

**WARNING:** ALL INDIVIDUALS INTERESTED IN BIDDING ON THIS PROJECT MUST OBTAIN THE FINAL PLANS AND SPECIFICATIONS FROM THE DEPARTMENT MANAGING THE PROJECT OR AS OTHERWISE STATED IN THE ADVERTISEMENT FOR BIDS FOR THE PROJECT. DO NOT USE THE PLANS AND SPECIFICATIONS POSTED ON THE CLERK OF THE BOARD'S WEBSITE FOR BIDDING ON THIS PROJECT.



**CONTRACT DRAWINGS  
FOR THE CONSTRUCTION OF**

# **APPLE VALLEY AIRPORT WASH RACK PROJECT COUNTY PROJECT: 10.10.0696**

## **APPLE VALLEY AIRPORT SAN BERNARDINO COUNTY, CALIFORNIA**

COUNTY PROJECT: 10.10.0696

C&S PROJECT: K15.001.006

**OCTOBER 2023**

**FINAL**



LOCATION MAP

Oct 19, 2023 - 9:07am  
F:\Project\Y15 - County of San Bernardino\Y15001006 - Terminal Parking Lot\Design\CAD\Sheet Files\WASH RACK\Y15001006-WASH RACK G-001.dwg

---	RUNWAY/TAXIWAY CENTERLINE
---	EXISTING AIRPORT PROPERTY LINE
---	EXISTING ROAD
---	EXISTING FLOW LINE
-----2000-----	EXISTING CONTOUR LINE
○	EXISTING FENCE LINE
○	EXISTING DOUBLE SWING GATE
○	EXISTING CANTILEVER GATE
---	EXISTING BLOCK WALL
■	EXISTING PILASTER
---	EXISTING STORM DRAIN PIPE
---	EXISTING HEADWALL
EX W	EXISTING WATER LINE
W	EXISTING DOMESTIC WATER METER
○	EXISTING HYDRANT
⊗	EXISTING WATER VALVE
EX SS	EXISTING SANITARY SEWER LINE
○	EXISTING SANITARY SEWER MANHOLE
○	EXISTING SANITARY SEWER CLEANOUT
EX G	EXISTING GAS LINE
EX T	EXISTING UNDERGROUND TELEPHONE LINE
EX E	EXISTING UNDERGROUND ELECTRIC LINE
○	EXISTING POWER POLE
OH/E	EXISTING OVERHEAD ELECTRIC LINE
LP	EXISTING LIGHT POLE
UP	EXISTING UTILITY POLE
---	EXISTING GUY WIRE AND ANCHOR
⊗	EXISTING BOLLARD OR POST
○	EXISTING MONITORING WELL
○	EXISTING RUNWAY OR TAXIWAY EDGE LIGHT
---	EXISTING AIRFIELD GUIDANCE SIGN
△	EXISTING TRANSFORMER
▽	EXISTING WIND CONE
▽	EXISTING LIGHTED WIND CONE
EMH	EXISTING ELECTRICAL MANHOLE
E	EXISTING PULLBOX
---	EXISTING AIRFIELD LIGHTING CABLE IN TRENCH
---	EXISTING DUCT BANK
APV C	EXISTING SURVEY CONTROL POINT
---	EXISTING TAXIWAY EDGE LIGHT TO BE REMOVED
---	EXISTING BOLLARD OR POST TO BE REMOVED

---	EXISTING AIRFIELD LIGHTING CABLE IN TRENCH ABANDON IN PLACE
---	EXISTING STORM DRAIN PIPE TO BE REMOVED
⊗	FLAGPERSON LOCATION
A	BARRICADE LOCATION WITH WORK AREA DESIGNATION
---	WORK AREA LIMITS / STAGING AREAS
A	WORK AREA
30 16	PROPOSED CONTOUR LINE
19.28 FS	PROPOSED SPOT ELEVATION
SD	STORM DRAIN INLET PROTECTION
SF	PROPOSED SILT FENCE
○	PROPOSED GRAVEL BAGS
---	PROPOSED SAWCUT
---	PROPOSED EDGE OF PAVEMENT
---	PROPOSED CONSTRUCTION JOINT
---	EXISTING AC PAVEMENT AND BASE TO BE REMOVED
---	PROPOSED RECONSTRUCTION PAVEMENT LIMITS
---	PROPOSED CONCRETE
---	PROPOSED CULVERT OUTLET PROTECTION
---	PROPOSED TAXILANE CENTERLINE
---	PROPOSED RIBBON GUTTER
○	PROPOSED BOLLARD
E	PROPOSED ELECTRICAL LINE
W	PROPOSED WATER LINE
+	PROPOSED HOSE BIBB
---	PROPOSED STORM DRAIN PIPE
---	PROPOSED DUCT BANK
○	PROPOSED IN PAVEMENT LIGHT
●	PROPOSED BASE MOUNTED TAXILANE EDGE LIGHT
JC	PROPOSED JUNCTION CAN
SMH	PROPOSED SANITARY MANHOLE
EMH	PROPOSED ELECTRICAL MANHOLE

- THE CONTRACTOR'S ATTENTION IS DIRECTED TO SECTION 80, ATTACHMENT A - CONSTRUCTION SAFETY AND PHASING PLAN (CSPP) OF THE GENERAL PROVISIONS. PROJECT MAY BE COMPLETED BY THE COUNTY. THE ITEMS TO BE COMPLETED BY THE COUNTY WILL BE SPECIFIED PRIOR TO THE AWARD OF THE CONTRACT.
- THESE DRAWINGS HAVE BEEN PREPARED, IN PART, BASED UPON RECORD DRAWINGS AND/OR CAD FILES FURNISHED BY OTHERS. WHILE THIS INFORMATION IS BELIEVED TO BE RELIABLE, THOSE UTILIZING THE INFORMATION ON THESE DRAWINGS ARE ADVISED TO OBTAIN INDEPENDENT VERIFICATION OF ITS ACCURACY BEFORE USING IT FOR ANY PURPOSE.
- EXISTING UTILITIES WERE TAKEN FROM PLANS OF RECORD. THEY HAVE BEEN SHOWN TO THE EXTENT KNOWN AND ARE OFFERED IN GOOD FAITH SOLELY FOR INFORMATIONAL PURPOSES. THEY MAY NOT REFLECT ACTUAL LOCATIONS AND MAY NOT BE INCLUSIVE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE ALL UTILITIES PRIOR TO THE START OF CONSTRUCTION.
- IN THE EVENT OF DAMAGE TO EXISTING UTILITIES OR CABLES, THE ENGINEER AND OWNER SHALL BE NOTIFIED IMMEDIATELY.
- THE CONTRACTOR SHALL REPAIR ALL DAMAGE TO UTILITIES OR CABLES, AS DIRECTED BY THE ENGINEER, IMMEDIATELY AND AT THE CONTRACTOR'S EXPENSE.
- EXCAVATIONS GREATER THAN FOUR FEET IN DEPTH ARE ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS FOR "SHORING AND BRACING DRAWINGS" IN SECTION 6705 OF THE CALIFORNIA LABOR CODE. PRIOR TO BEGINNING ANY TRENCH OR STRUCTURE EXCAVATION EXCEEDING 4 FEET IN DEPTH, THE CONTRACTOR SHALL SUBMIT TO THE OWNER FOR ACCEPTANCE, A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS FOR WORKER PROTECTION AGAINST THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCHES OR STRUCTURE EXCAVATION. IF SUCH PLAN VARIES FROM THE SHORING SYSTEM ESTABLISHED IN THE CONSTRUCTION SAFETY ORDERS OF THE STATE OF CALIFORNIA, SUCH ALTERNATIVE SYSTEM PLANS SHALL BE PREPARED BY A LICENSED ENGINEER IN THE STATE OF CALIFORNIA.
- ALL AREAS DISTURBED AS A RESULT OF THE CONTRACTOR'S STAGING AND CONSTRUCTION OPERATIONS SHALL BE RESTORED EQUAL TO OR BETTER THAN ORIGINAL CONDITION AT THE CONTRACTOR'S EXPENSE.
- ALL DIRT, DUST, STONES AND LOOSE DEBRIS SHALL BE CONTINUOUSLY REMOVED FROM ALL PAVED SURFACES DURING THIS CONTRACT.
- ALL OF THE CONTRACTOR'S OPERATIONS SHALL REMAIN ON AIRPORT PROPERTY AT ALL TIMES. UNDER NO CIRCUMSTANCES WILL THE CONTRACTOR BE ALLOWED ON ADJACENT PROPERTY.
- THIS CONTRACT DOES NOT ALLOW FOR PRICE INCREASES DUE TO ESCALATION IN COST OF UNIT BID ITEMS. THE CONTRACTOR SHALL TAKE THIS INTO CONSIDERATION WHEN PREPARING UNIT PRICES FOR BID.
- THE COUNTY OF SAN BERNARDINO RESERVES THE RIGHT TO ELIMINATE ANY ITEMS OF THE CONTRACT AND PERFORM THESE ITEMS WITH COUNTY SUPPLIED FORCES AND MATERIALS. IT IS ESTIMATED THAT UP TO 8% OF THE
- ALL SPOIL SHALL BE DISPOSED OF OFF-SITE AT THE CONTRACTORS EXPENSE.
- ALL SOIL EROSION AND SEDIMENT CONTROL DEVICES AND MATERIALS SHALL BE IN PLACE PRIOR TO BEGINNING EARTHWORK OPERATIONS AND SHALL BE MAINTAINED UNTIL THE NEW SLOPES ARE STABILIZED WITH SEEDING AND/OR SLOPE PROTECTION.
- ALL ELEVATIONS REFER TO NAVD 88 VERTICAL DATUM. COORDINATES REFER NAD 83 HORIZONTAL DATUM.
- THE TOPOGRAPHIC FEATURES SHOWN HEREON WERE COMPILED FROM FIELD SURVEY PERFORMED BY ZONE SIX LAND SERVICES, INC. DATED 11-25-2013.
- TACK COAT SHALL BE APPLIED PRIOR TO PLACING EACH LIFT OF PAVEMENT, UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
- PROPOSED BITUMINOUS SURFACE COURSE TO BE INSTALLED IN PAVEMENT RECONSTRUCTION AREAS, SHALL BE SUBJECT TO THE SAME MATERIAL ACCEPTANCE CRITERIA AS THE TRUE AND LEVEL COURSE.
- ALL ELECTRICAL WORK SHALL CONFORM TO APPLICABLE LOCAL, STATE AND NATIONAL ELECTRICAL CODES.
- ALL CABLE CONNECTIONS SHALL BE MADE AT LIGHT UNITS OR AT ENDS OF DUCT BANKS UNLESS DIRECTED OTHERWISE.
- ALL ELECTRICAL EQUIPMENT REMOVED WHICH IS DESIRED BY THE OWNER TO BE SALVAGED SHALL BE TURNED OVER TO THE OWNER. THE EQUIPMENT SHALL BE STOCKPILED AT A LOCATION DESIGNATED BY THE OWNER IN PROPER WORKING CONDITION. ALL OTHER MATERIALS SHALL BE SPOILED OFF AIRPORT PROPERTY AT A PROPER DISPOSAL SITE AT THE CONTRACTOR'S EXPENSE.

**B1 LEGEND**  
NOT TO SCALE

**ZONE SIX LAND SERVICES, INC. NOTES:**  
TOPO OF TERMINAL PARKING LOT ON 11/15 & 11/25/13 FOR C&S COMPANIES  
B.M.: PRIMARY AIRPORT CONTROL STATION, STAINLESS STEEL ROD IN SLEEVE STAMPED "APV A 2002". EL=2978.0 FT (NAVD88), PER N.G.S.

**HORZ. DATUM:**  
NAD 83 (2007 EPOCH), SPC CA ZONE 5  
BASED ON N.G.S. POINTS APV A & APV C  
IE. N16°40'28"E

**NOTE:**  
ALL COORDINATES ARE GRID COORDINATES AND NOT SCALED TO GROUND.

**APV A:**  
N: 2032124.47  
E: 6805941.46

**UAPV C:**  
N: 2037059.99  
E: 6807419.80

SHEET REFERENCE NO.	TITLE
G-001	TITLE SHEET
G-002	GENERAL NOTES, ABBREVIATIONS AND LEGEND
G-101	GENERAL PLAN
G-102	CONSTRUCTION SAFETY PHASING PLAN AND DETAILS
CD101	WASH RACK DEMOLITION AND EROSION CONTROL PLAN
CG101	WASH RACK GRADING PLAN
CG501	PAVEMENT AND SITE DETAILS
CM101	WASH RACK GEOMETRY AND MARKING PLAN
E-100	ELECTRICAL SITE PLAN
E-101	WASH RACK ELECTRICAL PLAN
E-501	ELECTRICAL DETAILS AND ONE-LINE DIAGRAM

**B3 GENERAL NOTES**  
NOT TO SCALE

<p>ABAN. - ABANDONED APPROX. - APPROXIMATE ASPH. - ASPHALT BC - BEGIN CURVE BLDG. - BUILDING BM - BENCH MARK CO - CLEANOUT CONC. - CONCRETE CMP - CORRUGATED METAL PIPE CMPA - CORRUGATED ARCHED METAL PIPE CSP - CORRUGATED STEEL PIPE DIA. - DIAMETER EAPL - EXISTING AIRPORT PROPERTY LINE EC - END OF CURVE EG - EXISTING GRADE ELEV. - ELEVATION EOP - EDGE OF PAVEMENT FL - FLOW LINE FG - FINISH GRADE FND. - FOUNDATION FS - FINISH SURFACE</p>	<p>GB - GRADE BREAK HP - HIGH POINT IE - INVERT ELEVATION LT - LEFT LP - LOW POINT MAX. - MAXIMUM MIN. - MINIMUM MISC. - MISCELLANEOUS NA - NOT APPLICABLE OFA - OBJECT FREE AREA O.C. - ON CENTER O.W.S. - OIL WATER SEPARATOR PAVT. - PAVEMENT PC - POINT OF CURVATURE PCC - PORTLAND CEMENT CONCRETE PAVEMENT PI - POINT OF INTERSECTION PT - POINT OF TANGENCY PVC - POINT OF CURVATURE (VERTICAL CURVE) PVC - POLYVINYL CHLORIDE PIPE PVT - POINT OF TANGENCY (VERTICAL CURVE)</p>	<p>R - RADIUS RCP - REINFORCED CONCRETE PIPE ROFA - RUNWAY OBJECT FREE AREA RSA - RUNWAY SAFETY AREA ROW - RIGHT OF WAY RPZ - RUNWAY PROTECTION ZONE RT - RIGHT RW - RUNWAY SHDR. - SHOULDER STA. - STATION TC - TOP OF CURB TG - TOP OF GRATE TOFA - TAXIWAY OBJECT FREE AREA TSA - TAXIWAY SAFETY AREA TW - TOP OF WALL TYP. - TYPICAL</p>
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**A1 SURVEY NOTES**  
NOT TO SCALE

**A2 SHEET LIST**  
NOT TO SCALE

**A3 ABBREVIATIONS**  
NOT TO SCALE



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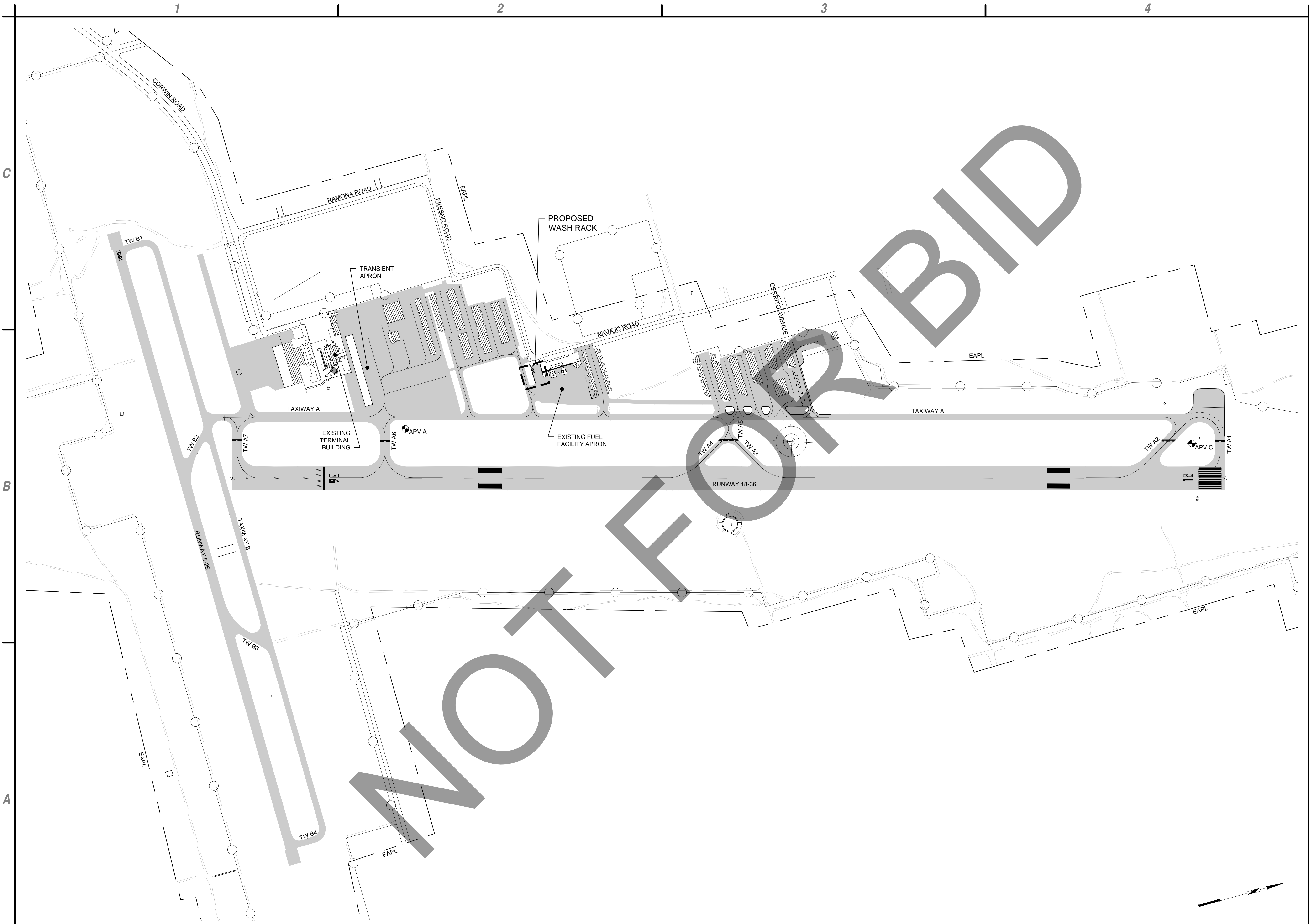
**APV WASH RACK  
PROJECT #10.10.0696  
21600 CORWIN ROAD  
APPLE VALLEY, CA, 92307  
SAN BERNARDINO COUNTY, CALIFORNIA**

Sep. 12, 2023 - 3:14pm  
 P:\Projects\1015 - County of San Bernardino\1015006 - Terminal Parking Lot\Design\CADD\Sheet - Final\WASH - RACK\15001006-WASH - RACK\_G-002.dwg

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO:	K15.001.006	
DATE:	SEPTEMBER 2023	
DRAWN BY:	STB	
DESIGNED BY:	BCS	
CHECKED BY:	ALW	

**GENERAL NOTES  
ABBREVIATIONS  
AND LEGEND**

**G-002**



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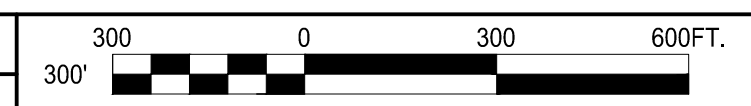
**APV WASH RACK**  
**PROJECT #10.10.0696**  
**21600 CORWIN ROAD**  
**APPLE VALLEY, CA, 92307**  
**SAN BERNARDINO COUNTY, CALIFORNIA**

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REVISIONS		
PROJECT NO:		K15.001.006
DATE:		SEPTEMBER 2023
DRAWN BY:		STB
DESIGNED BY:		BCS
CHECKED BY:		ALW

**GENERAL PLAN**

**G-101**

**A1 GENERAL PLAN**  
 SCALE: 1" = 300'



Sep 12, 2023 - 11:22pm  
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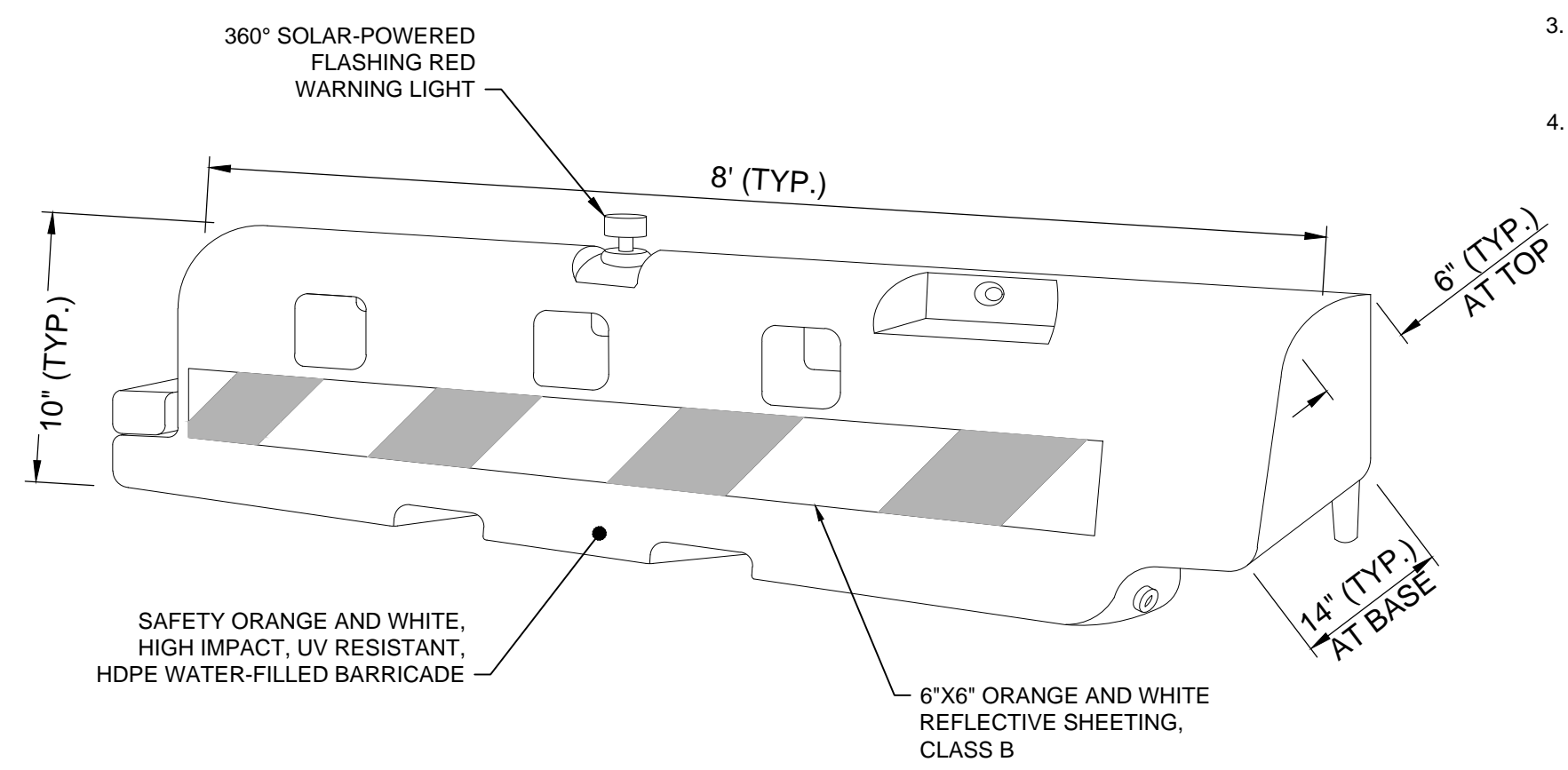
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MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K15.001.006		
DATE: SEPTEMBER 2023		
DRAWN BY: STB		
DESIGNED BY: BCS		
CHECKED BY: ALW		

