

MIXED USE PROJECT

32513 MISSION BLVD., HAYWARD, CA 94544



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GENERAL NOTES

- MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE MINIMUM REQUIREMENTS OF THE CALIFORNIA BUILDING CODE, 2019 EDITION, INTERNATIONAL BUILDING CODE, 2018 EDITION, CALIFORNIA MECHANICAL CODE 2019 EDITION (2018 UMC) CALIFORNIA PLUMBING CODE 2019 EDITION (2018 UPC) CALIFORNIA ELECTRICAL CODE 2019 EDITION (2017 NEC) CALIFORNIA FIRE CODE 2019 EDITION CALIFORNIA ENERGY CODE 2019 EDITION CALIFORNIA GREEN BUILDING CODE 2019 EDITION AS AMENDED BY STATE OF CALIFORNIA AND THE CITY OF HAYWARD.
- THE CONTRACTOR SHALL VERIFY EXISTING JOB CONDITIONS, REVIEW ALL DRAWINGS AND SPECIFICATIONS AND VERIFY DIMENSIONS PRIOR TO CONSTRUCTION. ANY DEVIATIONS BETWEEN DOCUMENTS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID PROPOSAL.
- THE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR PROJECT SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY.
- THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR LOCATING EXISTING UTILITIES, AS WELL AS PROTECTING, AND/OR REPAIRS IF NEEDED DUE TO DAMAGE WHILE ON SITE.
- IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ADEQUATE BRACING, SHORING, AND SUPPORT OF ALL TEMPORARY CONSTRUCTION, EXISTING CONSTRUCTION, AND PARTIALLY COMPLETED PORTIONS OF THE WORK; FOR ALL LOADS DURING CONSTRUCTION INCLUDING WIND AND EARTHQUAKE FORCES, AND UNBALANCED FORCES DUE TO CONSTRUCTION SEQUENCES. SUCH BRACING, SHORING, AND SUPPORT SHALL INSURE THE SAFETY OF THE STRUCTURE AND ALL PERSONS WHO COME IN CONTACT WITH THE PROJECT.
- DIMENSIONS SHOWN ARE TYPICALLY TO THE FACE OF STUD FRAMING OR TO THE FACE OF CONCRETE UNLESS OTHERWISE NOTED.

PROJECT DATA

ADDRESS : 32513 MISSION BLVD. HAYWARD, CA 94544
 APN : 078G-2760-009-07 & 078G-2760-021
 ZONING : CN
 EXISTING USE : RESTAURANT
 NEW USE : MIXED USE
 OCCUPANCY TYPE : R-2, B, S-2
 CONSTRUCTION TYPE : V-A
 FIRE SPRINKLER : YES
 LOT AREA: 20,875 sf
 GROSS RESIDENTIAL SQUARE FOOTAGE:

UNIT	CONDITIONED SPACE	BALCONIES
2.1	= 830	= 38
3.1	= 906	= 38
2.2, 3.2	1304 x 2 = 2608	72 x 2 = 144
2.3, 3.3	1496 x 2 = 2992	144 x 2 = 288
2.4, 3.4	1378 x 2 = 2756	70 x 2 = 140
2.5, 3.5	1304 x 2 = 2608	72 x 2 = 144
2.6, 3.6	1304 x 2 = 2608	72 x 2 = 144
2.7, 3.7	1337 x 2 = 2674	70 x 2 = 140
2ND FLOOR UNITS TOTAL = 8953 sf		
3RD FLOOR UNITS TOTAL = 9029 sf		
2ND FLOOR AREA 10,747 sf		BALCONIES 538
3RD FLOOR AREA 10,747 sf		BALCONIES 538
TOTAL 21,494 sf		1076 sf

1ST FLOOR AREA 10,340 sf
 COMMERCIAL FLOOR AREA 853 sf

LOT COVERAGE:
 MAIN ROOF + PROJECTED BALCONIES = 11,272 sf
 COMMERCIAL ROOF DECK = 884 sf
 COVERED WALKWAY = 88 sf
 TRASH ENCLOSURE = 123 sf
 TOTAL COVERED AREA = 12,367 sf
 LOT COVERAGE = 12,367/20,875 = 59.2% < 90%

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SHEET

GENERAL NOTES
 PROJECT DATA
 VICINITY MAP
 SHEET INDEX, SYMBOLS & ABBREVIATIONS

ISSUED FOR: PLANNING APPROVAL

DATE: 7/721

SCALE: AS NOTED

DRAW: KRM

DESIGN: AJS

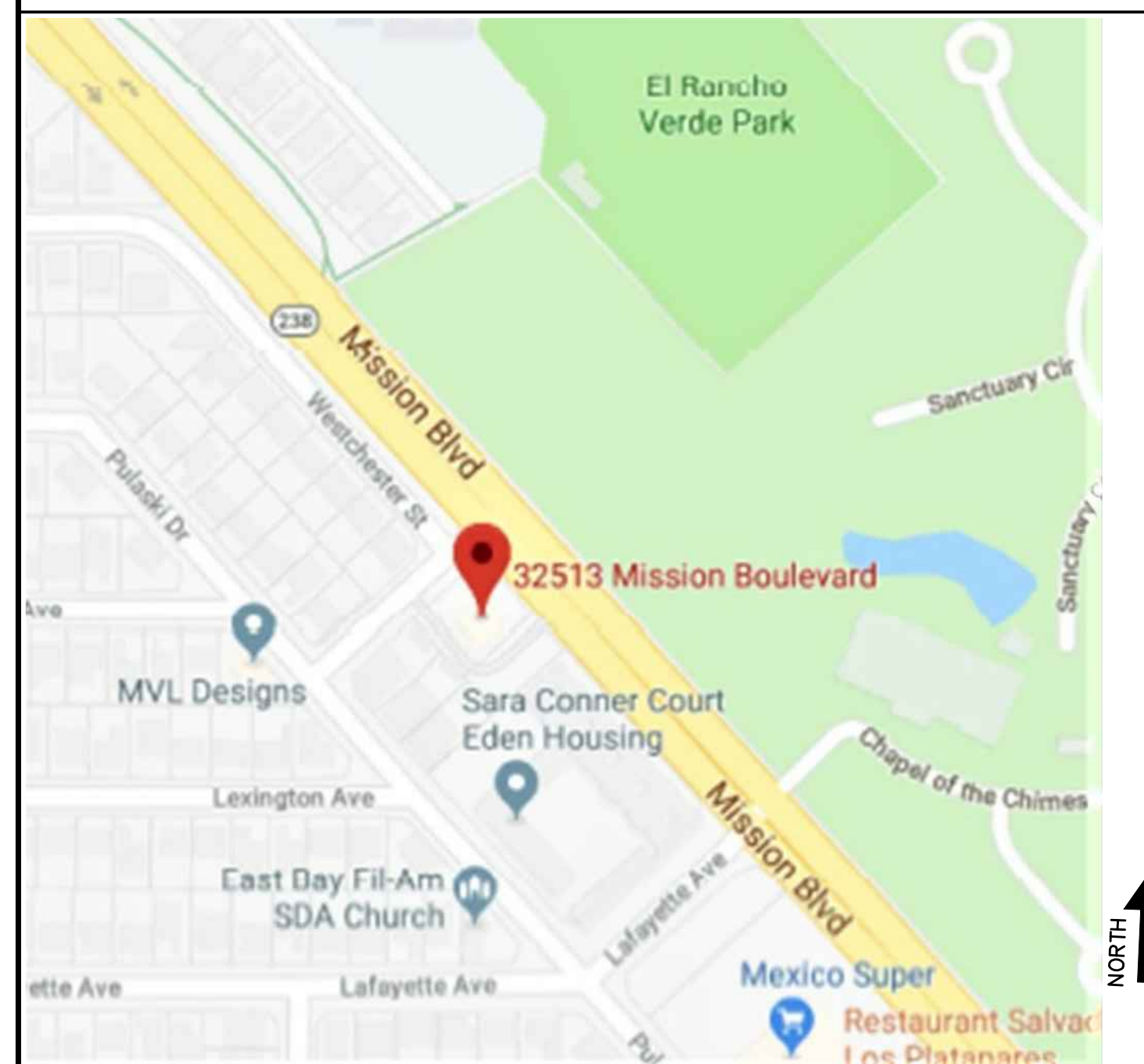
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VICINITY MAP



FIRE DEPARTMENT NOTES

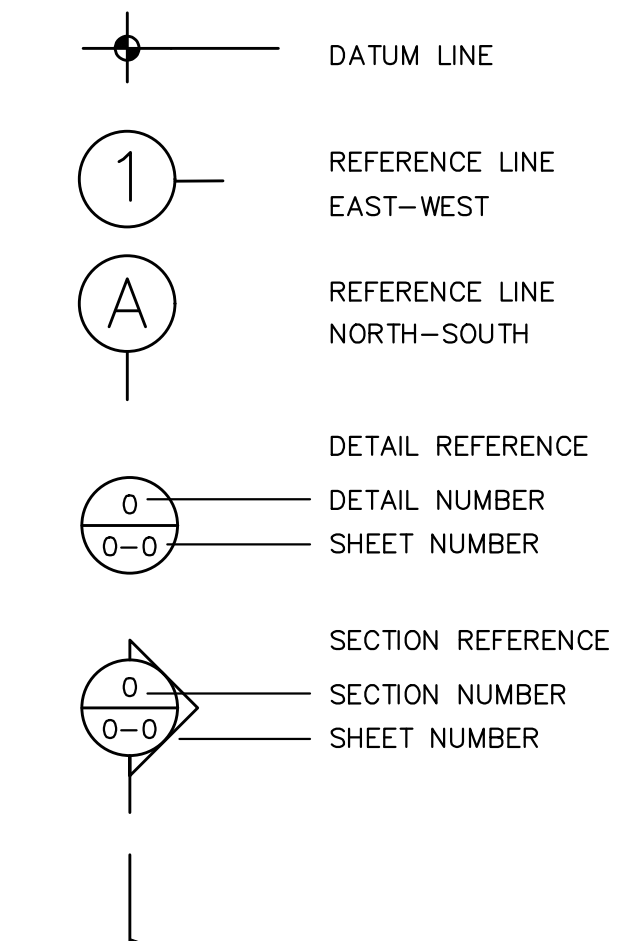
- ALL DEVELOPMENTS ON THE PARCEL ARE REQUIRED TO COMPLY WITH ALL APPLICABLE REQUIREMENTS SET FORTH IN CHAPTER 7 OF THE 2019 CALIFORNIA BUILDING CODE.
- FIRE SPRINKLERS CONFORMING TO NFPA13 STANDARDS ARE REQUIRED FOR THE NEW MIXED USE BUILDING. WATER METERS SHALL BE SIZED TO MEET FIRE SPRINKLER DEMAND REQUIREMENTS.
- ALL DRIVEWAYS AND APPROACHES ARE FIRE LANES. NO PARKING OR OTHER OBSTRUCTIONS ARE PERMITTED WITHIN THE DRIVEWAY, EXCEPT WHERE SUCH HAS BEEN APPROVED.
- IF THE PERMANENT DRIVEWAY IS NOT INSTALLED PRIOR TO THE START OF COMBUSTIBLE CONSTRUCTION, A TEMPORARY ALL-WEATHER ACCESS ROAD MEETING THE APPROVAL OF THE FIRE DEPARTMENT SHALL BE PROVIDED.
- FIRE DEPARTMENT REVIEW AND APPROVAL OF SITE AND BUILDING PLANS FOR THE NEW MIXED USE BUILDING IS REQUIRED PRIOR TO THE ISSUANCE OF BUILDING PERMITS.
- THE HAYWARD FIRE DEPARTMENT'S HAZARDOUS MATERIALS OFFICE SHALL BE NOTIFIED IMMEDIATELY AT (510) 583-4900 IF HAZARDOUS MATERIALS OR ASSOCIATED STRUCTURES ARE DISCOVERED DURING DEMOLITION OR DURING GRADING. THESE SHALL INCLUDE BUT SHALL NOT BE LIMITED TO ACTUAL/SUSPECTED HAZARDOUS MATERIALS, UNDERGROUND TANKS, OR OTHER VESSELS THAT MAY HAVE CONTAINED HAZARDOUS MATERIALS.

SCOPE OF WORK

THE PURPOSE OF THESE DESIGN DOCUMENTS IS TO CONSTRUCT ONE 1-STORY COMMERCIAL UNIT, AND A 2-STORY, 14 UNIT APARTMENTS ABOVE ENCLOSED PARKING GARAGE.

SYMBOLS & ABBREVIATIONS

(E)	EXISTING
F.O.S.	FACE OF STUD
R.O.	ROUGH OPENING
RWL	RAIN WATER LEADER
S.S.D.	SEE STRUCTURAL DRAWINGS
S.A.D.	SEE ARCHITECTURAL DRAWINGS
S.C.	SOLID CORE
SLD	SLIDING
T.O.	TOP OF
U.N.O.	UNLESS NOTED OTHERWISE
VTR	VENT THRU ROOF



PARKING ANALYSIS

NO. OF PARKING REQUIRED:
 RESIDENTIAL:
 (2) STUDIOS = 1 x 2 = 2
 (8) 2 BEDROOM = 2.1 x 8 = 16.8
 (4) 3 BEDROOM = 2.1 x 4 = 8.4
 COMMERCIAL OFFICE:
 853 SF / 200 = 4.265
 SUBTOTAL = 31.465
 BIKE PARKING CREDIT = -1
 TOTAL = 30.465 ROUNDED UP TO 31
 NO. OF PARKING PROVIDED:
 COVERED PARKING = 26
 OPEN PARKING = 5
 TOTAL = 31

MISSION BLVD.

SHEET NOTES :

1. PROTECT AND SAVE TOP SOIL DURING BUILDING PAD EXCAVATIONS AND GRADING, FOR REUSE AFTER CONSTRUCTION.
2. CONSTRUCTION RELATED ACTIVITIES SHALL OCCURE WITHIN BUILDING PAD AND HARD SURFACE AREAS SHOWN ON PLAN, IN ORDER TO MINIMIZE DISRUPTION TO EXISTING PLANTS.

LEGEND:

- (E) TO BE REMOVED
- #x (E) TREE TO BE REMOVED SEE LANDSCAPE MITIGATION PLAN.

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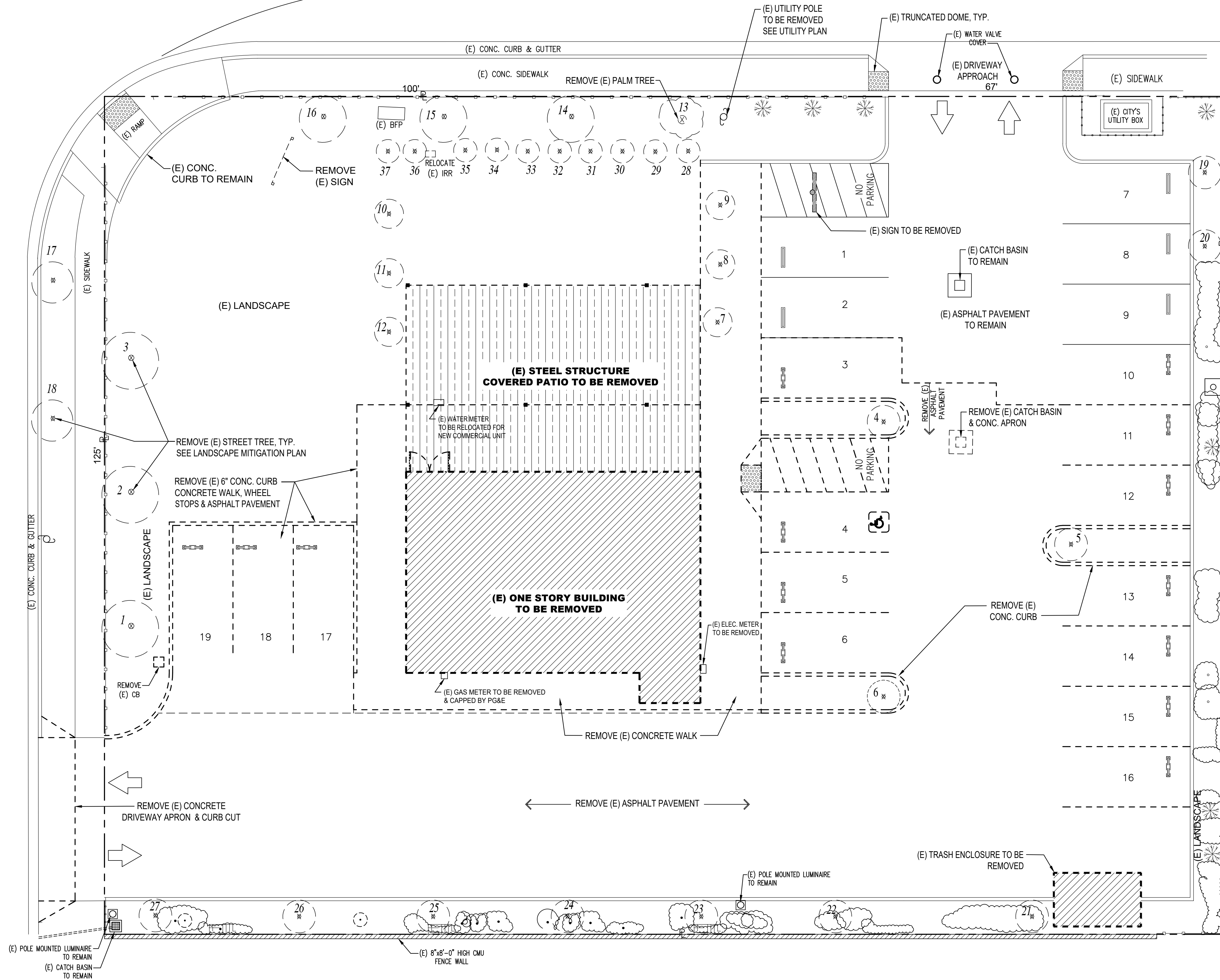
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SHEET
 SITE DEMOLITION PLAN

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SCALE:	AS NOTED
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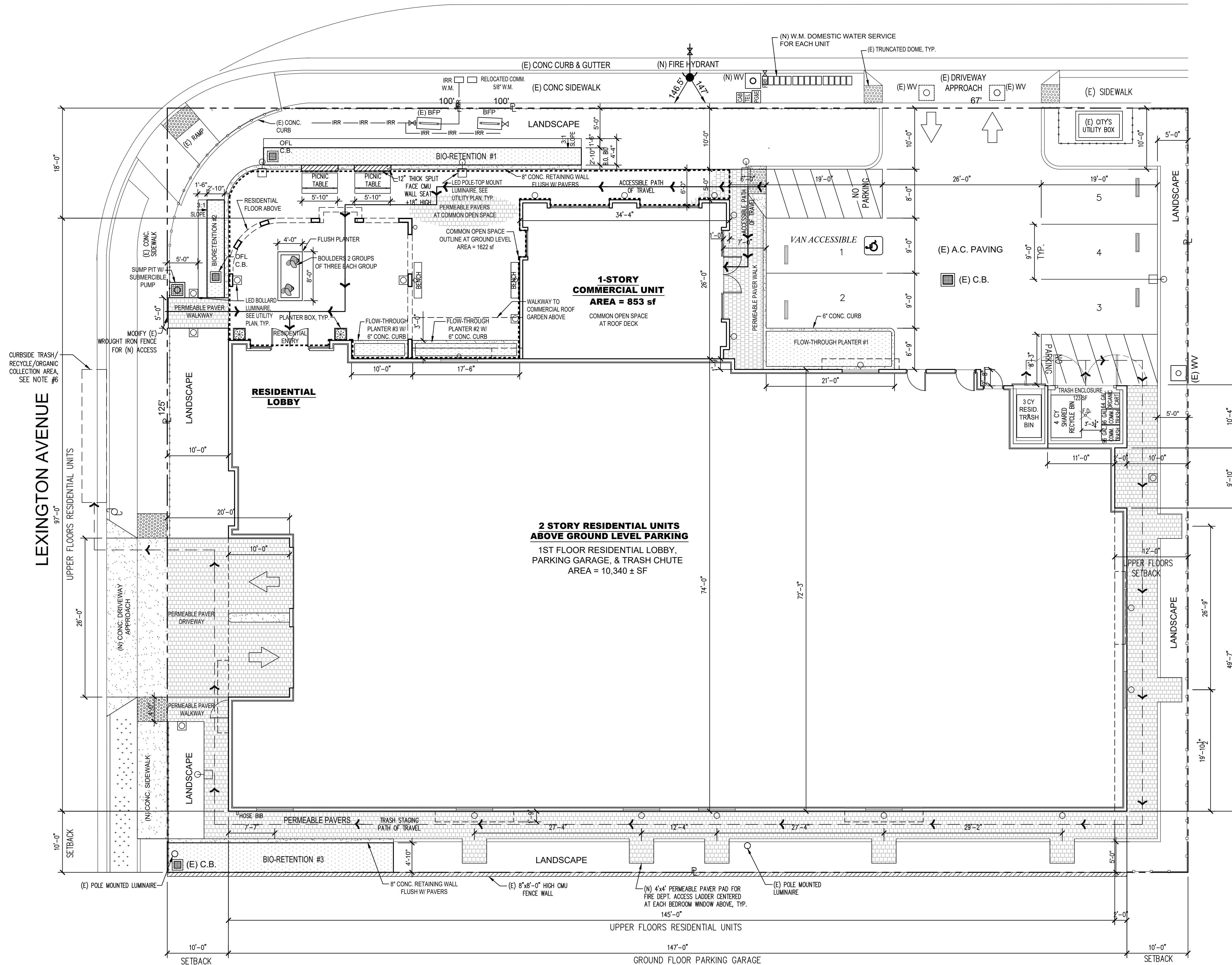


LEXINGTON AVENUE

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



MISSION BLVD.



SHEET NOTES :

- FOR SITE TOPOGRAPHY, GRADING, PAVING, DRAINAGE AND UTILITIES, SEE CIVIL DRAWINGS.
- FOR LANDSCAPE PLANTING AND MITIGATION, SEE LANDSCAPE DRAWINGS.
- PROTECT AND SAVE TOP SOIL DURING BUILDING PAD EXCAVATIONS AND GRADING, FOR REUSE AFTER CONSTRUCTION.
- CONSTRUCTION RELATED ACTIVITIES SHALL OCCUR WITHIN BUILDING PAD AND HARD SURFACE AREAS, IN ORDER TO MINIMIZE DISRUPTION TO EXISTING PLANTS.
- TRASH CONTAINER CAPACITY REQUIREMENTS:
 MULTI-FAMILY RESIDENTIAL:
 # OF DWELLING UNITS = 14
 MOVING IN/OUT FACTOR = 1.2
 14 x 1.2 x 32 = 538 GALLONS
 538 / 200 = 2.7 USE 3 CY/WEEK TRASH CONTAINER

 COMMERCIAL:
 # OF EMPLOYEES = 2
 DISPOSAL RATE = 58 POUNDS/EMPLOYEE PER WEEK FOR MEDICAL/HEALTH
 2 x 58 / 150 = 0.77 USE 1 CY/WEEK (TWO 96 GAL. CART)
 SHARED RECYCLABLES CONTAINER:
 2.70 + 0.77 = 3.47 USE 4 CY / WEEK RECYCLABLES CONTAINER
- CURBSIDE OR STREETSIDE CARTS OR BINS SHALL NOT BE PLACED EARLIER THAN 6:00 A.M. ON THE DAY BEFORE SCHEDULED COLLECTION, AND SHALL BE RETRIEVED AND REMOVED FROM PUBLIC VIEW BY MIDNIGHT ON THE DAY OF COLLECTION PER HAYWARD MUNICIPAL CODE 5-1.15.

