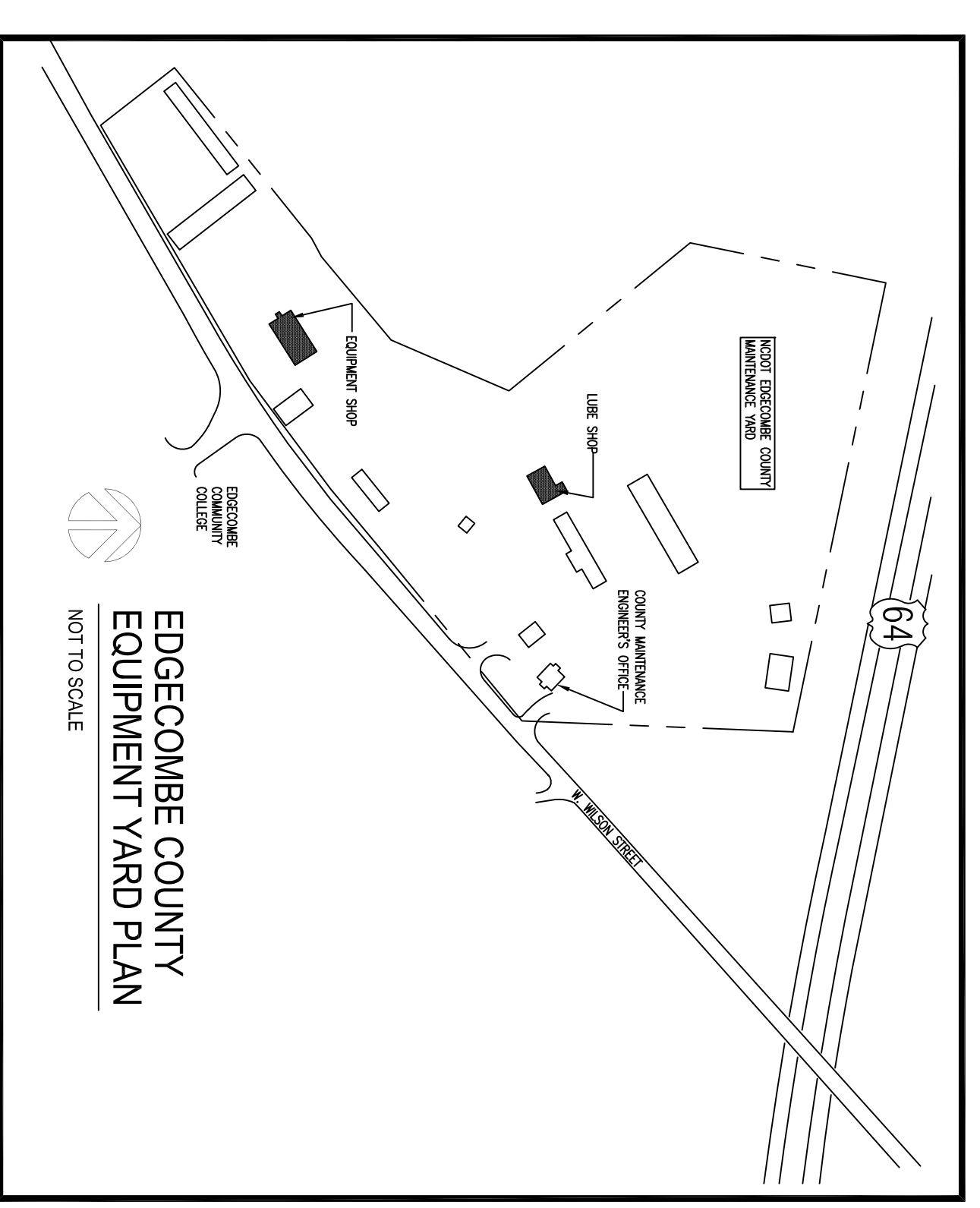


REPAIRS TO NCDOT EDGECOMBE COUNTY EQUIPMENT AND LUBE SHOPS

NC DEPT OF TRANSPORTATION, HIGHWAY DIVISION 4 COUNTY MAINTENANCE YARD, EDGECOMBE COUNTY, NC 2008 W. WILSON STREET, TARBORO, NC 27886

ARCHITECT: **STRUCTURAL ENGINEER:**
FACILITIES DESIGN UNIT
ROSS LINDEN ENGINEERS PC
NCDOT FACILITIES MANAGEMENT DIVISION
709 W. JONES STREET
1 SOUTH WILMINGTON STREET
RALEIGH, NC 27603

EQUIPMENT SHOP: CODE DATA SUMMARY



2018 APPENDIX B BUILDING CODE SUMMARY FOR ALL COMMERCIAL PROJECTS (EXCEPT LAND-2-FAMILY DWELLINGS AND TOWNHOUSES)

Name of Project: **EDGECOMBE COUNTY EQUIPMENT SHOP** ZONING CODE: **2008**
Address: **2008 W. WILSON STREET, TARBORO, NORTH CAROLINA**
Owner/Authorized Agent: **ROSS L. LINDEEN, P.E.** Phone: **(919) 707-4540** E-MAIL: **ross@rosslinden.com**
Code Enforcement Jurisdiction: City County State

CONTRACT: **WORK B. 082818.NC** NAME: **LENDING #** TELEPHONE # **844**
RESOURCES: **TRIAL** ARCHITECT: **ROSS LINDEN ENGINEERS PC** PROJECT # **1801** PROJECT TYPE **RENOVATION**
Architectural: **ROSS LINDEN ENGINEERS PC** NAME: **ROSS LINDEN ENGINEERS PC** PHONE: **(919) 707-4540** FAX: **(919) 707-4540**
Civil: **ROSS LINDEN ENGINEERS PC** NAME: **ROSS LINDEN ENGINEERS PC** PHONE: **(919) 707-4540** FAX: **(919) 707-4540**
Electrical: **ROSS LINDEN ENGINEERS PC** NAME: **ROSS LINDEN ENGINEERS PC** PHONE: **(919) 707-4540** FAX: **(919) 707-4540**
Mechanical: **ROSS LINDEN ENGINEERS PC** NAME: **ROSS LINDEN ENGINEERS PC** PHONE: **(919) 707-4540** FAX: **(919) 707-4540**
Plumbing: **ROSS LINDEN ENGINEERS PC** NAME: **ROSS LINDEN ENGINEERS PC** PHONE: **(919) 707-4540** FAX: **(919) 707-4540**
Structural: **ROSS LINDEN ENGINEERS PC** NAME: **ROSS LINDEN ENGINEERS PC** PHONE: **(919) 707-4540** FAX: **(919) 707-4540**
Other: **ROSS LINDEN ENGINEERS PC** NAME: **ROSS LINDEN ENGINEERS PC** PHONE: **(919) 707-4540** FAX: **(919) 707-4540**

EXISTING - NO CHANGE

NO. 1	NO. 2	NO. 3	NO. 4	NO. 5	NO. 6	NO. 7	NO. 8	NO. 9	NO. 10
1	2	3	4	5	6	7	8	9	10

ALLOWABLE HEIGHT

Building Height in Stories (Table 504.2.1)	ALLOWABLE	REVISIONS/NOTES	CODE REFERENCE
1	40		21

ACCESSIBLE DWELLING UNITS (SECTION 1107)

NOT APPLICABLE

TOTAL UNITS	TYPE A	TYPE B	TYPE C	TOTAL UNITS
0	0	0	0	0

ACCESSIBLE PARKING (SECTION 1108)

TOTAL REQUIRED	TOTAL PROVIDED	TOTAL UNITS	TOTAL UNITS
0	0	0	0

PLUMBING FIXTURE REQUIREMENTS (TABLE 503)

USE	WATER FIXTURES	SEWERS	SOIL	WATER	SEWERS	SOIL	WATER	SEWERS
OFFICE								

SPECIAL APPROVALS

Special approval: (Local Jurisdiction, Department of Insurance, OIG, DPH, DHS, etc., describe below)

STRUCTURAL DESIGN (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)

DESIGN LOADS: (PROVIDE ON THE STRUCTURAL SHEETS IF APPLICABLE)
Impermeable Floors: Snow (S) 12
Live Loads: Roof 20
Medicines 100
Overhead Beam Loads: 15
Wind Loads: Ultimate Wind Speed 6
Exposure Category C
SEISMIC DESIGN CATEGORY: A B C D
Provide Seismic Design Parameters: I, II, III, IV
Special Response Acceleration: S₁ 0.1 S₂ 0.15 S₃ 0.2
Site Classification (ASCE 7): A B C D E F
Data Source: Field Test: Prescriptive: Historical Data
Basic structural system: Field Test: Prescriptive: Historical Data
Analysis Procedure: Architectural, Mechanical, Components analyzed? Simplified Equivalent Lateral Force Dynamic
LATERAL DESIGN CONTROL: Earthquake Wind
900L REPAIRING CAPACITIES: Field Test (provide copy of test report) 1500
Prescriptive Shear Capacity 1500
Per ASCE 7, and Appendix

ELECTRICAL DESIGN (PROVIDE ON THE ELECTRICAL SHEETS IF APPLICABLE)

ELECTRICAL SYSTEM AND EQUIPMENT
Method of Compliance: Energy Code Prescriptive
ASHRAE 90.1 Performance Prescriptive
Lighting: (provide details for each fixture type)
Additional Reference: (provide code for ASHRAE 90.1)
Code 2: Most Efficient HVAC Equipment Performance
Code 3: Reduced Lighting Power Density
Code 4: Demand Controlled Ventilation
Code 5: On-Site Renewable Energy
Code 6: Dedicated Outdoor Air System
Code 7: Reduced Energy Use in Service Water Heating

ELECTRICAL SUMMARY EXISTING - NO CHANGE

ITEM	DESCRIPTION	STATUS
1	2	3

DRAWING INDEX

- G1 EQUIPMENT SHOP - CODE DATA SUMMARY & LOCATION MAPS
- G2 LUBE SHOP - CODE DATA SUMMARY
- S1 EQUIPMENT SHOP RENOVATION PLAN
- S2 LUBE SHOP RENOVATION PLAN & DETAILS
- A1 EQUIPMENT SHOP & LUBE SHOP - FOUNDATION REPAIR PLANS
- A2 EQUIPMENT SHOP & LUBE SHOP - ROOFING REPLACEMENT PLANS & DETAILS

