Attachment B

EXPRESS CAR WASH BUILDING DEVELOPMENT

STAR EXPRESS CAR WASH

1911 E. PACIFIC COAST HWY. LONG BEACH, CA 90806 APN: 7216-032-021

SM WASH LLC,

TEL: 949 - 468 - 6069

3055 WILSHIRE BLVD STE 405 LOS ANGELES, CA 90010 CONTACT - JOHN LEE

ARCHITECT

GROUPARCH DEVELOPMENT. INC. 3850 WILSHIRE BLVD., #208 LOS ANGELES, CA 90010 CONTACT - YONG K. PARK TEL: 213 - 383 - 2088

3470 WILSHIRE BLVD. SUITE 545

LOS ANGELES, CA 90010 CONTACT - ERIC KIM TEL: 213 - 258 - 8451

SOILS ENGINEER :: DON SOILS ENGINEERING

LOS ANGELES, CA 90016 **CONTACT - DON YIM** TEL: 323 - 936 - 6763

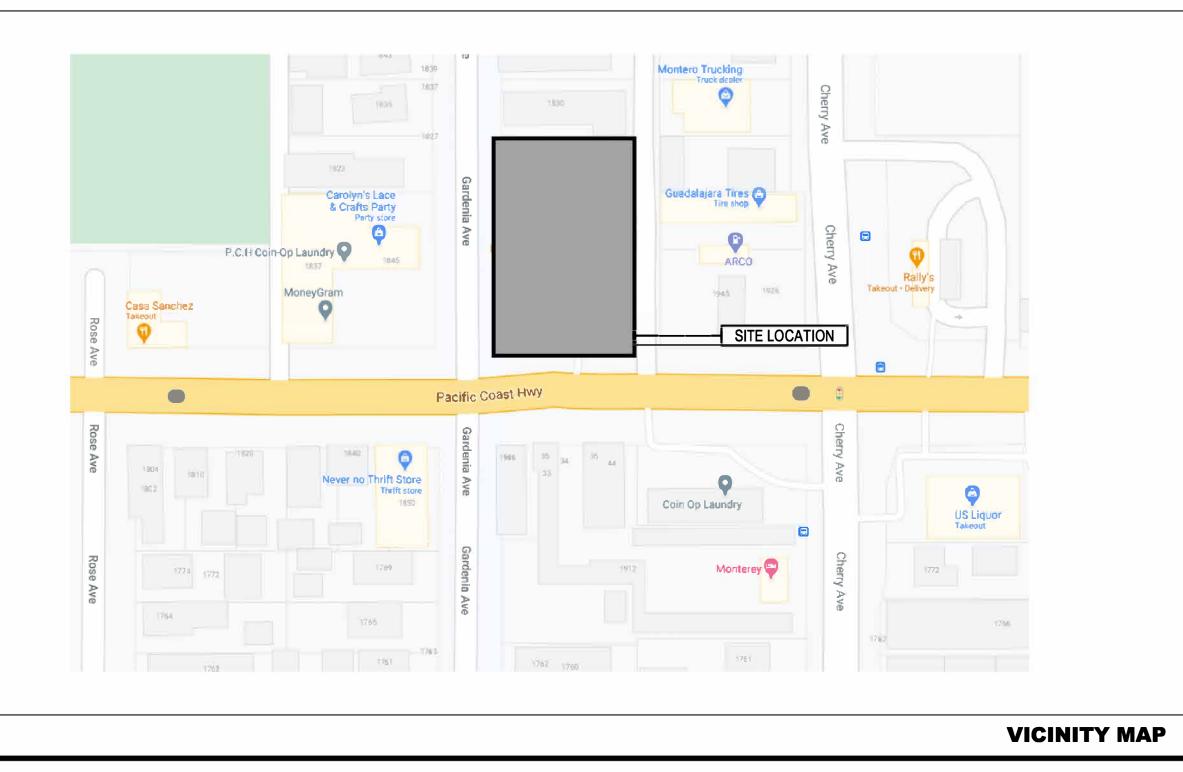
LANDSCAPE DSK LANDSCAPE ARCHITECTS 3000 WEST 6TH STREET SUITE 300

LOS ANGELES, CA 90010 CONTACT - DAVID KIM TEL: 213 - 382 - 3113

CIVIL ENGINEER : POINT ENGINEERING, INC.

2225 S. LA BREA AVE.

CONTACT INFORMATION



PROJECT ADDRESS	41	1911 E. PACIFIC COAST HWY. LONG BEACH, CA 90806
LEGAL DESCRIPTION	1	LOT CODE: 9-12 TRACT: 1319
APN	(#) (#)	7216-032-021
ZONING	1	EXISTING - CHW, R-3-S PROPOSED - CCN
LOT SIZE	(2)	24,083 SQ.FT.
PROPOSED BLDG. USE	(1)	EXPRESS CAR WASH
PROPOSED BLDG. AREA	E -	WASH BLDG 3,278 SQ.FT. TRASH, VACUUM, TOILET BLDG 355 SQ.FT. MONITORING BLDG 127 SQ.FT.
		TOTAL - 3,760 SQ.FT.
EXISTING LOT COVERAGE & FLOOR AREA RATIO	3	3,296 SQ.FT./ 24,083 SQ.FT. (GROSS LOT) - 0.137 : 1.0
PROPOSED LOT COVERAGE & FLOOR AREA RATIO	1	3,760 SQ.FT./ 24,083 SQ.FT. (GROSS LOT) - 0.156 : 1.0 3,760 SQ.FT./ 22,460 SQ.FT. (NET LOT EXCLUDING DEDICATIONS) - 0.167 : 1.0
PROPOSED NO. OF STORY	35	1-STORY
PROPOSED BLDG. HT.	8	WASH BLDG 28'-0" TRASH, VACUUM, TOILET BLDG 16'-6" MONITORING BLDG 13'-3"
OCCUPANCY GROUP:	31)	B, S1
REQUIRED PARKING		FOR AUTOMATED CAR WASH - 2 SPACES / 18'-0" LENGTH OF WASH BAY BELT DRIVEN WASH TUNNEL LENGTH: 100'-0" 100 / 18 = 5.5 5.5X2 = 11-SPACES REQUIRED.
PROVIDED PARKING	W W	STANDARD PARKING (W/ VACUUM) : 17-SPACES ACCESSIBLE PARKING (W/ VACUUM) : 1-SPACE TOTAL 18 - PARKING SPACES (W/ VACUUM) PROVIDED
PROJECT DESCRIPTION	8	CONSTRUCTION OF AN AUTOMATED CARWASH ON A 24,083 SQUARE FOOT LOT. THE SITE WILL BE DEVELOPED WITH A 3,278 SF ONE-STORY CARWASH TUNNEL, AND TWO ONE-STORY ACCESSORY STRUCTURES, A 355 SF BUILDING FOR RESTROOMS AND STORAGE, AND A 127 SF MONITORING BOOTH. THE REMAINDER OF THE SITE WILL BE DEVELOPED WITH 18 PARKING SPACES EQUIPPED WITH SELF-SERVICE VACUUMS AND APPROX. 2,626 SF OF LANDSCAPE AREA.

PROJECT INFORMATION

EQ.	SHT.	TITLE
1	A-1.0	PROJECT INFORMATION
2		SITE SURVEY
3		EXISTING SITE PLAN
4	A-1.1	SITE PLAN
5	A-1.2	SITE PHOTOS
6	A-1.3	ADJACENT SITES AND BUILDINGS
7	A-1.4	SITE RENDERING
8	A-1.5	SITE RENDERINGS
9	A-2.0	FLOOR PLAN & ROOF PLAN
10	A-3.0	BLDG. ELEVATIONS - WASH TUNNEL BLDG.
11	A-3.1	BLDG. ELEVATIONS - TOILET, VACUUM ROOM BLDG. , MONITORING ROOM BLDG.
12	A-3.2	BLDG. ELEVATIONS W/ ADJACENT BUILDINGS
13	A-4.0	BLDG. SECTIONS
14	A-5.0	DOOR, WINDOW SCHEDULE
15	A-6.0	FINISH MATERIALS
G	RADIN	G
1	C-1	TITLE / NOTES
2	C-2	GRADING / DRAINAGE PLAN
3	C-3	LID PLAN
4	C-4	DETAILS
5	C-5	DETAILS
L	ANDSC	APE
1	L-1	PLANTING PLAN
2	L-2	IRRIGATION PLAN
3	L-3	IRRIGATION & PLANTING DETAILS
S	IGNAG	E
1	SN-1	SIGN PLAN - SIGN LOCATION & DIMENSIONS
2	SN-2	SIGN PLAN - SIGN INSTALLATION DETAIL AND MONUMENT SIGN
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AND ARRANGEMENT REPRESENTED THERE BY ARE
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 $A \cdot R \cdot C \cdot H$ GROUPARCH. DEVELOPMENT, INC.

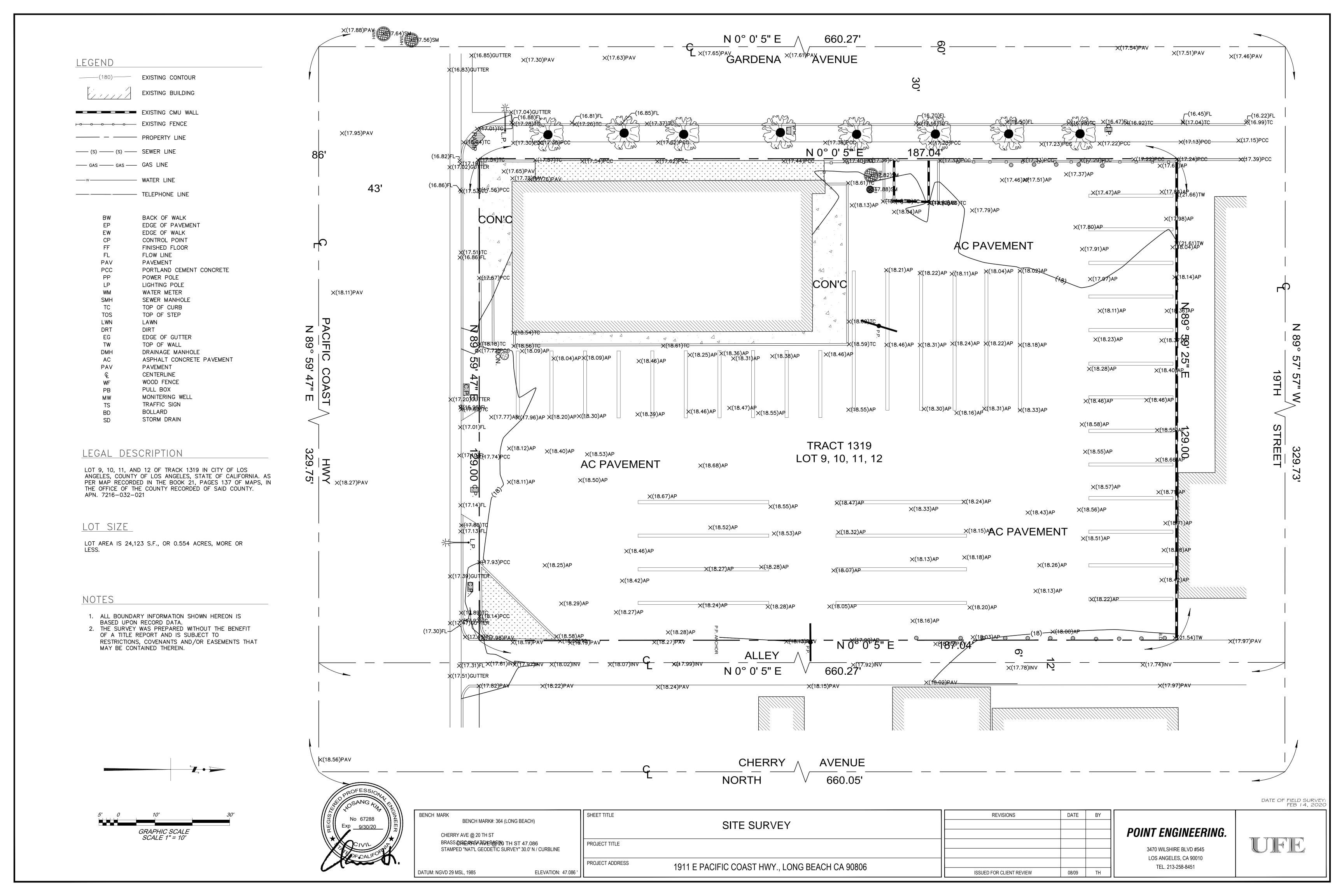
ARCHITECTURE, PLANNING, INTERIORS, CONSULTANTS

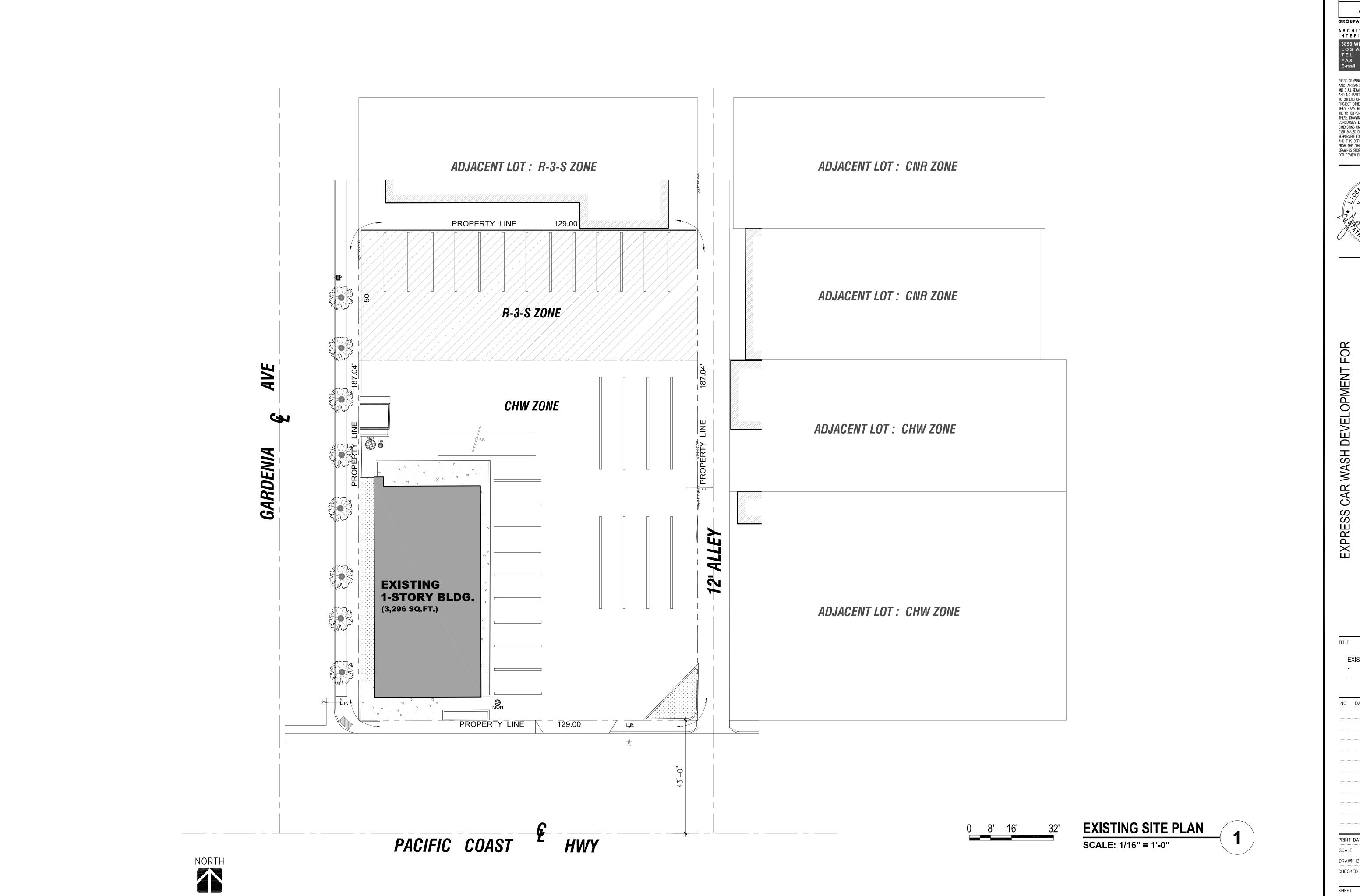
PROJECT INFORMATION NO DATE

7.12.2021 SUBMIT FOR CUP (PROPOSED CON ZONE)

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SHEET INDEX





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GROUPARCH. DEVELOPMENT, INC. A R C H I T E C T U R E, P L A N N I N G, I N T E R I O R S, C O N S U L T A N T S 3850 WILSHIRE BLVD. SUITE 208 LOS ANGELES, CA 90010 TEL: 213 - 383 - 2088 FAX: 213 - 387 - 3867 E-mail: GAinfo @grouparch.net

