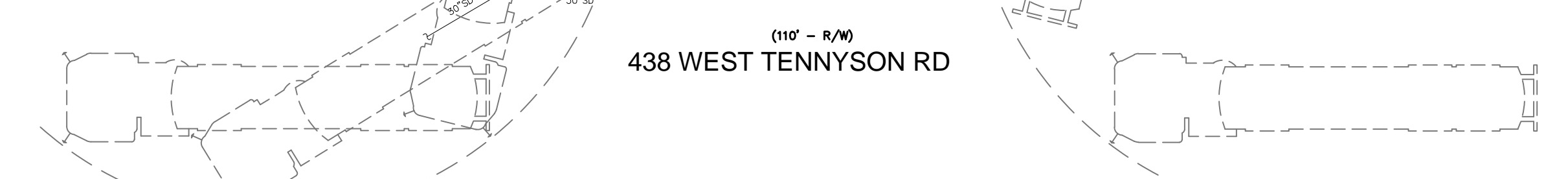


THIS PERMIT APPLICATION IS FOR AN (E) GAS STATION EXPANSION, REFURBISHMENT AND UPGRADE UNDER CONDITIONAL USE PERMIT PROJECT AS FOLLOWS WHICH INCLUDE:

- EXISTING (3) FUEL STATIONS ALONG W/ (E) UNDERGROUND OIL STORAGE TANK REMAIN INTACT UNDER THE SAME (E) METAL ROOF CANOPY.
 - DEMOLISH (E) ONE STORY MINI-MARKET (±1,000 SF)
 - DEMOLISH (E) LOW CONCRETE BARRIER BLOCK
 - (N) MODERN STYLISH 2-STORY MINI-MARKET=3,062 SF, INCLUDING 2,074 SF RETAIL, MEN AND WOMEN ACCESSIBLE RESTROOMS AT GROUND, 988 SF OFFICE ON 2ND FLOOR.
 - (E) UNDERGROUND GASOLINE STORAGE TANK TO REMAIN W/ MONITOR SYSTEM TO BE REROUTED AND UPGRADED
 - (E) PLANTS, CURB, LIGHT POLE AND ABANDONED PUBLIC PHONE TO BE RELOCATED OR DEMOLISHED
 - (E) STREET CURB STORM CATCH BASIN
 - (E) STREET FIRE HYDRANT
 - (E) STREET PG&E POLE
- PROVIDE ONE (N) CAR WASHING BY SHELL W/ AUTOMATIC WASHING EQUIPMENT INSIDE AND DIGITAL CONTROL CONSOLE OUTSIDE.
 - (N) CONTROL ROOM 363 SF
 - RELOCATED (E) MONUMENT SIGN W/ SEPARATE PERMIT APPLICATION
 - (N) TIRE PRESSURE STATION
 - (N) VACUUM PRESSURE BOOSTER
 - (N) CAR WASH UNDERGROUND RECYCLE WATER TANK
 - (N) CAR WASH CUSTOMER/ CONSOLE TICKET SERVICE STAND
- PROVIDE 9 (N) VACUUM STATIONS OF SELF HELP AND SERVED FOR 24 HR A DAY, ONE IS FOR ACCESSIBLE ELECTRICAL VEHICLE STATION
 - (N) CONTROL ROOM 363 SF
 - RELOCATED (E) MONUMENT SIGN W/ SEPARATE PERMIT APPLICATION
 - (N) TIRE PRESSURE STATION
 - (N) VACUUM PRESSURE BOOSTER
 - (N) CAR WASH UNDERGROUND RECYCLE WATER TANK
 - (N) CAR WASH CUSTOMER/ CONSOLE TICKET SERVICE STAND
- PROVIDE (N) DUMPSTER 20'x10'x10'H ENCLOSURE FOR GARBAGE AND RECYCLED PURPOSE AT BACK YARD
- PROVIDE (N) 2 PARKING STALLS FOR MINI-MARKET CLIENTS, ONE SPACE IS FOR AIR/ WATER SUPPLY AS SHOWN
- (E) PG&E MAIN SUPPLY LINES ARE REROUTED AND UNDERGROUND TO (N) MINI-MARKET
- (E) 3 FUEL STATIONS W/ (E) METAL COVER SHADE AND STRUCTURE COLUMNS TO REMAIN INTACT W/ (N) 42" H STEEL GUARD POSTS (4) AROUND EACH PUMP. 8a (E) GASOLINE AND DIESEL UNDERGROUND TANKS TO REMAIN INTACT
 - (N) RELOCATED PROPANE CAGE RACK
 - (E) CLEAN AIR SEPARATOR TANK TO BE RELOCATED
 - (N) AC COMPRESSOR
- (N) WOOD TRELLIS W/ IVY ON TOP
- (E) WATER MAIN AND SEWER LINES TO BE UPGRADED AND REROUTED TO SERVE (N) USES
- (N) 8' HT METAL OPEN CAST IRON FENCE ON CONCRETE RETAINING CURB ALONG REAR YARD
- (N) TREES AND PLANTS PER LANDSCAPE PLAN
 - BIO RETENTION
- (N) DOUBLE HEAD PARKING LIGHT POLES TOTAL (15) TYP. OR (E) TO BE REPLACED.
- (N) PG&E MAIN SUPPLY LINES
 - (N) WATER/ AIR PRESSURE STATION
 - BACK-FLOW PREVENTOR BOX 5' AWAY FROM SIDEWALK W/ PROTECTION CAGE SEE CITY STANDARD DETAIL SD-201 OR SD-202
- LANDSCAPE AREA= 5,553 SF
 - LOT SIZE= 25,628 SF
 - NEW 2-STORY MINI-MARKET:
 - GROUND= 2,074 SF
 - 2ND= 988 SF
 - SUBTOTAL= 3,062 SF
 - BUILDING COVERAGE= $B_0/A = 2,074 / 25,628 = 8\%$
 - LANDSCAPE AREA= 5,553 SF (SEE 10/A3 DIAGRAM)
 - IMPERVIOUS AREA= A-E= PARKING+ DRIVEWAY+ CONC SIDEWALK+ CAR-WASHING+ DUMPSTER ENCLOSURE+ PLAZA+ FUEL STATIONS= 25,628 SF - 5,553 SF= 20,075 SF
 - OCCUPANCY USE GROUP= B (GAS STATION AND MINI MARKET) AND R-1 (2ND FLOOR FOR EMPLOYEE BOARDING)
 - CONSTRUCTION TYPE VB (NO FIRE SPRINKLER REQUIRED), AND 1HR CMU SEPARATION WALL ALONG EAST ADJACENT PROPERTY
 - PARKING SPACES TOTAL (21)
 - HD= 1 W/ EV STATION PER SEPARATE PERMIT
 - REGULAR= (2)
 - FUEL STATION= (6)
 - VACUUM STATION= (8)
 - CAR WASH QUEUE LINE (4)

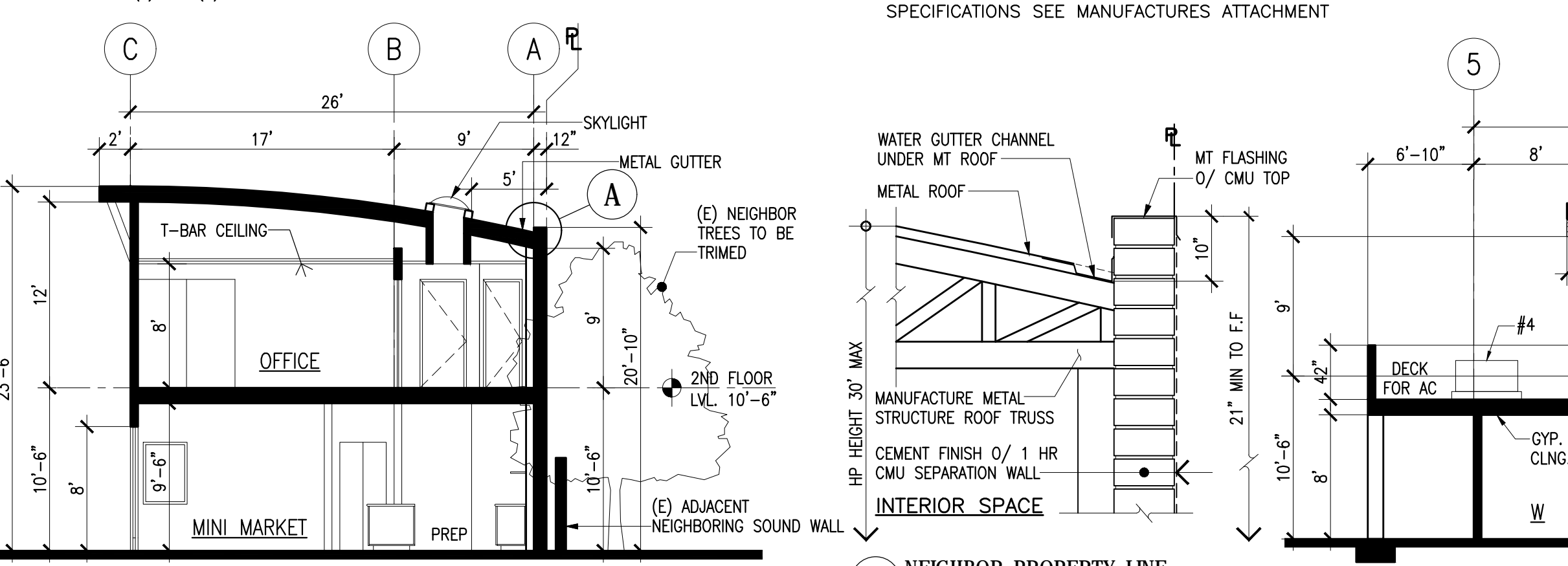
CALIFORNIA CODES AND REGULATIONS COMPLIANCE		
California Codes	City Ordinance #	
a. California Fire Code	2016 Edition	#24-2016
b. California Residential Code	2016 Edition	#23-2013
c. California Building Code	2016 Edition	#23-2013
d. California Mechanical Code	2016 Edition	#23-2016
e. California Plumbing Code	2016 Edition	#23-2013
f. California Electric Code	2016 Edition	#23-2013
g. California Green Building Code	2016 Edition	#23-2013
h. Wildland-Urban Interface Fire Area	2016 Edition	#23-2016



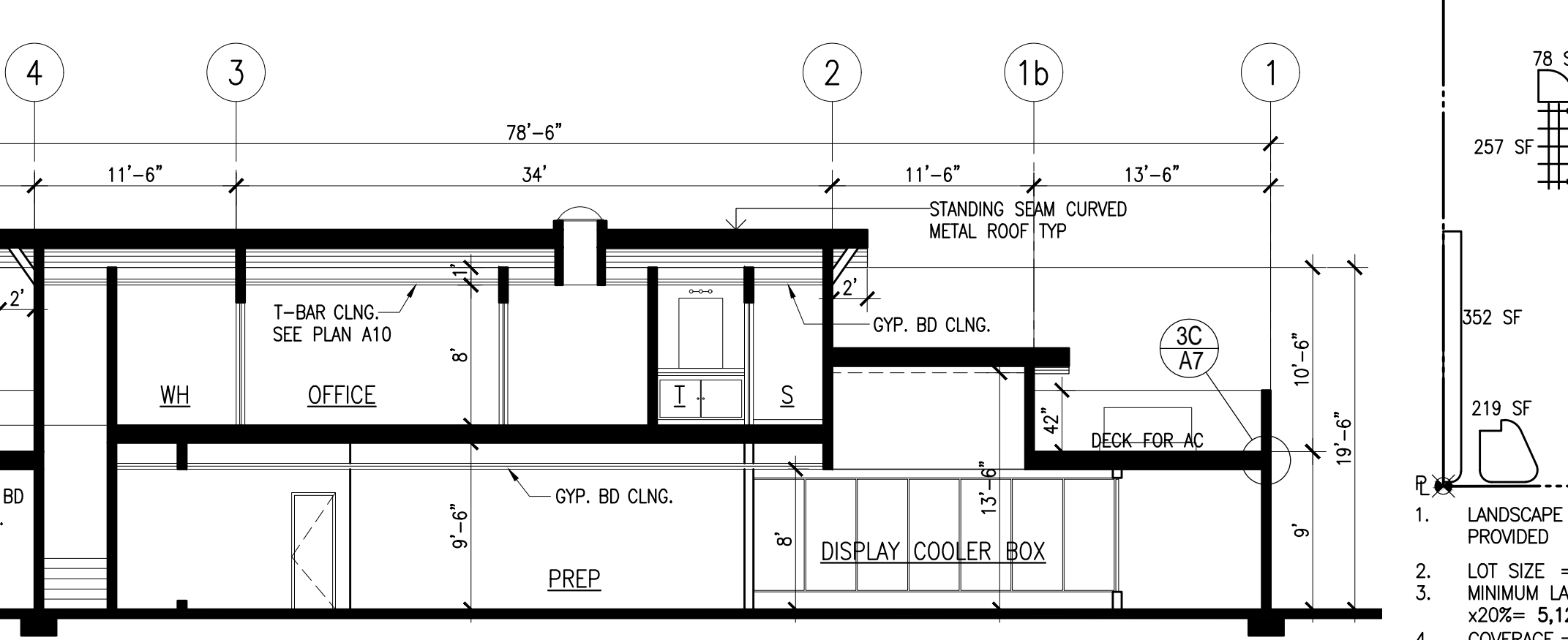
NOTE: 1 (N) 24" BOX STREET TREE OR (N) 15 GALLON BUFFER TREE. W/ MINI 6'-6" SHADE-CLEARANCE HT. ALL TRESS ALONG DRIVEWAY AND PARKING ISLANDS SHALL BE MIN 6'HT CLEARANCE FOR CAR CLEARANCE
 2 PLUMBING CONTRACTOR SHALL CONDUCT FIELD VERIFICATION ON WATER SUPPLY CAPACITY OF (E) AND (N) WATER METERS TO SERVE VARIOUS FUNCTIONS PER DESIGN DESIGNATION



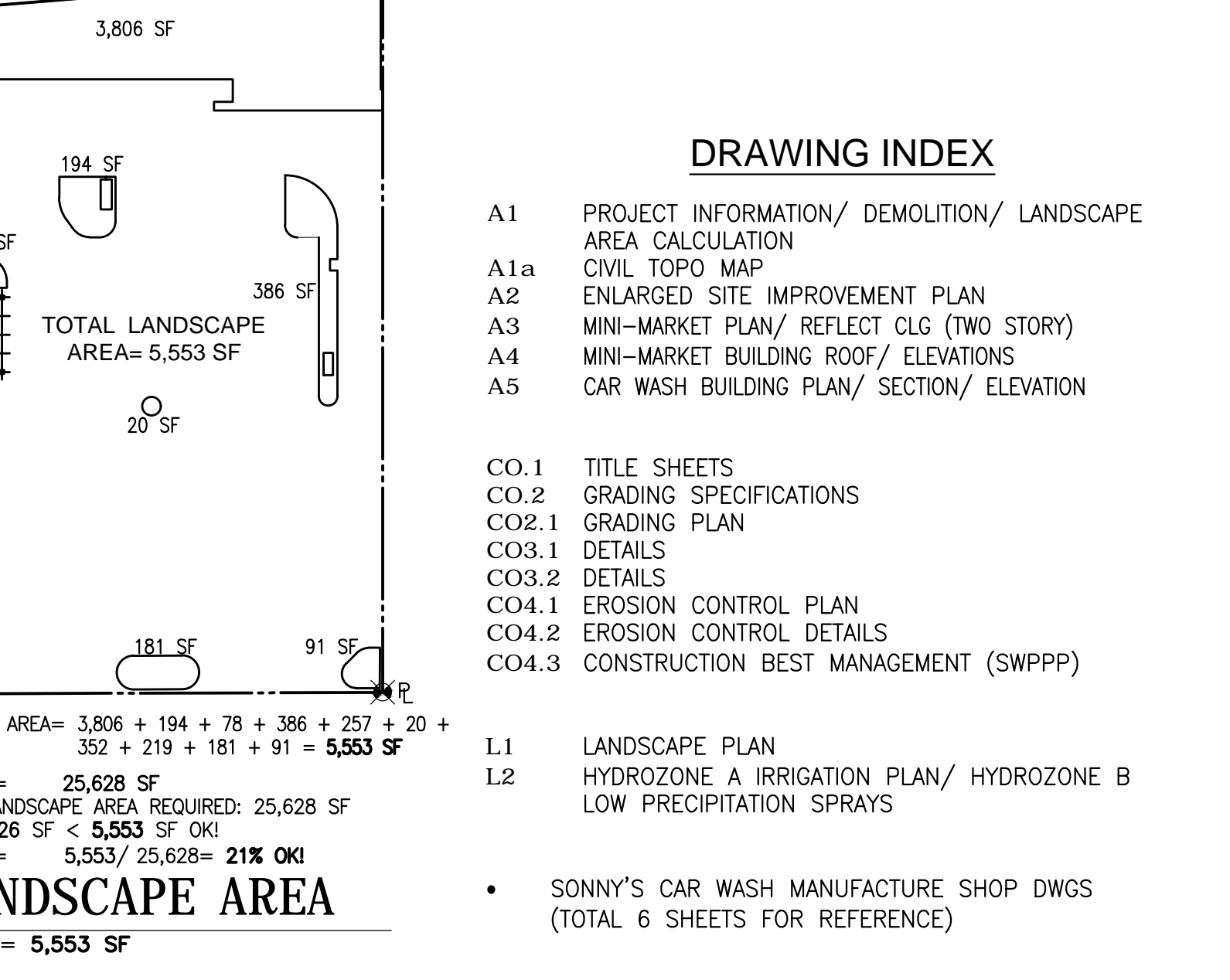
1 DEMOLITION AND (N) SITE PLAN OVERLAY 1/16"=1'
 SEE A1a FOR (E) CIVIL TOPO MAP ON ACCURATE EXISTING CONDITION
 SEE A3 FOR (E) PHOTOS ON CURRENT CONDITIONS
 (N) BUILDING STRUCTURE LOCATION FOR MINI-MARKET AND CAR WASH SHADE
 (E) BUILDING AND GROUND SURFACE STRUCTURE AND OVER HEAD PG&E LINES TO BE DEMOLISHED OR RELOCATED
 (N) PARKING SPACES AND ISLANDS TO BE INSTALLED AND (E) FUEL STATIONS W/STRUCTURE COVER SHADE REMAIN INTACT



4 SECTION A-A 1/8"=1'



3 SECTION B-B 1/8"=1'



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LICENSED ARCHITECT
 No. 12317
 STATE OF CALIFORNIA

GAS STATION AND CAR WASH EXPANSION AND UPGRADE
 438 WEST TENNYSON RD

Sheet Title

Date 05-20-18

Scale AS SHOWN

Drawn

Job

File

Sheet A1

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GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD

Sheet Title

Date 05-20-18

Scale AS SHOWN

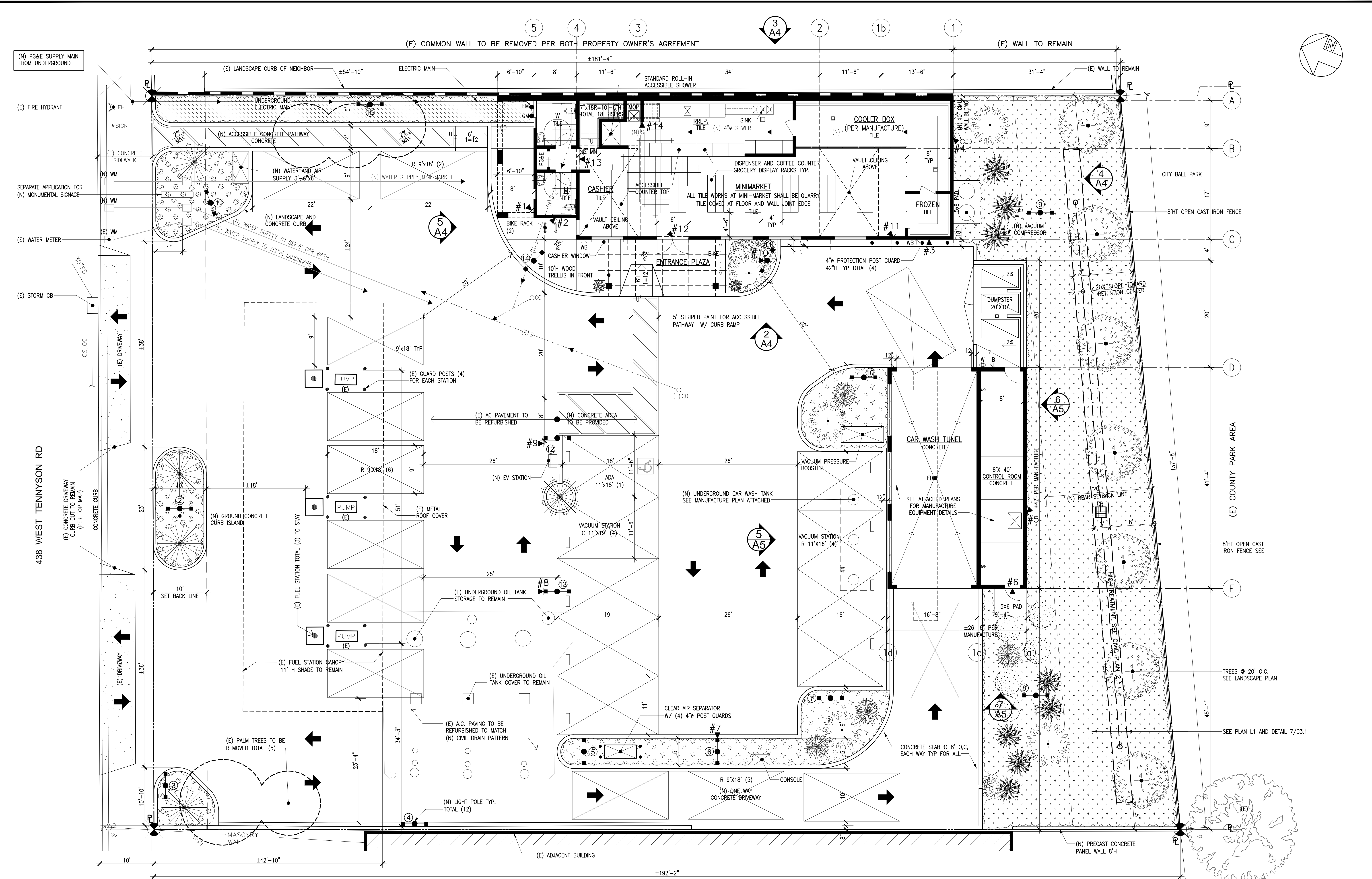
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Job

File

Sheet

A2



- 1. TOTAL LOT AREA= 25,628 SF
- 2. TOTAL LANDSCAPE AREA= 5,296 SF
- 3. BUILDING: a. MINI-MARKET= GROUND FLOOR 2,074 SF
+ 2ND FLOOR 988 SF= 3,062 SF
- b. CONTROL RM= 402 SF
- c. CAR WASH SHELL AREA= 803 SF
- d. TOTAL BUILDING SHELL FOOT PRINT AREA= 3,279 SF

- 4. BUILDING COVERAGE $3a+3c+3d/1 = 2,074+ 402+ 803/ 25,628= 13\%$
- 5. LANDSCAPE RATIO= $25,628 \times 20\% = 5,126$ SF REQUIRED AND (N) LANDSCAPE AREA 5,296 SF PLUS IVY COVER ON TOP OF ENTRANCE TRELLIS. OK!
- 6. PARKING SPACES PROVIDED= 21
REGULAR= 2
FUEL STATION= 6
VACUUM STATIONS= COMPACT 4 (11'x16')+ REGULAR 4 (11'x19')=8
CARWASH QUEUE LINE= 4
ADA= 1
- 7. TOTAL (N) LIGHT POLES (15) TYP INSIDE SITE

- LEGEND:
- #1 SECURITY CAMERA IN STORE AND OUTSIDE TOTAL (15)
 - ① 25' PARKING LIGHT POLES TOTAL (15)
 - (E) NEIGHBORING CONCRETE FENCE WALL TO BE REMOVED AND LEAVE COMMON NON-BARRIER OPEN SPACE IN FRONT PER AGREED BY BOTH PROPERTY OWNERS

1 (N) SITE PLAN
SEE TOPO MAP FOR EXISTING SITE CONDITION

1/8"=1'



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**GAS STATION AND CAR WASH
 EXPANSION AND UPGRADE
 438 WEST TENNYSON RD**

Sheet Title

Date 05-20-18

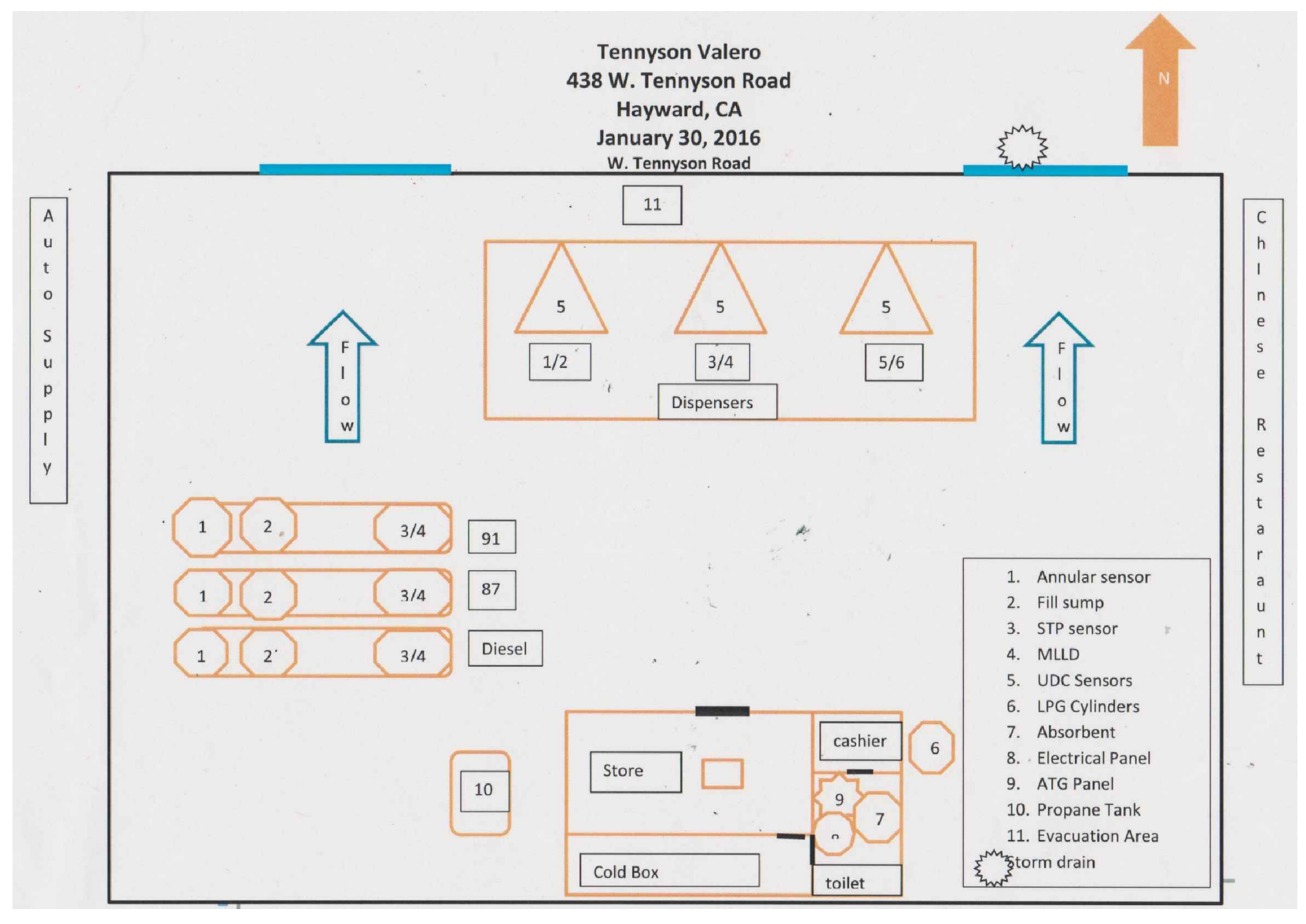
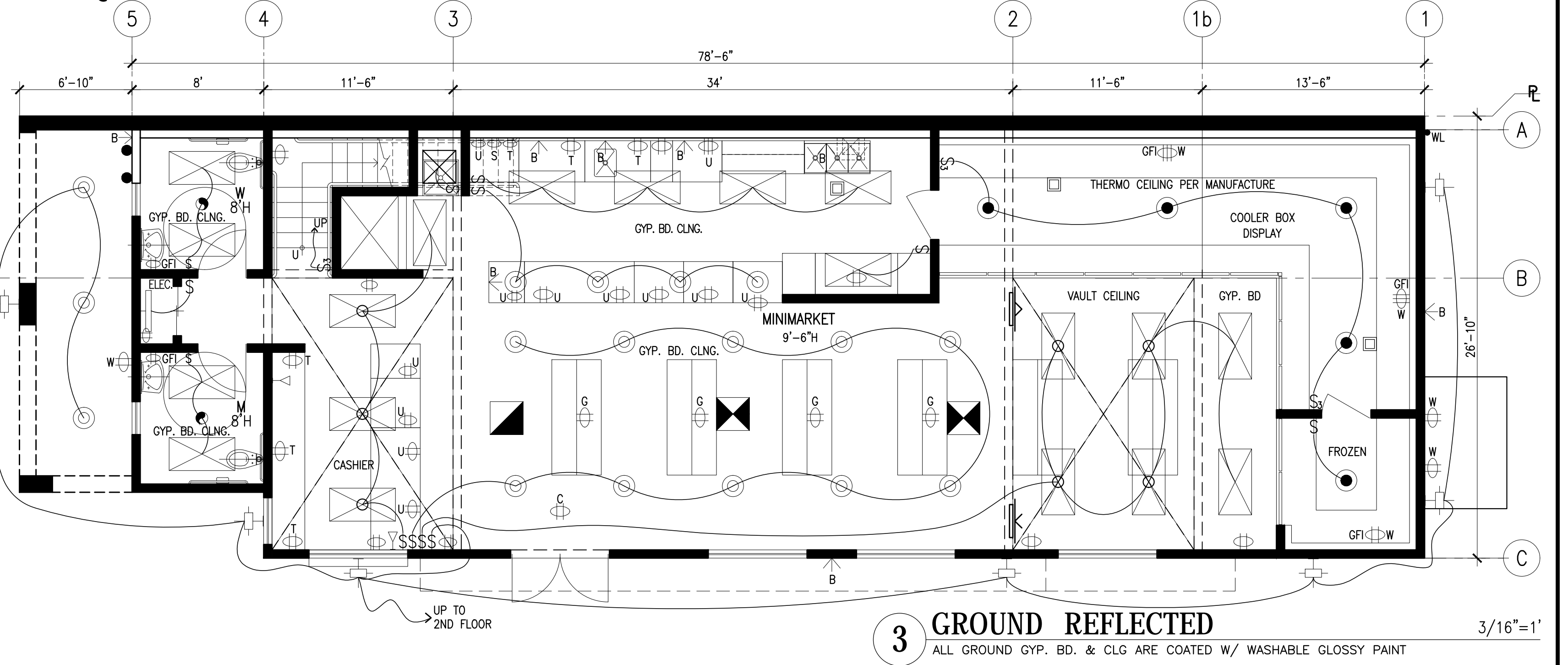
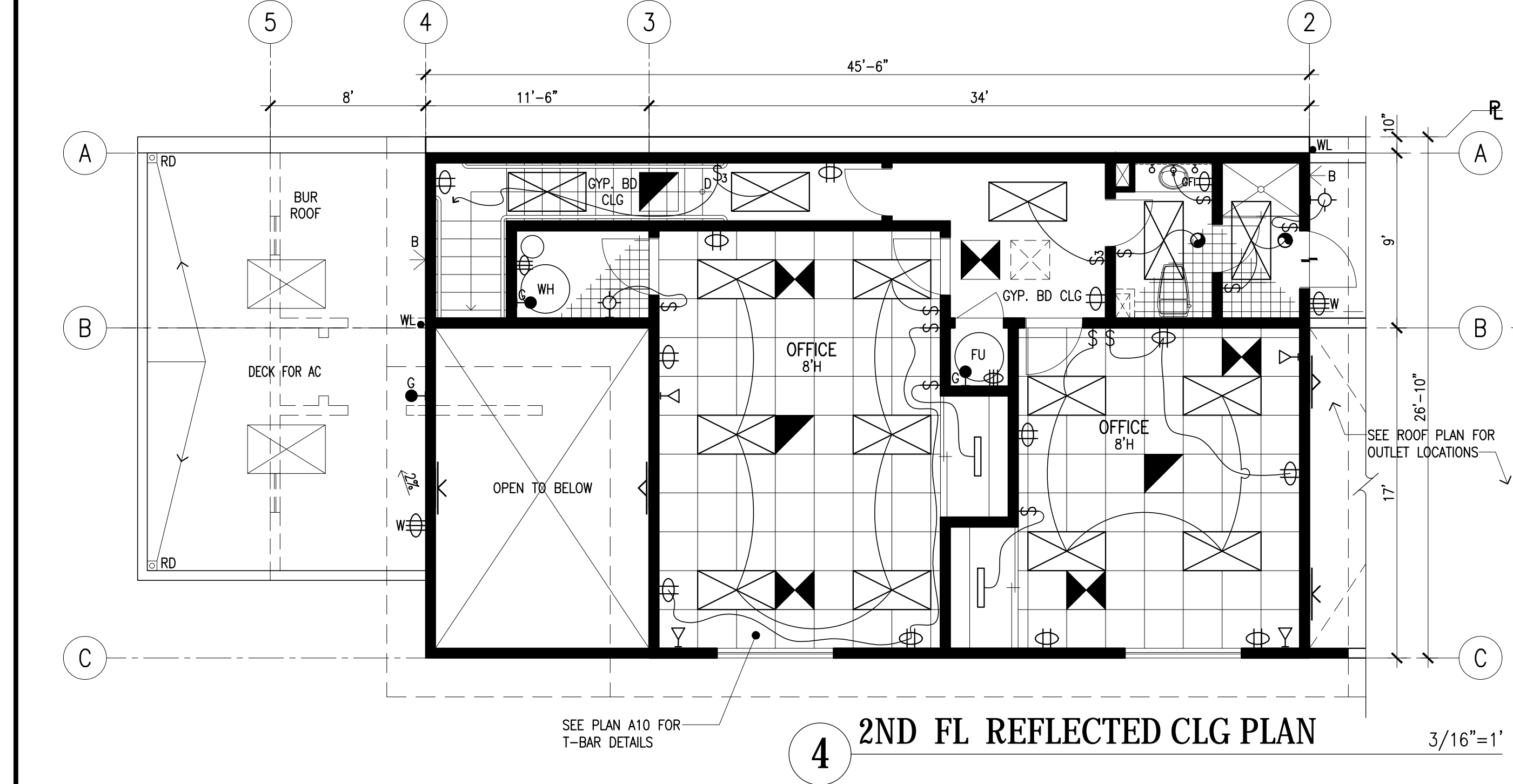
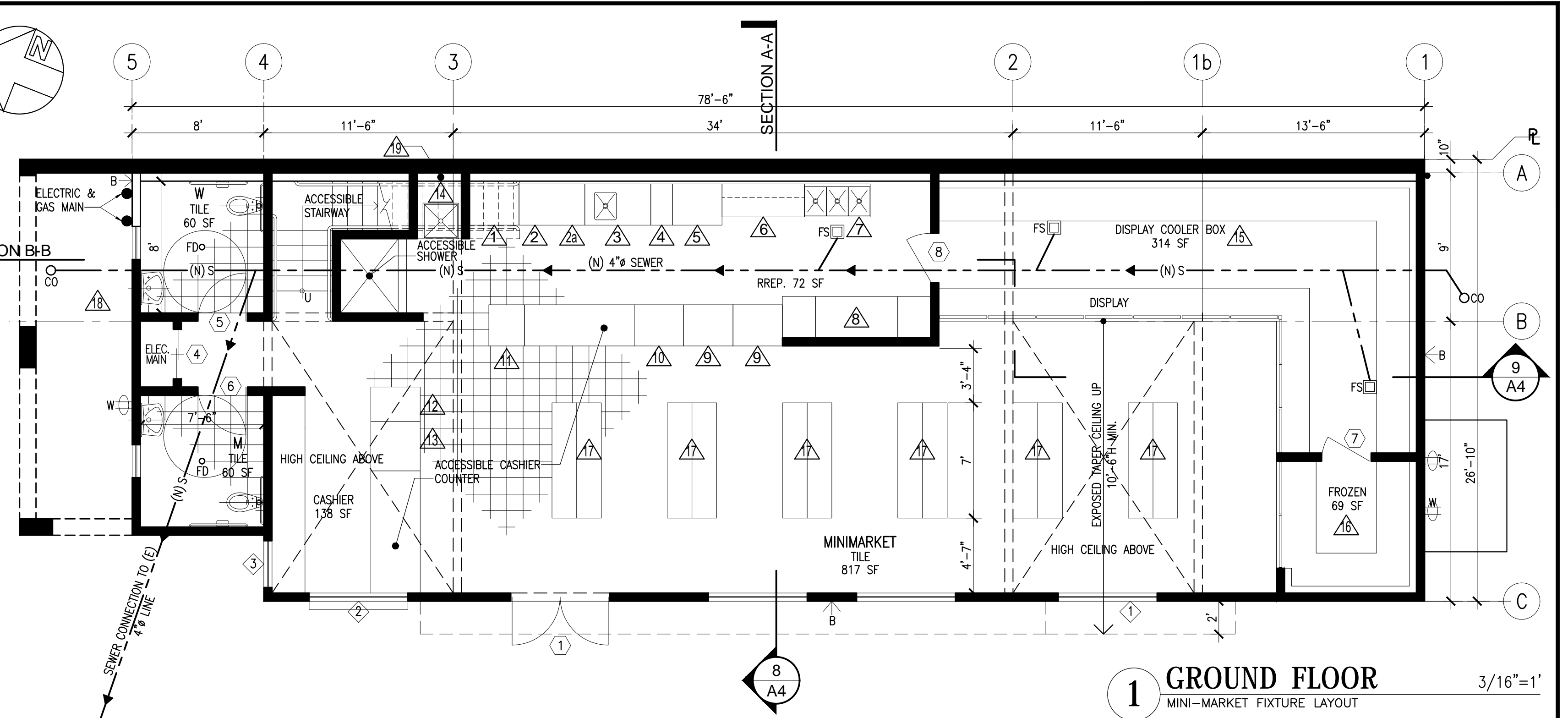
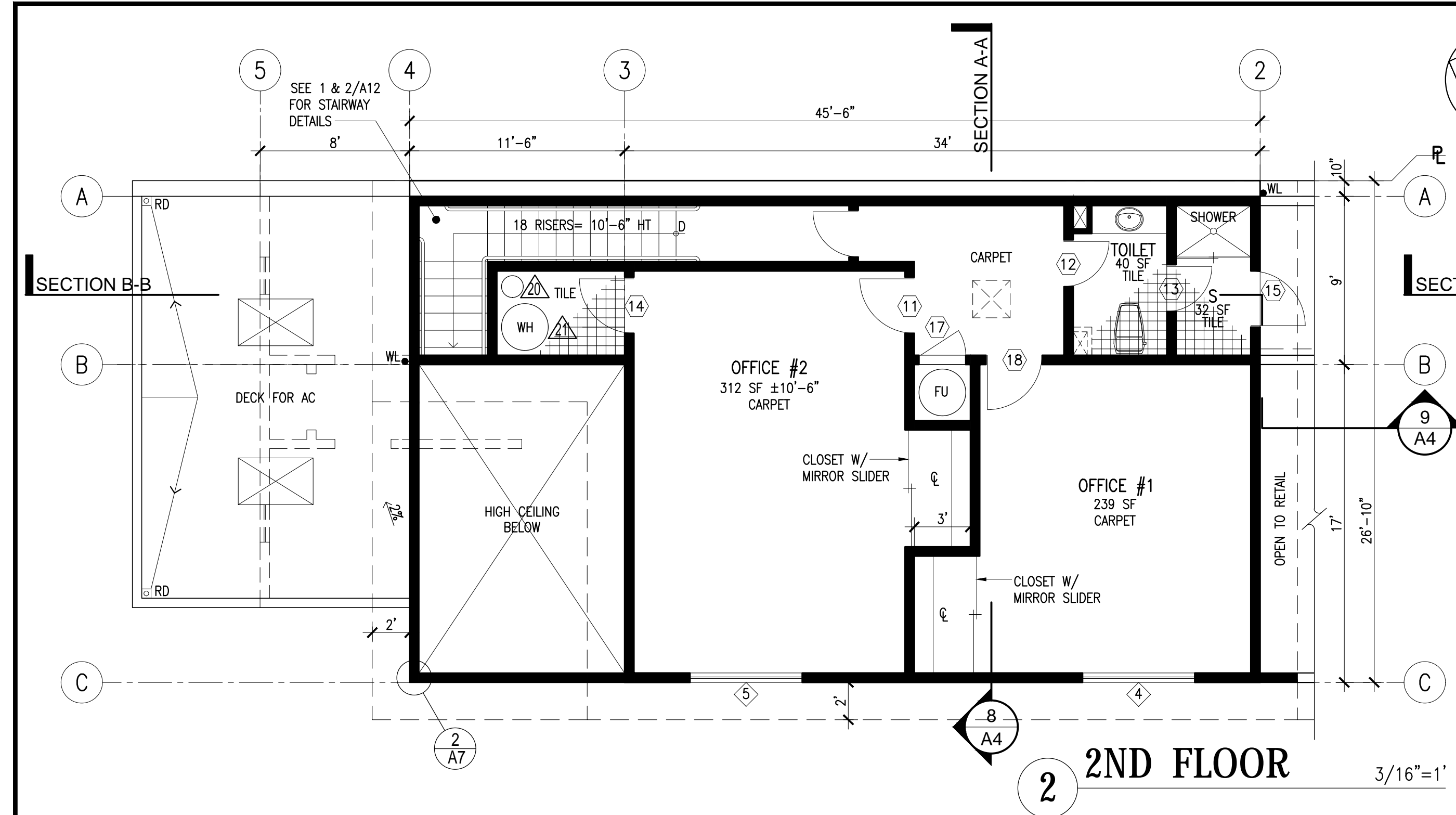
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Job

