



COMMERCIAL  
4 TENANT SPACES

56 SURFACE SPACES

APARTMENTS  
170 UNITS



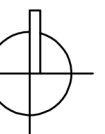
**JLA**  
ARCHITECTS

# OCHALLA MIXED USE

## RENDERED SITE PLAN

1"=60'

18 JANUARY, 2022



# OCHALLA DRIVE MIXED USE DEVELOPMENT

CITY OF FITCHBURG  
DANE COUNTY, WISCONSIN

AGENCIES:

EMERGENCY – FIRE, RESCUE, AMBULANCE, POLICE  
DIAL 911

UNITED STATES POSTAL OFFICE  
3000 CAHILL MAIN  
FITCHBURG, WI 53711  
608-273-3565

FITCHBURG POLICE DEPARTMENT  
5520 LACY ROAD  
FITCHBURG, WI 53711  
608-270-4300 (NON EMERGENCY)

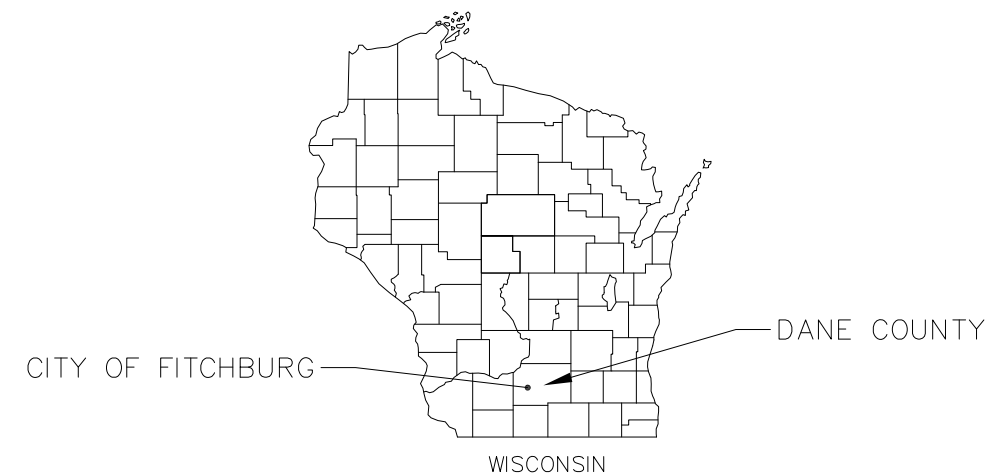
FITCHBURG FIRE DEPARTMENT  
5791 LACY ROAD  
FITCHBURG, WI 53711  
608-278-2980 (NON EMERGENCY)

ENGINEER – VIERBICHER ASSOCIATES INC.  
ATTN: JOHNATHAN LILLEY  
999 FOURIER DRIVE, SUITE 201  
MADISON, WI 53717  
OFFICE: 608-826-0530


CITY OF FITCHBURG – PUBLIC WORKS  
BILL BALKE – DIRECTOR OF PUBLIC WORKS/CITY ENGINEER  
5520 LACY ROAD  
FITCHBURG, WI 53711  
608-270-4264




PROJECT LOCATION



SITE BENCHMARKS

 BENCHMARK #1  
HYDRANT TOP NUT  
ELEV=915.85

 BENCHMARK #2  
HYDRANT TOP NUT  
ELEV=912.58



THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY AND HAVE NOT BEEN INDEPENDENTLY VERIFIED BY THE OWNER OR ITS REPRESENTATIVE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL EXISTING UTILITIES WHETHER SHOWN ON THESE PLANS OR NOT, BEFORE COMMENCING WORK, AND SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE CAUSED BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES.

CALL DIGGER'S HOTLINE  
1-800-242-8511

SHEET NO.	DESCRIPTION
C0	TITLE SHEET
C1	NOTES & LEGENDS
C2	EXISTING CONDITIONS PLAN
C3	DEMOLITION PLAN
C4	SITE PLAN
C5	GRADING & EROSION CONTROL PLAN
C6	UTILITY PLAN
C7-C7.5	CONSTRUCTION DETAILS
L1	LANDSCAPE PLAN
L2	LANDSCAPE DETAILS

TITLE SHEET  
OCHALLA MIXED USE DEVELOPMENT  
CITY OF FITCHBURG  
DANE COUNTY, WISCONSIN

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

DATE  
1-18-2022  
DRAFTER  
CLAN  
CHECKED  
TSCH  
PROJECT NO.  
200124

**NOT FOR CONSTRUCTION**

C0

TOPOGRAPHIC SYMBOL LEGEND

- EXISTING SIGN
EXISTING CURB INLET
EXISTING FIELD INLET
EXISTING STORM MANHOLE
EXISTING SANITARY MANHOLE
EXISTING FIRE HYDRANT
EXISTING WATER MAIN VALVE
EXISTING GAS VALVE
EXISTING DOWN GUY
EXISTING LIGHT POLE
EXISTING UTILITY POLE
EXISTING TELEPHONE MANHOLE
EXISTING CONIFEROUS TREE
EXISTING DECIDUOUS TREE

TOPOGRAPHIC LINework LEGEND

- EXISTING UNDERGROUND CABLE TV
EXISTING UNDERGROUND FIBER OPTIC LINE
EXISTING UNDERGROUND TELEPHONE
EXISTING RETAINING WALL
EXISTING GUARD RAIL
EXISTING GAS LINE
EXISTING UNDERGROUND ELECTRIC LINE
EXISTING OVERHEAD ELECTRIC LINE
EXISTING OVERHEAD UTILITY LINES
EXISTING SANITARY SEWER LINE (SIZE NOTED)
EXISTING STORM SEWER LINE (SIZE NOTED)
EXISTING WATER MAIN (SIZE NOTED)
EXISTING EDGE OF TREES
EXISTING MAJOR CONTOUR
EXISTING MINOR CONTOUR

DEMOLITION PLAN LEGEND

- CURB AND GUTTER REMOVAL
ASPHALT REMOVAL
CONCRETE REMOVAL
BUILDING REMOVAL
TREE REMOVAL
SAWCUT
UTILITY STRUCTURE REMOVAL
UTILITY LINE REMOVAL

SITE PLAN LEGEND

- PROPERTY BOUNDARY
CURB AND GUTTER (REVERSE CURB HATCHED)
PROPOSED CHAIN LINK FENCE
PROPOSED WOOD FENCE
PROPOSED CONCRETE
PROPOSED LIGHT-DUTY ASPHALT
PROPOSED HEAVY-DUTY ASPHALT
PROPOSED SIGN
PROPOSED LIGHT POLE
PROPOSED BOLLARD
PROPOSED ADA DETECTABLE WARNING FIELD
PROPOSED HANDICAP PARKING

PROPOSED UTILITY LEGEND

- STORM SEWER PIPE
STORM SEWER MANHOLE
STORM SEWER ENDWALL
STORM SEWER CURB INLET
STORM SEWER CURB INLET W/MANHOLE
STORM SEWER FIELD INLET
ROOF DRAIN CLEANOUT
SANITARY SEWER PIPE (GRAVITY)
SANITARY SEWER PIPE (FORCE MAIN)
SANITARY SEWER LATERAL PIPE
SANITARY SEWER MANHOLE
SANITARY SEWER CLEANOUT
WATER MAIN
WATER SERVICE LATERAL PIPE
FIRE HYDRANT
WATER VALVE
CURB STOP
WATER VALVE MANHOLE
PROPOSED PIPE INSULATION

GRADING LEGEND

- EXISTING MAJOR CONTOURS
EXISTING MINOR CONTOURS
PROPOSED MAJOR CONTOURS
PROPOSED MINOR CONTOURS
DITCH CENTERLINE
SILT FENCE
DISTURBED LIMITS
BERM
DRAINAGE DIRECTION
PROPOSED SLOPE ARROWS
EXISTING SPOT ELEVATIONS
PROPOSED SPOT ELEVATIONS
STONE WEEPER
VELOCITY CHECK
INLET PROTECTION
CHANNEL MAT CLASS I TYPE B
EROSION MAT CLASS II TYPE B
TRACKING PAD
RIP RAP

ABBREVIATIONS

- TC - TOP OF CURB
FF - FINISHED FLOOR
FL - FLOW LINE
SW - TOP OF WALK
TW - TOP OF WALL
BW - BOTTOM OF WALL

ABBREVIATIONS

- STMH - STORM MANHOLE
FI - FIELD INLET
CI - CURB INLET
CB - CATCH BASIN
EW - ENDWALL
SMH - SANITARY MANHOLE

GENERAL NOTES:

- 1. THE LOCATION OF EXISTING UTILITIES, BOTH UNDERGROUND AND OVERHEAD ARE APPROXIMATE ONLY...
2. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE CAUSED DURING CONSTRUCTION TO PUBLIC PROPERTY...
3. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR REVIEW BY THE ENGINEER PRIOR TO INSTALLATION OF SUCH ITEM...
4. RIGHT OF WAY (ROW) AND PROPERTY LINES ARE APPROXIMATE...
5. CONTRACTOR SHALL OBTAIN ANY NECESSARY WORK IN RIGHT OF WAY, EXCAVATION, DRIVEWAY, UTILITY CONNECTION, PLUGGING AND ABANDONMENT PERMITS PRIOR TO CONSTRUCTION...
6. RETAINING WALLS TO BE DESIGNED BY OTHERS

DEMOLITION NOTES:

- 1. CONTRACTOR SHALL KEEP ALL STREETS FREE AND CLEAR OF CONSTRUCTION RELATED DIRT/DUST/DEBRIS.
2. COORDINATE EXISTING UTILITY REMOVAL/ABANDONMENT WITH LOCAL AUTHORITIES AND UTILITY COMPANIES HAVING JURISDICTION.
3. ALL SAWCUTTING SHALL BE FULL DEPTH TO PROVIDE A CLEAN EDGE TO MATCH NEW CONSTRUCTION...
4. CONTRACTOR SHALL PROVIDE AND SHALL BE RESPONSIBLE FOR ANY NECESSARY TRAFFIC CONTROL SIGNAGE AND SAFETY MEASURES DURING DEMOLITION...
5. COORDINATE TREE REMOVAL WITH LANDSCAPE ARCHITECT...
6. IF APPLICABLE, PROVIDE TREE PROTECTION FENCING PRIOR TO CONSTRUCTION OPERATIONS...
7. ALL LIGHT POLES TO BE REMOVED FROM PRIVATE PROPERTY SHALL BE REMOVED IN THEIR ENTIRETY...
8. CONTRACTOR SHALL CLOSE ALL ABANDONED DRIVEWAYS BY REPLACING THE CURB IN FRONT OF THE DRIVEWAYS...
9. CONTRACTOR SHALL OBTAIN ANY NECESSARY DEMOLITION AND UTILITY PLUGGING PERMITS.
10. ANY DAMAGE TO THE PUBLIC STREETS, INCLUDING DAMAGE RESULTING FROM CURB REPLACEMENT, WILL REQUIRE RESTORATION IN ACCORDANCE WITH THE CITY PATCHING CRITERIA.

SITE PLAN NOTES:

- 1. CONCRETE TO BE 5" THICK, CONSTRUCTED ON A BASE OF 4" COMPACTED BASE COURSE UNLESS OTHERWISE NOTED.
2. CONCRETE FOR DRIVEWAYS AND SIDEWALK AT DRIVEWAY ENTRANCES SHALL BE 7" THICK, CONSTRUCTED ON A BASE COURSE OF 5" COMPACTED SAND OR CRUSHED STONE UNLESS OTHERWISE NOTED.
3. ALL DIMENSIONS WITH CURB & GUTTER ARE REFERENCED TO THE FACE OF CURB.
4. CONTRACTOR SHALL DEEP TILL ANY DISTURBED AREAS TO BE RESTORED WITH TOPSOIL AFTER CONSTRUCTION IS COMPLETE AND BEFORE RESTORING.
5. CONTRACTOR TO OBTAIN ANY NECESSARY DRIVEWAY CONNECTION, RIGHT OF WAY AND EXCAVATION PERMITS PRIOR TO CONSTRUCTION.
6. ANY SIDEWALK AND CURB & GUTTER ABUTTING THE PROPERTY SHALL BE REPLACED IF IT IS DAMAGED DURING CONSTRUCTION...
7. SEE ARCHITECTS PLANS FOR THE BUILDING DIMENSIONS. ALL BUILDING DIMENSIONS SHALL BE COORDINATED AND VERIFIED WITH THE ARCHITECTS PLANS.

GRADING NOTES:

- 1. CONTOURS ARE SHOWN FOR PURPOSES OF INDICATING ROUGH GRADING. FINAL GRADE SHALL BE ESTABLISHED ON PAVED SURFACES BY USING SPOT GRADES ONLY.
2. ALL GRADES SHOWN REFERENCE FINISHED ELEVATIONS.
3. CROSS SLOPE OF SIDEWALKS SHALL BE 2.0% UNLESS OTHERWISE NOTED.
4. LONGITUDINAL GRADE OF SIDEWALK RAMPS SHALL NOT EXCEED 8.33% (1:12) AND SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
5. LONGITUDINAL GRADE OF SIDEWALK SHALL NOT EXCEED 5.0% OR THE ADJACENT STREET GRADE WHICHEVER IS GREATER.
6. ACCESSIBLE ROUTES SHALL BE 5.0% MAX LONGITUDINAL SLOPE AND 1.5% MAX CROSS SLOPE. ACCESSIBLE LOADING AREAS OR LANDINGS SHALL NOT EXCEED 2.0% MAX SLOPE IN ANY DIRECTION. RAMPS SHALL BE 8.33% MAX SLOPE.
7. NO LAND DISTURBANCE ACTIVITIES SHALL BEGIN UNTIL ALL EROSION CONTROL BMP'S ARE INSTALLED.
8. SEE DETAIL SHEETS FOR EROSION CONTROL NOTES AND CONSTRUCTION SEQUENCE.
9. MINIMUM UNPROTECTED OPENING ELEVATION (MUOE) IS 907.

UTILITY NOTES:

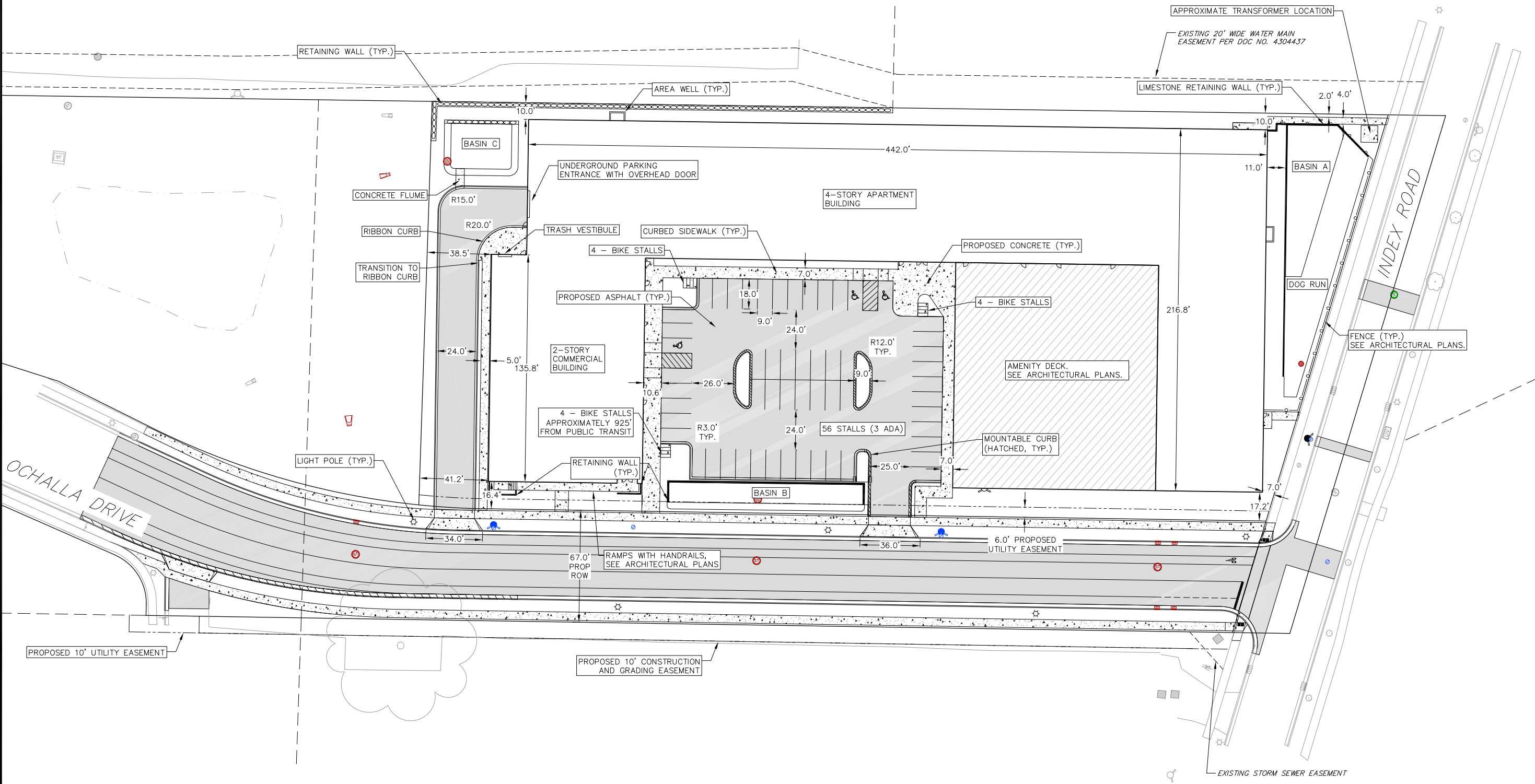
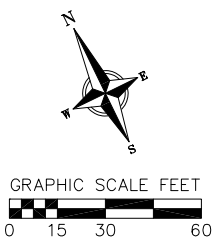
- 1. CONTRACTOR TO VERIFY EXISTING UTILITY LOCATIONS AND ELEVATIONS PRIOR TO STARTING WORK.
2. SANITARY & STORM SEWER LENGTHS SHOWN ARE FROM CENTER OF STRUCTURE TO CENTER OF STRUCTURE. STORM SEWER END SECTIONS ARE INCLUDED IN THE LENGTH AND SLOPE OF THE PIPE.
3. CONTRACTOR SHALL INVESTIGATE ALL UTILITY CROSSINGS PRIOR TO CONSTRUCTION AND NOTIFY ENGINEER OF ANY CONFLICTS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR ADJUSTING ALL UTILITY STRUCTURES TO FINISHED GRADE (MANHOLE RIMS, WATER VALVES, AND CURB STOPS), IF NECESSARY.
5. FOR ALL SEWER AND WATER MAIN CROSSINGS: PROVIDE MINIMUM 18" SEPARATION WHEN WATER MAIN CROSSES BELOW SEWER AND MINIMUM 6" SEPARATION WHEN WATER MAIN CROSSES ABOVE SEWER.
6. IF DEWATERING OPERATIONS EXCEED 70 GALLONS PER MINUTE OF PUMPING CAPACITY, A DEWATERING WELL PERMIT SHALL BE OBTAINED PRIOR TO STARTING ANY DEWATERING ACTIVITIES.
7. A COPY OF THE APPROVED UTILITY PLANS, SPECIFICATIONS AND PLUMBING PERMIT APPROVAL LETTER SHALL BE ON-SITE DURING CONSTRUCTION AND OPEN TO INSPECTION BY AUTHORIZED REPRESENTATIVES OF THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES AND OTHER LOCAL INSPECTORS.
8. PROPOSED UTILITY SERVICE LINES SHOWN ARE APPROXIMATE. COORDINATE THE EXACT LOCATIONS WITH THE PLUMBING DRAWINGS. COORDINATE THE LOCATION WITH THE PLUMBING CONTRACTOR AND/OR OWNER'S CONSTRUCTION REPRESENTATIVE PRIOR TO INSTALLATION OF ANY NEW UTILITIES.
9. STORM BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-6 OF SPS 384.30(3)(C).
10. UNDERGROUND DRAIN AND VENT PIPE/TUBING SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-2 OF SPS 384.30(2).
11. PRIVATE WATER SERVICES AND PRIVATE WATER MAINS SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-7 OF SPS 384.30(4)(D).
12. PRIVATE SANITARY SEWER AND LATERALS SHALL BE POLYVINYL CHLORIDE (PVC) ASTM D3034 - SDR 35 OR APPROVED EQUAL MATERIAL THAT CONFORMS TO ONE OF THE STANDARDS LISTED IN TABLE 384.30-3 OF SPS 384.30(2)(C).
13. A MEANS TO LOCATE BURIED UNDERGROUND EXTERIOR NON METALLIC SEWERS/MAINS AND WATER SERVICES/MAINS MUST BE PROVIDED WITH TRACER WIRE OR OTHER METHODS IN ORDER TO BE LOCATED PER SPS 382.10(11)(H) AND SPS 382.40(8)(K).
14. EXTERIOR WATER SUPPLY PIPING SETBACKS AND CROSSINGS SHALL BE IN ACCORDANCE WITH SPS 382.40(8)(B).
15. NO PERSON MAY ENGAGE IN PLUMBING WORK IN THE STATE UNLESS LICENSED TO DO SO BY THE DEPARTMENT OF SAFETY AND PROFESSIONAL SERVICES PER S.145.06.
16. SITE CONTRACTOR SHALL LEAVE SANITARY AND WATER LATERALS FIVE (5) FEET SHORT (HORIZONTALLY) FROM THE BUILDING. BUILDING PLUMBER SHALL VERIFY SIZE, LOCATION, AND INVERT ELEVATION OF PROPOSED SANITARY AND WATER LATERALS.
17. IT IS THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THAT THE EXISTING VALVES WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. THE LOCAL MUNICIPALITY IS NOT RESPONSIBLE FOR ANY COSTS INCURRED DUE TO THE CONTRACTOR NOT VERIFYING THAT THE EXISTING VALVE WILL HOLD THE PRESSURE TEST PRIOR TO CONNECTION. IF A NEW VALVE IS REQUIRED, THE APPLICANT WILL BE REQUIRED TO INSTALL ONE AT THEIR EXPENSE, AT THE POINT OF CONNECTION.
18. CONTRACTOR TO CHLORINATE AND BACTERIA TEST BEFORE DOMESTIC SUPPLY PURPOSES
19. CLEAN OUT ALL EXISTING AND PROPOSED STORM INLETS AND CATCH BASINS AT THE COMPLETION OF CONSTRUCTION.
20. CONTRACTOR SHALL COORDINATE WITH DRY UTILITY COMPANY'S REGARDING ANY POTENTIAL CONFLICTS AND COORDINATE RELOCATIONS AS MAY BE REQUIRED. CONTRACTOR SHALL ALSO COORDINATE THE PROPOSED INSTALLATION OF NEW FACILITIES AS REQUIRED.
21. ALL WATER MAIN AND SERVICES SHALL BE INSTALLED AT A MINIMUM DEPTH OF 6.5' FROM TOP OF FINISHED GRADE ELEVATION TO TOP OF MAIN. PROVIDE 1.5' CLEAR SEPARATION IF WATER CROSSES BELOW SEWER AND MINIMUM 0.5' IF WATER CROSSES ABOVE.
22. SANITARY MANHOLES WITH SEWER MAIN CONNECTIONS GREATER THAN 2' ABOVE THE LOWEST INVERT SHALL BE CONSTRUCTED WITH AN EXTERNAL DROP. MANHOLES WITH SEWER LATERAL CONNECTIONS GREATER THAN 2' ABOVE THE LOWEST INVERT SHALL BE CONSTRUCTED WITH AN INTERNAL DROP.
23. INSTALL 1 SHEET OF 4'X8'X4" HIGH DENSITY STYROFOAM INSULATION AT ALL LOCATIONS WHERE STORM SEWER CROSSES WATER MAIN OR WATER LATERALS.
24. CONTRACTOR TO INSTALL BENDS AND CLEANOUTS AS NECESSARY ON WATER AND SEWER LATERALS.

NOT FOR CONSTRUCTION

Table with columns for REVISIONS (NO., DATE, REMARKS) and PROJECT NO. (200124). Includes a large 'C1' label at the bottom right.







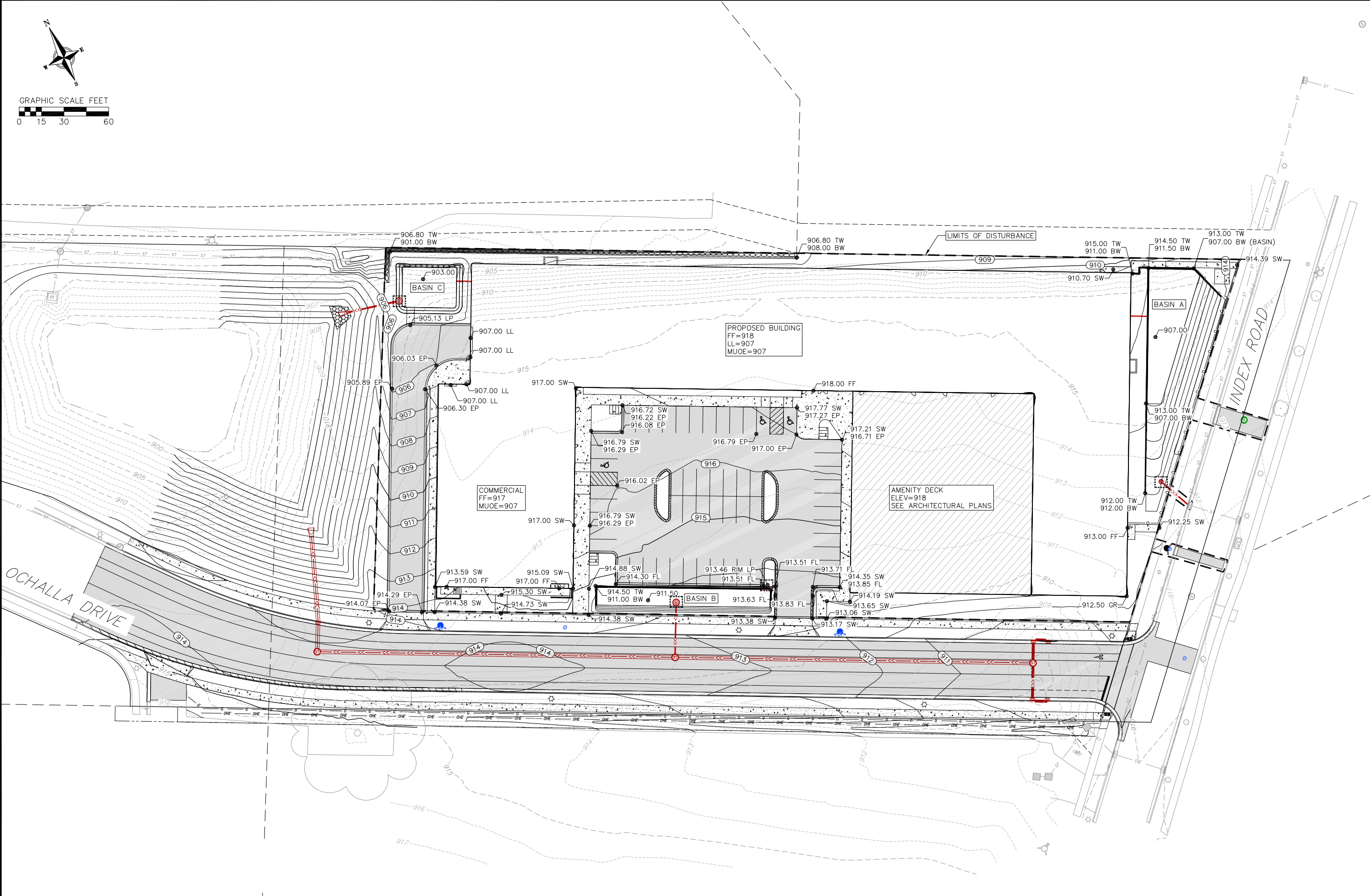
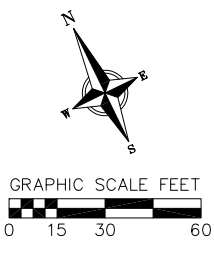
**NOT FOR CONSTRUCTION**

