L A T I T U D E 4 3

2 8 2 5 - 2 8 3 5 N M A Y F A I R W A U W A T O S A W I 5 3 2 1 3



PERSPECTIVES USED TO CONVEY GENERAL LOOK OF THE DESIGN.
SEE SUBSEQUENT DRAWINGS FOR DETAILS AND DIMENSIONS.

CONTACT INFORMATION

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jrg@galbraithcarnahan.com

ABBREVIATIONS

#	Pound OR Number
&	And
@	At

A

ACT	Acoustic Ceiling Tile
AD	Area Drain
AFF	Above Finished Floor
ALUM	Aluminum
ANOD	Anodized
APPROX	Approximately

B

BES	Bank Equipment Supplier
BLKG	Blocking
BLKHD	Bulkhead
BRG	Bearing
BSMT	Basement
BW	Both Ways
BYND	Beyond
BO	Bottom Of
BOT	Bottom

C

CABT	Cabinet
CIP	Cast In Place
CHNL	Channel
CJ	Control Joint
CL	Closet
CLG	Ceiling
CLR	Clear
CM	Construction Manager
CMU	Concrete Masonry Unit
COL	Column
COMPR	Compressible
CONC	Concrete
CONC BLK	Concrete Block
CONT	Continuous
CONTR	Contractor
CPT	Carpet
CRS	Course
CT	Ceramic Tile
CTB	Ceramic Tile Base
CTYD	Courtyard

D

DBL	Double
DEMO	Demolish or Demolition
DIA	Diameter
DIM	Dimension
DIMS	Dimensions
DISP	Dispenser
DN	Down
DR	Door
DRWR	Drawer
DS	Downspout
DTL	Detail
DW	Dishwasher
DWG	Drawing

E

EA	Each
EIFS	Exterior Insulation Finish System
EJ	Expansion Joint
EL	Elevation
ELEC	Electrical
ELEV	Elevator or Elevation
EPDM	Ethylene Propylene Diene M-Class (Roofing)
EQ	Equal
ETR	Existing To Remain
EXIST	Existing
EXP	Expansion
EXP JT	Expansion Joint
EXT	Exterior

F

FD	Floor Drain or Fire Department
FE	Fire Extinguisher
FEC	Fire Extinguisher Cabinet
FIN FLR	Finished Floor
FIXT	Fixture
FLR	Floor
FLSHG	Flashing
FM	Filled Metal
FO	Face Of
FT	Foot
FTG	Footing
FND	Foundation

G

GA	Gauge
GALV	Galvanized
GB	Grab Bar
GWB	Gypsum Wall Board

H

HC	Hollow Core
HDWD	Hardwood
HDR	Header
HI	High
HM	Hollow Metal
HORIZ	Horizontal
HP	High Point
HR	Hour
HT	Height
HRDBD	Hardboard
HVAC	Heating, Ventilating, And Air Conditioning

I

IRGWB	Impact Resistant Gypsum Wall Board
ILO	In Lieu Of
INSTR	Instructions
INSUL	Insulated or Insulation
INT	Interior

J

JNT	Joint

M

MAX	Maximum
MFR	Manufacturer
MO	Masonry Opening
MECH	Mechanical
MEMBR	Membrane
MICRO	Microwave
MIN	Minimum
MISC	Miscellaneous
MRDW	Moisture Resistant Dry Wall
MRGWB	Moisture-Resistant Gypsum Wall Board
MTL	Metal
MTR	Mortar
MTRL	Material

N

NIC	Not In Contract
NO	Number
NOM	Nominal

O

OC	On Center
OH	Opposite Hand
OPNG	Opening
OZ	Ounce

P

PCC	Pre-Cast Concrete
PLUMB	Plumbing
PLAM	Plastic Laminate
PLUMB	Plumbing
PLYWD	Plywood
P&SH	Pole & Shelves / Shelf
PREFIN	Prefinished
PT	Pressure Treated
PNT	Paint or Painted
PVC	Polyvinyl Chloride

R

RB	Rubber Base
RBR	Rubber
RCP	Reflected Ceiling Plan
RD	Roof Drain
REF	Refrigerator
REINF	Reinforced
REQD	Required
RM	Room

S

SHTHG	Sheathing
SF	Sheet Flooring
SIM	Similar
SPEC	Specified OR Specification
SPK	Sprinkler or Speaker
SS	Stainless Steel
ST	Stain
STC	Sound Transmission Coefficient
STL	Steel
STRUCT	Structure or Structural

T

T&G	Tongue And Groove
TELE	Telephone
TLT	Toilet
TO	Top Of
TOC	Top Of Concrete
TOS	Top Of Steel
TPD	Toilet Paper Dispenser
T/D	Telephone/Data
TYP	Typical

U

UNO	Unless Noted Otherwise
U/S	Underside

V

VB	Vinyl Base
VCT	Vinyl Composition Tile
VERT	Vertical
VIF	Verify In Field
VP	Vision Panel
VWC	Vinyl Wall Covering

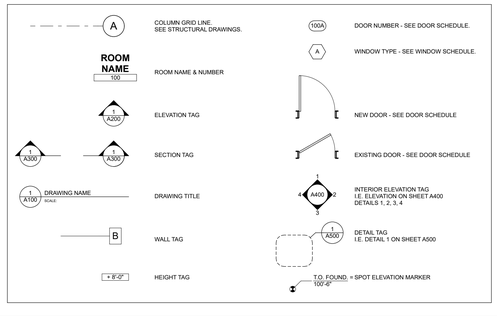
W

W	With
WD	Wood
WDW	Window

UNIT MATRIX

STUDIO: 17
1 BEDROOM: 52
2 BEDROOM: 20
3 BEDROOM: 3
TOTAL: 92

SYMBOL KEY



SHEET INDEX

ID	NAME
G100	COVER SHEET
C-1.0	CIVIL COVER SHEET
C-2.0	GENERAL NOTES
C-3.0	EXISTING CONDITIONS & DEMOLITION PLAN
C-4.0	SITE DIMENSIONAL PLAN
C-5.0	GRADING AND EROSION CONTROL PLAN
C-6.0	UTILITY PLAN
C-7.0	CONSTRUCTION DETAILS
C-7.1	CONSTRUCTION DETAILS
C-7.2	CONSTRUCTION DETAILS
A100	FIRST FLOOR PLAN
A101	SECOND FLOOR PLAN
A102	THIRD FLOOR PLAN
A103	FOURTH FLOOR PLAN
A104	FIFTH FLOOR PLAN
A105	ROOF PLAN
A130	TYPICAL UNIT PLANS
A131	TYPICAL UNIT PLANS
A132	TYPICAL UNIT PLANS
A200	ELEVATIONS
A201	ELEVATIONS
A300	BUILDING SECTIONS
A301	WALL SECTIONS
A500	ASSEMBLY TYPES
A501	ASSEMBLY TYPES
A900	RENDERINGS

NOT FOR CONSTRUCTION

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www.galbraithcarnahan.com

CONSULTANTS:

CONTRACTOR

STAMP

LATITUDE 43
2825 - 2835 N MAYFAIR WAUWATOSA WI 53213

DRAWING ISSUE	DATE
DRB SET	12.09.2025

PROJECT # 24.20

COVER SHEET

G100

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CIVIL ENGINEERING PLANS

FOR

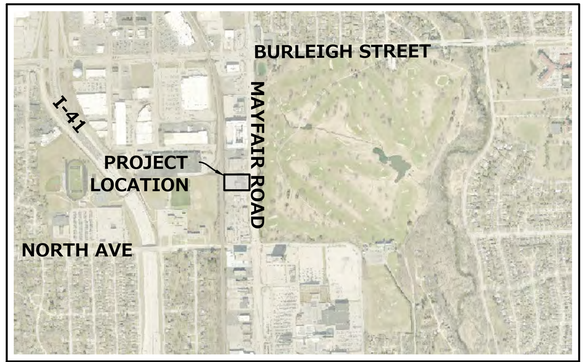
LATITUDE 43

CITY OF WAUWATOSA

PLANS PREPARED
FOR

KGI CONSTRUCTION GROUP

2861 HWY 175, SUITE 100
RICHFILED, WI 53076



LOCATION MAP
SCALE: 1" = 1000'

LEGEND

	EXISTING	PROPOSED
SANITARY SEWER MANHOLE		
STORM SEWER MANHOLE		
STORM SEWER CATCH BASIN (ROUND CASTING)		
STORM SEWER CATCH BASIN (RECTANGULAR CASTING)		
PRECAST FLARED END SECTION		
VALVE BOX		
FIRE HYDRANT		
CLEANOUT		
SANITARY SEWER		
STORM SEWER		
WATER MAIN	W	W
ELECTRICAL CABLE	E	E
GAS MAIN	G	G
TELEPHONE LINE	T	T
UTILITY CROSSING		X
LIGHTING		
ELECTRICAL TRANSFORMER OR PEDESTAL	E	
POWER POLE		
POWER POLE WITH LIGHT		
GUY WIRE		
STREET SIGN		
CONTOUR	749	749
SPOT ELEVATION	×(750.00)	+750.00
WETLANDS	WL	
FLOODWAY		
FLOODPLAIN		
HIGH WATER LEVEL (HWL)		
NORMAL WATER LEVEL (NWL)		
DIRECTION OF SURFACE FLOW		
DITCH OR SWALE		
DIVERSION SWALE		
OVERFLOW RELIEF ROUTING		
TREE WITH TRUNK SIZE	6"	
SOIL BORING	B1	B1
TOPSOIL PROBE	P1	P1
FENCE LINE, TEMPORARY SILT	SF	SF
FENCE LINE, WIRE		
FENCE LINE, CHAIN LINK OR IRON		
FENCE LINE, WOOD OR PLASTIC		
CONCRETE SIDEWALK		
CURB AND GUTTER		
DEPRESSED CURB		
REVERSE PITCH CURB & GUTTER		
EASEMENT LINE		

ABBREVIATIONS

BL	BASE LINE	MH	MANHOLE
BP	BOTTOM OF PIPE	NWL	NORMAL WATER LEVEL
C	LONG CHORD OF CURVE	PC	POINT OF CURVATURE
C & G	CURB AND GUTTER	PT	POINT OF TANGENCY
CB	CATCH BASIN	PVI	POINT OF VERTICAL INTERSECTION
CL	CENTERLINE	R	RADIUS
D	DEGREE OF CURVE	ROW	RIGHT-OF-WAY
EP	EDGE OF PAVEMENT	SAN	SANITARY SEWER
FF	FINISHED FLOOR	ST	STORM SEWER
FG	FINISHED GRADE	T	TANGENCY OF CURVE
FL	FLOW LINE	TB	TOP OF BANK
FP	FLOODPLAIN	TC	TOP OF CURB
FR	FRAME	TF	TOP OF FOUNDATION
FW	FLOODWAY	TP	TOP OF PIPE
FYG	FINISHED YARD GRADE	TS	TOP OF SIDEWALK
HWL	HIGH WATER LEVEL	TW	TOP OF FOUNDATION WALL
INV	INVERT	WM	WATER MAIN
L	LENGTH OF CURVE	△	INTERSECTION ANGLE

GENERAL NOTES

1. THE INTENTION OF THE PLANS AND SPECIFICATIONS IS TO SET FORTH PERFORMANCE AND CONSTRUCTION MATERIAL STANDARDS FOR THE PROPER EXECUTION OF WORK. ALL WORKS CONTAINED WITHIN THE PLANS AND SPECIFICATIONS SHALL BE COMPLETED IN ACCORDANCE WITH ALL REQUIREMENTS FROM LOCAL, STATE, FEDERAL OR OTHER GOVERNING AGENCY'S LAWS, REGULATIONS, JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., AND THE OWNER'S DIRECTION.
2. A GEOTECHNICAL REPORT HAS BEEN PREPARED BY <GEOTECH FIRM> ON <DATE>, FOR THE PROJECT SITE. THE DATA ON SUB-SURFACE SOIL CONDITIONS IS NOT INTENDED AS A REPRESENTATION OR WARRANTY OF THE CONTINUITY OF SUCH CONDITIONS BETWEEN BORINGS OR INDICATED SAMPLING LOCATIONS. IT SHALL BE EXPRESSLY UNDERSTOOD THAT OWNER WILL NOT BE RESPONSIBLE FOR ANY INTERPRETATIONS OR CONCLUSIONS DRAWN THERE FROM BY THE CONTRACTOR. DATA IS MADE AVAILABLE FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR IS RESPONSIBLE FOR PERFORMING ANY ADDITIONAL SOILS INVESTIGATIONS THEY FEEL IS NECESSARY FOR THE PROPER EVALUATION OF THE SITE FOR PURPOSES OF PLANNING, BIDDING, OR CONSTRUCTING THE PROJECT AT NO ADDITIONAL COST TO THE OWNER.
3. THE CONTRACTOR IS RESPONSIBLE TO REVIEW AND UNDERSTAND ALL COMPONENTS OF THE PLANS AND SPECIFICATIONS, INCLUDING FIELD VERIFYING SOIL CONDITIONS, PRIOR TO SUBMISSION OF A BID PROPOSAL.
4. THE CONTRACTOR SHALL PROMPTLY REPORT ANY ERRORS OR AMBIGUITIES LEARNED AS PART OF THEIR REVIEW OF PLANS, SPECIFICATIONS, REPORTS AND FIELD INVESTIGATIONS.
5. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE COMPUTATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THIS PROJECT. THE CONTRACTOR'S BID SHALL BE BASED ON IT'S OWN COMPUTATIONS AND IN NO SUCH INSTANCE RELY ON THE ENGINEER'S ESTIMATE.
6. QUESTIONS/CLARIFICATIONS WILL BE INTERPRETED BY ENGINEER/OWNER PRIOR TO THE AWARD OF CONTRACT. ENGINEER/OWNER WILL SUBMIT OFFICIAL RESPONSES IN WRITING. INTERPRETATIONS PRESENTED IN OFFICIAL RESPONSES SHALL BE BINDING ON ALL PARTIES ASSOCIATED WITH THE CONTRACT. IN NO WAY SHALL WORD-OF-MOUTH DIALOG CONSTITUTE AN OFFICIAL RESPONSE.
7. PRIOR TO START OF WORK, CONTRACTOR SHALL BE COMPLETELY FAMILIAR WITH ALL CONDITIONS OF THE SITE, AND SHALL ACCOUNT FOR CONDITIONS THAT AFFECT, OR MAY AFFECT CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, LIMITATIONS OF WORK ACCESS, SPACE LIMITATIONS, OVERHEAD OBSTRUCTIONS, TRAFFIC PATTERNS, LOCAL REQUIREMENTS, ADJACENT ACTIVITIES, ETC. FAILURE TO CONSIDER SITE CONDITIONS SHALL NOT BE CAUSE FOR CLAIM OF JOB EXTRAS.
8. COMMENCEMENT OF CONSTRUCTION SHALL EXPLICITLY CONFIRM THAT THE CONTRACTOR HAS REVIEWED THE PLANS AND SPECIFICATIONS IN ENTIRETY AND CERTIFIES THAT THEIR SUBMITTED BID PROPOSAL CONTAINS PROVISIONS TO COMPLETE THE PROJECT, WITH THE EXCEPTION OF UNFORESEEN FIELD CONDITIONS; ALL APPLICABLE PERMITS HAVE BEEN OBTAINED; AND CONTRACTOR UNDERSTANDS ALL OF THE REQUIREMENTS OF THE PROJECT.
9. SHOULD ANY DISCREPANCIES OR CONFLICTS IN THE PLANS OR SPECIFICATIONS BE DISCOVERED AFTER THE AWARD OF CONTRACT, ENGINEER SHALL BE NOTIFIED IN WRITING IMMEDIATELY AND CONSTRUCTION OF ITEMS AFFECTED BY THE DISCREPANCIES/CONFLICTS SHALL NOT COMMENCE, OR CONTINUE, UNTIL A WRITTEN RESPONSE FROM ENGINEER/OWNER IS DISTRIBUTED. IN THE EVENT OF A CONFLICT BETWEEN REFERENCED CODES, STANDARDS, SPECIFICATIONS AND PLANS, THE ONE ESTABLISHING THE MOST STRINGENT REQUIREMENTS SHALL BE FOLLOWED.
10. THE CONTRACTOR SHALL, AT ITS OWN EXPENSE, OBTAIN ALL NECESSARY PERMITS AND LICENSES TO COMPLETE THE PROJECT. OBTAINING PERMITS, OR DELAYS, IS NOT CAUSE FOR DELAY OF THE CONTRACT OR SCHEDULE. CONTRACTOR SHALL COMPLY WITH ALL PERMIT REQUIREMENTS.
11. THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFYING ALL UTILITY INFORMATION SHOWN ON THE PLANS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL CALL DIGGER'S HOTLINE AT 1-800-242-8511 TO NOTIFY THE UTILITIES OF HIS INTENTIONS, AND TO REQUEST FIELD STAKING OF EXISTING UTILITIES.
12. THE CONTRACTOR SHALL NOTIFY ALL INTERESTED GOVERNING AGENCIES, UTILITY COMPANIES AFFECTED BY THIS CONSTRUCTION PROJECT, AND DIGGER'S HOTLINE IN ADVANCE OF CONSTRUCTION TO COMPLY WITH ALL JURISDICTIONAL ORDINANCES/CODES/RULES/ETC., PERMIT STIPULATIONS, AND OTHER APPLICABLE STANDARDS. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A STREET OCCUPANCY PERMIT FROM THE CITY.
13. SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE TO INITIATE, INSTITUTE, ENFORCE, MAINTAIN, AND SUPERVISE ALL SAFETY PRECAUTIONS AND JOB SITE SAFETY PROGRAMS IN CONNECTION WITH THE WORK.
14. CONTRACTOR SHALL KEEP THE JOBSITE CLEAN AND ORDERLY AT ALL TIMES. ALL LOCATIONS OF THE SITE SHALL BE KEPT IN A WORKING MANNER SUCH THAT DEBRIS IS REMOVED CONTINUOUSLY AND ALL RESPECTIVE CONTRACTORS OPERATE UNDER GENERAL "GOOD HOUSEKEEPING."
15. THE CONTRACTOR SHALL INDEMNIFY THE OWNER, THE ENGINEER, AND THE MUNICIPALITY, THEIR AGENTS, ETC, FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION, AND TESTING OF THE WORK ON THIS PROJECT.
16. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, LATEST EDITION, THE STANDARD SPECIFICATIONS FOR SEWER & WATER IN WISCONSIN, AND WISCONSIN ADMINISTRATIVE CODE, SPS 360, 382-383, AND THE LOCAL ORDINANCES AND SPECIFICATIONS.
17. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE MUNICIPALITY FORTY- EIGHT (48) HOURS PRIOR TO THE START OF CONSTRUCTION.
18. THE MUNICIPALITY SHALL HAVE THE RIGHT TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF THE PUBLIC PORTIONS OF THE WORK. THE OWNER SHALL HAVE THE RIGHT TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION OF ALL PRIVATE PORTIONS OF THE WORK.
19. ALL SPECIFIC EROSION AND SEDIMENT CONTROL FACILITIES MUST BE INSTALLED PRIOR TO DEMOLITION, CONSTRUCTION OR ANY OTHER LAND DISTURBING ACTIVITY. FOLLOW THE SEQUENCE OF CONSTRUCTION ON THE EROSION CONTROL PLAN FOR MORE DETAILS. INSPECTIONS SHALL BE MADE WEEKLY OR AFTER EVERY RAINFALL OF 0.5" OR MORE. REPAIRS SHALL BE MADE IMMEDIATELY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ALL EROSION CONTROL FACILITIES ONCE THE THREAT OF EROSION HAS PASSED WITH THE APPROVAL OF THE GOVERNING AGENCY.
20. ANY ADJACENT PROPERTIES OR ROAD RIGHT-OF-WAYS WHICH ARE DAMAGED DURING CONSTRUCTION MUST BE RESTORED BY THE CONTRACTOR.
21. THE OWNER SHALL HAVE THE RIGHT TO HAVE ALL MATERIALS USED IN CONSTRUCTION TESTED FOR COMPLIANCE WITH THESE SPECIFICATIONS.

INDEX OF SHEETS

C-1.0	COVER SHEET
C-2.0	GENERAL NOTES
C-3.0	EXISTING CONDITIONS & DEMOLITION PLAN
C-4.0	SITE DIMENSIONAL PLAN
C-5.0	GRADING AND EROSION CONTROL
C-6.0	UTILITY PLAN
C-7.0 TO C-7.2	CONSTRUCTION DETAILS
L-1	CONCEPT LANDSCAPE PLAN
L-2	LANDSCAPE GENERAL NOTES & DETAILS

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BENCHMARKS AND DATUM

BASIS OF BEARINGS: WISCONSIN STATE PLAN COORDINATE SYSTEM, SOUTH ZONE, NAD 1983.

VERTICAL DATUM: NORTH AMERICAN VERTICAL DATUM OF 1988.

SITE BENCH MARK: WEST ARROW BOLT OF HYDRANT ON WEST SIDE OF MAYFAIR ROAD, LOCATED 835 FEET NORTH OF CENTER STREET, ELEVATION: 740.57

ADDRESS: 2835 MAYFAIR ROAD
PARCEL TAXKEY: 2999987000

ADDRESS: 2825 MAYFAIR ROAD
PARCEL TAXKEY: 2999986000

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www.DiggersHotline.com

EXPIRATION DATE: JULY 31, 2026

PINNACLE ENGINEERING GROUP, LLC
ENGINEER'S LIMITATION

PINNACLE ENGINEERING GROUP, LLC AND THEIR CONSULTANTS DO NOT WARRANT OR GUARANTEE THE ACCURACY AND COMPLETENESS OF THE DELIVERABLES HEREIN BEYOND A REASONABLE DILIGENCE. IF ANY MISTAKES, OMISSIONS, OR DISCREPANCIES ARE FOUND TO EXIST WITHIN THE DELIVERABLES, THE ENGINEER SHALL BE PROMPTLY NOTIFIED PRIOR TO BID SO THAT HE MAY HAVE THE OPPORTUNITY TO TAKE WHATEVER STEPS NECESSARY TO RESOLVE THEM. FAILURE TO PROMPTLY NOTIFY THE ENGINEER OF SUCH CONDITIONS SHALL ABSOLVE THE ENGINEER FROM ANY RESPONSIBILITY FOR THE CONSEQUENCES OF SUCH FAILURE. ACTIONS TAKEN WITHOUT THE KNOWLEDGE AND CONSENT TO THE ENGINEER, OR IN CONTRADICTION TO THE ENGINEER'S DELIVERABLES OR RECOMMENDATIONS, SHALL BECOME THE RESPONSIBILITY NOT OF THE ENGINEER BUT OF THE PARTIES RESPONSIBLE FOR TAKING SUCH ACTION.

FURTHERMORE, PINNACLE ENGINEERING GROUP, LLC IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY OR THE MEANS AND METHODS OF CONSTRUCTION.

DRAFTED: JJS
DESIGNED: JJS
REVIEWED: APM

PLAN | DESIGN | DELIVER
www.pinnacle-engr.com

PINNACLE ENGINEERING GROUP
ENGINEERING | NATURAL RESOURCES | SURVEYING

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2825 MAYFAIR RD, WAUWATOSA, WI
TAXKEYS: 2999986000 & 2999987000

COVER SHEET

REVISIONS

PEG JOB No. 6675.00
PEG PM APM
START DATE 10/23/25
SCALE N.T.S.

SHEET
C-1.0
OF
C-7.2

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COVER SHEET

Z:\PROJECTS\2025\6675.00-WI\CAD\SHEETS\6675.00-WI COVER SHEET.DWG

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DEMOLITION AND CLEARING NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT THE APPROPRIATE GOVERNMENTAL ENTITIES ARE NOTIFIED OF THE WORK AND NECESSARY PERMITS ARE OBTAINED.
2. THE CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF ITEMS/DEBRIS, CLASSIFICATION, AND PROPER DISPOSAL. (E.G. - ARRANGE FOR ADEQUATE COLLECTION AND TRANSPORTATION TO DELIVER THE RECOVERED MATERIALS TO THE APPROVED RECYCLING CENTER OR PROCESSING FACILITY). CONTRACTOR SHALL MAINTAIN RECORDS ACCESSIBLE TO THE OWNER AND GOVERNMENT ENTITIES.
3. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS AND REMOVE DEBRIS IN MANNER TO ENSURE MINIMUM INTERFERENCE WITH ROADS, STREETS, WALKS, AND OTHER ADJACENT OCCUPIED OR USED FACILITIES.
4. THE CONTRACTOR SHALL CONDUCT DEMOLITION OPERATIONS TO PREVENT INJURY TO PEOPLE AND DAMAGE TO ADJACENT BUILDINGS AND FACILITIES DESIGNATED TO REMAIN.
5. THE CONTRACTOR SHALL PROVIDE TEMPORARY BARRICADES AND OTHER FORMS OF PROTECTION AS REQUIRED FOR SAFETY AND SECURITY.
6. THE CONTRACTOR SHALL PROVIDE BARRIERS AND APPROPRIATE SIGNS WHERE NECESSARY TO RESTRICT PEDESTRIANS FROM WANDERING INTO CONSTRUCTION AREAS. PROVIDE ACCEPTABLE TEMPORARY SECURITY BARRIERS WHERE PHYSICAL SECURITY OF BUILDINGS OR FENCES IS COMPROMISED DUE TO DEMOLITION WORK..
7. THE CONTRACTOR SHALL ERECT TEMPORARY ENCLOSURES AS NECESSARY TO LIMIT DUST. USE WATER AS NECESSARY TO LAY DUST WHEN CHIPPING, CORING, OR SAWING CONCRETE, MASONRY OR SIMILAR MATERIALS. WATER MUST BE CONTROLLED INSIDE BUILDINGS BY DAMMING, OR OTHER CONTAINMENT METHOD.
8. THE CONTRACTOR SHALL PROVIDE AND MAINTAIN INTERIOR AND EXTERIOR SHORING, BRACING OR STRUCTURAL SUPPORT TO PRESERVE STABILITY AND PREVENT MOVEMENT, SETTLEMENT, OR COLLAPSE OF STRUCTURES AND ADJACENT FACILITIES THAT ARE NOT PART OF DEMOLITION.
9. THE CONTRACTOR SHALL COMPLETELY BACKFILL BELOW-GRADE AREAS AND VOIDS RESULTING FROM UTILITY REMOVAL AND OTHER DEMOLITION WORK WITH CLOSE GRADED AGGREGATE OR COHESIVE STRUCTURAL FILL.
10. THE CONTRACTOR SHALL RESTORE ANY DEMOLITION PERFORMED IN EXCESS OF THAT REQUIRED.

SITE DIMENSIONAL AND PAVING PLAN NOTES:

1. ALL PAVING DIMENSIONS INCLUDING RADII ARE TO FACE OF CURB UNLESS NOTED.
2. ALL PROPOSED CURB AND GUTTER SHALL BE 18" STANDARD CURB AND GUTTER (SEE DETAIL) UNLESS OTHERWISE NOTED. CURB AND GUTTER DRAINING AWAY FROM THE FACE OF CURB IS NOTED AS REVERSE CURB AND GUTTER.
3. THE CONTRACTOR SHALL CONTACT DIGGERS HOTLINE (1-800-242-8511) PRIOR TO ANY WORK TO LOCATE UTILITIES AND SHALL CONTACT THE OWNER SHOULD UTILITIES APPEAR TO BE IN CONFLICT WITH THE PROPOSED IMPROVEMENTS.
4. REFER TO ELECTRICAL & PHOTOMETRIC SHEETS FOR LIGHTING LOCATIONS, SPECIFICATIONS, AND DETAILS.
5. SEE ADDITIONAL NOTES AND DETAILS ON SITE DIMENSIONAL PLANS AND CONSTRUCTION DETAILS.
6. ALL PAVING SHALL CONFORM TO STATE OF WISCONSIN STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION CURRENT EDITION, HEREAFTER THIS PUBLICATION WILL BE REFERRED TO AS "STATE HIGHWAY SPECIFICATIONS," AND APPLICABLE CITY OF WAUWATOSA ORDINANCES, AND SPECIFICATIONS CONTAINED WITHIN THIS PLAN SET.
7. PAVEMENT MARKING SPECIFICATIONS-

   CODE AND STANDARDS - ALL PAVEMENT MARKINGS SHALL BE INSTALLED IN ACCORDANCE WITH SECTION 646 OF THE STANDARD SPECIFICATIONS. MARKING DIMENSIONS, LOCATIONS, AND LAYOUT SHALL BE IN ACCORDANCE WITH STANDARD DETAIL DRAWINGS 15c7 AND THE PLAN DOCUMENTS.

   SURFACE PREPARATION AND INSTALLATION - THOROUGHLY CLEAN SURFACES FREE OF DIRT, SAND, GRAVEL, OIL AND OTHER FOREIGN MATTER. CONTRACTOR RESPONSIBLE TO INSPECT EXISTING PAVEMENT SURFACES FOR CONDITIONS AND DEFECTS THAT WILL ADVERSELY AFFECT QUALITY OF WORK, AND WHICH CANNOT BE PUT INTO AN ACCEPTABLE CONDITION THROUGH NORMAL PREPARATORY WORK AS SPECIFIED.

   DO NOT PLACE MARKING OVER UNSOUND PAVEMENTS. IF THESE CONDITIONS EXIST, NOTIFY OWNER. STARTING INSTALLATION CONSTITUTES CONTRACTOR'S ACCEPTANCE OF SURFACE AS SUITABLE FOR INSTALLATION.

   LAYOUT MARKINGS USING GUIDE LINES, TEMPLATES AND FORMS. STENCILS AND TEMPLATES SHALL BE PROFESSIONALLY MADE TO INDUSTRY STANDARDS. "FREE HAND" PAINTING OF ARROWS, SYMBOLS, OR WORDING SHALL NOT BE ALLOWED. APPLY STRIPES STRAIGHT AND EVEN.

   PROTECT ADJACENT CURBS, WALKS, FENCES, AND OTHER ITEMS FROM RECEIVING PAINT.

   BARRICADE MARKED AREAS DURING INSTALLATION AND UNTIL THE MARKING PAINT IS DRIED AND READY FOR TRAFFIC.
8. ASPHALT PAVING SPECIFICATIONS-

   CODES AND STANDARDS - THE PLACING, CONSTRUCTION AND COMPOSITION OF THE ASPHALTIC BASE COURSE AND ASPHALTIC CONCRETE SURFACING SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 450, 455, 460 AND 465 OF THE STATE HIGHWAY SPECIFICATIONS.

   WEATHER LIMITATIONS - APPLY TACK COATS WHEN AMBIENT TEMPERATURE IS ABOVE 45° F (10° C) AND WHEN TEMPERATURE HAS NOT BEEN BELOW 35° F (1° C) FOR 12 HOURS IMMEDIATELY PRIOR TO APPLICATION. DO NOT APPLY WHEN BASE IS WET OR CONTAINS EXCESS OF MOISTURE. CONSTRUCT ASPHALTIC CONCRETE SURFACE COURSE WHEN ATMOSPHERIC TEMPERATURE IS ABOVE 40° (4°C) AND WHEN BASE IS DRY AND WHEN WEATHER IS NOT RAINY. BASE COURSE MAY BE PLACED WHEN AIR TEMPERATURE IS ABOVE 30° F (-1° C). FOR CONCRETE PAVEMENTS PLACEMENT IS NOT TO BE PERFORMED IF THE AMBIENT TEMPERATURE IN THE SHADE FALLS BELOW 35° F UNLESS WRITTEN PERMISSION IS OBTAINED FROM THE ENGINEER. IF FREEZING TEMPERATURES ARE FORECASTED WITHIN 24 HOURS OF A POUR PROTECTIVE COATING WILL NEED TO BE APPLIED IN ACCORDANCE WITH 415.3.13.2 OF THE STANDARD SPECIFICATIONS.

   GRADE CONTROL - ESTABLISH AND MAINTAIN REQUIRED LINES AND ELEVATIONS FOR EACH COURSE DURING CONSTRUCTION.

   CRUSHED AGGREGATE BASE COURSE - THE BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS.

   BINDER COURSE AGGREGATE - THE AGGREGATE FOR THE BINDER COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 315, STATE HIGHWAY SPECIFICATIONS.

   SURFACE COURSE AGGREGATE - THE AGGREGATE FOR THE SURFACE COURSE SHALL CONFORM TO SECTIONS 460.2.7 AND 465, STATE HIGHWAY SPECIFICATIONS.

   ASPHALTIC MATERIALS - THE ASPHALTIC MATERIALS SHALL CONFORM TO SECTIONS 455 AND 460, STATE HIGHWAY SPECIFICATIONS.

   SURFACE PREPARATION - NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS. DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.
   THE CONTRACTOR IS RESPONSIBLE TO PERFORM A QUALITY MANAGEMENT PROGRAM (QMP) FOR PLACEMENT OF ALL PAVEMENTS IN ACCORDANCE WITH SECTIONS 460.2.8 FOR HMA AND 715 FOR PCC.
9. CONCRETE PAVING SPECIFICATIONS -
   CODES AND STANDARDS - THE PLACING, CONSTRUCTIONS AND COMPOSITION OF THE CONCRETE PAVEMENT SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF SECTIONS 415 AND 416 OF THE STATE HIGHWAY SPECIFICATIONS.

   CRUSHED AGGREGATE BASE COURSE - THE BASE COURSE SHALL CONFORM TO SECTIONS 301 AND 305, STATE HIGHWAY SPECIFICATIONS. CLEAN RECYCLED CRUSHED CONCRETE MAY BE USED IF APPROVED BY GEOTECH ENGINEER OF RECORD.

   SURFACE PREPARATION - NOTIFY CONTRACTOR OF UNSATISFACTORY CONDITIONS DO NOT BEGIN PAVING WORK UNTIL DEFICIENT SUBBASE AREAS HAVE BEEN CORRECTED AND ARE READY TO RECEIVE PAVING.

GRADING NOTES:

1. THE CONTRACTOR SHALL VERIFY ALL GRADES, ENSURE ALL AREAS DRAIN PROPERLY AND REPORT ANY DISCREPANCIES TO PINNACLE ENGINEERING GROUP PRIOR TO THE START OF ANY CONSTRUCTION ACTIVITIES.
2. ALL EXISTING CONTOURS REPRESENT EXISTING SURFACE GRADES UNLESS OTHERWISE NOTED. ALL PROPOSED GRADES SHOWN ARE FINISH SURFACE GRADES UNLESS OTHERWISE NOTED.
3. SPOT ELEVATIONS REPRESENT THE GRADE ALONG THE EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
4. ALL EXCAVATIONS AND MATERIAL PLACEMENT SHALL BE COMPLETED TO DESIGN ELEVATIONS AS DEPICTED IN THE PLANS.
5. THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR THE COMPUTATION(S) OF ALL GRADING QUANTITIES. WHILE PEG ATTEMPTS TO PROVIDE A COST-EFFECTIVE APPROACH TO BALANCE EARTHWORK, GRADING DESIGN IS BASED ON MANY FACTORS, INCLUDING SAFETY, AESTHETICS, AND COMMON ENGINEERING STANDARD OF CARE, THEREFORE NO GUARANTEE CAN BE MADE FOR A BALANCED SITE.
6. THE CONTRACTOR MAY SOLICIT APPROVAL FROM ENGINEER/OWNER TO ADJUST FINAL GRADES FROM DESIGN GRADES TO PROVIDE AN OVERALL SITE BALANCE AS A RESULT OF FIELD CONDITIONS.
7. GRADING ACTIVITIES SHALL BE IN A MANNER TO ALLOW POSITIVE DRAINAGE ACROSS DISTURBED SOILS, WHICH MAY INCLUDE EXCAVATION OF TEMPORARY DITCHES TO PREVENT PONDING, AND IF NECESSARY PUMPING TO ALLEVIATE PONDING. CONTRACTOR SHALL PREVENT SURFACE WATER FROM ENTERING INTO EXCAVATIONS. IN NO WAY SHALL OWNER BE RESPONSIBLE FOR REMEDIATION OF UNSUITABLE SOILS CREATED/ORIGINATED AS A RESULT OF IMPROPER SITE GRADING OR SEQUENCING. CONTRACTOR SHALL SEQUENCE GRADING ACTIVITIES TO LIMIT EXPOSURE OF DISTURBED SOILS IN ACCORDANCE WITH THE APPROVED STORMWATER POLLUTION PREVENTION PLAN.
8. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION OF ALL PAVEMENT BEARING SURFACES IN ACCORDANCE WITH PART 2 OF THE STATE STANDARDS. THE CONTRACTOR SHALL NOTIFY ENGINEER/OWNER IF PROPER COMPACTION CANNOT BE OBTAINED. THE PROJECT'S GEOTECHNICAL CONSULTANT SHALL DETERMINE WHICH IN-SITU SOILS ARE TO BE CONSIDERED UNSUITABLE SOILS. THE ENGINEER/OWNER AND GEOTECHNICAL TESTING CONSULTANT WILL DETERMINE IF REMEDIAL MEASURES WILL BE NECESSARY.
9. IN THE EVENT THAT ANY MOISTURE-DENSITY TEST(S) FAIL TO MEET SPECIFICATION REQUIREMENTS, THE CONTRACTOR SHALL PERFORM CORRECTIVE WORK AS NECESSARY TO BRING THE MATERIAL INTO COMPLIANCE AND RETEST THE FAILED AREA AT NO COST TO THE OWNER.
10. WITH THE AUTHORIZATION OF THE ENGINEER/OWNER, MATERIAL THAT IS TOO WET TO PERMIT PROPER COMPACTION MAY BE SPREAD ON FILL AREAS IN AN EFFORT TO DRY. CONTRACTOR SHALL CLEARLY FIELD MARK THE EXTERIOR LIMITS OF SPREAD MATERIAL WITH PAINTED LATH AND SUBMIT A PLAN TO THE ENGINEER/OWNER THAT IDENTIFIES THE LIMITS. UNDER NO CONDITION SHALL THE SPREAD MATERIAL DEPTH EXCEED THE MOST RESTRICTIVE OF: THE EFFECTIVE TREATMENT DEPTH OF MACHINERY THAT WILL BE USED TO TURN OVER THE SPREAD MATERIAL; OR THE MAXIMUM COMPACTION LIFT DEPTH.
11. THE CONTRACTOR SHALL IMMEDIATELY NOTIFY ENGINEER/OWNER IF GROUNDWATER IS ENCOUNTERED DURING EXCAVATION.
12. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR THE DESIGN AND CONSTRUCTION OF ADEQUATE AND SAFE TEMPORARY SHORING, BRACING, RETENTION STRUCTURES, AND EXCAVATIONS.
13. THE SITE SHALL BE COMPLETED TO WITHIN 0.10-FT (+/-) OF THE PROPOSED GRADES AS INDICATED WITHIN THE PLANS PRIOR TO PLACEMENT OF TOPSOIL OR AGGREGATE BASE. CONTRACTOR IS ENCOURAGED TO SEQUENCE CONSTRUCTION SUCH THAT THE SITE IS DIVIDED INTO SMALLER AREAS TO ALLOW STABILIZATION OF DISTURBED SOILS IMMEDIATELY UPON COMPLETION OF INDIVIDUAL SMALLER AREAS.
14. THE CONTRACTOR SHALL CONTACT "DIGGER'S HOTLINE" FOR LOCATIONS OF ALL EXISTING UTILITIES PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES AND SHALL BE RESPONSIBLE FOR PROTECTING SAID UTILITIES FROM ANY DAMAGE DURING CONSTRUCTION.
15. THE CONTRACTOR SHALL PROTECT INLETS AND ADJACENT PROPERTIES WITH SILT FENCING OR APPROVED EROSION CONTROL METHODS UNTIL CONSTRUCTION IS COMPLETED. CONTRACTOR SHALL PLACE SILT FENCING AT DOWN SLOPE SIDE OF GRADING LIMITS.
16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING FACILITIES OR UTILITIES. ANY DAMAGE SHALL BE REPAIRED TO THE OWNER'S SATISFACTION AT THE EXPENSE OF THE CONTRACTOR.
17. WORK WITHIN ANY ROADWAY RIGHT-OF-WAY SHALL BE COORDINATED WITH THE APPROPRIATE MUNICIPAL OFFICIAL PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FEES. GRADING WITHIN RIGHT-OF-WAY IS SUBJECT TO APPROVAL BY SAID OFFICIALS. RESTORATION OF RIGHT-OF-WAY IS CONSIDERED INCIDENTAL AND SHALL BE INCLUDED IN THE COST OF GRADING. RESTORATION SHALL INCLUDE ALL ITEMS NECESSARY TO RESTORE RIGHT-OF-WAY IN-KIND INCLUDING LANDSCAPING.
18. THE CONTRACTOR SHALL COMPLY WITH ALL CITY OF WAUWATOSA CONSTRUCTION STANDARDS/ORDINANCES FOR WORK WITHIN THE RIGHT-OF-WAY.
19. LANDSCAPE AND TURF AREAS SHALL HAVE A MINIMUM OF 6-INCH TOPSOIL REPLACEMENT.
20. SURVEY BENCHMARKS AND MAPPING HAVE BEEN PROVIDED BY CHAPUT LAND SURVEY. IN NO WAY DOES PEG WARRANT THE BASEMAP IS ALL-INCLUSIVE OR REPRESENTATIVE OF ACTUAL CONDITIONS. CONTRACTOR SHALL PROVIDE CHECKS AS NECESSARY TO VERIFY THE BASEMAP CONTENT AND ACCURACY.

EROSION AND SEDIMENT CONTROL NOTES:

1. ALL CONSTRUCTION SHALL ADHERE TO THE REQUIREMENTS SET FORTH IN EPA'S NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER GENERAL PERMIT FOR CONSTRUCTION SITE LAND DISTURBANCE ACTIVITIES. ALL EROSION AND SEDIMENT CONTROL MEASURES ARE TO BE CONSTRUCTED AND MAINTAINED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL TECHNICAL STANDARDS AND PROVISIONS IN EFFECT AT THE TIME OF CONSTRUCTION. THESE PROCEDURES AND STANDARDS SHALL BE REFERRED TO AS BEST MANAGEMENT PRACTICES (BMP'S). IT IS THE RESPONSIBILITY OF ALL CONTRACTORS ASSOCIATED WITH THE PROJECT TO OBTAIN A COPY OF, AND UNDERSTAND, THE BMP'S PRIOR TO THE START OF CONSTRUCTION ACTIVITIES.
2. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. ADDITIONAL CONTROL MEASURES AS DIRECTED BY OWNER/ENGINEER OR GOVERNING AGENCIES SHALL BE INSTALLED WITHIN 24 HOURS OF REQUEST.
3. MODIFICATIONS TO THE APPROVED SWPPP IN ORDER TO MEET UNFORESEEN FIELD CONDITIONS ARE ALLOWED IF MODIFICATIONS CONFORM TO BMP'S. ALL MODIFICATIONS MUST BE APPROVED BY OWNER/ENGINEER/GOVERNING AGENCY PRIOR TO DEVIATION OF THE APPROVED PLAN.
4. INSTALL PERIMETER EROSION CONTROL MEASURES (SUCH AS CONSTRUCTION ENTRANCES, SILT FENCE AND EXISTING INLET PROTECTION) PRIOR TO ANY SITE WORK, INCLUDING GRADING OR DISTURBANCE OF EXISTING SURFACE COVER, AS SHOWN ON PLAN IN ORDER TO PROTECT ADJACENT PROPERTIES/STORM SEWER SYSTEMS FROM SEDIMENT TRANSPORT.
5. CONSTRUCTION ENTRANCES SHALL BE INSTALLED AT ALL LOCATIONS OF VEHICLE INGRESS/EGRESS POINTS. CONTRACTOR IS RESPONSIBLE TO COORDINATE LOCATION(S) WITH THE PROPER AUTHORITIES, PROVIDE NECESSARY FEES AND OBTAIN ALL REQUIRED APPROVALS OR PERMITS. ADDITIONAL CONSTRUCTION ENTRANCES OTHER THAN AS SHOWN ON THE PLANS MUST BE APPROVED BY THE APPLICABLE GOVERNING AGENCIES PRIOR TO INSTALLATION.
6. PAVED SURFACES ADJACENT TO CONSTRUCTION ENTRANCES SHALL BE SWEPT AND/OR SCRAPED TO REMOVE ACCUMULATED SOIL, DIRT AND/OR DUST IMMEDIATELY AND AS REQUESTED BY THE GOVERNING AGENCIES.
7. ALL EXISTING STORM SEWER FACILITIES THAT WILL COLLECT RUNOFF FROM DISTURBED AREAS SHALL BE PROTECTED TO PREVENT SEDIMENT DEPOSITION WITHIN STORM SEWER SYSTEMS. INLET PROTECTION SHALL BE IMMEDIATELY FITTED AT THE INLET OF ALL INSTALLED STORM SEWER AND SILT FENCE SHALL BE IMMEDIATELY FITTED AT ALL INSTALLED CULVERT INLETS . ALL INLETS, STRUCTURES, PIPES, AND SWALES SHALL BE KEPT CLEAN AND FREE OF SEDIMENTATION AND DEBRIS.
8. EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, WATER MAIN, ETC.) OUTSIDE OF THE PERIMETER CONTROLS SHALL INCORPORATE THE FOLLOWING:

   PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.

