

LOCATION MAP

RDF Trucking

Proposed Addition

7425 Industrial Parkway

Lorain, Ohio 44053

CIVIL ENGINEER
ADAPTIVE ENGINEERING GROUP, LLC
MATTHEW HASEL
5065 OBERLION AVENUE
LORAIN, OHIO 44053
1-440-444-1022

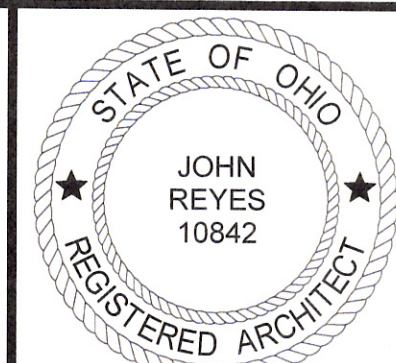
SPRINKLER ENGINEER
GLEN BUELOW
GLEN BUELOW
P.O. BOX 4455
AKRON, OHIO 44321
1-216-469-7390

MECHANICAL ENGINEER
ELEMENTAL ENGINEERING, LLC
STEVE GALA
4648 EAST MAPLE AVENUE
GENEVA, OHIO 44041
1-440-466-0087

ELECTRICAL ENGINEER
CHARLES A. LEWIS & ASSOCIATES, INC
WALTER MOORE
13700 STATE ROAD #11
NORTH ROYALTON, OHIO 44133
1-440-582-8200

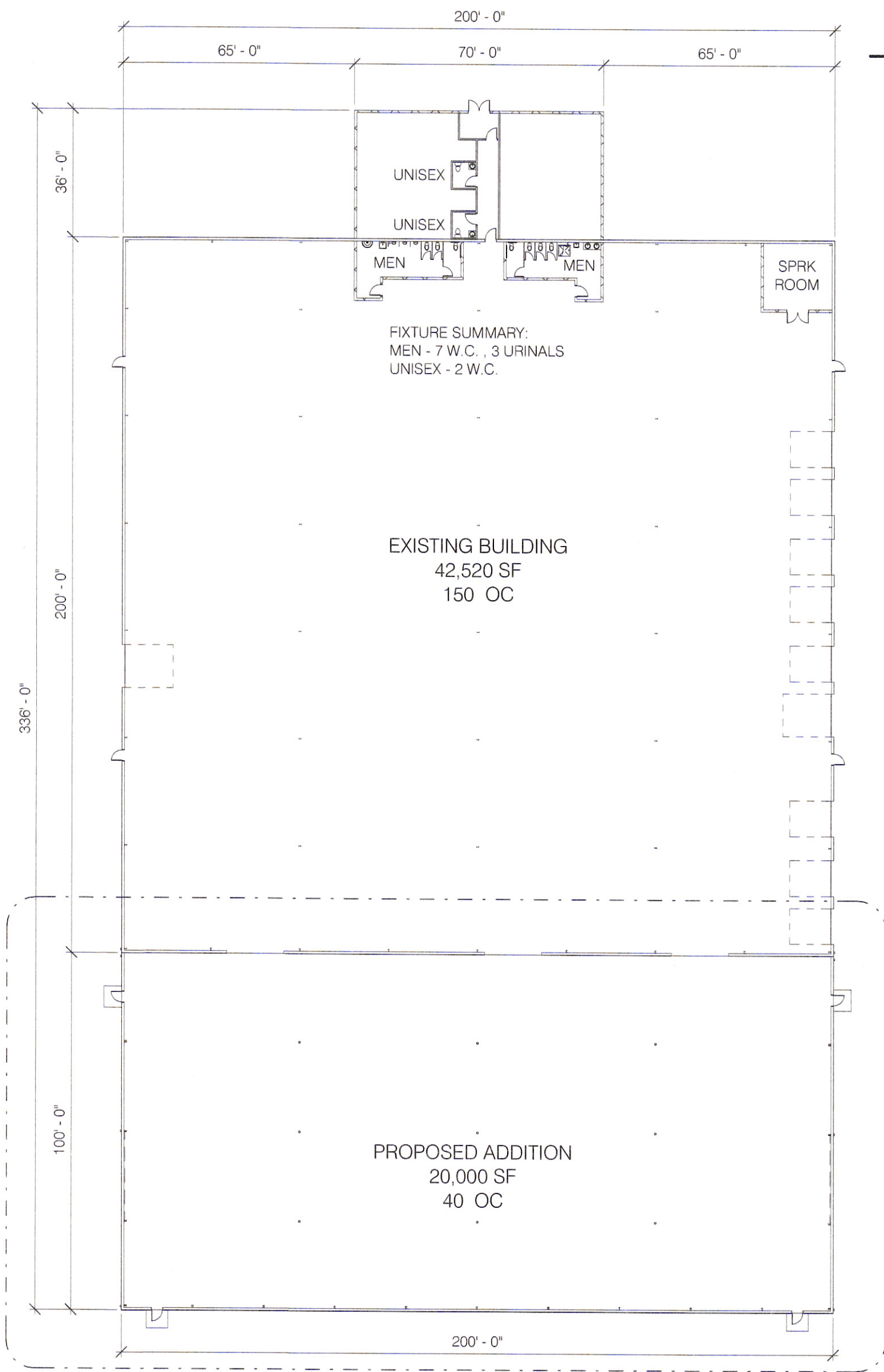
BUILDING DEPT
LORAIN BUILDING DEPT
RICHARD KLINER
200 WEST ERIE AVENUE
LORAIN, OHIO 44052
1-440-204-2045