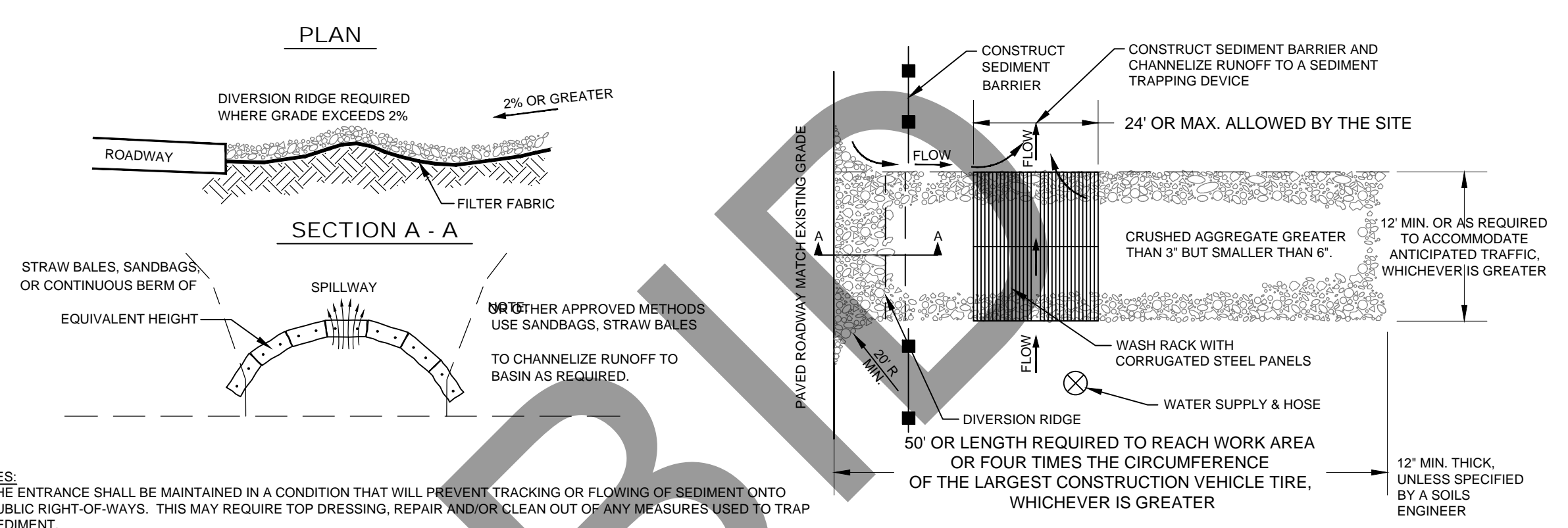
**CONSTRUCTION  
SAFETY PHASING  
PLAN**

**G-102**

- BARRICADE NOTES:**
- BARRICADES SHALL BE MANUFACTURED BY MULTI-BARRIER, MODEL AR 10 X 96, SHERWIN INDUSTRIES, INC., 2129 WEST MORGAN AVE., MILWAUKEE, WISCONSIN 53221, PHONE: 1-800-525-8876, OR APPROVED EQUAL.
  - FLAT, BIDIRECTIONAL WARNING LIGHTS WILL NOT BE ACCEPTABLE.
  - EXACT LOCATIONS SHALL BE DETERMINED DURING CONSTRUCTION. ALL BARRICADES SHALL BE PLACED AT WORK AREA LIMITS, OR AS OTHERWISE SHOWN ON PLANS.
  - BARRICADES MAY BE SPACED AT A MAXIMUM OF 6' APART.

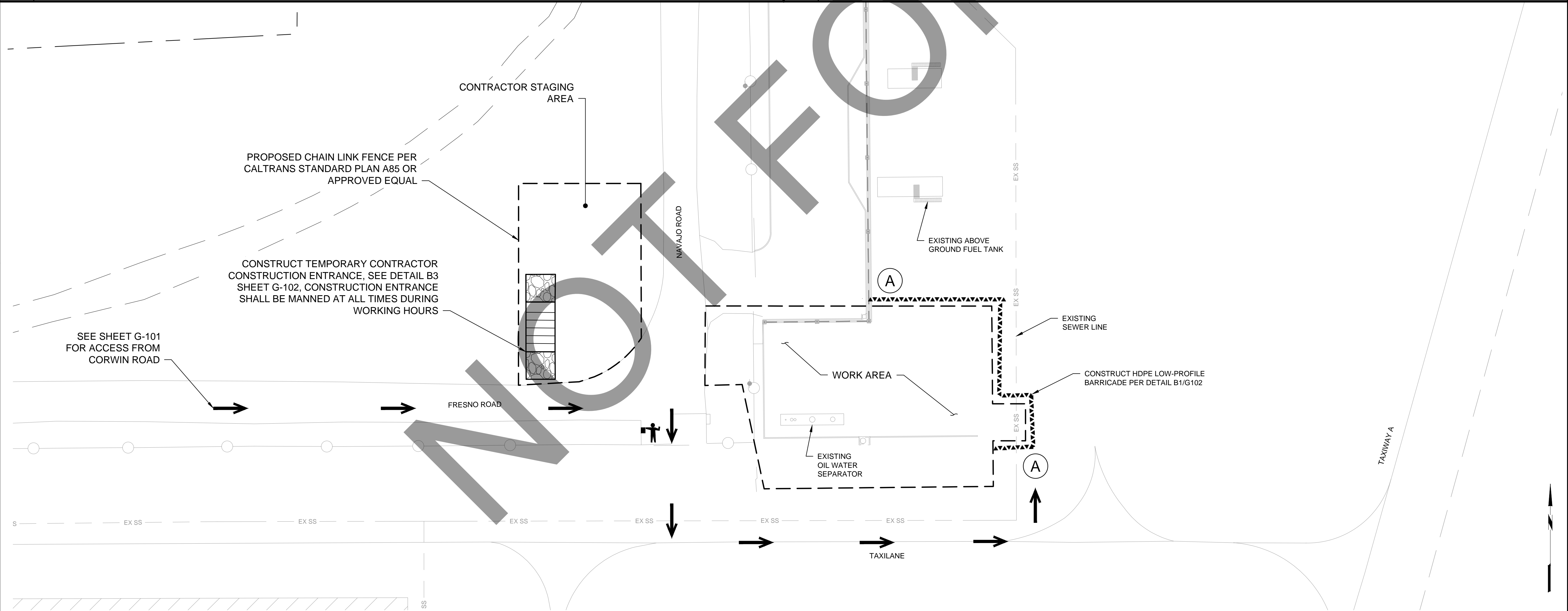


**B1 HDPE LOW-PROFILE BARRICADE DETAIL**  
SCALE: NOT TO SCALE

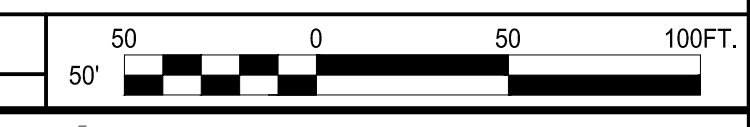


- NOTES:**
- THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION THAT WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PUBLIC RIGHT-OF-WAYS. THIS MAY REQUIRE TOP DRESSING, REPAIR AND/OR CLEAN OUT OF ANY MEASURES USED TO TRAP SEDIMENT.
  - WHEN NECESSARY, WHEELS SHALL BE CLEANED PRIOR TO ENTRANCE ONTO PUBLIC RIGHT-OF-WAY.
  - WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE THAT DRAINS INTO AN APPROVED SEDIMENT TRAP OR BASIN.

**B3 TEMPORARY CONSTRUCTION ENTRANCE DETAIL (ITEM P-156)**  
SCALE: NOT TO SCALE



**A1 WASH RACK SAFETY PHASING PLAN - WORK AREA A**  
SCALE: 1" = 30'



Underground Service Alert



Call: TOLL FREE  
"811"

TWO WORKING DAYS BEFORE YOU DIG

- ① SAWCUT TO PROVIDE A CLEAN VERTICAL FACE PER DETAIL A3/CG501. COORDINATE EXACT LOCATION WITH RESIDENT ENGINEER AT TIME OF CONSTRUCTION.
- ② PAVEMENT TO BE REMOVED, FULL DEPTH, SEE DETAIL B1 THIS SHEET.

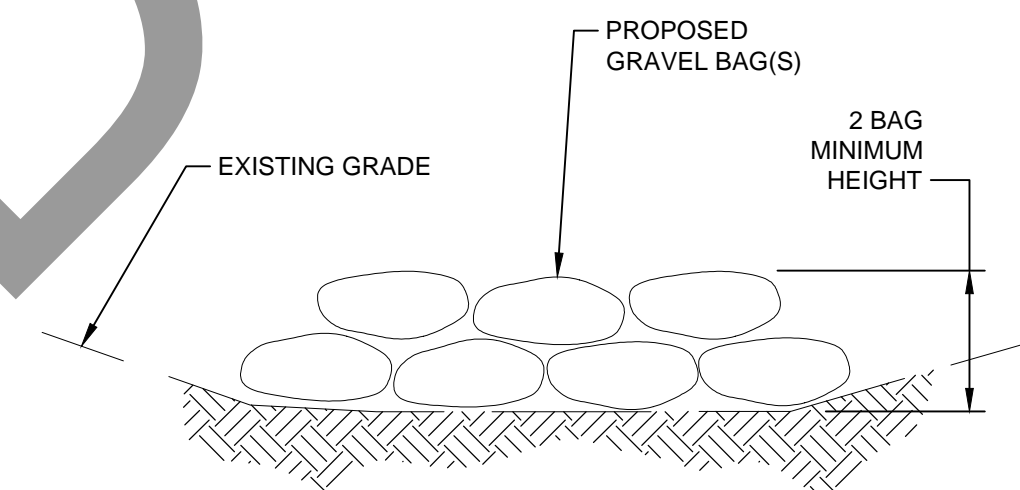
- 1. ALL UTILITIES SHALL BE PROTECTED IN PLACE.
- 2. COORDINATE SERVICE CONNECTION AND METER CONSTRUCTION WITH LIBERTY UTILITIES CONTRACTOR.
- 3. SEE DETAIL C1 ON THIS SHEET FOR GRAVEL BAG DETAIL.

**C2** NOTES  
NOT TO SCALE

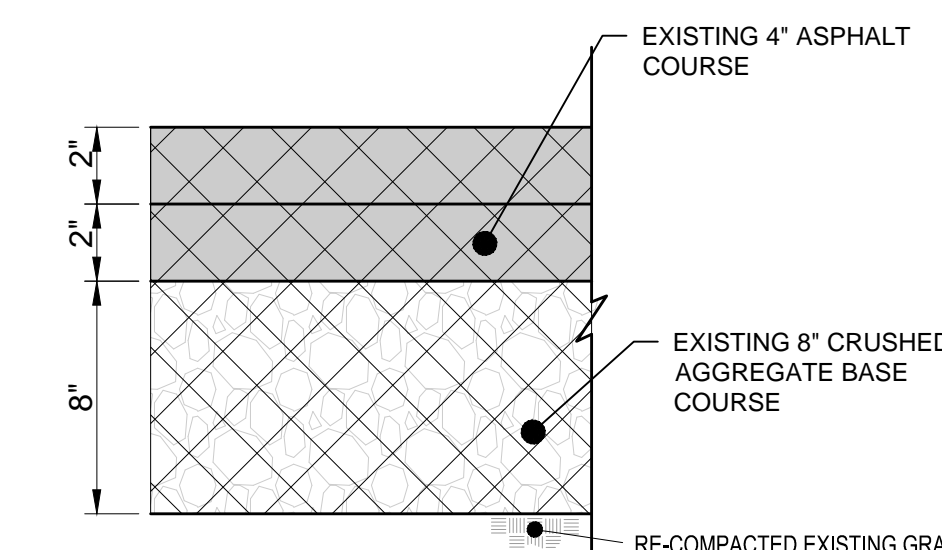
**C1** KEYNOTES  
NOT TO SCALE

NOTE TO CONTRACTOR:

- 1.) LOCATE ALL EXISTING UTILITIES HORIZONTAL AND VERTICAL PRIOR TO CONSTRUCTION.

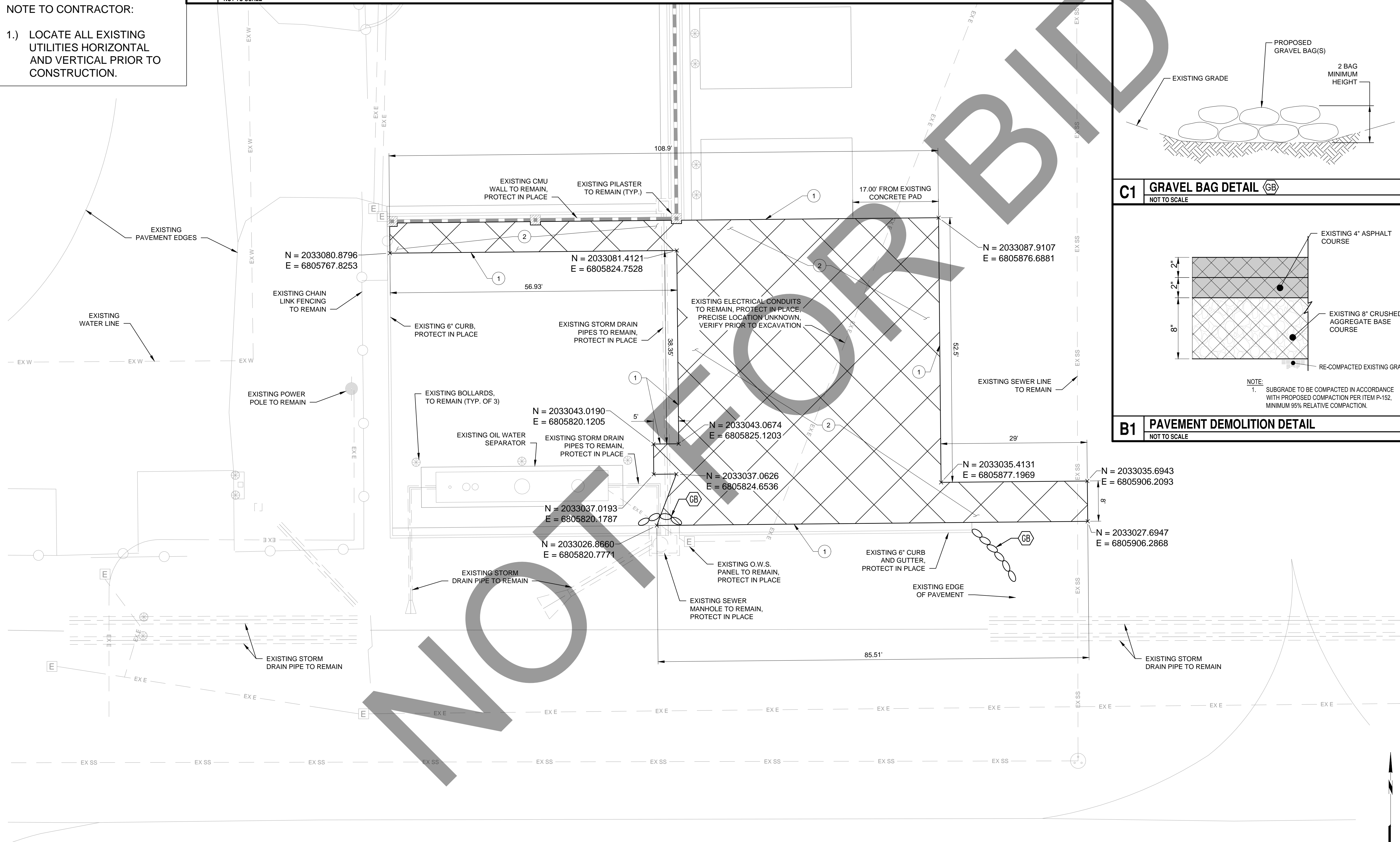


**C1** GRAVEL BAG DETAIL (GB)  
NOT TO SCALE



NOTE:  
1. SUBGRADE TO BE COMPACTED IN ACCORDANCE WITH PROPOSED COMPACTION PER ITEM P-152, MINIMUM 95% RELATIVE COMPACTION.

**B1** PAVEMENT DEMOLITION DETAIL  
NOT TO SCALE



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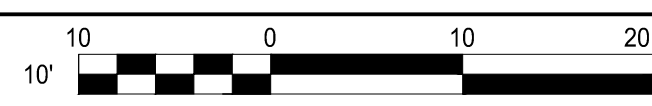
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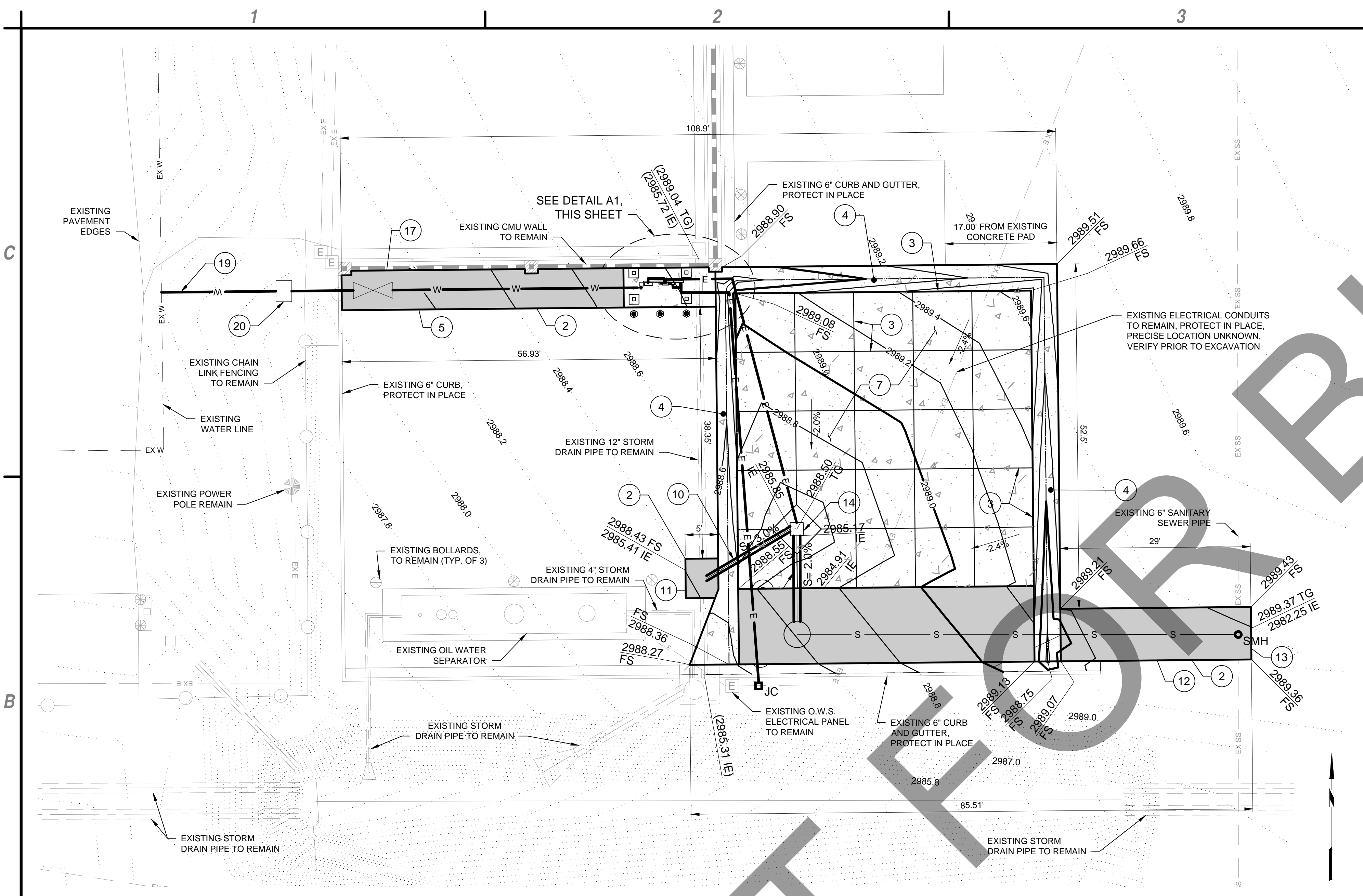
WASH RACK  
DEMOLITION AND  
EROSION CONTROL  
PLAN

CD101

**A1** WATER SERVICE PLAN  
SCALE: 1" = 10'



Oct 04, 2023 - 2:08pm  
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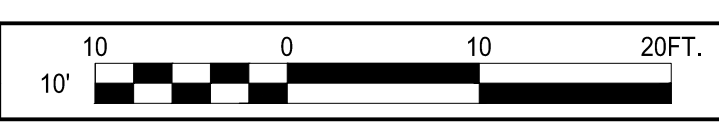