**SITE PLAN**  
OCHALLA MIXED USE DEVELOPMENT  
CITY OF FITCHBURG  
DANE COUNTY, WISCONSIN

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

DATE: 1-18-2022  
 DRAFTER: CLAN  
 CHECKED: TSCH  
 PROJECT NO.: 200124

**C4**



**GRADING & EROSION CONTROL PLAN**  
OCHALLA MIXED USE DEVELOPMENT  
CITY OF FITCHBURG  
DANE COUNTY, WISCONSIN

REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

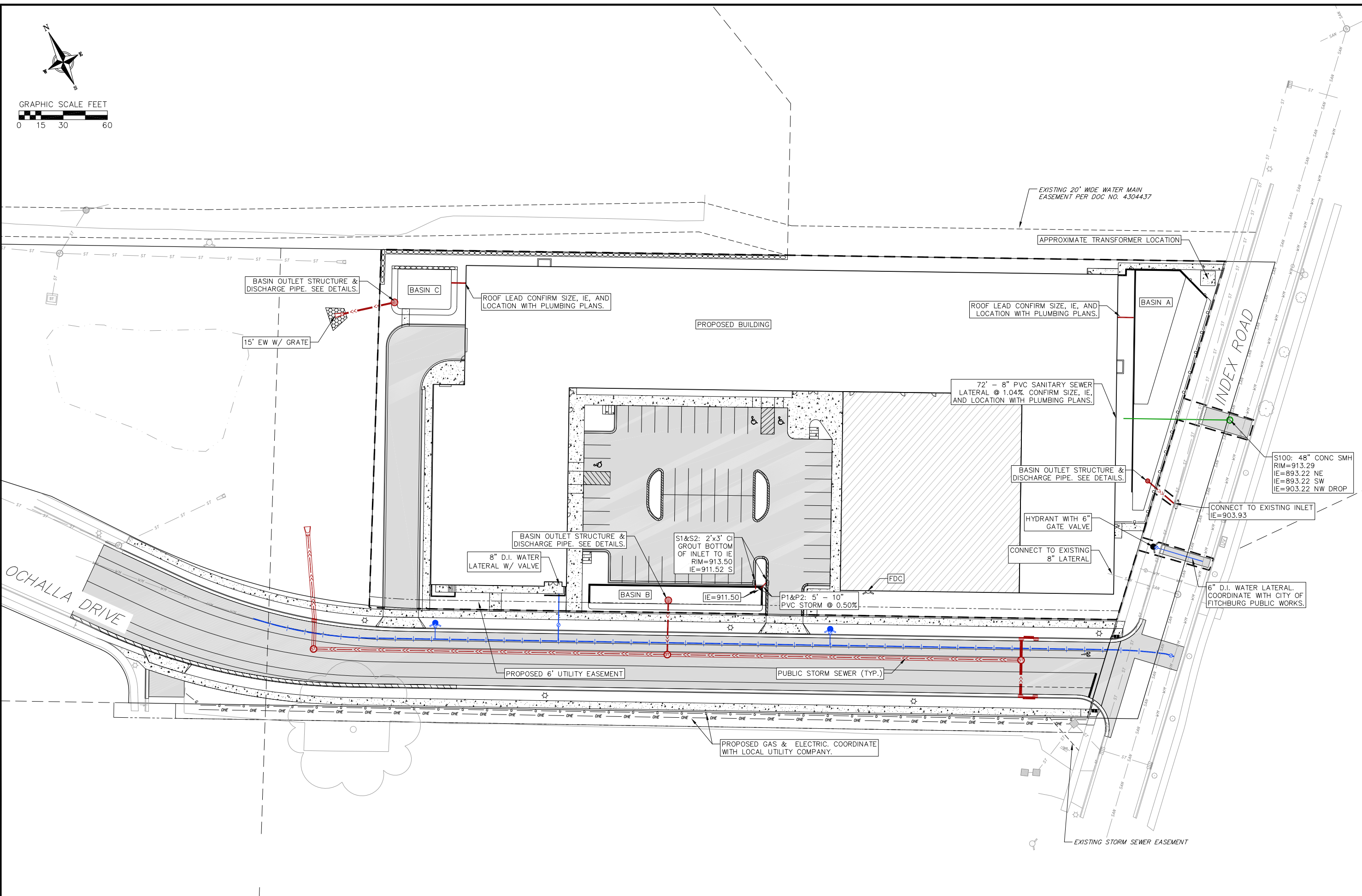
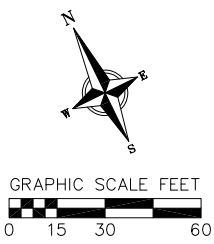
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DRAFTER  
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PROJECT NO.  
200124

**NOT FOR CONSTRUCTION**

**C5**



**NOT FOR CONSTRUCTION**

**UTILITY PLAN**  
OCHALLA MIXED USE DEVELOPMENT  
CITY OF FITCHBURG  
DANE COUNTY, WISCONSIN

REVISIONS		REVISIONS	
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PROJECT NO.: 200124

# EROSION CONTROL MEASURES

- EROSION CONTROL SHALL BE IN ACCORDANCE WITH THE CITY OF FITCHBURG EROSION CONTROL ORDINANCE AND CHAPTER NR 216 OF THE WISCONSIN ADMINISTRATIVE CODE.
- CONSTRUCT AND MAINTAIN ALL EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH WISCONSIN DNR TECHNICAL STANDARDS (<http://dnr.wi.gov/runoff/stormwater/techstds.htm>) AND WISCONSIN CONSTRUCTION SITE BEST MANAGEMENT PRACTICE HANDBOOK.
- INSTALL SEDIMENT CONTROL PRACTICES (TRACKING PAD, PERIMETER SILT FENCE, SEDIMENT BASINS, ETC.) PRIOR TO INITIATING OTHER LAND DISTURBING CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR IS REQUIRED TO MAKE EROSION CONTROL INSPECTIONS AT THE END OF EACH WEEK AND WHEN 0.5 INCHES OF RAIN FALLS WITHIN 24 HOURS. INSPECTION REPORTS SHALL BE PREPARED AND FILED AS REQUIRED BY THE DNR AND/OR CITY. ALL MAINTENANCE SHALL FOLLOW AN INSPECTION WITHIN 24 HOURS.
- EROSION CONTROL IS THE RESPONSIBILITY OF THE CONTRACTOR UNTIL 70% ESTABLISHMENT, AS DETERMINED BY THE CITY. EROSION CONTROL MEASURES AS SHOWN SHALL BE THE MINIMUM PRECAUTIONS THAT WILL BE ALLOWED. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE DEVELOPER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
- A 3" CLEAR STONE TRACKING PAD SHALL BE INSTALLED AT THE END OF ROAD CONSTRUCTION LIMITS TO PREVENT SEDIMENT FROM BEING TRACKED ONTO THE ADJACENT PAVED PUBLIC ROADWAY. SEDIMENT TRACKING PAD SHALL CONFORM TO WISDNR TECHNICAL STANDARD 1057. SEDIMENT REACHING THE PUBLIC ROAD SHALL BE REMOVED BY STREET CLEANING (NOT HYDRAULIC FLUSHING) BEFORE THE END OF EACH WORK DAY.
- CHANNELIZED RUNOFF:** FROM ADJACENT AREAS PASSING THROUGH THE SITE SHALL BE DIVERTED AROUND DISTURBED AREAS.
- STABILIZED DISTURBED GROUND:** ANY SOIL OR DIRT PILES WHICH WILL REMAIN IN EXISTENCE FOR MORE THAN 7-CONSECUTIVE DAYS, WHETHER TO BE WORKED DURING THAT PERIOD OR NOT, SHALL NOT BE LOCATED WITHIN 25- FEET OF ANY ROADWAY, PARKING LOT, PAVED AREA, OR DRAINAGE STRUCTURE OR CHANNEL (UNLESS INTENDED TO BE USED AS PART OF THE EROSION CONTROL MEASURES). TEMPORARY STABILIZATION AND CONTROL MEASURES (SEEDING, MULCHING, TARPING, EROSION MATTING, BARRIER FENCING, ETC.) ARE REQUIRED FOR THE PROTECTION OF DISTURBED AREAS AND SOIL PILES, WHICH WILL REMAIN UN-WORKED FOR A PERIOD OF MORE THAN 14-CONSECUTIVE CALENDAR DAYS. THESE MEASURES SHALL REMAIN IN PLACE UNTIL SITE HAS STABILIZED.
- SITE DE-WATERING:** WATER PUMPED FROM THE SITE SHALL BE TREATED BY TEMPORARY SEDIMENTATION BASINS OR OTHER APPROPRIATE CONTROL MEASURES. SEDIMENTATION BASINS SHALL HAVE A DEPTH OF AT LEAST 3 FEET, BE SURROUNDED BY SNOWFENCE OR EQUIVALENT BARRIER AND HAVE SUFFICIENT SURFACE AREA TO PROVIDE A SURFACE SETTLING RATE OF NO MORE THAN 750 GALLONS PER SQUARE FOOT PER DAY AT THE HIGHEST DEWATERING PUMPING RATE. WATER MAY NOT BE DISCHARGED IN A MANNER THAT CAUSES EROSION OF THE SITE, A NEIGHBORING SITE, OR THE BED OR BANKS OF THE RECEIVING WATER. POLYMERS MAY BE USED AS DIRECTED BY DNR TECHNICAL STANDARD 1061 (DE-WATERING).
- INLET FILTERS ARE TO BE PLACED IN STORMWATER INLET STRUCTURES AS SOON AS THEY ARE INSTALLED. THE FILTERS SHALL BE MAINTAINED UNTIL THE DISTURBED AREAS ARE BOTH 70% RESTORED AND PAVED.
- TERRACES SHALL BE RESTORED WITH 6" TOPSOIL, PERMANENT SEED, FERTILIZER AND URBAN CLASS I TYPE A EROSION MAT. LOTS SHALL BE RESTORED WITH 6" TOPSOIL, TEMPORARY SEED, FERTILIZER AND MULCH.
- SEED, FERTILIZER AND MULCH/E-MAT SHALL BE APPLIED WITHIN 7 DAYS AFTER FINAL GRADE HAS BEEN ESTABLISHED. IF DISTURBED AREAS WILL NOT BE RESTORED IMMEDIATELY AFTER ROUGH GRADING, TEMPORARY SEED SHALL BE PLACED.
- FOR THE FIRST SIX WEEKS AFTER RESTORATION (E.G. SEED & MULCH, EROSION MAT, SOD) OF A DISTURBED AREA, INCLUDE SUMMER WATERING PROVISIONS OF ALL NEWLY SEEDED AND MULCHED AREAS WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
- SOIL STABILIZERS SHALL BE APPLIED TO DISTURBED AREAS WITH SLOPES BETWEEN 10% AND 3:1 (DO NOT USE IN CHANNELS). SOIL STABILIZERS SHALL BE TYPE B, PER WISCONSIN D.O.T. P.A.L. (PRODUCT ACCEPTABILITY LIST), OR EQUAL. APPLY AT RATES AND METHODS SPECIFIED PER MANUFACTURER. SOIL STABILIZERS SHALL BE RE-APPLIED WHENEVER VEHICLES OR OTHER EQUIPMENT TRACK ON THE AREA.
- SILT FENCE OR EROSION MAT SHALL BE INSTALLED ALONG THE CONTOURS AT 100 FOOT INTERVALS DOWN THE SLOPE ON THE DISTURBED SLOPES STEEPER THAN 5% AND MORE THAN 100 FEET LONG THAT SHEET FLOW TO THE ROADWAY UNLESS SOIL STABILIZERS ARE USED.
- SILT FENCE TO BE USED ACROSS AREAS OF THE LOT THAT SLOPE TOWARDS A PUBLIC STREET OR WATERWAY. SEE DETAILS.
- SEDIMENT SHALL BE CLEANED FROM CURB AND GUTTER AFTER EACH RAINFALL AND PRIOR TO PROJECT ACCEPTANCE AND AS DIRECTED BY ENGINEER/CITY/OWNER.
- ALL CONSTRUCTION ENTRANCES SHALL HAVE TWO TYPE III TEMPORARY ROAD CLOSED BARRICADES WITH SIGNS THAT WILL BE IN PLACE WHEN THE ENTRANCE IS NOT IN USE AND AT THE END OF EACH DAY.
- ANY PROPOSED CHANGES TO THE EROSION CONTROL PLAN MUST BE SUBMITTED AND APPROVED BY THE CITY AND DNR.
- THE CITY, OWNER AND/OR ENGINEER MAY REQUIRE ADDITIONAL EROSION CONTROL MEASURES AT ANY TIME DURING CONSTRUCTION.
- THE CONTRACTOR SHALL REMOVE ANY SEDIMENT TRACKED ONTO ADJACENT ROADS BY MEANS OF STREET SWEEPING (NOT FLUSHING) AT A MINIMUM OF THE END OF EACH WORK DAY OR MORE AS NEEDED.

## SEEDING RATES:

### TEMPORARY:

- USE ANNUAL OATS AT 3.0 LB./1,000 S.F. FOR SPRING AND SUMMER PLANTINGS.
- USE WINTER WHEAT OR RYE AT 3.0 LB./1,000 SF FOR FALL PLANTINGS STARTED AFTER SEPTEMBER 15.

### PERMANENT (TERRACE):

- USE WISCONSIN D.O.T. SEED MIX #30 AT 5 LB./1,000 S.F.

### PERMANENT (OTHER):

- USE WISCONSIN D.O.T. SEED MIX #40 AT 5 LB./1,000 S.F.

## FERTILIZING RATES:

### TEMPORARY AND PERMANENT:

- USE WISCONSIN D.O.T. TYPE B AT 7 LB./1,000 S.F.

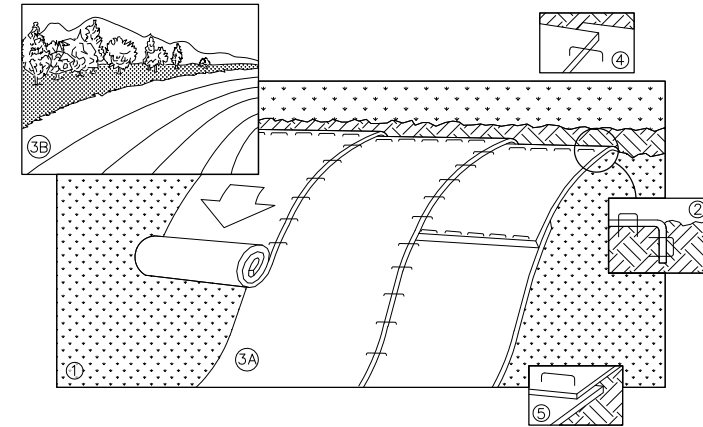
## MULCHING RATES:

### TEMPORARY AND PERMANENT:

- USE 1/2" TO 1-1/2" STRAW OR HAY MULCH, CRIMPED PER SECTION 607.3.2.3, OR OTHER RATE AND METHOD PER SECTION 627, WISCONSIN D.O.T. STANDARD SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION

## CONSTRUCTION SEQUENCE:

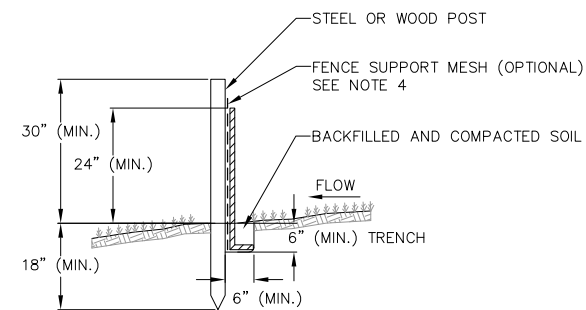
- INSTALL EROSION CONTROL MEASURES
- CONDUCT DEMOLITION
- STRIP TOPSOIL (UNWORKED AREAS MAY REMAIN NON-STABILIZED FOR A MAXIMUM OF 14 DAYS)
- ROUGH GRADE SITE
- CONSTRUCT UNDERGROUND UTILITIES
- INSTALL INLET PROTECTION IN NEW INLETS
- FINAL GRADE AND RESTORE DISTURBED AREA
- CONSTRUCT PAVEMENT
- REMOVE EROSION CONTROL MEASURES AFTER DISTURBED AREAS ARE 70% RESTORED OR PAVED



NOTE: REFER TO GENERAL STAPLE PATTERN GUIDE FOR CORRECT STAPLE PATTERN RECOMMENDATIONS FOR SLOPE INSTALLATIONS.

- PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING APPLICATION OF FERTILIZER AND SEED.  
NOTE: WHEN USING CELL-O-SEED, DO NOT SEED PREPARED AREA. CELL-O-SEED MUST BE INSTALLED WITH PAPER SIDE DOWN.
- BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN 6" DEEP BY 6" WIDE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING.
- ROLL THE BLANKETS <A.> DOWN, OR <B.> HORIZONTALLY ACROSS THE SLOPE.
- THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2" OVERLAP.
- WHEN BLANKETS MUST BE SPLICED DOWN THE SLOPE, PLACE BLANKETS END OVER END (SHINGLE STYLE) WITH APPROXIMATELY 4" OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" APART.
- ALL BLANKETS MUST BE SECURELY FASTENED TO THE SLOPE BY PLACING BIODEGRADABLE STAPLES/STAKES IN APPROPRIATE LOCATIONS AS RECOMMENDED BY THE MANUFACTURER.

1 BIODEGRADABLE EROSION MAT  
1 NOT TO SCALE



### NOTES:

- INSTALL SILT FENCE TO FOLLOW THE GROUND CONTOURS AS CLOSELY AS POSSIBLE.
- CURVE THE SILT FENCE UP THE SLOPE TO PREVENT WATER FROM RUNNING AROUND THE ENDS.
- POST SPACING WITH FENCE SUPPORT MESH = 10 FT. (MAX.)  
POST SPACING WITHOUT FENCE SUPPORT MESH = 6 FT. (MAX.)
- SILT FENCE SUPPORT MESH CONSISTS OF 14-GAUGE STEEL WIRE WITH A MESH SPACING OF 6 IN. X 6 IN. OR PREFABRICATED POLYMERIC MESH OF EQUIVALENT STRENGTH

1 SILT FENCE  
1 NOT TO SCALE

**NOT FOR CONSTRUCTION**



REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

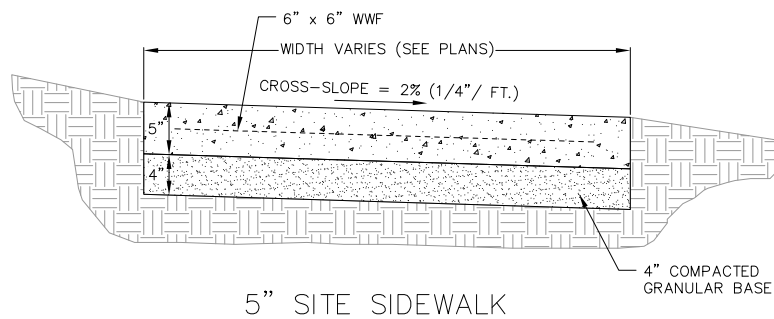
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DRAFTER  
CLAN

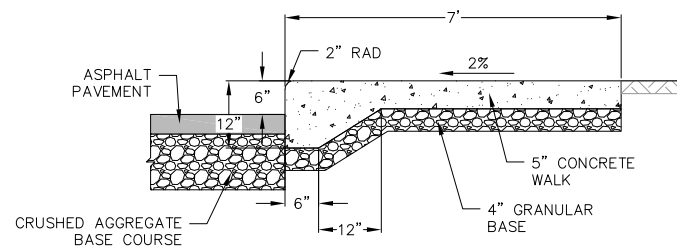
CHECKED  
TSCH

PROJECT NO.  
200124

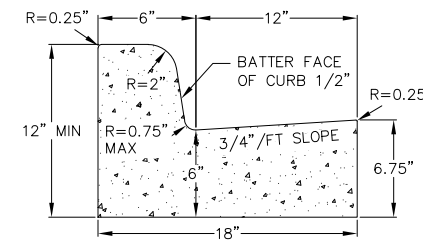
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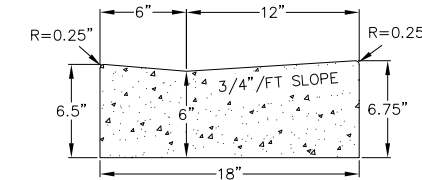
5" SITE SIDEWALK



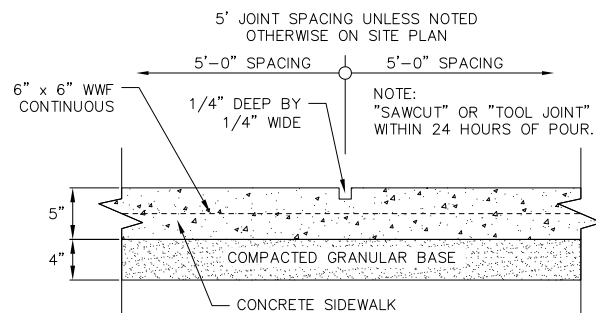
1 CURBED SIDEWALK SITE DETAIL  
1 NOT TO SCALE



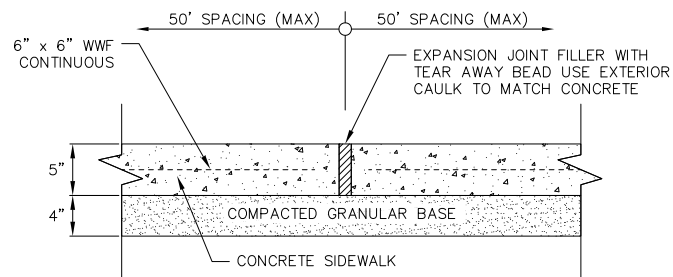
CURB AND GUTTER CROSS SECTION



HANDICAP RAMP GUTTER CROSS SECTION



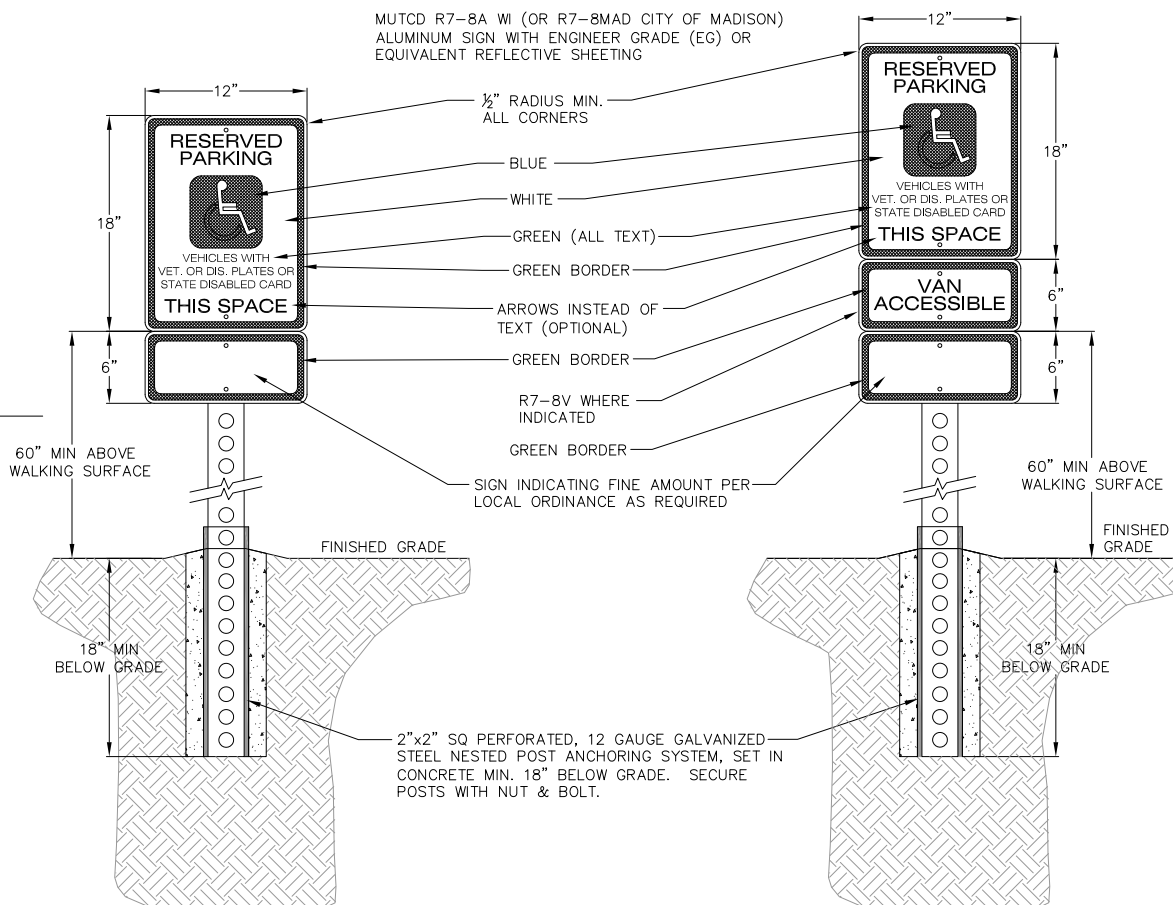
SIDEWALK CONTROL JOINT



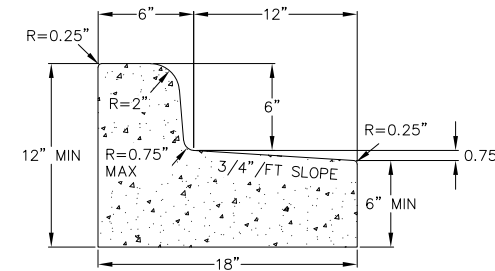
SIDEWALK EXPANSION JOINT

NOTE: SIGN TO BE CENTERED AT THE INTERIOR END OF PARKING SPACE

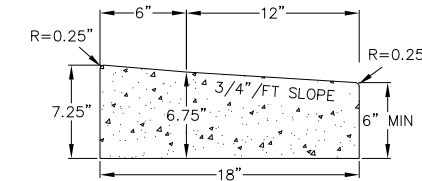
MUTCD R7-8A W1 (OR R7-8MAD CITY OF MADISON) ALUMINUM SIGN WITH ENGINEER GRADE (EG) OR EQUIVALENT REFLECTIVE SHEETING



1 HANDICAP SIGN DETAIL  
1 NOT TO SCALE

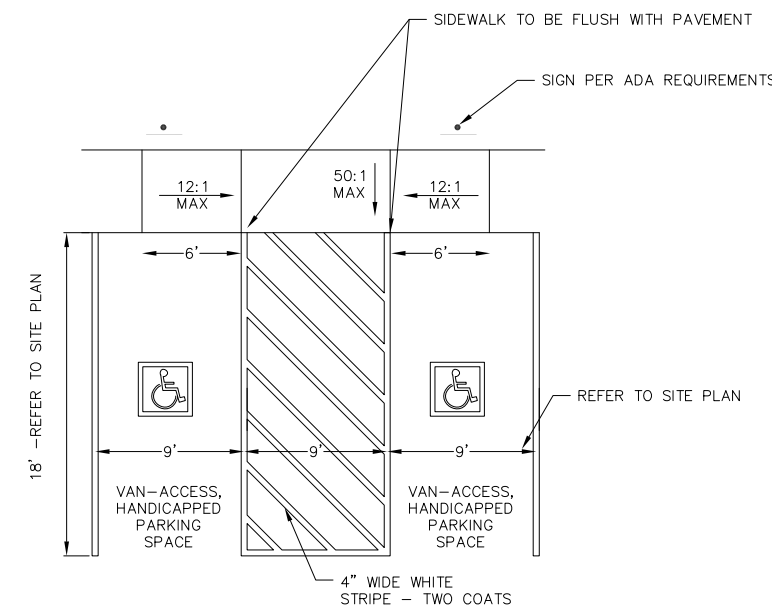


CURB AND GUTTER REJECT SECTION



HANDICAP RAMP GUTTER REJECT SECTION

1 18" CONCRETE CURB AND GUTTER  
1 NOT TO SCALE



1 ADA STRIPING  
1 NOT TO SCALE

**NOT FOR CONSTRUCTION**

1 5" SIDEWALK  
1 NOT TO SCALE

1 ASPHALT PAVEMENT  
1 NOT TO SCALE

REVISIONS		NO.	DATE	REMARKS

DATE: 1-18-2022  
DRAFTER: CLAN  
CHECKED: TSCH  
PROJECT NO.: 200124



**BIO-RETENTION AREA RESTORATION SPECIFICATIONS:**

BIO-RETENTION AREA MUST NOT BE CONSTRUCTED (INSTALLED) UNTIL THE SITE IS STABILIZED, I.E. THE GRASS COVER IS WELL ESTABLISHED.

BIO-RETENTION AREA MUST CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1004 (BIORETENTION FOR INFILTRATION)

USE RAINWATER GARDEN LIVE NATIVE PLANT PLUGS FROM AGRECOL (SUNNY, SHORT, OR MEDIUM STATURE) – OR ENGINEER APPROVED EQUAL.

PLANT PLUGS AT 1 PER SQUARE FOOT.

**INFILTRATION AREA RESTORATION SPECIFICATIONS:**

NOTE: INFILTRATION AREA MUST NOT BE CONSTRUCTED (INSTALLED) UNTIL THE SITE IS STABILIZED, I.E. THE GRASS COVER IS WELL ESTABLISHED.

