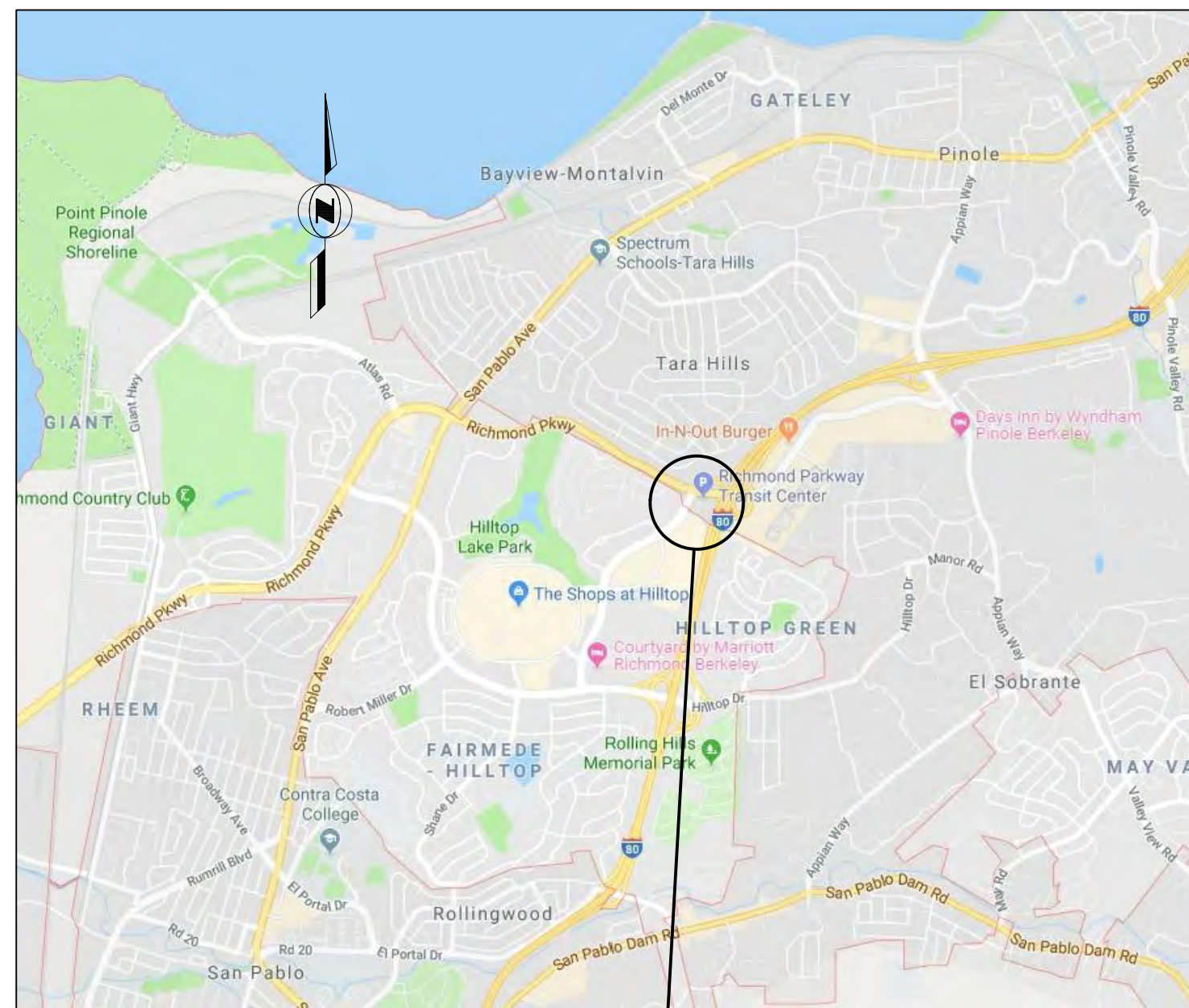




## ABBREVIATIONS

VICINITY MAP



## PROJECT SITE

## APPLICABLE CODES

|      |            |                     |
|------|------------|---------------------|
| 2016 | CALIFORNIA | BUILDING CODE       |
| 2016 | CALIFORNIA | PLUMBING CODE       |
| 2016 | CALIFORNIA | MECHANICAL CODE     |
| 2016 | CALIFORNIA | ELECTRICAL CODE     |
| 2016 | CALIFORNIA | ENERGY CODE         |
| 2016 | CALIFORNIA | GREEN BUILDING CODE |

## SITE INFORMATION

COORDINATES AND ELEVATIONS SHOWN ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM NAD83, ZONE 3. THE PROJECT DATUM USED WAS NAD 83 (2012) AND THE GEOID IS G201AU55.



## IMPORTANT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT CODE  
REQUIRES A DIGALERT IDENTIFICATION NUMBER  
BE ISSUED BEFORE A "PERMIT TO EXCAVATE"  
WILL BE VALID. FOR YOUR DIGALERT I.D.  
NUMBER CALL UNDERGROUND SERVICE ALERT  
TOLL FREE 1-800-642-2444 TWO WORKING  
DAYS BEFORE YOU DIG

## DRAWING INDEX

| <u>SHEET</u> | <u>DWG NO.</u> | <u>SHEET TITLE</u>                     |
|--------------|----------------|--|
| 1            | C0             | TITLE SHEET                            |
| 2            | C1             | GENERAL NOTES                          |
| 3            | C2             | EXISTING CONDITIONS SURVEY             |
| 4            | C3             | TRAFFIC CONTROL PHASING PLAN           |
| 5            | C4             | DEMOLITION PLAN                        |
| 6            | C5             | SITE PLAN                              |
| 7            | C6             | UTILITY PLAN                           |
| 8            | C7             | UTILITIES PROFILE                      |
| 9            | C8             | PAVING REPAIR AND RESURFACING PLAN     |
| 10           | C9             | STRIPING PLAN                          |
| 11           | C10            | BLDG. FOUNDATION PLAN & DETAILS        |
| 12           | C11            | BLDG. FLOOR PLAN, SCHEDULES, & DETAILS |
| 13           | SD1            | STANDARD UTILITY DETAILS               |
| 14           | SD2            | CALTRANS STANDARD PLAN DETAILS         |
| 15           | SD3            | STANDARD DETAILS                       |
| 16           | E1             | ELECTRICAL PLAN                        |

## SCOPE OF PROJECT

THESE PLANS ARE FOR SITE IMPROVEMENTS AT THE RICHMOND PARKWAY TRANSIT CENTER INCLUDING PROVISION FOR INSTALLATION OF A PREMANUFACTURED RESTROOM BUILDING AS MANUFACTURED BY THE PUBLIC RESTROOM COMPANY (OR APPROVED EQUAL), INCLUDING PERMITS, NEW SERVICE UTILITIES AND UTILITY TRENCHES, PULL BOXES AND SERVICE CONNECTIONS, INCLUDING SEWER, WATER, ELECTRICAL AND TWO COMMUNICATION MICROFIBER LINES, AND CONCRETE CURB AND GUTTER, SIDEWALK AND PAVEMENT, AND STRUCTURAL CONCRETE AS SHOWN ON THE PLANS INCLUDING BUT NOT LIMITED TO BUILDING FOUNDATION, REFURBISHMENT OF ASPHALT PARKING AREAS, AND RE-STRIPING AND RE-PAINTING PAVEMENT MARKINGS AND CURBS.

[illegible]

**CE**

**CHOW ENGINEERING, INC.**  
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TITLE SHEET  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS

---

OWNER:  AC TRANSIT  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

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| SHEET SIZE   | ARCH D   |
| DRAWN        | DW       |
| CHECKED      | LK       |
| B NO.        | 19R-101  |
| DRAWING NO.  |          |
| C-0          |          |
| SHEET NO.    | 1 of 16  |
| DIVISION NO. |          |
| 0            |          |



1. ALL WORK SHALL BE IN COMPLIANCE WITH THE 2016 CALIFORNIA BUILDING CODE, 2016 CALIFORNIA FIRE CODE, 2016 CALIFORNIA MECHANICAL CODE, 2016 CALIFORNIA ELECTRICAL CODE, 2016 CALIFORNIA PLUMBING CODE, AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL LAWS AND REGULATIONS.
2. ALL WORK SHALL BE IN COMPLIANCE WITH CALIFORNIA DEPARTMENT OF TRANSPORTATION (CALTRANS) STANDARD PLANS AND SPECIFICATIONS.
3. THE CONTRACTOR SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, DURING THE COURSE OF CONSTRUCTION OF THIS PROJECT. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS.
4. PRIOR TO COMMENCING CONSTRUCTION, THE CONTRACTOR SHALL VERIFY EXISTING DIMENSIONS, ELEVATIONS, AND CONDITIONS. INCLUDING CONDITIONS FOR GRADING, DRAINAGE AND UNDERGROUND FACILITIES. IF CONDITIONS DIFFER FROM THOSE SHOWN ON THE PLANS, THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND SHALL NOT BEGIN CONSTRUCTION UNTIL THE CHANGED CONDITIONS HAVE BEEN EVALUATED.
5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REVIEW AND COORDINATION OF ALL PROJECT DOCUMENTS, DRAWINGS, AND SPECIFICATIONS PRIOR TO THE START OF CONSTRUCTION. ANY DISCREPANCIES, OMISSIONS, AND/OR CONFLICTS WITH CODE REQUIREMENTS SHALL BE REPORTED TO THE OWNER'S REPRESENTATIVE PRIOR TO THE START OF CONSTRUCTION SO THAT A CLARIFICATION CAN BE ISSUED. ANY WORK PERFORMED IN CONFLICT WITH THE CONTRACT DOCUMENTS OR IN CONFLICT WITH ANY CODE REQUIREMENTS SHALL BE CORRECTED BY THE CONTRACTOR AT THEIR OWN EXPENSE AND AT NO EXPENSE TO THE OWNER OR ENGINEER.
6. THE CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD THE ENGINEER HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF THE ENGINEER.
7. ANY DEVIATION, SUBSTITUTION OR ALTERATION TO THE DESIGN SHALL BE SUBJECT TO REVIEW BY THE ENGINEER.
8. THE EXISTENCE, LOCATION AND CHARACTERISTICS OF UTILITY INFORMATION SHOWN HAS BEEN OBTAINED FROM A REVIEW OF AVAILABLE RECORDS DATA. NO REPRESENTATION IS MADE AS TO THE ACCURACY OR COMPLETENESS OF SAID UTILITY INFORMATION. THE CONTRACTOR SHALL TAKE PRECAUTIONARY MEASURES TO PROTECT THE UTILITY LINES WHETHER SHOWN OR NOT ON THESE PLANS.
9. THE CONTRACTOR SHALL REPAIR OR REPLACE ANY DAMAGE TO EXISTING FACILITIES OCCURRING DURING THE COURSE OF DEMOLITION, EXCAVATION, OR CONSTRUCTION, WHETHER RESULTING DIRECTLY OR INDIRECTLY FROM THEIR OPERATIONS, WHETHER OR NOT SHOWN ON THESE DRAWINGS, WITHOUT ADDITIONAL COST TO THE OWNER.
10. DRAWINGS INDICATE GENERAL AND TYPICAL DETAILS OF CONSTRUCTION. WHERE CONDITIONS ARE NOT SPECIFICALLY INDICATED BUT ARE OF SIMILAR CHARACTER TO DETAILS SHOWN, SIMILAR DETAILS OF CONSTRUCTION SHALL BE APPLIED, SUBJECT TO REVIEW BY THE ENGINEER.
11. THE CONTRACTOR SHALL OBTAIN ALL REQUIRED PERMITS, THE CONTRACTOR SHALL PAY FOR ALL OF THE WORK TO OBTAIN AND TO COMPLY WITH ALL PERMIT REQUIREMENTS. THE DISTRICT WILL REIMBURSE THE CONTRACTOR FOR THE PERMIT FEES ONLY.
12. THE CONTRACTOR SHALL SUBMIT "AS-BUILT" DRAWINGS TO THE OWNER (AC TRANSIT) UPON COMPLETION OF WORK. RETENTIONS SHALL NOT BE RELEASED PRIOR TO THE CONTRACTOR'S SUBMITTAL OF APPROVED "AS-BUILTS".

- FIRE EXTINGUISHER: CONTRACTOR SHALL PROVIDE AND MAINTAIN A PORTABLE FIRE EXTINGUISHER OF THE TYPE SIZE APPROVED BY THE FIRE DEPARTMENT FIELD INSPECTOR AT THE JOB SITE THROUGHOUT CONSTRUCTION.
2. NO HAZARDOUS MATERIALS: NO HAZARDOUS CHEMICALS OR MATERIALS SHALL BE USED OR STORED IN THIS AREA OR ADJACENT AREAS TO THIS PROJECT.
3. COMPLY W/DRAWINGS: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO COORDINATE, SUPERVISE, AND COMMUNICATE WITH THE ENGINEER, OWNER, AND SUBCONTRACTORS ALL WORK TO INSURE CONFORMANCE WITH THE APPROVED DRAWINGS AND SPECIFICATIONS.
4. HOT WORK: PRIOR WRITTEN APPROVAL AND HOT WORK PERMIT FOR ALL FIELD WELDING IS REQUIRED.
5. RIGGING: ALL RIGGING SHALL BE SCHEDULED, COORDINATED, AND HAVE PRIOR APPROVAL FROM THE DISTRICT (AC TRANSIT).
6. SITE CLEANLINESS: THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE DAILY REMOVAL AND LEGAL DISPOSAL OF ALL DEMOLITION SPOILS AND REMOVED MATERIALS. THE CONTRACTOR MAY NOT STOCKPILE OR STORE ANY NEW OR REMOVED MATERIAL ON SITE.
7. COMPACTION (MIN): ALL FILL SOILS OR SOILS DISTURBED OR OVEREXCAVATED SHALL BE COMPACTED TO NOT LESS THAN 95% PERCENT OF MAXIMUM DENSITY AS DETERMINED BY A.S.T.M. SOIL COMPACTION TEST D1557. ALL BACKFILL SHALL BE 100% VIRGIN CLASS 2 AB COMPACTED TO 95% IN ACCORDANCE WITH THE ASTM D1557.
8. FIELD DENSITY: SHALL BE DETERMINED BY NUCLEAR GAUGE OR DRIVE CYLINDER METHOD. IN FINE-GRAINED COHESIVE SOILS, FIELD DENSITY MAY BE DETERMINED BY THE DRIVE-CYLINDER METHOD, A.S.T.M. D2937-71, THE METHOD OF DETERMINING FIELD DENSITY SHALL BE SHOWN IN THE COMPACTION REPORT. OTHER METHODS MAY BE USED IF RECOMMENDED BY THE SOIL ENGINEER AND APPROVED IN ADVANCE BY BUILDING OFFICIAL.
9. SAWCUT REMOVALS: ALL PAVEMENT AND CONCRETE REMOVALS SHALL BE SAWCUT.
10. ADJUST (E) TO (F.G.): EXISTING SLABS, CURBS, GUTTERS AND ASPHALT & CONCRETE PAVEMENT WITHIN THE LIMITS OF NEW CONSTRUCTION SHALL BE ADJUSTED TO FINAL GRADE, UNLESS INDICATED OTHERWISE.
11. CONCRETE CURBS, GUTTERS AND SIDEWALKS SHALL BE CONSTRUCTED IN ACCORDANCE WITH SECTION 303-5.4 OF THE "STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION" UNLESS INDICATED OTHERWISE.
12. CONSTRUCTION DUST CONTROL: MEASURES SHALL BE REQUIRED IN ACCORDANCE WITH CITY'S DUST CONTROL ORDINANCE. GRADING WILL BE DISCONTINUED DURING FIRST-STAGE SMOG, DURING CONSTRUCTION, DUST CONTROL ALERTS AND SUSPENDED DURING PERIODS OF HIGH WIND, I.E. OVER 15 MPH ALL HAULING TRUCKS SHALL HAVE LOADS COVERED OR WETTED AND LOADED BELOW THE SIDEBOARD LEVEL TO MINIMIZE DUST.

1. ANY INSPECTIONS, SPECIAL OR OTHERWISE, THAT ARE REQUIRED BY THE BUILDING CODES, LOCAL BUILDING DEPARTMENTS, OR THESE PLANS, SHALL BE DONE BY AN INDEPENDENT INSPECTION COMPANY. JOB SITE VISITS BY THE ENGINEER DO NOT CONSTITUTE, OR SUBSTITUTE, INSPECTIONS UNLESS SPECIFICALLY CONTRACTED FOR.
2. THE CONTRACTOR SHALL BE RESPONSIBLE TO COMPLY WITH ALL SPECIAL INSPECTIONS REQUIRED BY THE STATE AND LOCAL AGENCIES AS STATED IN THE 2016 CBC SECTION 1704.

BACK FILL:

A. AGGREGATE BASE:

- \*95% RELATIVE COMPACTION, PLACEMENT IN 8" LIFTS
- \*90% PASSING NO. 4 SIEVE AND LESS THAN 5% PASSING NO. 200 SIEVE.

B. LEAN CONCRETE MIX:

- \* MIN OF 188 LBS OF PORTLAND CEMENT PER CY
- \* WATER CONTENT SUFFICIENT TO PRODUCE A FLUID, WORKABLE MIX THAT WILL FLOW AND CAN BE PUMPED WITHOUT SEGREGATION OF THE AGGREGATE DURING PLACEMENT.

AGGREGATE BASE: 100 % VIRGIN CLASS II AGGREGATE BASE 95% MIN COMPACTION

WELDING:                      AWS D1.1 SPECIFICATIONS.                      E-70XX ELECTRODES

REINFORCING BARS: ASTM A615 OR A615M GRADE 60, DEFORMED

CONCRETE:

READY MIX OR PROJECT-SITE MIXING:    ASTM C 94.

PORTLAND CEMENT:    ASTM C 150, TYPE 1 OR II.

   MIN 594 LBS OF PORTLAND CEMENT PER CY

   28-DAY ULTIMATE COMPRESSIVE STRENGTH OF 3500 PSI

AGGREGATE:    ASTM C 33, UNIFORM GRADATION,  $\frac{3}{4}$ " MAXIMUM AGGREGATE.

WATER:                      ASTM C 94

CURING COMPOUND:    ASTM C 309

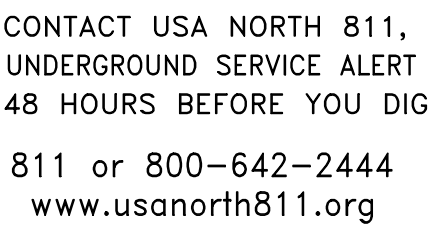
ADMIXTURES:    ASTM C 494

ASPHALT CONCRETE:

COMPLY WITH CALTRANS STANDARD PLANS AND SPECIFICATIONS

1. CONTRACTOR IS TO FURNISH AND INSTALL THE PREENGINEERED AND PREMANUFACTURED RESTROOM BUILDING AS SHOWN IN THESE PLANS AND PER THE PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL PROVIDE ARCHITECTURAL AND STRUCTURAL DRAWINGS AND CALCULATIONS STAMPED BY A ARCHITECT OR CIVIL OR STRUCTURAL ENGINEER REGISTERED IN THE STATE OF CALIFORNIA.
2. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR PROVIDING THE PRE-MANUFACTURED RESTROOM STRUCTURE INCLUDING ALL ELEMENTS, DETAILS, APPURTENANCES, INCLUDING THE PREPARATION AND SUBMITTAL OF A COMPLETE DEFERRED SUBMITTAL TO CALTRANS FOR THE PRE-MANUFACTURED RESTROOM STRUCTURE INCLUDING ALL ELEMENTS, UTILITIES, DETAILS AND APPURTENANCES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING APPROVAL PRIOR TO THE INSTALLATION OF THE STRUCTURE.