- ② RECONSTRUCT ASPHALT PAVEMENT PER DETAIL C2/CG501.
- ③ CONSTRUCTION JOINT (TYP.), PER DETAIL C1/CG501.
- ④ CONSTRUCT RIBBON GUTTER PER DETAIL B2/CG501.
- ⑤ CONSTRUCT NEW WATER LINE PER DETAIL A1/CG501
- ⑥ CONSTRUCT NEW BOLLARDS PER DETAIL B3/CG501, ITEM 129310.
- ⑦ CONSTRUCT PCC PAVEMENT SECTION PER DETAIL A4/CG501.
- ⑧ CONSTRUCT JENSEN VERTICAL FLOW CLARIFIER, MODEL VFC48, OR APPROVED EQUAL, ITEM D-751. SEE DETAIL C3/CG501.
- ⑨ 4 INCH DIA. PVC STORM DRAIN PIPE PER GREEN BOOK STANDARD SPECIFICATION 207-17.
- ⑩ 6 INCH DIA. RCP, CLASS IV, STORM DRAIN PIPE PER GREEN BOOK STANDARD SPECIFICATION 207-2. SEE DETAIL B4/CG501.
- ⑪ STORM DRAIN JUNCTION STRUCTURE, PER GREEN BOOK STANDARD DRAWING 332-2.
- ⑫ 4 INCH DIA. SANITARY SEWER PIPE PER GREEN BOOK STANDARD SPECIFICATION 207-17.
- ⑬ SEWER MAN HOLE PER GREEN BOOK STANDARD DRAWING 200-3.
- ⑭ CONSTRUCT 24" X 24" BROOK BOX CATCH BASIN PER DETAIL A3/CG502, ITEM D-751.
- ⑮ INSTALL HOSE BIB, ITEM 010260.
- ⑯ INSTALL 100' ELEC. REWIND HOSE REEL, ITEM 010260.
- ⑰ PROPOSED BACKFLOW PREVENTOR PER LIBERTY UTILITIES STANDARD DRAWING AV-314, ITEM 010260.
- ⑱ INSTALL PRESSURE WASHER, ITEM 010260.
- ⑲ PROPOSED 1" WATER SERVICE CONNECTION PER DETAIL B1/CG501
- ⑳ PROPOSED 1" WATER METER BY LIBERTY UTILITIES, ITEM 010260.
- ㉑ PROPOSED SHADE STRUCTURE (TYP.) PER DETAIL A1/CG502

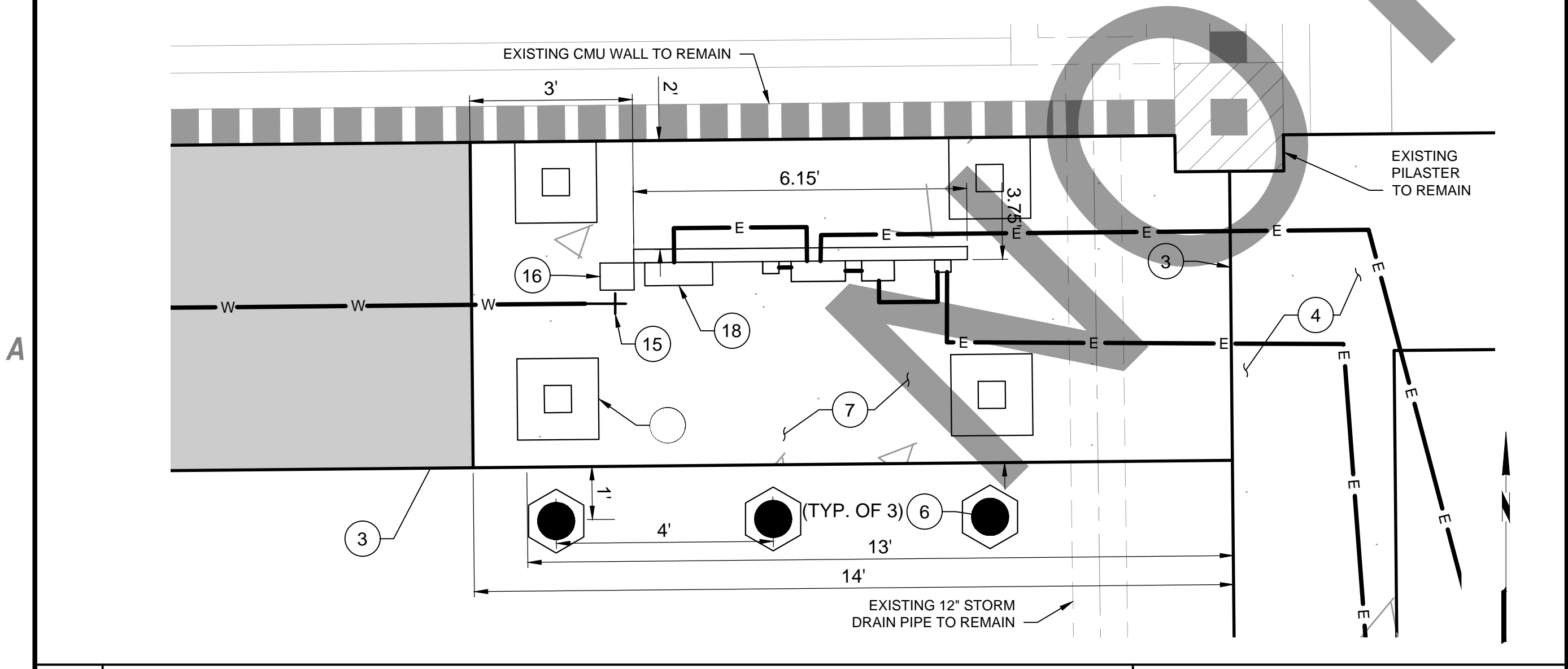
**C4 KEY NOTES**  
NOT TO SCALE

1. ALL UTILITIES SHALL BE PROTECTED IN PLACE.
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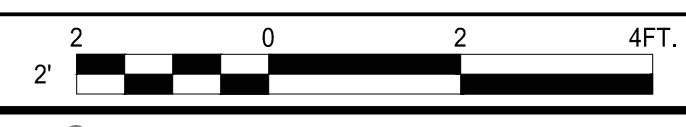
**B1 WATER SERVICE PLAN**  
SCALE: 1" = 10'



**B4 NOTES**  
NOT TO SCALE



**A1 ELECTRICAL BACKBOARD AND WATER SERVICE DETAIL**  
SCALE: 1" = 2'



**A3 NOT USED**  
NOT TO SCALE



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**FINAL**



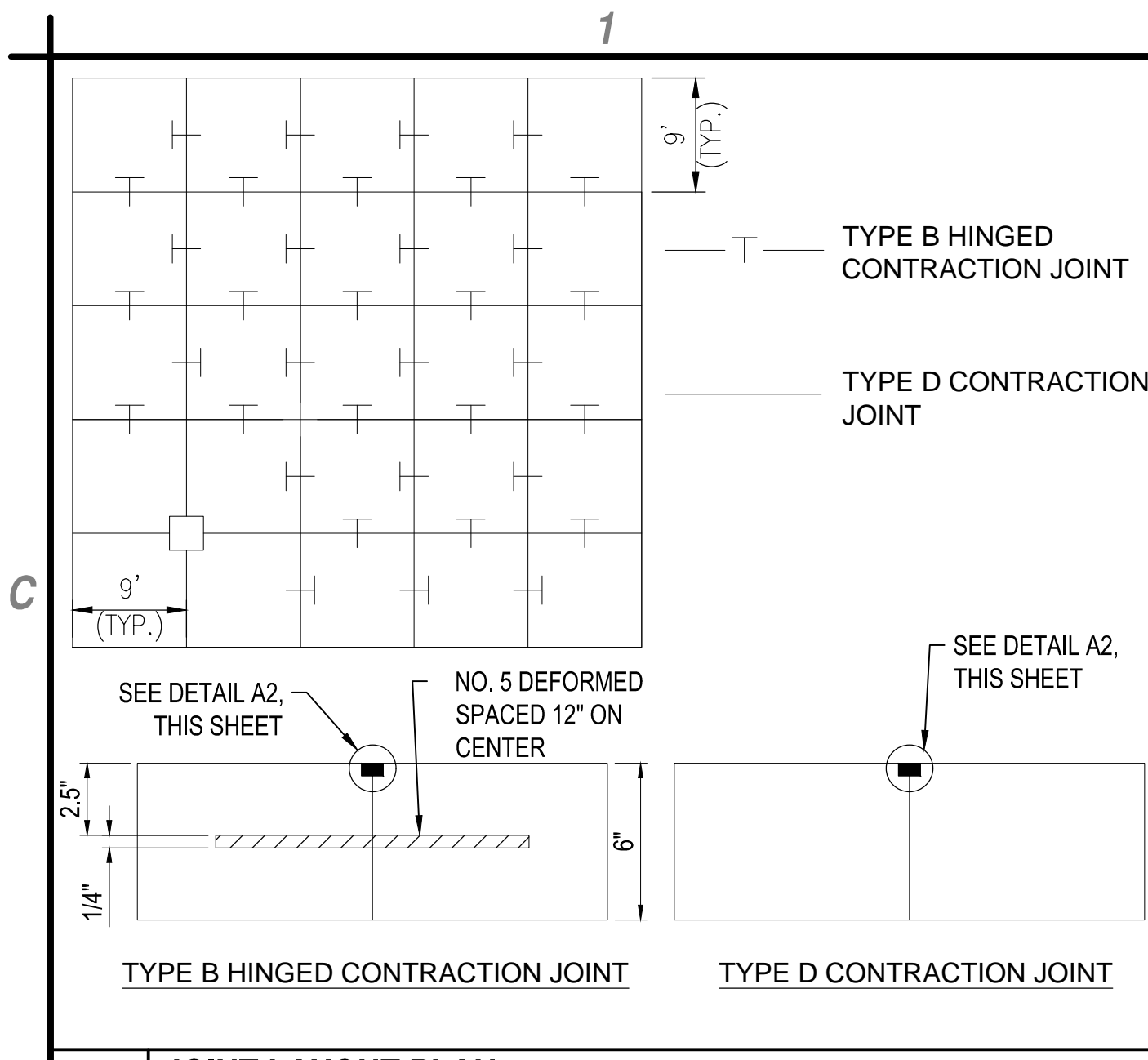
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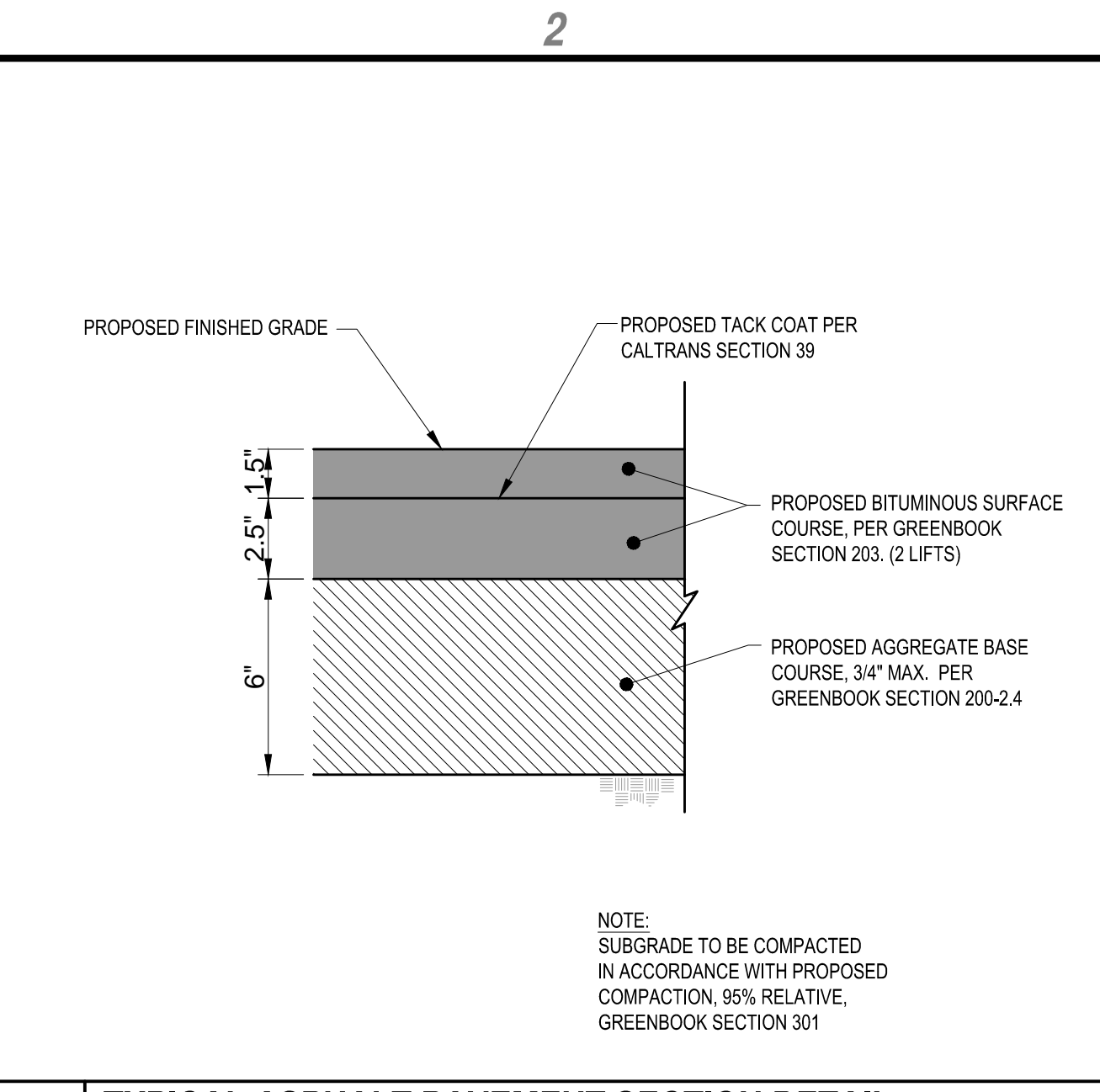
**WASH RACK GRADING PLAN**

**CG101**

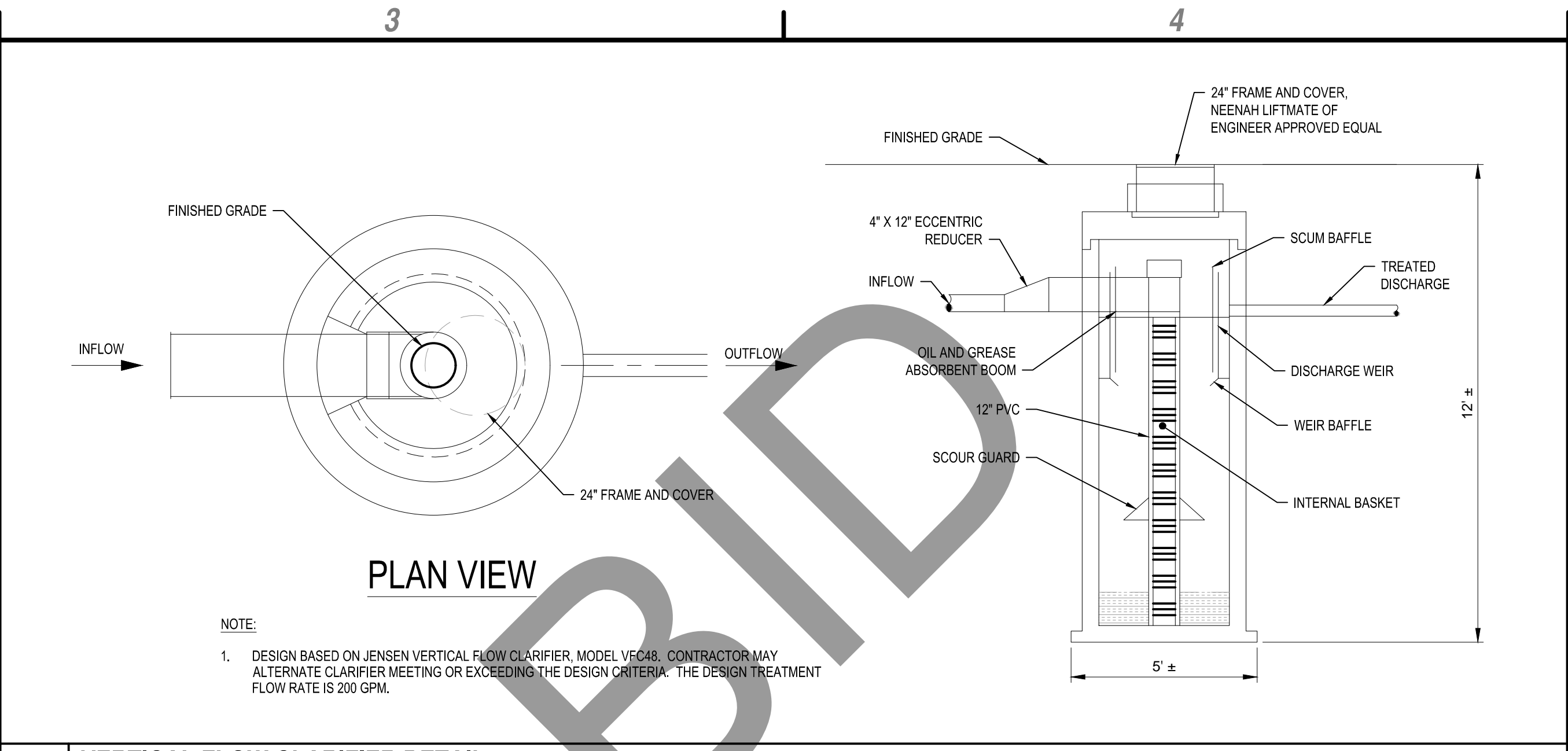
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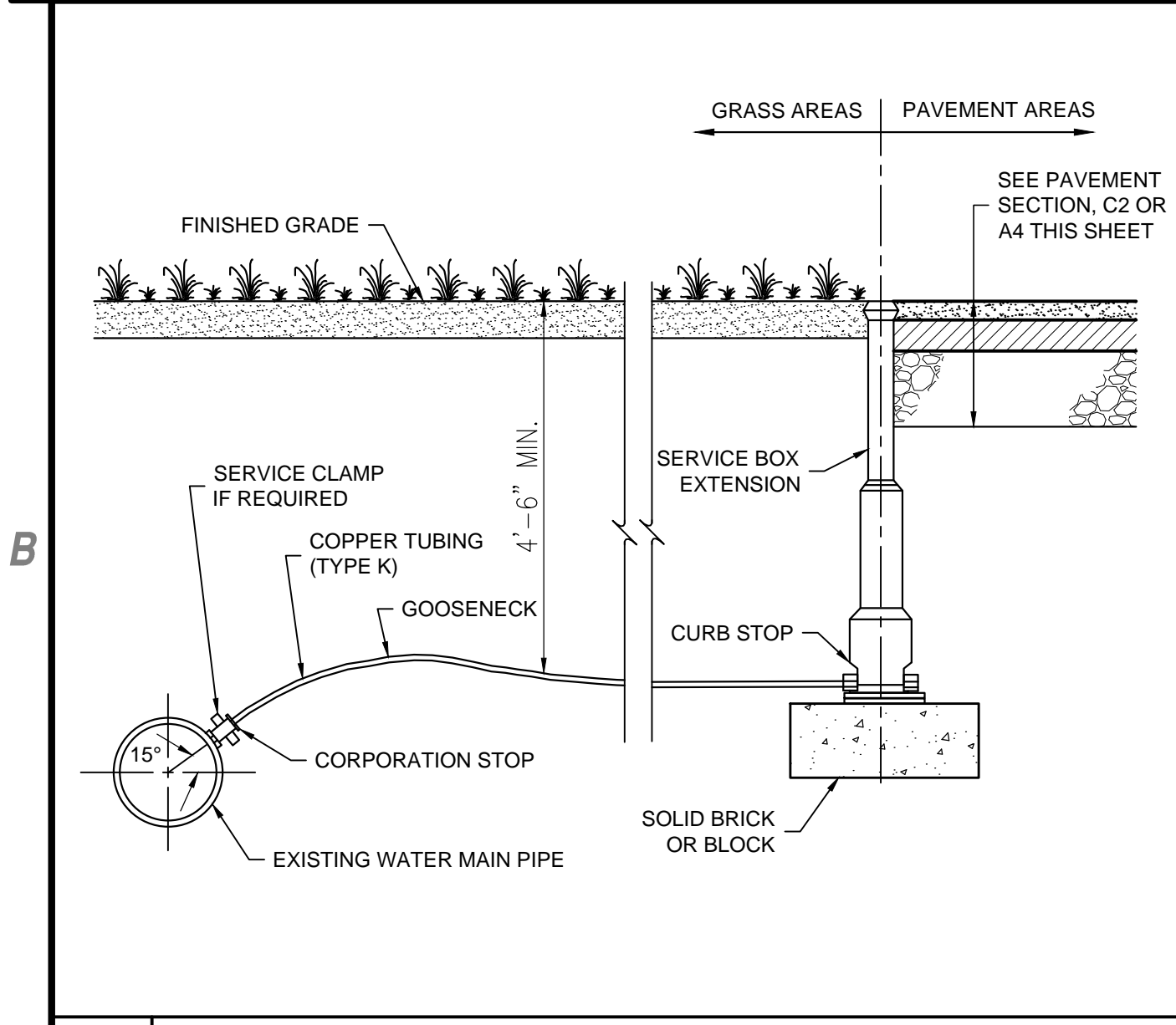
**C1** JOINT LAYOUT PLAN  
NOT TO SCALE