INFILTRATION AREA MUST CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1003 (INFILTRATION BASIN)

**PLANTING, MULCH, AND MAINTENANCE NOTES:**

NATIVE (PRAIRIE) SEEDING SHALL BE COMPLETED IN THE FALL (AS DORMANT SEEDING PRIOR TO FIRST SNOWFALL) OR IN THE SPRING (BETWEEN MAY 1 AND JUNE 20), OR PLUGS SHALL BE USED.

MULCH SHALL CONFORM TO THE CRITERIA LOCATED IN WDNR CONSERVATION PRACTICE STANDARD MULCHING FOR CONSTRUCTION SITES (1058).

HEAVILY WATER AREA AT THE TIME OF SEEDING, AND EVERY OTHER DAY FOR A TOTAL OF 4 WATERINGS. A RAIN EVENT GREATER THAN 0.5 INCHES CONSTITUTES A WATERING.

**MAINTENANCE OF NATIVE VEGETATION (MOWING, CUTTING OR BURNING SHALL BE USED TO MAINTAIN VEGETATION:**

1. ESTABLISHMENT- THE FIRST MORNING OF NEWLY PLANTED SEED SHALL OCCUR ONCE IT REACHES A HEIGHT OF 10 TO 12 INCHES.
2. MOWING-MOWING SHALL REDUCE THE HEIGHT OF PLANTS TO 5 TO 6 INCHES. IF AFTER ESTABLISHMENT, IF BURNING CANNOT BE ACCOMMODATED, MOWING SHALL OCCUR ONCE IN THE FALL AFTER NOVEMBER 1). THE AREA SHALL BE MOWED TO A HEIGHT OF 5 TO 6 INCHES.
3. BURNING
  - A. ROUTINE MAINTENANCE – BEGINNING THE SECOND YEAR, BURNING SHALL OCCUR IN THE EARLY SPRING (PRIOR TO MAY 1ST) OR IN THE LATE FALL (AFTER NOVEMBER 1ST)
  - B. BURNING SHALL BE DONE TWO CONSECUTIVE YEARS AND THEN UP TO THREE YEARS CAN PASS BEFORE THE NEXT BURNING.
  - C. UNDER NO CIRCUMSTANCES SHALL BURNING OCCUR EVERY OTHER YEAR

**RESTORATION OF THE INFILTRATION AREA (NOT INCLUDING SIDE SLOPES):**

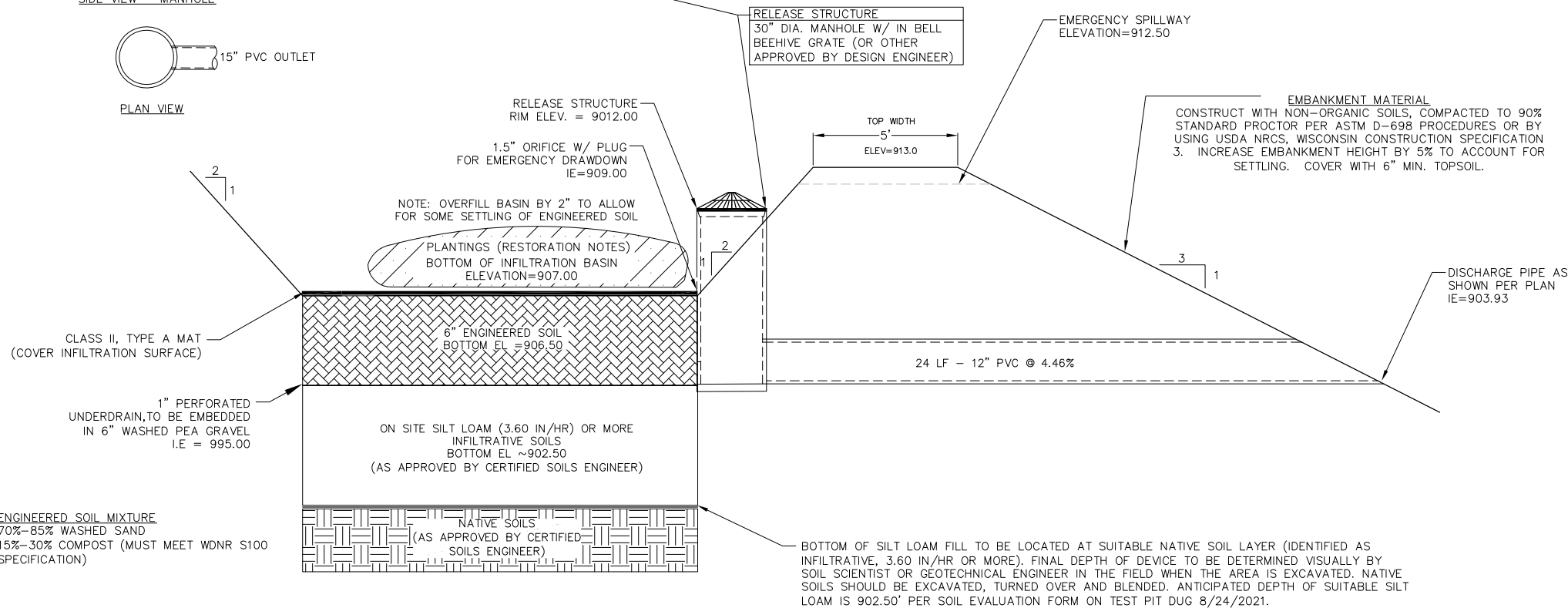
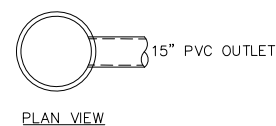
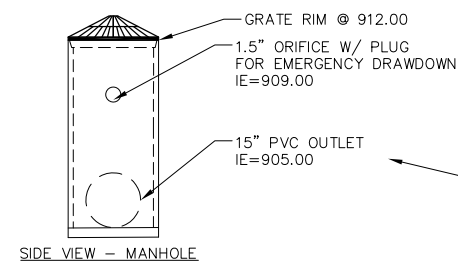
1. OVER-EXCAVATE THE AREA TO INFILTRATIVE LAYER TO BE DETERMINED IN THE FIELD, DURING EXCAVATION, BY DESIGN ENGINEER.
2. CHISEL PLOW, OR ROTO-TILL THE BASE OF THE AREA TO BREAK UP ANY HARDPAN IN THE NATIVE SOIL LAYER.
3. SEED, MULCH, WATER, AND MAINTAIN AS DIRECTED ABOVE.

**GRANULAR FILL**

MEET ONE OF THE FOLLOWING GRADATION REQUIREMENTS:

- USDA COARSE SAND (0.02–0.04 INCHES)
- ASTM C33 (FINE AGGREGATE CONCRETE SAND)
- WISCONSIN STANDARDS AND SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, SECTION 501.2.5.3.4 (FINE AGGREGATE CONCRETE SAND) 2005 EDITION, OR AN EQUIVALENT AS APPROVED BY THE ADMINISTERING AUTHORITY.

**BIORETENTION BASIN OUTLET STRUCTURE DETAIL**  
NOT TO SCALE



1 BASIN A INFILTRATION CROSS-SECTION  
1 NOT TO SCALE

**NOT FOR CONSTRUCTION**

**CONSTRUCTION DETAILS**  
OCHALLA MIXED USE DEVELOPMENT  
CITY OF FITCHBURG  
DANE COUNTY, WISCONSIN

NO.	DATE	REVISIONS	
		REMARKS	

DATE: 1-18-2022  
DRAFTER: CLAN  
CHECKED: TSCH  
PROJECT NO.: 200124

**C7.3**

**BIO-RETENTION AREA RESTORATION SPECIFICATIONS:**

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BIO-RETENTION AREA MUST CONFORM TO WISCONSIN DNR TECHNICAL STANDARD 1004 (BIORETENTION FOR INFILTRATION)

USE RAINWATER GARDEN LIVE NATIVE PLANT PLUGS FROM AGRECOL (SUNNY, SHORT, OR MEDIUM STATURE) – OR ENGINEER APPROVED EQUAL.

PLANT PLUGS AT 1 PER SQUARE FOOT.

**INFILTRATION AREA RESTORATION SPECIFICATIONS:**

NOTE: INFILTRATION AREA MUST NOT BE CONSTRUCTED (INSTALLED) UNTIL THE SITE IS STABILIZED, I.E. THE GRASS COVER IS WELL ESTABLISHED.

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**PLANTING, MULCH, AND MAINTENANCE NOTES:**

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**MAINTENANCE OF NATIVE VEGETATION (MOWING, CUTTING OR BURNING SHALL BE USED TO MAINTAIN VEGETATION:**

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3. BURNING
  - A. ROUTINE MAINTENANCE – BEGINNING THE SECOND YEAR, BURNING SHALL OCCUR IN THE EARLY SPRING (PRIOR TO MAY 1ST) OR IN THE LATE FALL (AFTER NOVEMBER 1ST)
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  - C. UNDER NO CIRCUMSTANCES SHALL BURNING OCCUR EVERY OTHER YEAR

**RESTORATION OF THE INFILTRATION AREA (NOT INCLUDING SIDE SLOPES):**

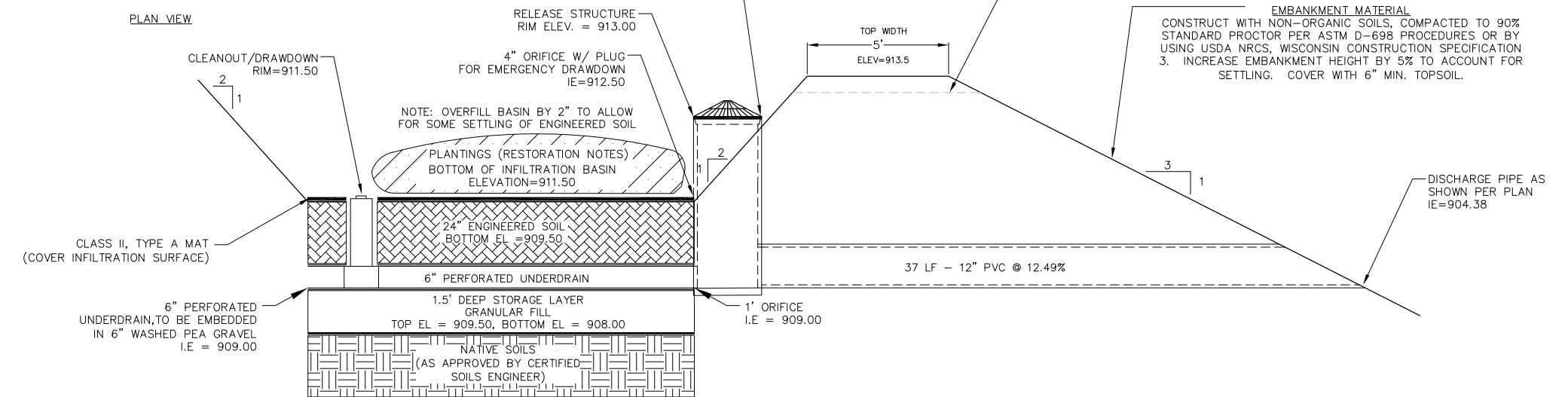
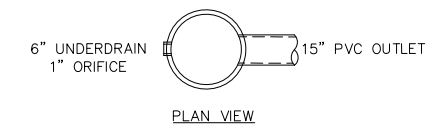
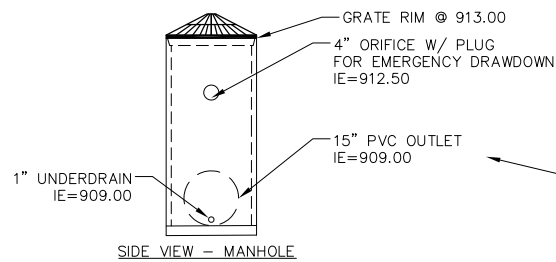
1. OVER-EXCAVATE THE AREA TO INFILTRATIVE LAYER TO BE DETERMINED IN THE FIELD, DURING EXCAVATION, BY DESIGN ENGINEER.
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**GRANULAR FILL**

MEET ONE OF THE FOLLOWING GRADATION REQUIREMENTS:

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**BIORETENTION BASIN OUTLET STRUCTURE DETAIL**  
NOT TO SCALE



**ENGINEERED SOIL MIXTURE**  
70%–85% WASHED SAND  
15%–30% COMPOST (MUST MEET WDNR S100 SPECIFICATION)

1 BASIN B BIO-RETENTION CROSS-SECTION  
1 NOT TO SCALE

**NOT FOR CONSTRUCTION**

**CONSTRUCTION DETAILS**  
OCHALLA MIXED USE DEVELOPMENT  
CITY OF FITCHBURG  
DANE COUNTY, WISCONSIN

NO.	DATE	REVISIONS	
		REMARKS	

DATE: 1-18-2022  
DRAFTER: CLAN  
CHECKED: TSCH  
PROJECT NO.: 200124  
**C7.4**

**BIO-RETENTION AREA RESTORATION SPECIFICATIONS:**

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**PLANTING, MULCH, AND MAINTENANCE NOTES:**

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  - C. UNDER NO CIRCUMSTANCES SHALL BURNING OCCUR EVERY OTHER YEAR

**RESTORATION OF THE INFILTRATION AREA (NOT INCLUDING SIDE SLOPES):**

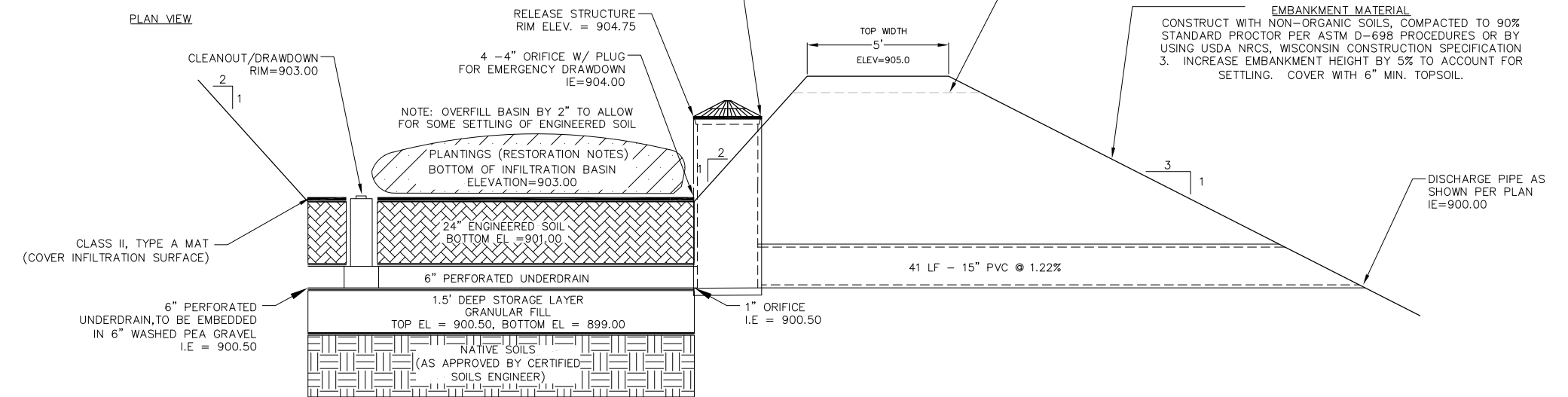
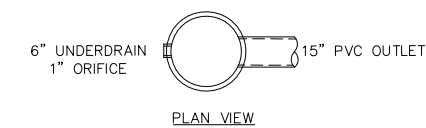
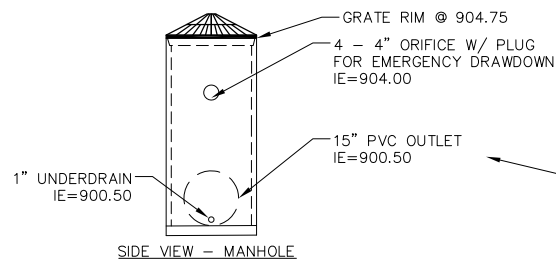
1. OVER-EXCAVATE THE AREA TO INFILTRATIVE LAYER TO BE DETERMINED IN THE FIELD, DURING EXCAVATION, BY DESIGN ENGINEER.
2. CHISEL PLOW, OR ROTO-TILL THE BASE OF THE AREA TO BREAK UP ANY HARDPAN IN THE NATIVE SOIL LAYER.
3. SEED, MULCH, WATER, AND MAINTAIN AS DIRECTED ABOVE.

**GRANULAR FILL**

MEET ONE OF THE FOLLOWING GRADATION REQUIREMENTS:

- USDA COARSE SAND (0.02–0.04 INCHES)
- ASTM C33 (FINE AGGREGATE CONCRETE SAND)
- WISCONSIN STANDARDS AND SPECIFICATIONS FOR HIGHWAY AND STRUCTURE CONSTRUCTION, SECTION 501.2.5.3.4 (FINE AGGREGATE CONCRETE SAND) 2005 EDITION, OR AN EQUIVALENT AS APPROVED BY THE ADMINISTERING AUTHORITY.

**BIORETENTION BASIN OUTLET STRUCTURE DETAIL**  
NOT TO SCALE



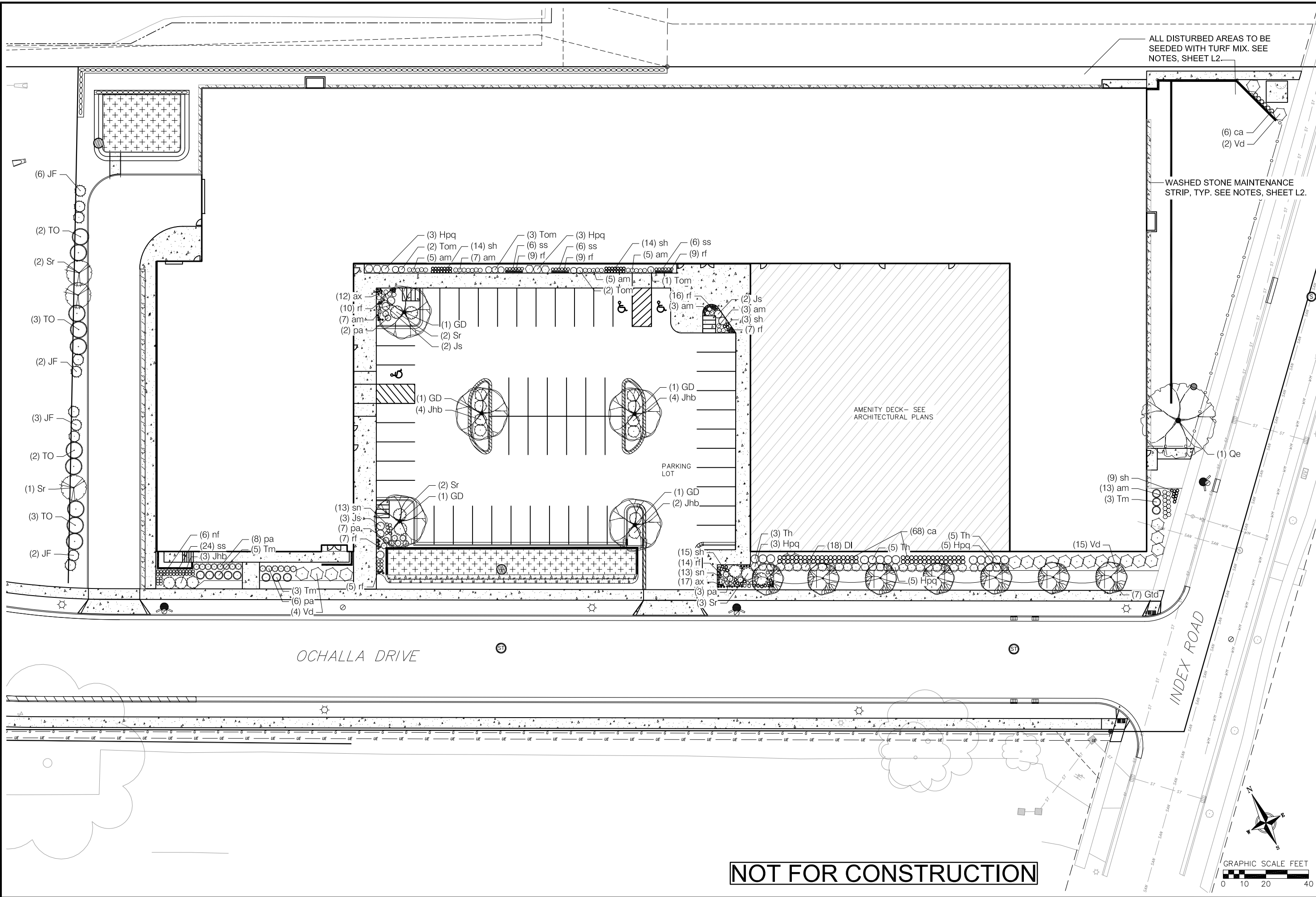
**ENGINEERED SOIL MIXTURE**  
70%–85% WASHED SAND  
15%–30% COMPOST (MUST MEET WDNR S100 SPECIFICATION)

1 BASIN C BIO-RETENTION CROSS-SECTION  
1 NOT TO SCALE

**NOT FOR CONSTRUCTION**

REVISIONS		NO.	DATE	REMARKS

DATE: 1-18-2022  
DRAFTER: CLAN  
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PROJECT NO.: 200124  
**C7.5**



ALL DISTURBED AREAS TO BE SEED WITH TURF MIX. SEE NOTES, SHEET L2.

WASHED STONE MAINTENANCE STRIP, TYP. SEE NOTES, SHEET L2.

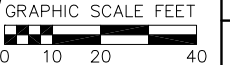
AMENITY DECK - SEE ARCHITECTURAL PLANS

PARKING LOT

OCHALLA DRIVE

INDEX ROAD

NOT FOR CONSTRUCTION



REVISIONS		REVISIONS	
NO.	DATE	NO.	DATE

DATE  
1-18-2022

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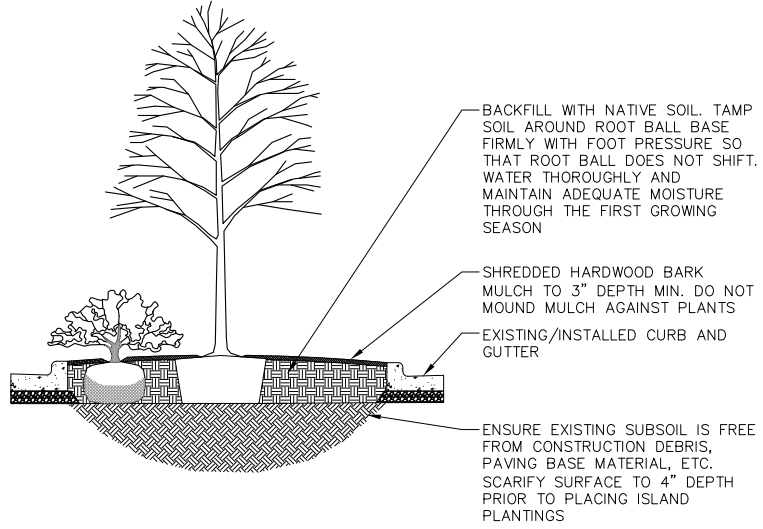
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PROJECT NO.  
200124

**L1**

NOTES:

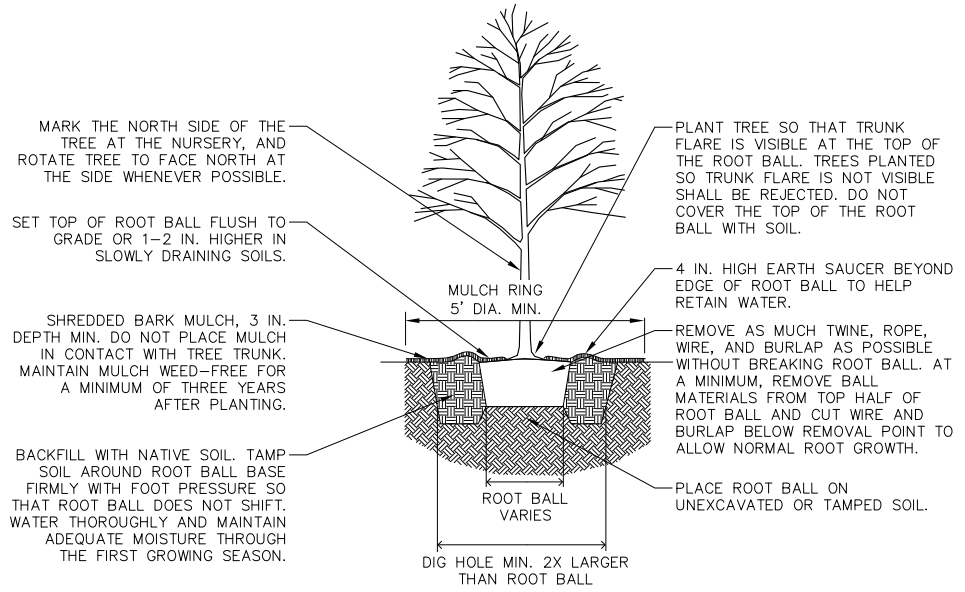
1. PARKING ISLAND TO BE FREE OF AGGREGATE TO A MINIMUM DEPTH OF 24"
2. ANY PAVEMENT BASE MATERIALS REMAINING FROM PAVEMENT INSTALLATION WITHIN PLANTING AREA SHALL BE REMOVED AND REPLACED WITH NATIVE SOIL PRIOR TO PLANTING



1 PARKING ISLAND PLANTING AREA  
1 NOT TO SCALE

NOTES:

1. DO NOT HEAVILY PRUNE TREE AT PLANTING. PRUNE ONLY CROSSING LIMBS, CO-DOMINANT LEADERS, AND BROKEN OR DEAD BRANCHES. DO NOT REMOVE THE TERMINAL BUDS OF BRANCHES THAT EXTEND TO THE EDGE OF THE CROWN.
2. STAKE TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.
3. WRAP TREES ONLY UPON THE APPROVAL OF THE LANDSCAPE ARCHITECT.



1 B&B TREE PLANTING DETAIL  
1 NOT TO SCALE

PLANT MATERIAL NOTES:

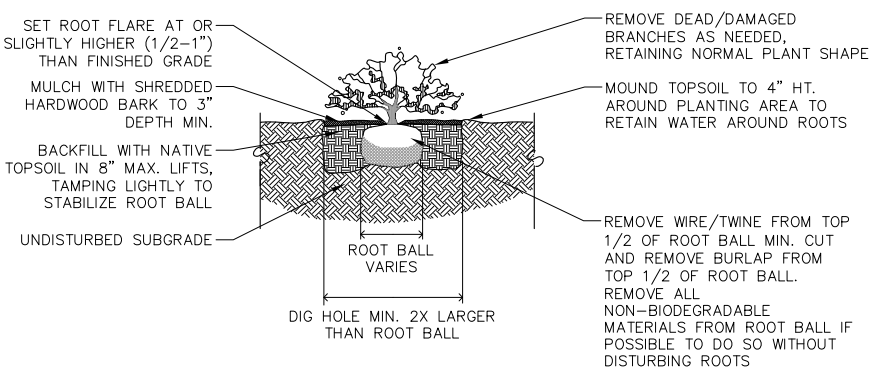
1. ALL PLANTINGS SHALL CONFORM TO QUALITY REQUIREMENTS AS PER ANSI Z60.1.
2. ALL PLANT MATERIAL SHALL BE TRUE TO SPECIES, VARIETY AND SIZE SPECIFIED, NURSERY GROWN IN ACCORDANCE WITH GOOD HORTICULTURAL PRACTICES, AND UNDER CLIMATIC CONDITIONS SIMILAR TO THOSE OF THE PROJECT SITE.
3. CONTACT LANDSCAPE ARCHITECT, IN WRITING, TO REQUEST ANY PLANT MATERIAL SUBSTITUTIONS DUE TO AVAILABILITY ISSUES.
4. ALL PLANTS SHALL BE GUARANTEED TO BE IN HEALTHY AND FLOURISHING CONDITION DURING THE GROWING SEASON FOLLOWING INSTALLATION. ALL PLANT MATERIAL SHALL BE GUARANTEED FOR ONE YEAR FROM THE TIME OF INSTALLATION.