ENERGY REQUIREMENTS: ENERGY SIMULAN

The following data shall be considered minimum and any special attributes required to meet the energy code shall be provided. If performance method, state the annual energy cost for the simulated design.
Existing building envelope complies with code: No Yes (If the number of the section is not applicable)
Exempt building: No Yes (Provide code or authority reference):
Climate Zone: A A4 A5
Method of Compliance: Energy Code Prescriptive
ASHRAE 90.1 Performance Prescriptive
(If "Other" specify source here):

MECHANICAL DESIGN (PROVIDE ON THE MECHANICAL SHEETS IF APPLICABLE)

MECHANICAL SYSTEMS, SERVICE SYSTEMS AND EQUIPMENT
MECHANICAL SUMMARY
Thermal Zone: winter dry bulb: summer dry bulb: relative humidity:
Building heating load:
Building cooling load:
Mechanical Space Conditioning System
Utility: heating efficiency: cooling efficiency: heating energy: cooling energy: fan energy: blower: Size strategy: Inverters: state reason:
Size strategy: Inverters: state reason:
List equipment efficiencies:

MECHANICAL SUMMARY EXISTING - NO CHANGE

ITEM	DESCRIPTION	STATUS
1	2	3

PERF PROTECTION REQUIREMENTS

PERF PROTECTION	REPAIR	REPAIR	REPAIR	REPAIR	REPAIR	REPAIR	REPAIR	REPAIR	REPAIR
1	2	3	4	5	6	7	8	9	10

PERCENTAGE OF WALL OPENING CALCULATIONS

PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING
1	2	3	4	5	6	7	8	9	10

PERCENTAGE OF WALL OPENING CALCULATIONS

PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING
1	2	3	4	5	6	7	8	9	10

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PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING
1	2	3	4	5	6	7	8	9	10

PERCENTAGE OF WALL OPENING CALCULATIONS

PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING	PERCENTAGE OF WALL OPENING
1	2	3	4	5	6	7	8	9	10

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
RENOVATION: (also) Current Proposed Change of Use
RISK CATEGORY (Table 1004.3): Proposed: I II III IV

2018 NC BUILDING CODE: New Building Addition Rehabilitation
 Substructure First Interior Completion
 Substructure Complete Partial
possible additional procedures and requirements

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
RENOVATION: (also) Current Proposed Change of Use
RISK CATEGORY (Table 1004.3): Proposed: I II III IV

2018 NC EXISTING BUILDING CODE: EXISTING: Prescriptive Repair Chapter 14
RENOVATION: (also) Current Proposed Change of Use
RISK CATEGORY (Table 1004.3): Proposed: I II III IV

Repairs to NCDOT Edgemcombe County Equipment and Lube Shops
NCDOT HIGHWAY DIVISION 4
2008 W. WILSON STREET, TARBORO, NC 27886

DATE ISSUED: 9/3/2021
DRAWN BY: MDG
CHECKED BY: MDG
SHEET NO. G1

FOR BIDS: MARK DOUGLAS GILSON, REGISTERED ARCHITECT, No. 5121, N.C. ARCHITECTS, INC. (N.C. ARCHITECT # 10000)

NCDOT FACILITIES DESIGN UNIT
ARCHITECT & ENGINEERS
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE: 919/707-4540 FAX: 919/715-0399

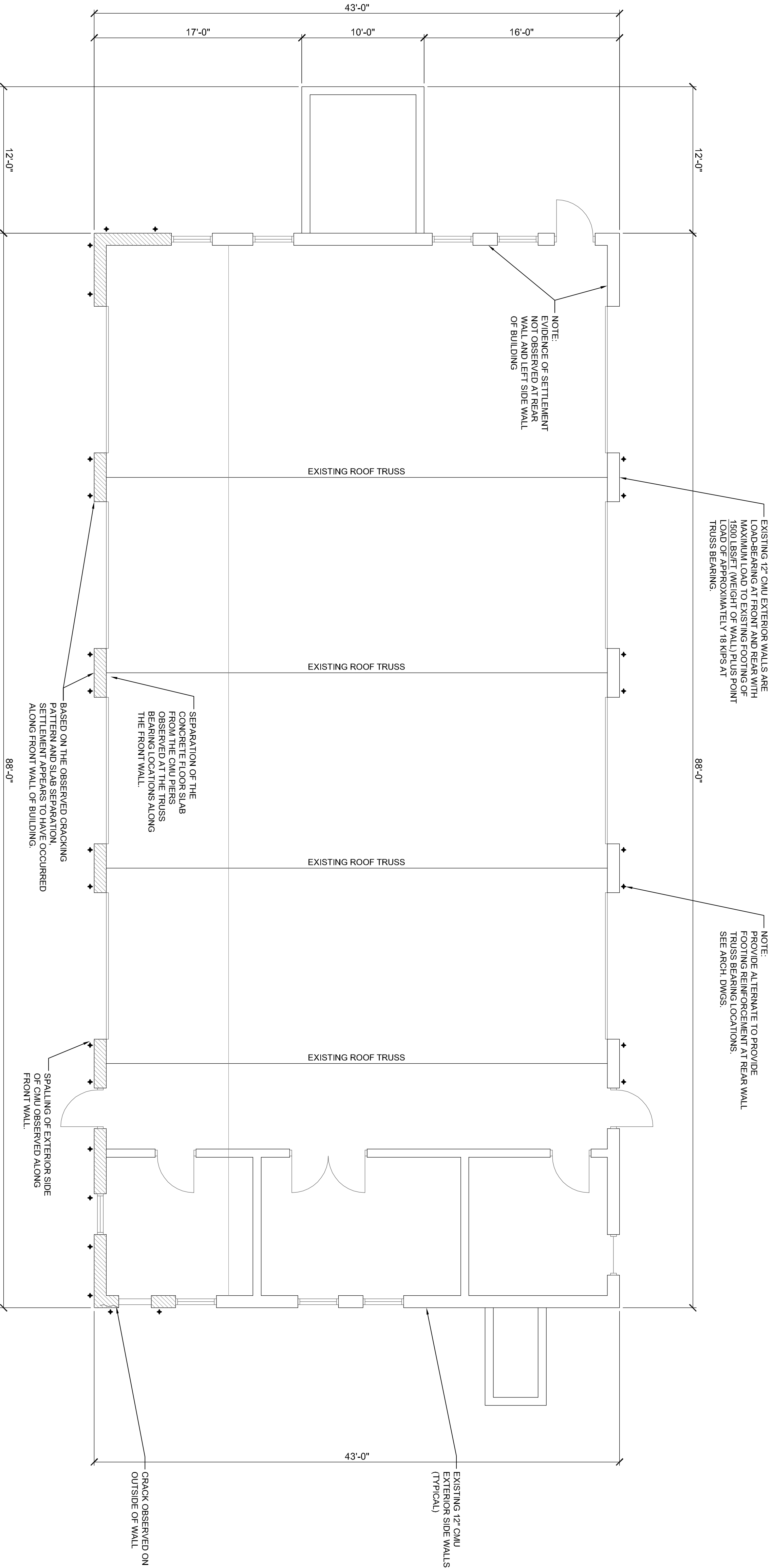
PROJECT SUMMARY:

THE GENERAL CONTRACTOR (GC) SHALL PROVIDE SPECIALIZED SERVICES FOR FOUNDATION REPAIR AS INDICATED ON THE DRAWINGS. THE SPECIALIZED FOUNDATION REPAIR SHALL BE PROVIDED BY A SPECIALIZED FOUNDATION REPAIR SPECIALIST WITH EXPERIENCE IN THE REPAIR OF DAMAGED BUILDING FOUNDATIONS.

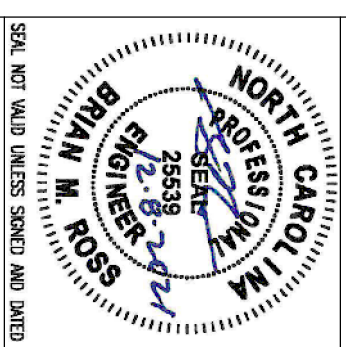
THE GC SHALL ALSO BE RESPONSIBLE FOR THE REPAIR OF EXISTING CMU WALLS AS INDICATED ON THE DRAWINGS, AND FOR THE REPAIR OF EXISTING CONCRETE FLOOR SLAB SURFACES. THE GC SHALL BE RESPONSIBLE FOR THE REPAIR OF THE EXISTING PAVEMENT AS INDICATED ON DETAIL 2552.

REPAIR NOTES:

1. PROVIDE FOOTING REINFORCEMENT AT SHADED AREAS. REINFORCEMENT SHALL CONSIST OF HELICAL ANCHORS PROVIDED BY FOUNDATION REPAIR SPECIALIST WITH BRACKET ATTACHMENT TO THE EXISTING CONCRETE WALL FOOTING. NOTE THAT APRON SLAB IS TO BE REPLACED. SEE DETAILS ON SHEET 152.
 2. MAXIMUM SPACING OF HELICAL ANCHORS SHALL BE APPROXIMATELY 4'-0" BASED ON THE ASSUMED FOOTING DIMENSIONS.
 3. AFTER INSTALLATION OF ANCHORS, REPAIR EXISTING CRACKS IN CMU WALLS. REPOINT MORTAR JOINTS AND FILL JOINTS SOLID. SEAL ANY CRACKS EXTENDING THROUGH CMU BLOCKS (SEAL ON EACH SIDE OF WALL, WHEREVER CRACKS ARE VISIBLE). PROVIDE A FLEXIBLE SEALANT OR POLYURETHANE FOAM INJECTION. PROVIDE SAMPLE FOR OWNER REVIEW AND APPROVAL PRIOR TO REPAIR.
 4. DUE TO SETTLEMENT OF WALLS, IT IS POSSIBLE THAT VOIDS EXIST BENEATH THE EXISTING CONCRETE FLOOR SLAB. THE PRESENCE OF VOIDS COULD LEAD TO FURTHER CRACKING OF THE BUILDING STRUCTURE OVER TIME.
- BASE BID:**
FOUNDATION REPAIR CONTRACTOR SHALL DRILL EXPLORATORY HOLES ALONG THE FRONT WALL OR AS HE RECOMMENDS TO DETERMINE IF VOIDS EXIST BENEATH THE CONCRETE FLOOR SLAB. THE CONTRACTOR SHALL PROVIDE A REPORT WITH PHOTOGRAPHS AND RECOMMENDATIONS. PATCH THE EXPLORATORY HOLES TO MATCH THE ADJACENT CONCRETE.
- ALTERNATE NO. 3 (SEE ARCH. DWGS.):**
IF VOIDS UNDER THE CONCRETE FLOOR SLAB ARE DETECTED, FOUNDATION REPAIR CONTRACTOR SHALL PROVIDE AN INJECTION OF FLOWABLE MATERIAL TO FILL THE VOIDS WITH THE INTENT TO LIMIT THE LIKELIHOOD OF FUTURE SETTLEMENT AND CRACKING. INJECTION MATERIAL AND METHOD SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO REPAIR. THE CONTRACTOR SHALL PROVIDE A REPORT WITH PHOTOGRAPHS AND RECOMMENDATIONS. PATCH THE FLOWABLE MATERIAL SHALL NOT BE LESS THAN 2000 PSI, ESTIMATED VOLUME OF MATERIAL 72 CUBIC FEET, CORRESPONDING TO A 1" VOID OVER THE LENGTH OF THE BUILDING, EXTENDING APPROXIMATELY 10 FT INTO THE BUILDING.

