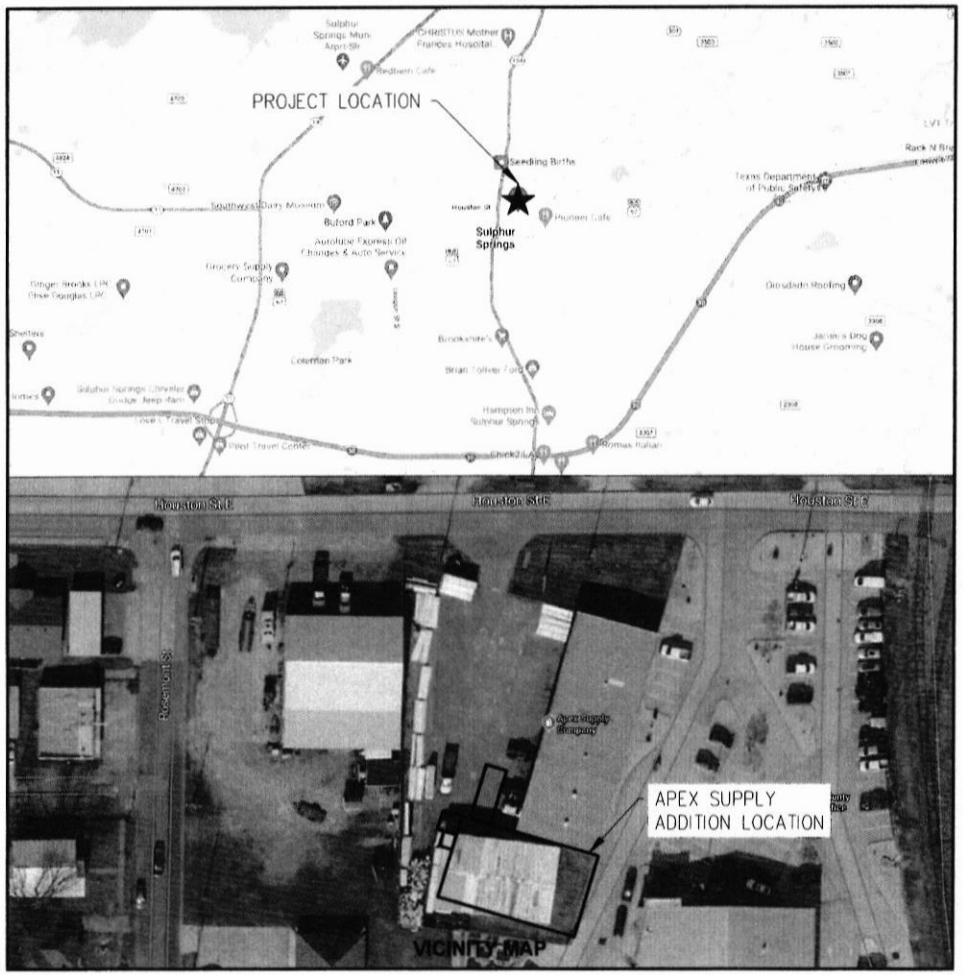
EXHIBIT 2

APEX SUPPLY ADDITION

Sulphur Springs, Texas



SHEET INDEX

SHEET NO.	DESCRIPTION
T100	TITLE PAGE
A100	LIFE SAFETY PLAN
C100	DEMOLITION PLAN
C101	PAVING PLAN
C200	PAVING DETAILS
S100	GENERAL NOTES
S101	FOUNDATION PLAN
S102	ROOF FRAMING PLAN
S200	FOUNDATION SECTIONS & DETAILS
S201	BUILDING FRAMING SECTIONS
S202	BUILDING FRAMING SECTIONS
S203	BUILDING FRAMING ELEVATIONS
E100	LIGHTING & POWER PLAN
E200	ELECTRICAL DETAILS

PROJECT DATA

ZONING	LI – LIGHT INDUSTRIAL	
ACREAGE	0.826	
OCCUPANCY CLASSIFICATION	BUSINESS GROUP S-1	
CONSTRUCTION TYPE	II-B (1 STORY)	
TDLR # TABS2024018375		
USE	STORAGE/WAREHOUSE	
	AREA	OCCUPANT LOAD
BUILDING AREA/OCCUPANT LOAD	5,000 S.F	10
TOTAL OCCUPANCY	10	

THE CONSTRUCTION OF THIS PROJECT SHALL CONFORM TO ALL APPLICABLE LOCAL, STATE AND FEDERAL CODES, INCLUDING THE FOLLOWING;
2018 INTERNATIONAL BUILDING CODE
2018 INTERNATIONAL MECHANICAL CODE
2018 INTERNATIONAL PLUMBING CODE
2021 NATIONAL ELECTRICAL CODE
2018 INTERNATIONAL FIRE CODE
2018 INTERNATIONAL ENERGY CODE
AMERICANS WITH DISABILITIES ACT

SPECIAL INSPECTION REQUIREMENTS

THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING PERIODIC SPECIAL INSPECTIONS BY A QUALIFIED REGISTERED DESIGN PROFESSIONAL RESPONSIBLE FOR EACH PORTION OF THE WORK. SPECIAL INSPECTION REQUIREMENTS TO COMPLY WITH SECTION 1704 OF THE INTERNATIONAL BUILDING CODE. SUCH INSPECTIONS SHALL INCLUDE THE FOUNDATION, TRUSSES, WALL AND WIND SHEAR BRACING

ENGINEER:

DYNAMIC ENGINEERING CONSLTANTS, PLLC
200 SOUTH HILLCREST DRIVE SUITE C
SULPHUR SPRINGS, TX 75482
CONTACT: JAMES W. BURNETT
PH# 903-382-3444

PERMIT SET	5/13/2024
ISSUED FOR	DATE

APEX SUPPLY

SULPHUR SPRINGS, TX

DYNAMIC Engineering Consultants PLLC
PROFESSIONAL ENGINEERING SERVICES
200 S. HILLCREST, SUITE C
SULPHUR SPRINGS, TX
75482

STATE OF TEXAS
JAMES W. BURNETT
93832
LICENSED
PROFESSIONAL ENGINEER

ENGINEERING SEAL

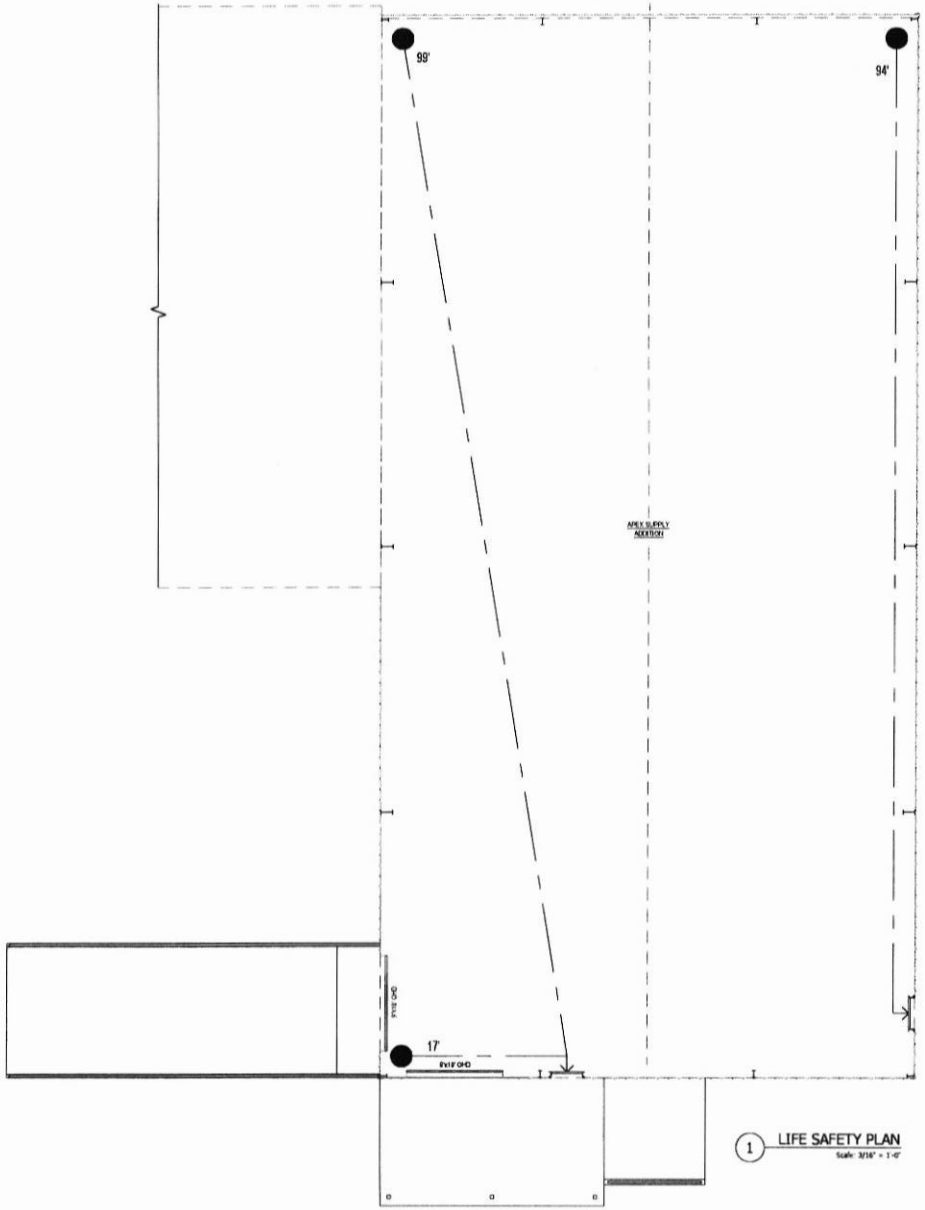
	NAME	DATE
DRAWN	JJB	2/28/24
CHECKED		
ENG APPR.	JW BURNETT	2/28/24
Q.A.		

PROPRIETARY AND CONFIDENTIAL

TITLE PAGE

PROJECT # 10240

SHEET NUMBER T100



1 LIFE SAFETY PLAN
Scale: 3/16" = 1'-0"

5'-4" 0 5'-4" 10'-8"
SCALE: 3/16" = 1'-0"

OCCUPANCY LOAD

RM. #	RM. NAME	AREA	OCCUPANCY
NA	WAREHOUSE	5,000 / 500 = 10	10
TOTAL		5,000	10

ISSUED FOR	DATE
PERMIT SET	5/13/2024

APEX SUPPLY

SULPHUR SPRINGS, TX

DYNAMIC
Engineering
Consultants
PLLC

PROFESSIONAL
ENGINEERING
SERVICES

200 S. HILLCREST, SUITE C
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75482

STATE OF TEXAS
JAMES W. BURNETT
93832
LICENSED
PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

LIFE SAFETY PLAN

PROJECT # 10240

SHEET NUMBER A100

EXISTING CONCRETE

EXISTING ASPHALT

LANDSCAPE

GENERAL NOTES:

1. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN PRESENT. THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY HAND TEST PITS BY HAND AT ALL UTILITY CROSSING WELL IN ADVANCE OF TRENCHING. IF THE DIMENSIONS ARE LESS THAN SHOWN ON THE PLANS OR "X", WHICHEVER IS LESS, CONTACT DYNAMIC ENGINEERING CONSULTANTS, PLLC A SOON AS POSSIBLE.
2. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXCESS TOPSOIL THAT IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHEETING, SHORING, AND SPECIAL EXCAVATION MEASURES REQUIRED ON THE PROJECT TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. SEE DYCK-TRUAX CENTER HOSPITAL AND DYNAMIC ENGINEERING CONSULTANTS, PLLC ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
4. CALL BEFORE YOU DIG TEXAS ONE-CALL 811.
5. ALL WORK SHALL CONFORM TO FEDERAL, STATE, PARISH, AND/OR LOCAL STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
6. ALL CURB/HANDICAP RAMP SLOPES SHALL CONFORM TO THE TDLR ACCESSIBILITY STANDARDS, OSHA OR CITY STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
7. THE CONTRACTOR SHALL REFER TO THE ARCHITECTURAL PLANS FOR THE EXACT LOCATION OF THE UTILITY ENTRANCE POINTS, TRANSFORMER, SLOPED PAVING, TRUCK DOCKS RAMPS, SITE LIGHTING PANELS, EXIT PORCHES, VESTIBULE, PRECAST BUILDING DIMENSIONS, ETC.
8. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE DAILY RECORD KEEPING OF THE AS-BUILT CONDITIONS OF ALL OF THE UNDERGROUND UTILITIES, STORM DRAIN, AND CONSTRUCTION CHANGES ASSOCIATED WITH THE PROJECT. THE CONTRACTOR SHALL HAVE A LICENSED SURVEYOR PREPARE THE REQUIRED AS-BUILT INFORMATION FOR SUBMITTAL TO GOVERNING AGENCIES AND ALL OTHER INFORMATION REQUIRED IN CONNECTION WITH RELEASE OF BONDS.
9. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE ALL MATERIAL AND LABOR ASSOCIATED WITH THE TESTING OF THE WATER AND SEWER LINES AS REQUIRED.
10. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE OF ANY OF MATERIAL NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THESE PLANS.
11. THE CONTRACT SHALL INCLUDE IN THE PRICE ANY AND ALL COSTS ASSOCIATED WITH PROVIDING PROFESSIONAL ENGINEER ON SITE IF REQUIRED DURING THE CONSTRUCTION OF THE STORM WATER MANAGEMENT FACILITY, UNDERGROUND UTILITIES, ETC. AS REQUIRED FOR AS-BUILT CERTIFICATION.