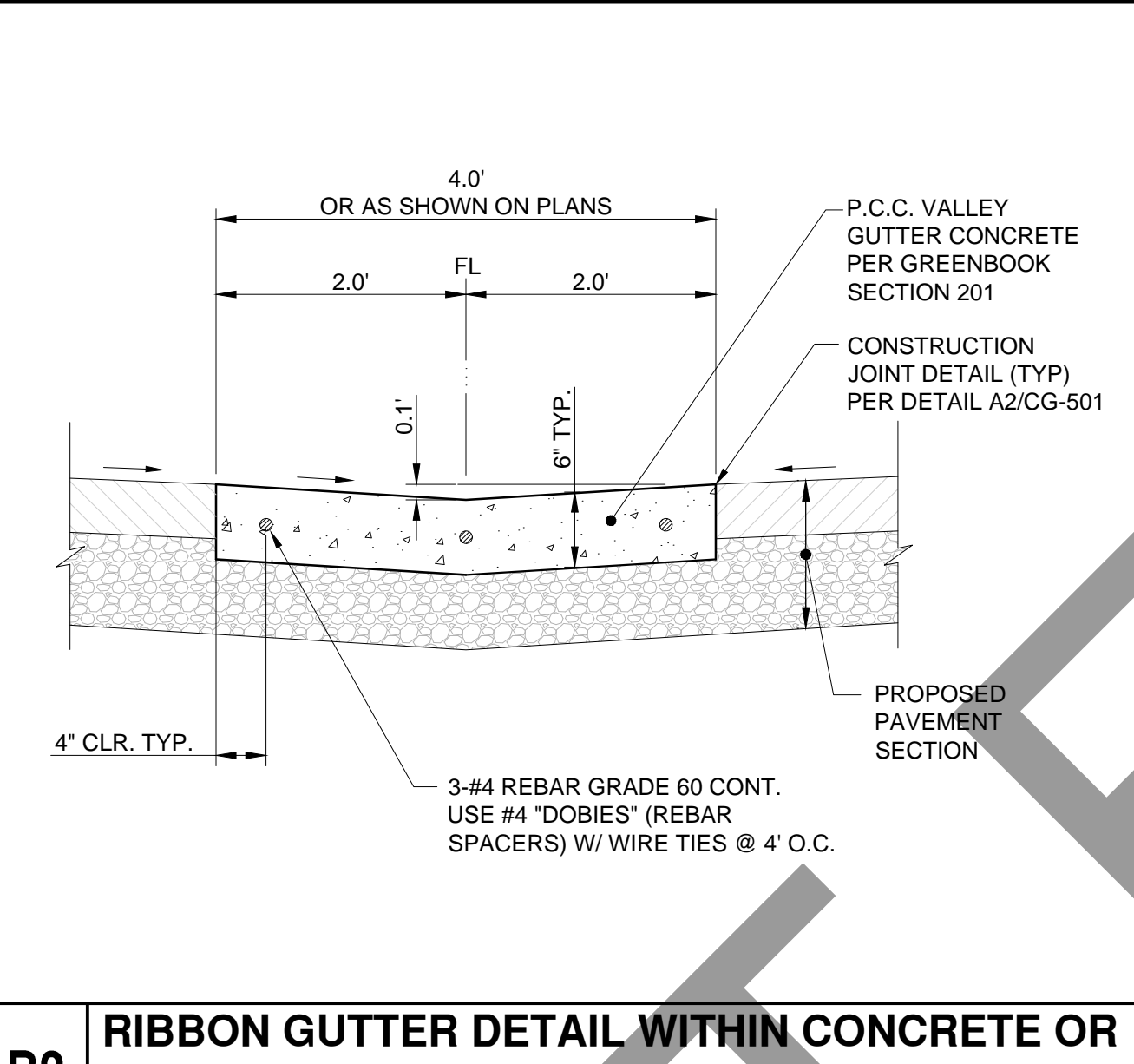
**C2** TYPICAL ASPHALT PAVEMENT SECTION DETAIL  
NOT TO SCALE



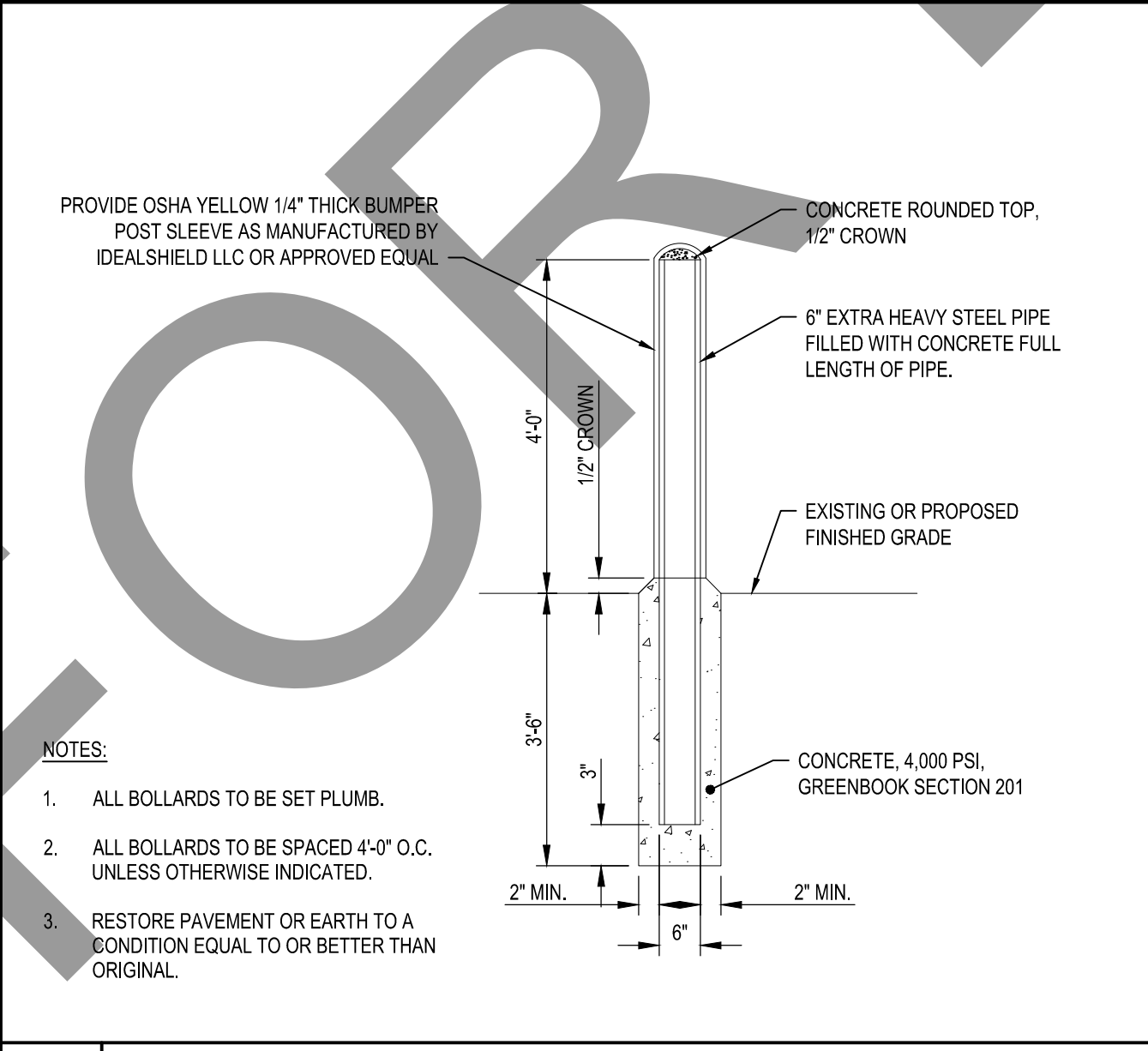
**C3** VERTICAL FLOW CLARIFIER DETAIL  
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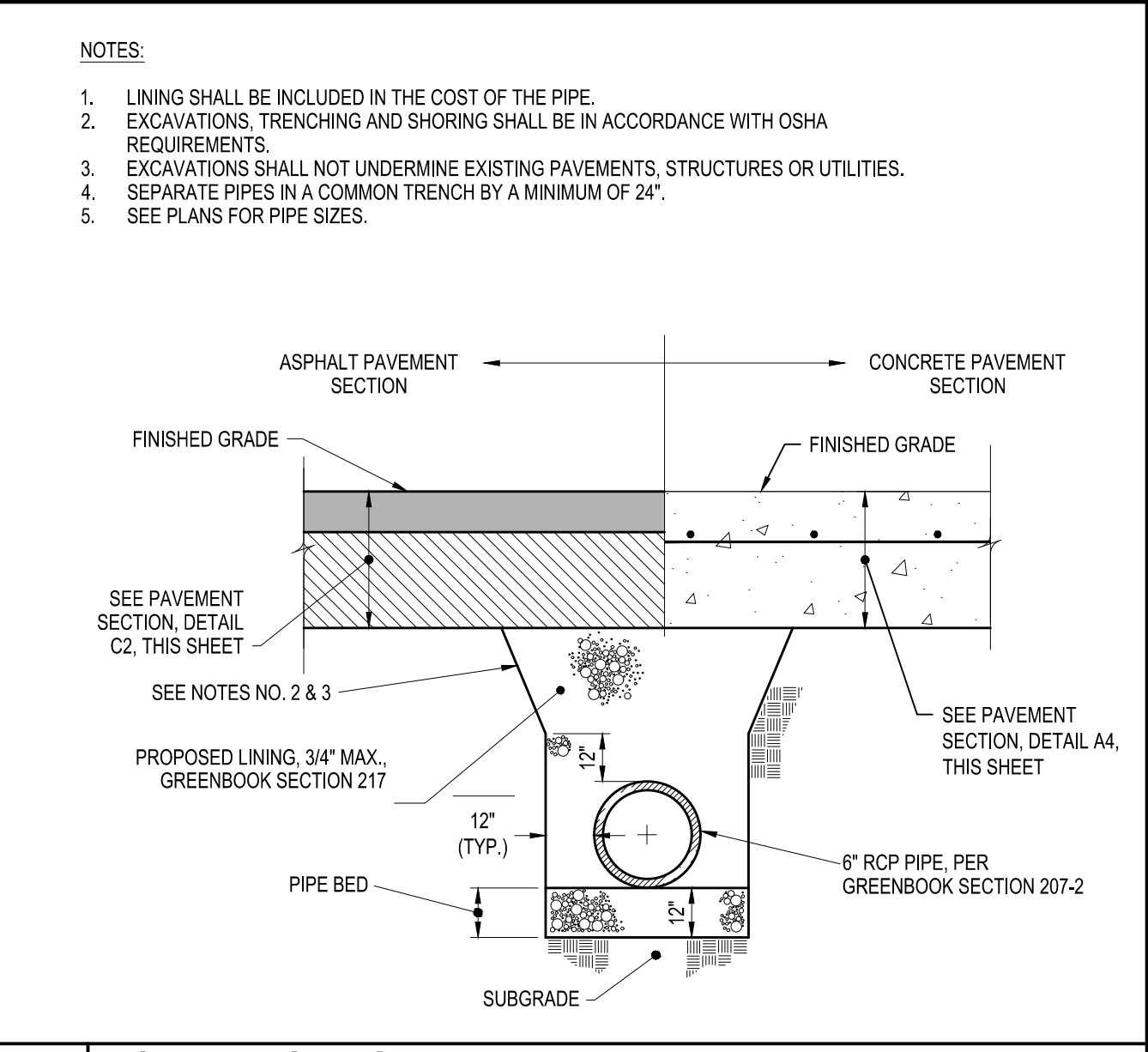
**B1** TYPICAL WATER SERVICE CONNECTION DETAIL  
NOT TO SCALE



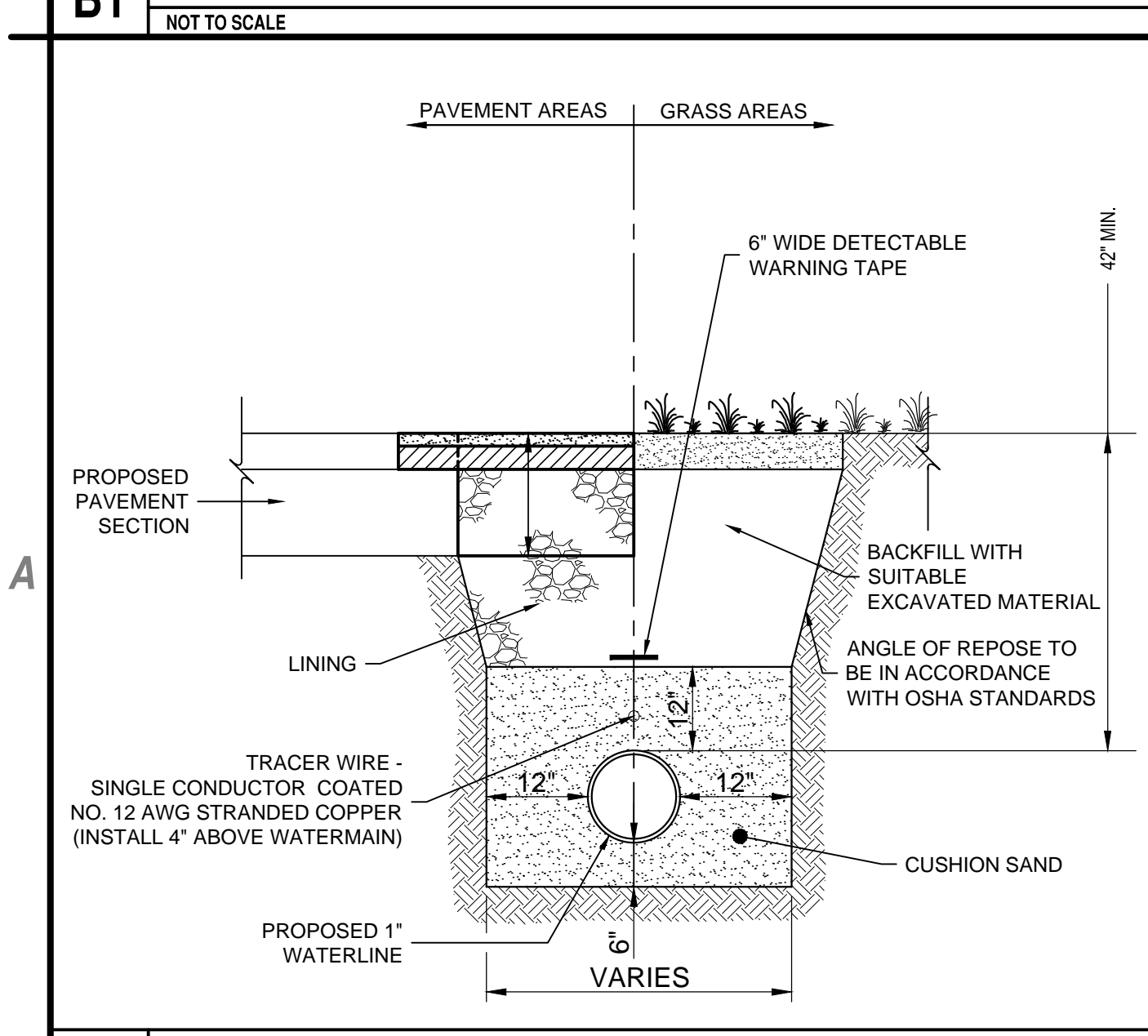
**B2** RIBBON GUTTER DETAIL WITHIN CONCRETE OR ASPHALT PAVEMENTS  
NOT TO SCALE



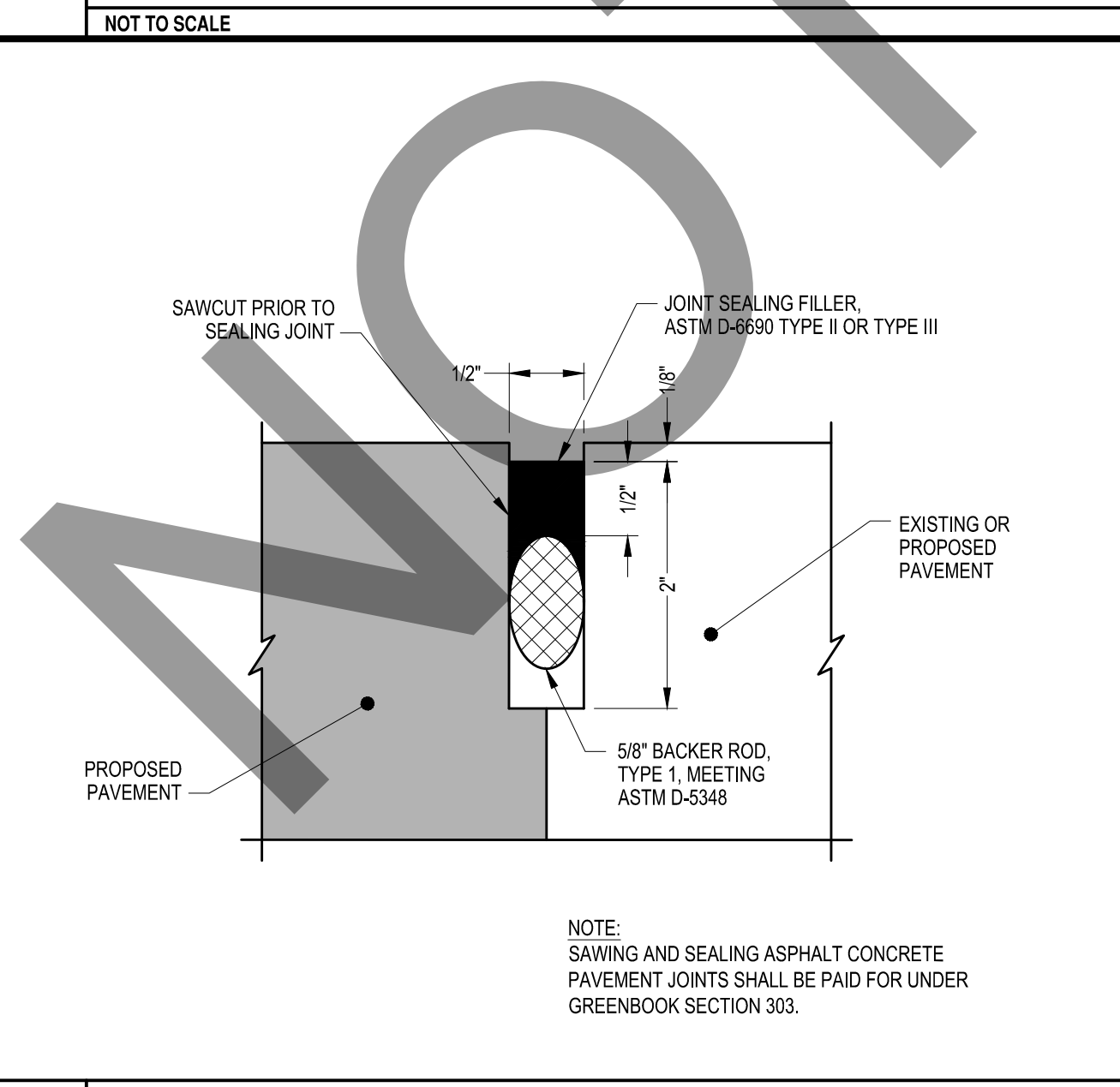
**B3** TYPICAL BOLLARD DETAIL  
NOT TO SCALE



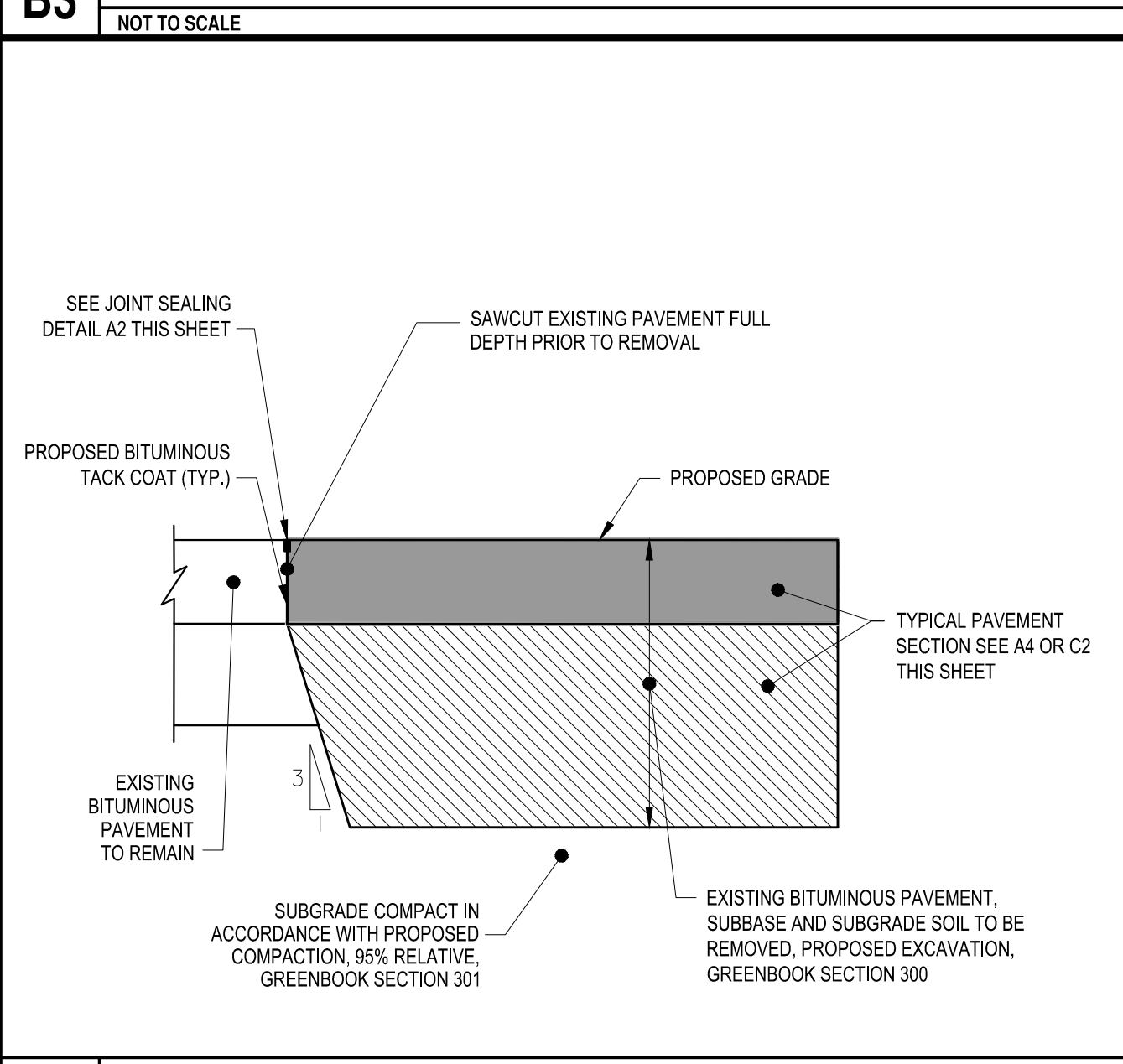
**B4** RCP TRENCHING DETAIL  
NOT TO SCALE



