYPICAL COLUMN TO JOIST BRACE DETAIL



A3 TYPICAL BEAM TO HSS COLUMN CONNECTION DETAILS



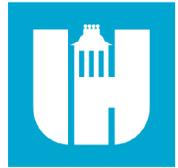
A5 TYPICAL CANTILEVER BEAM DETAIL



B

A

1 2 3 4 5 6



Wake County Public School System



434 FAYETTEVILLE STREET SUITE 1700 RALEIGH, NORTH CAROLINA 27601 TEL. 919.829.2730 FAX. 919.829.2700 WWW.LS3P.COM



Structural Engineers 301 N West St., Suite 105 Raleigh, NC 27603 919.782.1833 - lynchmykins.com LM Project Number: LMXX.XXX Corporation No. C-4360



04/30/2024

Swift Creek Elementary School 5601 Tryon Rd Raleigh, NC 27606

A	DATE	DESCRIPTION
3	4/23/24	Addendum 3
4	4/30/24	Addendum 4

SHEET NAME: TYPICAL DETAILS

BID SET SUBMISSION: 2024.04.10

SHEET: S05.07

BID SET

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RALEIGH, NORTH CAROLINA 27601
TEL. 919.829.2730 FAX. 919.829.2700
WWW.LS3P.COM



Structural Engineers
301 N West St., Suite 105
Raleigh, NC 27603
919.782.1833 - lynchmykins.com
LM Project Number: LMXX.XXX
Corporation No. C-4360



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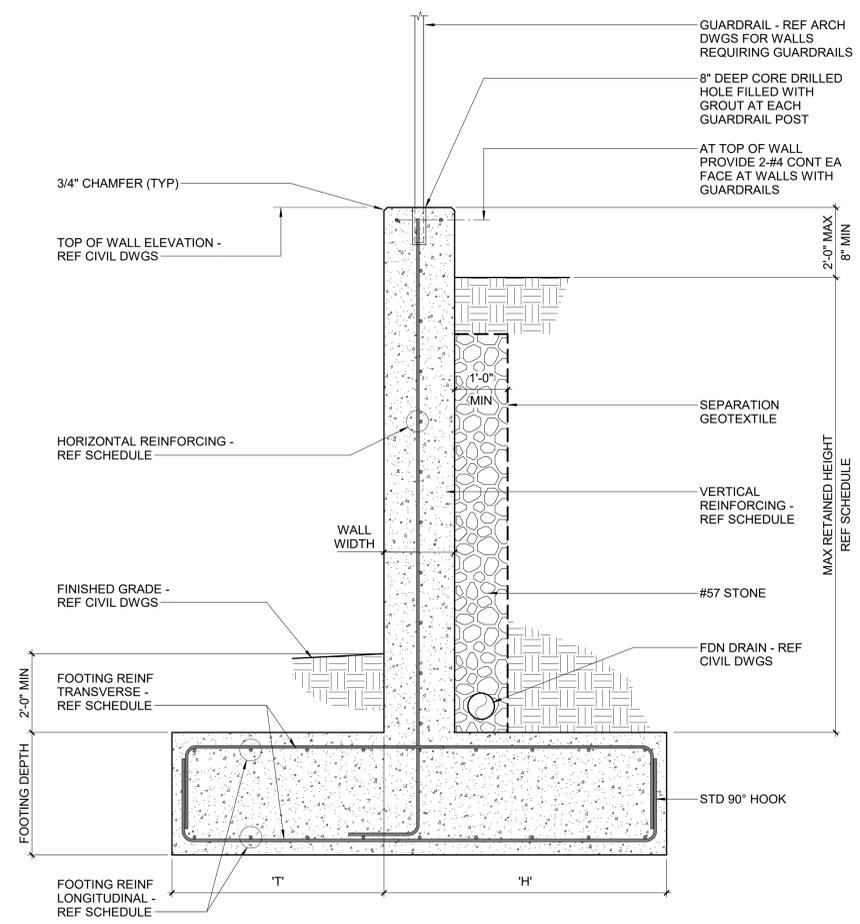
E

D

C

B

A



SECTION

SITE RETAINING WALL SCHEDULE

MAX RETAINED HEIGHT	FOOTING DIMENSIONS			FOOTING TOP REINFORCING		FOOTING BOTTOM REINFORCING		WALL DIMENSIONS		WALL REINFORCING	
	T'	H'	DEPTH	LONGITUDINAL	TRANSVERSE	LONGITUDINAL	TRANSVERSE	WIDTH	VERT	HORIZONTAL	
3'-0"	1'-8"	2'-4"	1'-0"	5- #4	#5 AT 12" OC	5- #4	#5 AT 12" OC	8"	#5 AT 12" OC	#4 AT 12" OC	
6'-0"	2'-8"	3'-4"	1'-6"	7- #4	#5 AT 8" OC	7- #4	#5 AT 8" OC	8"	#5 AT 8" OC	#4 AT 12" OC	

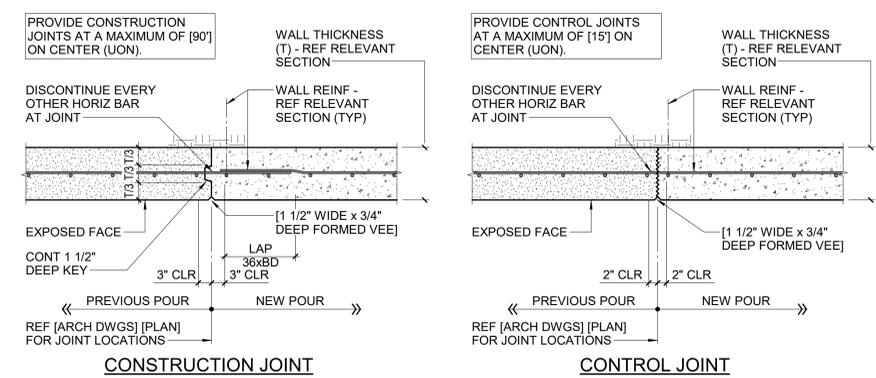
FOUNDATION NOTES:

- FOUNDATIONS HAVE BEEN DESIGNED IN ACCORDANCE WITH THE RECOMMENDATIONS IN THE SUBSURFACE EXPLORATION AND GEOTECHNICAL ENGINEERING REPORT PREPARED BY TERRACON, DATED APRIL 8, 2022 (TERRACON PROJECT NO. 70215172).
- FOUNDATIONS HAVE BEEN DESIGNED FOR THE FOLLOWING SOIL PROPERTIES:
 - A. NET ALLOWABLE BEARING PRESSURE = 2,500 PSF
 - B. ACTIVE EARTH PRESSURE = 50 PCF
 - C. PASSIVE EARTH PRESSURE = 290 PCF
 - D. SOIL UNIT WEIGHT = 120 PCF
 - E. FRICTION COEFFICIENT = 0.30
- PRIOR TO PLACING FOUNDATION CONCRETE, ALL FOUNDATION EXCAVATIONS MUST BE INSPECTED BY THE SPECIAL INSPECTOR TO EXPLORE THE EXTENT OF LOOSE, SOFT, EXPANSIVE, OR OTHERWISE UNSATISFACTORY SOIL MATERIAL AND TO VERIFY DESIGN BEARING PRESSURE. DIRECTION FOR CORRECTIVE ACTION WILL BE PROVIDED BY THE SPECIAL INSPECTOR WHERE UNSATISFACTORY SOILS ARE PRESENT.
- THE CONTRACTOR MUST BE SOLELY RESPONSIBLE FOR CONTROL GROUNDWATER AND SURFACE RUNOFF THROUGHOUT THE CONSTRUCTION PROCESS. INUNDATION AND LONG TERM EXPOSURE OF BEARING SURFACES WHICH RESULT IN DETERIORATION OF BEARING MUST BE PREVENTED.

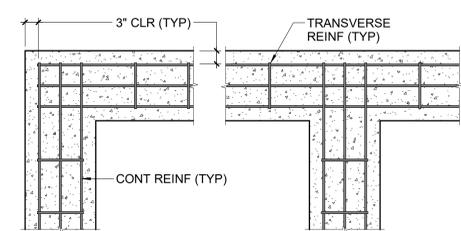
CAST-IN-PLACE CONCRETE NOTES:

- CONCRETE MUST BE IN ACCORDANCE WITH AMERICAN CONCRETE INSTITUTE (ACI) 301 AND 318.
- CONCRETE MUST BE NORMAL WEIGHT AND MUST OBTAIN 28 DAY COMPRESSIVE STRENGTHS AS FOLLOWS:
 - A. FOOTINGS 3,500 PSI
 - B. WALLS 4,500 PSI
- REINFORCING MATERIALS MUST BE AS FOLLOWS:
 - A. REINFORCING BARS - ASTM A615, GRADE 60, DEFORMED.
- ALL REINFORCING STEEL AND EMBEDDED ITEMS SUCH AS REINFORCING STEEL MUST BE ACCURATELY PLACED AND ADEQUATELY TIED AND SUPPORTED BEFORE CONCRETE IS PLACED TO PREVENT DISPLACEMENT BEYOND PERMITTED TOLERANCES.
- CONCRETE COVER TO REINFORCING STEEL MUST CONFORM TO THE MINIMUM COVER RECOMMENDATIONS IN ACI 318, UNLESS THE DRAWINGS SHOW GREATER COVER REQUIREMENTS.
- LAP CONTINUOUS REINFORCING STEEL 57 X BAR DIAMETER, TYPICAL UNLESS OTHERWISE NOTED.

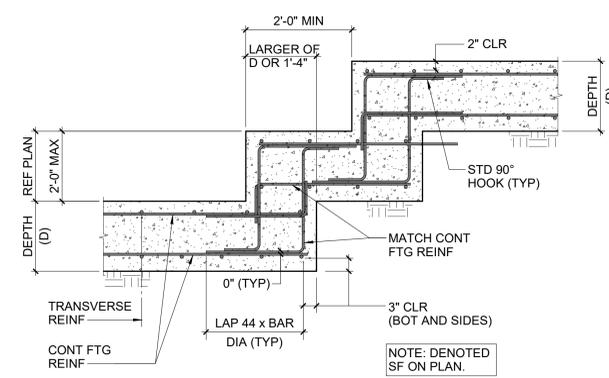
A1 TYPICAL RETAINING WALL SECTION AND SCHEDULE
3/4" = 1'-0"



C4 TYPICAL CONCRETE WALL VERTICAL JOINT DETAILS
3/4" = 1'-0"



B4 TYPICAL WALL FOOTING CORNER & INTERSECTION DETAILS
3/4" = 1'-0"



A4 TYPICAL STEPPED WALL FOOTING DETAIL
3/4" = 1'-0"

Swift Creek Elementary
School
5601 Tryon Rd
Raleigh, NC 27606
LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
4/30/24	Addendum 4

SHEET NAME:
RETAINING WALL
DETAILS

BID SET SUBMISSION: 04/26/24

SHEET:
S07.01

1

2

3

4

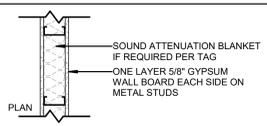
5

6

BID SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH EQUAL TO THE FOLLOWING LINE SIZE

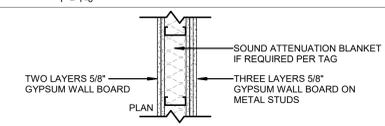
E



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL
3A	3-5/8"	4 7/8"				D6 / A00.20
3AD	3-5/8"	4 7/8"				A6 / A00.20
6A	6"	7 1/4"				D6 / A00.20
6AD	6"	7 1/4"				A6 / A00.20
6ADS	6"	7 1/4"				B6 / A00.20
6A1D	6"	7 1/4"	1	U419		A5 / A00.20
8A	8"	9 1/4"				D6 / A00.20
8AD	8"	9 1/4"				A6 / A00.20
8ADS	8"	9 1/4"				B6 / A00.20

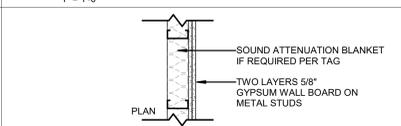
D

B METAL STUD - ONE/TWO LAYERS
1" = 1'-0"



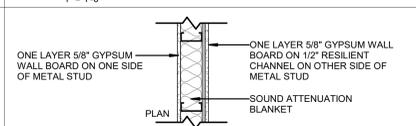
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

F METAL STUD FURRED - ONE LAYER
1" = 1'-0"



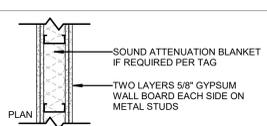
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL
1F	1-5/8"	2 1/4"				D6 / A00.20
2F	2-1/2"	3 1/8"				D6 / A00.20
2FD	2-1/2"	3 1/8"				A6 / A00.20
3F	3-5/8"	4 1/4"				D6 / A00.20
3F	3-5/8"	4 1/4"				D6 / A00.20
3FD	3-5/8"	4 1/4"				A6 / A00.20
3FDS	3-5/8"	4 1/4"				B6 / A00.20
6F	6"	6 5/8"				D6 / A00.20
6F	6"	6 5/8"				D6 / A00.20
6FD	6"	6 5/8"				A6 / A00.20
6FDS	6"	6 5/8"				B6 / A00.20
8F	8"	8 5/8"				D6 / A00.20

S METAL STUD SHAFT - FOUR LAYERS
1" = 1'-0"



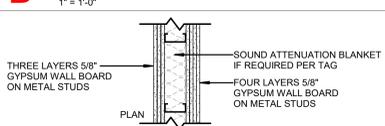
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

A METAL STUD - ONE LAYER
1" = 1'-0"



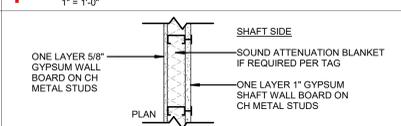
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL
6AZDS	6"	8 1/2"				B6 / A00.20

B METAL STUD - TWO/THREE LAYERS
1" = 1'-0"



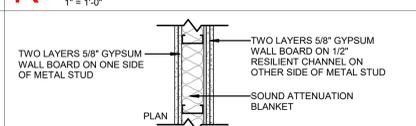
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

F METAL STUD FURRED - TWO LAYERS
1" = 1'-0"



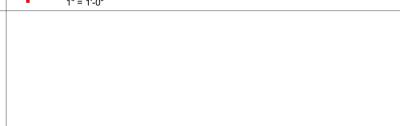
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

R METAL STUD RESILIENT - ONE LAYER
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

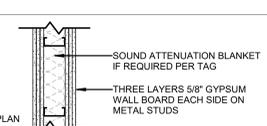
T CAST-IN-PLACE CONCRETE
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

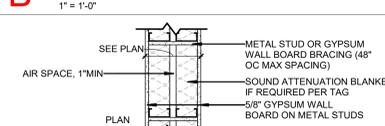
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A METAL STUD - TWO LAYERS
1" = 1'-0"



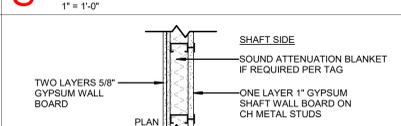
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

B METAL STUD - THREE/FOUR LAYERS
1" = 1'-0"



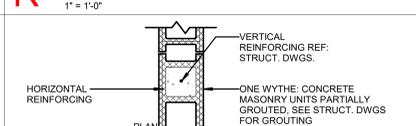
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL
3CDS	3-5/8"	9 1/4"		U493	60	B6 / A00.20

S METAL STUD SHAFT - ONE LAYER
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

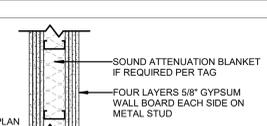
R METAL STUD RESILIENT - TWO LAYERS
1" = 1'-0"



TAG	BLOCK SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL
8M	7-5/8"	7 5/8"				C6 / A00.20
8MD	7-5/8"	7 5/8"				C4 / A00.20
8M1D	7-5/8"	7 5/8"	1	722.3.2		C4 / A00.20
8M2	7-5/8"	7 5/8"	2	722.3.2		C4 / A00.20
8M2D	7-5/8"	7 5/8"	2	722.3.2		C4 / A00.20
12M	11-5/8"	11 5/8"				C6 / A00.20
12MD	11-5/8"	11 5/8"				C6 / A00.20

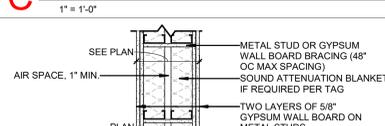
B

A METAL STUD - THREE LAYERS
1" = 1'-0"



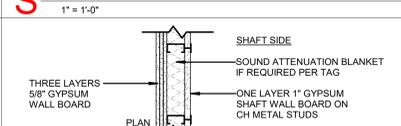
TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

C METAL STUD CHASE - ONE LAYER
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL
3CDS	3-5/8"	9 1/4"		U493	60	B6 / A00.20

S METAL STUD SHAFT - TWO LAYERS
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

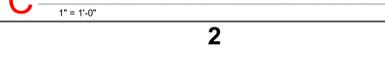
A

A METAL STUD - FOUR LAYERS
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

C METAL STUD CHASE - TWO LAYERS
1" = 1'-0"



TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

S METAL STUD SHAFT - THREE LAYERS
1" = 1'-0"

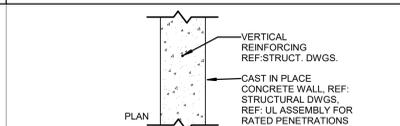


TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

M CONCRETE MASONRY UNIT (CMU)
1" = 1'-0"

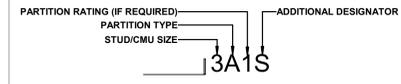


TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL

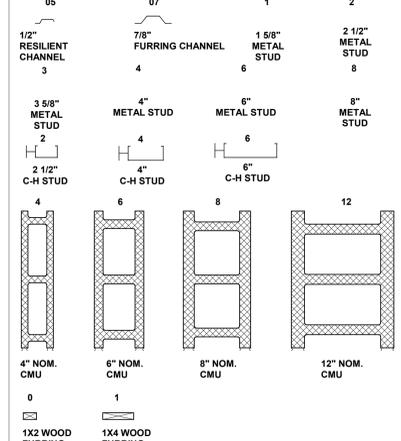


TAG	STUD SIZE	OVERALL THICK	RATING	UL ASSEMBLY	STC	HEAD DETAIL
8T	8"	8"				
8T	8"	8"				
17T2	17"	17"	2	722.2.1.1		

PARTITION TAG KEY



PARTITION MATERIAL & SIZE



PARTITION TYPES LEGEND

- A - METAL STUD BALANCED WALL
- B - METAL STUD UNBALANCED WALL
- C - METAL STUD CHASE WALL
- D - METAL STUD SECURE WALL
- E - METAL STUD SECURE RESILIENT WALL
- F - METAL STUD FURRED WALL
- S - METAL STUD SHAFT WALL
- R - METAL STUD RESILIENT SOUND WALL
- M - CONCRETE MASONRY UNIT WALL
- T - CONCRETE WALL
- Z - TWO LAYERS OF GWB ON EACH SIDE FOR SOUND, NON - RATED

PARTITION FIRE RATING

- 30 - 30 MINUTES RATED FIRE PARTITION
- 1 - 1HR RATED FIRE BARRIER, UNLESS W/ DESIGNATOR "C,K,P"
- 2 - 2HR RATED FIRE BARRIER, UNLESS W/ DESIGNATOR "C,W"
- 3 - 3HR RATED FIRE WALL, UNLESS W/ DESIGNATOR "B"
- 4 - 4HR RATED FIRE WALL, UNLESS W/ DESIGNATOR "B"
- 5 - NOT RATED, SMOKE PARTITION

ADDITIONAL DESIGNATORS

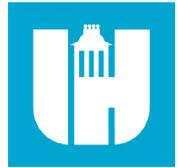
- B - FIRE BARRIER
- C - FIRE/SMOKE BARRIER
- W - FIRE WALL
- P - FIRE PARTITION
- K - SMOKE BARRIER
- D - NON-RATED EXTEND TO DECK ABOVE
- J - IMPACT RESISTANT GWB PARTITION
- S - SOUND ATTENUATION BLANKET IN STUD WALL OR ACOUSTIC FILL IN CMU WALL, PARTITION SHALL EXTEND TO ADJACENT WALLS AND STRUCTURE ABOVE, PROVIDE ACOUSTICAL SEALANT AT BOTTOM, TOP AND SIDES
- G - FULLY GROUTED CMU
- H - HALF WALL OR PARTIAL HEIGHT WALL

PARTITION NOTES

- ALL NON-DESIGNATED PARTITIONS SHALL BE ²⁴⁰NON-RATED PARTITIONS, EXCEPT THOSE WITH "D" OR "S" DESIGNATOR, GWB SHALL EXTEND 6" AND CMU SHALL EXTEND ONE COURSE ABOVE THE CEILING U.N.O.
- NON-RATED SMOKE PARTITIONS SHALL EXTEND TO THE STRUCTURE ABOVE.
- FIRE RATED PARTITIONS SHALL EXTEND TO THE STRUCTURE ABOVE, SEE UL DETAILS FOR ADDITIONAL REQUIREMENTS
- TYPE "D,E,R" PARTITIONS SHALL EXTEND TO ADJACENT WALLS AND STRUCTURE ABOVE, PROVIDE ACOUSTICAL SEALANT AT BOTTOM, TOP, AND SIDES
- AT WET AREAS, PROVIDE MOISTURE RESISTANT GWB OR MOLD & MOISTURE RESISTANT GWB AT NON-RATED PARTITIONS. PROVIDE FIRE RATED MOISTURE RESISTANT GWB OR FIRE RATED MOLD & MOISTURE RESISTANT GWB AT RATED PARTITIONS.
- ON PARTITIONS RECEIVING WALL TILE (REFER TO FINISH SCHEDULE) PROVIDE CEMENTITIOUS BACKER BOARD BEHIND PORTIONS OF PARTITION RECEIVING TILE ONLY.
- PROVIDE BULLNOSE AT ALL INTERIOR CMU OUTSIDE CORNERS, INCLUDING ALL DOOR, STOREFRONT AND WINDOW OPENINGS, AS WELL AS ALL PILASTERS AND COLUMNS. BEGIN BULLNOSE AT 8" ABOVE FLOOR AND WINDOW SILLS AND END BULLNOSE 1

PARTITION TAG EXAMPLES

- 3A 3 5/8" METAL STUD, NON-RATED, GWB 6" ABOVE CLG
- 3AD 3 5/8" METAL STUD, NON-RATED, EXTEND TO DECK ABOVE
- 3AK 3 5/8" METAL STUD, 1 HOUR RATED SMOKE BARRIER
- 3A1S 3 5/8" METAL STUD, 1 HOUR RATED FIRE BARRIER W/ SOUND ATTENUATION
- 3AZS 3 5/8" METAL STUD, NON-RATED, (2) LAYERS OF GWB EACH SIDE W/ SOUND ATTENUATION
- 3A3 3 5/8" METAL STUD, 3 HOUR RATED FIRE WALL
- 3A5 3 5/8" METAL STUD, NON RATED SMOKE PARTITION
- 4S2 4" C-H METAL STUD, 2 HOUR RATED FIRE BARRIER
- 6MS 6" NOM. CMU W/ ACOUSTIC FILL
- 8M 8" NOM. CMU, NON-RATED, MIN. COURSING ABOVE CLG
- 8M3 8" NOM. CMU, 3 HOUR RATED FIRE WALL
- 12MD 12" NOM. CMU, NON-RATED, EXTEND TO DECK ABOVE



Wake County Public School System



434 FAYETTEVILLE STREET SUITE 1700 RALEIGH, NORTH CAROLINA 27601 TEL. 919.829.2700 FAX. 919.829.2730 WWW.LS3P.COM



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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4

SHEET NAME: PARTITION TYPES - METAL STUD, CMU AND CONCRETE

BID SET SUBMISSION: 2024.04.10

SHEET: A00.10

BID SET

THESE DIMENSIONS ARE EXACTLY AS SHOWN ON THE DRAWING. NO DIMENSIONS SHALL BE ASSUMED.

E

D

C

B

A

RCP NOTES BY NUMBER	
NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
4	AIR SCREEN REFER TO FOOD SERVICE DRAWINGS
5	KITCHEN HOOD, SEE MECHANICAL
6	12" W PROJECTION SCREEN
7	PRE-FABRICATED CANOPY
8	PRE-FAB CANOPY LIGHTING, RUN CONDUIT TIGHT TO BEAMS AND COLUMNS. PAINT EXPOSED CONDUIT TO MATCH CANOPY METAL.
9	ACCESS PANEL, COORDINATE EXACT LOCATION WITH MEP ABOVE
10	PENDANT LIGHT TYP, REF. ELECTRICAL

RCP LEGEND	
MATERIAL PATTERNS	BUILDING ELEMENTS
<ul style="list-style-type: none"> GYP CEILING GB21 MOISTURE RESISTANT GYP CEILING GB22 FIRE RESISTANT GYP CEILING GB22 24"x24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1 24"x24" ACOUSTIC TILE CEILING SYSTEM ACT-2 24"x24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3 24"x24" ACOUSTIC TILE CEILING SYSTEM W/ IMPACT RESISTANT CLIPS ACT-4 WOOD CEILING SYSTEM WCP-1 	<ul style="list-style-type: none"> CEILING TYPE GB21 10'-0" HEIGHT ABOVE LEVEL (NOT FINISH FLOOR) 10'-0" HEIGHT ABOVE LEVEL (NOT FINISH FLOOR) 24" x 24" ACCESS PANEL EXHAUST AIR DIFFUSER (ORTHOGONAL HATCH) RETURN AIR GRILLE (DIAGONAL HATCH) SUPPLY AIR GRILLE (CROSSHATCH) LIGHT FIXTURE (SHADED) LINEAR PENDANT LIGHT LINEAR RECESSED LIGHT 1 X 4 LED FIXTURE 1 X 4 LED FIXTURE LED FIXTURE WALL MOUNTED LED FIXTURE LED FIXTURE TRACK LIGHTING SPRINKLER HEAD SMOKE DETECTOR, SEE ELEC. HEAT DETECTOR, SEE ELEC. HORN/STROBE, SEE ELEC. STROBE, SEE ELEC. SECURITY CAMERA, SEE ELEC. CEILING MTD. EXIT SIGN
<ul style="list-style-type: none"> O.T.S. OPEN TO STRUCTURE O.T.A. OPEN TO ABOVE PA / INTERCOM SPEAKER, SEE ELEC. 	<ul style="list-style-type: none"> REF. CEILING TAGS AND SPECIFICATIONS SYMBOL SHAPES WILL VARY

REFLECTED CEILING PLAN SHEET NOTES

- PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
- INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD, FACE OF MASONRY AND CENTERLINES OF COLUMNS, UNO.
- CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION. OVERSIZED TILES SHALL BE INSTALLED WHERE TILES UNDER 6" OCCUR.
- ALL CEILINGS TO BE 10'-0" AFF. UNO. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
- SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
- LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION.
- CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPRINKLER HEADS, SPEAKERS, FIRE ALARM HORNS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN SIMILAR ITEMS ALONG A COMMON AXIS.
- LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
- PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
- HEIGHT OF GYPSUM BOARD SOFFITS SHALL BE 1" BELOW HEIGHT OF ADJACENT CEILING(TYP) UNLESS NOTED OTHERWISE.
- TOUCH-UP PAINT EXPOSED EDGES OF CUT ACOUSTICAL CEILING TILE TO MATCH SURFACE(TYP).
- INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.
- GYPSUM BOARD SOFFITS TO BE PAINTED PNT-1 UNLESS NOTED OTHERWISE ON CEILING PLANS.

PARTITION GRAPHICS

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4

- ALL INTERIOR MASONRY PARTITIONS TO BE 8" CMU U.N.O. - SEE PLANS FOR 12" CMU LOCATIONS.
- ALL INTERIOR METAL STUD PARTITIONS TO BE TYPE A6SX U.N.O.

GRAPHIC SAMPLE: 1 HOUR RATED CMU FIRE/SMOKE BARRIER:

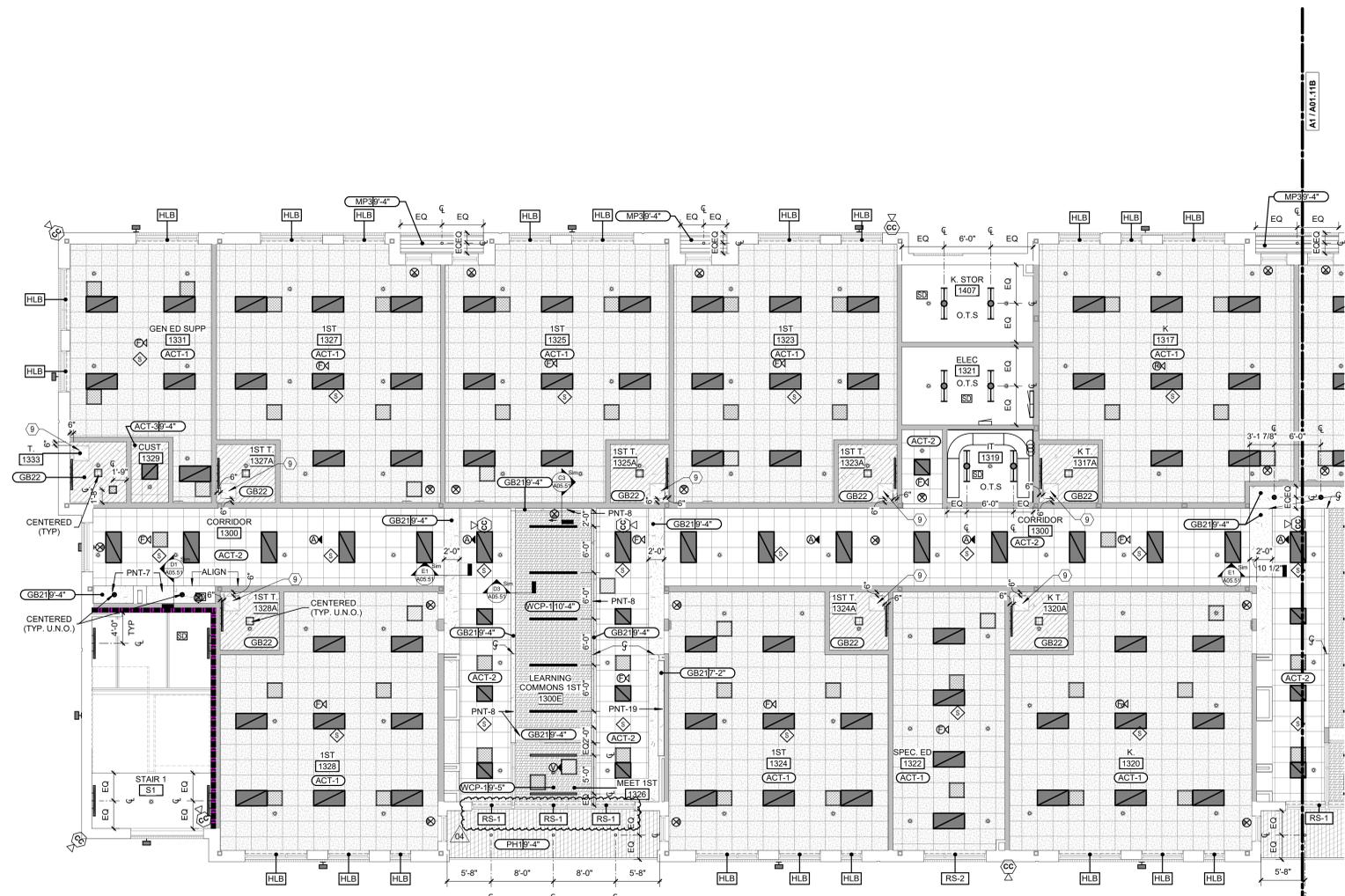
- SEE FILL PATTERN LEGEND FOR FIRE-RESISTANCE RATING
 - SEE COLOR LEGEND FOR HEIGHT CONDITION AND FIRE/SMOKE PROTECTION TYPE
 - SEE PARTITION TAG AND SCHEDULE FOR COMPLETE PARTITION INFORMATION

FILL PATTERN LEGEND

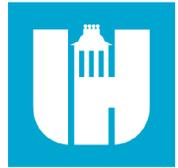
- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

COLOR LEGEND

- NON-RATED PARTITION TO 6" ABOVE CEILING, U.N.O.
- NON-RATED PARTITION TO DECK
- NON-RATED SMOKE PARTITION TO DECK
- RATED SMOKE BARRIER TO DECK
- RATED FIRE PARTITION TO DECK
- RATED FIRE/SMOKE BARRIER TO DECK
- RATED FIRE BARRIER TO DECK
- RATED FIRE WALL TO DECK



A1 RCP- PARTIAL- LEVEL 1 - AREA A
1/8" = 1'-0"



Wake County
Public School
System

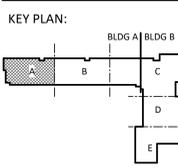


434 FAYETTEVILLE STREET SUITE 1700
RALEIGH, NORTH CAROLINA 27601
TEL. 919.829.2700 FAX. 919.829.2730
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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LSP PROJECT: 8201-207411



SHEET NAME:
REFLECTED
CEILING PLAN-
LEVEL 1- AREA A

BID SET SUBMISSION: 2024.04.10

SHEET:
A01.11A

BID SET

THE LINE SHOWN ABOVE IS EXACTLY ON THE FACE OF THE MEMBER UNLESS NOTED OTHERWISE.

