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AB 1881 WATER BUDGET CALCULATIONS Maximum Applied Water Allowance (MAWA) The project's Maximum Applied Water Allowance shall be calculated using this equation: MAWA =  $(ETo) \times (0.62) \times [(0.7 \times LA) + (0.3 \times SLA)]$ Eto (Historical Evapotranspiration for Area) = ETAF(Evapotranspiration Adjustment Factor - LA) = 0.70 ETAF(Evapotranspiration Adjustment Factor - SLA) = 0.30 LA (Total Landscaped Area including SLA) = 4**71,032** ft2 SLA (Special Landscaped Area) = **0** ft2 0.62 (Conversion Factor) Eto ETAF LA or SLA (ft<sup>2</sup>) Conversion MAWA (Gallons Per Year) MAWA for LA = 56.50 x 0.70 x 471,032 x 11,550,17 MAWA for SLA =  $\begin{vmatrix} 56.50 \\ x \end{vmatrix} = \begin{vmatrix} 0.30 \\ x \end{vmatrix}$ 471,032 11,550,176 Maximum Applied Water Allowance (MAWA) = 15441.4 CCF/yr 11,550,176 Gal/yr

Estimated Total Water Use (ETWU) The project's Estimated Total Water Use shall be calculated using this equation: ETWU = (Eto) (0.62) [(PF x HA) / IE + SLA] ETWU = Estimated Total Water Use per year (gallons) Eto = Referance Evapotranspiration (inches) **56.50** (inches per year) PF = Plant Factor from WUCOLS (see section 491) HA = Hydrozone Area [high, medium and low water use areas] (square feet) SLA = Special Landscape Area (square feet) 0.62 = Conversion Factor IE = I migation Efficiency Eto Conversion Gallons Hydrozone Area # 1 (Shrub In-Line Drip)  $\begin{vmatrix} 56.50 & x & 0.62 & x & 0.40 & x & 3,346 & \ddots & 0.90 \end{vmatrix}$ 56.50 x 0.62 x 0.40 x 86,994 ÷ 0.71 Hydrozone Area # 2 (Shrub Spray) 56.50 x 0.62 x 0.40 x 380,692 ÷ 0.75 Hydrozone Area # 3 (Shrub Rotor) 7,112,342 471,032 8,881,280 Estimated Total Water Use (ETWU) = 8,881,280 Gal / yr 11873.4 CCF / yr

#### LANDSCAPE NOTES

- LANDSCAPING SHALL CONFORM TO ORDINANCE NO. 859.2 AND COUNTY OF RIVERSIDE GUIDE TO CALIFORNIA FRIENDLY LANDSCAPING.
- NO INVASIVE PLANTS WILL BE PROPOSED ON THE PROJECT, INCLUDING ANY PLANTS LISTED AS 'PROHIBITED' IN RIVERSIDE COUNTY CALIFORNIA FRIENDLY PLANT LIST.
- ALL SITE LANDSCAPE AREAS WILL BE MAINTAINED BY THE PROPERTY OWNER.
- LINEAR DEEP ROOT BARRIERS SHALL BE INSTALLED FOR ANY TREES WITHIN 6' FROM ANY HARDSCAPE.
- ALL PLANTER AREAS SHALL RECEIVE A 3" LAYER OF MULCH, EXCEPT FOR AREAS PLANTED WITH GROUND COVER FROM FLATS WHICH SHALL RECEIVE A 1-1/2" LAYER OF MULCH.
- TREES SHALL BE STAKED WITH 2-3 STAKES AND 6 TREE TIES PER COUNTY STANDARD DETAILS. USE TRIPLE STAKING WITH 3" DIAMETER STAKES IN HIGH WIND AREAS.
- TREES SHALL HAVE BREATHER TUBES PER COUNTY STANDARD DETAILS.
- PLANTER ISLANDS ADJACENT TO PARKING SPACES SHALL HAVE 12" WIDE CONCRETE WALKWAY STRIP INSTALLED ADJACENT TO AND INTEGRAL WITH OR DOWELED INTO THE 6" WIDE CURB.

#### IRRIGATION DESIGN STATEMENT

IRRIGATION FOR THIS PROJECT SHALL CONFORM TO THE REQUIREMENTS OF THE COUNTY OF RIVERSIDE ORDINANCE NO. 859.2 AND THE STATE WATER CONSERVATION ORDINANCE AB 1881, INCLUDING BUT NOT LIMITED TO THE FOLLOWING:

- IRRIGATION SYSTEMS SHALL BE DESIGNED, MAINTAINED, AND MANAGED TO MEET OR EXCEED AN AVERAGE IRRIGATION EFFICIENCY OF 0.71.
- ALL IRRIGATION SYSTEMS SHALL BE DESIGNED TO PREVENT RUNOFF, OVERSPRAY, LOW HEAD DRAINAGE AND OTHER SIMILAR CONDITIONS WHERE WATER FLOWS OFF-SITE ONTO ADJACENT PROPERTY OR NON-IRRIGATED AREAS.
- IRRIGATION SYSTEM WILL INCLUDE A SMART IRRIGATION CONTROLLER WHICH AUTOMATICALLY ADJUSTS THE FREQUENCY AND/OR DURATION OF IRRIGATION EVENTS IN RESPONSE TO CHANGING WEATHER CONDITIONS.
- OF WATER NEEDED TO SUSTAIN THEM. IRRIGATION SYSTEM DESIGNED TO WATER DIFFERENT HYDROZONES OF THE LANDSCAPE ON SEPARATE VALVES.

PLANTING DESIGN SHALL UTILIZE HYDROZONES, WITH PLANTS GROUPED BASED UPON AMOUNT

- OVERHEAD IRRIGATION SHALL BE LIMITED TO RUN BETWEEN THE HOURS OF 8 PM AND 9 AM, AND SHALL NOT BE PERMITTED WITHIN 2' OF ANY NON-PERMEABLE SURFACE.
- MULCHED PLANTER AREAS SHALL BE WATERED WITH LOW VOLUME IRRIGATION.
- IRRIGATION DESIGN SHALL BE SENSITIVE TO SLOPE FACTORS, AIR TEMPERATURE AND EXPOSURE.
- LANDSCAPE WATER USE CERTIFICATION WITH SUPPORTING DATA IN COMPLIANCE WITH STATE OF CALIFORNIA WATER EFFICIENCY ORDINANCE FOR APPROVAL SHALL BE SUBMITTED WITH LANDSCAPE CONSTRUCTION DOCUMENT SUBMITTAL TO THE COUNTY.

### IRRIGATION STATEMENT FOR COMPLIANCE WITH ORDINANCE 859.2

THE FOLLOWING ITEMS WILL BE INCORPORATED INTO THE FINAL IRRIGATION DESIGN PLANS AND SPECIFICATIONS:

- SMART CONTROLLER WITH AN ET GAGE WITH ACCESS TO REAL-TIME ET (MINIMUM CONTROLLER RATING SHALL BE LIGHT COMMERCIAL).
- MASTER VALVE AND FLOW SENSOR (EXCEPT FOR PRIVATE RESIDENTIAL LOTS).
- RAIN SENSING DEVICE.
- ANTI-DRAIN CHECK VALVES.
- PRESSURE REGULATOR (IF NEEDED).
- HYDROZONES WILL BE PROPERLY DESIGNATED.
- NO OVERHEAD IRRIGATION WITHIN 24" OF NON-PERMEABLE SURFACES. (NO RESTRICTIONS TO METHOD IF ADJACENT TO PERMEABLE SURFACE WITH NO RUNOFF/OVERSPRAY).
- SUBSURFACE OR LOW-VOLUME IRRIGATION WILL BE USED FOR IRREGULARLY SHAPED AREAS, OR AREAS LESS THAN 8 FEET IN WIDTH.

