## GENERAL NOTES

1. WATER SERVICE PROVIDER IS TUCSON WATER AND IS CERTIFIED BY THE STATE FOR THE 100-YEAR ASSURED WATER SUPPLY.
2. THIS PROJECT CAN CONNECT TO EXISTING INFRASTRUCTURE (SWAN ROAD).
3. THIS PROJECT WILL NOT INCLUDE ANY NEW SEWER OR CONNECTIONS TO EXISTING PUBLIC SEWER.
4. THE CITY FLOODPLAIN ORDINANCE IS APPLICABLE TO THIS PROJECT.
5. ARTICLE VIII SECTION 29-12 OF THE TUCSON CODE IS NOT APPLICABLE TO THIS PROJECT.
6. THIS PARCEL DOES CONTAIN WATERCOURSES THAT ARE DESIGNATED AS W.A.S.H. WATERCOURSES AND WATERCOURSES ZONED AS ERZ, HOWEVER THOSE AREAS SHALL REMAIN UNDISTURBED FOR THIS PROJECT.
7. GROSS SITE AREA IS 317.0 ACRES, PROPOSED GRADED AREA IS 16.4 ACRES.
8. THERE ARE NO EXISTING OR PROPOSED TRAFFIC SIGNAL WITHIN ONE MILE OF THE PROJECT BOUNDARIES.
9. THE LOCATION OF THE NEAREST PUBLIC TRANSIT STOP IS AT RITA ROAD AND SCIENCE PARK DRIVE, 5 MILES FROM THIS SITE. THERE ARE NO PROPOSED PUBLIC TRANSIT STOPS.
10. THE LOCATION OF THE NEAREST PARK-AND-RIDE IS FAST PARK & RELAX AT 6970 S. TUCSON BLVD., 4.8 MILES FROM THIS SITE.
11. AVERAGE DAILY TRAFFIC FOR SWAN ROAD IS 1457 (PER PIMA COUNTY D.O.T. BETWEEN OLD VAIL CONNECTION ROAD AND LOS REALES ROAD)
12. TOTAL AMOUNT OF REGULATED RIPARIAN HABITAT ONSITE: 6.43 ACRES TOTAL. 0.27 ACRES XERORIPARIAN B, 1.45 ACRES XERORIPARIAN C, 4.71 ACRES XERORIPARIAN D.
13. TOTAL AMOUNT OF REGULATED RIPARIAN HABITAT DISTURBED ONSITE BY THIS PROJECT: XERORIPARIAN D: 1.34 ACRES.
14. TOTAL AMOUNT OF REGULATED RIPARIAN HABITAT DISTURBED ONSITE DOES REQUIRE A RIPARIAN HABITAT MITIGATION PLAN.

## BASIS OF BEARINGS

THE BASIS OF BEARINGS IS THE SOUTH LINE OF THE SOUTHWEST QUARTER OF SECTION 2, T16S, R14E, G&SRM, BEARING BEING N 89° 24' 46" E NAD83(HARN92).

## BASIS OF ELEVATIONS

BASIS OF ELEVATIONS IS A BCSM LS 4785 AT THE WEST QUARTER CORNER OF SECTION 2, T16S, R14E, G&SRM.
SAID ELEVATION BEING 2743.16'.
NAVD88.

## SURVEY NOTES

ALL BEARINGS AND DISTANCES ARE GRID.

SURFACE (GROUND) COORDINATES ARE DERIVED BY DIVIDING EACH GRID NORTHING COORDINATE AND GRID EASTING COORDINATE BY THE CSF AND SUBTRACTING A CONSTANT FROM THE RESULTING COORDINATE.

