Planning Received 10/14/25

R.A.D. FACILITY

ARCHITECTURAL

A101	First Floor Plan
A102	First Floor Ceiling Plan
A200	Building Elevations
A201	Building Elevations
A300	Building Sections
A301	Building Sections
A310	Facility Office
A600	Door Schedule

STRUCTURAL

S001	Typical Details & General Notes
S101	First Floor Foundation Plan
S102	Unnamed
S201	Sections
S202	Sections
S301	Building Section
S401	Foundation Wall Elevations

LIGHTING

L000	Site Lighting Calculations
L001	Interior Lighting Calculations

SOUND

S100	Screen Wall Plan

ARCHITECT

bh+a

Bargmann Hendrie + Archetype, Inc.
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PROJECT NAME

R.A.D. FACILITY

171 VFW Drive
Rockland, MA 02370

CLIENT

Rockland Station LLC

171 VFW Drive
Rockland, MA 02370

PROJECT TEAM

Structural Engineer
Bolton & DiMartino, Inc
100 Grover Street, Suite 317
Worcester, Ma. 01605
508 756 8972

REVISIONS

DATE

DRAWING TITLE

Cover Sheet

DRAWING INFORMATION

REGISTERED ARCHITECT
EDMUND ANTHONY SEMINIAN
No. 6632
BOSTON MA
COMMONWEALTH OF MASSACHUSETTS

October 14, 2025
DATE OF ISSUE

Revised Site Plan
DESCRIPTION

SCALE

Author
DRAWN BY

3515
PROJECT #

revit.rvt
FILE NAME

DRAWING NUMBER

A000

V.2.1

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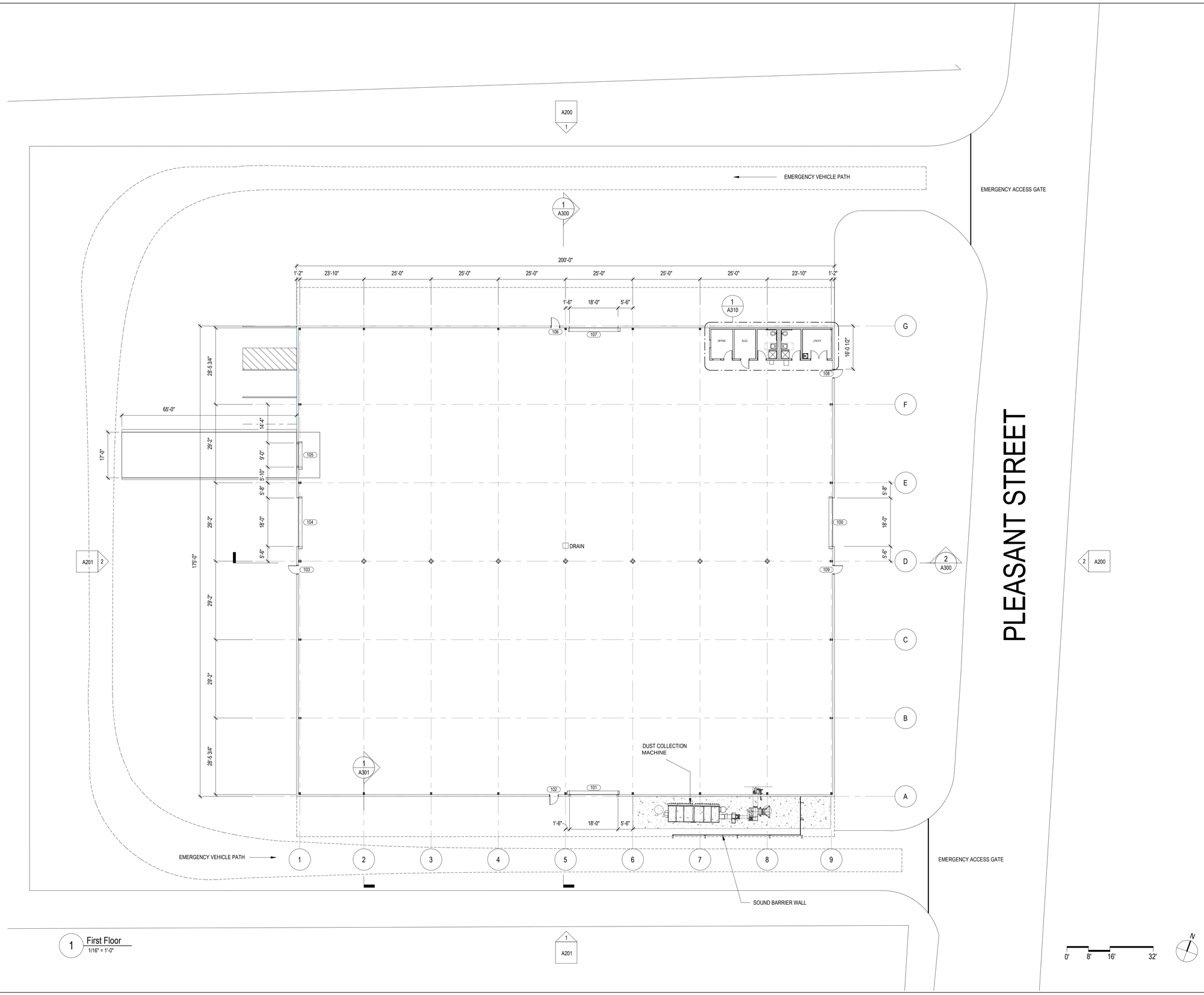

1 First Floor
1/16" = 1'-0"

1 A201

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PROJECT NAME

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REVISIONS

DATE

DRAWING TITLE

First Floor Plan

DRAWING INFORMATION

REGISTERED ARCHITECT
THOMAS ANTHONY BOMPLATA
No. 6632
BOSTON MA
COMMONWEALTH OF MASSACHUSETTS

October 14, 2025
DATE OF ISSUE

Revised Site Plan
DESCRIPTION

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PROJECT #	FILE NAME

DRAWING NUMBER

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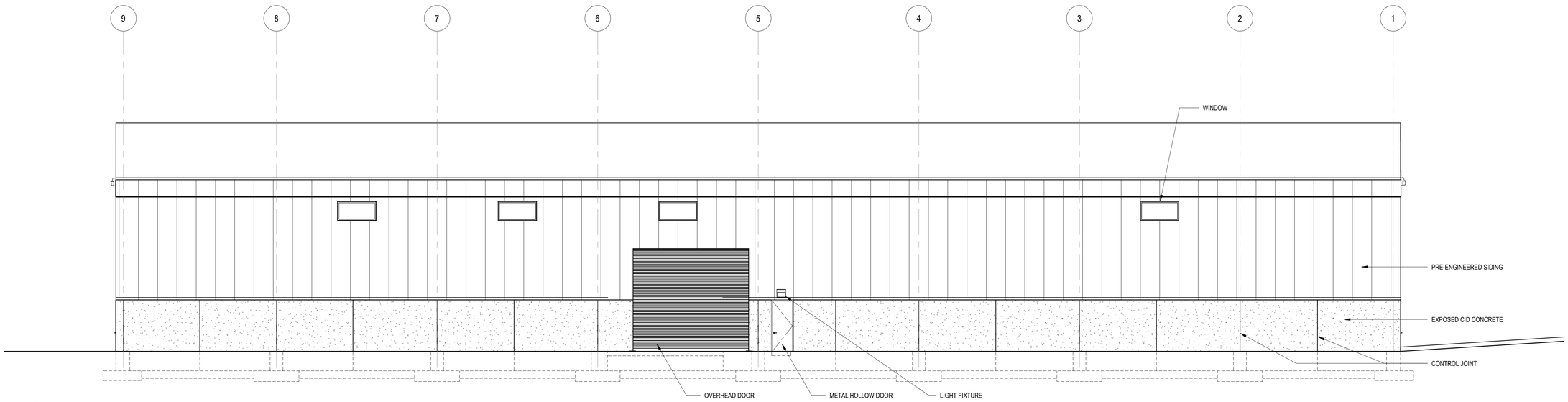
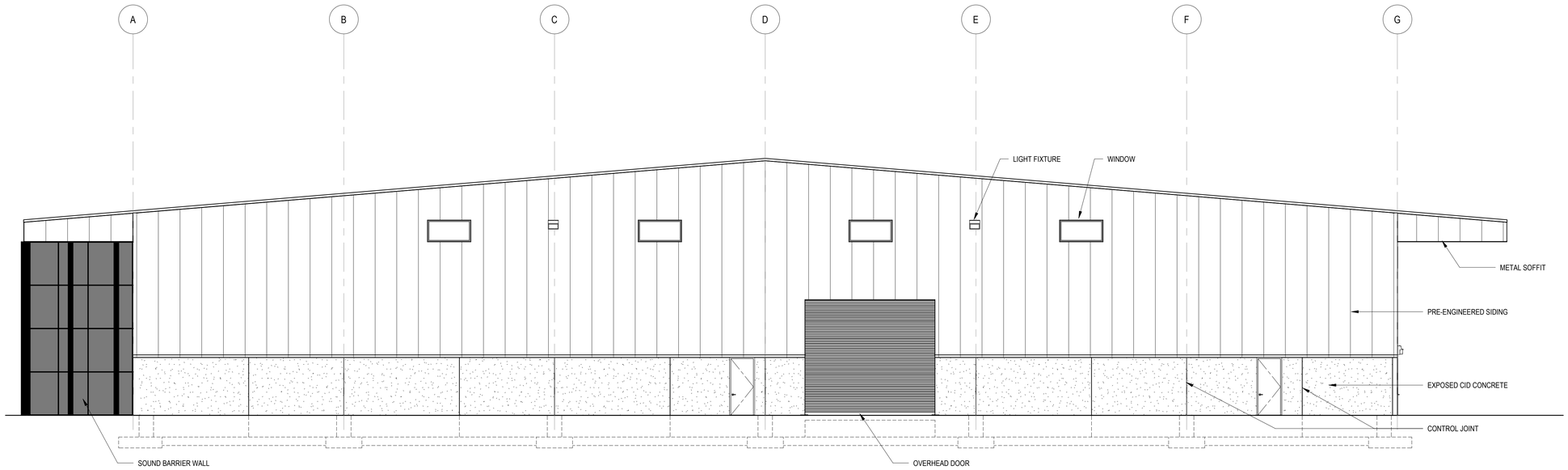


1 North Elevation
1/8" = 1'-0"



2 East Elevation
1/8" = 1'-0"

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PROJECT NAME
R.A.D. FACILITY

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CLIENT
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PROJECT TEAM

