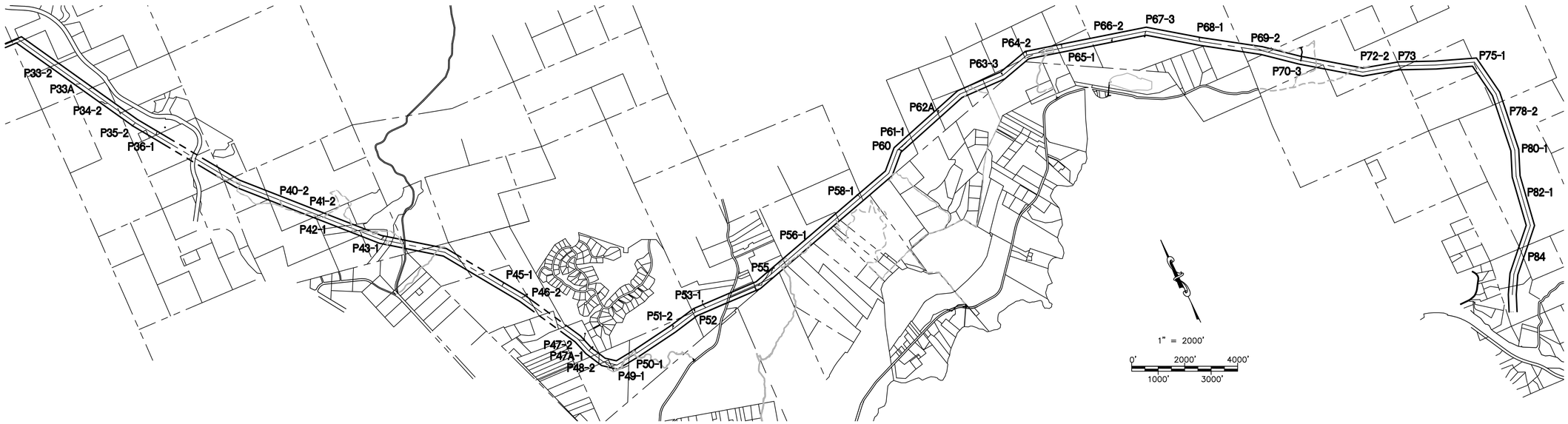
SUNRISE POWERLINK PROJECT
SECTION 5 (LINK 5)
230kV LINE



OFF-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P33-2-P36-1-KEY01
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P37-2-P43-1-KEY02
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P44-1-P46-2-KEY03
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P47-2-P53-1-KEY04
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P54-1-P56-1-KEY05
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P57-P62-1-KEY06
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P63-3-P67-3-KEY07
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P68-1-P70-3-KEY08
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P71-P80-1-KEY09
KEY MAP + MINOR ROAD IMPROVEMENTS	05-P81-1-P86-KEY10
OFF-SITE ROAD DESIGN MINOR	05-P69-2-P70-3-ARMJ

ON-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
SITE P-69-2	05-P69-2-S1
SITE P-70-3	05-P70-3-S1

TOWER STAGING / ACCESS PAD
ON-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
SITE P-33-2	05-P33-2-TSAP
SITE P-33A	05-P33A-TSAP
SITE P-34-2	05-P34-2-TSAP
SITE P-35-2	05-P35-2-TSAP
SITE P-36-1	05-P36-1-TSAP
SITE P-43-1	05-P43-1 & P45-1-TSAP
SITE P-45-1	05-P43-1 & P45-1-TSAP
SITE P-46-2	05-P46-2-TSAP
SITE P-47-2	05-P47-2-TSAP
SITE P-47A-1	05-P47A-1-TSAP
SITE P-48-2	05-P48-2 & 49-1-TSAP
SITE P-49-1	05-P48-2 & P49-1-TSAP
SITE P-50-1	05-P50-1 & P51-2-TSAP
SITE P-51-2	05-P50-1 & P51-2-TSAP
SITE P-52	05-P52-TSAP
SITE P-53-1	05-P53-1-TSAP
SITE P-54-1	05-P54-1 & P55-TSAP
SITE P-55	05-P54-1 & P55-TSAP
SITE P-58-1	05-P58-1-TSAP
SITE P-60	05-P60 & P61-1-TSAP
SITE P-61-1	05-P60 & P61-1-TSAP
SITE P-62A	05-P62A & P63-3-TSAP
SITE P-63-3	05-P62A & P63-3-TSAP
SITE P-64-2	05-P64-2 & P65-1-TSAP
SITE P-65-1	05-P64-2 & P65-1-TSAP
SITE P-66-2	05-P66-2 & P67-3-TSAP
SITE P-67-3	05-P66-2 & P67-3-TSAP
SITE P-68-1	05-P68-1-TSAP
SITE P-72-2	05-P72-2-TSAP
SITE P-73-2	05-P73-2-TSAP
SITE P-75-1	05-P75-1 & P76-1-TSAP
SITE P-76-1	05-P75-1 & P76-1-TSAP
SITE P-78-2	05-P78-2 & P80-1-TSAP
SITE P-80-1	05-P78-2 & P80-1-TSAP
SITE P-82-1	05-P82-1 & P84-TSAP
SITE P-84	05-P82-1 & P84-TSAP

TEMPORARY COMMUNICATION SITE

SITE	SHEET NUMBER
05-P60	05-P60 COMM

01 PULL-SITE WORK TO BE DONE

SITE / ACCESS ROAD	SHEET NUMBER
PULL SITE P-43 -1 (SOUTH)	05-P43-1-PS-A
PULL SITE P-43 -1 (NORTH)	05-P43-1-PS-B
PULL SITE P-48-2 & P-49-1	05-P48-2 & P49-1-PS
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1	05-P48-2 & P49-1-PS-R1
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1	05-P48-2 & P49-1-PS-R2
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1	05-P48-2 & P49-1-PS-R3
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1	05-P48-2 & P49-1-PS-R4
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1	05-P48-2 & P49-1-PS-R5
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1	05-P48-2 & P49-1-PS-R6
PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R1
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R2
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R3
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R4
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R5
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R6
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R7
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R8
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R9
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R10
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R11
ACCESS ROAD TO PULL SITE P-55 & P-56-1	05-P55 & P56-1-PS-R12
PULL SITE P-64-2 & P-65-1	05-P64-2 & P65-1-PS
ACCESS ROAD TO PULL SITE P-64-2 & P-65-1	05-P64-2 & P65-1-PS-R1
ACCESS ROAD TO PULL SITE P-64-2 & P-65-1	05-P64-2 & P65-1-PS-R2
PULL SITE P-75-1 (NORTH) & (SOUTH)	05-P75-1-PS-A&B

PRIVATE ROADWAY / DRIVEWAY PLANS

SITE / ACCESS ROAD	SHEET NUMBER
TITLE SHEET	05-DWY-01
NOTES & DETAIL	05-DWY-02
TRAFFIC CONTROL PLANS	05-DWY-03
PERMIT 05-1&2	05-DWY-04
PERMIT 05-3&4	05-DWY-05
PERMIT 05-5&7	05-DWY-06
PERMIT 05-8	05-DWY-07

DECLARATION OF RESPONSIBLE CHARGE

I HEREBY DECLARE THAT I AM THE ENGINEER OF WORK FOR THIS PROJECT, THAT I HAVE EXERCISED RESPONSIBLE CHARGE OVER THE DESIGN OF THE PROJECT AS DEFINED IN SECTION 6703 OF THE BUSINESS AND PROFESSIONS CODE, AND THAT THE DESIGN IS CONSISTENT WITH THE CURRENT STANDARDS.

I UNDERSTAND THAT THE CHECK OF PROJECT DRAWINGS AND SPECIFICATIONS BY SDG&E IS CONFINED TO A REVIEW ONLY AND DOES NOT RELIEVE ME, AS ENGINEER OF WORK, OF MY RESPONSIBILITIES FOR PROJECT DESIGN.

STEPHEN K. SMITH
R.C.E. NO. 29708 EXP. 03-31-11

DATE

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\005-CVR01.dwg[]Aug-23-2010|4:34

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:
01	REMOVE SHEET P40-2-PS	8/23/10	MM	MB										
01	REMOVE SHEET P41-2-PS	8/23/10	MM	MB										
01	REMOVE SHEET P42-2-PS	8/23/10	MM	MB										
01	ADD SHEET P43-1-PS-A	8/23/10	MM	MB										
01	ADD SHEET P43-1-PS-B	8/23/10	MM	MB										

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
TITLE SHEET

DRAWN BY:	DATE: -/-/-	SCALE: AS NOTED	W.O.	REV. 0	SPL-05-001
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:	PLOT SCALE: 1 = 1				

GENERAL NOTES

THE FOLLOWING NOTES ARE PROVIDED TO GIVE DIRECTION TO THE CONTRACTOR BY THE ENGINEER OF WORK:

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE PORTIONS OF THE PROJECT SPECIFICATIONS.
2. NEITHER THE OWNER, NOR THE ENGINEER OF WORK WILL ENFORCE SAFETY MEASURES OR REGULATIONS. THE CONTRACTOR SHALL DESIGN, CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES, INCLUDING SHORING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.
3. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLACE, SPREAD, WATER AND COMPACT ALL FILL IN STRICT ACCORDANCE WITH PROJECT SPECIFICATIONS. A GEOTECHNICAL ENGINEER WILL BE THE OWNER'S REPRESENTATIVE TO INSPECT THE CONSTRUCTION OF FILLS. THE EXCAVATION AND THE PLACEMENT OF FILL WILL BE UNDER THE DIRECT INSPECTION OF THE GEOTECHNICAL ENGINEER, AND HE WILL GIVE WRITTEN NOTICE OF CONFORMANCE WITH THE SPECIFICATIONS UPON COMPLETION OF GRADING. DEVIATIONS FROM PROJECT SPECIFICATIONS WILL BE PERMITTED ONLY UPON WRITTEN AUTHORIZATION FROM THE GEOTECHNICAL ENGINEER OR THE SDG&E REPRESENTATIVE.
4. OBSERVATIONS AND COMPACTION TESTS WILL BE MADE BY THE GEOTECHNICAL ENGINEER DURING THE FILLING AND COMPACTING OPERATIONS SO THAT HE CAN STATE HIS OPINION THAT THE FILL WAS CONSTRUCTED IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
5. DURING CONSTRUCTION: THE CONTRACTOR SHALL GRADE ALL EXCAVATED AND FILLED SURFACES TO PROVIDE POSITIVE DRAINAGE AND PREVENT PONDING OF WATER. HE SHALL CONTROL SURFACE WATER TO AVOID DAMAGE TO ADJOINING PROPERTIES OR TO FINISH WORK ON THE SITE. THE CONTRACTOR SHALL TAKE REMEDIAL MEASURES TO PREVENT EROSION OF FRESHLY GRADED AREAS, AND UNTIL SUCH TIME AS PERMANENT DRAINAGE AND EROSION CONTROL MEASURES HAVE BEEN INSTALLED. AFTER GRADING IS COMPLETED AND THE GEOTECHNICAL ENGINEER HAS FINISHED HIS OBSERVATIONS OF THE WORK, NO FURTHER EXCAVATION OR FILLING SHALL BE DONE, EXCEPT UNDER THE OBSERVATION OF THE GEOTECHNICAL ENGINEER.
6. CONTRACTOR SHALL TAKE THE NECESSARY PRECAUTIONS REQUIRED TO PROTECT ADJACENT PROPERTIES DURING THE GRADING OPERATIONS.
7. BRUSH AND TREES SHALL BE REMOVED ONLY WITHIN THE AREA TO BE GRADED. WHEN TREES ARE REMOVED, THE ROOT SYSTEMS SHALL ALSO BE REMOVED AND THE RESULTING EXCAVATION FILLED WITH PROPERLY COMPACTED FILL SOILS.
8. CUT AND FILL SLOPES SHALL BE TRIMMED TO THE FINISH GRADE TO PRODUCE A SMOOTH AND UNIFORM SURFACE OR CROSS-SECTION. THE SLOPES OF EXCAVATIONS OR EMBANKMENTS SHALL BE SHAPED AND TRIMMED AS DIRECTED BY THE SDG&E REPRESENTATIVE AND LEFT IN A NEAT AND ORDERLY CONDITION. ALL STONES, ROOTS, OR OTHER WASTE MATTER EXPOSED ON EXCAVATION OR EMBANKMENT SLOPE SHALL BE REMOVED AND DISPOSED OF.
9. GRADING SHALL BE DONE WITHIN A TOLERANCE OF ±0.1' OF THE GRADES AND ELEVATIONS SHOWN ON THESE PLANS AND ALL SLOPES SHALL BE CONSTRUCTED WITHIN ±0.5' OF THE LOCATION SHOWN ON THESE PLANS. IN NO WAY SHALL THE ABOVE TOLERANCES RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY OF PROVIDING A FINISH THAT WILL NOT POND WATER.
10. ANY QUANTITIES INDICATED ON THESE PLANS ARE ENGINEERS' ESTIMATES ONLY AND ARE NOT TO BE USED BY CONTRACTOR FOR BIDDING PURPOSES.
11. CONTRACTOR SHALL VERIFY EXISTING CONDITIONS IN THE FIELD AND BRING DISCREPANCIES TO THE ATTENTION OF THE SDG&E REPRESENTATIVE PRIOR TO STARTING CONSTRUCTION.
12. STANDARD DRAWINGS SHALL CONFORM TO SAN DIEGO REGIONAL STANDARD DRAWINGS (SDRSD), APRIL 2006.
13. THERE ARE ENVIRONMENTALLY SENSITIVE AREAS THROUGHOUT THE PROJECT THAT ARE NOT SHOWN ON THESE PLANS. YOU ARE RESPONSIBLE FOR KNOWING WHERE THESE AREAS ARE. REFER TO YOUR ENVIROMENTAL MAPBOOK AND ONE TOUCH FOR UP TO DATE INFORMATION.

EROSION CONTROL NOTES

1. ALL POLE & TOWER MAINTENANCE PADS TO BE DIKED AND THE DIKES MAINTAINED TO PREVENT WATER FROM FLOWING FROM THE PADS WITHOUT CAUSING EROSION, OR CONSTRUCT DRAINAGE FACILITIES TO THE SATISFACTION OF THE COUNTY DEPARTMENT OF PUBLIC WORKS THAT WILL ALLOW WATER TO DRAIN FROM THE PAD WITHOUT CAUSING EROSION.
2. TOPS OF ALL SLOPES TO BE DIKED OR TRENCHED TO PREVENT WATER FROM FLOWING OVER THE CREST OF SLOPES.
3. ALL GRADED CUT OR FILL SLOPES SHALL BE HYDROSEEDED TO PROTECT THE SLOPE FROM EROSION AND INSTABILITY IN ACCORDANCE WITH PROJECT SPECIFICATIONS.
4. FIBER ROLLS SHALL BE PLACED AT TOP, TOE AND FACE (15 FOOT INTERVALS) OF GRADED ALL CUT AND FILL SLOPES TO INTERCEPT RUNOFF AND REDUCE EROSION IN ACCORDANCE WITH PROJECT SPECIFICATIONS.

ABBREVIATIONS

(EG)	EXISTING GRADE
FG	FINISHED GRADE
TW	TOP OF WALL
BW	BOTTOM OF WALL AT FINISHED GROUND
FL	FLOW LINE
U/S	UP STREAM
D/S	DOWN STREAM
CMP	CORRUGATED METAL PIPE
RC	RELATIVE COMPACTION

LEGEND

A	A SECTION
	INDICATES NEW TOWER
	INDICATES EXISTING STEEL POLE
	WATER BAR PER DETAIL 5/4
	BROW DITCH PER DETAIL 3/3
	DIP SECTION PER DETAIL 4/4
422.1 / 415.9	VERTICAL PROFILE F.G. ELEV. ABOVE / VERTICAL PROFILE E.G. ELEV. BELOW
	NEW TRANSMISSION LINE
440	(F.G.) FINISH GRADE CONTOURS
440	(E.G.) EXISTING GRADE CONTOURS
(206.2)	EXISTING GROUND ELEVATION
TOP / TOE	FILL SLOPE 2:1 UNLESS SHOWN OTHERWISE
TOP / TOE	CUT SLOPE 2:1 UNLESS SHOWN OTHERWISE
R	RIDGE LINE
	DAYLIGHT LINE
	DIRECTION OF FLOW
CUT / FILL	CUT/FILL LINE
	CONCRETE DOWN DRAIN, SEE DETAIL 1/3
	RIPRAP ENERGY DISSIPATOR, SEE DETAIL 2/3
	CORRUGATED METAL PIPE WITH FLARED END SECTIONS, SEE PLANS FOR, PIPE SIZES, AND ENERGY DISSIPATOR. 6/4
X / XX	DETAIL LABEL DETAIL # / SHEET #

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\005-CVR02GNT.dwg CMay-20-2010 11:14

BUREAU VERITAS

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH REG. NO. 28708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

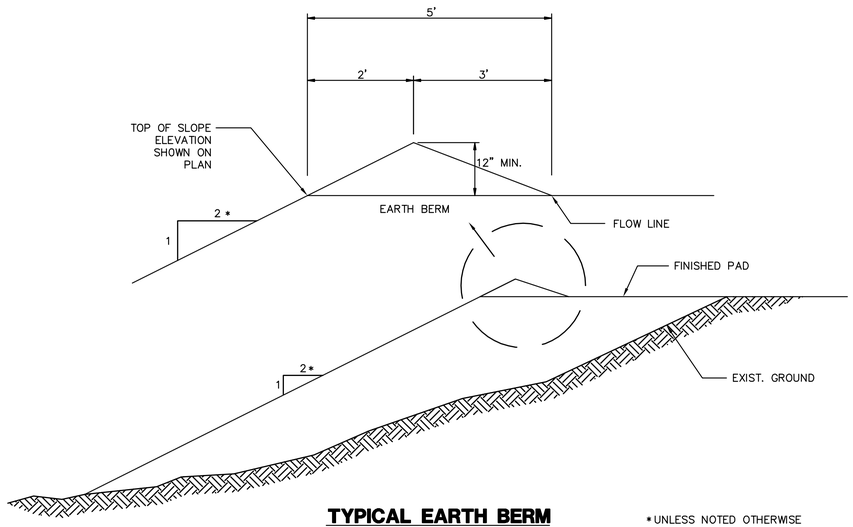
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
LEGEND & GENERAL NOTES

DRAWN BY:	DATE: -/-/-	SCALE: AS NOTED	W.O.	REV. 0	SPL-05-002
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:		PLOT SCALE: 1=1			

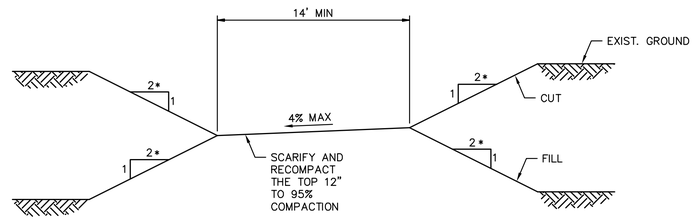


TYPICAL EARTH BERM

NTS

TO BE PLACED ON TOP OF ALL FILL SLOPES.

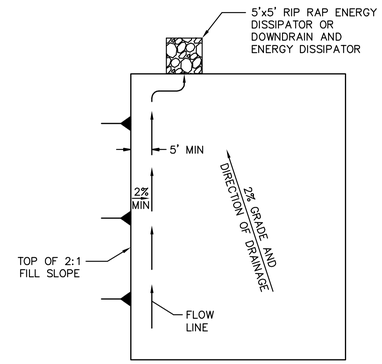
*UNLESS NOTED OTHERWISE



TYPICAL NEW ACCESS ROAD SECTION

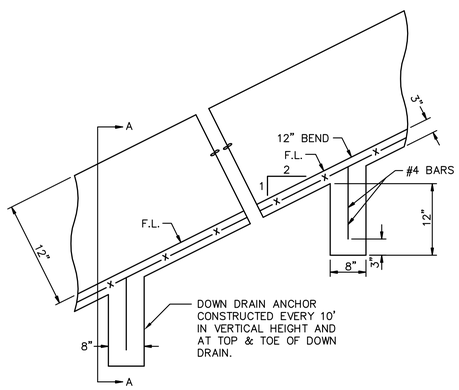
NTS

* UNLESS NOTED OTHERWISE



TYPICAL PAD DRAINAGE LAYOUT

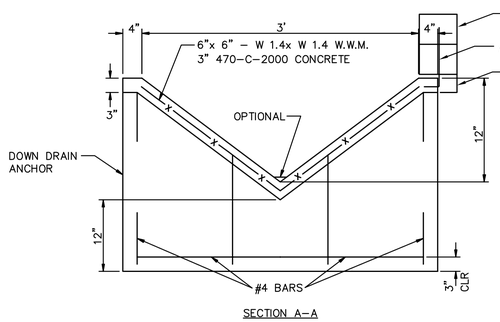
NTS



DOWN DRAIN (1/3)

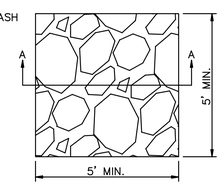
NTS

NOTE: THE LENGTH AND LOCATION OF SPLASH WALL IS SHOWN ON SITE GRADING PLAN.

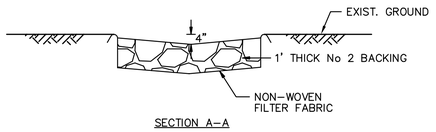


SPLASH WALL

NTS

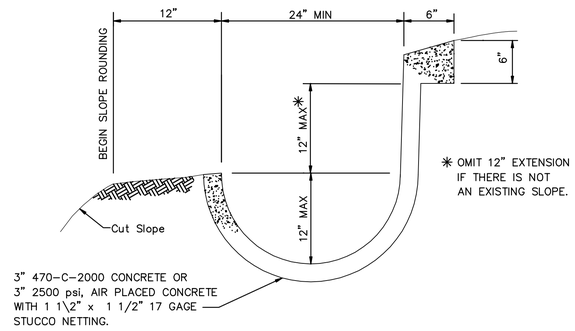


SEE SDRSD D–40, TYPE 2 FOR NOTES.



RIPRAP ENERGY DISSIPATOR (2/3)

NT



BROW AND/OR DRAINAGE DITCH (3/3)

NTS

LONGITUDINAL SLOPE OF LINED DITCH SHALL BE 2% MINIMUM.

GENERAL DETAILS

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 26708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

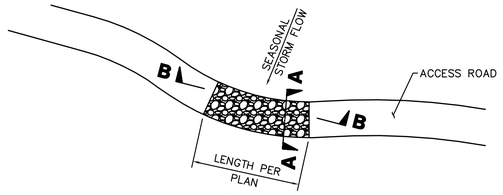
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)

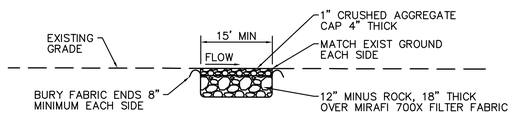
DETAIL SHEET 1 OF 2

DRAWN BY: 00	DATE:	SCALE: NTS	W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		SPL–05–003
CAD NO.:	PLOT SCALE: 1 = 1		

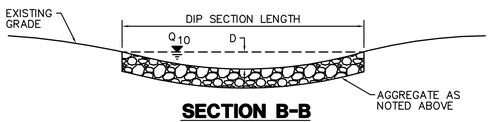
P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\005-DETAIL 1 OF 2.dwg\JJun-02-20101113



PLAN
NTS



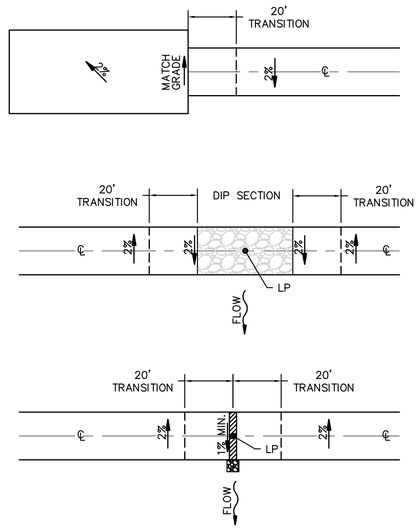
SECTION A-A
NTS



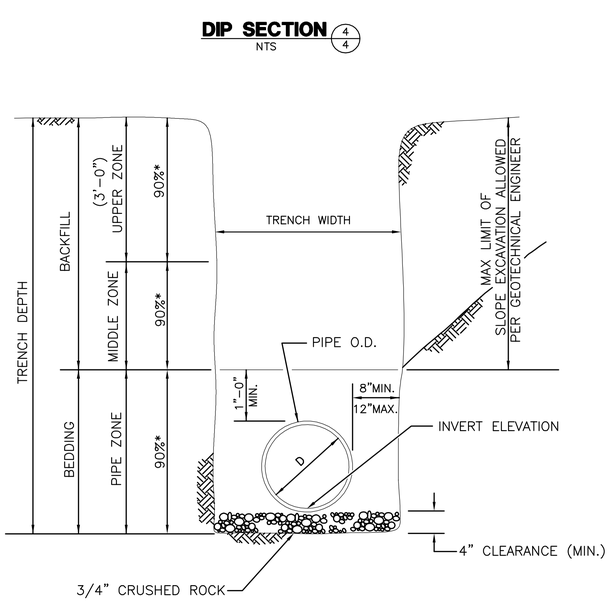
SECTION B-B
NTS

1. THE MAXIMUM WATER DEPTH, BASED ON A 10 YEAR FREQUENCY STORM. SHALL BE 10". THE DEPTH (D) IN FEET MULTIPLIED BY THE VELOCITY (V) IN FEET PER SECOND SHALL BE EQUAL TO SIX OR LESS. (DXV=6)
2. EXCAVATION AND DISPOSAL OF EXISTING MATERIALS IS TO BE INCLUDED IN CONSTRUCTION OF THE DIP SECTION.

DIP SECTION (4/4)
NTS

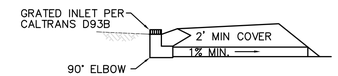


TYPICAL GRADE TRANSITIONS
NTS

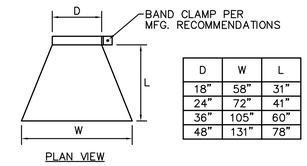


SECTION
* INDICATE MINIMUM RELATIVE COMPACTION

PIPE BEDDING AND TRENCH BACKFILL FOR STORM DRAINS (6/4)
NTS

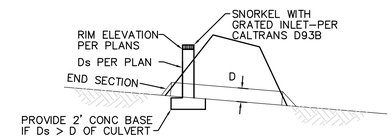


CMP DROP INLET (10/4)
NTS

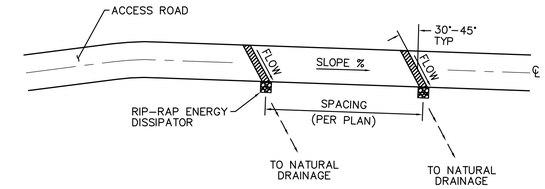


D	W	L
18"	58"	31"
24"	72"	41"
36"	105"	60"
48"	131"	78"

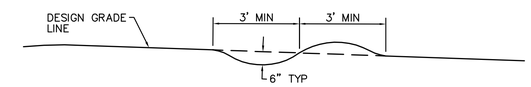
CULVERT END SECTION INLET AND/OR OUTLET
NTS



SNORKEL INLET (8/4)
NTS



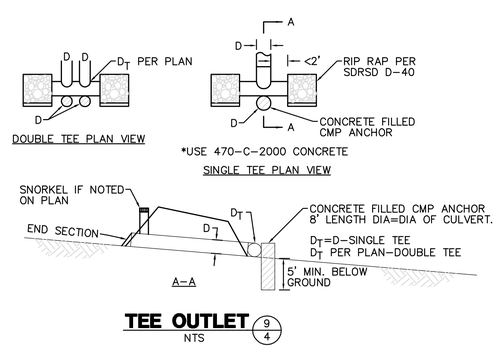
PLAN
NTS



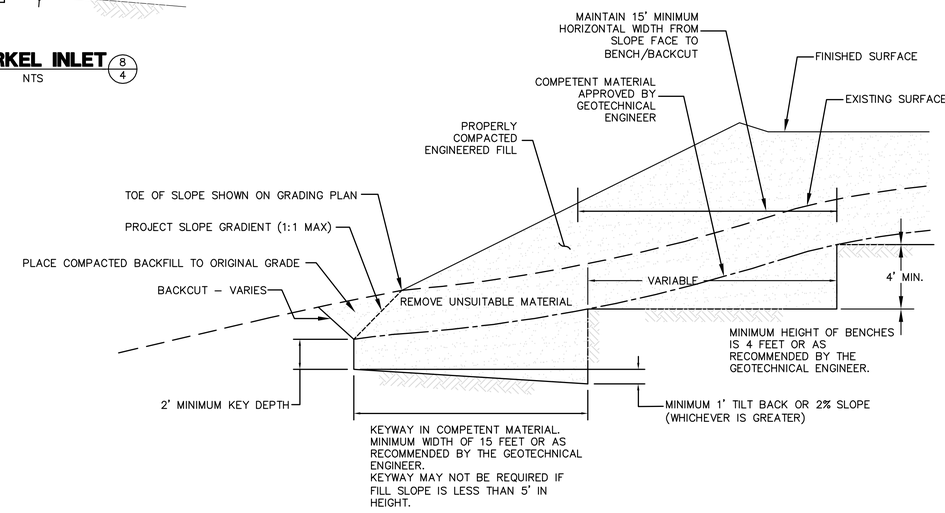
NOTE:
THE RIDGE OF EACH WATERBAR IS TO BE MAINTAINED AT AN ELEVATION AT LEAST 6 INCHES ABOVE THE ADJACENT DEPRESSION

TYPICAL SECTION
NTS

WATER BAR (5/4)
NTS



TEE OUTLET (9/4)
NTS



NOTES:
BENCHING SHALL BE REQUIRED WHEN NATURAL SLOPES ARE EQUAL TO OR STEEPER THAN 5:1 OR WHEN RECOMMENDED BY THE GEOTECHNICAL ENGINEER.

WHERE THE NATURAL SLOPE APPROACHES OR EXCEEDS THE DESIGN SLOPE RATIO, SPECIAL RECOMMENDATIONS WILL BE PROVIDED BY THE GEOTECHNICAL ENGINEER

FILL SLOPE BENCHING
NTS

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
DETAIL SHEET 2 OF 2

DRAWN BY: 00	DATE:	SCALE: NONE	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		SPL-05-004
CAD NO.:	PLOT SCALE: 1 = 1		

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\005-DETAIL 2 OF 2.dwg\1Jun-02-2010111:11

MATCH LINE SEE SECTION 4A PLANS
BEGIN SECTON 05

MATCH LINE SEE SHEET 05-P37-2-P43-1-KEY02

BRILES MADELEINE
A LIVING TRUST
12-08-08
APN 324-050-13

ERNST
KENNETH&MARIE
REVOCABLE TRUST
APN 324-050-15

URIDEL LOUIS
G&FAITH
APN 324-051-04

NAVARRO LIVING
TRUST APN
324-051-05

MOORE FAMILY
REVOCABLE LIVING TRUST
10-16-92
APN 328-020-03

WHIPPLE JAMES E
TRUST 03-06-05
APN 328-020-15

WHIPPLE JAMES E
TRUST 04-06-05
APN 328-020-16

BURTON RAY &
CHRISTINE TRUST
09-28-06
APN 328-020-19

COUNTY OF SAN
DIEGO APN
328-030-06

SCHMIDT
ARNOLD J
APN
324-051-06

SUPERIOR
GUNITE APN
328-020-14

STATE HIGHWAY 67

NAJOR RICHARD APN
328-020-11

P33-2-TSAP

P33-2

P33A-TSAP

P33A

P34-2-TSAP

P34-2

HANSON AGGREGATES
PACIFIC SOUTHWEST
IN
APN 328-020-02

GAMIERES OSCAR
R & LUZ V
APN 328-020-13

P35-2-TSAP

P35-2

P36-1-TSAP

P36-1

CLAPP IRREVOCABLE
CHILDRENS TRUST
APN 328-020-05

COUNTY OF SAN
DIEGO APN
328-020-07

HANSON AGGREGATES
PACIFIC SOUTHWEST INC
APN 326-021-01

COUNTY
OF SAN
DIEGO APN
328-021-02

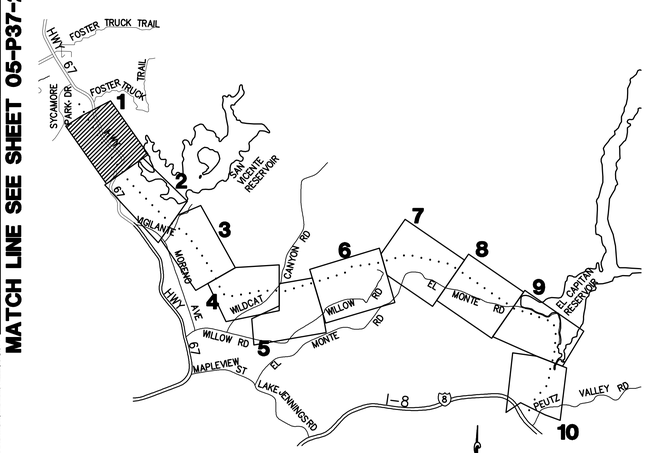
NAJOR RICHARD
APN 328-020-11

HANSON AGGREGATES
PACIFIC SOUTHWEST INC APN
328-020-08

GRAPHIC SCALE
300 0 300 600
1"=300'

LEGEND

P218-1-S1	AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
	MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
	MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
	MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
	SITE IMPROVEMENTS – SEE SHEET AS INDICATED
	PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
	CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
	PROPOSED TRANSMISSION LINES
P218–1	PROPOSED LATTICE TOWER AND TOWER #
TSAP	PROPOSED TOWER STAGING ACCESS PAD
	EXISTING 10' CONTOURS
	EXISTING 2' CONTOURS



SECTION 5
LOCATION MAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg[JMoy-20-20101:41

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
REG. 25708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

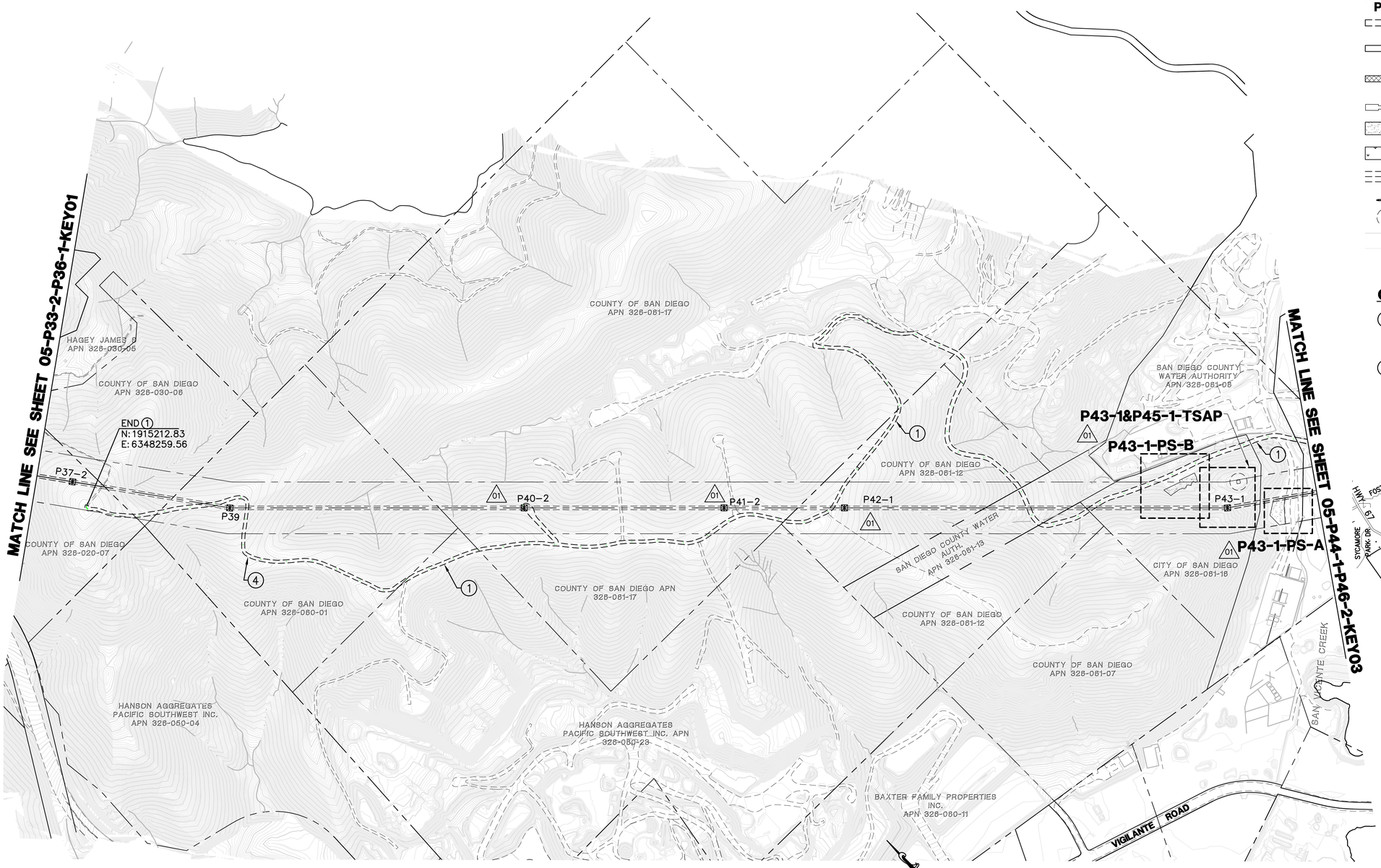
DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0	05–P33–2–P36–1–KEY01
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:		PLOT SCALE: 1 = 1			

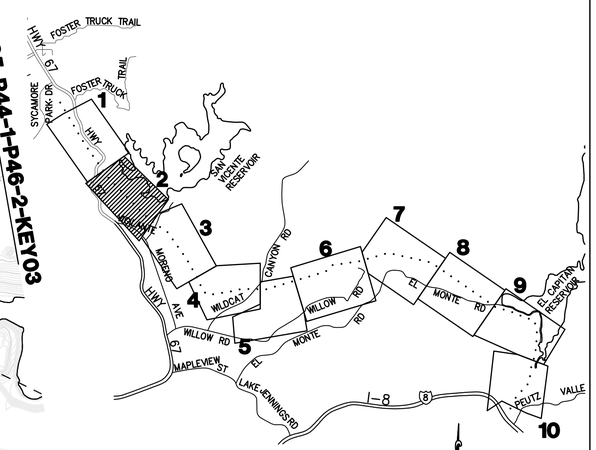
LEGEND

- P218-1-S1 — AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
- SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- P218–1 — PROPOSED LATTICE TOWER AND TOWER #
- TSAP — PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

CONSTRUCTION NOTES

1. GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.
4. REGRADE CURVE(S) TO A MINIMUM 50' RADIUS AND 20' WIDTH.





SECTION 5 LOCATION MAP

QUANTITIES:

1 LENGTH OF ACCESS ROAD: 10,165 LF

GRAPHIC SCALE

300 0 300 600

1"=300'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg\JAug-23-2010\4:31

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:
01	REMOVE SHEET P40–2–PS	8/23/10	MM	MB
01	REMOVE SHEET P41–2–PS	8/23/10	MM	MB
01	REMOVE SHEET P42–2–PS	8/23/10	MM	MB
01	ADD SHEET P43–1–PS–A	8/23/10	MM	MB
01	ADD SHEET P43–1–PS–B	8/23/10	MM	MB

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)

KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

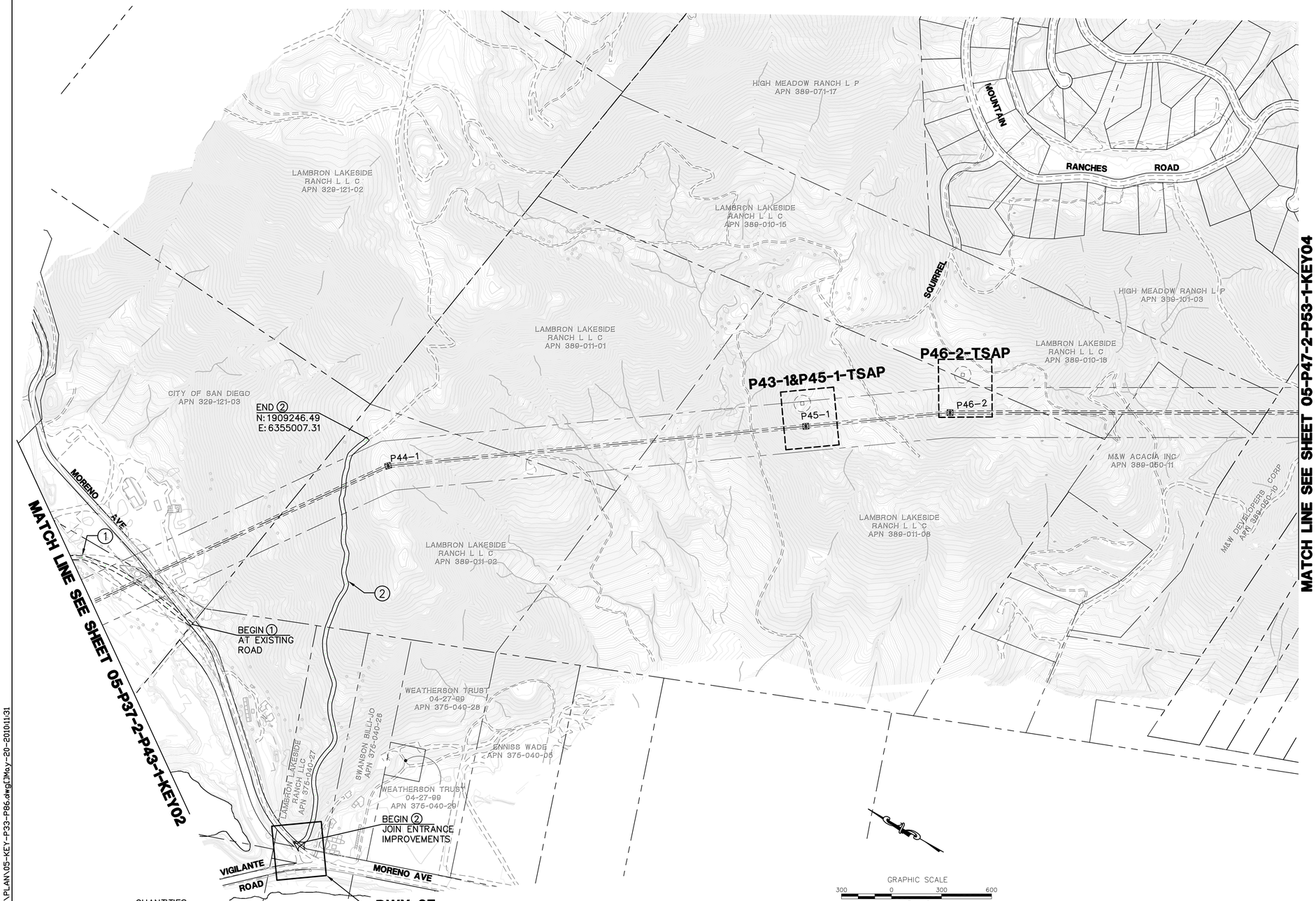
DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:		05–P37–2–P43–1–KEY02	
CAD NO.:	PLOT SCALE: 1 = 1			

LEGEND

P218-1-S1	AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
	MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
	MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
	MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
	SITE IMPROVEMENTS – SEE SHEET AS INDICATED
	PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
	CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
	PROPOSED TRANSMISSION LINES
P218–1	PROPOSED LATTICE TOWER AND TOWER #
TSAP	PROPOSED TOWER STAGING ACCESS PAD
	EXISTING 10' CONTOURS
	EXISTING 2' CONTOURS

CONSTRUCTION NOTES

1. GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.
2. IN ADDITION TO CONSTRUCTION NOTE #1, WIDEN ROAD TO 12' MINIMUM WIDTH, MAXIMUM CROSS SLOPE = 8%. CLEAR AND GRUB EXISTING BRUSH AS NECESSARY. ALL OTHER REQUIREMENTS FROM NOTE #1 SHALL APPLY.

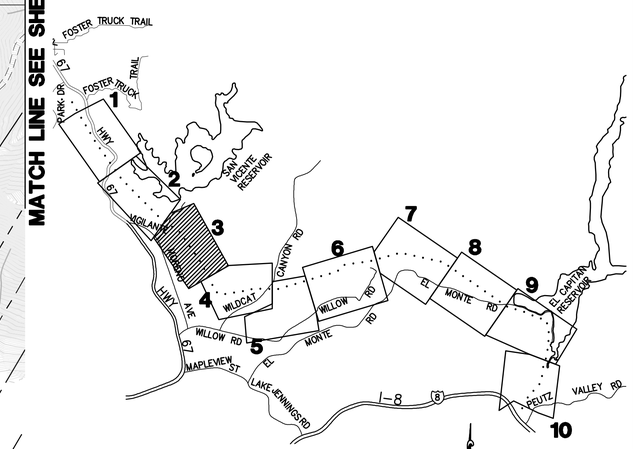


QUANTITIES:

① LENGTH OF ACCESS ROAD: 845 LF

② LENGTH OF ACCESS ROAD: 2,582 LF

DWY-07
(PERMIT 05-8)



SECTION 5
LOCATION MAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg\Moy-20-2010\11:31

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
REG. 26708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)

KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

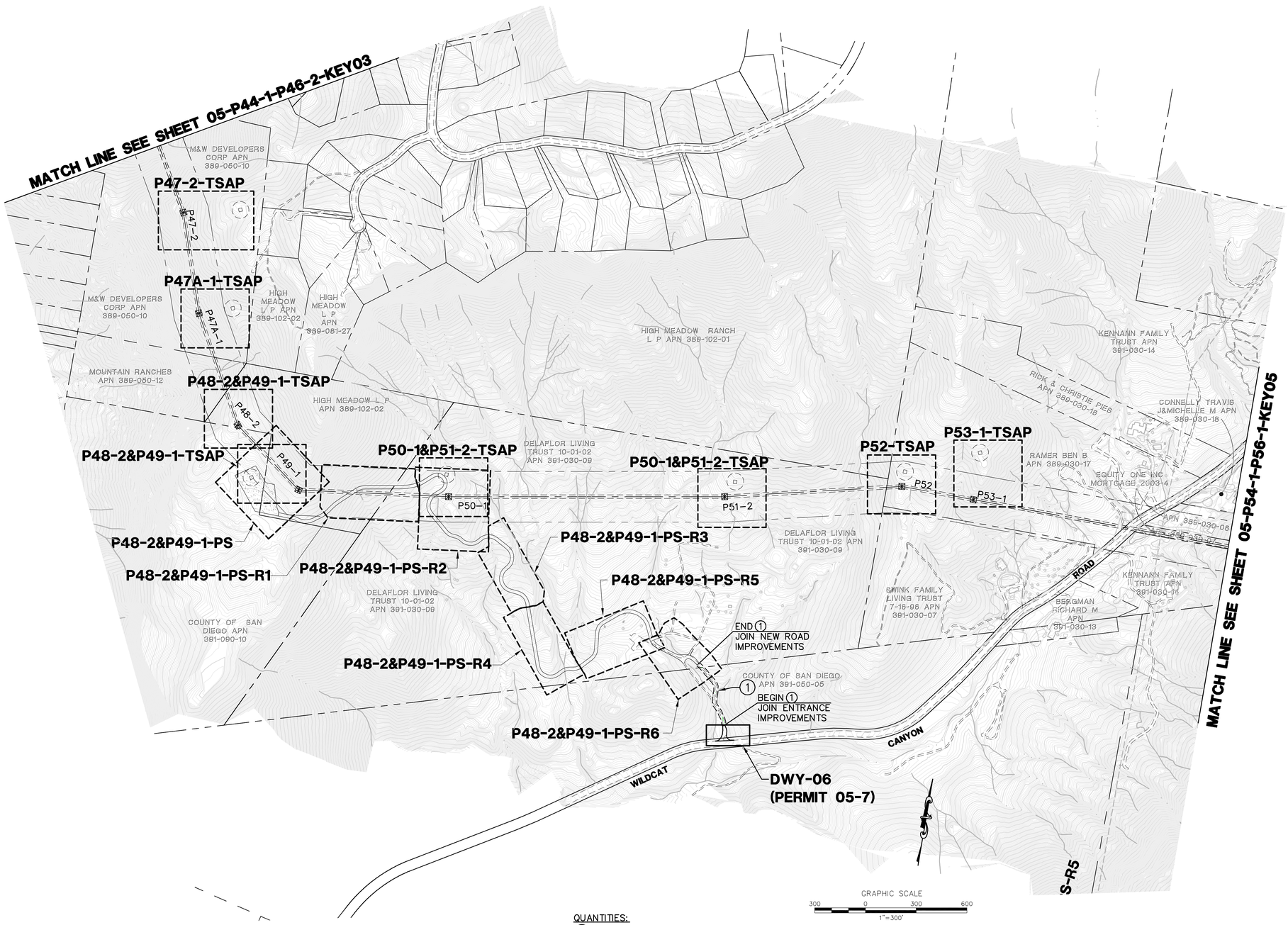
DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0	05–P44–1–P46–2–KEY03
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:		PLOT SCALE: 1 = 1			

LEGEND

- P218-1-S1 — AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
- SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- P218–1 — PROPOSED LATTICE TOWER AND TOWER #
- TSAP — PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

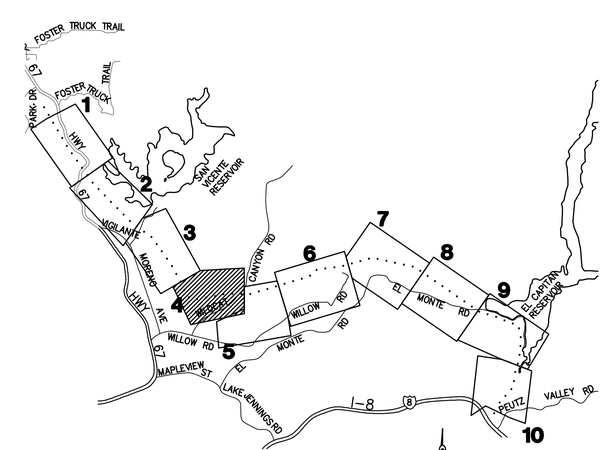
CONSTRUCTION NOTES

1. GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.



QUANTITIES:

1 LENGTH OF ACCESS ROAD: 416 LF



SECTION 5 LOCATION MAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg\Mkay-20-2010\1:30

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

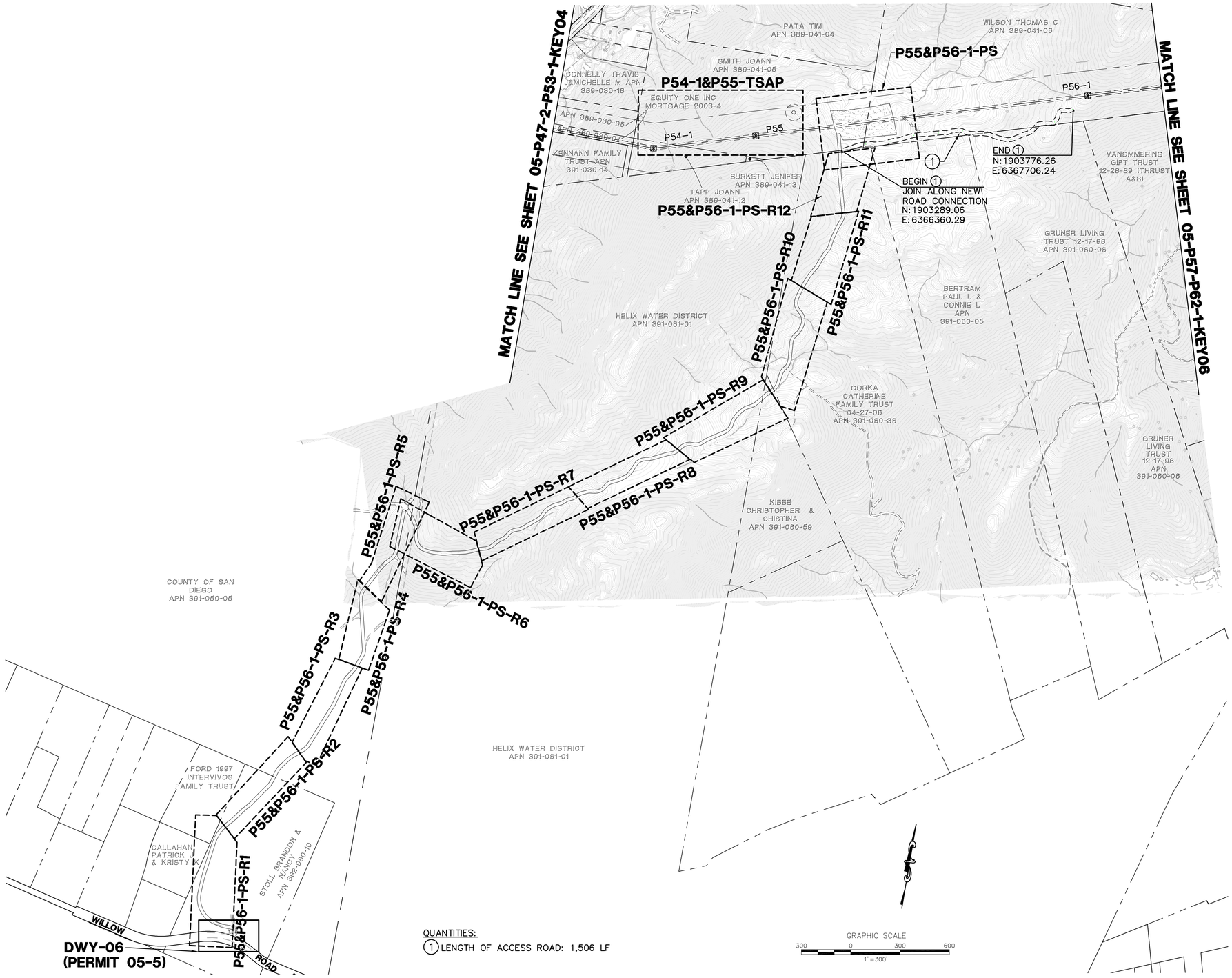
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0
CHECKED BY:	DATE:		05–P47–2–P53–1–KEY04	
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		