SITE NOTES:

1. PROPERTY BOUNDARY INFORMATION SHOWN HEREIN IS TAKEN FROM A A.L.T.A/ACSM LAND TITLE SURVEY AND TOPOGRAPHIC SURVEY PREPARED FOR KAUFMAN GUTTERS BY TDT SURVEYING, SULPHUR SPRINGS, TX. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
2. CONTRACTOR SHALL MATCH PROPOSED CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING GRADE AND ALIGNMENT.
3. CONTRACTOR SHALL REMOVE PAVEMENT & CONCRETE IN ACCORDANCE WITH SPECIFICATION OF ALL GOVERNING AGENCIES.
4. GENERAL CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTION, ABANDONMENT, OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON PLANS.
5. CONTRACTOR IS RESPONSIBLE FOR REPAIRING THE DAMAGE DONE TO ANY EXISTING ITEMS DURING CONSTRUCTION, SUCH AS, BUT NOT LIMITED TO, DRAINAGE, UTILITIES, PAVEMENT, STRIPING, CURB ETC. REPAIRS SHALL BE EQUAL TO OR BETTER THAN EXISTING CONDITIONS. CONTRACTOR IS RESPONSIBLE TO DOCUMENT ALL EXISTING DAMAGE AND NOTIFY CONSTRUCTION MANAGER PRIOR TO CONSTRUCTION STARTS.
6. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL EXISTING DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METER AND WATER LINES, WELL, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, AND CONCRETE PAVING, SHOWN AND NOT SHOWN, WITH CONSTRUCTION JOINTS AND WHERE NEEDED, TO ALLOW FOR NEW CONSTRUCTION AS SHOWN.
7. CONTRACTOR IS RESPONSIBLE FOR ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN DISPOSING OF DEMOLISHED MATERIALS REMOVED FROM THE SITE.
8. BUILDING SHOWN ARE TO FACE OF CURB, FACE OF BUILDING OR CENTERLINE OF PARKING BAY UNLESS NOTE OTHERWISE.
9. ALL PARKING PLAN BASED FOR PARKING SPACES.
10. BUILDING AND CANOPY EXCAVATION AND FOUNDATIONS, BUILDING ENTRANCE PLATFORMS, PORCHES, PATIO, BUILDING DIMENSIONS, UTILITY ENTRANCE POINTS, SIDEWALK ADJACENT TO THE BUILDING, AND LOADING DOCK RAMP/RETAINING WALLS ARE DETAILED AND SPECIFIED ON THE ARCHITECTURAL DRAWINGS.
11. PROVIDE EXPANSION JOINTS AT ALL RADIUS POINTS IN CONCRETE CURB AND GUTTER AND AS SHOWN ON THE DETAILS, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR IS TO PROVIDE TRASH RECEPTACLES FOR USE OF SUBCONTRACTORS AND THEIR EMPLOYEES. A DUMPSTER SHOULD BE LOCATED BY STREETS AND RIGHT OF WAYS. BLOCKING PERMITS ARE REQUIRED FOR ANY USE OF THE STREET RIGHT OF WAYS.
13. PROVIDE CONTAINERS FOR GARBAGE, AND MINOR TRASH IN EATING AREAS, IN PARKING LOTS, AND ALONG WALKWAYS.
14. REPAIR TRASH CONTAINERS ADEQUATELY.
15. KEEP STREETS AND AREAS ADJACENT TO THE JOB SITE CLEAN AND FREE OF TRASH AND MUD ORIGINATING FROM THE SITE.
16. REQUIRE ALL WHEEL HAULERS TO COVER TRUCKS BEFORE LEAVING SITE.
17. CONTRACTOR IS RESPONSIBLE TO ANY DAMAGE TO STREETS, SIDEWALKS, CURB AND GUTTERS ON ANY OTHER PUBLIC PROPERTY. DAMAGE MUST BE REPAIRED OR REPLACED PRIOR TO FINAL INSPECTIONS.

AUTHORITY AND RESPONSIBILITY:

THE ENGINEER, AS REPRESENTATIVE OF THE OWNER, SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO AUTHORITY TO STOP WORK, SHALL HAVE NO SUPERVISION OR CONTROL AS TO THE WORK OR PERSONS DOING THE WORK, SHALL NOT HAVE CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OF ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS, OR OTHER WORK AIDS, AND SHALL HAVE NO DUTIES OR RESPONSIBILITIES IMPOSED BY THE STRUCTURAL WORK ACT.

PERMITS, BONDS, AND INSPECTIONS:

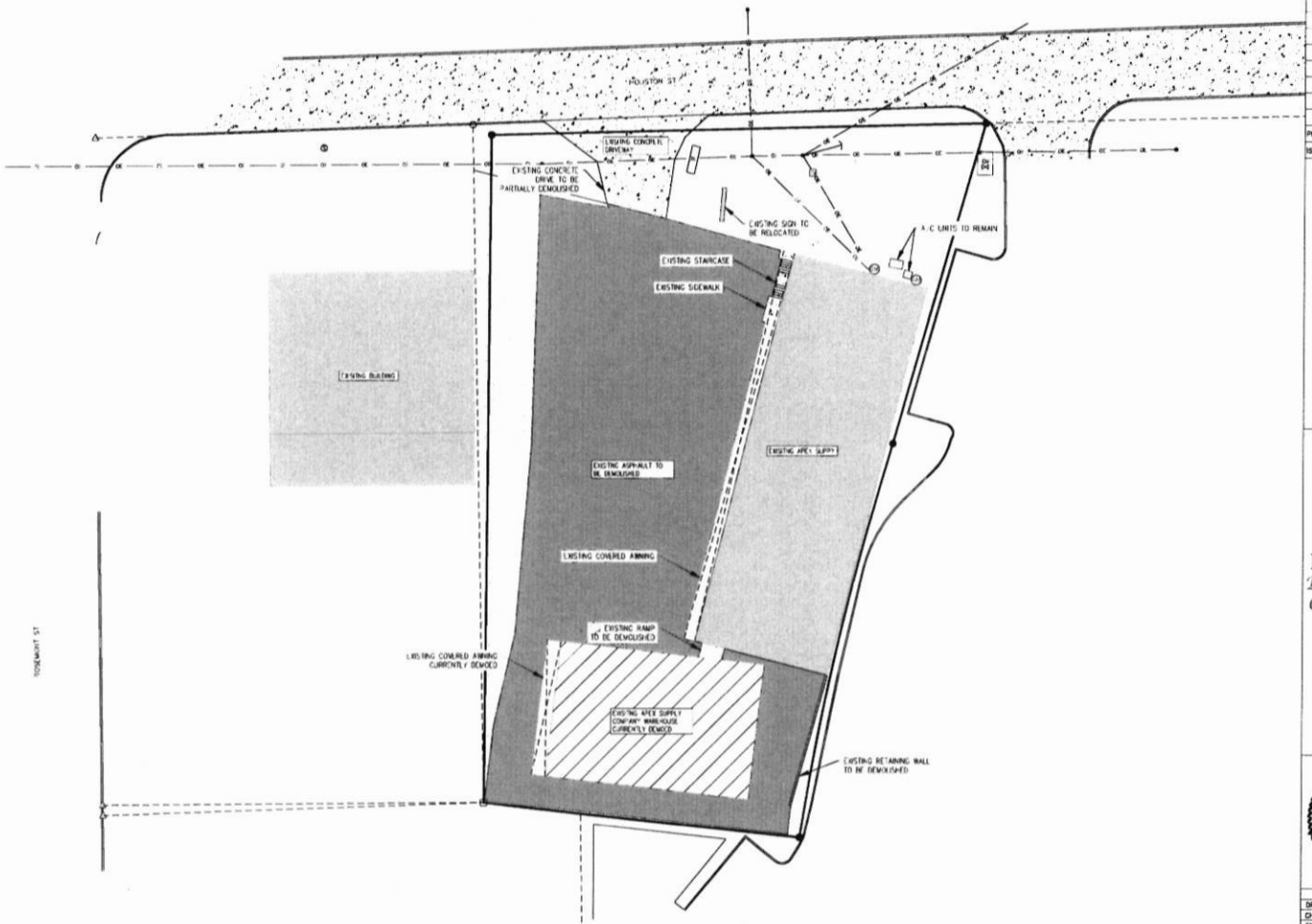
THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL NECESSARY INSPECTIONS AND/OR CERTIFICATIONS REQUIRED BY COUNTY AND/OR UTILITY SERVICE COMPANIES SHALL BE PERFORMED PRIOR TO THE ANNOUNCED BUILDING OCCUPANCY AND THE FINAL CONNECTION OF SERVICES. THIS SHALL INCLUDE THE HIRING OF A PROFESSIONAL ENGINEER TO CONDUCT INSPECTIONS AND PROVIDE CERTIFICATIONS, AS MAY BE REQUIRED.

Texas 811

Know what's below. Call before you dig.

CAUTION ! ! !

EXISTING UNDERGROUND UTILITIES IN THE VICINITY. VERIFY LOCATION OF EXISTING UNDERGROUND UTILITIES



PERMIT SET	5/13/2024
ISSUED FOR	DATE

APEX SUPPLY

SULPHUR SPRINGS, TX

DYNAMIC Engineering Consultants PLLC

PROFESSIONAL ENGINEERING SERVICES

201 S. HILLCREST, SUITE C
SULPHUR SPRINGS, TX
75483

STATE OF TEXAS
JAMES W. BURNETT
93832
LICENSED
PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
DRAWN	A.J.T.	5/13/2024
CHECKED		
ENG APPR.	JW BURNETT	5/13/2024
Q.A.		

PROPRIETARY AND LEGAL NOTICE:

DEMOLITION PLAN

PROJECT # 10240

SHEET NUMBER C100

EXISTING CONCRETE

PROPOSED MEDIUM CUT CONCRETE INSIDE PROPERTY LINE

PROPOSED MEDIUM CUT CONCRETE EXTENDED TO COUNTY LINE

PROPOSED STRUCTURE

PROPOSED SIDEWALK

GENERAL NOTES:

1. INFORMATION CONCERNING UNDERGROUND UTILITIES WAS OBTAINED FROM AVAILABLE RECORDS AND FIELD CONDITIONS WHEN POSSIBLE. BUT THE CONTRACTOR MUST DETERMINE THE EXACT LOCATION AND ELEVATION OF ALL EXISTING UTILITIES BY HAND TEST PITS BY HAND AT ALL UTILITY CROSSING WELL IN ADVANCE OF TRENCHING. IF THE CLEARANCES ARE LESS THAN SPECIFIED ON THE PLANS OR 2' WHICHEVER IS LESS, CONTACT DYNAMIC ENGINEERING CONSULTANTS, PLLC AT 903-392-3444.
2. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE THE REMOVAL AND DISPOSAL OF ANY EXISTING TOPSOIL THAT IS NOT REQUIRED TO PERFORM THE FINAL GRADING AND LANDSCAPING OPERATIONS.
3. CONTRACTOR IS RESPONSIBLE FOR THE DESIGN AND IMPLEMENTATION OF ALL REQUIRED/NECESSARY SHORING, BRACING, AND SPECIAL LIGHTING AS REQUIRED BUILDING ON THE PROJECT TO MEET OSHA, FEDERAL, STATE, AND LOCAL REGULATIONS PURSUANT TO THE INSTALLATION OF THE WORK INDICATED ON THE DRAWINGS. BY EACH RETAIL CENTER INSPECTOR, AND DYNAMIC ENGINEERING CONSULTANTS, PLLC ACCEPT NO RESPONSIBILITY FOR THE DESIGN TO INSTALL SAID ITEMS.
4. CALL BEFORE YOU DIG TEXAS ONE-CALL 811.
5. ALL WORK SHALL CONFORM TO FEDERAL, STATE, PARISH, AND/OR LOCAL STANDARDS, WHICHEVER IS MORE RESTRICTIVE.
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10. THE CONTRACTOR SHALL INCLUDE IN THE CONTRACT PRICE OF ANY DE-WATERING NECESSARY TO CONSTRUCT THE PROJECT AS SHOWN ON THESE PLANS.
11. THE CONTRACT SHALL INCLUDE IN THE PRICE ANY AND ALL COSTS ASSOCIATED WITH PROVIDING PROFESSIONAL ENGINEER ON SITE IF REQUIRED, DURING THE CONSTRUCTION OF THE STORM WATER MANAGEMENT FACILITY, UNDERGROUND UTILITIES, ETC. AS REQUIRED FOR AS BUILT CERTIFICATION.

SITE NOTES:

1. PROPERTY BOUNDARY INFORMATION SHOWN HEREIN IS TAKEN FROM A ALTA/ACSM LAND TITLE SURVEY AND TOPOGRAPHIC SURVEY PREPARED FOR MARSHALL BURLESON BY CST SURVEYING, SULPHUR SPRINGS, TX. CONTRACTOR IS RESPONSIBLE FOR PROTECTION OF ALL PROPERTY CORNERS.
2. CONTRACTOR SHALL REMOVE PROPOSED CURB AND GUTTER, CONCRETE, AND PAVEMENT TO EXISTING GRADE AND ALIGNMENT.
3. CONTRACTOR SHALL REMOVE PAVEMENT & CONCRETE IN ACCORDANCE WITH SPECIFICATION OF ALL GOVERNING AGENCIES.
4. GENERAL CONTRACTOR SHALL COORDINATE WITH APPROPRIATE UTILITY COMPANIES PRIOR TO CONSTRUCTIONS, ADJUSTMENT, OR RELOCATION OF EXISTING UTILITIES AS DESIGNATED ON PLANS.
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6. CONTRACTOR TO REMOVE OR RELOCATE, WHEN APPLICABLE, ALL EXISTING DRAIN PIPES, SANITARY SEWER PIPES, POWER POLES, AND GUY WIRES, WATER METERS AND WATER LINES, WELL, SIDEWALKS, SIGN POLES, UNDERGROUND GAS, AND CONCRETE PAVING, SHOWN AND NOT SHOWN, WITH CONSTRUCTION JOINTS AND MATCH HEIGHT TO ALIGN FOR NEW CONSTRUCTION AS SHOWN.
7. CONTRACTOR SHALL FOLLOW ALL LOCAL, STATE, AND FEDERAL REGULATIONS IN DISPOSING OF DUMPS/SHED MATERIALS REMOVED FROM THIS SITE.
8. DIMENSIONS SHOWN ARE TO FACE OF CURB, FACE OF BUILDING, OR CENTERLINE OF PARKING BAY UNLESS NOTE OTHERWISE.
9. SEE PARKING PLAN SHEETS FOR PAVEMENT SPECS.
10. BUILDING AND CANOPY FOUNDATION AND FOUNDATIONS, BUILDING ENTRANCE PLATFORMS, PORCHES, PADS, BUILDING DIMENSIONS, UTILITY ENTRANCE POINTS, SIDEWALK, ADJACENT TO THE BUILDING, AND LOADING DOCK RAMPS/PLATFORMS ARE DETAILED AND SPECIFIED ON THE ARCHITECTURAL DRAWINGS.
11. PROVIDE EXPANSION JOINTS AT ALL RADIUS POINTS IN CONCRETE CURB AND GUTTER AND AS SHOWN ON THE DETAILS, OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE.
12. THE CONTRACTOR IS TO PROVIDE TRASH RECEPTACLES FOR USE OF SUBCONTRACTORS AND THEIR EMPLOYEES. ALL DUMPSTER SHOULD BE LOCATED OFF STREETS AND NOT OF WAYS. BUILDING PERMITS ARE REQUIRED FOR ANY USE OF THE STREET RIGHT OF WAYS.
13. PROVIDE CONTAINERS FOR GARBAGE AND WASTE TRASH IN EATING AREAS, IN PARKING LOTS, AND ALONG WALKWAYS.
14. SERVICE TRASH CONTAINERS ADEQUATELY.
15. KEEP STREETS AND AREAS ADJACENT TO THE JOB SITE CLEAN AND FREE OF TRASH AND MUD ORIGINATING FROM THE SITE.
16. REQUIRE ALL WASTE HAULERS TO COVER PAYLOADS BEFORE LEAVING SITE.
17. CONTRACTOR IS RESPONSIBLE TO ANY DAMAGE TO STREETS, SIDEWALKS, CURB AND GUTTERS OF ANY OTHER PUBLIC PROPERTIES DURING NOTE.

RESPONSIBILITY:

THE CONTRACTOR, OR THE PERSON/PERSONS ON THE GROUND, SHALL NOT DIRECT OR WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO AUTHORITY TO STOP WORK, SHALL HAVE NO SUPERVISION OR CONTROL AS TO THE WORK OF PERSONS DOING THE WORK, SHALL NOT HAVE CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY AS ON OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OF ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS OR OTHER WORK AIDS, AND SHALL HAVE NO DUTIES OR RESPONSIBILITIES IMPOSED BY THE STRUCTURAL WORK ACT.