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REVISIONS

DATE

DRAWING TITLE
Building Elevations

DRAWING INFORMATION

REGISTERED ARCHITECT
THOMAS ANTHONY KOMLOSY
No. 6632
BOSTON MA
COMMONWEALTH OF MASSACHUSETTS

October 14, 2025
DATE OF ISSUE
Revised Site Plan
DESCRIPTION

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PROJECT #	FILE NAME

DRAWING NUMBER
A200

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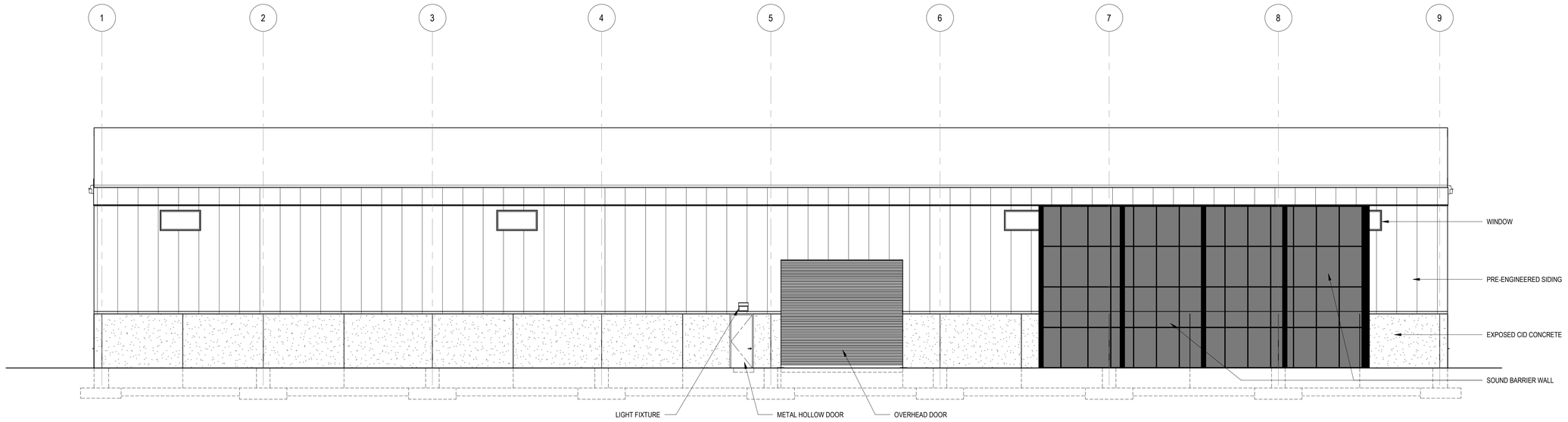
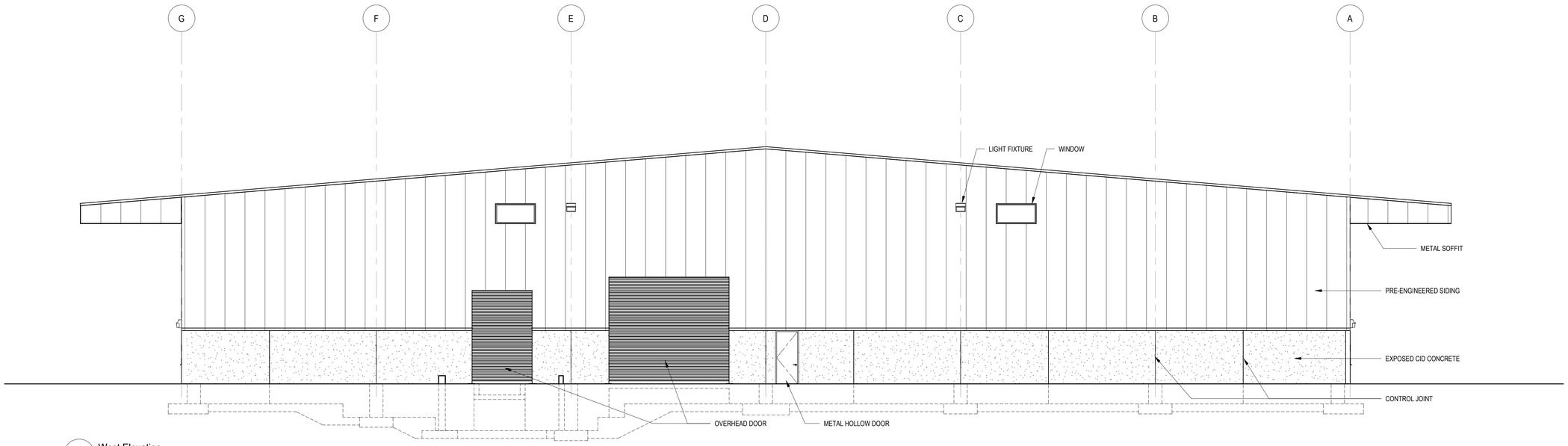


1 South Elevation
1/8" = 1'-0"



2 West Elevation
1/8" = 1'-0"

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PROJECT NAME

R.A.D. FACILITY

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CLIENT

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REVISIONS

DATE

DRAWING TITLE

Building Elevations

DRAWING INFORMATION

REGISTERED ARCHITECT
THOMAS ANTHONY ADAMLAVO
No. 8632
BOSTON MA
COMMONWEALTH OF MASSACHUSETTS

October 14, 2025
DATE OF ISSUE
Revised Site Plan
DESCRIPTION

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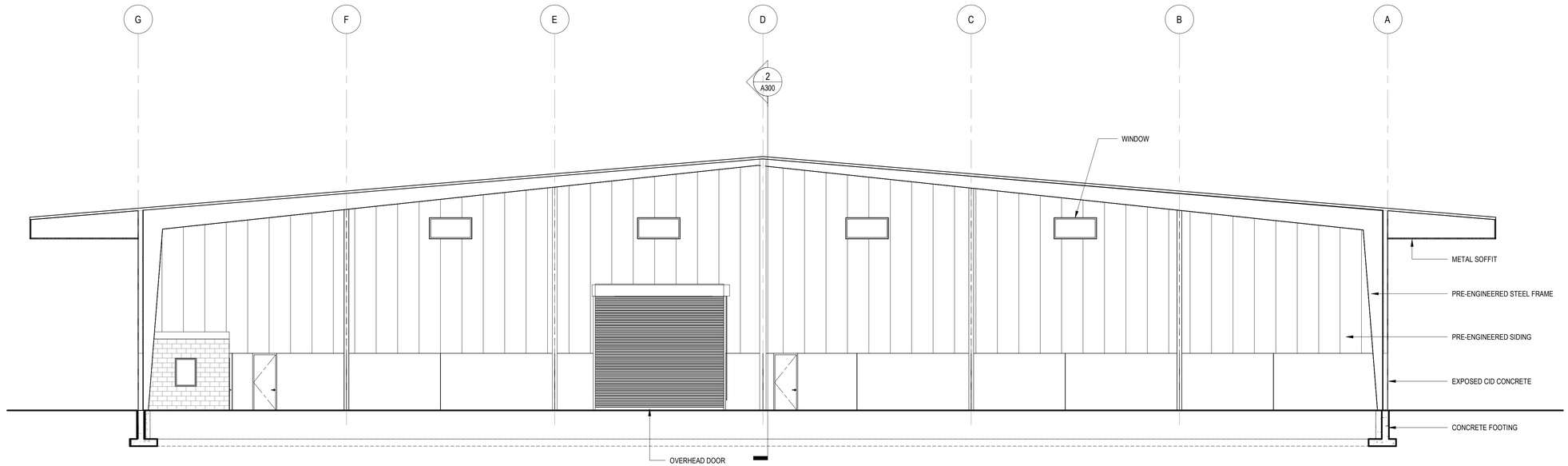
PROJECT #	FILE NAME

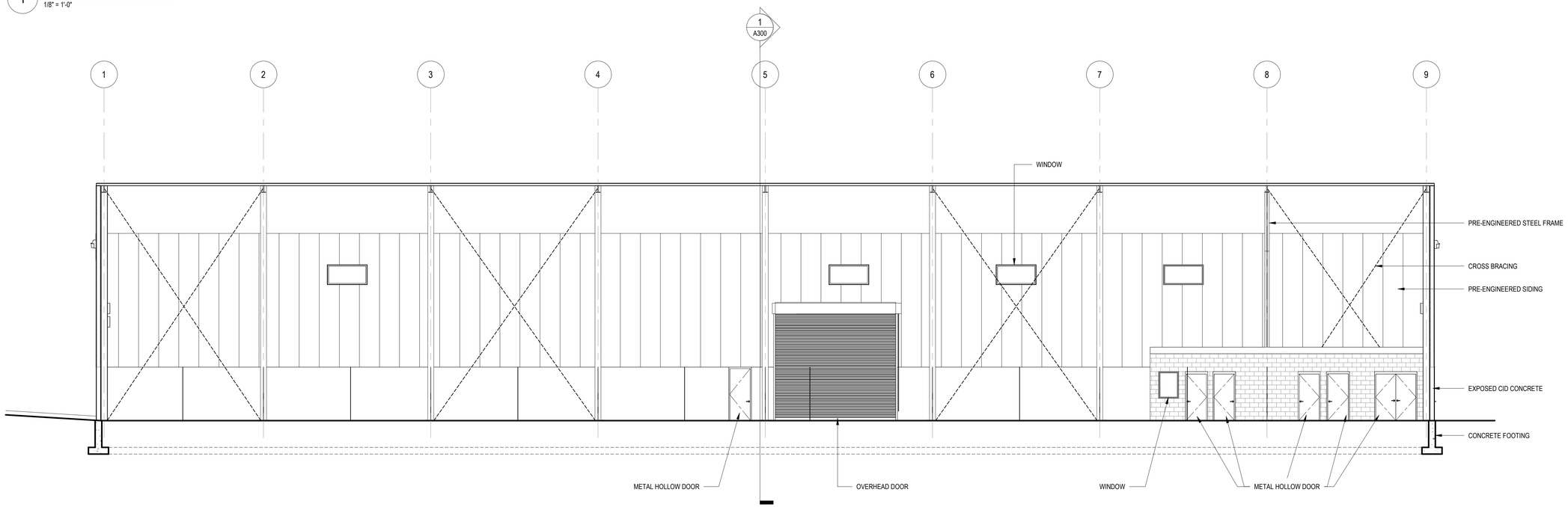
DRAWING NUMBER

A201

 V.2.1



1 Section 1
1/8" = 1'-0"



2 Section 2
1/8" = 1'-0"

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PROJECT NAME
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Rockland Station LLC
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PROJECT TEAM

Structural Engineer
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508 756 8972

