

PROPOSED NEW RECLAMATION BUILDING FOR :

ALTER TRADING

1640 WEST BRUCE STREET (FACILITY / CAMPUS ADDRESS)
 1640 WEST BRUCE STREET (PROPOSED NEW BUILDING ADDRESS TO BE DETERMINED)
 MILWAUKEE, WISCONSIN 53204



1 PERSPECTIVE VIEW LOOKING SOUTHEAST
 12" = 1'-0"

CODE CALCULATIONS AND ANALYSIS:

OCCUPANCY CALCULATION:

OCCUPANCY F2 FACTORY / NON-FERROUS RECLAMATION FACILITY (PRIMARY)
 100 SQUARE FEET IS MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT
 20,317 SQUARE FEET GROSS / 100 SQUARE FEET PER PERSON = 203 PEOPLE
 OCCUPANCY B BUSINESS (SECONDARY)
 100 SQUARE FEET IS MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT
 4,451 SQUARE FEET GROSS / 100 SQUARE FEET PER PERSON = 45 PEOPLE
 TOTAL OCCUPANCY = 248 PEOPLE MAXIMUM CALCULATED

PLUMBING FIXTURE CALCULATION:

BASED ON B BUSINESS OCCUPANCY = 45 PEOPLE
 TOILET FIXTURES (WC) REQUIRED AND PROVIDED ARE AS FOLLOWS:
 B MEN = 0.9 FIXTURE (WC) REQUIRED
 B WOMEN = 0.9 FIXTURE (WC) REQUIRED
 BASED ON F-2 LOW HAZARD FACTORY OCCUPANCY = 203 PEOPLE
 TOILET FIXTURES (WC) REQUIRED AND PROVIDED ARE AS FOLLOWS:
 S-1 MEN = 1.02 FIXTURE (WC) REQUIRED
 S-1 WOMEN = 1.02 FIXTURE (WC) REQUIRED

TOTAL (WC) FIXTURES REQUIRED - MEN = 1.92 FIXTURES 2 PROVIDED 5 PROVIDED
 TOTAL (WC) FIXTURES REQUIRED - WOMEN = 1.92 FIXTURES 2 PROVIDED 2 PROVIDED
 MEN AND WOMEN FIXTURES (WC) REQUIRED 4 TOTAL AND PROVIDED 6 TOTAL OK
 LAVATORY FIXTURES REQUIRED AND PROVIDED ARE AS FOLLOWS:
 B MEN AND WOMEN 45 = 1.13 LAVATORY FIXTURE REQUIRED, 2 PROVIDED 2
 S-1 MEN AND WOMEN 203 = 2.03 LAVATORY FIXTURE REQUIRED, 2 PROVIDED 2
 MEN AND WOMEN FIXTURES (LAV) REQUIRED 4 TOTAL AND PROVIDED 4 TOTAL OK

EXIT WIDTH REQUIRED AND EXIT ACCESS TRAVEL DISTANCE:

EXIT WIDTH REQUIRED 248 x .20 = 49.60 INCHES OR 32 INCHES EACH MINIMUM CLEAR X (2) EXITS
 EXIT WIDTH PROVIDED (4) 36" WIDE DOORS X 34" = 132" WIDTH
 TOTAL EXIT WIDTH PROVIDED OF 102" EXCEEDS REQUIRED EXIT WIDTH CALCULATED (49.6")
 TOTAL NUMBER OF EXISTING EXITS PROVIDED (4) EXCEEDS THE NUMBER OF EXITS REQUIRED (2)
 REFER TO SHEET A0.1 FOR ADDITIONAL INFORMATION
 EXIT TRAVEL DISTANCE = LESS THAN 150' IBC TABLE 1017.2

AREA AND HEIGHT LIMITATION CALCULATIONS:

PER IBC TABLE 506.2
 FOR OCCUPANCY GROUP F2 (TYPE 2B CONSTRUCTION (INCLUDES AUTOMATIC SPRINKLER INCREASE) PLUS FRONTAGE INCREASE,
 1 STORY AND 92,000 S.F. ALLOWED FROM TABLE 506.2 WHICH INCLUDES SPRINKLER INCREASE FRONTAGE INCREASE = 43,240 S.F.
 THE ACTUAL SIZE IS 20,316 OR 22,535 S.F.
 FRONTAGE INCREASE CALCULATION IBC 506.3:
 F = 503
 P = 704
 W = 30
 503/704 = .714474446
 .714474446 - .25/30/30 = INCREASE RATIO
 .72 - .25/1 = .47 (92,000) = 43,240 S.F.
 AMOUNT OF FRONTAGE INCREASE ALLOWED IS 43,240 S.F. FOR A TOTAL OF 135,240 S.F.
 THE MAXIMUM ALLOWABLE BUILDING AREA IS 92,000 + 43,240 = 135,240 S.F. ACTUAL IS 22,535 S.F.
 THE BUILDING IS NOT CLASSIFIED AS AN UNLIMITED AREA BUILDING PER SECTION 507.4
 THE BUILDING AREA IS AT OR BELOW THE ALLOWABLE AREA LIMITS AND
 STORY LIMITS PER TABLE 506.2 WITH AUTOMATIC SPRINKLER INCREASE.
 THE BUILDING IS BELOW ALLOWABLE HEIGHT LIMIT OF 55 FEET. THE ACTUAL HEIGHT IS 54'-4" FEET. PER TABLE 504.3
 ALLOWABLE NUMBER OF STORIES IS TWO AND THE BUILDING HAS ONLY ONE STORY AND A MEZZANINE LEVEL.

MULTIPLE OCCUPANCIES:

BUILDING DESIGN IS BASED ON SEPARATED OCCUPANCIES PER IBC 508.
 WE PROPOSED TO SEPARATE THE TWO OCCUPANCIES TYPES FROM EACH OTHER AND TWO CREATE TWO
 BUILDINGS SEPARATED BY FIREWALL TO ALLOW FOR BUILDING AREA LIMITS TO COMPLY.
 PER TABLE IBC 508.4 THE REQUIRED BETWEEN B AND H3 OCCUPANCY IS (1) HOUR; HOWEVER PER IBC SECTION
 706 FIREWALLS WE ARE REQUIRED TO USE A 3 HOUR FIRE RESISTIVE RATING FOR EITHER B OR H3 OCCUPANCIES.
 SINCE WE NEED TO CREATE SEPARATED BUILDINGS, WE PROPOSE TO USE A 3 HOUR RATED FIREWALL PER IBC
 TABLE 706.4. OPENINGS SHALL BE PROTECTED WITH CORRESPONDING 3 HOUR RATED OPENING PROTECTIVES.

CONSTRUCTION CLASSIFICATION REQUIREMENTS:

PER IBC TABLE 601 AND TABLE 602:
 TYPE IIB CONSTRUCTION:
 PRIMARY STRUCTURAL FRAME "0" RATING REQUIRED
 INTERIOR BEARING WALLS "0" RATING REQUIRED
 EXTERIOR BEARING WALLS "0" RATING REQUIRED
 EXTERIOR NON-BEARING WALLS (PER TABLE 602.10 < 30 FEET) "0" RATING REQUIRED
 NON-BEARING WALLS AND PARTITIONS "0" RATING REQUIRED
 FLOOR CONSTRUCTION AND SECONDARY MEMBERS "0" RATING REQUIRED
 ROOF CONSTRUCTION AND SECONDARY MEMBERS "0" RATING REQUIRED

EXTERIOR WALL OPENINGS ALLOWED:

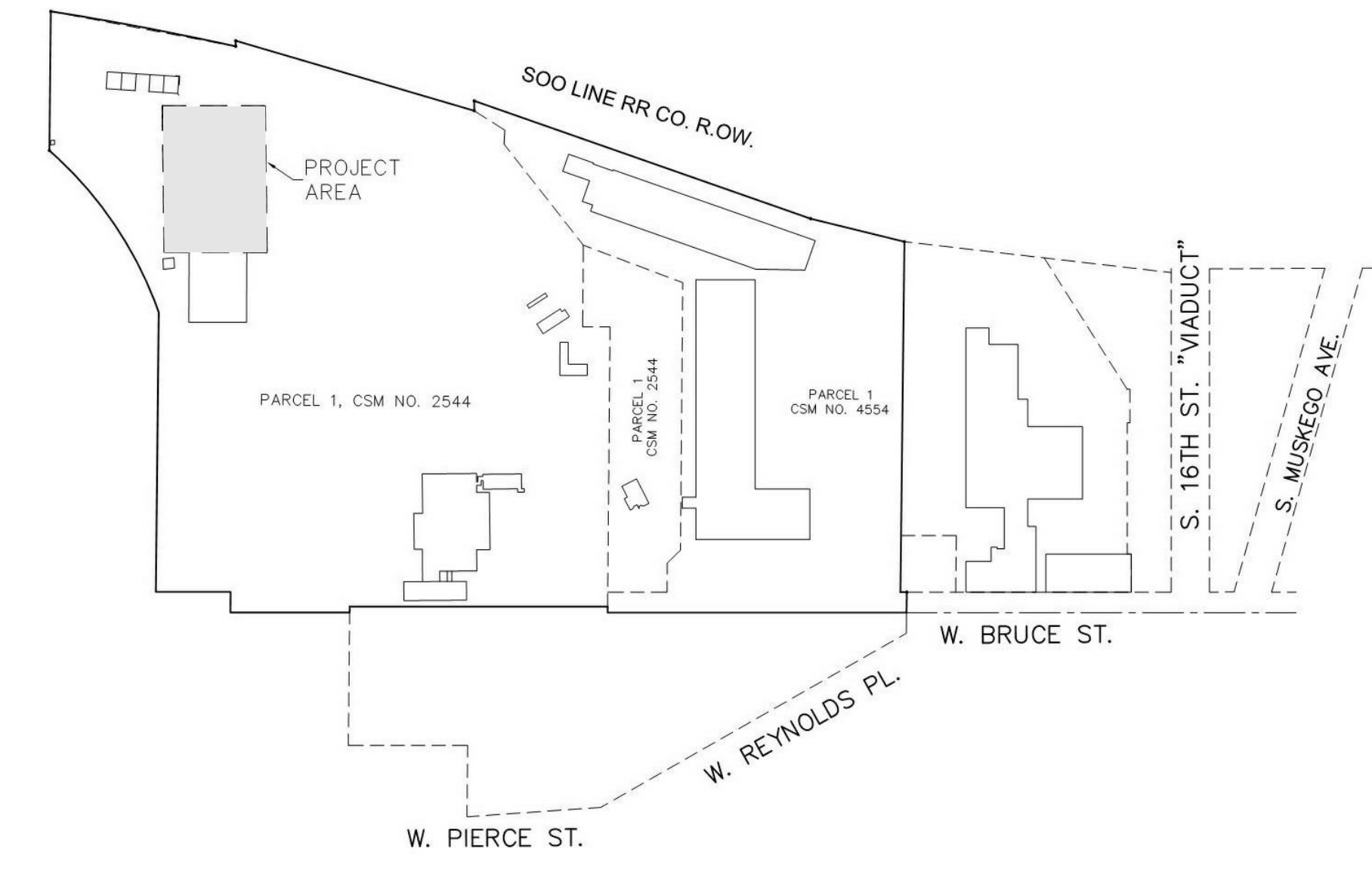
PER IBC TABLE 705.8:
 THE NEW WALLS OF THE PROPOSED ADDITION ARE GREATER THAN 30 FEET AWAY
 FROM THE PROPERTY LINE OR STREET; THEREFORE, THERE ARE NO RESTRICTIONS
 ON OPENINGS BOTH PROTECTED AND UNPROTECTED.

BUILDING ENVELOPE REQUIREMENTS:

BUILDING ENVELOPE REQUIREMENTS: PROPOSED TO USE PRESCRIPTIVE METHOD,
 PER SPS 363.0402 BUILDING ENVELOPE REQUIREMENTS. (1) OPAQUE ASSEMBLIES,
 SUBSTITUTE 2009 IECC TABLE 502.2 (1) PER SPS 363.5402 BUILDING ENVELOPE
 REQUIREMENTS. (1) INSULATION AND FENESTRATION REQUIREMENTS BY
 COMPONENT. REFER TO SHEET AS.1 EXTERIOR ELEVATIONS.

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SV1.1	EXISTING CONDITIONS SURVEY
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C3.0	EROSION CONTROL PLAN
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A4.1	NEW ROOF PLAN
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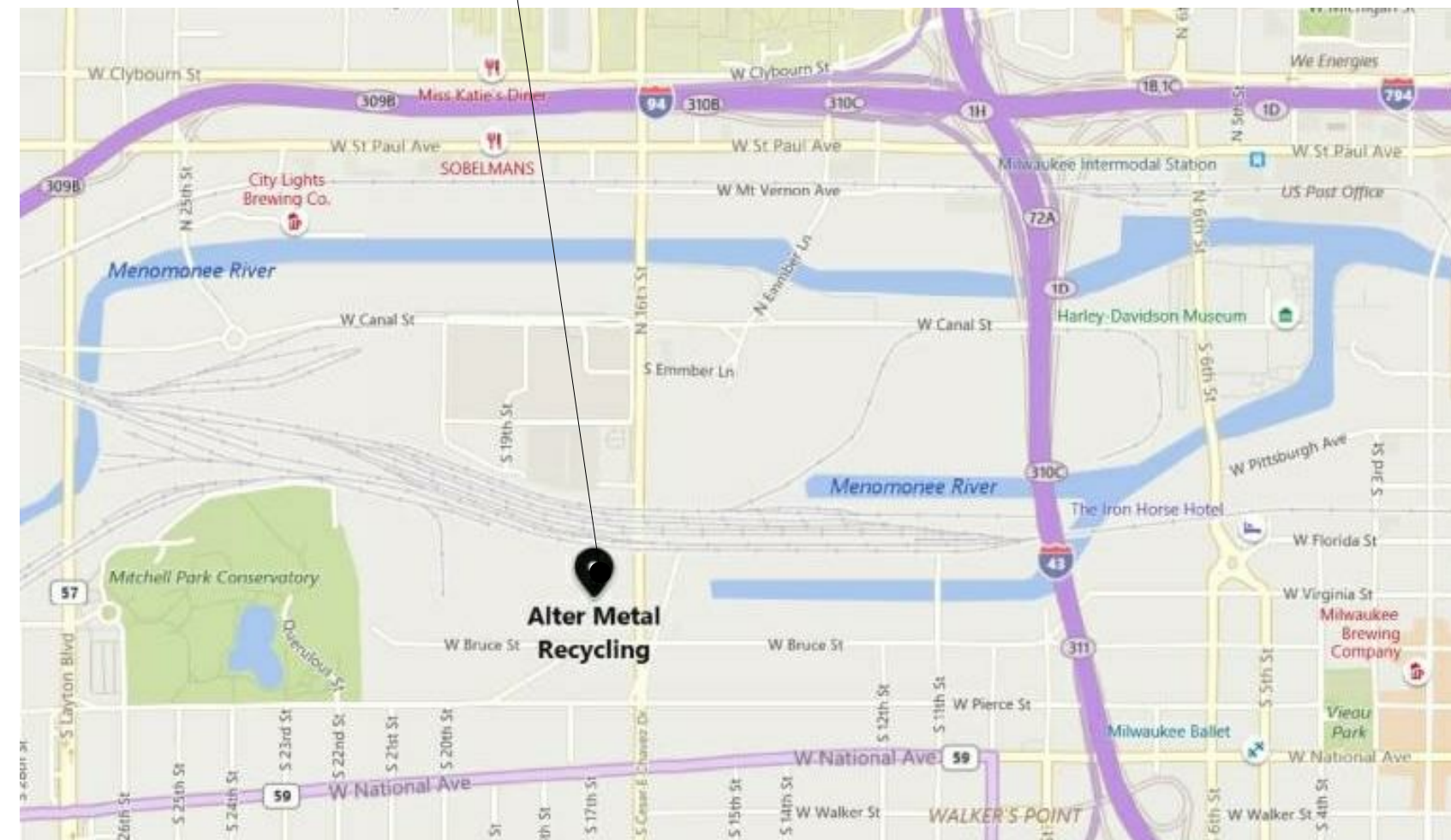


4 VICINITY MAP
 N.T.S.

PLAN COMMISSION SUBMITTAL PLANS
 APRIL 16, 2019

OWNER : ALTER TRADING CORPORATION JAMIE WILSON 700 OFFICE PARKWAY ST. LOUIS, MO 63141 (314) 787-3910 PHONE	GENERAL CONTRACTOR : BRIOHN BUILDING CORPORATION PEYTON PAQUIN, PM 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX	ARCHITECT : BRIOHN DESIGN GROUP LLC DOMENICO FERRANTE, AIA 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX
CIVIL ENGINEER: C.J ENGINEERING CHRISTOPHER A. JACKSON, PE 9205 W. CENTER STREET, SUITE 214 MILWAUKEE, WI 53222 (414) 443-1312 PHONE (414) 940-4450 FAX	STRUCTURAL ENGINEER: BRIOHN DESIGN GROUP LLC KEVIN JANKOWSKI, PE 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX	

PROJECT LOCATION:



STREET MAP
 N.T.S.

PROJECT INFORMATION:

BUILDING CODE:
 2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 362
 2015 INTERNATIONAL EXISTING BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 366
ACCESSIBILITY CODE:
 2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 362
 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
ENERGY CODE:
 2015 IECC INTERNATIONAL ENERGY CONSERVATION CODE WITH WISCONSIN AMENDMENTS SPS 363
MECHANICAL CODE:
 2015 INTERNATIONAL MECHANICAL CODE WITH WISCONSIN AMENDMENTS SPS 364
PLUMBING CODE:
 2014 WISCONSIN PLUMBING CODE SPS 381-387
ELECTRICAL CODE:
 2011 NFPA 70 NATIONAL ELECTRICAL CODE WITH WISCONSIN AMENDMENTS SPS316
FIRE CODE:
 2006 INTERNATIONAL FIRE CODE ADOPTED PER MILWAUKEE CODE OF ORDINANCES (MCO 214-3)

NOTE:
 ALL MECHANICAL, ELECTRICAL,
 PLUMBING AND FIRE SPRINKLER
 ENGINEERING BY DESIGN-BUILD
 CONTRACTORS

OCCUPANCY:	MANUFACTURING FACILITY - PRIMARY OFFICE - SECONDARY	BUILDING AREA:	
CLASS OF CONSTRUCTION:	TYPE 2B	RECLAMATION AREA - FIRST FLOOR	20,316 SF
SPRINKLER SYSTEM:	FULL	OFFICE AREA - FIRST FLOOR	2,219 SF
FLOOR LEVELS:	1	TOTAL - FOOTPRINT	22,535 SF
NUMBER OF STORIES:	1+MEZZANINE	OFFICE AREA - MEZZANINE LEVEL	2,232 SF
		TOTAL - OVERALL	24,767 SF

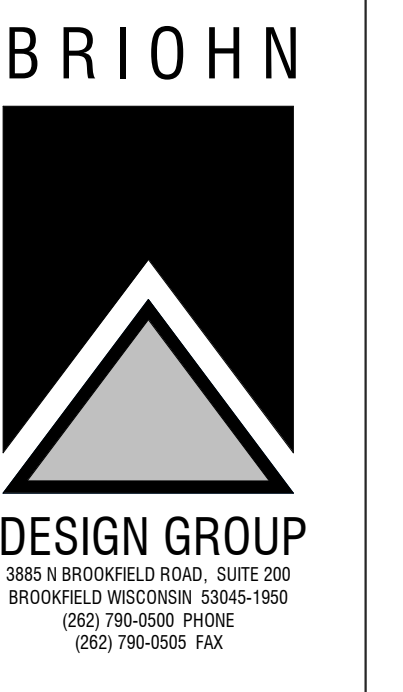
TRUE NORTH

 PLAN NORTH

 APPLICABLE
 TO ALL
 PLAN VIEWS

JOB:	3149
DRAWN:	CK/CJR
CHECKED:	DF
DATE:	04-16-2019
SHEET:	

T1.1



TITLE SHEET

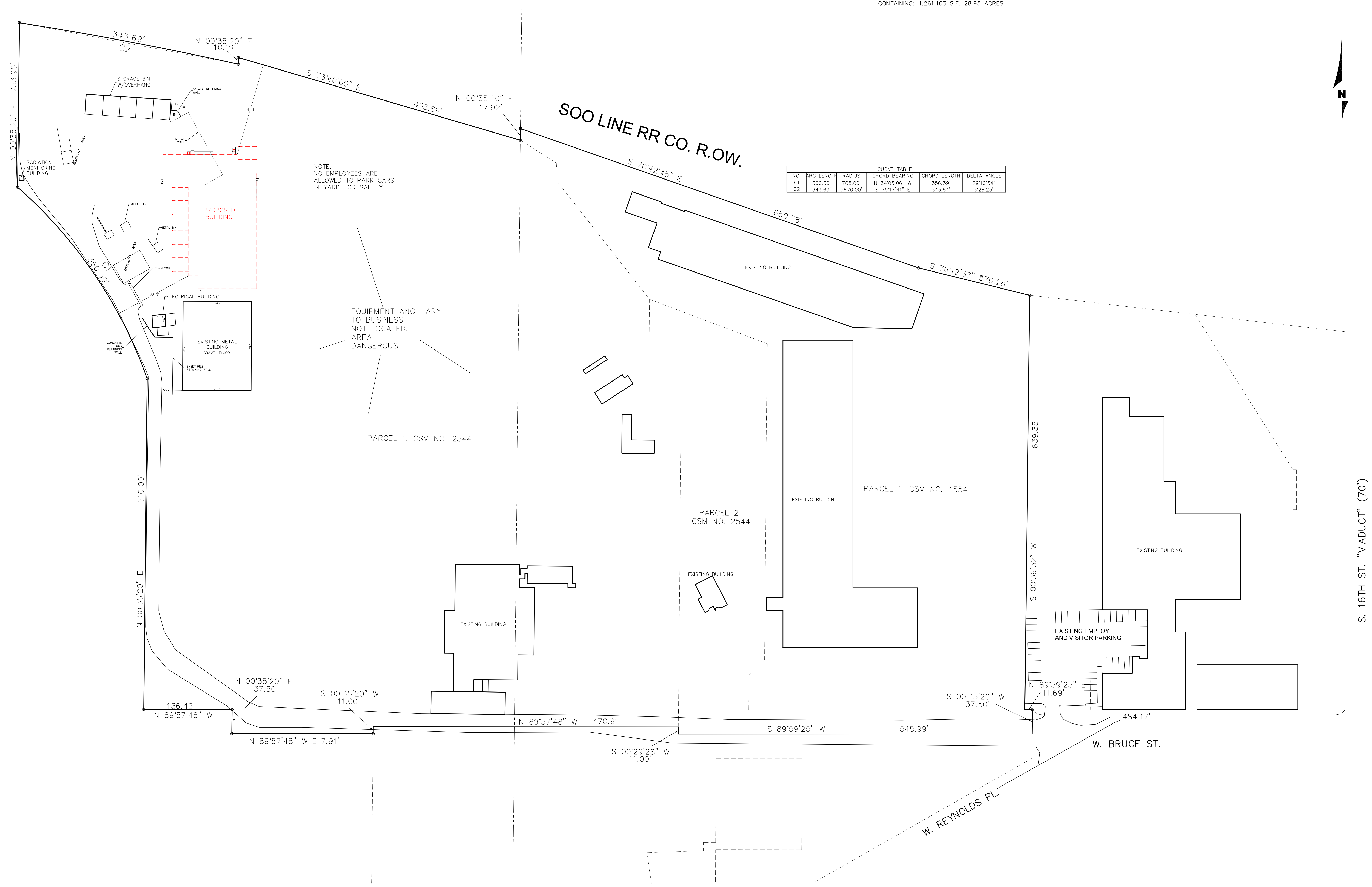
PROPOSED NEW BUILDING FOR:
 ALTER TRADING
 1640 WEST BRUCE STREET
 MILWAUKEE, WISCONSIN

DESCRIPTION

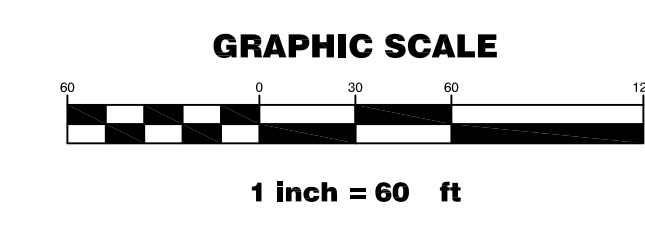
PARCEL 1 AND 2 OF, CERTIFIED SURVEY MAP NO. 2544, BEING PARCEL II OF CERTIFIED SURVEY MAP NO. 2318, PARCEL 1 OF CERTIFIED SURVEY MAP NO. 4554, BEING A REDIVISION OF PARCEL 1 IN CERTIFIED SURVEY MAP 2219, PARCEL 1 IN CERTIFIED SURVEY MAP AND 3643 AND PARCELS 2 AND 3 OF CERTIFIED SURVEY MAP NO. 4114, BEING A PART OF THE NORTHEAST 1/4 AND NORTHWEST 1/4 OF SECTION 31, TOWN 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

CONTAINING: 1,261,103 S.F. 28.95 ACRES

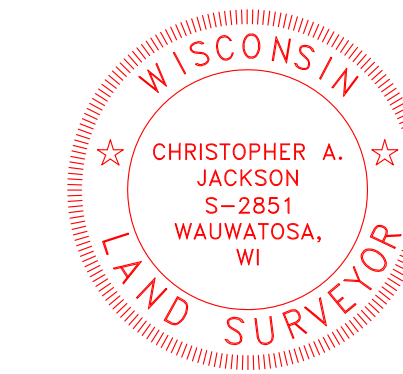
CURVE TABLE					
NO.	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	360.30'	705.00'	N 34°05'06" W	356.39'	29°16'54"
C2	343.69'	5670.00'	S 79°17'41" F	343.64'	3°28'23"



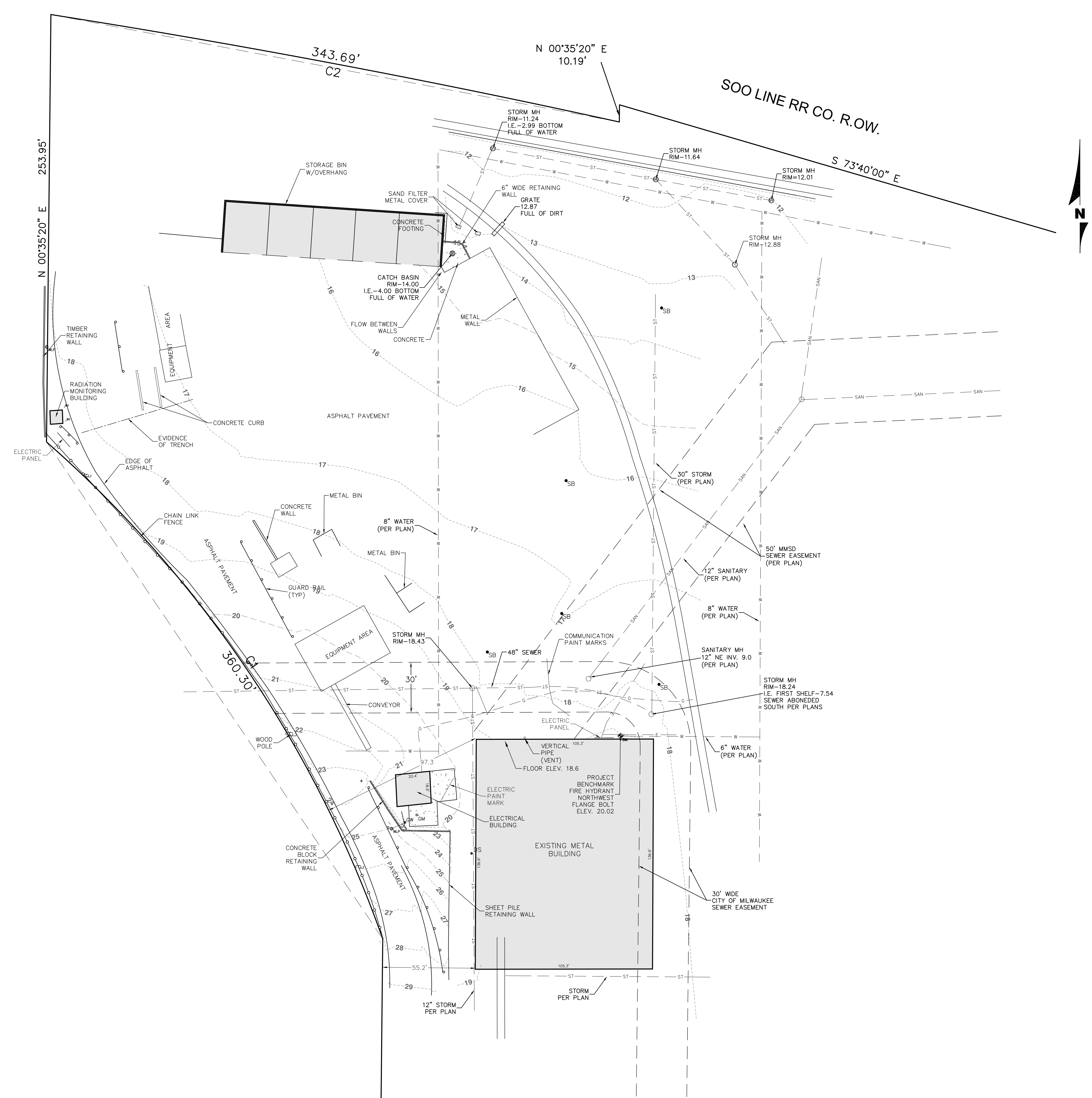
ALTER TRADING
 1800 W. BRUCE STREET MILWAUKEE, WI



CJE NO.: 1908R2
 APRIL 15, 2019



C. Jackson



DESCRIPTION
 PART OF PARCEL 1, CERTIFIED SURVEY MAP NO. 2544, BEING PARCEL II OF CERTIFIED SURVEY MAP NO. 2318, BEING A PART OF THE NORTHEAST 1/4 AND NORTHWEST 1/4 OF SECTION 31, TOWN 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

- SURVEYOR'S NOTES**
- 1) BASIS OF BEARINGS - PER CERTIFIED SURVEY MAP NO. 2544
 - 2) UNDERGROUND SEWER AND UTILITY INFORMATION AS SHOWN IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO.
 - 3) THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
 - 4) UTILITY INFORMATION FROM BOTH FIELD LOCATION AND UTILITY PLANS OBTAINED.
 - 5) SEE SHEET SV1.0 FOR ENTIRE PARCEL.

