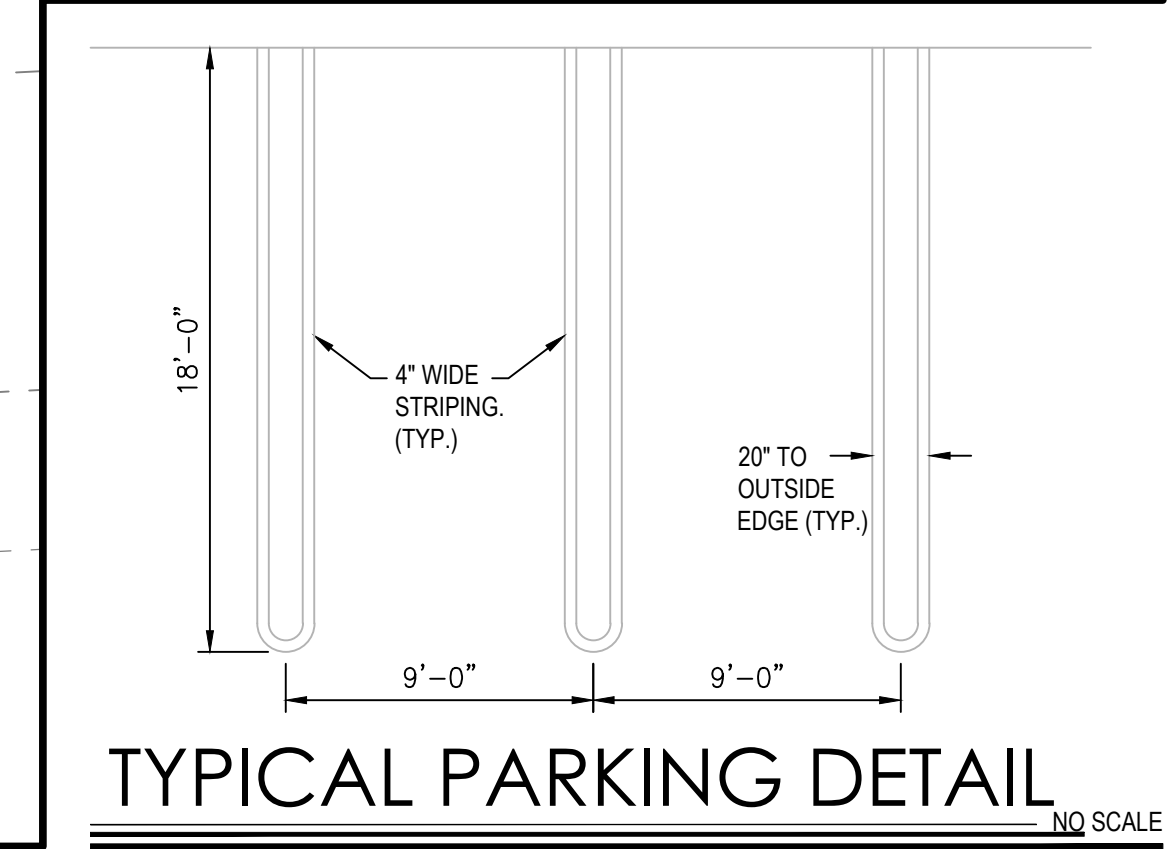
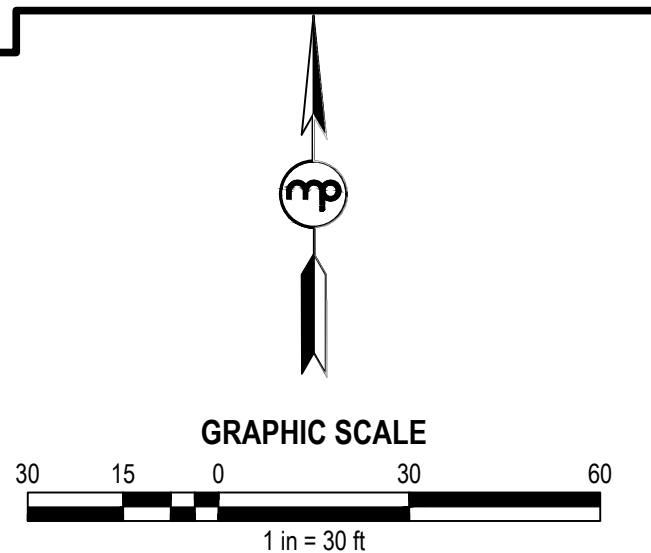
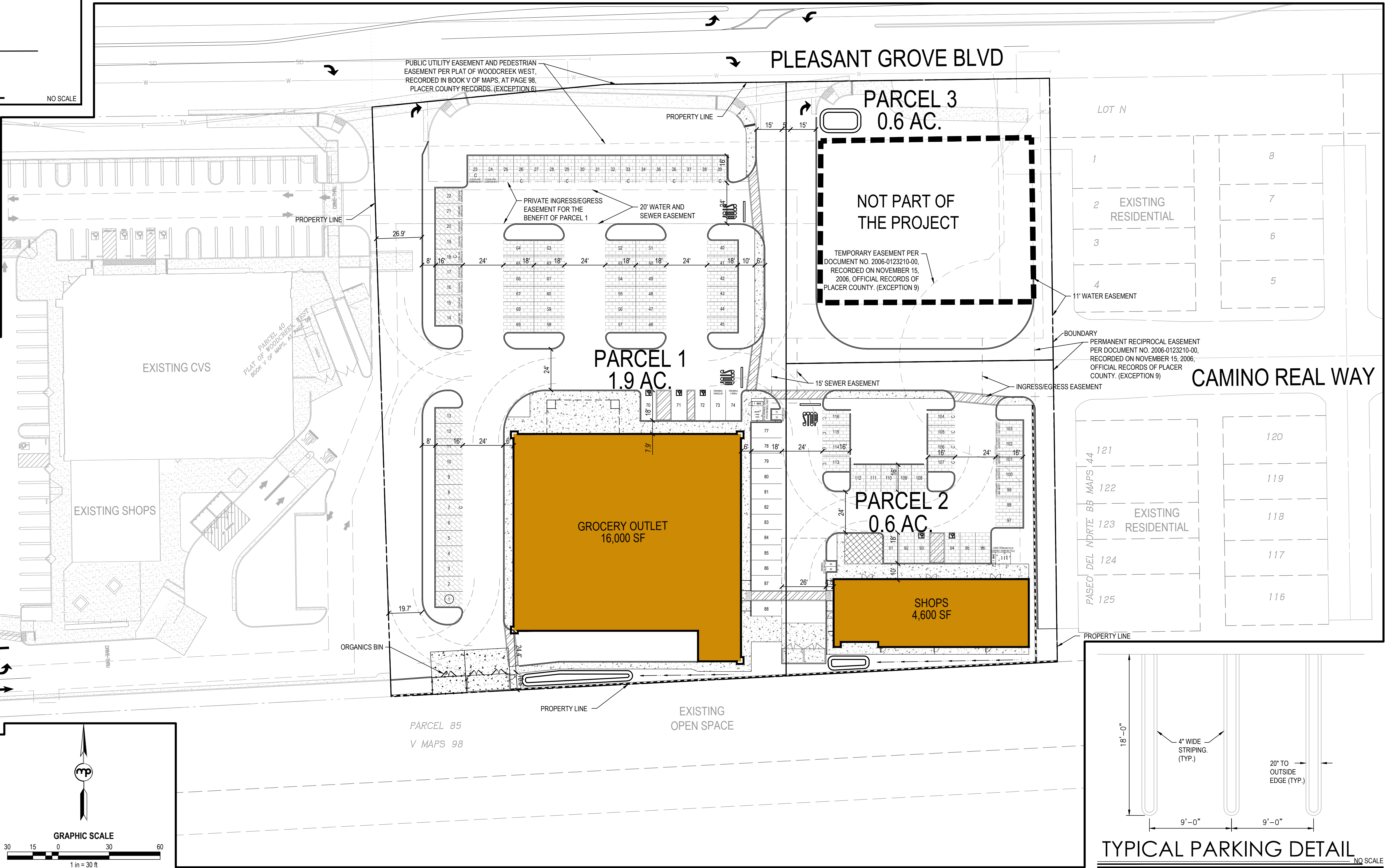
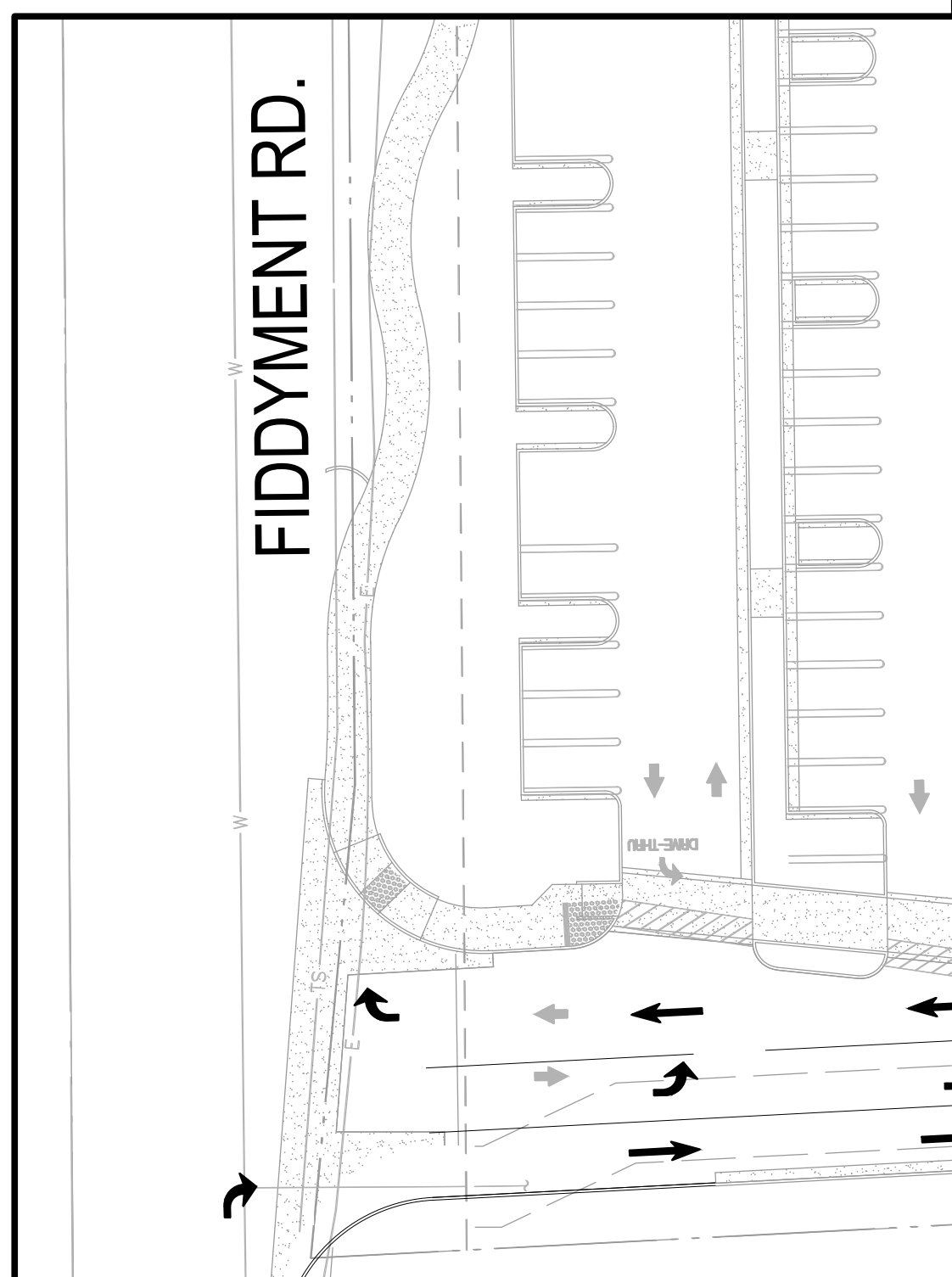


PARCEL	SQUARE FEET	CODE	REQUIRED	PROVIDED	EV	ACCESSIBLE	BIKE (SHORT TERM)	BIKE (LONG TERM)
1 - GROCERY OUTLET	16,000	1/300 SF	54	88	11 REQ. 11 PROV.	3 REQ. 3 PROV.	3 REQ. 3 PROV.	TBD PER EMPLOYEES
2 - SHOPS	4,600	1/200 SF	23	28	5 REQ. 5 PROV.	2 REQ. 2 PROV.	3 REQ. 3 PROV.	TBD PER EMPLOYEES
TOTAL			77	116	12 REQ. 12 PROV.	5 REQ. 5 PROV.	9 REQ. 9 PROV.	TBD PER EMPLOYEES

PARKING REQUIREMENT



TYPICAL LIGHT DETAIL



Dwg. X:\2020\20-011-00 (GROCERY OUTLET)\DWG\PLANNING\20001-SP01.DWG | Saved: 02/23/20 10:22am | RCHENG

NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE

SCALE:	BENCH MARK
HORIZ. 1" = 30'	
VERT. 1" = N/A	

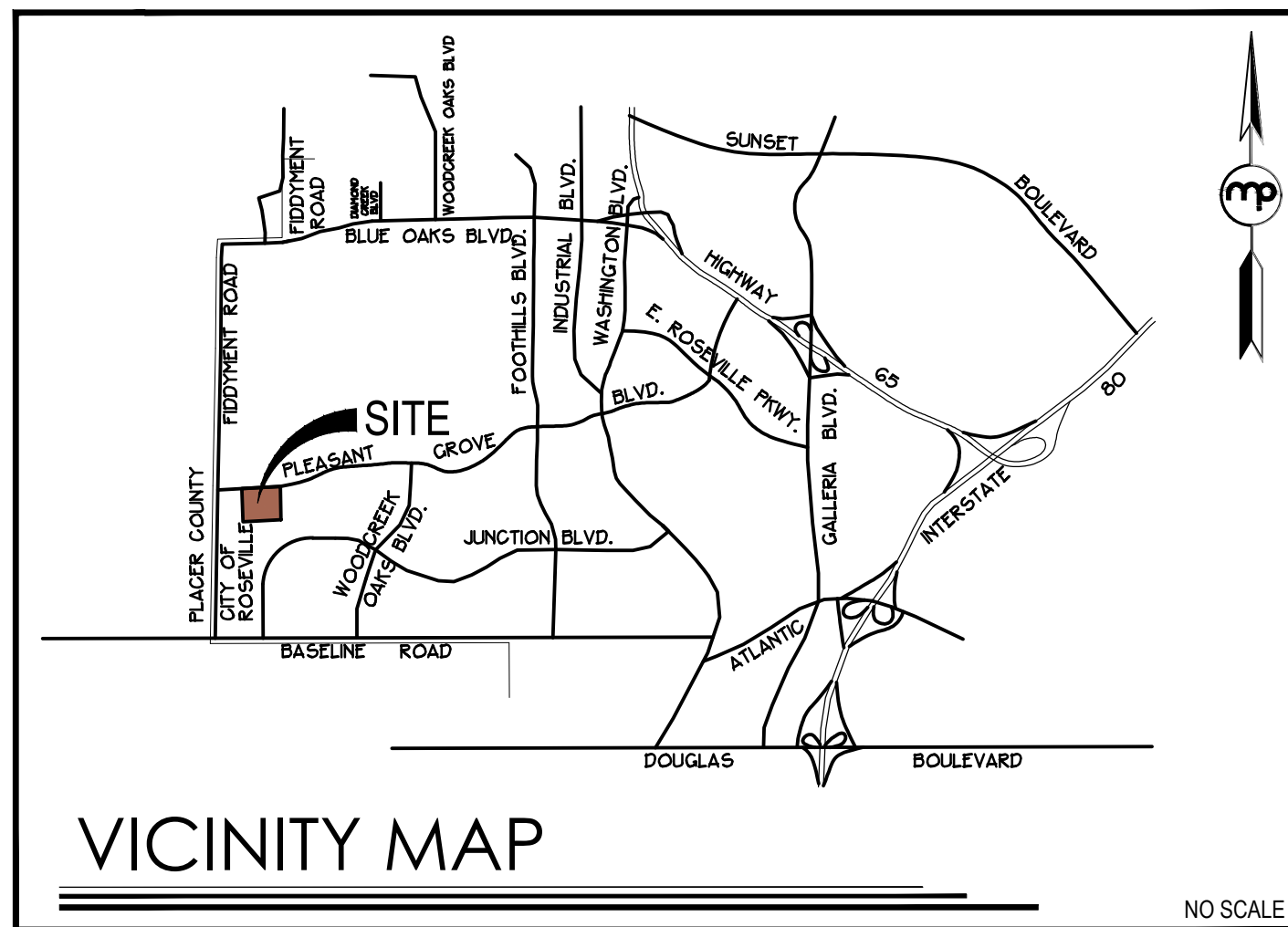
COMPUTED
DESIGNED
DRAWN
PROJ. ENGR.

mp **MORTON & PITALO, INC.**
 CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
 Folsom • Fresno
 600 Coolidge Drive, Suite #140
 Folsom, CA 95630
 phone: (916) 964-7421
 web: www.mpengr.com

PRELIMINARY PLAN FOR
GROCERY OUTLET
 1751 PLEASANT GROVE BOULEVARD
SITE PLAN
 ROSEVILLE, CALIFORNIA

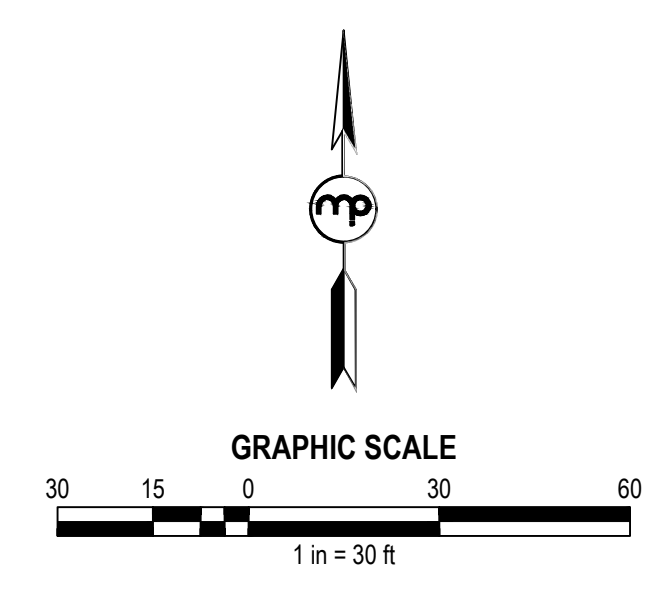
DATE	MARCH 23, 2023
SHEET	1
OF	3

EN CW## NOT FOR CONSTRUCTION GROCERY OUTLET



ABBREVIATIONS

PUE	PUBLIC UTILITY EASEMENT
PE	PEDESTRIAN EASEMENT
DE	DRAINAGE EASEMENT



- NOTES**
- THIS EXHIBIT IS FOR TENTATIVE MAP PURPOSES ONLY. ALL SITE CHARACTERISTICS ARE TO BE VERIFIED PRIOR TO FINAL MAP.
 - MINOR MODIFICATION MAY BE MADE TO LOT LINES AT FINAL MAP.
 - FOR PRELIMINARY PLANNING PURPOSES ONLY. BOUNDARY, TOPO, EASEMENTS AND SITE CONDITIONS TO BE VERIFIED PRIOR TO FINAL MAP AND ENGINEERING.
 - PURSUANT TO GOVERNMENT CODE SECTION 66456.1 THE SUBDIVIDER MAY FILE MULTIPLE FINAL MAPS BASED UPON THIS TENTATIVE MAP. THE FILING OF A FINAL MAP ON A PORTION OF THIS TENTATIVE MAP SHALL NOT INVALIDATE ANY PART OF THIS TENTATIVE MAP, INCLUDING THE AUTHORITY OF THE LOCAL AGENCY TO IMPOSE REASONABLE CONDITIONS RELATING TO THE FILING OF MULTIPLE FINAL MAPS.
 - ALL UTILITY SYSTEMS ILLUSTRATED ON THE TENTATIVE MAP ARE SUBJECT TO CHANGE AT THE TIME OF FINAL DESIGN.
 - GRADING SHOWN ON THIS TENTATIVE MAP ILLUSTRATES A GENERAL GRADING CONCEPT AND IS SUBJECT TO CHANGE AT THE TIME OF FINAL DESIGN.
 - PUBLIC UTILITY EASEMENTS OVER, ON, UNDER AND ACROSS THE LAND DESIGNATED ON THESE PLANS AS "P.U.E." FOR THE INSTALLATION AND MAINTENANCE OF ANY AND ALL UTILITY SERVICE FACILITIES INCLUDING BUT NOT LIMITED TO POLES, WIRES, AND CONDUITS FOR ELECTRICAL, TELEPHONE, TELEVISION, GAS, SANITARY, AND WATER SERVICES, AND ALL APPURTENANCES THERE TO TOGETHER WITH THE RIGHT TO CONSTRUCT, PLACE TRAFFIC CONTROL, AND TRIM AND REMOVE TREES AND VEGETATION.
 - DEVELOPMENT STANDARDS: AS SPECIFIED IN THE CITY OF ROSEVILLE ZONING ORDINANCE AND CITY OF ROSEVILLE COMMUNITY DESIGN GUIDELINES.
 - SITE LIGHTING SHOWN FOR REFERENCE ONLY. LIGHT LOCATIONS TO BE COORDINATED WITH THE PHOTOMETRIC PLAN PREPARED FOR THIS PROJECT.
 - EASEMENT FOR RECIPROCAL ACCESS, PARKING, DRAINAGE AND UTILITIES IS REQUIRED BETWEEN PARCELS 1, 2, AND 3.

OWNER / APPLICANT
 INTERCAL REAL ESTATE CORPORATION
 CONTACT: PAUL BOLLINGER
 540 FULTON AVENUE
 SACRAMENTO, CALIFORNIA 95825
 PHONE: (916) 486-4959
 EMAIL: PAUL@INTERCALRE.COM

ENGINEER / PLANNER
 MORTON PITALO, INC.
 600 COOLIDGE DRIVE, SUITE #140
 FOLSOM, CA 95630
 CONTACT: EDWIN YU
 PHONE: (916) 486-8787
 EMAIL: EYU@MPENGR.COM

UTILITY PROVIDERS

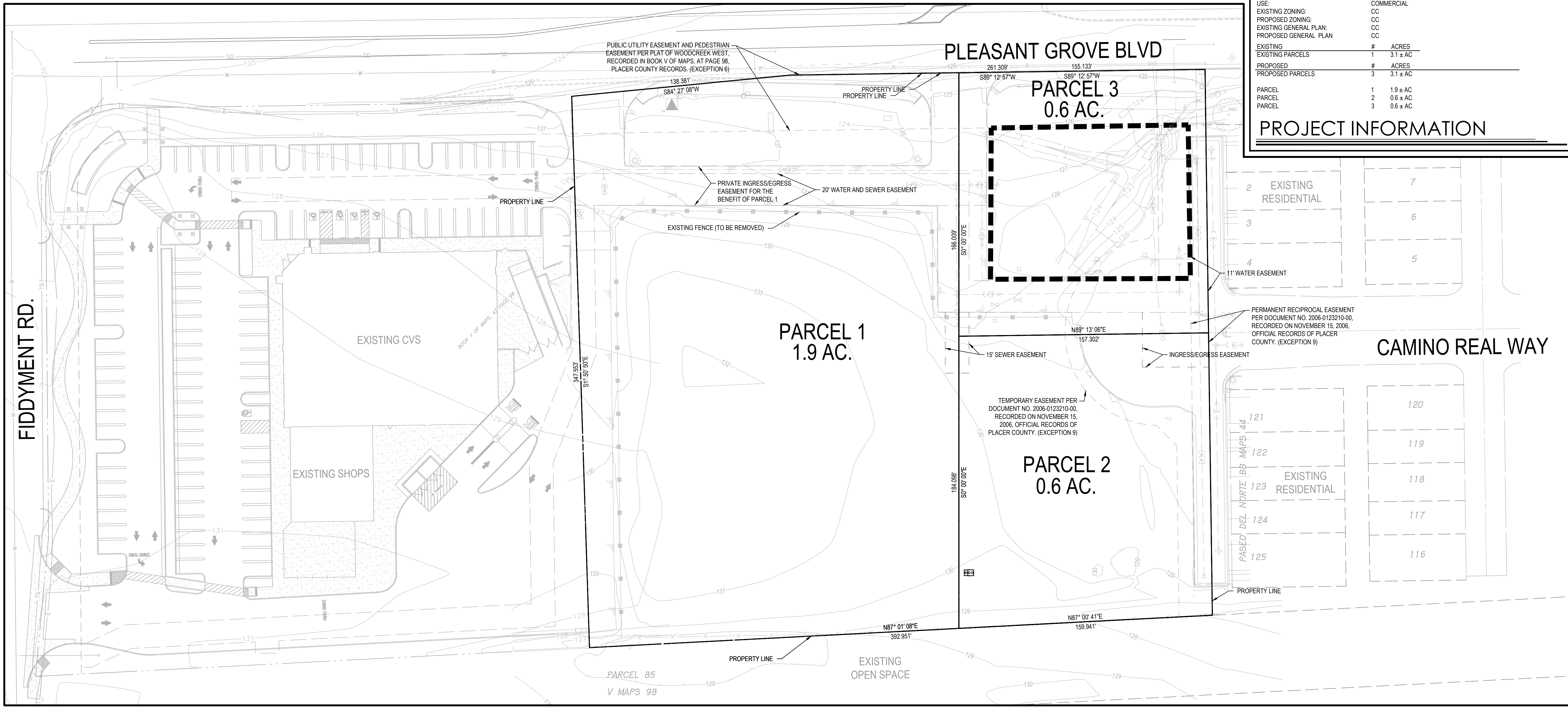
WATER:	CITY OF ROSEVILLE
WATERS:	CITY OF ROSEVILLE
GAS:	PG&E
ELECTRIC:	ROSEVILLE ELECTRIC
TELEPHONE:	ROSEVILLE TELEPHONE
CABLE TV:	COMCAST

SERVICE PROVIDERS

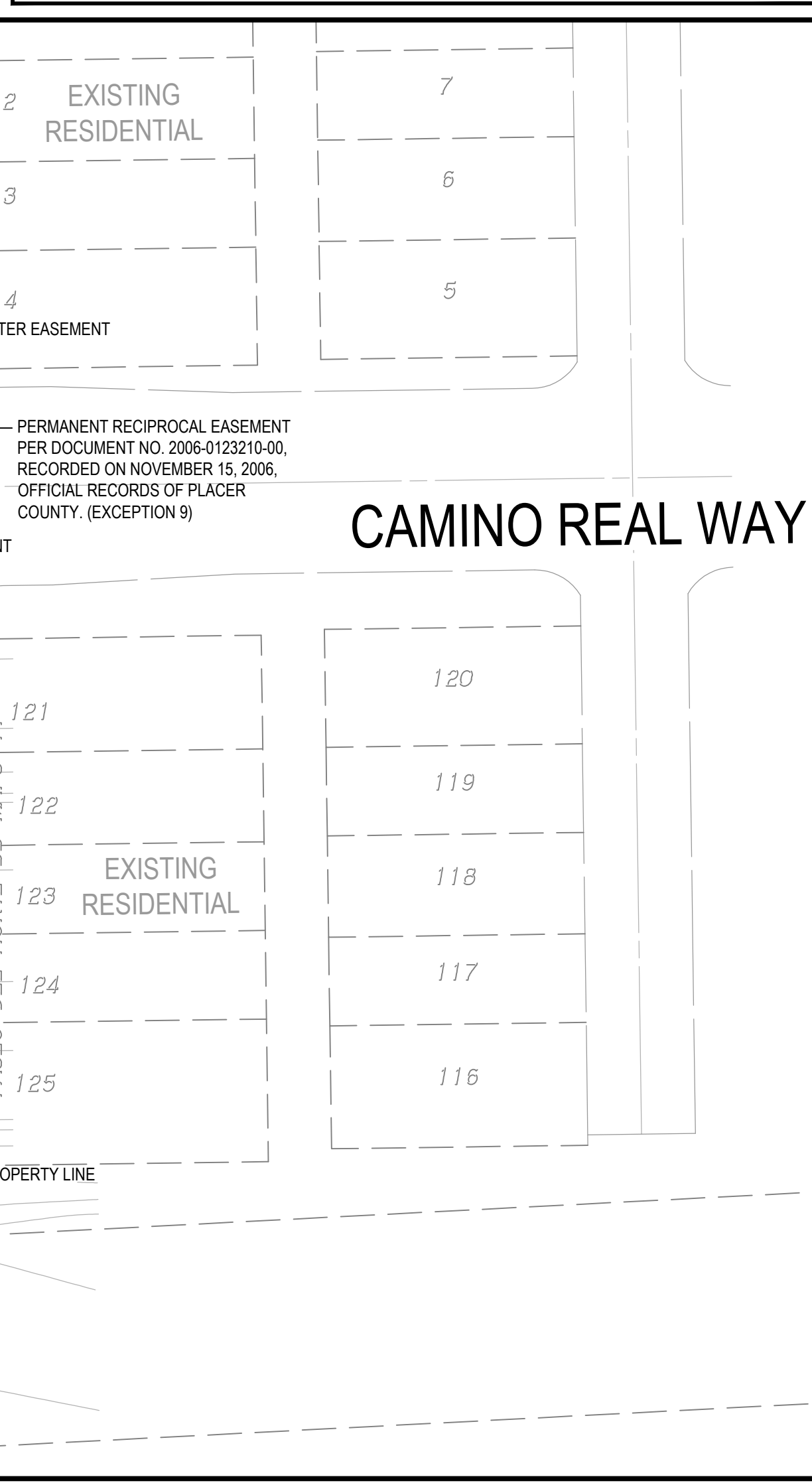
SCHOOL DISTRICT:	ROSEVILLE JOINT UNION HIGH SCHOOL DISTRICT ROSEVILLE ELEMENTARY SCHOOL DISTRICT
FIRE PROTECTION:	CITY OF ROSEVILLE
POLICE PROTECTION:	CITY OF ROSEVILLE
STORM DRAINAGE:	CITY OF ROSEVILLE
SOLID WASTE:	CITY OF ROSEVILLE

PROJECT INFORMATION

ASSESSOR PARCEL NUMBER	017-162-088-000
USE:	COMMERCIAL
EXISTING ZONING:	CC
PROPOSED ZONING:	CC
EXISTING GENERAL PLAN:	CC
PROPOSED GENERAL PLAN:	CC
EXISTING # ACRES	
EXISTING PARCELS	1 3.1 ± AC
PROPOSED # ACRES	
PROPOSED PARCELS	3 3.1 ± AC
PARCEL	1 1.9 ± AC
PARCEL	2 0.6 ± AC
PARCEL	3 0.6 ± AC



PROJECT INFORMATION



Dwg: X:\2020\20-001-1-00\GROCEERY OUTLET\DWG\PLANNING\20001-1\TMOI.DWG | Sheet: 02 of 23 | 10:33am | RICHENG

REVISIONS

NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE

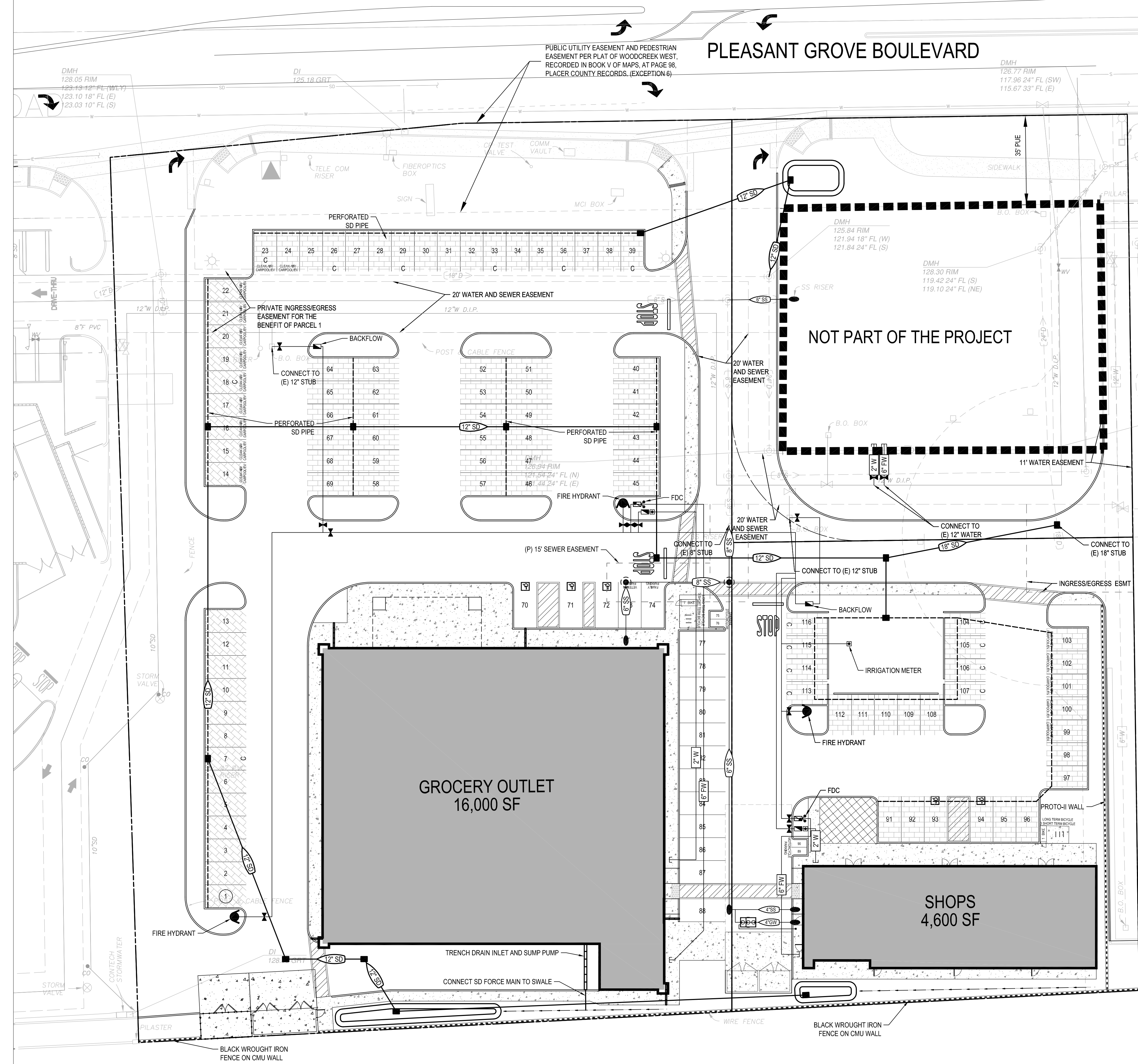
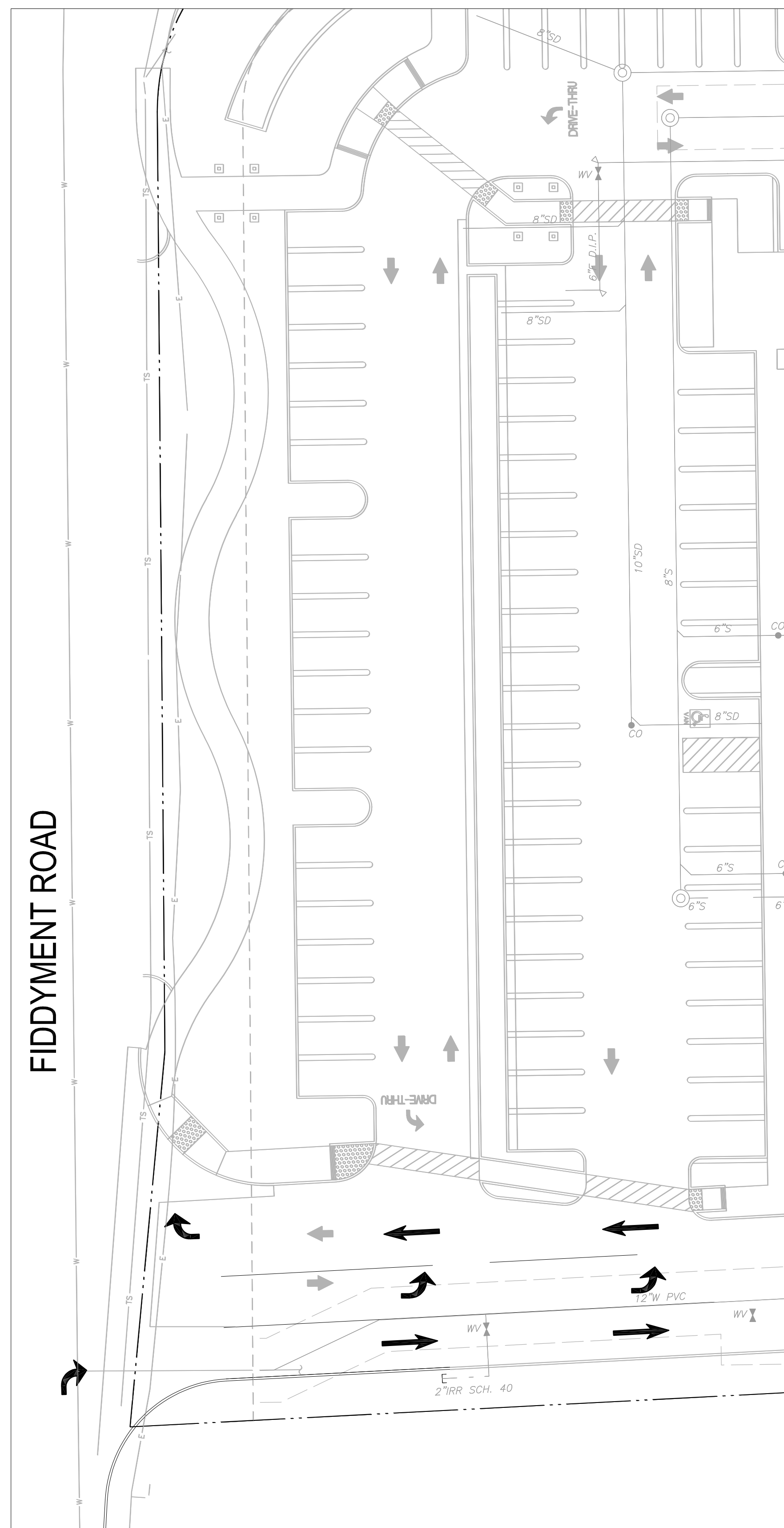
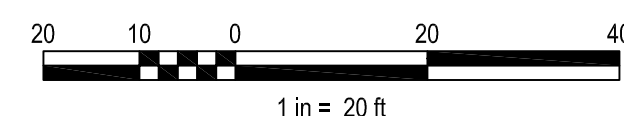
SCALE:	BENCH MARK	COMPUTED
HORIZ. 1" = 30'		DESIGNED
VERT. 1" = N/A		DRAWN
		PROJ. ENGR.

mp **MORTON & PITALO, INC.**
 CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
 Folsom • Fresno
 600 Coolidge Drive, Suite #140
 Folsom, CA 95630
 phone: (916) 964-7421
 web: www.mpengr.com

TENTATIVE MAP FOR
GROCEERY OUTLET
PLEASANT GROVE BLVD
 ROSEVILLE, CALIFORNIA

DATE: MARCH 23, 2023
 SHEET: 1
 OF: 1

NOT FOR CONSTRUCTION



Dwg: 20-0011-01-00 GROCERY OUTLET PRELIMINARY UTILITY PLAN DWG 1 - Sheet 12 of 22 11/17/2021

NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE

SCALE:
 HORIZ. 1" = 20'
 VERT. 1" = N/A

BENCH MARK

COMPUTED
 DESIGNED
 DRAWN
 PROJ. ENGR.



MORTON & PITALO, INC.
 CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
 Folsom • Fresno
 600 Coolidge Drive, Suite #140
 Folsom, CA 95630
 phone: (916) 984-7621
 web: www.mpengr.com

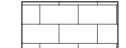

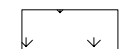
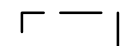
PRELIMINARY PLAN FOR
GROCERY OUTLET
 1751 PLEASANT GROVE BOULEVARD
 PRELIMINARY UTILITY PLAN
 ROSEVILLE, CALIFORNIA

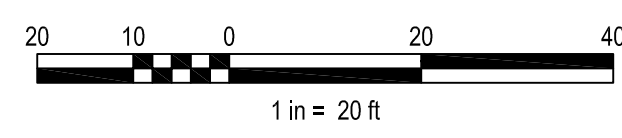
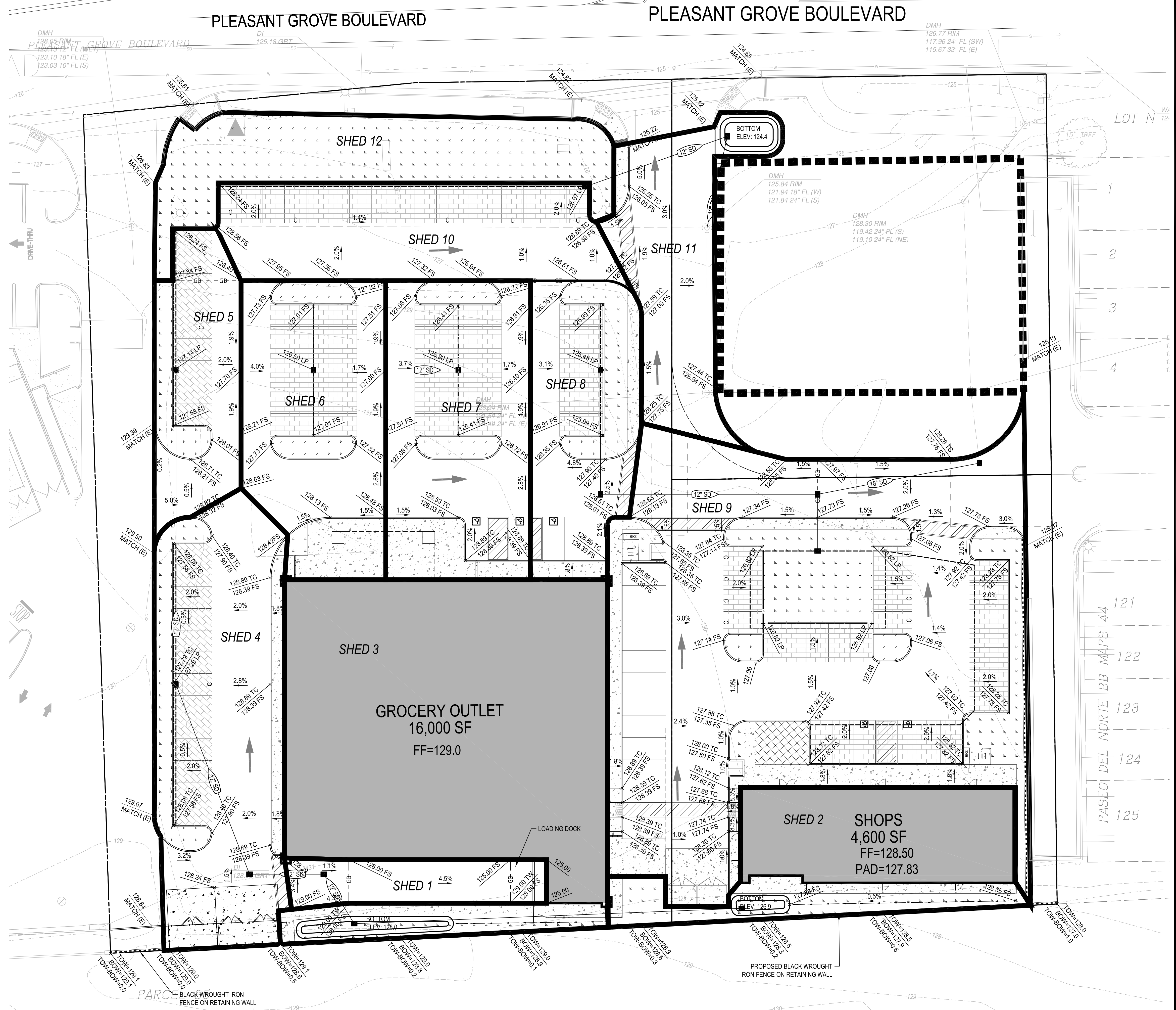
DATE	MARCH 23, 2023
SHEET	3
OF	3

EN CWJ#

NOT FOR CONSTRUCTION

GROCERY OUTLET

-  POROUS PAVEMENT
-  BIORETENTION BASIN
-  LANDSCAPE AREAS
-  APPROXIMATE UNDERGROUND DETENTION FOOTPRINT



Dwg. X:\2020\04-01-01-GROCERY OUTLET (2)S-HOUSE\BLENDED\DWG\ENGR\20230301-1-SHED MAP 231027.DWG | Scale: 1/2" = 20'-0" | 12/22/23 10:40am | MVAJL

NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE

SCALE:
HORIZ. 1" = 20'
VERT. 1" = N/A

BENCH MARK

COMPUTED
DESIGNED
DRAWN
PROJ. ENGR.

mp **MORTON & PITALO, INC.**
 CIVIL ENGINEERING • LAND PLANNING • LAND SURVEYING
 Folsom • Fresno
 600 Coolidge Drive, Suite #140
 Folsom, CA 95630
 phone: (916) 984-7621
 web: www.mpengr.com

SHED MAP FOR
GROCERY OUTLET
SHED MAP
1751 PLEASANT GROVE BOULEVARD
 ROSEVILLE, CALIFORNIA

DATE	MARCH 27, 2023
SHEET	1
OF	1


NOT FOR CONSTRUCTION

GENERAL PLANTING NOTES

- BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT, INCLUDING ALL APPLICABLE JURISDICTION REQUIREMENTS.
- THE CONTRACTOR SHALL VERIFY ALL EXISTING AND PROPOSED SITE ELEMENTS AND NOTIFY THE OWNER OF ANY DISCREPANCIES.
- THE CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES AND NOTIFY OWNER OF ANY CONFLICTS. UTILITY LOCATIONS SHOWN ARE APPROXIMATE AND THE DESIGNER DOES NOT GUARANTEE THAT LOCATIONS SHOWN ARE EXACT. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING IN THE VICINITY OF UNDERGROUND UTILITIES.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
- ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE OWNER OR OWNER'S REPRESENTATIVE PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E., MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
 - THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES. PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUND COVER PATTERNS) SHALL TAKE PRECEDENCE.
 - NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE OWNER OR OWNER'S REPRESENTATIVE IN WRITING (VIA PROPER CHANNELS).
 - THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE OWNER OR OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
- THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
- SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

DECLARATION OF WATER EFFICIENT LANDSCAPE ORDINANCE

I HAVE COMPLIED WITH THE CRITERIA OF THE WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED SUCH CRITERIA FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.


 BLAKE RHINEHART, LANDSCAPE ARCHITECT
 CA LICENSE #6255
 REGISTRATION
 EVERGREEN DESIGN GROUP
 11801 PIERCE STREET, SUITE 200
 RIVERSIDE, CA 92505

01-13-23
 DATE
 08-31-23
 EXP. DATE

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 3" LAYER OF DECORATIVE REDWOOD MULCH, NATURAL (UNDYED), IN ALL PLANTING AREAS (EXCEPT FOR TURF AREAS). ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

DESIGN INTENT DESCRIPTIONS

SCREENING INTENT:
 PLANTING ALONG THE SOUTH PROPERTY LINE WILL CONSIST OF LARGE, DROUGHT TOLERANT EVERGREEN SHRUBS, 10-15' TALL.

TRASH ENCLOSURES WILL BE SCREENED WITH LARGE, DROUGHT TOLERANT EVERGREEN SHRUBS, 10-15' TALL.

ENTRY TREATMENT:
 PLANTING AT THE ENTRY WILL BE HIGHLIGHTED BY LRGE SWATHS OF LOW GRASS PLANTING WITH COLORFUL ACCENT SHURB BORDERS. SHRUBS WILL BE LOW TO MAINTAIN SIGHT VISION LINES.
















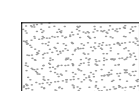

PLANT MATERIALS WILL BE WATERED BY A FULLY AUTOMATIC UNDERGROUND IRRIGATION SYSTEM. WATER EFFICIENCY AND CONSERVATION MEASURES WILL BE INCORPORATED.

PARKING LOT SHADE CALCULATIONS

TREE	100%	50%	25%
ARBUTUS MARINA 962 SF VALUE		1 TREES @ 481 = 481	7 TREES @ 245.5 = 1,718
LAGESTROEMIA INDICA 491 SF VALUE		3 TREES @ 245.5 = 736	
PISTACHE CHINENSIS 1590 SF VALUE		10 TREES @ 795 = 7,950	
PLATANUS X ACERFOLIA 962 SF VALUE			6 TREES @ 245.5 = 1,473
CALCULATED TOTAL	= 0 SF	= 8,807 SF	= 3,191 SF

PARKING AREA: 18,446 SF
 SHADING REQUIRED: 9,223 SF (50%)
 PERCENT SHADED: 11,998 SF (65%)

PLANT SCHEDULE

TREES	CODE	BOTANICAL / COMMON NAME	SIZE	WUCOLS	CAL	MATURE SIZE (W'XH')	QTY	REMARKS
	ARB MIY	ARBUTUS X 'MARINA' MARINA STRAWBERRY TREE	15 GAL	L		30' X 40'	8	PARKING LOT TREE/FRONTAGE TREE
	LAG IND	LAGESTROEMIA INDICA CRAPE MYRTLE	15 GAL	L		25' X25'	3	PARKING LOT TREE/ACCENT TREE
	PIS CHI	PISTACIA CHINENSIS CHINESE PISTACHE	15 GAL	L		35'-40'	10	PARKING LOT TREE
	PLA ACE	PLATANUS X ACERIFOLIA LONDON PLANE TREE	15 GAL	M		30' X 40'	6	STREET TREE/PARKING LOT TREE
SHRUBS	CODE	BOTANICAL / COMMON NAME	SIZE	WUCOLS	CAL	MATURE SIZE (W'XH')	SPACING	QTY
	CAL ACF	CALAMAGROSTIS X ACUTIFLORA FEATHER REED GRASS	5 GAL	L		3X5	48" o.c.	30
	COL SUN	COLEONEMA PULCHRUM 'SUNSET GOLD' SUNSET GOLD BREATH OF HEAVEN	5 GAL	L		2X4	48" o.c.	16
	COR BSI	CORDYLINE BANKSII CORDYLINE	5 GAL	M		2X2	24" o.c.	7
	HET ARB	HETEROMELES ARBUTIFOLIA TOYON	5 GAL	L		6X8	96" o.c.	28
	JUN PAT	JUNCUS PATENS CALIFORNIA GRAY RUSH	1 GAL	M		2X3	24" o.c.	52
	LAG CHI	LAGESTROEMIA INDICA 'MONIK' TM CHICA PINK DWARF CRAPE MYRTLE	15 GAL	VL		6'-8'	72" o.c.	27
	LAV ANG	LAVANDULA ANGSTIFOLIA ENGLISH LAVENDER	1 GAL	L		2'-3'	42" o.c.	221
	MUH RIG	MUHLENBERGIA RIGENS DEER GRASS	5 GAL	L		3'-4'	54" o.c.	172
	PRU COM	PRUNUS CAROLINIANA 'COMPACTA' COMPACT CAROLINA LAUREL CHERRY	5 GAL	L		6'-8'	60" o.c.	6
	ROS CAL	ROSA CALIFORNICA CALIFORNIA WILD ROSE	5 GAL	L		4X5	60" o.c.	6
	WES FRU	WESTRINGIA FRUTICOSA COAST ROSEMARY	5 GAL	L		3X4	48" o.c.	94
GROUND COVERS	BOTANICAL / COMMON NAME	SIZE	WUCOLS	CAL	MATURE SIZE (W'XH')	SPACING	QTY	
	ARCTOSTAPHYLOS LIVA-URSI 'POINT REYES' POINT REYES KINKINNICK	FLAT	L		1'X4'	30" o.c.	628	
	CONCRETE STEP OUT BY OTHERS	-					384 SF	

POTTING NOTE

ALL POTS SHALL RECEIVE PLANT MATERIAL AS SHOWN ON LANDSCAPE PLANTING PLAN. ADDITIONALLY CONTRACTOR SHALL INSTALL FLOWERING ANNUALS IN THE REMAINDER OF THE PLANTING AREA WITHIN THE POT. CONTRACTOR TO SUBMIT FLOWERING ANNUAL SELECTION TO THE OWNER AND LANDSCAPE ARCHITECT.