ARCHITECT
STAR ARCHITECTURAL GROUP
JOHN REYES, R.A.
46405 TELEGRAPH ROAD
AMHERST, OHIO 44001
1-800-223-7318



John Reyes, #9410842
Expiration Date: 12/31/2022

No.	Revision Description	Date



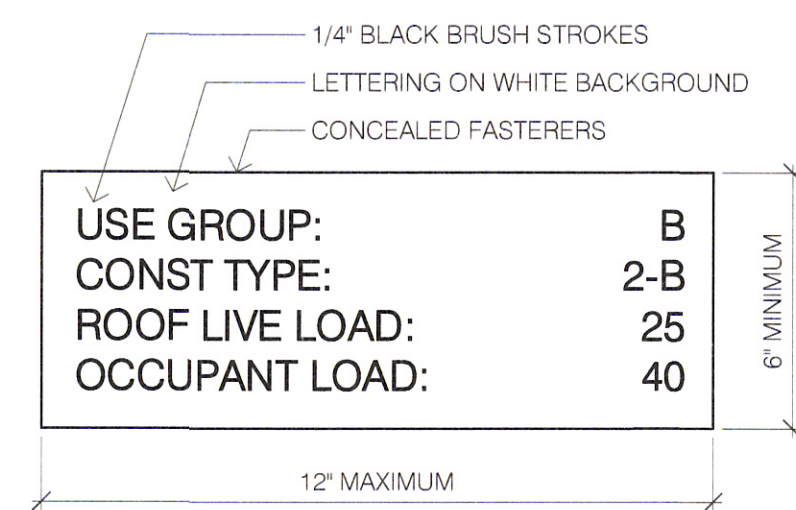
SCOPE OF WORK:

THE UNDERTAKING IS A 20,000 SF, FULLY SUSPRESSED, BUILDING ADDITION.

OBC 2017 CODE DATA:

CITY: LORAIN
ZONING: INDUSTRIAL
AREA: 20,000 SF
USE GROUP: S-1
CONSTRUCTION TYPE: 2-B
OCCUPANT LOAD: 40

OBC POSTED SIGN:



DESIGN LOADS:

FIRST FLOOR LIVE LOAD (SECTION 1603.1.1)
(TABLE 1607.1) = 250 P.S.F.
SECOND FLOOR LIVE LOAD (SECTION 1603.1.1)
(TABLE 1607.1) = 80 P.S.F.
ROOF LIVE LOAD (SECTION 1603.1.2)
(SECTION 1607.1.1) = 25 P.S.F.
STAIR LIVE LOAD (TABLE 1607.1.1) = 100 P.S.F.
ROOF SNOW LOAD (SECTION 1603.1.3)
GROUND SNOW LOAD (FIGURE 1608.2) (Pg) = 20 P.S.F.
FLAT-ROOF SNOW LOAD (Eq 7-1 ASCE 7-05)
P_f = (.7 C_e I_s C_t P_g) = 14 P.S.F.
SNOW EXPOSURE FACTOR (ASCE 7-05 TABLE 7-2)
C_e = 1.0
SNOW LOAD IMPORTANCE FACTOR
I_s = 1.0
THERMAL FACTOR (ASCE 7-05 TABLE 7-3)
C_t = 1.0
WIND LOAD (SECTION 1603.1.4)
BASIC WIND SPEED (FIGURE 1609) = 115 M.P.H.
IMPORTANCE FACTOR (I_w) = 1.0
EXPOSURE CATEGORY (SECTION 1609.4.3) EXPOSURE C

EARTHQUAKE DESIGN DATA (SECTION 1603.1.5)
SEISMIC IMPORTANCE FACTOR (ASCE 7-05 TABLE 11.5.1)
I_e = 1.0
OCCUPANCY CATEGORY (OBC TABLE 1604.5) = 2
MAPPED SPECTRAL RESPONSE ACCELERATIONS
S_s = 0.159
S₁ = 0.050
SITE CLASS (TABLE 1613.5.2) = D (ASSUMED)
SPECTRAL RESPONSE COEFFICIENTS
S_{ds} = (2/3 S_{ms}) = 0.127 (S_{ms} = F_a x S_s)
S_{d1} = (2/3 S_{m1}) = 0.057 (S_{m1} = F_v x S₁)
SEISMIC DESIGN CATEGORY (SECTION 1613.5.6) = A
BASIC SEISMIC-FORCE-RESISTING SYSTEM (ASCE 7-05 TABLE 12.2-1) = ORDINARY REINFORCED MASONRY
SHEAR WALLS
RESPONSE MODIFICATION FACTOR R = 2
SEISMIC RESPONSE COEFFICIENTS C_s = S_{ds}/(R I_e) = 0.064
DESIGN BASE SHEAR V = C_s W = 0.064 W
ANALYSIS PROCEDURE = EQUIVALENT LATERAL FORCE
SOIL BEARING (SECTION 1603.1.6) 2,000 P.S.F. PRESUMPTIVE
FLOOD DESIGN (SECTION 1603.1.7) N/A
SPECIAL LOADS (SECTION 1603.1.8) N/A
SEISMIC INSPECTIONS (SECTION 1603.1.9) N/A

STRUCTURAL NOTES:

DESIGN STRESSES:

ASSUMED SOIL PRESSURE (TABLE 1806.2) 2,000 P.S.F.
REINFORCED STEEL (A615 GRD. 60) 60 K.S.I.
STRUCTURAL STEEL (A992) 50 K.S.I.
STRUCTURAL TUBE STEEL (A500) GRADE B 46 K.S.I.

CONCRETE CONSTRUCTION:

SLAB ON GRADE, 6x6 10/10 WELDED WIRE MESH
REINFORCING. PROVIDE 6 MIL VAPOR BARRIER WITH JOINTS
LAPPED 6" MIN SHALL BE PLACED UNDER SLABS. ALL
CONCRETE CONSTRUCTION IN ACCORDANCE WITH THE
LATEST ACI DETAIL CODE AND DETAIL MANUAL. PROVIDE 3"
MIN. REINFORCEMENT COVERAGE INCLUDING HARRIN TIES
AS PER 1907.7 O.B.C. ALL FOOTING CONCRETE SHALL BE A
MINIMUM OF 3000 P.S.I. ALL SLAB CONCRETE SHALL BE A
MINIMUM OF 3500 P.S.I. ALL PIER CONCRETE SHALL BE A
MINIMUM OF 4000 P.S.I.

STEEL CONSTRUCTION:

ALL STEEL CONSTRUCTION SHALL CONFORM TO THE LATEST
A.I.S.C. SPECS. AND CODE OF STANDARD PRACTICE. ALL SHOP
AND FIELD WELDING SHALL BE PERFORMED BY SKILLED,
RECENTLY CERTIFIED WELDERS. ALL REINFORCING STEEL
SHALL BE A615 BILLET STEEL DEFORMED BARS GRADE 60. STEEL
JOIST FABRICATION & ERECTION SHALL BE IN COORDANCE TO
S.J.I. SPECS.