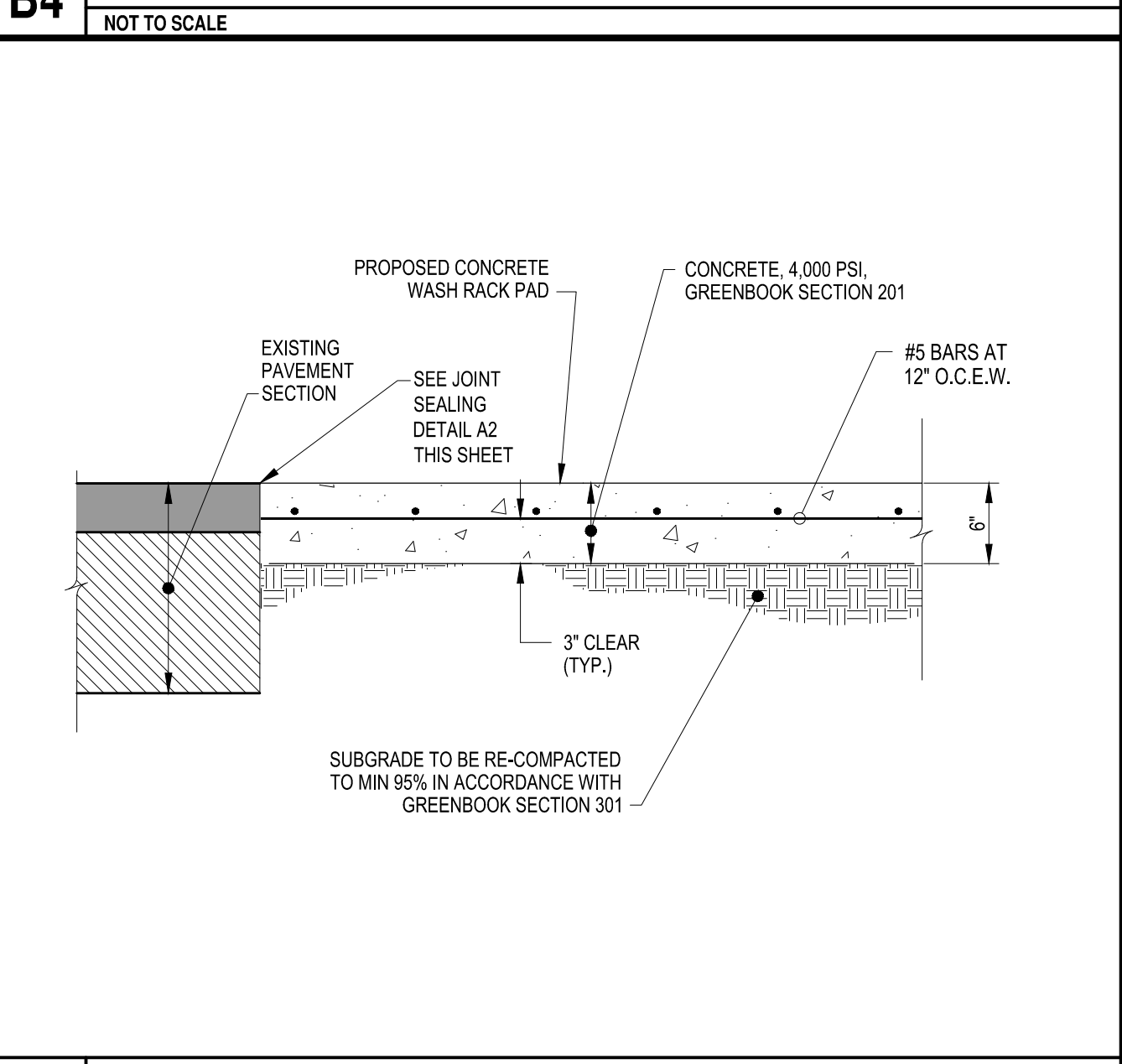
**A1** WATERLINE DETAIL  
NOT TO SCALE



**A2** CONSTRUCTION JOINT DETAIL  
NOT TO SCALE



**A3** KEYING DETAIL  
NOT TO SCALE



**A4** TYPICAL CONCRETE PAVEMENT SECTION DETAIL  
NOT TO SCALE

**C&S COMPANIES**  
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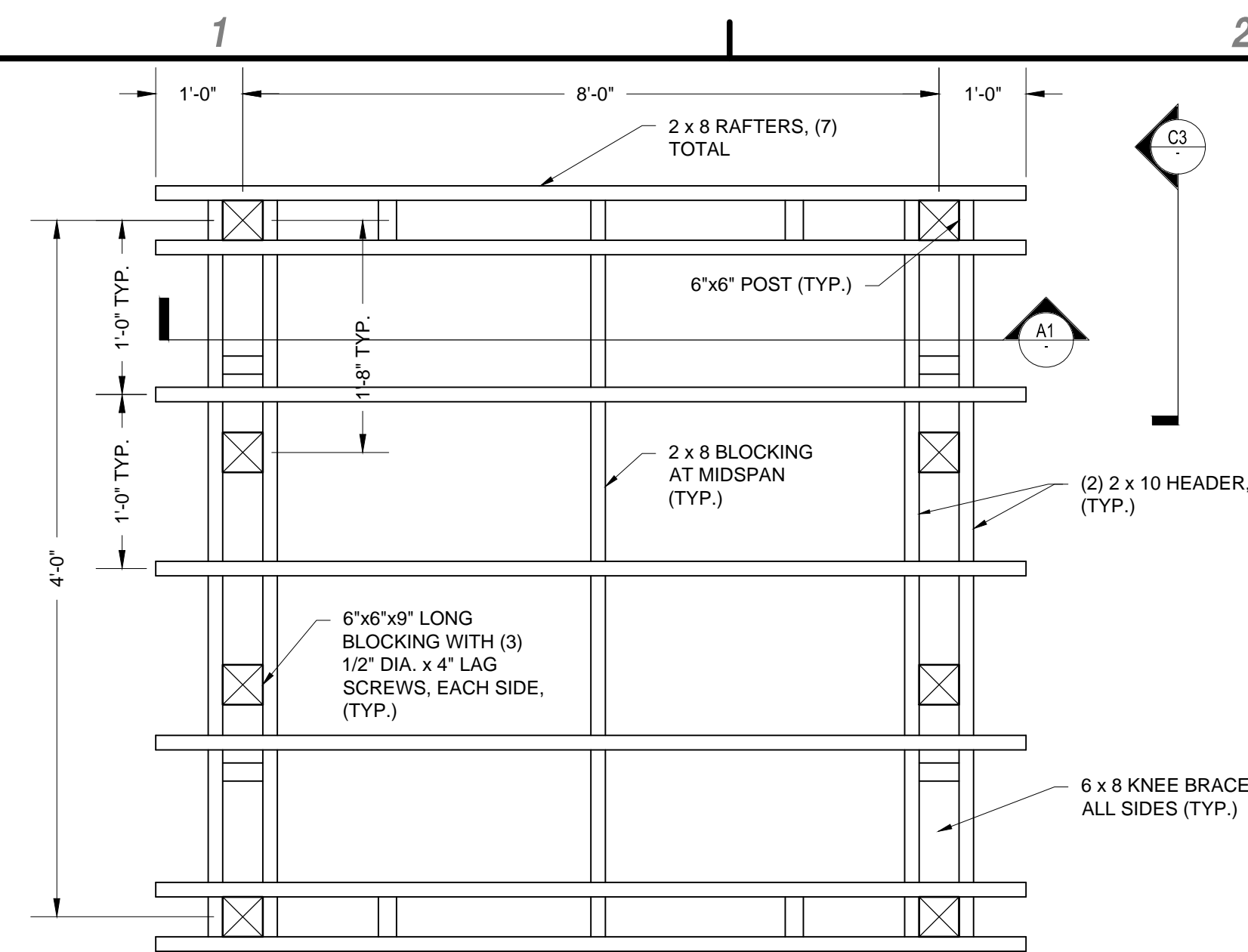
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**SAN BERNARDINO COUNTY**

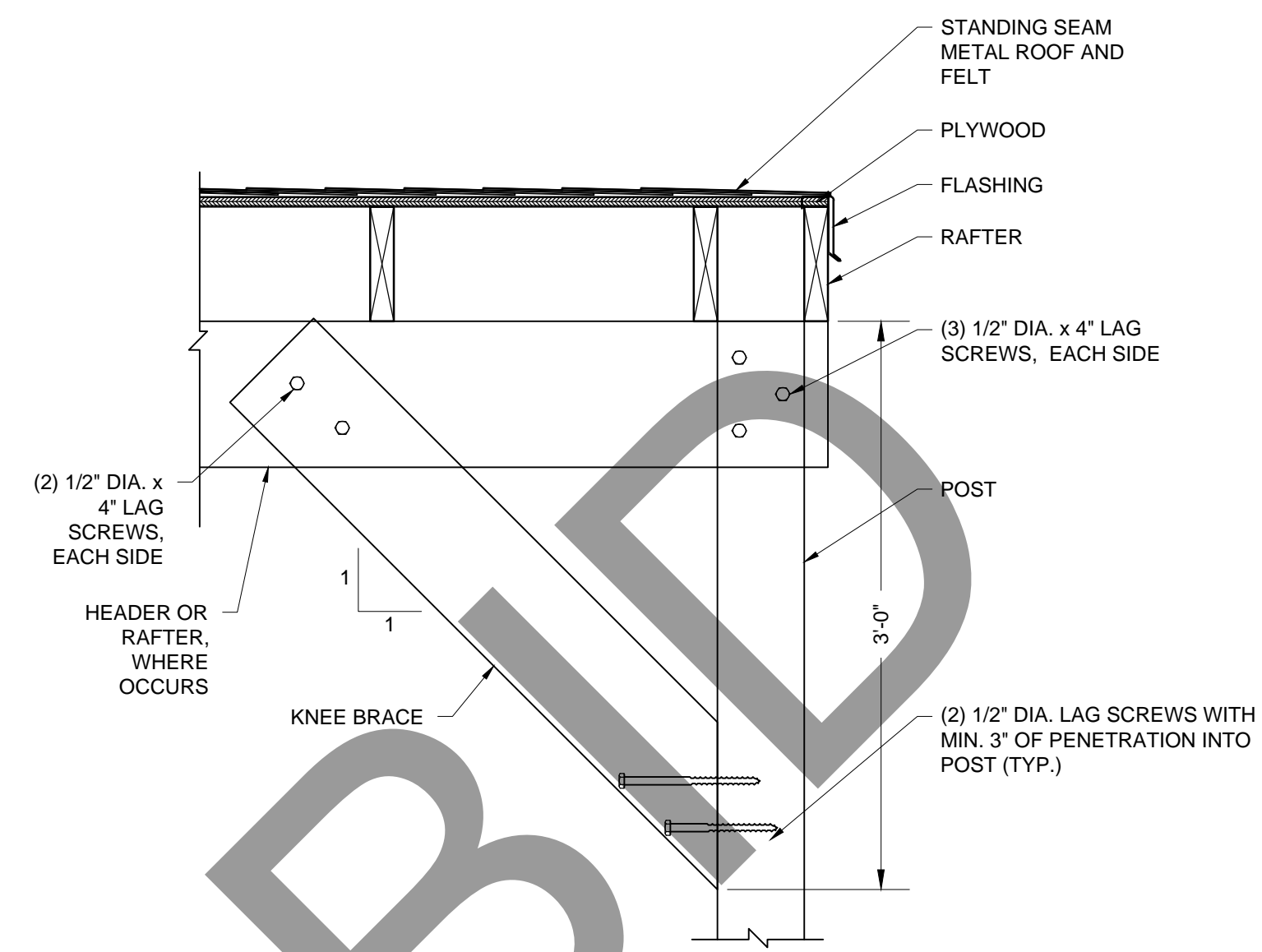
**APV WASH RACK**  
**PROJECT #10.10.0696**  
**21600 CORWIN ROAD**  
**APPLE VALLEY, CA, 92307**  
**SAN BERNARDINO COUNTY, CALIFORNIA**

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K15.001.006		
DATE: SEPTEMBER 2023		
DRAWN BY: STB		
DESIGNED BY: BCS		
CHECKED BY: ALW		
<b>PAVEMENT AND SITE DETAILS</b>		
<b>CG501</b>		

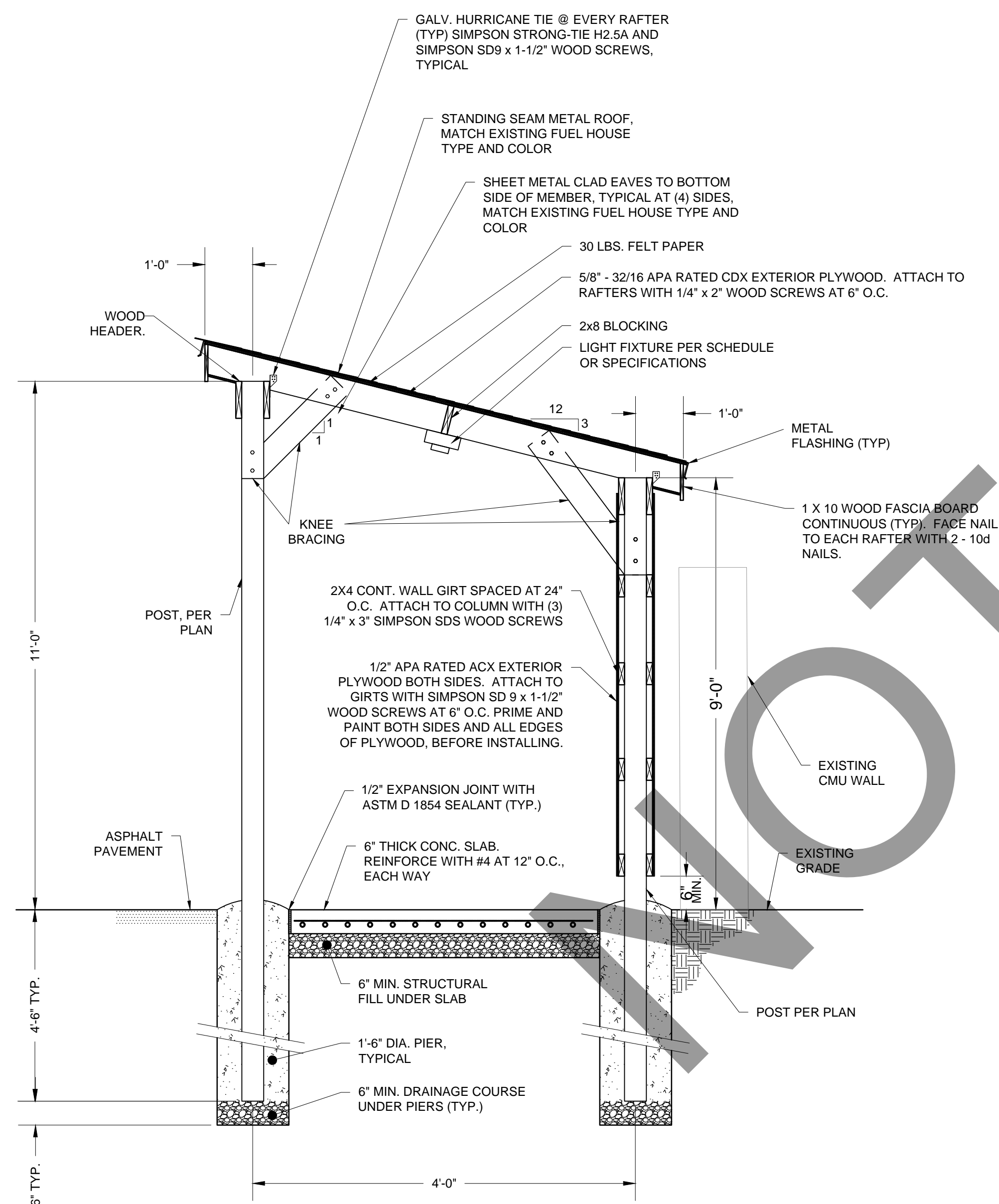
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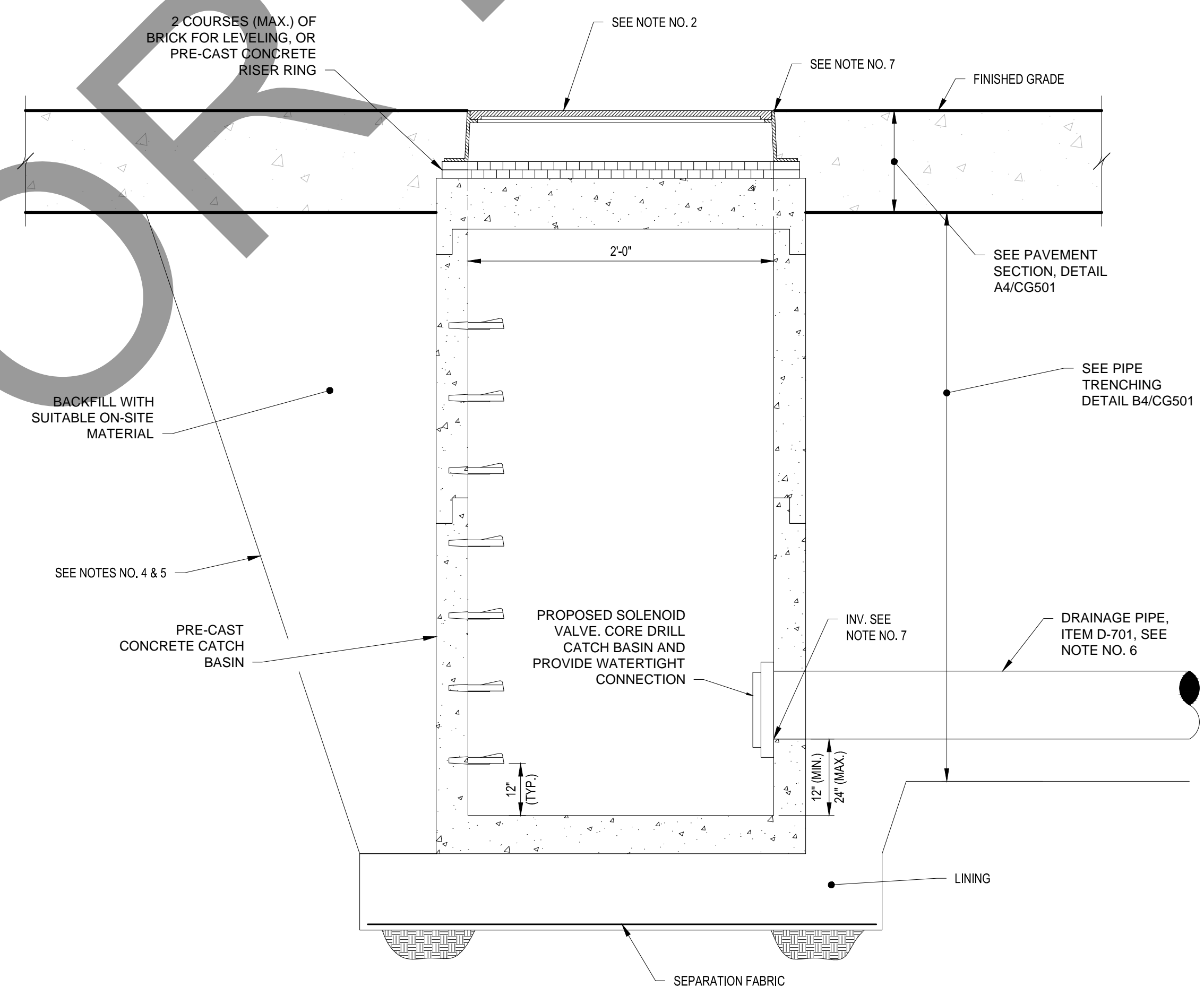
**C1 SHADE STRUCTURE FRAMING**  
NOT TO SCALE



**C3 SHADE STRUCTURE SECTION**  
NOT TO SCALE



**A1 SHADE STRUCTURE**  
NOT TO SCALE



**NOTES:**

- PRE-CAST CATCH BASIN SHALL BE CONSTRUCTED TO SUPPORT AASHTO HS-25 LOADING, ITEM D-751.
- FOR CATCH BASINS, USE 8" HIGH EJ 1207 FRAME AND GRATE, NEENAH R-2556 FRAME WITH TYPE 'G' GRATE, OR EQUAL.
- FRAME SHALL BE ANCHORED TO CONCRETE STRUCTURE IN 4 LOCATIONS. DRILL AND GROUT (4) 1/2" DIA. ANCHOR BOLTS WITH 6" EMBEDMENT.
- EXCAVATIONS, TRENCHING AND SHORING SHALL BE IN ACCORDANCE WITH OSHA REQUIREMENTS.
- EXCAVATIONS SHALL NOT UNDERMINE EXISTING PAVEMENTS, STRUCTURES OR UTILITIES.
- SEE SHEET CG101 FOR NUMBER OF PIPES, SIZES AND ORIENTATION.
- FOR RIMS AND INVERTS SEE SHEET CG101.
- LINING AND SEPARATION FABRIC SHALL BE INCLUDED IN THE COST OF THE MANHOLE/CATCH BASIN.

