



CAP027912 - NCSA Manteca ED Expansion CITY OF MANTECA ENTITLEMENTS **BACKCHECK #1 REVIEW SUBMISSION** 05/16/2025

SLAM The **S/L/A/M** Collaborative 2290 E. Maple Avenue El Segundo, CA 90034 Phone: 310 559.4717 www.**slamcoll**.com

KAISER PERMANENTE®

CAP027912 MANTECA ED **EXPANSION** 1777 W YOSEMITE AVE. MANTECA, CA 95337

ENTITLEMENTS

KEYPLAN

BACKCHECK #1 1 08/30/2024 FIRST SUBMISSION

COVER SHEET

As indicated **ENT-CO**

PROJECT DIRECTORY

Owner:

Kaiser Permanente

Capital Projects, National Facilities Services, 4601 Dale Rd., Modesto, CA 95356 Contact: Sherry Ramirez

Architect:

The S/L/A/M Collaborative

2290 E. Maple Avenue El Segundo, CA 90245 Contact: Yana Pierzchala

MEP Consultant:

TK1SC / WSP

515 South Figueroa Street Suite 1400, Los Angeles, CA 90071 Contact: Michael Huynh

Structural Consultant:

John A. Martin & Associates

950 South Grand Ave, 4th Floor, Los Angeles, CA 90015 Contact: John Ward

Civil/Landscape Consultant:

O'Dell (A Westwood Company)

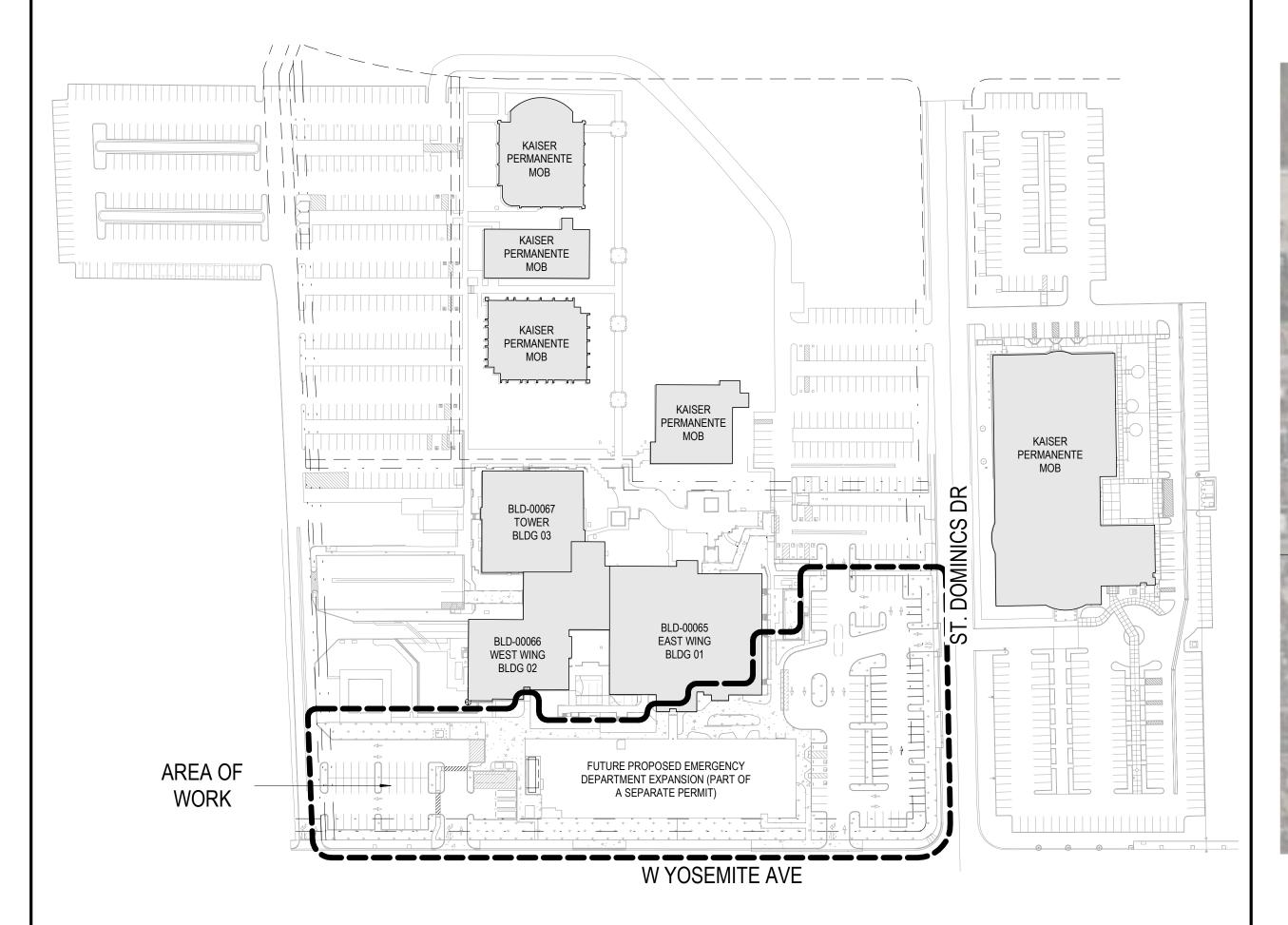
1154 Scenic Drive, Suite A, Modesto, CA, 95350 Contact: Stephanie Kong, Jesse Grafton

Signage Consultant:

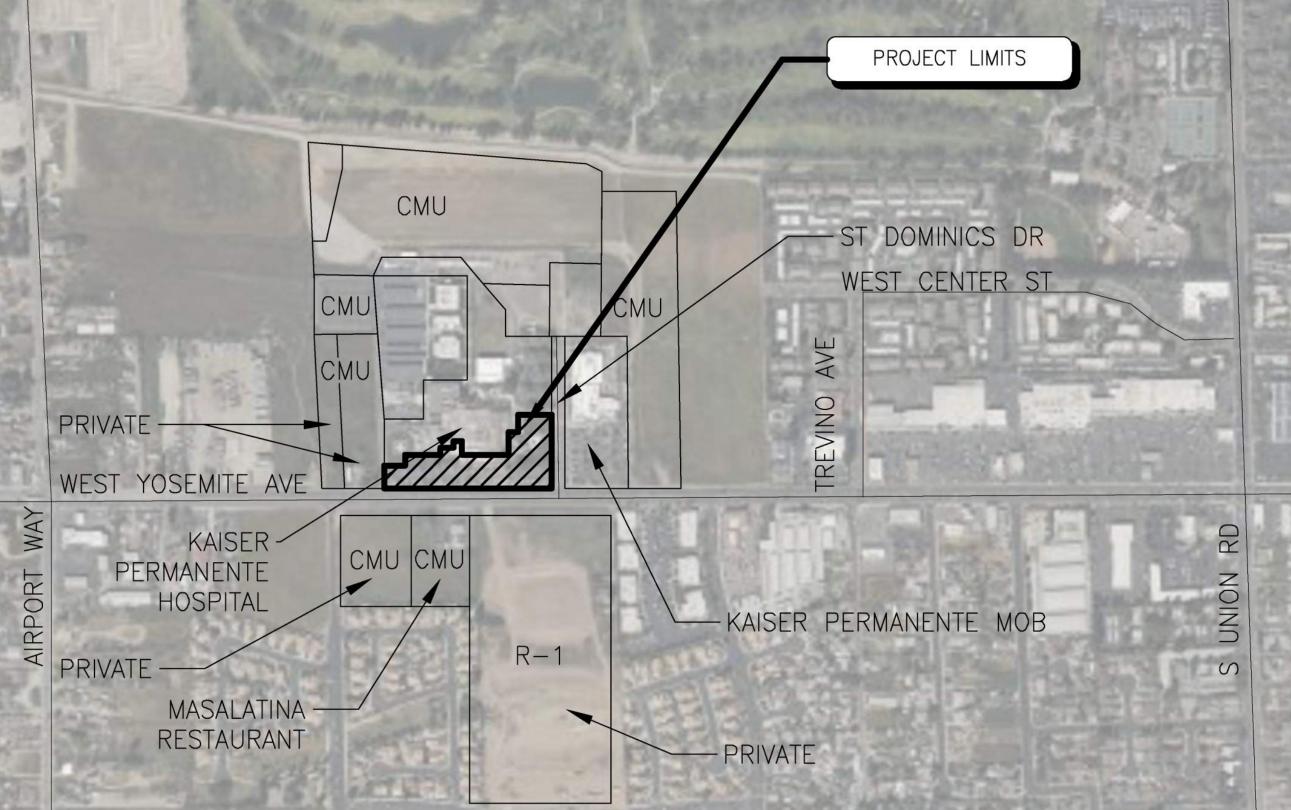
GNU Group

3478 Buskirk Avenue, Suite 265, Pleasant Hill, CA

Contact: Debbie Akin



FACILITY MAP



VICINITY MAP

THRES

T/PR

F.O.F.

F.O.G.

GALV

GLZ

GND

GRD

H.B.

HOR

HTG

FACE OF FINISH

FACE OF STUD

FIREPROOFING

FIRE RATED

F.S. FULL SIZE
FT FOOT OR FEET
F.T.R. FINNED TUBE RADIATION

FUTURE

GAUGE GALVANIZED

GLAZE

GRADE

GROUND

HOSE BIBB HANDICAPPED

HEAD

HOLLOW CORE

HIGH POINT

HARDWOOD

HARDWARE

HORIZONTAL

HEATING

HYDRANT

HEATING UNIT

HEIGHT

HOLLOW METAL

HEATING AND VENTILATING

F.W.C. FABRIC WALL COVERING

GRAB BAR

GENERAL CONTRACTOR

GYPSUM WALL BOARD

GYP BD GYPSUM BOARD / GYPSUM BOARD UNIT

F.O.M. FACE OF MASONRY

FACE OF GYPSUM BOARD

FLAT PANEL DISPLAY

FIRE RETARDANT TREATED

THRESHOLD

TOP OF PAVEMENT

U.L. UNDERWRITER'S LABORATORY

U.N.O. UNLESS NOTED OTHERWISE

V.C.T. VINYL COMPOSITION TILE

VERTICAL

VESTIBULE

V.W.C. VINYL WALLCOVERING

WATER CLOSET WOOD

T.P.D. TOILET PAPER DISPENSER

TOP OF PIER

TOP OF SLAB

T/SH TOP OF SHELF

T/STL TOP OF STEEL

T/W TOP OF WALL

TYP TYPICAL

UNFIN UNFINISHED

V.B. VINYL BASE

V.F. VINYL FABRIC

VOL VOLUME

V.G. VERTICAL GRAIN

V.I.F. VERIFY IN FIELD

WITH

WINDOW

WITHOUT

W.P.T. WORKING POINT

W.S. WALL SLEEVE

WSCT WAINSCOT

WT WEIGHT

WATERPROOF

WWF WELDED WIRE FABRIC

U.V. UNIT VENTILATOR

UR URINAL

VERT

VEST

W/

W.C.