TEMPORARY BRACING:

TEMPORARY CONSTRUCTION SUPPORTS SHALL BE DETERMINED
AND PROVIDED BY THE ERECTOR WHEREVER NECESSARY TO
ACCOMMODATE ALL CONSTRUCTION LOADS ON THE
STRUCTURE, INCLUDING EQUIPMENT AND OPERATING OF THE
SAME. SUCH SUPPORTS SHALL BE LEFT IN PLACE AS LONG AS
MAY BE REQUIRED BY SAFETY.

STEEL LINTEL SCHEDULE:

THE FABRICATOR SHALL SUPPLY LOOSE LINTEL ANGLES OVER ALL MASONRY
OPENINGS AND RECESSES UNLESS OTHERWISE SPECIFIED. REFER TO
ARCHITECTURAL AND HVAC DRAWINGS FOR LOCATION, NUMBER AND SIZES OF
OPENINGS. LINTELS NOT SCHEDULED ON DRAWING SHALL CONSIST OF A SINGLE
ANGLE WITH A 3 1/2" LEG. HORIZONTAL FOR EACH 4" OF WALL THICKNESS, ANGLES
SHALL BE AS FOLLOWS:

MASONRY OPENINGS	ANGLES SIZE	BEARING EACH END
4'-0" OR LESS	3-1/2" x 3-1/2" x 5/16"	6"
4'-1" TO 6'-0"	4" x 3-1/2" x 5/16"	6"
6'-1" TO 7'-0"	5" x 3-1/2" x 3/8"	8"
7'-1" TO 8'-0"	6" x 3-1/2" x 5/16"	8"

ALL LINTELS EXPOSED TO THE EXTERIOR SHALL
BE GALVANIZED

ALL LINTELS SHALL HAVE A BEARING AT EACH END OF ONE
INCH PER FOOT OR OPENING WITH A MINIMUM OF 6"

ALL ANGLE LINTELS SHALL HAVE 8" OF SOLID MASONRY
BELOW BEARING END (UNO).

ALL BEAM LINTELS SHALL HAVE 16" OF SOLID MASONRY
BELOW BEARING END (UNO).

BOTTOM PLATES ON BEAMS SHALL BE 1" LESS IN WIDTH THAN
THE WALL THICKNESS, AND EXTEND FOR THE FULL LENGTH
OF BEAM INCLUDING THE BEARING ENDS (UNO). THE
BOTTOM PLATE SHALL BE WELDED TO BEAM WITH A 1/4"
FILLET WELD 3" LONG ON BOTH SIDES AT 9" O.C. STAGGER
PLACEMENT OF WELDS FROM SIDE TO SIDE.

ANCHOR BOLTS:

1/2" DIA x 14" ANCHOR ROD AT 4'-0" O.C., 1'-0" FROM CORNERS
AND EACH SIDE OF DOOR OPENINGS U.N.O. IN THICKENED
SLABS 1/2" DIA X 10" ANCHOR ROD DRILLED AND EPOXY IN
PLACE AT 4'-0" O.C., 1'-0" FROM CORNERS AND EACH SIDE OF
DOOR OPENINGS U.N.O.

GENERAL NOTES:

1) ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH ALL
APPLICABLE LOCAL, STATE, FIRE AND HEALTH CODES AND ORDINANCES. EACH
TRADE'S CONTRACTOR SHALL BE RESPONSIBLE FOR CODE COMPLIANCE AND
SHALL OBTAIN THE APPROPRIATE AND REQUIRED PERMITS. IF CONFLICTS EXIST
BETWEEN THESE DOCUMENTS AND ANY ORDINANCE, IMMEDIATELY CONTACT
THE OWNERS REPRESENTATIVE.