File

Sheet **A3**

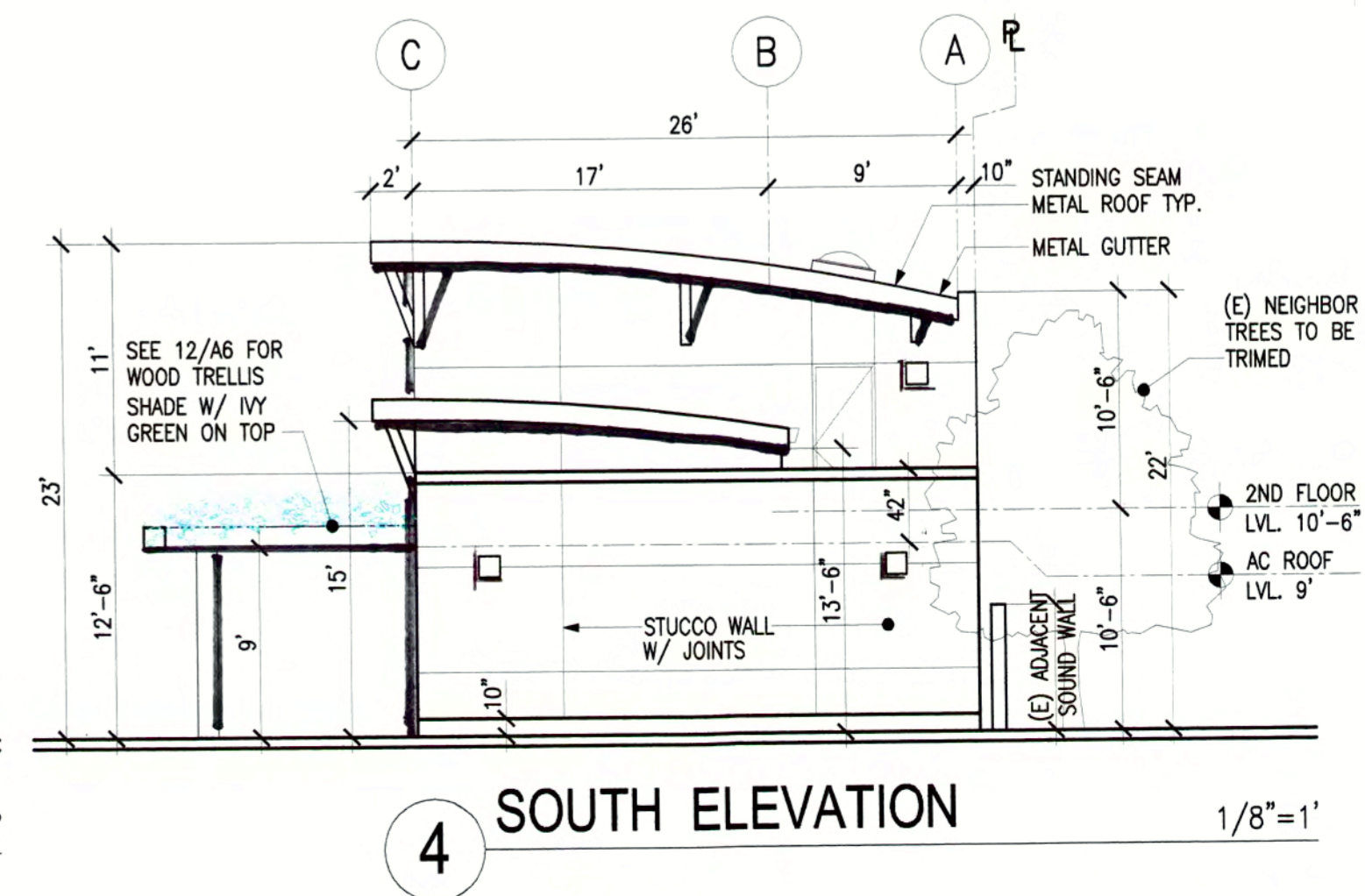
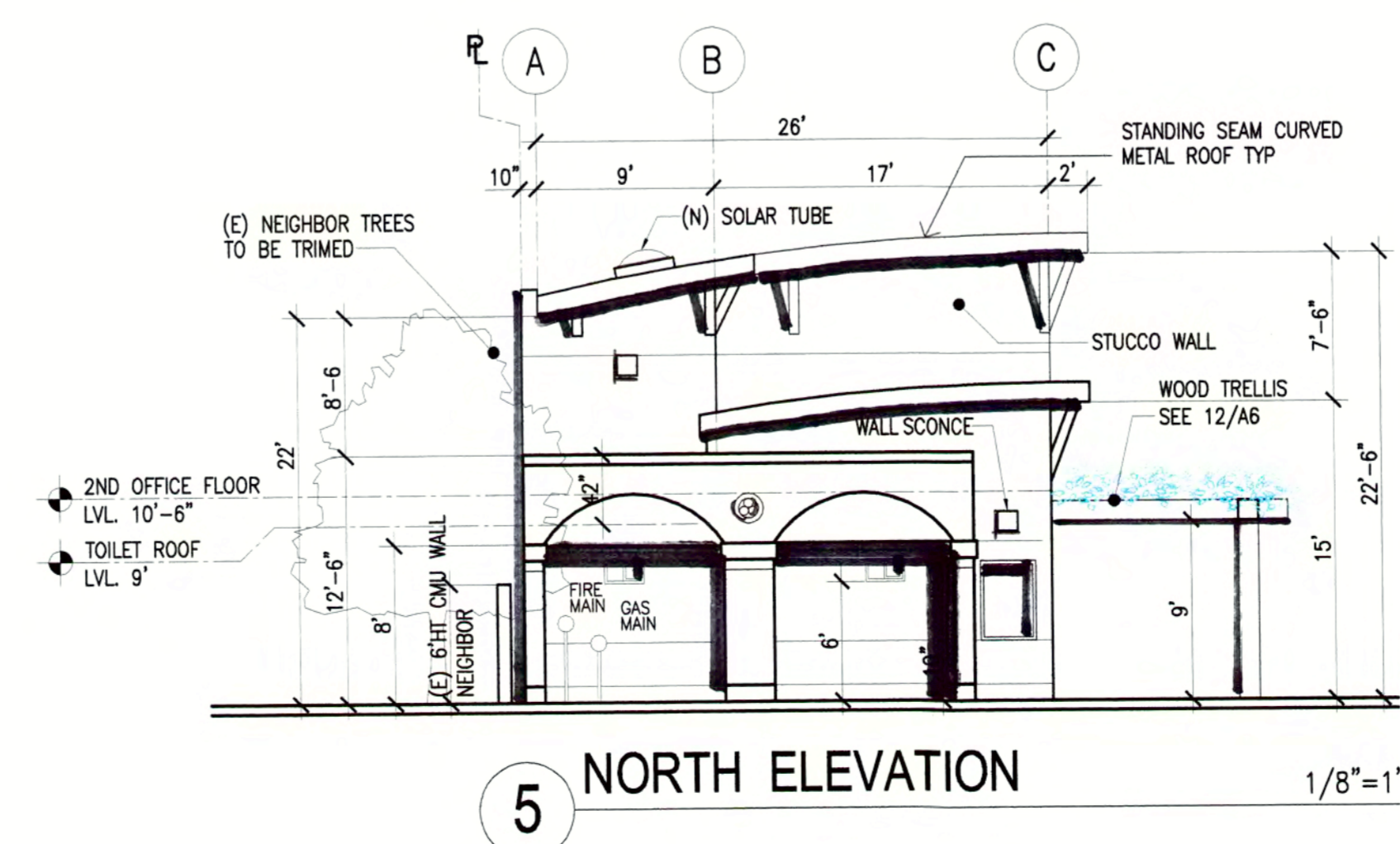
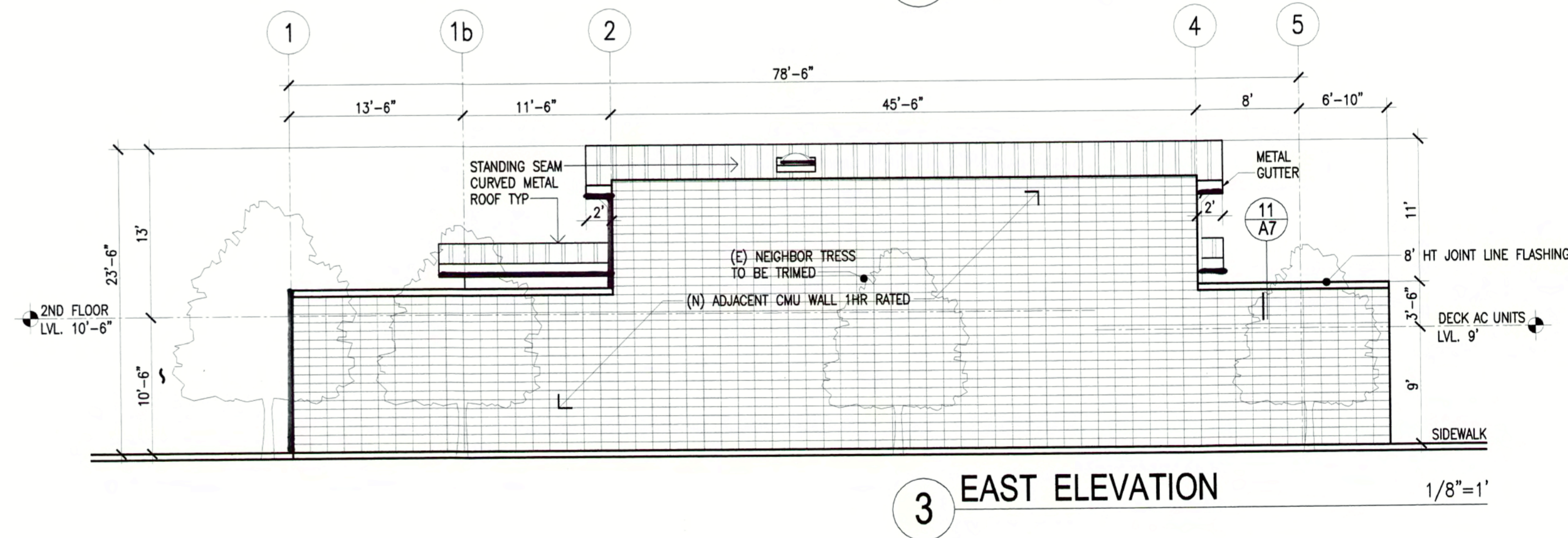
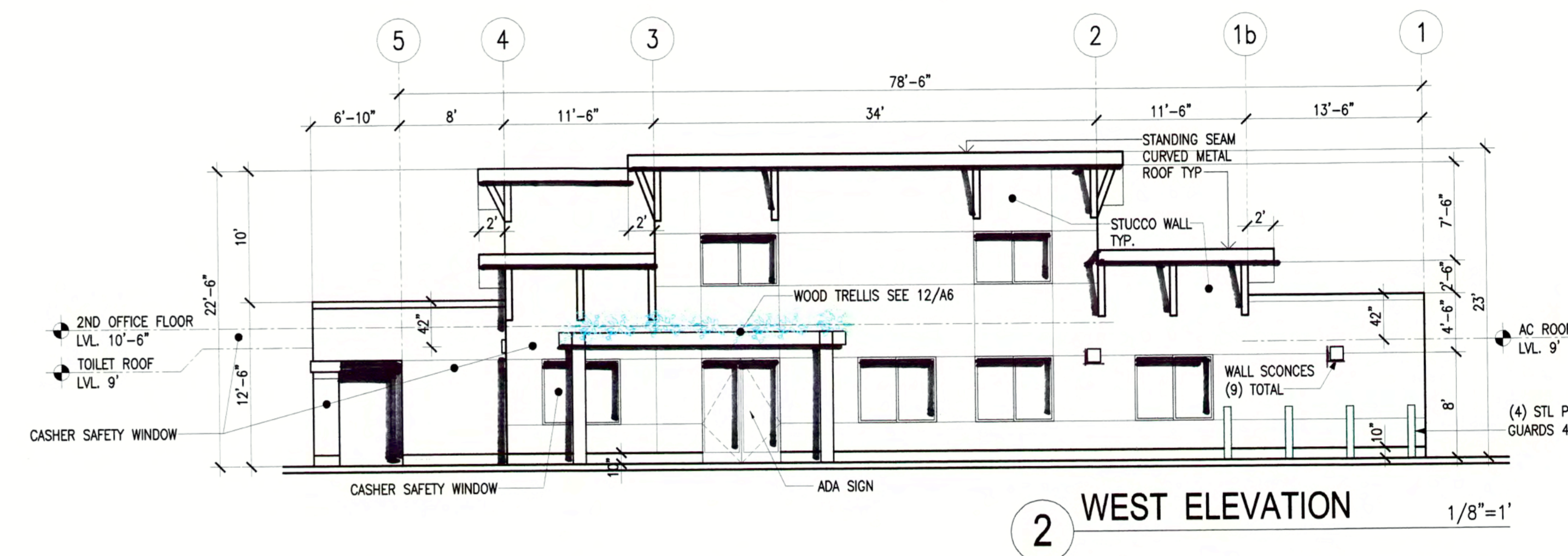
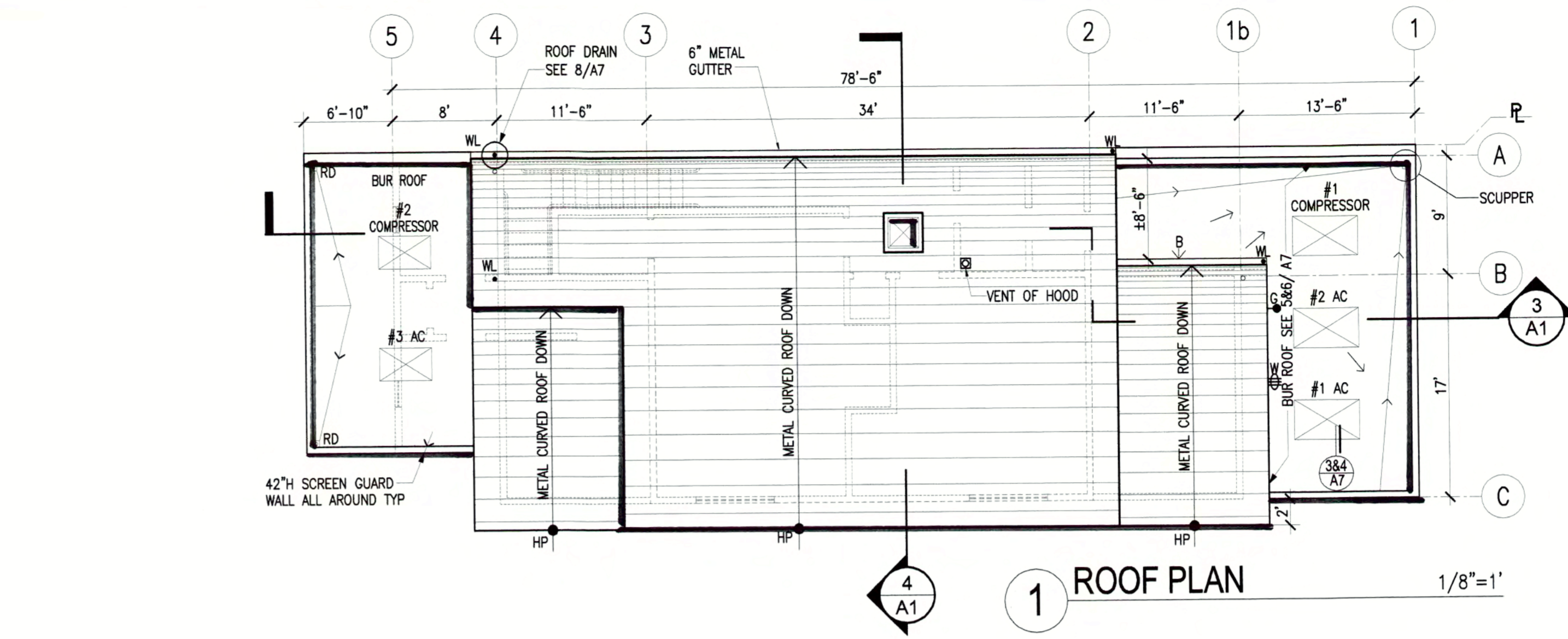
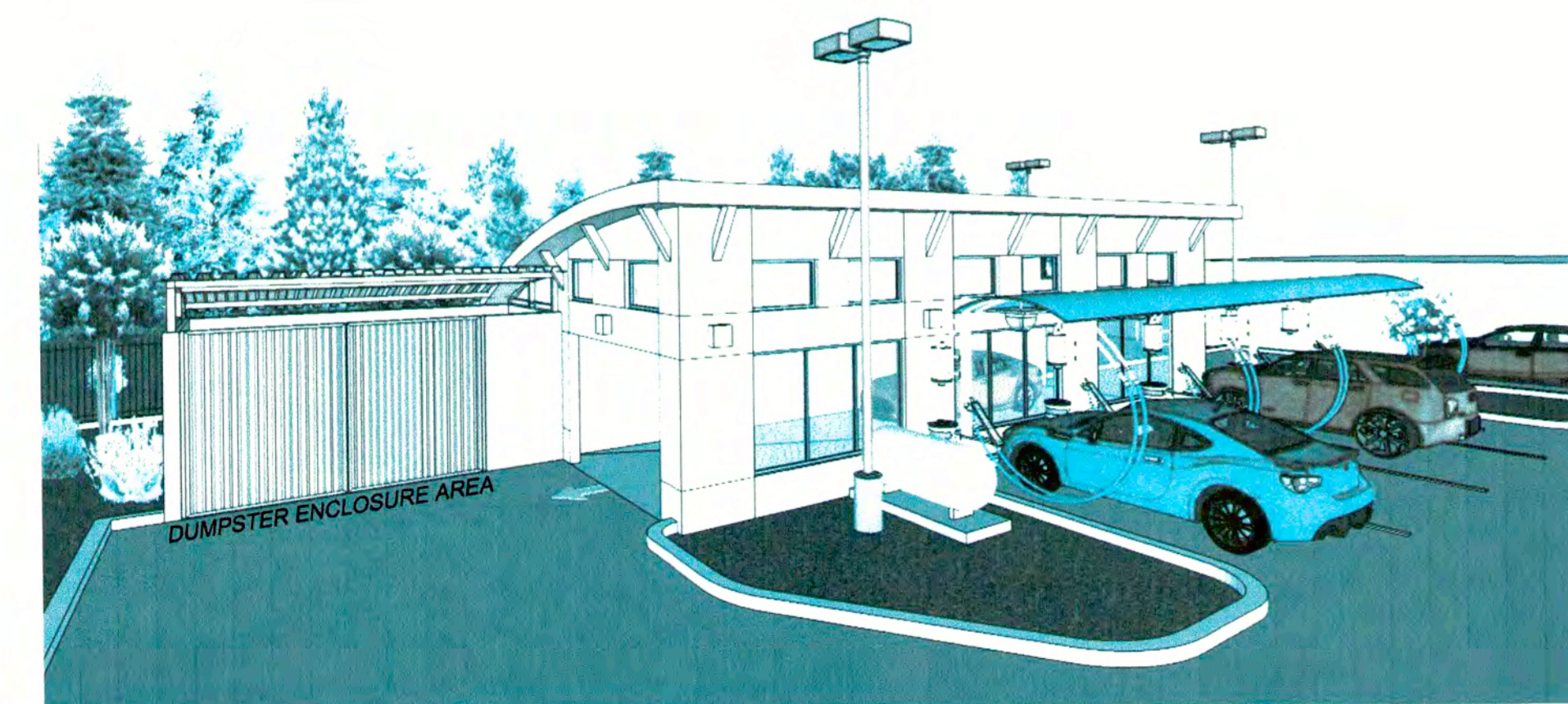
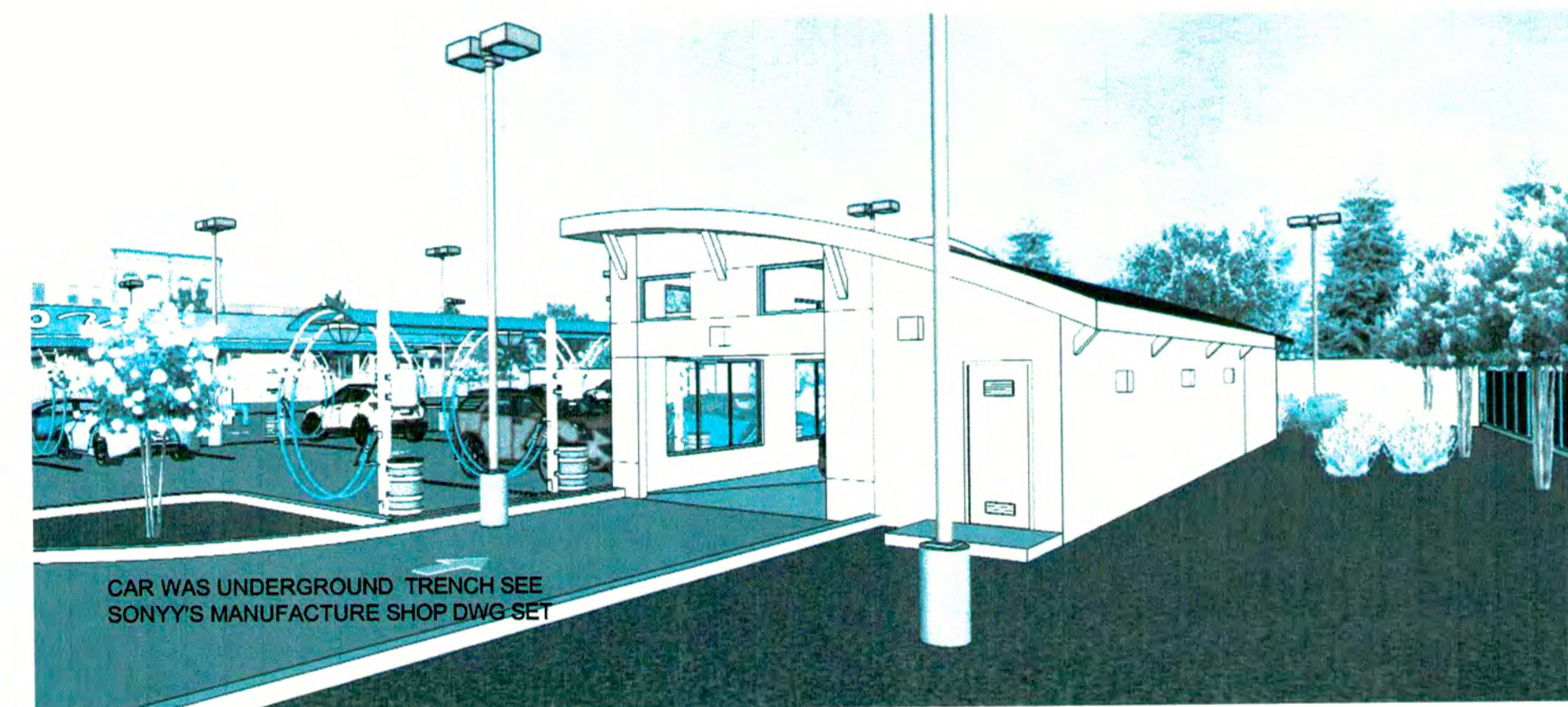
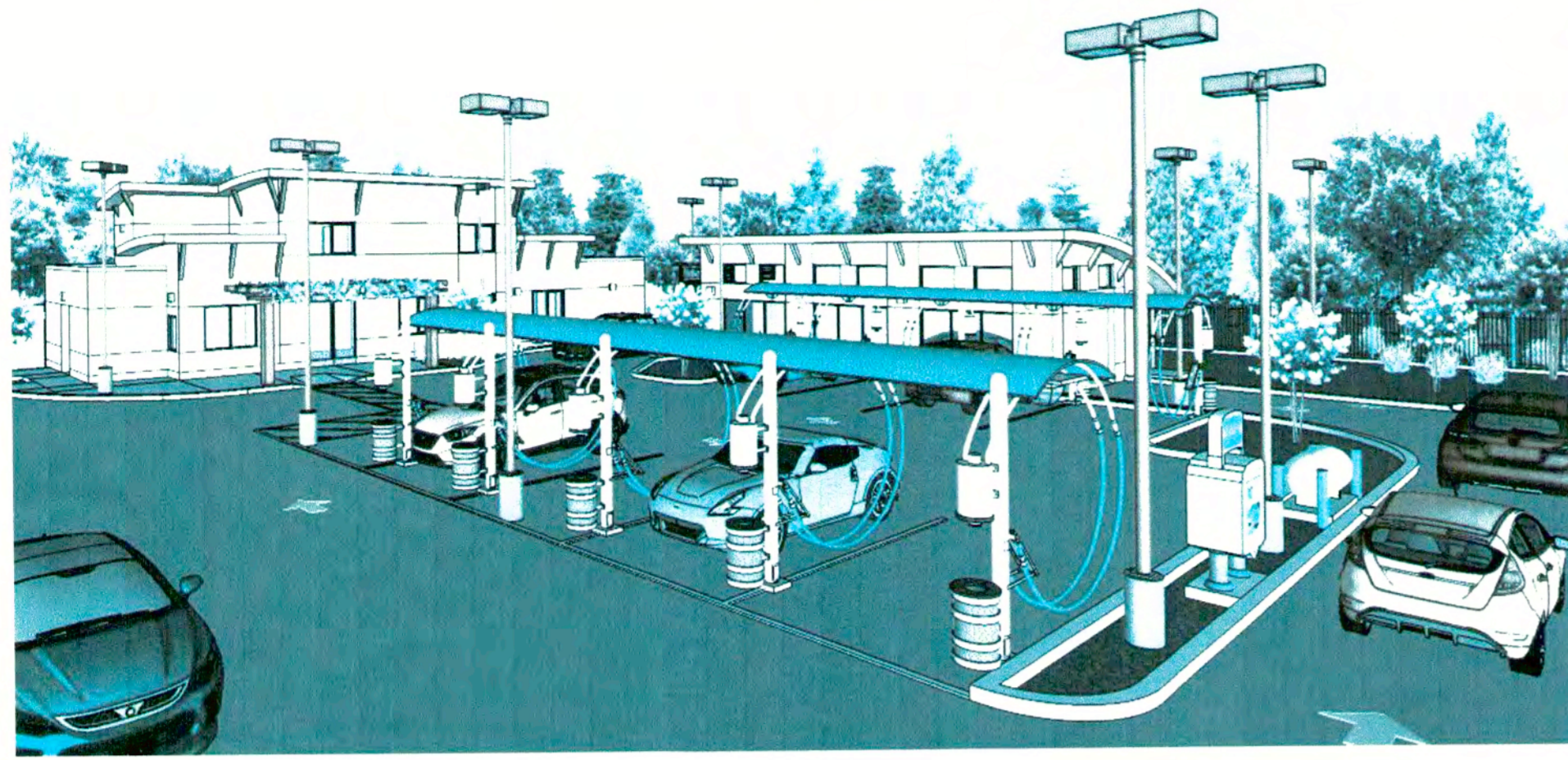


EMP FIXTURE LEGEND:

⊕	CEILING JUNCTION	⊠	2x2 AIR SUPPLY
⊕	WALL DUPLEX 15" A.F.F.	⊠	AIR RETURN
⊕	ABOVE TABLE	⊠	FIELD WATER BIBB OR UNDERCOUNTER WATER CONNECTION
⊕	UNDER COUNTER	FS	FLOOR SINK, (DRAIN LINES FROM SINK AND WALKING COOLER SHALL BE INDIRECT INTO FLOOR SINK W/ REQUIRED AIR GAP)
⊕	ABOVE SHELF	RD	ROOF DRAIN
⊕	HEAVY DUTY PLUG	FD	FLOOR DRAIN
⊕	(ALL PLUGS WITHIN FOOD PREPARATION AREA ARE GFI TYPE)	GFI	PLUG THRU COUNTER CONNECTED TO UNDER STRIP
⊕	WATER PROOF PLUG	—	T-8 FLUORESCENT TUBE OR SOFFIT MOUNT
⊕	GROUND FAULT PLUG	—	2x4 FLUORESCENT T-BAR OR SOFFIT MOUNT
⊕	SWITCH	—	2x2 FLUORESCENT T-BAR OR SOFFIT MOUNT
⊕	DIMER	—	SOFFIT SIDE SUPPLY
⊕	WALL MOUNTED SCENCE	—	SOFFIT SIDE RETURN
⊕	GAS VALVE	—	2x4 FLUORESCENT SUSPEND
⊕	TELEPHONE/ CABLE JACK		
⊕	RECESS LED		
⊕	CEILING MOUNTED DOWN LIGHT FOR FROZEN AREA		

RETAIL FIXTURES

⊕	SALAD/ SANDWICH PREPARATION TABLE	⊕	CONCORDIA COFFE SYSTEM
⊕	ENCLOSED BASE WORK TABLE	⊕	C713 SOFT SERVE FREEZER
⊕	UNDERCOUNTER ICE MACHINE	⊕	FROZEN BEVERAGES DISPENSERS
⊕	STEEL WORK TABLE W/ SINK	⊕	2x2 MOP SINK
⊕	ELECTRICAL FRYER	⊕	DISPLAY COOLER BOX
⊕	SELF-COOKING CENTER	⊕	FROZEN BOX
⊕	14 GA. S.5 WORK TABLE	⊕	GROCERY RACKS
⊕	S.S.3-COMPARTMENT SINK	⊕	6' L MAX PROPANE RACK
⊕	REACH-IN REFRIGERATOR/ FREEZER	⊕	WATER FILTRATION ANCHORED TO WALL
⊕	GLASS DISPLAY CASE (2)	⊕	WATER SOFTENER TANK
⊕	HOT DOG DISPLAY STEAMER	⊕	75 GA WATER HEATER (GAS TYPE)



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GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD

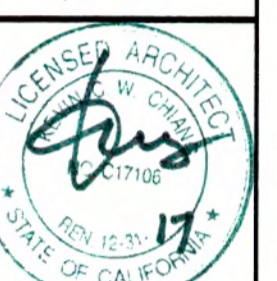
Sheet Title
Date 03-10-16
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Job
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Sheet
A4

REVISIONS

NO.	DESCRIPTION

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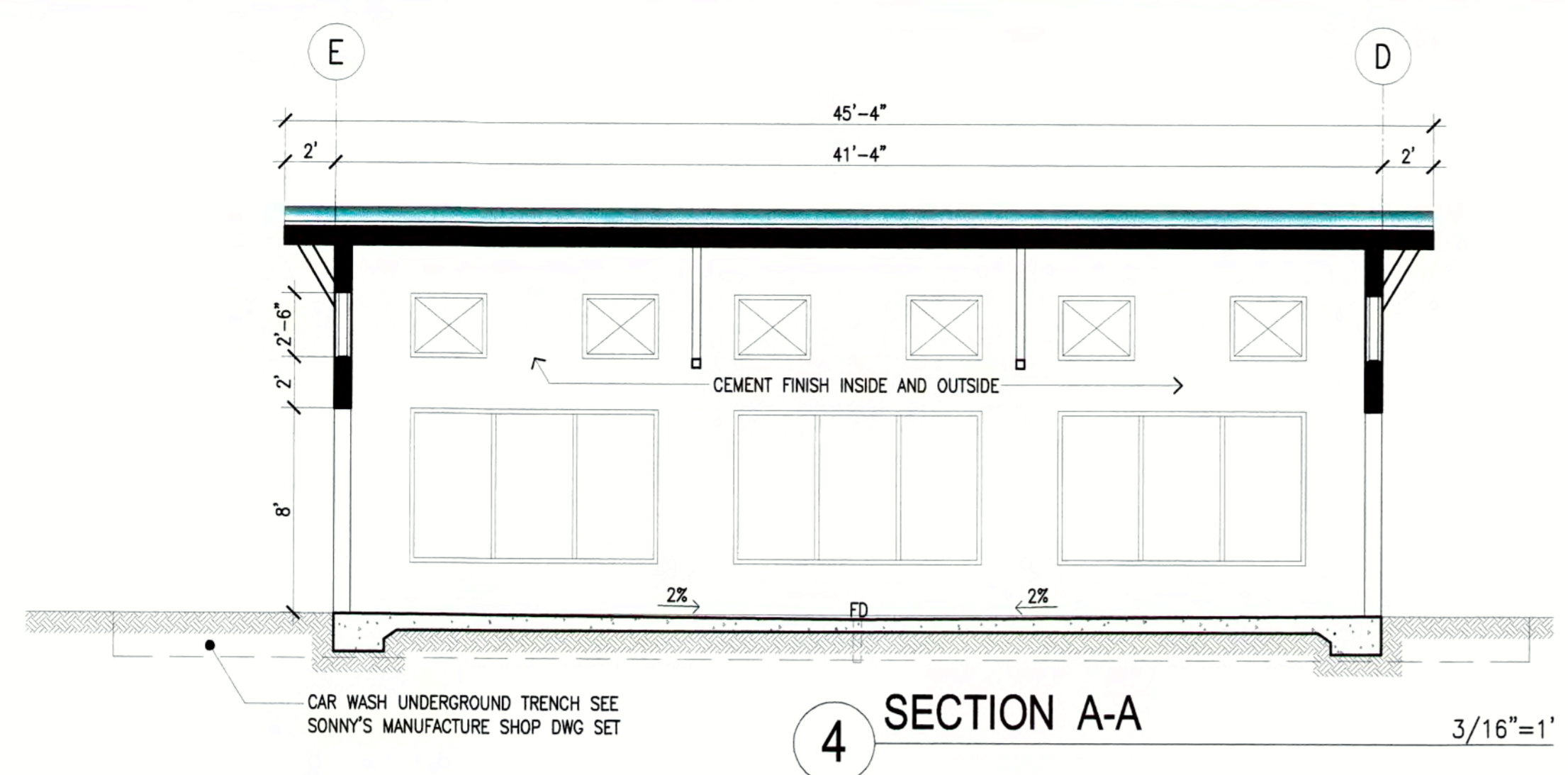