PERMITS, BONDS, AND INSPECTIONS:

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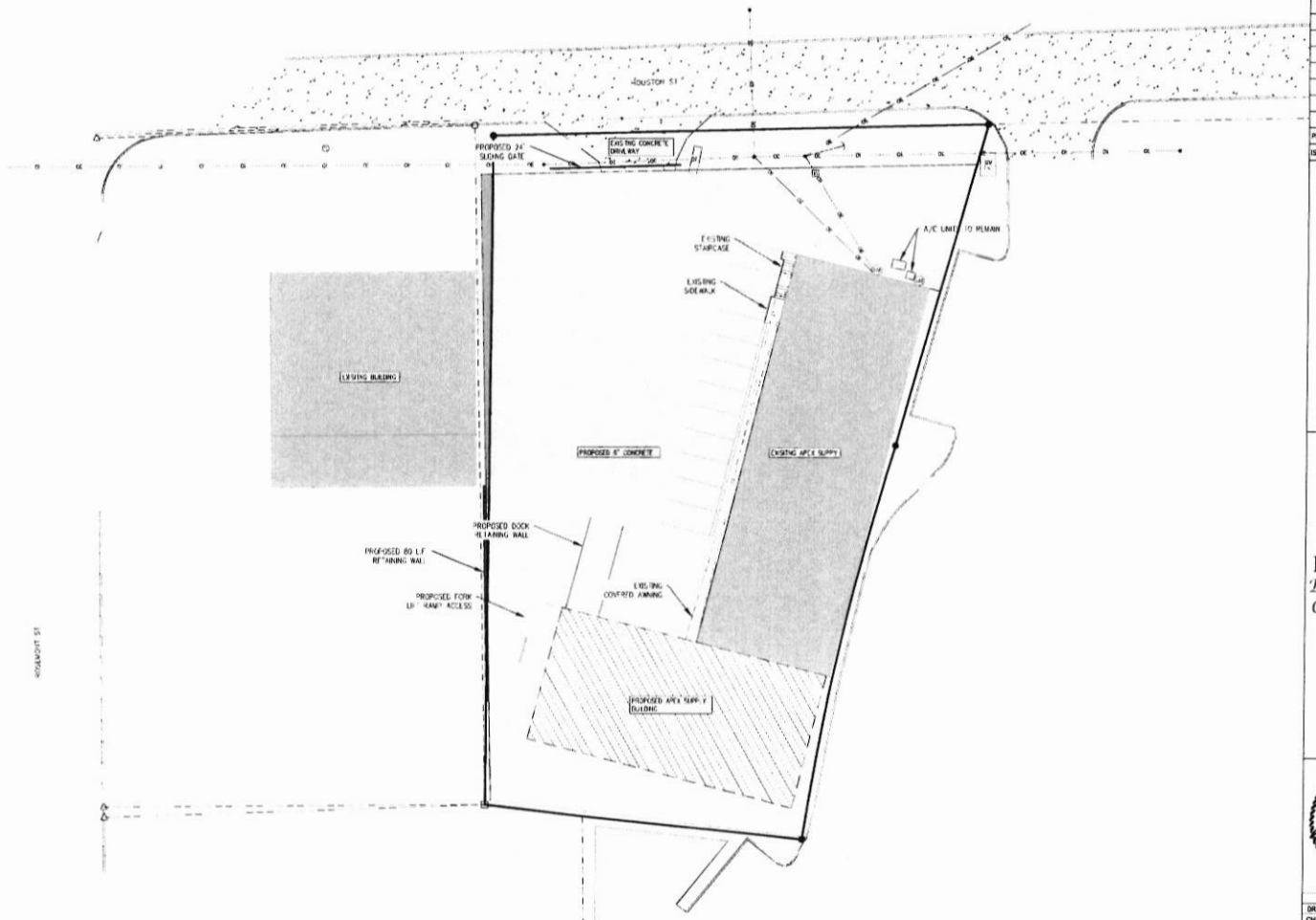

PERMIT SET	5/13/2024
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APEX SUPPLY

SULPHUR SPRINGS, TX

DYNAMIC Engineering Consultants PLLC

PROFESSIONAL ENGINEERING SERVICES

260 S. HILLCREST, SUITE C
SULPHUR SPRINGS, TX
75483

STATE OF TEXAS
JAMES M. BURNETT
93832
LICENSED
PROFESSIONAL ENGINEER

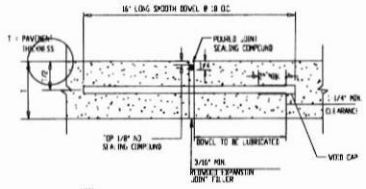
ENGINEERING SEAL

	NAME	DATE
DRAWN	[illegible]	[illegible]
CHECKED		
ENG APPR.	JM BURNETT	[illegible]
Q.A.		

PAVING PLAN

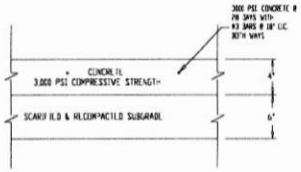
PROJECT # 10240

SHEET NUMBER C101



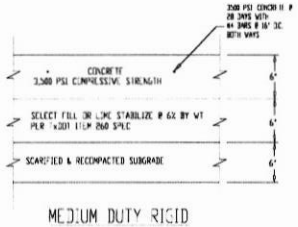
NOTE
1. DOWELS SHALL BE SUPPORTED BY AN APPROVED DEVICE.
2. TO BE PLACED ON A GRID PATTERN WITH MAX. OF 100' O.C.E.W.

PAVEMENT EXPANSION JOINT



SIDEWALK SECTION

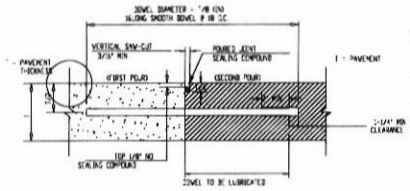
SCALE: NONE



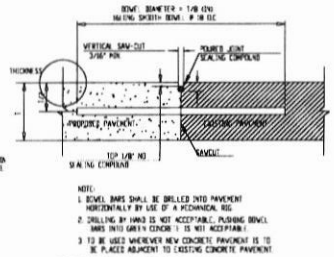
MEDIUM DUTY RIGID

SCALE: NONE

CONCRETE PAVEMENT SECTIONS

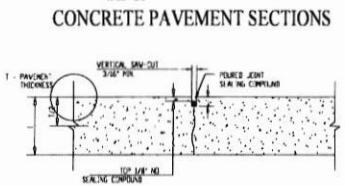


PAVEMENT CONSTRUCTION JOINT

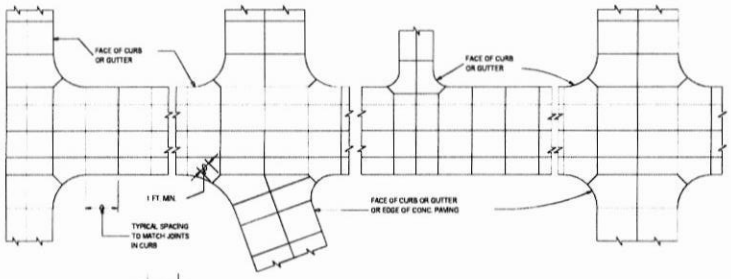


NOTE:
1. DOWEL BARS SHALL BE DRILLED INTO PAVEMENT HORIZONTALLY BY USE OF A MECHANICAL RIG.
2. DRILLING BY HAND IS NOT ACCEPTABLE. PUSHING DOWEL BARS INTO GREEN CONCRETE IS NOT ACCEPTABLE.
3. TO BE USED WHEREVER NEW CONCRETE PAVEMENT IS TO BE PLACED ADJACENT TO EXISTING CONCRETE PAVEMENT.

PAVEMENT BUTT JOINT



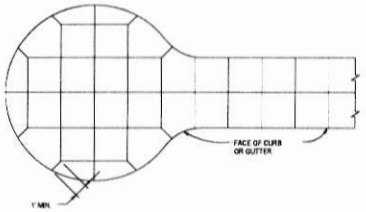
PAVEMENT CONTROL JOINT



a/b=1.25 MAXIMUM

JOINT SPACING

CONTRACTION JOINT DETAIL FOR CONCRETE PAVING



NOTES

1. ALL TRANSVERSE CONTRACTION JOINTS SHALL MATCH AND ALIGN WITH JOINTS IN CURB AND GUTTER UNLESS PAVING AND CURBS ARE SEPARATED BY AN ISOLATION JOINT. JOINTS IN CUL DE SAC CURB SHOULD BE PLANNED TO MATCH JOINT PATTERN IN PAVING.
2. MAXIMUM JOINT SPACING IN FEET SHALL BE 3 TIMES THE PAVEMENT THICKNESS IN INCHES.
3. SPECIAL TREATMENT WILL BE REQUIRED FOR JOINTING ADJACENT TO MANHOLES, VAULTS, OR OTHER STRUCTURES INTRUDING INTO PAVING SURFACE.

PERMIT SET:	5/13/2024
ISSUED FOR	DATE

APEX SUPPLY

SULPHUR SPRINGS, TX

DYNAMIC Engineering Consultants PLLC

PROFESSIONAL ENGINEERING SERVICES

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STATE OF TEXAS
JAMES W. BURNETT
93832
LICENSED PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
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CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

PAVING DETAILS

PROJECT # 10240

SHEET NUMBER C200

GENERAL

1. THE CONSTRUCTION OF THE FOUNDATION SHALL CONFORM TO THE FOLLOWING STANDARDS AS APPLICABLE
   a) INTERNATIONAL BUILDING CODE, LATEST EDITION
   b) STANDARD REQUIREMENTS FOR ANALYSIS OF SHALLOW CONCRETE FOUNDATIONS ON EXPANSIVE SOILS, PTI, 2012, 1ST EDITION
   c) STANDARD REQUIREMENTS FOR DESIGN OF SHALLOW CONCRETE FOUNDATIONS ON EXPANSIVE SOILS, PTI, 2012, 1ST EDITION
   d) LOCAL BUILDING STANDARDS
2. THE DESIGN IS BASED ON THE SUB-SURFACE INVESTIGATION PERFORMED BY DYNAMIC ENGINEERING CONSULTANTS. REFERENCE GEO-TECHNICAL REPORT NO. DYNGEO-10242, DATED APRIL 15, 2024 FOR BUILDING SUB-GRADE PREPARATION.
   a) DRAINAGE:
      i. SLOPE FINISHED GRADE AWAY FROM EXTERIOR GRADE BEAMS AT A MINIMUM RATE OF 6" PER 10'. ALL EXTERIOR GRADE BEAM HEIGHTS MUST BE A MINIMUM OF 8" ABOVE THE FINISHED EXTERIOR GRADE.
3. STRUCTURAL DESIGN LOADS
   a) FLOOR LOADS
      i. DEAD — 10 PSF
      ii. LIVE — 40 PSF
   b) WALL LOADS
      i. EXTERIOR — 15 PSF
      ii. INTERIOR — 10 PSF
   c) CEILING LOADS (LIMITED ATTIC STORAGE)
      i. DEAD — 10 PSF
      ii. LIVE — 20 PSF
   d) ROOF LOADS
      i. DEAD — 15 PSF
      ii. LIVE — 20 PSF
   e) 6" CONCRETE — 102 PSF
   f) SNOW GROUND LOAD — 5 PSF
   g) WIND: 3 SECOND GUST AT 105 MPH, EXPOSURE B
4. THE BUILDER SHALL BE RESPONSIBLE FOR PROVIDING POSITIVE DRAINAGE FOR WATER AWAY FROM THE FOUNDATION DURING AND AFTER CONSTRUCTION. THE FINISHED GRADE AWAY FROM FOUNDATION EDGES SHALL FALL A MINIMUM OF 6 INCHES WITHIN THE FIRST 10 FEET.
5. THE CONTRACTOR SHALL VERIFY ALL EDGE FORM SETTING DIMENSIONS AS WELL AS THE LOCATION OF ELEVATION CHANGES, OFF SETS, BRICK LEDGES, AND BLOCK-OUTS WITH THE ARCHITECTURAL/PEMB DRAWINGS AND NOTIFY THE DESIGN ENGINEER OF ANY DISCREPANCIES THAT MAY EXIST ON THE FOUNDATION DESIGN DRAWINGS PRIOR TO COMMENCING CONSTRUCTION. IN THE EVENT THAT A DISCREPANCY OCCURS THE ARCHITECTURAL/PEMB DRAWINGS SHALL TAKE PRECEDENCE OVER THE FOUNDATION DRAWINGS. DYNAMIC ENGINEERING CONSULTANTS WILL NOT BE HELD RESPONSIBLE FOR ERRORS ASSOCIATED WITH EDGE FORM SETTING DIMENSIONS AS WELL AS THE LOCATION OF ELEVATION CHANGES, OFF SETS, BRICK LEDGES, PLUMBING, ELECTRICAL, AND BLOCK-OUTS. THIS INFORMATION, IF PROVIDED ON THE FOUNDATION DRAWING, IS FOR REFERENCE ONLY.
6. THE CONTRACTOR SHALL COORDINATE THE LOCATION OF ANCHOR BOLTS, HOLD DOWN DEVICES, MECHANICAL AND PLUMBING SLEEVES, AND OTHER RELATED ITEMS REQUIRED TO COMPLETE THE FOUNDATION AND NOTIFY THE DESIGN ENGINEER SHOULD CONFLICTS EXIST WITH THE INFORMATION CONTAINED IN THE FOUNDATION DESIGN DRAWINGS.

SITE PREPARATION NOTES

1. IT IS THE CONTRACTORS RESPONSIBILITY TO LOCATE ANY EXISTING UTILITIES PRIOR TO EXCAVATING. THE CONTRACTOR SHALL EXERCISE CAUTION WHILE EXCAVATING TO AVOID CUTTING OR DAMAGING UNDERGROUND UTILITY LINES. THE CONTRACTOR SHALL INFORM UTILITY OWNERS IN ADVANCE TO ENABLE THEM TO IDENTIFY AND LOCATE REROUTE OR TO MAKE OTHER ADJUSTMENTS N ORDER FOR WORK TO PROCEED WITH MINIMUM DELAYS.
2. ALL FOUNDATION EXCAVATIONS SHOULD BE PROPERLY MONITORED TO ASSURE THAT UNDESIRABLE (LOOSE) MATERIALS ARE REMOVED.
3. EXPOSED SOILS SHOULD BE PROTECTED AGAINST RAIN AND EXCESSIVE DRYING.
4. SELECT FILL MATERIAL SHALL BE COMPACTED ACCORDING TO THE PROJECTS GEOTECHNICAL REPORT, IF PROVIDED.
5. SITE GRADING AND DRAINAGE AROUND THE FOUNDATION SHALL BE MAINTAINED AT ALL TIMES IN SUCH A MANNER THAT SURFACE OF GROUND WATER WILL NOT COLLECT AROUND OR UNDER THE SLAB. IF WATER COLLECTS ON SITE, THE SITE SOILS ENGINEER SHALL BE CONTACTED FOR CORRECTIVE ACTION. IF TREES OR HIGH DENSITY BRUSH ARE REMOVED, CONTRACTOR SHALL FOLLOW GUIDELINES FOR PAD PREPARATION OUTLINED BY THE SOILS ENGINEER. TREES WHOSE CANOPY EXTENDS OVER THE SLAB ARE NOT ADVISED SINCE ROOT SYSTEMS COULD EXTEND UNDER THE SLAB.