1. CLEAR AND GRUB AREA. EXCAVATE SOIL TO DEPTH SHOWN ON THE PLANS. SCARIFY SUBBASE AND COMPACT TO 95%.
2. BACKFILL AS NECESSARY WITH AGGREGATE BASE. PLACE BASE AND COMPACT TO 95%. FORM AND POUR FOOTING FOR PREMANUFACTURED BUILDING. PROVIDE LEVELING SAND BASE BELOW THE BUILDING FOUNDATION SLAB. STOCKPILE EXTRA SAND FOR THE MANUFACTURER'S USE DURING INSTALLATION.
3. CONTRACTOR TO TRENCH AND INSTALL UTILITIES FROM THE UTILITY SERVICE CONNECTION TO THE POC SHOWN ON THE UTILITY DRAWING (APPROXIMATELY 5 FOOT FROM THE BUILDING).
4. CONTRACTOR TO PREPARE SITE FOR CRANE AND RIGGING FOR LIFTING AND SETTING OF THE BUILDING. CONTRACTOR SHALL PREPARE A CRANE LIFT PLAN FOR REVIEW BY THE DISTRICT AT LEAST ONE MONTH PRIOR TO THE PLANNED LIFT.
5. PLACE CONCRETE SIDEWALK AROUND THE RESTROOM BUILDING. CONCRETE PLACEMENT TO COMPLY WITH ACI 304R FOR MEASURING, MIXING, TRANSPORTING, AND PLACING CONCRETE.
  - CONSOLIDATE CONCRETE WITH MECHANICAL VIBRATING EQUIPMENT.
  - SCREED AND INITIAL FLOAT CONCRETE SURFACES USING BULL FLOATS OR DARBIES BEFORE EXCESS MOISTURE OR BLEED WATER APPEARS ON THE SURFACE.
5. CURING CONCRETE:
  - BEGIN CURING AFTER FINISHING CONCRETE, BUT NOT BEFORE FREE WATER HAS DISAPPEARED FROM THE CONCRETE SURFACE.
  - CURE FOR AT LEAST 7 DAYS BY CONTINUOUS MOIST CURING, MOISTURE RETAINING-COVER CURING, OR CURING COMPOUND.
  - CURING COMPOUND SHALL BE PROTECTED FROM DAMAGE FOR THE FULL 7 DAY CURE TIME.
  - HI-EARLY STRENGTH CONCRETE SHALL BE CURED FOR AT LEAST 3 DAYS.
6. AC OVERLAY:
  - PREPARE AND SUBMIT A PHASING PLAN TO ENABLE CONTINUED USE OF SECTIONS OF PARKING AND BUS OPERATIONS DURING OVERLAY PLACEMENT.
  - CLEAN DESIGNATED AREA AND APPLY LIQUID ASPHALT BINDER.
  - INSTALL ENGINEERED PAVING FABRIC (PETROMAT OR APPROVED EQUAL).
  - FURNISH AND INSTALL 2 INCHES OF COMPACTED ASPHALT CONCRETE OVERLAY.
  - GRIND AND/OR TAPER EDGES FOR SMOOTH TRANSITION TO ADJOINING ASPHALT GRADE.
7. ASPHALT REPLACEMENT:
  - REMOVE DESIGNATED AREAS OF PAVEMENT AND EXCAVATE 6 INCHES AND OFF-HAUL DEBRIS.
  - RE-GRADE AND COMPACT SUB-GRADE.
  - APPLY TACK COAT ALONG ALL EDGES WITH SS-1 OIL.
  - FURNISH AND PLACE 6 INCHES OF ASPHALT CONCRETE PLACED IN TWO LIFTS.
  - SEAL AND SAND ALL EDGES.
8. SEAL COAT:
  - CLEAN DESIGNATED AREAS USING POWER BROOMS OR POWER BLOWERS.
  - CLEAN AND TREAT ALL OIL SPOTS.
  - MASK ALL UTILITY BOXES, MONUMENTS, MANHOLES, AND COVERS.
  - APPLY TWO COATS OF ASPHALT SEAL COAT.



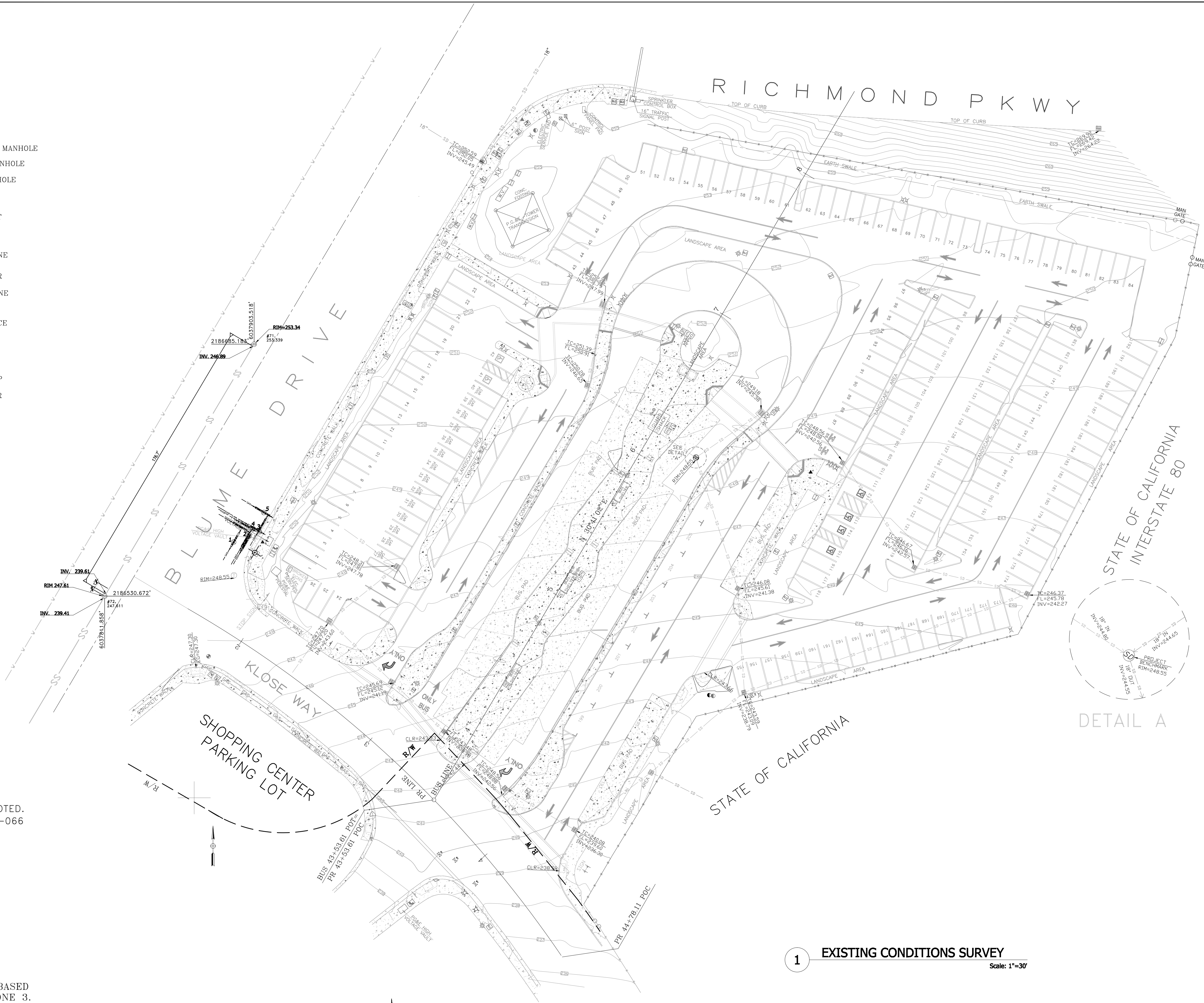
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| SCALE        | AS NOTED |
| SHEET SIZE   | ARCH D   |
| DRAWN        | AZ       |
| CHECKED      | LK       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  |          |
| C-1          |          |
| SHEET NO.    | 2 of 16  |
| REVISION NO. | 0        |



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## LEGEND

|  |  |  |                        |
|--|--|--|------------------------|
|  | FOUND STANDARD MONUMENT<br>PER 133 L.S.M. 29 |  | WATER METER            |
|  | SET N&S                                      |  | WATER VALVE            |
|  | POWER POLE                                   |  | FIRE HYDRANT           |
|  | GUY POLE                                     |  | FIRE RISER             |
|  | BOLLARD                                      |  | SPOT ELEVATION         |
|  | SIGN   |  | SANITARY SEWER MANHOLE |
|  | STREET LIGHT                                 |  | STORM DRAIN MANHOLE    |
|  | GATE POST                                    |  | TELEPHONE MANHOLE      |
|  | PIPE LINE MARKER                             |  | CATCH BASIN            |
|  | POST (AS NOTED)                              |  | SEWER CLEANOUT         |
|  | IRRIGATION BOX                               |  | PG&E GAS LINE          |
|  | STREET LIGHT BOX                             |  | STORM DRAIN LINE       |
|  | TELEPHONE BOX                                |  | DOMESTIC WATER         |
|  | COMMUNICATION BOX                            |  | STORM DRAIN LINE       |
|  | ELECTRICAL BOX                               |  | CHAIN LINK FENCE       |
|  | POWER BOX (CALTRANS)                         |  | EARTH SWALE            |
|  | TV CABLE BOX                                 |  | HANDICAP RAMP          |
|  | TRAFFIC BOX (CALTRANS)                       |  | CENTERLINE RAMP        |
|  | SERVICE BOX (CALTRANS)                       |  | EDGE OF GUTTER         |
|  | STREET LIGHT BOX (CALTRANS)                  |  | FLOWLINE               |
|  | BUS STOP SIGN                                |  | INVERT                 |
|  |  |  | TOP OF CURB            |
|  |  |  | TOP OF GRATE           |



## GENERAL NOTES:

- 1) ALL ELEVATIONS ARE GROUND ELEVATION, UNLESS NOTED.
- 2) ASSESSOR'S PARCEL NO. 405-290-059 & 405-209-066
- 3) DATE SURVEYED; 01/14/19 - 01/24/19

## BENCHMARK

ELEVATIONS SHOWN HEREON ARE BASED ON THE ELEVATION OF A STORM DRAIN MANHOLE RIM AS SHOWN HEREON. ELEVATION BASED ON A GPS OBSERVATION USING THE TOPCON RTK NETWORK. ELEVATION = 248.55 NVGD 88

## BASIS OF BEARING

COORDINATES AND ELEVATIONS SHOWN HEREON ARE BASED ON THE CALIFORNIA COORDINATE SYSTEM NAD 83, ZONE 3. THE PROJECT DATUM USED WAS NAD 83 (2012) AND THE GEOID IS G201AU55. ALL INFORMATION WAS OBTAINED USING THE TOPCON HIPER ii ROVER RECEIVER, USING THE TOPCON NETWORK IN REAL TIME (RTK). NO ADJUSTMENTS WERE MADE TO THE SURVEY DATA.

## 1 EXISTING CONDITIONS SURVEY

Scale: 1"=30'



CONTACT USA NORTH 811,  
UNDERGROUND SERVICE ALERT  
48 HOURS BEFORE YOU DIG  
811 or 800-642-2444  
www.usanorth811.org

| REVISIONS | BY | DATE |
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**CE** **CHOW ENGINEERING, INC.**  
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DRAWING TITLE:  
**EXISTING CONDITIONS SURVEY  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS**

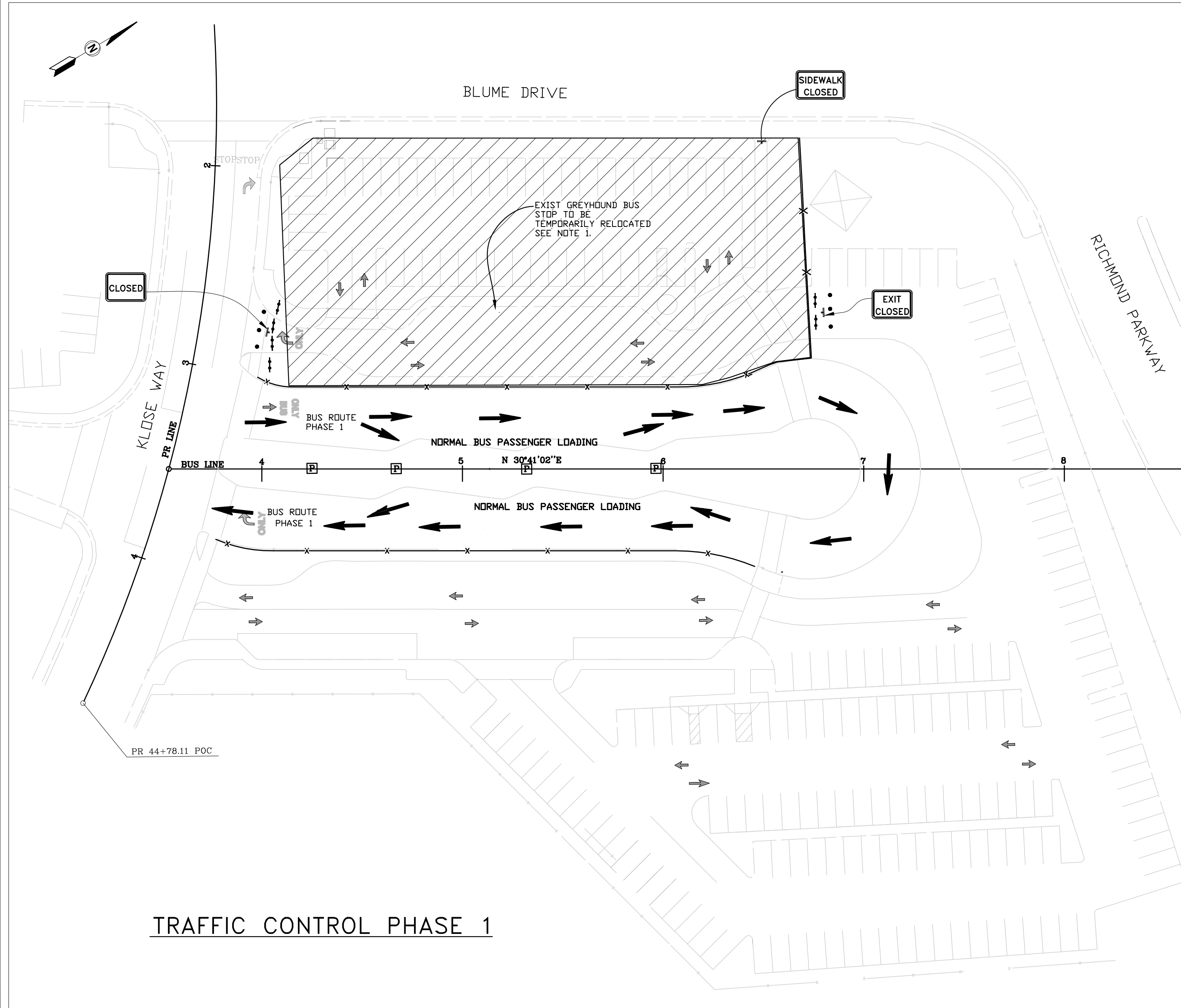
OWNER:  
**AC TRANSIT**  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

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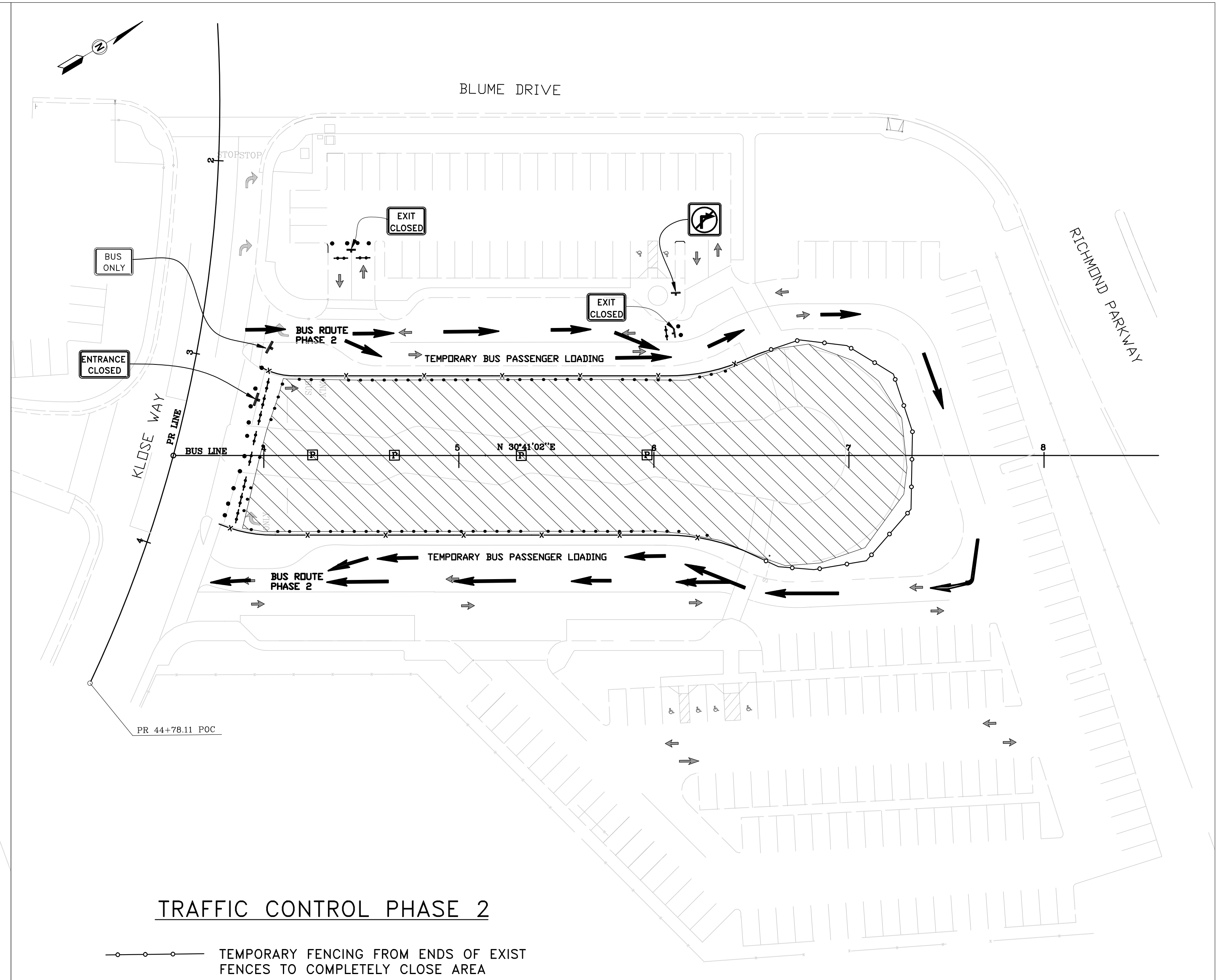
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| SHEET SIZE   | ARCH D   |
| DRAWN        | AZ       |
| CHECKED      | LK       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  | C-2      |
| SHEET NO.    | 3 of 16  |
| REVISION NO. | 0        |



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TRAFFIC CONTROL PHASE 1



TRAFFIC CONTROL PHASE 2

TEMPORARY FENCING FROM ENDS OF EXIST FENCES TO COMPLETELY CLOSE AREA

1 TRAFFIC CONTROL AND PHASING PLAN

Scale: NTS

LEGEND

- PHASE 1 WORK AREA
- PHASE 2 WORK AREA
- BUS DIRECTION OF TRAVEL
- TRAFFIC CONES
- SIGN
- BARRICADES
- (E) FENCE
- TEMPORARY FENCING

NOTES:

- NOT ALL PHASES OF CONSTRUCTION SHOWN. PHASES 1 AND 2 ARE MEANT TO SHOW THE TWO ACCEPTABLE BUS ROUTES TO MAINTAIN BUS SERVICE DURING CONSTRUCTION.
- CONTRACTOR TO SUBMIT A TRAFFIC CONTROL PLAN TO AC TRANSIT INCLUDING CONSTRUCTION PHASING. TRAFFIC CONTROL AND PHASING ASSOCIATED WITH WORK ON BLUME DRIVE SHALL BE PER THE CITY OF RICHMOND STANDARD SPECIFICATIONS.
- CONTRACTOR SHALL PROTECT OPEN TRENCHES AND EXCAVATIONS WITH WARNING SIGNS AND HIGH-VISIBILITY BARRICADES.
- ALL EXCAVATIONS IN THE VEHICULAR CIRCULATION PATHS SHALL BE COVERED WITH COVERS ADEQUATE FOR VEHICLE TRAFFIC (HS-20 LOADING), SUCH AS STEEL PLATES, WHEN NOT IN THE ACTIVE PHASE OF CONSTRUCTION.
- TEMPORARY LOCATION OF ALL BUS STOPS BY AC TRANSIT.
- PLACE TEMPORARY SIGNS AS INDICATED.