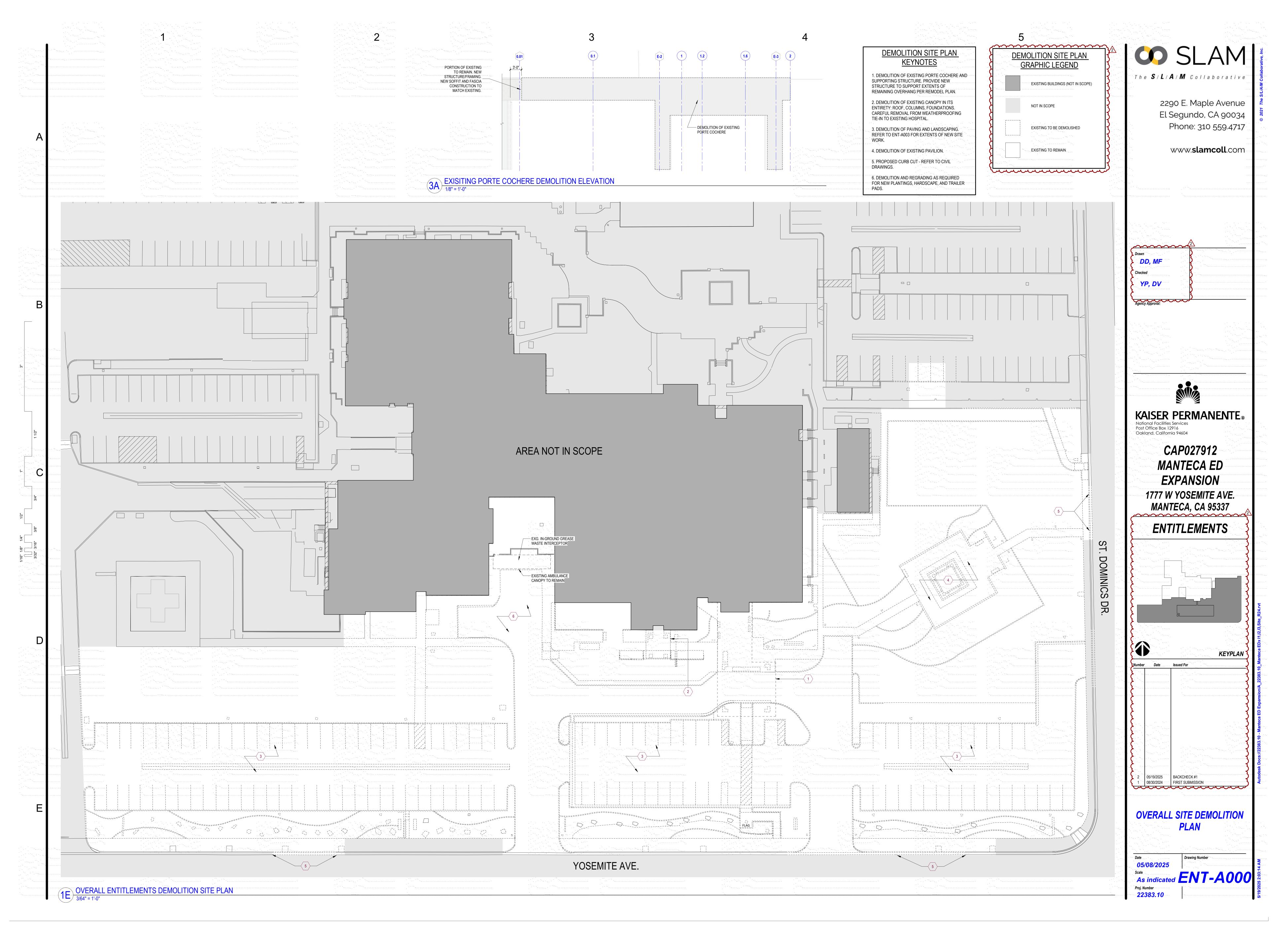
WD

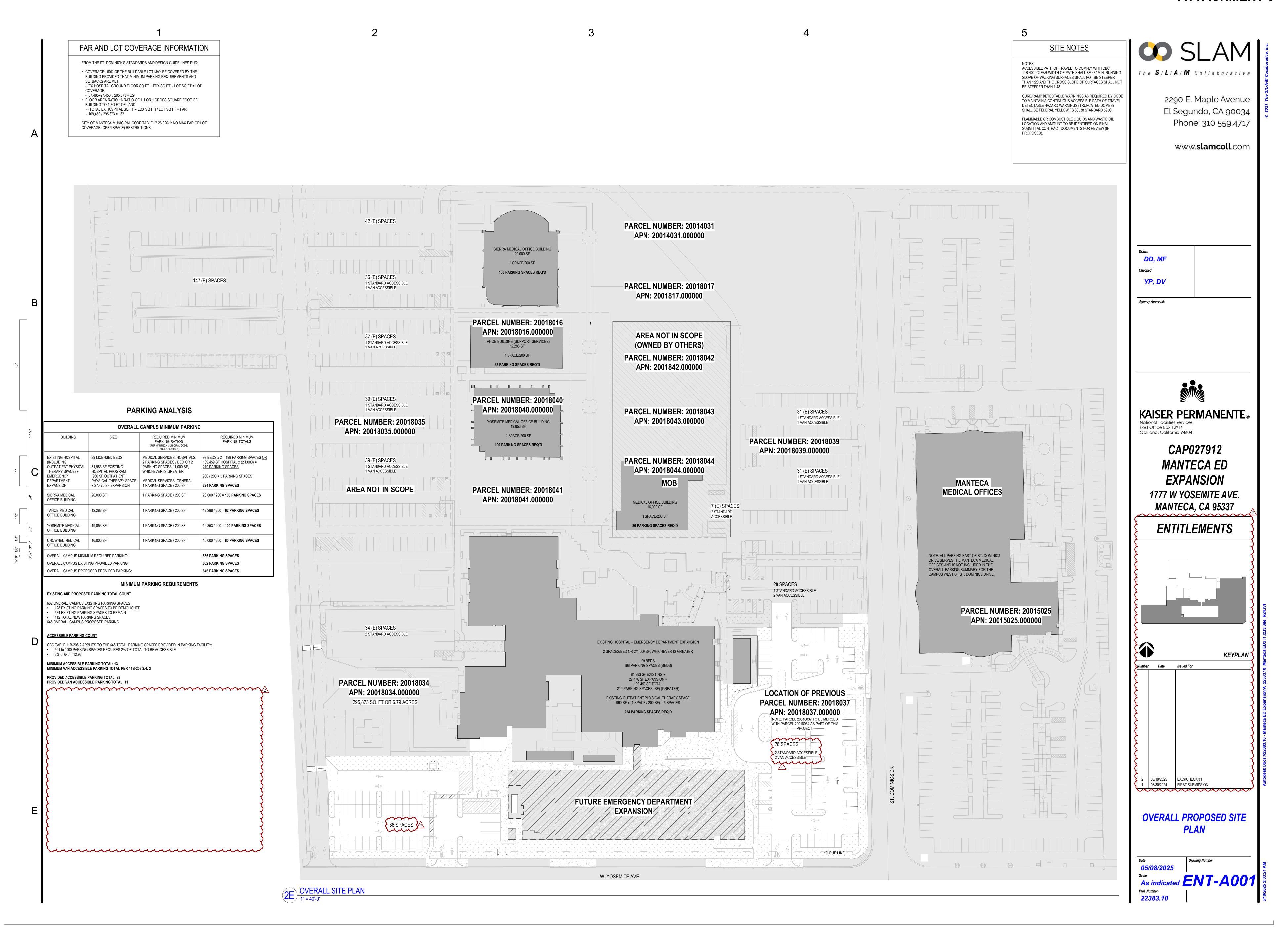
W/O

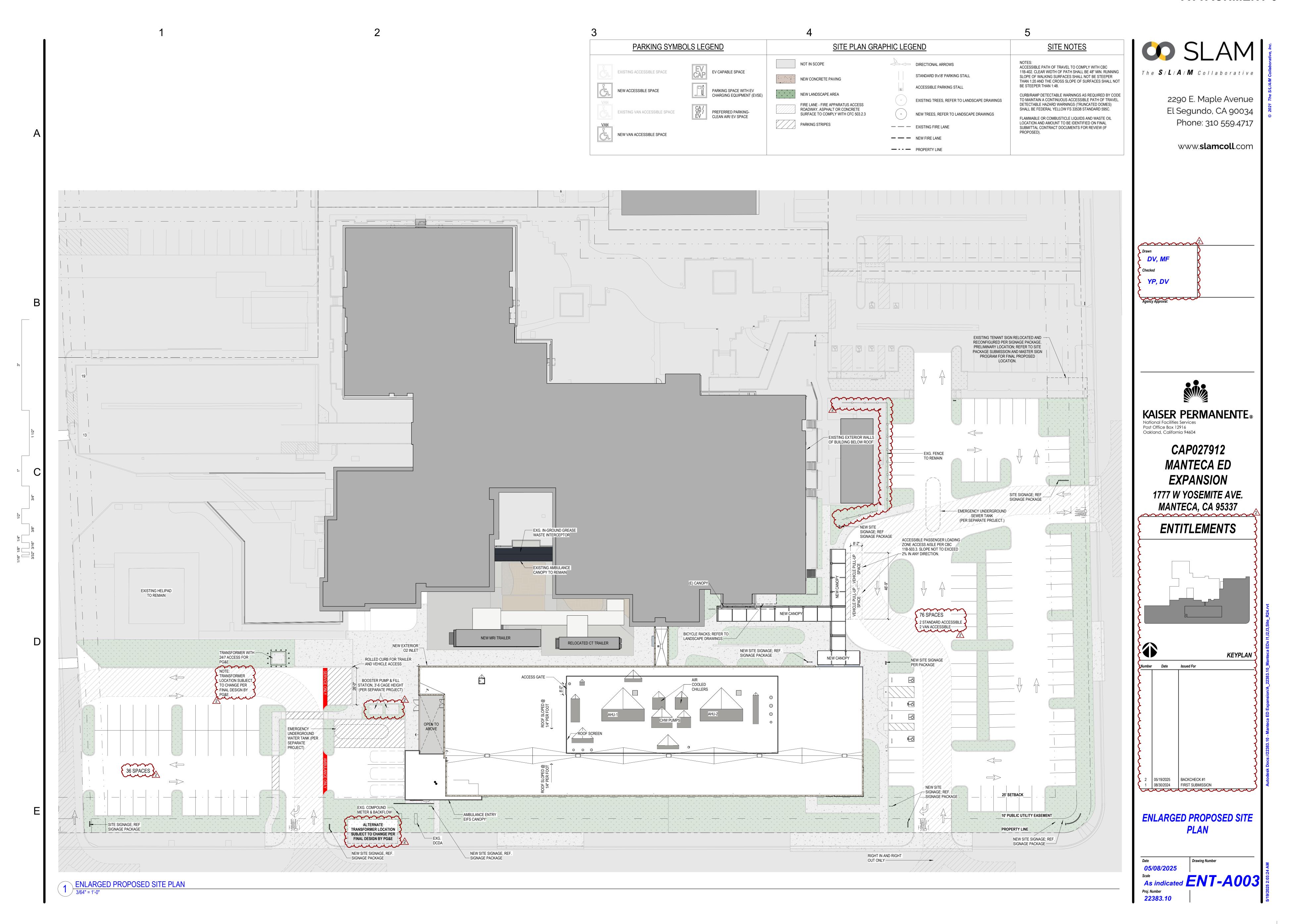
DRAWING LIST

[0] ENTITLEMENTS ENT-C0 COVER SHEET ENT-GI01 GENERAL INFORMATION ENT-A000 OVERALL SITE DEMOLITION PLAN OVERALL PROPOSED SITE PLAN ENT-A003 ENLARGED PROPOSED SITE PLAN OVERALL FIRST FLOOR PLAN ENT-A101 ENT-A301 EXTERIOR ELEVATIONS ENT-A320 RENDERING ENT-A321 COLORS AND MATERIALS BOARD ENT-A400 **BUILDING SECTIONS** ENT-C0.0 SITE PHOTO KEY MAP EXHIBIT ENT-C1.0 PRELIMINARY GRADING EXHIBIT ENT-C2.0 PRELIMINARY UTILITY EXHIBIT ENT-C3.0 POST CONSTRUCTION STORMWATER PLAN ENT-C4.0 PRELIMINARY FIRE EXHIBIT ENT-L0.0 EXISTING TREE REMOVAL PLAN ENT-L1.0 CONCEPTUAL LANDSCAPE PLAN EXHIBIT CONCEPTUAL LANDSCAPE CALC PLAN EXHIBIT ELECTRICAL ENLARGED SITE LIGHTING PLAN ENT-E002 ELECTRICAL SITE LIGHTING PHOTOMETRIC PLAN ENT-E003 LIGHTING FIXTURE SCHEDULE