LANDSCAPE MATERIAL NOTES:

1. CONTRACTOR SHALL PROVIDE A SUITABLE AMENDED TOPSOIL BLEND FOR ALL PLANTING AREAS WHERE SOIL CONDITIONS ARE UNSUITABLE FOR PLANT GROWTH. TOPSOIL SHALL CONFORM TO QUALITY REQUIREMENTS AS PER SECTION 625.2(1) OF THE "STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION." PROVIDE A MINIMUM OF 18" OF TOPSOIL IN ALL PLANTING AREAS AND 6" OF TOPSOIL IN AREAS TO BE SEEDED/SODDED.
2. LANDSCAPE BEDS TO BE MULCHED WITH UNDYED SHREDDED HARDWOOD BARK MULCH TO 3" DEPTH MIN. AND EDGED WITH COMMERCIAL GRADE ALUMINUM LANDSCAPE EDGING, PERMALOC CLEANLINE 3/8"x4" OR EQUAL, COLOR BLACK ANODIZED.
3. ALL TREES AND/OR SHRUBS PLANTED IN LAWN AREAS TO BE INSTALLED WITH A 5' DIAMETER MULCH RING AND SHOVEL CUT EDGE. A PRE-EMERGENT GRANULAR HERBICIDE WEED-PREVENTER SHOULD BE MIXED WITH MULCH AS WELL AS TOPICALLY APPLIED TO TREE RING.

SEEDING AND PLUG PLANTING NOTES:

1. ALL DISTURBED AREAS, UNLESS OTHERWISE NOTED, TO BE SEEDED WITH 'MADISON PARKS' MIX BY 'LACROSSE SEED COMPANY' OR EQUIVALENT, PER MANUFACTURER'S SPECIFIED APPLICATION RATES. ALL SEEDED AREAS ARE TO BE WATERED DAILY TO MAINTAIN ADEQUATE SOIL MOISTURE FOR PROPER GERMINATION. AFTER VIGOROUS GROWTH IS ESTABLISHED, APPLY 1/2" WATER TWICE WEEKLY UNTIL FINAL ACCEPTANCE.
2. INSTALL BIORETENTION PLUG PLANTINGS AS 2" X 2" X 4" DEEP PLUGS, 12" ON CENTER IN A TRIANGULAR GRID PATTERN. PLANT SPECIES IN ODD NUMBERED GROUPS OF 5-9 PLANTS, DISTRIBUTING EACH SPECIES RANDOMLY ACROSS PLANTING AREA FOR NATURAL APPEARANCE.



1 SHRUB PLANTING DETAIL  
1 NOT TO SCALE

PLANT SCHEDULE

EVERGREEN TREES	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	QTY
JF	Juniperus chinensis 'Fairview' / Fairview Juniper	B & B	6' ht.	13
TO	Thuja occidentalis x plicata 'Wintergreen' / Wintergreen Arborvitae	B & B	6' ht.	11
UNDERSTORY TREES	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	QTY
Sr	Syringa reticulata 'Ivory Silk' / Ivory Silk Japanese Tree Lilac	B & B	2" Cal	3
DECIDUOUS TREES	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	QTY
Gtd	Gleditsia triacanthos 'Draves' / Street Keeper Honey Locust	B & B	2.5" Cal	7
GD	Gymnodadus dioica 'Espresso' / Kentucky Coffeetree	B & B	2.5" Cal	5
Qe	Quercus ellipsoidalis / Hills Oak	B & B	2.5" Cal	1
DECIDUOUS SHRUBS	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	QTY
Dj	Diervilla lonicera / Dwarf Bush Honeysuckle	Cont.	3 Gal.	18
Hqj	Hydrangea paniculata 'Little Quik Fire' / Little Quik Fire Hydrangea	Cont.	5 Gal.	19
Sr	Salix repens 'Bridal Rice' / Bridal Rice Creeping Willow	Cont.	3 Gal.	7
Vd	Viburnum dentatum 'Christom' TM / Blue Muffin Arrowwood Viburnum	Cont.	5 Gal.	23
EVERGREEN SHRUBS	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	QTY
Jhb	Juniperus horizontalis 'Blue Chip' / Blue Chip Juniper	Cont.	5 Gal.	13
Js	Juniperus sabina 'Blue Forest' / Blue Forest Juniper	Cont.	5 Gal.	7
Tm	Taxus x media 'Everlow' / Everlow Yew	Cont.	5 Gal.	11
Tom	Thuja occidentalis 'Hetz Midget' / Hetz Midget Arborvitae	Cont.	5 Gal.	8
Th	Thuja occidentalis 'Holmstrup' / Holmstrup Arborvitae	Cont.	7 Gal.	13
PERENNIALS	BOTANICAL / COMMON NAME	ROOT COND.	SIZE	QTY
ax	Allium x 'Summer Beauty' / Summer Beauty Allium	Cont.	4 In	29
am	Armonia x 'Blue Ice' / Blue Ice Bluestar	Cont.	1 Gal.	48
ca	Calamagrostis x acutiflora 'Karl Foerster' / Feather Reed Grass	Cont.	1 Gal.	74
nf	Nepeta x faassenii 'Walkers Low' / Walkers Low Catmint	Cont.	4 In	6
pa	Perovskia atriplicifolia / Russian Sage	Cont.	1 Gal.	23
rf	Rudbeckia fulgida 'Goldsturm' / Goldsturm Coneflower	Cont.	1 Gal.	86
sn	Salvia nemorosa 'Blue Hill' / Woodland Sage	Cont.	1 Gal.	26
ss	Schizachyrium scoparium / Little Bluestem Grass	Cont.	1 Gal.	44
sh	Sporobolus heterolepis / Prairie Dropseed	Cont.	1 Gal.	55

BASIN PLANTING & STONE SCHEDULE

	BIORETENTION MIX	2,335 sf
	Asclepias incarnata / Swamp Milkweed	170
	Carex blcknellii / Prairie Sedge	170
	Carex comosa / Bottlebrush Sedge	170
	Carex cristatella / Crested Oval Sedge	170
	Carex lurida / Lurid Sedge	170
	Coreopsis tripteris / Tall Coreopsis	170
	Elymus virginicus / Virginia Wild Rye	195
	Iris virginica / Blue Flag Iris	170
	Liatris spicata / Spike Gayfeather	170
	Lobelia cardinalis / Cardinal Flower	170
	Panicum virgatum / Switch Grass	195
	Rudbeckia triloba / Browneyed Susan	170
	Spartina pectinata / Prairie Cordgrass	170
	Symphoricarum novae-angliae / New England Aster	170
	WASHED STONE	1,047 sf
	NATIVE GRASS SLOPE MIX	459 sf
	Bouteloua curtipendula / Side Oats Grama	72
	Elymus canadensis / Canada Wild Rye	72
	Schizachyrium scoparium / Little Bluestem	168
	Sporobolus heterolepis / Prairie Dropseed	168

REVISIONS	NO.	DATE	REMARKS

DATE: 1-18-2022

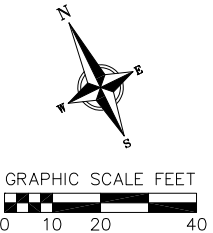
DRAFTER: SVIN

CHECKED: TSCH

PROJECT NO.: 200124

L2

NOT FOR CONSTRUCTION





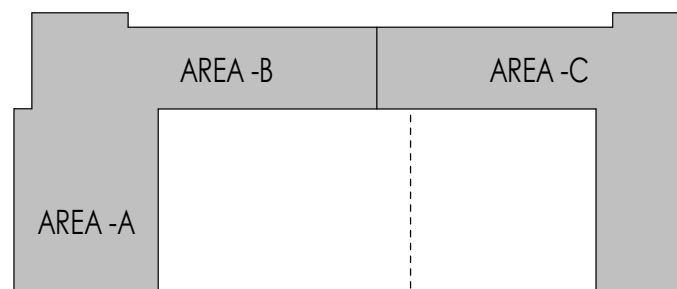
**JLA**  
ARCHITECTS

MADISON : MILWAUKEE  
jla-ap.com

JLA PROJECT NUMBER: 20-0225

OCHALLA MIXED USE  
DEVELOPMENT

S.I.P. SUBMITTAL SET



KEY PLAN

**PROGRESS DOCUMENTS**

These documents reflect progress and intent and may be subject to change, including additional detail. These are not final construction documents and should not be used for final bidding or construction-related purposes.

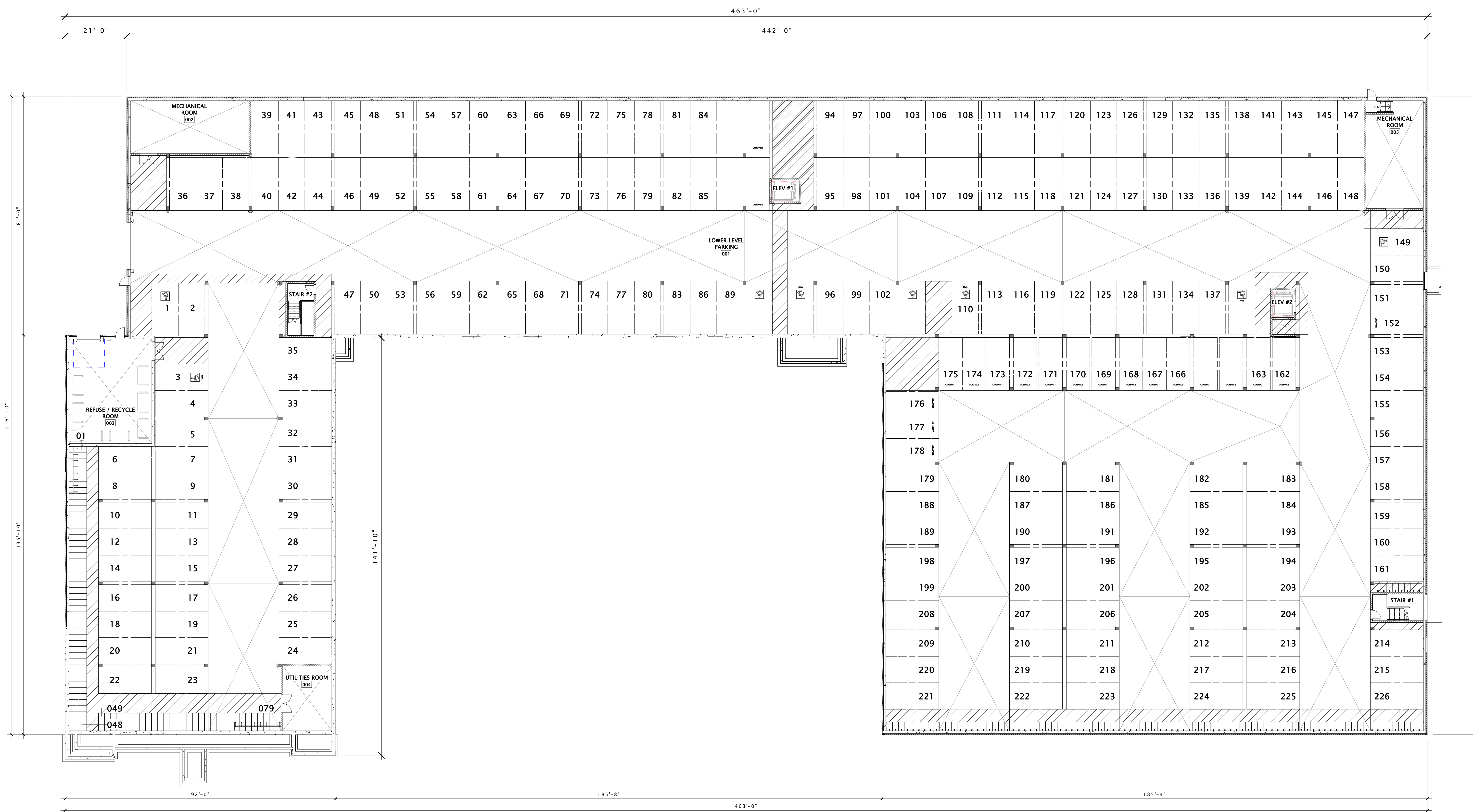
DATE OF ISSUANCE: JANUARY 18, 2022

REVISION SCHEDULE		
Mark	Description	Date

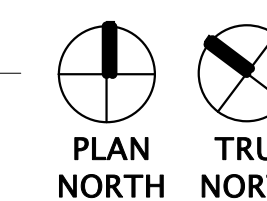
SHEET TITLE  
**OVERALL LOWER  
LEVEL PLAN**

SHEET NUMBER

**A100**



16 OVERALL LOWER LEVEL PLAN  
1/16" = 1'-0"





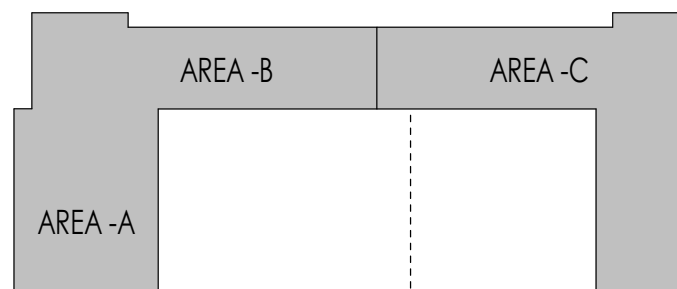
**JLA**  
ARCHITECTS

MADISON : MILWAUKEE  
jla-ap.com

JLA PROJECT NUMBER: 20-0225

OCHALLA MIXED USE  
DEVELOPMENT

S.I.P. SUBMITTAL SET



KEY PLAN

**PROGRESS DOCUMENTS**

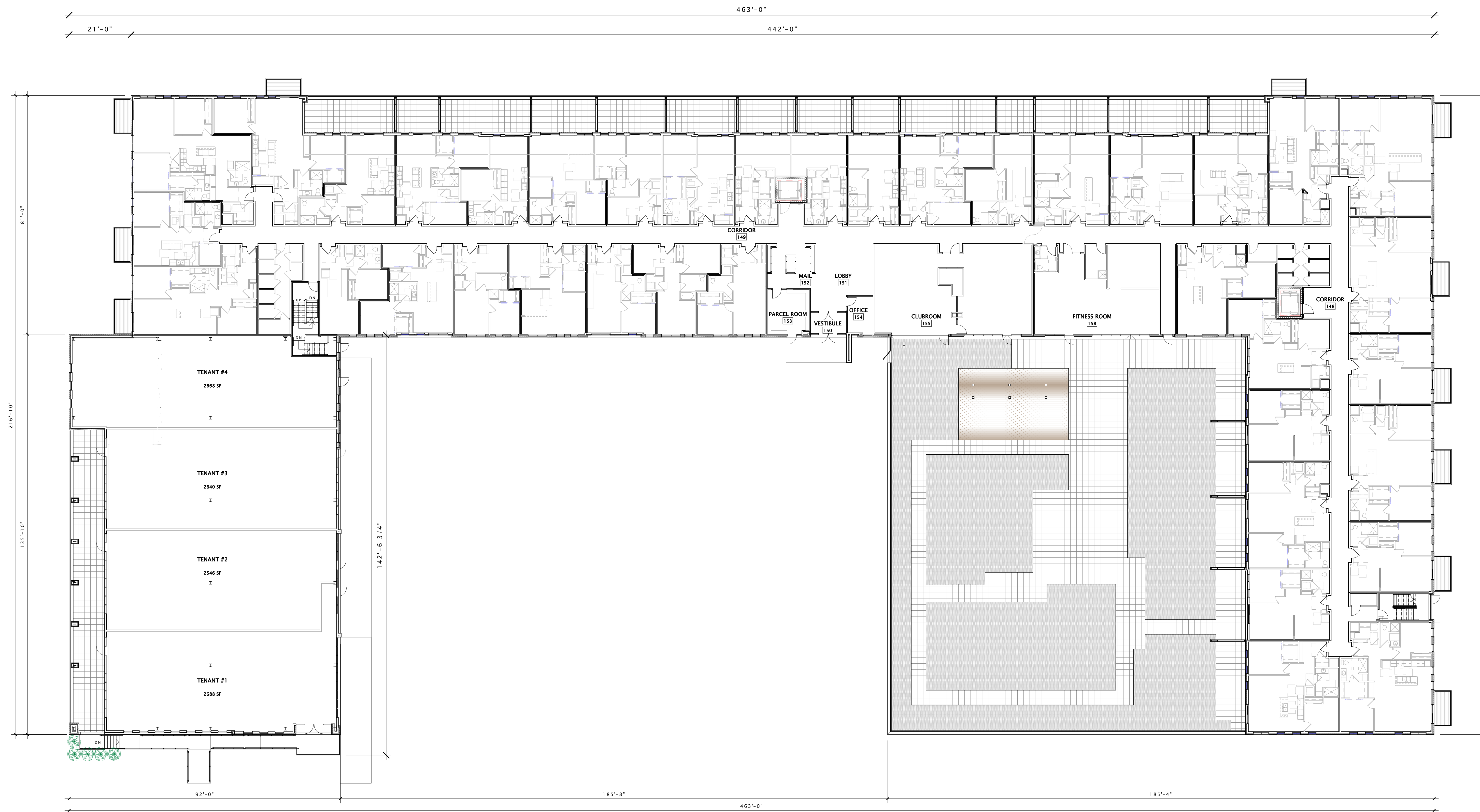
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DATE OF ISSUANCE: JANUARY 18, 2022

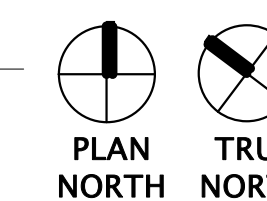
REVISION SCHEDULE		
Mark	Description	Date

SHEET TITLE  
**OVERALL FIRST  
FLOOR PLAN**

SHEET NUMBER  
**A101**



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





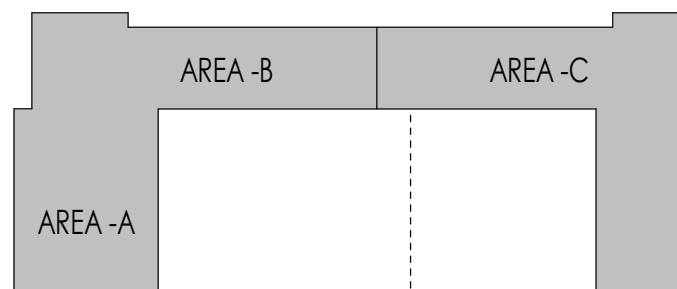
**JLA**  
ARCHITECTS

MADISON : MILWAUKEE  
jla-ap.com

JLA PROJECT NUMBER: 20-0225

OCHALLA MIXED USE  
DEVELOPMENT

S.I.P. SUBMITTAL SET



KEY PLAN

**PROGRESS DOCUMENTS**

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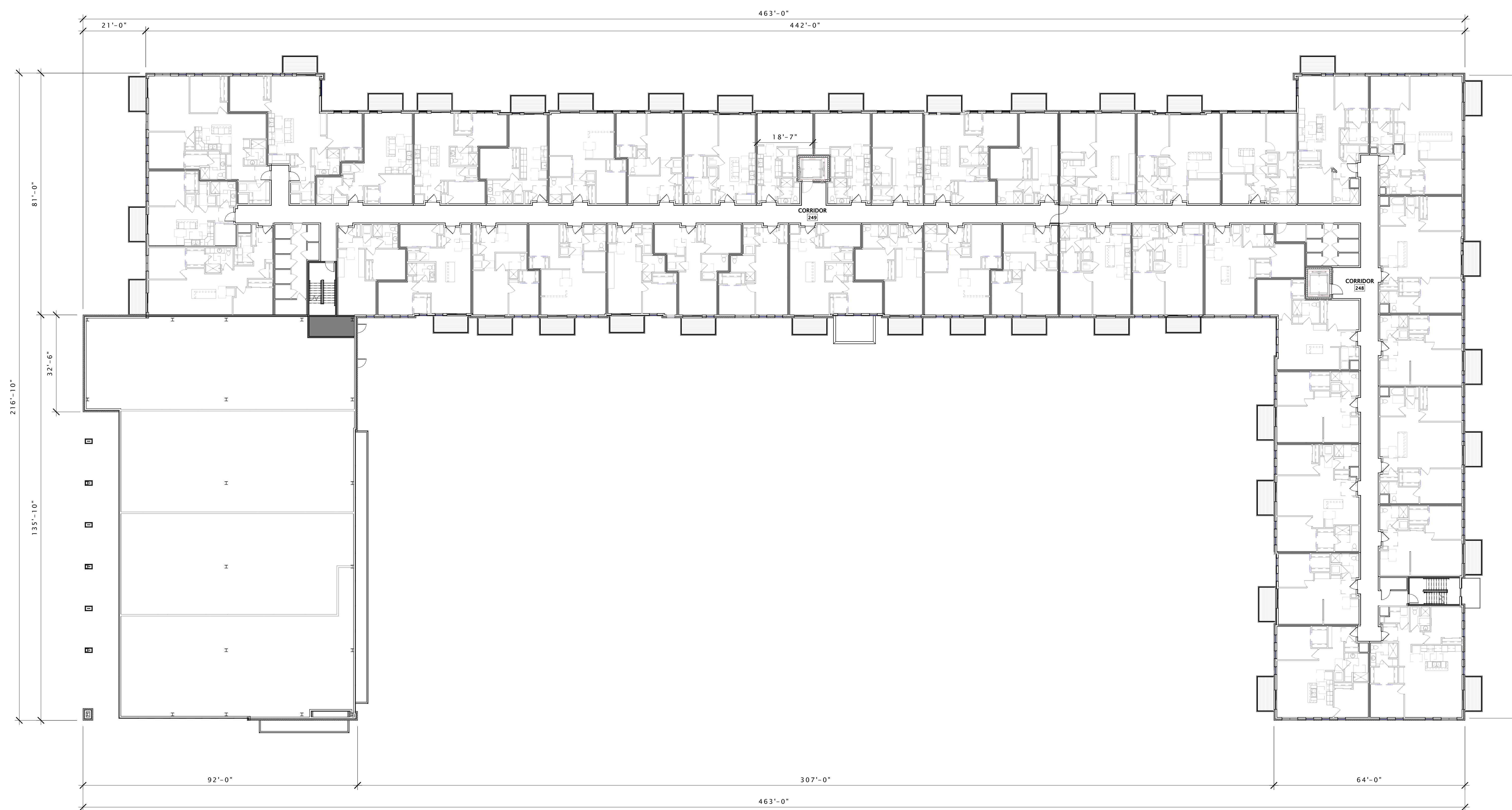
REVISION SCHEDULE		
Mark	Description	Date

SHEET TITLE

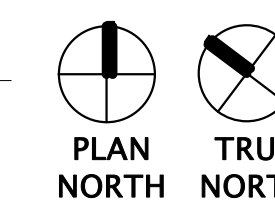
**OVERALL SECOND  
FLOOR PLAN**

SHEET NUMBER

**A102**



16 OVERALL SECOND FLOOR PLAN  
1/16" = 1'-0"





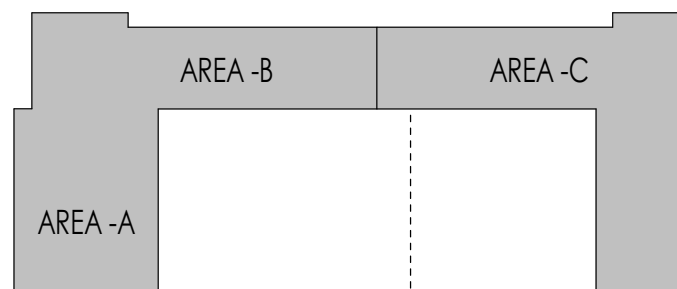
**JLA**  
ARCHITECTS

MADISON : MILWAUKEE  
jla-ap.com

JLA PROJECT NUMBER: 20-0225

OCHALLA MIXED USE  
DEVELOPMENT

S.I.P. SUBMITTAL SET



KEY PLAN

**PROGRESS DOCUMENTS**

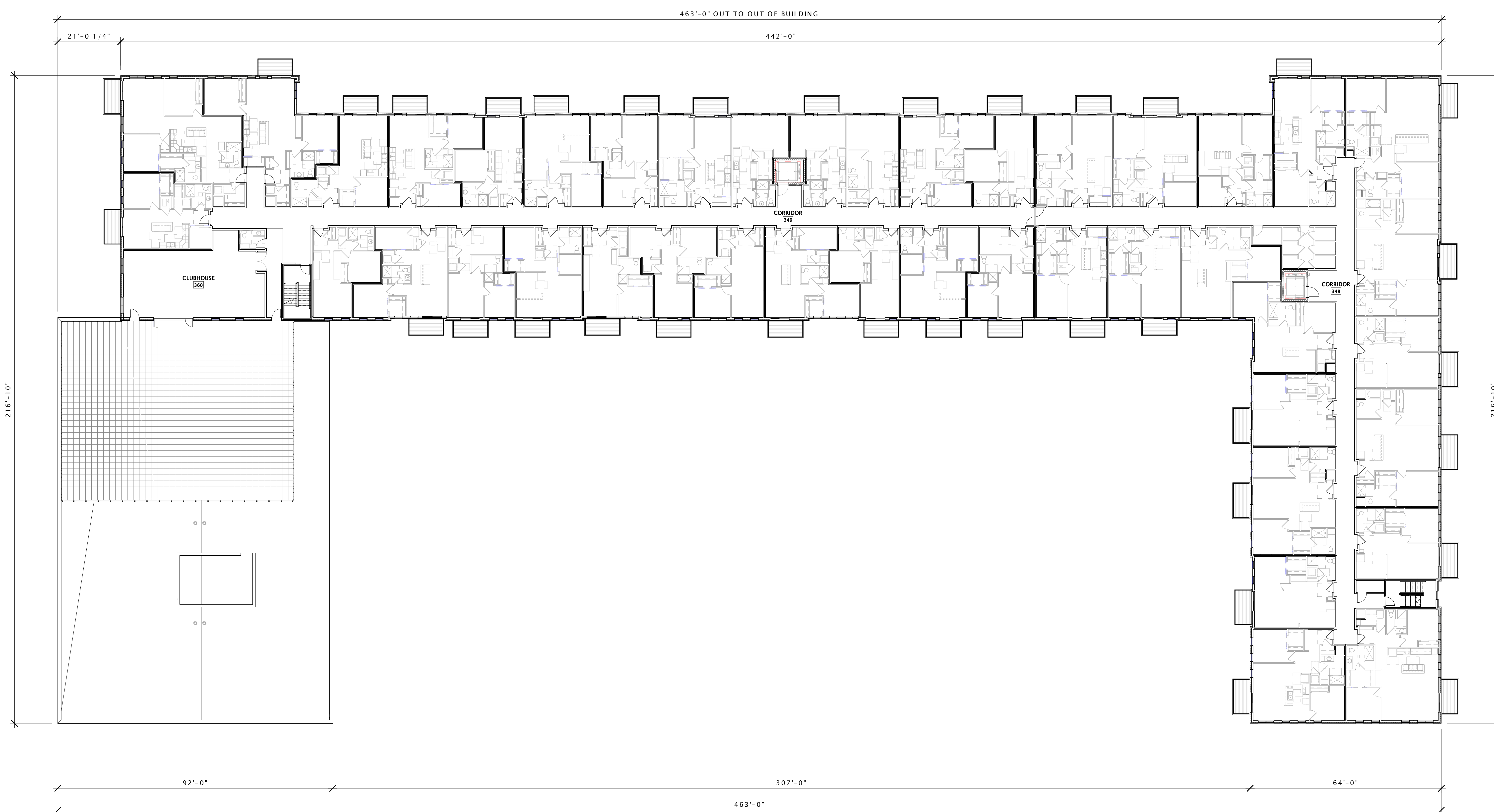
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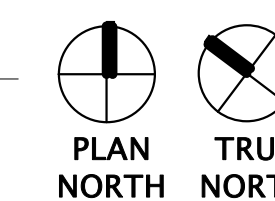
REVISION SCHEDULE		
Mark	Description	Date