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DRAWING TITLE:  
TRAFFIC CONTROL AND PHASING PLAN  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS

OWNERS:  
AC TRANSIT  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

STAMP

DATE 12-2-19  
SCALE AS NOTED  
SHEET SIZE ARCH D  
DRAWN DW  
CHECKED LK  
JOB NO. 19R-101  
DRAWING NO.  
C-3  
SHEET NO. 4 of 16  
REVISION NO. 0






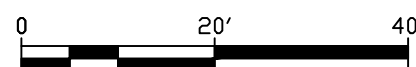
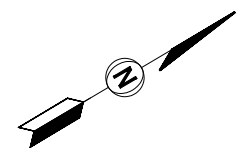


DEMOLITION NOTES:

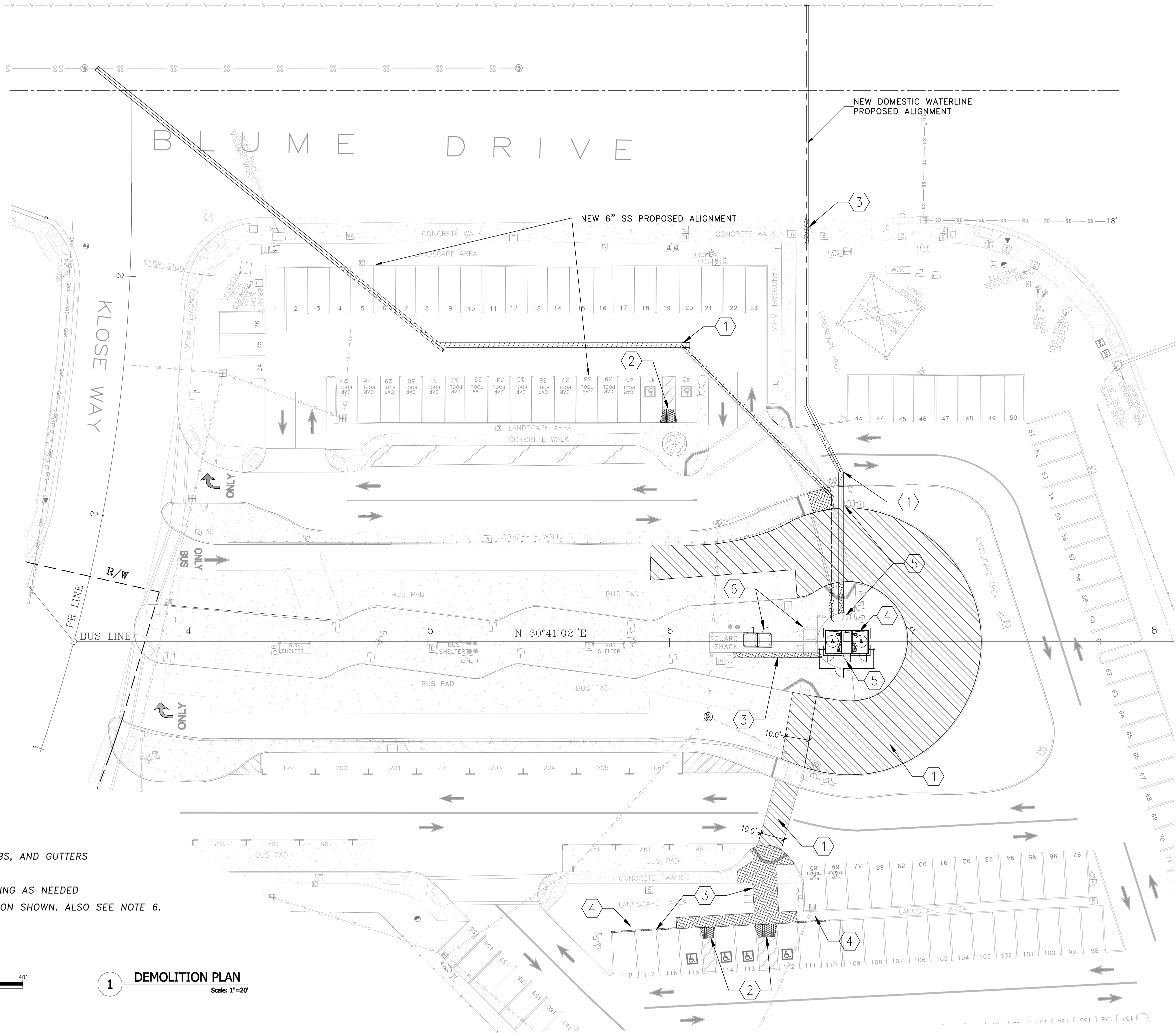
1. EXISTING UTILITIES TO REMAIN UNLESS NOTED OTHERWISE.
2. SAWCUT EXISTING PCC AND AC PAVING TO A NEAT, STRAIGHT LINE AS INDICATED ON PLAN.
3. SEE UTILITY PLAN DWG. C-6 FOR UTILITY TRENCH WIDTH AND DETAILS.
4. CONTRACTOR SHALL LOCATE EXISTING UTILITIES WITHIN THE LIMIT OF WORK AND EXCAVATIONS PRIOR TO START OF WORK AND PROTECT THOSE UTILITIES IN PLACE UNLESS SHOWN OTHERWISE ON THESE PLANS.
5. THE CONTRACTOR SHALL PROTECT THE EXISTING STORM DRAIN AND PUBLIC RIGHT OF WAY FROM EROSION AND SEDIMENT DURING CONSTRUCTION, INCLUDING EROSION AND SEDIMENT RESULTING FROM WIND AND WATER. CONTRACTOR SHALL USE SAND OR GRAVEL BAG BERMS AT ALL DRAIN INLETS IN THE PROJECT VICINITY.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE RELOCATION OF THE PORTA POTTY BY CALLING THE PORTA-POTTY COMPANY TO REMOVE THE EXISTING PORTA-POTTY AND ORDERING A NEW ONE.


DEMOLITION KEYNOTES:

- |   |   |
|---|---|
|  | ① REMOVE PAVEMENT   |
|  | ② REMOVE ASPHALT RAMP   |
|  | ③ REMOVE CONCRETE SIDEWALKS, RAMPS, CURBS, AND GUTTERS              |
|   | ④ CLEAR AND GRUB  |
|   | ⑤ RELOCATE IRRIGATION VALVE BOXES AND PIPING AS NEEDED              |
|   | ⑥ RELOCATE EXISTING PORTA-POTTY TO LOCATION SHOWN. ALSO SEE NOTE 6. |




# 1 DEMOLITION PLAN

[illegible]

 **CHOW ENGINEERING, INC.**  
7770 PARDEE LANE, SUITE 100  
OAKLAND, CA 94621  
Phone: (510) 636-8500 Fax: (510) 636-8544  
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**DRAWING TITLE:**  
DEMOLITION PLAN  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS

**OWNER:**  
 AC TRANSIT  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

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| STAMP        |          |
|              |          |
| DATE         | 12-2-19  |
| SCALE        | AS NOTED |
| SHEET SIZE   | ARCH D   |
| DRAWN        | AZ       |
| CHECKED      | LK       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  |          |
| C-4          |          |
| SHEET NO.    | 5 of 16  |
| REVISION NO. | 0        |



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| DATE         | 12-2-19  |
| SCALE        | AS NOTED |
| SHEET SIZE   | ARCH D   |
| DRAWN        | AZ       |
| CHECKED      | LK       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  | C-5      |
| SHEET NO.    | 6 of 16  |
| REVISION NO. | 0        |

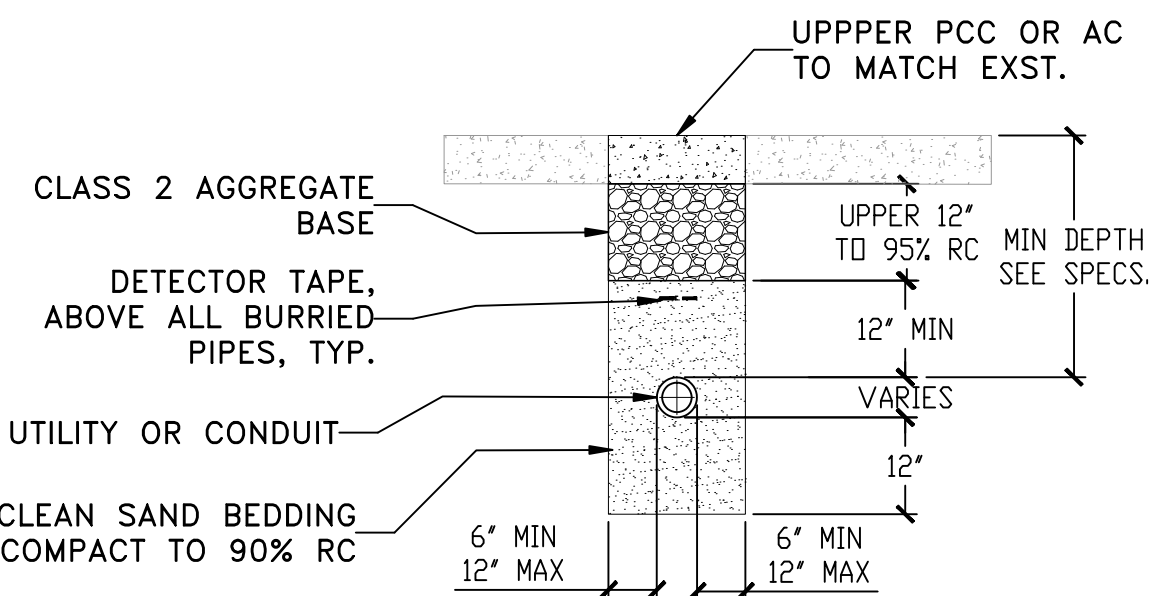


GENERAL NOTES:

1. EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CONTACT 'UNDERGROUND SERVICE ALERT' PHONE NO. 800-642-2444 FOR UTILITY MARKING SERVICES AT LEAST 48 HOURS IN ADVANCE OF COMMENCING WORK. FURTHERMORE, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES AND CONFORM TO THE REQUIREMENTS OF THE UTILITY AGENCIES REGARDING CONNECTIONS AND ABANDONMENT.
2. CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES OR CITY AGENCIES REGARDING PLACEMENT OF ALL SERVICES TO THE SITE.
3. THESE PLANS SHOW SOME OF THE DETAILS AND REQUIREMENTS BY THE VARIOUS UTILITY COMPANIES INVOLVED. THE CONTRACTOR SHALL INSTALL ALL REQUIRED COMPONENTS AND FOLLOW MATERIAL REQUIREMENTS IMPOSED BY THE UTILITY WHETHER OR NOT SHOWN ON THESE PLANS AND SPECIFICATIONS.

KEY NOTES:

- 1 NEW TIE-IN TO DOMESTIC WATERMAIN. SEE DRAWING SD1 FOR WATERMAIN TIE-IN DETAILS BY THE WATER UTILITY. LOCATE AND INSTALL METER AND BACKFLOW PREVENTER AS REQUIRED BY WATER UTILITY.
- 2 NEW TIE-IN TO SANITARY SEWER USING APPROPRIATE "T" FITTING. LOCATE AND INSTALL TWO-WAY CAST IRON CLEAN OUT, BACKFLOW PREVENTOR, AND OVERFLOW PROTECTION DEVICE IN VALVE BOX NEAR THE BUILDING AND AS REQUIRED BY WEST COUNTY SEWER DISTRICT. SEE DRAWING SD1 FOR SANITARY SEWER DETAILS.
- 3 NEW TIE-IN TO ELECTRIC POWER SOURCE IN GUARD SHACK. REFER TO DRAWING E1 FOR ELECTRIC PLAN AND DETAILS.
- 4 NEW TIE-IN TO COMMUNICATIONS LINE FROM GUARD SHACK TO RESTROOM UTILITY CHASE. REFER TO DRAWING E1 FOR DETAILS.
- 5 PROTECT OR RELOCATE IRRIGATION VALVE BOXES AND REROUTE IRRIGATION PIPING AS REQUIRED.



**\* TRENCH DETAIL**  
Scale: NTS

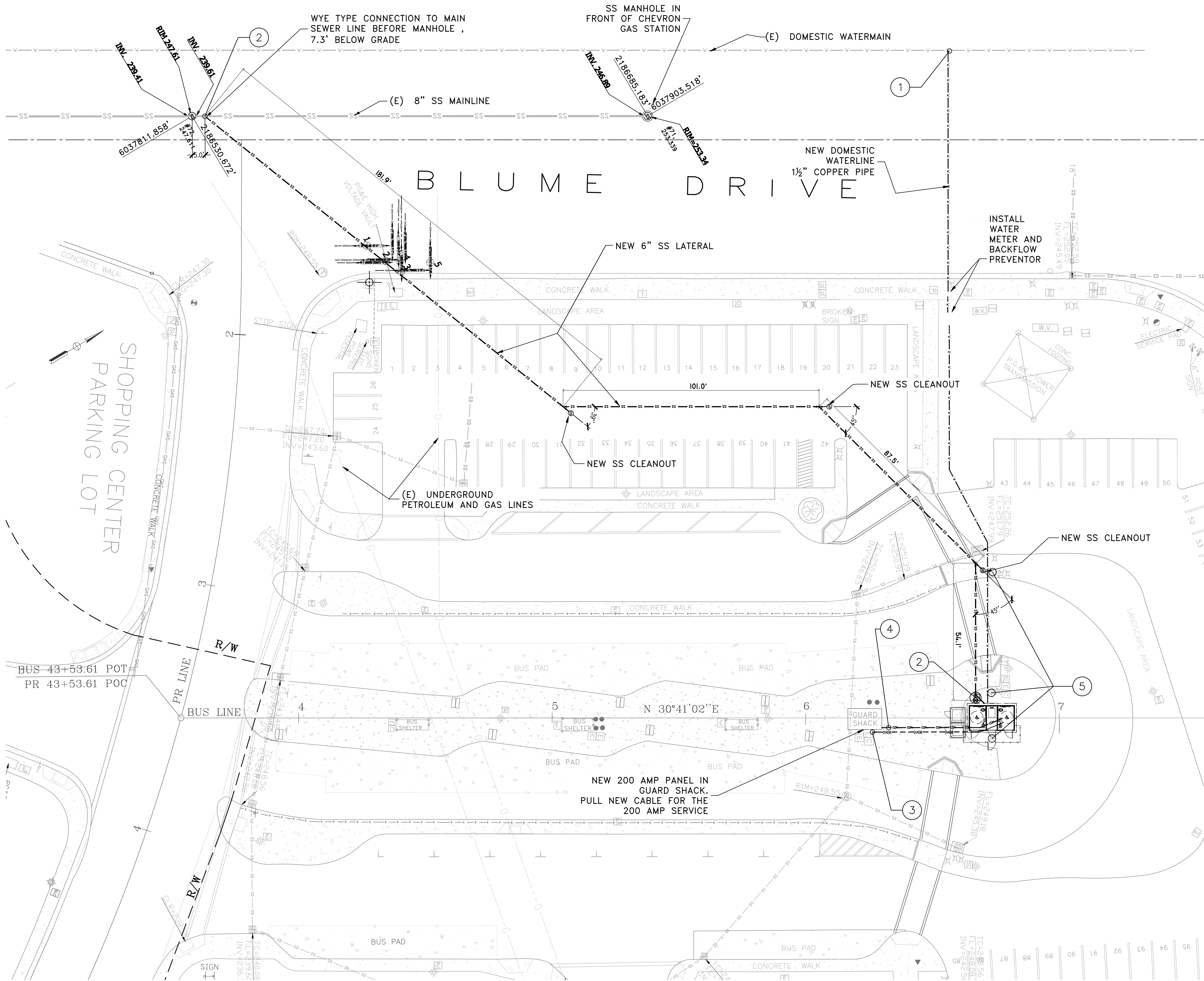
\* NOTE: FOR SEWER LATERAL SEE TRENCH SECTION DETAIL, STANDARD PLAN SS-10, ON DWG. SD-1.