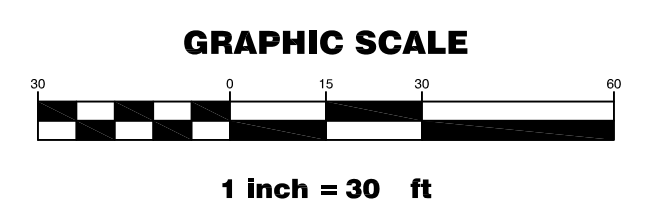
LEGEND

BASKETBALL HOOP (BH)	LIGHT POLE	ABBREVIATIONS	LINE TYPES (CONT.)
BENCHMARK (BM)	MAIL BOX (MB)	F/L FLOW LINE	METAL FENCE
BOLLARD (BO)	MANHOLE (MH)	I/E INVERT ELEVATION	WOOD FENCE
BUSH, SHRUB, ETC.	MONITORING WELL (MW)	IPD FOUND	WOOD TENCE
CATCH BASIN ROUND (CBT)	MONITORING WELL (MW)	MLP METAL LIGHT POLE	GUARD RAIL
CATCH BASIN SQUARE (CBS)	SOIL BORING (SB)	MLP CONCRETE LIGHT POLE	BURIED CABLE TV
CLEAN OUT (CO)	TRAFFIC LIGHT (TL)	MS METAL SIGN	BURIED COMMUNICATIONS
CURB INLET (CI)	DECIDUOUS TREE (TR)	DM GAS METER	COMBINATION SEWER
EVERGREEN TREE (ET)	UTILITY MARKER	EM ELECTRIC METER	BURIED ELECTRIC
FIRE HYDRANT (HY)	UTILITY METER	EP.E. FIRST FLOOR ELEVATION	BURIED FIBER OPTIC
FLAG POLE (FP)	UTILITY PEDESTAL	FO FIBER OPTIC CABLE	BURIED GAS SERVICE
GUY WIRE (GW)	UTILITY VALVE	WV WATER VALVE	OVERHEAD UTILITY LINES
HANDICAP	WATER WELL	WLF WETLAND FLAG	SANITARY SEWER
IRON PIPE (I.P.)		YL YARD LIGHT	STORM SEWER
		LINE TYPES	BURIED TELEPHONE
			WATER MAIN / SERVICE

DIGGERS HOTLINE
 CALL 800.675.HOZZUM
 811 or 1-800-242-8511 / MILW. AREA 268-1181
 WI STATUTE 182.0175(1074) REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

CURVE TABLE

NO.	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	360.30'	705.00'	N 34°02'06" W	356.39'	29°16'54"
C2	343.69'	5670.00'	S 79°17'41" E	343.64'	3°28'23"

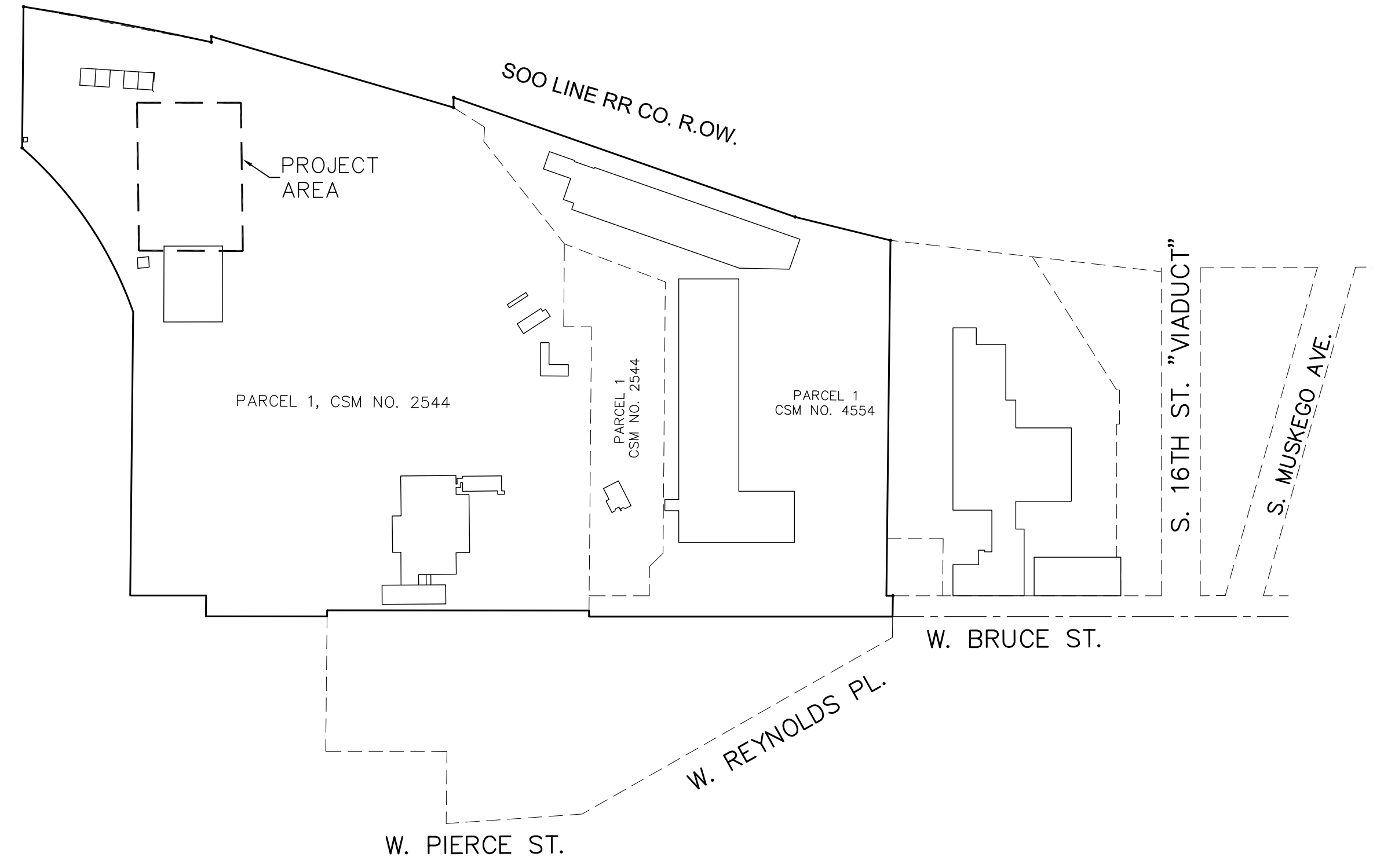


ALTER TRADING
 1800 W. BRUCE STREET
 MILWAUKEE, WI

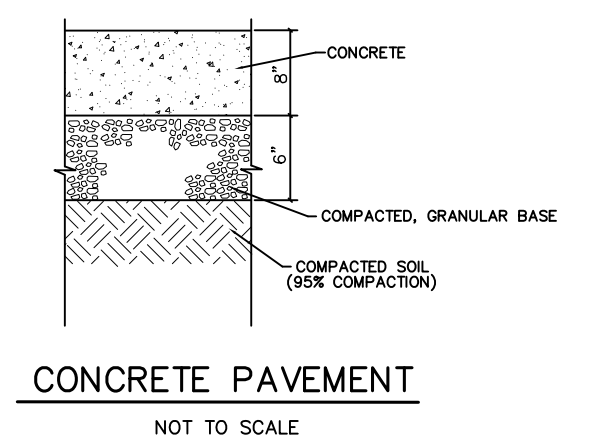
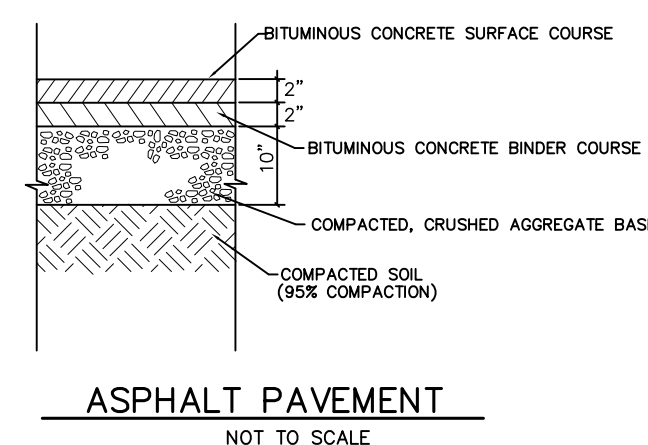
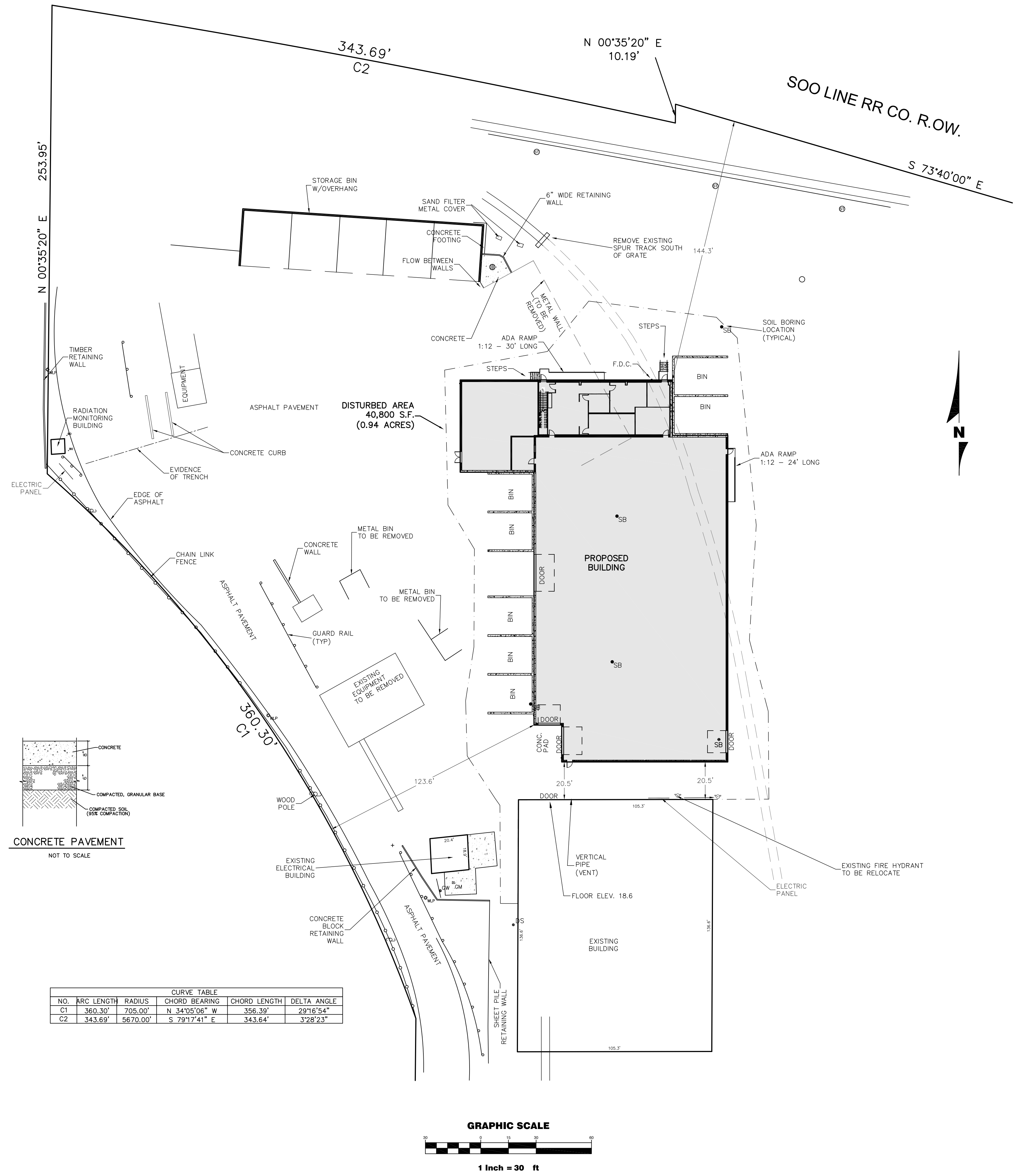
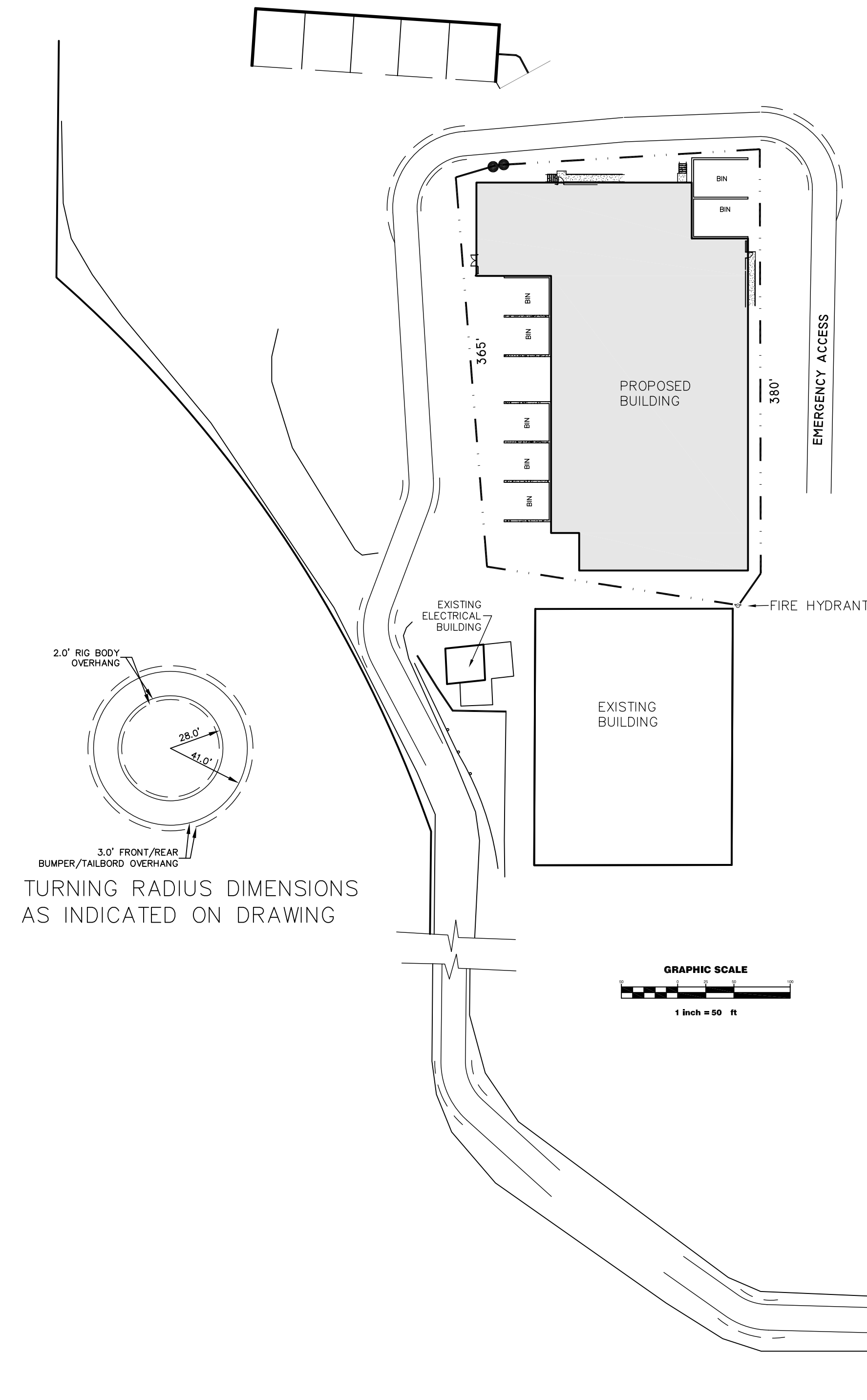
CJE NO.: I908R0EX
 APRIL 16, 2019

SITE AREA MAP

SCALE 1" = 200'



FIRE APPRATUS AND HYDRANT EXHIBIT

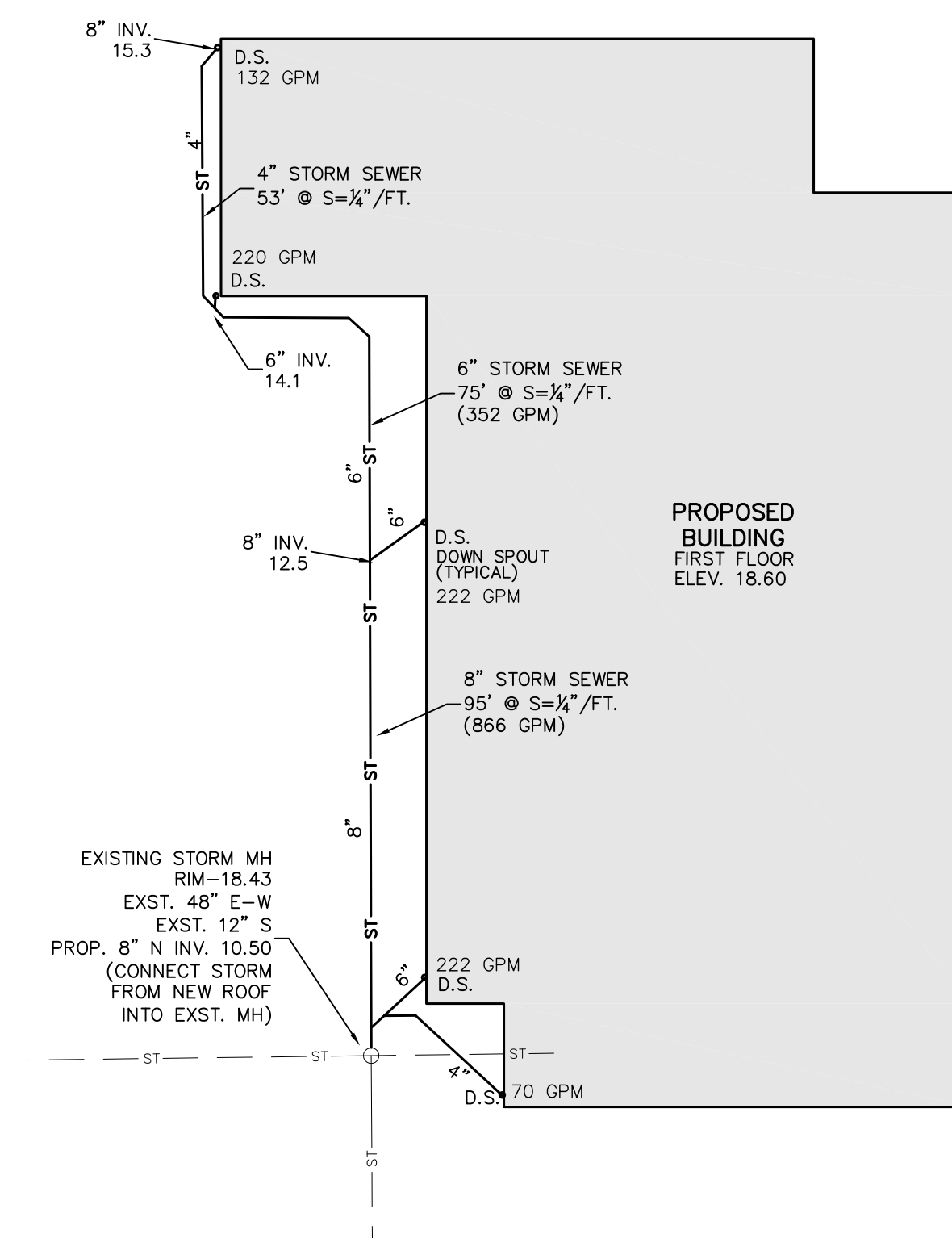


CURVE TABLE					
NO.	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	360.30'	705.00'	N 34°05'06" W	356.39'	29°16'54"
C2	343.69'	5670.00'	S 79°17'41" E	343.64'	3°28'23"

NOTES:
 1. THE PROPOSED DEVELOPMENT IS IN AN AREA OF 100% IMPERVIOUS SURFACE. SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRE AND THERE WILL BE NO CHANGE IN THE AMOUNT OF IMPERVIOUS SURFACE A STORM WATER MANAGEMENT PLAN IS NOT REQUIRED (PER CITY, MMSD AND STATE CODES, ORDINANCES AND RULES).
 2. THE CONTRACTOR TO VERIFY PROPOSED PAVEMENT SECTIONS WITH PROPERTY OWNER.

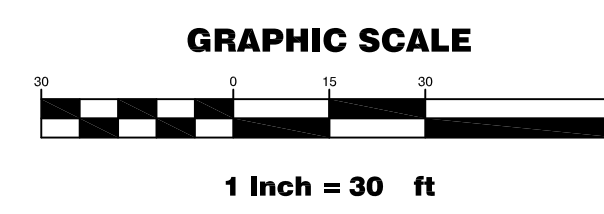
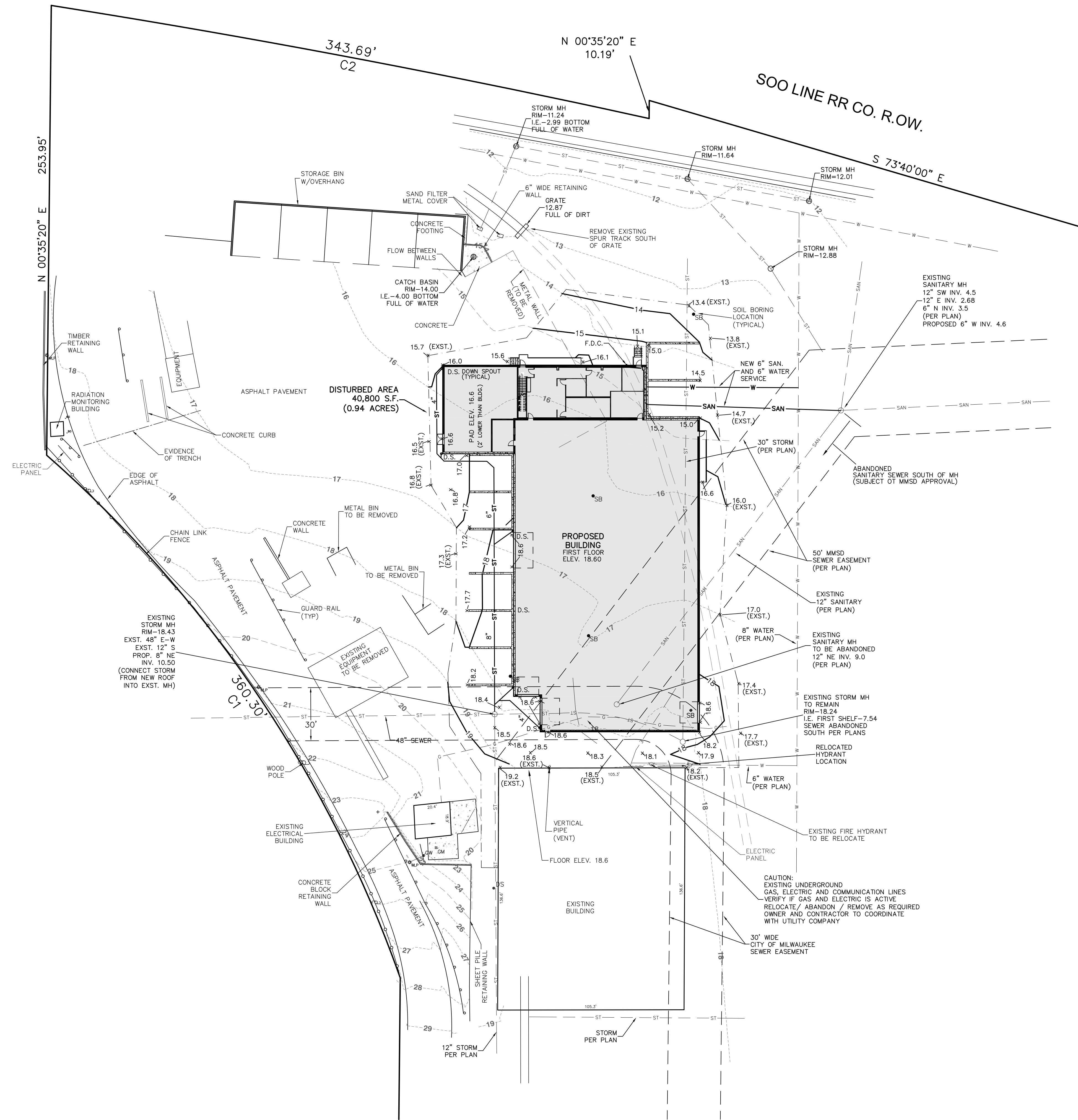
ALTER TRADING
 1800 W. BRUCE STREET
 MILWAUKEE, WI

STORM SEWER DESIGN



- NOTES:**
1. ALL STORM SEWER, SANITARY SEWER, AND WATER MAIN MATERIALS AND INSTALLATION PER APPLICABLE SECTIONS OF THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (STANDARD SPECIFICATIONS), WISCONSIN ADMINISTRATIVE PLUMBING CODE AND THE CITY OF MILWAUKEE REQUIREMENTS.
 2. ALL TRENCHES IN PAVEMENT AREAS SHALL HAVE GRAVEL BACKFILL.
 3. THE EXISTING UTILITIES ARE BASED ON PLANS PROVIDED BY THE OWNER AND WHAT DIGGERS HOTLINE WAS ABLE TO LOCATE PRIOR TO THE SURVEY. THERE MIGHT BE ADDITIONAL EXISTING UTILITIES NOT SHOWN ON THIS PLAN AND/OR THE EXACT EXISTING LOCATION OF THE PER PLAN UTILITIES MIGHT VARY FROM WHAT IS SHOWN.
 4. PROPOSED WATER SERVICE SHALL HAVE A MINIMUM 6 FEET OF COVER.
 5. THE CONTRACTOR SHALL VERIFY ALL SEWER AND WATER CONNECTIONS PRIOR TO UTILITY CONSTRUCTION. NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.
 6. THE PROPOSED DEVELOPMENT IS IN AN AREA OF 100% IMPERVIOUS SURFACE. SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRE AND THERE WILL BE NO CHANGE IN THE AMOUNT OF IMPERVIOUS SURFACE A STORM WATER MANAGEMENT PLAN IS NOT REQUIRED (PER CITY, MMSD AND STATE CODES, ORDINANCES AND RULES).

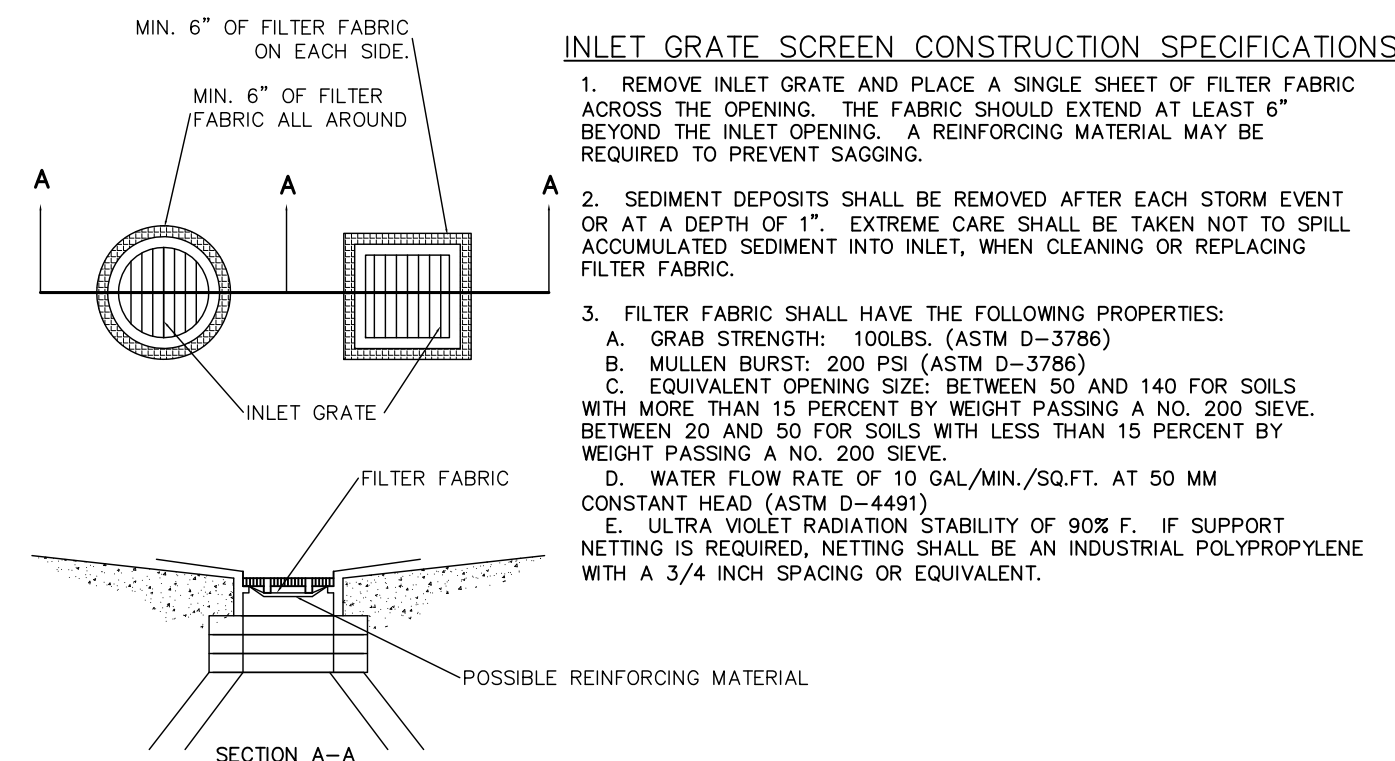
LEGEND	
---	EXISTING CONTOUR
-16-	PROPOSED CONTOUR
x18.5	PROPOSED ELEVATION
---ST---	EXISTING STORM SEWER
---ST---	PROPOSED STORM SEWER
---SAN---	EXISTING SANITARY SEWER
---SAN---	PROPOSED SANITARY SEWER
---W---	EXISTING WATER MAIN
---W---	PROPOSED WATER MAIN
---G---	BURIED GAS MAIN
---E---	OVER HEAD WIRE
---E---	BURIED ELECTRIC
---	DISTURBED AREA



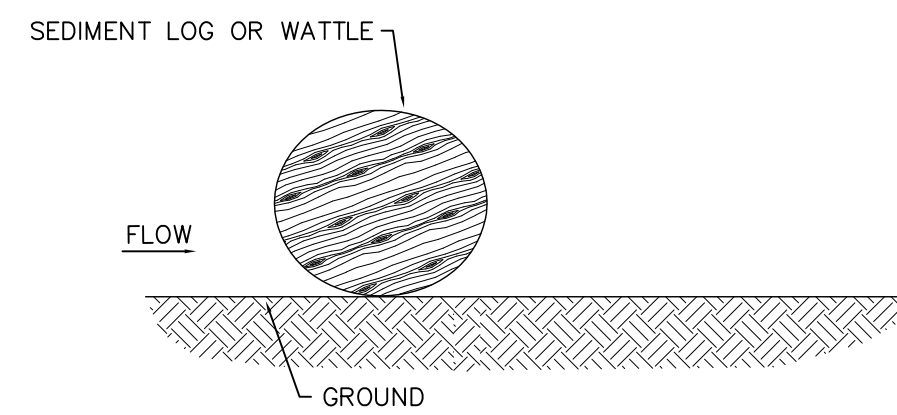
SITE GRADING AND UTILITY PLAN C2.0

CJE NO.: 1908R3
 APRIL 16, 2019

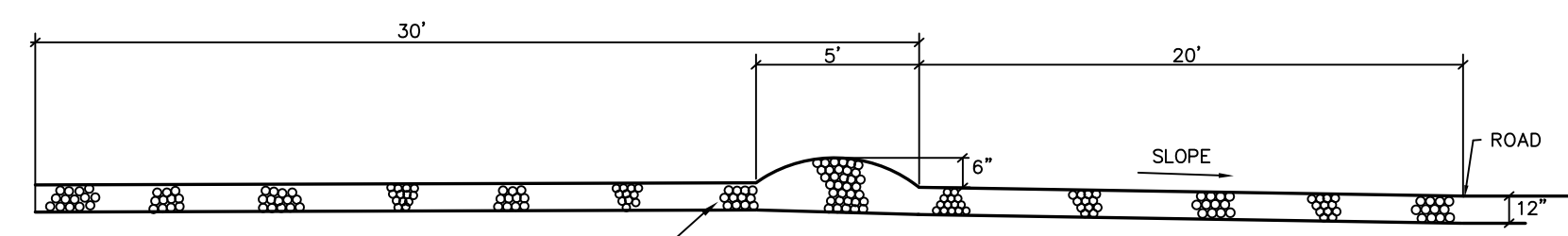
ALTER TRADING
 1800 W. BRUCE STREET
 MILWAUKEE, WI



1
INLET GRATE SCREEN
 PER WDNR TECHNICAL STANDARD 1060
 NOT TO SCALE



2
WATTLE / SEDIMENT LOG
 PER WDNR TECHNICAL STANDARD 1062
 NOT TO SCALE



3
TRACKING PAD
 PER WDNR TECHNICAL STANDARD 1057
 NOT TO SCALE

CONSTRUCTION SCHEDULE

- OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
- FLAG THE WORK LIMIT AND BUFFER AREA FOR PROTECTION.
- INSTALL INLET GRATE SCREENS IN THE EXISTING CATCH BASIN.
- INSTALL SEDIMENT LOG (WATTLE) AS SOON AS FEASIBLE.
- DEMO EXISTING EQUIPMENT TO BE REMOVED.
- INSTALL TRACKING PAD.
- ROUGH GRADE SITE.
- BEGIN BUILDING CONSTRUCTION.
- INSTALL PROPOSED UTILITIES.
- INSTALL BASE COURSE OF PAVEMENT.
- FINAL GRADE SLOPES AND TOPSOIL CRITICAL SLOPES; VEGETATE AND MULCH ALL DISTURBED AREAS.
- ALL EROSION CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL. NEEDED REPAIRS WILL BE PERFORMED IMMEDIATELY.
- AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND VEGETATE THE DISTURBED AREAS.
- ESTIMATED TIME BEFORE FINAL STABILIZATION - 3 MONTHS.