LEGEND:

- BIO-RETENSION PLANTING AREA - SEE LANDSCAPE DRAWINGS.
- OUTLINE OF COMMON OPEN SPACE AT GROUND LEVEL. AREA = 1622 SF
- COMMERCIAL ROOF OPEN SPACE AREA = 853 SF
- TOTAL OPEN SPACE AREA = 2475 SF

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 SITE PLAN

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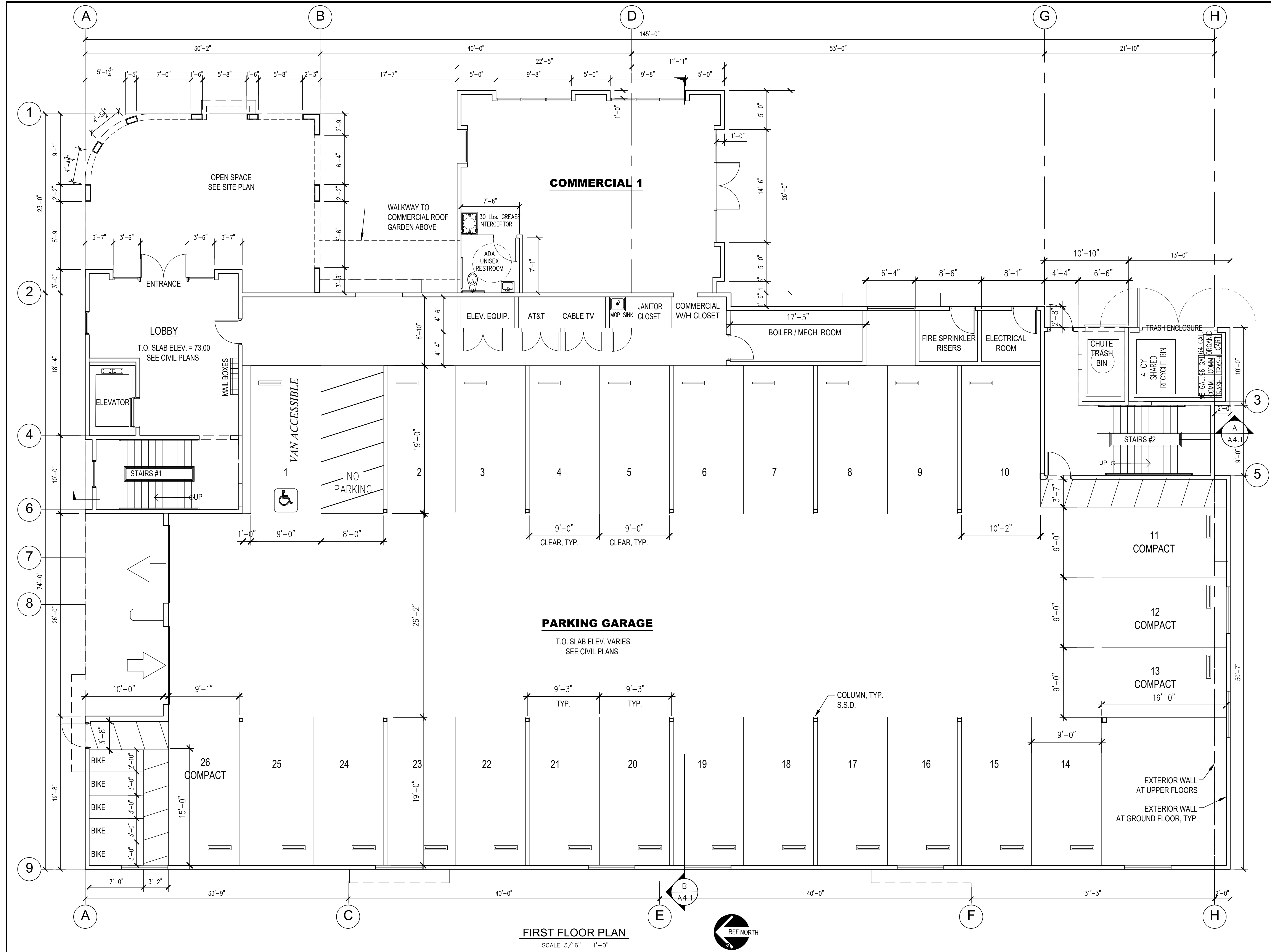
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1 SITE PLAN
 SCALE: 1/8" = 1'-0"



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



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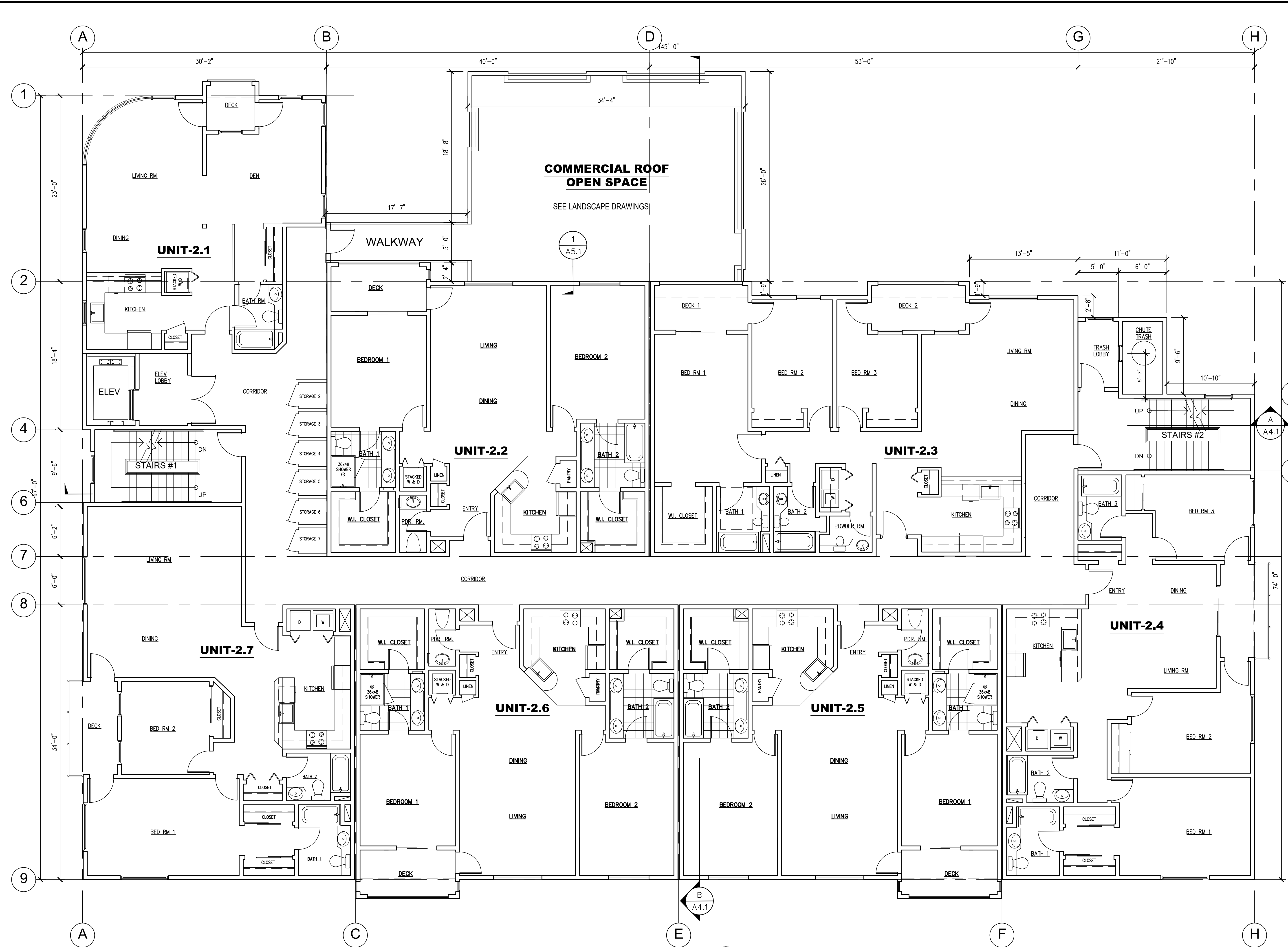
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 SECOND FLOOR PLAN

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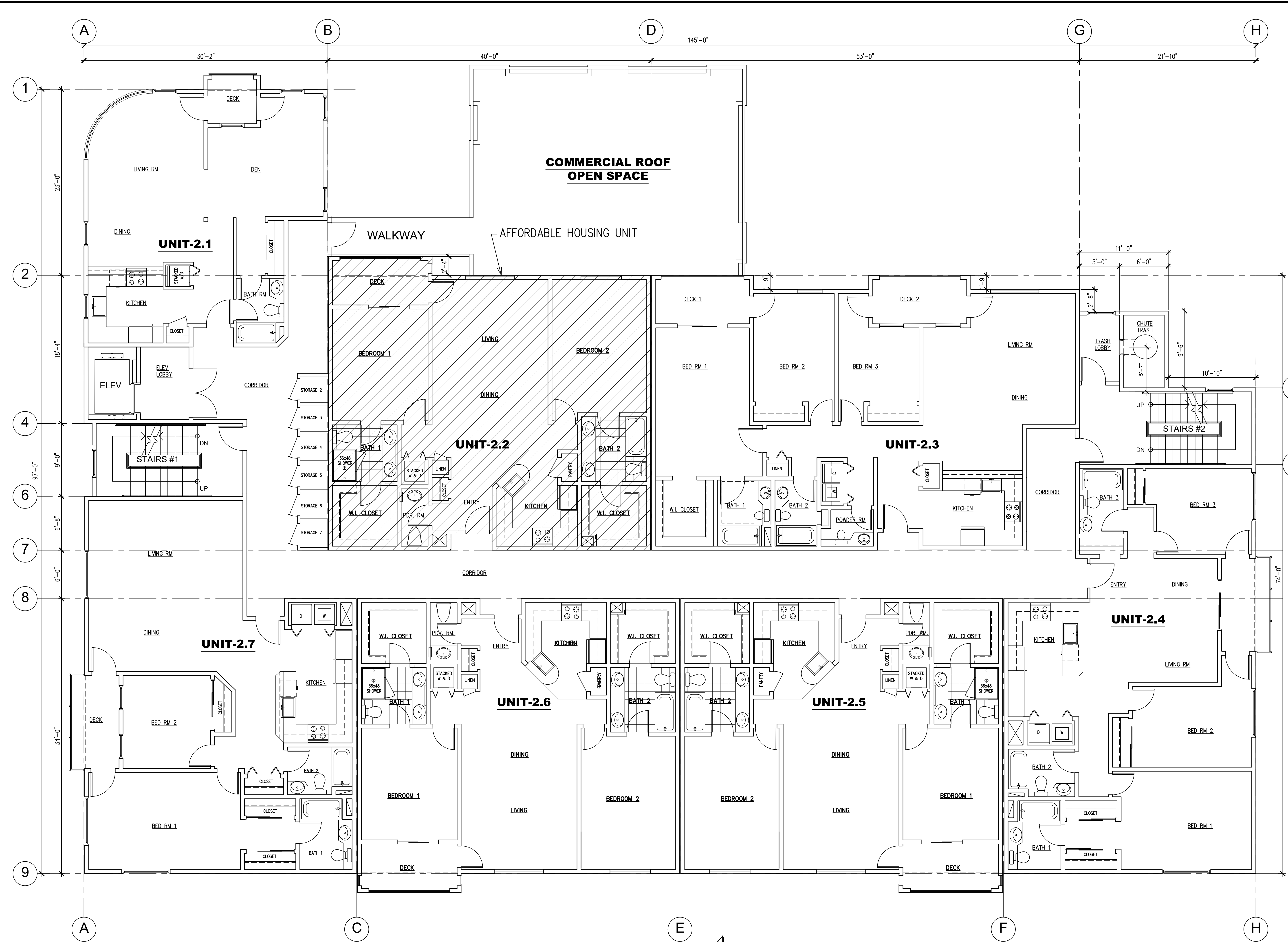
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A2.2



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

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SECOND FLOOR AHU LOCATION PLAN
 SCALE 3/16" = 1'-0"

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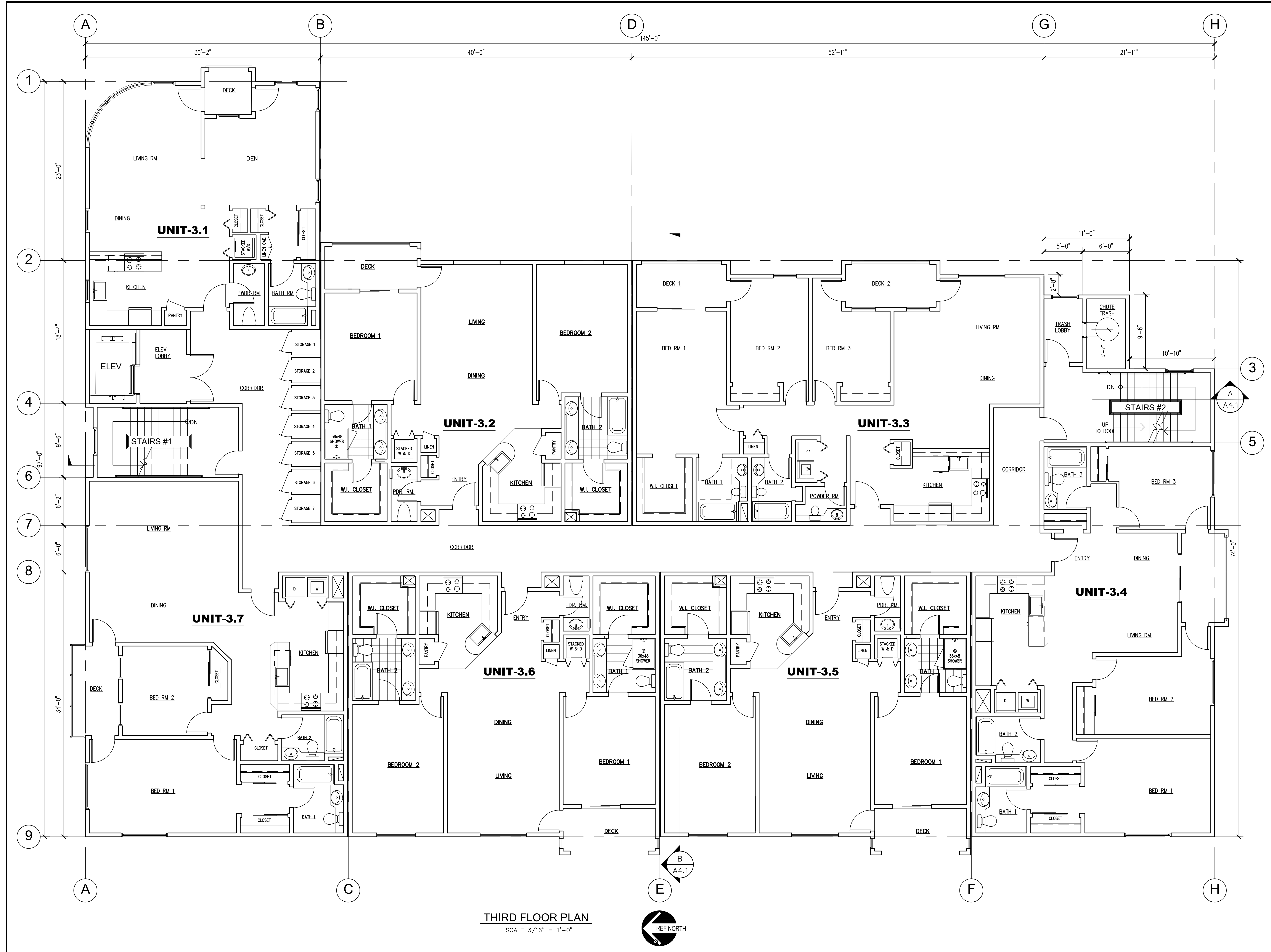
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 THIRD FLOOR PLAN

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A2.3



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



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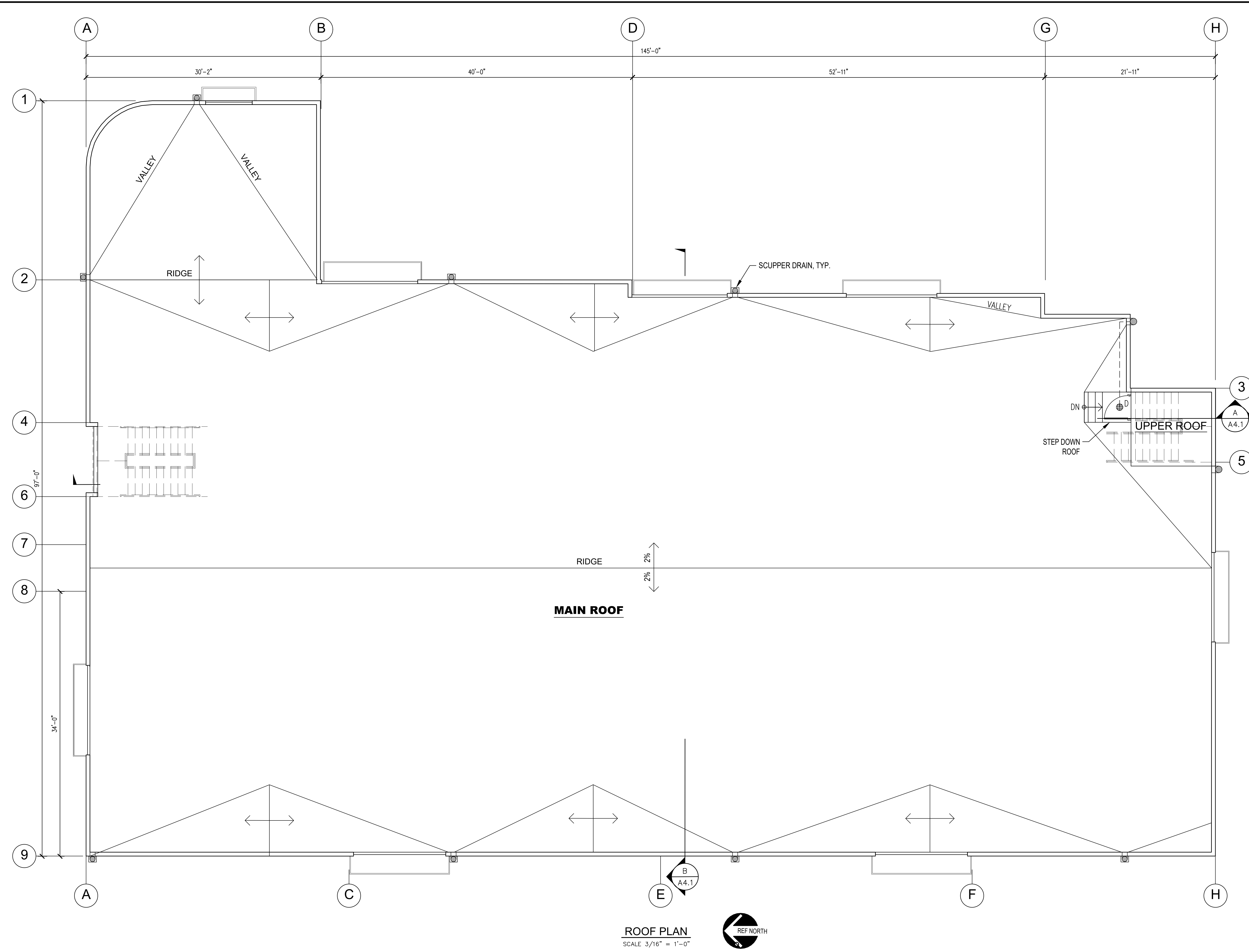
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 ROOF PLAN

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SHEET:
A2.4





NORTH ELEVATION

SCALE 3/16" = 1'-0"

ELEVATION NOTES:

- 1 HARDIE REVEAL PANEL SYSTEM, SMOOTH FINISH
- 2 HARDIE ARTISAN V-RUSTIC SIDING
- 3 CORNICE W/ ACCENT COLOR
- 4 CORRUGATED METAL SIDING W/ ACCENT COLOR
- 5 STUCCO, SAND FINISH
- 6 2x6 WESTERN RED CEDAR WOOD RAILING
- 7 2x10 WESTERN RED CEDAR TRIM BAND
- 8 WALKWAY TO COMMERCIAL ROOF

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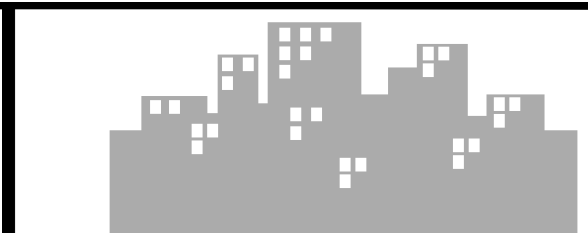
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SHEET : **A3.1**



EAST ELEVATION

SCALE 3/16" = 1'-0"



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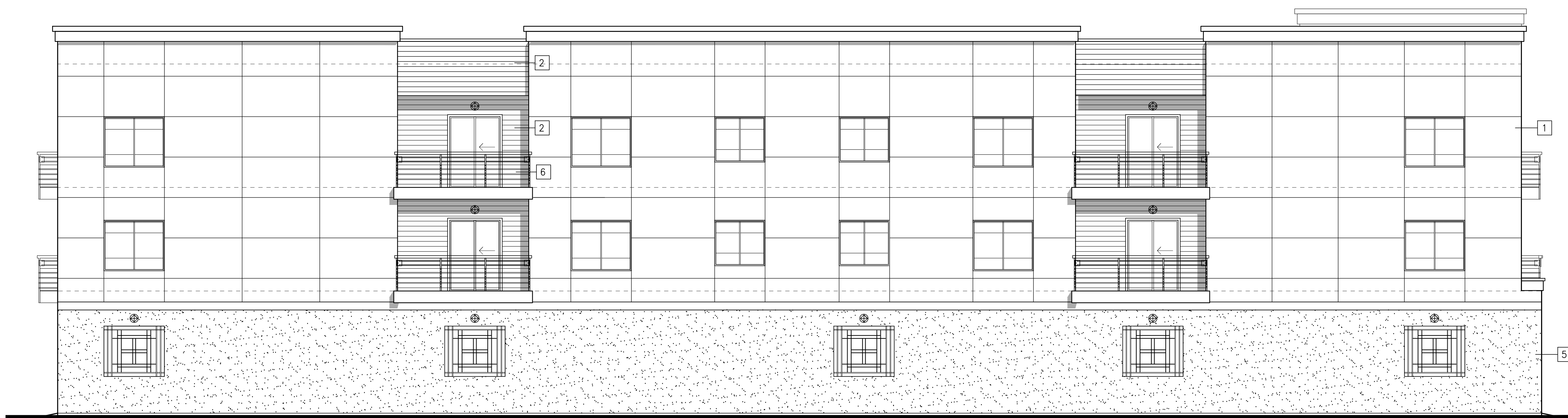
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SHEET: **A3.2**



SOUTH ELEVATION

SCALE 3/16" = 1'-0"



WEST ELEVATION

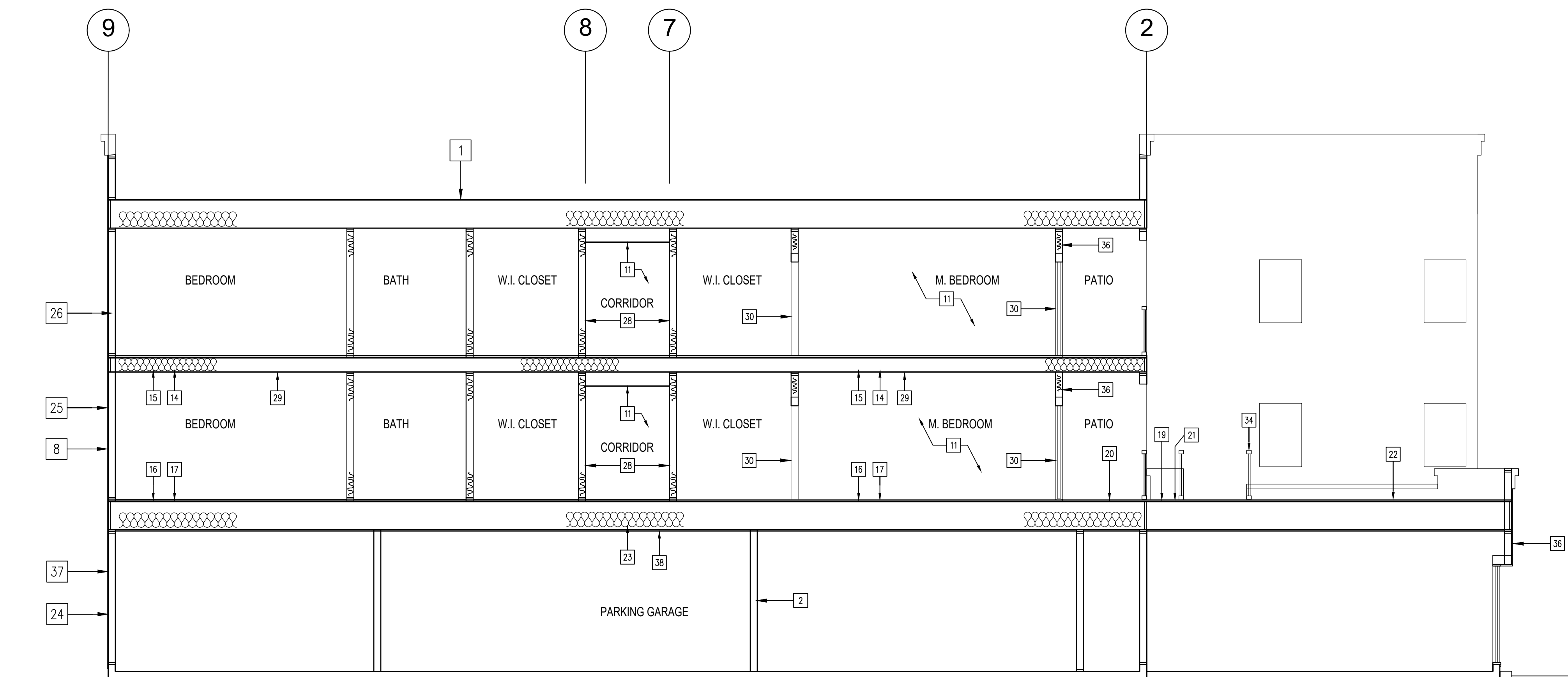
SCALE 3/16" = 1'-0"

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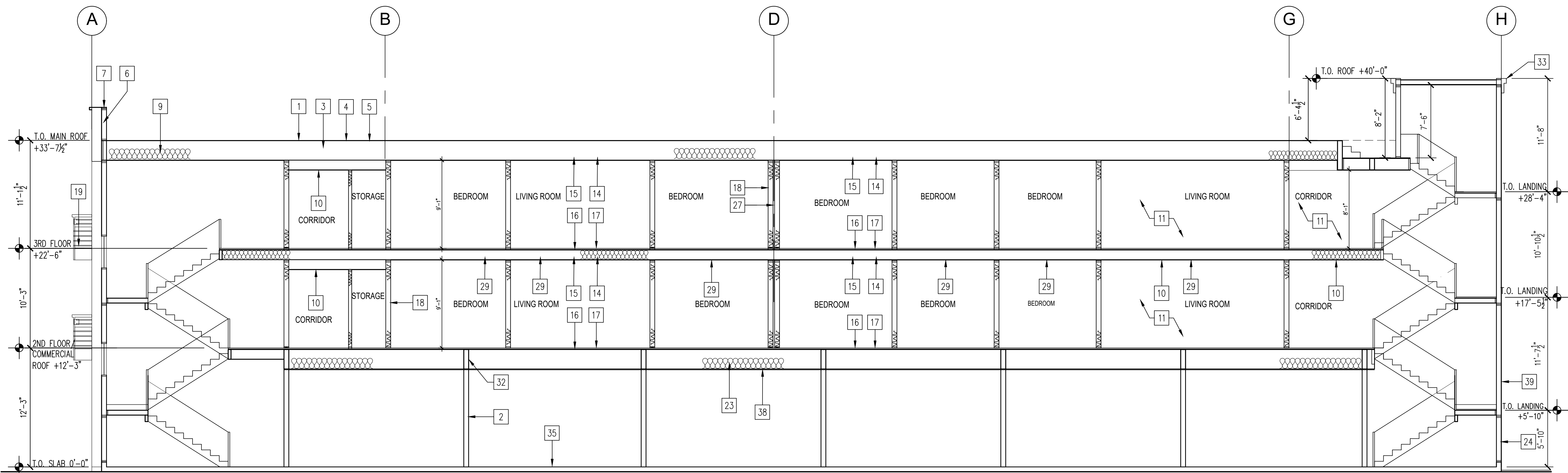
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SECTION NOTES:

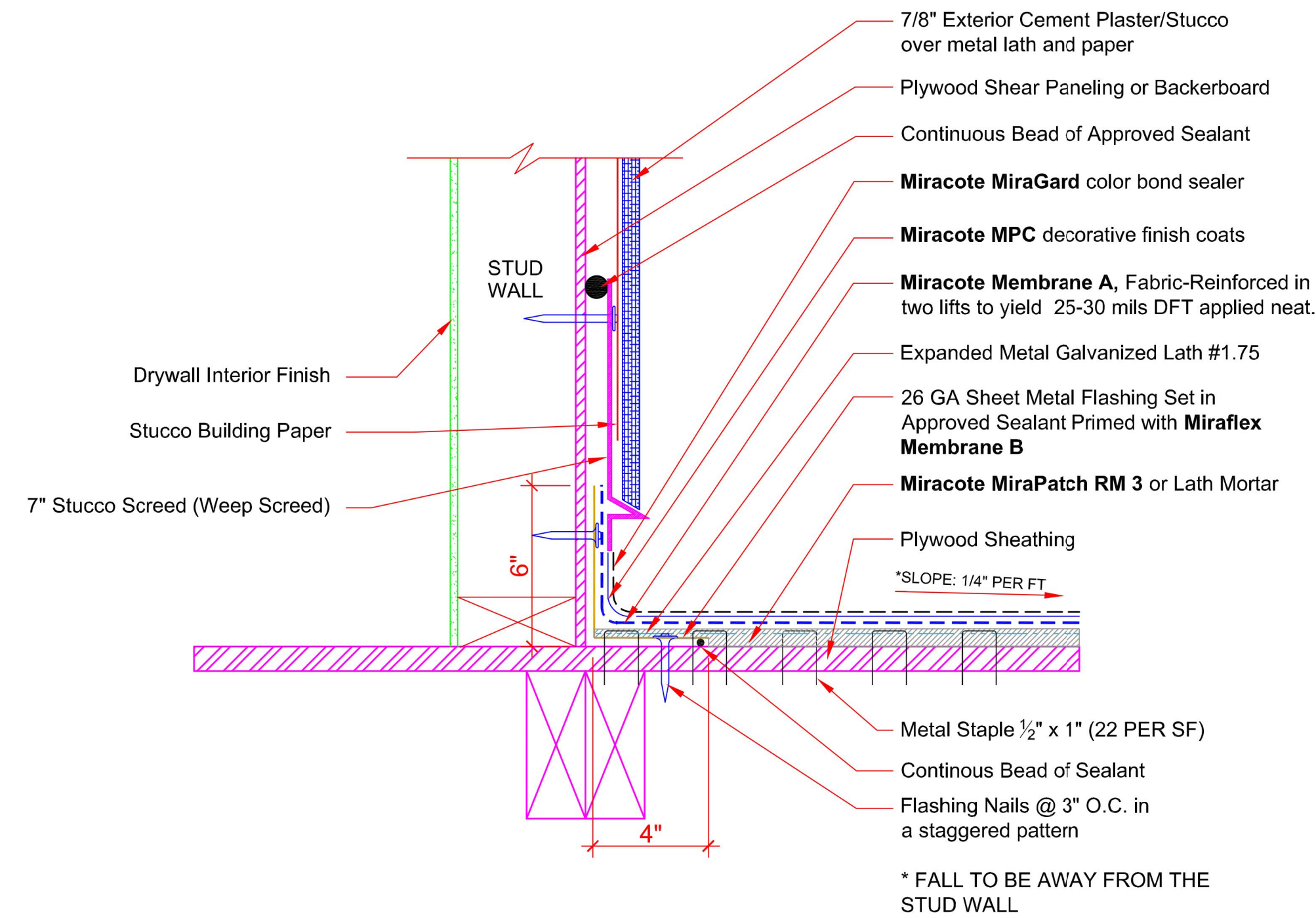
- 1 CLASS "A" SINGLE PLY FLAT ROOFING MATERIAL APPLIED OVER PLYWOOD ROOF SHEATHING, SLOPED 1/2" PER FOOT
- 2 HSS COLUMN, SEE STRUCT.
- 3 1-HR. ROOF/CEILING ASSEMBLY.
- 4 STRUCT. WOOD PANEL ROOF SHEATHING, SOLID BLOCK ALL EDGES WITH WOOD BLOCKING FOR MEMBRANE ROOFING.
- 5 PRE-FABRICATED ROOF TRUSSES, PROVIDE SOLID BLOCKING FOR ROOF SHEATHING WITH MEMBRANE ROOFING.
- 6 WOOD STUD PARAPET WALL, CONSTRUCTED AS PART OF THE ROOF TRUSS, 1-HOUR WALL ASSEMBLY
- 7 SHEET METAL COPING
- 8 HARDIE REVEAL PANEL SYSTEM, SMOOTH FINISH
- 9 THERMAL ROOF INSULATION
- 10 DOUBLE GYP-BOARD 1-HR. ROOF CEILING MEMBRANE.
- 11 PROVIDE AUTOMATIC FIRE EXTINGUISHING SPRINKLERS IN THE OCCUPIED AREAS AND CONCEALED SPACES
- 12 SHEET METAL ROOF SCUPPER, TO LEADER HEAD AND DOWNSPOUT
- 13 SEPARATE OVERFLOW SCUPPER TO DAYLIGHT
- 14 1-HR. FLOOR/CEILING ASSEMBLY WITH INSULATION PER TITLE 24 ENERGY CALCS.
- 15 FLOOR JOISTS, SEE STRUCT.
- 16 STRUCTURAL WOOD PANEL FLOOR SHEATHING
- 17 1 1/4" GYPSUM-CONCRETE TYPICAL UNIT FLOORING
- 18 5/8" TYPE "X" GYPSUM BOARD TYPICAL INTERIOR FINISH THROUGHOUT
- 19 EXTERIOR DECK/CEILING ASSEMBLY.
- 20 DECK JOISTS AT PRIVATE DECKS, JOISTS AT WALKWAY, SLOPED 1/4" PER FT. AT PRIVATE PATIOS AND EXTERIOR WALKWAY
- 21 TONGUE&GROOVE "PLYWOOD" SHEATHING AT DECKS O.S.B. NOT ALLOWED, TO RECIE W.P. MEMBRANE
- 22 2" HARDROCK CONC. OVER WATERPROOF MEMBRANE OVER SLOPING SHEATHING.
- 23 THERMAL FLOOR/ CEILING INSULATION OVER UNCONDITIONED SPACE
- 24 3-COAT EXTERIOR CEMENT PLASTER, PAINTED AND INSTALLED OVER STUCCO NETTING AND A BASE LAYER OF TYVEK AND AN EXTERIOR LAYER OF BUILDING PAPER, PROVIDE CONTROL JOINTS WHERE SHOWN ON ELEVATIONS (PER ASTM MAX. 144 SF.)
- 25 EXTERIOR 1-HOUR WALL CONSTRUCTION.
- 26 THERMAL EXTERIOR WALL INSULATION
- 27 ACOUSTICAL BATT INSULATION, AT PARTY WALLS
- 28 STAGGERED STUD 1-HOUR CORRIDOR WALL
- 29 FURR DOWN CEILING, SEE UNIT FLOOR PLANS DRYWALL BOTTOM OF JOISTS BEFORE FURRING.
- 30 DOOR
- 31 WINDOW
- 32 FLUSH BEAM (WOOD), SEE FRAMING PLAN
- 33 CORNICE W/ ACCENT COLOR
- 34 44" MIN. HIGH STEEL PLATE AND ROD GUARDRAIL, SEE ELEVATIONS.
- 35 CONCRETE FOUNDATION SYSTEM, SEE FOUNDATION PLAN
- 36 HARDIE ARTISAN V-RUSTIC SIDING
- 37 SINGLE STUD 2-HOUR EXTERIOR ASSEMBLY
- 38 2-HOUR CEILING ASSEMBLY
- 39 CORRUGATED METAL SIDING W/ ACCENT COLOR



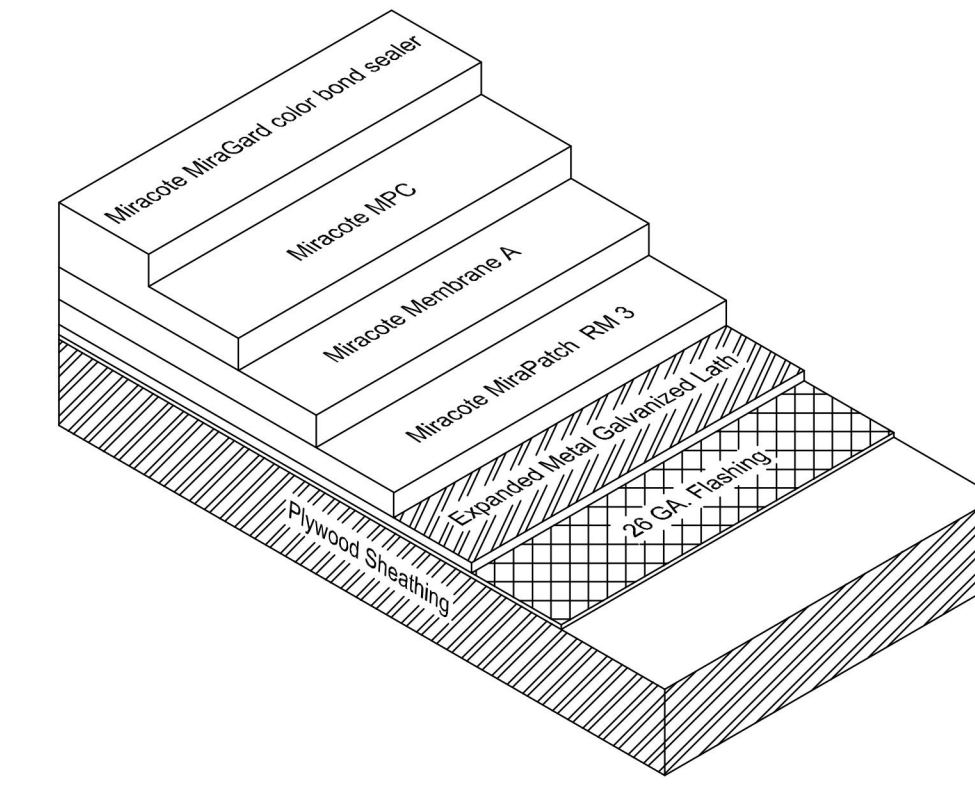
B SECTION
 SCALE: 3/16" = 1'-0"



A SECTION
 SCALE: 3/16" = 1'-0"



PLYWOOD:
Exterior grade 5/8" sheathing fully blocked, glued and screwed, no deflection.



MIRACOTES MIRAFLEX II DECKING SYSTEM
INSTALL PER ICC-ESR-1714 LATEST REPORT
AND MANUFACTURER'S RECOMMENDATIONS
Plywood Substrate at Wood or Metal Stud Wall Detail

1 DECK COATING SYSTEM
SCALE: N.T.S.

SEISMIC Consulting Engineers
3775 Beacon Avenue, Suite 205
Fremont, CA 94538
T (510)795-7737 F (510)796-7737
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AJS Architecture | Planning
2038 Fourth Street
Livermore, CA 94550
925.980.4103
Anthony Sarboraria, AIA C27262

CLIENT
SK DEVELOPMENT
32513 Mission Blvd.
Hayward, CA 94544

PROJECT
MIXED USE PROJECT
32513 MISSION BLVD.
HAYWARD, CA 94544

STAMP

**SHEET
DETAILS**

ISSUED FOR:	PLANNING APPROVAL
DATE:	7/721
SCALE:	AS NOTED
DRAW:	KRM
DESIGN:	AJS
CHECK:	
JOB No.	SCE-17017

REVISIONS	BY

SHEET : **A5.1**

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1-1 Project Name: **MIXED USE PROJECT**
 1-2 City application ID: **201900754**
 1-3 Site Address or APN: **32513 Mission Blvd.**
 1-4 Tract or Parcel Map No:
 1-5 Site Mean Annual Precip. (MAP)¹ **18.0** Inches
 Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)
 1-6 Applicable Rain Gauge² **Oakland**
 Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.
 MAP adjustment factor is automatically calculated as: **0.98**
 (The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **BIO-RETENTION #1**

For Items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	4,725	1.0	4,725
2-3 Pervious service	1,622	0.1	162
Total DMA Area (square feet) =			6,347
2-4 Total Effective Impervious Area (EIA)		4,887	Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns			
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients	Coefficient of 1.00
Oakland Airport	18.35		0.67
San Jose	14.4		0.56

3-1 Unit basin storage volume from Table 5.2: **0.67** Inches
 (The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

3-2 Adjusted unit basin storage volume: **0.66** Inches
 (The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3-3 Required Capture Volume (in cubic feet): **268** Cubic feet
 (The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity **0.2** Inches per hour
 4-2 Divide Item 3-2 by Item 4-1 **3.29** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA impervious surface **195** Square feet
 5-2 Area 25% smaller than item 5-1 **147** Square feet
 5-3 Volume of treated runoff for area in Item 5-2 **201** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3 **67** Cubic feet (Amount of runoff to be stored in ponding area)
 6-2 Divide Item 6-1 by Item 5-2 **0.5** Feet (Depth of stored runoff in surface ponding area)
 6-3 Convert Item 6-2 from ft to inches **5.5** Inches (Depth of stored runoff in surface ponding area)
 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger or smaller than Item 5-2 Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
 7-2 Volume of treated runoff for area in Item 7-1 **0** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
 7-3 Subtract Item 7-2 from Item 3-3 Cubic feet (Amount of runoff to be stored in ponding area)
 7-4 Divide Item 7-3 by Item 7-1 Feet (Depth of stored runoff in surface ponding area)
 7-5 Convert Item 7-4 from feet to inches Inches (Depth of stored runoff in surface ponding area)
 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth.

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment* **147** Square feet (Either Item 5-2 or final amount in Item 7-1)
 *Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1-1 Project Name: **MIXED USE PROJECT**
 1-2 City application ID: **201900754**
 1-3 Site Address or APN: **32513 Mission Blvd.**
 1-4 Tract or Parcel Map No:
 1-5 Site Mean Annual Precip. (MAP)¹ **18.0** Inches
 Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)
 1-6 Applicable Rain Gauge² **Oakland**
 Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.
 MAP adjustment factor is automatically calculated as: **0.98**
 (The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **BIO-RETENTION #2**

For Items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	1,477	1.0	1,477
2-3 Pervious service	0	0.1	
Total DMA Area (square feet) =			1,477
2-4 Total Effective Impervious Area (EIA)		1,477	Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns			
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients	Coefficient of 1.00
Oakland Airport	18.35		0.67
San Jose	14.4		0.56

3-1 Unit basin storage volume from Table 5.2: **0.67** Inches
 (The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

3-2 Adjusted unit basin storage volume: **0.66** Inches
 (The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3-3 Required Capture Volume (in cubic feet): **81** Cubic feet
 (The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity **0.2** Inches per hour
 4-2 Divide Item 3-2 by Item 4-1 **3.29** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA impervious surface **59** Square feet
 5-2 Area 25% smaller than item 5-1 **44** Square feet
 5-3 Volume of treated runoff for area in Item 5-2 **61** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3 **20** Cubic feet (Amount of runoff to be stored in ponding area)
 6-2 Divide Item 6-1 by Item 5-2 **0.5** Feet (Depth of stored runoff in surface ponding area)
 6-3 Convert Item 6-2 from ft to inches **5.5** Inches (Depth of stored runoff in surface ponding area)
 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger or smaller than Item 5-2 Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
 7-2 Volume of treated runoff for area in Item 7-1 **0** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
 7-3 Subtract Item 7-2 from Item 3-3 Cubic feet (Amount of runoff to be stored in ponding area)
 7-4 Divide Item 7-3 by Item 7-1 Feet (Depth of stored runoff in surface ponding area)
 7-5 Convert Item 7-4 from feet to inches Inches (Depth of stored runoff in surface ponding area)
 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth.

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment* **44** Square feet (Either Item 5-2 or final amount in Item 7-1)
 *Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1-1 Project Name: **MIXED USE PROJECT**
 1-2 City application ID: **201900754**
 1-3 Site Address or APN: **32513 Mission Blvd.**
 1-4 Tract or Parcel Map No:
 1-5 Site Mean Annual Precip. (MAP)¹ **18.0** Inches
 Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)
 1-6 Applicable Rain Gauge² **Oakland**
 Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.
 MAP adjustment factor is automatically calculated as: **0.98**
 (The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **BIO-RETENTION #3**

For Items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	5,856	1.0	5,856
2-3 Pervious service	783	0.1	78
Total DMA Area (square feet) =			6,639
2-4 Total Effective Impervious Area (EIA)		5,934	Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Table 5-2: Unit Basin Storage Volumes (in inches) for 80 Percent Capture Using 48-Hour Drawdowns			
Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients	Coefficient of 1.00
Oakland Airport	18.35		0.67
San Jose	14.4		0.56

3-1 Unit basin storage volume from Table 5.2: **0.67** Inches
 (The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area)

3-2 Adjusted unit basin storage volume: **0.66** Inches
 (The unit basin storage volume is adjusted by applying the MAP adjustment factor.)

3-3 Required Capture Volume (in cubic feet): **325** Cubic feet
 (The adjusted unit basin storage volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity **0.2** Inches per hour
 4-2 Divide Item 3-2 by Item 4-1 **3.29** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA impervious surface **237** Square feet
 5-2 Area 25% smaller than item 5-1 **178** Square feet
 5-3 Volume of treated runoff for area in Item 5-2 **244** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3 **81** Cubic feet (Amount of runoff to be stored in ponding area)
 6-2 Divide Item 6-1 by Item 5-2 **0.5** Feet (Depth of stored runoff in surface ponding area)
 6-3 Convert Item 6-2 from ft to inches **5.5** Inches (Depth of stored runoff in surface ponding area)
 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger or smaller than Item 5-2 Sq.ft. (enter larger area if you need less ponding depth; smaller for more depth.)
 7-2 Volume of treated runoff for area in Item 7-1 **0** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
 7-3 Subtract Item 7-2 from Item 3-3 Cubic feet (Amount of runoff to be stored in ponding area)
 7-4 Divide Item 7-3 by Item 7-1 Feet (Depth of stored runoff in surface ponding area)
 7-5 Convert Item 7-4 from feet to inches Inches (Depth of stored runoff in surface ponding area)
 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth.

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment* **178** Square feet (Either Item 5-2 or final amount in Item 7-1)
 *Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.



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Swati Kiran LLC
 16 Sonas Place
 Hayward, CA 94542

PROJECT

MIXED USE PROJECT
 32513 MISSION BLVD.
 HAYWARD, CA 94544

STAMP



SHEET

DRAINAGE MANAGEMENT AREA SCHEDULES

ISSUED FOR: PLANNING APPROVAL
DATE: 7/7/21
SCALE: AS NOTED
DRAW: KRM
DESIGN: KRM
CHECK:
JOB No. SCE-17017

REVISIONS	BY

SHEET : **C1.1**

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1-1 Project Name: **MIXED USE PROJECT**
 1-2 City application ID: **201900754**
 1-3 Site Address or APN: **32513 Mission Blvd.**
 1-4 Tract or Parcel Map No:
 1-5 Site Mean Annual Precip. (MAP)¹ **18.0** Inches
 Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)
 1-6 Applicable Rain Gauge² **Oakland**
 Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.
 MAP adjustment factor is automatically calculated as: **0.98**
 (The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **FLOW-THROUGH PLANTER #1**
 For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	1,336	1.0	1,336
2-3 Pervious service	0	0.1	
Total DMA Area (square feet) =		1,336	

2-4 Total Effective Impervious Area (EIA) **1,336** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients	Coefficient of 1.00
Oakland Airport	18.35		0.67
San Jose	14.4		0.56

3-1 Unit basin storage volume from Table 5.2: **0.67** Inches
 (The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area.)
 3-2 Adjusted unit basin storage volume: **0.66** Inches
 (The unit basin storage volume is adjusted by applying the MAP adjustment factor.)
 3-3 Required Capture Volume (in cubic feet): **73** Cubic feet
 (The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity **0.2** Inches per hour
 4-2 Divide Item 3-2 by Item 4-1 **3.29** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA impervious surface **53** Square feet
 5-2 Area 25% smaller than Item 5-1 **40** Square feet
 5-3 Volume of treated runoff for area in Item 5-2 **55** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3 **18** Cubic feet (Amount of runoff to be stored in ponding area)
 6-2 Divide Item 6-1 by Item 5-2 **0.5** Feet (Depth of stored runoff in surface ponding area)
 6-3 Convert Item 6-2 from ft to inches **5.5** Inches (Depth of stored runoff in surface ponding area)
 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger or smaller than Item 5-2 **Sq.ft.** (enter larger area if you need less ponding depth; smaller for more depth.)
 7-2 Volume of treated runoff for area in Item 7-1 **0** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
 7-3 Subtract Item 7-2 from Item 3-3 **Cubic feet** (Amount of runoff to be stored in ponding area)
 7-4 Divide Item 7-3 by Item 7-1 **Feet** (Depth of stored runoff in surface ponding area)
 7-5 Convert Item 7-4 from feet to inches **Inches** (Depth of stored runoff in surface ponding area)
 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth.

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment* **40** Square feet (Either Item 5-2 or final amount in Item 7-1)
 *Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.

Worksheet for Calculating the Combination Flow and Volume Method

Instructions: After completing Section 1, make a copy of this Excel file for each Drainage Management Area within the project. Enter information specific to the project and DMA in the cells shaded in yellow. Cells shaded in light blue contain formulas and values that will be automatically calculated.

1.0 Project Information

1-1 Project Name: **MIXED USE PROJECT**
 1-2 City application ID: **201900754**
 1-3 Site Address or APN: **32513 Mission Blvd.**
 1-4 Tract or Parcel Map No:
 1-5 Site Mean Annual Precip. (MAP)¹ **18.0** Inches
 Refer to the Mean Annual Precipitation Map in Appendix D of the C.3 Technical Guidance to determine the MAP, in inches, for the site. [Click here for map](#)
 1-6 Applicable Rain Gauge² **Oakland**
 Enter "Oakland Airport" if the site MAP is 16.4 inches or greater. Enter "San Jose" if the site MAP is less than 16.4 inches.
 MAP adjustment factor is automatically calculated as: **0.98**
 (The "Site Mean Annual Precipitation (MAP)" is divided by the MAP for the applicable rain gauge, shown in Table 5.2, below.)

2.0 Calculate Percentage of Impervious Surface for Drainage Management Area (DMA)

2-1 Name of DMA: **FLOW-THROUGH PLANTER #2 & 3**
 For items 2-2 and 2-3, enter the areas in square feet for each type of surface within the DMA.

Type of Surface	Area of surface type within DMA (Sq. Ft)	Adjust Pervious Surface	Effective Impervious Area
2-2 Impervious surface	1,518	1.0	1,518
2-3 Pervious service	0	0.1	
Total DMA Area (square feet) =		1,518	

2-4 Total Effective Impervious Area (EIA) **1,518** Square feet

3.0 Calculate Unit Basin Storage Volume in Inches

Applicable Rain Gauge	Mean Annual Precipitation (in)	Unit Basin Storage Volume (in) for Applicable Runoff Coefficients	Coefficient of 1.00
Oakland Airport	18.35		0.67
San Jose	14.4		0.56

3-1 Unit basin storage volume from Table 5.2: **0.67** Inches
 (The coefficient for this method is 1.00, due to the conversion of any landscaping to effective impervious area.)
 3-2 Adjusted unit basin storage volume: **0.66** Inches
 (The unit basin storage volume is adjusted by applying the MAP adjustment factor.)
 3-3 Required Capture Volume (in cubic feet): **83** Cubic feet
 (The adjusted unit basin sizing volume [inches] is multiplied by the size of the DMA and converted to feet)

4.0 Calculate the Duration of the Rain Event

4-1 Rainfall intensity **0.2** Inches per hour
 4-2 Divide Item 3-2 by Item 4-1 **3.29** Hours of Rain Event Duration

5.0 Preliminary Estimate of Surface Area of Treatment Measure

5-1 4% of DMA impervious surface **61** Square feet
 5-2 Area 25% smaller than Item 5-1 **46** Square feet
 5-3 Volume of treated runoff for area in Item 5-2 **62** Cubic feet (Item 5-2 * 5 inches per hour * 1/12 * Item 4-2)

6.0 Initial Adjustment of Depth of Surface Ponding Area

6-1 Subtract Item 5-3 from Item 3-3 **21** Cubic feet (Amount of runoff to be stored in ponding area)
 6-2 Divide Item 6-1 by Item 5-2 **0.5** Feet (Depth of stored runoff in surface ponding area)
 6-3 Convert Item 6-2 from ft to inches **5.5** Inches (Depth of stored runoff in surface ponding area)
 6-4 If ponding depth in Item 6-3 meets your target depth, skip to Item 8-1. If not, continue to Step 7-1.

7.0 Optimize Size of Treatment Measure

7-1 Enter an area larger or smaller than Item 5-2 **Sq.ft.** (enter larger area if you need less ponding depth; smaller for more depth.)
 7-2 Volume of treated runoff for area in Item 7-1 **0** Cubic feet (Item 7-1 * 5 inches per hour * 1/12 * Item 4-2)
 7-3 Subtract Item 7-2 from Item 3-3 **Cubic feet** (Amount of runoff to be stored in ponding area)
 7-4 Divide Item 7-3 by Item 7-1 **Feet** (Depth of stored runoff in surface ponding area)
 7-5 Convert Item 7-4 from feet to inches **Inches** (Depth of stored runoff in surface ponding area)
 7-6 If the ponding depth in Item 7-5 meets target, stop here. If not, repeat Steps 7-1 through 7-5 until you obtain target depth.