**A3 CATCH BASIN DETAIL**  
NOT TO SCALE



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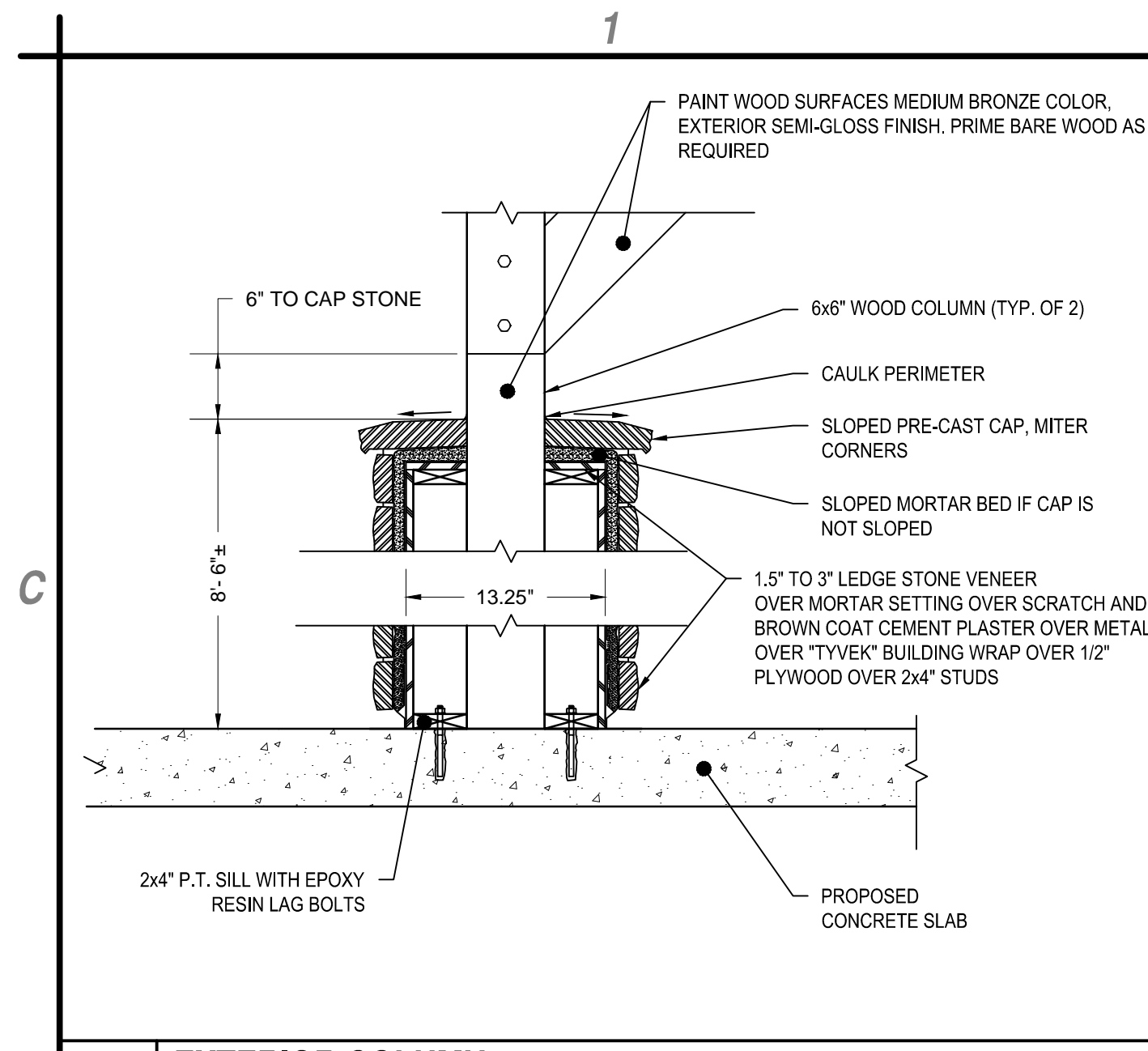
**APV WASH RACK**  
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PROJECT NO: K15.001.006		
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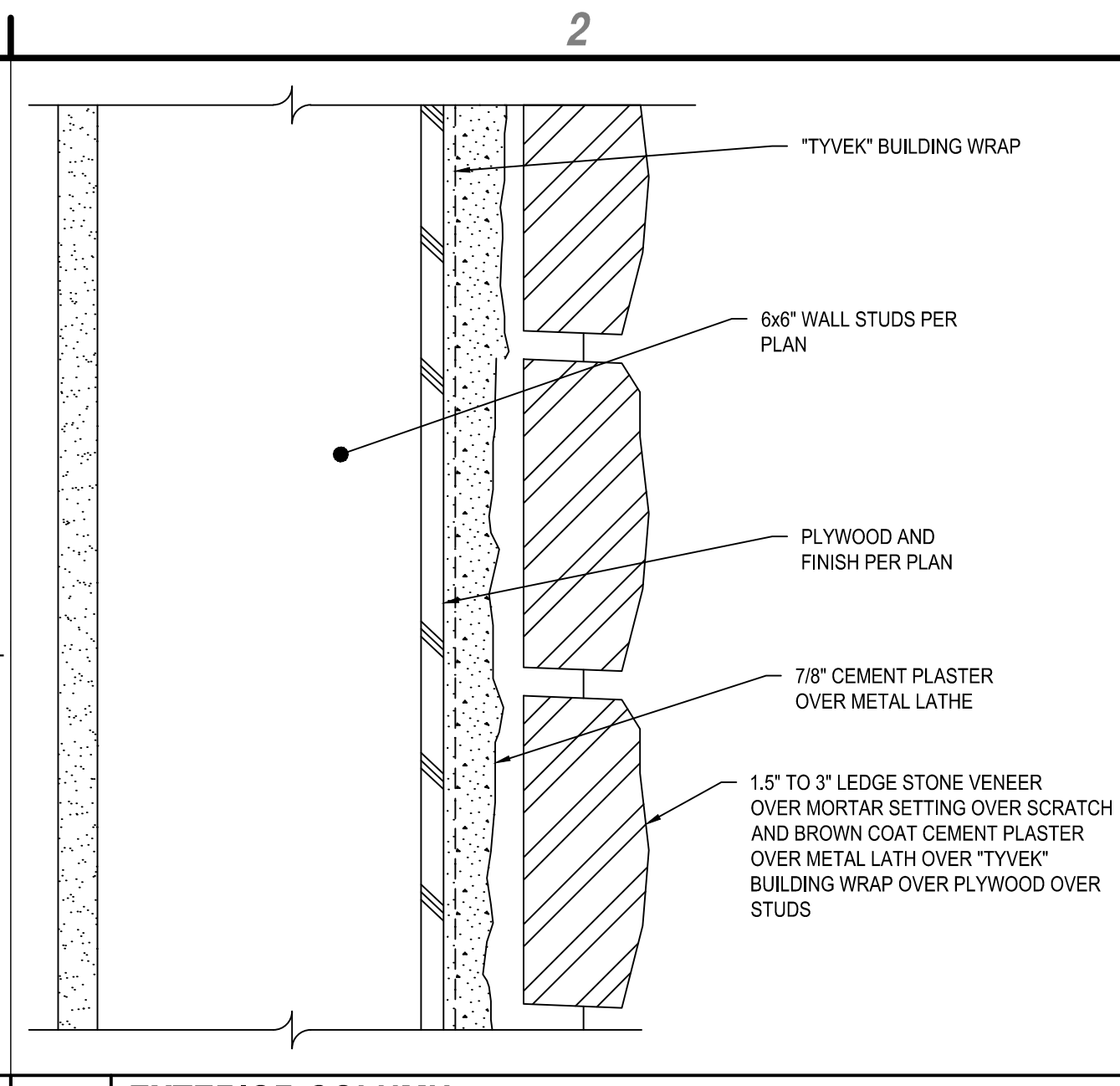
**PAVEMENT AND SITE DETAILS**

**CG502**

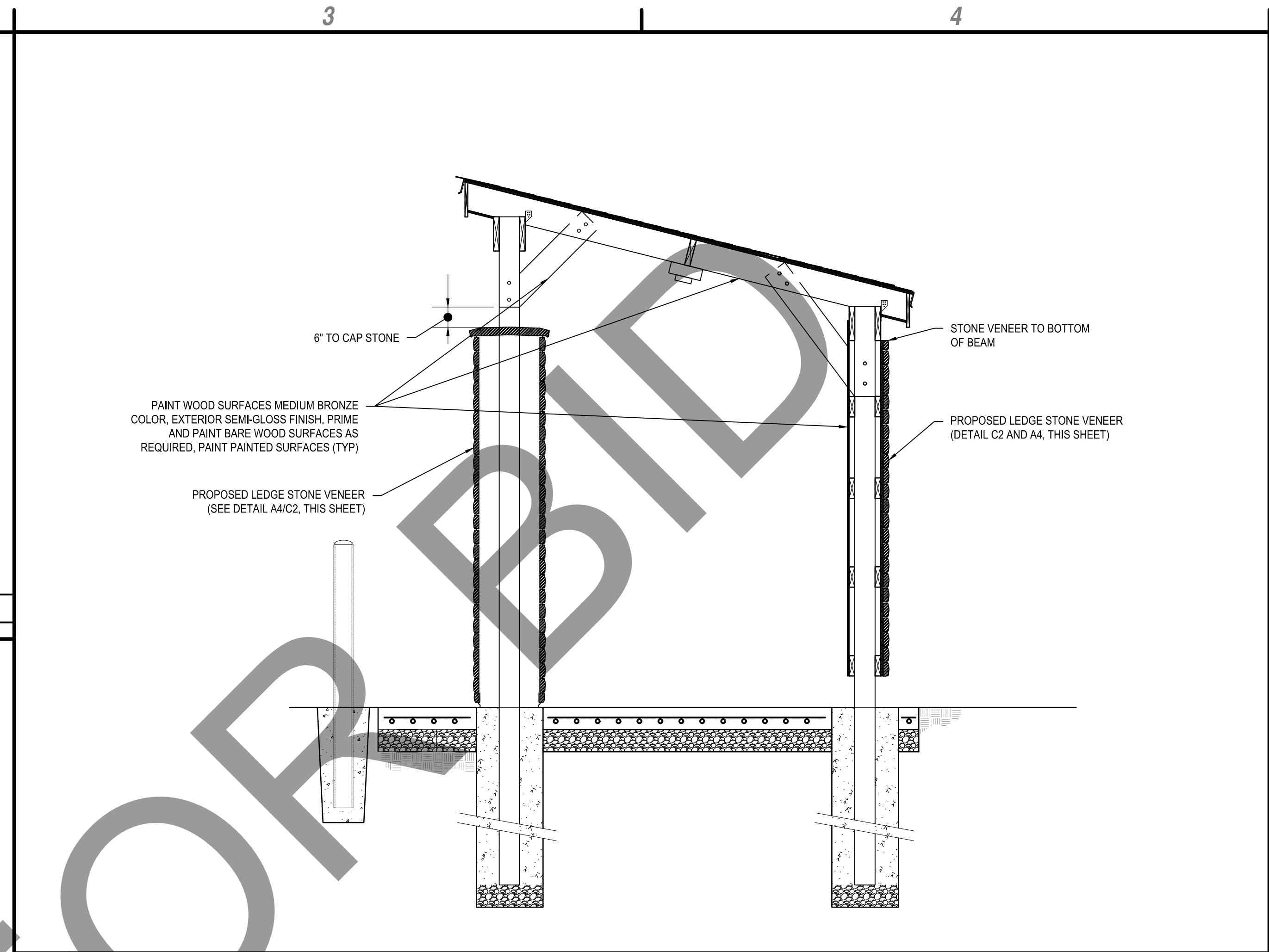
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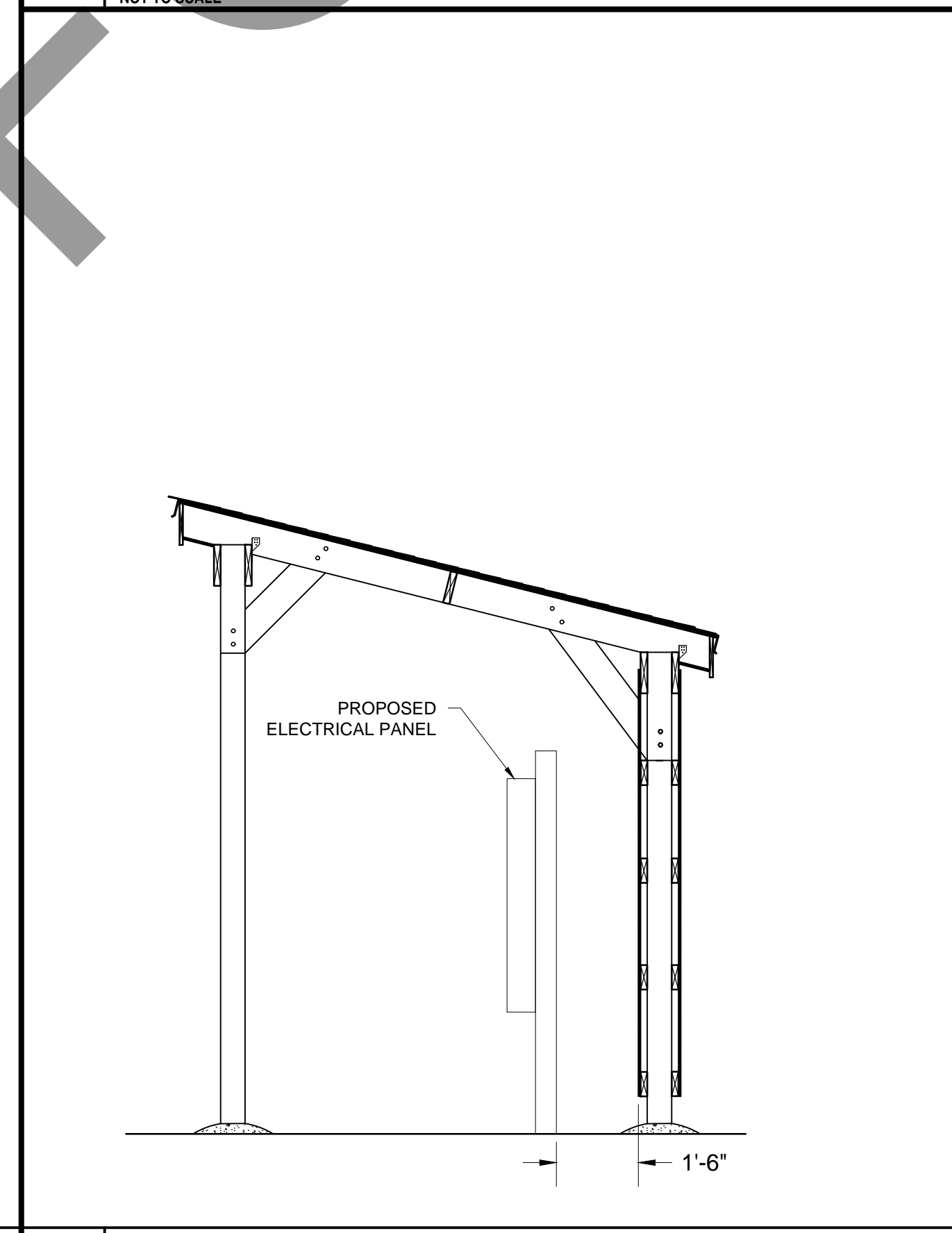
**C1 EXTERIOR COLUMN**  
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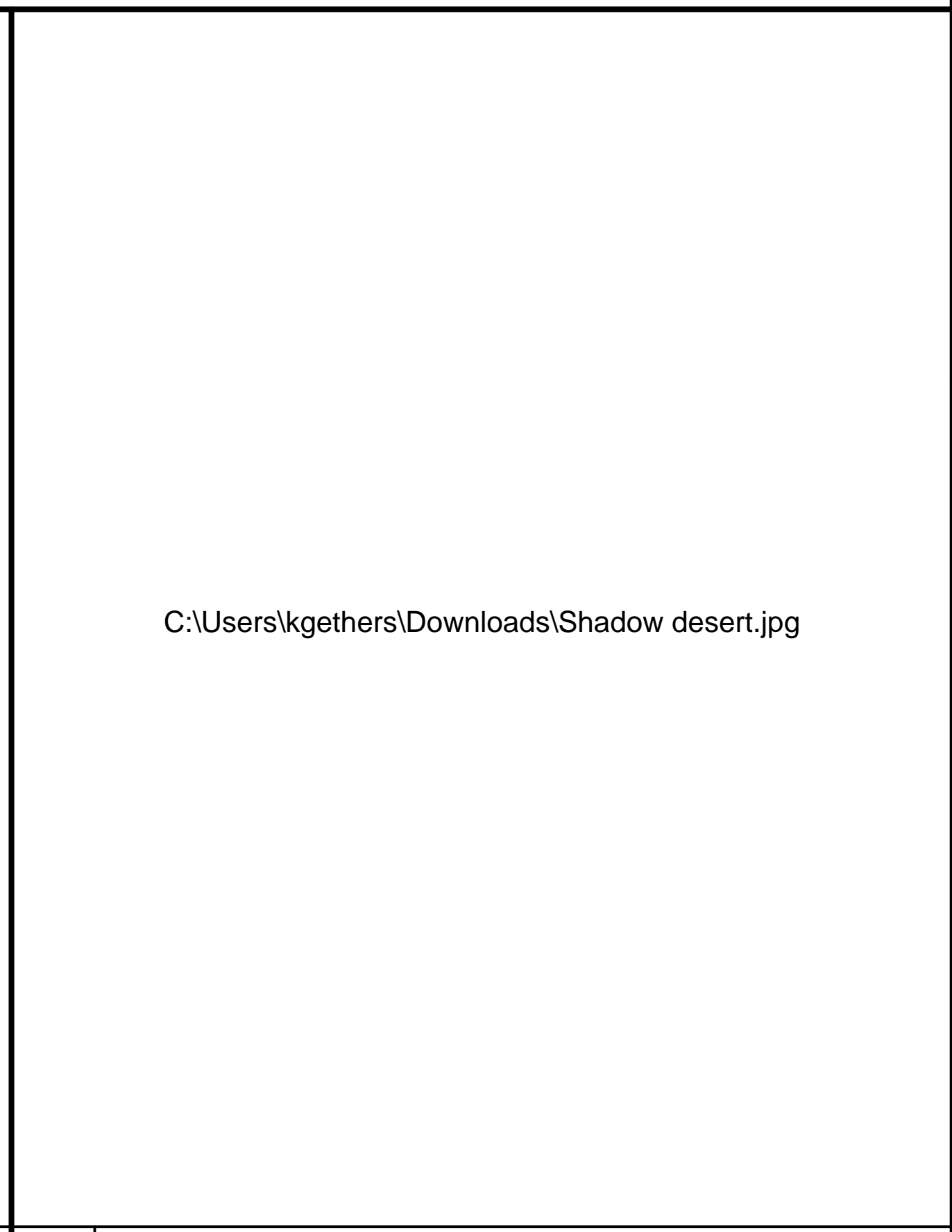
**C2 EXTERIOR COLUMN**  
NOT TO SCALE



**B3 PANEL LOCATION**  
NOT TO SCALE



**A3 PANEL LOCATION**  
NOT TO SCALE



**A4 STONE DETAIL**  
NOT TO SCALE

**GENERAL NOTES:**

- CODES AND REFERENCE STANDARDS:  
CA BUILDING CODE - 2019 EDITION
- 2019 CBC DESIGN DATA:
  - A) ROOF DEAD LOAD: 10PSF
  - B) SNOW LOAD - GROUND SNOW LOAD: 40 PSF
    - FLAT- ROOF SNOW LOAD, PF = 38.4 PSF
    - SNOW EXPOSURE FACTOR, CE = 0.8
    - SNOW LOAD IMPORTANCE FACTOR, IS = 10
    - THERMAL FACTOR, CT = 1.2
  - C) WIND LOAD: BASIC WIND SPEED (3-SECOND GUST) 90 MPH
    - IMPORTANCE FACTOR, IW = 1.0
    - EXPOSURE CATEGORY, [C]
    - INTERNAL PRESSURE COEFFICIENT
    - DESIGN WIND PRESSURE (MWFRS):
      - WALLS (HORIZONTAL) 22.4 PSF
      - ROOFS (DOWNWARD) 18.5 PSF
      - UPLIFT 32.4 PSF
    - D) EARTHQUAKE LOAD:
      - SEISMIC IMPORTANCE FACTOR, I = 1.0
      - SPECTRAL RESPONSE ACCELERATIONS, Ss = 0.16
      - SPECTRAL RESPONSE ACCELERATIONS, S1 = 0.05
      - SITE CLASS, D
      - SPECTRAL RESPONSE COEFFICIENT, SDS = 0.17
      - SPECTRAL RESPONSE COEFFICIENT, SD1 = 0.08
      - DESIGN CATEGORY, B
      - SEISMIC RESPONSE COEFFICIENT, Cs = 0.05
      - RESPONSE MODIFICATION FACTOR, R = 2.5
      - ANALYSIS PROCEDURE [EQUIVALENT LATERAL FORCES]
      - DESIGN BASE SHEAR, 140 LBS

**EXCAVATION AND FILL:**

- THE BOTTOM OF ALL CONCRETE FOUNDATIONS SHALL REST ON UNDISTURBED SOIL AND/OR APPROVED COMPACTED MATERIAL, AS DEFINED IN THE CONTRACT SPECIFICATIONS. THE BOTTOM OF ALL SLABS SHALL REST ON (6) INCHES OF STRUCTURAL FILL AS NOTED IN THE EARTHMOVING SPECIFICATION 312000.) ALL FILL MATERIALS BELOW SLABS SHALL BE OF THE THICKNESS SHOWN AND SHALL BE COMPACTED TO MINIMUM 95% MODIFIED PROCTOR DENSITY. SEE SPECIFICATIONS FOR COMPACTION AND FIELD TEST/REQUIREMENTS.
- ALL EXCAVATION SHALL BE DEWATERED TO MAINTAIN GROUNDWATER AT LEAST 24" BELOW FOOTING BEFORE PLACING OF CONCRETE.
- THE CONTRACTOR SHALL PROOF ROLL THE EXISTING SUBGRADE OF THE ENTIRE SITE WITH (8 TON) VIBRATORY ROLLER AFTER INITIAL CUTS AND FILLS HAVE BEEN PERFORMED.

**CONCRETE:**

- DESIGN STRENGTH: STRUCTURAL CONCRETE AND SLAB ON GRADE 4000 PSI @ 28 DAYS, NORMAL WEIGHT CONCRETE WITH TYPE I OR II CEMENT.
- STANDARDS: DESIGN ACI 318 - LATEST EDITION
- DETAILS ACI 315 - LATEST EDITION
- MATERIALS ACI 301 - LATEST EDITION
- REINFORCING: MESH ASTM A-185 (FLAT SHEETS)
- AIR CONTENT: ALL SLAB ON GRADE AND EXTERIOR CONCRETE SHALL BE AIR ENTRAINED IN ACCORDANCE WITH SPECIFICATIONS.
- CONCRETE COVER OVER BARS:  
CONCRETE DEPOSITED ON GROUND 3"  
FORMED CONCRETE EXPOSED TO GROUND, WEATHER OR WATER 2"  
WALLS & SLABS NOT DIRECTLY EXPOSED TO GROUND, WATER OR WEATHER 1-1/2"
- SPLICES IN REINFORCEMENT: UNLESS OTHERWISE NOTED, ALL SPLICES AND ANCHORAGES SHALL BE MINIMUM 40 BAR DIAMETERS, BUT NOT LESS THAN 18 INCHES. STAGGER SPLICES WHEREVER POSSIBLE AND LOCATE SO AS NOT TO IMPAIR STRENGTH OF MEMBERS.
- PROVIDE ON LAYER 6x6 - W2.9x12.9 WELDED WIRE FABRIC IN ALL FLOOR SLABS UNLESS NOTED OTHERWISE.
- PROVIDE EXTRA BARS IN SLABS AT RE-ENTRANT (CORNERS 2 - #4 @ 6"OC BY 4'-0" LONG).
- CLEAN AND APPLY BONDING AGENT TO ALL EXISTING CONCRETE SURFACES TO RECEIVE NEW CONCRETE.

**WOOD:**

- LUMBER TO BE SOUTHERN PINE #2 WITH BENDING STRESS = 1200 PSI MIN. FOR 2x8 AND 1050 PSI MIN. FOR 2x10.
- PAINT OR STAIN ALL EXPOSED WOOD WITH APPROPRIATE PRODUCT FOR WEATHER CONDITIONS.
- PLYWOOD AT EXPOSED ELECTRICAL BACKBOARD SHALL BE EXTERIOR RATED.

**CONNECTIONS:**

- ALL METAL FASTENERS SHALL BE GALVANIZED.