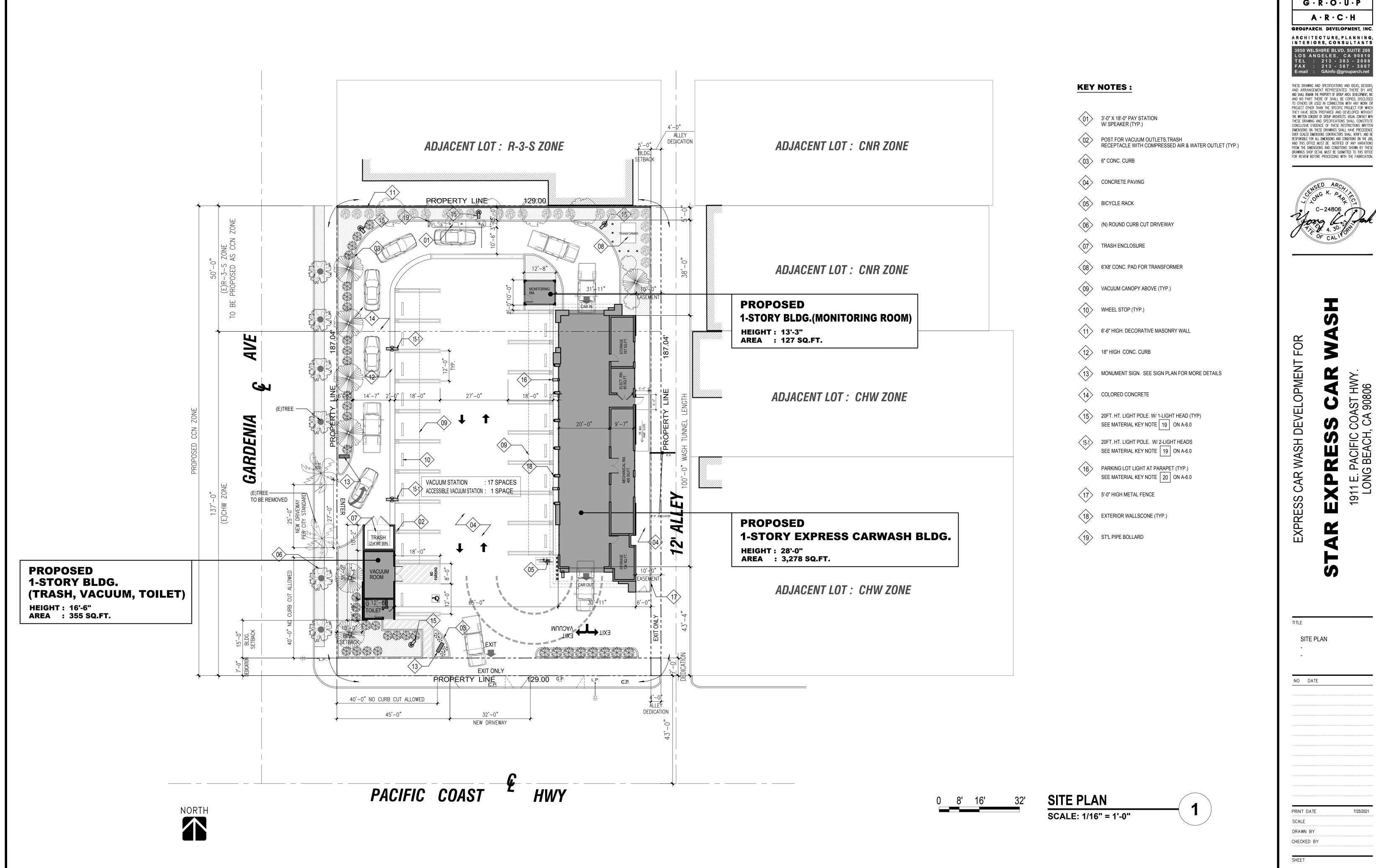
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EXISTING SITE PLAN

NO DATE

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SCALE CHECKED BY

SITE PLAN

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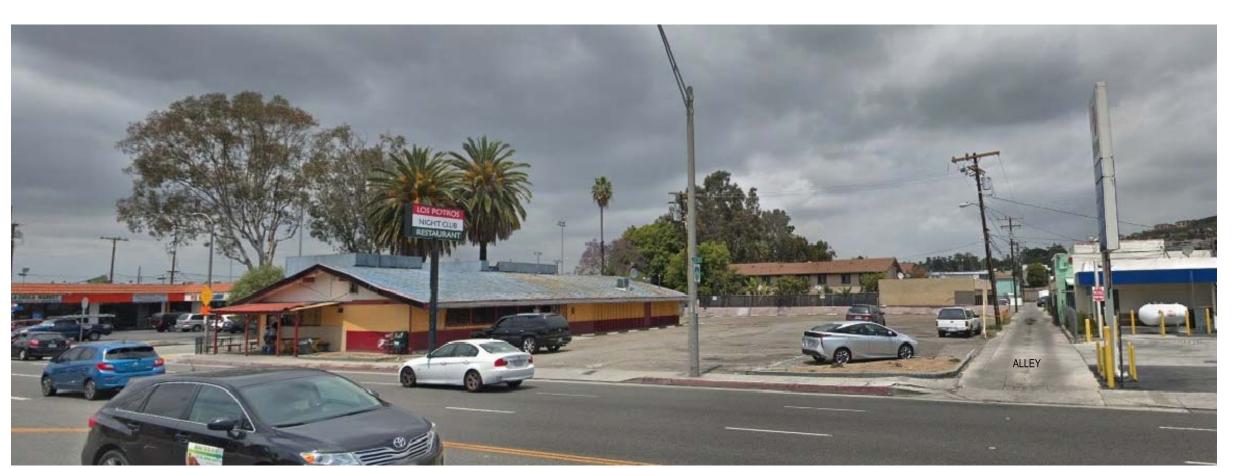
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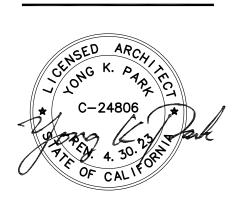
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ARCHITECTURE, PLANNING, INTERIORS, CONSULTANTS

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EXPRESS CAR W. 1911 E. PACIFIC COAST HWY.

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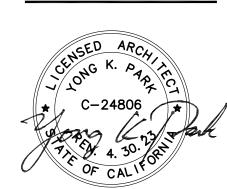
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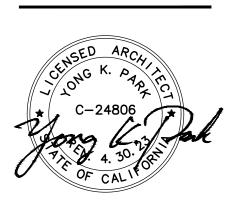
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1911 E. PACIFIC COAST HWY.
LONG BEACH, CA 90806

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EXPRESS CAR W 1911 E. PACIFIC COAST HWY. LONG BEACH, CA 90806

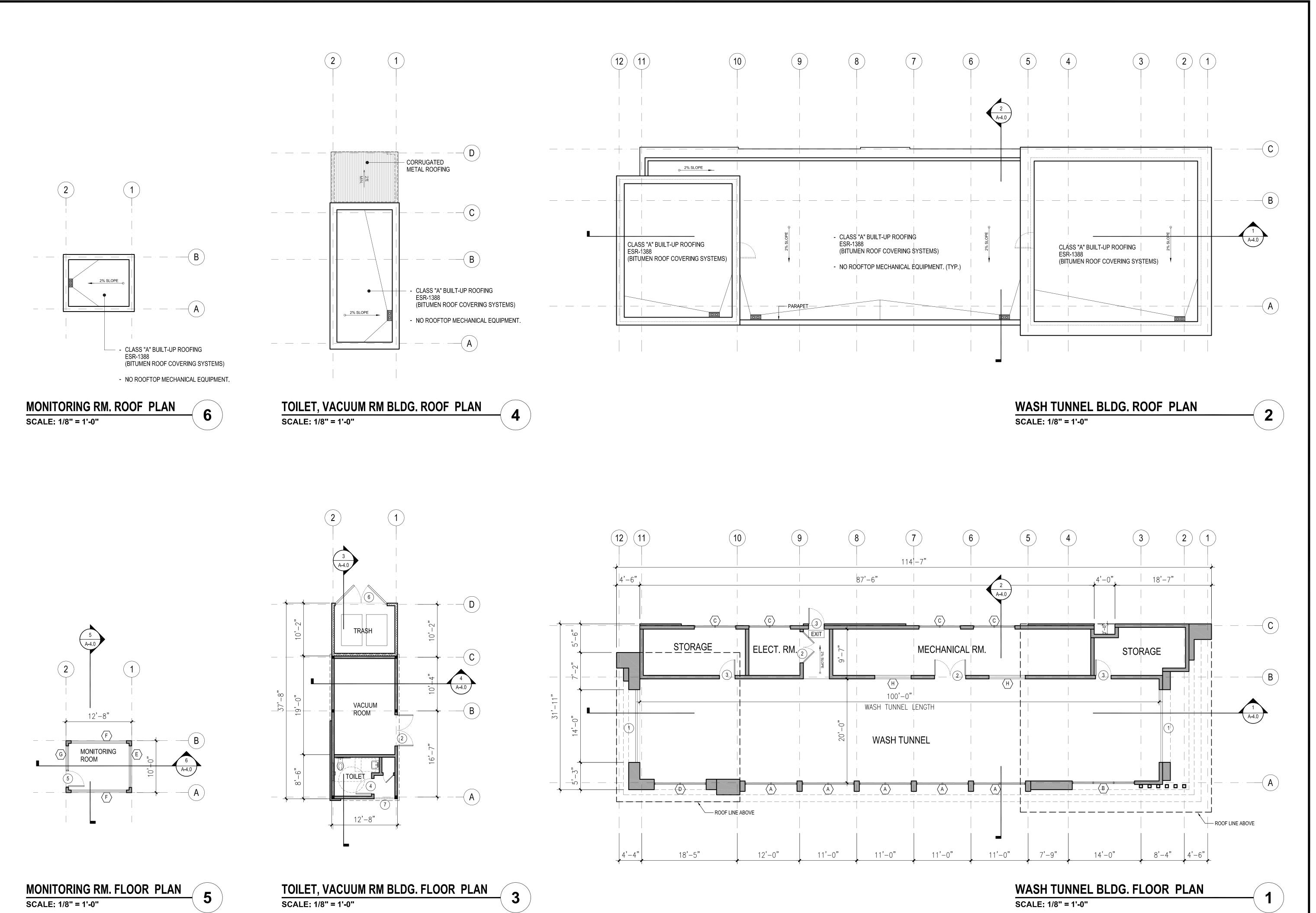
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SITE RENDERINGS

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LONG

MASH DEVELOPMENT

EXPRESS CAR

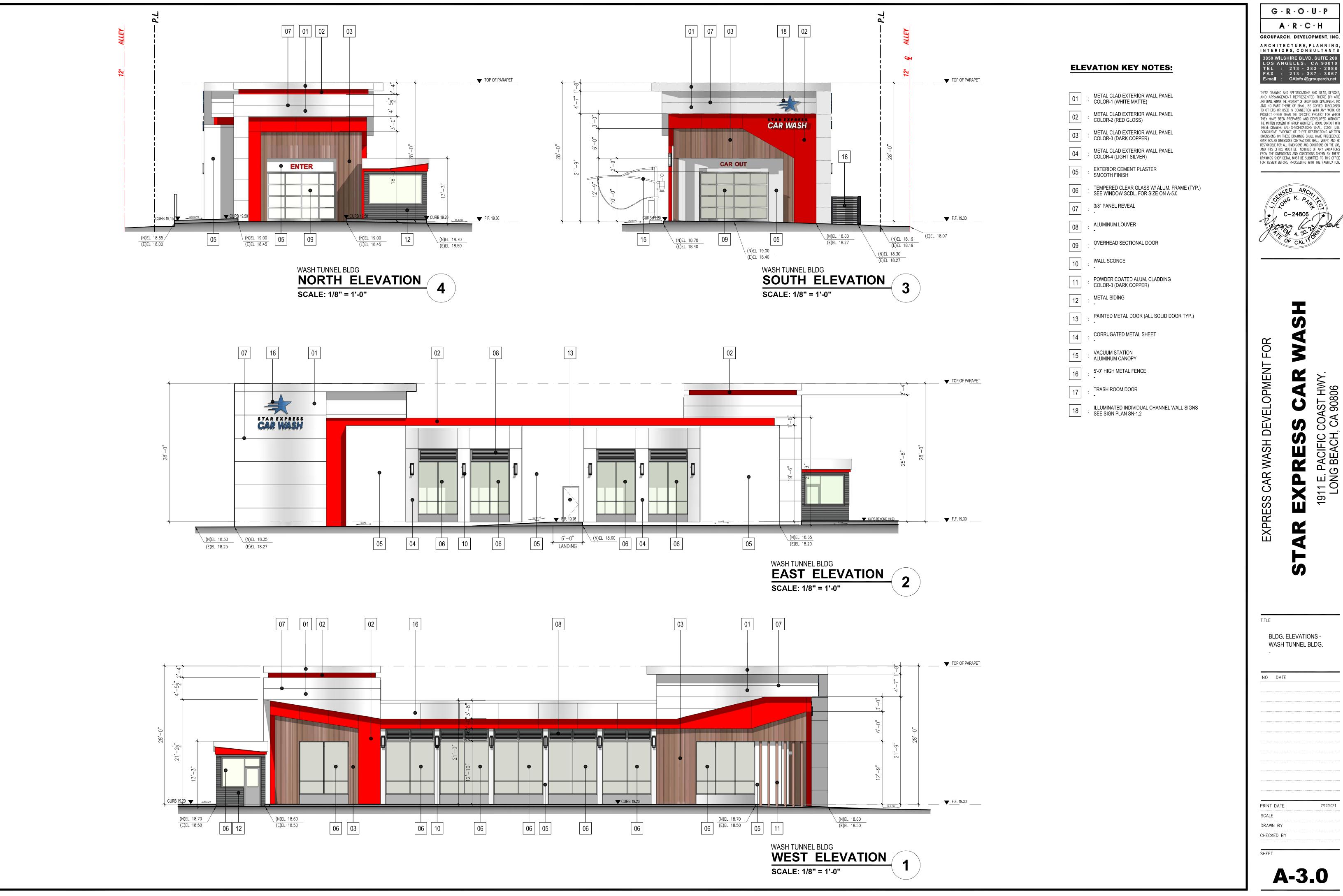
FLOOR PLAN & **ROOF PLAN**

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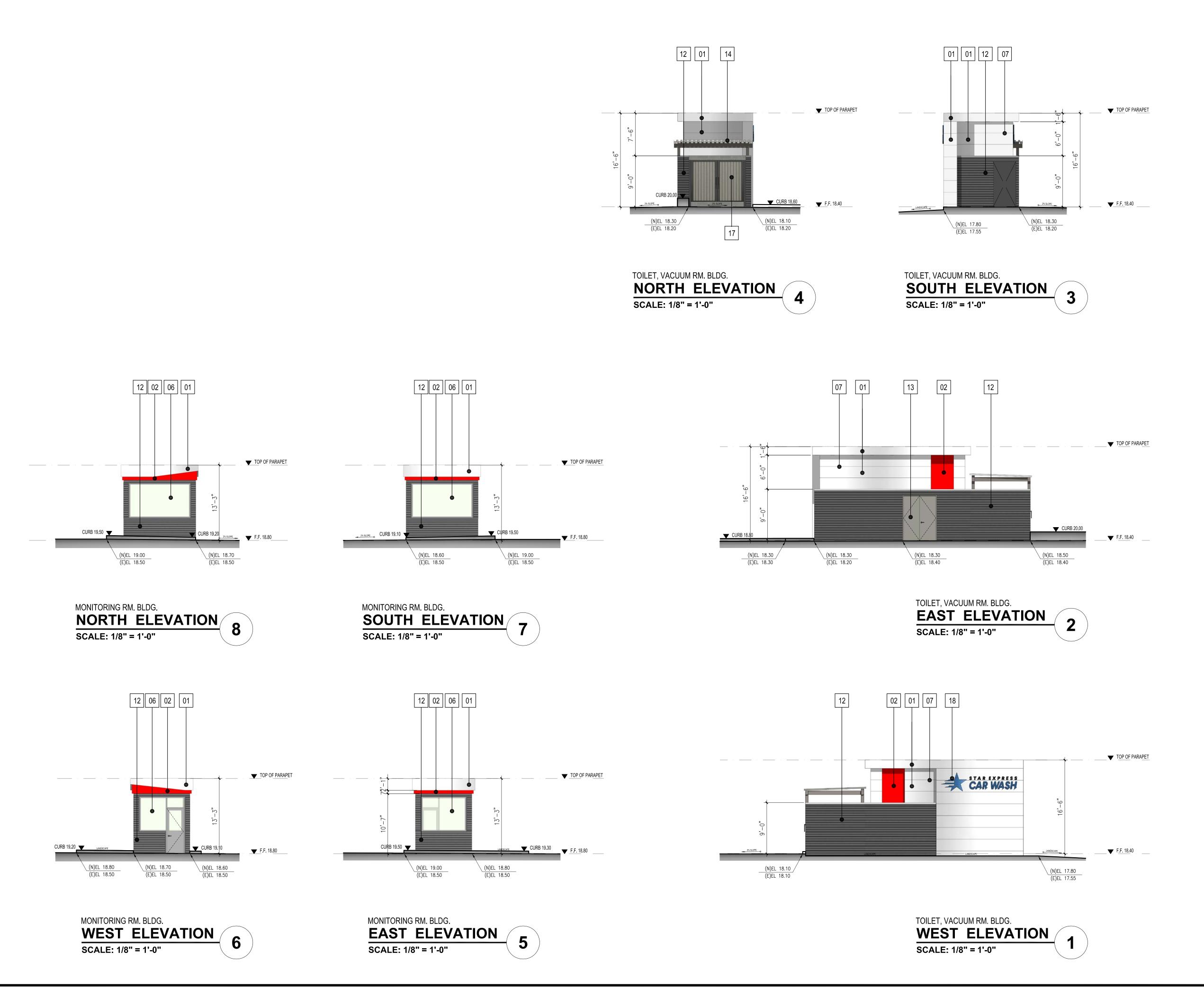
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BLDG. ELEVATIONS -WASH TUNNEL BLDG.

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A-3.0



ELEVATION KEY NOTES:

METAL CLAD EXTERIOR WALL PANEL COLOR-1 (WHITE MATTE)

METAL CLAD EXTERIOR WALL PANEL

COLOR-2 (RED GLOSS)

COLOR-3 (DARK COPPER)

COLOR-4 (LIGHT SILVER)

SMOOTH FINISH

SEE WINDOW SCDL. FOR SIZE ON A-5.0

3/8" PANEL REVEAL

WALL SCONCE

METAL SIDING

PAINTED METAL DOOR (ALL SOLID DOOR TYP.)

CORRUGATED METAL SHEET

VACUUM STATION

5'-0" HIGH METAL FENCE

ILLUMINATED INDIVIDUAL CHANNEL WALL SIGNS SEE SIGN PLAN SN-1,2

METAL CLAD EXTERIOR WALL PANEL

METAL CLAD EXTERIOR WALL PANEL

EXTERIOR CEMENT PLASTER

TEMPERED CLEAR GLASS W/ ALUM. FRAME (TYP.)