LEGEND

- P218-1-S1 — AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
- SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- P218–1 — PROPOSED LATTICE TOWER AND TOWER #
- TSAP — PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

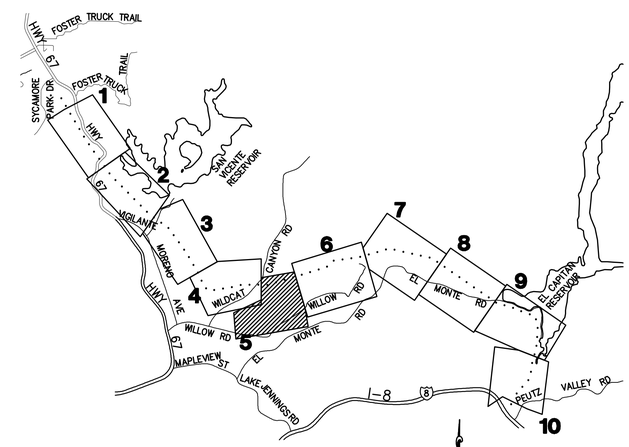
CONSTRUCTION NOTES

1. GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.

QUANTITIES:

1 LENGTH OF ACCESS ROAD: 1,506 LF

GRAPHIC SCALE
300 0 300 600
1"=300'



SECTION 5 LOCATION MAP

P:\16919 SDG&E SPL\CAD\05\dwg\PLAN\05-KEY-P33-P86.dwg[]May-20-2010|12:29

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

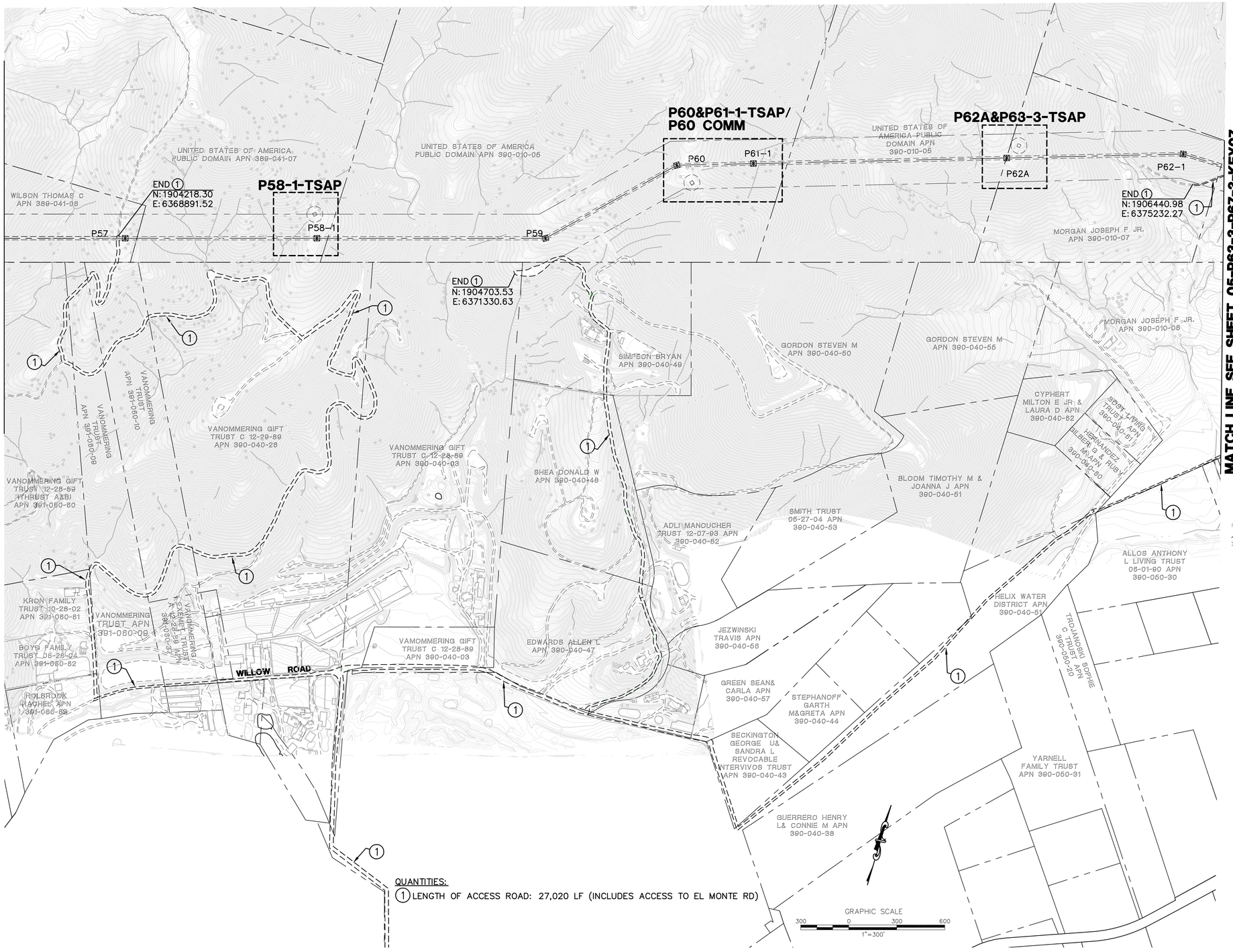
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			05–P54–1–P56–1–KEY05
CAD NO.:	PLOT SCALE: 1 = 1			

MATCH LINE SEE SHEET 05-P54-1-P56-1-KEY05

MATCH LINE SEE SHEET 05-P63-3-P67-3-KEY07



LEGEND

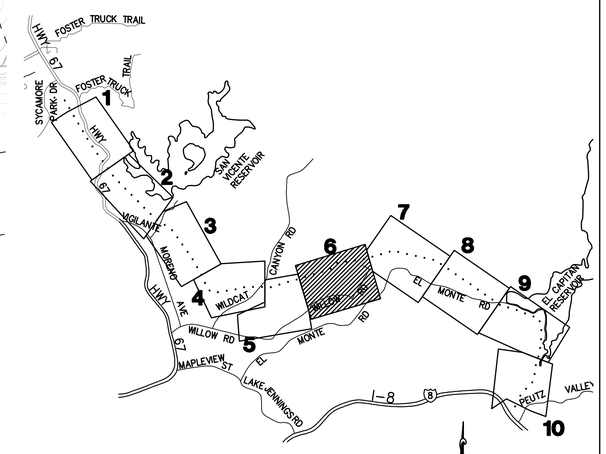
P218-1-S1	AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
	MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
	MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
	MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
	SITE IMPROVEMENTS – SEE SHEET AS INDICATED
	PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
	CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
	PROPOSED TRANSMISSION LINES
P218–1	PROPOSED LATTICE TOWER AND TOWER #
TSAP	PROPOSED TOWER STAGING ACCESS PAD
	EXISTING 10' CONTOURS
	EXISTING 2' CONTOURS

CONSTRUCTION NOTES

1. GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.

QUANTITIES:

1 LENGTH OF ACCESS ROAD: 27,020 LF (INCLUDES ACCESS TO EL MONTE RD)



SECTION 5
LOCATION MAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg[]May-20-2010\127

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

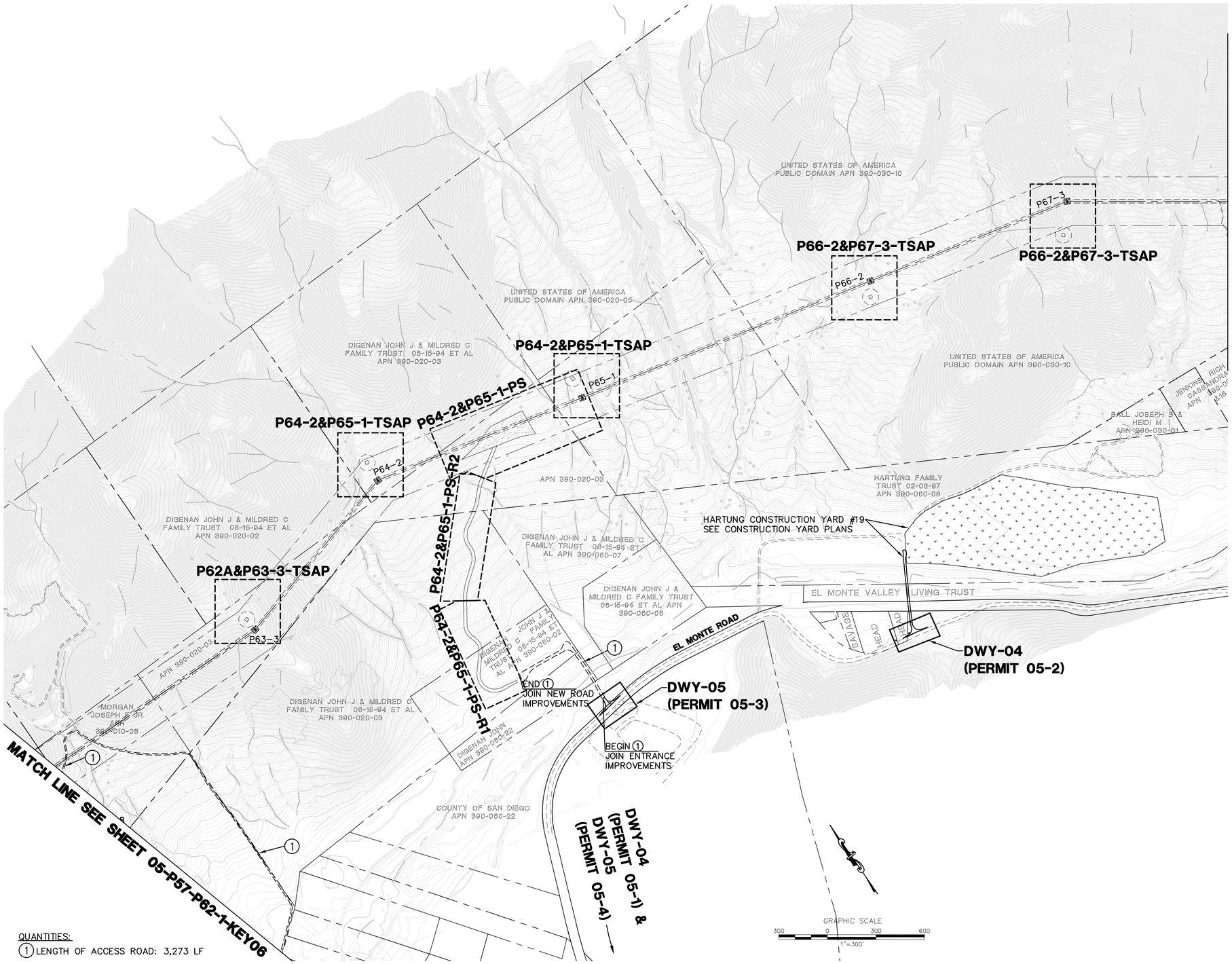
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)

KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05–P57–P62–1–KEY06

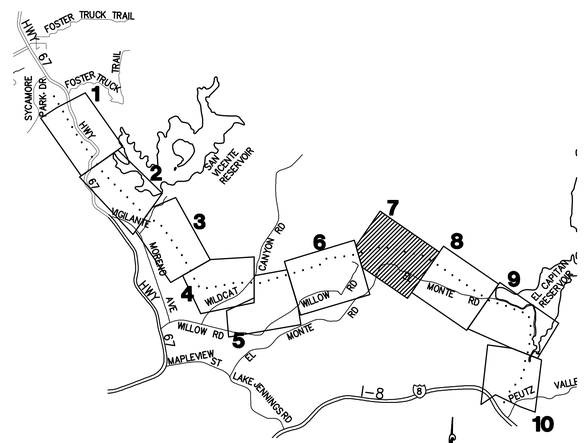


LEGEND

- AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX) — P218-1-S1
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
- SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- P218–1 — PROPOSED LATTICE TOWER AND TOWER #
- TSAP — PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

CONSTRUCTION NOTES

1. GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.



SECTION 5 LOCATION MAP

QUANTITIES:

1. LENGTH OF ACCESS ROAD: 3,273 LF

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg[]Mkey-20-20101138

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER — STEPHEN K. SMITH — REG. NO. 29708 — Exp. 3-31-11 — CIVIL — STATE OF CALIFORNIA

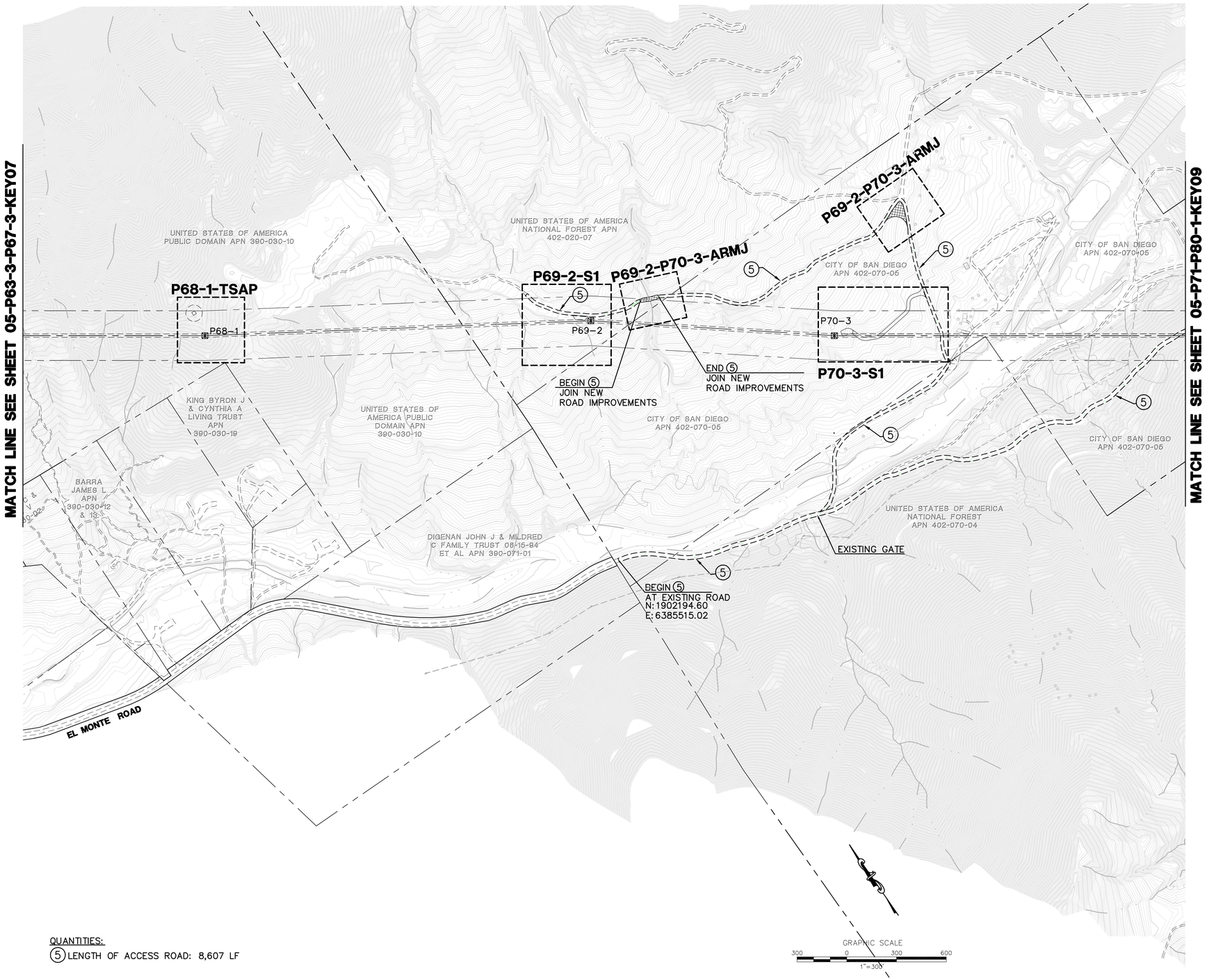
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05–P63–3–P67–3–KEY07
CAD NO.:	PLOT SCALE: 1 = 1		

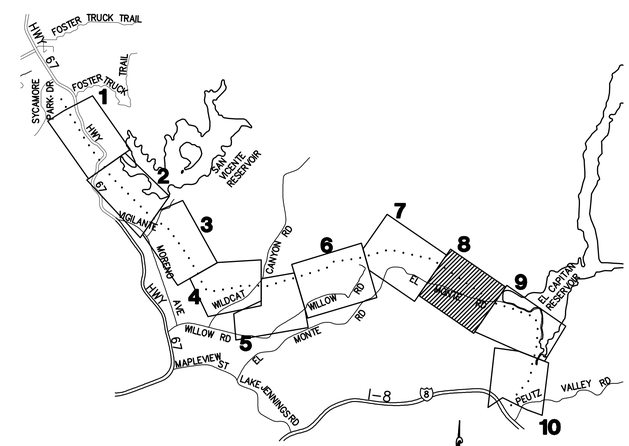


LEGEND

- AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX) — P218-1-S1
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
- SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- P218–1 PROPOSED LATTICE TOWER AND TOWER #
- TSAP PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

CONSTRUCTION NOTES

(5) EXISTING ROAD TO REMAIN AS IS.



SECTION 5 LOCATION MAP

QUANTITIES:

(5) LENGTH OF ACCESS ROAD: 8,607 LF

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg LMay-20-2010 11:36

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER — STEPHEN K. SMITH — RCE 26708 — Exp. 3-31-11 — CIVIL — STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)

KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0	05–P68–1–P70–3–KEY08
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:	PLOT SCALE: 1 = 1				

MATCH LINE SEE SHEET 05-P68-1-P70-3-KEY08

END (1)
N: 1900541.47
E: 6393554.23

BEGIN (1)
AT EXISTING
ROAD

EL CAPITAN
RESERVIOR

CITY OF SAN DIEGO
APN 402-080-01

CITY OF SAN
DIEGO APN
402-080-01

EL MONTE ROAD

P75-1-PS-A&B

P75-1&P76-1-TSAP

P75-1-PS-A&B

P75-1

P76-1

P74-2

P73-2

P72-2

P71

P77

P78-2

P79-1

P80

CITY OF SAN DIEGO
APN 402-080-08

EL CAPITAN
BOAT LAUNCH

UNITED STATES OF
AMERICA NATIONAL FOREST
APN 402-080-07

P73-2-TSAP

P72-2-TSAP

P78-2&P80-1-TSAP

UNITED STATES OF AMERICA
NATIONAL FOREST
APN 402-070-04

CITY OF SAN DIEGO
APN 402-150-02

END (5)
BEGIN (1)
N: 1896116.52
E: 6393836.93

CITY OF SAN DIEGO
APN 402-150-02

P78-2&P80-1-TSAP

MATCH LINE SEE SHEET 05-P81-1-P86-KEY10

GRAPHIC SCALE
300 0 300 600
1"=300'

QUANTITIES:
(1) LENGTH OF ACCESS ROAD: 926 LF
(5) LENGTH OF ACCESS ROAD: 7,939 LF

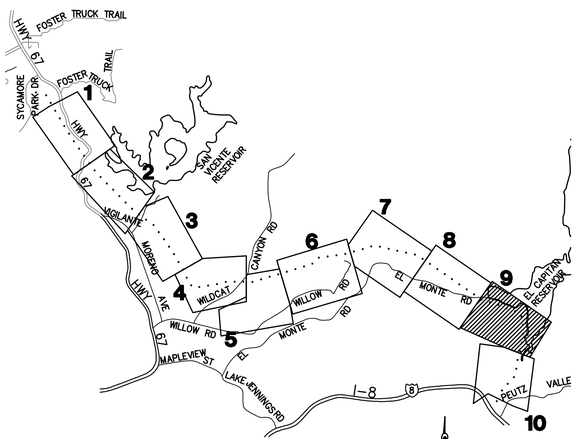
LEGEND

- P218-1-S1 — AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
- SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- P218–1 — PROPOSED LATTICE TOWER AND TOWER #
- TSAP — PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

CONSTRUCTION NOTES

(1) GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.

(5) EXISTING ROAD TO REMAIN AS IS.



SECTION 5
LOCATION MAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg□May-20-2010 11:35

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
REG. 25708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

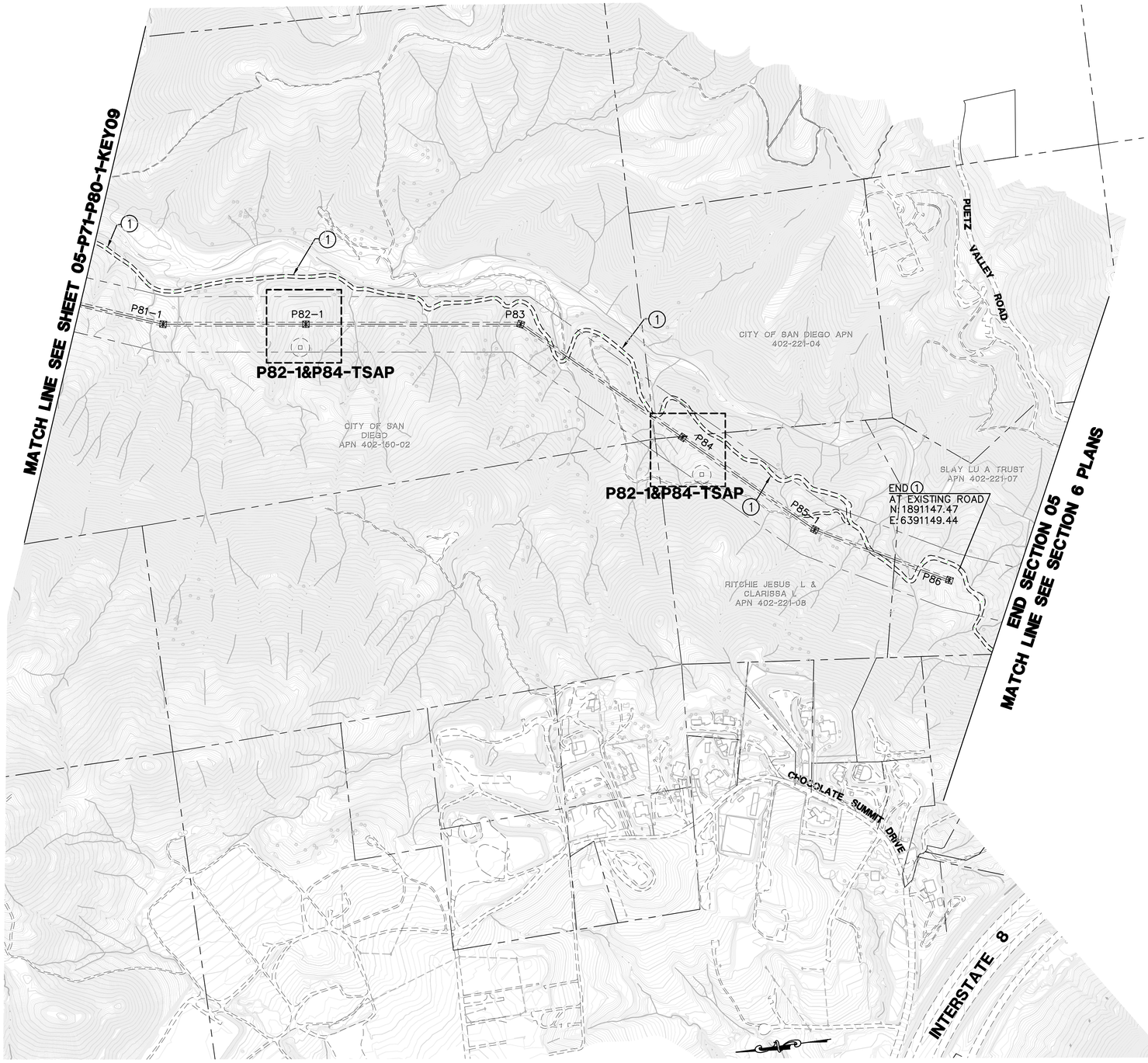
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0	05–P71–P80–1–KEY09
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:	PLOT SCALE: 1 = 1				

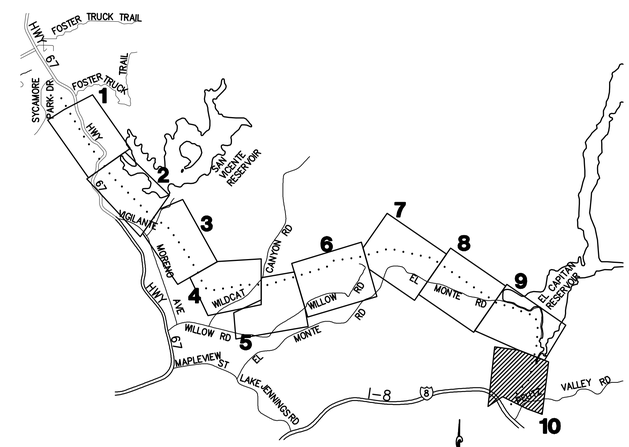


LEGEND

- P218-1-S1 — AREA OF ENLARGED PLAN WITH SHEET NAME REFERENCE (ACTUAL SHEET NAMES INCLUDE THE SECTION # AS A PREFIX)
- MINOR ROAD MAINTENANCE – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MINOR ROAD IMPROVEMENTS – SEE PLAN AND CONSTRUCTION NOTES HEREON
- MAJOR ROAD IMPROVEMENTS – SEE SHEET AS INDICATED
- SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- PULL SITE IMPROVEMENTS – SEE SHEET AS INDICATED
- CONSTRUCTION YARD IMPROVEMENTS – SEE CONSTRUCTION YARD PLANS
- PROPOSED TRANSMISSION LINES
- P218–1 — PROPOSED LATTICE TOWER AND TOWER #
- TSAP — PROPOSED TOWER STAGING ACCESS PAD
- EXISTING 10' CONTOURS
- EXISTING 2' CONTOURS

CONSTRUCTION NOTES

1. GRADE EXISTING ROAD TO BE SMOOTH AND UNIFORM. REMOVE ANY RIDGES AND FILL IN RUTS. EXCESS MATERIAL SHALL BE PLACED IN ROADWAY OR REMOVED FROM SITE. DO NOT BLOCK EXISTING DRAINAGE OUTLETS. REBUILD EXISTING WATER BARS.



SECTION 5
LOCATION MAP

QUANTITIES:

1 LENGTH OF ACCESS ROAD: 5989 LF

GRAPHIC SCALE
300 0 300 600
1"=300'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\05-KEY-P33-P86.dwg[]May-20-2010|1:33

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH REG. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

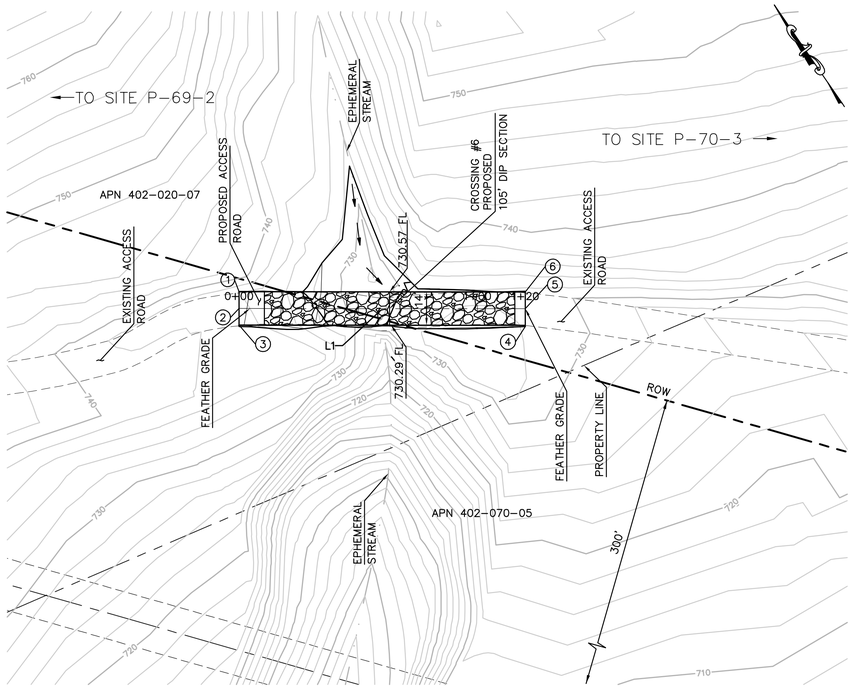
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)
KEY MAP + MINOR ACCESS ROAD IMPROVEMENTS

DRAWN BY: LJ	DATE:	SCALE: 1=300	W.O.	REV. 0	05–P81–1–P86–KEY10
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:	PLOT SCALE: 1 = 1				



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		120.00	S67°42'17"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1903415.09	6386512.64	(736.55)	EG
2	1903408.61	6386509.98	(736.41)	CL/EG
3	1903402.14	6386507.33	(736.27)	EG
4	1903356.19	6386618.18	(731.89)	EG
5	1903363.09	6386621.01	(731.57)	CL/EG
6	1903369.57	6386623.67	(731.71)	EG

LENGTH OF ACCESS ROAD: 120 LF

ACCESS ROAD TO TOWER P-69-2 PLAN

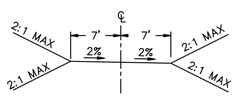
SCALE: 1" = 30'

GRAPHIC SCALE 30 0 30 60 1"=30'

EARTH QUANTITIES:
CUT: 29 CY
FILL: 51 CY
NET: 22 CY

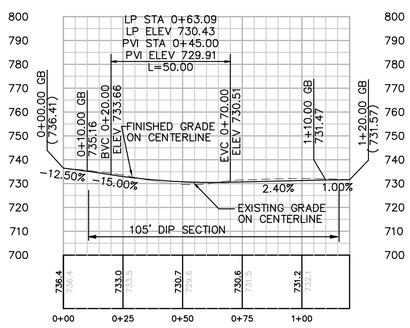
DISTURBED AREA:
ROAD: 2792 SF

QUANTITIES:
DIP SECTION: 1470 SF
DIP SECTION EXPORT: 100 SF



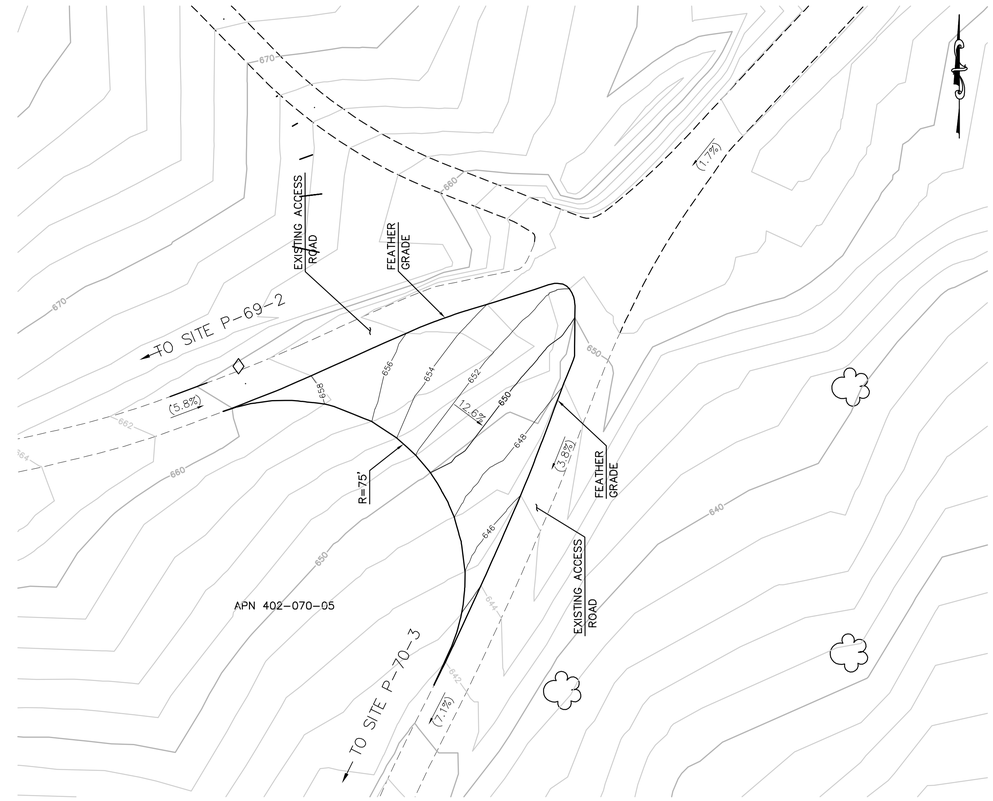
TYPICAL ACCESS ROAD CROSS SECTION

STA 0+00 TO STA 1+20



PROFILE: ACCESS ROAD TO TOWER P-69-2 PLAN

HORIZ. & VERT. SCALE: 1" = 30'



ACCESS ROAD TO TOWER P-70-3 PLAN

SCALE: 1" = 30'

GRAPHIC SCALE 30 0 30 60 1"=30'

EARTH QUANTITIES:
CUT: 307 CY
FILL: 1 CY
NET: 306 CY

DISTURBED AREA:
ROAD: 6771 SF

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH REG. 29708 Exp. 3-31-17 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

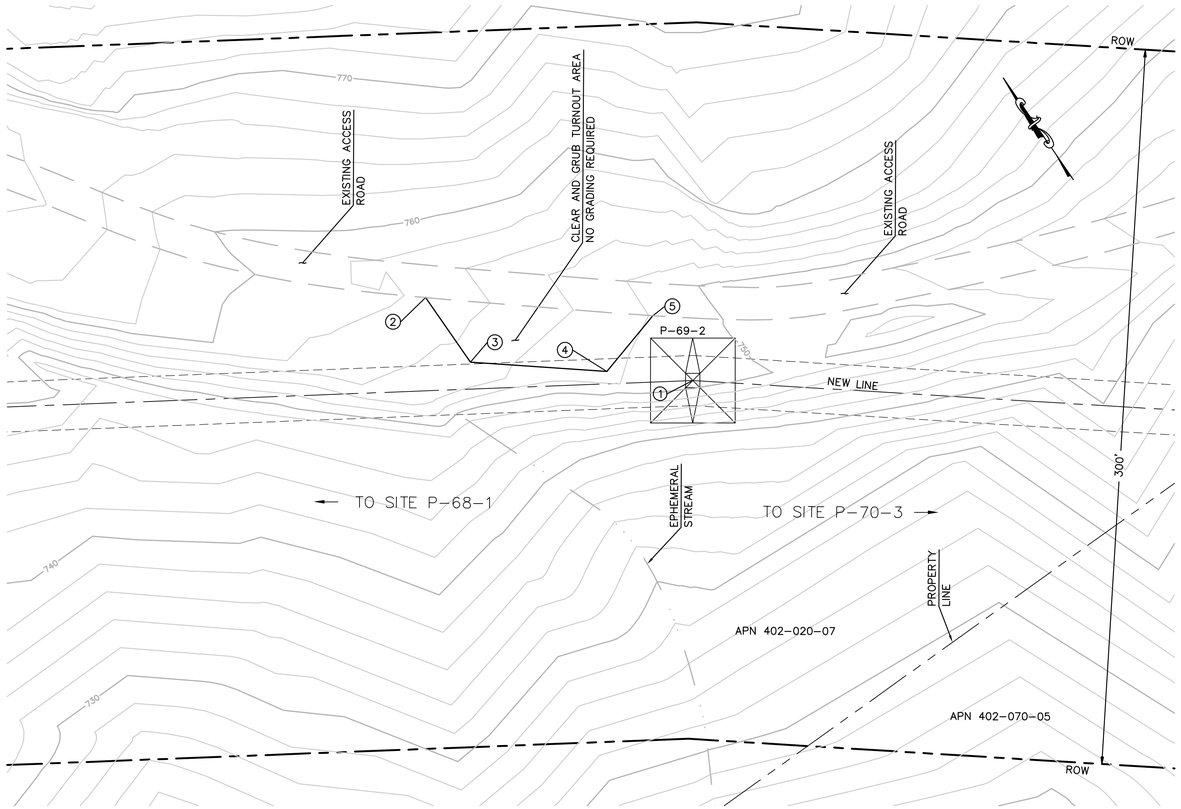
SPL-05 (LINK 5)

OFF-SITE ROAD DESIGN MINOR IMPROVEMENTS

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

05-P69-2-P70-3-ARMJ

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\005-MAJ-P69-P70.dwg□May-20-2010 1143



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1903477.53	6386199.38	(749.96)	P-69-2
2	1903569.83	6386127.12		EG
3	1903536.88	6386127.13		EG
4	1903501.16	6386171.99		EG
5	1903509.37	6386201.09		EG

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-69-2	230 KV CXSD Dead-End Lattice Tower	5.70	184.50

DISTURBED AREA:
ROAD: 4,800 SF

TOWER P-69-2 PLAN

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\005-P69-2-S1.dwg|DMoy-20-2010|1:44

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29106
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

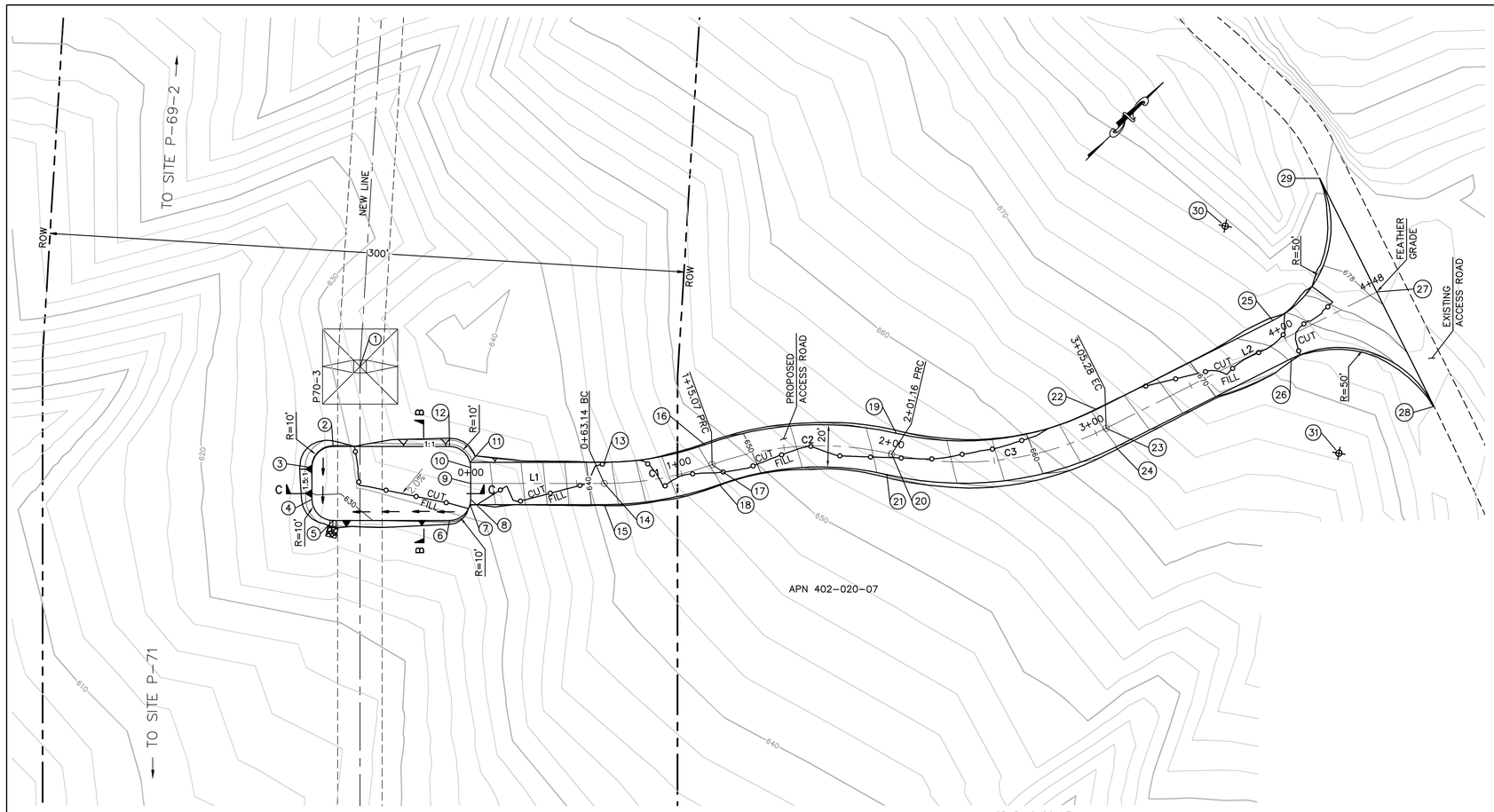
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

SITE P-69-2

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

05-P-69-2-S1



STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-70-3	230 KV CXSD Dead-End Lattice Tower	-3.50	172.50

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1902567.84	6387355.66	(635.71)	P-70-3
2	1902535.87	6387379.44	630.30	FG
3	1902521.96	6387381.97	630.16	FG
4	1902513.42	6387394.30	629.96	FG
5	1902515.95	6387408.21	629.76	FG
6	1902561.16	6387439.52	630.47	FG
7	1902573.39	6387438.87	630.63	FG
8	1902575.08	6387436.99	630.70	FG
9	1902579.35	6387430.83	630.79	CL
10	1902583.62	6387424.66	630.88	FG
11	1902584.78	6387422.43	630.87	FG
12	1902581.09	6387410.75	631.02	FG
13	1902636.95	6387458.55	641.40	BC
14	1902631.26	6387466.77	641.20	CL/BC
15	1902625.56	6387474.99	641.00	BC
16	1902680.73	6387478.76	648.32	PRC

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
17	1902678.17	6387488.43	648.12	CL/PRC
18	1902675.60	6387498.09	647.92	PRC
19	1902758.13	6387525.83	654.64	PRC
20	1902750.73	6387532.55	654.44	CL/PRC
21	1902743.32	6387539.28	654.24	PRC
22	1902842.32	6387570.34	664.32	EC
23	1902840.93	6387580.25	664.12	CL/EC
24	1902839.55	6387590.15	663.92	EC
25	1902934.64	6387583.29	672.58	BC
26	1902931.58	6387603.05	672.04	BC
27	1902982.65	6387600.11	(678.45)	CL
28	1902974.09	6387659.95	(673.95)	EC
29	1902991.11	6387540.63	(680.20)	EC
30	1902941.59	6387533.77		RP
31	1902924.63	6387652.57		RP

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	150.00	51.93	19°50'07"
C2	150.00	86.10	32°53'14"
C3	150.00	104.12	39°46'10"
L1		63.14	N34°41'54"E
L2		143.11	N7°58'50"E

GRAPHIC SCALE
30 0 30 60
1"=30'

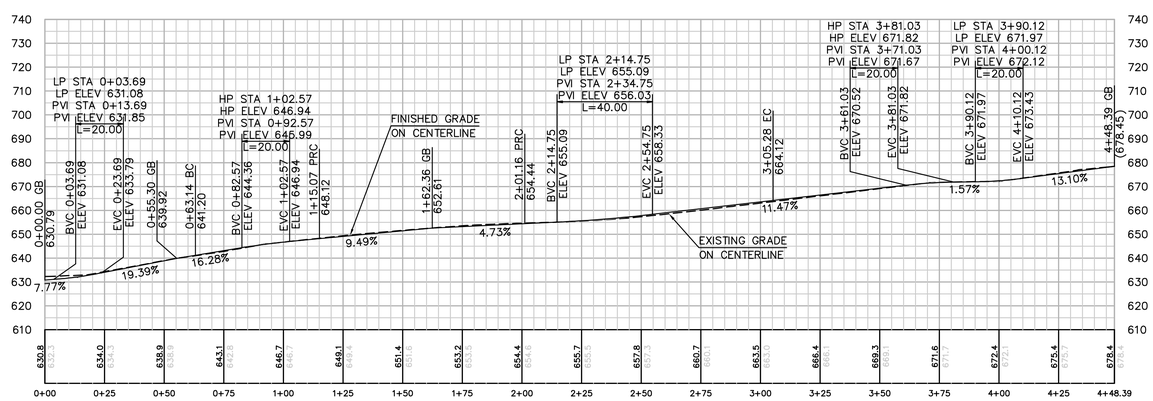
EARTH QUANTITIES:
CUT: 176 CY.
FILL: 148 CY.
NET: 28 CY.

DISTURBED AREA:
PAD: 3,183 SF
ROAD: 10,891 SF
TOTAL: 14,074 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 3 LF
LENGTH OF ACCESS ROAD: 448 LF

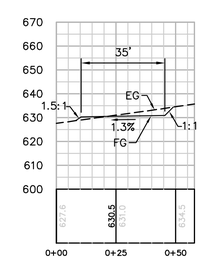
TOWER P-70-3 PLAN

SCALE: 1" = 30'



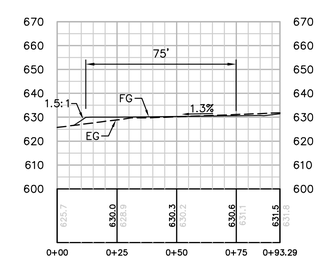
PROFILE: ACCESS ROAD TO TOWER P-70-3

HORIZ. & VERT. SCALE: 1" = 30'



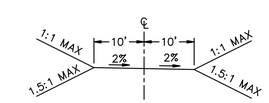
SECTION B-B

HORIZ. & VERT. SCALE: 1" = 30'



SECTION C-C

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION

STA 0+00.00 TO 4+48.39

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp.3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

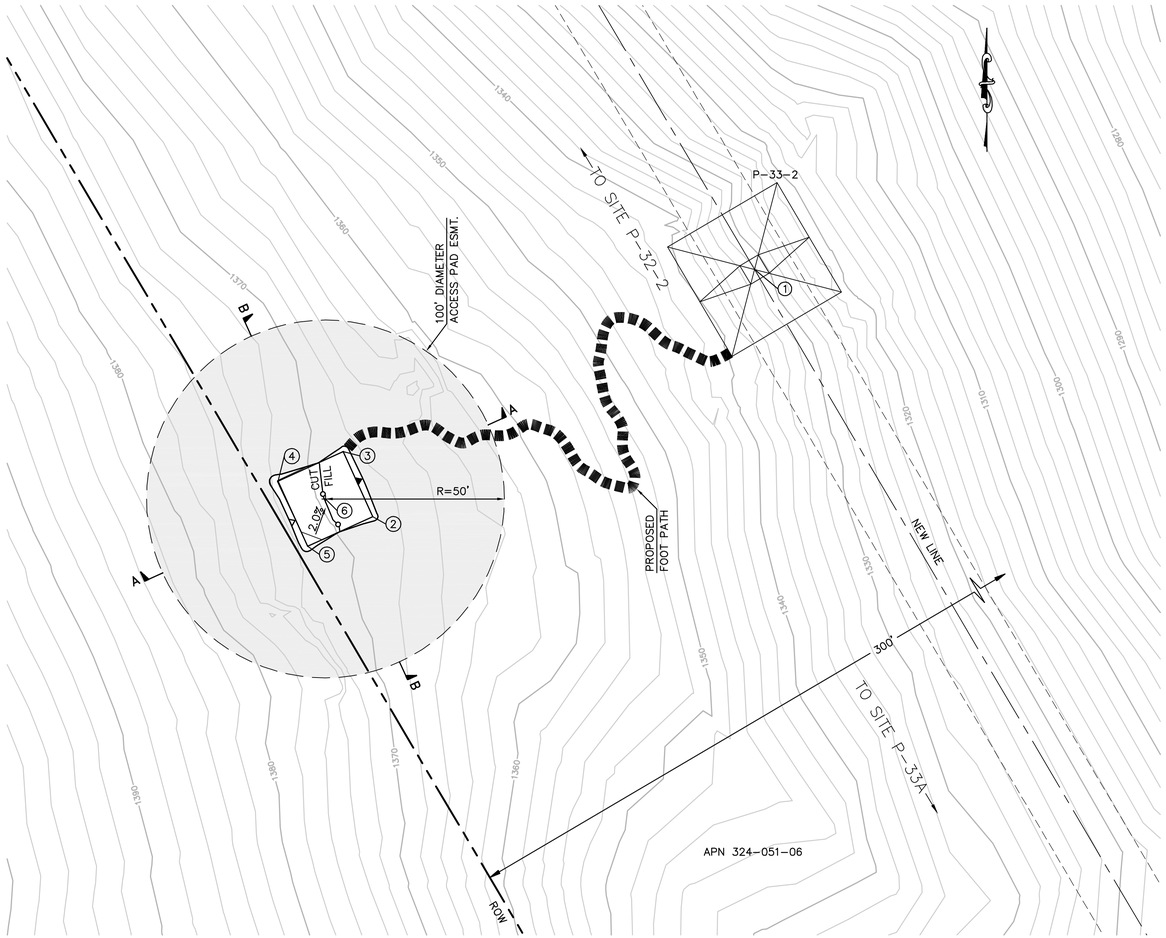
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
SITE P-70-3

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

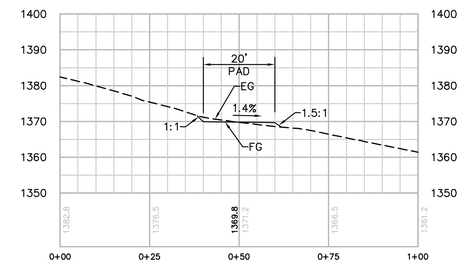
005-P-70-3-S1

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\005-P70-3-S1.dwg[]Jun-02-20101048



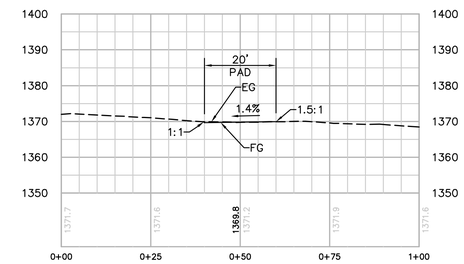
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1921327.81	6344446.11	(1332.28)	P-33-2
2	1921258.72	6344339.43	1369.78	FG
3	1921276.92	6344331.15	1369.50	FG
4	1921268.65	6344312.95	1369.78	FG
5	1921250.44	6344321.22	1370.06	FG
6	1921263.68	6344326.19		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-33-2	230 KV CXPT Tangent Lattice Tower	0.00	145.00



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:

CUT: 6 CY
FILL: 4 CY
NET: 2 CY

DISTURBED AREA:

PAD: 506 SF
TOTAL: 506 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-33-2

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 20 40

1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P33-2 TSAP.dwg[]May-20-2010|6:41

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 25708 Exp.3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

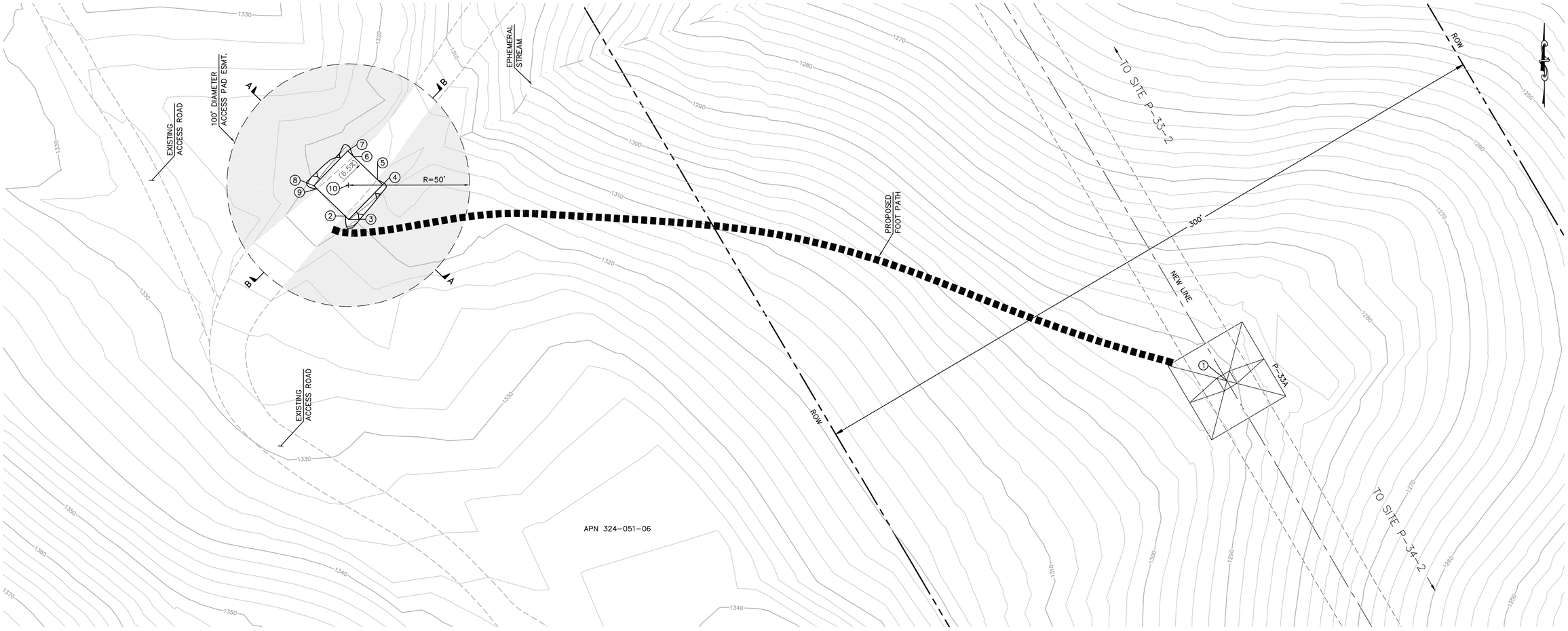
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-33-2