SHEET TITLE  
**OVERALL THIRD  
FLOOR PLAN**

SHEET NUMBER  
**A103**



16 OVERALL THIRD FLOOR PLAN  
1/16" = 1'-0"





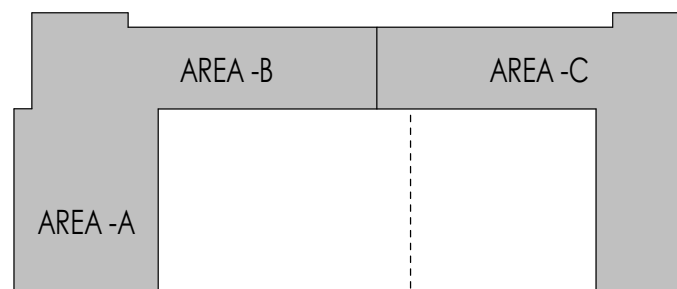
**JLA**  
ARCHITECTS

MADISON : MILWAUKEE  
jla-ap.com

JLA PROJECT NUMBER: 20-0225

OCHALLA MIXED USE  
DEVELOPMENT

S.I.P. SUBMITTAL SET



KEY PLAN 

**PROGRESS DOCUMENTS**

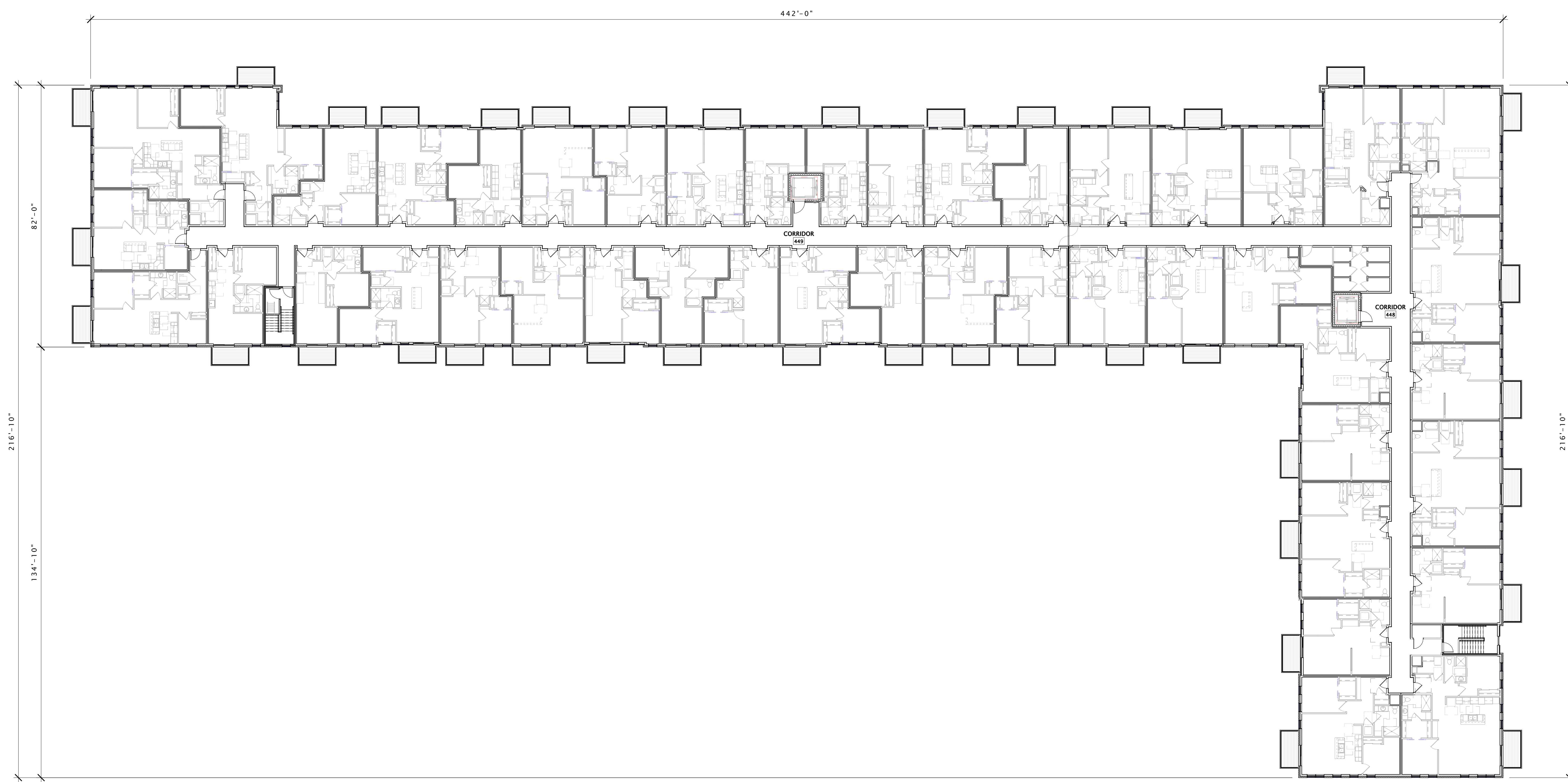
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DATE OF ISSUANCE JANUARY 18, 2022

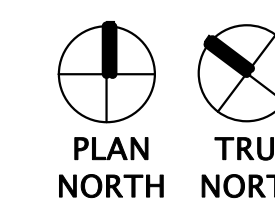
REVISION SCHEDULE		
Mark	Description	Date

SHEET TITLE  
**FOURTH FLOOR PLAN**

SHEET NUMBER  
**A104**



16 FOURTH FLOOR PLAN  
1/16" = 1'-0"





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ARCHITECTS

MADISON : MILWAUKEE  
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JLA PROJECT NUMBER: 20-0225

**NOTE: REFER TO SHEETS A201, A202, A203 & A204 FOR BUILDING MATERIALS**



6 OVERALL NORTH ELEVATION  
1/16" = 1'-0"



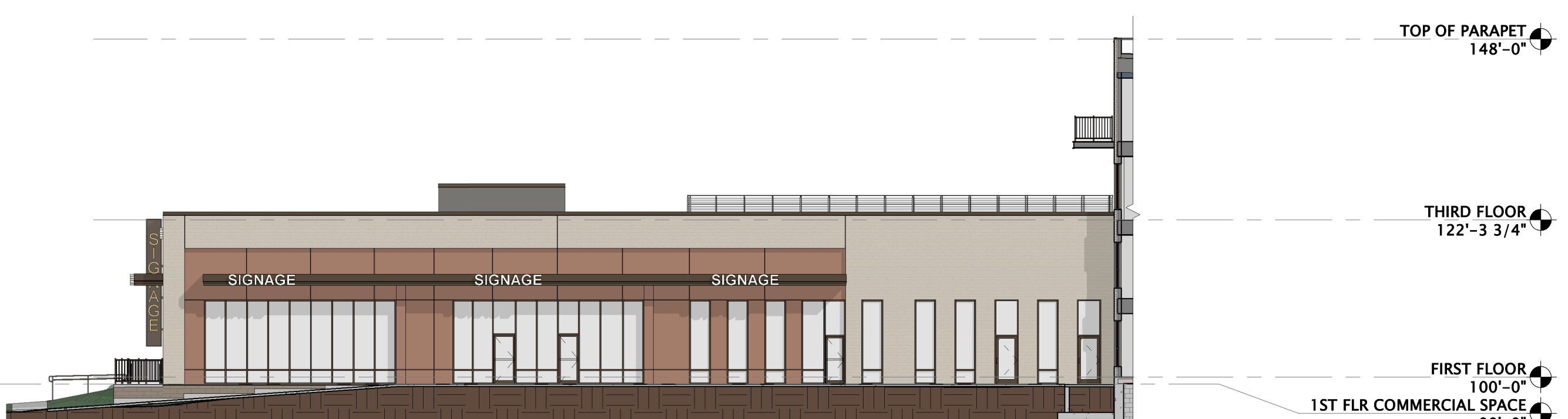
4 OVERALL NORTHEAST ELEVATION (PARKING LOT)  
1/16" = 1'-0"



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



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



3 OVERALL NORTHWEST ELEVATION (PARKING LOT)  
1/16" = 1'-0"



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

OCHALLA MIXED USE DEVELOPMENT

S.I.P. SUBMITTAL SET

PROGRESS DOCUMENTS

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REVISION SCHEDULE

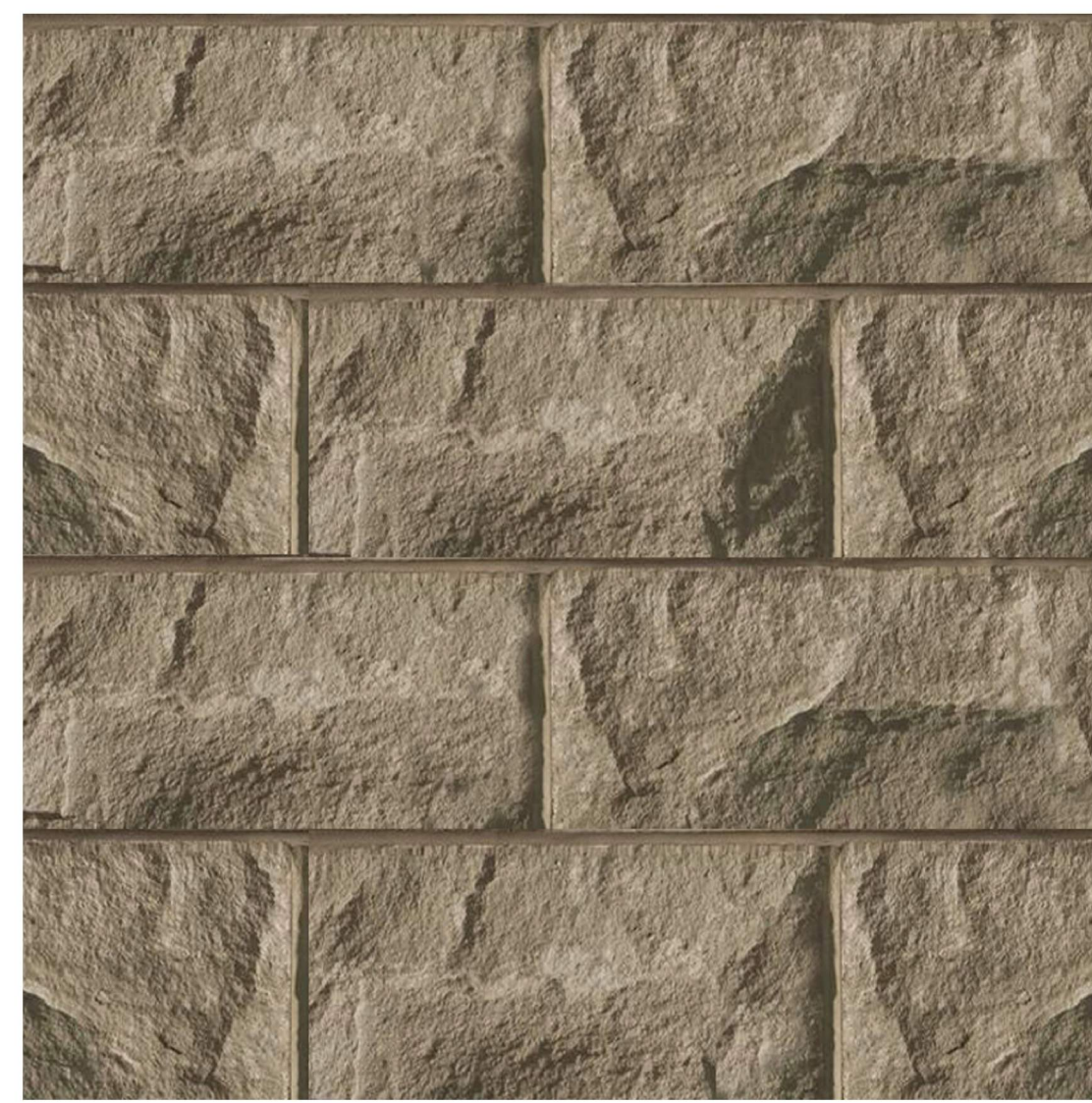
Mark	Description	Date

SHEET TITLE

OVERALL EXTERIOR ELEVATIONS

SHEET NUMBER

A200



MANUFACTURED STONE VENEER



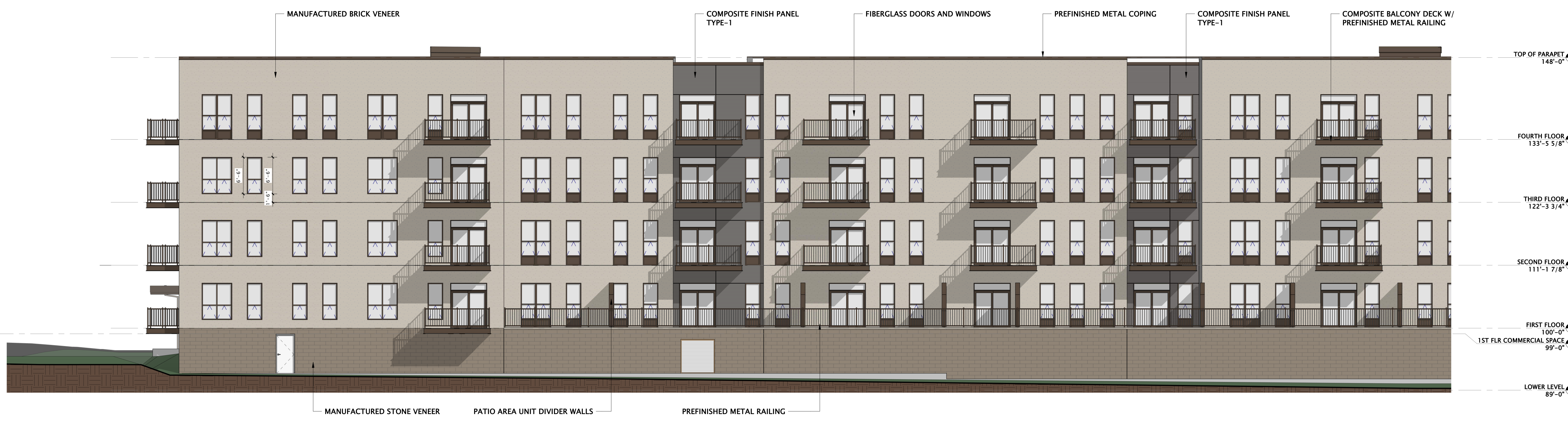
MANUFACTURED BRICK VENEER



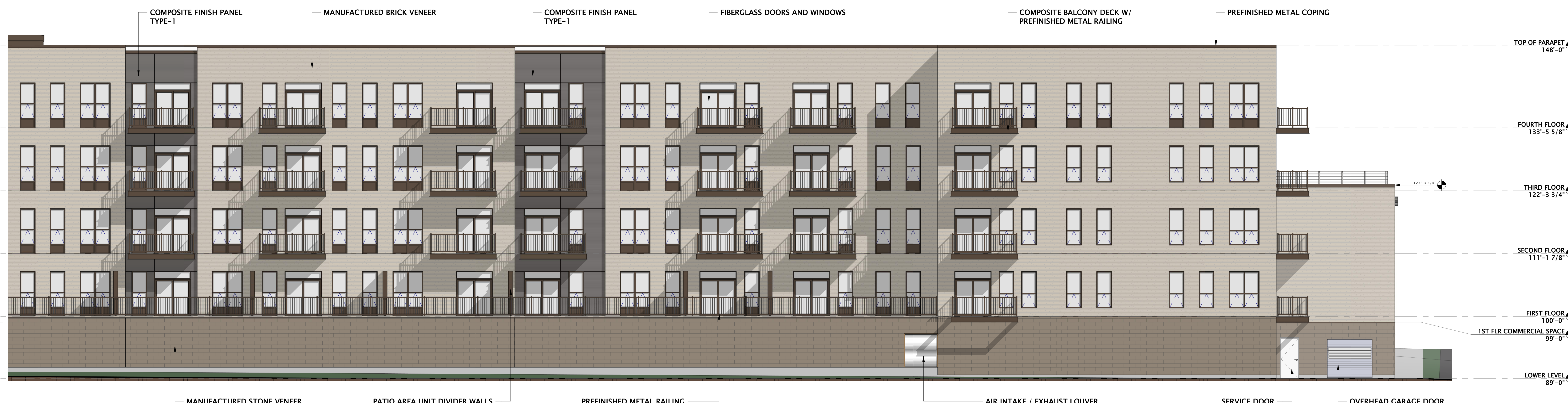
COMPOSITE FINISH PANEL TYPE-1



COMPOSITE FINISH PANEL TYPE-2



1 PARTIAL NORTH ELEVATION 1  
1/8" = 1'-0"



2 PARTIAL NORTH ELEVATION 2  
1/8" = 1'-0"



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OCHALLA MIXED USE DEVELOPMENT

S.I.P. SUBMITTAL SET

PROGRESS DOCUMENTS

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DATE OF ISSUANCE: JANUARY 18, 2022

REVISION SCHEDULE

Mark	Description	Date

SHEET TITLE

ENLARGED EXTERIOR ELEVATIONS

SHEET NUMBER

A201



MANUFACTURED STONE VENEER



MANUFACTURED BRICK VENEER



COMPOSITE FINISH PANEL TYPE-1



COMPOSITE FINISH PANEL TYPE-2



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**OCHALLA MIXED USE DEVELOPMENT**

S.I.P. SUBMITTAL SET

**PROGRESS DOCUMENTS**

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DATE OF ISSUANCE: JANUARY 18, 2022

**REVISION SCHEDULE**

Mark	Description	Date

SHEET TITLE

**ENLARGED EXTERIOR ELEVATIONS**

SHEET NUMBER

**A202**



MANUFACTURED STONE VENEER



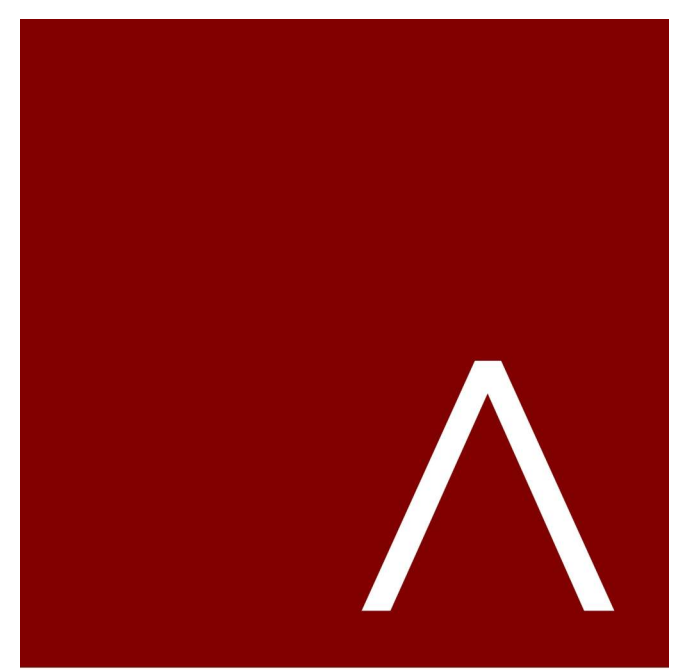
MANUFACTURED BRICK VENEER



COMPOSITE FINISH PANEL TYPE-1



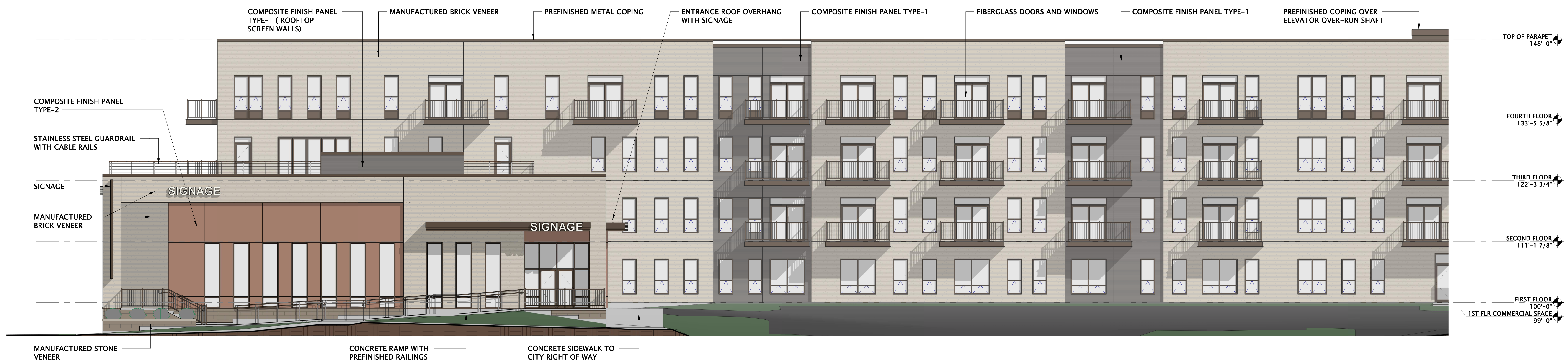
COMPOSITE FINISH PANEL TYPE-2



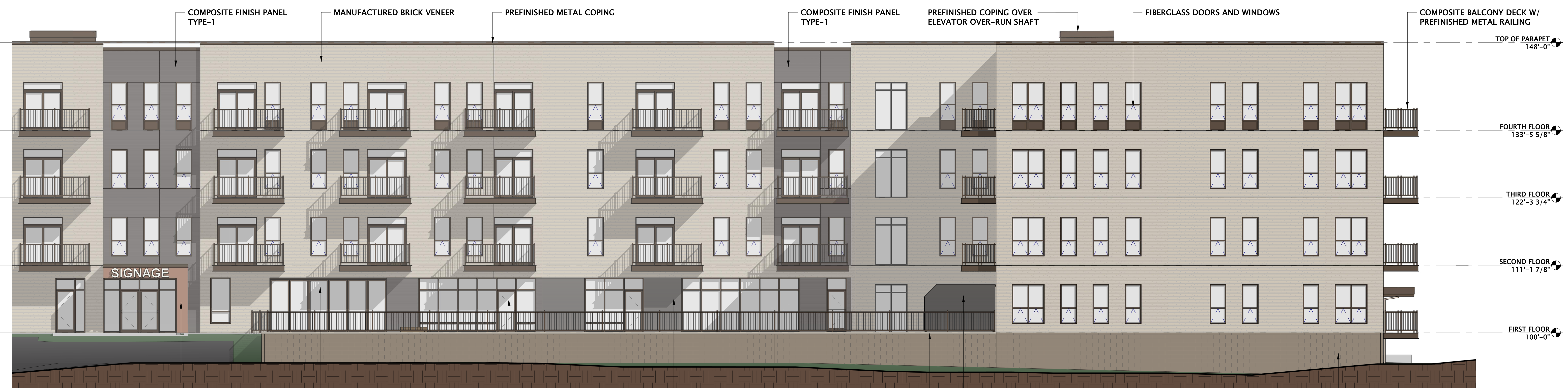
**JLA**  
ARCHITECTS

MADISON : MILWAUKEE  
jla-ap.com

JLA PROJECT NUMBER: 20-0225



1 PARTIAL SOUTH ELEVATION 1  
1/8" = 1'-0"



2 PARTIAL SOUTH ELEVATION 2  
1/8" = 1'-0"

OCHALLA MIXED USE DEVELOPMENT

S.I.P. SUBMITTAL SET

PROGRESS DOCUMENTS

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DATE OF ISSUANCE: JANUARY 18, 2022

REVISION SCHEDULE

Mark	Description	Date

SHEET TITLE

ENLARGED EXTERIOR ELEVATIONS

SHEET NUMBER

A203



**JLA**  
ARCHITECTS

**OCHALLA MIXED-USE DEVELOPMENT**  
DD EXTERIOR DESIGN REVIEW

JANUARY 18, 2022



**JLA**  
ARCHITECTS

**OCHALLA MIXED-USE DEVELOPMENT**  
DD EXTERIOR DESIGN REVIEW

JANUARY 18, 2022



**JLA**  
ARCHITECTS

## OCHALLA MIXED-USE DEVELOPMENT

DD EXTERIOR DESIGN REVIEW

JANUARY 18, 2022



**JLA**  
ARCHITECTS

**OCHALLA MIXED-USE DEVELOPMENT**  
DD EXTERIOR DESIGN REVIEW

JANUARY 18, 2022



MANUFACTURED STONE VENEER



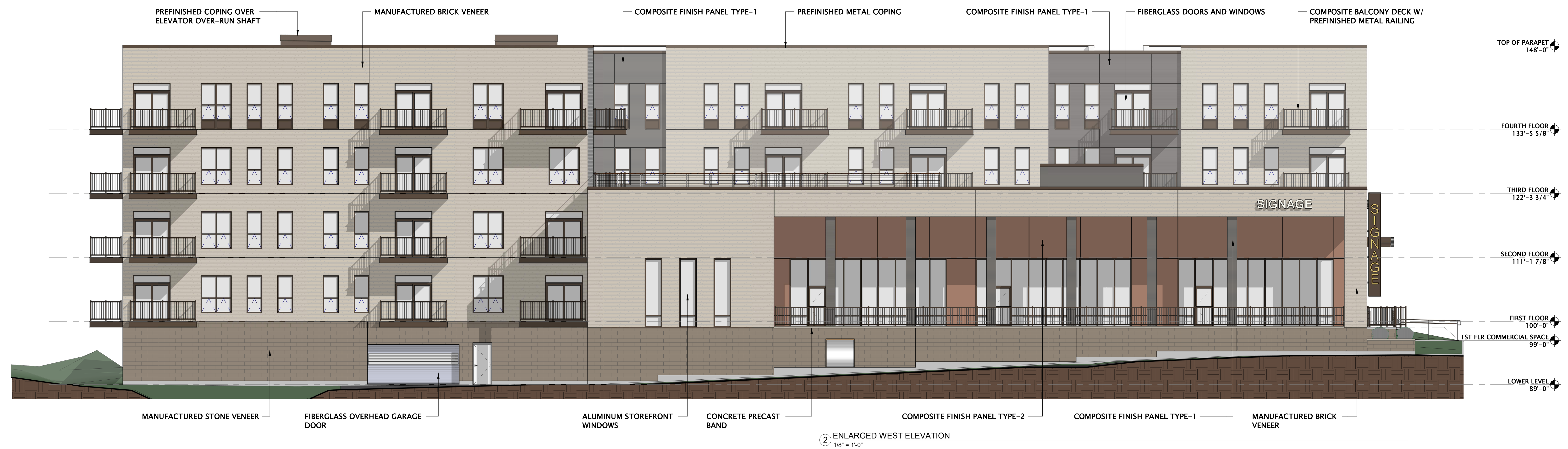
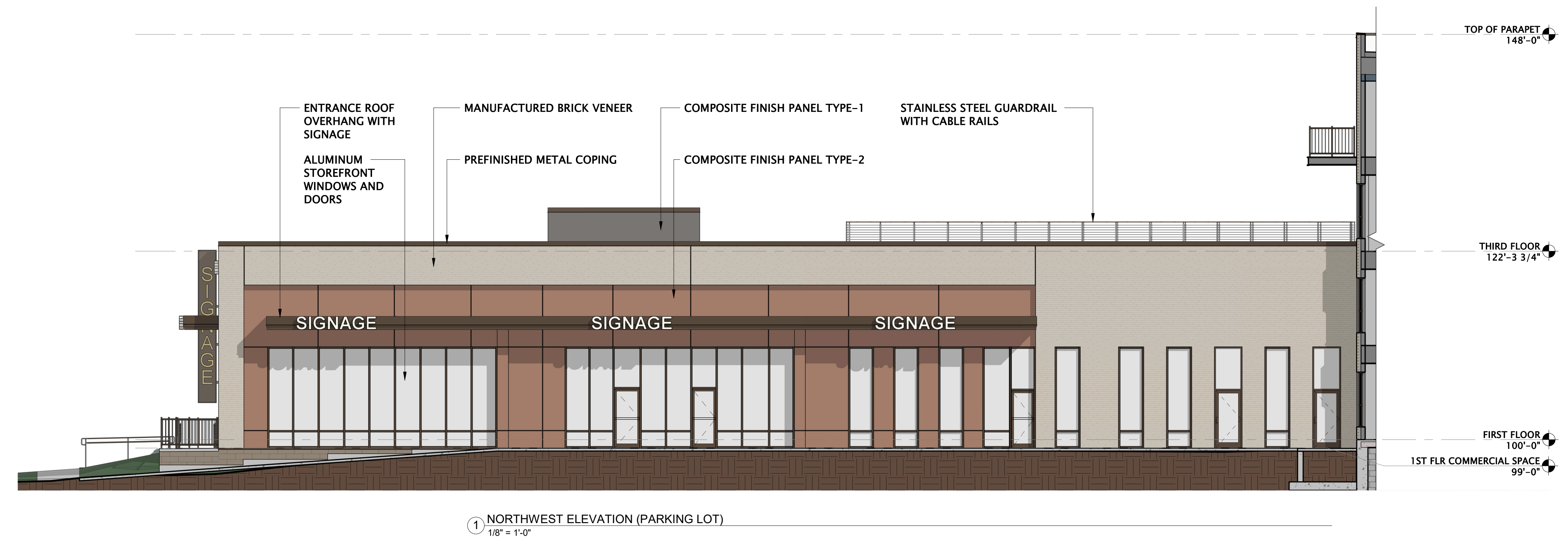
MANUFACTURED BRICK VENEER



COMPOSITE FINISH PANEL TYPE-1



COMPOSITE FINISH PANEL TYPE-2



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ARCHITECTS

MADISON : MILWAUKEE  
jla-ap.com

JLA PROJECT NUMBER: 20-0225

OCHALLA MIXED USE DEVELOPMENT

S.I.P. SUBMITTAL SET

PROGRESS DOCUMENTS

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DATE OF ISSUANCE: JANUARY 18, 2022