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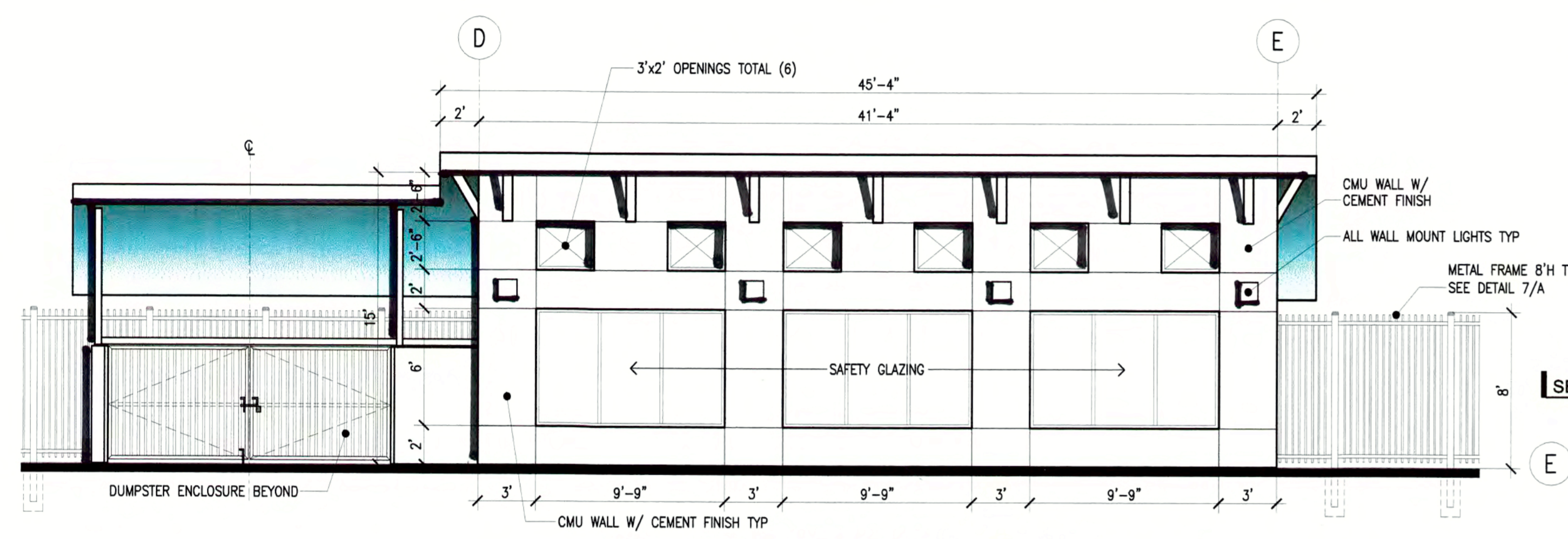
**GAS STATION AND CAR WASH
 EXPANSION AND UPGRADE**
 438 WEST TENNYSON RD

Sheet Title
 Date 03-10-16
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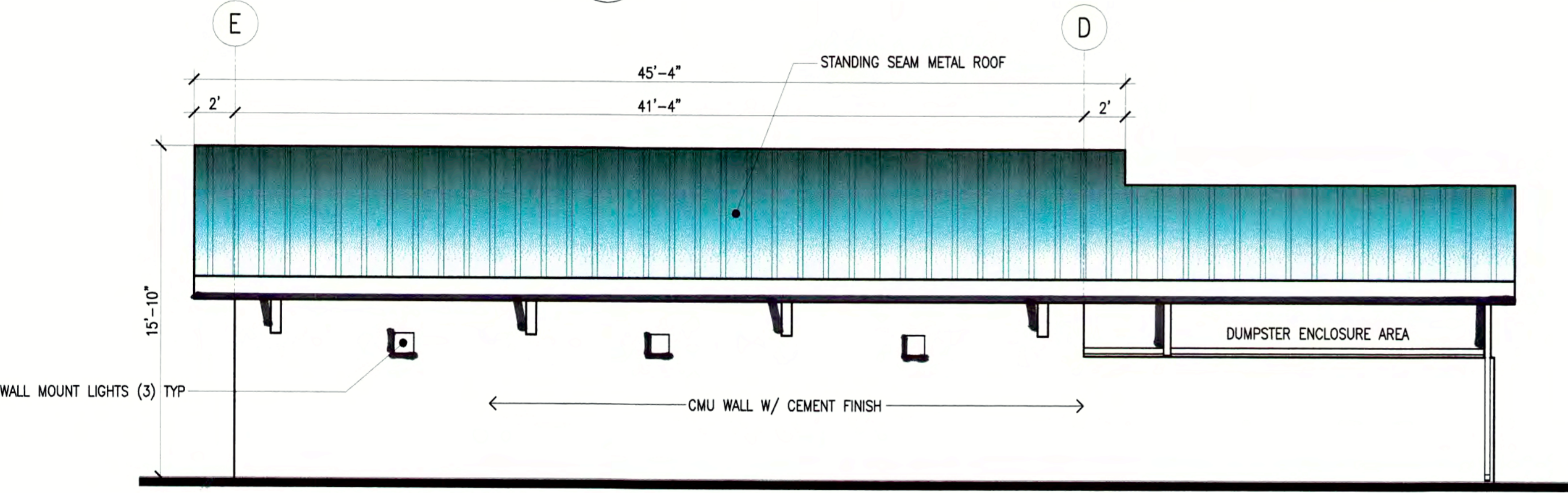
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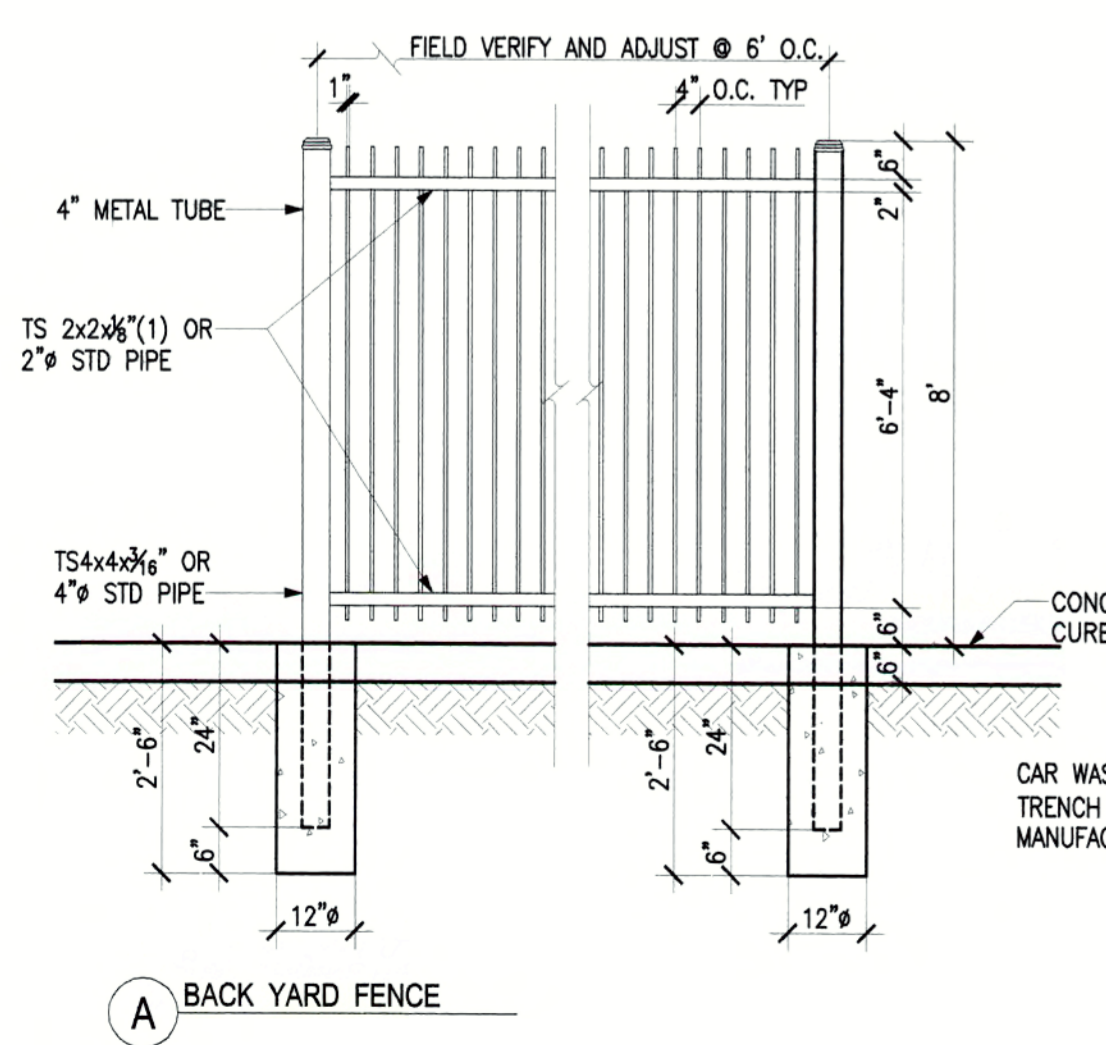
4 SECTION A-A 3/16"=1'



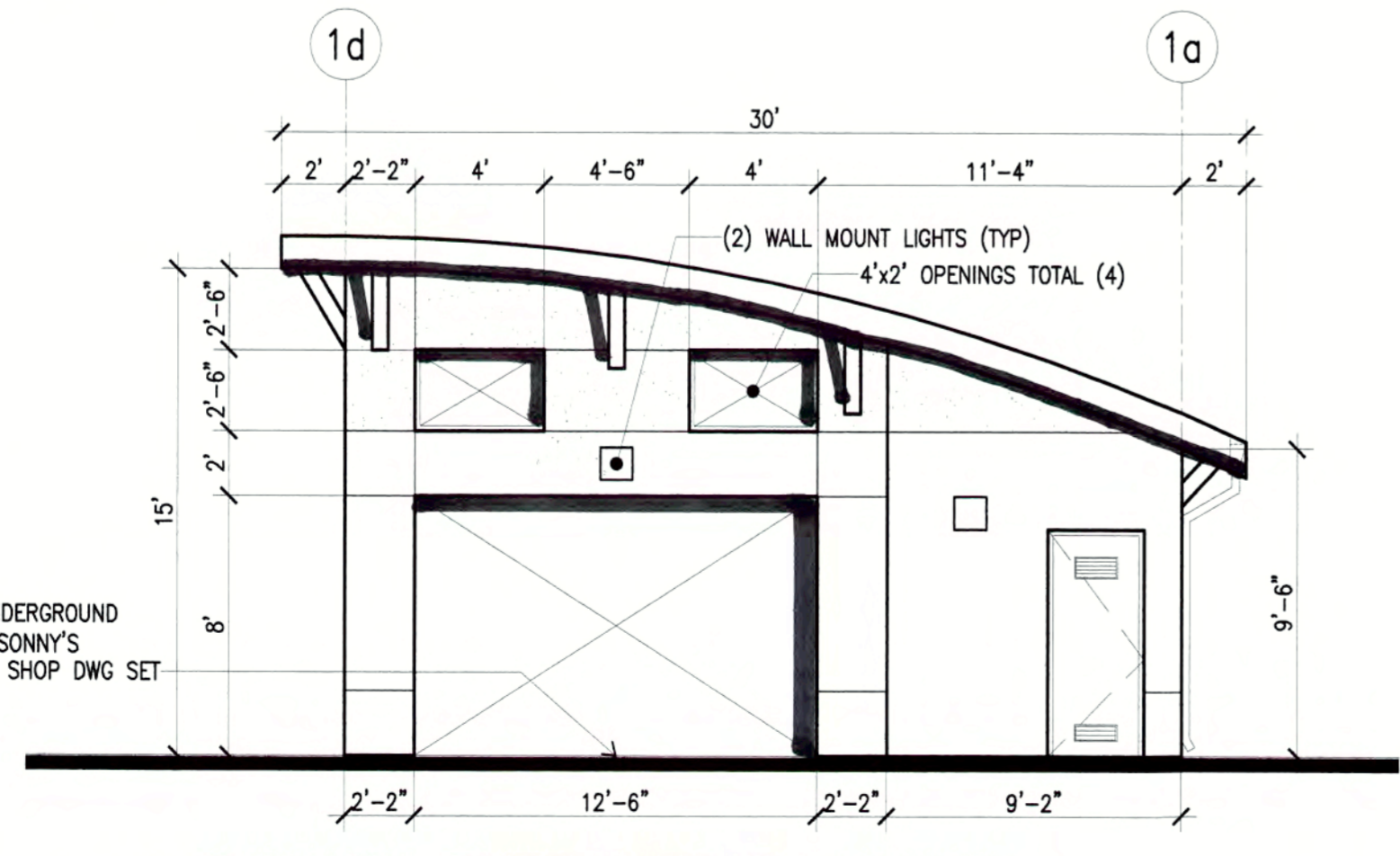
5 FRONT ELEVATION OF CAR WASH TUNNEL 3/16"=1'



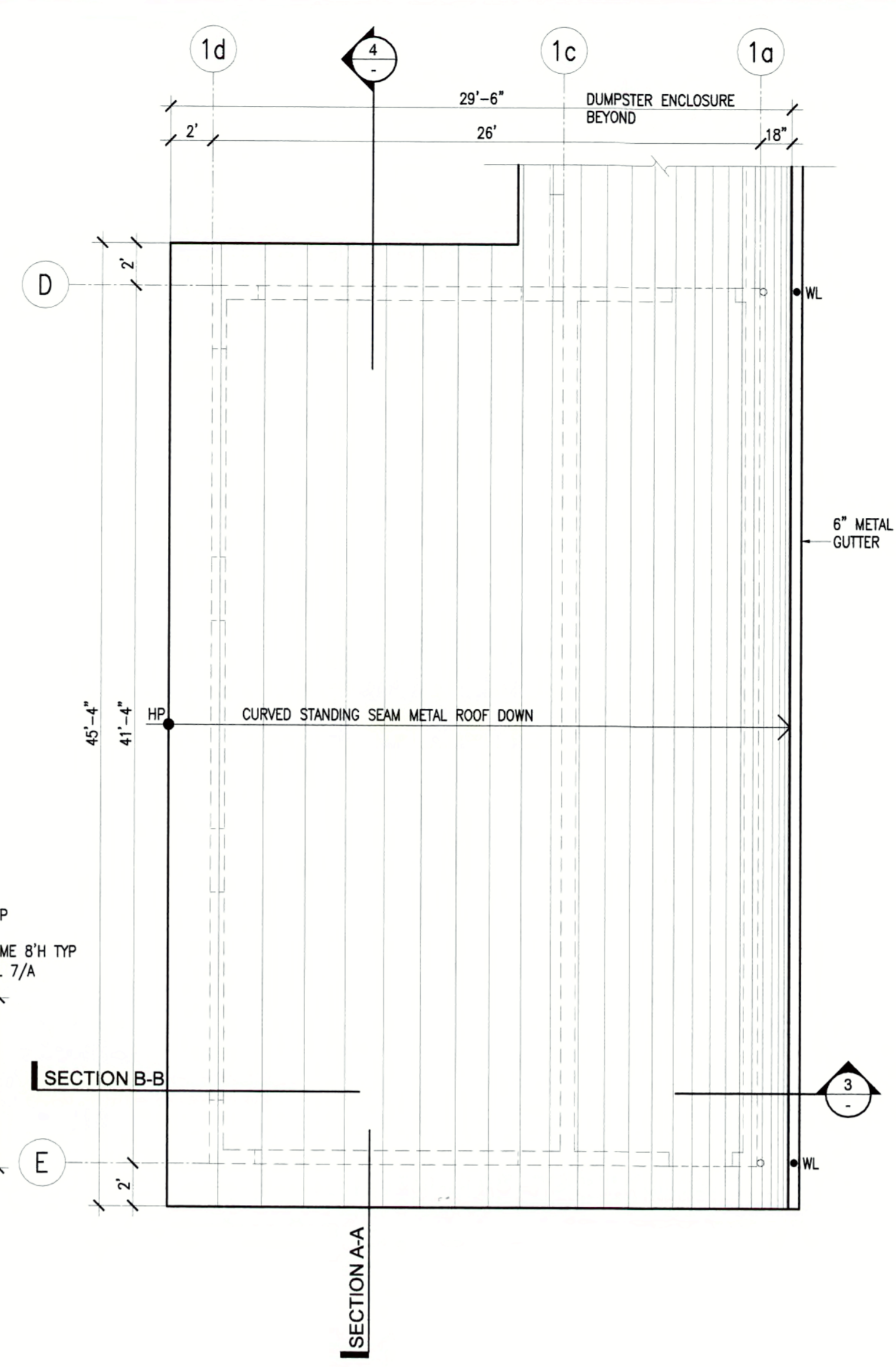
6 BACK ELEVATION OF CAR WASH TUNNEL 3/16"=1'



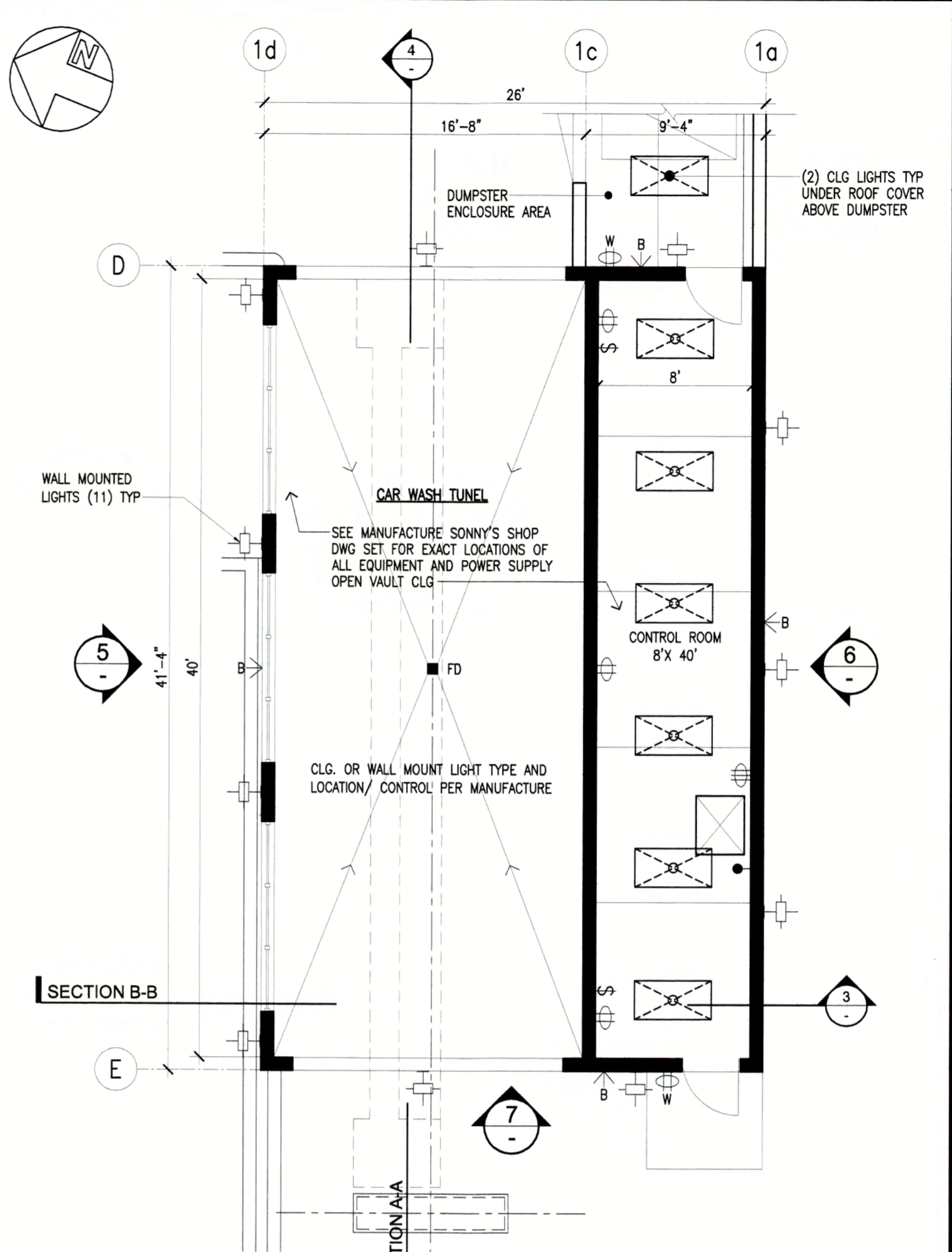
A BACK YARD FENCE



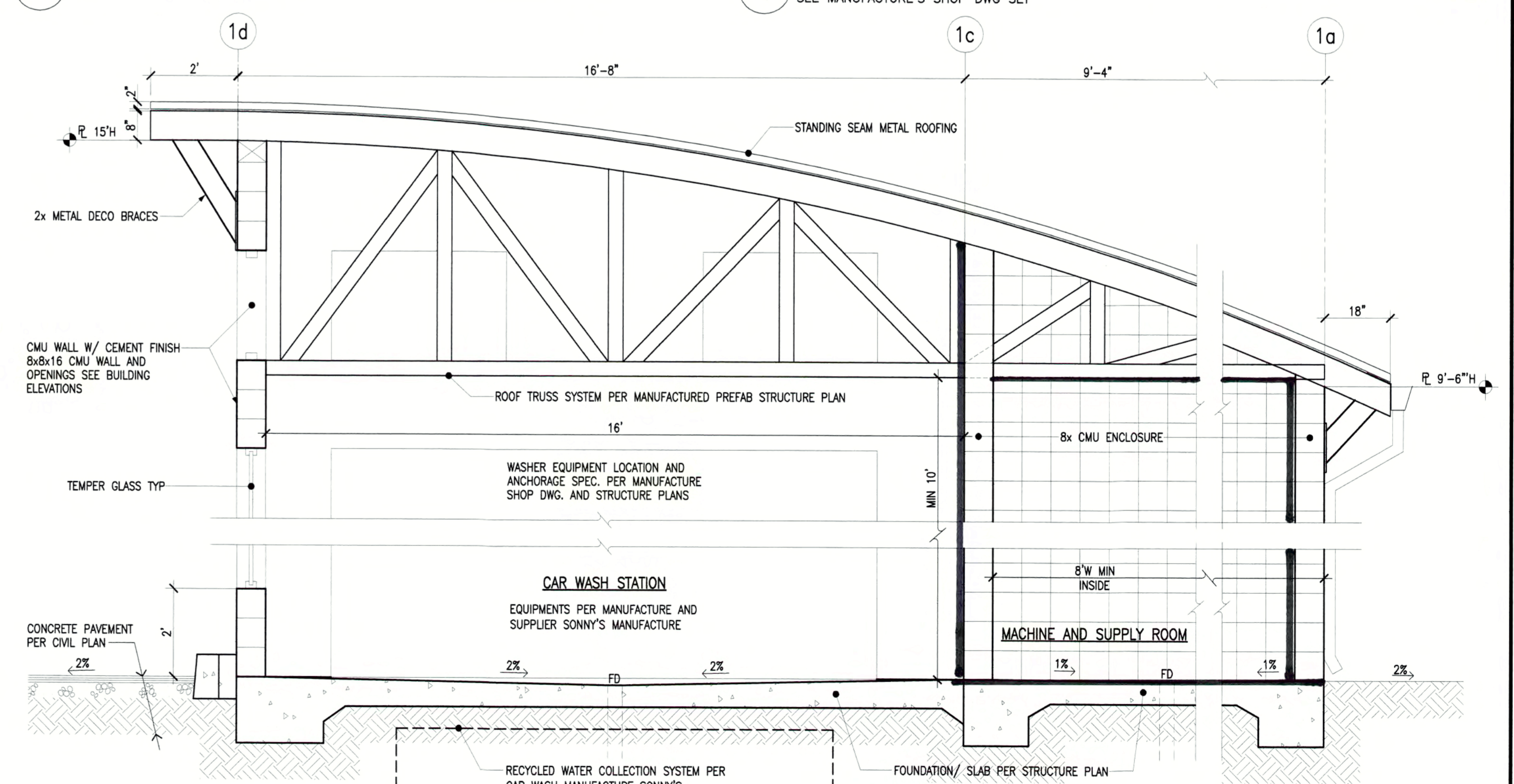
7 CAR WASH ENTRANCE ELEVATION 3/16"=1'



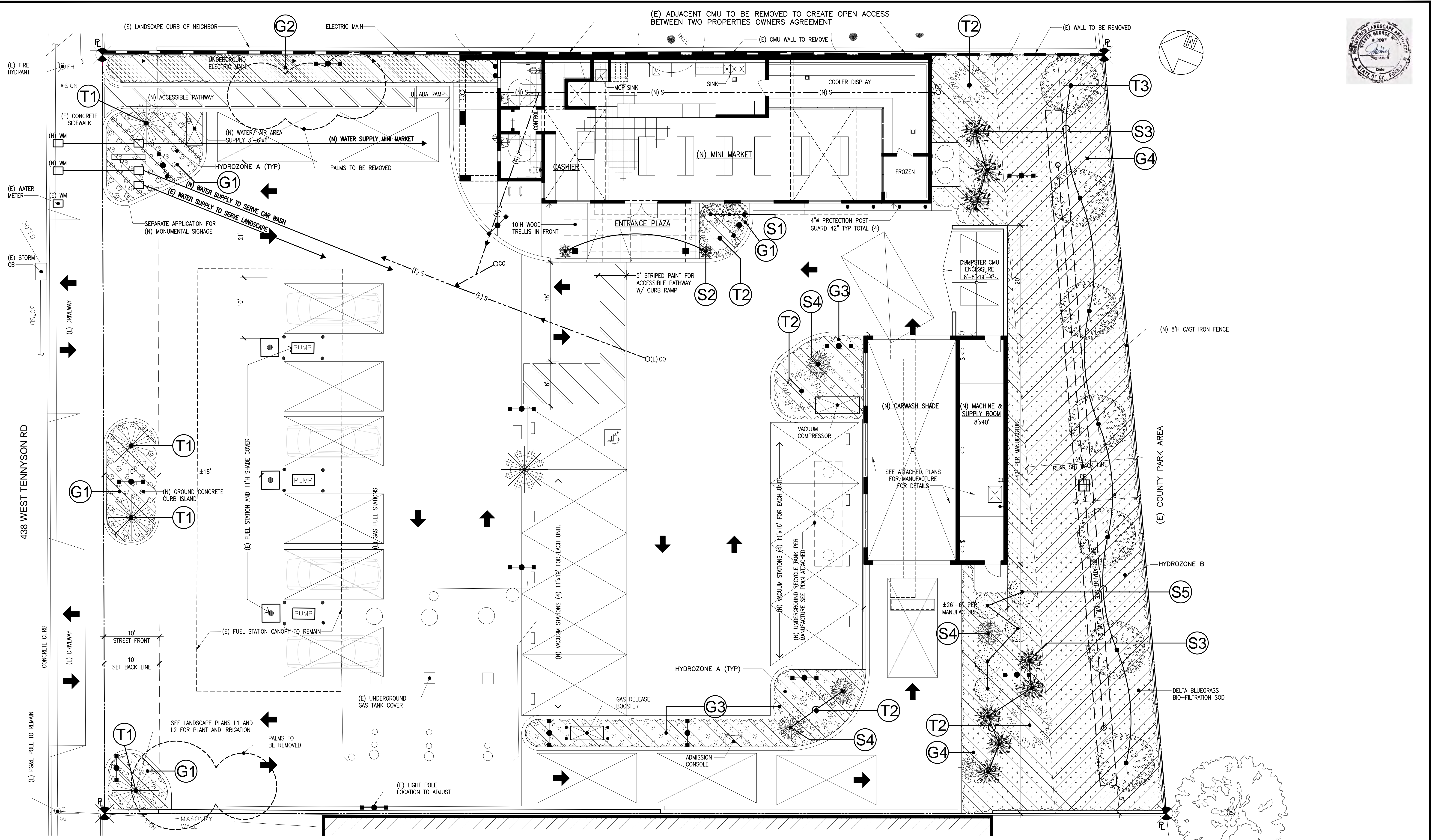
2 CAR WASH ROOF 3/16"=1'



1 CAR WASH SHELL AND REFLECT CEILING 3/16"=1'
 SEE MANUFACTURE'S SHOP DWG SET



3 CAR-WASHER SECTION B-B 1/2"=1'



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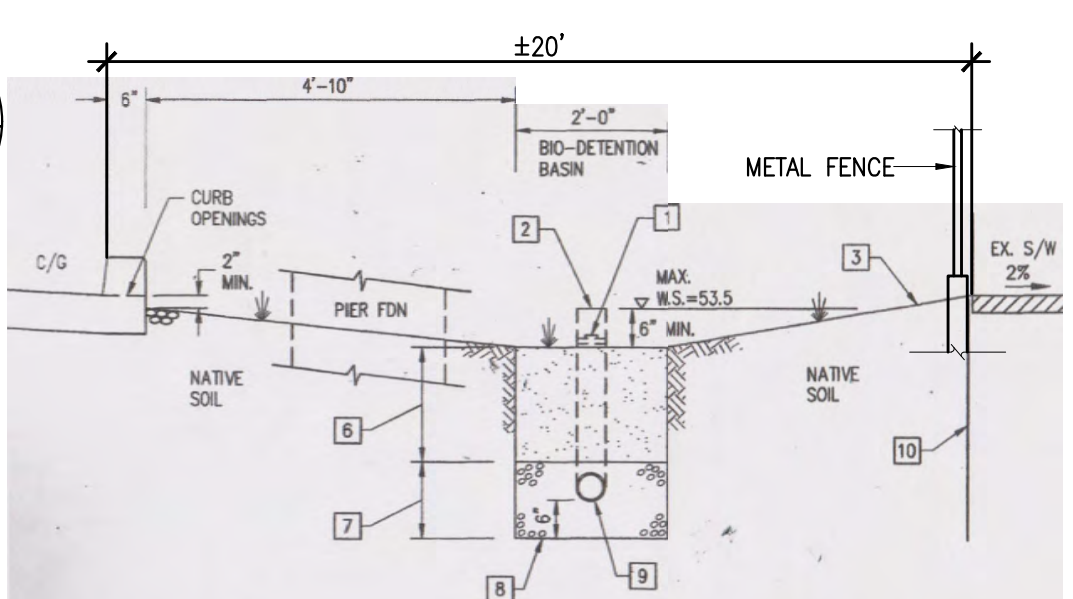
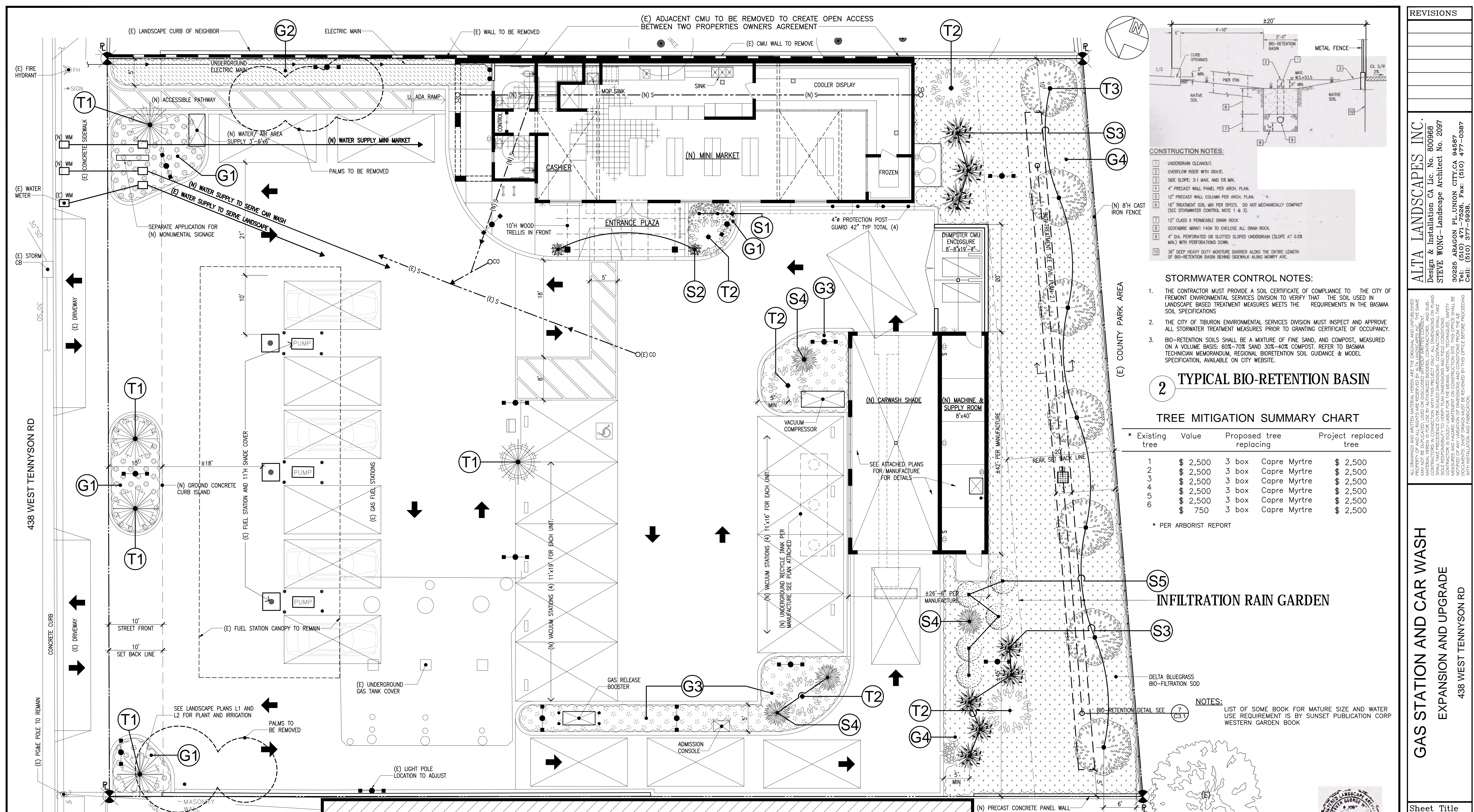
**GAS STATION AND CAR WASH
 EXPANSION AND UPGRADE
 438 WEST TENNYSON RD**

Sheet Title	CONCEPTUAL IRRIGATION PLAN
Date	05-20-18
Scale	AS SHOWN
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Job	
File	
Sheet	L2

LEGEND

- HYDROZONE A DRIP IRRIGATION
- HYDROZONE B LOW PRECIPITATION SPRAYS

1 CONCEPTUAL IRRIGATION PLAN 1/8"=1'



- CONSTRUCTION NOTES:**
- UNDERDRAIN CLEANSOUT.
 - OVERFLOW RISER WITH GRATE.
 - SIDE SLOPE: 3:1 MAX. AND 5% MIN.
 - 4" PRECAST WALL PANEL PER ARCH. PLAN.
 - 12" PRECAST WALL COLUMN PER ARCH. PLAN.
 - 18" TREATMENT SOIL MAX PER SPECS. DO NOT MECHANICALLY COMPACT (SEE STORMWATER CONTROL NOTE 1 & 3).
 - 12" CLASS II PERMEABLE DRAIN ROCK.
 - GEOTEXTILE MESH 140# TO ENCLOSE ALL DRAIN ROCK.
 - 4" DIA. PERFORATED OR SLOTTED UNDERDRAIN (SLOPE AT 0.5% MAX.) WITH PERFORATIONS DOWN.
 - 36" DEEP HEAVY DUTY MOISTURE BARRIER ALONG THE ENTIRE LENGTH OF BIO-RETENTION BASIN BEHIND SIDEWALK ALONG MOWERY AVE.