ALL POTS TO RECEIVE IRRIGATION FROM THE AUTOMATED IRRIGATION SYSTEM, REFER TO IRRIGATION PLANS.

POTS SHALL BE CENTERED ON THE ADJACENT WINDOW OR BUILDING WALL. CONFIRM FINAL LOCATION WITH THE OWNER PRIOR TO INSTALLATION.

POTS TO BE SELECTED BY OWNER

PROJECT TEAM

LANDSCAPE ARCHITECT:
 EVERGREEN DESIGN GROUP
 11801 PIERCE STREET, SUITE 200
 RIVERSIDE, CA 92505
 800-680-6630
 WWW.EVERGREENDESIGNGROUP.COM
 CONTACT: BLAKE RHINEHART, PLA
 EMAIL: BLAKE@EVERGREENDESIGNGROUP.COM

PLANTING AND IRRIGATION GUARANTEE

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THAT ALL NEWLY INSTALLED AND EXISTING PLANTS SHALL SURVIVE FOR ONE YEAR AFTER FINAL OWNER ACCEPTANCE OF THE INSTALLATION WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR APPROPRIATE WATERING OF THE LANDSCAPE THROUGH INSTALLATION OF A PROPERLY DESIGNED IRRIGATION SYSTEM. THE OWNER SHALL APPROVE THE SYSTEM DESIGN BEFORE INSTALLATION OF PLANTS OR IRRIGATION.

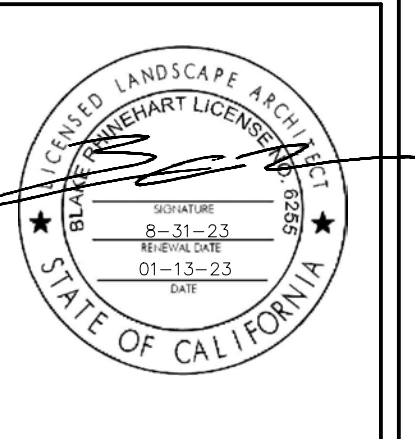
LANDSCAPE CALCULATIONS

SITE DATA
 TOTAL SITE AREA: 112,540 SF

SITE LANDSCAPE AREA
 LANDSCAPE PROVIDED: 17,600 SF (15.6% OF SITE)

TURF AREA PROVIDED: 0 SF

PARKING SPACES PROVIDED: 133 SPACES
 PARKING LOT TREES PROVIDED: 26 TREES



Owner

Project Name
GROCERY OUTLET
 PLEASANT GROVE BLVD.
 ROSEVILLE, CA

LANDSCAPE COVER SHEET

Date	Comment
1/13/23	ENTITLEMENT CYCLE 2

Project Number
 Date: 01-13-23
 Drawn By: BR
 Checked By: BR/RM

L-0

PLANTING SPECIFICATIONS

GENERAL

- A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR**
- ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
 - A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
- B. SCOPE OF WORK**
- WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK SPECIFIED HEREIN AND / OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
 - ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
 - THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.

PRODUCTS

- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.**
- B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS**
- FURNISH NURSERY-GROWN PLANTS, COMPLYING WITH THE AMERICAN STANDARD FOR NURSERY STOCK (ANSI Z60.1-2014). PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITH A SPECIES SHALL HAVE SIMILAR SIZE AND SHALL BE OF A FORM TYPICAL FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.
 - ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENKING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
 - TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
 - ANY PLANT DEEMED UNACCEPTABLE BY THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE OWNER OR OWNER'S REPRESENTATIVE SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL.
 - ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. FRUITING TREES SHALL BE STANDARD.
 - CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
 - MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT, MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
 - ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
- C. SOD:** PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
- D. TOPSOIL:** SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/2 INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
- E. COMPOST:** WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 8; MOISTURE CONTENT 55 TO 65 PERCENT BY WEIGHT; 100 PERCENT PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECIGRAMS/L; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
- F. FERTILIZER:** GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL-TESTING AGENCY (SEE BELOW).
- G. MULCH:** SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
- H. TREE STAKING AND GUYING**
- STAKES: 6' LONG GREEN METAL T-POSTS.
 - GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
 - STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
- I. STEEL EDGING:** PROFESSIONAL STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN. ACCEPTABLE MANUFACTURERS INCLUDE COOL-MET OR APPROVED EQUAL.
- J. PRE-EMERGENT HERBICIDES:** ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABELED RATES.

METHODS

- A. SOIL PREPARATION**
- BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
 - SOIL TESTING:
 - AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LABORATORY SHALL CONTAIN LESS THAN ONE QUART OF SOIL, TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
 - THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (CEC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
 - THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
 - THE SOIL REPORT PREPARED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR ANY OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
 - THE CONTRACTOR SHALL INCREASE SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
 - FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
 - TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
 - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
 - TREES, SHRUBS, AND PERENNIALS: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
 - "CLAY BUSTER" OR EQUAL - USE MANUFACTURER'S RECOMMENDED RATE
 - IRON SULPHATE - 2 LBS. PER CU. YD.
- IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
- BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +/-0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
 - CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE GENERAL CONTRACTOR, OWNER, OR OWNER'S REPRESENTATIVE.
- ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.
- B. SUBMITTALS**
- THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE OWNER OR OWNER'S REPRESENTATIVE, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
 - SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREES/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
 - SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRICS (IF ANY).
 - WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
- C. GENERAL PLANTING**
- REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
 - EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
 - POSITION THE TREES AND SHRUBS IN THEIR INTENDED LOCATION AS PER THE PLAN. NOTIFY THE OWNERS

- REPRESENTATIVE FOR INSPECTION AND APPROVAL OF ALL POSITIONING OF PLANT MATERIALS.
- TRENCHING NEAR EXISTING TREES:**
- CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1' FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
 - ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
 - ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

- D. TREE PLANTING**
- TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE WIDTH OF THE ROOTBALL LESS TWO TO FOUR INCHES.
 - SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
 - FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
 - INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
 - BACKFILL THE TREE HOLE WITH THE EXISTING TOPSOIL FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
 - TREES SHALL NOT BE STAKED UNLESS THE JURISDICTION OR LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL REMOVE THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
 - 1"-2" TREES (OR #16 GAL - 24" BOX): TWO STAKES PER TREE
 - 2"-1/2" TREES (OR 36" - 48" BOX): THREE STAKES PER TREE
 - TREES OVER 4" (OR 48" - 60" BOX): GUY AS NEEDED
 - MULTI-TRUNK TREES: THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
 - UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE. COVER THE INTERIOR OF THE TREE RING WITH MULCH (TYPE AND DEPTH PER PLANS).
 - FOR TREES IN TURF AREAS, DO NOT PLANT GRASS ALL THE WAY TO THE TRUNK OF THE TREE. LEAVE THE AREA OVER THE ROOT BALL AND INSTALL MULCH WITH AT LEAST 2" OF SPECIFIED MULCH. SEE MULCH SPECIFICATION FOR ADDITIONAL INFORMATION.

- E. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING**
- DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
 - INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE.
 - WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.

- F. SODDING**
- SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
 - LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
 - LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS. BUTT ENDS AND SIDES OF SOD STRIPS - DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
 - ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
 - WATER THE SOD THOROUGHLY WITH A FINE MIST IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.

- I. MULCH**
- INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
 - DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE. MULCH AT THE BASE OF SHRUBS SHALL BE A MAXIMUM 1" DEPTH OVER ROOT BALL.
 - MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. FINISH GRADE OF MULCH AT CURBS AND SIDEWALKS SHALL BE 1" LOWER THAN THE ADJACENT CURB OR SIDEWALK. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.

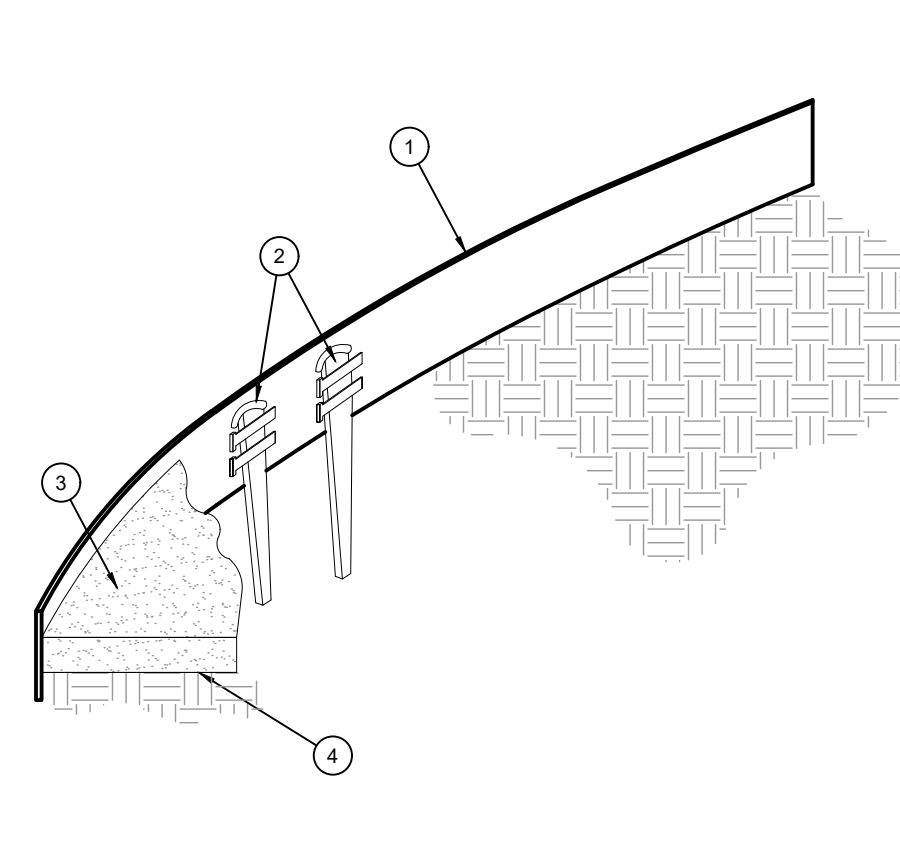
- J. CLEAN UP**
- DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
 - DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.

- K. INSPECTION AND ACCEPTANCE**
- UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
 - WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
 - THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.

- L. LANDSCAPE MAINTENANCE**
- THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTling OF PLANTS THAT HAVE SETTLED, MOVING AND AERATION OF LAWNS, WEEDING, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
 - SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
 - TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
 - THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
 - ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
 - SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1 1/2 INCHES BEFORE FIRST MOWING. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESODDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOVED.

- M. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS**
- THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTIONS OF THE IRRIGATION SYSTEM WHICH OPERATE IMPROPERLY.
 - AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR THE REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.

- N. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.**

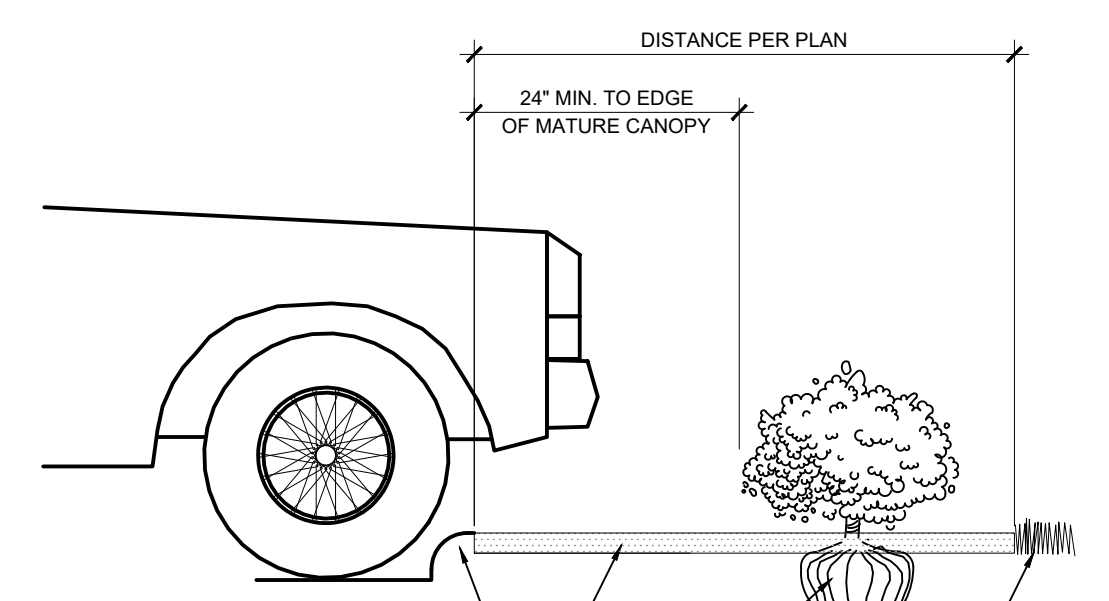


- ROLLED-TOP STEEL EDGING PER PLANS.
- TAPERED STEEL STAKES.
- MULCH, TYPE AND DEPTH PER PLANS.
- FINISH GRADE.

- NOTES:**
- INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
 - BOTTOM OF EDGING SHALL BE BURED A MINIMUM OF 1" BELOW FINISH GRADE.
 - TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

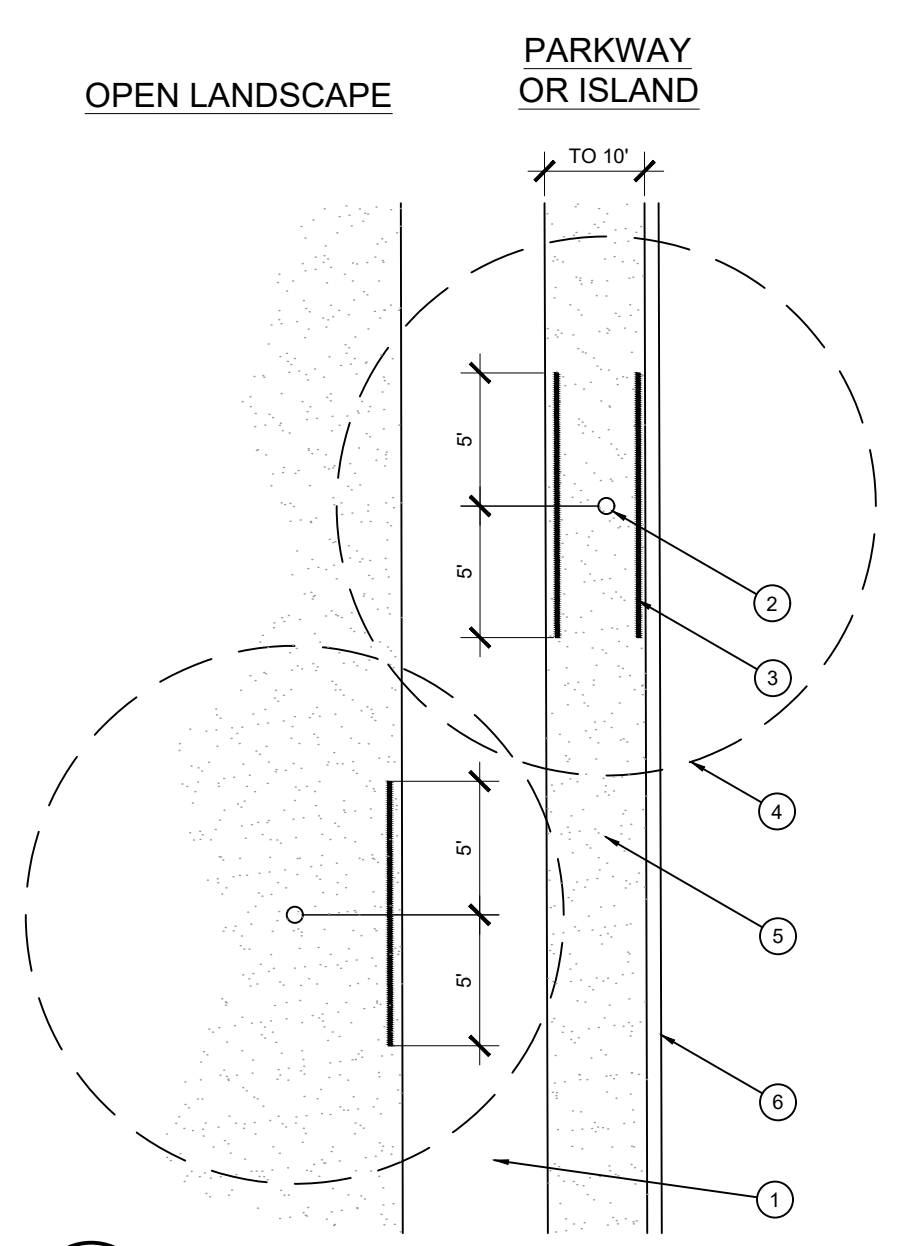
D STEEL EDGING

SCALE: NOT TO SCALE



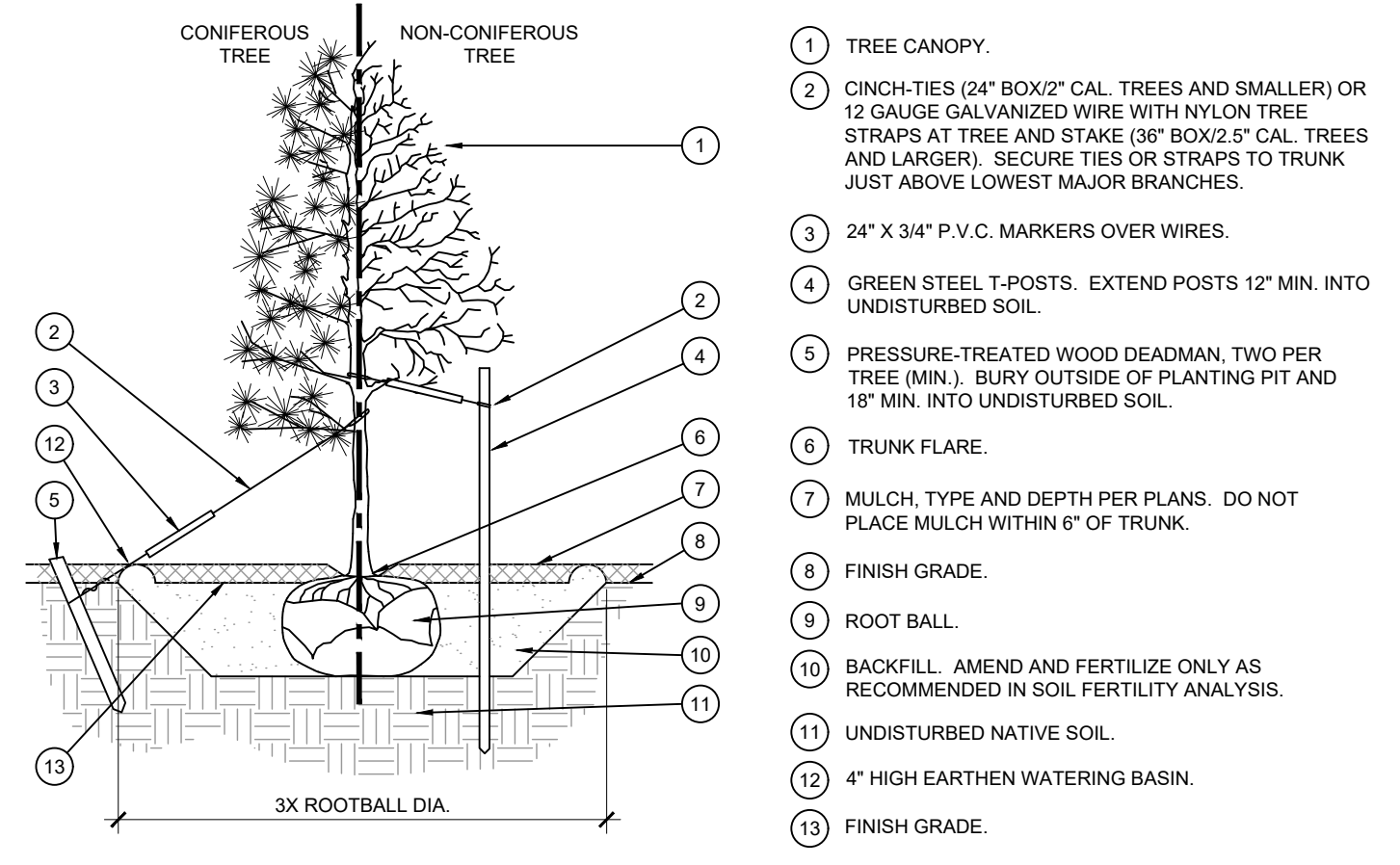
E PLANTING AT PARKING AREA

SCALE: NOT TO SCALE



F ROOT BARRIER - PLAN VIEW

SCALE: NOT TO SCALE

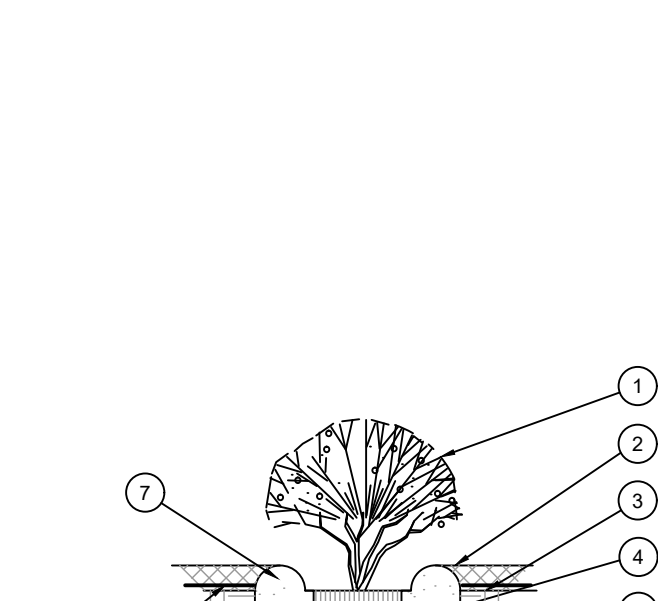


- ROLLED-TOP STEEL EDGING PER PLANS.
- TAPERED STEEL STAKES.
- MULCH, TYPE AND DEPTH PER PLANS.
- FINISH GRADE.

- NOTES:**
- INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
 - BOTTOM OF EDGING SHALL BE BURED A MINIMUM OF 1" BELOW FINISH GRADE.
 - TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.

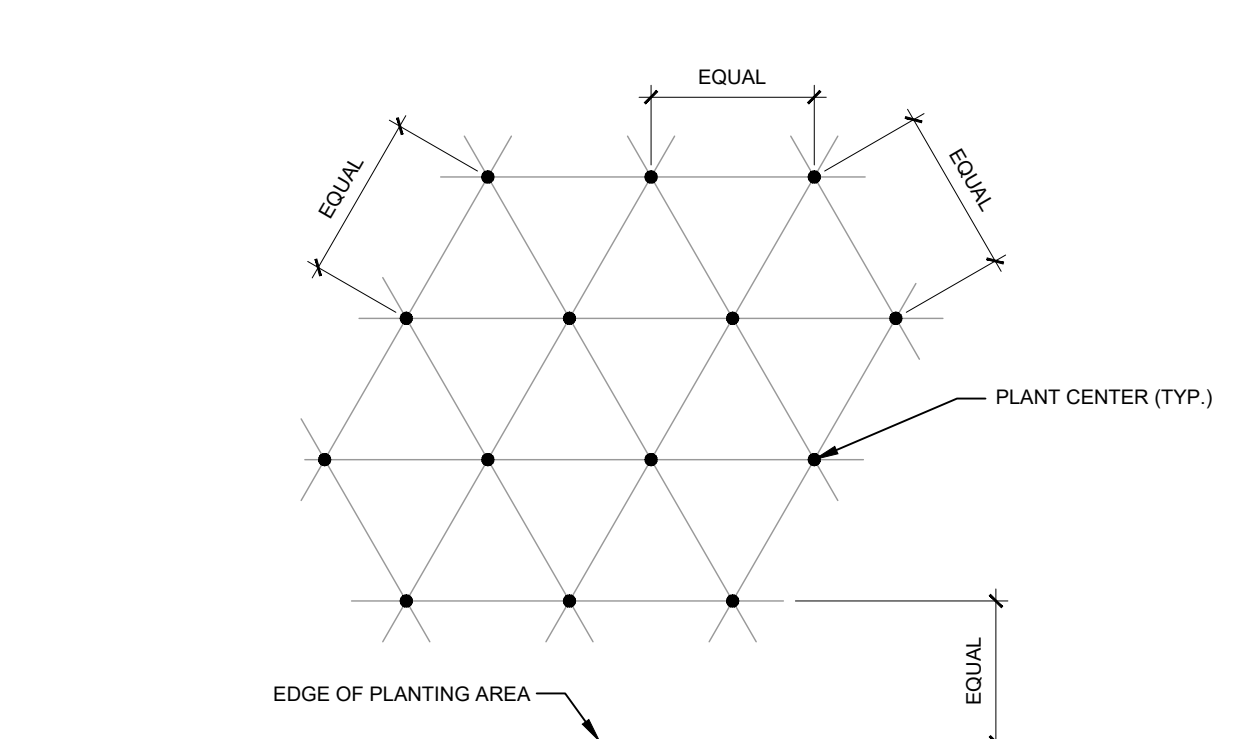
A TREE PLANTING

SCALE: NOT TO SCALE



B SHRUB AND GROUNDCOVER PLANTING

SCALE: NTS



NOTE: ALL PLANTS SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING (EXCEPT WHERE SHOWN ON PLANS AS INFORMAL GROUPINGS). REFER TO PLANT LEGEND FOR SPACING DISTANCE BETWEEN PLANTS.

STEP 1: DETERMINE TOTAL PLANTS FOR THE AREA WITH THE FOLLOWING FORMULA:
TOTAL AREA / AREA DIVIDER = TOTAL PLANTS

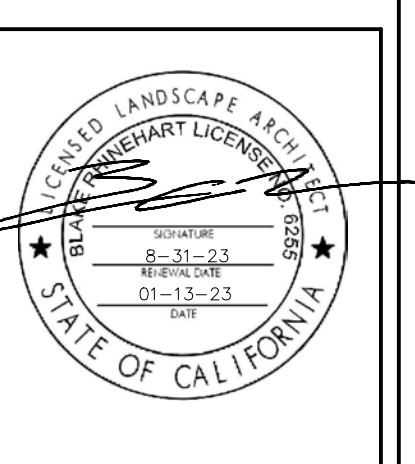
PLANT SPACING	AREA DIVIDER	PLANT SPACING	AREA DIVIDER
6"	0.22	18"	1.95
8"	0.39	24"	3.46
10"	0.54	30"	5.44
12"	0.87	36"	7.79
15"	1.35		

STEP 2: SUBTRACT THE ROW(S) OF PLANTS THAT WOULD OCCUR AT THE EDGE OF THE PLANTED AREA WITH THE FOLLOWING FORMULA: TOTAL PERIMETER LENGTH / PLANT SPACING = TOTAL PLANT SUBTRACTION

EXAMPLE: PLANTS AT 18" O.C. IN 100 SF PLANTING AREA, 40 LF PERIMETER
STEP 1: 100 SF / 1.95 = 51 PLANTS
STEP 2: 51 PLANTS - (40 LF / 1.95 + 21 PLANTS) = 30 PLANTS TOTAL

C PLANT SPACING

SCALE: NTS



Owner

Project Name

GROCERY OUTLET
PLEASANT GROVE BLVD.
ROSEVILLE, CA

LANDSCAPE PLANTING DETAILS & SPECS

Date	Comment
10/23	ENTITLEMENT CYCLE 2

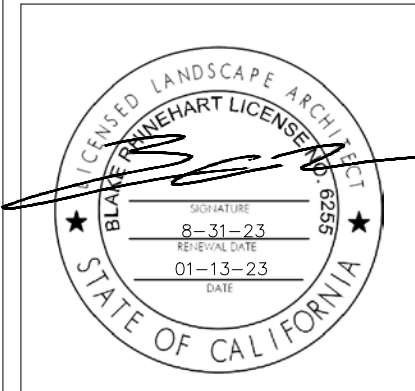
Project Number

Date **01-13-23**

Drawn By **BR**

Checked By **BR/RM**

LP-2



Owner

Project Name

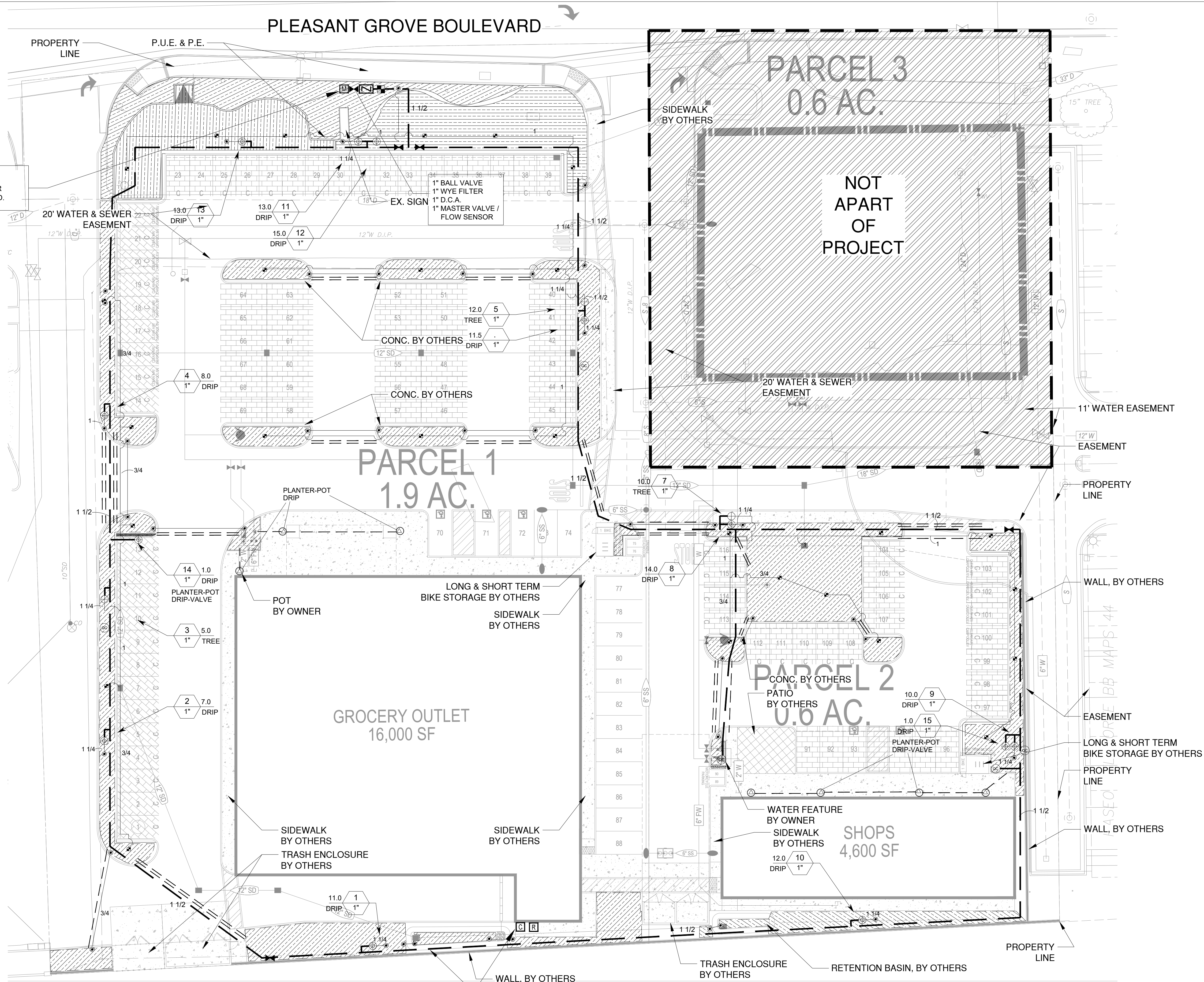
GROCERY OUTLET
PLEASANT GROVE BLVD.
ROSEVILLE, CA

IRRIGATION PLAN

Date	Comment
1/13/23	ENTITLEMENT CYCLE 2

Project Number	
Date	01-13-23
Drawn By	BR
Checked By	BR/RM

LI-1



POINT OF CONNECTION
CONNECT MAINLINE DOWNSTREAM OF 1" WATER METER (BY OTHERS). VERIFY LOCATION IN FIELD.

CONTROLLER NOTE
LOCATE CONTROLLER AT LOCATION SHOWN ON PLAN. VERIFY LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE.

120 VAC POWER TO CONTROLLER LOCATION IS NOT WITHIN THE IRRIGATION CONTRACTOR'S SCOPE OF WORK, AND SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLER TO 120 VAC SHALL BE PERFORMED BY THE IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR SHALL COORDINATE LOCATION OF WIRE SLEEVE PENETRATIONS THROUGH BUILDING WITH OWNER AND GENERAL CONTRACTOR. STATION RUN ORDER SHALL MATCH PLANS.

IRRIGATION DISCLAIMER

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE.

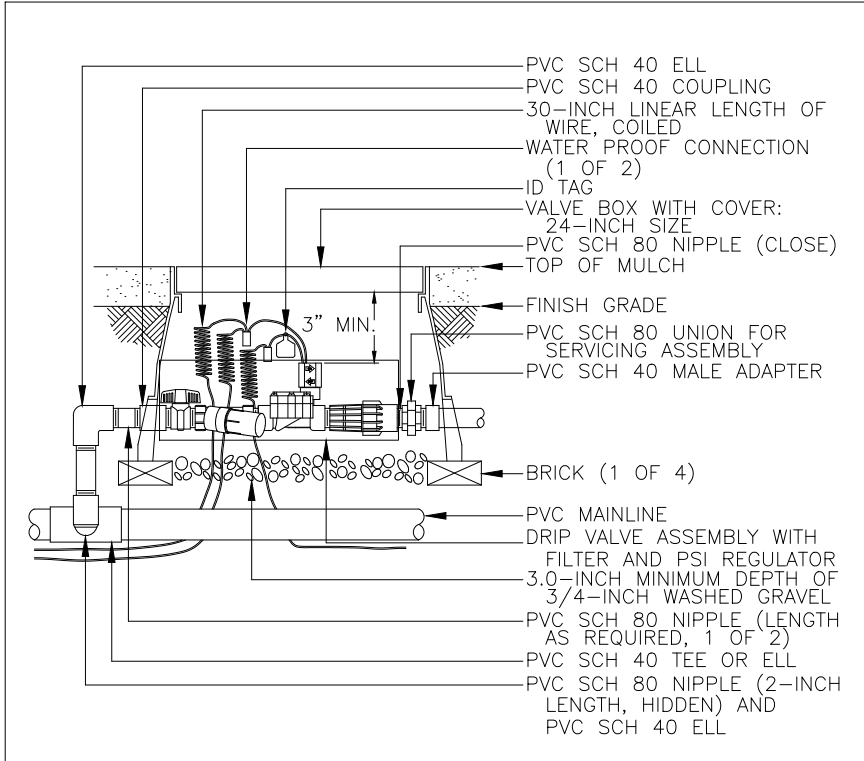
AUTOMATIC DRAIN VALVES AND AIR RELIEF VALVES

INSTALL AUTOMATIC DRAIN VALVES AT THE LOW POINTS OF EACH LATERAL LINE (MIN. 2 PER VALVE) AS PER DETAIL ON SHEET LI-2. INSTALL AIR RELIEF VALVES ON DRIP SYSTEMS AT THE LOCATIONS SHOWN ON THE PLANS, AS PER DETAILS.

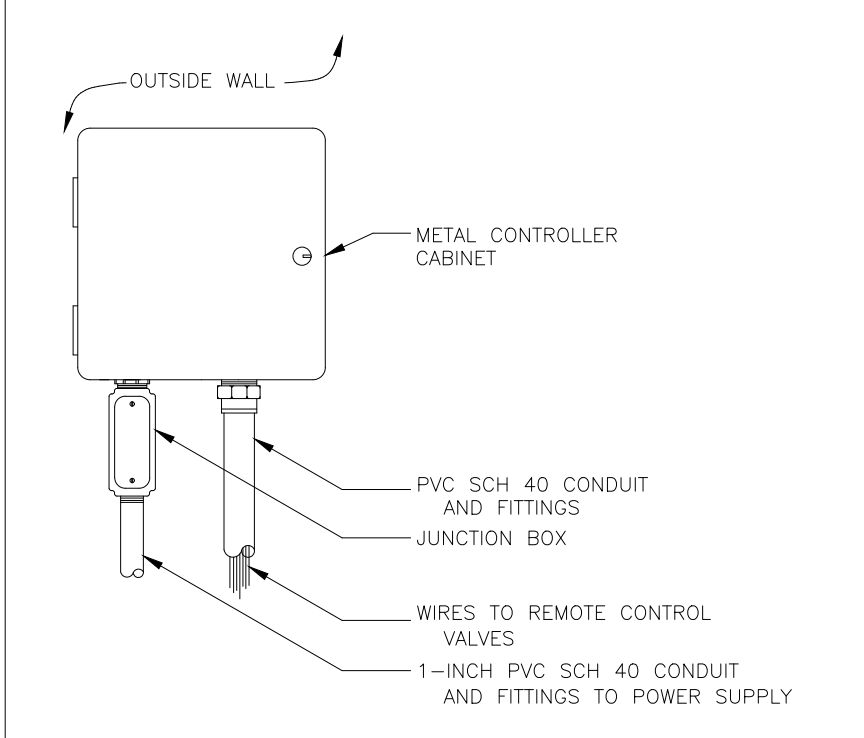
SLEEVING / WIRING NOTES:

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES. FOR PLAN CLARITY, ONLY SOME REPRESENTATIVE SLEEVES ARE SHOWN; SOME SLEEVES MAY NOT BE SHOWN.

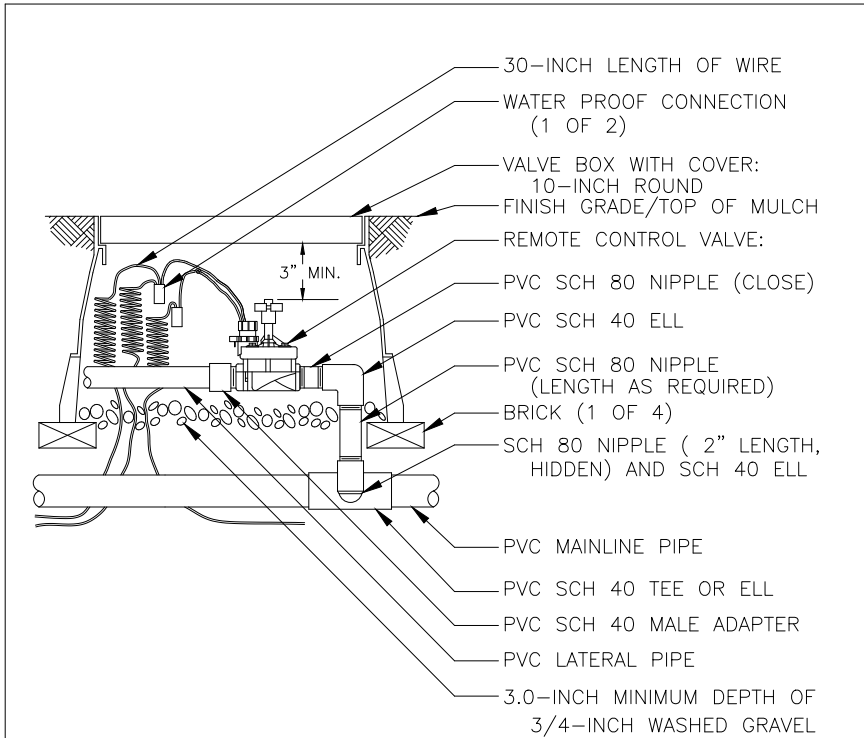
REFER TO SHEET LI-3 FOR IRRIGATION SCHEDULE, NOTES AND CALCULATIONS



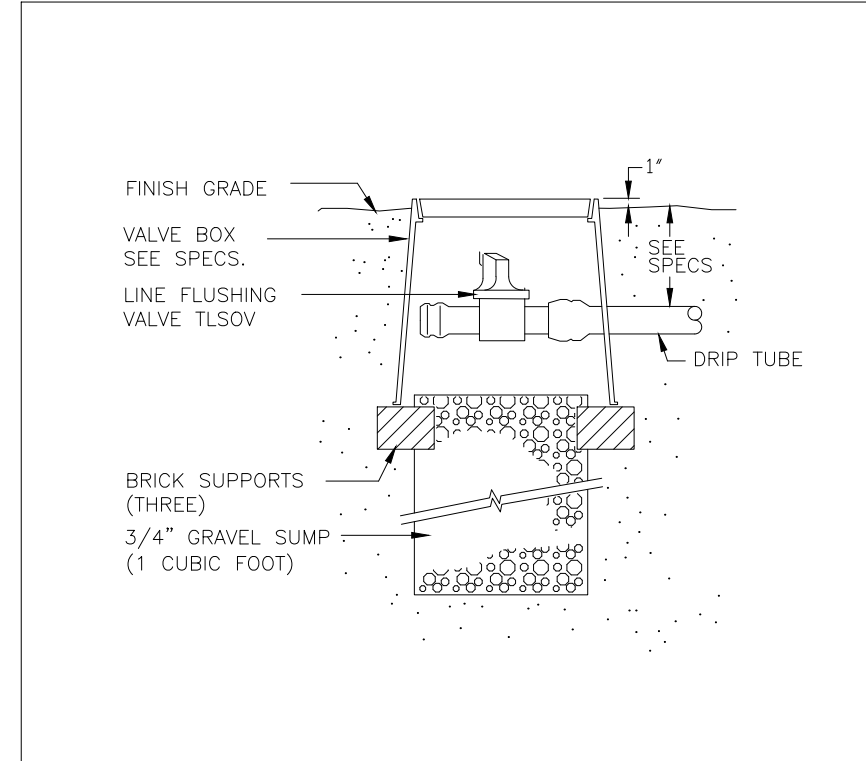
CONTROL ZONE KIT N.T.S.



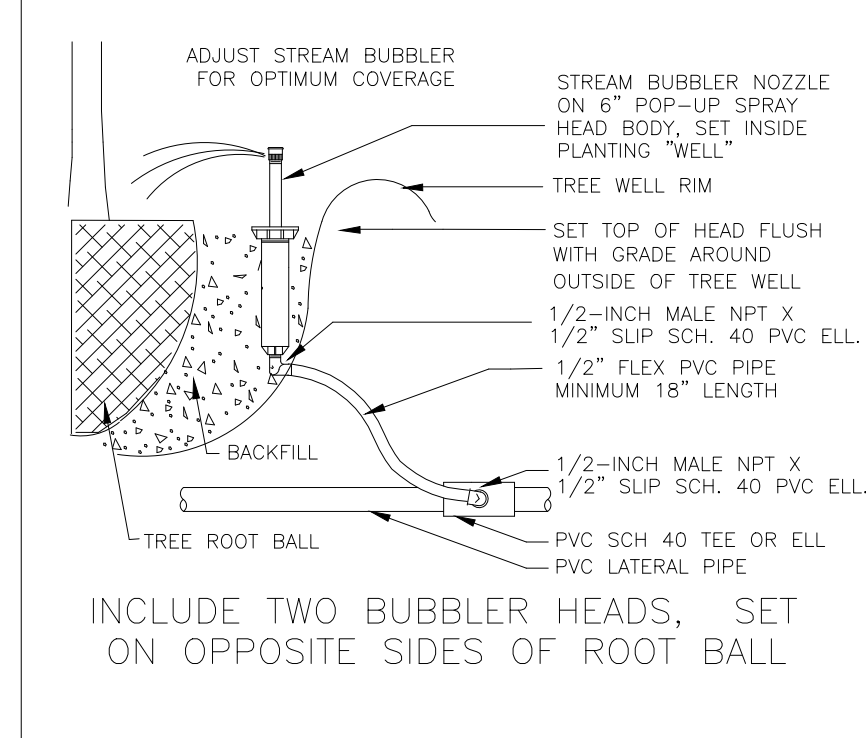
WALL MOUNT CONTROLLER N.T.S.



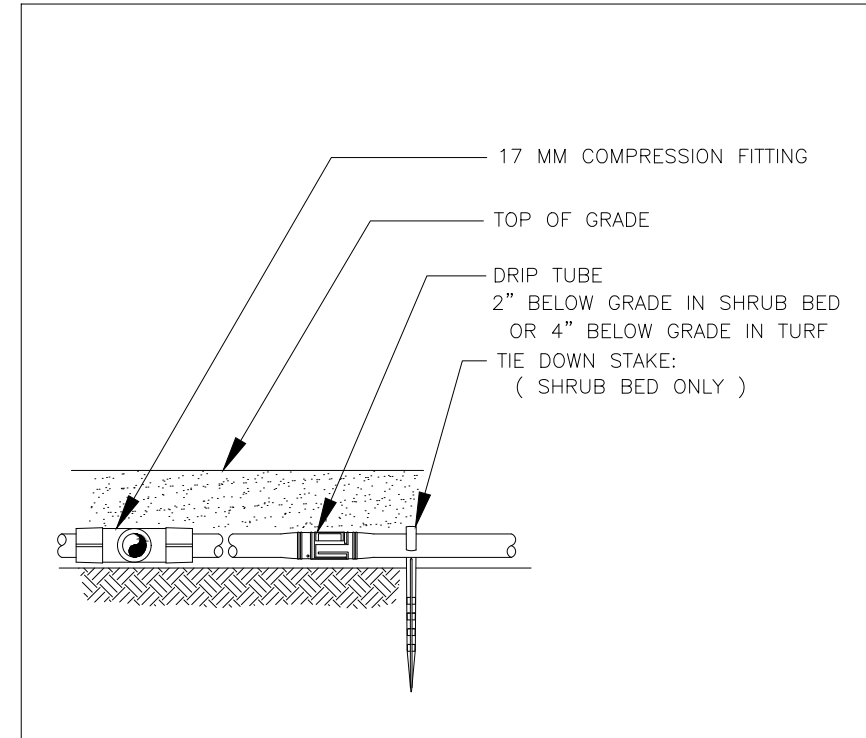
REMOTE CONTROL VALVE N.T.S.



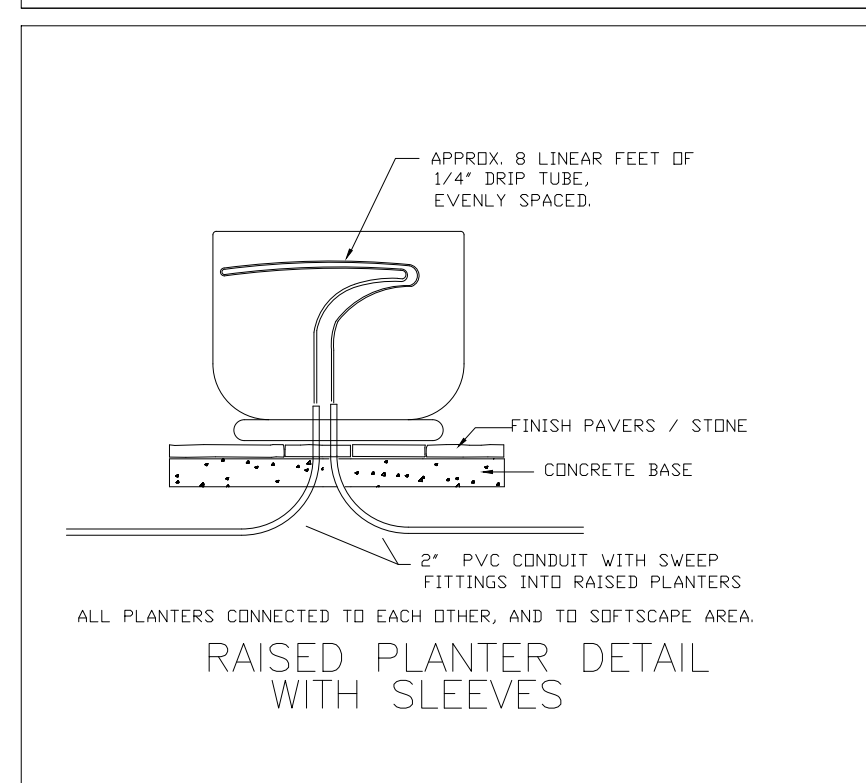
MANUAL LINE FLUSH VALVE N.T.S.



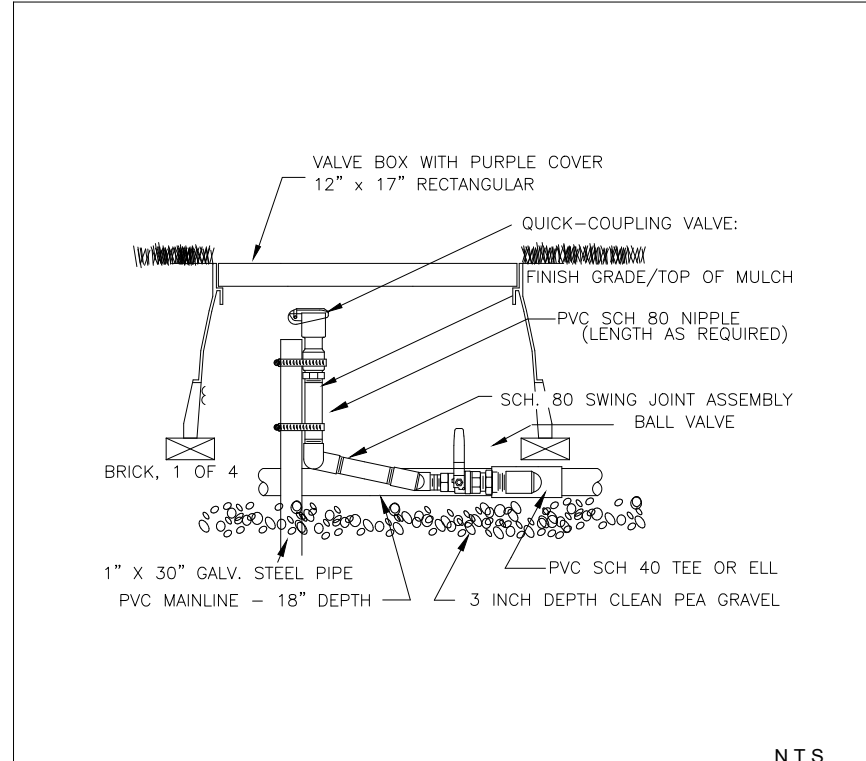
TREE BUBBLER N.T.S.