   BACKFILL, COMPACT AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.

   DISCHARGE TRENCH WATER INTO A SEDIMENTATION BASIN OR FILTERING TANK IN ACCORDANCE WITH BMP'S PRIOR TO RELEASE INTO STORM SEWER OR DITCHES.
9. AT A MINIMUM, SEDIMENT BASINS AND NECESSARY TEMPORARY DRAINAGE PROVISIONS SHALL BE CONSTRUCTED AND OPERATIONAL BEFORE BEGINNING OF SIGNIFICANT MASS GRADING OPERATIONS TO PREVENT OFFSITE DISCHARGE OF UNTREATED RUNOFF.
10. IF APPLICABLE, ALL WATERCOURSES AND WETLANDS SHALL BE PROTECTED WITH DOUBLE ROW OF SILT FENCE TO PREVENT ANY DIRECT DISCHARGE FROM DISTURBED SOILS.
11. ALL TEMPORARY AND PERMANENT EROSION CONTROL MEASURES MUST BE MAINTAINED AND REPAIRED AS NEEDED. THE GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR INSPECTION AND REPAIR DURING CONSTRUCTION. THE OWNER WILL BE RESPONSIBLE IF EROSION CONTROL IS REQUIRED AFTER THE CONTRACTOR HAS COMPLETED THE PROJECT.
12. TOPSOIL STOCKPILES SHALL HAVE A BERM OR TRENCH AROUND THE CIRCUMFERENCE AND PERIMETER SILT FENCE TO CONTROL SILT. IF TOPSOIL STOCKPILE REMAINS UNDISTURBED FOR MORE THAN SEVEN (7) DAYS, TEMPORARY SEEDING AND STABILIZATION IS REQUIRED.
13. EROSION CONTROL MEASURES TEMPORARILY REMOVED FOR UNAVOIDABLE CONSTRUCTION ACTIVITIES SHALL BE IN WORKING ORDER IMMEDIATELY FOLLOWING COMPLETION OF SUCH ACTIVITIES OR PRIOR TO THE COMPLETION OF EACH WORK DAY, WHICH EVER OCCURS FIRST.
14. MAINTAIN SOIL EROSION CONTROL DEVICES THROUGH THE DUBATION OF THIS PROJECT. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. DISTURBANCES ASSOCIATED WITH EROSION CONTROL REMOVAL SHALL BE IMMEDIATELY STABILIZED.
15. PUMPS MAY BE USED AS BYPASS DEVICES. IN NO CASE SHALL PUMPED WATER BE DIVERTED OUTSIDE THE PROJECT LIMITS. PUMP DISCHARGE SHALL BE DIRECTED INTO AN APPROVED FILTER BAG OR APPROVED SETTLING DEVICE.
16. GRADING EFFORTS SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. EROSION AND SEDIMENT CONTROL MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR PERMANENT MEASURES. ALL DISTURBED AREAS THAT WILL NOT BE WORKED FOR A PERIOD OF FOURTEEN (14) DAYS REQUIRE TEMPORARY SEEDING FOR EROSION CONTROL. SEEDING FOR EROSION CONTROL SHALL BE IN ACCORDANCE WITH TECHNICAL STANDARDS.
17. ALL DISTURBED SLOPES EXCEEDING 4:1, SHALL BE STABILIZED WITH NORTH AMERICAN GREEN S75BN EROSION MATTING (OR APPROVED EQUAL) AND ALL CHANNELS SHALL BE STABILIZED WITH NORTH AMERICAN GREEN C125BN (OR APPROVED EQUAL) OR APPLICATION OF AN APPROVED POLYMER SOIL STABILIZATION TREATMENT OR A COMBINATION THEREOF, AS REQUIRED. EROSION MATTING AND/OR NETTING USED ONSITE SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDELINES.
18. DURING PERIODS OF EXTENDED DRY WEATHER, THE CONTRACTOR SHALL KEEP A WATER TRUCK ON SITE FOR THE PURPOSE OF WATERING DOWN SOILS WHICH MAY OTHERWISE BECOME AIRBORNE. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING WIND EROSION (DUST) DURING CONSTRUCTION AT HIS/HER EXPENSE.
19. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE VISUALLY INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM ON A DAILY BASIS.
20. QUALIFIED PERSONNEL (PROVIDED BY THE GENERAL/PRIME CONTRACTOR) SHALL INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED AND EROSION AND SEDIMENT CONTROLS WITHIN 24 HOURS OF ALL 0.5-INCH, OR MORE, PRECIPITATION EVENTS WITH A MINIMUM INSPECTION INTERVAL OF ONCE EVERY SEVEN (7) CALENDAR DAYS IN THE ABSENCE OF A QUALIFYING RAIN OR SNOWFALL EVENT. REPORTING SHALL BE IN ACCORDANCE WITH THE GENERAL PERMIT. CONTRACTOR SHALL IMMEDIATELY ARRANGE TO HAVE ANY DEFICIENT ITEMS REVEALED DURING INSPECTIONS REPAIRED/REPLACED.
21. SEE ADDITIONAL DETAILS AND NOTES ON SITE STABILIZATION AND CONSTRUCTION DETAILS.

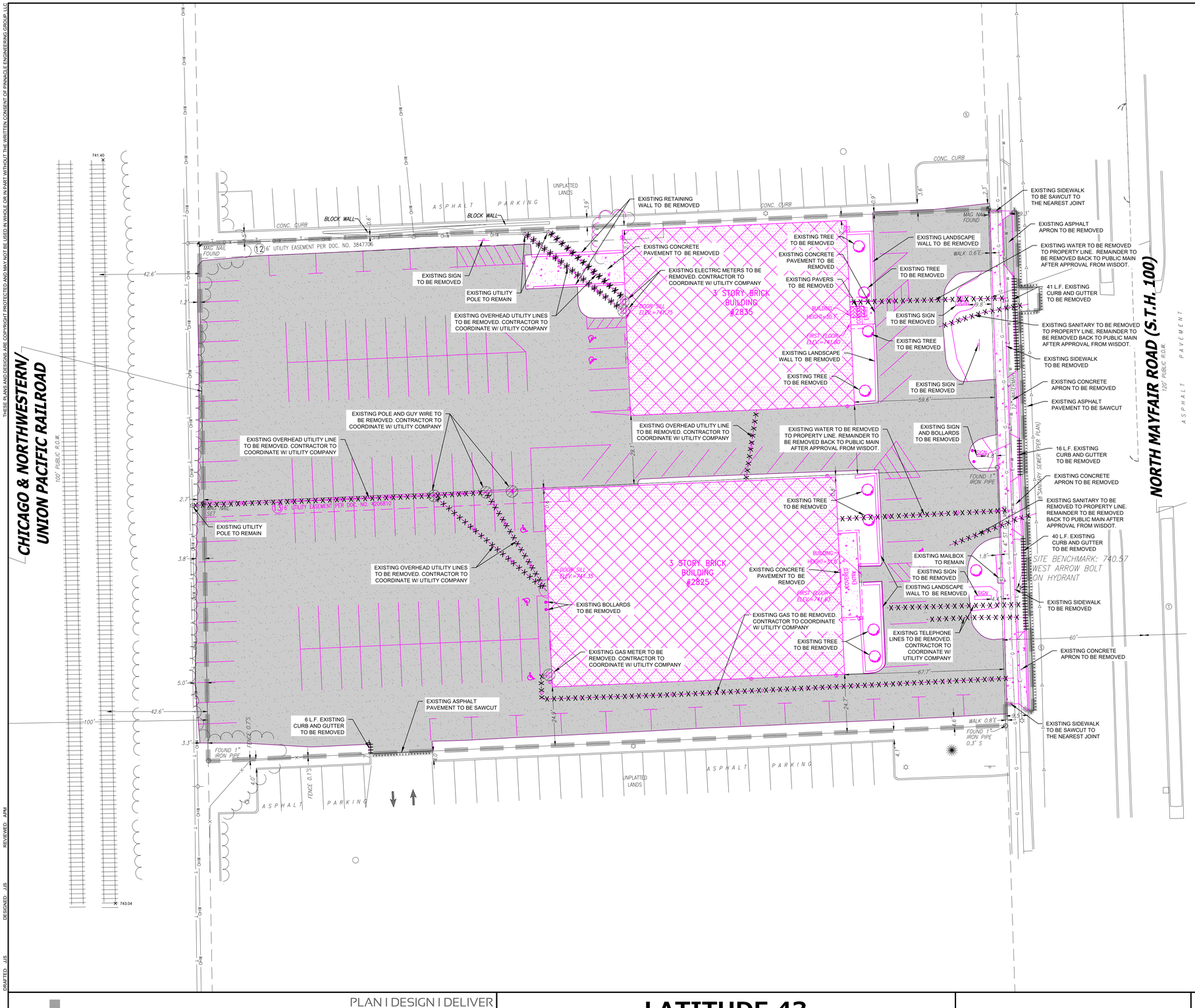
CITY OF WAUWATOSA EROSION CONTROL NOTES:

1. SITE DEWATERING. WATER PUMPED FROM THE SITE SHALL BE TREATED BY SEDIMENT BASINS OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICES SPECIFIED IN THE WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICES (BMP) HANDBOOK. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, ADJACENT SITE, OR RECEIVING CHANNELS.
2. WASTE AND MATERIAL DISPOSAL. ALL WASTE AND UNUSED BUILDING MATERIALS INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
3. TRACKING. EACH SITE SHALL HAVE GRAVELED ROADS, ACCESS DRIVES AND PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH TO PREVENT SEDIMENT FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SEDIMENT REACHING A PUBLIC OR PRIVATE ROAD SHALL BE REMOVED BY STREET CLEANING, TO THE SATISFACTION OF THE CITY, BEFORE THE END OF EACH WORKDAY. FLUSHING MAY NOT BE USED UNLESS SEDIMENT WILL BE CONTROLLED BY A SEDIMENT BASIN OR OTHER APPROPRIATE BEST MANAGEMENT PRACTICE SPECIFIED IN THE BMP HANDBOOK.
4. SEDIMENT CLEANUP. ALL OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF A STORM EVENT SHALL BE CLEANED UP BY THE END OF THE NEXT WORK DAY. ALL OTHER OFF-SITE SEDIMENT DEPOSITS OCCURRING AS A RESULT OF CONSTRUCTION ACTIVITIES SHALL BE CLEANED UP BY THE END OF THE WORK DAY.
5. ALL ACTIVITIES ON THE SITE SHALL BE CONDUCTED IN A LOGICAL SEQUENCE TO MINIMIZE THE AREA OF BARE SOIL EXPOSED AT ANY ONE TIME.
6. ALL DISTURBED GROUND LEFT INACTIVE FOR SEVEN OR MORE DAYS SHALL BE STABILIZED BY TEMPORARY OR PERMANENT SEEDING,, TEMPORARY OR PERMANENT SEEDING AND MULCHING, SODDING, COVERING WITH TARPS, OR EQUIVALENT BEST MANAGEMENT PRACTICESD. IF TEMPORARY SEEDING IS USED, A PERMANENT COVER SHALL ALSO BE REQUIRED AS A PART OF THE FINAL SITE STABILIZATION. SEEDING OR SODDING SHALL BE REQUIRED AS PART OF THE FINAL SITE STABILIZATION.
7. SOIL OR DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSLIDE ROAD, LAKE, STREAM, WETLAND, OR DRAINAGE CHANNEL. STRAW BALE OR FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWN SLOPE SIDE OF THE PILES. IF REMAINING FOR MORE THAN SEVEN DAYS, PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS OR OTHER MEANS.
8. WHEN DISTURBED AREA HAS BEEN STABILIZED NY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BEST MANAGEMENT PRACTICES SUCH AS FILTER FABRIC FENCES, STRAW BALES, SEDIMENT AND SEDIMENT TRAPS SHALL BE REMOVED.
9. NOTIFY THE CITY ENGINEERING DEPARTMENT (479-8934) WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.
10. NOTIFY THE CITY OF COMPLETION OF ANY BEST MANAGEMENT PRACTICES WITHIN THE NEXT WORKING DAY AFTER THEIR INSTALLATION.
11. OBTAIN PERMISSION IN WRITING FROM THE CITY OF WAUWATOSA ENGINEERING DEPARTMENT PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
12. REPAIR ANY SILTATION OR EROSION DAMAGE TO ADJOINING SURFACES AND DRAINAGE WAYS RESULTING FROM LAND DEVELOPMENT OR LAND DISTURBING ACTIVITIES.
13. INSPECT THE BEST MANAGEMENT PRACTICES AFTER EACH RAIN OF .5 INCH OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE NEEDED REPAIRS

UTILITY NOTES:

1. EXISTING UTILITIES ARE SHOWN FOR INFORMATIONAL PURPOSES ONLY AND ARE NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. CONTRACTOR IS RESPONSIBLE FOR VERIFYING THE TYPE, LOCATION, SIZE AND ELEVATION OF UNDERGROUND UTILITIES AS THEY DEEM NECESSARY FOR PROPOSED UTILITY CONNECTIONS AND/OR TO AVOID DAMAGE THERETO. CONTRACTOR SHALL CALL "DIGGER'S HOTLINE" PRIOR TO ANY CONSTRUCTION.
2. ALL UTILITY WORK SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR SEWER AND WATER CONSTRUCTION IN WISCONSIN (LATEST EDITION AND ADDENDUM) AND ALL STATE AND LOCAL CODES AND SPECIFICATIONS. IT IS THE CONTRACTORS RESPONSIBILITY TO DETERMINE WHICH SPECIFICATIONS AND CODES APPLY, AND TO COORDINATE ALL CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE LOCAL AND STATE AUTHORITIES.
3. UTILITY CONSTRUCTION AND SPECIFICATIONS SHALL COMPLY WITH THE CITY OF WAUWATOSA SPECIAL PROVISIONS AND WISCONSIN DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES COMM 82.
4. LENGTHS OF PROPOSED UTILITIES ARE TO CENTER OF STRUCTURES OR FITTINGS AND MAY VARY SLIGHTLY FROM PLAN. LENGTHS ARE SHOWN FOR CONTRACTOR CONVENIENCE ONLY. CONTRACTOR IS SOLELY RESPONSIBLE FOR COMPUTATIONS OF MATERIALS REQUIRED TO COMPLETE WORK. LENGTHS SHALL BE FIELD VERIFIED DURING CONSTRUCTION.
5. THE CONTRACTOR SHALL ADJUST AND/OR RECONSTRUCT EXISTING UTILITY COVERS (SUCH AS MANHOLE COVERS, VALVE BOX COVERS, ETC.) TO MATCH FINISHED GRADES OF THE AREAS DISTURBED DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL FIELD VERIFY LOCATIONS, ELEVATIONS, AND SIZES OF PROPOSED UTILITIES AND CHECK ALL UTILITY CROSSINGS FOR CONFLICTS PRIOR TO ATTEMPTING CONNECTIONS AND BEGINNING UTILITY CONSTRUCTION AND NOTIFY THE OWNER OF ANY DISCREPANCIES OR CONFLICTS.
7. ALL ON-SITE SANITARY, STORM AND WATER UTILITIES SHALL BE PRIVATELY OWNED AND MAINTAINED BY THE PROPERTY OWNER. EXCEPT FOR THOSE LOCATED WITHIN THE PUBLIC RIGHT-OF-WAY WILL BE OWNED AND MAINTAINED BY THE CITY OF WAUWATOSA.
8. THE CONTRACTOR SHALL CONTACT THE CITY OF WAUWATOSA 48-HOURS IN ADVANCE OF STORM

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NORTH

GRAPHICAL SCALE (FEET)

0 1" = 20' 40'

DEMOLITION LEGEND

- REMOVE EXISTING FEATURE
- REMOVE CONC. CURB & GUTTER
- REMOVE UTILITY (SEE DESCRIPTION ON PLANS)
- SAWCUT EXISTING PAVEMENT
- REMOVE EXISTING CONCRETE
- REMOVE EXISTING ASPHALT
- REMOVE EXISTING BUILDING
- REMOVE EXISTING UTILITY

EXISTING CONDITIONS SURVEY

EXISTING CONDITIONS SURVEY PROVIDED BY CHAPUT LAND SURVEYS. ALTHOUGH PEG HAS NO REASON TO BELIEVE THE SURVEY IS INACCURATE, PEG MAKES NO WARRANTS THAT EXISTING INFORMATION CONTAINED WITHIN THESE PLANS IS ALL-INCLUSIVE OR ACCURATE. CONTRACTOR SHALL UNDERTAKE NECESSARY EFFORTS TO VERIFY THE EXISTING CONDITIONS PRIOR TO THE START OF MATERIAL PROCUREMENT AND CONSTRUCTION EFFORTS/ACTIVITIES.

CONTRACTOR RESPONSIBILITY

THE INFORMATION SHOWN ON THIS DRAWING CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. IF ADDITIONAL UTILITIES ARE KNOWN TO EXIST IN THE PROPERTY, THE OWNER WILL PROVIDE EXISTING PLANS OF OTHER UTILITIES SERVING THE SITE AND THE BUILDING THAT OTHERWISE CANNOT BE LOCATED BY A VISUAL OBSERVATION OF THE PROPERTY OR OF WHICH THE SURVEYOR WOULD HAVE NO KNOWLEDGE.

REFER TO SHEET #### FOR DEMOLITION AND CLEARING NOTES

ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A STREET OCCUPANCY PERMIT FROM THE CITY.

www.pinnacle-engr.com

EXISTING CONDITIONS & DEMOLITION PLAN

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REVIEWED: APM
DESIGNED: JJS
DRAFTED: JJS

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TAXKEYS: 2999986000 & 2999987000

EXISTING CONDITIONS & DEMOLITION PLAN

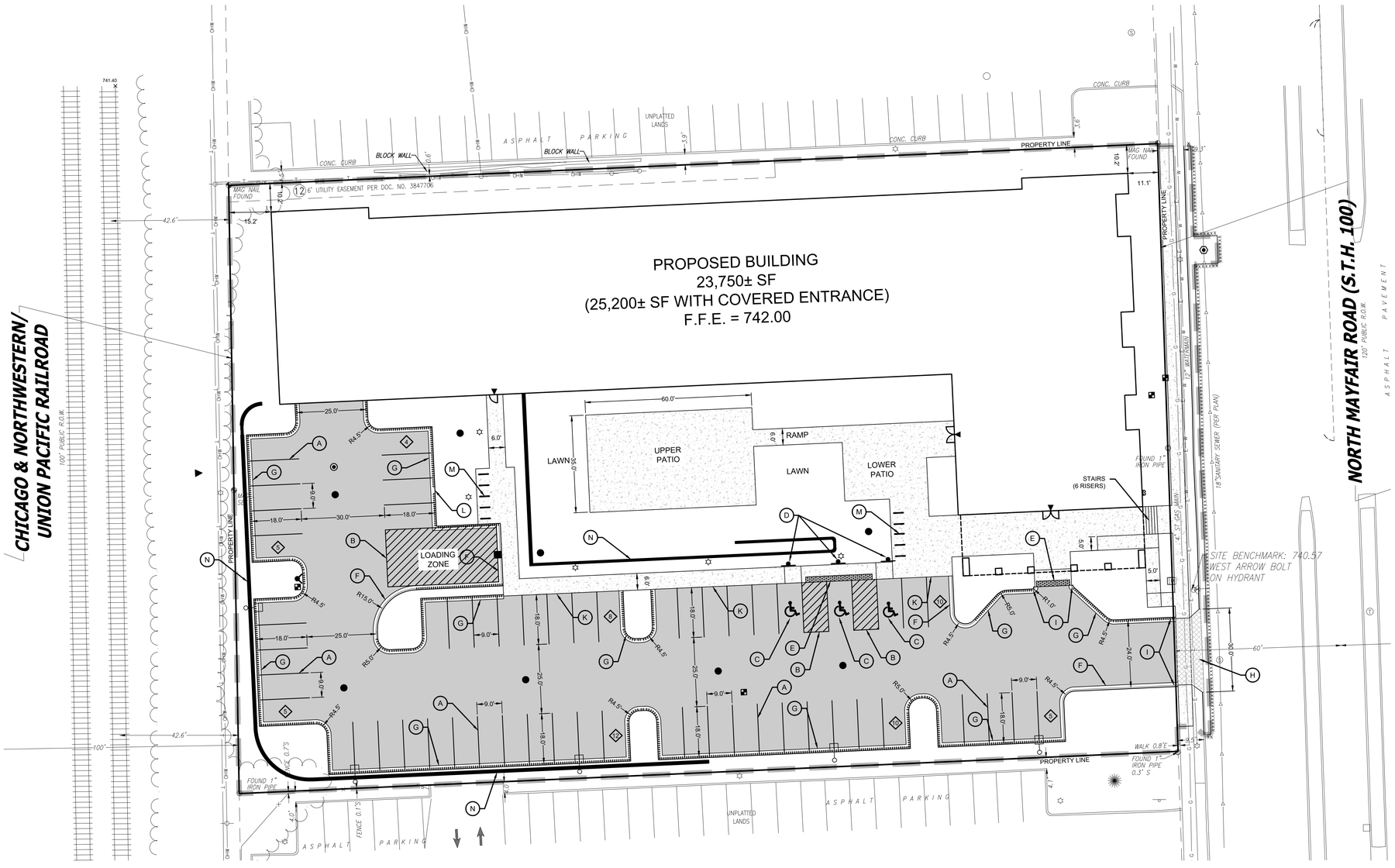
REVISIONS

PEG JOB NO. 6675.00
PEG PM APM
START DATE 10/23/25
SCALE 1" = 20'

SHEET
C-3.0
OF
C-7.2

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NORTH

GRAPHICAL SCALE (FEET)

0 1" = 20' 40'

LEGEND

- LIGHT DUTY PAVEMENT
  - 8" CRUSHED AGGREGATE BASE COURSE (1-1/2" DENSE GRADED AGGREGATE)
  - 4" ASPHALTIC CONC. (2 LIFTS)
    - 2" BINDER LAYER (5 LT 58-28 S)
    - 2" SURFACE LAYER (4 LT 58-28 S)
- CONCRETE PAVEMENT
  - 6" CRUSHED AGGREGATE BASE COURSE (1-1/2" DENSE GRADED AGGREGATE)
  - 8" PCC (4000 PSI AIR ENTRAINED CONCRETE)
- CONCRETE SIDEWALK
  - 6" CRUSHED AGGREGATE BASE COURSE (1-1/2" DENSE GRADED AGGREGATE)
  - 5" PCC
- REGULAR 18" VERTICAL FACE CURB
- REVERSE 18" VERTICAL FACE CURB
- (A) SOLID PARKING STRIPE, 3" PAINT (WHITE)
- (B) SOLID DIAGONAL STRIPE AT 45° SPACED 2' O.C., 3" PAINT (WHITE)
- (C) ADA SYMBOL, PAINT (COLOR PER CODE)
- (D) HANDICAP PARKING SIGN (SEE DETAIL)
- (E) ADA COMPLIANT RAMP WITH TRUNCATED DOMES AND DEPRESSED CURB (SEE DETAIL)
- (F) REGULAR 18" VERTICAL FACE CURB (SEE DETAIL)
- (G) REVERSE 18" VERTICAL FACE CURB (SEE DETAIL)
- (H) DRIVEWAY APRON (SEE DETAIL)
- (I) TAPER CURB HEAD (SEE DETAIL)
- (K) INTEGRAL CURB & WALK (SEE DETAIL)
- (L) CURB CUT (SEE DETAIL)
- (M) BIKE RACK (SEE DETAIL)
- (N) RETAINING WALL (SEE DETAIL)
- MAN DOOR

SITE DATA TABLE

TOTAL PROPERTY AREA:	**73,952 SF (1.6977 AC)**
EXISTING IMPERVIOUS AREA:	**69,920 SF (1.6051 AC)**
EXISTING PERVIOUS AREA:	**4,032 SF (0.0926 AC)**
PROPOSED IMPERVIOUS AREA:	**53,212 SF (1.2216 AC)**
PROPOSED PERVIOUS AREA:	**20,740 SF (0.4761 AC)**
PROPOSED PERVIOUS RATIO:	**0.28**
TOTAL DISTURBANCE AREA:	**76,543 SF (1.7572 AC)**
NET IMPERVIOUS AREA DECREASE:	**15,883 SF (0.3646 AC)**

EXISTING PARKING STALL COUNT:
- **TOTAL PARKING STALLS: 154 STALLS**
- **SURFACE PARKING: 140 STALLS (5 ADA STALLS (1 VAN))**
- **INTERIOR PARKING: 14 STALLS**

PROPOSED PARKING STALL COUNT:
- **REQUIRED PARKING STALLS: 105 STALLS**
- **PROVIDED PARKING STALLS: 110 STALLS**
- **SURFACE PARKING: 59 STALLS (3 ADA STALLS (1 VAN))**
- **INTERIOR PARKING: 51 STALLS (4 ADA STALLS (1 VAN))**

PROPOSED BICYCLE PARKING STALL COUNT:
- **SHORT TERM BICYCLE PARKING:**
  - **REQUIRED: 19 STALLS (1 SPACE PER 5 DWELLING)**
  - **PROVIDED: 20 STALLS**
- **LONG TERM BICYCLE PARKING:**
  - **REQUIRED: 23 STALLS (1 SPACE PER 4 DWELLING)**
  - **PROVIDED: 23 STALLS**

PROPOSED BUILDING UNIT BREAKDOWN:
- **STUDIO: 17 UNITS (18% UNIT TYPE)**
- **1 BEDROOM: 52 UNITS (57% UNIT TYPE)**
- **2 BEDROOM: 20 UNITS (22% UNIT TYPE)**
- **3 BEDROOM: 3 UNITS (3% UNIT TYPE)**
- **TOTAL DWELLINGS: 92 UNITS**

EXISTING CONDITIONS SURVEY

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CONTRACTOR RESPONSIBILITY

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ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY REQUIRES A STREET OCCUPANCY PERMIT FROM THE CITY.

REVIEWED: APM
DESIGNED: JJS
DRAFTED: JJS

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ENGINEERING | NATURAL RESOURCES | SURVEYING
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BROOKFIELD, WI 53186
(262) 754-8888
CHICAGO | MILWAUKEE | NATIONWIDE

LATITUDE 43

2825 MAYFAIR RD, WAUWATOSA, WI
TAXKEYS: 2999986000 & 2999987000

SITE DIMENSIONAL PLAN

REVISIONS

PEG JOB No. 6675.00
PEG PM APM
START DATE 10/23/25
SCALE 1" = 20'

SHEET
C-4.0
OF
C-7.2

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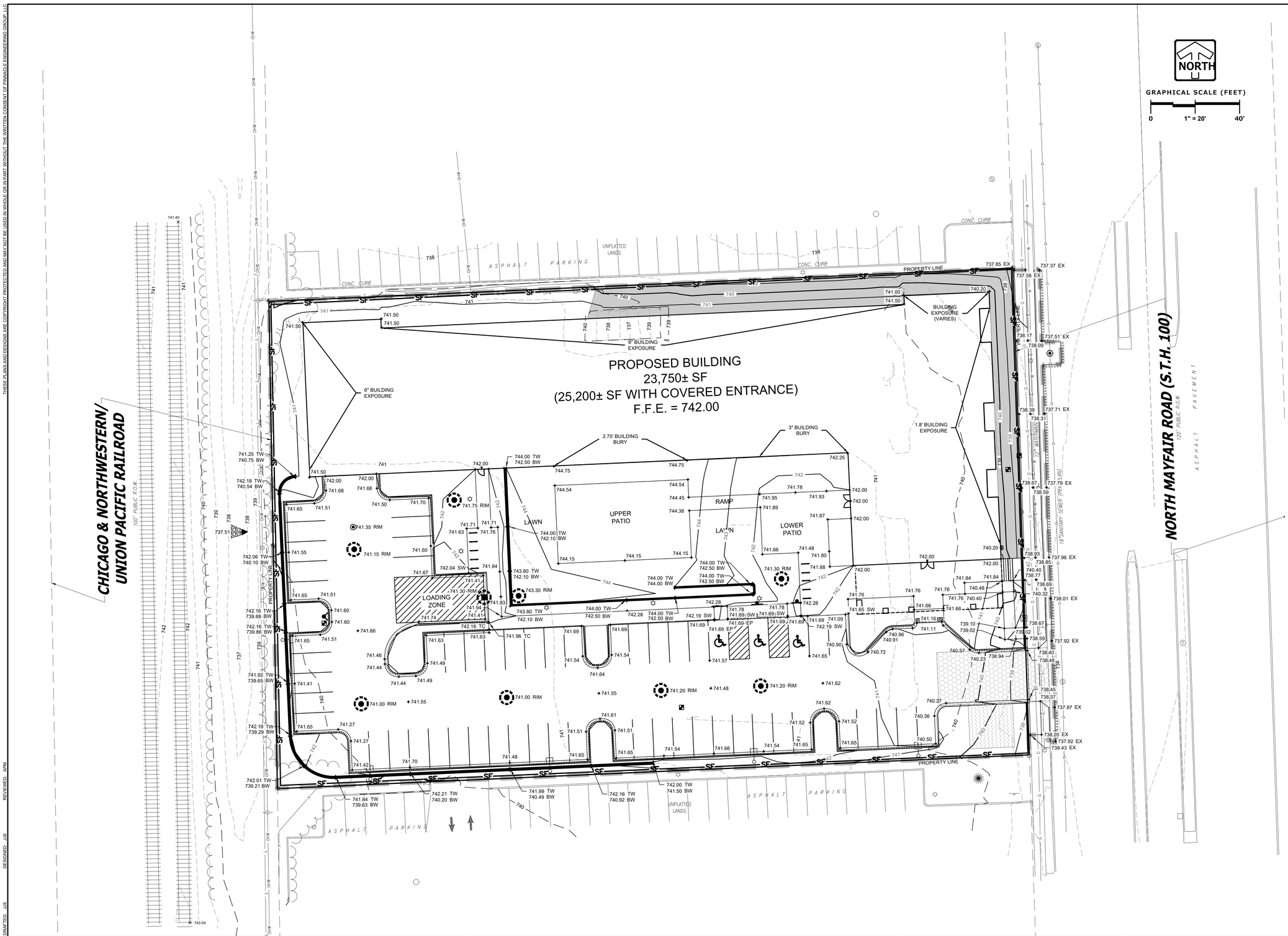
SITE DIMENSIONAL PLAN

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LEGEND

- STORM SEWER MANHOLE
- STORM SEWER CATCH BASIN - ROUND CASTING
- STORM SEWER CATCH BASIN - RECTANGULAR CASTING
- PROPOSED FLARED END SECTION
- PROPOSED CONTOUR
- EXISTING CONTOUR
- DIRECTION OF SURFACE FLOW
- OVERLAND RELIEF ROUTING
- SILT FENCE
- INLET PROTECTION
- EROSION CONTROL BLANKET - CHANNEL: NORTH AMERICAN GREEN C125BN OR EQUAL - NON-CHANNEL: NORTH AMERICAN GREEN S75 OR EQUAL
- STOCKPILE
- TRACKING PAD - MANUFACTURE TRACKING PER WDNR TECHNICAL STANDARD 1057 - SEE DETAIL
- CONCRETE WASHOUT
- RIP RAP - SEE DETAIL
- DISTURBANCE LIMIT

REFER TO C-2.0 FOR GRADING NOTES, AND EROSION AND SEDIMENT CONTROL NOTES

REFER TO SHEETS C-7.0 THRU C-7.2 FOR CONSTRUCTION DETAILS

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CITY OF WAUWATOSA NOTES

1. NOTIFY THE CITY ENGINEERING DEPARTMENT (479-8934) WITHIN TWO WORKING DAYS OF COMMENCING ANY LAND DEVELOPMENT OR LAND DISTURBING ACTIVITY.
2. NOTIFY THE CITY OF COMPLETION OF ANY BEST MANAGEMENT PRACTICES WITHIN THE NEXT WORKING DAY AFTER THEIR INSTALLATION.
3. OBTAIN PERMISSION IN WRITING FROM THE CITY OF WAUWATOSA ENGINEERING DEPARTMENT PRIOR TO MODIFYING THE EROSION CONTROL PLAN.
4. INSPECT THE BEST MANAGEMENT PRACTICES AFTER EACH RAIN RAIN EVENT OF 0.5 INCHES OR MORE AND AT LEAST ONCE EACH WEEK AND MAKE REPAIRS.
5. SOIL OR DIRT STORAGE PILES SHALL BE LOCATED A MINIMUM OF TWENTY-FIVE FEET FROM ANY DOWNSTREAM ROAD, LAKE, STREAM, WETLAND OR DRAINAGE CHANNEL. STRAW BALE OR FILTER FABRIC FENCES SHALL BE PLACED ON THE DOWNSIDE OF THE PILES. IF REMAINING FOR MORE THEN SEVEN DAYS, PILES SHALL BE STABILIZED BY MULCHING, VEGETATIVE COVER, TARPS OR OTHER MEANS.

REVIEWED: APM
DESIGNED: JJS
DRAFTED: JJS

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GRADING AND EROSION CONTROL PLAN

REVISIONS

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SCALE 1" = 20'

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C-5.0
OF
C-7.2

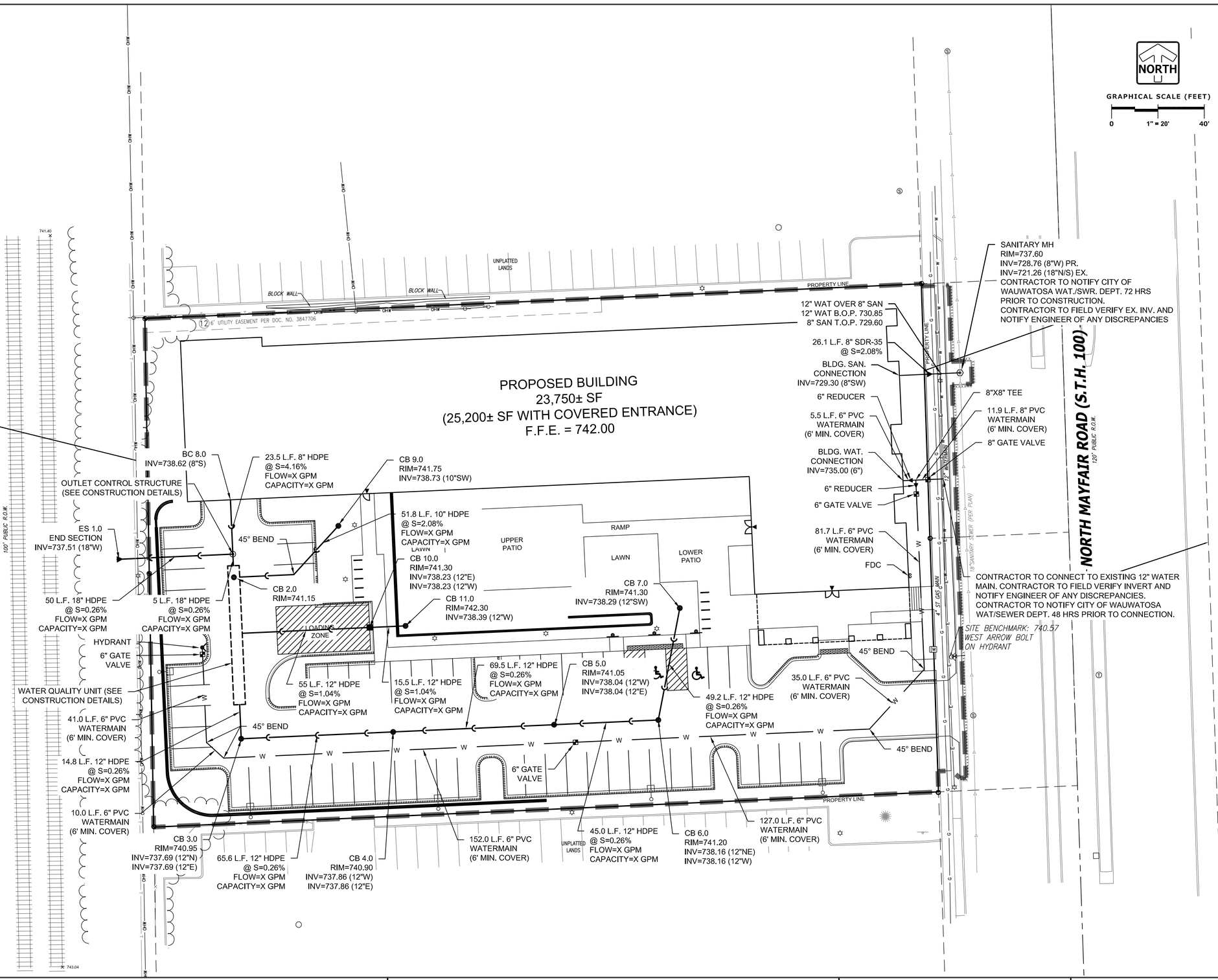
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GRADING AND EROSION CONTROL PLAN

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LEGEND

- SANITARY SEWER MANHOLE
- STORM SEWER MANHOLE
- STORM SEWER CATCH BASIN - ROUND CASTING
- STORM SEWER CATCH BASIN - RECTANGULAR CASTING
- PROPOSED FLARED END SECTION
- CLEANOUT
- VALVE BOX
- FIRE HYDRANT
- LIGHT POLE
- ELECTRICAL TRANSFORMER OR PEDESTAL
- SANITARY SEWER
- STORM SEWER
- W — WATER MAIN
- UTILITY CROSSING
- ELECTRICAL SERVICE
- GAS MAIN
- TELEPHONE LINE

STRUCTURE SIZING SHALL BE CONFIRMED BY SUPPLIER

REFER TO C-2.0 FOR UTILITY NOTES

REFER TO SHEETS C-7.0 THRU C-7.2 FOR CONSTRUCTION DETAILS

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REVIEWED: APM
DESIGNED: AJS
DRAFTED: AJS

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UTILITY PLAN

REVISIONS

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C-7.2

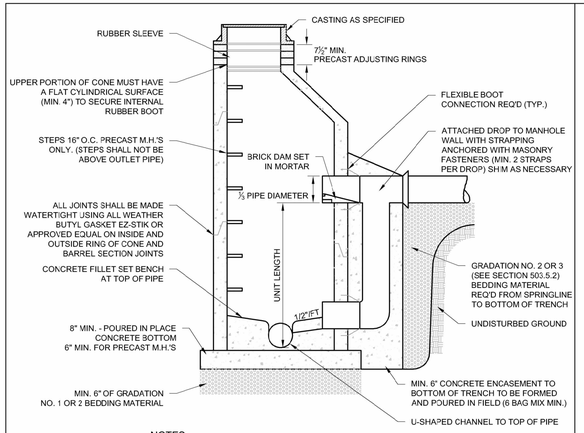
UTILITY PLAN

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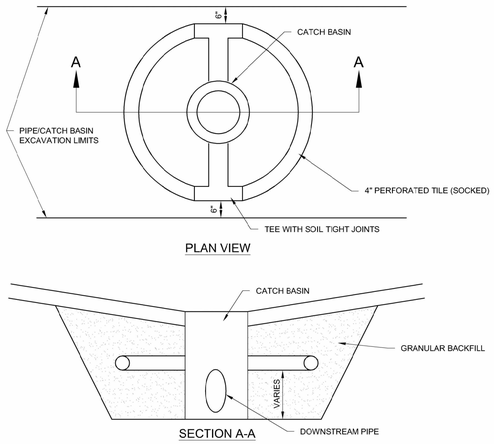


NOTES:

1. DROP PIPE AND FITTING SHALL BE SAME MATERIAL AND SIZE AS INCOMING SEWER. CONCRETE ENCASEMENT SHALL CURE FOR A MINIMUM OF 24 HOURS BEFORE TRENCH IS BACKFILLED.
2. MANHOLE TO BE IN ACCORDANCE WITH STANDARD SANITARY MANHOLE DETAIL.
3. INVERT OF DROP SEWER IS TO BE THE SAME ELEVATION AS THE SPRING LINE OF THE LARGEST MAIN LINE SEWER PIPE

OUTSIDE DROP MANHOLE

#401 01/25/13

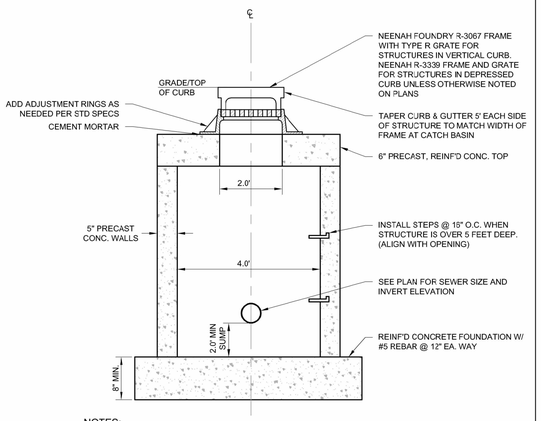


NOTES:

1. DRAINTILE INVERTS SHALL BE PLACED AT OR ABOVE CROWN OF DOWNSTREAM PIPE.

CATCH BASIN - UNDERDRAIN

#315 08/28/23

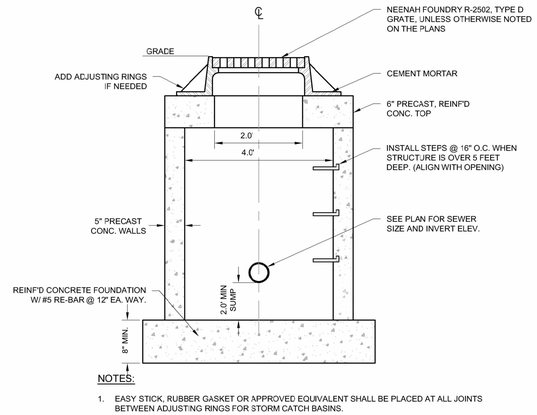


NOTES:

1. EASY STICK, RUBBER GASKET OR APPROVED EQUIVALENT SHALL BE PLACED AT ALL JOINTS BETWEEN ADJUSTING RINGS FOR STORM CATCH BASINS.
2. THE FLAT TOP MAY BE USED IN LIEU OF THE TAPERED TOP WHEN FIELD CONDITIONS PROHIBIT USE OF A TAPERED TOP.
3. STRUCTURES TO BE 4' DIA. OR AS INDICATED ON THE PLANS.