MAINTENANCE PLAN

- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY 1/2" RUNOFF-PRODUCTION RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE WATTLE WHEN IT BECOMES ABOUT 0.3 FT. DEEP. THE WATTLE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING BEFORE THE END OF EACH DAY.

EROSION CONTROL PRACTICES SCHEDULE

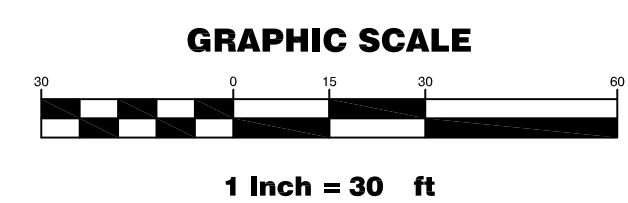
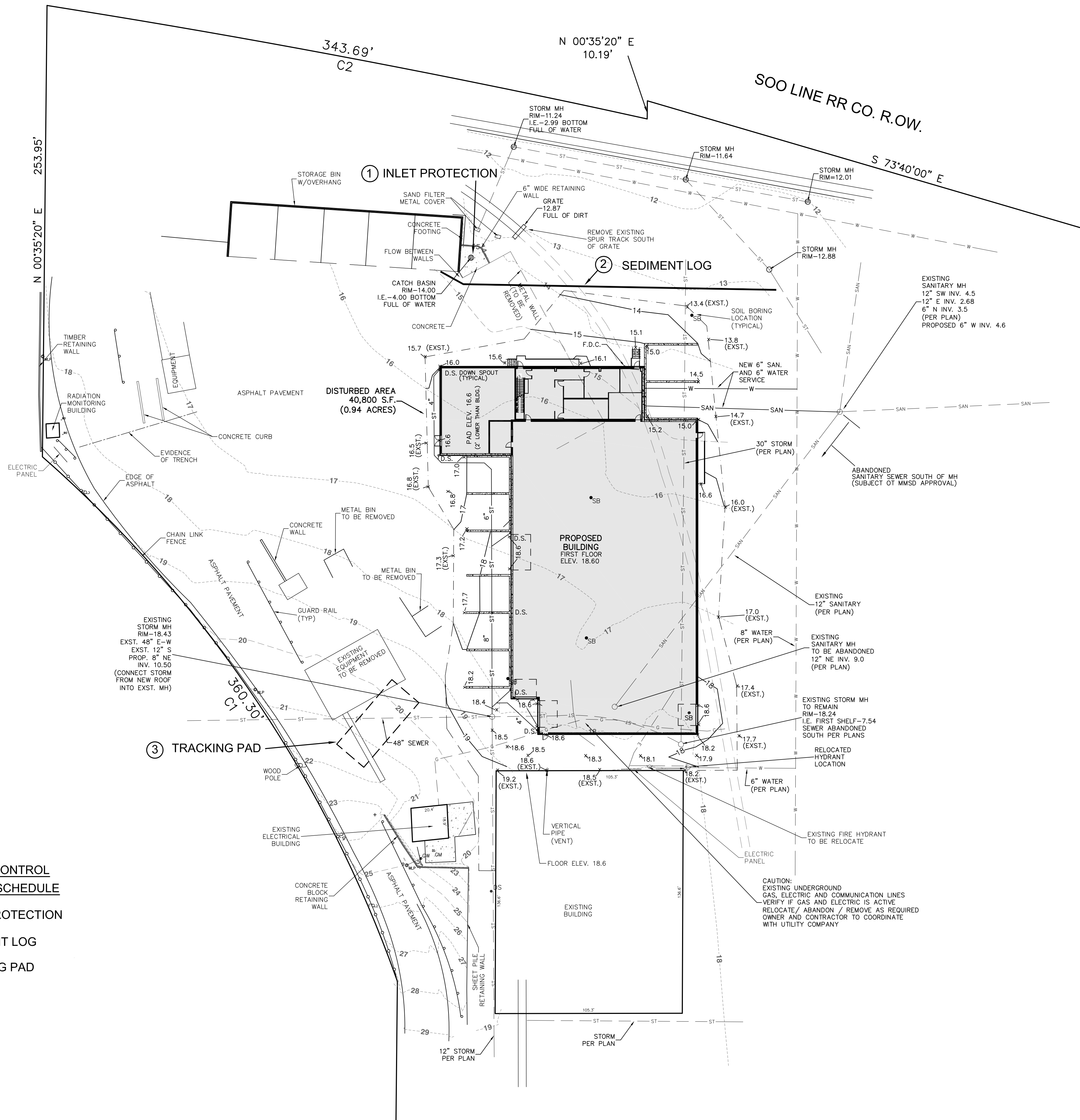
- INLET PROTECTION
- SEDIMENT LOG
- TRACKING PAD

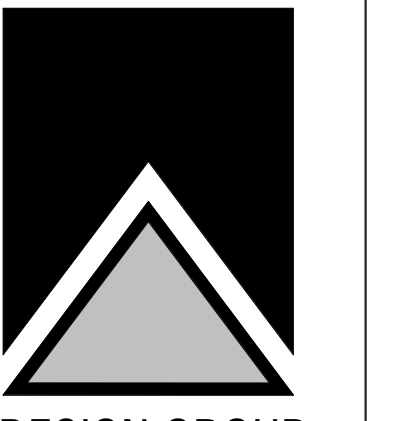
LEGEND	
---	EXISTING CONTOUR
- - -	PROPOSED CONTOUR
x 18.5	PROPOSED ELEVATION
---	EXISTING STORM SEWER
- - -	PROPOSED STORM SEWER
---	EXISTING SANITARY SEWER
- - -	PROPOSED SANITARY SEWER
---	EXISTING WATER MAIN
- - -	PROPOSED WATER MAIN
---	BURIED GAS MAIN
---	OVER HEAD WIRE
---	BURIED ELECTRIC
---	DISTURBED AREA



DISTURBED AREA: 40,800 S.F. (0.94 ACRES)

NOTE:
 THE PROPOSED DEVELOPMENT IS IN AN AREA OF 100% IMPERVIOUS SURFACE. SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRE AND THERE WILL BE NO CHANGE IN THE AMOUNT OF IMPERVIOUS SURFACE A STORM WATER MANAGEMENT PLAN IS NOT REQUIRED (PER CITY, MMSD AND STATE CODES, ORDINANCES AND RULES).





CODE PLAN

SHEET TITLE

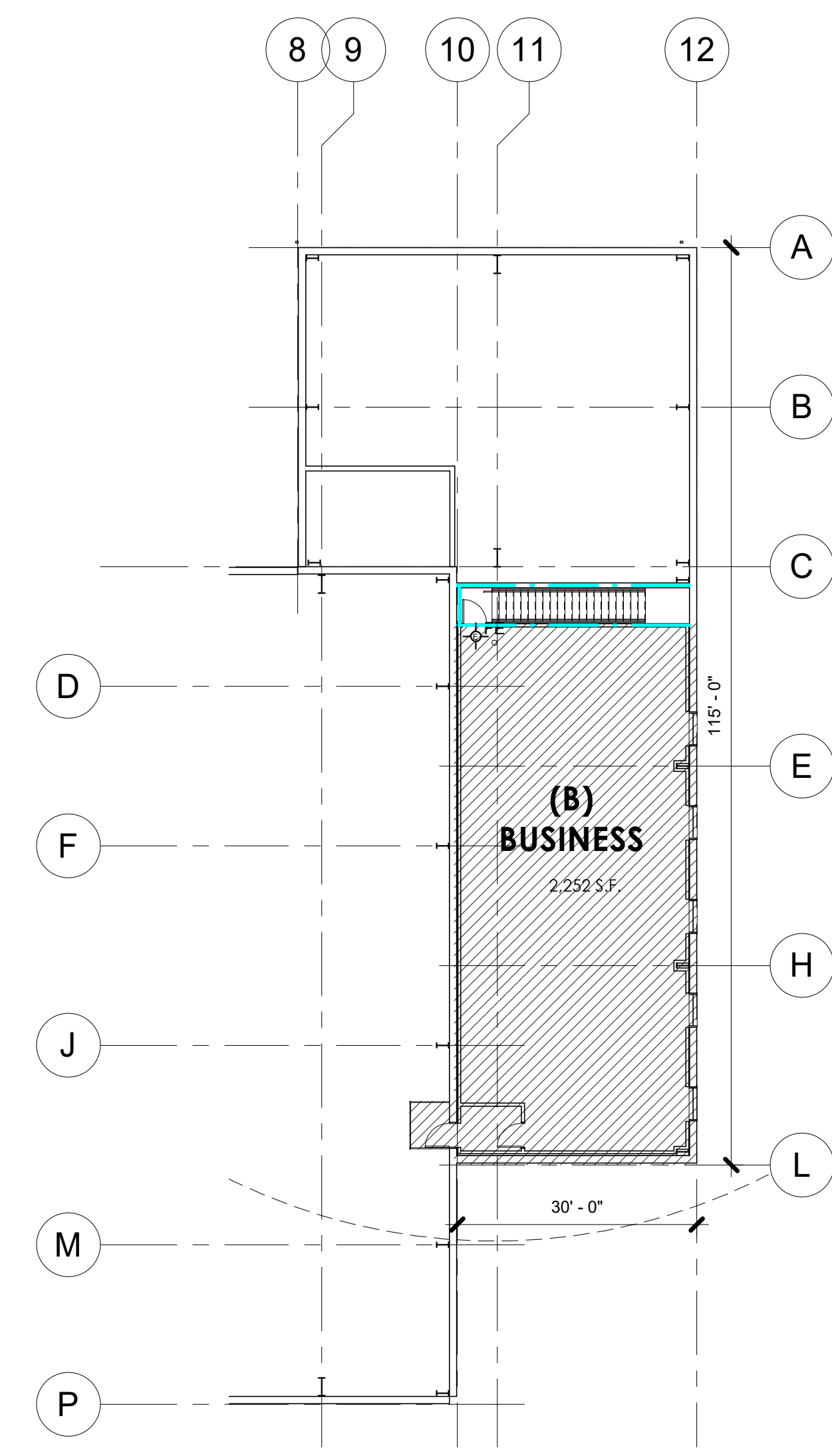
PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN

CODE PLAN LEGEND

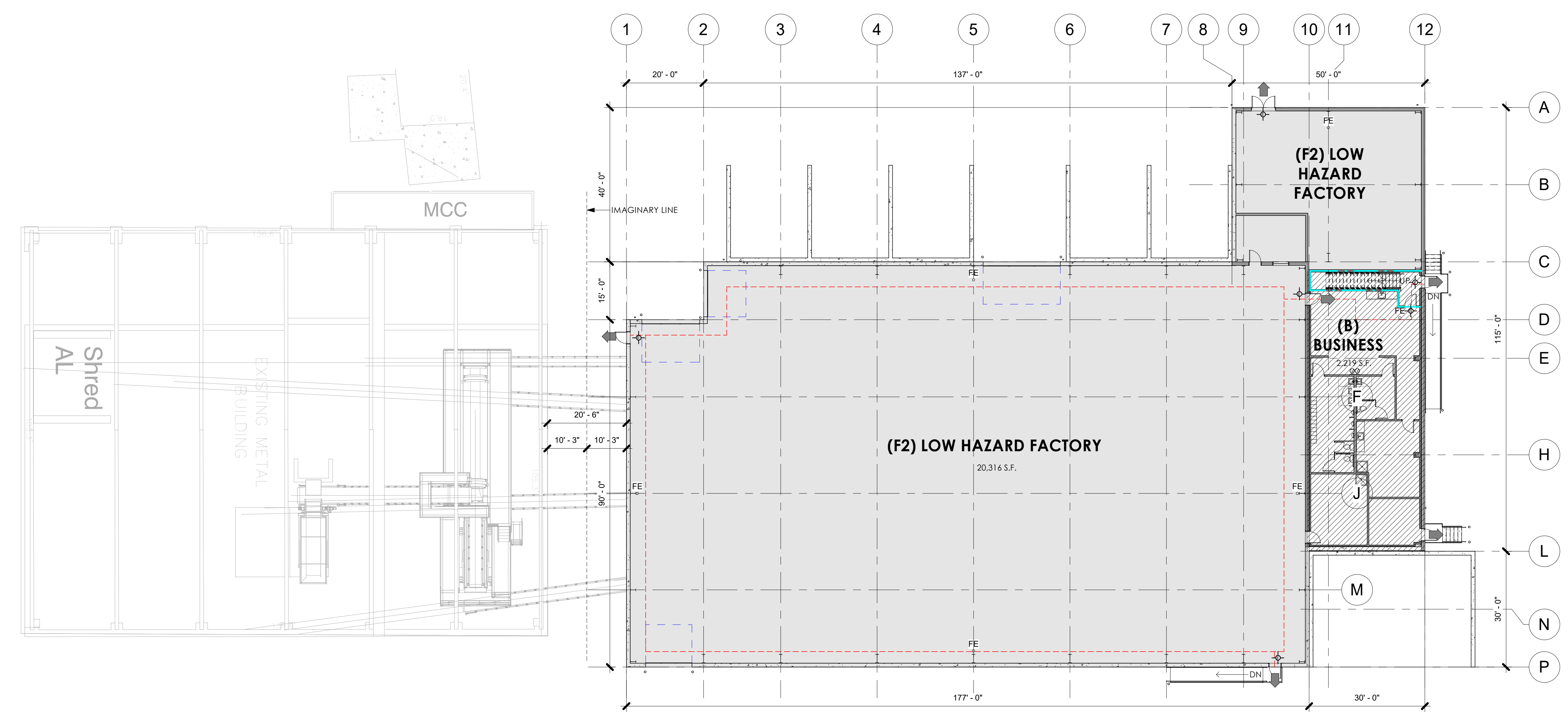
---	EXIT ACCESS
34" →	EXIT WIDTH
⊕	EXIT LIGHT
○ FE	FIRE EXTINGUISHER BRACKET MTD.
□ FEC	FIRE EXTINGUISHER CABINET

RATED PARTITION LEGEND

---	1 HOUR RATED FIRE BARRIER WALL
---	2 HOUR RATED FIRE WALL
---	3 HOUR RATED FIRE WALL



2 MEZZANINE FLOOR
1/16" = 1'-0"

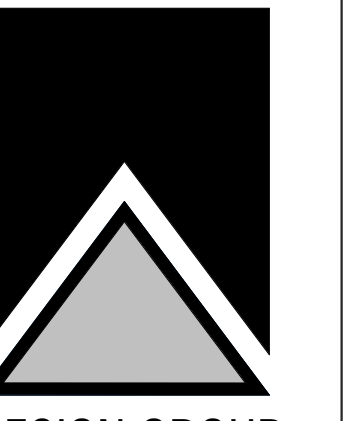


1 FIRST FLOOR
1/16" = 1'-0"

TRUE NORTH
PLAN NORTH
APPLICABLE TO ALL PLAN VIEWS

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

A0.1

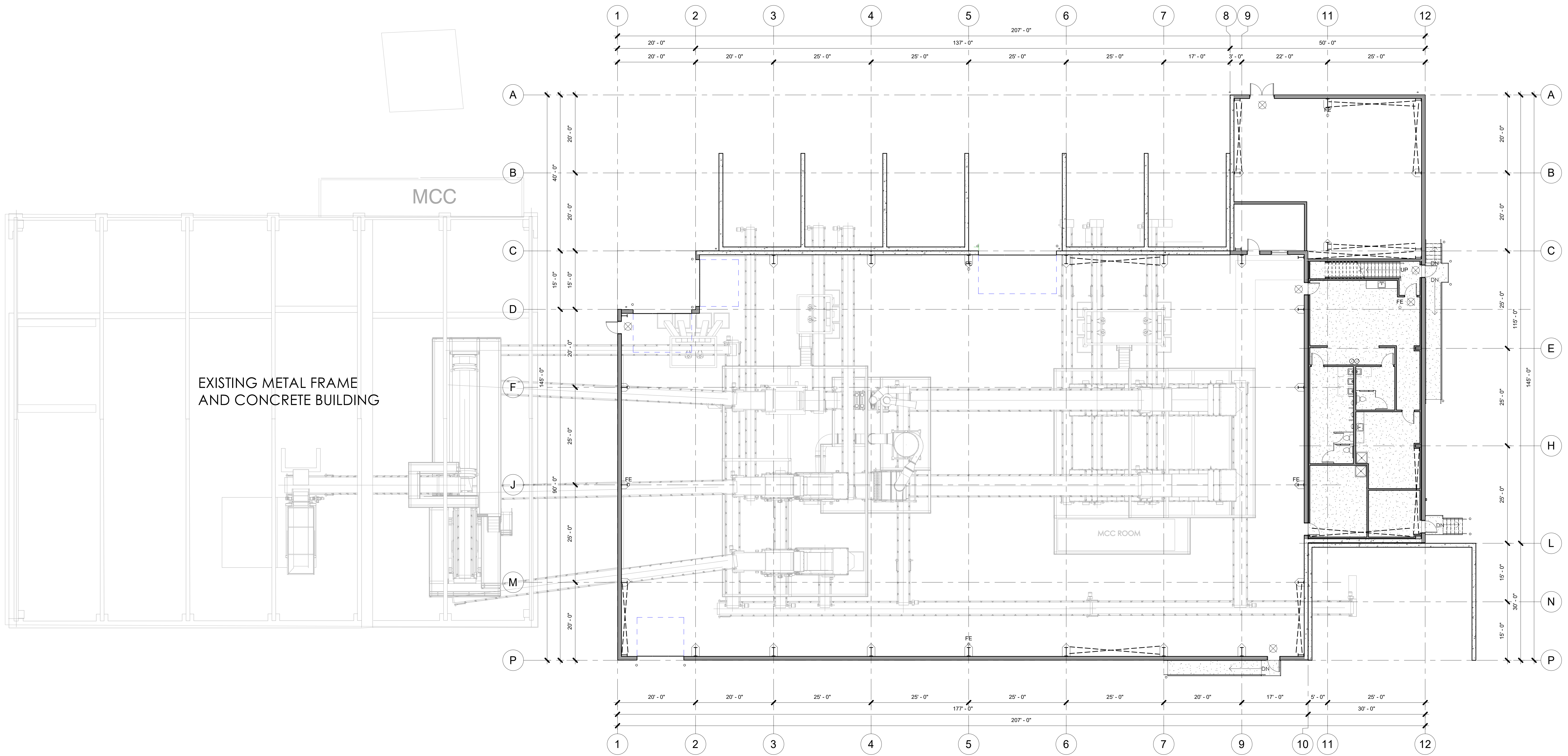


OVERALL FLOOR PLAN

SHEET TITLE

PROPOSED NEW BUILDING FOR:

ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN



EXISTING METAL FRAME
AND CONCRETE BUILDING

MCC

MCC ROOM

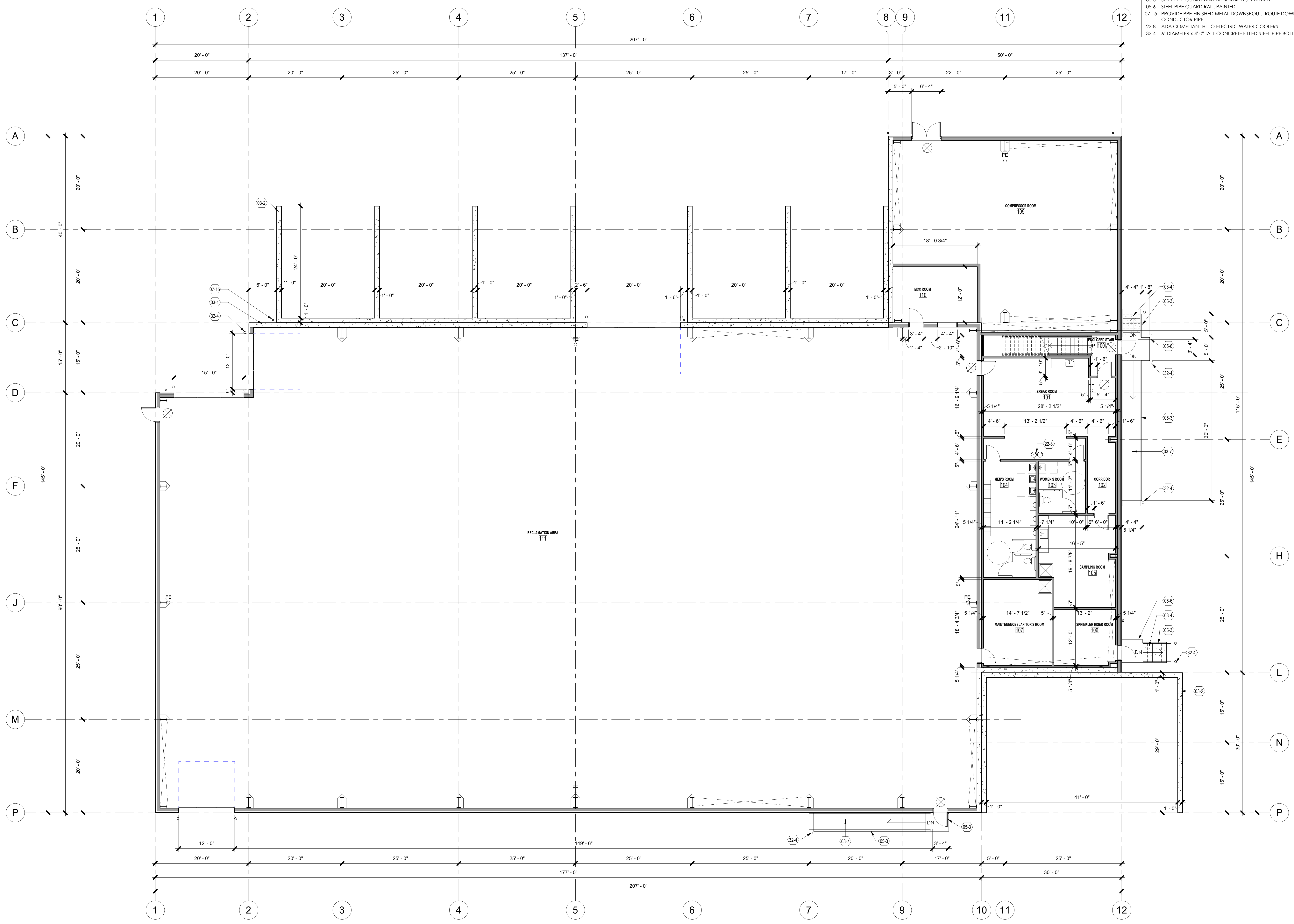
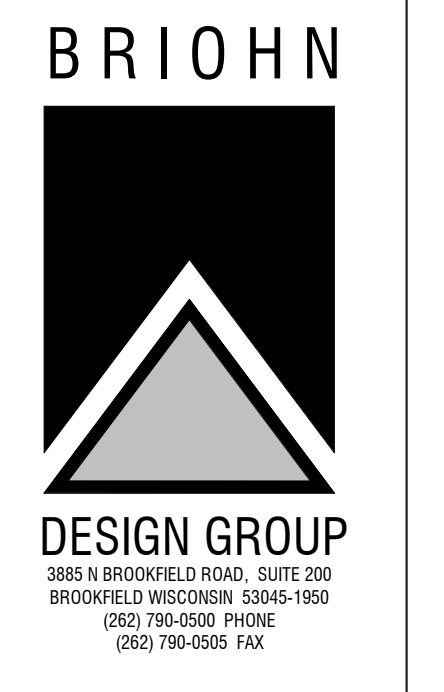
1 OVERALL FLOOR PLAN
3/32" = 1'-0"

TRUE NORTH
PLAN NORTH
APPLICABLE TO ALL PLAN VIEWS

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

A1.0

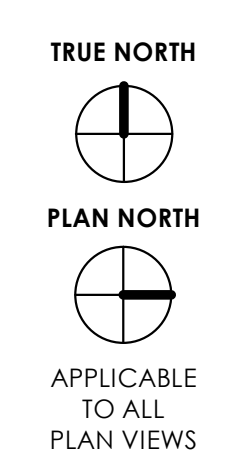
KEYNOTE LEGEND	
VALUE	FLOOR PLAN CODED NOTES
03-1	1 1/2" THICK CONCRETE WAINSCOT WALL, PAINTED
03-2	1 1/2" THICK CONCRETE CONTAINMENT WALLS, PAINTED
03-4	POURED CONCRETE STAIRS
03-7	POURED CONCRETE RAMP
05-3	STEEL PIPE GUARD AND HANDRAILING, PAINTED.
05-6	STEEL PIPE GUARD RAIL, PAINTED.
07-15	PROVIDE PRE-FINISHED METAL DOWNSPOUT. ROUTE DOWN FACE OF WALL TO VERTICAL CONDUCTOR PIPE.
22-8	ADA COMPLIANT HILO ELECTRIC WATER COOLERS.
32-4	6" DIAMETER x 4'-0" TALL CONCRETE FILLED STEEL PIPE BOLLARD(S), PAINTED SAFETY YELLOW



NEW FLOOR PLAN

PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN

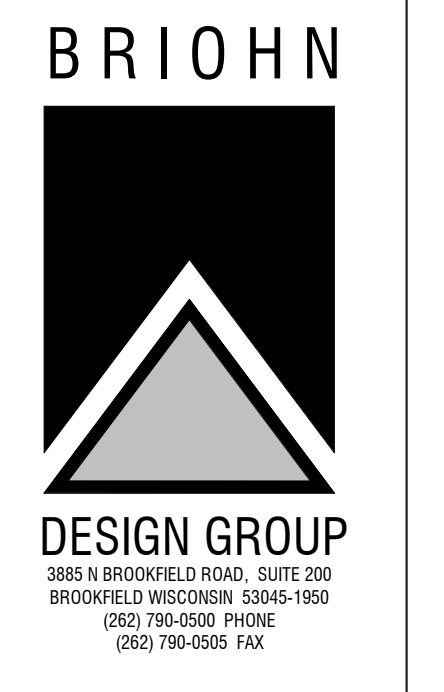
1 OVERALL FLOOR PLAN
1/8" = 1'-0"



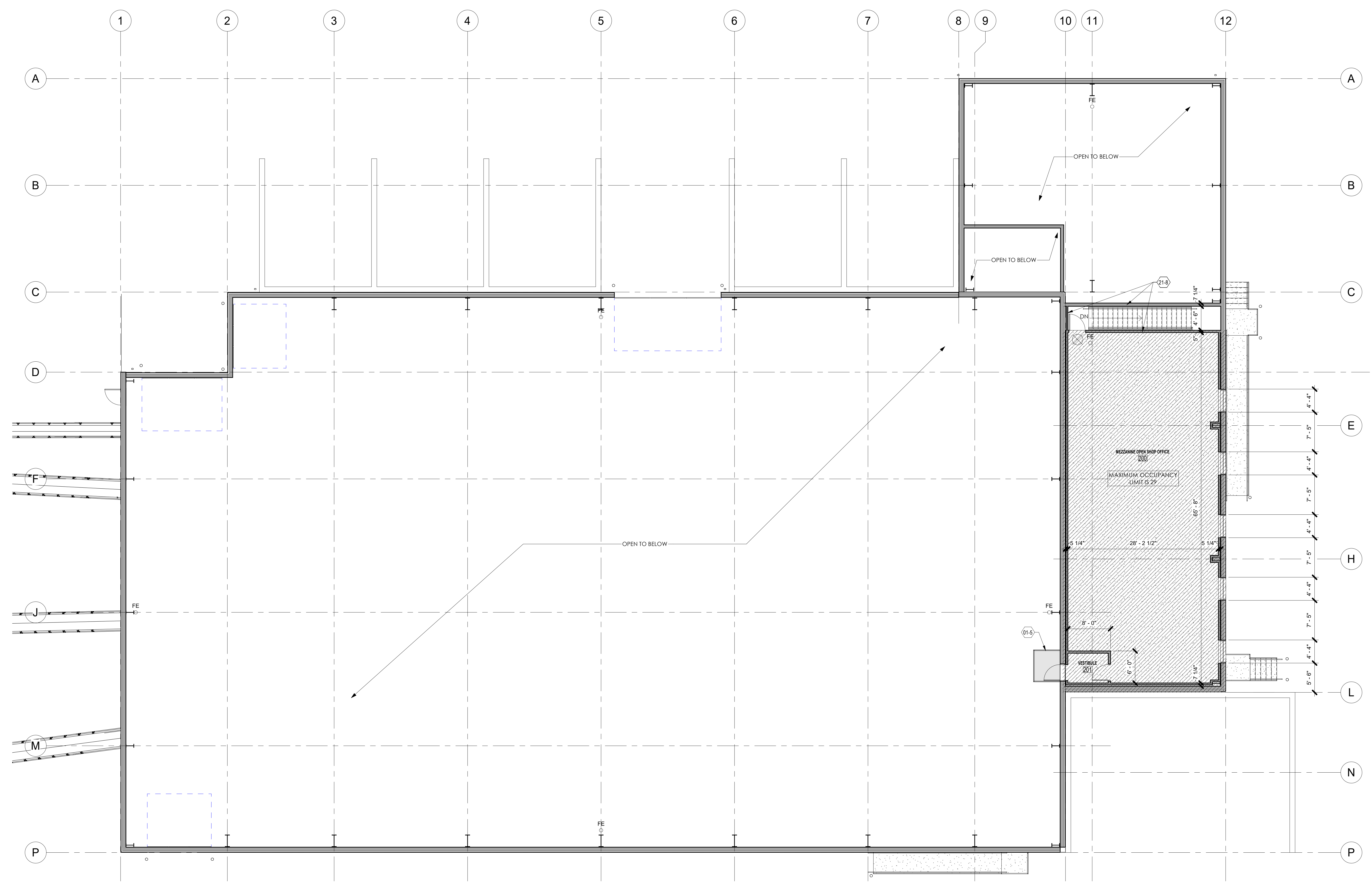
JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

A1.1

KEYNOTE LEGEND	
FLOOR PLAN CODED NOTES	
VALUE	
01-5	PROVIDE STEEL GRATE LANDING FOR PLATFORM WITH SUPPORT COLUMNS - INCLUDE 42" HIGH GUARD RAIL PER OSHA AND IBC.
21-8	1 HOUR RATED FIRE BARRIER DRYWALL PARTITION WALLS FOR STAIR ENCLOSURE.