- STORMWATER CONTROL NOTES:**
- THE CONTRACTOR MUST PROVIDE A SOIL CERTIFICATE OF COMPLIANCE TO THE CITY OF FREMONT ENVIRONMENTAL SERVICES DIVISION TO VERIFY THAT THE SOIL USED IN LANDSCAPE BASED TREATMENT MEASURES MEETS THE REQUIREMENTS IN THE BASMAA SOIL SPECIFICATIONS.
 - THE CITY OF TIBURON ENVIRONMENTAL SERVICES DIVISION MUST INSPECT AND APPROVE ALL STORMWATER TREATMENT MEASURES PRIOR TO GRANTING CERTIFICATE OF OCCUPANCY.
 - BIO-RETENTION SOILS SHALL BE A MIXTURE OF FINE SAND, AND COMPOST, MEASURED ON A VOLUME BASIS: 60%-70% SAND 30%-40% COMPOST. REFER TO BASMAA TECHNICIAN MEMORANDUM, REGIONAL BIORETENTION SOIL GUIDANCE & MODEL SPECIFICATION, AVAILABLE ON CITY WEBSITE.

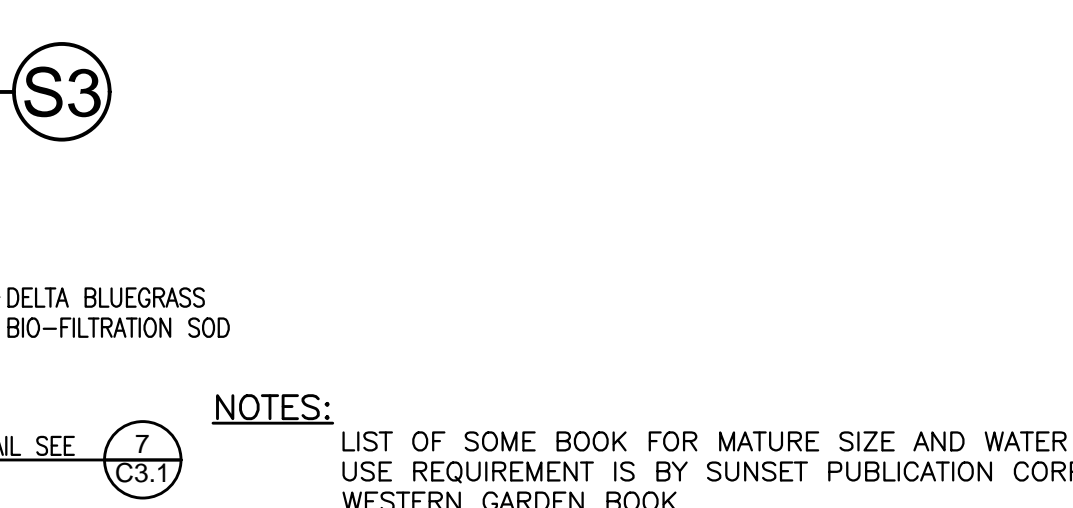
2 TYPICAL BIO-RETENTION BASIN

TREE MITIGATION SUMMARY CHART

* Existing tree	Value	Proposed tree replacing	Project replaced tree
1	\$ 2,500	3 box Capre Myrtle	\$ 2,500
2	\$ 2,500	3 box Capre Myrtle	\$ 2,500
3	\$ 2,500	3 box Capre Myrtle	\$ 2,500
4	\$ 2,500	3 box Capre Myrtle	\$ 2,500
5	\$ 2,500	3 box Capre Myrtle	\$ 2,500
6	\$ 750	3 box Capre Myrtle	\$ 2,500

* PER ARBORIST REPORT

INFILTRATION RAIN GARDEN



NOTES: LIST OF SOME BOOK FOR MATURE SIZE AND WATER USE REQUIREMENT IS BY SUNSET PUBLICATION CORP WESTERN GARDEN BOOK

PLANT LEGEND

Key	Size	Quan.	Botanical Name	Common Name	Mature Size	Plant space	Water Use Requirement
TREES:							
T1	36" Box	5	Trachycarpus fortunei	Windmill Palm	20-25"	20'	Low
T2	15 Gal	5	Lagerstroemia ind. "Catawba"	Crape Myrtle	15-20'	20'	Low
T3	15 Gal	7	Lagerstroemia ind. "Natchez"	Crape Myrtle	15-20'	20'	Low
SHRUBS:							
S1	5 Gal	4	Euryops pectinatus	Yellow Shrub Daisy	4'	4'	Low
S2	15 Gal	2	Bignonia cherere	Scarlet Trumpet Vine	20'	10'	Medium
S3	5 Gal	8	Echium fastuosum	Pride of Madeira	6"	6"	Low
S4	5 Gal	4	Phormium t. "Rainbow Warrior"	New Zealand Flax	6'	6'	Low

Key	Size	Quan.	Botanical Name	Common Name	Mature Size	Plant space	Water Use Requirement
SHRUBS:							
S5	5 Gal	5	Lavandula stoechess	Spanish Lavender	3'	4'	Low
GROUND COVERS:							
G1	1 Gal	4' o.c.	Lantana montevedensis	Lantana	2' ht. X 6'	4'	Low
G2	1 Gal	4' o.c.	Rosmarinus prostratus	Dwarf Rosemary	2' ht. X 6'	4'	Low
G3	1 Gal	4' o.c.	Cotoneaster "Lowfast"	Cotoneaster	1' ht. X 8'	4'	Low
G4	1 Gal	6' o.c.	Ceanothus h. "Yankee Point"	Wild Lilac	2-3' ht. X 8'	6'	Low
SOD: Delta Bluegrass "Bio-filtration Sod"							

1 LANDSCAPE PLAN 1/8"=1'

- NOTES:**
- MINIMUM DIMENSION FOR PLANTING AREA SHALL BE 5' MEASURED FROM BACK OF CURB/ PAVEMENT TO BACK OF CURB/ PAVEMENT
 - ALL PLANTS TO BE WATERED BY AUTOMATIC IRRIGATION SYSTEM.
 - ALL PLANTING AREAS TO RECEIVE 3" DEPTH BROWN SHREDDED MULCH
 - TOTAL LANDSCAPE AREA= 5,296 SF
LOT SIZE= 25,628 SF
PERCENTAGE OF LANDSCAPE= 5,296/ 25,628= 20%

REVISIONS

ALTA LANDSCAPES INC.
 Design & Installation CA Lic. No. 800968
 STEVE WONG - Landscape Architect No. 2097
 30225 ARAUCON PL., UNION CITY, CA 94587
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GAS STATION AND CAR WASH EXPANSION AND UPGRADE
 438 WEST TENNYSON RD

Sheet Title
 CONCEPTUAL LANDSCAPE
 Date 05-20-18
 Scale AS SHOWN
 Drawn
 Job
 File
 Sheet **L1**



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GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD.
HAYWARD, CALIFORNIA
ALAMEDA COUNTY APN: 465-0001-002

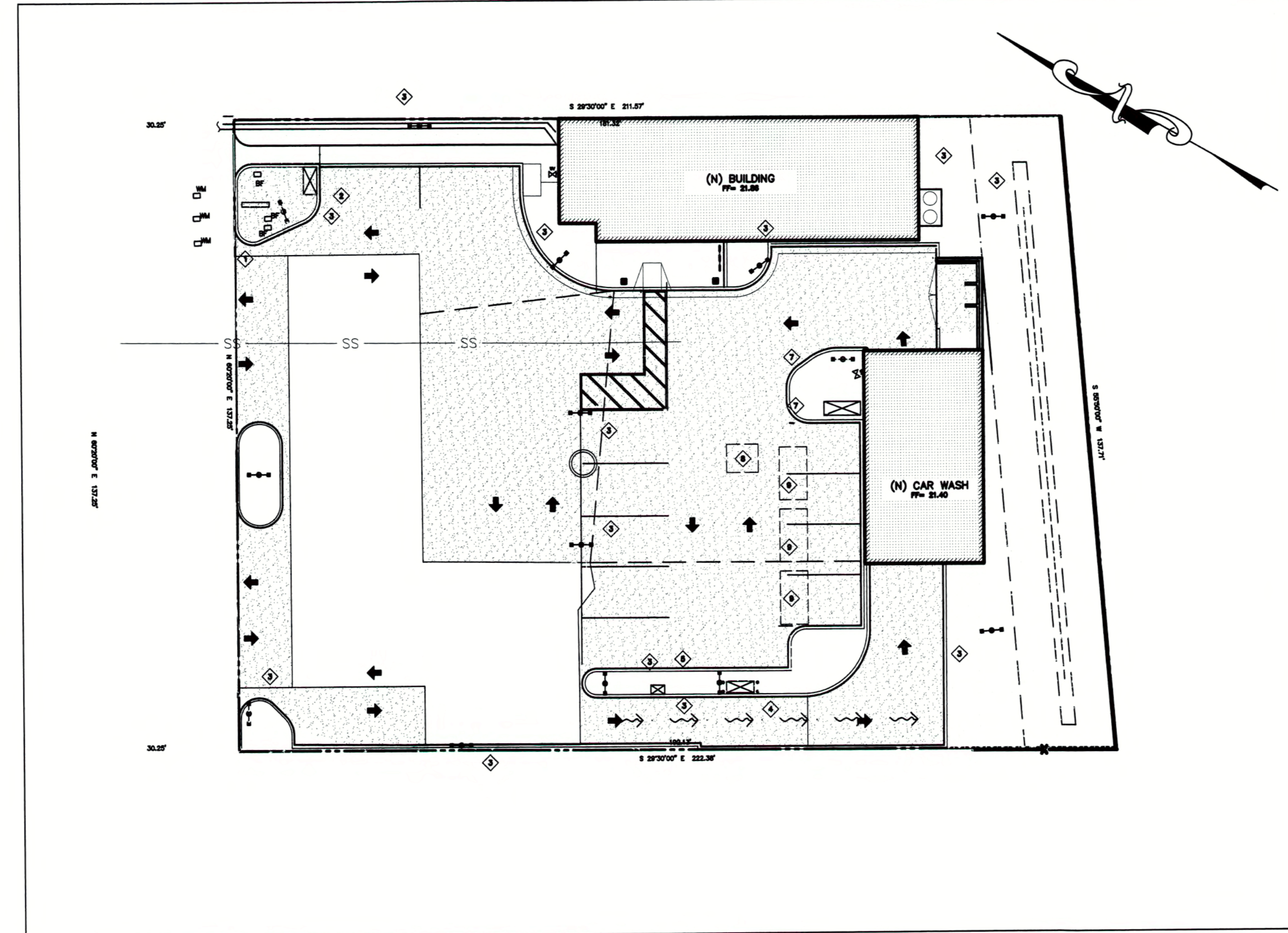
TITLE SHEET

REVISIONS	BY
JOB NO:	216026
DATE:	3-14-18
SCALE:	AS NOTED
DESIGN BY:	WCC
DRAWN BY:	DR
SHEET NO:	
CO.1	

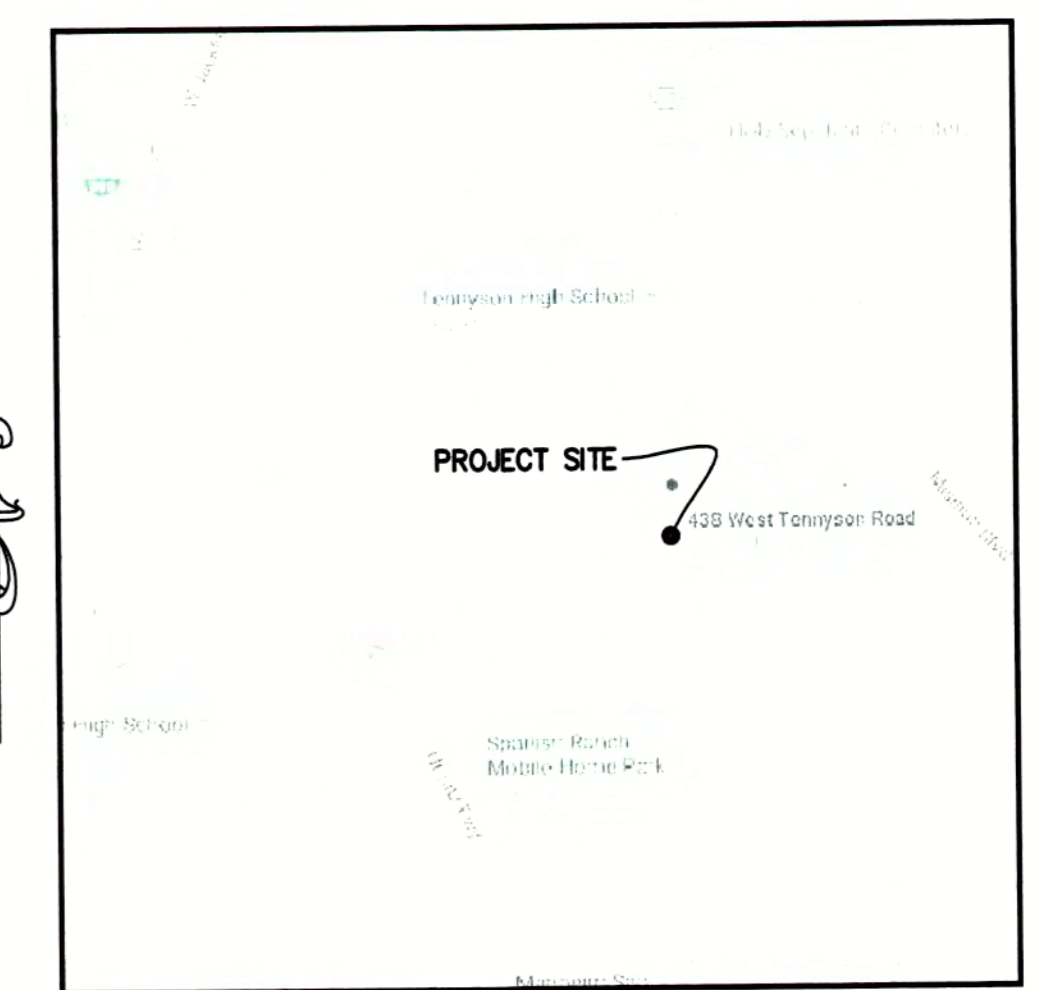
GAS STATION AND CAR WASH EXPANSION AND UPGRADE 438 WEST TENNYSON RD. HAYWARD, CALIFORNIA

EXISTING	PROPOSED	DESCRIPTION
---	---	BOUNDARY
---	---	PROPERTY LINE
---	---	RETAINING WALL
---	---	LANDSCAPE RETAINING WALL
---	---	SUBDRAIN LINE
---	---	TIGHTLINE
---	SD	STORM DRAIN LINE
---	SS	SANITARY SEWER LINE
---	W	WATER LINE
---	G	GAS LINE
---	P	PRESSURE LINE
---	JT	JOINT TRENCH
---	---	SET BACK LINE
---	---	CONCRETE VALLEY GUTTER
---	---	EARTHEN SWALE
CB	CB	CATCH BASIN
JB	JB	JUNCTION BOX
AD	AD	AREA DRAIN
SDMH	SDMH	CURB INLET
SSMH	SSMH	STORM DRAIN MANHOLE
SSMH	SSMH	FIRE HYDRANT
SSMH	SSMH	SANITARY SEWER MANHOLE
222.57 INV	222.57 INV	STREET SIGN
---	---	SPOT ELEVATION
---	---	FLOW DIRECTION
D	D	DEMOLISH/REMOVE
---	---	BENCHMARK
---	---	CONTOURS
---	---	TREE TO BE REMOVED
---	---	SWALE
---	---	DIRECTIONAL PAINT ARROW
---	---	CLEAN OUT TO GRADE

ABBREVIATIONS		
AB	AGGREGATE BASE	LF
AC	ASPHALT CONCRETE	MAX
ACC	ACCESSIBLE	MH
AD	AREA DRAIN	MIN
BC	BEGINNING OF CURVE	MON.
B & D	BEARING & DISTANCE	(N)
BM	BENCHMARK	NO.
BW/FG	BOTTOM OF WALL/FINISH	NTS
GRADE		O.C.
CB	CATCH BASIN	O/
C & G	CURB AND GUTTER	P.A.
C	CENTER LINE	PE
CPP	CORRUGATED PLASTIC PIPE (SMOOTH INTERIOR)	PIV
CO	CLEANOUT	PSS
COTG	CLEANOUT TO GRADE	R
CONC	CONCRETE	PP
CONST	CONSTRUCT or -TION	PUE
CONC COR	CONCRETE CORNER	PVC
CY	CUBIC YARD	R
D	DIAMETER	RCP
DI	DROP INLET	RIM
DIP	DUCTILE IRON PIPE	RW
EA	EACH	R/W
EC	END OF CURVE	S
EG	EXISTING GRADE	S.D.
EL	ELEVATIONS	SAN
EP	EDGE OF PAVEMENT	SD
EQ	EQUIPMENT	SDMH
EW	EACH WAY	SHT
(E)	EXISTING	S.L.D.
FC	FACE OF CURB	SPEC
FF	FINISHED FLOOR	SS
FG	FINISHED GRADE	SSCO
FH	FIRE HYDRANT	SSMH
FL	FLOW LINE	ST
FS	FINISHED SURFACE	STA
G	GAS	STD
GA	GAGE OR GAUGE	STRUCT
GB	GRADE BREAK	T
HDPE	HIGH DENSITY CORRUGATED POLYETHYLENE PIPE	TC
HORIZ	HORIZONTAL	TEMP
HI PT	HIGH POINT	TP
H&T	HUB & TACK	TS
ID	INSIDE DIAMETER	TW/FG
INV	INVERT ELEVATION	TYP
JB	JUNCTION BOX	VC
JT	JOINT TRENCH	VCP
JP	JOINT UTILITY POLE	VERT
L	LENGTH	W/
LNDG	LANDING	W, WL
		WM
		WWF
		LINEAL FEET
		MAXIMUM
		MANHOLE
		MINIMUM
		MONUMENT
		NEW
		NUMBER
		NOT TO SCALE
		ON CENTER
		OVER
		PLANTING AREA
		PEDESTRIAN
		POST INDICATOR VALVE
		PUBLIC SERVICES EASEMENT
		PROPERTY LINE
		POWER POLE
		PUBLIC UTILITY EASEMENT
		POLYVINYL CHLORIDE
		RADIUS
		REINFORCED CONCRETE PIPE
		RIM ELEVATION
		RAINWATER
		RIGHT OF WAY
		SLOPE
		SEE ARCHITECTURAL DRAWINGS
		SANITARY
		STORM DRAIN
		STORM DRAIN MANHOLE
		SHEET
		SEE LANDSCAPE DRAWINGS
		SANITARY SEWER
		SANITARY SEWER CLEANOUT
		SANITARY SEWER MANHOLE
		STREET
		STATION
		STANDARD
		STRUCTURAL
		TELEPHONE
		TOP OF CURB
		TEMPORARY
		TOP OF PAVEMENT
		TOP OF SLOPE
		TOP OF WALL/FINISH GRADE
		TYPICAL
		VERTICAL CURVE
		VITRIFIED CLAY PIPE
		VERTICAL
		WITH
		WATER LINE
		WATER METER
		WELDED WIRE FABRIC



KEY MAP
1" = 20'



VICINITY MAP
NTS

REFERENCES

- THIS GRADING AND DRAINAGE PLAN IS SUPPLEMENTAL TO:
1. TOPOGRAPHIC SURVEY BY DAIS LAND SURVEYING, ENTITLED: "TOPOGRAPHIC SURVEY PLAN" 438 WEST TENNYSON ROAD HAYWARD CALIFORNIA, USA DATED: 3-10-15 JOB# 2015027564
 2. SITE PLAN BY KC ASSOCIATES ENTITLED: "GAS STATION AND CAR WASH" EXPANSION AND UPGRADE 438 WEST TENNYSON ROAD HAYWARD CALIFORNIA, USA
- THE CONTRACTOR SHALL REFER TO THE ABOVE NOTED SURVEY AND PLAN, AND SHALL VERIFY BOTH EXISTING AND PROPOSED ITEMS ACCORDING TO THEM.

* BUILDING PAD NOTE:
ADJUST PAD LEVEL AS
REQUIRED. REFER TO
STRUCTURAL PLANS
FOR SLAB SECTION OR
CRAWL SPACE DEPTH
TO ESTABLISH PAD
LEVEL.



SHEET INDEX

C0.1	TITLE SHEET
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C2.1	GRADING & DRAINAGE PLAN
C3.1	DETAILS
C3.2	DETAILS
C4.1	EROSION CONTROL
C4.2	EROSION CONTROL DETAILS
C4.3	BEST MANAGEMENT PRACTICES (SWPPP)



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**GAS STATION AND CAR WASH
 EXPANSION AND UPGRADE
 438 WEST TENNYSON RD.
 HAYWARD, CALIFORNIA**
 ALAMEDA COUNTY APN: 465-0001-002

**GRADING
 SPECIFICATIONS**

GENERAL SITE NOTES:

- CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING ON THIS WORK AND CONSIDER THE EXISTING CONDITIONS AND SITE CONSTRAINTS IN THE BID. CONTRACTOR SHALL BE IN THE POSSESSION OF AND FAMILIAR WITH ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS AND SPECIFICATIONS PRIOR TO SUBMITTING OF A BID.
- ALL WORK IN THE PUBLIC RIGHT-OF-WAY SHALL CONFORM TO ALL APPLICABLE GOVERNING AGENCIES STANDARD DETAILS & SPECIFICATIONS.
- PRIOR TO BEGINNING WORK, AND AFTER INITIAL HORIZONTAL CONTROL STAKING, CONTRACTOR SHALL FIELD CHECK ALL ELEVATIONS MARKED WITH (E) AND REPORT ANY DISCREPANCIES GREATER THAN 0.05' TO OWNER'S PROJECT MANAGER AND CIVIL ENGINEER.
- DAMAGE TO ANY EXISTING SITE IMPROVEMENTS, UTILITIES AND/OR SERVICES TO REMAIN SHALL BE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL REPAIR AND/OR REPLACE IN KIND.
- CONTRACTOR SHALL REPLACE ALL STRUCTURES AND GRATE LIDS FOR VAULTS, CATCH BASINS, ETC., WITH VEHICULAR-RATED STRUCTURES IN ALL TRAFFIC ACCESSIBLE AREAS WITHIN NEW CONSTRUCTION AREA UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL ADJUST TO FINAL GRADE ALL EXISTING AND/OR NEW MANHOLES, CURB INLETS, CATCH BASIN, VALVES, MONUMENT COVERS, AND OTHER CASTINGS WITHIN THE CONSTRUCTION AREA TO FINAL GRADE IN PAVEMENT AND LANDSCAPE AREAS UNLESS OTHERWISE NOTED.
- CONTRACTOR AGREES THAT HE SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT INCLUDING SAFETY OF ALL PERSONS AND PROPERTY THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT TO BE LIMITED TO NORMAL WORKING HOURS AND THAT THE CONTRACTOR SHALL DEFEND INDEMNIFY AND HOLD THE OWNER, THE CONSULTING ENGINEER AND THE CITY HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT. EXCEPTING FOR LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE OWNER OR THE CONSULTING ENGINEER.
- EXISTING PEDESTRIAN WALKWAYS, BIKE PATHS AND ACCESSIBLE PATHWAYS SHALL BE MAINTAINED, WHERE FEASIBLE, DURING CONSTRUCTION.
- IF A CONFLICT ARISES BETWEEN THE SPECIFICATIONS AND THE PLANS NOTES, THE MORE STRINGENT REQUIREMENT SHALL GOVERN.
- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY REQUIRED PERMITS AND COSTS ASSOCIATED WITH SAID PERMITS

TREE/PLANT PROTECTION NOTES:

- PRIOR TO BEGINNING CONSTRUCTION ON SITE, CONTRACTOR SHALL IDENTIFY, CONFIRM WITH OWNER AND PROTECT EXISTING TREES AND PLANTS DESIGNATED AS TO REMAIN.
- PROVIDE 5 FOOT TALL TREE PROTECTION FENCE WITH DISTINCTIVE MARKING VISIBLE TO CONSTRUCTION EQUIPMENT, ENCLOSING DRIP LINES OF TREES DESIGNATED TO REMAIN.
- WORK REQUIRED WITHIN FENCE LINE SHALL BE HELD TO A MINIMUM, AVOID UNNECESSARY MOVEMENT OF HEAVY EQUIPMENT WITHIN FENCED AREA AND DO NOT PARK ANY VEHICLES UNDER DRIP LINE OR TREES. DO NOT STORE EQUIPMENT OR MATERIALS WITHIN FENCE LINE.
- PRIOR TO REMOVING ROOTS AND BRANCHES LARGER THAN 2" IN DIAMETER OF TREES OR PLANTS THAT ARE TO REMAIN, CONSULT WITH THE OWNER'S PROJECT MANAGER.
- ANY GRADE CHANGES GREATER THAN 6" WITHIN THE DRIPLINE OF EXISTING TREES SHALL NOT BE MADE WITHOUT FIRST CONSULTING THE ARCHITECT / CIVIL ENGINEER.
- PROTECT EXISTING TREES TO REMAIN FROM SPILLED CHEMICALS, FUEL OIL, MOTOR OIL, GASOLINE AND ALL OTHER CHEMICALLY INJURIOUS MATERIALS; AS WELL AS FROM PUDDLING OR CONTINUOUSLY RUNNING WATER. SHOULD A SPILL OCCUR, STOP WORK IN THAT AREA AND CONTACT THE INSPECTOR IMMEDIATELY. CONTRACTOR SHALL BE RESPONSIBLE TO MITIGATE DAMAGE FROM SPILLED MATERIAL AS WELL AS MATERIAL CLEAN UP.
- PROVIDE TEMPORARY IRRIGATION TO ALL TREES AND PLANTS THAT ARE IN OR ADJACENT TO CONSTRUCTION AREAS WHERE EXISTING IRRIGATION SYSTEMS MAY BE AFFECTED BY THE CONSTRUCTION. ALSO PROVIDE TEMPORARY IRRIGATION TO RELOCATE TREES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ONGOING MAINTENANCE OF ALL TREES AND PLANTS DESIGNATED TO REMAIN AND FOR MAINTENANCE OF RELOCATED TREES STOCKPILED DURING CONSTRUCTION. CONTRACTOR WILL BE REQUIRED TO REPLACE TREES OR PLANTS THAT DIE DUE TO LACK OF MAINTENANCE.
- TREE PROTECTION ZONES NEED TO BE SET UP WITH FENCING AROUND TREES TO A MINIMUM DISTANCE OF 10 FEET FROM THE BUTTRESS FLAIR. NO EQUIPMENT, MATERIALS STORAGE, OR DIGGING IS ALLOWED WITHIN THE TREE PROTECTION ZONE WITHOUT WRITTEN AUTHORIZATION FROM THE PROJECT ARBOHIST, ARBOHIST SUPERVISOR OR AUTHORIZED DESIGNATE. ANY AUTHORIZED DIGGING WITHIN THE TREE PROTECTION ZONE MUST BE DONE BY HAND; I.E. PICK AND SHOVEL. CARE MUST BE TAKEN TO AVOID SEVERING ANY STRUCTURAL ROOTS. ANY ROOTS GREATER THAN 2" IN DIAMETER INCIDENTALLY SEVERED, WHETHER INSIDE OR OUTSIDE OF THE TREE PROTECTION ZONE, WILL NEED TO BE BROUGHT TO THE ATTENTION OF AND INSPECTED BY THE PROJECT ARBOHIST, ARBOHIST SUPERVISOR OR AUTHORIZED DESIGNATE; WHO WILL EVALUATE THE TREE IN QUESTION FOR IMPACTS TO BOTH LONG TERM HEALTH AND STABILITY. ANY ROOT SEVERANCE CONCLUDED TO COMPROMISE TREE STABILITY/SAFETY MAY RESULT IN TREE REMOVAL. ANY COSTS RESULTING FROM TREE REMOVALS WILL BE CHARGED TO THE PROJECT IN QUESTION. ANY COSTS FROM TREE REMOVALS RESULTING FROM VIOLATIONS OF THE COUNTY CODES WILL BE ABSORBED BY THE CONTRACTOR UP TO AND INCLUDING ANY FINES LEVIED BY THE COUNTY.

SITE MAINTENANCE:

- REMOVE ALL DIRT, GRAVEL, RUBBISH, REFUSE, AND GREEN WASTE FROM STREET PAVEMENT AND STORM DRAINS ADJOINING THE SITE. LIMIT CONSTRUCTION ACCESS ROUTES ONTO THE SITE AND PLACE GRAVEL PADS AT THESE LOCATIONS. DO NOT DRIVE VEHICLES AND EQUIPMENT OFF THE PAVED OR GRAVELED AREAS DURING WET WEATHER.
- SWEEP OR VACUUM THE STREET PAVEMENT AND SIDEWALKS ADJOINING THE PROJECT SITE AND THE ON-SITE PAVED AREAS ON A DAILY BASIS. SCRAPE CAKED-ON MUD AND DIRT FROM THESE AREAS BEFORE SWEEPING. CORNERS AND HARD TO REACH AREAS SHALL BE SWEEPED MANUALLY.
- CONTRACTOR SHALL: GATHER ALL CONSTRUCTION DEBRIS ON A REGULAR BASIS AND PLACE IT IN A DUMPSTER OR OTHER CONTAINER WHICH IS EMPTIED OR REMOVED ON A REGULAR BASIS. WHEN APPROPRIATE, USE TARPS ON THE GROUND TO COLLECT FALLEN DEBRIS OR SPLATTERS THAT COULD CONTRIBUTE TO STORM WATER RUNOFF POLLUTION.
- IF THE STREET, SIDEWALKS AND/OR PARKING LOT ARE PRESSURE WASHED, DEBRIS MUST BE TRAPPED AND COLLECTED TO PREVENT ENTRY INTO THE STORM DRAIN SYSTEM. NO CLEANING AGENT MAY BE DISCHARGED INTO THE STORM DRAIN. IF ANY CLEANING AGENT OR DEGREASER IS USED, WASHED WATER MUST BE COLLECTED AND DISCHARGED TO THE SANITARY SEWER, SUBJECT TO THE APPROVAL OF THE OWNER'S PROJECT MANAGER, OR OTHERWISE DISPOSED OF THROUGH APPROVED DISPOSAL METHODS.
- CREATE A CONTAINED AND COVERED AREA ON THE SITE FOR THE STORAGE OF BAGS, CEMENT, PAINTS, OILS, FERTILIZERS, PESTICIDES, OR OTHER MATERIAL USED ON THE SITE THAT HAVE THE POTENTIAL OF BEING WIND-BLOWN OR IN THE EVENT OF A MATERIAL SPILL.
- NEVER CLEAN MACHINERY, EQUIPMENT OR TOOLS INTO A STREET, GUTTER OR STORM DRAIN.
- ENSURE THAT CEMENT TRUCKS, PAINTERS, OR STUCCO/PLASTER FINISHING CONTRACTORS DO NOT DISCHARGE WASH WATER FROM EQUIPMENT, TOOLS OR RINSE CONTAINERS INTO GUTTERS OR DRAINS.
- THE ON-SITE STORM DRAIN FACILITIES SHALL BE CLEANED A MINIMUM OF TWICE A YEAR AS FOLLOWS: IMMEDIATELY PRIOR TO OCTOBER 15TH AND ONCE IN JANUARY. ADDITIONAL CLEANING MAY BE REQUIRED IF FOUND NECESSARY BY THE INSPECTOR. CONTRACTOR SHALL BE RESPONSIBLE FOR COST ASSOCIATED WITH CLEANING.
- PREVENT DUST FROM LEAVING THE SITE AND ACCUMULATING ON ADJACENT AREAS AS REQUIRED IN THE DUST CONTROL NOTES ON THIS SHEET.
- PREVENT SEDIMENT LADEN STORM RUN-OFF FROM LEAVING THE SITE OR ENTERING STORM DRAIN OR SANITARY SEWER SYSTEMS AS REQUIRED IN THE EROSION AND SEDIMENTATION CONTROL NOTES ON THIS SHEET.
- MAINTAIN EXISTING TREES AND PLANTS THAT ARE TO REMAIN AS REQUIRED BY THE TREE AND PLANT PROTECTION NOTES ON THE SHEET.

STORMWATER POLLUTION PREVENTION NOTES:

- STORE, HANDLE, AND DISPOSE OF CONSTRUCTION MATERIALS AND WASTES PROPERLY, SO AS TO PREVENT THEIR CONTACT WITH STORMWATER.
- CONTROL AND PREVENT THE DISCHARGE OF ALL POTENTIAL POLLUTANTS, INCLUDING SOLID WASTES, PAINTS, CONCRETE, PETROLEUM PRODUCTS, CHEMICALS, WASHWATER OR SEDIMENT, AND NON-STORMWATER DISCHARGES TO STORM DRAINS AND WATER COURSES.
- USE SEDIMENT CONTROL OR FILTRATION TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- AVOID CLEANING, FUELING, OR MAINTAINING VEHICLES ON SITE, EXCEPT IN A DESIGNATED AREA IN WHICH RUNOFF IS CONTAINED AND TREATED.
- DELINEATE CLEARING LIMITS, EASEMENTS, SETBACKS, SENSITIVE OR CRITICAL AREAS, BUFFER ZONES, TREES AND DISCHARGE COURSE WITH FIELD MARKERS.
- PROTECT ADJACENT PROPERTIES AND UNDISTURBED AREAS FROM CONSTRUCTION IMPACTS USING VEGETATIVE BUFFER STRIPS, SEDIMENT BARRIERS OF FILTERS, DIKES, MULCHING, OR OTHER MEASURES AS APPROPRIATE.
- PERFORM CLEARING AND EARTH MOVING ACTIVITIES DURING DRY WEATHER TO THE MAXIMUM EXTENT PRACTICAL.
- LIMIT AND TIME APPLICATIONS OF PESTICIDES AND FERTILIZERS TO PREVENT POLLUTED RUNOFF.
- LIMIT CONSTRUCTION ACCESS ROUTES AND STABILIZE DESIGNATED ACCESS POINTS.
- AVOID TRACKING DIRT OR MATERIALS OFF-SITE; CLEAN OFF-SITE PAVED AREAS AND SIDEWALKS USING DRY SWEEPING METHODS TO THE MAXIMUM EXTENT PRACTICAL.

SUPPLEMENTAL MEASURES

- THE PHRASE "NO DUMPING - DRAINS TO BAY" OR EQUALLY EFFECTIVE PHRASE MUST BE LABELED ON STORM DRAIN INLETS (BY STENCILING, BRANDING, OR PLAQUES) TO ALERT THE PUBLIC TO THE DESTINATION OF STORM WATER AND TO PREVENT DIRECT DISCHARGE OF POLLUTANTS INTO THE STORM DRAIN.
- USING FILTRATION MATERIALS ON STORM DRAIN COVERS TO REMOVE SEDIMENT FROM DEWATERING EFFLUENT.
- STABILIZING ALL DENUDEED AREAS AND MAINTAINING EROSION CONTROL MEASURES CONTINUOUSLY FROM OCTOBER 15 AND APRIL 15.
- REMOVING SPOILS PROMPTLY, AND AVOID STOCKPILING OF FILL MATERIALS. WHEN RAIN IS FORECAST. IF RAIN THREATENS, STOCKPILED SOILS AND OTHER MATERIALS SHALL BE COVERED WITH A TARP OR OTHER WATERPROOF MATERIAL.
- STORING, HANDLING, AND DISPOSING OF CONSTRUCTION MATERIALS AND WASTES SO AS TO AVOID THEIR ENTRY TO THE STORM DRAIN SYSTEMS OR WATER BODY.
- AVOIDING CLEANING, FUELING, OR MAINTAINING VEHICLES ON-SITE, EXCEPT IN AN AREA DESIGNATED TO CONTAIN AND TREAT RUNOFF.
- LIMITING AND TIMING APPLICATIONS OF PESTICIDES AND FERTILIZER TO AVOID POLLUTING RUNOFF.