CATCH BASIN - CURB

#305 10-10-12

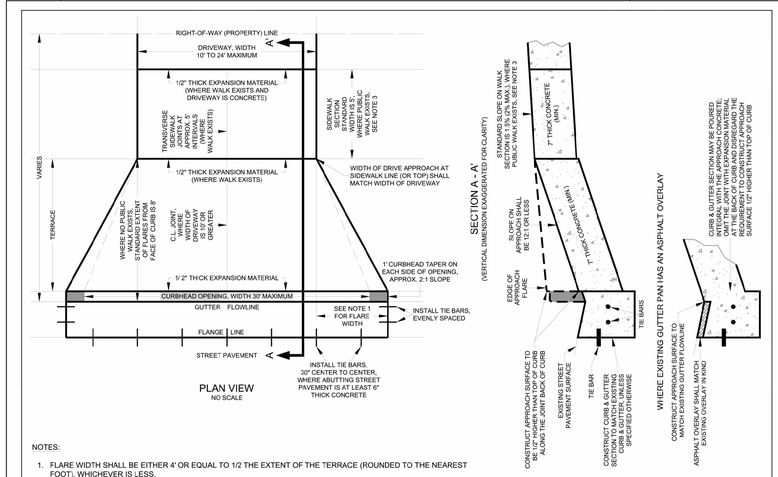


NOTES:

1. EASY STICK, RUBBER GASKET OR APPROVED EQUIVALENT SHALL BE PLACED AT ALL JOINTS BETWEEN ADJUSTING RINGS FOR STORM CATCH BASINS.
2. THE FLAT TOP MAY BE USED IN LIEU OF THE TAPERED TOP WHEN FIELD CONDITIONS PROHIBIT USE OF A TAPERED TOP.
3. STRUCTURE TO BE 4.0' DIA. OR AS INDICATED ON THE PLANS.

CATCH BASIN

#302 10-04-12



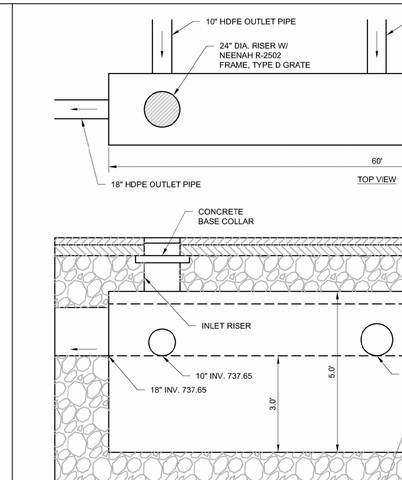
NOTES:

1. FLARE WIDTH SHALL BE EITHER 4' OR EQUAL TO 1/2 THE EXTENT OF THE TERRACE (ROUNDED TO THE NEAREST FOOT), WHICHEVER IS LESS.
2. WHERE POSSIBLE, DRIVE APPROACHES SHALL BE CONSTRUCTED SO THAT 8" OF WATER DEPTH IN THE GUTTER FLOWLINE CANNOT LEAVE THE CITY PUBLIC RIGHT-OF-WAY. EXCEPTIONS MUST BE APPROVED IN WRITING BY THE ENGINEERING SERVICES.
3. SIDEWALK SECTION IS OPTIONAL WHERE NO PUBLIC SIDEWALK EXISTS. IF THE OPTIONAL SIDEWALK SECTION IS OMITTED THEN A STRAIGHT GRADE MAY BE BUILT FROM BACK OF CURB TO 15' BACK OF CURB FACE OR TO THE RIGHT-OF-WAY (PROPERTY) LINE, WHICHEVER IS LESS; SLOPE SHALL BE 12:1 OR LESS.

CITY OF WAUWATOSA
ENGINEERING SERVICES DIVISION

DETAIL D1: TYPICAL DRIVEWAY & ALLEY APPROACH - P.C. CONCRETE

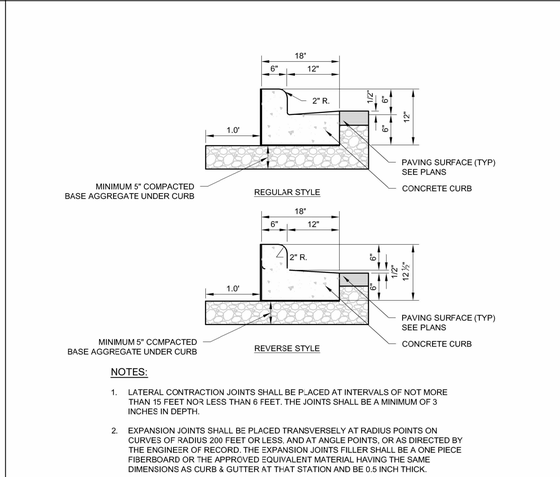
REVISED MAY, 2020



NOTES:

1. UNDERGROUND WATER QUALITY UNIT SHALL BE CONSTRUCTED USING HDPE PIPE AND FITTINGS. INSTALL PIPE AND FITTINGS PER MANUFACTURER'S RECOMMENDATIONS.
2. INSTALL INLET RISER AS INDICATED.
3. BASE COLLAR SHALL BE 4'X4' CONCRETE SLAB WITH A MINIMUM THICKNESS OF 6 INCHES.

WATER QUALITY UNIT

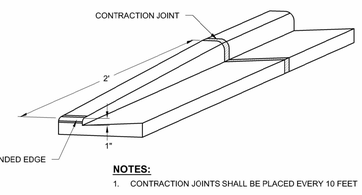


NOTES:

1. LATERAL CONTRACTION JOINTS SHALL BE PLACED AT INTERVALS OF NOT MORE THAN 15 FEET NOR LESS THAN 6 FEET. THE JOINTS SHALL BE A MINIMUM OF 3 INCHES IN DEPTH.
2. EXPANSION JOINTS SHALL BE PLACED TRANSVERSELY AT RADIUS POINTS ON CURVES OF RADIUS 200 FEET OR LESS, AND AT ANGLE POINTS, OR AS DIRECTED BY THE ENGINEER OR RECORD. THE EXPANSION JOINTS FILLER SHALL BE A ONE PIECE FIBERBOARD OR THE APPROVED EQUIVALENT MATERIAL HAVING THE SAME DIMENSIONS AS CURB & GUTTER AT THAT STATION AND BE 0.5 INCH THICK.
3. IN ALL CASES, CONCRETE CURB & GUTTER SHALL BE PLACED ON THOROUGHLY COMPACTED CRUSHED STONE.
4. REVERSE STYLE CURB LOCATIONS ARE NOTED ON THE PLANS.

18" VERTICAL FACE CURB

#602.W1 10-27-17

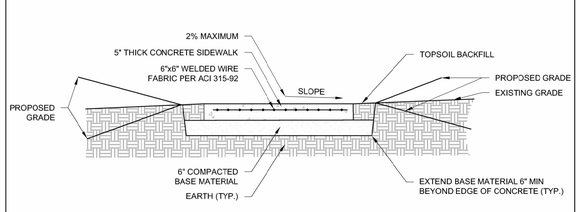


NOTES:

1. CONTRACTION JOINTS SHALL BE PLACED EVERY 10 FEET
2. EXPANSION JOIN'S (3/4" EXPANSION FIBER MATERIAL) SHALL BE PLACED EVERY 300 FEET AND AT EVERY PC/PT AND 3 FEET FROM STRUCTURES

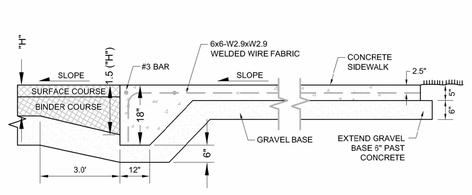
TAPER CURB HEAD

#620 10-11-12



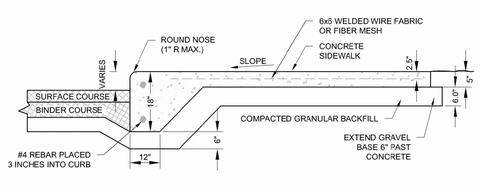
CONCRETE SIDEWALK

#607 10-11-13



WALK FLUSH WITH PAVEMENT

#624 4/30/12



INTEGRAL CURB AND SIDEWALK

#617 12-28-12

REVIEWED: APM
DESIGNED: MS
DRAFTED: MS

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CONSTRUCTION DETAILS

REVISIONS

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START DATE 10/23/25
SCALE N.T.S.

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OF
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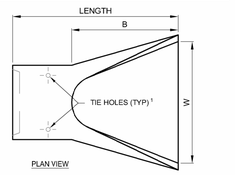
CONSTRUCTION DETAILS

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PIPE DIAMETER D	LENGTH	T	A	B	W	WEIGHT PER SECTION
INCHES	FEET	INCHES	INCHES	INCHES	INCHES	LBS.
12	6'-0"	2	4	24	24	530
15	6'-0"	2 1/4	6	27	30	740
18	6'-0"	2 1/2	9	27	36	990
21	6'-0"	2 3/4	9	36	42	1280
24	6'-0"	3	9 1/2	43 1/2	48	1520
27	6'-0"	3 1/4	10 1/2	49 1/2	54	1930
30	6'-0"	3 1/2	12	54	60	2190
33	6'-6"	3 3/4	13 1/2	58 1/2	66	3850
36	8'-2"	4	15	63	72	4100
42	8'-2"	4 1/2	21	63	78	5380
48	8'-2"	5	24	72	84	5550
54	8'-2 1/2"	5 1/2	27	65	90	8240
60	8'-3"	6	35	60	96	8730

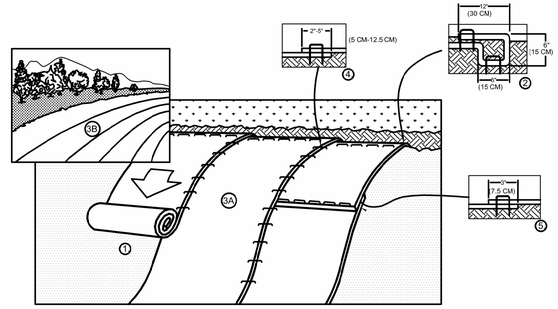


NOTES:

1. CONNECT CONCRETE FLARED END SECTION TO PREVIOUS PIPE SECTION USING TIE-BOLTS.
2. FOR PIPES 12" OR GREATER, END SECTIONS SHALL BE CONSTRUCTED OF RCP.
3. FOR PIPES LESS THAN 12", END SECTIONS SHALL BE CONSTRUCTED OF CMP.

FLARED END SECTION

#312 082824

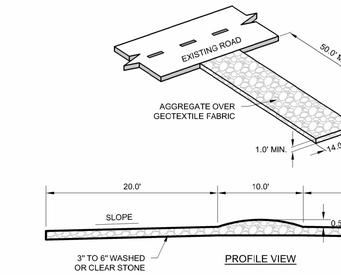


1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED. NOTE: WHEN USING CELL-O-SEED DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.
3. ROLL THE BLANKETS (A.) DOWN OR (B.) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE. WHEN USING THE DOT SYSTEM , STAPLES/STAKES SHOULD BE PLACED THROUGH EACH OF THE COLORED DOTS CORRESPONDING TO THE APPROPRIATE STAPLE PATTERN.
4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" - 5" (5 CM - 12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.
5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE: "IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION MATTING - SLOPE INSTALLATION

1392, 1107/07



PROFILE VIEW

NOTES:

1. TRACKING PADS SHALL BE INSTALLED PRIOR TO ANY TRAFFIC LEAVING THE SITE. CONTRACTOR SHALL VERIFY LOCATION WITH OWNER.
2. THE AGGREGATE FOR TRACKING PADS SHALL MEET ONE OF THE FOLLOWING IDOT COARSE AGGREGATE GRADATIONS, CA-1, CA-2, CA-3, OR CA-4 AND BE PLACED ACCORDING TO CONSTRUCTION SPECIFICATIONS 25 ROCKFILL USING PLACEMENT METHOD 1 AND CLASS III COMPACTION.
3. THE AGGREGATE SHALL BE PLACED IN A LAYER AT LEAST 12-INCHES THICK. ON SITES WHERE SATURATED CONDITIONS ARE EXPECTED DURING THE LIFE OF THE PAD, THE PAD SHALL BE UNDERLAIN WITH GEOTEXTILE FABRIC WHICH MEETS MATERIAL SPECIFICATION 592 GEOTEXTILE, TABLE 1 OR 2, CLASS I, II OR IV, TO PREVENT MIGRATION OF UNDERLYING SOILS INTO THE STONE LAYER.
4. THE TRACKING PAD SHALL BE THE FULL WIDTH OF THE EGRESS POINT. MINIMUM WIDTH IS 14 FEET FOR ONE-WAY TRAFFIC AND 20 FEET FOR TWO-WAY TRAFFIC, WITH AN ADDITIONAL INCREASE OF 4 FEET FOR TRAILER TRAFFIC. THE TRACKING PAD SHALL BE A MINIMUM 50-FEET LONG.
5. ANY SEDIMENT TRACKED ONTO A PUBLIC OR PRIVATE ROAD SHOULD BE REMOVED BY STREET CLEANING, NOT FLUSHING, AT THE END OF EACH WORKING DAY.
6. TRACKING PADS SHALL, AT A MINIMUM, BE INSPECTED WEEKLY AND WITHIN 24-HOURS AFTER EVERY PRECIPITATION EVENT THAT PRODUCES 0.5-INCHES OF RAIN OR MORE DURING A 24-HOUR PERIOD.
7. THE TRACKING PAD PERFORMANCE SHALL BE MAINTAINED BY SCRAPING OR TOP-DRESSING WITH ADDITIONAL AGGREGATE.

CONSTRUCTION ENTRANCE

#107-1, 10-02-12

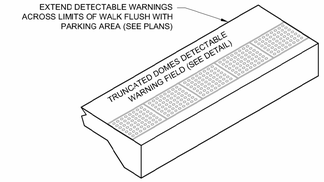
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

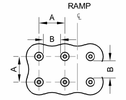
* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION



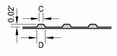
PLAN VIEW

DETECTABLE WARNING FIELD (TYPICAL)**





PLAN VIEW



ELEVATION VIEW

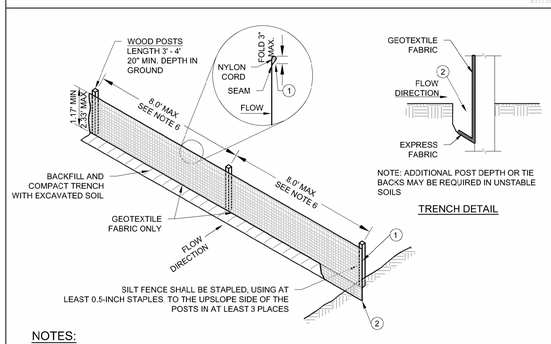
TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL

NOTES:

1. DETECTABLE WARNING FIELDS TO BE NEENAH FOUNDRY DETECTABLE WARNING FIELDS (OR APPROVED EQUAL), UNPAINTED NATURAL COLOR AND FIELD WEATHERED PRIOR TO INSTALLATION (VERIFY COLOR WITH OWNER PRIOR TO INSTALLATION.

DETECTABLE WARNING TRUNCATED DOMES

#708, 4/2021



NOTE: ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS

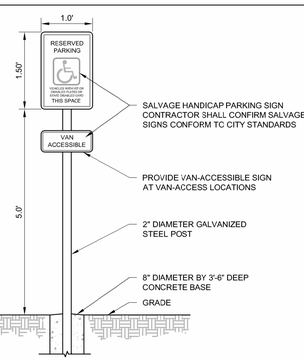
TRENCH DETAIL

NOTES:

1. ALL SILT FENCE MATERIALS AND INSTALLATION SHALL BE IN CONFORMANCE WITH WI DNR TECHNICAL STANDARD 1056.
2. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I WITH EQUIVALENT OPENING SIZE OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
3. SILT FENCE SHALL BE ANCHORED BY SPREADING AT LEAST 8-INCHES OF FABRIC IN A 4-INCH WIDE AND 6-INCH DEEP TRENCH OR 6-INCH DEEP V-TRENCH ON THE UPSLOPE SIDE OF THE FENCE. TRENCHES SHALL NOT BE EXCAVATED WIDER OR DEEPER THAN NECESSARY FOR PROPER INSTALLATION.
4. FOLD MATERIAL TO FIT TRENCH AND BACKFILL AND COMPACT TRENCH WITH EXCAVATED SOIL.
5. WOOD POSTS SHALL BE A MINIMUM SIZE OF 1.125-INCHES x 1.125-INCHES OF DRIED OAK OR HICKORY.
6. SILT FENCE TO EXTEND ABOVE THE TOP OF PIPE, WHERE APPLICABLE.
7. POST SPACING SHALL BE SELECTED BASED ON GEOTEXTILE FABRIC (8-FEET FOR WOVEN AND 3-FEET FOR NON-WOVEN).

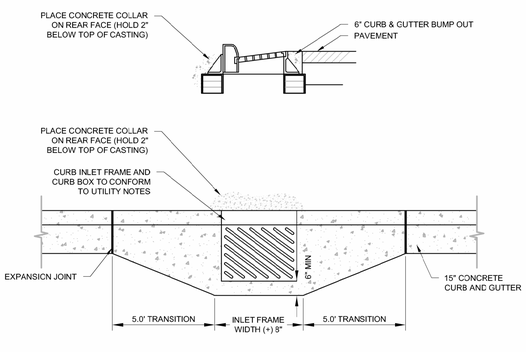
SILT FENCE

#100-C, 07-01-13



ADA SIGN

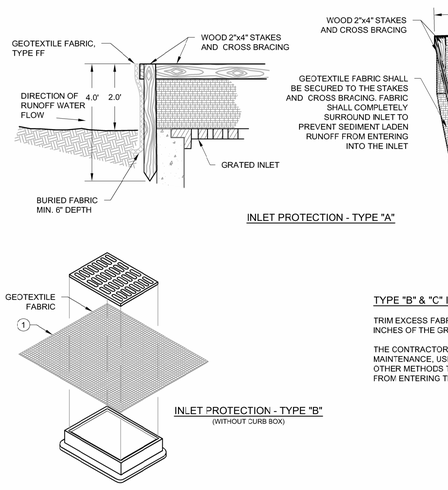
#708, 10-11-17



NOTE : CURB CONTRACTOR TO VERIFY POSITION AND ELEVATION OF FRAME AND GRATE PRIOR TO POUR. IF NOT CORRECT, FIVE (5) FOOT TRANSITION AREA TO BE LEFT UNPOURED UNTIL SITUATION IS CORRECTED BY CONTRACTOR.

CURB AND GUTTER BUMP OUT

#622, 10-10-13



INLET PROTECTION - TYPE "A"

NOTES:

1. GEOTEXTILE FABRIC SHALL MEET THE REQUIREMENTS OF MATERIAL SPECIFICATION 592 GEOTEXTILE TABLE 1 OR 2, CLASS I, WITH AN EOS OF AT LEAST 30 FOR NONWOVEN AND 50 FOR WOVEN.
2. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

(1) FINISHED SIZE, INCLUDING FLAP POCKET WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10 INCHES AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.

(2) FOR INLET PROTECTION, TYPE "C" (WITH CURB BOX), AN ADDITIONAL 18 INCHES OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.

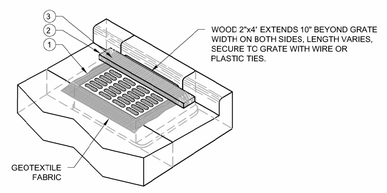
(3) FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2x4.

INLET PROTECTION - TYPE "B"
(WITHOUT CURB BOX)

TYPE "B" & "C" INSTALLATION NOTES

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3 INCHES OF THE GRATE.

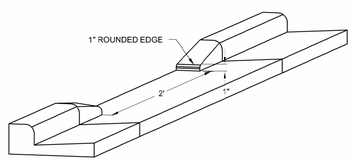
THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHODS TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.



INLET PROTECTION, TYPE "C"
(WITH CURB BOX)

INLET PROTECTION

#134, 04-24-14

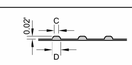


CURB CUT

#628, 10/27/14

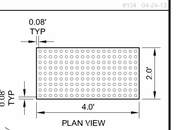
	MIN.	MAX.
A	1.6"	2.4"
B	0.65"	1.5"
C	*	*
D	0.9"	1.4"

* THE C DIMENSION IS 50% TO 65% OF THE D DIMENSION

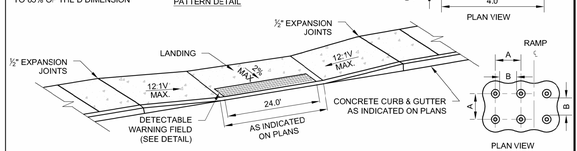


ELEVATION VIEW

TRUNCATED DOMES DETECTABLE WARNING PATTERN DETAIL



PLAN VIEW



PLAN VIEW

TYPICAL ACCESSIBLE RAMP

#134, 04-24-14

CURB CUT

#628, 10/27/14

CURB AND GUTTER BUMP OUT

#622, 10-10-13

SILT FENCE

#100-C, 07-01-13

INLET PROTECTION

#134, 04-24-14

TYPICAL ACCESSIBLE RAMP

#134, 04-24-14

DETECTABLE WARNING TRUNCATED DOMES

#708, 4/2021

ADA SIGN

#708, 10-11-17

FLARED END SECTION

#312 082824

EROSION MATTING - SLOPE INSTALLATION

1392, 1107/07

CONSTRUCTION ENTRANCE

#107-1, 10-02-12

REVIEWED: APM
DESIGNED: JJS
DRAFTED: JJS

PLAN | DESIGN | DELIVER
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PINNACLE ENGINEERING GROUP
ENGINEERING | NATURAL RESOURCES | SURVEYING
CHICAGO | MILWAUKEE | NATIONWIDE

WISCONSIN OFFICE:
20725 WATERTOWN ROAD, SUITE 100
BROOKFIELD, WI 53186
(262) 754-8888

LATITUDE 43

2825 MAYFAIR RD, WAUWATOSA, WI
TAXKEYS: 2999986000 & 2999987000

CONSTRUCTION DETAILS

REVISIONS

PEG JOB No. 6675.00
PEG PM APM
START DATE 10/23/25
SCALE N.T.S.

SHEET
C-7.1
OF
C-7.2

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CONSTRUCTION DETAILS

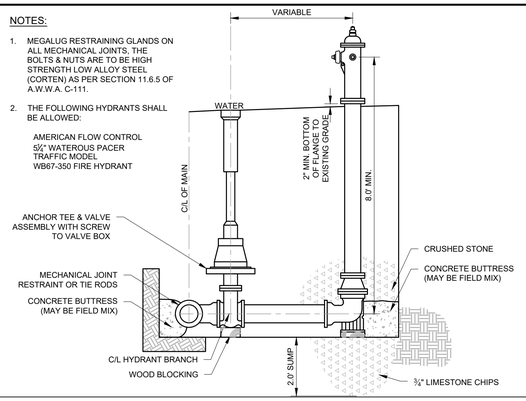
Z:\PROJECTS\2025\6675.00-WI\CAD\SHEETS\6675.00-WI CONSTRUCTION DETAILS.DWG

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NOTES:

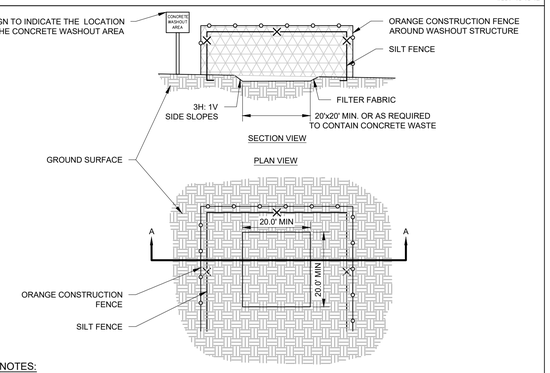
1. MEGALUG RESTRAINING GLANDS ON ALL MECHANICAL JOINTS, THE BOLTS & NUTS ARE TO BE HIGH STRENGTH LOW ALLOY STEEL (CORTEN) AS PER SECTION 11.6.5 OF A.W.W.A. C-111.
2. THE FOLLOWING HYDRANTS SHALL BE ALLOWED:

   AMERICAN FLOW CONTROL
   5½" WATEROUS PACER
   TRAFFIC MODEL
   WB67-350 FIRE HYDRANT



FIRE HYDRANT

#501 10-10-12

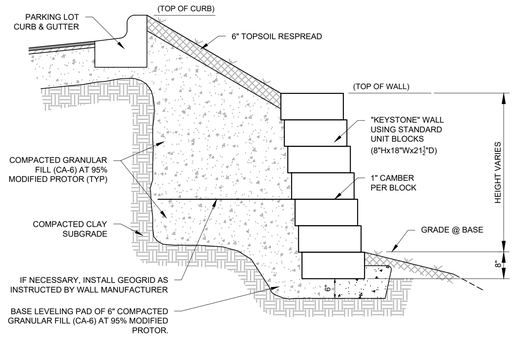


NOTES:

1. CONCRETE WASHOUT AREA SHALL BE INSTALLED PRIOR TO ANY CONCRETE PLACEMENT ON SITE.
2. VEHICLE TRACKING CONTROL IS REQUIRED AT CONCRETE WASHOUT ENTRANCE IF ACCESS TO CONCRETE WASHOUT AREA IS OFF PAVEMENT.
3. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTE CONCRETE.
4. WASTE MATERIAL FROM CONCRETE WASHOUT OPERATIONS MUST BE REMOVED AND LEGALLY DISPOSED OF WHEN IT HAS ACCUMULATED TWO-THIRDS OF THE WET STORAGE CAPACITY OF THE STRUCTURE.
5. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED SITE.
6. WHEN THE CONCRETE WASHOUT AREA IS REMOVED, THE DISTURBED AREA SHALL BE SEEDED AND MULCHED OR OTHERWISE STABILIZED.

CONCRETE WASHOUT AREA

#130 12/29/12



NOTES:

1. RETAINING WALL DETAIL IS CONCEPTUAL AND SCHEMATIC ONLY. THE CONTRACTOR MUST SUBMIT INFORMATION ON THE PRODUCT CHOSEN (I.E. "KEYSTONE" OR EQUIVALENT) INCLUDING A STATEMENT FROM THE MANUFACTURER THAT THE PRODUCT IS SUITABLE FOR THE PROPOSED APPLICATION. THIS INFORMATION SHALL BE SUBMITTED TO THE OWNER, THE ENGINEER, AND THE VILLAGE ENGINEER FOR REVIEW PRIOR TO CONSTRUCTION. THIS REVIEW DOES NOT RELIEVE THE CONTRACTOR AND MANUFACTURER OF RESPONSIBILITY FOR THE WALL. THE CONTRACTOR SHALL ADHERE STRICTLY TO THE MANUFACTURER'S SPECIFICATIONS AND DESIGN REQUIREMENTS DURING CONSTRUCTION.
2. WALL TO BE SET WITH BOTTOM OF FIRST BLOCK 8" BELOW GRADE AT FACE OF WALL.

KEYSTONE RETAINING WALL

#833 3/31/15

1.0 POTENTIAL POLLUTANT SOURCES

GIVEN THE PROPOSED ACTIVITY ON THE PROJECT SITE, THE PRIMARY POTENTIAL POLLUTANT SOURCE ASSOCIATED WITH THIS CONSTRUCTION PROJECT IS SOIL EROSION AND TRANSPORTATION; REFER TO SECTION 4 OF THIS PLAN. ADDITIONAL POTENTIAL SOURCES OF POLLUTION MAY INCLUDE: FUEL TANKS, WASTE CONTAINERS, OIL OR OTHER PETROLEUM PRODUCTS, DETERGENTS, PAINTS, CONSTRUCTION DEBRIS, SANITARY STATIONS, FERTILIZERS, AND DUST; REFER TO SECTION 5 OF THIS PLAN.

2.0 EROSION AND SEDIMENT CONTROL IMPLEMENTATION

THE FOLLOWING ARE DESCRIPTIONS OF THE EROSION AND SEDIMENT CONTROL PRACTICES THAT SHALL BE IMPLEMENTED DURING CONSTRUCTION OF THIS PROJECT. IN ADDITION TO THESE MEASURES, CONTRACTOR SHALL DISTURB ONLY AREAS NECESSARY TO COMPLETE THE CONSTRUCTION PROJECT. ALL PRACTICES SHALL BE CONDUCTED IN ACCORDANCE WITH THE BEST MANAGEMENT PRACTICES (BMP).

2.1 CONSTRUCTION AND EROSION CONTROL SEQUENCING

CONSTRUCTION SEQUENCING WILL BE UTILIZED AS A MEANS OF CONTROLLING EROSION AND LIMITING SEDIMENT TRANSPORT. SEQUENCING AS LISTED BELOW IS GENERAL IN NATURE AND MAY VARY DEPENDING ON WEATHER CONDITIONS AND/OR PHASING OF CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SITE SEQUENCING PLAN TO OWNER FOR APPROVAL AT LEAST 5 BUSINESS DAYS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. CONTRACTOR MAY MODIFY SEQUENCING AFTER ITEM 6 AS NEEDED TO COMPLETE CONSTRUCTION ONLY IF EROSION CONTROLS ARE MAINTAINED IN ACCORDANCE WITH THE CONSTRUCTION SITE EROSION AND SEDIMENT CONTROL REQUIREMENTS.

CONSTRUCTION PHASE 1

1. INSTALL TEMPORARY CONSTRUCTION ENTRANCES, INLET PROTECTION ON EXISTING STORM SEWER, AND PERIMETER SILT FENCING RELATED TO THE CONSTRUCTION OF THE PROPOSED CANOPY AND DEMOLITION OF THE EXISTING CANOPY. INSTALL SILT LOG ALONG THE PERIMETER OF PROPOSED TOPSOIL STOCKPILE LOCATIONS. THE FIRST TOPSOIL DEPOSITED WITHIN THE STOCKPILE LIMITS SHALL BE PLACED TO CREATE TEMPORARY BERMING ALONG THE SILT FENCE TO PREVENT DIRECT STORMWATER RUNOFF AGAINST SILT FENCING.
   ANTICIPATED START DATE: MAY, 2025 ANTICIPATED END DATE: MAY, 2025
2. CONDUCT SITE DEMOLITION, ROUGH GRADING OPERATIONS, UTILITY PIPING INSTALLATION, AND CONSTRUCTION RELATED TO THE PROPOSED CANOPY CONSTRUCTION. INLET PROTECTION SHALL BE INSTALLED TO PROTECT ANY STORM SEWER OR CULVERTS THAT WILL FUNCTION DURING CONSTRUCTION.
   ANTICIPATED START DATE: MAY, 2025 ANTICIPATED END DATE: NOVEMBER, 2025
3. FINE GRADE SUB-GRADE SOILS WITHIN PAVEMENT LIMITS AND REMAINING DISTURBED AREAS AROUND PROPOSED CANOPY. PLACE STONE BASE MATERIAL AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS. PLACE SALVAGED TOPSOIL, EROSION BLANKETS/MATTING, AND SEED/MULCH AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS.
   ANTICIPATED START DATE: NOVEMBER, 2025 ANTICIPATED END DATE: DECEMBER, 2025
4. CONDUCT SITE DEMOLITION, ROUGH GRADING OPERATIONS, AND CONSTRUCTION RELATED TO THE REMOVAL OF THE EXISTING CANOPY.
   ANTICIPATED START DATE: FEBRUARY, 2026 ANTICIPATED END DATE: MARCH, 2026
5. FINE GRADE SUB-GRADE SOILS WITHIN PAVEMENT LIMITS AND REMAINING DISTURBED AREAS AROUND EXISTING CANOPY. PLACE STONE BASE MATERIAL AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS. PLACE SALVAGED TOPSOIL, EROSION BLANKETS/MATTING, AND SEED/MULCH AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS.
   ANTICIPATED START DATE: MARCH, 2026 ANTICIPATED END DATE: APRIL, 2026
6. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SILT FENCE, TEMPORARY FENCING/PRETECTION, DITCH CHECKS, AND OTHER TEMPORARY CONTROLS, AND RESTORATION PRACTICES AS NECESSARY, TO THE SATISFACTION OF THE OWNER.
   ANTICIPATED START DATE: APRIL , 2026 ANTICIPATED END DATE: JUNE, 2026

CONSTRUCTION PHASE 2

1. INSTALL TEMPORARY CONSTRUCTION ENTRANCES, INLET PROTECTION ON EXISTING STORM SEWER, AND PERIMETER SILT FENCING RELATED TO THE CONSTRUCTION OF THE EAST COURTYARD GARDEN LANDSCAPING. TOPSOIL STOCKPILE IS NOT ANTICIPATED DURING THIS PHASE OF CONSTRUCTION.
   ANTICIPATED START DATE: MARCH, 2026 ANTICIPATED END DATE: APRIL, 2026
2. CONDUCT SITE DEMOLITION, ROUGH GRADING OPERATIONS, UTILITY PIPING INSTALLATION, AND CONSTRUCTION RELATED TO THE EAST COURTYARD GARDEN LANDSCAPING. INLET PROTECTION SHALL BE INSTALLED TO PROTECT ANY STORM SEWER OR CULVERTS THAT WILL FUNCTION DURING CONSTRUCTION.
   ANTICIPATED START DATE: APRIL, 2026 ANTICIPATED END DATE: JUNE, 2026
3. FINE GRADE SUB-GRADE SOILS WITHIN PATIO/SIDEWALK LIMITS AND REMAINING DISTURBED AREAS RELATED TO THE CONSTRUCTION OF THE EAST COURTYARD GARDEN LANDSCAPING. PLACE STONE BASE MATERIAL AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS. PLACE TOPSOIL, EROSION BLANKETS/MATTING, AND SEED/MULCH AS SOON AS POSSIBLE FOLLOWING COMPLETION OF FINE GRADING EFFORTS.
   ANTICIPATED START DATE: JUNE, 2026 ANTICIPATED END DATE: JULY, 2026
4. EROSION CONTROLS SHALL NOT BE REMOVED UNTIL SITE IS FULLY STABILIZED OR 70% VEGETATIVE COVER IS ESTABLISHED. CONTRACTOR IS RESPONSIBLE FOR REMOVAL OF SILT FENCE, TEMPORARY FENCING/PRETECTION, DITCH CHECKS, AND OTHER TEMPORARY CONTROLS, AND RESTORATION PRACTICES AS NECESSARY, TO THE SATISFACTION OF THE OWNER.
   ANTICIPATED START DATE: JULY, 2026 ANTICIPATED END DATE: OCTOBER, 2026

2.2 STABILIZATION PRACTICES

THE DATES WHEN MAJOR GRADING ACTIVITIES OCCUR, WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE, AND WHEN STABILIZATION MEASURES ARE INITIATED, SHALL BE RECORDED ON THE STABILIZATION SCHEDULE FOR MAJOR GRADING ACTIVITIES.

STABILIZATION MEASURES SHALL BE INITIATED AS SOON AS PRACTICABLE IN PORTIONS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE TEMPORARILY OR PERMANENTLY CEASED. NO MORE THAN SEVEN (7) DAYS SHALL PASS AFTER THE CONSTRUCTION ACTIVITY IN THAT PORTION OF THE SITE HAS PERMANENTLY CEASED UNLESS:

THE INITIATION OF STABILIZATION MEASURES BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY TEMPORARILY OR PERMANENTLY CEASE IS PRECLUDED BY SNOW COVER. IN THAT EVENT, STABILIZATION MEASURE SHALL BE INITIATED AS SOON AS PRACTICABLE.

CONSTRUCTION ACTIVITY WILL RESUME ON A PORTION OF THE SITE WITHIN FOURTEEN (14) DAYS FROM WHEN ACTIVITIES CEASED, (I.E. THE TOTAL TIME PERIOD THAT THE CONSTRUCTION ACTIVITY IS TEMPORARILY CEASED IS LESS THAN FOURTEEN (14) DAYS). IN THAT EVENT, STABILIZATION MEASURES DO NOT HAVE TO BE INITIATED ON THAT PORTION OF THE SITE BY THE SEVENTH (7) DAY AFTER CONSTRUCTION ACTIVITY HAS TEMPORARILY CEASED. SEE THE SOIL PROTECTION CHART PRESENTED IN THE CONSTRUCTION DOCUMENTS FOR RATES OF PERMANENT AND TEMPORARY VEGETATION.

STABILIZATION MEASURES SHALL BE DETERMINED BASED ON SITE CONDITIONS AT THE TIME CONSTRUCTION ACTIVITY HAS CEASED, INCLUDING BUT NOT LIMITED TO WEATHER CONDITIONS AND LENGTH OF TIME MEASURE MUST BE EFFECTIVE. THE FOLLOWING ARE ACCEPTABLE STABILIZATION MEASURES.

PERMANENT SEEDING; IN ACCORDANCE WITH APPROVED LANDSCAPING PLAN
TEMPORARY SEEDING MAY CONSIST OF SPRING OATS (100LBS/ACRE) AND/OR WHEAT OR CEREAL RYE (150LBS/ACRE)
HYDRO-MULCHING WITH A TACKIFIER
GEOTEXTILE EROSION MATTING
SODDING

2.3 STRUCTURAL PRACTICES

THE FOLLOWING ARE DESCRIPTIONS OF STRUCTURAL PRACTICES TO BE IMPLEMENTED TO DIVERT FLOWS FROM EXPOSED SOILS, STORE FLOWS, OR OTHERWISE LIMIT THE DISCHARGE OF POLLUTANTS FROM EXPOSED AREAS OF THE SITE INCLUDING THE PROPOSED AND EXISTING WETLAND AREAS. SUCH PRACTICES COULD INCLUDE SILT FENCE, PROTECTION FENCE, CONSTRUCTION ENTRANCE, DITCH CHECK, EROSION CONTROL MATTING, DIVERSION BERMS/WALE, SEDIMENT TRAP, LEVEL SPREADER, INLET PROTECTION, OUTLET PROTECTION, AND TEMPORARY OR PERMANENT SEDIMENT BASIN. THE FOLLOWING STRUCTURAL PRACTICES ARE TO BE UTILIZED DURING THIS PROJECT.

SILT FENCE SHALL BE PLACED DOWN SLOPE OF DISTURBED AREAS OF THE CONSTRUCTION SITE AND AROUND THE PERIMETER OF THE TOPSOIL STOCKPILE. THIS INCLUDES PROTECTION OF EXISTING WETLAND AREAS TO BE MAINTAINED. SILT FENCE MAY ALSO BE USED AS A TEMPORARY CONTROL DEVICE WHERE SEDIMENTATION RUNOFF IS DISCOVERED.

CONSTRUCTION ENTRANCE SHALL BE INSTALLED TO REDUCE SOIL EROSION POLLUTANTS FROM LEAVING THE SITE DURING CONSTRUCTION ACTIVITIES. IF THE CRUSHED STONE DOES NOT ADEQUATELY REMOVE MUD FROM VEHICLE TIRES, THEY SHALL BE HOSED OFF BEFORE ENTERING A PAVED ROADWAY. ANY SOIL DEPOSITED ON THE PUBLIC PAVED ROAD WAY SHALL BE REMOVED IMMEDIATELY.

DITCH CHECK SHALL BE INSTALLED IN DRAINAGE CHANNELS AS NEEDED.

EROSION CONTROL MATTING SHALL BE PLACED ON AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V, BEFORE VEGETATION IS ESTABLISHED.

INLET PROTECTION SHALL BE INSTALLED AT STORMWATER DRAINAGE INLETS TO REDUCE SEDIMENT WITHIN STORM SEWER CONVEYANCE FEATURES.

OUTLET SCOUR PROTECTION SHALL BE INSTALLED AT STORMWATER DRAINAGE OUTLETS TO DIFFUSE FLOWS.

3.0 ADDITIONAL PRACTICES

ADDITIONAL POLLUTANT CONTROL MEASURES TO BE IMPLEMENTED DURING CONSTRUCTION ACTIVITIES SHALL INCLUDE, BUT NOT BE LIMITED TO THE FOLLOWING.

CONSTRUCTION WASTE SHALL BE PROPERLY DISPOSED OF. THIS INCLUDES ALL CONSTRUCTION SITE WASTE MATERIAL, SANITARY WASTE, AND WASTE FROM VEHICLE TRACKING OF SEDIMENTS. THE CONTRACTOR SHALL ENSURE THAT NO MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, BURNED, OR DISCHARGED TO THE WATERS OF THE STATE. VEHICLES HAULING MATERIAL AWAY FROM THE SITE SHALL BE COVERED WITH A TARPAULIN TO PREVENT BLOWING DEBRIS.

DUST CONTROL SHALL BE ACCOMPLISHED BY ONE OR MORE OF THE FOLLOWING METHODS:

COVERING 30% OR MORE OF THE SOIL SURFACE WITH A NON-ERODIBLE MATERIAL.

ROUGHENING (EQUIPMENT TRACKING) THE SOIL TO PRODUCE RIDGES PERPENDICULAR TO THE PREVAILING WIND. RIDGES SHALL BE AT LEAST SIX (6) INCHES IN HEIGHT.

FREQUENT WATERING OF EXCAVATION AND FILL AREAS.

PROVIDING GRAVEL OR PAVING AT ENTRANCE/EXIT DRIVES, PARKING AREAS AND TRANSIT PATHS.

STREET SWEEPING SHALL BE PERFORMED TO IMMEDIATELY REMOVE ANY SEDIMENT TRACKED ON PAVEMENTS.

4.0 EROSION AND SEDIMENT STRUCTURAL PRACTICE MAINTENANCE

THE FOLLOWING MAINTENANCE PRACTICES SHALL BE USED TO MAINTAIN, IN GOOD AND EFFECTIVE OPERATING CONDITIONS, VEGETATION, EROSION AND SEDIMENT CONTROL MEASURES, AND OTHER PROTECTIVE MEASURES IDENTIFIED IN THIS PLAN. UPON IDENTIFICATION, DEFICIENCIES IN STORMWATER CONTROLS SHALL BE ADDRESSED IMMEDIATELY. THE MAINTENANCE PROCEDURES FOR THIS DEVELOPMENT SHALL INCLUDE, BUT NOT BE LIMITED TO THE BELOW.

SILT FENCE - REPAIR OR REPLACE ANY DAMAGED FILTER FABRIC AND/OR STAKES. REMOVE ACCUMULATED SEDIMENT WHEN IT HAS REACHED ONE-HALF THE ABOVE GROUND HEIGHT OF THE FENCE.

CONSTRUCTION ENTRANCE - AS NEEDED, ADD STONE TO MAINTAIN CONSTRUCTION ENTRANCE DIMENSIONS AND EFFECTIVENESS.

DITCH CHECK - RE-SECURE STAKES; ADJUST OR REPOSITION BALES TO ADDRESS PROPER FLOW OF STORMWATER; AND REMOVE ACCUMULATED SEDIMENT WHEN IT HAS REACHED ONE-HALF THE HEIGHT OF THE BALE.

EROSION CONTROL MATTING - REPAIR MATTING IMMEDIATELY IF INSPECTION REVEALS BREACHED OR FAILED CONDITIONS. REPAIR AND RE-GRADE SOIL WHERE CHANNELIZATION HAS OCCURRED.

INLET PROTECTION - CLEAN, REPAIR OR REPLACE FILTER FABRIC AND/OR STONE WHEN CONTROL MEASURE IS CLOGGED. INLET FILTER BAGS SHALL BE REPLACED ONCE ONE-HALF FULL OF SEDIMENT.

OUTLET PROTECTION - CLEAN, REPAIR OR REPLACE FILTER FABRIC, TURF REINFORCEMENT MATTING AND/OR STONE WHEN CONTROL MEASURE IS ONE-HALF FULL OF SEDIMENT.