# OFF STREET PARKING REQUIREMENTS (ORDINANCE 348, SECTION 18.12)

- PLANTING AREAS PROTECTED BY CURB MINIMUM 6" HIGH.
- PLANT MATERIALS PROTECTED FROM VEHICULAR ENCROACHMENT OR OVERHANG.
- PLANTER ISLANDS ADJACENT TO PARKING SPACES SHALL HAVE 12" WIDE CONCRETE WALKWAY STRIP INSTALLED ADJACENT TO CURB, AND INTEGRAL WITH OR DOWELED INTO THE CURB.

PA / PM: TOM MYERS

DRAWN BY: JOB NO.: IRV12-0157-00

**ENLARGEMENT #2** DETENTION BASIN WEST OF BUILDING #2 SCALE: 1" = 20'-0"

## PROPOSED PLANT PALETTE (continued)

SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	SPACING	QTY.	COMMENTS	WATER USE
SHRUBS A	ND GROUNDCOVERS						
	DIETES BICOLOR	FORTNIGHT LILY	5 GAL.	30" O.C.	2,272	FLOWERING ACCENT	MOD
$\otimes$	DODONEA VISCOSA 'PURPUREA'	PURPLE HOP BUSH	5 GAL.	6' O.C.	393	LARGE SCREENING SHRUB	MOD
▼	FICUS PUMILA	CREEPING FIG	5 GAL. STAKED	PER PLAN	109	SCREENING VINE	MOD
	LANTANA 'GOLD RUSH'	YELLOW TRAILING LANTANA	5 GAL.	3' O.C.	577	FLOWERING GROUNDCOVER	LOW
$\odot$	LEUCOPHYLLUM F. 'GREEN CLOUD'	TEXAS RANGER	5 GAL.	42" O.C.	521	MIDGROUND	LOW
M	MISCANTHUS TRANSMORRISONENSIS	EVERGREEN MISCANTHUS	5 GAL.	42" O.C.	392	ORNAMENTAL GRASS	MOD
$\odot$	MAHONIA 'GOLDEN ABUNDANCE'	GOLDEN ABUNDANCE OREGON GRAPE	5 GAL.	4' O.C.	121	LARGE FLOWERING SHRUB	MOD
9	MUHLENBERGIA RIGENS	DEER GRASS	5 GAL.	3' O.C.	1,089	ORNAMENTAL GRASS	LOW
	MYOPORUM PARVIFOLIUM 'PINK'	PINK MYOPORUM	FLATS	3' O.C.	PER PLAN	LOW EVERGREEN GROUNDCOVER	LOW
R	RHAMNUS C. 'MOUND SAN BRUNO'	COFFEEBERRY	5 GAL.	4' O.C.	720	BACKGROUND	VERY LOW
	ROSMARINUS O. 'PROSTRATUS'	PROSTRATE ROSEMARY	1 GAL.	2' O.C.	PER PLAN	FLOWERING GROUNDCOVER	LOW
7	SALVIA GREGGII	AUTUMN SAGE	5 GAL.	30" O.C.	507	MIDGROUND	LOW
$\bigcirc$	SENNA ARTEMISIOIDES	FEATHERY CASSIA	5 GAL.	42" O.C.	293	BACKGROUND	LOW
$\circ$	WESTRINGIA F. 'WYNYABBIE GEM'	COAST ROSEMARY	5 GAL.	42" O.C.	932	SCREENING HEDGE	LOW
	DETENTION BASIN HYDROSEED MIX AT BOTTOM OF BASIN:						
	4 LBS / AC ANEMOPSIS CALIFORNICA / YERBA MANSA 5 LBS / AC ARTEMISIA DOUGLASIANA / MUGWORT 5 LBS / AC BROWLIS CARINATUS / CALIFORNIA BROWLE GRASS						

BROMUS CARINATUS / CALIFORNIA BROME GRASS HORDEUM BRACHYANTHERUM / MEADOW BARLEY 3 LBS / AC JUNCUS ACUTUS / SPINY RUSH RUMEX SALICIFOLIUS / WILLOW DOCK TYPHA LATIFOLIA / COMMON CATTAIL PLUCHEA ODORATA / MARSH FLEABANE

DETENTION BASIN HYDROSEED MIX AT SLOPE: ARTEMISIA CALIFORNICA / CALIFORNIA SAGEBRUSH 5 LBS / AC .5 LBS / AC ERIOGONUM FASCICULATUM / CALIFORNIA BUCKWHEAT 3 LBS / AC ESCHSCHOLZIA CALIFORNICA / CALIFORNIA POPPY LASTHENIA CALIFORNICA / DWARF GOLDFIELDS LOTUS SCOPARIUS / DEERWEED 2 LBS / AC LUPINUS HIRSUTISSIMUS / STINGING LUPINE 2 LBS / AC NASSELLA PULCHRA / PURPLE NEEDLEGRASS 2 LBS / AC PHACELIA CILIATA / GREAT VALLEY PHACELIA SALVIA APIANA / WHITE SAGE 2 LBS / AC 2 LBS / AC SALVIA MELLIFERA / BLACK SAGE

NOTE: WATER USE BASED ON WUCOLS III SPECIES EVALUATION LIST 1999 FOR REGION 4.

SLOPE AREA PLANTING TO MEET BUILDING & SAFETY EROSION CONTROL REQUIREMENTS, TYPICAL

RETAINING WALL RETAINING WALL RETAINING WALL HT=1'

**ENLARGEMENT #3** TYPICAL NON-DETENTION-BASIN SLOPE AREA SCALE: 1" = 20'-0"

**BROWN STREET** 11 , **ENLARGEMENT #1** CORNER OF ALESSANDRO BLVD. & BROWN STREET PROPOSED PLANT PALETTE SIZE QTY. COMMENTS WATER USE

CRAPE MYRTLE

SOUTHERN LIVE

COTTONWOOD

LONDON PLANE

DWARF YELLOW

KANGAROO PAW

ROCKROSE

OLEA EUROPEA

PINUS ELDARICA

QUERCUS VIRGINIANA

POPULUS FREMONTII

PLATANUS ACERIFOLIA

RHUS LANCEA

WASHINGTONIA

ACACIA REDOLENS

CALLISTEMON 'LITTLE

CEANOTHUS T.