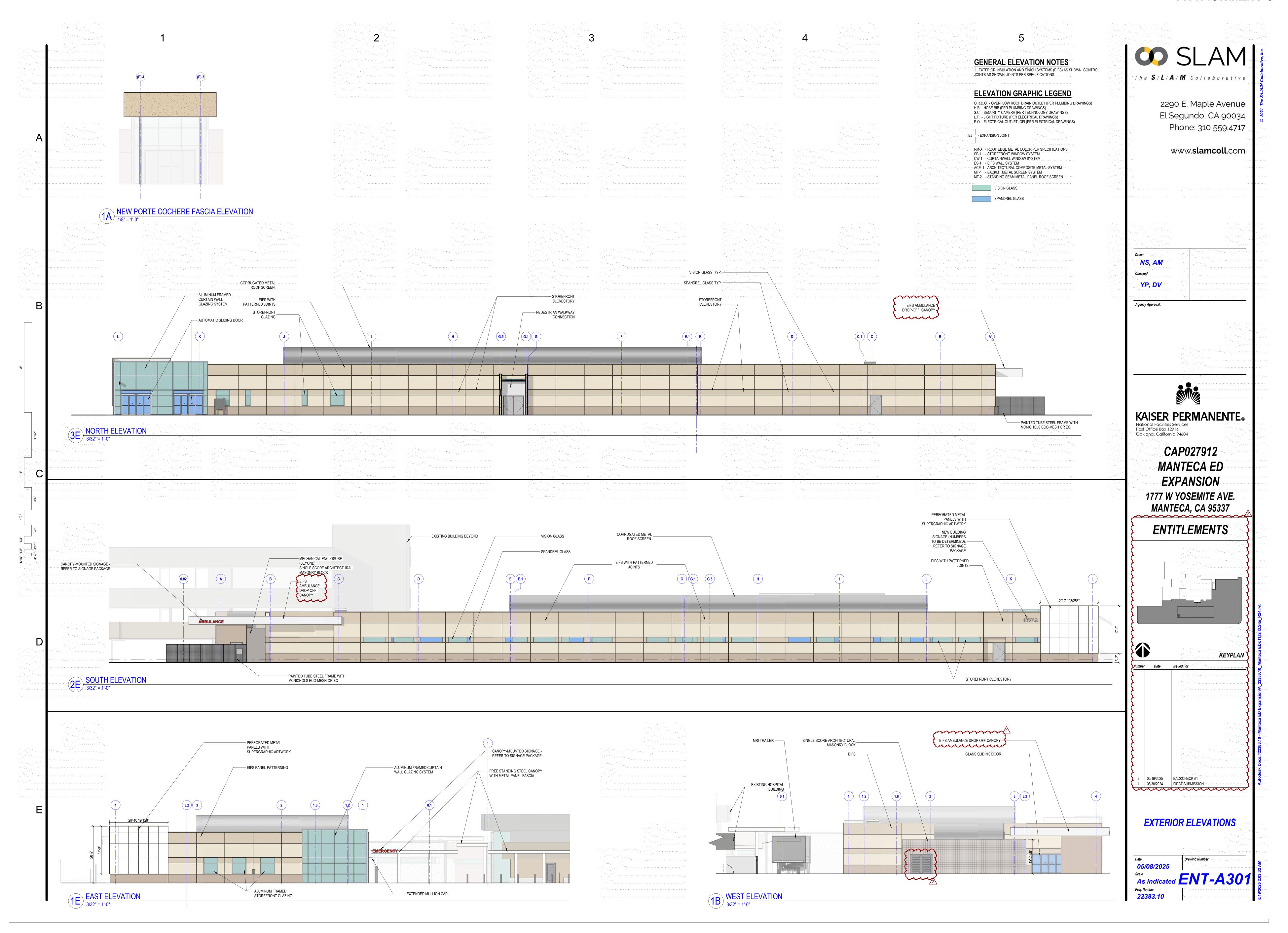












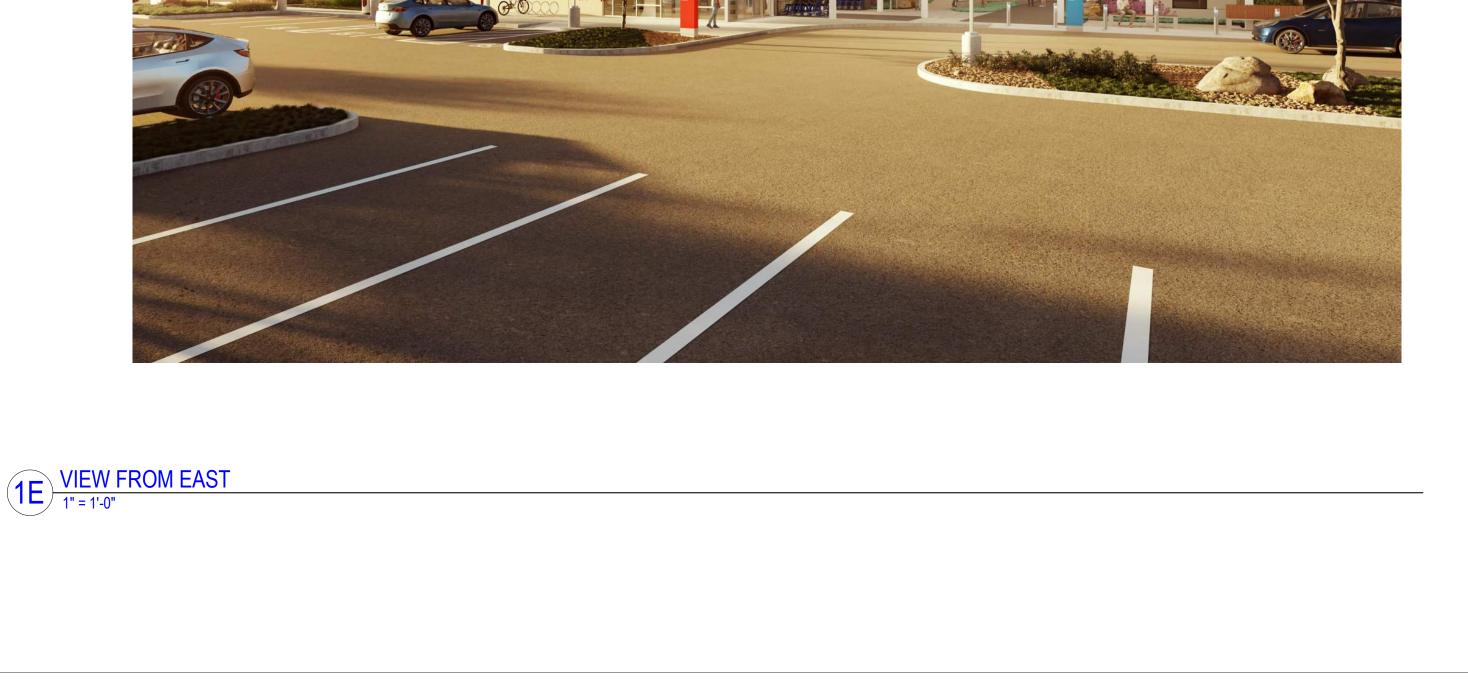




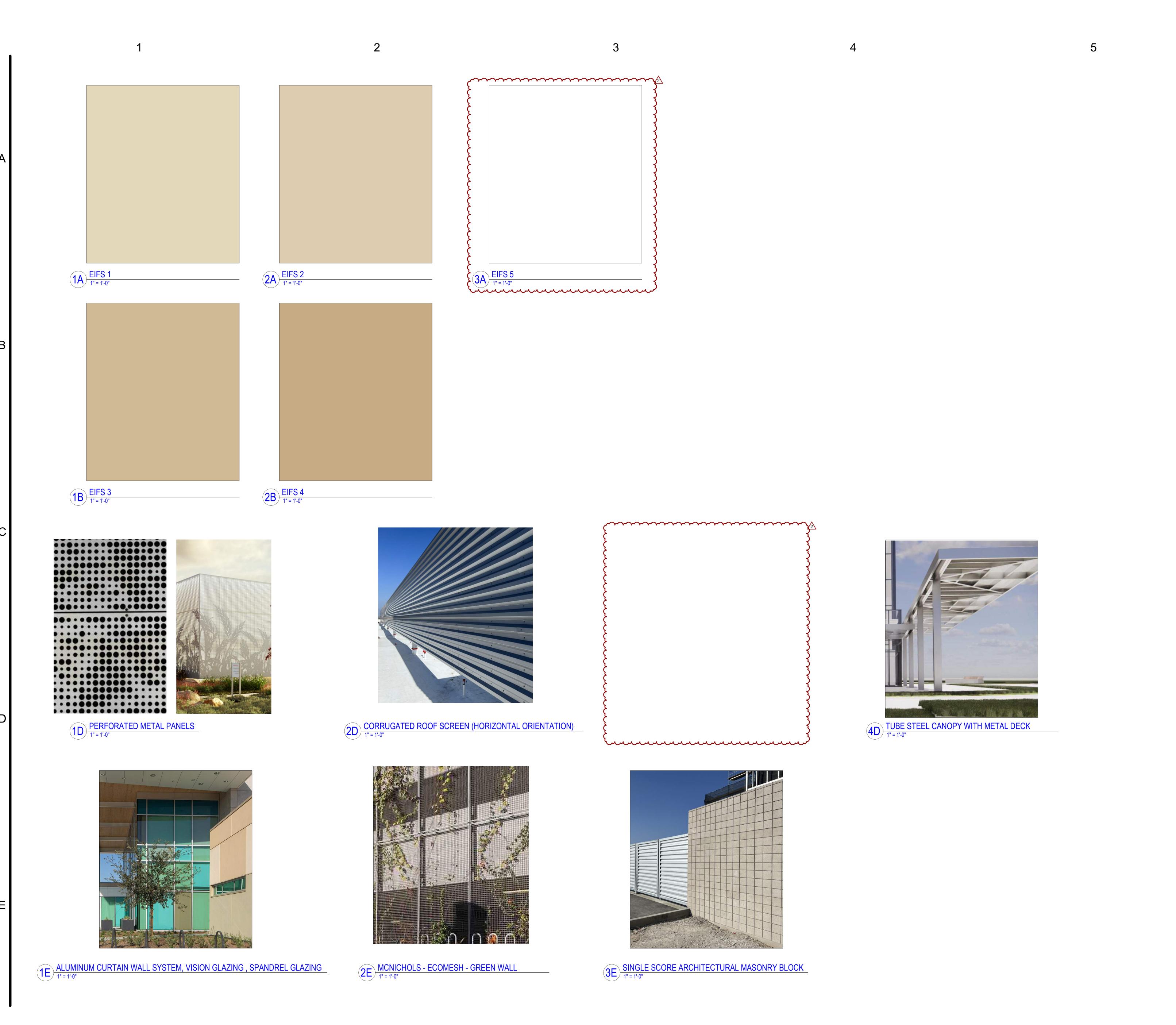




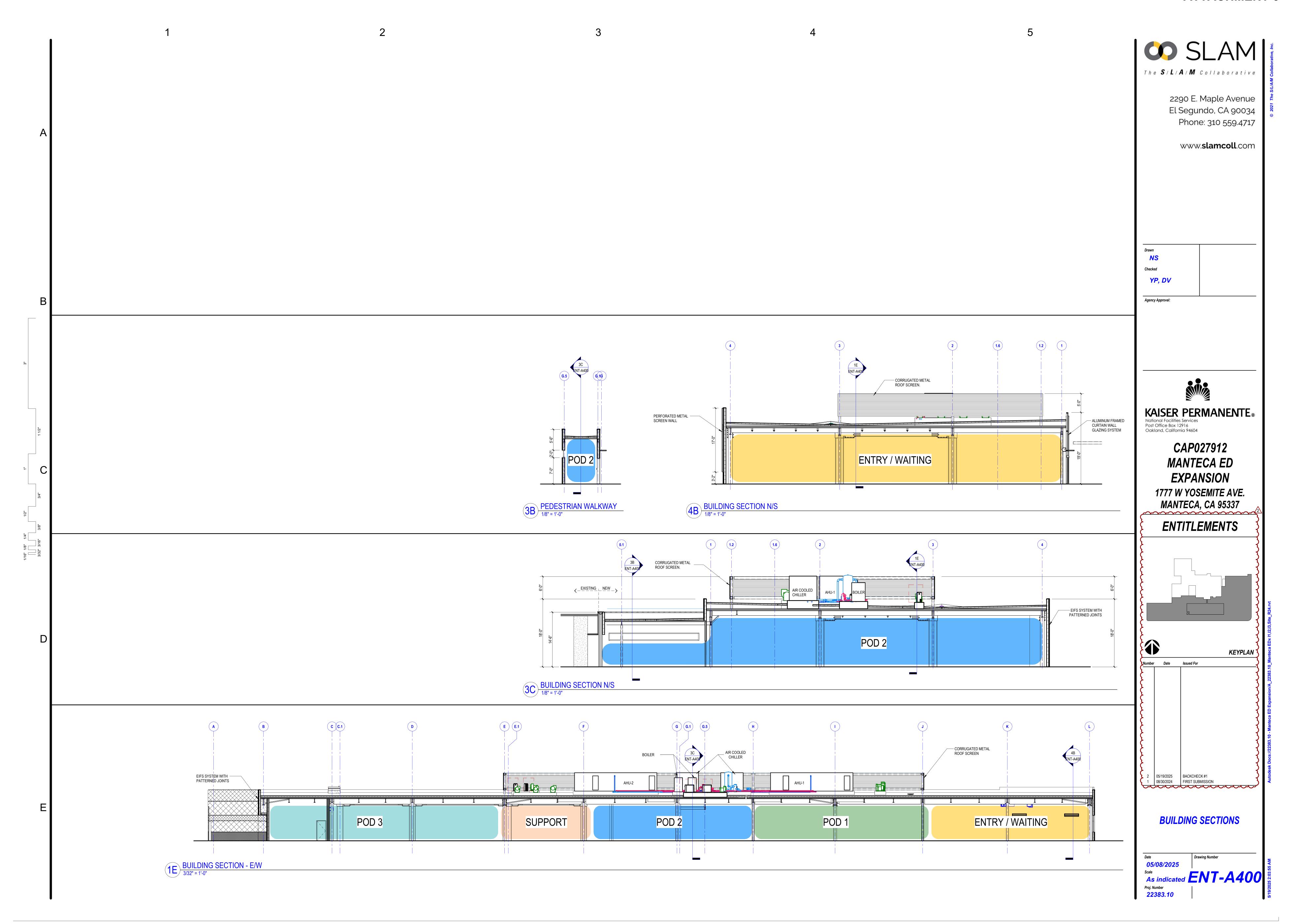












T: 209.571.1765

NUMBER OF PHOTO, LOCATION PHOTO WAS TAKEN & DIRECTION OF PHOTO

NOTE: SEE INCLUDED PHOTOS WITH CORRESPONDING NUMBERS.