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:		05-P33-2-TSAP	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			



EARTH QUANTITIES:
CUT: 4 CY
FILL: 0 CY
NET: 4 CY

DISTURBED AREA:
PAD: 533 SF
TOTAL: 553 SF

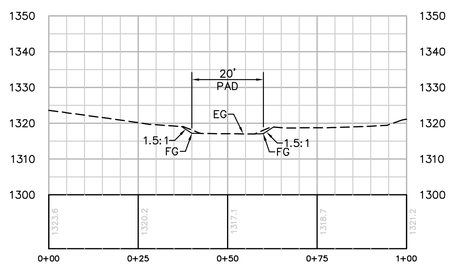
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-33A

(THIS IS NOT A HELIPORT)

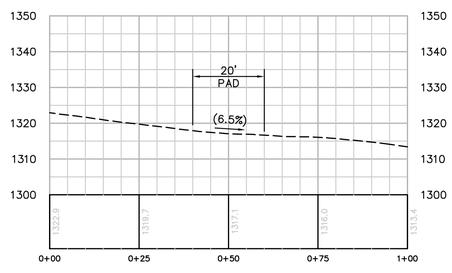
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1920469.66	6344951.71	(1290.68)	P-33A
2	1920537.58	6344588.46	(1317.86)	EG
3	1920536.14	6344589.94	1317.90	FG
4	1920550.50	6344603.86	1316.46	FG
5	1920552.58	6344601.72	(1316.41)	EG
6	1920562.06	6344591.93	(1316.82)	EG
7	1920564.42	6344589.50	1316.89	FG
8	1920550.06	6344575.58	1318.03	FG
9	1920548.79	6344576.89	(1318.00)	EG
10	1920550.28	6344589.72		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-33A	230 KV CXPT Tangent Lattice Tower	0.00	145.00

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P33A TSAP.dwg[Mkay-20-201017]41

BUREAU VERITAS

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

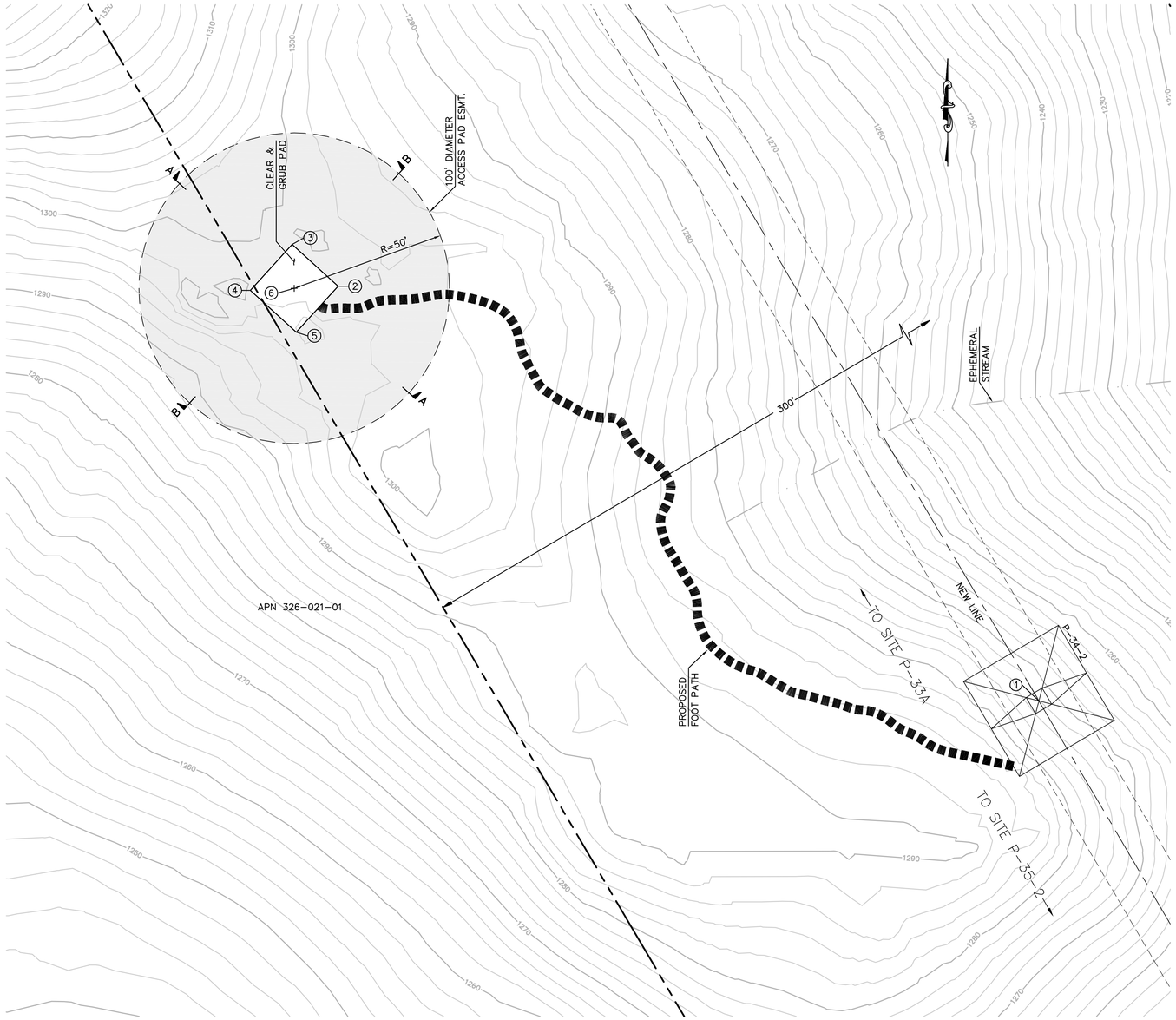
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

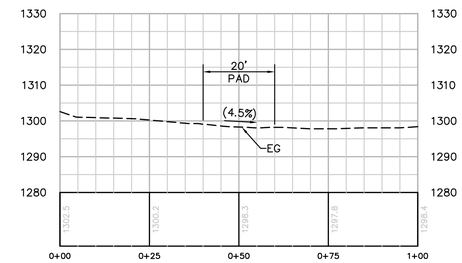
SPL-05 (LINK 5)
TOWER STAGING/ACCESS PAD FOR SITE P-33A

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05-P33A-TSAP
CAD NO.:	PLOT SCALE: 1 = 1		

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1919401.61	6345580.98	(1272.10)	P-34-2
2	1919535.11	6345355.34	(1298.73)	EG
3	1919548.58	6345340.56	(1299.30)	EG
4	1919533.80	6345327.09	(1299.15)	EG
5	1919520.33	6345341.87	(1297.22)	EG
6	1919534.45	6345341.21		RP

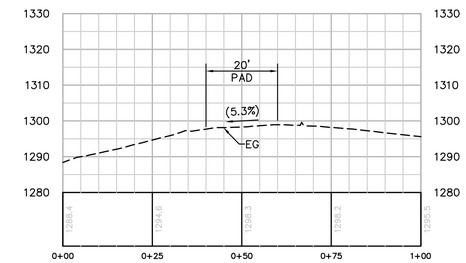
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-34-2	230 KV CXPT Tangent Lattice Tower	0.00	148.00





SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA:
PAD: 400 SF
TOTAL: 400 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-34-2

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P34-2 TSAP.dwg\DMoy-20-20101742

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SUTTER NO. 29706 Exp. 3-31-17 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

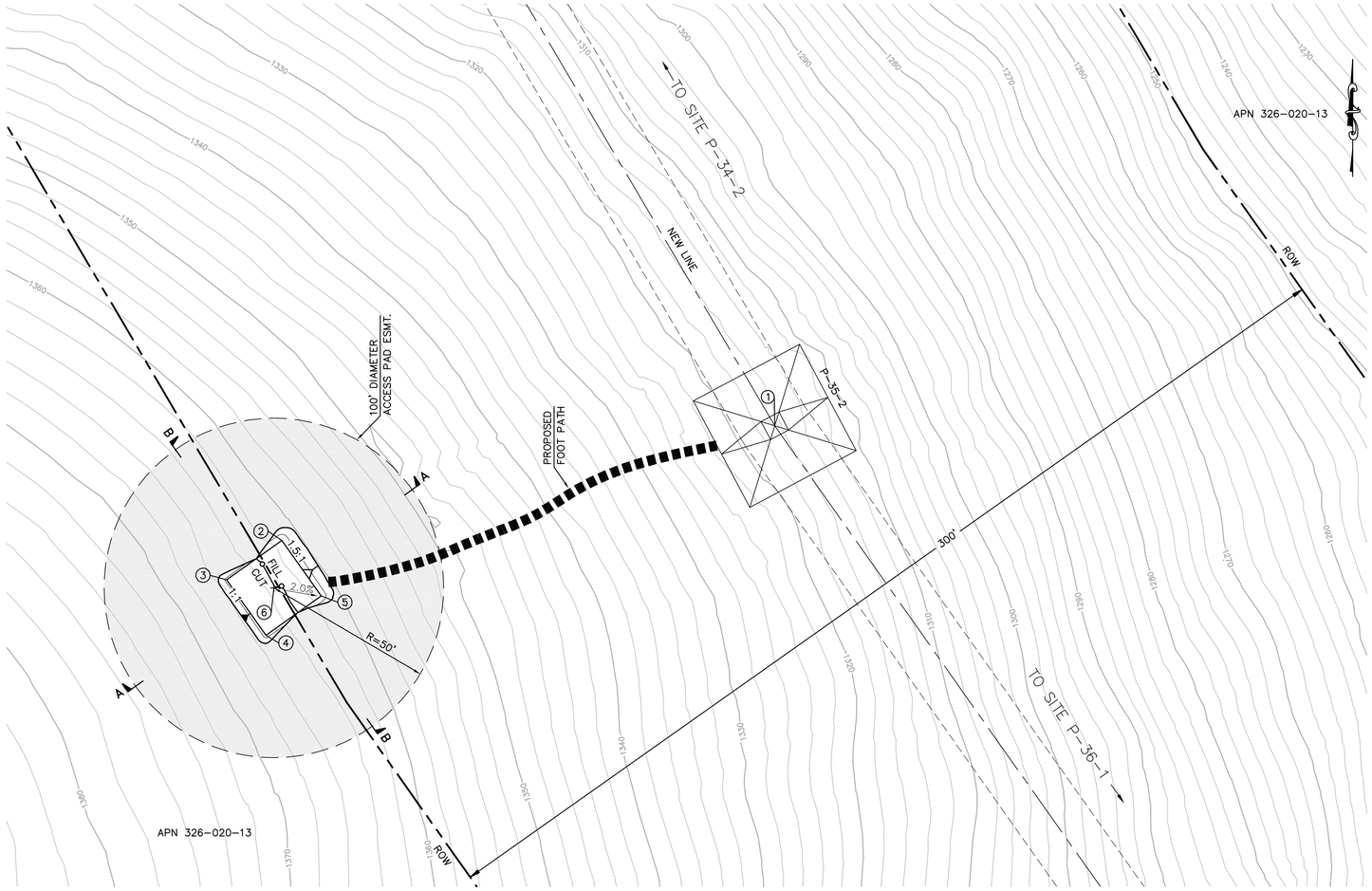
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-34-2

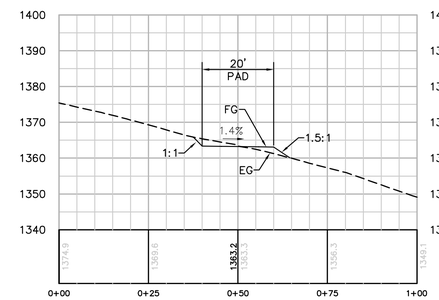
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P34-2-TSAP



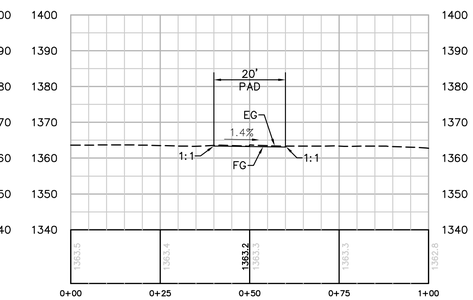
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1918277.70	6346243.16	(1316.48)	P-35-2
2	1918243.91	6346097.98	1363.23	FG
3	1918232.31	6346081.68	1363.51	FG
4	1918216.02	6346093.27	1363.23	FG
5	1918227.61	6346109.57	1362.95	FG
6	1918229.96	6346095.62		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-35-2	230 KV CXTA Angle Lattice Tower	-4.73	136.00



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:

CUT: 12 CY
FILL: 9 CY
NET: 2 CY

DISTURBED AREA:

PAD: 617 SF
TOTAL: 617 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-35-2

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 20 40

1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P35-2 TSAP.dwg©May-20-2010\7443

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

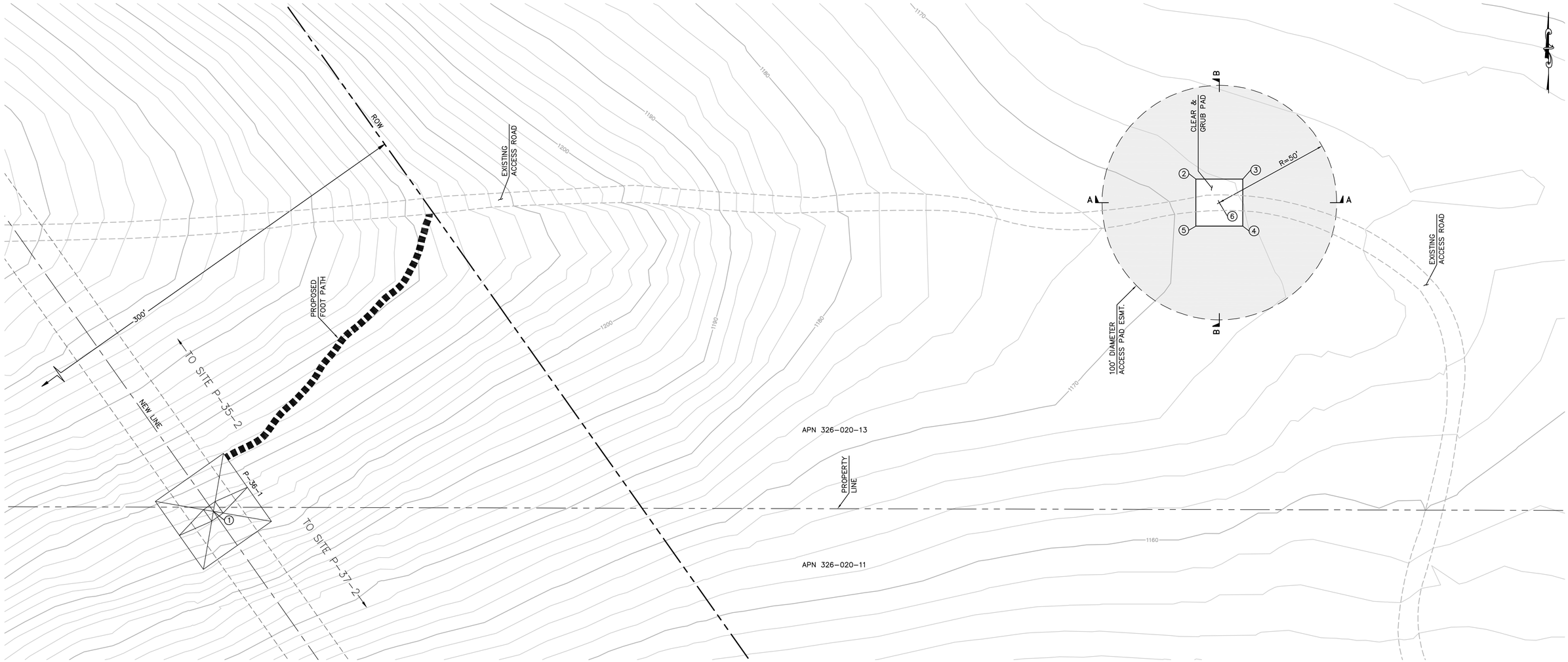
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-35-2

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:		05-P35-2-TSAP	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			



EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA:
PAD: 400 SF
TOTAL: 400 SF

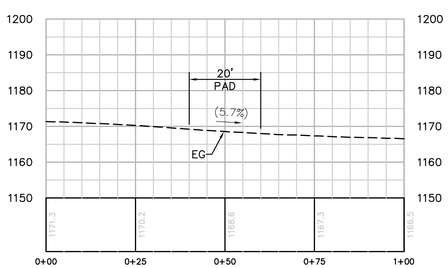
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-36-1

(THIS IS NOT A HELIPORT)

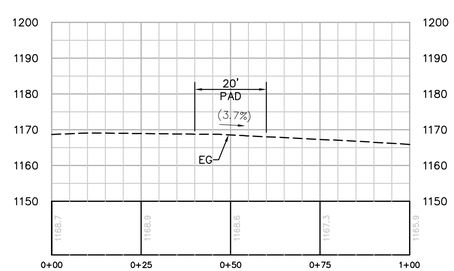
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1917536.01	6346767.15	(1206.27)	P-36-1
2	1917677.69	6347185.86	(1168.43)	EG
3	1917677.69	6347205.86	(1167.82)	EG
4	1917657.69	6347205.86	(1168.16)	EG
5	1917657.69	6347185.86	(1169.44)	EG
6	1917667.69	6347195.86		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-36-1	230 KV CXTL Long Tangent Lattice Tower	0.00	166.00

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P36-1 TSAP.dwg□Mky-20-2010\6\40

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH REG. NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

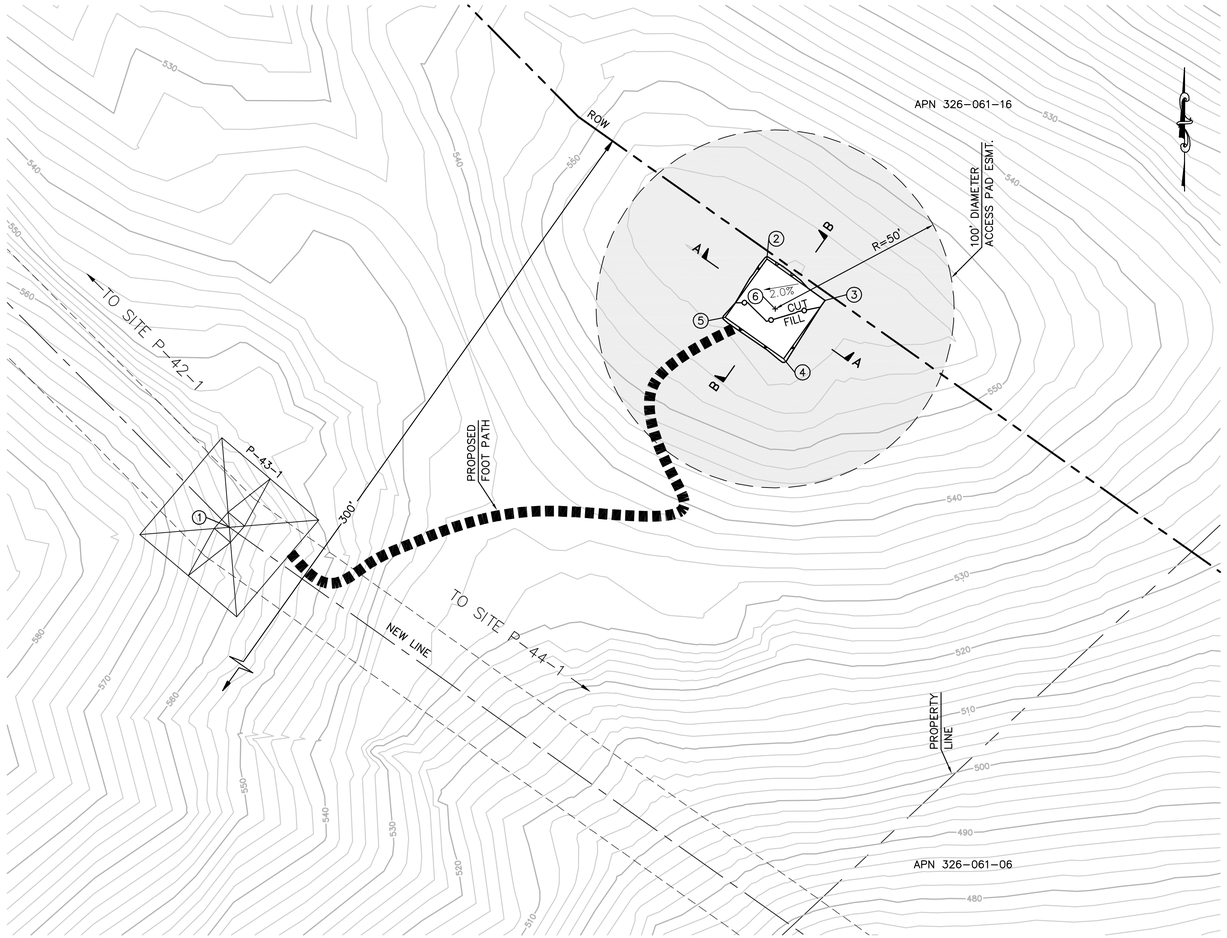
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-36-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05-P36-1-TSAP
CAD NO.:	PLOT SCALE: 1 = 1		



EARTH QUANTITIES:
CUT: 3 CY
FILL: 2 CY
NET: 1 CY

DISTURBED AREA:
PAD: 446 SF
TOTAL: 446 SF

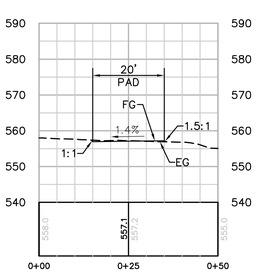
TOWER STAGING/ACCESS PAD FOR TOWER P-43-1
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

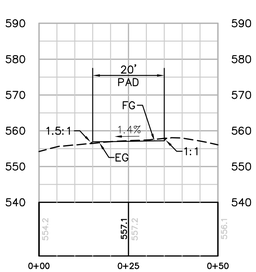
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-43-1	230 KV CXSD Dead-End Lattice Tower	-9.98	163.50

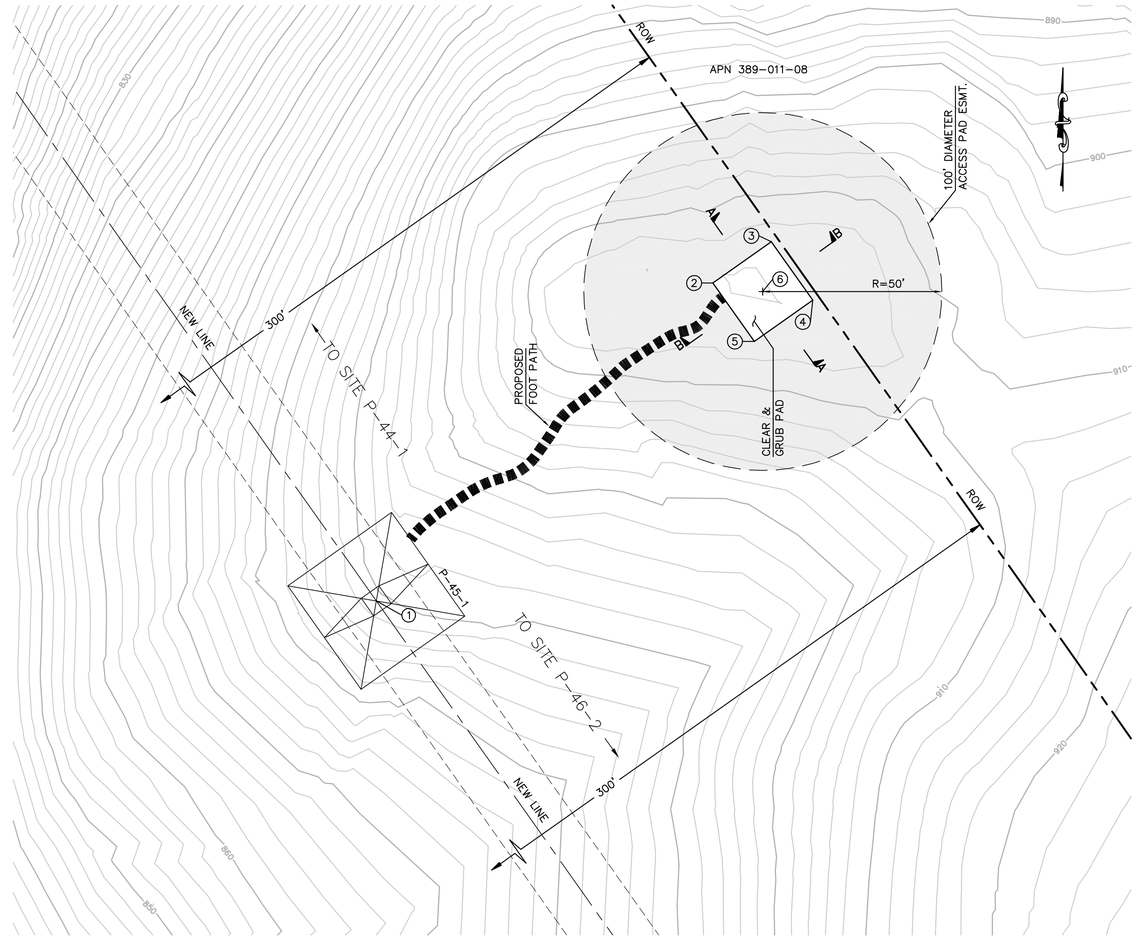
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1910497.82	6352901.39	(562.64)	P-43-1
2	1910572.81	6353051.61	557.05	FG
3	1910561.19	6353067.89	557.34	FG
4	1910544.91	6353056.28	557.05	FG
5	1910556.52	6353039.99	556.77	FG
6	1910558.86	6353053.94		RP



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'



EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

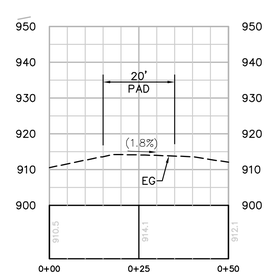
DISTURBED AREA:
PAD: 400 SF
TOTAL: 400 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-45-1
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

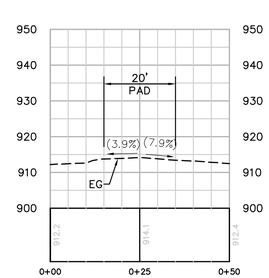
GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-45-1	230 KV CXSD Dead-End Lattice Tower	0.00	151.50



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1907007.23	6356379.59	(889.45)	P-45-1
2	1907096.08	6356473.64	(913.30)	EG
3	1907107.63	6356489.97	(912.68)	EG
4	1907091.30	6356501.52	(913.78)	EG
5	1907079.76	6356485.19	(913.28)	EG
6	1907093.69	6356487.58		RP

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH REG. NO. 28708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
TOWER STAGING/ACCESS PAD FOR SITE P-43-1 & P-45-1

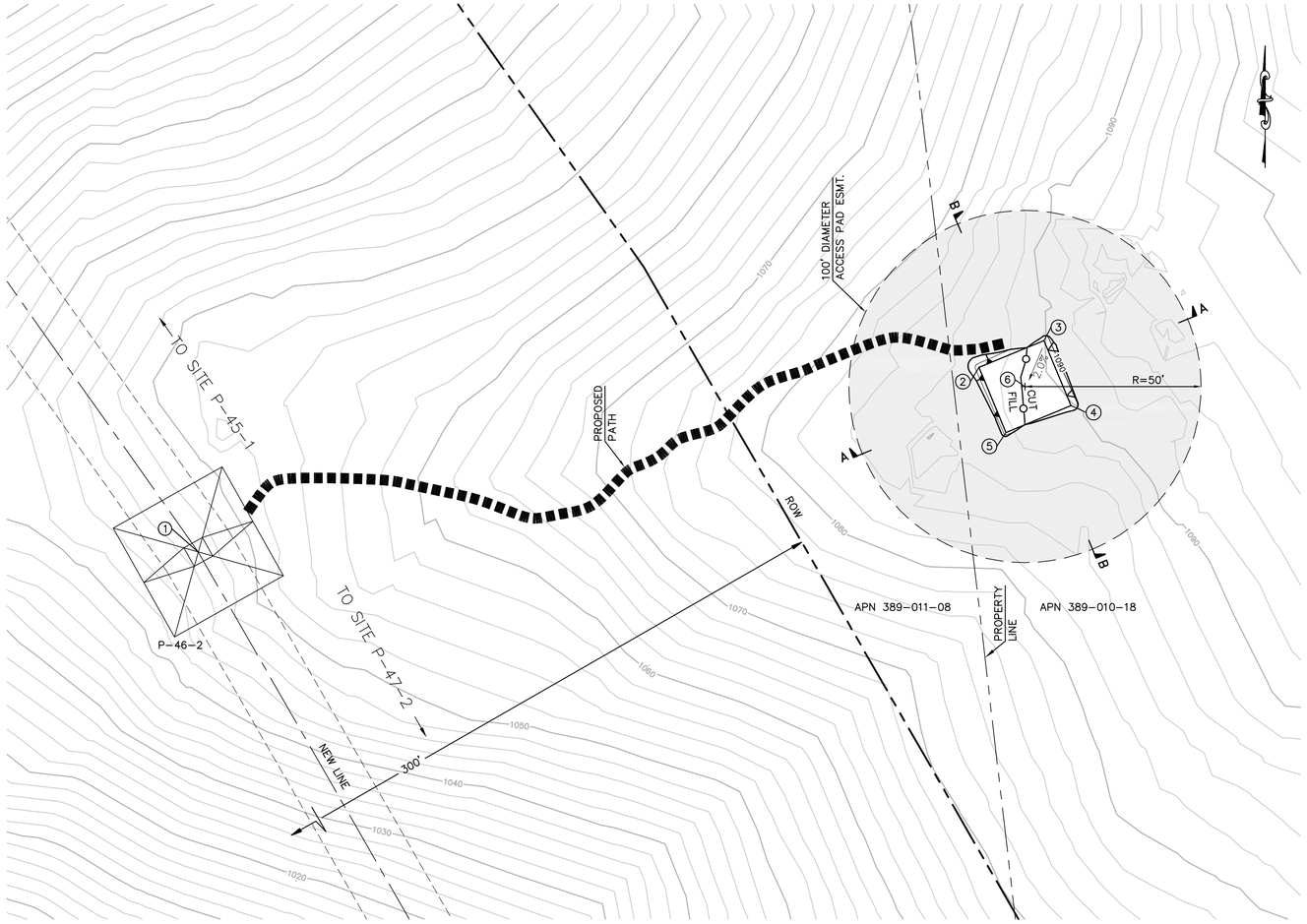
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

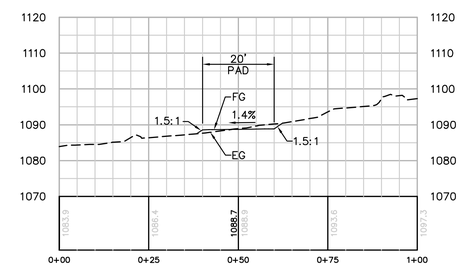
05-P43-1 & P45-1-TSAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P43-1 & P45-1 TSAP.dwg May-20-2010 18:08

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-46-2	230 KV CXSD Dead-End Lattice Tower	5.40	127.50

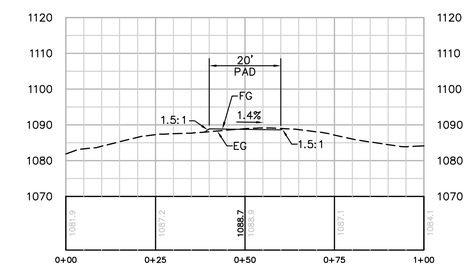
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1906298.24	6356881.01	(1046.90)	P-46-2
2	1906350.64	6357102.70	1088.73	FG
3	1906358.30	6357121.17	1089.01	FG
4	1906339.82	6357128.83	1088.73	FG
5	1906332.17	6357110.35	1088.45	FG
6	1906345.23	6357115.76		RP





SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 7 CY
FILL: 6 CY
NET: 1 CY

DISTURBED AREA:
PAD: 538 SF
TOTAL: 538 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-46-2

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P46-2 TSAP.dwg[]May-20-2010]8:09

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

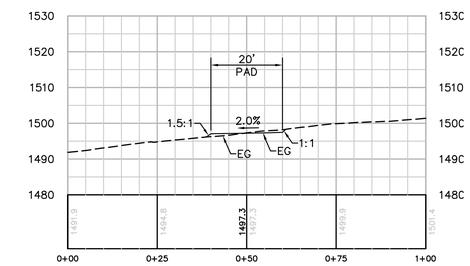
TOWER STAGING/ACCESS PAD FOR SITE P-46-2

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

05-P46-2-TSAP

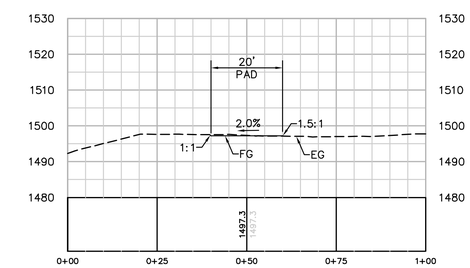
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-47-2	230 KV CXSD Dead-End Lattice Tower	11.44	172.50

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1904028.41	6358184.43	(1377.66)	P-47-2
2	1904087.20	6358509.31	1497.05	FG
3	1904105.27	6358500.74	1497.05	FG
4	1904113.84	6358518.82	1497.45	FG
5	1904095.77	6358527.39	1497.45	FG
6	1904100.52	6358514.06		RP



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 4 CY
FILL: 3 CY
NET: 1 CY

DISTURBED AREA:
PAD: 463 SF
TOTAL: 463 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-47-2

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P47-2 TSAP.dwg\DMay-20-2010\8:09

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SUTTER NO. 29700 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

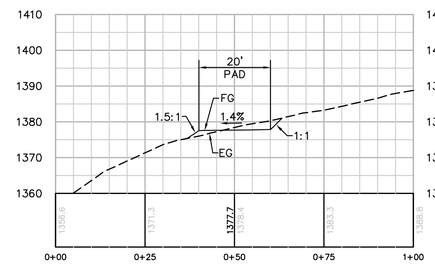
TOWER STAGING/ACCESS PLATFORM FOR SITE P-47-2

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

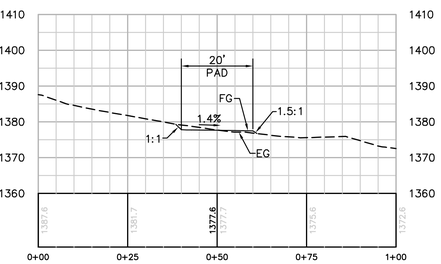
05-P47-2-TSAP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P47A–1	230 KV CXRS Strain Lattice Tower	–10.46	181.50

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1903456.76	6358374.85	(1269.48)	P–47A–1
2	1903505.80	6358562.19	1377.35	FG
3	1903524.21	6358554.38	1377.63	FG
4	1903532.02	6358572.80	1377.91	FG
5	1903513.60	6358580.60	1377.63	FG
6	1903518.91	6358567.49		RP



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 13 CY
FILL: 11 CY
NET: 2 CY

DISTURBED AREA:
PAD: 634 SF
TOTAL: 634 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-47A-1
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P47A-1 TSAP.dwg[]May-20-2010 18:07

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL–05 (LINK 5)
TOWER STAGING/ACCESS PAD FOR SITE P–47A–1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05–P47A–1–TSAP

EARTH QUANTITIES:
CUT: 5 CY
FILL: 3 CY
NET: 2 CY

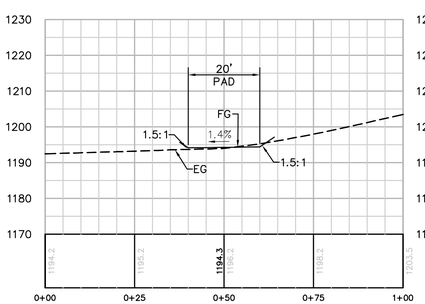
DISTURBED AREA:
PAD: 513 SF
TOTAL: 513 SF

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWERS P-48-2 & P-49-1

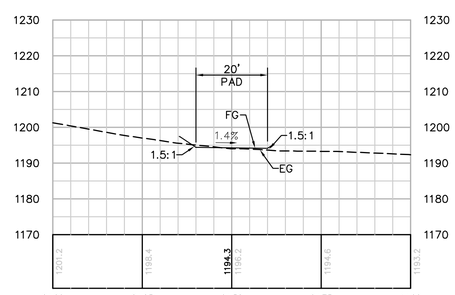
(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-48-2	230 KV CXRS Strain Lattice Tower	-23.98	145.50
P-49-1	230 KV CXSD Deadend Lattice Tower	-44.27	148.50

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1902842.56	6358713.61	(1236.83)	P-48-2
2	1902525.57	6359132.05	(1232.06)	P-49-1
3	1902553.71	6358831.35	1194.27	FG
4	1902564.90	6358847.92	1194.55	FG
5	1902548.33	6358859.11	1194.27	FG
6	1902537.14	6358842.54	1193.99	FG
7	1902551.02	6358845.23		RP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P48-2 & P49-1 TSAP.dwg[JMay-21-2010@9:39

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

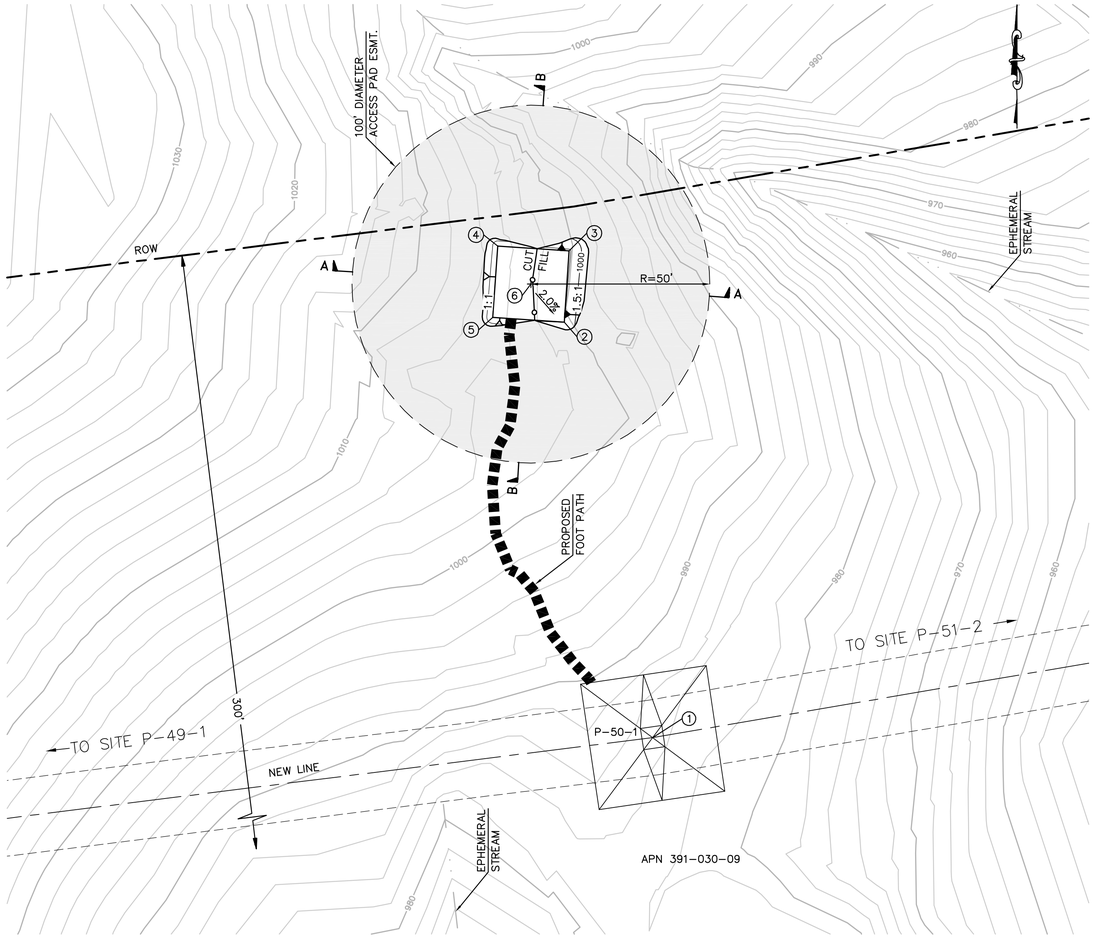
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-48-2 & P-49-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05-P48-2 & P49-1-TSAP
CAD NO.:	PLOT SCALE: 1 = 1		



EARTH QUANTITIES:
CUT: 14 CY
FILL: 11 CY
NET: 3 CY

DISTURBED AREA:
PAD: 647 SF
TOTAL: 647 SF

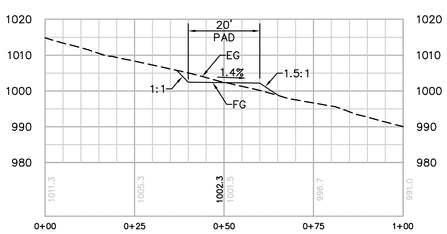
TOWER STAGING/ACCESS PAD FOR TOWER P-50-1
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

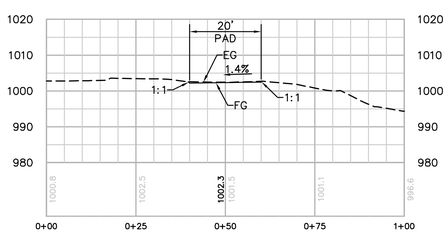
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-50-1	230 KV CXRS Strain Lattice Tower	-2.57	166.50

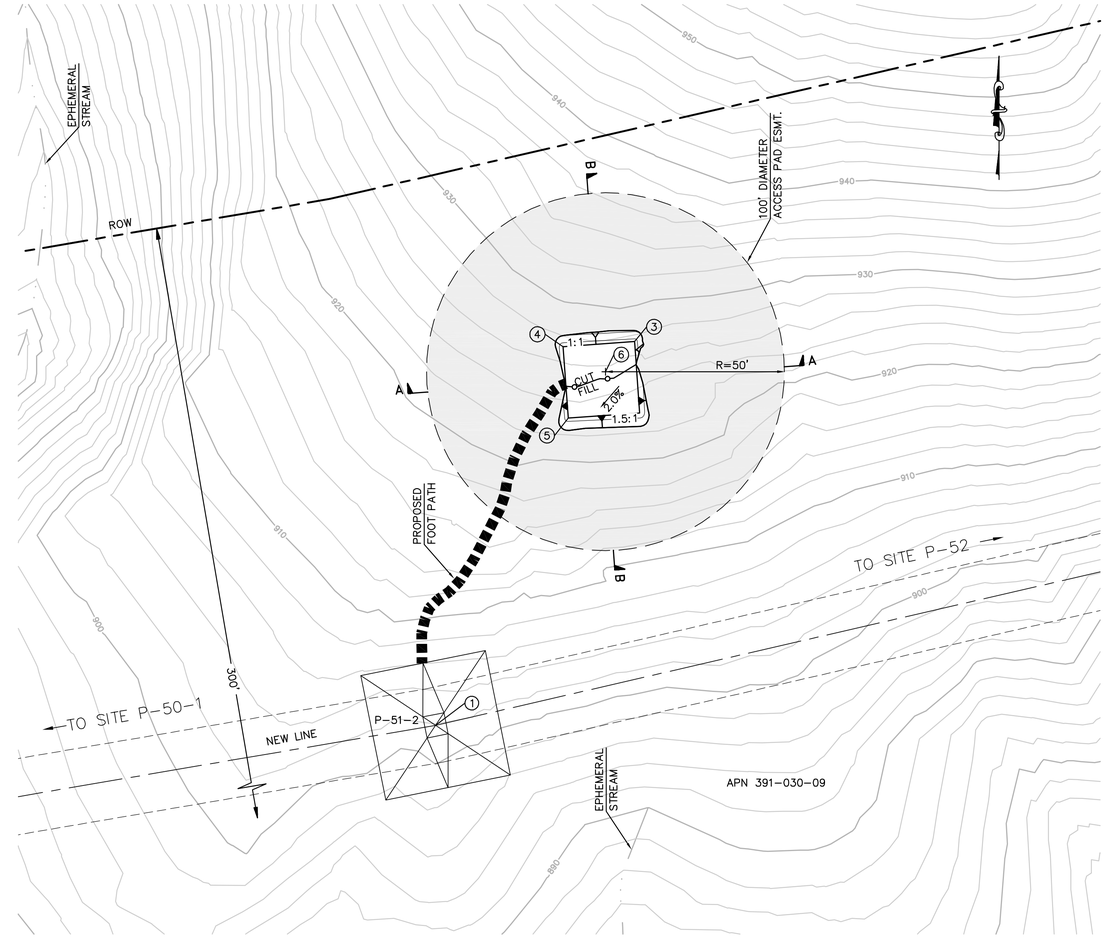
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1902635.79	6360013.33	(984.86)	P-50-1
2	1902751.87	6359988.62	1002.03	FG
3	1902771.83	6359989.98	1002.31	FG
4	1902773.19	6359970.02	1002.59	FG
5	1902753.23	6359968.66	1002.31	FG
6	1902762.53	6359979.32		RP



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'



EARTH QUANTITIES:
CUT: 13 CY
FILL: 10 CY
NET: 3 CY

DISTURBED AREA:
PAD: 613 SF
TOTAL: 613 SF

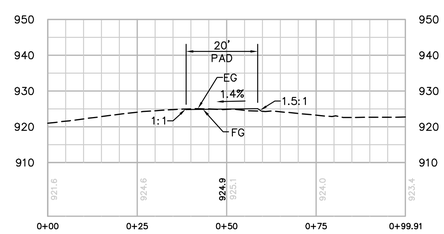
TOWER STAGING/ACCESS PAD FOR TOWER P-51-2
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

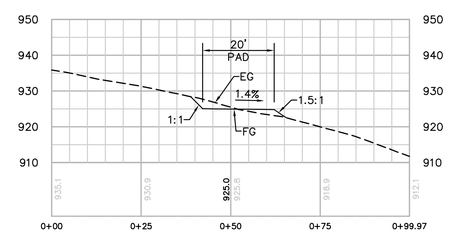
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-51-2	230 KV CXTA Angle Lattice Tower	-3.31	136.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1902910.74	6361622.74	(901.91)	P-51-2
3	1903018.01	6361678.33	925.21	FG
4	1903016.59	6361658.38	924.93	FG
5	1902996.64	6361659.80	924.65	FG
6	1903009.59	6361670.21		RP



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29706
Exp.3-31-17
CIVIL
STATE OF CALIFORNIA

REVISIONS

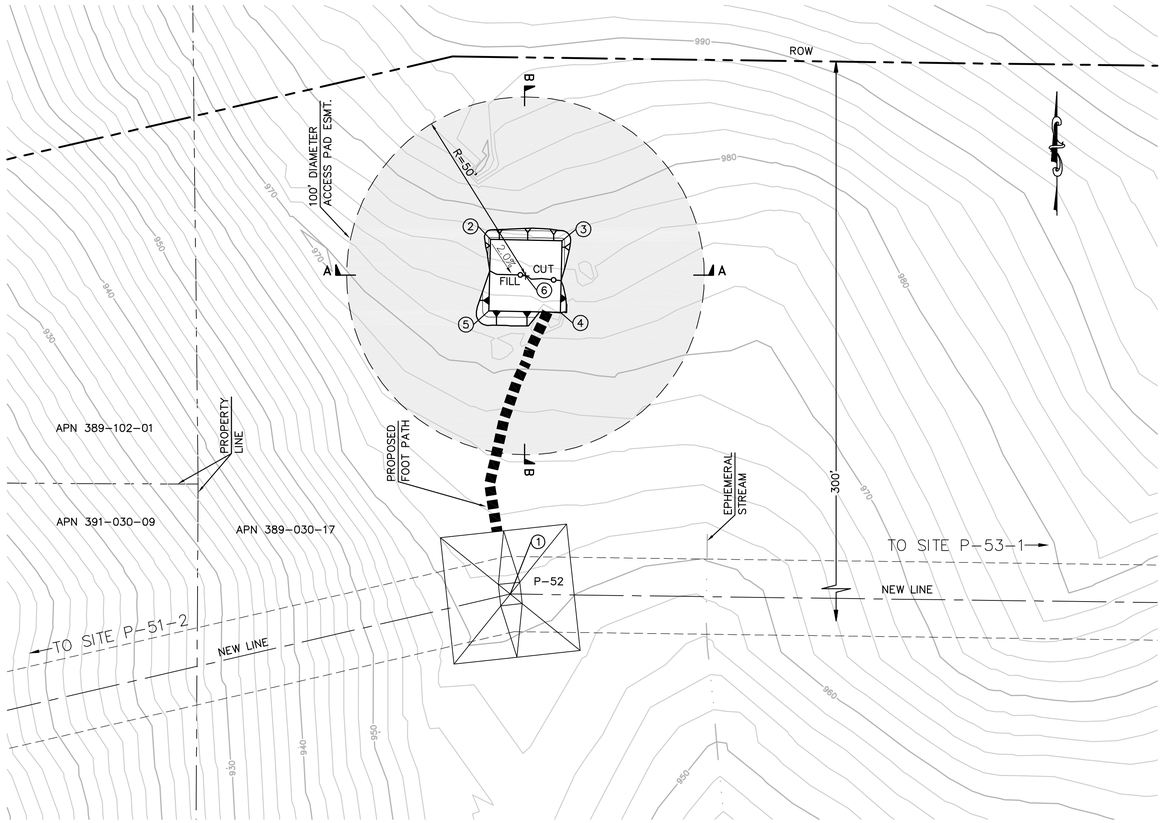
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
TOWER STAGING/ACCESS PAD FOR SITE P-50-1 & P-51-2

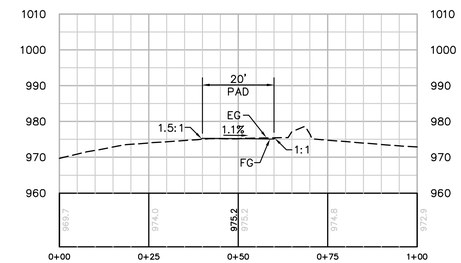
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05-P50-1 & P51-2-TSAP
CAD NO.:		PLOT SCALE: 1 = 1	

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P50-1 & P51-2 TSAP.dwg[May-21-2010]0941



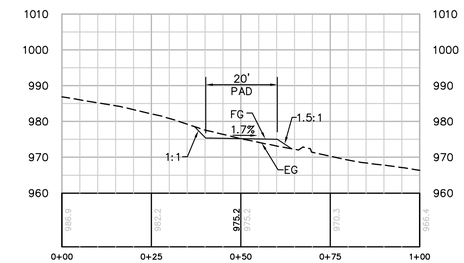
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1903146.85	6362645.32	(961.33)	P-52
2	1903245.99	6362639.77	975.49	FG
3	1903245.57	6362659.77	975.26	FG
4	1903225.57	6362659.34	974.94	FG
5	1903226.00	6362639.35	975.16	FG
6	1903235.78	6362649.56		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-52	230 KV CXTA Angle Lattice Tower	13.76	130.00



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES
CUT: 12 CY
FILL: 10 CY
NET: 2 CY

DISTURBED AREA:
PAD: 585 SF
TOTAL: 585 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-52

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P52 TSAP.dwg[]May-21-20100943

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29106
Exp.3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

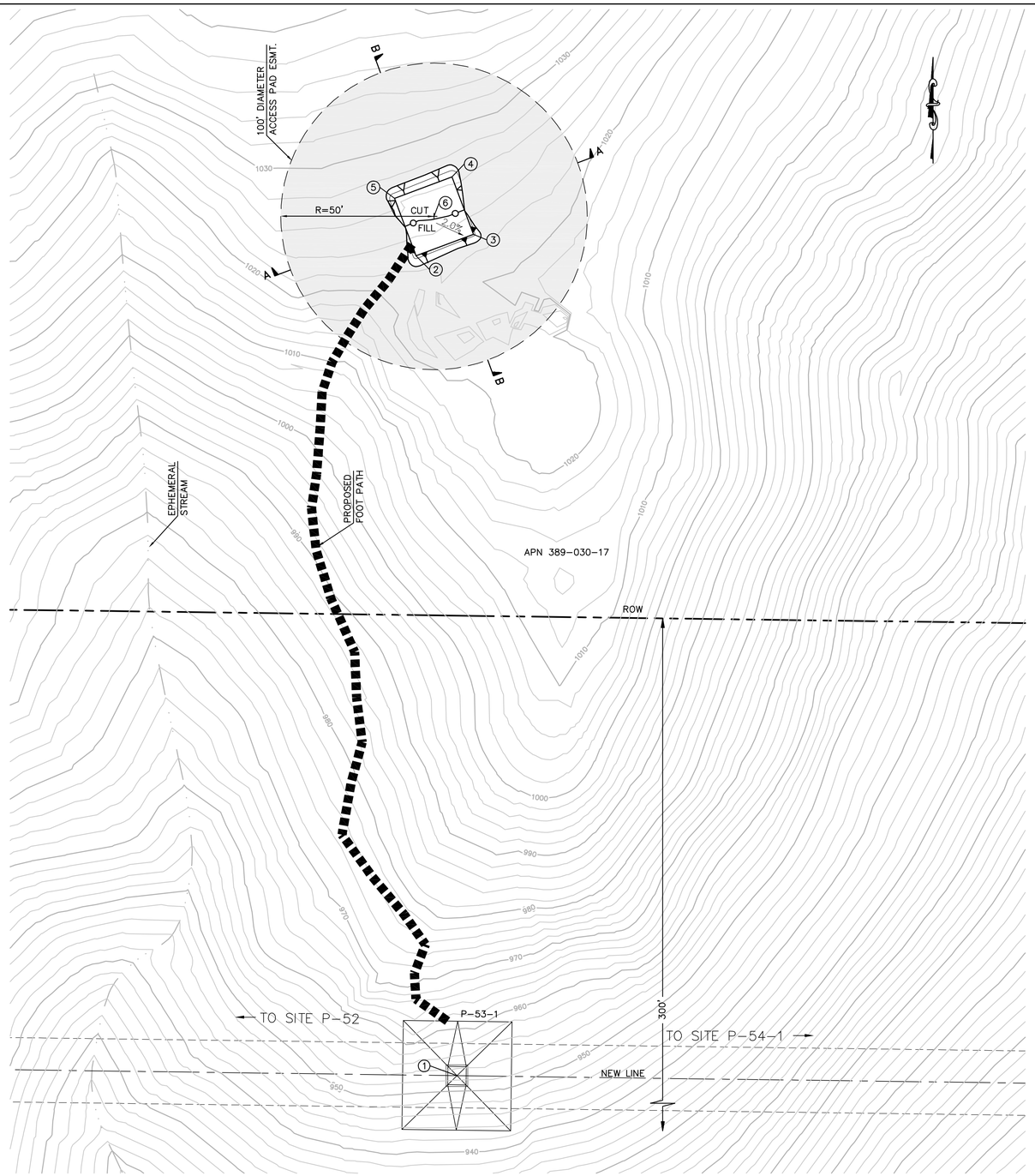
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-52