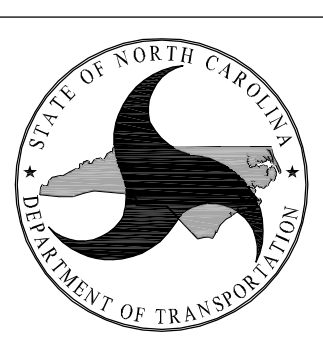


1 PLAN - EQUIPMENT SHOP
3/16" = 1'-0"



DESIGNED BY:
FACILITIES DESIGN ARCHITECTS & ENGINEERS
 FACILITIES MANAGEMENT DIVISION, NCDOT

1 SOUTH WILMINGTON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX 919/775-0399



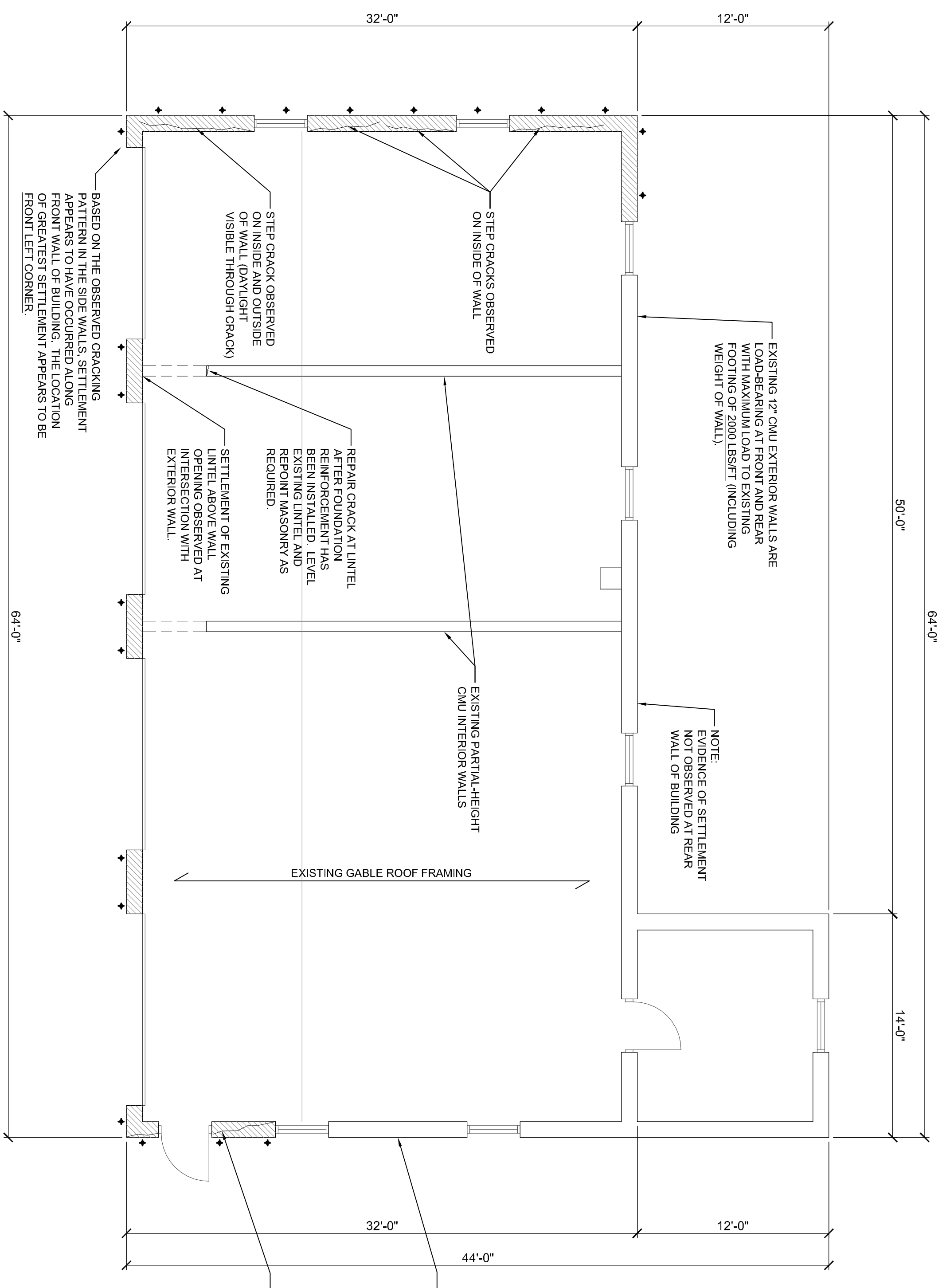
CONSULTANT:
ROSS LINDEN ENGINEERS PC
 709 W. BONNS STREET, RALEIGH, NC, 27603
 TEL 919.832.5680 FAX 919.832.5673
 WWW.ROSSLINDEN.COM NC LICENSE NO. C-2164

DRAWING TITLE / DESCRIPTION:
LUBE SHOP RENOVATION PLAN AND DETAILS

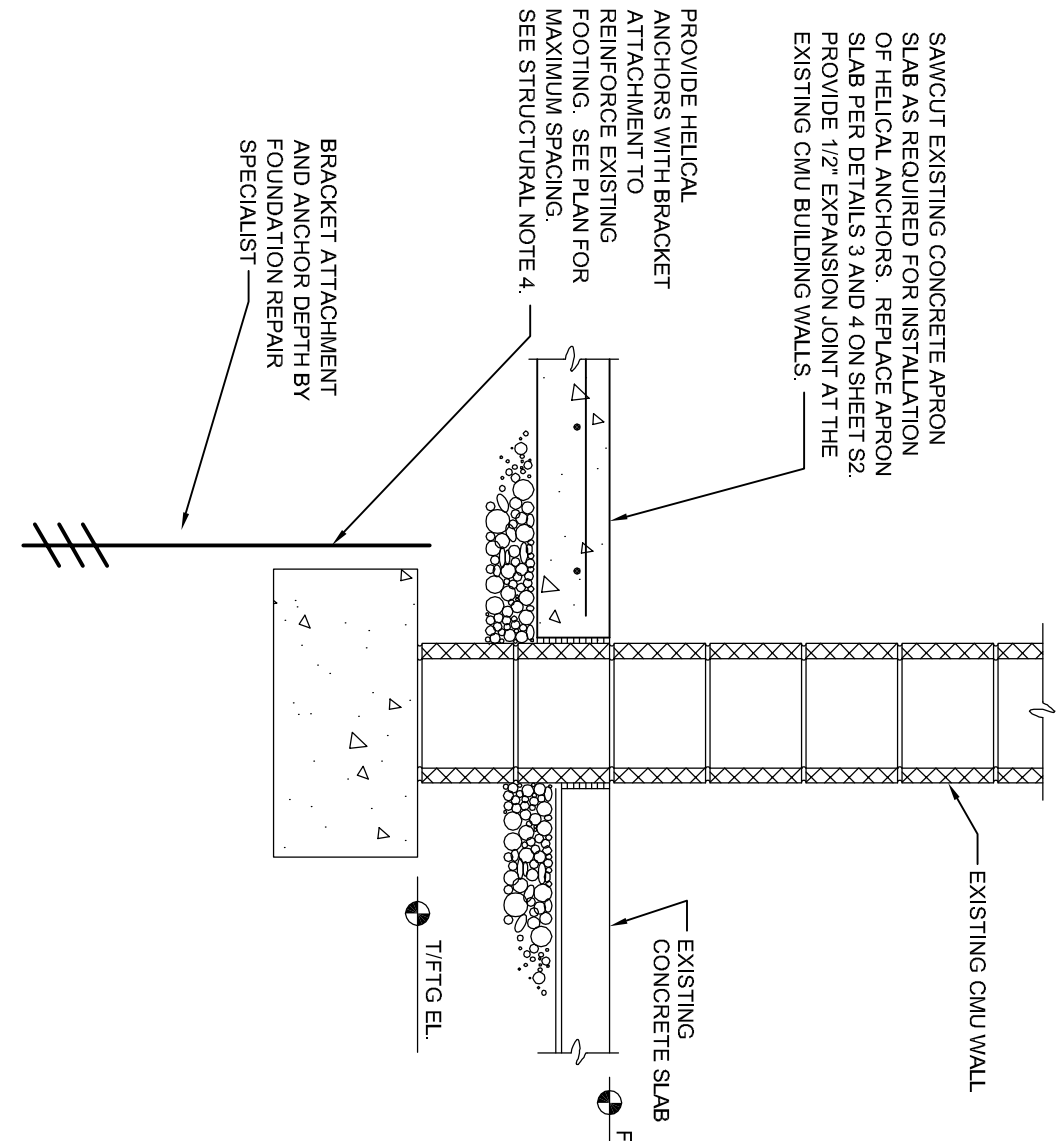
NCDOT HIGHWAY DIVISION 4
 2008 W. WILSON STREET, TARBORO, NC 27886

DATE ISSUED: 12/8/2021	DRAWN BY: GR
CHECKED BY: BR	SHEET NO.
PROJECT NUMBER: 08-02-00	DATE
STATE CONSTRUCTION ID# 20-21659-01A	