MATERIALS

1. FILL MATERIAL SHALL CONFORM TO THE RECOMMENDATIONS OF THE GEOTECHNICAL INVESTIGATION CONCERNING TYPE, COMPACTION, LIFT THICKNESS, AND PLACEMENTS REQUIREMENTS (REF GENERAL NOTE 2).
2. NON-PRESTRESSED REINFORCEMENT SHALL BE ASTM A615 GRADE 60.
3. CONCRETE SHALL BE TYPE I OR TYPE II UNLESS OTHERWISE SPECIFIED IN THE GEOTECHNICAL INVESTIGATION REPORT, IF PROVIDED. USE NORMAL WEIGHT AGGREGATES HAVING A MAXIMUM AGGREGATE SIZE OF 1-1/2". CONCRETE SHALL OBTAIN A MINIMUM COMPRESSIVE STRENGTH OF 3000 PSI FOR PIERS & 4000 PSI FOR GRADE BEAMS, PIER CAPS, FLOOR SLABS & CONCRETE ON METAL DECK AT 28 DAYS. THE MINIMUM CEMENT CONTENT SHALL BE 470 LBS/CUBIC YARD, AND THE SLUMP SHALL NOT EXCEED 5" UNLESS SPECIFIC HIGH RANGE WATER REDUCERS AND OTHER ADDITIVES ARE USED. ADDITIVES CONTAINING CALCIUM CHLORIDES ARE PROHIBITED. AIR ENTRAINMENT MAY BE REQUIRED FOR FOUNDATIONS CAST ON SOILS WITH HIGH LEVELS OF WATER-SOLUBLE SULFATES.
4. ALL W-SHAPES SHALL COMPLY WITH ASTM A992, WITH A MINIMUM YIELD STRENGTH OF Fy = 50 KSI.
5. ALL SQUARE AND RECTANGULAR HSS SHAPES SHALL COMPLY WITH ASTM A500 GRADE C.
6. ALL STEEL PIPES (COLUMNS), IF APPLICABLE, SHALL COMPLY WITH ASTM A53, TYPE E OR S, GRADE B.
7. ALL ROLLED STEEL PLATES SHALL CONFORM ASTM A572, GRADE 50 MATERIAL.
8. ALL MISCELLANEOUS STEEL SHAPES SHALL CONFORM ASTM A36, WITH A MINIMUM YIELD STRENGTH OF Fy = 36 KSI.

CONSTRUCTION

1. PROVIDE CONCRETE COVERAGE FOR REINFORCING STEEL BARS AS FOLLOWS
   a. PIERS & PIER CAPS — 3" CLEAR
   b. GRADE BEAMS — 2" CLEAR TO TIES ON TOP AND SIDES
   c. GRADE BEAMS — 3" CLEAR TO TIES ON BOTTOM
   d. SLABS ON FILL/VOIDS — 2" CLEAR TO TOP & 1-1/2" TO BOTTOM
   e. ELEVATOR PIT WALLS — 2" CLEAR
2. TENDONS AND REBAR SHALL BE ADEQUATELY SUPPORTED TO PREVENT BOTH VERTICAL AND HORIZONTAL MOVEMENT DURING CONCRETE PLACEMENT.
3. THE CONCRETE PLACEMENT OPERATION SHALL BE COMPLETED IN ONE CONTINUOUS OPERATION UNLESS OTHERWISE SPECIFIED ON THE FOUNDATION DESIGN DRAWINGS.
4. CONCRETE SHALL BE PROPERLY CONSOLIDATED ESPECIALLY AROUND PRE-ENGINEERED METAL BUILDING ANCHORAGES TO ELIMINATE VOIDS AND HONEYCOMBING. CARE SHALL BE EXERCISED NOT TO OVER OR UNDER VIBRATE CONCRETE IN THE ANCHORAGE ZONE AREAS. MECHANICAL VIBRATORS SHALL BE USED TO VIBRATE ALL CONCRETE BEAMS, WALLS, FOOTINGS, & PIERS.
5. CONSTRUCT FOUNDATION PIERS, IF APPLICABLE, IN ACCORDANCE WITH ACI 336, STANDARD SPECIFICATIONS FOR THE CONSTRUCTION OF DRILLED PIERS, LATEST EDITION.
6. UNDER INTERIOR BUILDING SLAB ON FILL, PLACE A 15 MIL VAPOR BARRIER BETWEEN COMPACTED SELECT FILL AND SLAB. IF VOID FORMS ARE USED, PLACE THE VAPOR BARRIER BETWEEN THE VOID FORMS AND SLAB.
7. FOUNDATION MUST PENETRATE A MINIMUM OF 12" INTO UNDISTURBED SOIL.
8. IF VOID FORMS ARE SPECIFIED, FOLLOW MANUFACTURER'S INSTRUCTIONS FOR ASSEMBLY AND PLACEMENT.
9. CONSTRUCT ALL REINFORCED CONCRETE TO COMPLY WITH RECOMMENDATIONS OF ACI 318-05 AND ACI 301-05 UNLESS OTHERWISE NOTED OR SPECIFIED.
10. INSTALL NON-PRESTRESSED REINFORCING STEEL, WHEN DIRECTED ON THE FOUNDATION DESIGN DRAWING, AS FOLLOWS UNLESS SPECIFIED OTHERWISE
    a. HORIZONTAL BARS IN BEAMS, WALLS, AND FOOTINGS — #6
    b. VERTICAL BARS AT CORNERS AND INTERSECTIONS — #4
    c. INTERCONNECTS (DOWELS, Z BAR, L BAR, NOSE BAR) — #4@16" O.C.
    d. SLABS ON FILL/VOIDS — #4@16" O.C.
    e. STIRRUPS — #3@16" O.C.
    f. VERTICAL PIER BARS — #6
11. DEVELOPMENT LENGTH, LD (EMBEDMENT LENGTH) = MINIMUM OF 32 BAR DIAMETERS UNLESS SPECIFIED OTHERWISE.
12. INSTALL #5 HORIZONTAL BARS @ 16" O.C. STARTING FROM 6" BELOW TOP SURFACE IN BEAMS, WALLS, AND FOOTINGS WHEN HEIGHT EXCEEDS 36"
13. ANCHOR BOLT ASSEMBLIES SHALL CONSIST OF ASTM F1554, GRADE 36, HEX HEAD BOLTS, A563 GRADE A STEEL NUTS, AND FLAT HARDENED ASTM F436 STEEL WASHERS.
14. MINIMUM ANCHOR BOLT EMBEDMENT SHALL BE 12 BOLT DIAMETERS, UNLESS NOTED OTHERWISE. CLEAN ANCHOR BOLTS OF ALL GREASE, DIRT, ETC. BEFORE INSTALLATION. SPACE @ 48" O.C.
15. ALL FILL SHALL BE PLACED IN ACCORDANCE WITH F.H.A. DATA SHEET 196 AND/OR A SOILS ENGINEERS SPECIFICATIONS AND COMPACTED TO 93% PROCTOR DENSITY.
16. BEAM TRENCHES SHALL BE CLEAN AND SIZED PER PLAN.
17. A MINIMUM 12" OF SELECT FILL SHALL BE PLACED UNDER ALL SLABS.
18. THERE SHALL BE A LAYER OF 10 MIL POLY, WITH LAPPED JOINTS, BETWEEN THE SUBGRADE AND THE SLAB.
19. CONSTRUCTION JOINTS SHALL NOT BE PERMITTED UNLESS NOTED ON THE PLAN.
20. TENDONS AND BARS SHALL BE SUPPORTED ON CHAIRS SPACES AT 4' INTERVALS AND TIED AT ALL INTERSECTIONS TO PREVENT MOVEMENT DURING CONCRETE PLACEMENT. USE OF S-HOOKS SHALL NOT BE PERMITTED.
21. TRENCHES FOR PLUMBING SHALL NOT BE LOCATED DIRECTLY UNDER BEAMS. PLUMBING TRENCHES SHALL BE LOCATED BETWEEN BEAMS AND CROSS AT RIGHT ANGLES UNDER BEAMS.
22. UPON COMPLETION OF THE FINAL GRADING, ALL BEAMS SHALL HAVE A MINIMUM COVER OF 12".
23. CONCRETE SHALL BE VIBRATED TO ENSURE CONSOLIDATION AROUND TENDON ANCHORAGES.
24. SLAB STRAND IF APPLICABLE LOCATIONS MAY BE PLACED WITHIN 8" OF PLAN LOCATION TO MAINTAIN PROPER CLEARANCES.
25. COORDINATE STRUCTURAL DRAWINGS WITH ARCHITECTURAL DRAWINGS FOR ALL OPENINGS, DROP, INSERTS, SLOPES, BRICK LEDGES AND OTHER RELATED ITEMS.
26. IF SOLID ROCK IS ENCOUNTERED DURING TRENCHES OF BEAMS, BEAM DEPTH MAY BE REDUCED, BUT MUST MAINTAIN A MINIMUM OF 12" SOIL COVER UPON FINAL GRADE.
27. PLUMBING LINES SHALL NOT BE LOCATED PARALLEL TO THE INSIDE OF THE BEAMS.
28. SIDEWALKS AND DRIVES SHALL BE GRADED TO SLOPE AWAY FROM THE FOUNDATION TO ELIMINATE AND PREVENT PONDING OF WATER.
29. SAND OR GRAVEL BEDDING MATERIAL FOR UTILITIES SHALL NOT BE USED WITHIN 5' OF FOUNDATION EDGE. A CLAY PLUG SHALL BE PROVED TO PREVENT WATER FILTRATION UNDER SLAB.
30. WATER CUTOFF VALVES AND PIPE TRANSITIONS SHALL NOT BE INSTALLED WITHIN 5' OF FOUNDATION EDGE.
31. SECOND FLOOR SHALL NOT HAVE EXTRA CONCRETE IMPLEMENTED FOR LEVELING THE FLOOR.
32. WELDING SHALL BE PERFORMED BY WELDERS HOLDING VALID CERTIFICATES, IN ACCORDANCE WITH SECTION 4 OF THE AWSD1.1 "STRUCTURAL WELDING CODE-STEEL", AND HAVING CURRENT EXPERIENCE IN THE TYPE OF WELDS AS SHOWN ON THE DRAWINGS. WELDS SHALL BE PERFORMED USING E70XX SERIES LOW HYDROGEN RODS. WELDS SHALL BE VISUALLY INSPECTED IN ACCORDANCE WITH SECTIONS 6.5 AND 6.9 OF THE AWSD1.1 "STRUCTURAL WELDING CODE-STEEL". VISUAL INSPECTIONS OF WELDS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY. UNLESS NOTED OTHERWISE ON THE PLANS, SHOP FABRICATED OR FIELD ASSEMBLED ADJOINING STEEL MEMBERS SHALL BE CONNECTED USING CONTINUOUS, ALL AROUND/BOTH SIDES OF MEMBER FILLET WELDS IN ACCORDANCE WITH THE MINIMUM SIZE FILLET WELD SHOWN IN THE TABLE BELOW, UNLESS NOTED OTHERWISE ON THE PLANS. THE CONTRACTOR MAY SHOP WELD OR FIELD WELD AT THEIR DISCRETION.

MINIMUM SIZE OF FILLET WELDS	
MATERIAL THICKNESS OF THINNER PART JOINED (IN.)	MINIMUM SIZE OF FILLET WELD (IN.)
TO 1/4 INCLUSIVE	3/16
OVER 1/4 TO 1/2	1/4
OVER 1/2 TO 3/4	5/16
OVER 3/4	3/8
LEG DIMENSION OF FILLET WELDS. SINGLE PASS WELDS MUST BE USED.	

STRUCTURAL STEEL

1. ALL STRUCTURAL STEEL SHALL BE FABRICATED AND ERECTED IN CONFORMANCE WITH THE REQUIREMENTS OF THE LATEST EDITION OF THE AISC "MANUAL OF STEEL CONSTRUCTION".
2. STRUCTURAL STEEL SHALL CONFORM TO THE 2010 "SPECIFICATIONS FOR STRUCTURAL STEEL BUILDINGS" OF THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION, AISC 360-10.
3. THE MAIN FRAMING IS TO BE A SIMPLE SYSTEM TYPE WITH CONNECTIONS AS SHOWN ON AND NOTED ON THE DRAWINGS, UNLESS OTHERWISE SHOWN OR NOTED, CONNECTIONS AT NON-CONTINUOUS JOINTS ARE TO BE DETAILED IN CONFORMANCE WITH THE 15TH EDITION AISC "MANUAL OF STEEL CONSTRUCTION". CONNECTIONS SHALL BE DESIGNED FOR THE END REACTION OF BEAMS AS TABULATED IN PART 3 (ASD) OR AS SHOWN ON DETAILS OR NOTED ON PLANS. FIELD CONNECTIONS AT NON-CONTINUOUS JOINTS ARE TO BE BOLTED OR WELDED, SHOP CONNECTIONS TO BE WELDED OR BOLTED.
4. BOLTED BEAM CONNECTIONS SHALL BE SIMPLE FRAMED SHEAR CONNECTIONS USING ASTM A325N BOLTS AND SHALL BE IN ACCORDANCE WITH THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS." JOINT TYPE 6 FOR SIMPLE FRAMED SHEAR CONNECTIONS SHALL BE "SNUG-TIGHTENED JOINTS" AND SHALL BE INSTALLED AND VISUALLY INSPECTED PER SECTIONS 8.1 AND 9.1 RESPECTIVELY OF THE "SPECIFICATION FOR STRUCTURAL JOINTS USING HIGH STRENGTH BOLTS." VISUAL INSPECTION OF BOLTED CONNECTIONS SHALL BE PERFORMED BY AN INDEPENDENT TESTING AGENCY, UNLESS NOTED OTHERWISE IN THE CONSTRUCTION DOCUMENTS THE CONNECTIONS MUST BE DESIGNED TO SUPPORT ONE-HALF THE TOTAL UNIFORM LOAD CAPACITY SHOWN IN THE "MAXIMUM UNIFORM LOAD TABLES" SHOWN IN PART 3 OF THE AISC MANUAL OF STEEL CONSTRUCTION. DIRECT TENSION INDICATOR (DTI) BOLTS SHALL BE PERMITTED. THE STEEL FABRICATOR SHALL PROVIDE CONNECTION DESIGN CALCULATIONS SEALED AND SIGNED BY A REGISTERED ENGINEER LICENSED IN THE STATE OF TEXAS FOR CONNECTIONS NOT SPECIFICALLY DETAILED ON THESE STRUCTURAL DRAWINGS.
5. IN FRAMED BEAM CONNECTIONS, WELDS MAY BE SUBSTITUTED FOR BOLTED CONNECTIONS IN ACCORDANCE WITH TABLE 10-2 OF THE AISC MANUAL OF STEEL CONSTRUCTION. TO OBTAIN AN ALL WELDED CONNECTION IT IS RECOMMENDED SUCH CONNECTIONS BE CHOSEN FROM TABLE 10-2 OF THE AISC MANUAL OF STEEL CONSTRUCTION.
6. ALL EXPOSED STEEL FRAMING AND EMBED PLATES SHALL RECEIVE A HOT DIP GALVANIZED COATING. ANY DAMAGE TO THE HOT DIPPED GALVANIZED COATING CAUSED BY HANDLING OR ASSEMBLING THE STEEL FRAMING OR DUE TO WELDING THE STEEL TOGETHER SHALL BE REPAIRED USING LANCO GALVACON GC-243 OR APPROVED EQUAL.
7. THE CONTRACTOR SHALL REVIEW SHOP AND FIELD WELD REQUIREMENTS FOR COMPATIBILITY WITH THE CONSTRUCTION SEQUENCE. PROPOSED REVISIONS FROM SHOP TO FIELD WELDS OR FROM FIELD TO SHOP WELDS SHALL BE IDENTIFIED BY THE CONTRACTOR ON THE SHOP DRAWINGS.
8. CONTRACTOR SHALL PROVIDE PROTECTION FOR CONSTRUCTION DURING FIELD WELDING OPERATIONS. A FIRE EXTINGUISHER SHALL BE ON THE JOB SITE AND IN THE IMMEDIATE WORKING AREA OF FIELD WELDING.
9. ERECTION TOLERANCES SHALL CONFORM TO THE AISC CODE OF STANDARD PRACTICE EXCEPT THAT THE MAXIMUM TOTAL DISPLACEMENT AT THE CENTER LINES OF ANY COLUMN FROM THE ESTABLISHED COLUMN CENTER LINES SHALL NOT EXCEED 1/2" INCH AT ANY LEVEL.
10. A RECOGNIZED TESTING LABORATORY, REVIEWED BY THE STRUCTURAL ENGINEER, SHALL BE ENGAGED FOR THE PURPOSE OF FIELD INSPECTION. THE LABORATORY SHALL ASSURE THAT APPROVED WELDING MATERIALS AND SEQUENCES ARE USED, AND SHALL CERTIFY IN WRITING THAT THE QUALITY AND STRENGTH REQUIREMENTS OF ALL CONNECTIONS HAVE BEEN ATTAINED AND THAT ALL TOLERANCES ARE WITHIN SPECIFIED LIMITS.
11. PROVIDE MINIMUM 1/4" CAP PLATE AT ENDS OF ALL TUBE STEEL MEMBERS, UNLESS OTHERWISE NOTED.
12. CONNECT MISCELLANEOUS STEEL MEMBERS USING FILLET WELDS SUFFICIENT TO DEVELOP THE TENSILE STRENGTH OF THE SMALLER MEMBER AT THE JOINT UNLESS SHOWN OTHERWISE.
13. GROUT BELOW STRUCTURAL STEEL BASE PLATES SHALL BE NON-METALLIC, NON-SHRINK GROUT WITH A MINIMUM STRENGTH OF 6000 PSI WHEN BEARING ON 3000 PSI CONCRETE OR LESS, A STRENGTH OF 8000 PSI WHEN BEARING ON CONCRETE GREATER THAN 3000 PSI UNLESS NOTED OTHERWISE.