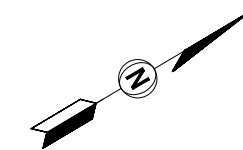
CONTACT USA NORTH 811,  
UNDERGROUND SERVICE  
ALERT 48 HOURS BEFORE  
YOU DIG  
811 or 800-642-2444  
www.usanorth811.org

IMPORTANT NOTICE

SECTION 4216/4217 OF THE GOVERNMENT  
CODE REQUIRES A DIGALERT IDENTIFICATION  
NUMBER BE ISSUED BEFORE A 'PERMIT TO  
EXCAVATE' WILL BE VALID. FOR YOUR  
DIGALERT I.D. NUMBER CALL UNDERGROUND  
SERVICE ALERT TOLL FREE 1-800-642-2444  
TWO WORKING DAYS BEFORE YOU DIG



**1 UTILITY PLAN**  
Scale: 1"=20'



| REVISIONS | BY | DATE |
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**CE** **CHOW ENGINEERING, INC.**  
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DRAWING TITLE:  
**UTILITY PLAN**  
**RICHMOND PARKWAY TRANSIT CENTER**  
**SITE IMPROVEMENTS**  
OWNER:  
**AC TRANSIT**  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

|              |          |
|--------------|----------|
| DATE         | 12-2-19  |
| SCALE        | AS NOTED |
| SHEET SIZE   | ARCH D   |
| DRAWN        | DW       |
| CHECKED      | LK       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  | C-6      |
| SHEET NO.    | 7 of 16  |
| REVISION NO. | 0        |



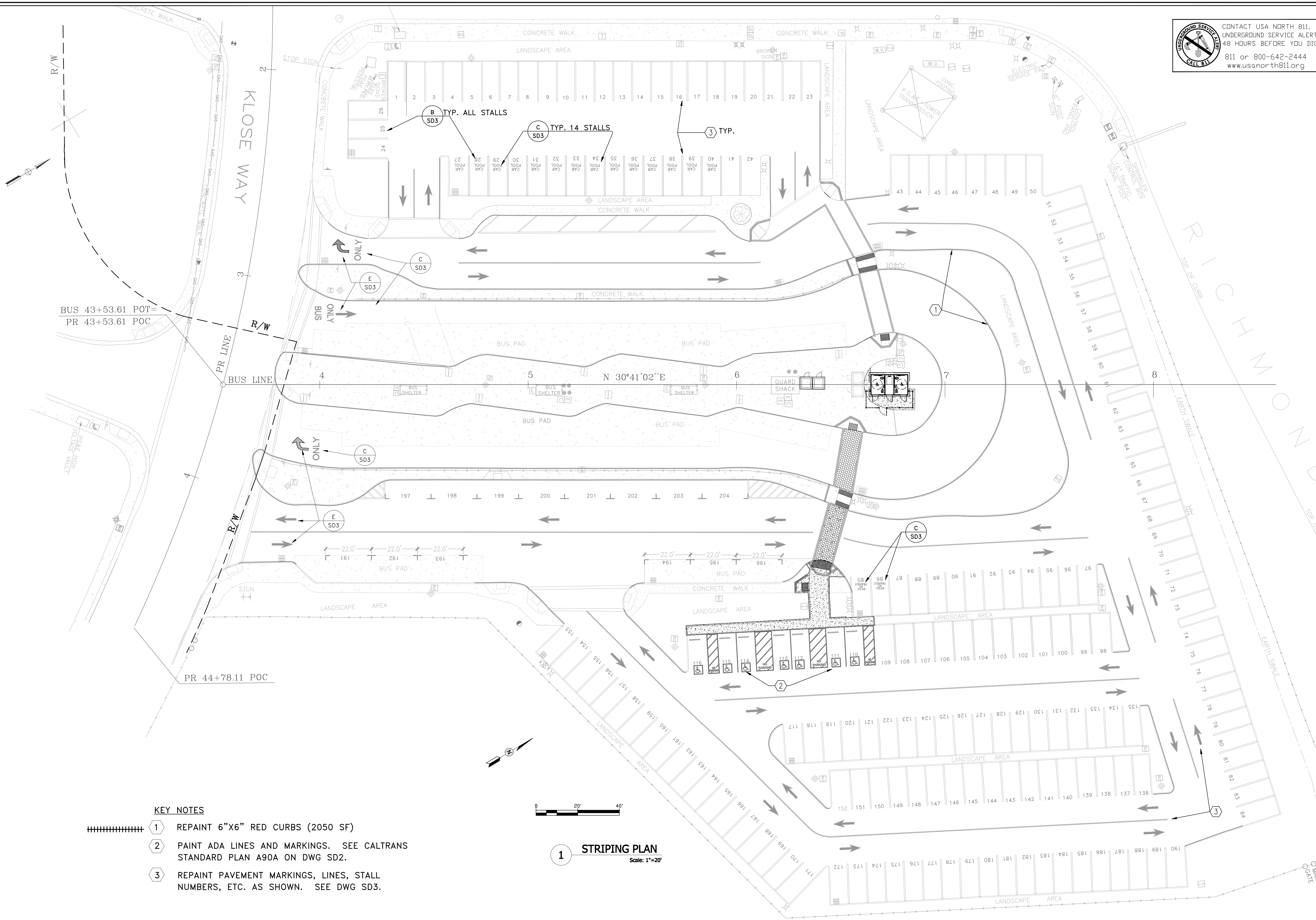








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CONTACT USA NORTH 811,  
UNDERGROUND SERVICE ALERT  
48 HOURS BEFORE YOU DIG  
811 or 800-642-2444  
www.usanorth811.org

| REVISIONS | BY | DATE |
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**CE** CHOW ENGINEERING, INC.  
7770 PARDEE LANE, SUITE 100  
OAKLAND, CA 94621  
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Web: www.choweng.com E-Mail: info@choweng.com

DRAWING TITLE: **STRIPING PLAN**  
**RICHMOND PARKWAY TRANSIT CENTER**  
**SITE IMPROVEMENTS**  
OWNER: **AC TRANSIT**  
1600 FRANKLIN ST.  
OAKLAND, CA 94612


|              |          |
|--------------|----------|
| DATE         | 12-2-19  |
| SCALE        | AS NOTED |
| SHEET SIZE   | ARCH D   |
| DRAWN        | AZ       |
| CHECKED      | LK       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  | C-9      |
| SHEET NO.    | 10 of 16 |
| REVISION NO. | 0        |





1. THE CONTRACTOR SHALL PREPARE THE BUILDING PAD PER DETAILS ON THIS SHEET. BOTTOM OF THE PRE-FAB SLAB BY THE PRE-FAB BUILDING MANUFACTURER IS DEAD FLAT. TOP OF FOOTING AND COMPACTED BACK FILL MUST BE DEAD LEVEL. POUR FOOTING WITH LASER TRANSIT TO VERIFY TOP OF FOOTING.
2. THE MINIMUM ALLOWABLE SOIL BEARING PRESSURE REQUIRED IS 1500 PSF. THE SUBGRADE TO BE COMPACTED TO 95% M.D.D.
3. THE CONTRACTOR SHALL SUPPLY AND STOCKPILE REQUIRED QUANTITY OF COARSE SAND WITHIN THE BUILDING PROXIMITY FOR USE AND PLACEMENT OF THE PREFABRICATED BUILDING. CONTRACTOR TO SET ELEVATION OF THE BASE. PAD ELEVATION MUST BE LEVEL WITHIN 2% AND COMPLY WITH ALL APPLICABLE CODES OF ACCESSIBILITY AND SAFETY. BEFORE BUILDING SET WET SAND FILL TO CONSOLIDATE AND /OR VIBRATE.
4. THE RESTROOM MANUFACTURER WILL FURNISH AND INSTALL UNDERGROUND UTILITIES UNDER THE BUILDING SLAB EXTENDING 6 FEET (MAX) BEYOND THE BUILDING LINE, MIN OF 24" - MAX OF 36" BELOW GRADE.
5. THE DIFFERENCE IN ELEVATION BETWEEN FINISH FLOOR OF THE RESTROOMS AND THE SIDEWALK OUTSIDE SHALL BE NO MORE THAN ¼". SIDEWALK TO SLOPE AWAY FROM BUILDING AT A MINIMUM SLOPE OF 1%.
6. DETAILS REGARDING THE ROUTING AND PLACEMENT OF UTILITIES WITHIN AND TROUGH THE FOUNDATION WILL BE FULLY PRE-DETERMINED PRIOR TO THE POURING OF THE CONCRETE BASE SUPPORT STRUCTURE/ FOUNDATION.
7. FOUNDATION DIMENSIONS ASSUME THE SPECIFIC PREMANUFACTURED BUILDING BY PRC AS SHOWN ON THESE PLANS. APPROVED EQUAL BUILDING FOUNDATION DIMENSIONS MAY VARY GREATLY.

[illegible]

 **CHOW ENGINEERING, INC.**  
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Web: [www.choweng.com](http://www.choweng.com) E-Mail: [info@choweng.com](mailto:info@choweng.com)

DRAWING TITLE:  
BLDG. FOUNDATION PLAN & DETAILS  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS

OWNER:  
AC TRANSIT  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

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|--------------|----------|
| STAMP        |          |
|              |          |
| DATE         | 12-5-19  |
| SCALE        | AS NOTED |
| SHEET SIZE   | ARCH D   |
| DRAWN        | DW       |
| CHECKED      | LK       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  |          |
| C-10         |          |
| SHEET NO.    | 11 of 16 |
| REVISION NO. | 0        |



PLAYGROUND SERIES



PROJECT REF#: Project No.-Date-Revision No.



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BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

PS-122  
RICHMOND, CA

REVISION #

REVISION .

DATE:

DRAWN BY:

-

PROJECT #:

START

DATE:

DRAWN BY:

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SHEET#

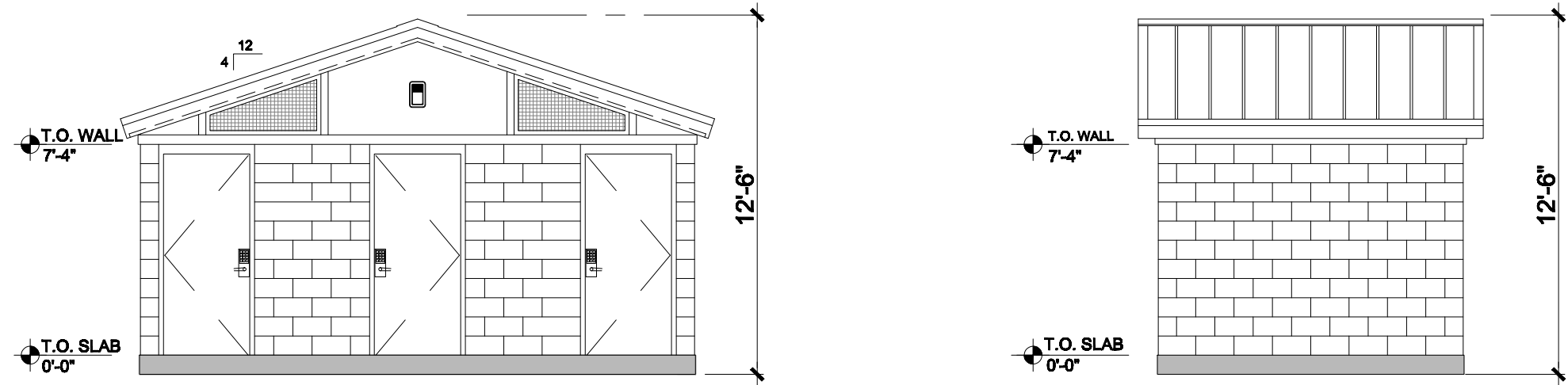
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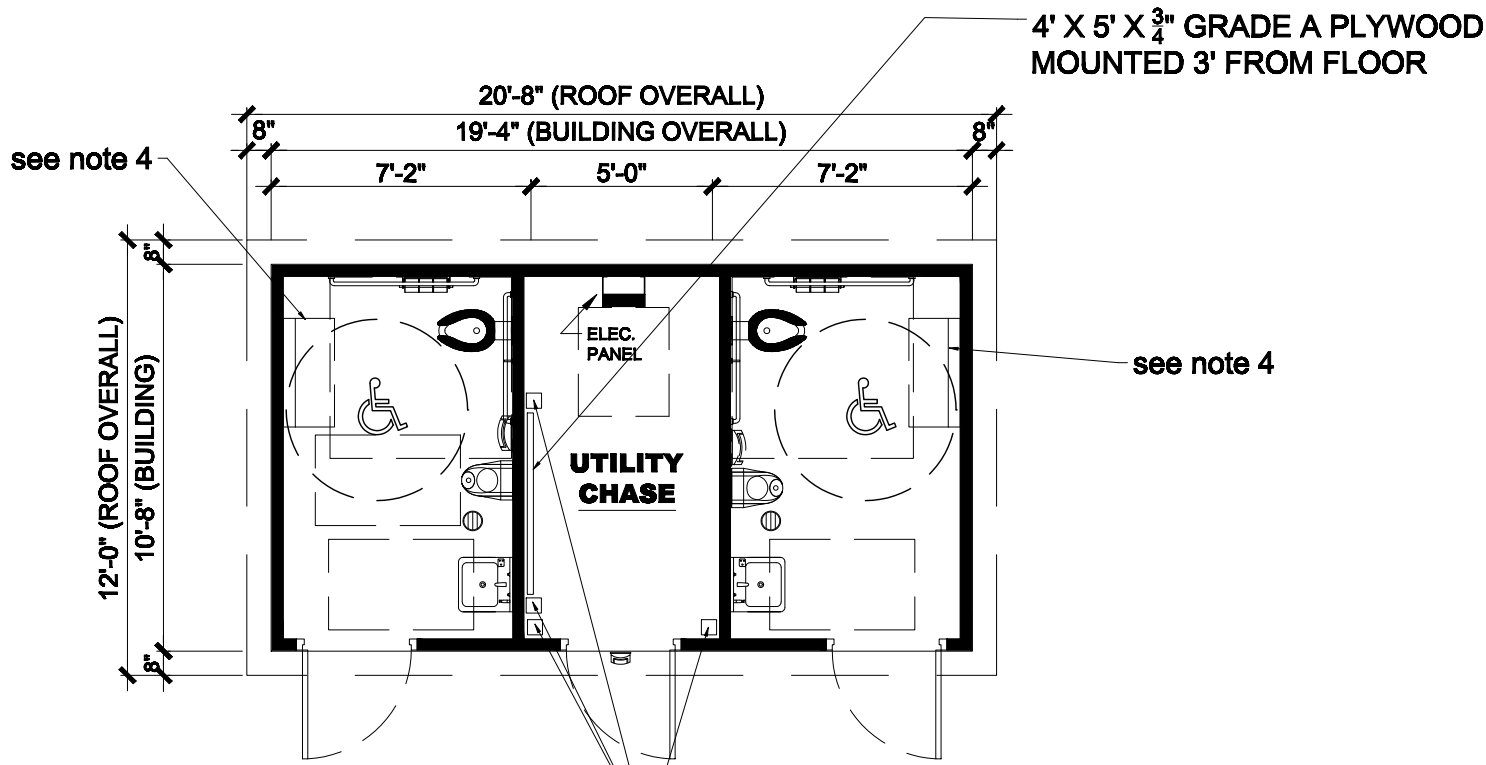
Ph: 888-888-2060 | Fax: 888-888-1448

-NOT FOR CONSTRUCTION - PRELIMINARY DESIGN DRAWING ONLY - DO NOT SCALE, DIMENSIONS PRESIDE

PLAYGROUND SERIES



PROJECT REF#: Project No.-Date-Revision No.



- PROVIDE ADDITIONAL ELECTRICAL RECEPTICLES:
1. TWO-PLUG 120V NEXT TO PLYWOOD PANEL
  2. (2) 240V FOR WATER HEATERS
  3. FOUR-PLUG 120V



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BUILDING TYPE:

RESTROOM BUILDING

PROJECT:

PS-122  
RICHMOND, CA

REVISION #

REVISION .

DATE:

DRAWN BY:

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PROJECT #:

START

DATE:

DRAWN BY:

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SHEET#

MAX. PERSON / HOUR:

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Ph: 888-888-2060 | Fax: 888-888-1448

-NOT FOR CONSTRUCTION - PRELIMINARY DESIGN DRAWING ONLY - DO NOT SCALE, DIMENSIONS PRESIDE

| PLUMBING FIXTURE SCHEDULE |   |                   |           |        |        |   |         |
|---------------------------|---|-------------------|-----------|--------|--------|---|---------|
| ITEM                      | FIXTURE                                 | ROUGH-IN SERVICES |           |        |        | MANUFACTURER/MODEL  | REMARKS |
|                           |   | COLD WATER        | HOT WATER | WASTE  | VENT   |   |         |
| 1                         | WATER CLOSET, FLOOR MOUNTED, ADA HEIGHT | 1"                | -         | 4"     | 2"     | ACORN PENAL-WARE, 1975-W-1-HET-1-FVBO-ADA-PFS. WALL HUNG TOILET, REAR DISCHARGE, WITH CONCEALED ANTI-MICROBIAL LEVER FLUSH VALVES. TOILET SEAT BACK SHALL BE BLACK SOLID CORE PLASTIC, NON-FLAMMABLE CONSTRUCTION WITH CONTINUOUS SS CONCEALED SELF-CHECKING HINGES | ADA     |
| 2                         | WATER CLOSET FLUSH VALVE                |                   |           |        |        | ZURN Z6143 AV-HET-BG-7L   |         |
| 3                         | URINAL, ADA HEIGHT                      | 3/4"              | -         | 2"     | 2"     | ACORN PENAL-WARE 1709HEU-W-1-0.125-FVBO   | ADA     |
| 4                         | URINAL FLUSH VALVE                      |                   |           |        |        | ZURN Z-6195AV-ULF-BG-7L   |         |
| 5                         | LAVATORIES                              | 1/2"              | 1/2"      | 1-1/2" | 1 1/2" | ACORN PENAL-WARE 1652LRB-1-DMS-03-M, 18" SINK   | ADA     |
| 7                         | SOAP DISPENSERS                         | -                 | -         | -      | -      | VANDAL RESISTANT ASI#353 THROUGH THE WALL DISPENSOR WITH A BEHIND THE WALL SS TANK LOCATED INSIDE THE UTILITY CHASE FOR MAINTENANCE   |         |
| 8                         | GRAB BARS                               | -                 | -         | -      | -      | SS GRAB BARS, 1-1/4" MIN. EXPOSED FASTENER VANDAL RESISTANT DESIGN  | ADA     |
| 9                         | TOILET PAPER HOLDER                     | -                 | -         | -      | -      | COVERED THREE-ROLL, 18 GA STAINLESS STEEL, ATTACHED WITH 4 EPOXY BEDDED VANDAL RESISTANT SS SCREWS  |         |
| 10                        | HAND DRYER                              | -                 | -         | -      | -      | DYSON V-BLADE OR EQUAL  |         |

| FINISH SCHEDULE |                        |   |      |       |       |  |
|-----------------|------------------------|---|------|-------|-------|--|
| AREA            | FLOOR                  | WALL  |      |       |       | OTHER  |
|                 |                        | EAST  | WEST | NORTH | SOUTH |  |
| EXTERIOR        | CONCRETE, BROOM FINISH | STUCCO, COATED WITH 2-4 MIL LAYERS OF 7-DAY CURING BLOCK FILLERS AND PAINTED WITH 2 LAYERS OF INDUSTRIAL HIGH SOLIDS, GLOSS ENAMAL TO 4 MIL THICKNESS. COLOR GRAY: DOVER GRAY PPG1001-5 |      |       |       |  |
| GABLE ENDS      |                        | FIBER-CEMENT STUCCO IN PATTERN, PAINTED WITH INDUSTRIAL ENAMAL. COLOR: PPG DOVER GRAY PPG1001-5   |      |       |       |  |
| TRIM            |                        |   |      |       |       | COLOR: NAPOLEON PPG1013-7  |
| ROOF            |                        |   |      |       |       | 5/8" OSB SHEATHING, ICE/WATER SHIELD MEMBRANE, 26 GA STANDING SEAM METAL ROOF PANELS. COLOR RED: PPG1189-7 |
| INTERIOR        |                        | SMOOTHED TO PEBBLE GRAIN FINISH, 2-4 MIL OF 7-DAY BLOCK FILLERS AND PAINTED WITH 2 LAYERS OF 4 MIL INDUSTRIAL HIGH SOLIDS INDUSTRIAL GRADE ENAMAL, WHITE.                               |      |       |       |  |

| DOOR SCHEDULE |                 |  |   |
|---------------|-----------------|--|---|
| SYMBOL        | SIZE            | DESCRIPTION  | REMARKS   |
| 1             | 3'-0" X 7'-0" h | SINGLE EXTERIOR, 14 GA STEEL, REINFORCED WITH 14 GA STEEL RIBS AT 6", REINFORCED WITH A WELDED PLATE FOR DOOR CLOSER MOUNTING. 1/4" THICK SS "Z-SHAPED" ANTI-MICROBIAL PULL HANDLES AND SCHLAGE B-600 SERIES COMMERCIAL SERIES DEAD BOLTS. | CARD READER BOX SHALL BE PLACED NEXT TO EACH DOOR, ADJACENT TO LOCKSETS. PROVIDE 1"-IN-WALL CONDUIT FROM EACH CARD READER BOX TO PLYWOOD PANEL IN UTILITY CHASE. A SECOND 1" CONDUIT SHALL BE PROVIDED FROM THE CONDUCTIVE HINGE AT EACH DOOR TO THE WOOD PANEL IN THE UTILITY CHASE. |

| PLUMBING EQUIPMENT SCHEDULE |                                  |                   |           |       |      |   |                      |
|-----------------------------|----------------------------------|-------------------|-----------|-------|------|---|----------------------|
| ITEM                        | FIXTURE                          | ROUGH-IN SERVICES |           |       |      | MANUFACTURER/MODEL  | REMARKS              |
|                             |                                  | COLD WATER        | HOT WATER | WASTE | VENT |   |                      |
| 1                           | ELECTRIC WATER HEATER            | 1/2"              | 1/2"      |       |      | STIEBEL DHC-3-2, TANKLESS   |                      |
| 2                           | WATER PRESSURE GAUGE/VALVE COMBO |                   |           |       |      | COMMERCIAL GRADE INDUSTRIAL WATER PRESSURE GAUGE, ISOLATION BALL VALVE, 150 PSI PRESSURE REGULATOR WITH WYE STRAINER, CHECK VALVE AND KEYSTONE SR 40 240 WATER FILTER |                      |
| 3                           | FLOOR DRAIN                      | -                 | -         | -     | -    |   |                      |
| 5                           | HOSE BIB - INTERIOR              | 1/2"              | -         | -     | -    |   | INSIDE UTILITY CHASE |

NOTES:

1. THE RESTROOM MANUFACTURER WILL PROVIDE COMPLETE ARCHITECTURAL PLANS AND ENGINEERING CALCULATIONS, STAMPED BY CA REGISTERED DESIGN PROFESSIONALS FOR THE CONTRACTOR TO FILE FOR REQUIRED BUILDING PERMIT.
2. THE DOORS OF THE RESTROOM AND UTILITY CHASE ROOM SHALL BE "CARD-READER ACTIVATED" USING THE DISTRICTS MOST RECENT DOOR SECURITY SYSTEM PER THE AC TRANSIT IT DEPARTMENT. THE RESTROOM STRUCTURE AND THE THREE DOOR FRAMES SHALL BE FITTED WITH CONDUITS, WIRING, AND EQUIPMENT TO CONNECT TO A PANEL IN THE UTILITY CHASE FOR POWER AND CONNECTION TO THE AC TRANSIT COMMUNICATIONS SERVICE. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. FOR ADDITIONAL INFORMATION ABOUT FURNISHING AND INSTALLING THE PRE-MANUFACTURED RESTROOM BUILDING, SEE SPECIFICATION SECTION 13-42-13.
4. CONTRACTOR TO ADD A 2-DOOR, LOCKABLE METAL CABINET, APPROXIMATELY 2'X3' AND 4' HIGH IN EACH RESTROOM.