ALUMINUM LOUVER

OVERHEAD SECTIONAL DOOR

POWDER COATED ALUM. CLADDING COLOR-3 (DARK COPPER)

ALUMINUM CANOPY

TRASH ROOM DOOR

EXPRESS CAR

PACIFIC (BEACH,

DEVELOPMENT

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 $A \cdot R \cdot C \cdot H$ GROUPARCH. DEVELOPMENT, INC.

A R C H I T E C T U R E, P L A N N I N G, I N T E R I O R S, C O N S U L T A N T S

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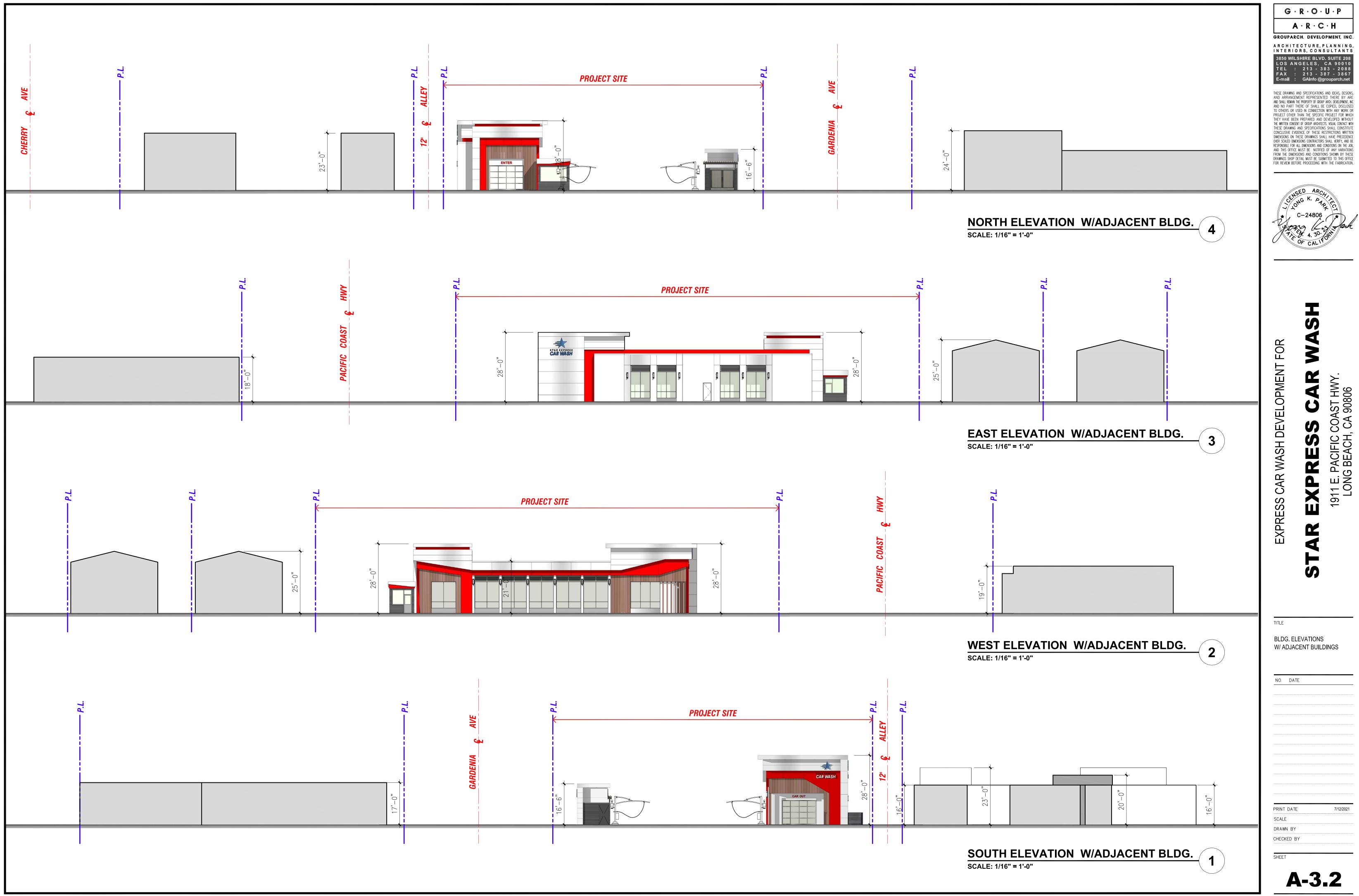
DRAWINGS SHOP DETAIL MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH THE FABRICATION.

BLDG. ELEVATIONS -TOILET, VACUUM RM. BLDG. MONITORING RM. BLDG.

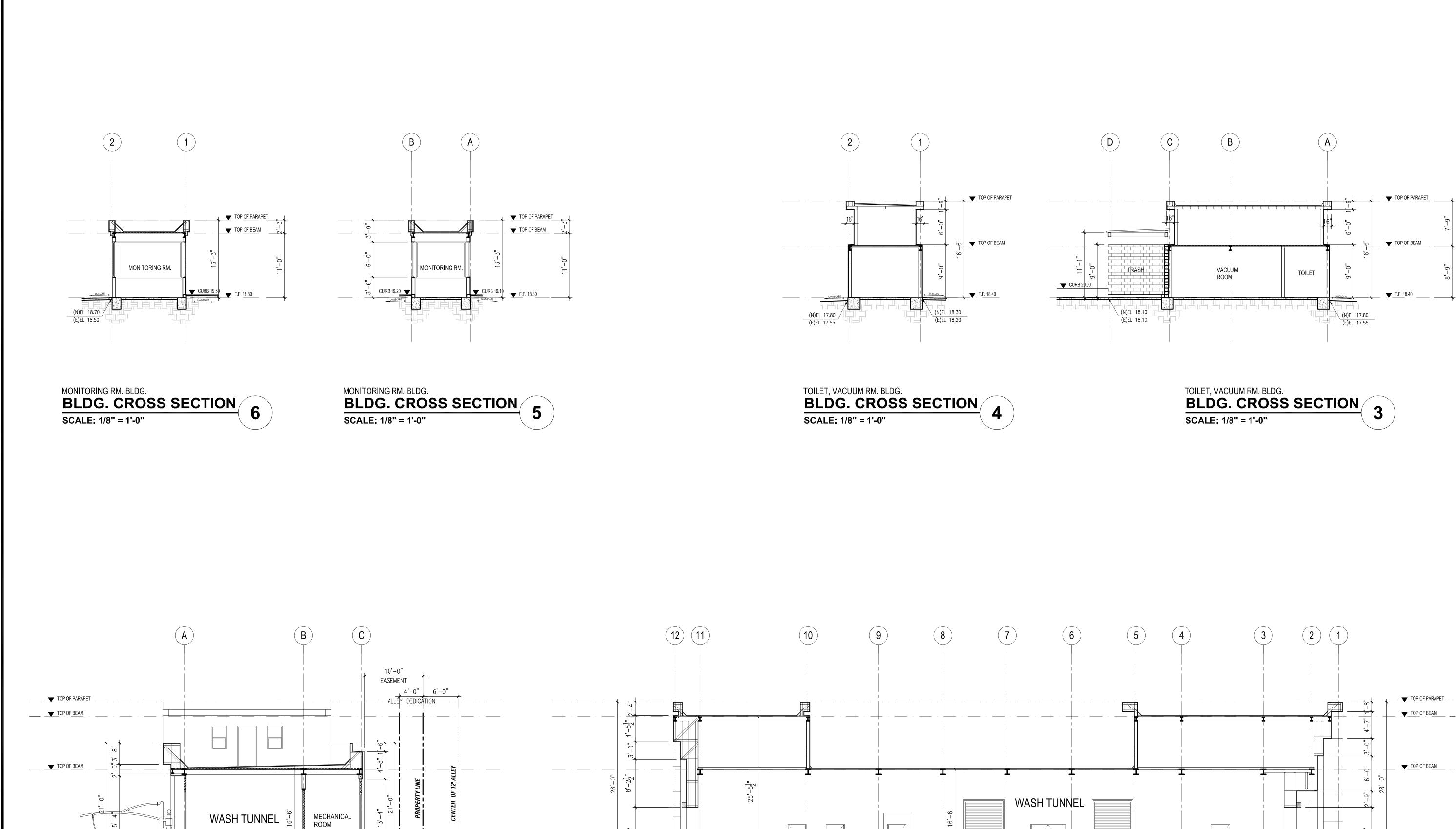
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(N)EL 19.00 (E)EL 18.40

TOP OF PARAPET ___ TOP OF BEAM F.F. 19.30 _____ (N)EL 19.00 (E)EL 18.45

WASH TUNNEL BLDG
BLDG. CROSS SECTION
2 SCALE: 1/8" = 1'-0"

(N)EL 18.30 (E)EL 18.27

(N)EL 18.19 (E)EL 18.19

WASH TUNNEL BLDG
BLDG. CROSS SECTION SCALE: 1/8" = 1'-0"

PRINT DATE SCALE DRAWN BY CHECKED BY

BLDG. SECTIONS

NO DATE

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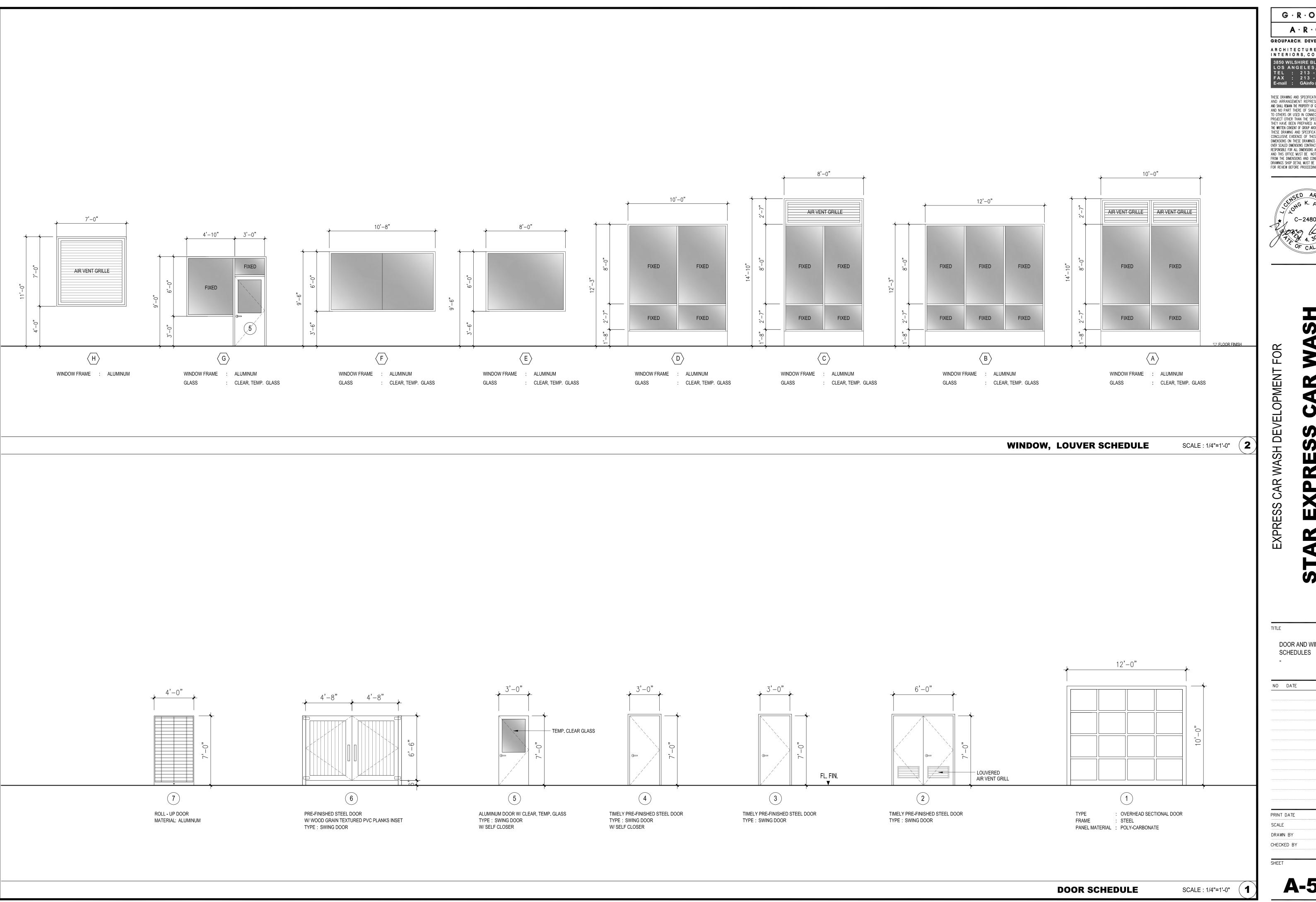
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WASH DEVELOPMENT FOR

EXPRESS CAR

EXPRESS 1911 E. PACIFIC C LONG BEACH, (



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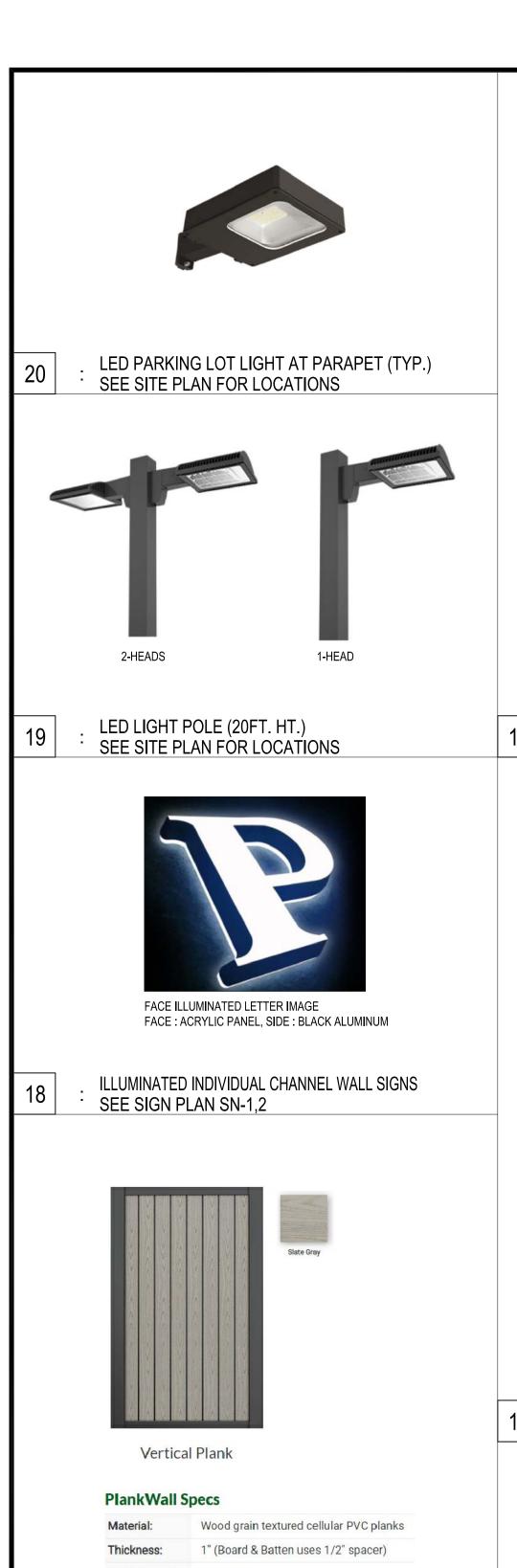
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CAR4ST HWY.
90806 1911 E. PACIFIC C LONG BEACH, (

DOOR AND WINDOW





CORRUGATED METAL SHEET (FOR TRASH ROOM COVER)

CANOPY IMAGE

FINISH COLOR

T009-RD03 Red 90% Gloss

VACUUM STATION

ALUMINUM CANOPY

PERFORATED METAL: ALUMINUM 03003H14,

40% OPEN AREA

0.125 MILL FINISH 1/8"HOLES,



METAL CLAD EXTERIOR WALL PANEL

CORRUGATED METAL WALL PANEL (GREY)



OVERHEAD SECTIONAL DOOR

ALUMINUM FRAME, CLEAR GLASS



EXTERIOR CEMENT PLASTER

SMOOTH FINISH

TEMPERED CLEAR GLASS W/ ALUM. FRAME

TYP.



METAL CLAD EXTERIOR WALL PANEL

COLOR-3 (DARK COPPER)





TRASH ROOM DOOR -METAL FRAME W/ WOOD GRAIN TEXTURED PVC PLANKS INSET

Up to 14'

Post spacing:

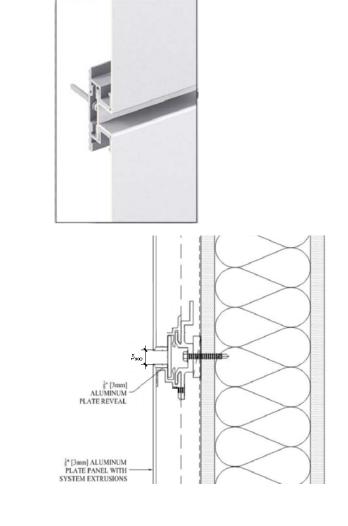


4'-6" HIGH METAL FENCE (AT ALLEY SIDE)

PAINTED METAL DOOR (ALL SOLID DOOR TYP.)



WALL SCONE



. 3/8" PANEL REVEAL



METAL CLAD EXTERIOR WALL PANEL COLOR-4 (LIGHT SILVER)



METAL CLAD EXTERIOR WALL PANEL COLOR-1 (WHITE MATTE)

 $G \cdot R \cdot O \cdot U \cdot P$

 $A \cdot R \cdot C \cdot H$ GROUPARCH. DEVELOPMENT, INC.