REVISIONS

DATE

DRAWING TITLE
Building Sections

DRAWING INFORMATION

REGISTERED ARCHITECT
THOMAS ANTHONY SCARLATA
No. 6632
BOSTON MA
COMMONWEALTH OF MASSACHUSETTS

August 16, 2024
DATE OF ISSUE

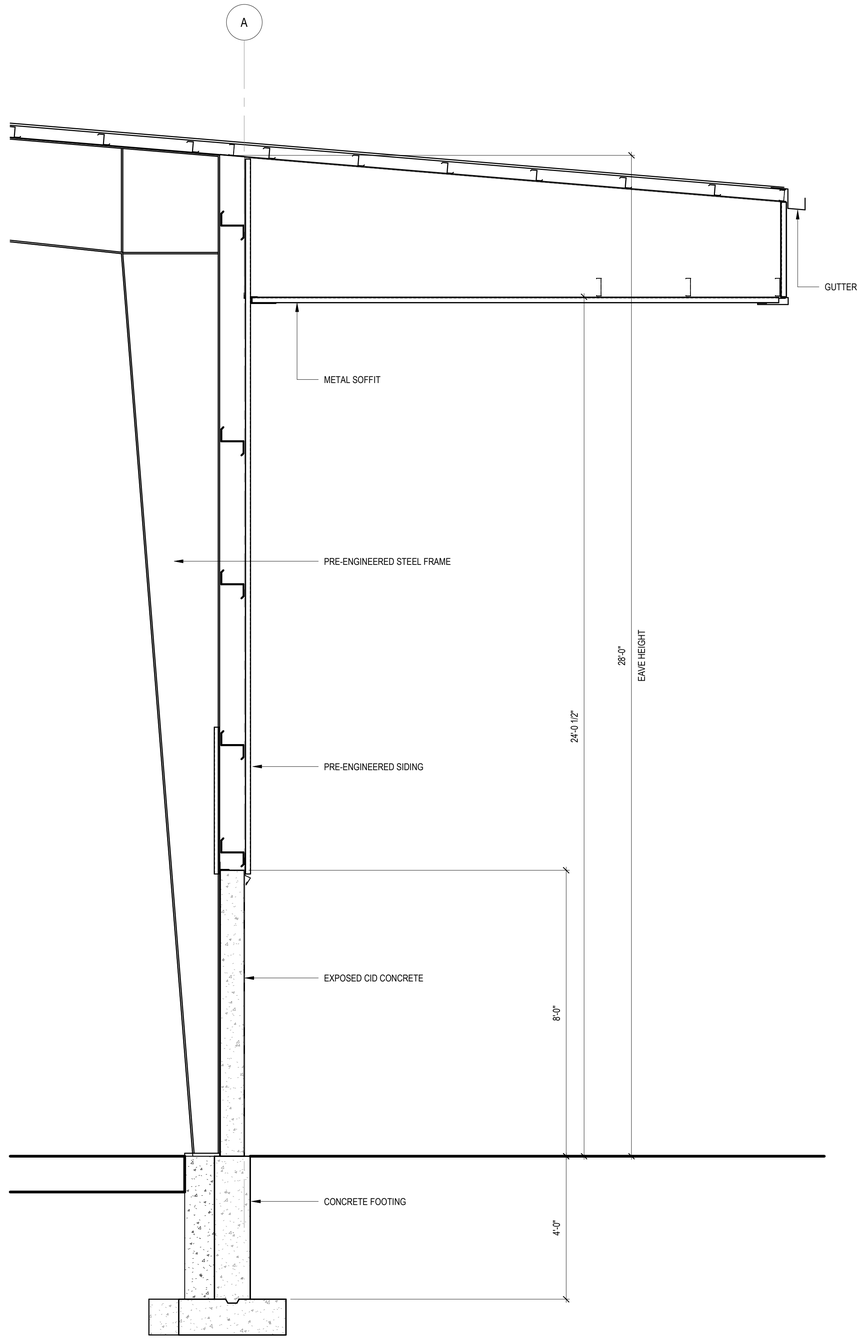
Schematic Design
DESCRIPTION

1/8" = 1'-0" | Author
SCALE | DRAWN BY

3515 | revit.rvt
PROJECT # | FILE NAME

DRAWING NUMBER
A300

 V.2.1



1 Wall Section
1/2" = 1'-0"

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PROJECT NAME

R.A.D. FACILITY

171 VFW Drive
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CLIENT

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Rockland, MA 02370

PROJECT TEAM

Structural Engineer
Bolton & DiMartino, Inc
100 Grover Street, Suite 317
Worcester, Ma. 01605
508 756 8972

REVISIONS

DATE

DRAWING TITLE

Building Sections

DRAWING INFORMATION

REGISTERED ARCHITECT
THOMAS ANTHONY SCARLATA
No. 9632
BOSTON MA
COMMONWEALTH OF MASSACHUSETTS

August 16, 2024
DATE OF ISSUE

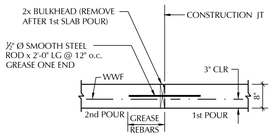
Schematic Design
DESCRIPTION

1/2" = 1'-0" — SCALE
Author — DRAWN BY
3515 — PROJECT #
revit.rvt — FILE NAME

DRAWING NUMBER

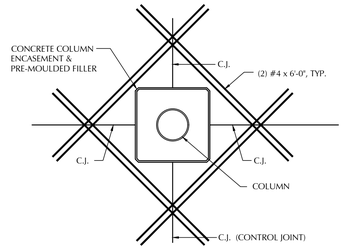
A301

 V.2.1



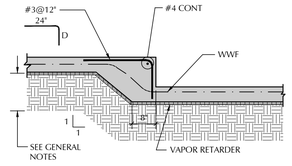
SEE PLANS FOR LOCTION. ALLOW MIN 36 HOURS BETWEEN ADJACENT POURS.

TYPICAL SLAB ON GRADE CONSTRUCTION JOINT

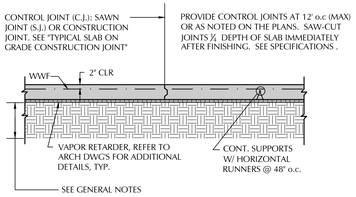


C.J. = CONSTRUCTION JOINT OR SAWN JOINT

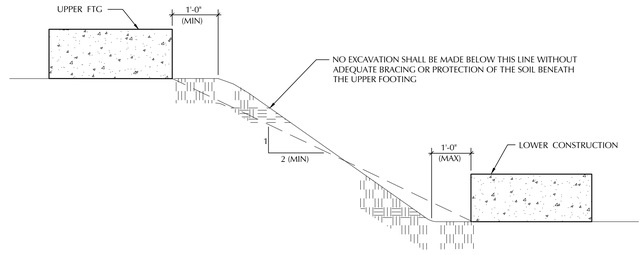
TYPICAL COLUMN AT SLAB ON GRADE



TYPICAL DEPRESSION IN SLAB ON GRADE



TYPICAL SLAB ON GRADE DETAIL



SLOPE BETWEEN FOOTINGS

ABBREVIATIONS

ADD'L	ADDITIONAL
ALT	ALTERNATE
A.B.	ANCHOR BOLT
ARCH	ARCHITECT
B.P.	BASE PLATE
B	BOTTOM
BEW	BOTTOM EACH WAY
BM	BEAM
BOF	BOTTOM OF FOOTING
BRG	BEARING
BS	BOTH SIDES
C	POSITIVE CAMBER
CIP	CAST-IN-PLACE
COL	COLUMN
COMP DK	COMPOSITE DECK
CONC	CONCRETE
CMU	CONCRETE MASONRY UNIT
C.J.	CONTROL JOINT
CL	CENTER LINE
CONST JT	CONSTRUCTION JOINT
CONT	CONTINUOUS
DIA	DIAMETER
DWLS	DOWELS
DWG	DRAWING
EA	EACH
EF	EACH FACE
EW	EACH WAY
EL OR ELEV	ELEVATION
E.J.	EXPANSION JOINT
EQ	EQUAL
FF	FAR FACE
FDN	FOUNDATION
FTG	FOOTING
H	HORIZONTAL
HSS	HOLLOW STRUCTURAL SHAPE
IF	INSIDE FACE
LLV	LONG LEG VERTICAL
LW	LONG WAY
MAX	MAXIMUM
M.C.	MOMENT CONNECTION
MECH	MECHANICAL
M.M.	METAL FABRICATIONS (05 50 00)
MIN	MINIMUM
NF	NEAR FACE
N-S	NON-SHRINK
NTS	NOT TO SCALE
O.C.	ON CENTER
PL	PLATE
REINF	REINFORCING
SC	SHEAR CONNECTOR
SLV	SHORT LEG VERTICAL
SOG	SLAB ON GRADE
SW	SHORT WAY
S.S.	STAINLESS STEEL
STIFF	STIFFENER
STL	STEEL
S.J.	SAWN JOINT
T	TOP
TOC	TOP OF CONCRETE
TOF	TOP OF FOOTING
TOW	TOP OF WALL
TSL	TOP OF SLAB
TST	TOP OF STEEL
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
V	VERTICAL
WWF	WELDED WIRE FABRIC
W/	WITH
W.P.	WORKING POINT

DESIGN LOADS

BUILDING CODE: MASSACHUSETTS STATE BUILDING CODE, NINTH EDITION

OCCUPANCY LOADS:
HEAVY MANUFACTURING 250 PSF

ROOF LOAD:
LIVE LOAD 20 PSF
SNOW LOAD (SEE BELOW)

SNOW LOAD
GROUND SNOW LOAD, P_g (ROCKLAND, MA) 35 PSF
FLAT ROOF SNOW LOAD, P_f 30 PSF
EXPOSURE FACTOR, C_e = 1.0
THERMAL FACTOR, C_t = 1.0
IMPORTANCE FACTOR (OCCUPANCY CATEGORY III), I_s = 1.0
SNOW DRIFT IN ACCORDANCE WITH CODE

WIND LOADS
BASIC WIND SPEED (ROCKLAND, MA), V_{ULT} = 132 MPH
BUILDING CATEGORY = II
IMPORTANCE FACTOR, I_w = 1.0
EXPOSURE CATEGORY = B

SEISMIC LOADS
PER MASSACHUSETTS STATE BUILDING CODE, NINTH EDITION
SYSTEM 1: PRE-ENGINEERED STEEL STRUCTURE
SYSTEM TO BE DESIGNED BY MASSACHUSETTS REGISTERED ENGINEER AND SUBMITTED FOR RECORD PRIOR TO CONSTRUCTION
SEISMIC DESIGN CATEGORY = B
SITE CLASS = D (UNKNOWN)
IMPORTANCE FACTOR, I_e = 1.0
LOCATION FACTORS: ROCKLAND, MA
S_s = 0.198
S_1 = 0.065

FOUNDATION NOTES

F1
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

F2
FOUNDATIONS DESIGNED FOR A MAXIMUM ALLOWABLE NET BEARING PRESSURE OF 4.0 KSF. OWNER'S GEOTECHNICAL ENGINEER TO VERIFY EXISTING SOILS ARE CAPABLE OF SUPPORTING DESIGN PRESSURE, OR PROVIDE DIRECTION FOR IMPROVING SOIL CONDITIONS TO SUPPORT DESIGN PRESSURE.

F3
ELEVATIONS FOR BOTTOM OF FOOTINGS AS DETERMINED BY THE PLANS ARE ANTICIPATED FOR THE PURPOSE OF ESTIMATION ONLY. FOOTINGS MUST REST ON UNDISTURBED GLACIAL TILL OR COMPACTED STRUCTURAL FILL APPROVED BY THE OWNER'S SOIL ENGINEER FOR THE DESIGN LOAD.

F4
NO FOOTING SHALL HAVE ITS BASE HIGHER THAN THAT OF ANY NEARBY FOOTING OR OTHER EXCAVATION BY MORE THAN HALF THE SHORTEST HORIZONTAL DISTANCE BETWEEN THEM UNLESS OTHERWISE SHOWN ON THE PLANS.

F5
PROVIDE 12" (MIN) OF WELL-COMPACTED, FREELY DRAINING CLEAN GRANULAR FILL APPROVED BY THE OWNER'S SOIL ENGINEER AND VAPOR RETARDER UNDER ALL SLABS ON GRADE. COMPACT SUBGRADE IN ACCORDANCE WITH GEOTECHNICAL ENGINEER'S RECOMMENDATIONS.

F6
DO NOT PLACE FOOTINGS IN WATER OR ON FROZEN GROUND.

F7
DO NOT BACK-FILL AGAINST FOUNDATION WALLS UNTIL LATERAL SUPPORTS, TOP AND BOTTOM, ARE EFFECTIVE AND WALLS ARE ADEQUATELY BRACED. CONCRETE WALLS AND SLABS MUST ATTAIN 28 DAY DESIGN STRENGTH PRIOR TO BACK-FILLING.

F8
THE GLACIAL TILL BEARING SOILS ARE SUSCEPTIBLE TO DISTURBANCE BY FREEZING. SOIL BEARING SURFACES BELOW COMPLETED FOUNDATIONS MUST BE PROTECTED AGAINST FREEZING BEFORE AND AFTER FOUNDATION CONSTRUCTION. IF CONSTRUCTION IS PERFORMED DURING FREEZING WEATHER, FOOTINGS SHOULD BE BACK-FILLED TO A SUFFICIENT DEPTH (UP TO FOUR FEET) AS SOON AS POSSIBLE AFTER THEY ARE CONSTRUCTED. ALTERNATIVELY, INSULATING BLANKETS OR OTHER MEANS MAY BE USED FOR PROTECTION AGAINST FREEZING.

F9
COORDINATE UNDER FLOOR AND PERIMETER DRAIN REQUIREMENTS WITH ARCHITECTURAL, CIVIL, AND PLUMBING DRAWINGS AND THE REQUIREMENTS OF THE OWNER'S SOIL ENGINEER.

F10
COORDINATE PIPING PASSING THROUGH EXTERIOR FOUNDATION WALLS SO PIPING DOES NOT PASS THROUGH OR BELOW WALL FOOTING. STEP DOWN FOOTING AS REQUIRED SO PIPING PASSES THROUGH WALL ABOVE FOOTING.

F11
USE SIDE FORMS FOR ALL FOOTINGS. CLEAN REINFORCEMENT IMMEDIATELY PRIOR TO CONCRETE PLACEMENT. PLACE CONCRETE FOR EACH FOOTING IN CONTINUOUS POUR.