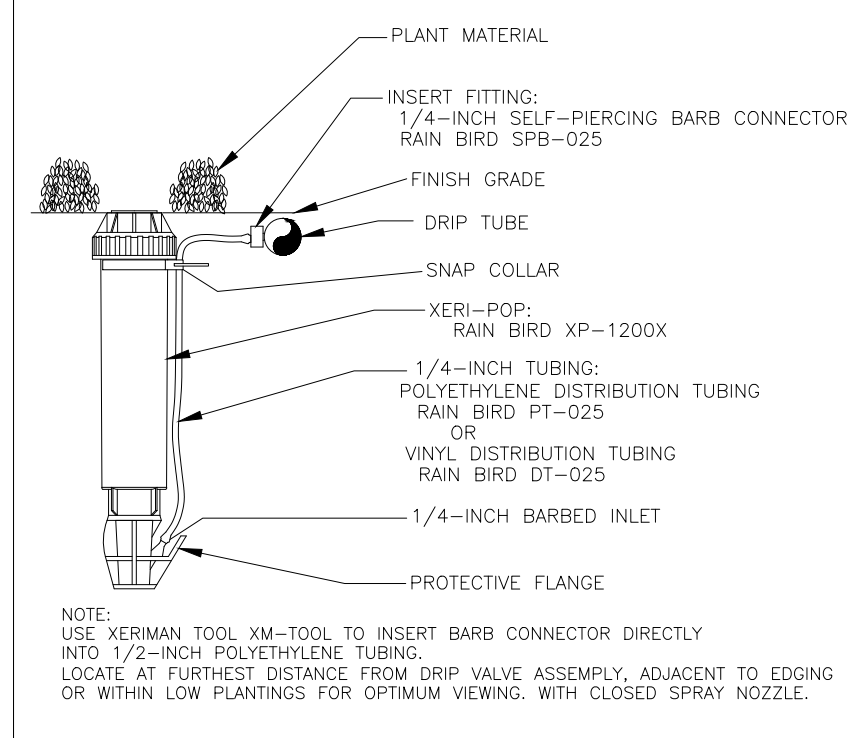
DRIP TUBE N.T.S.



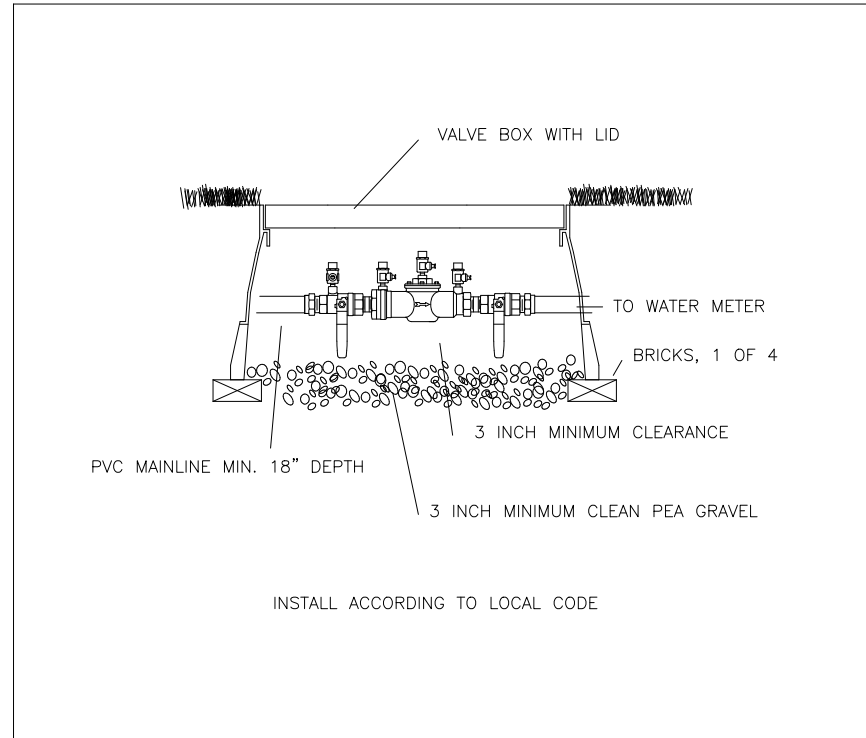
RAISED PLANTER DETAIL N.T.S.



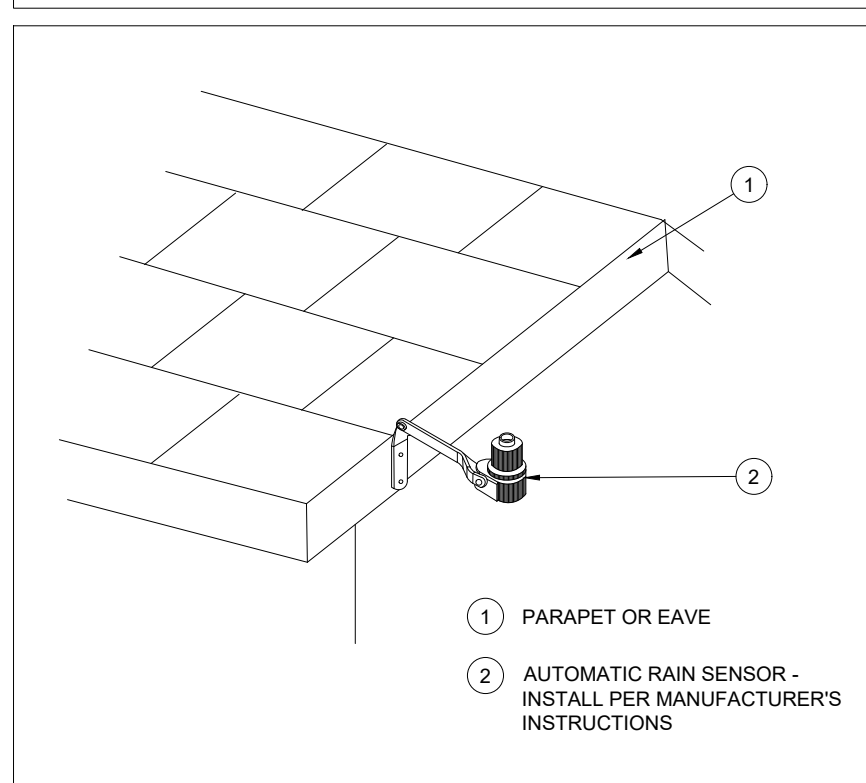
QUICK COUPLER VALVE WITH PVC BALL VALVE N.T.S.



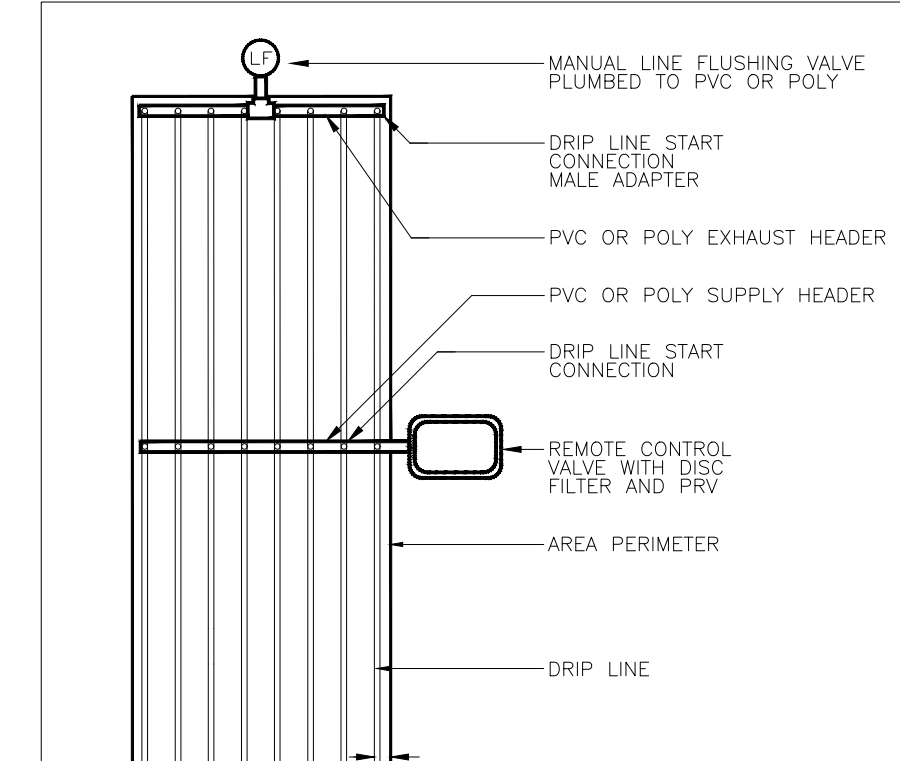
DRIP ZONE INDICATOR N.T.S.



DOUBLE CHECK BACKFLOW N.T.S.

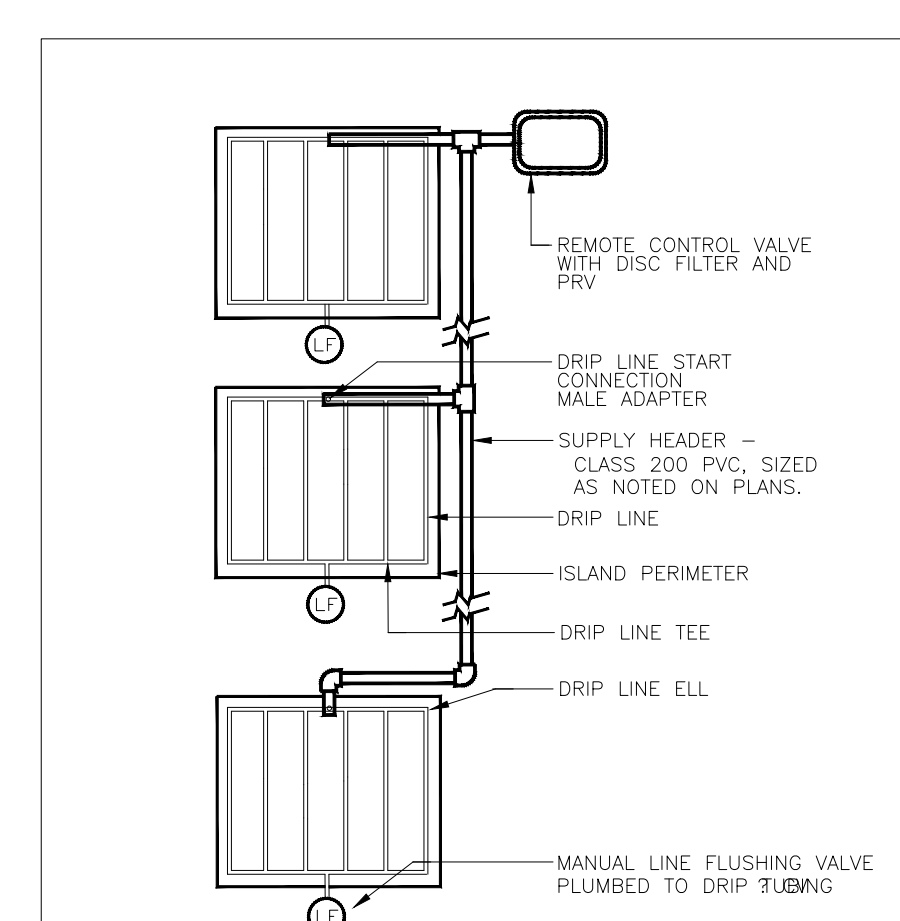


RAIN SENSOR, ROOF MOUNT N.T.S.



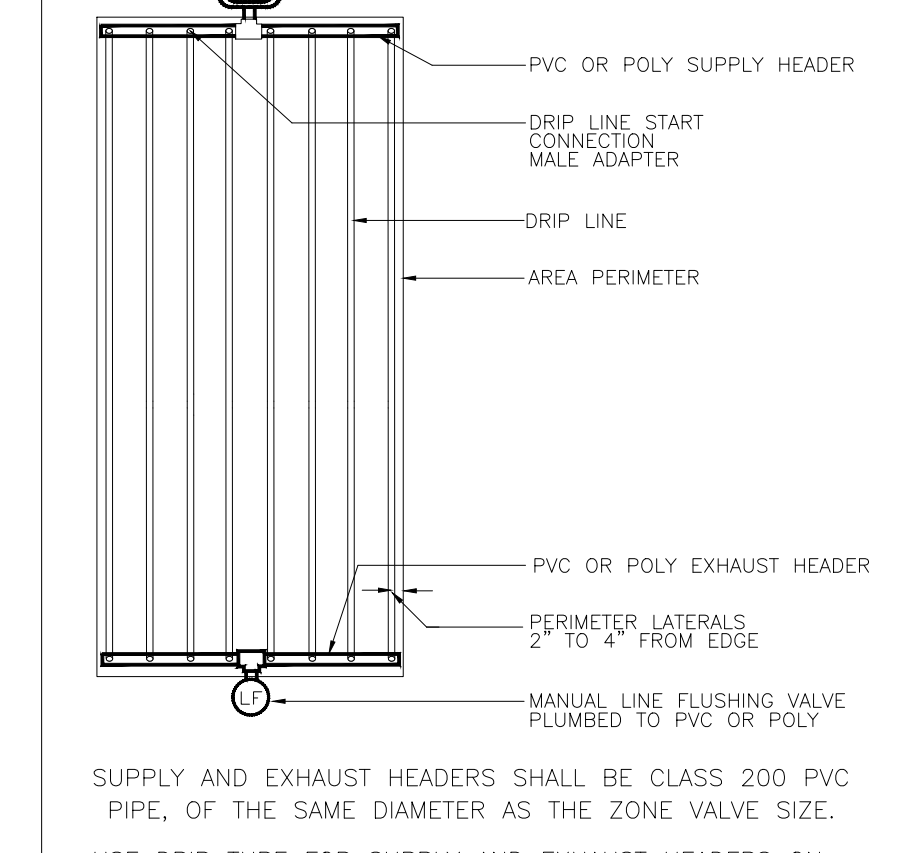
DRIP CENTER FEED LAYOUT N.T.S.

SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE. USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.



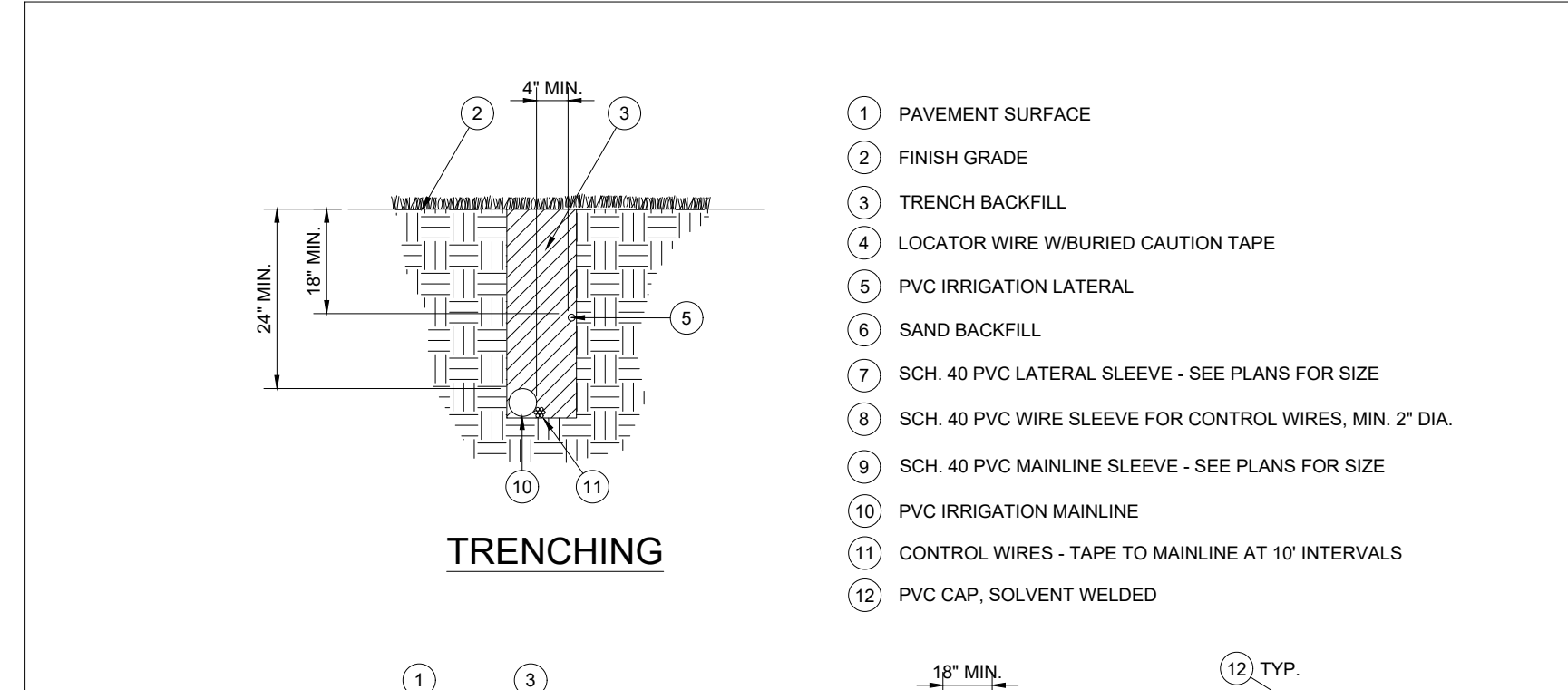
DRIP ISLAND LAYOUT N.T.S.

USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

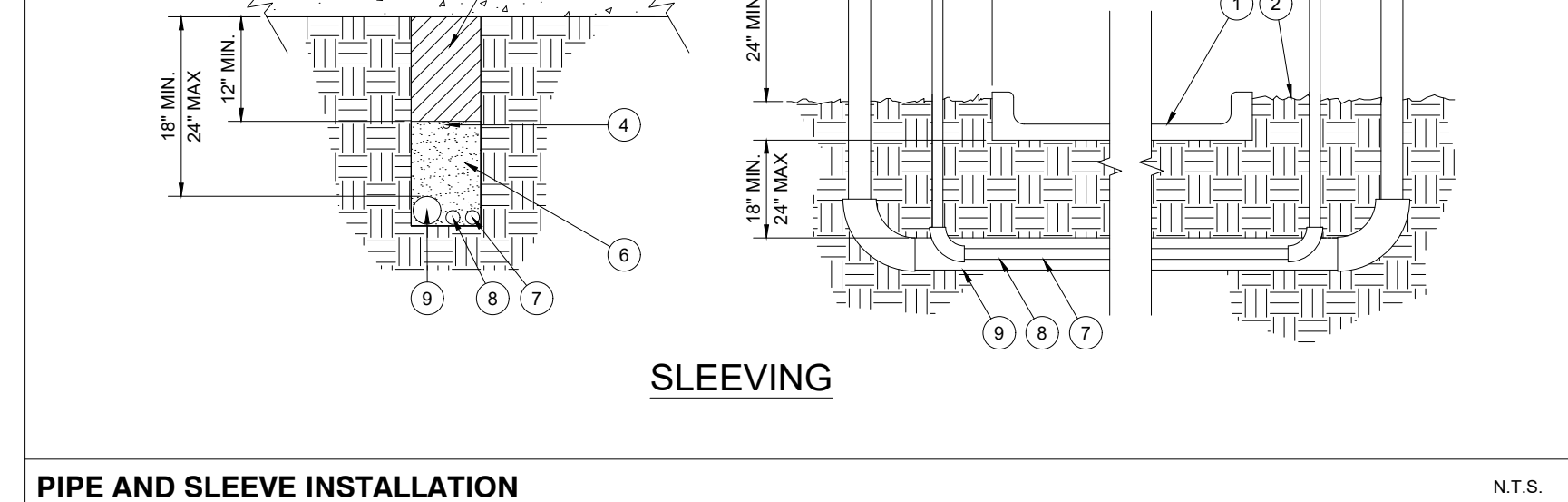


DRIP END FEED LAYOUT N.T.S.

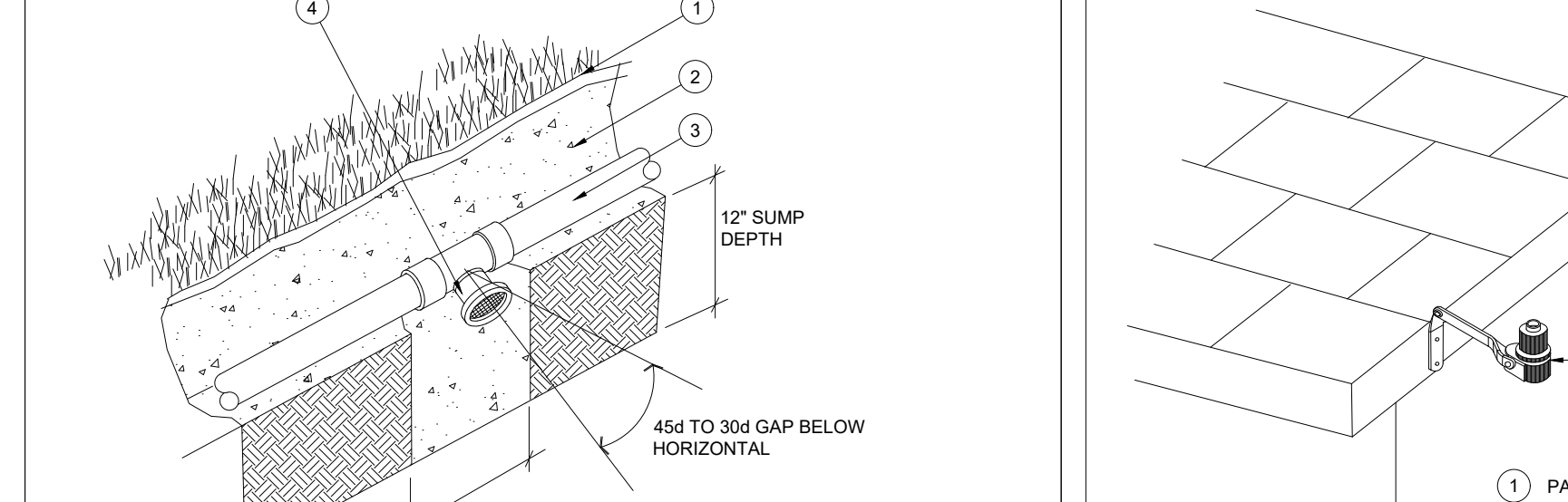
SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE. USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.



TRENCHING

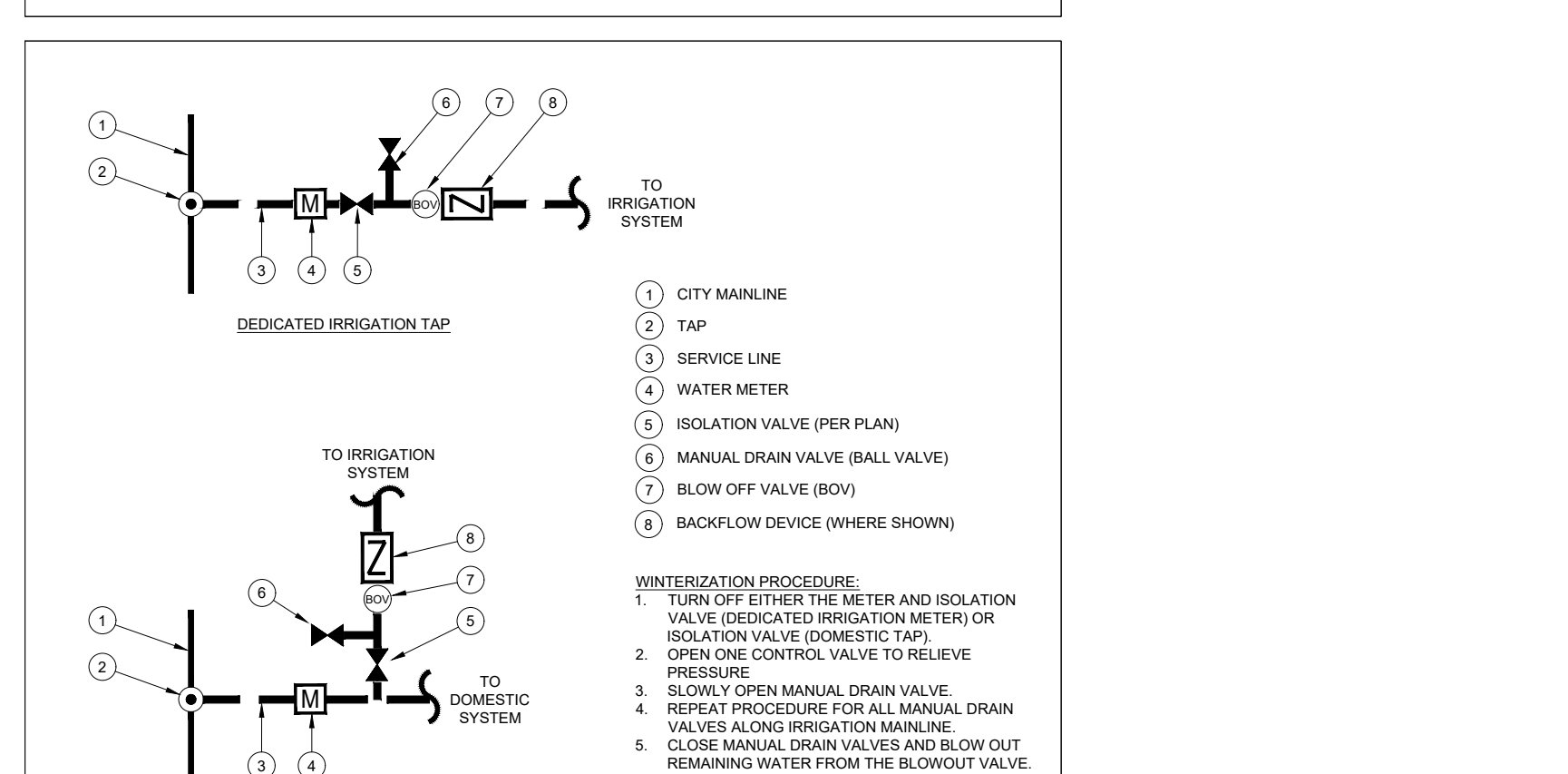


PIPE AND SLEEVE INSTALLATION N.T.S.



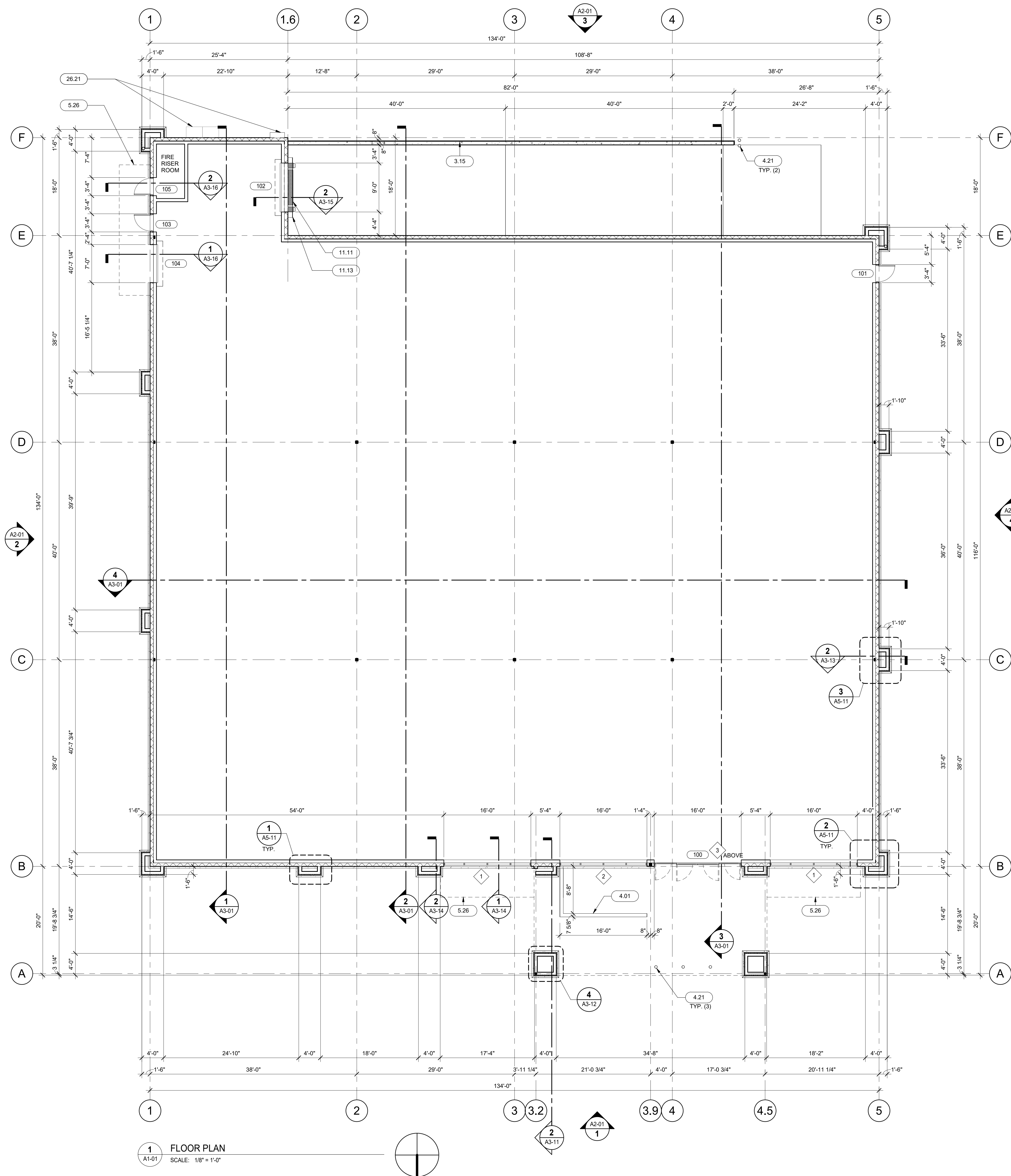
AUTOMATIC DRAIN VALVE N.T.S.

NOTE: AUTOMATIC VALVES ARE TO BE LOCATED AT LOW POINTS OF LATERAL LINES. LOCATE END DRAIN VALVE 12' UPSTREAM FROM LAST HEAD.



WATER TAP DIAGRAM N.T.S.

WINTERIZATION PROCEDURE:
1. TURN OFF EITHER THE METER AND ISOLATION VALVE (DEDICATED IRRIGATION METER) OR ISOLATION VALVE (DOMESTIC TAP).
2. OPEN ONE CONTROL VALVE TO RELIEVE PRESSURE.
3. SLOWLY OPEN MANUAL DRAIN VALVE.
4. REPEAT PROCEDURE FOR ALL MANUAL DRAIN VALVES ALONG IRRIGATION MAINLINE.
5. CLOSE MANUAL DRAIN VALVES AND BLOW OUT REMAINING WATER FROM THE BLOWOFF VALVE. SLOWLY INCREASE AIR PRESSURE. NOT TO EXCEED 90 PSI. DO NOT BLOWOUT SYSTEM FROM BACKFLOW. BLOWOUT SYSTEM TWICE BUT NOT TO EXCEED AT MORE THAN 2 MIN INTERVALS.



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

FLOOR PLAN NOTES	
1.	REFER TO SHEET A6-01 FOR DOOR AND WINDOW SCHEDULES.
2.	PROVIDE INSULATION AT INTERIOR WALLS AS NOTED ON WALL LEGEND/TYPES.
3.	DIMENSIONS FOR EXTERIOR FRAMING ARE TO FACE OF PLYWOOD AND/OR FACE OF MASONRY AS APPLIES (U.N.D)
4.	PROVIDE INTERNATIONAL SYMBOL ACCESSIBILITY (ISA) DECAL AT MAIN ENTRANCE DOORS (UNDER SHELL WORK).
5.	PROVIDE TACTILE EXIT SIGNS AT ALL GRADE LEVEL EXIT DOORS. SIGN TO READ "EXIT" - SEE DETAILS
6.	PROVIDE FIRE DEPARTMENT KEY KNOX BOX. G.G. SHALL COORDINATE EXACT LOCATION AND MOUNTING HEIGHT WITH LOCAL FIRE MARSHAL.
7.	SEAL ALL PENETRATIONS AT EXTERIOR WALLS AS REQUIRED.
8.	HOLD ALL UTILITIES TIGHT TO ROOF FRAMING, PERIMETER WALLS OR CEILING UNLESS NOTED OTHERWISE.
9.	ILLUMINATED BUILDING IDENTIFICATION (ADDRESS) TO BE PROVIDED UNDER SHELL WORK PER LOCATION(S) SHOWN ON EXTERIOR ELEVATIONS. MUST BE SPECIFICALLY REVIEWED AND APPROVED WITH PLANNING / BUILDING / FIRE DEPARTMENT FOR FINAL LOCATION AND/OR TYPE DURING PROJECT SUBMITTALS.

KEYNOTES	
3.15	TRUCK DOCK CONCRETE RETAINING WALL - PAINT PER SCHEDULE
4.01	4'-0" HIGH 8" CMU WALL FOR FUTURE EXTERIOR CART CORRAL - PAINT PER SCHEDULE
4.21	CONCRETE FILLED PIPE BOLLARD - PAINT SAFETY YELLOW
5.26	LINE OF EXISTING CANOPY ABOVE
11.11	TRUCK DOCK BUMPERS AND EDGE OF DOCK LEVELER. REFER TO LOADING DOCK EQUIPMENT SCHEDULE ON SHEET A6-01
11.13	DOCK SEAL. REFER TO LOADING DOCK EQUIPMENT SCHEDULE ON SHEET A6-01
26.21	ELECTRICAL PANELS. REFER TO ELECTRICAL.

DATE	ISSUED FOR	REV
2022.11.29	50% REVIEW	
2022.12.16	90% REVIEW	
2023.01.13	ENTITLEMENT CYCLE 2	
2023.02.10	ENTITLEMENT CYCLE 3	

This drawing has been prepared solely for the use of Peter Bollinger Investment and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer

Project Component
BUILDING SHELL


CLIENT

INTER-CAL REAL ESTATE CORPORATION



Consultants	
Survey:	N/A
Civil:	MORTON & PITALO, INC.
Architecture:	NORR
Structural:	VLMK
Mechanical:	COOLSYS
Electrical:	COOLSYS
Interiors:	N/A
Landscape:	

Seal(s)



150 W. Jefferson Avenue, Suite 1300
 Detroit, MI, US 48226
 norr.com

Project Manager D. GAROFALO	Drawn D. WILSON
Project Leader R. AVILA	Checked M. VON WERDER

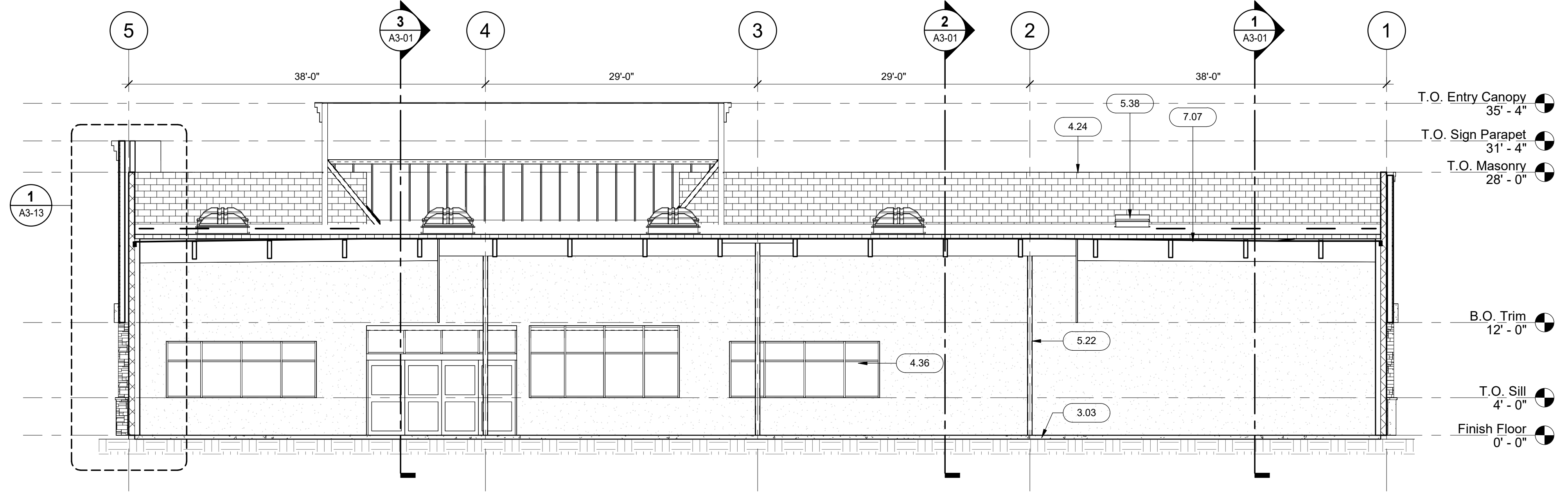
Client
Peter Bollinger Investment

Project
West Roseville Retail Centers

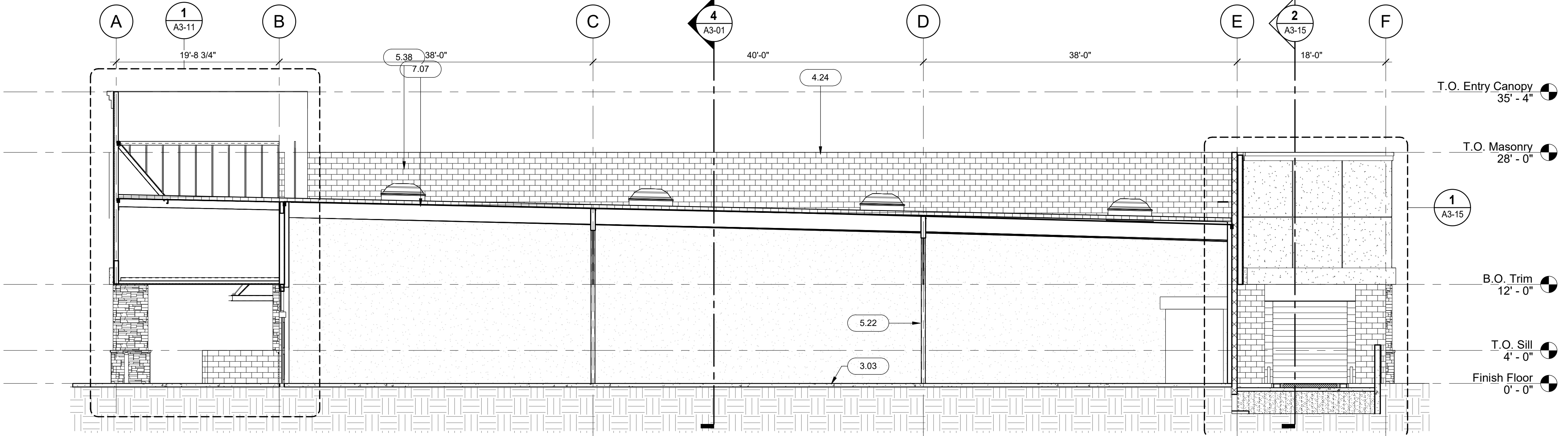
1751 Pleasant Grove Blvd.
 West Roseville CA 95747

Drawing Title
FLOOR PLAN

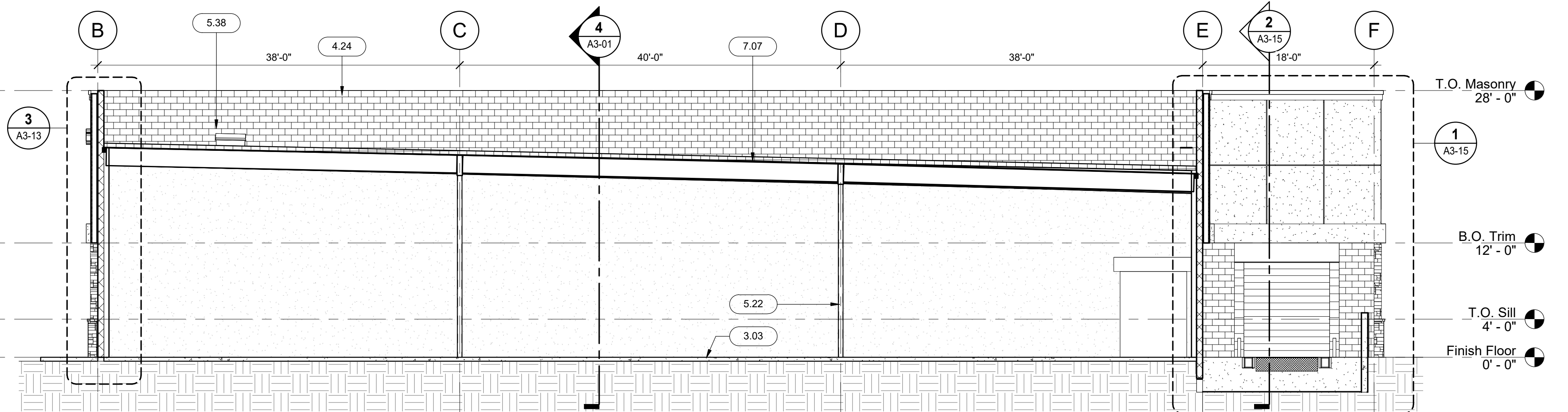
Scale	As indicated
Project No.	JCDT21-0477
Drawing No.	A1-01



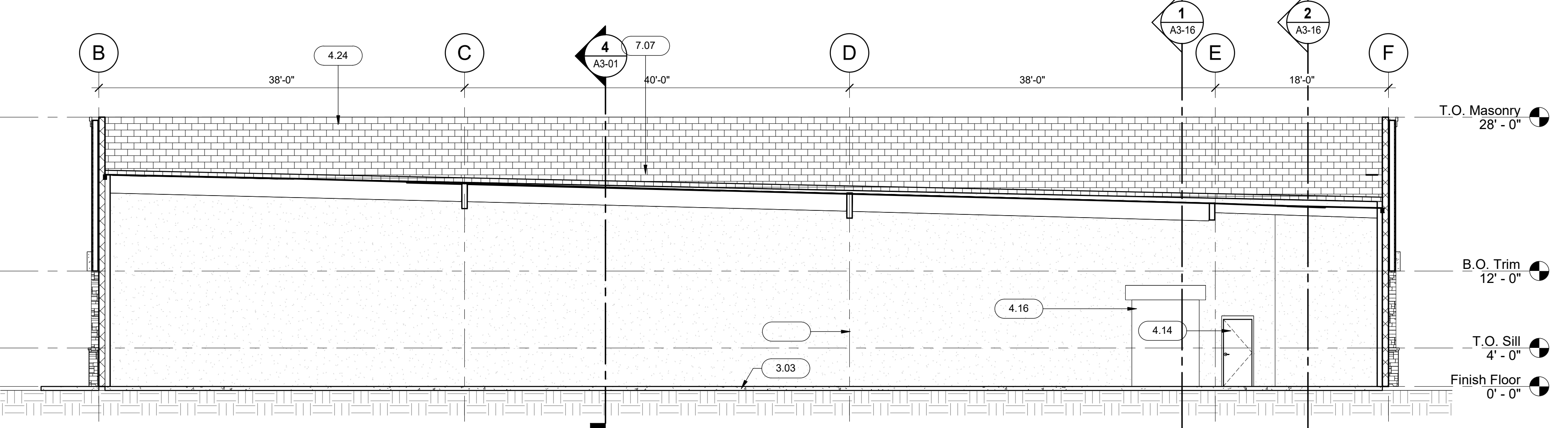
4 BUILDING SECTION
SCALE: 1/8" = 1'-0"



3 BUILDING SECTION
SCALE: 1/8" = 1'-0"



2 BUILDING SECTION
SCALE: 1/8" = 1'-0"



1 BUILDING SECTION
SCALE: 1/8" = 1'-0"

KEYNOTES	
3.03	REINFORCED SLAB ON GRADE WITH 15 MIL. VAPOUR BARRIER OVER GRANULAR FILL. REFER TO STRUCTURAL.
4.14	HOLLOW METAL DOOR AND FRAME - PAINT PER SCHEDULE
4.16	ROLL-UP DELIVERY DOOR - PAINT PER SCHEDULE
4.24	METAL PARAPET CORING FLASHING - PAINT PER SCHEDULE
4.36	STOREFRONT WINDOWS WITH CLEAR ANODIZED ALUMINUM FRAME AND DUAL PANE NON-TINTED GLAZING
5.22	STEEL COLUMN - REFER TO STRUCTURAL
5.38	ROOF HATCH PER SPECIFICATIONS - ACCESS LADDER BY TENANT
7.07	SINGLE-PLY ROOFING MEMBRANE SYSTEM OVER R-30 MIN. RIGID INSULATION OVER PLYWOOD DECKING. REFER TO STRUCTURAL FOR PLYWOOD DECKING. MINIMUM TYPE C ROOF FIRE CLASSIFICATION.