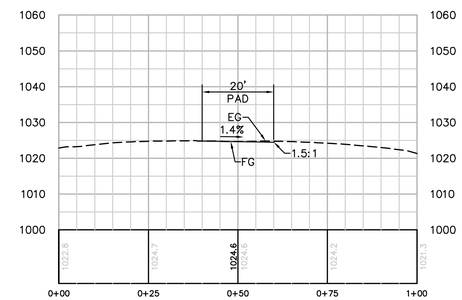
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

05-P52-TSAP



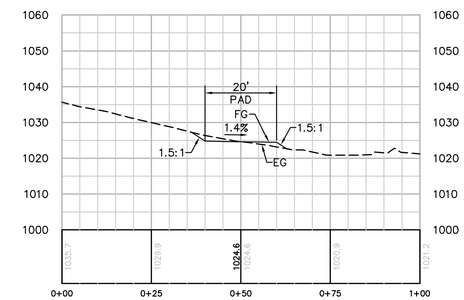
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1903141.18	6363075.95	(952.78)	P-53-1
2	1903408.52	6363062.61	1024.62	FG
3	1903415.51	6363081.35	1024.34	FG
4	1903434.25	6363074.36	1024.62	FG
5	1903427.26	6363055.62	1024.90	FG
6	1903421.39	6363068.49		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-53-1	230 KV CXPT Tangent Lattice Tower	0.00	139.00



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 10 CY
FILL: 7 CY
NET: 3 CY

DISTURBED AREA:
PAD: 613 SF
TOTAL: 613 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-53-1

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

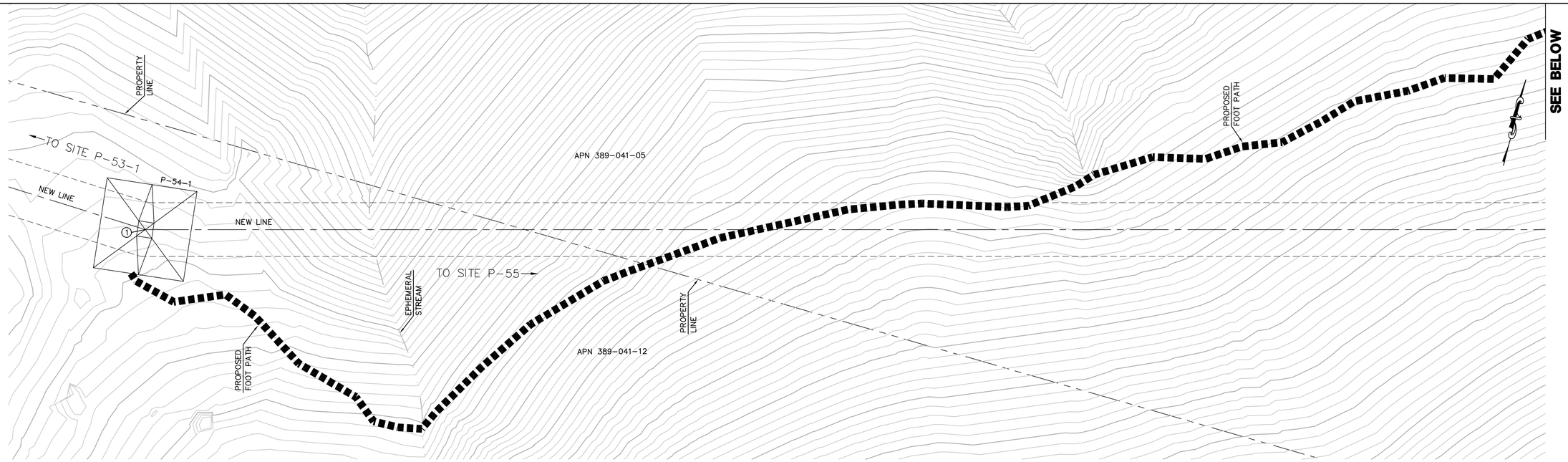
SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-53-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P53-1-TSAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P53-1 TSAP.dwg|Mo=21-2010:09:35

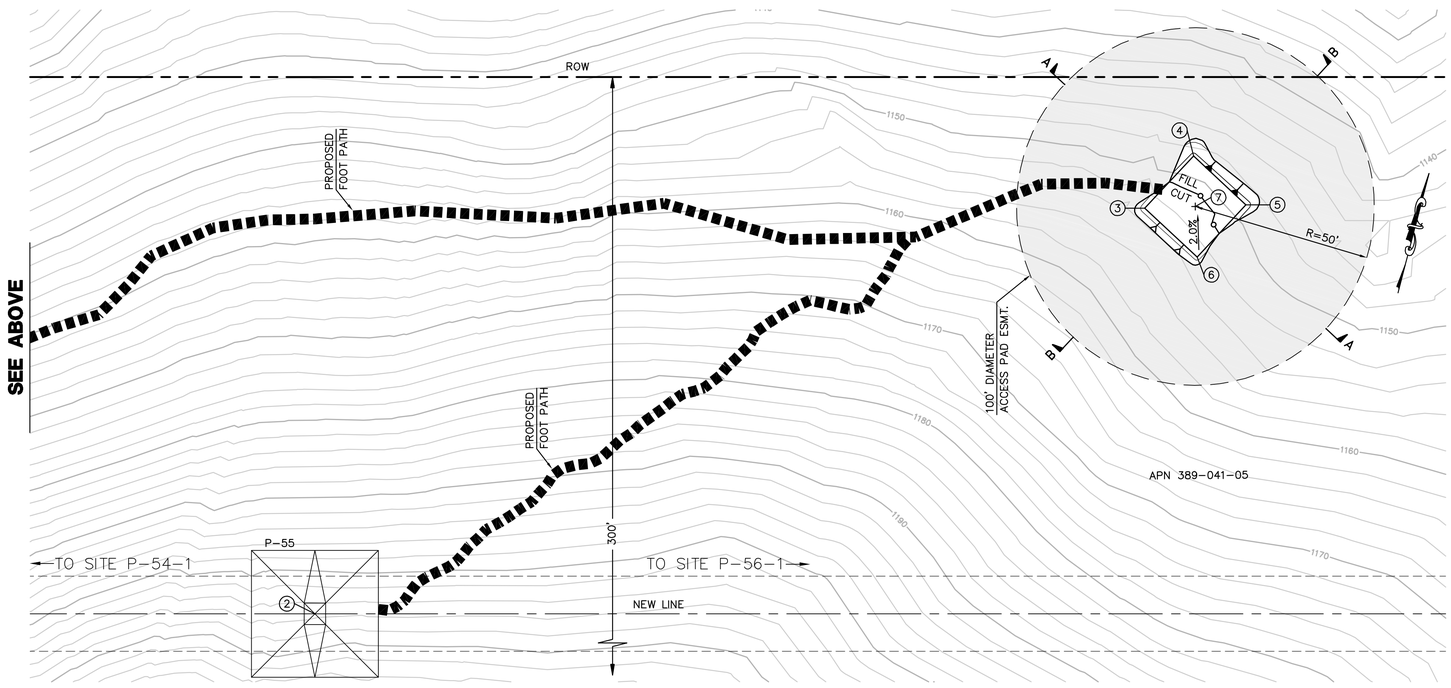


TOWER STAGING/ACCESS PAD FOR TOWER P-54-1 & P-55

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'



GRAPHIC SCALE
20 0 20 40
1"=20'

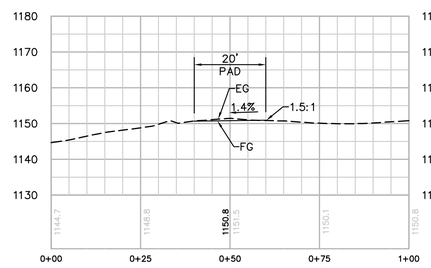
EARTH QUANTITIES:
CUT: 11 CY
FILL: 8 CY
NET: 3 CY

DISTURBED AREA:
PAD: 619 SF
TOTAL: 619 SF

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

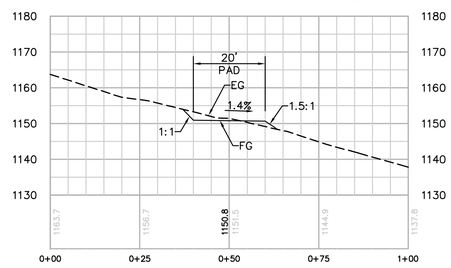
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-54-1	230 KV CXTA Angle Lattice Tower	-17.35	154.00
P-55	230 KV CXPT Tangent Lattice Tower	0.00	130.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1903112.77	6365231.23	(1096.35)	P-54-1
2	1903291.60	6365831.43	(1205.43)	P-55
3	1903466.46	6366021.32	1150.84	FG
4	1903484.36	6366030.23	1150.55	FG
5	1903475.45	6366048.13	1150.84	FG
6	1903457.55	6366039.22	1151.12	FG
7	1903470.96	6366034.73		RP



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P54-1 & P55 TSAP.dwg\JMay-21-2010\0:45

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-54-1 & P-55

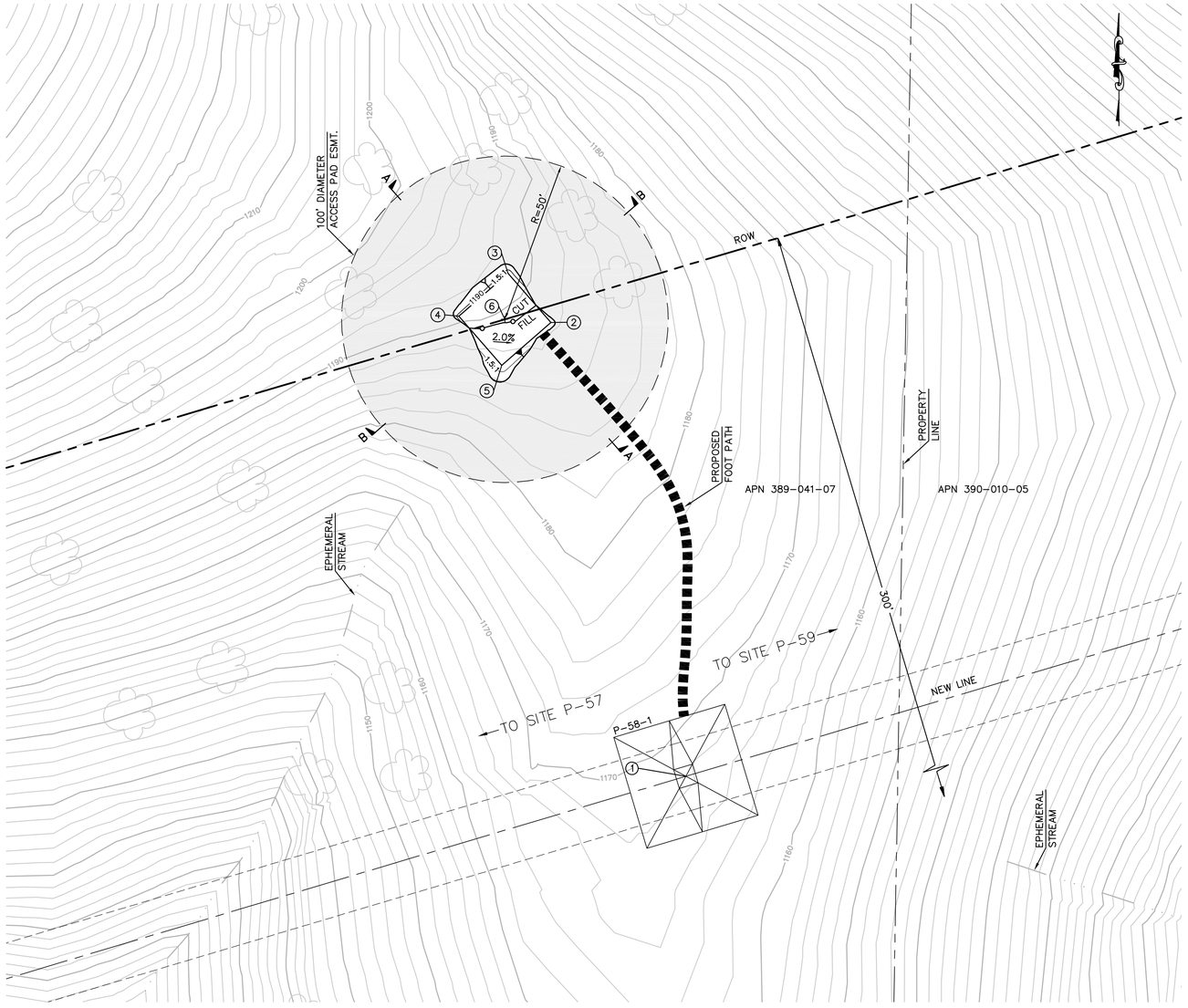
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

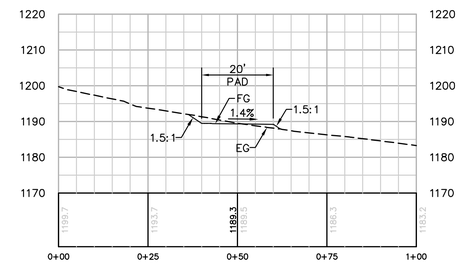
REV. 0

05-P54-1 & P55-TSAP

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1904558.66	6370083.99	(1168.59)	P-58-1
2	1904697.71	6370042.65	1189.03	FG
3	1904712.78	6370029.50	1189.31	FG
4	1904699.63	6370014.43	1189.60	FG
5	1904684.56	6370027.57	1189.31	FG
6	1904698.67	6370028.54		RP

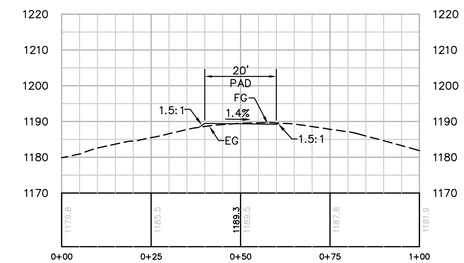
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-58-1	230 KV CXPT Tangent Lattice Tower	0.00	124.00





SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 9 CY
FILL: 7 CY
NET: 2 CY

DISTURBED AREA:
PAD: 595 SF
TOTAL: 595 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-58-1

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P58-1 TSAP.dwg[JMay-21-20101045

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

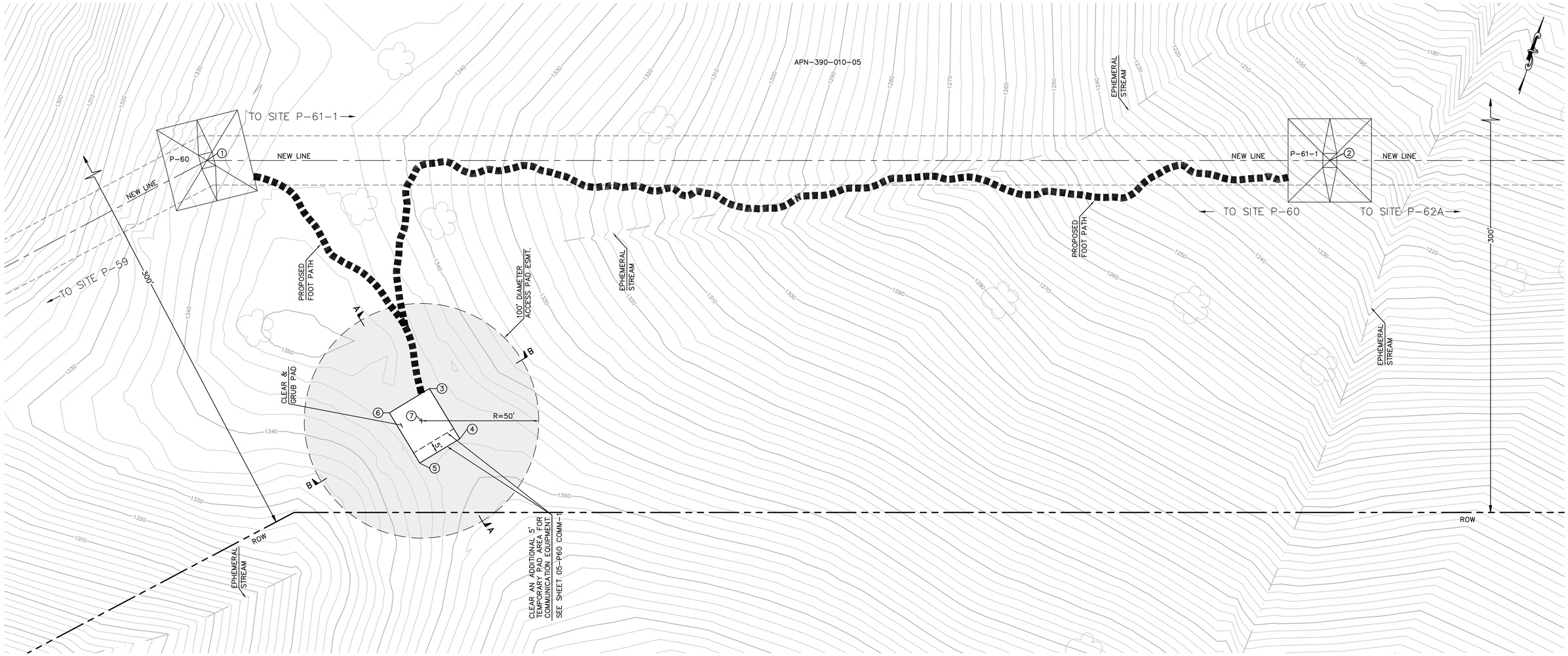
SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-58-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

REV. 0

05-P58-1-TSAP



EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA:
PAD: 500 SF
TOTAL: 500 SF

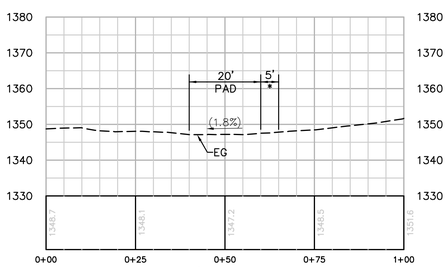
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-60 & P-61-1

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

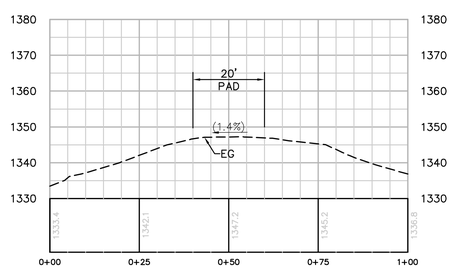
GRAPHIC SCALE
20 0 20 40
1"=20'



* CLEAR AN ADDITIONAL 5' TEMPORARY PAD AREA FOR COMMUNICATION EQUIPMENT

SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-60	230 KV CXSD Dead-End Lattice Tower	27.80	145.50
P-61-1	230 KV CXPT Tangent Lattice Tower	0.00	166.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1905638.32	6372109.65	(1338.66)	P-60
2	1905785.09	6372565.29	(1212.43)	P-61-1
3	1905574.90	6372229.72	(1347.03)	EG
4	1905558.52	6372248.61	(1347.74)	EG
5	1905543.41	6372235.50	(1346.77)	EG
6	1905559.80	6372216.62	(1346.66)	EG
7	1905560.79	6372230.72		RP

NOTE:
TOWER STAGING / ACCESS PAD AREA WILL NOT BE USABLE DURING TEMPORARY COMMUNICATION EQUIPMENT PAD USE.

PAD TO BE RESTORED TO 20' X 20' ONCE TEMPORARY USE FOR COMMUNICATION EQUIPMENT IS OVER.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P60 & P61-1 TSAP.dwg\JMoy-21-20\10:46

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-17 CIVIL STATE OF CALIFORNIA

REVISIONS

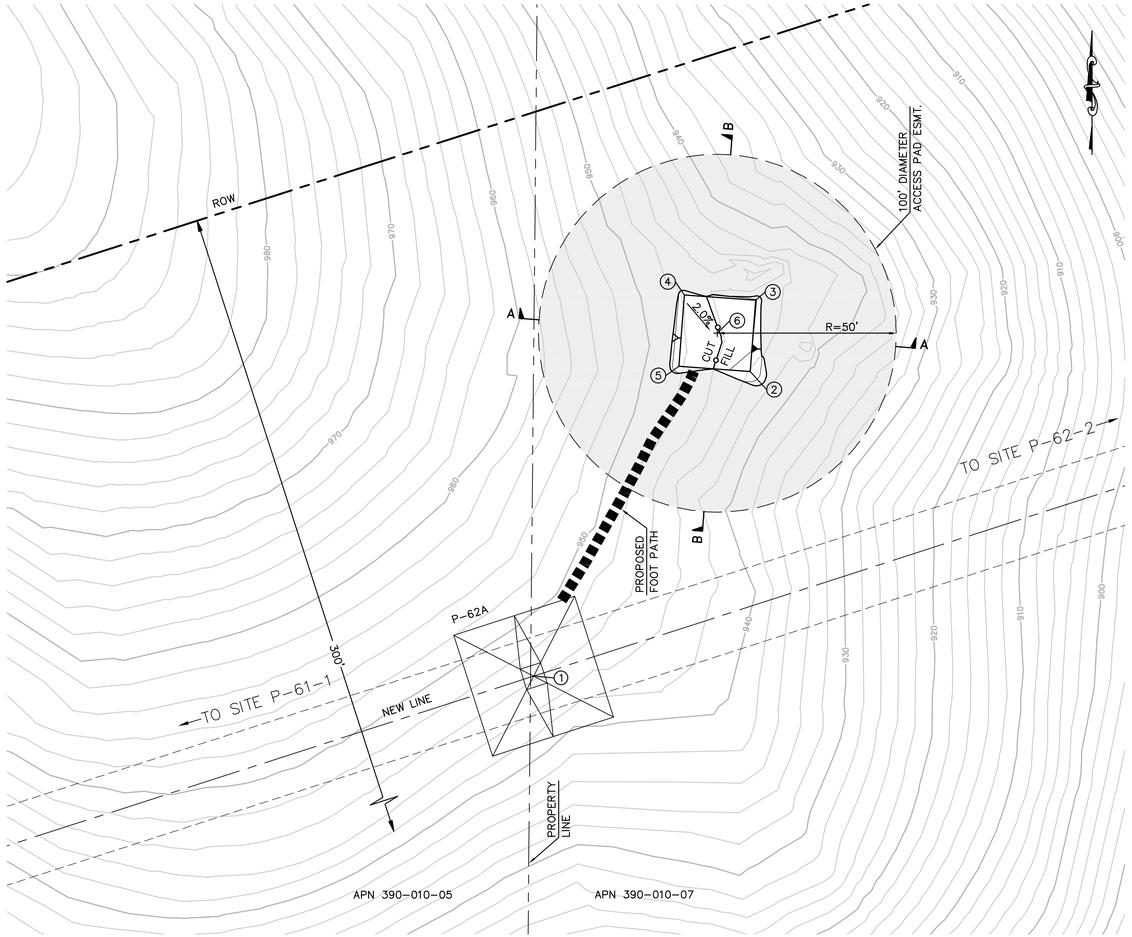
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-60 & P-61-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:		05-P60 & P61-1-TSAP	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			



EARTH QUANTITIES:
CUT: 9 CY
FILL: 7 CY
NET: 2 CY

DISTURBED AREA:
PAD: 558 SF
TOTAL: 558 SF

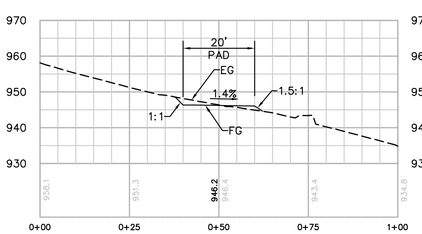
TOWER STAGING/ACCESS PAD FOR TOWER P-62A
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

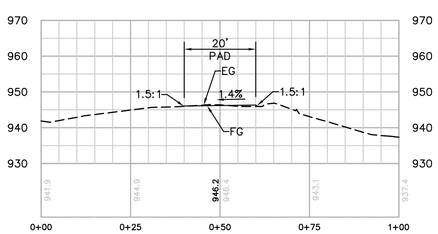
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1906270.39	6374071.94	(946.08)	P-62A
2	1906355.51	6374132.48	945.92	FG
3	1906375.46	6374133.97	946.20	FG
4	1906376.95	6374114.03	946.48	FG
5	1906357.01	6374112.53	946.20	FG
6	1906366.24	6374123.25		RP

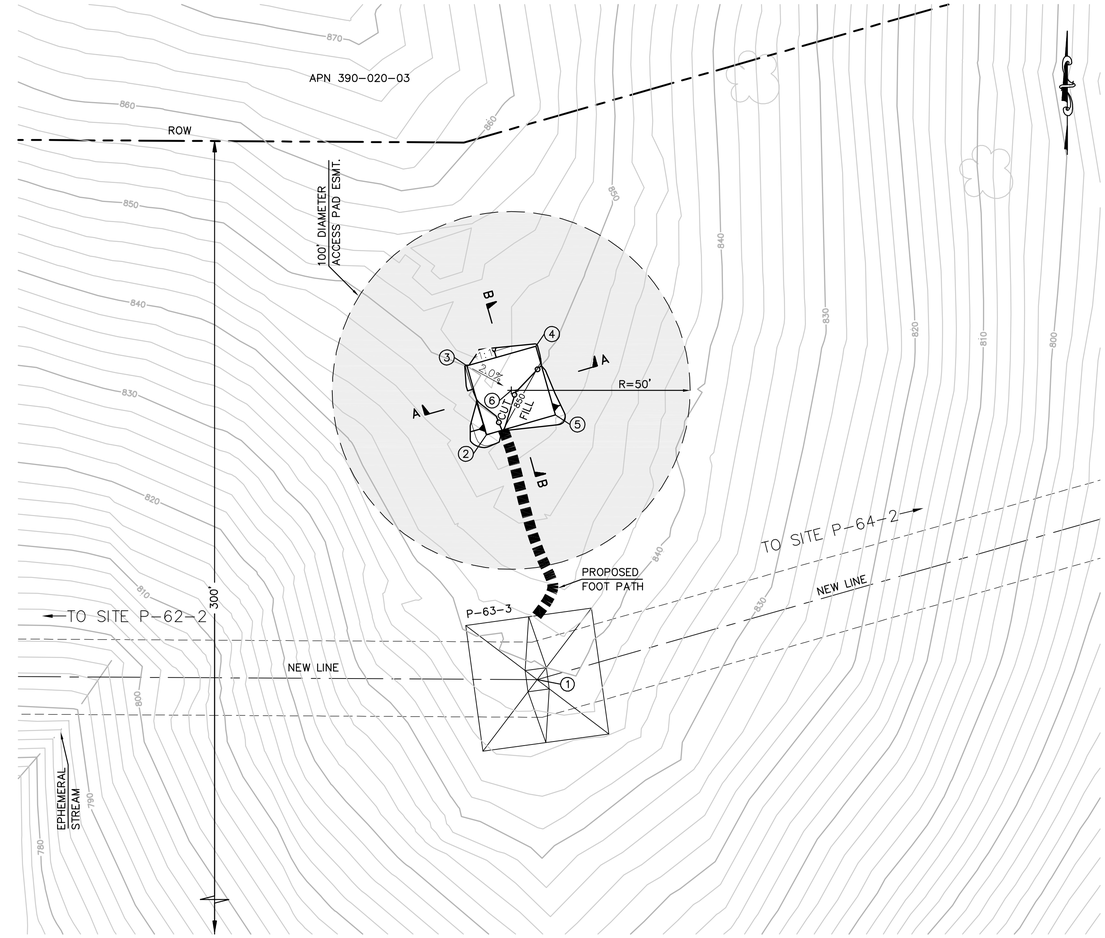
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-62A	230 KV CXPT Tangent Lattice Tower	0.00	121.00



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'



EARTH QUANTITIES:
CUT: 10 CY
FILL: 8 CY
NET: 2 CY

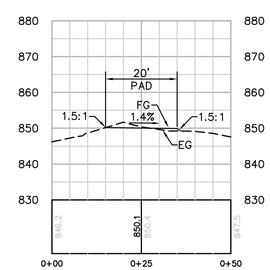
DISTURBED AREA:
PAD: 551 SF
TOTAL: 551 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-63-3
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

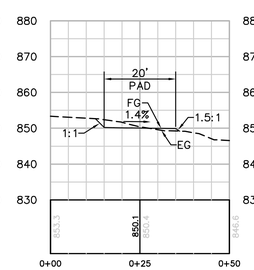
GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-63-3	230 KV CXSD Dead-End Lattice Tower	-16.26	133.50



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1906598.09	6376888.45	(839.18)	P-63-3
2	1906666.58	6376874.31	850.07	FG
3	1906685.81	6376868.82	850.35	FG
4	1906691.30	6376888.05	850.07	FG
5	1906672.06	6376893.54	849.79	FG
6	1906678.94	6376881.18		RP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P62A & 63-3 TSAP.dwg\JMay-21-201010147

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29706 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

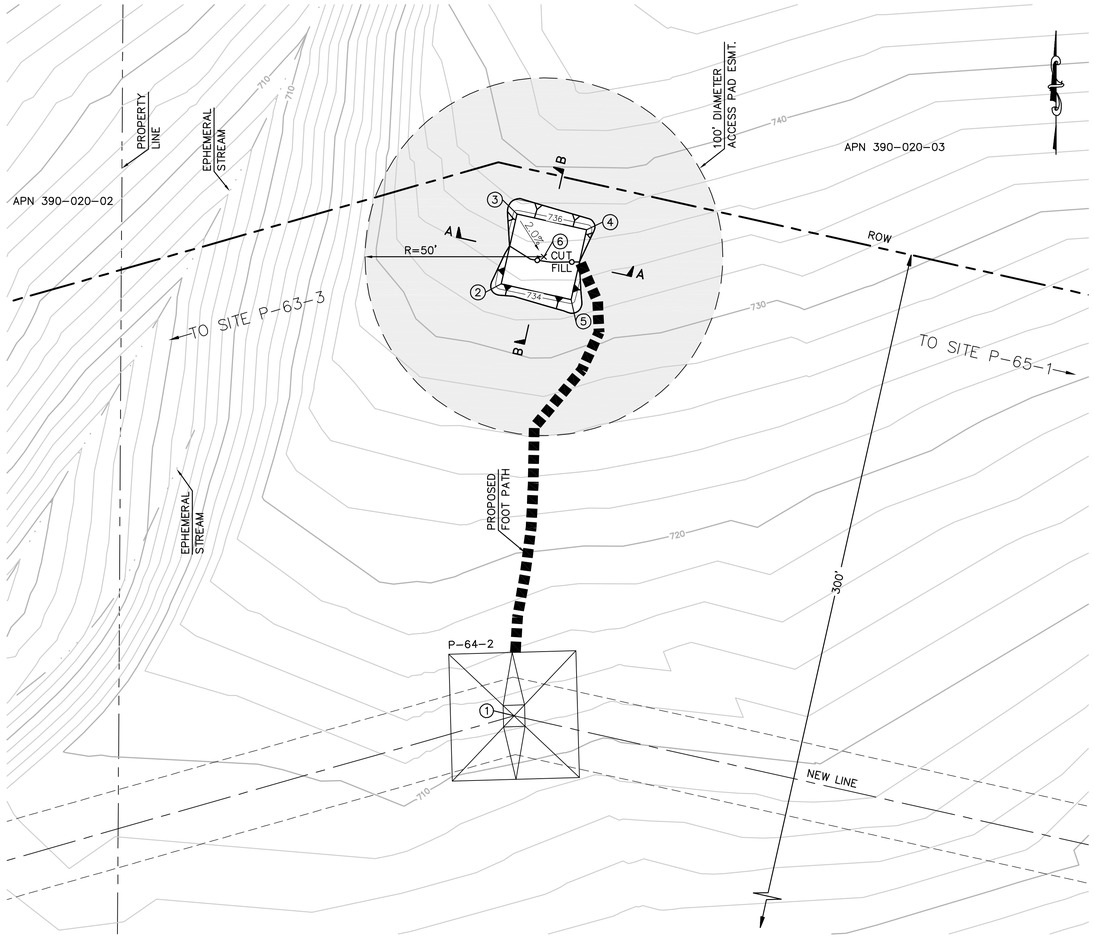
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
TOWER STAGING/ACCESS PAD FOR SITE P-62A & P-63-3

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05-P62A & P63-3-TSAP
CAD NO.:	PLOT SCALE: 1 = 1		



EARTH QUANTITES:
CUT: 10 CY
FILL: 9 CY
NET: 1 CY

DISTURBED AREA:
PAD: 624 SF
TOTAL: 624 SF

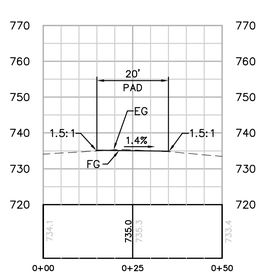
TOWER STAGING/ACCESS PAD FOR TOWER P-64-2
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

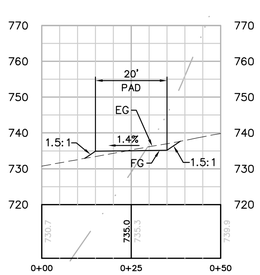
PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-64-2	230 KV CXRS Strain Lattice Tower	28.58	145.50

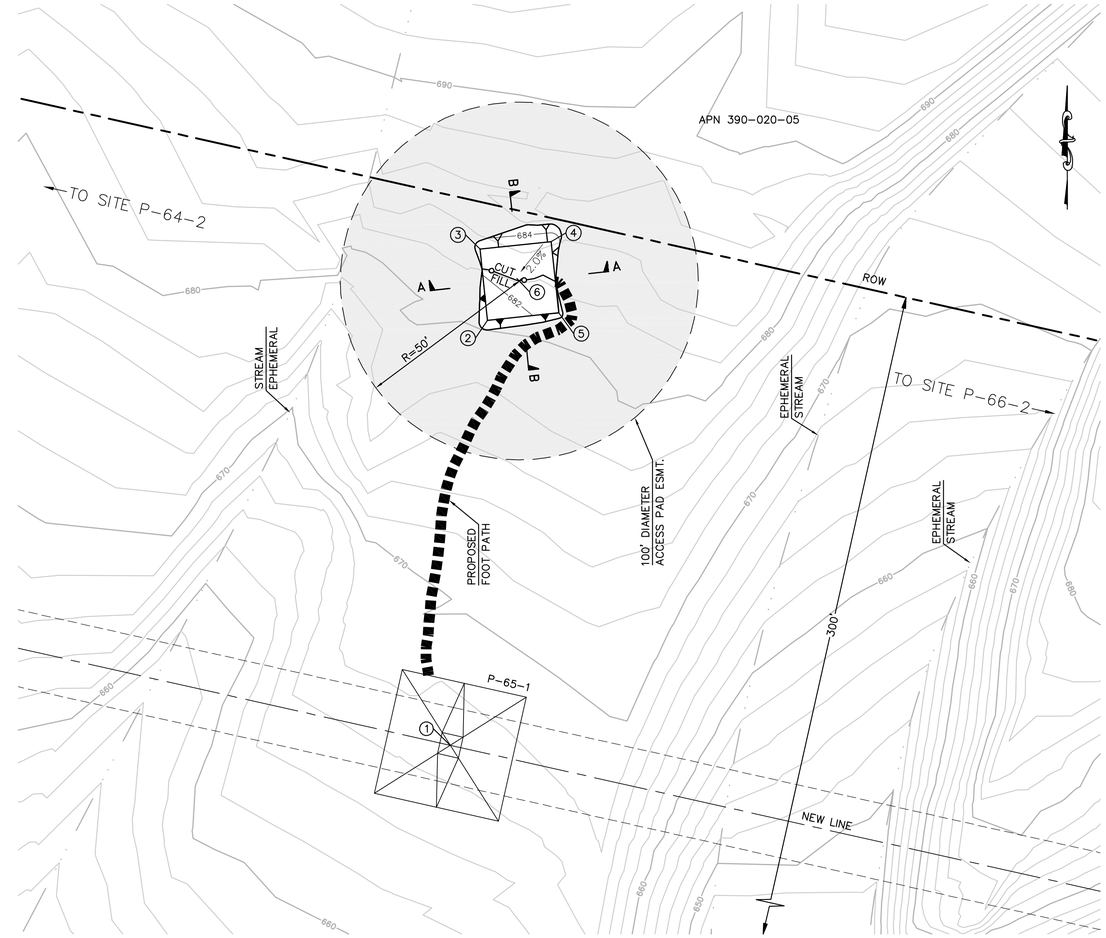
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1906925.08	6378035.29	(712.76)	P-64-2
2	1907045.84	6378031.67	735.03	FG
3	1907065.35	6378036.06	735.31	FG
4	1907060.96	6378055.57	735.03	FG
5	1907041.45	6378051.18	734.75	FG
6	1907053.40	6378043.62		RP



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'



EARTH QUANTITES:
CUT: 10 CY
FILL: 8 CY
NET: 2 CY

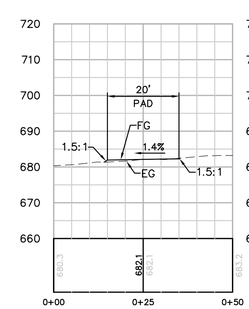
DISTURBED AREA:
PAD: 594 SF
TOTAL: 594 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-65-1
(THIS IS NOT A HELIPORT)
SCALE: 1" = 20'

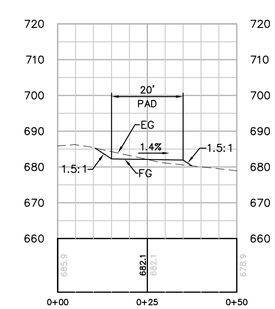
GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-65-1	230 KV CXTL Long Tangent Lattice Tower	0.00	160.00



SECTION A-A
HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B
HORIZ. & VERT. SCALE: 1"=20'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1906626.48	6379364.46	(667.12)	P-65-1
2	1906745.25	6379374.86	681.82	FG
3	1906765.13	6379372.74	682.10	FG
4	1906767.26	6379392.62	682.38	FG
5	1906747.37	6379394.75	682.10	FG
6	1906756.25	6379383.74		RP

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29106 Exp. 3-31-17 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

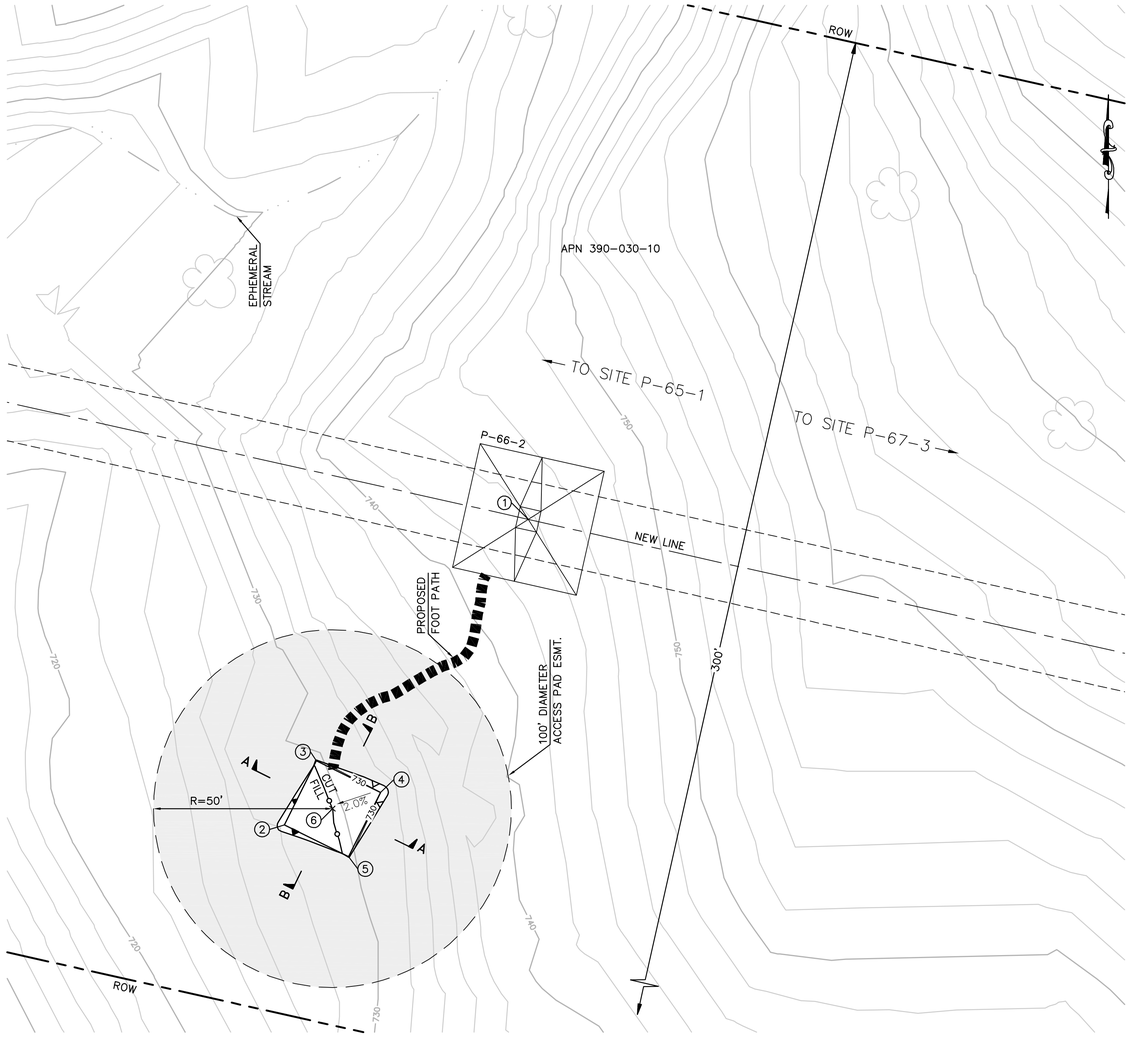
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
TOWER STAGING/ACCESS PAD FOR SITE P-64-2 & P-65-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

05-P64-2 & P65-1-TSAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P64-2 & 65-1 TSAP.dwgCIMay-21-2010\0\53



EARTH QUANTITIES:
CUT: 5 CY
FILL: 4 CY
NET: 1 CY

DISTURBED AREA:
PAD: 493 SF
TOTAL: 493 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-66-2

(THIS IS NOT A HELIPORT)

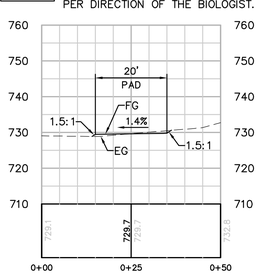
SCALE: 1" = 20'

GRAPHIC SCALE 20 0 20 40 1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

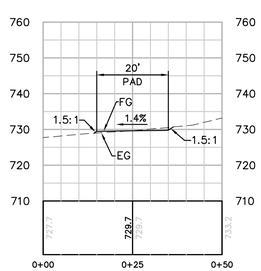
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-66-2	230 KV CXSD Dead-End Lattice Tower	0.00	148.50

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1906205.61	6381237.89	(743.87)	P-66-2
2	1906120.22	6381169.74	729.38	FG
3	1906138.14	6381178.63	729.66	FG
4	1906129.25	6381196.55	729.94	FG
5	1906111.33	6381187.66	729.66	FG
6	1906124.74	6381183.14		RP



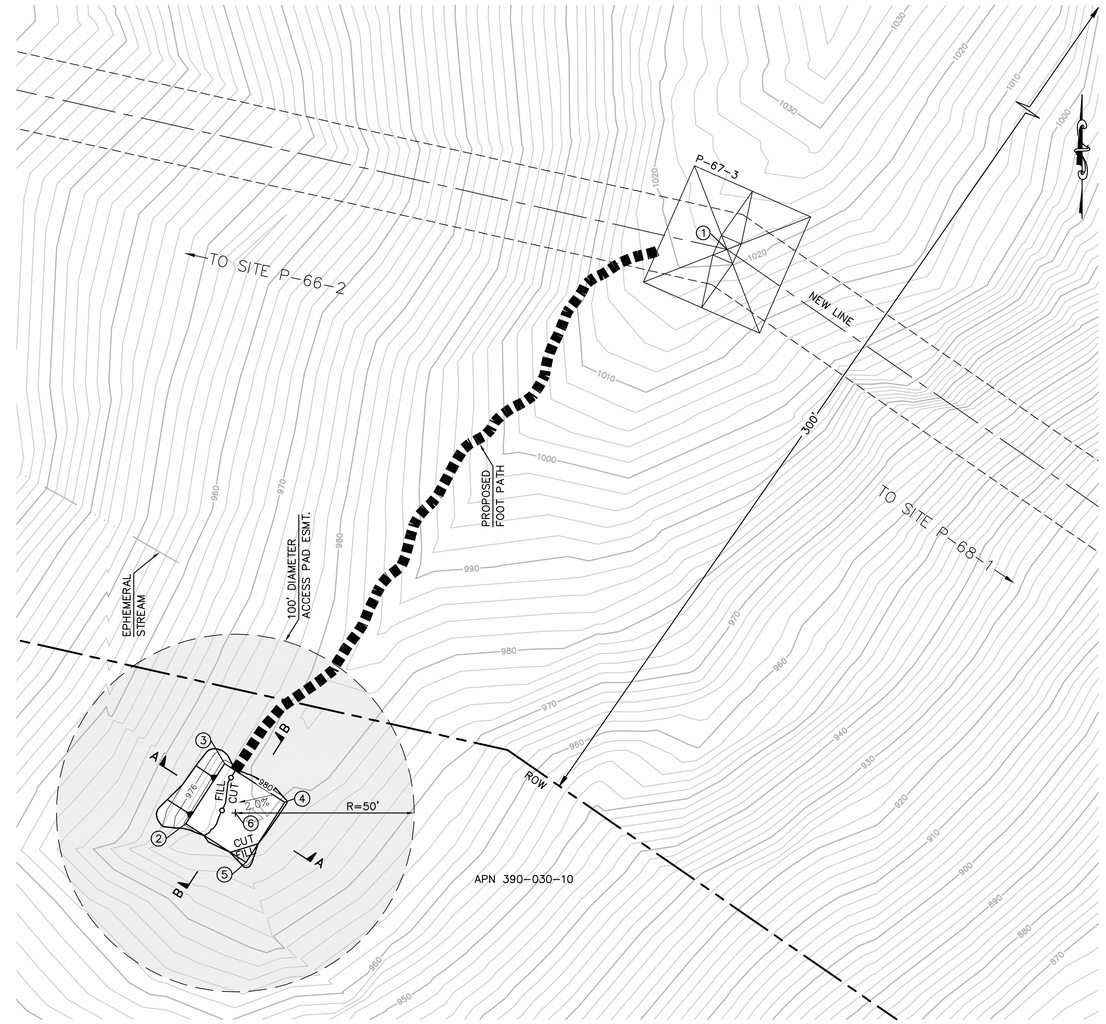
SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'



EARTH QUANTITIES:
CUT: 10 CY
FILL: 8 CY
NET: 2 CY

DISTURBED AREA:
PAD: 930 SF
TOTAL: 930 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-67-3

(THIS IS NOT A HELIPORT)

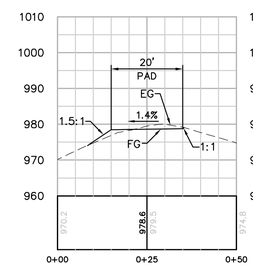
SCALE: 1" = 20'

GRAPHIC SCALE 20 0 20 40 1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

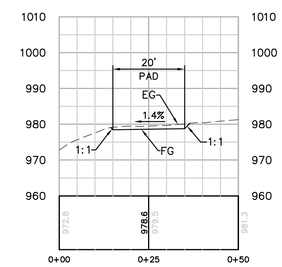
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-67-3	230 KV CXSD Dead-End Lattice Tower	22.04	118.50

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1905918.33	6382516.63	(1021.97)	P-67-3
2	1905757.83	6382365.38	978.33	FG
3	1905774.64	6382376.23	978.61	FG
4	1905763.79	6382393.03	978.89	FG
5	1905746.99	6382382.18	978.61	FG
6	1905760.81	6382379.20		RP



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P66-2 & 67-3 TSAP.dwg□May-21-2010\0:44

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH REG. NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

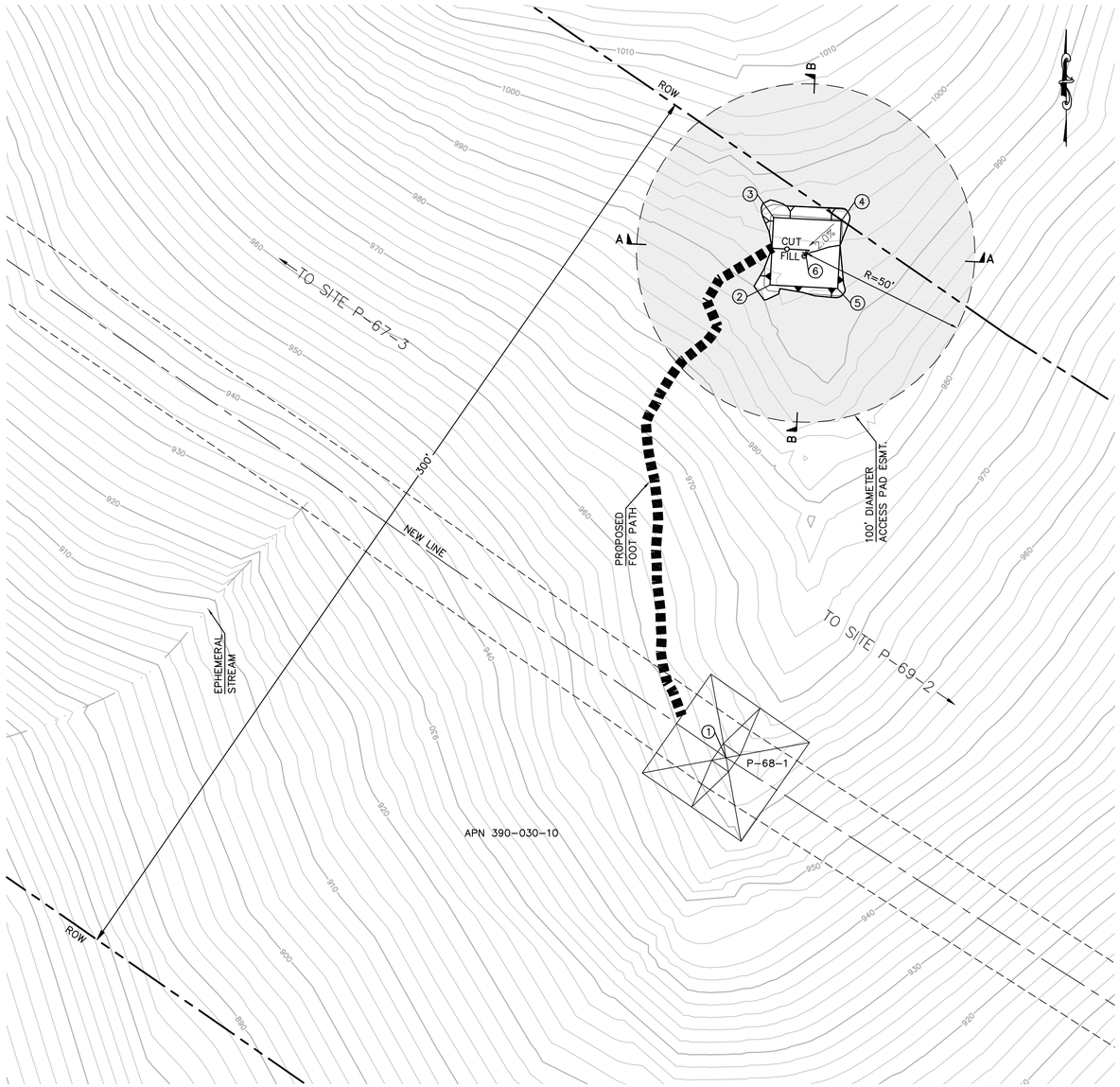
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