A R C H I T E C T U R E, P L A N N I N G, I N T E R I O R S, C O N S U L T A N T S

3850 WILSHIRE BLVD. SUITE 208 LOS ANGELES, CA 90010 TEL : 213 - 383 - 2088 FAX : 213 - 387 - 3867 E-mail : GAinfo @grouparch.net

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AND NO PART THERE OF SHALL BE COPIED, DISCLOSED TO OTHERS OR USED IN CONNECTION WITH ANY WORK OR PROJECT OTHER THAN THE SPECIFIC PROJECT FOR WHICH

THEY HAVE BEEN PREPARED AND DEVELOPED WITHOUT THE WRITTEN CONSENT OF GROUP ARCHITECTS. VISUAL CONTACT WITH THESE DRAWING AND SPECIFICATIONS SHALL CONSTITUTE

CONCLUSIVE EVIDENCE OF THESE RESTRICTIONS WRITTEN DIMENSIONS ON THESE DRAWINGS SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS CONTRACTORS SHALL VERIFY, AND BE

RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON THE JOB, AND THIS OFFICE MUST BE NOTIFIED OF ANY VARIATIONS FROM THE DIMENSIONS AND CONDITIONS SHOWN BY THESE

DRAWINGS SHOP DETAIL MUST BE SUBMITTED TO THIS OFFICE FOR REVIEW BEFORE PROCEEDING WITH THE FABRICATION.

EXPRESS 1911 E. PACIFIC C LONG BEACH, (

DEVELOPMENT

EXPRESS CAR

FINISH MATERIALS NO DATE

PRINT DATE SCALE DRAWN BY CHECKED BY

A-6.0

PRECISE GRADING AND DRAINAGE PLAN

1911 E. PACIFIC COAST HWY., LONG BEACH, CA 90806

— GRATED CATCH BASIN

GRADE CHANGE

SPOT ELEVATION

FIRE HYDRANT

--- PROPERTY LINE

-- PATH OF TRAVEL

LIMIT OF GRADING

((General Information)

Grading Permit Application No. GR____

Earthwork Volumes Cut________(cy), Fill______ (cy) *

Total Proposed Landscape Area ______2,626_____ Square Feet

Total Turf Area _____% (Percent of Total Proposed Landscaping)

Total Disturbed Area ______ (Acres)

Post-Development Impervious area _____*O.456*_

Property Owner ___SM WASH LLC,

(Zoning, Regional Planning, and other Agency Information)

Intended Land Use: COMMERCIAL, CAR WASH

(For proposed graded areas — i.e. ... Single Family Residence)

Certificate of Compliance: CC NO._____

Community Standards District:______

Plot Plan Number: PP NO.______

Conditional Use Permit: CUP NO._____ Expiration Date: _____

Oak Tree Permit Number: OTP NO.______ Expiration Date: _____

California Coastal Commission Area: ______Yes, _____No Approved volume: _____(cy)

Coastal Development Permit CDP______ Expiration Date: _____

Over Excavation/ Alluvial Removal & Compaction _____576___(cy)

Waste Discharge Identification Number (WDID #) ______

Construction & Demolition Debris Recycling and Reuse Plan (RPP ID) ______ *

Post-construction BMP feature(s) GPS coordinates x 33.79012, y -118.16855 (RAIN TANKS)

1911 E. PACIFIC COAST HWY., LONG BEACH, CA 90806

Total Drought Tolerant Landscaping Area $\underline{100}$ % (Percent of Total Proposed Landscaping) 3

----R----R----RIDGE LINE

RETAINING WALL

LEGEND:

TAD TOP OF AREA DRAIN

TOP OF FENCE

TOP OF GRATE TOP OF HEADER

TOP OF FOOTING

TOP OF MANHOLE

TOP OF SLOPE

TTD TOP OF TRENCH DRAIN

VCP VITRIFIED CLAY PIPE

W WATER, WIDTH, WEST

TOP OF MOW STRIP

TOP OF PLANTER DRAIN

TELECOMMUNICATIONS

TELE TELEPHONE,

TEMP TEMPORARY

THICK

TOS TOP OF STEP

TW TOP OF WALL

TYP TYPICAL

VAR VARIABLE

VERT VERTICAL

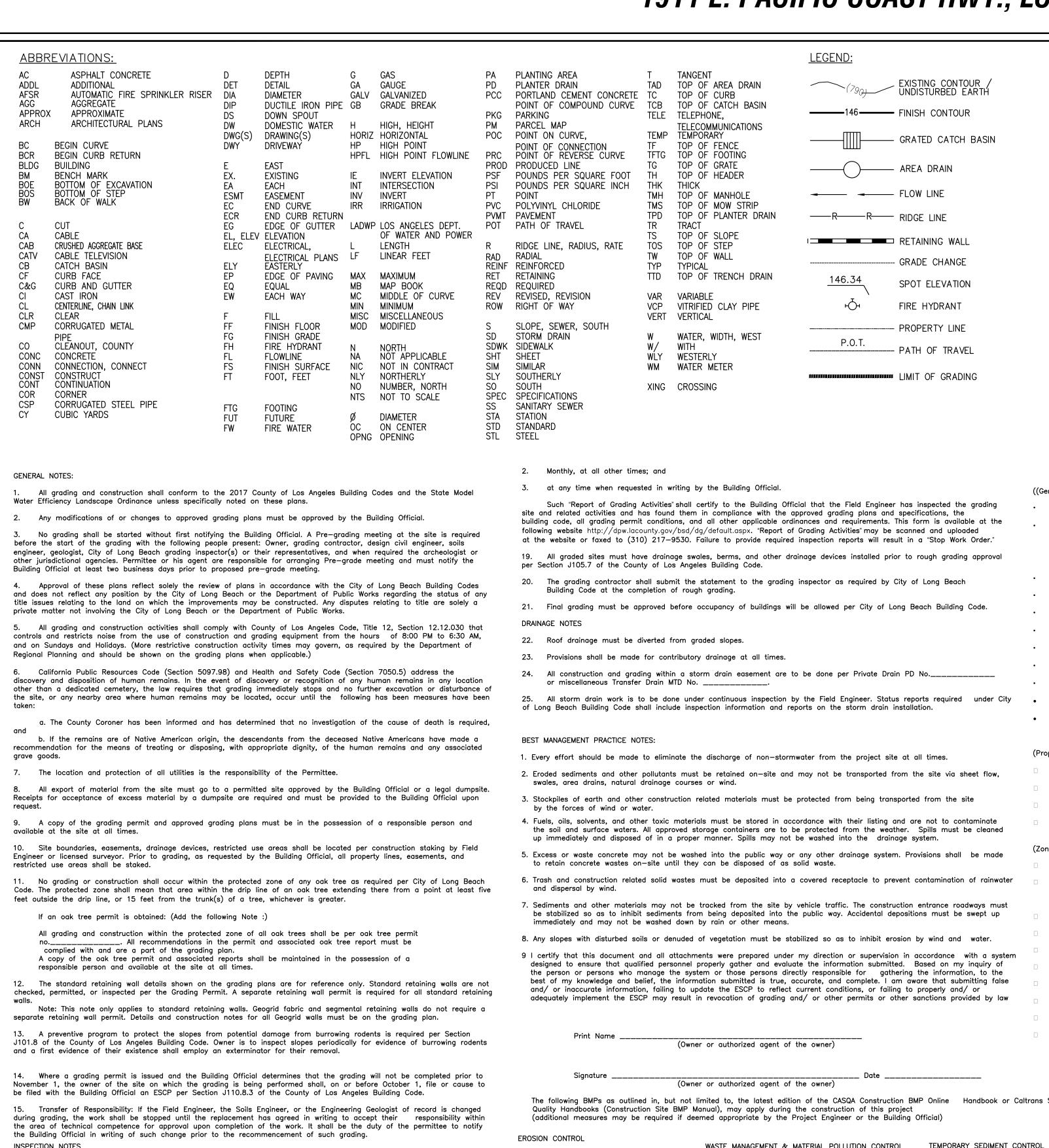
WLY WESTERLY

XING CROSSING

WM WATER METER

W/ WITH

THK



PROJECT SITE—	VENUE	AVENUE	OTH STREET
GARVIOTA AVENUE	ROSE AVENUE GARDENIA	CHERRY CA	CLYDEBANK AVENUE SOCIAL COLYDEBANK AVENUE SOCI
		ITY MAP : NONE	_

	INDEX TO SHEET
SHEET	DESCRIPTION
C-1	TITLE / NOTES
C-2	DRAINAGE
C-3	LID PLAN
C-4	DETAILS
C-5	DETAILS

CONTACT INFORAMTION

SM WASH LLC, (CONTACT: JOHN LEE) 3055 WILSHIRE BLVD STE 405, LOS ANGELES, CA 90010 949 - 468 - 6069

Export __417 (cy), Export Location: __13620 WORKMAN MILL RD. INDUSTRY, CA * CIVIL ENGINEER: POINT ENGINEERING, INC. 3470 WILSHIRE BLVD #545, LOS ANGELES, CA 90010 213 - 258 - 8451

> SOIL ENGINEER: DON SOILS ENGINEERING, CO 2225 S. LA BREA AVE. LOS ANGELES, CA900016 323 - 936 - 6763

STANDARD PLANS FOR THIS PROJECT: STD. PLAN NO. DESCRIPTION

DRIVEWAY APPROACH

AMERICAN PUBLIC WORKS ASSOCIATION

STD. PLAN NO. DESCRIPTION CURB AND SIDEWALK JOINTS CURB DRAIN

LEGAL DESCRIPTION

LOT 9. 10. 11. AND 12 OF TRACK 1319 IN CITY OF LONG BEACH. COUNTY OF LOS ANGELES, STATE OF CALIFORNIA. AS PER MAP RECORDED IN THE BOOK 21, PAGES 137 OF MAPS. IN THE OFFICE OF THE COUNTY RECORDED OF SAID COUNTY.

BENCH MARK

BENCH MARK: 364 (LONG BEACH) CHERRY AVE @ 20 TH ST. BRASS DISC IN CATCH BASIN; STAMPED "NAT'L GEODETIC SURVEY" 30.0' N / CURBLINE ELE. = 47.086 FT.

> RAW CUT — 417 CUBIC YARDS IMPORT/EXPORT ESTIMATES

AREA = 5.180 S.F.

 $5.180 \times 3.0 = 576 \text{ CUBIC YARDS}$

ASSESSORS PARCEL NO. 7216-032-021

EARTHWORKS SUMMARY

RAW CUT-AREA = 22.500 S.F.DEPTH = 0.5 FT. $22.500 \times 0.5 = 417 \text{ CUBIC YARDS}$

EXPORT — 417 CUBIC YARDS

REMOVAL AND RECOMPACTION -

DEPTH = 3.0 FT.

Fish & Wildlife, Army Corp of Engineers, Regional Water Control Board, AQMD & Other Agency Permits s (Owner or authorized agent of the owner)

The following BMPs as outlined in, but not limited to, the latest edition of the CASQA Construction BMP Online Handbook or Caltrans Stormwater Quality Handbooks (Construction Site BMP Manual), may apply during the construction of this project (additional measures may be required if deemed appropriate by the Project Engineer or the Building Official)

EC1 SCHEDULING

16. The permittee or his agent shall notify the Building Official at least one working day in advance of required inspections at EC2 PRESERVATION OF EXISTING VEGETATION EC3 HYDRAULIC MULCH EC4 HYDROSEEDING EC5 SOIL BINDERS

- FC6 STRAW MULCH
- EC7 GEOTEXTILES & MATS EC8 WOOD MULCHING EC9 EARTH DIKES AND DRAINAGE SWALES EC10 VELOCITY DISSIPATION DEVICES
- EC11 SLOPE DRAINS EC12 STREAMBANK STABILIZATION EC14 COMPOST BLANKETS EC15 SOIL PREPARATION\ROUGHENING EC16 NON-VEGETATED STABILIZATION

WASTE MANAGEMENT & MATERIAL POLLUTION CONTROL

WM1 MATERIAL DELIVERY AND STORAGE WM2 MATERIAL USE WM3 STOCKPILE MANAGEMENT WM4 SPILL PREVENTION AND CONTROL WM5 SOLID WASTE MANAGEMENT WM6 HAZARDOUS WASTE MANAGEMENT

WM10 LIQUID WASTE MANAGEMENT

WM7 CONTAMINATION SOIL MANAGEMENT WM8 CONCRETE WASTE MANAGEMENT WM9 SANITARY/SEPTIC WASTE MANAGEMENT

SE2 SEDIMENT BASIN SE3 SEDIMENT TRAP SE4 CHECK DAM SE5 FIBER ROLLS SE6 GRAVEL BAG BERM SE7 STREET SWEEPING AND VACUUMING SE8 SANDBAG BARRIER

TEMPORARY SEDIMENT CONTROL

SE9 STRAW BALE BARRIER SE10 STORM DRAIN INLET PROTECTION SE11 ACTIVE TREATMENT SYSTEMS SE12 TEMPORARY SILT DIKE SE13 COMPOST SOCKS & BERMS SE14 BIOFILTER BAGS

WIND EROSION CONTROL WE1 WIND EROSION CONTROL

EQUIPMENT TRACKING CONTROL

TC1 STABILIZED CONSTRUCTION ENTRANCE EXIT TC2 STABILIZED CONSTRUCTION ROADWAY TC3 ENTRANCE/OUTLET TIRE WASH

NON-STORMWATER MANAGEMENT

NS1 WATER CONSERVATION PRACTICES NS2 DEWATERING OPERATIONS NS3 PAVING AND GRINDING OPERATIONS NS4 TEMPORARY STREAM CROSSING NS5 CLEAR WATER DIVERSION

NS8 VEHICLE AND EQUIPMENT CLEANING NS9 VEHICLE AND EQUIPMENT FUELING NS10 VEHICLE AND EQUIPMENT MAINTENANCE NS11 PILE DRIVING OPERATIONS

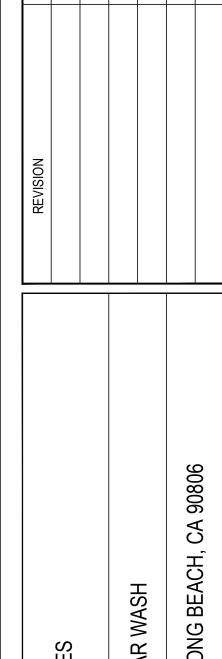
NS6 ILLICIT CONNECTION / DISCHARGE

NS7 POTABLE WATER/IRRIGATION

NS12 CONCRETE CURING NS13 CONCRETE FINISHING NS14 MATERIAL AND EQUIPMENT USE NS15 DEMOLITION ADJACENT TO WATER NS16 TEMPORARY BATCH PLANTS

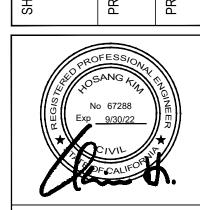


ENGINEERING



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SCALE

DATE JULY 07, 2021

SHEET

OF 5 SHEETS

1.Bi-weekly during all times when grading of 400 cubic yards or more per week is occurring on the site;

b. Initial — When the site has been cleared of vegetation and unapproved fill has been scarified, benched or otherwise

prepared for fill. Fill shall not be placed prior to this inspection. Note: Prior to any construction activities, including grading, all

c. Rough — When approximate final elevations have been established; drainage terraces, swales and berms installed

systems installed and the As-Built plans, required statements, and reports have been submitted and approved.

d. Final - When grading has been completed; all drainage devices installed; slope planting established, irrigation

17. In addition to the inspection required by the Building Official for grading, reports and statements shall be submitted to

18. Unless otherwise directed by the Building Official, the Field Engineer for all engineered grading projects shall prepare

routine inspection reports as required under Section J105.11 of the County of Los Angeles Building Code. These reports,

storm water pollution prevention measures including erosion control devices which contain sediments must be installed.

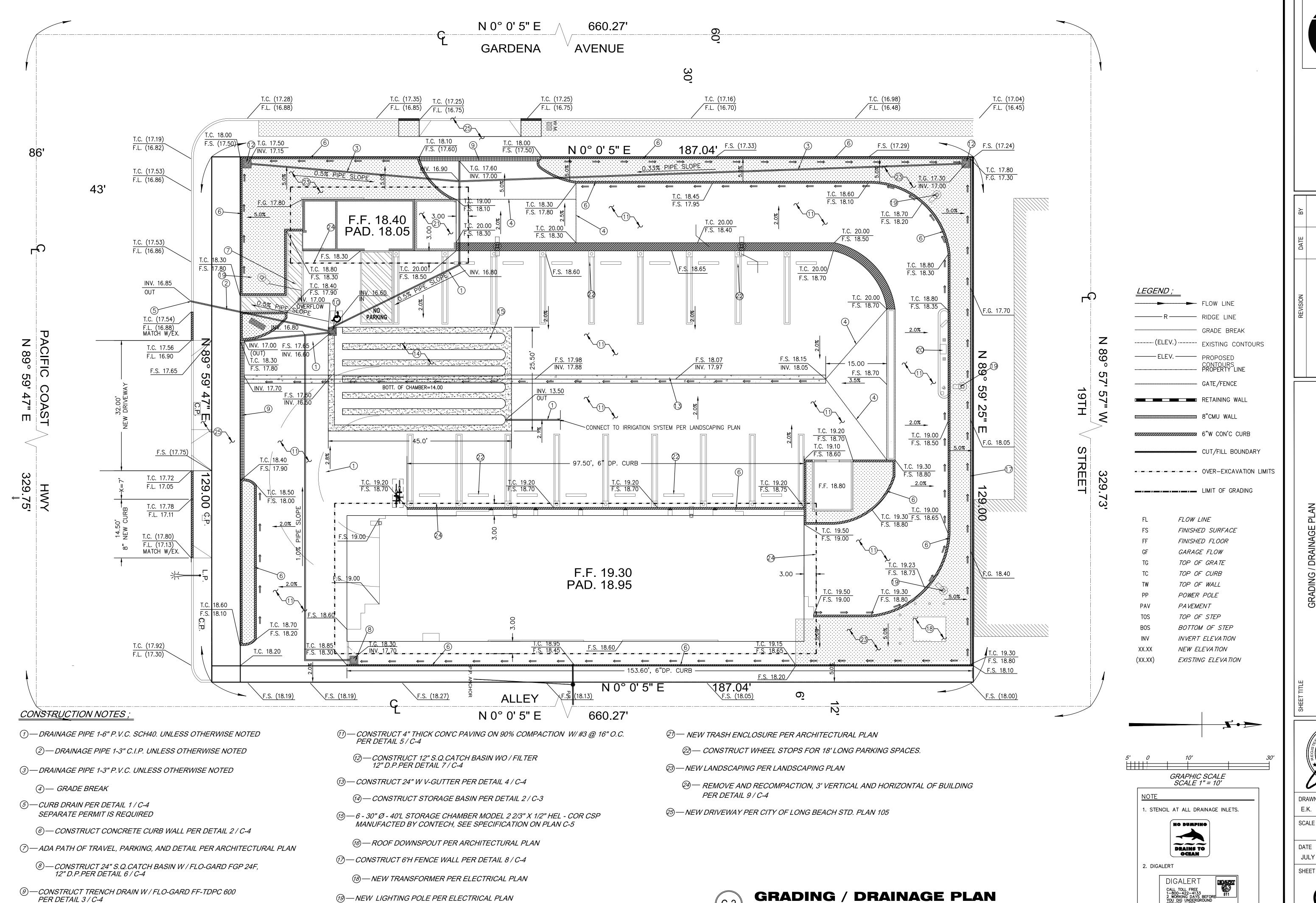
at the top of the slope; and the statements required in this Section have been received.

following stages of the work. (Section J105.7 of the Building Code.)

the Building Official in accordance with City of Long Beach Building Code.

a. Pre-grade - Before the start of any earth disturbing activity or construction.