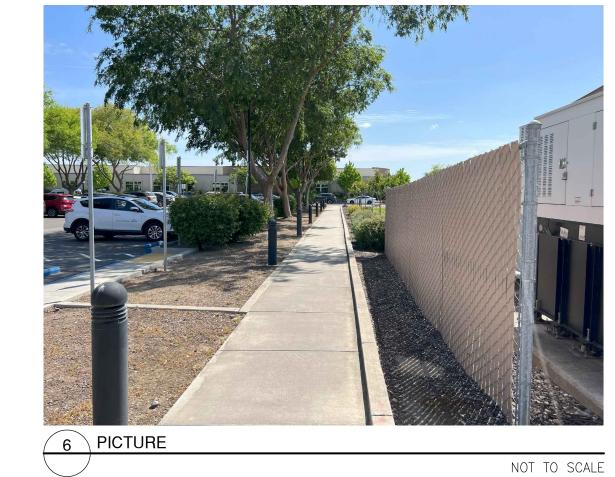








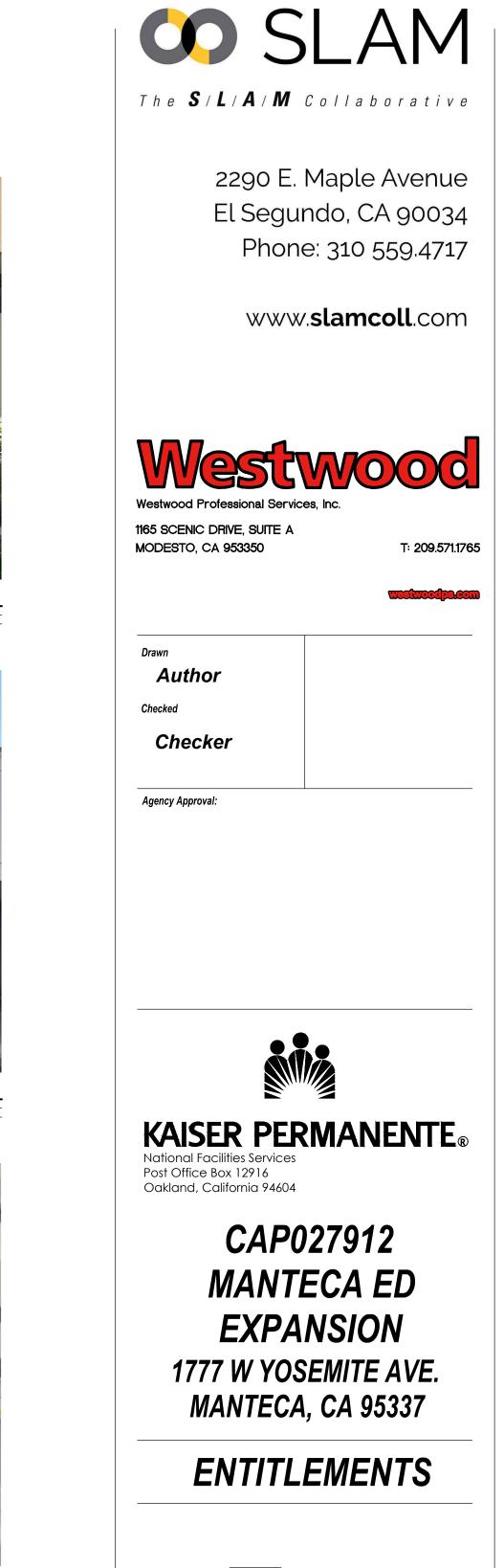


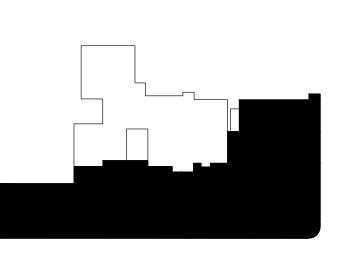












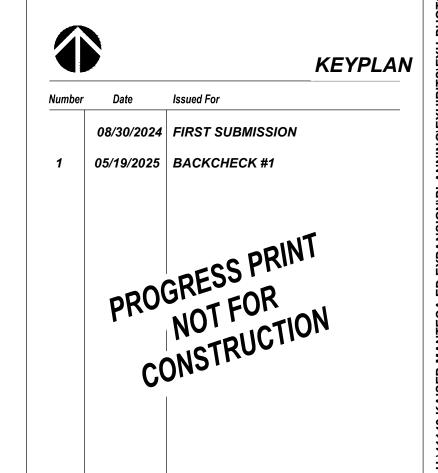


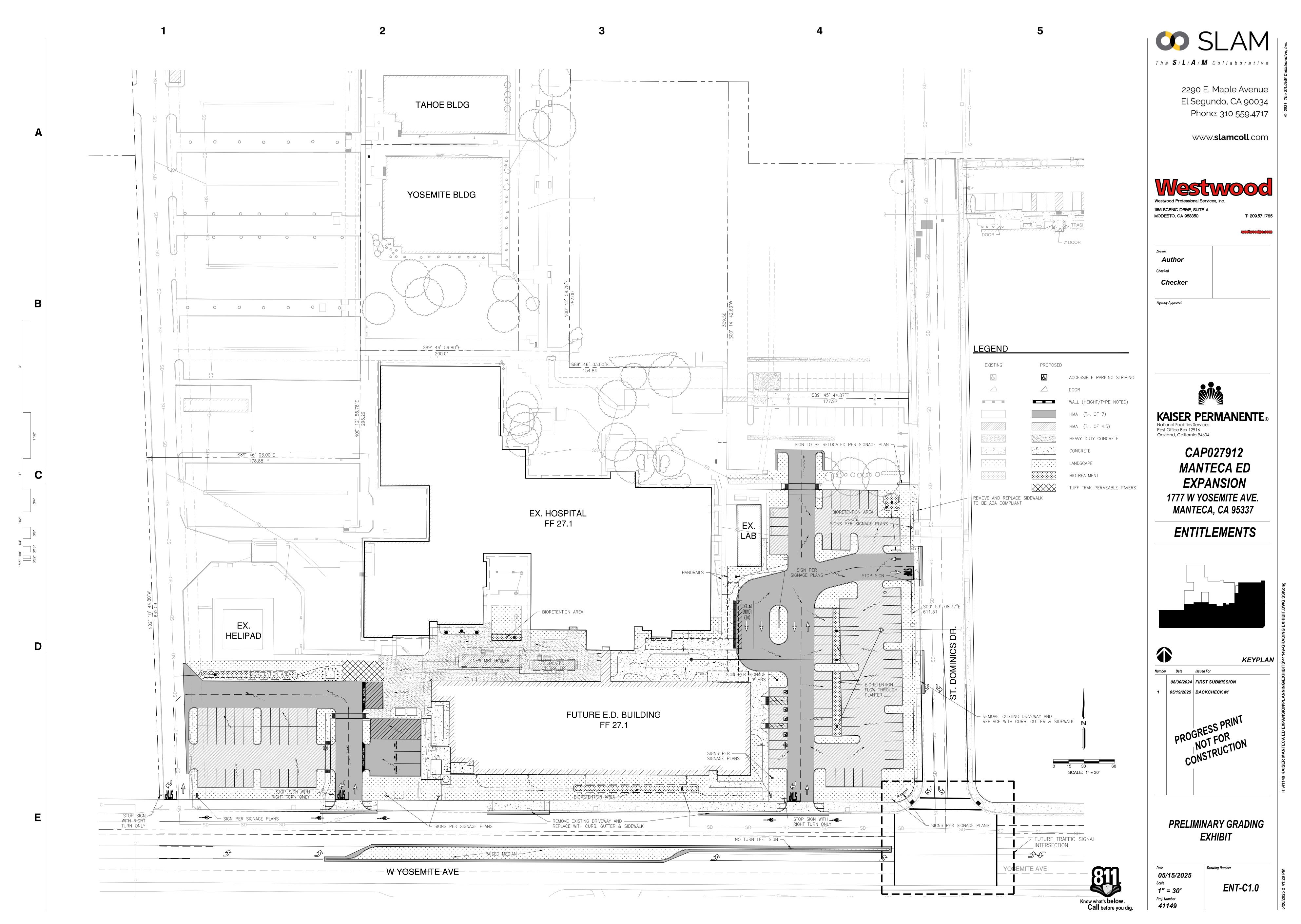
PHOTO KEY MAP EXHIBIT

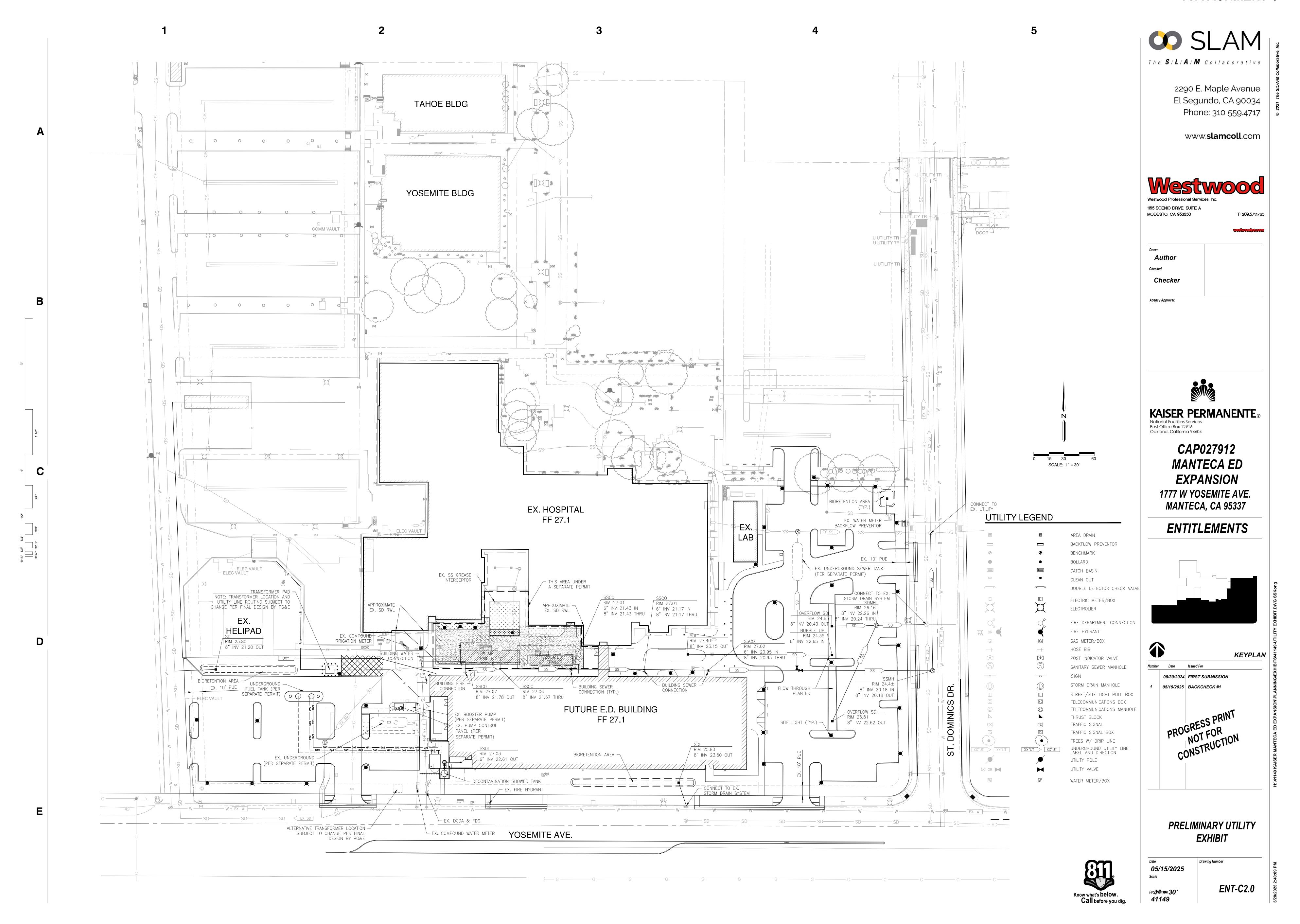
1" = 60'