8.0 Surface Area of Treatment Measure for DMA

8-1 Final surface area of treatment* **46** Square feet (Either Item 5-2 or final amount in Item 7-1)
 *Note: Check with the local jurisdiction as to its policy regarding the minimum biotreatment surface area allowed.



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Swati Kiran LLC
 16 Sonas Place
 Hayward, CA 94542

PROJECT

MIXED USE PROJECT
 32513 MISSION BLVD.
 HAYWARD, CA 94544

STAMP



SHEET

DRAINAGE MANAGEMENT
 AREA SCHEDULES

ISSUED FOR: PLANNING APPROVAL
 DATE: 7/7/21
 SCALE: AS NOTED
 DRAW: KRM
 DESIGN: KRM
 CHECK:
 JOB No. SCE-17017

REVISIONS	BY

SHEET: **C1.2**

MISSION BLVD.

SHEET NOTES :
 1. CONSTRUCTION RELATED ACTIVITIES SHALL OCCURE WITHIN BUILDING PAD AND HARD SURFACE AREAS SHOWN ON PLAN, IN ORDER TO MINIMIZE DISRUPTION TO EXISTING PLANTS.

SEISMIC Consulting Engineers
 3775 Beacon Avenue, Suite 205
 Fremont, CA 94538
 T (510)795-7737

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CLIENT
 Swati Kiran LLC
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PROJECT
 MIXED USE PROJECT
 32513 MISSION BLVD.
 HAYWARD, CA 94544

STAMP

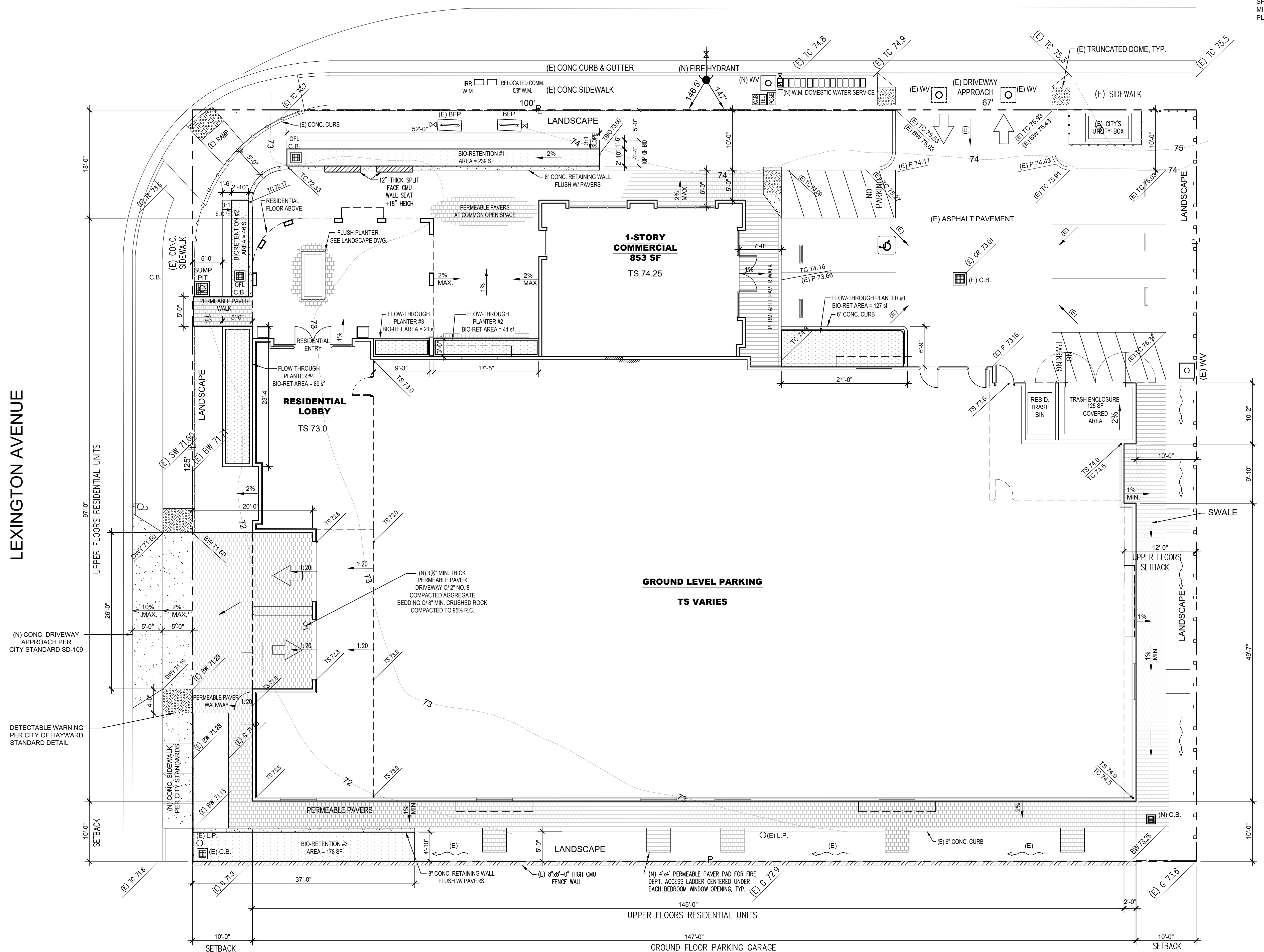
SHEET
 GRADING AND PAVING PLAN

ISSUED FOR:	PLANNING APPROVAL
DATE:	7/7/21
SCALE:	AS NOTED
DRAW:	KRM
DESIGN:	KRM
CHECK:	
JOB No.	SCE-17017

REVISIONS	BY

SHEET : **C2**

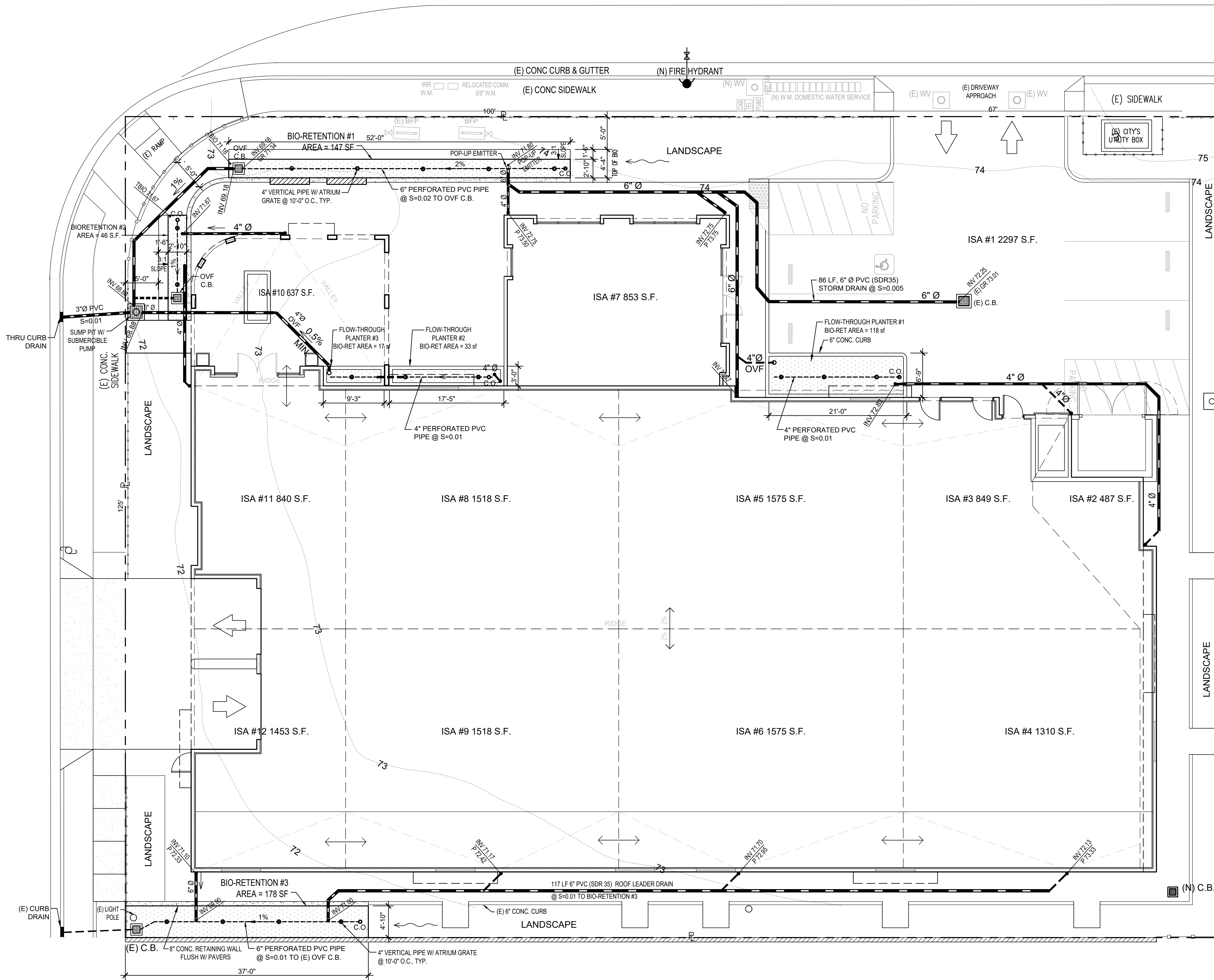
LEXINGTON AVENUE



1 GRADING AND PAVING PLAN
 SCALE: 1/8" = 1'-0"



MISSION BLVD.



STORM WATER TABLE (1)					
DRAINAGE MANAGEMENT AREA (DMA) NAME	DMA (sf) PROVIDED	IMPERVIOUS SURFACE AREA (ISA) #	ISA (sf)	PERVIOUS SURFACE AREA (PSA) (sf)	DMA (sf) REQUIRED
BIO-RETENTION #1	147	1, 5, 7	4725	1622	147
BIO-RETENTION #2	46	11, 10	1477	0	44
FLOW-THROUGH PLANTER #1	118	2, 3	1336	0	40
FLOW-THROUGH PLANTER #2 & 3	50	8	1518	0	46
BIO-RETENTION #3	178	4, 6, 9, 12	5856	783	178
TOTAL	539		14912	2405	455

(1) SEE SHEET C1.1 AND C1.2 FOR DMA CALCULATIONS.

SEISMIC Consulting Engineers
 3775 Beacon Avenue, Suite 205
 Fremont, CA 94538
 T (510)795-7737

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CLIENT

Swati Kiran LLC
 16 Sonas Place
 Hayward, CA 94542

PROJECT

MIXED USE PROJECT

32513 MISSION BLVD.
 HAYWARD, CA 94544

STAMP

SHEET

DRAINAGE PLAN

ISSUED FOR: PLANNING APPROVAL

DATE: 7/7/21

SCALE: AS NOTED

DRAW: KRM

DESIGN: KRM

CHECK:

JOB No. SCE-17017

REVISIONS	BY

SHEET: **C3**

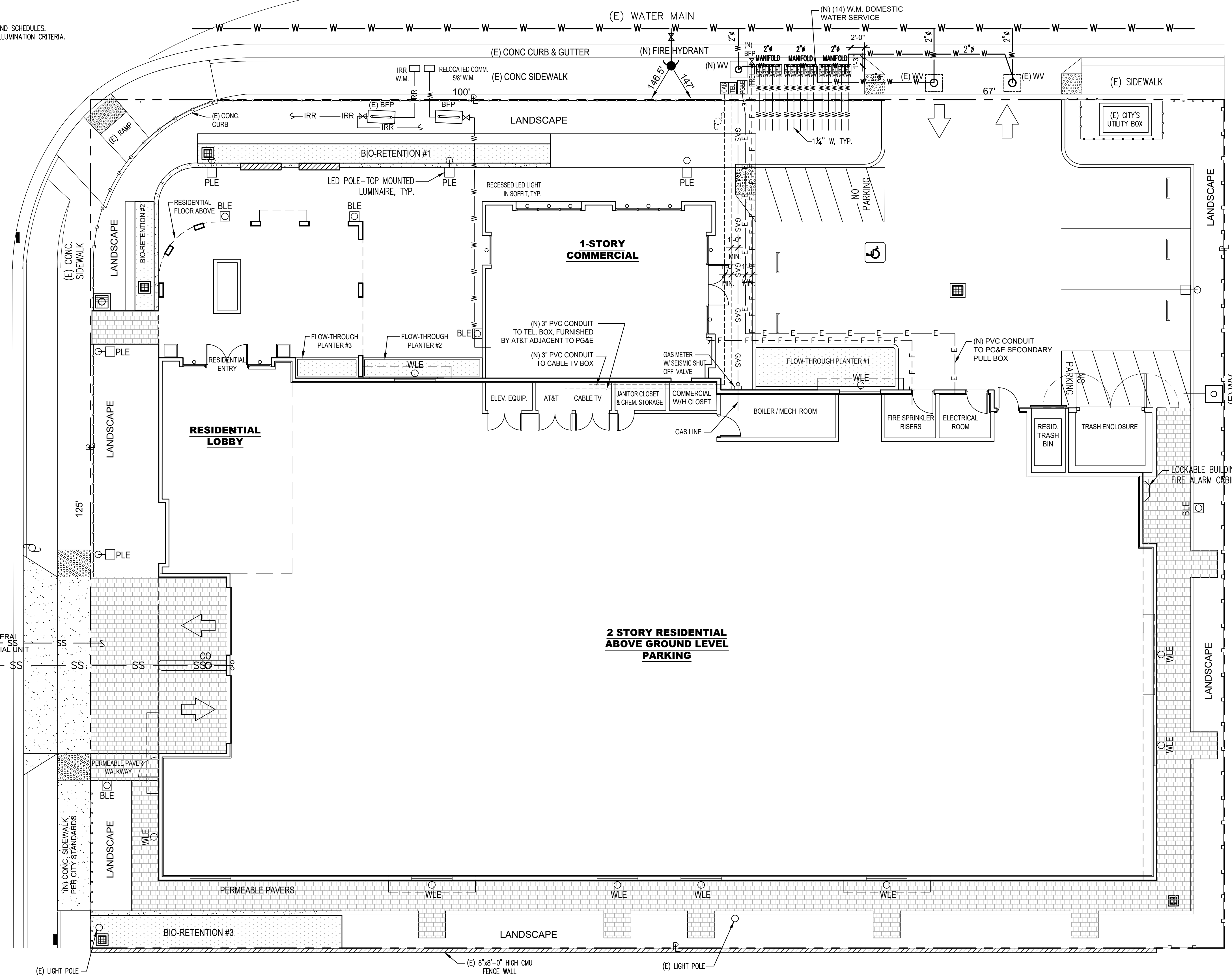
OUTDOOR LUMINAIRE SCHEDULE			
TYPE	DESCRIPTION	LAMP TYPE	WATTS/VA
WLE	SURFACE MOUNTED LED WALL PACK LABELED FOR WET LOCATIONS.	LED	40W
PLE	POLE MOUNTED PEDESTRIAN LUMINAIRE POLE TOP MOUNTED LUMINAIRE FOR AREA ILLUMINATION. MOUNT ON REINFORCED SONOTUBE FORMED CONCRETE BASE.	LED	50W
BLE	LED BOLLARD LUMINAIRE 48" HIGH ROUND OR SQUARE LIGHTING BOLLARD.	LED	10W

NOTES:

- SEE ELECTRICAL DRAWINGS FOR OUTDOOR LIGHTING PLAN AND SCHEDULES.
- EC SHALL DETERMINE FINAL WATTAGE REQUIRED TO MEET ILLUMINATION CRITERIA.
- PROVIDE PHOTOCELL PER ENERGY CODE.

MISSION BLVD.

LEXINGTON AVENUE



SHEET NOTES

- ALL "PROPOSED" UTILITY ELEMENTS SHALL BE COORDINATED WITH THE UTILITY COMPANY AND CONFIRMED TO BE ACCEPTABLE. CONTRACTOR REMAINS RESPONSIBLE FOR ALL UTILITY COORDINATION AND ASSOCIATED UNDERGROUND WORK.
- BUILDING SHALL BE PROVIDED WITH HOUSE PANEL FOR POWERING EXTERIOR AREA LIGHTING, & BUILDING FIRE ALARM.
- POLE LIGHT LOCATIONS AND QUANTITY SHALL BE CONFIRMED BY CONTRACTOR BASED UPON ENSURING COMPLIANCE WITH LIGHTING DESIGN CRITERIA. SEE ELECTRICAL DRAWINGS.

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 16 Sonas Place
 Hayward, CA 94542

PROJECT

MIXED USE PROJECT

32513 MISSION BLVD.
 HAYWARD, CA 94544

STAMP

SHEET

UTILITY & OUTDOOR LIGHTING PLAN

ISSUED FOR:	PLANNING APPROVAL
DATE:	7/7/21
SCALE:	AS NOTED
DRAW:	KRM
DESIGN:	KRM
CHECK:	
JOB No.	SCE-17017

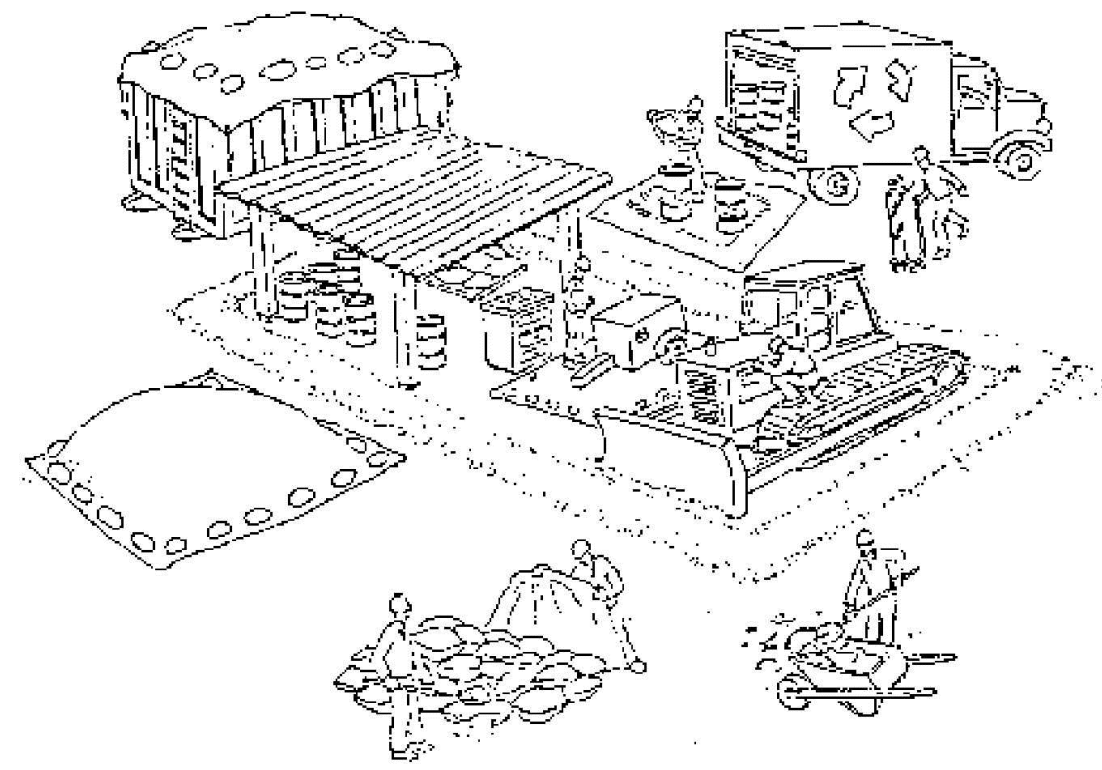
REVISIONS	BY

SHEET: **C4**

Pollution Prevention — It's Part of the Plan

Make sure your crews and subs do the job right!

Runoff from streets and other paved areas is a major source of pollution in San Francisco Bay. Construction activities can directly affect the health of the Bay unless contractors and crews plan ahead to keep dirt, debris, and other construction waste away from storm drains and local creeks. Following these guidelines will ensure your compliance with local ordinance requirements.



Materials storage & spill cleanup

Non-hazardous materials management

- ✓ Sand, dirt, and similar materials must be stored at least 10 feet from catch basins, and covered with a tarp during wet weather or when rain is forecast.
- ✓ Use (but don't overuse) reclaimed water for dust control as needed.
- ✓ Sweep streets and other paved areas daily. Do not wash down streets or work areas with water!
- ✓ Recycle all asphalt, concrete, and aggregate base material from demolition activities.
- ✓ Check dumpsters regularly for leaks and to make sure they don't overflow. Repair or replace leaking dumpsters promptly.

Hazardous materials management

- ✓ Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, state, and federal regulations.
- ✓ Store hazardous materials and wastes in secondary containment and cover them during wet weather.
- ✓ Follow manufacturer's application instructions for hazardous materials and be careful not to use more than necessary. Do not apply chemicals outdoors when rain is forecast within 24 hours.
- ✓ Be sure to arrange for appropriate disposal of all hazardous wastes.

Spill prevention and control

- ✓ Keep a stockpile of spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- ✓ When spills or leaks occur, contain them immediately and be particularly careful to prevent leaks and spills from reaching the gutter, street, or storm drain. Never wash spilled material into a gutter, street, storm drain, or creek!
- ✓ Report any hazardous materials spills immediately! Dial 911 or your local emergency response number.

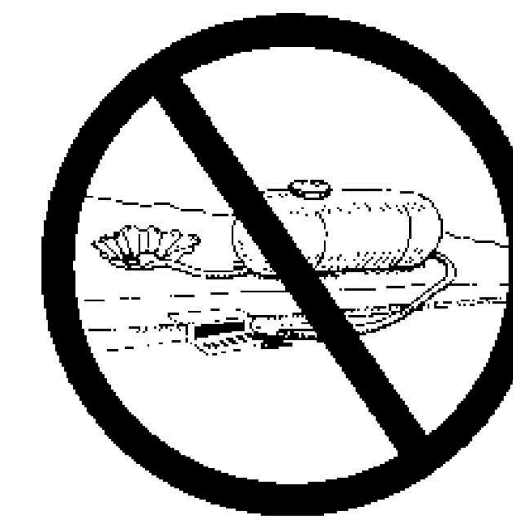
Vehicle and equipment maintenance & cleaning

- ✓ Inspect vehicles and equipment for leaks frequently. Use drip pans to catch leaks until repairs are made; repair leaks promptly.
- ✓ Fuel and maintain vehicles on site only in a bermed area or over a drip pan that is big enough to prevent runoff.
- ✓ If you must clean vehicles or equipment on site, clean with water only in a bermed area that will not allow rinsewater to run into gutters, streets, storm drains, or creeks.
- ✓ Do not clean vehicles or equipment on-site using soaps, solvents, degreasers, steam cleaning equipment, etc.



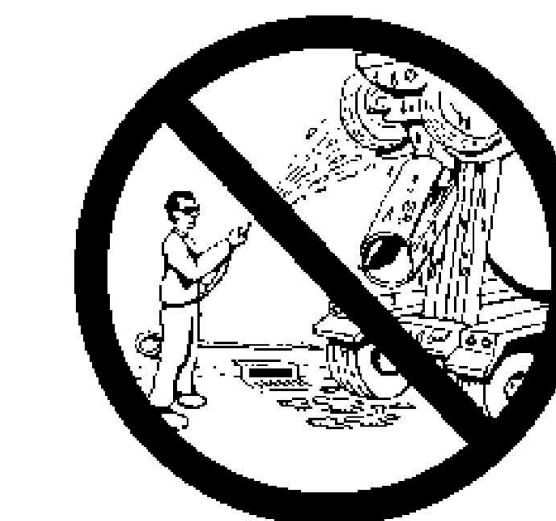
Dewatering operations

- ✓ Reuse water for dust control, irrigation, or another on-site purpose to the greatest extent possible.
- ✓ Be sure to call your city's storm drain inspector before discharging water to a street, gutter, or storm drain. Filtration or diversion through a basin, tank, or sediment trap may be required.
- ✓ In areas of known contamination, testing is required prior to reuse or discharge of groundwater. Consult with the city inspector to determine what testing to do and to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.



Saw cutting

- ✓ Always completely cover or barricade storm drain inlets when saw cutting. Use filter fabric, catch basin inlet filters, or sand/gravel bags to keep slurry out of the storm drain system.
- ✓ Shovel, absorb, or vacuum saw-cut slurry and pick up all waste as soon as you are finished in one location or at the end of each work day (whichever is sooner!).
- ✓ If saw cut slurry enters a catch basin, clean it up immediately.



Earthwork & contaminated soils

- ✓ Keep excavated soil on the site where it is least likely to collect in the street. Transfer to dump trucks should take place on the site, not in the street.
- ✓ Use fiber rolls, silt fences, or other control measures to minimize the flow of silt off the site.



- ✓ Avoid scheduling earth moving activities during the rainy season if possible. If grading activities during wet weather are allowed in your permit, be sure to implement all control measures necessary to prevent erosion.
- ✓ Mature vegetation is the best form of erosion control. Minimize disturbance to existing vegetation whenever possible.
- ✓ If you disturb a slope during construction, prevent erosion by securing the soil with erosion control fabric, or seed with fast-growing grasses as soon as possible. Place fiber rolls down-slope until soil is secure.

- ✓ If you suspect contamination (from site history, discoloration, odor, texture, abandoned underground tanks or pipes, or buried debris), call the Regional Water Quality Control Board or local hazardous waste management agency for help in determining what testing should be done, and manage disposal of contaminated soil according to their instructions.