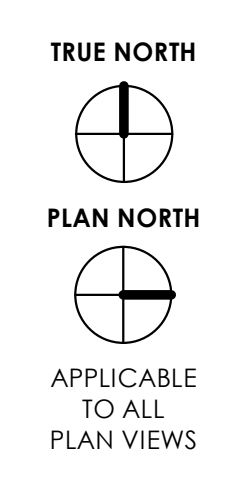


SHEET TITLE
MEZZANINE FLOOR PLAN



1 MEZZANINE FLOOR PLAN
1/8" = 1'-0"

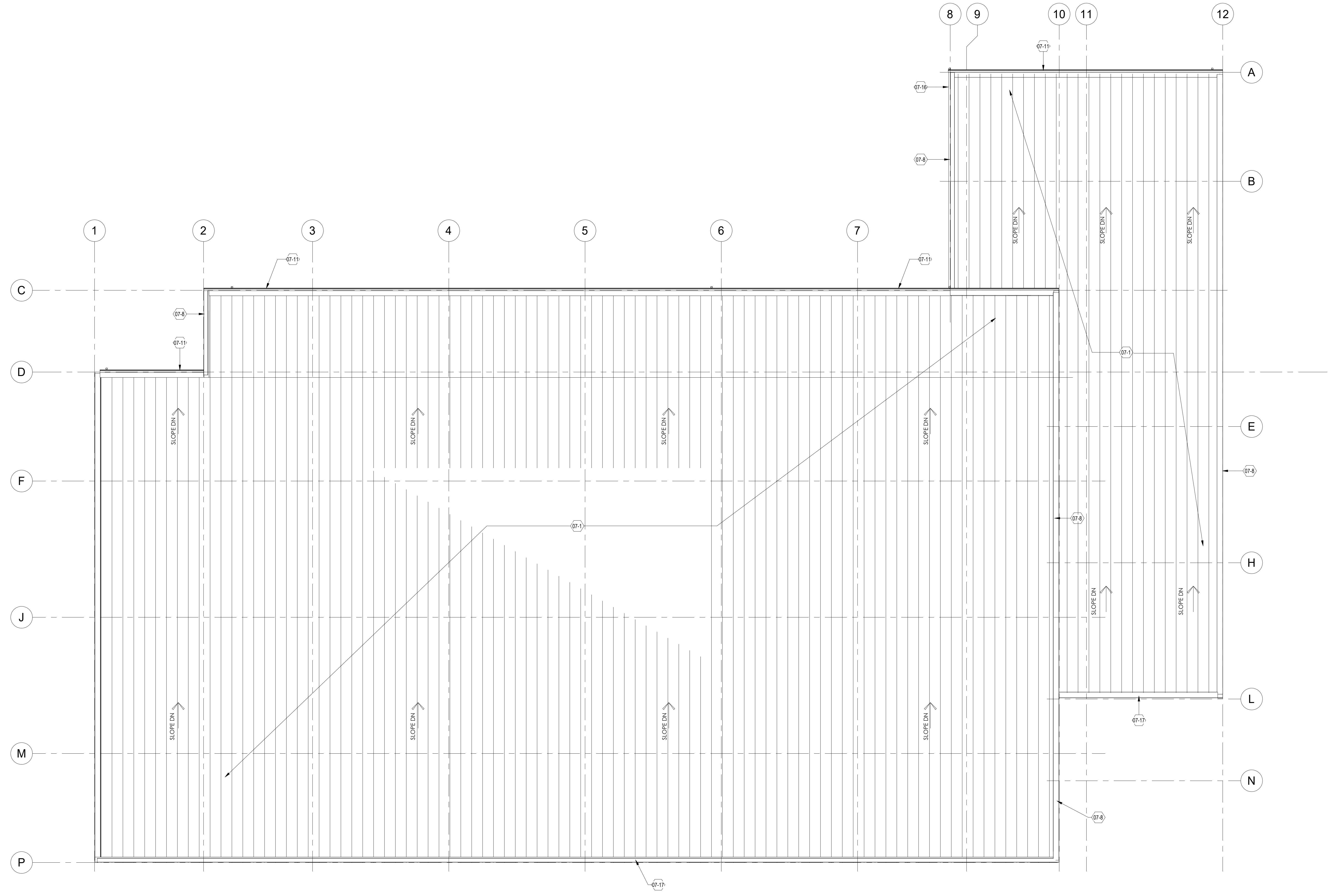
PROPOSED NEW BUILDING FOR:
 ALTER TRADING
 1640 WEST BRUCE STREET
 MILWAUKEE, WISCONSIN



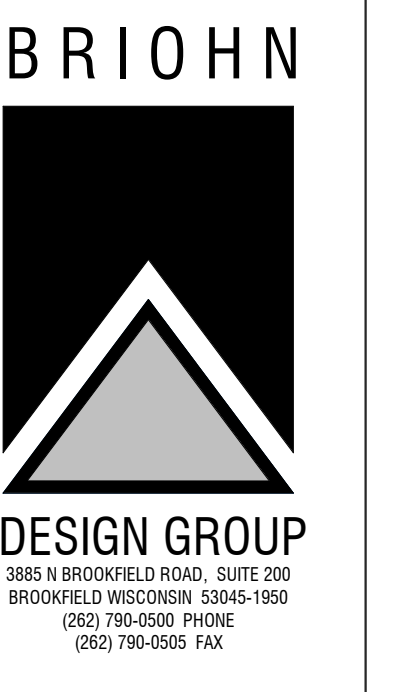
JOB: 3149
 DRAWN: CK/CJR
 CHECKED: DF
 DATE: 04-16-2019
 SHEET:

A1.2

KEYNOTE LEGEND	
VALUE	FLOOR PLAN CODED NOTES
07-1	PRE-FINISHED METAL STANDING SEAM / IMP INSULATED PANEL ROOF
07-8	PRE-FINISHED METAL RAKE TRIM.
07-11	PRE-FINISHED METAL GUTTER SIZED TO MEET REQUIRED CAPACITY FOR ROOF DRAINAGE.
07-16	PRE-FINISHED METAL DOWNSPOUT RUN HORIZONTALLY SLOPED AS REQUIRED BY CODE TO CONNECTING VERTICAL DOWNSPOUT. ROUTE HORIZONTAL DOWN ALONG FACE OF WALL.
07-17	PRE-FINISHED TRANSITION FLASHING (ROOF TO WALL)



1 NEW ROOF PLAN
1/8" = 1'-0"



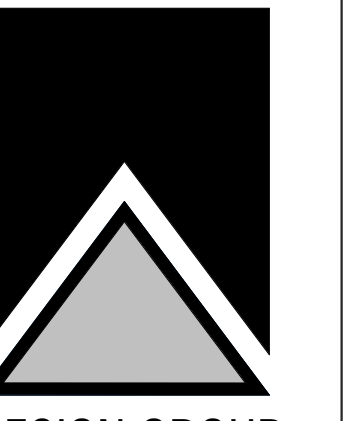
NEW ROOF PLAN

PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN

TRUE NORTH
PLAN NORTH
APPLICABLE TO ALL PLAN VIEWS

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

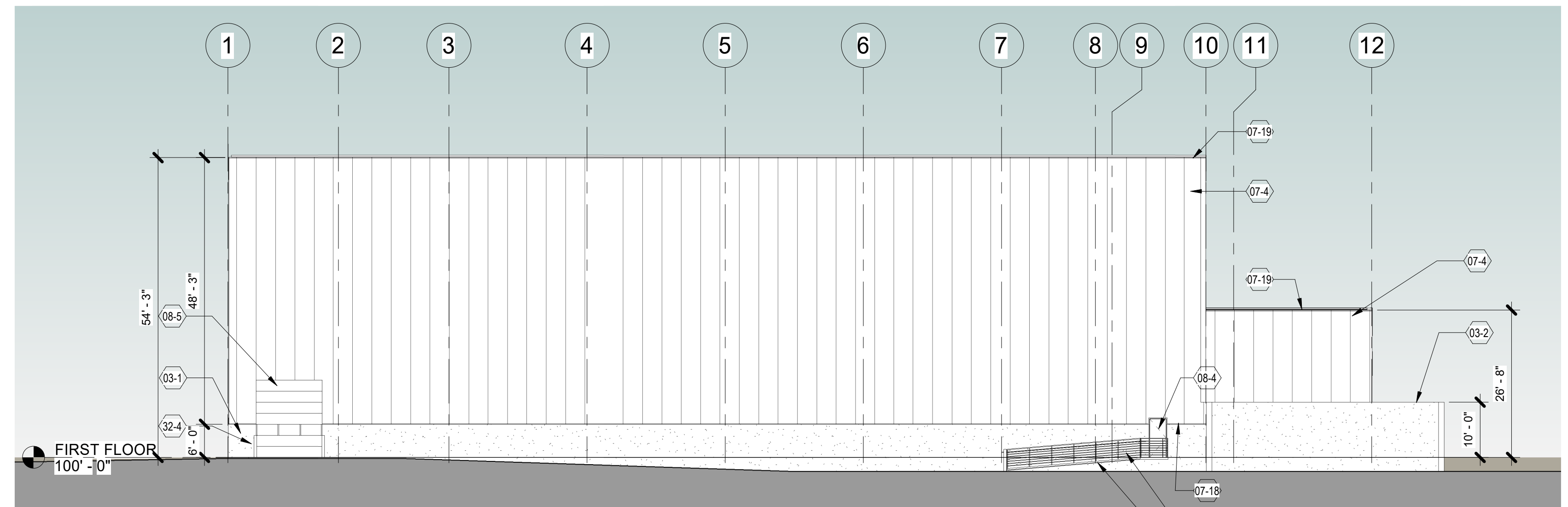
A4.1



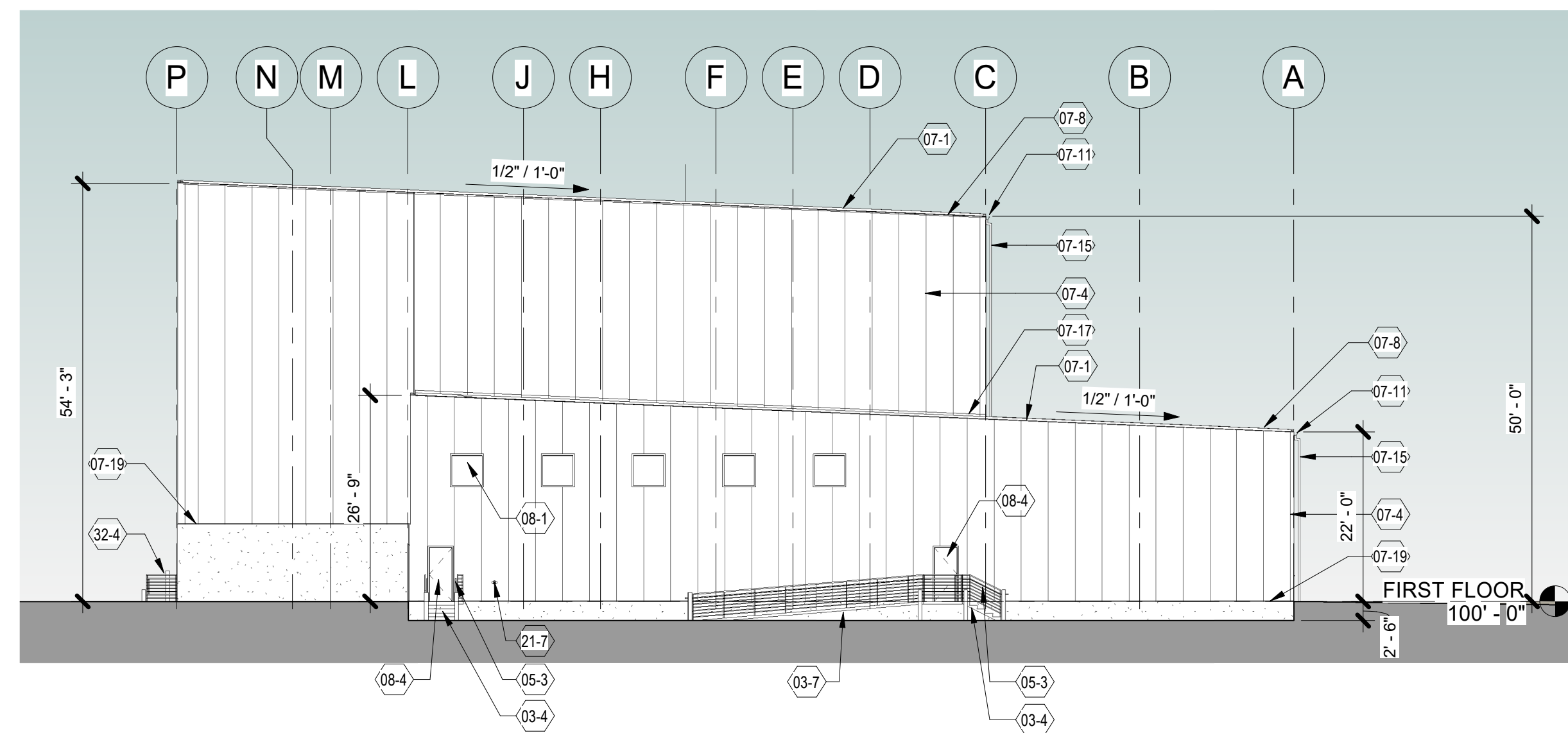
EXTERIOR ELEVATIONS

SHEET TITLE

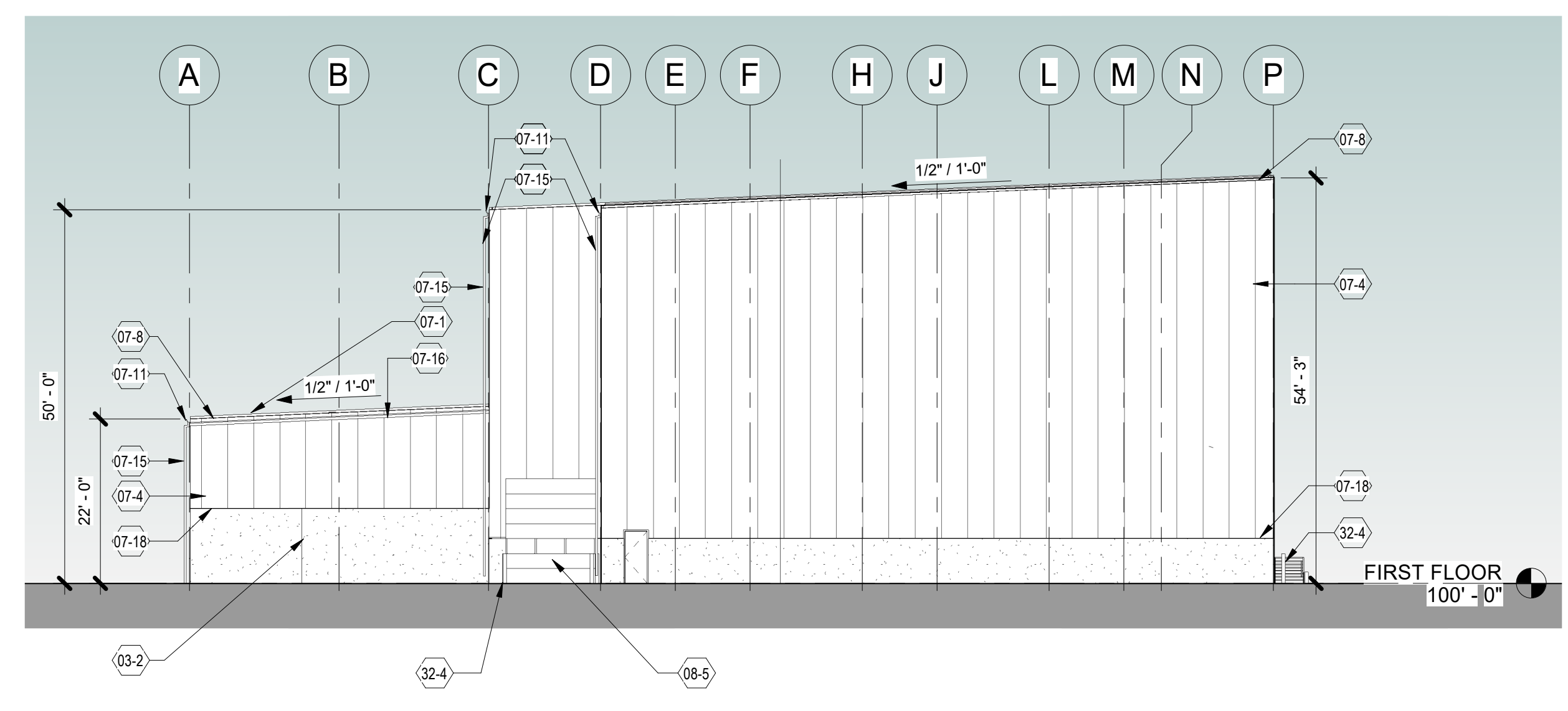
PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN



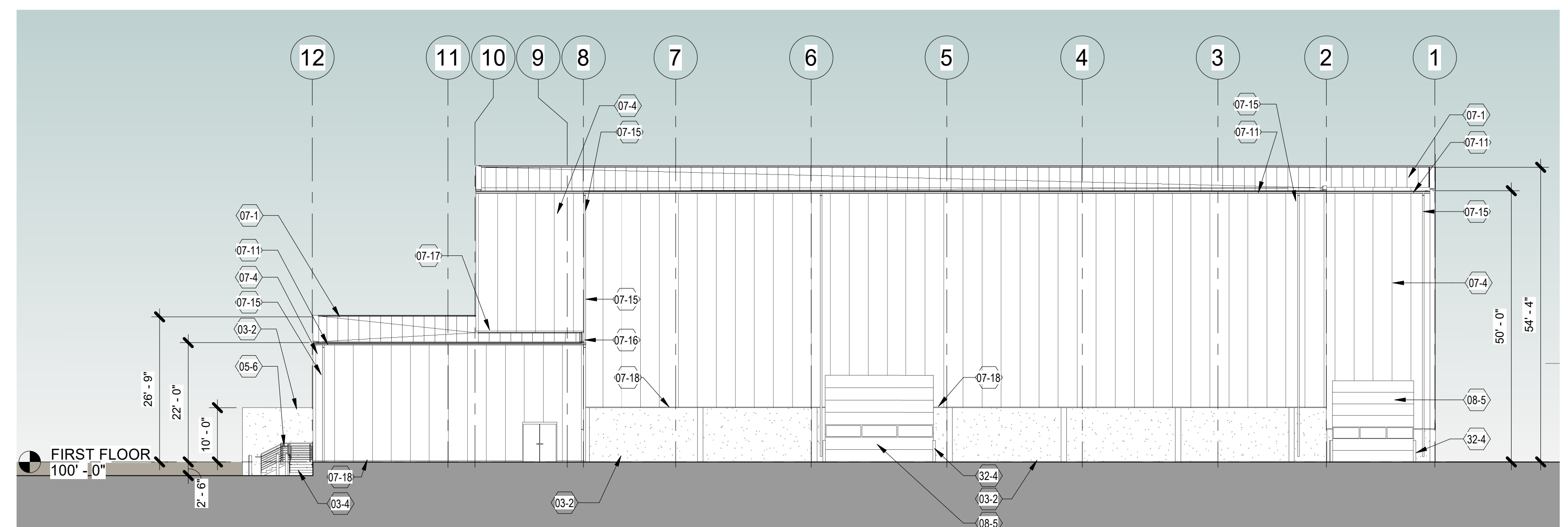
4 EAST ELEVATION
1/16" = 1'-0"



3 NORTH ELEVATION
1/16" = 1'-0"



2 SOUTH ELEVATION
1/16" = 1'-0"



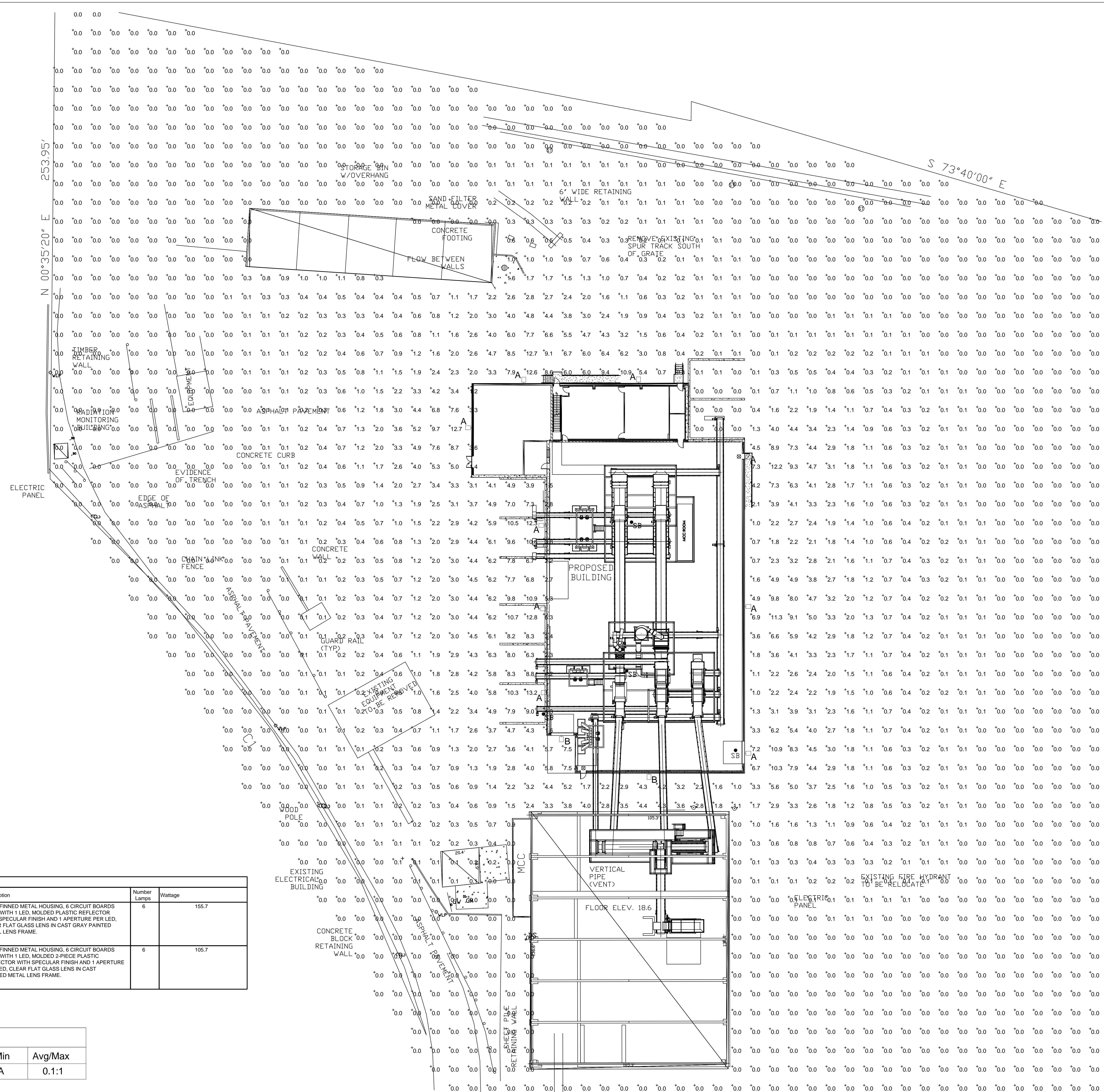
1 WEST ELEVATION
1/16" = 1'-0"

KEYNOTE LEGEND

VALUE	FLOOR PLAN CODED NOTES
03-1	12" THICK CONCRETE WAINSCOT WALL, PAINTED
03-2	12" THICK CONCRETE CONTAINMENT WALLS, PAINTED
03-4	POURED CONCRETE STAIRS
03-7	POURED CONCRETE RAMP
05-3	STEEL PIPE GUARD AND HANDRAILING, PAINTED.
05-6	STEEL PIPE GUARD RAIL, PAINTED.
07-1	PRE-FINISHED METAL STANDING SEAM / IMP INSULATED PANEL ROOF
07-4	3" METAL SANDWICH PANEL, EXTERIOR FACING: HARD AGGREGATED FIBER-REINFORCED POLYMER COATING G-90 GALVANIZED OR AZ-50 ALUMINIUM-ZINC COATED STEEL IN 22 GA. FORM CORE: FOAMED-IN-PLACE NON-CFC & ZERO ODP POLYURETHANE, FAM CLASS 1 APPROVAL, INTERIOR FACING: LIGHT MESA WAVE PATTERN, NOMINAL 1/16" DEEP G-90 GALVANIZED OR AZ-50 ALUMINIUM-ZINC COATED STEEL IN 26, 24 AND 22 GA.
07-8	PRE-FINISHED METAL RAKE TRIM.
07-11	PRE-FINISHED METAL GUTTER SIZED TO MEET REQUIRED CAPACITY FOR ROOF DRAINAGE.
07-15	PROVIDE PRE-FINISHED METAL DOWNSPOUT, ROUTE DOWN FACE OF WALL TO VERTICAL CONDUCTOR PIPE.
07-16	PRE-FINISHED METAL DOWNSPOUT RUN HORIZONTALLY SLOPED AS REQUIRED BY CODE TO CONNECTING VERTICAL DOWNSPOUT, ROUTE HORIZONTAL DOWN ALONG FACE OF WALL.
07-17	PRE-FINISHED TRANSITION FLASHING (ROOF TO WALL)
07-18	PRE-FINISHED METAL BASE TRIM FLASHING
07-19	PRE-FINISHED METAL EAVE FLASHING
08-1	4'-0" X 4'-0" THERMALLY BROKEN CLEAR ANODIZED ALUMINUM FIXED FRAMED STOREFRONT WINDOW SYSTEM W/1" INSULATED LOW-E GLASS
08-4	PAINTED HOLLOW METAL SERVICE DOOR AND FRAME
08-5	INSULATED OH DOOR, FACTORY FINISHED WITH VISION WINDOWS.
21-7	FIRE DEPARTMENT CONNECTION AND ALARM - REFER FLOOR PLAN.
32-4	6" DIAMETER x 4'-0" TALL CONCRETE FILLED STEEL PIPE BOLLARD(S), PAINTED SAFETY YELLOW

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

A5.1



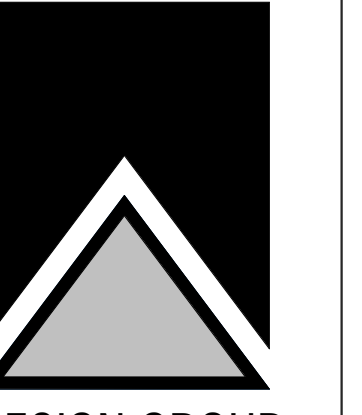
Luminaire Schedule						
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Wattage
☐	A	9	RAB LIGHTING, INC.	WPLED4T150 (TYPE IV)	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	155.7
					Building Mounted at 22'	
☐	B	2	RAB LIGHTING, INC.	WPLED4T105 (TYPE IV)	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED 2-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST PAINTED METAL LENS FRAME.	105.7
					Building Mounted at 22'	

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Calc Zone #1	+	0.8 fc	13.2 fc	0.0 fc	N/A	N/A	0.1:1

Exterior Lighting


DATE:
4-16-19

REVISIONS:



WPLED4T150

RAB Outdoor



Color: Bronze Weight: 34.8 lbs

Project: Alter Trading		Type: A	
Prepared By: HFR electric inc.		Date: 4-16-19	
Driver Info		LED Info	
Type	Constant Current	Watts	150W
120V	1.31A	Color Temp	5000K (Cool)
208V	0.65A	Color Accuracy	71 CRI
240V	0.58A	L70 Lf/Respn	100,000
277V	0.60A	Lumens	18,464
Input Watts	155.8W	Efficacy	118.5 LPW

Technical Specifications

Listings:
Suitable for wet locations

DLC Listed:
This product is on the Design Lights Consortium (DLC) Qualified Product List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000792

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

LED Characteristics

Lifespan:
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

LEDs:
Multi-chip, high-output, long-life LEDs

Color Consistency:
7-step MacAdam Ellipse binning to achieve consistent future-to-future color

Color Stability:
LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period

Color Uniformity:
RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377, 2017.