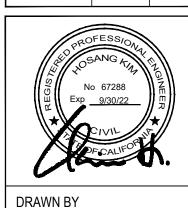
known as "Report of Grading Activities", shall be submitted to the Building Official as follows:



── PAY STATION PER ARCHITECTURAL PLAN

10 — CONSTRUCT 24" S.Q.CATCH BASIN WO / FILTER, W/ SOLID GRATE

24" D.P.PER DETAIL 6 / C-4



DRAWN BY

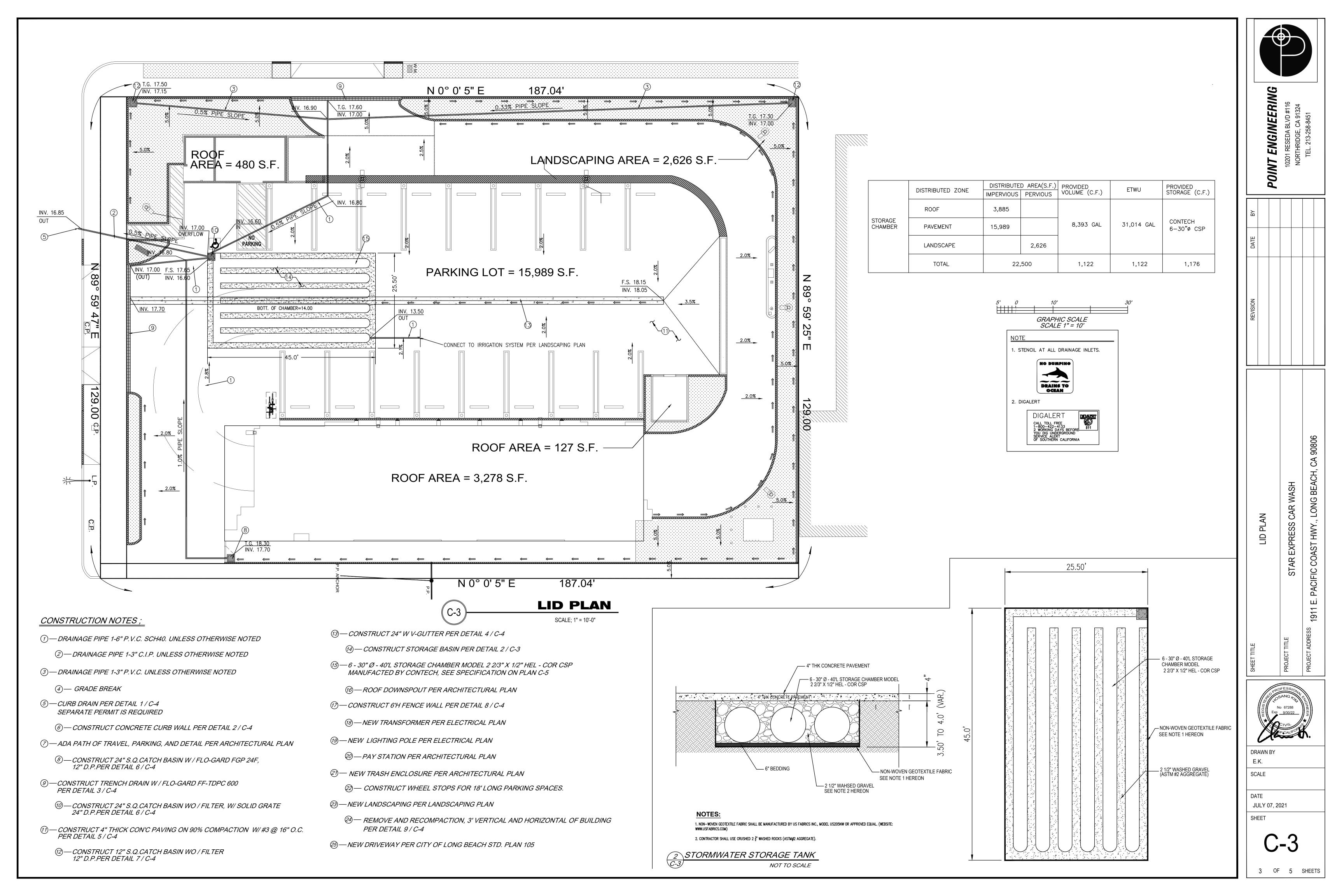
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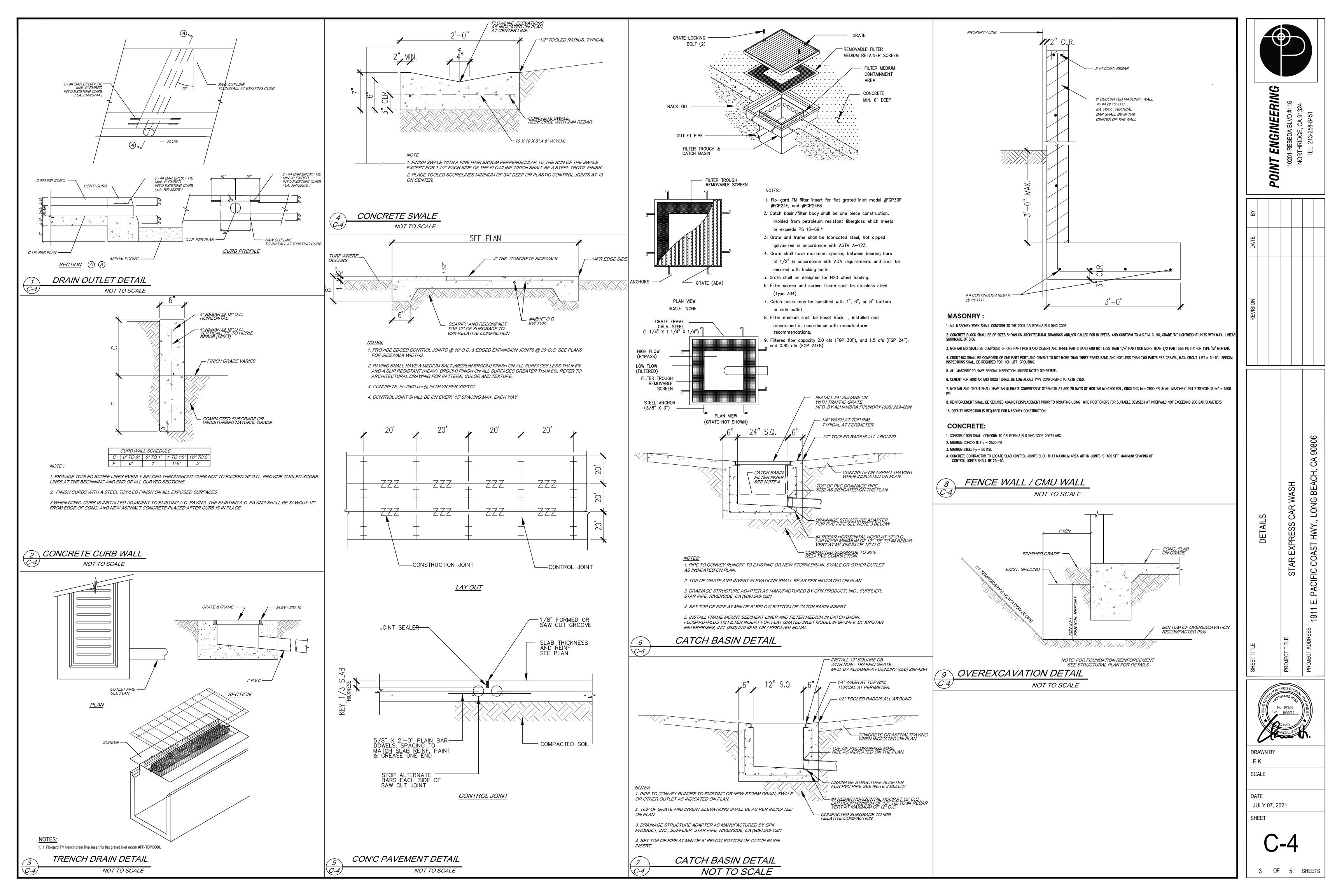
DATE

JULY 07, 2021 SHEET

2 OF 5 SHEETS

SCALE; 1" = 10'-0"





CMP Detention System Bedding and Backfill

Please follow the guidelines below regarding pipe bedding and backfill.

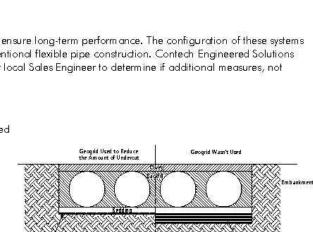
- 1. Minimum trench width must allow room for proper compaction of haunch materials under pipe. min. width = $(1.5 \times \text{diameter}) + 12^{\prime\prime}$ (follow AASHTO Section 12 & 26).
- a. The minimum embankment width is 3 pipe diameters.
- 2. The foundation shall be well consolidated & stable.
- 3. The bedding material shall be a relatively loose material that is roughly shaped to fit the bottom of the pipe, 4" to 6" in depth.
- 4. Bedding material shall be a relatively loose material that is roughly shaped to fit the bottom of the pipe, and a minimum of twice the corrugation depth in thickness, with the maximum particle size of onehalf of the corrugation depth (AASHTO Section 26.3.8.1, 26.5.3).
- a. Haunch zone material shall be hand shoveled or shovel sliced into place to allow for proper compaction.
- 5. H 20 and H 25 minimum cover is measured from top of pipe to bottom of flexible pavement or top of rigid pavement. Minimum cover is 12 inches for diameters up to and including 96", 18 inches for diameters ranging from 102" and greater.
- 6. Final backfill material selection and compaction requirements per the project plans, specifications, or engineer of record.
- 7. Geotextile shall be used as required to prevent soil migration.
- 8. Final backfill material selection and compaction requirements shall follow the project plans and specifications per the engineer of record

CMP Detention System Installation

Proper installation of a flexible underground detention system will ensure long-term performance. The configuration of these systems often requires special construction practices that differ from conventional flexible pipe construction. Contech Engineered Solutions strongly suggests scheduling a pre-construction meeting with your local Sales Engineer to determine if additional measures, not covered in this guide, are appropriate for your site.

Construct a foundation that can support the design loading applied by the pipe and adjacent backfill weight as well as maintain its integrity during construction.

If soft or unsuitable soils are encountered, remove the poor soils down to a suitable depth and then build up to the appropriate elevation with a competent backfill material. The structural fill material gradation should not allow the migration of fines, which can cause settlement of the detention system or pavement above. If the structural fill material is not compatible with the underlying soils an engineering fabric should be used as a separator. In some cases, using a stiff reinforcing geogrid reduces over excavation and replacement fill quantities.



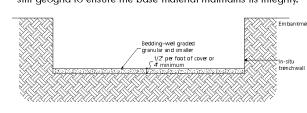
Single Manifold System

No Manifold System

Grade the foundation subgrade to a uniform or slightly sloping grade. If the subgrade is clay or relatively non-porous and the construction sequence will last for an extended period of time, it is best to slope the grade to one end of the system. This will allow excess water to drain quickly, preventing saturation of the subgrade.

Bedding

A 4 to 6-inch thick, well-graded, granular material is the preferred pipe bedding. If construction equipment will operate for an extended period of time on the bedding, use either an engineering fabric or a stiff geogrid to ensure the base material maintains its integrity.

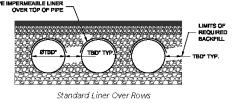


Using a relatively loose material, grade the base to a smooth, uniform grade to allow for the proper placement of the pipe. Using an open-graded bedding material is acceptable; however, an engineering fabric separator is required between the base and the

Geomembrane Barrier

A site's resistivity may change over time when various types of salting agents are used, such as road salts for deicing purposes. If salting agents are used on or near the project site, a geomembrane barrier must be used with the system. The geomembrane liner is intended to help protect the system from the potential adverse effects that may result from the use of such salting agents including premature corrosion and reduced actual service life.

The project's Engineer of Record is to evaluate whether salting agents will be used on or near the project site, and use his/her best judgement to determine if any additional protective measures are required. Below is a typical detail showing the placement of a geomembrane barrier for projects where salting agents are used on or near the project site.

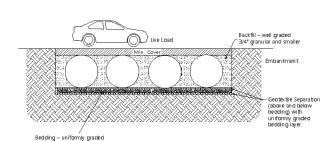


In-Situ Trench Wall

If excavation is required, the trench wall needs to be capable of supporting the load that the pipe sheds as the system is loaded. If soils are not capable of supporting these loads, the pipe can deflect. Perform a simple soil pressure check using the applied loads to determine the limits of excavation beyond the spring line of the outer most pipes. In most cases the requirements for a safe work environment and proper backfill placement and compaction take care of this concern.

Backfill Material

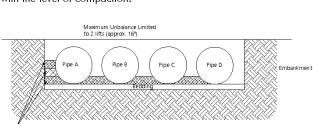
Typically, the best backfill material is an angular, well-graded, granular fill meeting the requirements of AASHTO A-1, A-2 or A-3. In some cases, it may be desirable to use a uniformly graded material for the first 18- to 24-inches. This type of material is easier to place under the haunches of the pipe and requires little compactive effort. Depending on the bedding material, a separation geotextile might be required above and below these initial lifts.



Open-graded fill is typically not used beyond the initial 18- to 24-inches because this type of fill often does not provide adequate confining restraint to the pipes. If a uniformly graded material (particles all one size) is used, install a geotextile separation fabric to prevent the migration of fines into the backfill.

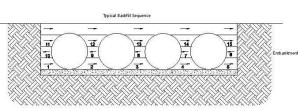
Backfill using controlled low-strength material (CLSM or "flowable fill") when the spacing between the pipes will not allow for placement and adequate compaction of the backfill. Work closely with the local Contech Stormwater Consultant regarding the special installation techniques required when using CLSM.

Place backfill in 8-inch loose lifts and compact to 90% AASHTO T99 standard proctor density. Material shall be worked into the pipe haunches by means of shovel-slicing, rodding, air tamper, vibratory rod, or other effective methods. If AASHTO T99 procedures are determined infeasible by the geotechnical engineer of record, compaction is considered adequate when no further yielding of the material is observed under the compactor, or under foot, and the geotechnical engineer of record (or representative thereof) is satisfied with the level of compaction.

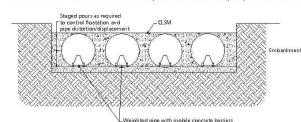


For large systems, conveyor systems, backhoes with long reaches or draglines with stone buckets may be used to place backfill.

Once minimum cover for construction loading across the entire width of the system is reached, advance the equipment to the end of the recently placed fill, and begin the sequence again until the system is completely backfilled. This type of construction sequence provides room for stockpiled backfill directly behind the backhoe, as well as the movement of construction traffic. Material stockpiles on top of the backfilled detention system should be limited to 8- to 10-feet high and must provide balanced loading across all barrels. To determine the proper cover over the pipes to allow the movement of construction equipment see Table 1, or contact your local Contech Stormwater Consultant.



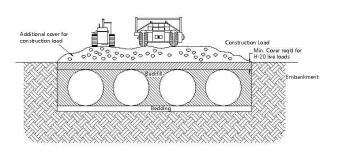
When flowable fill is used, you must prevent pipe floatation. Typically, small lifts are placed between the pipes and then allowed to set-up prior to the placement of the next lift. The allowable thickness of the CLSM lift is a function of a proper balance between the uplift force of the CLSM, the opposing weight of the pipe, and the effect of other restraining measures. The pipe can carry limited fluid pressure without pipe distortion or displacement, which also affects the CLSM lift thickness. Your local Contech Stormwater Consultant can help determine the proper lift thickness.



Construction Loading

Typically, the minimum cover specified for a project assumes H-20 live load. Because construction loads often exceed design live loads, increased temporary minimum cover requirements are necessary. Since construction equipment varies from job to job, it is best to address equipment specific minimum cover requirements with your local Contech Stormwater Consultant during your preconstruction meeting.

HEL-COR® Requirement	ents for He			uction	Wai
Pipe Span,	fo		over, Inches xle Loads (kip	os)	
Inches	18-50	50-75	75-110	110-150	
12 - 42	24	30	36	36	
10.70			100	1.0	



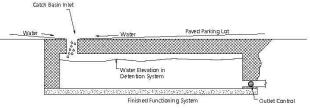
Please use the table below for general guidance.