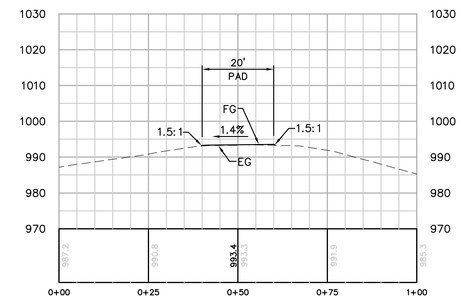
TOWER STAGING/ACCESS PAD FOR SITE P-66-2 & P-67-3

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05-P66-2&P67-3-TSAP
CAD NO.:		PLOT SCALE: 1 = 1	



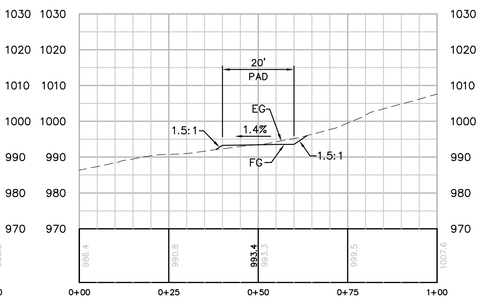
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1904728.28	6384235.39	(963.23)	P-68-1
2	1904867.94	6384248.41	993.16	FG
3	1904887.91	6384249.45	993.44	FG
4	1904886.87	6384269.43	993.72	FG
5	1904866.90	6384268.39	993.44	FG
6	1904877.40	6384258.92		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-68-1	230 KV CXSD Dead-End Lattice Tower	-2.21	130.50



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 9 CY
FILL: 7 CY
NET: 2 CY

DISTURBED AREA:
PAD: 804 SF
TOTAL: 804 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-68-1

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

P:\16919 SDG&E SPL\CADD\05\dwg\PLANN\HELIPADS\005-P68-1 TSAP.dwg\JMoy-21-20100956

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

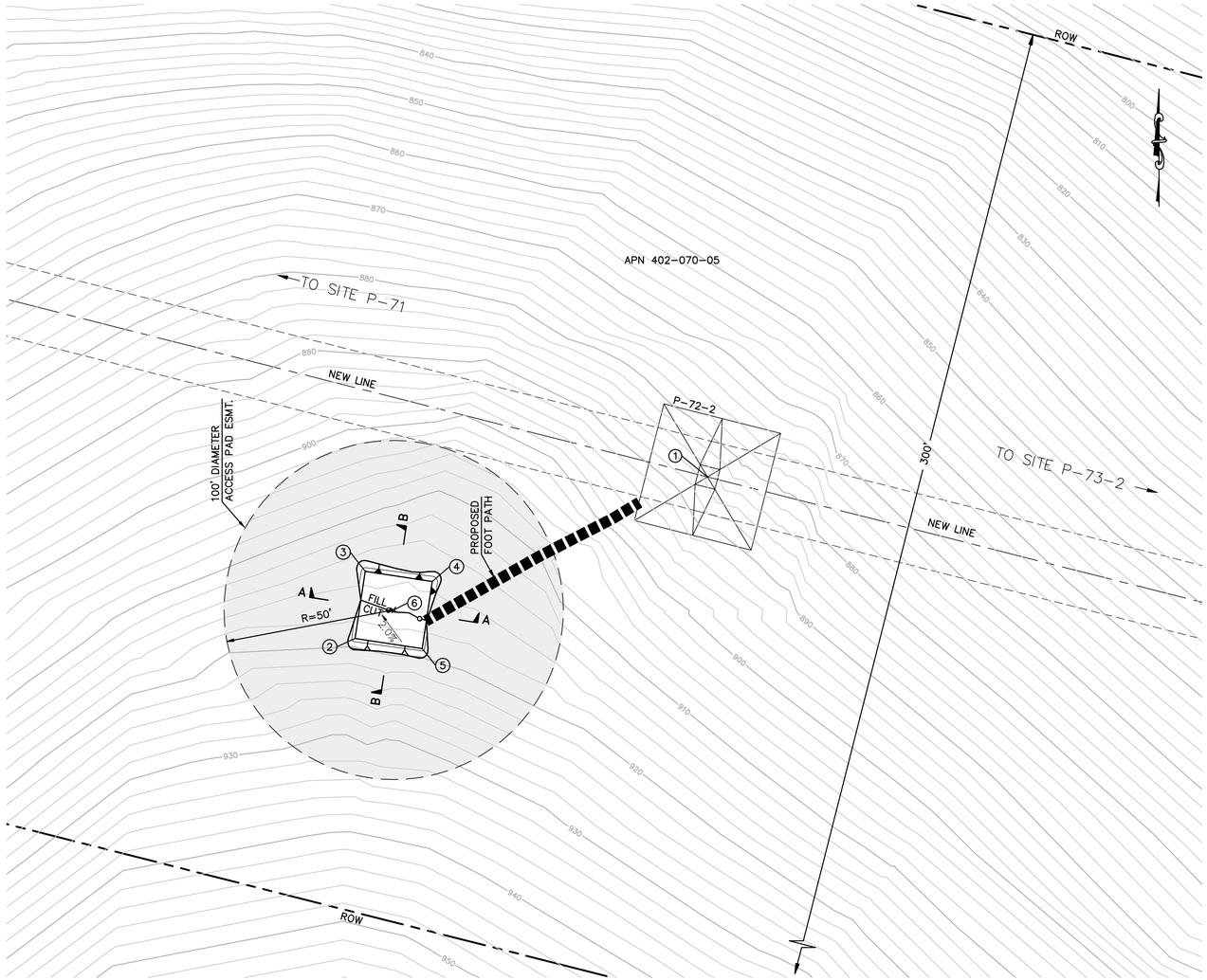
SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-68-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

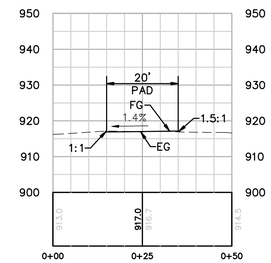
REV. 0

05-P68-1-TSAP



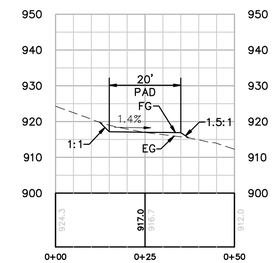
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1901049.10	6389883.73	(885.36)	P-72-2
2	1901001.47	6389779.84	917.03	FG
3	1901021.25	6389782.82	916.75	FG
4	1901018.27	6389802.59	917.03	FG
5	1900998.49	6389799.61	917.31	FG
6	1901009.87	6389791.22		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-72-2	230 KV CXPT Tangent Lattice Tower	0.00	139.00



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:
CUT: 9 CY
FILL: 7 CY
NET: 2 CY

DISTURBED AREA:
PAD: 571 SF
TOTAL: 571 SF

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-72-2

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P72-2 TSAP.dwg\JMay-21-2010@9:58

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2946
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
RCE 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

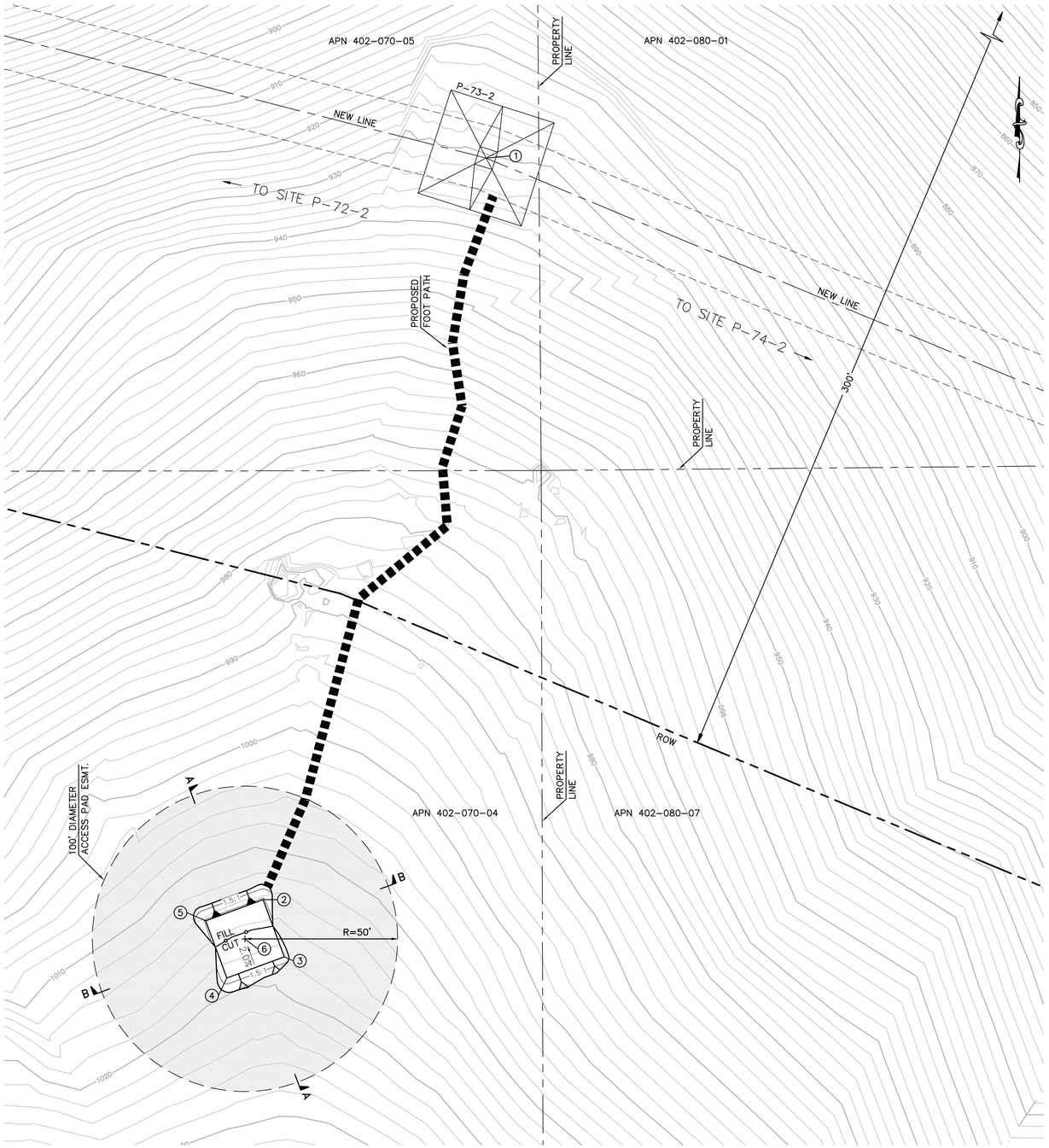
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-72-2

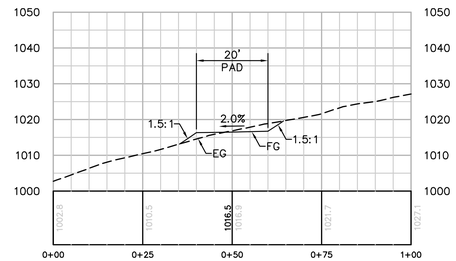
DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P72-2-TSAP



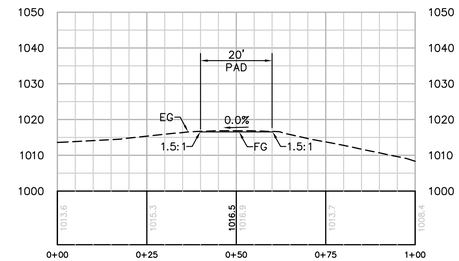
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1900843.08	6390696.29	(930.50)	P-73-2
2	1900600.25	6390623.24	1016.32	FG
3	1900581.49	6390630.16	1016.72	FG
4	1900574.57	6390611.40	1016.72	FG
5	1900593.33	6390604.48	1016.32	FG
6	1900587.41	6390617.32		RP

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-73-2	230 KV CXTA Angle Lattice Tower	8.43	124.00



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

EARTH QUANTITIES:

CUT: 14 CY
FILL: 10 CY
NET: 4 CY

DISTURBED AREA:

PAD: 686 SF
TOTAL: 686 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-73-2

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE

20 0 20 40

1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SUTTON
NO. 29700
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

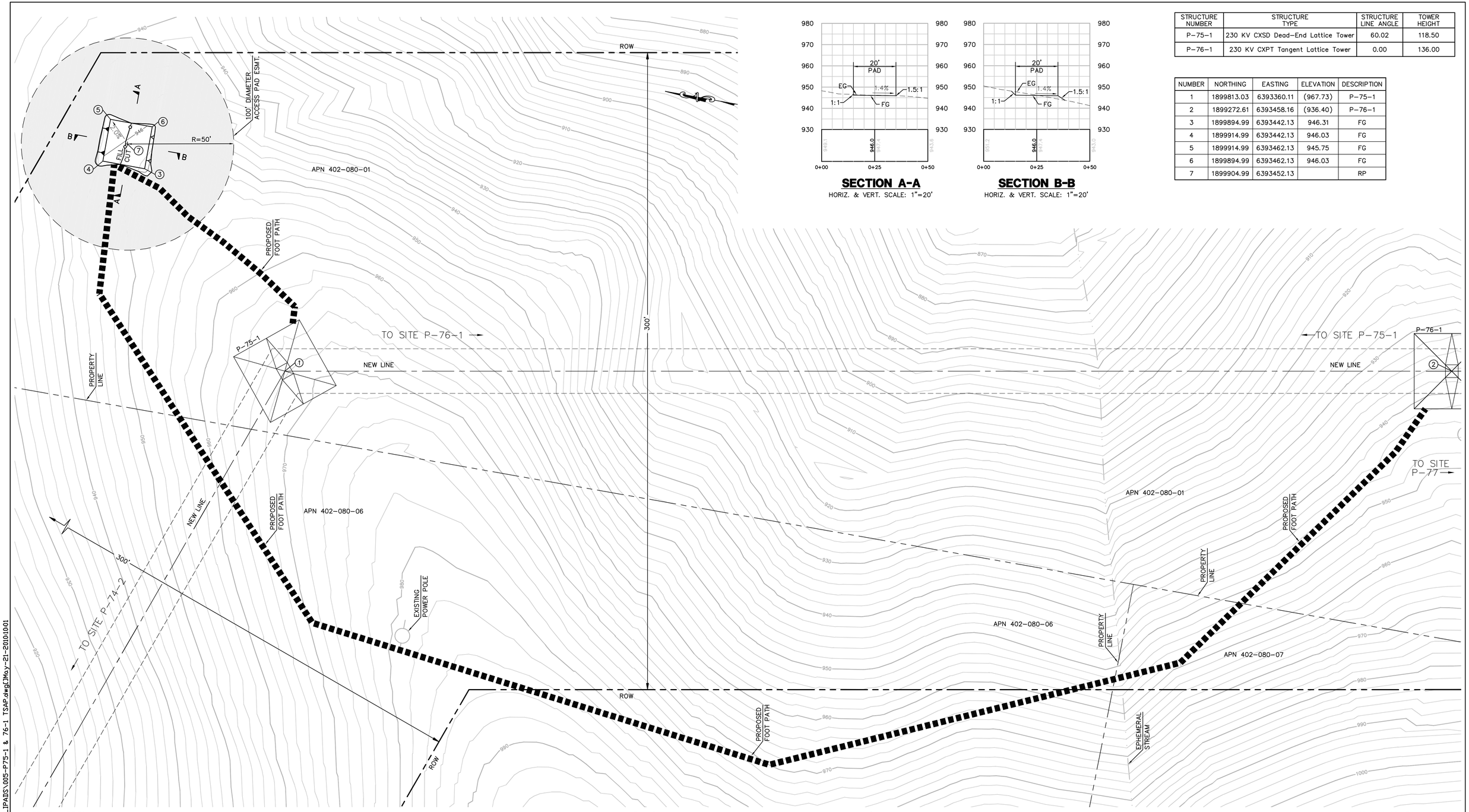
SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-73-2

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P73-2-TSAP

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P73-2 TSAP.dwg|DMoy-21-20101001



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'

SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-75-1	230 KV CXSD Dead-End Lattice Tower	60.02	118.50
P-76-1	230 KV CXPT Tangent Lattice Tower	0.00	136.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1899813.03	6393360.11	(967.73)	P-75-1
2	1899272.61	6393458.16	(936.40)	P-76-1
3	1899894.99	6393442.13	946.31	FG
4	1899914.99	6393442.13	946.03	FG
5	1899914.99	6393462.13	945.75	FG
6	1899894.99	6393462.13	946.03	FG
7	1899904.99	6393452.13		RP

EARTH QUANTITIES:
CUT: 9 CY
FILL: 7 CY
NET: 2 CY

DISTURBED AREA:
PAD: 566 SF
TOTAL: 566 SF

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-75-1 & P-76-1

(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE
20 0 20 40
1"=20'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P75-1 & 76-1 TSAP.dwg\DMay-21-2010\001

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-75-1 & P-76-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:		PLOT SCALE: 1 = 1		

05-P75-1 & P76-1-TSAP

EARTH QUANTITIES:
CUT: 9 CY
FILL: 7 CY
NET: 2 CY

DISTURBED AREA:
PAD: 555 SF
TOTAL: 555 SF

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-78-2

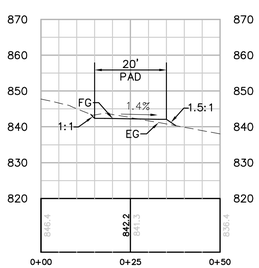
(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE 20 0 20 40 1"=20'

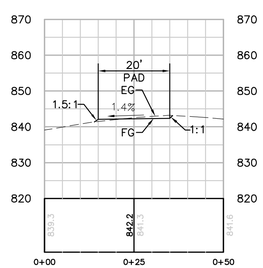
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-78-2	230 KV CXPT Tangent Lattice Tower	0.00	130.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1897589.73	6393540.99	(879.64)	P-78-2
2	1897567.03	6393660.59	842.23	FG
3	1897587.02	6393660.28	842.51	FG
4	1897587.33	6393680.27	842.23	FG
5	1897567.34	6393680.58	841.95	FG
6	1897577.18	6393670.43		RP



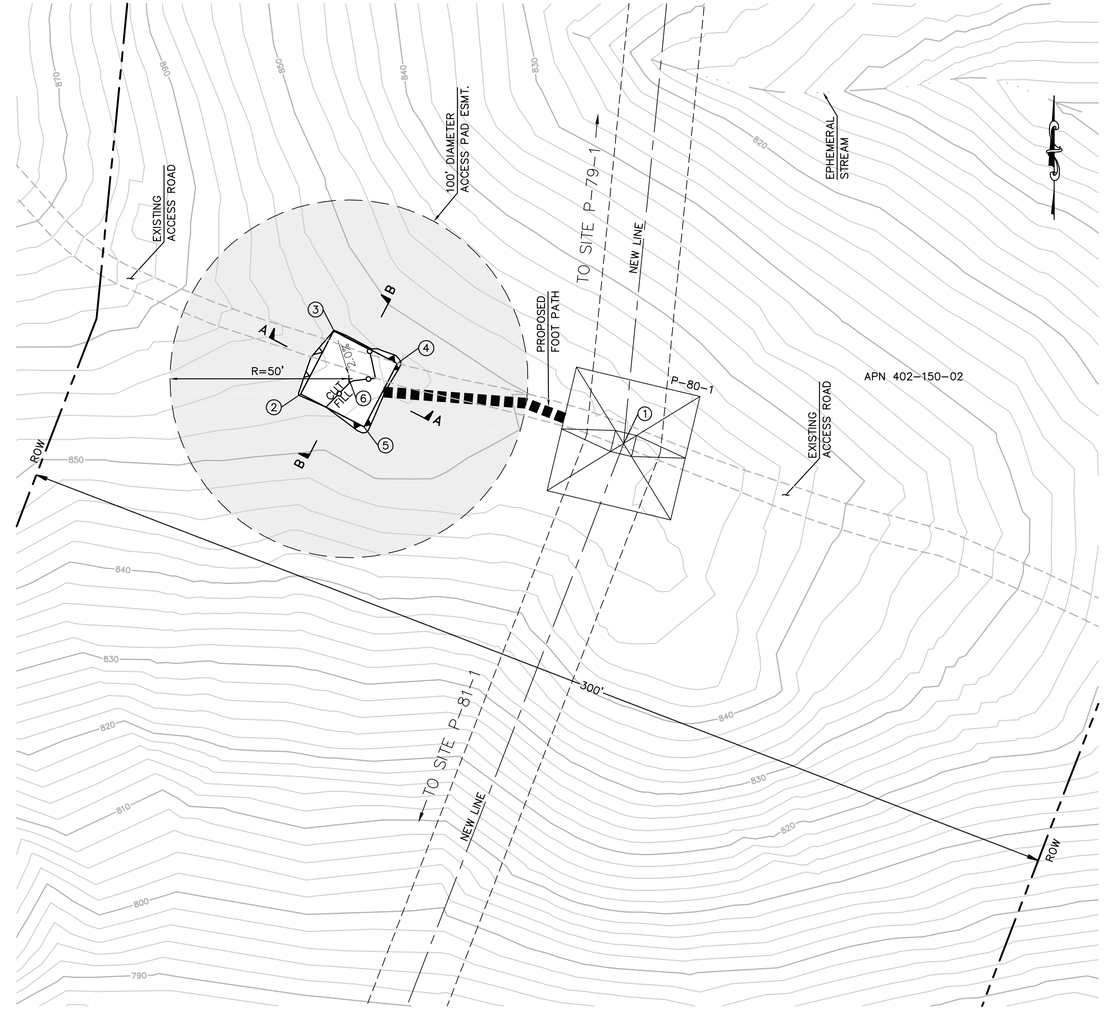
SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'



EARTH QUANTITIES:
CUT: 4 CY
FILL: 3 CY
NET: 1 CY

DISTURBED AREA:
PAD: 476 SF
TOTAL: 476 SF

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

TOWER STAGING/ACCESS PAD FOR TOWER P-80-1

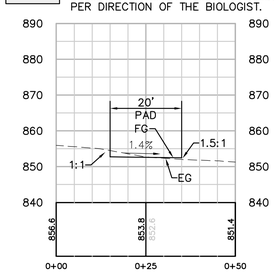
(THIS IS NOT A HELIPORT)

SCALE: 1" = 20'

GRAPHIC SCALE 20 0 20 40 1"=20'

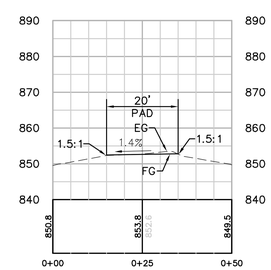
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-80-1	230 KV CXTA Angle Lattice Tower	15.46	151.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1896156.43	6393400.47	(848.17)	P-80-1
2	1896170.27	6393310.25	852.63	FG
3	1896188.01	6393319.49	852.91	FG
4	1896178.77	6393337.22	852.63	FG
5	1896161.03	6393327.98	852.35	FG
6	1896174.52	6393323.74		RP



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\HELIPADS\005-P78-2 & 80-1 TSAP.dwg[May-21-2010]0:02

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp.3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-78-2 & P-80-1

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

REV. 0

05-P78-2&P80-1-TSAP

EARTH QUANTITIES:
CUT: 8 CY
FILL: 6 CY
NET: 2 CY

DISTURBED AREA:
PAD: 526 SF
TOTAL: 526 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-82-1

(THIS IS NOT A HELIPORT)

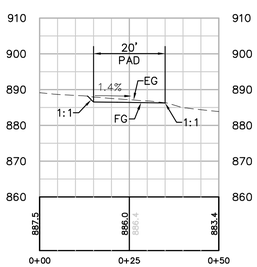
SCALE: 1" = 20'

GRAPHIC SCALE 20 0 20 40 1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

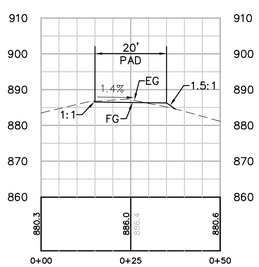
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-82-1	230 KV CXPT Tangent Lattice Tower	0.00	148.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1894464.63	6392938.15	(875.27)	P-82-1
2	1894502.86	6392807.10	886.68	FG
3	1894522.68	6392809.82	886.40	FG
4	1894519.96	6392829.64	886.12	FG
5	1894500.14	6392826.92	886.40	FG
6	1894511.41	6392818.37		RP



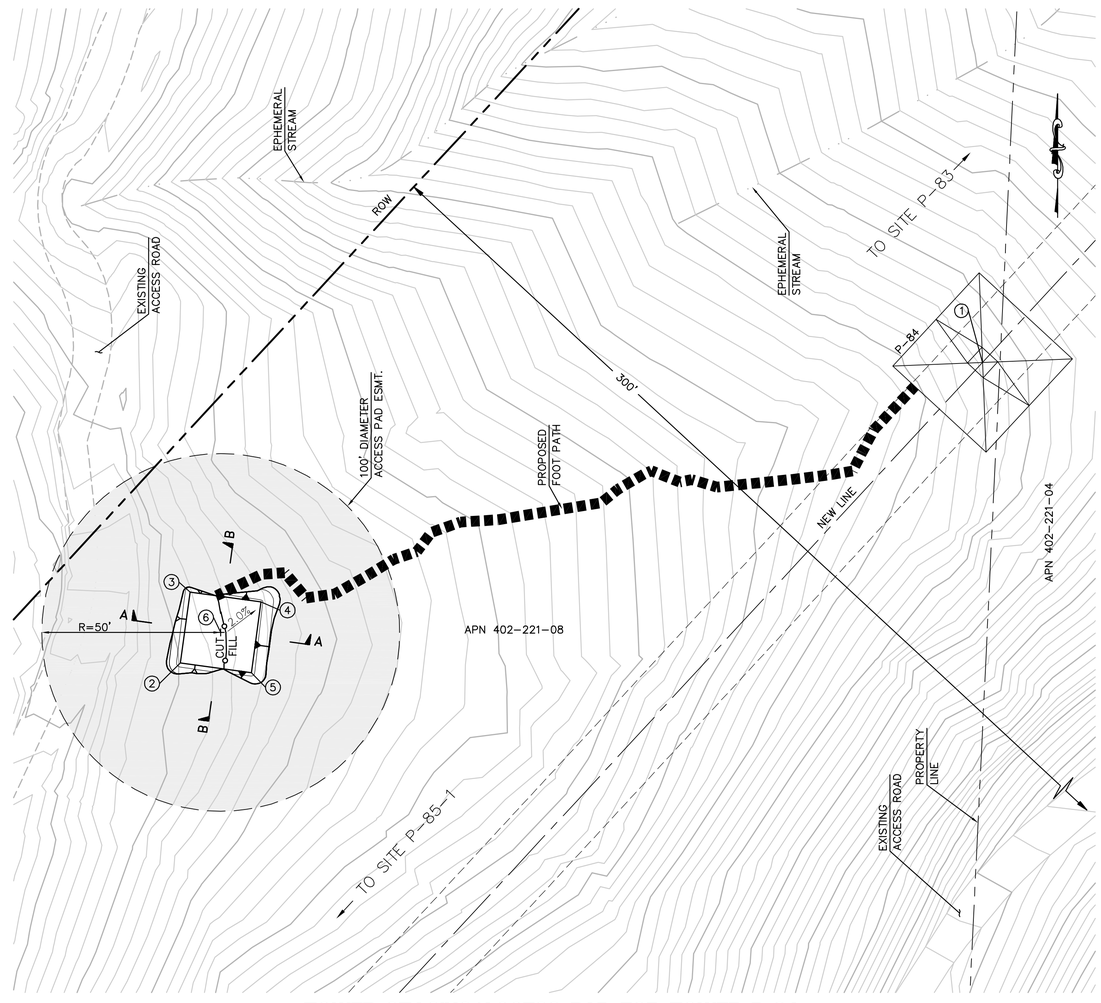
SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'



EARTH QUANTITIES:
CUT: 13 CY
FILL: 11 CY
NET: 2 CY

DISTURBED AREA:
PAD: 648 SF
TOTAL: 648 SF

TOWER STAGING/ACCESS PAD FOR TOWER P-84

(THIS IS NOT A HELIPORT)

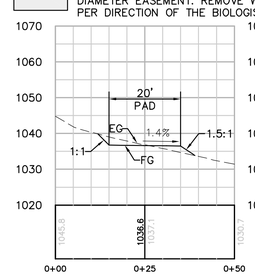
SCALE: 1" = 20'

GRAPHIC SCALE 20 0 20 40 1"=20'

PER ONSITE BIOLOGIST, MOW VEGETATION TO A HEIGHT OF 6 INCHES BUT NOT LESS THAN 4 INCHES AND REMOVE CUTTINGS FROM 100' DIAMETER EASEMENT. REMOVE WEEDS AND SPREAD NATIVE SEED MIX PER DIRECTION OF THE BIOLOGIST.

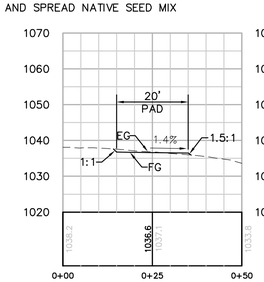
STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-84	230 KV CXPT Tangent Lattice Tower	0.00	151.00

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1892532.39	6392055.75	(983.64)	P-84
2	1892448.38	6391831.58	1036.89	FG
3	1892468.20	6391834.30	1036.61	FG
4	1892465.48	6391854.12	1036.33	FG
5	1892445.66	6391851.40	1036.61	FG
6	1892456.93	6391842.85		RP



SECTION A-A

HORIZ. & VERT. SCALE: 1"=20'



SECTION B-B

HORIZ. & VERT. SCALE: 1"=20'

P:\16919 SDG&E SPL\CAD\05\dwg\PLAN\HELIPADS\005-P82-1 & 84 TSAP.dwg\May-21-2010\0955

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

TOWER STAGING/ACCESS PAD FOR SITE P-82-1 & P-84

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

REV. 0

05-P82-1 & P84-TSAP

GRAPHIC SCALE
10 0 10 20
1"=10'

STRUCTURE NUMBER	STRUCTURE TYPE	STRUCTURE LINE ANGLE	TOWER HEIGHT
P-60	230 KV CXSD Dead-End Lattice Tower	27.80	145.50

TEMPORARY COMMUNICATION TOWER LAYOUT

SCALE: 1" = 10'

NUMBER	NORTHING	EASTING	DESCRIPTION
1	1905566.79	6372225.34	CORNER
2	1905573.59	6372231.24	CORNER
3	1905560.48	6372246.34	CORNER
4	1905553.69	6372240.44	CORNER

P:\16919 SDG&E SPL\Helipads\Cadd\CDMM\Plan\Section 5\005-P60 CDMM.dwg[Mkay-21-2010]0:56

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

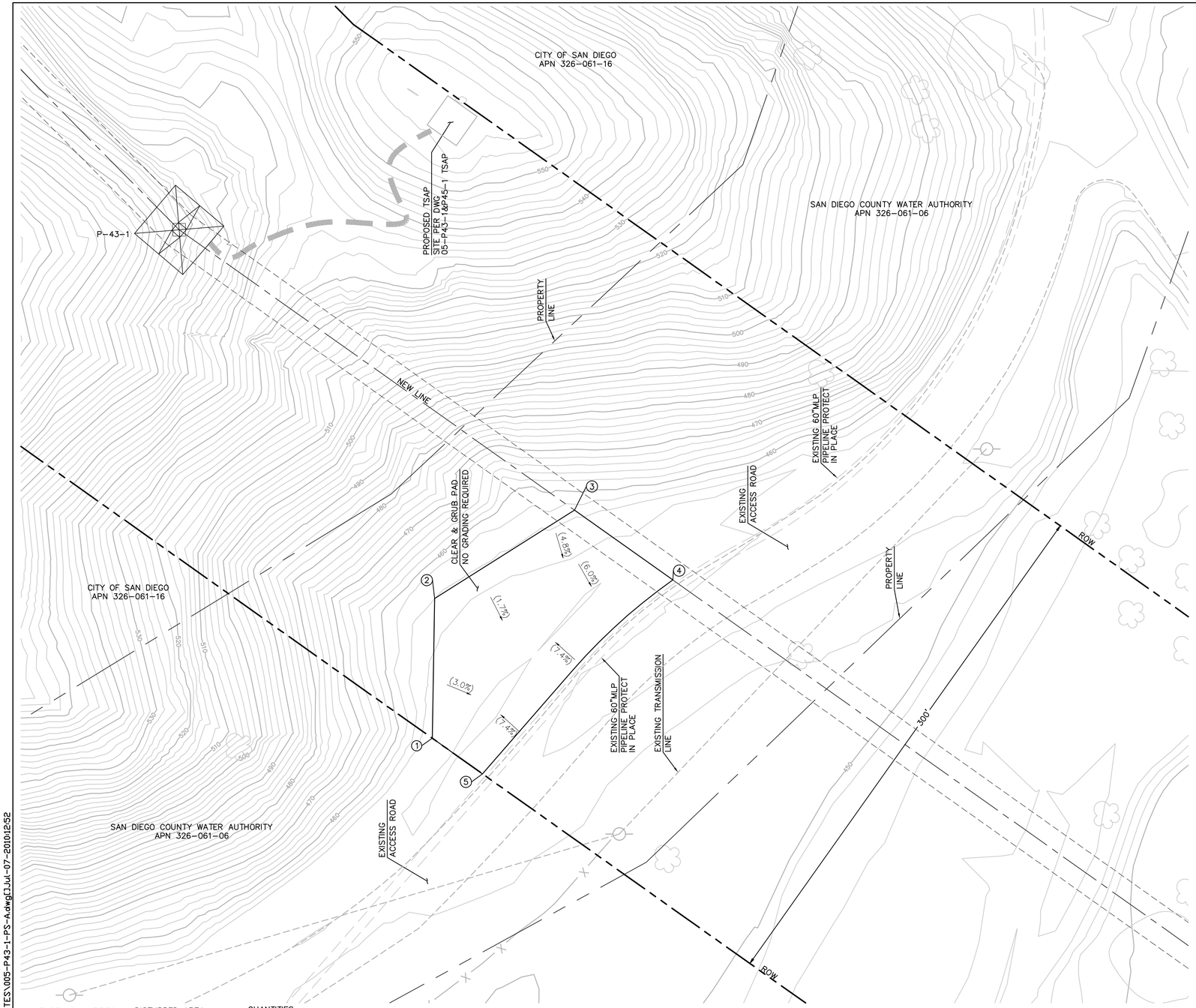
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
P-60 TEMPORARY COMMUNICATION TOWER

DRAWN BY: 00	DATE:	SCALE: 1" = 20'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P60 COMM



NUMBER	NORTHING	EASTING	DESCRIPTION
1	1910213.59	6353042.89	EG
2	1910291.73	6353044.23	EG
3	1910341.11	6353122.35	EG
4	1910302.07	6353177.39	EG
5	1910193.64	6353070.87	EG

EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA:
PULLSITE: 10,202 SF
TOTAL: 10,202 SF

QUANTITIES:

PULL SITE P-43-1 PLAN (SOUTH) (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

NOTE: USE OF THE PULL SITE SHALL BE COORDINATED WITH SDG&E CONSTRUCTION MANAGEMENT AND THE SAN DIEGO COUNTY WATER AUTHORITY

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
RCE 29708
Exp.3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

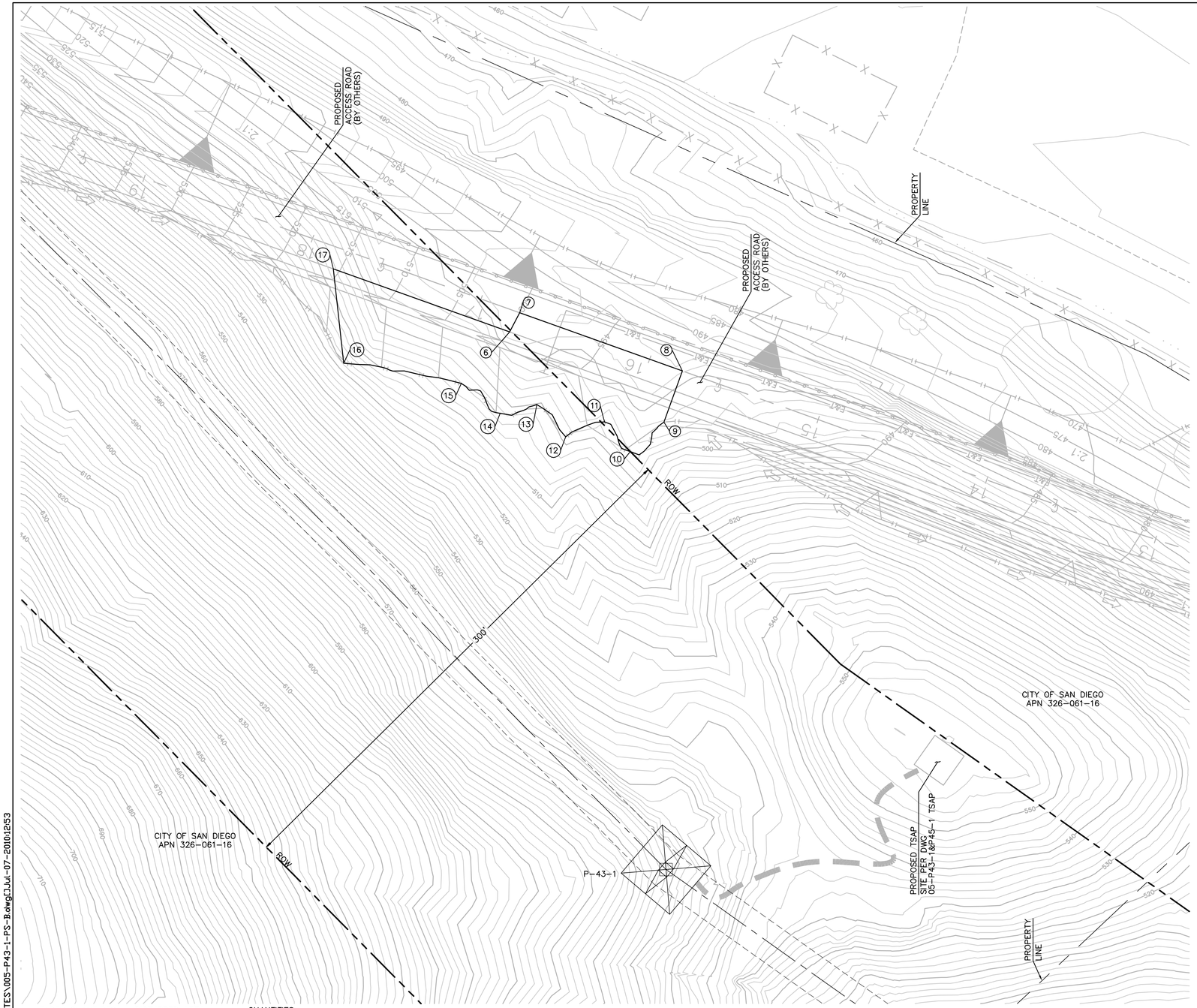
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
PULL SITE P-43-1 (SOUTH)

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P43-1-PS-A

P:\16919 SDG&E SPL\CADD\05\dwg\PLANNPULLSITES\005-P43-1-PS-A.dwg[JJul-07-2010]2:52



NUMBER	NORTHING	EASTING	DESCRIPTION
6	1910798.17	6352814.00	EG
7	1910808.91	6352819.62	EG
8	1910776.38	6352910.47	EG
9	1910747.81	6352900.24	EG
10	1910731.34	6352881.44	EG
11	1910747.93	6352867.07	EG
12	1910739.60	6352845.31	EG
13	1910757.56	6352829.19	EG
14	1910752.68	6352808.70	EG
15	1910769.40	6352787.06	EG
16	1910780.75	6352721.36	EG
17	1910833.41	6352715.55	EG

EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA:
PULLSITE: 8,674 SF
TOTAL: 8,674 SF

QUANTITIES:

PULL SITE P-43-1 PLAN (NORTH) (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

NOTE: USE OF THE PULL SITE SHALL BE COORDINATED WITH SDG&E CONSTRUCTION MANAGEMENT AND THE SAN DIEGO COUNTY WATER AUTHORITY

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P43-1-PS-B.dwg[]Jul-07-2010:2:53

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

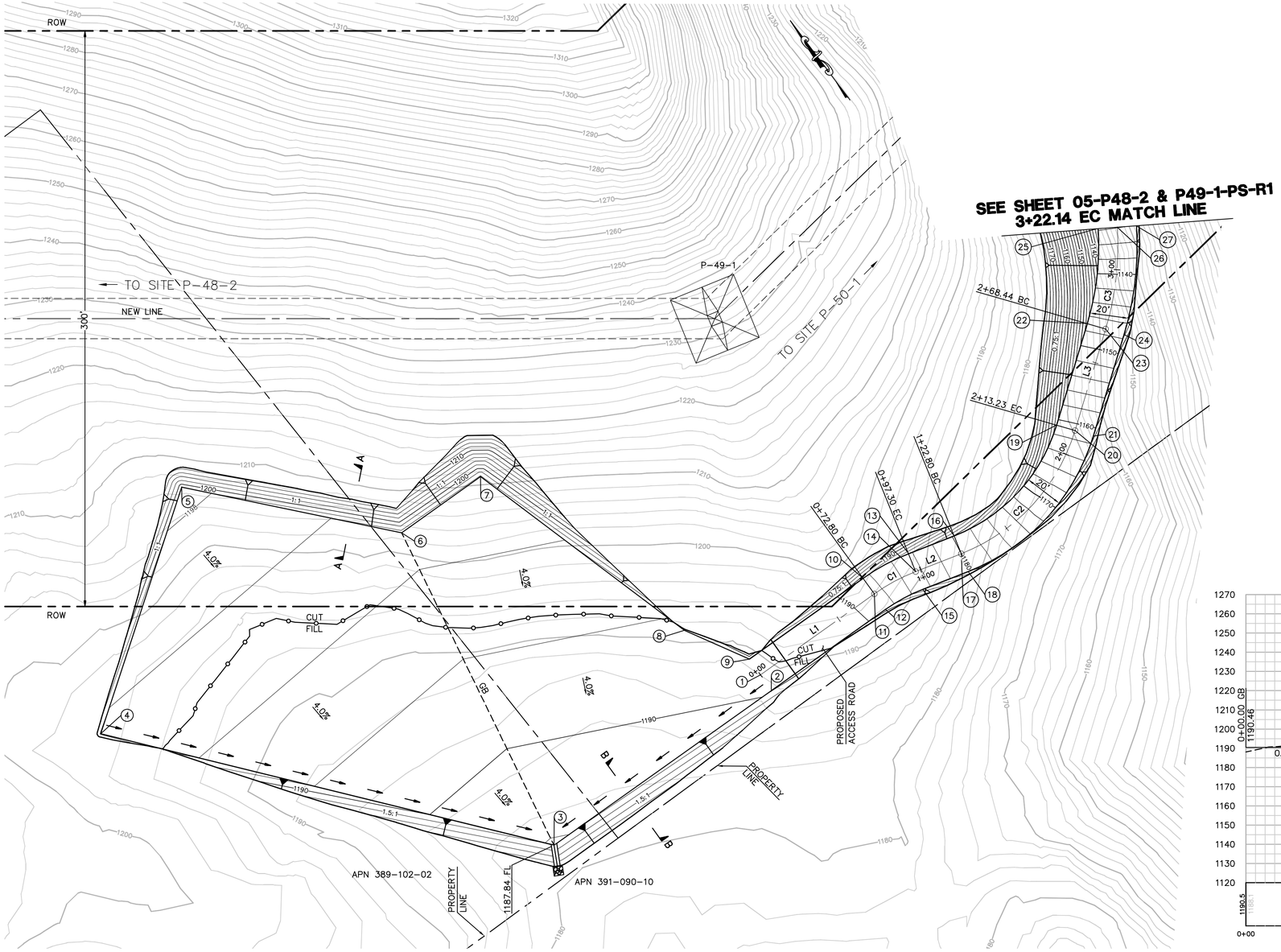
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

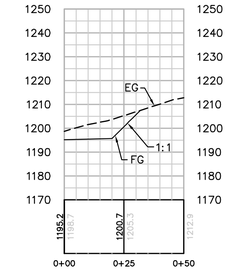
SPL-05 (LINK 5)
PULL SITE P-43-1 (NORTH)

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

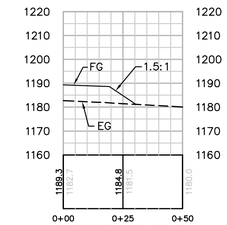
05-P43-1-PS-B



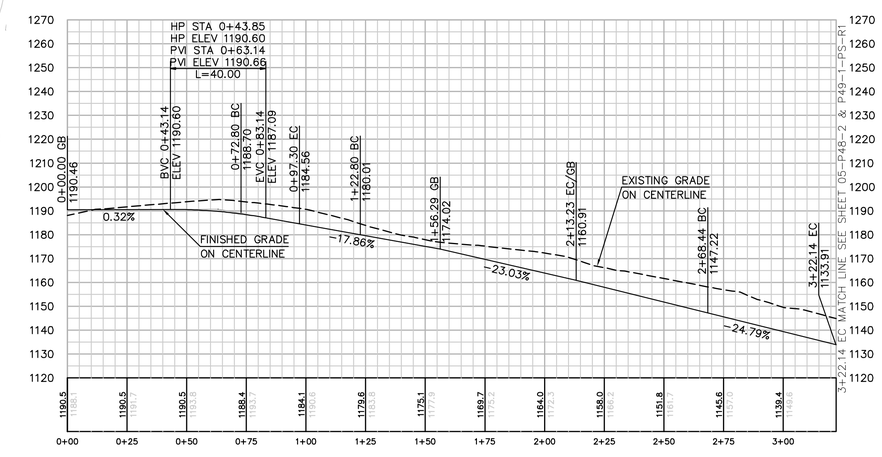
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1902363.27	6359038.99	1190.46	CL
2	1902353.15	6359038.32	1190.00	FG
3	1902357.45	6358899.67	1187.85	FG
4	1902546.37	6358746.46	1195.71	FG
5	1902623.31	6358857.69	1198.50	FG
6	1902535.13	6358934.67	1194.82	FG
7	1902533.75	6358985.10	1195.64	FG
8	1902405.71	6359021.38	1191.68	FG
9	1902373.27	6359039.29	1190.82	FG
10	1902371.08	6359112.06	1188.50	BC
11	1902361.08	6359111.76	1188.70	CL/BC
12	1902351.09	6359111.46	1188.90	BC
13	1902366.99	6359138.63	1184.36	EC
14	1902357.37	6359135.92	1184.56	CL/EC
15	1902347.74	6359133.20	1184.76	EC
16	1902360.07	6359163.17	1179.81	BC
17	1902350.44	6359160.45	1180.01	CL/BC
18	1902340.82	6359157.74	1180.21	BC
19	1902373.92	6359240.58	1160.71	EC
20	1902365.83	6359246.47	1160.91	CL/EC
21	1902357.75	6359252.35	1161.11	EC
22	1902406.41	6359285.23	1147.02	BC
23	1902398.33	6359291.11	1147.22	CL/BC
24	1902390.24	6359297.00	1147.42	BC
25	1902442.46	6359319.66	1133.71	EC
26	1902436.95	6359328.01	1133.91	CL/EC
27	1902431.44	6359336.35	1134.11	EC



SECTION A-A
HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B
HORIZ. & VERT. SCALE: 1" = 30'



PROFILE: ACCESS ROAD TO PULL SITE P-48-2 & P-49-1
HORIZ. & VERT. SCALE: 1" = 30'

EARTH QUANTITIES:
CUT: 5,266 CY
FILL: 3,796 CY
NET: 1,470 CY

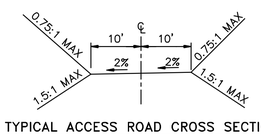
DISTURBED AREA:
PULLSITE: 48,705 SF
ROAD: 10,400 SF
TOTAL: 59,105 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 11 LF

LENGTH OF ACCESS ROAD: 322 LF

PULL SITE P-48-2 & P-49-1 PLAN (TEMPORARY)
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 3+22.14 EC

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	100.00	24.51	14°02'25"
C2	100.00	90.43	51°48'49"
C3	150.00	53.70	20°30'42"
L1		72.80	S88°16'42"E
L2		25.49	S74°14'17"E
L3		55.22	N53°56'55"E

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

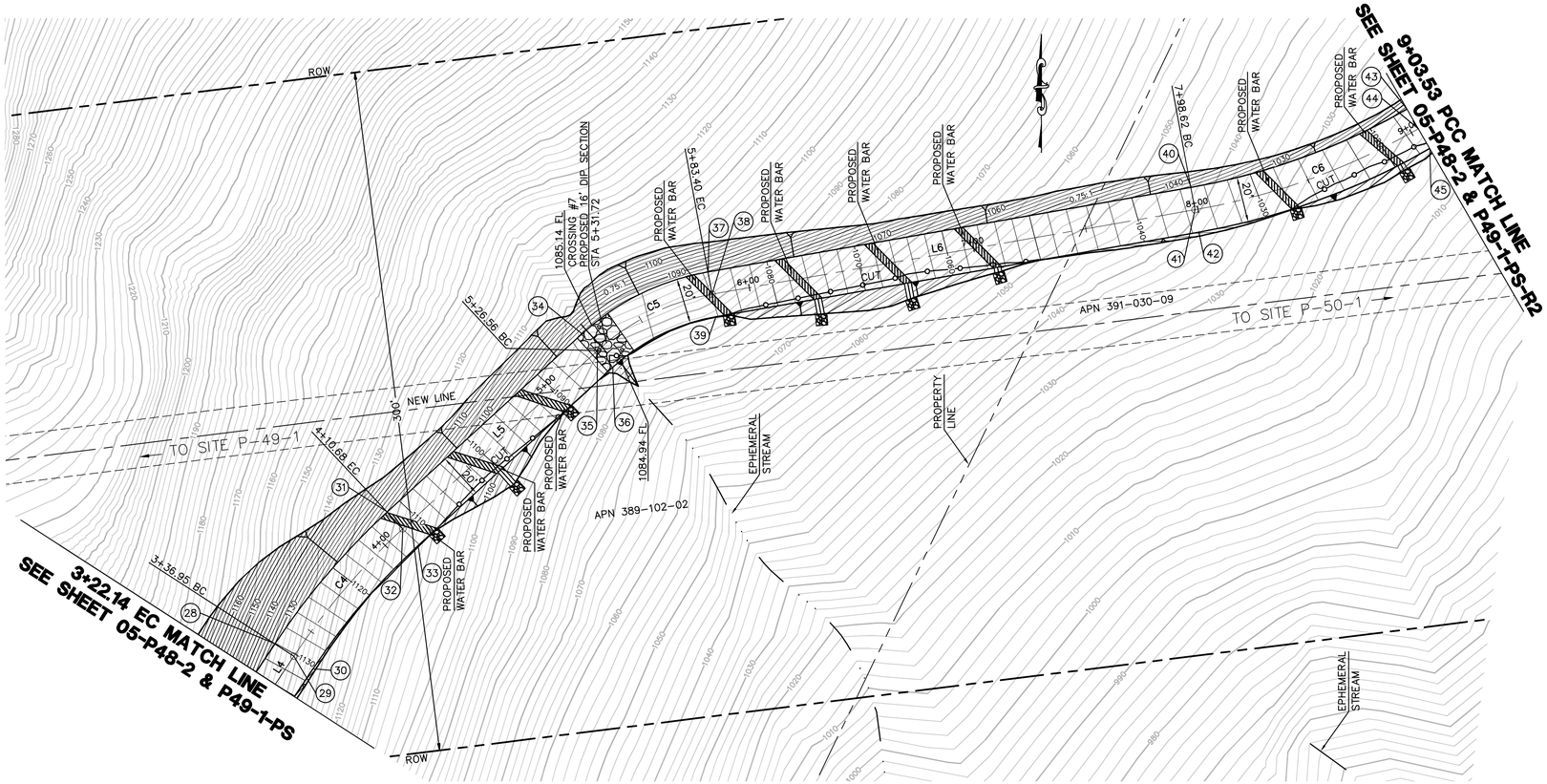
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
PULL SITE P-48-2 & P-49-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			05-P48-2 & P49-1-PS
CAD NO.:	PLOT SCALE: 1 = 1			

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P48-2 & P49-1-PS.dwg©May-20-2010 13:52



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C4	300.00	73.73	14°04'53"
C5	100.00	56.84	32°34'00"
C6	300.00	104.91	20°02'09"
L4		14.80	N33°26'12"E
L5		115.88	N47°31'05"E
L6		215.22	N80°05'06"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
28	1902454.81	6359327.82	1130.04	BC
29	1902449.30	6359336.16	1130.24	CL/BC
30	1902443.79	6359344.51	1130.44	BC
31	1902512.62	6359377.15	1111.77	EC
32	1902505.25	6359383.91	1111.97	CL/EC
33	1902497.87	6359390.66	1112.17	EC
34	1902590.88	6359462.61	1085.56	BC
35	1902583.51	6359469.37	1085.46	CL/BC
36	1902576.13	6359476.12	1085.36	BC
37	1902618.11	6359517.96	1085.75	EC
38	1902608.26	6359519.68	1085.95	CL/EC
39	1902598.41	6359521.41	1086.15	EC
40	1902655.17	6359729.97	1035.09	BC
41	1902645.32	6359731.69	1035.29	CL/BC
42	1902635.47	6359733.41	1035.49	BC
43	1902689.57	6359824.82	1016.79	PCC
44	1902680.91	6359829.81	1016.99	CL/PCC
45	1902672.24	6359834.80	1017.19	PCC