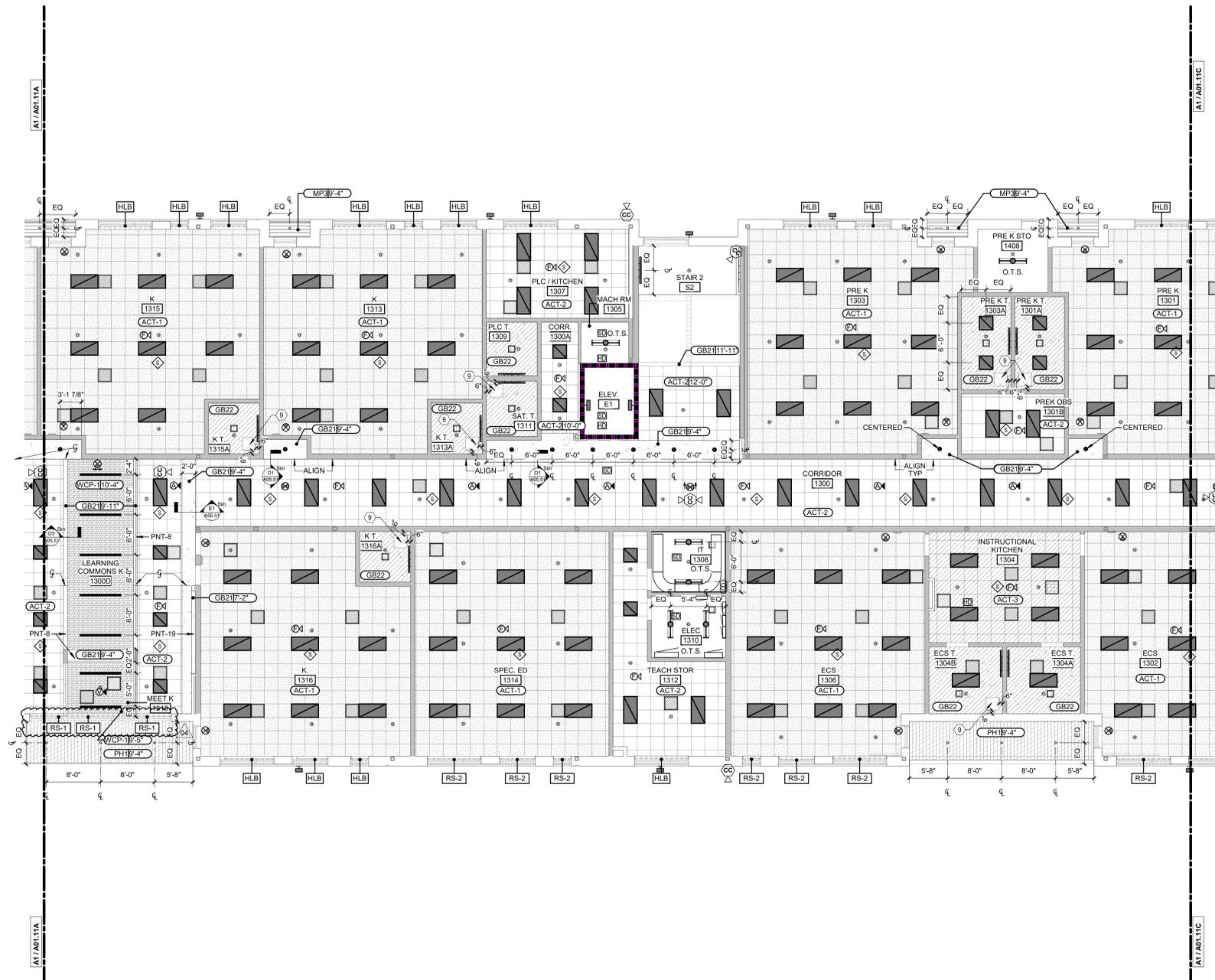
E

D

C

B

A



RCP NOTES BY NUMBER	
NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
4	AIR SCREEN REFER TO FOOD SERVICE DRAWINGS
5	KITCHEN HOOD, SEE MECHANICAL
6	12W PROJECTION SCREEN
7	PRE-FABRICATED CANOPY
8	PRE-FAB CANOPY LIGHTING, RUN CONDUIT TIGHT TO BEAMS AND COLUMNS. PAINT EXPOSED CONDUIT TO MATCH CANOPY METAL.
9	ACCESS PANEL, COORDINATE EXACT LOCATION WITH MEP ABOVE
10	PENDANT LIGHT TYP, REF. ELECTRICAL

RCP LEGEND

MATERIAL PATTERNS	BUILDING ELEMENTS
GYP CEILING GB21	CEILING TYPE
MOISTURE RESISTANT GYP CEILING GB22	HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
FIRE RESISTANT GYP CEILING GB22	HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
24"x24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1	24" x 24" ACCESS PANEL
24"x24" ACOUSTIC TILE CEILING SYSTEM ACT-2	EXHAUST AIR DIFFUSER (ORTHOGONAL HATCH)
24"x24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3	RETURN AIR GRILLE (DIAGONAL HATCH)
24"x24" ACOUSTIC TILE CEILING SYSTEM W/ IMPACT RESISTANT CLIPS WCP-1	SUPPLY AIR GRILLE (CROSSHATCH)
WOOD CEILING SYSTEM WCP-1	LIGHT FIXTURE (SHADED)
O.T.S. OPEN TO STRUCTURE	LINEAR PENDANT LIGHT
O.T.A. OPEN TO ABOVE	LINEAR RECESSED LIGHT
PA / INTERCOM SPEAKER, SEE ELEC.	1 X 4 LED FIXTURE
TRACK LIGHTING	WALL MOUNTED LED FIXTURE
SPRINKLER HEAD, SEE ELEC.	LED FIXTURE
HEAT DETECTOR, SEE ELEC.	STROBE, SEE ELEC.
SECURITY CAMERA, SEE ELEC.	CEILING MTD. EXIT SIGN
CEILING MTD. EXIT SIGN	

REF. CEILING TAGS AND SPECIFICATIONS SYMBOL SHAPES WILL VARY

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 - LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
 - PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
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 - GYPSUM BOARD SOFFITS TO BE PAINTED PNT-1 UNLESS NOTED OTHERWISE ON CEILING PLANS.

PARTITION GRAPHICS

1. ALL INTERIOR MASONRY PARTITIONS TO BE 8" CMU U.N.O. - SEE PLANS FOR 12" CMU LOCATIONS.

2. ALL INTERIOR METAL STUD PARTITIONS TO BE TYPE A6SX U.N.O.

GRAPHIC SAMPLE: 1 HOUR RATED CMU FIRE/SMOKE BARRIER:

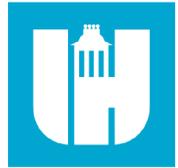
- SEE FILL PATTERN LEGEND FOR FIRE-RESISTANCE RATING
 - SEE COLOR LEGEND FOR HEIGHT CONDITION AND FIRE/SMOKE PROTECTION TYPE
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FILL PATTERN LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

COLOR LEGEND

- NON-RATED PARTITION TO 6" ABOVE CEILING, U.N.O.
- NON-RATED PARTITION TO DECK
- NON-RATED SMOKE PARTITION TO DECK
- RATED SMOKE BARRIER TO DECK
- RATED FIRE PARTITION TO DECK
- RATED FIRE/SMOKE BARRIER TO DECK
- RATED FIRE BARRIER TO DECK
- RATED FIRE WALL TO DECK



Wake County
Public School
System



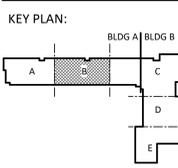
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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4



SHEET NAME:
REFLECTED
CEILING PLAN-
LEVEL 1- AREA B

BID SET SUBMISSION: 2024.04.10

SHEET:
A01.11B

A1 RCP- PARTIAL- LEVEL 1 - AREA B
1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT ABOVE THE FINISH FLOOR

E

D

C

B

A



RCP NOTES BY NUMBER	
NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
4	AIR SCREEN REFER TO FOOD SERVICE DRAWINGS
5	KITCHEN HOOD, SEE MECHANICAL
6	12W PROJECTION SCREEN
7	PRE-FABRICATED CANOPY
8	PRE-FAB CANOPY LIGHTING, RUN CONDUIT TIGHT TO BEAMS AND COLUMNS, PAINT EXPOSED CONDUIT TO MATCH CANOPY METAL.
9	ACCESS PANEL, COORDINATE EXACT LOCATION WITH MEP ABOVE
10	PENDANT LIGHT TYP, REF. ELECTRICAL

RCP LEGEND	
	CEILING TYPE GYP CEILING GB21
	MOISTURE RESISTANT GYP CEILING GB22
	FIRE RESISTANT GYP CEILING GB23
	24"x24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1
	24"x24" ACOUSTIC TILE CEILING SYSTEM ACT-2
	24"x24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3
	24"x24" ACOUSTIC TILE CEILING SYSTEM W/ RESISTANT CLIPS ACT-4
	WOOD CEILING SYSTEM WCP-1
	O.T.S. OPEN TO STRUCTURE
	O.T.A. OPEN TO ABOVE
	PA / INTERCOM SPEAKER, SEE ELEC.
	CEILING TYPE
	HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
	HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
	24" x 24" ACCESS PANEL
	EXHAUST AIR DIFFUSER (RECTANGULAR HATCH)
	RETURN AIR GRILLE (DIAGONAL HATCH)
	SUPPLY AIR GRILLE (CROSSHATCH)
	LIGHT FIXTURE (SHADED)
	LINEAR PENDANT LIGHT
	LINEAR RECESSED LIGHT
	1 X 4 LED FIXTURE
	WALL MOUNTED LED FIXTURE
	LED FIXTURE
	TRACK LIGHTING
	SPRINKLER HEAD
	SMOKE DETECTOR, SEE ELEC.
	HEAT DETECTOR, SEE ELEC.
	HORN/STROBE, SEE ELEC.
	STROBE, SEE ELEC.
	SECURITY CAMERA, SEE ELEC.
	CEILING MTD, EXIT SIGN

REFLECTED CEILING PLAN SHEET NOTES

- PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
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PARTITION GRAPHICS

DATE	DESCRIPTION
03/2024.04.24	ADDENDUM #3
04/2024.05.01	ADDENDUM #4

- ALL INTERIOR MASONRY PARTITIONS TO BE 8" CMU U.N.O. - SEE PLANS FOR 12" CMU LOCATIONS.
- ALL INTERIOR METAL STUD PARTITIONS TO BE TYPE A6SX U.N.O.

GRAPHIC SAMPLE: 1 HOUR RATED CMU FIRE/SMOKE BARRIER:

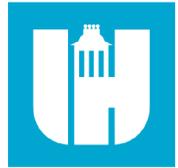
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- SEE COLOR LEGEND FOR HEIGHT CONDITION AND FIRE/SMOKE PROTECTION TYPE
- SEE PARTITION TAG AND SCHEDULE FOR COMPLETE PARTITION INFORMATION

FILL PATTERN LEGEND

-
-
-
-
-

COLOR LEGEND

-
-
-
-
-
-
-
-



Wake County Public School System

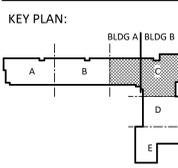


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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LS3P PROJECT: 8201-207411



SHEET NAME:
REFLECTED CEILING PLAN- LEVEL 1- AREA C

BID SET SUBMISSION: 2024.04.10

SHEET:
A01.11C

A1 RCP- PARTIAL- LEVEL 1 - AREA C
1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ON THE FACE OF THE FLOOR.

E

D

C

B

A

RCP NOTES BY NUMBER	
NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
4	AIR SCREEN REFER TO FOOD SERVICE DRAWINGS
5	KITCHEN HOOD, SEE MECHANICAL
6	12"W PROJECTION SCREEN
7	PRE-FABRICATED CANOPY
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9	ACCESS PANEL, COORDINATE EXACT LOCATION WITH MEP ABOVE
10	PENDANT LIGHT TYP. REF. ELECTRICAL

RCP LEGEND

	CEILING TYPE GB21		HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
	MOISTURE RESISTANT GYP CEILING GB22		HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
	FIRE RESISTANT GYP CEILING		24" x 24" ACCESS PANEL
	24" x 24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1		EXHAUST AIR DIFFUSER (ORTHOGONAL HATCH)
	24" x 24" ACOUSTIC TILE CEILING SYSTEM ACT-2		RETURN AIR GRILLE (DIAGONAL HATCH)
	24" x 24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3		SUPPLY AIR GRILLE (CROSSHATCH)
	24" x 24" ACOUSTIC TILE CEILING SYSTEM W/ IMPACT RESISTANT CLIPS ACT-4		LIGHT FIXTURE (SHADED)
	WOOD CEILING SYSTEM WCP-1		LINEAR PENDANT LIGHT
	O.T.S. OPEN TO STRUCTURE		LINEAR RECESSED LIGHT
	O.T.A. OPEN TO ABOVE		1 X 4 LED FIXTURE
	PA / INTERCOM SPEAKER, SEE ELEC.		WALL MOUNTED LED FIXTURE
	REF. CEILING TAGS AND SPECIFICATIONS		LED FIXTURE
			TRACK LIGHTING
			SPRINKLER HEAD
			SMOKE DETECTOR, SEE ELEC.
			HEAT DETECTOR, SEE ELEC.
			HORN/STROBE, SEE ELEC.
			STROBE, SEE ELEC.
			SECURITY CAMERA, SEE ELEC.
			CEILING MTD. EXIT SIGN

SYMBOL SHAPES WILL VARY

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 - CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPRINKLER HEADS, SPEAKERS, FIRE ALARM HORNS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN SIMILAR ITEMS ALONG A COMMON AXIS.
 - LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
 - PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
 - HEIGHT OF GYPSUM BOARD SOFFITS SHALL BE 1" BELOW HEIGHT OF ADJACENT CEILING(TYP) UNLESS NOTED OTHERWISE.
 - INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.
 - GYPSUM BOARD SOFFITS TO BE PAINTED PNT-1 UNLESS NOTED OTHERWISE ON CEILING PLANS.

PARTITION GRAPHICS

- ALL INTERIOR MASONRY PARTITIONS TO BE 8" CMU U.N.O. - SEE PLANS FOR 12" CMU LOCATIONS.
- ALL INTERIOR METAL STUD PARTITIONS TO BE TYPE A6SX U.N.O.

GRAPHIC SAMPLE: 1 HOUR RATED CMU FIRE/SMOKE BARRIER:

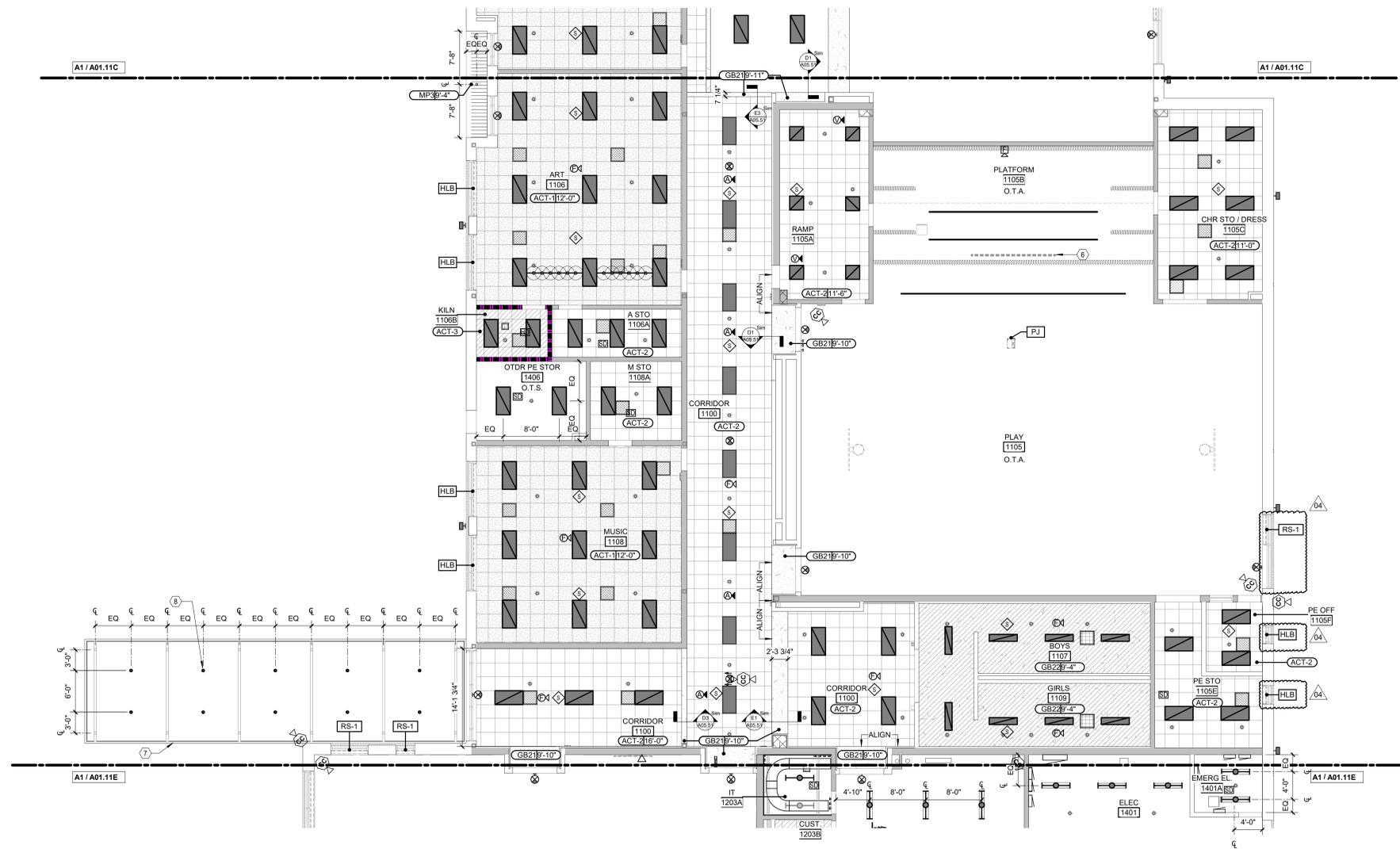
- SEE FILL PATTERN LEGEND FOR FIRE-RESISTANCE RATING
 - SEE COLOR LEGEND FOR HEIGHT CONDITION AND FIRE/SMOKE PROTECTION TYPE
 - SEE PARTITION TAG AND SCHEDULE FOR COMPLETE PARTITION INFORMATION