REVISION SCHEDULE

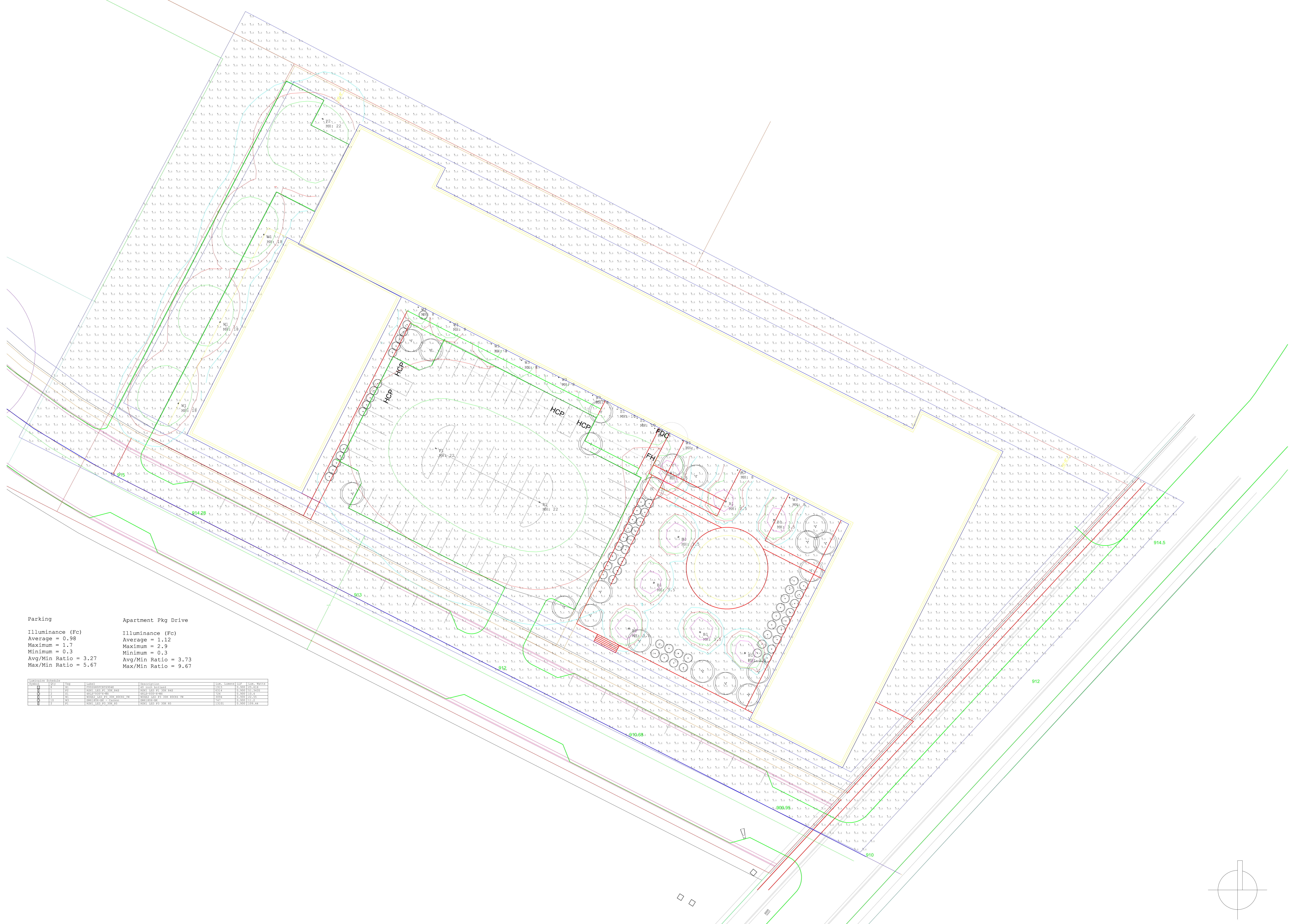
Mark	Description	Date

SHEET TITLE

ENLARGED EXTERIOR ELEVATIONS

SHEET NUMBER

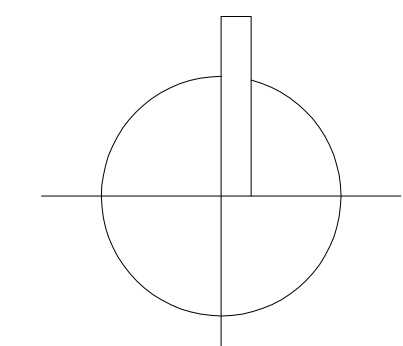
A204



Parking  
 Illuminance (Fc)  
 Average = 0.98  
 Maximum = 1.7  
 Minimum = 0.3  
 Avg/Min Ratio = 3.27  
 Max/Min Ratio = 5.67

Apartment Pkg Drive  
 Illuminance (Fc)  
 Average = 1.12  
 Maximum = 2.9  
 Minimum = 0.3  
 Avg/Min Ratio = 3.73  
 Max/Min Ratio = 9.67

Symbol	Color	Layer	Description	Lineweight	Color	Style	Layer
□	Red	PROP	PROPERTY	1/8"	Red	Solid	PROP
□	Blue	PROP	PROPERTY	1/8"	Blue	Solid	PROP
□	Green	PROP	PROPERTY	1/8"	Green	Solid	PROP
□	Yellow	PROP	PROPERTY	1/8"	Yellow	Solid	PROP
□	Purple	PROP	PROPERTY	1/8"	Purple	Solid	PROP
□	Black	PROP	PROPERTY	1/8"	Black	Solid	PROP



# FCBT690



<b>Date:</b>	<b>Approved:</b>
<b>Type:</b>	
<b>Fixture:</b>	
<b>Project:</b>	

**FCBT690** Exterior die-cast aluminum bollard with right angle head position tower. Available in 42" and 36" height. Designed and built to illuminate the ground and/or pathways safely without glare. **FCBT690** has an extremely wide-throw beam pattern covering 30'–35' wide and still measuring greater than 1 foot candle. It also has a forward throw of approximately 14 feet. Matches up with FCBT690S, 24" high version.

## SPECIFICATIONS

### PHYSICAL

<b>dimensions</b>	42"H or 36"H x 8"W x 9"D at top (3"D at base)
<b>weight</b>	12 lbs
<b>housing</b>	marine grade, corrosion resistant, heavy guage aluminum
<b>lens</b>	impact resistant, UV stabilized, clear, polycarbonate diffuser
<b>mounting</b>	heavy gauge base bracketing for bollard installation provides a unique mounting solution, so the tower body anchors flush to the ground without the appearance of a base plate, anchor bolts included (j-box by others)
<b>ingress protection</b>	IP66: dry, damp, or wet locations with extruded silicone gasket to seal out contaminants
<b>finish</b>	Six stage chemical iron phosphate conversion pre-treatment. Polyester powder coat finish, 18 µm Min., 5000hr salt spray test (ASTM B117) compliant with Florida / AAMA 2604 specification.

### PERFORMANCE

<b>color temperature</b>	2700K	3000K	3500K	4000K
<b>lumen output offerings</b>	479 lm	958 lm	1436 lm	1915 lm
<b>lifetime</b>	> 70,000 hours / L70 or better			
<b>color consistency</b>	3 SDCM / 85 CRI			
<b>operating temperature</b>	-49°F to 104°F (-45°C to 40°C)			
<b>junction temperature</b>	73°C @ T <sup>a</sup> 25°C			
<b>warranty</b>	5-Year limited warranty (refer to website for details)			

### ELECTRICAL

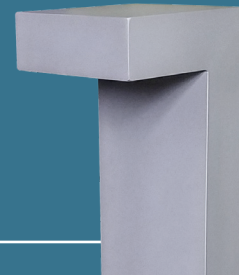
<b>input voltage</b>	Universal 120-277VAC   optional: 347 VAC (integral)   480 VAC (integral)
<b>power supply</b>	Integral Class II, electronic, high power factor > 94% @120V
<b>certification</b>	ETL/cETL Listed
<b>standards</b>	UL1598 / CSA C22.2 No. 250.0; UI 8750 / CSA C22.2 No. 250.13 / IES LM-79 / LM-80
<b>power consumption</b>	7W (479 lm) minimum, 26W (1915 lm) maximum
<b>dimming</b>	standard: 0-10V (10%)   optional: ELV (120V only) / DMX (integral)/DALI (integral)

**Z** **QUICK SHIP PRODUCT** visit [fclighting.com](http://fclighting.com)

Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions. FCC Series Cylinder Lights are engineered and produced in our Illinois manufacturing facility.

US Commercial Lighting Manufacturer Since 1982

**Specification Sheet**



# Ordering Information

## ORDERING INFORMATION

SERIES	VOLTAGE	HEIGHT	CCT	LUMENS	FINISH	OPTIONS	
<b>FCBT690</b>	<b>UNV</b> UNV 120V-277V	<b>42</b> 42"	<b>27K</b> 2700K	<b>5L</b> 479 lm (7W)	<b>BK</b> Black	<b>CD</b> Cane Detector	
	<b>347V</b> 347V AC ( <i>Integral</i> )	<b>36</b> 36"	<b>3K</b> 3000K	<b>10L</b> 958 lm (13W)	<b>BZ</b> Bronze	<b>LD</b> 0-10V Dimming (Standard)	
	<b>480V</b> 480V AC ( <i>Integral</i> )			<b>35K</b> 3500K	<b>14L</b> 1436 lm (20W)	<b>SL</b> Silver	<b>ELV</b> ELV Dimming ( <i>120 Only</i> )
				<b>4K</b> 4000K	<b>19L</b> 1915 lm (26W)	<b>WH</b> White	<b>DMX</b> DMX Dimming ( <i>Integral</i> )
					<b>CC</b> Custom Color	<b>DALI</b> DALI Dimming ( <i>Integral</i> )	
						<b>SP20</b> 20kV Surge Protector	
						<b>BBU</b> Battery Backup, Integral (Not w/ ELV)	
						<b>SP20-BBU</b> (2) 20kV Surge Protectors (1/LED driver, 1/BBU) and Battery Backup (Integral)	
						<b>HS</b> 180° House Shield	
						<b>HS2</b> 270° House Shield	

Consult Factory for other options and configurations.

To ensure you receive proper configurations for your lighting specifications, contact us directly about any unique application requirements. This may include but not be limited to lumen output, mounting needs, or electrical components.



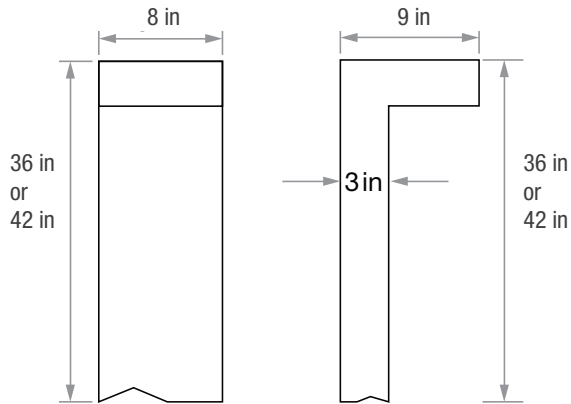
Due to continuous development and improvements, specifications are subject to change without notice. FC Lighting reserves the right to change lab test details or specifications without notice. Product use certifies agreement to FC Lighting terms and conditions. FCC Series Cylinder Lights are engineered and produced in our Illinois manufacturing facility.



## Physical

### PRODUCT DIMENSIONS - STANDARD PRODUCT

height	42"H or 36"H
width	8" W
depth	9" D top
depth	3" D base

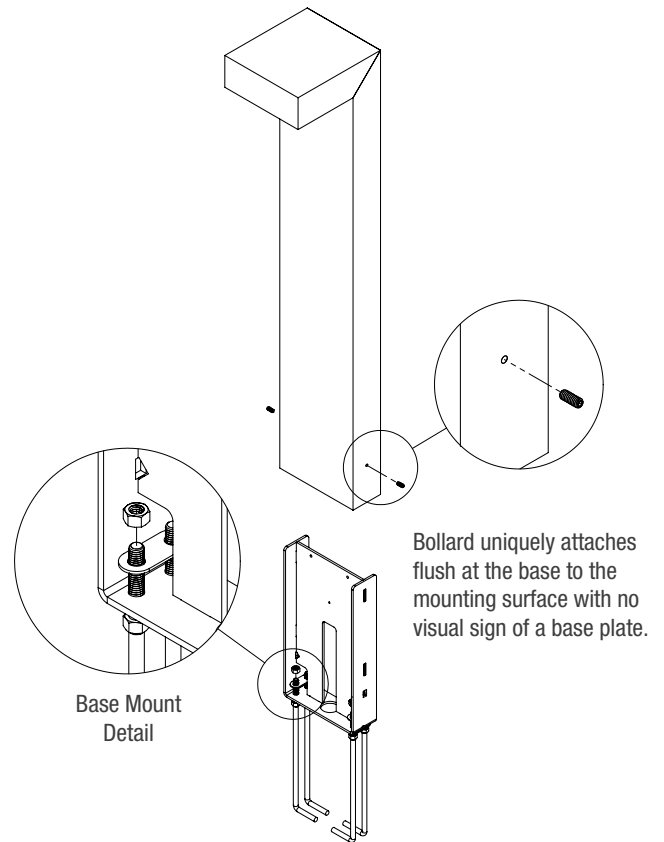
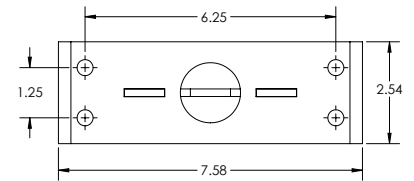


### MOUNTING

mounting plate depth	3" D
mounting plate width	8" W
anchor bolt size	3/8" Ø x 12" L x 2" Tang

Anchor Bolt Part #	94523B-4
Quantity Required	4 for each bollard

mounting hole pattern

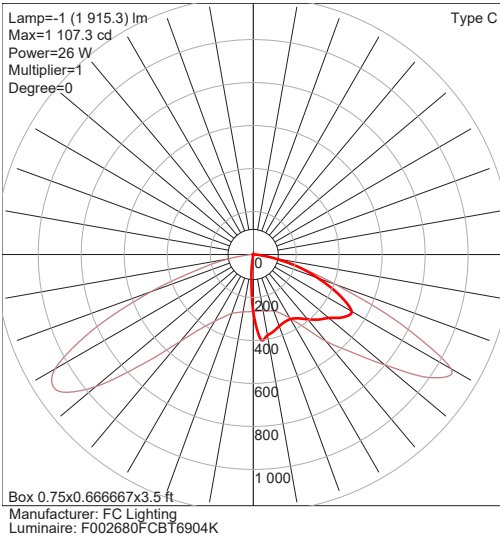


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# Photometry & Accessories

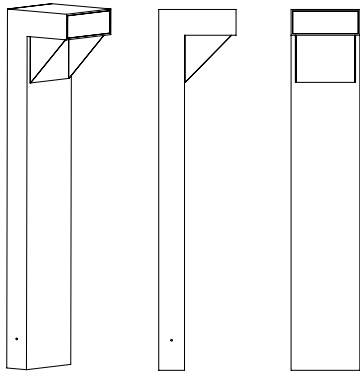
## OPTICAL DISTRIBUTION



## ACCESSORIES

FIND IES FILES ON FCLIGHTING.COM

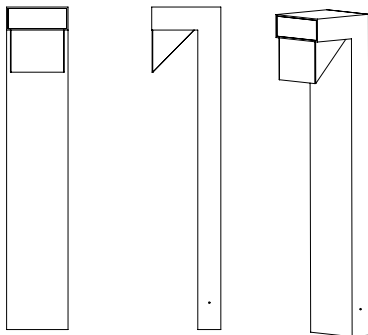
### HS - House Shield that blocks light out the sides



Use the 180° House Side Shield (HS) to protect beach side areas where fixtures are installed.

**HS Height:** 5.5" H

### HS2 - House Shield that blocks light out the front

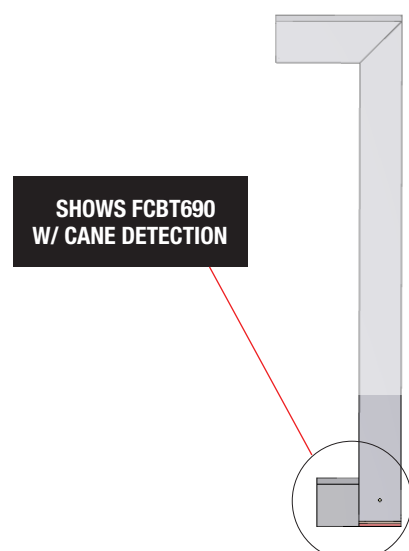


Use the (HS2) front House Shield to protect beach side areas where fixtures are installed.

**HS Height:** 5.5" H

### CD - Cane Detector

<b>foot depth</b>	add 3" D at column base
<b>foot width</b>	8" W



**SHOWS FCBT690 W/ CANE DETECTION**

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# RSX1 LED Area Luminaire

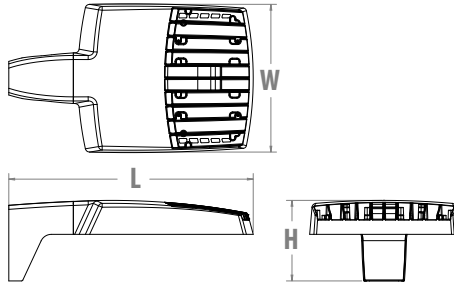


Catalog Number
Notes
Type

Hit the Tab key or mouse over the page to see all interactive elements.

## Specifications

<b>EPA (ft<sup>2</sup>@0°):</b>	0.57 ft <sup>2</sup> (0.05 m <sup>2</sup> )
<b>Length:</b>	21.8" (55.4 cm) (SPA mount)
<b>Width:</b>	13.3" (33.8 cm)
<b>Height:</b>	3.0" (7.6 cm) Main Body 7.2" (18.4 cm) Arm
<b>Weight: (SPA mount):</b>	22.0 lbs (10.0 kg)



## Introduction

The new RSX LED Area family delivers maximum value by providing significant energy savings, long life and outstanding photometric performance at an affordable price. The RSX1 delivers 7,000 to 17,000 lumens allowing it to replace 70W to 400W HID luminaires.

The RSX features an integral universal mounting mechanism that allows the luminaire to be mounted on most existing drill hole patterns. This "no-drill" solution provides significant labor savings. An easy-access door on the bottom of mounting arm allows for wiring without opening the electrical compartment. A mast arm adaptor, adjustable integral slipfitter and other mounting configurations are available.

## Ordering Information

**EXAMPLE: RSX1 LED P4 40K R3 MVOLT SPA DDBXD**

Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX1 LED	P1 P2 P3 P4	30K 3000K 40K 4000K 50K 5000K	R2 Type 2 Wide R3 Type 3 Wide R3S Type 3 Short R4 Type 4 Wide R4S Type 4 Short R5 Type 5 Wide <sup>1</sup> R5S Type 5 Short <sup>1</sup> AFR Automotive Front Row AFRR90 Automotive Front Row Right Rotated AFRL90 Automotive Front Row Left Rotated	MVOLT (120V-277V) <sup>2</sup> HVOLT (347V-480V) <sup>3</sup> XVOLT (277V-480V) <sup>4</sup> <b>(use specific voltage for options as noted)</b> 120 <sup>3</sup> 277 <sup>5</sup> 208 <sup>3</sup> 347 <sup>5</sup> 240 <sup>3</sup> 480 <sup>5</sup>	SPA Square pole mounting (3.0" min. SQ pole for 1 at 90°, 3.5" min. SQ pole for 2, 3, 4 at 90°) RPA Round pole mounting (3.2" min. dia. RND pole for 2, 3, 4 at 90°, 3.0" min. dia. RND pole for 1 at 90°, 2 at 180°, 3 at 120°) MA Mast arm adaptor (fits 2-3/8" OD horizontal tenon) IS Adjustable slipfitter (fits 2-3/8" OD tenon) <sup>6</sup> WBA Wall bracket <sup>1</sup> WBASC Wall bracket with surface conduit box AASP Adjustable tilt arm square pole mounting <sup>6</sup> AARP Adjustable tilt arm round pole mounting <sup>6</sup> AAWB Adjustable tilt arm with wall bracket <sup>6</sup> AAWSC Adjustable tilt arm wall bracket and surface conduit box <sup>6</sup>

Options	Finish
<p><b>Shipped Installed</b></p> <p>HS House-side shield<sup>7</sup></p> <p>PE Photocontrol, button style<sup>8,9</sup></p> <p>PEX Photocontrol external threaded, adjustable<sup>9,10</sup></p> <p>PER7 Seven-wire twist-lock receptacle only (no controls)<sup>9,11,12,13</sup></p> <p>CE34 Conduit entry 3/4" NPT (Qty 2)</p> <p>SF Single fuse (120, 277, 347)<sup>5</sup></p> <p>DF Double fuse (208, 240, 480)<sup>5</sup></p> <p>SPD20KV 20KV Surge pack (10KV standard)</p> <p>FAO Field adjustable output<sup>9,13</sup></p> <p>DMG 0-10V dimming extend out back of housing for external control (control ordered separate)<sup>9,13</sup></p>	<p>DDBXD Dark Bronze</p> <p>DBLXD Black</p> <p>DNAXD Natural Aluminum</p> <p>DWHXD White</p> <p>DDBTXD Textured Dark Bronze</p> <p>DBLTXD Textured Black</p> <p>DNATXD Textured Natural Aluminum</p> <p>DWHGXD Textured White</p>
<p><b>Shipped Installed</b></p> <p><b>*Standalone and Networked Sensors/Controls (factory default settings, see table page 9)</b></p> <p>NLTAIR2 nLight AIR generation 2<sup>13,14,15</sup></p> <p>PIRHN Networked, Bi-Level motion/ambient sensor (for use with NLTAIR2)<sup>13,15,16</sup></p> <p>BAA Buy America(n) Act Compliant</p> <p><b>*Note: PIRHN with nLight Air can be used as a standalone or networked solution. Sensor coverage pattern is affected when luminaire is tilted.</b></p> <p><b>Shipped Separately (requires some field assembly)</b></p> <p>EGS External glare shield<sup>7</sup></p> <p>EGFV External glare full visor (360° around light aperture)<sup>7</sup></p> <p>BS Bird spikes<sup>17</sup></p>	



## Ordering Information

### Accessories

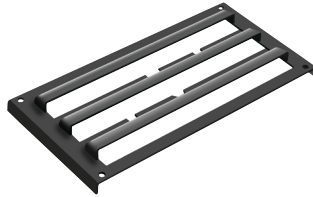
Ordered and shipped separately.

RSX1HS	RSX1 House side shield (includes 1 shield)
RSX1HSAFRUR	RSX1 House side shield for AFR rotated optics (includes 1 shield)
RSX1EGS (FINISH) U	External glare shield (specify finish)
RSX1EGFV (FINISH) U	External glare full visor (specify finish)
RSXRPA (FINISH) U	RSX Universal round pole adaptor plate (specify finish)
RSXWBA (FINISH) U	RSX WBA wall bracket (specify finish) <sup>1</sup>
RSXSCB (FINISH) U	RSX Surface conduit box (specify finish, for use with WBA, WBA not included)
DLL127F 1.5 JU	Photocell -SSL twist-lock (120-277V) <sup>18</sup>
DLL347F 1.5 CUL JU	Photocell -SSL twist-lock (347V) <sup>18</sup>
DLL480F 1.5 CUL JU	Photocell -SSL twist-lock (480V) <sup>18</sup>
DSHORT SBK U	Shorting cap <sup>18</sup>

### NOTES

- 1 Any Type 5 distribution, is not available with WBA.
- 2 MVOLT driver operates on any line voltage from 120-277V (50/60 Hz).
- 3 HVOLT driver operates on any line voltage from 347-480V (50/60 Hz).
- 4 XVOLT driver not available with P1 or P2. XVOLT driver operates on any line voltage from 277V-480V (50/60 Hz). XVOLT not available with fusing (SF or DF) and not available with PE or PEX.
- 5 Single fuse (SF) requires 120V, 277V or 347V. Double fuse (DF) requires 208V, 240V or 480V.
- 6 Maximum tilt is 90° above horizontal.
- 7 It may be ordered as an accessory.
- 8 Requires MVOLT or 347V.
- 9 Not available in combination with other light sensing control options (following options cannot be combined: PE, PEX, PER7, FAO, DMG, PIRHN).
- 10 Requires 120V, 208V, 240V or 277V.
- 11 Twistlock photocell ordered and shipped as a separate line item from Acuity Brands Controls. See accessories. Shorting Cap included. Dimming leads capped for future use.
- 12 For units with option PER7, the mounting must be restricted to +/- 45° from horizontal aim per ANSI C136.10-2010.
- 13 Two or more of the following options cannot be combined including DMG, PER7, FAO and PIRHN.
- 14 Must be ordered with PIRHN.
- 15 Requires MVOLT or HVOLT.
- 16 Must be ordered with NLTAIR2. For additional information on PIRHN visit [here](#).
- 17 Must be ordered with fixture for factory pre-drilling.
- 18 Requires luminaire to be specified with PER7 option. Ordered and shipped as a separate line item from Acuity Brands Controls.

## External Shields



House Side Shield



External Glare Shield

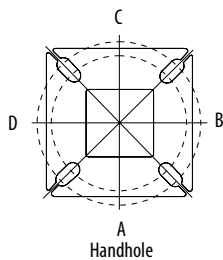


External 360 Full Visor

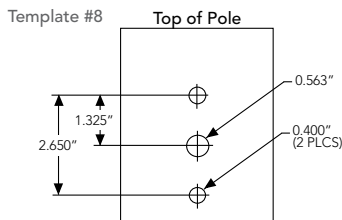
## Pole/Mounting Information

Accessories including bullhorns, cross arms and other adapters are available under the accessories tab at Lithonia's Outdoor Poles and Arms product page. Click here to visit [Accessories](#).

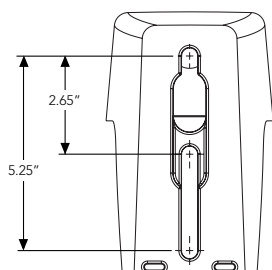
### HANDHOLE ORIENTATION



### RSX POLE DRILLING



### RSX STANDARD ARM & ADJUSTABLE ARM



### Round Tenon Mount - Pole Top Slipfitters

Tenon O.D.	RSX Mounting	Single	2 @ 180°	2 @ 90°	3 @ 120°	3 @ 90°	4 @ 90°
2 - 3/8"	RPA, AARP	AS3-5 190	AS3-5 280	AS3-5 290	AS3-5 320	AS3-5 390	AS3-5 490
2 - 7/8"	RPA, AARP	AST25-190	AST25-280	AST25-290	AST25-320	AST25-390	AST25-490
4"	RPA, AARP	AST35-190	AST35-280	AST35-290	AST35-320	AST35-390	AST35-490

### Drill/Side Location by Configuration Type

Drilling Template	Mounting Option	Single	2 @ 180	2 @ 90	3 @ 120	3 @ 90	4 @ 90
	Head Location	Side B	Side B & D	Side B & C	Round Pole Only	Side B, C & D	Side A, B, C & D
#8	Drill Nomenclature	DM19AS	DM28AS	DM29AS	DM32AS	DM39AS	DM49AS

### RSX1 - Luminaire EPA

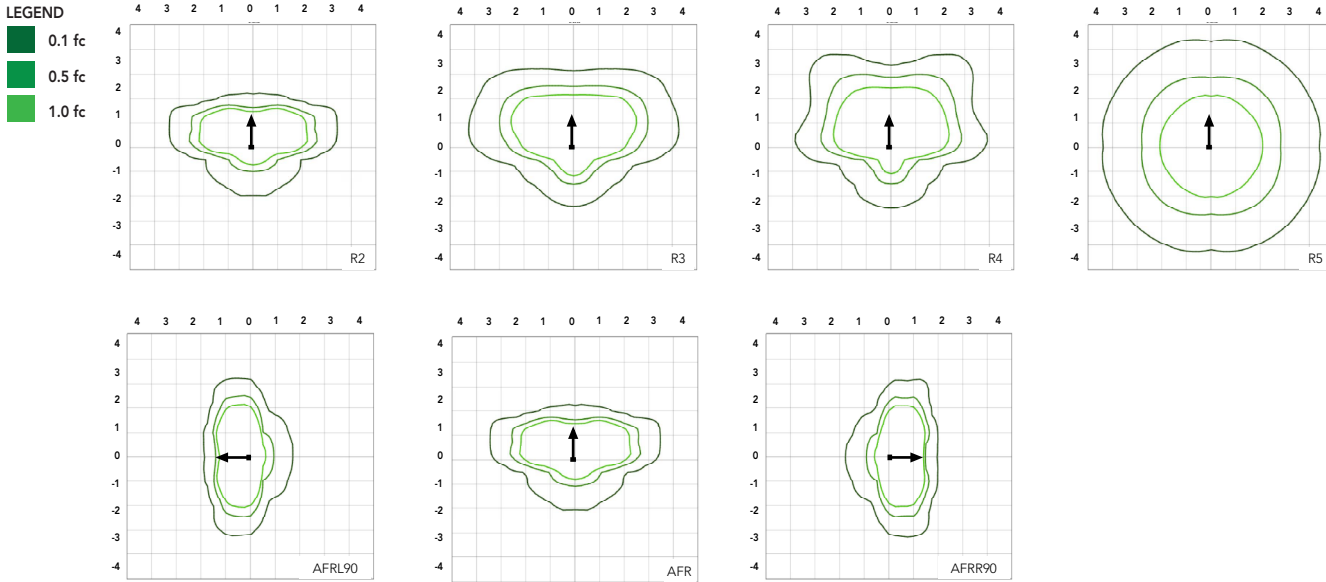
\*Includes luminaire and integral mounting arm. Other tenons, arms, brackets or other accessories are not included in this EPA data.