Construction

IES Classification:
The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semi-circular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

IP Rating:
Ingress Protection rating of IP66 for dust and water

Maximum Ambient Temperature:
Suitable for use in 40°C (104°F)

Cold Weather Starting:
Minimum starting temperature is -40°C (-40°F)

Thermal Management:
Superior thermal management with external "Air-Flow" fins

Housing:
Die-cast aluminum housing, lens frame and mounting arm

Mounting:
Heavy-duty mounting arm with 1/2" ring seal & stainless steel screws

Reflector:
Specular vacuum-metalized polycarbonate

Gaskets:
High-temperature silicone gaskets

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

WPLED4T150

RAB Outdoor

Technical Specifications (continued)

Other

Warranty:
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at www.rablighting.com/legal/warranty

Patents:
The design of WPLED150 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

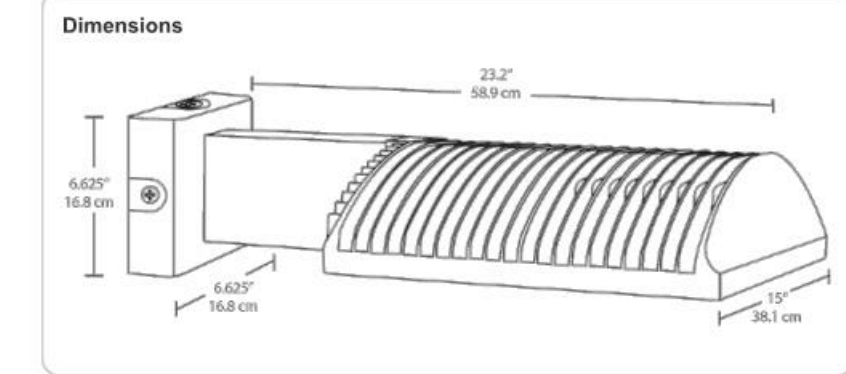
Optical

BUG Rating:
B1 U0 G3

Electrical

Drivers:
One Driver, Constant Current, Class 2, 2100mA 100-277V, 50/60Hz, Power Factor 98%

THD:
4.7% at 120V, 13.3% at 277V



Features


High performance LED light engine
Maintains 70% of initial lumens at 100,000-hours
Weatherproof high temperature silicone gaskets
Superior heat sinking with die cast aluminum housing and external fins
Replaces 400W MH
100 up to 277 Volts
5-Year, No-Compromise Warranty

Ordering Matrix

Family	Optics	Wattage	Color Temp	Mounting	Finish	Driver Options	Other Options
WPLED	4T	150	Blank = 500K (Cool)	Blank = Arm Mount	Blank = Bronze	Blank = Standard	Blank = Standard
			Blank = 4000K (Neutral)	Blank = FX = Flat Mount	Blank = 480V	Blank = 120V Photocell	
	3T	105	Blank = 3000K (Warm)	Blank = N = Neutral	Blank = W = White	Blank = 480V Dimming	Blank = 120V Photocell
			Blank = 120V	Blank = 150	Blank = 150V Dimming	Blank = 120V Swivel Photocell	
	2T	R	Blank = 150	Blank = 150V	Blank = 150V Dimming	Blank = 480V Swivel Photocell	Blank = 120V Swivel Photocell
			Blank = 150V	Blank = 150V	Blank = 150V Dimming	Blank = 480V Swivel Photocell	Blank = 120V Swivel Photocell
							Blank = 120V Swivel Photocell Blank = 480V Swivel Photocell Blank = 120V Swivel Photocell Blank = 277V Swivel Photocell Blank = 480V Swivel Photocell Blank = Multi-Level Motion Sensor (20 ft. mt. N.) Blank = Multi-Level Motion Sensor (40 ft. mt. N.) Blank = Lightcloud Controller

WPLED4T105

RAB Outdoor



Color: Bronze Weight: 34.8 lbs

Project: Alter Trading		Type: B	
Prepared By: HFR electric inc.		Date: 4-16-19	
Driver Info		LED Info	
Type	Constant Current	Watts	105W
120V	0.89A	Color Temp	5000K (Cool)
208V	0.58A	Color Accuracy	70 CRI
240V	0.50A	L70 Lf/Respn	100,000
277V	0.44A	Lumens	13,860
Input Watts	109.4W	Efficacy	125 LPW

Technical Specifications

Listings:
Suitable for wet locations

DLC Listed:
This product is on the Design Lights Consortium (DLC) Qualified Product List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000792

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

LED Characteristics

Lifespan:
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

LEDs:
Multi-chip, high-output, long-life LEDs

Color Consistency:
7-step MacAdam Ellipse binning to achieve consistent future-to-future color

Color Stability:
LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period

Color Uniformity:
RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377, 2017.

Construction

IES Classification:
The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semi-circular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

IP Rating:
Ingress Protection rating of IP66 for dust and water

Maximum Ambient Temperature:
Suitable for use in 40°C (104°F)

Cold Weather Starting:
Minimum starting temperature is -40°C (-40°F)

Thermal Management:
Superior thermal management with external "Air-Flow" fins

Housing:
Die-cast aluminum housing, lens frame and mounting arm

Mounting:
Heavy-duty mounting arm with 1/2" ring seal & stainless steel screws

Reflector:
Specular vacuum-metalized polycarbonate

Gaskets:
High-temperature silicone gaskets

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

WPLED4T105

RAB Outdoor

Technical Specifications (continued)

Other

Warranty:
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at www.rablighting.com/legal/warranty

Patents:
The design of WPLED105 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

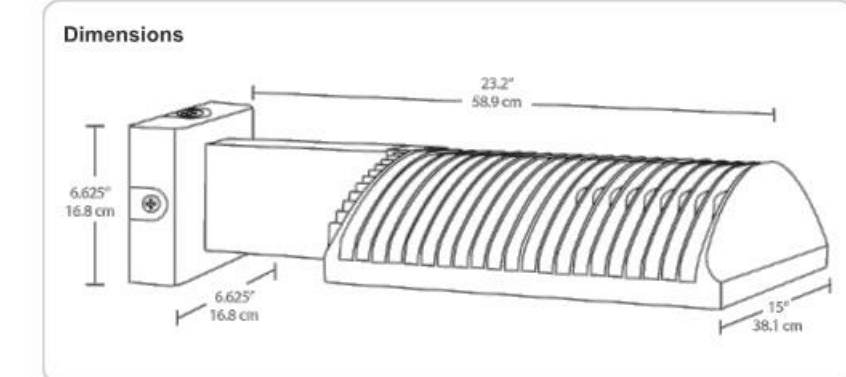
Optical

BUG Rating:
B1 U0 G2

Electrical

Drivers:
Two Drivers, Constant Current, Class 2, 1400mA, 100-277V, 50/60Hz, 0.9A, Power Factor 98%

THD:
7.6% at 120V, 16.5% at 277V



Features

High performance LED light engine
Maintains 70% of initial lumens at 100,000-hours
Weatherproof high temperature silicone gaskets
Superior heat sinking with die cast aluminum housing and external fins
Replaces 400W MH
100 up to 277 Volts
5-Year, No-Compromise Warranty

Ordering Matrix

Family	Optics	Wattage	Color Temp	Mounting	Finish	Driver Options	Other Options
WPLED	4T	105	Blank = 500K (Cool)	Blank = Arm Mount	Blank = Bronze	Blank = Standard	Blank = Standard
			Blank = 4000K (Neutral)	Blank = FX = Flat Mount	Blank = 480V	Blank = 120V Photocell	
	3T	105	Blank = 3000K (Warm)	Blank = N = Neutral	Blank = W = White	Blank = 480V Dimming	Blank = 120V Photocell
			Blank = 120V	Blank = 150	Blank = 150V Dimming	Blank = 120V Swivel Photocell	
	2T	R	Blank = 150	Blank = 150V	Blank = 150V Dimming	Blank = 480V Swivel Photocell	Blank = 120V Swivel Photocell
			Blank = 150V	Blank = 150V	Blank = 150V Dimming	Blank = 480V Swivel Photocell	Blank = 120V Swivel Photocell
							Blank = 120V Swivel Photocell Blank = 480V Swivel Photocell Blank = 120V Swivel Photocell Blank = 277V Swivel Photocell Blank = 480V Swivel Photocell Blank = Multi-Level Motion Sensor (20 ft. mt. N.) Blank = Multi-Level Motion Sensor (40 ft. mt. N.) Blank = Lightcloud Controller

PROPOSED NEW RECLAMATION BUILDING FOR :

ALTER TRADING

1640 WEST BRUCE STREET (FACILITY / CAMPUS ADDRESS)
 WEST BRUCE STREET (PROPOSED NEW BUILDING ADDRESS TO BE DETERMINED)
 MILWAUKEE, WISCONSIN 53204



1 PERSPECTIVE VIEW LOOKING SOUTHEAST
 12"=1'-0"

CODE CALCULATIONS AND ANALYSIS:

OCCUPANCY CALCULATION:

OCCUPANCY F2 FACTORY / NON-FERROUS RECLAMATION FACILITY (PRIMARY)
 100 SQUARE FEET IS MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT
 20,317 SQUARE FEET GROSS / 100 SQUARE FEET PER PERSON = 203 PEOPLE
 OCCUPANCY B BUSINESS (SECONDARY)
 100 SQUARE FEET IS MAXIMUM FLOOR AREA ALLOWANCE PER OCCUPANT
 4,451 SQUARE FEET GROSS / 100 SQUARE FEET PER PERSON = 45 PEOPLE
 TOTAL OCCUPANCY = 248 PEOPLE MAXIMUM CALCULATED

PLUMBING FIXTURE CALCULATION:

BASED ON B BUSINESS OCCUPANCY = 45 PEOPLE
 TOILET FIXTURES (WC) REQUIRED AND PROVIDED ARE AS FOLLOWS:
 B MEN = 0.9 FIXTURE (WC) REQUIRED
 B WOMEN = 0.9 FIXTURE (WC) REQUIRED
 BASED ON F-2 LOW HAZARD FACTORY OCCUPANCY = 203 PEOPLE
 TOILET FIXTURES (WC) REQUIRED AND PROVIDED ARE AS FOLLOWS:
 S-1 MEN = 1.02 FIXTURE (WC) REQUIRED
 S-1 WOMEN = 1.02 FIXTURE (WC) REQUIRED

TOTAL (WC) FIXTURES REQUIRED - MEN = 1.92 FIXTURES 2 PROVIDED 5 PROVIDED
 TOTAL (WC) FIXTURES REQUIRED - WOMEN = 1.92 FIXTURES 2 PROVIDED 2 PROVIDED
 MEN AND WOMEN FIXTURES (WC) REQUIRED 4 TOTAL AND PROVIDED 6 TOTAL OK
 LAVATORY FIXTURES REQUIRED AND PROVIDED ARE AS FOLLOWS:
 B MEN AND WOMEN 45 = 1.13 LAVATORY FIXTURE REQUIRED, 2 PROVIDED 2
 S-1 MEN AND WOMEN 203 = 2.03 LAVATORY FIXTURE REQUIRED, 2 PROVIDED 2

MEN AND WOMEN FIXTURES (LAV) REQUIRED 4 TOTAL AND PROVIDED 4 TOTAL OK

EXIT WIDTH REQUIRED AND EXIT ACCESS TRAVEL DISTANCE:

EXIT WIDTH REQUIRED 248 x .20 = 49.60 INCHES OR 32 INCHES EACH MINIMUM CLEAR X (2) EXITS
 EXIT WIDTH PROVIDED (4) 36" WIDE DOORS X 34" = 132" WIDTH
 TOTAL EXIT WIDTH PROVIDED OF 102" EXCEEDS REQUIRED EXIT WIDTH CALCULATED (49.6")
 TOTAL NUMBER OF EXISTING EXITS PROVIDED (4) EXCEEDS THE NUMBER OF EXITS REQUIRED (2)
 REFER TO SHEET A0.1 FOR ADDITIONAL INFORMATION
 EXIT TRAVEL DISTANCE = LESS THAN 150' IBC TABLE 1017.2

AREA AND HEIGHT LIMITATION CALCULATIONS:

PER IBC TABLE 506.2
 FOR OCCUPANCY GROUP F2 (TYPE 2B CONSTRUCTION (INCLUDES AUTOMATIC SPRINKLER INCREASE) PLUS FRONTAGE INCREASE,
 1 STORY AND 92,000 S.F. ALLOWED FROM TABLE 506.2 WHICH INCLUDES SPRINKLER INCREASE FRONTAGE INCREASE = 43,240 S.F.
 THE ACTUAL SIZE IS 20,316 OR 22,535 S.F.

FRONTAGE INCREASE CALCULATION IBC 506.3:
 F = 503
 P = 704
 W = 30
 503/704 = .714474446
 .714474446 - .25/30/30 = INCREASE RATIO
 .72 - .25/1 = .47 (92,000) = 43,240 S.F.
 AMOUNT OF FRONTAGE INCREASE ALLOWED IS 43,240 S.F. FOR A TOTAL OF 135,240 S.F.
 THE MAXIMUM ALLOWABLE BUILDING AREA IS 92,000 + 43,240 = 135,240 S.F. ACTUAL IS 22,535 S.F.

THE BUILDING IS NOT CLASSIFIED AS AN UNLIMITED AREA BUILDING PER SECTION 507.4

THE BUILDING AREA IS AT OR BELOW THE ALLOWABLE AREA LIMITS AND STORY LIMITS PER TABLE 506.2 WITH AUTOMATIC SPRINKLER INCREASE.

THE BUILDING IS BELOW ALLOWABLE HEIGHT LIMIT OF 55 FEET. THE ACTUAL HEIGHT IS 54'-4" FEET. PER TABLE 504.3 ALLOWABLE NUMBER OF STORIES IS TWO AND THE BUILDING HAS ONLY ONE STORY AND A MEZZANINE LEVEL.

MULTIPLE OCCUPANCIES:

BUILDING DESIGN IS BASED ON SEPARATED OCCUPANCIES PER IBC 508.
 WE PROPOSED TO SEPARATE THE TWO OCCUPANCIES TYPES FROM EACH OTHER AND TWO CREATE TWO BUILDINGS SEPARATED BY FIREWALL TO ALLOW FOR BUILDING AREA LIMITS TO COMPLY.

PER TABLE IBC 508.4 THE REQUIRED BETWEEN B AND H3 OCCUPANCY IS (1) HOUR. HOWEVER PER IBC SECTION 706 FIREWALLS WE ARE REQUIRED TO USE A 3 HOUR FIRE RESISTIVE RATING FOR EITHER B OR H3 OCCUPANCIES. SINCE WE NEED TO CREATE SEPARATED BUILDINGS, WE PROPOSE TO USE A 3 HOUR RATED FIREWALL PER IBC TABLE 706.4. OPENINGS SHALL BE PROTECTED WITH CORRESPONDING 3 HOUR RATED OPENING PROTECTIVES.

CONSTRUCTION CLASSIFICATION REQUIREMENTS:

PER IBC TABLE 601 AND TABLE 602:
 TYPE IIB CONSTRUCTION:
 PRIMARY STRUCTURAL FRAME "0" RATING REQUIRED
 INTERIOR BEARING WALLS "0" RATING REQUIRED
 EXTERIOR BEARING WALLS "0" RATING REQUIRED
 EXTERIOR NON-BEARING WALLS (PER TABLE 602.10 < 30 FEET) "0" RATING REQUIRED
 NON-BEARING WALLS AND PARTITIONS "0" RATING REQUIRED
 FLOOR CONSTRUCTION AND SECONDARY MEMBERS "0" RATING REQUIRED
 ROOF CONSTRUCTION AND SECONDARY MEMBERS "0" RATING REQUIRED

EXTERIOR WALL OPENINGS ALLOWED:

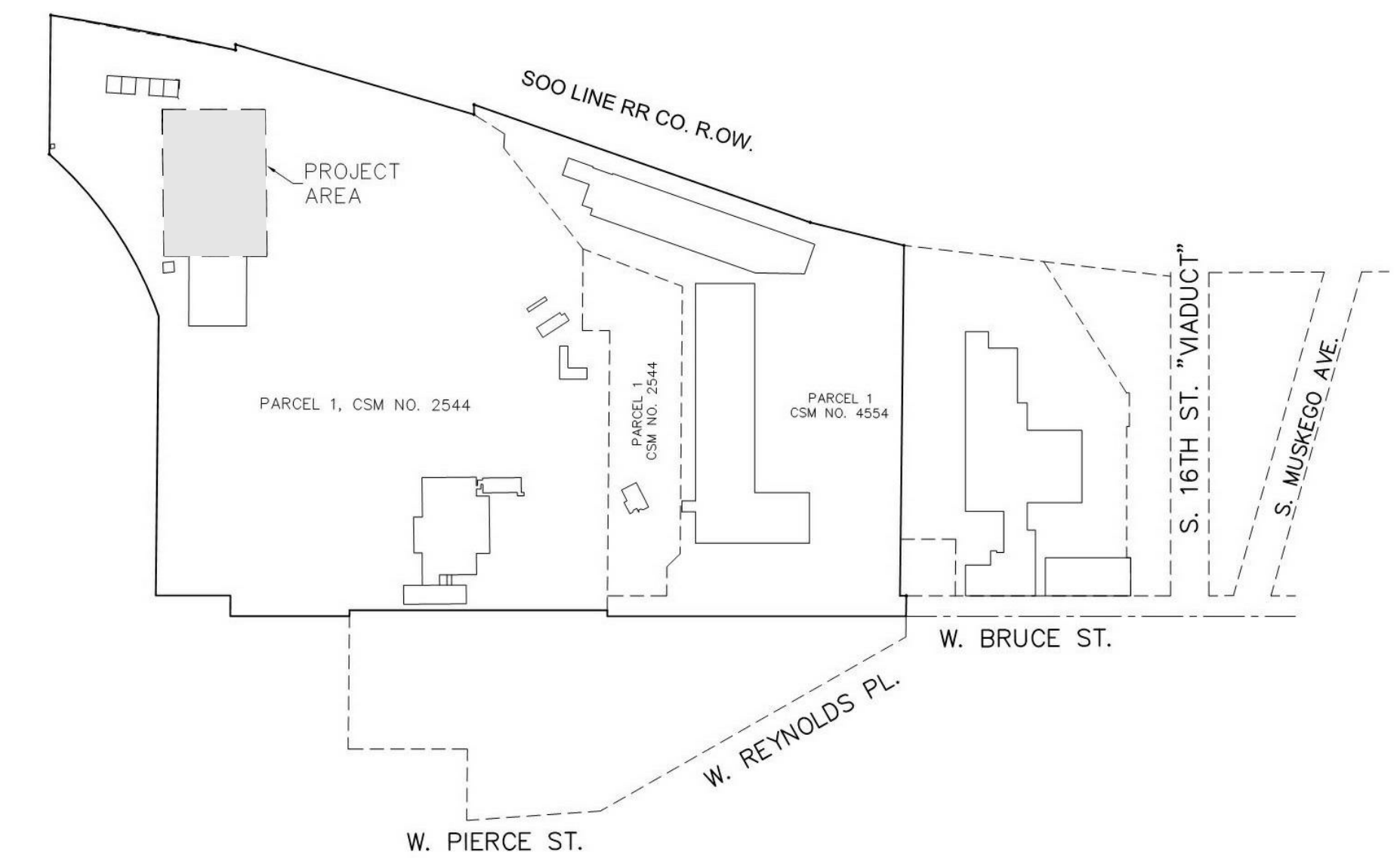
PER IBC TABLE 705.8:
 THE NEW WALLS OF THE PROPOSED ADDITION ARE GREATER THAN 30 FEET AWAY FROM THE PROPERTY LINE OR STREET; THEREFORE, THERE ARE NO RESTRICTIONS ON OPENINGS BOTH PROTECTED AND UNPROTECTED.

BUILDING ENVELOPE REQUIREMENTS:

BUILDING ENVELOPE REQUIREMENTS: PROPOSED TO USE PRESCRIPTIVE METHOD, PER SPS 363.0402 BUILDING ENVELOPE REQUIREMENTS. (1) OPAQUE ASSEMBLIES, SUBSTITUTE 2009 IECC TABLE 502.2 (1) PER SPS 363.5402 BUILDING ENVELOPE REQUIREMENTS. (1) INSULATION AND FENESTRATION REQUIREMENTS BY COMPONENT, REFER TO SHEET AS.1 EXTERIOR ELEVATIONS.

SHEET INDEX

0-GENERAL	
T1.1	TITLE SHEET
1-SPECIFICATIONS	
GS.1	SPECIFICATIONS
GS.2	SPECIFICATIONS
2-SURVEY	
SV1.0	PLAT OF SURVEY
SV1.1	EXISTING CONDITIONS SURVEY
3-CIVIL	
C1.0	SITE PLAN
C2.0	SITE GRADING & UTILITY PLAN
C3.0	EROSION CONTROL PLAN
4-ARCHITECTURAL	
A0.1	CODE PLAN
A1.0	OVERALL FLOOR PLAN
A1.1	NEW FLOOR PLAN
A1.2	MEZZANINE FLOOR PLAN
A4.1	NEW ROOF PLAN
A5.1	EXTERIOR ELEVATIONS
7-ELECTRICAL	
E1	PHOTOMETRICS PLAN
E2	LIGHTING CUT SHEETS



4 VICINITY MAP
 N.T.S.

PLAN COMMISSION SUBMITTAL PLANS
 APRIL 16, 2019

OWNER : ALTER TRADING CORPORATION JAMIE WILSON 700 OFFICE PARKWAY ST. LOUIS, MO 63141 (314) 787-3910 PHONE	GENERAL CONTRACTOR : BRIOHN BUILDING CORPORATION PEYTON PAQUIN, PM 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX	ARCHITECT : BRIOHN DESIGN GROUP LLC DOMENICO FERRANTE, AIA 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX
CIVIL ENGINEER: C.J ENGINEERING CHRISTOPHER A. JACKSON, PE 9205 W. CENTER STREET, SUITE 214 MILWAUKEE, WI 53222 (414) 443-1312 PHONE (414) 940-4450 FAX	STRUCTURAL ENGINEER: BRIOHN DESIGN GROUP LLC KEVIN JANKOWSKI, PE 3885 N. BROOKFIELD RD., SUITE 200 BROOKFIELD, WISCONSIN 53045 (262) 790-0500 PHONE (262) 790-0505 FAX	

PROJECT LOCATION:



STREET MAP
 N.T.S.

PROJECT INFORMATION:

BUILDING CODE:
 2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 362
 2015 INTERNATIONAL EXISTING BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 366
ACCESSIBILITY CODE:
 2015 INTERNATIONAL BUILDING CODE WITH WISCONSIN AMENDMENTS SPS 362
 2009 ICC/ANSI A117.1 ACCESSIBLE AND USABLE BUILDINGS AND FACILITIES
ENERGY CODE:
 2015 IECC INTERNATIONAL ENERGY CONSERVATION CODE WITH WISCONSIN AMENDMENTS SPS 363
MECHANICAL CODE:
 2015 INTERNATIONAL MECHANICAL CODE WITH WISCONSIN AMENDMENTS SPS 364
PLUMBING CODE:
 2014 WISCONSIN PLUMBING CODE SPS 381-387
ELECTRICAL CODE:
 2011 NFPA 70 NATIONAL ELECTRICAL CODE WITH WISCONSIN AMENDMENTS SPS316
FIRE CODE:
 2006 INTERNATIONAL FIRE CODE ADOPTED PER MILWAUKEE CODE OF ORDINANCES (MCO 214-3)

OCCUPANCY: MANUFACTURING FACILITY - PRIMARY
 OFFICE - SECONDARY
CLASS OF CONSTRUCTION: TYPE 2B
SPRINKLER SYSTEM: FULL
FLOOR LEVELS: 1
NUMBER OF STORIES: 1+MEZZANINE

BUILDING AREA:
 RECLAMATION AREA - FIRST FLOOR 20,316 SF
 OFFICE AREA - FIRST FLOOR 2,219 SF
 TOTAL - FOOTPRINT 22,535 SF
 OFFICE AREA - MEZZANINE LEVEL 2,232 SF
 TOTAL - OVERALL 24,767 SF

NOTE:
 ALL MECHANICAL, ELECTRICAL,
 PLUMBING AND FIRE SPRINKLER
 ENGINEERING BY DESIGN-BUILD
 CONTRACTORS

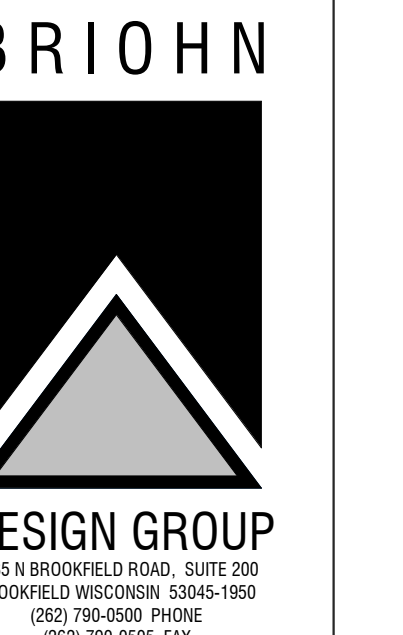
TRUE NORTH

 PLAN NORTH

 APPLICABLE TO ALL PLAN VIEWS

JOB: 3149
 DRAWN: CK/CJR
 CHECKED: DF
 DATE: 04-16-2019
 SHEET:

T1.1



TITLE SHEET

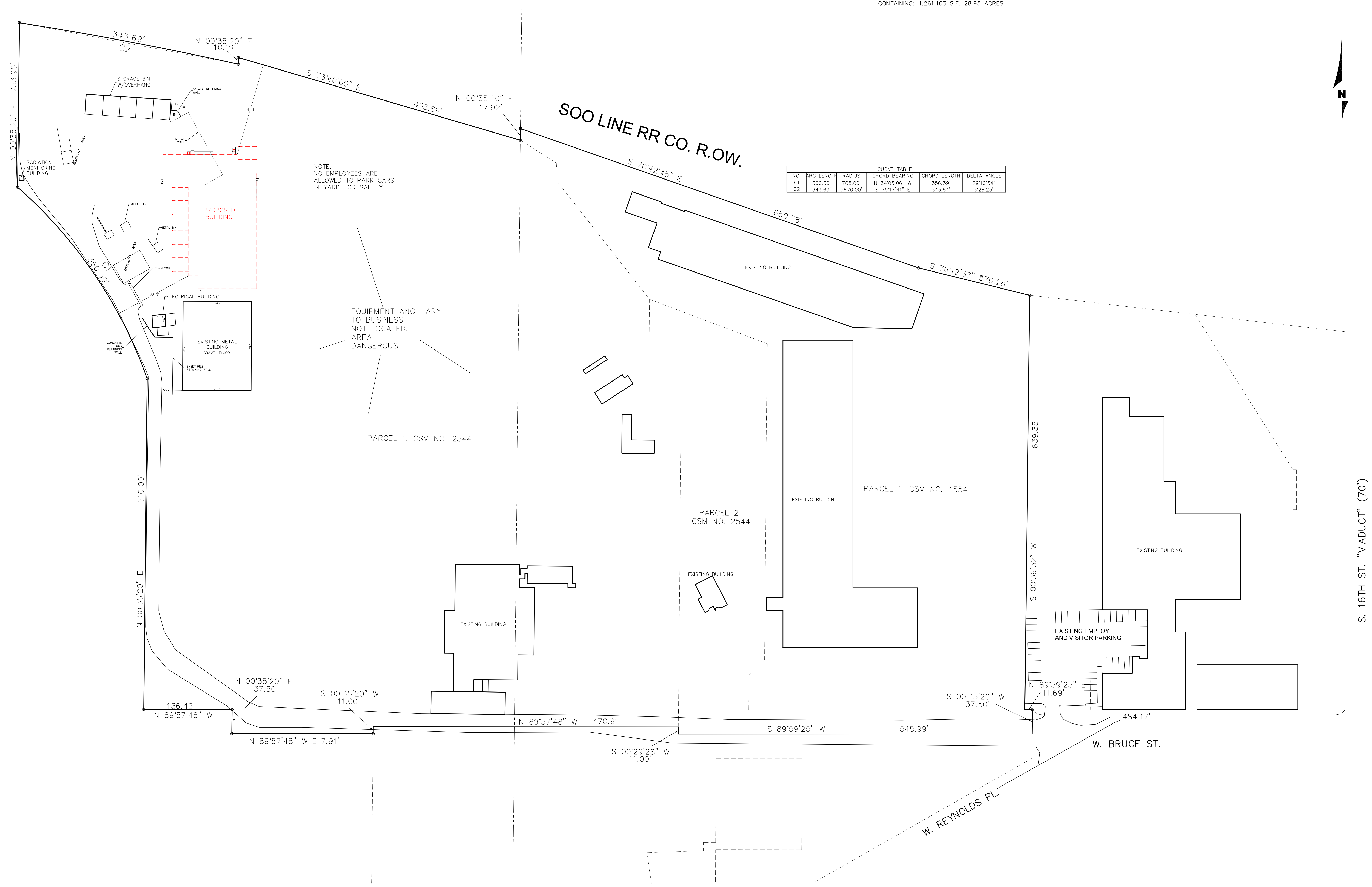
PROPOSED NEW BUILDING FOR:
 ALTER TRADING
 1640 WEST BRUCE STREET
 MILWAUKEE, WISCONSIN

DESCRIPTION

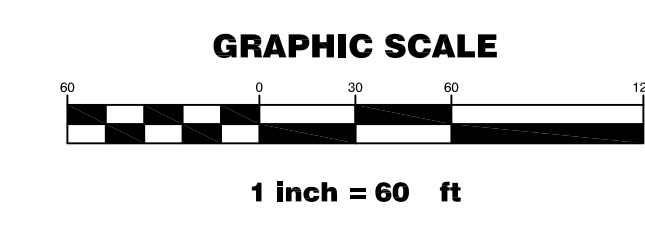
PARCEL 1 AND 2 OF, CERTIFIED SURVEY MAP NO. 2544, BEING PARCEL II OF CERTIFIED SURVEY MAP NO. 2318, PARCEL 1 OF CERTIFIED SURVEY MAP NO. 4554, BEING A REDIVISION OF PARCEL 1 IN CERTIFIED SURVEY MAP 2219, PARCEL 1 IN CERTIFIED SURVEY MAP AND 3643 AND PARCELS 2 AND 3 OF CERTIFIED SURVEY MAP NO. 4114, BEING A PART OF THE NORTHEAST 1/4 AND NORTHWEST 1/4 OF SECTION 31, TOWN 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