5.0 INSPECTION

INSPECTIONS SHALL BE COMPLETED WITHIN TWENTY-FOUR (24) HOURS OF THE END OF A RAINFALL EVENT THAT IS ONE-HALF INCH OR GREATER OR EQUIVALENT SNOWFALL, OR AT A MINIMUM ONCE EVERY SEVEN (7) CALENDAR DAYS. INSPECTIONS SHALL BE UNDERTAKEN BY QUALIFIED PERSONNEL PROVIDED BY THE CONTRACTOR, AND SHALL INCLUDE: DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE. A STORMWATER POLLUTION PREVENTION PLAN INSPECTION REPORT SHALL BE COMPLETED AND ADDED TO THE SWPPP. RAINFALL SHALL BE RECORDED ON THE SWPPP RAINFALL LOG. CONTRACTOR SHALL IMMEDIATELY ARRANGE FOR REPAIR OR REPLACEMENT OF ANY DAMAGED OR DEFICIENT CONTROL MEASURES OBSERVED DURING THE INSPECTION.

QUALIFIED PERSONNEL MEANS A PERSON KNOWLEDGEABLE IN THE PRINCIPLES AND PRACTICES OF EROSION AND SEDIMENT CONTROL MEASURES, SUCH AS A LICENSED PROFESSIONAL ENGINEER, A CERTIFIED PROFESSIONAL IN EROSION AND SEDIMENT CONTROL, A CERTIFIED EROSION SEDIMENT OR STORMWATER INSPECTOR, OR OTHER TRAINED INDIVIDUAL.

6.0 SPILL PREVENTION

6.1 GENERAL MATERIAL MANAGEMENT PRACTICES

THE GOOD HOUSEKEEPING PRACTICES LISTED BELOW SHALL BE FOLLOWED THROUGHOUT THE CONSTRUCTION PROJECT.

1. CONTRACTOR SHALL STORE ONLY ENOUGH PRODUCTS REQUIRED TO COMPLETE THIS PROJECT.
2. ALL MATERIAL SHALL BE STORED IN A NEAT, ORDERLY MANNER IN THEIR ORIGINAL CONTAINERS CONTAINING MANUFACTURER'S LABEL.
3. MANUFACTURERS' RECOMMENDATIONS FOR PROPER USE AND DISPOSAL SHALL BE FOLLOWED.
4. MATERIALS REQUIRED TO HAVE A MATERIAL SAFETY DATA SHEET (MSDS) SHALL HAVE A COPY STORED IN THE PROJECT'S MSDS DATABASE.

6.2 SPILL CONTROL PRACTICES

THE PRACTICES LISTED BELOW SHALL BE FOLLOWED FOR SPILL PREVENTION AND CLEANUP.

1. MATERIALS AND EQUIPMENT NECESSARY FOR SPILL CLEANUP SHALL BE MAINTAINED ONSITE.
2. IMMEDIATELY UPON DISCOVERY, ALL SPILLS SHALL BE CLEANED UP ACCORDING TO THE MANUFACTURERS' RECOMMENDED METHODS.
3. PERSONNEL CLEANING UP A SPILL SHALL USE PERSONAL PROTECTIVE EQUIPMENT.
4. IMMEDIATELY UPON DISCOVERY, SPILLS OF TOXIC OR HAZARDOUS MATERIALS SHALL BE REPORTED TO THE OWNER AND GENERAL CONTRACTOR.
5. NOTIFICATION AND REPORTING TO THE APPROPRIATE FEDERAL, STATE, AND LOCAL GOVERNMENT AGENCIES SHALL BE MADE AS REQUIRED.

GENERAL INFORMATION:

THIS STORMWATER POLLUTION PREVENTION PLAN (SWPPP) HAS BEEN DEVELOPED TO FULFILL ONE OF THE REQUIREMENTS OF THE GENERAL ENVIRONMENTAL PROTECTION AGENCY (EPA) NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (WISCONSIN POLLUTION DISCHARGE ELIMINATION SYSTEM "WPDES") FOR THE DISCHARGE OF STORMWATER ASSOCIATED WITH CONSTRUCTION PROJECTS DISTURBING ONE ACRE OR MORE. THE OWNER AND CONTRACTORS SHALL COMPLY WITH ALL REQUIREMENTS OF THE WPDES FOR ALL SUCH CONSTRUCTION PROJECTS. THE STORMWATER DISCHARGES ASSOCIATED WITH THE CONSTRUCTION ACTIVITY FROM THIS SITE ARE SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE PERMITS.

THE EXECUTED OWNER CERTIFICATION AND THE CONTRACTOR CERTIFICATIONS SHALL BE KEPT ONSITE WITH THE APPROVED PLANS.

SWPPP AVAILABILITY:

THE OWNER SHALL RETAIN A COPY OF THE SWPPP AT THE CONSTRUCTION SITE FROM THE DATE OF THE PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

KEEPING PLANS CURRENT:

THE CONTRACTOR SHALL AMEND THE PLAN WHENEVER THERE IS A CHANGE IN DESIGN, CONSTRUCTION, OPERATION, OR MAINTENANCE, WHICH HAS A SIGNIFICANT EFFECT ON THE POTENTIAL FOR THE DISCHARGE OF POLLUTANTS TO THE WATERS OF THE STATE AND WHICH HAS NOT OTHERWISE BEEN ADDRESSED IN THE PLAN OR IF THE PLAN PROVES TO BE INEFFECTIVE IN ELIMINATING OR SIGNIFICANTLY CONTROLLING POLLUTANTS IN STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION SITE ACTIVITY. IN ADDITION, THE THE PLAN SHALL BE AMENDED TO IDENTIFY ANY NEW CONTRACTOR AND/OR SUBCONTRACTOR THAT WILL IMPLEMENT A MEASURE OF THE PLAN. AMENDMENTS TO THE PLAN MAY BE REQUIRED BY THE MUNICIPALITY, OWNER, OR OTHER REVIEWING AGENCY. COPIES OF THE AMENDMENTS SHALL BE KEPT ONSITE AS PART OF THE SWPPP.

RETENTION OF RECORDS:

THE OWNER SHALL RETAIN COPIES OF THIS AND ALL REPORTS AND NOTICES REQUIRED BY THIS PERMIT, AND RECORDS OF ALL DATA USED TO COMPLETE THE NOTICE OF INTENT TO BE COVERED BY THIS PERMIT, FOR A PERIOD OF AT LEAST THREE YEARS FROM THE DATE PERMIT COVERAGE EXPIRES OR IS TERMINATED. THIS PERIOD MAY BE EXTENDED BY THE REQUEST OF THE AGENCY AT ANY TIME. IN ADDITION, THE OWNER SHALL RETAIN A COPY OF THE PLAN REQUIRED BY THIS PERMIT AT THE CONSTRUCTION SITE FROM THE DATE OF PROJECT INITIATION TO THE DATE OF FINAL STABILIZATION.

A NOTICE OF INTENT (NOI) APPLICATION MUST BE COMPLETED AND INCORPORATED INTO THE SWPPP.

WPDES NOTICE OF TERMINATION GUIDANCE:

WHEN A SITE HAS BEEN FINALLY STABILIZED AND ALL STORMWATER DISCHARGES FROM CONSTRUCTION SITES THAT ARE AUTHORIZED BY THE PERMIT ARE ELIMINATED, THE OWNER OF THE FACILITY MUST SUBMIT A COMPLETED NOTICE OF TERMINATION THAT IS SIGNED IN ACCORDANCE WITH THE PERMIT. CONTRACTOR SHALL SUBMIT A COMPLETED NOTICE OF TERMINATION TO OWNER FOR EXECUTION PRIOR TO THEIR FINAL PAY APPLICATION REQUEST.

CONTROL MEASURE GROUP	CONTROL MEASURE	CONTROL MEASURE CHARACTERISTICS
VEGETATIVE SOIL COVER	TEMPORARY SEEDING	PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE.
	PERMANENT SEEDING	PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. MAY BE PART OF FINAL LANDSCAPE PLAN.
NON VEGETATIVE SOIL COVER	AGGREGATE COVER	PROVIDES TEMPORARY COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE.
	PAVING	PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED.
DIVERSIONS	DIVERSION BERM / SWALE	DIVERTS RUNOFF TO A SEDIMENT TRAP OR OTHER CONTROL.
ENCLOSED DRAINAGE	STORM SEWER	CONVEYS SEDIMENT LADEN WATER TO A SEDIMENT BASIN.
OUTLETS	APRON ENDWALL OR RIPRAP	PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURE.
SEDIMENT BASINS	TEMPORARY SEDIMENT TRAP	CONSTRUCTED TO REMOVE SILTATION FROM RUNOFF FROM SITE DIVERSION BERMS/SWALES AND IN OVERLAND FLOOD ROUTE. CAN BE CONVERTED TO PERMANENT SEDIMENT BASIN.
SEDIMENT FILTERS	SILT FENCE	PLACED DOWN SLOPE OF DISTURBED AREA TO KEEP RUNOFF CONTAINED ON-SITE.
	INLET PROTECTION	INSTALLED IN OPEN GRATE STRUCTURES TO COLLECT SEDIMENT.
	DITCH CHECK	PLACED IN DRAINAGE CHANNELS TO FILTER SEDIMENT FROM RUNOFF.
MUD AND DUST CONTROL	CONSTRUCTION ENTRANCE	REDUCES SOIL EROSION POLLUTANTS BEING TRANSPORTED OFF-SITE.
	STREET SWEEPING	REDUCES POLLUTANTS TRACKED FROM CONSTRUCTION SITE.
	DUST CONTROL	PREVENTS DUST FROM LEAVING CONSTRUCTION SITE.

STABILIZATION EFFECTIVENESS (TIME OF YEAR)

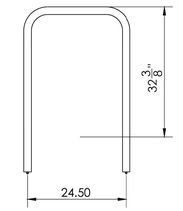
STABILIZATION TYPE	STABILIZATION UTILIZATION PERIODS											
	JAN.	FEB.	MAR.	APR.	MAY	JUNE	JULY	AUG.	SEPT.	OCT.	NOV.	DEC.
PERMANENT SEEDING			A	*	*	*	*	*	*			
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C	*	*	*	D	*	*			
SODDING			E	*	*	*	*	*	*			

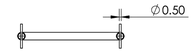
A. KENTUCKY BLUEGRASS 90 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 30 LBS/ACRE.
B. KENTUCKY BLUEGRASS 135 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 45 LBS/ACRE + 2 TONS STRAW MULCH/ACRE.
C. SPRING OATS 100 LBS/ACRE.
D. WHEAT OR CEREAL RYE 150 LBS/ACRE.
E. SOD.
F. STRAW MULCH 2 TONS/ACRE.
* IRRIGATION/WATERING REQUIRED TO SUPPORT ESTABLISHMENT AS NEEDED.

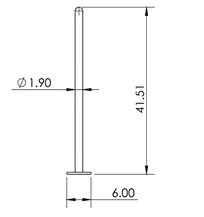
HOOP RUNNER - HR100

2 Bike Below Ground Mount - Specs

Park A Bike
smart racks | smart solutions







MATERIALS
HSS 1.9" steel tubing
Two 1/2" x 6" anchor rods

FINISH
Galvanized
Galvanized to ASTM A123 / A123M - 12

Black Powder Coat
Final Coat– Polyester based Powder Coating – this offers a hard shell finish to the product to protect the metal substrate from oxidizing. Our finishes withstand harsh conditions with a strong polyester UV-stable coating with superior salt spray protection.

MOUNTING
Below Ground
Suggested concrete:
3000 PSI mix min.

SPACE USE
Wall Setbacks
For racks parallel to a wall
Minimum: 24"
For racks perpendicular to a wall
Minimum: 34"
Distance Between Racks
Minimum: 24"
Street Setbacks
For racks parallel to the street::
Minimum: 24"

*These are our suggested minimal clearances.

parkabike.com | 800 630-7225 | info@parkabike.com

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BP-MK-HR100-CS,CL.0913.RevB

www.pinnacle-engr.com

CONSTRUCTION DETAILS

REVIEWED: APM
DESIGNED: JJS
DRAFTED: JJS

PLAN | DESIGN | DELIVER
www.pinnacle-engr.com

PINNACLE ENGINEERING GROUP
ENGINEERING | NATURAL RESOURCES | SURVEYING

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(262) 754-8888
CHICAGO | MILWAUKEE : NATIONWIDE

LATITUDE 43

2825 MAYFAIR RD, WAUWATOSA, WI

TAXKEYS: 2999986000 & 2999987000

CONSTRUCTION DETAILS

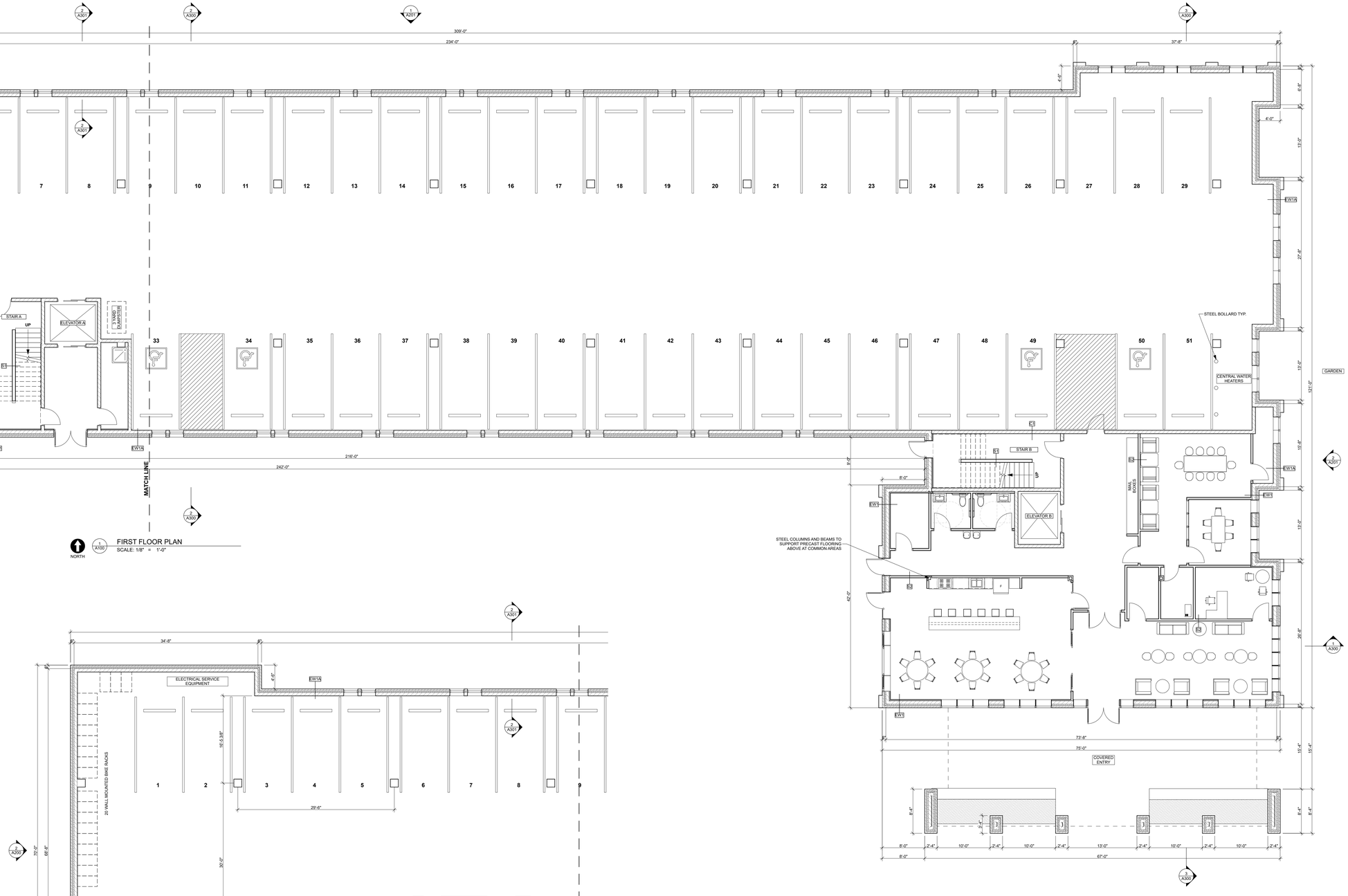
REVISIONS

PEG JOB No. 6675.00
PEG PM APM
START DATE 10/23/25
SCALE N.T.S.

SHEET
C-7.2
OF
C-7.2

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FLOOR PLAN - GENERAL NOTES

1. IF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE UNCLEAR, INCOMPLETE IN THEIR DIRECTION, OR CONFLICTS WITH OTHER PORTIONS OF THE WORK, PLEASE NOTIFY THE ARCHITECT PRIOR TO EXECUTING THAT WORK.
2. NOTIFY ARCHITECT PROMPTLY IF THE CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH ANY APPLICABLE CODES OR REGULATIONS.
3. INSTALL BLOCKING IN WALLS, CEILING AND FLOORS AS REQUIRED FOR THE ATTACHMENT OF ANY ITEMS OR EQUIPMENT SHOWN IN THE CONSTRUCTION DOCUMENTS.
4. REFER TO STRUCTURAL PLANS, FOR FRAMING SIZE & ORIENTATION.
5. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXECUTION OF WORK.
6. TYPICAL FLOOR PLAN DIMENSIONS ARE SHOWN TO THE EXTERIOR FACE OF WALLS, UNLESS NOTED OTHERWISE.
7. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, ACCESS PANELS, SPEAKERS, HVAC DUCTS, GRILLS, DIFFUSERS AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL, AND OTHER PERTINENT TRADES. NOTIFY ARCHITECT IF ANY LOCATIONS OR CONDITIONS CONFLICT WITH THE DESIGN INTENT SHOWN IN THESE CONSTRUCTION DOCUMENTS.
8. SEE SHEET A500, A501 FOR WALL, FLOOR, AND ROOF ASSEMBLY TYPES.
9. SEE SHEET AXXX AND AXXX FOR DOOR AND WINDOW TYPES.

NOT FOR CONSTRUCTION

GALBRAITH CARNAHAN ARCHITECTS
6404 West North Avenue
Milwaukee, Wisconsin 53213
(414) 291-0772 phone
www.galbraithcarnahan.com

CONSULTANTS:

CONTRACTOR

STAMP

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2825 - 2835 N MAYFAIR WAUWATOSA WI 53213

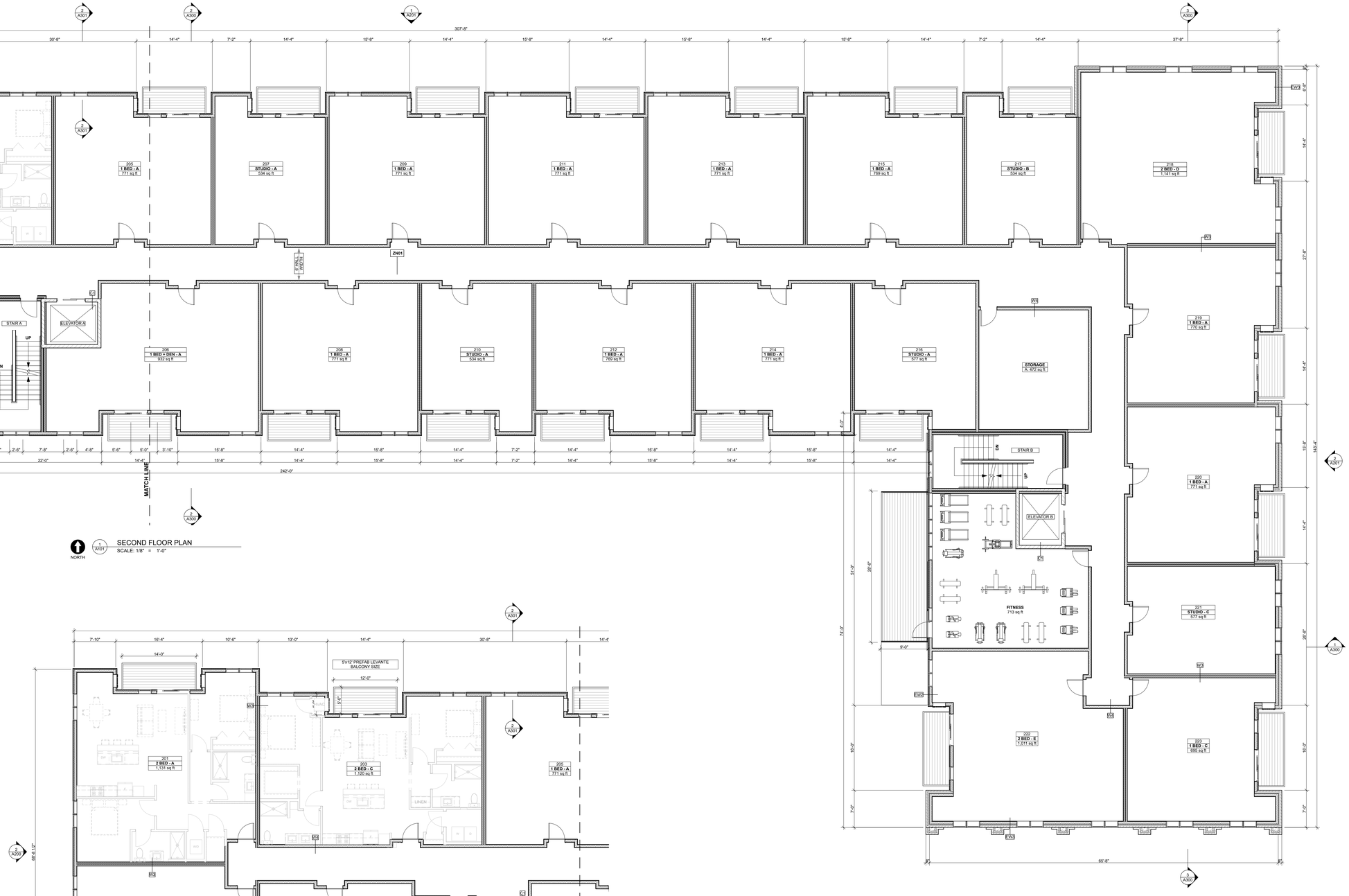
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DRB SET	12.09.2025

PROJECT # 24.20

FIRST FLOOR PLAN

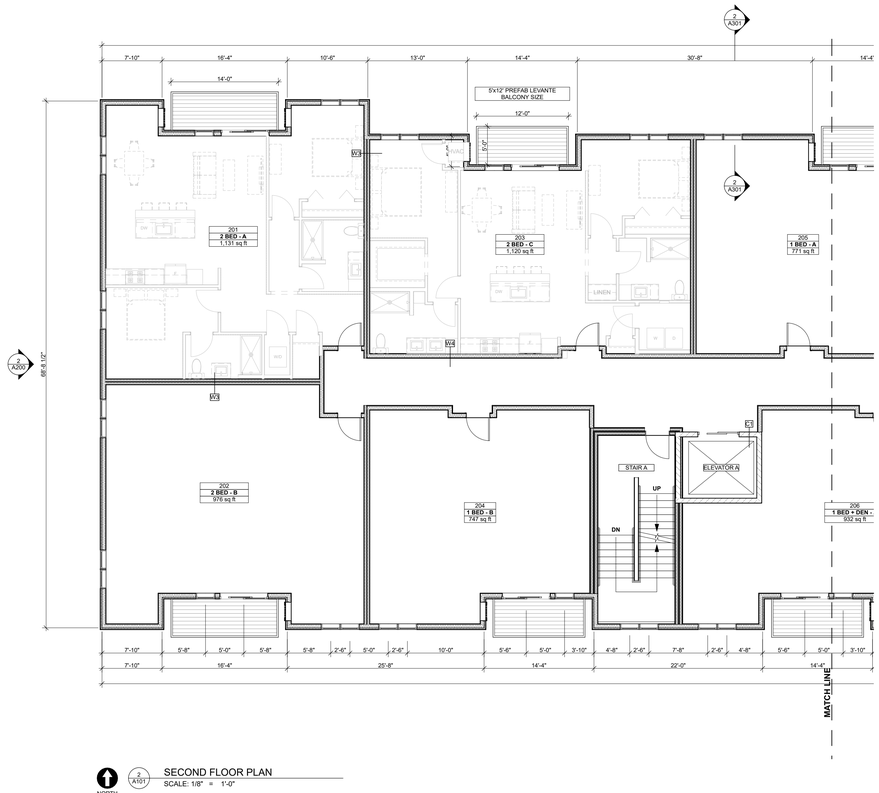
A100

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NORTH

1 A101 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"



NORTH

1 A101 SECOND FLOOR PLAN
SCALE: 1/8" = 1'-0"

FLOOR PLAN - GENERAL NOTES

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5. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXECUTION OF WORK.
6. TYPICAL FLOOR PLAN DIMENSIONS ARE SHOWN TO THE EXTERIOR FACE OF WALLS, UNLESS NOTED OTHERWISE.
7. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, ACCESS PANELS, SPEAKERS, HVAC DUCTS, GRILLS, DIFFUSERS AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL, AND OTHER PERTINENT TRADES. NOTIFY ARCHITECT IF ANY LOCATIONS OR CONDITIONS CONFLICT WITH THE DESIGN INTENT SHOWN IN THESE CONSTRUCTION DOCUMENTS.
8. SEE SHEET A500, A501 FOR WALL, FLOOR, AND ROOF ASSEMBLY TYPES.
9. SEE SHEET AXXX AND AXXX FOR DOOR AND WINDOW TYPES.

NOT FOR CONSTRUCTION

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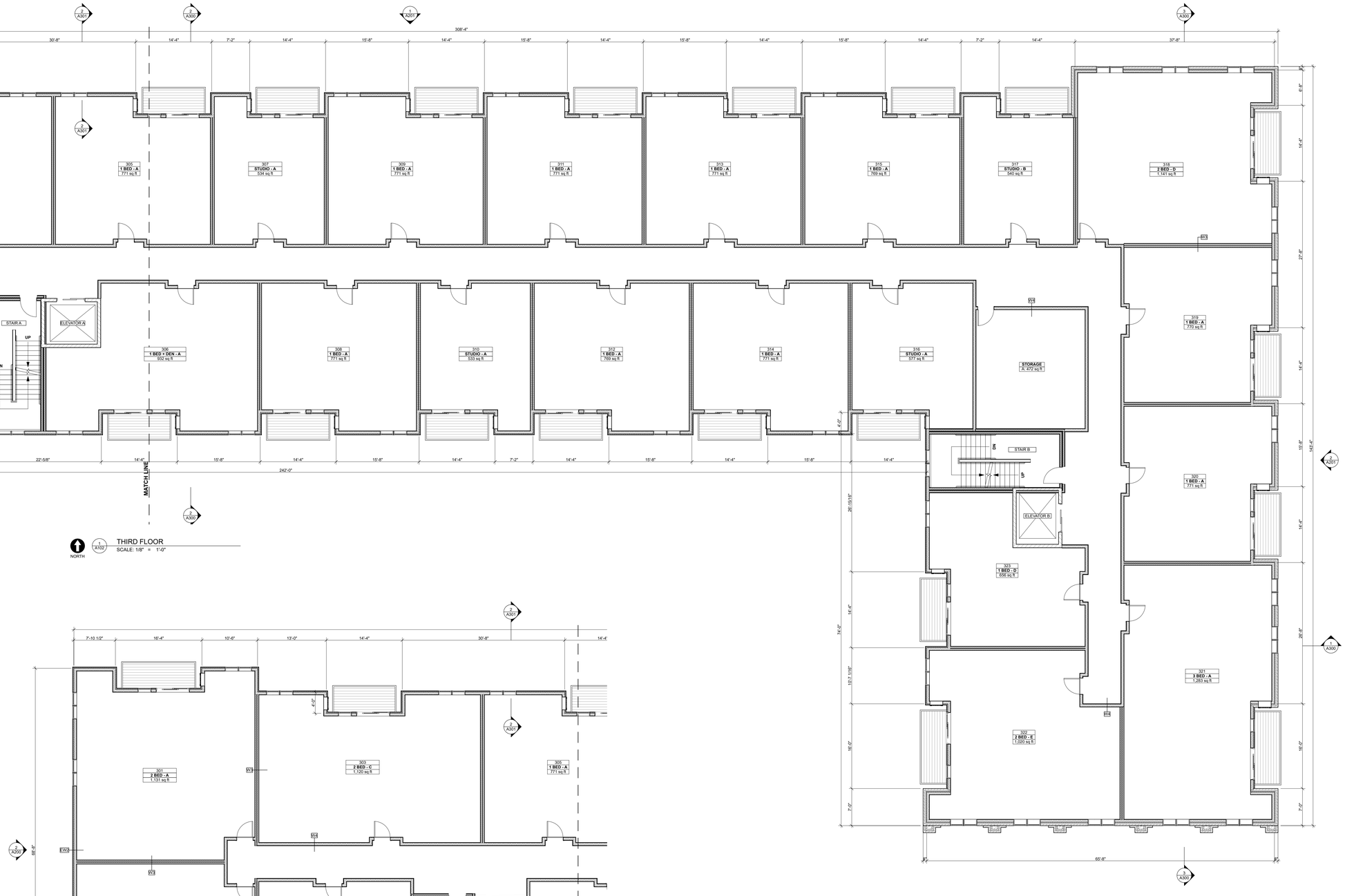
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PROJECT # 24.20

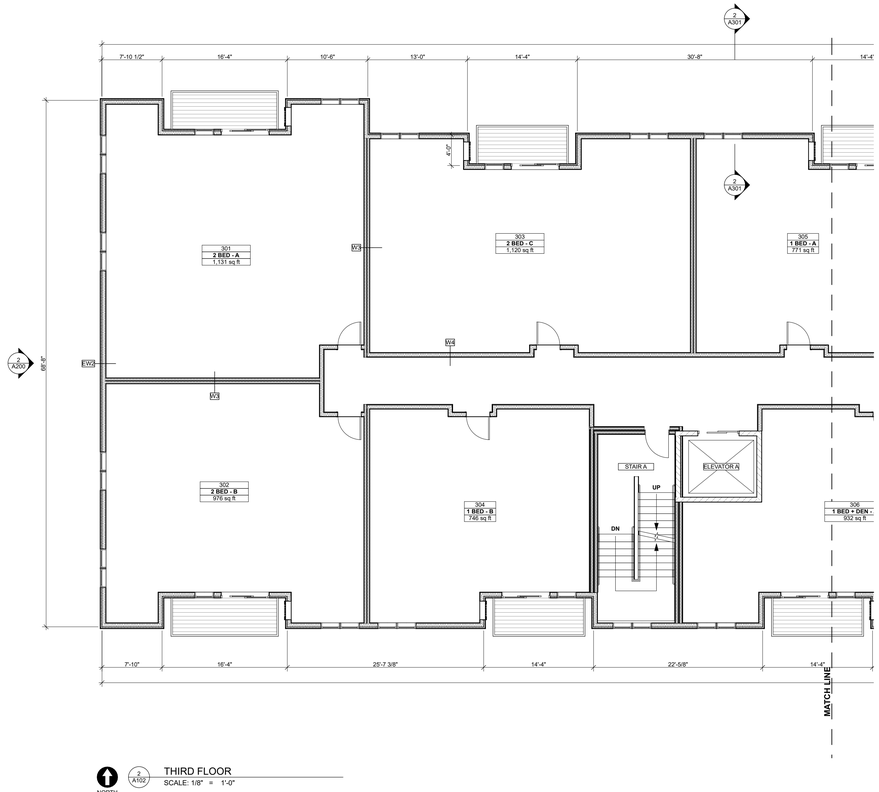
SECOND FLOOR PLAN

A101

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NORTH 1 A102 THIRD FLOOR
SCALE: 1/8" = 1'-0"



NORTH 2 A102 THIRD FLOOR
SCALE: 1/8" = 1'-0"

FLOOR PLAN - GENERAL NOTES

1. IF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE UNCLEAR, INCOMPLETE IN THEIR DIRECTION, OR CONFLICTS WITH OTHER PORTIONS OF THE WORK, PLEASE NOTIFY THE ARCHITECT PRIOR TO EXECUTING THAT WORK.
2. NOTIFY ARCHITECT PROMPTLY IF THE CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH ANY APPLICABLE CODES OR REGULATIONS.
3. INSTALL BLOCKING IN WALLS, CEILING AND FLOORS AS REQUIRED FOR THE ATTACHMENT OF ANY ITEMS OR EQUIPMENT SHOWN IN THE CONSTRUCTION DOCUMENTS.
4. REFER TO STRUCTURAL PLANS, FOR FRAMING SIZE & ORIENTATION.
5. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXECUTION OF WORK.
6. TYPICAL FLOOR PLAN DIMENSIONS ARE SHOWN TO THE EXTERIOR FACE OF WALLS, UNLESS NOTED OTHERWISE.
7. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, ACCESS PANELS, SPEAKERS, HVAC DUCTS, GRILLS, DIFFUSERS AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL, AND OTHER PERTINENT TRADES. NOTIFY ARCHITECT IF ANY LOCATIONS OR CONDITIONS CONFLICT WITH THE DESIGN INTENT SHOWN IN THESE CONSTRUCTION DOCUMENTS.
8. SEE SHEET A500, A501 FOR WALL, FLOOR, AND ROOF ASSEMBLY TYPES.
9. SEE SHEET AXXX AND AXXX FOR DOOR AND WINDOW TYPES.

NOT FOR CONSTRUCTION

GALBRAITH CARNAHAN ARCHITECTS
6404 West North Avenue
Milwaukee, Wisconsin 53213
(414) 291-0772 phone
www.galbraithcarnahan.com

CONSULTANTS:

CONTRACTOR

STAMP

LATITUDE 43
2825 - 2835 N MAYFAIR WAUWATOSA WI 53213

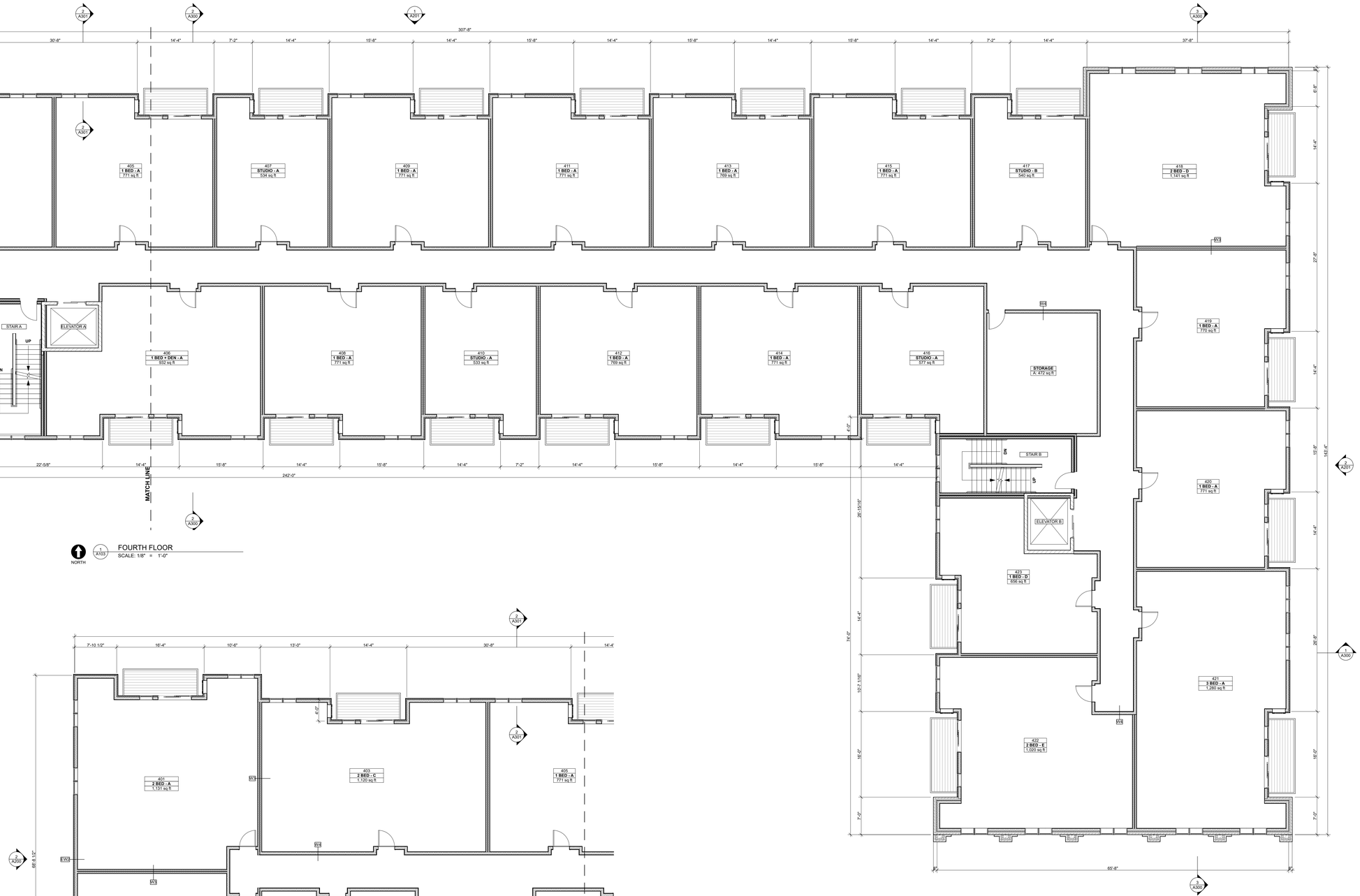
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PROJECT # 24.20

THIRD FLOOR PLAN

A102

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NORTH

1 A103 FOURTH FLOOR
SCALE: 1/8" = 1'-0"

NORTH

2 A103 FOURTH FLOOR
SCALE: 1/8" = 1'-0"

FLOOR PLAN - GENERAL NOTES

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4. REFER TO STRUCTURAL PLANS, FOR FRAMING SIZE & ORIENTATION.
5. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXECUTION OF WORK.
6. TYPICAL FLOOR PLAN DIMENSIONS ARE SHOWN TO THE EXTERIOR FACE OF WALLS, UNLESS NOTED OTHERWISE.
7. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, ACCESS PANELS, SPEAKERS, HVAC DUCTS, GRILLS, DIFFUSERS AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL, AND OTHER PERTINENT TRADES. NOTIFY ARCHITECT IF ANY LOCATIONS OR CONDITIONS CONFLICT WITH THE DESIGN INTENT SHOWN IN THESE CONSTRUCTION DOCUMENTS.
8. SEE SHEET A500, A501 FOR WALL, FLOOR, AND ROOF ASSEMBLY TYPES.
9. SEE SHEET AXXX AND AXXX FOR DOOR AND WINDOW TYPES.

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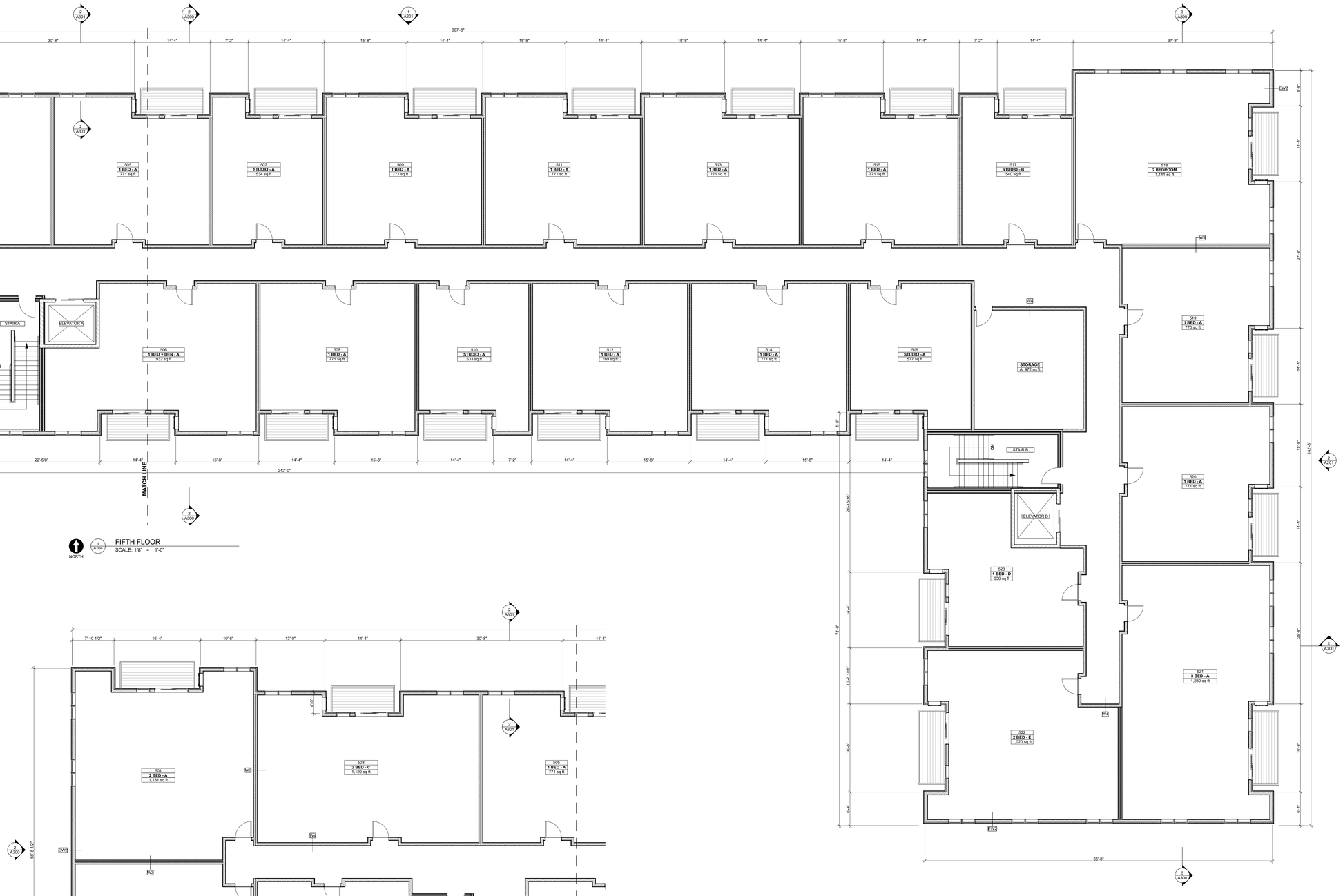
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PROJECT # 24.20

FOURTH FLOOR PLAN

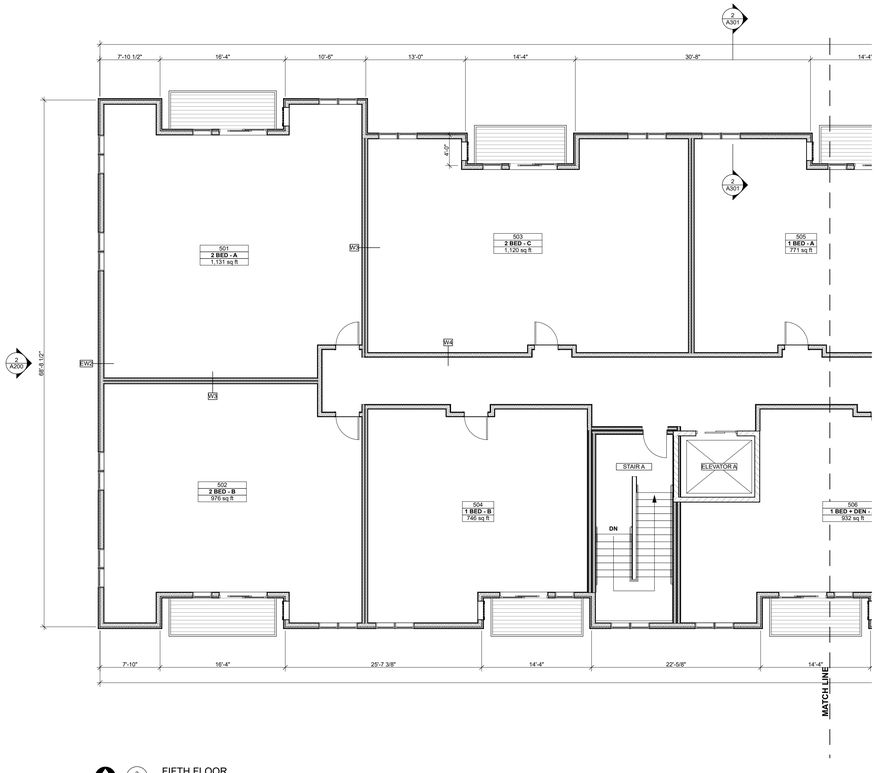
A103

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NORTH

A104 FIFTH FLOOR
SCALE: 1/8" = 1'-0"



NORTH

A104 FIFTH FLOOR
SCALE: 1/8" = 1'-0"

FLOOR PLAN - GENERAL NOTES

1. IF ANY PORTION OF THE CONSTRUCTION DOCUMENTS ARE UNCLEAR, INCOMPLETE IN THEIR DIRECTION, OR CONFLICTS WITH OTHER PORTIONS OF THE WORK, PLEASE NOTIFY THE ARCHITECT PRIOR TO EXECUTING THAT WORK.
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3. INSTALL BLOCKING IN WALLS, CEILING AND FLOORS AS REQUIRED FOR THE ATTACHMENT OF ANY ITEMS OR EQUIPMENT SHOWN IN THE CONSTRUCTION DOCUMENTS.
4. REFER TO STRUCTURAL PLANS, FOR FRAMING SIZE & ORIENTATION.
5. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXECUTION OF WORK.
6. TYPICAL FLOOR PLAN DIMENSIONS ARE SHOWN TO THE EXTERIOR FACE OF WALLS, UNLESS NOTED OTHERWISE.
7. COORDINATE EXACT LOCATION OF LIGHT FIXTURES, ACCESS PANELS, SPEAKERS, HVAC DUCTS, GRILLS, DIFFUSERS AND OTHER SUCH CEILING ITEMS WITH MECHANICAL, ELECTRICAL, AND OTHER PERTINENT TRADES. NOTIFY ARCHITECT IF ANY LOCATIONS OR CONDITIONS CONFLICT WITH THE DESIGN INTENT SHOWN IN THESE CONSTRUCTION DOCUMENTS.
8. SEE SHEET A500, A501 FOR WALL, FLOOR, AND ROOF ASSEMBLY TYPES.
9. SEE SHEET AXXX AND AXXX FOR DOOR AND WINDOW TYPES.