FILL PATTERN LEGEND

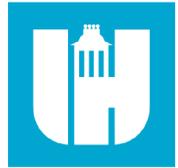
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COLOR LEGEND

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A1 RCP - PARTIAL - LEVEL 1 - AREA D
 1/8" = 1'-0"



Wake County
Public School
System



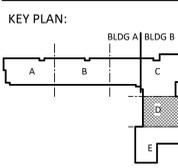
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Swift Creek Elementary School
 5601 Tryon Rd Raleigh, NC 27606
 LSP PROJECT: 8201-207411

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4



SHEET NAME:
 REFLECTED
 CEILING PLAN-
 LEVEL 1- AREA D

BID SET SUBMISSION: 2024.04.10

SHEET:
A01.11D

BID SET

THE LINE SHOWN ABOVE IS EXACTLY ONE INCH EQUAL TO ONE FOOT UNLESS OTHERWISE NOTED

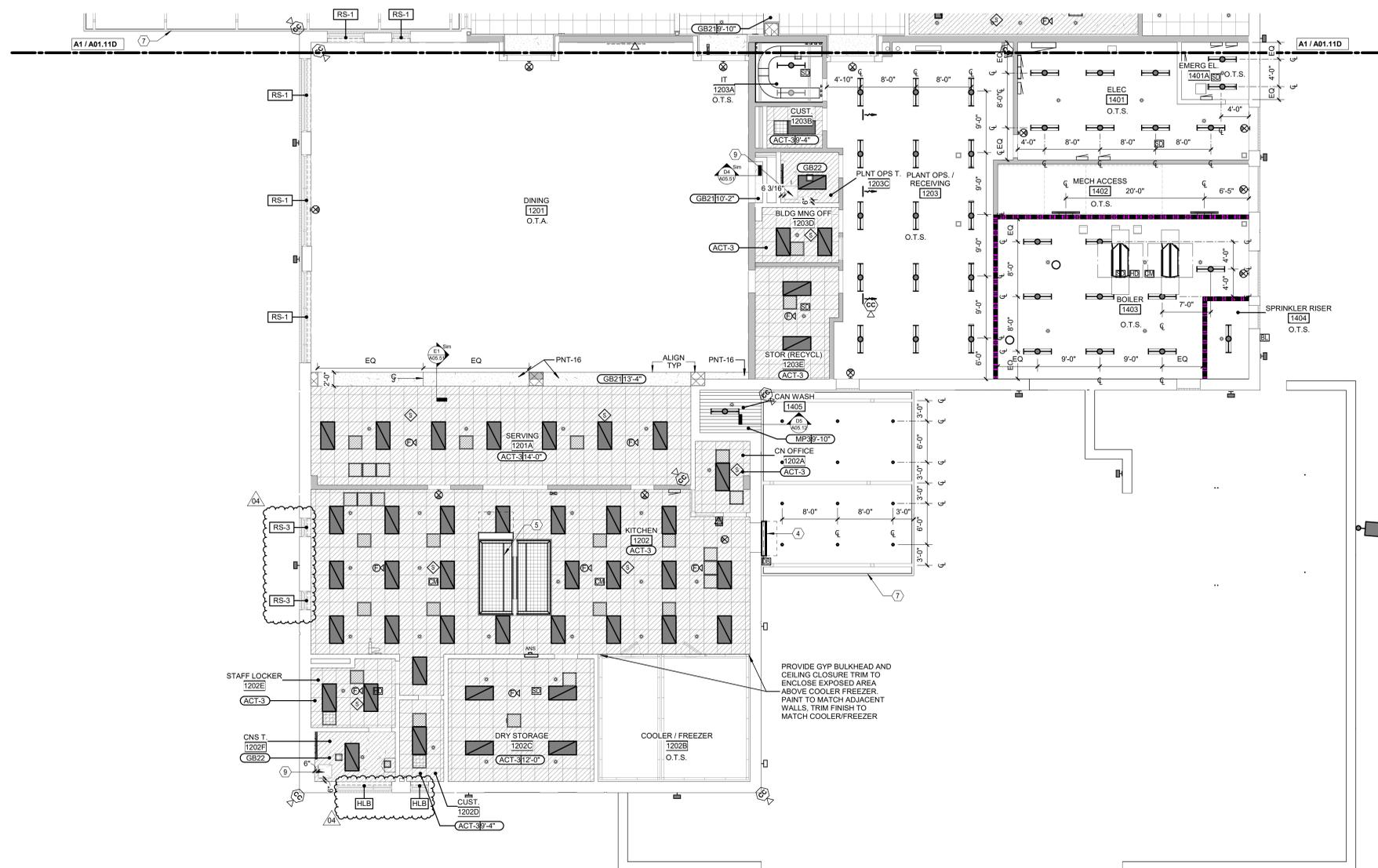
E

D

C

B

A



RCP NOTES BY NUMBER	
NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
4	AIR SCREEN REFER TO FOOD SERVICE DRAWINGS
5	KITCHEN HOOD, SEE MECHANICAL
6	12" W PROJECTION SCREEN
7	PRE-FABRICATED CANOPY
8	PRE-FAB CANOPY LIGHTING, RUN CONDUIT TIGHT TO BEAMS AND COLUMNS. PAINT EXPOSED CONDUIT TO MATCH CANOPY METAL.
9	ACCESS PANEL, COORDINATE EXACT LOCATION WITH MEP ABOVE
10	PENDANT LIGHT TYP, REF. ELECTRICAL

RCP LEGEND

MATERIAL PATTERNS	BUILDING ELEMENTS
GYP CEILING GB21	CEILING TYPE
MOISTURE RESISTANT GYP CEILING GB22	HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
FIRE RESISTANT GYP CEILING	24" x 24" ACCESS PANEL
24" x 24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1	EXHAUST AIR DIFFUSER (ORTHOGONAL HATCH)
24" x 24" ACOUSTIC TILE CEILING SYSTEM ACT-2	RETURN AIR GRILLE (DIAGONAL HATCH)
24" x 24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3	SUPPLY AIR GRILLE (CROSS HATCH)
24" x 24" ACOUSTIC TILE CEILING SYSTEM W/ IMPACT RESISTANT CLIPS ACT-4	LIGHT FIXTURE (SHADED)
WOOD CEILING SYSTEM WCP-1	LINEAR PENDANT LIGHT
O.T.S. OPEN TO STRUCTURE	LINEAR RECESSED LIGHT
O.T.A. OPEN TO ABOVE	1 X 4 LED FIXTURE
PA / INTERCOM SPEAKER, SEE ELEC.	WALL MOUNTED LED FIXTURE
	LED FIXTURE
	TRACK LIGHTING
	SPRINKLER HEAD
	SMOKE DETECTOR, SEE ELEC.
	HEAT DETECTOR, SEE ELEC.
	HORN/STROBE, SEE ELEC.
	STROBE, SEE ELEC.
	SECURITY CAMERA, SEE ELEC.
	CEILING MTD. EXIT SIGN

REF: CEILING TAGS AND SPECIFICATIONS SYMBOL SHAPES WILL VARY

- ### REFLECTED CEILING PLAN SHEET NOTES
- PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
 - INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD, FACE OF MASONRY AND CENTERLINES OF COLUMNS, UNO.
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PARTITION GRAPHICS

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GRAPHIC SAMPLE: 1 HOUR RATED CMU FIRE/SMOKE BARRIER:

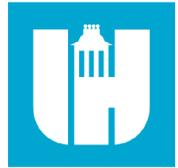
- SEE FILL PATTERN LEGEND FOR FIRE-RESISTANCE RATING
- SEE COLOR LEGEND FOR HEIGHT CONDITION AND FIRE/SMOKE PROTECTION TYPE
- SEE PARTITION TAG AND SCHEDULE FOR COMPLETE PARTITION INFORMATION

FILL PATTERN LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

COLOR LEGEND

- NON-RATED PARTITION TO 6' ABOVE CEILING, U.N.O.
- NON-RATED PARTITION TO DECK
- NON-RATED SMOKE PARTITION TO DECK
- RATED SMOKE BARRIER TO DECK
- RATED FIRE PARTITION TO DECK
- RATED FIRE/SMOKE BARRIER TO DECK
- RATED FIRE BARRIER TO DECK
- RATED FIRE WALL TO DECK



Wake County Public School System



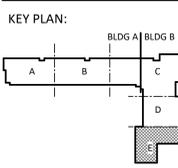
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Swift Creek Elementary School 5601 Tryon Rd Raleigh, NC 27606

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4



SHEET NAME: REFLECTED CEILING PLAN-LEVEL 1- AREA E

BID SET SUBMISSION: 2024.04.10

SHEET: A01.11E

A1 RCP- PARTIAL- LEVEL 1 - AREA E 1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ON THE FACE OF THE STUD. UNLESS NOTED OTHERWISE.

E

D

C

B

A

RCP NOTES BY NUMBER	
NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
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5	KITCHEN HOOD, SEE MECHANICAL
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9	ACCESS PANEL, COORDINATE EXACT LOCATION WITH MEP ABOVE
10	PENDANT LIGHT TYP, REF. ELECTRICAL

RCP LEGEND

	CEILING TYPE GB21		CEILING TYPE GB21
	MOISTURE RESISTANT GYP CEILING GB22		HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
	FIRE RESISTANT GYP CEILING		HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
	24" x 24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1		24" x 24" ACCESS PANEL
	24" x 24" ACOUSTIC TILE CEILING SYSTEM ACT-2		EXHAUST AIR DIFFUSER (ORTHOGONAL HATCH)
	24" x 24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3		RETURN AIR GRILLE (DIAGONAL HATCH)
	24" x 24" ACOUSTIC TILE CEILING SYSTEM W/ IMPACT RESISTANT CLIPS ACT-4		SUPPLY AIR GRILLE (CROSSHATCH)
	WOOD CEILING SYSTEM WCP-1		LIGHT FIXTURE (SHADED)
	OPEN TO STRUCTURE		LINEAR PENDANT LIGHT
	OPEN TO ABOVE		LINEAR RECESSED LIGHT
	PA / INTERCOM SPEAKER, SEE ELEC.		1 X 4 LED FIXTURE
	WALL MOUNTED LED FIXTURE		LED FIXTURE
	LED FIXTURE		TRACK LIGHTING
	SPRINKLER HEAD		SMOKE DETECTOR, SEE ELEC.
	HEAT DETECTOR, SEE ELEC.		HORN/STROBE, SEE ELEC.
	STROBE, SEE ELEC.		SECURITY CAMERA, SEE ELEC.
	CEILING MTD. EXIT SIGN		SYMBOL SHAPES WILL VARY

REF: CEILING TAGS AND SPECIFICATIONS

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PARTITION GRAPHICS

1. ALL INTERIOR MASONRY PARTITIONS TO BE 8" CMU U.N.O. - SEE PLANS FOR 12" CMU LOCATIONS.

2. ALL INTERIOR METAL STUD PARTITIONS TO BE TYPE A6SX U.N.O.

GRAPHIC SAMPLE: 1 HOUR RATED CMU FIRE/SMOKE BARRIER:

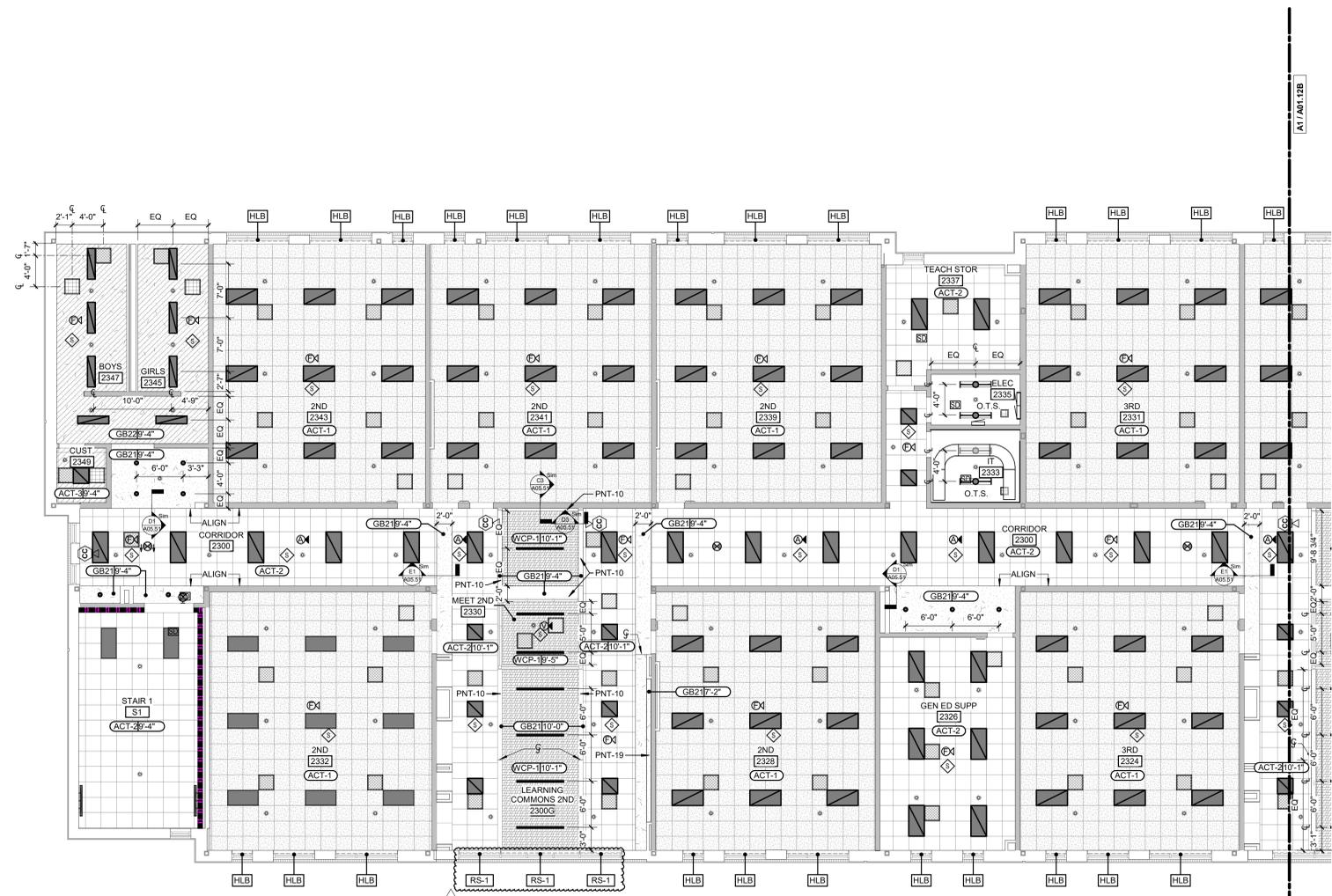
- SEE FILL PATTERN LEGEND FOR FIRE-RESISTANCE RATING
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FILL PATTERN LEGEND

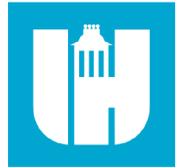
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COLOR LEGEND

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A1 RCP- PARTIAL- LEVEL 2 - AREA A
1/8" = 1'-0"



Wake County
Public School
System



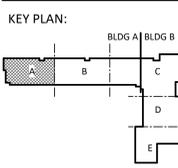
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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LSP PROJECT: 8201-207411

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4



SHEET NAME:
REFLECTED
CEILING PLAN-
LEVEL 2- AREA A

BID SET SUBMISSION: 2024.04.10

SHEET:
A01.12A

THE LINE SHOWN ABOVE IS EXACTLY ON THE FACE OF THE MEMBER UNLESS NOTED OTHERWISE.