CISTUS LADANIFER

'SKYLARK'

'DESERT CARPET'

ROBUSTA

SYMBOL BOTANICAL NAME

SHRUBS AND GROUNDCOVERS

SAMBUCUS MEXICANA BLUE ELDERBERRY

17 STREET TREE ON CACTUS STREET

24 BUILDING ENTRY ACCENT

97 PERIMETER TREE -60 EVERGREEN

CANOPY TREE

MOD

WATER USE

97 DECIDUOUS

60 PARKING LOT

125 PARKING LOT SHADE TREE

24" BOX 58 STREET TREE ON

SHADE TREE

45 DETENTION AREA

**BROWN STREET** 

STREET TREE

PLAN GROUNDCOVER

101 STRAPPY ACCENT

GROUNDCOVER

52 SUCCULENT

484 FLOWERING

FRUITLESS OLIVE 36" BOX 54 ENTRY ACCENT

MEXICAN FAN PALM 20' BTH 17 ALESSANDRO

1 GAL.

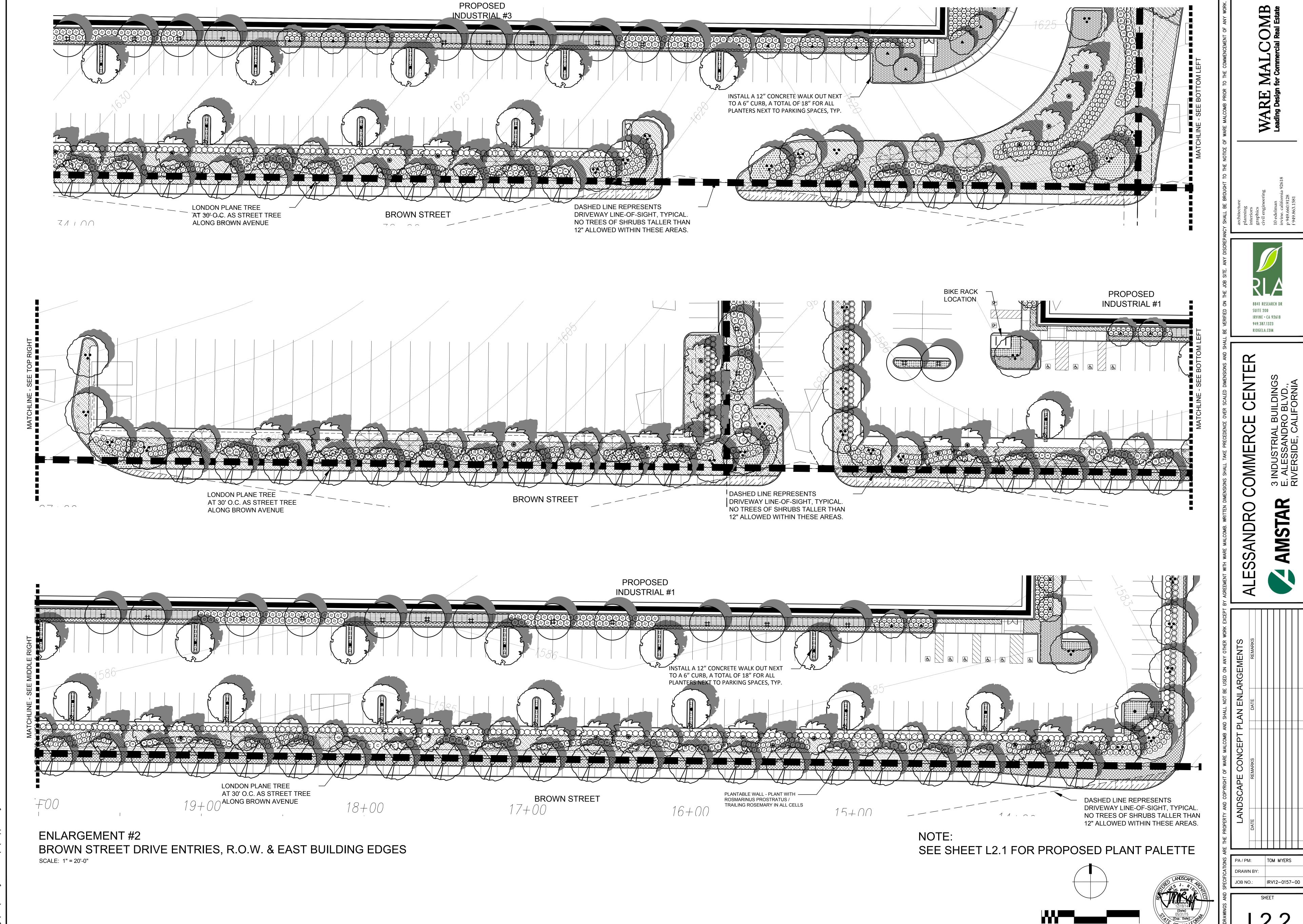
CALIFORNIA LILAC 5 GAL. 5' O.C.

FLOWERING TREE

- DETENTION AREA

SCALE: 1" = 20'-0"

CRIMSON-SPOT 5 GAL. 4' O.C. 186 FLOWERING SHRUB



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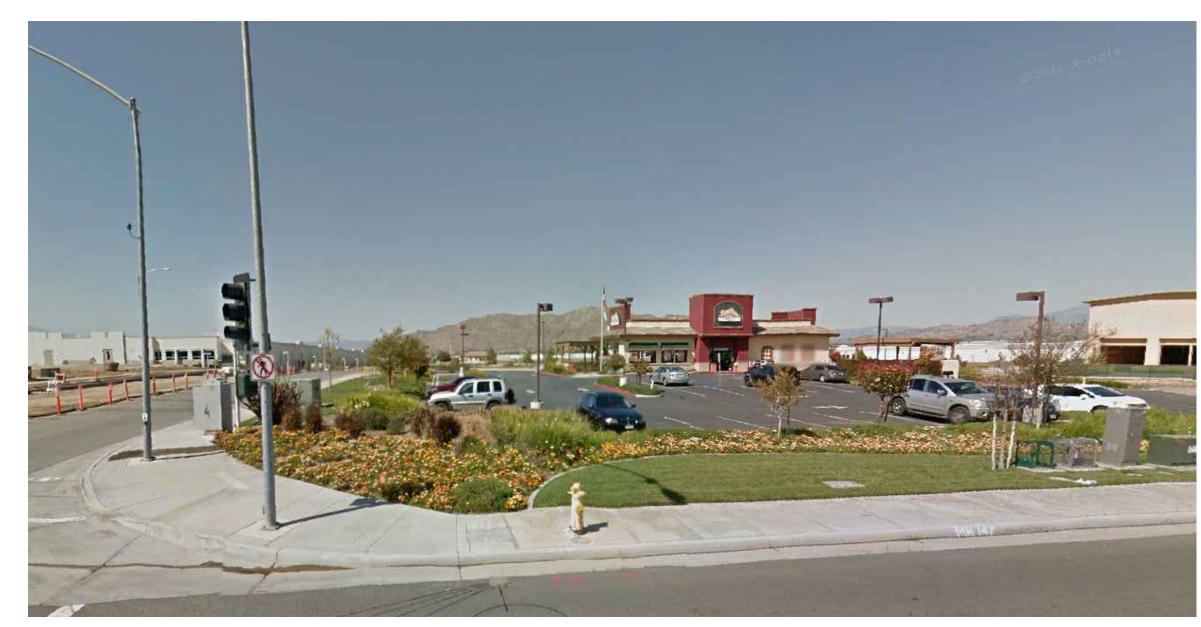
OPEN SPACE WEST OF SITE (ENVIRONMENTAL CORRIDOR)

Consists primarily of open land with boulders and small groupings of native shrubs including Artemisia, Baccharis, Eriogonum and Sambucus.



OPEN SPACE NORTH OF ALESSANDRO BOULEVARD

Sycamore Canyon Wilderness Park. The park edge within 200' of the site consists primarily of open land with boulders and small groupings of native trees and shrubs including Artemisia, Baccharis, Encilea, Eriogonum, Quercus and Sambucus.