2) ALL WORK SHALL BE COMPLETED IN STRICT ACCORDANCE WITH
MANUFACTURER'S RECOMMENDATIONS AS WELL AS MEET THE HIGHEST
STANDARDS OF THE INDUSTRY. ALL MATERIALS SHALL BE E.W. UNLESS NOTED
OTHERWISE, AND OF THE HIGHEST QUALITY. ALL WORK SHALL BE PERFORMED
BY SKILLED CRAFTSMEN WITH A MINIMUM 5 YEARS EXPERIENCE.

3) ALL BUILDING POLICIES, REGULATIONS, AND STANDARDS SHALL BE STRICTLY
ENFORCED. BUILDING ACCESS AND MATERIAL HANDLING SHALL BE
COORDINATED WITH THE OWNER.

4) CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL CONSTRUCTION DEBRIS
AT THE END OF EACH WORK DAY AND IN ACCORDANCE WITH ALL APPLICABLE
CODES, ORDINANCES, AND LAWS AS WELL AS THE BUILDING'S POLICIES,
REGULATIONS AND STANDARDS.

5) CONTRACTOR SHALL PATCH ALL EXISTING CONSTRUCTION TO MATCH
EXISTING CONSTRUCTION WITHOUT VARIATION.

6) DIMENSIONING OF DOCUMENTS:
INTERIOR STUD PARTITIONS - TAKEN FROM FACE OF STUD (METAL OR WOOD)
OR FROM FACE OF EXISTING FINISH. MASONRY PARTITIONS - TAKEN FROM FACE
OF MASONRY TO FACE OF MASONRY.

7) ALL DIMENSIONS AND CONDITIONS SHALL BE VERIFIED IN THE
FIELD PRIOR TO COMMENCING CONSTRUCTION.

8) CONTRACTOR TO PROVIDE WALL/FLOOR/CEILING SURFACES IN
ACCORDANCE WITH CODE AND/OR READY TO RECEIVE SPECIFIED
FINISH ON ALL SURFACES, BOTH NEW AND EXISTING.

9) ARCHITECT TO REVIEW ALL CONSTRUCTION LAYOUT WITH
GENERAL CONTRACTOR PRIOR TO CONSTRUCTION WHEN
DIMENSIONAL DISCREPANCIES EXIST.

10) ALL FINISH HEIGHTS INDICATED ARE REFERENCED FROM
STRUCTURAL FLOOR SLABS.

11) ALL PRE FINISHED AND FIELD FINISH COLORS WILL BE
SELECTED BY ARCHITECT FROM MANUFACTURER'S STANDARD
COLORS UNLESS OTHERWISE INDICATED IN THE SPECIFICATIONS /
DOCUMENTS.

12) CONTRACTORS SHALL PROVIDE ADEQUATE BLOCKING AND
SUPPORT AS REQUIRED TO SECURELY MOUNT ALL RECESSED AND
SURFACE MOUNTED ACCESSORIES.

13) CONTRACTOR SHALL MAINTAIN ALL TRAFFIC LANES, PARKING,
AND CORRIDOR ACCESS DURING CONSTRUCTION.

14) IF CONDITIONS ARISE IN THE FIELD THAT DIFFER FROM THE
DOCUMENTS, CONTRACTORS SHALL CONTACT THE ARCHITECT
IMMEDIATELY BEFORE PROCEEDING.

15) ALL CONTRACTORS SUBMITTING PROPOSALS FOR THIS WORK SHALL FIRST
EXAMINE THE SITE AND CONDITIONS THEREON. ALL PROPOSALS SHALL TAKE
INTO CONSIDERATION ALL SUCH CONDITIONS AS MAY AFFECT THE WORK UNDER
THIS CONTRACT. NO ALLOWANCE WHAT SO EVER WILL BE MADE TO THE
CONTRACTORS FAILURE TO AVAIL HIMSELF OF PERTINENT INFORMATION, OR
SUCH FAILURE IN ANY WAY RELIEVE THE CONTRACTOR FROM FURNISHING
MATERIALS OR PERFORMING WORK REQUIRED TO COMPLY WITH THE INTENT OF
THE DOCUMENTS.

16) CONTRACTOR SHALL NOT BE AWARDED EXTRA PAYMENT FOR CONDITIONS
WHICH CAN BE DETERMINED BY EXAMINING THE SITE AND GENERAL
CONDITIONS.