	Corrugation		Minimum C uck Outrig		
Pipe Span,	Profile,	16 GA	14 GA	12 GA	10 GA
Inches	Inches	0.064	0.079	0.109	0.138
12 - 36	2 ² / ₃ x ¹ / ₂	12	12	12	12
42 - 48	2 ² / ₃ x ¹ / ₂	18	18	18	18
54 - 60	3x1 or 5x1	24	18		
72	3xlor5xl	30	24		
78 - 120	3x1 or 5x1		36	30	
126 - 144	3x1 or 5x1			42	36

- Minimum cover may vary depending on local conditions. The contractor must provide additional cover required to avoid damage to the pipe. Minimum cover is measured from the top of the pipe to the top of the
- maintained construction roadway surface. Table is based on a typical 85,000 lb GVW firetruck with an outrigger load of 64,000 lbs. The 64,000 lb outrigger force is applied over a surface area of about 850.6 in2. The dimensions of the outrigger square pad are
- 3. The outrigger load will be the heaviest load applied from the firetruck.

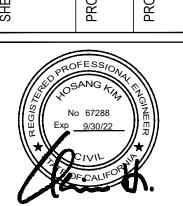
Additional Considerations

Because most systems are constructed below-grade, rainfall can rapidly fill the excavation; potentially causing floatation and movement of the previously placed pipes. To help mitigate potential problems, it is best to start the installation at the ownstream end with the outlet already constructed to allow a route for the water to escape. Temporary diversion measures may be required for high flows due to the restricted nature of the



ВУ				
DATE				
REVISION				

1		
	DETAILS	
JECT TITLE	ויסא/אי מארט סטדומתעד מאדט	
	STAR EAPREDS CAR WASH	
IECT ADDRESS	1011 E DACIEIO COACT LIMIV I ONIC DEACH OA 00806	
	ISTED TO A SOURCE COAST TWEE, FOR SERVER, OR SUCCE	

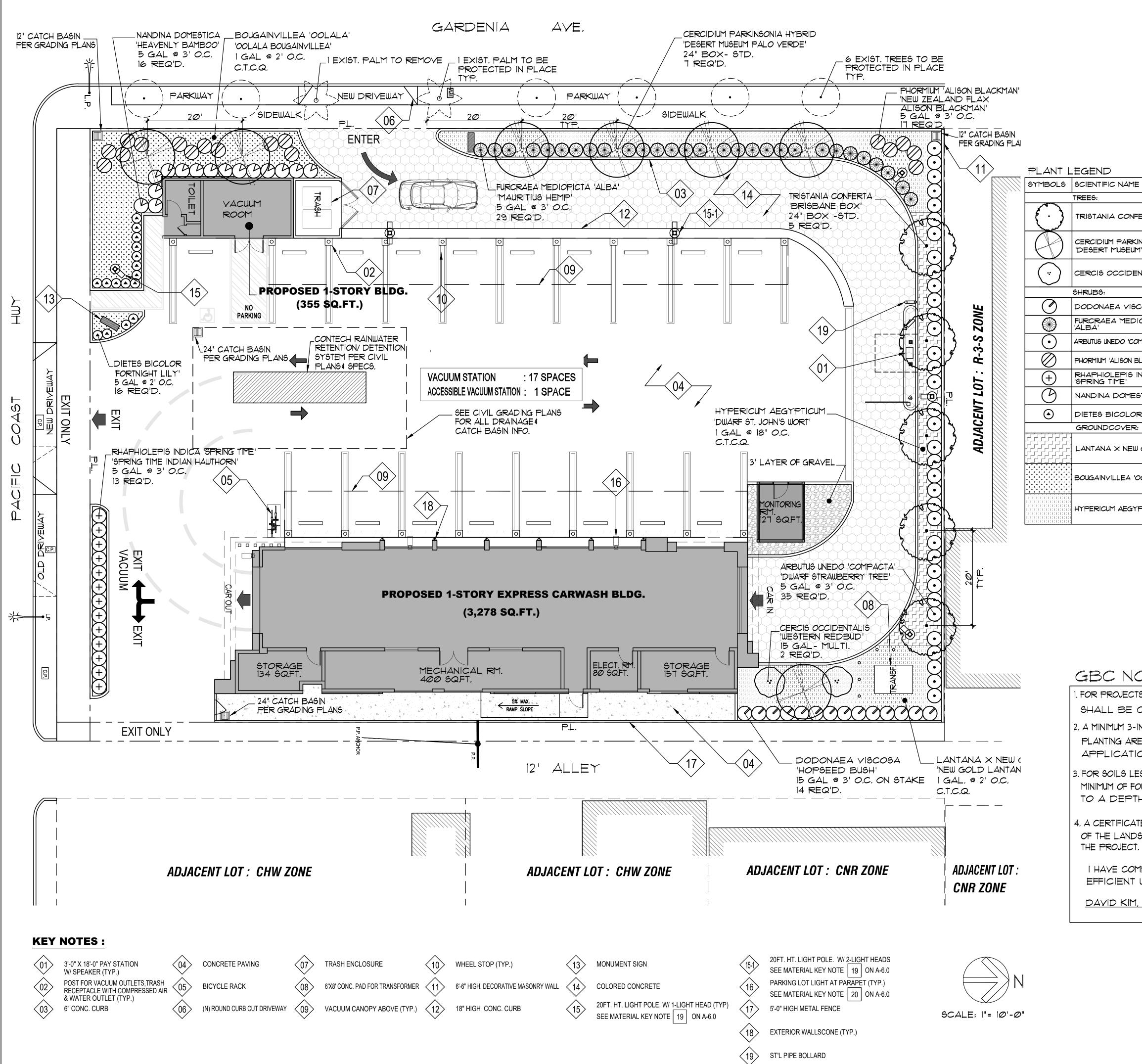


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JULY 07, 2021

CONTECH DETENTION SYSTEM MANUFACTURE SPECIFICATION C-5





3000 WEST 6TH STREET SUITE300 LOS ANGELES, CALIFORNIA 90010 (213)382-311 (213)382-2669 email dsklandarch@yahoo.com

: 7/9/21

: 1"=10'-0"

BOLS	SCIENTIFIC NAME	COMMON NAME	QUANTITIES	SIZE AT TIME	WATER CONSUMPTION	COMMENTS	email dskland
	TREES:			OF PLANTING		·	
	TRISTANIA CONFERTA	'BRISBANE BOX'	5 REQ'D.	24" BOX- STD. (10-12' x 4-5')	MEDIUM	EVERGREEN TREE	
	CERCIDIUM PARKINSONIA 'DESERT MUSEUM'	'DESERT MUSEUM PALO VERDE'	TREQ'D.	24" BOX- STD. (9-11' × 3-4')	LOW	DECIDUOUS TREE	 Date
	CERCIS OCCIDENTALIS	'WESTERN REDBUD'	2 REQ'D.	15 GAL - MULTI.	LOW	DECIDUOUS TREE OR SHRUB	Scale Drawn By
	SHRUBS:						Check 1
9	DODONAEA VISCOSA	'HOPSEED BUSH'	14 REQ'D.	15 GAL @ 3' O.C. ON STAKE	LOW	EVERGREEN SHRUB	Check 2
	FURCRAEA MEDIOPICTA 'ALBA'	'MAURITIUS HEMP'	29 REQ'D.	5 GAL @ 3' O.C.	LOW	SUCCULENT	File
•)	ARBUTUS UNEDO 'COMPACTA'	'DWARF STRAWBERRY TREE'	35 REQ'D.	5 GAL @ 3' O.C.	LOW	EVERGREEN SHRUB	Date Issued
9	PHORMIUM 'ALISON BLACKMAN'	'NEW ZEALAND FLAX ALISON BLACKMAN'	17 REQ'D.	5 GAL @ 3' O.C.	LOW	PERENNIAL	Revisions
Ð	RHAPHIOLEPIS INDICA 'SPRING TIME'	'SPRING TIME INDIAN HAWTHORN'	13 REQ'D.	5 GAL @ 3' O.C.	LOW	EVERGREEN SHRUB	
9	NANDINA DOMESTICA	'HEAVENLY BAMBOO'	16 REQ'D.	5 GAL @ 3' O.C.	LOW	EVERGREEN SHRUB	
9	DIETES BICOLOR	'FORTNIGHT LILY'	16 REQ'D.	5 GAL @ 2' O.C.	LOW	PERENNIAL	
	GROUNDCOYER:						
	LANTANA X NEW GOLD	'NEW GOLD LANTANA'	C.T.C.Q.	1 GAL. @ 2' O.C.	LOW	EVERGREEN SHRUB	 Project
· · · · · · · · · · · · · · · · · · ·	BOUGAINVILLEA 'OOLALA'	'OOLALA BOUGAINVILLEA'	C.T.C.Q.	1 GAL @ 18" O.C.	LOW	EVERGREEN SHRUB	1 10,000
	HYPERICUM AEGYPTICUM	'DWARF ST. JOHN'S WORT'	C.T.C.Q.	1 GAL @ 18" O.C.	LOW	EVERGREEN SHRUB	

STAR EXPRESS **CAR WASH**

1911 E. PACIFIC COAST HWY. LONG BEACH, CA 90806

GBC NOTE:

- 1. FOR PROJECTS THAT INCLUDE LANDSCAPE WORK, THE LANDSCAPE CERTIFICATION, FORM GRN 12, SHALL BE COMPLETED PRIOR TO FINAL INSPECTION APPROVAL.
- 2. A MINIMUM 3-INCH LAYER OF MULCH SHALL BE APPLIED ON ALL EXPOSED SOIL SURFACES OF PLANTING AREAS EXCEPT TURF AREAS, CREEPING OR ROOTING GROUNDCOVERS OR SEEDING APPLICATIONS WHERE MULCH IS CONTRAINDICATED.
- 3. FOR SOILS LESS THAN 6% ORGANIC MATTER IN THE 6 INCHES OF SOIL, COMPOST AT A RATE OF MINIMUM OF FOUR CUBIC YARDS PER 1,000 S.F. OF PERMEABLE AREA SHALL BE INCORPORATED TO A DEPTH OF SIX INCHES INTO THE SOIL.
- 4. A CERTIFICATE OF COMPLETION SHALL BE FILLED OUT AND CERTIFIED BY EITHER THE DESIGNER OF THE LANDSCAPE PLANS, IRRIGATION PLANS, OR LICENSED LANDSCAPE CONTRACTOR FOR THE PROJECT.
- I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE EFFICIENT USE OF WATER IN THE LANDSCAPE DESIGN PLANS.

PLANTING PLAN

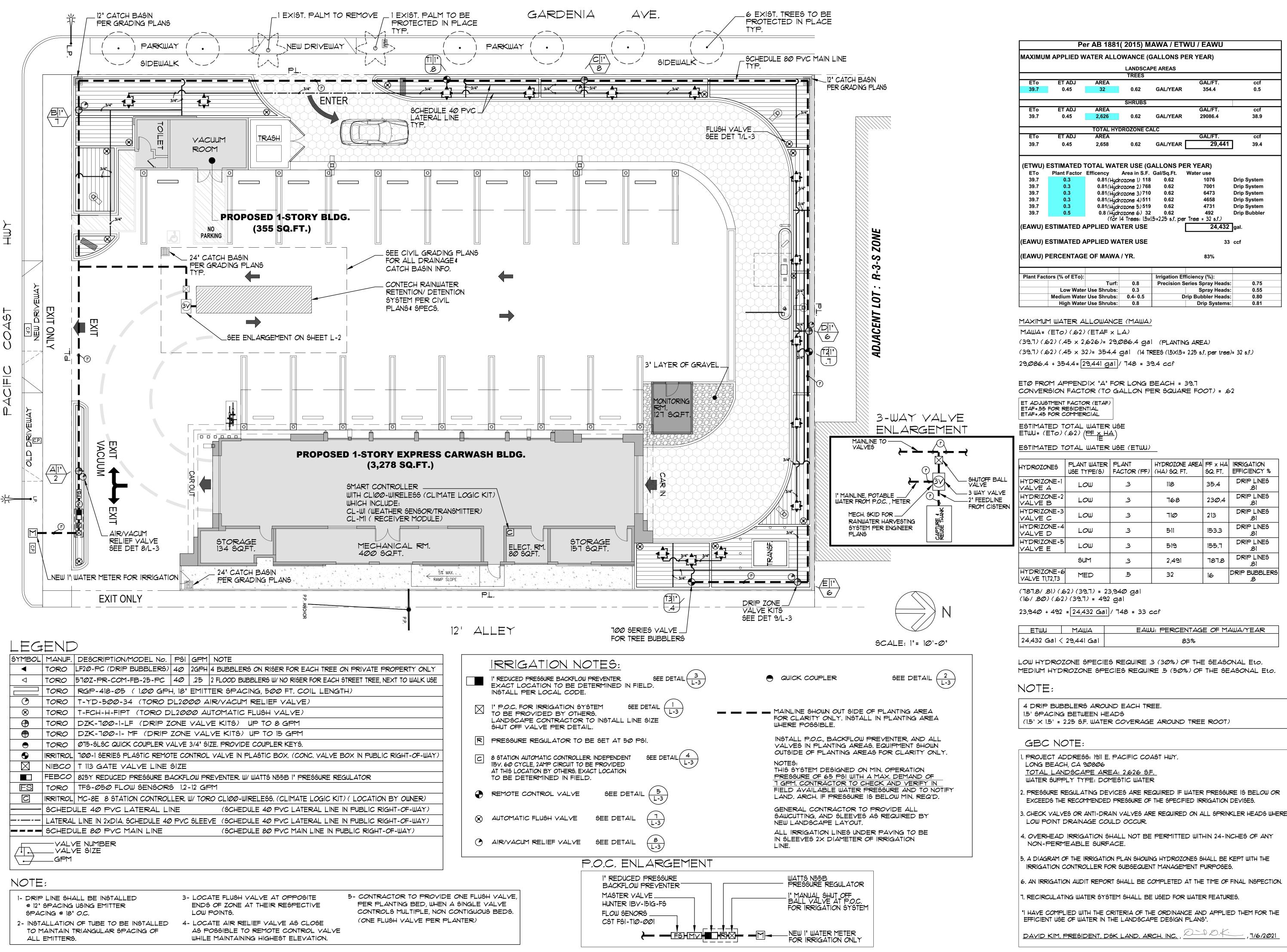
Sheet Title



Job Number

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Sheet No. 1 of 3



3000 WEST 6TH STREET SUITE300 LOS ANGELES, CALIFORNIA 90010 PHONE (213)382-31 FAX (213)382-2669 dsklandarch@yahoo.com

: 7/9/21 Date : 1"=10'-0" Scale Drawn By Check 1 Check 2 File Date Issued Revisions :

Project

STAR EXPRESS **CAR WASH**

1911 E. PACIFIC COAST HWY LONG BEACH, CA 90806

IRRIGATION PLAN

D. Kim

9/30/22 Date

LOW HYDROZONE SPECIES REQUIRE .3 (30%) OF THE SEASONAL Eto.

- EXCEEDS THE RECOMMENDED PRESSURE OF THE SPECIFIED IRRIGATION DEVISES.
- 4. OVERHEAD IRRIGATION SHALL NOT BE PERMITTED WITHIN 24-INCHES OF ANY

- 6. AN IRRIGATION AUDIT REPORT SHALL BE COMPLETED AT THE TIME OF FINAL INSPECTION.

"I HAVE COMPLIED WITH THE CRITERIA OF THE ORDINANCE AND APPLIED THEM FOR THE

Job Number

Sheet Title

Sheet No. 2 of 3

<u>IRRIGATION NOTES</u>

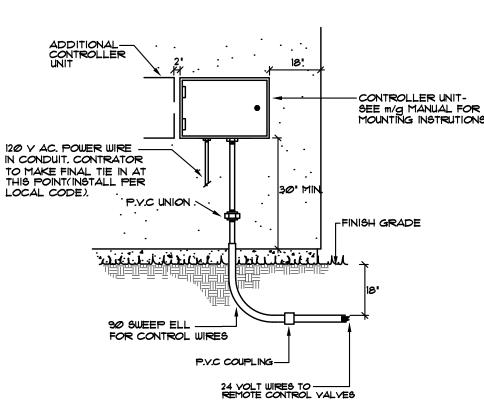
- All workmanship and materials shall conform to local building and plumbing codes having jurisdiction.
- Prior to submitting bid, examine the site and conditions thereof
- The work to be performed under this contract shall include furnishing all labor, materials, tools, machinery, and equipment necessary to install a complete sprinkler system as shown on the irrigation plans, including trenching, backfilling, etc.
- Protect this work and Owner's property from damage as a result of this
- prior to commencing work on the project, arrange an on-site conference with the Landscape Architect, or his duly appointed representative.
- 6. Apply and pay for all permits required for this portion of the work
- The installation and the operation of the system must be approved by the Landscape Architect.
- If it is found during installtion that the site varies from the drawings, notify the Landscape Architect before proceeding with the work

3. Coordinate the installation of all sprinkler materials, including pipe,

- with the landscape drawings to avoid interfering with the planting of trees, shrubs or other planting.
- 10. It is the intent of these drawings and specifications to indicate a complete sprinkler system installed and ready for use without further cost
- Record accurately on one set of reproducible prints of the drawings, an as-built plan kept up to date as the project is under construction. In addition, dimension from two permanent points of reference, the location of the pressure supply line routing, all valves, plug tees and control
- 12. All sprinkler heads and piping shall be installed per their details in their respective locations, and shall be of the manufacturer noted unless
- 13. The sprinkler system shall be unconditionally quaranteed for a period of one year from the date of acceptance. Manufacturer warranties of one year from the date of acceptance. Manufacturer warranties shall not replace this guarantee and the Contractor shall be responsible for repairs and replacement of failed material.
- 4. Upon completion of the work, remove all excess material, equipment and waste to the satisfaction of the Landscape Architect.
- 5. The sprinkler installation shall be deemed incomplete until all sprinkler heads, valves, and all related irrigation equipment have been checked and adjusted to best conform to the conditions and requirements that will prevail at the finish site, and approved as-built drawings have been
- 6. Trenches shall be excavated to sufficient depth to provide coverage of 24" over all pressure supply lines and 12" over all non-pressure lines.
- I. Backfill for trenching shall be compacted to a dry density equal to the adjacent undisturbed soil, and shall conform to adjacent grades without dips, sunken areas, humps, or other irregularities.
- 8. Plastic fittings shall be of Schedule 40 polyvinyl chloride injection molded and side gated. Where threads are required, these shall be injection
- 19. Initial backfill on plastic lines shall be of a fine granular material, a min. of 3' above and below line with no foreign matter larger than 1/2" in size.
- 20. All material required for the project shall be as indicated on legend and installed according to same.
- 21. Supply as part of this contract the following tools: (a) One wrench for disassembling each type of sprinkler head supplied: (b) Four 30" sprinkler keys for operation of sprinkler keys for operation of sprinkler control
- 22. All valves are installed below grade in a valve box identified by the controller and station designation, heat branded with 2' letters. One valve per valve box.
- 23. All pop-up heads located within 12" of hardscape areas to be set min 1/2" below finish surface of hardscape.
- 24. All riser/lateral connections to be triple swing joints.
- 25. All risers for hose bibs to be 12" above finished grade.
- 26. All control valve boxes to be located @ right angle to hardscape ares.
- 27. Where heads on slope occur, all heads shall be placed parallel to the angle
- 28. All wire shall be a minimum #14 AWG 600-VOLT Direct burial and UL listed.