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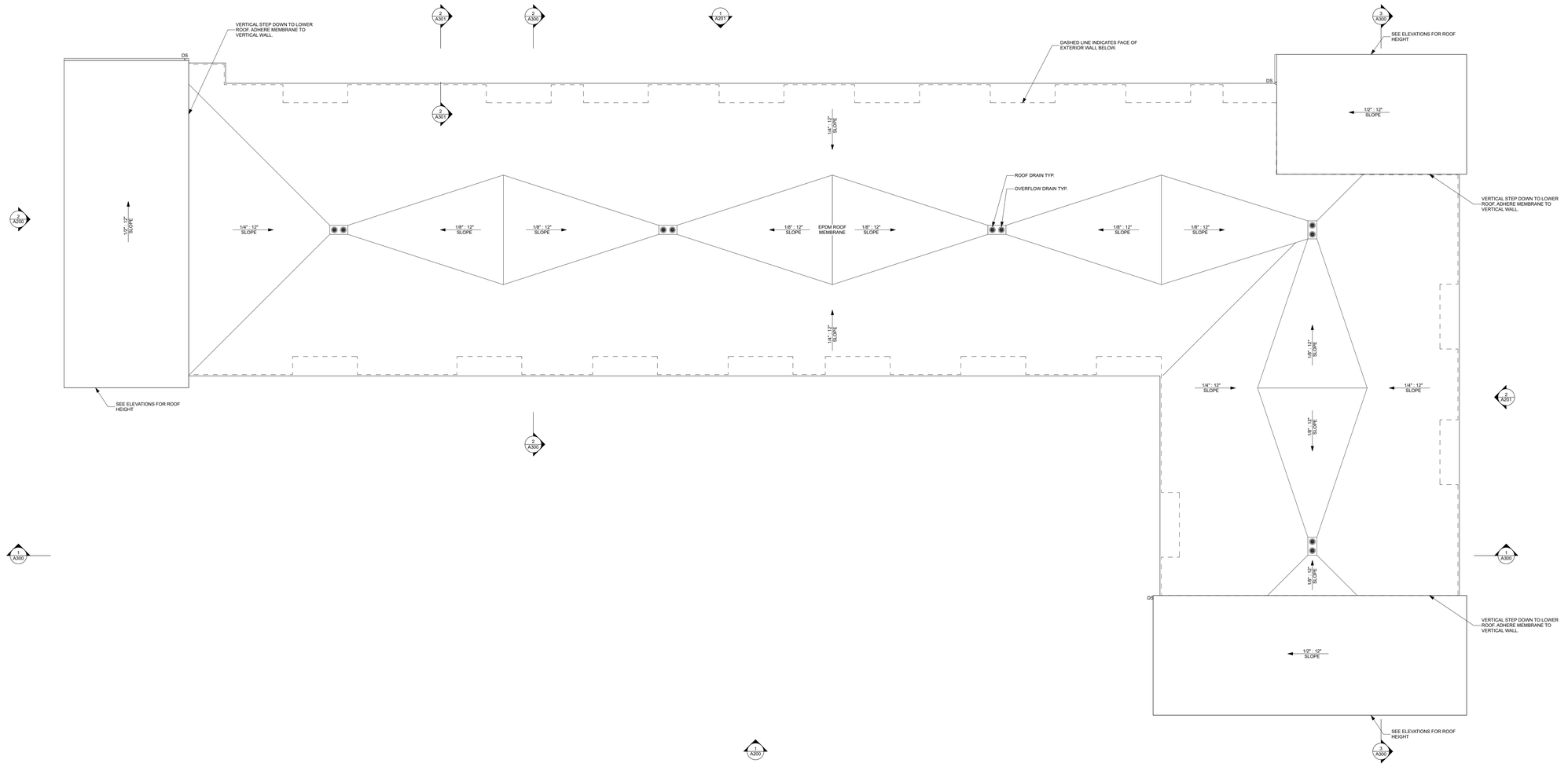
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PROJECT # 24.20

FIFTH FLOOR PLAN

A104

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NORTH

1 A105 ROOF PLAN
SCALE: 3/32" = 1'-0"

ROOF PLAN - GENERAL NOTES

1. THE DETAILS OF CONSTRUCTION IN THIS PROJECT ARE OF CRITICAL IMPORTANCE TO BOTH THE CLIENT AND ARCHITECT. IF ANY PORTION OF THE CONSTRUCTION DOCUMENTS IS UNCLEAR, INCOMPLETE IN IT'S DIRECTION, OR CONFLICTS WITH OTHER PORTIONS OF THE WORK, PLEASE NOTIFY THE ARCHITECT PRIOR TO EXECUTING THAT WORK
2. NOTIFY ARCHITECT PROMPTLY IF THE INFORMATION SHOWN IN ONE PORTION OF THE CONSTRUCTION DOCUMENTS CONFLICTS WITH THAT SHOWN IN ANOTHER
3. NOTIFY ARCHITECT PROMPTLY IF THE CONSTRUCTION DOCUMENTS ARE INCONSISTENT WITH ANY APPLICABLE CODES OR REGULATIONS
4. CONTRACTOR TO VERIFY ALL DIMENSIONS IN FIELD PRIOR TO EXECUTION OF WORK

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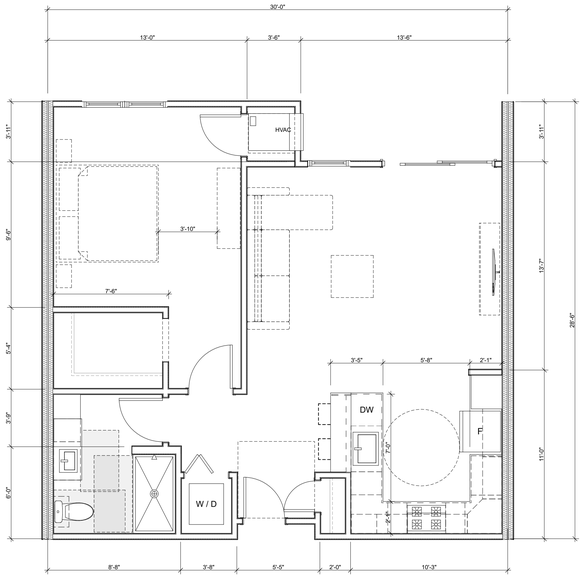
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PROJECT # 24.20

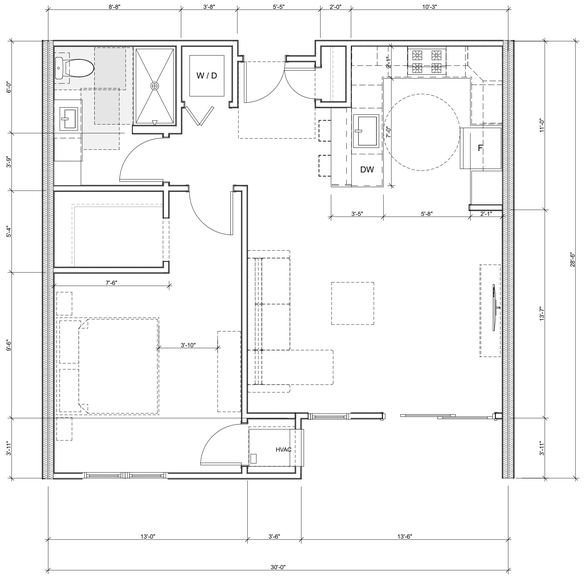
ROOF PLAN

A105

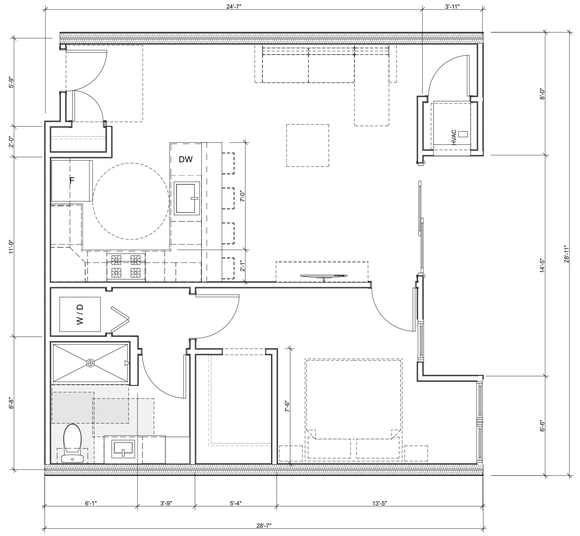
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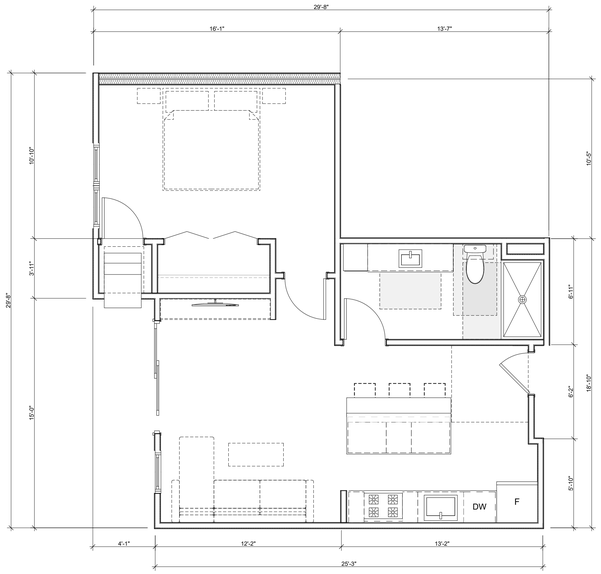
A130 1 BED - A
SCALE: 1/4" = 1'-0"



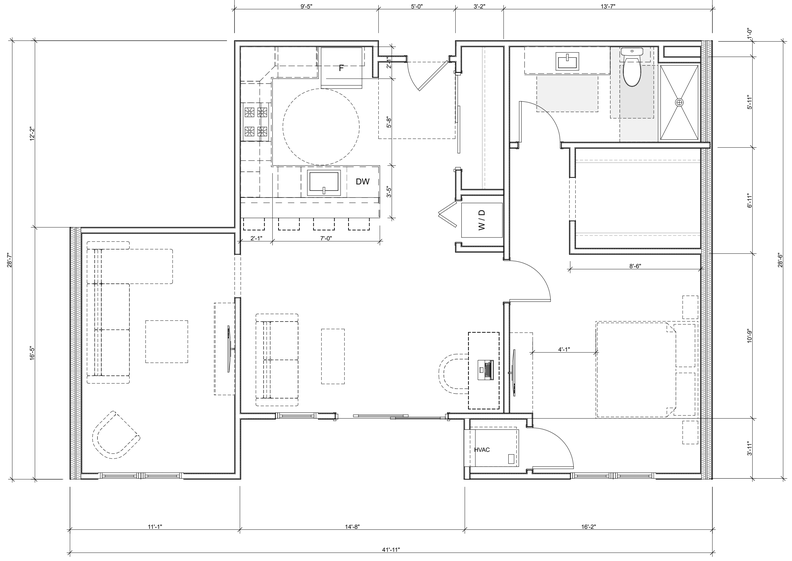
A130 1 BED - B
SCALE: 1/4" = 1'-0"



A130 1 BED - C
SCALE: 1/4" = 1'-0"



4 A130 1 BED - D
SCALE: 1/4" = 1'-0"



5 A130 1 BED + DEN - A
SCALE: 1/4" = 1'-0"

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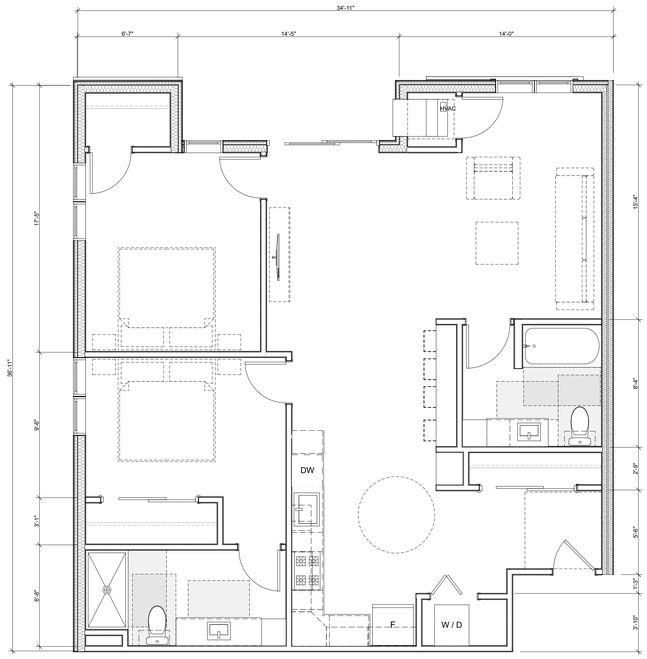
PROJECT # 24.20

TYPICAL UNIT PLANS

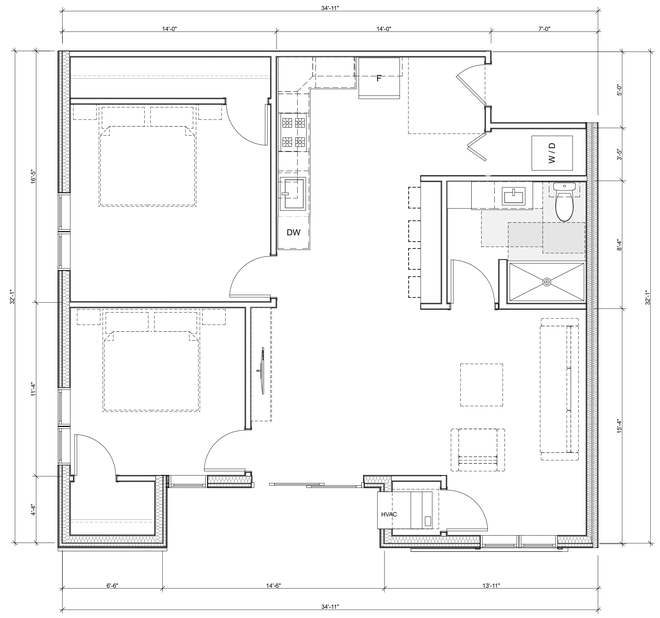
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NOT FOR CONSTRUCTION

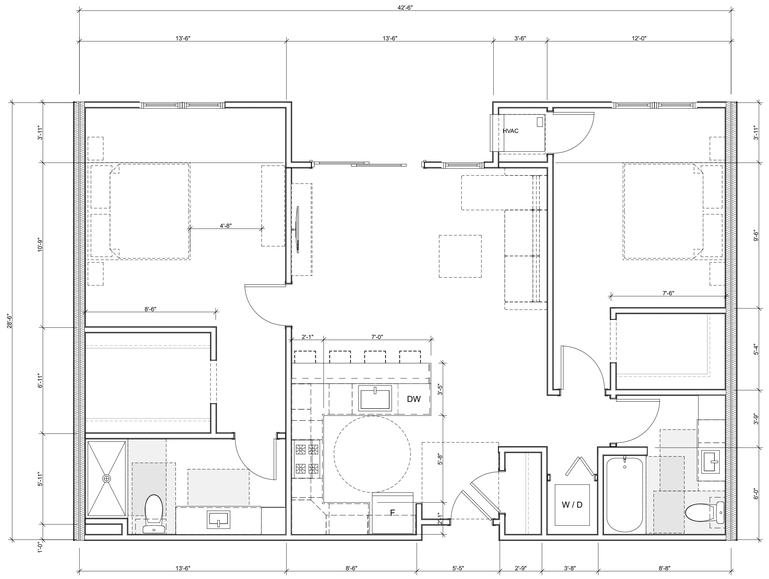
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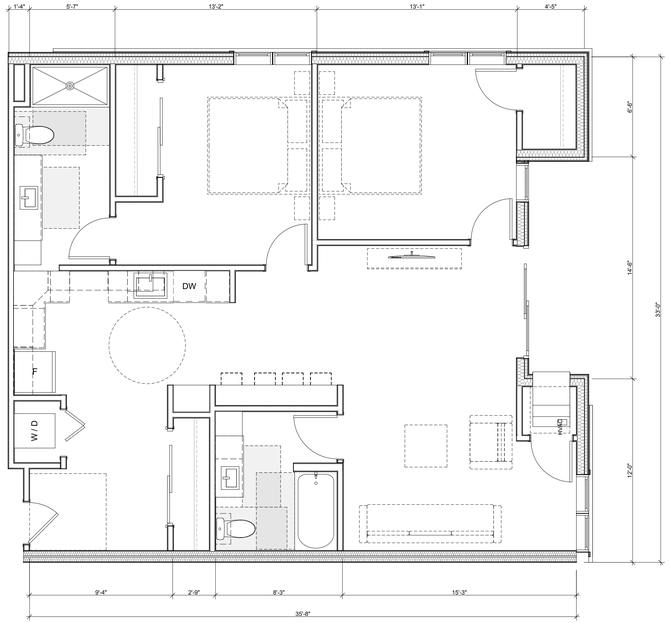
1 A131 2 BED - A
SCALE: 1/4" = 1'-0"



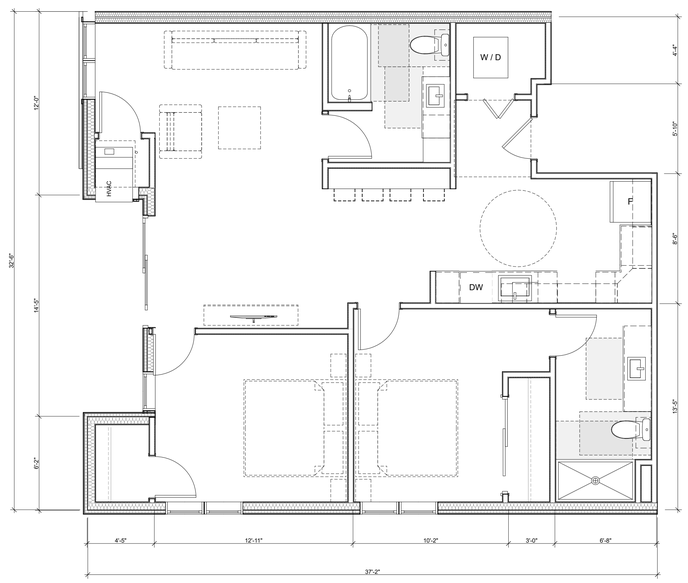
2 A131 2 BED - B
SCALE: 1/4" = 1'-0"



3 A131 2 BED - C
SCALE: 1/4" = 1'-0"



4 A131 2 BED - D
SCALE: 1/4" = 1'-0"



5 A131 2 BED - E
SCALE: 1/4" = 1'-0"

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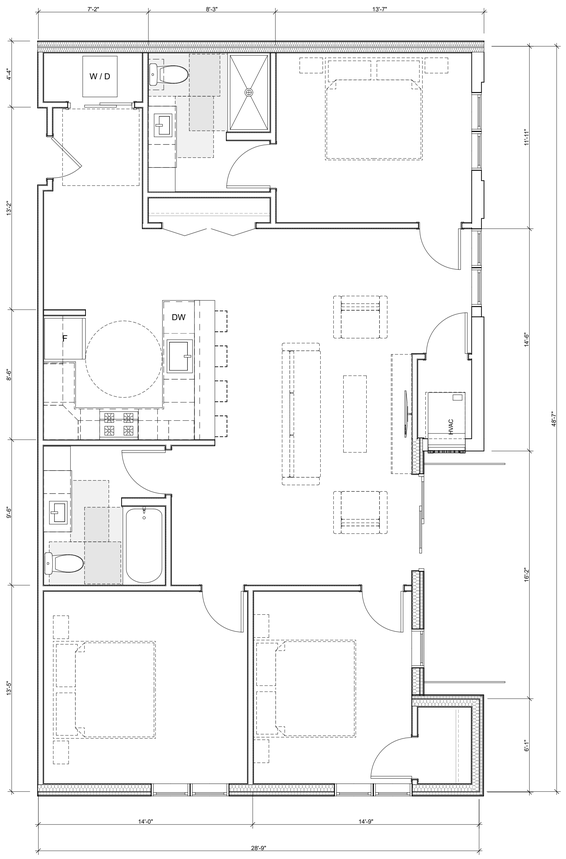
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TYPICAL UNIT PLANS

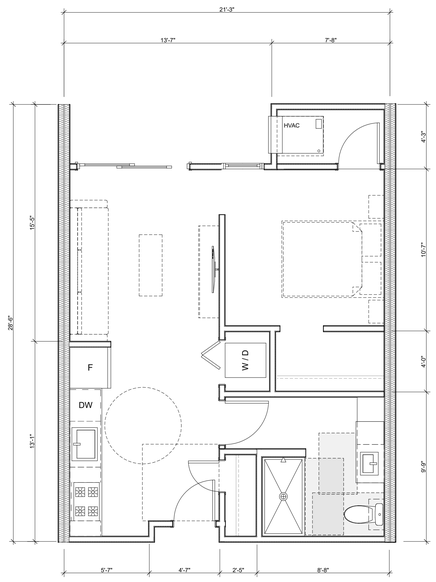
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NOT FOR CONSTRUCTION

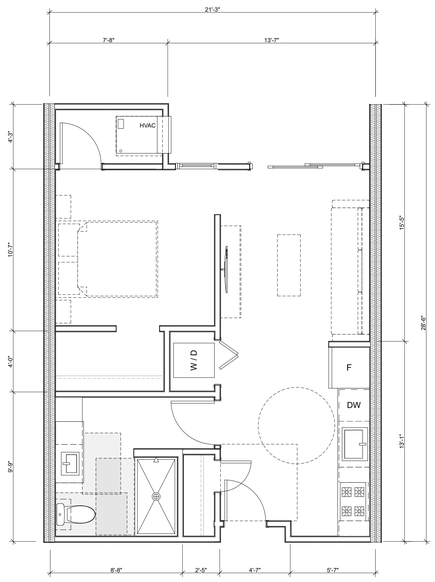
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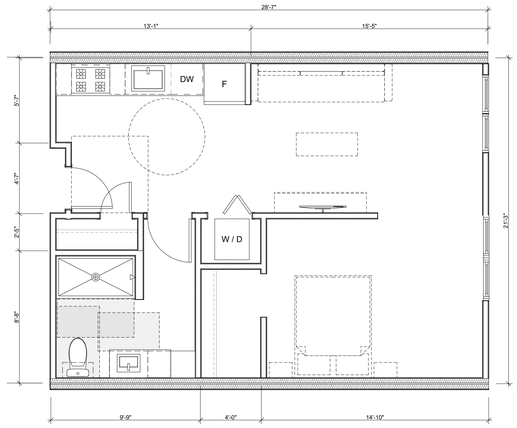
1 A132 3 BED - A
SCALE: 1/4" = 1'-0"



2 A132 STUDIO - A
SCALE: 1/4" = 1'-0"



3 A132 STUDIO - B
SCALE: 1/4" = 1'-0"



4 A132 STUDIO - C
SCALE: 1/4" = 1'-0"

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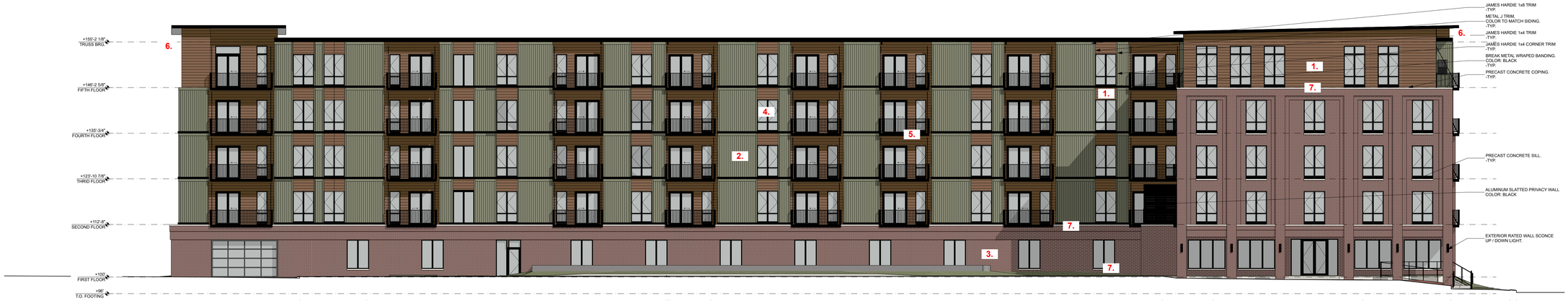
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TYPICAL UNIT PLANS

A132

NOT FOR CONSTRUCTION

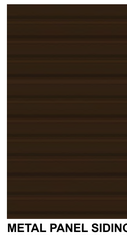
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1 A200 SOUTH ELEVATION
SCALE: 3/32" = 1'-0"



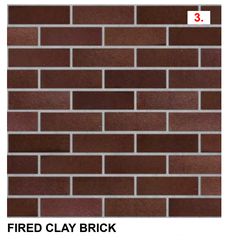
2 A200 WEST ELEVATION
SCALE: 3/32" = 1'-0"



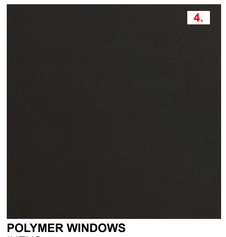
METAL PANEL SIDING
MODERN MATERIALS
MODERN STEEL REVEAL 8"
COLOR: COFFEE BROWN



FIBER CEMENT SIDING
JAMES HARDIE PANEL SIERRA 8
COLOR: IRISH LOWLANDS



FIRED CLAY BRICK
ENDICOTT MEDIUM IRON SPOT 46
COLOR: MEDIUM IRON SPOT



POLYMER WINDOWS
INTUS
COLOR: DARK BRONZE



ALUMINUM BALCONY
LEVANTE
COLOR: LIGHT FIR



STEEL SOFFIT PLANKS
PROBOARD 6 PERFRAORTED
6" V-GROOVE PLANK
COLOR: AUTUMN



PRECAST STONE
ROCKRIDGE CAST STONE
STONE COPING AND WINDOW SILLS
COLOR: LIGHT GUNPOWDER

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ELEVATIONS

A200

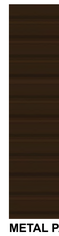
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2 A201 NORTH ELEVATION
SCALE: 3/32" = 1'-0"



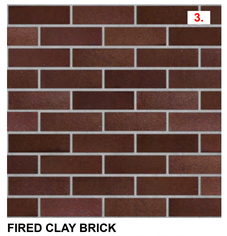
1 A201 EAST ELEVATION
SCALE: 3/32" = 1'-0"



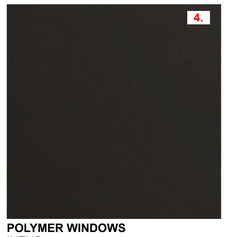
METAL PANEL SIDING
MODERN MATERIALS
MODERN STEEL REVEAL 8"
COLOR: COFFEE BROWN



FIBER CEMENT SIDING
JAMES HARDIE PANEL SIERRA 8
COLOR: IRISH LOWLANDS



FIRED CLAY BRICK
ENDICOTT MEDIUM IRON SPOT 46
COLOR: MEDIUM IRON SPOT



POLYMER WINDOWS
INTUS
COLOR: DARK BRONZE



ALUMINUM BALCONY
LEVANTE
COLOR: LIGHT FIR



STEEL SOFFIT PLANKS
PROBOARD 6 PERFRAORTED
6" V-GROOVE PLANK
COLOR: AUTUMN



PRECAST STONE
ROCKRIDGE CAST STONE
STONE COPING AND WINDOW SILLS
COLOR: LIGHT GUNPOWDER

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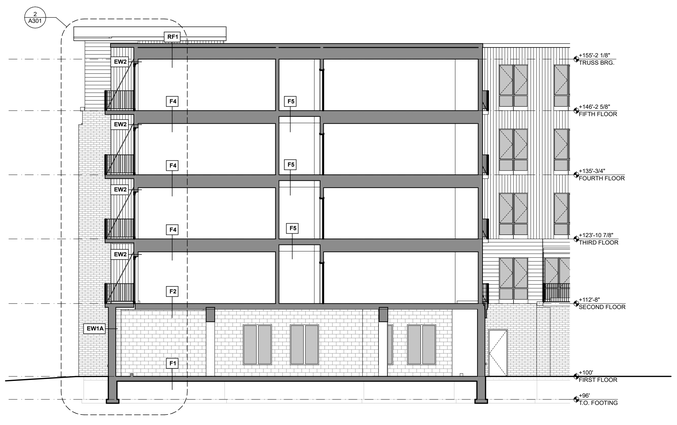
ELEVATIONS

A201

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1 A300 BUILDING SECTION
SCALE: 3/32" = 1'-0"



2 A300 BUILDING SECTION
SCALE: 3/32" = 1'-0"



3 A300 BUILDING SECTION
SCALE: 3/32" = 1'-0"

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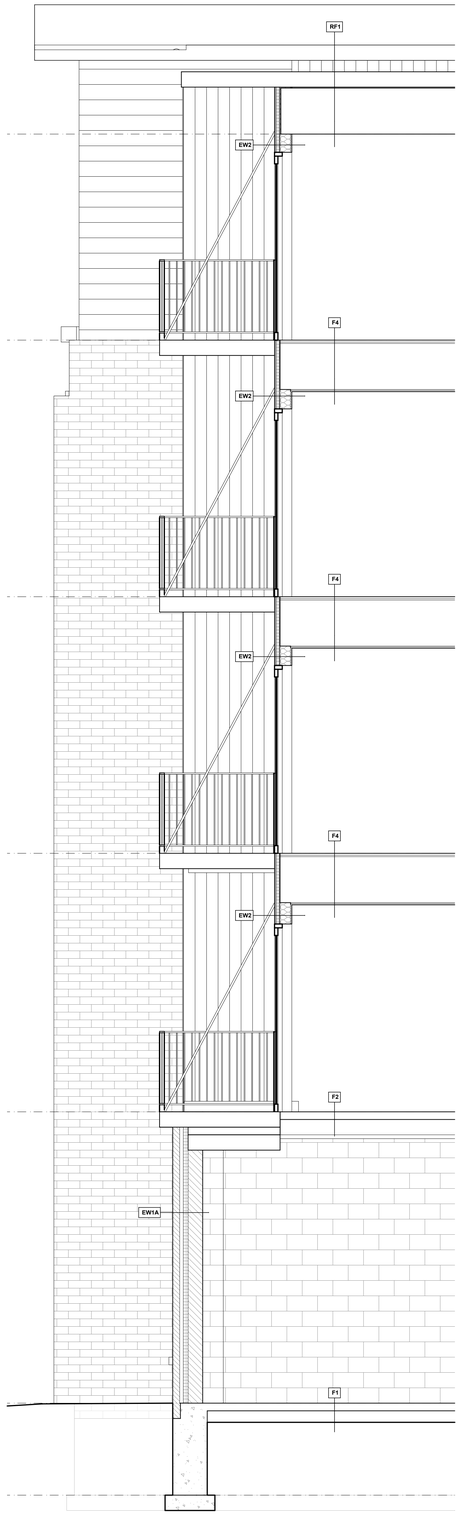
PROJECT # 24.20

BUILDING SECTIONS

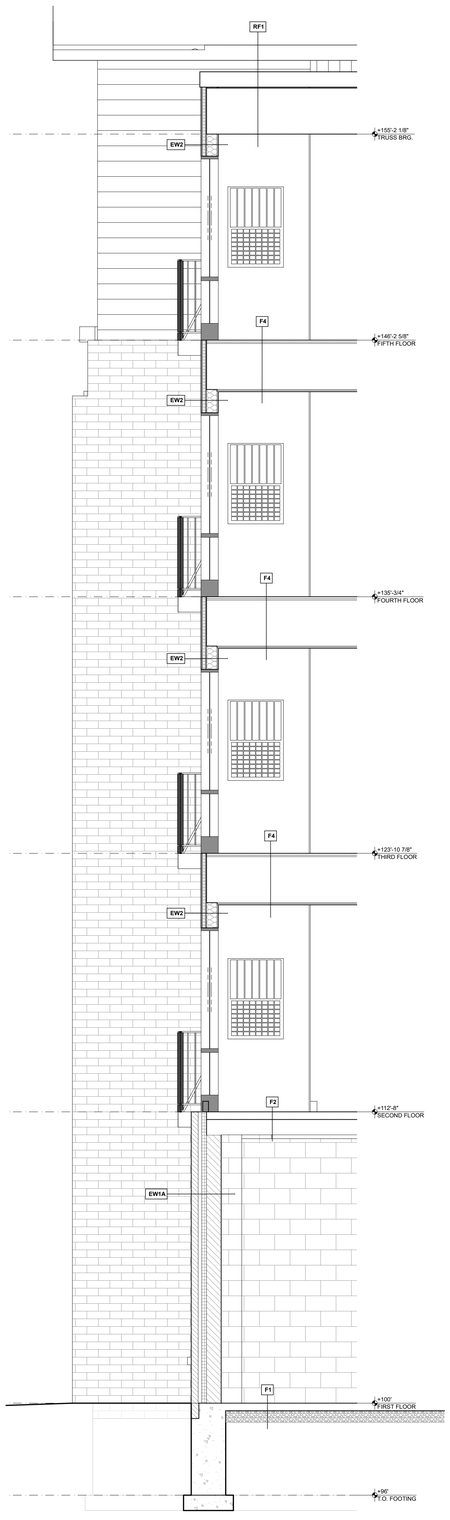
A300

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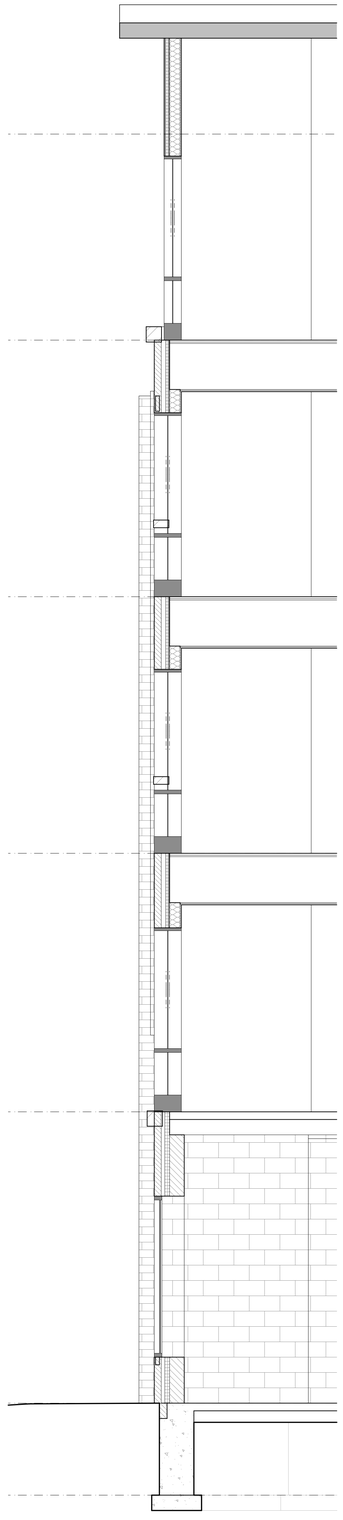
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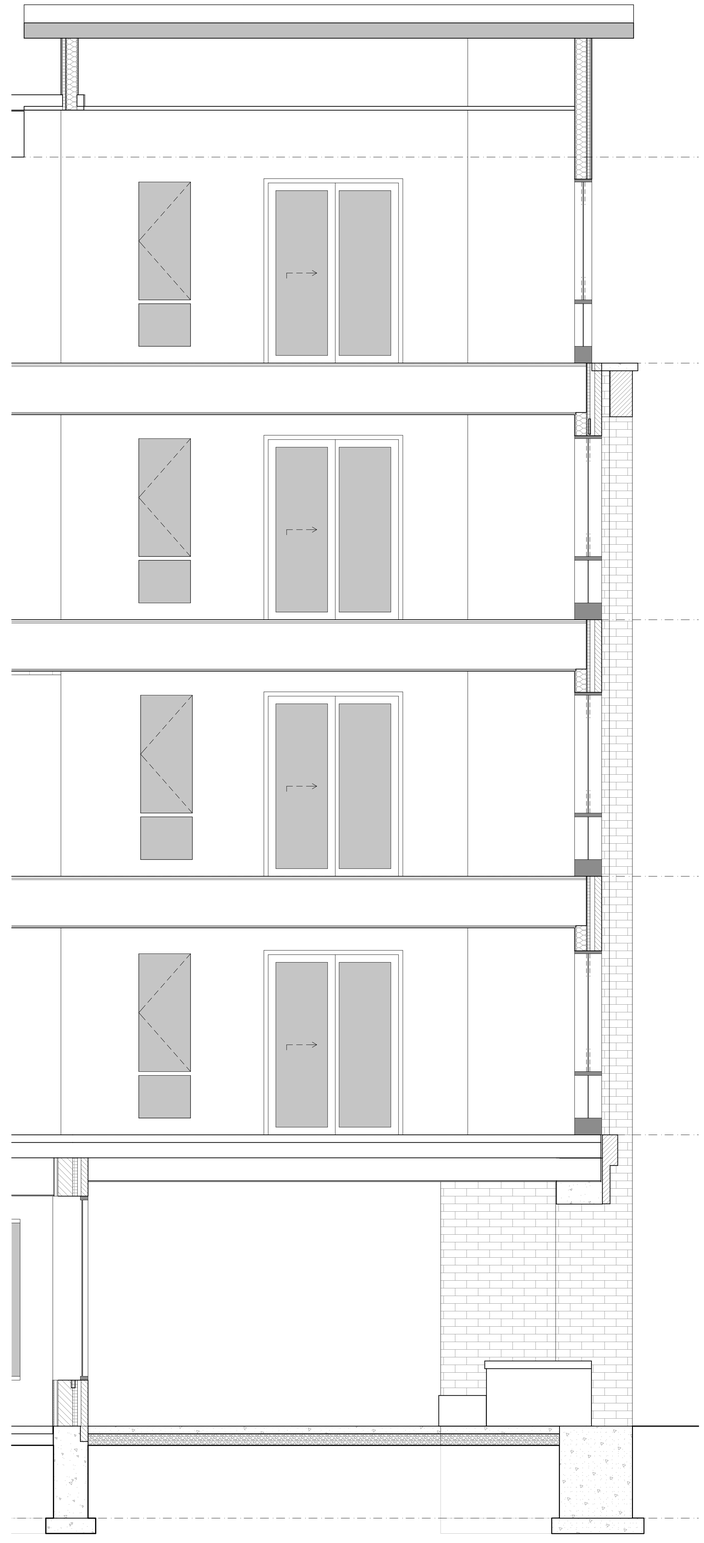
1 A301 WALL SECTION AT BALCONY
SCALE: 3/8" = 1'-0"



2 A301 WALL SECTION AT WOOD
SCALE: 3/8" = 1'-0"



3 A301 WALL SECTION AT BRICK
SCALE: 3/8" = 1'-0"



4 A301 WALL SECTION AT ENTRY
SCALE: 3/8" = 1'-0"

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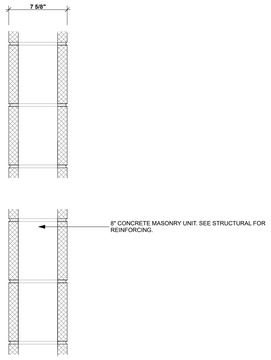
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DRB SET | 12.09.2025

PROJECT # 24.20

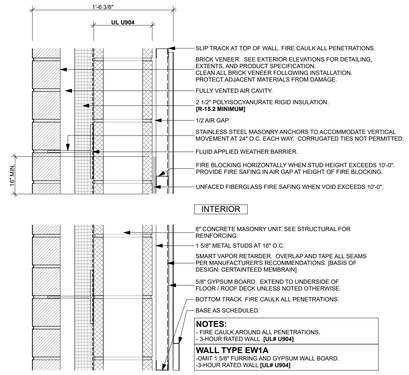
WALL SECTIONS

A301

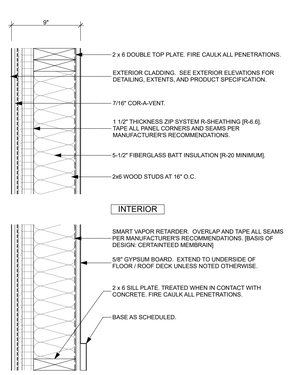
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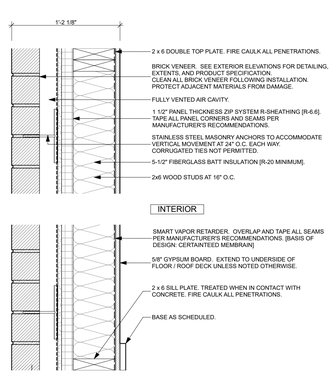
C1 CMU WALL
SCALE: 1 1/2" = 1'-0"



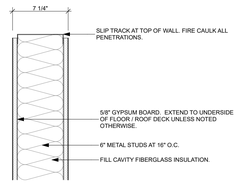
EW1 BRICK VENEER WITH CMU BACKUP
SCALE: 1 1/2" = 1'-0"



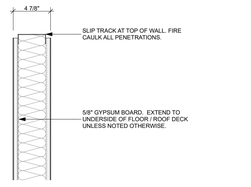
EW2 EXTERIOR SIDING WITH WOOD STUD BACKUP
SCALE: 1 1/2" = 1'-0"



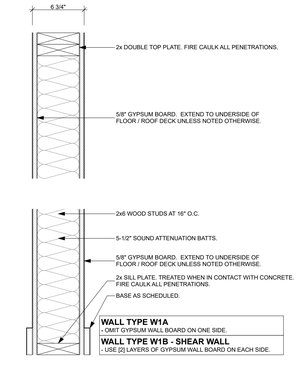
EW3 BRICK VENEER WITH WOOD STUD BACKUP
SCALE: 1 1/2" = 1'-0"



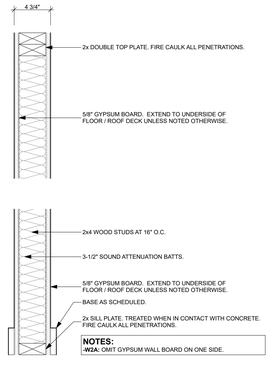
S1 INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



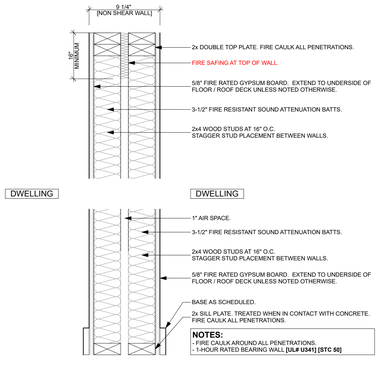
S2 INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



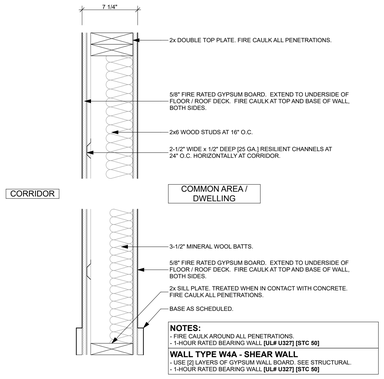
W1 INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



W2 INTERIOR WALL
SCALE: 1 1/2" = 1'-0"



W3 INTERIOR - DWELLING UNIT DEMISING WALL [1-HOUR RATED]
SCALE: 1 1/2" = 1'-0"



W4 INTERIOR - DWELLING UNIT PARTITION WALL [1-HOUR RATED]
SCALE: 1 1/2" = 1'-0"

WALL TYPE - GENERAL NOTES

1. EXTEND ALL WALLS TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
2. PROVIDE ACOUSTICAL SEALANT AT TOP AND BOTTOM OF ALL INTERIOR PARTITION WALLS.
3. TAPE AND MUD GYPSUM WALL BOARD FULL HEIGHT ON ALL WALLS.
4. GYPSUM BOARD WALLS RECEIVING PAINT ARE TO BE FINISHED TO A LEVEL 4 FINISH.
5. GYPSUM BOARD WALLS RECEIVING DARK PAINT AND / OR VINYL WALL COVERINGS ARE TO BE FINISHED TO A LEVEL 5 FINISH.
6. USE MOISTURE RESISTANT GYPSUM WALL BOARD AT ALL WATER WALLS AND AT ALL TOILET AND SHOWER ROOM CEILINGS.
7. ALL WALLS OVER 10 FEET IN HEIGHT WITHOUT BATT INSULATION IN THE FULL CAVITY NEED TO BE FIRE BLOCKED IN ACCORDANCE WITH SECTION 718 OF THE INTERNATIONAL BUILDING CODE.