17) CONTRACTORS ARE CAUTIONED TO BE EXTREMELY CAREFUL WHEN
INSTALLING AND HANDLING MATERIALS DURING NORMAL WORKING HOURS TO
PREVENT TRANSMISSION OF NOISE, VIBRATIONS, DIRT, AND DUST TO OCCUPIED
AREAS.

18) ALL MEASUREMENTS GIVEN ON THE DOCUMENTS SHALL BE VERIFIED AT THE
SITE BEFORE ANY WORK IS EXECUTED BY THE CONTRACTOR. ALL WORK IN
CONNECTION WITH SITE SHALL BE EXECUTED AS INDICATED. IN CASE OF ANY
MARKED DISCREPANCY BETWEEN THE DOCUMENTS AND THE ACTUAL
CONDITIONS, REPORT THE SAME TO THE ARCHITECT FOR CORRECTION. WHEN
ANY PART OF THE WORK CONNECTS WITH OTHER WORK WHICH IS IN PLACE,
MEASURE SUCH WORK AND MAKE NEW WORK CONFORM TO IT UNLESS
OTHERWISE SHOWN ON THE DOCUMENTS OR DIRECTED BY THE ARCHITECT.

19) PROTECTIVE MEASURES SHALL BE INCORPORATED TO ALLOW FOR NORMAL
DAILY OPERATIONS.

20) UNDER NO CIRCUMSTANCES SHALL TEMPORARY PROTECTIVE MEASURES
INTERFERE WITH NORMAL DAILY OPERATIONS.

21) IT IS IMPERATIVE THAT THE OWNERS PREMISES AND EQUIPMENT AS WELL AS
THOSE OF ADJACENT OPERATIONS BE FULLY PROTECTED FROM DUST AND WEATHER
AT ALL TIMES. INCLUDING NIGHTS AND WEEKENDS. DURING CONSTRUCTION
OPERATIONS, THE SEQUENCE OF OPERATIONS AND THE PROTECTION PROVIDED
SHALL BE SUCH THAT THE OWNERS PREMISES AND EQUIPMENT WILL REMAIN
PROTECTED AGAINST ALL CONTINGENCIES. WEATHER NATURAL OR MAN-MADE.

22) PROTECTIVE MEASURES SHALL BE SUBSTANTIAL AND POSITIVE AND SUBJECT TO
NO ELEMENT OF RISK. THEY SHALL INCLUDE BUT NOT LIMITED TO THE PROTECTIVE
DETAILS SHOWN ON THE DOCUMENTS. ALL PROTECTIVE MEASURES SHALL BE
APPROVED BY THE ARCHITECT BEFORE THEY ARE INCORPORATED INTO THE
WORK. ALL TEMPORARY PLYWOOD WALLS SHALL BE PAINTED BOTH SIDES WITH FIRE
PROTECTIVE PAINT. ALL POLYETHYLENE SHEETS SHALL BE OF THE SELF-
EXTINGUISHING TYPE AND SHALL BE SO IDENTIFIED.

23) CONTRACTOR SHALL PRESENT TO THE ARCHITECT FOR APPROVAL A
CONSTRUCTION PHASING PLAN. THIS PLAN SHALL INCLUDE BUT NOT BE LIMITED TO
EFFECTED AREAS, TIME SCHEDULE, SECURITY MEASURES, AND EMPLOYEE ACCESS.
IT IS THE INTENTION OF THE OWNER TO CONDUCT NORMAL WORKING OPERATIONS
DURING THE CONSTRUCTION.

24) CONTRACTORS SUPERINTENDENT SHALL PERSONALLY INSPECT ALL PROTECTIVE
MEASURES AFTER EACH WORKING DAY TO INSURE THAT ALL OPENINGS ARE CLOSED
AND SEALED TO AFFORD DUST, WATER, AND WEATHER PROTECTION. ALL
OPERATIONS WHICH MAY CAUSE DUST IN THE PRESENT BUILDING MUST BE ISOLATED.