N CONSTANT = 300,000
E CONSTANT = 900,000

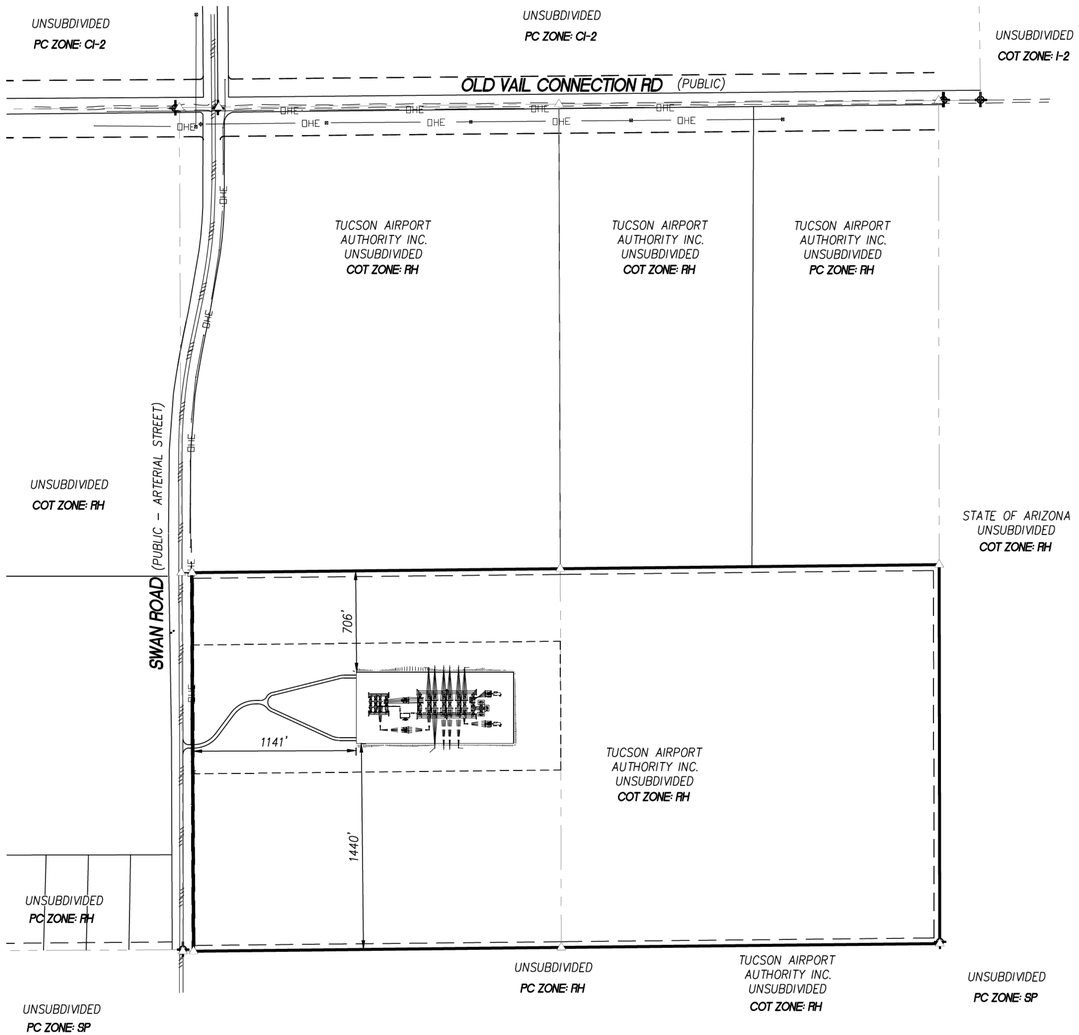
(GRID N/CSF) – N CONSTANT = GROUND N
(GRID E/CSF) – E CONSTANT = GROUND E

EXAMPLE: PT1
(N389,537.872/0.999884768) – 300,000 = N89582.764
(E1,017,085.924/0.999884768) – 900,000 = E117203.138

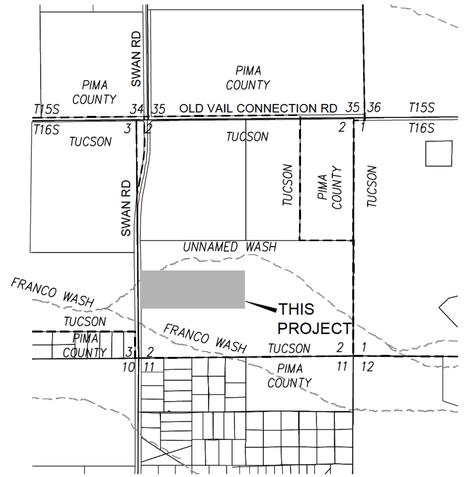
HORIZONTAL & VERTICAL CONTROL & SCALE POINT: ORIGIN PT.
DERIVED NORTHING: 0.00000
DERIVED EASTING: 0.00000