INSPECTION

INSPECTION SHALL BE CARRIED OUT BY AN INDEPENDENT INSPECTION AGENCY OR A REPRESENTATIVE OF THE DESIGN ENGINEER. THE INSPECTIONS SHALL CONSIST OF:

1. PRIOR TO CONCRETE PLACEMENT
   a) RIB SIZE AND SPACING (OR THICKNESS OF UNIFORM THICKNESS FOUNDATION)
   b) SLAB THICKNESS
   c) REBAR SIZE, GRADE, NUMBER OF BARS, AND SPACING
   d) ADEQUATE COVER OVER REINFORCEMENT
2. DURING CONCRETE PLACEMENT
   a) THE PROPER MIX DESIGN IS SUPPLIED AND THAT EXCESS WATER IS NOT ADDED AT THE SITE
   b) THE REINFORCEMENT IS NOT DISPLACED
   c) CORRECT CONSOLIDATION PROCEDURES ARE FOLLOWED

SPECIAL CONSIDERATIONS FOR SLAB-ON-GROUND CONSTRUCTION

1. TREES OR OTHER VEGETATION TALLER THAN 6 FT. OR OF THE TYPE THAT REQUIRES EXCESSIVE AMOUNTS OF WATER SHOULD NOT BE PLANTED WITHIN 20 FT. OF THE FOUNDATION.
2. LANDSCAPING SHOULD BE PLANNED SUCH THAT ADEQUATE MOISTURE CAN REACH AND BE DRAINED FROM AROUND THE FOUNDATION.
3. IT IS IMPORTANT TO UNDERSTAND THAT THE PERFORMANCE OF THE FOUNDATION IS LINKED DIRECTLY TO THE CONSISTENCY OF THE MOISTURE CONTENT IN THE SOIL AND THAT POSITIVE DRAINAGE SHOULD BE MAINTAINED DURING AND AFTER CONSTRUCTION.

NOTES TO OWNER

1. UNDER NORMAL CONDITIONS, AND FOR CONVENTIONAL BUILDINGS SUCH AS THE SUBJECT MATTER, REINFORCED CONCRETE AS WELL AS POST-TENSIONED CONCRETE DEVELOP CRACKS. THE CRACKS ARE DUE TO THE INHERENT SHRINKAGE OF CONCRETE, CREEP, AND RESTRAINING EFFECTS OF VERTICAL AND OTHER STRUCTURAL ELEMENTS TO WHICH THE BEAMS/SLABS ARE TIED.
2. THE CRACKS FORMED ARE NORMALLY COSMETIC. THE SLAB MAINTAINS ITS SERVICEABILITY AND STRENGTH REQUIREMENTS. IT IS EMPHASIZED THAT ALTHOUGH SPECIAL EFFORT IS MADE TO REDUCE THE POTENTIAL CAUSES AND NUMBER OF SUCH CRACKS, IT IS NOT PRACTICAL TO COMPLETELY ELIMINATE TENSILE STRESS IN THE FOUNDATION AND THEREBY COMPLETELY ELIMINATE ALL CRACKS.
3. MOST SUCH CRACKS DEVELOP OVER THE FIRST THREE YEARS OF THE LIFE OF THE FLOOR SYSTEM. CRACKS WHICH ARE WIDER THAN 0.125 INCH MAY NEED TO BE PRESSURE EPOXY.
4. THE OBJECT OF THE JOINTS PROVIDED IS TO ALLOW MOVEMENT. MOVEMENTS DUE TO CREEP AND SHRINKAGE MAY BE NOTICEABLE AT JOINTS UP TO TWO YEARS AFTER CONSTRUCTION, BEYOND WHICH MOVEMENTS DUE TO VARIATIONS IN TEMPERATURE WILL PERSIST.
5. OWNER MUST ENSURE THAT MOISTURE CONTENT OF THE SOIL IS MAINTAINED AT A CONSTANT LEVEL. DRAINAGE SHALL BE MAINTAINED SUCH THAT PONDING OF WATER DOES NOT DEVELOP. IF WATER IS PERSISTENT, BUILDER SHOULD BE CONTACTED TO IMPROVE DRAINAGE. MOISTURE VARIATION IS THE MOST COMMON SOURCE OF SLAB DISTRESSED.
6. OWNER SHOULD NOT PLANT TREES ADJACENT TO THE SLAB SUCH THAT THE ROOT SYSTEM CAN GET UNDER THE SLAB.
7. OWNER SHOULD CONTINUALLY INSPECT THE SLAB DURING HOT OR DRY PERIODS TO ENSURE THAT WATERING IS ADEQUATE SUCH THAT SOIL IS NOT SEPARATING OR PULLING BACK FROM THE SLAB.
8. TREES AND SHRUBS SHOULD NOT BE LOCATED CLOSER TO THE FOUNDATION THAN A HORIZONTAL DISTANCE EQUAL TO ROUGHLY ½ OF THE TREES OR SHRUBS MATURE HEIGHT.
9. IRRIGATION SYSTEMS SHALL NOT SPRAY DIRECTLY ON FOUNDATION.
10. LANDSCAPING SHALL NOT AFFECT FINAL GRADE. EXCAVATION OF SOILS ADJACENT TO FOUNDATION FOR PURPOSE OF LANDSCAPING ARE PROHIBITED. LANDSCAPING SHALL BE PLACED ON TOP OF FINAL GRADE. SOLID LANDSCAPE EDGING SHALL NOT BE USED.

LIMITATIONS

THE FOUNDATION DESIGN INFORMATION AND DETAILED DRAWINGS SUBMITTED TO THE CUSTOMER ARE BASED ON THE AVAILABLE SUBSURFACE INFORMATION OBTAINED BY DYNAMIC ENGINEERING CONSULTANTS AND DESIGN DETAILS FURNISHED BY THE CUSTOMER FOR THE PROPOSED PROJECT. IF THERE ARE ANY REVISIONS TO THE PLANS FOR THIS PROJECT, OR IF DEVIATIONS FROM THE SUBSURFACE CONDITIONS NOTED IN THIS REPORT ARE ENCOUNTERED DURING CONSTRUCTION, DYNAMIC ENGINEERING CONSULTANTS SHOULD BE NOTIFIED IMMEDIATELY TO DETERMINE IF CHANGES IN THE FOUNDATION DESIGN ARE REQUIRED. IF DYNAMIC ENGINEERING IS NOT NOTIFIED OF SUCH CHANGES, DYNAMIC ENGINEERING WILL NOT BE RESPONSIBLE FOR THE IMPACT OF THOSE CHANGES ON THE PROJECT.

THE PROFESSIONAL ENGINEER WARRANTS THAT THE FINDINGS, RECOMMENDATIONS, SPECIFICATIONS, OR PROFESSIONAL ADVICE SUBMITTED TO THE CUSTOMER HAVE BEEN MADE IN ACCORDANCE WITH GENERALLY ACCEPTED PROFESSIONAL ENGINEERING PRACTICES IN THE LOCAL AREA. NO OTHER WARRANTIES ARE IMPLIED OR EXPRESSED.

DYNAMIC ENGINEERING CONSULTANTS, PLLC. DOES ADVISE ALL CONTRACTORS THAT INSPECTION SERVICES ARE AVAILABLE PRIOR TO CONSTRUCTION AND DURING CONSTRUCTION. IF THESE INSPECTIONS ARE NOT PREFORMED BY DYNAMIC ENGINEERING CONSULTANTS, DYNAMIC ENGINEERING ACCEPTS NO RESPONSIBILITY WHATSOEVER FOR THE IMPROPER IMPLEMENTATION OF ITS PLANS AND SPECIFICATION. THEREFORE, DYNAMIC ENGINEERING WILL NOT HAVE ANY OBLIGATION TO ENSURE THAT THE PLANS AND SPECIFICATIONS PROVIDED WERE FOLLOWED CORRECTLY, AND SHALL NOT BE HELD LIABLE OR RESPONSIBLE FOR ANY ERRORS OR OMISSIONS THAT MAY OCCUR DURING CONSTRUCTION.

IN THE EVENT A GEOTECHNICAL REPORT ON THE SPECIFIC TRACT OF LAND UPON WHICH THE PROPOSED STRUCTURE IS TO BE CONSTRUCTED IS PROVIDED BY THE CLIENT TO DYNAMIC ENGINEERING, DYNAMIC ENGINEERING CONSULTANTS WILL RELY ON THE INFORMATION IN SUCH REPORT IN DESIGNING ITS PLANS AND SPECIFICATIONS FOR THE CLIENT. HOWEVER, DYNAMIC ENGINEERING CONSULTANTS DOES NOT ASSUME OR TAKE ANY RESPONSIBILITY WHATSOEVER FOR THE ACCURACY OF THE GEOTECHNICAL REPORT PROVIDED OR ANY INFORMATION CONTAINED THEREIN WHICH MAY BE RELIED UPON BY DYNAMIC ENGINEERING CONSULTANTS DESIGNING THE FOUNDATION FOR THE PROPOSED STRUCTURE.

ABBREVIATIONS

A.B.	ANCHOR BOLT
ADD.	ADDITION
A.F.F.	ABOVE FINISH FLOOR
ALT.	ALTERNATE
ANCH.	ANCHOR
ARCH.	ARCHITECT OR ARCHITECTURAL
B.F.F.	BELOW FINISH FLOOR
BLDG.	BUILDING
BLK.	BLOCK
BM.	BEAM
B.P.	BASE PLATE
BOT.	BOTTOM
BRG.	BEARING
BTWN.	BETWEEN
C.L.	CENTER LINE
CFS	COLD-FORMED STEEL
CJP	COMPLETE JOINT PENETRATION (WELD)
COL.	COLUMN
CONC.	CONCRETE
CONN.	CONNECTION
CONST.	CONSTRUCTION
CONT.	CONTINUOUS
CTR.	CENTER
DBL.	DOUBLE
DET.	DETAIL
DIA.	DIAMETER
DIM.	DIMENSION
DN.	DOWN
DWLS.	DOWELS
E.F.	EACH FACE
ELEV.	ELEVATION
EL.	ELEVATION
E.W.	EACH WAY
EXP.	EXPANSION
EXT.	EXTERIOR
F.D.	FLOOR DRAIN
FDN.	FOUNDATION
F.F.E.	FINISH FLOOR ELEVATION
FIN.	FINISH
FLG.	FLANGE
FLR.	FLOOR
FTG.	FOOTING
GALV.	GALVANIZED
G.B.	GRADE BEAM
GEN.	GENERAL
GYP.	GYPSUM
HORIZ.	HORIZONTAL
INT.	INTERIOR
JST.	JOIST
JT.	JOINT
LBS.	POUNDS
L.F.	LINEAL FEET
L.L.H.	LONG LEG HORIZONTAL
L.L.V.	LONG LEG VERTICAL
MANUF.	MANUFACTURER
MATL.	MATERIAL
MAX.	MAXIMUM
MIN.	MINIMUM
O.C.	ON CENTER
O.H.	OPPOSITE HAND
OPNG.	OPEN OR OPENING
OPP. HD.	OPPOSITE HAND
PL.	PLATE
PLY.	PLYWOOD
PROJ.	PROJECTION
REQ'D	REQUIRED
REF.	REFERENCE
REINF.	REINFORCING OR REINFORCE
SCHED.	SCHEDULE
SECT.	SECTION
S.F.	SQUARE FEET
SIM.	SIMILAR
SPEC.	SPECIFICATION
STIRR.	STIRRUPS
STL.	STEEL
THK.	THICK OR THICKNESS
TYP.	TYPICAL
U.N.O.	UNLESS NOTED OTHERWISE
VERT.	VERTICAL
WD.	WOOD
W.P.	WATERPROOF OR WORK POINT
WT.	WEIGHT
W/	WITH

PERMIT SET:	5/13/2024
ISSUED FOR	DATE

APEX SUPPLY

SULPHUR SPRINGS, TX

DYNAMIC Engineering Consultants PLLC

PROFESSIONAL ENGINEERING SERVICES

200 S. HILLCREST, SUITE C
SULPHUR SPRINGS, TX 75482

STATE OF TEXAS
JAMES W. BURNETT
93832
LICENSED
PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
DRAWN	CORY CODY	
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