CONTAINING: 1,261,103 S.F. 28.95 ACRES

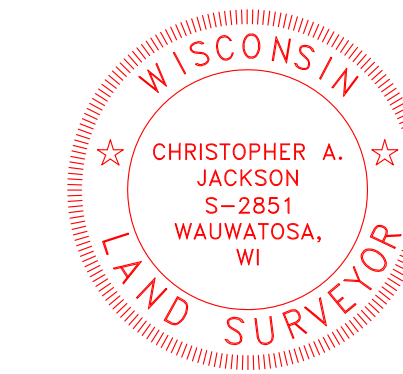
CURVE TABLE					
NO.	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	360.30'	705.00'	N 34°05'06" W	356.39'	29°16'54"
C2	343.69'	5670.00'	S 79°17'41" E	343.64'	3°28'23"



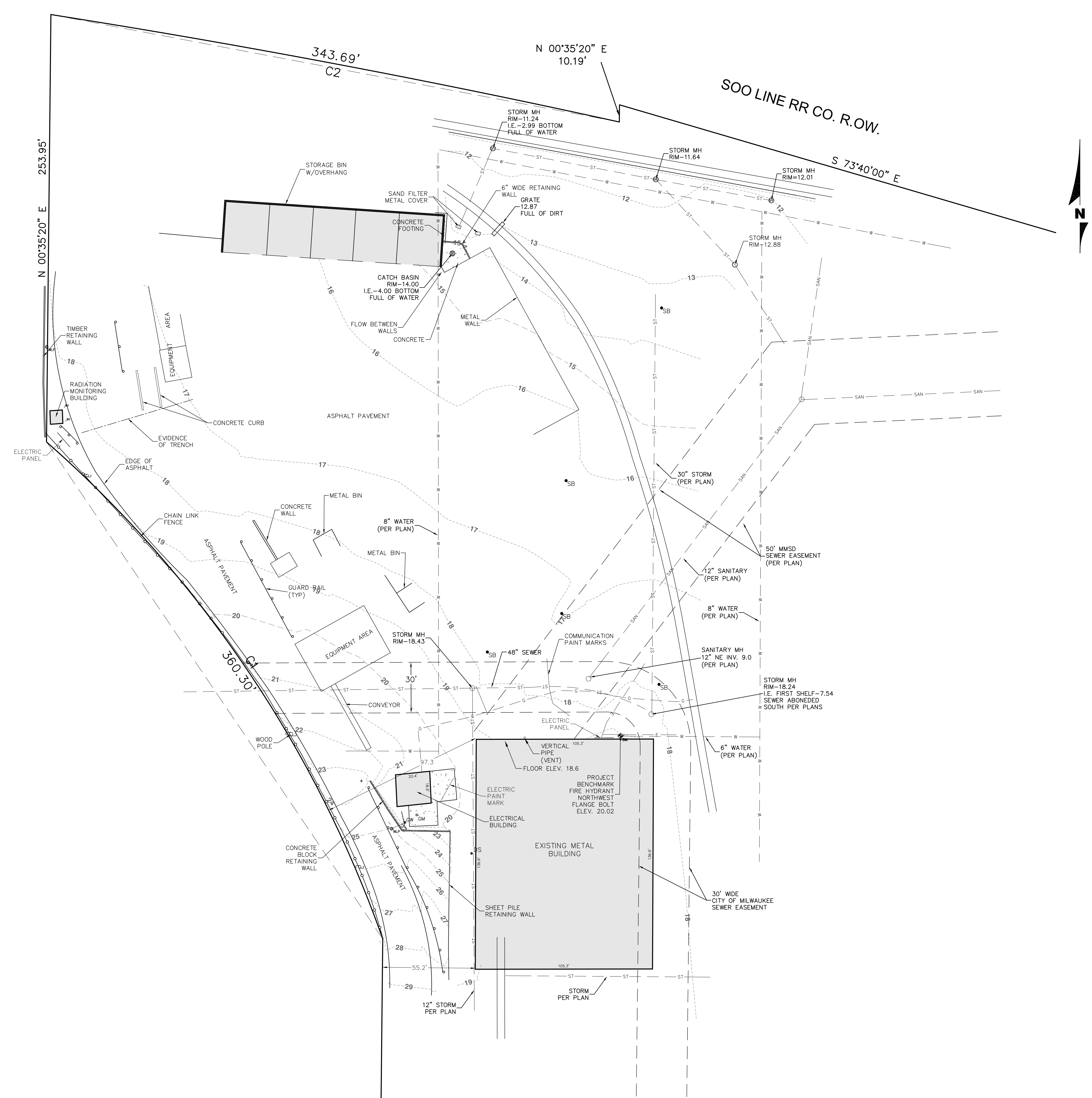
ALTER TRADING
 1800 W. BRUCE STREET MILWAUKEE, WI



CJE NO.: 1908R2
 APRIL 15, 2019



C. Jackson



DESCRIPTION
 PART OF PARCEL 1, CERTIFIED SURVEY MAP NO. 2544, BEING PARCEL II OF CERTIFIED SURVEY MAP NO. 2318, BEING A PART OF THE NORTHEAST 1/4 AND NORTHWEST 1/4 OF SECTION 31, TOWN 7 NORTH, RANGE 22 EAST, IN THE CITY OF MILWAUKEE, MILWAUKEE COUNTY, WISCONSIN.

- SURVEYOR'S NOTES**
- 1) BASIS OF BEARINGS - PER CERTIFIED SURVEY MAP NO. 254
 - 2) UNDERGROUND SEWER AND UTILITY INFORMATION AS SHOWN IS OBTAINED FROM THE RECORDS OF MUNICIPALITY AND LOCAL UTILITY COMPANIES. THE ACCURACY OF WHICH CAN NOT BE GUARANTEED OR CERTIFIED TO.
 - 3) THE LOCATIONS OF EXISTING UTILITY INSTALLATIONS AS SHOWN ON THIS SURVEY ARE APPROXIMATE. THERE MAY BE OTHER UNDERGROUND UTILITY INSTALLATIONS WITHIN THE PROJECT AREA THAT ARE NOT SHOWN.
 - 4) UTILITY INFORMATION FROM BOTH FIELD LOCATION AND UTILITY PLANS OBTAINED.
 - 5) SEE SHEET SV1.0 FOR ENTIRE PARCEL.

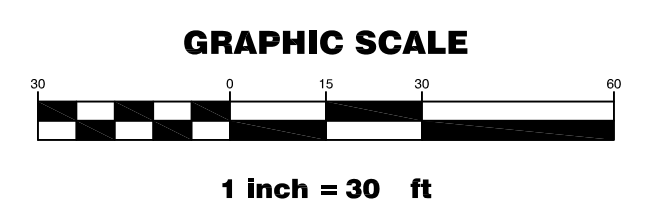
LEGEND

BASKETBALL HOOP (BH)	LIGHT POLE	ABBREVIATIONS	LINE TYPES (CONT.)
BENCHMARK (BM)	MAIL BOX (MB)	F/L FLOW LINE	METAL FENCE
BOLLARD (BO)	MANHOLE (MH)	IE INVERT ELEVATION	WOOD FENCE
BUSH, SHRUB, ETC.	MONITORING WELL (MW)	IPD FOUND	WOOD TENCE
CATCH BASIN ROUND (CBT)	MONITORING WELL (MW)	MLP METAL LIGHT POLE	GUARD RAIL
CATCH BASIN SQUARE (CBS)	SOIL BORING (SB)	MLP CONCRETE LIGHT POLE	BURIED CABLE TV
CLEAN OUT (CO)	TRAFFIC LIGHT (TL)	MS METAL SIGN	BURIED COMMUNICATIONS
CURB INLET (CI)	DECIDUOUS TREE (TR)	MS METAL SIGN	BURIED SEWER
EVERGREEN TREE (ET)	UTILITY MARKER	DM GAS METER	BURIED ELECTRIC
FIRE HYDRANT (HY)	UTILITY METER	EM ELECTRIC METER	BURIED FIBER OPTIC
FLAG POLE (FP)	UTILITY PEDESTAL	EPZ FIRST FLOOR ELEVATION	BURIED GAS SERVICE
GUY WIRE (GW)	UTILITY POLE (UP)	FD FIBER OPTIC CABLE	OVERHEAD UTILITY LINES
HANDICAP	UTILITY VALVE	WV WATER VALVE	SANITARY SEWER
IRON PIPE (I.P.)	WATER WELL	YL YARD LIGHT	STORM SEWER
		LINE TYPES	BURIED TELEPHONE
			WATER MAIN / SERVICE

DIGGERS HOTLINE
 CALL 800.675.4022
 811 or 1-800-242-8511 / MILW. AREA 268-1181
 WI STATUTE 182.0175(1074) REQUIRES MIN. 3 WORK DAYS NOTICE BEFORE YOU EXCAVATE.

CURVE TABLE

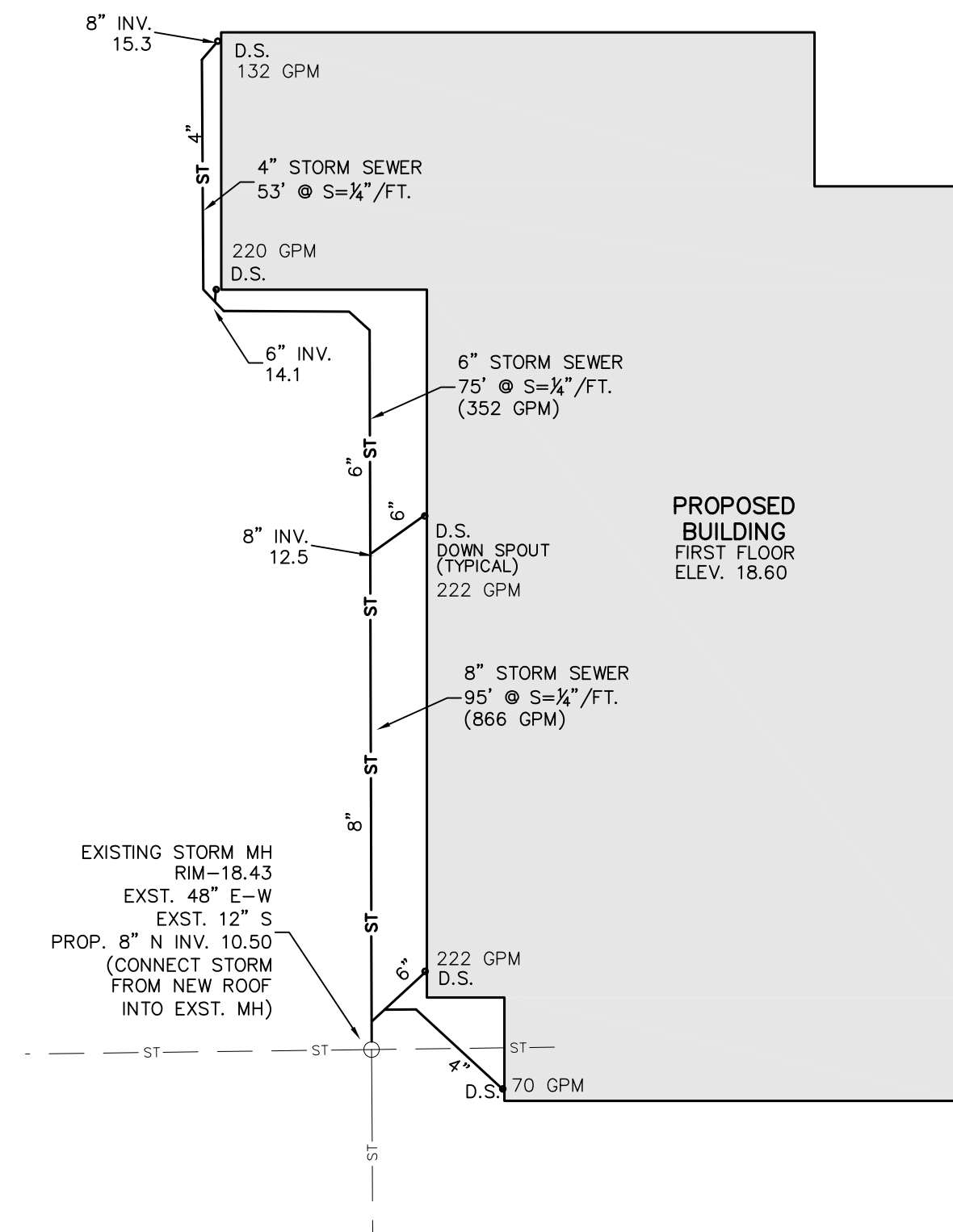
NO.	ARC LENGTH	RADIUS	CHORD BEARING	CHORD LENGTH	DELTA ANGLE
C1	360.30'	705.00'	N 34°02'06" W	356.39'	29°16'54"
C2	343.69'	5670.00'	S 79°17'41" E	343.64'	3°28'23"



ALTER TRADING
 1800 W. BRUCE STREET
 MILWAUKEE, WI

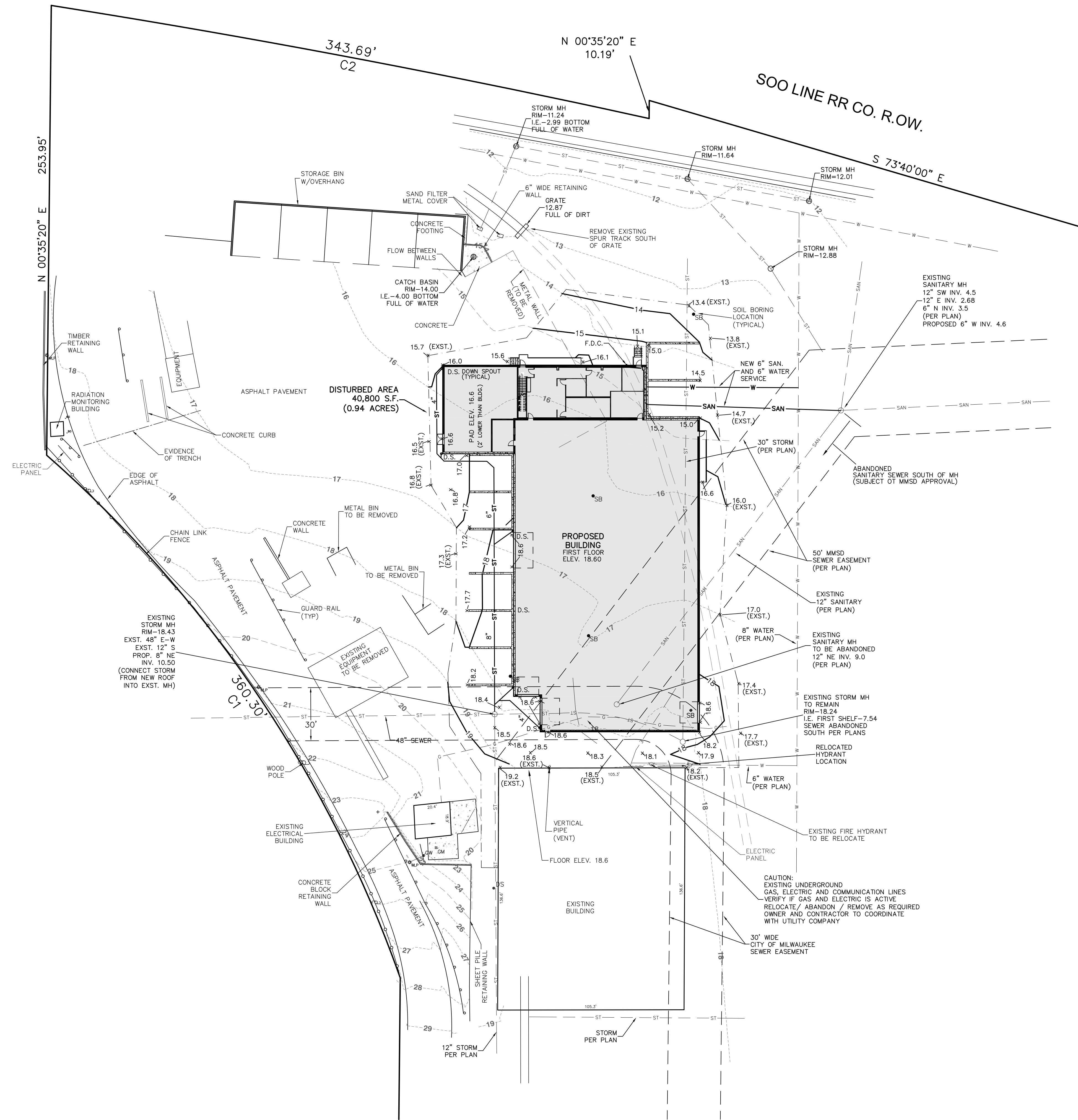
CJE NO.: I908R0EX
 APRIL 16, 2019

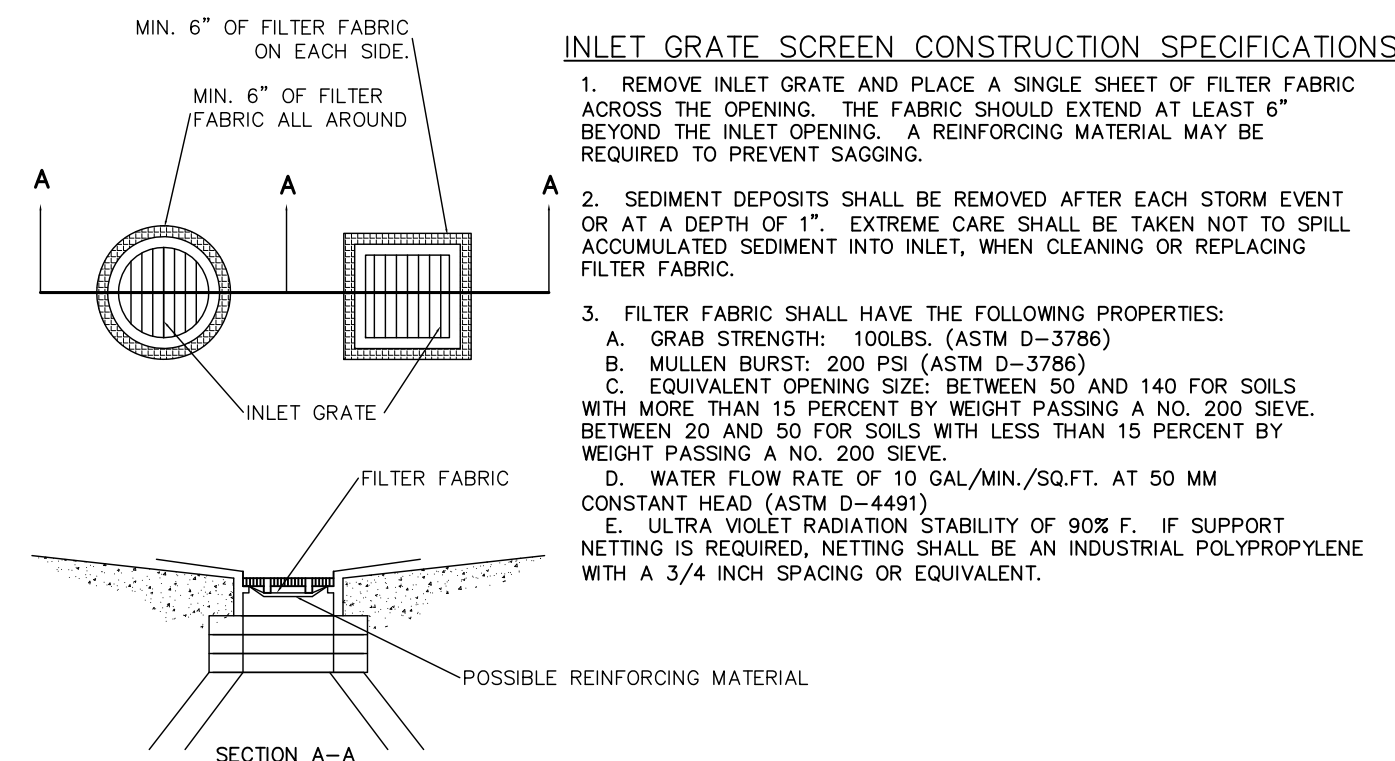
STORM SEWER DESIGN



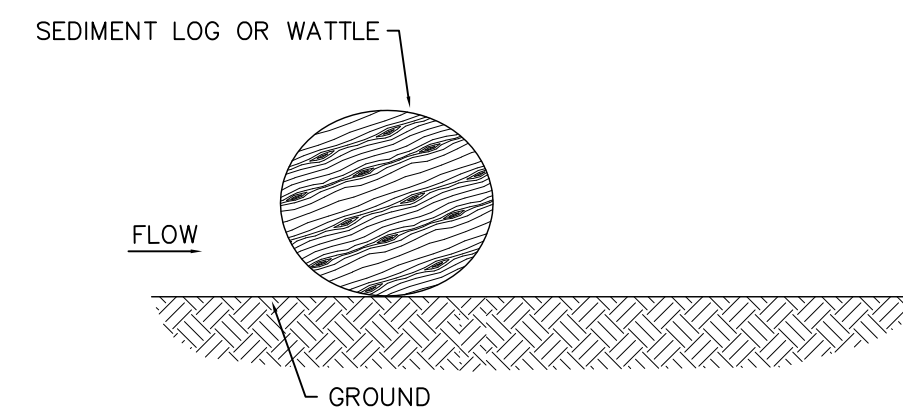
- NOTES:**
1. ALL STORM SEWER, SANITARY SEWER, AND WATER MAIN MATERIALS AND INSTALLATION PER APPLICABLE SECTIONS OF THE LATEST EDITIONS OF THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (STANDARD SPECIFICATIONS), WISCONSIN ADMINISTRATIVE PLUMBING CODE AND THE CITY OF MILWAUKEE REQUIREMENTS.
 2. ALL TRENCHES IN PAVEMENT AREAS SHALL HAVE GRAVEL BACKFILL.
 3. THE EXISTING UTILITIES ARE BASED ON PLANS PROVIDED BY THE OWNER AND WHAT DIGGERS HOTLINE WAS ABLE TO LOCATE PRIOR TO THE SURVEY. THERE MIGHT BE ADDITIONAL EXISTING UTILITIES NOT SHOWN ON THIS PLAN AND/OR THE EXACT EXISTING LOCATION OF THE PER PLAN UTILITIES MIGHT VARY FROM WHAT IS SHOWN.
 4. PROPOSED WATER SERVICE SHALL HAVE A MINIMUM 6 FEET OF COVER.
 5. THE CONTRACTOR SHALL VERIFY ALL SEWER AND WATER CONNECTIONS PRIOR TO UTILITY CONSTRUCTION. NOTIFY THE ENGINEER WITH ANY DISCREPANCIES.
 6. THE PROPOSED DEVELOPMENT IS IN AN AREA OF 100% IMPERVIOUS SURFACE. SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRE AND THERE WILL BE NO CHANGE IN THE AMOUNT OF IMPERVIOUS SURFACE A STORM WATER MANAGEMENT PLAN IS NOT REQUIRED (PER CITY, MMSD AND STATE CODES, ORDINANCES AND RULES).

LEGEND	
---	EXISTING CONTOUR
-16-	PROPOSED CONTOUR
x18.5	PROPOSED ELEVATION
---	EXISTING STORM SEWER
ST---	PROPOSED STORM SEWER
---	EXISTING SANITARY SEWER
SAN---	PROPOSED SANITARY SEWER
---	EXISTING WATER MAIN
W---	PROPOSED WATER MAIN
---	BURIED GAS MAIN
//---	OVER HEAD WIRE
---	BURIED ELECTRIC
---	DISTURBED AREA

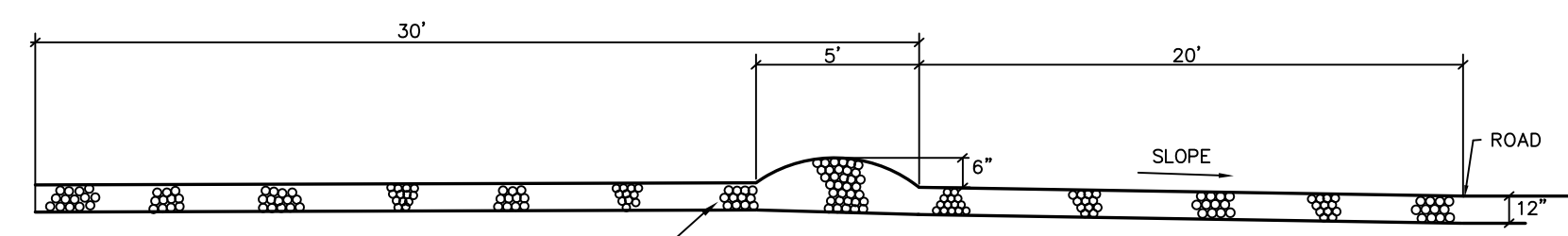




1
INLET GRATE SCREEN
 PER WDR TECHNICAL STANDARD 1060
 NOT TO SCALE



2
WATTLE / SEDIMENT LOG
 PER WDR TECHNICAL STANDARD 1062
 NOT TO SCALE



3
TRACKING PAD
 PER WDR TECHNICAL STANDARD 1057
 NOT TO SCALE

CONSTRUCTION SCHEDULE

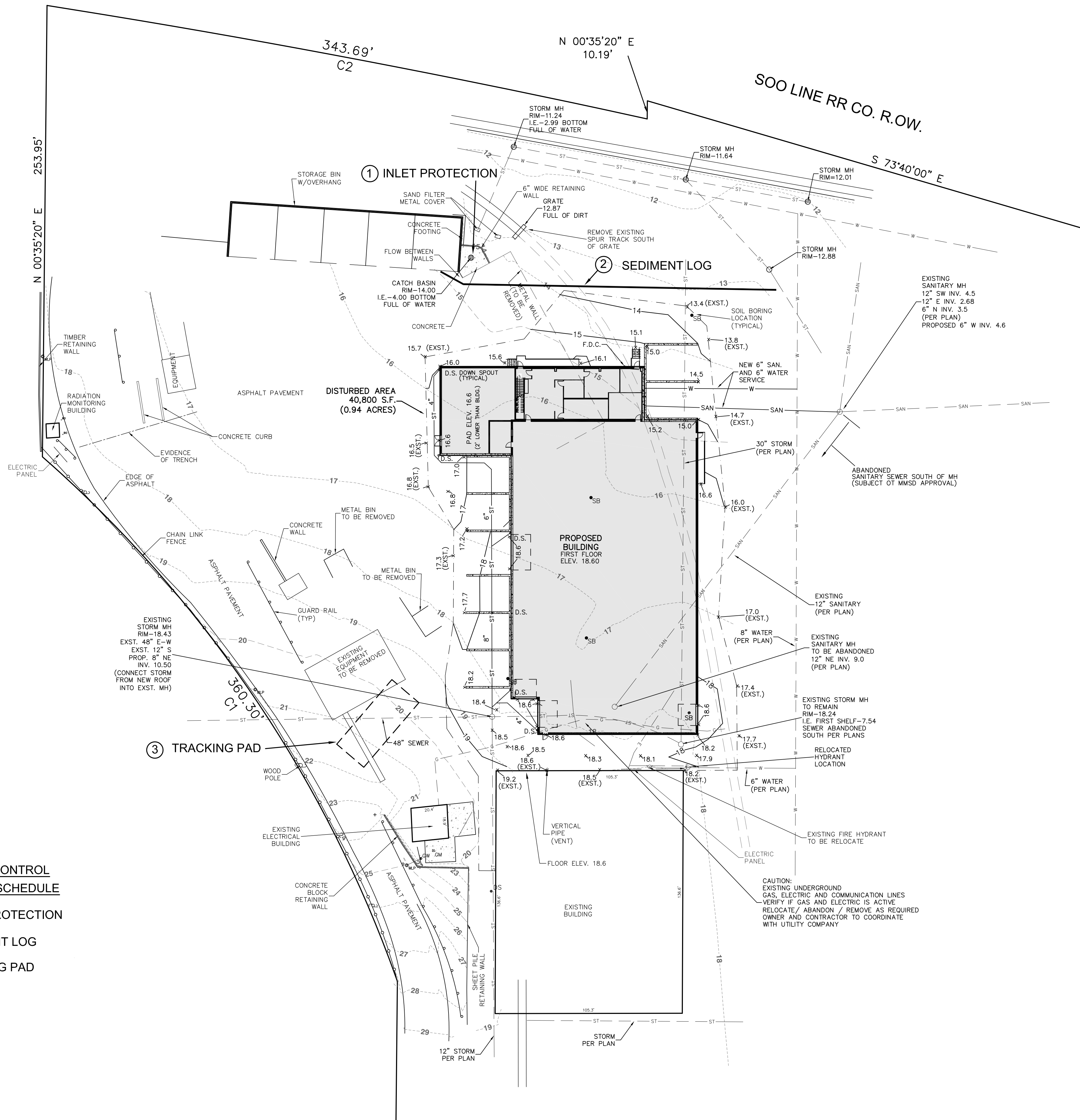
- OBTAIN PLAN APPROVAL AND OTHER APPLICABLE PERMITS.
- FLAG THE WORK LIMIT AND BUFFER AREA FOR PROTECTION.
- INSTALL INLET GRATE SCREENS IN THE EXISTING CATCH BASIN.
- INSTALL SEDIMENT LOG (WATTLE) AS SOON AS FEASIBLE.
- DEMO EXISTING EQUIPMENT TO BE REMOVED.
- INSTALL TRACKING PAD.
- ROUGH GRADE SITE.
- BEGIN BUILDING CONSTRUCTION.
- INSTALL PROPOSED UTILITIES.
- INSTALL BASE COURSE OF PAVEMENT.
- FINAL GRADE SLOPES AND TOPSOIL CRITICAL SLOPES; VEGETATE AND MULCH ALL DISTURBED AREAS.
- ALL EROSION CONTROL PRACTICES WILL BE INSPECTED WEEKLY AND AFTER RAINFALL. NEEDED REPAIRS WILL BE PERFORMED IMMEDIATELY.
- AFTER SITE IS STABILIZED, REMOVE ALL TEMPORARY MEASURES AND VEGETATE THE DISTURBED AREAS.
- ESTIMATED TIME BEFORE FINAL STABILIZATION - 3 MONTHS.

MAINTENANCE PLAN

- ALL EROSION AND SEDIMENT CONTROL PRACTICES WILL BE CHECKED FOR STABILITY AND OPERATION FOLLOWING EVERY 1/2" RUNOFF-PRODUCTION RAINFALL BUT IN NO CASE LESS THAN ONCE EVERY WEEK. ANY NEEDED REPAIRS WILL BE MADE IMMEDIATELY TO MAINTAIN ALL PRACTICES AS DESIGNED.
- SEDIMENT WILL BE REMOVED FROM BEHIND THE WATTLE WHEN IT BECOMES ABOUT 0.3 FT. DEEP. THE WATTLE WILL BE REPAIRED AS NECESSARY TO MAINTAIN A BARRIER.
- ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING BEFORE THE END OF EACH DAY.