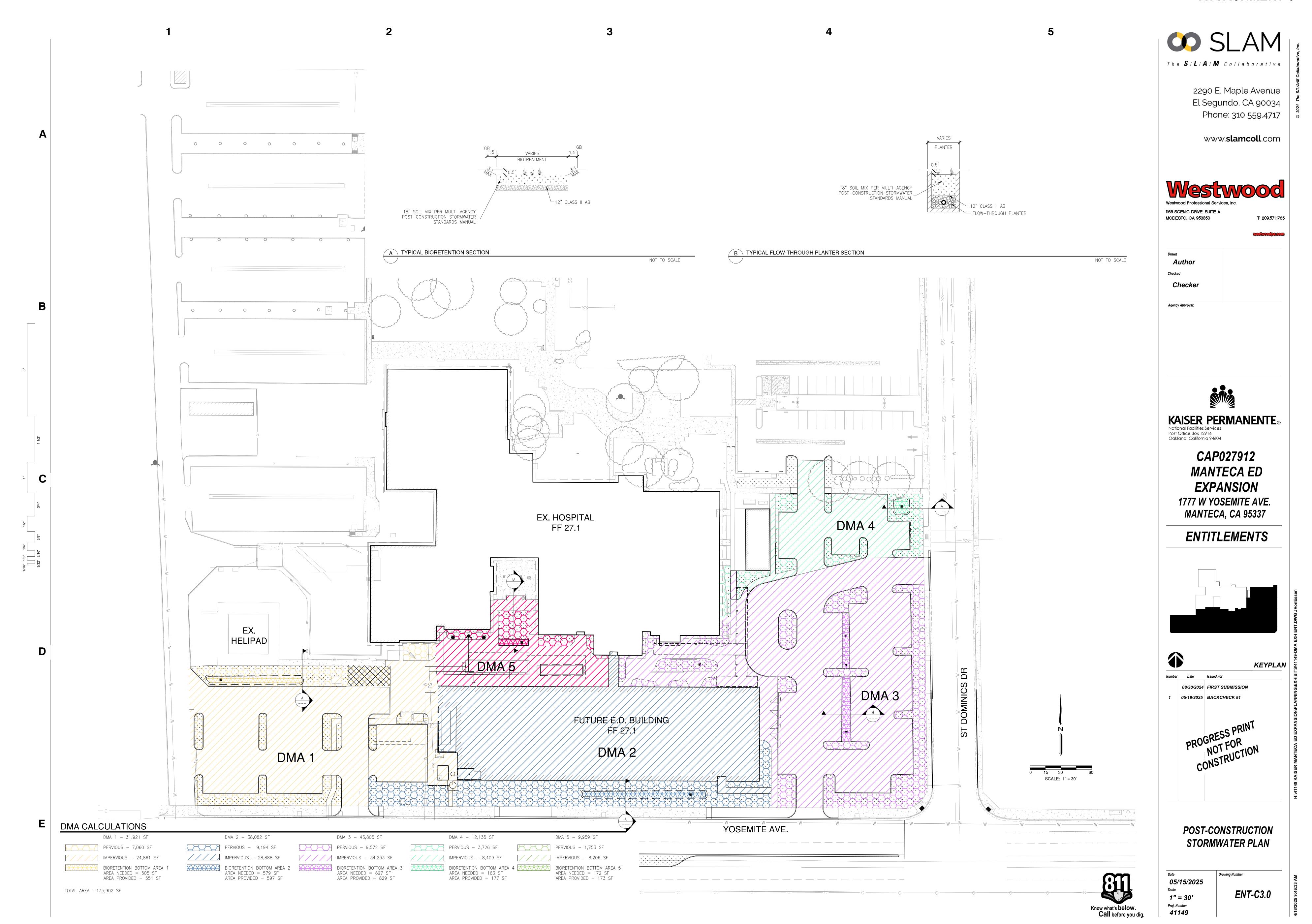
ENT-C0.0



PHOTO KEY MAP





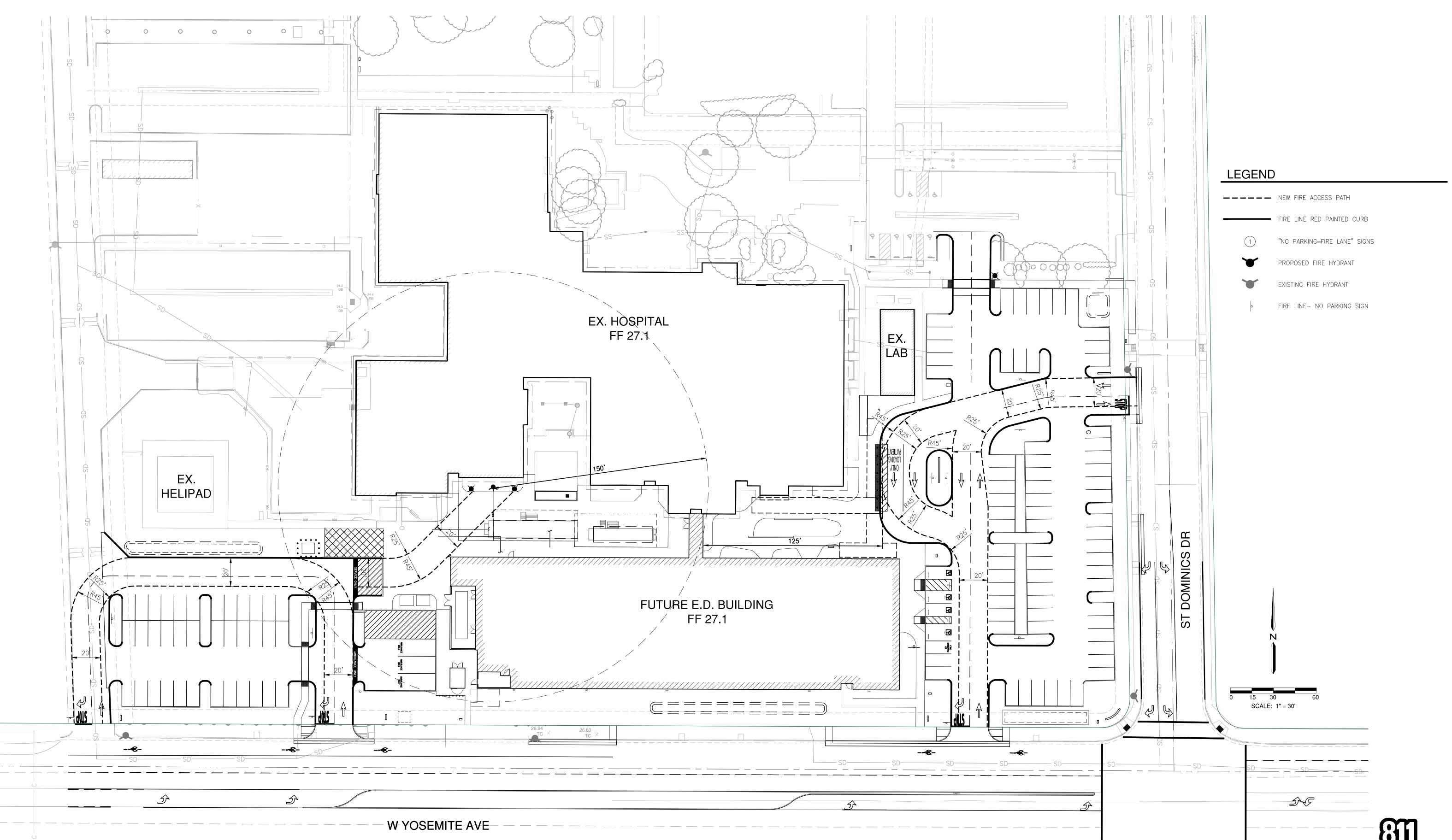


05/15/2025

ENT-C4.0

Scale 1" = 30'

Proj. Number



SLAM The **S**/**L**/**A**/**M** Collaborative 2290 E. Maple Avenue El Segundo, CA 90034 Phone: 310 559.4717 www.**slamcoll**.com 1165 SCENIC DRIVE, SUITE A MODESTO, CA 953350 T: 209.571.1765 MS/JS Agency Approval: KAISER PERMANENTE® National Facilities Services Post Office Box 12916 Oakland, California 94604 CAP027912 MANTECA ED **EXPANSION** 1777 W YOSEMITE AVE. MANTECA, CA 95337 **ENTITLEMENTS** KEYPLAN 08/30/2024 FIRST SUBMISSION 05/19/2025 BACKCHECK #1 EXISTING TREE REMOVAL PLAN 05/15/2025
Scale
AS INDICATED
STANLING NUMBER

STANLING N

SLAM

The **S**/**L**/**A**/**M** Collaborative

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El Segundo, CA 90034

Phone: 310 559.4717

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IRRIGATION NOTES

HI BR HIGH BRANCHED

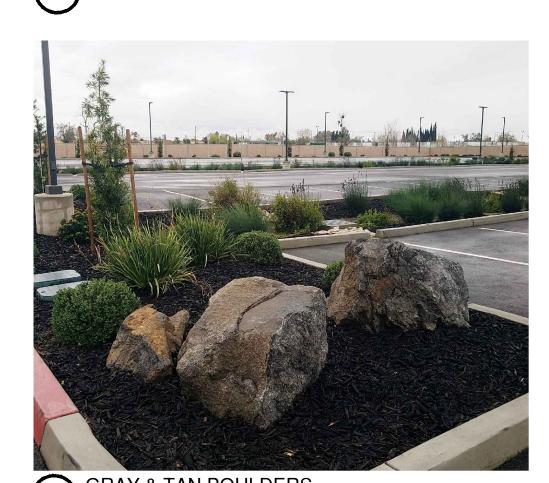
LO BR LOW BRANCHED



1 3/4" ROCK MULCH

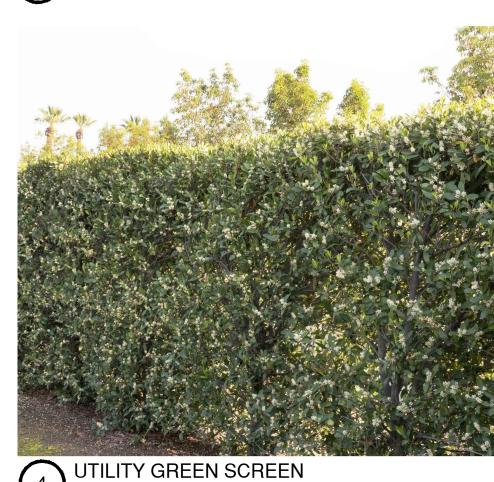


4"-8" SIZE NOIYA COBBLE



GRAY & TAN BOULDERS

RE-LOCATED EXISTING BOULDERS & LOCATED EXISTING BOULDERS & NEW IN-KIND



PLANT LEGEND APPROX SPACING WATER USE QTY SIZE **BOTANICAL NAME COMMON NAME** SYMBOL TREES 24" BOX PER PLAN ACE BLO ACER PALMATUM 'BLOODGOOD' BLOODGOOD JAPANESE MAPLE MODERATE ACE RED ACER RUBRUM 'REDPOINTE' REDPOINTE RED MAPLE 15 GAL PER PLAN MODERATE 18 X CHITALPA TASHKENTENSIS 'PINK DAWN' PINK DAWN CHITALPA 15 GAL PER PLAN LOW KOELREUTERIA PANICULATA GOLDEN RAIN TREE 15 GAL PER PLAN LOW KOE PAN 24" BOX PIS KEI PISTACIA CHINENSIS 'KEITH DAVEY' KEITH DAVEY CHINESE PISTACHE PER PLAN LOW PERIMETER / PARKING LOT & MEDIAN PLANTING CALLISTEMON VIMINALIS 'LITTLE JOHN' LITTLE JOHN DWARF BOTTLEBRUSH 5 GAL LOW 97 48" O.C. COTONEASTER DAMMERI 'LOWFAST' LOWFAST COTONEASTER 1 GAL 60" O.C. LOW DIETES IRIDIOIDES FORTNIGHT LILY 1 GAL 48" O.C. LOW HESPERALOE PARVIFLORA 'BRAKELIGHTS' BRAKELIGHTS DWARF YUCCA 1 GAL 48" O.C. LOW HESPERALOE PARVIFLORA 'YELLOW' YELLOW DWARF YUCCA 1 GAL 48" O.C. LOW BLUE CHIP JUNIPER 1 GAL 60" O.C. JUNIPERUS HORIZONTALIS 'BLUE CHIP' LOW DEER GRASS 1 GAL MUHLENBERGIA RIGENS 48" O.C. LOW LITTLE OLLIE OLIVE 5 GAL 60" O.C. LOW OLEA EUROPAEA 'LITTLE OLLIE' BRIGHT N TIGHT PRUNUS CAROLIANA 'BRIGHT N TIGHT' 5G 48" O.C MODERATE YEDDA HAWTHORN 5 GAL 48" O.C. LOW RHAPHIOLEPIS UMBELLATA 'MINOR' SALVIA GREGGII RED RED AUTUMN SAGE 1 GAL 42" O.C. LOW SANTOLINA CHAMAECYPARISSUS LAVENDER COTTON 1 GAL 48" O.C. LOW 1 GAL 36" O.C. LOW TEUCRIUM CHAMAEDRYS 'PROSTRATUM' PROSTRATE GERMANDER SHADE / COURTYARD PLANTING HEARTLEAF BERGENIA 1 GAL MODERATE 18 BERGENIA CORDIFOLIA 'WINTERGLUT' 24" O.C. 'MAJESTIC' LILYTURF 1 GAL MODERATE LIRIOPE MUSCARI 'MAJESTIC' 5 GAL LOW MAHONIA 'SOFT CARESS' SOFT CARRESS MAHONIA 48" O.C. MOON BAY HEAVENLY NANDINA 5 GAL LOW NANDINA DOMESTICA 'MOON BAY' 36" O.C. OPHIOPOGON JAPONICUS MONDO GRASS 1 GAL 24" O.C. MODERATE WOODWARDIA FIMBRIATA GIANT CHAIN FERN 5 GAL MODERATE BIO-RETENTION PLANTING CAPE RUSH CHONDROPETALUM TECTORUM 60" O.C. LOW JUNCUS PATENS 'ELK BLUE' SPREADING RUSH 1 GAL 36" O.C. MODERATE SALVIA ULIGINOSA BOG SAGE 1 GAL 48" O.C. MODERATE 26 SITE FEATURES AND MATERIALS UB-24-2 ROOT BARRIER. INSTALL PER MANUFACTURER'S RECOMMENDATIONS. ONSTONE BOULDERS. SIZES 2'-4'. COLOR: GRAY & BROWN SHADES. 60% 3'-4' SIZES AND 40% 2'-3' SIZES. RACKS, 292 SERIES, DUMOR. COLOR: BLACK. 10 SHORT TERM BICYCLE PARKING STALLS. BIKE LOCKER, #WBB936373, GLOBAL INDUSTRIAL. COLOR: TBD. 1 LONG TERM BICYCLE PARKING STALL. TABLES WITH CHAIRS STAMPED CONCRETE WITH INTEGRAL COLOR.

Irrigation POC shall be verified in field prior to construction The project shall comply with the more restrictive of the outdoor potable water reduction requirements of the California Green Building Standards Code 5.304 and the Manteca Water Efficient Landscape Ordinance. Irrigation shall be installed consistent with City of Manteca Water Efficient Guidelines and the State Water Efficient Landscape Ordinance (AB1881). PLANT LIST ABBREVIATIONS BR GR BRANCHED TO GROUND

MATCH MATCHED SIZE, FORM, CALIPER, BRANCHING AND CULTIVAR. SELECT DV DWARF VARIETY FROM ONE LOT, ONE GROWER, FOR GUARANTEED CONSISTENCY THROUGH F&B FULL DENSE, BUSHY, VIGOROUS LIFE OF PLANTS. IN GENERAL PLANTS, WITH YOUNG GROWTH PLANTS WITHIN A GROUP OR AREA CLOSELY SPACED ON BRANCHES OTHERWISE FGR FREE OF GIRDLING ROOTS MULTI MULTI STEMMED GAL GALLON CAN

ACE BLO 3 24" BOX

ARE TO BE MATCHED, UNLESS NOTED SL SINGLE, STRAIGHT, DOMINANT LEADER TRI SP TRIANGULARLY SPACED TTW TRAIN TO WALL VAR VARIEGATED SPECIES

10.03

LANDSCAPE NOTES

- The project shall comply with the more restrictive of the outdoor potable water reduction requirements of the California Green Building Standards Code 5.304 and the Manteca Water Efficient Landscape Ordinance. Planting shall be installed consistent with City of Manteca Water Efficient Guidelines
- All planting areas shall receive 3" depth of decorative mulch
- Root Barrier required when tree is within 10 feet of hardscape.
- See civil engineering plans for parking lot layout.
- Specialty concrete at main building entry/ exits per legend, this sheet.
- Short term bicycle parking stalls: 10 total
- Long term bicycle parking stall: 1 total
- Relocated existing tenant sign

EX. HOSPITAL

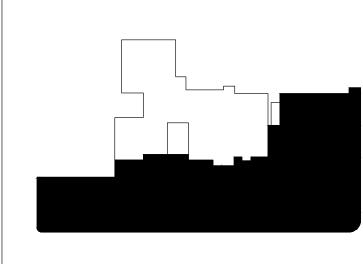
1165 SCENIC DRIVE, SUITE A T: 209.571.1765 MODESTO, CA 953350 MS/JS Agency Approval:

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CAP027912 MANTECA ED **EXPANSION** 1777 W YOSEMITE AVE. MANTECA, CA 95337