WATER SYSTEM NOTES:

- WHERE WATER LINES HAVE TO CROSS SANITARY SEWER LINES, DO SO AT A 90 DEGREE ANGLE AND WATER LINES SHALL BE MINIMUM OF 12" ABOVE THE TOP OF THE SANITARY SEWER LINES.
- WATER LINES ARE SHOWN SCHEMATICALLY; CONTRACTOR SHALL IDENTIFY EACH ANGLE AND/OR BEND THAT MAY BE REQUIRED TO ACCOMPLISH THE INTENDED DESIGN.
- USE DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6" BELOW THE SURFACE, TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION-WATER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
- ALL WATER SERVICE CONNECTIONS SHALL BE INSTALLED IN ACCORDANCE WITH THE CITY OR APPLICABLE WATER DISTRICT STANDARDS.
- PUBLIC AND PRIVATE WATER MAIN AND WATER SERVICE LINE 4-INCH THROUGH 12-INCH SHALL BE POLYVINYL CHLORIDE (PVC) AND SHALL MEET AWWA C900, RATED FOR 200 PSI. GLASS PIPE WITH EPOXY COATED DUCTILE IRON FITTINGS AND FUSION EPOXY COATED GATE VALVES. ALL JOINTS SHALL FACTORY MANUFACTURED WITH BELL AND SPIGOT ENDS AND RUBBER GASKETS. NONMETALLIC WATER LINES HAVE TRACER WIRE INSTALLED.
- CONNECTION TO THE EXISTING WATER MAIN SHALL BE APPROVED BY WATER COMPANY. THE DISTRICT SHALL PAY THE ACTUAL COSTS OF CONSTRUCTION. THE CONTRACTOR SHALL PERFORM ALL EXCAVATION PREPARE THE SITE, FURNISH ALL MATERIALS, INSTALL TAPPING TEE VALVE AND ALL THRUST BLOCKS. BACKFILL, RESTORE THE SURFACE, AND CLEANUP. ALL WET TAPS SHALL BE APPROVED BY THE CITY OR APPLICABLE WATER DISTRICT. NONMETALLIC WATER LINES SHALL HAVE TRACER WIRES INSTALLED.
- ALL WATER LINES 3" OR SMALLER SHALL BE TYPE K COPPER WITH SILVER BRAZED JOINTS. POLYETHYLENE PIPE MAY BE SUBSTITUTED, CONTRACTOR SHOULD SEEK APPROVAL FROM DISTRICT BEFORE MAKING SUBSTITUTION. CONTRACTOR TO VERIFY PRESSURES FROM EXISTING LINES ARE ADEQUATE TO SERVICE BUILDINGS AS SPECIFIED BY THE PLUMBING PLANS.
- ALL WATER LINES SHALL BE INSTALLED WITH 3' MINIMUM COVER.
- ALL WATER VALVES SHALL BE PER CITY STANDARD.
- ALL TEMPORARY AND/OR PERMANENT AIR-RELEASE AND BLOW-OFF VALVES SHALL BE PER CITY STANDARD AND AS DIRECTED BY THE CITY ENGINEER.
- CONCRETE THRUST BLOCKS SHALL BE INSTALLED AT ALL TEES, CROSSINGS, BENDS (HORIZONTAL AND VERTICAL), AT SIZE CHANGES AND AT FIRE HYDRANTS PER CITY STANDARD. AWWA C800, SECTION 3.8 UNLESS NOTED OTHERWISE.
- MECHANICALLY RESTRAINED JOINTS SHALL BE INSTALLED AT VERTICAL BENDS IN ACCORDANCE WITH CITY STANDARDS AND AS APPROVED BY THE CITY ENGINEER.
- ALL WATER VALVES SHALL BE CLUSTERED, UNLESS OTHERWISE DIRECTED BY THE CITY ENGINEER.

STORM DRAIN NOTES:

- ALL STORM DRAIN PIPE SHALL BE PVC PER SECTION 02630, SLOPED AT 2% UNLESS OTHERWISE SPECIFIED ON THE PLANS. PIPE SHALL BE SIZED AS SPECIFIED ON THE PLANS. ALL DIRECTION CHANGES SHALL BE MADE WITH A Y CONNECTION OR LONG SWEEP ELBOWS, REGULAR ELBOWS, AND TEE'S SHOULD BE AVOIDED.
- USE DETECTABLE METALIZED WARNING TAPE APPROXIMATE 6" BELOW THE SURFACE. TAPE SHALL BE A BRIGHT COLOR AND IMPRINTED WITH "CAUTION- STORM DRAIN LINE BELOW", CALPICO TYPE 2 OR EQUAL.
- PAINT THE TOP OF THE CURBS ADJACENT TO EACH CATCH BASIN INSTALLED UNDER THE WORK OR ADJACENT TO THIS SITE WITH THE WORDS "NO DUMPING". WORDING TO BE BLUE 4" HIGH LETTERS ON A PAINTED WHITE BACKGROUND. A " NO DUMPING"
- ALL AREA DRAINS AND CATCH BASINS GRATES WITHIN PEDESTRIAN ACCESSIBLE AREAS SHALL MEET ADA REQUIREMENTS AND HAVE BOLT DOWN GRATES.
- ALL TRENCHES SHALL BE BACKFILLED PER THE SPECIFICATIONS OF THE CIVIL ENGINEER TO VERIFY COMPACTION VALUES.
- FOR GRAVITY FLOW SYSTEMS CONTRACTOR SHALL VERIFY (POTHOLE IF NECESSARY) SIZE, MATERIAL, LOCATION AND DEPTH OF ALL SYSTEMS THAT ARE TO BE CONNECTED TO OR CROSSED PRIOR TO TRENCH OR INSTALLATION OF ANY GRAVITY FLOW SYSTEM.
- COMPLETE SYSTEMS; ALL UTILITY SYSTEMS ARE DELINEATED IN SCHEMATIC MANNER ON THESE PLANS. CONTRACTOR IS TO PROVIDE ALL FITTINGS, ACCESSORIES, AND WORK NECESSARY TO COMPLETE THE UTILITY SYSTEM SO THAT IT IS FULLY FUNCTIONING FOR THE PURPOSE INTENDED.

SANITARY SEWER NOTES:

- INSTALL DETECTABLE METALIZED WARNING TAPE APPROXIMATELY 6"-12" BELOW THE SURFACE IN NON-PAVED AREAS, AND AT THE BOTTOM OF BASEROCK FOR PAVED AREAS. GREEN IMPRINTED WITH "CAUTION-SANITARY SEWER LINE BELOW", CALPICO TYPE 2 OR EQUAL.
- ALL SEWER WORK SHALL BE IN CONFORMANCE WITH THE CITY OR APPROPRIATE SANITARY SEWER DISTRICT.
- PUBLIC AND PRIVATE SANITARY SEWER MAIN AND SERVICE LINE 4-INCH THROUGH 8-INCH SHALL BE POLYVINYL CHLORIDE (PVC) SDR 26 GREEN SEWER PIPE AND SHALL CONFORM TO THE REQUIREMENTS OF ASTM DESIGNATION D 3034-08 WITH GLUED JOINTS.

DEMOLITION NOTES:

- CONTRACTOR IS TO COMPLY WITH ALL GENERAL AND STATE REQUIREMENTS INVOLVING THE REMOVAL AND DISPOSAL OF HAZARDOUS MATERIAL(S).
- THE CONTRACTOR SHALL LOCATE AND CLEARLY MARK (AND THEN PRESERVE THESE MARKERS) FOR THE DURATION OF CONSTRUCTION OF ALL TELEPHONE, DATA, STREET LIGHT, SIGNAL LIGHT AND POWER FACILITIES THAT ARE IN OR NEAR THE AREA OF CONSTRUCTION.
- CONTRACTOR'S BID IS TO INCLUDE ALL VISIBLE SURFACE AND ALL SUBSURFACE FEATURES IDENTIFIED TO BE REMOVED OR ABANDONED IN THESE DOCUMENTS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR A SITE INSPECTION TO FULLY ACKNOWLEDGE THE EXTENT OF THE DEMOLITION WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ANY AND ALL PERMITS NECESSARY FOR ENCROACHMENT, GRADING, DEMOLITION, AND STATE JURISDICTIONS. THE CONTRACTOR SHALL PAY ALL FEES ASSOCIATED CONTRACTOR SHALL PAY DISPOSAL FEES.
- CONTRACTOR SHALL PAY DISPOSAL FEES.
- BACKFILL ALL DEPRESSIONS AND TRENCHES FROM DEMOLITION OF FOUNDATIONS & UTILITIES.
- WITHIN LIMITS OF WORK, REMOVE CURBS, GUTTERS, LANDSCAPING, SIGNAGE, TREES, SCRUBS, ASPHALT, UNDERGROUND PIPES, ETC. AS INDICATED ON THE PLANS AND SPECS.
- REMOVAL OF LANDSCAPING SHALL INCLUDE ROOTS AND ORGANIC MATERIALS.
- PRIOR TO BEGINNING DEMOLITION WORK ACTIVITIES, CONTRACTOR SHALL INSTALL EROSION CONTROL MEASURES OUTLINED IN THE EROSION & SEDIMENTATION CONTROL PLAN & DETAILS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSING ALL DEMOLITION MATERIALS, OR STORING SELECTED ITEMS BY OWNER'S REPRESENTATIVE AT DESIGNATED LOCATIONS.
- THE CONTRACTOR SHALL MAINTAIN ALL SAFETY DEVICES, AND SHALL BE RESPONSIBLE FOR CONFORMANCE TO ALL LOCAL, STATE AND FEDERAL SAFETY AND HEALTH STANDARDS LAWS AND REGULATIONS.
- THE CONTRACTOR SHALL PROTECT FROM DAMAGE ALL EXISTING IMPROVEMENTS FACILITIES AND STRUCTURES WHICH ARE TO REMAIN. ANY ITEMS DAMAGED BY THE CONTRACTOR OR HIS AGENTS OF ANY ITEMS REMOVED FOR HIS USE SHALL BE REPLACED IN EQUAL OR BETTER CONDITION AS APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE.
- COORDINATE WITH ELECTRICAL, MECHANICAL, FIRE PROTECTION AND ARCHITECTURAL DRAWINGS FOR UTILITY SHUT-DOWN / DISCONNECT LOCATIONS. CONTRACTOR IS TO SHUT OFF ALL UTILITIES AS NECESSARY PRIOR TO DEMOLITION. CONTRACTOR IS TO COORDINATE SERVICE INTERRUPTIONS WITH THE OWNER. DO NOT INTERRUPT SERVICES ADJACENT OFF-SITE OWNERS. ALSO SEE ARCHITECTURAL PLANS FOR ADDITIONAL SCOPE OF WORK.
- DEMOLITION INCLUDES REMOVAL OF ALL ITEMS ASSOCIATED WITH THE UTILITIES AND SHALL INCLUDE PREPARING THE SITE FOR NEW UTILITIES, BUILDINGS, RETAINING WALLS, ETC.
- ALL MATERIALS TO BE DEMOLISHED AND REMOVED SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY DISPOSED OF OFF-SITE.
- THE PLAN IS NOT INTENDED TO BE A COMPLETE CATALOGUE OF ALL EXISTING STRUCTURES AND UTILITIES. THIS PLAN INTENDS TO DISCLOSE GENERAL INFORMATION KNOWN BY THE ENGINEER AND TO SHOW THE LIMITS OF THE AREA WHERE WORK WILL BE PERFORMED. THIS PLAN SHOWS THE EXISTING FEATURES TAKEN FROM A FIELD SURVEY, FIELD INVESTIGATIONS AND AVAILABLE INFORMATION. THIS PLAN MAY OR MAY NOT ACCURATELY REFLECT THE TYPE OR EXTENT OF THE ITEMS TO BE ENCOUNTERED AS THEY ACTUALLY EXIST. WHERE EXISTING FEATURES ARE NOT SHOWN, IT IS IMPLIED THAT THEY ARE NOT TO BE DEMOLISHED OR REMOVED. THE CONTRACTOR SHALL PERFORM A THOROUGH FIELD INVESTIGATION AND REVIEW OF THE SITE WITHIN THE LIMIT OF WORK SHOWN IN THIS PLAN SET TO DETERMINE THE TYPE, QUANTITY AND EXTENT OF ANY AND ALL ITEMS. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THE EXTENT OF EXISTING STRUCTURES AND UTILITIES AND QUANTITY OR WORK INVOLVED IN REMOVING THESE ITEMS FROM THE SITE.

REVISIONS	BY

JOB NO:	216026
DATE:	3-21-17
SCALE:	AS NOTED
DESIGN BY:	WCC
DRAWN BY:	DR
SHEET NO:	



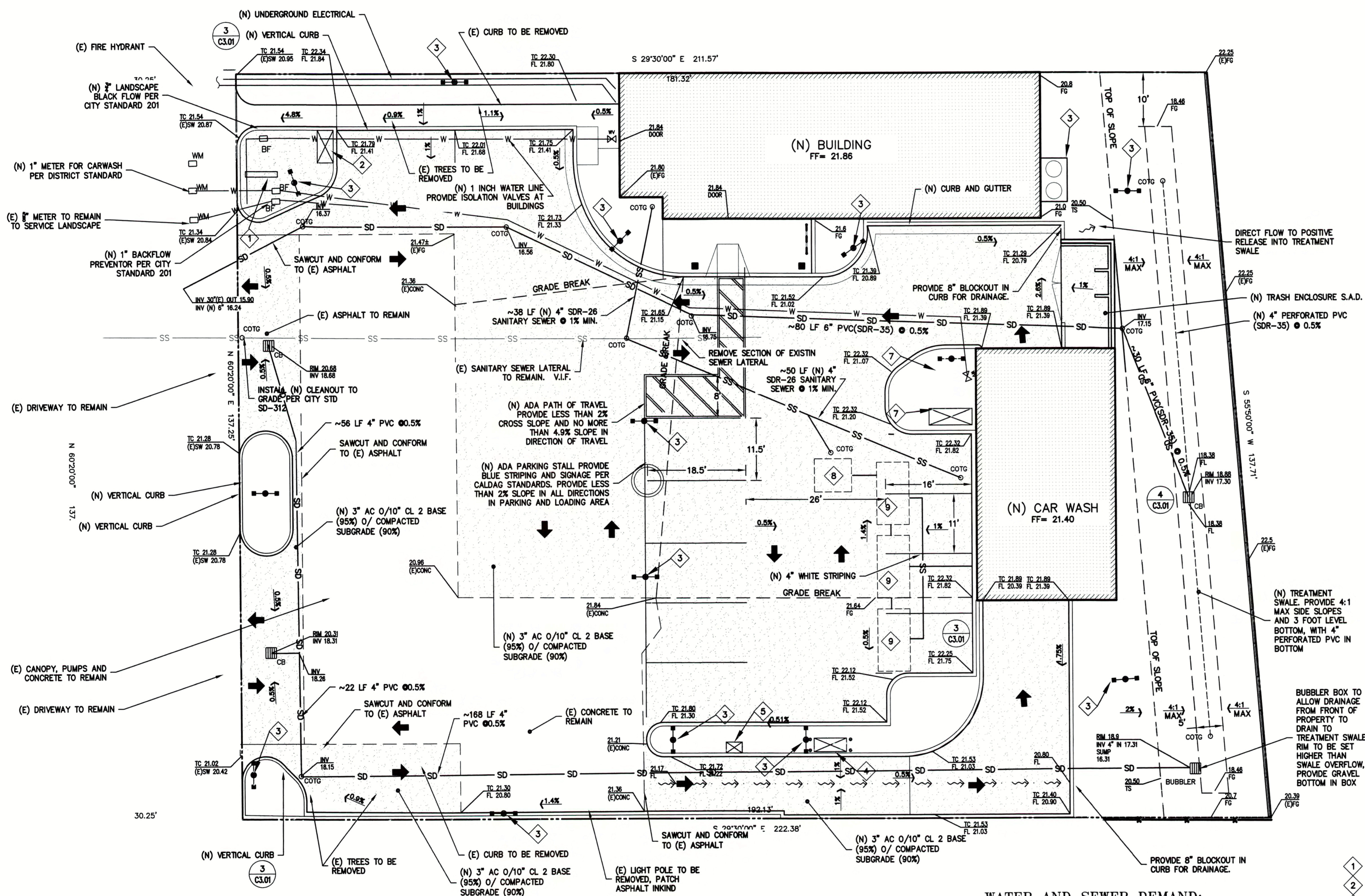
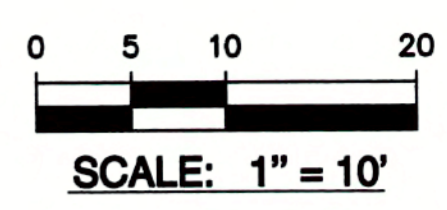


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**GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD.
HAYWARD, CALIFORNIA**
ALAMEDA COUNTY APR: 465-0001-002

GRADING PLAN



GRADING NOTES:

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY, LOCATE AND PROTECT ALL UNDERGROUND FACILITIES. UNDERGROUND FACILITIES DAMAGED DURING GRADING SHALL BE REPAIRED AND/OR REPLACED TO LIKE NEW CONDITION AT NO ADDITIONAL COST TO CONTRACTOR. REFER TO TOPOGRAPHIC SURVEY AND UTILITY SURVEY FOR ADDITIONAL INFORMATION.

THE CONTRACTOR SHALL MAINTAIN THE STREETS, SIDEWALKS AND ALL OTHER PUBLIC RIGHT-OF-WAY IN A CLEAN, SAFE AND USABLE CONDITION. ALL SPILLS OF SOIL, ROCK OR CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PUBLICLY OWNED PROPERTY DURING CONSTRUCTION AND UPON COMPLETION OF THE PROJECT. ALL ADJACENT PROPERTY, PRIVATE OR PUBLIC SHALL BE MAINTAINED IN A CLEAN, SAFE AND USABLE CONDITION.

ALL GRADING SHALL BE PERFORMED IN SUCH A MANNER AS TO COMPLY WITH THE STANDARDS ESTABLISHED BY THE AIR QUALITY MANAGEMENT DISTRICT FOR AIRBORNE PARTICULATES.

IN THE EVENT THAT HUMAN REMAINS AND/OR CULTURAL MATERIALS ARE FOUND, ALL PROJECT-RELATED CONSTRUCTION SHOULD CEASE WITHIN A 100-FOOT RADIUS. THE CONTRACTOR SHALL, PURSUANT TO SECTION 7050.5 OF THE HEALTH AND SAFETY CODE, AND SECTION 5097.94 OF THE PUBLIC RESOURCES CODE OF THE STATE OF CALIFORNIA, NOTIFY THE CORONER IMMEDIATELY.

CONTRACTOR VERIFY EXISTING UTILITY STUB LOCATIONS AND DEPTHS PRIOR TO COMMENCING CONSTRUCTION.

FINISHED GRADES SHALL BE SLOPED TOWARD INLETS OR POSITIVE RELEASE AT 0.5% MIN. FOR CONCRETE AND 1% MIN FOR ASPHALT AREAS.

REFER TO ARCHITECTURAL AND/OR LANDSCAPE PLANS FOR ADDITIONAL INFORMATION ON FLAT WORK, PAVING TYPE AND SCORING.

REFER TO ARCHITECTURAL PLANS FOR ACCESSIBLE PATH OF TRAVEL. GRADES SHALL BE DONE PER FEDERAL AND STATE ACCESSIBILITY REQUIREMENTS. IF CONTRACTOR BECOMES AWARE OF GRADES THAT ARE NOT CONFORMING TO ACCESSIBILITY REQUIREMENTS, HE SHALL BRING THIS TO THE ATTENTION OF THE ARCHITECT AND THE ENGINEER.

CUT AND FILL SLOPES AND GRADING TRANSITIONS AT THE OUTER EDGES OF THE PROPOSED IMPROVEMENTS ARE TO BE CONSTRUCTED AT THREE HORIZONTAL TO ONE VERTICAL (3:1) UNLESS OTHERWISE NOTED.

UTILITY NOTES:

STORM DRAIN PIPING SHALL BE PVC SDR-35 OR BETTER OR DOUBLE WALLED HDPE PIPING ADS N-12 OR APPROVED EQUAL. 6" MIN U.O.N.

CONTRACTOR SHALL VERIFY BUILDING CONNECTIONS AND ELEVATION. THIS INCLUDES RAIN WATER LEADER, SEWER CONNECTION AND WATER CONNECTION. NOTIFY ENGINEER OF ANY CONFLICTS.

ALL BUILDING POINTS OF CONNECTION SHALL BE VERIFIED WITH BUILDING PLUMBING DRAWING. NOTIFY ENGINEER OF ANY CONFLICT.

CONTRACTOR SHALL VERIFY EXISTING GRADES FOR ACCURACY PRIOR TO THE STARTING OF GRADING. NOTIFY THE ENGINEER IMMEDIATELY SHOULD CONFLICTS ARISE AND REDIRECT WORK TO AVOID DELAY.

THE CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL EXISTING UTILITIES, STRUCTURES AND SERVICES BEFORE COMMENCING WORK. THE LOCATIONS OF UTILITIES STRUCTURES AND SERVICES SHOWN IN THE CONTRACT DOCUMENTS SHALL BE DEEMED TO BE APPROXIMATIONS ONLY. ALL DISCREPANCIES BETWEEN WHAT IS SHOWN AND THE ACTUAL FIELD CONDITIONS SHALL BE REPORTED TO THE DISTRICT REPRESENTATIVE. THE CONTRACTOR SHALL CONTACT UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 PRIOR TO ANY DEMOLITION OR EXCAVATION. UPON COMPLETION OF USA MARKING OPERATIONS, CONTRACTOR SHALL RECORD ALL UTILITY MARKINGS ON A SEPARATE SET OF DRAWINGS. THIS SET SHALL BE KEPT ON-SITE FOR REFERENCE FOR DURATION OF CONTRACT.

PROPOSED GRADES SHALL MEET EXISTING GRADES WITH A SMOOTH AND CONTINUOUS TRANSITION SO AS TO AVOID TRAPPING WATER. CONTRACTOR SHALL NOTIFY DISTRICT REPRESENTATIVE IF PUDDLING IS SUSPECTED AND REDIRECT WORK SO AS TO AVOID DELAY WHILE AWAITING RESPONSE.

ALL EXISTING DRAINAGE STRUCTURES, BOXES, UTILITY VAULTS ETC. SHALL BE BROUGHT TO FINAL FINISH GRADE PRIOR TO FINAL SURFACE TREATMENT, UNLESS NOTED OTHERWISE.

THE CONTRACTOR IS TO ENSURE THAT ALL REMAINING ACTIVE AND NEW DRAINAGE AND UTILITY LINES ARE PROTECTED AND UNDAMAGED FROM TRENCHING AND FOOTING EXCAVATIONS.

CONTRACTOR IS TO ENSURE THAT ALL AREAS ARE GRADED TO PROVIDE POSITIVE DRAINAGE TO IDENTIFIED EXISTING AND PROPOSED DRAIN INLETS.

AREAS OF TRENCHING SHALL BE PATCHED TO MATCH EXISTING CONDITIONS TO LIKE NEW CONDITIONS, INCLUDING BUT NOT LIMITED TO SOD, CONCRETE AND ASPHALT.

WATER MAINS AND SERVICES SHALL BE LOCATED 10 FEET HORIZONTALLY FROM AND ONE FOOT VERTICALLY ABOVE PARALLEL SEWER LINES AND 4 FEET AND ONE FOOT FOR STORM DRAIN LINES.

ANNOTATION NOTES

- 1 (N) SIGN SEE ARCHITECTURAL PLANS
- 2 (N) AIR AND WATER STATION S.A.D.
- 3 (N) LIGHT STANDARD S.A.D.
- 4 GAS RELEASE TANK S.A.D.
- 5 CAR WASH CONTROL CONSOLE
- 6 FREEZER COMPRESSOR PAD
- 7 VACUUM BOOSTER, S.A.D.
- 8 750 GALLON OIL WATER SEPERATOR, BY OTHERS.
- 9 2000 GALLON UNDERGROUND WATER RECYCLING SYSTEM TANKS BY OTHERS

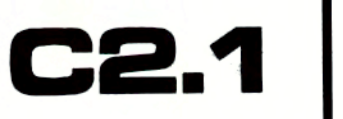
WATER AND SEWER DEMAND:

USAGE ASSUMPTIONS:
 WASHES PER DAY
 TOTAL GALLONS USED PER WASH = 75
 % OF WATER USED FROM RECLAIM = 75%
 FRESH WATER USED PER WASH = 12 GALLON
 TOTAL FRESH WATER PER DAY = 900
 TOTAL DISCHARGE TO SEWER PER DAY = 450-600 GALLONS
 (WITH ALLOWANCE FOR WATER DRIPPING OFF CARS AND EVAPORATION AT 3-6 GALLONS PER CAR)

MINIMUM WATER SUPPLY IS 38 GPM AT 30 PSI.

REVISIONS	BY

JOB NO: 216026
 DATE: 3-14-18
 SCALE: AS NOTED
 DESIGN BY: WCC
 DRAWN BY: DR
 SHEET NO:





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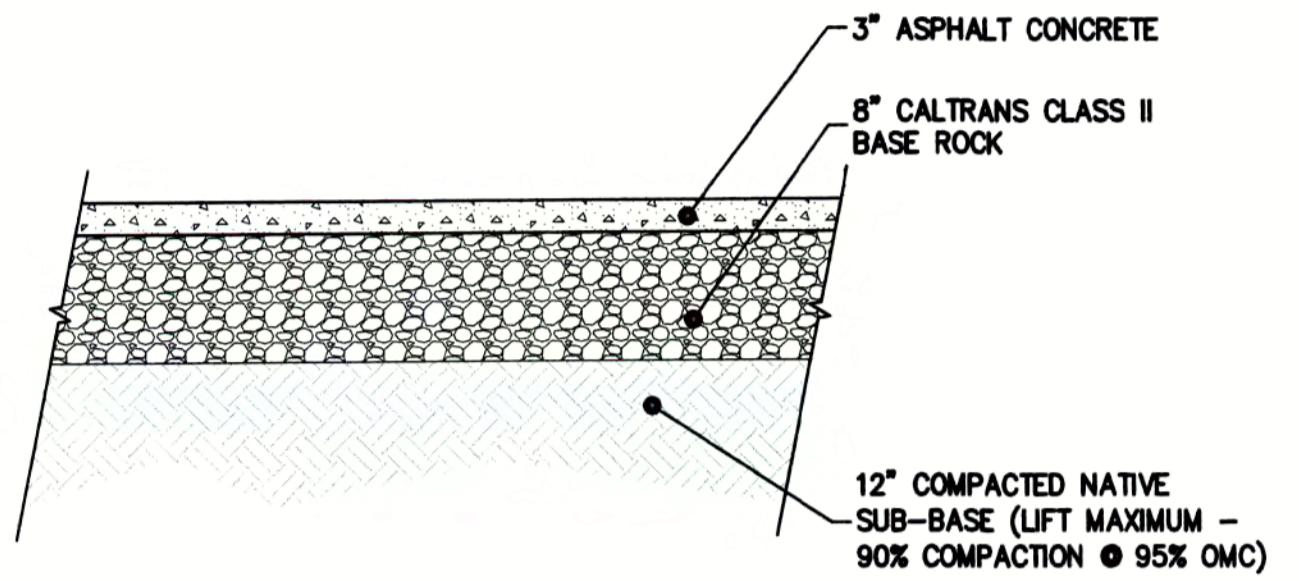
GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD.
HAYWARD, CALIFORNIA
ALAMEDA COUNTY APN: 465-0001-002

DETAILS

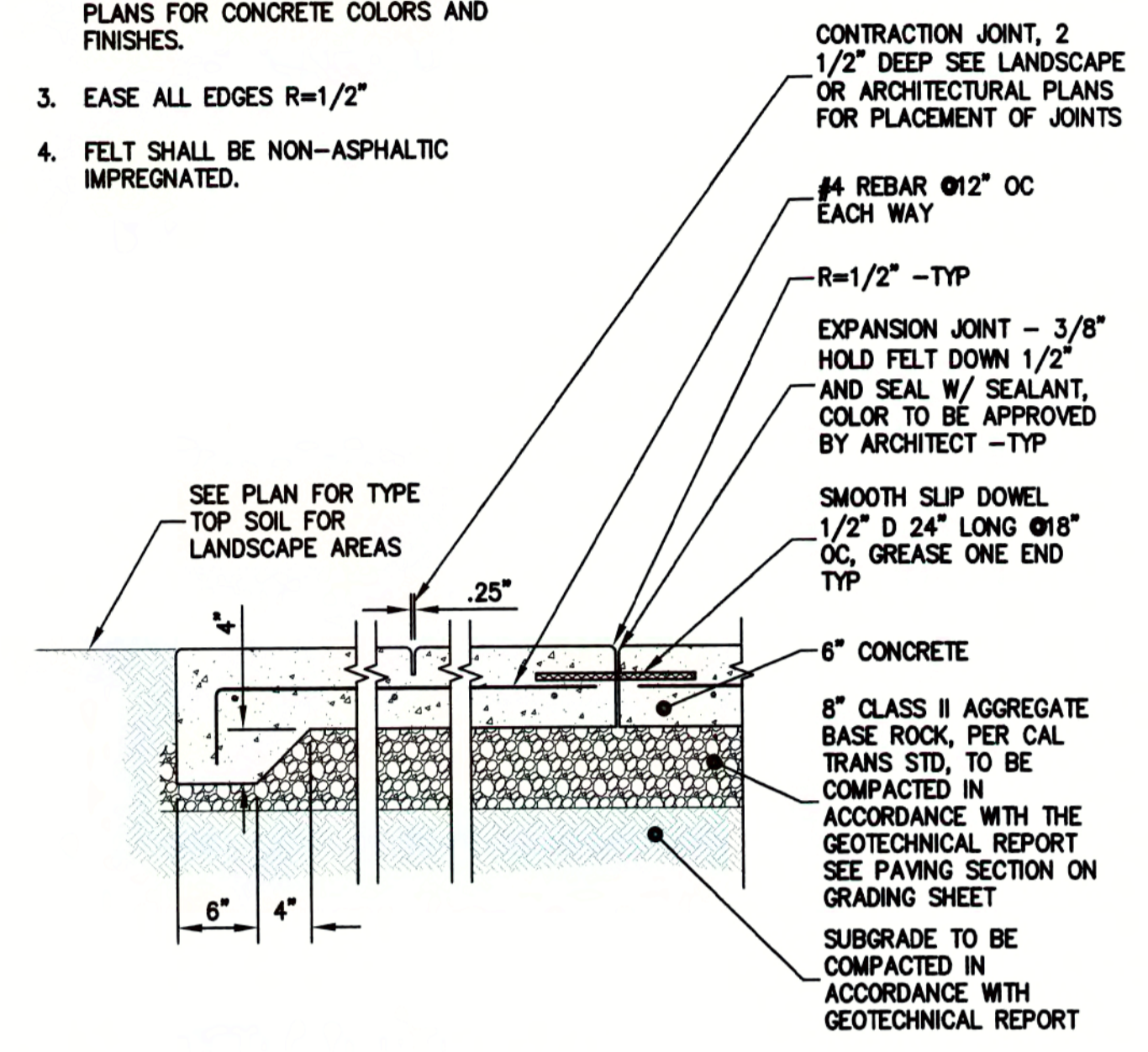
REVISIONS	BY
JOB NO:	216026
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SHEET NO:	

C3.1

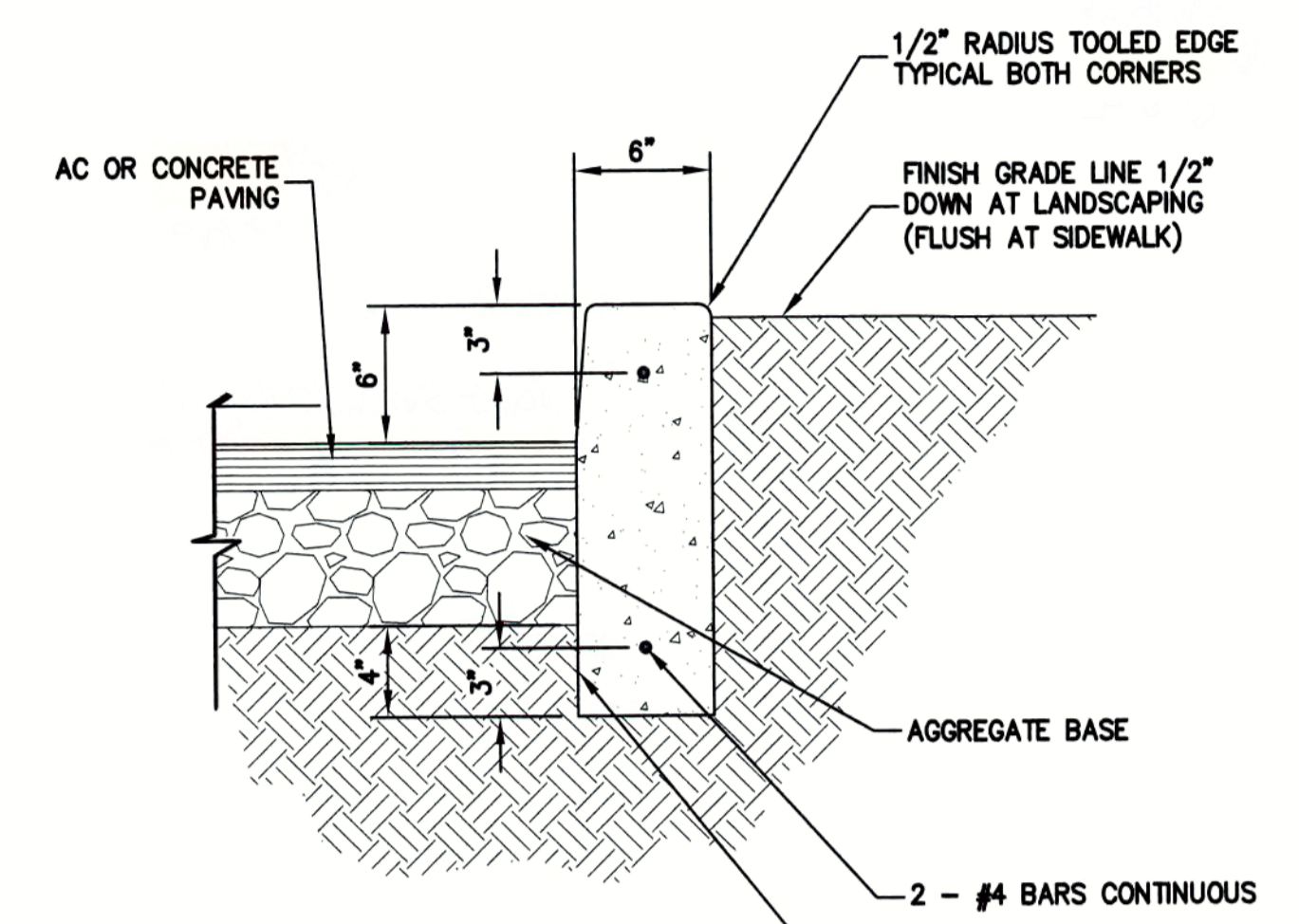
- NOTES:**
1. SLOPE ALL CONCRETE TO DRAIN 1% MIN.
 2. SEE LANDSCAPE OR ARCHITECTURAL PLANS FOR CONCRETE COLORS AND FINISHES.
 3. EASE ALL EDGES R=1/2"
 4. FELT SHALL BE NON-ASPHALTIC IMPREGNATED.