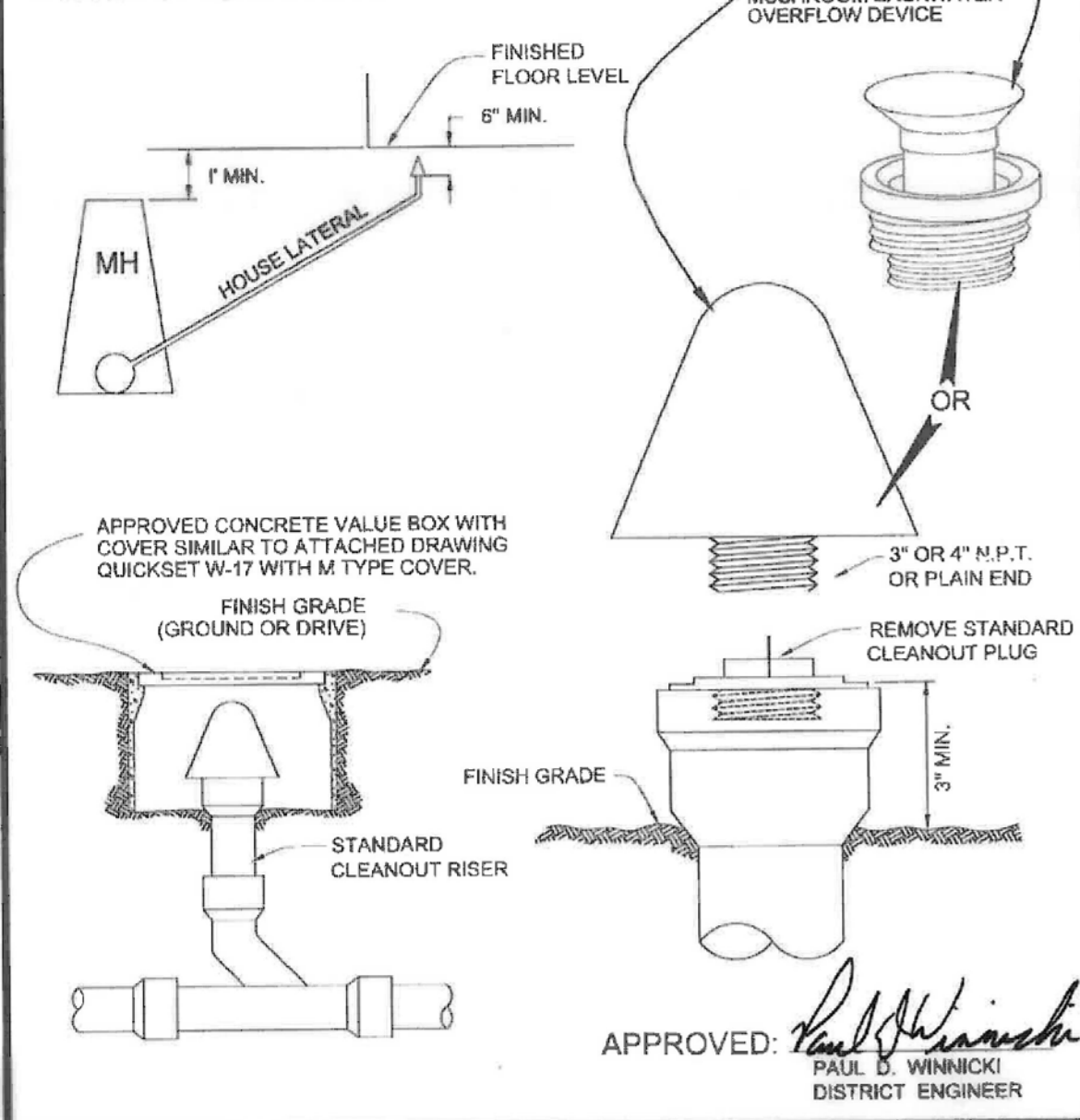
CHOW ENGINEERING, INC.  
7770 PARDEE LANE, SUITE 100  
OAKLAND, CA 94621  
Phone: (510) 636-8500 Fax: (510) 636-8544  
Web: www.choweng.com E-Mail: info@choweng.com

DRAWING TITLE: BLDG. FLOOR PLAN, ELEV & SCHED'S  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS  
OWNER: AC TRANSIT  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

DATE 12-2-19  
SCALE AS NOTED  
SHEET SIZE ARCH D  
DRAWN DW  
CHECKED LK  
JOB NO. 19R-101  
DRAWING NO.  
C-11  
SHEET NO. 12 of 16  
REVISION NO. 0

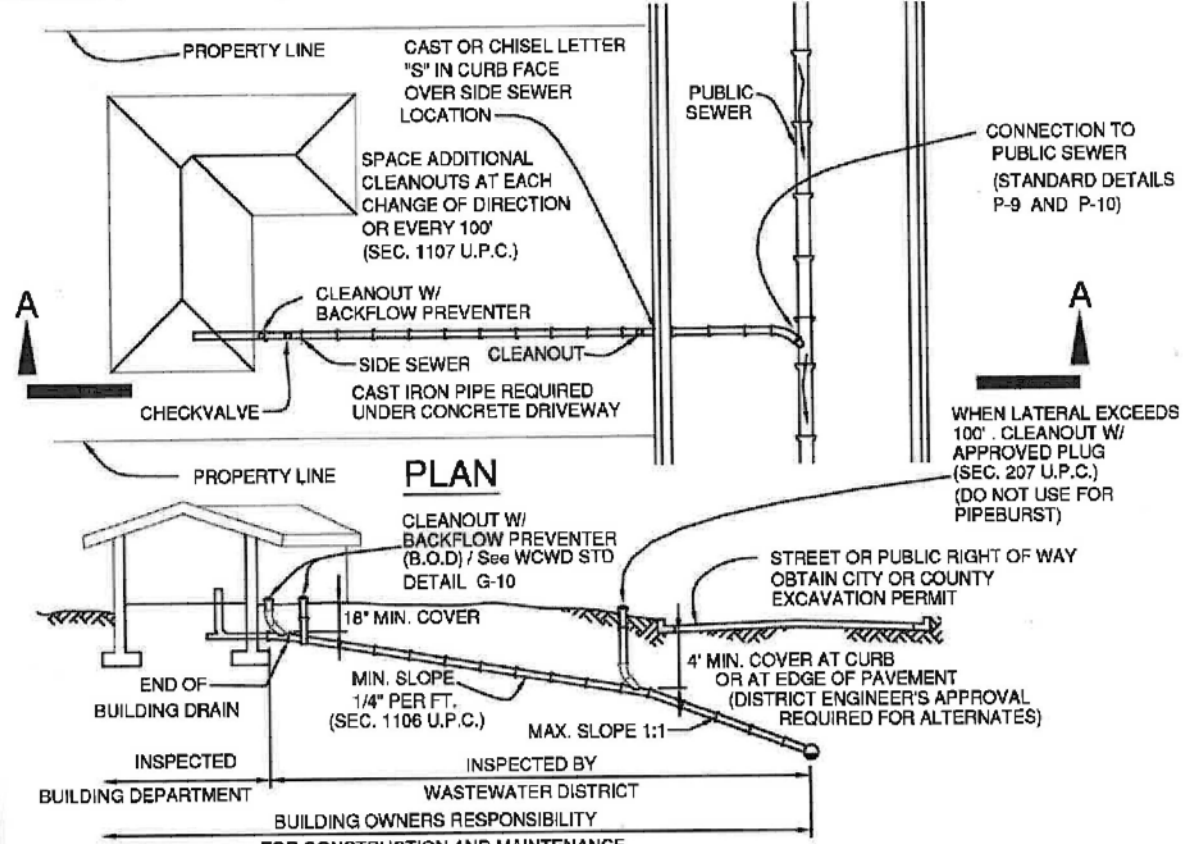


# SEWER CLEANOUT & BACKFLOW PREVENTER REQUIRED FOR ALL CONSTRUCTION



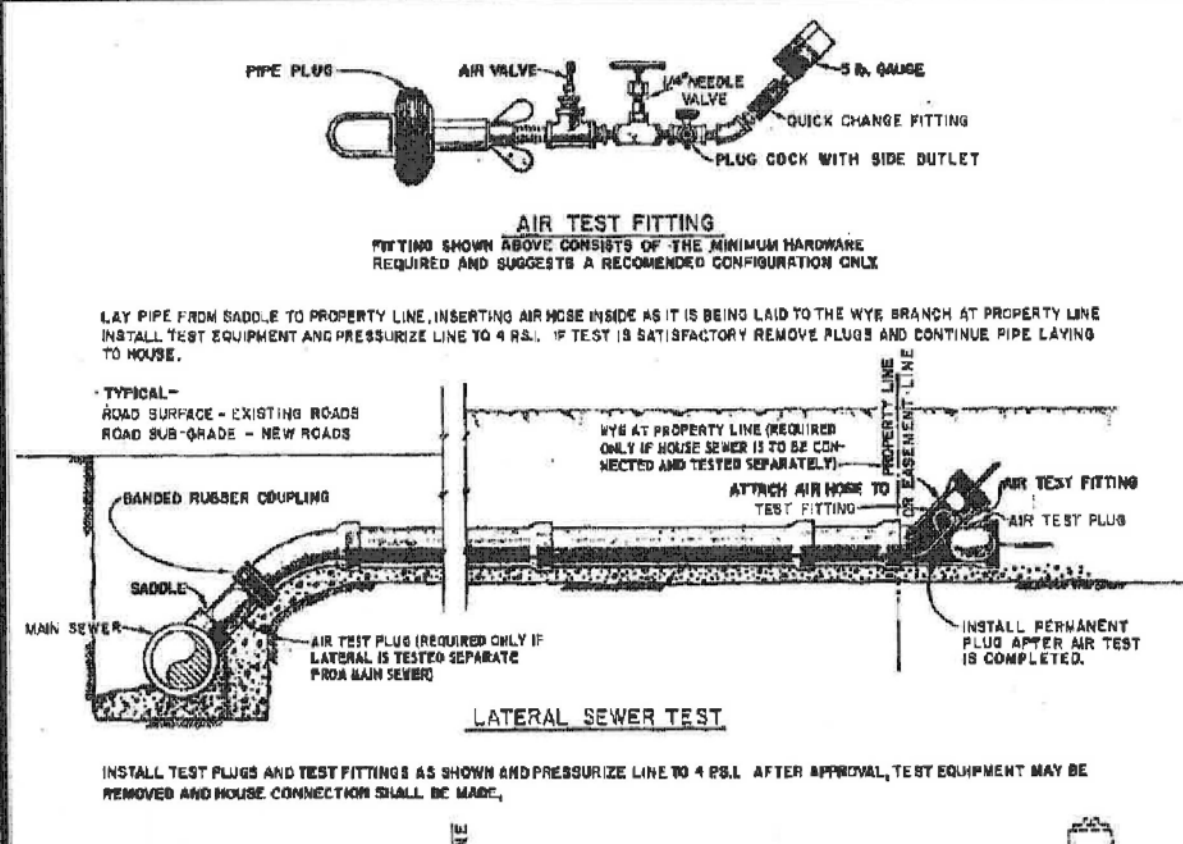
APPROVED: *Paul D. Winnicki*  
PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
BACKWATER OVERFLOW DEVICE  
STANDARD  
DETAIL No. G-2D



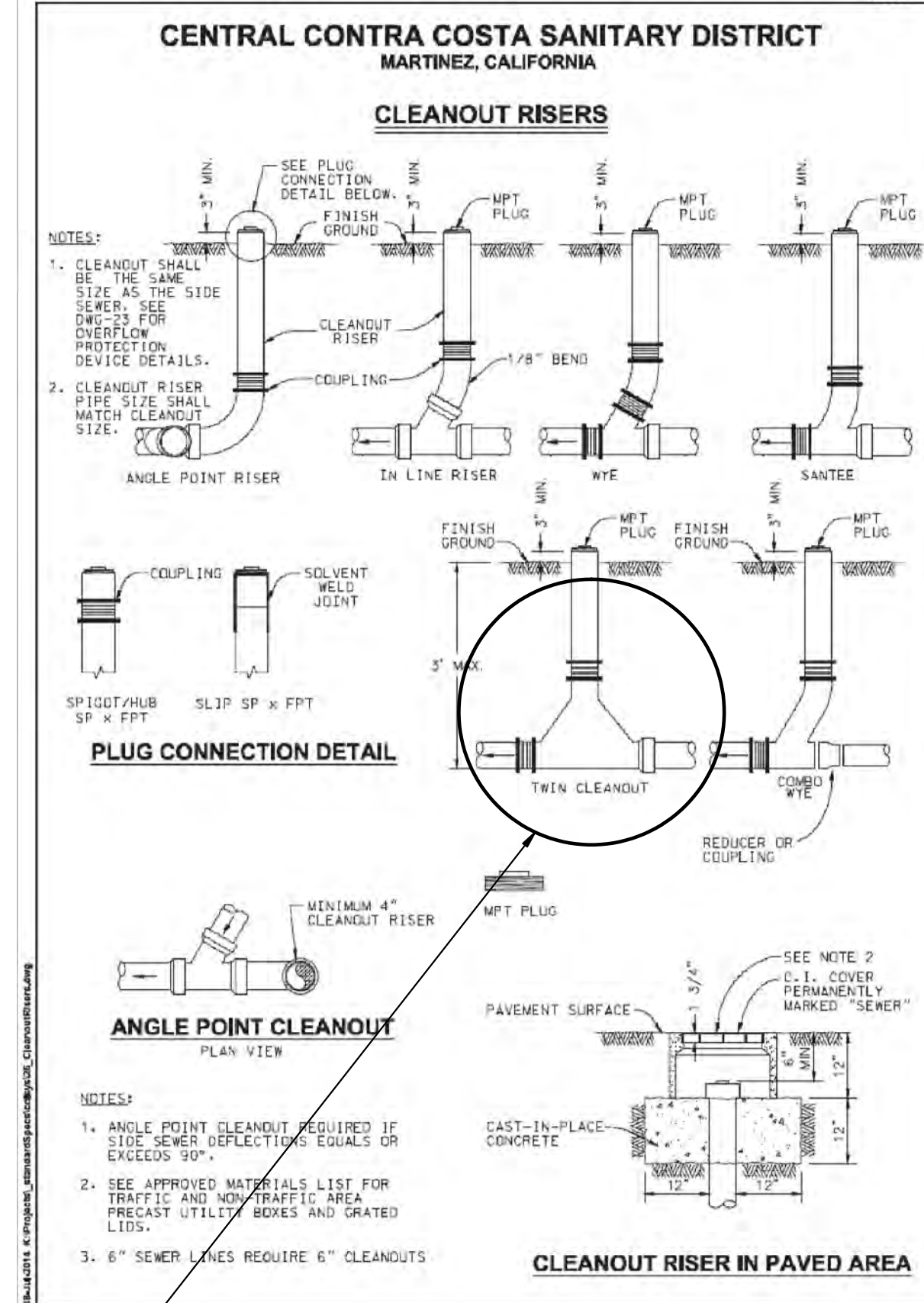
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PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
SIDE SEWERS  
STANDARD  
DETAIL G-5



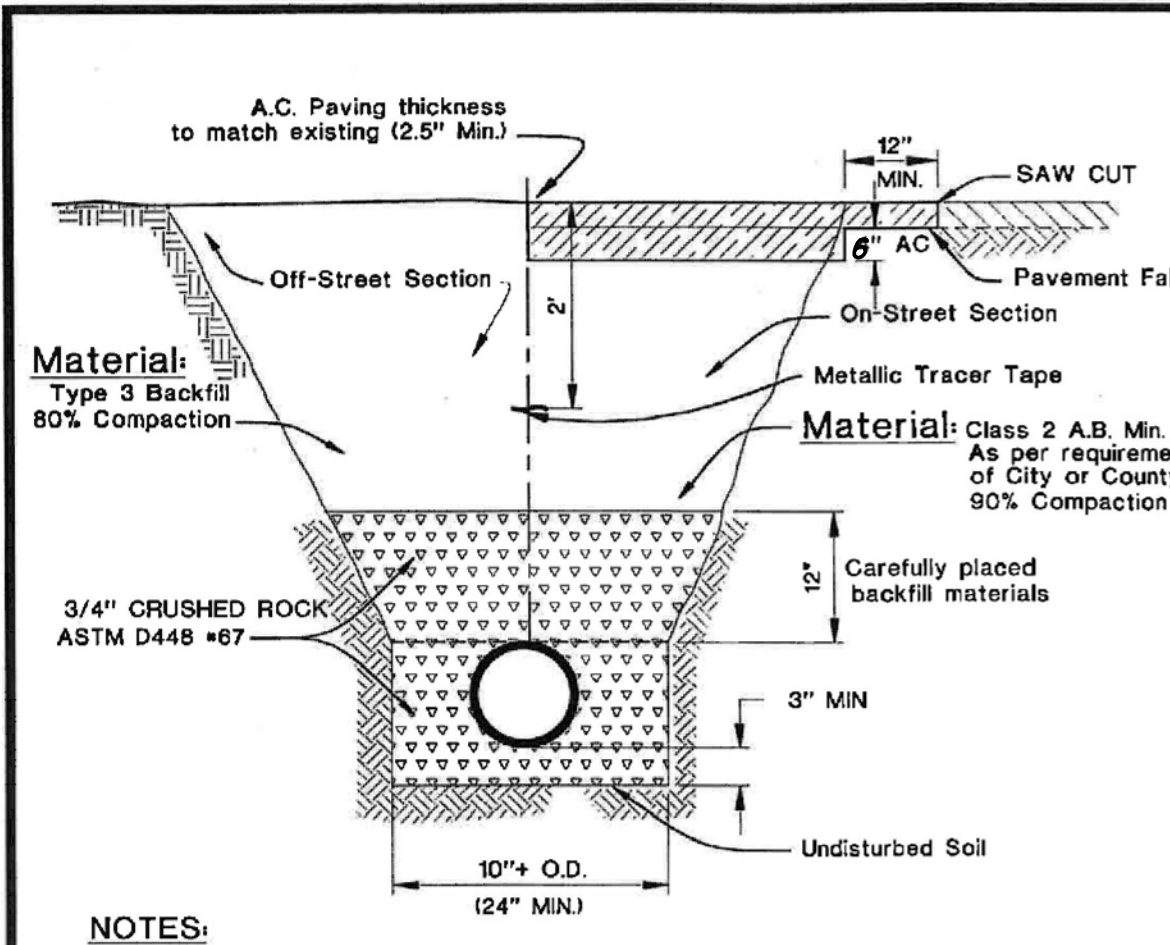
APPROVED: *Paul D. Winnicki*  
PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
SIDE SEWER AIR TEST  
STANDARD  
DETAIL G-8b