DATE	ISSUED FOR	REV
2022.11.29	50% REVIEW	
2022.12.16	90% REVIEW	
2023.01.13	ENTITLEMENT CYCLE 2	

This drawing has been prepared solely for the use of Peter Bollinger Investment and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

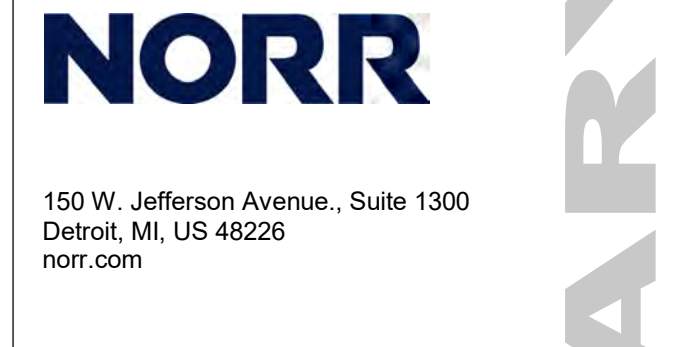
This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component
BUILDING SHELL

Key Plan

Consultants	
Survey:	N/A
Civil:	MORTON & PITALO, INC.
Architecture:	NORR
Structural:	VLMK
Mechanical:	COOLSYS
Electrical:	COOLSYS
Interiors:	N/A
Landscape:	

Seal(s)



Project Manager	Drawn
D. GAROFALO	D. WILSON
Project Leader	Checked
R. AVILA	

Client
Peter Bollinger Investment

Project
West Roseville Retail Centers

1751 Pleasant Grove Blvd.
West Roseville CA

Drawing Title
OVERALL BUILDING SECTIONS

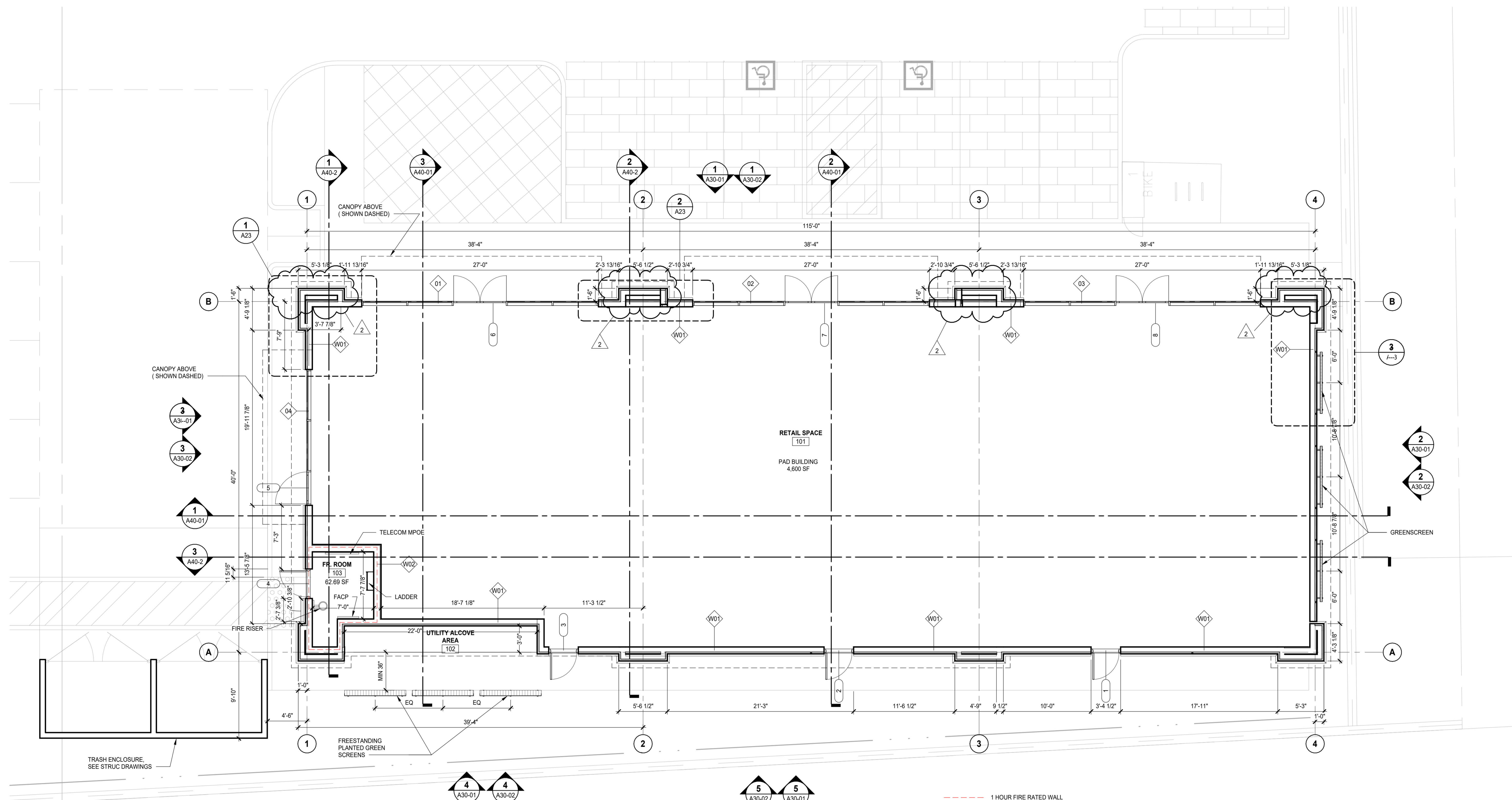
Scale
1/8" = 1'-0"

Project No.
JCDC21-0477

Drawing No.
A3-01

PRELIMINARY - NOT FOR CONSTRUCTION

DATE	ISSUED FOR	REV
2023-01-20	ISSUE FOR PERMIT	1
2023-02-06	PLANNING CYCLE 2 COMMENTS	2



1 FLOOR PLAN
SCALE: 3/16" = 1'-0"

PRELIMINARY NOT FOR CONSTRUCTION

This drawing has been prepared solely for the use of the PETER BOLLINGER INVESTMENT CO and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component
Key Plan

Consultants
Civil:
Landscape:
Architecture:
Structural:
Mechanical:
Electrical:

Seal(s)

NORR

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager	BIM Lead
Design Lead	Drawn
Project Leader	Checked

PETER BOLLINGER INVESTMENT CO

Project
WEST ROSEVILLE_SHELL

1751 PLEASANT GROVE BLVD.
ROSEVILLE, CA 95747

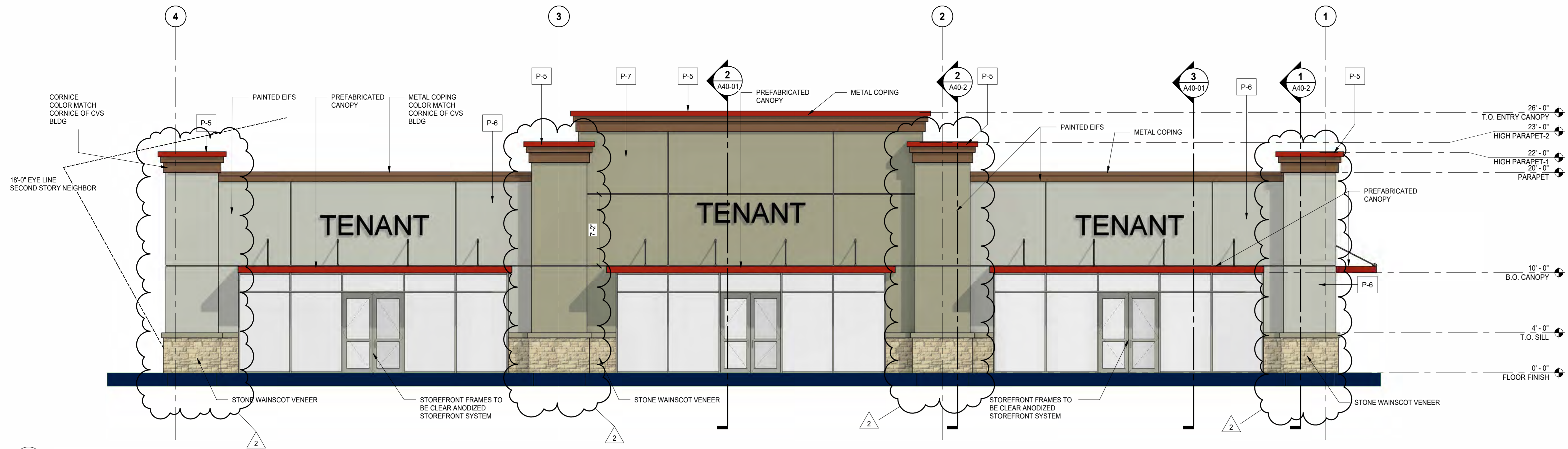
Drawing Title
FLOOR PLAN

Scale	3/16" = 1'-0"
Project No.	JCSR22-0035
Drawing No.	A20-01

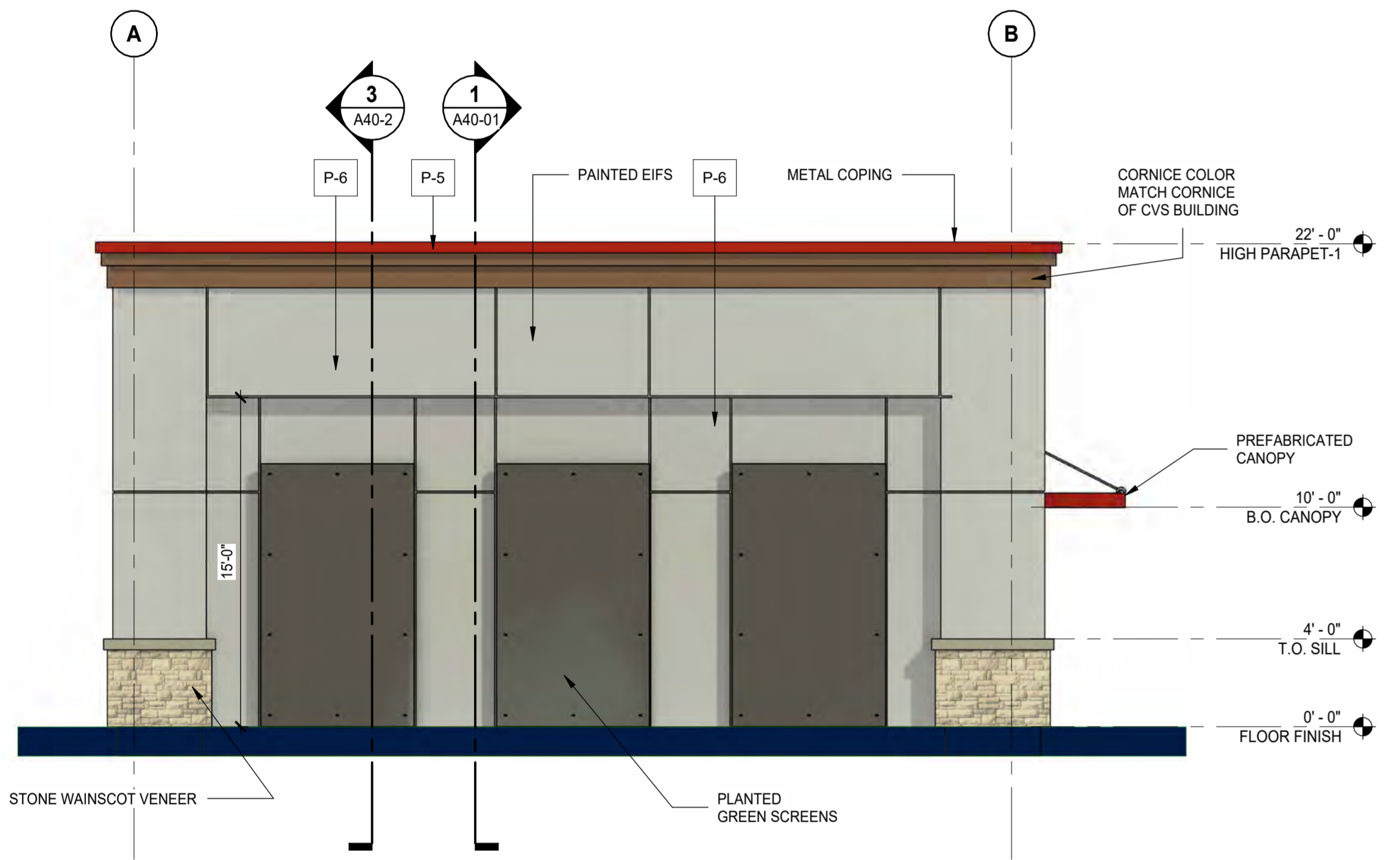


DATE	ISSUED FOR	REV
2023-01-20	ISSUE FOR PERMIT	1
2023-02-06	PLANNING CYCLE 2 COMMENTS	2

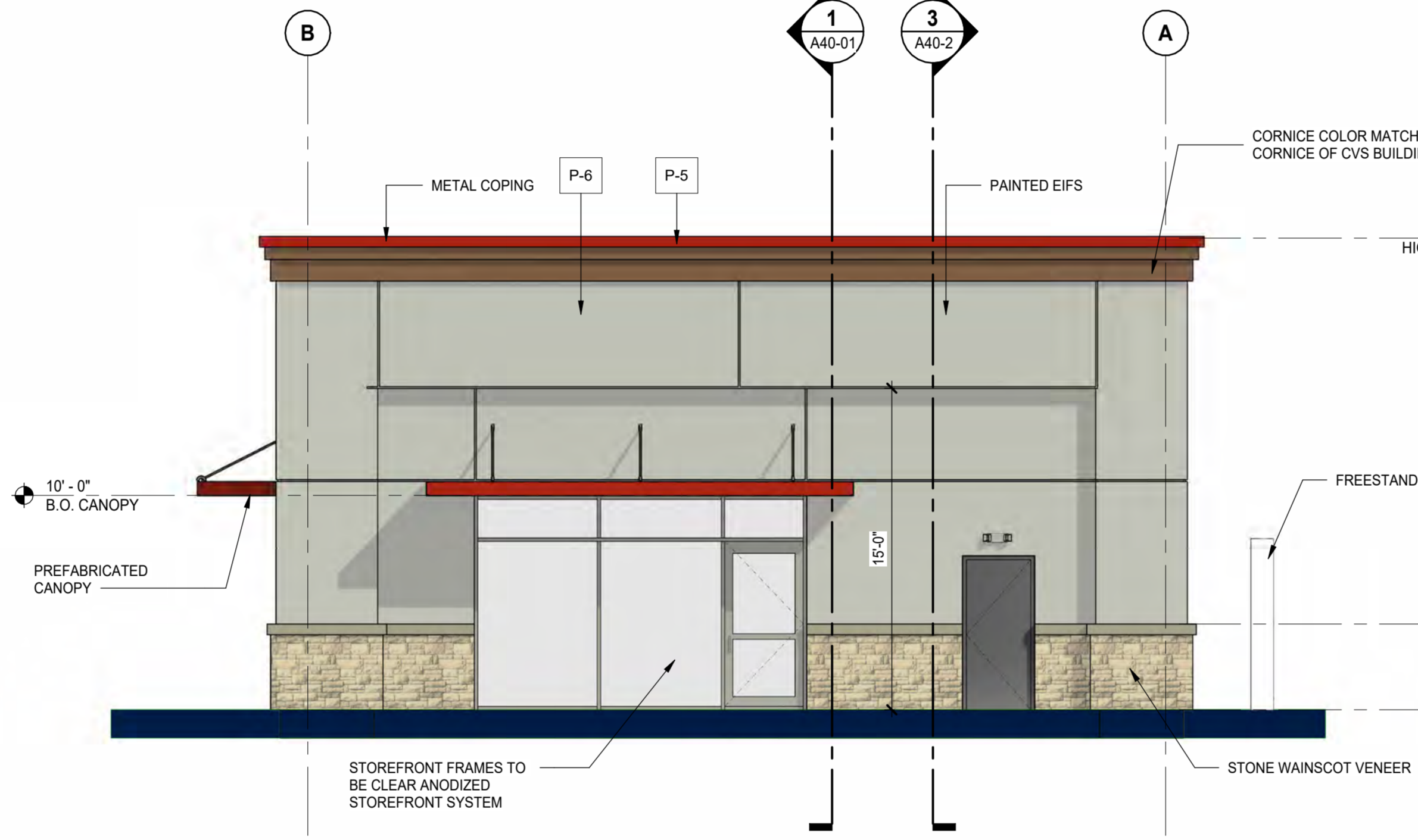
PRELIMINARY NOT FOR CONSTRUCTION



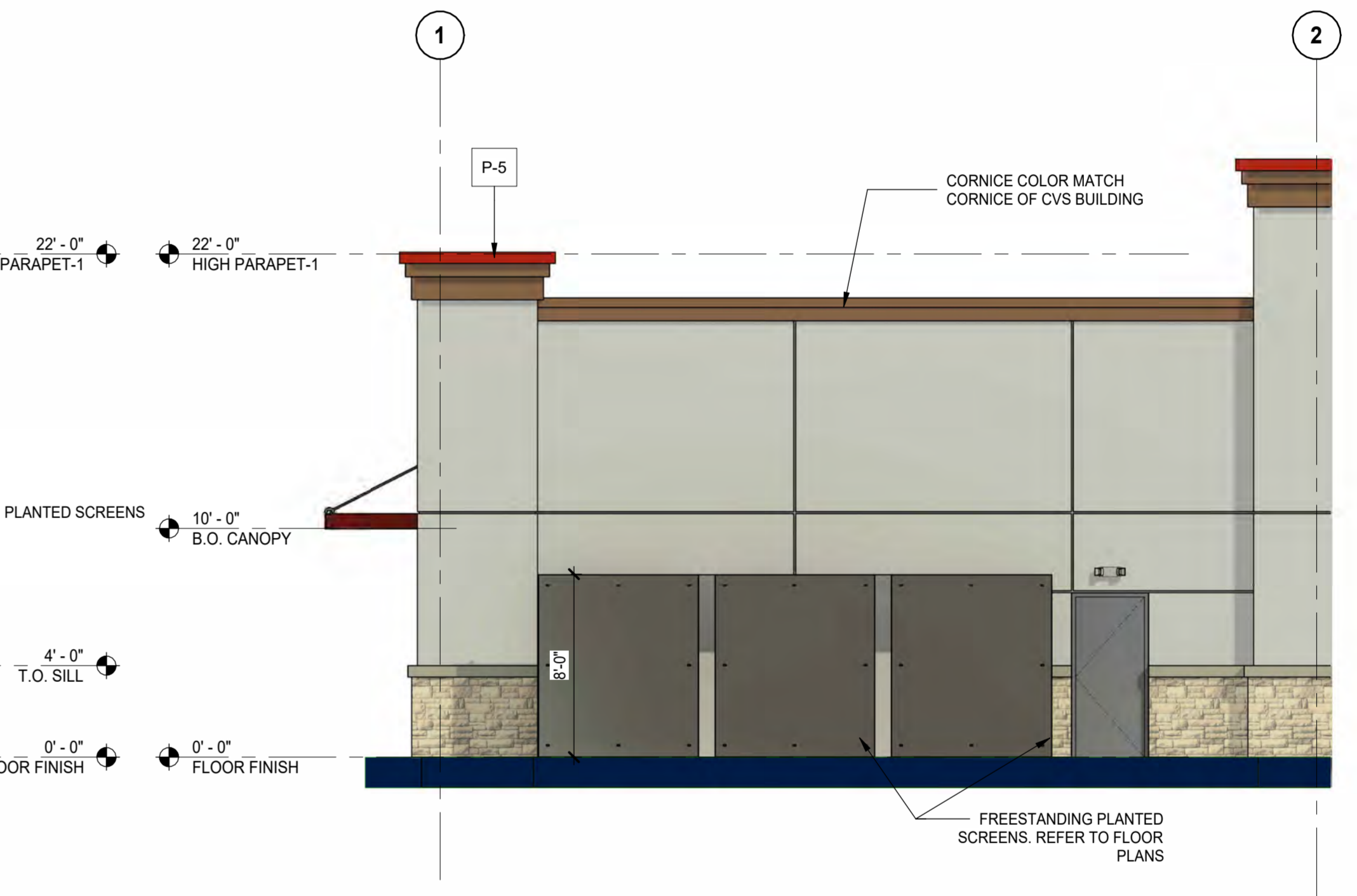
1 NORTH ELEVATION - FRONT
SCALE: 3/16" = 1'-0"



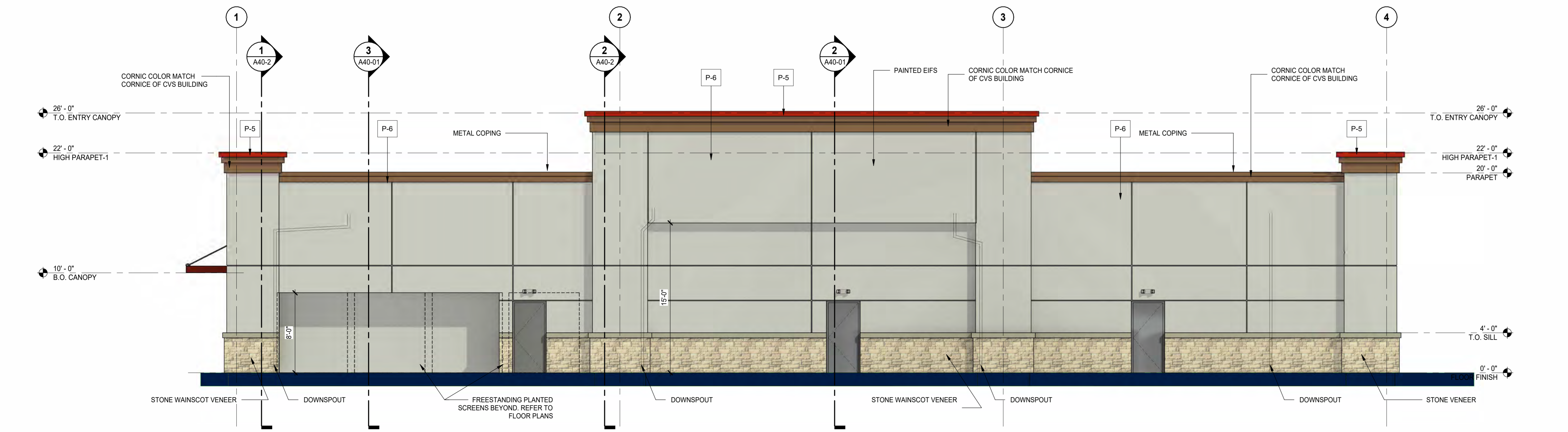
2 EAST ELEVATION
SCALE: 3/16" = 1'-0"



3 WEST ELEVATION
SCALE: 3/16" = 1'-0"



4 PARTIAL SOUTH ELEVATION - REAR -
SCALE: 3/16" = 1'-0"



5 SOUTH ELEVATION - REAR
SCALE: 3/16" = 1'-0"

EXTERIOR PAINT SCHEDULE	
MARK	PAINT NAME
P-5	HERITAGE RED, BENJAMIN MOORE #PM-18
P-6	SHORELINE, BENJAMIN MOORE #1471
P-7	GRAYSTONE, BENJAMIN MOORE #1475

This drawing has been prepared solely for the use of the PETER BOLLINGER INVESTMENT CO and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component

Key Plan

Consultants
Civil:
Landscape:
Architecture:
Structural:
Mechanical:
Electrical:

Seal(s)

NORR

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager	BIM Lead
Design Lead	Drawn
Project Leader	Checked

PETER BOLLINGER INVESTMENT CO

Project
WEST ROSEVILLE_SHELL

1751 PLEASANT GROVE BLVD.
ROSEVILLE, CA 95747

Drawing Title
COLORED EXTERIOR ELEVATIONS

Scale: 3/16" = 1'-0"
Project No.: JCSR22-0035
Drawing No.: A30-01

2/6/2023 5:03:47 PM Autodesk Docs/Peter Bollinger Investment - West Roseville Retail/JCSR22-0035_WestRoseville_CO_Shell_R22.rvt

2/6/2023 5:03:27 PM

DATE	ISSUED FOR	REV
2023-01-20	ISSUE FOR PERMIT	1
2023-02-06	PLANNING CYCLE 2 COMMENTS	2

PRELIMINARY NOT FOR CONSTRUCTION

This drawing has been prepared solely for the use of the PETER BOLLINGER INVESTMENT CO and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component

Key Plan

Consultants

- Civil:
- Landscape:
- Architecture:
- Structural:
- Mechanical:
- Electrical:

Seal(s)

NORR

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager	BIM Lead
Design Lead	Drawn
	Author
Project Leader	Checked
	Checker

PETER BOLLINGER INVESTMENT CO

Project
WEST ROSEVILLE_SHELL

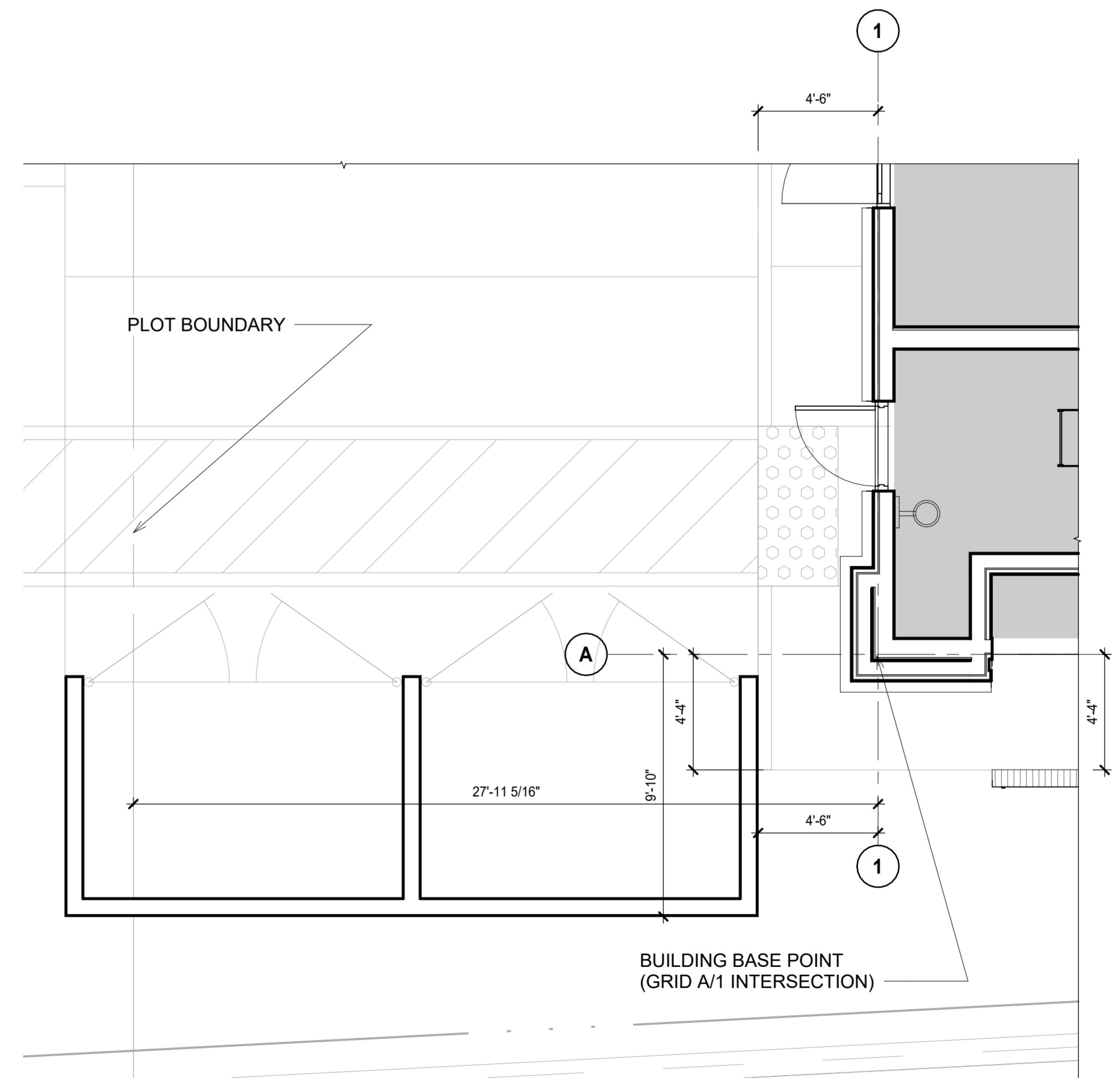
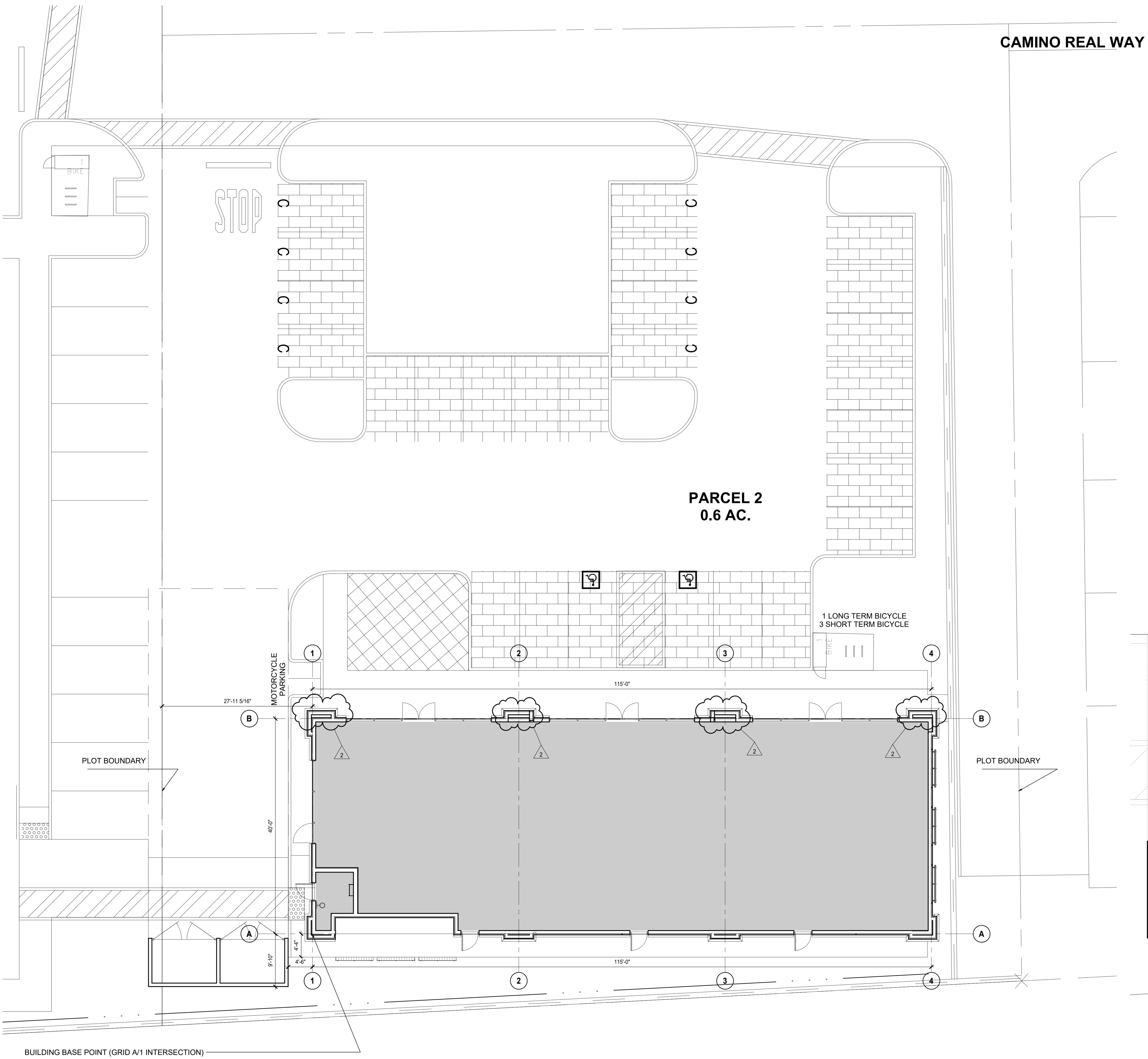
1751 PLEASANT GROVE BLVD.
ROSEVILLE, CA 95747

Drawing Title
SITE PLAN

Scale As Indicated
Project No. JCSR22-0035

Drawing No.
A10-01

ARCH E1 US Title Block - R18.3 (Sept 12/19) Copyright © 2019



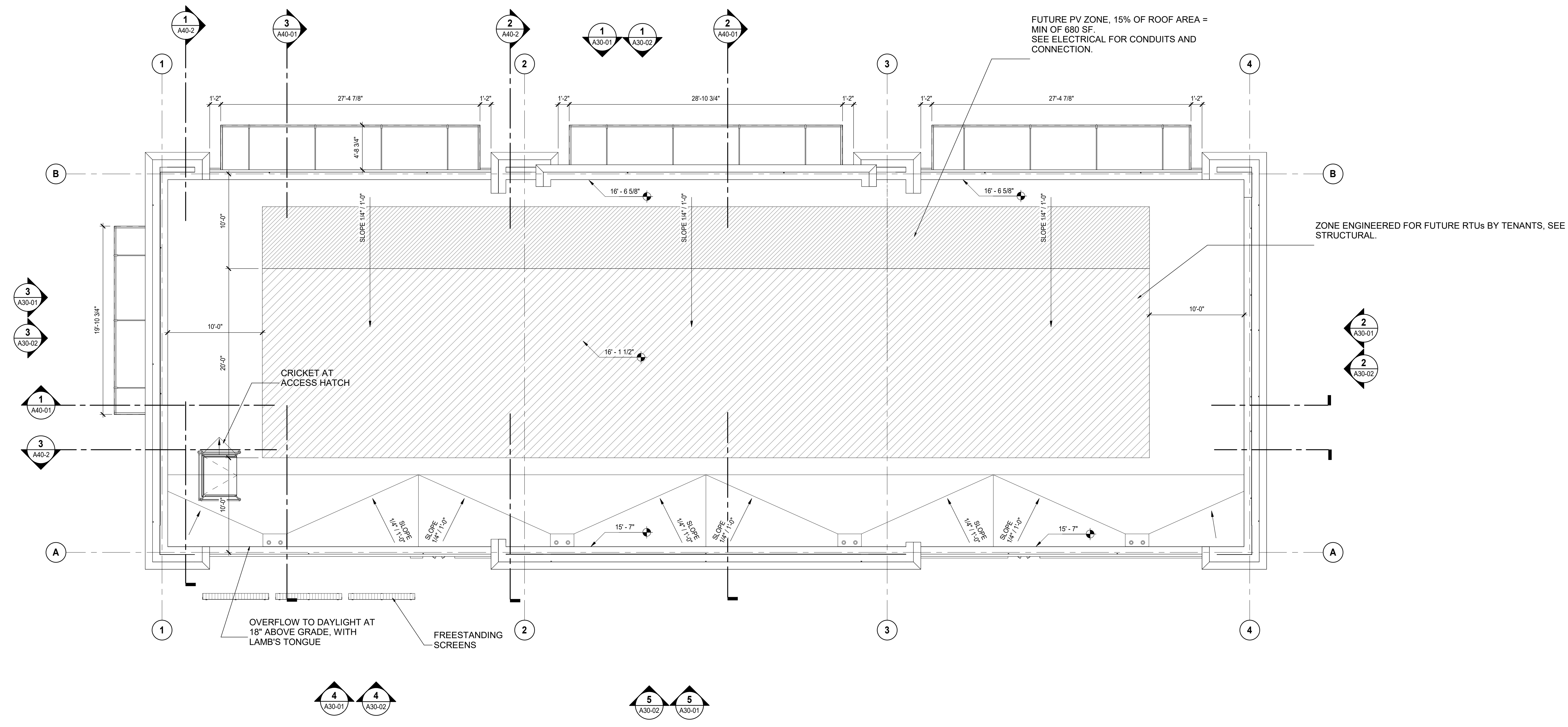
1 SITE PLAN
A10-01 SCALE: 1/8" = 1'-0"

2 BUILDING BASE POINT
A10-01 SCALE: 1/4" = 1'-0"



Autodesk Docs | Peter Bollinger Investment - West Roseville Retail | JCSR22-0035 - WestRoseville_CO_Shell_R22.rvt

PRELIMINARY NOT FOR CONSTRUCTION



1
A20-05
ROOF PLAN
SCALE: 3/16" = 1'-0"

FUTURE PV ZONE, 15% OF ROOF AREA =
MIN OF 680 SF.
SEE ELECTRICAL FOR CONDUITS AND
CONNECTION.

ZONE ENGINEERED FOR FUTURE RTUs BY TENANTS, SEE
STRUCTURAL.

This drawing has been prepared solely for the use of the
PETER BOLLINGER INVESTMENT CO and there are no
representations of any kind made by NORR to any party
with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes
until the seal appearing hereon is signed and dated by
the Architect or Engineer.

Project Component
Key Plan

Consultants
Civil:
Landscape:
Architecture:
Structural:
Mechanical:
Electrical:

Seal(s)

NORR

The Cannery
1631 Alhambra Blvd., Suite 100
Sacramento, CA, US 95816
norr.com

Project Manager	BIM Lead
Design Lead	Drawn Author
Project Leader	Checked Checker

**PETER BOLLINGER
INVESTMENT CO**

Project
WEST ROSEVILLE_SHELL

Drawing Title
ROOF PLAN

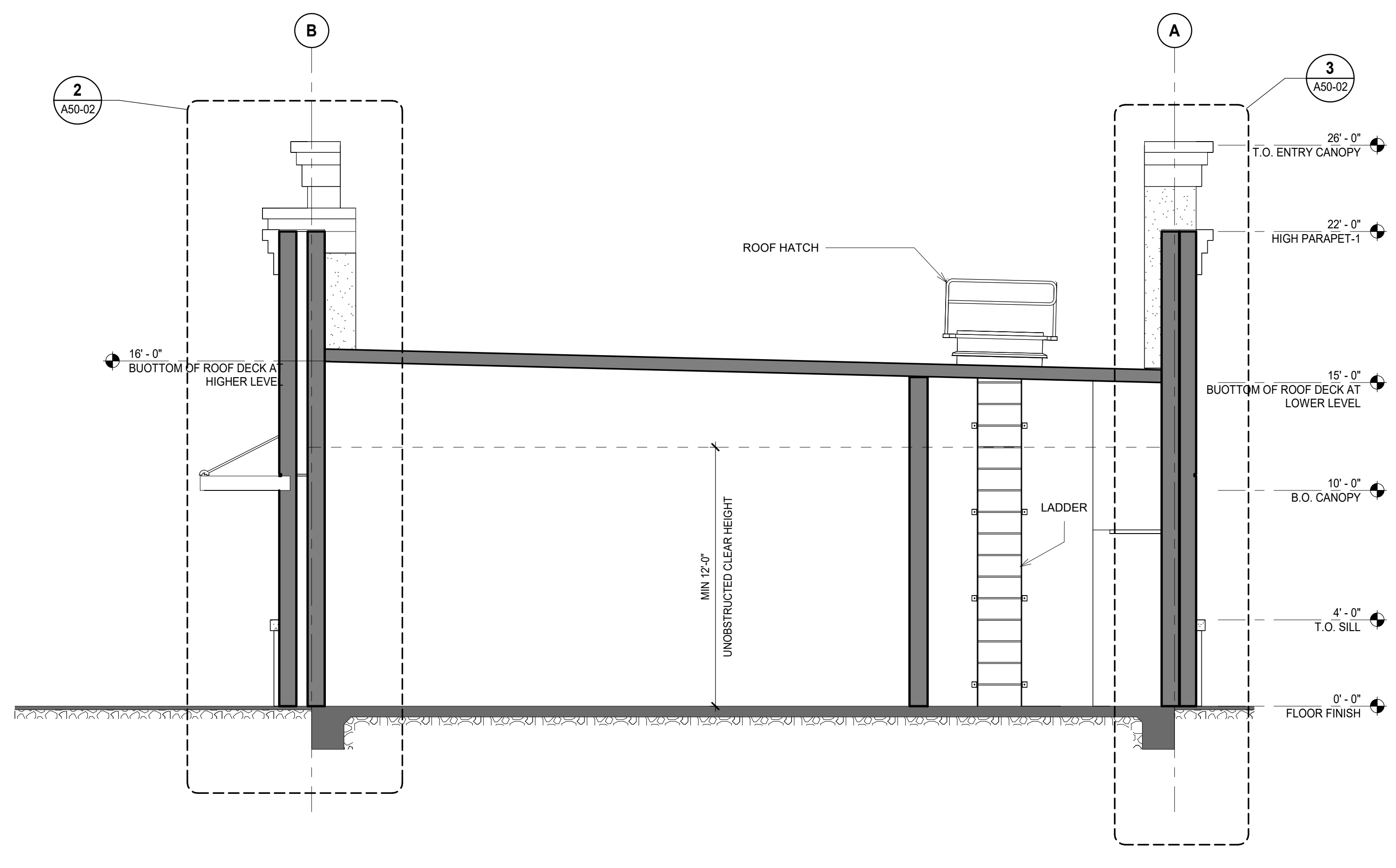
Scale	3/16" = 1'-0"
Project No.	JCSR22-0035
Drawing No.	A20-05



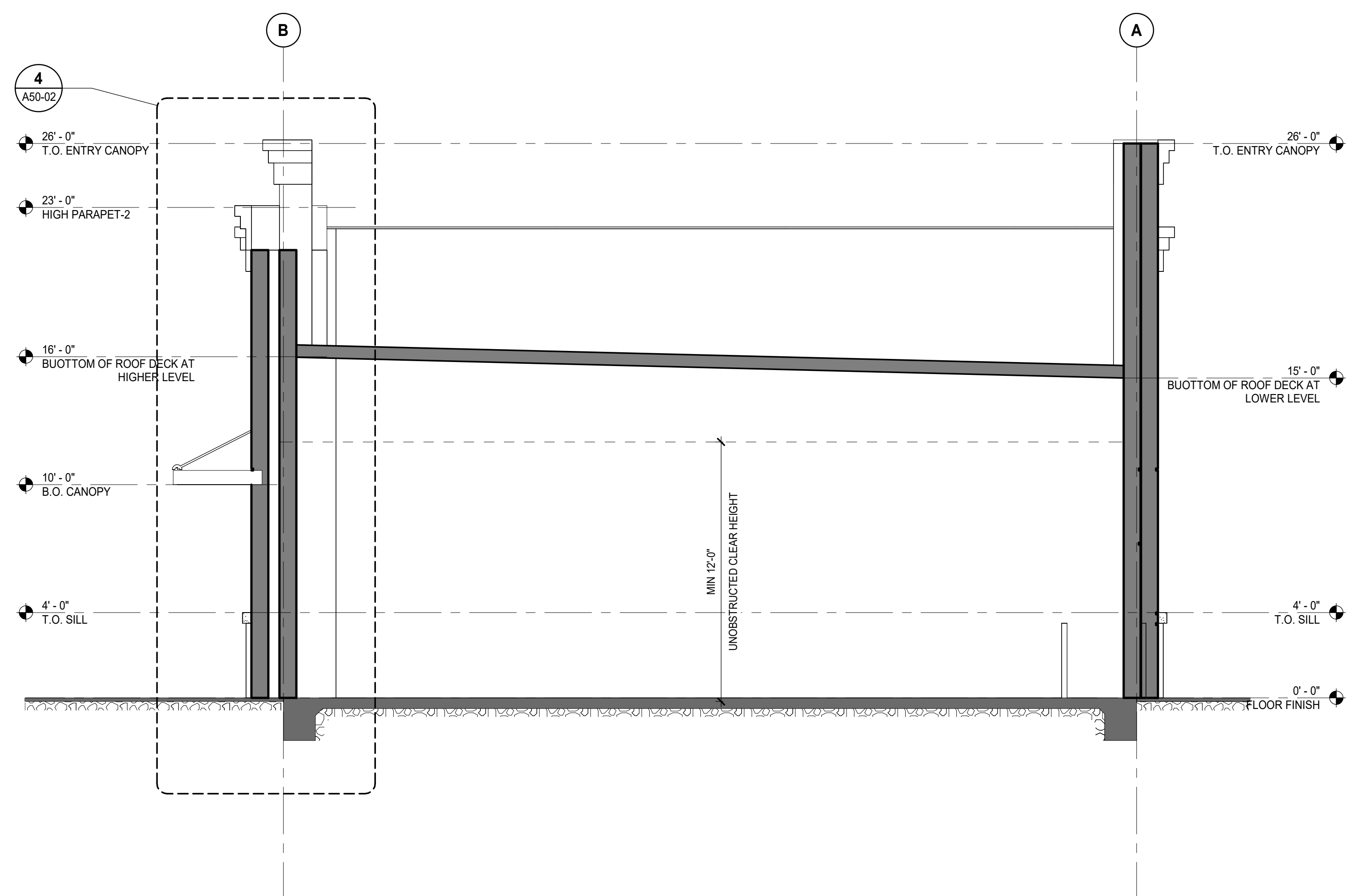
3/13/2023 9:35:29 AM

DATE	ISSUED FOR	REV
2023-01-20	ISSUE FOR PERMIT	

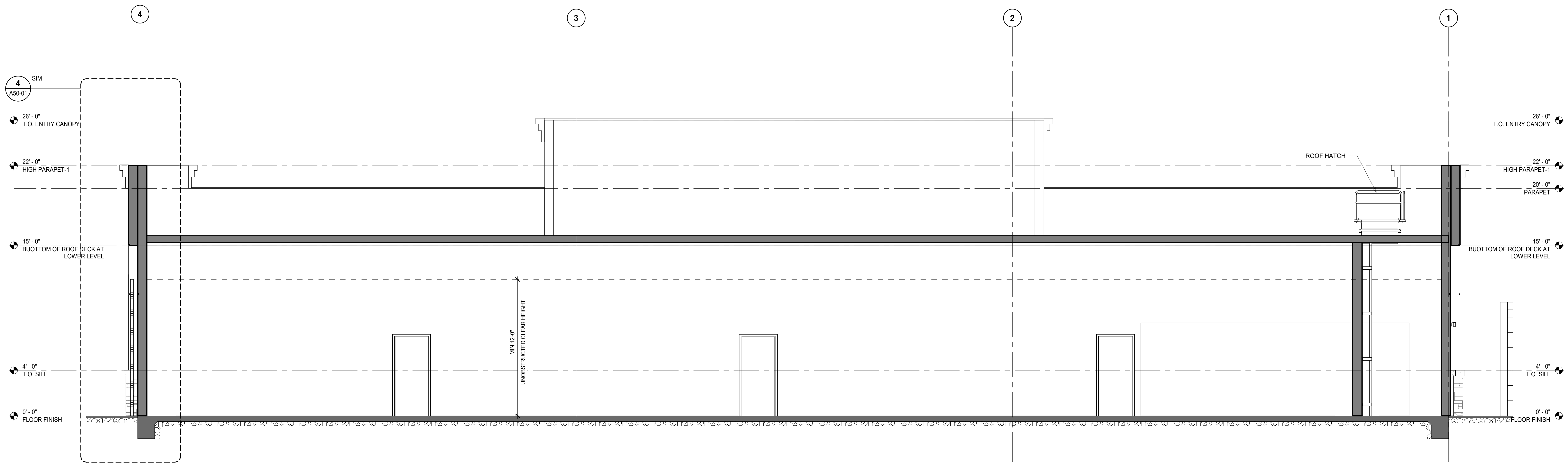
PRELIMINARY NOT FOR CONSTRUCTION



1 BUILDING SECTION 4
A40-2 SCALE: 1/4" = 1'-0"



2 BUILDING SECTION 5
A40-2 SCALE: 1/4" = 1'-0"



3 BUILDING SECTION 6
A40-2 SCALE: 1/4" = 1'-0"

This drawing has been prepared solely for the use of the PETER BOLLINGER INVESTMENT CO and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component
Key Plan

Consultants
 Civil:
 Landscape:
 Architecture:
 Structural:
 Mechanical:
 Electrical:

Seal(s)

NORR

The Cannery
 1631 Alhambra Blvd., Suite 100
 Sacramento, CA, US 95816
 norr.com

Project Manager	BIM Lead
Design Lead	Drawn
Project Leader	Author
	Checked
	Checker

PETER BOLLINGER INVESTMENT CO

Project
WEST ROSEVILLE_SHELL

1751 PLEASANT GROVE BLVD.
 ROSEVILLE, CA 95747

Drawing Title
BUILDING SECTIONS

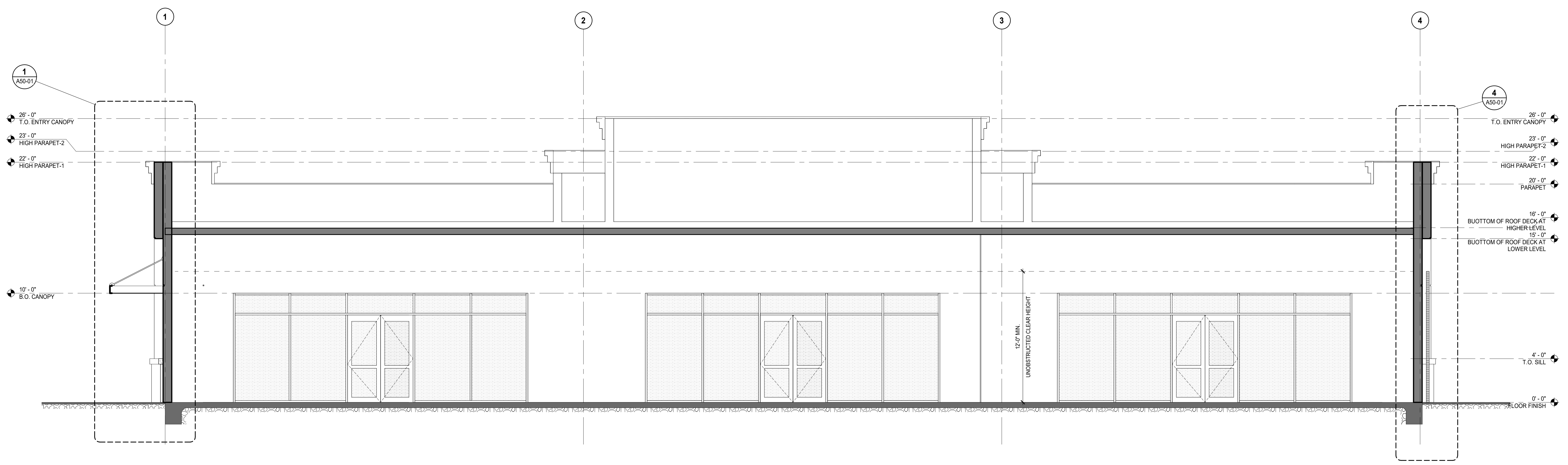
Scale	1/4" = 1'-0"
Project No.	JCSR22-0035
Drawing No.	A40-2

Autodesk Docs: Peter Bollinger Investment - West Roseville Retail/JCS22-0035 - WestRoseville_CO_Shell_R22.rvt

3/13/2023 9:35:28 AM

DATE	ISSUED FOR	REV
2023-01-20	ISSUE FOR PERMIT	

PRELIMINARY NOT FOR CONSTRUCTION



1 BUILDING SECTION 1
A40-01 SCALE: 1/4" = 1'-0"

This drawing has been prepared solely for the use of the PETER BOLLINGER INVESTMENT CO and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component

Key Plan

Consultants
 Civil:
 Landscape:
 Architecture:
 Structural:
 Mechanical:
 Electrical:

Seal(s)

NORR

The Cannery
 1631 Alhambra Blvd., Suite 100
 Sacramento, CA, US 95816
 norr.com

Project Manager	BIM Lead
Design Lead	Drawn Author
Project Leader	Checked Checker

PETER BOLLINGER INVESTMENT CO

Project
 WEST ROSEVILLE_SHELL

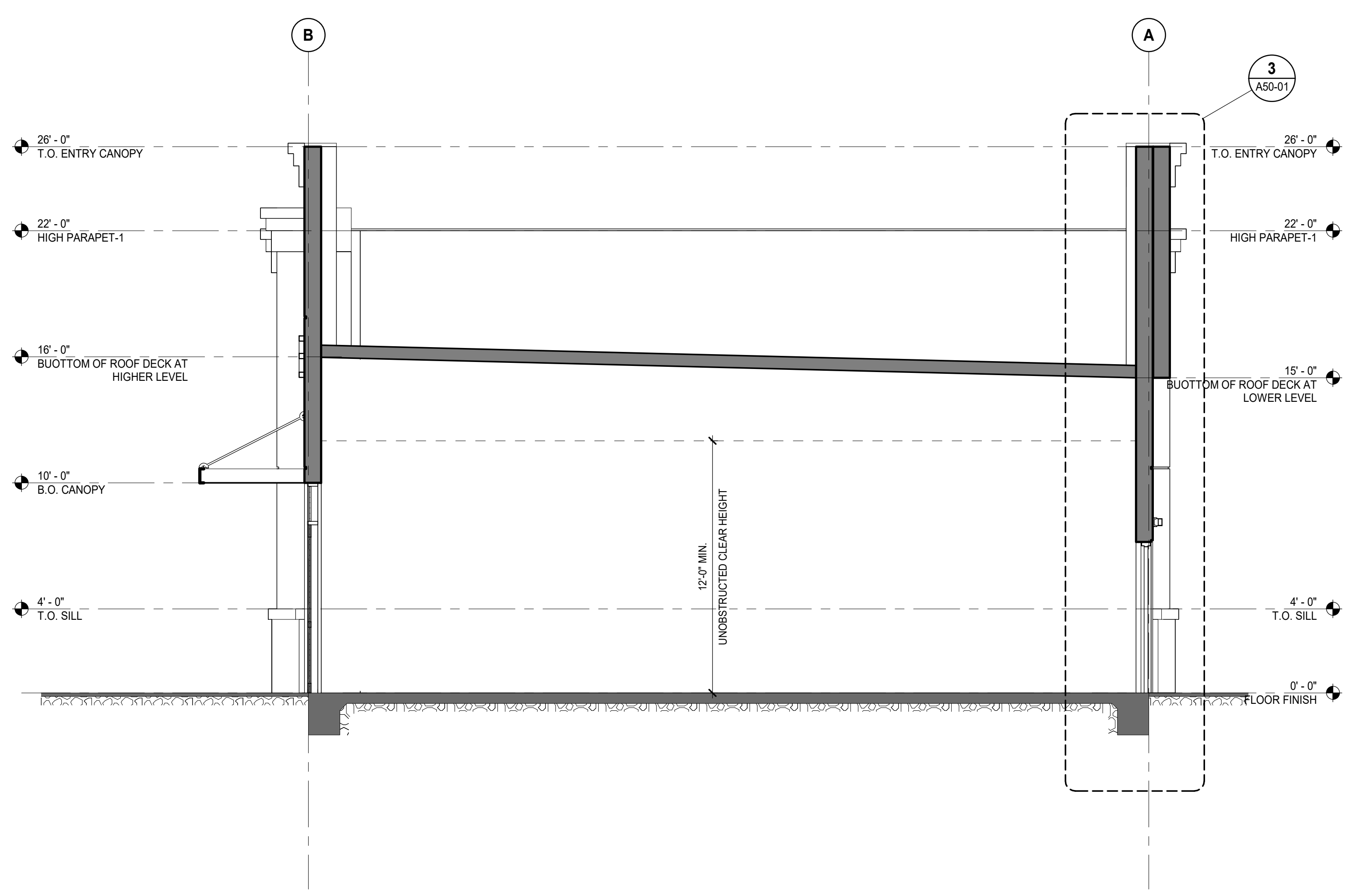
1751 PLEASANT GROVE BLVD.
 ROSEVILLE, CA 95747