ENTITLEMENTS



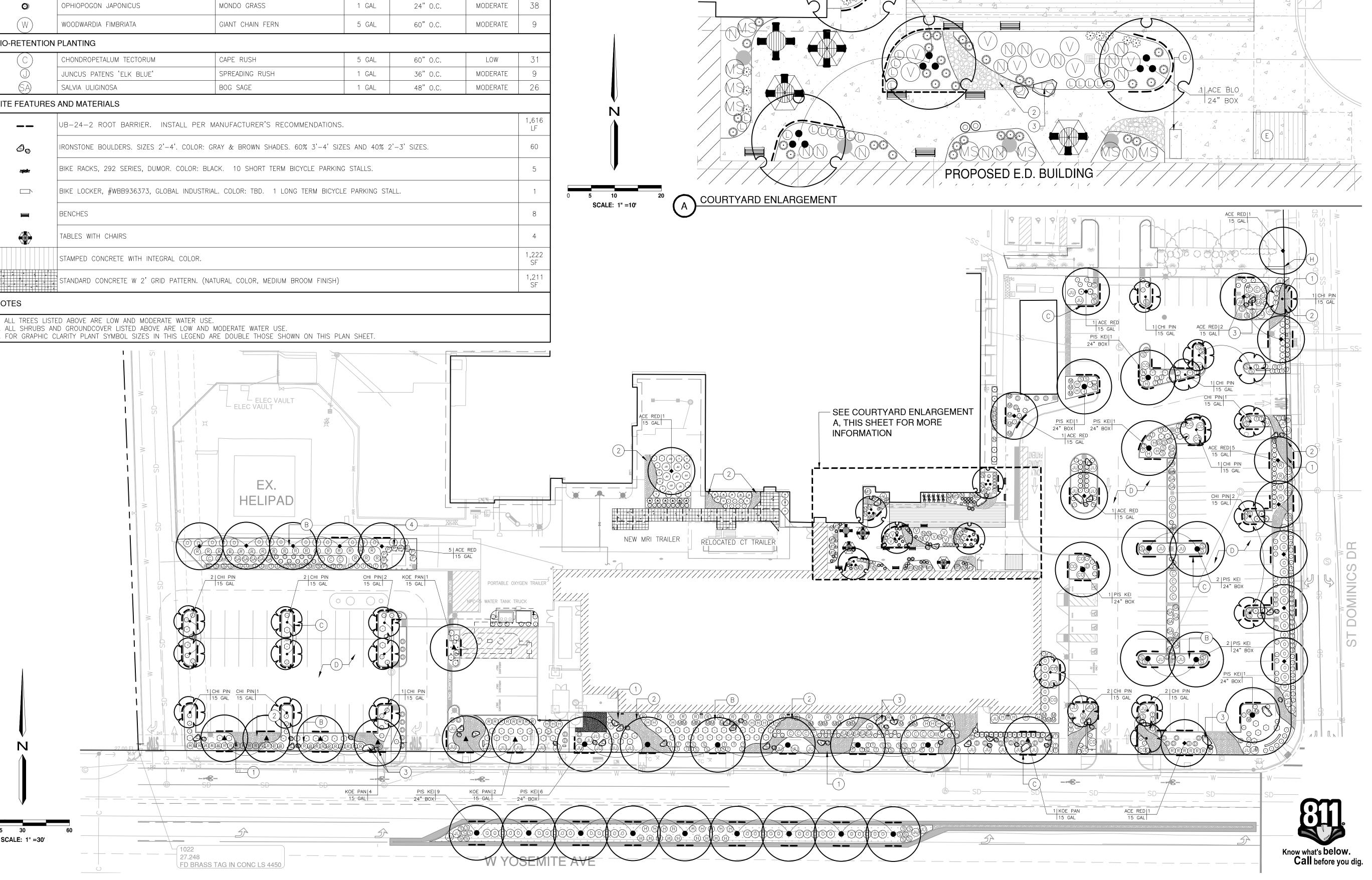
KEYPLAN 08/30/2024 FIRST SUBMISSION 1 05/19/2025 BACKCHECK #1

CONCEPTUAL LANDSCAPE PLAN **EXHIBIT**

05/15/2025

41149

AS INDICATED **ENT-L1.0**



0 0 0 0 3 1,443

(Required By CITY MMC 17.48.050, Section F Design Requirements) =

15 Year Diameter

Tree Size

>25' Diam.

>35' Diam.

>40' Diam.

Coverage Coverage Coverage
Plan Plan Plan Plan
Symbol-1 Symbol-.75 Symbol-.5 Symbol-.25

Total Area Shaded by Trees =

Total Paved Hardscape Area =

Total Area Shaded by Trees =

60% Shade Area for On—Site Pedestrian Walkways

Total Percent of Hardscape Area Shaded by Trees =

Total Shade

Coverage

1,808 S.F.

2,655 S.F.

1,443 S.F.

5,906 S.F.

8,646 S.F.

5,188 S.F.

5,906 S.F.

68.3%

SLAM

The **S**/**L**/**A**/**M** Collaborative

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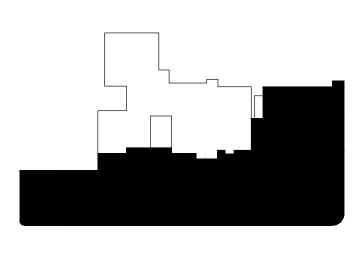
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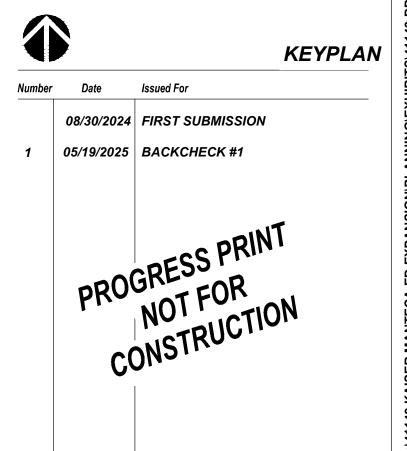
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CAP027912 MANTECA ED **EXPANSION** 1777 W YOSEMITE AVE. MANTECA, CA 95337

ENTITLEMENTS





CONCEPTUAL LANDSCAPE CALC PLAN EXHIBIT

05/15/2025 AS INDICATED ENT-L1.1

PARKING LOT LANDSCAPE ISLAND CALCULATIONS **ON-SITE LANDSCAPE AREA CALCULATIONS** TOTAL PROJECT AREA - PARCEL SIZE: TOTAL PROPOSED PARKING STALLS: 112 STALLS

TOTAL LANDSCAPE AREA: ±32,900 SF 100% PARKING LOT PLANTER ISLANDS REQUIRED SHRUB AND GROUNDCOVER AREA: ±28,598 SF (RATIO OF 1 PER 8 STALLS): 14 ISLANDS LANDSCAPE ROCK MULCH / DG AREA: ±4,302 SF PARKING LOT PLANTER ISLANDS PROVIDED (INCLUDES BOTH FINGER AND END ISLANDS): 26 ISLANDS PERCENT OF SITE IN LANDSCAPE:

EXISTING TREES

REFER TO SHEET ENT-L0.0 FOR EXISTING TREE PLAN.

OFF-SITE LANDSCAPE AREA CALCULATIONS (REFERENCE ONLY)

±135,171 SF (3.1 AC)