Paving/asphalt work

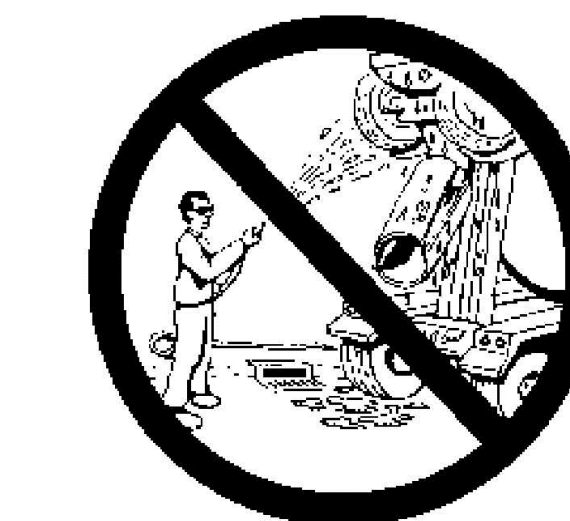
- ✓ Do not pave during wet weather or when rain is forecast.
- ✓ Always cover storm drain inlets and manholes when paving or applying seal coat, tack coat, slurry seal, or fog seal.
- ✓ Place drip pans or absorbent material under paving equipment when not in use.
- ✓ Protect gutters, ditches, and drainage courses with sand/gravel bags, or earthen berms.
- ✓ Do not sweep or wash down excess sand from sand sealing into gutters, storm drains, or creeks. Collect sand and return it to the stockpile, or dispose of it as trash.
- ✓ Do not use water to wash down fresh asphalt concrete pavement.



Concrete, grout, and mortar storage & waste disposal

- ✓ Be sure to store concrete, grout, and mortar under cover and away from drainage areas. These materials must never reach a storm drain.
- ✓ Wash out concrete equipment/trucks off-site or designate an on-site area for washing where water will flow onto dirt or into a temporary pit in a dirt area. Let the water seep into the soil and dispose of hardened concrete with trash.

- ✓ Divert water from washing exposed aggregate concrete to a dirt area where it will not run into a gutter, street, or storm drain.
- ✓ If a suitable dirt area is not available, collect the wash water and remove it for appropriate disposal off site.



Painting

- ✓ Never rinse paint brushes or materials in a gutter or street!
- ✓ Paint out excess water-based paint before rinsing brushes, rollers, or containers in a sink. If you can't use a sink, direct wash water to a dirt area and spade it in.
- ✓ Paint out excess oil-based paint before cleaning brushes in thinner.
- ✓ Filter paint thinners and solvents for reuse whenever possible. Dispose of oil-based paint sludge and unusable thinner as hazardous waste.



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CLIENT

Swati Kiran LLC
16 Sonas Place
Hayward, CA 94542

PROJECT

MIXED USE PROJECT

32513 MISSION BLVD.
HAYWARD, CA 94544

STAMP



SHEET

POLLUTION CONTROL

ISSUED FOR: PLANNING APPROVAL

DATE: 7/7/21

SCALE: AS NOTED

DRAW: KRM

DESIGN: KRM

CHECK:

JOB No. SCE-17017

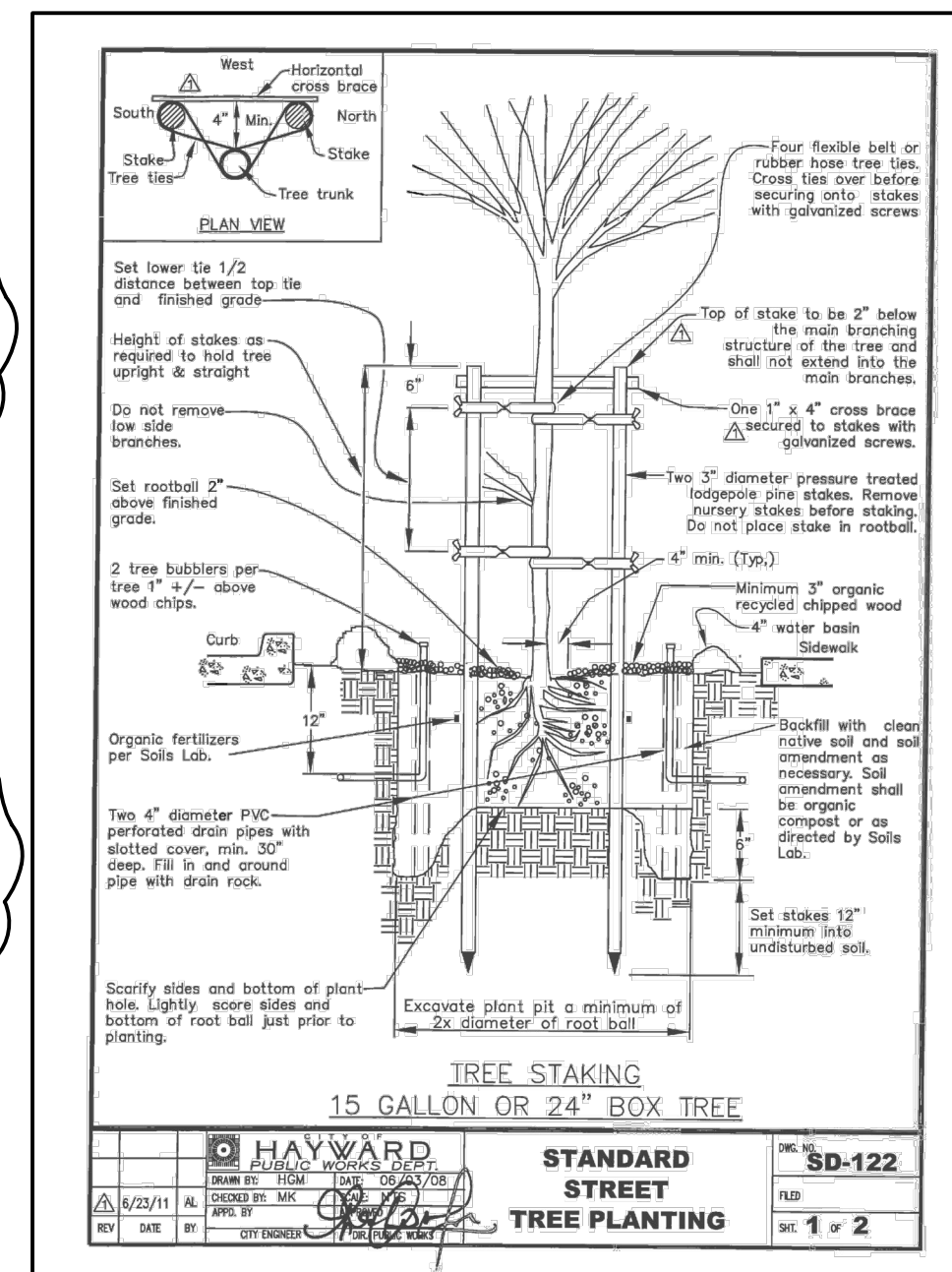
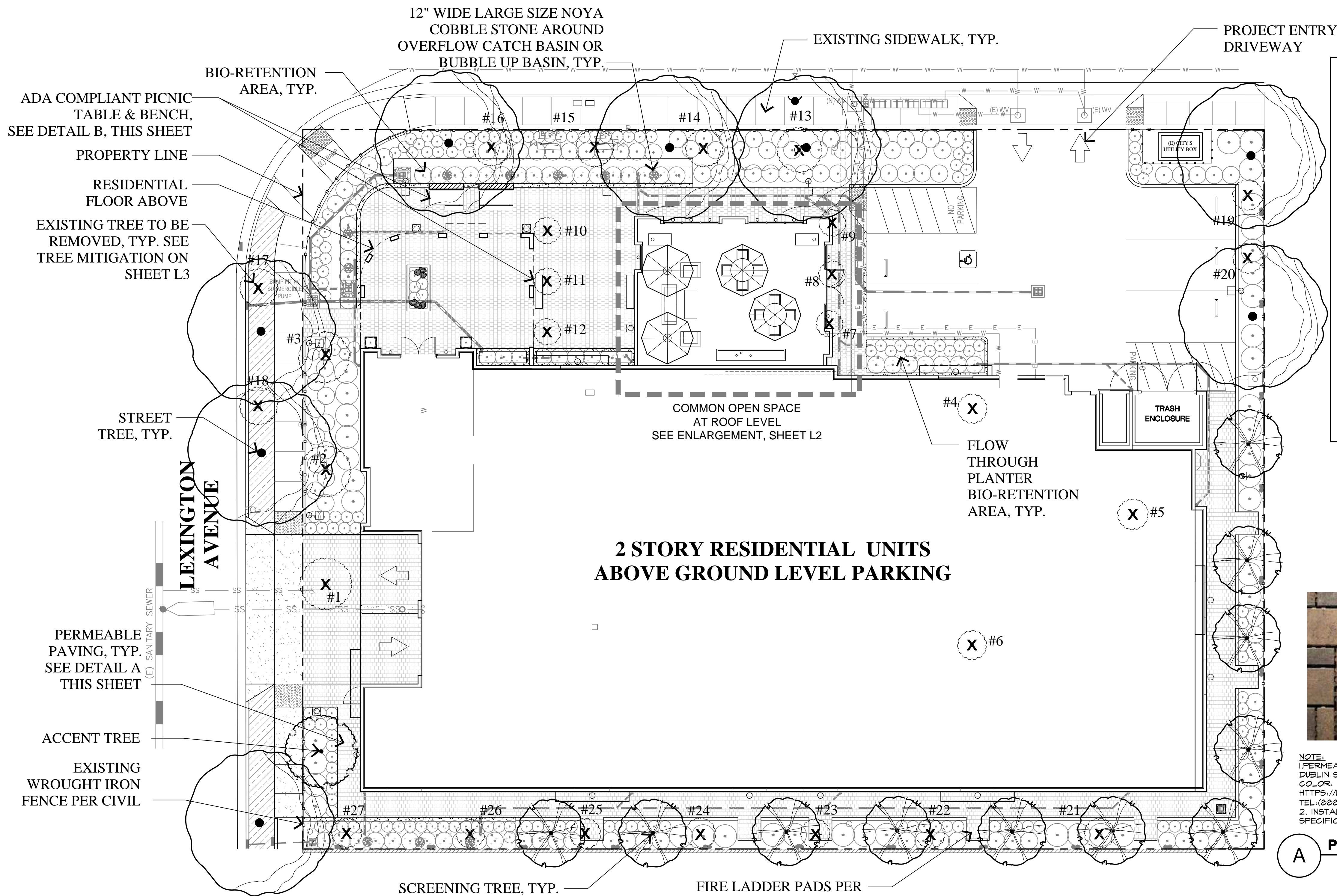
REVISIONS	BY

SHEET: **C5**

B A S M A A Bay Area Stormwater Management Agencies Association (BASMAA)
1-888-BAYWISE

Storm drain polluters may be liable for fines of \$10,000 or more per day!

For more detailed information:
Get a copy of the "Field Manual" — (510) 622-2465 or
www.abag.ca.gov/bayarea/sfep/reports/construction.html



STREET TREE PLANTING SPECIFICATIONS:

1. Tree shall be healthy, disease and insect-free, well rooted, and properly trained with a straight trunk that can stand upright without support. Tree shall exhibit a central leader, or a main branch that can be trained as a central leader. Branches shall be well-developed and shall be evenly and radially distributed around the trunk. Root ball shall not exhibit kinked or circling roots.
2. Tree shall comply with federal and state laws requiring inspection for plant diseases and pest infestation. Clearance from the county agricultural commissioner, as required by law, shall be obtained before planting trees delivered from outside the county.
3. Prior to planting tree, determine the location of existing or future underground utilities. Locate tree a minimum of 5 feet from lateral service lines and driveways. Locate tree a minimum of 15 feet from a light pole, and a minimum of 30 feet from the face of a traffic signal, or as otherwise specified by the City.
4. Tree pit shall be tested for proper drainage prior to planting tree. Fill pit with water; if water remains after a 24-hour period, sugar trees 4"-diameter by 3-foot deep holes at the bottom of the tree pit. Backfill with drain rock.
5. Set tree in an upright and plumb position. As much as possible, tree shall be positioned such that dominant branches are parallel to the roadway and are oriented away from potential conflicts.
6. If required by the City, a pressure-compensating bubbler, or drip emitters, shall be provided to each tree.
7. Depending on the planter strip width, or the tree well size and the tree species being planted, a 24" deep root-barrier may be required by the City to be placed between the root-ball and the curb and/or sidewalk. Length of strip barrier or size of the box barrier will be specified by the City.
8. Stakes are to be removed when the tree diameter meets or exceeds the diameter of the stake.



A PERMEABLE PAVING



B ADA PICNIC TABLE & BENCH

2 STORY RESIDENTIAL UNITS ABOVE GROUND LEVEL PARKING

PRELIMINARY PROPOSED PLANT PALETTE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	MATURE SIZE (HIGH X WIDTH)	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	MATURE SIZE (HIGH X WIDTH)
ACCENT TREE						SHRUBS - (CONT)					
GIN 'GOL'	GINKGO BILOBA 'GOLDSPIRE'	GOLDSPIRE GINKGO	24" BOX	MED	30' X 25'	PHO 'B.A.'	PHORMIUM 'BLACK ADDER'	NEW ZEALAND FLAX	5 GALLON	LOW	4' X 3'
STREET TREE						PHO 'D.C.'	PHORMIUM 'DUSKY CHIEF'	NEW ZEALAND FLAX	5 GALLON	LOW	8' X 5'
PIS CHI	PISTACHIA CHINENSIS	CHINESE PISTACHE	36" BOX	LOW	35' X 35'	XYL 'COM'	XYLOSMA C. 'COMPACTA'	COMPACT XYLOSMA	5 GALLON	LOW	8' X 8'
SCREENING TREE						SHRUBS - FLOW THROUGH PLANTER / BIO-RETENTION AREA					
GIN 'FAI'	GINKGO BILOBA 'FAIRMONT'	MAIDENHAIR TREE	24" BOX	MED	75' X 25'	CHO ELE	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	5 GALLON	LOW	5' X 6'
SHRUBS						JUN PAT	JUNCUS PATENS	COMMON RUSH	5 GALLON	LOW	2' X 2'
ASP ELA	ASPIDISTRA ELATOR	CAST IRON PLANT	5 GALLON	LOW	3' X 2'	VINES					
DIE IRI	DIETES IRIODIDES	FORTNIGHT LILY	5 GALLON	LOW	4' X 3'	CLE ARM	CLEMATIS ARMANDII	EVERGREEN CLEMATIS	5 GALLON	LOW	
FES MAI	FESTUCA MAIREI	ATLAS FESCUE	5 GALLON	LOW	3' X 3'	GROUNDCOVERS					
GRE 'NOE'	GREVILLEA 'NOELLI'	WOOLY GREVILLEA	5 GALLON	LOW	4' X 5'	ANI 'B.P.'	ANIGOZANTHOS 'BUSH PEARL'	PINK KANGAROO PAW	1 GALLON	LOW	2' X 2'
NAN 'COM'	NANDINA DOMESTICA 'COMPACTA'	DWARF HEAVENLY BAMBOO	5 GALLON	LOW	5' X 3'	CAR TUM	CAREX TUMULICOLA	BERKELEY SEDGE	1 GALLON	LOW	2' X 2'
NEP FAA	NEPETA FAASSENII	CATMINT	5 GALLON	LOW	2' X 3'	ROSEMARY					
						ROSMARINUS 'HUNTINGTON CARPET'					
						1 GALLON ø 36" O.C.					

- NOTES:**
1. ALL TREES SHALL BE PLANTED AND STAKED PER CITY STANDARDS.
 2. TREES BE PLANTED WITHIN 3' OF HARDSCAPE REQUIRE ROOT BARRIERS INSTALLED ADJACENT TO THE HARDSCAPE ELEMENT AT TIME OF TREE PLANTING.
 3. LANDSCAPE AND IRRIGATION SHALL COMPLY WITH CITY'S CURRENT WATER-EFFICIENT LANDSCAPE ORDINANCE.
 4. ALL PLANTING AREAS SHALL BE AUTOMATICALLY IRRIGATED PER CITY STANDARDS. USING LOW-FLOW SPRAY, BUBBLERS OR DRIP METHODS.
 5. ALL PLANTING AREAS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3".
 6. AN AUTOMATIC WEATHER-BASED IRRIGATION CONTROLLER WITH SOIL MOISTURE AND/OR RAIN SENSOR SHALL BE USED.
 7. SHRUBS AND TREES SHALL BE IRRIGATED ON SEPARATE VALVES AND PLANTS SHALL BE HYDROZONED.



NOTE:
1. THE FRIDAY 4-PIECE DINING SET OR EQUAL, AVAILABLE FROM TEAK AND TABLE.
HTTPS://WWW.TEAKANDTABLE.COM/
TEL: (912) 661-4300
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

A PICNIC TABLE W/ UMBRELLA HOLE



NOTE:
1. SAFAVIEH GANNES 9-FOOT WHITE WOOD OUTDOOR UMBRELLA OR EQUAL. COLOR: WHITE. AVAILABLE FROM WWW.OVERSTOCK.COM
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

C CORNHOLE



NOTE:
1. LEDGE LOUNGER OUTDOOR GAMES COLLECTION CORNHOLE SET OR EQUAL. BOARD COLOR: WHITE. AVAILABLE AT WWW.POOLSUPPLYUNLIMITED.COM. TEL: (888) 836-6025
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.



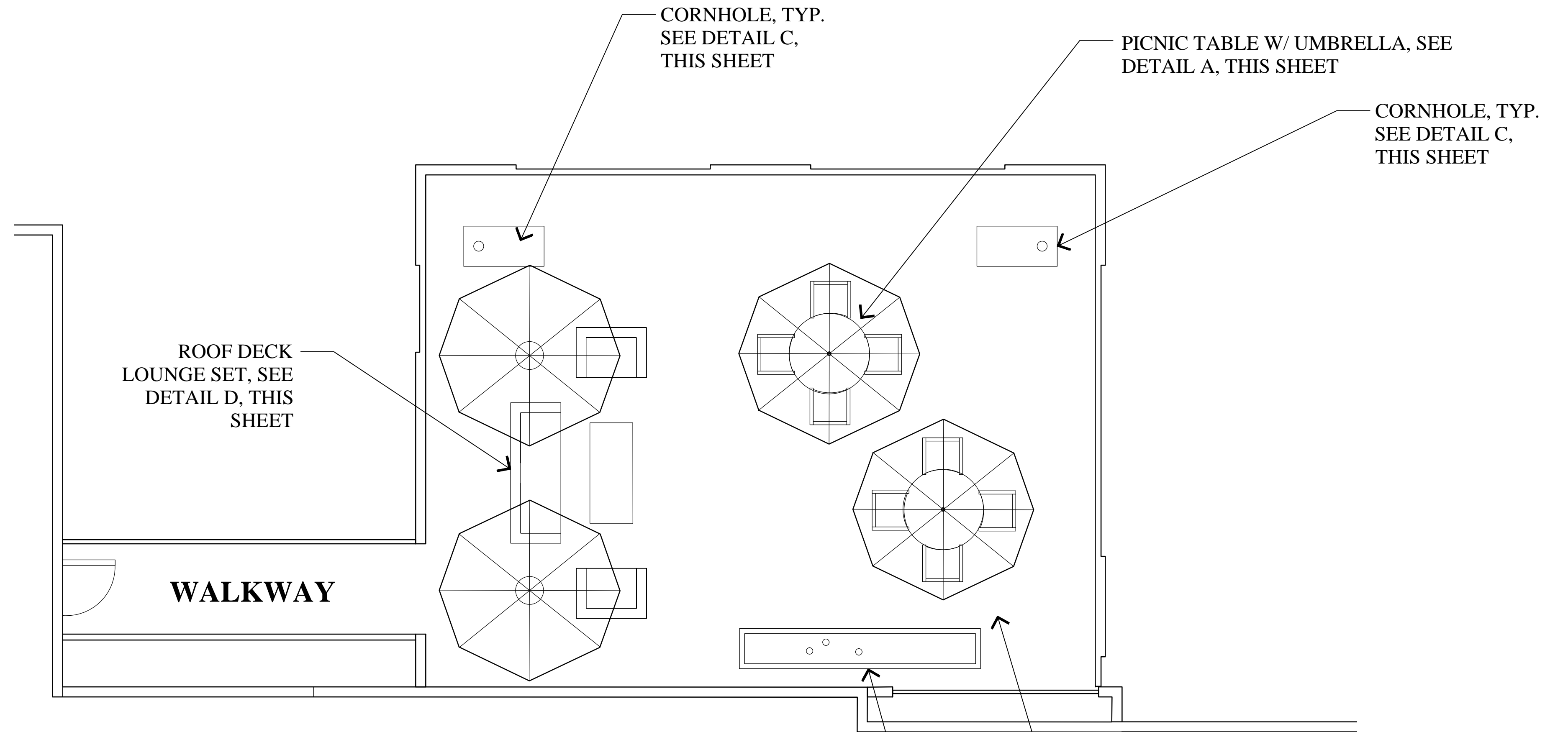
NOTE:
1. HATHAWAY CRESTLINE 12-FT OUTDOOR SHUFFLEBOARD OR EQUAL, AVAILABLE AT HTTPS://WWW.ZORO.COM/ ZORO #: 6100693103
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

B SHUFFLEBOARD

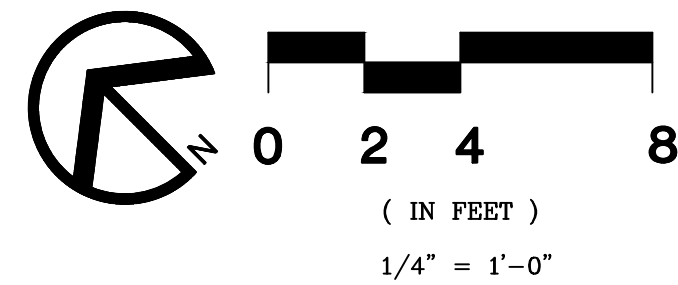


NOTE:
1. HAVANA 4PC LOUNGE SET OR EQUAL, AVAILABLE AT TEAK AND TABLE.
HTTPS://WWW.TEAKANDTABLE.COM/
TEL: (912) 661-4300
2. INSTALL PER MANUFACTURER'S SPECIFICATIONS.

D ROOF DECK LOUNGE SET

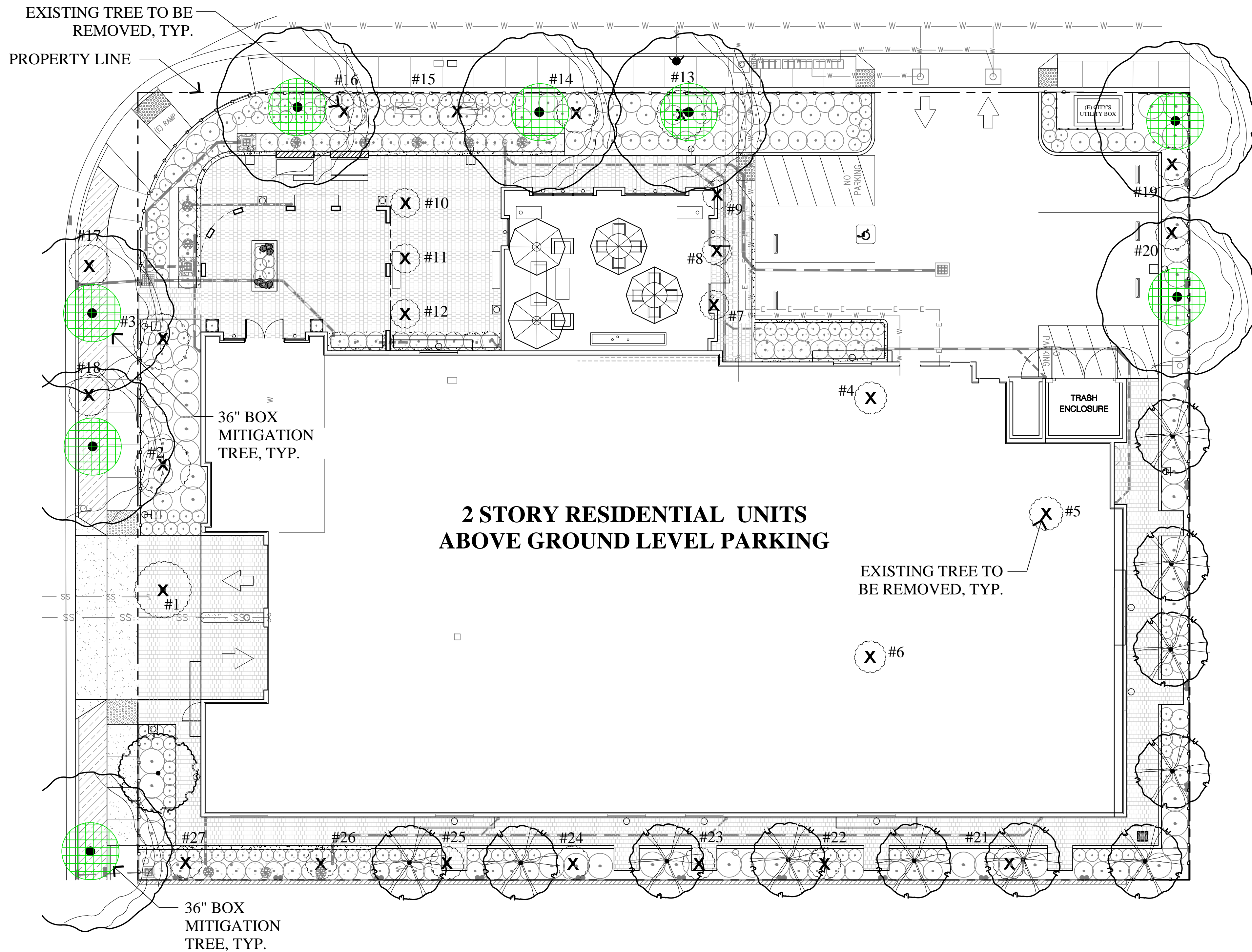


COMMON OPEN SPACE AT ROOF LEVEL



ROOF PAVING TO BE MIRACOTE MIRAFLEX II DECKING SYSTEM OR EQUAL. COLOR: 304 SANDPIPER BEIGE. AVAILABLE FROM WWW.MIRACOTE.COM TEL: (800) 692-3502