EARTH QUANTITIES:
CUT: 3,720 CY
FILL: 40 CY
NET: 3,680 CY
DIP SECTION EXPORT: 22 CY

DISTURBED AREA:
ROAD: 20,212 SF
TOTAL: 20,212 SF

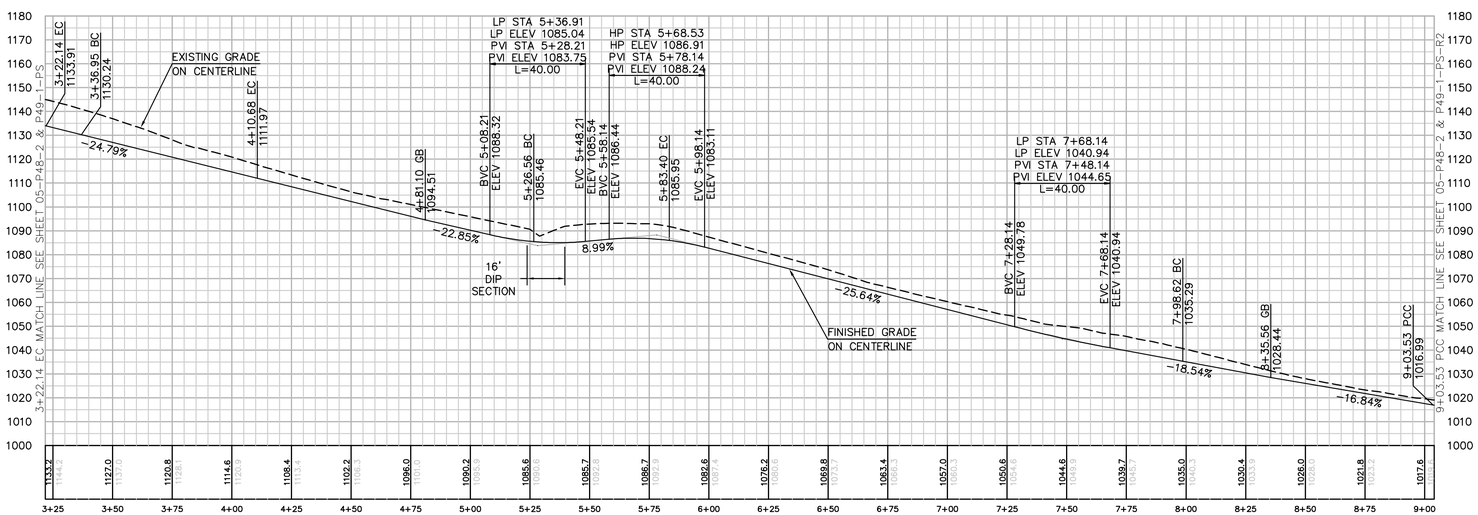
QUANTITIES:
RIP RAP: 225 SF
DOWN DRAIN: 26 LF
DIP SECTION: 320 SF

LENGTH OF ACCESS ROAD: 581 LF

ACCESS ROAD TO PULL SITE P-48-2 & P-49-1 PLAN (TEMPORARY)

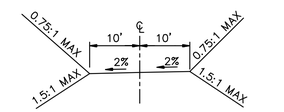
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

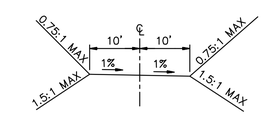


PROFILE: ACCESS ROAD TO PULLSITE P-48-2 & P-49-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 3+22.14 EC TO 5+13.72
STA 5+49.72 TO 9+03.53 PCC



TYPICAL ACCESS ROAD CROSS SECTION
STA 5+13.72 TO 5+49.72

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp. 3-31-17 CIVIL STATE OF CALIFORNIA

REVISIONS

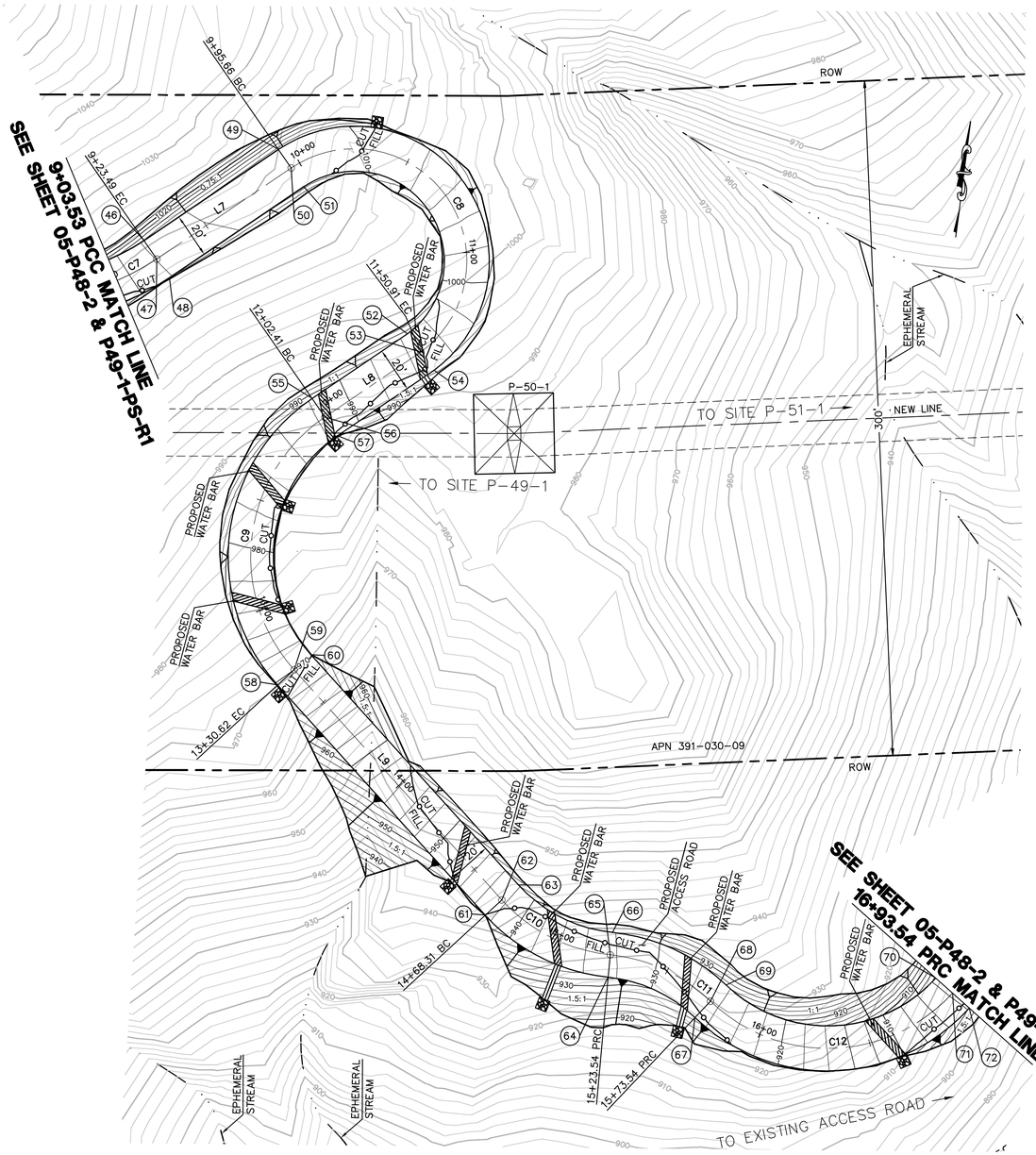
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		05-P48-2 & P49-1-PS-R1
CAD NO.:	PLOT SCALE: 1 = 1		

P:\16919 SDG&E SPL\CAD\05\dwg\PLAN\PULLSITES\005-P48-2 & P49-1-PS-R1.dwg[]May-20-2010|3:47



ACCESS ROAD TO PULL SITE P-48-2 & P-49-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE 30 0 30 60 1"=30'

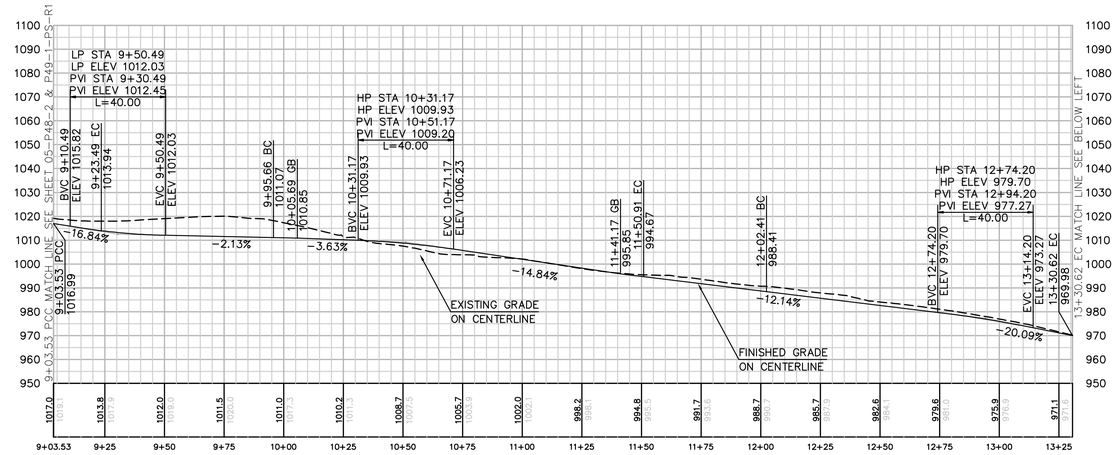
EARTH QUANTITIES:
CUT: 1,472 CY
FILL: 1,034 CY
NET: 438 CY

DISTURBED AREA:
ROAD: 24,049 SF
TOTAL: 24,049 SF

QUANTITIES:
RIP RAP: 250 SF
DOWN DRAIN: 29 LF

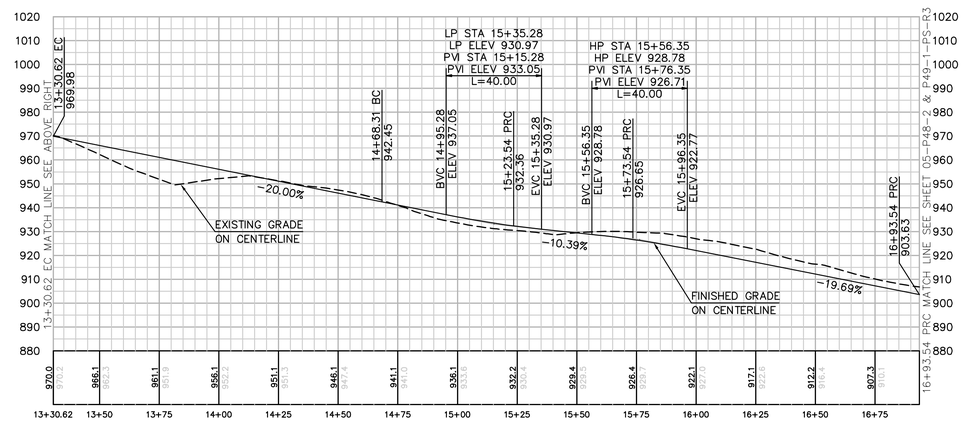
LENGTH OF ACCESS ROAD: 790 LF

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



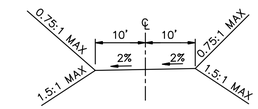
PROFILE: ACCESS ROAD TO PULLSITE P-48-2 & P-49-1

HORIZ. & VERT. SCALE: 1" = 30'

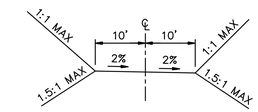


PROFILE: ACCESS ROAD TO PULLSITE P-48-2 & P-49-1

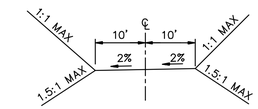
HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 9+03.53 PCC TO 11+20.00



TYPICAL ACCESS ROAD CROSS SECTION
STA 11+25.50 TO 13+95.00



TYPICAL ACCESS ROAD CROSS SECTION
STA 14+05.00 TO 16+93.54 PRC

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
46	1902700.03	6359839.39	1013.74	EC
47	1902692.53	6359846.00	1013.94	CL/EC
48	1902685.03	6359852.61	1014.14	EC
49	1902747.75	6359893.53	1010.87	BC
50	1902740.24	6359900.14	1011.07	CL/BC
51	1902732.74	6359906.76	1011.27	BC
52	1902673.72	6359960.73	994.47	EC
53	1902666.46	6359967.61	994.67	CL/EC
54	1902659.20	6359974.49	994.87	EC
55	1902639.89	6359922.37	988.21	BC
56	1902632.39	6359928.98	988.41	CL/BC
57	1902624.89	6359935.59	988.61	BC
58	1902511.65	6359923.21	969.78	EC
59	1902519.24	6359929.72	969.98	CL/EC
60	1902526.82	6359936.24	970.18	EC
61	1902421.95	6360027.67	942.65	BC
62	1902429.54	6360034.19	942.45	CL/BC
63	1902437.13	6360040.70	942.25	BC
64	1902401.47	6360085.34	932.56	PRC
65	1902411.47	6360085.07	932.36	CL/PRC

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
66	1902421.47	6360084.80	932.16	PRC
67	1902388.64	6360125.89	926.85	PRC
68	1902396.67	6360131.86	926.65	CL/PRC
69	1902404.69	6360137.83	926.45	PRC
70	1902419.57	6360229.89	903.43	PRC
71	1902413.84	6360238.08	903.63	CL/PRC
72	1902408.11	6360246.28	903.83	PRC

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C7	100.00	19.97	11°26'22"
C8	50.00	155.25	177°54'19"
C9	75.00	128.21	97°56'40"
C10	75.00	55.23	42°11'43"
C11	75.00	50.00	38°11'50"
C12	75.00	120.00	91°40'24"
L7		72.17	N48°36'34"E
L8		51.50	N48°35'44"E
L9		137.69	S49°20'56"E

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P48-2 & P49-1-PS-R2.dwg[Mon-20-20101346

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

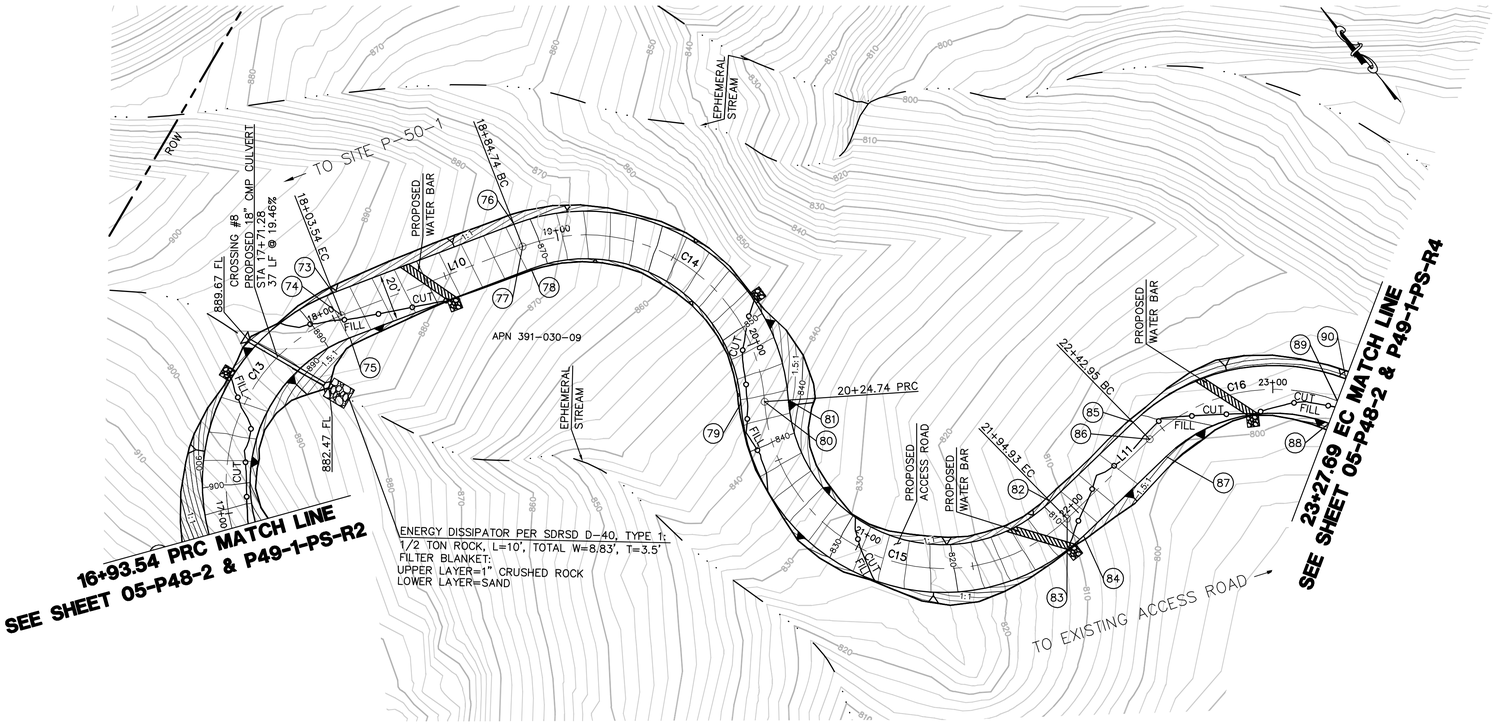
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P-48-2 & P49-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		05-P48-2 & P49-1-PS-R2	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C13	75.00	110.00	84°02'02"
C14	75.00	140.00	106°57'08"
C15	75.00	170.19	130°00'56"
C16	75.00	84.74	64°44'09"
L10		81.19	S60°59'11"E
L11		48.02	S84°02'59"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
73	1902445.18	6360340.76	887.49	EC
74	1902436.43	6360335.91	887.69	CL/EC
75	1902427.69	6360331.06	887.89	EC
76	1902405.80	6360411.77	871.25	BC
77	1902397.05	6360406.92	871.45	CL/BC
78	1902388.31	6360402.07	871.65	BC
79	1902284.73	6360415.72	843.65	PRC
80	1902277.54	6360422.67	843.45	CL/PRC
81	1902270.35	6360429.62	843.25	PRC
82	1902158.97	6360468.07	809.21	EC
83	1902149.03	6360467.03	809.41	CL/EC
84	1902139.08	6360465.99	809.61	EC
85	1902154.00	6360515.83	802.12	BC
86	1902144.05	6360514.79	802.32	CL/BC
87	1902134.10	6360513.76	802.52	BC
88	1902090.95	6360568.36	801.13	EC
89	1902094.26	6360577.80	800.93	CL/EC
90	1902097.57	6360587.23	800.73	EC

EARTH QUANTITIES:
CUT: 728 CY
FILL: 312 CY
NET: 417 CY

DISTURBED AREA:
ROAD: 16,437 SF
TOTAL: 16,437 SF

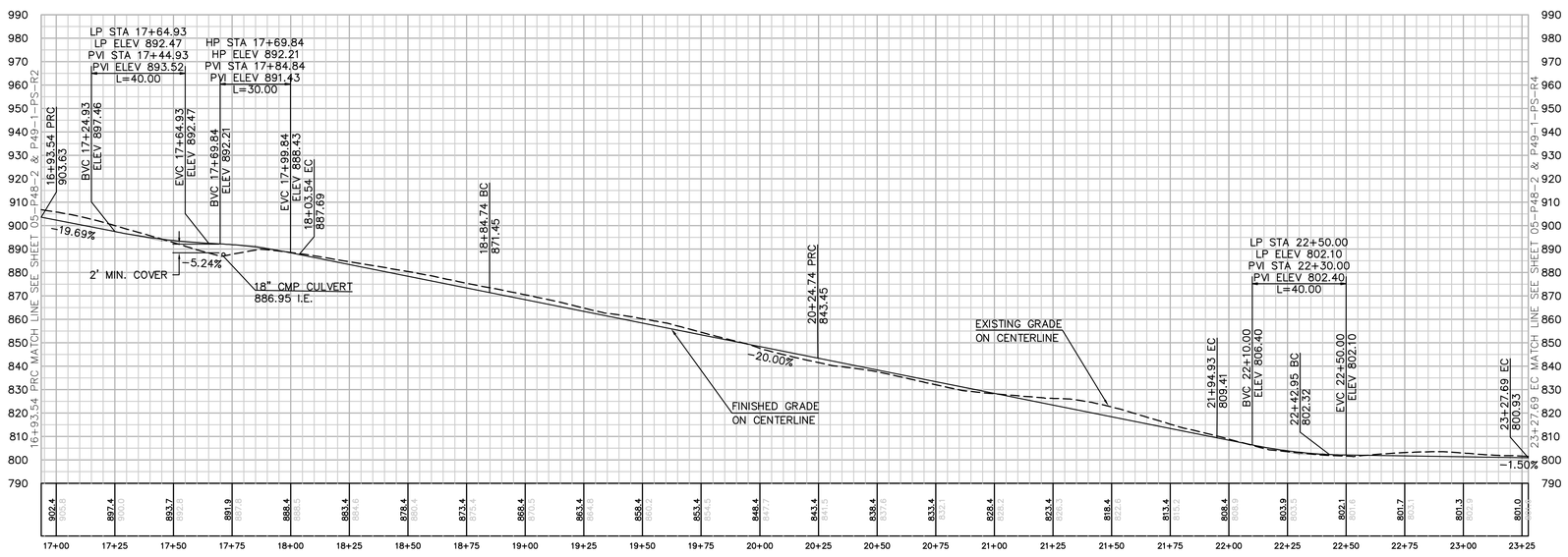
QUANTITIES:
RIP RAP: 125 SF
END SECTIONS: 2 EA
18" CMP CULVERT: 37 LF
ENERGY DISSIPATOR: 88 SF

LENGTH OF ACCESS ROAD: 634 LF

ACCESS ROAD TO PULL SITE P-48-2 & P-49-1 PLAN (TEMPORARY)

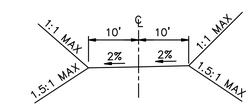
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



PROFILE: ACCESS ROAD TO PULLSITE P-48-2 & P-49-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 16+93.54 PRC TO 23+27.69 EC

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P48-2 & P49-1-PS-R3.dwg|DMoy-20-20101343

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
RCE 29708
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

REVISIONS

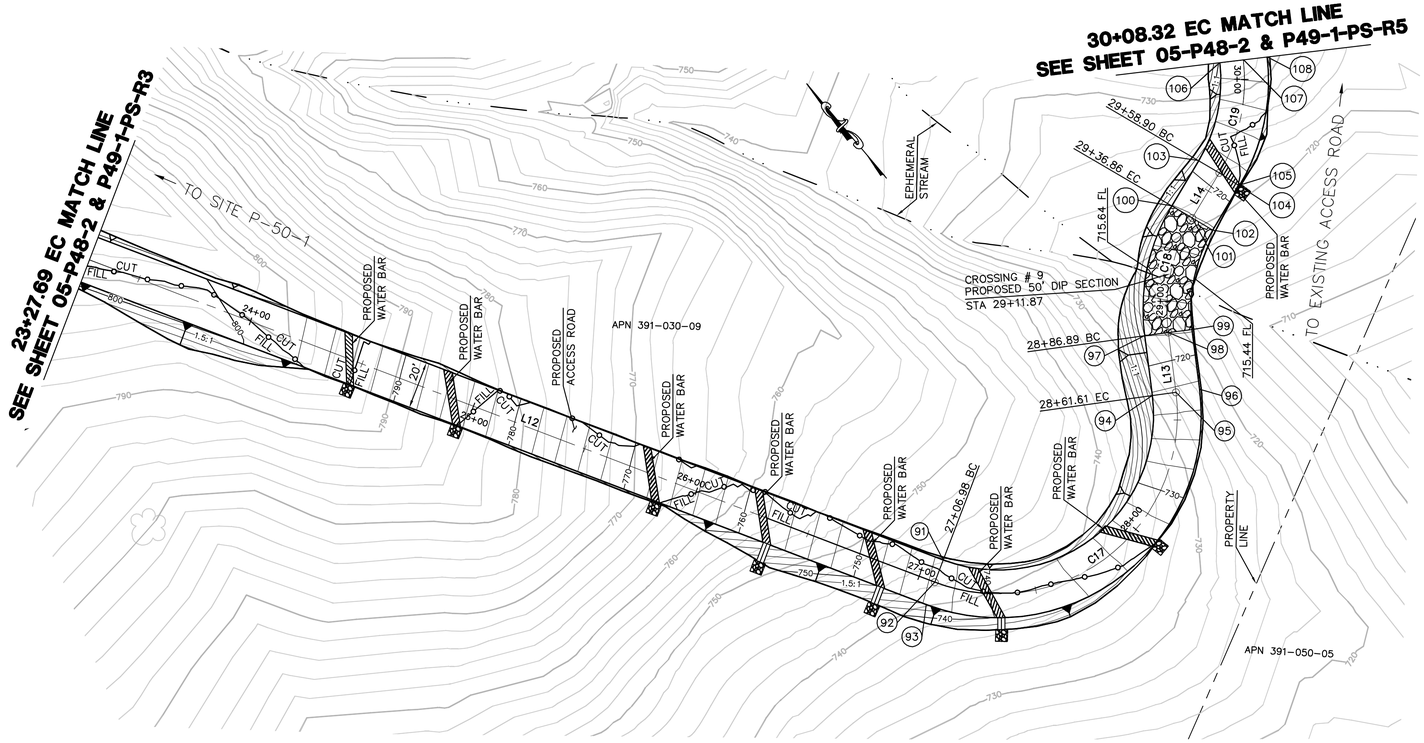
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P-48-2 & P49-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			05-P48-2 & P49-1-PS-R3
CAD NO.:		PLOT SCALE: 1 = 1		



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C17	75.00	154.63	118°07'40"
C18	75.00	49.97	38°10'38"
C19	75.00	49.42	37°45'21"
L12		379.30	S19°18'50"E
L13		25.27	N42°33'30"E
L14		22.04	N80°44'08"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
91	1901739.62	6360712.68	743.30	BC
92	1901736.31	6360703.25	743.50	CL/BC
93	1901733.00	6360693.81	743.70	BC
94	1901717.15	6360821.90	722.22	EC
95	1901710.39	6360829.27	722.42	CL/EC
96	1901703.63	6360836.64	722.62	EC
97	1901735.77	6360839.00	717.98	BC
98	1901729.01	6360846.36	717.88	CL/BC
99	1901722.24	6360853.73	717.78	BC
100	1901762.17	6360887.92	717.98	EC
101	1901752.30	6360889.53	717.88	CL/EC
102	1901742.43	6360891.14	717.78	EC
103	1901765.72	6360909.67	720.73	BC
104	1901755.85	6360911.28	720.93	CL/BC
105	1901745.98	6360912.89	721.13	BC
106	1901785.56	6360946.76	729.52	EC
107	1901778.74	6360954.08	729.72	CL/EC
108	1901771.93	6360961.40	729.92	EC

EARTH QUANTITIES:
CUT: 740 CY
FILL: 319 CY
NET: 421 CY
DIP SECTION EXPORT: 68 CY

DISTURBED AREA:
ROAD: 17,613 SF
TOTAL: 17,613 SF

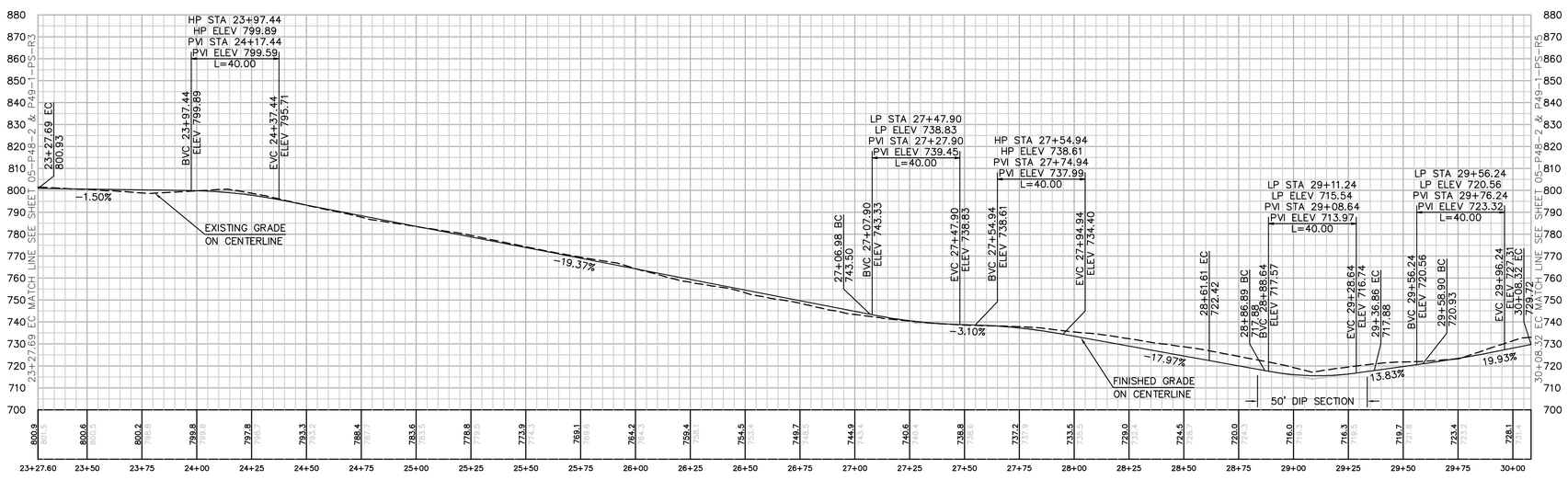
QUANTITIES:
RIP RAP: 200 SF
DOWN DRAIN: 21 LF
DIP SECTIONS: 1000 SF

LENGTH OF ACCESS ROAD: 681 LF

ACCESS ROAD TO PULL SITE P-48-2 & P-49-1 PLAN (TEMPORARY)

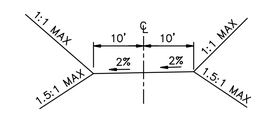
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

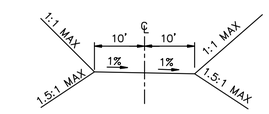


PROFILE: ACCESS ROAD TO PULLSITE P-48-2 & P-49-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 23+27.69 EC TO 28+86.89 BC
STA 29+36.86 EC TO 30+08.32 EC



TYPICAL ACCESS ROAD CROSS SECTION
STA 28+86.89 BC TO 29+36.86 EC

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P48-2 & P49-1-PS-R4.dwg\DMoy-20-2010\342

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
RCE 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

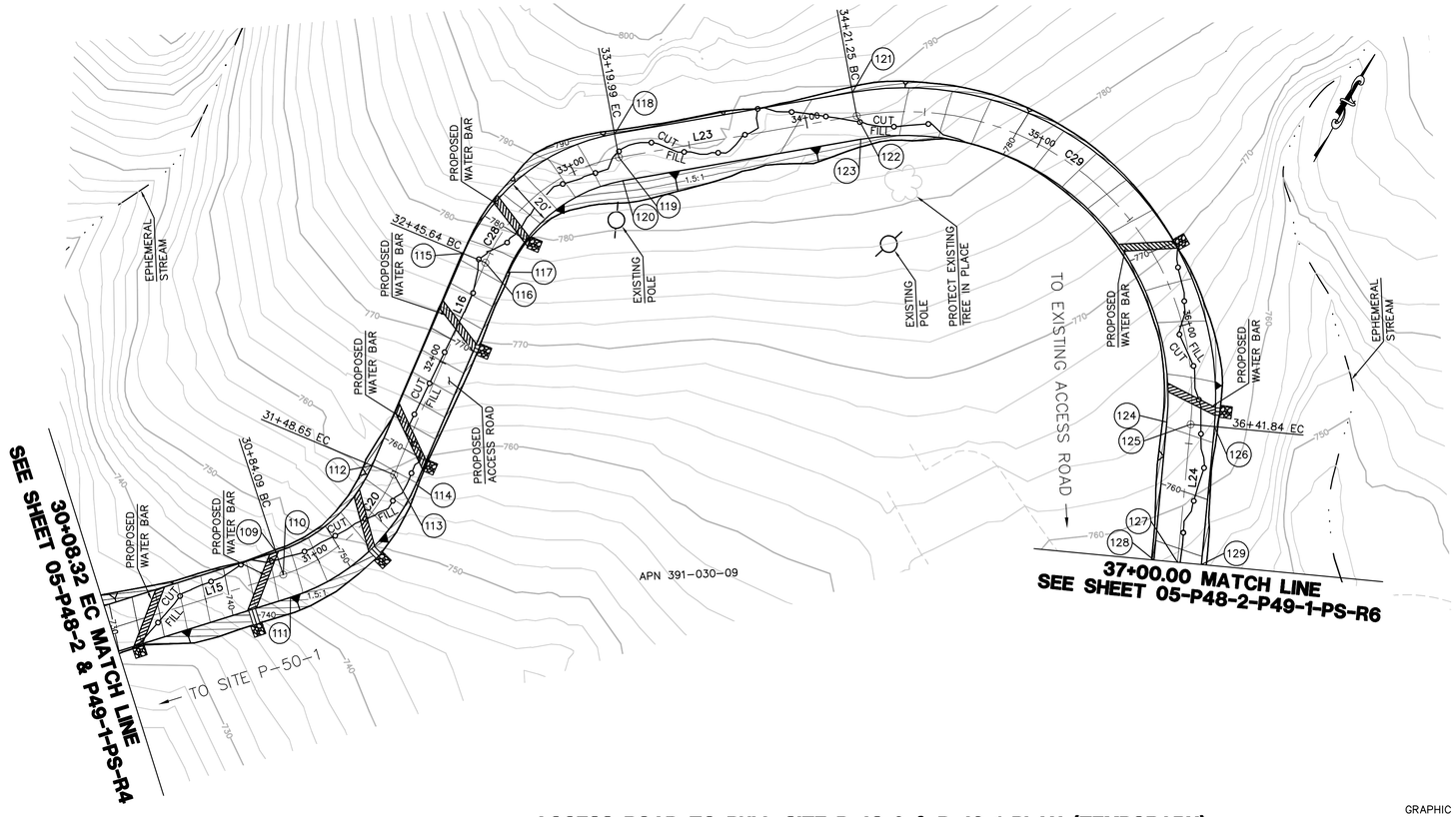
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P-48-2 & P49-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P48-2 & P49-1-PS-R4



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
109	1901840.99	6360998.42	744.62	BC
110	1901834.18	6361005.73	744.82	CL/BC
111	1901827.36	6361013.05	745.02	BC
112	1901892.49	6361015.47	757.49	EC
113	1901893.59	6361025.40	757.69	CL/EC
114	1901894.70	6361035.34	757.89	EC
115	1901988.88	6361004.75	776.58	BC
116	1901989.98	6361014.69	776.78	CL/BC
117	1901991.09	6361024.63	776.98	BC
118	1902063.81	6361035.11	789.38	EC
119	1902056.10	6361041.48	789.18	CL/EC
120	1902048.39	6361047.85	788.98	EC
121	1902128.28	6361113.20	787.54	BC
122	1902120.57	6361119.57	787.34	CL/BC
123	1902112.86	6361125.93	787.14	BC
124	1902073.16	6361296.29	762.16	EC
125	1902077.26	6361305.41	762.36	CL/EC
126	1902081.36	6361314.53	762.56	EC
127	1902024.22	6361329.26	757.52	CL
128	1902020.12	6361320.14	757.32	FG
129	1902028.32	6361338.38	757.72	FG

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C20	75.00	64.56	49°19'22"
C28	75.00	74.35	56°47'57"
C29	120.00	220.60	105°19'37"
L15		75.77	N42°58'46"E
L16		96.98	N6°20'36"W
L23		101.26	N50°27'21"E
L24		58.16	S24°13'01"E

EARTH QUANTITIES:
CUT: 324 CY
FILL: 279 CY
NET: 45 CY

DISTURBED AREA:
ROAD: 16,853 SF
TOTAL: 16,853 SF

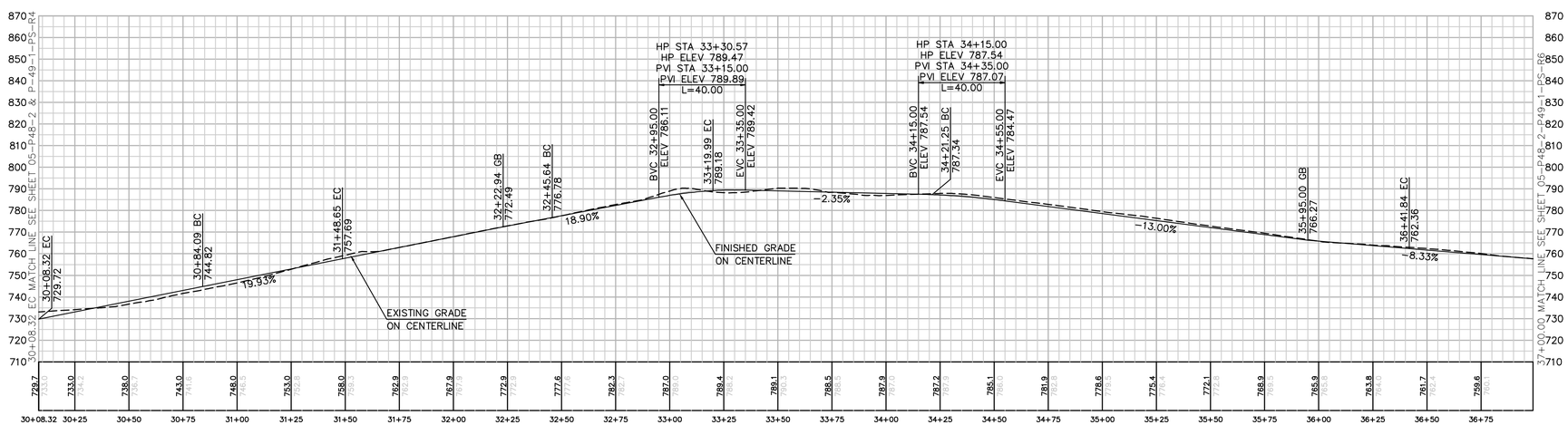
QUANTITIES:
RIP RAP: 200 SF
DOWN DRAIN: 14 LF

LENGTH OF ACCESS ROAD: 691 LF

ACCESS ROAD TO PULL SITE P-48-2 & P-49-1 PLAN (TEMPORARY)

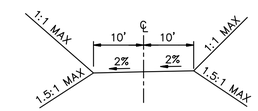
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

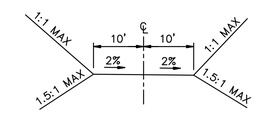


PROFILE: ACCESS ROAD TO PULLSITE P-48-2 & P-49-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 30+08.32 EC TO 32+45.64 BC



TYPICAL ACCESS ROAD CROSS SECTION
STA 32+45.64 BC TO 37+00.00

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SUTTER
NO. 29700
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

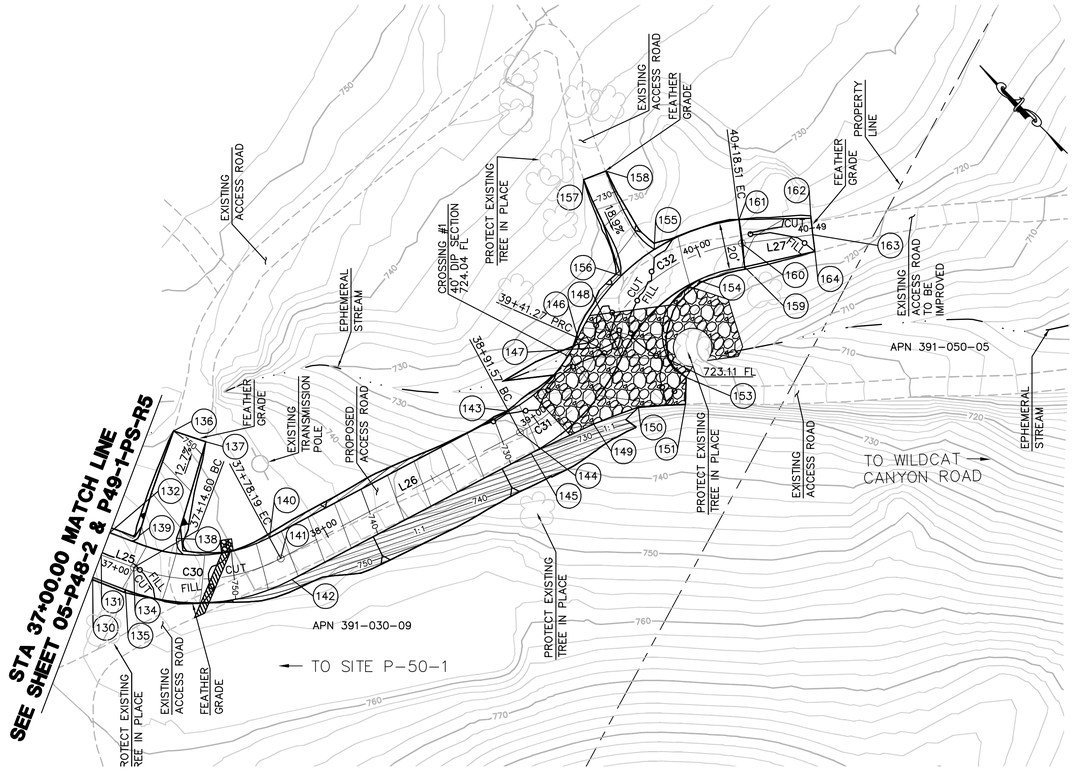
SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P-48-2 & P49-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

05-P48-2 & P49-1-PS-R5

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P48-2 & P49-1-PS-R5.dwg\LMoy-20-20101337



EARTH QUANTITIES:
CUT: 392 CY
FILL: 75 CY
NET: 317 CY
DIP SECTION EXPORT: 198 CY

DISTURBED AREA:
ROAD: 11,278 SF

QUANTITIES:
DIP SECTION: 2,920 SF
RIP RAP: 25 SF

LENGTH OF ACCESS ROAD: 350 LF

ACCESS ROADS TO PULLSITE P-48-2-P49-1 PLAN (TEMPORARY)

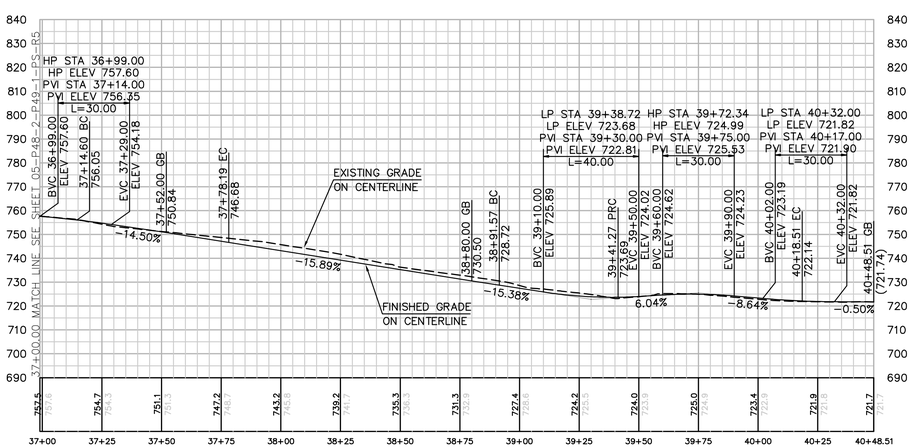
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

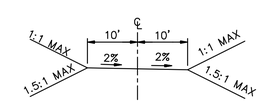
CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C30	75.00	63.59	48°34'50"
C31	75.00	49.71	37°58'21"
C32	75.00	77.24	59°00'16"
L25		14.60	S24°13'01"E
L26		113.38	S72°47'52"E
L27		30.00	S51°45'56"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
130	1902020.12	6361320.14	757.32	FG
131	1902024.22	6361329.26	757.52	CL
132	1902028.32	6361338.38	757.72	FG
134	1902010.91	6361335.25	756.05	CL/BC
135	1902006.81	6361326.13	755.85	BC
136	1902039.59	6361387.47	(750.00)	EG
137	1902026.89	6361393.86	(749.31)	EG
138	1902006.86	6361356.51	754.22	FG
139	1902018.75	6361346.26	756.37	FG
140	1901979.58	6361384.42	746.88	EC
141	1901970.03	6361381.47	746.68	CL/EC
142	1901960.48	6361378.51	746.48	EC
143	1901946.05	6361492.73	728.92	BC
144	1901936.50	6361489.77	728.72	CL/BC
145	1901926.95	6361486.82	728.52	BC
146	1901947.37	6361535.01	723.89	PRC
147	1901938.02	6361538.55	723.69	CL/PRC
148	1901928.67	6361542.10	723.49	PRC
149	1901917.11	6361514.08	726.00	FG
150	1901908.82	6361532.35	724.67	FG
151	1901895.76	6361547.15	(723.22)	EG
153	1901903.58	6361555.29	(722.94)	EG
154	1901928.82	6361587.64	723.57	FG
155	1901950.98	6361583.78	724.80	FG
156	1901953.01	6361566.09	725.18	FG
157	1901992.58	6361583.54	(732.00)	EG
158	1901988.52	6361592.68	(732.00)	EG
159	1901918.95	6361605.38	721.94	EC
160	1901926.80	6361611.56	722.14	CL/EC
161	1901934.66	6361617.75	722.34	EC
162	1901913.74	6361639.46	(721.80)	EG
163	1901908.24	6361635.13	(721.74)	EG
164	1901902.74	6361630.80	(721.49)	EG



PROFILE: ACCESS ROAD TO PULLSITE P-48-2-P49-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION

STA 37+00.00 TO 40+18.51 EC

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P48-2 & P49-1-PS-R6.dwg\Mxy-20-2010\3:49

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

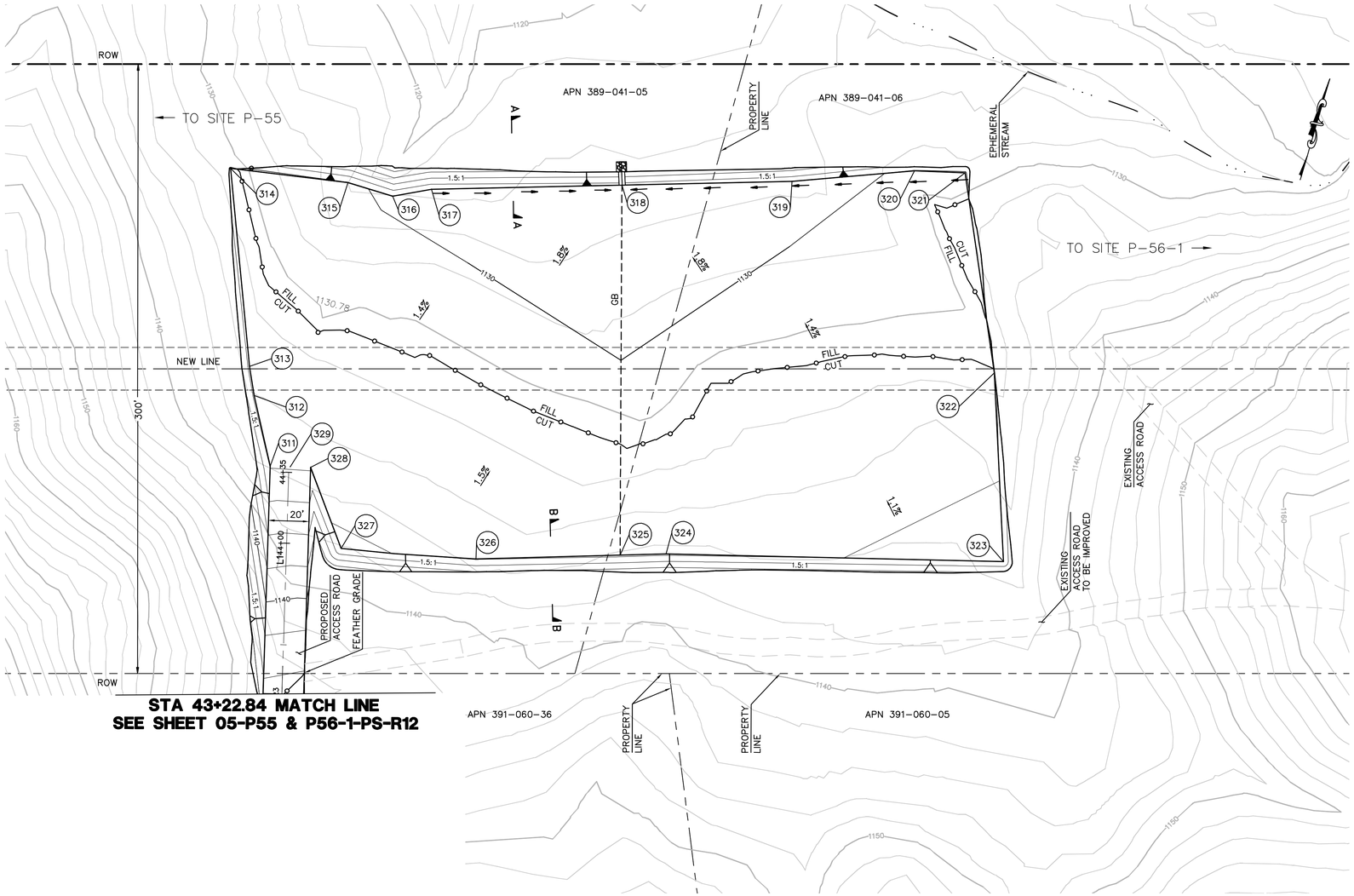
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-005 (LINK 5)

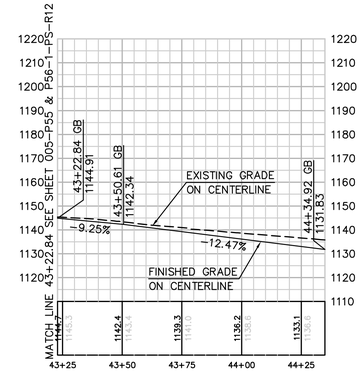
ACCESS ROAD TO PULL SITE P-48-2 & P-49-1

DRAWN BY:	DATE:	SCALE:	W.O. / REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		05-P48-2-P49-1-PS-R6
CAD NO.:	PLOT SCALE:		



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
311	1903385.47	6366314.05	1131.87	FG
312	1903416.51	6366296.66	1131.57	FG
313	1903429.61	6366290.35	1131.44	FG
314	1903520.39	6366253.57	1130.69	FG
315	1903530.15	6366310.93	1130.10	FG
316	1903530.00	6366333.97	1129.87	FG
317	1903538.77	6366351.30	1129.64	FG
318	1903567.47	6366440.53	1128.70	FG
319	1903593.11	6366520.23	1129.54	FG
320	1903615.34	6366576.52	1130.15	FG
321	1903621.48	6366600.67	1130.40	FG
322	1903531.24	6366642.56	1131.45	FG
323	1903443.46	6366673.41	1132.41	FG
324	1903399.71	6366513.21	1131.55	FG
325	1903392.66	6366491.66	1131.44	FG
326	1903370.57	6366424.22	1131.82	FG
327	1903356.58	6366359.11	1132.10	FG
328	1903390.59	6366333.39	1131.78	FG
329	1903388.03	6366323.72	1131.83	CL

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		112.08	N14° 50' 28"W



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'

EARTH QUANTITIES:
CUT: 2,877 CY
FILL: 2,618 CY
NET: 259 CY

DISTURBED AREA:
PULLSITE: 71,538 SF
ROAD: 3,240 SF
TOTAL: 74,778 SF

QUANTITIES:
RIP RAP: 25 SF
DOWN DRAIN: 7 LF

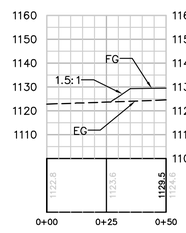
LENGTH OF ACCESS ROAD: 112 LF

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

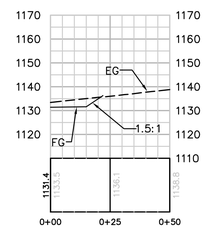
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



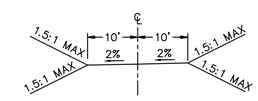
SECTION A-A

HORIZ. & VERT. SCALE: 1" = 30'



SECTION B-B

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION

STA 43+22.23 TO 44+34.31

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULL SITES\005-P55 & P56-1-PS.dwg\Mkay-20-2010\4:21

BUREAU VERITAS

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SUTTE
NO. 29706
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

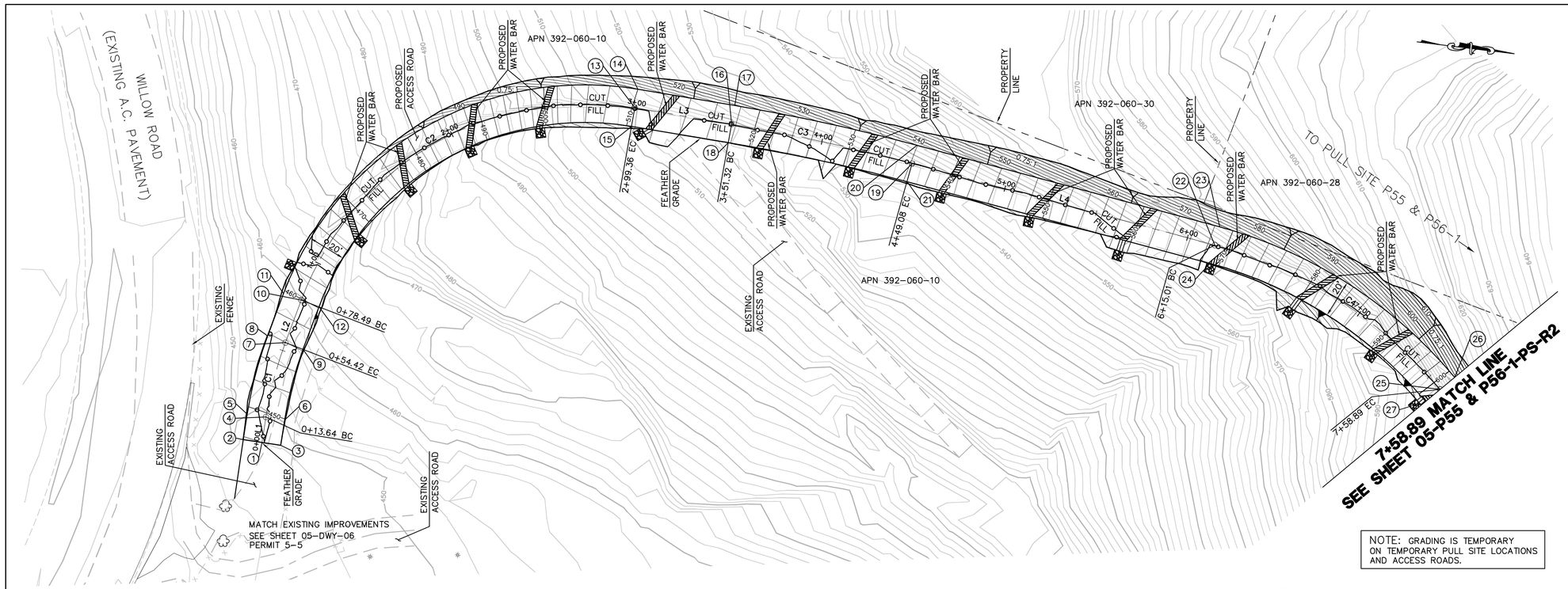
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

PULL SITE P-55 & P-56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			05-P55 & P56-1-PS
CAD NO.:	PLOT SCALE: 1 = 1			



NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	200.00	40.79	11°41'07"
C2	160.00	220.87	79°05'29"
C3	1010.00	97.76	5°32'45"
C4	235.00	143.89	35°04'51"
L1		13.64	N88°13'02"W
L2		24.07	N76°31'55"W
L3		51.96	N2°33'35"E
L4		165.93	N8°06'20"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1898010.64	6363471.56	(448.00)	CL/EG
2	1898000.65	6363471.25	(447.80)	EG
3	1898020.64	6363471.87	(448.20)	EG
4	1898011.07	6363457.93	449.72	BC/CL
5	1898001.07	6363457.62	449.52	BC
6	1898021.06	6363458.24	449.92	BC
7	1898016.47	6363417.57	455.97	CL/EC
8	1898006.75	6363415.25	455.77	EC/FG
9	1898026.20	6363419.90	456.17	EC/FG
10	1898022.08	6363394.17	459.92	CL/BC
11	1898012.35	6363391.84	459.72	BC/FG
12	1898031.80	6363396.50	460.12	BC/FG
13	1898184.82	6363271.59	510.20	CL/EC
14	1898185.27	6363261.60	510.00	EC/FG
15	1898184.38	6363281.58	510.40	EC/FG
16	1898236.73	6363273.91	517.56	CL/BC
17	1898237.18	6363263.92	517.36	BC/FG
18	1898236.28	6363283.90	517.76	BC/FG
19	1898334.03	6363282.99	536.15	CL/EC
20	1898335.44	6363273.09	535.95	EC/FG
21	1898332.62	6363292.89	536.35	EC/FG
22	1898498.30	6363306.39	568.75	CL/BC
23	1898499.71	6363296.49	568.55	BC/FG
24	1898496.89	6363316.29	568.95	BC/FG
25	1898625.99	6363367.69	601.41	CL/EC
26	1898632.84	6363360.40	601.21	EC/FG
27	1898619.15	6363374.98	601.61	EC/FG

EARTH QUANTITIES:
CUT: 1,851 CY.
FILL: 182 CY.
NET: 1,669 CY.