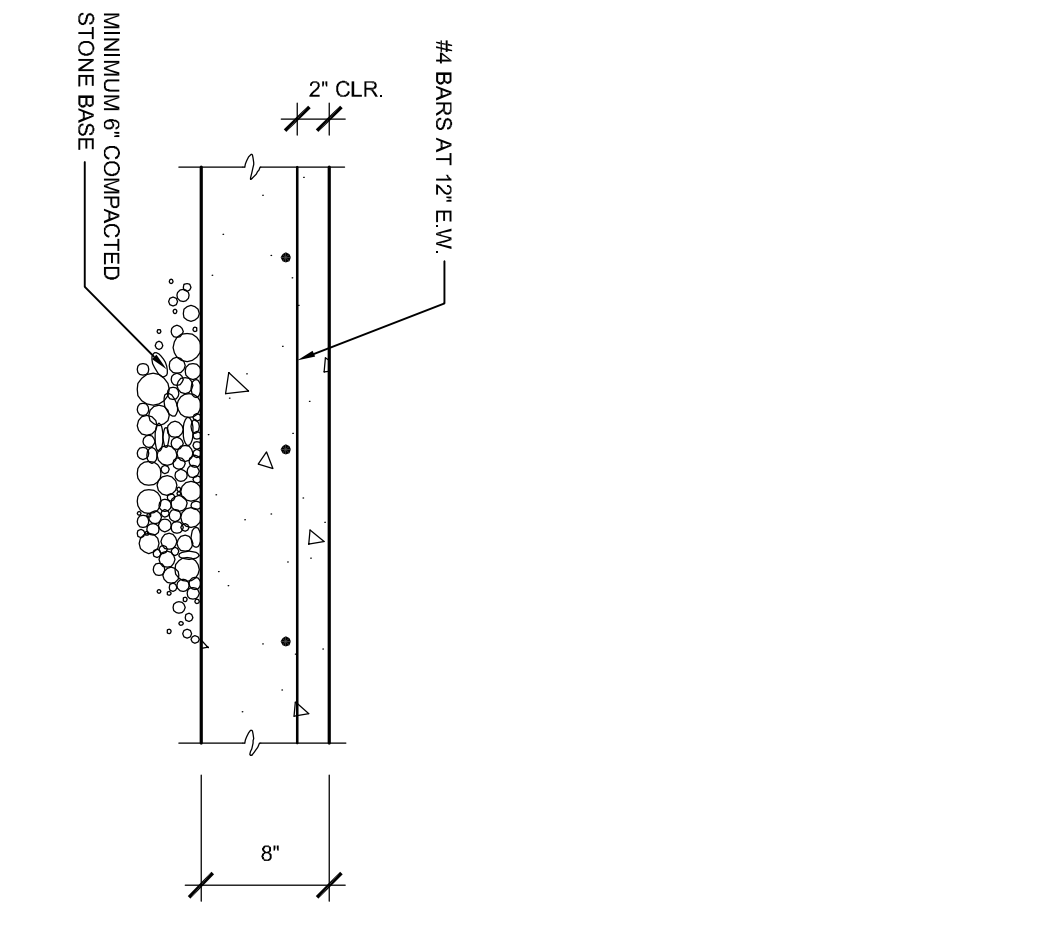
Foundation Repairs to NCDOT Edgecombe County Equipment and Lube Shops



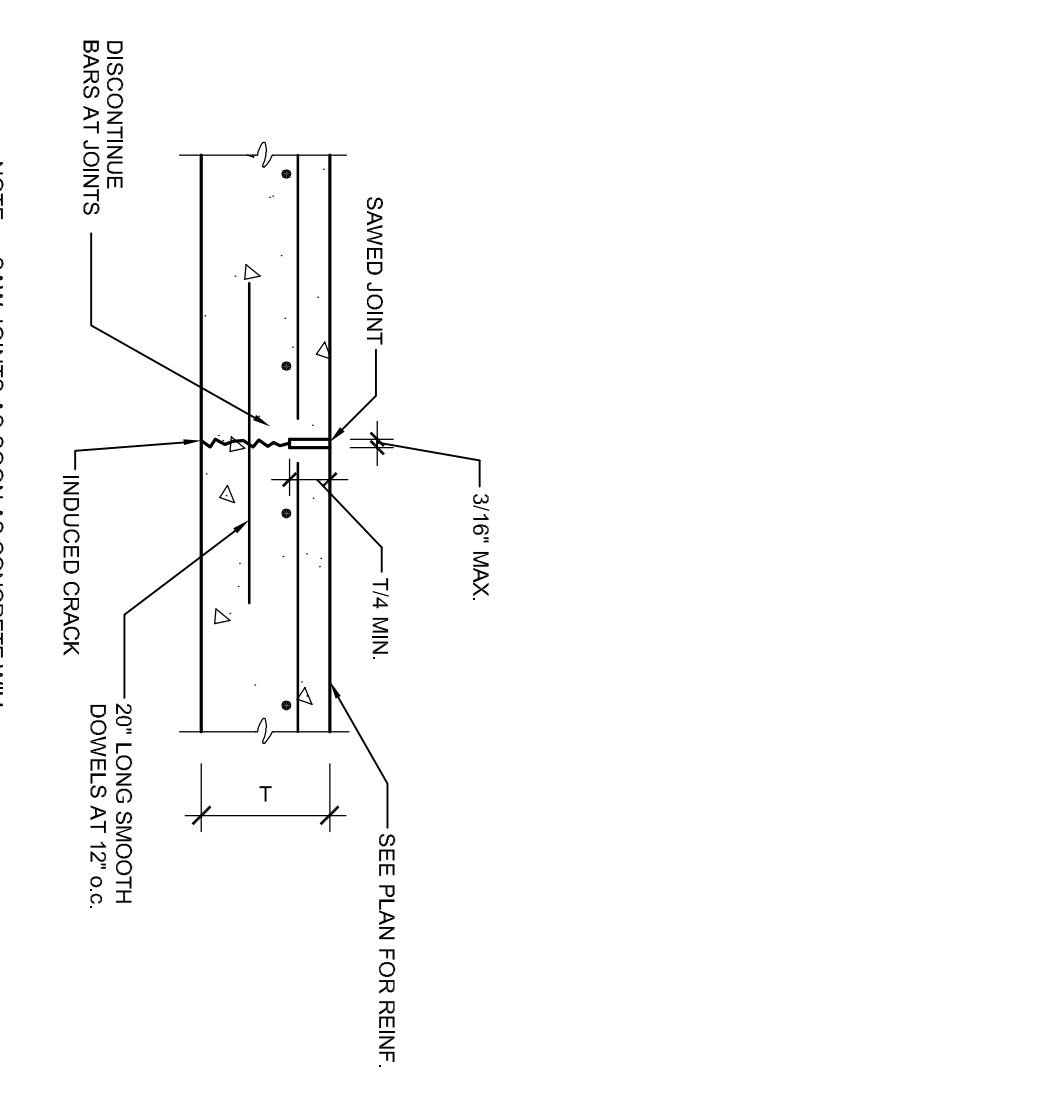
1 PLAN - LUBE SHOP
 3/16" = 1'-0"



2 TYPICAL WALL REINFORCEMENT
 3/4" = 1'-0"



3 TYP. APRON SLAB DETAIL
 1" = 1'-0"



4 DETAIL - TYP. SLAB CONTROL JOINT
 1" = 1'-0"

STRUCTURAL NOTES:

- I. GENERAL**
- DESIGN CODES
 NORTH CAROLINA BUILDING CODE 2018 EDITION
 (AMENDED 2019 INTERNATIONAL BUILDING CODE)
 ACI BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-14)
 AISC MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN AND PLASTIC DESIGN
 ASCE 7-10 MINIMUM DESIGN LOADS FOR BUILDINGS AND OTHER STRUCTURES
 - DESIGN LOADS
 LIVE LOADS FLOOR: 100 PSF
 ROOF: 20 PSF
 ULTIMATE DESIGN WIND SPEED: 118 MPH
 GROUND SNOW LOAD: 15 PSF
 - BUILDING RISK CATEGORY II
 SEISMIC DESIGN CATEGORY I
 S_s = 0.122
 S₁ = 0.082
 SITE CLASS D
 - ALL ELEVATIONS ARE REFERENCED FROM FINISHED FLOOR ELEVATION OF 0'-0".
 SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION.
 - DETAILED SHOP DRAWINGS SHALL BE PROVIDED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. SHOP DRAWINGS FOR HELICAL ANCHORS SHALL BE SIGNED AND SEALED BY A LICENSED NORTH CAROLINA PROFESSIONAL ENGINEER.
 - ENGINEERS SEAL APPLIES TO STRUCTURAL COMPONENTS ONLY AND DOES NOT CERTIFY ARCHITECTURAL LAYOUT OR DIMENSIONAL ACCURACY.
 - ROSS LINDEN ENGINEERS PC ASSURES NO LIABILITY FOR CHANGES OR MODIFICATIONS MADE TO THESE DRAWINGS BY OTHERS OR FOR CONSTRUCTION METHODS, OR FOR ANY DEVIATION FROM THESE DRAWINGS.
 - THE GENERAL CONTRACTOR IS RESPONSIBLE FOR COORDINATION AND DISTRIBUTION OF ALL CHANGES IN CONTRACT DOCUMENTS TO ALL SUBCONTRACTORS.
 - THE GENERAL CONTRACTOR AND FOUNDATION REPAIR SPECIALIST SHALL VERIFY ALL FIELD CONDITIONS, ELEVATIONS, AND DIMENSIONS PRIOR TO CONSTRUCTION. DO NOT SCALE FROM PLANS.
 - MEANS AND METHODS OF CONSTRUCTION, INCLUDING TEMPORARY BRACING, SHORING, AND JOB-SITE SAFETY ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND FOUNDATION REPAIR SPECIALIST.