Drawing Title
 BUILDING SECTIONS

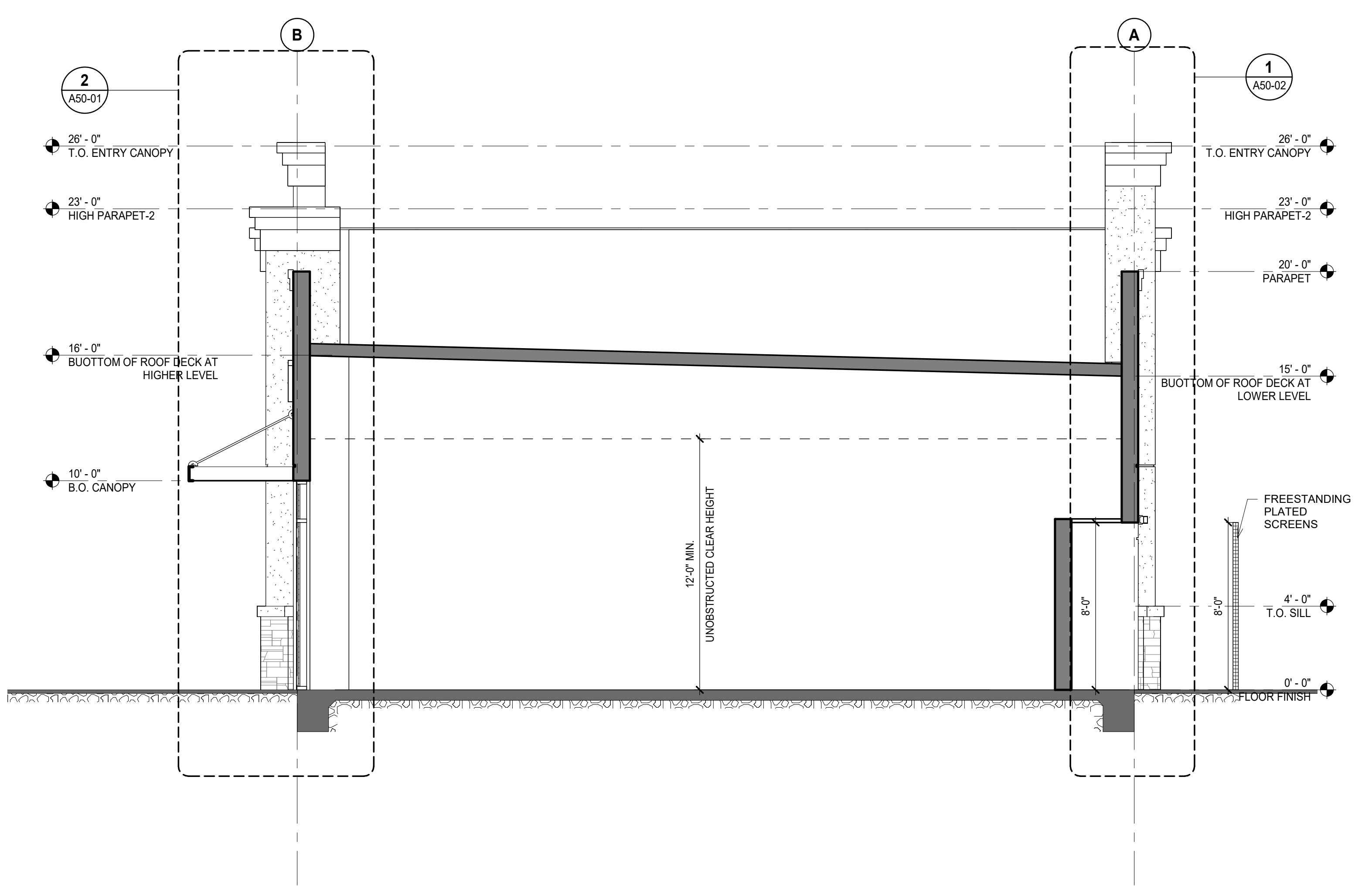
Scale 1/4" = 1'-0"

Project No. JCSR22-0035

Drawing No. A40-01



2 BUILDING SECTION 2
A40-01 SCALE: 1/4" = 1'-0"



3 BUILDING SECTION 3
A40-01 SCALE: 1/4" = 1'-0"

Autodesk Docs (Peter Bollinger Investment - West Roseville Retail) JCSR22-0035 - WestRoseville_CO_Shell_R02.rvt



Head Office
400 S. Record St.
Dallas, TX 75202

Exterior Layout

CLIENT
GROCERY OUTLET
ADDRESS
West Roseville, CA

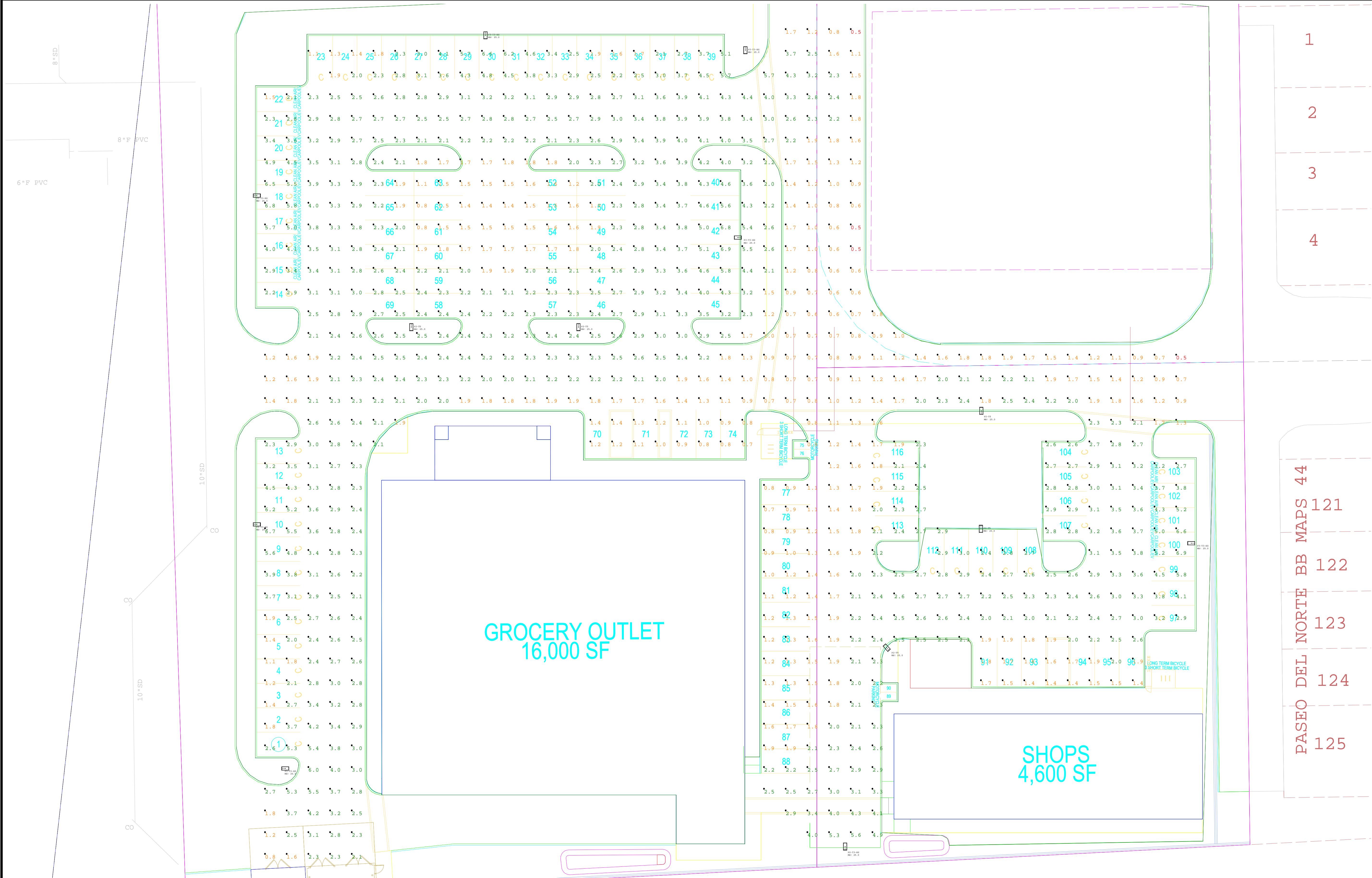
1

2

3

4

PASEO DEL NORTE BB MAPS 44
121
122
123
124
125

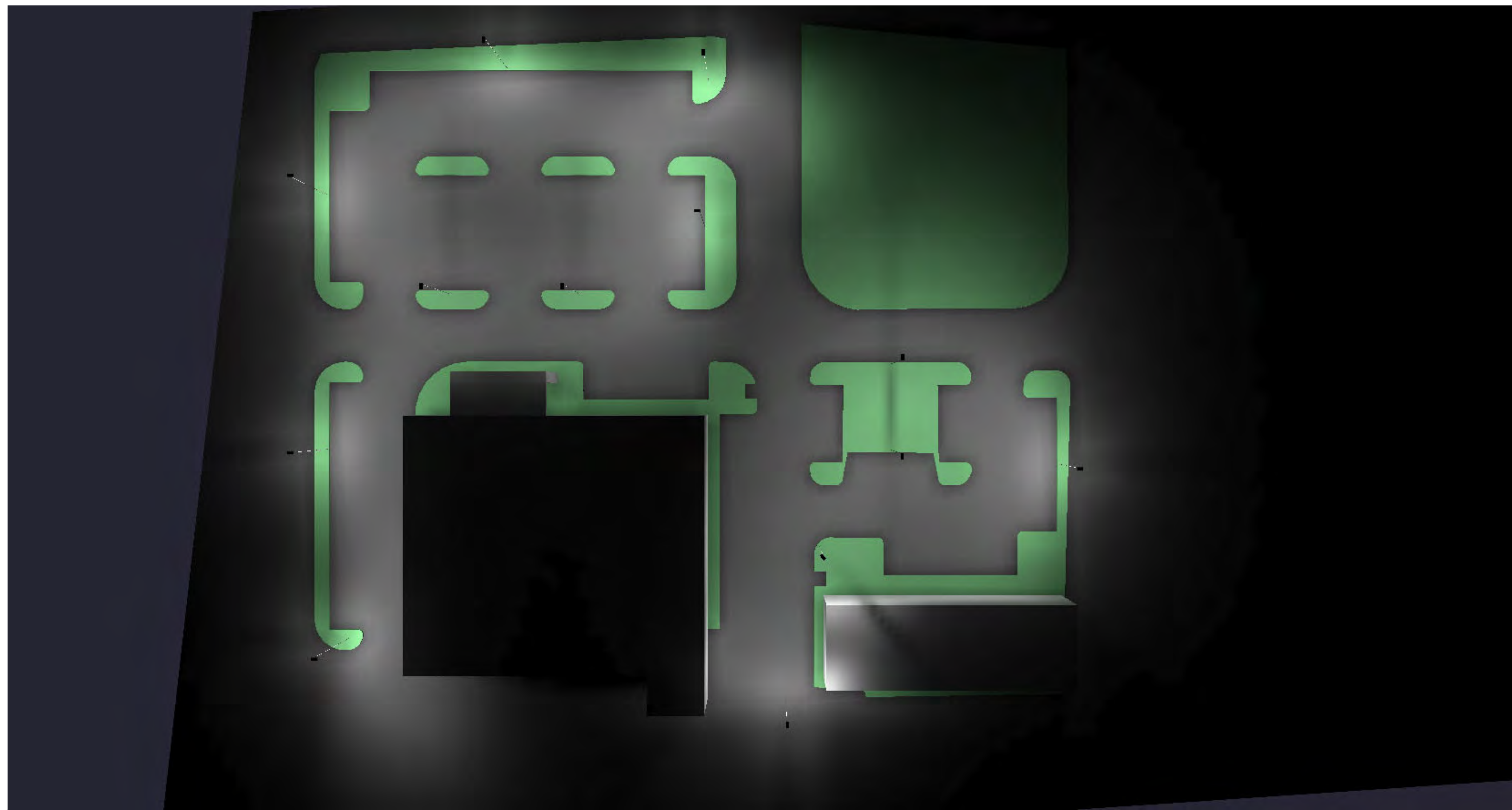


FIXTURE SCHEDULE

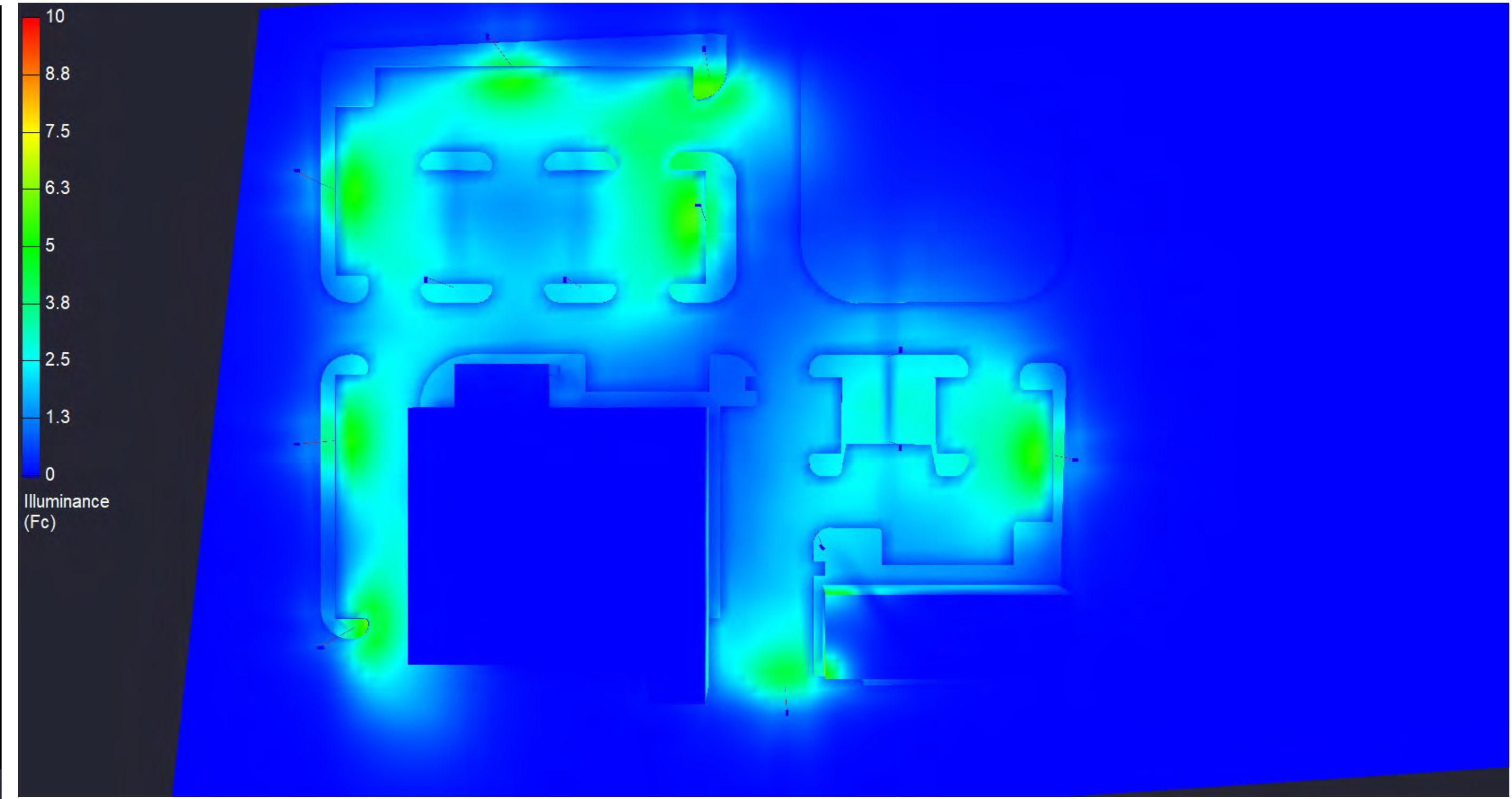
Qty	Symbol	Label	Arrangement	Description	Lum. Watts	Total Watts	Lum. Lumens	LLF
1		P2-T3-HS	SINGLE	Area Lighter / Acuity / RSX2 LED P2 40K R3 EGS	114.071	114.071	14792	0.850
5		P2-T5	SINGLE	Area Lighter / Acuity / RSX2 LED P2 40K R5	114.07	570.35	17657	0.850
7		P3-T3-HS	SINGLE	Area Lighter / Acuity / RSX2 LED P3 40K R3 EGS	149.9762	1049.833	18691	0.850

DESIGNER: DW
DATE: 01.06.23
REV: 8
SCALE: 1" = 19'

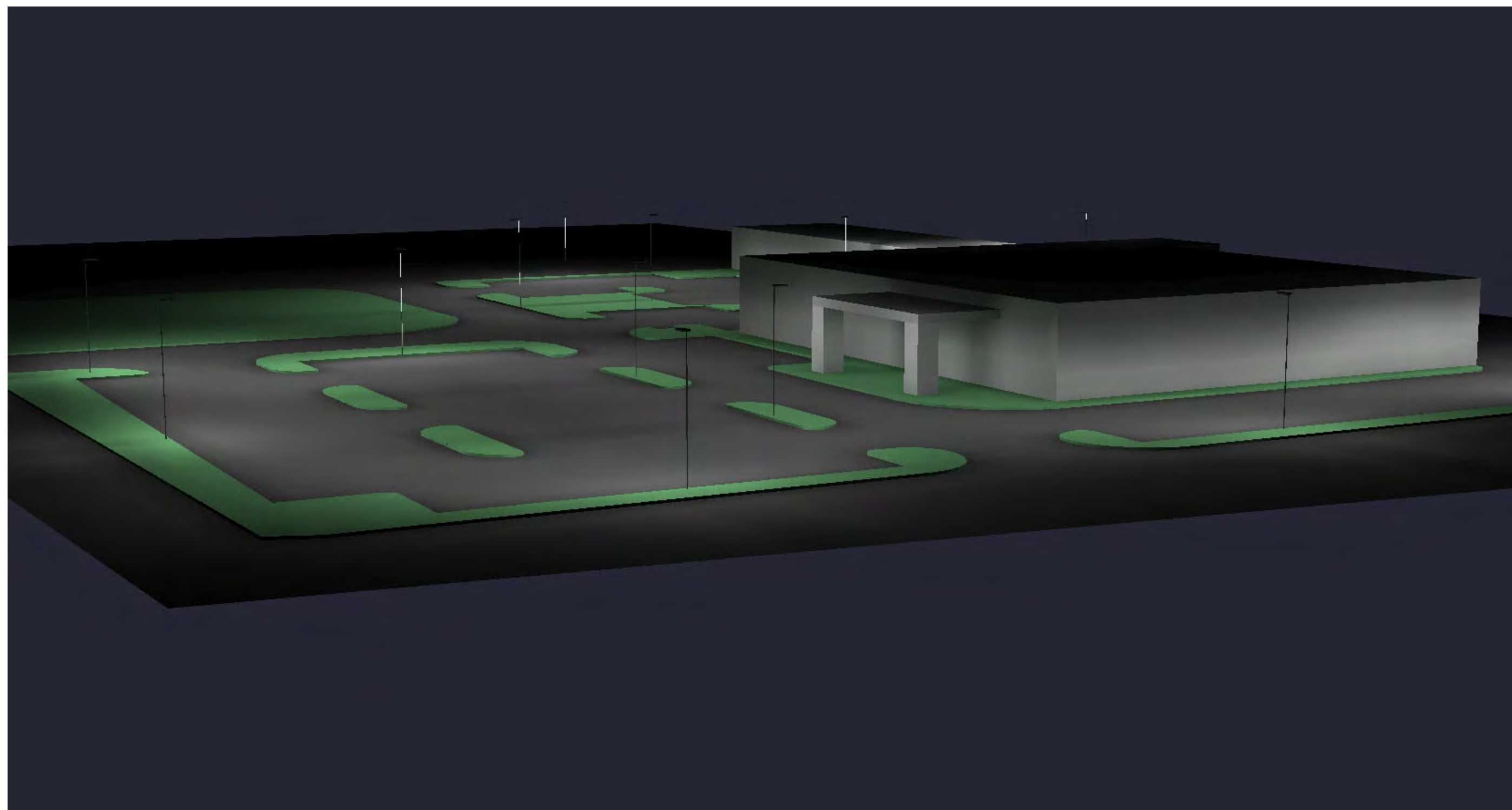
L01



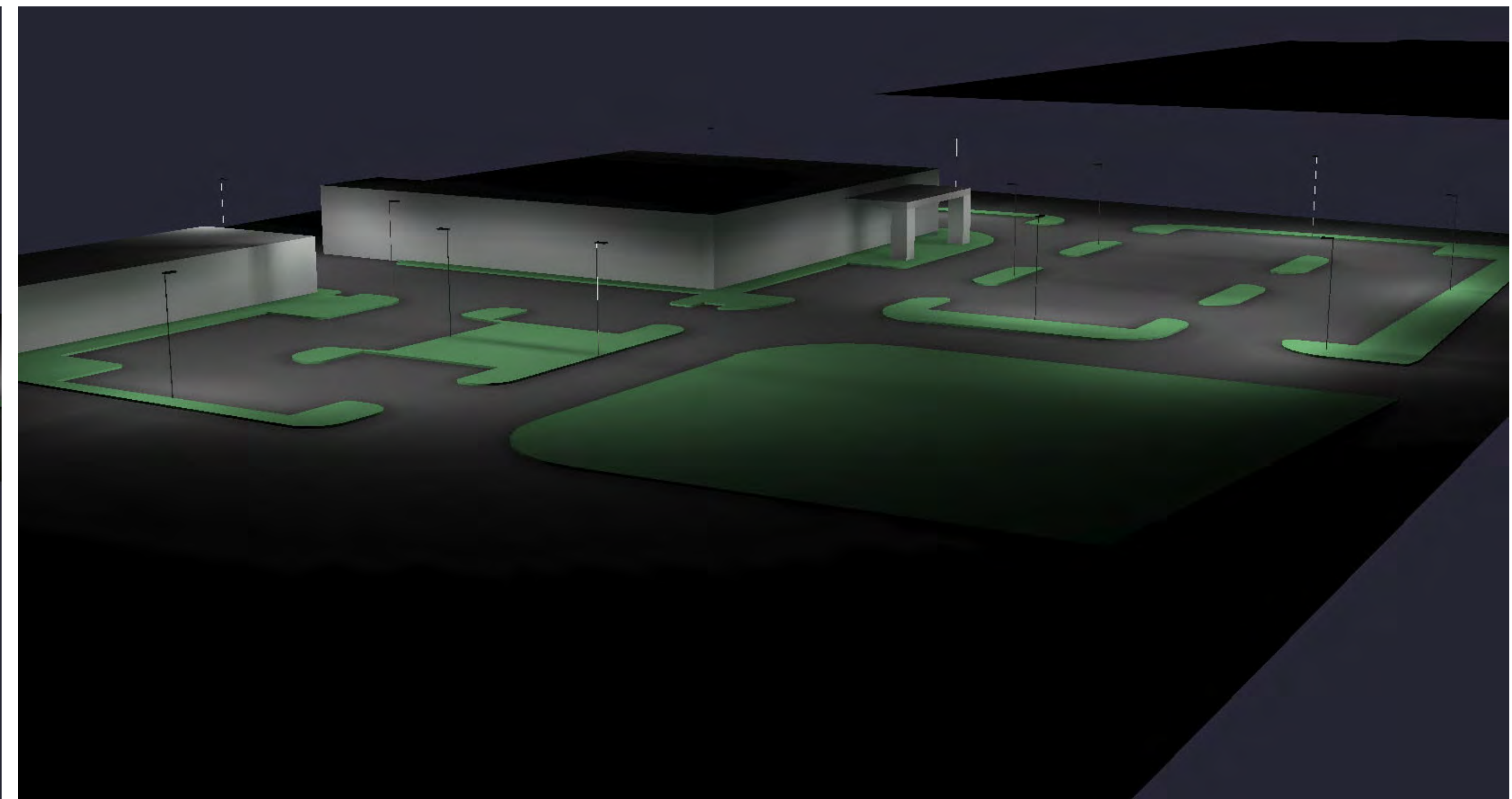
Plan View Grayscale



Plan View Pseudo



Side View



Side View

FIXTURE SCHEDULE

Luminaire Schedule									
Qty	Symbol	Label	Arrangement	Description	Lum. Watts	Total Watts	Lum. Lumens	LLF	
1		P2-T3-HS	SINGLE	Area Lighter / Acuity / RSX2 LED P2 40K R3 EGS	114.071	14792	14792	0.850	
5		P2-T5	SINGLE	Area Lighter / Acuity / RSX2 LED P2 40K R5	114.07	570.35	17657	0.850	
7		P3-T3-HS	SINGLE	Area Lighter / Acuity / RSX2 LED P3 40K R3 EGS	149.9762	1049.833	18691	0.850	

STATISTICAL SUMMARY

LPD Area Summary			
Label	Area	Total Watts	LPD
GO West Roseville	258983	1734.254	0.007

Calculation Summary							
Label	CalcType	Units	Avg	Max	Min	Avg/Min	Max/Min
Parking Lot	Illuminance	Fc	2.44	6.9	0.5	4.88	13.80



Head Office
400 S. Record St.
Dallas, TX 75202

Exterior Layout

CLIENT
GROCERY OUTLET
ADDRESS
West Roseville, CA

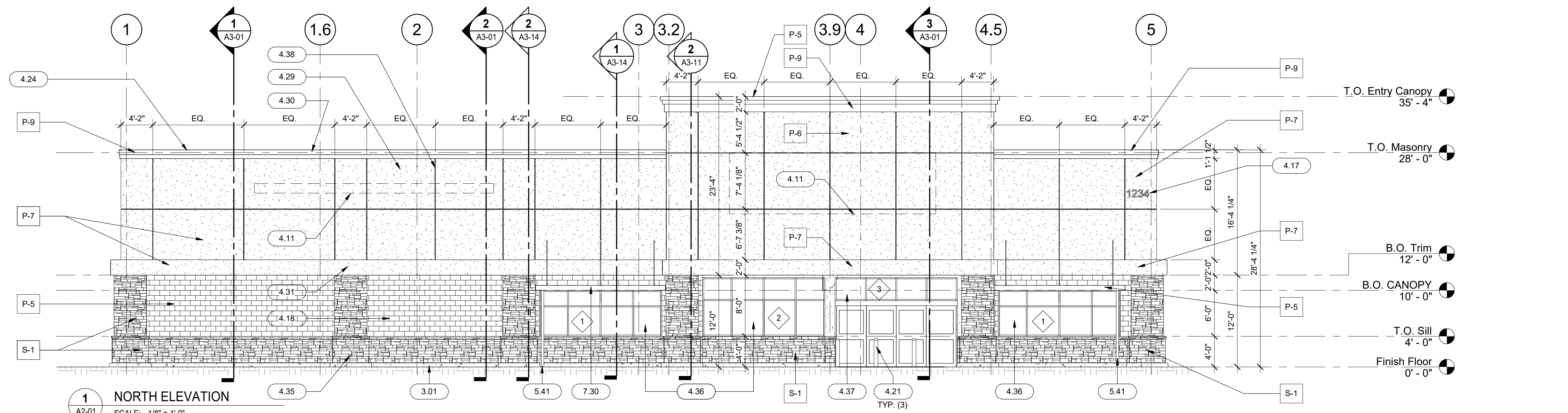
SHEET

CLIENT

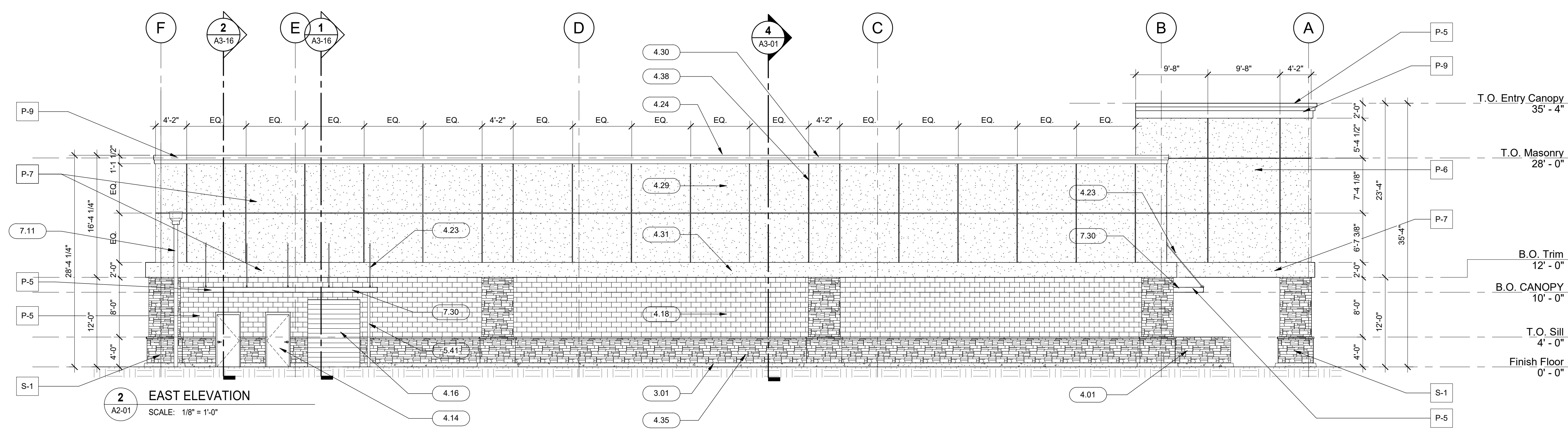
ADDRESS

DESIGNER: DW
DATE: 01.06.23
REV: 8
SCALE: 1" = 14'

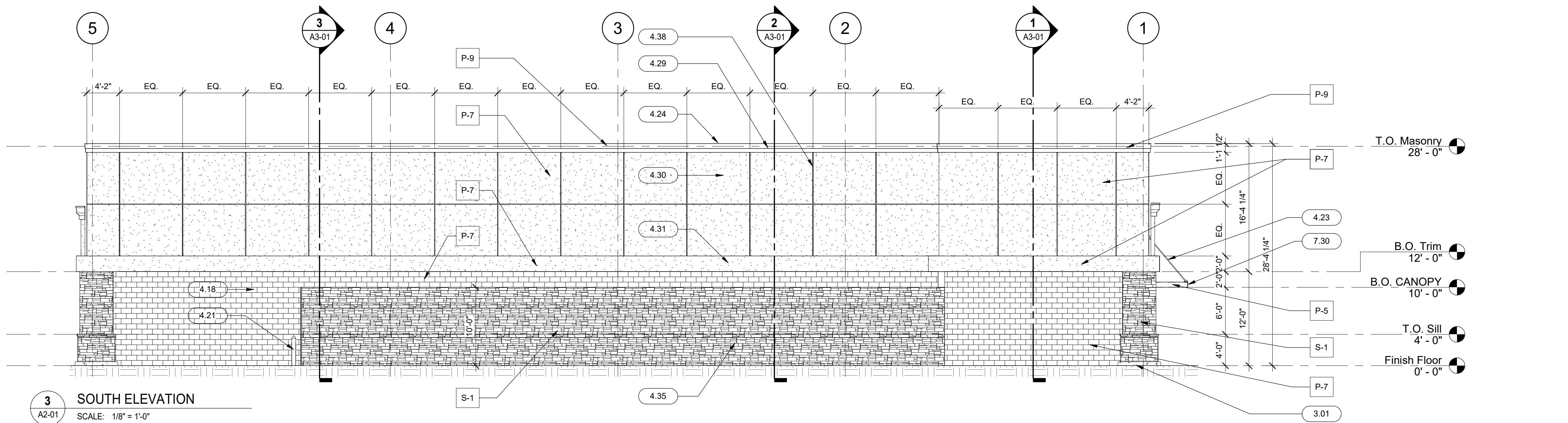
L03



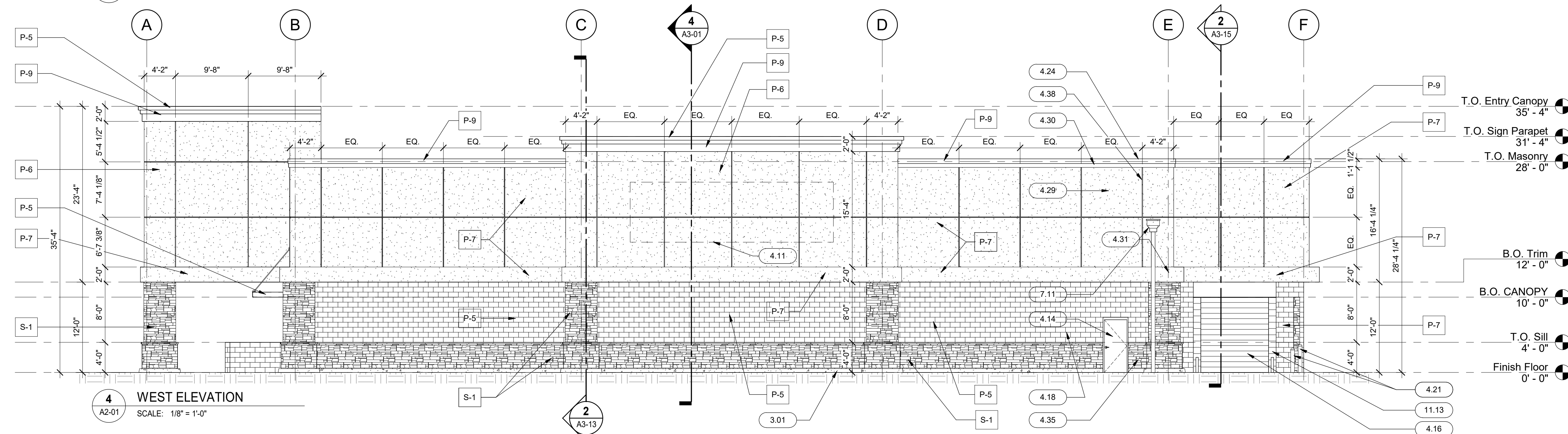
1 NORTH ELEVATION
SCALE: 1/8" = 1'-0"



2 EAST ELEVATION
SCALE: 1/8" = 1'-0"



3 SOUTH ELEVATION
SCALE: 1/8" = 1'-0"



4 WEST ELEVATION
SCALE: 1/8" = 1'-0"

ELEVATION NOTES	
1.	CEMENT PLASTER FINISH TO BE LIGHT TEXTURE.
2.	ROOF MOUNTED EQUIPMENT - TO BE BY TENANT IN FUTURE TENANT IMPROVEMENT PACKAGE - UNITS SHALL NOT BE VISIBLE FROM GROUND LEVEL OR SHALL BE SCREENED PER JURISDICTION REQUIREMENTS.
3.	REFER TO SHEET A6-01 FOR DOOR AND WINDOW SCHEDULES.

EXTERIOR PAINT SCHEDULE	
MARK	PAINT NAME
P-5	MFR: SHERWIN WILLIAMS, COLOR: "GROCERY OUTLET RED"
P-6	MFR: SHERWIN WILLIAMS, COLOR: "GROCERY OUTLET SHORELINE"
P-7	MFR: SHERWIN WILLIAMS, COLOR: "GROCERY OUTLET GRAY"
P-8	MFR: SHERWIN WILLIAMS, COLOR: "GROCERY OUTLET CHARCOAL"
P-9	MATCH ADJACENT BUILDING COPING COLOR
S-1	CULTURED STONE - BUCKEYE LIMESTONE

KEYNOTES	
3.01	CONCRETE PROTECTION CURB
4.01	4'-0" HIGH, 8" CMU WALL FOR FUTURE EXTERIOR CART CORRAL - PAINT PER SCHEDULE
4.11	EXTERIOR SIGNAGE - PROVIDED BY TENANT UNDER SEPARATE PERMIT, PER ELEVATIONS
4.14	HOLLOW METAL DOOR AND FRAME - PAINT PER SCHEDULE
4.16	ROLL-UP DELIVERY DOOR - PAINT PER SCHEDULE
4.17	BUILDING ADDRESS NUMBERS - TO BE PLACED IN SUCH A MANNER AS TO BE PLAINLY VISIBLE FROM THE STREET. 12" MIN. HIGH CHARACTERS WITH 3/64" MIN. STROKE. ON CONTRASTING BACKGROUND AND ILLUMINATED AS REQUIRED BY LOCAL FIRE JURISDICTION
4.18	EXPOSED CMU - SEAL AND PAINT PER SCHEDULE
4.21	CONCRETE FILLED PIPE BOLLARD - PAINT SAFETY YELLOW
4.23	STEEL SUSPENSION RODS & PLATES - PAINT PER SCHEDULE - REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION
4.24	METAL PARAPET COPING FLASHING - PAINT PER SCHEDULE
4.29	7/8" REINFORCED CEMENT PLASTER - PAINT PER SCHEDULE
4.30	CEMENT PLASTER CORNICE TRIM - PAINT PER SCHEDULE
4.31	CEMENT PLASTER ACCENT CAP (BAND) - PAINT PER SCHEDULE
4.35	ADHERED STONE VENEER - BUCKEYE LIMESTONE BY CULTURED STONE
4.36	STOREFRONT WINDOWS WITH CLEAR ANODIZED ALUMINUM FRAME AND DUAL PANE NON-TINTED GLAZING
4.37	STOREFRONT TRANSOM WINDOWS WITH CLEAR ANODIZED ALUMINUM FRAME AND DUAL PANE NON-TINTED GLAZING
4.38	METAL CONTROL JOINT/REVEAL. PAINT TO MATCH ADJACENT FINISH - REFER TO DETAIL 6/A3-12
5.41	CANOPY DOWNSPOUT CONNECTED UNDER SIDEWALK DRAIN ROOF SCUPPERS WITH EXTERIOR LEADER. SEE DETAIL ON THIS SHEET FOR MORE INFORMATION. OVERFLOW SCUPPER TO BE LOCATED 2'-0" AWAY FROM PRIMARY SCUPPER, MIN. 4" ABOVE ROOF LEVEL.
7.11	CANOPY - CONNECT DOWNSPOUT TO UNDER SIDEWALK DRAIN. REFER TO CIVIL
7.30	DOCK SEAL. REFER TO LOADING DOCK EQUIPMENT SCHEDULE ON SHEET A6-01

DATE	ISSUED FOR	REV
2022.11.29	50% REVIEW	
2022.12.16	90% REVIEW	
2023.01.13	ENTITLEMENT CYCLE 2	
2023.02.10	ENTITLEMENT CYCLE 3	

This drawing has been prepared solely for the use of Peter Bollinger Investment and there are no representations of any kind made by NORR to any party with whom NORR has not entered into a contract.

This drawing shall not be used for construction purposes until the seal appearing hereon is signed and dated by the Architect or Engineer.

Project Component
BUILDING SHELL

CLIENT
INTER-CAL REAL ESTATE CORPORATION

Consultants	
Survey:	N/A
Civil:	MORTON & PITALO, INC.
Architecture:	NORR
Structural:	VLMK
Mechanical:	COOLSYS
Electrical:	COOLSYS
Interiors:	N/A
Landscape:	

Seal(s)

NORR

150 W. Jefferson Avenue, Suite 1300
Detroit, MI, US 48226
nor.com

Project Manager D. GAROFALO	Drawn D. WILSON
Project Leader R. AVILA	Checked M. VON WERDER

Client
Peter Bollinger Investment

Project
West Roseville Retail Centers

1751 Pleasant Grove Blvd.
West Roseville, CA 95747

Drawing Title
EXTERIOR ELEVATIONS

Scale	As indicated
Project No.	JCDT21-0477
Drawing No.	A2-01

West Roseville Retail Center





GENERAL STRUCTURAL NOTES

BASES FOR DESIGN

- BUILDING CODE: CALIFORNIA BUILDING CODE 2019
- SOIL PARAMETERS:
ACTIVE PRESSURE: 45 PCF
SOIL WEIGHT: 120 PCF
SOIL BEARING CAPACITY: 2000 PCF
PASSIVE PRESSURE: 300 PCF
FRICTION COEFFICIENT: 0.30
- SEISMIC DESIGN:
RISK CATEGORY: I
SEISMIC IMPORTANCE FACTOR, I: 1.0
SITE CLASS: S1 (0.2 SECOND)
SS (0.2 SECOND): 0.433
S1 (1.0 SECOND): 0.220
SS (SHORT PERIOD): 0.450
SD1 (1-SECOND PERIOD): 0.317
SEISMIC DESIGN CATEGORY: D
R. GROUND SUPPORTED FENCE: 1.25
- WIND DESIGN:
WIND SPEED: 91 MPH
RISK CATEGORY: I
EXTERIOR PRESSURE COEFFICIENT (C_e): 1.3
WIND EXPOSURE: C
- FOUNDATION DESIGN AND SOIL PARAMETERS PER RECOMMENDATIONS BY WALLACE, KOHL & ASSOC., NO. 115202, DATED FEBRUARY 23, 2018 & UPDATE LETTER DATED JULY 9, 2021

GENERAL REQUIREMENTS

- THESE DOCUMENTS HAVE BEEN PREPARED USING STANDARDS OF PROFESSIONAL CARE AND SKILL ORDINARILY EXERCISED UNDER SIMILAR CONDITIONS BY PROFESSIONAL CONSULTANTS PRACTICING IN THE SAME FIELD AT THE SAME TIME IN THE SAME OR SIMILAR LOCALITY. THEY ASSUME THAT THE WORK DEPICTED WILL BE PERFORMED BY AN EXPERIENCED CONTRACTOR AND/OR WORKMEN WHO HAVE A WORKING KNOWLEDGE OF THE APPLICABLE CODE STANDARDS AND REQUIREMENTS AND INDUSTRY ACCEPTED STANDARD GOOD PRACTICE. AS NOT EVERY CONDITION OR ELEMENT IS (OR CAN BE) EXPLICITLY SHOWN ON THESE DRAWINGS, THE CONTRACTOR SHALL USE INDUSTRY ACCEPTED STANDARD GOOD PRACTICE FOR MISCELLANEOUS WORK NOT EXPPLICITLY SHOWN.
- ENGINEER SHALL NOT AT ANY TIME SUPERVISE, DIRECT OR HAVE CONTROL OVER CONTRACTOR'S WORK. NEITHER ENGINEER HAVE AUTHORITY OVER OR RESPONSIBILITY FOR THE MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OF CONSTRUCTION SELECTED OR USED BY CONTRACTOR, FOR SECURITY OR SAFETY AT THE SITE NOR FOR SAFETY PRECAUTIONS AND PROGRAMS INCIDENT TO CONTRACTOR'S WORK.
- ALL INSPECTIONS REQUIRED BY THE LOCAL BUILDING DEPARTMENTS, BUILDING CODES OR BY THE CONTRACTOR SHALL BE PROVIDED BY THE BUILDING DEPARTMENT OR BY AN APPROVED INDEPENDENT INSPECTION COMPANY.
- ALTHOUGH NOT NECESSARILY INDICATED AT A SPECIFIC LOCATION ON THE DRAWINGS, TYP DETAILS AND NOTES SHALL APPLY. DETAILS MAY SHOW ONLY ONE SIDE OF CONNECTION OR MAY OMIT INFORMATION FOR CLARITY.
- WHERE REFERENCE IS MADE TO VARIOUS TEST STANDARDS FOR MATERIALS, SUCH REFERENCE SHALL BE THE LATEST EDITION OR ADDENDA.
- RETAINING WALLS SHALL NOT BE SURCHARGED OR USED IN A TYPICAL CONFIGURATION, UNLESS OTHERWISE SHOWN ON THESE DRAWINGS. A NON-SURCHARGED/NON-STACKED CONFIGURATION EXISTS WHEN UPPER STRUCTURES ARE A MIN DISTANCE OF (1.5) MAX RETAINED HEIGHT AWAY, MEASURED FROM BACK FACE OF RETAINING WALL, UNLESS DEFINED OTHERWISE BY APPROVED GEOTECHNICAL REPORT.

FOUNDATION

- SITE PREPARATION AND GRADING REQUIREMENTS FROM THE GEOTECHNICAL REPORT AND ANY ADDENDA ALONG W/ ANY TESTS, INSPECTIONS, FIELD OBSERVATIONS, OR APPROVAL FROM THE GEOTECHNICAL ENGINEER RECOMMENDED BY THE GEOTECHNICAL REPORT SHALL BE COMPLETED PRIOR TO CONSTRUCTION OF FOUNDATIONS. IF NO GEOTECHNICAL REPORT IS SUBMITTED, SITE PREPARATION AND GRADING SHALL BE PER CBC SECTION 1804.
- W/IN THE TIME OF CONSTRUCTION AND W/IN THE LIFETIME OF THE WALL, THE OWNER MUST ENSURE THAT ALL SURFICIAL DRAINAGE IS DIRECTED AWAY FROM THE WALL SYSTEM.
- FOUNDATION INSPECTION PRIOR TO PLACEMENT OF CONCRETE INCLUDES: FOOTING STEEL LOCATION AT GRADE, AND SIZE/DEPTH AND CLEANLINESS OF FOUNDATION. ADDITIONAL SPECIAL INSPECTION AS REQUIRED BY JURISDICTION.
- FOOTING SHALL BE LEVEL, STEP FOOTING, AS REQ'D, WHERE GROUND SLOPES. HEIGHT OF STEP SHALL BE EQUAL TO HEIGHT OF CMU COURSE.

CONCRETE

- MINIMUM 28 DAY COMPRESSIVE STRENGTH OF CONCRETE (F_c) SHALL BE 2500 PSI (UNLESS HIGHER STRENGTH REQ'D PER APPROVED GEOTECHNICAL REPORT). CONCRETE MIX SHALL BE DESIGNED BY AN APPROVED LABORATORY. CONCRETE SHALL BE NORMAL WEIGHT OF 145 PCF USING HARD ROCK AGGREGATES CONFORMING TO ASTM C33.
- MAXIMUM SLUMP SHALL BE 5 INCHES. WATER SHALL BE CLEAN AND POTABLE.
- USE TYPE V PORTLAND CEMENT, AS REQ'D BY OWNER, JURISDICTION, OR SOILS ENGINEER, CONFORMING TO ASTM C150.
- A MAXIMUM OF 90 MINUTES MAY ELAPSE BETWEEN CONCRETE AND/OR GROUT BATCHING AND FIELD PLACEMENT.
- CONCRETE QUALITY, MIXING, WEATHER PROTECTION AND PLACING SHALL CONFORM TO CBC SECTION 1805.

BACKFILL

- BACKFILL MATERIAL AND PLACEMENT SHALL BE IN ACCORDANCE W/ RECOMMENDATIONS BY THE GEOTECHNICAL ENGINEER OR CBC SECTION 1804 IF GEOTECHNICAL REPORT NOT SUBMITTED.
- BACKFILL SHALL NOT BE PLACED AGAINST WALLS BELOW GRADE OR ATOP FOUNDATIONS UNTIL GROUT AND CONCRETE HAVE REACHED DESIGN STRENGTH.
- RETAINING WALL SYSTEM IS NOT DESIGNED TO WITHSTAND HYDROSTATIC PRESSURE. DRAINAGE SYSTEM SHALL BE PROVIDED TO PREVENT BUILD UP OF HYDROSTATIC PRESSURE. IN ADDITION, DRAINAGE SYSTEM SHALL NOT ADVERSELY AFFECT THE INTEGRITY OF THE RETAINING SYSTEM.

REINFORCING

- REINFORCING STEEL SHALL CONFORM TO ASTM A618. WELDING REINFORCING STEEL SHALL CONFORM TO ASTM A706. REINFORCING SHALL BE GRADE 60.
- LATEST ACI DETAILING MANUAL, ACI 318 AND CRSI MANUAL OF STANDARD PRACTICE APPLY TO REINFORCEMENT SPlicing, DETAILING, BENDING, AND PLACEMENT.
- REFER TO TYPICAL WALL INTERSECTION DETAIL FOR REINFORCING REQUIREMENTS AT WALL AND FOOTING INTERSECTIONS.
- REFER TO LAP SCHEDULE FOR MINIMUM O.C. SPACING, LAP SPLICE LENGTHS IN CONCRETE AND MASONRY, AND HOOK LENGTHS. NO WELDING (TACK, SPOT ETC.) OF REINFORCING ALLOWED. STAGGER SPLICES A MINIMUM OF (1) LAP LENGTH.
- ALL REINFORCEMENT SHALL BE BENT COLD. NO FIELD BENDING OF BARS IS ALLOWED UNLESS APPROVED BY THE ENGINEER.
- SUPPORT REINFORCEMENT ADEQUATELY TO SECURE REINFORCEMENT AGAINST DISPLACEMENT DURING CONCRETE PLACEMENT IN THE FOOTING AND GROUT PLACEMENT IN THE CMU.
- PROVIDE VERTICAL REINFORCING BARS, W/ HOOKS INTO FOOTING PER APPLICABLE DETAIL SECTION, IN GROUTED CELLS AT ALL WALL INTERSECTIONS, CORNERS, WALL ENDS, AND EACH SIDE OF CONTROL JOINTS. EXTEND ALL VERTICAL REINFORCING TO FOUNDATION EITHER CONTINUOUS OR WITH SUFFICIENT LAP REQUIREMENTS, AS INDICATED PER APPLICABLE DETAIL SECTIONS.
- HORIZONTAL REINFORCING SHALL BE 9 GAGE DIAMETER WIRE AND CONFORM TO ASTM A82 LADDER TYPE, 9 GAGE DIAMETER LAP JOINT REINFORCING ONE FULL CROSS SQUARE (6" MINIMUM LAP). HORIZONTAL REINFORCING SHALL BE HOT-DIPPED GALVANIZED OR APPROVED EQUIVALENT.

CONVENTIONAL MASONRY

- HOLLOW, MEDIUM-WEIGHT, LOAD BEARING PRECISION CONCRETE MASONRY UNITS (CMU) SHALL CONFORM TO ASTM C 90. MINIMUM COMPRESSIVE STRENGTH OF CMU SHALL BE 2000 PSI. ALL BLOCKS SHALL BE PLACED IN RUNNING BOND CONSTRUCTION. UNO W/ ALL VERTICAL CELLS IN ALIGNMENT. MIN UNIT HEIGHT SHALL BE 4" OR GREATER.
- GROUT SHALL CONFORM TO ASTM C476. MINIMUM GROUT COMPRESSIVE STRENGTH EQUALS OR EXCEEDS 1 M BUT NOT LESS THAN 2000 PSI. HOLD DOWN GROUT 1-1/2" BELOW TOP OF BLOCK AT GROUT LIFT JOINTS.
- MORTAR SHALL CONFORM TO ASTM C270 & CBC 2103, TYPE S, 2000 PSI MIN. MORTAR MUST BE A MIN OF 4 HOURS OLD PRIOR TO INITIAL TENSIONING.
- NET AREA COMPRESSIVE STRENGTH OF MASONRY SHALL BE (F_m) 2000 PSI MIN, PER THE UNIT STRENGTH METHOD.
- THICKNESS OF BED JOINTS SHALL NOT EXCEED 5/8".
- GROUT SOLID ALL REBAR REINFORCED CELLS AND ALL CELLS BELOW GRADE UNO.
- MASONRY CONSTRUCTION, INCLUDING BUT NOT LIMITED TO PREPARATION, ERECTION, REINFORCEMENT INSTALLATION AND GROUT PLACEMENT SHALL COMPLY WITH CBC SECTION 2104 AND W/ ACI 530.1.
- DAMPPOOF ALL CMU IN CONTACT W/ SOIL PER CBC SECTION 1805.
- TONGUE & GROOVE CMU MAY BE USED AT FENCE WALLS.
- VERTICAL CONTROL JOINTS TO BE PLACED AT 20'-0" O.C. PER TYP DETAIL.