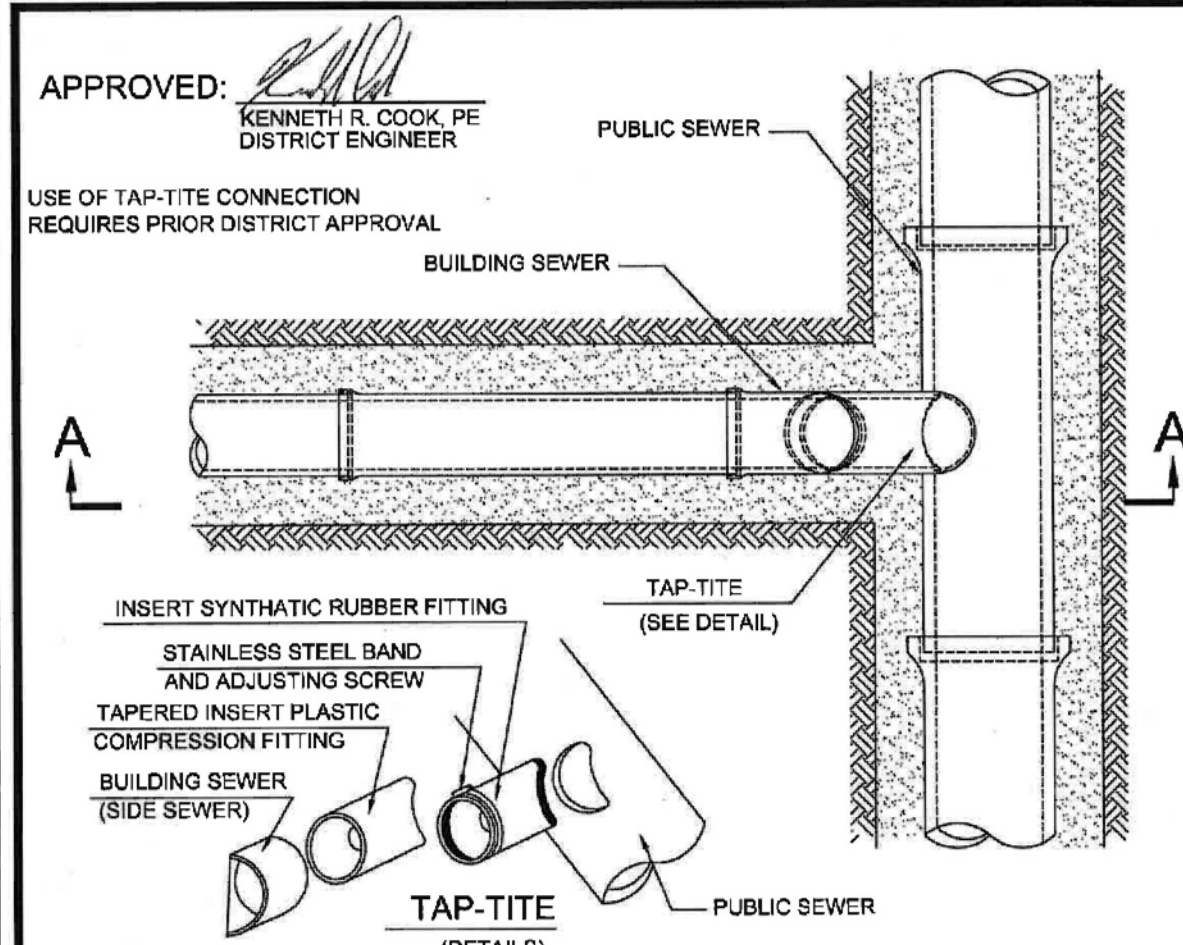
APPROVED: *Paul D. Winnicki*  
PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
SIDE SEWER AIR TEST  
STANDARD  
DETAIL G-8b



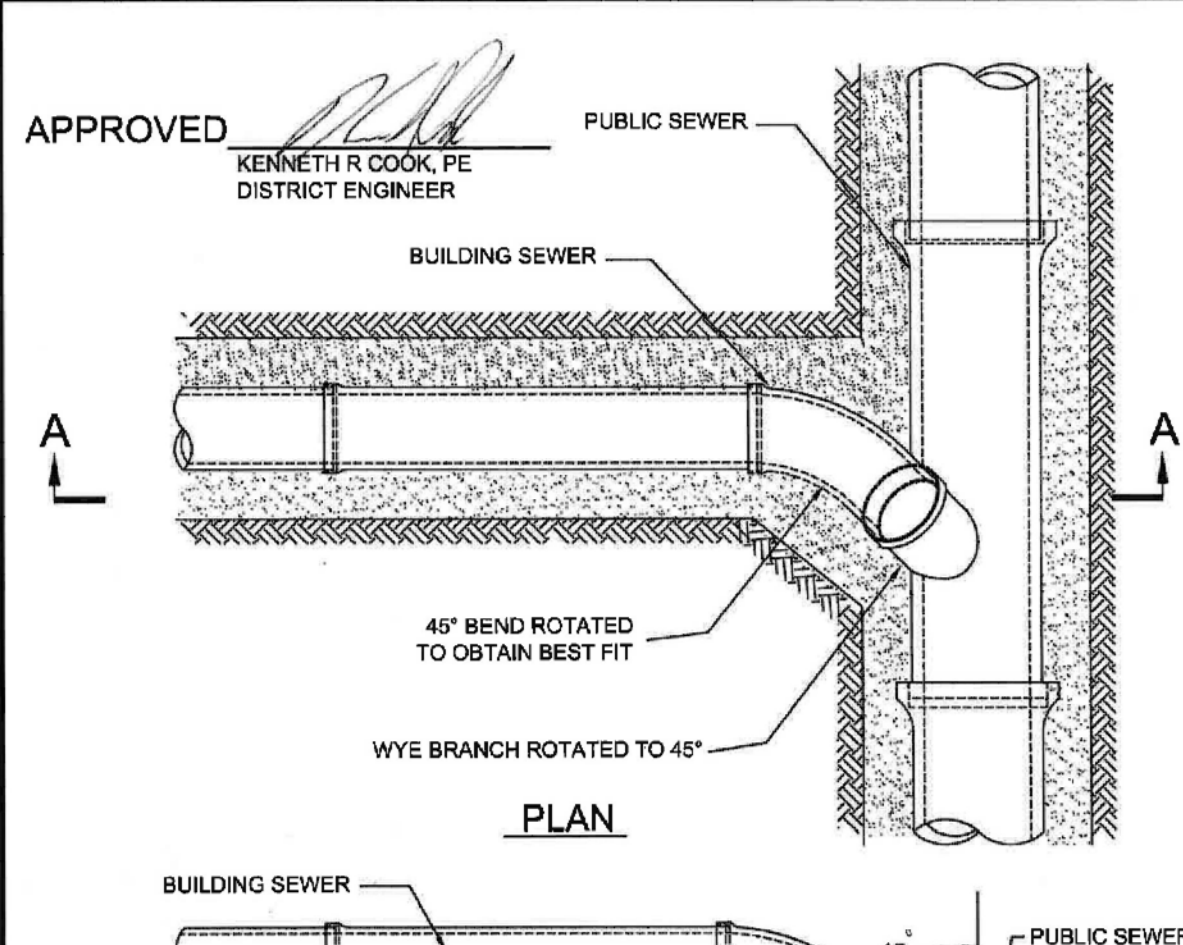
APPROVED: *Paul D. Winnicki*  
PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
TRENCH & BACKFILL DETAIL  
STANDARD  
DETAIL P-1



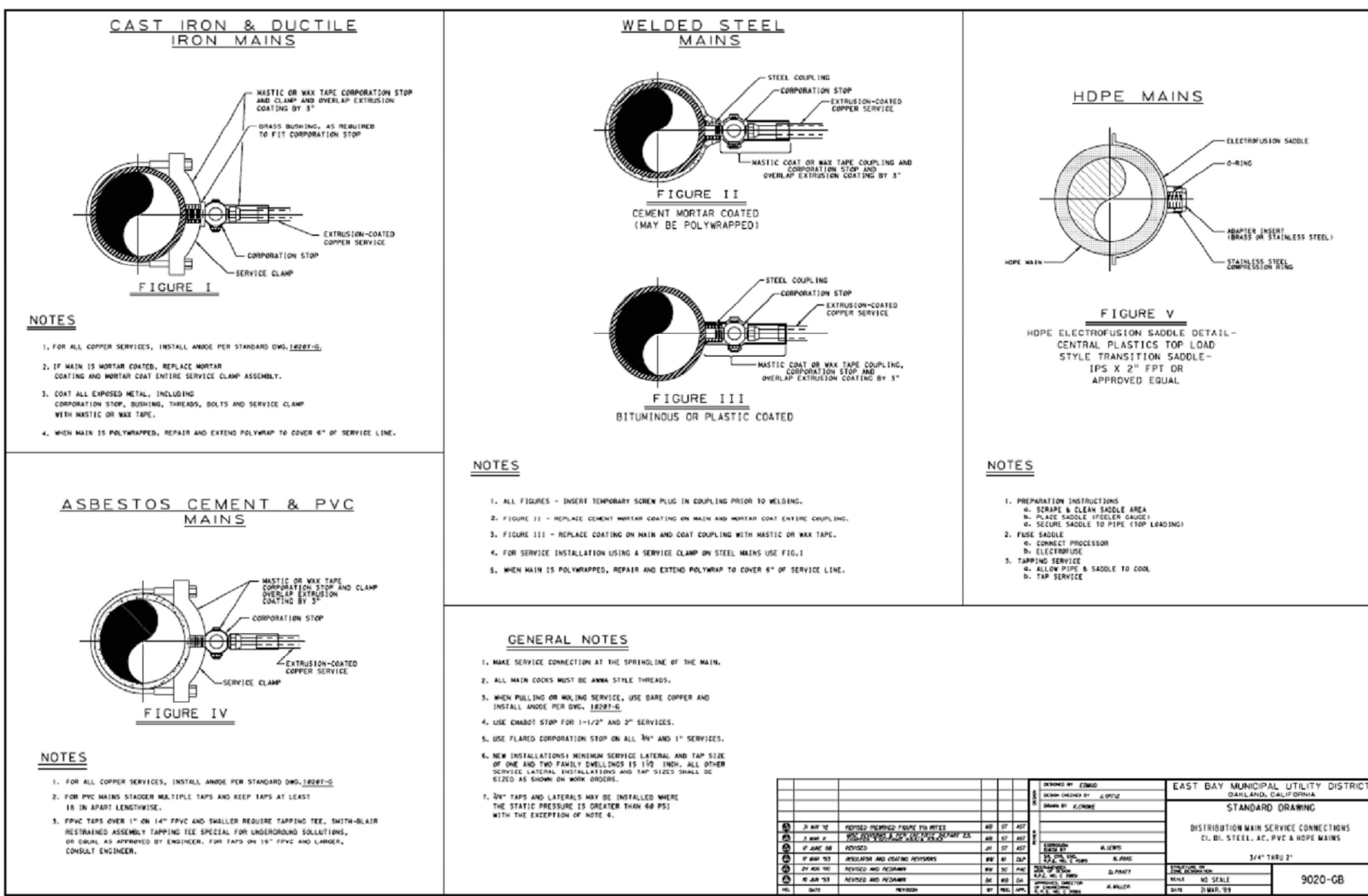
APPROVED: *Paul D. Winnicki*  
PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
TAP-TITE CONNECTION  
BLDG. SEWER TO PUBLIC SEWER  
STANDARD  
DETAIL No. P-9



APPROVED: *Paul D. Winnicki*  
PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
WYE CONNECTION  
BLDG. SEWER TO PUBLIC SEWER  
STANDARD  
DETAIL No. P-10



APPROVED: *Paul D. Winnicki*  
PAUL D. WINNICKI  
DISTRICT ENGINEER

WEST COUNTY WASTEWATER DISTRICT  
WYE CONNECTION  
BLDG. SEWER TO PUBLIC SEWER  
STANDARD  
DETAIL No. P-10

## SANITARY SEWER NOTES:

1. COMPLY WITH WEST COUNTY WASTEWATER DISTRICT'S STANDARD DETAILS.
2. LATERAL SEWER LINE FROM BUILDING TO SEWER MAIN SHALL BE 6-IN C-900 DR18 PIPE WITH RING-TITE JOINTS. USE A NO HUB TWIN (WITHOUT BAFFLE) CAST IRON CLEANOUT. CONNECTIONS TO THE CLEANOUT SHALL BE MADE USING FERNCO SERIES 3000 ADAPTOR COUPLINGS WITH STAINLESS STEEL SHEAR BANDS AND (4) CLAMPS PER COUPLING.
3. ONLY TAPS TO A PVC SEWER MAIN MAY BE DONE BY GENERAL ENGINEERING "A" CONTRACTOR LICENSED WITH THE CITY OF RICHMOND. TAPS TO NON-PVC MAINS ARE TO BE DONE BY THE TAP-TITE COMPANY OR ROTOR ROOTER.

## DOMESTIC WATER NOTES:

1. COMPLY WITH EBMUD STANDARD DRAWINGS AND UTILITY REQUIREMENTS.
2. LATERAL WATER LINE FROM BUILDING TO WATER MAIN SHALL BE 1/2 IN COPPER PIPE.

DATE  
BY  
REVISIONS

CHOW ENGINEERING, INC.  
7770 PARDEE LANE, SUITE 100  
OAKLAND, CA 94621  
Phone: (510) 636-8500 Fax: (510) 636-8544  
Web: www.choweng.com E-Mail: info@choweng.com

DRAWING TITLE:  
STANDARD UTILITY DETAILS  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS  
OWNER:  
AC TRANSIT  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

DATE  
SCALE  
SHEET SIZE  
DRAWN  
CHECKED  
JOB NO.  
DRAWING NO.

DATE 12-2-19  
SCALE AS NOTED  
SHEET SIZE ARCH D  
DRAWN DW  
CHECKED LK  
JOB NO. 19R-101  
DRAWING NO. SD1  
SHEET NO. 13 of 16  
REVISION NO. 0



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SD2

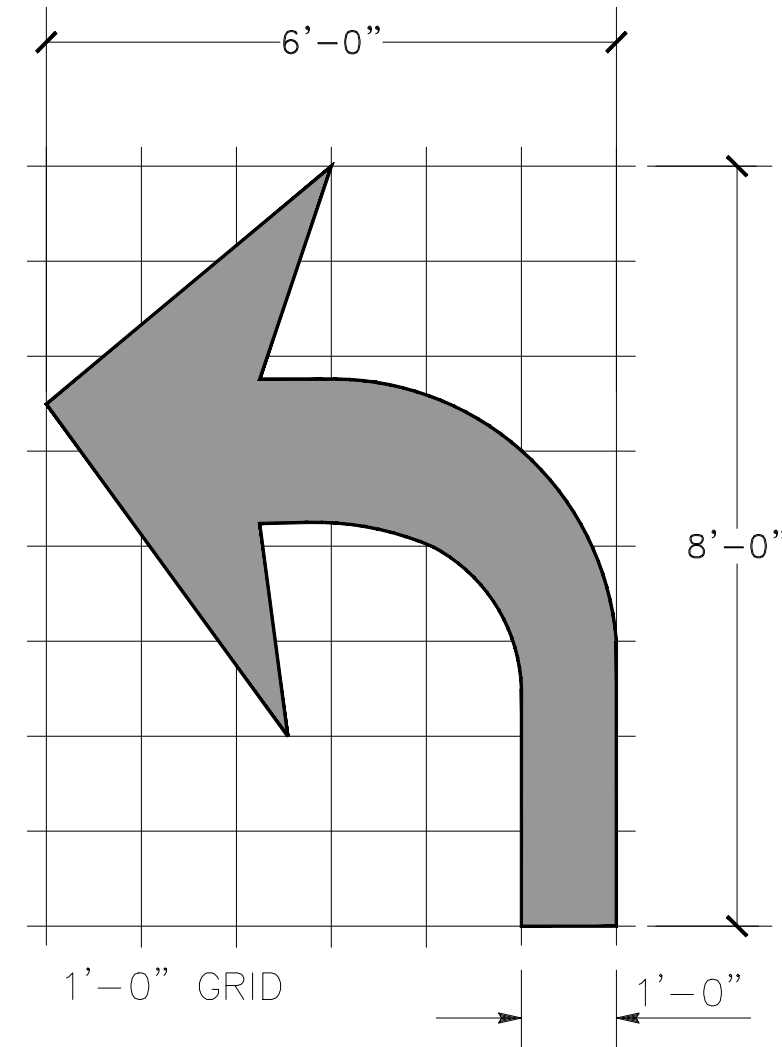
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SHEET NO. 14 of 16