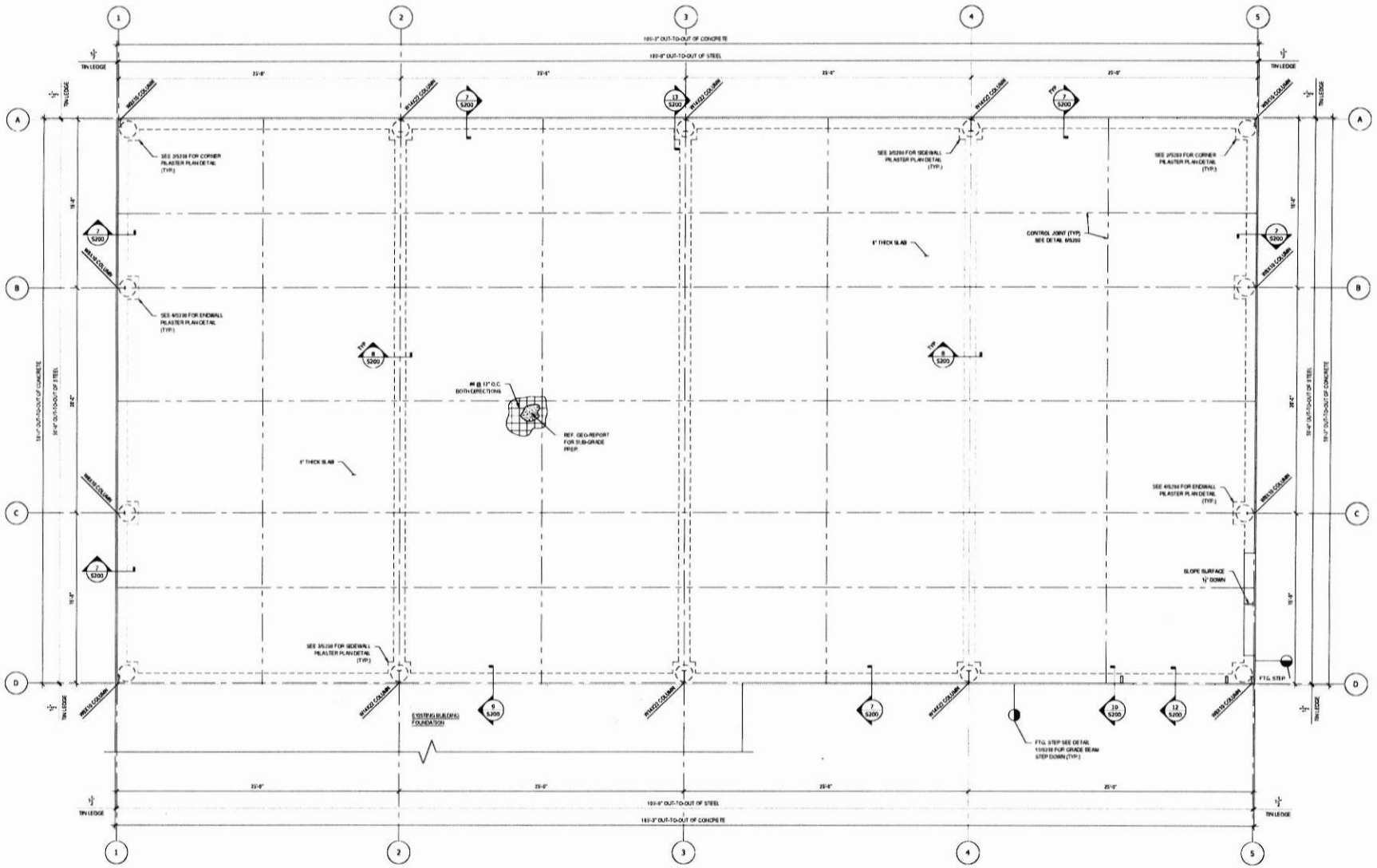
PROPRIETARY AND CONFIDENTIAL

GENERAL NOTES

PROJECT # 10240

SHEET NUMBER S100

QUALITY CONTROL:
THE FOLLOWING INSPECTIONS & FIELD TESTING ARE REQUIRED:
- PRE-POUR FOUNDATION INSPECTION
- SELECT FILL LAB TESTING FOR COMPLIANCE WITH REQUIREMENTS
- DENSITY & MOISTURE CONTENT TESTING OF SUB-GRADE AND SELECT FILL



1 FOUNDATION PLAN

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

NOTES:
1. SEE 5/S230 FOR SLAB CONSTRUCTION JOINT DETAIL AT CONTRACTOR'S OPTION.
2. SEE 4/S201 FOR TYPICAL ENDWALL COLUMN EMBED BASE PLATE DETAIL.
3. SEE 5/S201 FOR TYPICAL CORNER COLUMN EMBED BASE PLATE DETAIL.
4. SEE 6/S201 FOR TYPICAL SIDEWALL COLUMN EMBED BASE PLATE DETAIL.

LOCATE ALL EDGE FORMS, FLOATING FORMS, RECESSED AREAS, PLUMBING, AND ELECTRICAL PER THE ARCHITECTURAL DRAWINGS. DIMENSIONS PROVIDED ON THIS DRAWING FOR THESE ITEMS ARE FOR REFERENCE ONLY. IN THE EVENT OF A DISCREPANCY THE ARCHITECTURAL DRAWING SHALL GOVERN.

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

PERMIT SET:	5/13/2024
ISSUED FOR	DATE

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LICENSED PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
DRAWN	CORY CODY	
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

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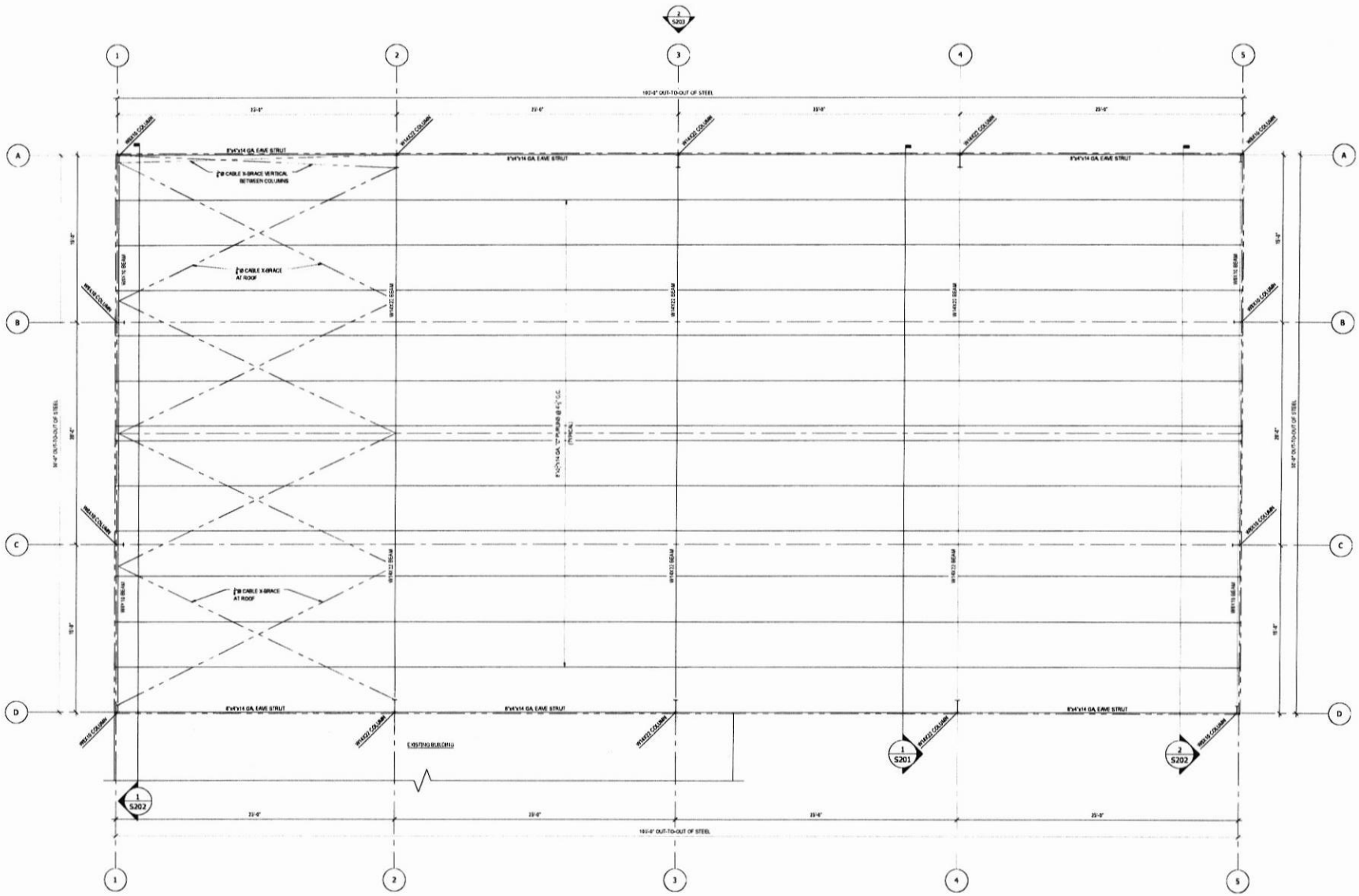
FOUNDATION PLAN

PROJECT # 10240

SHEET NUMBER S101



1 ROOF FRAMING PLAN
Scale: 1/4" = 1'-0"

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

PERMIT SET 5/13/2024
ISSUED FOR DATE

APEX SUPPLY
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200 S. HILLCREST, SUITE C
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75482

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LICENSED
PROFESSIONAL ENGINEER

ENGINEERING SEAL

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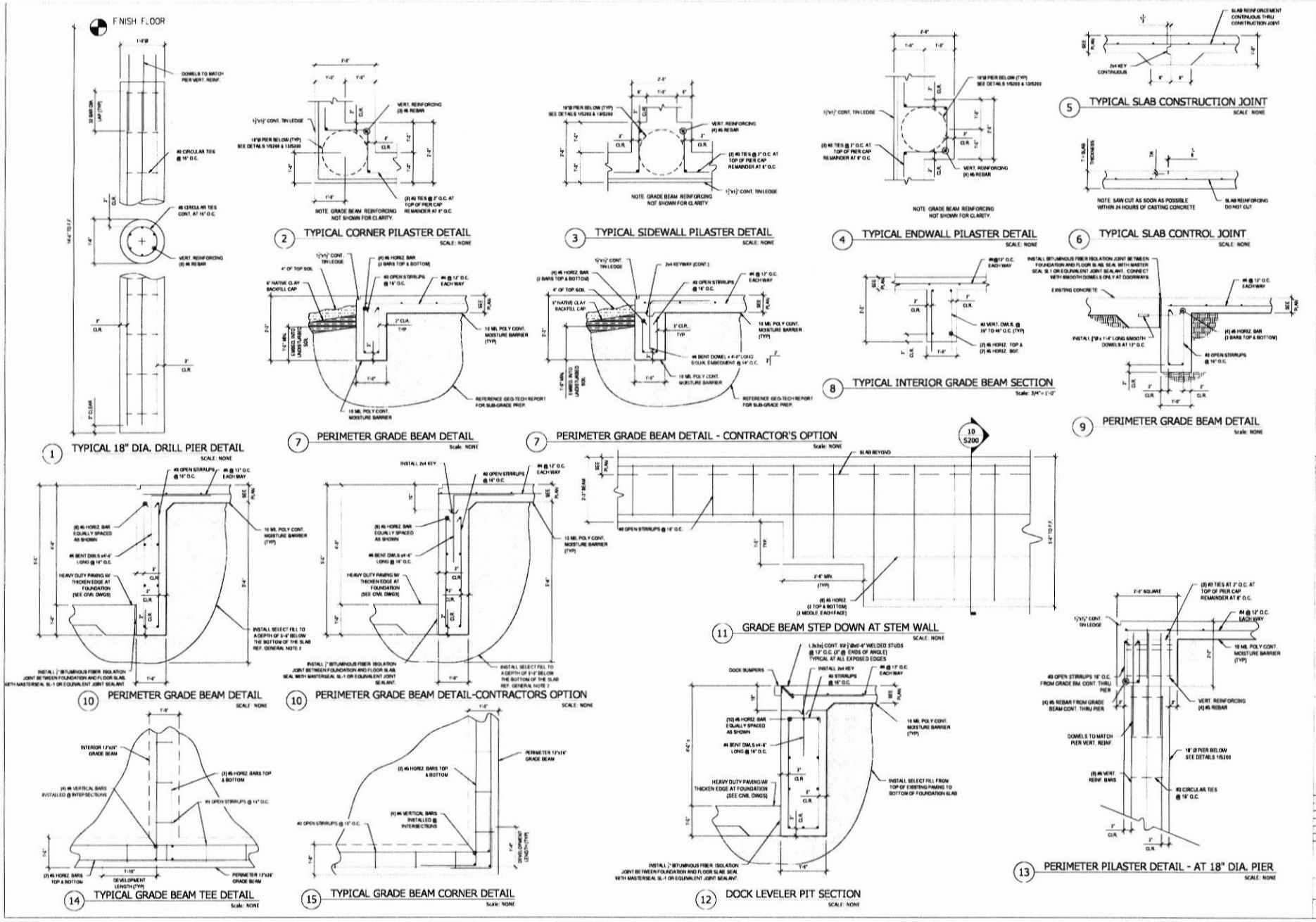
DRAWN	CORY CODY	
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

PROPRIETARY AND CONFIDENTIAL

ROOF FRAMING PLAN

PROJECT # 10246
SHEET NUMBER S102



PERMIT SET	5/30/024
ISSUED FOR	DATE

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DYNAMIC Engineering Consultants PLLC

PROFESSIONAL ENGINEERING SERVICES

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LICENSED PROFESSIONAL ENGINEER

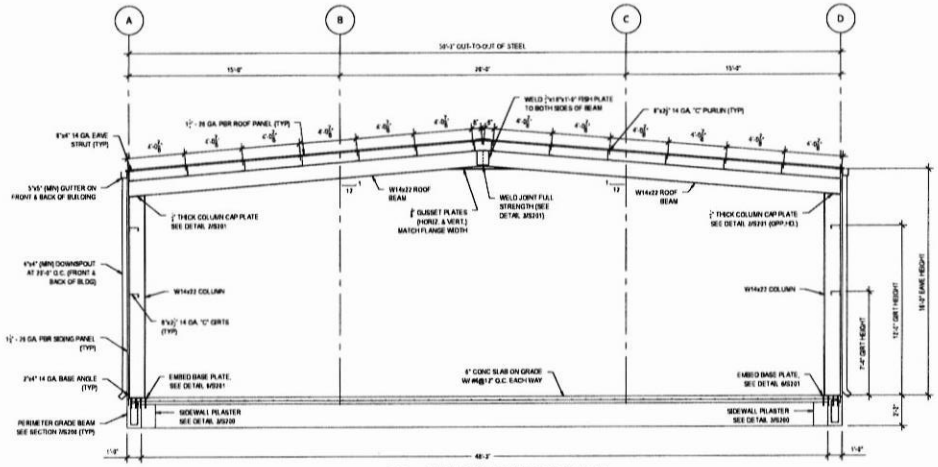
ENGINEERING SEAL

	NAME	DATE
DRAWN	CORY CODY	
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

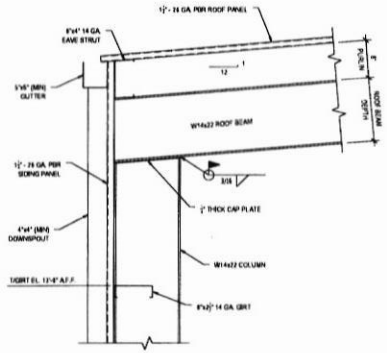
FOUNDATION SECTIONS & DETAILS

PROJECT # 10246

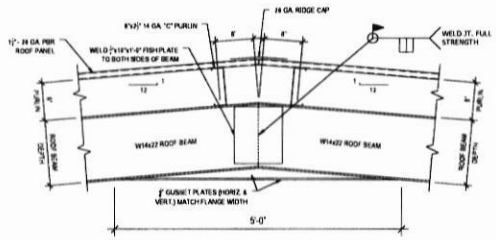
SHEET NUMBER S200



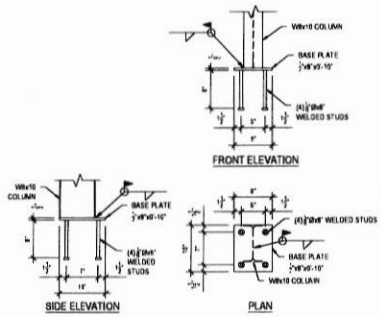
1 BUILDING FRAME SECTION
Scale: 1/4" = 1'-0"