PROTO-II

- PROTO II HARDWARE IS DEFINED AS: TENSION RODS, BEARING PLATES, COUPLERS, NUTS, THRODS, DTI, PLASTIC SADDLES. ALL OF THIS HARDWARE SHALL BE SUPPLIED BY ONLY AN APPROVED PROTO II INSTALLER TO THE CERTIFIED INSTALLER. POST TENSION RODS SHALL BE 7/16" DIAMETER W/ 1/2" ROLL, THREADS CONFORMING TO ASTM A641 (F_y=60 KSI) AND HAVE STEEL CHEMISTRY SO THAT BENDING AND THREADING CAN BE ACCOMPLISHED W/OUT DAMAGE TO THE POST TENSION ROD. AREA OF TENSION RODS=1503 SQ IN. BEARING PLATES ARE 1.4" THICK (F_y=50 KSI). SEE DETAIL TYPICAL TOP OF PROTO II WALL FOR WIDTHS. 1/2" COUPLERS SHALL BE PER ASTM A563 GRADE A, AND THE COUPLER NUT MUST FULLY ENGAGE THE UPPER AND LOWER ROD, FULLY ENGAGED AS DEFINED AS 1/2" MIN INTO COUPLER. 1/2" NUTS ARE TO BE GRADE 6 PER ASTM A325. 1/2" ALL THREADS PER ASTM A307, GRADE 60. DTI IS MFR'D ASTM F959. PLASTIC REBAR SADDLES ARE NON-STRUCTURAL.
- PROVIDE CONT FULL HEIGHT RODS W/ MIN OF 3" L" HOOK W/ 1/2" NUT AT END OF TENSION ROD INTO FOOTING PER APPLICABLE DETAIL SECTION AND AT CONTROL JOINTS PER TYP DETAIL. CONTRACTOR'S OPTION RODS MAY BE STABBED INTO WET CONCRETE OR TIED INTO PLACE.
- IN LIEU OF FULL HEIGHT RODS, CONTRACTOR MAY USE SHORTER RODS, 1/2" COUPLERS AND STRAIGHT RODS THREADED BOTH ENDS FOR ADDITIONAL TENSION. NO COUPLERS MAY OCCUR DIRECTLY BELOW AND IN CONTACT W/ THE BEARING PLATE. NO BOND BEAM BLOCK MAY BE USED AT PLATE/TENSION LOCATOR.
- A PROTO II DTI SHALL BE INSTALLED AT EVERY TENSION BETWEEN THE BEARING PLATE AND NUT W/ THE DTI TABS FACING UP AGAINST THE BOTTOM OF THE NUT. THE SPECIAL DEPUTY INSPECTOR REQUIRED AT THE TIME OF FINAL TENSIONING BY A DEPUTY INSPECTOR SHALL VERIFY FINAL TENSIONING TO 6,000 LBS BY 1 OF 2 METHODS: METHOD 1: VISUAL INSPECTION OF DTI TABS FACING UP AND COLLAPSED AGAINST NUT W/ NO LIGHT LEAKAGE BETWEEN THE PROTO II DTI AND BOTTOM OF NUT. METHOD 2: USE OF A CALIBRATED TORQUE WRENCH TORQUED TO 55 FT-LBS. DTI MUST STILL BE PLACED WITH METHOD 2. NO VISUAL INSPECTION OF DTI REQUIRED WHEN USING METHOD 2. INSPECTOR SHALL OBSERVE THE USE OF THREAD LUBRICANT, THE POSITION OF PLATE ON BLOCK, AND INTEGRITY OF MORTAR JOINTS. IN ADDITION, THE INSTALLER SHALL PROVIDE A SIGNED REPORT TO ALL APPROPRIATE PARTIES. PROTO II MASONRY DESIGN IS BASED ON THIS SPECIAL INSPECTION.
- VERTICAL CONTROL JOINTS TO BE PLACED AT MAX 36'-0" O.C. IN ALL NON-STUCCOED WALLS AND 20'-0" O.C. IN STUCCOED WALLS W/ CLEAN VERTICAL BREAK OF ALL MATERIALS.
- CONCRETE AT FOOTING SHALL BE A MIN OF 48 HOURS OLD, CMU BLOCK SHALL BE A MIN OF 7 DAYS OLD, & MORTAR SHALL BE A MIN OF 24 HRS OLD PRIOR TO FINAL TENSIONING.

STANDARD ABBREVIATIONS

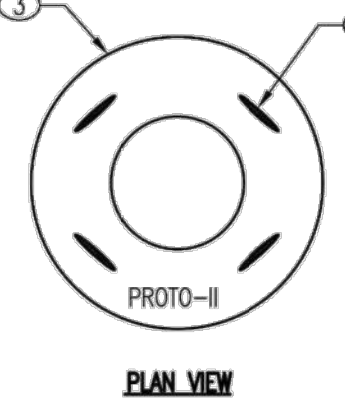
ACI	AMERICAN CONCRETE INSTITUTE
AISC	AMERICAN INSTITUTE OF STEEL CONSTRUCTION
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE
ALT	ALTERNATE
ASTM	AMERICAN SOCIETY FOR TESTING AND MATERIALS
CBC	CALIFORNIA BUILDING CODE
CL	CENTERLINE
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
CR	CENTER
DI	DIRECT TENSION INDICATOR
EQ	EQUAL
EW	EACH WAY
FT	FOOTING
FTG	FOOTING
GSN	GENERAL STRUCTURAL NOTES
ICC	INTERNATIONAL CODE COUNCIL INFORMATION
INFO	INFORMATION
MFR	MANUFACTURER
MAX	MAXIMUM
MIN	MINIMUM
MISC	MISCELLANEOUS
NIS	NOT TO SCALE
O.C.	ON-CENTER
P.F.	POUNDS PER LINEAR FOOT
PSF	POUNDS PER SQUARE FOOT
REQ'D	REQUIRED
REIN	REINFORCING
REO'D	REQUIRED
SIM	SIMILAR
SPEC	SPECIFICATION
SO	SQUARE
STD	STANDARD
T&B	TOP AND BOTTOM TRANSVERSE
TRANS	TRANSVERSE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VERT	VERTICAL
W/	WITH
W/O	WITHOUT

KEYNOTES

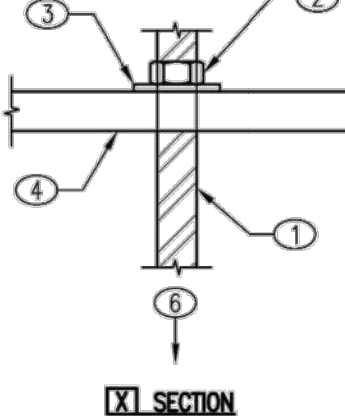
- MIN FINISHED BEND DIA FOR ALL REINFORCING EXCEPT STIRRUPS AND TIES PER THE FOLLOWING: 6" FOR #6 AND SMALLER, 8" FOR #8 THRU #11, 12" FOR #14 AND #18
- 6" DIA FOR #5 AND SMALLER, 12" DIA FOR #6 THROUGH #8
- MIN FINISHED BEND DIA FOR STIRRUPS AND TIES ONLY 4" DIA FOR #5 AND SMALLER, 6" DIA FOR #6 THRU #8

NOTES

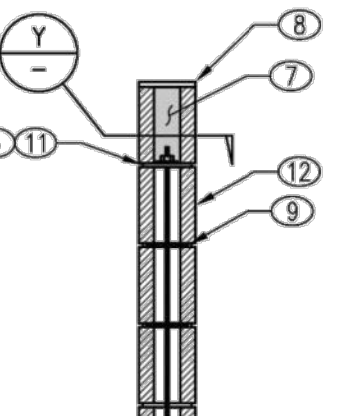
- "d" = BAR DIA
- ALL REIN SHALL BE BENT COLD UNO ON PLANS OR DETAILS
- REIN PARTIALLY EMBEDDED IN CONCRETE SHALL NOT BE FIELD BENT UNO ON PLANS OR DETAILS



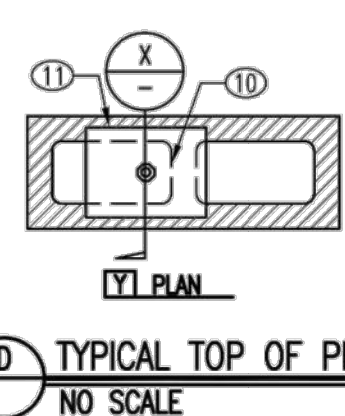
1 TYPICAL TOP OF PROTO II WALL
NO SCALE



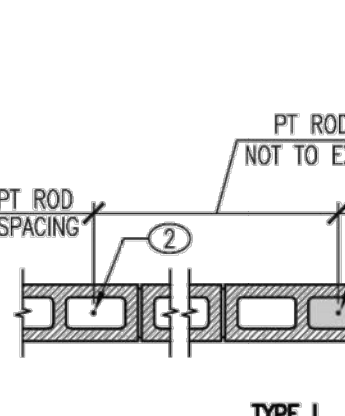
2 TYPICAL BEND IN REIN
NO SCALE



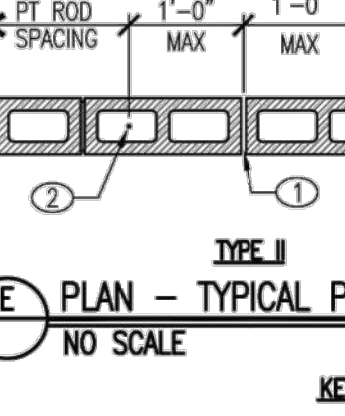
3 STRIPP AND THE HOOKS
NO SCALE



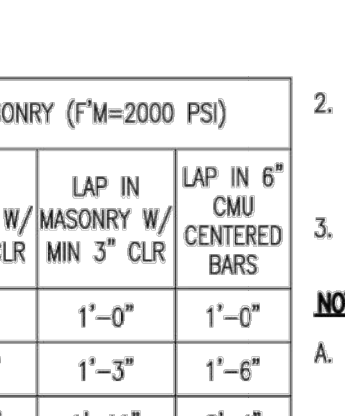
4 PLAN - TYPICAL PROTO II CONTROL JOINT
NO SCALE



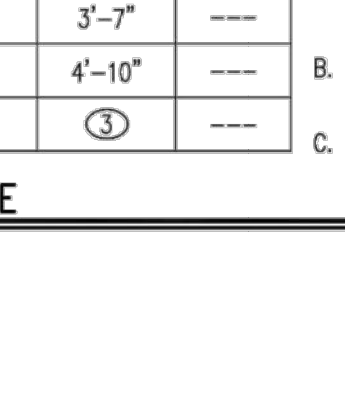
5 PLAN - TYPICAL PROTO II CONTROL JOINT
NO SCALE



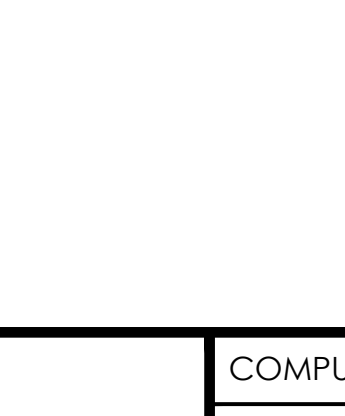
6 TYPICAL REINFORCING LAP SCHEDULE
NO SCALE



7 TYPICAL STEP IN FOOTING
NO SCALE



8 PLAN-TYP CONVENTIONAL CMU WALL CONTROL JOINT
NO SCALE



9 TYPICAL TRANS TOP REIN HOOK AT NO-TOE FTGS
NO SCALE

KEYNOTES

- POST TENSION ROD
- NUT
- DTI
- BEARING TOP PLATE
- COLLAPSIBLE TABS
- MIN TENSION TO BE 6,000 LBS LOAD AND CONFIRMED BY ONE OF TWO METHODS PER NOTES "B" AND "C" BELOW
- AFTER TENSION INSPECTION, PLACE MORTAR MOUND OVER THE TOP OF ROD/PLATE/NUT LOCATION BLOCK
- OPT CAP BLOCK
- CONTINUOUS HORIZONTAL JOINT REINFORCING PER GSN
- CENTER WEB OR END FACE SHELL BELOW
- STEEL PLATE SIZES:
A. 4" PROTO II: 1/4"x3"x6"
B. 4" SLUMP PROTO II: 1/4"x2-1/2"x6"
C. 6" PROTO II: 1/4"x4-1/2"x6"
D. 6" SLUMP PROTO II: 1/4"x4"x6"
E. 8" PROTO II: 1/4"x6-1/2"x6"
- DO NOT USE BOND BEAM BLOCK AT BEARING PLATE LOCATIONS

NOTES

- PROTO-II DTI TO BE USED AT EACH TENSION ROD, TABS FACING UP AGAINST BOTTOM OF 1/2" NUT AND TABS COLLAPSED TO ACHIEVE TENSION (NO LIGHT SPACES BETWEEN BOT OF NUT AND DTI)
- AS ALTERNATE TO VISUAL INSPECTION OF TABS, INSPECTION OF NUT TORQUE MAY BE ACHIEVED BY USE OF CALIBRATED TORQUE WRENCH. TORQUE, NUTS TO 55 FT-LBS. DTI STILL MUST BE PLACED ON ROD IS USING TORQUE WRENCH METHOD. SEE GSN FOR ADD'L INFO
- DEPUTY INSPECTOR SHALL PERFORM A VISUAL INSPECTION TO CONFIRM THE DTI IS COLLAPSED W/ NO LIGHT LEAKS BETWEEN THE TABS AND BOTTOM OF NUT
- INSTALLER MUST HAVE SPECIAL INSPECTION OF TENSIONING PERFORMED BY ONE OF THE TWO METHODS NOTED ABOVE. SPECIAL INSPECTOR TO PROVIDE A COMPLETED REPORT TO LISTED PARTIES

KEYNOTES

- 1/2" EXPANSION JOINT OR END OF WALL, AS OCCURS
- TYPICAL WALL PT ROD EACH SIDE OF JOINT
- #4 VERT REIN W/ STD HOOK EMBEDDED 6" MIN INTO FOOTING, SOLID GROUT REIN CELL W/ GROUT OR 8" MAX HIGH MORTAR LIFTS

NOTES

- VERTICAL EXPANSION JOINTS AT SPACING PER GSN
- "TYPE 1" OR "TYPE 1" MAY BE USED AT CONTRACTOR'S OPTION, UNO
- HORIZONTAL REIN SHALL NOT RUN CONT THROUGH JOINT

KEYNOTES

- STRAIGHT EXTENSION LENGTH ONLY, DOES NOT INCLUDE LENGTH OF BAR AT 90-DEGREE BEND
- TOP BARS ARE TRANSVERSE TOP BARS SO PLACED THAT 12" OR MORE OF FRESH CONCRETE IS CAST IN MEMBER BELOW SPLICE
- MECHANICAL SPLICE COUPLER PER GSN REQUIRED

NOTES

- CONCRETE LAP LENGTHS BASED ON ACI 318-14, SECTION 25.4.2.3 WITH CLASS B LAP SPLICE PER 25.5.6 FOR NORMAL WEIGHT CONCRETE AND UNCOATED BARS
- MASONRY LAP LENGTHS PER 2018 IBC SECTION 2107 & 2108
- LAP LENGTHS BASED OFF OF ALLOWABLE STRESS OF REINFORCING OF F_y=60 KSI

KEYNOTES

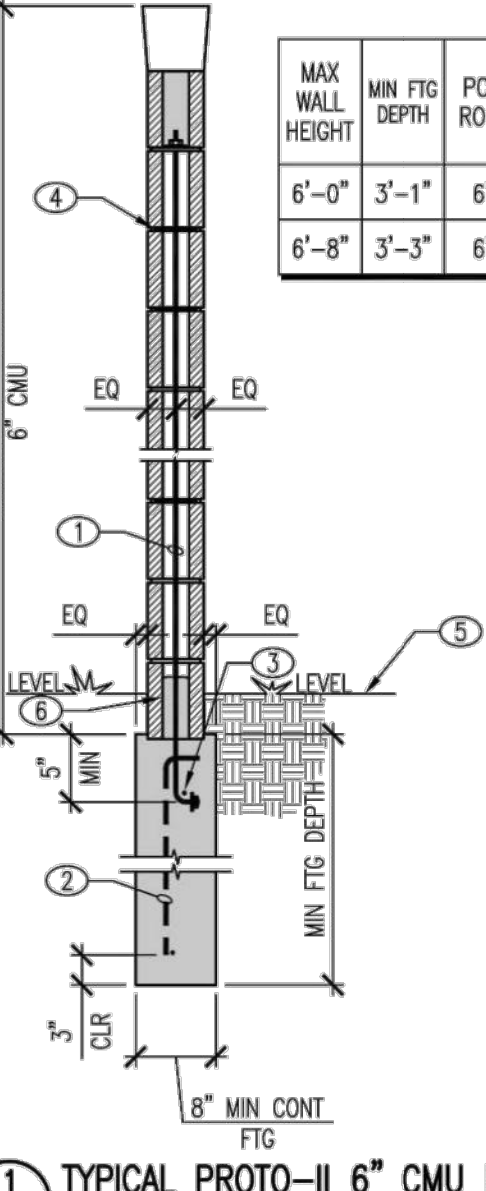
- STEP IN FOOTING ELEVATION PER PLAN
- WIDTH EQUAL TO FOOTING THICKNESS OR 18", WHICHEVER IS GREATER
- SLOPE REINFORCING AT STEP TO MATCH AND LAP W/ LONGITUDINAL BARS
- LINE OF FINISH GRADE

KEYNOTES

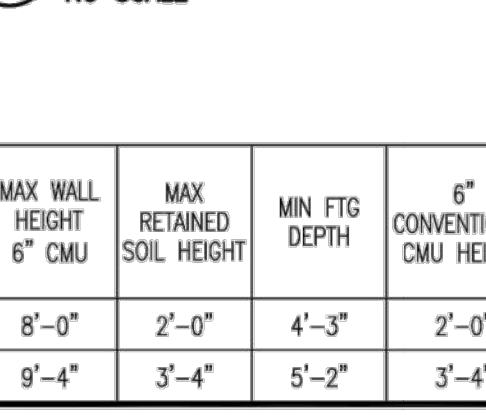
- TRANS TOP REIN PER PLAN
- CONT REIN PER PLAN

NOTES

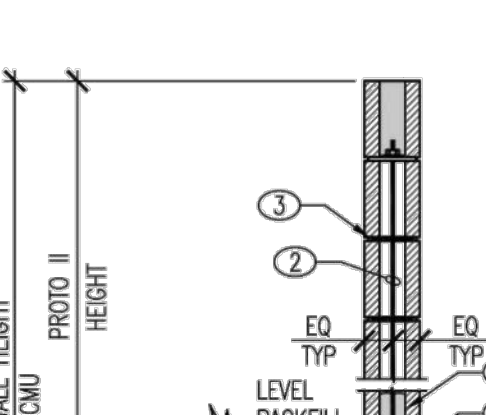
- LOCATE VERTICAL EXPANSION JOINTS PER GSN
- "TYPE 1" OR "TYPE 2" MAY BE USED AT CONTRACTOR'S OPTION, UNO
- HORIZONTAL REIN (#4 CONT OR DUR-O-WALL) SHALL NOT RUN CONT THROUGH JOINT



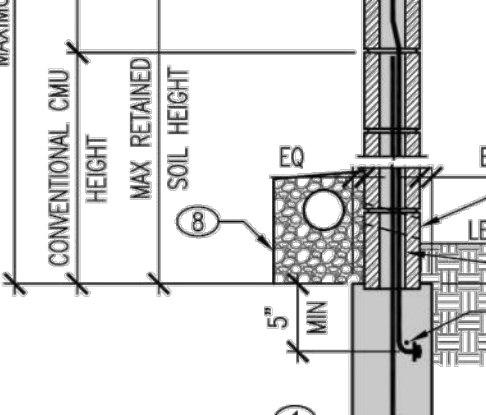
10 TYPICAL PROTO-II 6" CMU FENCE W/ CONT TRENCH FTG
NO SCALE



11 TYP 6" CMU RETAINERS W/ PROTO-II FENCE
NO SCALE



12 TYP 16" SQ CMU PILASTER W/ TRENCH FTG
NO SCALE



13 TYPICAL TRANS TOP REIN HOOK AT NO-TOE FTGS
NO SCALE

KEYNOTES

- POST TENSION ROD. REFER TO SCHEDULE FOR SPACING
- VERT FTG REIN PER SCHEDULE W/ STD HOOK IN CENTER OF TRENCH FTG. ROTATE REIN TO MAINTAIN 3" CLR ALL AROUND
- CONT REIN PER SCHEDULE. MIN (1) CONT BAR AT PT ROD, AS SHOWN. BARS SHALL BE SPACED AT 18" O.C. MAX
- HORIZONTAL JOINT REINFORCING PER GSN. PLACE IN FIRST TWO JOINTS BELOW PLATE WASHER AND 2'-0" O.C. THEREAFTER UNTIL THE TOP OF FOOTING IS REACHED
- TOP OF LEVEL NATURAL GRADE OR COMPACTED SUBGRADE
- 3" MORTAR COVER AROUND COUPLER AND/OR POST TENSIONED ROD AT FIRST COURSE

NOTES

- REFER TO GSN AND TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS AND ITEMS SHOWN BUT NOT NOTED
- WALL SHALL NOT BE USED AS A FLOOR WALL OR OTHERWISE SURCHARGED, UNO
- PLACE FIRST BLOCK INTO WET CONC TO RECESS 1/2" MIN, 3/4" MAX
- SPECIAL INSPECTION AS REQUIRED BY JURISDICTION

KEYNOTES

- REBAR REIN. REFER TO SCHEDULE FOR SPACING. EXTEND REIN CONT FROM BOT OF FOOTING TO TOP OF CONVENTIONAL CMU, AS SHOWN
- POST TENSION ROD. REFER TO SCHEDULE FOR SPACING. EXTEND REIN TO EMBED INTO FOOTING AS SHOWN. RODS NOT TO OCCUR IN SAME CELL AS CONVENTIONAL REIN. ONLY GROUT CELLS W/ CONVENTIONAL REIN W/ CONVENTIONAL CMU HEIGHT
- HORIZONTAL JOINT REINFORCING PER GSN. PLACE IN FIRST TWO JOINTS BELOW PLATE WASHER AND 2'-0" O.C. THEREAFTER UNTIL THE TOP OF CONVENTIONAL CMU IS REACHED
- #4 CONT REIN TOP & BOT & 16" O.C. IN BETWEEN
- TOP OF LEVEL NATURAL GRADE OR COMPACTED SUBGRADE
- #3 CONT IN 8" MIN SOLID GROUTED BOND BEAM
- 3" MORTAR COVER AROUND POST TENSIONED ROD AT FIRST COURSE ABOVE GRADE
- REFER TO APPROVED GEOTECHNICAL REPORT FOR WATER PROOFING/DRAINAGE REQUIREMENTS AT BACK FACE OF WALL. IN ADDITION, PROVIDE 2" DIA HOLE AT 6'-0" O.C. FOR WEEPERS OR PROVIDE APPROVED ALTERNATE DRAINAGE SYSTEM BY OTHERS

NOTES

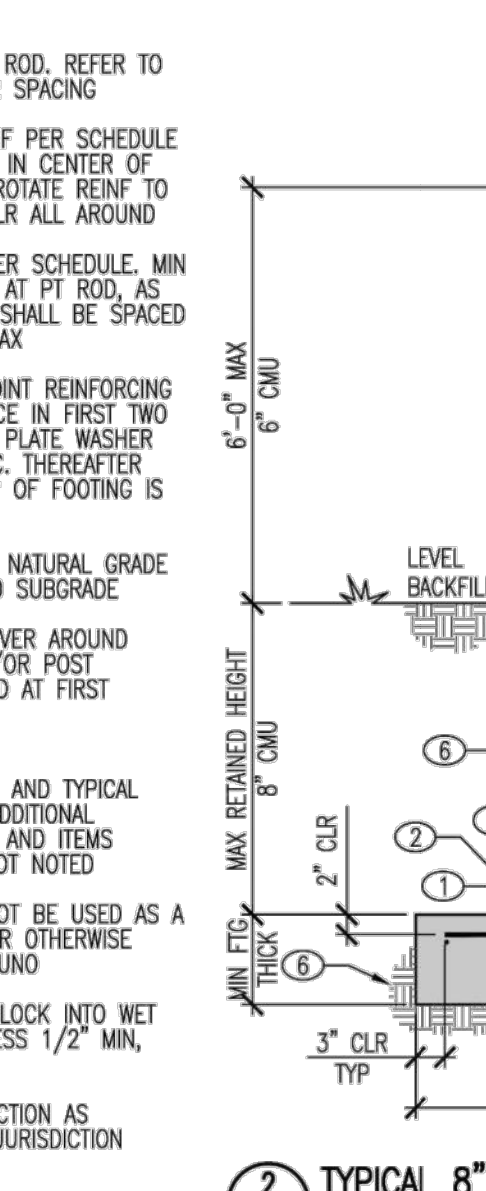
- REFER TO GSN AND TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS AND ITEMS SHOWN BUT NOT NOTED
- RETAINING WALL SHALL NOT BE SURCHARGED OR USED IN A STACKED CONFIGURATION, EXCEPT AS NOTED. FENCE WALL SHALL NOT BE FLOOD SURCHARGED, EXCEPT AS NOTED
- PLACE FIRST BLOCK INTO WET CONC TO RECESS 1/2" MIN, 3/4" MAX
- CONVENTIONAL MASONRY DESIGNED TO FULL-STRESSES. SPECIAL INSPECTION OF MASONRY AS REQUIRED BY JURISDICTION

KEYNOTES

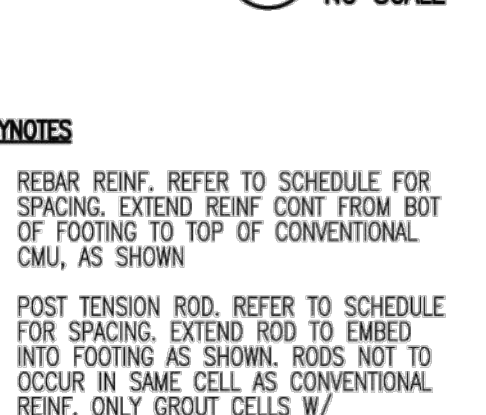
- 1/2" EXPANSION JOINT
- FULL HEIGHT VERTICAL #4 BAR W/ DOWEL REINFORCING TO LAP AND MATCH, CENTER IN PILASTER BLOCK
- TYPICAL WALL REINFORCING EACH SIDE OF JOINT

NOTES

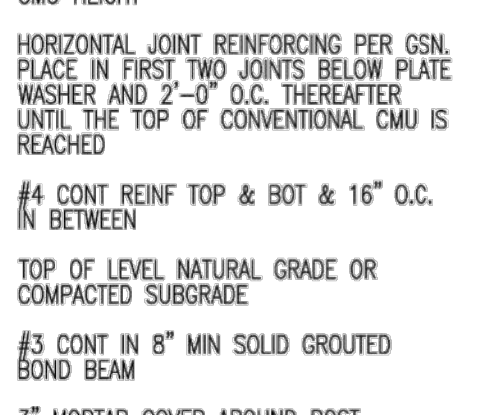
- LOCATE VERTICAL EXPANSION JOINTS PER GSN
- "TYPE 1" OR "TYPE 2" MAY BE USED AT CONTRACTOR'S OPTION, UNO
- HORIZONTAL REIN (#4 CONT OR DUR-O-WALL) SHALL NOT RUN CONT THROUGH JOINT



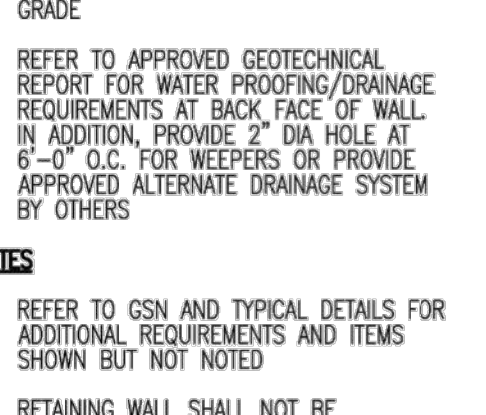
14 TYPICAL PROTO-II 6" CMU FENCE W/ CONT TRENCH FTG
NO SCALE



15 TYP 6" CMU RETAINERS W/ PROTO-II FENCE
NO SCALE



16 TYP 16" SQ CMU PILASTER W/ TRENCH FTG
NO SCALE



17 TYPICAL TRANS TOP REIN HOOK AT NO-TOE FTGS
NO SCALE

KEYNOTES

- POST TENSION ROD. REFER TO SCHEDULE FOR SPACING
- VERT FTG REIN PER SCHEDULE W/ STD HOOK IN CENTER OF TRENCH FTG. ROTATE REIN TO MAINTAIN 3" CLR ALL AROUND
- CONT REIN PER SCHEDULE. MIN (1) CONT BAR AT PT ROD, AS SHOWN. BARS SHALL BE SPACED AT 18" O.C. MAX
- HORIZONTAL JOINT REINFORCING PER GSN. PLACE IN FIRST TWO JOINTS BELOW PLATE WASHER AND 2'-0" O.C. THEREAFTER UNTIL THE TOP OF FOOTING IS REACHED
- TOP OF LEVEL NATURAL GRADE OR COMPACTED SUBGRADE
- 3" MORTAR COVER AROUND COUPLER AND/OR POST TENSIONED ROD AT FIRST COURSE

NOTES

- REFER TO GSN AND TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS AND ITEMS SHOWN BUT NOT NOTED
- WALL SHALL NOT BE USED AS A FLOOR WALL OR OTHERWISE SURCHARGED, UNO
- PLACE FIRST BLOCK INTO WET CONC TO RECESS 1/2" MIN, 3/4" MAX
- SPECIAL INSPECTION AS REQUIRED BY JURISDICTION

KEYNOTES

- REBAR REIN. REFER TO SCHEDULE FOR SPACING. EXTEND REIN CONT FROM BOT OF FOOTING TO TOP OF CONVENTIONAL CMU, AS SHOWN
- POST TENSION ROD. REFER TO SCHEDULE FOR SPACING. EXTEND REIN TO EMBED INTO FOOTING AS SHOWN. RODS NOT TO OCCUR IN SAME CELL AS CONVENTIONAL REIN. ONLY GROUT CELLS W/ CONVENTIONAL REIN W/ CONVENTIONAL CMU HEIGHT
- HORIZONTAL JOINT REINFORCING PER GSN. PLACE IN FIRST TWO JOINTS BELOW PLATE WASHER AND 2'-0" O.C. THEREAFTER UNTIL THE TOP OF CONVENTIONAL CMU IS REACHED
- #4 CONT REIN TOP & BOT & 16" O.C. IN BETWEEN
- TOP OF LEVEL NATURAL GRADE OR COMPACTED SUBGRADE
- #3 CONT IN 8" MIN SOLID GROUTED BOND BEAM
- 3" MORTAR COVER AROUND POST TENSIONED ROD AT FIRST COURSE ABOVE GRADE
- REFER TO APPROVED GEOTECHNICAL REPORT FOR WATER PROOFING/DRAINAGE REQUIREMENTS AT BACK FACE OF WALL. IN ADDITION, PROVIDE 2" DIA HOLE AT 6'-0" O.C. FOR WEEPERS OR PROVIDE APPROVED ALTERNATE DRAINAGE SYSTEM BY OTHERS

NOTES

- REFER TO GSN AND TYPICAL DETAILS FOR ADDITIONAL REQUIREMENTS AND ITEMS SHOWN BUT NOT NOTED
- RETAINING WALL SHALL NOT BE SURCHARGED OR USED IN A STACKED CONFIGURATION, EXCEPT AS NOTED. FENCE WALL SHALL NOT BE FLOOD SURCHARGED, EXCEPT AS NOTED
- PLACE FIRST BLOCK INTO WET CONC TO RECESS 1/2" MIN, 3/4" MAX
- CONVENTIONAL MASONRY DESIGNED TO FULL-STRESSES. SPECIAL INSPECTION OF MASONRY AS REQUIRED BY JURISDICTION

KEYNOTES

- 1/2" EXPANSION JOINT
- FULL HEIGHT VERTICAL #4 BAR W/ DOWEL REINFORCING TO LAP AND MATCH, CENTER IN PILASTER BLOCK
- TYPICAL WALL REINFORCING EACH SIDE OF JOINT

NOTES

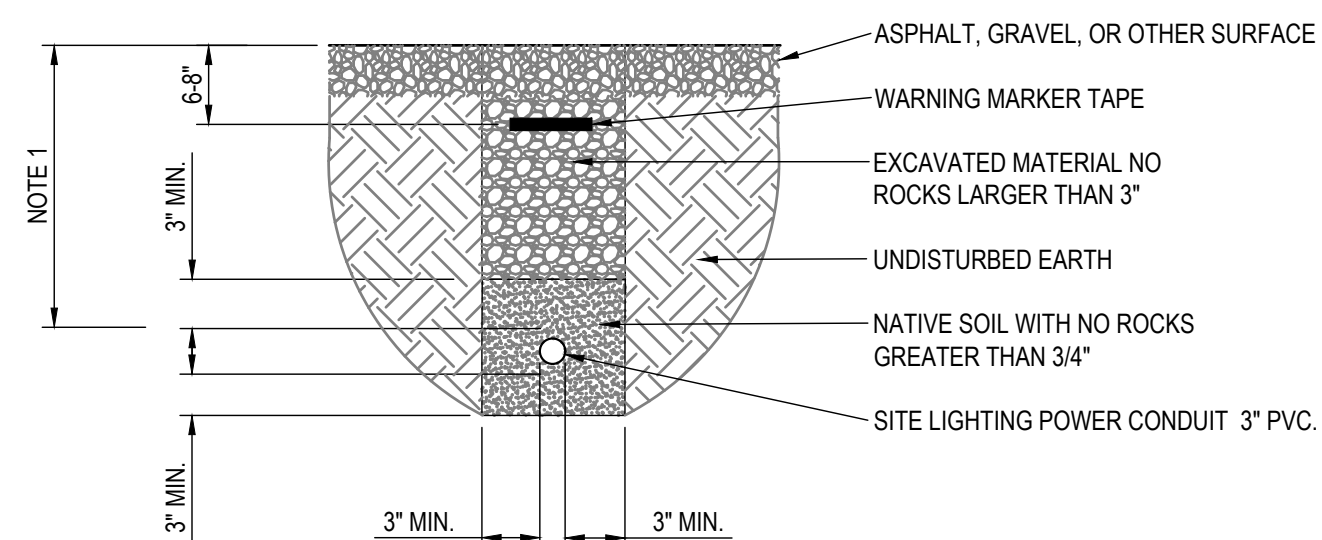
- LOCATE VERTICAL EXPANSION JOINTS PER GSN
- "TYPE 1" OR "TYPE 2" MAY BE USED AT CONTRACTOR'S OPTION, UNO
- HORIZONTAL REIN (#4 CONT OR DUR-O-WALL) SHALL NOT RUN CONT THROUGH JOINT

MAX RETAINED HEIGHT 8" CMU	MIN FTG WIDTH	MIN FTG THICK	TRANS TOP REIN IN FTG (1)	* CONT TOP BARS IN FT
----------------------------	---------------	---------------	---------------------------	-----------------------

ELECTRICAL SPECIFICATIONS:

REVISED: 2023-02-21

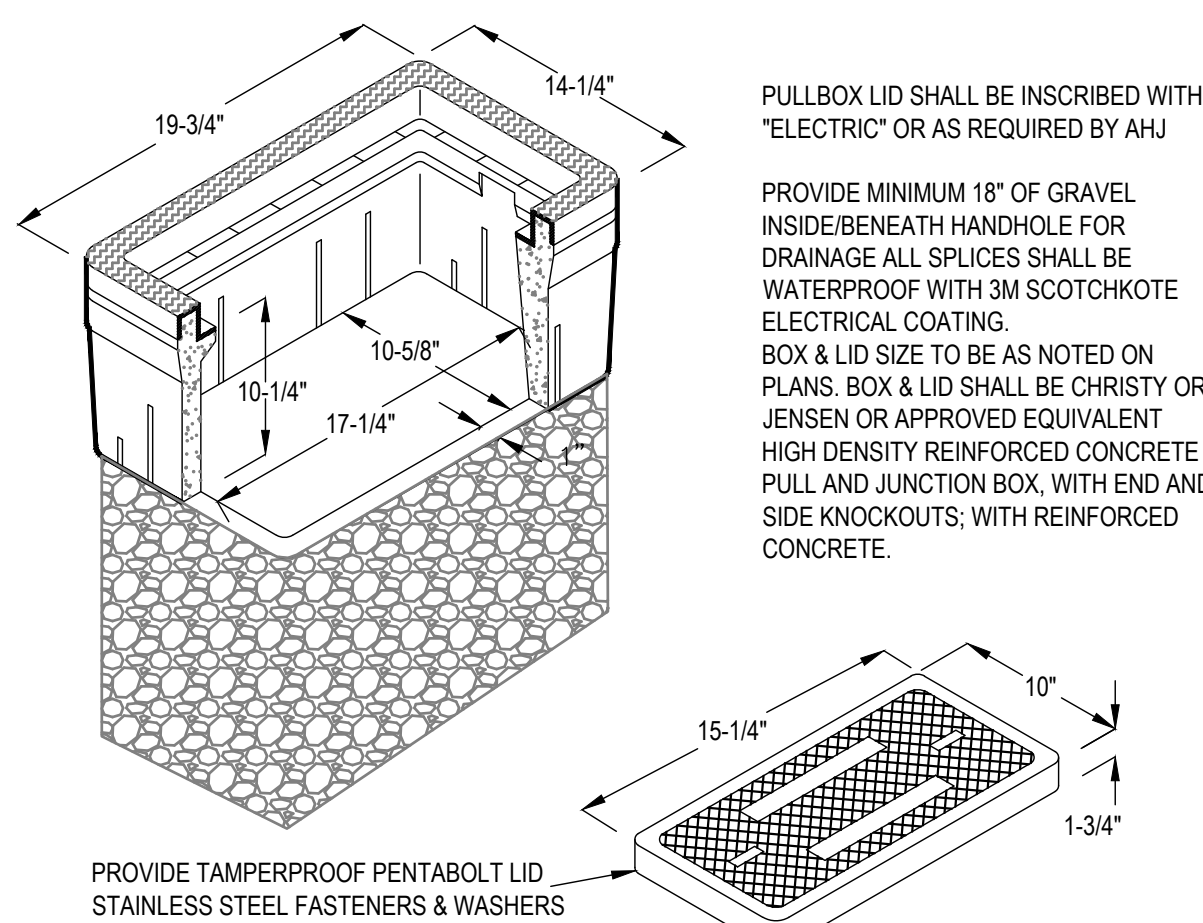
- 1. ALL WORK SHALL BE IN ACCORDANCE WITH THE CURRENT CALIFORNIA ELECTRICAL CODE, PLUS ALL AUTHORITIES HAVING JURISDICTION INCLUDING APPLICABLE FEDERAL, STATE AND LOCAL CODES, STANDARDS, ORDINANCES, RULES AND REGULATIONS.
2. FURNISH ALL LABOR, MATERIALS, TOOLS, EQUIPMENT, STORAGE, FACILITIES AND TEMPORARY CONSTRUCTION NECESSARY FOR COMPLETE AND OPERATING NEW, MODIFIED SYSTEMS, AND MAINTAIN SERVICES TO EXISTING SYSTEMS.
3. DRAWINGS ARE DIAGRAMMATIC AND SHOW THE GENERAL EXTENT AND ARRANGEMENT OF THE WORK REQUIRED WHICH SHALL BE FOLLOWED AS CLOSELY AS THE ACTUAL CONSTRUCTION SITE CONDITIONS AND WORK OF THE OTHER TRADES WILL PERMIT.
4. UNLESS INSTRUCTED OTHERWISE, THE CONTRACTOR SHALL SECURE AND PAY FOR ALL PERMITS, LICENSES, FEES, PLAN REVIEWS AND INSPECTIONS IN CONNECTION WITH THIS WORK.
5. BEFORE PROCURING ANY MATERIALS OR STARTING ANY WORK, THE CONTRACTOR SHALL EXAMINE THE COMPLETE SET OF DRAWINGS FOR ALL TRADES, AND VERIFY ALL DIMENSIONS, SPACE REQUIREMENTS AND POINTS OF CONNECTION. MAKE ALL ADJUSTMENTS NECESSARY TO AVOID CONFLICT WITH THE BUILDING OR STRUCTURE AND THE WORK OF OTHER TRADES, AS REQUIRED TO ACHIEVE THE ARRANGEMENT INDICATED ON THE DRAWINGS. BEFORE PROCURING ANY MATERIALS OR STARTING ANY WORK, CONTRACTOR SHALL VISIT THE SITE AND BECOME FAMILIAR WITH SITE CONDITIONS.
6. PROVIDE ELECTRICAL SUBMITTALS AND SHOP DRAWINGS FOR ALL SYSTEMS FOR REVIEW AND APPROVAL PRIOR TO PROCUREMENT. ALL SUBMITTALS MUST BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR AS CONFORMING TO CONTRACT REQUIREMENTS. SUBMITTALS THAT ARE NOT APPROVED AND SIGNED BY THE GC WILL BE RETURNED WITHOUT REVIEW. SUBMITTAL SHALL INCLUDE SWITCHBOARDS, PANELBOARDS, TRANSFORMERS, CONDUITS, CONDUCTORS, FITTINGS, CONNECTORS, PULLBOXES, DEVICES, LIGHTING FIXTURES, POLES AND POLE BASES, LIGHTING CONTROL DEVICES AND EQUIPMENT AND ENCLOSURES. SUBSTITUTIONS TO SPECIFIED EQUIPMENT SHALL BE CONFIRMED PRIOR TO SUBMITTAL AND CONTRACTOR IS RESPONSIBLE FOR ALL ASSOCIATED COSTS INCLUDING POSSIBLE IMPACT ON SCHEDULE.
7. IF ANY EQUIPMENT SUBMITTED BY THE CONTRACTOR IS DIFFERENT FROM THAT SPECIFIED, OR REQUIRES CHANGES IN MATERIAL OR LABOR FROM THAT REQUIRED IN THE CONTRACT DOCUMENTS AFFECTING THIS AND/OR OTHER TRADES, SUCH CHANGES SHALL BE SUBMITTED AS SHOP DRAWINGS. SUBMITTAL SHALL INDICATE CREDIT DUE TO OWNER, IF ANY, BECAUSE OF THE CHANGES. CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR PAYMENT OF ALL CHARGES RESULTING FROM ADDITIONS OR CHANGES IN THE WORK OF OTHER TRADES NECESSARY TO ACCOMMODATE THE REQUESTED MODIFICATION. ALL CHANGES SHALL BE SHOWN ON RECORD AND AS-BUILT DRAWINGS.
8. ARRANGE ALL EQUIPMENT SUBSTANTIALLY AS SHOWN ON THE DRAWINGS. MAKE DEVIATIONS WHERE NECESSARY TO AVOID INTERFERENCE. REWORK EXISTING WIRING, EQUIPMENT AND DEVICES WHERE REQUIRED. RED-MARK AND MAINTAIN A SET OF DRAWINGS ON SITE TO RECORD CONSTRUCTION PROGRESS AND DEVIATIONS FROM DRAWINGS. PROVIDE PDF SCAN OF CLEARLY MARKED CONSTRUCTION-RECORD DRAWINGS AS PART OF CLOSEOUT DOCUMENTATION.
9. FEEDERS AND BRANCH CIRCUIT CONDUITS SHALL BE IDENTIFIED AT LOCATION ABOVE THE PANELBOARD AND AT EACH JUNCTION BOX, DEVICE, RECEPTACLE AND LIGHTING FIXTURE. ADDITIONALLY, WIRE IDENTIFICATION AND CIRCUIT NUMBER SHALL BE MADE AT EACH CONNECTION AND JUNCTION BOX LOCATION. CONDUIT, BOX AND WIRE LABELS SHALL BE SELF-ADHESIVE AS BRADY, 3M OR APPROVED EQUAL. EQUIPMENT LABELS SHALL BE 2-PLY UV STABILIZED ACRYLIC MATERIAL GLOSSY SURFACE CORE WITH 3/16" 1/2" OR 1" LETTERS AS SHOWN ON APPROVED SUBMITTALS. COMPLY WITH ANSI A13.1, ANSI Z535.4, NFPA 70 AND NFPA 70E.
10. MATERIALS AND EQUIPMENT SHALL BE NEW CURRENT MODELS AND BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.
11. CONDUITS INSTALLED EXPOSED TO DAMAGE UP TO 8-FEET ABOVE FINISHED GRADE OR FLOOR SHALL BE RIGID GALVANIZED STEEL. CONDUIT ELBOWS AND THEIR RISERS INSTALLED IN CONCRETE SHALL BE RIGID GALVANIZED STEEL WITH 2 LAYERS OF 10MIL PVC TAPE. CONDUIT BELOW GRADE SHALL BE PVC SCHEDULE 40. OTHER CONDUITS WHERE PERMITTED SHALL BE ELECTRICAL METALLIC TUBING WITH COMPRESSION FITTINGS AND 2-HOLE CLAMPS. FLEXIBLE CONDUITS SHALL BE FLEXIBLE METALLIC TUBING WHEN INSTALLED INDOORS IN PROTECTED LOCATIONS OR SHALL BE SEAL-TITE OR APPROVED EQUAL. MINIMUM CONDUIT SIZES ARE 1/2" ABOVE GRADE AND 1" BELOW GRADE. CONDUITS SHALL BE INSTALLED IN TRENCHES NOT LESS THAN 24" BELOW TOP OF GRADE PER NEC TABLE 300.5.
12. CONDUIT SLEEVES SHALL BE GRAY PVC MINIMUM SCHEDULE 40, COORDINATED WITH OTHER TRADES AND INSTALLED PER CIVIL DRAWINGS. DO NOT USE WHITE PVC FOR ELECTRICAL SLEEVES. PROVIDE ADDITIONAL UNDERGROUND PULLBOXES WHERE REQUIRED DUE TO SLEEVE ELEVATIONS.
13. CONDUCTORS SHALL BE SOFT DRAWN ANNEALED COPPER WIRE WITH THIN INSULATION EXCEPT WHEN EXPOSED TO HIGH AMBIENT TEMPERATURES SUCH AS OUTDOORS SHALL BE XHHW. WIRING FOR VFD LOADS SUCH AS IRRIGATION BOOSTER PUMPS SHALL BE XHHW OR OTHER VFD RATED INSULATION. UNDERGROUND SPLICING OF WIRING IS TO BE AVOIDED WHERE POSSIBLE. UNDERGROUND CONNECTORS SHALL BE WATERTIGHT USING 3M OR APPROVED EQUAL. FEEDER CONDUCTORS MAY BE ALUMINUM WHEN APPROVED IN SUBMITTALS AND/OR SHOWN ON DRAWINGS.
14. UNDERGROUND PULL BOXES SHALL BE OF SIZE AND TYPE REQUIRED BY AHJ INCLUDING CONCRETE FILLED. OTHERWISE LID SHALL BE TAMPERPROOF TYPE, AND MINIMUM BOX SIZE IS TO BE AS NOTED, HOWEVER INCREASE DIMENSIONS IF REQUIRED DUE TO INSTALLED CONFIGURATION AND NEC 314.28. PULLBOXES TO BE TRAFFIC RATED IF REQUIRED, AND AS MANUFACTURED BY CHRISTY, JENSEN, OLDCASTLE OR APPROVED EQUAL. PROVIDE ADDITIONAL PULLBOXES WHERE ROADWAY AND OTHER OBSTACLE 6" SLEEVING IS PROVIDED FOR ELECTRICAL USE, BUT ALIGNMENT DUE TO EXACT SLEEVE LOCATION AND/OR DEPTH. LOCATE UNDERGROUND PULLBOXES A MINIMUM OF 5'-0" FROM PEDESTRIAN PATHWAYS AND DRIVEWAYS, UNLESS NOTED OR DIRECTED OTHERWISE.
15. NOT USED: METERED AND UNMETERED POWER PEDESTALS SHALL BE PER AHJ REQUIREMENTS AND SHALL BE AS MANUFACTURED BY TESCO CONTROLS OR APPROVED EQUAL. ALL BRANCH CIRCUIT SPACES ARE TO BE PREPARED FOR USE WITHOUT DEADFRONT OR OTHER MODIFICATION, PROVIDE BLANKS FOR UNUSED SPACES.
16. LIGHTING FIXTURES SHALL BE AS NOTED ON DRAWINGS AND LIGHTING VENDOR WHO DOES NOT KNOW EXACT DETAILS UNTIL THEIR FINAL MANUFACTURER AND CONTROLS COORDINATION. FIXTURE SELECTION AND PLACEMENT IS OFTEN BASED ON PHOTOMETRICS NOT SHOWN ON DRAWINGS. SUBSTITUTIONS SHALL BE REQUESTED IN ADVANCE OF BEING SUBMITTED. CONTRACTOR IS RESPONSIBLE FOR ENGAGING LIGHTING VENDOR TO ENSURE THAT A LIGHTING FIXTURE PACKAGE(S) INCLUDES ALL NECESSARY OPTIONS, CONTROLS AND PARTS. LIGHTING ENERGY COMPLIANCE FREQUENTLY HAS PUBLIC WORKS EXEMPTIONS THAT RESULT IN LIGHTING ENERGY DOCUMENTATION ON DRAWINGS NOT BEING REQUIRED BY THE AHJ. THIS DOES NOT PRECLUDE REQUIREMENTS FOR EXAMPLE ASTRONOMIC TIMECLOCKS AND PHOTOCELLS.
17. PROVIDE ALL ENVIRONMENTAL CLEANUP AND DISPOSAL PERFORMED AS A PART OF THIS CONTRACT IN ACCORDANCE WITH ALL APPLICABLE RULES, REGULATIONS, LAWS, AND STATUTES OF ALL AGENCIES HAVING JURISDICTION.
18. SUBMIT FOR APPROVAL CLOSE OUT DOCUMENTS TO INCLUDE CONSTRUCTION-RECORD RED-MARKED DRAWINGS, TEST & INSPECTION RESULTS, SHOP DRAWINGS, PRODUCT DATA, OPERATION AND MAINTENANCE MANUALS, GUARANTEES, WARRANTIES AND CERTIFICATES. PLUS, AS APPLICABLE INCLUDE CONSTRUCTION PROGRESS PHOTOS, RFIs, CORRESPONDENCE AND MEETING MINUTES.
19. THESE DRAWINGS ARE SUBJECT TO REVIEW AND APPROVAL BY THE AUTHORITIES HAVING JURISDICTION.
20. AHJ REQUIRED NOTE: ALL LINE-VOLTAGE ELECTRICAL WORK REQUIRES A BUILDING PERMIT ASSOCIATED WITH IT, TO BE INCLUDED WITHIN THIS SCOPE OF WORK.



NOTES:

- 1. MINIMUM BURIAL DEPTH SHALL BE 24" OF COVER AND NOT LESS THAN NEC TABLE 300-5.
2. PROVIDE ADDITIONAL MARKER TAPE FOR DUCTBANKS GREATER THAN 24" WIDE.
3. MAINTAIN 1.5" SEPARATION BETWEEN UNDERGROUND POWER CONDUITS FOR CONDUIT POWER CONDUCTOR COOLING & FOR EARTH COMPACTION.
4. MAINTAIN 12" SEPARATION BETWEEN PARALLEL (NOT CROSSING) POWER AND COMMUNICATIONS CONDUITS TO REDUCE EMP INTERFERENCE PER EIA IIA STANDARDS.
5. MAINTAIN 12" SEPARATION BETWEEN PARALLEL (NOT CROSSING) POWER AND OTHER UTILITIES. FOR FUTURE ACCESS TO UTILITIES.
6. BACKFILL & BEDDING TO BE TO 95% COMPACTION

2 UNDERGROUND CONDUIT DETAIL NO SCALE



1 PULL BOX NO SCALE

NOTE: PULLBOXES IN TRAFFIC AREAS MUST BE TRAFFIC RATED

SITE LIGHTING SCOPE OF WORK

- 1. NEW PARKING LOT LIGHTING POLES & LUMINAIRES. ALL SITE POLE MOUNTED LIGHTING TO BE POWERED AND CONTROLLED FROM GROCERY OUTLET BUILDING. CONDUIT, BOXES AND WIRING FROM BUILDING TO LIGHT POLES IS PART OF THIS PERMIT.
2. COORDINATION OF NEW GROCERY OUTLET BUILDING MOUNTED AREA LIGHT FIXTURES, TO BE POWERED AND CONTROLLED FROM GROCERY OUTLET BUILDING. SEE BUILDING CONSTRUCTION PERMIT FOR ADDITIONAL INFORMATION INCLUDING PANELBOARD CIRCUIT NUMBERS AND LOADS.
3. COORDINATION OF NEW SHOPS BUILDING MOUNTED AREA LIGHT FIXTURES, TO BE POWERED AND CONTROLLED FROM SHOPS BUILDING. SEE BUILDING CONSTRUCTION PERMIT FOR ADDITIONAL INFORMATION INCLUDING PANELBOARD CIRCUIT NUMBERS AND LOADS.
4. WORK ON AND INSIDE BUILDINGS IS COVERED UNDER SEPARATE PERMITS. SEE RESPECTIVE PERMIT DRAWINGS FOR LIGHTING POWER FEEDS. SEE SHEET E4 OVERALL SITE LIGHTING (PARKING LOT POLES & LUMINAIRES AND BUILDING MOUNTED FIXTURES) FOR LIGHTING ENERGY COMPLIANCE AND REQUIREMENTS.