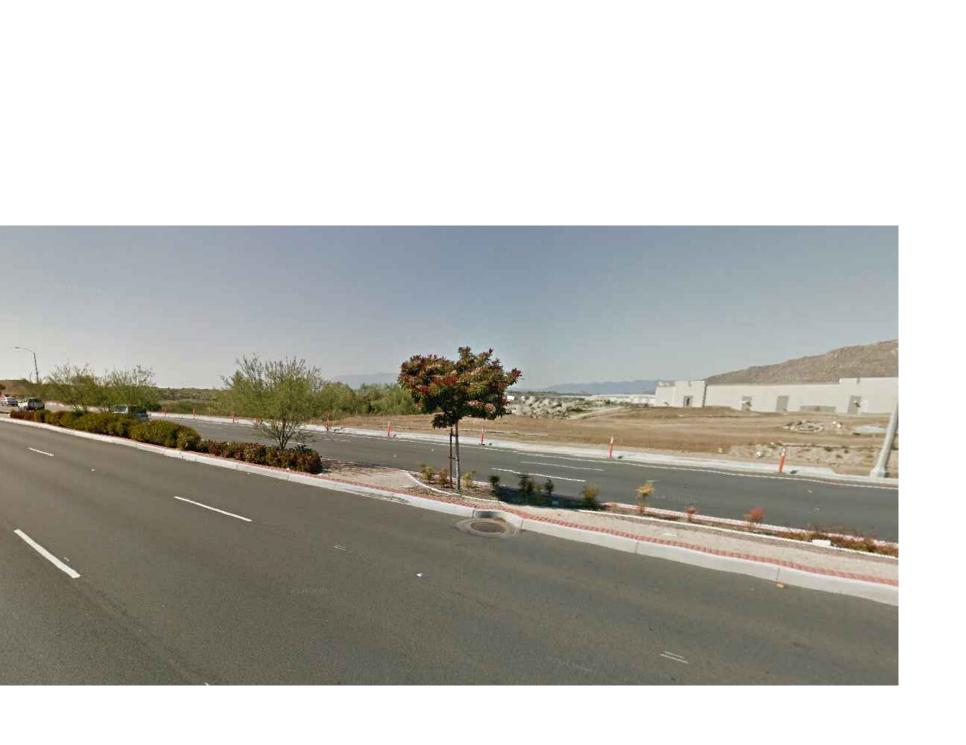
RETAIL DEVELOPMENT NORTHEAST OF SITE (AT ALESSANDRO BLVD. AND SAN GORGONIO DRIVE)

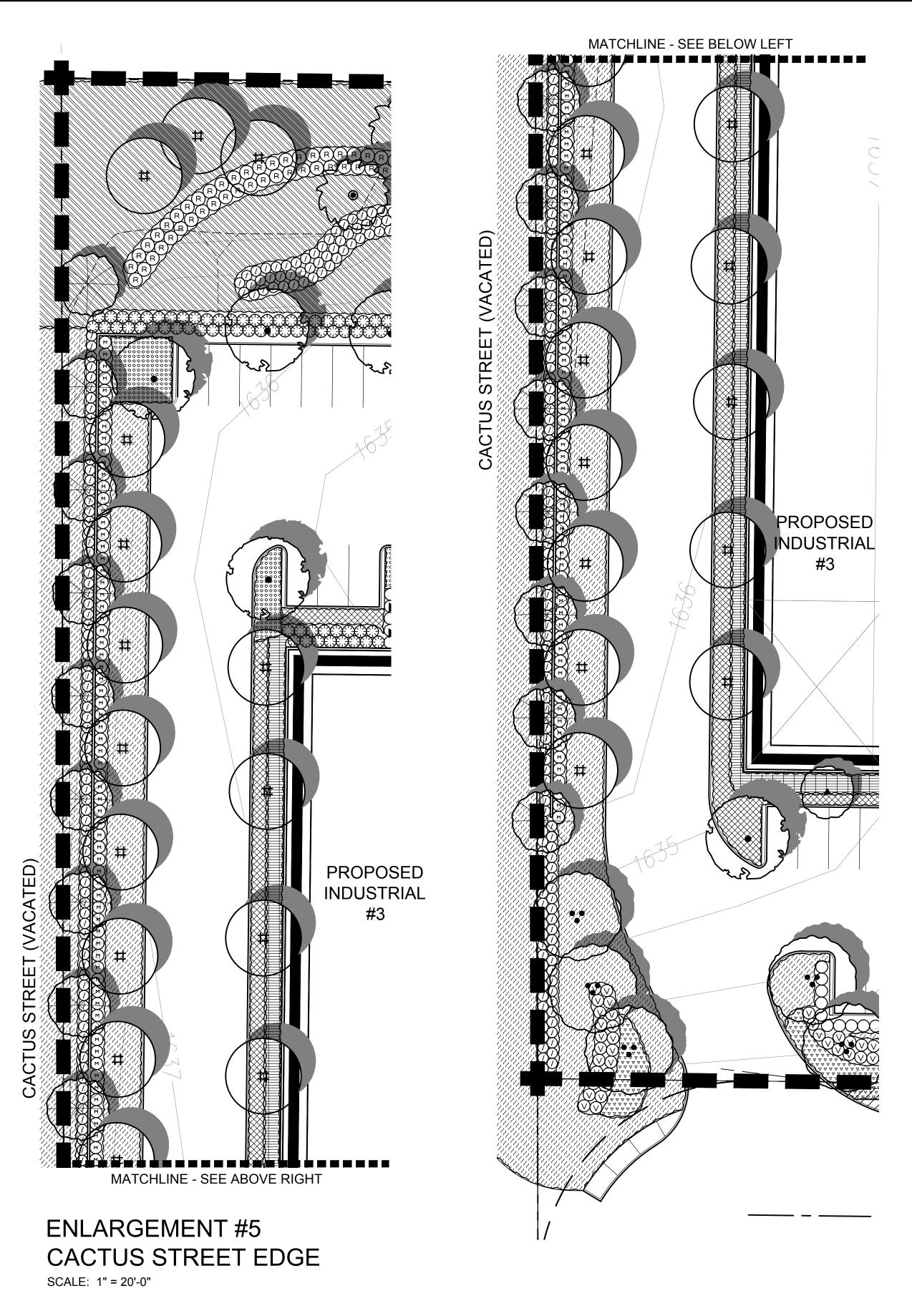
Ornamental plantings include Photinia and Lagestroemia trees, Dietes, Gazania, Pennisetum, Phormium, Rhaphiolepis, Rosemary and Turf.

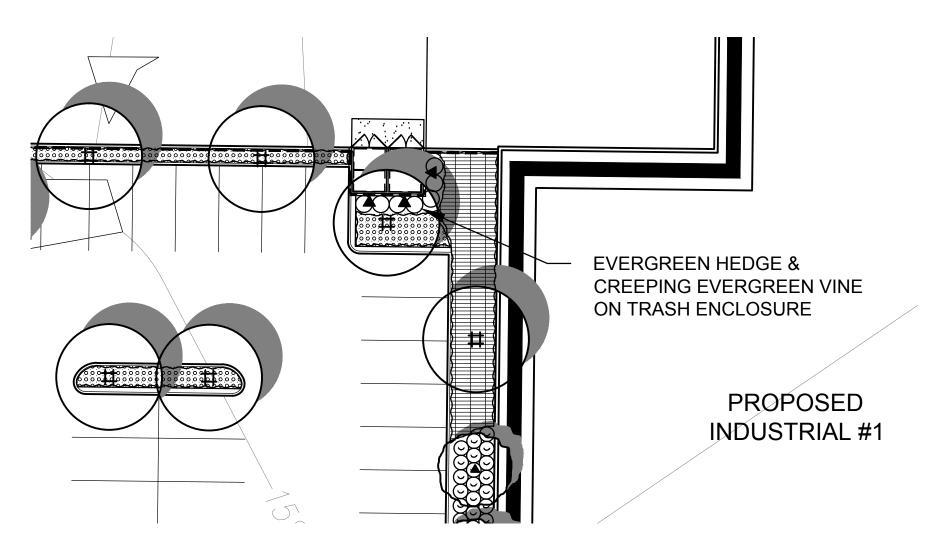


MEDIAN PLANTING ON ALESSANDRO BOULEVARD

Mixed ornamental plantings with trees including Acacia salicina, Cercis, Eriobotrya, Lagestroemia and Prunus, and shrubs including Callistemon, Euryops and Nandina.