OUTDOOR SHUFFLEBOARD, SEE DETAIL B, THIS SHEET



EXISTING TREE SURVEY

Tree#	Species	DBH	CON	H/SP	Comments	Tree#	Species	DBH	CON	H/SP	Comments
1R	Honey locust (<i>Gleditsia triacanthos</i>)	5.4	45	20/12	Fair vigor, poor form, failed limbs, topped in past, sunscald on trunk.	17R	Honey locust (<i>Gleditsia triacanthos</i>)	7.1	45	25/12	Fair vigor, poor form, topped in past.
2R	Honey locust (<i>Gleditsia triacanthos</i>)	6.1	45	20/12	Fair vigor, poor form, topped in past, sunscald on trunk.	18R	Honey locust (<i>Gleditsia triacanthos</i>)	5.4	45	25/12	Fair vigor, poor form, topped in past.
3R	Honey locust (<i>Gleditsia triacanthos</i>)	7.0	45	20/12	Fair vigor, poor form, topped in past, large scar on trunk, sun scald.	19R	Silk tree (<i>Albizia julibrissin</i>)	3.5	65	15/12	Fair vigor, fair form.
4R	Evergreen pear (<i>Pyrus kavakamii</i>)	8.0	60	15/10	Fair vigor, fair form, crossing limbs, surrounded by hardscapes, not enough room for tree.	20R	Silk tree (<i>Albizia julibrissin</i>)	3.5	65	15/12	Fair vigor, fair form.
5R	Evergreen pear (<i>Pyrus kavakamii</i>)	5.1	60	15/10	Fair vigor, fair form, crossing limbs, surrounded by hardscapes, not enough room for tree.	21R	Cherry laurel (<i>Prunus caroliniana</i>)	2.0	70	10/5	Good vigor, fair form, good location.
6R	Evergreen pear (<i>Pyrus kavakamii</i>)	7.7	60	15/10	Fair vigor, fair form, crossing limbs, surrounded by hardscapes, not enough room for tree.	22R	Cherry laurel (<i>Prunus caroliniana</i>)	2.0	70	10/5	Good vigor, fair form, good location.
7R	Queen palm (<i>Syagrus romanzoffiana</i>)	2.2	60	5/5	Good vigor, fair form, poor location, surrounded by hardscapes.	23R	Cherry laurel (<i>Prunus caroliniana</i>)	2.0	70	10/5	Good vigor, fair form, good location.
8R	Queen palm (<i>Syagrus romanzoffiana</i>)	14.5	60	12/10	Good vigor, fair form, poor location, surrounded by hardscapes.	24R	Cherry laurel (<i>Prunus caroliniana</i>)	2.0	70	10/5	Good vigor, fair form, good location.
9R	Queen palm (<i>Syagrus romanzoffiana</i>)	3.0	60	5/5	Good vigor, fair form, poor location, surrounded by hardscapes.	25R	Cherry laurel (<i>Prunus caroliniana</i>)	2.0	70	10/5	Good vigor, fair form, good location.
10R	Queen palm (<i>Syagrus romanzoffiana</i>)	10.5	60	12/10	Good vigor, fair form, poor location, surrounded by hardscapes.	26R	Cherry laurel (<i>Prunus caroliniana</i>)	2.0	70	10/5	Good vigor, fair form, good location.
11R	Queen palm (<i>Syagrus romanzoffiana</i>)	10.6	60	12/10	Good vigor, fair form, poor location, surrounded by hardscapes.	27R	Cherry laurel (<i>Prunus caroliniana</i>)	2.0	70	10/5	Good vigor, fair form, good location.
12R	Queen palm (<i>Syagrus romanzoffiana</i>)	2.2	60	5/5	Good vigor, fair form, poor location, surrounded by hardscapes.						
13R	Mexican fan palm (<i>Washingtonia robusta</i>)	15.1	50	30/5	Fair vigor, fair form, poor location under overhead utility lines.						
14R	Honey locust (<i>Gleditsia triacanthos</i>)	4.7	65	20/10	Good vigor, fair form, well maintained.						
15R	Honey locust (<i>Gleditsia triacanthos</i>)	5.7	65	20/10	Good vigor, fair form, well maintained.						
16R	Honey locust (<i>Gleditsia triacanthos</i>)	5.3	65	20/10	Good vigor, fair form, well maintained.						

Appraised values:

Tree #1- \$130	Tree #11- \$540	Tree #21- \$130
Tree #2- \$180	Tree #12- \$230	Tree #22- \$130
Tree #3- \$240	Tree #13- \$750	Tree #23- \$130
Tree #4- \$560	Tree #14- \$200	Tree #24- \$130
Tree #5- \$240	Tree #15- \$270	Tree #25- \$130
Tree #6- \$560	Tree #16- \$200	Tree #26- \$130
Tree #7- \$230	Tree #17- \$250	Tree #27- \$130
Tree #8- \$540	Tree #18- \$140	
Tree #9- \$230	Tree #19- \$150	
Tree #10- \$540	Tree #20- \$150	

(Trees in bold to be removed)
Appraised value of all trees being removed = \$7,240

R-Indicates proposed removal - See Symbol 'X' on plan

REFER TO ARBORIST REPORT PREPARED BY KIELTY ARBORIST SERVICES LLC. WE#0476A

NOTE:
THIS PROJECT PROPOSES TO REMOVE (27) EXISTING TREES, (20) NEW TREES ARE PROPOSED, (8) 24" BOX TREES ARE UPSIZED TO 36" BOX FOR MITIGATION. REMAINDER OF TREE MITIGATION SHALL BE SATISFIED BY IN-LIEU FEES.

NOTE:
ROOF PRUNING, TREE PRUNING, TREE REMOVAL SHALL BE DONE WITH A TREE PERMIT FROM THE CITY. PERMIT IS REQUIRED IN ADDITION TO DEMOLITION AND/OR GRADING PERMITS. TREE PERMITS SHALL BE OBTAINED THROUGH CITY LANDSCAPE ARCHITECT.

Tree Protection Plan:
No tree protection plan is needed as all trees are proposed for removal on site.

The information included in this report is believed to be true and based on sound arboricultural principles and practices.
Sincerely, Kevin R. Kielty Certified Arborist WE#0476A

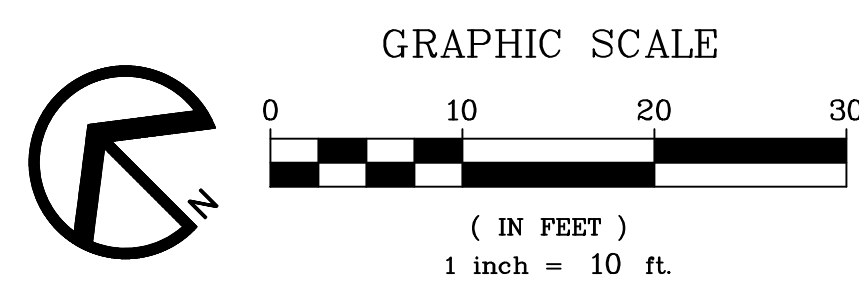
LEGEND

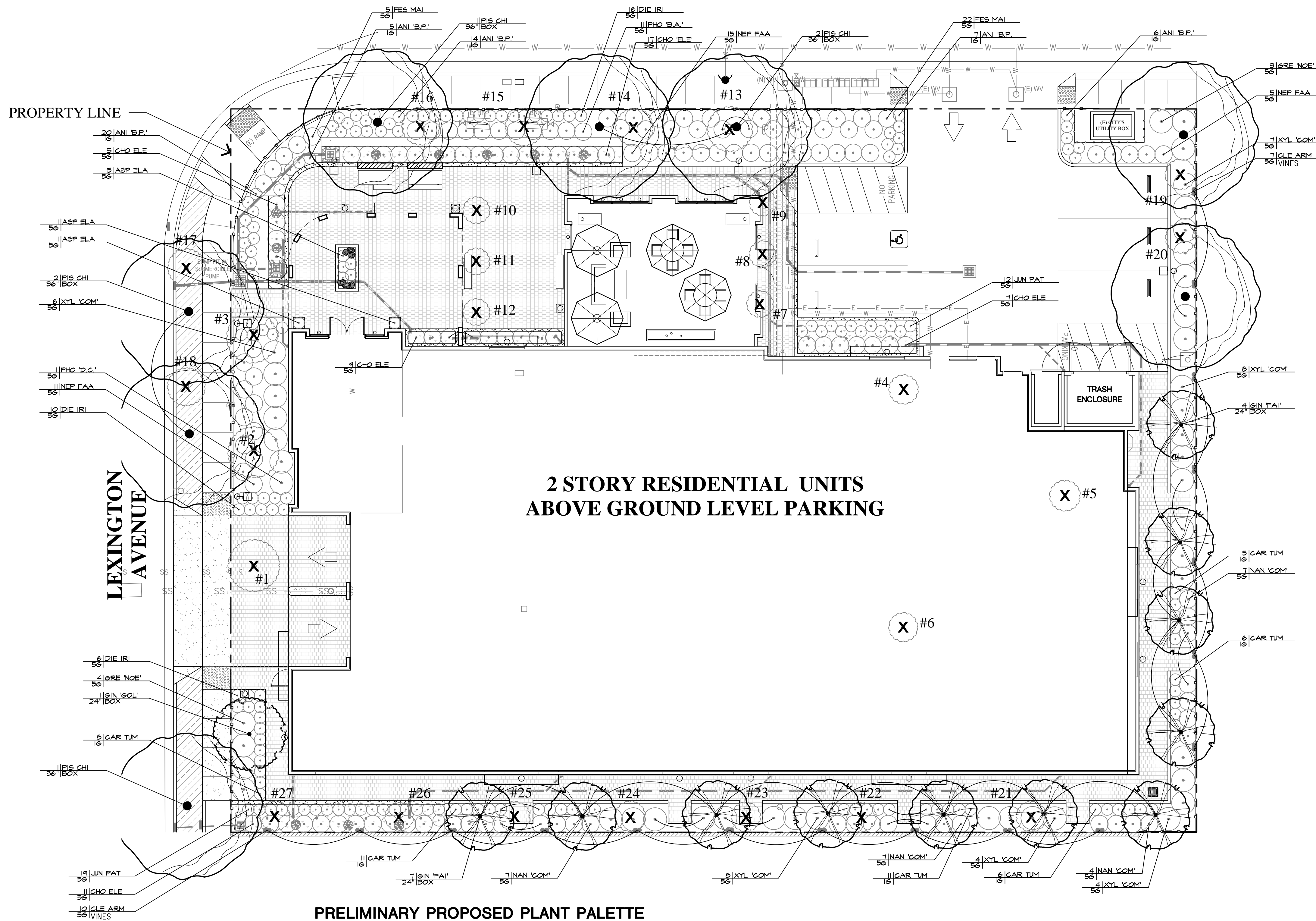


PROPOSED TREE MITIGATION UPGRADE CHART

COST OF MATERIALS- TREE UPGRADES	15 GALLON	24" BOX	36" BOX	60" BOX	IMPROVEMENT COST	PROPOSED QUANTITY	COST OF IMPROVEMENT
	Replace (8) 24" Box Trees with (8) 36" Box Trees	n/a	\$150.00 ea.	\$500.00 ea.			
TOTAL MATERIAL UPGRADES=							\$2,800.00

TOTAL PROPOSED TREE UPGRADE MITIGATION COSTS: \$2,800





**2 STORY RESIDENTIAL UNITS
ABOVE GROUND LEVEL PARKING**

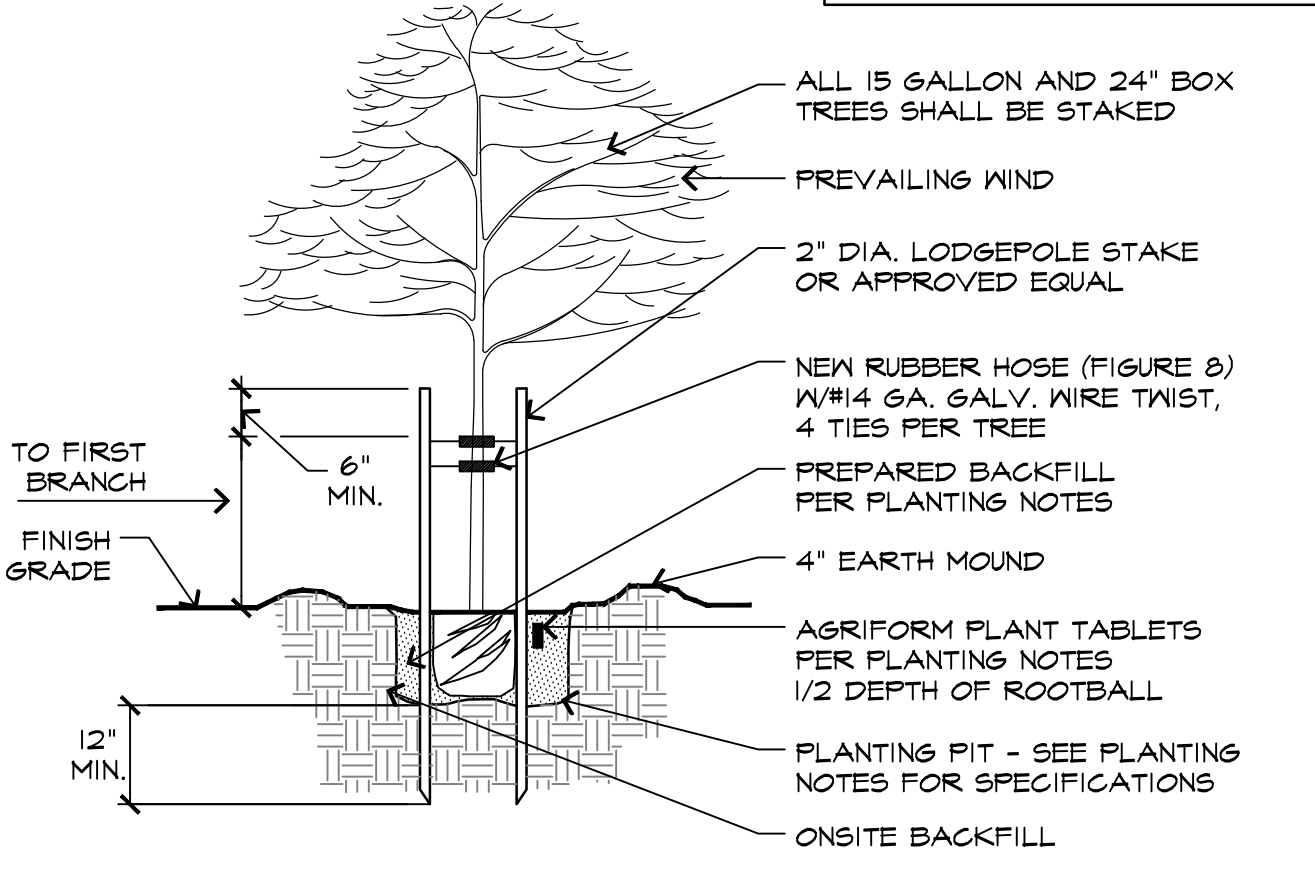
PLANTING NOTES

1. THE CONTRACTOR SHALL MAINTAIN A QUALIFIED SUPERVISOR ON THE SITE AT ALL TIMES DURING CONSTRUCTION THROUGH COMPLETION OF PICK-UP WORK.
2. THE CONTRACTOR SHALL FURNISH AND PAY FOR ALL FORMS OF PLANT MATERIALS AND SPECIFIED INSTALLATIONS, INCLUDING FLATTED GROUNDCOVER.
3. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATION AND STAKING ALL SEWER, UTILITY AND WATER MAIN LINES PRIOR TO PLANTING. LANDSCAPE CONTRACTOR SHALL ASSUME SOLE RESPONSIBILITY FOR ANY COSTS INCURRED DUE TO DAMAGE AND REPLACEMENT OF SAID UTILITIES. CALL COMMON GROUND ALLIANCE (CGA) AT 811 TO LOCATE AND MARK UTILITIES PRIOR TO EXCAVATION.
4. SOIL PREPARATIONS: GROUNDCOVER AND TURF AREAS SHALL BE CROSSRIPPED OR TILLED TO A DEPTH OF NINE (9) INCHES. THE AMENDMENT SHALL BE UNIFORMLY BROADCAST PER 1,000 S.F. AND THOROUGHLY INCORPORATED TO A DEPTH OF 9" BY MEANS OF ROTOTILLER OR EQUAL. THE FOLLOWING FORMULA SHALL BE USED FOR BIDDING PURPOSES ONLY:
6 CU.YDS. ORGANIC AMENDMENT
35 LBS. 6-20-20 COMMERCIAL FERTILIZER
50 LBS. IRON SULFATE (20% Fe)
5. BACKFILL FOR TREES AND SHRUBS: THE PLANTING PITS FOR TREES AND SHRUBS SHALL BE EXCAVATED TO TWICE THE DIAMETER AND TO THE DEPTH OF THE ROOTBALL. ON SITE SOIL SHALL BE USED FOR BACKFILL PURPOSES. THE FOLLOWING MIX SHALL BE USED FOR BIDDING PURPOSES ONLY:
6 PARTS BY VOLUME ON SITE SOIL
4 PARTS BY VOLUME ORGANIC AMENDMENT PER ABOVE
2LB./CU.YD. OF MIX 6-20-20
2LB./CU.YD. OF MIX IRON SULFATE PER CU.YD. OF MIX
6. ALL SOIL AMENDMENTS SPECIFIED ARE FOR BIDDING PURPOSES ONLY. ONCE SITE HAS BEEN ROUGH GRADED, CONTRACTOR SHALL OBTAIN A SOILS REPORT FROM WAYPOINT ANALYTICAL CALIFORNIA, INC. (409-727-0330) FOR SOIL AMENDMENTS. CONTRACTOR TO SUBMIT ONE COPY OF THE SOILS REPORT TO THE CITY, ONE COPY TO THE OWNER, AND ONE COPY TO THE LANDSCAPE ARCHITECT FOR USE IN PROVIDING UPDATED IRRIGATION SCHEDULING RECOMMENDATIONS TO BE INCLUDED PRIOR TO APPROVAL OF CERTIFICATE OF COMPLIANCE. CONTRACTOR SHALL FOLLOW THE SOIL PREPARATION AND BACKFILL MIX PER THE REPORT.
7. ALL 5 GALLON SHRUBS SHALL RECEIVE TWO (2) 21 GRAM AGRIFORM PLANTING TABLETS, ALL 15 GALLON TREES SHALL RECEIVE FOUR (4) 21 GRAM AGRIFORM PLANTING TABLETS AND ALL BOX TREES SHALL RECEIVE EIGHT (8) 21 GRAM AGRIFORM TABLETS.
8. ALL SHRUB AND GROUNDCOVER PLANTING AREAS SHALL BE MULCHED TO A MINIMUM DEPTH OF 3". MULCH TO BE RECYCLED WOOD WASTE, COLOR TO BE BROWN, 1/4" TO 1" DIAMETER FROM WASTE MANAGEMENT, INC., SACRAMENTO, (916-452-0142).
9. CONTRACTOR SHALL SPRAY ALL EXISTING WEEDS IN PLANTING AREAS PRIOR TO RIPPING AND APPLY PRE-EMERGENT TO ALL SHRUB AREAS AFTER PLANTING.
10. CONTRACTORS SHALL APPLY FERTILIZER AND PRE-EMERGENT AT END OF MAINTENANCE PERIOD.
11. LANDSCAPE ARCHITECT AND/OR OWNER RESERVES THE RIGHT TO SELECT OR REJECT ANY OR ALL PLANT MATERIAL.
12. REFER TO TREE PLANTING/STAKING DETAIL A, THIS SHEET.
13. THIS PLAN COMPLIES WITH THE CRITERIA OF THE CITY'S WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIES THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLAN.

PLANT CALLOUT SYMBOL KEY

PLANT QTY SIZE	PLANT SYMBOL UNITS

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF CITY OF HAYWARD BAY-FRIENDLY WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN.



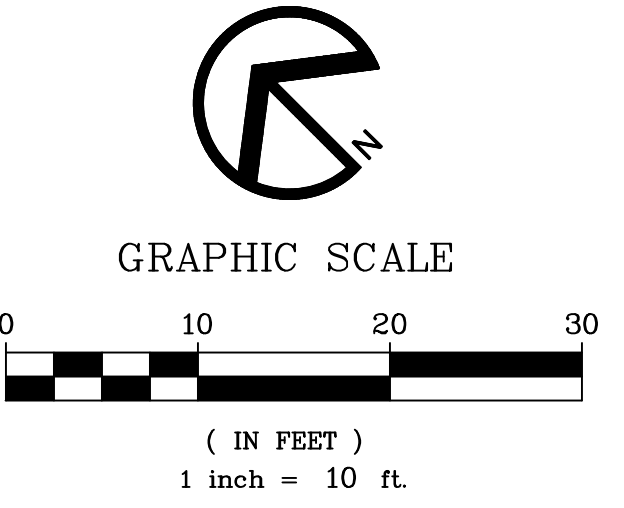
NOTE:
1. ROOT CONTROL BARRIER PANELS SHALL BE REQUIRED WHERE TREES IS WITHIN 10' FROM PAVING. ROOT SOLUTIONS ROOT BARRIER OR EQUAL MAY BE USED. LENGTH OF BARRIER TO BE CENTERED ON TREE.

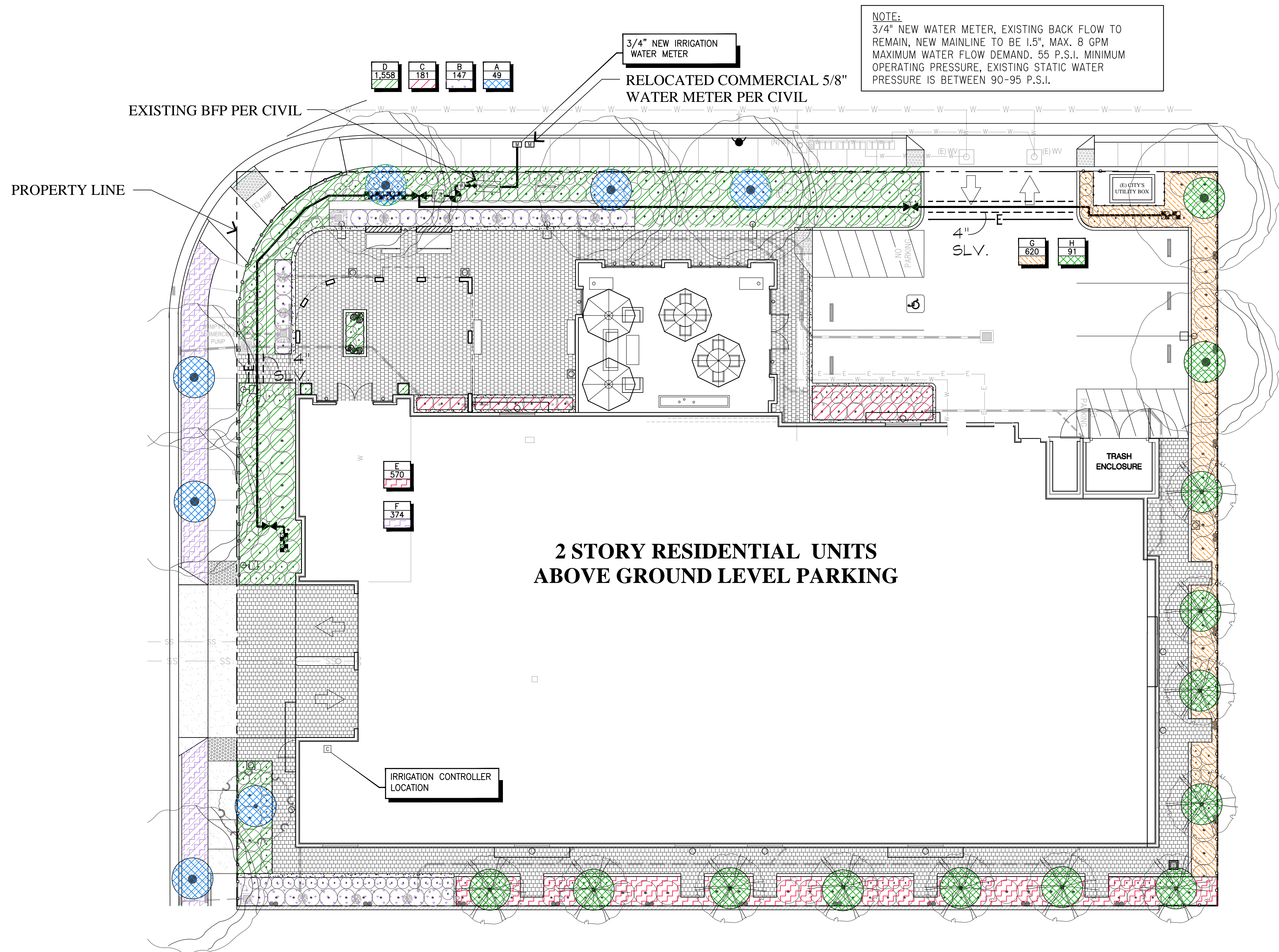
A TREE PLANTING AND STAKING DETAIL SCALE: 1/2" = 1'-0"

PRELIMINARY PROPOSED PLANT PALETTE

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	MATURE SIZE (HIGH X WIDTH)	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	WATER USE	MATURE SIZE (HIGH X WIDTH)
ACCENT TREE						SHRUBS - (CONT)					
GIN 'GOL'	GINKGO BILOBA 'GOLDSPIRE'	GOLDSPIRE GINKGO	24" BOX	MED	30' X 25'	PHO 'B.A.'	PHORMIUM 'BLACK ADDER'	NEW ZEALAND FLAX	5 GALLON	LOW	4' X 3'
STREET TREE						PHO 'D.C.'	PHORMIUM 'DUSKY CHIEF'	NEW ZEALAND FLAX	5 GALLON	LOW	8' X 5'
PIS CHI	PISTACHIA CHINENSIS	CHINESE PISTACHE	36" BOX	LOW	35' X 35'	XYL 'COM'	XYLOSMA C. 'COMPACTA'	NEW ZEALAND FLAX	5 GALLON	LOW	8' X 8'
SCREENING TREE						SHRUBS - FLOW THROUGH PLANTER / BIO-RETENTION AREA					
GIN 'FAI'	GINKGO BILOBA 'FAIRMONT'	MAIDENHAIR TREE	24" BOX	MED	75' X 25'	CHO ELE	CHONDROPETALUM ELEPHANTINUM	LARGE CAPE RUSH	5 GALLON	LOW	5' X 6'
SHRUBS						JUN PAT	JUNCUS PATENS	COMMON RUSH	5 GALLON	LOW	2' X 2'
ASP ELA	ASPIDISTRA ELATIOR	CAST IRON PLANT	5 GALLON	LOW	3' X 2'	●● VINES					
DIE IRI	DIETES IRIDIODES	FORTNIGHT LILY	5 GALLON	LOW	4' X 3'	CLE ARM	CLEMATIS ARMANDII	EVERGREEN CLEMATIS	5 GALLON	LOW	
FES MAI	FESTUCA MAIREI	ATLAS FESCUE	5 GALLON	LOW	3' X 3'	GROUNDCOVERS					
GRE 'NOE'	GREVILLEA 'NOELLI'	WOOLY GREVILLEA	5 GALLON	LOW	4' X 5'	ANI 'B.P.'	ANIGOZANTHOS 'BUSH PEARL'	PINK KANGAROO PAW	1 GALLON	LOW	2' X 2'
NAN 'COM'	NANDINA DOMESTICA 'COMPACTA'	DWARF HEAVENLY BAMBOO	5 GALLON	LOW	5' X 3'	CAR TUM	CAREX TUMULICOLA	BERKELEY SEDGE	1 GALLON	LOW	2' X 2'
NEP FAA	NEPETA FAASSENII	CATMINT	5 GALLON	LOW	2' X 3'	■ ROSMARINUS 'HUNTINGTON CARPET'					
						■ 1 GALLON @ 36" O.C.					