ELECTRICAL SHEET INDEX

Table with 2 columns: Sheet ID and Description. E0: SITE LIGHTING COVER SHEET; E1: SITE LIGHTING PLAN; E2: SITE PHOTOMETRIC PLAN; E3.1: GROCERY OUTLET LIGHTING FIXTURES; E3.2: SHOPS LIGHTING FIXTURES; E3.3: CEC REQUIRED LIGHTING CONTROLS; E4: CEC LIGHTING ENERGY COMPLIANCE

Table of abbreviations with columns for symbol, description, and alternate symbol. Includes entries for AMPERE, AMP FUSE RATING, AMPERE INTERRUPTING CAPACITY, ALUMINUM, AMMETER, AMERICAN WIRE GAUGE, BUILDING, CONDUIT, DEGREE CELSIUS, CABINET, CIRCUIT BREAKER, CIRCUIT, CENTER LINE, CONTROL, CONDUIT ONLY, COMMUNICATION, CONTINUATION, CURRENT TRANSFORMER, COPPER, DEDICATED OUTLET, DIAMETER, DISCONNECT, DOWN, DISTRIBUTION PANELBOARD, DRAWING, EACH, ELECTRICAL CLOSET, ELEVATION, ELECTRICAL, EMERGENCY, EQUAL, EQUIPMENT, EX (E) EXISTING, EXTERIOR, DEGREE FAHRENHEIT, FUSE, FIRE ALARM, FEEDER, FLOOR, FULL LOAD AMPS, PANEL, FEET OR FOOT, FULL VOLTAGE NON-REVERSING, GND GROUND, GROUND FAULT INTERRUPTING, HAND HOLE, HORSEPOWER, HIGH VOLTAGE, HERTZ, IRRIGATION CONTROLLER, INSIDE DIAMETER, ISOLATED GROUND, JUNCTION BOX, THOUSAND CIRCULAR MILS, KILOVOLT, KILOVOLT AMPERE, KILOWATT, KILOWATT HOUR, KILOWATT HOUR METER, LIGHTING CONTROL PANEL, LIGHTING, LOCKED ROTOR AMPS, MAXIMUM, MAIN CIRCUIT BREAKER, THOUSAND CIRCULAR MILS, MECHANICAL, MANHOLE, MINIMUM, MOUNTED, MOUNTING, NEUTRAL, NORMALLY CLOSED, NON-FUSED, NOT IN CONTRACT, NORMALLY OPEN, ON CENTER, OUTSIDE DIAMETER, POLE, PULL BOX, PHASE, PANEL, POWER, RECEPTACLE, REQUIRED, RATED LOAD AMPS, ROOM, SEPARATE CIRCUIT, SECTION, SOLID NEUTRAL, SCOPE OF WORK, SERVICE PEDESTAL, SPECIFICATION, SWITCHBOARD, SWITCHGEAR, SYMMETRICAL, SYSTEMS, TO BE CONFIRMED, TEMPERATURE, TYPICAL, UNFUSED, UNLESS NOTED OTHERWISE, VOLT AMPERE, VOLT OR VOLTAGE, VARIABLE FREQUENCY DRIVE, VOLTMETER, VAPORPROOF, WATT, WATER COOLER, WATER FLOW SWITCH, WATT HOUR METER, WEATHERPROOF, WATERTIGHT, EXPLOSION PROOF, MOUNTING HEIGHT TO CENTER OF DEVICE FROM FINISHED FLOOR OR GRADE, UNLESS OTHERWISE NOTED

ABBREVIATIONS

Table with 4 columns: NO., DESCRIPTION, APPD. ENGR., DATE, APPD. E.U., DATE. Includes a REVISIONS section with columns for NO., DESCRIPTION, and DATE.

Table with 2 columns: SCALE and VERT. 1" = N/A

BENCH MARK CITY B.M. 125 ELEV=126.60 (NAVD 88) 3 1/2" BRASS DISK STAMPED 2018 PLS 8278, LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD. APPROX. 300 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD AT THE TOP OF THE CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.

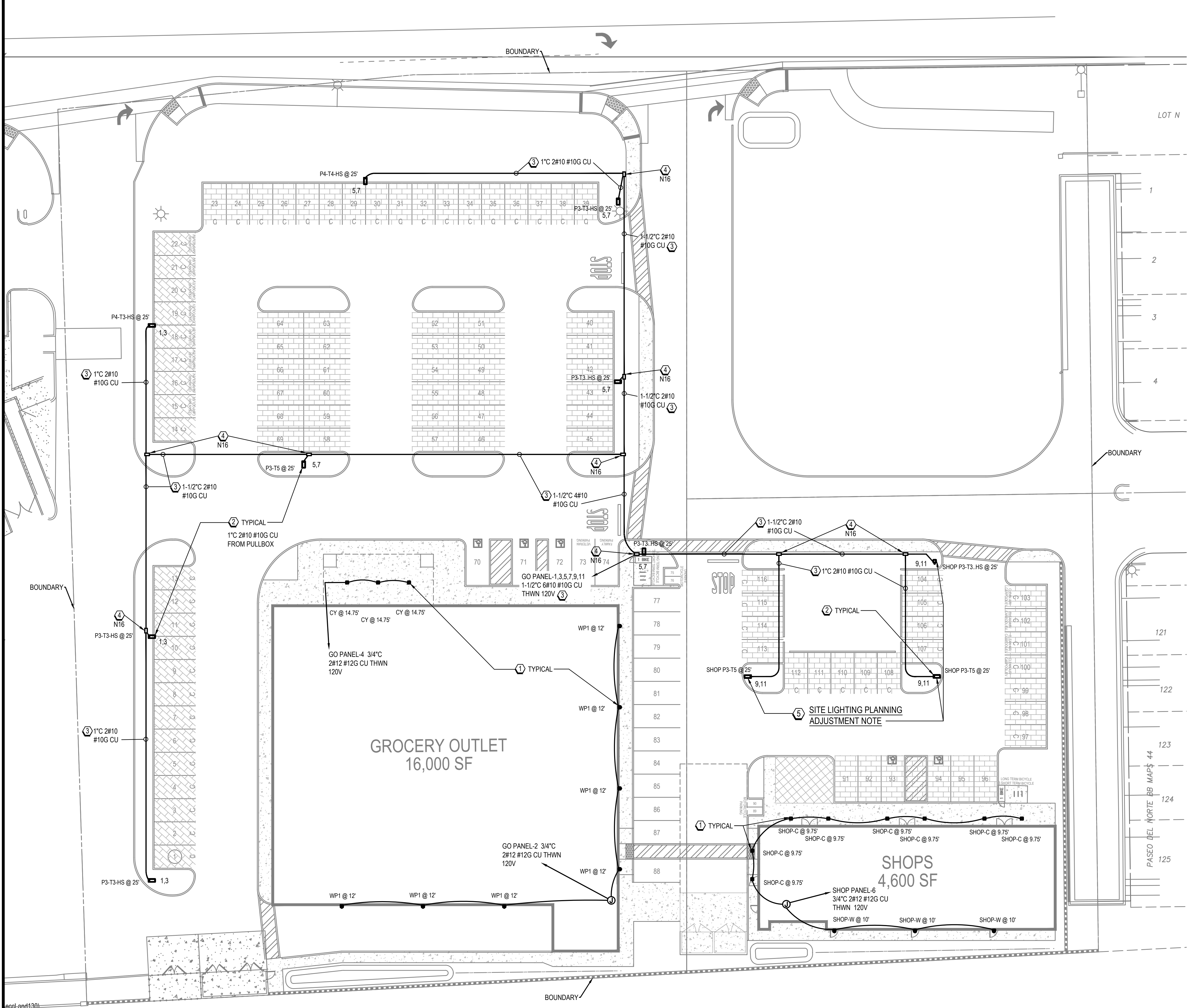
Table with 2 columns: COMPUTED, DESIGNED, DRAWN, PROJ. ENGR. Values: -, JDT, RC, JDT

CES ENGINEERING, INC. 916.905.4477 www.conwayengineering.com 13420 Mesa Drive Grass Valley California 95949 USA

ON-SITE IMPROVEMENT PLANS FOR GROCERY OUTLET SITE LIGHTING COVER SHEET 1751 PLEASANT GROVE BOULEVARD ROSEVILLE, CALIFORNIA



Table with 2 columns: DATE, SHEET, OF. Values: MAR 23, 2023, E0, 7



V-DROP SCHED. PANEL
 PANEL PROVIDED UNDER SEPARATE PERMIT

Voltage: 120 208 1 Phase
 Location: BUILDING NA Wire
 Main Breaker: NA
 Feeder Size: NA
 Mounting: NA
 AIC Rating: NA
 Lugs: NA
 Entry: NA
 Bus: NA

DESCRIPTION	OKT	BKR	P	LTS	REC	MISC	A-VA	B-VA	EST CKT LENGTH	WIRE GAUGE	% VOLT DROP	AMPS	
LIGHTING POLES GO WEST	1	20	2	3			245	245	700	#10	1.46%	2.0	
LIGHTING POLES GO NORTH	5	20	2	5			395	395	550	#10	1.84%	3.3	
LIGHTING POLES GO EAST	9	20	2	3			225	225	450	#10	0.86%	1.9	
WALL PACKS GO EAST & SOUTH	2	20	1	7			245		275	#12	1.77%	2.0	
CANOPY GO NORTH	4	20	1	3				81	200	#12	0.45%	0.7	
WALL PACKS & CANOPY SHOPS	6	20	1	11			315		200	#12	1.67%	2.6	
	10											0.0	
	12											0.0	
Subtotal:							560	81					
Total Connected VA:							2,371						
Total Connected AMPS:							11						
25% of Long Continuous Load:							377						
25% of Largest Motor:							0						
Less 50% >10kVA of 180VA Receptacles:							0						
Total VA per phase:							1425	946					
Total AMPS per phase:							12	8					
Total Calculated VA:							2,748						
Total Calculated AMPS:							13						

CONDUCTOR LENGTHS ARE BASED ON MAXIMUM PRACTICAL LENGTH, ACTUAL LENGTHS MAY BE LESS.

SITE LIGHTING GENERAL NOTES:

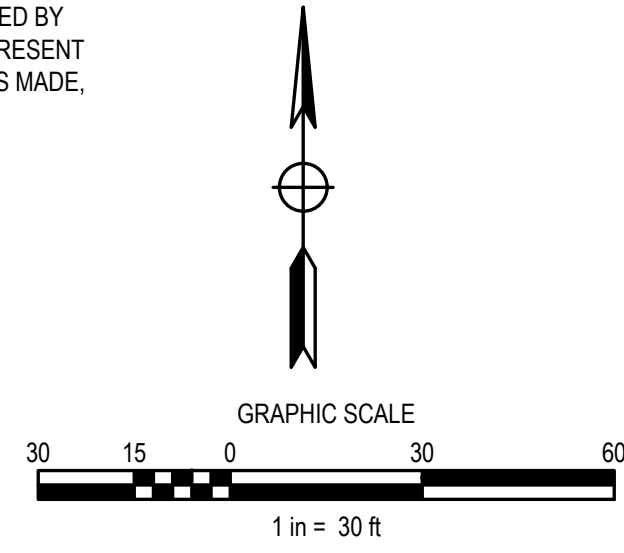
- A. FOR GROCERY OUTLET BUILDING EQUIPMENT IS SUBJECT TO REVIEW AND APPROVAL BY GROCERY OUTLET INTERIOR AND EXTERIOR LIGHTING DESIGNER: CITY ELECTRIC SUPPLY: DANI WEHAN 661-212-3209 DANI.WEHAN@CITYELECTRICSUPPLY.COM
- B. FOR SHOPS BUILDING, BUILDING EQUIPMENT IS SUBJECT TO REVIEW AND APPROVAL BY SHOPS INTERIOR AND EXTERIOR LIGHTING DESIGNER: SACRAMENTO ENGINEERING CONSULTANTS PHILLIP BEJARANO PHILB@SACENG.COM CELL: (916) 267-5754

SITE LIGHTING REFERENCE NOTES:

- 1. NEW BUILDING MOUNTED LIGHTING FIXTURE. SEE SHEETS E2 & E3-SERIES FOR DETAILS
- 2. NEW PARKING LOT POLE LUMINAIRE AND 25FT POLE WITH CONCRETE BASE. SEE SHEETS E2 & E3-SERIES FOR DETAILS.
- 3. UNDERGROUND CONDUIT AND WIRE. GRAY PVC SCHED. 40. WITH WIRING INDICATED. SEE SCHEDULE THIS SHEET FOR VOLTAGE DROP. SEE DETAIL 2E0.
- 4. UNDERGROUND PULLBOX WITH TAMPER RESISTANT PENTABOLT FASTENERS CHRISTY OR EQUIVALENT BY JENSEN OR OLDCASTLE. SIZE AS NOTED ON PLANS OR AMENDED HEREIN. SEE DETAIL 1E0:
 B1017: CALTRANS/NDOT #3-12 10"x17" N9
 B1324: CALTRANS/NDOT #5 12"x22" N16
 B1730: CALTRANS/NDOT #6 17"x30" N30
 LABEL LID "ELECTRIC" OR AS REQUIRED BY AHJ. SEE DETAIL E10.
 -IF ANGLE PULL DIMENSIONS EXCEED NEC 314.28 PROVIDE LARGER PULLBOX.
 -DASHED LINES TO PULLBOXES REPRESENT UNDERGROUND PVC SCHEDULE 40 CONDUIT - MINIMUM 1" EXCEPT UNLESS NOTED OTHERWISE.

SITE LIGHTING PLANNING ADJUSTMENT NOTE:

- 5. THE HEIGHT OF THE (3) LIGHT POLES NORTH OF 'SHOPS' BUILDING, REFERENCED BY THIS NOTE, AND SHOWN AS 25FT, SHALL BE REDUCED TO 15FT IN ORDER TO PRESENT A LOWER PROFILE TO THE EASTERN RESIDENCES. WHEN THIS ADJUSTMENT IS MADE, LUMINAIRE WATTAGES SHALL ALSO BE REDUCED ACCORDINGLY.



REVISIONS

NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE

SCALE:

HORIZ. 1" = 30'

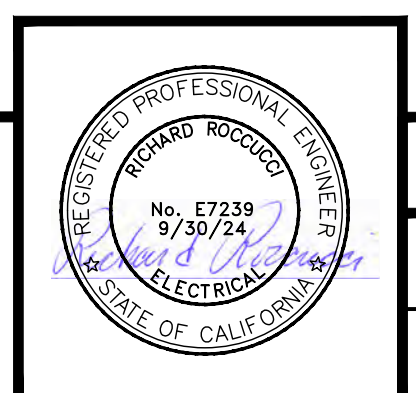
VERT. 1" = N/A

BENCH MARK CITY B.M. 125
 ELEV=126.60 (NAVD 88)
 3 1/2" BRASS DISK STAMPED 2018 PLS 8278, LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD. APPROX. 300 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD AT THE TOP OF THE CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.

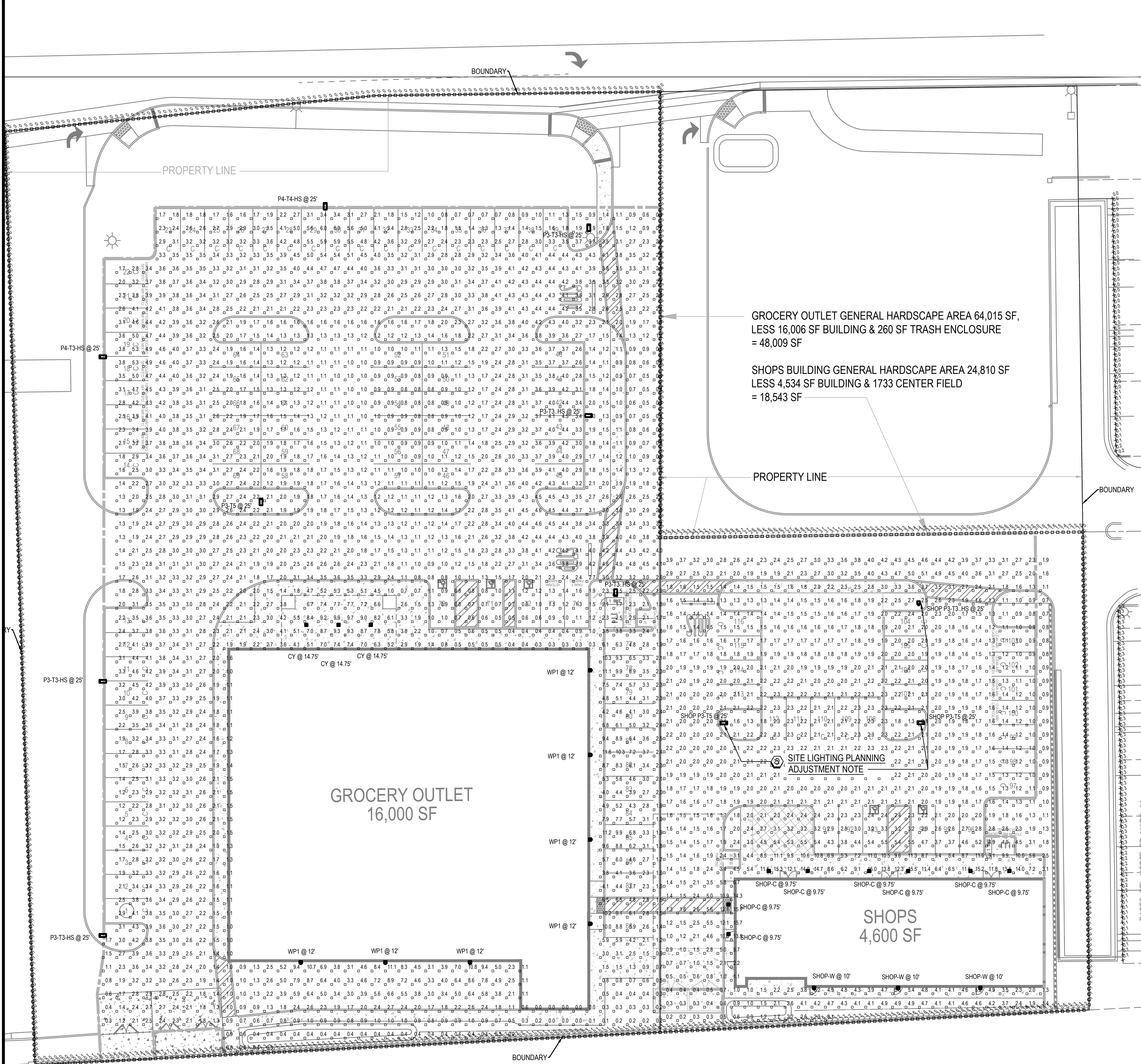
COMPUTED -
 DESIGNED JDT
 DRAWN RC
 PROJ. ENGR. JDT

CES ENGINEERING, INC.
 916.905.4477 www.conwayengineering.com
 13420 Mesa Drive Grass Valley California 95949 USA

ON-SITE IMPROVEMENT PLANS FOR
GROCERY OUTLET
 SITE LIGHTING PLAN
 1751 PLEASANT GROVE BOULEVARD
 ROSEVILLE, CALIFORNIA



DATE MAR 23, 2023
 SHEET E1
 OF 7



Symbol	Label	Image	QTY	Manufacturer	Catalog	Description	Number Lamps	Lamp Output	LLF	Input Power	Polar Plot
□	CY		3	ELITE	OVR-101-LED-4000L-DIM10-MVOLT-40K-WH		1	3687	0.9	26.5173	Max: 1151cd
□	P3-T3-.HS		2	Lithonia Lighting	RSX2 LED P3 40K R3 HS	RSX LED Area Luminaire Size 2 P3 Lumen Package 4000K CCT Type R3 Distribution with HS shield. House shield is required, to reduce B1-U0-G4 to B1-U0-G3.	1	15256	0.85	149.98	Max: 16215cd
□	P3-T3-HS		3	Lithonia Lighting	RSX2 LED P3 40K R3 HS	RSX LED Area Luminaire Size 2 P3 Lumen Package 4000K CCT Type R3 Distribution with HS shield. B1-U0-G3.	1	15256	0.85	149.98	Max: 16215cd
□	P3-T5		1	Lithonia Lighting	RSX2 LED P3 40K R5	RSX Area Fixture Size 2 P3 Lumen Package 4000K CCT Type R5 Distribution. B5-U0-G3.	1	22316	0.85	149.98	Max: 16215cd
□	P4-T3-HS		1	Lithonia Lighting	RSX2 LED P4 40K R3 HS	RSX LED Area Luminaire Size 2 P4 Lumen Package 4000K CCT Type R3 Distribution with HS shield. B1-U0-G3.	1	17548	0.85	189.54	Max: 8526cd
□	P4-T4-HS		1	Lithonia Lighting	RSX2 LED P4 40K R4 HS	RSX LED Area Luminaire Size 2 P4 Lumen Package 4000K CCT Type R4 Distribution with HS shield. B2-U0-G3.	1	16647	0.85	189.54	Max: 18650cd
□	WP1		7	Lithonia Lighting	WIDGE2 LED P4 40K 80CRI VW	WIDGE2 LED WITH P4 - PERFORMANCE PACKAGE. 4000K. 80CRI. VISUAL COMFORT WIDE OPTIC (B1-U0-G1, 90CRI version is B1-U0-G0)-6200L.	1	4526	0.9	34.96	Max: 14946cd
□	SHOP P3-T3-.HS		1	Lithonia Lighting	RSX2 LED P3 40K R3 HS	RSX LED Area Luminaire Size 2 P3 Lumen Package 4000K CCT Type R3 Distribution with HS shield. House shield is required, to reduce B1-U0-G4 to B1-U0-G3.	1	15256	0.85	149.98	Max: 3450cd
□	SHOP P3-T3-HS		0	Lithonia Lighting	RSX2 LED P3 40K R3	RSX Area Fixture Size 2 P3 Lumen Package 4000K CCT Type R3 Distribution. B1-U0-G3.	1	21736	0.85	149.98	Max: 16215cd
□	SHOP P3-T5		2	Lithonia Lighting	RSX2 LED P3 40K R5	RSX Area Fixture Size 2 P3 Lumen Package 4000K CCT Type R5 Distribution. B5-U0-G3.	1	22316	0.85	149.98	Max: 15670cd
□	SHOP P3-T5		8	Lithonia Lighting	CNY LED P0 40K MVOLT	CNY LED Canopy P0=3.500m B1-U3-G1 (<6200L).	108	3669	0.9	26.35	Max: 8526cd
□	SHOP-C		1	Lithonia Lighting	WIDGE2 LED P3 40K 70CRI T3M	WIDGE2 LED WITH P3 - PERFORMANCE PACKAGE. 4000K. 70CRI. TYPE 3 MEDIUM OPTIC. B1-U0-G1 (<6200L).	1	3629	0.9	32.1375	Max: 1258cd
□	SHOP-W		3	Lithonia Lighting	WIDGE2 LED P3 40K 70CRI T3M	WIDGE2 LED WITH P3 - PERFORMANCE PACKAGE. 4000K. 70CRI. TYPE 3 MEDIUM OPTIC. B1-U0-G1 (<6200L).	1	3629	0.9	32.1375	Max: 2661cd

GROCERY OUTLET GENERAL HARDSCAPE AREA 64,015 SF,
LESS 16,006 SF BUILDING & 260 SF TRASH ENCLOSURE
= 48,009 SF

SHOPS BUILDING GENERAL HARDSCAPE AREA 24,810 SF
LESS 4,534 SF BUILDING & 1733 CENTER FIELD
= 18,543 SF

GROCERY OUTLET
16,000 SF

SHOPS
4,600 SF

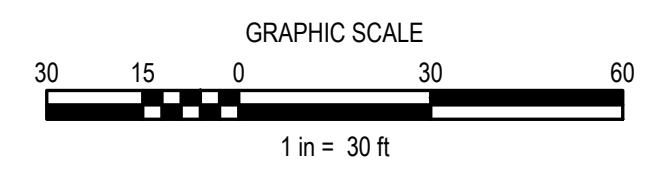
PHOTOMETRIC NOTES:

- NUMBERS ON 10FT X 10FT GRID ARE CALCULATED HORIZONTAL FOOTCANDLE VALUES BASED ON MANUFACTURER PROVIDED IES FILES AND ESTIMATED LIGHT LOSS FACTORS SCHEDULED ON THIS SHEET.
- FOOTCANDLE VALUES INCLUDE LIGHT CONTRIBUTION ONLY FROM POLE AND BUILDING MOUNTED LIGHTS SHOWN ON THESE DRAWINGS INSTALLED AS PART OF THIS PERMIT.

SITE LIGHTING PLANNING ADJUSTMENT NOTE:

- THE HEIGHT OF THE (3) LIGHT POLES NORTH OF 'SHOPS' BUILDING, REFERENCED BY THIS NOTE, AND SHOWN AS 25FT, SHALL BE REDUCED TO 15FT IN ORDER TO PRESENT A LOWER PROFILE TO THE EASTERN RESIDENCES. WHEN THIS ADJUSTMENT IS MADE, LUMINAIRE WATTAGES SHALL ALSO BE REDUCED ACCORDINGLY.

Statistics						
Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
Frontage LOTS 121-125	+	0.3 fc	0.3 fc	0.1 fc	3.0:1	3.0:1
Hardscape GO	□	2.7 fc	11.6 fc	0.6 fc	N/A	N/A
Hardscape SHOPS	□	2.7 fc	15.7 fc	0.2 fc	78.5:1	135.5:1
Property Line GO East (Commercial roadway)	◇	1.1 fc	3.5 fc	0.0 fc	N/A	N/A
Property Line GO North (Public roadway)	◇	0.6 fc	0.6 fc	0.0 fc	N/A	N/A
Property Line GO South (Greenbelt)	◇	0.4 fc	1.7 fc	0.0 fc	N/A	N/A
Property Line GO West (CVS roadway)	◇	0.1 fc	0.2 fc	0.0 fc	N/A	N/A
Property Line SHOPS East (Residential roadway)	◇	0.5 fc	1.0 fc	0.0 fc	N/A	N/A
Property Line SHOPS North (Roadway CL)	◇	2.8 fc	3.5 fc	1.0 fc	3.5:1	2.8:1
Property Line SHOPS South (Greenbelt)	◇	2.1 fc	3.7 fc	0.1 fc	37.0:1	21.0:1
Frontage LOTS 1-4	+	0.0 fc	0.2 fc	0.0 fc	N/A	N/A



NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. EU.	DATE

SCALE:
HORIZ. 1" = 30'
VERT. 1" = N/A

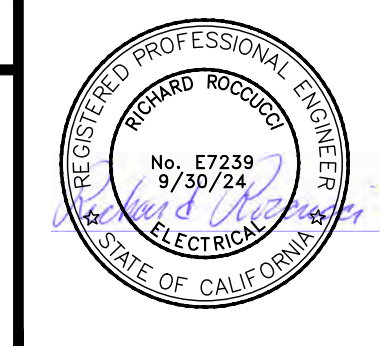
BENCH MARK
CITY B.M. 125
ELEV=126.60 (NAVD 88)

3 1/2" BRASS DISK STAMPED 2018 PLS 8276, LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD. APPROX. 300 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD AT THE TOP OF THE CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.

COMPUTED	DESIGNED	DRAWN	PROJ. ENGR.
-	JDT	RC	JDT

CES ENGINEERING, INC.
916.905.4477 www.conwayengineering.com
13420 Mesa Drive Grass Valley California 95949 USA

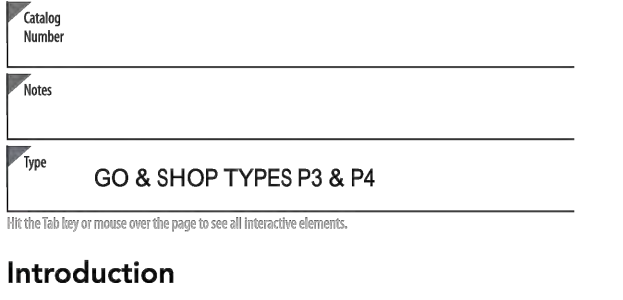
ON-SITE IMPROVEMENT PLANS FOR
GROCERY OUTLET
SITE PHOTOMETRIC PLAN
1751 PLEASANT GROVE BOULEVARD
ROSEVILLE, CALIFORNIA



DATE	MAR 23, 2023
SHEET	E2
OF	7



RSX2 LED Area Luminaire



Specifications

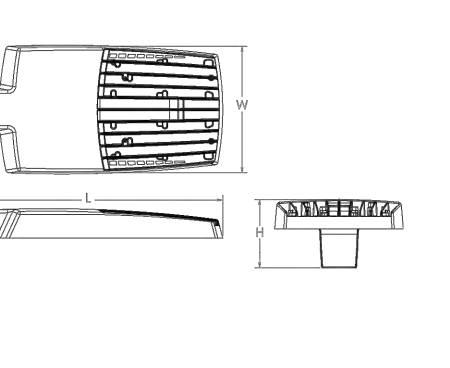
EPA (HxW): 0.69 ft² (0.06 m²)

Length: 29.3" (74.4 cm) (SPA mount)

Width: 13.4" (34.0 cm)

Height: 3.0" (7.6 cm) Main Body
7.2" (18.3 cm) Arm

Weight: 30.0 lbs (13.6 kg) (SPA mount)



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 RSX2 delivers 11,000 to 31,000 lumens allowing it to replace 250W to 1000W 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 splitter and other mounting configurations are available.

Ordering Information

RSX2 LED Series	Performance Package	Color Temperature	Distribution	Voltage	Mounting
RSX2 LED	P1	30K-3000K	R2 Type 2 Wide	MVOLT (120V-277V)	SPA Square pole mounting (3.0" x 3.0" pole for 1.4-9' x 2.5" x 3.4-9')
	P2	40K-4000K	R3 Type 3 Short	MVOLT (24V-480V)	RPA Round pole mounting (1.7" min. dia. NIBD pole for 2.3-4.4' x 3.4-9' x 1.7" min. dia. NIBD pole for 1 at 9' x 2 at 18' x 3 at 12')
	P3	50K-5000K	R4 Type 4 Wide	MVOLT (277V-480V)	MA Mast arm adaptor (fits 2-3/8" OD horizontal arm)
	P4		R5 Type 5 Short	MVOLT (277V-480V)	IS Adjustable splitter (fits 2-3/8" OD pole)
	P5		R6 Type 6 Short	120V 277V	WBA Wall bracket
	P6		R7 Type 7 Short	120V 347V	WBASC Wall bracket with surface conduit box
	AFR90		AFR Automotive Front Row Right faced	AAFP Adjustable 60 arm square pole mounting	AAWB Adjustable 60 arm wall bracket
	AFR50		AFR Automotive Front Row Left faced	AAWSC Adjustable 60 arm wall bracket and surface conduit box	

Options	Finish
IS House-side shield	DDBK Dark Bronze
PE Photocell, button type	DLBK Black
PER7 Seven-wire back box (not for use with 120V)	DLAD Natural Aluminum
PF Single face (20, 27, 34)'	DNWD White
DF Double face (20, 24, 48)'	DNDB Textured Dark Bronze
SFDKX 200V surge pack (100V standard)	DDBK Dark Bronze
FAD Field adjustable output	DNWD Natural Aluminum
DMG 0-10V dimming (extend back of housing for external control) (order separately)	DNWGD Textured White
DS Dual switching	

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (378) • www.lithonia.com
© 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

Ordering Information

Accessories

RSX2 House side shield (includes 2x6x6)

RSX2 Round pole adapter plate (specify finish)

RSX2 External glare shield (specify finish)

RSX2 Mast arm adaptor (specify finish)

RSX2 Adjustable splitter (specify finish)

RSX2 Wall bracket (specify finish)

RSX2 Wall bracket with surface conduit box (specify finish)

RSX2 Mast arm adaptor (fits 2-3/8" OD horizontal arm)

RSX2 Adjustable splitter (fits 2-3/8" OD pole)

RSX2 Wall bracket

RSX2 Wall bracket with surface conduit box

RSX2 Mast arm adaptor (fits 2-3/8" OD horizontal arm)

RSX2 Adjustable splitter (fits 2-3/8" OD pole)

RSX2 Wall bracket

RSX2 Wall bracket with surface conduit box

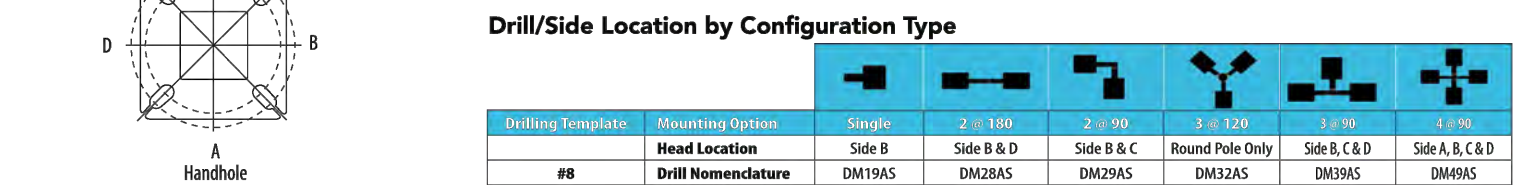


Pole/Mounting Information

Accessories including bulbs, 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.

Round Tenon Mount - Pole Top Splitters

Mounting Type	1-1/2"	2-1/8"	2-1/4"	2-1/2"	2-3/4"	3-1/8"	3-1/2"	3-3/4"	4-1/8"
SPA - Square Pole Adapter	0.8	1.2	1.27	1.8	1.61	2.39	1.37	2.56	2.74
RPA - Round Pole Adapter	0.8	1.2	1.27	1.8	1.61	2.39	1.37	2.56	2.74
MA - Mast Arm Adapter	0.8	1.2	1.27	1.8	1.61	2.39	1.37	2.56	2.74



RSX2 - Luminaire EPA

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

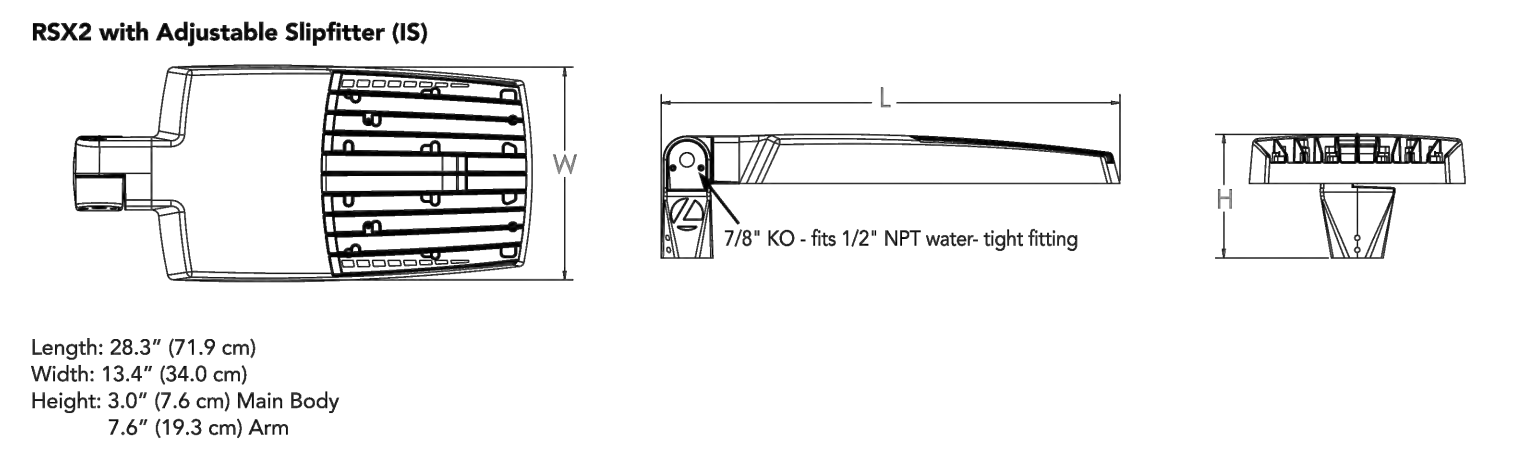
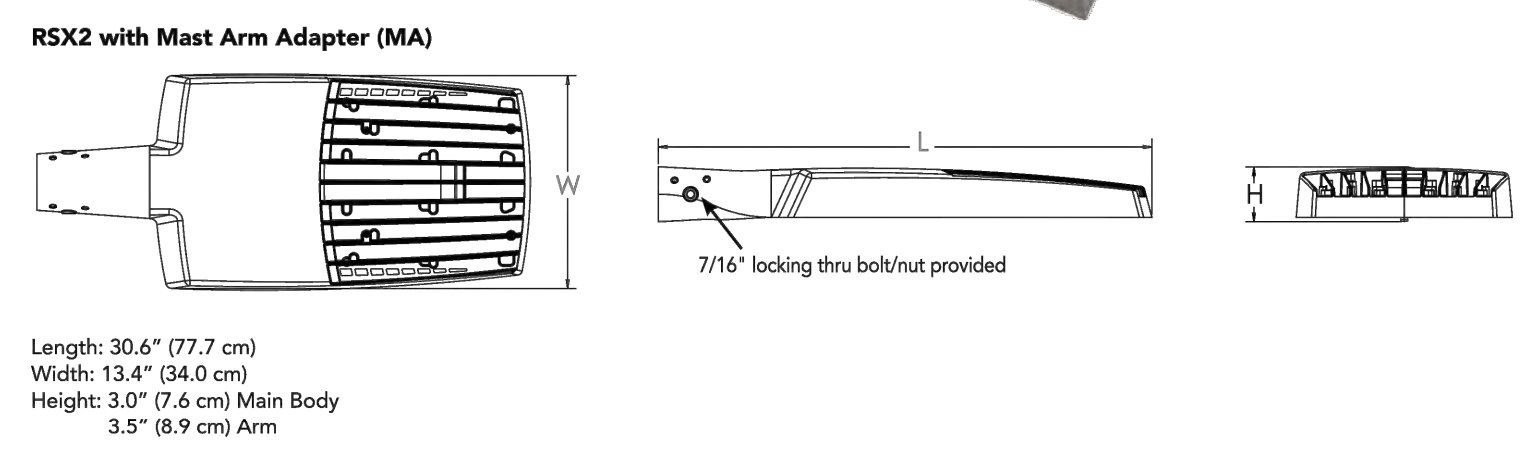
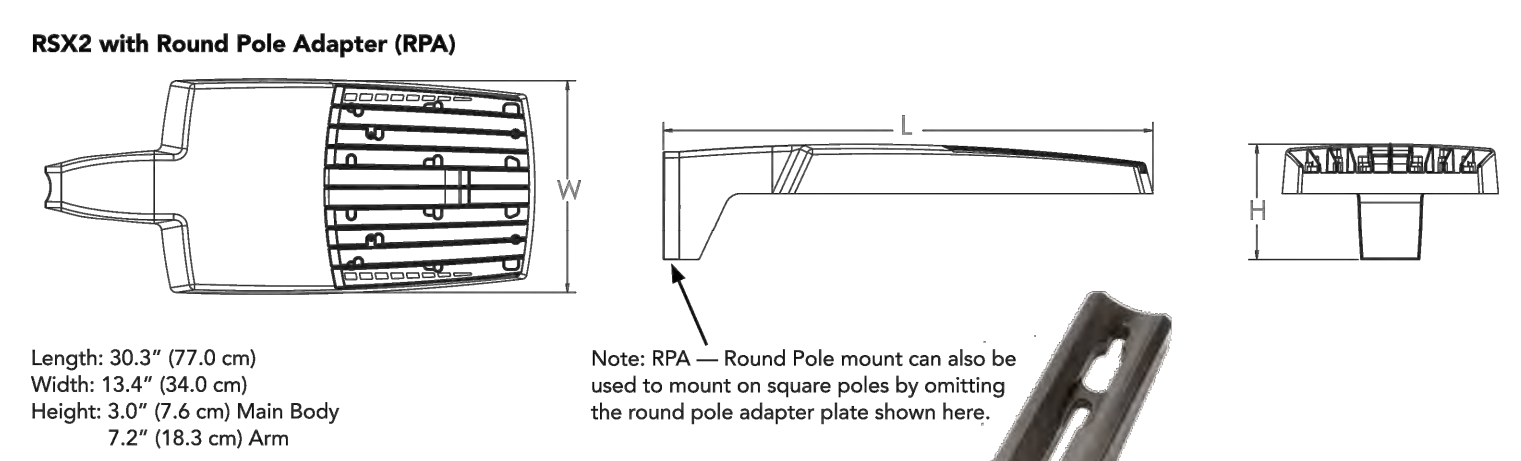
Mounting Type	1-1/2"	2-1/8"	2-1/4"	2-1/2"	2-3/4"	3-1/8"	3-1/2"	3-3/4"	4-1/8"
SPA - Square Pole Adapter	0.8	1.2	1.27	1.8	1.61	2.39	1.37	2.56	2.74
RPA - Round Pole Adapter	0.8	1.2	1.27	1.8	1.61	2.39	1.37	2.56	2.74
MA - Mast Arm Adapter	0.8	1.2	1.27	1.8	1.61	2.39	1.37	2.56	2.74

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (378) • www.lithonia.com
© 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

Dimensions & Weights

Luminaire Weight by Mounting Type

Mounting Configuration	Light Luminaire Weight
SPA	30 lbs
RPA	32 lbs
MA	30 lbs
WBA	33 lbs
WBASC	36 lbs
IS	33 lbs
AAFP	33 lbs
AAWB	33 lbs
AAWSC	36 lbs
AAWSD	39 lbs



One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (378) • www.lithonia.com
© 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

OVR-101-LED LED Small Square Canopy Series

up to 60 Wattage / up to 8000 Lumens

Catalog Number: **OVR-101-LED**

Project Name: _____

Note: _____

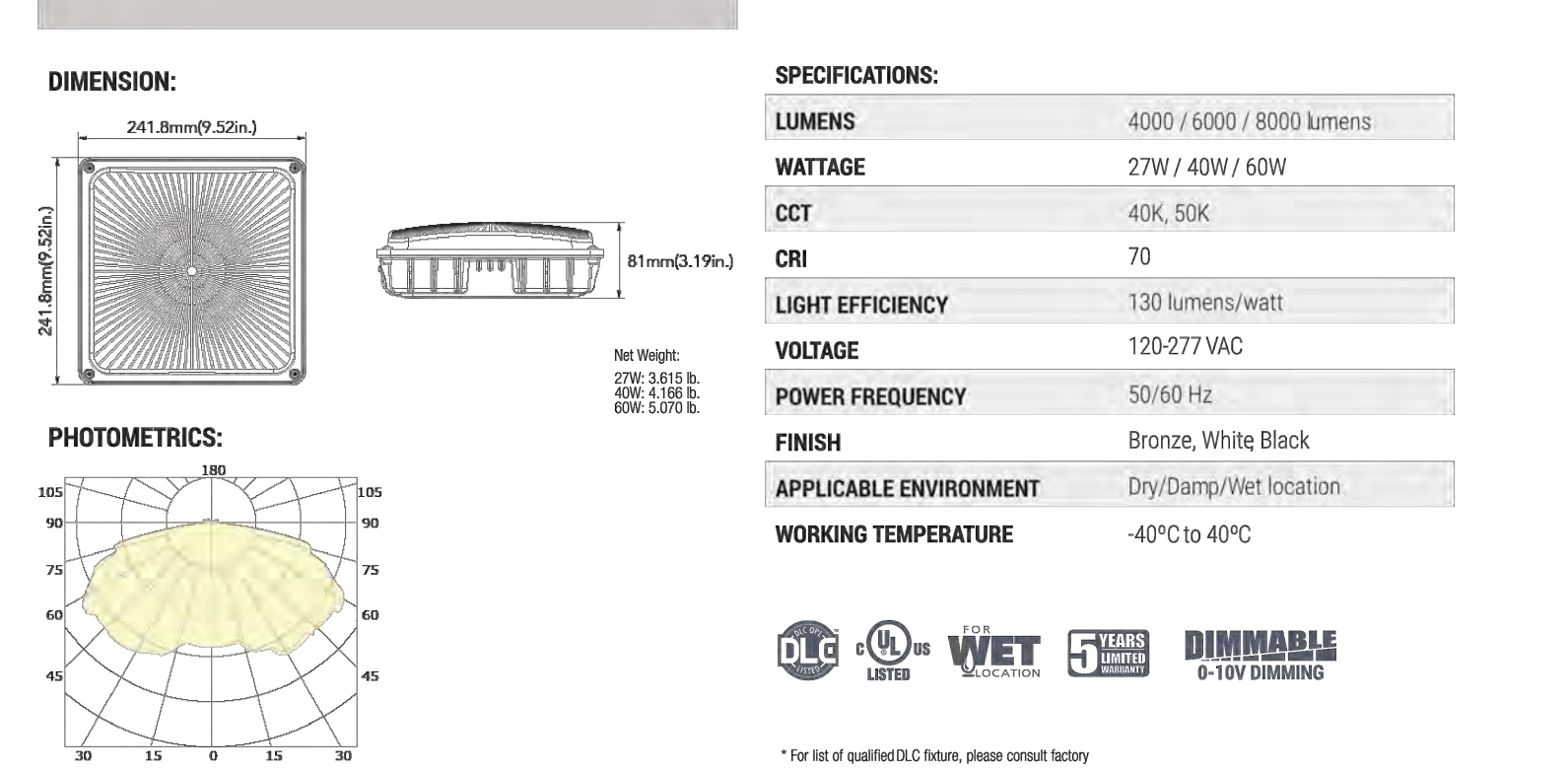
Type: **SHOP TYPE CY**

APPLICATIONS:

- The Oracle LED Canopy Light is designed to provide an aesthetically pleasing low-profile luminaire that produces a high light output while keeping energy and maintenance costs low. Ideal for parking garages, walkways, storage areas, underpasses, and stairwells.

FEATURES:

- Sealed die-casting profile for outdoor applications
- MVOLT (120-277V)
- Lumen output from 4000/8000Lm with efficacy up to 141lm/W
- Increase energy savings with optional built-in motion sensor
- Replacing 100W MH and 175W MH saving over 75% energy consumption
- Operating temperature is -40°C to 40°C (40°F to 104°F)
- UL/cUL wet location
- DLC premium qualified**



ORDERING GUIDE

Example: OVR-101-LED-6000L-DIM10-MVOLT-40K-0-EMG-LED-BZ

SERIES	PERFORMANCE	DIMMING	VOLTAGE	CCT	FINISH	EMERGENCY	OPTION
OVR-101-LED	6000L-7200 Lumens	DM10 0-10V Dimming	MVOLT 120-277V	40K-4000K	BZ - Bronze DLBK - Black DNWD - White DNWGD - White	0-EMG-LED	MS - Motion Sensor

One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (378) • www.lithonia.com
© 2011-2023 Acuity Brands Lighting, Inc. All rights reserved.

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 tolerance allowed by Lighting Facts. Contact factory for performance data on any configurations not shown here.

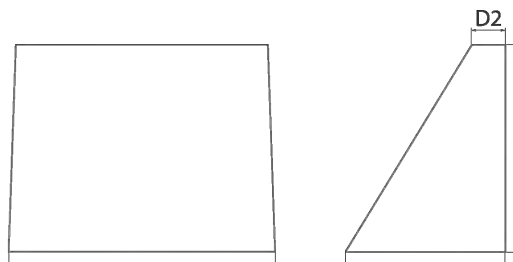
Performance Package	Series	Beam Type	120V (277V)	150V (347V)	180V (480V)	208V (480V)	240V (575V)	277V (600V)	300V (660V)	347V (760V)	480V (1050V)	
P1	71W	R2	10,940	11,109	11,031	11,153	11,031	11,153	11,031	11,153	11,031	11,153
		R3	10,025	10,141	10,092	10,141	10,092	10,141	10,092	10,141	10,092	10,141
		R4	10,271	10,387	10,288	10,387	10,288	10,387	10,288	10,387	10,288	10,387
		R5	10,136	10,252	10,136	10,252	10,136	10,252	10,136	10,252	10,136	10,252
		R6	9,779	9,895	9,779	9,895	9,779	9,895	9,779	9,895	9,779	9,895
		R7	10,271	10,387	10,271	10,387	10,271	10,387	10,271	10,387	10,271	10,387
	AFR90	R2	10,544	10,660	10,544	10,660	10,544	10,660	10,544	10,660	10,544	10,660
		R3	10,028	10,144	10,028	10,144	10,028	10,144	10,028	10,144	10,028	10,144
		R4	10,132	10,248	10,132	10,248	10,132	10,248	10,132	10,248	10,132	10,248
		R5	10,164	10,280	10,164	10,280	10,164	10,280	10,164	10,280	10,164	10,280
		R6	15,712	15,828	15,712	15,828	15,712	15,828	15,712	15,828	15,712	15,828
		R7	15,657	15,773	15,657	15,773	15,657	15,773	15,657	15,773	15,657	15,773
P2	111W	R2	16,075	16,191	16,075	16,191	16,075	16,191	16,075	16,191	16,075	16,191
		R3	15,304	15,420	15,304	15,420	15,304	15,420	15,304	15,420	15,304	15,420
		R4	15,862	15,978	15,862	15,978	15,862	15,978	15,862	15,978	15,862	15,978
		R5	16,052	16,168	16,052	16,168	16,052	16,168	16,052	16,168	16,052	16,168
		R6	15,691	15,807	15,691	15,807	15,691	15,807	15,691	15,807	15,691	15,807
		R7	15,691	15,807	15,691	15,807	15,691	15,807	15,691	15,807	15,691	15,807
	AFR90	R2	15,967	16,083	15,967	16,083	15,967	16,083	15,967	16,083	15,967	16,083
		R3	15,851	15,967	15,851	15,967	15,851	15,967	15,851	15,967	15,851	15,967
		R4	15,785	15,901	15,785	15,901	15,785	15,901	15,785	15,901	15,785	15,901
		R5	20,312	20,428	20,312	20,428	20,312	20,428	20,312	20,428	20,312	20,428
		R6	20,094	20,210	20,094	20,210	20,094	20,210	20,094	20,210	20,094	20,210
		R7	19,339	19,455	19,339	19,455	19,339	19,455	19,339	19,455	19,339	19,455
P3	141W	R2	20,513	20,629	20,513	20,629	20,513	20,629	20,513	20,629	20,513	20,629
		R3	19,339	19,455	19,339	19,455	19,339	19,455	19,339	19,455	19,339	19,455
		R4	20,094	20,210	20,094	20,210	20,094	20,210	20,094	20,210	20,094	20,210
		R5	20,852	20,968	20,852	20,968	20,852	20,968	20,852	20,968	20,852	20,968
		R6	19,628	19,744	19,628	19,744	19,628	19,744	19,628	19,744	19,628	19,744
		R7	19,628	19,744	19,628	19,744	19,628	19,744	19,628	19,744	19,628	19,744
	AFR90	R2	20,011	20,127	20,011	20,127	20,011	20,127	20,011	20,127	20,011	20,127
		R3	22,859	22,975	22,859	22,975	22,859	22,975	22,859	22,975	22,859	22,975
		R4	22,596	22,712	22,596	22,712	22,596	22,712	22,596	22,712	22,596	22,712
		R5	23,163	23,279	23,163	23,279	23,163	23,279	23,163	23,279	23,163	23,279
		R6	23,044	23,160	23,044	23,160	23,044	23,160	23,044	23,160	23,044	23,160
		R7	22,243	22,359	22,243	22,359	22,243	22,359	22,243	22,359	22,243	22,359
P4	181W	R2	23,383	23,499	23,383	23,499	23,383	23,499	23,383	23,499	23,383	23,499
		R3	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919
		R4	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919
		R5	23,163	23,279	23,163	23,279	23,163	23,279	23,163	23,279	23,163	23,279
		R6	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919
		R7	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919	22,803	22,919
	AFR90	R2	23,073	23,189	23,073	23,189	23,073	23,189	23,073	23,189	23,073	23,189
		R3	23,128	23,244	23,128	23,244	23,128	23,244	23,128	23,244	23,128	23,244
		R4	26,141	26,257	26,141	26,257	26,141	26,257	26,141	26,257	26,141	26,257
		R5	26,049	26,165	26,049	26,165	26,049	26,165	26,049	26,165	26,049	26,165
		R6	26,390	26,506	26,390	26,506	26,390	26,506	26,390	26,506	26,390	26,506
		R7	25,462	25,578	25,462	25,578	25,462	25,578	25,462	25,578	25,462	25,578
P5	210W	R2	26,244</									



WDGE2 LED Architectural Wall Sconce Precision Refractive Optic



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



Accessories
WDGE2 LED P1
WDGE2 LED P2
WDGE2 LED P3
WDGE2 LED P4

Introduction
The WDG2 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 rectangular 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 WDG2 family provides additional energy savings and code compliance. WDG2 with industry leading precision refractive optics provides great uniform distribution and optical control. When combined with multiple integrated emergency battery backup options, including an 18W cold temperature option, the WDG2 becomes the ideal wall-mounted lighting solution for pedestrian scale applications in any environment.