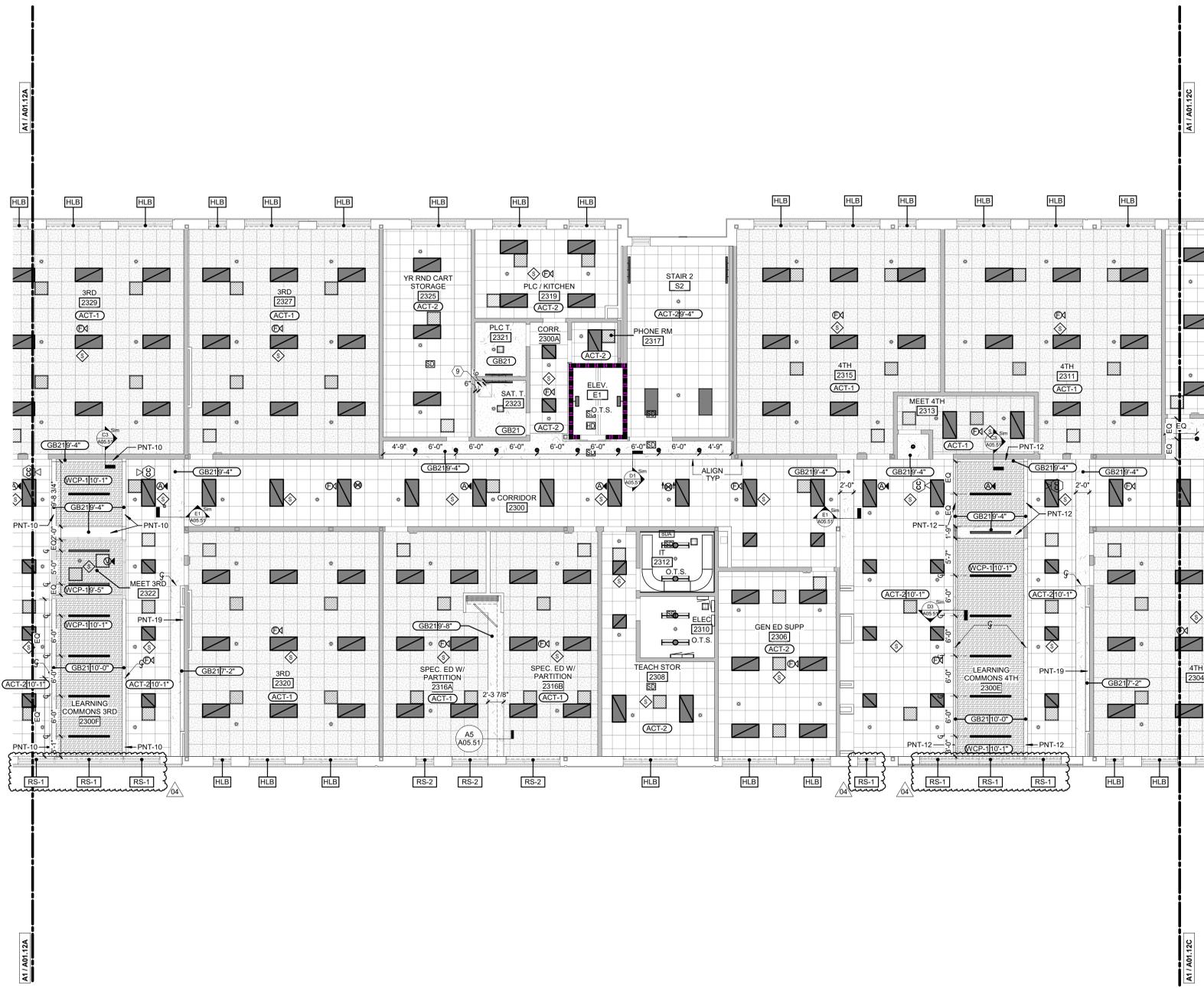
E

D

C

B

A



RCP NOTES BY NUMBER	
NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
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RCP LEGEND

MATERIAL PATTERNS

- GYP CEILING GB21
- MOISTURE RESISTANT GYP CEILING GB22
- FIRE RESISTANT GYP CEILING
- 24"x24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1
- 24"x24" ACOUSTIC TILE CEILING SYSTEM ACT-2
- 24"x24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3
- 24"x24" ACOUSTIC TILE CEILING SYSTEM W/ IMPACT RESISTANT CLIPS ACT
- WOOD CEILING SYSTEM WCP-1

BUILDING ELEMENTS

- CEILING TYPE
- GB21 10'-0" HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
- 10'-0" HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
- 24" x 24" ACCESS PANEL
- EXHAUST AIR DIFFUSER (ORTHOGONAL HATCH)
- RETURN AIR GRILLE (DIAGONAL HATCH)
- SUPPLY AIR GRILLE (CROSSHATCH)
- LIGHT FIXTURE (SHADED)
- LINEAR PENDANT LIGHT
- LINEAR RECESSED LIGHT
- 1 X 4 LED FIXTURE
- WALL MOUNTED LED FIXTURE
- LED FIXTURE
- TRACK LIGHTING
- SPRINKLER HEAD
- SMOKE DETECTOR, SEE ELEC.
- HEAT DETECTOR, SEE ELEC.
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REF: CEILING TAGS AND SPECIFICATIONS SYMBOL SHAPES WILL VARY

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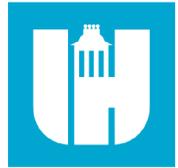
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FILL PATTERN LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

COLOR LEGEND

- NON-RATED PARTITION TO 6" ABOVE CEILING, U.N.O.
- NON-RATED PARTITION TO DECK
- NON-RATED SMOKE PARTITION TO DECK
- RATED SMOKE BARRIER TO DECK
- RATED FIRE PARTITION TO DECK
- RATED FIRE/SMOKE BARRIER TO DECK
- RATED FIRE BARRIER TO DECK
- RATED FIRE WALL TO DECK



Wake County
Public School
System



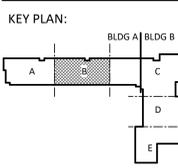
434 FAYETTEVILLE STREET SUITE 1700
RALEIGH, NORTH CAROLINA 27601
TEL. 919.829.2700 FAX. 919.829.2730
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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LSP PROJECT: 8201-207411

A	DATE	DESCRIPTION
04	2024.05.01	ADDENDUM #4



SHEET NAME:
REFLECTED
CEILING PLAN-
LEVEL 2- AREA B

BID SET SUBMISSION: 2024.04.10

SHEET:
A01.12B

A1 RCP- PARTIAL- LEVEL 2 - AREA B
1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT ABOVE THE FINISH FLOOR AND SHALL BE USED AS SUCH.

E

D

C

B

A



RCP NOTES BY NUMBER

NUMBER	NOTE
1	ROOF ACCESS HATCH WITH FALL PROTECTION RAILING
2	WALL-MOUNTED LADDER TO ROOF ACCESS HATCH
3	EXTERIOR STEEL FRAMED CANOPY
4	AIR SCREEN REFER TO FOOD SERVICE DRAWINGS
5	KITCHEN HOOD, SEE MECHANICAL
6	12W PROJECTION SCREEN
7	PRE-FABRICATED CANOPY
8	PRE-FAB CANOPY LIGHTING, RUN CONDUIT TIGHT TO BEAMS AND COLUMNS. PAINT EXPOSED CONDUIT TO MATCH CANOPY METAL.
9	ACCESS PANEL, COORDINATE EXACT LOCATION WITH MEP ABOVE
10	PENDANT LIGHT TYP. REF. ELECTRICAL

RCP LEGEND

MATERIAL PATTERNS	BUILDING ELEMENTS
GYP CEILING GB21	CEILING TYPE GB21 10'-0"
MOISTURE RESISTANT GYP CEILING GB22	HEIGHT ABOVE LEVEL (NOT FINISH FLOOR)
FIRE RESISTANT GYP CEILING	24" x 24" ACCESS PANEL
24" x 24" ACOUSTIC TILE CEILING SYSTEM NRC ACT-1	EXHAUST AIR DIFFUSER (RECTANGULAR HATCH)
24" x 24" ACOUSTIC TILE CEILING SYSTEM ACT-2	RETURN AIR GRILLE (DIAGONAL HATCH)
24" x 24" VINYL FACED ACOUSTIC TILE CEILING SYSTEM ACT-3	SUPPLY AIR GRILLE (CROSSHATCH)
24" x 24" ACOUSTIC TILE CEILING SYSTEM W/ IMPACT RESISTANT CLIPS ACT-4	LIGHT FIXTURE (SHADED)
WOOD CEILING WCP-1	LINEAR PENDANT LIGHT
O.T.S. OPEN TO STRUCTURE	LINEAR RECESSED LIGHT
O.T.A. OPEN TO ABOVE	1 X 4 LED FIXTURE
PA / INTERCOM SPEAKER, SEE ELEC.	WALL MOUNTED LED FIXTURE
	LED FIXTURE
	TRACK LIGHTING
	SPRINKLER HEAD
	SMOKE DETECTOR, SEE ELEC.
	HEAT DETECTOR, SEE ELEC.
	HORN/STROBE, SEE ELEC.
	STROBE, SEE ELEC.
	SECURITY CAMERA, SEE ELEC.
	CEILING MTD. EXIT SIGN

REF: CEILING TAGS AND SPECIFICATIONS SYMBOL SHAPES WILL VARY

REFLECTED CEILING PLAN SHEET NOTES

- PROVIDE SEISMIC RESTRAINT OF SUSPENDED CEILING SYSTEMS IN SITE CLASSIFICATIONS C, D, E & F.
- INTERIOR DIMENSIONS INDICATED ARE TO FACE OF STUD, FACE OF MASONRY AND CENTERLINES OF COLUMNS, UNO.
- CEILING GRIDS/TILES TO BE CENTERED IN ALL ROOMS UNLESS NOTED OTHERWISE. PARTIAL TILES AT ROOM PERIMETERS SHALL NOT BE LESS THAN 6" IN EITHER DIMENSION. OVERSIZED TILES SHALL BE INSTALLED WHERE TILES UNDER 6" OCCUR.
- ALL CEILINGS TO BE 10'-0" AFF. UNO. CEILING HEIGHTS SHOWN ON THE REFLECTED CEILING PLANS ARE NON-TYPICAL AND SPECIFIC TO THE AREA INDICATED. REFER TO INTERIOR ELEVATIONS FOR THE HEIGHTS OF SOFFITS ABOVE CASEWORK.
- SEE ELECTRICAL, FIRE ALARM AND FIRE PROTECTION DRAWINGS FOR SPECIAL SYSTEMS, SMOKE DETECTORS, LIGHTING AND WALL MOUNTED FIXTURES NOT SHOWN ON THIS SHEET. COORDINATE LOCATIONS OF ALL FIXTURES NOT INDICATED WITH LAYOUT INDICATED ON THIS SHEET.
- LIGHT FIXTURES AND MECHANICAL DIFFUSERS ARE SHOWN FOR POSITIONING IN FINISH CEILING SYSTEM. COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR FIXTURE TYPES, MECHANICAL DIFFUSERS, WALL MOUNTED FIXTURES AND INSTALLATION OF FIXTURES IN SPACES WITHOUT CEILINGS. (LIGHTING AND HVAC DIFFUSERS ARE SHOWN FOR COORDINATION ONLY - SEE MECHANICAL AND ELECTRICAL DRAWINGS FOR SPECIFIC INFORMATION).
- CENTER LIGHTS, DIFFUSERS, EXIT SIGNS, SMOKE DETECTORS, SPRINKLER HEADS, SPEAKERS, FIRE ALARM HORNS/STROBES & MISC DEVICES IN CEILING TILES WHERE THEY ARE LOCATED. ALIGN SIMILAR ITEMS ALONG A COMMON AXIS.
- LOCATE MECHANICAL GRILLES AND DIFFUSERS SHOWN IN CORNERS OR NEAR WALL TO 12" OFF WALLS, UNO.
- PROVIDE AND INSTALL CEILING ACCESS PANEL IN GYPSUM BOARD CEILINGS AT DEVICES REQUIRING ACCESS INCLUDING BUT NOT LIMITED TO BALANCING DAMPERS, SMOKE DETECTORS, VAV CONTROLS, PLUMBING VALVES, ELECTRICAL JUNCTION BOXES, ETC. MINIMIZE ACCESS DOORS WHERE POSSIBLE.
- HEIGHT OF GYPSUM BOARD SOFFITS SHALL BE 1" BELOW HEIGHT OF ADJACENT CEILING(TYP) UNLESS NOTED OTHERWISE.
- TOUCH-UP PAINT EXPOSED EDGES OF CUT ACOUSTICAL CEILING TILE TO MATCH SURFACE(TYP).
- INDIVIDUAL TRADE COMPONENTS, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURE WHIPS, FLEXIBLE FIRE PROTECTION PIPING, LOW VOLTAGE WIRING, ETC. SHALL NOT BE SUPPORTED BY ACOUSTICAL CEILING SYSTEM.
- GYPSUM BOARD SOFFITS TO BE PAINTED PNT-1 UNLESS NOTED OTHERWISE ON CEILING PLANS.

PARTITION GRAPHICS

- ALL INTERIOR MASONRY PARTITIONS TO BE 8" CMU U.N.O. - SEE PLANS FOR 12" CMU LOCATIONS.
- ALL INTERIOR METAL STUD PARTITIONS TO BE TYPE A6SX U.N.O.

GRAPHIC SAMPLE: 1 HOUR RATED CMU FIRE/SMOKE BARRIER:

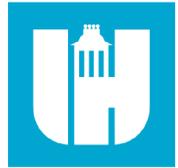
- SEE FILL PATTERN LEGEND FOR FIRE-RESISTANCE RATING
- SEE COLOR LEGEND FOR HEIGHT CONDITION AND FIRE/SMOKE PROTECTION TYPE
- SEE PARTITION TAG AND SCHEDULE FOR COMPLETE PARTITION INFORMATION

FILL PATTERN LEGEND

- 30 MIN-RATED PARTITION
- 1 HOUR-RATED PARTITION
- 2 HOUR-RATED PARTITION
- 3 HOUR-RATED PARTITION
- 4 HOUR-RATED PARTITION

COLOR LEGEND

- NON-RATED PARTITION TO 6' ABOVE CEILING, U.N.O.
- NON-RATED PARTITION TO DECK
- NON-RATED SMOKE PARTITION TO DECK
- RATED SMOKE BARRIER TO DECK
- RATED FIRE PARTITION TO DECK
- RATED FIRE/SMOKE BARRIER TO DECK
- RATED FIRE BARRIER TO DECK
- RATED FIRE WALL TO DECK



Wake County Public School System



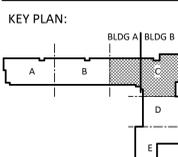
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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4



SHEET NAME:
REFLECTED CEILING PLAN-
LEVEL 2- AREA C

BID SET SUBMISSION: 2024.04.10

SHEET:
A01.12C

A1 RCP- PARTIAL- LEVEL 2 - AREA C
1/8" = 1'-0"

THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT FROM THE CENTER OF THE ROOM AS SHOWN ABOVE

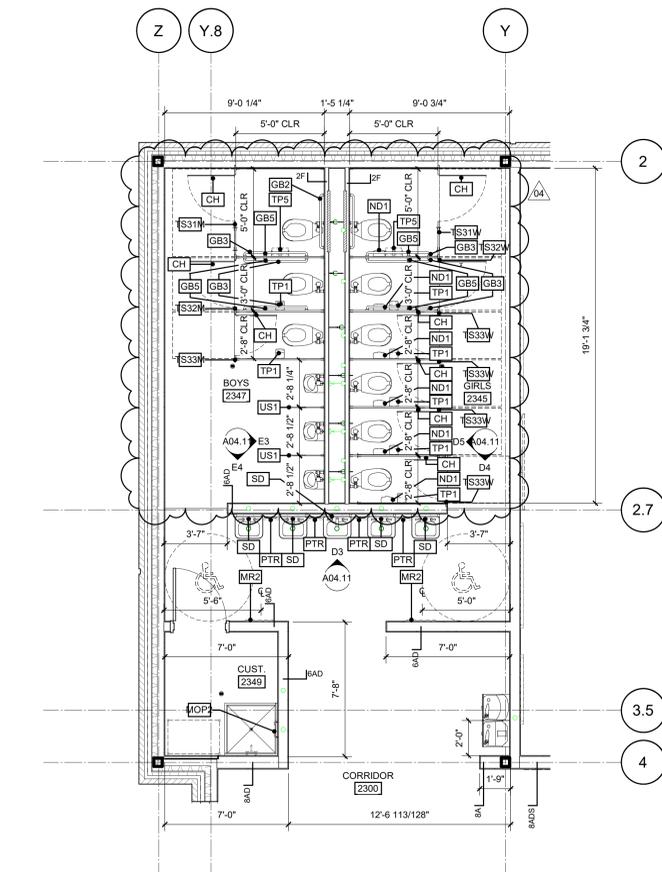
E

D

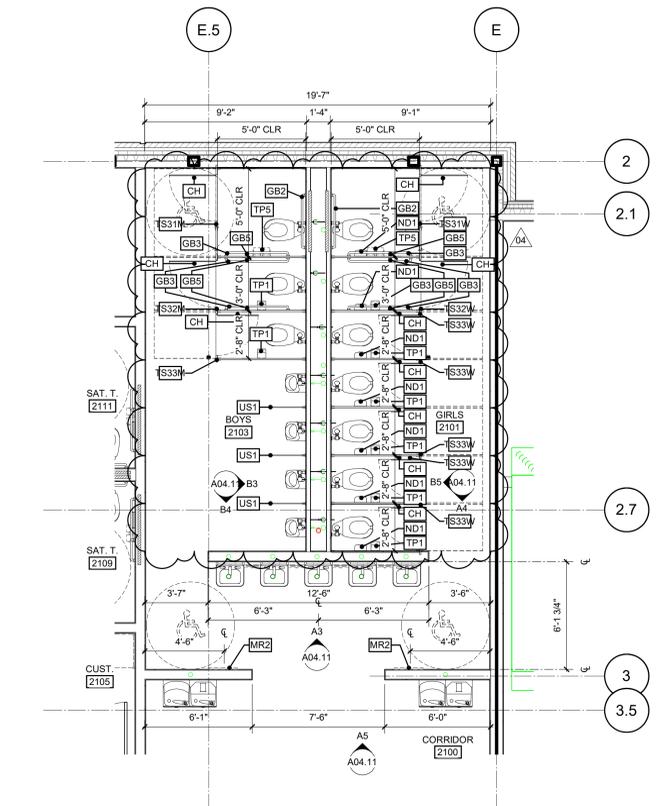
C

B

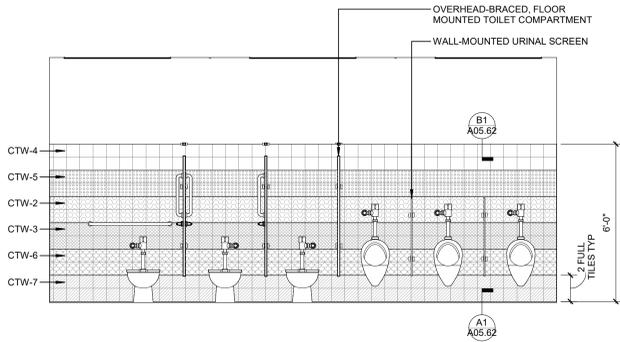
A



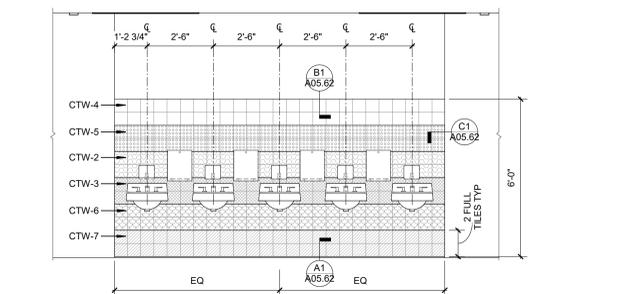
C1 ENLARGED FLOOR PLAN - LEVEL 2 AREA A GROUP TOILETS



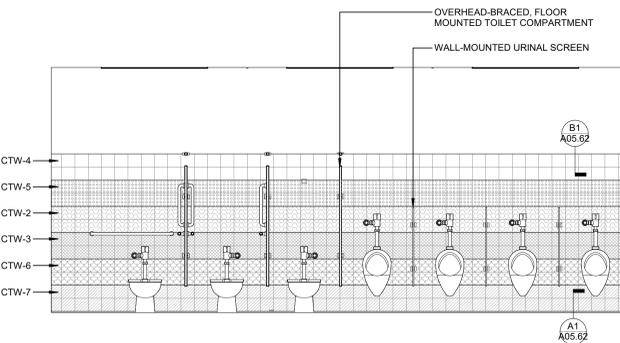
A1 ENLARGED FLOOR PLAN - LEVEL 2 GROUP RESTROOM - EAST



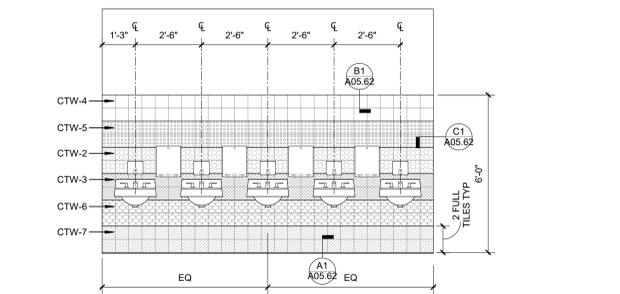
E3 BOYS 2347 - EAST



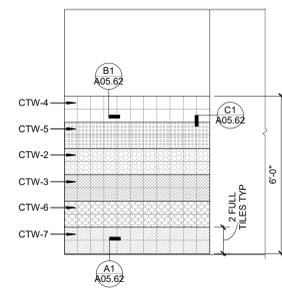
D3 GROUP RESTROOM - TYP LAVATORY WALL



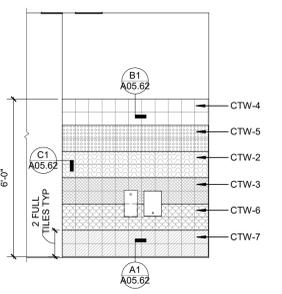
B3 BOYS 2103 - EAST



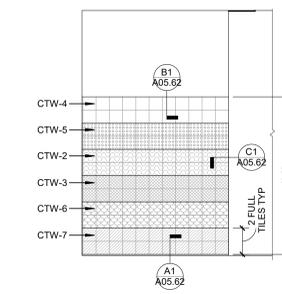
A3 GROUP RESTROOM - TYP LAVATORY WALL



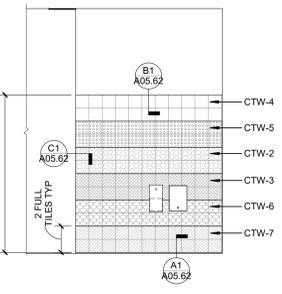
E4 BOYS 2347 - SOUTH



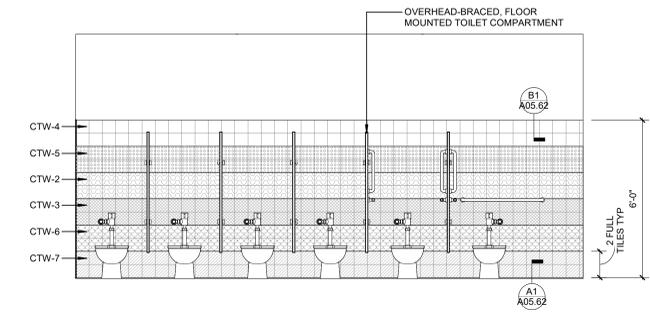
D4 GIRLS 2345 - SOUTH



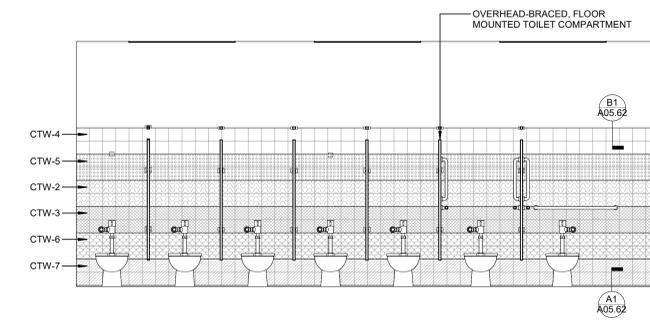
B4 BOYS 2103 - SOUTH



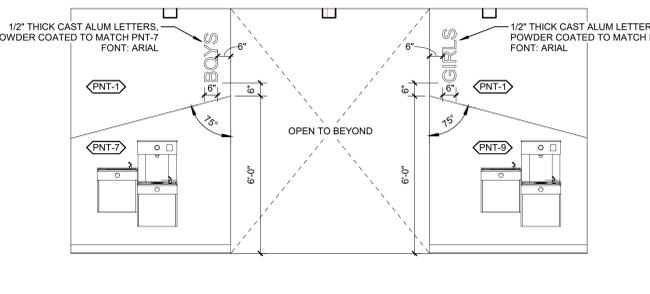
A4 GIRLS 2101 - SOUTH



D5 GIRLS 2345 - WEST



B5 GIRLS 2101 - WEST



A5 GROUP RESTROOM - CORRIDOR



Wake County Public School System



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Swift Creek Elementary School 5601 Tryon Rd Raleigh, NC 27606 LSP PROJECT: 8201-207411

DATE	DESCRIPTION
04/2024.05.01	ADDENDUM #4

SHEET NAME: ENLARGED TOILET ROOM PLANS AND ELEVATIONS

BID SET SUBMISSION: 2024.04.10

SHEET: A04.11

BID SET

ARCH- DOOR SCHEDULE- LEVEL 1

DOOR NUMBER	FIRE RATING (MIN)	DOOR PANELS										DOOR FRAME										COMMENTS	#			
		PANEL TYPE		PANEL DIMENSIONS				TOTAL OF PANELS				FACE DIMENSIONS		FINISH		TYPE		HEAD		JAMB				HW SET		
		PANEL 1	PANEL 2	WIDTH	HEIGHT	WIDTH	HEIGHT	THICKNESS	FINISH 1	FINISH 2	TYPE	JAMB	HEAD	DEPTH	FINISH 1	FINISH 2	HEAD	JAMB	HW SET	COMMENTS						
1000A		PNL-G-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	37.0						1000A	
1000C		PNL-G-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	37.0						1000C	
1000D		PNL-G-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	37.0						1000D	
1001A		PNL-E21G-AL		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		C2 / A06.22	B2 / A06.22	25.0					REMOTE RELEASE	1001A	
1001B		PNL-E21G-AL		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		C2 / A06.22	B3 / A06.22	24.0						1001B	
1001C	90	PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	5 7/8"	08-OPENINGS-HM		B3 / A05.63	D1 / A05.63	37.0					PROVIDE LOCK, PROVIDE CLOSER	1001C	
1002		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	10 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	41.0						1002	
1003		PNL-G-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	32.1						1003	
1004		PNL-FG-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	10 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	35.1						1004	
1005A		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	28.0						1005A	
1005B		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	10 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	38.0						1005B	
1006		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	30.0						1006	
1007A		PNL-FG-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	32.1						1007A	
1007B		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	29.0						1007B	
1008		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	34.0						1008	
1009		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1009	
1010		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0					PROVIDE LOCK	1010	
1011		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	41.0						1011	
1012		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1012	
1013		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	42.0						PROVIDE LOCK	1013
1014		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1014	
1015		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	27.0						1015	
1015A		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	10 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	35.0						1015A	
1016		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1016	
1017		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	30.0					PROVIDE LOCK	1017	
1018		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	30.0					PROVIDE LOCK	1018	
1019		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	30.0						1019	
1020		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1020	
1021		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	35.0					PROVIDE LOCK, PROVIDE CLOSER	1021	
1023		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1023	
1025A		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	9 3/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	32.0						1025A	
1025B		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	9 3/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1025B	
1027		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1027	
1029		PNL-N-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1029	
1031		PNL-FG-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-00HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	31.0						1031	
1100A		PNL-E21G-AL	PNL-E21G-AL	3'-0"	3'-0"	7'-0"	6'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		D2 / A05.23	B2 / A05.23	4.0					DOOR ACTUATOR, PANIC HARDWARE, REMOTE RELEASE, REMOVABLE MULLION	1100A
1100B		PNL-E21G-AL	PNL-E21G-AL	3'-0"	3'-0"	7'-0"	6'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		D2 / A05.23	B2 / A05.23	6.0					PANIC HARDWARE, REMOVABLE MULLION	1100B
1100C		PNL-E21G-AL	PNL-E21G-AL	3'-0"	3'-0"	7'-0"	6'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		C2 / A06.22	B2 / A06.22	12.0					DOOR ACTUATOR, PANIC HARDWARE, REMOTE RELEASE, REMOVABLE MULLION	1100C
1100D		PNL-E21G-AL	PNL-E21G-AL	3'-0"	3'-0"	7'-0"	6'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		C2 / A06.22	B2 / A06.22	13.0					PANIC HARDWARE, REMOVABLE MULLION	1100D
1100E		PNL-E21G-AL	PNL-E21G-AL	3'-0"	3'-0"	7'-0"	6'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		D2 / A05.23	B5 / A05.23	6.0					PANIC HARDWARE, REMOVABLE MULLION	1100E
1100F		PNL-E21G-AL		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		D2 / A05.23	B2 / A05.23	5.0						PANIC HARDWARE	1100F
1100G		PNL-E21G-AL		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		D2 / A05.23	B2 / A05.23	5.0						PANIC HARDWARE	1100G
1100H		PNL-E21G-AL		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		D2 / A05.23	B2 / A05.23	2.1						PANIC HARDWARE, REMOVABLE MULLION	1100H
1101		PNL-E21G-W D	PNL-E21G-W D	3'-0"	3'-0"	7'-0"	6'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-10HM1	2"	2"	10 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	22.0					PANIC HARDWARE, REMOVABLE MULLION	1101
1101A		PNL-FG-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-10HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	27.1						2 COAT HOOKS BACK OF DOOR	1101A
1101B		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-10HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	29.0						1101B	
1101C		PNL-F-WD		3'-0"	7'-0"	3'-0"	7'-0"	1/4"	08-OPENINGS-FWD-1	08-OPENINGS-GL31	FRM-10HM1	2"	2"	8 1/8"	08-OPENINGS-HM		C6 / A06.22	B6 / A06.22	41.0						1101C	
1101D		PNL-E21G-AL	PNL-E21G-AL	3'-0"	3'-0"	7'-0"	5'-11 1/2"	7'-0"	1/4"	08-OPENINGS-AL	08-OPENINGS-GL11	SEE TYPE ELEVATION	0"	0"	4 3/4"	08-OPENINGS-AL		D2 / A05.23	A1 / A05.23							

THE LINE SHOWN ABOVE IS EXACTLY ONE FOOT ABOVE THE FINISHED FLOOR AND IS NOT TO BE CHANGED.