II. CONCRETE

- UNLESS OTHERWISE NOTED, ALL CONCRETE SHALL HAVE THE FOLLOWING STRENGTH REQUIREMENTS
 SLAB ON GRADE: 4,000 PSI 28-DAY COMPRESSIVE STRENGTH
 ALL OTHER CONCRETE: 3,000 PSI 28-DAY COMPRESSIVE STRENGTH
- ALL CONCRETE SHALL BE MOIST CURED PER ACI 301 OR CURED WITH AN APPROVED CURING COMPOUND. CONTRACTOR SHALL VERIFY THAT THE CURING COMPOUND IS COMPATIBLE WITH FLOOR COVERING ADHESIVES COATINGS OR TOPFINISHES TO BE USED. CONCRETE SHALL BE CURED FOR A MINIMUM OF 7 DAYS
- UNLESS OTHERWISE NOTED, ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL, CONFORMING TO ASTM A615, GRADE 60, DEFORMED
- UNLESS OTHERWISE NOTED, ALL DETAILING, FABRICATION AND PLACING OF REINFORCING STEEL SHALL CONFORM TO THE MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCED CONCRETE STRUCTURES (ACI 318)
- ALL BAR SPLICES SHALL BE CLASS 'B' TENSION SPLICES PER ACI 318.14, UNLESS OTHERWISE SHOWN
- ALL SLABS AND SPREAD FOOTINGS BEARING ON WHITE SOIL OR STRUCTURAL GEOTECHNICAL REPRESENTATIVE SHALL INSPECT ALL FOOTING EXCAVATIONS TO CONFIRM ALLOWABLE BEARING PRESSURES
- CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING, PROTECTING AND RELOCATING AS REQUIRED ALL SERVICE AND UTILITY LINES IN VICINITY OF THE EXTERIOR EXCAVATION
- ALL CORNERS WHICH ARE TO BE DRILLED AND GROUTED INTO EXISTING CONCRETE SHALL BE DONE WITH AN EXPOSED GROUT DRILL HOLE WITH 2" DIA. REINFORCING BARS PER DETAILS 3 AND 4 ON SHEET S2
 SUPPLIER: USE HIF-NE 500 V3 BY HILTI OR APPROVED EQUAL

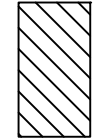
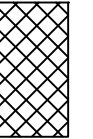
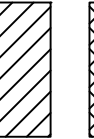
PROJECT SUMMARY:

THE GENERAL CONTRACTOR (GC) SHALL PROVIDE SPECIALIZED SERVICES FOR FOUNDATION REPAIR AS INDICATED ON THE DRAWINGS. THE SPECIALIZED FOUNDATION REPAIR SHALL BE PROVIDED BY A FOUNDATION REPAIR SPECIALIST WITH EXPERIENCE IN THE REPAIR OF DAMAGED BUILDING FOUNDATIONS.
 THE GC SHALL ALSO BE RESPONSIBLE FOR THE REPAIR OF EXISTING CMU WALLS AS INDICATED ON THE DRAWINGS, AND FOR THE REPAIR OF EXISTING INTERIOR WALL SURFACES. THE GC SHALL BE RESPONSIBLE FOR THE REPAIR OF THE EXISTING PAVEMENT AS INDICATED ON DETAIL 2S2.

REPAIR NOTES:

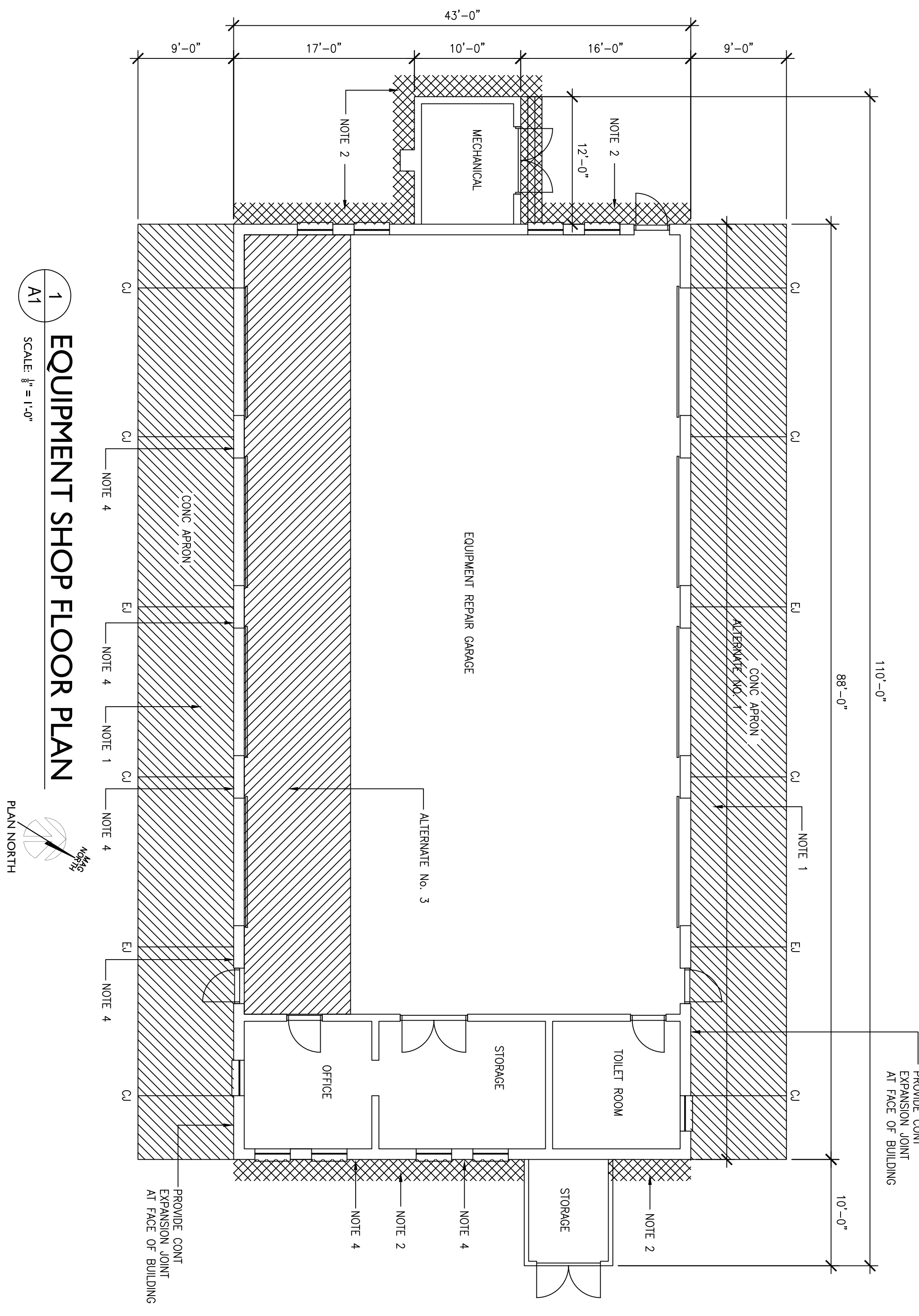
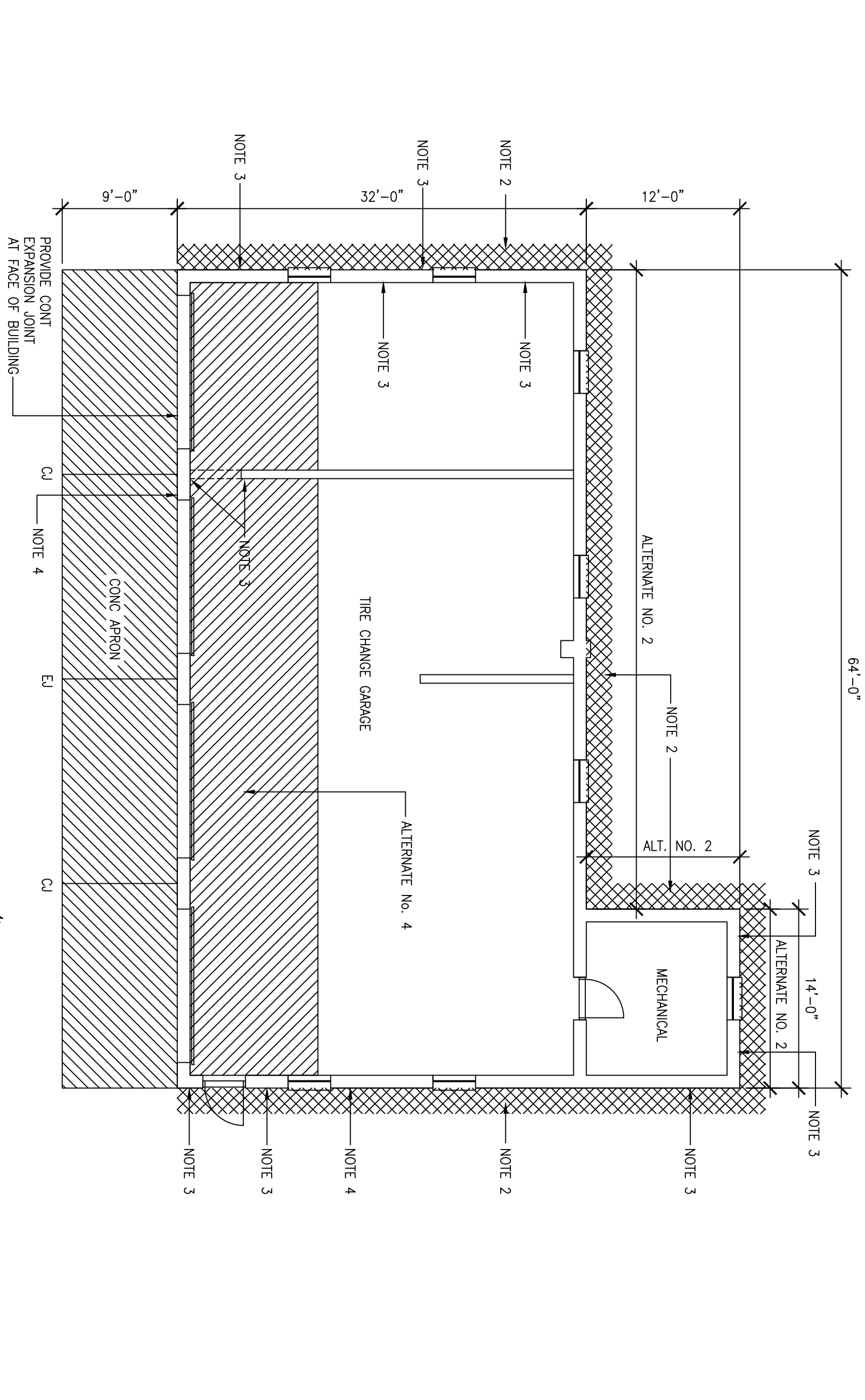
- PROVIDE FOOTING REINFORCEMENT AT SHADED AREAS. REINFORCEMENT SHALL CONSIST OF HELICAL ANCHORS PROVIDED BY FOUNDATION REPAIR SPECIALIST WITH BRACKET ATTACHMENT TO THE EXISTING CONCRETE WALL FOOTING. NOTE THAT APRON SLAB IS TO BE REPLACED. SEE DETAILS ON SHEET S2.
- MAXIMUM SPACING OF HELICAL ANCHORS SHALL BE APPROXIMATELY 4'-0" BASED ON THE ASSUMED FOOTING DIMENSIONS.
- AFTER INSTALLATION OF ANCHORS, REPAIR EXISTING CRACKS IN CMU WALLS. REPOINT MORTAR JOINTS AND FILL JOINTS SOLID. SEAL ANY CRACKS EXTENDING THROUGH CMU BLOCKS (SEAL ON EACH SIDE OF WALL, WHEREVER CRACKS ARE VISIBLE). PROVIDE A FLEXIBLE SEALANT OR POLYURETHANE FOAM INJECTION. PROVIDE SAMPLE FOR OWNER REVIEW AND APPROVAL PRIOR TO REPAIR.
- DUE TO SETTLEMENT OF WALLS, IT IS POSSIBLE THAT VOIDS EXIST BENEATH THE EXISTING CONCRETE FLOOR SLAB. THE PRESENCE OF VOIDS COULD LEAD TO FURTHER CRACKING OF THE BUILDING STRUCTURE OVER TIME.
 FOUNDATION REPAIR CONTRACTOR SHALL DRILL EXPLORATORY HOLES ALONG THE FRONT WALL OR AS HE RECOMMENDS TO DETERMINE IF VOIDS EXIST BENEATH THE CONCRETE FLOOR SLAB. THE FOUNDATION REPAIR CONTRACTOR SHALL PROVIDE THE REPAIR OF ANY VOIDS AS RECOMMENDED BY THE REPAIR CONTRACTOR. RECOMMENDATIONS, PATCH THE EXPLORATORY HOLES TO MATCH THE ADJACENT CONCRETE.
 ALTERNATE NO. 4 (SEE ASBCL DMS5).
 IF VOIDS UNDER THE CONCRETE FLOOR SLAB ARE DETECTED, FOUNDATION REPAIR CONTRACTOR SHALL PROVIDE AN INJECTION OF FLOWABLE MATERIAL TO FILL THE VOIDS WITH THE INTENT TO LIMIT THE LIKEHOOD OF FUTURE SETTLEMENT AND CRACKING. INJECTION MATERIAL AND METHOD SHALL BE SUBMITTED FOR REVIEW AND APPROVAL PRIOR TO CONSTRUCTION. THE FLOWABLE MATERIAL SHALL NOT BE LESS THAN 2000 PSI ESTIMATED VOLUME OF MATERIAL S2 CUBIC FEET, CORRESPONDING TO A 1" VOID OVER THE LENGTH OF THE BUILDING, EXTENDING APPROXIMATELY 10 FT INTO THE BUILDING.