GENERAL NOTES

CONCRETE NOTES

C1
REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

C2
CONCRETE STRENGTHS

CONCRETE	STRENGTH AT 28 DAYS
FOOTINGS	3,000 PSI
FOUNDATION WALLS, PIERS, & TIE BEAMS	4,000 PSI
SLABS-ON-GRADE	3,500 PSI
ALL OTHER CONCRETE	4,000 PSI
ALL CONCRETE FOR EXTERIOR WORK (AIR ENTRAINED)	4,000 PSI

C3
ALL WORK SHALL CONFORM TO THE BUILDING CODE REQUIREMENTS FOR REINFORCED CONCRETE OF THE AMERICAN CONCRETE INSTITUTE AND THE MASSACHUSETTS STATE BUILDING CODE, NINTH EDITION. IN CASE OF CONFLICT, THE MASSACHUSETTS STATE BUILDING CODE SHALL GOVERN.

C4
MINIMUM CONCRETE COVER FOR REINFORCEMENT:

	CONCRETE COVER
CONCRETE PLACED AGAINST EARTH	3"
FORMED CONCRETE EXPOSED TO EARTH, WEATHER	2"
FORMED CONCRETE NOT EXPOSED TO EARTH, WEATHER	1½"
SUSPENDED CONCRETE SLABS, TOP BARS	½"
SUSPENDED CONCRETE SLABS, BOTTOM BARS	1"

C5
CONTROLLED CONCRETE SHALL BE PROPORTIONED, MIXED, AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE CONTROL ENGINEER.

C6
ALL CONCRETE (U.O.N.) SHALL BE NORMAL WEIGHT (145 PCF).

C7
REINFORCING MATERIALS
TYPICAL BARS ASTM A 615-60
WELDED WIRE FABRIC ASTM A 185

C8
WELDED WIRE FABRIC SHALL BE SUPPLIED IN FLAT SHEETS.

C9
PROVIDE TENSION LAP SPLICE OF 40 DIAMETERS, UNLESS OTHERWISE NOTED. PROVIDE DOWELS TO MATCH MAIN REINFORCEMENT SIZE AND SPACING, UNLESS OTHERWISE NOTED.

C10
PROVIDE KEY AND #4 x 3'-0" LONG @16" O.C. DOWELS AT CONSTRUCTION JOINTS UNLESS OTHERWISE SHOWN ON THE PLANS. SEE "TYPICAL SLAB ON GRADE DETAIL" FOR DOWELS AT CONSTRUCTION JOINTS IN SLABS ON GRADE.

C11
ALL NECESSARY SLEEVES AND INSERTS ARE TO BE FURNISHED AND PLACED BY THE VARIOUS TRADES IN FULL COOPERATION WITH THE CONTRACTOR.

C12
PROVIDE #4@12" HORIZONTAL AND VERTICAL, EACH FACE, IN ALL CONCRETE WALLS AND 2- #6 CONTINUOUS ON TOP AND BOTTOM OF CONCRETE WALLS, UNLESS OTHERWISE INDICATED ON THE DRAWINGS.

C13
STRUCTURAL DRAWINGS SHALL BE USED IN CONJUNCTION WITH THE ARCHITECTURAL, HVAC, PLUMBING, AND ELECTRICAL DRAWINGS AND THESE DRAWINGS SHALL BE REFERRED TO FOR SIZES AND LOCATIONS OF OPENINGS, DENTS, PIPES, INSERTS, BOXES, AND HANGERS.

C14
CALCIUM CHLORIDE SHALL NOT BE USED IN ANY CONCRETE.

C15
PIPES AND SLEEVES EMBEDDED IN CONCRETE SHALL NOT BE LARGER IN OUTSIDE DIAMETER THAN ONE-FOURTH THE THICKNESS OF THE SLAB, WALL, OR BEAM IN WHICH THEY ARE EMBEDDED, NOR SHALL THEY BE PLACED CLOSER THAN THREE DIAMETERS OR BE LOCATED SO AS TO IMPAIR THE STRENGTH OF THE CONCRETE.

C16
SAWCUT SLABS IN PATTERN SHOWN ON PLANS AND TYPICAL DETAILS. START SAWCUTTING AS SOON AS SAW WILL NOT RAVEL EDGES OR DISLODGE AGGREGATE, BUT IN NO CASE MORE THAN 12 HOURS AFTER THE SLAB IS PLACED.

MISCELLANEOUS NOTES

M1
THE INTENT OF THE STRUCTURAL DRAWINGS IS TO SHOW THE MAIN STRUCTURAL FEATURES AND STRUCTURAL DESIGN FOR THE PROJECT. ARCHITECTURAL DETAILS ARE SHOWN INCIDENTALLY ONLY AND NOT COMPLETELY. THEREFORE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS MUST BE USED IN CONJUNCTION WITH STRUCTURAL DRAWINGS DURING ALL PHASES OF CONSTRUCTION.

M2
CONSULT THE ARCHITECTURAL, MECHANICAL, PLUMBING AND ELECTRICAL DRAWINGS FOR LOCATION AND SIZE OF CHASES, INSERTS, OPENINGS, SLEEVES, DEPRESSIONS AND OTHER PROJECT REQUIREMENTS. COMBINE THE REQUIREMENTS INTO THE SHOP DRAWINGS COVERING THE WORK. PROVIDE STRUCTURAL FRAMING PER TYPICAL DETAILS AS REQUIRED AT FLOOR AND ROOF OPENINGS WHERE STRUCTURAL FRAMING IS NOT SHOWN.

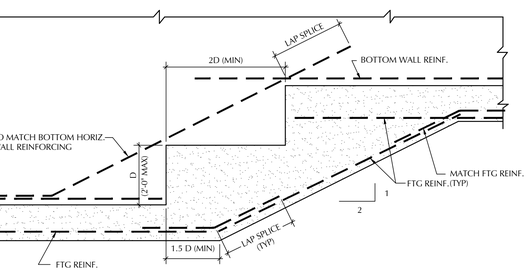
M3
THE STRUCTURE IS DESIGNED TO FUNCTION AS A UNIT UPON COMPLETION OF CONSTRUCTION OF THE PROJECT AND THEN, ONLY TO SUPPORT THE DESIGN LOADS INDICATED. THE CONTRACTOR IS RESPONSIBLE FOR MEANS, METHODS AND SEQUENCE OF CONSTRUCTION AND FOR THE ADEQUACY OF THE STRUCTURE TO SUPPORT LOADS OCCURRING DURING CONSTRUCTION. FURNISH ALL TEMPORARY BRACING, SHORING, AND/OR SUPPORT AS REQUIRED.

M4
CHECK ALL DIMENSIONS AGAINST THE REQUIREMENTS OF OTHER CONTRACT DOCUMENTS. RESOLVE APPARENT CONSISTENCIES IN THE CONTRACT DOCUMENTS WITH THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

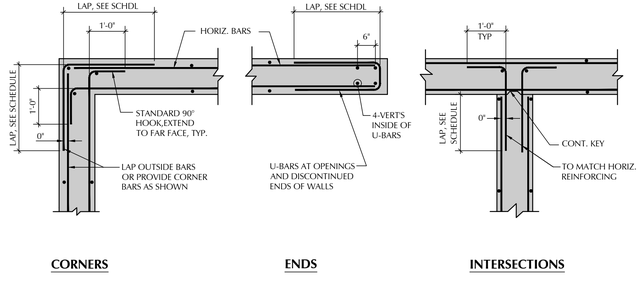
M5
SHOW ALL OPENINGS THROUGH STRUCTURAL MEMBERS ON THE SHOP DRAWINGS SUBMITTED FOR REVIEW. OPENINGS WHICH ARE NOT SHOWN ON THE STRUCTURAL DRAWINGS ARE SUBJECT TO REVIEW AND ACCEPTANCE AND SHALL BE CLEARLY INDICATED FOR REVIEW AND ACCEPTANCE ON THE SHOP DRAWINGS.

M6
WHEREVER THERE IS CONFLICT BETWEEN DETAILS OR TWO DETAILS APPLYING TO THE SAME CONDITION, THE MOST RESTRICTIVE, AS DETERMINED BY THE ENGINEER SHALL APPLY.

M7
PROMPTLY NOTIFY THE ENGINEER OF ANY STRUCTURAL MEMBERS CALLED OUT ON THE ARCHITECTURAL, MECHANICAL, PLUMBING, OR ELECTRICAL DRAWINGS THAT IS NOT IDENTIFIED ON THE STRUCTURAL DRAWINGS. DESIGN OF THESE MEMBERS WILL BE PROVIDED AS NECESSARY BY THE STRUCTURAL ENGINEER UPON NOTIFICATION.

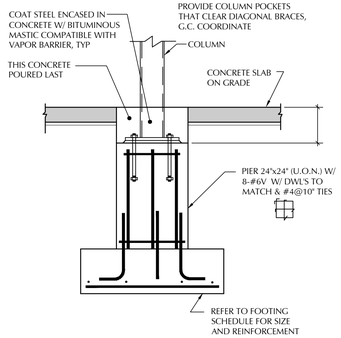


TYPICAL STEPPED WALL FOOTING DETAIL

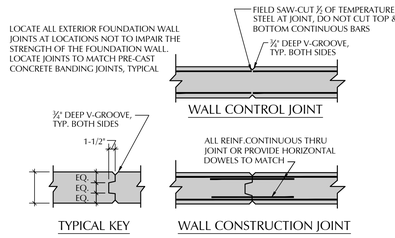


CORNERS **ENDS** **INTERSECTIONS**

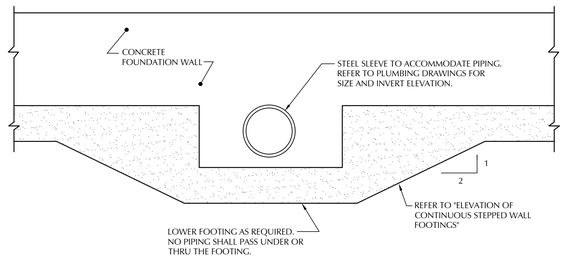
PLAN OF HORIZONTAL REINFORCING OF CONCRETE WALLS AND GRADE BEAMS



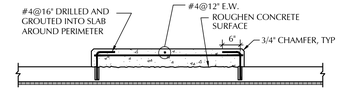
TYPICAL PIER FOOTING DETAIL



TYPICAL CONSTR./CONTROL JOINTS IN CONCRETE FOUNDATION WALLS



TYPICAL FOUNDATION WALL PIPE PENETRATION DETAILS



GENERAL CONTRACTOR TO COORDINATE SIZE AND LOCATION OF ALL HOUSEKEEPING PADS. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL INFO. COORDINATE ANCHOR BOLT REQUIREMENTS.