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REVISION NO. 0

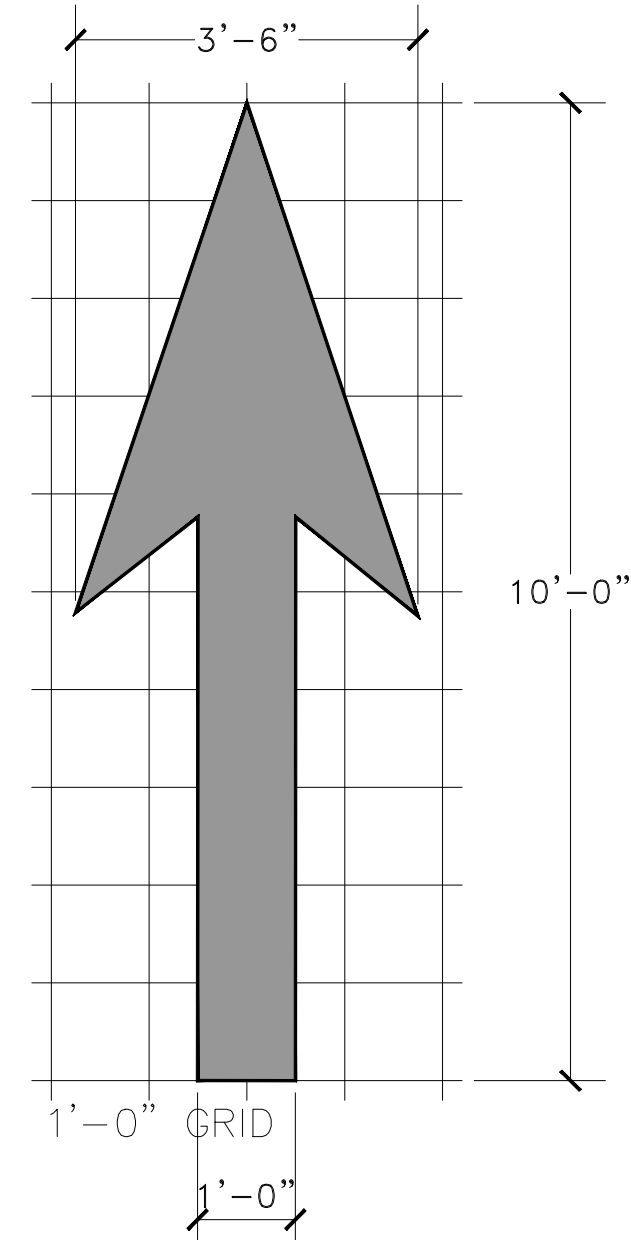




A=15 sq ft

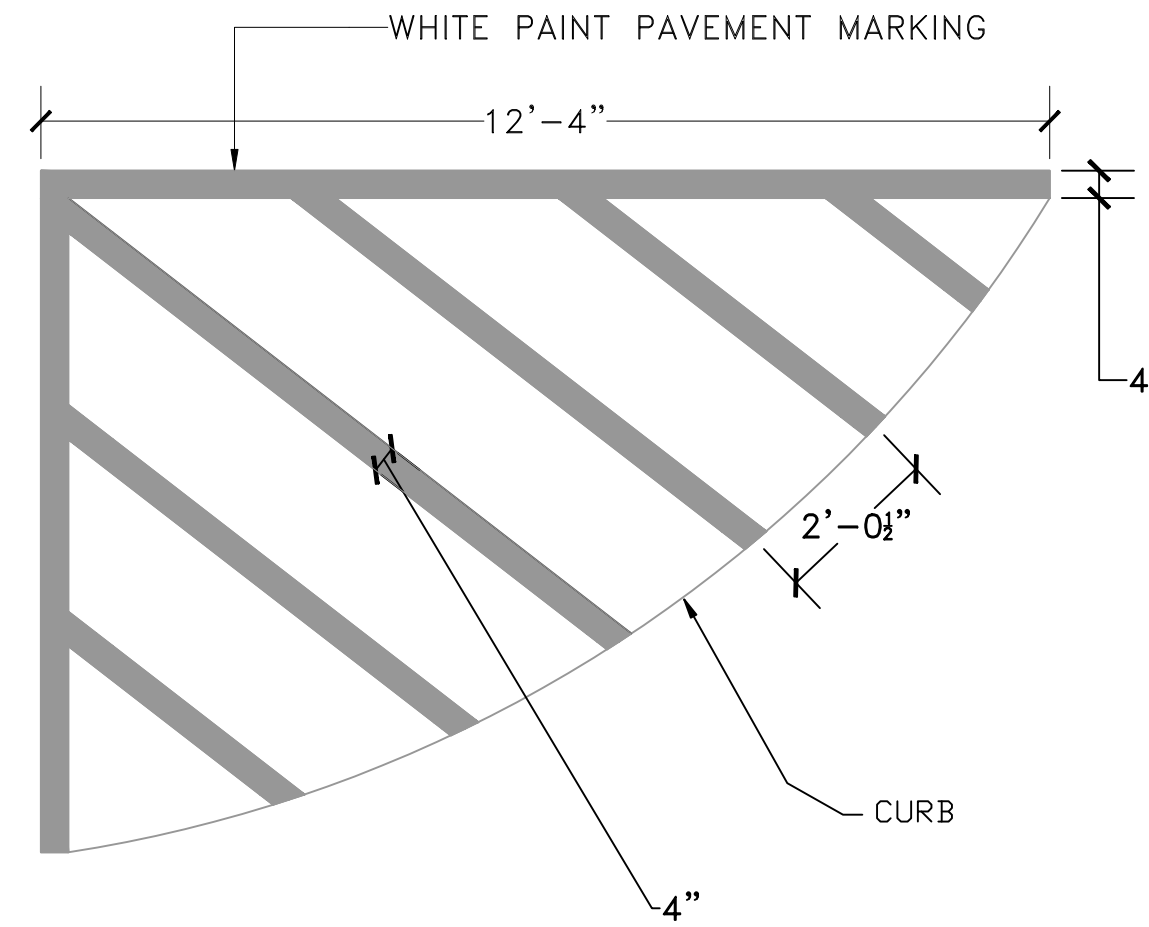
### TYPE IV (L) ARROW

(FOR TYPE III (R) ARROW, USE MIRROR IMAGE)

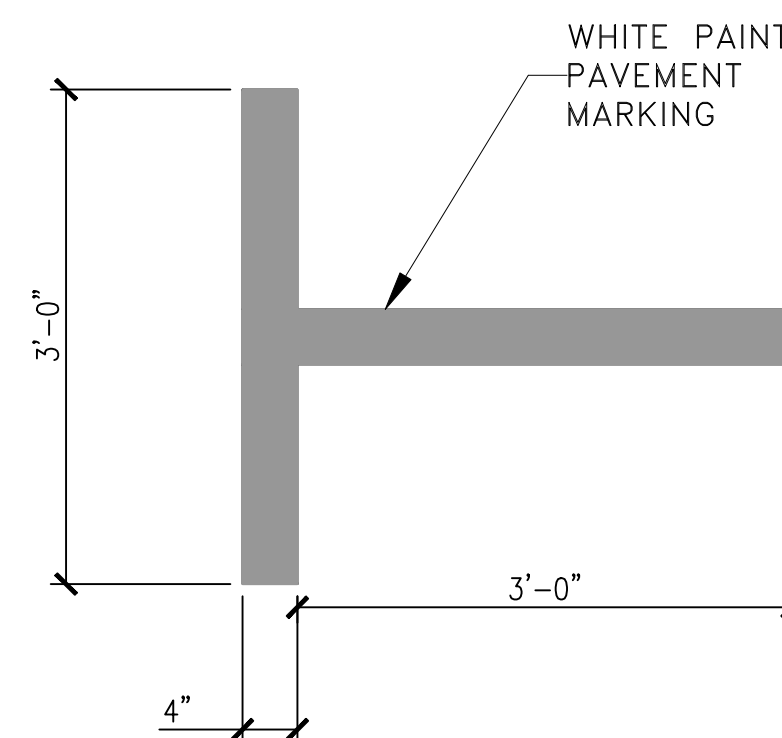


A=13 sq ft

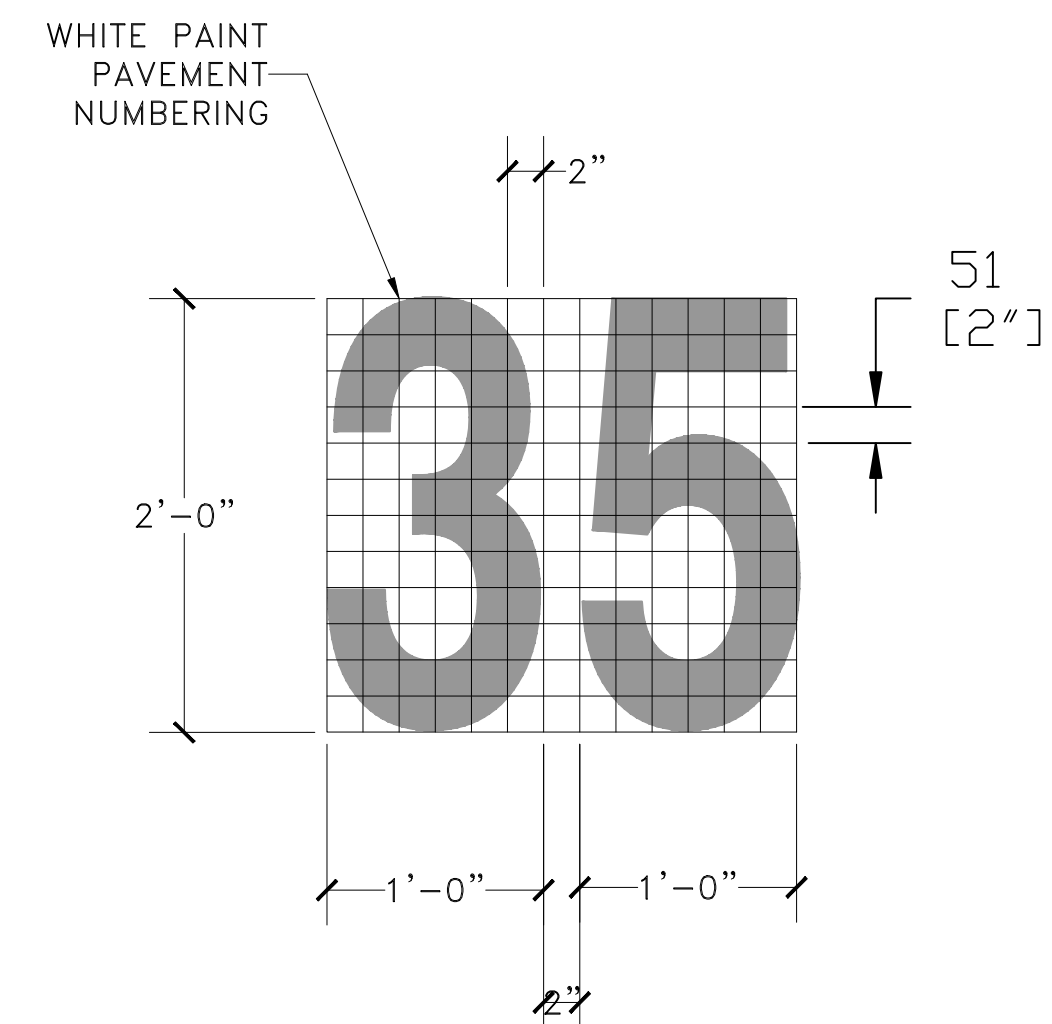
### TYPE I 10'-0" ARROW



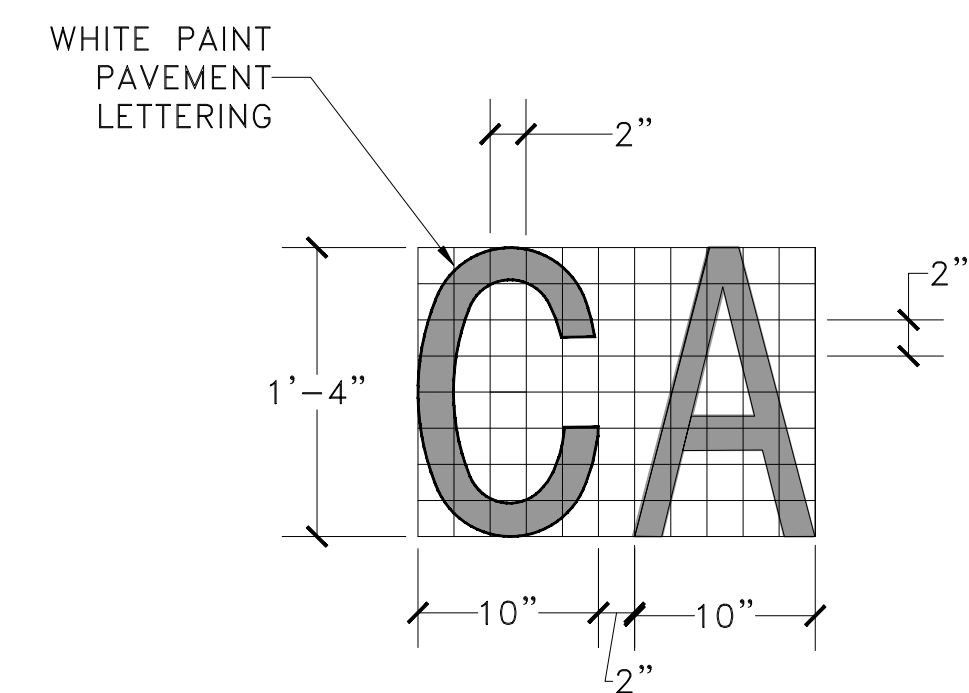
### PAVEMENT MARKING A



### PAVEMENT MARKING D

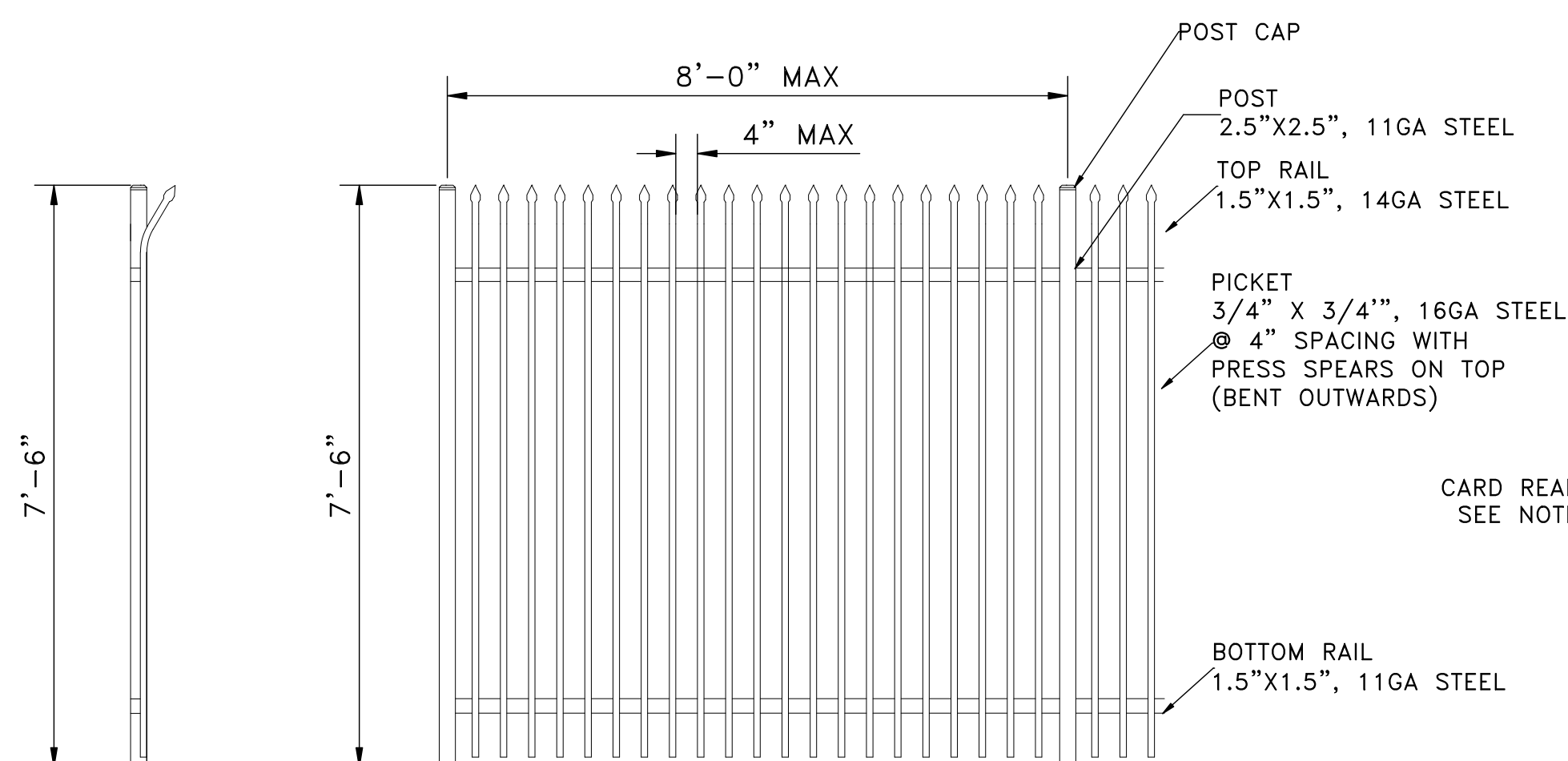


### PAVEMENT MARKING B



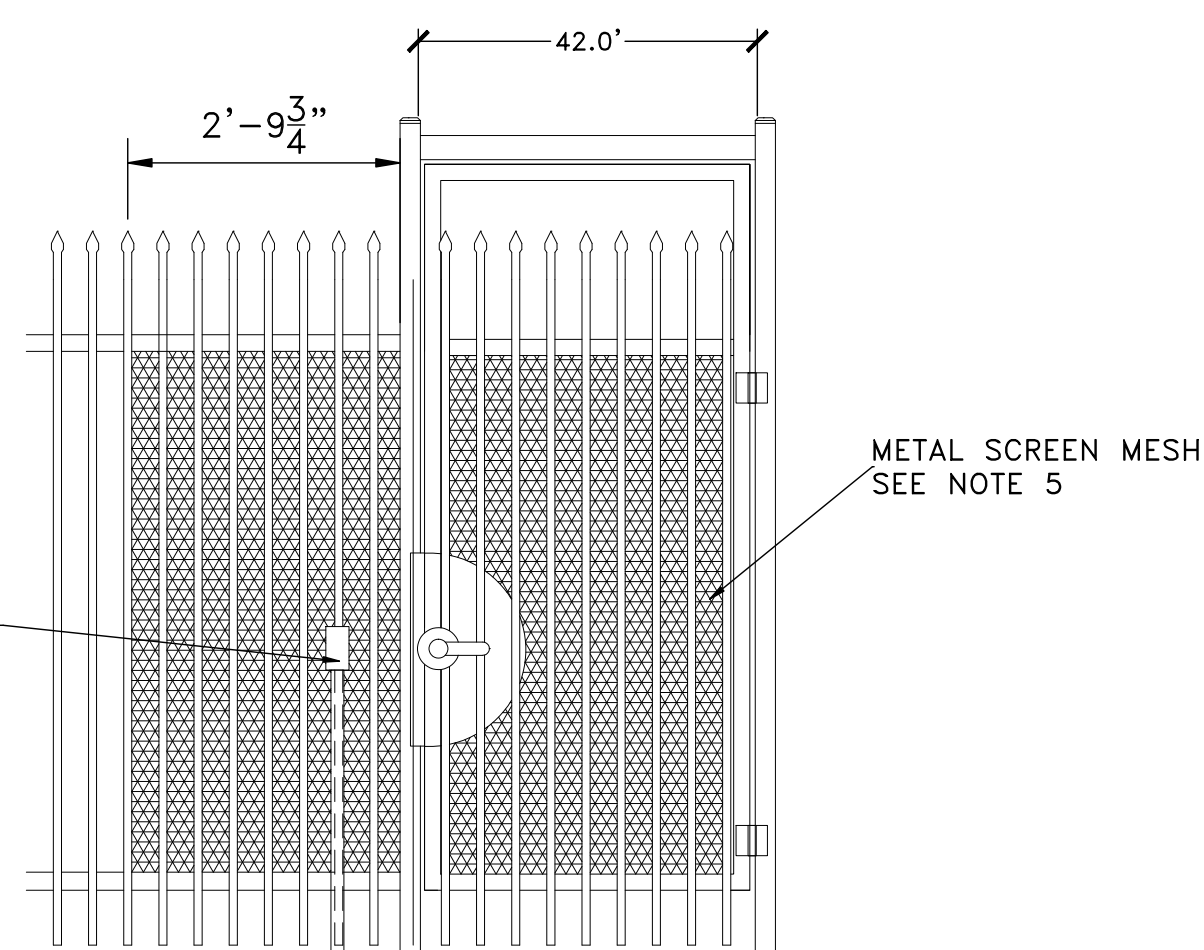
### PAVEMENT MARKING C

PAINT 14 STALLS: **CAR POOL**  
PAINT 2 STALLS: **RESV. AC TRANSIT**



### SECTION

### TYP PANEL



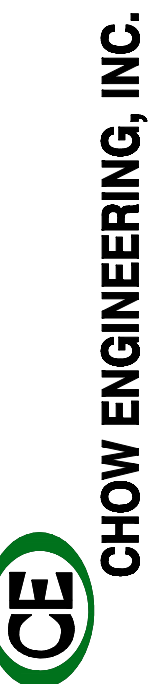
### ENTRY GATE

- FENCE NOTES:
- APPROXIMATELY 40 LF OF 7'-6" TALL NEW COMMERCIAL GRADE STEEL FENCE.
  - (1) PEDESTRIAN GATE, 42" WIDE X 84" TALL. GATE TO BE EQUIPPED WITH LEVER LOCK AND EXPANDED METAL TO PREVENT REACHING. GATE TO HAVE A SELF-CLOSING HYDRAULIC DOOR CLOSER.
  - FENCE TO BE POWDER COATED BLACK.
  - POSTS TO HAVE STEEL FLANGE PLATES AND TO BE BOLTED TO CONCRETE SLAB.
  - FENCING AND GATE TO HAVE METAL SCREEN MESH ON THE INSIDE.
  - CARD READER TO BE INSTALLED NEAR GATE LEVER LOCK. PROVIDE ADDITIONAL SHORT POST TO SUPPORT CARD READER.