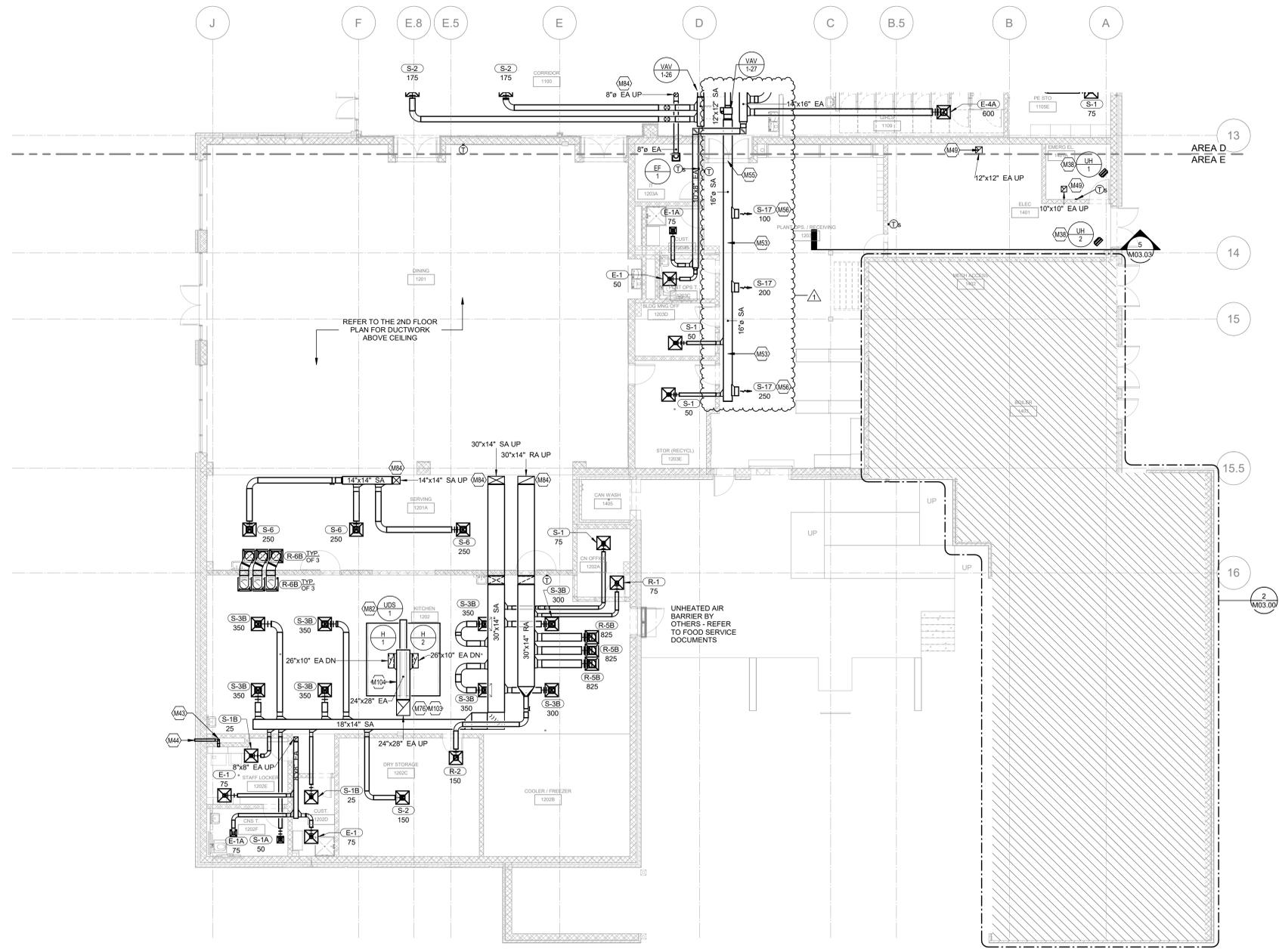
E

D

C

B

A



1 FLOOR PLAN - PARTIAL - LEVEL 1 - AREA E - MECHANICAL
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

- A. PROVIDE A HIGH-EFFICIENCY TAKE-OFF AND VOLUME DAMPER AT EACH GRILLE, REGISTER, AND DIFFUSER DUCT BRANCH RUNOUT. TYPICAL OF ALL. REFER TO THE DETAIL ON SHEET M05.00 FOR ADDITIONAL REQUIREMENTS.
- B. DO NOT ROUTE PIPING OR DUCTWORK ABOVE ELECTRICAL PANELS.
- C. DUCT OFFSETS SHALL USE 45° ELBOWS WHERE POSSIBLE.
- D. COORDINATE POWER AND CONTROLS CONNECTIONS TO ALL NEW MECHANICAL EQUIPMENT WITH OTHER TRADES.
- E. CONTRACTOR IS RESPONSIBLE FOR LOCATING ALL NEW MECHANICAL EQUIPMENT SO THAT ALL REQUIRED CLEARANCES ARE MAINTAINED. COORDINATE LOCATIONS WITH OTHER TRADES. DO NOT BLOCK SIDE OR BOTTOM ACCESS TO NEW MECHANICAL EQUIPMENT INSTALLED ABOVE CEILING.
- F. VAV BOXES: VAV BOXES SHALL BE INSTALLED BETWEEN 18" AND 24" ABOVE ACCESSIBLE CEILINGS TO BOTTOM OF EACH BOX. FOR INLET DUCTWORK SIZES REFER TO THE DUCT RUNOUT SCHEDULE ON AIR DISTRIBUTION SHEETS UNLESS NOTED OTHERWISE. REFER TO THE VAV BRANCH DUCT CONNECTION DETAIL ON SHEET M05.00 FOR ADDITIONAL REQUIREMENTS. FOR BRANCH PIPING SIZES REFER TO THE PIPE RUNOUT SCHEDULE ON HYDRONICS SHEETS UNLESS NOTED OTHERWISE. REFER TO THE VAV PIPING SCHEMATIC ON SHEET M04.02 FOR ADDITIONAL PIPING REQUIREMENTS.
- G. ALL MEP ITEMS SHALL BE SUSPENDED/SUPPORTED FROM THE STRUCTURE.
- H. COORDINATE ALL ROOF PENETRATIONS WITH STRUCTURE. COORDINATE REQUIREMENTS WITH THE STRUCTURAL DOCUMENTS.
- I. COORDINATE ALL ROOF WORK WITH THE ROOFING CONTRACTOR.

KEYNOTES

- M38. INSTALL BOTTOM OF UNIT HEATER AT 10'-0" ABOVE FINISHED FLOOR.
- M43. ROUTE EXHAUST DUCTWORK DOWN TO DRYER AND CONNECT. COORDINATE WITH DRYER MANUFACTURER PRIOR TO FABRICATION OF SHEET METAL. REFER TO THE DETAIL SHEET M05.00 FOR ADDITIONAL REQUIREMENTS. COORDINATE ACCESS WITH THE GENERAL CONTRACTOR AND ARCHITECTURAL DOCUMENTS.
- M44. ROUTE DRYER VENT OUT EXTERIOR WALL AND TERMINATE IN WALL CAP WITH BACKDRAFT DAMPER.
- M49. TERMINATE EXHAUST DUCT OPEN-ENDED AT 10'-0" ABOVE FINISHED FLOOR PROVIDE 1/2" ALUMINUM MESH BIRD-SCREEN AT DUCT TERMINATION. REFER TO THE ENLARGED PLAN ON SHEET M03.01 FOR CONTINUATION OF DUCTWORK.
- M53. EXPOSED ROUND DUCTWORK SHALL BE DOUBLE WALL INSULATED AND PAINTED. ALL ASSOCIATED HANGERS AND SUPPORTS TO BE PAINTED TO MATCH ADJACENT SURFACES. NO DUCT SEALANT TO BE USED ON DUCTWORK TO BE PAINTED. REFER TO ARCHITECTURAL DOCUMENTS FOR PAINTING REQUIREMENTS.
- M55. PROVIDE BRUSHED STAINLESS STEEL ESCUTCHEON AT WALL PENETRATION. PAINT TO MATCH ADJACENT SURFACES. REFER TO THE DETAIL ON SHEET M05.00 FOR ADDITIONAL REQUIREMENTS.
- M56. INSTALL DIFFUSERS AT 45° ANGLE TOWARDS THE FLOOR. REFER TO THE DETAIL ON SHEET M05.00 FOR ADDITIONAL REQUIREMENTS. TYPICAL OF ALL DIFFUSERS INSTALLED ON EXPOSED ROUND DUCTWORK.
- M76. REFER TO OVERALL ROOF MECHANICAL PLAN FOR CONTINUATION OF DUCTWORK.
- M82. REFER TO THE UDS DETAIL ON SHEET M05.00 FOR REQUIREMENTS.
- M84. REFER TO THE SECOND FLOOR AIR DISTRIBUTION PLAN FOR CONTINUATION OF DUCTWORK.
- M103. PROVIDE FACTORY MANUFACTURED GREASE RESERVOIR AT THE BASE OF EACH VERTICAL RISER AND AT ALL LOW POINTS IN THE GREASE DUCT. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
- M104. SLOPE GREASE DUCT TOWARDS SUITABLE COLLECTION POINT. PROVIDE HAND HOLES FOR INSPECTION AND CLEANING IN HORIZONTAL SECTIONS. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

GRD RUNOUT SCHEDULE	
MARK	DUCT BRANCH SIZE
E-1	6" ø
E-1A	6" ø
E-3	10" ø
E-4	12" ø
E-4A	12" ø
E-5	14" ø
R-1	6" ø
R-2	8" ø
R-3	10" ø
R-3B	10" ø
R-4	12" ø
R-4B	12" ø
R-5	14" ø
R-5B	14" ø
R-6	16" ø
R-6B	16" ø
S-1	6" ø
S-1A	6" ø
S-1B	6" ø
S-2	8" ø
S-2B	8" ø
S-3	10" ø
S-3B	10" ø
S-4	12" ø
S-5	8" ø
S-6	10" ø
S-7	12" ø
S-11	10" ø
S-12	10" ø
S-17	12"X8"

VAV DUCT RUNOUT SCHEDULE AHU-1	
TAG	DUCT INLET SIZE
VAV-1-1	10" ø
VAV-1-2	10" ø
VAV-1-3	5" ø
VAV-1-4	8" ø
VAV-1-5	10" ø
VAV-1-6	10" ø
VAV-1-7	6" ø
VAV-1-8	10" ø
VAV-1-9	10" ø
VAV-1-10	10" ø
VAV-1-11	8" ø
VAV-1-12	10" ø
VAV-1-13	10" ø
VAV-1-14	10" ø
VAV-1-15	8" ø
VAV-1-16	8" ø
VAV-1-17	10" ø
VAV-1-18	8" ø
VAV-1-19	10" ø
VAV-1-20	8" ø
VAV-1-21	10" ø
VAV-1-22	10" ø
VAV-1-23	10" ø
VAV-1-24	12" ø
VAV-1-25	10" ø
VAV-1-26	8" ø
VAV-1-27	10" ø



WAKE COUNTY
PUBLIC
SCHOOLS



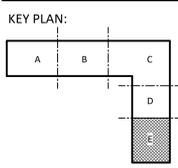
434 FAYETTEVILLE STREET SUITE 1700
RALEIGH, NORTH CAROLINA 27601
TEL. 919.829.2730 FAX. 919.829.2700
WWW.LS3P.COM



2024.04.10
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Swift Creek Elementary School
5601 Tryon Rd Raleigh, NC 27606
LSP PROJECT: 9201-207411

DATE	DESCRIPTION
1 2024-05-01	ADDENDUM #4



SHEET NAME:
FLOOR PLAN -
LEVEL 1 - AREA E -
MECHANICAL

BID SET SUBMISSION: 2024.04.10

SHEET:
M01.01E

BID SET

THESE DIMENSIONS ARE APPROXIMATE AND SUBJECT TO CHANGE WITHOUT NOTICE.

E

D

C

B

A

VAV ID	SOURCE	MANUFACTURER	MODEL #	BOX TYPE	DIMENSIONS					VOLUME CONTROL DAMPER					HOT WATER COIL										REMARKS			
					LENGTH	WIDTH	HEIGHT	INLET	TOTAL A.P.D. @ MAX. CFM	MAX DISCHARGE	MAX RADIATED	MAX CFM	MIN. CFM	PRESSURE INDEPENDENT CONTROLS	LEAKAGE RATE @	CFM	EAT (°F DB)	LAT (°F DB)	EWT (°F)	LWT (°F)	GPM	WATER P.D. (FT.)	HEAT CAPACITY (BTU/H)	HEATING COIL ROWS		RUNOUT PIPE SIZE	3-WAY CONTROL VALVE	
VAV-1-1	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	800	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-2	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-3	AHU-1	ETI	SDR05	VARIABLE VOLUME	26	10	10	6"	0.25 m-wg	15	15	75	45	Yes	0.02	45	55°F	108°F	140°F	121°F	0.3	0.03	3.0	2	3/4"	No	ALL	
VAV-1-4	AHU-1	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	550	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-1-5	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-6	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	800	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-7	AHU-1	ETI	SDR06	VARIABLE VOLUME	22	10	10	6"	0.25 m-wg	15	16	350	100	7	Yes	0.02	100	55°F	92°F	140°F	108°F	0.3	0.02	4.0	2	3/4"	No	ALL
VAV-1-8	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	900	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-9	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-10	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	800	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-11	AHU-1	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	700	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-1-12	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	1050	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-13	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-14	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	800	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-15	AHU-1	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	520	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-1-16	AHU-1	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	700	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-1-17	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	800	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-18	AHU-1	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	700	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	Yes	ALL
VAV-1-20	AHU-1	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	700	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	Yes	ALL
VAV-1-21	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	800	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	Yes	ALL
VAV-1-22	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	Yes	ALL
VAV-1-23	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	900	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	Yes	ALL
VAV-1-24	AHU-1	ETI	SDR12	VARIABLE VOLUME	24	16	13	12"	0.40 m-wg	19	16	1150	420	20	Yes	0.02	420	55°F	93°F	140°F	113°F	1.8	0.24	24.0	2	3/4"	No	ALL
VAV-1-25	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	1025	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-26	AHU-1	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	550	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-1-27	AHU-1	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	650	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-1-28	AHU-2	ETI	SDR06	VARIABLE VOLUME	22	10	10	6"	0.25 m-wg	15	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-3	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	1000	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-4	AHU-2	ETI	SDR06	VARIABLE VOLUME	22	10	10	6"	0.25 m-wg	15	16	200	100	Yes	0.02	100	55°F	92°F	140°F	108°F	0.3	0.02	4.0	2	3/4"	No	ALL	
VAV-2-5	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	800	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-6	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	850	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-7	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-8	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	850	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-9	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-10	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	1000	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-11	AHU-2	ETI	SDR06	VARIABLE VOLUME	22	10	10	6"	0.25 m-wg	15	16	200	100	Yes	0.02	100	55°F	92°F	140°F	108°F	0.3	0.02	4.0	2	3/4"	No	ALL	
VAV-2-12	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	825	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-13	AHU-2	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	600	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-2-14	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	775	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-15	AHU-2	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	550	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-2-16	AHU-2	ETI	SDR06	VARIABLE VOLUME	22	10	10	6"	0.25 m-wg	15	16	600	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-2-17	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-18	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	850	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-19	AHU-2	ETI	SDR12	VARIABLE VOLUME	24	16	13	12"	0.40 m-wg	19	15	1125	580	Yes	0.02	580	55°F	93°F	140°F	113°F	1.8	0.85	24.0	2	3/4"	No	ALL	
VAV-2-20	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	825	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-21	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	850	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-22	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	850	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-23	AHU-2	ETI	SDR08	VARIABLE VOLUME	22	12	10	8"	0.50 m-wg	20	18	600	280	20	Yes	0.02	280	55°F	95°F	140°F	113°F	0.9	0.11	12.0	3	3/4"	No	ALL
VAV-2-24	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	850	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-25	AHU-2	ETI	SDR10	VARIABLE VOLUME	24	14	13	10"	0.40 m-wg	19	16	750	420	20	Yes	0.02	420	55°F	90°F	140°F	111°F	1.1	0.38	16.0	2	3/4"	No	ALL
VAV-2-26	AHU-2	ETI	SDR12	VARIABLE VOLUME	24	16	13	12"	0.40 m-wg	19	15	1125	580	Yes	0.02	580	55°F	93°F	140°F	113°F	1.8	0.85						

THESE DRAWINGS ARE EXACTLY AS SHOWN AND NOT TO BE USED FOR ANY OTHER PROJECT.

E

D

C

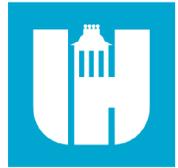
B

A

KEYNOTES

GENERAL NOTES (SECURITY):

- A. REFER TO THE ARCHITECT'S REFLECTED CEILING PLANS, ELEVATIONS, AND CASEWORK DETAILS FOR EXACT LOCATIONS OF ALL WALL AND CEILING MOUNTED ELECTRICAL DEVICES.
- B. REFER TO "SYSTEM INSTALLATION MATRIX" AND SPECIFICATIONS FOR CONTRACTOR REQUIREMENTS OF EACH SYSTEM.
- C. REFER TO CABLING PATH INSTALLATION DETAILS FOR PATHWAY REQUIREMENTS. DO NOT ROUTE OPEN CABLING ABOVE INACCESSIBLE CEILING OR IN FINISHED AREAS WITH NO CEILING.
- D. CABLING REQUIREMENT SHOWN ON PLANS MAY VARY BY MANUFACTURER. COORDINATE EXACT CABLING REQUIREMENTS WITH EQUIPMENT SUPPLIERS.
- E. COORDINATE FINAL PLACEMENT OF ALL BUILDING MOUNTED CCTV CAMERAS WITH ARCHITECT & ENGINEER PRIOR TO INSTALLATION.
- F. COORDINATE PLACEMENT OF DESKTOP MOUNTED SECURITY DEVICES WITH MILLWORK/CASEWORK AND FURNITURE PLANS PRIOR TO INSTALLATION.