COMBINED SCALE FACTOR: 0.999884768

ROTATION: 0° 00' 00"




ZONING INFORMATION MAP
0' 500' 1000' 1500'
SCALE: 1"=500'




A PORTION OF SECTION 2,
T-16-S, R-14-E, G&SRM,
CITY OF TUCSON, PIMA COUNTY, ARIZONA
SCALE 3"=1 MILE

### CIVIL ENGINEER
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TEL: (520) 321-4625
FAX: (520) 321-0333

### LANDSCAPE ARCHITECT
WESTLAND RESOURCES, INC.
4001 E. PARADISE FALLS DRIVE
TUCSON, ARIZONA 85712
ATTN: RICK SCHONFELD
TEL: (520) 206-9585
FAX: (520) 206-9518

### OWNER/DEVELOPER
TUCSON ELECTRIC POWER COMPANY
MAIL STOP HQW603
PO BOX 711
TUCSON, ARIZONA 85702
TEL: (520) 884-3642
FAX: (520) 545-1419
CONTACT: RENEE DARLING

### SHEET INDEX


| | | | |
|---|---|---|---|
| 1 OF 3 | CVR | 0394-000-00-0001 | COVER SHEET AND NOTES. |
| 2 OF 3 | C01 | 0394-000-04-0001 | PRELIMINARY SITE/GRADING PLAN. |
| 3 OF 3 | C02 | 0394-000-04-0002 | GRADING PLAN DETAILS. |


Call at least two full working days before you begin excavation.
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Tel 520.321.4625 | Fax 520.321.0333


AUGUST 2018
EEC JOB NO 204014.122

COVER SHEET AND GENERAL SITE NOTES

# PRELIMINARY DEVELOPMENT PACKAGE
FOR
# TEP SONORAN SUBSTATION

A PORTION OF SECTION 2, T16S, R14E, G&SRM,
CITY OF TUCSON, PIMA COUNTY, ARIZONA
PDP18-_____
COT ADMINISTRATIVE ADDRESS:
(NONE)
_____.
TUCSON, ARIZONA 85756