NOTE

ALL TREES TO HAVE ROOT BARRIER UB-24 BY DEEP ROOT SEE DETAILS 12 THIS SHEET.



(4) AUTOMATIC CONTROLLER(WALL-MOUNT)

SECTION/ELEVATION

PRODUCTS
P.O. BOX 145
CAMBELL, CA.
95009
(408) 319-2358

(I) WIRE CONNECTIONS

(1) BUILDING, PAVEMENT FENCE OR PLANTING EDGE

2 GROUND COVER OR SHRUB

3 TYPICAL SPACING

(15) GROUND COVER PLANTING

(8) 1/2" AIR/VACUUM RELIEF VALVE TORO DL2000

1. CLEAN AND STRIP WIRES. CONNECT WIRES W/A 'SCOTCH-LOC' OR

CLEAN AND DRY TO ENABLE SLEEVE TO PROPERLY SEAL.

EQUAL ELECTRICAL WIRE, CONNECTOR WIRES ARE TO REMAIN

3. SHRINK THE SLEEVE W/A TORCH AT A LOW FLAME. SWEEP SLOWLY

POSITION SLEEVE TO APPROX. 1/4" OVER WIRE CONNECTOR (FIG. 2).

PUSH CLIP OVER SLEEVE END AT EACH PAIR OF WIRES AS SHOWN.

BACK AND FOURTH AROUND SLEEVE UNTIL ADHESIVE FLOWS AND SEALS AROUND WIRES AT EACH CLIP. HOLD TORCH 4-6 INCHES

FROM SLEEVE. DO NOT TOUCH FLAME TO SLEEVES OR WIRES. AVOID SCORCHING. ALLOW TO COOL FOR APPROX. TWO MINUTES.

(1) FINISHED GRADE

3 TORO DL2000 AIR/VACUUM RELIEF VALVE (YD-500-34)

TORO DL2000 COMPRESSION ADAPTER (CATIO) (TYP.)

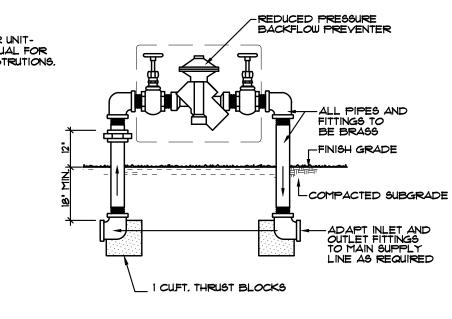
PEA GRAVEL SUMP (6")

. AIR/VACUUM RELIEF VALVE CANNOT BE CONNECTED LOWER THAN DRIPLINE LATERALS.

(PLUMBED TO TUBING)

(4) 1/2" PVC TEE (5x5xT)

BRICK SUPPORTS



SECTION/ELEVATION

CLEAN BACKFILL

, 1 1/2" TIMES

WIDTH OF

ROOTBALL

(14) SHRUB PLANTING DETAIL

1) AUTOMATIC FLUSH VALVA TORO DL2000

-FINISH GRADE

CONTROL WIRE

JATERING BASIN

-FINISH GRADE

-SITE SOIL

FERTILIZER TABLETS, SEE SPECS

KEEP TOP OF ROOTBALL & TOP OF FINISH GRADE AT SAME LEVEL.

,4.1.4.4.1.4.

NOTES:

-MAIN LINE - SLEEVE - CONDUIT

1. ALL PLASTIC PIPING TO BE SNAKED IN TRENCHES.

B. TIE A LOOSE 20' LOOP IN

2. BUNDLE & TAPE WIRING

WIRING AT CHANGE OF

PRECTION GREATER

THAN 30 . UNTIE ALL

BEEN MADE. 4. SEE IRRIGATION SPECIF

CATIONS FOR BACKFILL AND COMPACTION

LOOPS AFTER ALL CONNECTIONS HAVE

REQUIREMENTS.

AT 10' INTERVALS

1) FINISHED GRADE

3 TORO DL2000 AUTOMATIC FLUSH VALVE (FCH-H-FIPT

4) TORO DL2000 3/4" MALE ADAPTER (DL-15MA-9153)

(a) TORO DL2000 COMPRESSION ADAPTER (CATIO)

PEA GRAVEL SUMP (18")

. USE ONE FOR EACH INCREMENT OF 1 GPM.

2. FLUSH RATE = 0.8 GPM

(PLUMBED TO PVC TEE)

3. SEALING PRESSURE = 2 PSI

(5) 1/2' 5CH 80 RISER

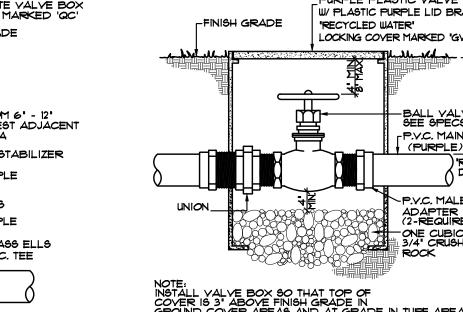
(1) PVC PIPE

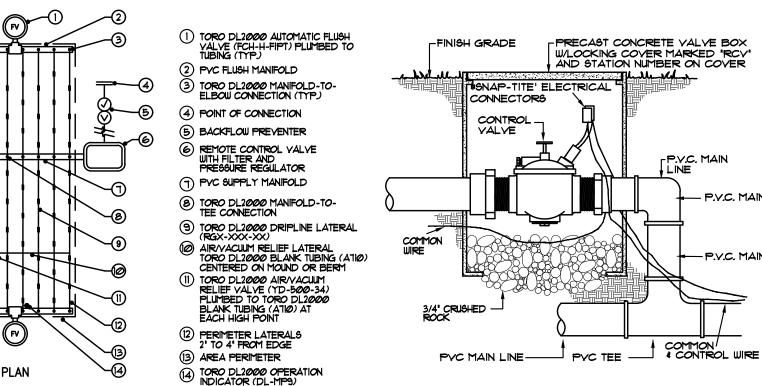
B) PYC ELBOW

BRICK SUPPORTS

2 6' ROUND VALVE BOX

-PRECAST CONCRETE VALVE BOX W/LOCKING COVER MARKED 'QC' -FINISH GRADE INSTALL FROM 6' - 12' FROM NEAREST ADJACENT PAYED AREA CONCRETE STABILIZER BRASS NIPPLE LP.Y.C. MAIN LINE

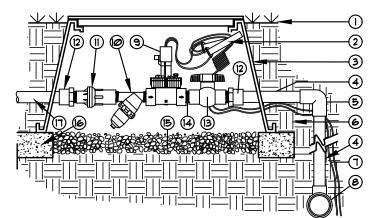




5 REMOTE CONTROL VALVE

DBY OR EQUAL.

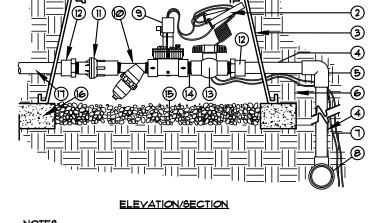
CHARACTERS.



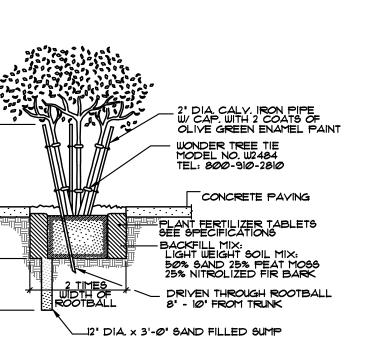
2. INSTALLATION TO BE COMPLETED IN ACCORDANCE WITH MANUFACTURER'S SPECIFICATIONS. 3. ALL INFORMATION CONTAINED HEREIN WAS CURRENT AT THE TIME OF DEVELOPMENT BUT MUST BE REVIEWED AND APPROVED BY THE PRODUCT MANUFACTURER TO BE CONSIDERED ACCURATE.

MIN, FLOW RATE - 025 GPM, MAX, FLOW RATE - 80 GPM DZK-700-1-LF: MIN. FLOW RATE - 20 GPM, MAX. FLOW RATE - 200 GPM

(9) TORO DRIP ZONE KIT(DZK-700-1-LF/DZK-700-1-MF)



1. LOCATE STAPLES ALONG TUBING AT 4' - 6' ON CENTER AND AT ALL FITTINGS (TEES, ELLS, ETC.).

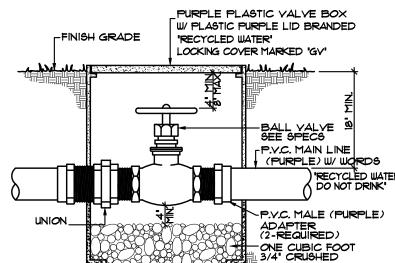


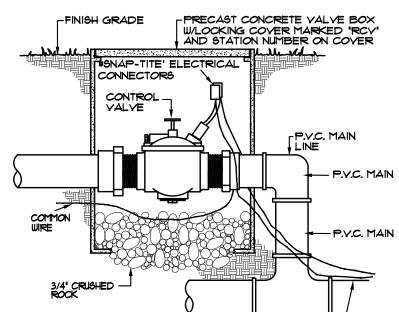
(13) WOOD STAKE FOR MULTI-TRUNK TREE

NOTE: PLANTING PITS SHALL BE EXCAVATED NO DEEPER, OR SLIGHTLY SHALLOWER, THAT THE DEPTH OF THE ROOT BALL (PLANTING 'HIGH' OR 'PROUD') IN ORDER TO AVOID THE PLANT SETTLING WITH THE CROWN BELOW THE SOIL SURFACE, LEADING TO CROWN ROT AND OTHER DISEASES

(12) DOUBLE STAKE DETAIL

PLANTING PIT DEPTH OF ROOTBALL





(2) CONTROL WIRES WITH 36' SERVICE COIL

AND WATER PROOF WIRE CONNECTIONS

3 RECTANGULAR PLASTIC VALVE BOX. HEAT

(4) PVC MAINLINE PER SPECIFICATIONS

(6) NATIVE SOIL PER SPECIFICATIONS

(7) CONTROL WIRES TO CONTROLLER

(9) LF: TORO TPVFIØØ INLINE VALVE (*). MF: TORO 100-1 INLINE VALVE (*).

(II) TORO 25 PSI LOW FLOW PRESSURE

(Ø) TORO 150 MESH Y-FILTER (*).

(12) SCH 40 PVC MALE ADAPTER

(3) SCH 40 PVC BALL VALVE (*).

(4) SCH 80 PYC CLOSE NIPPLE (+).

(T) LATERAL LINE TO DRIP SYSTEM.

(B) PEA GRAVEL SUMP, MINIMUM 6' DEEP.

(6) BRICK SUPPORTS (4 COMMON BRICKS

WONDER TREE TIE MODEL NO. W2484 TEL: 800-910-2810

WATERING BASIN FINISH GRADE

SITE SOIL

FERTILIZER TABLETS, SEE SPECS

BACKFILL MIX: LIGHT WEIGHT SOIL MIX: 50% SAND 25% PEAT MOSS 25% NITROLIZED FIR BARK

(LENGTH AS REQUIRED).

5 SCH 40 PVC ELL (5x5).

® PVC MAINLINE FITTING.

REGULATOR (*)

BRAND STATION NUMBER ON LID IN 2' HIGH

A. The Landscape Contractor is to remove all weeds and/or grasses (including the roots) existing in the landscape areas.

Contractor for that Contractor's repair or that

Contractor's payment for the repair.

B. All landscape areas are to receive the pre-emergent herbicide Surflan 75W per manufacturer's instructions.

SOIL CONDITIONING AND GRADING

<u>LANDSCAPE PLANTING NOTES</u>

in these specifications.

representative.

A. The Landscape Contractor shall furnish all labor,

equipment, materials and services for the complete

have prior written approval by the Owner or his

E. During the course of the contract (including

insurance. The minimum amount of public liability

maintenance period), the Landscape Contractor shall

The minimum amount of property damage insurance be

\$500,000.00 for any single property damage claim.

by him or make payment for such repair. Should the

all losses to his materials and equipment.

installation as described by the landscape drawings and

C. All materials and workmanship shall be of highest quality.

D. Until all working is complete and accepted by Owner,

the Landscape Contractor shall assume all risks and bear

provide and maintain public liability and property damage

insurance shall be \$1,000,000.00 for each person injured.

F. The Landscape Contractor shall repair work damaged

Landscape Contractor have his work damaged by another Contractor, he is to make arrangements with the other

B. Any deviation from the plan or specifications is to

A. Landscape Contractor shall familiarize himself with the site to determine scope of fine grading. Rough grading shall be by General Contractor. Finish grading shall consist of raking all areas to a smooth grade for positive drainage, loosening the soil to a depth of 6", removing all rocks and breaking up clods of 2" diameter or larger, and removal of deleterious material. Finish grade is to be 2" below top of adjacent curb and sidewalk

B. The following soil amendments and quantities are given for bid purposes only. Final amendments and quantities shall be determined by soil analysis. All landscape areas are to receive an even application of 6 cubic yards of nitrogen mineralized, stabilized wood sawdust, 30 pounds of 6N-20P-20K fertilizer, 10 lbs. of soil sulfur for each 1,000 square feet. The above amendments are to be incorporated uniformly into the top 6' of soil.

4. <u>PLANTING</u>

A. All plants are to have a planting pit 1-1/2 times the diameter of the rootball and equal to its depth. The plant pit is to be backfilled (after positioning of plant) with a mixture of 2/3 site soil and 1/3 nitrolized-mineralized wood sawdust. Provide a shallow watering basin for each plant.

B. Groundcovers are to be planted so that after setting, the crown of the plant is even with finish grade, roots fully covered with soil and firmed.

C. Watering of plants is to take place immediately after

D. All planting areas not planted with turf, are to receive a 2" layer of mulch to be approved.

E. Guying and staking of trees is to be per details.

5. <u>CLEAN UP</u>

At the completion of all planting operations, the premises are to be left neat and clean. All surplus materials, nursery tags and waste are to be removed from the site.

6. MAINTENANCE

A. The Landscape Contractor is to maintain all landscape areas for a period of three months from the date of completion, established by the Owner or his representative. All areas are to be kept well watered, free of weeds. grasses and trash during this maintenance period.

B. An application of fertilizer (16% nitrogen, 6% phosphoric acid, 8% potash) is to be made just prior to the completion of the maintenance period, or at 30 day intervals if maintenance period is greater than 30 days.

C. The sprinkler system is to be checked for coverage at each watering immediatly following installation. Malfunctions, such as dirty heads, adjustment of heads, etc., are to be corrected on the spot. More serious defects are to be reported immediately to the Owner for correction by the Sprinkler Contractor, or corrected immediately by the Landscape Contractor if contract included skrinkler installation. Sprinkler system to be operational before installation of any plantings, or Landscape Contractor is responsible for the watering of plants.

Palm trees must planted prior to installation of concrete to preclude damage to concrete.

<u>GUARANTEE</u>

All trees, shrubs and plant material (other than flatted material) less than 15 gallon size shall be guaranteed for a period of 6 months. All material larger than 15 gallon size shall be guaranteed for a period of I year.



3*000* WEST 6TH STREET SUITE3*00* LOS ANGELES, CALIFORNIA 90010 PHONE (213*)*382-31 (213)382-2669 dsklandarch@yahoo.com

Date	: 7/9/21
Scale	: N.T.S.
Drawn By	:
Check 1	:
Check 2	:
File	:
Date Issued	:
Revisions	:

Project

STAR EXPRESS **CAR WASH**

911 E. PACIFIC COAST HWY. LONG BEACH, CA 90806

IRRIGATION & PLANTING DETAILS

Sheet Title



Job Number

Sheet No. 3 of 3

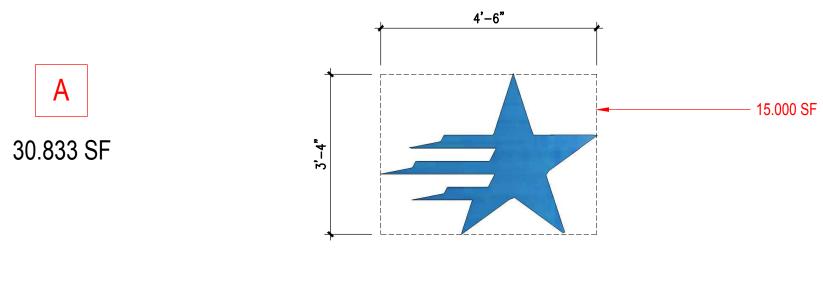
-THE IRRIGATION SYSTEM MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATION.