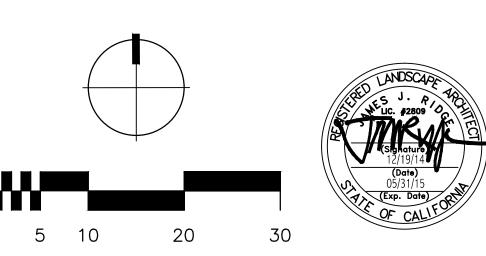






ENLARGEMENT #6
LANDSCAPE SCREENING AT TRASH ENCLOSURE
SCALE: 1" = 20'-0"

NOTE: SEE SHEET L2.1 FOR PROPOSED PLANT PALETTE



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3 INDUSTRIAL BUILDIN

E. ALESSANDRO BLVD
RIVERSIDE CALIFORN

AMSTAR

ONCEPT PLAN ENLARGEMENTS

F LANDSCAPE DOCUMENTATION

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REMARKS

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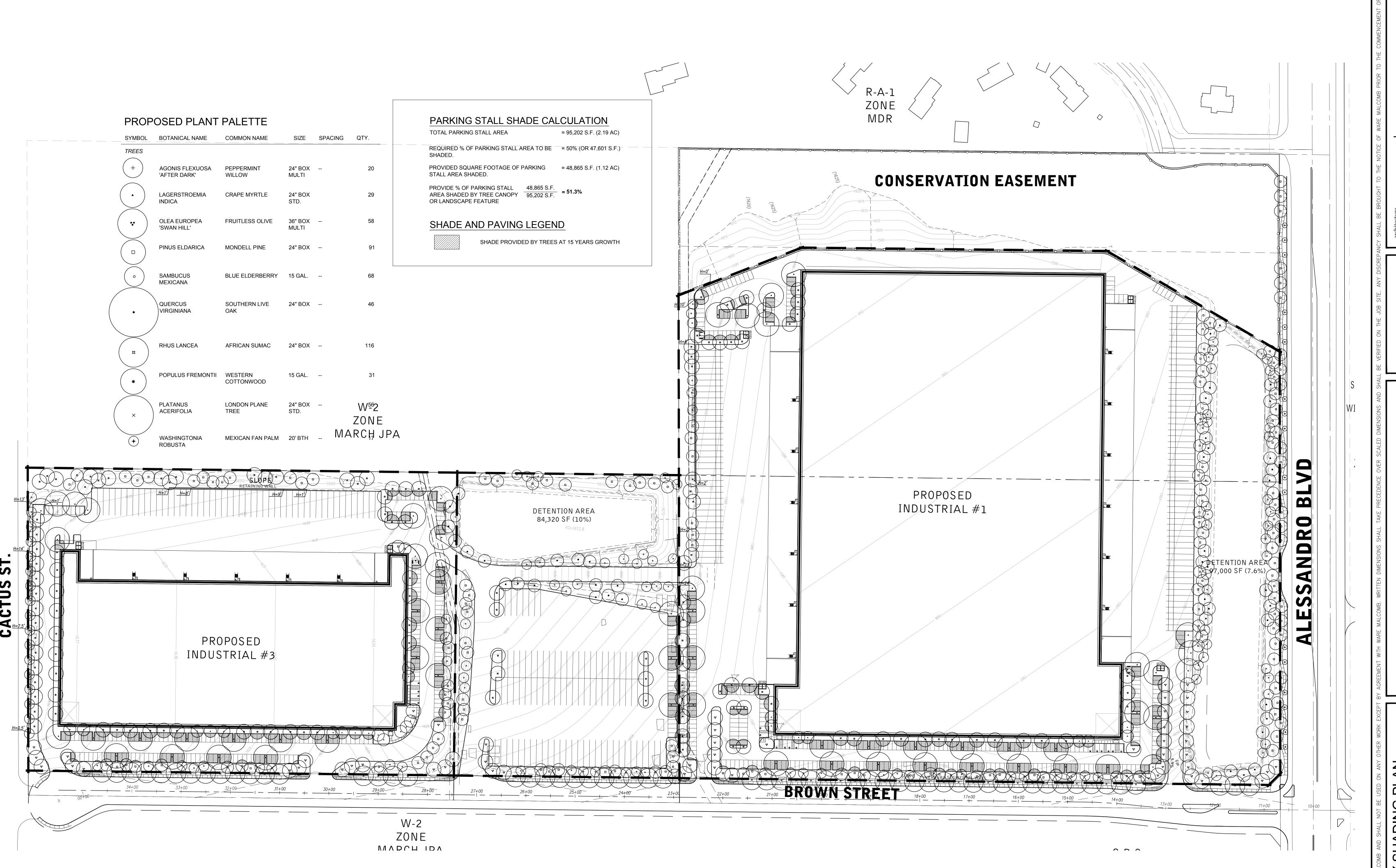
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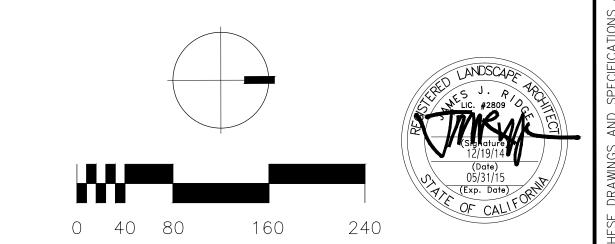
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L2.3