25) IT IS RECOGNIZED THAT THE CONTRACT DOCUMENTS ARE OF A "SCOPE"
NATURE. ANY ITEMS WHICH, IN THE ARCHITECTS SOLE OPINION, SHOULD
HAVE BEEN INCLUDED IN THE SCOPE OF WORK OF THE CONTRACTOR AND/OR
SUB-CONTRACTOR IN ORDER TO CARRY OUT THEIR WORK OR THE
ARCHITECT'S INTENT AS TO WHAT SHOULD HAVE BEEN INCLUDED TO MAKE
THE WORK COMPLETE AND FUNCTIONAL SHALL BE INCLUDED IN THE WORK,
WHETHER OR NOT SHOWN OR DESCRIBED IN THE DOCUMENTS. NO EXTRA
PAYMENT SHALL BE MADE OR CLAIMS ENTERTAINED AS A RESULT OF SUCH
ITEMS.

26) PRIOR TO ALL FABRICATION, THE CONTRACTOR SHALL SUBMIT SHOP
DRAWINGS AND SAMPLES FOR APPROVAL BY THE ARCHITECT.

7) WOOD TREATMENT: WHERE TIMBER, LUMBER OR PLYWOOD IS INDICATED
AS "TREATED" IT SHALL BE "CELLON" PRESSURE PROCESSED IN ACCORDANCE
WITH SPECIFICATION FOR TREATMENT OF KOPPERS COMPANY, INC., AND THE
STANDARDS OF THE AMERICAN WOOD PRESERVERS ASSOCIATION STANDARD
C-2 (LUMBER & TIMBER) AND C-9 (PLYWOOD). RETENTION OF THE
PENTACHLOROPHENOL SHALL BE 0.60 LBS./CU.FT. AFTER TREATMENT, KILN
DRY TO A MAXIMUM MOISTURE CONTENT OF 19%.

(A) PRESSURE TREAT ALL GROUND CONTACT ITEMS WITH PRESERVATIVES
COMPLYING WITH AWPA LP-22 AND THE FOLLOWING:
1. LUMBER SHALL BE C-2 PRESSURE TREATED PER AWPA STANDARDS
2. POSTS SHALL BE C-4 PRESSURE TREATED PER AWPA STANDARDS.

(B) ALL FASTENERS IN CONTACT W/ PRESSURE TREATED WOOD TO HAVE A
DOUBLE HOT DIPPED GALVANIZED FINISH OR EQUAL PROTECTION FROM
CORROSIVE CHARACTERISTICS OF TREATED WOOD ON METAL.

28) ALL MASONRY BELOW GRADE OR EXPOSED TO WEATHER AND
/ OR MOISTURE SHALL HAVE "DRI-BLOCK" OR EQUAL MASONRY
SEALANT. SEALANT TO BE APPLIED BY C.M.U. MANUFACTURER OR
ON SITE, BY MASONRY INSTALLER, AS RECOMMEND BY SEALANT
MANUFACTURER. (MASONRY CONTRACTOR TO SUBMIT METHOD
AND SPECIFICATIONS OF SEALANT TO ARCHITECT FOR
APPROVAL).

29) ALL STEEL MARKINGS TO BE THOROUGHLY REMOVED PRIOR
TO PAINTING.

30) ALL DRYWALL TO HAVE CONTROL JOINTS AT 20'-0" MAXIMUM.

31) ALL PAINT PER PRODUCT MANUFACTURERS AND PAINT
RECOMMENDED SPECIFICATIONS.

32) APPROPRIATE U.L. LISTED FIRE STOPPING DEVICES, MATERIAL,
OR CAULKING TO BE USED AT, AROUND, OR IN CONJUNCTION
WITH PENETRATIONS, JOINTS, OR OPENINGS IN FIRE RATED
ASSEMBLIES.

33) ALL ACCESSIBILITY SIGNS TO BE MOUNTED PER A.D.A.
REGULATIONS.

34) PROVIDE TACTILE EXIT SIGNS.

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STAR
Design-Build Contractors

RDF Trucking
Proposed Building Addition
7425 Industrial Parkway Lorain, Ohio 44053

Sheet Title

Title Sheet

Architect
John Reyes

Designer
Schmalz

Project Number
22-00028

Date
2022-07-14

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