1

### FENCE DETAILS

Scale: NTS



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DRAWING TITLE:  
**MARKING DETAILS**  
**RICHMOND PARKWAY TRANSIT CENTER**  
**SITE IMPROVEMENTS**

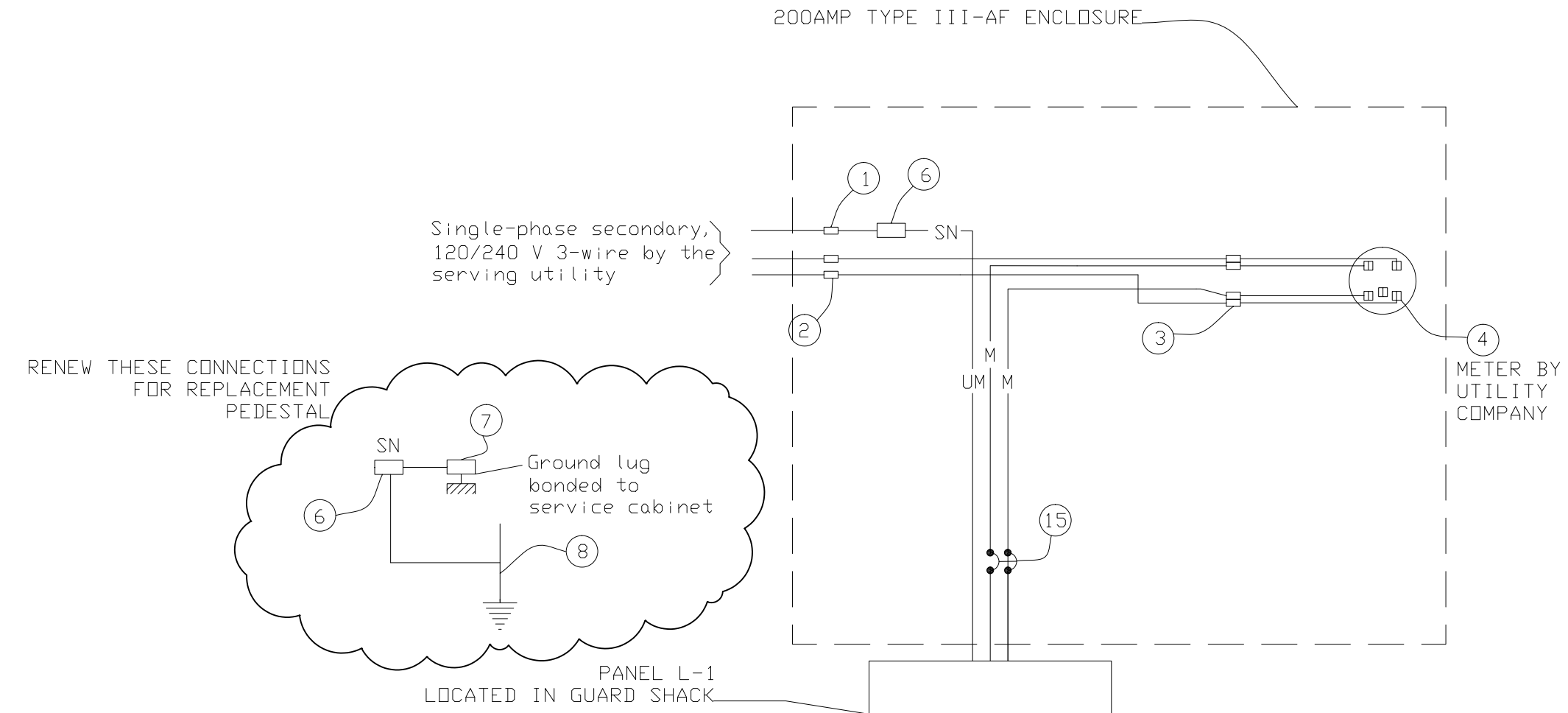
OWNER:  
**AC TRANSIT**  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

STAMP

DATE 12-2-19  
SCALE AS NOTED  
SHEET SIZE ARCH D  
DRAWN DW  
CHECKED LK  
JOB NO. 19R-101  
DRAWING NO.  
**SD3**  
SHEET NO. 15 of 16  
REVISION NO. 0

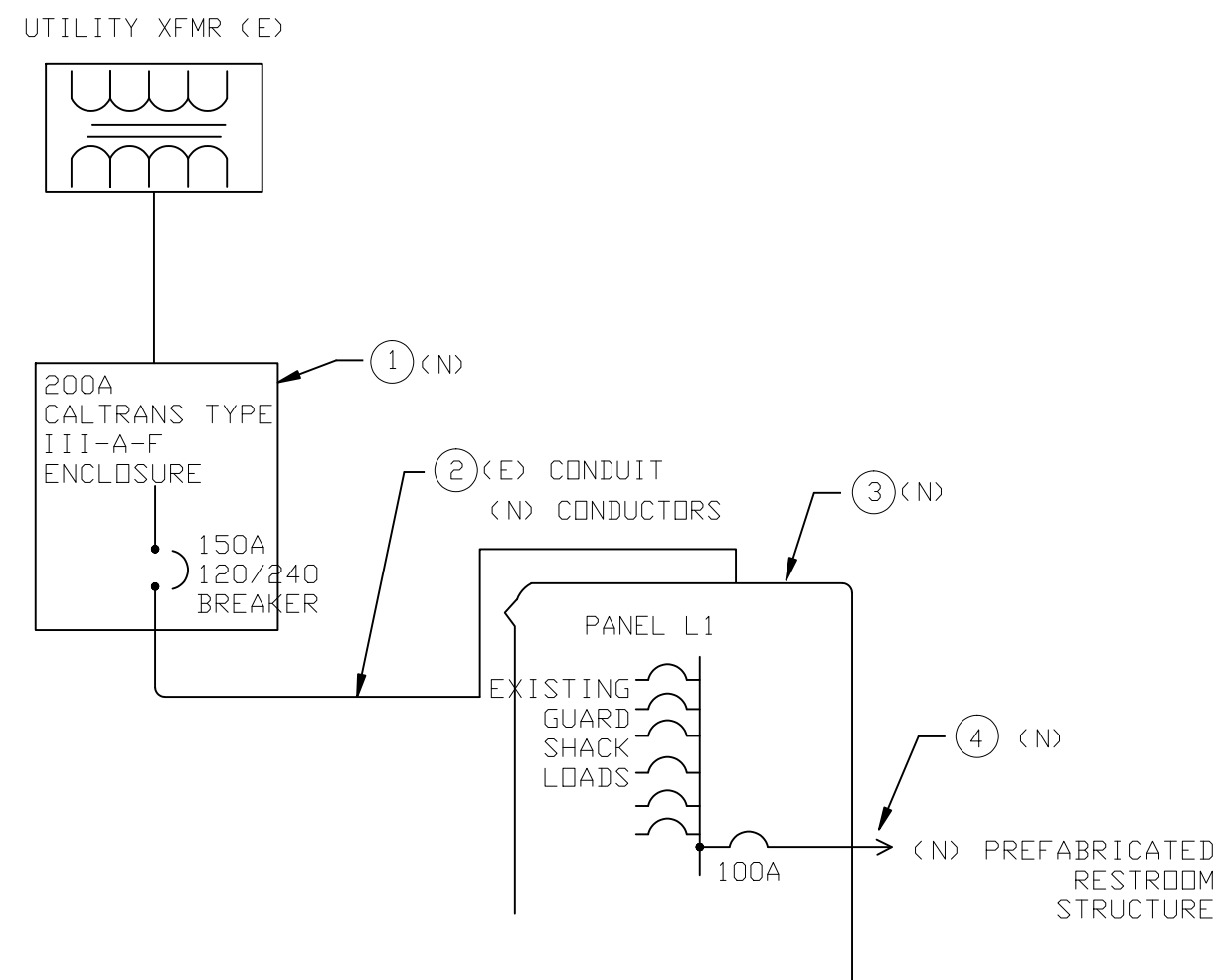


| PANEL - L-1                  |                             | 120/240 VOLTS |   | 1 PHASE        |     | 3 WIRE   |     | MAIN  |   | MOUNTING                                    |        |
|------------------------------|-----------------------------|---------------|---|----------------|-----|----------|-----|---|---|---|--------|
| RICHMOND PARKWAY PARK & RIDE |                             | TYPE          |   | /PLUG-IN       |     | 200 Amps |     | <input checked="" type="checkbox"/> Lugs Only |   | <input checked="" type="checkbox"/> Surface |        |
| LOCATION - GUARD SHACK       |                             |               |   |                |     |          |     | <input type="checkbox"/> CB                   |   | <input type="checkbox"/> Flush              |        |
| CKT NO                       | LOAD DESCRIPTION & LOCATION | BRKR          |   | PHASE KVA LOAD |     |          |     | BRKR  |   | LOAD DESCRIPTION & LOCATION                 | CKT NO |
|                              |                             | A             | P | ØA             | ØB  | ØA       | ØB  | A   | P |   |        |
| 1                            | GUARD SHACK RECEPTACLES     | 20            | 1 | 1.5            |     | 16       |     | 20  | 2 | HEATER                                      | 2      |
| 3                            | GUARD SHACK LIGHTING        | 20            | 1 |                | 0.5 |          | 16  |   |   |   | 4      |
| 5                            | TICKET MACHINE # 1          | 20            | 1 | 0.5            |     | 2.1      |     | 20  | 1 | BUS SHELTER LIGHTING                        | 6      |
| 7                            | TICKET MACHINE # 2          | 20            | 1 |                | 0.5 |          | 1.5 | 20  | 1 | WALL OUTLET                                 | 8      |
| 9                            | TICKET MACHINE # 3          | 20            | 1 | 0.5            |     | 1.5      |     | 20  | 1 | WALL OUTLET                                 | 10     |
| 11                           | WEST CAT SIGN               | 20            | 1 |                | 2   |          | 16  | 20  | 1 | A/C   | 12     |
| 13                           | SPARE                       | 20            | 1 |                |     |          |     |   |   | PREFAB RESTROOM STRUCTURE                   | 14     |
| 15                           | SPARE                       | 20            | 1 |                |     | 80       | 80  | 100   | 2 |   | 16     |
| 17                           | SPACE                       |               |   |                |     |          |     |   |   | SPACE                                       | 18     |
| 19                           | SPACE                       |               |   |                |     |          |     |   |   | SPACE                                       | 20     |
| 21                           | SPACE                       |               |   |                |     |          |     |   |   | SPACE                                       | 22     |
| 23                           | SPACE                       |               |   |                |     |          |     |   |   | SPACE                                       | 24     |
| 25                           | SPACE                       |               |   |                |     |          |     |   |   | SPACE                                       | 26     |
| 27                           | SPACE                       |               |   |                |     |          |     |   |   | SPACE                                       | 28     |
| 29                           | SPACE                       |               |   |                |     |          |     |   |   | SPACE                                       | 30     |
| PROPOSED LOAD: PHASE A=      |                             | 102 AMPS      |   |                |     |          |     |   |   |   |        |
| PROPOSED LOAD: PHASE B=      |                             | 117 AMPS      |   |                |     |          |     |   |   |   |        |



120/240 V SERVICE WIRING DIAGRAM (TYPICAL)

| TYPE I I I-A SERVICE (120/240 V) EQUIPMENT LEGEND |                              |                        |
|---|------------------------------|------------------------|
| ITEM NO.  | COMPONENT                    | NAME PLATE DESCRIPTION |
| 1   | Neutral lug                  |                        |
| 2   | Landing lug                  |                        |
| 3   | Test bypass facility         |                        |
| 4   | Meter socket and support     |                        |
| 5   | Terminal blocks              |                        |
| 6   | Solid neutral terminal strip |                        |
| 7   | Ground lug                   |                        |
| 8   | Ground rod 5/8" x 8'         |                        |
| 15  | 100 A, 240 V, 2P, CB         | Main Breaker           |



SINGLE LINE DIAGRAM

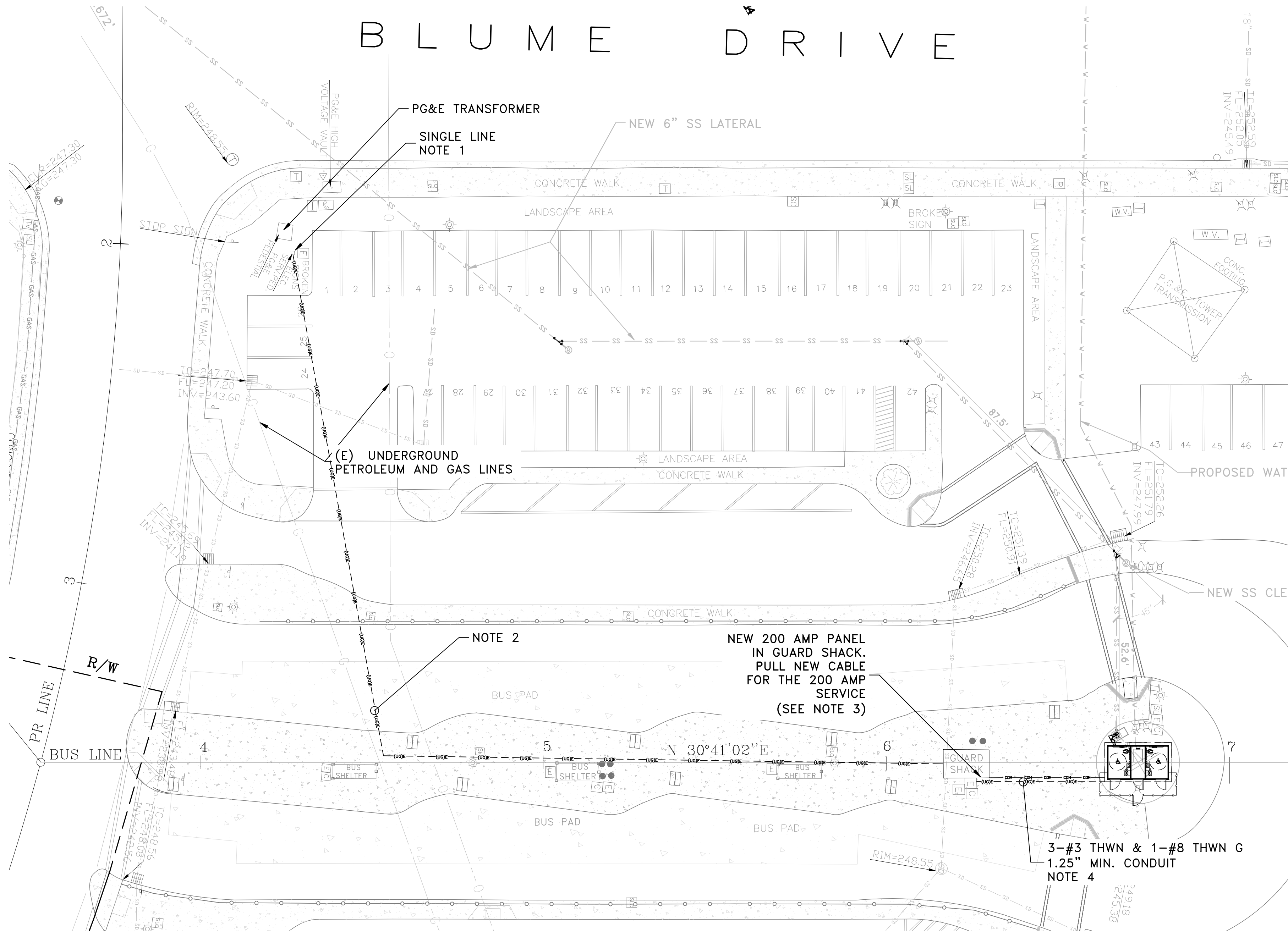


ELECTRICAL PLAN AND SINGLE LINE NOTES

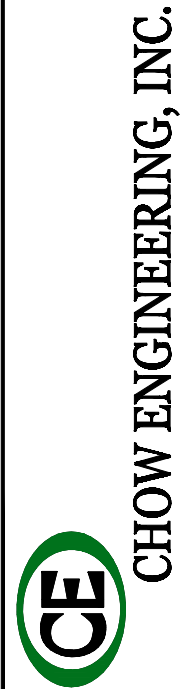
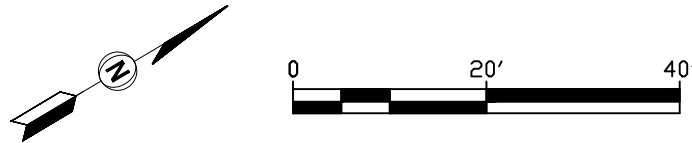
- REPLACE EXISTING 100A, CALTRANS TYPE III-A-F, LOW PROFILE UNDERGROUND SERVICE DISTRIBUTION, METERING AND CONTROL PEDESTAL WITH SIMILAR PEDESTAL RATED FOR 200A WITH 150A MAIN BREAKER. TESCO MODEL 27-000 OR EQUAL. REPLACE GROUNDING & BONDING CONNECTIONS FOR NEW PEDESTAL (SERVICE CABINET).
- REMOVE EXISTING 4-#2 THHN CONDUCTORS FROM 2" CONDUIT BETWEEN PEDESTAL AND GUARD SHACK PANEL L-1. REPLACE WITH 3-300 KCMIL THWN CONDUCTORS AND 1-#3 BARE COPPER WIRE GROUNDING CONDUCTOR.
- REMOVE EXISTING 100 AMP GUARD SHACK PANEL L-1. REPLACE WITH 200 AMP LOAD CENTER, SQUARE D MODEL QO130200G, 240 V, 200A, 1 PHASE, 30 SPACES, MAIN LUGS, 65 KA SHORT CIRCUIT CURRENT.
- INSTALL NEW 100A CIRCUIT FROM PANEL L-1 TO PREFABRICATED RESTROOM STRUCTURE. THIS CIRCUIT WILL INCLUDE 100A BREAKER, MIN. 1-1/4" CONDUIT, 3-#3 AWG THWN + 1-#8 AWG GROUND.

GENERAL NOTES:

- EXISTING UTILITY LOCATIONS SHOWN ARE APPROXIMATE. CONTRACTOR SHALL CONTACT 'UNDERGROUND SERVICE ALERT' PHONE NO. 800-642-2444 FOR UTILITY MARKING SERVICES AT LEAST 48 HOURS IN ADVANCE OF COMMENCING WORK. FURTHERMORE, CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING LOCATIONS OF ALL CONNECTIONS TO EXISTING UTILITIES AND CONFORM TO THE REQUIREMENTS OF THE UTILITY AGENCIES REGARDING CONNECTIONS AND ABANDONMENT.
- CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE APPROPRIATE UTILITY COMPANIES OR CITY AGENCIES REGARDING PLACEMENT OF ALL SERVICES TO THE SITE.



1 ELECTRICAL PLAN  
Scale: 1"=20'



DRAWING TITLE:  
ELECTRICAL PLAN  
RICHMOND PARKWAY TRANSIT CENTER  
SITE IMPROVEMENTS  
OWNER:  
AC TRANSIT  
1600 FRANKLIN ST.  
OAKLAND, CA 94612

STAMP

|              |          |
|--------------|----------|
| DATE         | 12-2-19  |
| SCALE        | AS NOTED |
| SHEET SIZE   | ARCH D   |
| DRAWN        | AZ       |
| CHECKED      | WT       |
| JOB NO.      | 19R-101  |
| DRAWING NO.  |          |
| E-1          |          |
| SHEET NO.    | 16 of 16 |
| REVISION NO. | 0        |