TYPICAL HOUSEKEEPING PAD

ARCHITECT
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PROJECT NAME
RAD FACILITY

CLIENT

PROJECT TEAM

STRUCTURAL ENGINEER
Bolton & DiMartino, Inc.
100 Grover Street, Suite 317
Worcester MA 01605
508.756.8972

REVISIONS
DATE

DRAWING TITLE
Typical Details & General Notes

DRAWING INFORMATION

COMMONWEALTH OF MASSACHUSETTS
CHRISTOPHER J. TUTUS
STRUCTURAL
NO. 45757
REGISTERED PROFESSIONAL ENGINEER

October 21, 2024
DATE OF ISSUE

Construction Documents
DESCRIPTION

N.T.S.
SCALE

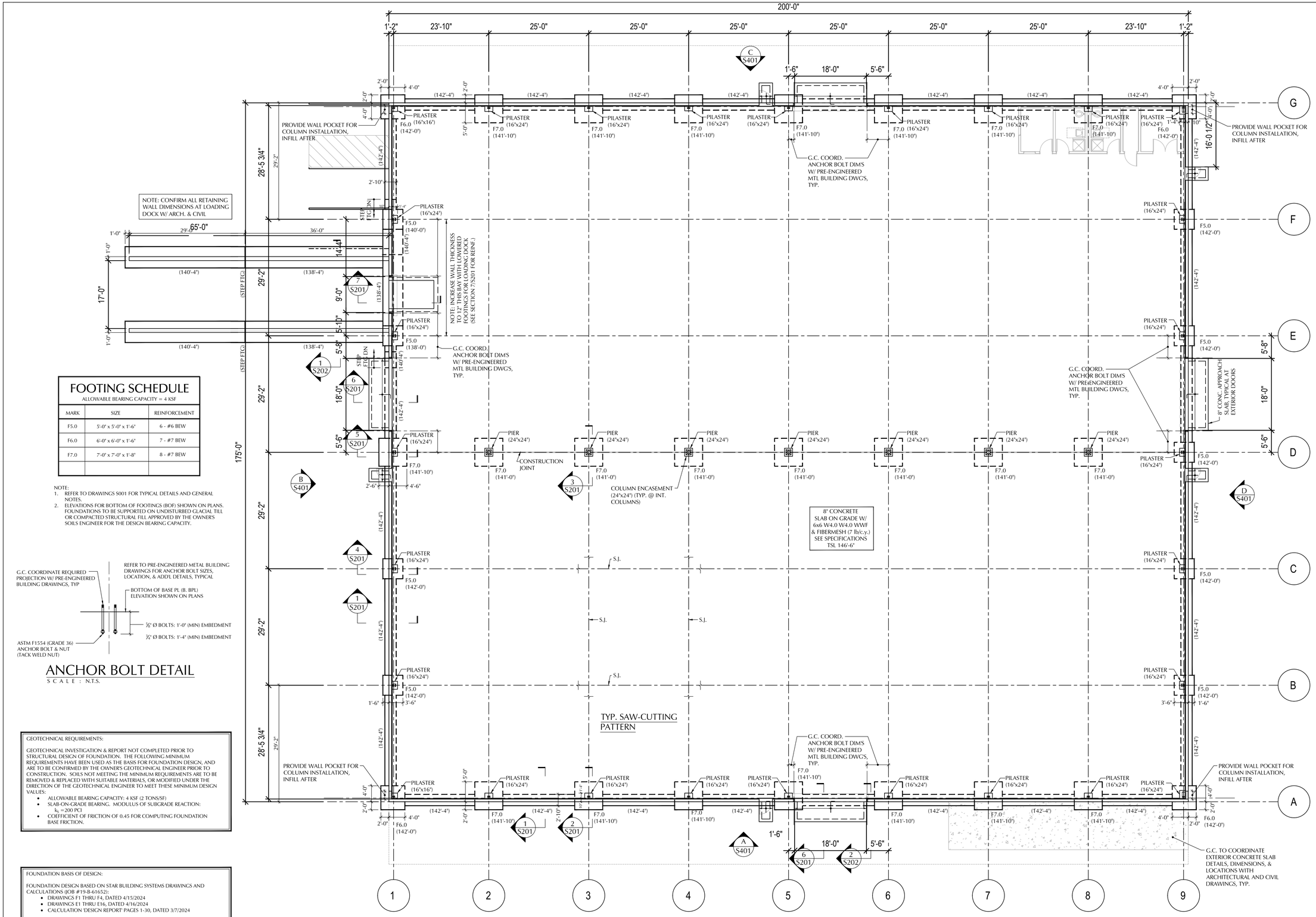
CJT
DRAWN BY

3515
PROJECT #

FILE NAME

DRAWING NUMBER
S001

V.2.1



FOOTING SCHEDULE

ALLOWABLE BEARING CAPACITY = 4 KSF

MARK	SIZE	REINFORCEMENT
F5.0	5'-0" x 5'-0" x 1'-6"	6 - #6 BEW
F6.0	6'-0" x 6'-0" x 1'-6"	7 - #7 BEW
F7.0	7'-0" x 7'-0" x 1'-8"	8 - #7 BEW

NOTE:
1. REFER TO DRAWINGS S001 FOR TYPICAL DETAILS AND GENERAL NOTES.
2. ELEVATIONS FOR BOTTOM OF FOOTINGS (BOF) SHOWN ON PLANS. FOUNDATIONS TO BE SUPPORTED ON UNDISTURBED GLACIAL TILL OR COMPACTED STRUCTURAL FILL APPROVED BY THE OWNER'S SOILS ENGINEER FOR THE DESIGN BEARING CAPACITY.

ANCHOR BOLT DETAIL

SCALE : N.T.S.

GEOTECHNICAL REQUIREMENTS:

GEOTECHNICAL INVESTIGATION & REPORT NOT COMPLETED PRIOR TO STRUCTURAL DESIGN OF FOUNDATION. THE FOLLOWING MINIMUM REQUIREMENTS HAVE BEEN USED AS THE BASIS FOR FOUNDATION DESIGN, AND ARE TO BE CONFIRMED BY THE OWNER'S GEOTECHNICAL ENGINEER PRIOR TO CONSTRUCTION. SOILS NOT MEETING THE MINIMUM REQUIREMENTS ARE TO BE REMOVED & REPLACED WITH SUITABLE MATERIALS, OR MODIFIED UNDER THE DIRECTION OF THE GEOTECHNICAL ENGINEER TO MEET THESE MINIMUM DESIGN VALUES:

- ALLOWABLE BEARING CAPACITY: 4 KSF (2 TONS/SF)
- SLAB-ON-GRADE BEARING. MODULUS OF SUBGRADE REACTION: k_0 = 200 PCI
- COEFFICIENT OF FRICTION OF 0.45 FOR COMPUTING FOUNDATION BASE FRICTION.

FOUNDATION BASIS OF DESIGN:

FOUNDATION DESIGN BASED ON STAR BUILDING SYSTEMS DRAWINGS AND CALCULATIONS (JOB #19-B-61652):

- DRAWINGS F1 THRU F4, DATED 4/15/2024
- DRAWINGS E1 THRU E16, DATED 4/16/2024
- CALCULATION 'DESIGN REPORT' PAGES 1-30, DATED 3/7/2024

NOTIFY S.E.R., IN WRITING, FOR ANY CHANGES TO BUILDING LAYOUT OR DESIGN LOAD CHANGES.

ARCHITECT

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PROJECT NAME

RAD FACILITY

CLIENT

PROJECT TEAM

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REVISIONS

DATE

DRAWING TITLE

First Floor Foundation Plan

DRAWING INFORMATION

COMMONWEALTH OF MASSACHUSETTS
CHRISTOPHER J. TUTIS
STRUCTURAL
NO. 49574
REGISTERED PROFESSIONAL ENGINEER

October 21, 2024
DATE OF ISSUE

Construction Documents
DESCRIPTION

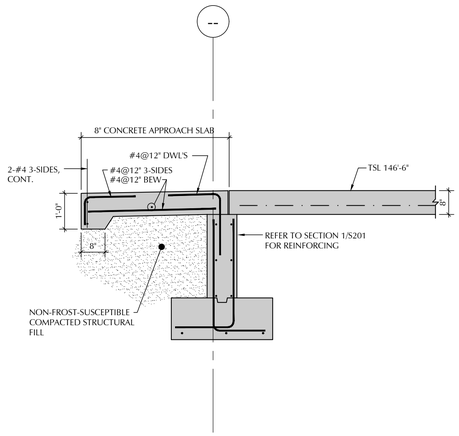
3/32" = 1'-0" SCALE | CJT DRAWN BY

3515 PROJECT # | FILE NAME

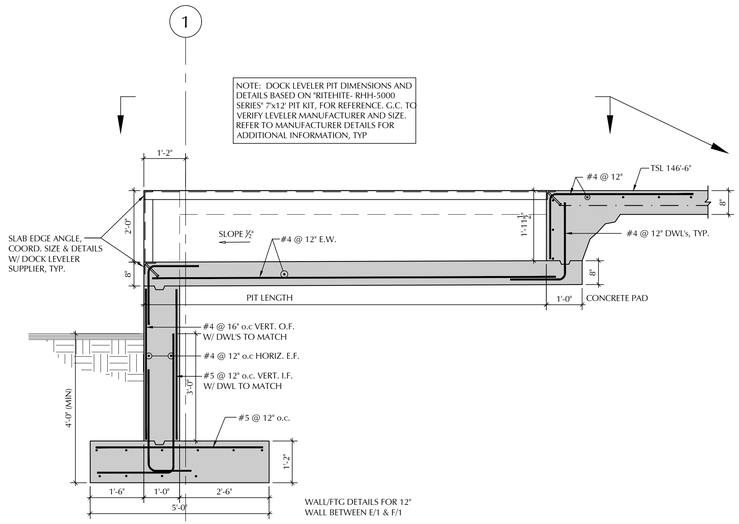
DRAWING NUMBER

S101

V.2.1



SECTION 6 S201
SCALE: ½" = 1'-0"



SECTION 7 S201
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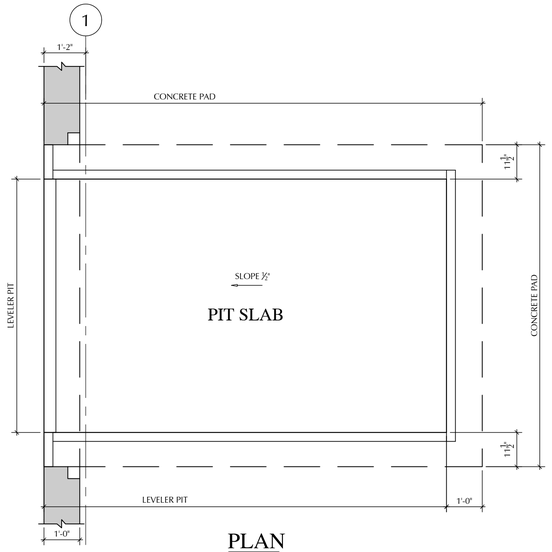
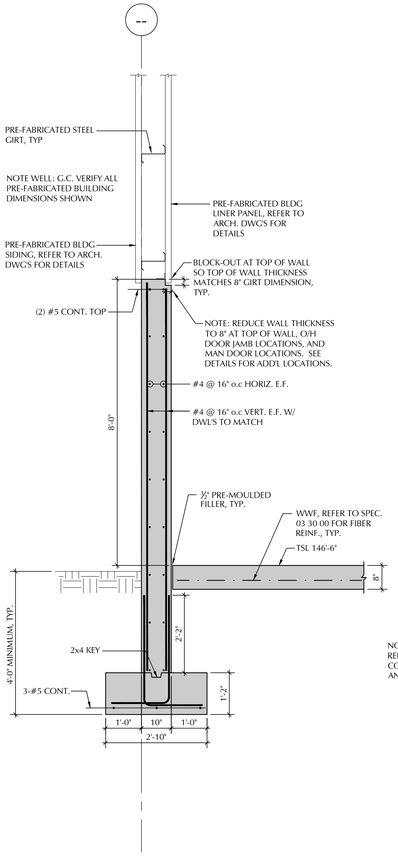


PLAN
REFER TO ARCH. DWG's FOR ALL DIMENSIONS



SECTION 1 S201
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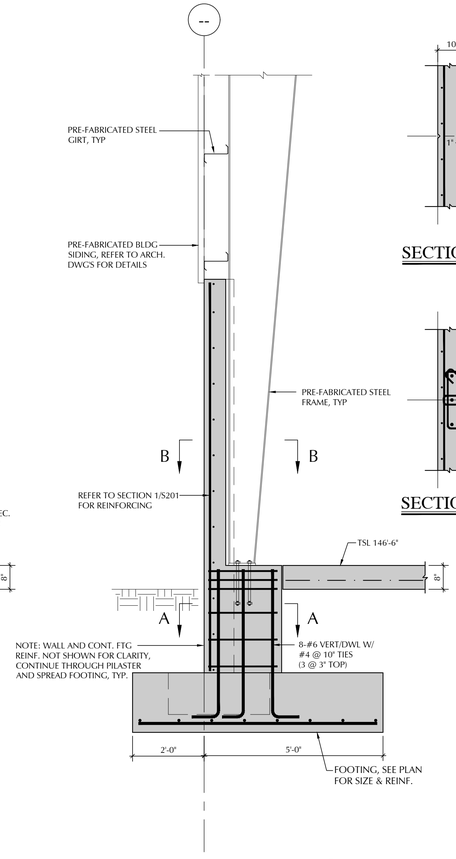