NOTE: PLANT MATERIAL WATER VERIFIED WITH ONLINE WUCOLS LANDSCAPE WATER-USE PLANNING TOOL. WWW.WATERWONK.US





**2 STORY RESIDENTIAL UNITS
ABOVE GROUND LEVEL PARKING**

NOTE:
I HAVE COMPLIED WITH THE CRITERIA OF CITY OF HAYWARD BAY-FRIENDLY WATER EFFICIENT LANDSCAPE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE AND IRRIGATION DESIGN PLAN.

LANDSCAPE HYDROZONE LEGEND

- ZONE A: PARTIAL TO FULL SUN, TREES WITH TWO BUBBLERS PER TREE. MEDIUM WATER USE.
- ZONE B: BIO-RETENTION SHRUBS WITH DRIP EMITTERS. LOW WATER USE.
- ZONE C: FLOW THROUGH PLANTERS SHRUBS WITH DRIP EMITTERS. LOW WATER USE.
- ZONE D: PARTIAL TO FULL SUN, DROUGHT TOLERANT PLANTING WITH DRIP EMITTERS. LOW WATER USE.
- ZONE E: PARTIAL TO FULL SHADE, DROUGHT TOLERANT PLANTING WITH DRIP EMITTERS. LOW WATER USE.
- ZONE F: PARTIAL TO FULL SUN, RIGHT-OF-WAY AREA PLANTING WITH DRIP EMITTERS. LOW WATER USE.
- ZONE G: PARTIAL TO FULL SHADE, DROUGHT TOLERANT PLANTING WITH DRIP EMITTERS. LOW WATER USE.
- ZONE H: PARTIAL TO FULL SUN, TREES WITH TWO BUBBLERS PER TREE. LOW WATER USE.

WATER BUDGET CALCULATIONS:

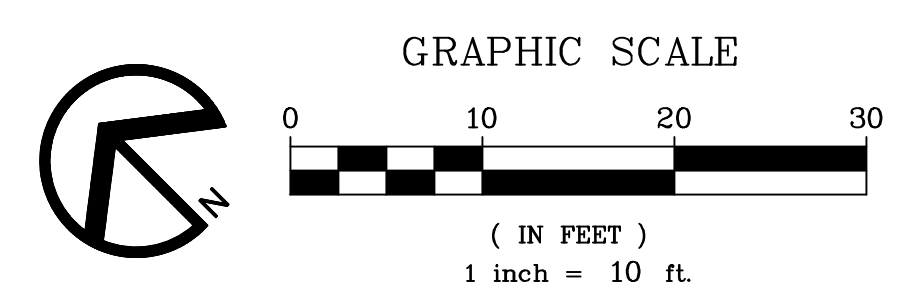
LOW WATER USE SHRUB PLANTING AREA = 3,450 SF
 LOW WATER USE TREE PLANTING AREA = 91 SF
 MEDIUM WATER USE TREE PLANTING AREA = 49 SF
TOTAL PLANTING AREA = 3,590 SF

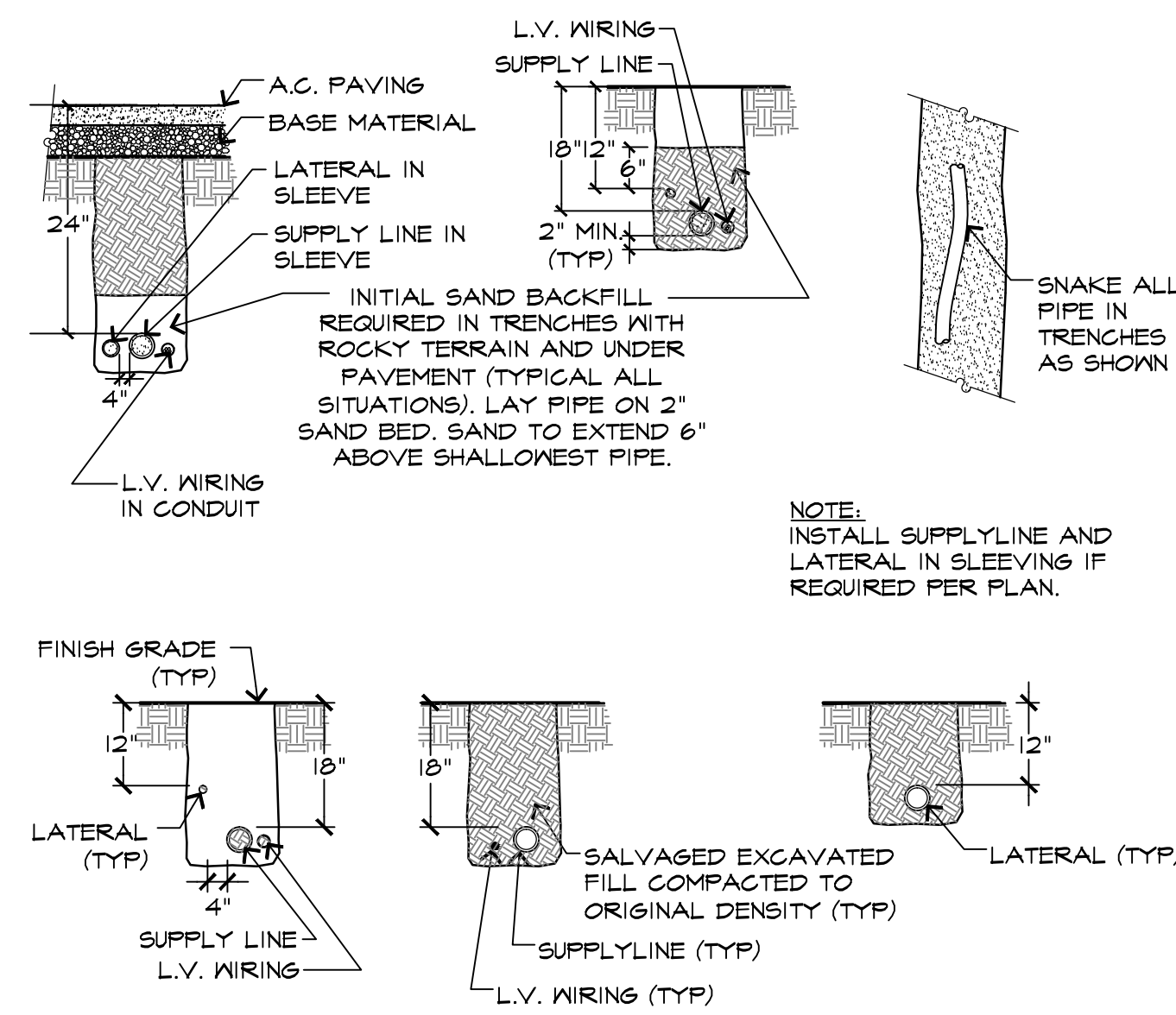
ESTIMATED TOTAL WATER USE:
 ETWU (LOW WATER USE PLANTING AREA) = $(44.2) \times (0.62) \times (0.2 \times 3,541) = 27,335 \text{ GAL/YR}$
 ETWU (LOW WATER USE PLANTING AREA) = $(44.2) \times (0.62) \times (0.4 \times 49) = 757 \text{ GAL/YR}$
TOTAL ETWU = 28,092 GAL/YR

MAXIMUM APPLIED WATER ALLOWANCE:
 MAWA (TOTAL LANDSCAPED AREA) = $(44.2) \times (0.62) \times (0.45 \times 3,590) = 44,271 \text{ GAL/YR}$

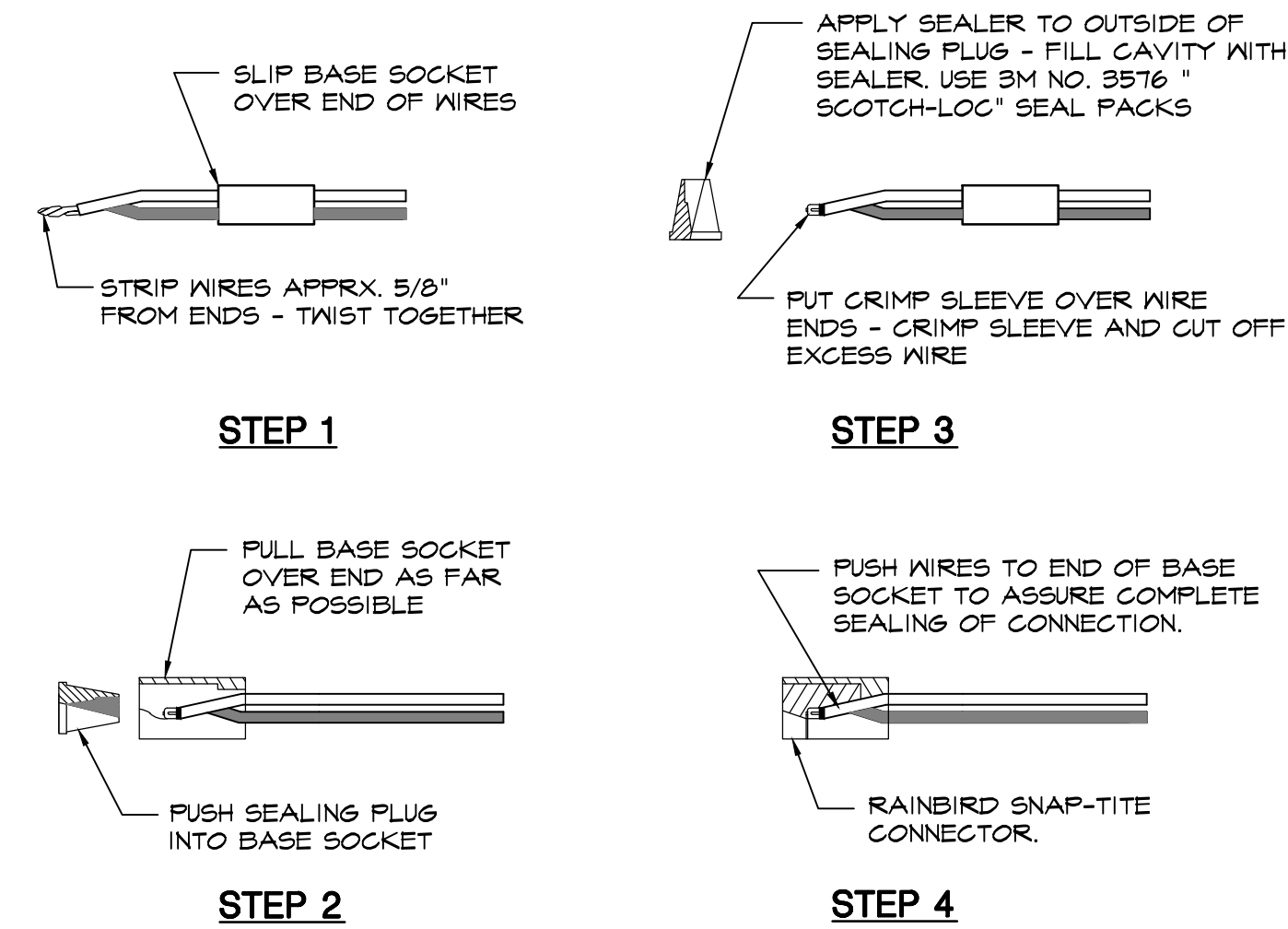
IRRIGATION SYSTEM LEGEND

SYMBOL	DESCRIPTION	SPECIFICATION	NOZZLE GPM	OPERATING PSI
	IRRIGATION WATER METER	-EXISTING PER CIVIL		
	ELECTRIC CONTROLLER	-TORO-EVO-4ID/EMOD-4/EUO-SC/EVO-WS (ET-BASED)		
	MASTER VALVE	-TORO REMOTE CONTROL ELECTRIC GLOBE VALVE W/ FLOW CONTROL NO. 220-26-06		
	PRESSURE REDUCER	-ZURN NR3XL OR EQUAL		
	FLOW SENSOR	-TORO FLOW SENSOR-TFS-150 OR EQUIVALENT		
	REMOTE CONTROL VALVES	-TORO 700 SERIES		
	REMOTE CONTROL VALVES	-TORO 700 SERIES W/REGULATOR & FILTER		
	BALL VALVE (master shut off)	-NIBCO-T-560-BR-20-IRR-LINE SIZE		
	QUICK COUPLER	-RAINBIRD-44LRC OR EQUAL		
	BUBBLER (SHRUB)	-PEPCO-OCTA-BUBBLER	.27	30
	BUBBLER (TREE)	-HUNTER AFB (2 PER TREE)	.25	30
	IRRIGATION SUPPLYLINE - 1"	-1120/SCHEDULE 40 PVC PIPE		-18" COVER
	IRRIGATION SPRINKLERLINE (NOT SHOWN)	-1120/CLASS 200 PVC PIPE		-12" COVER
	ELECTRICAL CONDUIT	-1120/SCHEDULE 80 PVC PIPE		-24" COVER
	SLEEVING	-1120/SCHEDULE 80 PVC PIPE		-24" COVER
	HYDROZONE/CONTROLLER STATION NUMBER			
	AREA OF COVERAGE (SF)			
	HATCH PATTERN OF AREA			

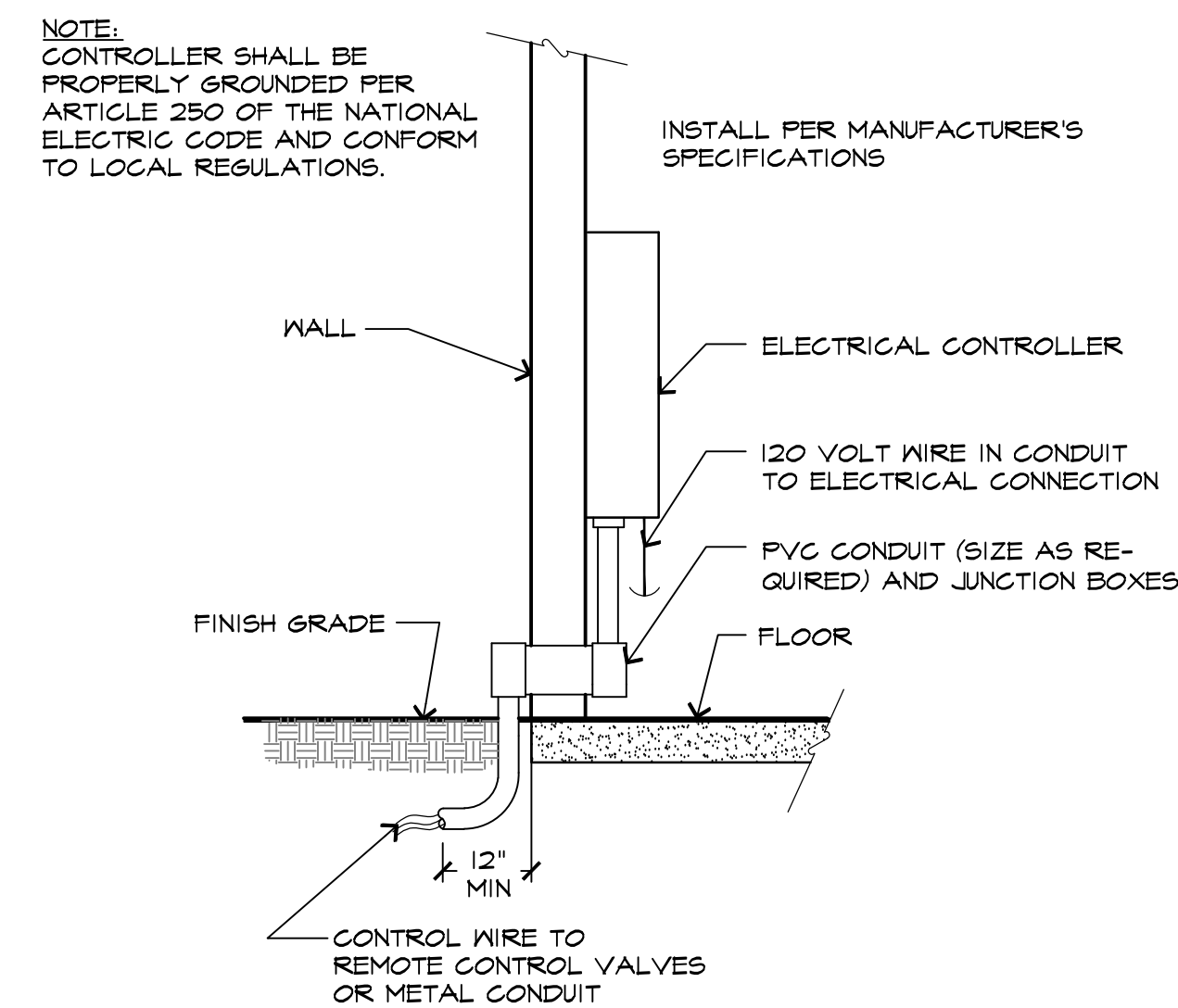




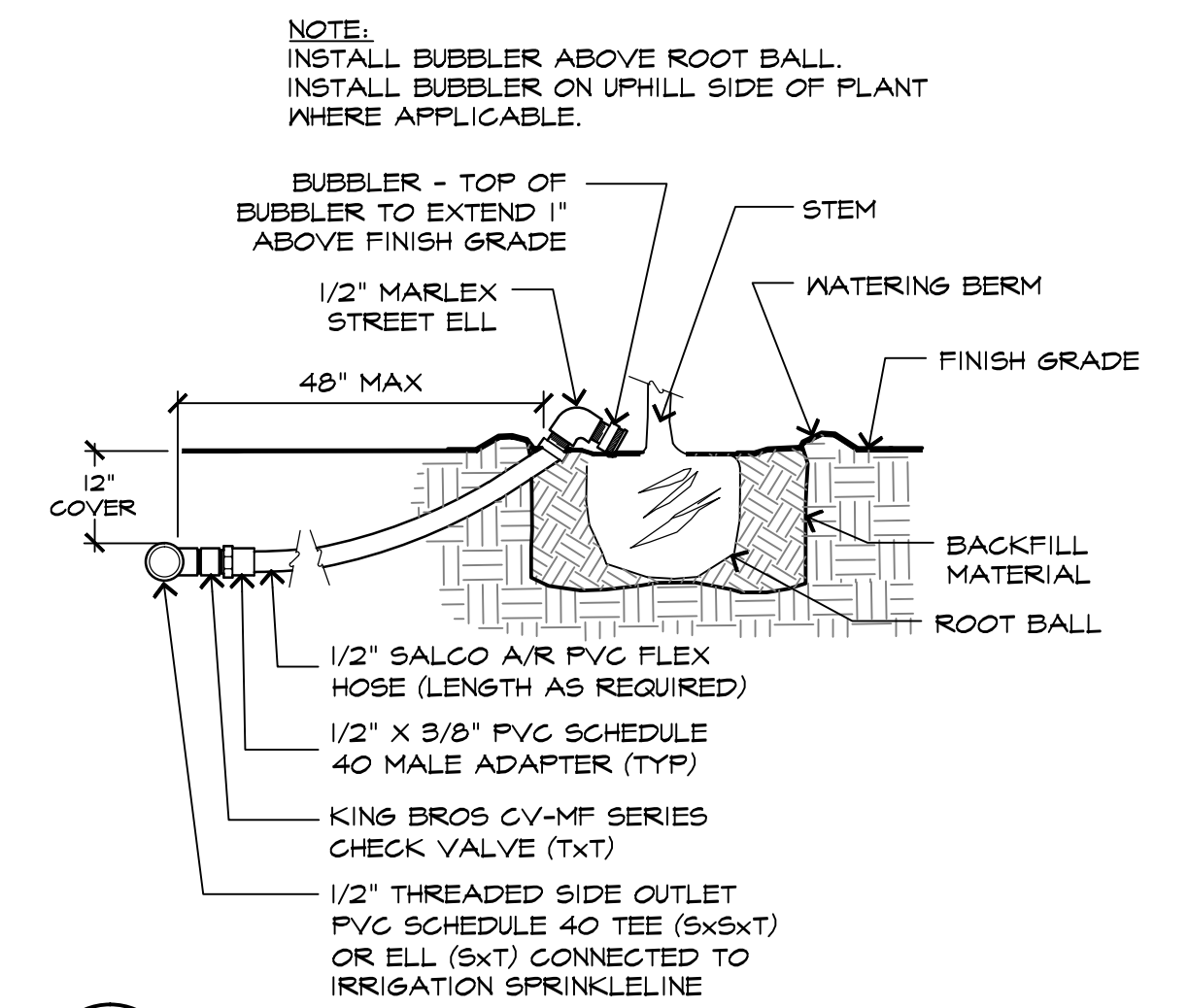
A TRENCHING DETAILS SCALE: 1/2" = 1'-0" 024 -



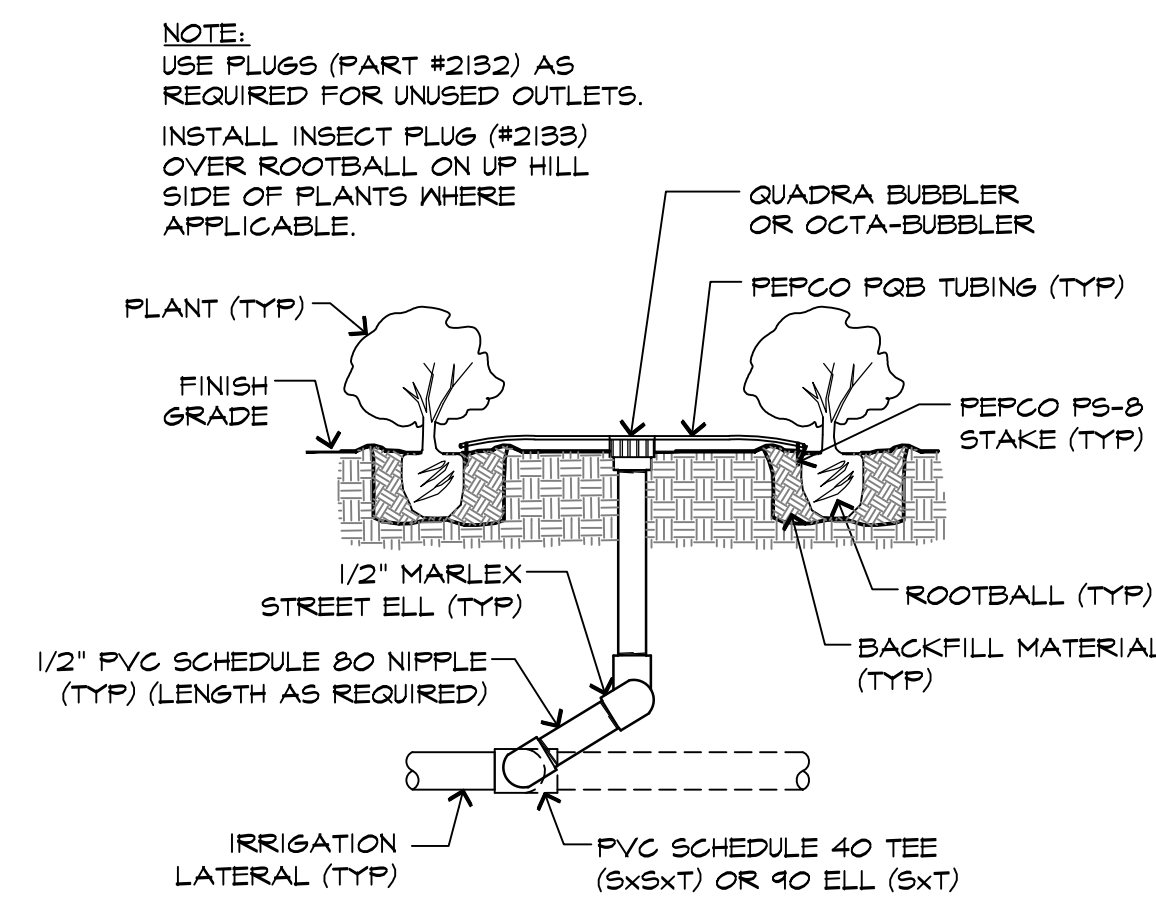
B WIRE CONNECTION SCALE: 3/4" = 1'-0" 016 -