Fixture Quantity & Mounting Configuration	Single	2 @ 90	2 @ 180	3 @ 90	3 @ 120	4 @ 90	2 Side by Side	3 Side by Side	4 Side by Side	
SPA - Square Pole Adaptor	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26	
RPA - Round Pole Adaptor	0.62	1.08	1.15	1.62	1.46	2.13	1.36	1.8	2.36	
MA - Mast Arm Adaptor	0.49	0.95	0.89	1.36	1.2	1.87	1.23	1.54	2.1	
IS - Integral Slipfitter AASP/AARP - Adjustable Arm Square/Round Pole	0°	0.57	1.03	1.05	1.52	1.36	2.03	1.31	1.7	2.26
	10°	0.68	1.34	1.33	2	1.74	2.64	1.35	2.03	2.71
	20°	0.87	1.71	1.73	2.56	2.26	3.42	1.75	2.62	3.49
	30°	1.24	2.19	2.3	3.21	2.87	4.36	2.49	3.73	4.97
	40°	1.81	2.68	2.98	3.85	3.68	5.30	3.62	5.43	7.24
	45°	2.11	2.92	3.44	4.2	4.08	5.77	4.22	6.33	8.44
	50°	2.31	3.17	3.72	4.52	4.44	6.26	4.62	6.94	9.25
	60°	2.71	3.66	4.38	5.21	5.15	7.24	5.43	8.14	10.86
	70°	2.78	3.98	4.54	5.67	5.47	7.91	5.52	8.27	11.03
	80°	2.76	4.18	4.62	5.97	5.76	8.31	5.51	8.27	11.03
90°	2.73	4.25	4.64	6.11	5.91	8.47	5.45	8.18	10.97	

# Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit Lithonia Lighting's [RSX Area homepage](#).

Isofootcandle plots for the RSX1 LED P4 40K. Distances are in units of mounting height (20').



## Performance Data

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-50°C (32-122°F).

Ambient	Ambient	Lumen Multiplier
0°C	32°F	1.05
5°C	41°F	1.04
10°C	50°F	1.03
15°C	59°F	1.02
20°C	68°F	1.01
25°C	77°F	1.00
30°C	86°F	0.99
35°C	95°F	0.98
40°C	104°F	0.97
45°C	113°F	0.96
50°C	122°F	0.95

### Electrical Load

Performance Package	System Watts (W)	Current (A)					
		120V	208V	240V	277V	347V	480V
P1	51W	0.42	0.25	0.21	0.19	0.14	0.11
P2	72W	0.60	0.35	0.30	0.26	0.21	0.15
P3	109W	0.91	0.52	0.45	0.39	0.31	0.23
P4	133W	1.11	0.64	0.55	0.48	0.38	0.27

### Projected LED Lumen Maintenance

Operating Hours	50,000	75,000	100,000
Lumen Maintenance Factor	>0.97	>0.95	>0.92

Values calculated according to IESNA TM-21-11 methodology and valid up to 40°C.



COMMERCIAL OUTDOOR

Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

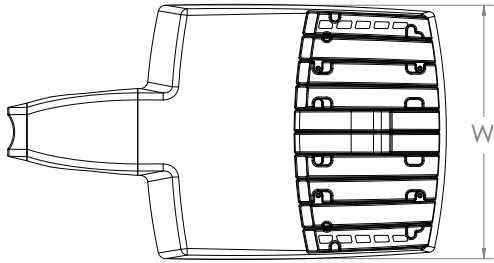
Performance Package	System Watts	Distribution Type	30K (3000K, 70 CRI)					40K (4000K, 70 CRI)					50K (5000K, 70 CRI)				
			Lumens	B	U	G	LPW	Lumens	B	U	G	LPW	Lumens	B	U	G	LPW
P1	51W	R2	6,482	1	0	1	126	7,121	1	0	1	139	7,121	1	0	1	139
		R3	6,459	1	0	2	127	7,096	1	0	2	139	7,096	1	0	2	139
		R3S	6,631	1	0	1	129	7,286	1	0	2	142	7,286	1	0	2	142
		R4	6,543	1	0	2	128	7,189	1	0	2	141	7,189	1	0	2	141
		R4S	6,313	1	0	1	124	6,936	1	0	1	136	6,936	1	0	1	136
		R5	6,631	3	0	2	130	7,286	3	0	2	143	7,286	3	0	2	143
		R5S	6,807	3	0	1	133	7,479	3	0	1	147	7,479	3	0	1	147
		AFR	6,473	1	0	1	127	7,112	1	0	1	139	7,112	1	0	1	139
		AFRR90	6,535	2	0	2	127	7,179	2	0	2	140	7,179	2	0	2	140
		AFRL90	6,562	2	0	1	128	7,210	2	0	2	140	7,210	2	0	2	140
P2	72W	R2	8,991	2	0	1	123	9,878	2	0	1	135	9,878	2	0	1	135
		R3	8,959	2	0	2	124	9,843	2	0	2	137	9,843	2	0	2	137
		R3S	9,198	2	0	2	126	10,106	2	0	2	139	10,106	2	0	2	139
		R4	9,077	2	0	2	126	9,972	2	0	2	139	9,972	2	0	2	139
		R4S	8,757	1	0	2	122	9,622	2	0	2	134	9,622	2	0	2	134
		R5	9,198	4	0	2	128	10,106	4	0	2	140	10,106	4	0	2	140
		R5S	9,443	3	0	1	131	10,374	3	0	1	144	10,374	3	0	1	144
		AFR	8,979	2	0	1	125	9,865	2	0	1	137	9,865	2	0	1	137
		AFRR90	9,064	3	0	2	124	9,959	3	0	2	137	9,959	3	0	2	137
		AFRL90	9,102	3	0	2	125	10,001	3	0	2	137	10,001	3	0	2	137
P3	109W	R2	12,808	2	0	1	117	14,072	2	0	2	129	14,072	2	0	2	129
		R3	12,763	2	0	2	117	14,023	2	0	2	129	14,023	2	0	2	129
		R3S	13,104	2	0	2	120	14,397	2	0	2	132	14,397	2	0	2	132
		R4	12,930	2	0	2	119	14,206	2	0	2	130	14,206	2	0	2	130
		R4S	12,475	2	0	2	114	13,707	2	0	2	126	13,707	2	0	2	126
		R5	13,104	4	0	2	120	14,397	4	0	2	132	14,397	4	0	2	132
		R5S	13,452	3	0	2	123	14,779	3	0	2	136	14,779	3	0	2	136
		AFR	12,791	2	0	1	117	14,053	2	0	2	129	14,053	2	0	2	129
		AFRR90	12,913	3	0	3	118	14,187	3	0	3	130	14,187	3	0	3	130
		AFRL90	12,967	3	0	2	118	14,247	3	0	3	130	14,247	3	0	3	130
P4	133W	R2	14,943	2	0	2	112	16,417	2	0	2	123	16,417	2	0	2	123
		R3	14,890	2	0	3	112	16,360	2	0	3	123	16,360	2	0	3	123
		R3S	15,287	2	0	2	115	16,796	2	0	2	126	16,796	2	0	2	126
		R4	15,085	2	0	3	113	16,574	2	0	3	125	16,574	2	0	3	125
		R4S	14,554	2	0	2	109	15,991	2	0	2	120	15,991	2	0	2	120
		R5	15,287	4	0	2	115	16,796	4	0	2	126	16,796	4	0	2	126
		R5S	15,693	4	0	2	118	17,242	4	0	2	130	17,242	4	0	2	130
		AFR	14,923	2	0	2	112	16,395	2	0	2	123	16,395	2	0	2	123
		AFRR90	15,065	3	0	3	113	16,551	3	0	3	124	16,551	3	0	3	124
		AFRL90	15,128	3	0	3	114	16,621	3	0	3	125	16,621	3	0	3	125

## Dimensions & Weights

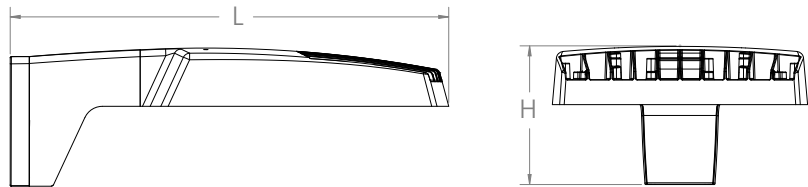
### Luminaire Weight by Mounting Type

Mounting Configuration	Total Luminaire Weight
SPA	22 lbs
RPA	24 lbs
MA	22 lbs
WBA	25 lbs
WBASC	28 lbs
IS	25 lbs
AASP	25 lbs
AARP	27 lbs
AAWB	28 lbs
AAWSC	31 lbs

#### RSX1 with Round Pole Adapter (RPA)



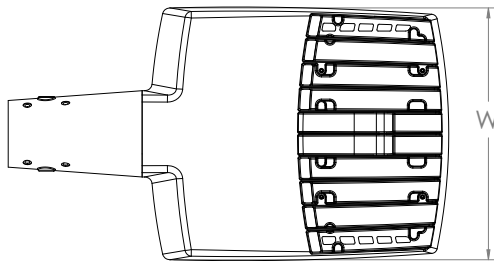
Length: 22.8" (57.9 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.2" (18.4 cm) Arm



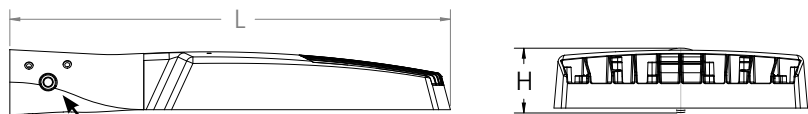
Note: RPA — Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.



#### RSX1 with Mast Arm Adapter (MA)

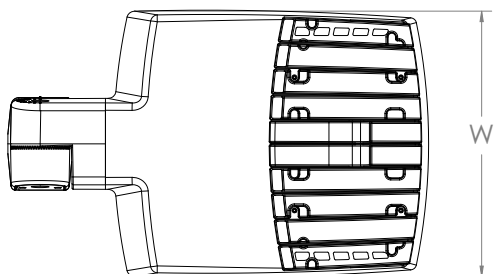


Length: 23.2" (59.1 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 3.5" (8.9 cm) Arm

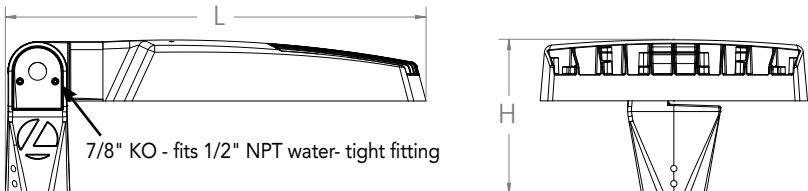


7/16" locking thru bolt/nut provided

#### RSX1 with Adjustable Slipfitter (IS)



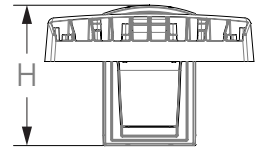
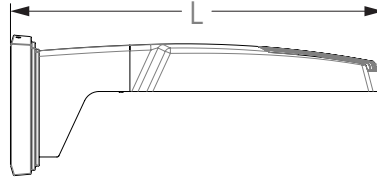
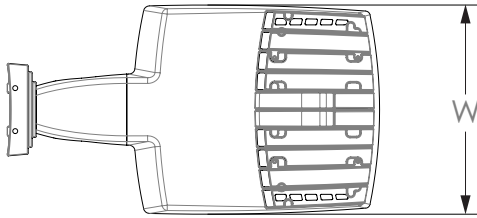
Length: 20.7" (52.7 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.6" (19.3 cm) Arm



7/8" KO - fits 1/2" NPT water-tight fitting

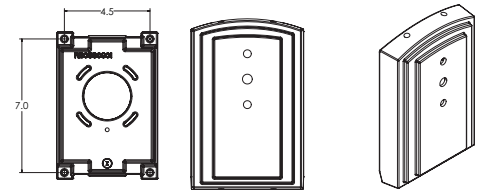
## Dimensions

### RSX1 with Wall Bracket (WBA)

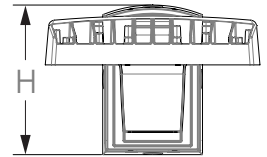
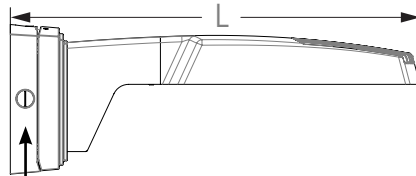
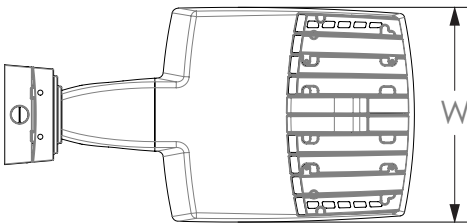


Length: 23.6" (59.9 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 8.9" (22.6 cm) Arm

#### Wall Bracket (WBA) Mounting Detail



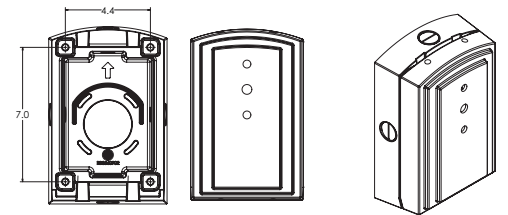
### RSX1 with Wall Bracket with Surface Conduit Box (WBASC)



3/4" NPT taps with plugs - Qty (4) provided

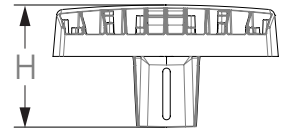
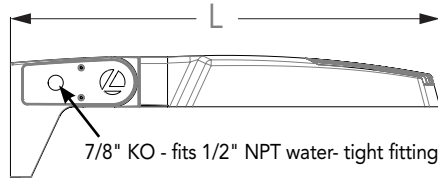
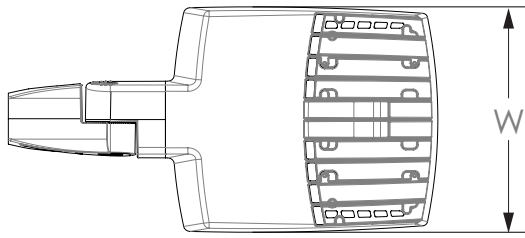
Length: 25.3" (64.3 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 9.2" (23.4 cm) Arm

#### Surface Conduit Box (SCB) Mounting Detail

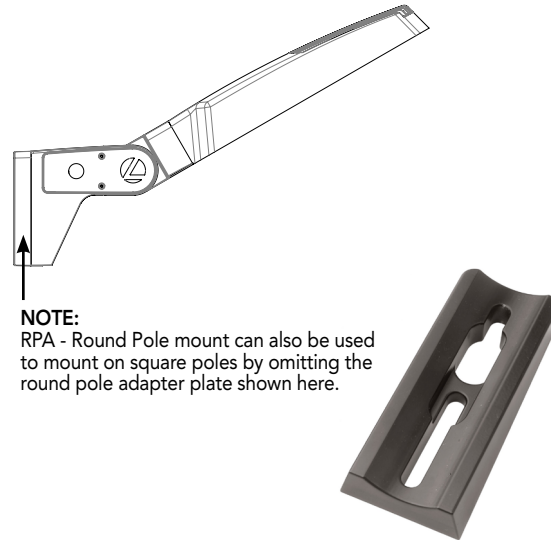


## Dimensions

### RSX1 with Adjustable Tilt Arm - Square or Round Pole (AASP or AARP)



Length: 25.3" (65.3 cm) **AASP**  
 26.3" (66.8 cm) **AARP**  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 7.2" (18.2 cm) Arm



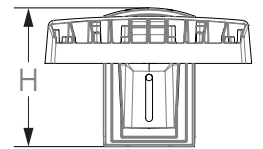
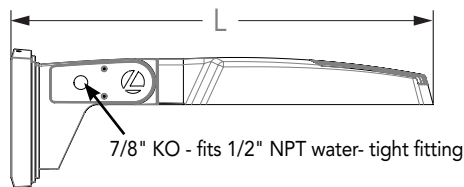
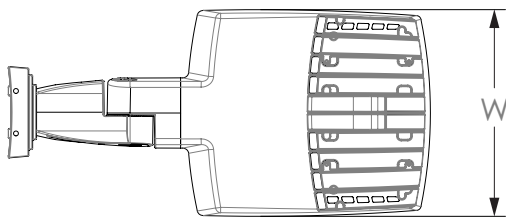
**NOTE:**  
 RPA - Round Pole mount can also be used to mount on square poles by omitting the round pole adapter plate shown here.

#### Notes

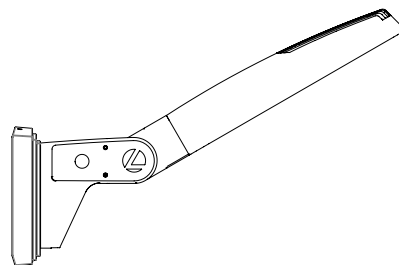
AASP: Requires 3.0" min. square pole for 1 at 90°. Requires 3.5" min. square pole for mounting 2, 3, 4 at 90°.

AARP: Requires 3.2" min. dia. round pole for 2, 3, 4 at 90°. Requires 3.0" min. dia. round pole for mounting 1 at 90°, 2 at 180°, 3 at 120°.

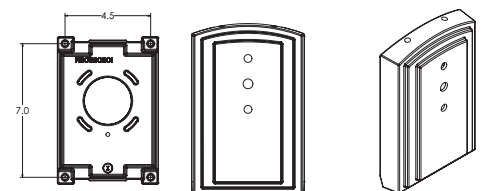
### RSX1 with Adjustable Tilt Arm with Wall Bracket (AAWB)



Length: 27.1" (68.8 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 8.9" (22.6 cm) Arm

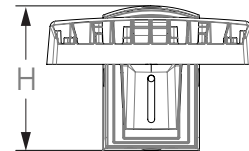
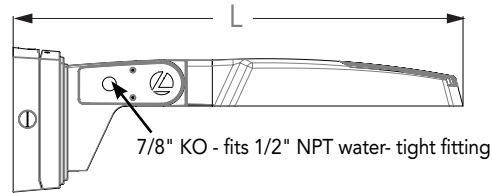
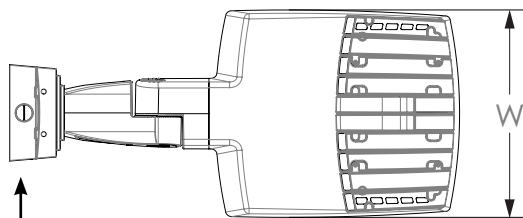


#### Wall Bracket (WBA) Mounting Detail

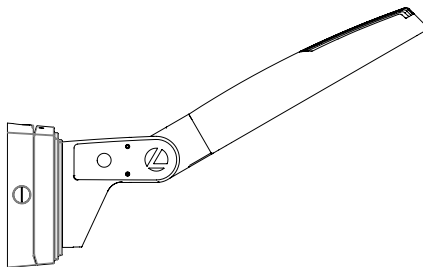


## Dimensions

### RSX1 with Adjustable Tilt Arm with Wall Bracket and Surface Conduit Box (AAWSC)

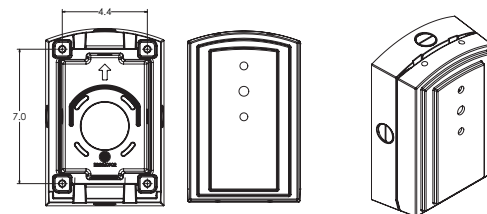


3/4" NPT taps with plugs - Qty (4) provided

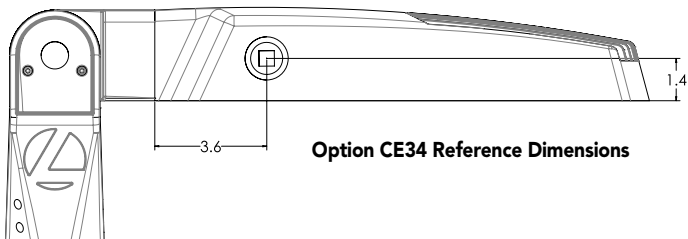


Length: 28.8" (73.2 cm)  
 Width: 13.3" (33.8 cm)  
 Height: 3.0" (7.6 cm) Main Body  
 9.2" (23.4 cm) Arm

### Surface Conduit Box (SCB) Mounting Detail

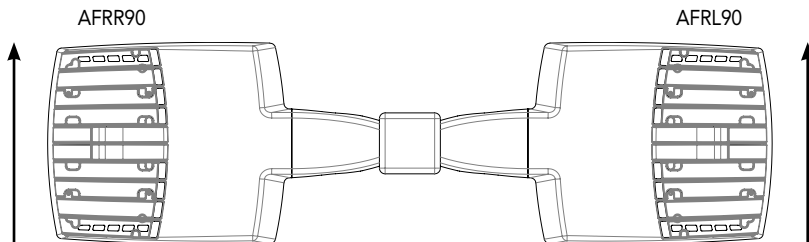


### Additional Reference Drawings



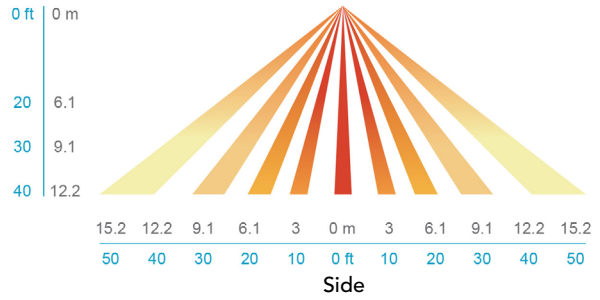
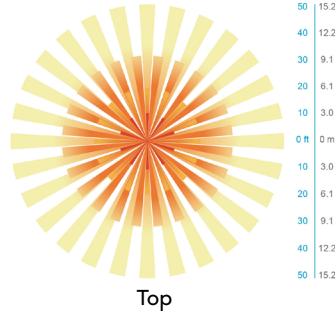
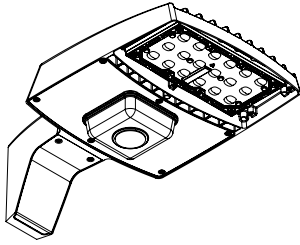
Option CE34 Reference Dimensions

### Automotive Front Row - Rotated Optics (AFRL90/R90)



(Example: 2@180 - arrows indicate direction of light exiting the luminaire)

## nLight Sensor Coverage Pattern NLTAIR2 PIRHN



Motion Sensor Default Settings - Option PIRHN						
Option	Dimmed State (unoccupied)	High Level (when occupied)	Photocell Operation	Dwell Time (occupancy time delay)	Ramp-up Time (from unoccupied to occupied)	Ramp-down Time (from occupied to unoccupied)
NLTAIR2 PIRHN	Approx. 30% Output	100% Output	Enabled @ 1.5FC	7.5 minutes	3 seconds	5 minutes

\*Note: NLTAIR2 PIRHN default settings including photocell set-point, high/low dim rates, and occupancy sensor time delay are all configurable using the Clairity Pro App. Sensor coverage pattern shown with luminaire at 0°. Sensor coverage pattern is affected when luminaire is tilted.

## FEATURES & SPECIFICATIONS

### INTENDED USE

The RSX LED area family is designed to provide a long-lasting, energy-efficient solution for the one-for-one replacement of existing metal halide or high pressure sodium lighting. The RSX1 delivers 7,000 to 17,000 lumens and is ideal for replacing 70W to 400W HID pole-mounted luminaires in parking lots and other area lighting applications.

### CONSTRUCTION

The RSX LED area luminaire features a rugged die-cast aluminum main body that uses heat-dissipating fins and flow-through venting to provide optimal thermal management that both enhances LED performance and extends component life. Integral "no drill" mounting arm allows the luminaire to be mounted on existing pole drillings, greatly reducing installation labor. The light engines and housing are sealed against moisture and environmental contaminants to IP66. The low-profile design results in a low EPA, allowing pole optimization. All mountings are rated for minimum 1.5 G vibration load per ANSI C136.31. 3G Mountings: Include SPA, RPA, MA, IS, AASP, and AARP rated for 3G vibration. 1.5G Mountings: Include WBA, WBASC, AAWB and AAWSC rated for 1.5G vibration.

### FINISH

Exterior parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures superior adhesion as well as a minimum finish thickness of 3 mils. The result is a high-quality finish that is warrantied not to crack or peel.

### OPTICS

Precision acrylic refractive lenses are engineered for superior application efficiency, distributing the light to where it is needed most. Available in short and wide pattern distributions including Type 2, Type 3, Type 3S, Type 4, Type 4S, Type 5, Type 5S, AFR (Automotive Front Row), and AFR rotated AFR90 and ARFL90.

### ELECTRICAL

Light engine(s) configurations consist of high-efficacy LEDs mounted on metal-core circuit boards and aluminum heat sinks to maximize heat dissipation. Light engines are IP66 rated. LED lumen maintenance is >L92/100,000 hours. CCT's of 3000K, 4000K and 5000K (minimum 70 CRI) are available. Class 1 electronic drivers ensure system power factor >90% and THD <20%. Easily serviceable 10kV surge protection device meets a minimum Category C Low operation (per ANSI/IEEE C62.41.2).

### STANDARD CONTROLS

The RSX LED area luminaire has a wide assortment of control options. Dusk to dawn controls include MVOLT and 347V button-type photocells and NEMA twist-lock photocell receptacles.

### nLIGHT AIR CONTROLS

The RSX LED area luminaire is also available with nLight® AIR for the ultimate in wireless control. This powerful controls platform provides out-of-the-box basic motion sensing with photocontrol functionality and is suitable for mounting heights up to 40 feet. No commissioning is required when using factory default settings that provide basic stand-alone motion occupancy dimming that is switched on and off with a built-in photocell. See chart above for motion sensor default out-of-box settings. For more advanced wireless functionality, such as group dimming, nLight AIR can be commissioned using a smartphone and the easy-to-use CLAIRITY app. nLight AIR equipped luminaires can be grouped, resulting in motion sensor and photocell group response without the need for additional equipment. Scheduled dimming with motion sensor over-ride can be achieved when used with the nLight Eclipse. Additional information about nLight Air can be found [here](#).

### INSTALLATION

Integral "no-drill" mounting arm allows for fast, easy mounting using existing pole drillings. Select the "SPA" option for square poles and the "RPA" option to mount to round poles. Note, the RPA mount can also be used for mounting to square poles by omitting the RPA adapter plate. Select the "MA" option to attach the luminaire to a 2 3/8" horizontal mast arm or the "IS" option for an adjustable slipfitter that mounts on a 2 3/8" OD tenon. The adjustable slipfitter has an integral junction box and offers easy installation. Can be tilted up to 90° above horizontal. Additional mountings are available including a wall bracket, adjustable tilt arm for direct-to-pole and wall and a surface conduit box for wall mount applications.

### LISTINGS

CSA Certified to meet U.S. and Canadian standards. Suitable for wet locations. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified.

International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 3000K color temperature only. U.S. Patent No. D882, 146S

### BUY AMERICAN

Product with the BAA option is assembled in the USA and meets the Buy America(n) government procurement requirements under FAR, DFARS and DOT. Please refer to [www.acuitybrands.com/buy-american](http://www.acuitybrands.com/buy-american) for additional information.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**JUNO**

Project: \_\_\_\_\_

Fixture Type: \_\_\_\_\_

Location: \_\_\_\_\_

Contact/Phone: \_\_\_\_\_

# 4" BASICS SERIES™ LED SURFACE MOUNT FIXTURE

FOR J-BOX OR RECESSED HOUSING  
INSTALLATION**4RLS (07LM)**

## PRODUCT DESCRIPTION

Sleek, ultra-low profile energy efficient LED surface mount fixture • Installs directly onto industry standard junction boxes and round mudrings • When used with accessory retrofit kit, can be installed into 4" IC or non-IC recessed housings • Replaces traditional 65W incandescent fixture performance, delivering 700 lumens • Dimmable with most standard incandescent dimmers and electronic low voltage dimmer • LED surface mount fixture is designed to provide over 50,000 hours of life • 5 year warranty.

## PRODUCT SPECIFICATIONS

**Construction** Decorative beveled aluminum trim frame with white finish • Diffusing dome lens conceals the LEDs from direct view and provides uniform lens luminance.