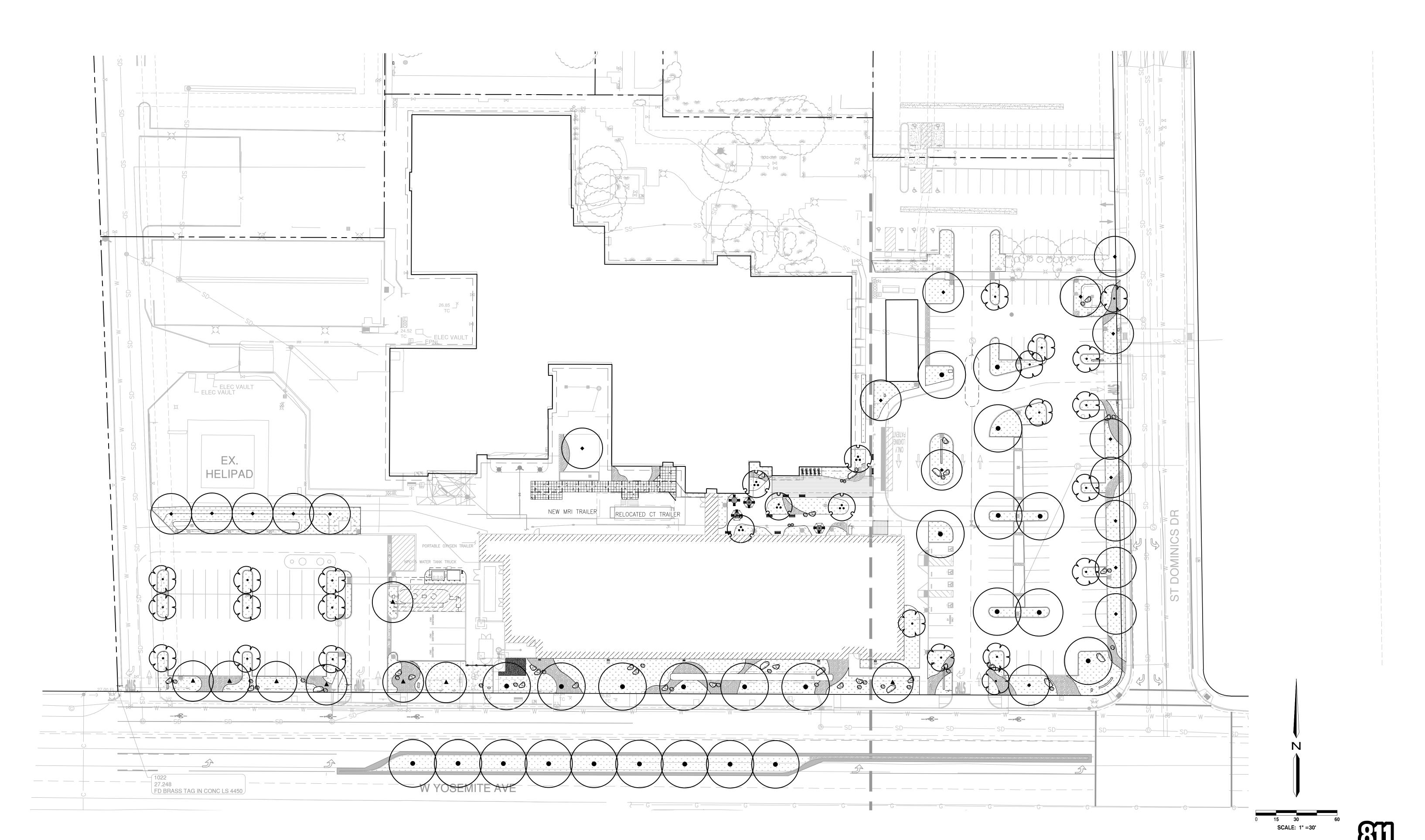
87%

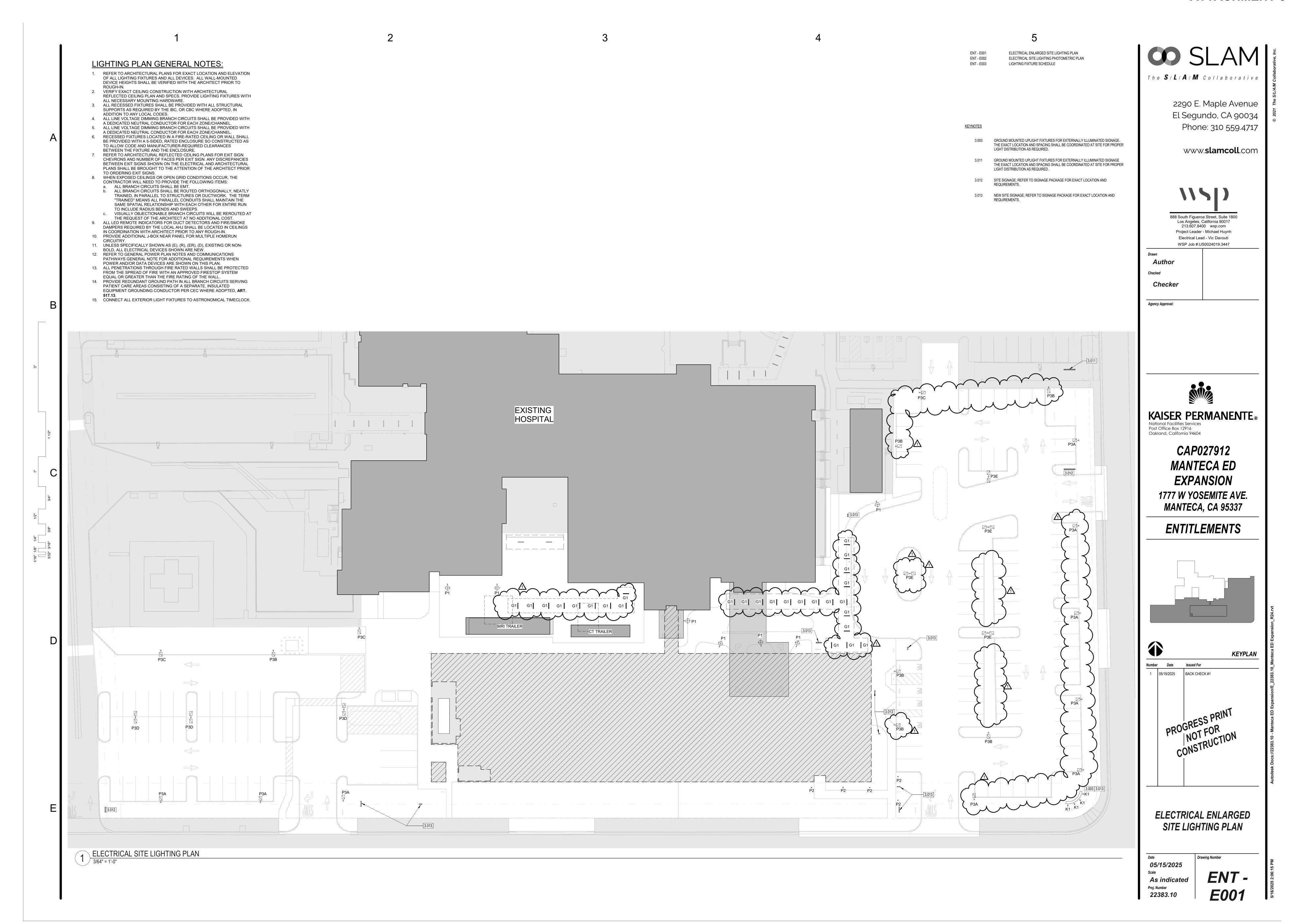
13%

23.0%

±3,795 SF 100% SHRUB AND GROUNDCOVER AREA: ±3,583 SF 94%

MEDIAN LANDSCAPE AREA: LANDSCAPE ROCK MULCH AREA: ±212 SF







A. GENERAL NOTES:

THE LIGHTING FIXTURES, LAMPS, BALLASTS, POWER SUPPLIES. DRIVERS AND TRANSFORMERS FOR THIS PROJECT HAVE BEEN SPECIFIED TO ENSURE THAT SPECIFIC AESTHETIC AND PERFORMANCE REQUIREMENTS WILL BE SATISFIED. THESE PRODUCTS HAVE BEEN CAREFULLY RESEARCHED AND EACH SPECIFIED ITEM HAS UNIQUE QUALITIES WHICH WERE DETERMINED TO BE ESSENTIAL IN SATISFYING THE OWNER'S, ARCHITECT'S, ENGINEER'S AND LIGHTING CONSULTANT'S DESIGN CRITERIA.

LIGHTING FIXTURE SCHEDULE NOTES:

CONTRACTOR SHALL PROVIDE ALL MATERIALS AS DETAILED ON DRAWINGS AND/OR SCHEDULES, AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING LIGHTING SYSTEM.

CONTRACTOR SHALL NOTIFY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT OF ANY PROVISIONS OF THE SPECIFICATION THAT IS IN CONFLICT WITH LOCALLY ENFORCED CODES.

4. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ARCHITECT OF ANY REQUIRED MODIFICATIONS THAT ARE NOT SHOWN ON THE

5. ALL ELECTRICAL MATERIAL SHALL BE IN NEW & UNDAMAGED CONDITION WHEN INSTALLED. ALL EQUIPMENT SHALL BE LISTED BY A NATIONALLY RECOGNIZED TESTING LABORATORY.

6. ALL DIMENSIONS & MEASUREMENTS FOUND ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL VALIDATE ALL DIMENSIONS PRIOR TO ORDERING MATERIAL TO INCLUDE MAKING FIELD MEASUREMENTS BASED ON ACTUAL SITE CONDITIONS TO DEVELOP COMPLETE ORDERS AND INSTALL SYSTEMS PER DRAWINGS AND SPECIFICATIONS.

REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION OF ALL LIGHTING FIXTURES AND ASSOCIATED DEVICES AND EQUIPMENT

PRIOR TO AIMING/ADJUSTING ACTIVITIES, COMMISSIONING OR PUNCHWALK COMMENCEMENT, CONTRACTOR SHALL PROPERLY TEST AND VERIFY ALL CIRCUITRY AND CONTROL WIRING AND IMPLEMENT ALL CONTROLS PROGRAMMING.

B. INSTALLATION:

1 LOCATIONS OF THE FIXTURES SHALL BE PER THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND SHALL BE COORDINATED AT TIME OF ROUGH IN. CONFLICTS BETWEEN THE ARCHITECTURAL REFLECTED CEILING PLAN(S) AND THE ELECTRICAL/LIGHTING DESIGN PLAN(S) SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT IN WRITING PRIOR TO ORDERING FIXTURES.

2. LIGHTING DRAWINGS REPRESENT THE DESIGN INTENT OF THE EQUIPMENT, DEVICES, ETC. TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES AND ADDITIONAL HARDWARE AND DEVICES AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

ALL LIGHTING FIXTURES SHALL BE MOUNTED AND INDIVIDUALLY SUPPORTED IN ACCORDANCE WITH APPLICABLE CODES. FIXTURES SHALL BE FURNISHED AND INSTALLED WITH ALL REQUIRED MOUNTING DEVICES, HARDWARE AND ACCESSORIES.

CONTRACTOR TO VERIFY LIGHTING FIXTURE MOUNTING HARDWARE IS COMPATIBLE WITH APPROVED MOUNTING CONDITIONS. MOUNTING CONDITIONS MUST ALLOW FOR AIMING AND ADJUSTING OF LIGHTING FIXTURES ON SITE.

CONTRACTOR TO INCLUDE AIMING/ADJUSTING LABOR AFTER DARK AS REQUIRED FOR ANY ADJUSTABLE LIGHTING FIXTURE AND FOR EACH INDIVIDUAL LIGHTING FIXTURE HEAD OR LAMP HOLDER IN A MULTI-FIXTURE/MULTI-LAMP ASSEMBLY. LIGHTING FIXTURES TO BE AIMED/ADJUSTED PER THE DIRECTION OF OWNER, ARCHITECT AND/OR LIGHTING CONSULTANT.

CONTRACTOR TO SUPPLY ADEQUATE SUPPORT INCLUDING LADDERS, LIFTS OR OTHER EQUIPMENT REQUIRED TO ACCESS LIGHTING FIXTURES AT THE TIME OF FOCUS, INCLUDING EVENING OR NIGHT WORK AS MAY BE REQUIRED DUE TO SCHEDULE. CONFLICT OR DAYLIGHT IMPACT. AIMING/ADJUSTING LABOR SHALL BE PREPARED FOR WORK WITH COMMON HAND TOOLS TO MAKE ADJUSTMENTS AND MINOR REPAIRS DURING AIMING.

ALL COVE MOUNTED LIGHTING FIXTURES SHALL EXTEND THE FULL LENGTH OF THE COVE. CONTRACTOR TO FIELD MEASURE COVE LENGTH AND ORDER QUANTITY OF LIGHTING FIXTURES AS REQUIRED. PROVIDE COMPLETE MANUFACTURER SHOP DRAWINGS OF BUILT-IN COVE OR LINEAR LIGHTING SYSTEMS.

CONTRACTOR TO REPLACE ALL INOPERATIVE LAMPS, LED ARRAYS OR SYSTEMS AT THE END OF THE CONSTRUCTION PHASE PRIOR TO THE FOCUS AND PROGRAMMING PHASE AND AGAIN PRIOR TO OWNER OCCUPANCY OR PROJECT OPENING.

ALL POLE MOUNTED FIXTURES, POST MOUNTED FIXTURES AND BOLLARDS SHALL BE PROVIDED WITH A STRUCTURAL FOOTING AS DETAILED ELSEWHERE IN THE DRAWINGS. FOOTING SIZE TO BE PROVIDED BY STRUCTURAL ENGINEER. REFERENCE FIXTURE SCHEDULE AND DETAILS FOR MORE INFORMATION.

10. ALL EXIT SIGNS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE LOCAL FIRE PREVENTION CODE AUTHORITY. THE ONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NECESSARY HARDWARE SUCH THAT ALL EXIT SIGNS ARE INSTALLED IN AN APPROVED VISIBLE LOCATION. THE CONTRACTOR SHALL VERIFY CHEVRONS AND NUMBER OF FACES PER EXIT SIGN WITH ARCHITECTURAL REFLECTED CEILING PLAN(S). ANY DISCREPANCIES BETWEEN EXIT SIGNS DEPICTED ON ARCHITECTURAL AND ELECTRICAL PLANS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT PRIOR TO ORDERING EXIT SIGNS.

C. SUBMITTALS AND SUBSTITUTIONS:

CONTRACTOR TO SUBMIT FOR APPROVAL ON THE PRODUCTS THEY INTEND TO FURNISH WITHIN TEN (10) DAYS OF AWARD OF CONTRACT. FAILURE TO SUBMIT WITHIN DEADLINE CONSTITUTES A GUARANTEE THAT ONLY THE BASE SPECIFIED PRODUCTS WILL BE SUPPLIED AND THAT NO OTHER PRODUCTS, WHETHER LISTED AS ALTERNATES OR NOT, WILL BE CONSIDERED.

CONTRACTOR TO PROVIDE A SUBMITTAL/SHOP DRAWING SUBMITTAL FOR EACH LIGHTING FIXTURE TYPE INCLUDING ACCESSORIES, BALLAST(S), POWER SUPPLIES, DRIVER(S) TRANSFORMER(S), AND INTEGRAL EMERGENCY BATTERIES AND TEST SWITCHES. ANY LIGHTING FIXTURE SUBMITTAL PROVIDED WITHOUT SPECIFIC LIGHTING FIXTURE'S ACCESSORIES, BALLAST, POWER SUPPLY, DRIVER, TRANSFORMER OR BATTERY INFORMATION SHALL BE REJECTED AS INCOMPLETE.

SUBSTITUTIONS OF THE SPECIFIED PRODUCTS ARE STRICTLY PROHIBITED - UNLESS APPROVED AS STATED HEREIN. LIGHTING FIXTURE SUBSTITUTIONS SHALL BE FORMALLY PRESENTED TO THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT, BY APPOINTMENT ONLY, AT LEAST TEN (10) WORKING DAYS PRIOR TO BID TIME. THE SUBMITTAL MATERIAL SHALL INCLUDE THE

a. A COMPLETE AND OPERATING SAMPLE, WIRED FOR 120V OPERATION, WITH LAMP, CORD AND PLUG

A COMPLETE PHOTOMETRIC REPORT. FOR THE PROPOSED SUBSTITUTE PRODUCT, USING THE SPECIFIED LAMP OR LED TYPE AND WATTAGE, INCLUDING TABULATED CANDLEPOWER VALUES, COEFFICIENT OF UTILIZATION, AND AN ISO-FOOT-CANDLE DIAGRAM, PRORATED DATA WILL NOT BE ACCEPTABLE. THE PHOTOMETRIC REPORT MUST BE DONE IN ACCORDANCE WITH PUBLISHED I.E.S. TESTING PROCEDURES AND CERTIFIED BY A REGISTERED ELECTRICAL ENGINEER.

A CURRENT ORIGINAL CATALOG DATA SHEET WITH LIGHTING FIXTURE CATALOG NUMBERS. MODIFIED DATA SHEETS WILL

d. A SIGNED COPY OF THE "SUBSTITUTION COMPLIANCE FORM", LOCATED IN THE DIVISION 1 SPECIFICATION, STATING THAT IF THE PROPOSED SUBSTITUTION IS ACCEPTED, THE PROJECT SCHEDULE WILL NOT BE NEGATIVELY AFFECTED. IF THE COMPLETION OF THE PROJECT IS DELAYED BECAUSE OF THE APPROVED SUBSTITUTION, THE CONTRACTOR WILL BE RESPONSIBLE FOR PAYMENT OF ANY ESTABLISHED LIQUIDATED DAMAGES.

FOR SPECIFIC INTERIOR FIXTURE SUBSTITUTIONS, WHEN DIRECTED BY THE ELECTRICAL ENGINEER AND/OR LIGHTING CONSULTANT, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE SPECIFIC INTERIOR AREA. IF THE SUBSTITUTED FIXTURE IS AN EMERGENCY FIXTURE. THE REPORT SHALL BE RUN IN BOTH NORMAL AND EMERGENCY MODES. THIS REPORT SHALL BE CONFIGURED WITH SPECIFIC CONSTRAINTS, AS DIRECTED BY THE ENGINEER OF RECORD. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO OR BETTER THAN THE LIGHTING LEVELS OF THE SPECIFIED PRODUCT.

FOR ALL EXTERIOR FIXTURE SUBSTITUTIONS, A POINT-BY-POINT SCALED COMPUTER PRINTOUT SHALL BE PROVIDED VERIFYING THE ILLUMINATION LEVELS FOR THE ENTIRE SITE PLAN BASED ON USING THE PROPOSED ALTERNATIVE FIXTURES. THE REPORT MUST SHOW THAT THE SUBSTITUTED FIXTURE PROVIDES PERFORMANCE EQUAL TO, OR BETTER THAN THE LIGHTING LEVELS AND UNIFORMITY RATIOS (MAX:MIN AND AVG:MIN) OF THE SPECIFIED PRODUCT. THIS REPORT SHALL BE CONFIGURED WITH THE FOLLOWING CONSTRAINTS.

THE SPACING INCREMENT OR POINTS ON THE VERIFICATION REPORT SHALL NOT EXCEED TEN (10) FEET IN EITHER

ii. THE PHOTOMETRIC CALCULATION SHALL BE BASED ON PROVIDING MAINTAINED FOOT-CANDLE LEVELS USING MEAN LAMP LUMENS AND A LIGHT LOSS FACTOR, AS DIRECTED BY THE ENGINEER OF RECORD.

iii THE PHOTOMETRIC CALCULATION SHALL SHOW ANY ADDITIONAL ENERGY AND/OR ENERGY COSTS. FOR A TEN YEAR PERIOD, AS COMPARED TO THE ORIGINALLY SPECIFIED ITEM. THE TOTAL COSTS FOR THESE EXPENSES WILL BE DEDUCTED FROM THE CONTRACT COST.