1 OF 3

REVISIONS

| DATE | ENG | TECH | REV |
|---|---|---|---|
| - | A.WARE | P. OLIVAS | 00 |

DESCRIPTION:
PRELIMINARY DEVELOPMENT PLAN
JOB 9304\D18RU01
SONORAN SUBSTATION

SCALE FACTOR: DATE
CONTRACTED ENG: DATE
ENGINEERING TECH: DATE
PROJECT ENGINEER: DATE
ENGINEER APPROVAL: DATE

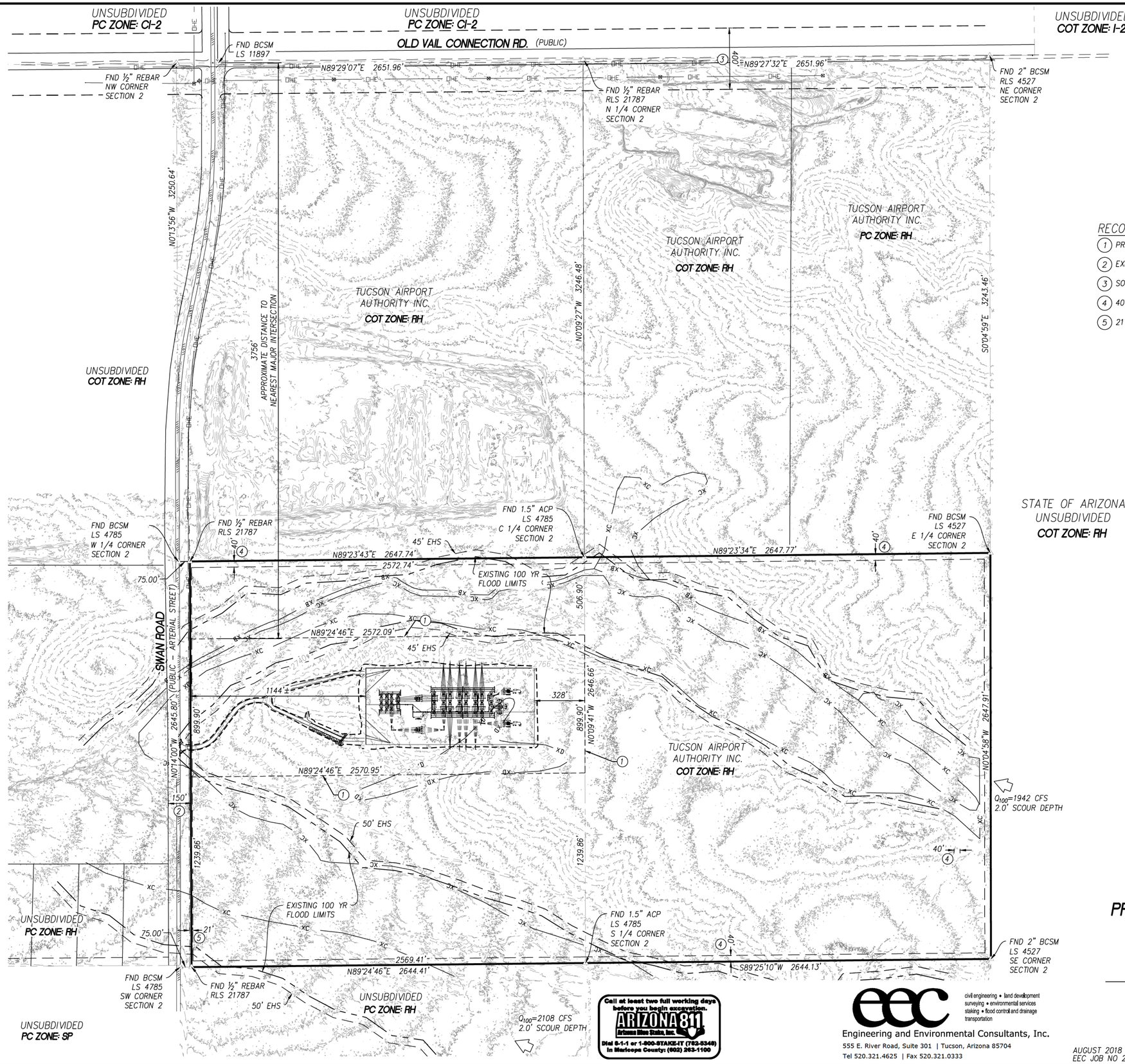
AUTOCADD

Tucson Electric Power Company
TUCSON, ARIZONA

TITLE: SITE DEVELOPMENT COVER SHEET AND NOTES SONORAN SUBSTATION

TRSQ 161402NW
REF # N/A
DWG # 0394-000-00-0001
REV 00 SHEET CVR

N:\204014.122 Sonoran Substation\950 CADD\955 DWG\PDP\0394-000-00-0001.dwg Plotted: Aug 21, 2018 - 6:31am btenor




0' 300' 600' 900'

SCALE: 1"=300'

## RECORD DATA KEYNOTES

1. PROPOSED SUBSTATION LEASE AREA.
2. EXISTING 150' PUBLIC RIGHT OF WAY.
3. SONORAN CORRIDOR & AVIATION PARKWAY FUTURE 400' MS&R R/W.
4. 40' PERIMETER YARD SETBACK (NON RES. USE – RES. ZONE=4xH)
5. 21' STREET PERIMETER YARD SETBACK (FROM BACK OF FUTURE CURB)