WDGE LED Family Overview

Luminaire	Optics	Standard DM, °C	Cold DM, -20°C	Series	P0	P1	P2	P3	P4	P5	P6
WDGE2 LED	Visual Comfort	4W	—	—	750	1,200	2,000	—	—	—	—
WDGE2 LED	Visual Comfort	10W	18W	Standard / nLight	—	1,200	2,000	3,000	4,500	6,000	—
WDGE2 LED	Precision Refractive	10W	18W	Standard / nLight	700	1,200	2,000	3,200	4,200	—	—
WDGE2 LED	Precision Refractive	15W	18W	Standard / nLight	—	7,500	8,500	10,000	12,000	—	—
WDGE2 LED	Precision Refractive	—	—	Standard / nLight	—	12,000	16,000	18,000	20,000	22,000	25,000

Ordering Information

Series	Package	Color Temperature	CH	Distribution	Voltage	Mounting	Shipped Included	Shipped Separately
WDGE2 LED	P0 ¹	27K 2700K	70CRI ²	T15 Type I Short	MVOLT ³	SRM	Surface mounting bracket	AWS 3.8inch Architectural wall spacer
	P1 ¹	30K 3000K	80CRI	T2M Type II Medium	—	ICW	Indirect Canopy/Caniling	PBBW Surface-mounted back box (top, left, right, central entry). Use when there is no junction box available.
	P2 ¹	40K 4000K	LW Limited Wavelength	T3M Type III Medium	—	—	—	—
	P3 ¹	50K 5000K	—	T4M Type IV Medium	—	—	—	—
	P4 ¹	AMB Amber	—	TFM Forward Throw Medium	—	—	—	—

Options	Finish
E10WH Emergency battery backup. Certified in CA Title 20 MAEDBS (10W, 5V min)	0000 Dark bronze
E20WC Emergency battery backup. Certified in CA Title 20 MAEDBS (10W, 5V min)	0010 Black
PE ² PhotoCell, Button Type	0020 Natural aluminum
DMC ⁴ 0-10V dimming wires pulled outside fixture (for use with an external control, ordered separately)	0030 White
BCE Bottom conduit entry for back box (PBBW). Total of 4 entry points.	0040 Sandstone
BAA Buy America/ Act Compliant	0050 Textured dark bronze
	0060 Textured black
	0070 Textured initial aluminum
	0080 Textured white
	0090 Textured sandstone

LITHONIA LIGHTING COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com WDG2 LED Rev. 11/21/22 © 2019-2022 Acuity Brands Lighting, Inc. All rights reserved.

Accessories

Part Number	Description
WDGE2 LED P1	WDGE2 LED P1 (30K)
WDGE2 LED P2	WDGE2 LED P2 (40K)
WDGE2 LED P3	WDGE2 LED P3 (50K)
WDGE2 LED P4	WDGE2 LED P4 (AMB)

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 Watt	Part Type	27K (2700K, 1V/0.5)	30K (3000K, 1V/0.5)	40K (4000K, 1V/0.5)	50K (5000K, 1V/0.5)	AMB (0000K, 0V/0.5)	Linked Luminaire Part Number	
P0	7W	T15	656	92	0	0	0	0	712
		T2M	662	96	0	0	0	0	741
		T3M	662	96	0	0	0	0	741
		T4M	648	94	0	0	0	0	726
P1	11W	TFM	652	95	0	0	0	730	
		T15	1,165	99	0	0	0	1,230	
		T2M	1,150	103	0	0	0	1,249	
		T3M	1,150	103	0	0	0	1,250	
P2	19W	T4M	1,126	101	0	0	0	1,223	
		TFM	1,123	101	0	0	0	1,239	
		T15	1,981	99	1	0	1	1,981	
		T2M	1,875	99	1	0	1	1,875	
P3	32W	T3M	1,876	99	1	0	1	1,876	
		T4M	1,830	97	1	0	1	1,830	
		TFM	1,847	97	1	0	1	1,847	
		T15	2,809	87	1	0	1	2,809	
P4	47W	T2M	3,804	91	1	0	1	3,799	
		T3M	3,825	91	1	0	1	3,825	
		T4M	3,862	89	1	0	1	3,857	
		TFM	3,880	90	1	0	1	3,878	

Performance Package	System Watt	Part Type	27K (2700K, 1V/0.5)	30K (3000K, 1V/0.5)	40K (4000K, 1V/0.5)	50K (5000K, 1V/0.5)
P0	7W	T15	737	107	0	0
		T2M	721	105	0	0
P1	11W	T2M	1,280	115	0	0
		T3M	1,253	112	0	0
P2	19W	T3M	2,087	110	1	0
		T4M	2,042	108	1	0
P3	32W	T3M	3,254	101	1	0
		T4M	3,185	99	1	0
P4	47W	T3M	4,319	93	1	0
		T4M	4,227	91	1	0

LITHONIA LIGHTING COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-SERV (3738) • www.lithonia.com WDG2 LED Rev. 11/21/22 © 2019-2022 Acuity Brands Lighting, Inc. All rights reserved.



CNY LED LED Canopy/Ceiling Luminaire



Specifications
CNY LED P0/P1/P2
Width: 12"
Height: 4.7"
Depth: 10"
Weight: 6.5lbs

Accessories
CNY LED P1
CNY LED P2
CNY LED P3
CNY LED P4

Introduction
The CNY LED canopy luminaires are energy efficient and budget friendly, perfect for replacing up to 250W metal halide luminaires while saving up to 80% energy costs. Quick mount mechanism significantly reduces the installation time. An LED array and translucent lens create uniform and visually comfortable illumination. CNY LED luminaires are DLC Premium listed and deliver quick payback!

Ordering Information

Series	Performance Package	Color Temperature ¹	Voltage	Finish
CNY LED	P0 3,500 lumens P1 4,500 lumens P2 6,000 lumens	40K 4000K ² 50K 5000K	MVOLT ³ 120-277V ¹	DOB Dark bronze WH White ¹

Accessories
CNY LED P1
CNY LED P2
CNY LED P3
CNY LED P4

FEATURES & SPECIFICATIONS
INTENDED USE
CNY LED luminaires are ideal, energy-efficient replacements for up to 250W MH canopy or ceiling luminaires. The CNY LED provides years of maintenance-free illumination for schools, malls, offices, parking areas, covered walkways and loading docks.
CONSTRUCTION
Cast aluminum, corrosion-resistant housing with polyester powder paint for lasting durability. Castings are sealed with a one-piece gasket. Rated for outdoor installations, -40°C minimum ambient. Frosted lens is designed for uniform light distribution.
ELECTRICAL
Includes an MVOLT (120-277V) electronic driver that is 0-10V, capable of continuous dimming and ensure system power factor >0.95 and THD <20%. LEDs maintain 70% of light output at 50,000 or more hours of service life (L70/50,000 hours). CNY is CR10.
INSTALLATION
Mounts to a recessed junction box or surface mount with three conduit entry points. Can be pendant mounted with NPT pendant stem provided by others. Quick mount mechanism significantly reduces installation time - no need to open the luminaire for installation.
LISTINGS
UL Listed to U.S. and Canadian safety standards for wet locations. Tested in accordance with IESNA LM-79 and LM-80 standards. Designates Consistent® 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.dlc.com to confirm which versions are qualified. Can be used to comply with California Title 24 Part 6 High Efficiency LED Light Source Requirements.
WARRANTY
Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.conwayengineering.com/support/learn-more-conditions
Notes: 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.

LITHONIA LIGHTING COMMERCIAL OUTDOOR One Lithonia Way • Conyers, Georgia 30012 • Phone: 1-800-705-7378 • www.lithonia.com CNY LED Rev. 03/07/22 © 2017-2022 Acuity Brands Lighting, Inc. All rights reserved.

Dwg. X:2020-0011-01 (GROCEERY OUTLET) (2019) ROSEVILLE (ENGINEERING) WORKING 2020011-C08-ST01.DWG | Sheet: 02-08-23 11:44am ROHEING

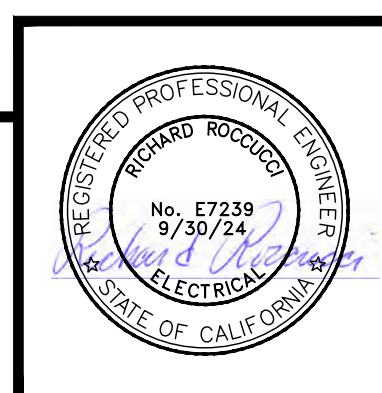
NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE

SCALE: BENCH MARK CITY B.M. 125
ELEV=126.60 (NAVD 88)
HORIZ. 1" = 30'
VERT. 1" = N/A

COMPUTED	DESIGNED	DRAWN	PROJ. ENGR.
-	JDT	RC	JDT

CES ENGINEERING, INC.
916.905.4477 www.conwayengineering.com
13420 Mesa Drive Grass Valley California 95949 USA

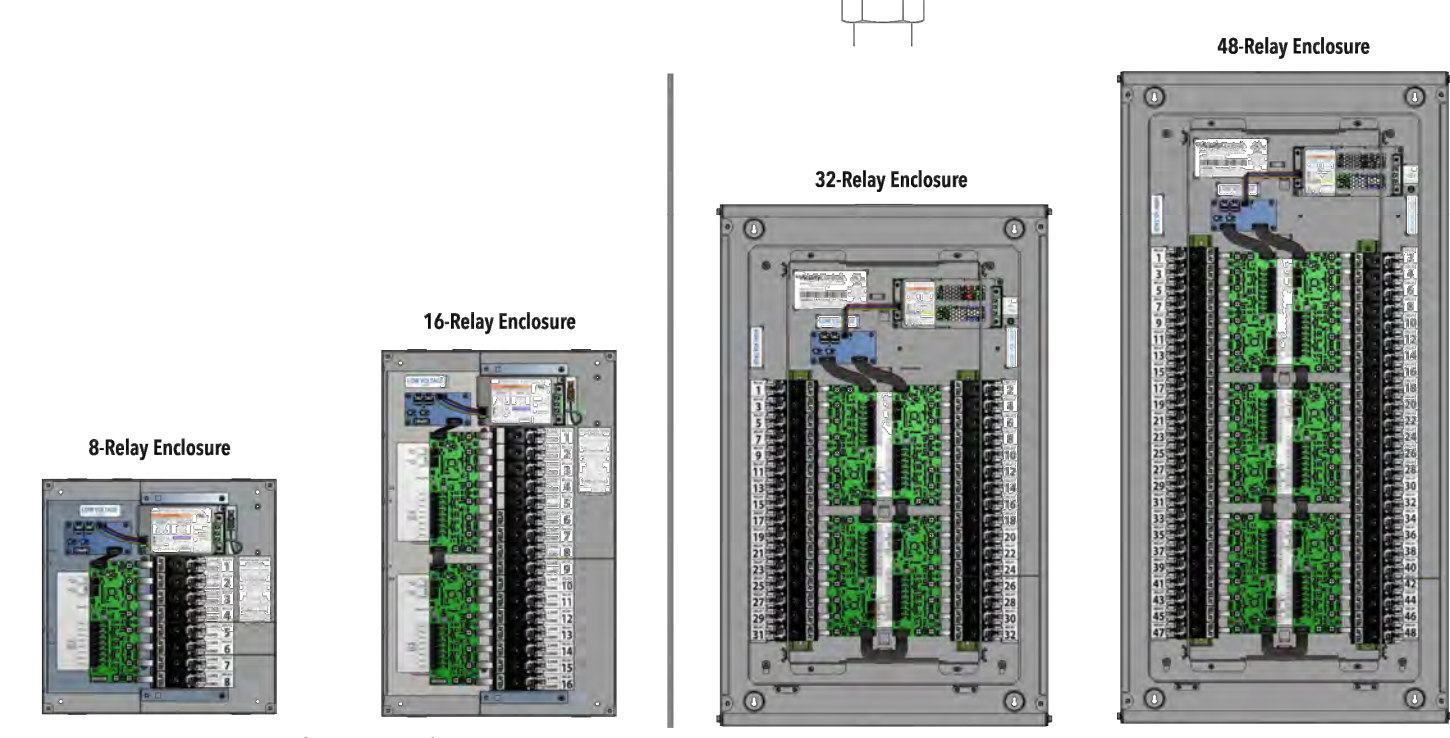
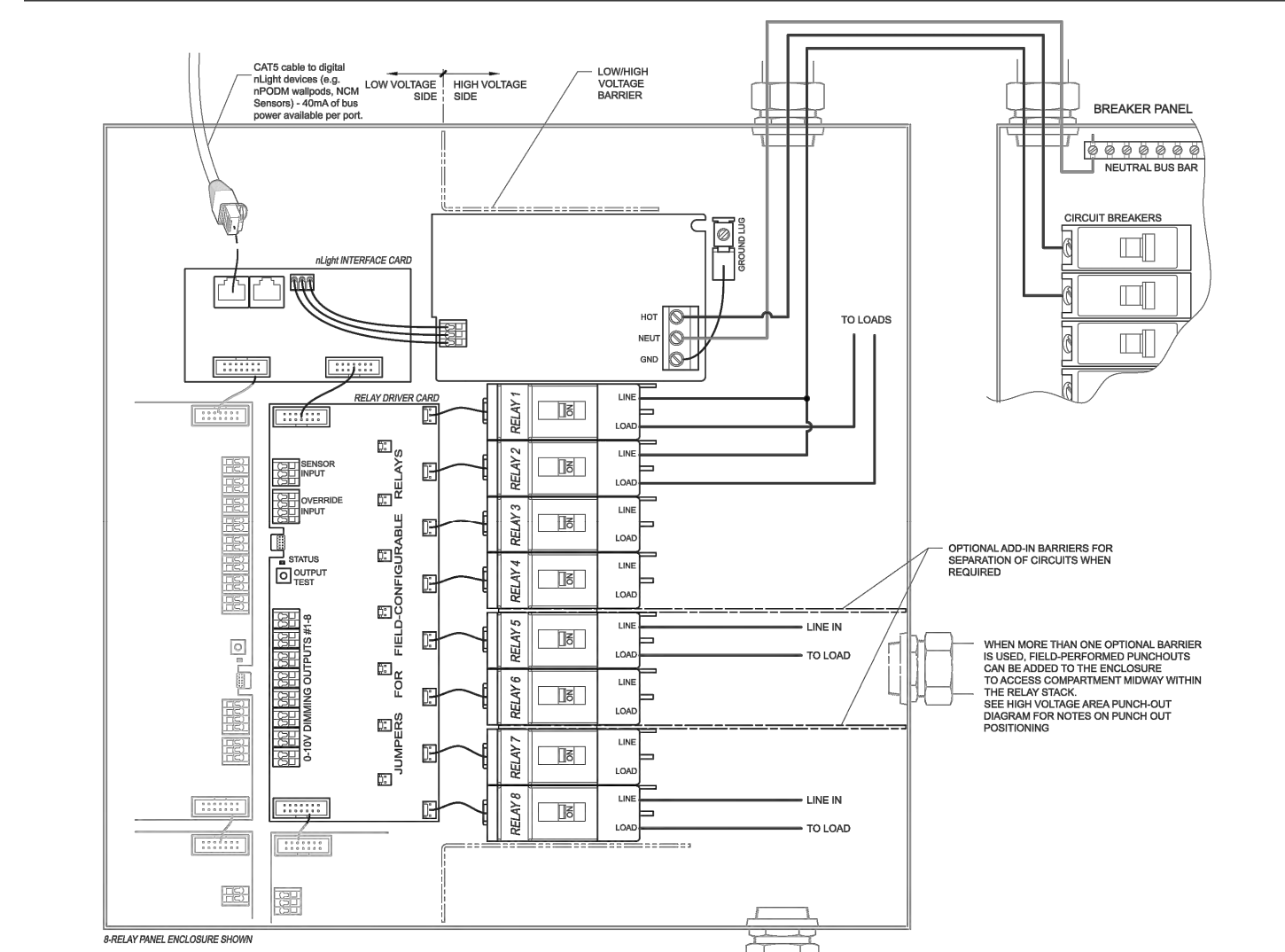
ON-SITE IMPROVEMENT PLANS FOR
GROCEERY OUTLET
SHOPS LIGHTING FIXTURES
1751 PLEASANT GROVE BOULEVARD
ROSEVILLE, CALIFORNIA



DATE	SHEET	OF
MAR 23, 2023	E3.2	7

GROCEERY OUTLET

WIRING - SINGLE-POLE



ARP
© 2016-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 08/17/22

SPECIFICATIONS

ENCLOSURE DIMENSIONS
Note: Enclosure is NEMA 1 rated

8-Relay Enclosure

- BACKBOX ONLY: 14.25"H x 14.25"W x 4.00"D
- SURFACE MOUNT SCREW COVER (standard offering): 14.41"H x 14.41"W x 4.05"D
- FLUSH MOUNT SCREW COVER: 15.65"H x 15.65"W x 4.05"D (IN-WALL DEPTH: 4.0")

16 Relay Enclosure

- BACKBOX ONLY: 22.25"H x 14.25"W x 4.00"D
- SURFACE MOUNT SCREW COVER (standard offering): 22.45"H x 14.45"W x 4.06"D
- FLUSH MOUNT SCREW COVER: 23.65"H x 15.65"W x 4.06"D (IN-WALL DEPTH: 4.0")

32 Relay Enclosure

- BACKBOX ONLY: 32.10"H x 20.13"W x 6.00"D
- SURFACE MOUNT HINGED DOOR w/ KEYLOCK: 32.10"H x 20.13"W x 6.68"D

48 Relay Enclosure

- BACKBOX ONLY: 40.10"H x 20.13"W x 6.00"D
- SURFACE MOUNT HINGED DOOR w/ KEYLOCK: 40.10"H x 20.13"W x 6.68"D

Relays

"FCR" Type Relays - Field Configurable for 2-Pole and 3-Pole Relays

- Magnetic/Standard Ballast:
 - 40A @ 120-347VAC (Single-pole)
 - 40A @ 480VAC (Multi-pole)
- Electronic Ballast:
 - 16A @ 120-347VAC
 - 20A @ 120-277VAC
- Tungsten:
 - 2HP @ 120VAC
 - 3HP @ 240-277VAC
- DC:
 - 20A @ 48VDC
- SCCR:
 - 65kA @ 277/480VAC with: Screw Cover (SC) option for 8 & 16 relay enclosure
 - Hinge Locking (HLK) option for 32 & 48 relay enclosure

"SPR" Type Relays

- Magnetic/Standard Ballast:
 - 20A @ 120-277VAC
- Electronic Ballast:
 - 16A @ 120-277VAC
- Tungsten:
 - 500W @ 250VAC
- Horsepower Ratings:
 - 2HP @ 120VAC
- DC:
 - 20A @ 48VDC
- SCCR:
 - 5kA @ 277VAC

nLight Addresses Per Panel

- (9) ARP04/08
- (8) Relays/Dimming Outputs
- (1) Programmable Input
- (18) ARP12/16
- (16) Relays/Dimming Outputs
- (2) Programmable Inputs
- (36) ARP24/32
- (32) Relays/Dimming Outputs
- (4) Programmable Inputs
- (54) ARP48
- (48) Relays/Dimming Outputs
- (6) Programmable Inputs

RELAYS (1 PER 8 RELAYS)

- (1) Programmable Input for contact closure or photosensor signal (see photosensor accessories above)
- (1) Override input (requires maintained signal)
- 24VDC/200mA auxiliary power available (per 8 relays)
- Connectors accept 16 to 24 AWG wire

OUTPUTS

- 0-10V Capable of Class 1 or Class 2 Wiring
- 100mA Sink Per Dimming Output

Note:

- Low trim default 1V, adjustable down to 0.7V
- High trim default 10V, 10V max
- Off mode: < 0.7V
- Connectors accept 16 to 24 AWG wire

POWER SUPPLY INPUTS

- 120-277VAC
- 347VAC Option
- 50/60 Hz
- Max 0.5 Amps for 8/16 relay enclosure
- Max 1.0 Amp for 32/48 relay enclosure

PROGRAMMING

- Via SensorView Software

ENVIRONMENT

- Ambient, 8 & 16 relay enclosure: 32-122F (0-50C)
- Ambient, 32 & 48 relay enclosure: 32-113F (0-45C)
- Relative Humidity: 90% non-condensing

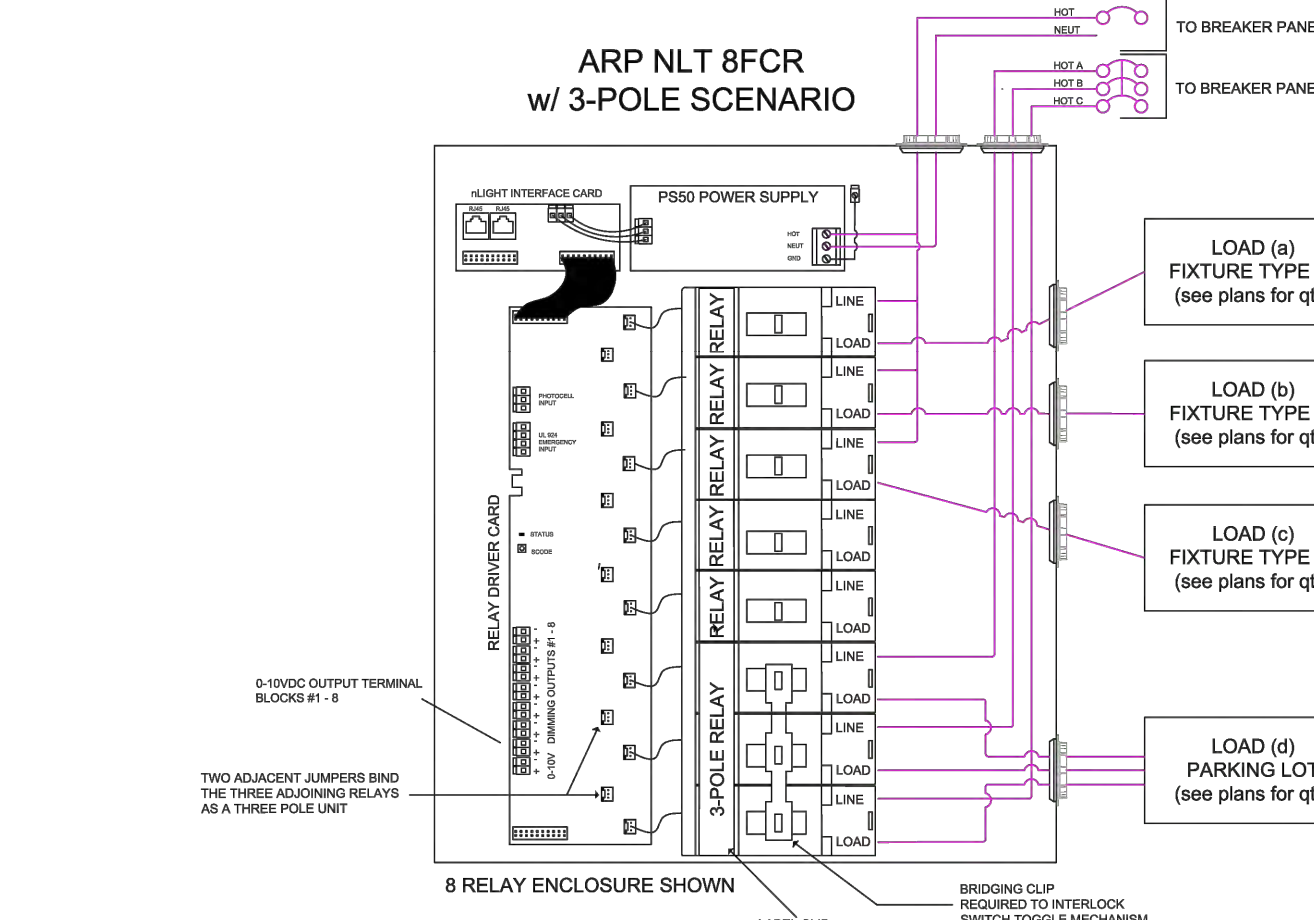
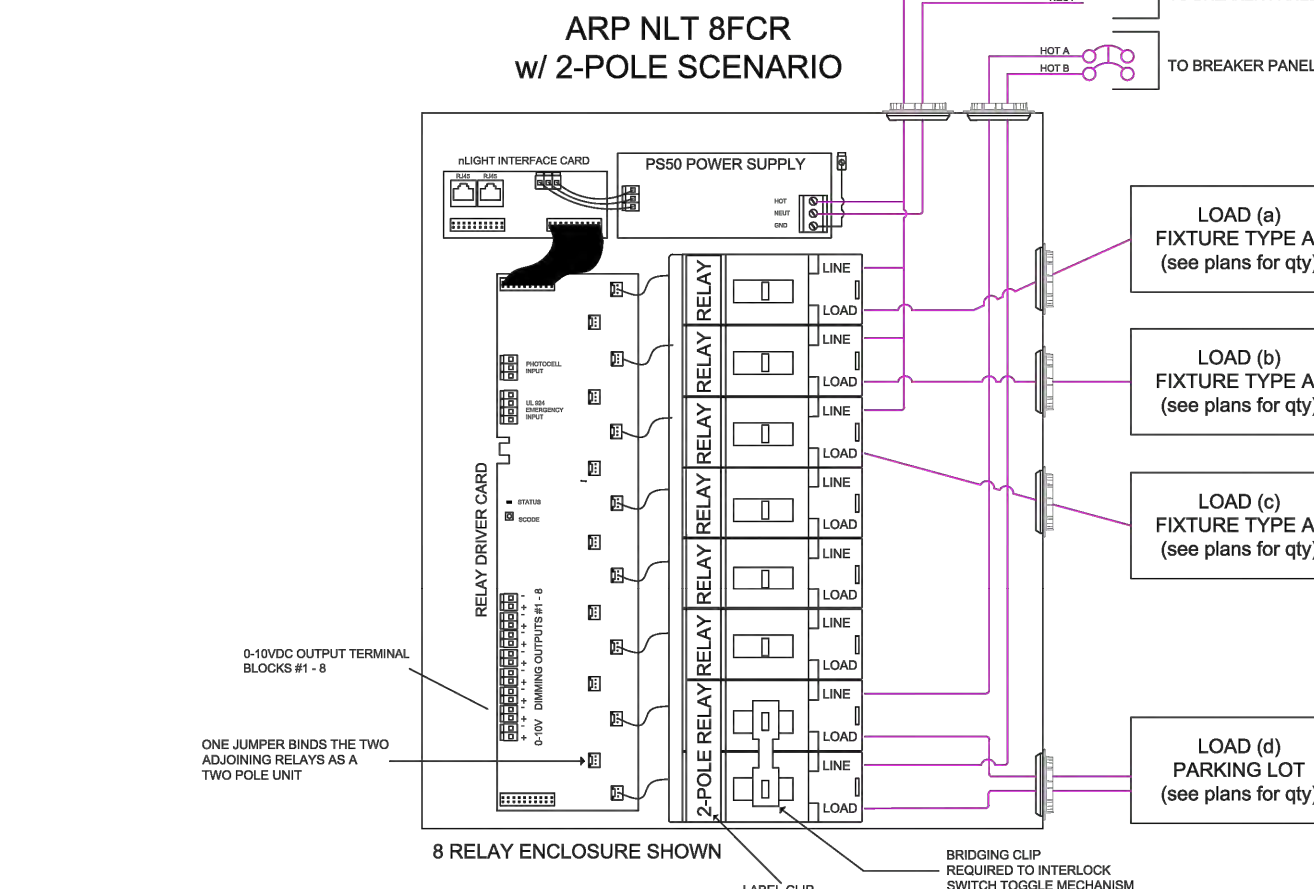
STANDARDS

- UL and cUL 916 listed
- UL 924 listed (for emergency circuit use)
- UL 2043 (Plenum) Rated for Surface Mount Screw cover "SC SM" option (8 & 16 relay enclosure only)

BUS CONNECTOR

- (2) RJ45 connectors
- 40mA Bus Power per RJ45 (80mA total)

SCALE:	BENCH MARK	CITY B.M. 125	COMPUTED	-
HORIZ. 1" = 30'	ELEV=126.60 (NAVD 88)		DESIGNED	JDT
VERT. 1" = N/A	3 1/2" BRASS DISK STAMPED 2018 PLS 8278, LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD. APPROX. 300 FEET EAST OF THE CENTERLINE OF FIDDYDENT ROAD AT THE TOP OF THE CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.		DRAWN	RC
			PROJ. ENGR.	JDT



ARP
© 2016-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 08/17/22

ORDERING INFORMATION

nLight RELAY PANEL		Example: ARP INTENC08 NLT 8FCR MVOLT SC SM			
Panel Size	Relay Quantity				
ARP INTENC08 NLT 8-Relay Enclosure	4SPR ¹ 4 Single Pole Relays	32SPR ² 32 Single Pole Relays	16FCR ³ 16-Field Configurable Relays		
ARP INTENC16 NLT 16-Relay Enclosure	8SPR ¹ 8 Single Pole Relays	48SPR ² 48 Single Pole Relays	24FCR ³ 24-Field Configurable Relays		
ARP INTENC32 NLT 32-Relay Enclosure	12SPR ¹ 12 Single Pole Relays	4FCR³ 4-Field Configurable Relays	32FCR³ 32-Field Configurable Relays		
ARP INTENC48 NLT 48-Relay Enclosure	16SPR ¹ 16 Single Pole Relays	8FCR³ 8-Field Configurable Relays	48FCR³ 48-Field Configurable Relays		
	24SPR ¹ 24 Single Pole Relays	12FCR ³ 12-Field Configurable Relays			

Operating Voltage

MVOLT	120/277VAC	[blank]	No barriers	SC	Screw Cover	SM	Surface Mount	[blank]	No Clock
CNDP	120/277, 347VAC	1VB	1 Voltage Barrier	HLK	Hinge Locking	FM	Flush Mount	DTC	Digital Time Clock
		2VB	2 Voltage Barriers						
		3VB	3 Voltage Barriers						
		4VB	4 Voltage Barriers						

Photosensor Accessories: Order as separate catalog number.

Series	Description	Recommended Application
ARPA PC	Simple switching (at -1.3C) with mechanically adjustable slide	Outdoor dusk to dawn, On/Off only
ARPA APS OL	Analog sensor (0-100FC) with switching/dimming thresholds remotely adjustable (via SensorView)	Outdoor dusk to dawn lighting, On/Off or On/Off Dimming (where necessary)

Additional Accessories: Order as separate catalog number.

Series	Description
ARP DTC BRKT	Hardware to field install nDTC into nLight relay panel (ARP). nDTC ordered separately
ARP FCR CONFIG HARDWARE BAG	Extra set of hardware to create 2 and 3 pole relays in the field (2x 2-pole relays, 1x 3-pole relay)
ARPA FCR40	Replacement FCR40 Relay
ARP BARRIER REPLACEMENT KIT	Additional voltage barrier for 4/8/12/16 relay panels
ARP32-48 VOLTAGE BARRIER	Additional voltage barrier for 24/32/48 relay panels

Catalog Number: GROCERY OUTLET AND SHOPS BUILDINGS Date: Project:

OVERVIEW
The nLight Relay Panel family delivers cost-effective 0-10V dimming and switching for your building design needs. The panel communicates with an nLight network and supports up to 128 digital devices per nLight control zone. Offering a full range of panel sizes, the nLight Relay Panel is ideal for spaces that require full circuit control, with the optional flexibility of configuring single pole relays into a two or three-pole relays in the field.

Also included on each panel is a programmable input that can be connected to a photocell, for example, and a separate dry contact "alarm" input that overrides all relays until the contact is released.



nLIGHT OPERATION
The nLight Relay Panel is nLight-enabled, meaning it has the ability to communicate over an nLight network. When daisy-chain wired with other nLight-enabled sensors, power packs, or WallPods™ using CAT-5e cabling, an nLight control zone is created. Connecting the panel to an nLight network backbone and nLight™ ECLYPSE™ system controller enables time-based control, remote programming and monitoring from SensorView™ software, and BMS integration capabilities.

The digital time clock (DTC) option allows for on-screen configuration and control of connected devices, while introducing scheduling to standalone panel. When connected to nLight backbone and nLight ECLYPSE system controllers the panels relinquish all time clock functionality.

- FEATURES**
- Communicates with an nLight network
 - Up to 128 digital devices per nLight control zone - each nLight Relay Panel utilizes 9 device addresses per 8 relays/dimming outputs:
 - 1 address per relay/dimming output
 - 1 address for the programmable input
 - All relays include local manual override lever
 - All relays are individually programmable
 - One 0-10V dimming output per relay
 - Create and control up to 32 schedules - Normal & Holiday (DTC version)
 - Astronomical Timeclock feature enables +/- Sunset or Sunrise settings and programmable Latitude/Longitude (DTC version)
 - Programmable "dry contact/pull high" input (with provided 24VDC source)
 - Input is programmable to preset/profile scene, photosensor signal, wallpod toggle (maintain or momentary)
 - Contact input for "alarm" override (requires maintain contact signal)
 - All relays communicate with switch/occupancy/photocell channel 1 out of the box (programmable through SensorView)
 - FCR type relays capable of being field configured to 2 and 3-pole relay configurations with included hardware:
 - 4/8 Relay Panel: 2x2-Pole and 1x3-Pole Hardware Included
 - 12/16 Relay Panel: 4x2-Pole and 2x3-Pole Hardware Included
 - 24/32/48 Relay Panel: 6x2-Pole and 3x3-Pole Hardware Included
 - Supplies auxiliary 24VDC power and nLight network bus power (40mA per RJ45 port)
 - Removable back plate for ease of installation
 - UL 924 panel listing for Switching Emergency Circuits
 - Optional field installed voltage barrier(s) for normal/emergency use, or mixed voltage use
 - Remotely Configurable/Upgradeable

ARP INTENC08 NLT 8FCR MVOLT 1VB HLK SM DTC -- for the Grocery Outlet Bldg
ARP INTENC08 NLT 4FCR MVOLT 1VB HLK SM DTC -- for the Shops Bldg
LOCATE REPLAY PANEL CLOSE TO EACH 120V SITE LIGHTING DISTRIBUTION PANEL PROVIDED BY OTHERS

TIMECLOCK IS NOT REQUIRED. HOWEVER, IF TIMECLOCK IS PREFERRED INSTEAD OF INCLUDED ASTRONOMICAL PROGRAMMING, PROVIDE (1) ARPA PC PER PANEL

Buy America
This product 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/resources/buy-america for additional information.

Warranty
Five-year limited warranty. This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at: www.acuitybrands.com/support/warranty/terms-and-conditions
Note: Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.

ARP
© 2016-2022 Acuity Brands Lighting, Inc. All rights reserved. Rev. 08/17/22

Dwg. X:202002-0011-01 (GROCERY OUTLET) (025) ROSEVILLE/ENGINEERING/WORKING/202011-08-STD1.DWG | Sheet: 02-48-23 11:4am ROHEING

REVISIONS					
NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE



DATE	MAR 23, 2023
SHEET	3.3
OF	7

CES ENGINEERING, INC.
916.905.4477 www.conwayengineering.com
13420 Mesa Drive Grass Valley California 95949 USA

ON-SITE IMPROVEMENT PLANS FOR
GROCERY OUTLET
CEC REQUIRED LIGHTING CONTROLS
1751 PLEASANT GROVE BOULEVARD
ROSEVILLE, CALIFORNIA

EN CWJ# GROCERY OUTLET

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

CERTIFICATE OF COMPLIANCE NRCCLTO-E
Project Name: Grocery Outlet, West Roseville, CA Report Page: (Page 1 of 8)
Project Address: 1751 Pleasant Grove Blvd., Date Prepared: 2/16/2023

A. GENERAL INFORMATION

01 Project Location (city)	Roseville	04 Total Illuminated Hardscape Area (ft ²)	6652
02 Climate Zone	11		
03 Outdoor Lighting Zone per Title 24 Part 1 §10.114 or as designated by Authority Having Jurisdiction (AHJ):			
<input type="checkbox"/> LZ-0: Very Low - Undeveloped Parkland	<input type="checkbox"/> LZ-2: Moderate - Rural Areas	<input type="checkbox"/> LZ-4: High - Must be reviewed by CA Energy Commission for Approval	
<input type="checkbox"/> LZ-1: Low - Developed Parkland	<input checked="" type="checkbox"/> LZ-3: Moderately High - Urban Areas		

B. PROJECT SCOPE
This table includes outdoor lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.7 or §141.0(b)(2) for alterations.

My Project Consists of:

<input checked="" type="checkbox"/> New Lighting System	Must Comply with Allowances from §140.7
<input type="checkbox"/> Altered Lighting System	Is your alteration increasing the connected lighting load (Watts)? <input type="radio"/> Yes <input checked="" type="radio"/> No
03 % of Existing Luminaires Being Altered ¹	04 Sum Total of Luminaires Being Added or Altered
<input type="checkbox"/> < 10% <input type="checkbox"/> >= 10% and < 50% <input type="checkbox"/> >= 50%	05 Calculation Method

Please proceed to Table F. Outdoor Lighting Fixture Schedule to define the project's luminaires.
¹ FOOTNOTES: % of Existing Luminaires Being Altered = (Sum Total of Luminaires Being Added or Altered / Existing Luminaires within the Scope of the Permit Application) x 100.

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

C. COMPLIANCE RESULTS
Results in this table are automatically calculated from data input and calculations in Tables F through I. Note: If any cell on this table says "COMPLIES with Exceptional Conditions" refer to Table D. Exceptional Conditions for guidance or see applicable Table referenced below.

Calculations of Total Allowed Lighting Power (Watts) §140.7 or §141.0(b)(2)										Compliance Results	
01	02	03	04	05	06	07	08	09			
General Hardscape Allowance §140.7(d)(1) (See Table I)	Per Application §140.7(d)(2) (See Table J)	Sales Frontage §140.7(d)(2) (See Table K)	Ornamental §140.7(d)(2) (See Table L)	Per Specific Area §140.7(d)(2) (See Table M)	OR Existing Power Allowance §141.0(b)(2) (See Table N)	Total Allowed (Watts)	Total Actual (Watts)	07 must be >= 08			
2,449.05	---	---	---	---	OR ---	2,449.05	≥	2,360.7	COMPLIES		
Cutoff Compliance (See Table G for Details)										COMPLIES	
Controls Compliance (See Table H for Details)										COMPLIES	

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

F. OUTDOOR LIGHTING FIXTURE SCHEDULE
For new or altered lighting systems demonstrating compliance with §140.7 all new luminaires being installed and any existing luminaires remaining or being moved within the spaces covered by the permit application are included in the Table below. For altered lighting systems using the Existing Power method per §141.0(b)(2), only new luminaires being installed and replacement luminaires being installed as part of the project scope are included (ie, existing luminaires remaining or existing luminaires being moved are not included).

Designated Wattage:

01	02	03	04	05	06	07	08	09	10
Name or Item Tag	Complete Luminaire Description	Watts per luminaire ^{1,2}	How is Wattage determined	Total number luminaires ²	Luminaire Status ³	Excluded per §140.7(a)	Design Watts	Cutoff Req. > 5,200 initial lumen output §130.2(b) ⁴	Field Inspector
CY	LED 26.5 <input type="checkbox"/> Linear	26.5	Mfr. Spec	3	New	<input type="checkbox"/>	79.5	NA: < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
P3 >2MH	LED 150 >2MH <input type="checkbox"/> Linear	150	Mfr. Spec	4	New	<input type="checkbox"/>	600	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
P3 1-2MH	LED 150 1-2MH <input type="checkbox"/> Linear	150	Mfr. Spec	5	New	<input type="checkbox"/>	750	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
P4 1-2MH	LED 189.5 1-2MH <input type="checkbox"/> Linear	189.5	Mfr. Spec	2	New	<input type="checkbox"/>	379	Yes	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
SHOP-C	LED 26.4 <input type="checkbox"/> Linear	26.4	Mfr. Spec	8	New	<input type="checkbox"/>	211.2	NA: < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
SHOP-W	LED 32 <input type="checkbox"/> Linear	32	Mfr. Spec	3	New	<input type="checkbox"/>	96	NA: < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
WP1	LED 35 <input type="checkbox"/> Linear	35	Mfr. Spec	7	New	<input type="checkbox"/>	245	NA: < 6200 lumens	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
Total Design Watts:							2360.7		

¹ NOTES: Selections with a * require a note in the space below explaining how compliance is achieved.
EX: Luminaire is lighting a statue; EXCEPTION 2 to §130.2(b)
² FOOTNOTES: Authority Having Jurisdiction may ask for luminaire cut sheets to confirm wattage used for compliance per §130.0(c)
³ For linear luminaires, wattage should be indicated as W/lf instead of Watts/luminaire. Total linear feet should be indicated in column 05 instead of number of luminaires.
⁴ Select "New" for new luminaires in a new outdoor lighting project, or for added luminaires in an alteration. Select "Altered" for replacement luminaires in an alteration. Select "Existing to Remain" for existing luminaires within the project scope that are not being altered and are remaining. Select "Existing Reinstalled" for existing luminaires which are being removed and reinstalled as part of the project scope.
⁵ Compliance with mandatory cutoff requirements is required for luminaires with initial lumen output >= 6,200 unless exempted by §130.2(b)

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

G. CUTOFF REQUIREMENTS (BUG)
This table includes fixtures of >= 6,200 initial lumens indicated on Table F as needing to comply with Cutoff Requirements. Maximum lumens can be found in Title 24, Part 11, Section 5.106.8.

Name or Item Tag	02	03	04	05	06	07	08	09	10	11	12
Complete Luminaire Description	Mounting Height ¹	Backlight Rating ²		Uplight Rating ²		Glare Rating (Lumens) ²			Field Inspector		
		Max Allowable Backlight Rating ³	Backlight Rating Per Design	Lighting type	Max Allowable Uplight Rating ³	Uplight Rating Per Design	Mounting Height ¹	Max Allowable Glare Rating ³	Glare Rating Per Design	Pass	Fail
P3 >2MH	LED 150 >2MH	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	2 MH from property line	G3	G3	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
P3 1-2MH	LED 150 1-2MH	Back hemisphere is 1 - 2 MH from prop line	B4	B1	Area Lighting	U0	U0	2 MH from property line	G3	G3	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
P4 1-2MH	LED 189.5 1-2MH	Back hemisphere is 1 - 2 MH from prop line	B4	B1	Area Lighting	U0	U0	2 MH from property line	G3	G3	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
P3 1-2MH	LED 150 1-2MH	Back hemisphere is 1 - 2 MH from prop line	B4	B1	Area Lighting	U0	U0	2 MH from property line	G3	G3	<input type="checkbox"/> Pass <input type="checkbox"/> Fail
P3 >2MH	LED 150 >2MH	2 MH from property line	No Limit	B3	Area Lighting	U0	U0	2 MH from property line	G3	G3	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

¹ FOOTNOTES: Mounting Height is labeled MH in this table.
² Authority Having Jurisdiction may ask for luminaire cut sheets or other documentation to confirm luminaire type, uplight ratings and glare ratings used for compliance per §130.2(b)
³ BUG ratings with a lower number than the 'Max Allowable' are compliant. Ex. If Max Allowable is Bug Rating B4, then B0, B1, B2 and B3 are all compliant.

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

H. OUTDOOR LIGHTING CONTROLS
This table demonstrates compliance with controls requirements for all new or altered luminaires installed as part of the permit application. For alteration projects, luminaires which are existing to remain (ie untouched) and luminaires which are removed and reinstalled (wiring only) do not need to be included in this table even if they are within the spaces covered by the permit application.
When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.

Mandatory Controls

01	02	03	04	05
Area Description	Shut-Off §130.2(c)(1)	Auto-Schedule §130.2(c)(2)	Motion Sensor §130.2(c)(3)	Field Inspector
	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

¹ NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Not permitted by health & safety to be turned off; EXCEPTION 1 to §130.2(c)

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft
Report Version: 2019.1.003
Schema Version: rev 20200601
Report Generated: 2023-02-16 16:28:16

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

I. LIGHTING POWER ALLOWANCE (per §140.7)
This table includes areas using allowance calculations per §140.7. General Hardscape Allowance is per Table 140.7-A while "Use it or lose it" Allowances are per Table 140.7-B. Indicate which allowances are being used to expand sections for user input. Luminaires that qualify for one of the "Use it or lose it" allowances shall not qualify for another "Use it or lose it" allowance.

Area Description	Surface Type	Area Wattage Allowance (AWA)		Area Wattage Allowance (AWA)		Perimeter Length (lf)	Allowed Density (W/lf)	Linear Allowance (Watts)	Total General AWA + LWA (Watts)
		Illuminated Area (ft ²)	Allowed Density (W/ft ²)	Area Allowance (Watts)	Area Allowance (Watts)				
General Hardscape - Grocery Outlet	Asphalt	48009	0.025	1200.2	1058	0.2	264.5	1465	
General Hardscape - Shop Bldg	Asphalt	18543	0.025	463.6	683	0.2	170.8	634	
Initial Wattage Allowance for Entire Site (Watts):									350
Total General Hardscape Allowance (Watts):									2449

J. LIGHTING ALLOWANCE: PER APPLICATION
This section does not apply to this project.

K. LIGHTING ALLOWANCE: SALES FRONTAGE
This section does not apply to this project.

L. LIGHTING ALLOWANCE: ORNAMENTAL
This section does not apply to this project.

M. LIGHTING ALLOWANCE: PER SPECIFIC AREA
This section does not apply to this project.

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft
Report Version: 2019.1.003
Schema Version: rev 20200601
Report Generated: 2023-02-16 16:28:16

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

N. EXISTING CONDITIONS POWER ALLOWANCE (alterations only)
This section does not apply to this project.

O. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Selections have been made based on information provided in this document. If any selection have been changed by permit applicant, an explanation should be included in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at https://www.energy.ca.gov/title24/2019standards/2019_compliance_documents/Nonresidential_Documents/NRC/

Form/Title	Field Inspector
Pass	Fail
NRCI-LTO-01-E - Must be submitted for all buildings	<input type="checkbox"/> Pass <input type="checkbox"/> Fail

P. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
There are no NRCA forms required for this project.

STATE OF CALIFORNIA
Outdoor Lighting
NRCCLTO-E CALIFORNIA ENERGY COMMISSION

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Gary Conway, LC
Signature Date: [Signature]
Company: CES Engineering, Inc.
Address: 13420 Mesa Drive
City/State/Zip: Grass Valley CA 95949
Phone: 916 905 4477

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Richard Rocucco, PE
Signature Date: 2023-02-16
Company: CES Engineering, Inc.
Address: 13420 Mesa Drive
City/State/Zip: Grass Valley CA 95949
Phone: 916 905 4477

Registration Number: CA Building Energy Efficiency Standards - 2019 Nonresidential Compliance
Registration Date/Time: 2019.1.003
Registration Provider: Energysoft
Report Version: 2019.1.003
Schema Version: rev 20200601
Report Generated: 2023-02-16 16:28:16

Dwg: X:\2020-0011-01 (GROCERY OUTLET) (CDS) ROSEVILLE\ENGINEERING\WORKING\20011-C08-ST01.DWG | Sheet: 02-08-23 11:44am | RHOEING

NO.	DESCRIPTION	APPD. ENGR.	DATE	APPD. E.U.	DATE

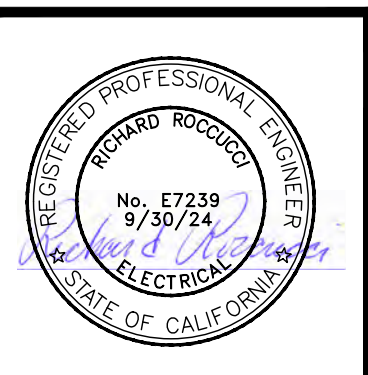
SCALE: HORIZ. 1" = 30' VERT. 1" = N/A

BENCH MARK: CITY B.M. 125
ELEV=126.60 (NAVD 88)
3 1/2" BRASS DISK STAMPED 2018 PLS 8278, LOCATED ON THE SOUTH SIDE OF PLEASANT GROVE BLVD. APPROX. 300 FEET EAST OF THE CENTERLINE OF FIDDYMENT ROAD AT THE TOP OF THE CURB WITHIN THE BUS TURNOUT IN FRONT OF THE BUS SHELTER PAD.

COMPUTED: -
DESIGNED: JDT
DRAWN: RC
PROJ. ENGR: JDT

CES ENGINEERING, INC.
916.905.4477 www.conwayengineering.com
13420 Mesa Drive Grass Valley California 95949 USA

ON-SITE IMPROVEMENT PLANS FOR
GROCERY OUTLET
CEC LIGHTING ENERGY COMPLIANCE
1751 PLEASANT GROVE BOULEVARD
ROSEVILLE, CALIFORNIA



DATE	MAR 23, 2023
SHEET	E4
OF	7

EN CWJ# GROCERY OUTLET