SECTION 2 S201
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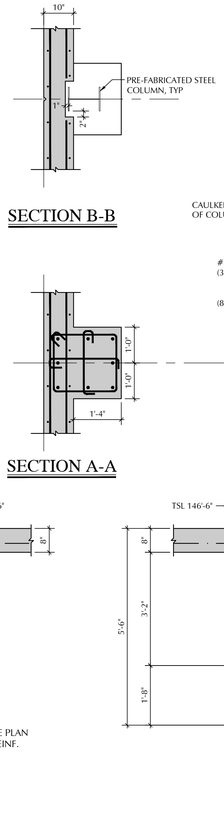

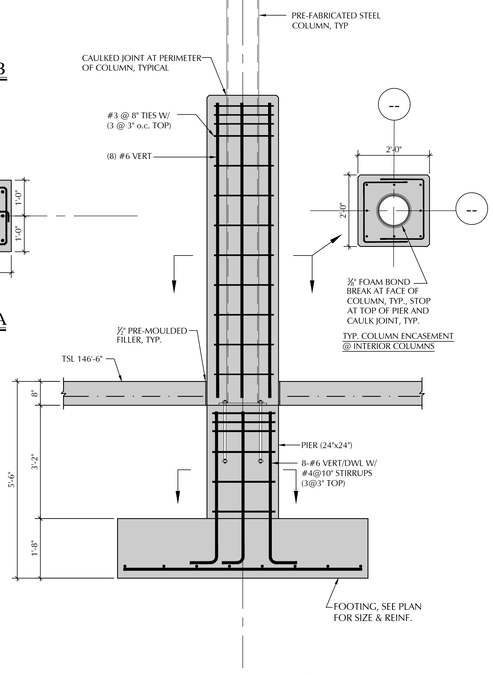

SECTION 3 S201
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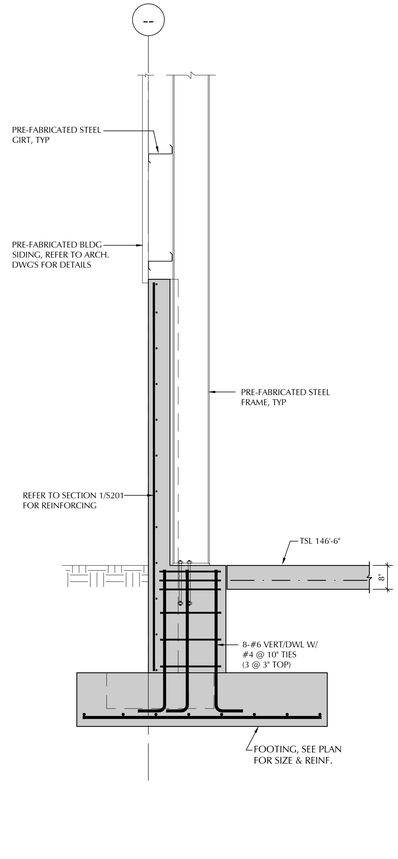
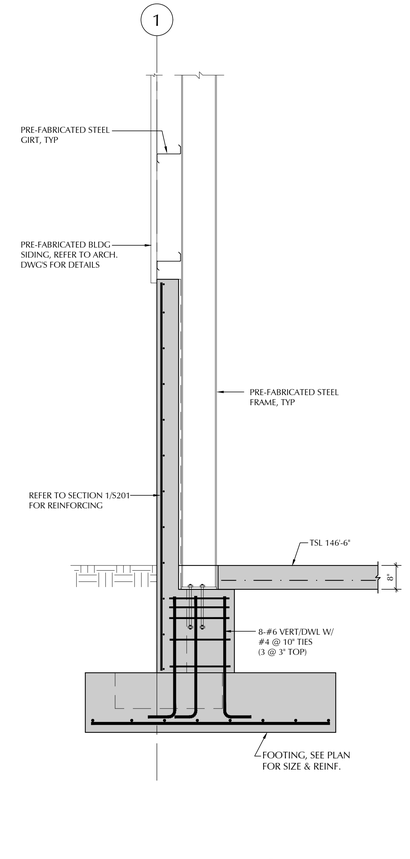


SECTION 4 S201
SCALE: ½" = 1'-0"



SECTION 5 S201
SCALE: ½" = 1'-0"

ARCHITECT
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PROJECT NAME
RAD FACILITY

CLIENT

PROJECT TEAM

STRUCTURAL ENGINEER
Bolton & DiMartino, Inc.
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REVISIONS

DATE

DRAWING TITLE
Sections

DRAWING INFORMATION

COMMONWEALTH OF MASSACHUSETTS
CHRISTOPHER J. TUTUS
STRUCTURAL
NO. 46557
REGISTERED PROFESSIONAL ENGINEER

October 21, 2024
DATE OF ISSUE

Construction Documents
DESCRIPTION

AS NOTED
SCALE

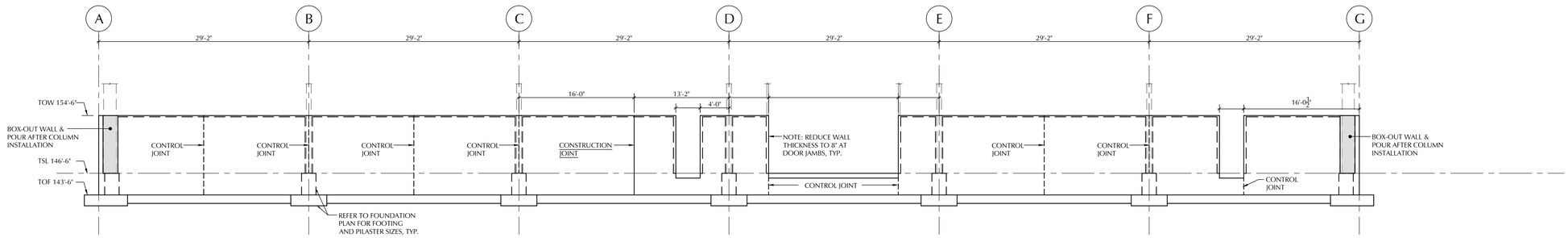
CJT
DRAWN BY

3515
PROJECT #

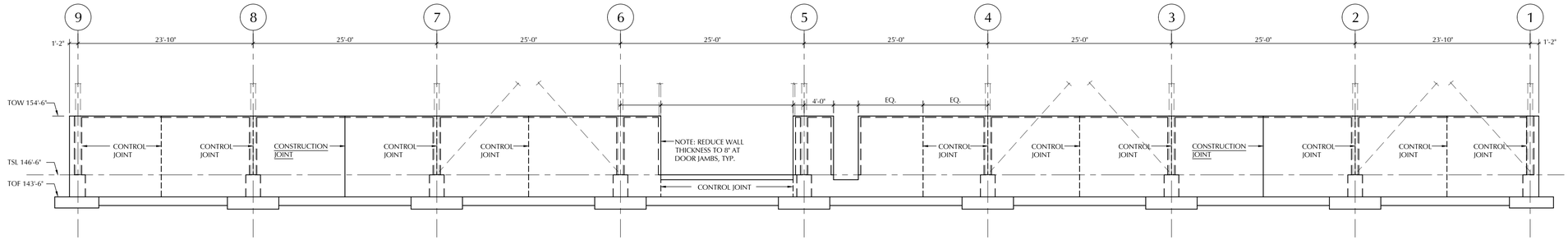
FILE NAME

DRAWING NUMBER
S201

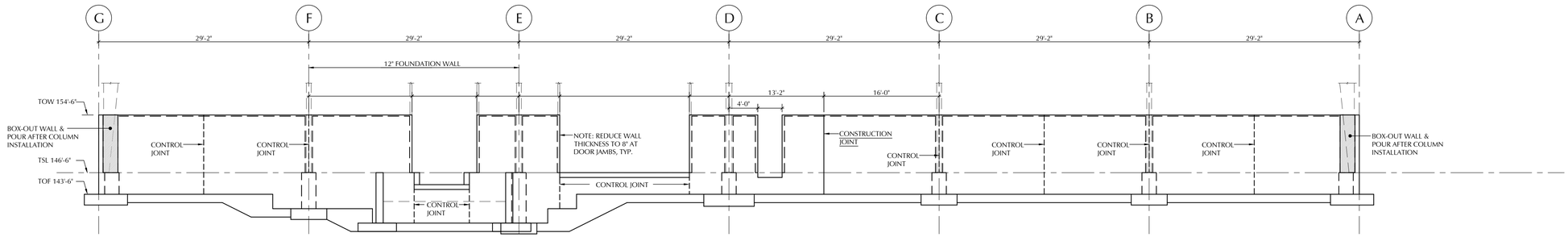
V.2.1



FOUNDATION WALL ELEVATION 'D'

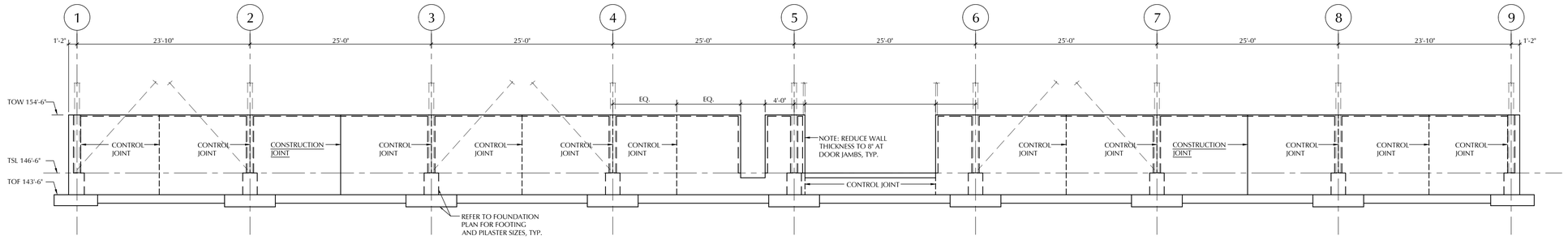


FOUNDATION WALL ELEVATION 'C'



FOUNDATION WALL ELEVATION 'B'

WALL JOINT NOTE:
- REFER TO S001 FOR TYPICAL WALL JOINT DETAILS.
- CONTRACTOR MAY REPLACE CONTROL JOINTS WITH CONSTRUCTION JOINTS TO SUIT SEQUENCE OF CONSTRUCTION.