REPAIR LEGEND

-  NEW CONCRETE APRON - SEE NOTE #1
-  GRADE PATCHING - SEE NOTE #2
-  FLOOR SLAB UNDERPINNING - SEE NOTE #5

REPAIR NOTES:

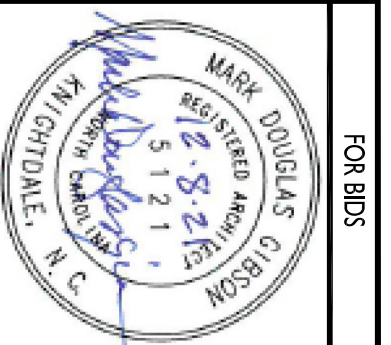
1. AFTER FOUNDATION REPAIR WORK HAS BEEN COMPLETED, DEMOLISH EXISTING CONCRETE APRON IN ITS ENTIRETY. CAST NEW CONCRETE APRON TO MATCH THE DIMENSIONS OF THE EXISTING. NEW CONCRETE APRON SHALL BE 8" THICK 4000 P.S.I. WITH W/ #4 @ 16" ON CENTER REBAR ON 4" COMPACTED GRANULAR BASE. PROVIDE CONTROL JOINTS AND EXPANSION JOINTS AS INDICATED.
2. AFTER FOUNDATION REPAIR WORK HAS BEEN COMPLETED, FILL REMAINING PIER EXCAVATIONS WITH NO. 411 CRUSHED STONE TO WITHIN 4" OF GRADE. FINISH THE FILL WITH MATERIALS TO MATCH ADJACENT.
3. AFTER FOUNDATION REPAIR WORK HAS BEEN COMPLETED, REPOINT MORTAR JOINTS IN CMU AS INDICATED IN STRUCTURAL AND ARCHITECTURAL DRAWINGS OR AS DIRECTED BY ARCHITECT. SEE SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES RELATED TO REPOINTING.
4. AFTER FOUNDATION REPAIR WORK HAS BEEN COMPLETED, REPLACE SPAULED OR BROKEN CMU MASONRY TO MATCH ADJACENT MASONRY WHERE INDICATED OR DIRECTED BY ARCHITECT. SEE SPECIFICATIONS FOR ALLOWANCES AND UNIT PRICES RELATED TO MASONRY REPLACEMENT.
5. SEE SPECIFICATION SECTION 01 2300 "ALTERNATES" FOR CONCRETE FLOOR SLAB UNDERPINNING. SEE NOTE #4 ON DRAWINGS S1 AND S2.



EQUIPMENT SHOP & LUBE SHOP
FOUNDATION REPAIR PLANS

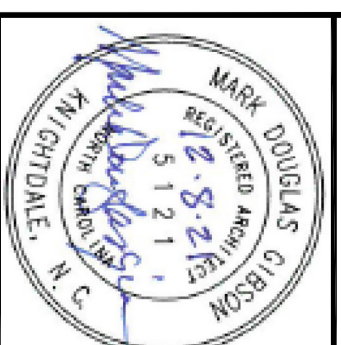
**Repairs to
NCDOT Edgecombe County
Equipment and Lube Shops**
NCDOT HIGHWAY DIVISION 4
2008 W. WILSON STREET, TARBORO, NC 27886

NCDOT FACILITIES DESIGN UNIT
ARCHITECT & ENGINEERS
1 SOUTH WILMINGTON STREET
RALEIGH, NORTH CAROLINA 27601
PHONE: 919/707-4540 FAX 919/715-0399