DISTURBED AREA:
ROAD: 21,646 SF

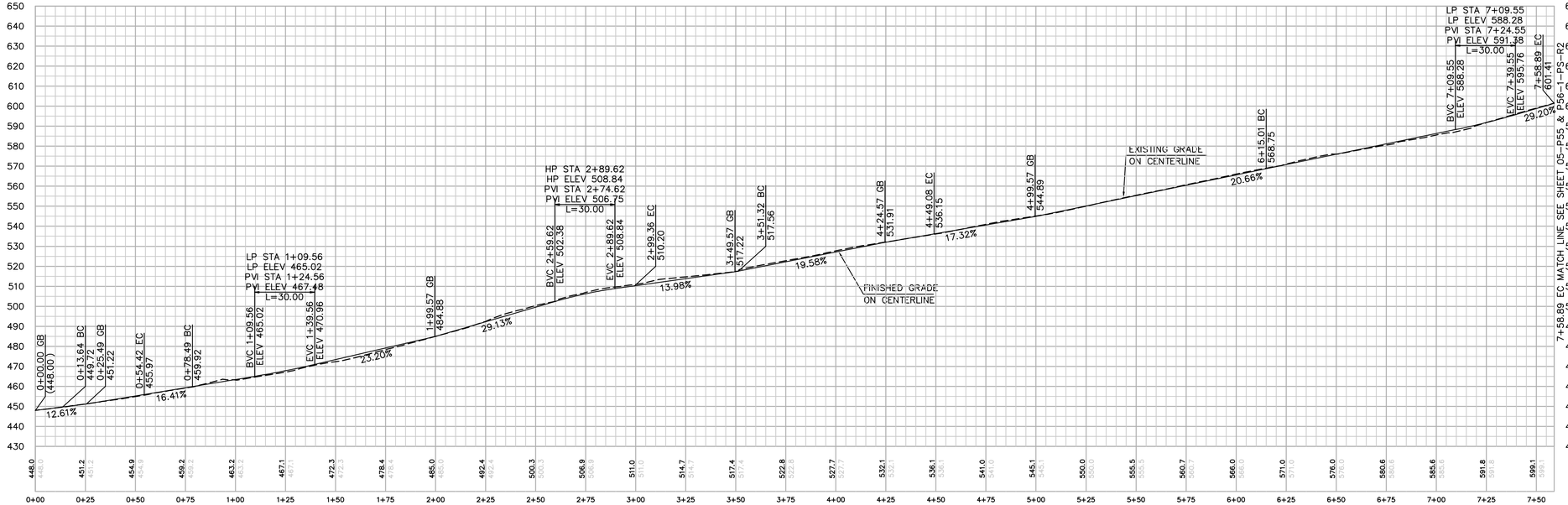
QUANTITIES:
RIP RAP: 375 SF
DOWN DRAIN: 19 LF

LENGTH OF ACCESS ROAD: 759 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

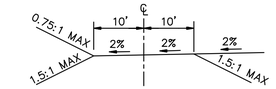
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

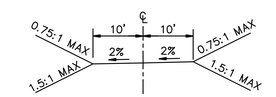


PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 2+41.95 TO 7+58.89 EC



TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 2+41.95

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R1.dwg©May-26-2010 12:12

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
REE 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

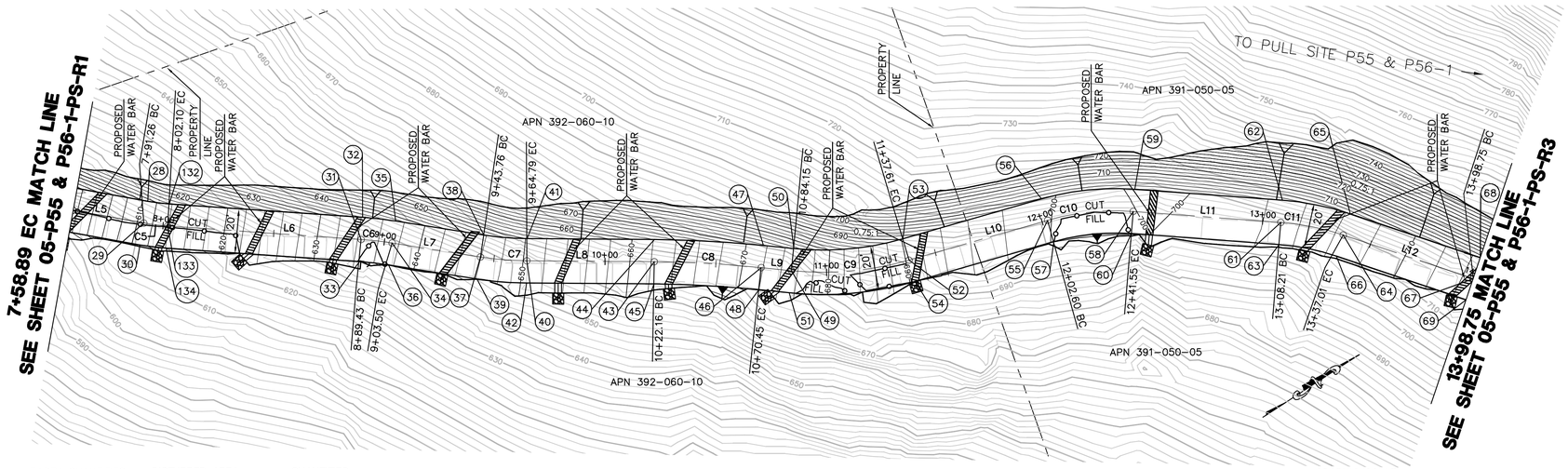
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.
CHECKED BY:	DATE:		REV. 0
APPROVED BY:	DATE:		05-P55 & P56-1-PS-R1
CAD NO.:	PLOT SCALE: 1 = 1		



EARTH QUANTITIES:
CUT: 3,927 CY.
FILL: 28 CY.
NET: 3,899 CY.

DISTURBED AREA:
ROAD: 24,561 SF

QUANTITIES:
RIP RAP: 275 SF
DOWN DRAIN: 18 LF

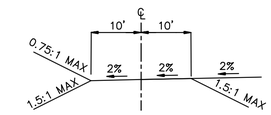
LENGTH OF ACCESS ROAD: 640 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

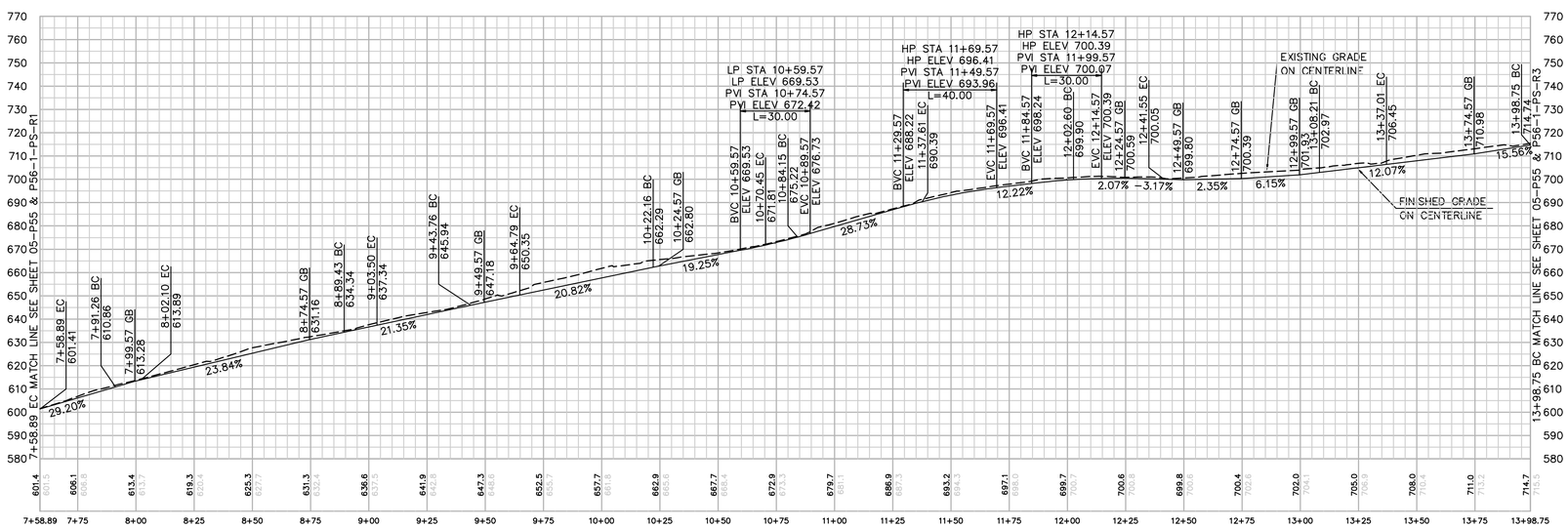
NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C5	100.00	10.84	6°12'44"
C6	160.00	14.07	5°02'20"
C7	140.00	21.03	8°36'23"
C8	510.00	48.29	5°25'31"
C9	140.00	53.45	21°52'34"
C10	110.00	38.95	20°17'10"
C11	115.00	28.80	14°20'58"
L5		32.37	N43°11'11"E
L6		87.33	N36°58'28"E
L7		40.26	N42°00'48"E
L8		57.37	N33°24'25"E
L9		13.70	N38°49'56"E
L10		64.99	N16°57'22"E
L11		66.67	N37°14'32"E
L12		61.74	N51°35'29"E



TYPICAL ACCESS ROAD CROSS SECTION
STA 7+58.89 EC TO 13+98.75 BC

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
28	1898656.44	6363382.56	610.66	BC/FG
29	1898649.59	6363389.85	610.86	EC/FG
30	1898642.75	6363397.14	611.06	BC/FG
31	1898727.65	6363449.35	634.34	CL/BC
32	1898733.67	6363441.36	634.14	BC/FG
33	1898721.64	6363457.34	634.54	BC/FG
34	1898738.51	6363458.29	637.34	CL/EC
35	1898745.20	6363450.86	637.14	EC/FG
36	1898731.82	6363465.72	637.54	EC/FG
37	1898768.42	6363485.24	645.94	CL/BC
38	1898775.11	6363477.81	645.74	BC/FG
39	1898761.73	6363492.67	646.14	BC/FG
40	1898785.04	6363498.09	650.35	CL/EC
41	1898790.55	6363489.74	650.15	EC/FG
42	1898779.53	6363506.44	650.55	EC/FG
43	1898832.93	6363529.68	662.29	CL/BC
44	1898838.44	6363521.33	662.09	BC/FG
45	1898827.43	6363538.02	662.49	BC/FG
46	1898871.93	6363558.13	671.81	CL/EC
47	1898878.20	6363550.34	671.61	EC/FG
48	1898865.66	6363565.92	672.01	EC/FG
49	1898882.60	6363566.73	675.22	CL/BC
50	1898888.87	6363558.94	675.02	BC/FG
51	1898876.33	6363574.52	675.42	BC/FG
52	1898929.56	6363591.58	690.39	CL/EC
53	1898932.47	6363582.02	690.19	EC/FG
54	1898926.64	6363601.15	690.59	EC/FG
55	1898991.72	6363610.56	699.90	CL/BC
56	1898994.64	6363600.97	699.70	BC/FG
57	1898988.81	6363620.10	700.10	BC/FG
58	1899026.21	6363628.18	700.05	CL/EC
59	1899032.27	6363620.22	699.85	EC/FG
60	1899020.16	6363636.15	700.25	EC/FG
61	1899079.29	6363668.53	702.97	CL/BC
62	1899085.34	6363660.57	702.77	BC/FG
63	1899073.24	6363676.49	703.17	BC/FG
64	1899099.81	6363688.64	706.45	CL/EC
65	1899107.64	6363682.42	706.25	EC/FG
66	1899091.97	6363694.85	706.65	EC/FG
67	1899138.16	6363737.01	714.74	CL/BC
68	1899146.00	6363730.80	714.54	BC/FG
69	1899130.32	6363743.22	714.94	BC/FG
132	1898663.90	6363388.84	613.69	EC
133	1898657.89	6363396.82	613.89	CL/EC
134	1898651.87	6363404.81	614.09	EC



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R2.dwg\Mky-26-2010\2:11

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

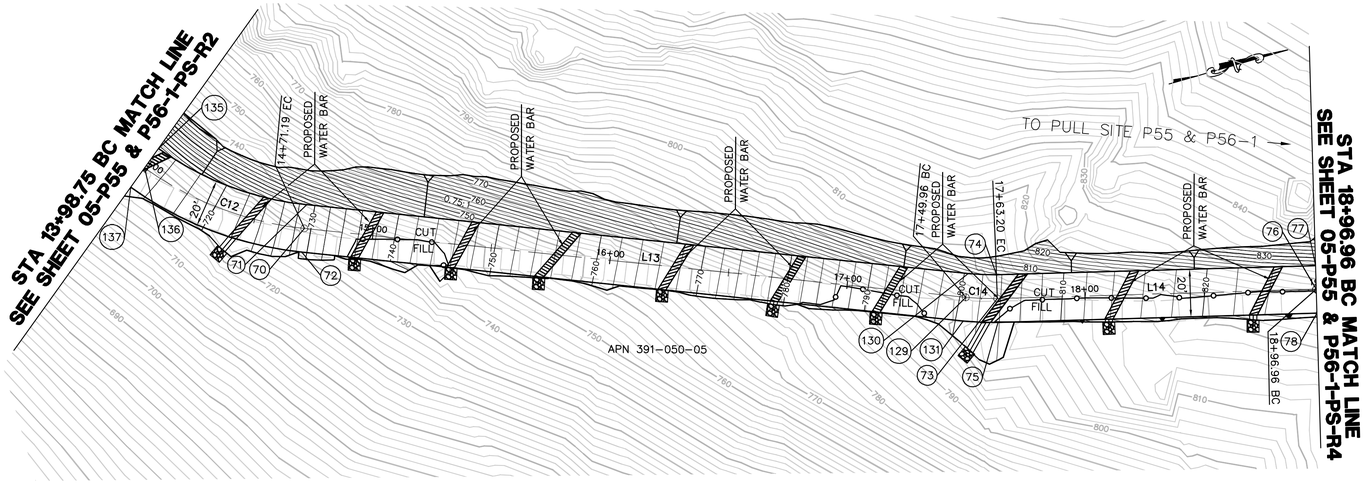
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULLSITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P55 & P56-1-PS-R2



EARTH QUANTITIES:
CUT: 2,147 CY.
FILL: 29 CY.
NET: 2,118 CY.

DISTURBED AREA:
ROAD: 17,036 SF

QUANTITIES:
RIP RAP: 250 SF
DOWN DRAIN: 23 LF

LENGTH OF ACCESS ROAD: 498 LF

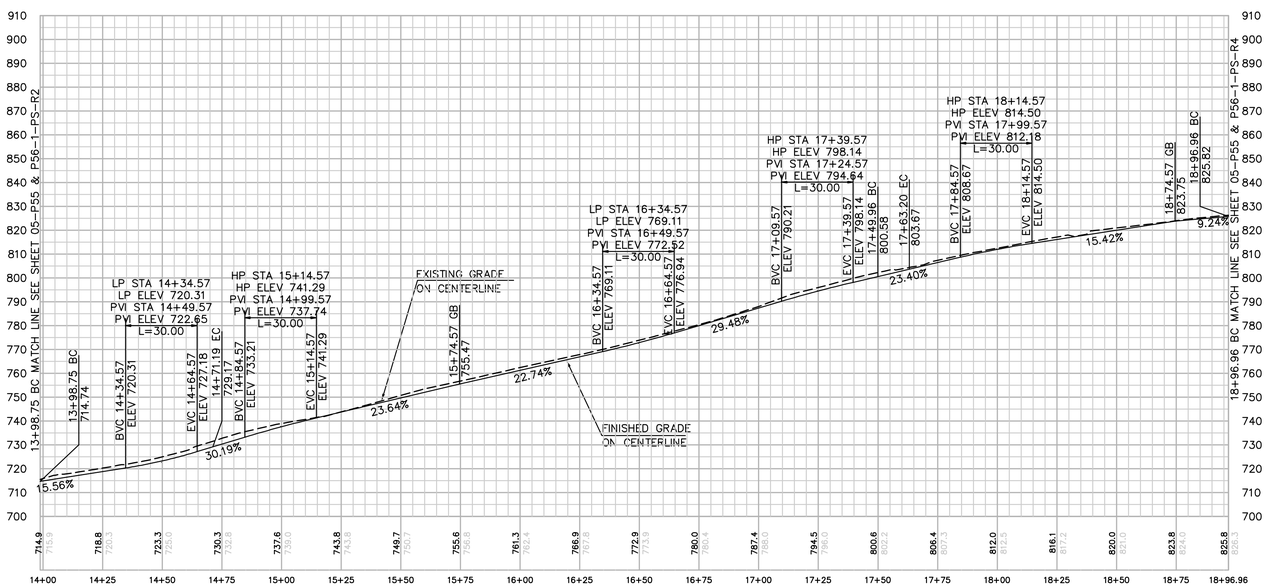
ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

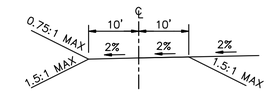
CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C12	140.00	72.43	29°38'39"
C14	100.00	13.24	7°35'00"
L13		278.78	N21°56'50"E
L14		133.76	N14°21'51"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
70	1899195.54	6363779.89	729.17	CL/EC
71	1899199.28	6363770.61	728.97	EC/FG
72	1899191.80	6363789.16	729.37	EC/FG
73	1899466.68	6363888.20	803.67	CL/EC
74	1899469.16	6363878.52	803.47	EC/FG
75	1899464.20	6363897.89	803.87	EC/FG
76	1899596.26	6363921.39	825.82	CL/BC
77	1899598.74	6363911.70	825.62	BC/FG
78	1899593.77	6363931.07	826.02	BC/FG
129	1899454.11	6363884.08	800.58	CL/FG
130	1899457.85	6363874.81	800.38	BC/FG
131	1899450.38	6363893.36	800.78	BC/FG
135	1899146.00	6363730.80	714.54	BC
136	1899138.16	6363737.01	714.74	CL/BC
137	1899130.32	6363743.22	714.94	BC



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 13+98.75 BC TO 18+96.96 BC

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R3.dwg|JMoy-26-2010|2|3

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SUTTLE RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

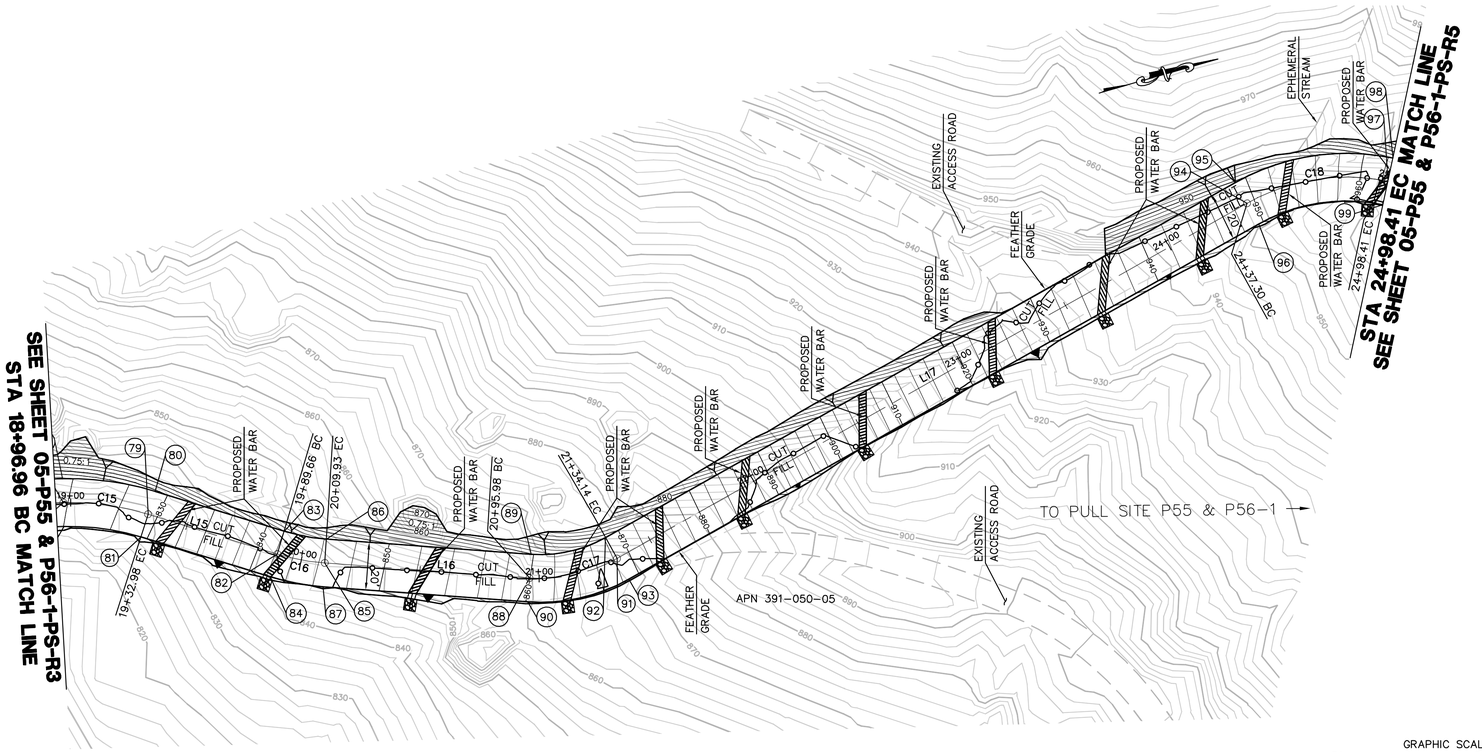
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P55 & P56-1-PS-R3



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C15	110.00	36.02	18°45'50"
C16	90.00	20.27	12°54'23"
C17	65.00	38.16	33°38'19"
C18	85.00	61.10	41°11'14"
L15		56.68	N33°07'41"E
L16		86.05	N20°13'17"E
L17		303.16	N13°25'01"W

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
79	1899629.08	6363935.83	829.45	CL/EC
80	1899634.55	6363927.45	829.25	EC/FG
81	1899623.62	6363944.20	829.65	EC/FG
82	1899676.55	6363966.80	842.22	CL/BC
83	1899682.01	6363958.43	842.02	BC/FG
84	1899671.08	6363975.18	842.42	BC/FG
85	1899694.62	6363975.88	846.36	CL/EC
86	1899698.08	6363966.50	846.16	EC/FG
87	1899691.17	6363985.27	846.56	EC/FG
88	1899775.38	6364005.63	859.96	CL/BC
89	1899778.83	6363996.24	859.76	BC/FG
90	1899771.91	6364015.01	860.16	BC/FG
91	1899812.92	6364007.86	868.41	CL/EC
92	1899810.60	6363998.13	868.21	EC/FG
93	1899815.24	6364017.59	868.61	EC/FG
94	1900107.81	6363937.52	949.27	CL/BC
95	1900105.49	6363927.79	949.07	BC/FG
96	1900110.13	6363947.24	949.47	BC/FG
97	1900167.14	6363944.99	962.56	CL/EC
98	1900171.82	6363936.15	962.36	EC/FG
99	1900162.45	6363953.82	962.76	EC/FG

EARTH QUANTITIES:
CUT: 987 CY.
FILL: 120 CY.
NET: 867 CY.

DISTURBED AREA:
ROAD: 16,203 SF

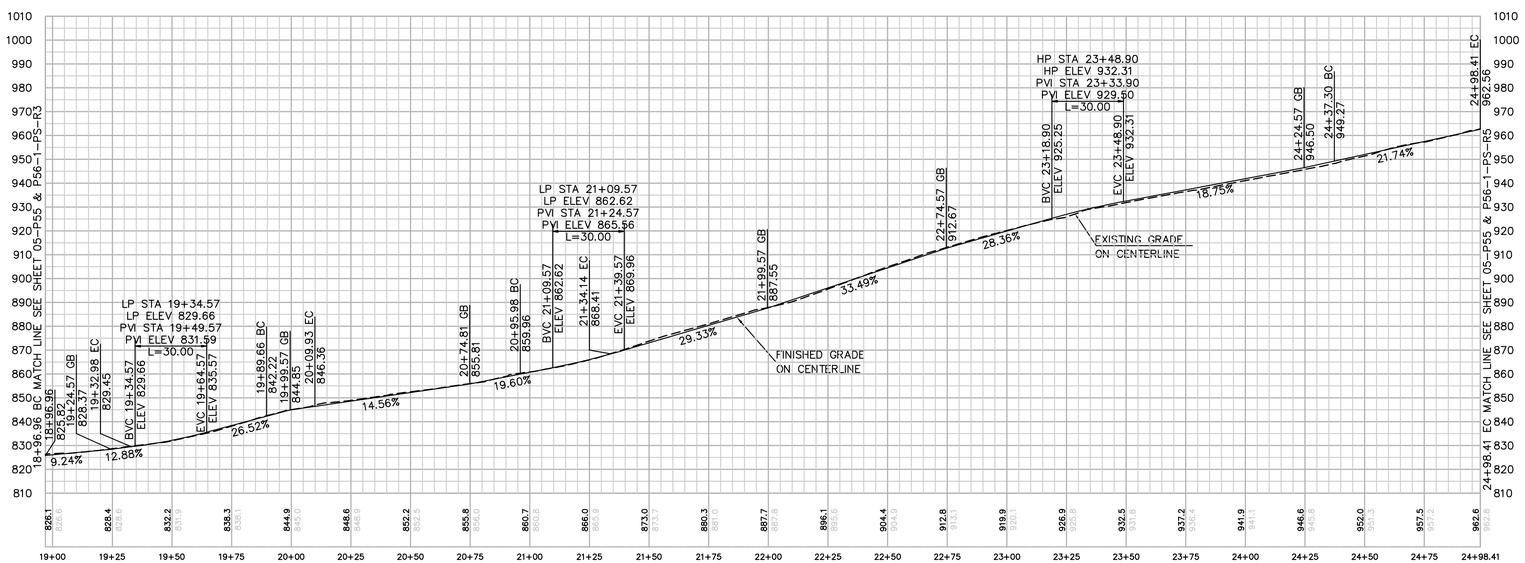
QUANTITIES:
RIP RAP: 300 SF
DOWN DRAIN: 6 LF

LENGTH OF ACCESS ROAD: 601 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

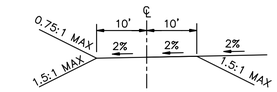
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

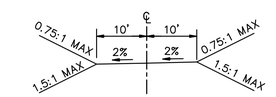


PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 18+96.96 BC TO 21+14.19



TYPICAL ACCESS ROAD CROSS SECTION
STA 21+14.19 TO 24+98.41 EC

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R4.dwg\JMoy-20-20101414

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29706
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

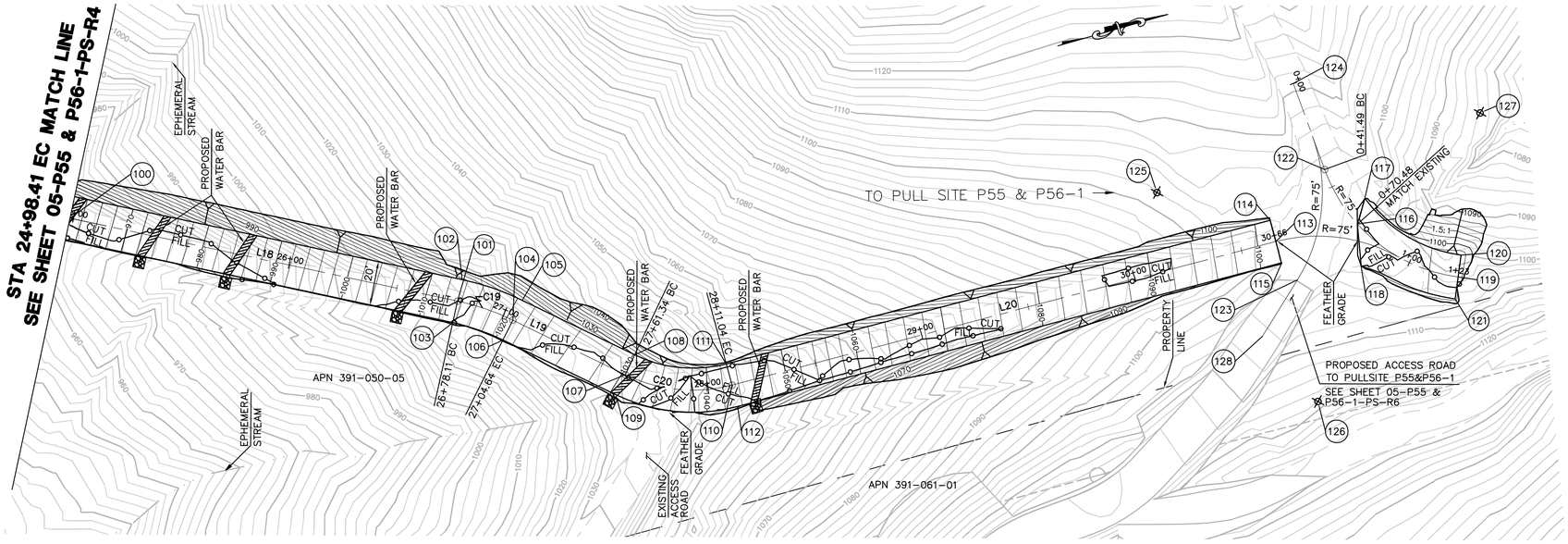
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

05-P55 & P56-1-PS-R4



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C19	110.00	26.54	13°49'23"
C20	70.00	49.70	40°40'36"
L18		179.70	N28°04'00"E
L19		56.70	N41°53'23"E
L20		254.99	N1°12'47"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
100	1900167.14	6363944.99	962.56	CL/EC
101	1900325.70	6364029.53	1013.52	CL/BC
102	1900330.41	6364020.71	1013.32	BC/FG
103	1900321.00	6364038.36	1013.72	BC/FG
104	1900347.40	6364044.71	1020.71	CL/EC
105	1900354.07	6364037.27	1020.51	EC/FG
106	1900340.72	6364052.16	1020.91	EC/FG
107	1900389.60	6364082.57	1030.35	CL/BC
108	1900396.28	6364075.12	1030.15	BC/FG
109	1900382.93	6364090.01	1030.55	BC/FG
110	1900434.86	6364100.44	1043.18	CL/EC
111	1900435.07	6364090.45	1042.98	EC/FG
112	1900434.65	6364110.44	1043.38	EC/FG
113	1900689.80	6364105.84	(1101.43)	CL/EG
114	1900690.01	6364095.84	(1101.26)	EG
115	1900689.58	6364116.04	(1101.92)	EG
116	1900727.57	6364108.41	(1101.51)	CL/EG
117	1900733.95	6364098.30	(1101.42)	EG
118	1900723.96	6364126.89	(1101.13)	EG
119	1900764.85	6364144.11	1103.20	CL/FG
120	1900768.86	6364134.95	1103.40	FG
121	1900760.85	6364153.27	1103.00	FG
122	1900720.09	6364080.59	(1103.38)	EG
123	1900694.46	6364125.26	(1102.74)	EG
124	1900717.22	6364039.20	(1110.86)	EG/TAN
125	1900644.15	6364069.64		RP
126	1900688.21	6364180.82		RP
127	1900794.91	6364075.39		RP
128	1900672.16	6364145.44	(1106.54)	EG/TAN

EARTH QUANTITIES:
CUT: 956 CY.
FILL: 88 CY.
NET: 868 CY.

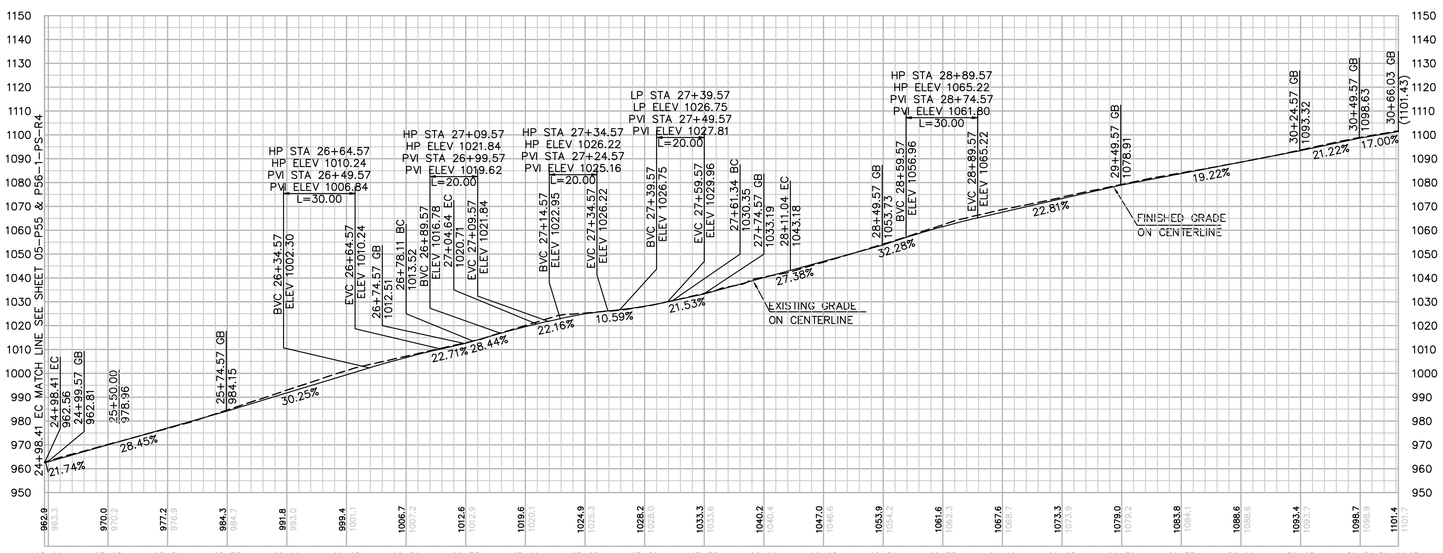
DISTURBED AREA:
ROAD: 16,098 SF
TURNAROUND: 1,708 SF
TOTAL: 17,806 SF

QUANTITIES:
RIP RAP: 125 SF
DOWN DRAIN: 2 LF
LENGTH OF ACCESS ROAD: 567 LF
LENGTH OF TURNAROUND: 53 LF

ACCESS ROAD TO PULLSITE P-55 & P-56-1 PLAN (TEMPORARY)

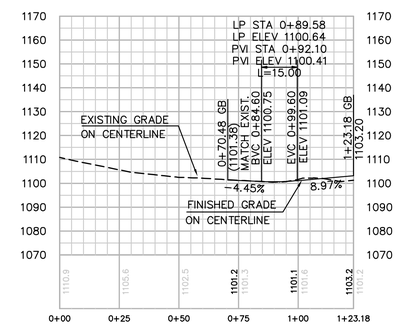
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

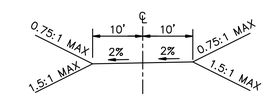
HORIZ. & VERT. SCALE: 1" = 30'



PROFILE: TURNAROUND

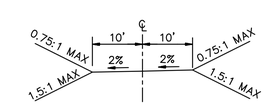
HORIZ. & VERT. SCALE: 1" = 30'

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



TYPICAL ACCESS ROAD CROSS SECTION

STA 24+98.41 EC TO 30+66.08



TYPICAL TURNAROUND CROSS SECTION

STA 0+70.48 TO 1+23.18

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R5.dwg[Mkay-20-201014]11

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH REG. 26708 Exp. 3-31-17 CIVIL STATE OF CALIFORNIA

REVISIONS

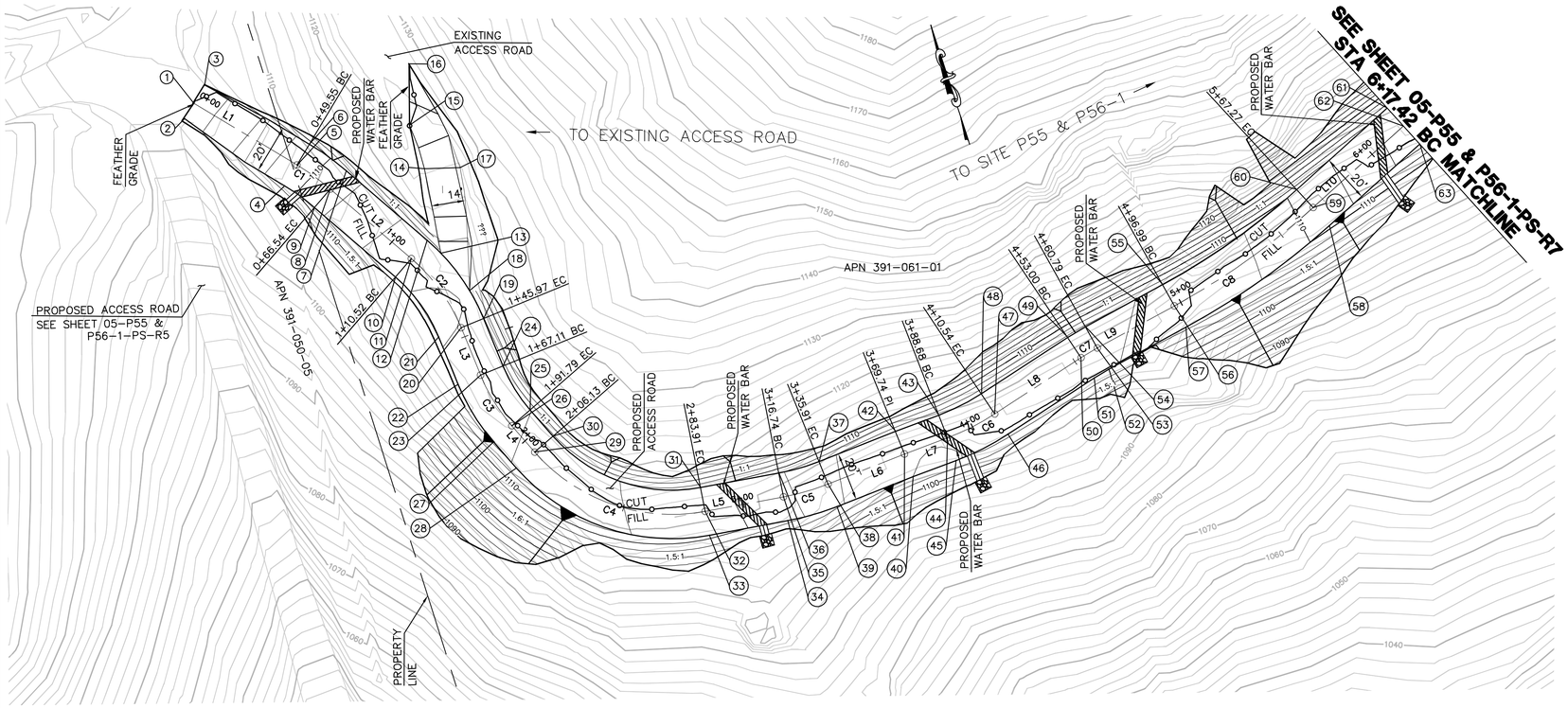
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O. / REV. 0
CHECKED BY:	DATE:		05-P55 & P56-1-PS-R5
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		



NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1900694.46	6364125.26	(1102.74)	CL
2	1900689.59	6364119.66	(1102.84)	EG
3	1900700.18	6364131.82	(1102.63)	EG
4	1900650.51	6364150.29	1109.21	BC
5	1900657.08	6364157.83	1109.01	CL/BC
6	1900663.65	6364165.37	1108.81	BC
7	1900648.61	6364176.37	1110.94	EC
8	1900643.41	6364167.83	1111.14	CL/EC
9	1900638.21	6364159.29	1111.34	EC
10	1900600.64	6364182.15	1115.49	BC
11	1900605.84	6364190.69	1115.29	CL/BC
12	1900611.04	6364199.23	1115.09	BC
13	1900604.22	6364202.97	1115.51	FG
14	1900639.39	6364207.31	1122.00	FG
15	1900658.37	6364206.98	(1125.40)	EG
16	1900682.59	6364214.51	(1126.95)	EG
17	1900635.26	6364221.42	1122.00	FG
18	1900585.89	6364209.46	1115.41	FG
19	1900573.13	6364211.39	1115.75	EC
20	1900572.39	6364201.42	1115.95	CL/EC
21	1900571.66	6364191.45	1116.15	EC
22	1900550.57	6364193.01	1115.37	BC
23	1900551.31	6364202.98	1115.17	CL/BC
24	1900552.05	6364212.95	1114.97	BC
25	1900531.36	6364217.98	1114.03	EC
26	1900527.44	6364208.79	1114.23	CL/EC
27	1900523.52	6364199.59	1114.43	EC
28	1900510.33	6364205.21	1113.88	BC
29	1900514.25	6364214.41	1113.68	CL/BC
30	1900518.17	6364223.61	1113.48	BC
31	1900479.22	6364274.93	1110.50	EC
32	1900469.30	6364273.63	1110.70	CL/EC

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
33	1900459.39	6364272.33	1110.90	EC
34	1900455.11	6364304.88	1108.64	BC
35	1900465.02	6364306.18	1108.44	CL/BC
36	1900474.94	6364307.48	1108.24	BC
37	1900474.34	6364324.70	1106.57	EC
38	1900464.36	6364325.31	1106.53	CL/EC
39	1900454.38	6364325.92	1106.43	EC
40	1900456.43	6364359.60	1104.00	PI
41	1900466.42	6364359.07	1104.20	CL/PI
42	1900476.41	6364358.54	1104.40	PI
43	1900477.26	6364377.54	1104.30	BC
44	1900467.27	6364378.00	1104.10	CL/BC
45	1900457.28	6364378.45	1103.90	BC
46	1900460.97	6364402.15	1104.78	EC
47	1900470.63	6364399.55	1104.58	CL/EC
48	1900480.28	6364396.94	1104.38	EC
49	1900491.35	6364437.94	1105.31	BC
50	1900481.70	6364440.54	1105.51	CL/BC
51	1900472.04	6364443.15	1105.71	BC
52	1900473.60	6364449.98	1105.88	EC
53	1900483.43	6364448.14	1105.68	CL/EC
54	1900493.26	6364446.29	1105.48	EC
55	1900499.95	6364481.87	1106.28	BC
56	1900490.12	6364483.71	1106.48	CL/BC
57	1900480.29	6364485.56	1106.68	BC
58	1900501.90	6364554.72	1110.87	EC
59	1900511.03	6364550.64	1110.67	CL/EC
60	1900520.16	6364546.56	1110.47	EC
61	1900540.61	6364592.35	1114.73	BC
62	1900531.48	6364596.43	1114.93	CL/BC
63	1900522.35	6364600.50	1115.13	BC

EARTH QUANTITIES:
CUT: 1057 CY.
FILL: 752 CY.
NET: 305 CY.

DISTURBED AREA:
ROAD: 26,848 SF

QUANTITIES:
RIP RAP: 125 SF
DOWN DRAIN: 33 LF

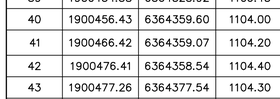
LENGTH OF ACCESS ROAD: 617 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

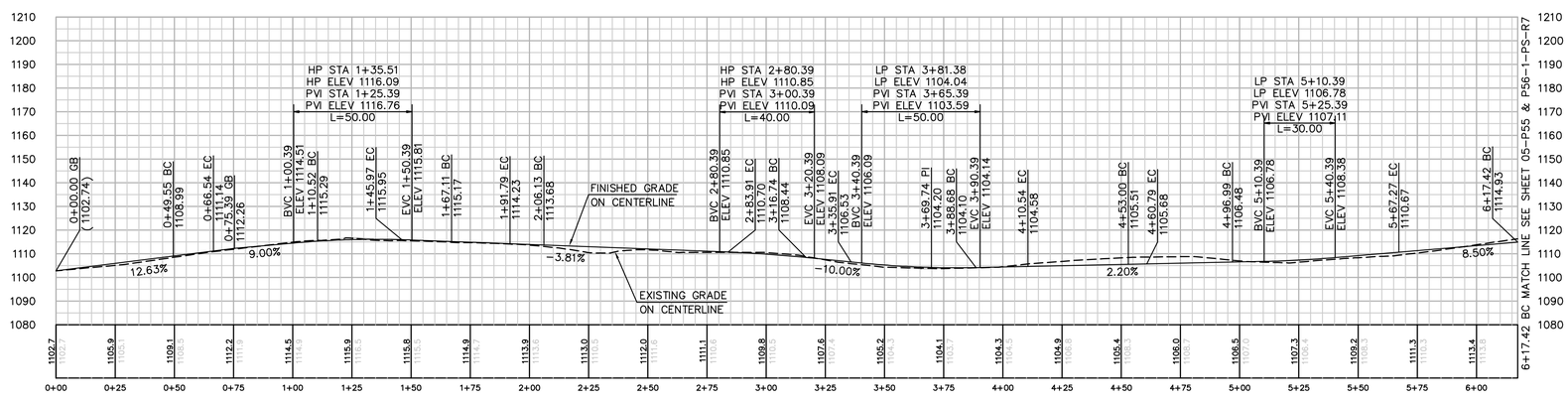
GRAPHIC SCALE
30 0 30 60
1"=30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C1	100.00	16.99	9°44'10"
C2	75.00	35.46	27°05'10"
C3	75.00	24.68	18°51'06"
C4	75.00	77.78	59°25'17"
C5	100.00	19.17	10°59'02"
C6	100.00	21.85	12°31'13"
C7	100.00	7.79	4°27'55"
C8	300.00	70.28	13°25'23"
L1		49.55	S41°03'41"E
L2		43.98	S31°19'31"E
L3		21.14	S4°14'21"E
L4		14.34	S23°05'27"E
L5		32.83	S82°30'44"E
L6		33.82	N86°30'14"E
L7		18.95	N87°24'46"E
L8		42.46	N74°53'33"E
L9		36.20	N79°21'28"E
L10		50.14	N65°56'06"E



TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00.00 TO 6+17.42 BC

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULL SITES\005-P55 & P56-1-PS-R6.dwg|JMoy-20-20101419

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp.3-31-17 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

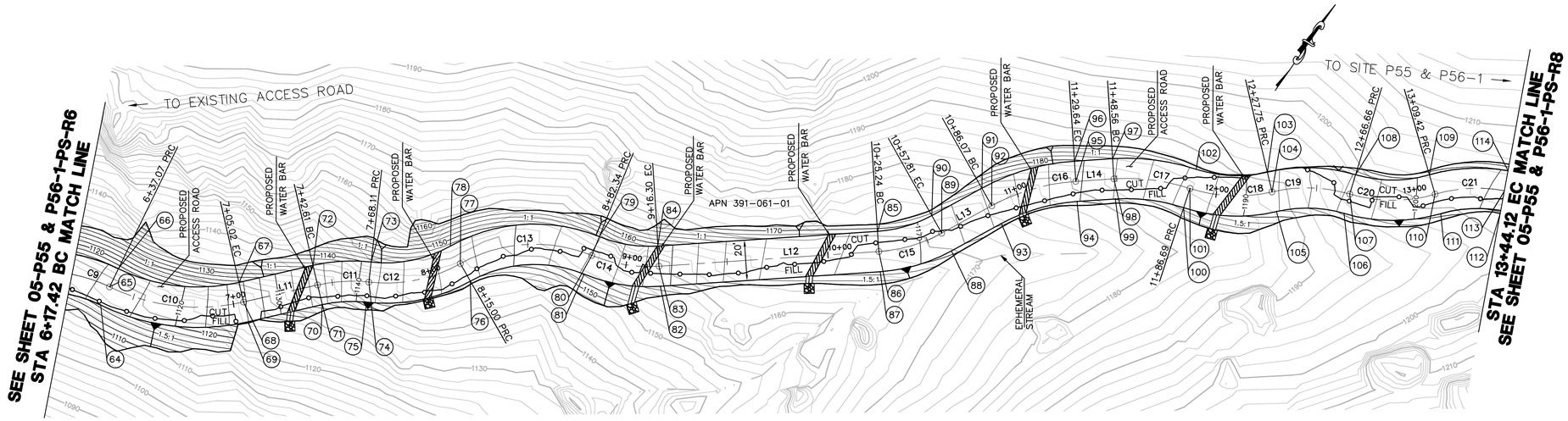
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

REV. 0

05-P55 & P56-1-PS-R6



EARTH QUANTITIES:
CUT: 1116 CY.
FILL: 331 CY.
NET: 785 CY.