1 ASPHALT SECTION
C3.1 NTS

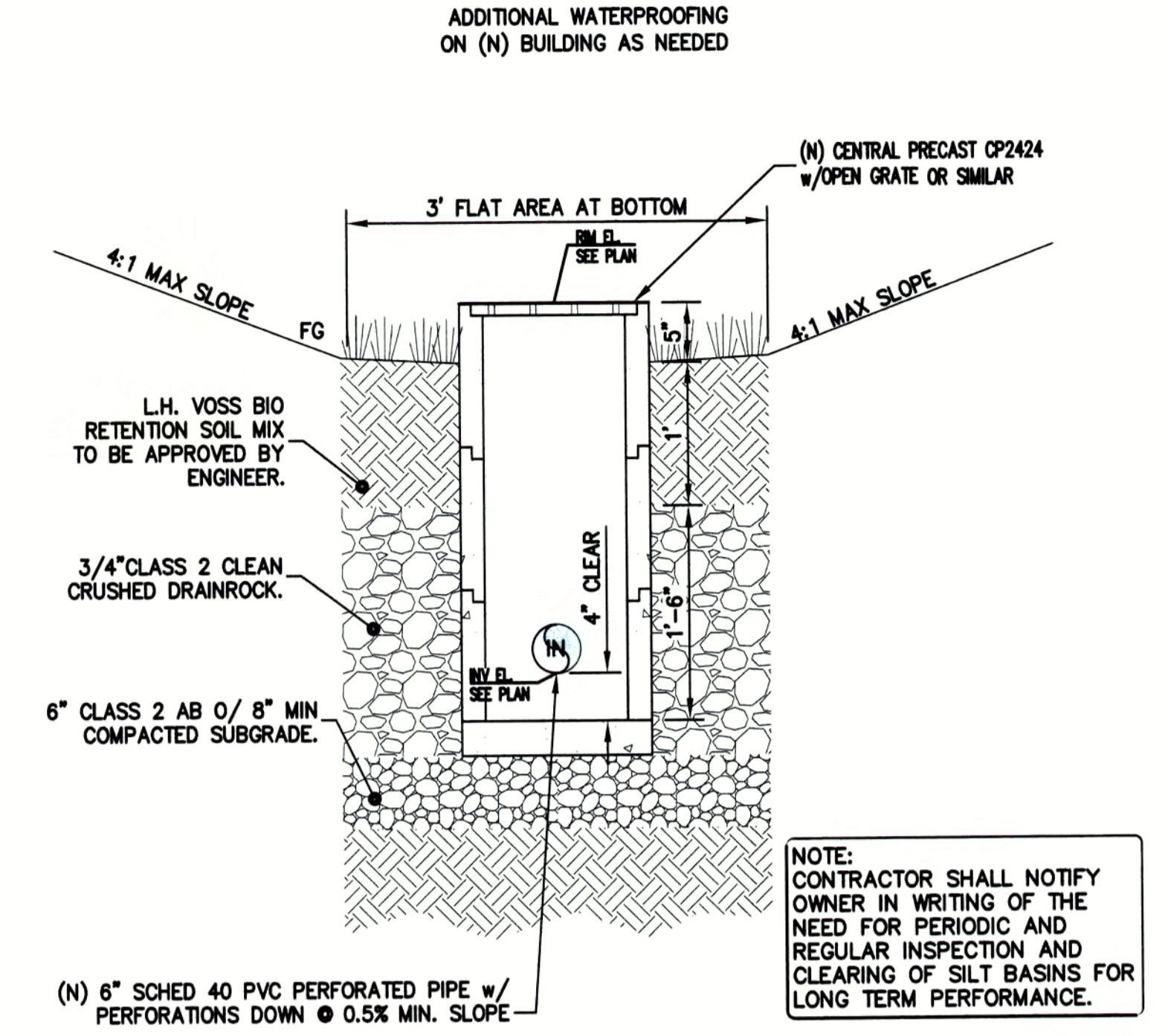


2 CONCRETE PAVING
C3.1 NTS

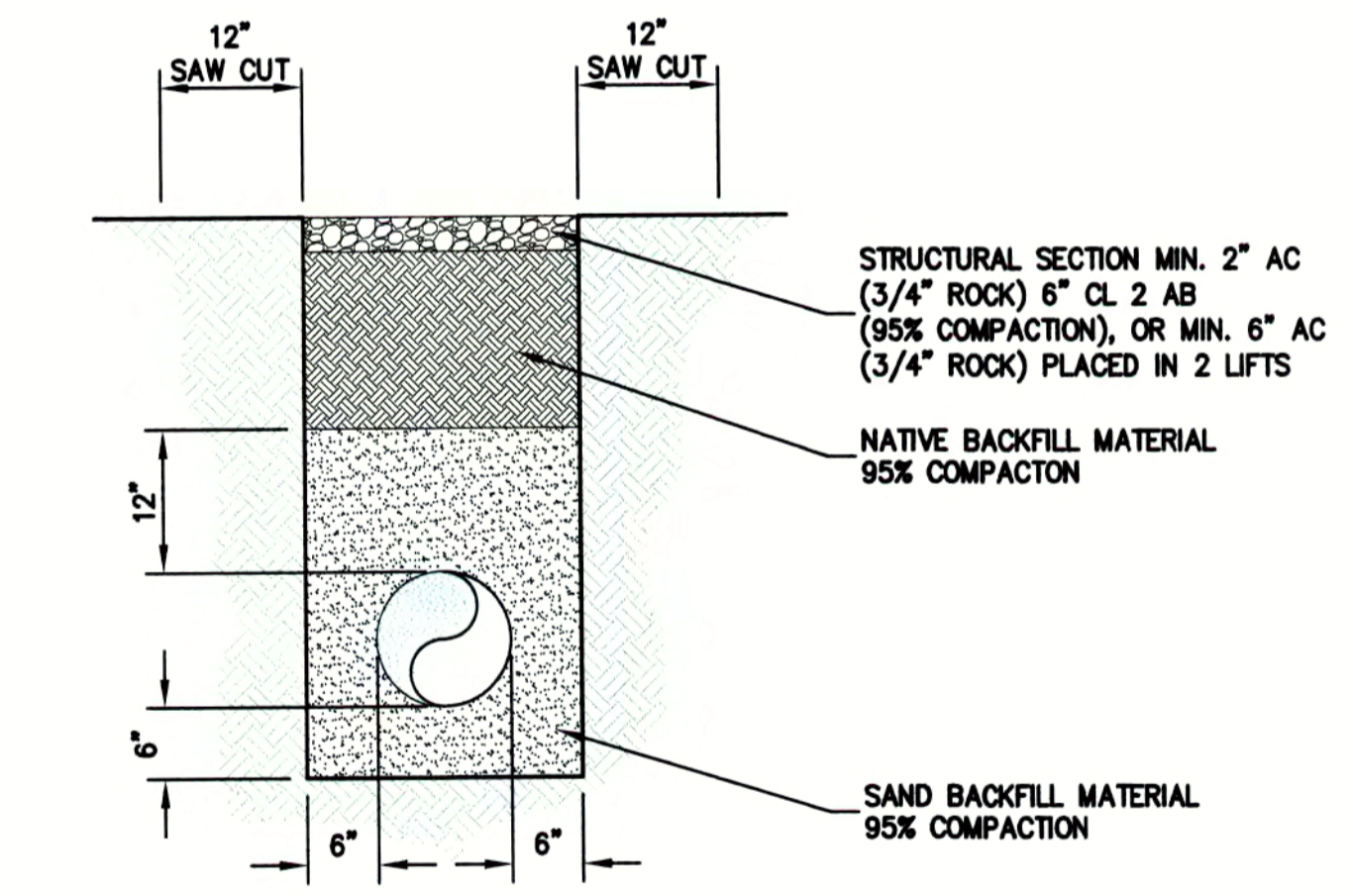


- NOTE:**
1. CURB MAY EITHER BE EXTRUDED TO THE SHAPE SHOWN OR FORMED & POURED IN PLACE.
 2. PROVIDE EXPANSION JOINTS AT 15' O.C.

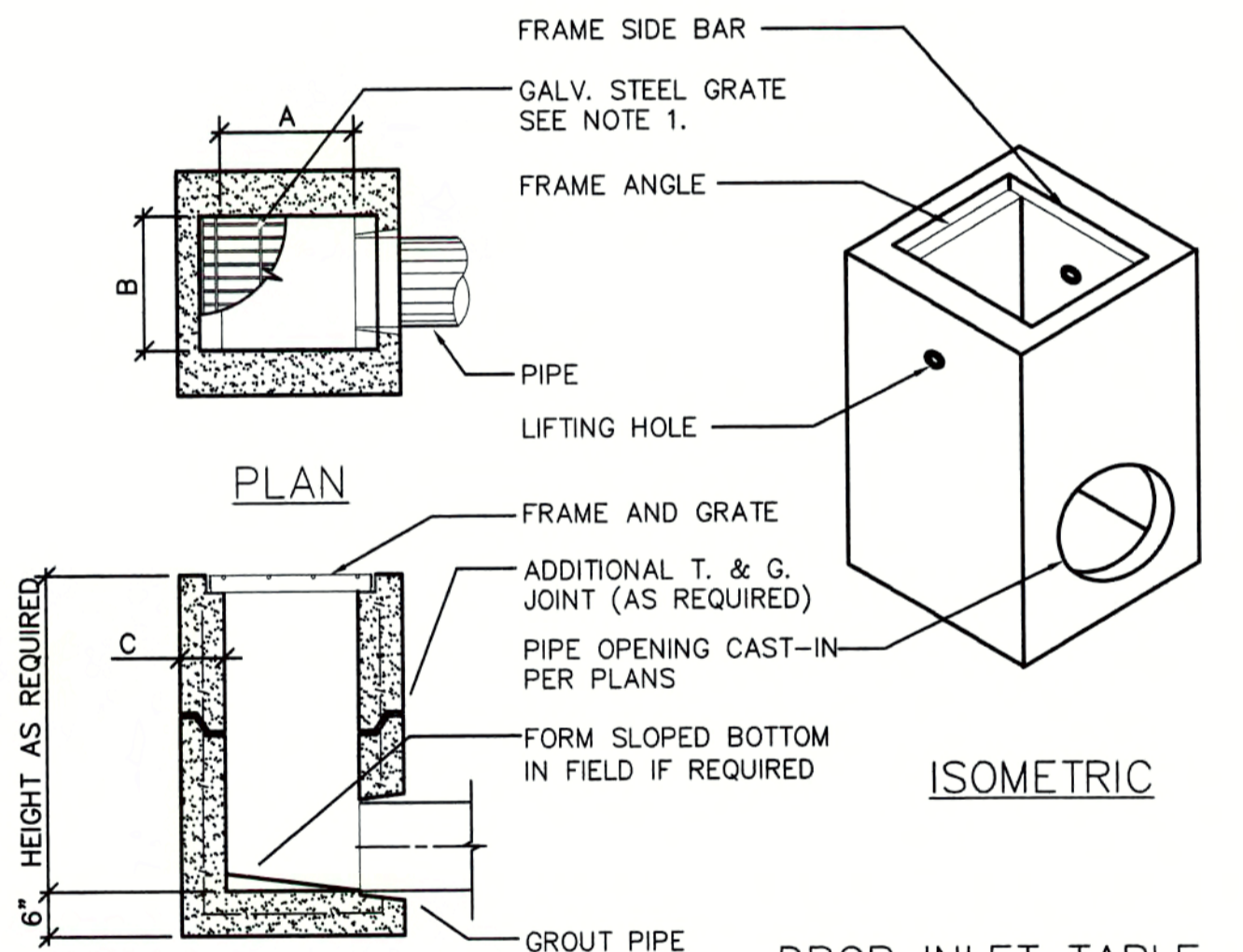
3 TYPICAL CURB
C3.1 NTS



4 BIO-SWALE & CATCH BASIN
C3.1 NTS



5 TRENCH BACKFILL
C3.1 NTS



TYPICAL SECTION

NOTES :

1. FRAMES AND GRATES MAY BE SPECIFIED FOR PEDESTRIAN OR H2O TRAFFIC LOADING. ALL GRATES ARE BICYCLE PROOF. OPTIONAL GRATE LOCKING DEVICE AVAILABLE ON REQUEST SEE DRAWING "LOCK" ON PAGE 1-7. CLOSED-MESH GRATES OR CAST IRON FRAME AND GRATES ARE AVAILABLE ON REQUEST.
2. FOR SURFACE AND DISCHARGE OPTIONS AVAILABLE SEE DRAWING NO. "DI-SO" PAGE 1-9 AND "DI-SO" PAGE 1-5.
3. FRAMES AND GRATES DETAILS SEE PAGES 1-8, 1-9, AND 1-10.
4. WALL THICKNESSES ON ALL D.I.S. CAN BE CHANGED UPON REQUEST.
5. 18" WIDE D.I.'S REPLACE THE OLD 16" WIDE BOX BK & 1K.

MODEL No.	CPC MODEL NAME	A IN	B IN	C IN
CP1212	EK	12	300	4
CP1818	CK	18	450	5
CP1824	1K*	18	450	5
CP2424	2K	24	600	5
CP2430	3K	24	600	5
CP3030	5K	30	750	6
CP2436	1L	24	600	6
CP3636	1M	36	900	6
CP2448	3L	24	600	6
CP3648	3M	36	900	6
CP4848	1R	48	1200	6

6 CATCH BASIN DETAIL
C3.2 NTS

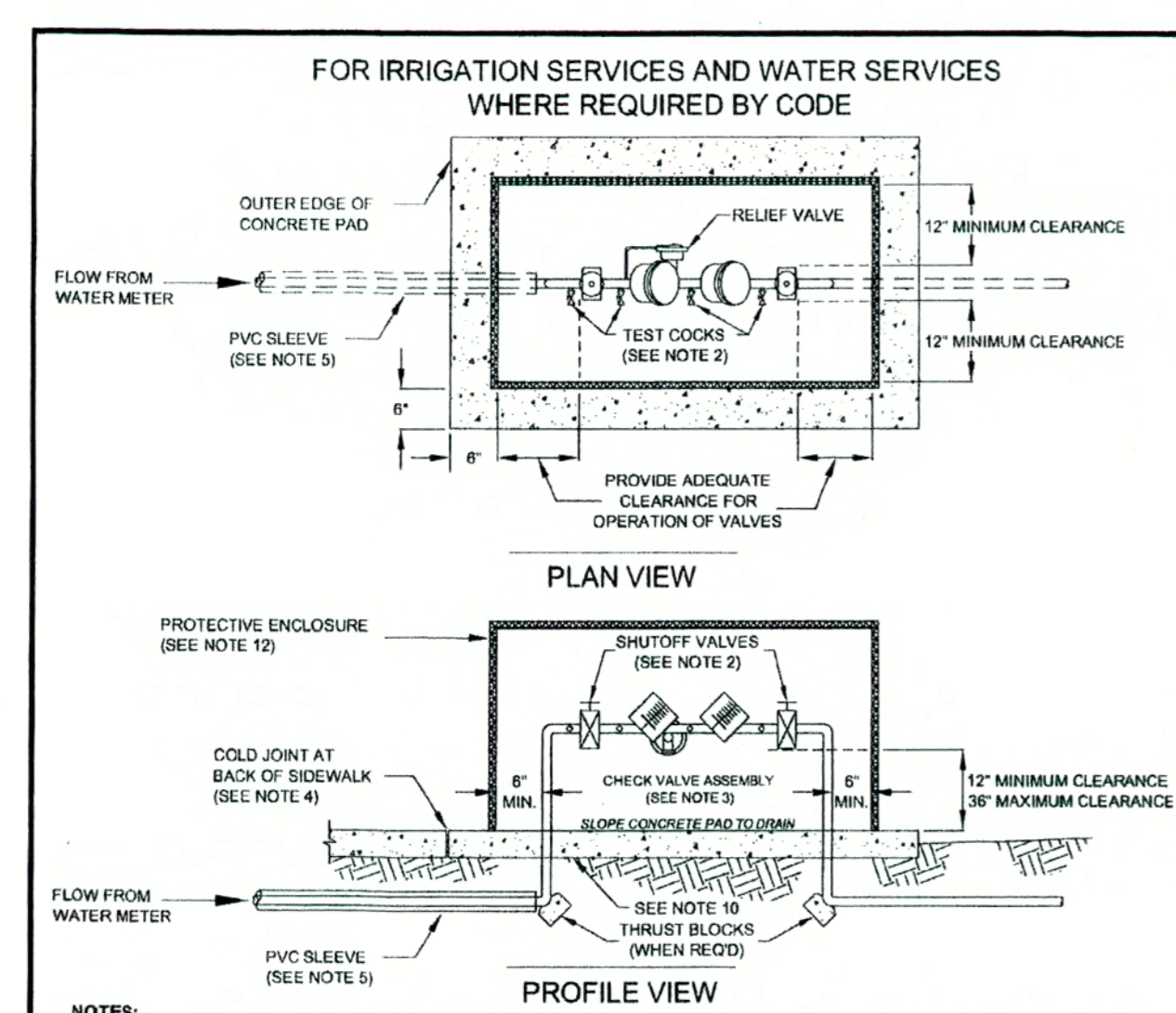


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GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD.
HAYWARD, CALIFORNIA
ALAMEDA COUNTY APN: 465-0001-002

DETAILS



- NOTES:
- REDUCED PRESSURE PRINCIPAL BACKFLOW PREVENTION ASSEMBLIES (RPP) AND REDUCED PRESSURE PRINCIPAL DETECTOR ASSEMBLIES (RPDA) SHALL CONFORM TO THE REQUIREMENTS OF AWWA C511, THE CALIFORNIA CODE OF REGULATIONS TITLE 17, AND SHALL BE APPROVED BY THE CALIFORNIA DEPARTMENT OF PUBLIC HEALTH.
 - ALL SHUT-OFF VALVES SHALL BE RESILIENT-SEATED. FOR VALVES 2" OR LARGER, THEY SHALL ALSO CONFORM TO AWWA C509 AND INCLUDE PIPE SUPPORTS. TEST COCKS SHALL BE RESILIENT-SEATED FULL-PORTED.
 - THE RPP SHOWN ABOVE REPRESENTS A TYPICAL SCHEMATIC. THE ACTUAL APPEARANCE OF AN APPROVED DEVICE MAY VARY.
 - BACKFLOW DEVICE SHALL BE LOCATED ON A CONCRETE PAD (A) WITHIN 5 FEET FROM BACK OF SIDEWALK (B) A MAXIMUM OF 30" FROM THE BACK OF SIDEWALK WHERE SCREENING IS REQUIRED, OR (C) AT A LOCATION DETERMINED BY THE CROSS CONNECTION PERSONNEL IN THE FIELD.
 - THE SERVICE LINE FROM BACK OF METER TO THE DEVICE SHALL BE INSTALLED IN A MINIMUM 3" Ø PVC CASING/SLEEVE.
 - THE PORTION OF THE TRENCH FROM BACK OF METER TO THE DEVICE SHALL REMAIN OPEN UNTIL WATER DISTRIBUTION CROSS CONNECTION PERSONNEL HAVE INSPECTED AND APPROVED THE INSTALLATION.
 - AT LOCATIONS WITH MULTIPLE DEVICES, THESE DEVICES SHALL HAVE A MINIMUM CLEARANCE OF 18" BETWEEN THEM.
 - THE TESTING SIDE OF THE DEVICE SHALL HAVE 24" MINIMUM CLEARANCE FROM OBSTRUCTIONS (BUILDINGS, NON-FRANABLE LANDSCAPING, UTILITIES, ETC.) OTHER THAN ADJACENT BACKFLOW DEVICES.
 - ALL METAL EXPOSED TO SOIL OR CONCRETE SHALL BE EVENLY COATED WITH 3M SCOTCHWRAP PIPE PRIMER AND THEN WRAPPED WITH 3M SCOTCHWRAP NO. 51 BLACK PVC TAPE (5" OVERLAP).
 - CONCRETE PAD SHALL BE CLASS B CONCRETE, 4" MINIMUM THICKNESS.
 - PROTECTIVE ENCLOSURE SHALL BE A HINGED & LOCKABLE STEEL WIRE CAGE, POWDER COATED GREEN.
 - VALVE ASSEMBLY SHALL BE COVERED WITH AN INSULATION BLANKET, MINIMUM R-13, GREEN, WEATHERGUARD OR EQUAL.
 - FOR VALVES 2" AND LARGER, HANDWHEELS SHALL BE CHAINED AND LOCKED TO PREVENT UNAUTHORIZED OPERATION.
 - BOLLARDS SHALL BE INSTALLED AS DETERMINED BY THE CITY ENGINEER.

CITY OF HAYWARD ENGINEERING DIVISION		STANDARD - REDUCED PRESSURE PRINCIPAL BACKFLOW PREVEN- TION ASSEMBLIES		DWG. NO. SD-202
REV.	DATE	BY	CHK.	SHT. 1 OF 1

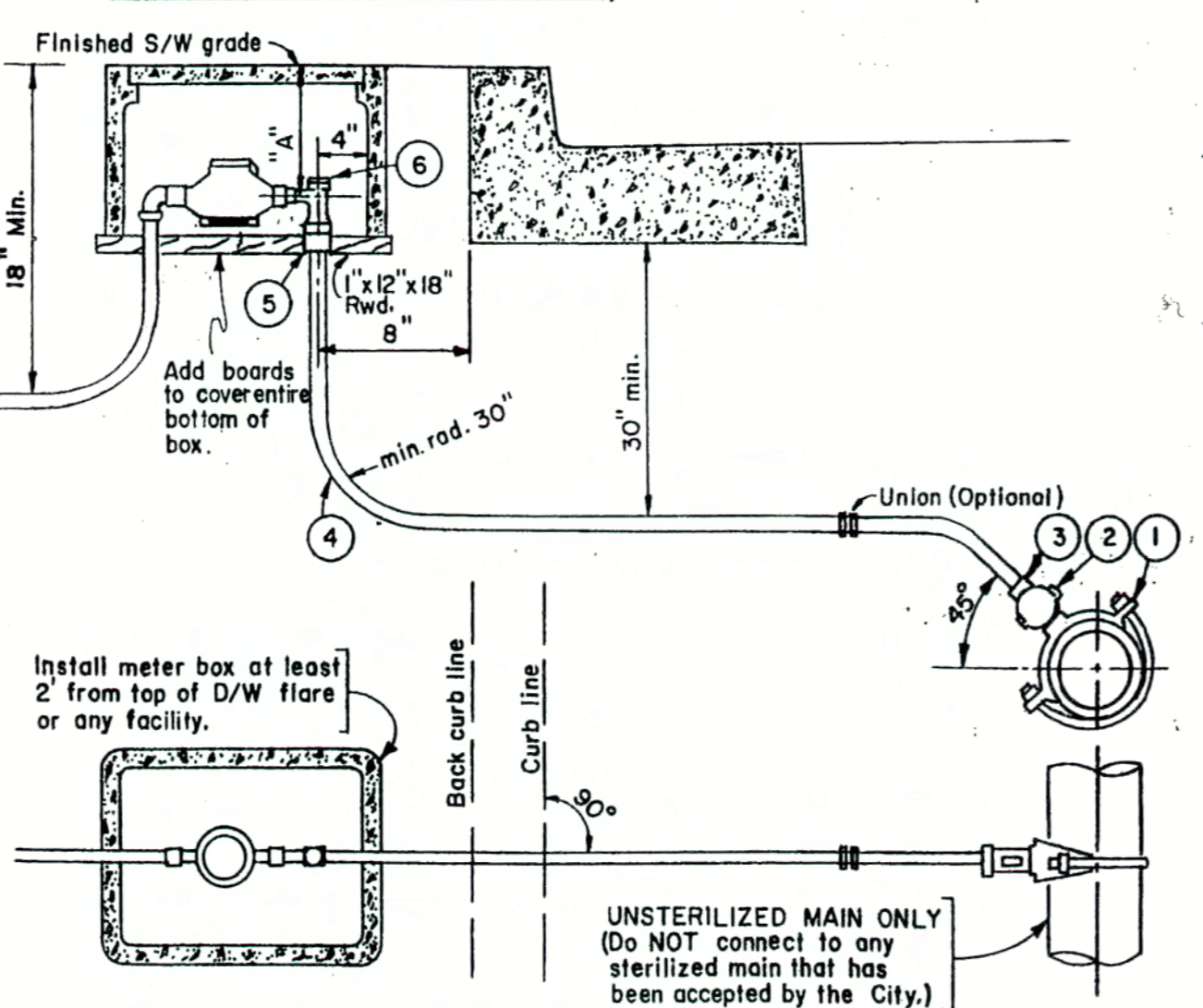
- NOTES:
- The water service piping shall be run in a straight line perpendicular to the curb from main to meter location.
 - All connections to copper tubing shall be flared.
 - Water Department only will install meter.

SADDLES REQUIRED FOR CORP. STOP TAP

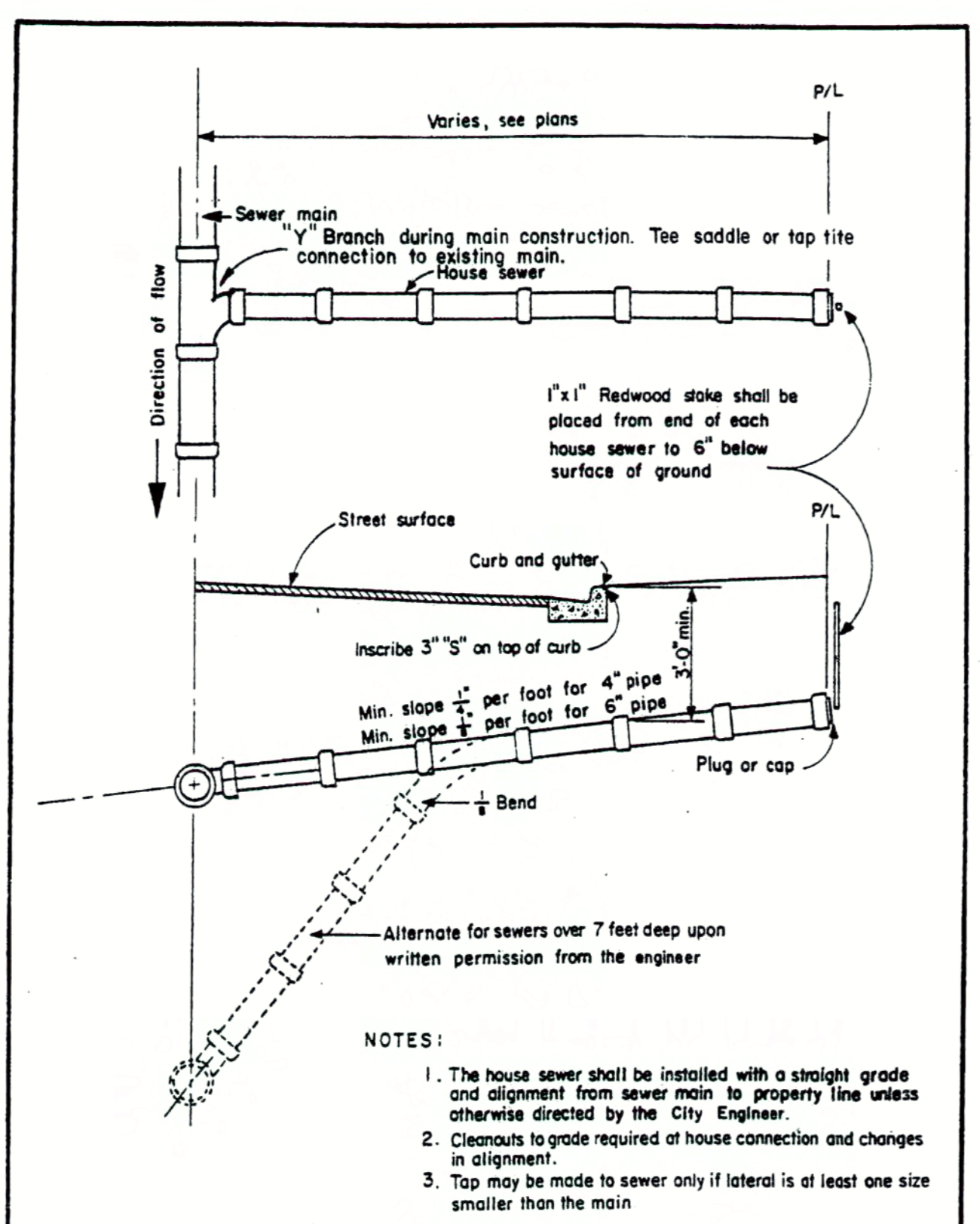
Water main Size	Type	A	B
3/4"	1"		
4"	D.I.	A	A
larger	PVC	B	B

A = Saddle, all bronze
B = Saddle, all bronze, J-976 or H-13490 through H-13494

Service Size	Dimension A"	Meter Box
3/8"	10"	Christy B-9 or Brooks No. 36 or approved equal
1/2"	10"	Christy B-16 or Brooks No. 37 or approved equal



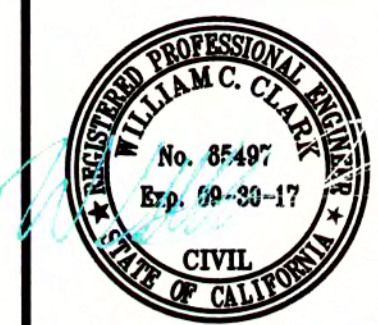
CITY OF HAYWARD ENGINEERING DIVISION		STANDARD COPPER SINGLE WATER SERVICE CONNECTION		DWG. NO. SD-213
REV.	DATE	BY	CHK.	SHT. 1 OF 1



CITY OF HAYWARD ENGINEERING DIVISION		STANDARD HOUSE SEWER		DWG. NO. SD-312
REV.	DATE	BY	CHK.	SHT. 1 OF 1

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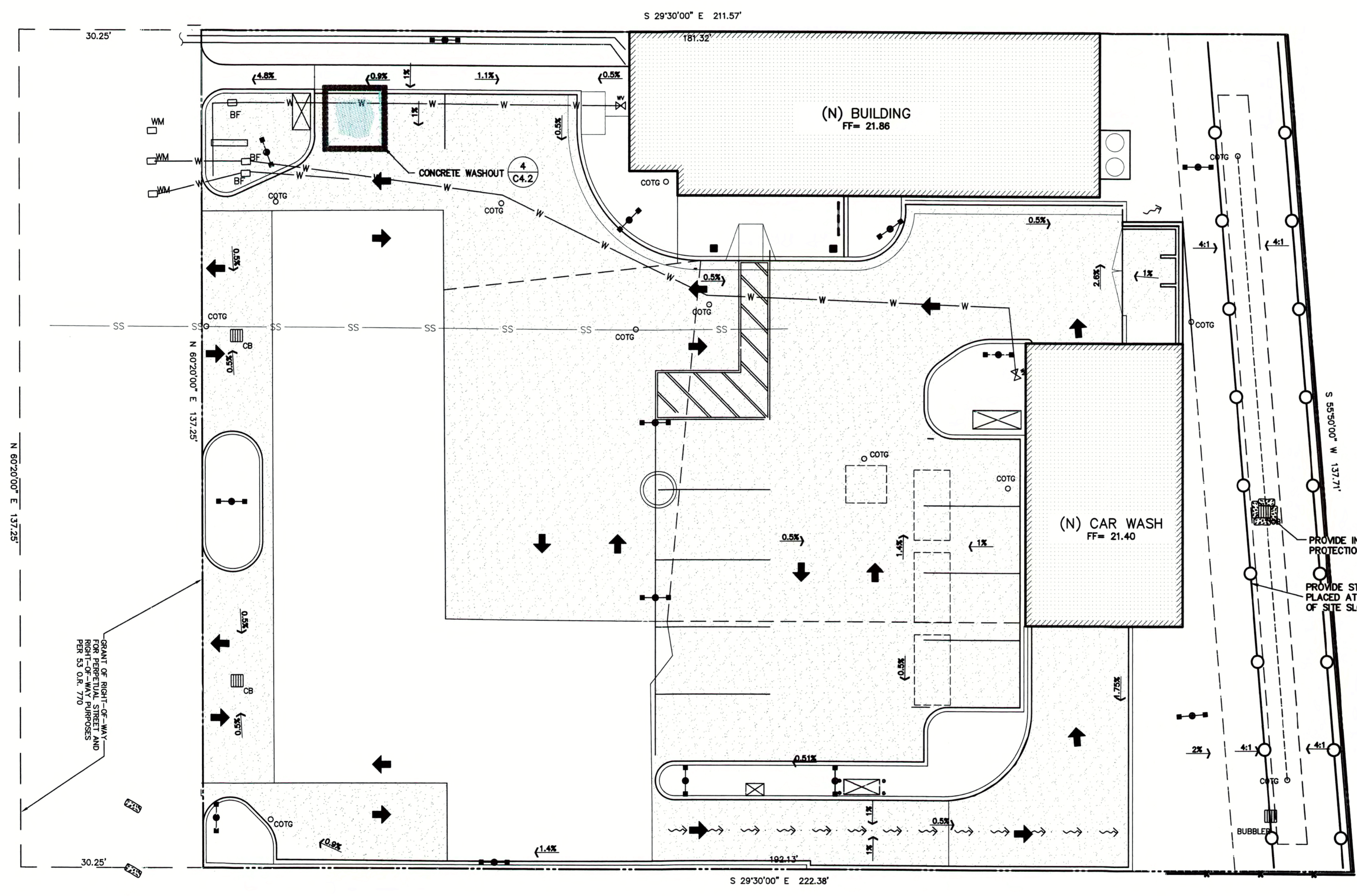


GAS STATION AND CAR WASH
 EXPANSION AND UPGRADE
 438 WEST TENNYSON RD.
 HAYWARD, CALIFORNIA
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EROSION CONTROL
 PLAN

REVISIONS	BY
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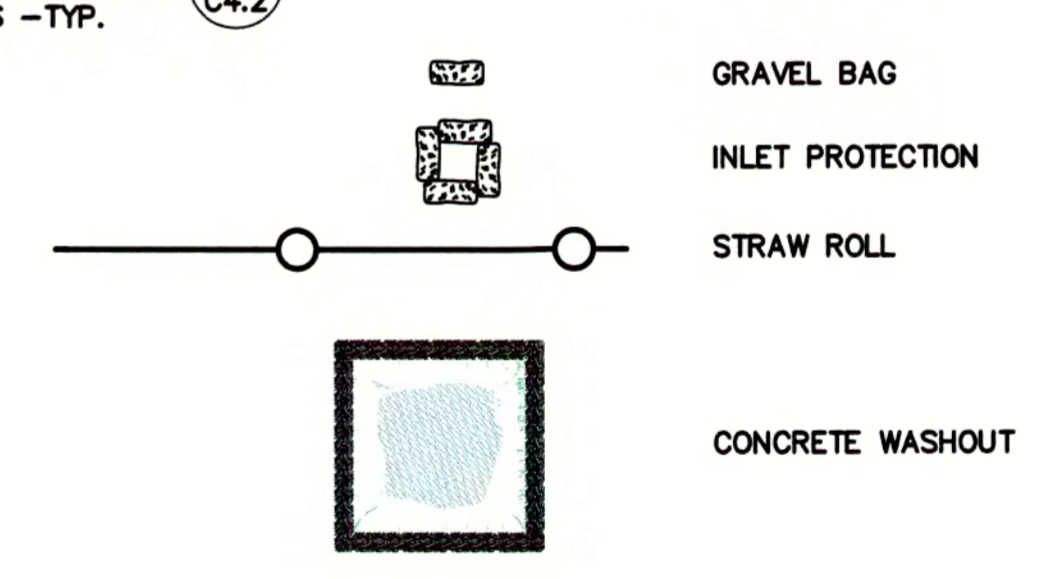
C4.1



PERIODIC MAINTENANCE:

1. MAINTENANCE IS TO BE PERFORMED AS FOLLOWS:
 - A. DAMAGES CAUSED BY SOIL EROSION OR CONSTRUCTION SHALL BE REPAIRED AT THE END OF EACH WORKING DAY.
 - B. SWALES SHALL BE INSPECTED PERIODICALLY AND MAINTAINED AS NEEDED.
 - C. SEDIMENT TRAPS, BERMS, AND SWALES ARE TO BE INSPECTED AFTER EACH STORM AND REPAIRS MADE AS NEEDED.
 - D. SEDIMENT SHALL BE REMOVED AND SEDIMENT TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN SEDIMENT HAS ACCUMULATED TO A DEPTH OF 1' FOOT.
 - E. SEDIMENT REMOVED FROM TRAP SHALL BE DEPOSITED IN A SUITABLE AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
 - F. RILLS AND GULLIES MUST BE REPAIRED.
2. GRAVEL BAG INLET PROTECTION SHALL BE CLEANED OUT WHENEVER SEDIMENT DEPTH IS ONE HALF THE HEIGHT OF ONE GRAVEL BAG.
3. STRAW ROLLS SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHED HALF THE HEIGHT OF THE ROLL.
4. SILT FENCE SHALL BE PERIODICALLY CHECKED TO ASSURE PROPER FUNCTION AND CLEANED OUT WHENEVER THE SEDIMENT DEPTH REACHES ONE FOOT IN HEIGHT.
5. CONSTRUCTION ENTRANCE SHALL BE REGRAVELED AS NECESSARY FOLLOWING SILT/SOIL BUILDUP.
6. ANY OTHER EROSION CONTROL MEASURES SHOULD BE CHECKED AT REGULAR INTERVALS TO ASSURE PROPER FUNCTION.