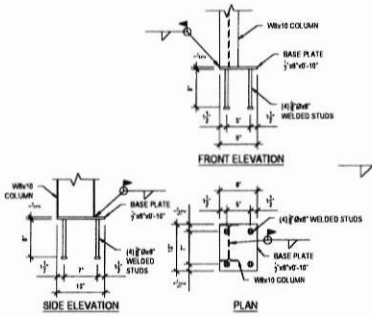
2 BUILDING FRAME CONNECTION DETAIL
Scale: 1" = 1'-0"



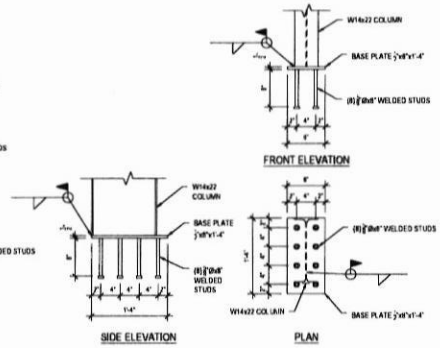
3 BUILDING FRAME CONNECTION DETAIL
Scale: 1" = 1'-0"



4 TYPICAL ENDWALL EMBED PLATE DETAIL
Scale: NONE



5 TYPICAL CORNER EMBED PLATE DETAIL
Scale: NONE



6 TYPICAL SIDEWALL EMBED PLATE DETAIL
Scale: 1" = 1'-0"

PERMIT SET:	5/13/2024
ISSUED FOR	DATE

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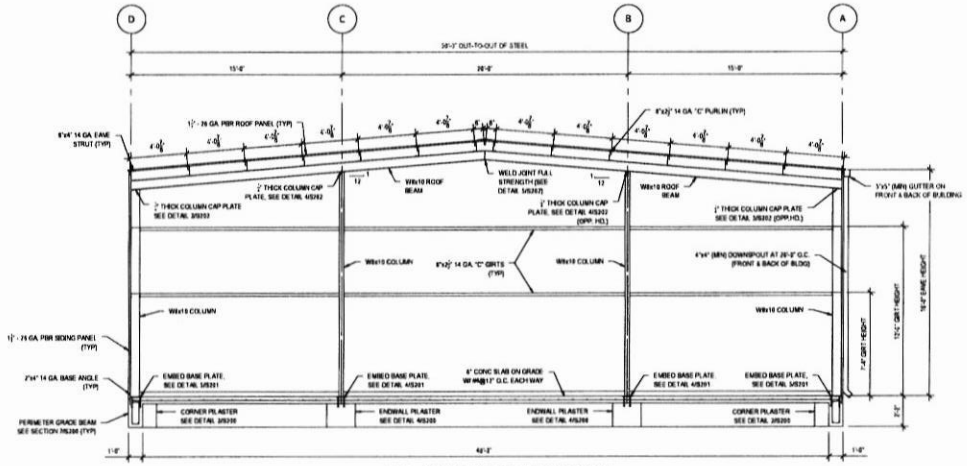
ENGINEERING SEAL

	NAME	DATE
DRAWN	CORY CODY	
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

BUILDING FRAMING SECTIONS

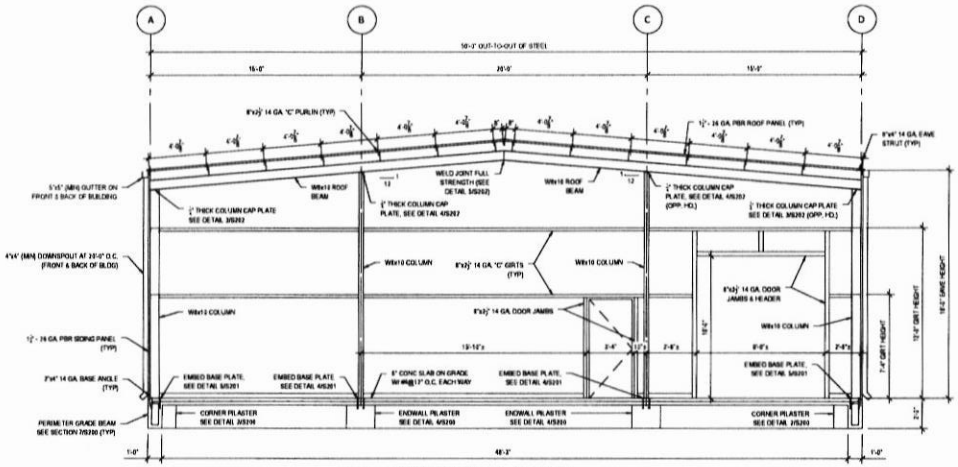
PROJECT # 10240

SHEET NUMBER S201



1 BUILDING FRAME SECTION
Scale: 1/4" = 1'-0"

NOTES
1. EXISTING BUILDING NOT SHOWN FOR CLARITY



2 BUILDING FRAME SECTION
Scale: 1/4" = 1'-0"

NOTES
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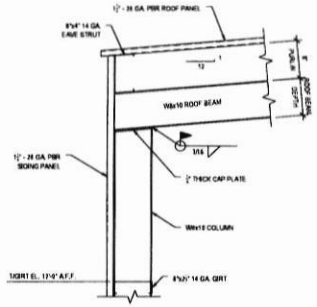
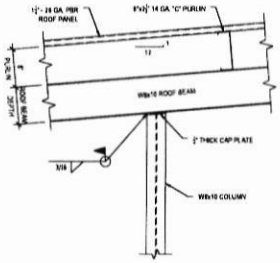
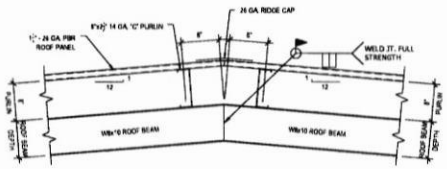


3 BUILDING FRAME CONNECTION DETAIL
Scale: 1" = 1'-0"



4 BUILDING FRAME CONNECTION DETAIL
Scale: 1" = 1'-0"



5 BUILDING FRAME CONNECTION DETAIL
Scale: 1" = 1'-0"

PERMIT SET	5/13/2024
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75482

STATE OF TEXAS
JAMES W. BURNETT
93832
LICENSED PROFESSIONAL ENGINEER
ENGINEERING SEAL

	NAME	DATE
DRAWN	CORY GODY	
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

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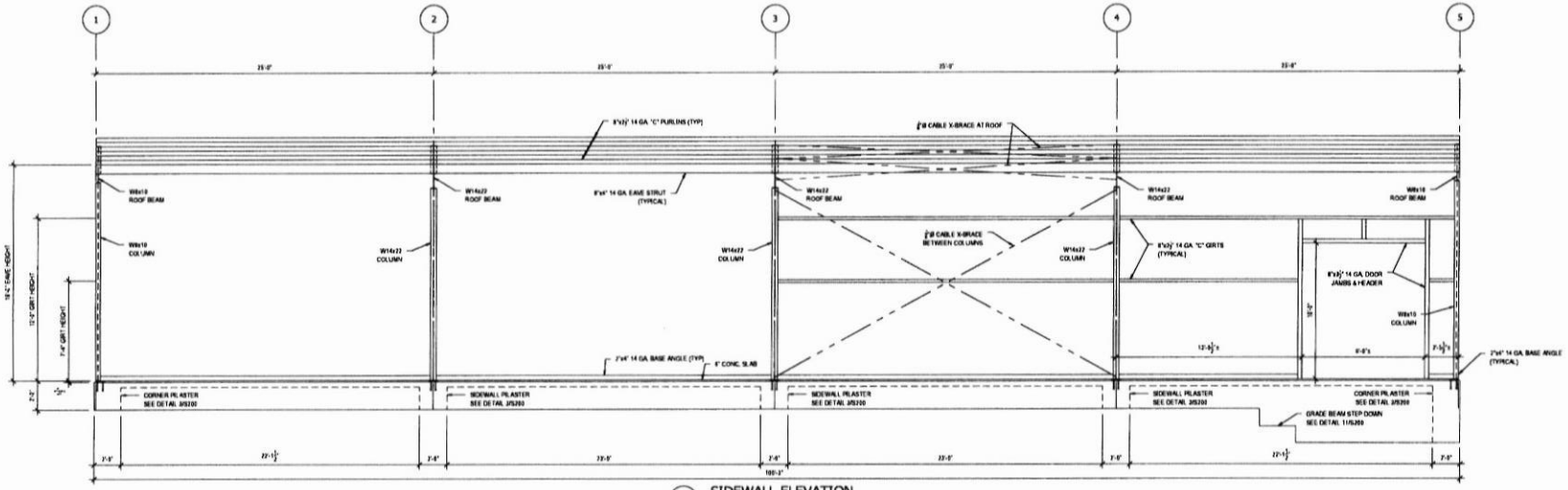
BUILDING FRAMING SECTIONS

PROJECT # 10246

SHEET NUMBER S202



1 SIDEWALL ELEVATION

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

NOTES
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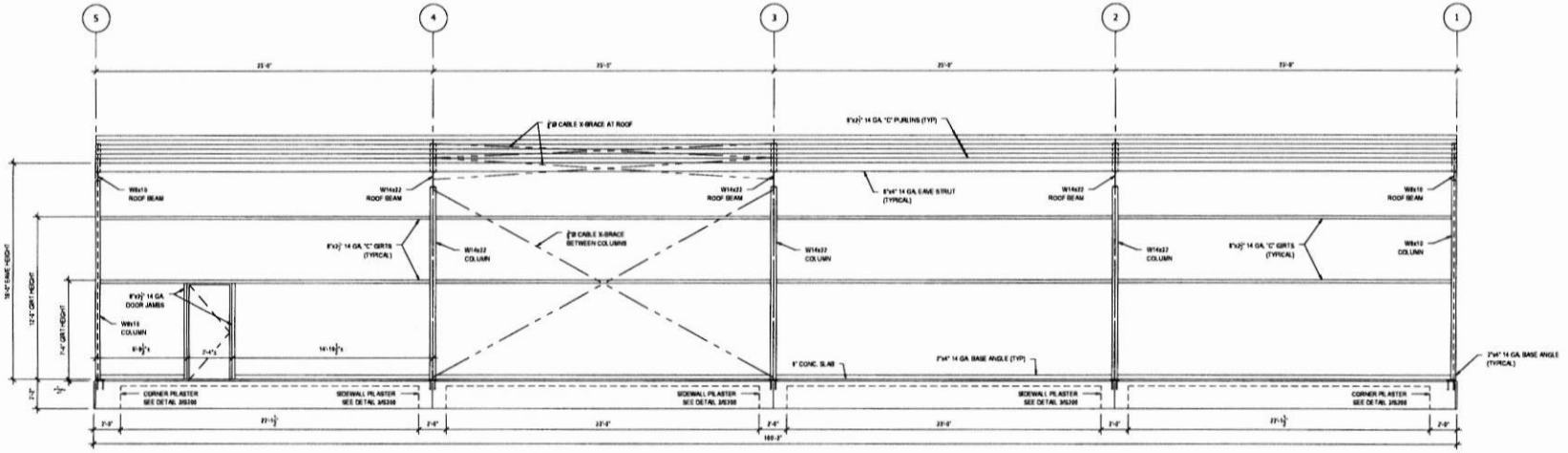
2. EXISTING BUILDING NOT SHOWN FOR CLARITY.



2 SIDEWALL ELEVATION

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

NOTES
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2. EXISTING BUILDING NOT SHOWN FOR CLARITY.

PERMIT SET	5/13/2024
ISSUED FOR	DATE

APEX SUPPLY

SULPHUR SPRINGS, TX

DYNAMIC Engineering Consultants PLLC
PROFESSIONAL ENGINEERING SERVICES
200 S. HILLCREST, SUITE C
SULPHUR SPRINGS, TX
75482

STATE OF TEXAS
JAMES W. BURNETT
93832
LICENSED PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
DRAWN	CORY CODY	
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

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BUILDING FRAMING ELEVATIONS

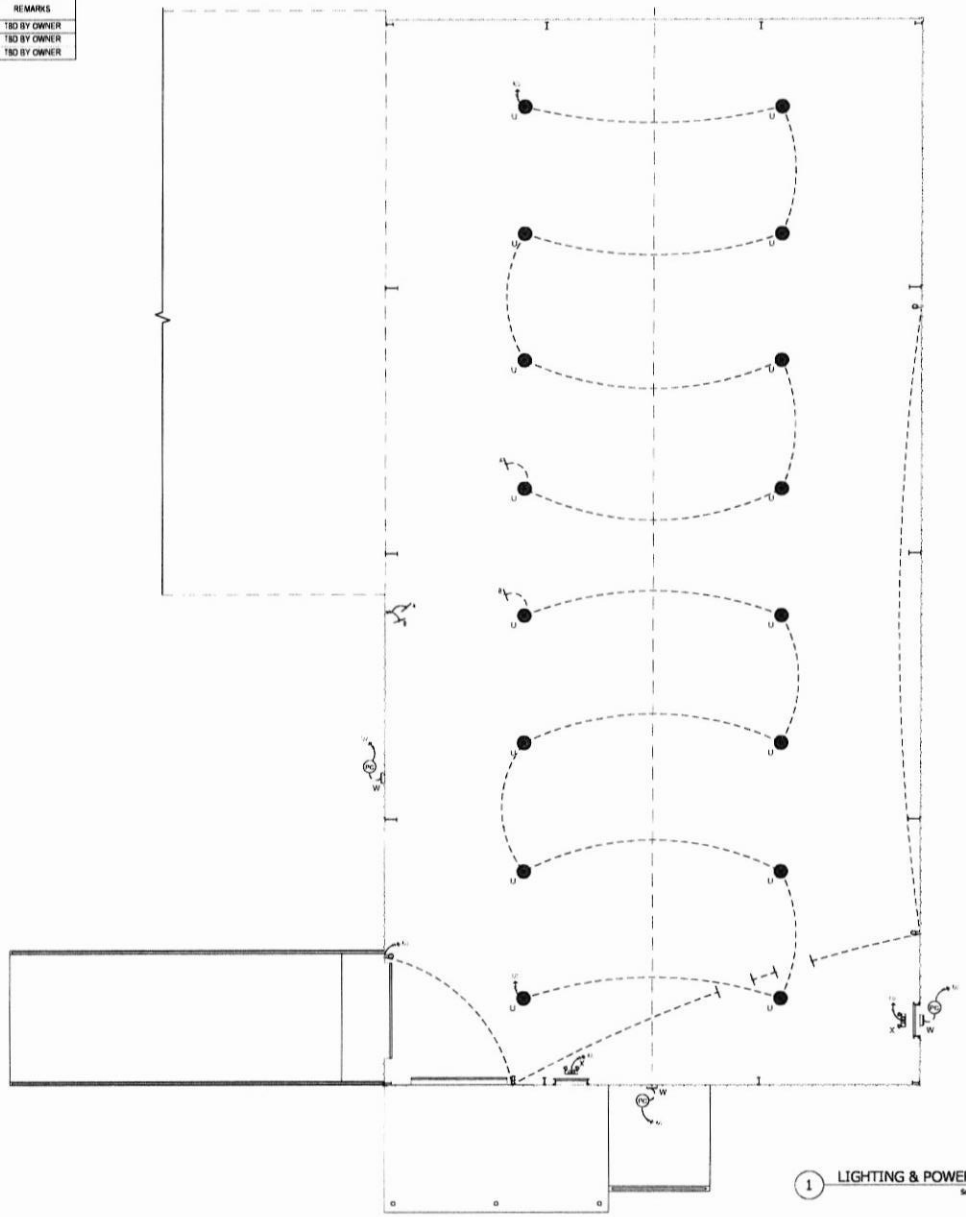
PROJECT # 10246

SHEET NUMBER S203

FIXTURE SCHEDULE					
LIGHTING SYMBOL (AS SHOWN)	TYPE MARK	COUNT	WATTS	DESCRIPTION	REMARKS
●	U	16	100	UFO HIGH BAY LIGHT	TBD BY OWNER
▭	W	3	70	LED WALL PACKS	TBD BY OWNER
▭	X	2	5	EMERGENCY EXIT W/ 90 MINUTE BACKUP BATTERY	TBD BY OWNER