DURING THE BIDDING PROCESS, THE CONTRACTOR SHALL REFER TO THE LIGHTING FIXTURE SCHEDULES ON THE ARCHITECTURAL PLANS (IF PROVIDED ON PROJECT), LIGHTING DESIGN PLANS/SPECIFICATIONS (IF PROVIDED ON PROJECT), AND THE ELECTRICAL PLANS. ANY DISCREPANCIES BETWEEN THEM INCLUDING, BUT NOT LIMITED TO, PART NUMBERS AND FIXTURE DESCRIPTIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT, ELECTRICAL ENGINEER, AND LIGHTING DESIGNER WITH PRE-BID REI(S). WHERE DISCREPANCIES ARE DISCOVERED WHEN THERE IS INSUFFICIENT TIME TO ISSUE PRE-BID REI(S). THE BASE BID SHALL INCORPORATE THE MOST COSTLY VERSION OF THE DISCREPANCY AND SHALL BE MEMORIALIZED IN AN RE OR AS A BID CLARIFICATION. PROVIDING A VOLUNTARY DEDUCTIVE ALTERNATE BID CLARIFYING FIXTURE SCHEDULE DISCREPANCIES IS ALSO AN ACCEPTABLE FORM OF DISCREPANCY DOCUMENTATION.

5. FIXTURE FINISHES:

L FIXTURE FINISHES AND COLORS. UNLESS NOTED AS PREMIUM OR CUSTOM. SHALL BE SELECTED FROM THE MANUFACTURERS STANDARD COLOR OPTIONS AS LISTED ON THE FIXTURE SPECIFICATION SHEET. STANDARD FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.

ALL FIXTURES INDICATED WITH A PREMIUM OR CUSTOM COLOR SHALL BE ASSIGNED A CUSTOM COLOR REFERENCE NUMBER (SUCH AS RAL#) OR PROVIDE FIVE (5) PAINT CHIPS FOR MANUFACTURER TO USE TO MATCH COLOR. PREMIUM OR CUSTOM FINISH SHALL BE SELECTED BY THE ARCHITECT, INTERIOR DESIGNER OR OWNER. THIS DIRECTION WILL BE PROVIDED IN THE SHOP DRAWING REVIEW PROCESS.

6 THE LIGHTING FIXTURE MODEL NUMBER MAY INDICATE A FIXTURE OPTION THAT THE CONTRACTOR MUST IDENTIFY PRIOR TO ORDERING/PROVIDING SUBMITTALS, INCLUDING, BUT NOT LIMITED TO: VOLTAGE, MOUNTING CONDITION/HARDWARE, FINISH, DIMMING REQUIREMENTS/BALLAST INFORMATION. GENERALLY, CONTRACTOR-SELECTED OPTIONS ARE DENOTED IN THE PART NUMBER WITH BRACKETS EX: [VOLTS?]

a. CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ALL HANGERS. CLIPS AND NECESSARY HARDWARE O INSTALL THE FIXTURE IN THE ENVIRONMENT AS SHOWN ON THE ARCHITECTURAL PLANS. ALL FIXTURES SHALL BE PROVIDED WITH ALL REQUIRED STRUCTURAL SUPPORTS AS REQUIRED BY THE CURRENTLY ADOPTED CODES.

h VOLTAGES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ORDERING - SEE ELECTRICAL DRAWINGS FOR BRANCH CIRCUIT INFORMATION. IT IS POSSIBLE THAT FIXTURES WILL BE REQUIRED IN VARIOUS VOLTAGES.

7. "NO KNOWN EQUAL" LIGHTING FIXTURE PRICING/BIDDING NOTES:

a EACH FIXTURE IDENTIFIED AS "NO KNOWN EQUAL" ON THIS PROJECT SHALL BE BID IN A "LINE ITEM" FORMAT. A PER UNIT MATERIAL COST SHALL BE PROVIDED FOR EACH "NO KNOWN EQUAL" FIXTURE. THIS PRICE SHALL INCLUDE LAMPS AS WELL AS ALL OTHER REQUIRED MATERIALS REQUIRED FOR INSTALLATION. THE FIXTURE PRICE QUOTED WILL BE UTILIZED. PRIOR TO SHOP DRAWING APPROVAL, FOR "ADDING" AND/OR "DELETING" ANY QUANTITY OF THE FIXTURE.

 $_{0.}$ A UNIT COST SHALL BE SUBMITTED FOR EACH "NO KNOWN EQUAL" FIXTURE. SUBMIT THE PRICING AS PART OF THE BID

FAILURE TO SUBMIT A LINE ITEM FOR EACH "NO KNOWN EQUAL" FIXTURE MAY RESULT IN THE REJECTION, REFUSAL, OR NON-ACCEPTANCE OF THE CONTRACTOR'S BID.

8. FIXTURES IDENTIFIED AS "NO KNOWN EQUAL - OWNER STANDARD" OR "CAMPUS STANDARD" ARE TO BE PROVIDED AS SPECIFIED, WITH SUBSTITUTIONS STRICTLY PROHIBITED. SEE ADDITIONAL NOTES FOR "NO KNOW EQUAL" BIDDING REQUIREMENTS

D. LIGHTING FIXTURE SPECIFICATIONS:

1 ALL EXTERIOR LIGHTING EQUIPMENT SHALL BE RATED FOR WET LOCATION AND THE IP RATING OF ALL EQUIPMENT, INCLUDING BALLAST, POWER SUPPLY AND TRANSFORMER ENCLOSURES SHALL CONFORM TO THE CONDITIONS IN WHICH THE LIGHTING

2. ALL BALLASTS, POWER SUPPLIES, DRIVERS AND/OR TRANSFORMERS THAT ARE REMOTELY LOCATED SHALL BE INSTALLED AS NEAR TO THE LIGHTING FIXTURE(S) AS POSSIBLE, HIDDEN FROM PUBLIC VIEW IN AN ACCESSIBLE COMPARTMENT THAT IS WELL VENTILATED. CONTRACTOR TO COORDINATE LOCATION(S) WITH ARCHITECT PRIOR TO ROUGH-IN.

3. ALL TRANSFORMERS SHALL BE FUSED ON THE SECONDARY SIDE.

4. COLOR FILTERS SHALL BE GLASS OR DICHROIC UNLESS OTHERWISE INDICATED ON DRAWINGS.

5. CONTRACTOR TO PROVIDE 20% ADDITIONAL COLOR FILTERS FOR EACH COLOR AND SIZE.

6. CONTRACTOR TO VERIFY THAT ALL LIGHTING FIXTURES SPECIFIED WITH A COLOR FILTER ARE SUPPLIED WITH ANY AND ALL ATTACHMENT DEVICES FOR THE FILTER.

ALL TRACK LIGHTING FIXTURES SHALL BE PROVIDED WITH THE APPROPRIATE TRACK SYSTEM WHICH SHALL INCLUDE ALL MISCELLANEOUS COMPONENTS REQUIRED, AS WELL A ANY REQUIRED CIRCUIT LIMITERS FOR A COMPLETE INSTALLATION. TRACK LENGTH(S) SHALL BE PER DRAWINGS.

E. DRIVERS / TRANSFORMERS:

[OPTION?] IN FIXTURE MODEL NUMBER INDICATE THAT THE FIXTURE DRIVER TYPE AND QUANTITY MUST BE VERIFIED BY THE CONTRACTOR USING FIXTURE CALLOUT INFORMATION AND FIXTURE SWITCHING CONFIGURATION INFORMATION.

2. CONTINUOUS DIMMING AND CONTROLLABLE LED:

a. PROVIDE CONTROLLABLE LED DIMMING DRIVERS (INTEGRAL OR REMOTE) WITH POWER FACTOR GREATER THAN 0.85 AND MAXIMUM THD OF 20% AT FULL LOAD.

b. PRIOR TO BID CONTRACTOR TO VERIFY DRIVER COMPATIBILITY WITH DIMMERS, DIMMING CONTROL SYSTEM(S) AND DISTRIBUTED LIGHTING CONTROL SYSTEM(S) WITH RESPECTIVE LIGHTING MANUFACTURER(S) AND LIGHTING/DIMMING CONTROL SYSTEM MANUFACTURERS. IF COMPATIBILITY DOCUMENTATION IS UNAVAILABLE FOR A GIVEN LED FIXTURE/LIGHTING CONTROL SYSTEM COMBINATION. CONTRACTOR SHALL INCLUDE COSTS IN THE BASE BID FOR RESPECTIVE LIGHTING MANUFACTURER AND LIGHTING CONTROLS MANUFACTURER TO TEST/WARRANT COMPATIBILITY OF

c. CONTINUOUS LED DIMMING DRIVERS SHALL BE AT MINIMUM 4-WIRE 0-10V 10% DIMMING (HOT, NEUTRAL, DIM+, DIM-).

F. EMERGENCY FIXTURES / BATTERY PACKS:

1. LIGHT FIXTURES INDICATED AS EMERGENCY SHALL BE IDENTIFIED / PROVIDED AS FOLLOWS: INTEGRAL BATTERY PACK

> FIXTURE CONNECTED TO CIRCUIT "3", CONTROL SWITCHLEG "a" - WITH THE BATTERY CHARGING LEAD CONNECTED TO A CONSTANT HOT CIRCUIT "3".

3NL/3EB FIXTURE CONNECTED TO A CONSTANT HOT CIRCUIT "#3". BATTERY CHARGING LEAD CONNECTED TO A REMOTE BACK-UP SOURCE

ROUTED THROUGH A U.L. LISTED TRANSFER RELAY (LC & D #GR-2001E/S) FOR SWITCHED CONTROLS OR A U.L. LISTED TRANSFER SWITCH (BODINE #GTD SERIES DEVICE) FOR DIMMING CONTROLS. CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". SEE DISTRIBUTED LIGHTING CONTROL SPECIFICATIONS FOR DEVICE REQUIREMENTS WHEN CONTROLLED BY OCCUPANCY SENSORS.

FIXTURE CONNECTED TO A CONSTANT HOT EMERGENCY CIRCUIT "3". REMOTE BACK-UP SOURCE (EM)

ALL REMOTE BACK UP SOURCE (EM) FIXTURES SHALL BE PROVIDED WITH AN IN LINE FUSE. PROVIDE

ADDITIONAL LABELING TO INDICATE FIXTURE IS PROTECTED BY A FUSE.

a. PROVIDE INTEGRAL TEST SWITCH / CHARGE LIGHT OPTION FOR ALL EMERGENCY BATTERY PACKS INSTALLED IN LIGHT

b. ALL RECESSED DOWNLIGHTS SUPPLIED WITH A BATTERY PACK SHALL BE PROVIDED WITH AN INTEGRAL COMBINATION TEST SWITCH / CHARGING INDICATOR LIGHT- MOUNTED INSIDE THE REFLECTOR. REMOTE TEST SWITCH / CHARGING LIGHTS ARE NOT ALLOWED. THE TEST SWITCH / CHARGING INDICATOR LIGHT SHALL BE SECURELY ATTACHED TO THE REFLECTOR WITH 18" OF SLACK LEADS, FOR EASY REMOVAL OF THE REFLECTOR ASSEMBLY.

c. ALL BATTERY PACKS AND ALL COMBINATION LED BATTERY PACK/EMERGENCY DRIVERS SHALL BE UL924 LISTED.

d. PRIOR TO BID, CONTRACTOR SHALL VERIFY WITH FIXTURE MANUFACTURER(S) THAT EMERGENCY BATTERY PACKS ARE MANUFACTURED TO BE INTEGRAL TO FIXTURE HOUSINGS.

e. SHOULD THE SPECIFIED LED EMERGENCY BATTERY PACK(S) NOT FIT WITHIN A GIVEN FIXTURE(S) OR SHOULD THE FIXTURE NOT BE MANUFACTURED TO ACCOMMODATE A BATTERY PACK. CONTRACTOR SHALL INCLUDE ALL COSTS IN BASE BID TO LOCATE/CONNECT SELF-TESTING MINI INVERTER(S) (IOTA #ILS SERIES OF BODINE#ELI-S-IWATT?1) REMOTELY FROM THE FIXTURE(S) IN THE NEAREST ELECTRICAL ROOM OR TO LOCATE EMERGENCY BATTERY PACK(S) REMOTELY FROM THE FIXTURE ABOVE THE NEAREST ACCESSIBLE CEILING.

f. LED BATTERY PACKS SHALL PROVIDE A MINIMUM OF 90 MINUTES OF EMERGENCY ILLUMINATION, AND SHALL BE RATED AT A MINIMUM OF 10 WATTS, OR AS SPECIFIED. WHERE A FIXTURE TYPE IS UNAVAILABLE WITH A 10W BATTERY PACK OR WHERE THE WATTAGE IS NOT SPECIFIED ON THE PLANS, INCLUDE ALL COST IN BASE BID TO PROVIDE THE HIGHEST WATTAGE AVAILABLE ON THE FIXTURE CUTSHEET. ANY LISTED EQUAL FIXTURE OR ANY SUBSTITUTION OFFERED BY THE CONTRACTOR MUST ALSO HAVE BATTERY PACKS CAPABLE OF PRODUCING THE SAME OR MORE LUMENS WHEN ON BATTERY AS OUTLINED ABOVE. ACCEPTABLE

TO MAINTAIN UL LISTING OF LED FIXTURE, FIXTURE MANUFACTURER(S) SHALL INSTALL LED EMERGENCY BATTERY PACKS AT THE FACTORY AND OBTAIN A UL LISTING FOR THE FIXTURE WITH EMERGENCY BATTERY PACK. FIELD-INSTALLATION OF LED EMERGENCY BATTERY PACK(S) IS PROHIBITED.

PROVIDE DAMP LOCATION VERSION IN ALL DAMP LABEL h. INSTALLATIONS.