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MMERCE CENTE INDUSTRIAL BUILDINGS ALESSANDRO BLVD.,

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REMALCOMB AND SHALL NOT BE USED ON ANY OTHER WORK

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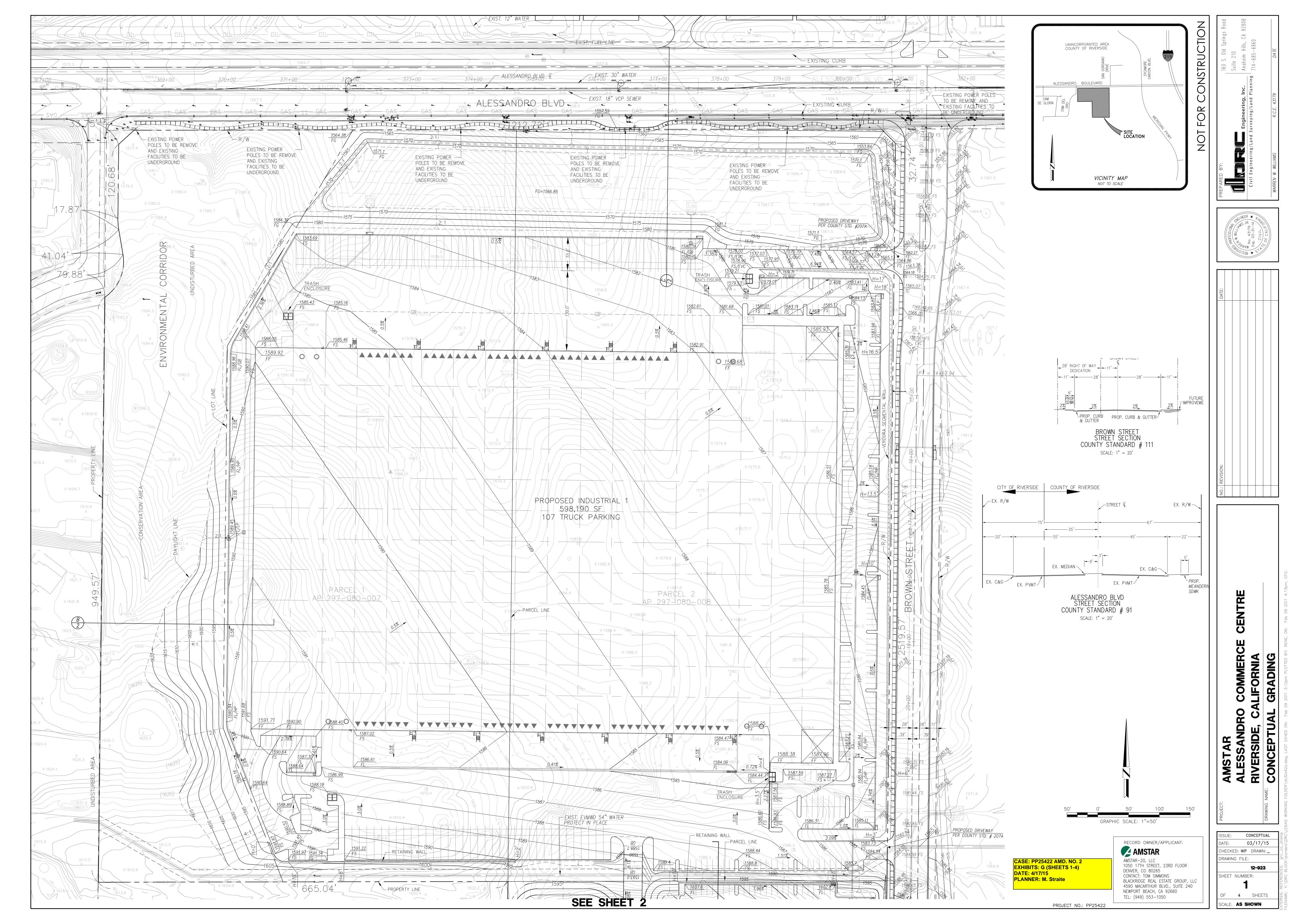