**A1 SHELTER GENERAL NOTES**  
NOT TO SCALE



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**APV WASH RACK**  
**PROJECT #10.10.0696**  
**21600 CORWIN ROAD**  
**APPLE VALLEY, CA, 92307**  
**SAN BERNARDINO COUNTY, CALIFORNIA**

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PROJECT NO:		K15.001.006
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DRAWN BY:		STB
DESIGNED BY:		BCS
CHECKED BY:		ALW

**SITE DETAILS**

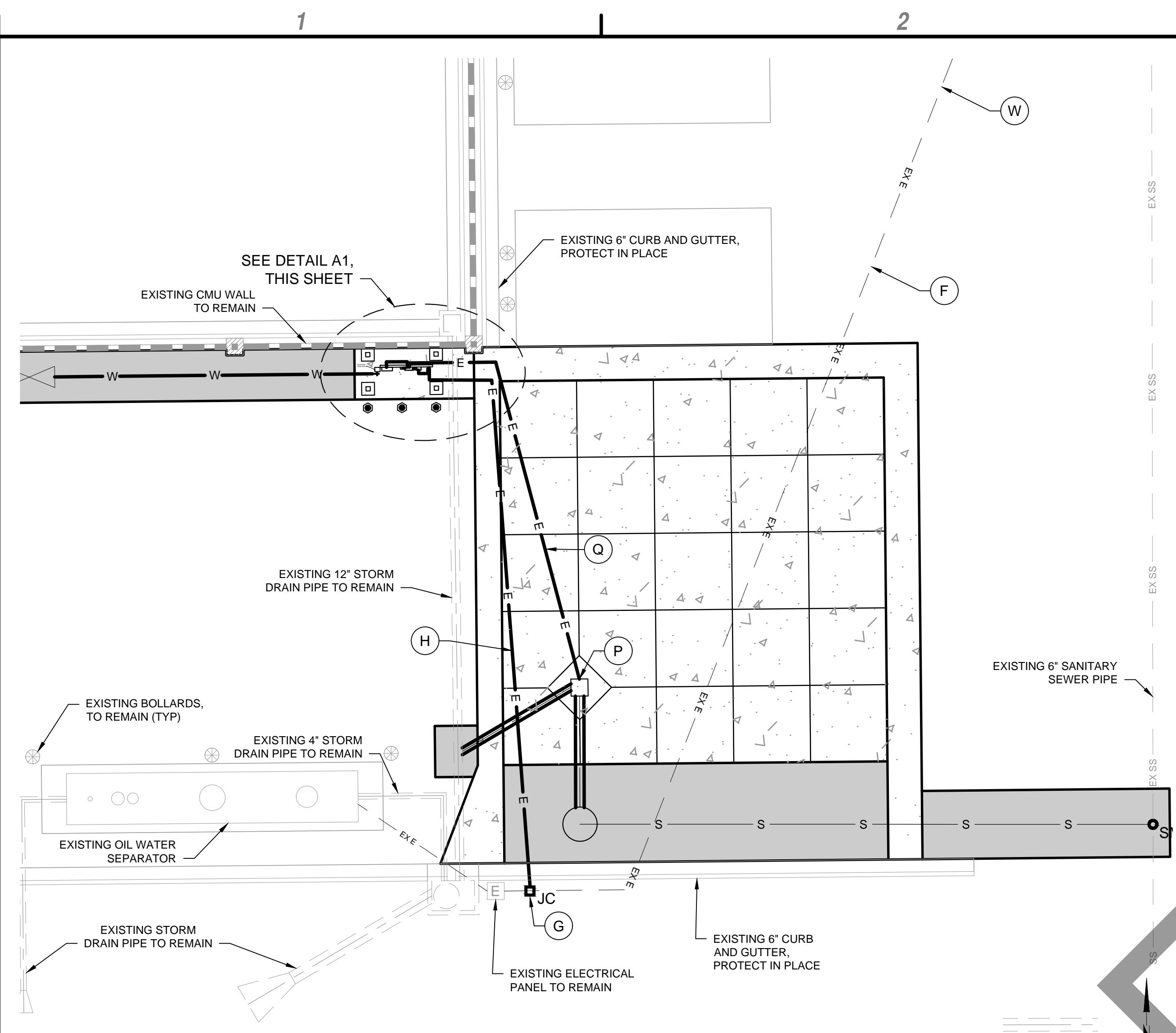
**CG503**



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DESIGNED BY: BCS		
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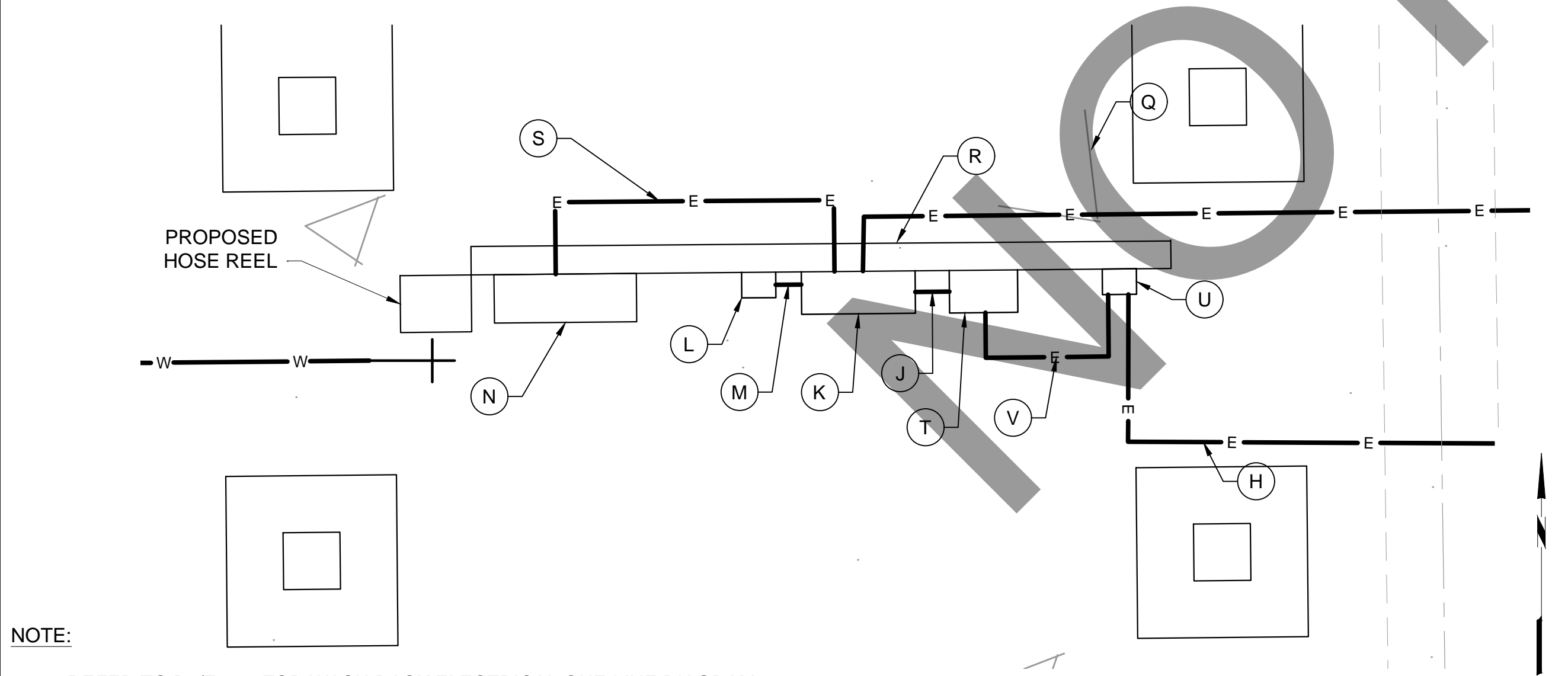
**WASH RACK**  
**ELECTRICAL**  
**PLAN**

**E-101**



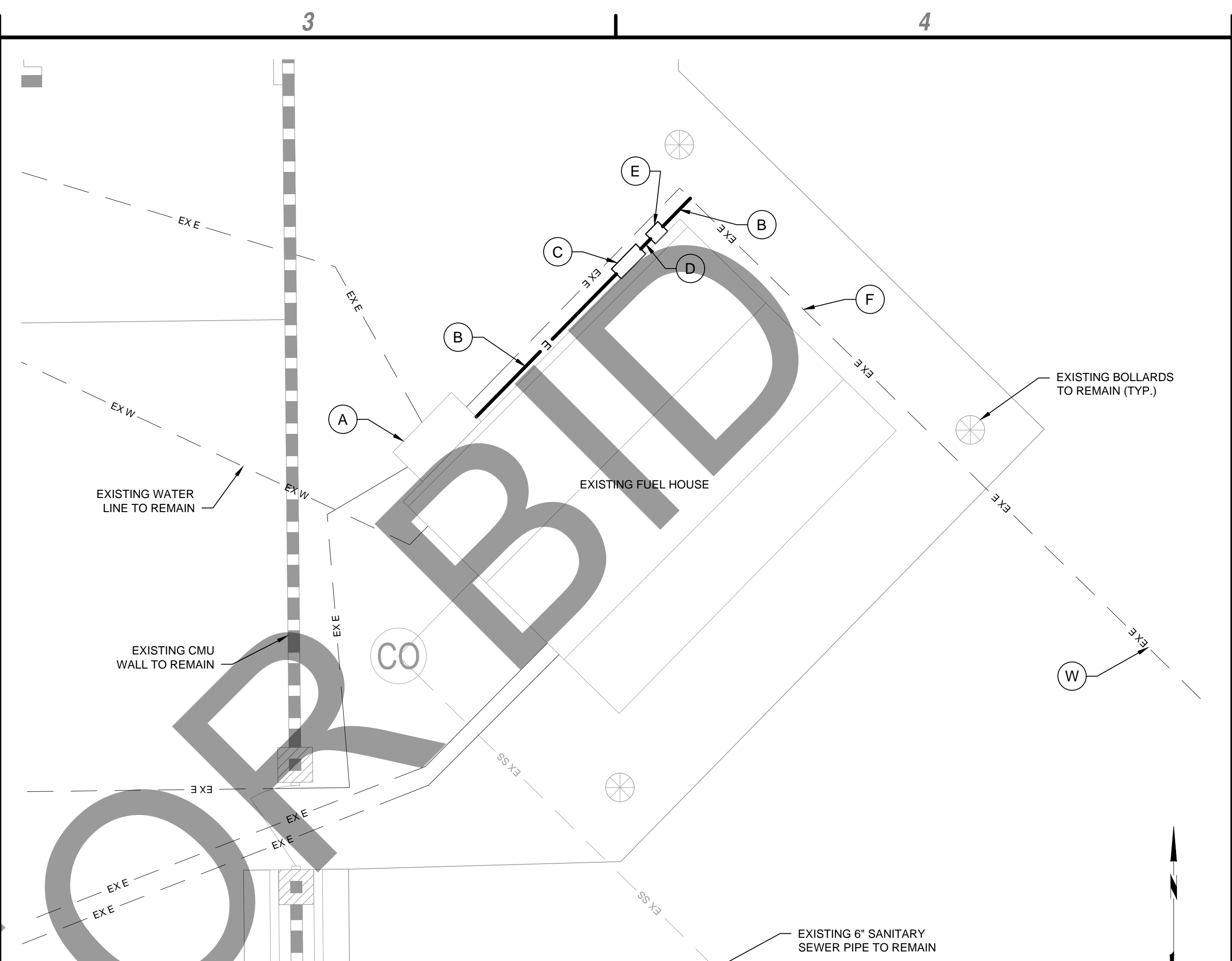
NOTE:  
1. REFER TO B1/E-501 FOR WASH RACK ELECTRICAL ONE-LINE DIAGRAM

**B1 WASH RACK ELECTRICAL PLAN**  
SCALE: 1" = 10'



NOTE:  
1. REFER TO B1/E-501 FOR WASH RACK ELECTRICAL ONE-LINE DIAGRAM

**A1 ELECTRICAL BACKBOARD DETAIL**  
SCALE: 1" = 1'

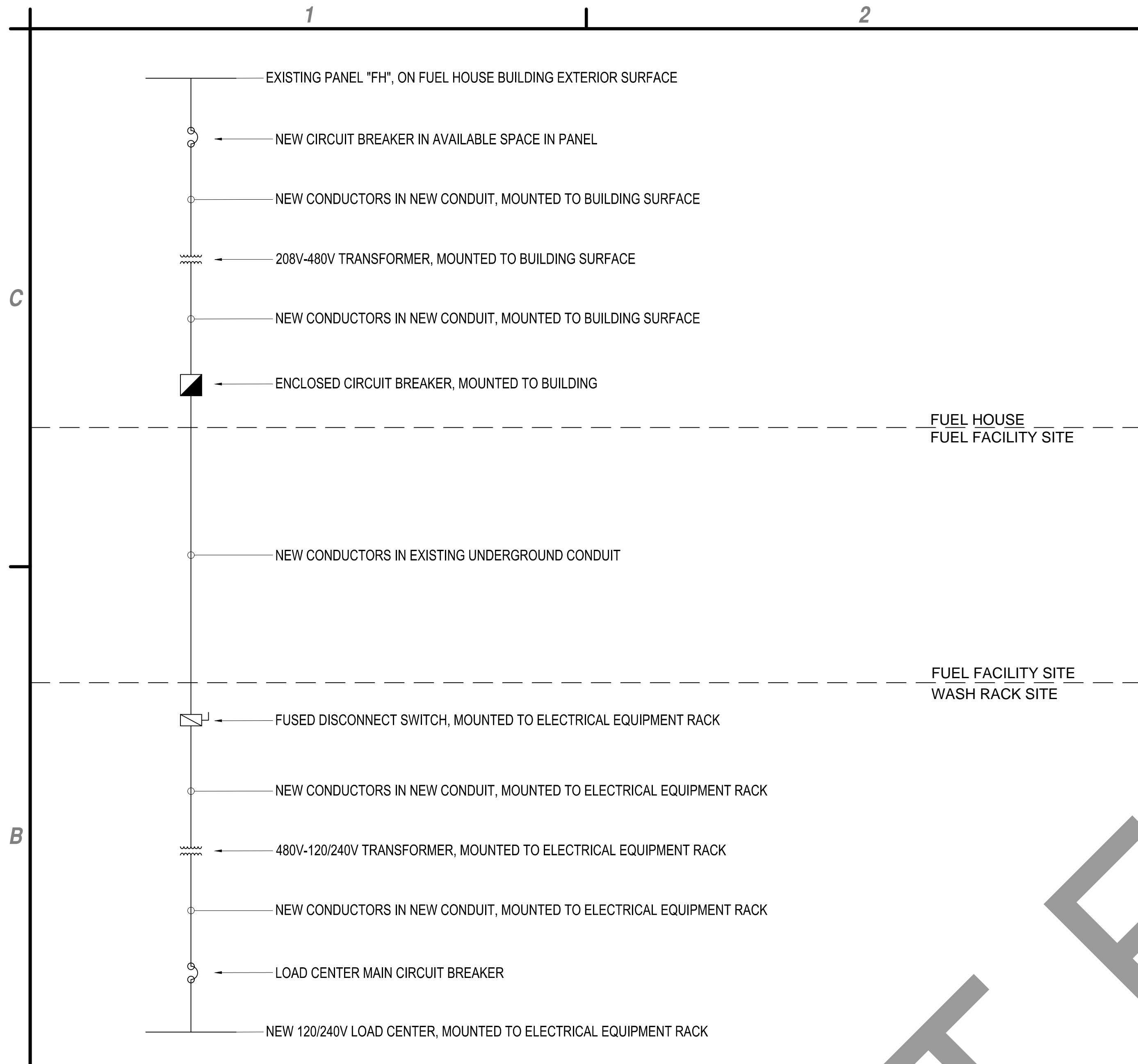


NOTE:  
1. REFER TO B1/E-501 FOR WASH RACK ELECTRICAL ONE-LINE DIAGRAM

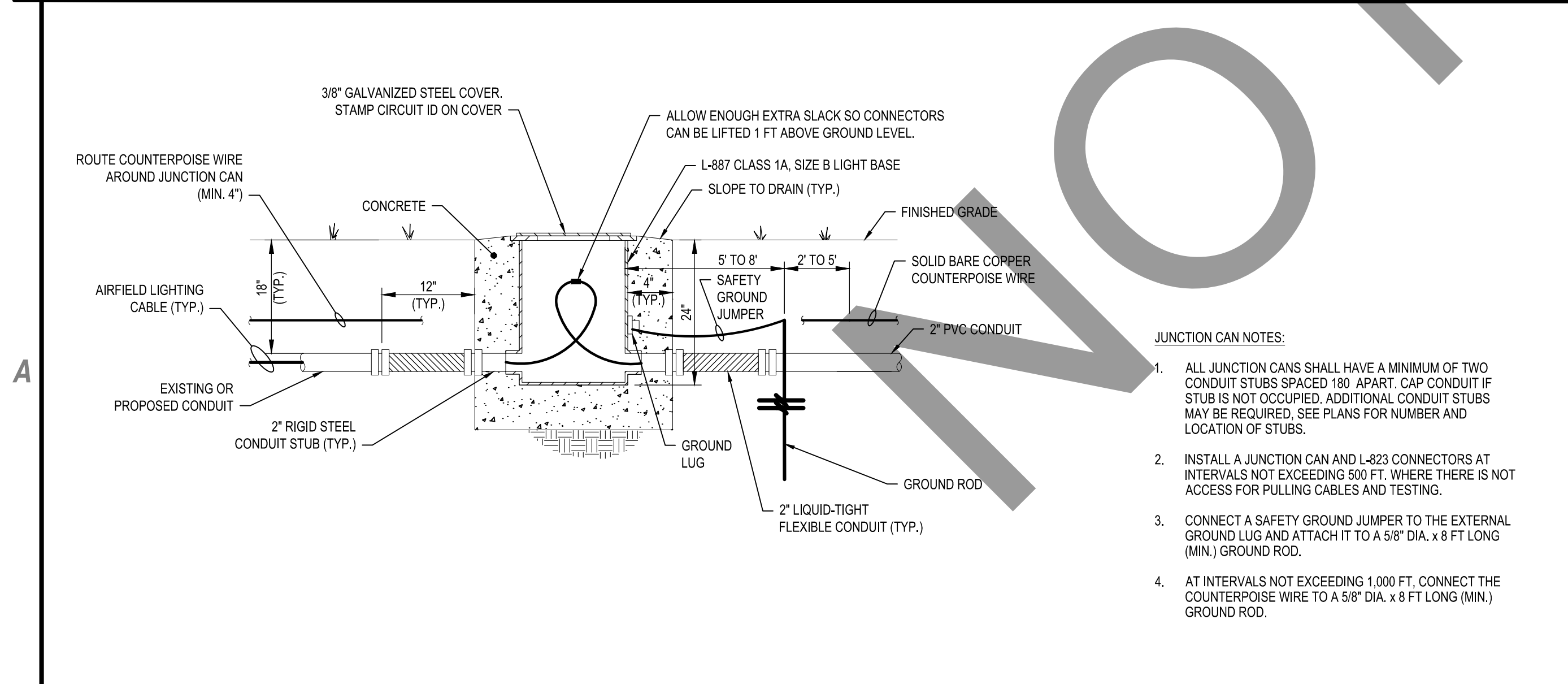
**B4 FUEL HOUSE PLAN**  
SCALE: 1" = 5'

- (A) PROVIDE 60A, 2-POLE BREAKER IN AVAILABLE SPACE IN EXISTING PANEL "FH", ITEM 010260. BREAKER SHALL BE UL-LISTED FOR USE IN EXISTING PANEL. MAINTAIN PANEL SHORT CIRCUIT RATING.
- (B) PROVIDE TWO #6 AWG AND ONE #10 AWG GROUND CONDUCTORS IN 3/4" CONDUIT, ITEM 010260. MOUNT CONDUIT TO SURFACE OF BUILDING.
- (C) PROVIDE 9KVA, 208V-480V SINGLE PHASE DRY-TYPE STEP-UP TRANSFORMER IN NEMA 4X ENCLOSURE, ITEM 010260. BASIS OF DESIGN SHALL BE SIEMENS 1B4Y9-SSN4X OR APPROVED EQUAL.
- (D) PROVIDE TWO #8 AWG AND ONE #6 AWG GROUND CONDUCTOR IN 1" CONDUIT, ITEM 010260. MOUNT CONDUIT TO SURFACE OF BUILDING. THIS FEEDER SEGMENT SHALL NOT EXCEED TEN FEET IN LENGTH.
- (E) PROVIDE 600V, 25A, 2-POLE ENCLOSED CIRCUIT BREAKER, ITEM 010260. PROVIDE NEMA-3R ENCLOSURE.
- (F) PROVIDE TWO #6 AWG AND ONE #10 AWG GROUND CONDUCTORS IN EXISTING 1" CONDUIT, ITEM 010260.
- (G) PROVIDE NON-LOAD BEARING SIZE B JUNCTION CAN AT EXISTING CONDUIT STUB-UP LOCATION.
- (H) PROVIDE TWO #6 AWG AND ONE #10 AWG GROUND CONDUCTORS IN 1" SCHEDULE 40 PVC CONDUIT IN PAVEMENT, ITEM 010260. SEE DETAIL C3/E-501.
- (J) PROVIDE TWO #6 AWG AND ONE #10 AWG GROUND CONDUCTORS IN 3/4" CONDUIT, ITEM 010260. MOUNT CONDUIT TO ELECTRICAL EQUIPMENT RACK. THIS FEEDER SEGMENT SHALL NOT EXCEED TEN FEET IN LENGTH.
- (K) PROVIDE 120/240V LOAD CENTER WITH 50A MAIN CIRCUIT BREAKER, ITEM 010260.
- (L) PROVIDE NEMA TYPE 6-30R SPECIAL-PURPOSE RECEPTACLE WITH IN-USE WEATHERPROOF COVER FOR PRESSURE WASHER. COORDINATE EXACT RECEPTACLE REQUIREMENTS WITH PRESSURE WASHER MANUFACTURER.
- (M) PROVIDE TWO #10 AWG AND ONE #10 AWG CONDUCTORS IN 3/4" CONDUIT, ITEM 010260. MOUNT CONDUIT TO ELECTRICAL EQUIPMENT RACK.
- (N) ELECTRICAL EQUIPMENT CONNECTION TO HOSE REEL. PROVIDE CONNECTION TO EQUIPMENT LEADS, TERMINAL STRIPS OR CONTROL PANEL INCLUDING ALL CONDUCTORS, CONDUIT, JUNCTION BOXES, CONNECTORS, FITTINGS, ETC. REQUIRED FOR PROPER CONNECTION AND OPERATION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER, ITEM 260519.
- (P) ELECTRICAL EQUIPMENT CONNECTION TO CLARIFIER ACTUATOR VALVE. PROVIDE CONNECTION TO EQUIPMENT LEADS, TERMINAL STRIPS OR CONTROL PANEL INCLUDING ALL CONDUCTORS, CONDUIT, JUNCTION BOXES, CONNECTORS, FITTINGS, ETC. REQUIRED FOR PROPER CONNECTION AND OPERATION. COORDINATE EXACT CONNECTION REQUIREMENTS WITH EQUIPMENT MANUFACTURER, ITEM 260519.
- (Q) PROVIDE TWO #12 AWG AND ONE #12 AWG GROUND CONDUCTORS IN 1" SCHEDULE 40 PVC CONDUIT IN PAVEMENT, ITEM 010260. SEE DETAIL C3/E-501.
- (R) PROVIDE NEW CONCRETE POST ELECTRICAL EQUIPMENT RACK. SEE DETAIL A3/E-501.
- (S) PROVIDE TWO #12 AWG AND ONE #12 AWG CONDUCTORS IN 3/4" CONDUIT, ITEM 010260. MOUNT CONDUIT TO ELECTRICAL EQUIPMENT RACK.
- (T) PROVIDE 9KVA, 480V-120/240V SINGLE PHASE DRY-TYPE STEP-DOWN TRANSFORMER IN NEMA 4X ENCLOSURE, ITEM 010260. BASIS OF DESIGN SHALL BE SIEMENS 1F1Y9-SSN4X OR APPROVED EQUAL.
- (U) PROVIDE 240V, 30A, 2-POLE FUSIBLE DISCONNECT SWITCH IN NEMA-3R ENCLOSURE, ITEM 010260. PROVIDE ONE 25A FUSE PER POLE.
- (V) PROVIDE TWO #6 AWG AND ONE #10 AWG GROUND CONDUCTORS IN 1" CONDUIT, ITEM 010260. MOUNT CONDUIT TO ELECTRICAL EQUIPMENT RACK.
- (W) REFER TO SHEET E-100 FOR CONTINUATION