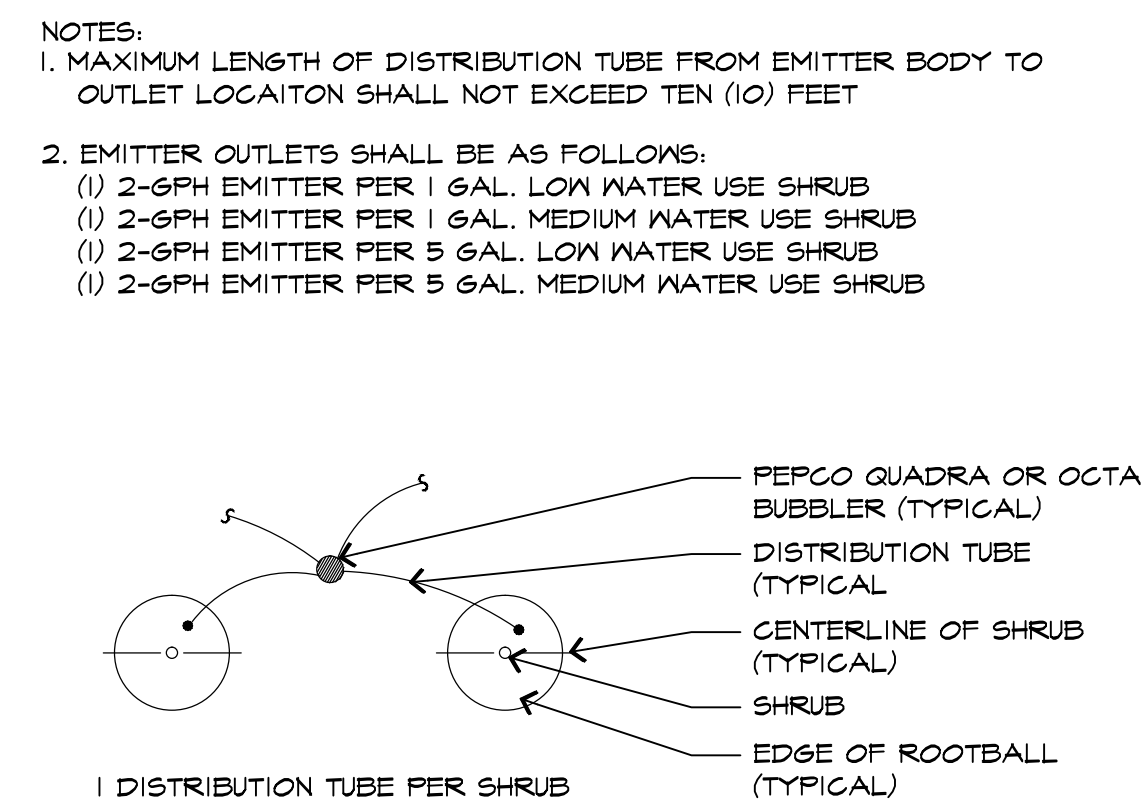
C WALL MOUNT CONTROLLER INSTALLATION SCALE: Not To Scale 024 - RAINMGR



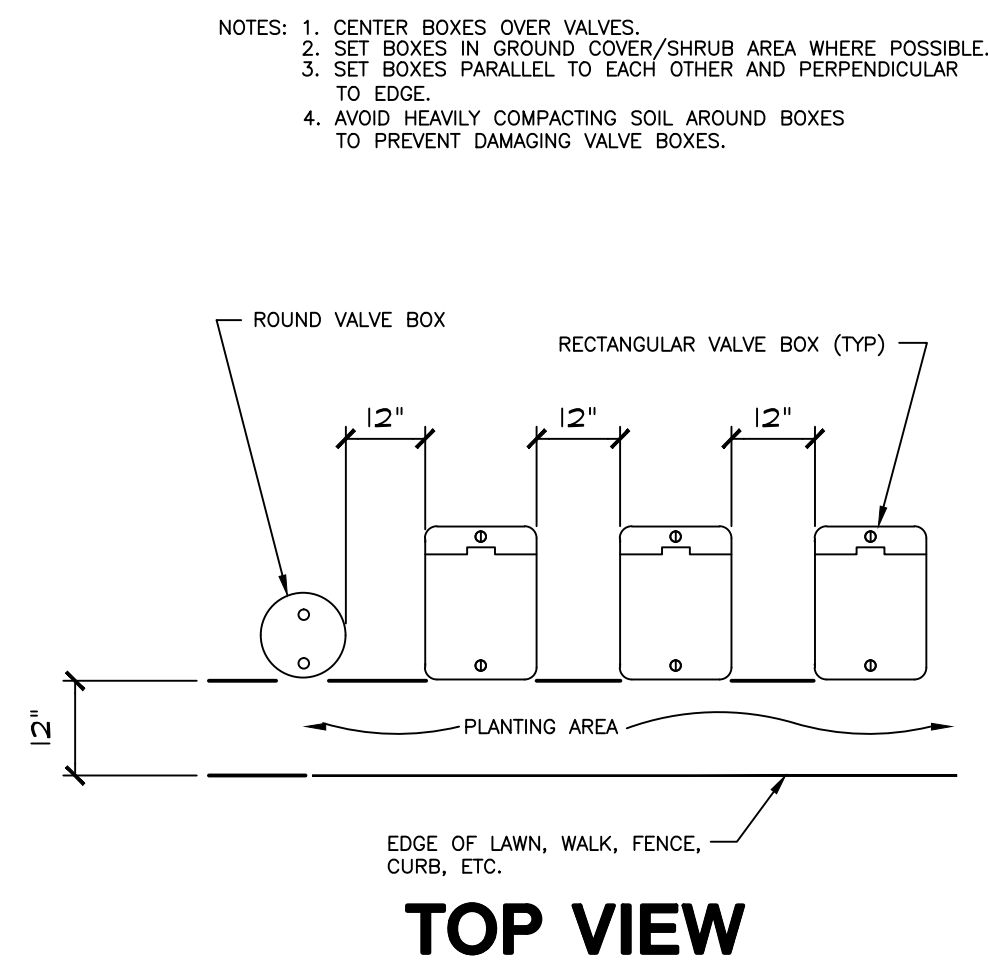
D BUBBLER INSTALLATION FOR TREES IN GC/BARK AREAS SCALE: Not To Scale 024 - DIRTrees



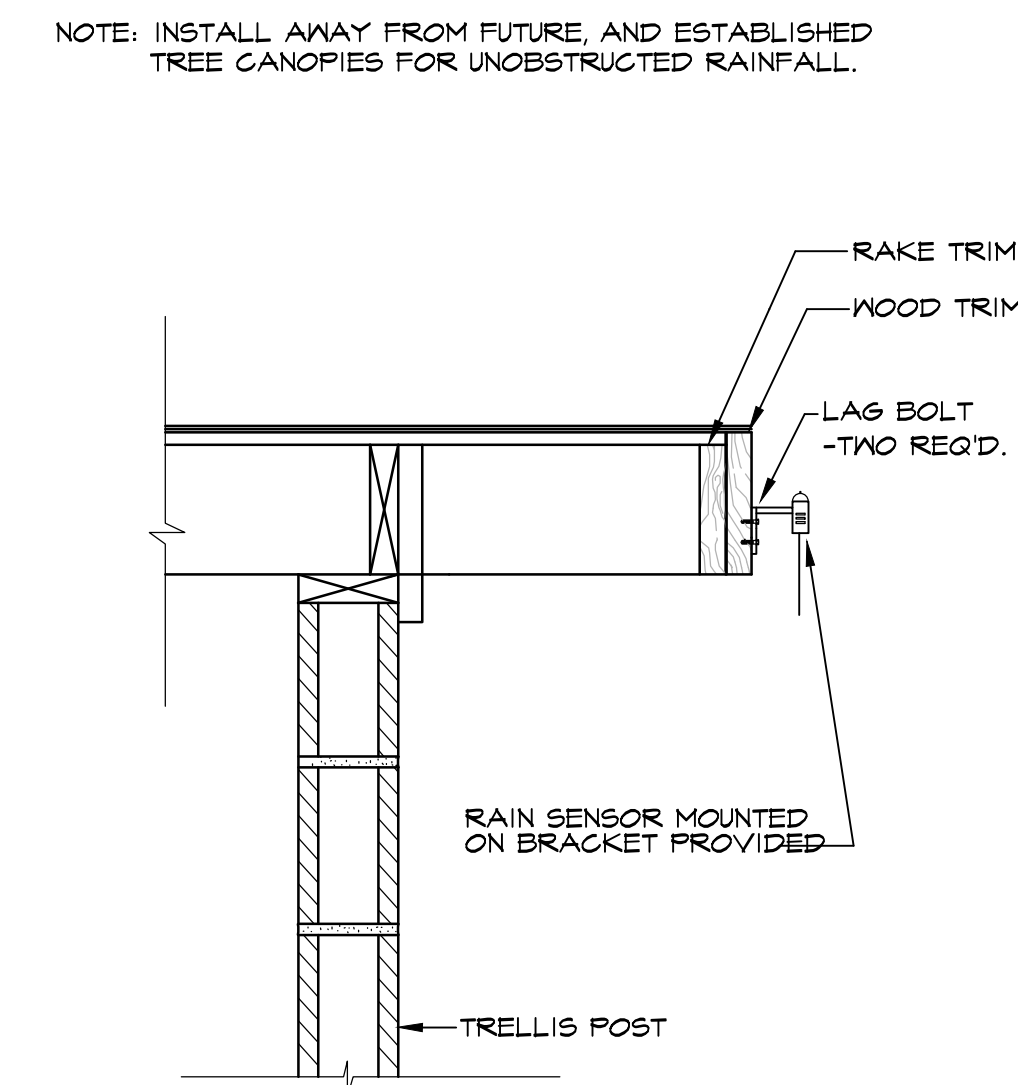
E OCTA-BUBBLER OR QUADRA-BUBBLER INSTALLATION SCALE: 1/2" = 1'-0" 024 -



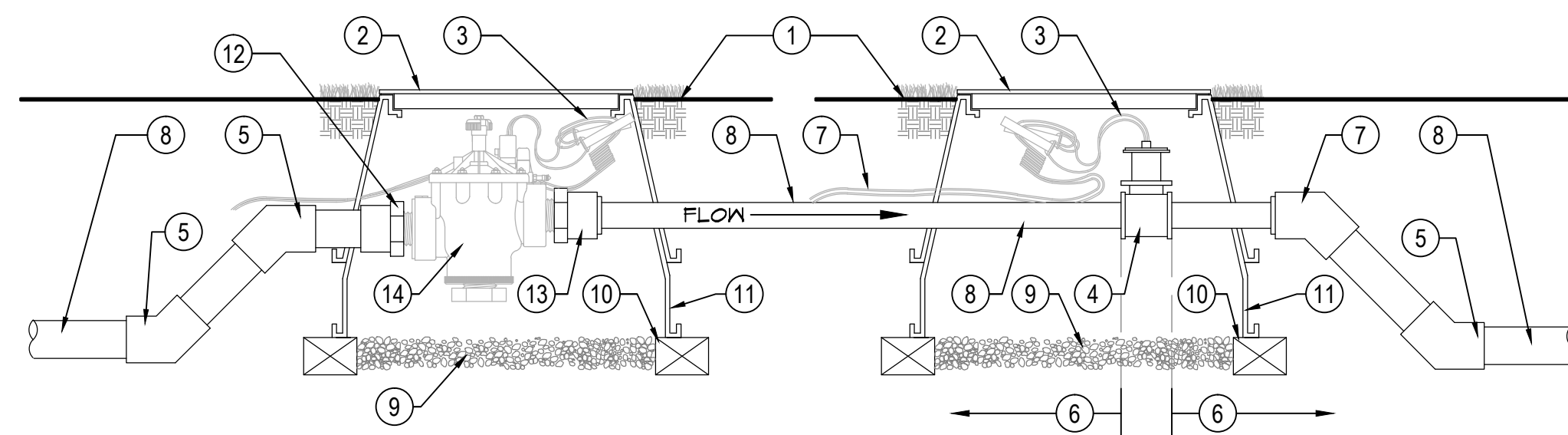
F EMITTER TUBE PLACEMENT SCALE: 3/4" = 1'-0" 016 -



G VALVE BOX INSTALLATION DETAIL SCALE: NTS 016 -



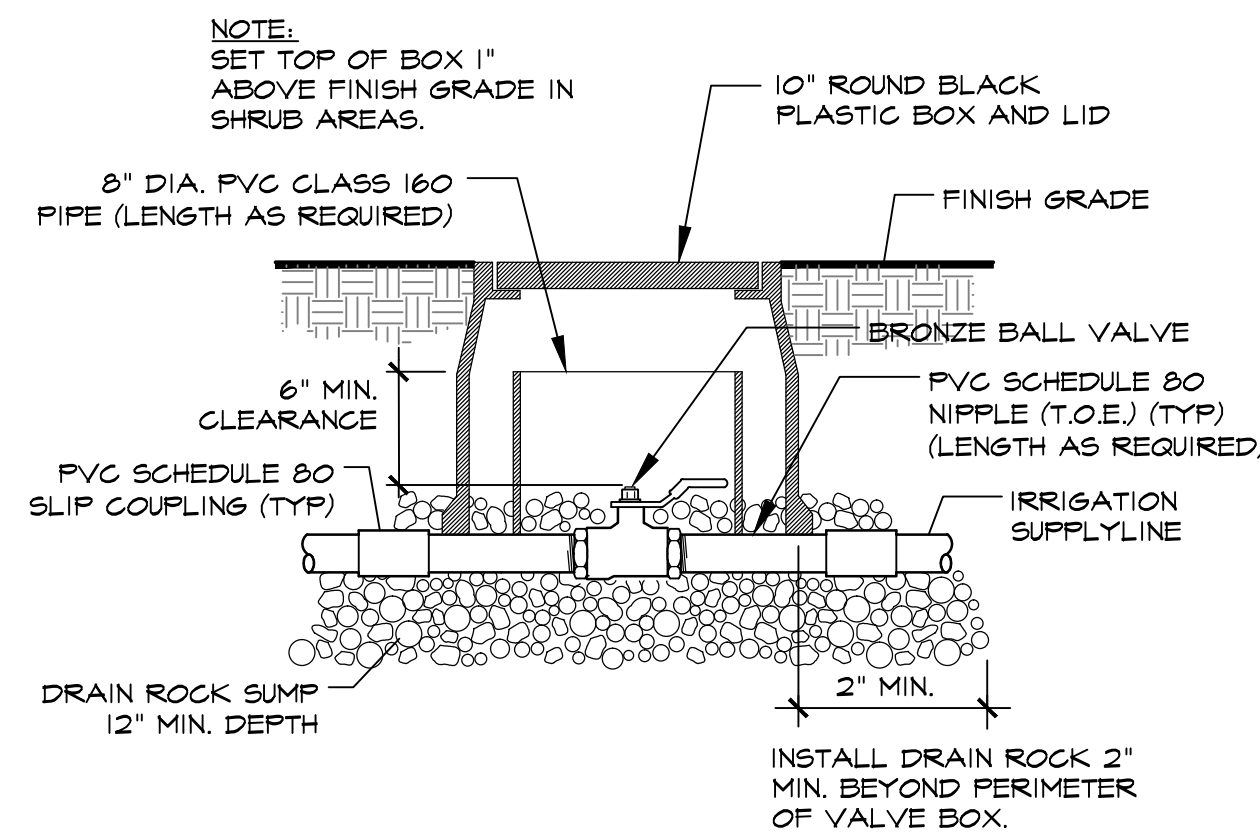
H STRUCTURE RAIN SENSOR MOUNT SCALE: NTS 016 - RAINSENS



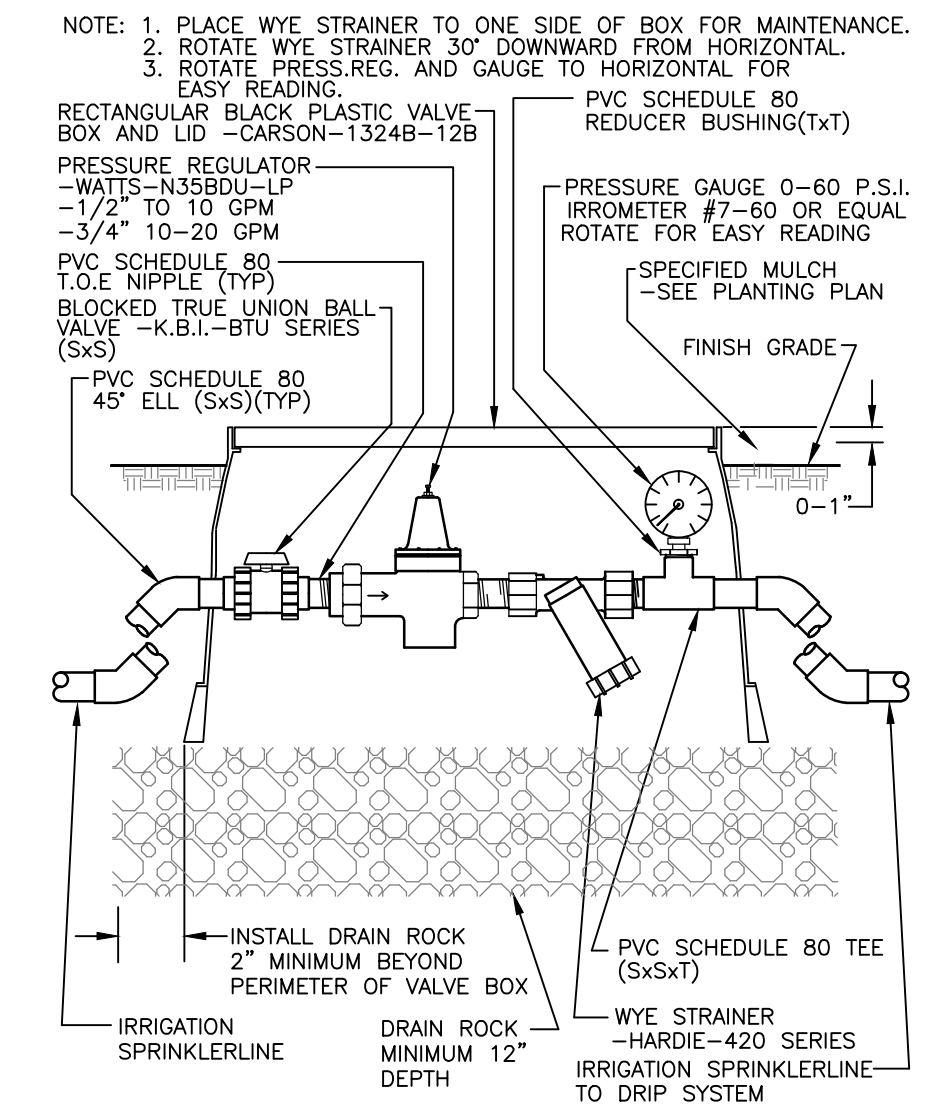
- 1 FINISH GRADE
- 2 CARSON 1419 PLASTIC VALVE BOX & COVER
- 3 CONTROL WIRES WITH 12" MIN. SERVICE COIL AND WATERPROOF WIRE SPLICE CONNECTORS - WIRE COLORS PER SPECIFICATIONS
- 4 TORO FLOW SENSOR- TFS-150
- 5 PVC 45 DEGREE ELL (TYP.)
- 6 MINIMUM 10x PIPE DIAMETER UPSTREAM & MINIMUM 5x PIPE DIAMETER DOWNSTREAM OF STRAIGHT PIPE
- 7 PVC 45 DEGREE ELL (TYP.) BUSH DOWN TO FLOW METER SIZE AS NECESSARY
- 8 PVC MAIN LINE - LENGTH AS REQUIRED - SEE SPECIFICATIONS FOR TYPE AND DEPTH
- 9 GRAVEL (1 CU. FT.)
- 10 CONTINUOUS BRICK SUPPORTS
- 11 CARSON 1419 PLASTIC VALVE BOX EXTENSIONS AS REQUIRED
- 12 PVC MALE ADAPTER
- 13 PVC MALE ADAPTER - BUSH DOWN TO FLOW METER SIZE AS NECESSARY
- 14 TORO REMOTE CONTROL ELECTRIC GLOBE VALVE WITH FLOW CONTROL MODEL NO. 220-26-06

- NOTES:**
1. VALVE BOX SHALL BE SET 1" ABOVE GRADE.
 2. WHEN PLASTIC VALVES ARE USED, THE CARSON VALVE BOX SHALL HAVE AN EMS DEVICE IN THE COVER TO FACILITATE DETECTION BY A METAL DETECTOR. HOT STAMP TOP OF VALVE BOX WITH CORRESPONDING VALVE NUMBER AT CONTROLLER. ATTACH CHRISTY ID MARKER OR EQUAL TO VALVE IN BOX.
 3. ONLY ONE (1) VALVE PER BOX.
 4. PROVIDE DS-400 DRI-SPLICE WIRE CONNECTION AT ALL SPLICES.
 5. CONTROL WIRE SHALL BE SIZED A MINIMUM OF #14 U.L. APPROVED.

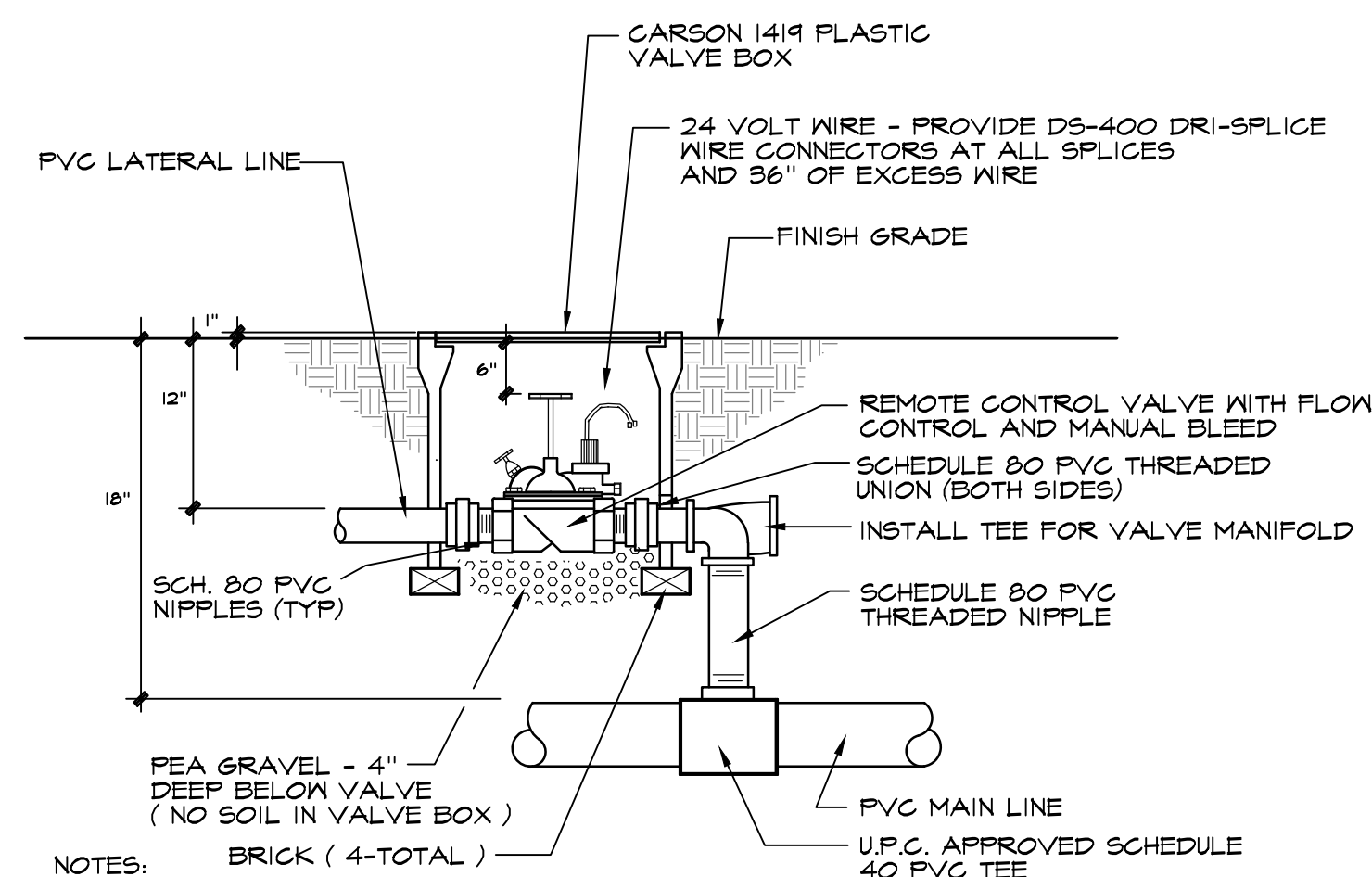
I FLOW SENSOR/MASTER VALVE INSTALLATION NOT TO SCALE 024 -



J BALL VALVE SCALE: NOT TO SCALE 06 - BallValve_16



K DRIP CONTROL ASSEMBLY SCALE: NTS 02 -



- NOTES:**
1. VALVE BOX SHALL SET 1" ABOVE GRADE.
 2. WHEN PLASTIC VALVES ARE USED, THE CARSON VALVE BOX SHALL HAVE AN EMS DEVICE IN THE COVER TO FACILITATE DETECTION BY A METAL DETECTOR. HOT STAMP TOP OF VALVE BOX WITH CORRESPONDING VALVE NUMBER AT CONTROLLER. ATTACH CHRISTY ID MARKER OR EQUAL TO VALVE IN BOX.
 3. ONLY ONE (1) REMOTE CONTROL VALVE PER BOX.
 4. PROVIDE DS-400 DRI-SPLICE WIRE CONNECTION AT ALL SPLICES.
 5. CONTROL WIRE SHALL BE SIZED A MINIMUM OF #14 U.L. APPROVED.

L ELECTRIC REMOTE CONTROL VALVE INSTALLATION SCALE: 1/2" = 1'-0" 024 -