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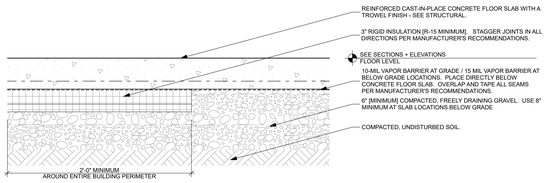
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ASSEMBLY TYPES

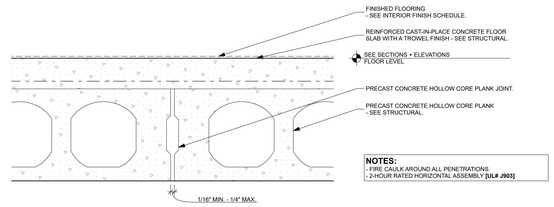
A500

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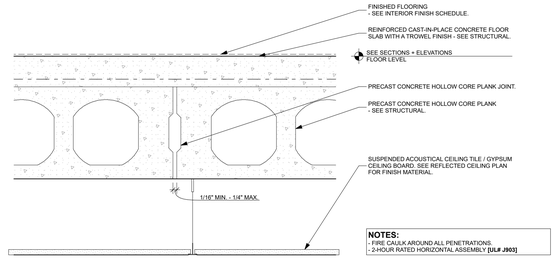
PROVIDE 15 MIL. VAPOR RETARDER IN LIEU OF 10 MIL. VAPOR RETARDER BELOW CONCRETE FLOOR SLAB AT PARKING GARAGE

F1 FLOOR - SLAB ON GRADE - INSULATED
SCALE: 1 1/2" = 1'-0"



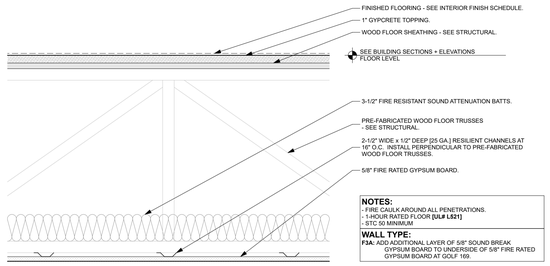
NOTES:
- FIRE CAULK AROUND ALL PENETRATIONS.
- 2-HOUR RATED HORIZONTAL ASSEMBLY **[UL# J903]**

F2 FLOOR - PRECAST CONCRETE PLANK [2 HOUR RATING]
SCALE: 1 1/2" = 1'-0"



NOTES:
- FIRE CAULK AROUND ALL PENETRATIONS.
- 2-HOUR RATED HORIZONTAL ASSEMBLY **[UL# J903]**

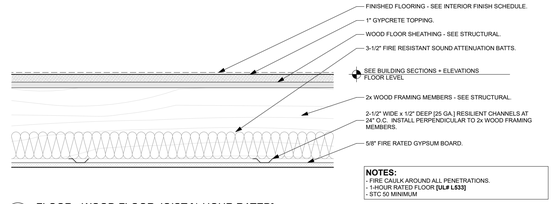
F3 FLOOR - PRECAST CONCRETE PLANK [2 HOUR RATING]
SCALE: 1 1/2" = 1'-0"



NOTES:
- FIRE CAULK AROUND ALL PENETRATIONS.
- 1-HOUR RATED FLOOR **[UL# L521]**
- STC 50 MINIMUM

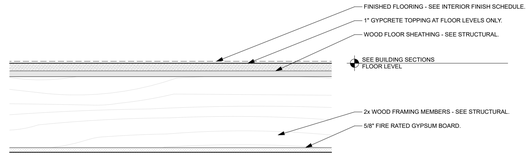
WALL TYPE:
F3A: ADD ADDITIONAL LAYER OF 5/8" SOUND BREAK GYPSUM BOARD TO UNDERSIDE OF 5/8" FIRE RATED GYPSUM BOARD AT GOLF 169.

F4 FLOOR - WOOD FLOOR TRUSS [1-HOUR RATED]
SCALE: 1 1/2" = 1'-0"

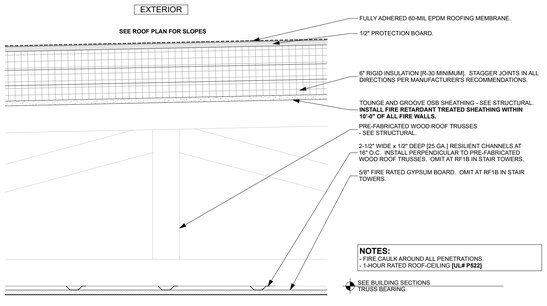


NOTES:
- FIRE CAULK AROUND ALL PENETRATIONS.
- 1-HOUR RATED FLOOR **[UL# L533]**
- STC 50 MINIMUM

F5 FLOOR - WOOD FLOOR JOIST [1-HOUR RATED]
SCALE: 1 1/2" = 1'-0"

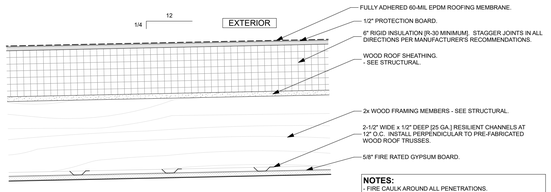


F6 FLOOR - WOOD FLOOR JOIST [STAIR LANDING]
SCALE: 1 1/2" = 1'-0"



NOTES:
- FIRE CAULK AROUND ALL PENETRATIONS.
- 1-HOUR RATED ROOF-CEILING **[UL# P522]**

R1 ROOF - WOOD TRUSS / EPDM MEMBRANE [1-HOUR RATED]
SCALE: 1 1/2" = 1'-0"



NOTES:
- FIRE CAULK AROUND ALL PENETRATIONS.
- 1-HOUR RATED ROOF-CEILING **[UL# P522]**

ROOF TYPE R2A
-(SE ONE LAYER OF 5/8" DENSGLASS SHEATHING W/ PLASTER IN LIEU OF GYPSUM SHEATHING.

R2 ROOF - WOOD JOIST [1-HOUR RATING]
SCALE: 1 1/2" = 1'-0"

WALL TYPE - GENERAL NOTES

1. EXTEND ALL WALLS TO STRUCTURE ABOVE, UNLESS NOTED OTHERWISE.
2. PROVIDE ACOUSTICAL SEALANT AT TOP AND BOTTOM OF ALL INTERIOR PARTITION WALLS.
3. TAPE AND MUD GYPSUM WALL BOARD FULL HEIGHT ON ALL WALLS.
4. GYPSUM BOARD WALLS RECEIVING PAINT ARE TO BE FINISHED TO A LEVEL 4 FINISH.
5. GYPSUM BOARD WALLS RECEIVING DARK PAINT AND / OR VINYL WALL COVERINGS ARE TO BE FINISHED TO A LEVEL 5 FINISH.
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7. ALL WALLS OVER 10 FEET IN HEIGHT WITHOUT BATT INSULATION IN THE FULL CAVITY NEED TO BE FIRE BLOCKED IN ACCORDANCE WITH SECTION 718 OF THE INTERNATIONAL BUILDING CODE.

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PROJECT # 24.20

ASSEMBLY TYPES

A501

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VIEW FROM MAYFAIR ROAD LOOKING NORTH

*** PERSPECTIVES USED TO CONVEY GENERAL LOOK OF THE DESIGN; SEE SUBSEQUENT DRAWINGS FOR DETAILS AND DIMENSIONS.



VIEW ACROSS PARKING LOT LOOKING EAST



VIEW FROM MAYFAIR ROAD LOOKING SOUTH

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MAYFAIR APARTMENTS

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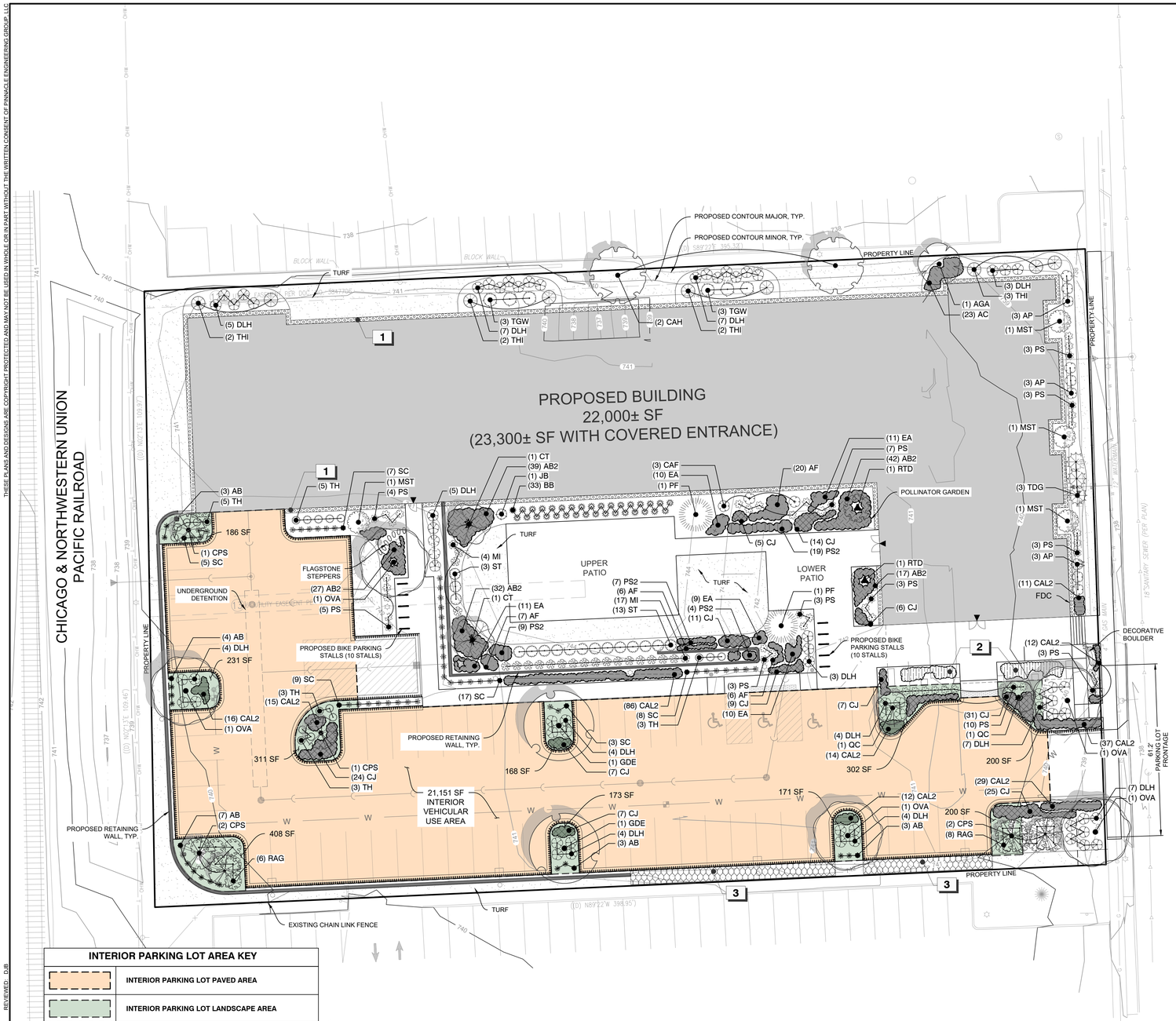
RENDERINGS

A900

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PLANT SCHEDULE SITE

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE
DECIDUOUS TREES				
CAH	2	Carpinus caroliniana	Musclewood	2" Cal.
CPS	6	Celtis occidentalis 'Prairie Sentinel'	Prairie Sentinel Hackberry	2" Cal.
GDE	2	Gymnocladus dioicus 'Espresso'	Espresso Kentucky Coffeetree	2" Cal.
OVA	5	Ostrya virginiana	American Hophornbeam	2" Cal.
QC	2	Quercus bicolor 'Bonnie and Mike'	Beacon® Oak	2" Cal.
ORNAMENTAL TREES				
AGA	1	Amelanchier x grandiflora 'Autumn Brilliance'	Autumn Brilliance Serviceberry	1.5" Cal.
CT	2	Cercis canadensis 'NC2016-2'	Flame Thrower® Eastern Redbud	6` Ht.
DECIDUOUS SHRUBS				
AP	9	Aronia melanocarpa 'SMNAMPEM'	Low Scape Snowfire™ Black Chokeberry	15" Ht.
CAF	3	Cornus stolonifera `Arctic Fire`	Arctic Fire Dogwood	15" Ht.
DLH	64	Diervilla lonicera	Dwarf Bush Honeysuckle	24" Ht.
MST	4	Magnolia stellata	Star Magnolia	36" Ht.
RAG	14	Rhus aromatica `Gro-Low`	Gro-Low Fragrant Sumac	15" Ht.
RTD	2	Rhus typhina `Dissecta`	Cutleaf Staghorn Sumac	36" Ht.
ST	16	Spiraea betulifolia 'Tor Gold'	Glow Girl® Birchleaf Spirea	15" Ht.
EVERGREEN SHRUBS				
JB	1	Juniperus scopulorum 'Blue Arrow'	Blue Arrow Juniper	4` Ht.
PF	2	Pinus strobus 'Fastigiata'	Pyramidal White Pine	4` Ht.
THI	9	Taxus x media `Hicksii`	Hicks Yew	5` Ht.
TDG	3	Thuja occidentalis `Nigra`	Dark Green Arborvitae	4` Ht.
TH	19	Thuja occidentalis 'Hetz Midget'	Hetz Midget Arborvitae	24" W
TGW	6	Tsuga canadensis `Gentsh White`	Gentsh White Hemlock	4` Ht.
ORNAMENTAL GRASSES				
AB	20	Andropogon gerardii 'Blackhawks'	Blackhawks Big Bluestem	1 gal.
BB	33	Bouteloua gracilis 'Blonde Ambition'	Blonde Ambition Blue Grama	1 gal.
MI	21	Miscanthus sinensis 'Fire Dragon'	Fire Dragon Eulalia Grass	1 gal.
PS	47	Panicum virgatum 'Shenandoah'	Shenandoah Switch Grass	1 gal.
SC	49	Schizachyrium scoparium 'Carousel'	Carousel Little Bluestem	1 gal.

CODE	QTY	BOTANICAL NAME	COMMON NAME	SIZE	SPACING
PERENNIALS					
AF	39	Agastache x 'Blue Fortune'	Blue Fortune Anise Hyssop	4.5" cont.	24" o.c.
AB2	157	Amsonia x 'Blue Ice'	Blue Ice Bluestar	4.5" cont.	24" o.c.
AC	23	Asarum canadense	Wild Ginger	4.5" cont.	24" o.c.
CAL2	232	Calamintha nepeta 'Blue Cloud'	Blue Cloud Calamint	4.5" cont.	18" o.c.
CJ	146	Coreopsis x 'Jethro Tull'	Jethro Tull Tickseed	4.5" cont.	24" o.c.
EA	51	Echinacea purpurea 'Alba'	White Coneflower	4.5" cont.	24" o.c.
PS2	39	Phlox subulata 'Snowflake'	Snowflake Creeping Phlox	4.5" cont.	24" o.c.

SYMBOL	QTY	BOTANICAL NAME	COMMON NAME
GROUND COVERS			
	8,485 sf	TURF	

INTERIOR PARKING LOT AREA KEY	
	INTERIOR PARKING LOT PAVED AREA
	INTERIOR PARKING LOT LANDSCAPE AREA

	LANDSCAPE IMPROVEMENT TABLE	REQUIRED	PROVIDED
24.12.020(B)(1)	PERIMETER VEHICULAR USE AREA LANDSCAPING • 10 FT WIDE BUFFER • 1 TREE / 50 LF FRONTAGE • 8 SHRUBS / 50 LF FRONTAGE	YES 2 TREES 10 SHRUBS	YES 2 TREES 10 SHRUBS
24.12.030(B)(2)	INTERIOR PARKING LOT LANDSCAPE AREA • 10% OF THE INTERIOR VEHICULAR USE AREA	2,115 SF	2,350 SF
24.12.030(B)(3)(d)	PARKING INTERIOR TREES • 1 TREE / 180 SF REQ. INTERIOR LANDSCAPE AREA	12 TREES	12 TREES

REFERENCE NOTES SCHEDULE			
SYMBOL	CODE	DESCRIPTION	QTY
	1	STONE MAINTENAINCE STRIP	1,420 sf
	2	ANNUAL PLANTINGS (BY OTHERS)	176 sf
	3	SNOW STORAGE AREAS	595 sf

NORTH

GRAPHICAL SCALE (FEET)

0 1" = 20' 40'

LANDSCAPE PLAN

REVIEWED: DJB
DESIGNED: HLY
DRAFTED: HLY

PINNACLE ENGINEERING GROUP
ENGINEERING I NATURAL RESOURCES I SURVEYING
PLAN I DESIGN I DELIVER
www.pinnacle-engr.com
WISCONSIN OFFICE:
20725 WATERTOWN ROAD, SUITE 100
BROOKFIELD, WI 53186
(262) 754-8888
CHICAGO I MILWAUKEE : NATIONWIDE

LATITUDE 43

WAUWATOSA, WI

LANDSCAPE PLAN

REVISIONS

PEG JOB No 6675.00-WI
PEG PM APM
START DATE 10/7/25
SCALE 1" = 20'

SHEET L-1 OF L-2

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Z:\PROJECTS\2025\6675.00-WI\CAD\SHEETS\6675.00-WI LANDSCAPE PLAN.DWG

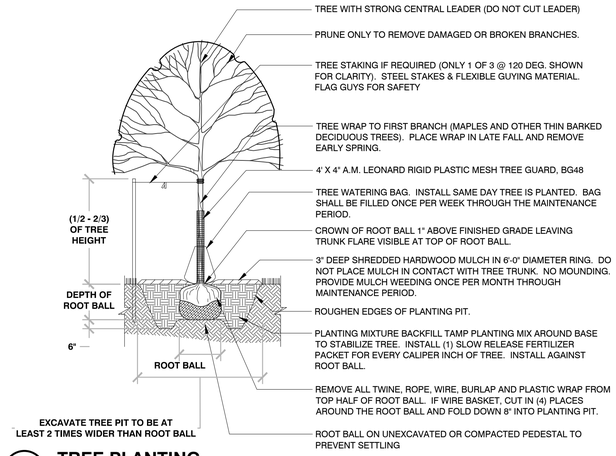
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GENERAL PLANTING NOTES

1. THE LAYOUT OF ALL PLANTING BEDS AND INDIVIDUAL TREES AND SHRUBS SHALL BE STAKED BY THE CONTRACTOR IN ADVANCE OF INSTALLATION. FLAGGING, STAKES, OR PAINT MAY BE USED TO DELINEATE LOCATIONS AS SCALED FROM THE PLANS. AN APPROVED REPRESENTATIVE WILL REVIEW THESE LOCATIONS WITH THE CONTRACTOR AND MAKE MINOR ADJUSTMENTS AS NECESSARY. BED LAYOUT SHALL ALSO INCLUDE PERENNIAL GROUPINGS BY SPECIES.
2. THE CONTRACTOR IS RESPONSIBLE FOR INDEPENDENTLY DETERMINING THE PLANT MATERIAL QUANTITIES REQUIRED BY THE LANDSCAPE PLANS. REPORT ANY DISCREPANCIES TO THE LANDSCAPE ARCHITECT.
3. NO PLANT MATERIAL OR PLANT SIZE SUBSTITUTIONS WILL BE ACCEPTED WITHOUT APPROVAL BY THE LANDSCAPE ARCHITECT. ANY CHANGES SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT IN WRITING PRIOR TO INSTALLATION.
4. ALL BNB STOCK SHALL BE NURSERY GROWN IN A CLAY LOAM SOIL FOR A MINIMUM OF THREE GROWING SEASONS WITHIN 200 MILES OF PROJECT LOCATION, IN A ZONE COMPATIBLE WITH USDA HARDINESS ZONE 5A. SEED SHALL BE PROVIDED FROM A NURSERY (WITHIN 200 MILES) WITH A SIMILAR PLANT HARDINESS ZONE AS PROJECT LOCATION. EXISTING SOIL SHALL BE AMENDED PER SOIL ANALYSIS REPORT TO ENSURE A PROPER GROWING MEDIUM IS ACHIEVED.
5. ALL PLANT MATERIAL SHALL COMPLY WITH STANDARDS DESCRIBED IN AMERICAN STANDARD OF NURSERY STOCK - Z60.1 ANSI. LANDSCAPE ARCHITECT OR OWNERS AUTHORIZED REPRESENTATIVE RESERVES THE RIGHT TO INSPECT AND POTENTIALLY REJECT ANY PLANT MATERIAL DEEMED TO NOT MEET THE REQUIRED STANDARDS.
6. ALL STOCK SHALL BE FREE OF DISEASES AND HARMFUL INSECTS, DAMAGE, DISORDERS AND DEFORMITIES.
7. TREES SHALL HAVE SINGLE, STRAIGHT TRUNKS AND WELL BALANCED BRANCH SYSTEMS. MUTLI-STEM TREES SHALL HAVE 3-4 STRAIGHT TRUNKS AND WELL BALANCED BRANCH SYSTEMS. HEIGHT-TO-CALIPER RATIOS SHALL BE CONSISTENT WITH THE LATEST EDITION OF ANSI Z60.1.
8. ROOT SYSTEMS SHALL BE LARGE ENOUGH TO ALLOW FOR FULL RECOVERY OF THE TREE, AND SHALL CONFORM TO STANDARDS AS THEY APPEAR IN THE MOST CURRENT REVISION OF THE AMERICAN ASSOCIATION OF NURSERYMEN'S AMERICAN STANDARD OF NURSERY STOCK ANSI Z60.1.
9. BNB TREES SHALL BE DUG WITH A BALL OF SOIL, NOT SOFT BALLED OR POTTED AND SHALL BE FIRM IN THEIR ROOTBALL. ROOT BALL SHALL BE WRAPPED (WITH BIODEGRADABLE MATERIAL). THE TREE ROOT FLARE, OR COLLAR, SHALL BE AT OR WITHIN THE TOP THREE INCHES OF GRADE.
10. ALL SPRING TREES MUST BE FRESHLY DUG IN THE MOST RECENT SPRING.
11. ALL AUTUMN TREES MUST BE FRESHLY DUG IN THE MOST RECENT AUTUMN.
12. TREES SHALL BE ALIVE, HEALTHY AND APPROPRIATELY MOIST, AT TIME OF DELIVERY. TREES SHALL BE SUBJECT TO INSPECTION FOR CONFORMITY TO SPECIFICATION REQUIREMENTS AND APPROVAL BY THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE. THE LANDSCAPE ARCHITECT OR OWNERS REPRESENTATIVE RESERVES THE RIGHT TO REJECT ANY TREES THAT DO NOT MEET THE SPECIFICATIONS OR THAT HAVE BEEN DAMAGED DURING SHIPMENT. THE LANDSCAPE INSTALLER MUST RECEIVE APPROVAL FROM LANDSCAPE ARCHITECT FOR ANY SUBSTITUTIONS OR ALTERATIONS.
13. ALL PLANT MATERIAL SHALL BE INSTALLED IN ACCORDANCE WITH PLANTING DETAILS.
14. ALL PLANTING BEDS SHALL HAVE A MINIMUM 10" DEPTH OF PREPARED SOIL. WITH APPROVAL, EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 10" OF SOIL. REFER TO SOIL PLACEMENT NOTES.
15. WHILE PLANTING TREES AND SHRUBS, BACKFILL ⅔ OF PLANTING HOLE AND WATER TREE THOROUGHLY BEFORE INSTALLING THE REMAINDER OF SOIL MIXTURE. AFTER ALL SOIL HAS BEEN PLACED INTO THE PLANTING HOLE WATER THOROUGHLY AGAIN.
16. THE CONTRACTOR MUST LABEL ALL TREES WITH THE COMMON AND BOTANICAL NAMES PRIOR TO FINAL INSPECTION.
17. OAK TREES SHALL BE TREATED FOR TWO-LINE CHESTNUT BORER BOTH AT THE TIME OF INSTALLATION AND DURING THE SECOND GROWING SEASON.
18. ALL PLANTING BEDS SHALL BE MULCHED WITH 3" DEEP SHREDDED HARDWOOD MULCH, AND ALL TREES PLANTED IN TURF AREAS SHALL RECEIVE A 3" DEEP SHREDDED HARDWOOD MULCHED RING AS SHOWN IN PLANTING DETAILS.
19. ALL PLANTING BEDS AND TREE RINGS SHALL HAVE A 4" DEEP TRENCHED BED EDGE CREATED BY EITHER A FLAT LANDSCAPE SPADE OR MECHANICAL EDGER. BED EDGES ARE TO BE CUT CLEAN AND SMOOTH AS SHOWN ON LANDSCAPE PLANS WITH A CLEAN DEFINITION BETWEEN TURF AND PLANTING AREAS.
20. ALL AREAS RECEIVING STONE MULCH TO RECEIVE STEEL BED EDGING. CONTRACTOR TO PROVIDE STEEL EDGING SPECIFICATION FOR APPROVAL PRIOR TO INSTALLATION. STEEL EDGING TO BE INSTALLED PER MANUFACTURERS RECOMMENDATION.
21. AREAS THAT CALL FOR STONE MULCH SHALL RECEIVE LANDSCAPE FABRIC WITH 3" DEEP ALPINE STONE MULCH. REFER TO STONE MULCH DETAILS . CONTRACTOR TO PROVIDE LANDSCAPE FABRIC AND MULCH SPECIFICATIONS TO LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. LANDSCAPE FABRIC SHALL BE INSTALLED TO COVER THE ENTIRE AREA TO RECEIVE STONE MULCH WITH EACH SEAM OVERLAPPING A MINIMUM OF 6".
22. ALL TURF SEED AREAS SHALL RECEIVE A MINIMUM OF 6" DEPTH OF TOPSOIL. WITH APPROVAL, EXISTING SOIL MAY BE UTILIZED PROVIDED THE PROPER SOIL AMENDMENTS ARE TILLED THOROUGHLY INTO THE TOP 6" OF SOIL AS INDICATED IN THE SOIL PLACEMENT NOTES. REQUIRED AMENDMENTS SHALL BE DETERMINED BASED ON A SOIL ANALYSIS TO BE PERFORMED. ALL TOPSOIL AMENDMENT SHALL BE AGED WEED FREE MANURE OR CLASS 1 ORGANIC MATTER.
23. FOR LAWN SEEDING, APPLY A STARTER FERTILIZER AND SEED UNIFORMLY AT THE RATE RECOMMENDED BY MANUFACTURER, AND PROVIDE A MULCH COVERING THAT IS SUITABLE TO PROMOTE SEED GERMINATION AND TURF ESTABLISHMENT. CONTRACTOR TO PROVIDE FERTILIZER, SEED, AND MULCH SPECIFICATIONS TO THE LANDSCAPE ARCHITECT FOR APPROVAL PRIOR TO INSTALLATION. EROSION CONTROL MEASURES ARE TO BE INSTALLED IN THOSE AREAS REQUIRING STABILIZATION (SWALES, SLOPES EXCEEDING 1:3, AND THOSE LOCATIONS INDICATED IN CIVIL DRAWINGS).
24. THE CONTRACTOR TO ENSURE A SMOOTH, UNIFORM QUALITY TURF IS ACHIEVED WITH NO BARE SPOTS LARGER THAN 6" X 6". ANY BARE SPOTS LARGER THAN 6" X6" AT THE END OF ESTABLISHMENT PERIOD SHALL BE RESEEDED AT THE CONTRACTORS EXPENSE TO OBTAIN A DENSE, UNIFORM LAWN.
25. ALL FINISH GRADING AND LAWN AREAS TO BE INSTALLED BY LANDSCAPE CONTRACTOR.
26. ALL DISTURBED AREAS WITHIN THE PROJECT SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION.
27. ALL DISTURBED AREAS OUTSIDE THE LIMITS OF WORK SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION AT NO ADDITIONAL COST TO THE OWNER.
28. THE CONTRACTOR SHALL VERIFY ALL EXISTING UTILITIES, INCLUDING ANY IRRIGATION LINES, PRIOR TO DIGGING. CONSULT DIGGERS HOTLINE.
29. TREES SHALL BE INSTALLED NO CLOSER THAN:
    - -10 FEET FROM ANY FIRE HYDRANT
    - 7 FEET FROM STORM SEWER, SANITARY SEWER LATERALS, DRIVEWAYS, AND WATER SERVICE
30. THE CONTRACTOR SHALL ENSURE THAT SOIL CONDITIONS AND COMPACTION ARE ADEQUATE TO ALLOW FOR PROPER DRAINAGE AROUND THE CONSTRUCTION SITE. UNDESIRABLE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE LANDSCAPE ARCHITECT PRIOR TO BEGINNING OF WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE PROPER SURFACE AND SUBSURFACE DRAINAGE IN ALL AREAS
31. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS, FEES, AND LICENSES NECESSARY FOR THE INSTALLATION OF THIS PLAN.
32. THE CONTRACTOR IS TO REVIEW ALL SITE ENGINEERING DOCUMENTS PRIOR TO INSTALLATION. ANY CONFLICTS MUST BE REPORTED TO THE LANDSCAPE ARCHITECT. THESE LANDSCAPE DRAWINGS ARE FOR THE INSTALLATION OF PLANT MATERIALS ONLY UNLESS OTHERWISE STATED.
33. THE CONTRACTOR SHALL PROVIDE WATERING AND MAINTENANCE SERVICES FOR A PERIOD OF 60 DAYS TO ENSURE VEGETATIVE ESTABLISHMENT. UPON COMPLETION OF THE PROJECT, CONTRACTOR SHALL SUPPLY THE OWNER IN WRITING WITH ONGOING WATERING AND MAINTENANCE INSTRUCTIONS.
34. PLANT MATERIALS SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM TIME OF OWNER ACCEPTANCE. ONLY ONE REPLACEMENT PER PLANT WILL BE REQUIRED DURING THE WARRANTY PERIOD EXCEPT IN THE EVENT OF FAILURE TO COMPLY WITH THE SPECIFIED REQUIREMENTS.
35. THE CONTRACTOR IS RESPONSIBLE TO CONDUCT A FINAL WALK THROUGH WITH THE LANDSCAPE ARCHITECT AND OR OWNERS REPRESENTATIVE TO ANSWER QUESTIONS, PROVIDE INSTRUCTIONS, AND ENSURE THAT PROJECT REQUIREMENTS HAVE BEEN MET.

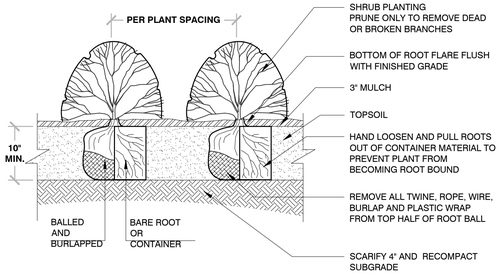
SOIL PLACEMENT NOTES

1. LOOSEN SUBGRADE TO A MINIMUM DEPTH INDICATED IN PLANTING NOTES USING A CULTI-MULCHER OR SIMILAR EQUIPMENT, AND REMOVE STONES MEASURING OVER 1-1/2 INCHES IN ANY DIMENSION, STICKS, RUBBISH AND OTHER EXTRANEOUS MATTER. AREAS ADJACENT TO WALKS AND PAVEMENT SHALL BE FREE OF EXCESS STONE AND PAVING MATERIALS SO AS TO PROVIDE AN UNINTERRUPTED CROSS SECTION OF SOIL. INTERNAL PARKING ISLANDS SHALL BE LOOSENED TO A DEPTH OF 30".
2. THOROUGHLY BLEND PLANTING SOIL MIX FOR PLANTING BED AREAS. (1 PART EXISTING SOIL, 1 PART TOPSOIL, 1 PART ORGANIC SOIL AMENDMENT, 2.9 POUNDS PER CUBIC YARD OF 4-4-4 ANALYSIS SLOW-RELEASE FERTILIZER)
3. TREE AND SHRUB HOLES SHALL BE FILLED WITH A PREPARED PLANTING MIXTURE OF 1 PART TOPSOIL, 2 PARTS PLANTING SOIL MIX.
4. SPREAD SOIL AND SOIL AMENDMENTS TO DEPTH INDICATED ON DRAWINGS, BUT NOT LESS THAN REQUIRED TO MEET FINISH GRADES AFTER NATURAL SETTLEMENT. (FINISH GRADE OF PLANTING BEDS SHALL BE 3" BELOW ALL ADJACENT SURFACES. FINISH GRADE OF TURF SEEDING AREAS SHALL BE 1" BELOW ALL ADJACENT HARD SURFACES, WALKS, AND CURBS.)
5. PLACE APPROXIMATELY 1/2 OF TOTAL AMOUNT OF SOIL REQUIRED. WORK INTO TOP OF LOOSENED SUBGRADE TO CREATE A TRANSITION LAYER, THEN PLACE REMAINDER OF THE SOIL. SOIL TRANSITION LAYER SHALL BE TILLED TO A MINIMUM DEPTH OF 6" BELOW THE DEPTH OF NEWLY PLACED SOIL. PARKING LOT ISLANDS SHALL BE CROWNED TO A HEIGHT OF 6" TO PROVIDE PROPER DRAINAGE UNLESS OTHERWISE NOTED.
6. DO NOT SPREAD IF PLANTING SOIL OR SUBGRADE IS FROZEN, MUDDY, OR EXCESSIVELY WET.
7. FINISH GRADING: GRADE SOIL TO A SMOOTH, UNIFORM SURFACE PLANE WITH A LOOSE, UNIFORMLY FINE TEXTURE.
8. ROLL AND RAKE, REMOVE RIDGES, AND FILL DEPRESSIONS TO MEET FINISH GRADES.
9. RESTORE PLANTING BEDS IF ERODED OR OTHERWISE DISTURBED AFTER FINISH GRADING AND BEFORE PLANTING.



1 TREE PLANTING

1/4" = 1'-0" 329343-01

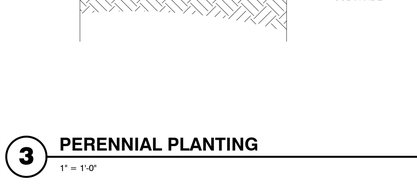


BAREROOT PLANTING NOTES:

1. SOAK ROOTS IN WATER FOR AT LEAST ONE HOUR BUT NOT MORE THAN 24 HOURS PRIOR TO PLANTING.
2. SCARIFY SIDES AND BOTTOMS OF HOLE.
3. PROCEED WITH CORRECTIVE PRUNING OF THE TOP AND BOTTOM ROOTS.
4. TRANSFER PLANT DIRECTLY FROM WATER TO HOLE. SET PLANT SO THE ROOT FLARE IS APPROXIMATELY AT THE FINISHED SOIL ELEVATION. SPREAD ROOTS OUT EVENLY. PLUMB AND IMMEDIATELY BACKFILL WITH PLANTING SOIL MIX.
5. WATER THOROUGHLY WITHIN 2 HOURS TO SETTLE PLANTS AND FILL VOIDS.
6. BACKFILL VOIDS AND WATER SECOND TIME.
7. PLACE MULCH WITHIN 48 HOURS OF THE SECOND WATERING UNLESS SOIL MOISTURE IS EXCESSIVE.

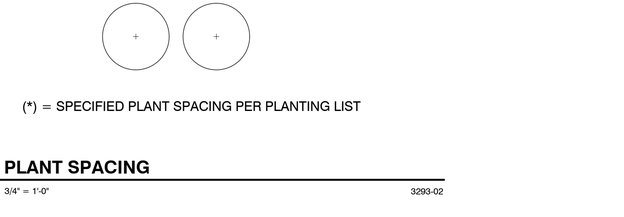
2 SHRUB PLANTING

1/2" = 1'-0" 329333-02



3 PERENNIAL PLANTING

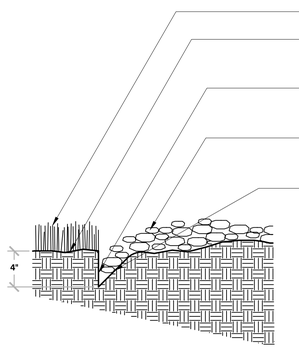
1" = 1'-0" 3293-01



(*) = SPECIFIED PLANT SPACING PER PLANTING LIST

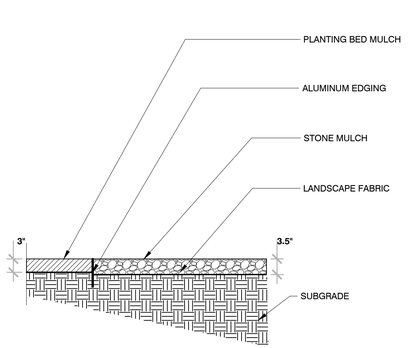
4 PLANT SPACING

3/4" = 1'-0" 3293-02



5 TRENCHED BED EDGE

3/4" = 1'-0" 3293-03



STEEL EDGING

6 STONE MAINTENANCE STRIP

3/4" = 1'-0" 329413-01

PLAN I DESIGN I DELIVER
www.pinnacle-engr.com
PINNACLE ENGINEERING GROUP
ENGINEERING I NATURAL RESOURCES I SURVEYING
WISCONSIN OFFICE:
20725 WATERTOWN ROAD, SUITE 100
BROOKFIELD, WI 53186
(262) 754-8888
CHICAGO I MILWAUKEE : NATIONWIDE

LATITUDE 43

WAUWATOSA, WI

LANDSCAPE GENERAL NOTES & DETAILS

REVISIONS

PEG JOB No 6675.00-WI
PEG PM APM
START DATE 10/7/25
SCALE VARIES

SHEET L-2 OF L-2

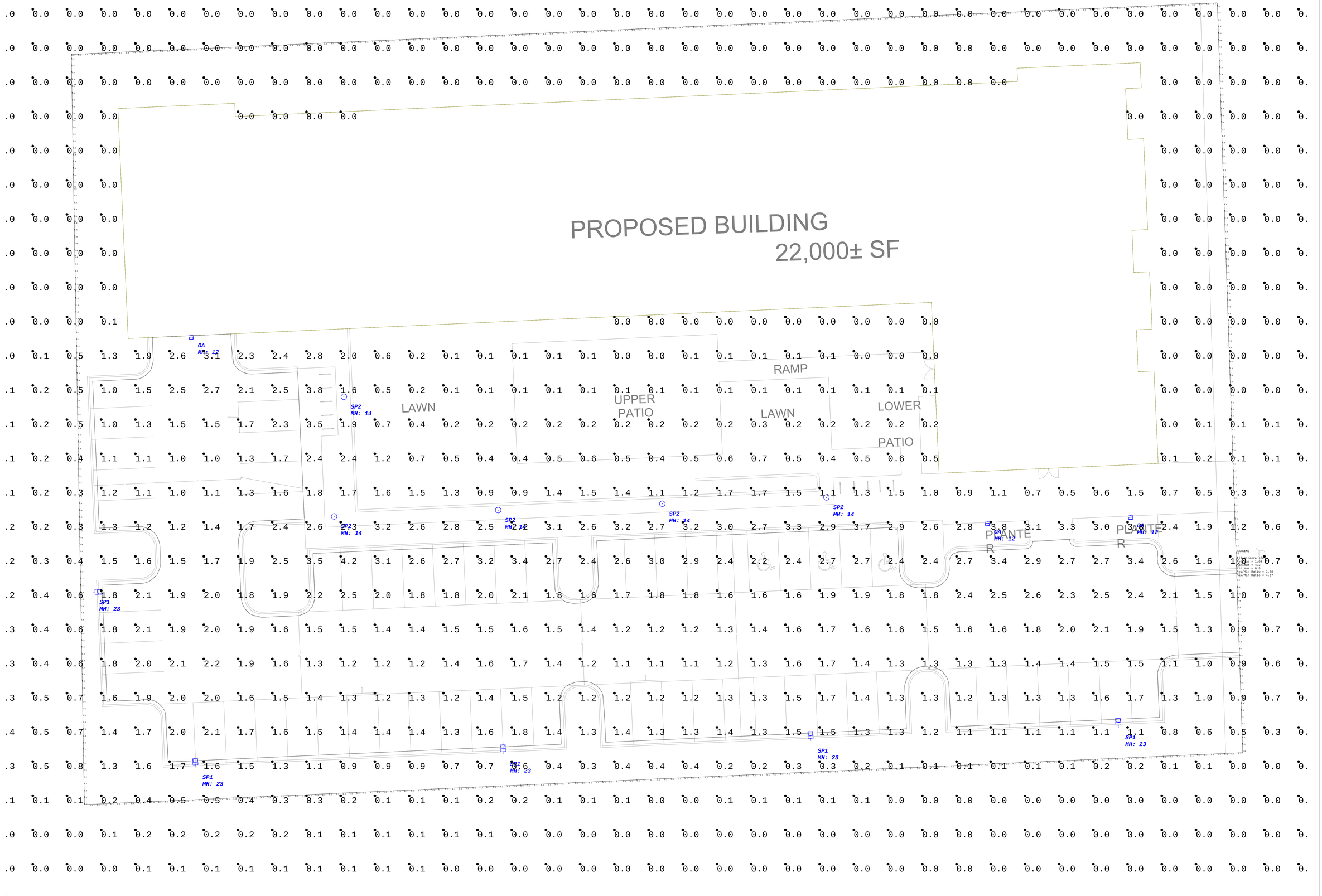
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LANDSCAPE GENERAL NOTES & DETAILS

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REVIEWED DJB
DESIGNED RLY
DRAFTED RLY

Z:\PROJECTS\2025\6675.00-WI\CAD\SHEETS\6675.00-WI LANDSCAPE PLAN.DWG



1. Standard Reflectance of 80/50/20 unless noted otherwise
2. Not a Construction Document, for Design purposes only
3. Standard indoor calc points @ 30" A.F.F. unless noted otherwise
4. Standard outdoor calc points @ Grade unless noted otherwise
5. Egress calc points @ 0" A.F.F.
6. Mlazgar Associates assumes no responsibility for installed light levels due to field conditions, etc.