**LED Light Engine** LED board mounted directly to aluminum housing designed to provide superior thermal management and ensure long life • 3000K LED color temperature • LED's binned for 3-step MacAdam ellipse color consistency • 90 CRI minimum • Accommodates 120 volts AC at 60Hz • Dimmable with most standard incandescent, magnetic low voltage and electronic low voltage dimmers • For a list of compatible dimmers, see [JUNORETROBASICS-DIM](#).

**Electrical Connections** Fixture provided with leads for direct wire connection in j-box • Low profile fixture design is free from external electrical components, so j-box volume and box fill is not compromised • Accessory retrofit kit ships with a medium base socket adapter whip for installation as a retrofit trim into 4" incandescent housings with medium base sockets.

**Life** Rated for 50,000 hours at >70% lumen maintenance.

**Labels** ENERGY STAR® certified • UL listed for US and Canada • Suitable for damp locations • Suitable for wet locations (indoor covered ceilings) when fixture is sealed to ceiling with field applied caulk (see instruction sheet for details).

**Testing** All reports are based on published industry procedures; field performance may differ from laboratory performance.

Specifications subject to change without notice.

## INSTALLATION

**Junction Box Mounting** Installs directly to industry standard junction boxes • Compatible boxes include 3-1/2" and 4" octagon junction boxes (1-1/2" minimum depth), round mud rings with 2-3/4" mounting centers, and 3" & 4" diameter non-metallic boxes • Quick-mount strap and spring securement system provides fast installation of fully assembled fixture to junction box • Suitable for ceiling or wall mount • Suitable for use within closet storage spaces when installed per NEC requirements.

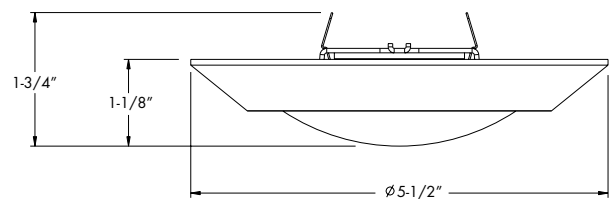
**Recessed Housing Mounting (must use 4RLSRETROKIT)** The 4RLS fixture is compatible with most 4" recessed housings with an inside diameter between 4" and 4-1/2", and a minimum height of 4".

**Compatible 4" Juno housings include:**

**Juno housings:** IC1 and TC1 Series

**VuLite housings:** V4IC and V4TC Series

## DIMENSIONS



## ACCESSORY

Catalog Number	Description
<b>4RLSRETROKIT</b>	Allows 4RLS to retrofit in 4" recessed housing. Kit contains: medium base adapter, mounting springs, and electrical connectors.

## PERFORMANCE DATA

	<b>30K 90CRI</b>
Input Voltage	120V
Input Power Typical	10W
Frequency	60Hz
EMI/RFI	FCC Title 47, Part 15 Class B (consumer)
Minimum starting temp	-40°C (-40°F)
CRI	90 min.
CCT	3000K

## ACCESSORY

Catalog Number	Description
<b>4RLS 07LM 30K 90CRI 120 FRPC WH</b>	4" Juno Basics Surface Mount, 3000K

# 4" BASICS SERIES™ LED SURFACE MOUNT FIXTURE

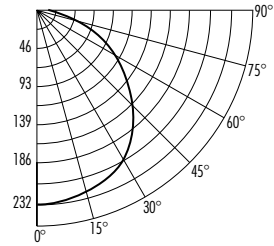
FOR J-BOX OR RECESSED HOUSING INSTALLATION

## 4RLS (07LM)

### PHOTOMETRICS

#### PHOTOMETRIC REPORT

Test Report#: PT11153002R  
Catalog No: 4RLS 07LM 30K 90CRI 120  
FRPC WH  
Luminaire Spacing Criteria: 1.28  
Luminaire LPW: 70



#### CANDLEPOWER DISTRIBUTION (Candelas)

Degrees Vertical	0°
0	232
5	231
15	225
25	210
35	188
45	161
55	128
65	94
75	59
85	30
90	19

#### AVERAGE INITIAL FOOTCANDLES

Multiple Units (Square Array, 60"x60" room)

Ceiling 80%, Walls 50%, Floors 20%

Spacing	RCR1	RCR3	RCR5
4'	46	35	28
5'	30	22	18
6'	21	16	12
7'	17	13	10
8'	13	10	8
9'	10	8	6
10'	7	6	4

#### ZONAL LUMEN SUMMARY

Zone	Lumens	%Lamp	%Fixture
0-30°	182	N/A	25.1
0-40°	300	N/A	41.3
0-60°	538	N/A	74.1
0-90°	726	N/A	100.0

#### INITIAL FOOTCANDLES

(One Unit: 10.4W, 117° Beam)

Distance to Illuminated Plane (Feet)	Footcandles Beam Center	Beam Diameter
4'	14.5	13.1
6'	6.4	19.6
8'	3.6	26.2
10'	2.3	32.7

#### LUMINANCE (Average cd/m²)

Angle in Degrees	Average 0-90°
45°	28560
55°	28130
65°	27819
75°	28419
85°	43209



# WEDGE2 LED

## Architectural Wall Sconce

### Visual Comfort Optic



Catalog Number

Notes

Type

Hit the Tab key or mouse over the page to see all interactive elements.

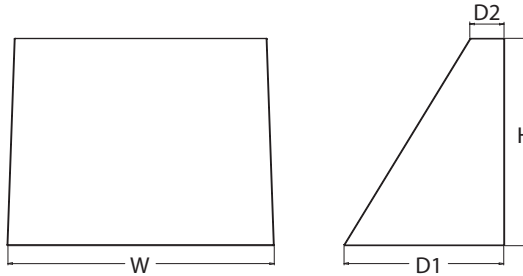
### Introduction

The WEDGE2 LED family is designed to meet specifier's every wall-mounted lighting need in a widely accepted shape that blends with any architecture. The clean rectilinear design comes in four sizes with lumen packages ranging from 1,200 to 25,000 lumens, providing a true site-wide solution. Embedded with nLight® AIR wireless controls, the WEDGE family provides additional energy savings and code compliance.

WEDGE2 delivers up to 6,000 lumens with a soft, non-pixelated light source, creating a visually comfortable environment. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WEDGE2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

### Specifications

- Depth (D1):** 7"
- Depth (D2):** 1.5"
- Height:** 9"
- Width:** 11.5"
- Weight:** 13.5 lbs  
(without options)



### WEDGE LED Family Overview

Luminaire	Optics	Standard EM, 0°C	Cold EM, -20°C	Sensor	Approximate Lumens (4000K, 80CRI)						
					P0	P1	P2	P3	P4	P5	P6
WEDGE1 LED	Visual Comfort	4W		--	750	1,200	2,000	--	--	--	--
WEDGE2 LED	Visual Comfort	10W	18W	Standalone / nLight	--	1,200	2,000	3,000	4,500	6,000	--
WEDGE2 LED	Precision Refractive	10W	18W	Standalone / nLight	700	1,200	2,000	3,200	4,200	--	--
WEDGE3 LED	Precision Refractive	15W	18W	Standalone / nLight	--	7,500	8,500	10,000	12,000	--	--
WEDGE4 LED	Precision Refractive			Standalone / nLight	--	12,000	16,000	18,000	20,000	22,000	25,000

### Ordering Information

**EXAMPLE:** WEDGE2 LED P3 40K 80CRI VF MVOLT SRM DDBXD

Series	Package	Color Temperature	CRI	Distribution	Voltage	Mounting
WEDGE2 LED	P1 <sup>1</sup>	P1SW	27K 2700K	VF Visual comfort forward throw	MVOLT	<b>Shipped included</b> SRM Surface mounting bracket ICW Indirect Canopy/Ceiling Washer bracket (dry/damp locations only) <sup>2</sup>
	P2 <sup>1</sup>	P2SW	30K 3000K			
	P3 <sup>1</sup>	P3SW	35K 3500K	MVOLT		
	P4 <sup>1</sup>	Door with small window (SW) is required to accommodate sensors. See page 2 for more details.			40K 4000K	
	P5 <sup>1</sup>		50K <sup>2</sup> 5000K			

**Shipped separately**  
 AWS 3/8inch Architectural wall spacer  
 PBBW Surface-mounted back box (top, left, right conduit entry). Use when there is no junction box available.

Options	Finish
<b>E4WH</b> Emergency battery backup, Certified in CA Title 20 MAEDBS (4W, 0°C min) <b>E10WH</b> Emergency battery backup, Certified in CA Title 20 MAEDBS (10W, 5°C min) <b>E20WC</b> Emergency battery backup, Certified in CA Title 20 MAEDBS (18W, -20°C min) <b>PE<sup>4</sup></b> Photocell, Button Type <b>DS<sup>5</sup></b> Dual switching (comes with 2 drivers and 2 light engines; see page 3 for details) <b>DMG<sup>6</sup></b> 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately) <b>BCE</b> Bottom conduit entry for back box (PBBW). Total of 4 entry points.	<b>DDBXD</b> Dark bronze <b>DBLXD</b> Black <b>DNAXD</b> Natural aluminum <b>DWHXD</b> White <b>DSSXD</b> Sandstone <b>DDBTXD</b> Textured dark bronze <b>DBLBXD</b> Textured black <b>DNATXD</b> Textured natural aluminum <b>DWHGXD</b> Textured white <b>DSSTXD</b> Textured sandstone
<b>Standalone Sensors/Controls</b> (only available with P1SW, P2SW & P3SW) <b>PIR</b> Bi-level (100/35%) motion sensor for 8-15' mounting heights. Intended for use on switched circuits with external dusk to dawn switching. <b>PIRH</b> Bi-level (100/35%) motion sensor for 15-30' mounting heights. Intended for use on switched circuits with external dusk to dawn switching <b>PIR1FC3V</b> Bi-level (100/35%) motion sensor for 8-15' mounting heights with photocell pre-programmed for dusk to dawn operation. <b>PIRH1FC3V</b> Bi-level (100/35%) motion sensor for 15-30' mounting heights with photocell pre-programmed for dusk to dawn operation. <b>Networked Sensors/Controls</b> (only available with P1SW, P2SW & P3SW) <b>NLTAIR2 PIR</b> nLightAIR Wireless enabled bi-level motion/ambient sensor for 8-15' mounting heights. <b>NLTAIR2 PIRH</b> nLightAIR Wireless enabled bi-level motion/ambient sensor for 15-30' mounting heights. See page 4 for out of box functionality	



COMMERCIAL OUTDOOR

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WEDGE2 LED  
 Rev. 08/31/21

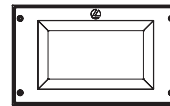
## Accessories

Ordered and shipped separately.

WDGEAWS DDBXD	WDGE 3/8inch Architectural Wall Spacer (specify finish)
WDGE2P8BW DDBXD U	WDGE2 surface-mounted back box (specify finish)

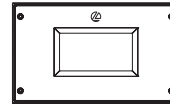
### NOTES

- P1-P5 not available with sensors/controls. Sensors/controls only available with P1SW, P2SW and P3SW.
- 50K not available in 90CRI
- 347V and 480V not available with E4WH, E10WH, E20WC or DS.
- PE not available in 480V or with sensors/controls
- DS option not available with E4WH, E10WH, E20WC or sensors/controls.
- DMG option not available with sensors/controls
- Not qualified for DLC. Not available with emergency battery backup or sensors/controls



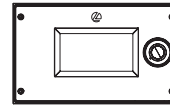
Default configuration with no sensors/controls.

Power Packages: P1, P2, P3, P4, P5



Small Window (SW) configuration

Power Packages: P1SW, P2SW, P3SW



Configuration with sensors/controls

Power Packages: P1SW, P2SW, P3SW

## Performance Data

### Lumen Output

Lumen values are from photometric tests performed in accordance with IESNA LM-79-08. Data is considered to be representative of the configurations shown, within the tolerances allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

Performance Package	System Watts	Dist. Type	27K (2700K, 80 CRI)					30K (3000K, 80 CRI)					35K (3500K, 80 CRI)					40K (4000K, 80 CRI)					50K (5000K, 80 CRI)				
			Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G	Lumens	LPW	B	U	G
P1 / P1SW	10W	VF	1,166	119	0	0	0	1,209	123	0	0	0	1,251	128	0	0	0	1,256	128	0	0	0	1,254	128	0	0	0
		VW	1,197	122	0	0	0	1,241	126	0	0	0	1,284	131	0	0	0	1,289	131	0	0	0	1,286	131	0	0	0
P2 / P2SW	15W	VF	1,878	129	1	0	0	1,947	134	1	0	0	2,015	139	1	0	0	2,023	139	1	0	0	2,019	139	1	0	0
		VW	1,927	133	1	0	0	1,997	137	1	0	0	2,067	142	1	0	0	2,075	143	1	0	0	2,071	143	1	0	0
P3 / P3SW	23W	VF	2,908	129	1	0	0	3,015	134	1	0	0	3,119	138	1	0	0	3,132	139	1	0	0	3,126	139	1	0	0
		VW	2,983	132	1	0	0	3,093	137	1	0	0	3,200	142	1	0	0	3,213	143	1	0	0	3,206	142	1	0	0
P4	35W	VF	4,096	117	1	0	1	4,247	121	1	0	1	4,394	126	1	0	1	4,412	126	1	0	1	4,403	126	1	0	1
		VW	4,202	120	1	0	0	4,357	125	1	0	1	4,508	129	1	0	1	4,526	129	1	0	1	4,517	129	1	0	1
P5	48W	VF	5,567	115	1	0	1	5,772	119	1	0	1	5,972	123	1	0	1	5,996	124	1	0	1	5,984	124	1	0	1
		VW	5,711	118	1	0	1	5,921	122	1	0	1	6,127	126	1	0	1	6,151	127	1	0	1	6,139	127	1	0	1

### Electrical Load

Performance Package	System Watts	Current (A)					
		120V	208V	240V	277V	347V	480V
P1 / P1SW	10W	0.082	0.049	0.043	0.038	--	--
	13W	--	--	--	--	0.046	0.033
P2 / P2SW	15W	0.132	0.081	0.072	0.064	--	--
	18W	--	--	--	--	0.056	0.041
P3 / P3SW	23W	0.195	0.114	0.100	0.088	--	--
	26W	--	--	--	--	0.079	0.058
P4	35W	0.302	0.175	0.152	0.134	--	--
	38W	--	--	--	--	0.115	0.086
P5	48W	0.434	0.241	0.211	0.184	--	--
	52W	--	--	--	--	0.157	0.119

### Lumen Multiplier for 90CRI

CCT	Multiplier
27K	0.845
30K	0.867
35K	0.845
40K	0.885
50K	0.898

### Lumen Output in Emergency Mode (4000K, 80 CRI)

Option	Dist. Type	Lumens
E4WH	VF	646
	VW	647
E10WH	VF	1,658
	VW	1,701
E20WC	VF	2,840
	VW	2,913

### Lumen Ambient Temperature (LAT) Multipliers

Use these factors to determine relative lumen output for average ambient temperatures from 0-40°C (32-104°F).

Ambient	Lumen Multiplier
0°C / 32°F	1.03
10°C / 50°F	1.02
20°C / 68°F	1.01
25°C / 77°F	1.00
30°C / 86°F	0.99
40°C / 104°F	0.98

### Projected LED Lumen Maintenance

Data references the extrapolated performance projections for the platforms noted in a 25°C ambient, based on 10,000 hours of LED testing (tested per IESNA LM-80-08 and projected per IESNA TM-21-11).

To calculate LLF, use the lumen maintenance factor that corresponds to the desired number of operating hours below. For other lumen maintenance values, contact factory.

Operating Hours	0	25,000	50,000	100,000
Lumen Maintenance Factor	1.0	>0.96	>0.95	>0.91



COMMERCIAL OUTDOOR

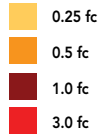
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WDGE2 LED  
Rev. 08/31/21

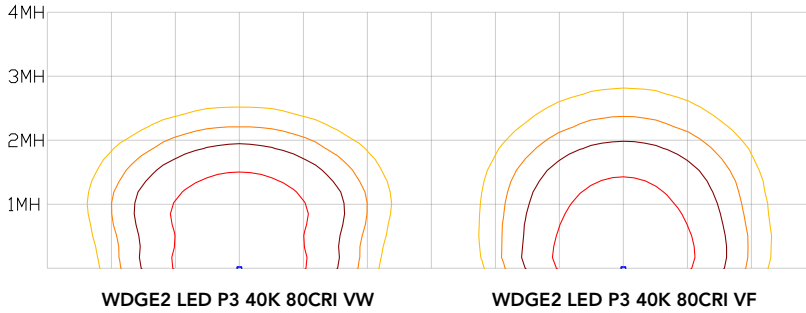
## Photometric Diagrams

To see complete photometric reports or download .ies files for this product, visit the Lithonia Lighting WDGE LED homepage. Tested in accordance with IESNA LM-79 and LM-80 standards.

### LEGEND



MH = 10ft  
Grid = 10ft x 10ft



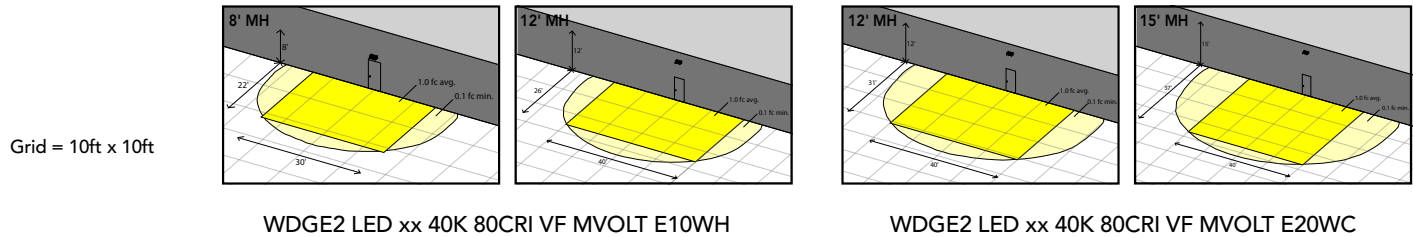
## Emergency Egress Options

### Emergency Battery Backup

The emergency battery backup is integral to the luminaire — no external housing required! This design provides reliable emergency operation while maintaining the aesthetics of the product. All emergency battery backup configurations include an independent secondary driver with an integral relay to immediately detect loss of normal power and automatically energize the luminaire. The emergency battery will power the luminaire for a minimum duration of 90 minutes (maximum duration of three hours) from the time normal power is lost and maintain a minimum of 60% of the light output at the end of 90minutes.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9

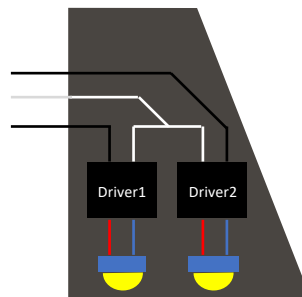
The examples below show illuminance of 1 fc average and 0.1 fc minimum in emergency mode with E10WH or E20WC and VF distribution.



### Dual Switching (DS) Option

The dual switching option offers operational redundancy that certain codes require. With this option the luminaire comes integrated with two drivers and two light engines. These work completely independent to each other so that a failure of any individual component does not cause the whole luminaire to go dark. This option is typically used with a back generator or inverter providing emergency power.

Applicable codes: NFPA 70/NEC – section 700.16, NFPA 101 Life Safety Code Section 7.9



## Motion/Ambient Sensor (PIR, PIRH)

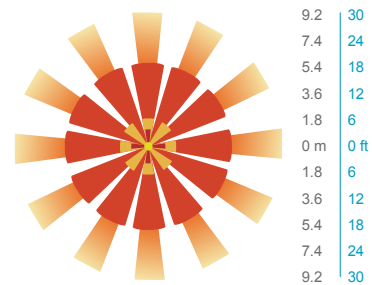
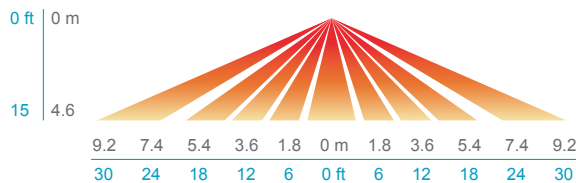
Motion/Ambient sensor (Sensor Switch MSOD) is integrated into the the luminaire. The sensor provides both Motion and Daylight based dimming of the luminaire. For motion detection, the sensor utilizes 100% Digital Passive Infrared (PIR) technology that is tuned for walking size motion while preventing false tripping from the environment. The integrated photocell enables additional energy savings during daytime periods when there is sufficient daylight. Optimize sensor coverage by either selecting PIR or PIRH option. PIR option comes with a sensor lens that is optimized to provide maximum coverage for mounting heights between 8-15ft, while PIRH is optimized for 15-40ft mounting height.

## Networked Control (NLTAIR2)

nLight® AIR is a wireless lighting controls platform that allows for seamless integration of both indoor and outdoor luminaires. Five-tier security architecture, 900 MHz wireless communication and app (CLAIRITY™ Pro) based configurability combined together make nLight® AIR a secure, reliable and easy to use platform.

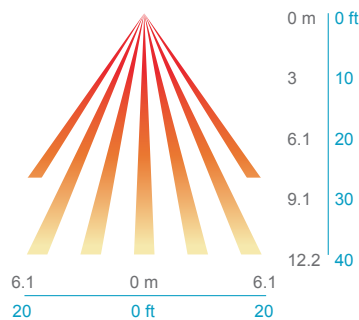
### PIR

#### HIGH VIEW

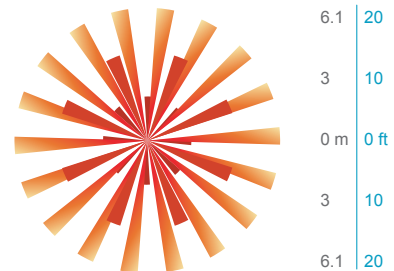


### PIRH

#### SIDE VIEW



#### TOP VIEW



Option	Dim Level	High Level (when triggered)	Photocell Operation	Motion Time Delay	Ramp-down Time	Ramp-up Time
PIR or PIRH	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
PIR1FC3V, PIRH1FC3V	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 1fc	5 min	5 min	Motion - 3 sec Photocell - 45 sec
NLTAIR2 PIR, NLTAIR2 PIRH (out of box)	Motion - 3V (37% of full output) Photocell - 0V (turned off)	10V (100% output)	Enabled @ 5fc	7.5 min	5 min	Motion - 3 sec Photocell - 45 sec



### NLTAIR2 PIR – nLight AIR Motion/Ambient Sensor

D = 7"

H = 11"

W = 11.5"



### PBBW – Surface-Mounted Back Box Use when there is no junction box available.

D = 1.75"

H = 9"

W = 11.5"



### AWS – 3/8inch Architectural Wall Spacer

D = 0.38"

H = 4.4"

W = 7.5"

## FEATURES & SPECIFICATIONS

### INTENDED USE

Common architectural look, with clean rectilinear shape, of the WDGE LED was designed to blend with any type of construction, whether it be tilt-up, frame or brick. Applications include commercial offices, warehouses, hospitals, schools, malls, restaurants, and other commercial buildings.

### CONSTRUCTION

The single-piece die-cast aluminum housing integrates secondary heat sinks to optimize thermal transfer from the internal light engine heat sinks and promote long life. The driver is mounted in direct contact with the casting for a low operating temperature and long life. The die-cast door frame is fully gasketed with a one-piece solid silicone gasket to keep out moisture and dust, providing an IP66 rating for the luminaire.

### FINISH

Exterior painted parts are protected by a zinc-infused Super Durable TGIC thermoset powder coat finish that provides superior resistance to corrosion and weathering. A tightly controlled multi-stage process ensures a 3 mils thickness for a finish that can withstand extreme climate changes without cracking or peeling. Standard Super Durable colors include dark bronze, black, natural aluminum, sandstone and white. Available in textured and non-textured finishes.

### OPTICS

Well crafted reflector optics allow the light engine to be recessed within the luminaire, providing visual comfort, superior distribution, uniformity, and spacing in wall-mount applications. The WDGE LED has zero uplight and qualifies as a Nighttime Friendly™ product, meaning it is consistent with the LEED® and Green Globes™ criteria for eliminating wasteful uplight.

### ELECTRICAL

Light engine consists of high-efficiency LEDs mounted to metal-core circuit boards to maximize heat dissipation and promote long life (up to L91/100,000 hours at 25°C). The electronic driver has a power factor of >90%, THD <20%. Luminaire comes with built in 6kV surge protection, which meets a minimum Category C low exposure (per ANSI/IEEE C62.41.2).

### INSTALLATION

A universal mounting plate with integral mounting support arms allows the fixture to hinge down for easy access while making wiring connections. The 3/8" Architectural Wall Spacer (AWS) can be used to create a floating appearance or to accommodate small imperfections in the wall surface. The ICW option can be used to mount the luminaire inverted for indirect lighting in dry and damp locations. Design can withstand up to a 1.5 G vibration load rating per ANSI C136.31.

### LISTINGS

CSA certified to U.S. and Canadian standards. Luminaire is IP66 rated. PIR options are rated for wet location. Rated for -40°C minimum ambient. DesignLights Consortium® (DLC) Premium qualified product and DLC qualified product. Not all versions of this product may be DLC Premium qualified or DLC qualified. Please check the DLC Qualified Products List at [www.designlights.org/QPL](http://www.designlights.org/QPL) to confirm which versions are qualified. International Dark-Sky Association (IDA) Fixture Seal of Approval (FSA) is available for all products on this page utilizing 2700K and 3000K color temperature only and SRM mounting only.

### BUY AMERICAN

This product is assembled in the USA and meets the Buy America(n) government procurement requirements under FARS, DFARS and DOT. Please refer to [www.acuitybrands.com/resources/buy-american](http://www.acuitybrands.com/resources/buy-american) for additional information.

### WARRANTY

5-year limited warranty. Complete warranty terms located at: [www.acuitybrands.com/support/warranty/terms-and-conditions](http://www.acuitybrands.com/support/warranty/terms-and-conditions)

**Note:** Actual performance may differ as a result of end-user environment and application. All values are design or typical values, measured under laboratory conditions at 25 °C. Specifications subject to change without notice.

**CARSON  
EW61806**

WALL

PROJECT



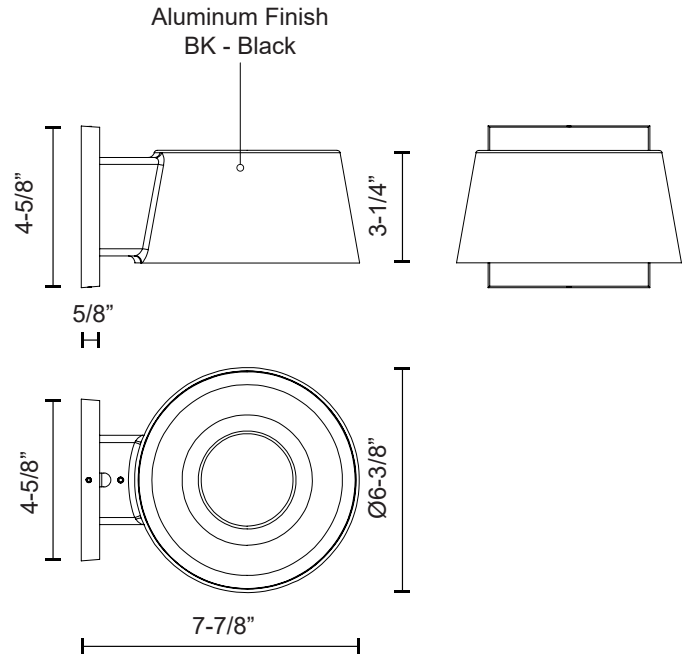
**DESCRIPTION**

Architectural exterior wall sconce, die-cast aluminum conical body with glossy white reflector for even illumination. Rated IP65.

**SPECIFICATION DETAILS**

\* For custom options, consult factory for details.

<b>Fixture Dimensions</b>	W6-3/8" x H3-1/4" x E7-7/8"
<b>Light Source</b>	LED with DC Driver
<b>Wattage</b>	11W
<b>Total Lumens</b>	1155lm
<b>Delivered Lumens</b>	BK-741lm
<b>Voltage</b>	120-277V
<b>Color Temperature</b>	3000K
<b>CRI (Ra)</b>	80CRI
<b>Optional Color Temps</b>	2700K - 5000K Available, Minimum Order Quantities Apply
<b>LED Rated Life</b>	50,000 hours
<b>Dimming</b>	Non-Dimming
<b>Diffuser Details</b>	Clear PC
<b>Location</b>	Wet, IP65
<b>Warranty</b>	5 Years
<b>Canopy Dimensions</b>	W4-5/8" x H4-5/8" x E1/2"
<b>Finish Option(s)</b>	Black



**KUZCO**

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COMMENT