GENERAL NOTE
1. ALL LIGHTING FIXTURES ARE TBD BY OWNER.
2. APPROVED RADIANT BARRIERS AT ALL ELECTRICAL EQUIPMENT PENETRATIONS OF FIRE RATED ASSEMBLIES

NOTE
ELECTRICAL PANEL LOCATED IN EXISTING APEX SUPPLY WAREHOUSE



1 LIGHTING & POWER PLAN
Scale: 3/16" = 1'-0"

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

PERMIT SET	5/13/2024
ISSUED FOR	DATE

APEX SUPPLY

SULPHUR SPRINGS, TX

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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

LIGHTING & POWER PLAN

PROJECT # 16240

SHEET NUMBER E100

Panel Schedule A

Apex Supply Add	Panel Name: A
Sulphur Springs, TX	Mount: FLUSH
	Location: APEX SUPPLY EX. BLDG

CKT	Load Description	Wire	Load (VA)	CB P	CB AMP	A	B	CB AMP	CB P	Load (VA)	Wire	Load Description	CKT
1	EXISTING											EXISTING	2
3	EXISTING											EXISTING	4
5	EXISTING											EXISTING	6
7	EXISTING											EXISTING	8
9	EXISTING											EXISTING	10
11	EXISTING											EXISTING	12
13	EXISTING											EXISTING	14
15	EXISTING											EXISTING	16
17	EXISTING											EXISTING	18
19	EXISTING					600	20	1	660	12		INTERIOR LIGHTING	20
21	INTERIOR LIGHTING	12	600	1	20	1036		20	1	226	12	EXTERIOR & EMERGENCY LIGHTING	22
23	OUTLETS	12	720	1	20		720					SPARE	24

NOTE
EXISTING SERVICE TO BUILDING IS A 200 AMP SINGLE PHASE SERVICE SUPPLIED OVERHEAD

ELECTRICAL SYMBOLS

GENERAL NOTES

SEE THE SPECIFICATIONS FOR ADDITIONAL INFORMATION.

THIS SYMBOL LEGEND IS FOR GENERAL REFERENCE USE. SPECIFIC REQUIREMENTS ON THE PLANS OR SCHEDULES TAKE PRECEDENCE.

ALL OUTLETS ARE TO BE INSTALLED FLUSH UNLESS OTHERWISE INDICATED.

MOUNTING HEIGHTS SHOWN ON THE PLANS TAKE PRECEDENCE OVER THIS LEGEND

CHECK ALL DOOR SWINGS AND CABINETRY ELEVATIONS BEFORE INSTALLING SWITCH AND OUTLET BOXES.

ABBREVIATIONS

A	AMPERES
A/F	ABOVE FINISHED FLOOR
A/G	ABOVE FINISHED GRADE
BKR	BREAKER
C	CONDUIT
EMT	ELECTRICAL METALLIC TUBING
GRC	GALVANIZED RIGID CONDUIT
GND	GROUND
GF	GROUND FAULT INTERRUPTER
IG	ISOLATED GROUND
N/C	NOT IN CONTRACT
N/S	NOT TO SCALE
PVC	POLYVINYL CHLORIDE
R	ROOF MOUNTED WEATHER-PROOF EQ
WP	WEATHERPROOF

OUTLETS — MH = 1'-6" TO CENTER

- DUPLEX RECEPTACLE — AB = AT ABOVE F.F. (A) — WP = WEATHERPROOF
- GROUND FAULT INTERRUPTER
- FOURPLEX RECEPTACLE
- SPECIAL - SEE EQUIPMENT SCHEDULE
- SPLIT WIRED RECEPTACLE (SWITCH ON ONE SIDE)
- CLOCK OUTLET RECEPTACLE
- JUNCTION BOX - CEILING
- JUNCTION BOX - WALL
- TELEPHONE - WALL
- FLOOR RECEPTACLE
- CEILING RECEPTACLE
- LAN RECEPTACLE
- DATA PORT
- SPEAKER OUTLET
- MASTER SPEAKER OUTLET AND CONTROL
- T.V. / CABLE CONNECTION
- DOOR BELL

SWITCHES — MH = 3'-10" TO CENTER

- SINGLE POLE
- TWO POLE
- THREE WAY
- FOUR WAY
- DIMMER
- FAN/LIGHT HEATER WALL SWITCH
- OCCUPATIONAL SENSOR SWITCH, WALL MOUNTED
- EXHAUST FAN
- SMOKE DETECTOR
- 220 RECEPTACLE

GENERAL SYMBOLS

- EQUIPMENT — AC-1 - DESIGNATION - SEE SCHEDULE
- FLAG NOTE
- REVISION
- 12 ROOM NUMBER
- GAS METER
- DOOR CHIME

CONDUIT

- CONCEALED IN WALLS OR CEILING — 1" = CONDUIT SIZE
- UNDER FLOOR OR UNDERGROUND
- 18-7 HOME RUN — (18-7 = PANEL & CIRCUIT NUMBERS - NUMBER OF WIRES)

ONE LINE DIAGRAM

- 2 3"PVC — FEEDER — NO. OF CONDUITS - SIZE AND MATERIAL
- 3 #4/0 THW AL — NUMBER & SIZE OF # & N INSULATION & CONDUCTOR
- 1 #4 GRD THW - CU — GROUND SIZE (IF #6 OR 8) INSULATION & CONDUCTOR
- METER
- LP-A — PANELBOARD - SEE SCHEDULE — LP-A = DESIGNATION
- CURRENT TRANSFORMER
- 60/3 — FUSED SWITCH 60 AMP 3 POLE FRAME
- 50 K.I.N.R. — 50 AMP K.I.N.R. FUSE

FIRE ALARM SYSTEM

- FA MASTER PANEL — MH = 5'-0" TO TOP
- FA ANNUNCIATOR PANEL — MH = 5'-0" TO TOP
- HORN/LIGHT COMBINATION — MH = 80" TO CENTER
- STROBE LIGHT — MH = 80" TO CENTER
- F PULL STATION — MH = 3'-10" TO CENTER
- P PHOTOELECTRIC SMOKE DETECTOR
- D THERMAL DETECTOR - 135 DEGREES
- D THERMAL DETECTOR - 200 DEGREES
- ANSU ANSU. EQUIPMENT
- FS SPRINKLER SYSTEM FLOW SWITCH
- TS SPRINKLER VALVE TAMPER SWITCH

EQUIPMENT

- MAGNETIC MOTOR STARTER — MH = 4'-8" TO TOP
- F FUSED DISCONNECT — MH = 4'-8" TO TOP
- UNFUSED DISCONNECT — MH = 4'-8" TO TOP
- MOTOR
- PANELBOARD — LP-A - DESIGNATION — 4'-0" TO TOP
- PHOTOCELL
- TIME CLOCK — MH = 4'-6" TO TOP

SERVICE ENTRANCE

- METER — MH = 5'-8" TO CENTER
- TELEPHONE TERMINAL — MH = 4'-6" TO CENTER
- PAD MOUNTED TRANSFORMER
- MDC MAIN DISTRIBUTION CENTER

FIXTURE SCHEDULE

LIGHTING SYMBOL (AS TO SCALE)	TYPE MARK	COUNT	WATTS	DESCRIPTION	REMARKS
●	U	16	100	UFO HIGH BAY LIGHT	TBD BY OWNER
▭	W	3	70	LED WALL PACKS	TBD BY OWNER
	X	2	5	EMERGENCY EXIT W/ 90 MINUTE BACKUP BATTERY	TBD BY OWNER

WIRE SIZING SCHEDULE

CIRCUIT BREAKER	COPPER WIRE SIZE (INCLUDES NEUTRAL)
10 AMP	3#14, #8GR., 1"C.
20 AMP	3#12, #8GR., 1"C.
25 AMP	3#10, #8GR., 1"C.
30 AMP	3#10, #8GR., 1"C.
35 AMP	3#8, #8GR., 1"C.
40 AMP	3#8, #8GR., 1"C.
45 AMP	3#8, #8GR., 1"C.
50 AMP	3#8, #8GR., 1"C.
55 AMP	3#6, #8GR., 1"C.
60 AMP	3#6, #8GR., 1"C.
65 AMP	3#4, #8GR., 1"C.
70 AMP	3#4, #8GR., 1"C.
80 AMP	3#3, #8GR., 1"C.
90 AMP	3#2, #8GR., 1"C.
100 AMP	3#2, #8GR., 1"C.
125 AMP	3#1/0, #6GR., 1"C.
150 AMP	3#1/0, #6GR., 1½"C.
200 AMP	3#3/0, #6GR., 1½"C.
225 AMP	3#4/0, #6GR., 1½"C.
250 AMP	3#250KCM, #4GR., 2"C.
310 AMP	3#350KCM, #4GR., 2"C.
350 AMP	3#400KCM, #2GR., 3"C.
400 AMP	3#500KCM, #2GR., 3"C.

ELECTRICAL NOTES

1. FURNISH ALL LABOR, MATERIALS, TOOLS, ETC. TO PROVIDE A COMPLETE AND OPERABLE ELECTRICAL INSTALLATION AS SHOWN ON THE PLANS.
2. CONTRACTOR SHALL VISIT THE SITE TO SATISFY HIMSELF AS TO THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF FULL PERFORMANCE OF THE INTENT OF THE CONTRACT DOCUMENTS.
3. ALL NECESSARY ELECTRICAL PERMITS SHALL BE OBTAINED AND PAID FOR BY THE ELECTRICAL CONTRACTOR.
4. ALL ELECTRICAL WORK SHALL BE INSPECTED AND APPROVED BY THE STATE BUILDING INSPECTOR, OR THE LOCAL INSPECTION AGENCY HAVING JURISDICTION.
5. ALL ELECTRICAL WORK SHALL CONFORM TO THE CURRENT NATIONAL ELECTRICAL CODE AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
6. THIS CONTRACTOR SHALL FURNISH AND INSTALL TEMPORARY ELECTRICAL SERVICE FOR CONSTRUCTION TRADES, POWER TOOLS, TEMPORARY LIGHTING, ETC. AS REQUIRED AND IN ACCORDANCE WITH ALL CODES AND STANDARDS.
7. THIS CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES INVOLVED ON THIS PROJECT. COORDINATE HIS WORK WITH THEIRS, AND VERIFY DIVISION OF RESPONSIBILITIES BEFORE PROCEEDING. ALL UTILITY COMPANY TAP/RECHARGES SHALL BE PAID FOR BY THIS CONTRACTOR AND INCLUDED IN HIS BID.
8. CONTRACTOR SHALL GUARANTEE HIS WORKMANSHIP AND MATERIAL FOR A PERIOD OF 1 YEAR FROM THE DATE OF FINAL ACCEPTANCE.
9. ALL MATERIALS FURNISHED AND/OR INSTALLED UNDER HIS CONTRACT SHALL BE NEW UNLESS SPECIFICALLY NOTED OTHERWISE, AND SHALL BEAR THE LABEL OF THE UNDERWRITERS LABORATORIES.
10. THIS CONTRACTOR SHALL REMOVE DEBRIS CREATED BY HIS PORTION OF THE CONTRACT AND SHALL CLEAN ALL FIXTURES, PANELS, EQUIPMENT, ETC. AT THE COMPLETION OF THE PROJECT.
11. CONDUCTORS SHALL BE COPPER WITH 600V THWN/THHN INSULATION, NO. 12 AWG. MINIMUM.
12. COORDINATE ALL ELECTRICAL WORK WITH THE GENERAL, MECHANICAL AND PLUMBING CONTRACTORS.
13. ELECTRICAL CONTRACTOR SHALL VERIFY AMP BREAKER AND WIRE SIZE TO BE USED WITH HVAC CONTRACTOR FOR HVAC EQUIPMENT.
14. ELECTRICAL CONTRACTOR TO COORDINATE EXACT REQUIREMENTS FOR SIGNAGE AND PARKING LOT WITH CIVIL AND ONSITE GENERAL CONTRACTOR.
15. ALL FIXTURES ARE TO BE FURNISHED & INSTALLED BY ELECTRIC CONTRACTOR

ENERGY NOTES

1. ALL PLUMBING FIXTURES ARE TO BE LOW FLOW ENERGY SAVING LOW WATER USAGE PRODUCTS.
2. INSULATION PROVISIONS
   - 2.1. CEILING R-30
   - 2.2. WALLS R-19
   - 2.3. FLOORS R-13
   - 2.4. EXTERIOR DOORS R-5
   - 2.5. WINDOWS ..... THERMOPANE WITH THERMAL BREAK
3. SILICON CAULKING SEALANT AND WEATHERSTRIPPING TO BE USED AT ALL OPENINGS

APEX SUPPLY

SULPHUR SPRINGS, TX

PERMIT SET	5/13/2024
ISSUED FOR	DATE

DYNAMIC Engineering Consultants PLLC
PROFESSIONAL ENGINEERING SERVICES
208 S. HILLCREST, SUITE C
SULPHUR SPRINGS, TX 75487

STATE OF TEXAS — JAMES W. BURNETT — 93832 — LICENSED PROFESSIONAL ENGINEER

ENGINEERING SEAL

	NAME	DATE
DRAWN		
CHECKED		
ENG APPR.	JW BURNETT	
Q.A.		

PROPRIETARY INFORMATION

ELECTRICAL DETAILS

PROJECT # 10240

SHEET NUMBER E200