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
OVERALL	Illuminance	Fc	0.30	4.2	0.0	N.A.	N.A.
PROPERTY LINE	Illuminance	Fc	0.20	1.1	0.0	N.A.	N.A.
PARKING	Illuminance	Fc	1.69	4.2	0.9	1.88	4.67

Luminaire Schedule								
Symbol	Qty	Label	Manufacturer	Description	Arrangement	Lum. Lumens	Lum. Watts	LLF
	3	OA		PRV-P-PA1A-740-U-T4W	Single	4348	30.7	0.900
	5	SP1		PRV-PA1B-740-U-T4W-HSS	Single	7053	74	0.900
	5	SP2		ARB-B2-LED-D1-T4	Single	4691	48	0.900

MLAZGAR ASSOCIATES
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(f) 952-943-8088
www.mlazgar.com

MLAZGAR ASSOCIATES

#	Date	Comments

Revisions

RLMA Project #: 178706
Drawn By: BS
Date: 10/6/2025

Scale: 1" = 10'

PHOTOMETRIC

MAYFAIR APARTMENTS

LABEL- OA

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Prevail Petite Discrete Wall

Wall Mount Luminaire

Product Features

BAA FADC

Interactive Menu

- Ordering Information page 2
- Mounting Details page 3
- Product Specifications page 3
- Energy and Performance Data page 4
- Control Options page 5

Product Certifications

ISTM CERTIFIED, UL CERTIFIED, DLC LISTED [1], DLC LISTED PREMIUM [1], FC CLASS A CAN ICES-005, RoHS COMPLIANT, IP66, IDA DARK SKY APPROVED [2], 5 YEAR LIMITED WARRANTY

Quick Facts

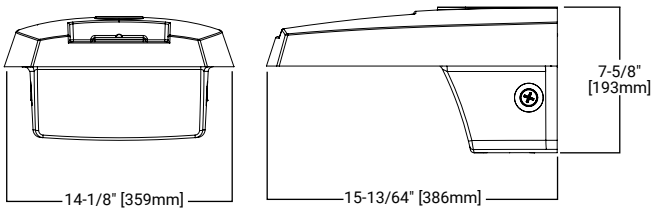
- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 11,300 lumens (30W - 90W)
- Replaces 70W up to 250W HID equivalents
- Efficacies up to 147 lumens per watt
- Surface mount configuration with standard conduit entry

Connected Systems

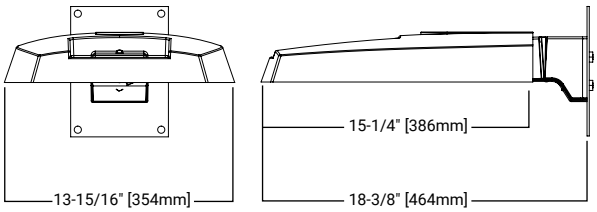
- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Dimensional Details

Surface Mount (SM)



Wall Mount (WM)



NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

LABEL- OA

SAMPLE NUMBER: **PRV-P-PA1B-740-U-T4W-SM-BZ**

Product Family [1]	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish
	Configuration	Drive Current [2]					
PRV-P=Prevail Petite **BAA-PRV-P**=Prevail Petite BAA Compliant [22] **TAA-PRV-P**=Prevail Petite TAA Compliant [22]	**PA1**=1 Panel, 24 LED Rectangle	**A**=400mA Nominal **B**=700mA Nominal **C**=950mA Nominal **D**=1200mA Nominal	**740**=70CRI, 4000K **730**=70CRI, 3000K **750**=70CRI, 5000K	**U**= Universal, 120-277V **H**= High Voltage, 347-480V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [3, 23] **9**=347V **DV**=Duravolt, 277-480V	**T2R**=Type II Roadway **T2U**=Type II Urban **T3**=Type III **T4W**=Type IV Wide **5WQ**=Type V Square Wide	**SM**=Surface Wall Mount **WM**=Wall Mount Arm	**BZ**=Bronze **AP**=Grey **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)

10K=10kV UL 1449 Fused Surge Protective Device
20MSP=20kV MOV Surge Protective Device
20K=20kV UL 1449 Fused Surge Protective Device
2L=Two-Circuit Light Engine [19]
F=Single Fuse (Used with Voltages 120, 277 or 347V)
FF=Double Fuse (Used with Voltages 208, 240 or 480V)
EBP=Emergency Battery Pack (Ambient Temp, 0° to 40°C) [4, 5]
CBP=Cold Weather Emergency Battery Pack (Ambient Temp, -20° to 40°C) [4, 5]
CBP-CEC=Cold Weather Emergency Battery Pack, CEC Compliant (Ambient Temp, -20° to 40°C) [4, 5]
HSS=House Side Shield (Factory Installed) [6]
HA=50°C High Ambient Temperature [7]
CC=Coastal Construction [8]
BPC=Button Photocontrol [9]
PR=NEMA 3-PIN Twistlock Photocontrol Receptacle [9, 10]
PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle [9, 10]
FADC=Field Adjustable Dimming Controller [24]
MS/DIM-L08=Dimming Motion and Daylight Sensor, IR Remote Programmable, < 8' Mounting [9, 11, 12]
MS/DIM-L20=Dimming Motion and Daylight Sensor, IR Remote Programmable, 8' - 20' Mounting [9, 11, 12]
MS/DIM-L40W=Dimming Motion and Daylight Sensor, IR Remote Programmable, 21' - 40' Mounting [9, 11, 12]
SPB1=Dimming Motion and Daylight Sensor, Bluetooth Programmable, < 8' Mounting [9, 11, 13]
SPB2=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 8' - 20' Mounting [9, 11, 13]
SPB4=Dimming Motion and Daylight Sensor, Bluetooth Programmable, 21' - 40' Mounting [9, 11, 13]
WPS2XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [9, 11, 14, 15, 16]
WPS4XX=WaveLinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [9, 11, 14, 15, 16]
WLS2XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [9, 11, 14, 15, 16]
WLS4XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [9, 11, 14, 15, 16]

Accessories (Order Separately) [17, 18]

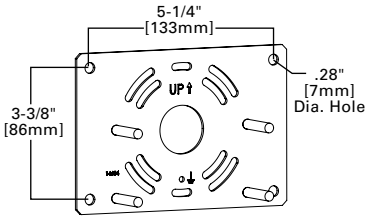
HSS-HP=House Side Shield, Horizontal Panel [7]
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=NEMA Photocontrol - 120V
OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1027=NEMA Photocontrol - 480V
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [20]
WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) [21]

NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables.
3. 480V not to be used with ungrounded or impedance grounded systems.
4. Only available on Surface Wall Mount (SM) mounting.
5. Must use with Univeral (U) voltage only. Not available with other voltage options. Not available with PA1D light engine.
6. House Side Shield not for use with 5WQ distribution.
7. Not available with EBP, CBP, or CBP-CEC options. Not available with PA1D light engine.
8. Salt spray tested to over 5,000-hours per ASTM B117 with a scribe rating of 9 per ASTM D1654. Also achieves 7,000-hour rating per ASTM B117 with a scribe rating of 4 per ASTM D1654. Extended lead times may apply.
9. Option is not available with other controls: photocontrols (BPC), photocontrol receptacles (PR or PR7), or controls systems (MS).
10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used.
11. Option not available with High Voltage (H). Must specify Universal (U), 347V (9), or 480V (8) voltage.
12. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately.
13. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details.
14. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
15. In order for the device to be field-configurable, requires WAC Gateway components WAC-PoE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more Wavelinx application information.
16. Replace XX with sensor color (WH, BZ or BK).
17. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
18. Replace XX with paint color.
19. Controls and/or emergency battery packs operate only one of the two circuits when 2L is specified.
20. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
21. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS). Only for use at 120-347V.
22. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
23. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information.
24. Cannot be used with PR7 or other motion response control options.

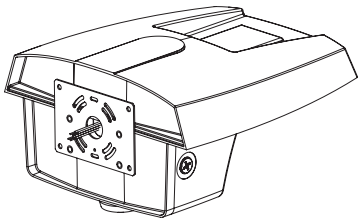
Mounting Details

LABEL- OA

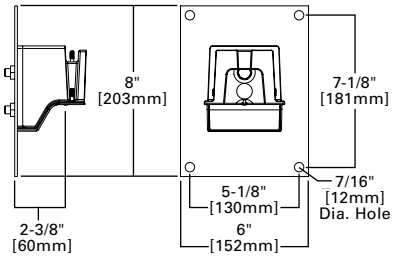
Surface Mount Plate (SM)



Surface Mount Assembly (SM)



Wall Mount (WM)



Product Specifications

Construction

- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door
- Surface Mount (SM) offers two 1/2" NPT conduit entry plugs
- Not suitable for inverted mount installation

Optics

- Dark Sky Approved (3000K CCT and warmer only)
- Precision molded polycarbonate optics

Electrical

- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels. Comes pre-set to the highest position at the lumen output selected.

Typical Applications

Outdoor, Pedestrian Pathways, Building Entrances, Loading Docks, Perimeter Parking Lots

Finish

Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness

Shipping Data

Prevail Petite (with CBP): 21 lbs. (9.53 kgs.)

Warranty

Five year limited warranty, consult website for details. www.cooperlighting.com/legal

LABEL- OA

Energy and Performance Data

Power and Lumens

Light Engine		PA1A	PA1B	PA1C	PA1D
Power (Watts)		31	53	72	93
Drive Current (mA)		375	670	930	1200
Input Current @ 120V (A)		0.26	0.44	0.60	0.78
Input Current @ 277V (A)		0.12	0.20	0.28	0.35
Input Current @ 347V (A)		0.10	0.17	0.23	0.29
Input Current @ 480V (A)		0.07	0.13	0.17	0.22
Distribution					
Type II Roadway	4000K/5000K Lumens	4,505	7,362	9,495	11,300
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	147	139	132	121
	3000K Lumens [1]	4,103	6,705	8,647	10,291
Type II Roadway w/ HSS	4000K/5000K Lumens	3,727	6,091	7,855	9,349
	BUG Rating	B0-U0-G1	B0-U0-G2	B0-U0-G2	B1-U0-G2
	Lumens per Watt	121	115	109	100
	3000K Lumens [1]	3,394	5,547	7,154	8,514
Type II Urban	4000K/5000K Lumens	4,496	7,347	9,476	11,277
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3
	Lumens per Watt	146	139	131	121
	3000K Lumens [1]	4,095	6,691	8,630	10,271
Type II Urban w/ HSS	4000K/5000K Lumens	3,253	5,316	6,856	8,160
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2
	Lumens per Watt	106	101	95	87
	3000K Lumens [1]	2,963	4,841	6,244	7,431
Type III	4000K/5000K Lumens	4,443	7,261	9,364	11,145
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2
	Lumens per Watt	145	138	130	119
	3000K Lumens [1]	4,046	6,612	8,528	10,150
Type III w/ HSS	4000K/5000K Lumens	3,406	5,566	7,179	8,543
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	111	105	100	91
	3000K Lumens [1]	3,102	5,069	6,538	7,781
Type IV Wide	4000K/5000K Lumens	4,348	7,106	9,164	10,906
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3
	Lumens per Watt	142	135	127	117
	3000K Lumens [1]	3,960	6,471	8,346	9,932
Type IV Wide w/ HSS	4000K/5000K Lumens	3,318	5,422	6,993	8,323
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2
	Lumens per Watt	108	103	97	89
	3000K Lumens [1]	3,022	4,938	6,369	7,580
Type V Square Wide	4000K/5000K Lumens	4,497	7,349	9,478	11,280
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2
	Lumens per Watt	146	139	131	121
	3000K Lumens [1]	4,095	6,693	8,632	10,273

NOTES:
1. For 3000K or HSS BUG Ratings, refer to published IES files.

Power and Lumens: Emergency Configurations

Light Engine		PA1A	PA1B	PA1C
Power (Watts) [1]		37	59	78
Input Current @ 120V (A)		0.33	0.52	0.68
Input Current @ 277V (A)		0.16	0.24	0.31
Distribution [2]				
Type II Roadway	4000K/5000K Lumens	2,035		
	3000K Lumens	1,853		
Type II Urban	4000K/5000K Lumens	2,030		
	3000K Lumens	1,849		
Type III	4000K/5000K Lumens	2,007		
	3000K Lumens	1,827		
Type IV Wide	4000K/5000K Lumens	1,964		
	3000K Lumens	1,788		
Type V Square Wide	4000K/5000K Lumens	2,031		
	3000K Lumens	1,849		

NOTES:
1. Power and current based on full power consumption while EBP or CBP is charging.
2. Estimated lumen outputs while luminaire is operating in emergency mode only at full charge.

Lumen Maintenance

Configuration	TM-21 Lumen Maintenance (50,000 Hours)	Theoretical L70 (Hours)
Up to 50°C	96.76%	> 663,000

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings

FADC Position	Lumen Multiplier
1	25%
2	46%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Control Options

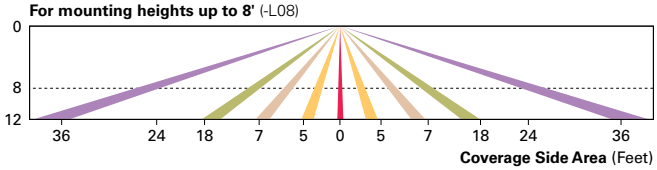
LABEL- OA

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

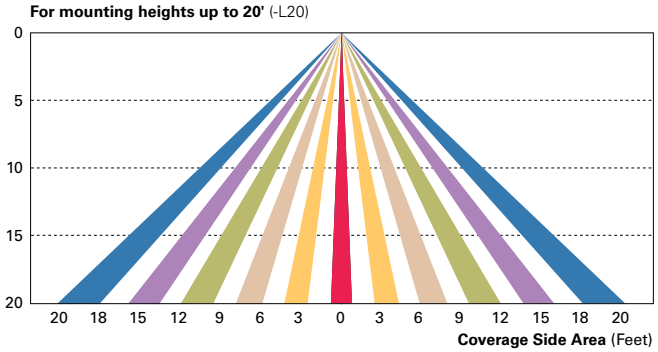
Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacle.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. When a sensor for ON/OFF operation (MS-LXX) is selected, the luminaire will turn off after five minutes of no activity. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.

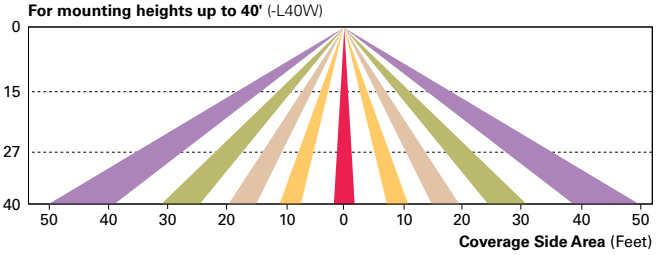
For mounting heights up to 8' (-L08)



For mounting heights up to 20' (-L20)



For mounting heights up to 40' (-L40W)

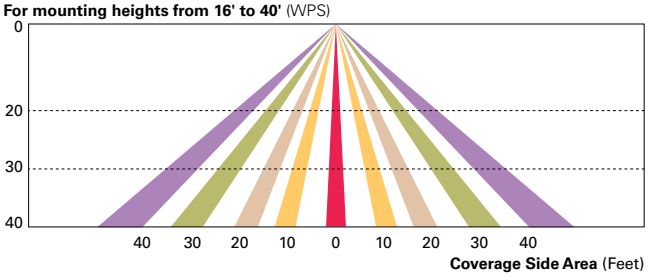


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights from 16' to 40' (WPS)



Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

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Specifications and dimensions subject to change without notice.

LABEL- SP1

Project		Catalog #		Type	
Prepared by		Notes		Date	



Lumark

Prevail Discrete LED

Area / Site Luminaire

Product Features

Interactive Menu

- Ordering Information page 2
- Mounting Details page 3, 4
- Optical Configurations page 5
- Product Specifications page 5
- Energy and Performance Data page 6
- Control Options page 8

Product Certifications

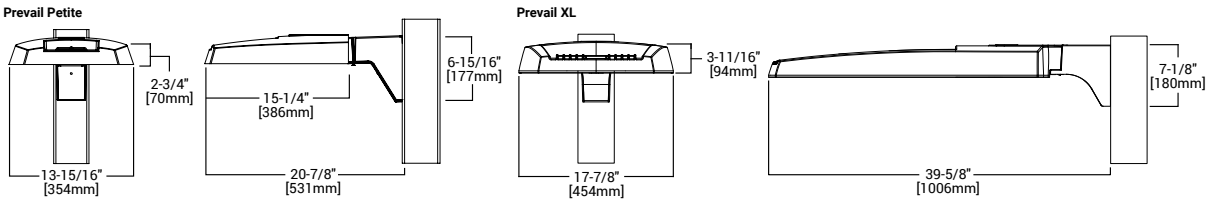
Quick Facts

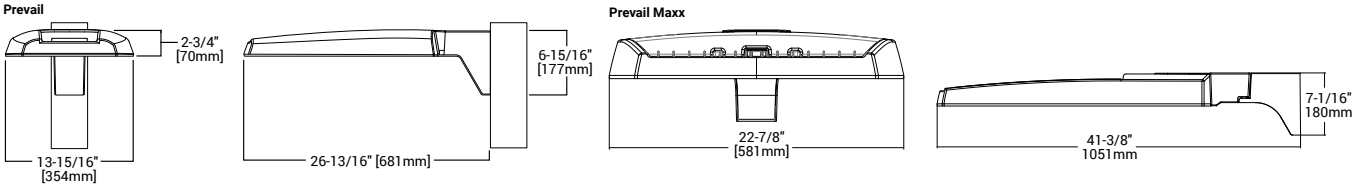
- Direct-mounted discrete light engine for improved optical uniformity and visual comfort
- Lumen packages range from 4,300 - 68,000 nominal lumens (30W - 550W)
- Replaces 70W up to 1,000W HID equivalents
- Efficacies up to 157 lumens per watt
- Standard universal quick mount arm with universal drill pattern

Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Dimensional Details





NOTES:
1. Visit https://www.designlights.org/search/ to confirm qualification. Not all product variations are DLC qualified.
2. IDA Certified for 3000K CCT and warmer only.

Ordering Information

LABEL- SP1

SAMPLE NUMBER: **PRV-XL-PA4B-740-U-T4W-BZ**

Product Family [1, 2]	Light Engine		Color Temperature	Voltage	Distribution	Mounting (Included)	Finish
	Configuration	Drive Current [4]					
PRV-P=Prevail Petite **BAA-PRV-P**=Prevail Petite BAA Buy American Act Compliant [3] **TAA-PRV-P**=Prevail Petite TAA Trade Agreements Act Compliant [3] **BABA-PRV-P**=Prevail Petite BABA Build America Buy America Act Compliant [31]	**PA1**=1 Panel, 24 LED Rectangle	**A**=400mA Nominal **B**=700mA Nominal **C**=950mA Nominal **D**=1200mA Nominal	**740**=70CRI, 4000K **730**=70CRI, 3000K **750**=70CRI, 5000K **8540**=85CRI, 4000K	**U**=Universal, 120-277V **H**=High Voltage, 347-480V **1**=120V **2**=208V **3**=240V **4**=277V **8**=480V [5] **9**=347V **DV**=DuraVolt, 277-480V [5, 6]	**T2R**=Type II Roadway **T2U**=Type II Urban **T3**=Type III **T4W**=Type IV Wide **5WQ**=Type V Square Wide	**SA**=QM Standard Versatile Arm **MA**=QM Mast Arm **FMA**=Fixed Mast Arm [26] **WM**=QM Wall Mount Arm **ADJA-WM**= Adjustable Arm – Wall Mount [28] **ADJA**=Adjustable Arm – Pole Mount [28] **ADJS**=Adjustable Arm – Slipfitter, 3" vertical tenon [28] **SP2**=Adjustable Arm – Slipfitter, 2 3/8" vertical tenon [26, 28]	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White
PRV=Prevail **BAA-PRV**=Prevail BAA Buy American Act Compliant [3] **TAA-PRV**=Prevail TAA Trade Agreements Act Compliant [3] **BABA-PRV**=Prevail BABA Build America Buy America Act Compliant [31]	**PA1**=1 Panel, 24 LED Rectangle **PA2**=2 Panels, 48 LED Rectangles	**A**=700mA Nominal **B**=950mA Nominal					
PRV-XL=PRV XL **BAA-PRV-XL**=Prevail XL BAA Buy American Act Compliant [3] **TAA-PRV-XL**=Prevail XL TAA Trade Agreements Act Compliant [3] **BABA-PRV-XL**=Prevail XL BABA Build America Buy America Act Compliant [31]	**PA3**=3 Panels, 72 LED Rectangles **PA4**=4 Panels, 96 LED Rectangles	**A**=750mA Nominal **B**=950mA Nominal					
PRV-M=Prevail Maxx **BAA-PRV-M**=Prevail Maxx BAA Buy American Act Compliant [3] **TAA-PRV-M**=Prevail Maxx TAA Trade Agreements Act Compliant [3] **BABA-PRV-M**=Prevail Maxx BABA Build America Buy America Act Compliant [30]	**PA6**= 6 Panels, 144 LED Rectangles	**A**=600mA Nominal **B**=800mA Nominal **C**=1000mA Nominal **D**=1200mA Nominal					

Options (Add as Suffix)

10K=10kV UL 1449 Fused Surge Protective Device
20MSP=20kV MOV Surge Protective Device
20K=20kV UL 1449 Fused Surge Protective Device
F=Single Fuse (Used with Voltages 120, 277 or 347V)
FF=Double Fuse (Used with Voltages 208, 240 or 480V)
FADC=Field Adjustable Dimming Controller [29]
L90=Optics Rotated 90° Left
R90=Optics Rotated 90° Right
CC=Coastal Construction finish [9]
HSS=House Side Shield (Factory Installed) [7]
HA=50°C High Ambient Temperature [8]
PR=NEMA 3-PIN Twistlock Photocontrol Receptacle [10]
PR7=NEMA 7-PIN Twistlock Photocontrol Receptacle [10]
MS/DIM-L08=Motion Sensor for Dimming Operation, Up to 8' Mounting Height [11, 12, 13]
MS/DIM-L20=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [11, 12, 13]
MS/DIM-L40=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [11, 12, 13]
SPB1=Motion Sensor for Dimming Operation, BLE Interface, Up to 8' Mounting Height [11, 14]
SPB2=Motion Sensor for Dimming Operation, BLE Interface, 8' - 20' Mounting Height [11, 14, 26, 27]
SPB4=Motion Sensor for Dimming Operation, BLE Interface, 21' - 40' Mounting Height [11, 14, 27]
WPS2XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting Height [11, 12, 15, 16]
WPS4XX=Wavelinx Pro, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting Height [11, 12, 15, 16]
WLS2XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting [11, 12, 15, 16]
WLS4XX=WaveLinx Lite, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting [11, 12, 15, 16]

Accessories (Order Separately) [20, 21]

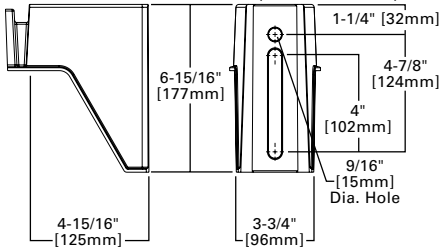
PRVSA-XX=Standard Arm Mounting Kit [21]
PRVMA-XX=Mast Arm Mounting Kit [21]
PRVWM-XX=Wall Mount Kit [21]
PRV-ADJA-XX=Adjustable Arm - Pole Mount Kit [21]
PRV-ADJS-XX=Adjustable Arm - Slipfitter Kit [21]
PRV-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit [21]
PRVXLSA-XX=Standard Arm Mounting Kit [27]
PRVXLMA-XX=Mast Arm Mounting Kit [27]
PRVXLWM-XX=Wall Mount Kit [27]
PRV-XL-ADJA-XX=Adjustable Arm - Pole Mount Kit [27]
PRV-XL-ADJA-WM-XX= Adjustable Arm - Wall Mount Kit [27]
PRV-XL-ADJS-XX= Adjustable Arm - Slipfitter Kit [27]
PRV-M-ADJA-XX=Adjustable Arm - Pole Mount Kit [26]
PRV-M-ADJS-XX=Adjustable Arm - Slipfitter Kit [26]
PRV-M-ADJA-WM-XX=Adjustable Arm - Wall Mount Kit [26]
MA1010-XX=Single Tenon Adapter for 3-1/2" O.D. Tenon
MA1011-XX=2@180°Tenon Adapter for 3-1/2" O.D. Tenon
MA1017-XX=Single Tenon Adapter for 2-3/8" O.D. Tenon
MA1018-XX=2@180° Tenon Adapter for 2-3/8" O.D. Tenon
SRA238=Tenon Adapter from 3" to 2-3/8"
PRV/DIS-FDV=Full Drop Visor [22]
PRVXL/DIS-FDV=Full Drop Visor [17]
HSS-VP=House Side Shield Kit, Vertical Panel [7, 23]
HSS-HP=House Side Shield Kit, Horizontal Panel [7, 23]
VGS-ARCH= Panel Drop Shield, Short
VGL-ARCH= Panel Drop Shield, Long
OA/RA1013=Photocontrol Shorting Cap
OA/RA1014=NEMA Photocontrol - 120V
OA/RA1016=NEMA Photocontrol - Multi-Tap 105-285V
OA/RA1201=NEMA Photocontrol - 347V
OA/RA1027=NEMA Photocontrol - 480V
FSIR-100=Wireless Configuration Tool for Occupancy Sensor [24]
WOLC-7P-10A=WaveLinx Outdoor Control Module (7-PIN) [25]

NOTES:
1. DesignLights Consortium® Qualified. Refer to www.designlights.org Qualified Products List under Family Models for details.
2. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications. Refer to installation instructions and pole white paper WP513001EN for additional support information.
3. Only product configurations with these designated prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or Trade Agreements Act of 1979 (TAA), respectively. Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
4. Nominal drive currents shown here. For actual drive current by configuration, refer to Power and Lumens tables.
5. 480V not to be used with ungrounded or impedance grounded systems.
6. DuraVolt drivers feature added protection from power quality issues such as loss of neutral, transients and voltage fluctuations. Visit www.signify.com/duravolt for more information.
7. House Side Shield not for use with 5WQ distribution.
8. Not available with PA1D light engine in Petite housing (PRV-P).
9. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
10. If High Voltage (H) or DuraVolt (DV) is specified, use a photocontrol that matches the input voltage used.
11. Controls system is not available in combination with a photocontrol receptacle (PR or PR7) or another controls system (MS SPB).
12. Option not available with High Voltage (H) or DuraVolt (DV). Must specify Universal (U), 347V (9), or 480V (8) voltage.
13. Utilizes the Wattstopper sensor FSP-211. Sensor color white unless specified otherwise via PDR. To field-configure, order FSIR-100 accessory separately.
14. Utilizes the Wattstopper sensor FSP-3XX series. Sensor color determined by product finish. See Sensor Color Reference Table. Field-configures via mobile application. See Controls section for details.
15. Sensor passive infrared (PIR) may be overly sensitive when operating below -20°C (-4°F).
16. Replace XX with sensor color (WH, BZ or BK).
17. Only available in PRV-XL configurations.
18. Not available with High Voltage (H, DV, 8 or 9) or HA options.
19. Replace XX with paint color.
20. For BAA or TAA requirements, Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
21. Not for use with PRV-XL or PRV-M configurations.
22. Only for use with PRV. Not applicable to PRV-M, PRV-XL, or PRV-P.
23. Must order one per optic/LED when ordering as a field-installable accessory (1, 2, 3, 4, or 6). Refer to House Side Shield reference table for details.
24. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
25. Requires 7-PIN NEMA twistlock photocontrol receptacle (PR7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Only for use at 120-347V.
26.Only available for PRV-M configurations.
27. Only for use with PRV-XL.
28. Fixed for PRV-M
29. Cannot be used with PR7 or other motion response control options.
30. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

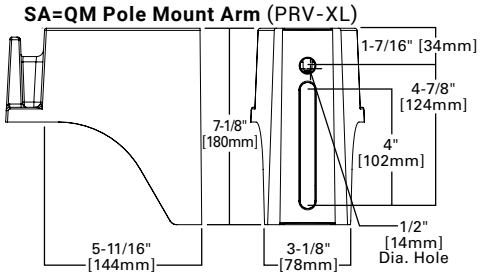
LABEL- SP1

Mounting Details

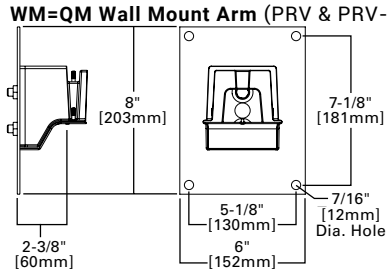
SA=QM Pole Mount Arm (PRV & PRV-P)



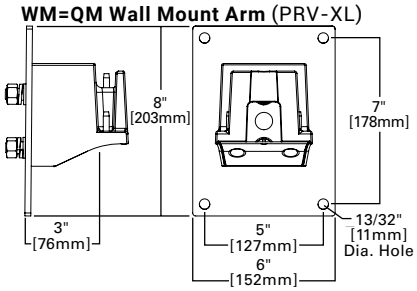
SA=QM Pole Mount Arm (PRV-XL)



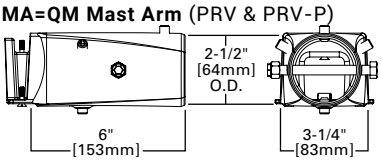
WM=QM Wall Mount Arm (PRV & PRV-P)



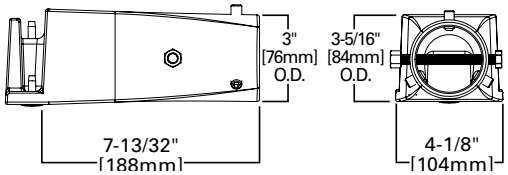
WM=QM Wall Mount Arm (PRV-XL)



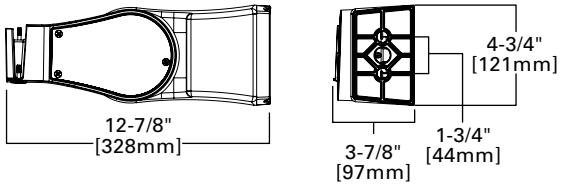
MA=QM Mast Arm (PRV & PRV-P)



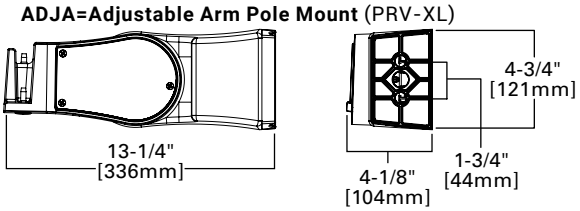
MA=QM Mast Arm (PRV-XL)



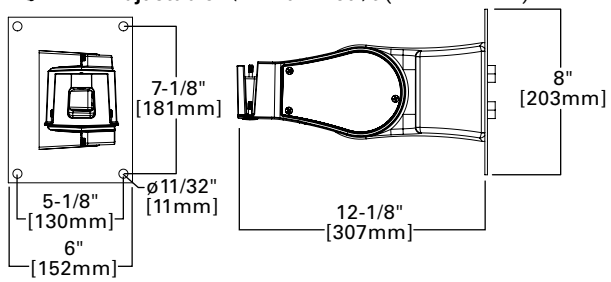
ADJA=Adjustable Arm Pole Mount (PRV & PRV-P)



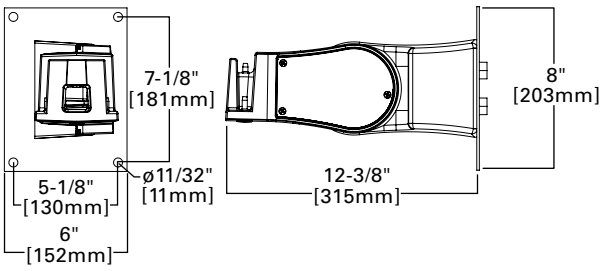
ADJA=Adjustable Arm Pole Mount (PRV-XL)



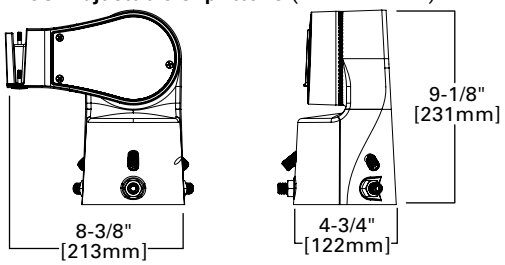
ADJA-WM=Adjustable Arm Wall Mount (PRV & PRV-P)



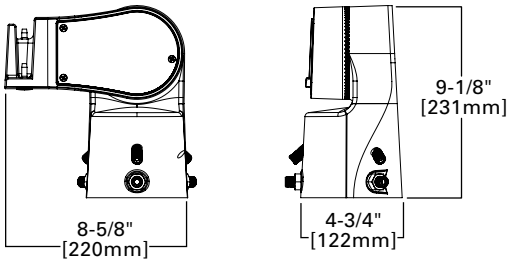
ADJA-WM=Adjustable Arm Wall Mount (PRV-XL)



ADJS=Adjustable Slipfitter 3 (PRV & PRV-P)



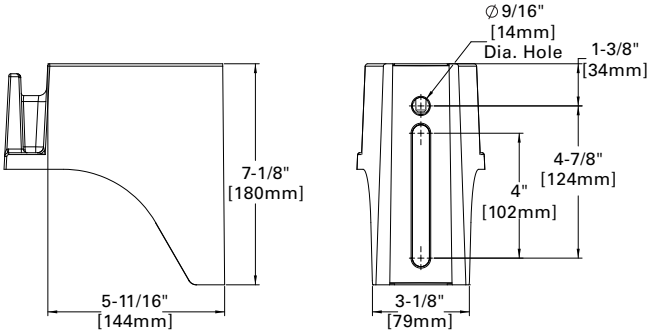
ADJS=Adjustable Slipfitter 3 (PRV-XL)



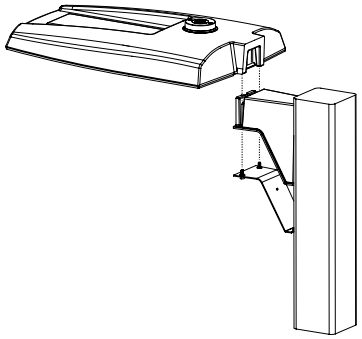
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Mounting Details

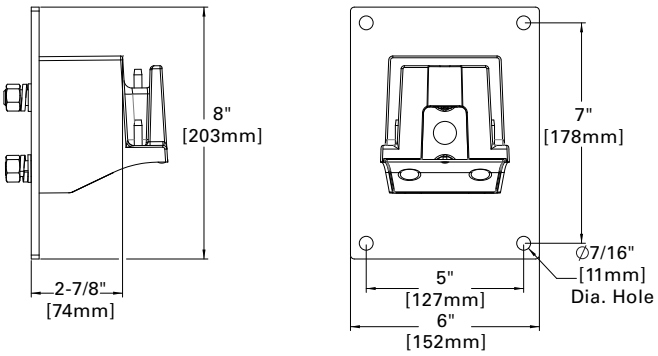
SA=QM Pole Mount Arm (PRV-M)



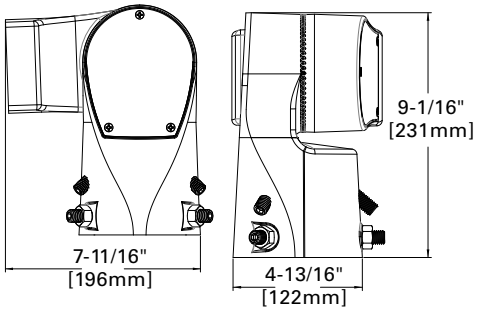
Versatile Mount System



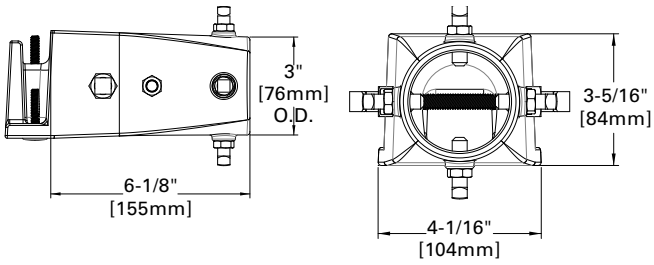
WM=QM Wall Mount Arm (PRV-M)



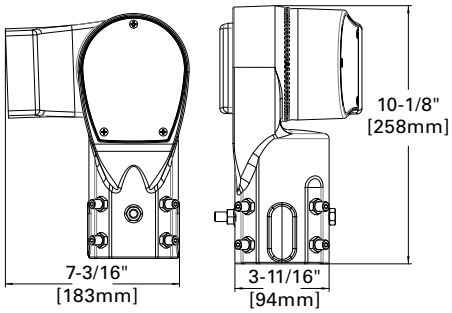
ADJS=Adjustable Slipfitter (PRV-M)



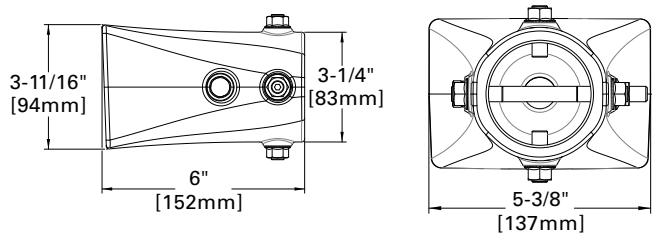
MA=QM Mast Arm (PRV-M)



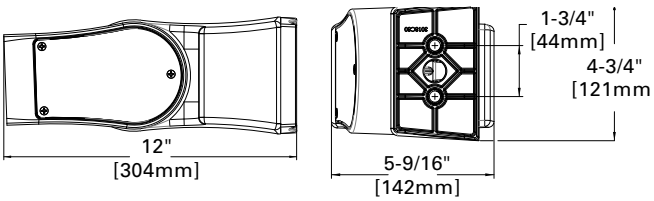
SP2=Adjustable Slipfitter 2-3/8" (PRV-M)



FMA=Fixed Mast Arm (PRV-M)



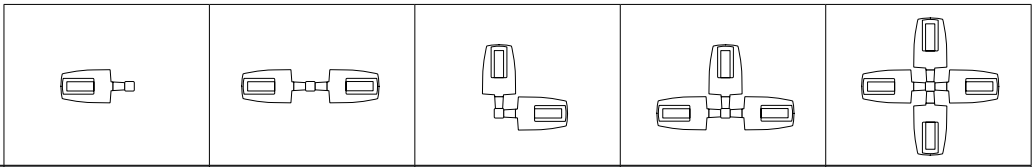
ADJA=Adjustable Pole Mount Arm (PRV-M)



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Mounting Details

Mounting Configurations and EPAs

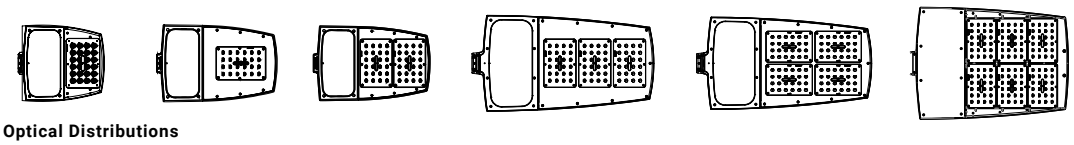


Housing Size	Tilt Angle (Degrees)	Arm Mount Single	Arm Mount 2 @ 180°	Arm Mount 2 @ 90°	Arm Mount 3 @ 90°	Arm Mount 4 @ 90°
Prevail Petite	0°	0.54	1.08	0.84	1.38	1.38
	60°	1.68	1.85	2.42	3.15	3.30
Prevail	0°	0.92	1.35	1.42	1.63	1.63
	60°	2.20	2.40	3.05	3.88	4.07
	60° + Full Drop Visor	2.20	2.40	3.25	4.28	4.47
Prevail XL	0°	1.12	2.25	2.13	2.52	2.52
	60°	3.99	4.30	5.26	6.51	6.79
	60° + Full Drop Visor	3.99	4.30	5.59	7.17	7.49
Prevail Maxx	0°	1.28	2.56	1.7	2.69	2.69
	60°	5.09	5.52	6.34	7.49	7.81

NOTE: For 2 PRV's mounted at 90°, requires minimum 3" square or 4" round pole for fixture clearance. For 2 PRV-XL's mounted at 90°, requires minimum 4" square or round pole for fixture clearance. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for applications

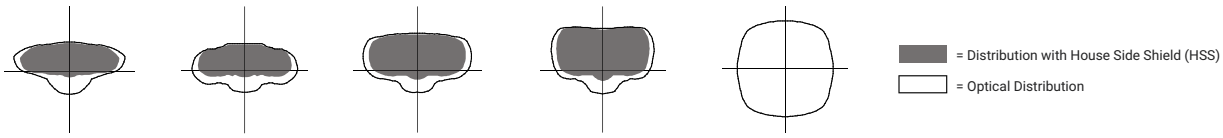
Optical Configurations

PRV-P-PA1X **PRV-PA1X** **PRV-PA2X** **PRV-XL-PA3X** **PRV-XL-PA4X** **PRV-M-PA6X**



Optical Distributions

T2R (Type II Roadway) **T2U** (Type II Urban) **T3** (Type III) **T4W** (Type IV Wide) **5WQ** (Type V Square Wide)



Product Specifications

Optics
- Precision molded polycarbonate optics

Electrical
- -40°C minimum operating temperature
- 40°C maximum operating temperature
- >.9 power factor
- <20% total harmonic distortion
- Class 1 electronic drivers have expected life of 100,000 hours with <1% failure rate
- 0-10V dimming driver is standard with leads external to the fixture
- Standard MOV surge protective device designed to withstand 10kV of transient line surge

Physical Characteristics
- Single-piece die-cast aluminum housing
- Tethered die-cast aluminum door
- Five-stage super TGIC polyester powder coat paint, 2.5 mil nominal thickness
- Finish is compliant to 3,000 hour salt spray standard (per ASTM B117)
- Versatile, patented, standard mount arm accommodates multiple drill patterns ranging from 1-1/2" to 4-7/8" (Type M drilling recommended for new installations)
- A knock-out on the standard mounting arm enables round pole mounting
- Adjustable pole and wall mount arms adjust in 5° increments from 0° to 60°; Downward facing orientation only (Type N drilling required for ADJA mount)
- Adjustable slipfitter arm adjusts in 5° increments from -5° to 85°; Downward facing orientation only

Controls
- Luminaire available with the field adjustable dimming controller (FADC) to manually adjust wattage and reduce the total lumen output and light levels; Comes pre-set to the highest position at the lumen output selected

Compliance
- DarkSky approved for 3000K CCT and warmer, with mounting options less than 10° of tilt.
- DLC and DLC Premium listed – visit designlights.org to confirm listed variations
- Prevail and Prevail Petite: 3G vibration rated (all arms)
- Prevail XL Mast Arm: 3G vibration rated
- Prevail XL Standard Arm: 1.5G vibration rated
- Adjustable Arms: 1.5G vibration rated
- BAA domestic preference option meets BAA requirements. See DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

Typical Applications
- Parking lots
- Walkways
- Roadways
- Building Areas

Shipping Data
- Prevail Petite: 18 lbs. (7.94 kgs.)
- Prevail: 20 lbs. (9.09 kgs.)
- Prevail XL: 45 lbs. (20.41 kgs.)
- Prevail Maxx: 49 lbs. (22.23 kgs.)

Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

LABEL- SP1

Energy and Performance Data

Power and Lumens

View PRV-P IES files | View PRV IES files | View PRV-XL IES files

Product Family		Prevail Petite				Prevail				Prevail XL				Prevail Maxx			
Light Engine		PA1A	PA1B	PA1C	PA1D	PA1A	PA1B	PA2A	PA2B	PA3A	PA3B	PA4A	PA4B	PA6A	PA6B	PA6C	PA6D
Power (Watts)		31	53	72	93	54	74	113	151	172	234	245	303	274	366	457	544
Drive Current (mA)		375	670	930	1200	670	930	720	970	750	980	785	970	600	800	1000	1200
Input Current @ 120V (A)		0.26	0.44	0.60	0.78	0.45	0.62	0.93	1.26	1.44	1.95	2.04	2.53	2.30	3.05	3.83	4.54
Input Current @ 277V (A)		0.12	0.20	0.28	0.35	0.21	0.28	0.41	0.55	0.62	0.85	0.93	1.12	0.99	1.30	1.62	1.94
Input Current @ 347V (A)		0.10	0.17	0.23	0.29	0.17	0.23	0.33	0.45	0.52	0.70	0.74	0.90	0.78	1.05	1.32	1.60
Input Current @ 480V (A)		0.07	0.13	0.17	0.22	0.12	0.17	0.24	0.33	0.39	0.52	0.53	0.65	0.58	0.76	0.95	1.14
Distribution																	
Type II Roadway	4000K/5000K Lumens	4,505	7,362	9,495	11,300	7,605	9,896	15,811	19,745	24,718	30,648	34,067	39,689	41,611	52,596	61,921	67,899
	BUG Rating	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G4	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	147	139	132	121	141	134	141	131	144	131	139	131	152	144	135	125
	3000K Lumens [1]	4,103	6,705	8,647	10,291	6,926	9,012	14,399	17,982	22,511	27,912	31,025	36,145	37,896	47,900	56,392	61,837
Type II Roadway w/ HSS	4000K/5000K Lumens	3,727	6,091	7,855	9,349	6,006	7,815	12,487	15,594	19,521	24,204	26,094	31,334	32,874	41,553	48,919	53,642
	BUG Rating	B0-U0-G1	B0-U0-G2	B0-U0-G2	B1-U0-G2	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G4	B1-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5
	Lumens per Watt	121	115	109	100	111	106	111	103	113	103	107	103	120	114	107	99
	3000K Lumens [1]	3,394	5,547	7,154	8,514	5,470	7,117	11,372	14,201	17,778	22,043	24,502	28,545	29,939	37,843	44,552	48,853
Type II Urban	4000K/5000K Lumens	4,496	7,347	9,476	11,277	7,597	9,886	15,795	19,724	24,692	30,616	34,031	39,647	41,372	52,294	61,565	67,509
	BUG Rating	B1-U0-G1	B2-U0-G2	B2-U0-G2	B3-U0-G3	B2-U0-G2	B3-U0-G3	B3-U0-G3	B3-U0-G3	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B4-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	139	131	121	141	134	141	131	144	131	139	131	151	143	135	124
	3000K Lumens [1]	4,095	6,691	8,630	10,271	6,919	9,003	14,384	17,963	22,488	27,882	30,992	36,107	37,678	47,625	56,068	61,481
Type II Urban w/ HSS	4000K/5000K Lumens	3,253	5,316	6,856	8,160	5,297	6,893	11,013	13,753	17,217	21,347	23,728	27,644	28,951	36,594	43,082	47,241
	BUG Rating	B1-U0-G1	B1-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G1	B1-U0-G2	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5
	Lumens per Watt	106	101	95	87	98	93	97	91	100	91	97	91	106	100	94	87
	3000K Lumens [1]	2,963	4,841	6,244	7,431	4,824	6,277	10,029	12,525	15,680	19,441	21,609	25,176	26,366	33,327	39,235	43,023
Type III	4000K/5000K Lumens	4,443	7,261	9,364	11,145	7,575	9,857	15,749	19,667	24,621	30,527	33,932	39,532	41,155	52,020	61,242	67,155
	BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G2	B2-U0-G2	B1-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	145	138	130	119	140	133	141	130	143	130	138	130	150	142	134	123
	3000K Lumens [1]	4,046	6,612	8,528	10,150	6,899	8,977	14,343	17,911	22,423	27,802	30,903	36,002	37,480	47,375	55,774	61,159
Type III w/ HSS	4000K/5000K Lumens	3,406	5,566	7,179	8,543	5,592	7,277	11,626	14,519	18,176	22,536	25,049	29,183	30,159	38,121	44,879	49,212
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B2-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	111	105	100	91	104	98	103	96	106	96	102	96	110	104	98	90
	3000K Lumens [1]	3,102	5,069	6,538	7,781	5,093	6,627	10,588	13,222	16,553	20,524	22,813	26,578	27466	34717	40872	44818
Type IV Wide	4000K/5000K Lumens	4,348	7,106	9,164	10,906	7,484	9,738	15,560	19,431	24,325	30,161	33,525	39,057	41,207	52,086	61,320	67,240
	BUG Rating	B1-U0-G2	B2-U0-G2	B2-U0-G2	B2-U0-G3	B2-U0-G2	B2-U0-G3	B3-U0-G3	B3-U0-G4	B3-U0-G4	B3-U0-G5	B3-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5	B4-U0-G5
	Lumens per Watt	142	135	127	117	139	132	139	129	141	129	137	129	151	142	134	124
	3000K Lumens [1]	3,960	6,471	8,346	9,932	6,816	8,869	14,170	17,696	22,153	27,468	30,531	35,570	37,528	47,435	55,845	61,236
Type IV Wide w/ HSS	4000K/5000K Lumens	3,318	5,422	6,993	8,323	5,420	7,053	11,268	14,072	17,617	24,843	24,279	28,286	30,005	37,926	44,650	48,961
	BUG Rating	B0-U0-G1	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G2	B1-U0-G3	B1-U0-G3	B1-U0-G4	B2-U0-G4	B2-U0-G4	B2-U0-G5	B2-U0-G5	B3-U0-G5	B3-U0-G5	B3-U0-G5
	Lumens per Watt	108	103	97	89	100	95	100	93	102	106	99	93	110	104	98	90
	3000K Lumens [1]	3,022	4,938	6,369	7,580	4,936	6,423	10,262	12,816	16,044	19,892	22,111	25,760	27,326	34,540	40,664	44,589
Type V Square Wide	4000K/5000K Lumens	4,497	7,349	9,478	11,280	7,831	10,190	16,281	20,332	25,453	31,559	35,079	40,868	42,947	54,285	63,909	70,079
	BUG Rating	B3-U0-G1	B3-U0-G2	B4-U0-G2	B4-U0-G2	B3-U0-G2	B4-U0-G3	B4-U0-G3	B5-U0-G3	B5-U0-G4	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5	B5-U0-G5
	Lumens per Watt	146	139	131	121	145	138	145	135	148	135	143	135	157	143	136	129
	3000K Lumens [1]	4,095	6,693	8,632	10,273	7,132	9,280	14,827	18,517	23,180	28,741	31,947	37,219	39,112	49,438	58,203	63,822

NOTES:

1. For 3000K or HSS BUG Ratings, refer to published IES files

Energy and Performance Data

LABEL- SP1

House Side Shield Reference Table

Product Family		Prevail	Prevail		Prevail XL		Prevail Maxx
Light Engine		PA1	PA1	PA2	PA3	PA4	PA6
Rotated Optics	Standard	HSS-HP (Qty 1)	HSS-VP (Qty 1)	HSS-HP (Qty 2)	HSS-HP (Qty 3)	HSS-VP (Qty 4)	HSS-HP (qty 6)
	L90 or R90 option	HSS-VP (Qty 1)	HSS-HP (Qty 1)	HSS-VP (Qty 2)	HSS-VP (Qty 3)	HSS-HP (Qty 4)	HSS-VP (qty 6)

Sensor Color Reference Table (SPBx)

Housing Finish	Sensor Color
AP=Grey	Grey
BZ=Bronze	Bronze
BK=Black	Black
DP=Dark Platinum	Grey
GM=Graphite Metallic	Black
WH=White	White

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

FADC Settings

FADC Postion	Percent of Typical Lumen Output
1	25%
2	48%
3	55%
4	62%
5	72%
6	77%
7	82%
8	85%
9	90%
10	100%

Note: +/-5% typical value

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (78,000 Hours)	Theoretical L70 (Hours)
Up to 50°C	96.76%	> 896,000

Control Options

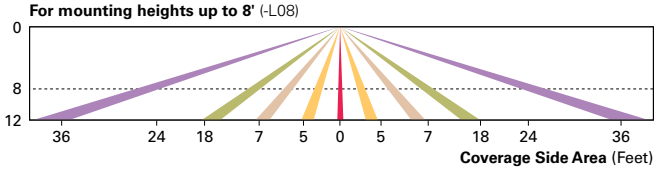
LABEL- SP1

0-10V This fixture provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

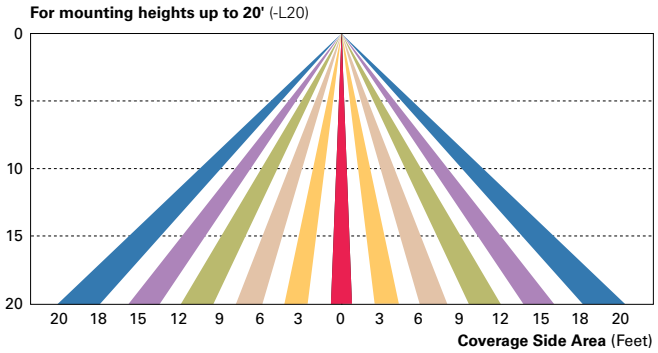
Photocontrol (PR and PR7) Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-PIN standards can be utilized with the PR7 receptacle.

Dimming Occupancy Sensor (SPB, MS/DIM-LXX) These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the luminaire will dim down after five minutes of no activity detected. When activity is detected, the luminaire returns to full light output. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or "daylight harvesting." Factory default is enabled for the MS sensors and disabled for the SPB. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes.

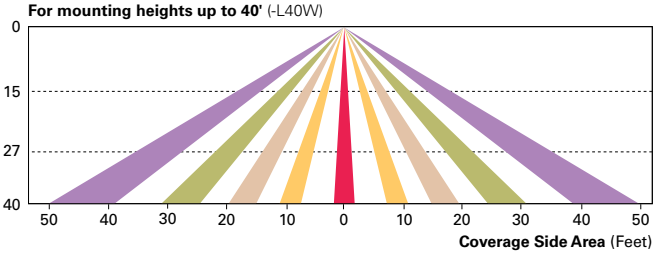
For mounting heights up to 8' (-L08)



For mounting heights up to 20' (-L20)



For mounting heights up to 40' (-L40W)

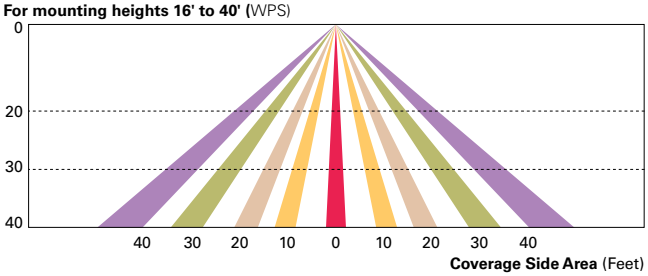


WaveLinx Wireless Control and Monitoring System Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

WaveLinx Outdoor Control Module (WOLC-7P-10A) A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx PRO Wireless Sensor (WPS2 and WPS4) These outdoor sensors offer passive infrared (PIR) occupancy sensing and a photocell for closed-loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected, and the photocell for "dusk-to-dawn" control is default enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights 16' to 40' (WPS)



Cooper Lighting Solutions
1121 Highway 74 South
Peachtree City, GA 30269
P: 770-486-4800
www.cooperlighting.com

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Specifications and dimensions
subject to change without notice.

LABEL- SP2

Project		Catalog #		Type	
Prepared by		Notes		Date	



Invue

ARB Arbor Post Top

Decorative Luminaire

Product Features

BAA · BABA · WaveLinx Digital Lighting Control Solutions

Interactive Menu

- Order Information page 2
- Product Specifications page 3
- Optical Distributions page 5
- Control Options page 7

Product Certifications

ISO Certified · IP66 · DarkSky Approved · UL Certified · 3G VIB · 1.5G VIB

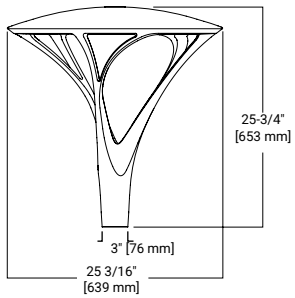
Quick Facts

- Low copper content two piece aluminum housing
- Type II, III and IV asymmetric and type V symmetric NEMA distributions
- Up to 110 LPW
- 4000K @ 70 CRI standard, other options are available
- 3G vibration rated (post top) and 1.5G (single/twin pole accessories)
- Wall mount accessories available

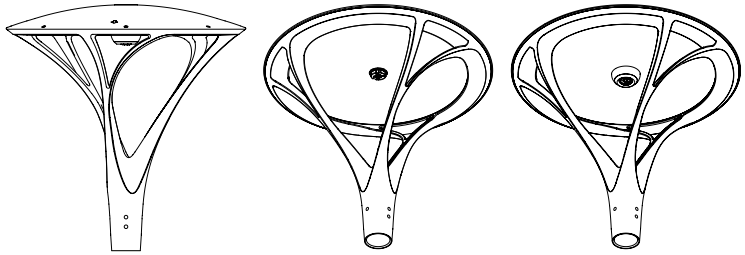
Connected Systems

- WaveLinx PRO Wireless
- WaveLinx LITE Wireless

Dimensional and Mounting Details



Pole Mount



Pole Mount with WaveLinx

Weight: 37 lbs. [16.8 kgs.]
EPA: 0.9 Sq. Ft.

Ordering Information

LABEL- SP2

SAMPLE NUMBER: **ARB-B2-LED-D1-T2-GM**

Product Family [1, 2]	Lumens [3]	Lamp Type	Voltage	Distribution	Color [7]
ARB=Arbor Post Top **BAA-ARB**=Arbor Post Top Buy American Act Compliant [23] **BABA-ARB**=Build America Buy America Act [29]	**B1**=Nominal 2,300 Lumens **B2**=Nominal 4,500 Lumens **B3**=Nominal 8,500 Lumens **B4**=Nominal 9,500 Lumens [4]	**LED**=Solid State Light Emitting Diodes	**D1**=Dimming Driver (120-277V) **347**=347V [5] **480**=480V [5, 6]	**T2**=Type II **T3**=Type III **T4**=Type IV **T5**=Type V	**AP**=Grey **BZ**=Bronze **BK**=Black **DP**=Dark Platinum **GM**=Graphite Metallic **WH**=White

Options (Add as Suffix)	Accessories (Order Separately) [8]
7030=70 CRI / 3000K CCT [8] **7035**=70 CRI / 3500K CCT [8] **8030**=80 CRI / 3000K CCT [8] **8035**=80 CRI / 3500K CCT [8] **AMB**=Amber 590nm [11, 25] **20MSP**=Parallel 20kV MOV Surge Protection Device **20K**=Series 20kV UL 1449 Surge Protection Device **PC**=Button Type Photocontrol **PER**=NEMA 3-PIN Twistlock Photocontrol Receptacle **PER7**=NEMA 7-PIN Twistlock Photocontrol Receptacle **HA**=50°C High Ambient Temperature [9] **SPB1**=Dimming Occupancy Sensor with Bluetooth Interface, <8' Mounting [21] **SPB2**=Dimming Occupancy Sensor with Bluetooth Interface, 8'-20' Mounting [21] **SPB4**=Dimming Occupancy Sensor with Bluetooth Interface, 21'-40' Mounting [21] **MS-L08**=Motion Sensor for ON/OFF Operation, Maximum 8' Mounting Height [10, 11] **MS-L20**=Motion Sensor for ON/OFF Operation, 9' - 20' Mounting Height [10, 11] **MS-L40W**=Motion Sensor for ON/OFF Operation, 21' - 40' Mounting Height [10, 11] **MS/DIM-L08**=Motion Sensor for Dimming Operation, Maximum 8' Mounting Height [10, 11] **MS/DIM-L20**=Motion Sensor for Dimming Operation, 9' - 20' Mounting Height [10, 11] **MS/DIM-L40W**=Motion Sensor for Dimming Operation, 21' - 40' Mounting Height [10, 11] **WLS2XX=**WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 7' - 15' Mounting **WLS4XX=**WaveLinx LITE, SR Driver, Dimming Motion and Daylight, Bluetooth Programmable, 15' - 40' Mounting **WPS2XX=**WaveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 7' - 15' Mounting [10, 12, 13, 18, 27] **WPS4XX=W**aveLinx PRO, SR Driver, Dimming Motion and Daylight, WAC Programmable, 15' - 40' Mounting [10, 12, 13, 18, 27] **5LTD**=Fifth Light Dali Driver [10, 16] **DIM**=0-10V External Dimming Leads [10, 17] **VS**=Tempered Glass Vandal Shield **CC**=Coastal Construction [22] **SPBL2**=FDP-301-L2 (Wattstopper DALI sensor) **SPBL4**=FDP-301-L7 (Wattstopper DALI sensor) **TH**=Toolless hardware **F**=Single Fuse [26]	**ARSA-XX**=Single Pole Mount Arm [18] **ARWM-XX**=Wall Mount Arm **ARTA15-XX**=Twin Mount Bracket [19] **ARPA4-XX**=Pole Adapter 4" O.D. Pole **FSIR-100**=Wireless Configuration Tool for Occupancy Sensor [19] **WOLC-7P-10A**=Wavelinx Outdoor Control Module (7-PIN) [10, 20]

NOTES:

1. Customer is responsible for engineering analysis to confirm pole and fixture compatibility for all applications. Refer to our white paper WP513001EN for additional information.
2. Fixture slipfits over standard 2-3/8" tenon. 3" O.D. tenon when used with a ARPA4-XX 4" O.D. pole adapter.
3. Standard 4000K CCT, nominal 70CRI.
4. B4 only available with Type V distribution.
5. Requires the use of a step down transformer.
6. Only for use with 480V Wye systems. Per NEC, not for use with ungrounded systems, impedance grounded systems or corner grounded systems (commonly known as Three Phase Three Wire Delta, Three Phase High Leg Delta and Three Phase Corner Grounded Delta systems).
7. Custom and RAL color matching available upon request. Consult your lighting representative for more information.
8. Extended lead times apply. Use dedicated IES files when performing layouts.
9. Not available with B3 lumen package in Type II, III, or IV distributions.
10. Controls system is not available with photocontrol (PC), photocontrol receptacle (PER or PER7), or controls systems MS, LWR, DIM or SPBx.
11. Not available with HA option.
12. Sensor passive infrared (PIR) may be overly sensitive below -20°C (-4°F).
13. For device to be field-configurable, requires WAC Gateway components WAC-POE and WPOE-120 in appropriate quantities. Only compatible with WaveLinx system and software and requires system components to be installed for operation. See website for more WaveLinx application information.
14. Not available on B1 or B4 lumen packages.
15. Not available in B4 lumen package.
16. Low voltage control leads brought 18" outside fixture.
17. Replace XX with paint color.
18. Fits on 3" O.D. x 4" long tenon for nominal 4-1/2" O.D. pole top.
19. This tool enables adjustment to Motion Sensor (MS) parameters including high and low modes, sensitivity, time delay, cutoff and more. Consult your lighting representative for more information.
20. Requires 7-PIN NEMA twistlock photocontrol receptacle (PER7) option. The WOLC-7 cannot be used in conjunction with other controls systems (MS or LWR). Operates on 120-347V input voltages.
21. Smart device with mobile application required to change system defaults. See controls section for details.
22. Coastal construction finish salt spray tested to over 5,000-hours per ASTM B117, with a scribe rating of 9 per ASTM D1654.
23. Only product configurations with this designated prefix are built to be compliant with the Buy American Act of 1933 (BAA). Please refer to DOMESTIC PREFERENCES website for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
24. Accessories sold separately will be separately analyzed under domestic preference requirements. Consult factory for further information.
25. Narrow-band 590nm +/- 5nm for wildlife and observatory use. Choose Lumen Package B1. See IES files for photometric performance.
26. Must specify voltage (120V, 277V, or 347V) to fuse the single hot leg.
27. Not available with 5LTD option.
28. IDA Certified for 3000K CCT and warmer only
29. Only product configurations with these prefixes are built to be compliant with the Buy American Act of 1933 (BAA) or the Build America Buy America Act (BABA). BABA is the minimum Government compliance requirement for the Build America Buy America standards which is part of the Infrastructure and Investment Jobs Act (IIJA). Individual Government Agencies may have more stringent compliance standards. Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.

ARP ORDERING INFORMATION (ALUMINUM DECORATIVE POLE)

LABEL- SP2

SAMPLE NUMBER: **ARP5L310ABZ2**

Product Family	Shaft Size (Inches) [1]	Wall Thickness (Inches)	Pole Top Diameter (Inches)	Mounting Height (Feet)	Base Type	Finish	Mounting Type	Number and Location of Arms	Options (Add as Suffix)
ARP= Aluminum Round Tapered Decorative **BAA-ARP=** Aluminum Round Tapered Decorative Buy American Act Compliant [36]	**5=** 5"	**L=** 0.156" **M=** 0.188"	**3=** 3" O.D. [2] **6=** 4" O.D. [3]	**10=** 10' **12=** 12' **14=** 14' **16=** 16' **18=** 18' [4] **22=** 22' [4]	**A=** Aluminum (Round 4-Bolt Pole)	**AP=** Grey **BA=** Anodized Bronze **BK=** Black **BZ=** Bronze **CA=** Anodized Clear **DA=** Anodized Black **DP=** Dark Platinum **GM=** Graphite Metallic **GN=** Hartford Green **WH=** White	**2=** 2-3/8" O.D. Tenon (4" Long) **5=** 3" O.D. Tenon (4" Long)	**X=** None	**C=** Convenience Outlet [5] **E=** GFCI Convenience Outlet [5] **G=** Ground Lug **V=** Vibration Dampener [4]

NOTES:
1. All shaft sizes nominal.
2. Provides 3" O.D. pole top suited for Arbor Post Top.
3. Provides 4" O.D. pole top suited for LuxeScape post tops.
4. Vibration damper recommended over 18 feet add suffix "V" to catalog number.
5. Specify outlet location. Receptacle not included, provision only.

Product Specifications

Construction
- Two-piece housing is cast from low copper content corrosion resistant aluminum, maintaining strength and precision to sustain long term dayform appearance
- ANSI C136.31 testing compliance prevents damage from installation generated vibration
- External hardware and casting seams are minimized to enhance appearance

Optics
- Specifically designed for pedestrian applications, WaveStream LED optical waveguide technology produces both symmetric NEMA type V and asymmetric NEMA II, III, IV distributions
- The waveguide is manufactured from precision injection molded acrylic resulting in a pixelation free optical image for improved glare control and visual comfort
- Luminaire efficacy's measure up to 110 lumens per watt for 4000K (+/- 275K) CCT at 70 CRI (min), other CCT and CRI options are available
- Turtle-safe 590nm amber option available

Electrical
- LED driver(s) are directly mounted to upper housing thermal pad for optimal thermal performance
- 0-10V dimming compatibility is standard
- 10kV surge protection is standard
- Drivers operate at 120-277V 50/60Hz with 347V/60Hz or 480V/60Hz operation optional

Controls
- The Arbor LED luminaire control options are designed to be simple and cost-effective ASHRAE and California Title 24 compliant solutions
- The ANSI C136.41 compliant NEMA 7-PIN receptacle enables wireless dimming when used with compatible photocontrol
- See control options page for more details

Mounting
- Fixture is designed to slip-fit over a 2-3/8" tenon and is secured via six concealed stainless steel set screws
- Fixture seamlessly matches a 3" O.D. round pole top
- Utilize the pole mount adapter accessory "ARPA4-XX" to mount to a 3" diameter x 4" long tenon on 4" to 5" O.D. pole tops

Finish
- Premium TGIC based polyester powder coatings are specifically formulated to withstand years of outdoor service
- Finishes are compliant with ASTM B117 3000 hour salt spray standard
- RAL and custom colors are available. Additional charges and lead times apply

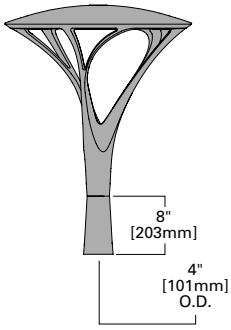
Compliance
- cULus certified for -40° to 40°C ambient environments, with high ambient options suitable up to 50°C
- IP66 rated
- Domestic preference option available to meet BAA requirements
- FHWA and FTA agencies are utilizing their BAA rules for BABA compliance. Cooper's products with a BAA designation are manufactured in the US and utilize a BAA COTS exemption rule for compliance. To verify a configured product with specific accessories and options meet BABA Domestic Preference Requirements; submit this catalog number to Cooper Lighting Quotation team for validation by our Engineering and Manufacturing teams
- Please refer to the DOMESTIC PREFERENCES website or consult the CLS Domestic Preferences team for more information. Components shipped separately may be separately analyzed under domestic preference requirements.
- DarkSky approved for 3000K CCT and warmer

Warranty
- Five year limited warranty, consult website for details. www.cooperlighting.com/legal

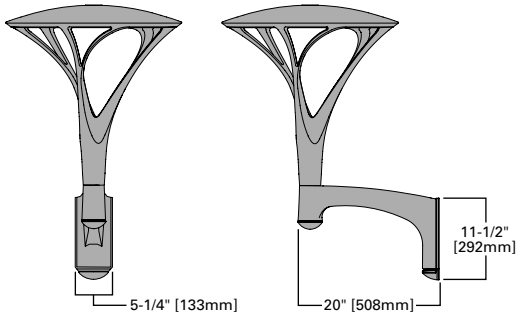
Mounting Configurations (Weight and EPAS includes fixture)

LABEL- SP2

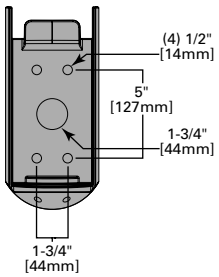
Post Top Adapter (ARPA4-XX)
Weight: 41 lbs. [18.63 Kgs.]
EPA: 1.2 Sq. Ft.



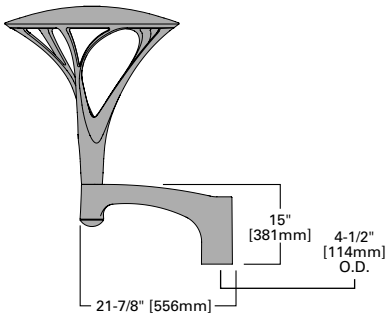
Wall Mount Arm (ARWM-XX)
Weight: 57 lbs. [25.91 Kgs.]
EPA: 1.8 Sq. Ft.



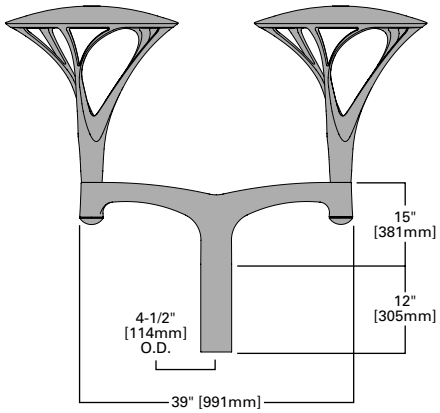
Wall Mount Arm Drill Pattern



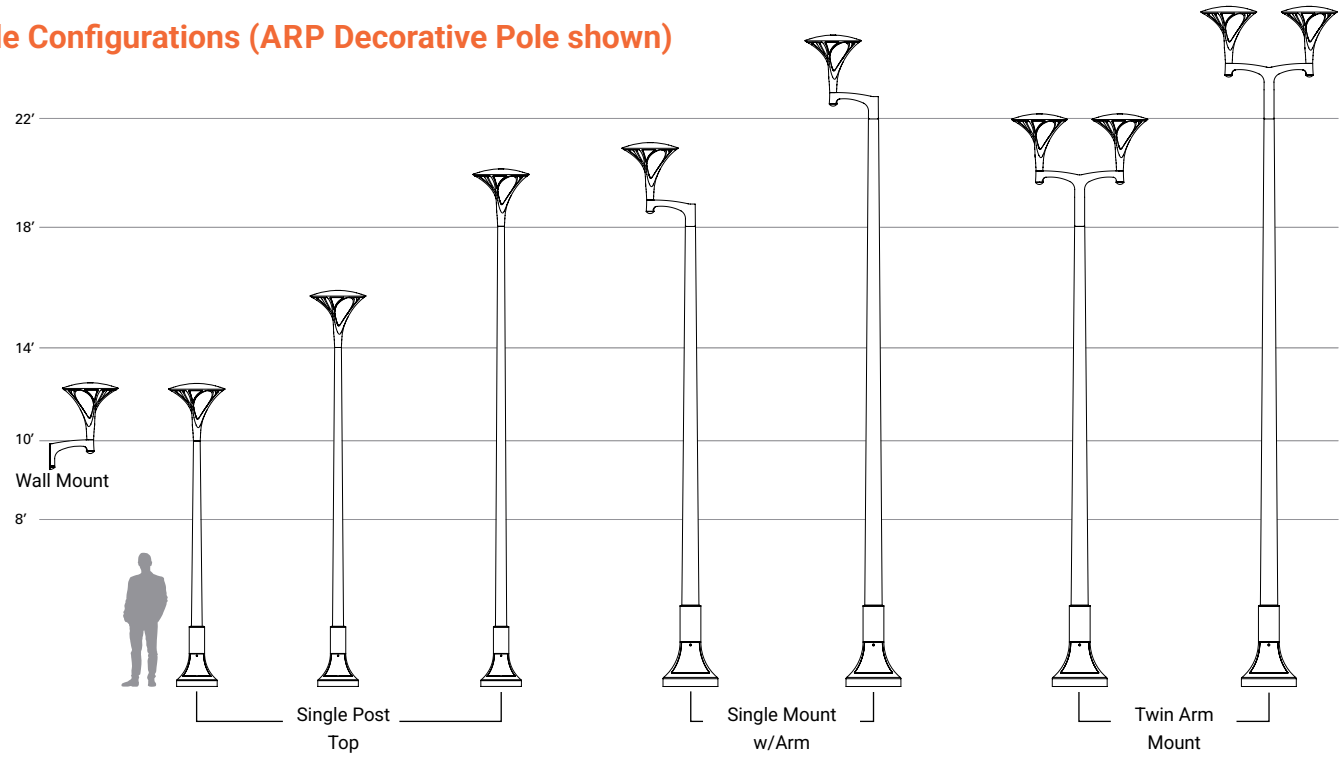
Single Arm Mount (ARSA-XX)
Weight: 56 Lbs. [25.45 Kgs.]
EPA: 1.7 Sq. Ft.



Twin Arm Mount (ARTA15-XX)
Weight: 114 lbs. [51.81 Kgs.]
EPA: 3.45 Sq. Ft.



Pole Configurations (ARP Decorative Pole shown)



Optical Distributions

LABEL- SP2

View IES files

Power and Lumens

Lumen/Distribution		B1	B2	B3	B4
Power Wattage (Watts)		24W	48W	96W	99W
Input Current (mA) @ 120V		200	400	800	830
Input Current (mA) @ 208V		120	240	470	480
Input Current (mA) @ 240V		100	200	400	420
Input Current (mA) @ 277V		90	180	350	360
Power Wattage (Watts)		26W	53W	107W	108W
Input Current (mA) @ 347V		79	161	325	328
Input Current (mA) @ 480V		58	117	235	237
Optics					
Type II	Lumens	2,045	3,994	7,362	-
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	-
Type III	Lumens	2,324	4,534	8,451	-
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	-
Type IV	Lumens	2,408	4,691	8,740	-
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	-
Type V	Lumens	2,311	4,529	8,511	9,464
	BUG Rating	B1-U0-G1	B1-U0-G2	B3-U0-G3	B3-U0-G3

Lumen Multiplier

Ambient Temperature	Lumen Multiplier
0°C	1.02
10°C	1.01
25°C	1.00
40°C	0.99
50°C	0.97

Lumen Maintenance

Ambient Temperature	TM-21 Lumen Maintenance (60,000 Hours)	Calculated L70 (HOURS)
25°C	>94%	>230,000
40°C	>88%	>172,000
50°C	>86%	>142,000

Note: Maintenance data applies to the highest drive current and represents the worst case at the highest wattage.

Color Temperature

Color Temperature (CCT)	CRI (Nominal)	Multiplier
4000	70	1.00
3000	80	0.91

Lumen Multiplier

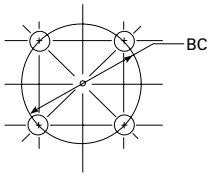
Lumen Package	Temperature
B1	-40°C
B2	-35°C
B3	-35°C
B4	-40°C
All DALI powered lumen packages	-20°C

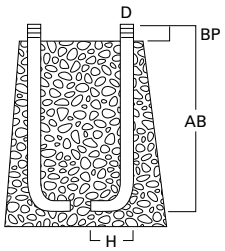
Power and Lumens

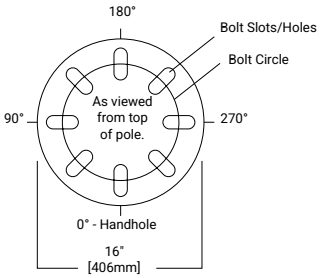
Lumen Package			B1	B2	B3	B4
CRI/CCT (Nominal)	**Distribution**					
7030: 70CRI / 3000K	Type II	Lumens	1893	3994	6815	-
		Lumens Per Watt	78.9	83.2	68.8	-
		BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	-
	Type III	Lumens	2324	4534	7823	-
		Lumens Per Watt	96.8	94.5	79.0	-
		BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	-
	Type IV	Lumens	2408	4691	8090	-
		Lumens Per Watt	100.3	97.7	81.7	-
		BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	-
	Type V	Lumens	2311	4529	7878	8761
		Lumens Per Watt	110.0	110.5	91.6	91.3
		BUG Rating	B2-U0-G1	B3-U0-G2	B3-U0-G3	B3-U0-G3
8030: 80CRI / 3000K	Type II	Lumens	1708	3336	6149	-
		Lumens Per Watt	71.2	69.5	62.1	-
		BUG Rating	B1-U0-G1	B2-U0-G2	B3-U0-G3	-
	Type III	Lumens	1941	3787	7058	-
		Lumens Per Watt	80.9	78.9	71.3	-
		BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	-
	Type IV	Lumens	2011	3918	7300	-
		Lumens Per Watt	83.8	81.6	73.7	-
		BUG Rating	B1-U0-G1	B1-U0-G2	B2-U0-G3	-
	Type V	Lumens	1930	3783	7108	7904
		Lumens Per Watt	91.9	92.3	82.7	82.3
		BUG Rating	B2-U0-G1	B2-U0-G2	B3-U0-G3	B3-U0-G3

LABEL- SP2

Anchorage Data

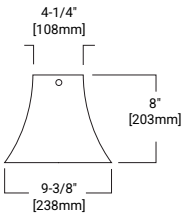






Anchor Base Detail

Access Door



Tenon O.D. (Inches)	Anchor Bolt and Template Package	Shaft Diameter (inches)	Bolt Circle (inches)	Number of Bolts	Bolt Size (inches)	Template Only
Aluminum Round Decorative Pole (ARP)	317AVE30	4 x 5	9	4	3/4 x 17	407040D

Effective Projected Area (At Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
MH			BC	BP	B	AB[1]		80 mph	90 mph	100 mph	
10	ARP5L310A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	57	20.0	17.5	14.1	120
10	ARP5L610A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	57	17.0	13.3	10.7	120
12	ARP5L312A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	62	18.2	14.1	11.2	120
12	ARP5L612A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	62	14.1	10.9	8.7	120
14	ARP5L314A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	67	14.8	11.4	9.0	120
14	ARP5L614A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	67	11.7	9.0	7.1	120
16	ARP5L316A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	72	12.0	9.1	7.0	120
16	ARP5L616A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	72	9.4	7.1	5.6	120
18	ARP5L318A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	77	9.5	7.1	5.4	120
18	ARP5L618A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	77	7.6	5.6	4.3	120
18	ARP5M618A	0.188	9.0	3.5	5 X 4	3/4 X 17 X 3	83	9.5	7.1	5.6	120

Effective Projected Area (18" Above Pole Top)

Mounting Height (Feet)	Catalog Number	Wall Thickness (Inches)	Bolt Circle Diameter (Inches)	Anchor Bolt Projection (Inches)	Shaft Taper (Inches)	Anchor Bolt Diameter x Length x Hook (Inches)	Net Weight (Pounds)	Maximum Effective Projected Area (Square Feet) (1.3 gust factor)			Max. Load (Pounds)
MH			BC	BP	B	AB[1]		80 mph	90 mph	100 mph	
10	ARP5L310A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	57	19.6	15.3	12.3	120
10	ARP5L610A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	57	17.0	13.3	10.7	120
12	ARP5L312A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	62	16.1	12.5	9.9	120
12	ARP5L612A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	62	14.1	10.9	8.7	120
14	ARP5L314A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	67	13.2	10.1	8.0	120
14	ARP5L614A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	67	11.7	9.0	7.1	120
16	ARP5L316A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	72	10.6	8.0	6.2	120
16	ARP5L616A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	72	9.4	7.1	5.6	120
18	ARP5L318A	0.156	9.0	3.5	5 X 3	3/4 X 17 X 3	77	8.5	6.4	4.8	120
18	ARP5L618A	0.156	9.0	3.5	5 X 4	3/4 X 17 X 3	77	7.6	5.6	4.3	120
18	ARP-5M618A	0.188	9.0	3.5	5 X 4	3/4 X 17 X 3	83	9.5	7.1	5.6	120

LABEL- SP2

Control Options

0-10V (D)

The dimming option provides 0-10V dimming wire leads for use with a lighting control panel or other control method.

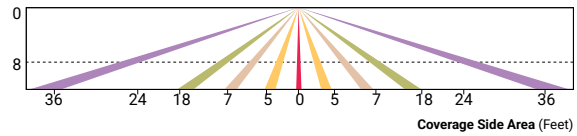
Photocontrol (PER and PER7)

Photocontrol receptacles provide a flexible solution to enable "dusk-to-dawn" lighting by sensing light levels. Advanced control systems compatible with NEMA 7-pin standards can be utilized with the PER7 receptacle.

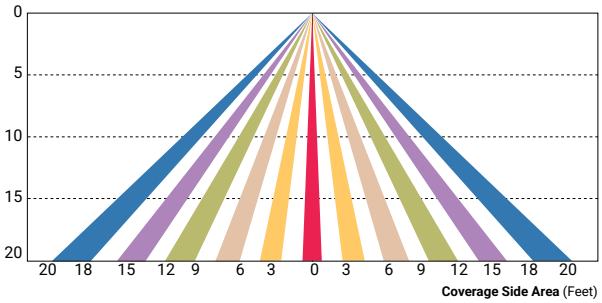
Dimming Occupancy Sensor (SPB, MS/DIM-LXX and MS-LXX)

These sensors are factory installed in the luminaire housing. When the SPB or MS/DIM sensor options are selected, the occupancy sensor is connected to a dimming driver and the entire luminaire dims when there is no activity detected. When activity is detected, the luminaire returns to full light output. The MS/DIM sensor is factory preset to dim down to approximately 50 percent power with a time delay of five minutes. The MS-LXX sensor is factory preset to turn the luminaire off after five minutes of no activity. SPB motion sensors require the Sensor Configuration mobile application by Wattstopper to change factory default dimming level, time delay, sensitivity and other parameters. Available for iOS and Android devices. The SPB sensor is factory preset to dim down to approximately 10% power with a time delay of five minutes. The MS/DIM occupancy sensors require the FSIR-100 programming tool to adjust factory defaults.

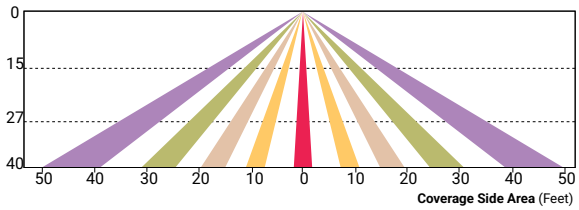
For mounting heights up to 8' (SPB1, -L08)



For mounting heights up to 20' (SPB2, -L20)



For mounting heights up to 40' (SPB4, -L40W)



WaveLinx Wireless Control and Monitoring System

Available in 7-PIN or 4-PIN configurations, the WaveLinx Outdoor control platform operates on a wireless mesh network based on IEEE 802.15.4 standards enabling wireless control of outdoor lighting. Use the WaveLinx Mobile application for set-up and configuration. At least one Wireless Area Controller (WAC) is required for full functionality and remote communication (including adjustment of any factory pre-sets).

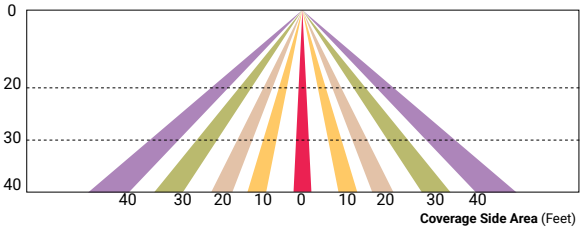
WaveLinx Outdoor Control Module (WOLC-7P-10A)

A photocontrol that enables astronomic or time-based schedules to provide ON, OFF and dimming control of fixtures utilizing a 7-PIN receptacle. The out-of-box functionality is ON at dusk and OFF at dawn.

WaveLinx Wireless Sensor (WPS2 and WPS4)

These outdoor sensors offer passive infrared (PIR) occupancy and a photocell for closed loop daylight sensing. These sensors are factory preset to dim down to approximately 50 percent power after 15 minutes of no activity detected. These occupancy sensors include an integral photocell for "dusk-to-dawn" control or daylight harvesting that is factory-enabled. A variety of sensor lenses are available to optimize the coverage pattern for mounting heights from 7'-40'.

For mounting heights up to 16' to 40' (WPS)



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Specifications and dimensions
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