DATE ISSUED: 9/3/2021	DRAWN BY: MDG
CHECKED BY: MDG	SHEET NO.
A1	

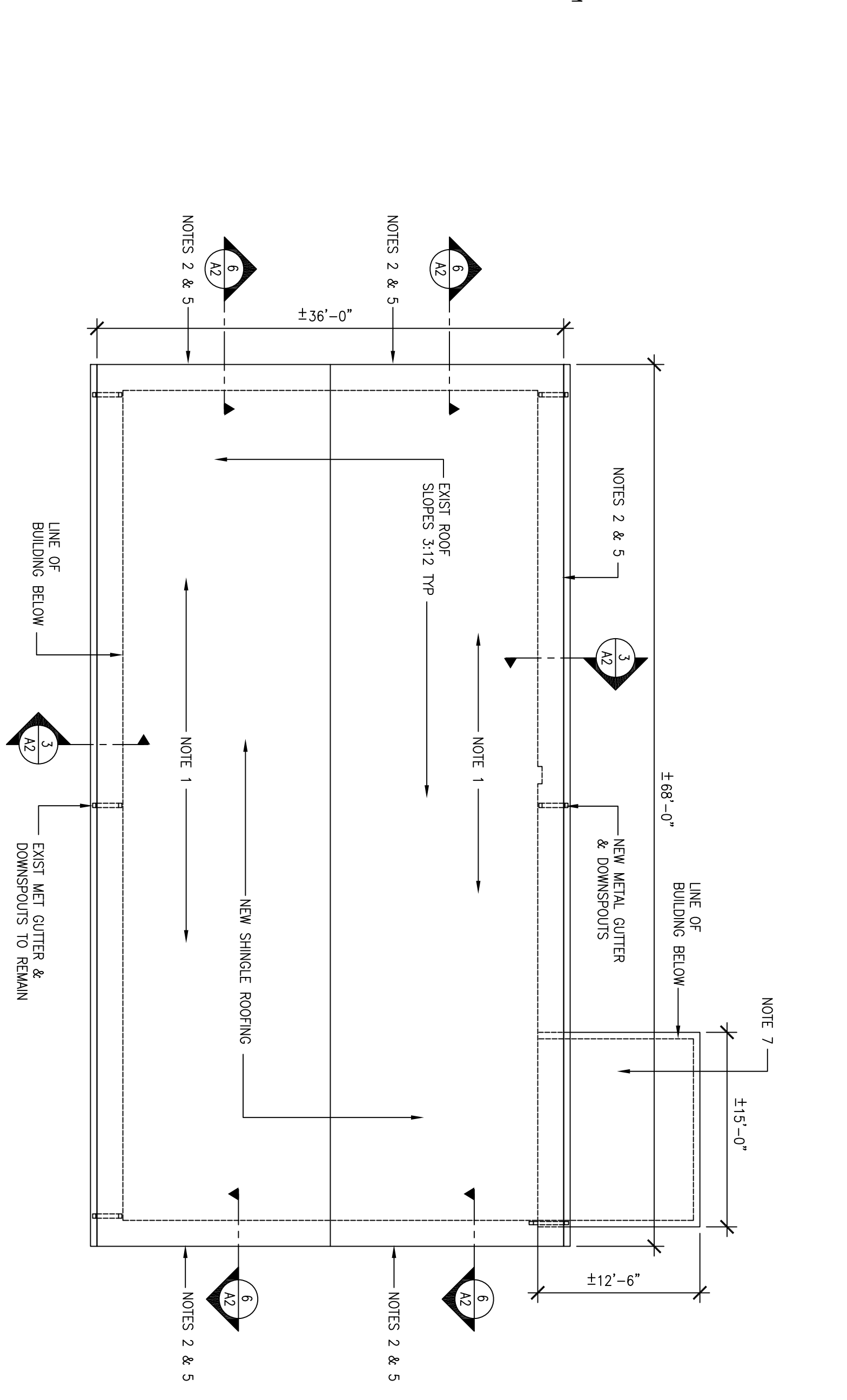
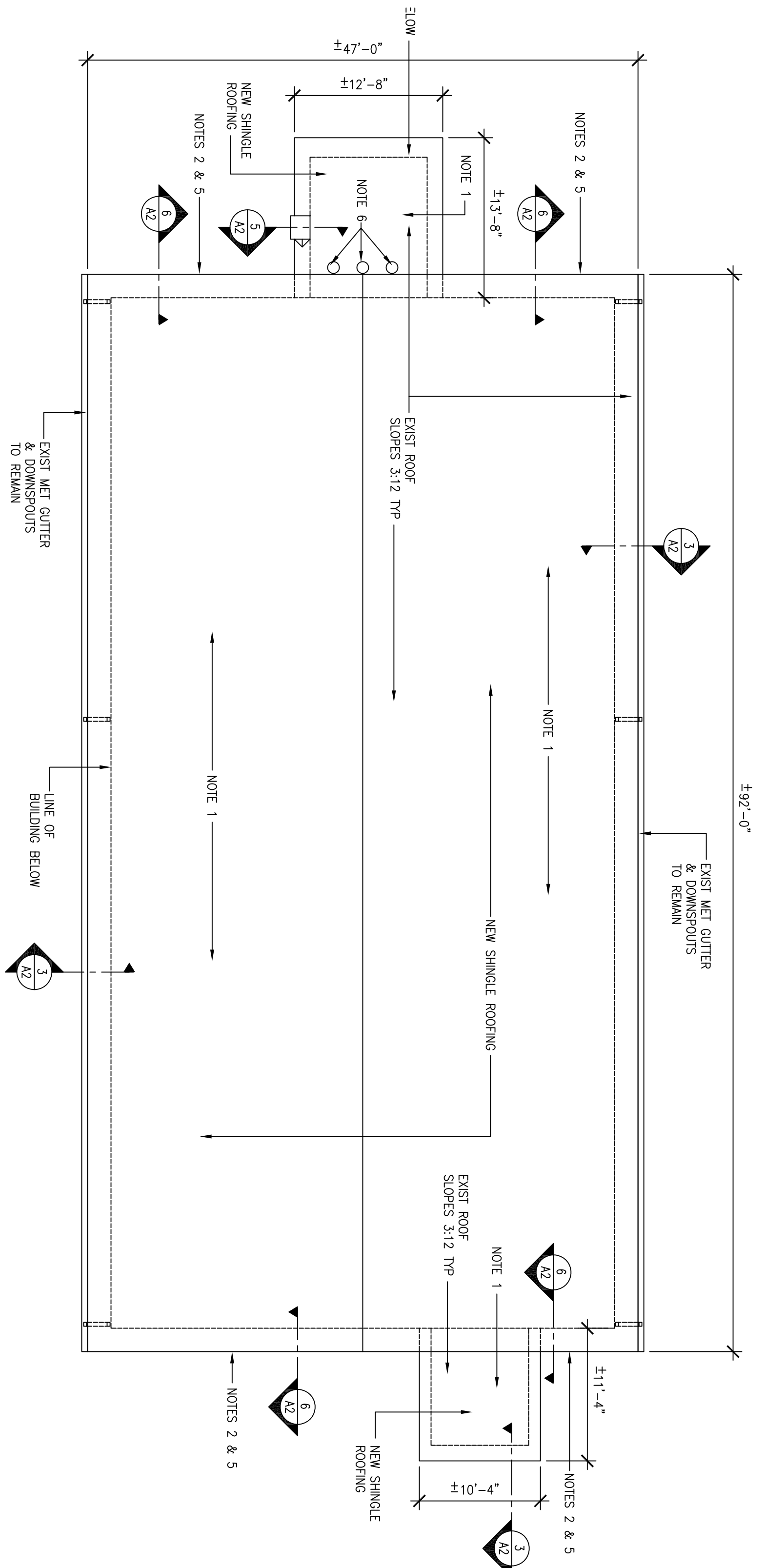
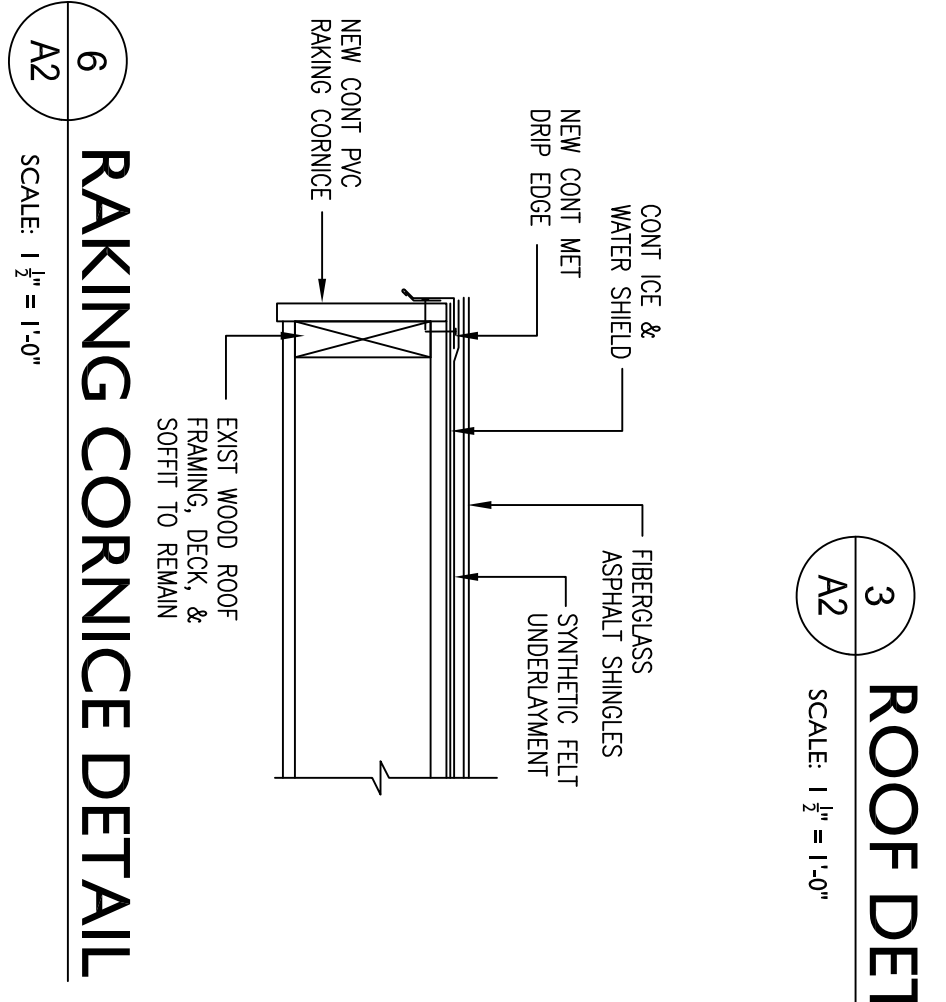
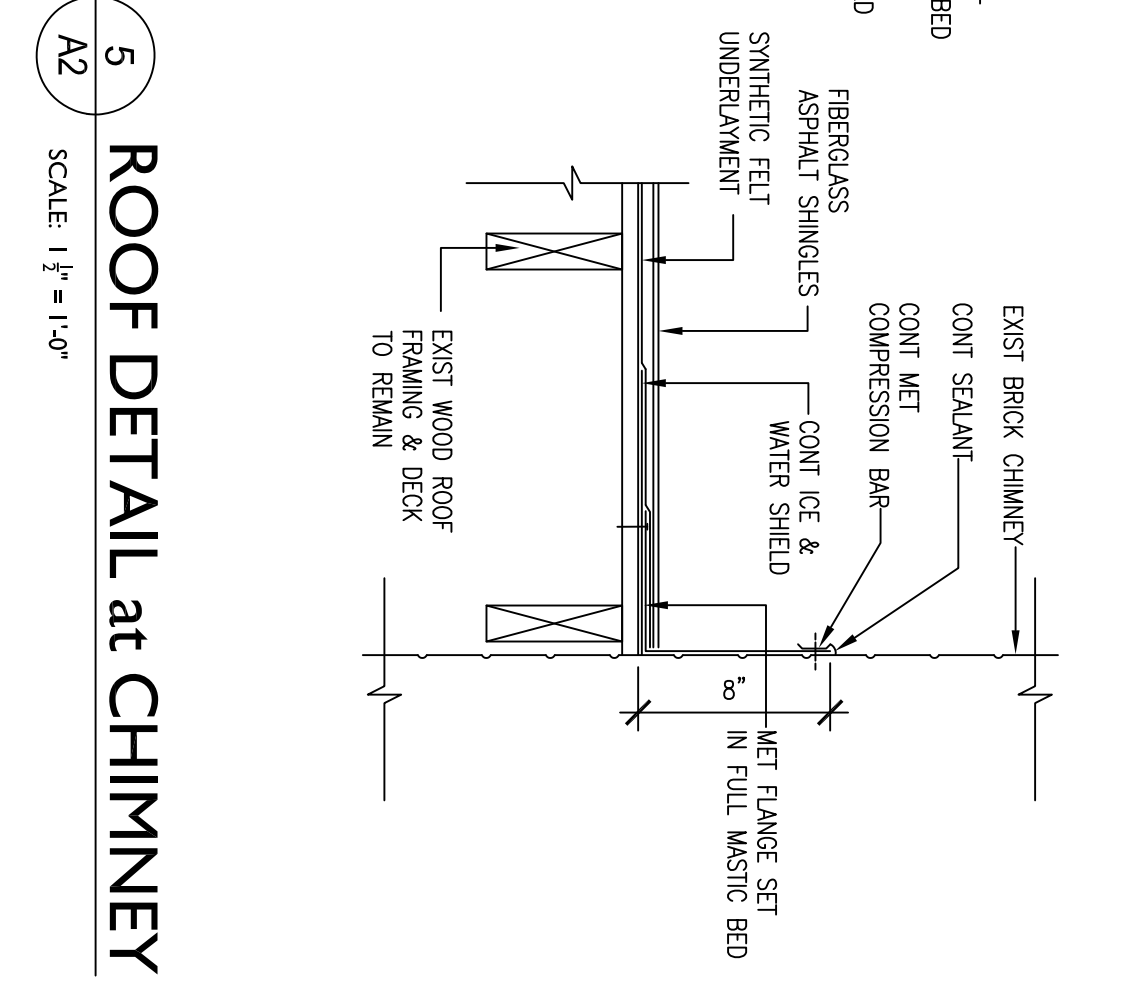
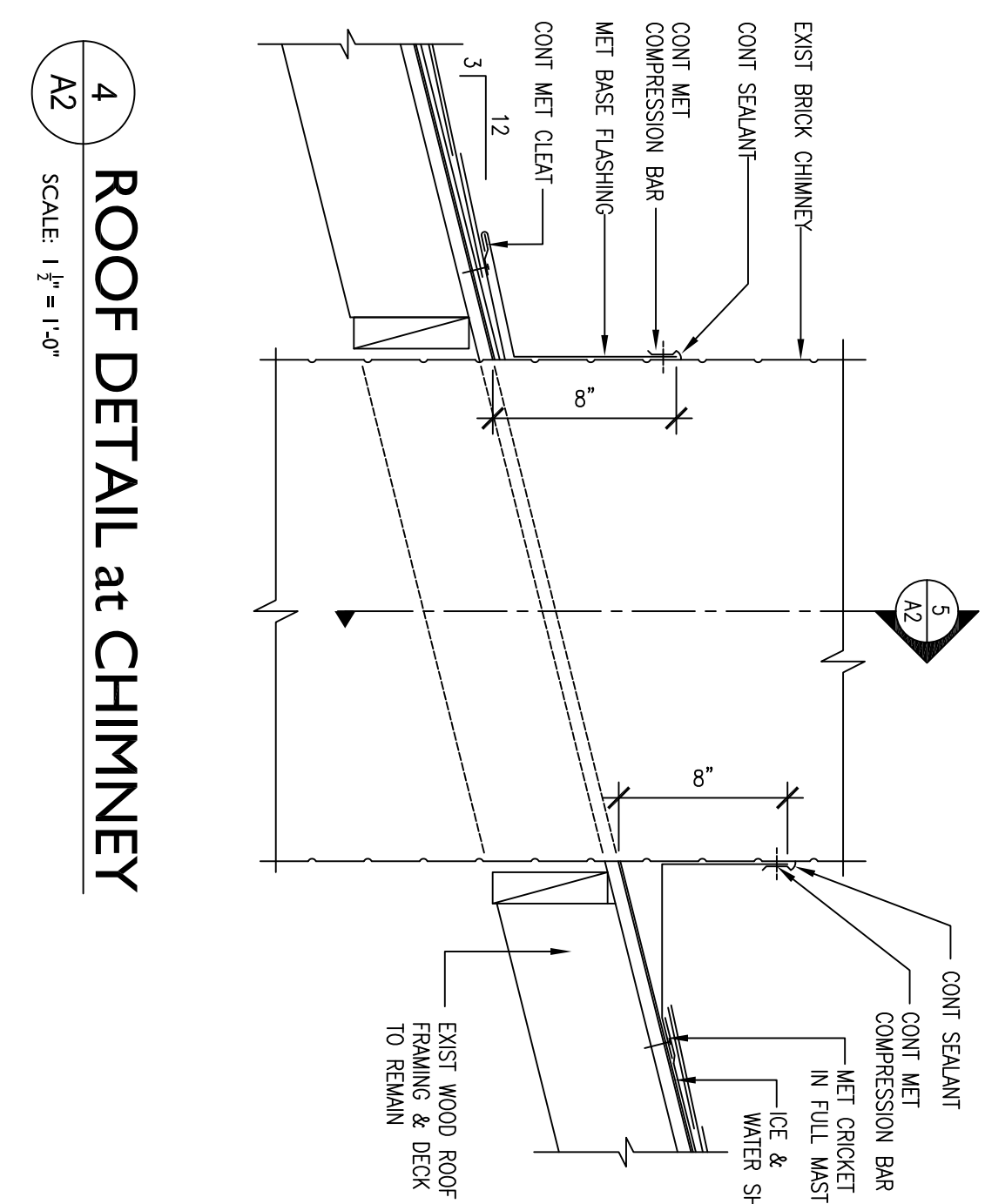
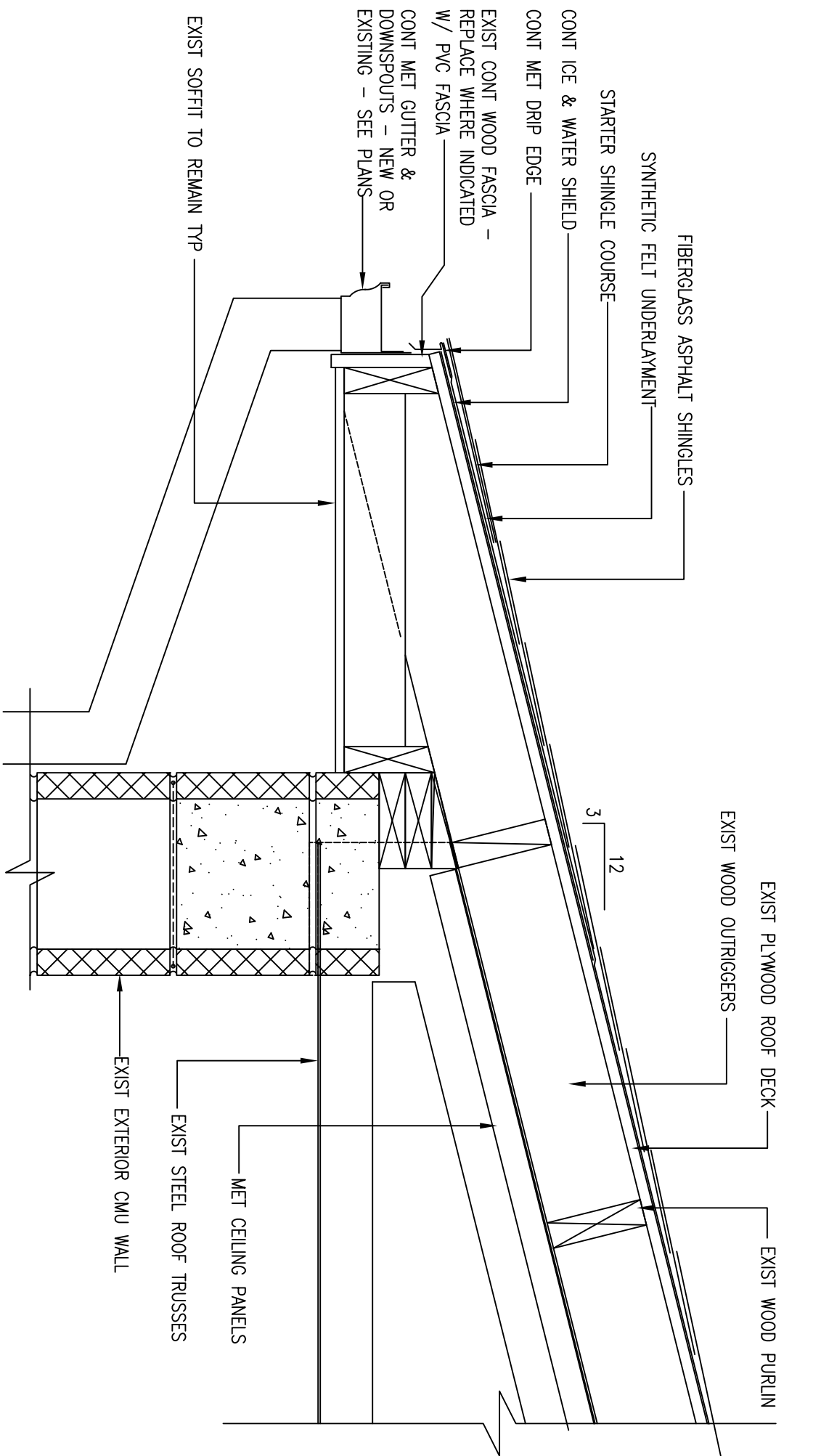
STATE CONSTRUCTION ID.# 20-21659-01A	ASSET NUMBER: 88	SITE # 02	BUILD # 00
REVISIONS	NO.	DATE	