FOUNDATION WALL ELEVATION 'A'

ARCHITECT

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PROJECT NAME

RAD FACILITY

CLIENT

PROJECT TEAM

STRUCTURAL ENGINEER
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REVISIONS

DATE

DRAWING TITLE

Foundation Wall Elevations

DRAWING INFORMATION

COMMONWEALTH OF MASSACHUSETTS
CHRISTOPHER J. TUTUS
STRUCTURAL
NO. 45570
REGISTERED PROFESSIONAL ENGINEER

October 21, 2024
DATE OF ISSUE

Construction Documents
DESCRIPTION

1/8" = 1'-0"
SCALE

CJT
DRAWN BY

3515
PROJECT #

FILE NAME

DRAWING NUMBER

S401

V 2.1

DISCLAIMER:

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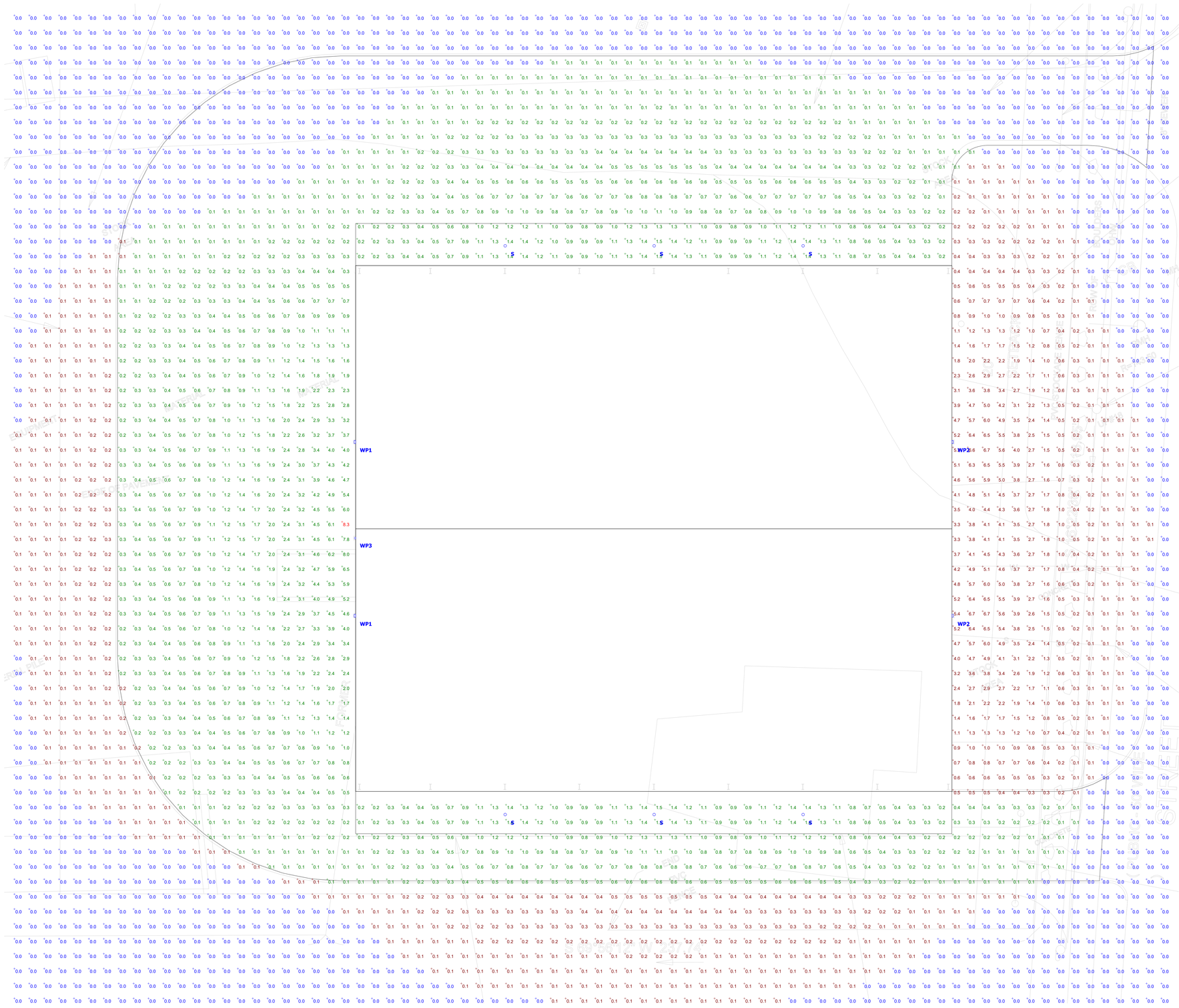


Plan View
Scale - 1" = 12ft

NOTES:

-REFLECTANCES ASSUMED:
WALL: 50
GROUND: 20

- MOUNTING HEIGHTS:
TYPE WP1 / WP2: 26'-0" AFG
TYPE WP3: 8'-0" AFG
TYPE S: 26'-0" AFG

- TASK HEIGHT: 0" AFG
- CALCULATION POINT SPACING: 5'X5' OC

SCHEDULE

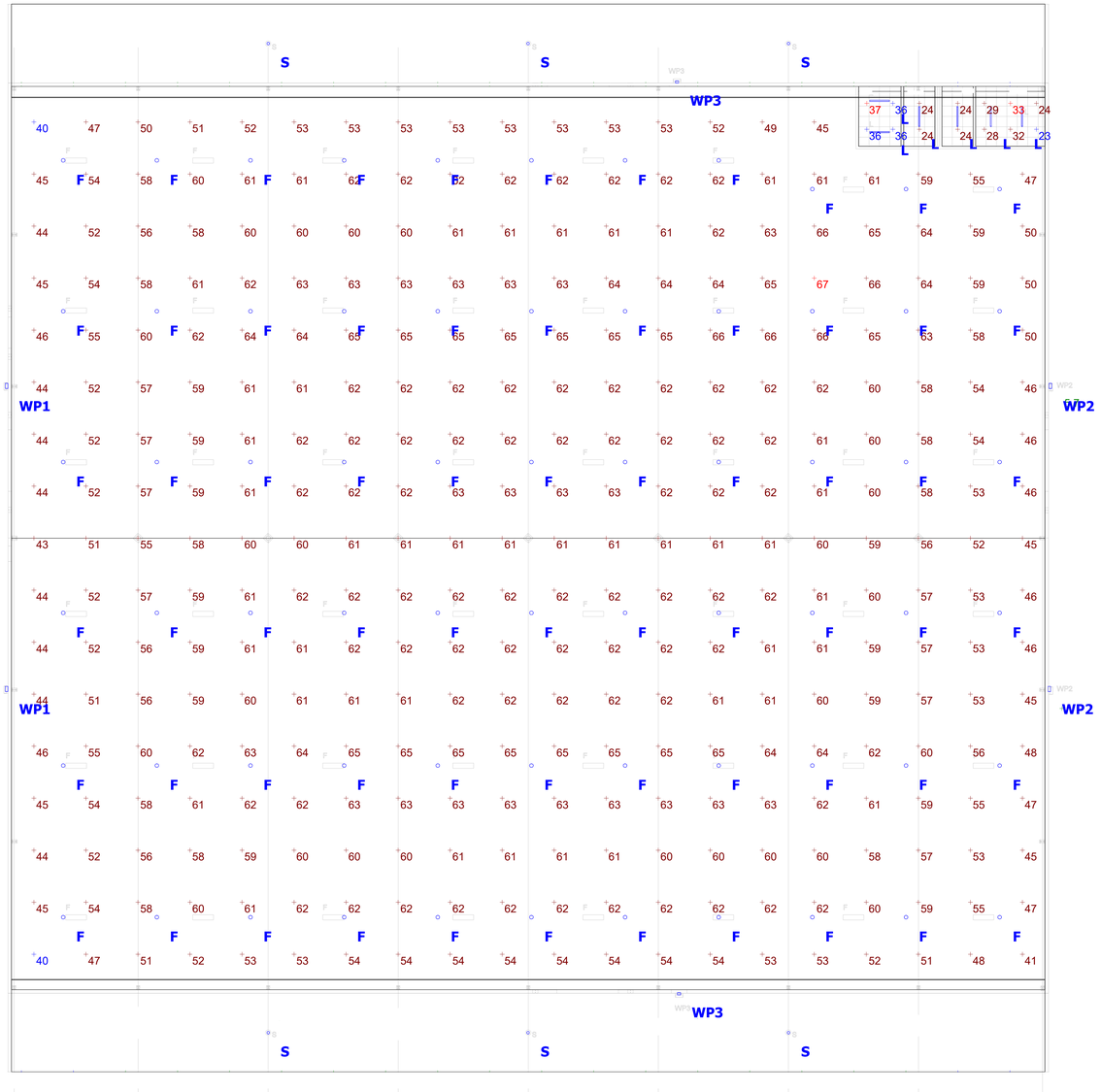
Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Light Loss Factor	Wattage
	S	6	Luminis Canada Inc.	SN1100C-L1L32-K30-VOLTAGE-FINISH	Scena - Ceiling Round 11in	0.9	38.3
	WP1	2	Lithonia Lighting	WDGE3 P4 30K 80CRI RFT VOLTAGE MOUNTING XX FINISH	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 3000K, 80CRI, FORWARD THROW OPTIC	0.9	87.8914
	WP2	2	Lithonia Lighting	WDGE3 P4 30K 80CRI R2 VOLTAGE MOUNTING XX FINISH	WDGE3 LED WITH P4 - PERFORMANCE PACKAGE, 3000K, 70CRI, TYPE 2 OPTIC	0.9	87.8914
	WP3	1	Lithonia Lighting	WDGE2 P3 30K 80CRI R3 VOLTAGE MOUNTING XX FINISH	WDGE2 LED WITH P3 - PERFORMANCE PACKAGE, 3000K, 80CRI, TYPE 3 MEDIUM OPTIC	0.9	32.1375

STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN
Pavement	+	0.6 fc	8.3 fc	0.0 fc	N/A	N/A
Boundary	+	0.5 fc	8.3 fc	0.0 fc	N/A	N/A

RAD Recycling Center
06-04-2024

Designer Benjamin P. Rowe
Date 06/04/2024
Scale Not to Scale
Drawing No.
Summary



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Plan View

Scale - 1" = 10ft

SCHEDULE

Symbol	Label	Quantity	Manufacturer	Catalog Number	Description	Light Loss Factor	Wattage
	S	6	Lithonia Lighting	LDN6 40/50 L06AR LSS FLANGE VOLTAGE DRIVER XX CONTROL OPTIONS	6IN LDN, 4000K, 5000LM, CLEAR, SEMI-SPECULAR REFLECTOR, CRI80	0.9	57.68
	F	66	Lithonia Lighting	JEBL 30L LENS VOLTAGE 40K 80CRI MOUNTING OPTIONS FINISH	JEBL LED round high bay	0.9	214.72
	L	6	Lithonia Lighting	CSS L48 ALO3 MVOLT SWW3 80CRI	Contractor LED Single Strip	0.9	43.3172
	WP1	2	Lithonia Lighting	WDGE3 LED P2 70CRI R2 40K	WDGE3 P2 | Performance Package | Type 2 Optic	0.9	59.2761
	WP2	2	Lithonia Lighting	WDGE3 LED P2 70CRI R2 40K	WDGE3 P2 | Performance Package | Type 2 Optic	0.9	59.2761
	WP3	2	Lithonia Lighting	WDGE2 LED P2 40K 80CRI T2M	WDGE2 P2 | Performance Package | Type 2 Optic	0.9	18.9815

STATISTICS

DESCRIPTION	SYMBOL	AVG.	MAX	MIN.	MAX/MIN	AVG/MIN
GROUND	+	1.1 fc	9.7 fc	0.0 fc	N/A	N/A
ROOM	+	36 fc	37 fc	36 fc	1.0:1	1.0:1
ROOM	+	24 fc	24 fc	24 fc	1.0:1	1.0:1
ROOM	+	24 fc	24 fc	24 fc	1.0:1	1.0:1
ROOM	+	28 fc	33 fc	23 fc	1.4:1	1.2:1
FLOOR	+	58 fc	67 fc	40 fc	1.7:1	1.5:1

NOTES:

-REFLECTANCES ASSUMED:
OPEN: 50
ACT: 80
WALL: 50
FLOOR: 20

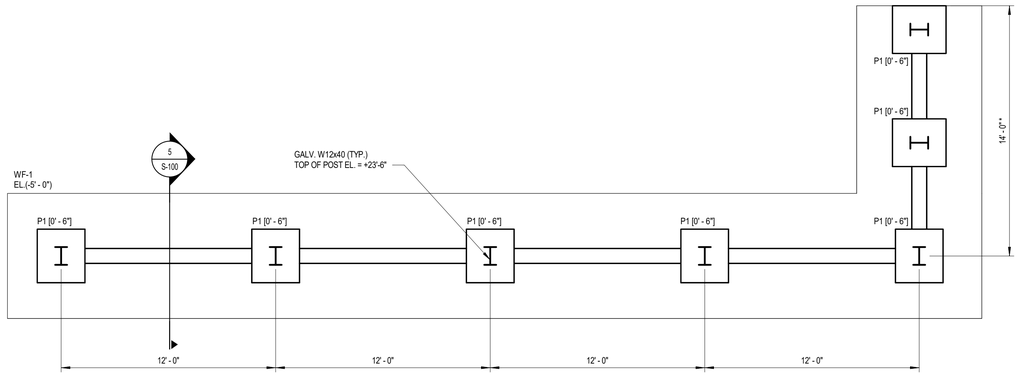
- MOUNTING HEIGHTS: VARIES
- CEILING HEIGHT:
ROOM: 11'-0"
WAREHOUSE: VARIES

- TASK HEIGHT: 0" ABOVE FINISHED FLOOR
- CALCULATION POINT SPACING:
ROOM: 5'X5' OC
WAREHOUSE: 10'X10' OC

RAD Facility
07-01-2024

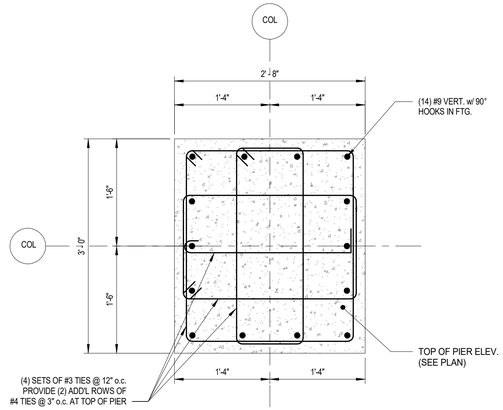
Designer
JMH
Date
07/01/2024
Scale
Not to Scale
Drawing No.