EROSION CONTROL LEGEND



NOTE:
 SEAL ALL OTHER INLETS NOT INTENDED TO ACCEPT STORM WATER AND DIRECT FLOWS TEMPORARILY TO FUNCTIONAL SEDIMENTATION BASIN INLETS. -TYP

GRANT OF RIGHT-OF-WAY
 FOR PERPETUAL STREET AND
 RIGHT-OF-WAY PURPOSES
 PER SD 03A 770

PROVIDE TEMPORARY GRAVEL BAGS OR STRAW BALES AT FLOW LINE AS SHOWN (2) C4.2

PROVIDE INLET PROTECTION -TYP. (1) C4.2

PROVIDE STRAW ROLLS PLACED AT THE PERIMETER OF SITE SLOPES -TYP. (3) C4.2

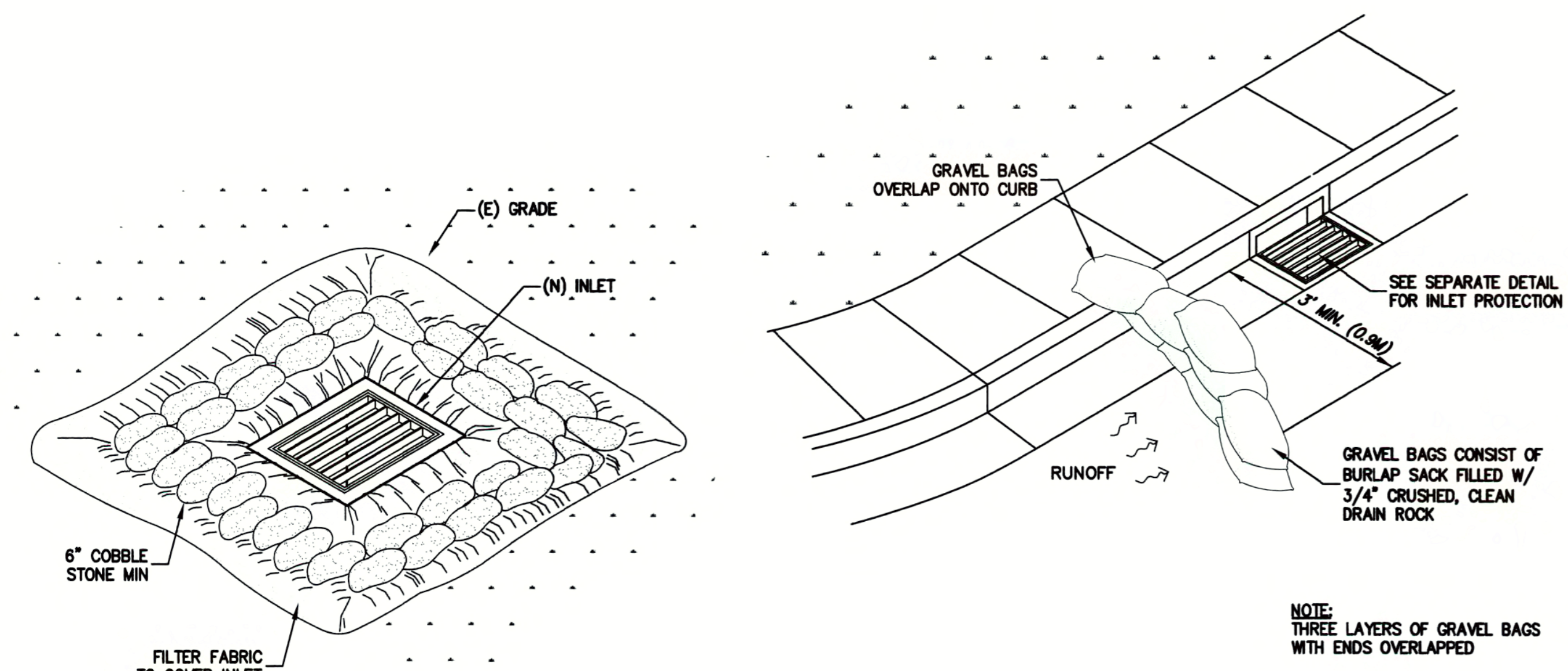


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17200 Highway One, West Coast Station, CA
PH: 415-295-4450 FAX: 510-372-0259



GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD.
HAYWARD, CALIFORNIA
ALAMEDA COUNTY APN: 465-0001-002

EROSION CONTROL
DETAILS



1 INLET PROTECTION
C4.2 NTS

2 GRAVEL BAG DIKE
C4.2 NTS

PURPOSE:

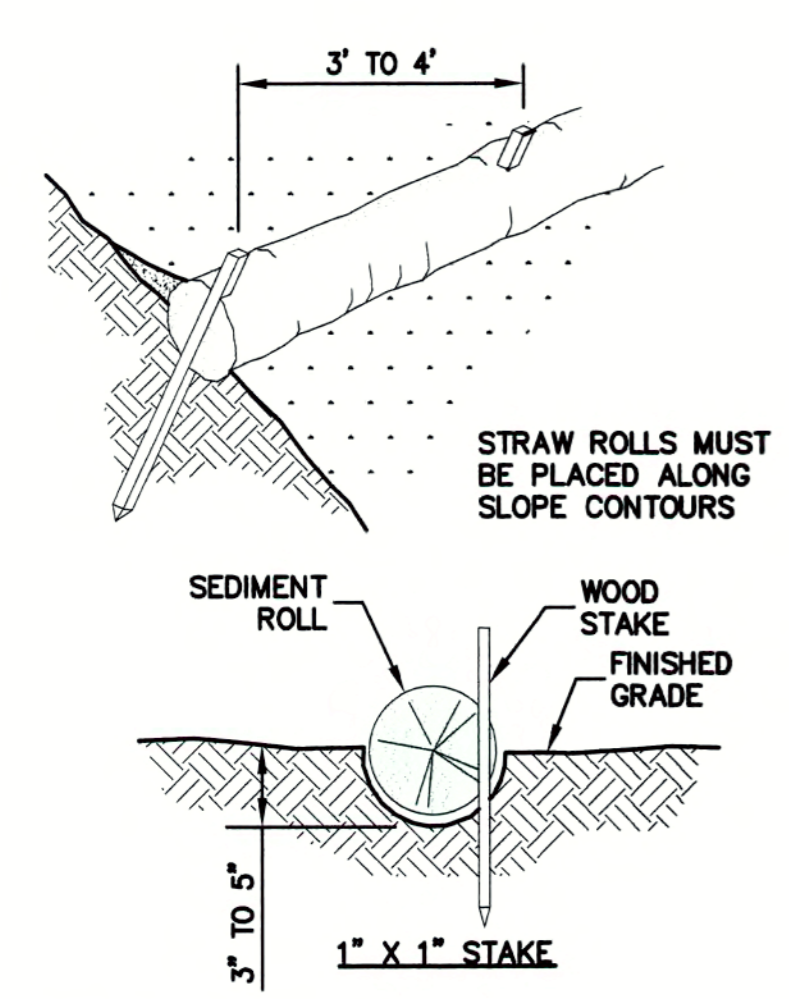
THE PURPOSE OF THIS PLAN IS TO STABILIZE THE SITE TO PREVENT EROSION OF GRADED AREAS AND TO PREVENT SEDIMENTATION FROM LEAVING THE CONSTRUCTION AREA AND AFFECTING NEIGHBORING SITES, NATURAL AREAS, PUBLIC FACILITIES OR ANY OTHER AREA THAT MIGHT BE AFFECTED BY SEDIMENTATION. ALL MEASURES SHOWN ON THIS PLAN SHOULD BE CONSIDERED THE MINIMUM REQUIREMENTS NECESSARY. SHOULD FIELD CONDITIONS DICTATE ADDITIONAL MEASURES, SUCH MEASURES SHALL BE PER CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, AND THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION. LEA & BRAZE ENGINEERING SHOULD BE NOTIFIED IMMEDIATELY SHOULD CONDITIONS CHANGE.

EROSION CONTROL MEASURES:

1. THE FACILITIES SHOWN ON THIS PLAN ARE DESIGNED TO CONTROL EROSION AND SEDIMENT DURING THE RAINY SEASON, OCTOBER 15TH TO APRIL 15. EROSION CONTROL FACILITIES SHALL BE IN PLACE PRIOR TO OCTOBER 15TH OF ANY YEAR. GRADING OPERATIONS DURING THE RAINY SEASON WHICH LEAVE DENUDE SLOPES SHALL BE PROTECTED WITH EROSION CONTROL MEASURES IMMEDIATELY FOLLOWING GRADING ON THE SLOPE.
2. SITE CONDITIONS AT TIME OF PLACEMENT OF EROSION CONTROL MEASURES WILL VARY. APPROPRIATE ACTION INCLUDING TEMPORARY SWALES, INLETS, HYDROSEEDING, STRAW BALES, ROCK SACKS, ETC. SHALL BE TAKEN TO PREVENT EROSION AND SEDIMENTATION FROM LEAVING SITE. EROSION CONTROL MEASURES SHALL BE ADJUSTED AS THE CONDITIONS CHANGE AND THE NEED OF CONSTRUCTION SHIFT.
3. CONSTRUCTION ENTRANCES SHALL BE INSTALLED PRIOR TO COMMENCEMENT OF GRADING. ALL CONSTRUCTION TRAFFIC ENTERING ONTO THE PAVED ROADS MUST CROSS THE STABILIZED CONSTRUCTION ENTRANCES. CONTRACTOR SHALL MAINTAIN STABILIZED ENTRANCE AT EACH VEHICLE ACCESS POINT TO EXISTING PAVED STREETS. ANY MUD OR DEBRIS TRACKED ONTO PUBLIC STREETS SHALL BE REMOVED DAILY AND AS REQUIRED BY THE GOVERNING AGENCY.
4. ALL EXPOSED SLOPES THAT ARE NOT VEGETATED SHALL BE HYDROSEED. IF HYDROSEEDING IS NOT USED OR IS NOT EFFECTIVE BY OCTOBER 15, THEN OTHER IMMEDIATE METHODS SHALL BE IMPLEMENTED, SUCH AS EROSION CONTROL BLANKETS, OR A THREE-STEP APPLICATION OF 1) SEED, MULCH, FERTILIZER 2) BLOWN STRAW 3) TACKIFIER AND MULCH. HYDROSEEDING SHALL BE IN ACCORDANCE WITH THE PROVISIONS OF SECTION 20" EROSION CONTROL AND HIGHWAY PLANTING" OF THE STANDARD SPECIFICATION OF THE STATE OF CALIFORNIA DEPARTMENT OF TRANSPORTATION, AS LAST REVISED. REFER TO THE EROSION CONTROL SECTION OF THE GRADING SPECIFICATIONS THAT ARE A PART OF THIS PLAN SET FOR FURTHER INFORMATION.
5. INLET PROTECTION SHALL BE INSTALLED AT OPEN INLETS TO PREVENT SEDIMENT FROM ENTERING THE STORM DRAIN SYSTEM. INLETS NOT USED IN CONJUNCTION WITH EROSION CONTROL ARE TO BE BLOCKED TO PREVENT ENTRY OF SEDIMENT. MINIMUM INLET PROTECTION SHALL CONSIST OF A ROCK SACKS OR AS SHOWN ON THIS PLAN.
6. THIS EROSION AND SEDIMENT CONTROL PLAN MAY NOT COVER ALL THE SITUATIONS THAT MAY ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS AND ADDITIONS MAY BE MADE TO THIS PLAN IN THE FIELD. A REPRESENTATIVE OF LEA & BRAZE ENGINEERING SHALL PERFORM A FIELD REVIEW AND MAKE RECOMMENDATIONS AS NEEDED. CONTRACTOR IS RESPONSIBLE TO NOTIFY LEA & BRAZE ENGINEERING AND THE GOVERNING AGENCY OF ANY CHANGES.
7. THE EROSION CONTROL MEASURES SHALL CONFORM TO THE LOCAL JURISDICTION'S STANDARDS AND THE APPROVAL OF THE LOCAL JURISDICTION'S ENGINEERING DEPARTMENT.
8. STRAW ROLLS SHALL BE PLACED AT THE TOE OF SLOPES AND ALONG THE DOWN SLOPE PERIMETER OF THE PROJECT. THEY SHALL BE PLACED AT 25 FOOT INTERVALS ON GRADED SLOPES. PLACEMENT SHALL RUN WITH THE CONTOURS AND ROLLS SHALL BE TIGHTLY END BUTTED. CONTRACTOR SHALL REFER TO MANUFACTURERS SPECIFICATIONS FOR PLACEMENT AND INSTALLATION INSTRUCTIONS.

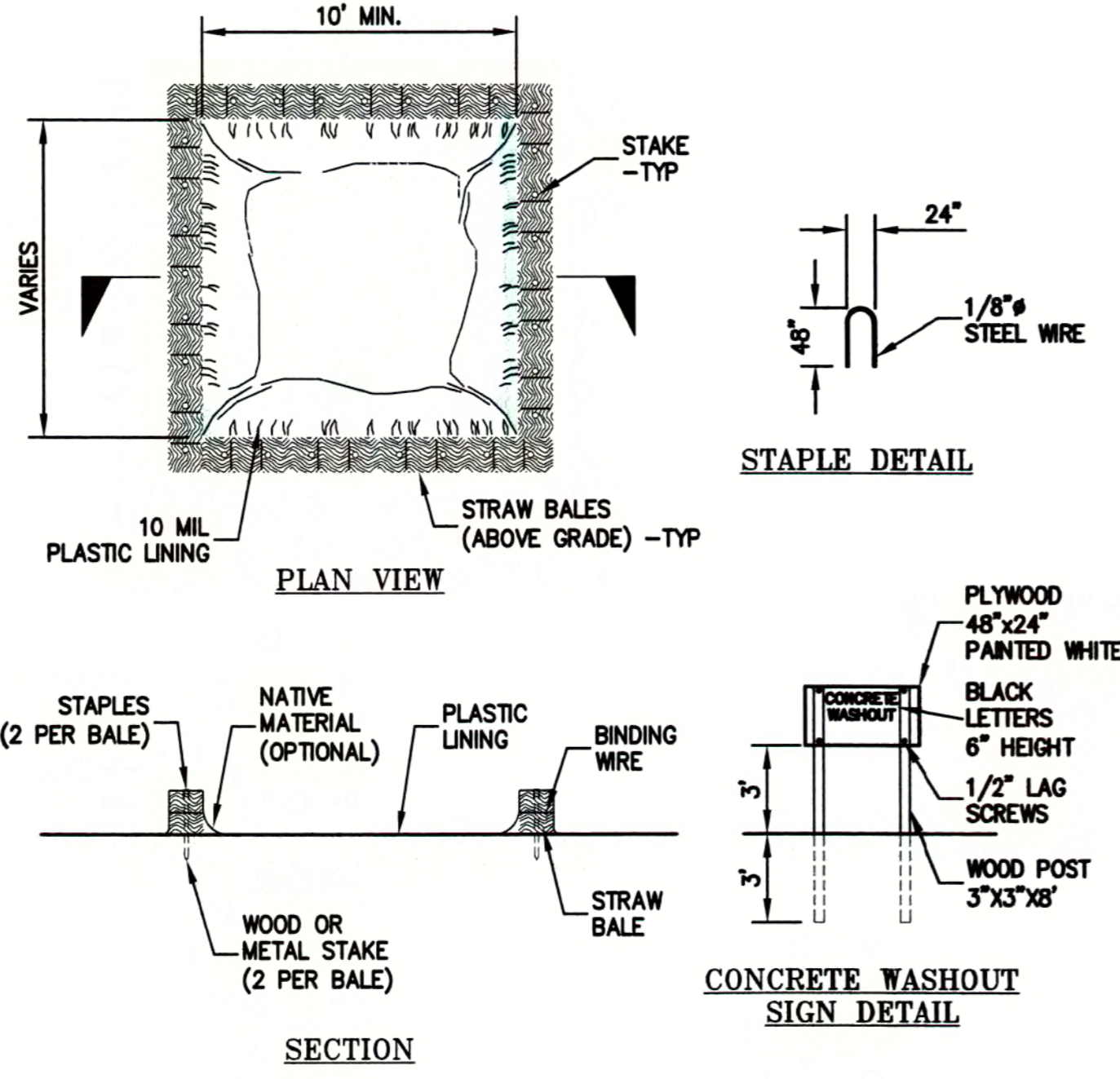
EROSION CONTROL NOTES:

1. IT SHALL BE THE OWNER'S/CONTRACTOR'S RESPONSIBILITY TO MAINTAIN CONTROL OF THE ENTIRE CONSTRUCTION OPERATION AND TO KEEP THE ENTIRE SITE IN COMPLIANCE WITH THIS EROSION CONTROL PLAN.
2. THE INTENTION OF THIS PLAN IS FOR INTERIM EROSION AND SEDIMENT CONTROL ONLY. ALL EROSION CONTROL MEASURES SHALL CONFORM TO CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD'S FIELD MANUAL FOR EROSION AND SEDIMENTATION CONTROL, THE CALIFORNIA STORM WATER QUALITY ASSOCIATION BEST MANAGEMENT PRACTICES HANDBOOK FOR CONSTRUCTION, AND THE LOCAL GOVERNING AGENCY FOR THIS PROJECT.
3. OWNER/CONTRACTOR SHALL BE RESPONSIBLE FOR MONITORING EROSION AND SEDIMENT CONTROL MEASURES PRIOR TO, DURING, AND AFTER STORM EVENTS. PERSON IN CHARGE OF MAINTAINING EROSION CONTROL MEASURES SHOULD WATCH LOCAL WEATHER REPORTS AND ACT APPROPRIATELY TO MAKE SURE ALL NECESSARY MEASURES ARE IN PLACE.
4. SANITARY FACILITIES SHALL BE MAINTAINED ON THE SITE AT ALL TIMES.
5. DURING THE RAINY SEASON, ALL PAVED AREAS SHALL BE KEPT CLEAR OF EARTH MATERIAL AND DEBRIS. THE SITE SHALL BE MAINTAINED SO AS TO MINIMIZE SEDIMENT-LADEN RUNOFF TO ANY STORM DRAINAGE SYSTEM, INCLUDING EXISTING DRAINAGE SWALES AND WATERCOURSES.
6. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION WILL BE MINIMIZED. COMPLIANCE WITH FEDERAL, STATE AND LOCAL LAWS CONCERNING POLLUTION SHALL BE MAINTAINED AT ALL TIMES.
7. CONTRACTOR SHALL PROVIDE DUST CONTROL AS REQUIRED BY THE APPROPRIATE FEDERAL, STATE AND LOCAL AGENCY REQUIREMENTS.
8. ALL MATERIALS NECESSARY FOR THE APPROVED EROSION CONTROL MEASURES SHALL BE IN PLACE BY OCTOBER 15TH.
9. EROSION CONTROL SYSTEMS SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON, OR FROM OCTOBER 15TH THROUGH APRIL 15TH, WHICHEVER IS LONGER.
10. IN THE EVENT OF RAIN, ALL GRADING WORK IS TO CEASE IMMEDIATELY AND THE SITE IS TO BE SEALED IN ACCORDANCE WITH THE APPROVAL EROSION CONTROL MEASURES AND APPROVED EROSION CONTROL PLAN.
11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CHECKING AND REPAIRING EROSION CONTROL SYSTEMS AFTER EACH STORM.
12. ADDITIONAL EROSION CONTROL MEASURES MAY BE REQUIRED BY LOCAL JURISDICTION'S ENGINEERING DEPARTMENT OR BUILDING OFFICIALS.
13. MEASURES SHALL BE TAKEN TO COLLECT OR CLEAN ANY ACCUMULATION OR DEPOSIT OF DIRT, MUD, SAND, ROCKS, GRAVEL OR DEBRIS ON THE SURFACE OF ANY STREET, ALLEY OR PUBLIC PLACE OR IN ANY PUBLIC STORM DRAIN SYSTEMS. THE REMOVAL OF AFORESAID SHALL BE DONE BY STREET SWEEPING OR HAND SWEEPING. WATER SHALL NOT BE USED TO WASH SEDIMENTS INTO PUBLIC OR PRIVATE DRAINAGE FACILITIES.
14. EROSION CONTROL MEASURES SHALL BE ON-SITE FROM SEPTEMBER 15TH THRU APRIL 15TH.
15. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED AND MAINTAINED THROUGHOUT THE RAINY SEASON OR FROM OCTOBER 15 THRU APRIL 15, WHICHEVER IS GREATER.



- NOTE:**
1. STRAW ROLL INSTALLATION REQUIRES THE PLACEMENT AND SECURE STAKING OF THE ROLL IN A TRENCH, 3" TO 5" DEEP, DUG ON CONTOUR. RUNOFF MUST NOT BE ALLOWED TO RUN UNDER OR AROUND ROLL. CONTRACTOR IS RESPONSIBLE FOR REGULAR MAINTENANCE AND INSPECTION. THE SILT SHALL BE CLEANED OUT WHEN IT REACHES HALF THE HEIGHT OF THE ROLL.

3 STRAW ROLLS
C4.2 NTS



NOTES:
ACTUAL LAYOUT DETERMINED IN FIELD.
THE CONCRETE WASHOUT SIGN SHALL BE INSTALLED WITHIN 10' OF THE TEMPORARY CONCRETE WASHOUT FACILITY.

4 CONCRETE WASHOUT
C4.2 NTS

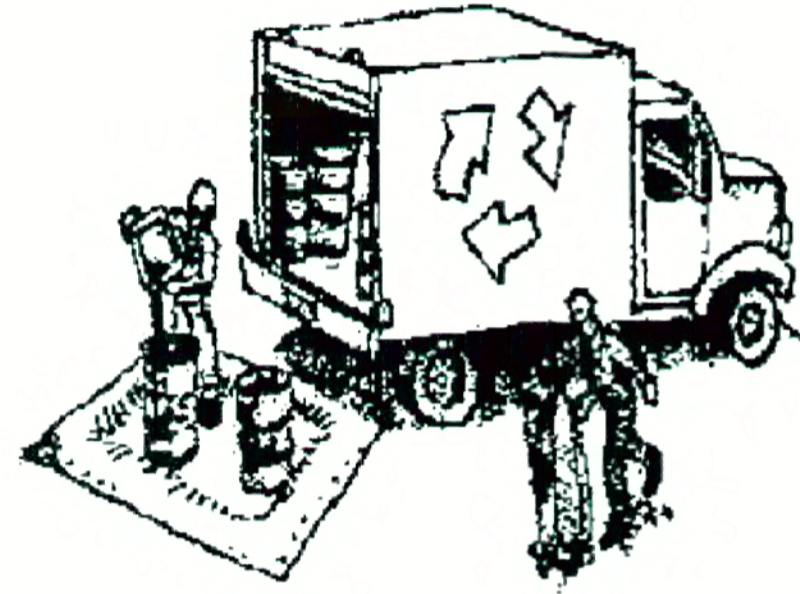
REVISIONS	BY
JOB NO:	216026
DATE:	XX-2XX+XX
SCALE:	AS NOTED
DESIGN BY:	WCC
DRAWN BY:	DR
SHEET NO:	

C4.2

Construction Best Management Practices (BMPs)

Construction projects are required to implement the stormwater best management practices (BMP) on this page, as they apply to your project, all year long.

Materials & Waste Management



Non-Hazardous Materials

- Berm and cover stockpiles of sand, dirt or other construction material with tarps when rain is forecast or if not actively being used within 14 days.
- Use (but don't overuse) reclaimed water for dust control.

Hazardous Materials

- Label all hazardous materials and hazardous wastes (such as pesticides, paints, thinners, solvents, fuel, oil, and antifreeze) in accordance with city, county, state and federal regulations.
- Store hazardous materials and wastes in water tight containers, store in appropriate secondary containment, and cover them at the end of every work day or during wet weather or when rain is forecast.
- 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.
- Arrange for appropriate disposal of all hazardous wastes.

Waste Management

- Cover waste disposal containers securely with tarps at the end of every work day and during wet weather.
- Check waste disposal containers frequently for leaks and to make sure they are not overfilled. Never hose down a dumpster on the construction site.
- Clean or replace portable toilets, and inspect them frequently for leaks and spills.
- Dispose of all wastes and debris properly. Recycle materials and wastes that can be recycled (such as asphalt, concrete, aggregate base materials, wood, gyp board, pipe, etc.)
- Dispose of liquid residues from paints, thinners, solvents, glues, and cleaning fluids as hazardous waste.

Construction Entrances and Perimeter

- Establish and maintain effective perimeter controls and stabilize all construction entrances and exits to sufficiently control erosion and sediment discharges from site and tracking off site.
- Sweep or vacuum any street tracking immediately and secure sediment source to prevent further tracking. Never hose down streets to clean up tracking.

Equipment Management & Spill Control



Maintenance and Parking

- Designate an area, fitted with appropriate BMPs, for vehicle and equipment parking and storage.
- Perform major maintenance, repair jobs, and vehicle and equipment washing off site.
- If refueling or vehicle maintenance must be done onsite, work in a bermed area away from storm drains and over a drip pan big enough to collect fluids. Recycle or dispose of fluids as hazardous waste.
- If vehicle or equipment cleaning must be done onsite, clean with water only in a bermed area that will not allow rinse water to run into gutters, streets, storm drains, or surface waters.
- Do not clean vehicle or equipment onsite using soaps, solvents, degreasers, steam cleaning equipment, etc.

Spill Prevention and Control

- Keep spill cleanup materials (rags, absorbents, etc.) available at the construction site at all times.
- Inspect vehicles and equipment frequently for and repair leaks promptly. Use drip pans to catch leaks until repairs are made.
- Clean up spills or leaks immediately and dispose of cleanup materials properly.
- Do not hose down surfaces where fluids have spilled. Use dry cleanup methods (absorbent materials, cat litter, and/or rags).
- Sweep up spilled dry materials immediately. Do not try to wash them away with water, or bury them.
- Clean up spills on dirt areas by digging up and properly disposing of contaminated soil.
- Report significant spills immediately. You are required by law to report all significant releases of hazardous materials, including oil. To report a spill: 1) Dial 911 or your local emergency response number, 2) Call the Governor's Office of Emergency Services Warning Center, (800) 852-7550 (24 hours).

Earthwork & Contaminated Soils



Erosion Control

- Schedule grading and excavation work for dry weather only.
- Stabilize all denuded areas, install and maintain temporary erosion controls (such as erosion control fabric or bonded fiber matrix) until vegetation is established.
- Seed or plant vegetation for erosion control on slopes or where construction is not immediately planned.

Sediment Control

- Protect storm drain inlets, gutters, ditches, and drainage courses with appropriate BMPs, such as gravel bags, fiber rolls, berms, etc.
- Prevent sediment from migrating offsite by installing and maintaining sediment controls, such as fiber rolls, silt fences, or sediment basins.
- Keep excavated soil on the site where it will not collect into the street.
- Transfer excavated materials to dump trucks on the site, not in the street.
- Contaminated Soils
- If any of the following conditions are observed, test for contamination and contact the Regional Water Quality Control Board:
 - Unusual soil conditions, discoloration, or odor.
 - Abandoned underground tanks.
 - Abandoned wells
 - Buried barrels, debris, or trash.

Paving/Asphalt Work

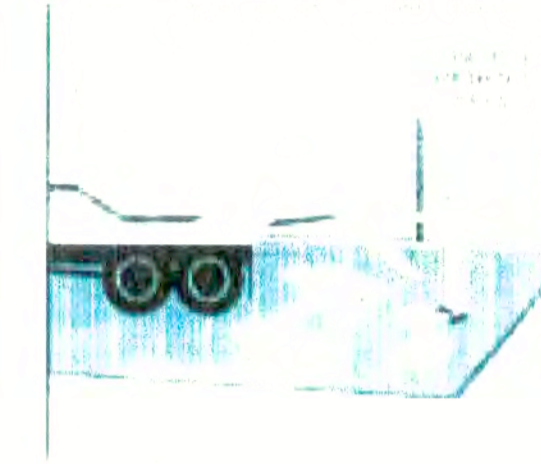


- Avoid paving and seal coating in wet weather, or when rain is forecast before fresh pavement will have time to cure.
- Cover storm drain inlets and manholes when applying seal coat, tack coat, slurry seal, fog seal, etc.
- Collect and recycle or appropriately dispose of excess abrasive gravel or sand. Do NOT sweep or wash it into gutters.
- Do not use water to wash down fresh asphalt concrete pavement.

Sawcutting & Asphalt/Concrete Removal

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

Concrete, Grout & Mortar Application



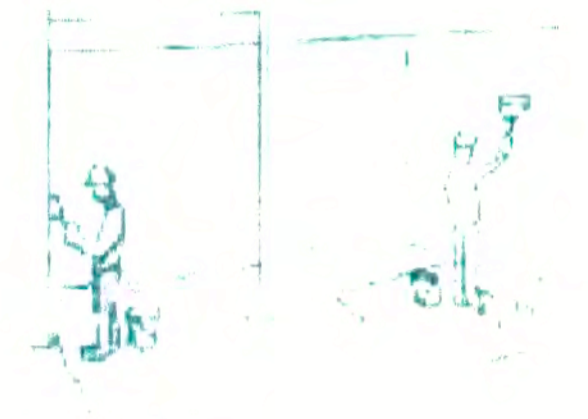
- Store concrete, grout and mortar under cover, on pallets and away from drainage areas. These materials must never reach a storm drain.
- Wash out concrete equipment/trucks offsite or in a contained area, so there is no discharge into the underlying soil or onto surrounding areas. Let concrete harden and dispose of as garbage.
- Collect the wash water from washing exposed aggregate concrete and remove it for appropriate disposal offsite.

Dewatering



- Effectively manage all run-on, all runoff within the site, and all runoff that discharges from the site. Divert run-on water from offsite away from all disturbed areas or otherwise ensure compliance.
- When dewatering, notify and obtain approval from the local municipality 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 Engineer to determine whether testing is required and how to interpret results. Contaminated groundwater must be treated or hauled off-site for proper disposal.

Painting & Paint Removal



Painting cleanup

- Never clean brushes or rinse paint containers into a street, gutter, storm drain, or surface waters.
- For water-based paints, paint out brushes to the extent possible. Rinse to the sanitary sewer once you have gained permission from the local wastewater treatment authority. Never pour paint down a drain.
- For oil-based paints, paint out brushes to the extent possible and clean with thinner or solvent in a proper container. Filter and reuse thinners and solvents. Dispose of residue and unusable thinner/solvents as hazardous waste.

Paint removal

- Chemical paint stripping residue and chips and dust from marine paints or paints containing lead or tributyltin must be disposed of as hazardous waste.
- Paint chips and dust from non-hazardous dry stripping and sand blasting may be swept up or collected in plastic drop cloths and disposed of as trash.

Landscape Materials



- Contain stockpiled landscaping materials by storing them under tarps when they are not actively being used.
- Stack erodible landscape material on pallets. Cover or store these materials when they are not actively being used or applied.
- Discontinue application of any erodible landscape material within 2 days before a forecast rain event or during wet weather.

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



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GAS STATION AND CAR WASH
EXPANSION AND UPGRADE
438 WEST TENNYSON RD.
HAYWARD, CALIFORNIA
ALAMEDA COUNTY APN: 465-0001-002

CONSTRUCTION
BEST MANAGEMENT
PRACTICES (SWPPP)

REVISIONS	BY
JOB NO:	216026
DATE:	3-21-17
SCALE:	AS NOTED
DESIGN BY:	WCC
DRAWN BY:	DR
SHEET NO:	

C4.3

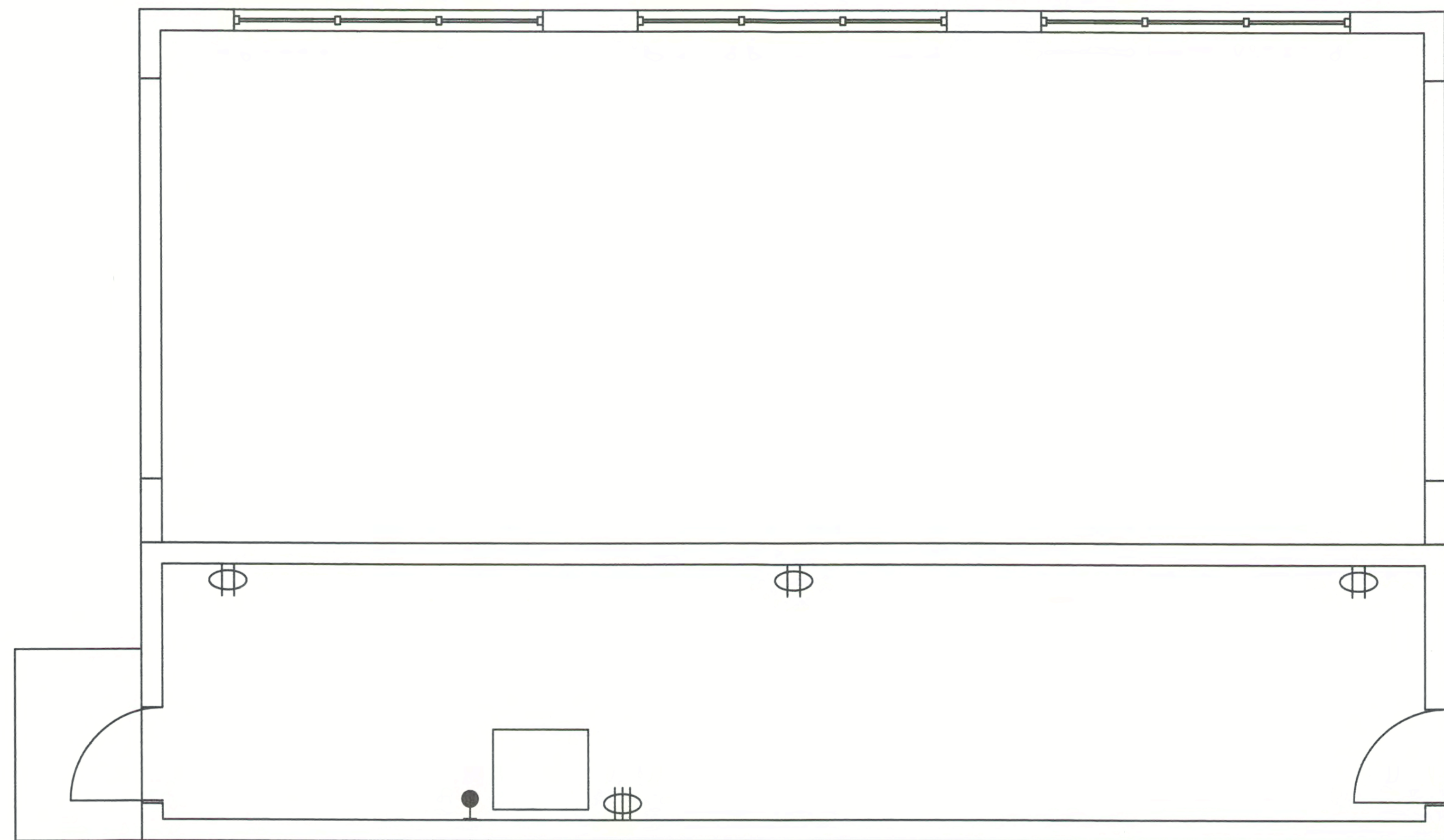
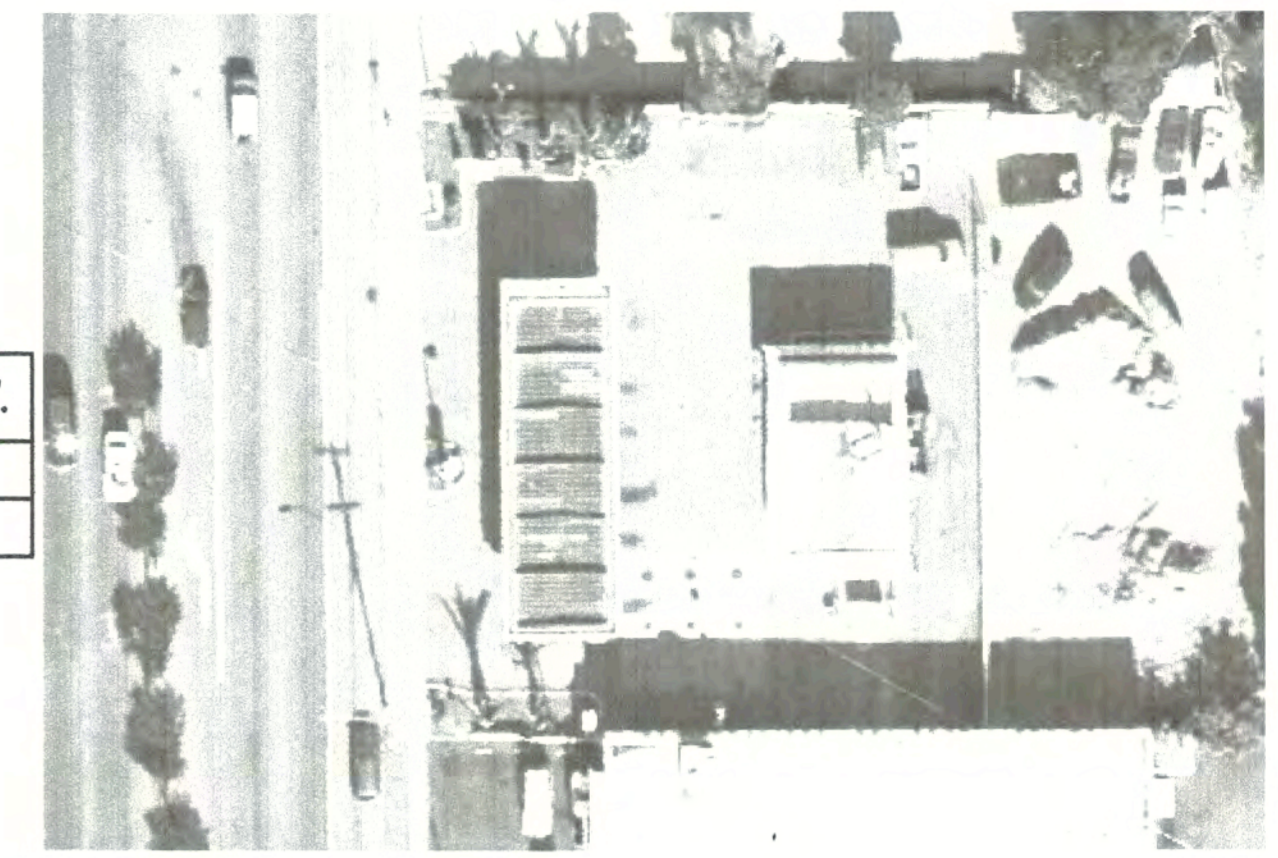
SONNY'S CARWASH DESIGN SERVICES

PROJECT: "PETER XU-HAYWARD"

Prefix	Project N°	Sheet	Sheet Title
CWP	-15442-C11-	0	(INDEX)
CWP	-15442-C11-	00	(RENDERED TUNNEL LAYOUT)
CWP	-15442-C11-	01	(SITE LAYOUT)
CWP	-15442-C11-	02	(TRENCH PIT LAYOUT; <u>GC</u>)
CWP	-15442-C11-	L.1	(EQUIPMENT LAYOUT)
CWP	-15442-C11-	L.2	(EQ. TUNNEL DESCRIPTION)
CWP	-15442-C11-	L.3	(TUNNEL EQUIPMENT INSTALLATION)
CWP	-15442-C11-	B.1	(EQ. SUPPORT DESCRIPTION)
CWP	-15442-C11-	M.1	(EQUIPMENT LIST-1)
CWP	-15442-C11-	M.2	(EQUIPMENT LIST-2)
CWP	-15442-C11-	P.1	(PLUMBING; <u>GC</u>)
CWP	-15442-C11-	P.3	(COLD WATER; <u>GC</u>)
CWP	-15442-C11-	P.7	(RECLAIM WATER.; <u>GC</u>)
CWP	-15442-C11-	P.8	(RECLAIM TANK SYSTEM; <u>GC</u>)
CWP	-15442-C11-	P.8A	(TRASH PIT; <u>GC</u>)
CWP	-15442-C11-	P.9	(RECLAIM SYSTEM; <u>GC</u>)
CWP	-15442-C11-	P.10	(PNEUMATIC; <u>GC</u>)
CWP	-15442-C11-	P.12	(CHASE WAY; <u>GC</u>)
CWP	-15442-C11-	P.13	(CORED HOLES; <u>GC</u>)
CWP	-15442-C11-	P.14	(LEGEND)
CWP	-15442-C11-	P.15	(DIVISION OF WORK)
CWP	-15442-C11-	V.2	(VACUUM LAYOUT; <u>GC</u>)
CWP	-15442-C11-	V.3	(VACUUM LAYOUT; <u>GC</u>)
CWP	-15442-C11-	V.4	(VACUUM LAYOUT; <u>GC</u>)
CWP	-15442-C11-	V.5	(VACUUM LAYOUT; <u>GC</u>)
CWP	-15442-C11-	E.1	(ELECTRICAL; <u>GC</u>)
CWP	-15442-C11-	E.2	(CONTROL VOLTAGE; <u>GC</u>)
CWP	-15442-C11-	E.3	(MOTOR RUNS; <u>GC</u>)
CWP	-15442-C11-	E.4	(ONE LINE ELECTRICAL)
CWP	-15442-C11-	E.5	(ELECTRICAL PANEL; <u>GC</u>)
CWP	-15442-C11-	E.6	(DIVISION OF WORK/LEGEND; ELECTRICAL)
CWP	-15442-C11-	E.7	(TIMING DISTANCES)
CWC	-15442-C11-	C.1	(SECTION THRU CORRELATOR; <u>GC</u>)
CWT	-15442-C11-	T.1	(CONV. TRENCH PLAN VIEW)
CWT	-15442-C11-	S.1	(SECTION THRU CONV. & PIT; <u>GC</u>)
CWT	-15442-C11-	S.2	(SECTION THRU TUNNEL; <u>GC</u>)
CWT	-15442-C11-	S.3	(SECTION THRU CONV.; <u>GC</u>)

DATE	SYM.	REVISION RECORD	TIME	DR.	AUTH.
07/14/17	A	NEW EQUIPMENT; REMOVED SITE	12 HRS	AC	LV
SUPERSEDES DWG. OF: 04/14/16					

NEW ITEMS	DELETED ITEMS
5-2	5-4
10-9	10-13
39-C	39-B



DATE:	11.11.15
REVISION DATE:	07.14.17
CREATED BY:	LV
REVISED BY:	ADC
CHECKED BY:	Luis V.