NCDOT FACILITIES DESIGN UNIT
 ARCHITECT & ENGINEERS
 1 SOUTH WILMINGTON STREET
 RALEIGH, NORTH CAROLINA 27601
 PHONE: 919/707-4540 FAX 919/715-0399

ROOF REPLACEMENT NOTES:

1. DEMOLISH ROOFING ASSEMBLY TO ROOF DECK. DEMOLISH METAL DRAIN EDGES AND BOOTS FOR VENTS THROUGH ROOF UNLESS OTHERWISE NOTED. PROPERLY DISPOSE OF ALL DEBRIS.
2. DEMOLISH DETERIORATED RAKING CORNICES. EXAMINE SUBSTRATES FOR DETERIORATION AND REPORT TO ARCHITECT ANY COMPROMISED COMPONENTS.
3. ALL NEW COMPONENTS SHALL BE PROPERLY PRIMED BEFORE BEING SET IN PLACE. FINAL FINISH PAINTING SHALL BE APPLIED AFTER ALL COMPONENTS ARE PERMANENTLY INSTALLED.
4. CONTRACTOR SHALL EXAMINE ROOF DECK FOR WATER DAMAGE AND DETERIORATION AND SHALL REPORT TO ARCHITECT THE EXTENT OF DAMAGED ROOF DECK TO BE REPAIRED. GC COMPENSATION FOR ROOF DECK REPLACEMENT SHALL BE BASED ON UNIT PRICE No. 3 IN THE CONTRACT.
5. PROVIDE NEW PVC RAKING CORNICE TO MATCH EXISTING.
6. EXISTING METAL BOOTS TO REMAIN.
7. EXISTING CONCRETE SLAB ROOF. NO WORK ON THIS ROOF.



Repairs to NCDOT Edgecombe County Equipment and Lube Shops
 NCDOT HIGHWAY DIVISION 4
 2008 W. WILSON STREET, TARBORO, NC 27886

EQUIPMENT SHOP & LUBE SHOP
 ROOFING REPLACEMENT PLANS & DETAILS

DATE ISSUED: 9/23/2021	DRAWN BY: MDG
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STATE CONSTRUCTION ID# 20-21659-01A	ASSET NUMBER: BLDG# 88
NO. 02	DATE
REVISIONS	

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