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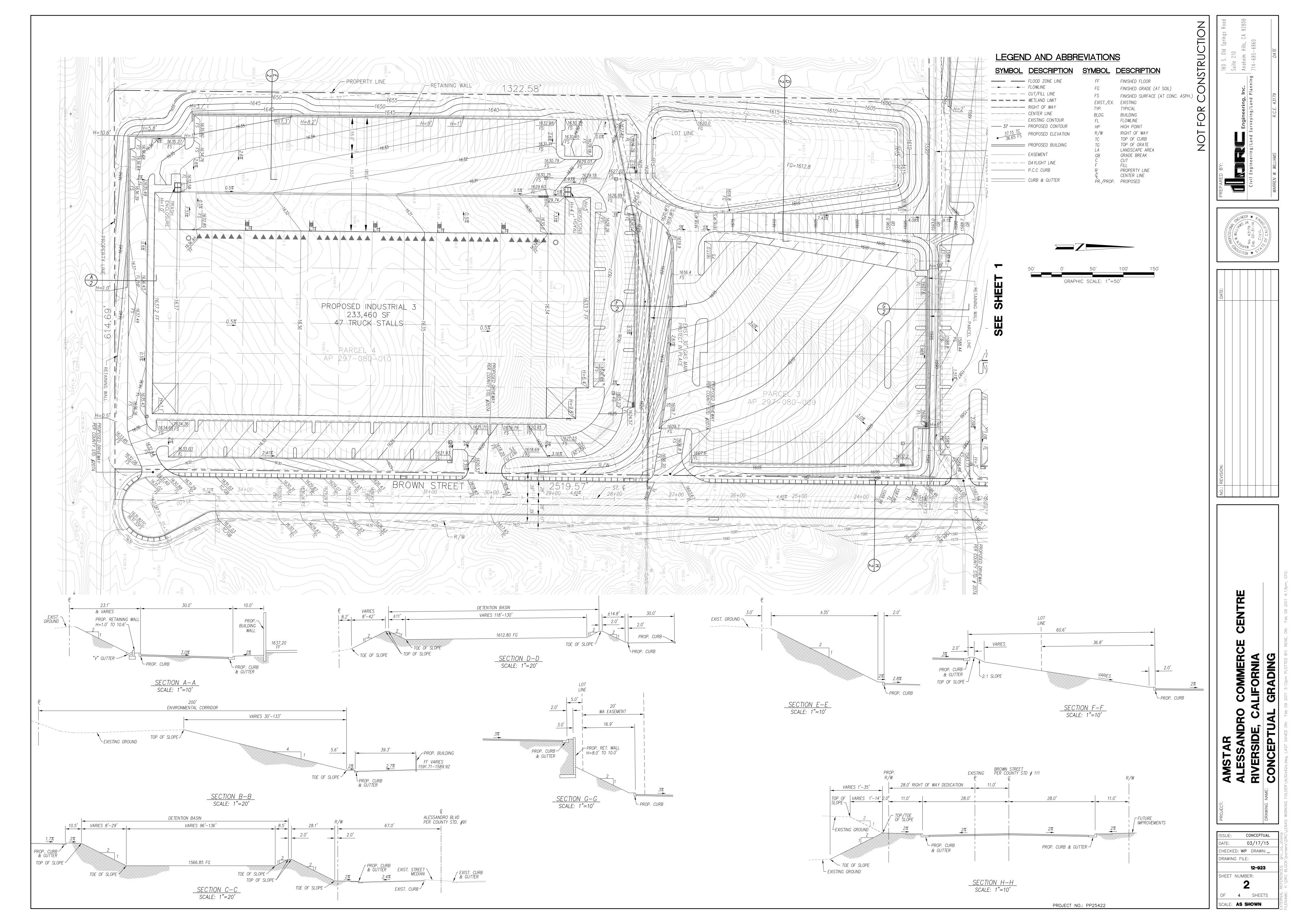
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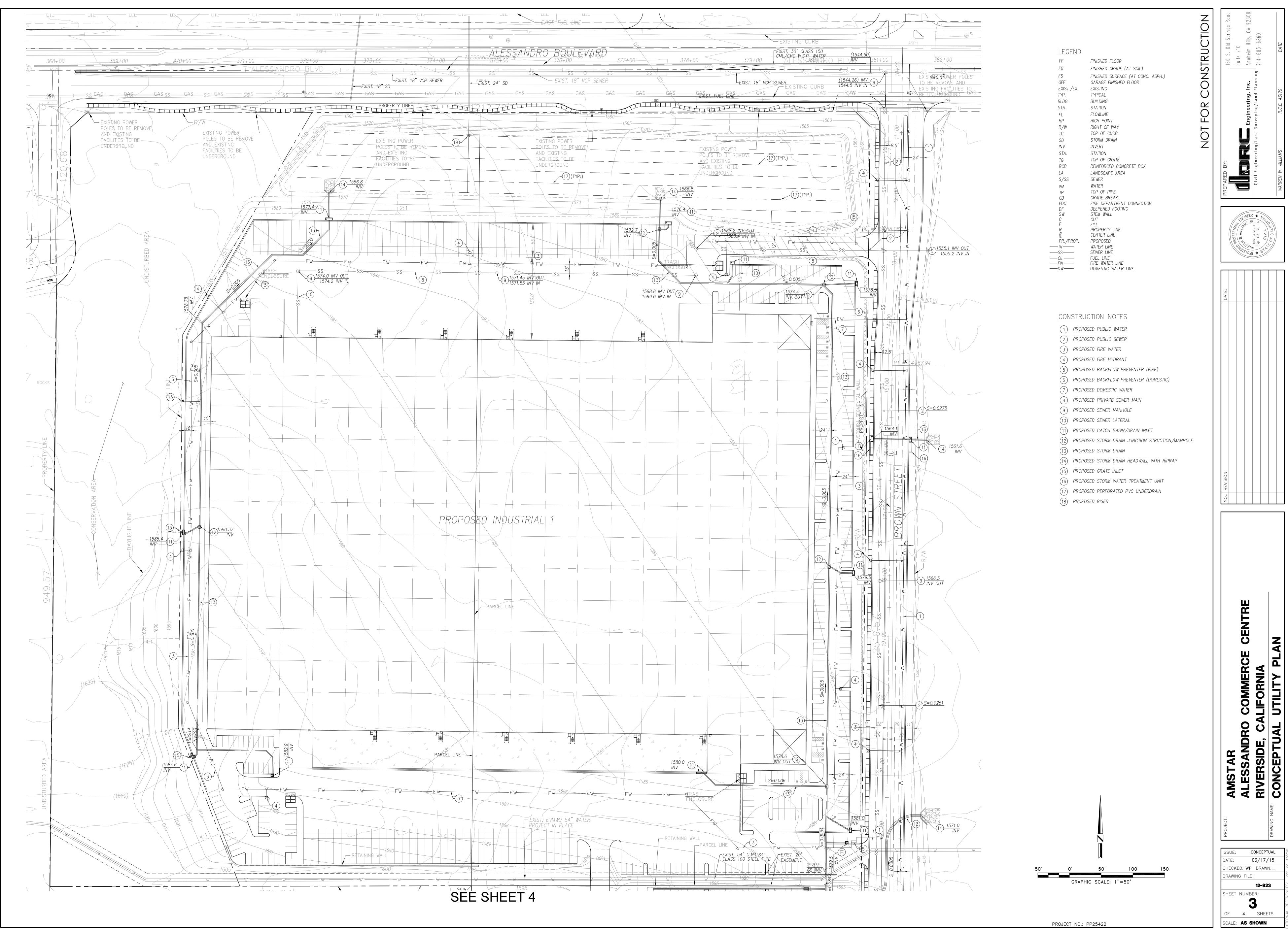
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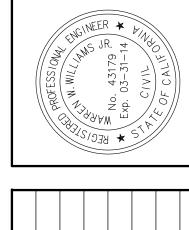
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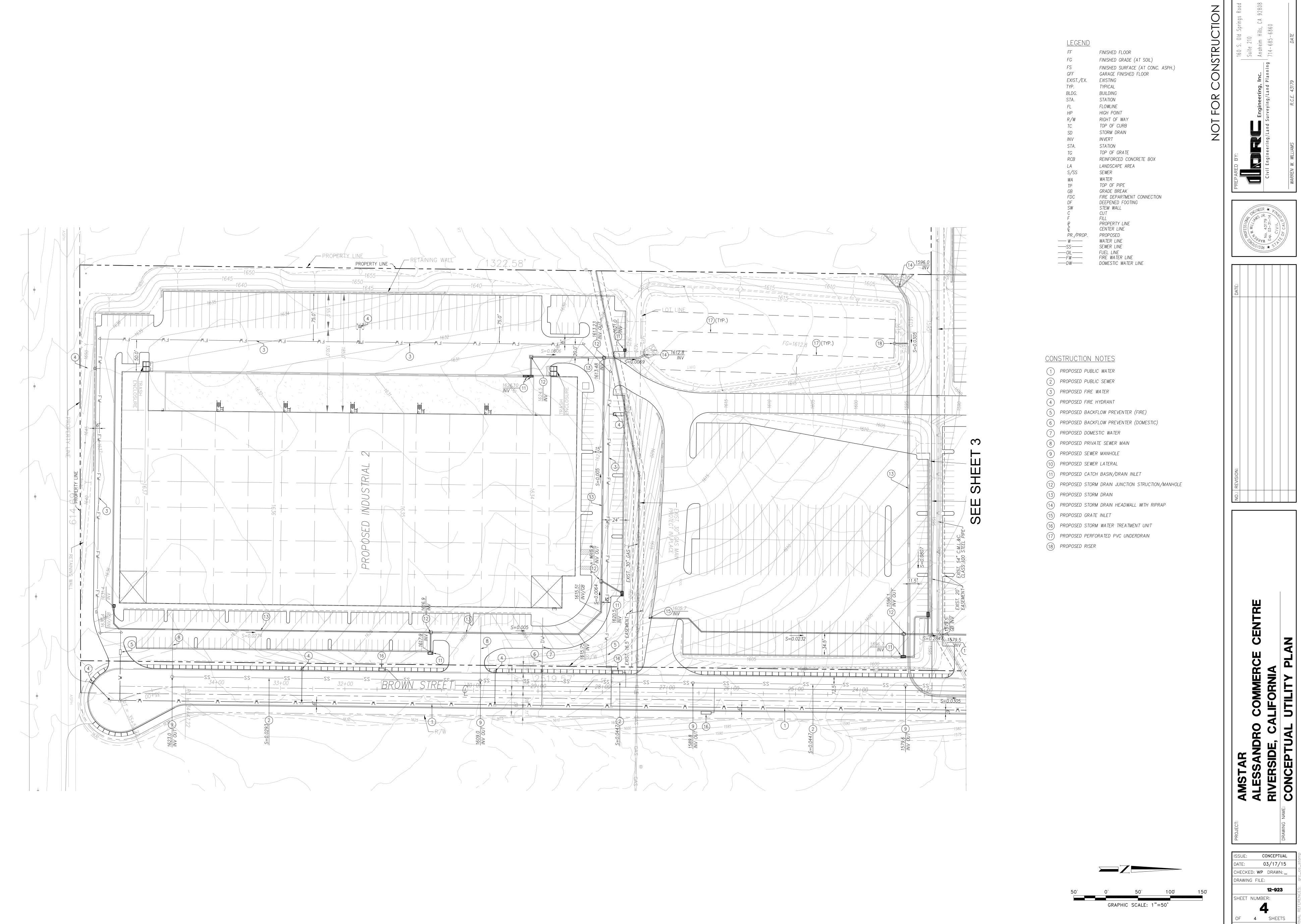