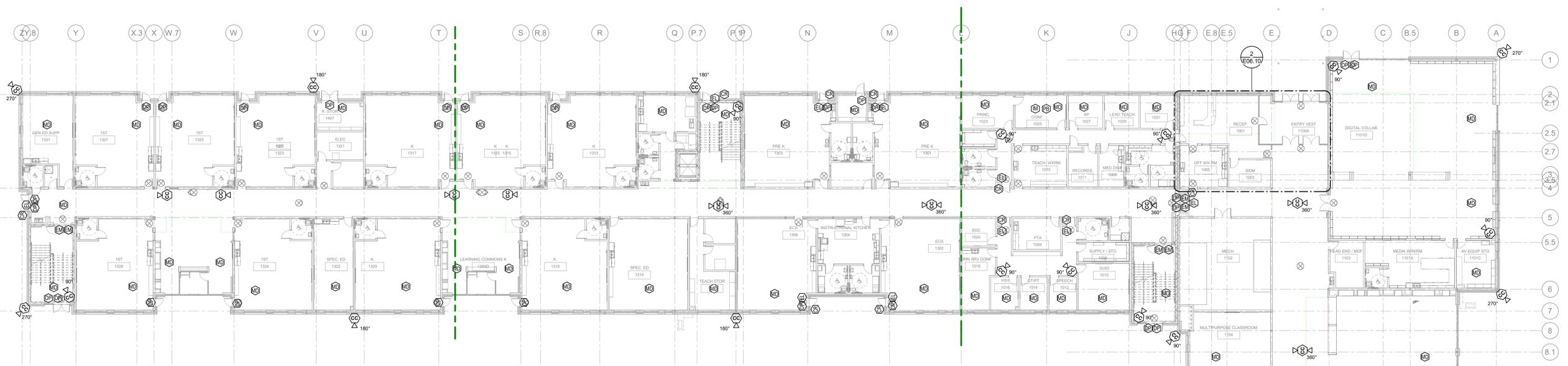
Wake County Public School System



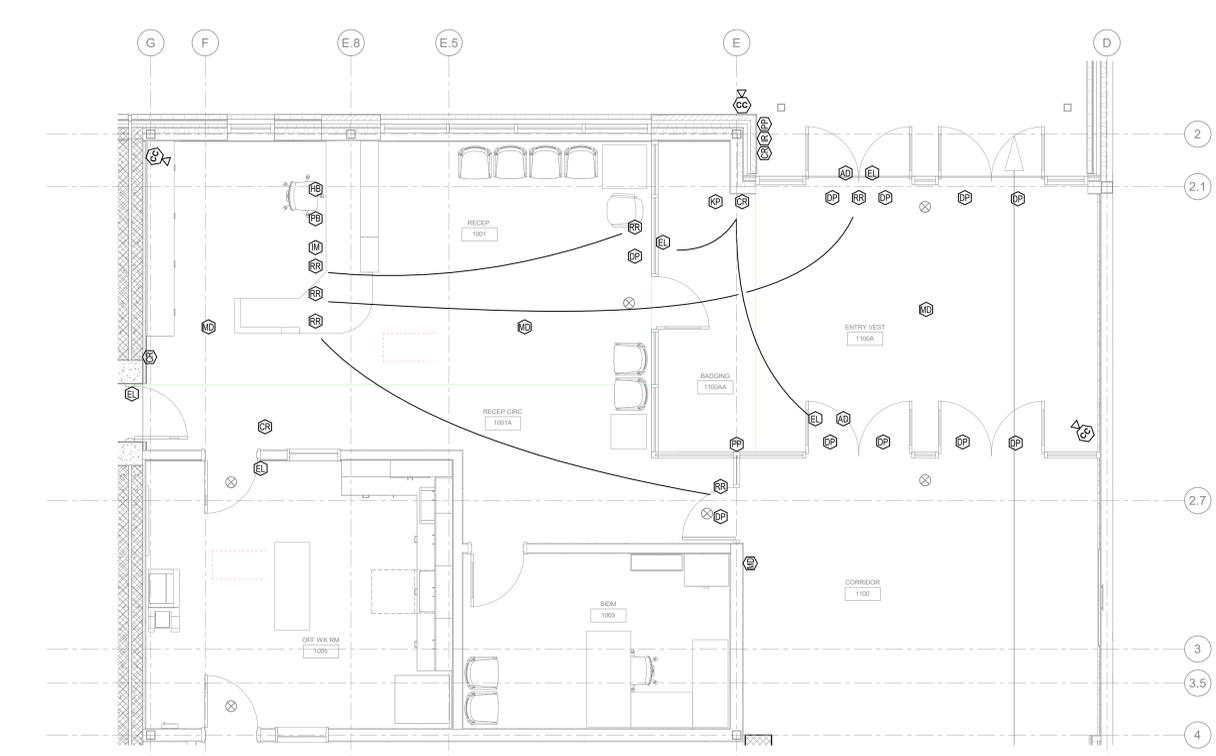
434 FAYETTEVILLE STREET SUITE 1700 RALEIGH, NORTH CAROLINA 27601 TEL. 919.829.2730 FAX. 919.829.2700 WWW.LS3P.COM



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1 LEVEL 1 - SECURITY PLAN SCALE: 1/16" = 1'-0"



2 LEVEL 1 - SECURITY PLAN SCALE: 1/4" = 1'-0"

Swift Creek Elementary School

5601 Tryon Rd Raleigh, NC 27606

LS3P PROJECT: 8201-207411

DATE	DESCRIPTION
1 2024-05-01	ADDENDUM #4

SHEET NAME: LEVEL 1 - SECURITY PLAN

BID SET SUBMISSION: 2024.04.10

SHEET: E06.10

4/30/2024 11:31:33 AM

BID SET

4/30/2024 11:31:37 AM
THE LINE NUMBERS ABOVE THE QUANTITY INDICATE THE PANEL NUMBER.
E
D
C
B
A

SWITCHBOARD AND WIRING SCHEDULE										
SWITCHBOARD: LDP1E			MAINS TYPE: MCB			SCCR (KA): 25				
VOLTAGE: 208Y120V,3P,4W			SPD: No			AVAIL FAULT CURRENT (KA): 8.6				
AMPERES: 800 A			MOUNTING: SURFACE			SUPPLY FROM: T-LDPIE				
CKT	CIRCUIT DESCRIPTION	SETS	WIRE	GND	COND	POLES	FRAME	TRIP	Load	REMARKS
1	LK	1	(4) #300 KCMIL	#1	2-1/2"	3	250 A	225 A	28.5	
2	UBS - KITCHEN 1202	1	(4) #300 KCMIL	#1	2-1/2"	3	250 A	225 A	23.9	
3	LR1C	1	(4) #30	#3	2"	3	200 A	150 A	23.6	
4	LR1E-1	1	(4) #300 KCMIL	#1	2-1/2"	3	250 A	225 A	50.5	
5	LR1E-2	1	(4) #30	#3	2"	3	200 A	150 A	35.0	
6	SPARE	--	--	--	--	3	--	100 A	0.0	
7	SPARE	--	--	--	--	3	--	100 A	0.0	
8	SPARE	--	--	--	--	3	--	50 A	0.0	
9	SPARE	--	--	--	--	3	--	50 A	0.0	
10	SPD	--	--	--	--	3	--	60 A	0.0	
LOAD CLASSIFICATION					PANEL TOTALS					
EQUIP	30460 VA	100.00%	30460 VA	TOTAL CONNECTED LOAD: 158 kVA						
HVAC	36442 VA	100.00%	36442 VA	TOTAL ESTIMATED DEMAND: 125 kVA						
KITCH	38980 VA	65.00%	25337 VA	TOTAL CONNECTED CURRENT: 438 A						
LTNG	627 VA	100.00%	627 VA	TOTAL ESTIMATED DEMAND CURRENT: 348 A						
Motor	1200 VA	100.00%	1200 VA							
REC	47504 VA	60.52%	28762 VA							
EQUIP - MISC	2500 VA	100.00%	2500 VA							
NOTES:										

PANELBOARD AND WIRING SCHEDULE																	
PANEL: LR1C			MAINS TYPE: MCB			SCCR (KA): 10											
VOLTAGE: 208Y120V,3P,4W			SPD: No			AVAIL FAULT CURRENT (KA): 2.9											
AMPERES: 150 A			MOUNTING: SURFACE			SUPPLY FROM: LDPIE											
CIRCUIT DESCRIPTION	N WIRE	GND	C	OC	P	CKT	A	B	C	CKT	P	OC	C	GND	WIRE	N	CIRCUIT DESCRIPTION
REC - MECH 1102	20	1	1	0.5	1.1					2	1	20					REC - CORRIDOR 1100
REC - CORRIDOR 1100	20	1	3				0.5	1.1		4	1	20					REC - MEDIA WKRM 1101A
REC - MEDIA WKRM 1101A	20	1	5						0.9	0.9	6	1	20				REC - AV EQUIP STORAGE
REC - MEDIA CENTER 1101	20	1	7	1.1	0.7						8	1	20				REC - MEDIA CENTER 1101
REC - MEDIA CENTER 1101	20	1	9				1.1	0.7			10	1	20				REC - MEDIA CENTER 1101
REC - COLLAB 1101D	20	1	11						0.7	1.1	12	1	20				REC - COLLAB 1101D
REC - MEDIA CENTER 1101	20	1	13	1.4	0.4						14	1	20				REC - WP
REC - MEDIA CENTER 1101	20	1	15				0.7	0.7			16	1	20				REC - MEDIA CENTER 1101
EF-3	20	1	17						1.0	0.2	18	1	20				VAV CONTROL PANELS
TOP	20	1	19	0.5	0.2						20	1	20				VAV CONTROL PANELS
SEC-C H.E.INDF 1103	20	1	21				0.5	0.2			22	1	20				VAV CONTROL PANELS
SEC-C HEAD END/INDF 1103	20	1	23						0.5	1.0	24	1	20				POWER SHADES - MEDIA 1101
SEC-P HEAD END/INDF 1103	20	1	25	0.5	1.0						26	1	20				POWER SHADES - MEDIA 1101
POWER SHADES - MEDIA 1101	20	1	27				0.0	1.1			28	1	20				REC - MEDIA CENTER 1101
SPARE	20	2	29				1.2	1.1			30	1	20				REC - MEDIA CENTER 1101
UH-1 MECH 1102	20	2	31	1.2	0.0						32	1	20				SPARE
SPARE	20	1	33				0.0	0.0			34	1	20				SPARE
SPARE	20	1	35				0.0	0.0			36	1	20				SPARE
SPARE	20	1	37	0.0	0.0						38	1	20				SPARE
SPARE	20	1	39				0.0	0.0			40	1	20				SPARE
SPARE	20	1	41				0.0	0.0			42	1	20				SPARE
SPARE	20	1	43	0.0	0.0						44	1	20				SPARE
SPARE	20	1	45				0.0	0.0			46	1	20				SPARE
SPARE	20	1	47				0.0	0.0			48	1	20				SPARE
SPARE	20	1	49	0.0	0.0						50	1	20				SPARE
SPARE	20	1	51				0.0	0.0			52	1	20				SPARE
SPARE	20	1	53				0.0	0.0			54	1	20				SPARE
SPARE	20	1	55	0.0	0.0						56	1	20				SPARE
SPARE	20	1	57				0.0	0.0			58	1	20				SPARE
SPARE	20	1	59				0.0	0.0			60	1	20				SPARE
TOTAL LOAD (KVA):			8.6 kVA	6.6 kVA	8.5 kVA												
TOTAL CURRENT (A):			74 A	55 A	73 A												
LOAD CLASSIFICATION					PANEL TOTALS												
EQUIP	3000 VA	100.00%	3000 VA	TOTAL CONNECTED LOAD: 24 kVA													
HVAC	4540 VA	100.00%	4540 VA	TOTAL ESTIMATED DEMAND: 21 kVA													
REC	14580 VA	94.29%	12290 VA	TOTAL CONNECTED CURRENT: 86 A													
EQUIP - MISC	1500 VA	100.00%	1500 VA	TOTAL ESTIMATED DEMAND CURRENT: 59 A													
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.																	
1. PROVIDE G.F.C.I. TYPE CIRCUIT BREAKER.																	

PANELBOARD AND WIRING SCHEDULE																	
PANEL: LR1E-1			MAINS TYPE: MLO			SCCR (KA): 10											
VOLTAGE: 208Y120V,3P,4W			SPD: No			AVAIL FAULT CURRENT (KA): 7.0											
AMPERES: 225 A			MOUNTING: SURFACE			SUPPLY FROM: LDPIE											
CIRCUIT DESCRIPTION	N WIRE	GND	C	OC	P	CKT	A	B	C	CKT	P	OC	C	GND	WIRE	N	CIRCUIT DESCRIPTION
REC - CLASSROOM 1104	20	1	1	0.9	0.9					2	1	20					REC - CLASSROOM 1104
REC - COMMONS 1100B	20	1	3				1.1	0.4			4	1	20				REC - ART 1106
REC - ART 1106	20	1	5						0.7	0.7	6	1	20				REC - ART 1106
REC - RAIP 1105A	20	1	7	0.7	0.9						8	1	20				REC - PLATFORM 1105B
REC - CHR STO / DRESS 1105C	20	1	9				0.4	1.1			10	1	20				REC - PLAY 1105
REC - KILN 1106B	20	1	11						0.7	0.9	12	1	20				REC - MUSIC 1108
REC - MUSIC 1108	20	1	13	0.9	0.9						14	1	20				REC - PE OFF 1109F
REC - PE STO 1109E	20	1	15				0.4	1.1			16	1	20				REC - RECEIVING 1203
REC - CUST 1203C	20	1	17				0.4	1.1	1.8		18	1	20				REC - MING OFF 1203D
REC - DINING 1201	20	1	19	0.9	0.7						20	1	20				REC - DINING 1201
REC - CORRIDOR 1100	20	1	21				0.5	0.5			22	1	20				REC - CORRIDOR 1100
REC - ELEC 1401	20	1	23						0.7	0.9	24	1	20				REC - CORRIDOR 1100
EF-1 IT 1203A	20	1	25	0.7	0.7						26	1	20				EF-2 KILN 1106B
REC - EXTERIOR	20	1	27				1.1	0.5			28	1	20				REC - EXTERIOR
REC - EXTERIOR	20	1	29						0.7	0.9	30	1	20				REC - EXTERIOR
REC - RESTROOMS	20	1	31	0.4	0.5						32	1	20				PROJECTOR - PLATFORM
MOTOR SCREEN - PLATFORM	20	1	33				0.5	1.1			34	1	20				REC - DINING 1201
SCOREBOARD - PLAY 1105	20	1	35						0.5	0.5	36	1	20				REC - DINING ROOM
GOAL BACKBOARD - 1105	20	1	37	1.0	1.5						38	1	20				POWER SHADES - DINING 1201
GOAL BACKBOARD - 1105	20	1	39				1.0	0.7			40	1	20				REC - KILN FAN
GOAL BACKBOARD - 1105	20	1	41						1.0	3.7	42						
GOAL BACKBOARD - 1105	20	1	43	1.0	3.7				0.4	3.7	44	3	40	3/4"	#10	#8	KILN
REC - PLATFORM 1105B	20	1	45				0.4	3.7			46						
PLATFORM LTG	20	1	47						0.3	0.5	48	1	20				SEC-M IT 1203A
PLATFORM LTG	20	1	49	0.2	0.5						50	1	20				SEC-C IT 1203A
PLATFORM LTG	20	1	51				0.2	0.4			52	1	20				REC - ART 1106
SOUND EQUIPMENT	20	1	53						0.4	1.0	54	1	20				CONTRACTOR CABINET
SOUND EQUIPMENT	20	1	55	0.4	1.0						56	1	20				CONTRACTOR CABINET
PRESET STATION	20	1	57				0.2	1.2			58	1	20				MOTORIZED DOOR
EQUIP	20	1	59				0.5	0.0			60	1	20				SPARE
SPARE	20	1	61	0.0	0.0						62	1	20				SPARE
SPARE	20	1	63				0.0	0.0			64	1	20				SPARE
SPARE	20	1	65						0.0	0.0	66	1	20				SPARE
SPARE	20	1	67	0.0	0.0						68	1	20				SPARE
SPARE	20	1	69				0.0	0.0			70	1	20				SPARE
SPARE	20	1	71						0.0	0.0	72	1	20				SPARE
SPARE	20	1	73	0.0	0.0						74	1	20				SPARE
SPARE	20	1	75				0.0	0.0			76	1	20				SPARE
SPARE	20	1	77						0.0	0.0	78	1	20				SPARE
SPARE	20	1	79	0.0	0.0						80	1	20				SPARE
SPARE	20	1	81				0.0	0.0			82	1	20				SPARE
SPARE	20	1	83				0.0	0.0			84	1	20				SPARE
TOTAL LOAD (KVA):			18.3 kVA	16.2 kVA	16.1 kVA												
TOTAL CURRENT (A):			152 A	135 A	134 A												
LOAD CLASSIFICATION					PANEL TOTALS												
EQUIP	2020 VA	100.00%	2020 VA	TOTAL CONNECTED LOAD: 49 kVA													
HVAC	1400 VA	100.00%	1400 VA	TOTAL ESTIMATED DEMAND: 42 kVA													
KITCH	180 VA	100.00%	180 VA	TOTAL CONNECTED CURRENT: 135 A													
LTNG	627 VA	100.00%	627 VA	TOTAL ESTIMATED DEMAND CURRENT: 115 A													
Motor	1200 VA	100.00%	1200 VA														
REC	23920 VA	70.90%	6960 VA														
EQUIP - MISC	1000 VA	100.00%	1000 VA														
NOTES: WHERE NOT LISTED, WIRE AND CONDUIT SHALL BE MINIMUM PER SPECIFICATIONS. SPARE BREAKERS TO BE 20A/1P.																	
1. PROVIDE G.F.C.I. TYPE CIRCUIT BREAKER.																	

PANELBOARD AND WIRING SCHEDULE																	
PANEL: LR1E-2			MAINS TYPE: MLO			SCCR (KA): 10											
VOLTAGE: 208Y120V,3P,4W			SPD: No			AVAIL FAULT CURRENT (KA): 7.0											
AMPERES: 150 A			MOUNTING: SURFACE			SUPPLY FROM: LDPIE											
CIRCUIT DESCRIPTION	N WIRE	GND	C	OC	P	CKT	A	B	C	CKT	P	OC	C	GND	WIRE	N	CIRCUIT DESCRIPTION
UH-1 EMERG EL 1401A	20	2	1	1.2	2.0					2	2	30	3/4"	#10	#10		UH-2 ELEC 1401
UH-2 - BOILER 1403	20	2	5						2.0	1.0	6	1	20				BAS PANELS - BOILER 1403
BOILER-2	20	1	7	2.0	1.6				1.6	0.5	8	1	20				BOILER-1
UH-1 - SPRINKLER RISER 1404	20	2	13	1.2	0.5				1.2	1.8	12	1	20				REC - BOILER 1403
UH-1 - PE STOR 1406	20	2	15														