EROSION CONTROL PRACTICES SCHEDULE

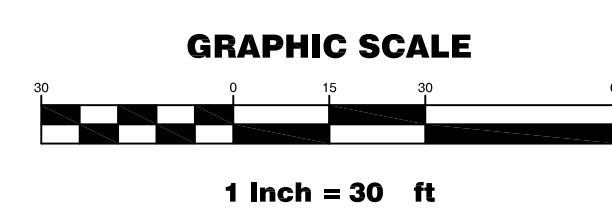
- INLET PROTECTION
- SEDIMENT LOG
- TRACKING PAD

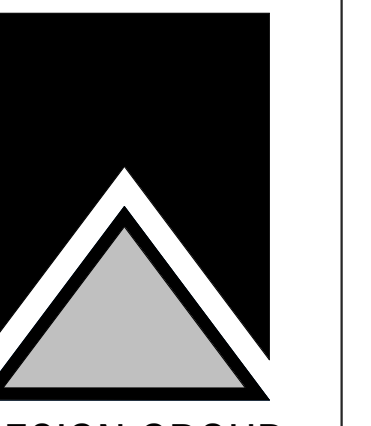


DISTURBED AREA: 40,800 S.F. (0.94 ACRES)

NOTE:

THE PROPOSED DEVELOPMENT IS IN AN AREA OF 100% IMPERVIOUS SURFACE. SINCE THE DISTURBED AREA IS LESS THAN 1.0 ACRE AND THERE WILL BE NO CHANGE IN THE AMOUNT OF IMPERVIOUS SURFACE, A STORM WATER MANAGEMENT PLAN IS NOT REQUIRED (PER CITY, MMSD AND STATE CODES, ORDINANCES AND RULES).





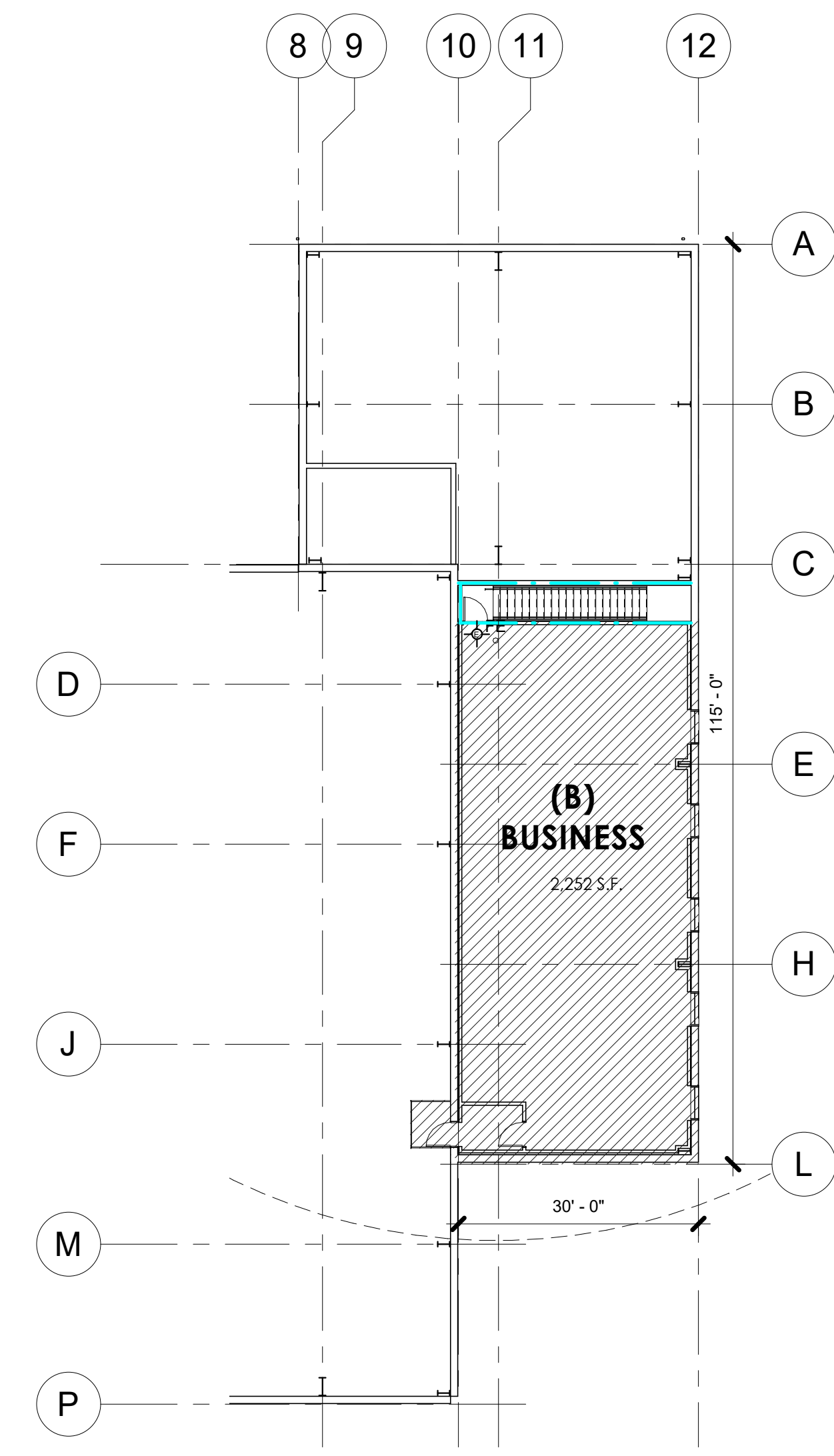
CODE PLAN

SHEET TITLE

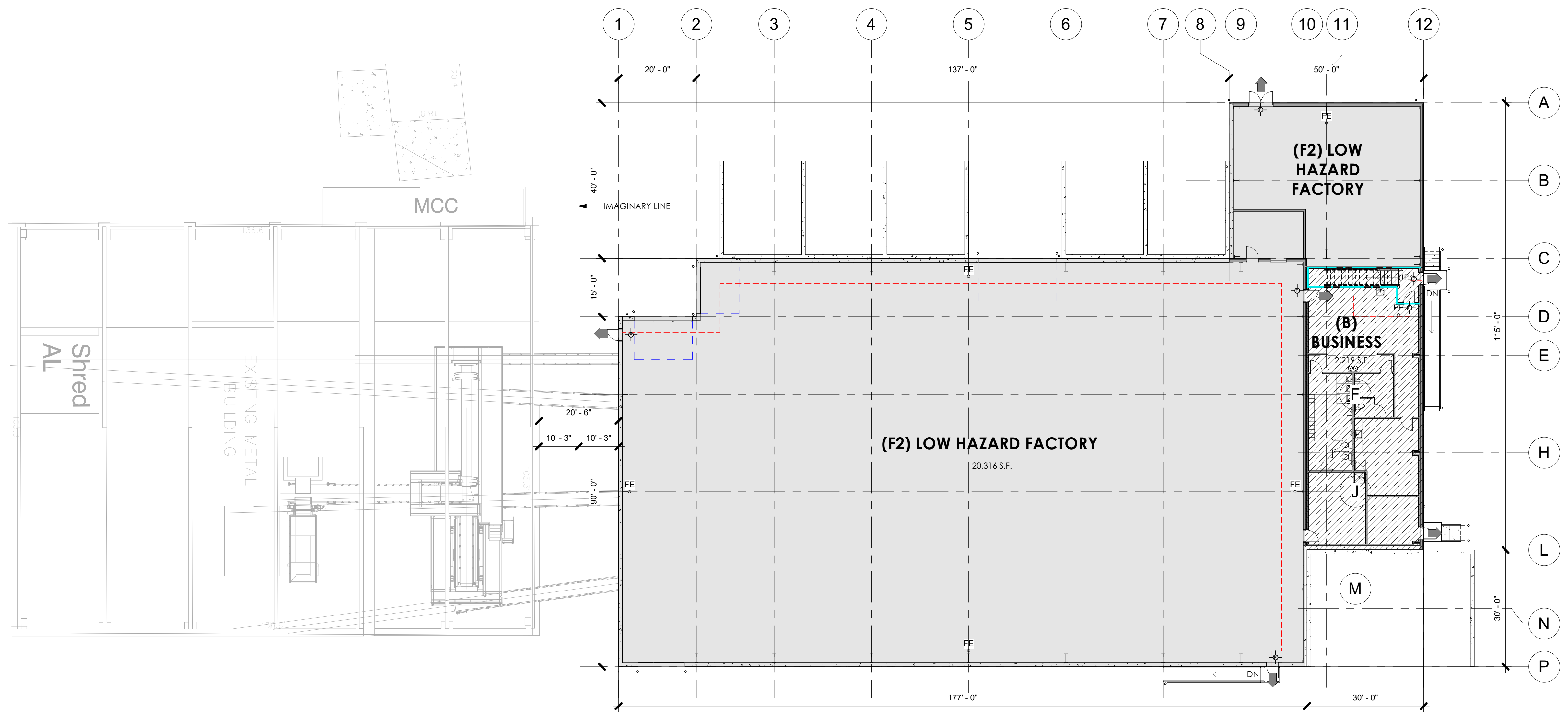
PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN

CODE PLAN LEGEND	
---	EXIT ACCESS
34" →	EXIT WIDTH
⊕	EXIT LIGHT
○ FE	FIRE EXTINGUISHER BRACKET MTD.
□ FEC	FIRE EXTINGUISHER CABINET

RATED PARTITION LEGEND	
---	1 HOUR RATED FIRE BARRIER WALL
---	2 HOUR RATED FIRE WALL
---	3 HOUR RATED FIRE WALL



2 MEZZANINE FLOOR
1/16" = 1'-0"

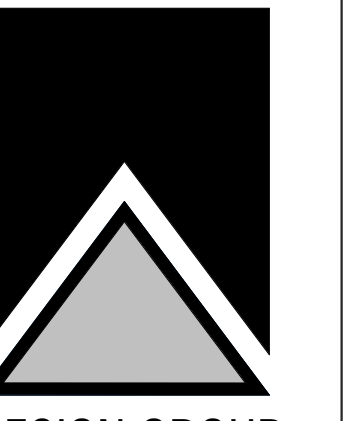


1 FIRST FLOOR
1/16" = 1'-0"

TRUE NORTH
PLAN NORTH
APPLICABLE TO ALL PLAN VIEWS

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

A0.1

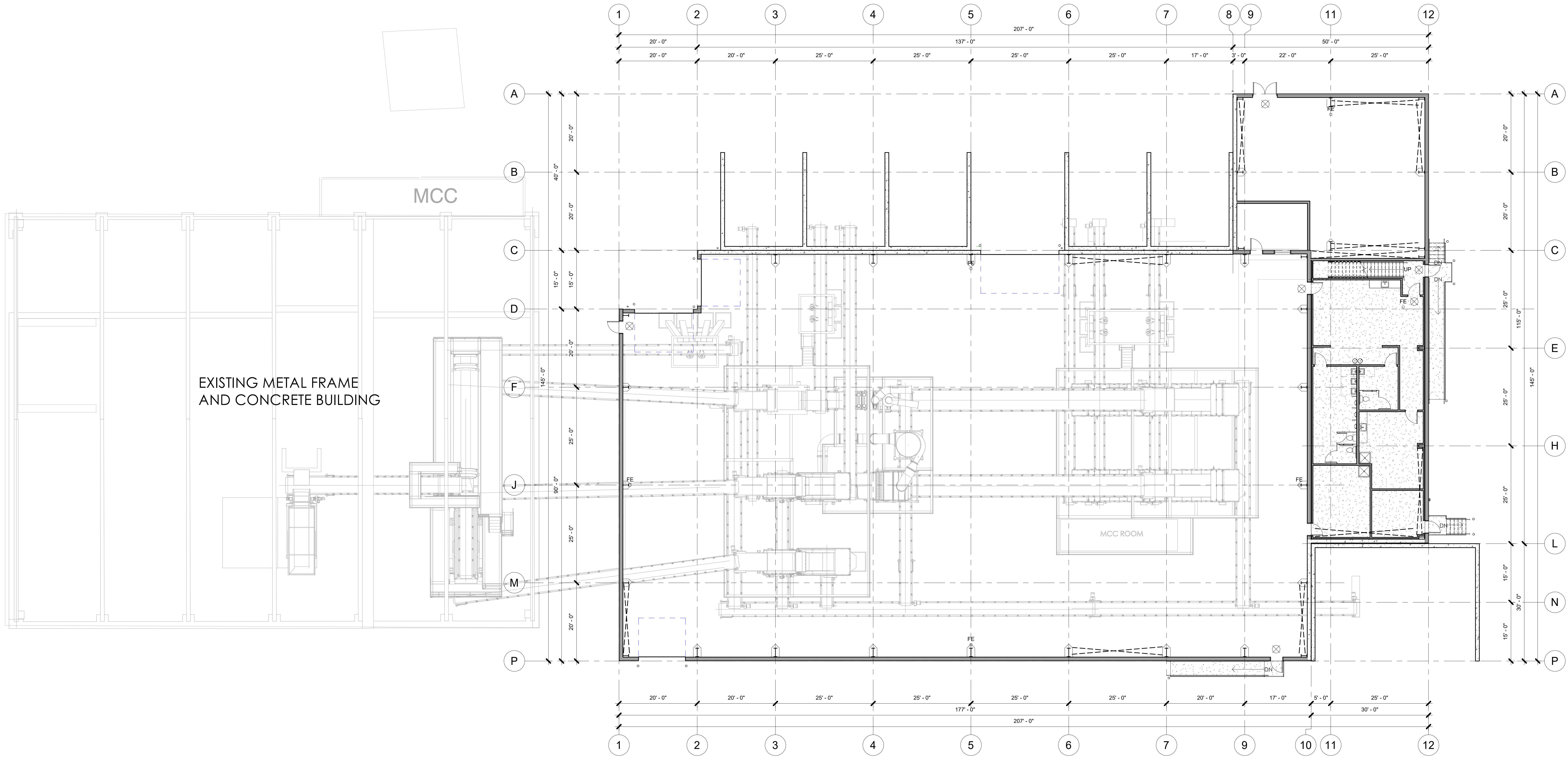


OVERALL FLOOR PLAN

SHEET TITLE

PROPOSED NEW BUILDING FOR:

ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN



EXISTING METAL FRAME
AND CONCRETE BUILDING

MCC

MCC ROOM

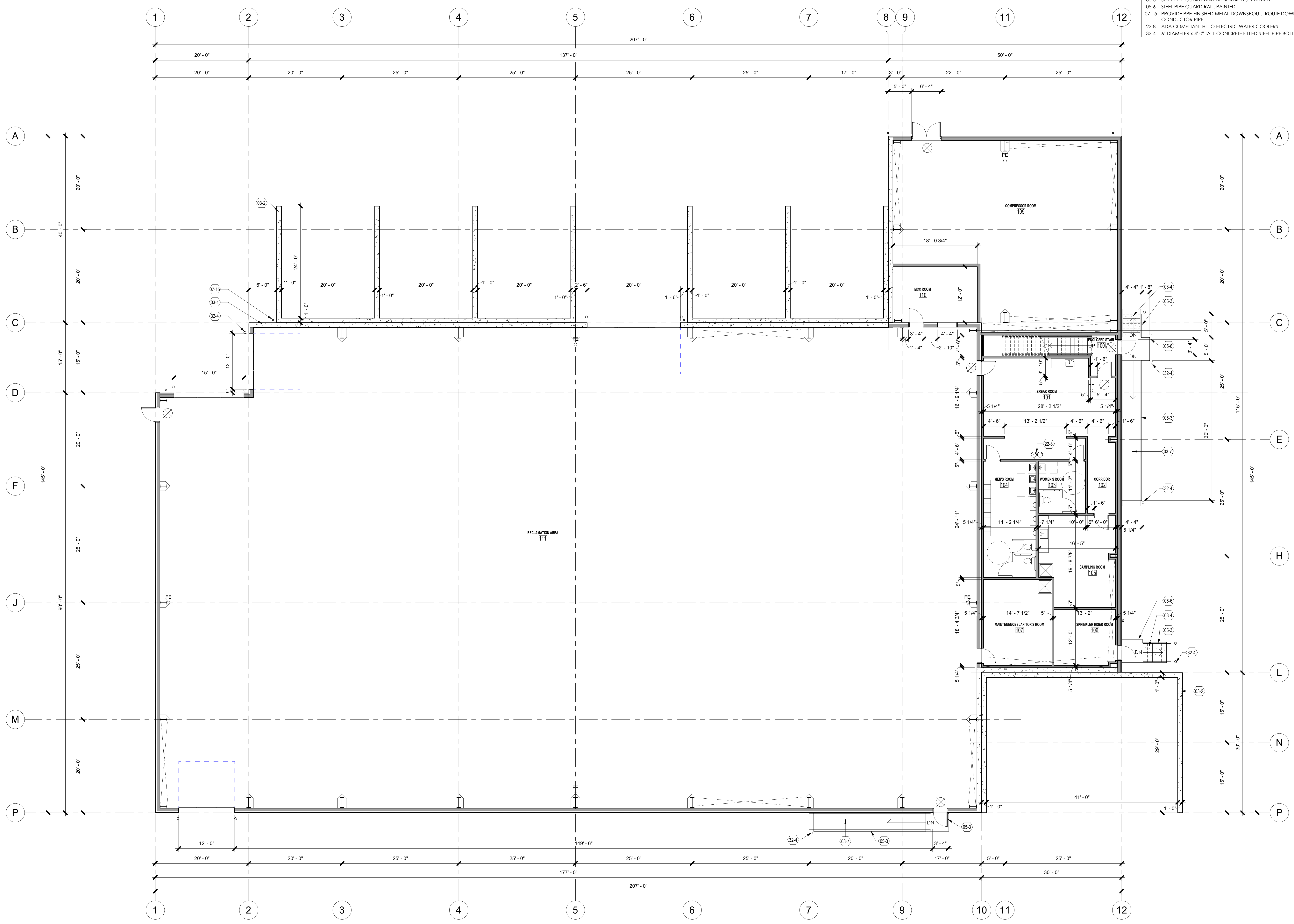
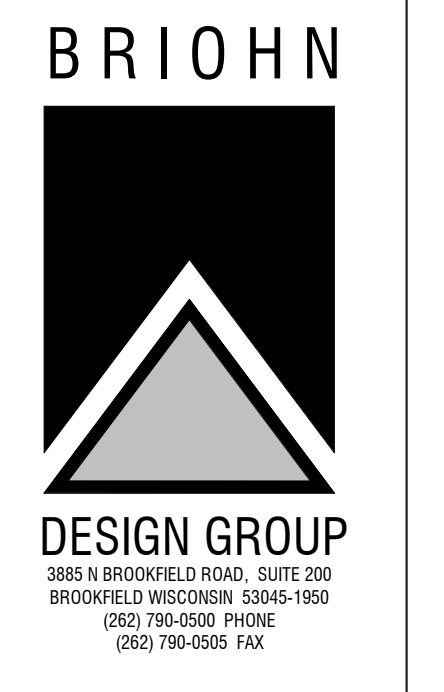
1 OVERALL FLOOR PLAN
3/32" = 1'-0"

TRUE NORTH
PLAN NORTH
APPLICABLE
TO ALL
PLAN VIEWS

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

A1.0

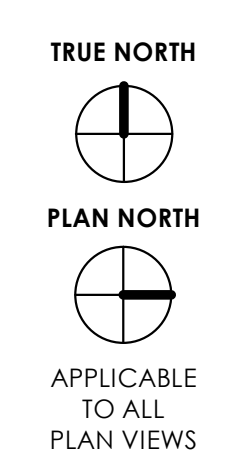
KEYNOTE LEGEND	
VALUE	FLOOR PLAN CODED NOTES
03-1	1 1/2" THICK CONCRETE WAINSCOT WALL, PAINTED
03-2	1 1/2" THICK CONCRETE CONTAINMENT WALLS, PAINTED
03-4	POURED CONCRETE STAIRS
03-7	POURED CONCRETE RAMP
05-3	STEEL PIPE GUARD AND HANDRAILING, PAINTED.
05-6	STEEL PIPE GUARD RAIL, PAINTED.
07-15	PROVIDE PRE-FINISHED METAL DOWNSPOUT. ROUTE DOWN FACE OF WALL TO VERTICAL CONDUCTOR PIPE.
22-8	ADA COMPLIANT HILO ELECTRIC WATER COOLERS.
32-4	6" DIAMETER x 4'-0" TALL CONCRETE FILLED STEEL PIPE BOLLARD(S), PAINTED SAFETY YELLOW



NEW FLOOR PLAN

PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN

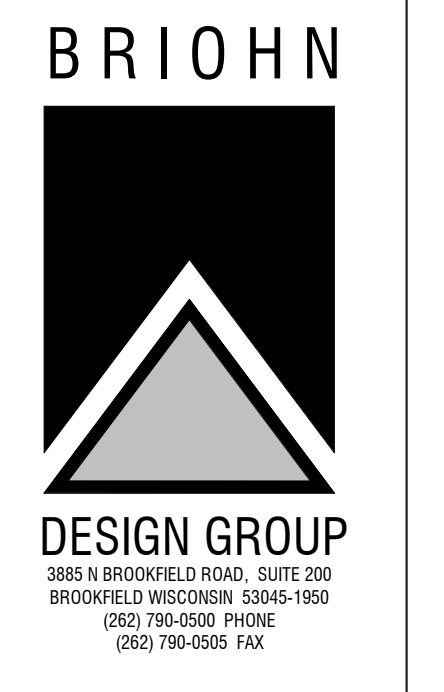
1 OVERALL FLOOR PLAN
1/8" = 1'-0"



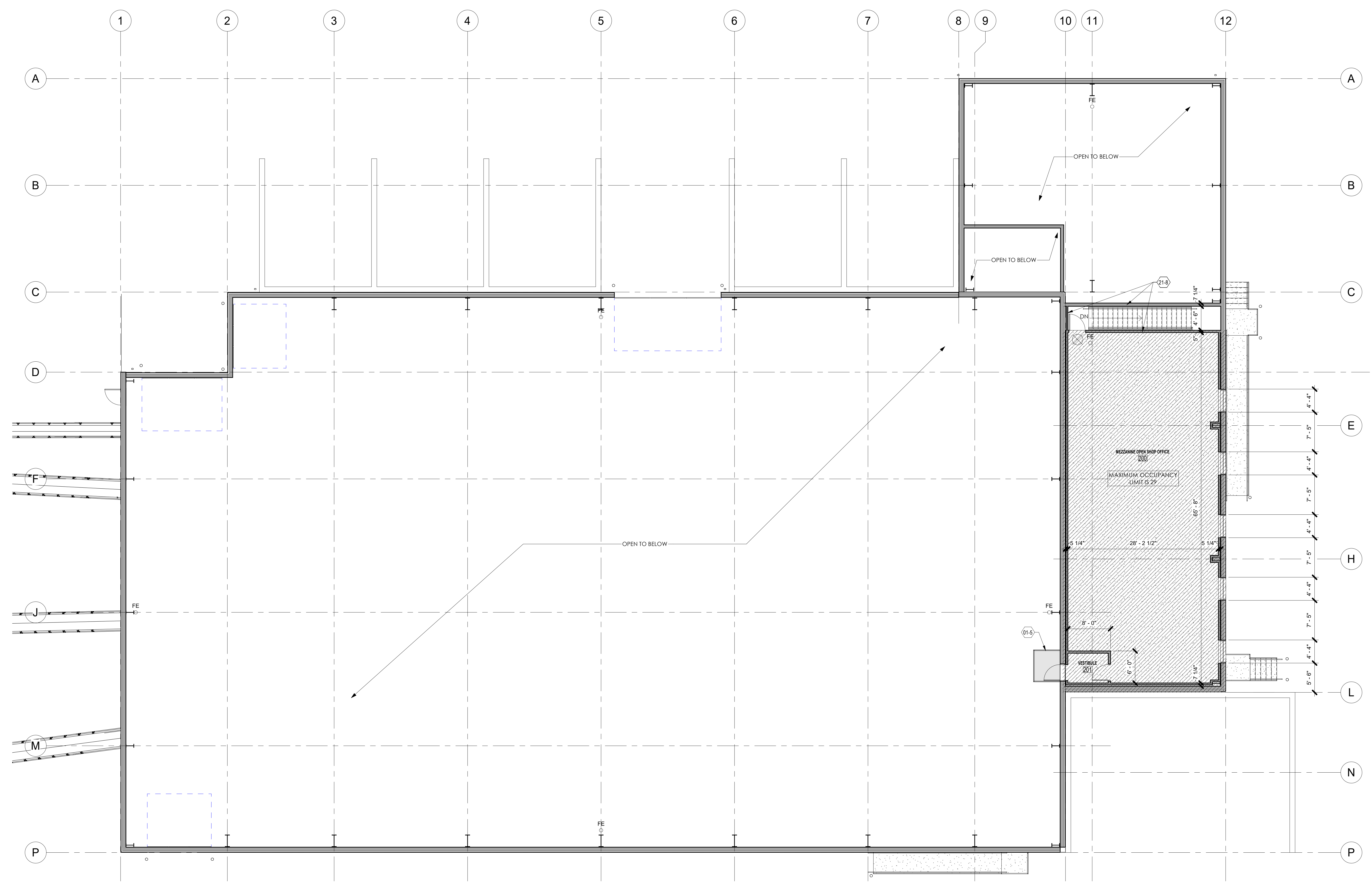
JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

A1.1

KEYNOTE LEGEND	
FLOOR PLAN CODED NOTES	
VALUE	
01-5	PROVIDE STEEL GRATE LANDING FOR PLATFORM WITH SUPPORT COLUMNS - INCLUDE 42" HIGH GUARD RAIL PER OSHA AND IBC.
21-8	1 HOUR RATED FIRE BARRIER DRYWALL PARTITION WALLS FOR STAIR ENCLOSURE.



SHEET TITLE
MEZZANINE FLOOR PLAN



PROPOSED NEW BUILDING FOR:
 ALTER TRADING
 1640 WEST BRUCE STREET
 MILWAUKEE, WISCONSIN

1 MEZZANINE FLOOR PLAN
1/8" = 1'-0"

TRUE NORTH

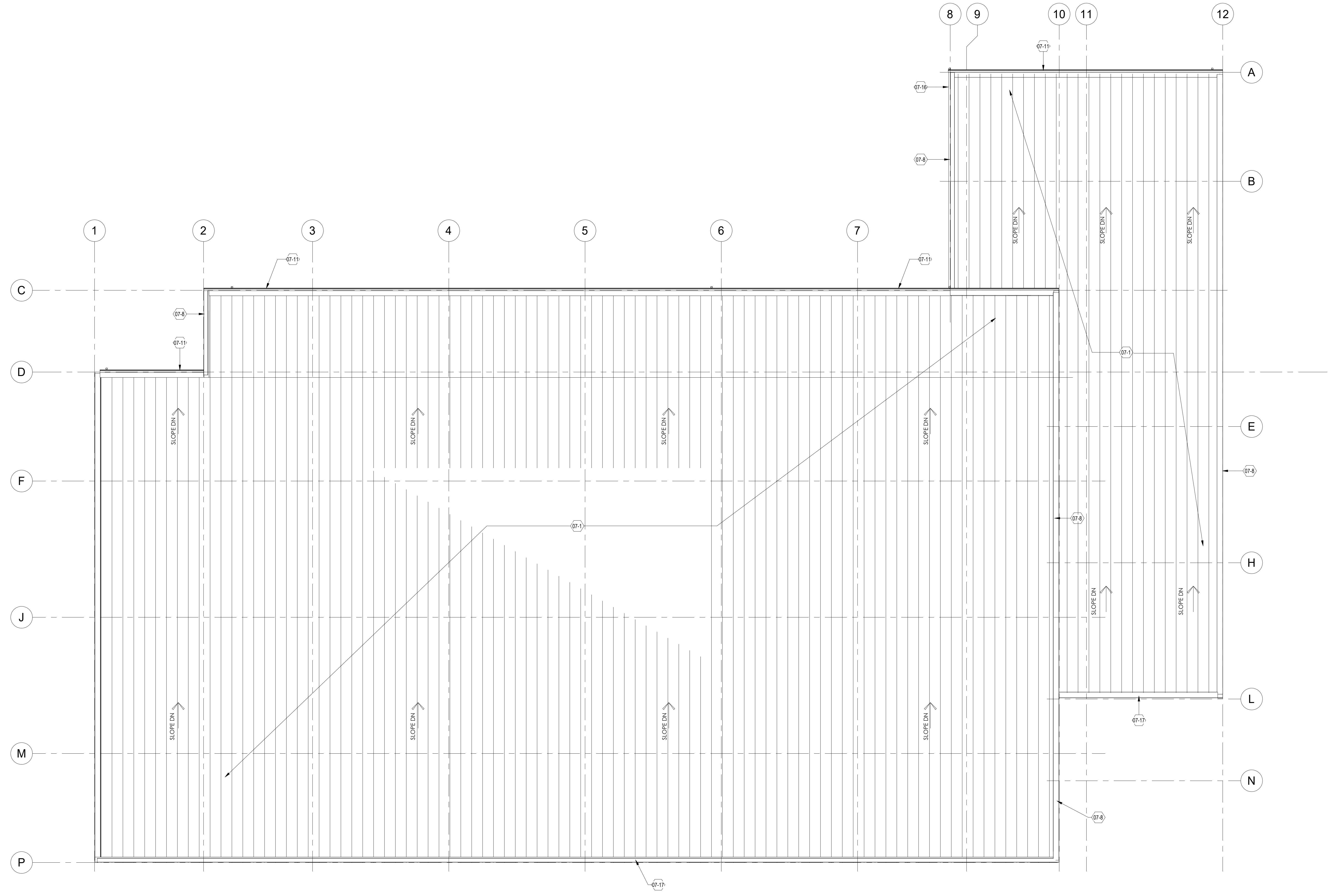
 PLAN NORTH

 APPLICABLE TO ALL PLAN VIEWS

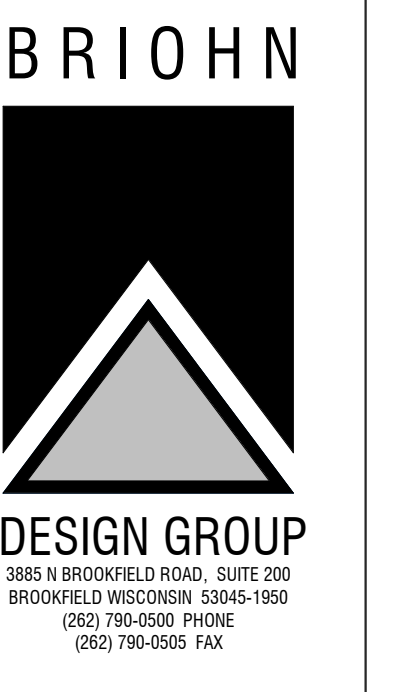
JOB: 3149
 DRAWN: CK/CJR
 CHECKED: DF
 DATE: 04-16-2019
 SHEET:

A1.2

KEYNOTE LEGEND	
VALUE	FLOOR PLAN CODED NOTES
07-1	PRE-FINISHED METAL STANDING SEAM / IMP INSULATED PANEL ROOF
07-8	PRE-FINISHED METAL RAKE TRIM
07-11	PRE-FINISHED METAL GUTTER SIZED TO MEET REQUIRED CAPACITY FOR ROOF DRAINAGE
07-16	PRE-FINISHED METAL DOWNSPOUT RUN HORIZONTALLY SLOPED AS REQUIRED BY CODE TO CONNECTING VERTICAL DOWNSPOUT. ROUTE HORIZONTAL DOWN ALONG FACE OF WALL.
07-17	PRE-FINISHED TRANSITION FLASHING (ROOF TO WALL)



1 NEW ROOF PLAN
1/8" = 1'-0"



NEW ROOF PLAN

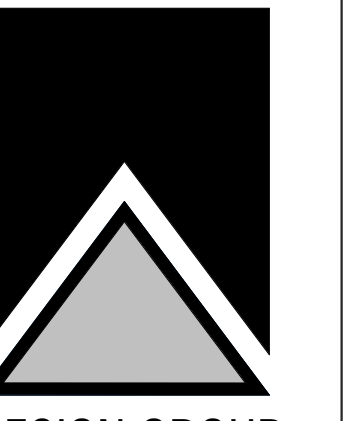
SHEET TITLE

PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN

TRUE NORTH
PLAN NORTH
APPLICABLE TO ALL PLAN VIEWS

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019
SHEET:

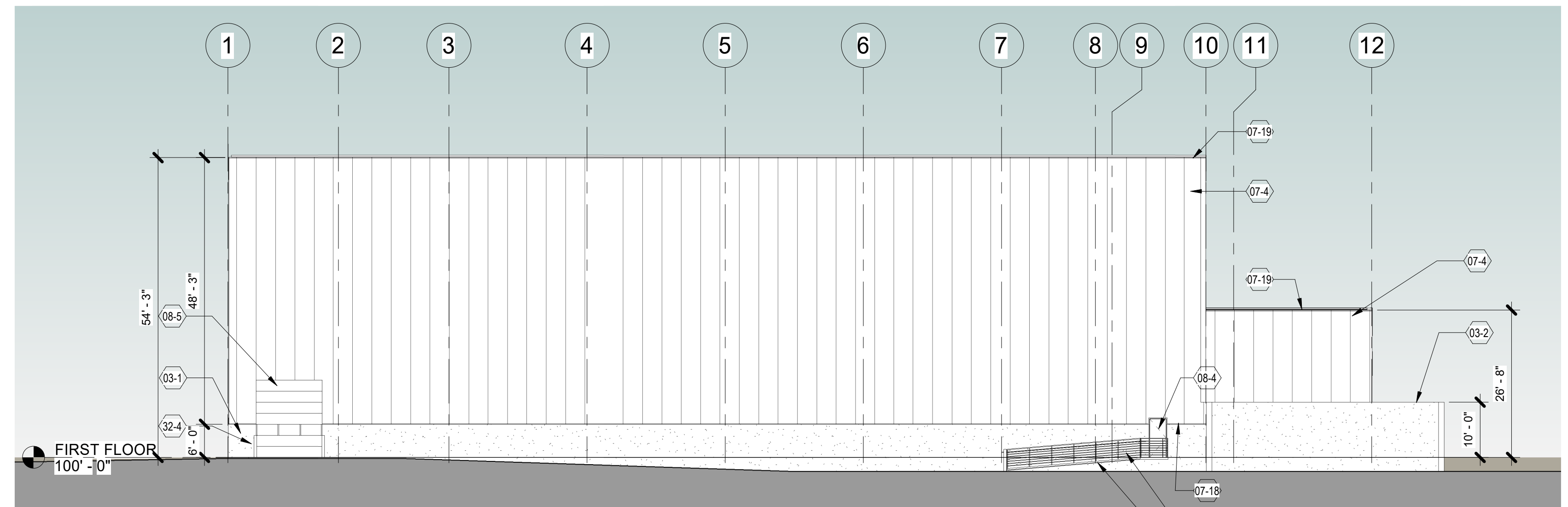
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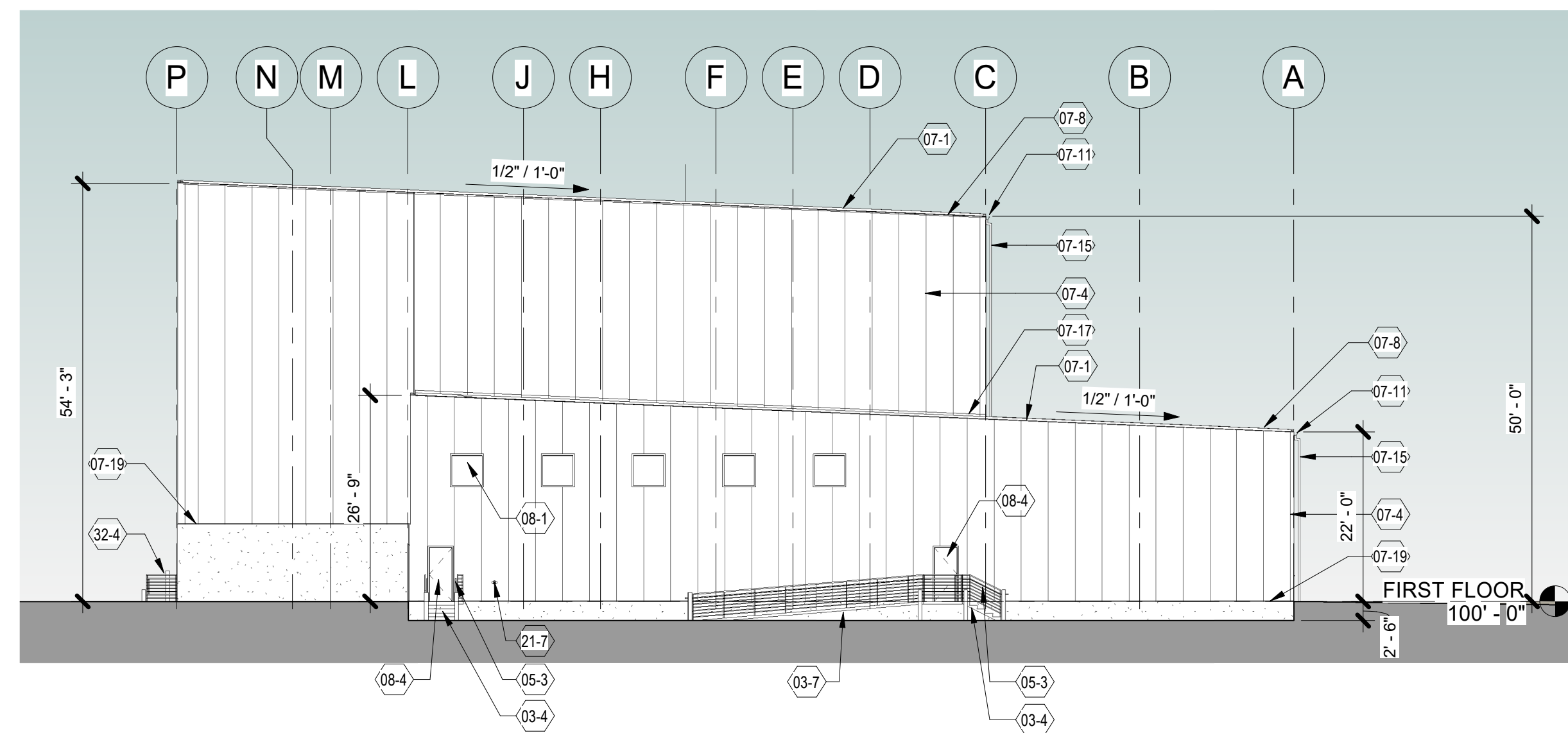
EXTERIOR ELEVATIONS

SHEET TITLE

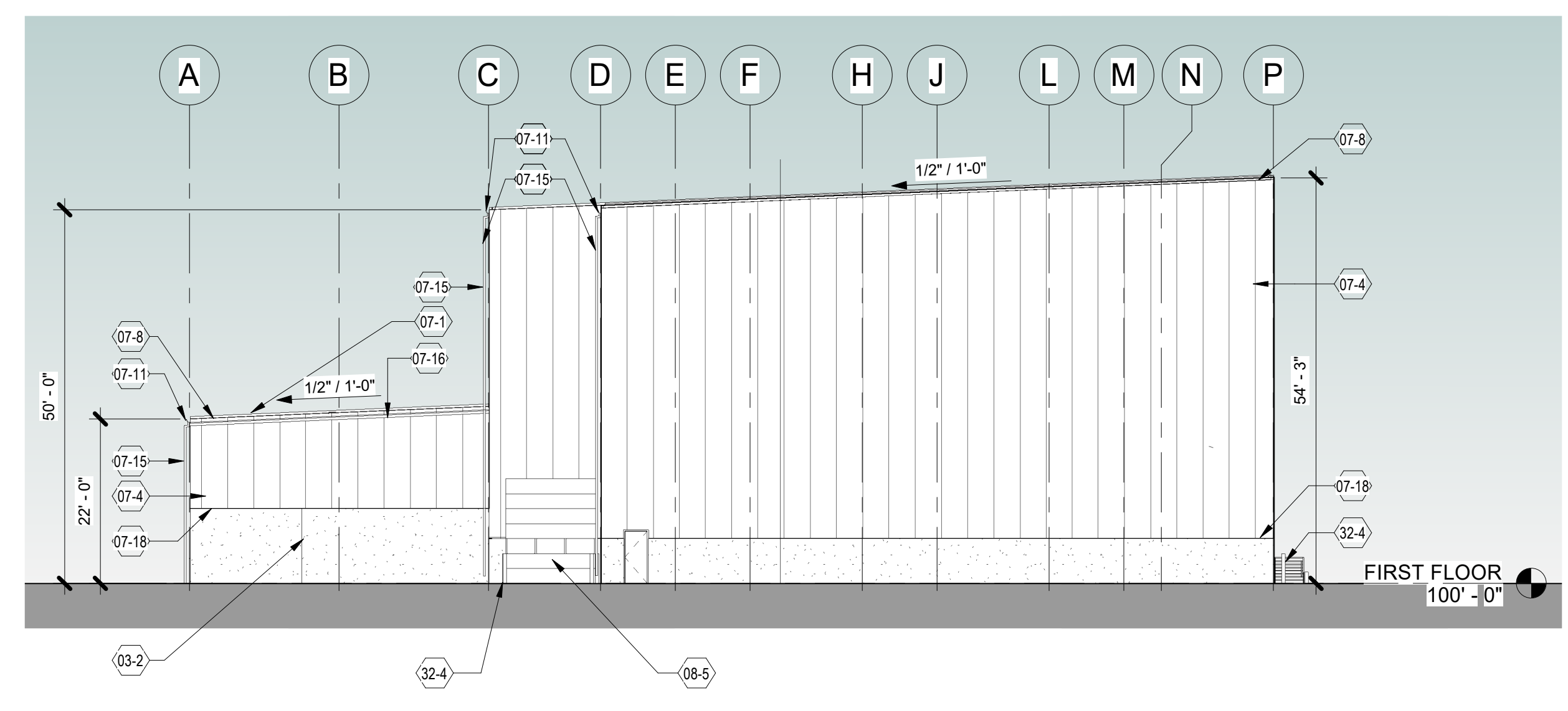
PROPOSED NEW BUILDING FOR:
ALTER TRADING
1640 WEST BRUCE STREET
MILWAUKEE, WISCONSIN



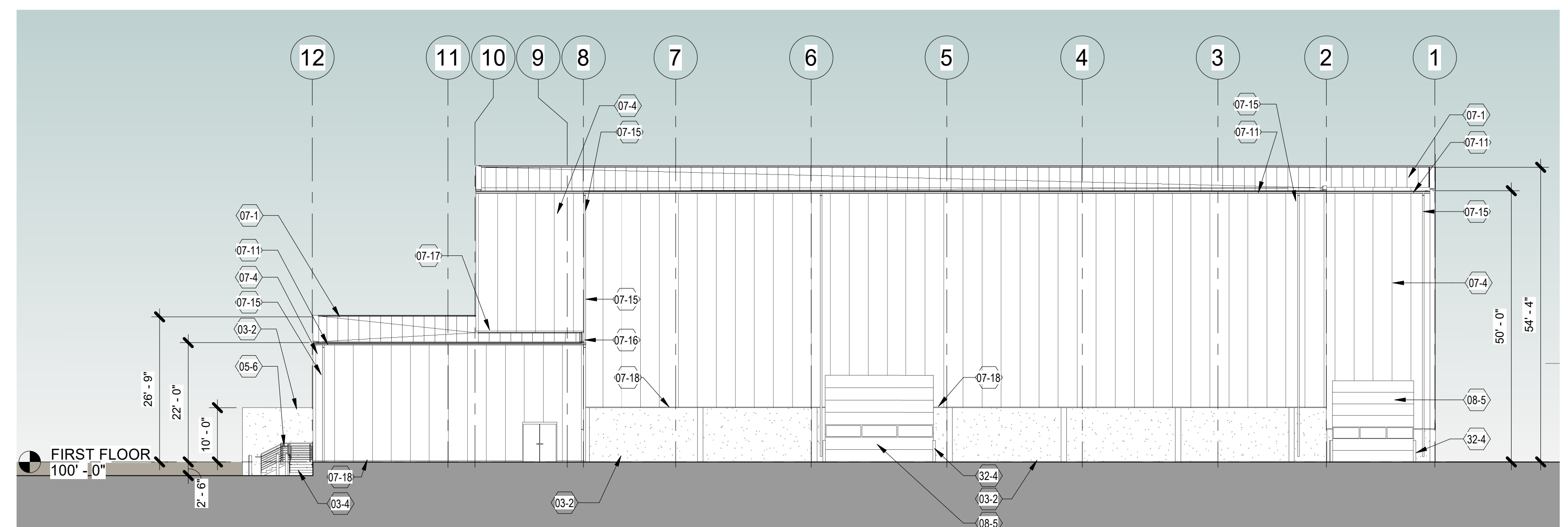
4 EAST ELEVATION
1/16" = 1'-0"



3 NORTH ELEVATION
1/16" = 1'-0"



2 SOUTH ELEVATION
1/16" = 1'-0"



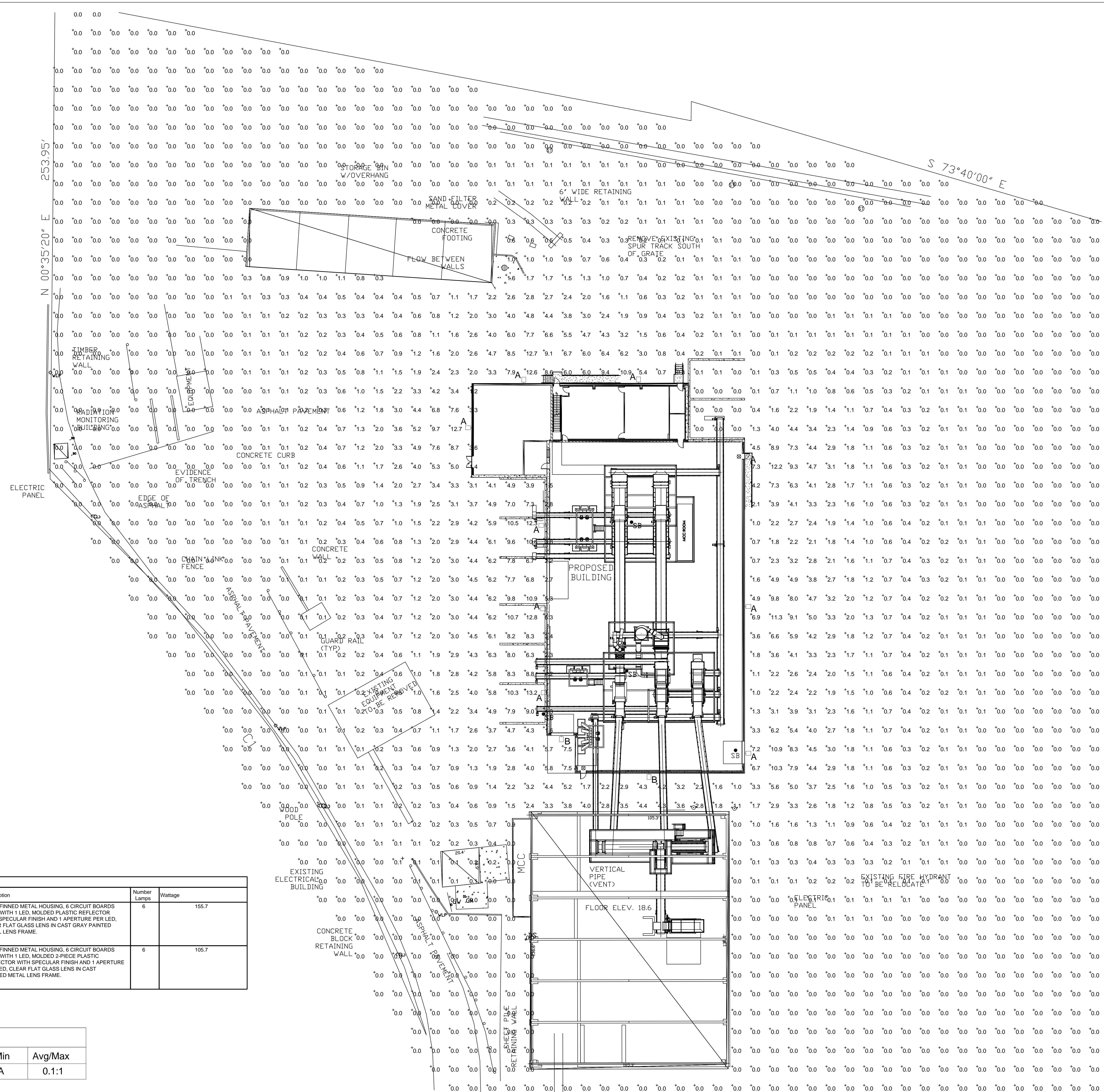
1 WEST ELEVATION
1/16" = 1'-0"

KEYNOTE LEGEND

VALUE	FLOOR PLAN CODED NOTES
03-1	12" THICK CONCRETE WAINSCOT WALL, PAINTED
03-2	12" THICK CONCRETE CONTAINMENT WALLS, PAINTED
03-4	POURED CONCRETE STAIRS
03-7	POURED CONCRETE RAMP
05-3	STEEL PIPE GUARD AND HANDRAILING, PAINTED.
05-6	STEEL PIPE GUARD RAIL, PAINTED.
07-1	PRE-FINISHED METAL STANDING SEAM / IMP INSULATED PANEL ROOF
07-4	3" METAL SANDWICH PANEL, EXTERIOR FACING: HARD AGGREGATED FIBER-REINFORCED POLYMER COATING G-90 GALVANIZED OR AZ-50 ALUMINIUM-ZINC COATED STEEL IN 22 GA. FORM CORE: FOAMED-IN-PLACE NON-CFC & ZERO ODP POLYURETHANE, FAM CLASS 1 APPROVAL, INTERIOR FACING: LIGHT MESA WAVE PATTERN, NOMINAL 1/16" DEEP G-90 GALVANIZED OR AZ-50 ALUMINIUM-ZINC COATED STEEL IN 26, 24 AND 22 GA.
07-8	PRE-FINISHED METAL RAKE TRIM.
07-11	PRE-FINISHED METAL GUTTER SIZED TO MEET REQUIRED CAPACITY FOR ROOF DRAINAGE.
07-15	PROVIDE PRE-FINISHED METAL DOWNSPOUT, ROUTE DOWN FACE OF WALL TO VERTICAL CONDUCTOR PIPE.
07-16	PRE-FINISHED METAL DOWNSPOUT RUN HORIZONTALLY SLOPED AS REQUIRED BY CODE TO CONNECTING VERTICAL DOWNSPOUT, ROUTE HORIZONTAL DOWN ALONG FACE OF WALL.
07-17	PRE-FINISHED TRANSITION FLASHING (ROOF TO WALL)
07-18	PRE-FINISHED METAL BASE TRIM FLASHING
07-19	PRE-FINISHED METAL EAVE FLASHING
08-1	4'-0" X 4'-0" THERMALLY BROKEN CLEAR ANODIZED ALUMINUM FIXED FRAMED STOREFRONT WINDOW SYSTEM W/1" INSULATED LOW-E GLASS
08-4	PAINTED HOLLOW METAL SERVICE DOOR AND FRAME
08-5	INSULATED OH DOOR, FACTORY FINISHED WITH VISION WINDOWS.
21-7	FIRE DEPARTMENT CONNECTION AND ALARM - REFER FLOOR PLAN.
32-4	6" DIAMETER x 4'-0" TALL CONCRETE FILLED STEEL PIPE BOLLARD(S), PAINTED SAFETY YELLOW

JOB: 3149
DRAWN: CK/CJR
CHECKED: DF
DATE: 04-16-2019

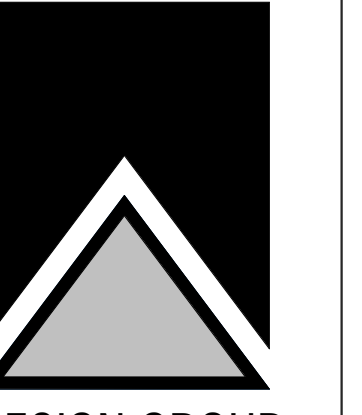
SHEET: A5.1



Luminaire Schedule						
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Wattage
☐	A	9	RAB LIGHTING, INC.	WPLED4T150 (TYPE IV)	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST GRAY PAINTED METAL LENS FRAME.	155.7
				Building Mounted at 22'		
☐	B	2	RAB LIGHTING, INC.	WPLED4T105 (TYPE IV)	CAST FINNED METAL HOUSING, 6 CIRCUIT BOARDS EACH WITH 1 LED, MOLDED 2-PIECE PLASTIC REFLECTOR WITH SPECULAR FINISH AND 1 APERTURE PER LED, CLEAR FLAT GLASS LENS IN CAST PAINTED METAL LENS FRAME.	105.7
				Building Mounted at 22'		

Statistics							
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min	Avg/Max
Calc Zone #1	+	0.8 fc	13.2 fc	0.0 fc	N/A	N/A	0.1:1

Exterior Lighting
DATE:
4-16-19
REVISIONS:



WPLED4T150

RAB Outdoor



Color: Bronze Weight: 34.8 lbs

Project: Alter Trading	Type: A
Prepared By: HFR electric inc.	Date: 4-16-19
Driver Info	LED Info
Type: Constant Current	Watts: 150W
120V: 1.31A	Color Temp: 5000K (Cool)
208V: 0.65A	Color Accuracy: 71 CRI
240V: 0.54A	L70 Lf/Resp: 100,000
277V: 0.46A	Lumens: 18,464
Input Watts: 155.8W	Efficacy: 118.5 LPW

Technical Specifications

Listings:
UL Listed:
Suitable for wet locations
DLC Listed:
This product is on the Design Lights Consortium (DLC) Qualified Product List and is eligible for rebates from DLC Member Utilities.
DLC Product Code: P0000792

IESNA LM-79 & LM-80 Testing:
RAB LED luminaires and LED components have been tested by an independent laboratory in accordance with IESNA LM-79 and LM-80.

LED Characteristics

Lifespan:
100,000-hour LED lifespan based on IES LM-80 results and TM-21 calculations

LEDs:
Multi-chip, high-output, long-life LEDs

Color Consistency:
7-step MacAdam Ellipse binning to achieve consistent future-to-future color

Color Stability:
LED color temperature is warranted to shift no more than 200K in CCT over a 5-year period

Color Uniformity:
RAB's range of CCT (Correlated Color Temperature) follows the guidelines of the American National Standard for Specifications for the Chromaticity of Solid State Lighting (SSL) Products, ANSI C78.377-2017.

Construction

IES Classification:
The Type IV distribution (also known as a Forward Throw) is especially suited for mounting on the sides of buildings and walls, and for illuminating the perimeter of parking areas. It produces a semi-circular distribution with essentially the same candlepower at lateral angles from 90° to 270°.

IP Rating:
Ingress Protection rating of IP66 for dust and water

Maximum Ambient Temperature:
Suitable for use in 40°C (104°F)

Cold Weather Starting:
Minimum starting temperature is -40°C (-40°F)

Thermal Management:
Superior thermal management with external "Air-Flow" fins

Housing:
Die-cast aluminum housing, lens frame and mounting arm

Mounting:
Heavy-duty mounting arm with 1/2" ring seal & stainless steel screws

Reflector:
Specular vacuum-metalized polycarbonate

Gaskets:
High-temperature silicone gaskets

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

WPLED4T150

RAB Outdoor

Technical Specifications (continued)

Other

Warranty:
RAB warrants that our LED products will be free from defects in materials and workmanship for a period of five (5) years from the date of delivery to the end user, including coverage of light output, color stability, driver performance and fixture finish. RAB's warranty is subject to all terms and conditions found at: www.rablighting.com/legal/warranty

Buy American Act Compliance:
RAB values USA manufacturing! Upon request, RAB may be able to manufacture this product to be compliant with the Buy American Act (BAA). Please contact customer service to request a quote for the product to be made BAA compliant.

Optical

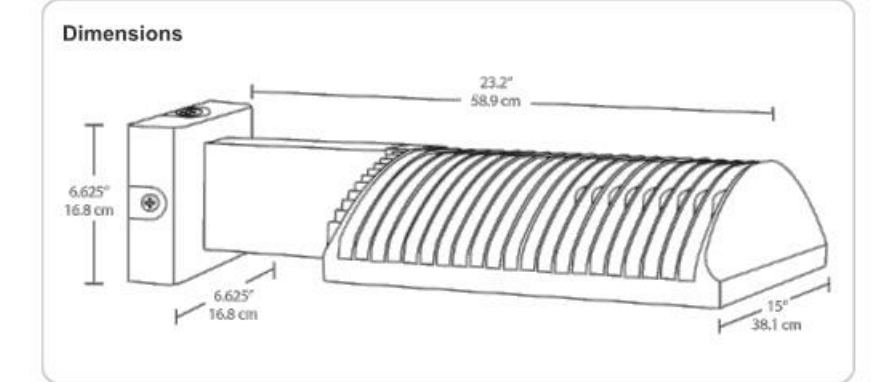
BUG Rating:
B1 U0 G3

Patents:
The design of WPLED150 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

Electrical

Drivers:
One Driver, Constant Current, Class 2, 2100mA 100-277V, 50/60Hz, Power Factor 98%

THD:
4.7% at 120V, 13.3% at 277V



Dimensions

High performance LED light engine
Maintains 70% of initial lumens at 100,000-hours
Weatherproof high temperature silicone gaskets
Superior heat sinking with die cast aluminum housing and external fins
Replaces 400W MH
100 up to 277 Volts
5-Year, No-Compromise Warranty

Ordering Matrix

Family	Optics	Wattage	Color Temp	Mounting	Finish	Driver Options	Other Options
WPLED	4T	150					
	4T = Type IV	50 = 50W	Blank = 5000K (Cool)	Blank = Arm Mount	Blank = Bronze	Blank = Standard	Blank = Standard
	3T = Type III	75 = 75W	N = 4000K (Neutral)	FX = Flat Mount	FX = Flat Mount	480 = 480V	PC = 120V Photocell
	2T = Type II	105 = 105W	Y = 3000K (Warm)		W = White	D10 = 0-10V Dimming	PC2 = 277V Photocell
		125 = 125W				A80D10 = 480V 0-10V Dimming	PC4 = 480V Photocell
		150 = 150W					PC5 = 120V Swivel Photocell
							PC82 = 277V Swivel Photocell
							PC84 = 480V Swivel Photocell
							WS2 = Multi-Level Motion Sensor (20 ft. mt. N.C.)
							WS4 = Multi-Level Motion Sensor (40 ft. mt. N.C.)
							LC = Lightcloud Controller

WPLED4T105

RAB Outdoor



Color: Bronze Weight: 34.8 lbs

Project: Alter Trading	Type: B
Prepared By: HFR electric inc.	Date: 4-16-19
Driver Info	LED Info
Type: Constant Current	Watts: 105W
120V: 0.89A	Color Temp: 5000K (Cool)
208V: 0.58A	Color Accuracy: 70 CRI
240V: 0.50A	L70 Lf/Resp: 100,000
277V: 0.44A	Lumens: 13,860
Input Watts: 109.4W	Efficacy: 125 LPW

Technical Specifications

Listings:
UL Listed:
Suitable for wet locations
DLC Listed:
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DLC Product Code: P0000792

IESNA LM-79 & LM-80 Testing:
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Suitable for use in 40°C (104°F)

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Thermal Management:
Superior thermal management with external "Air-Flow" fins

Housing:
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Mounting:
Heavy-duty mounting arm with 1/2" ring seal & stainless steel screws

Reflector:
Specular vacuum-metalized polycarbonate

Gaskets:
High-temperature silicone gaskets

Finish:
Formulated for high durability and long-lasting color

Green Technology:
Mercury and UV free. RoHS-compliant components.

WPLED4T105

RAB Outdoor

Technical Specifications (continued)

Other

Warranty:
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Optical

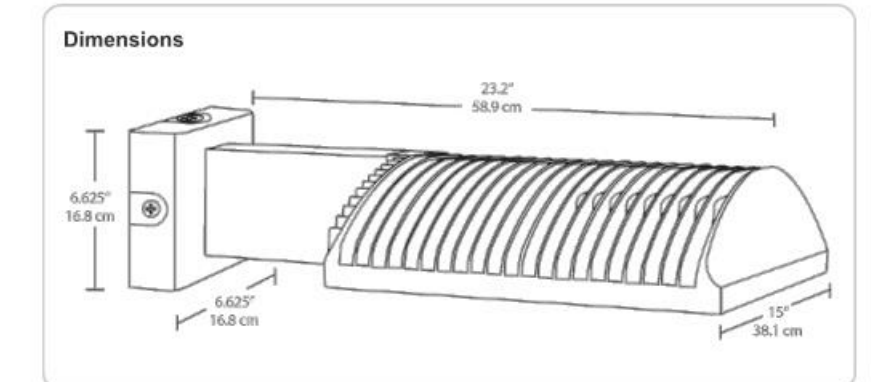
BUG Rating:
B1 U0 G2

Patents:
The design of WPLED105 is protected by patents pending in US, Canada, China, Taiwan and Mexico.

Electrical

Drivers:
Two Drivers, Constant Current, Class 2, 1400mA, 100-277V, 50/60Hz, 0.9A, Power Factor 98%

THD:
7.6% at 120V, 16.5% at 277V



Dimensions

High performance LED light engine
Maintains 70% of initial lumens at 100,000-hours
Weatherproof high temperature silicone gaskets
Superior heat sinking with die cast aluminum housing and external fins
Replaces 400W MH
100 up to 277 Volts
5-Year, No-Compromise Warranty

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