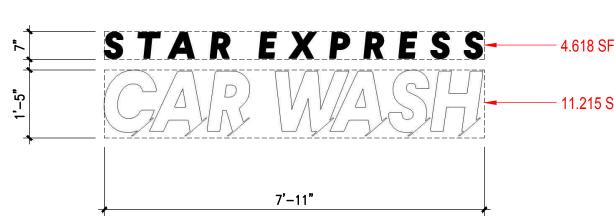
THE IRRIGATION DESIGNER OR LANDSCAPE ARCHITECT OR LANDSCAPE DESIGNER SHALL PERFORM ONE OR MORE SITE OBSERVATIONS DURING SYSTEM INSTALLATION TO CHECK FOR ADHERENCE TO THE DESIGN, INCLUDING THE PROPER INSTALLATION OF THE BACKFLOW PREVENTION ASSEMBLY, MAIN LINE, LATERALS, YALVES, SPRINKLER HEADS, DRIP IRRIGATION EQUIPMENT, CONTROL WIRE, CONTROLLERS, AND SENSORS AND SHOULD ASSURE THAT THE INTENT OF THE IRRIGATION DESIGN HAS BEEN PRESERVED.

-FOR OPEN-TRENCH AND FINAL INSPECTIONS, CALL BUILDING AND SAFETY.

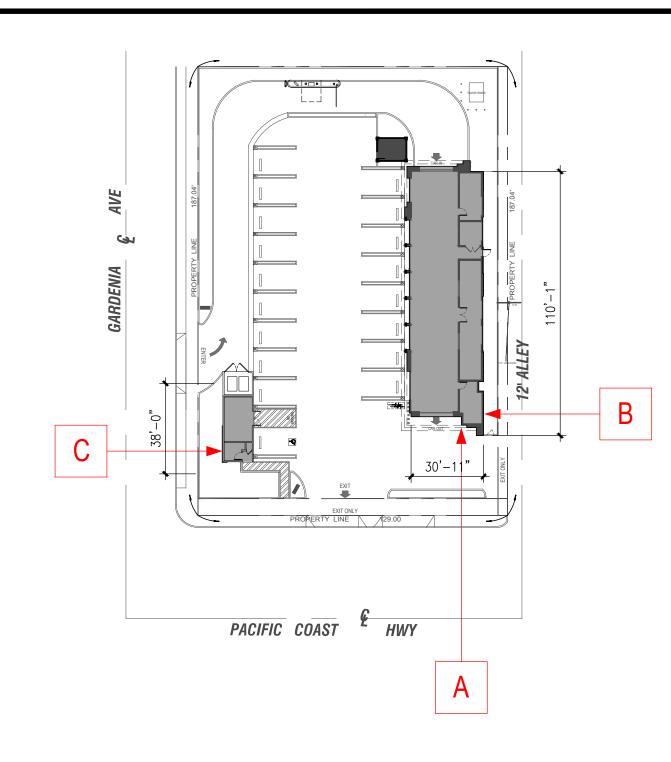
FRIOR TO CONSTRUCTION OF LANDSCAPED AREA OR IRRIGATION, THE CONTRACTOR MUST OPTAIN AND REVIEW A COPY OF THE WATER-EFFICIENT LANDSCAPE AND IRRIGATION STANDARD ALL LANDSCAPING AND IRRIGATION SYSTEMS MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS,

ILLUMINATED INDIVIDUAL CHANNEL WALL SIGNS

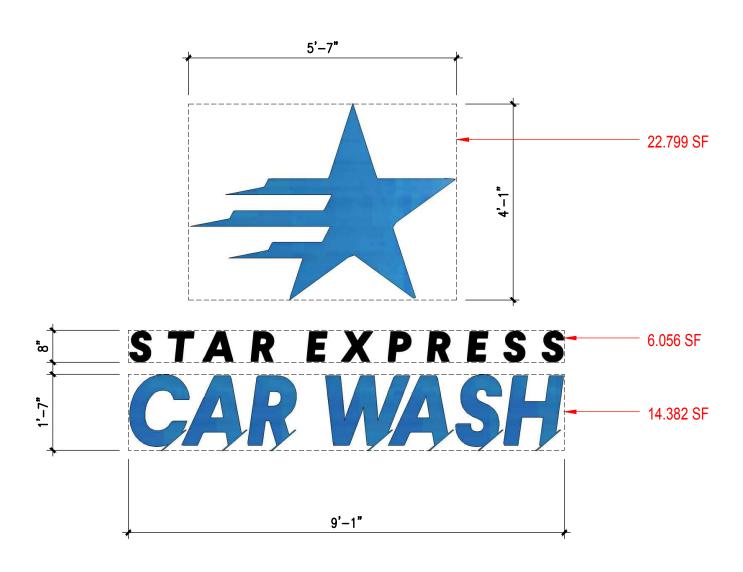


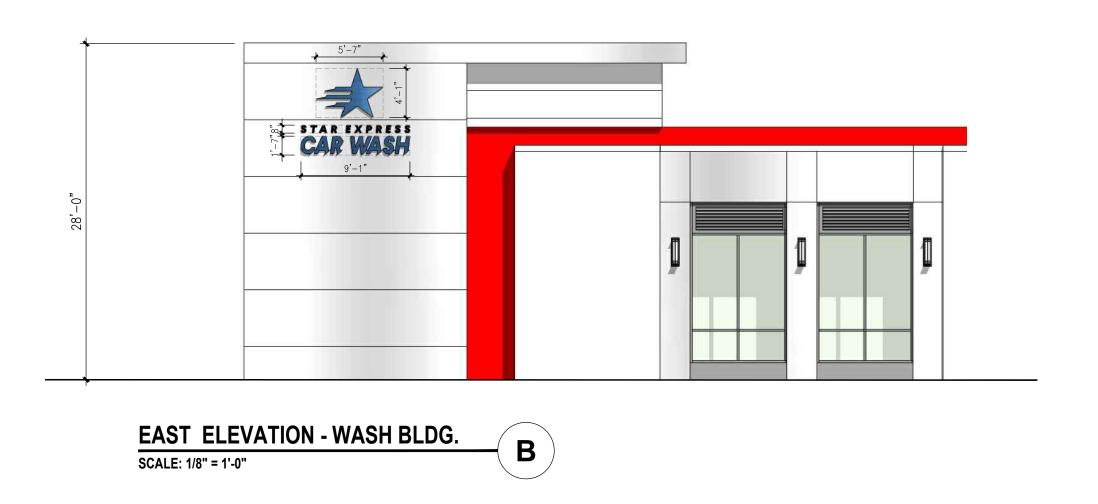


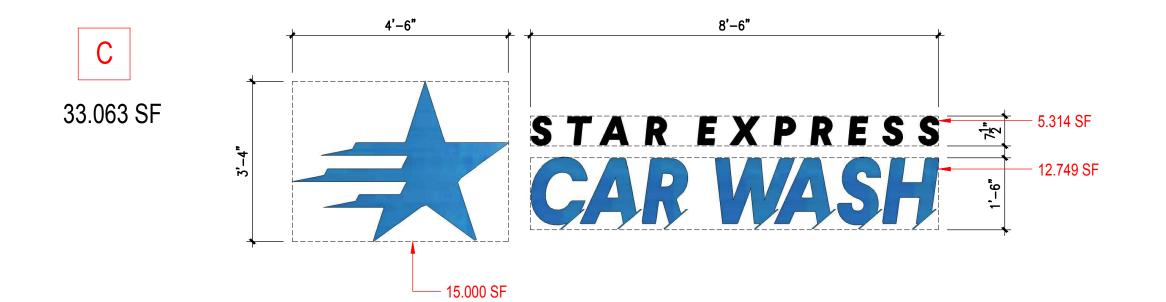














EXPRESS CAR WASH
1911 E. PACIFIC COAST HWY.
LONG BEACH, CA 90806

WASH DEVELOPMENT FOR

EXPRESS CAR

 $G \cdot R \cdot O \cdot U \cdot P$

 $A \cdot R \cdot C \cdot H$

GROUPARCH. DEVELOPMENT, INC.

ARCHITECTURE, PLANNING, INTERIORS, CONSULTANTS

3850 WILSHIRE BLVD. SUITE 208 LOS ANGELES, CA 90010 TEL : 213 - 383 - 2088 FAX : 213 - 387 - 3867 E-mail : GAinfo @grouparch.net

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LE SIGN PLAN --

NO DATE

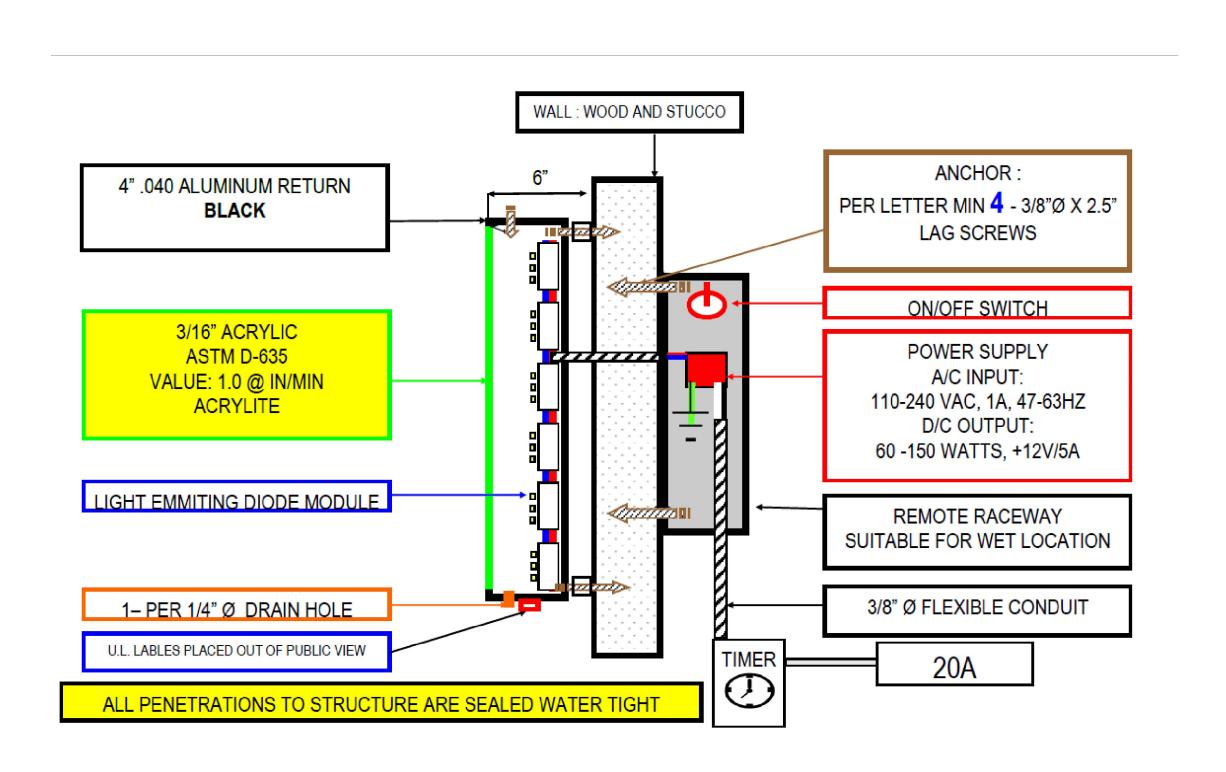
PRINT DATE 7/25/2021

SCALE

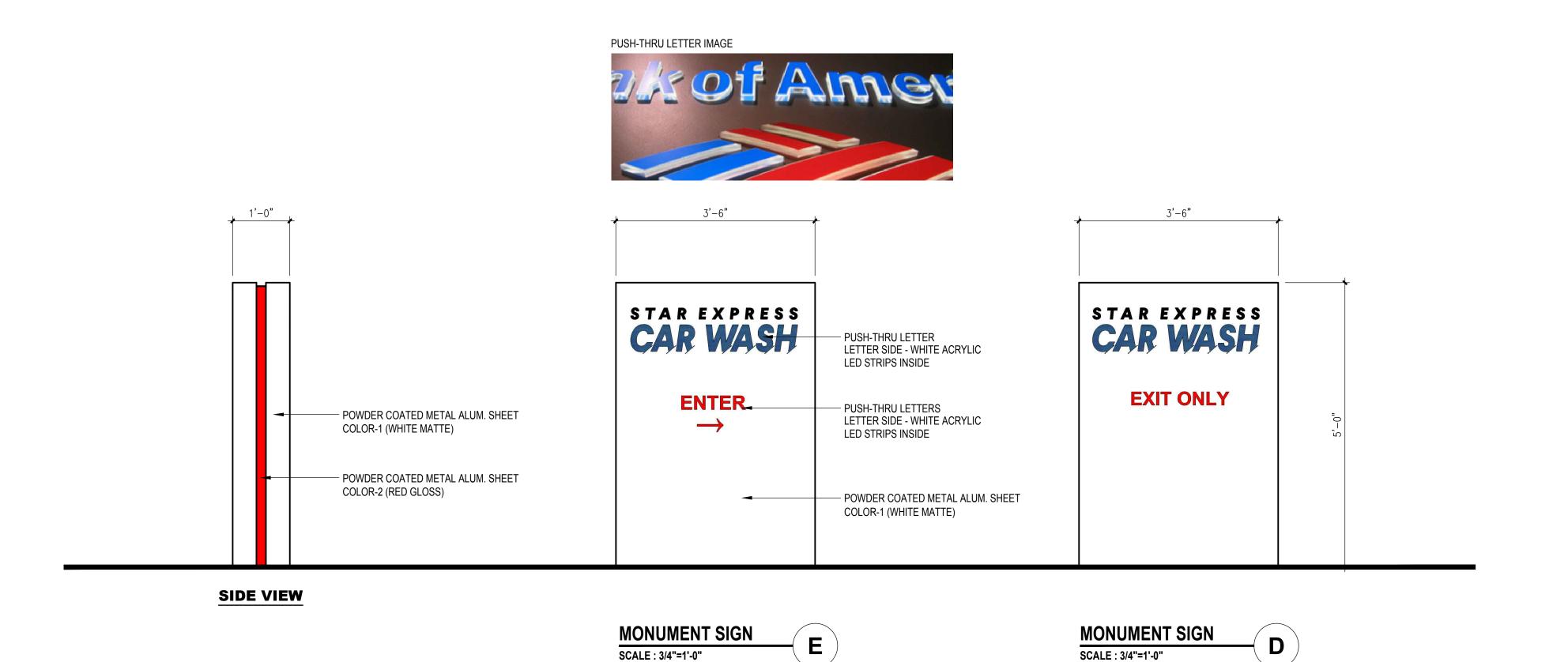
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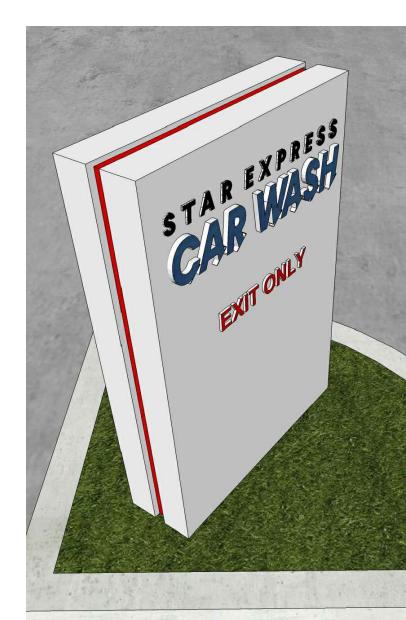
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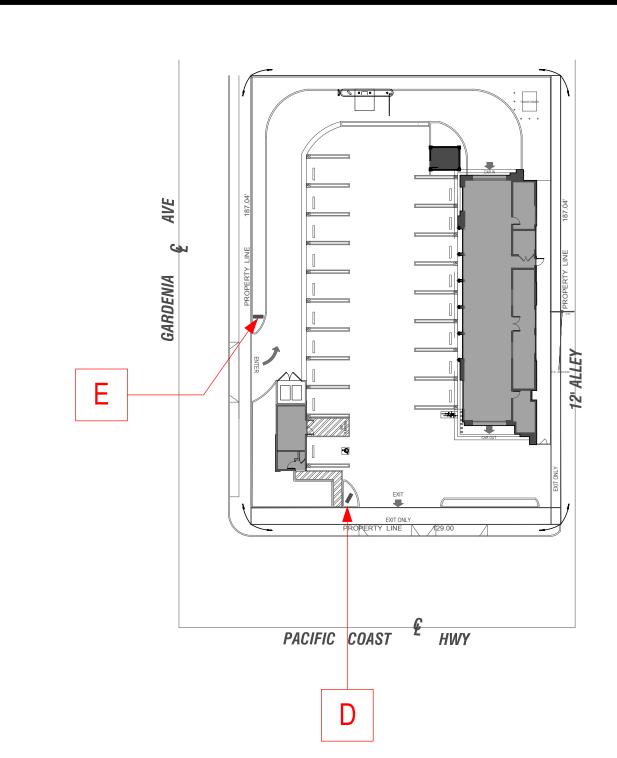
SN-1



ILLUMINATED INDIVIDUAL CHANNEL WALL SIGN INSTALLATION & SPEC.







R WASH

 $G \cdot R \cdot O \cdot U \cdot P$

 $A \cdot R \cdot C \cdot H$

GROUPARCH. DEVELOPMENT, INC.

ARCHITECTURE, PLANNING, INTERIORS, CONSULTANTS

LOS ANGELES, CA 90010
TEL : 213 - 383 - 2088
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LONG BEACH, CA 90806

WASH DEVELOPMENT

EXPRESS CAR

TITLE
SIGN PLAN
-

NO DATE

PRINT DATE 7/25/2021

SCALE

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CHECKED BY

SN-2