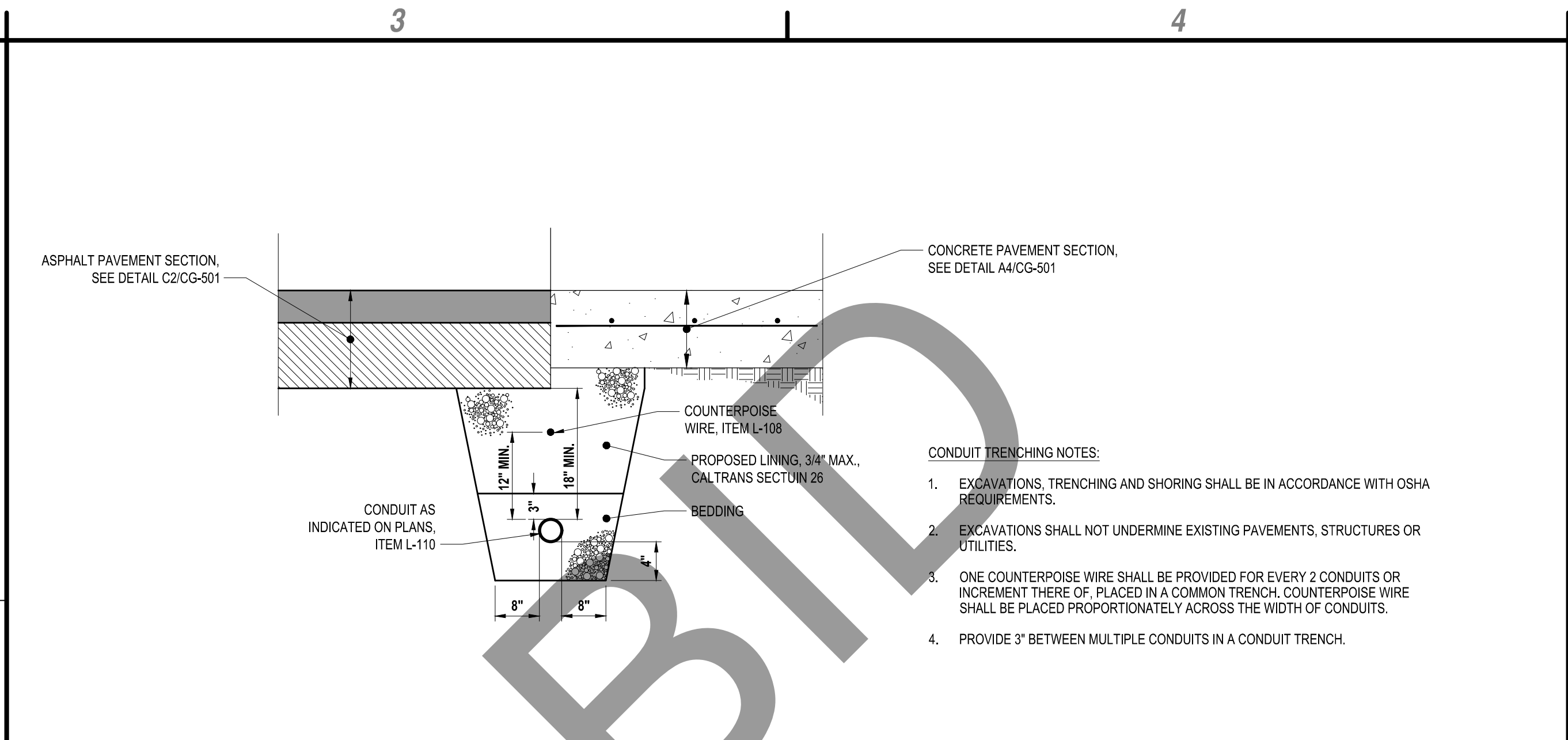
**A3 ELECTRICAL NOTES**  
NOT TO SCALE



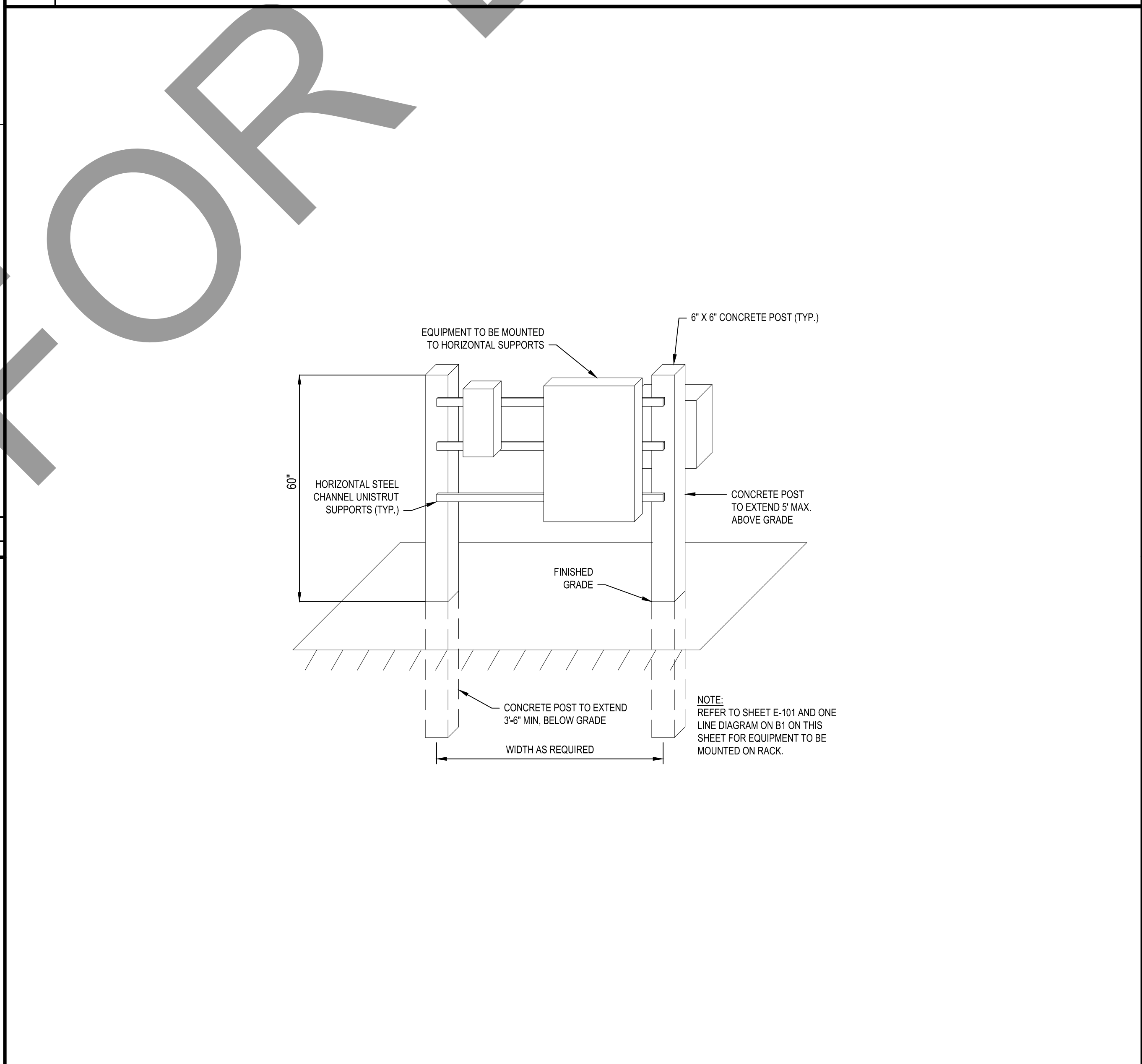
**B1 WASHRACK ONE LINE DIAGRAM**  
NOT TO SCALE



**A1 JUNCTION CAN DETAIL**  
NOT TO SCALE



**C3 CONDUIT TRENCHING DETAIL (IN PAVEMENT)**



**A3 TYPICAL CONCRETE POST RACK DETAIL**  
NOT TO SCALE



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**FINAL**



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**PROJECT #10.10.0696**  
**21600 CORWIN ROAD**  
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**SAN BERNARDINO COUNTY, CALIFORNIA**

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CHECKED BY:		ALW

**ELECTRICAL  
DETAILS AND  
ONE LINE DIAGRAM**

**E-501**

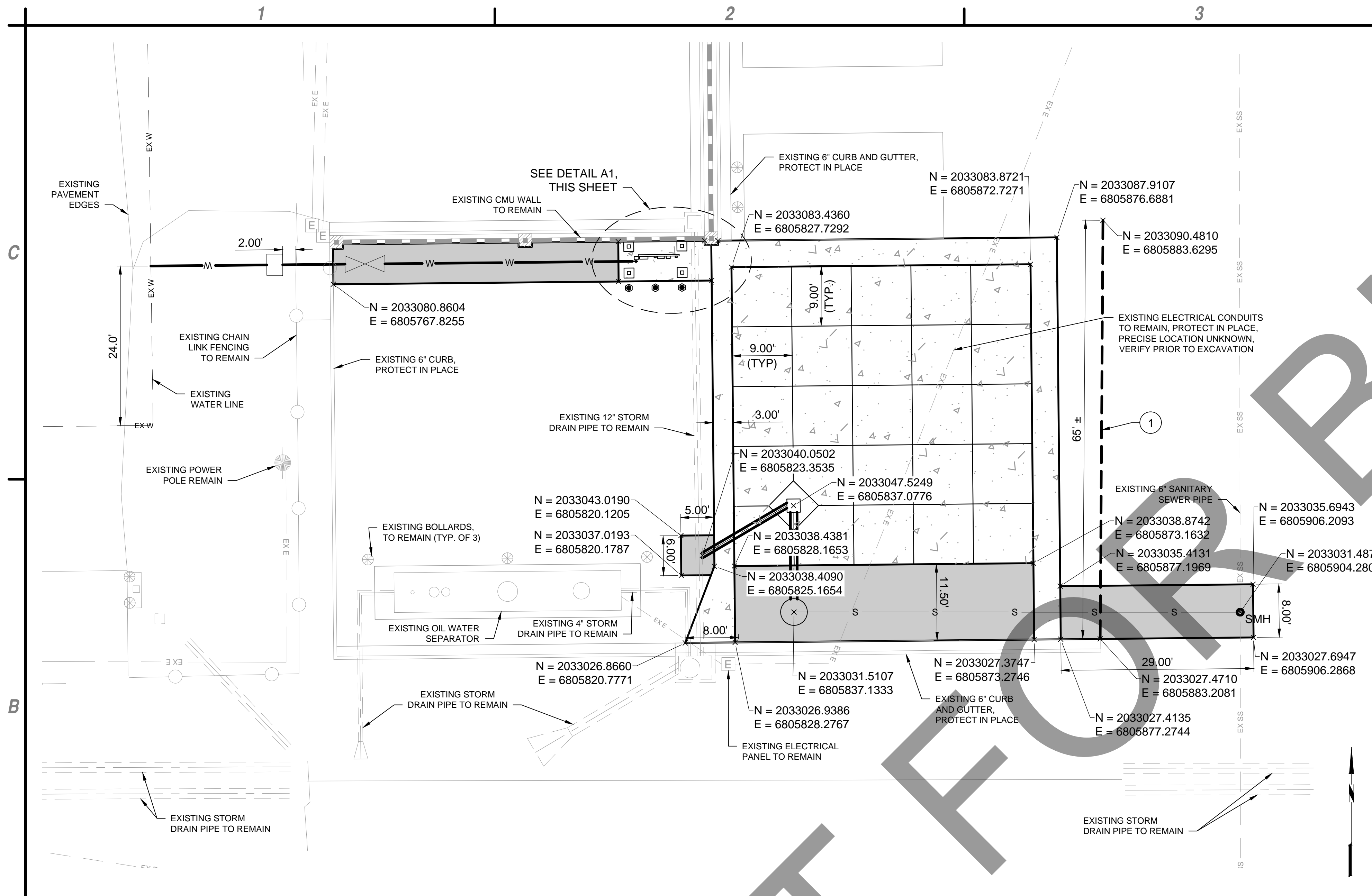


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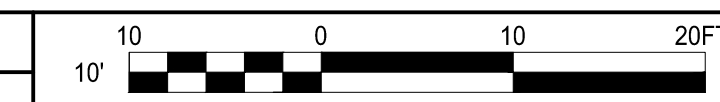


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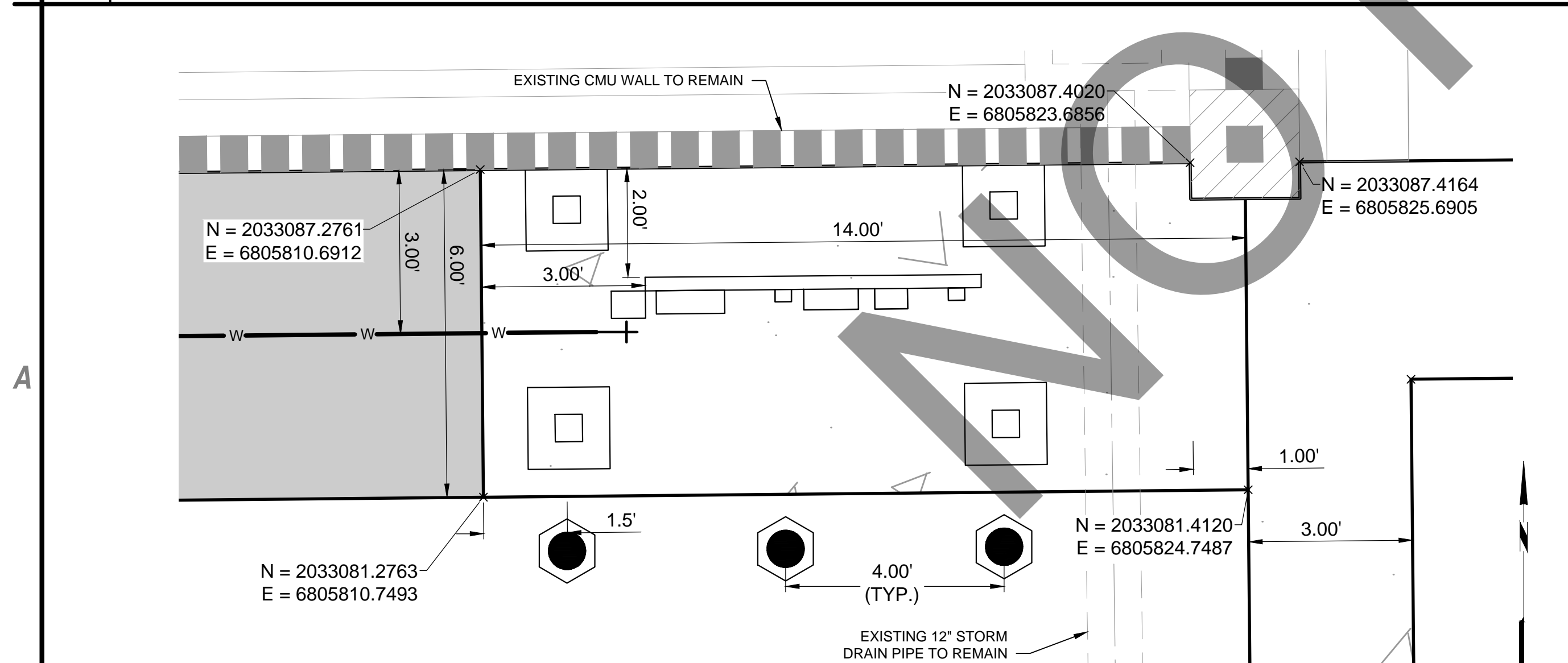
**C4 KEY NOTES**  
 NOT TO SCALE

1. ALL UTILITIES SHALL BE PROTECTED IN PLACE.
2. COORDINATE SERVICE CONNECTION AND METER CONSTRUCTION WITH LIBERTY CONTRACTOR.
3. EXCAVATIONS GREATER THAN FIVE FEET IN DEPTH ARE ANTICIPATED FOR THIS PROJECT. THE CONTRACTOR SHALL COMPLY WITH THE PROVISIONS FOR "SHORING AND BRACING DRAWINGS" IN SECTION 6705 OF THE CALIFORNIA LABOR CODE. PRIOR TO BEGINNING ANY TRENCH OR STRUCTURE EXCAVATION EXCEEDING 5 FEET IN DEPTH, THE CONTRACTOR SHALL SUBMIT TO THE OWNER FOR ACCEPTANCE, A DETAILED PLAN SHOWING THE DESIGN OF SHORING, BRACING, SLOPING, OR OTHER PROVISIONS FOR WORKER PROTECTION AGAINST THE HAZARD OF CAVING GROUND DURING THE EXCAVATION OF SUCH TRENCHES OR STRUCTURE EXCAVATION. IF SUCH PLAN VARIES FROM THE SHORING SYSTEM ESTABLISHED IN THE CONSTRUCTION SAFETY ORDERS OF THE STATE OF CALIFORNIA, SUCH ALTERNATIVE SYSTEM PLANS SHALL BE PREPARED BY A LICENSED ENGINEER IN THE STATE OF CALIFORNIA.

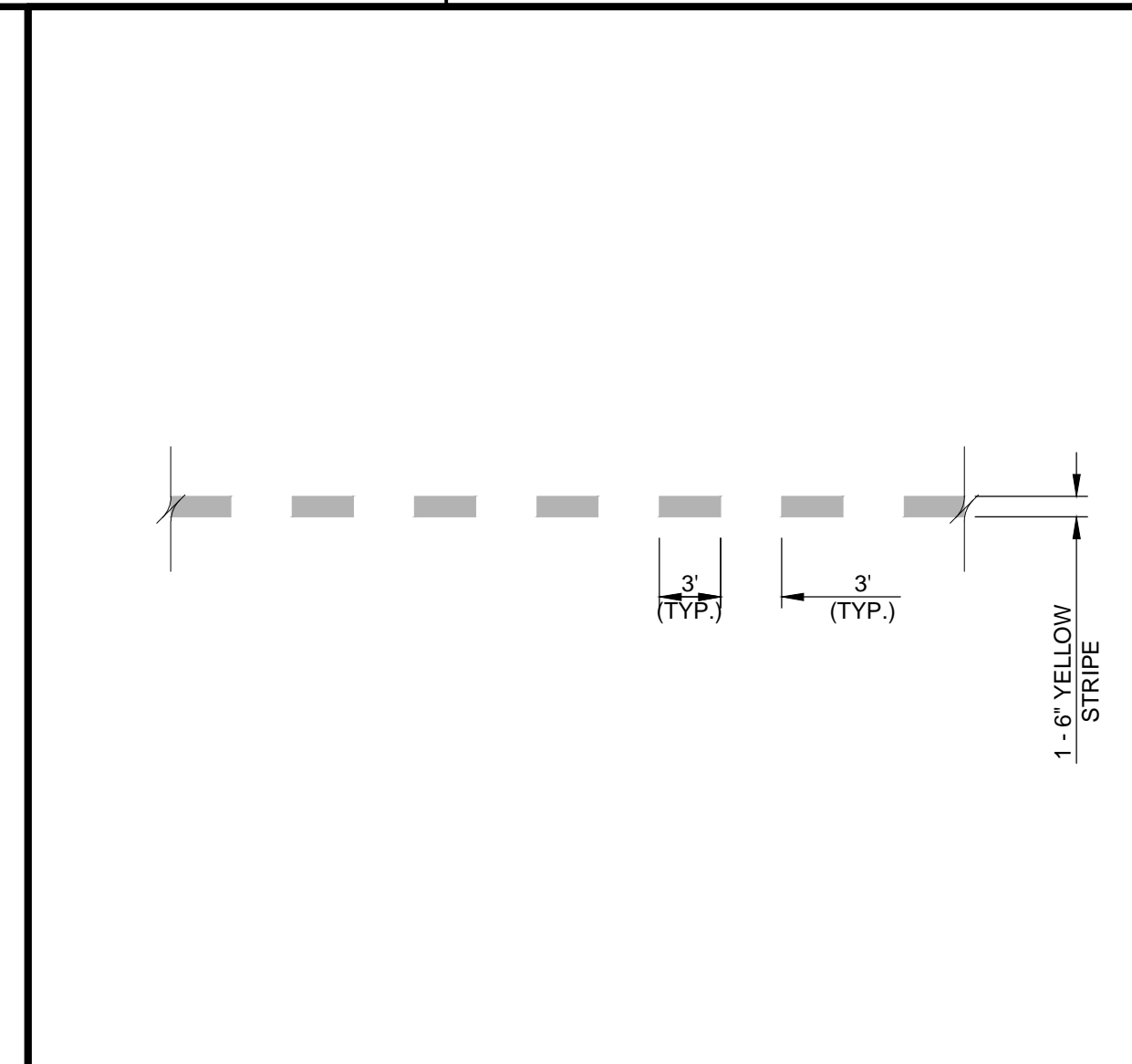
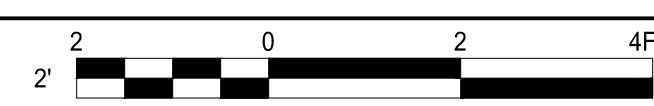
**B1 WATER SERVICE PLAN**  
 SCALE: 1" = 10'



**B4 NOTES**  
 NOT TO SCALE



**A1 ELECTRICAL BACKBOARD AND WATER SERVICE DETAIL**  
 SCALE: 1" = 2'



**A3 INTERMEDIATE HOLDING POSITION MARKING DETAIL**  
 NOT TO SCALE

Oct 19, 2023 - 7:58pm  
 P:\Project\W15 - County of San Bernardino\W15001006 - Terminal Parking Lot\Design\CADD\Sheet - Final\WASH - RACK\CM101.dwg

MARK	DATE	DESCRIPTION
REVISIONS		
PROJECT NO: K15.001.006		
DATE: OCTOBER 2023		
DRAWN BY: STB		
DESIGNED BY: BCS		
CHECKED BY: ALW		

**WASH RACK  
 GEOMETRY AND  
 MARKING PLAN**

**CM101**