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# PRELIMINARY DEVELOPMENT PACKAGE
FOR
# TEP SONORAN SUBSTATION

A PORTION OF SECTION 2, T16S, R14E, G&SRM,
CITY OF TUCSON, PIMA COUNTY, ARIZONA

PDP18-____

COT ADMINISTRATIVE ADDRESS:
(NONE)
_____
TUCSON, ARIZONA 85756

AUGUST 2018
EEC JOB NO 204014.122

2 OF 3

REVISIONS

| DATE | ENG | TECH | REV |
|---|---|---|---|
| - | A.WARE | P. OLIVAS | 00 |

DESCRIPTION:
PRELIMINARY DEVELOPMENT PLAN
JOB 9304\D18BU01
SONORAN SUBSTATION

SCALE FACTOR: DATE
CONTRACTED ENG: DATE
ENGINEERING TECH: DATE
PROJECT ENGINEER: DATE
ENGINEER APPROVAL: DATE

AUTOCADD

Tucson Electric Power Company
TUCSON, ARIZONA

TITLE: SITE DEVELOPMENT
PRELIMINARY SITE/GRADING PLAN
SONORAN SUBSTATION

TRSQ 161402NW
REF # N/A
DWG # 0394-000-04-0001
REV 00
SHEET C01

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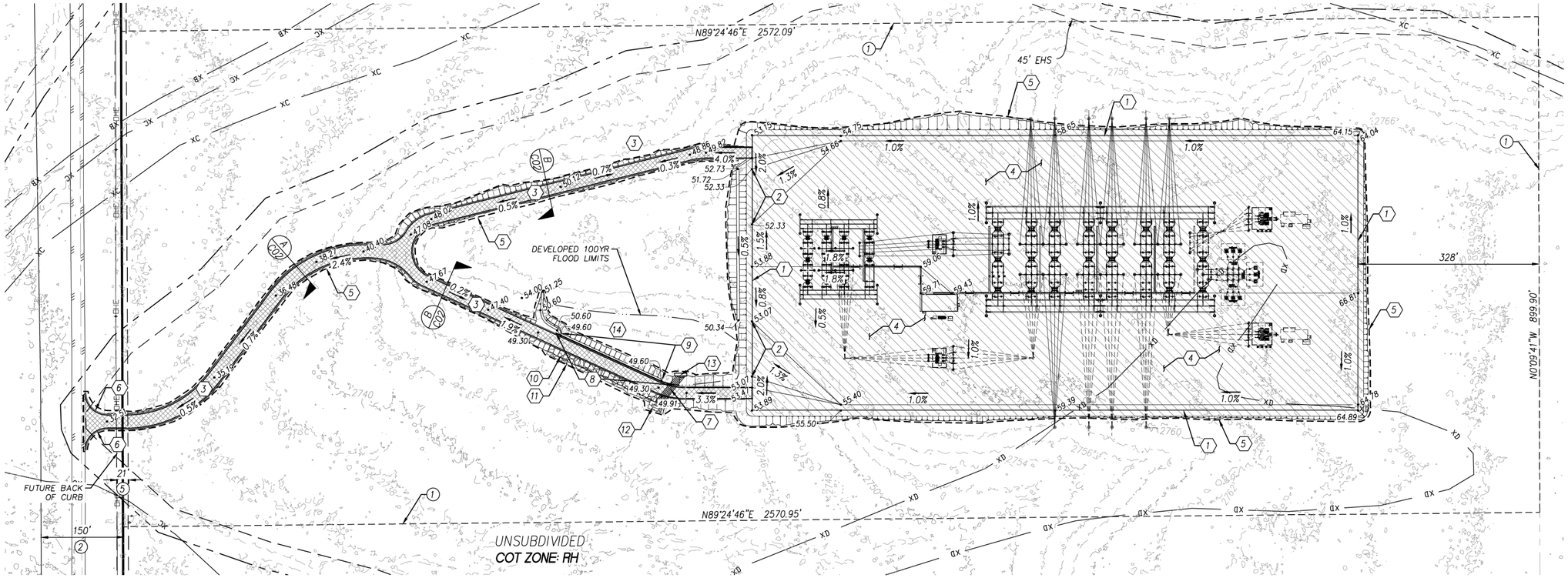
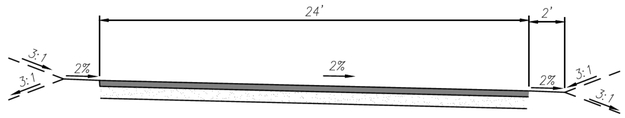