CONCEPTUAL 03/17/15

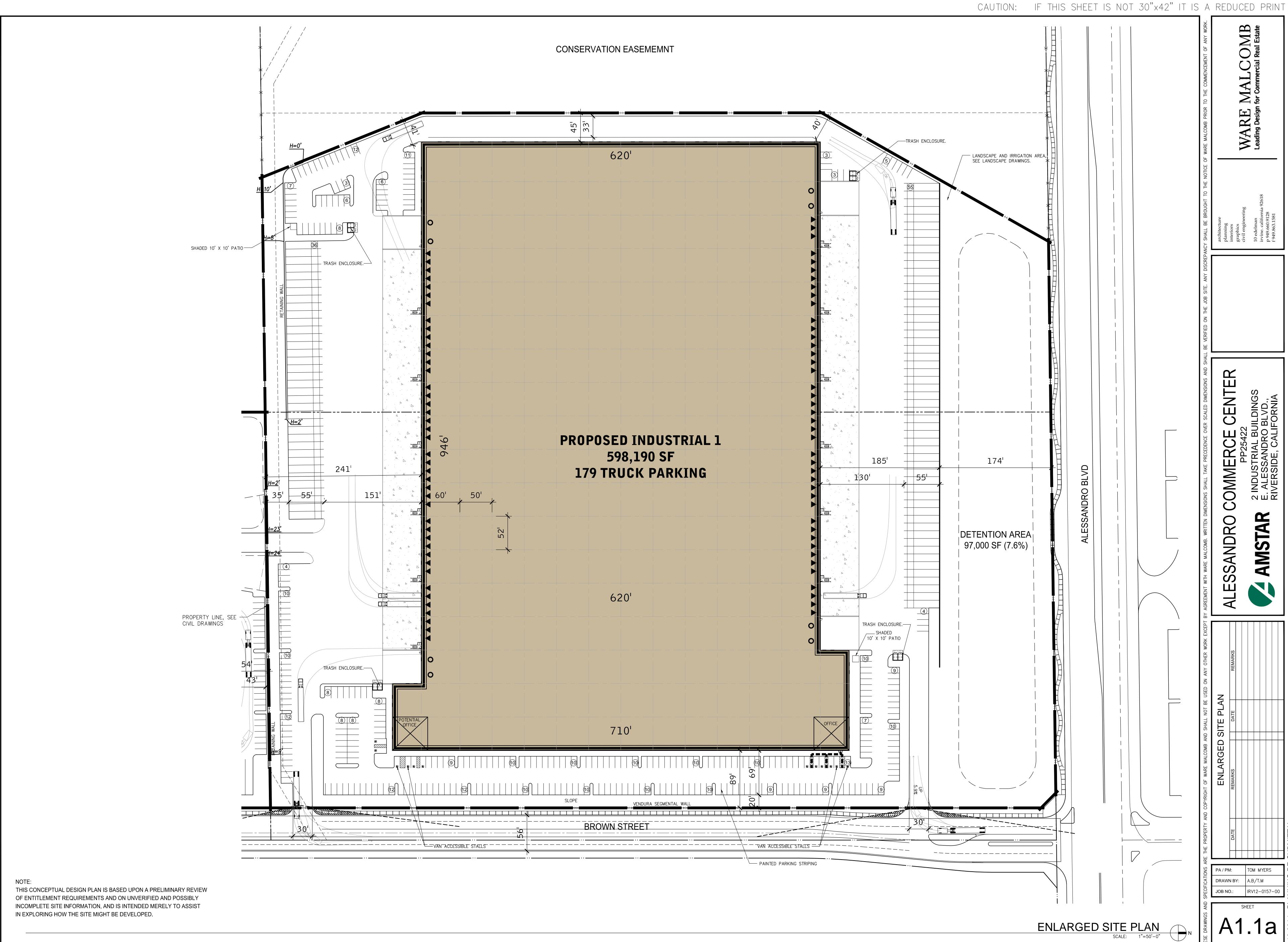
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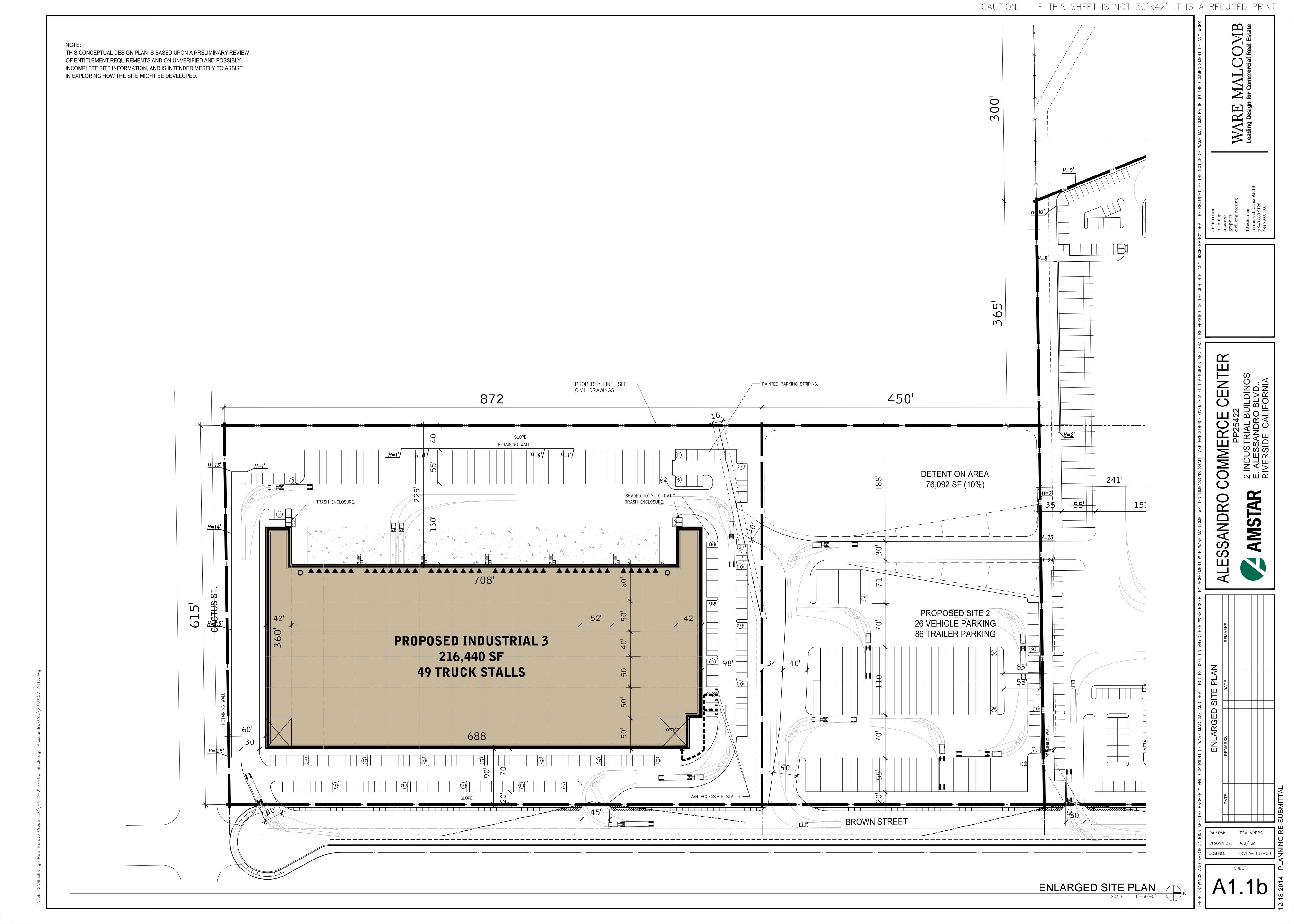


ISSUE: CONCEPTUAL 03/17/15 CHECKED: WP DRAWN: \_ DRAWING FILE: SHEET NUMBER:

OF 4 SHEETS SCALE: **AS SHOWN** 

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NO SCALE