SONNY'S
The CarWash Factory
http://www.SonnysDirect.com

SHEET INDEX

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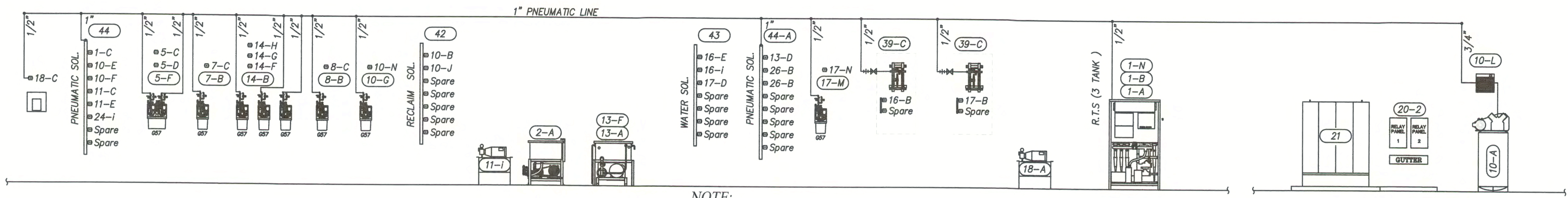
Hands-On Training!

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CWP-15442-C11-XU
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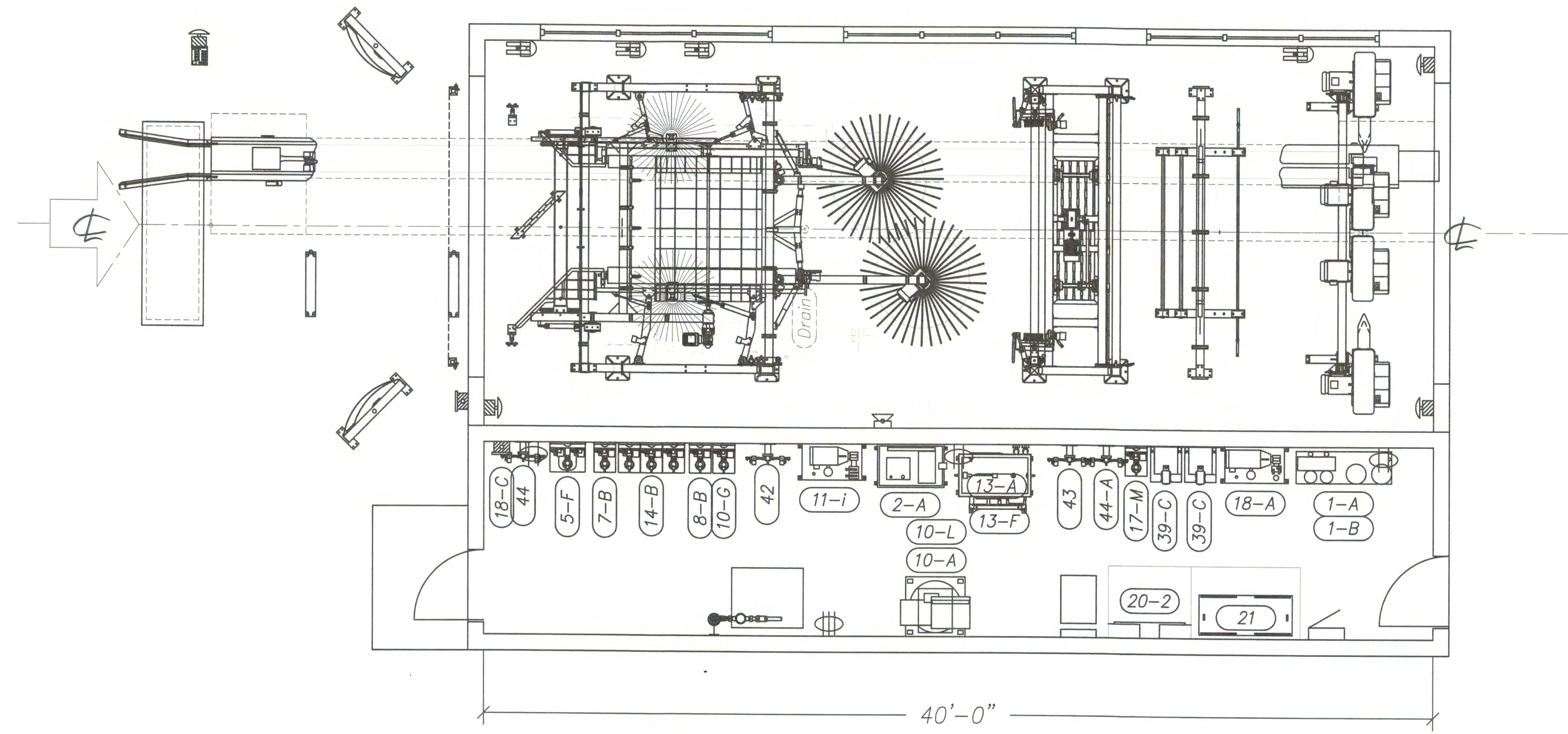
Sheet	Rev.
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PNEUMATIC

TUNNEL WALL EQUIPMENT ROOM

NOTE:
 1-SEE LEGEND SHEET
 2-CONNECTIONS SHOWN IN THE ELEVATION VIEW ARE SCHEMATIC ONLY. REFER TO PLAN VIEWS FOR PLACEMENT.



NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.
 APPROVED BY: _____ DATE _____

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CWP-15442-C11-XU
 SCALE: 3/16"=1' LOCATION: CA

Sheet Rev.
 P.10 -A-

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REVISION DATE:	07.14.17
CREATED BY:	LV
REVISED BY:	ADC
CHECKED BY:	Luis V.

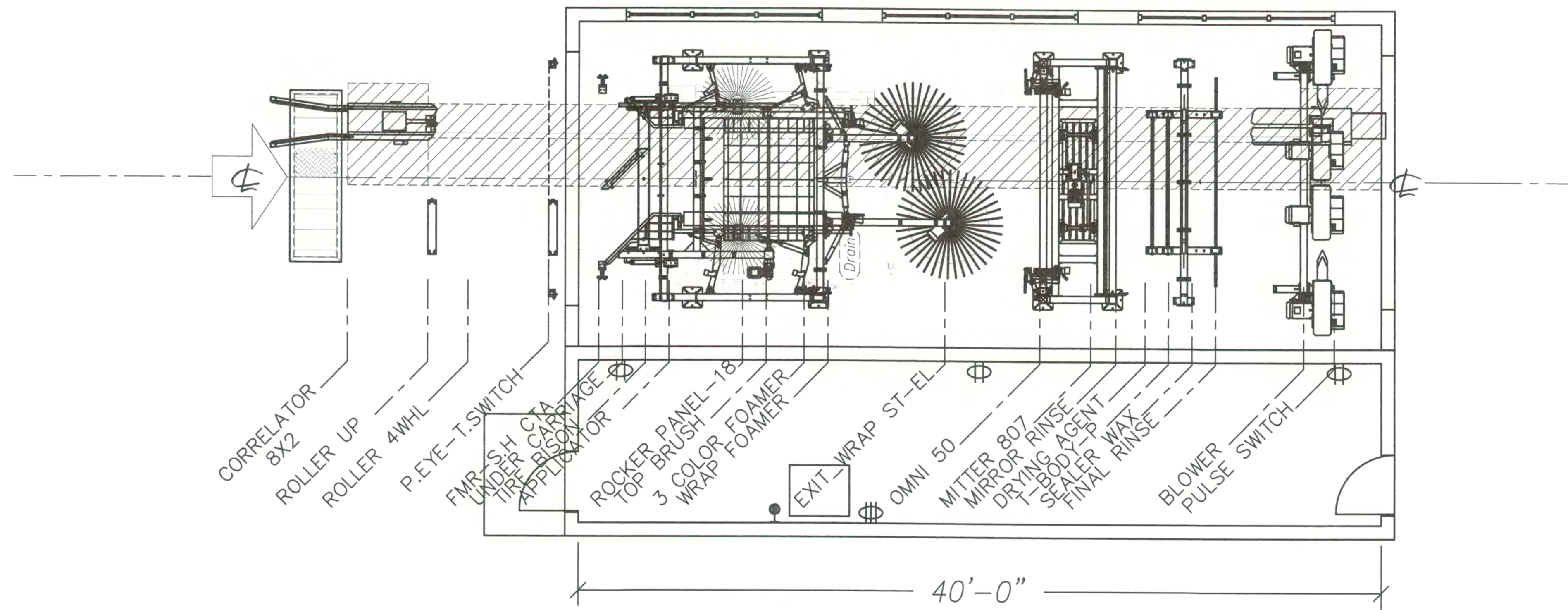
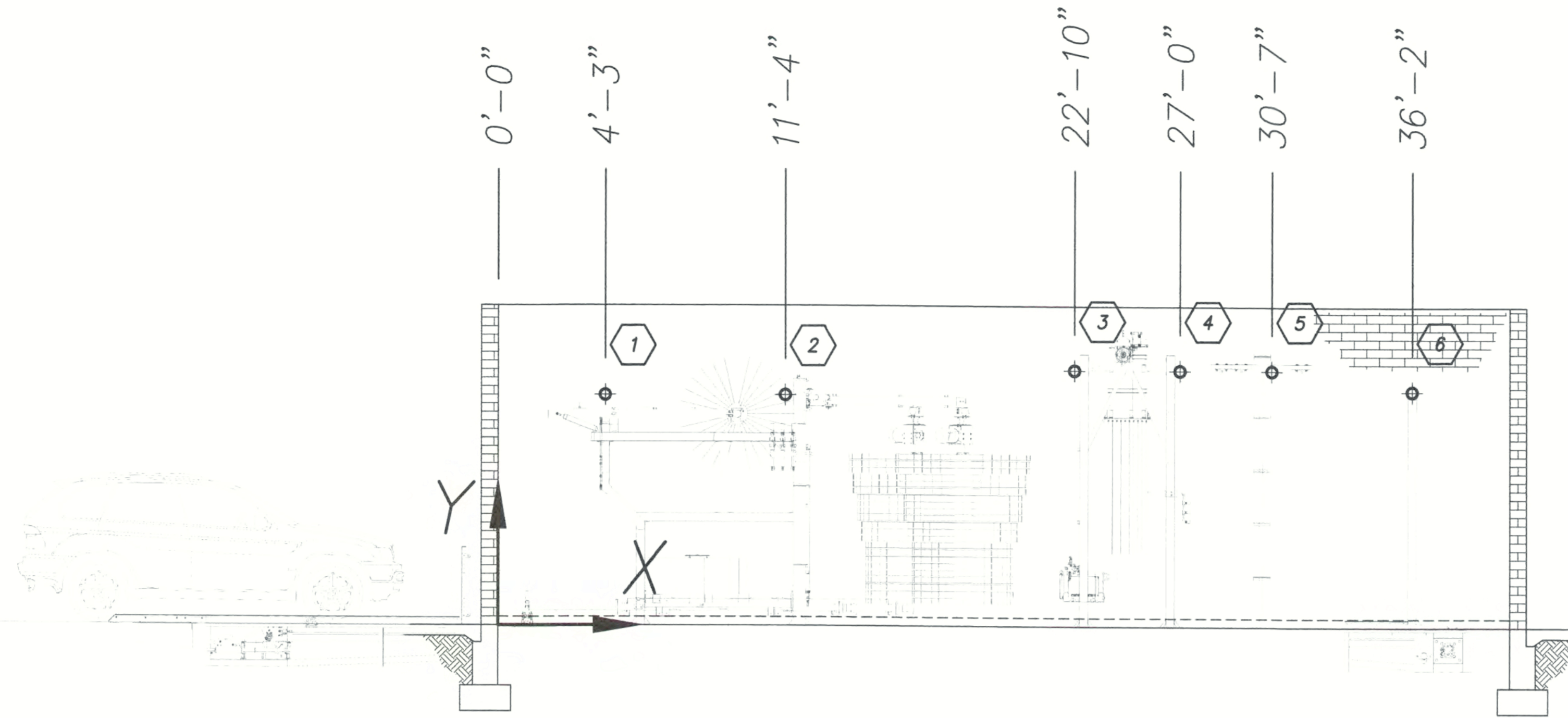
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ELEVATION

Ø 4-1/2" OPENING IN WALL
 WALL Ø 4" PVC PIPE &
 FINISH CAULKING BY GC.

REF.	COORD. C-LINE	Y
	Equipments	
1	TOP BRUSH COMBO	108"
2	TOP BRUSH COMBO	108"
3	MITTER SFM807	120"
4	MITTER SFM807	120"
5	RAINMA ARCH 10'	120"
6	BLOWER ARCH/S	108"



NOTES:

PRELIMINARY LAYOUT. FINAL LAYOUT SUBJECT TO FINAL EQUIPMENT LIST APPROVAL DO NOT CORE UNTIL APPROVED BY INSTALLER.

NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.

 APPROVED BY. DATE

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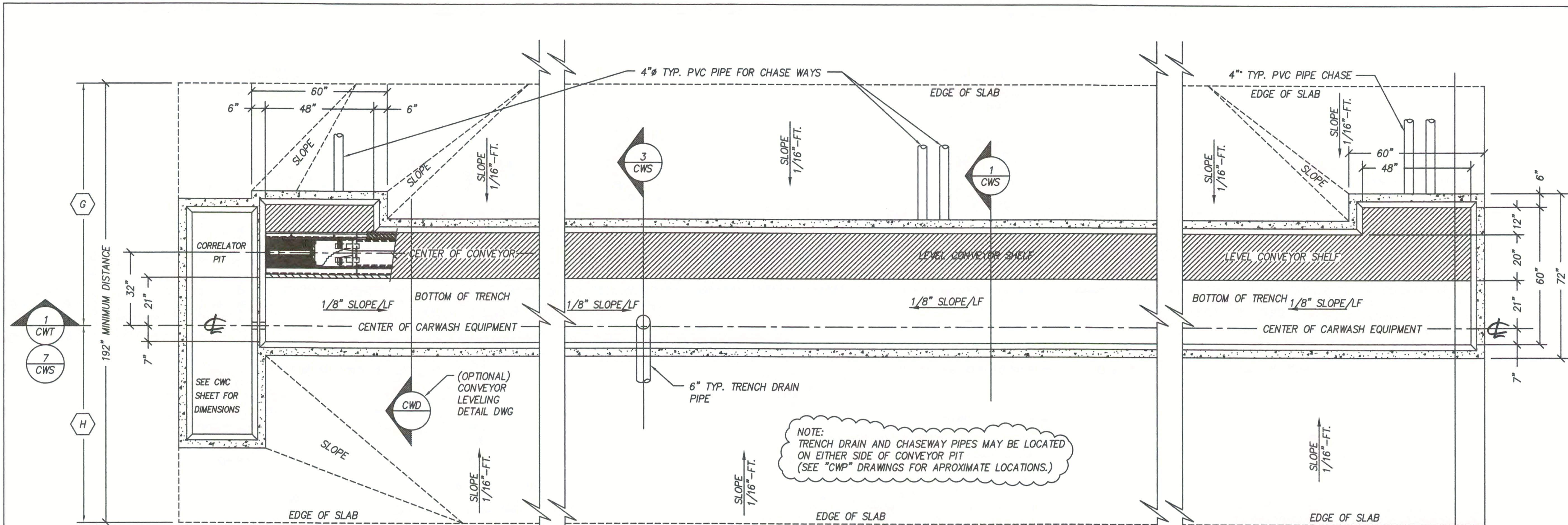
CWP-15442-C11-XU
 SCALE: 1/8"=1' LOCATION: CA

Sheet Rev.
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DATE:	11.11.15
REVISION DATE:	07.14.17
CREATED BY:	LV
REVISED BY:	ADC
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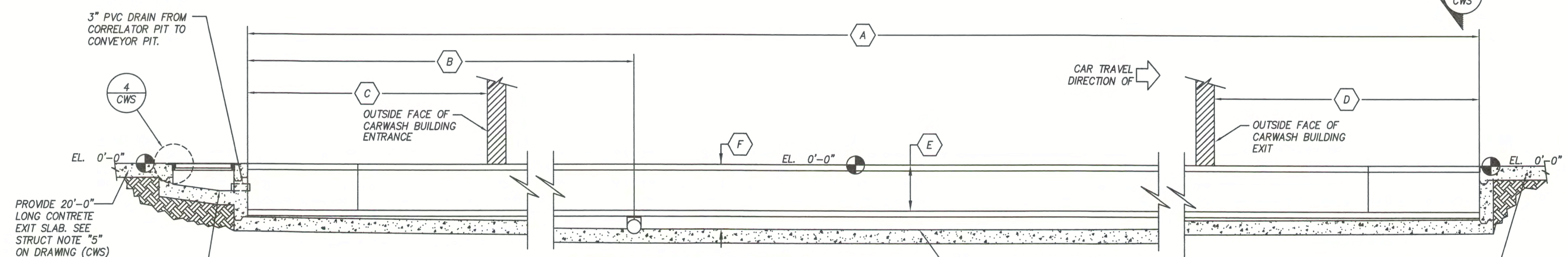
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18-1 TRENCH PLAN VIEW

NOTE: TRENCH DRAIN AND CHASEWAY PIPES MAY BE LOCATED ON EITHER SIDE OF CONVEYOR PIT (SEE "CWP" DRAWINGS FOR APPROXIMATE LOCATIONS.)



DIMENSION LEGEND		
TAG	DESCRIPTION	DIMENSION
A	TRENCH CONVEYOR PIT LENGTH	51'6"
B	CENTER LINE DRAIN EDGE OF CONVEYOR PIT	25'-0"
C	TRENCH PIT OUTSIDE BUILDING (ENTRANCE)	10'-10"
D	TRENCH PIT OUTSIDE BUILDING (EXIT)	N/A
E	CONVEYOR SHELF DEPTH FRONT-W-PULL=21-3/4" REAR-W-PUSH=19-3/4"	21-3/4"
F	MAX DEPTH OF TRENCH	28"
G	CENTERLINE OF EQUIPMENT TO DRIVERS SIDE WALL	7'-9"
H	CENTERLINE OF EQUIPMENT TO PASSENGER SIDE WALL	8'-3"

NOTE:
 - THE FINISHED FLOOR SHOULD BE LEVEL FROM ENTRANCE TO EXIT, HOWEVER, A 1" RISE EVERY 50 FT IS PERMISSIBLE WITH A MAXIMUM 2" RISE OVER THE ENTIRE LENGTH.
 - SEE TYPICAL TRENCH SECTION FOR REQUIRED CONSTRUCTION TOLERANCES FOR TRENCH CONSTRUCTION.

THE ELEVATION OF THE LEVEL AREA OF CONVEYOR PIT SHALL BE DETERMINED BY THE ARCH / ENGINEER OR RECORD. WHEN POSSIBLE, THE ELEVATION SHALL BE SET SO THAT THE DRAIN PIPES SLOPE A MIN. OF 1/8" PER FT. FROM THE TRENCH TO THE RECLAMATION TANK OR TANKS AND THE CITY SEWER. IF POSITIVE DRAINAGE IS NOT POSSIBLE THEN A MECHANICAL PUMP STATION MUST BE DESIGNED. SONNYS RECOMMENDS A MINIMUM 1/8" PLF SLOPE FROM ENDS OF CONVEYOR TO LEVEL AREA ON TRENCH AT DRAINAGE PIPE.

PROVIDE 20'-0" LONG CONCRETE EXIT SLAB. SEE STRUCT NOTE "5" ON DRAWING (CWS)

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 APPROVED BY: _____ DATE: _____

TRENCH ELEVATION

1 CWT
18-1

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 SCALE: 1/4"=1'-0"

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CONVEYOR TRENCH PLAN VIEW
 CONVEYOR PIT DESIGN - NO DAM
 GENERIC (12-11)

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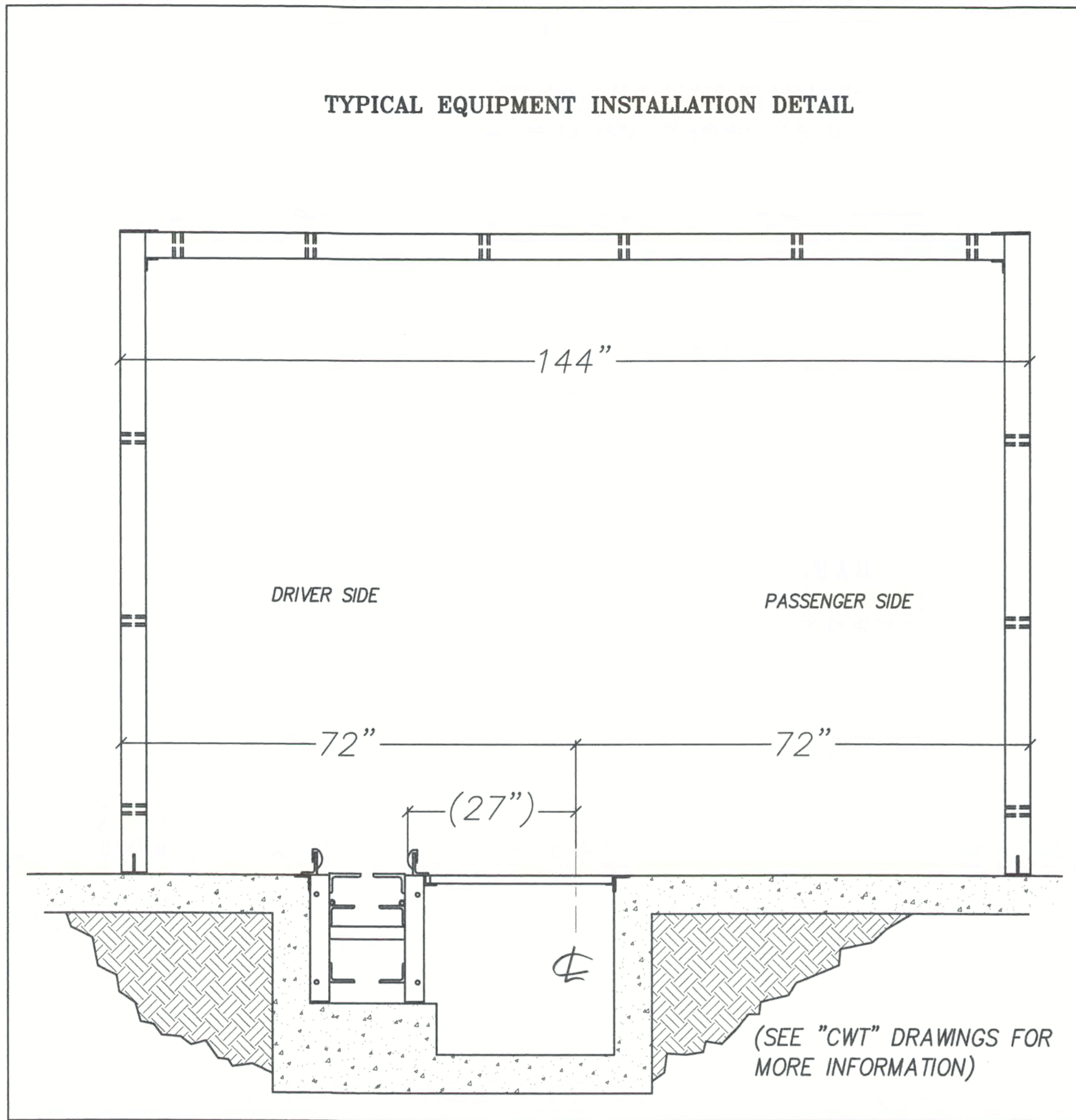
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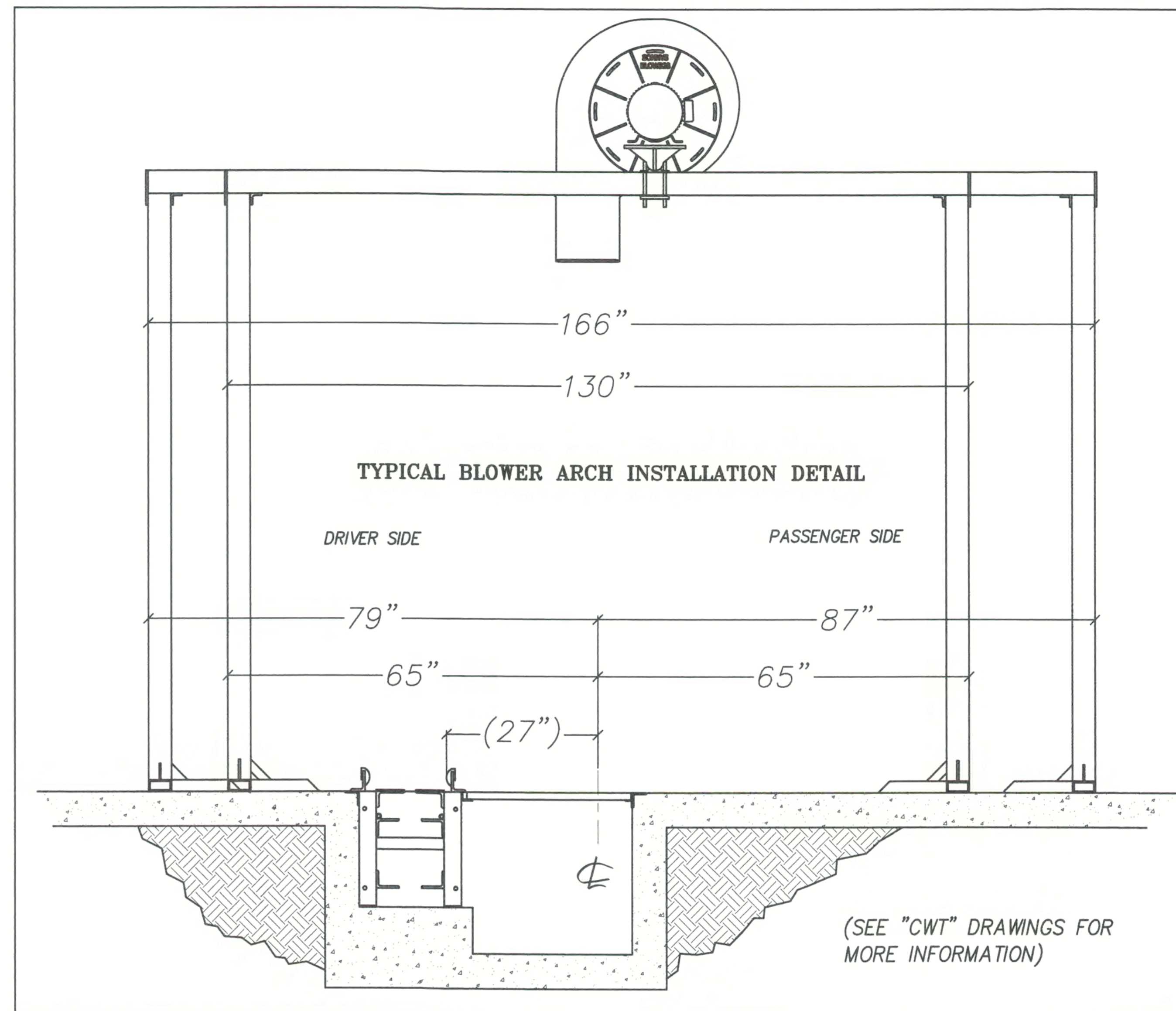
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EQUIPMENT INSTALLATION
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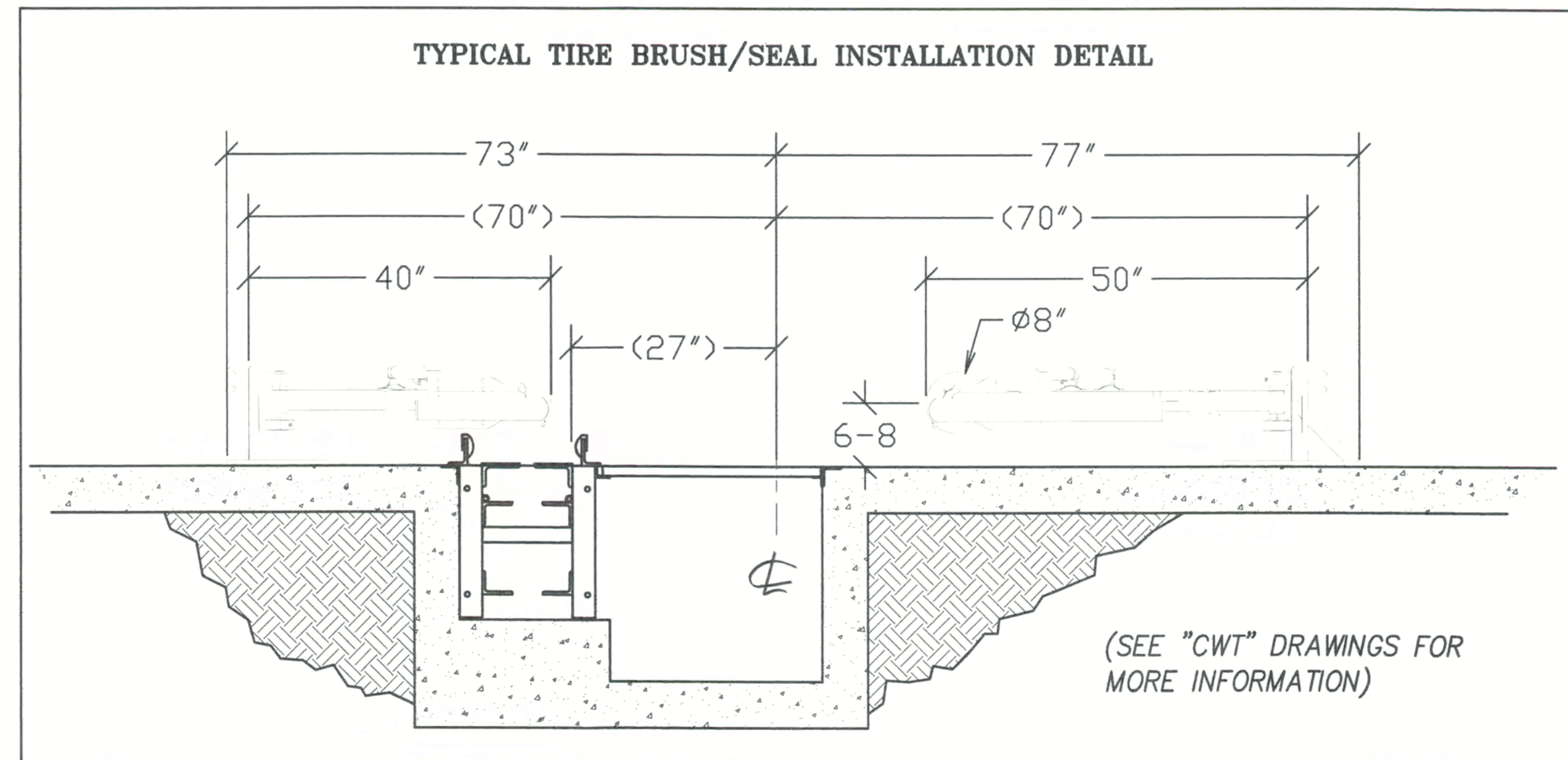
TYPICAL EQUIPMENT INSTALLATION DETAIL



TYPICAL BLOWER ARCH INSTALLATION DETAIL



TYPICAL TIRE BRUSH/SEAL INSTALLATION DETAIL



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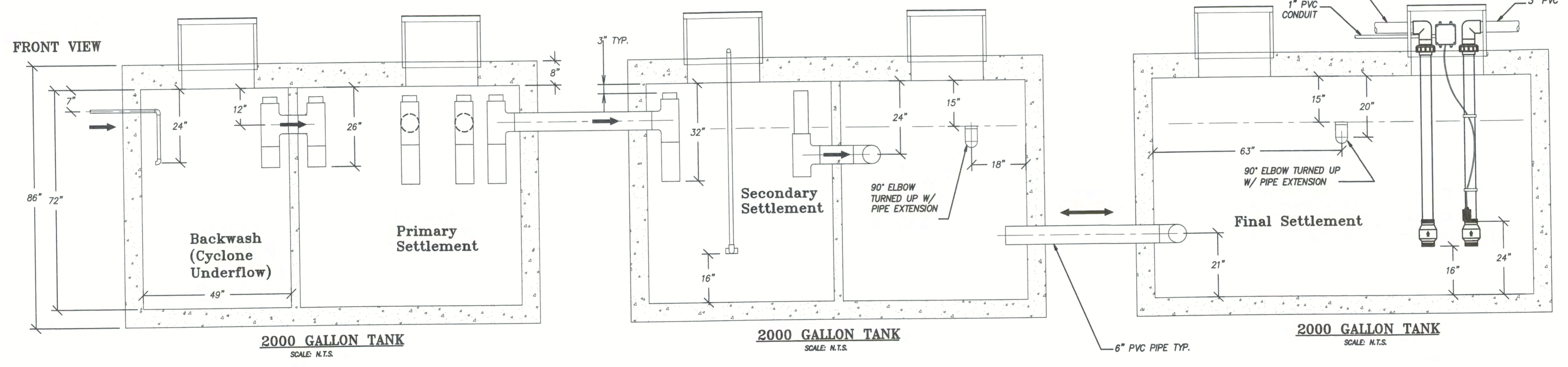
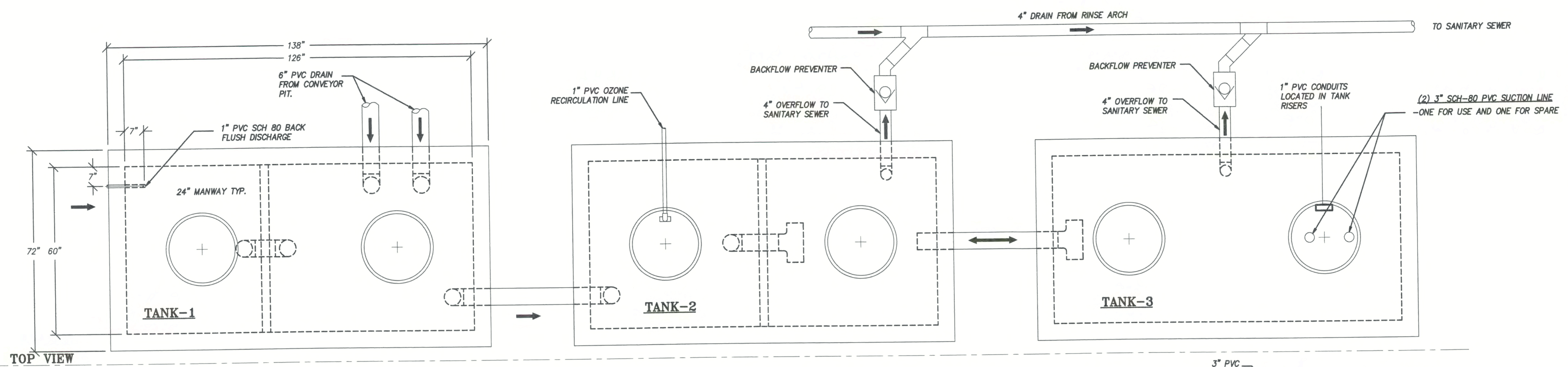
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NOTE:

1. Pressure Test All Suction Lines Upon Installation @ 10-15 PSI max.
2. Keep pressure on Suction Lines for the entire DURATION of construction.
3. Pressure should NOT drop more than 2 PSI.
4. Watch for problems when excavating driveways.
5. Placement of suction lines is critical
6. Do NOT put screens on the suction lines

**CAR WASH RECLAIM SYSTEM
STANDARD RECLAIM 3 TANK**

(SEE RECLAIM SHEET FOR DETAIL)

NOT FOR CONSTRUCTION UNTIL APPROVED BELOW.

APPROVED BY. _____ DATE _____

NOTE:

1. ALL UNDERGROUND TANKS AND PIPING BY CONTRACTOR
2. PIPE LOCATIONS SHOULD BE USED FOR ANY TANK
3. ALL INTERNAL TANK PLUMBING TO BE 6" sch 40 PVC UNLESS NOTED OTHERWISE
4. ALL TANK BOTTOMS SHOULD BE LEVEL
5. THIS DRAWING IS TO SHOW TANK HOLDING CAPACITY AND PIPING RELATIONSHIPS ONLY. THEY ARE NOT INTENDED TO ADDRESS TANK STRUCTURE ENGINEERING.

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