## KEYNOTES

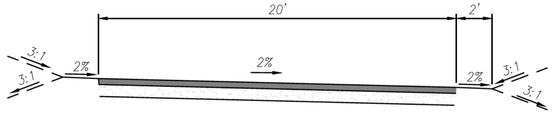
1. PROPOSED 10' TALL x 500' x 1,000' CMU SCREEN WALL
2. PROPOSED 100' OPENING FOR DRAINAGE WITH WROUGHT IRON FENCING.
3. PROPOSED ASPHALT PAVEMENT ACCESS DRIVE
4. PROPOSED 4" STABILIZED AGGREGATE BASE OVER 100% COMPACTED SUBGRADE.
5. PROPOSED GRADING LIMITS
6. PROPOSED CONCRETE HEADER.
7. PROPOSED (7) 18" DIA. X 67 LF RCP'S.
8. PROPOSED 1' WIDE X 4' DEEP CONCRETE CUT-OFF WALL
9. PROPOSED BASIN EMERGENCY OVERFLOW WEIR, WEIR OPENING 1 FOOT TALL X 200 FEET LONG. TOP OF BERM=50.6, WEIR FLOWLINE=49.6.
10. PROPOSED GROUTED RIPRAP SLOPE STABILIZATION ADJACENT TO WEIR OPENING.
11. PROPOSED 5 FOOT WIDE GROUTED RIPRAP APRON, WITH 1' WIDE X 2' DEEP CONCRETE HEADER ON BOTH SIDES AND DOWNSTREAM EDGE OF APRON.
12. PROPOSED 1' THICK RIPRAP ($D_{50}$=6") OVER FILTER FABRIC ENERGY DISSIPATOR AT PIPES OUTLET. DEPTH 1', LENGTH 8', APRON 4'.
13. PROPOSED BASIN OUTLET WEIR STRUCTURE. 30' WIDE @ 48.25', 6" ORIFICE @ BOTTOM
14. DETENTION/RETENTION BASIN, 100YR WSEL=2749.28.

## RECORD DATA KEYNOTES

1. PROPOSED SUBSTATION LEASE AREA.
2. EXISTING 150' PUBLIC RIGHT OF WAY.
5. 21' STREET PERIMETER YARD SETBACK (FROM BACK OF FUTURE CURB)




A TWO WAY ACCESS SECTION
NTS




B ONE WAY ACCESS SECTION
NTS

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# PRELIMINARY DEVELOPMENT PACKAGE
FOR
# TEP SONORAN SUBSTATION

A PORTION OF SECTION 2, T16S, R14E, G&SRM,
CITY OF TUCSON, PIMA COUNTY, ARIZONA
PDP18-____

COT ADMINISTRATIVE ADDRESS:
(NONE)
_____
TUCSON, ARIZONA 85756

AUGUST 2018
EEC JOB NO 204014.122



## REVISIONS

| DATE | ENG | TECH | REV |
|---|---|---|---|
| - | A.WARE | P. OLIVAS | 00 |

DESCRIPTION:
PRELIMINARY DEVELOPMENT PLAN
JOB 930410(18RU0)
SONORAN SUBSTATION

DATE
SCALE FACTOR:
CONTRACTED ENG:
DATE
ENGINEERING TECH:
DATE
PROJECT ENGINEER:
DATE
ENGINEER APPROVAL:

AUTOCADD

Tucson Electric Power Company
TUCSON, ARIZONA

TITLE: SITE DEVELOPMENT
GRADING PLAN DETAILS
SONORAN SUBSTATION

TRSQ 161402NW
REF # N/A
DWG # 0394-000-04-0002
REV 00
SHEET C02

N:\204014.122 Sonoran Substation\950 CADD\955 DWG\PDP\0394-000-04-0002.dwg Plotted: Aug 22, 2018 - 2:28pm jvalenzuela