Summary



NOTES:
1. * INDICATES TO POUR PIER AGAINST EXISTING FOUNDATION AND CENTER POST ON PIER.
2. EXISTING GRADE ELEVATION CALLED 0'-0".
3. [ ] INDICATES TOP OF PIER ELEVATION.
4. ( ) INDICATES BOTTOM OF FOOTING ELEVATION.
5. COORDINATE PUNCH OUTS, BRACKETS, ETC. ON POST AS REQUIRED FOR CHAIN LINK FENCE INSTALLATION PRIOR TO GALVANIZING POST.

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

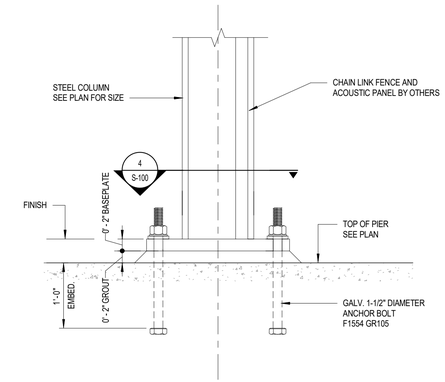


2 TYPICAL PIER DETAIL - P1
SCALE: 1" = 1'-0"

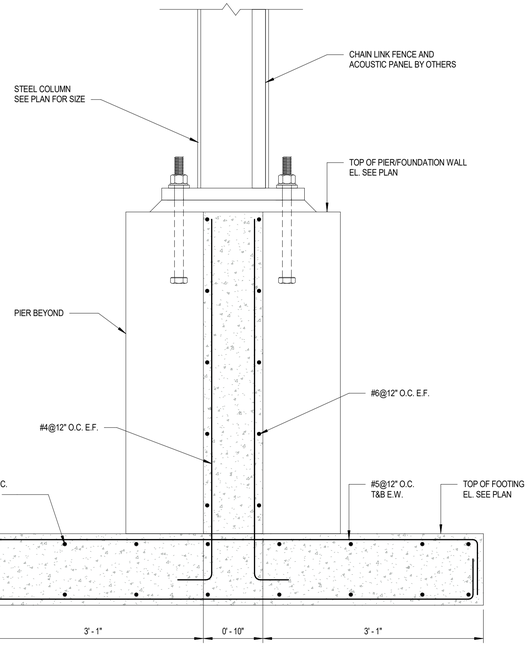
GENERAL NOTES:
1. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE MASSACHUSETTS STATE BUILDING CODE, 10TH EDITION.
2. THE DRAWINGS REPRESENT FINAL CONDITIONS. THE CONTACTOR(S) ARE ENTIRELY RESPONSIBLE FOR THE STABILITY OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION, INCLUDING ANY AND ALL TEMPORARY SUPPORTS OR TEMPORARY LOADS IMPOSED BY CONSTRUCTION MATERIALS, EQUIPMENT, OR PERSONNEL. DESIGN OF TEMPORARY SUPPORTS, AS REQUIRED, SHALL BE PERFORMED BY A STRUCTURAL ENGINEER, REGISTERED IN THE PROJECT JURISDICTION, AND UNDER THE EMPLOY OF THE CONTRACTOR.
3. THE CONTRACTOR IN ENTIRELY RESPONSIBLE FOR MEANS AND METHODS OF CONSTRUCTION, INCLUDING SUPPORT OF LIFTS, BOOMS, CRANES, OR OTHER EQUIPMENT. WHILE REASONABLE REQUESTS FOR EVALUATION OF LOADS MAY BE PERFORMED BY THE EOR (AT THE DISCRETION OF THE EOR), EVALUATION OF LOADS ABOVE AND BEYOND THE DESIGN LOADS OF THE STRUCTURE, AS SHOWN IN THE DRAWINGS, IS NOT IN THE EOR'S SCOPE OF WORK.

FOUNDATION NOTES:
1. FOUNDATIONS SHALL BEAR ON NATURAL SUITABLE BEARING SOILS, ROCK, OR COMPACTED GRANULAR FILL HAVING A MINIMUM BEARING CAPACITY OF 3 KIPS PER SQUARE FOOT AND 200 PSF/FT LATERAL BEARING PRESSURE. SOILS ARE ASSUMED TO BE CLASS 3 PER IBC TABLE 1806.2.
2. EXISTING SOILS SHALL BE VERIFIED BY THIRD PARTY INSPECTOR PRIOR TO INSTALLING FOUNDATION. EOR SHALL BE NOTIFIED PRIOR TO PLACEMENT IF LOWER STRENGTH SOILS THAN ARE ASSUMED ARE PRESENT ON SITE.
3. FOOTING BEARING LEVELS SHALL BE AT LEAST 4' - 0" BELOW THE LOWEST ADJACENT GROUND SURFACE EXPOSED TO FREEZING.
4. THE CONTRACTOR SHALL PROVIDE CONTINUOUS CONTROL OF SURFACE AND UNDERGROUND WATER (AS APPLICABLE) DURING CONSTRUCTION SUCH THAT WORK IS PERFORMED IN THE DRY. THE DESIGN AND MAINTENANCE OF THE UNDERGROUND WATER CONTROL SYSTEM SHALL BE BY THE GEOTECHNICAL ENGINEER AND SHALL ENSURE NO DETRIMENTAL EFFECTS ON ADJACENT STRUCTURES. AS APPLICABLE, UNDERGROUND WATER CONTROL SHALL BE MAINTAINED THROUGH CONSTRUCTION TO A POINT THAT SUFFICIENT PERMANENT UNDERGROUND WATER SYSTEMS ARE ACTIVE AND SUFFICIENT BUILDING WEIGHT IS IN PLACE TO ENSURE STABILITY OF THE STRUCTURE.

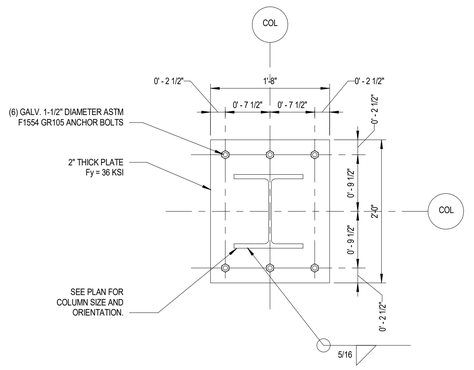
CAST-IN-PLACE CONCRETE NOTES:
1. SUBMIT CONCRETE MIX DESIGN TO EOR FOR REVIEW.
2. CONCRETE MIX TO HAVE 28 DAY STRENGTH F'C = 4000 PSI, AIR ENTRAINMENT WHERE EXPOSED TO WEATHER.
3. ALL MIX DESIGNS SHALL BE SUBMITTED TO THE EOR FOR REVIEW, INCLUDING ALL BACKUP DATA AS REQUIRED.
4. ALL CONCRETE SHALL BE CONSIDERED CONTROLLED AND SHALL BE PROPORTIONED, MIXED, AND PLACED UNDER THE SUPERVISION OF AN APPROVED CONCRETE TESTING AGENCY.
5. ALL CONCRETE SHALL BE NORMAL WEIGHT, UNLESS OTHERWISE NOTED, WITH SAND AND GRAVEL AGGREGATES, TYPE I OR II PORTLAND CEMENT, AND MINIMUM COMPRESSIVE STRENGTH (F'C) IN 28 DAYS AS SPECIFIED IN THE CONCRETE STRENGTH TABLE.
6. ALL CONCRETE EXPOSED TO WEATHER OR POSSIBLE FREEZE/THAW ACTION DURING CONSTRUCTION SHALL BE AIR ENTRAINED, USING AIR-ENTRAINING ADMIXTURES WHERE REQUIRED TO 6% AIR CONTENT +/- 1.5%.
7. STRUCTURAL EMBEDDED ITEMS (SUCH AS EMBEDDED PLATES, ANCHOR BOLTS, DOWEL BAR SUBSTITUTES, ETC) SHALL BE INCLUDED AND SUFFICIENTLY SECURED SUCH THAT THEIR LOCATION MATCHES THAT SHOWN IN THE DRAWINGS. THE CONTRACTOR SHALL SUPPLY A SURVEY OF EMBEDDED ITEM LOCATIONS AFTER REMOVAL OF FORMWORK FOR REVIEW BY THE EOR AND USE BY THE RESPECTIVE TRADES.
8. STRUCTURAL EMBEDDED ITEMS SHOWN IN THE DRAWINGS ARE REQUIRED TO BE EMBEDDED AS DESIGNED. POST-INSTALLING OF EMBEDDED PLATES OR OTHER ITEMS SHALL NOT BE ASSUMED TO BE AN ACCEPTABLE ALTERNATIVE, AND OMISSION OF SAID ITEMS, EITHER INTENTIONALLY OR NOT, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO CORRECT, INCLUDING ANY ENGINEERING REQUIRED.
9. REFER TO THE LANDSCAPE ARCHITECTURAL DRAWINGS FOR ALL DIMENSIONS LOCATING CONCRETE ELEMENTS.
10. THE CONTRACTOR SHALL SUBMIT COLD/HOT WEATHER CONCRETE PLACING PROCEDURES FOR EOR REVIEW WITH SUFFICIENT TIME FOR IMPLEMENTATION OF CHANGES PRIOR TO IMPLEMENTATION OF PROCEDURES.



3 TYPICAL COLUMN BASE DETAIL
SCALE: 1" = 1'-0"



5 FOUNDATION WALL SECTION
SCALE: 1" = 1'-0"



4 TYPICAL BASEPLATE DETAIL
SCALE: 1" = 1'-0"

COMMONWEALTH OF MASSACHUSETTS
ERIC TOBOLSKI STRUCTURAL No. 47975
PROFESSIONAL ENGINEER

NO.	DATE:	REVISION:

DESIMONE
140 BROADWAY, 25TH FLOOR
NEW YORK, NEW YORK 10005
T. 212.532.2211 F. 212.481.6108

CLIENT:
RAD SPORTS
171 VFW DRIVE
ROCKLAND, MA 02370

PROJECT:
Turf Recyclers
171 V.F.W. Drive,
Rockland, MA 02370

TITLE:
SCREENWALL PLAN

PROJECT NO: 251398

DATE: 10/09/2025

SCALE: As indicated

DRAWN BY: EAT

CHKED BY: EAT

SHEET NO: S-100