DISTURBED AREA:
ROAD: 23,246 SF

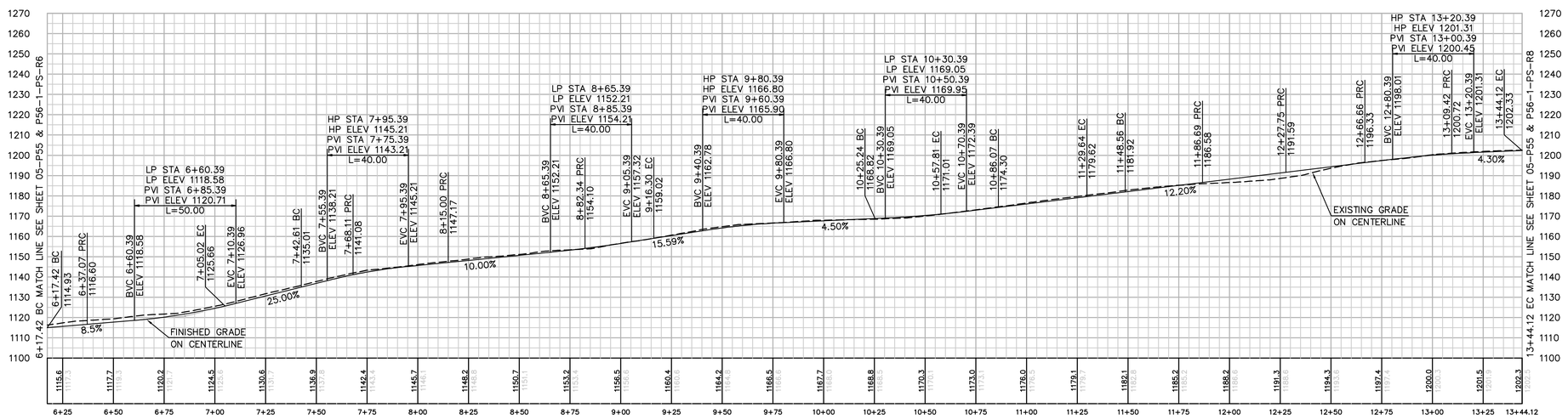
QUANTITIES:
RIP RAP: 150 SF
DOWN DRAIN: 27 LF

LENGTH OF ACCESS ROAD: 727 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

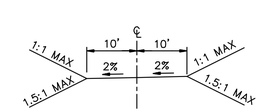
HORIZ. & VERT. SCALE: 1" = 30'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
64	1900527.19	6364616.78	1116.80	PRC
65	1900537.06	6364615.21	1116.60	CL/PRC
66	1900546.94	6364613.64	1116.40	PRC
67	1900575.58	6364666.34	1125.46	EC
68	1900568.89	6364673.77	1125.66	CL/EC
69	1900562.19	6364681.20	1125.86	EC
70	1900590.12	6364706.36	1135.21	BC
71	1900596.81	6364698.93	1135.01	CL/BC
72	1900603.51	6364691.50	1134.81	BC
73	1900621.31	6364714.10	1140.88	PRC
74	1900612.53	6364718.87	1141.08	CL/PRC
75	1900603.74	6364723.64	1141.28	PRC
76	1900641.60	6364759.69	1147.37	PRC
77	1900645.94	6364750.67	1147.17	CL/PRC
78	1900650.27	6364741.66	1146.97	PRC
79	1900696.30	6364799.33	1153.90	PRC
80	1900686.55	6364801.55	1154.10	CL/PRC
81	1900676.80	6364803.78	1154.30	PRC
82	1900693.44	6364838.12	1159.22	EC
83	1900701.23	6364831.85	1159.02	CL/EC
84	1900709.02	6364825.58	1158.82	EC
85	1900777.33	6364910.44	1168.62	BC
86	1900769.54	6364916.71	1168.82	CL/BC
87	1900761.75	6364922.98	1169.02	BC
88	1900790.32	6364945.90	1171.21	EC
89	1900794.75	6364936.93	1171.01	CL/EC
90	1900799.18	6364927.97	1170.81	EC
91	1900824.51	6364940.48	1174.10	BC
92	1900820.09	6364949.45	1174.30	CL/BC
93	1900815.66	6364958.41	1174.50	BC
94	1900845.99	6364982.78	1179.82	EC
95	1900853.79	6364976.52	1179.62	CL/EC
96	1900861.59	6364970.26	1179.42	EC
97	1900873.43	6364985.01	1181.72	BC
98	1900865.63	6364991.27	1181.92	CL/BC
99	1900857.83	6364997.53	1182.12	BC
100	1900873.75	6365027.70	1186.78	PRC
101	1900883.32	6365024.79	1186.58	CL/PRC
102	1900892.88	6365021.88	1186.38	PRC
103	1900911.81	6365051.49	1191.39	PRC
104	1900905.15	6365058.96	1191.59	CL/PRC
105	1900898.50	6365066.42	1191.79	PRC
106	1900916.86	6365094.26	1196.53	PRC
107	1900926.34	6365091.08	1196.33	CL/PRC
108	1900935.82	6365087.90	1196.13	PRC
109	1900956.72	6365117.90	1200.52	PRC
110	1900950.45	6365125.69	1200.72	CL/PRC
111	1900944.19	6365133.49	1200.92	PRC
112	1900962.51	6365156.99	1202.53	EC
113	1900971.60	6365152.81	1202.33	CL/EC
114	1900980.68	6365148.63	1202.13	EC

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C9	75.00	19.65	15°00'47"
C10	100.00	67.95	38°55'59"
C11	75.00	25.51	19°29'04"
C12	75.00	46.89	35°49'08"
C13	75.00	67.34	51°26'42"
C14	75.00	33.95	25°56'27"
C15	75.00	32.57	24°52'56"
C16	100.00	43.57	24°57'52"
C17	100.00	38.13	21°50'50"

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C18	75.00	41.06	31°22'02"
C19	75.00	38.92	29°43'52"
C20	75.00	42.76	32°39'54"
C21	75.00	34.70	26°30'20"
L11		37.59	N42°00'54"E
L12		108.94	N51°10'15"E
L13		28.26	N26°17'20"E
L14		18.91	N51°15'12"E

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



TYPICAL ACCESS ROAD CROSS SECTION
STA 6+17.42 BC TO 13+44.12 EC

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R7.dwg[]May-20-2010:4:49

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29706
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

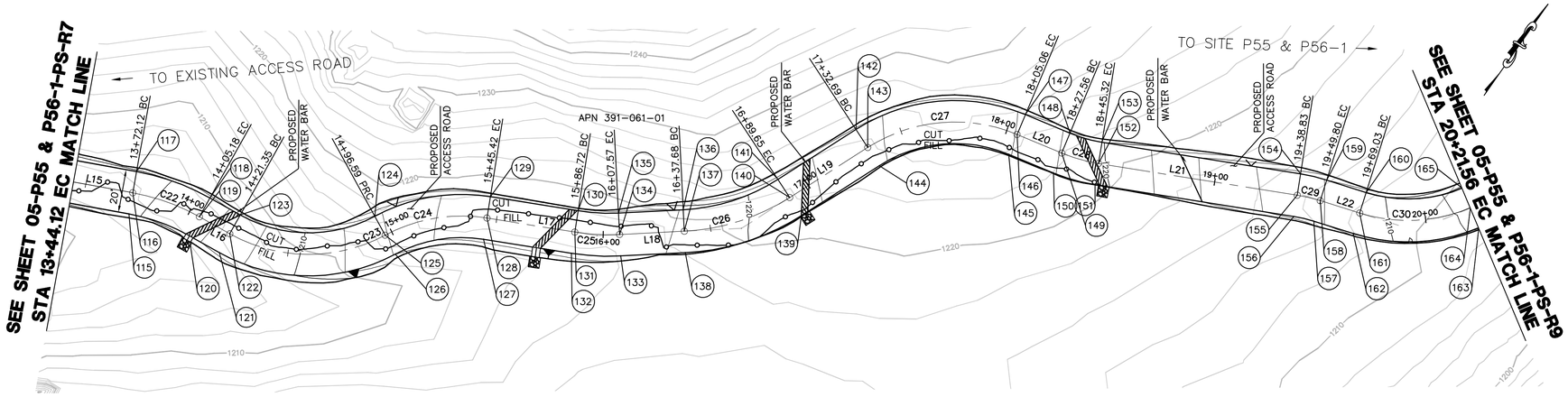
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:		PLOT SCALE: 1 = 1	

REV. 0

05-P55 & P56-1-PS-R7



EARTH QUANTITIES:
CUT: 451 CY.
FILL: 120 CY.
NET: 331 CY.

DISTURBED AREA:
ROAD: 16,239 SF

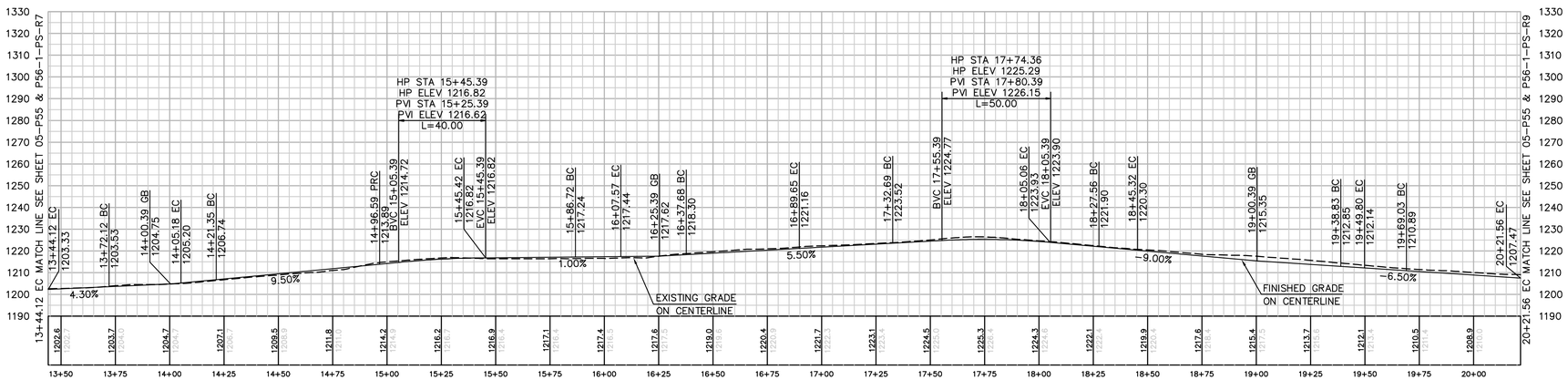
QUANTITIES:
RIP RAP: 100 SF
DOWNDRAIN: 6 LF

LENGTH OF ACCESS ROAD: 677 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

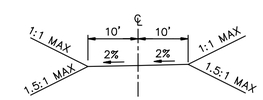
HORIZ. & VERT. SCALE: 1" = 30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C22	100.00	33.07	18°56'48"
C23	75.00	75.24	57°28'31"
C24	75.00	48.83	37°18'09"
C25	100.00	20.85	11°56'55"
C26	100.00	51.97	29°46'38"
C27	75.00	72.37	55°17'09"
C28	75.00	17.76	13°34'03"
C29	75.00	10.97	8°22'54"
C30	75.00	52.54	40°08'14"

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L15		28.00	N65°18'19"E
L16		16.17	N84°15'07"E
L17		41.30	N64°04'44"E
L18		30.10	N52°07'50"E
L19		43.05	N22°21'11"E
L20		22.49	N77°38'20"E
L21		93.51	N64°04'17"E
L22		19.23	N72°27'11"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
115	1900974.21	6365182.42	1203.73	BC
116	1900983.30	6365178.25	1203.53	CL/BC
117	1900992.38	6365174.07	1203.33	BC
118	1901001.89	6365209.01	1205.00	EC
119	1900991.94	6365210.01	1205.20	CL/EC
120	1900981.99	6365211.01	1205.40	EC
121	1900983.61	6365227.10	1206.94	BC
122	1900993.56	6365226.10	1206.74	CL/BC
123	1901003.51	6365225.10	1206.54	BC
124	1901038.90	6365276.62	1213.69	PRC
125	1901034.39	6365285.54	1213.89	CL/PRC
126	1901029.89	6365294.47	1214.09	PRC
127	1901059.06	6365324.09	1217.02	EC
128	1901068.06	6365319.72	1216.82	CL/EC
129	1901077.05	6365315.34	1216.62	EC
130	1901095.11	6365352.49	1217.04	BC
131	1901086.11	6365356.86	1217.24	CL/BC
132	1901077.12	6365361.24	1217.44	BC
133	1901089.22	6365380.68	1217.64	EC
134	1901097.11	6365374.54	1217.44	CL/EC
135	1901105.01	6365368.40	1217.24	EC
136	1901123.48	6365392.16	1218.10	BC
137	1901115.59	6365398.30	1218.30	CL/BC
138	1901107.70	6365404.44	1218.50	BC
139	1901152.70	6365438.65	1221.36	EC
140	1901156.50	6365429.40	1221.16	CL/EC
141	1901160.30	6365420.15	1220.96	EC
142	1901200.11	6365436.52	1223.32	BC
143	1901196.31	6365445.77	1223.52	CL/BC
144	1901192.51	6365455.02	1223.72	BC
145	1901231.28	6365501.22	1224.13	EC
146	1901241.05	6365499.08	1223.93	CL/EC
147	1901250.82	6365496.94	1223.73	EC
148	1901255.63	6365518.91	1221.70	BC
149	1901245.86	6365521.05	1221.90	CL/BC
150	1901236.10	6365523.19	1222.10	BC
151	1901242.68	6365542.16	1220.50	BC
152	1901251.68	6365537.79	1220.30	CL/EC
153	1901260.67	6365533.42	1220.10	EC
154	1901301.56	6365617.51	1212.65	BC
155	1901292.56	6365621.89	1212.85	CL/BC
156	1901283.57	6365626.26	1213.05	BC
157	1901287.09	6365635.08	1212.34	EC
158	1901296.62	6365632.07	1212.14	CL/EC
159	1901306.16	6365629.06	1211.94	EC
160	1901311.95	6365647.39	1210.69	BC
161	1901302.42	6365650.40	1210.89	CL/BC
162	1901292.88	6365653.42	1211.09	BC
163	1901328.49	6365699.63	1207.67	EC
164	1901333.84	6365691.17	1207.47	CL/EC
165	1901339.18	6365682.72	1207.27	EC

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



TYPICAL ACCESS ROAD CROSS SECTION
STA 13+44.12 EC TO 20+21.56 EC

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R8.dwg\JMay-20-20101450

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

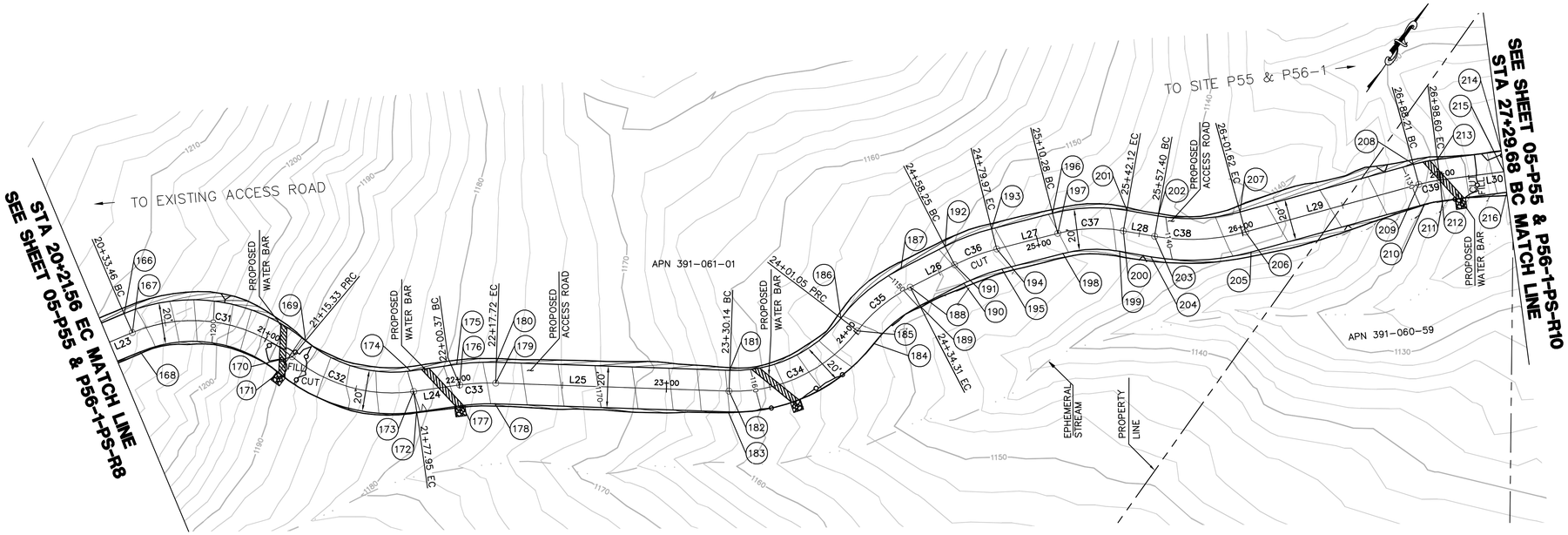
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

REV. 0

05-P55 & P56-1-PS-R8



EARTH QUANTITIES:
CUT: 934 CY.
FILL: 4 CY.
NET: 930 CY.

DISTURBED AREA:
ROAD: 16,535 SF

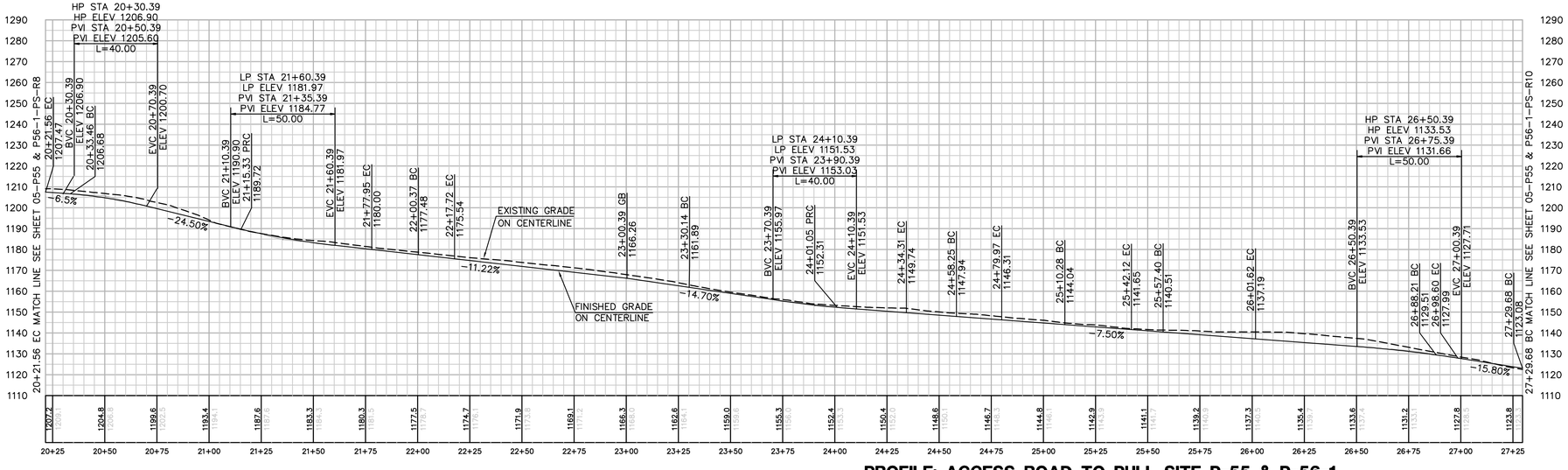
QUANTITIES:
RIP RAP: 100 SF

LENGTH OF ACCESS ROAD: 708 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

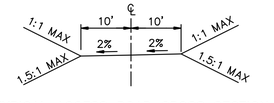
HORIZ. & VERT. SCALE: 1" = 30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C31	75.00	81.87	62°32'33"
C32	75.00	62.62	47°50'07"
C33	100.00	17.35	9°56'28"
C34	75.00	70.91	54°10'21"
C35	75.00	33.26	25°24'34"
C36	100.00	21.72	12°26'45"

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C37	75.00	31.83	24°19'06"
C38	100.00	44.22	25°20'06"
C39	75.00	10.39	7°56'10"
L23		11.90	N32°18'57"E
L24		22.42	N47°01'23"E
L25		112.42	N56°57'50"E

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L26		23.94	N28°12'03"E
L27		30.31	N40°38'48"E
L28		15.28	N64°57'54"E
L29		86.59	N39°37'48"E
L30		31.08	N47°33'58"E

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



TYPICAL ACCESS ROAD CROSS SECTION
STA 20+21.56 EC TO 27+29.68 BC

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
166	1901349.24	6365689.08	1206.48	BC
167	1901343.89	6365697.54	1206.68	CL/BC
168	1901338.55	6365705.99	1206.88	BC
169	1901388.49	6365768.12	1189.52	PRC
170	1901378.53	6365767.27	1189.72	CL/PRC
171	1901368.56	6365766.42	1189.92	PRC
172	1901391.07	6365831.57	1180.20	EC
173	1901398.39	6365824.75	1180.00	CL/EC
174	1901405.70	6365817.93	1179.80	EC
175	1901420.99	6365834.34	1177.28	BC
176	1901413.67	6365841.15	1177.48	CL/BC
177	1901406.35	6365847.97	1177.68	BC
178	1901415.96	6365860.26	1175.74	EC
179	1901424.34	6365854.81	1175.54	CL/EC
180	1901432.72	6365849.35	1175.34	EC
181	1901494.01	6365943.60	1161.69	BC
182	1901485.63	6365949.05	1161.89	CL/BC
183	1901477.24	6365954.50	1162.09	BC
184	1901544.36	6365993.06	1152.51	PRC
185	1901544.85	6365983.07	1152.31	CL/PRC
186	1901545.34	6365973.09	1152.11	PRC
187	1901581.36	6365983.08	1149.54	EC
188	1901576.64	6365991.89	1149.74	CL/EC
189	1901571.91	6366000.70	1149.94	EC
190	1901593.01	6366012.02	1148.14	BC
191	1901597.74	6366003.20	1147.94	CL/BC
192	1901602.46	6365994.39	1147.74	BC
193	1901622.13	6366007.87	1146.11	EC
194	1901615.62	6366015.46	1146.31	CL/EC
195	1901609.11	6366023.05	1146.51	EC
196	1901645.13	6366027.62	1143.84	BC
197	1901638.62	6366035.20	1144.04	CL/BC
198	1901632.11	6366042.79	1144.24	BC
199	1901648.66	6366064.60	1141.85	EC
200	1901657.72	6366060.37	1141.65	CL/EC
201	1901666.78	6366056.14	1141.45	EC
202	1901673.25	6366069.99	1140.31	BC
203	1901664.19	6366074.22	1140.51	CL/BC
204	1901655.13	6366078.45	1140.71	BC
205	1901684.63	6366116.62	1137.39	EC
206	1901691.01	6366108.92	1137.19	CL/EC
207	1901697.39	6366101.22	1136.99	EC
208	1901764.08	6366156.45	1129.31	BC
209	1901757.70	6366164.15	1129.51	CL/BC
210	1901751.32	6366171.85	1129.71	BC
211	1901757.84	6366178.05	1128.19	EC
212	1901765.22	6366171.31	1127.99	CL/EC
213	1901772.60	6366164.56	1127.79	EC
214	1901793.57	6366187.50	1122.88	BC
215	1901786.19	6366194.25	1123.08	CL/BC
216	1901778.81	6366200.99	1123.28	BC

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

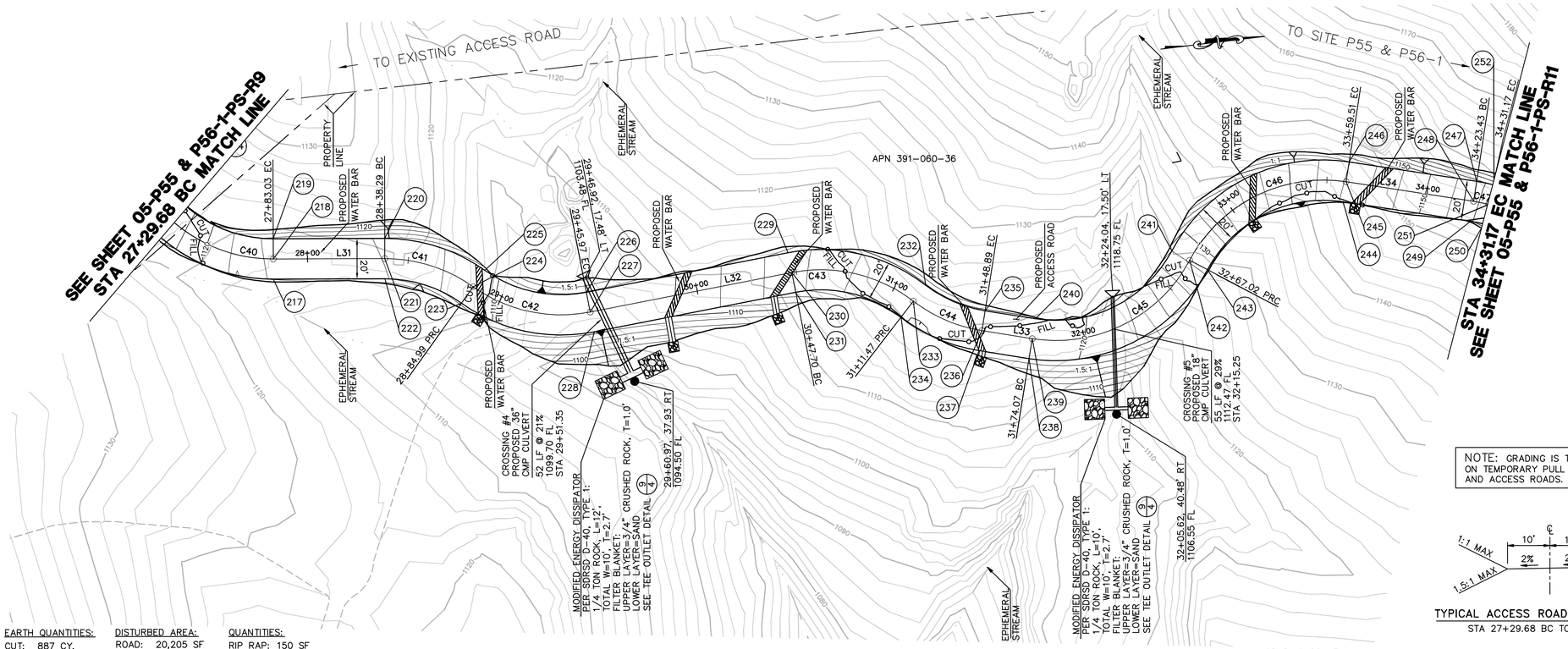
SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P55 & P56-1

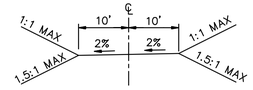
DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			05-P55 & P56-1-PS-R9
CAD NO.:	PLOT SCALE: 1 = 1			

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R9.dwg[]May-20-2010\14:52



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C40	75.00	53.35	40°45'28"
C41	75.00	46.70	35°40'41"
C42	75.00	60.98	46°35'12"
C43	75.00	63.77	48°42'50"
C44	75.00	37.42	28°35'20"
C45	75.00	92.95	71°00'38"
C46	75.00	92.49	70°39'20"
C47	75.00	7.75	5°55'05"
L31		55.26	N6°48'31"E
L32		101.73	N4°06'01"W
L33		25.18	N16°01'29"E
L34		63.91	N15°40'11"E

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



TYPICAL ACCESS ROAD CROSS SECTION
STA 27+29.68 BC TO 34+31.17 EC

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
217	1901831.47	6366228.04	1115.80	EC
218	1901832.65	6366218.11	1115.60	CL/EC
219	1901833.84	6366208.18	1115.40	EC
220	1901888.70	6366214.73	1113.72	BC
221	1901887.52	6366224.66	1113.92	CL/BC
222	1901886.33	6366234.59	1114.12	BC
223	1901922.53	6366251.20	1111.05	PRC
224	1901929.28	6366243.83	1110.85	CL/PRC
225	1901936.04	6366236.45	1110.65	PRC
226	1901984.58	6366253.35	1108.15	EC
227	1901985.30	6366263.33	1108.35	CL/EC
228	1901986.02	6366273.30	1108.55	EC
229	1902086.06	6366246.08	1115.07	BC
230	1902086.77	6366256.05	1115.27	CL/BC
231	1902087.49	6366266.03	1115.47	BC
232	1902151.83	6366270.35	1119.56	PRC
233	1902144.81	6366277.47	1119.76	CL/PRC
234	1902137.79	6366284.59	1119.96	PRC
235	1902179.54	6366286.56	1119.38	EC
236	1902176.78	6366296.17	1119.58	CL/EC
237	1902174.02	6366305.78	1119.78	EC
238	1902198.22	6366312.73	1119.54	BC
239	1902200.98	6366303.12	1119.34	CL/BC
240	1902203.74	6366293.51	1119.14	BC
241	1902274.92	6366268.33	1128.01	PRC
242	1902283.11	6366274.07	1128.21	CL/PRC
243	1902291.30	6366279.80	1128.41	PRC
244	1902362.09	6366254.51	1144.34	BC
245	1902364.79	6366244.89	1144.14	CL/EC
246	1902367.49	6366235.26	1143.94	EC
247	1902429.03	6366252.52	1153.40	BC
248	1902426.33	6366262.15	1153.60	CL/BC
249	1902423.63	6366271.78	1153.80	BC
250	1902429.99	6366273.92	1154.95	EC
251	1902433.67	6366264.62	1154.75	CL/EC
252	1902437.35	6366255.32	1154.55	EC

EARTH QUANTITIES:
CUT: 887 CY.
FILL: 1,037 CY.
NET: 150 CY.

DISTURBED AREA:
ROAD: 20,205 SF

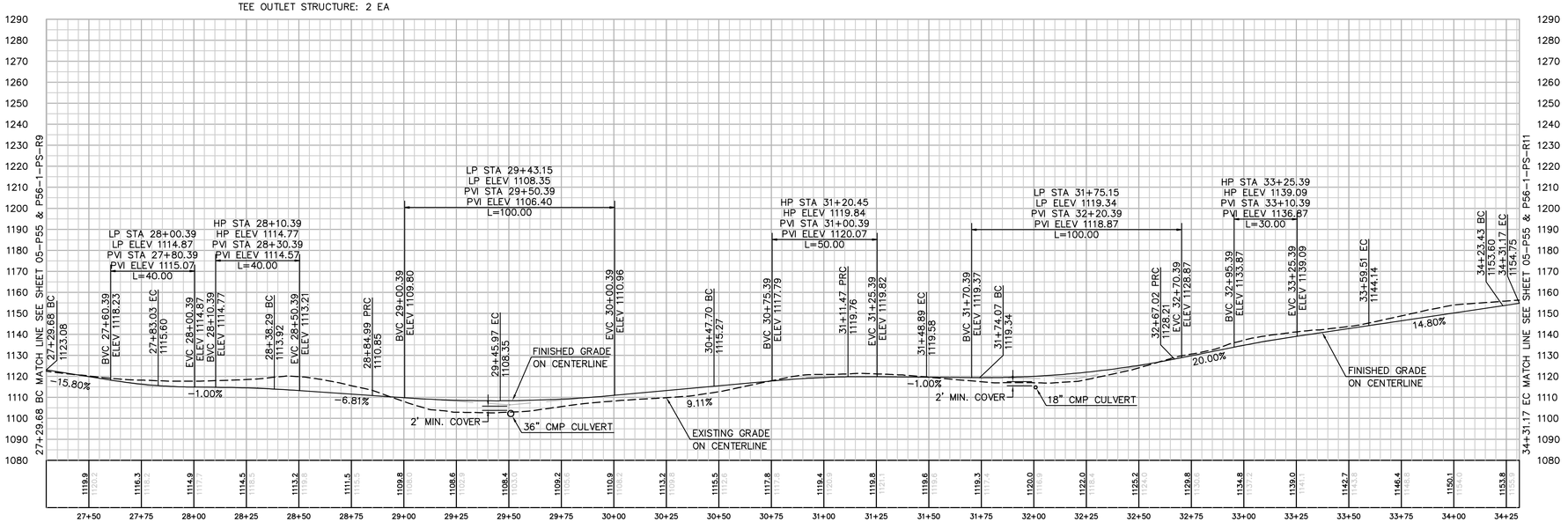
QUANTITIES:
RIP RAP: 150 SF
DOWN DRAIN: 26 LF
36" CMP CULVERT: 52 LF
18" CMP CULVERT: 55 LF
FLARED END SECTIONS: 2 EA
ENERGY DISSIPATER: 440 SF
TEE OUTLET STRUCTURE: 2 EA

LENGTH OF ACCESS ROAD: 701 LF

ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R10.dwg[Mayr-20-20101447

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
REG. 26708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

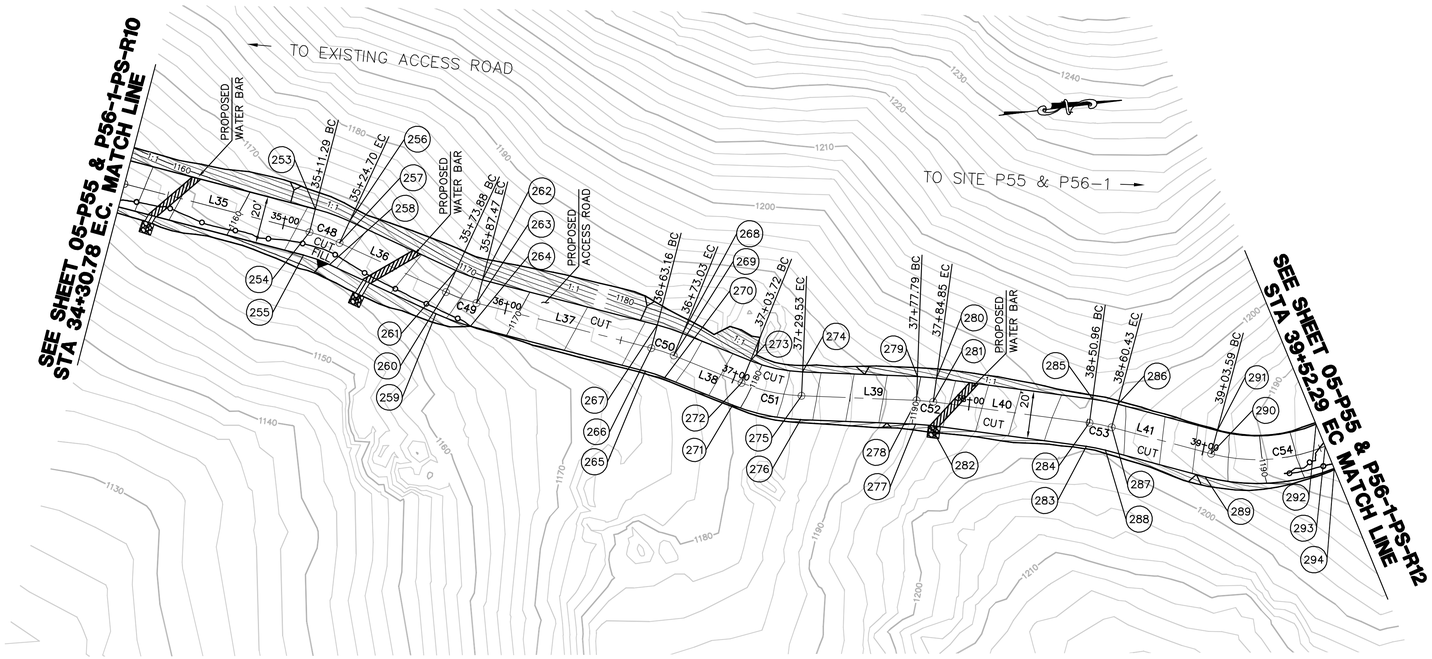
REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		05-P55 & P56-1-PS-R10	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			



EARTH QUANTITIES:
CUT: 1,007 CY.
FILL: 30 CY.
NET: 977 CY.

DISTURBED AREA:
ROAD: 14,391 SF

QUANTITIES:
RIP RAP: 75 SF
DOWN DRAIN: 10 LF

LENGTH OF ACCESS ROAD: 521 LF

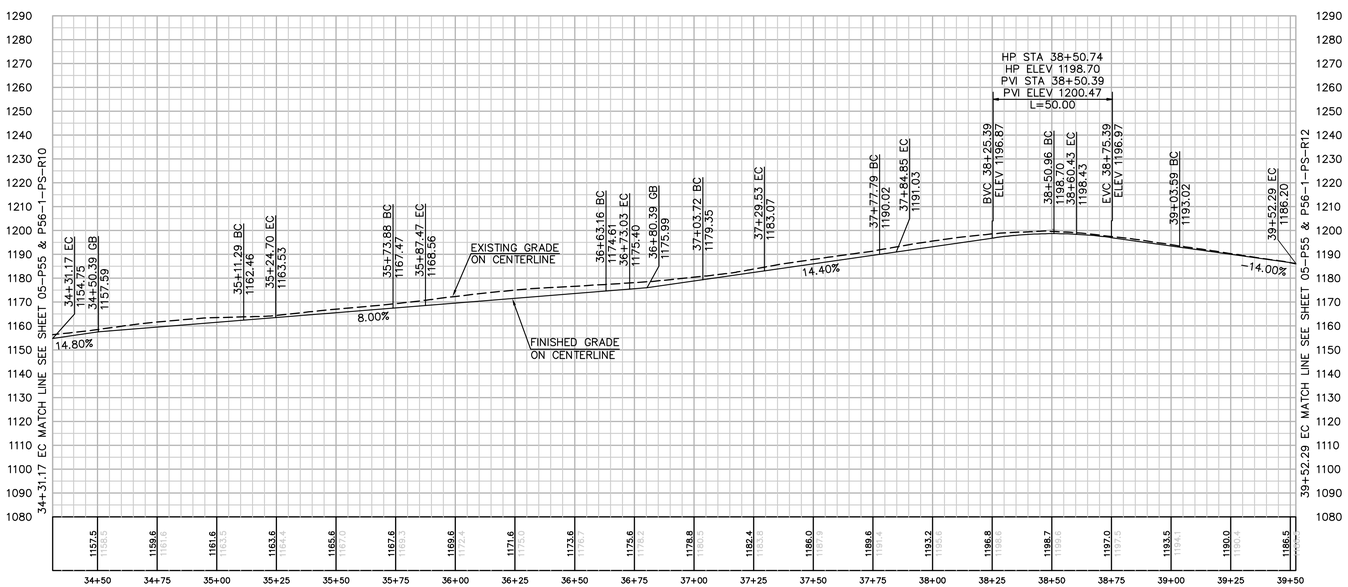
ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C48	75.00	13.41	10°14'46"
C49	75.00	13.59	10°22'45"
C50	75.00	9.87	7°32'22"
C51	75.00	25.82	19°43'27"
C52	75.00	7.07	5°23'54"
C53	75.00	9.47	7°14'13"
C54	75.00	48.70	37°12'18"
L35		80.11	N21°35'16"E
L36		49.18	N31°50'02"E
L37		75.69	N21°27'18"E
L38		30.68	N28°59'40"E
L39		48.25	N9°16'13"E
L40		66.10	N14°40'07"E
L41		43.16	N21°54'19"E

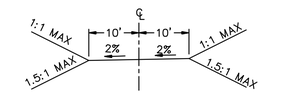
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
253	1902511.84	6366284.80	1162.26	BC
254	1902508.16	6366294.10	1162.46	CL/BC
255	1902504.48	6366303.40	1162.66	BC
256	1902525.40	6366291.62	1163.33	EC
257	1902520.13	6366300.12	1163.53	CL/EC
258	1902514.85	6366308.61	1163.73	EC
259	1902556.64	6366334.56	1167.67	BC
260	1902561.91	6366326.06	1167.47	CL/BC
261	1902567.19	6366317.57	1167.27	BC
262	1902577.70	6366322.84	1168.36	EC
263	1902574.04	6366332.15	1168.56	CL/EC
264	1902570.38	6366341.45	1168.76	EC
265	1902640.83	6366369.14	1174.81	BC
266	1902644.49	6366359.83	1174.61	CL/BC
267	1902648.15	6366350.53	1174.41	BC
268	1902658.26	6366355.29	1175.20	EC
269	1902653.41	6366364.04	1175.40	CL/EC
270	1902648.56	6366372.78	1175.60	EC
271	1902675.40	6366387.65	1179.55	BC
272	1902680.25	6366378.91	1179.35	CL/BC
273	1902685.10	6366370.16	1179.15	BC
274	1902706.13	6366377.46	1182.87	EC
275	1902704.52	6366387.33	1183.07	CL/EC
276	1902702.91	6366397.20	1183.27	EC
277	1902750.53	6366404.97	1190.22	BC
278	1902752.14	6366395.10	1190.02	CL/BC
279	1902753.76	6366385.23	1189.82	BC
280	1902761.59	6366386.89	1190.83	EC
281	1902759.05	6366396.57	1191.03	CL/EC
282	1902756.52	6366406.24	1191.23	EC
283	1902820.47	6366422.98	1198.90	BC
284	1902823.00	6366413.31	1198.70	CL/BC
285	1902825.53	6366403.63	1198.50	BC
286	1902835.72	6366407.00	1198.23	EC
287	1902831.99	6366416.28	1198.43	CL/EC
288	1902828.26	6366425.55	1198.63	EC
289	1902868.31	6366441.66	1193.22	BC
290	1902872.04	6366432.38	0.00	CL/BC
291	1902875.77	6366423.10	0.00	BC
292	1902917.17	6366425.49	1186.00	EC
293	1902919.81	6366435.14	1186.20	CL/EC
294	1902922.45	6366444.78	1186.40	EC



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.



TYPICAL ACCESS ROAD CROSS SECTION
STA 34+31.37 EC TO 39+52.90 EC

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
RCE 26708
Exp. 3-31-17
CIVIL
STATE OF CALIFORNIA

REVISIONS

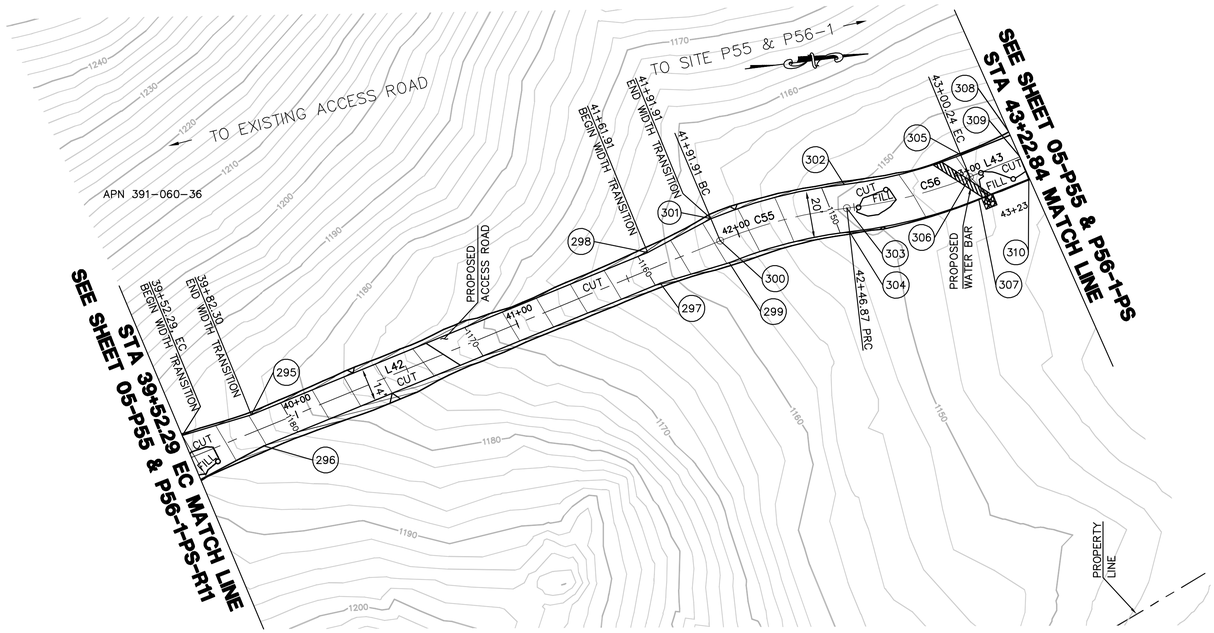
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		05-P55 & P56-1-PS-R11	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P55 & P56-1-PS-R11.dwg©Mayr-20-2010|4:42



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C55	200.00	54.96	15°44'43"
C56	200.02	53.36	15°17'09"
L42		239.62	N15°17'59"W
L43		22.60	N14°50'28"W

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
295	1902946.90	6366420.47	1181.86	FG
296	1902950.60	6366433.97	1182.14	FG
297	1903123.84	6366386.58	1159.71	FG
298	1903120.15	6366373.07	1159.43	FG
299	1903153.57	6366381.55	1155.86	BC
300	1903150.93	6366371.91	1155.66	CL/BC
301	1903148.29	6366362.26	1155.46	BC
302	1903205.34	6366354.83	1149.30	PRC
303	1903205.26	6366364.83	1149.50	CL/PRC
304	1903205.19	6366374.83	1149.70	PRC
305	1903255.49	6366348.49	1145.81	EC
306	1903258.05	6366358.16	1146.01	CL/EC
307	1903260.61	6366367.83	1146.21	EC
308	1903277.34	6366342.70	1144.71	FG
309	1903279.90	6366352.37	1144.94	CL
310	1903282.46	6366362.04	1145.11	FG

EARTH QUANTITIES:
CUT: 252 CY.
FILL: 1 CY.
NET: 251 CY.

DISTURBED AREA:
ROAD: 7,218 SF

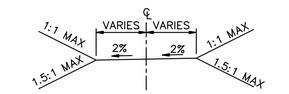
QUANTITIES:
RIP RAP: 25 SF

LENGTH OF ACCESS ROAD: 370 LF

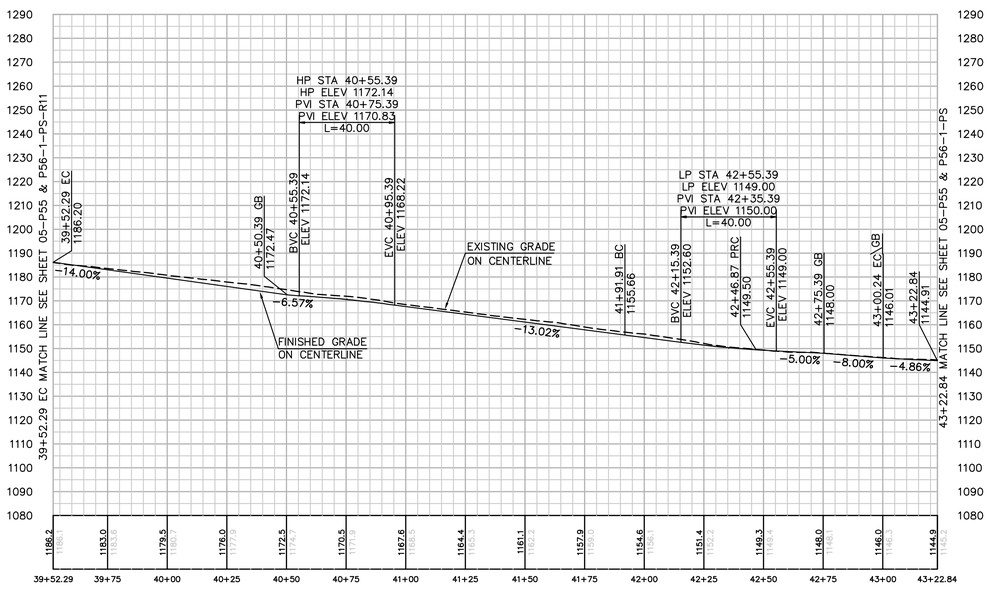
ACCESS ROAD TO PULL SITE P-55 & P-56-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 39+52.29 EC TO 43+22.84



PROFILE: ACCESS ROAD TO PULL SITE P-55 & P-56-1

HORIZ. & VERT. SCALE: 1" = 30'

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

P:\16919 SDG&E SPL\CAD\05\dwg\PLAN\PULL SITES\005-P55 & P56-1-PS-R12.dwg\Model\y-20-2010\14:39

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

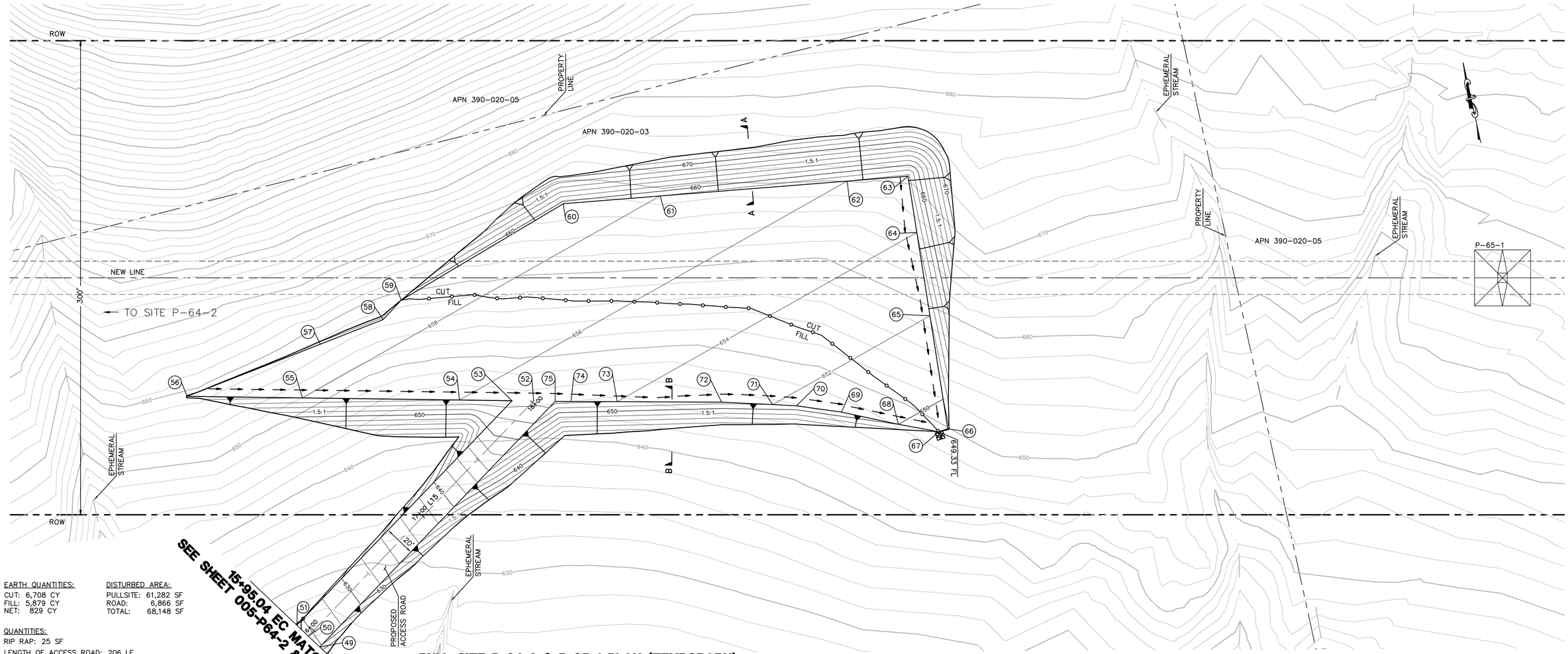
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P55 & P56-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0	05-P55 & P56-1-PS-R12
CHECKED BY:	DATE:				
APPROVED BY:	DATE:				
CAD NO.:	PLOT SCALE: 1 = 1				



EARTH QUANTITIES:
CUT: 6,708 CY
FILL: 5,879 CY
NET: 829 CY

DISTURBED AREA:
PULLSITE: 61,282 SF
ROAD: 6,866 SF
TOTAL: 68,148 SF

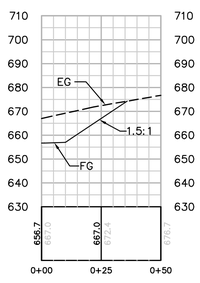
QUANTITIES:
RIP RAP: 25 SF
LENGTH OF ACCESS ROAD: 206 LF

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

PULL SITE P-64-2 & P-65-1 PLAN (TEMPORARY)

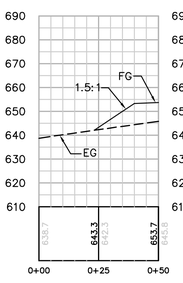
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



SECTION A-A

HORIZ. & VERT. SCALE: 1" = 30'

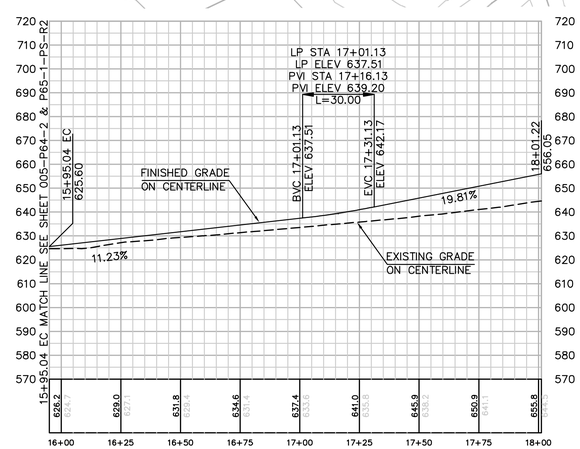


SECTION B-B

HORIZ. & VERT. SCALE: 1" = 30'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
49	1906562.68	6378582.58	625.80	EC
50	1906571.02	6378577.06	625.60	CL/EC
51	1906579.36	6378571.53	625.40	EC
52	1906684.89	6378748.94	655.06	CL
53	1906688.07	6378735.63	655.33	FG
54	1906695.81	6378703.19	656.00	FG
55	1906718.89	6378606.51	658.00	FG
56	1906735.83	6378535.54	659.47	FG
57	1906749.60	6378624.97	658.96	FG
58	1906756.11	6378667.25	658.72	FG
59	1906765.50	6378681.06	658.92	FG
60	1906802.61	6378794.58	659.04	FG
61	1906793.94	6378855.45	658.00	FG
62	1906777.18	6378973.09	656.00	FG

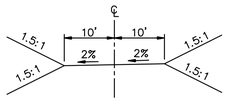
NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
63	1906771.74	6379011.26	655.35	FG
64	1906735.77	6379008.95	654.00	FG
65	1906682.51	6379005.53	652.00	FG
66	1906610.27	6379000.89	649.45	FG
67	1906609.71	6378994.94	649.33	FG
68	1906619.87	6378970.97	650.00	FG
69	1906635.28	6378937.48	650.98	FG
70	1906645.50	6378910.47	651.68	FG
71	1906649.50	6378896.04	652.00	FG
72	1906658.13	6378864.89	652.69	FG
73	1906672.89	6378800.38	654.00	FG
74	1906679.41	6378771.89	654.58	FG
75	1906681.64	6378762.14	654.78	FG



PROFILE: ACCESS ROAD TO PULL SITE P-64-2 & P-65-1

HORIZ. & VERT. SCALE: 1" = 30'

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L15		206.18	N56°28'37"E



TYPICAL ACCESS ROAD CROSS SECTION

STA 15+95.04 EC TO 18+01.22

P:\16919 SDG&E SPL\CAD\05\dwg\PLAN\PULLSITES\005-P64-2 & 65-1-PS.dwg\DMay-21-2010110Z

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
NO. 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

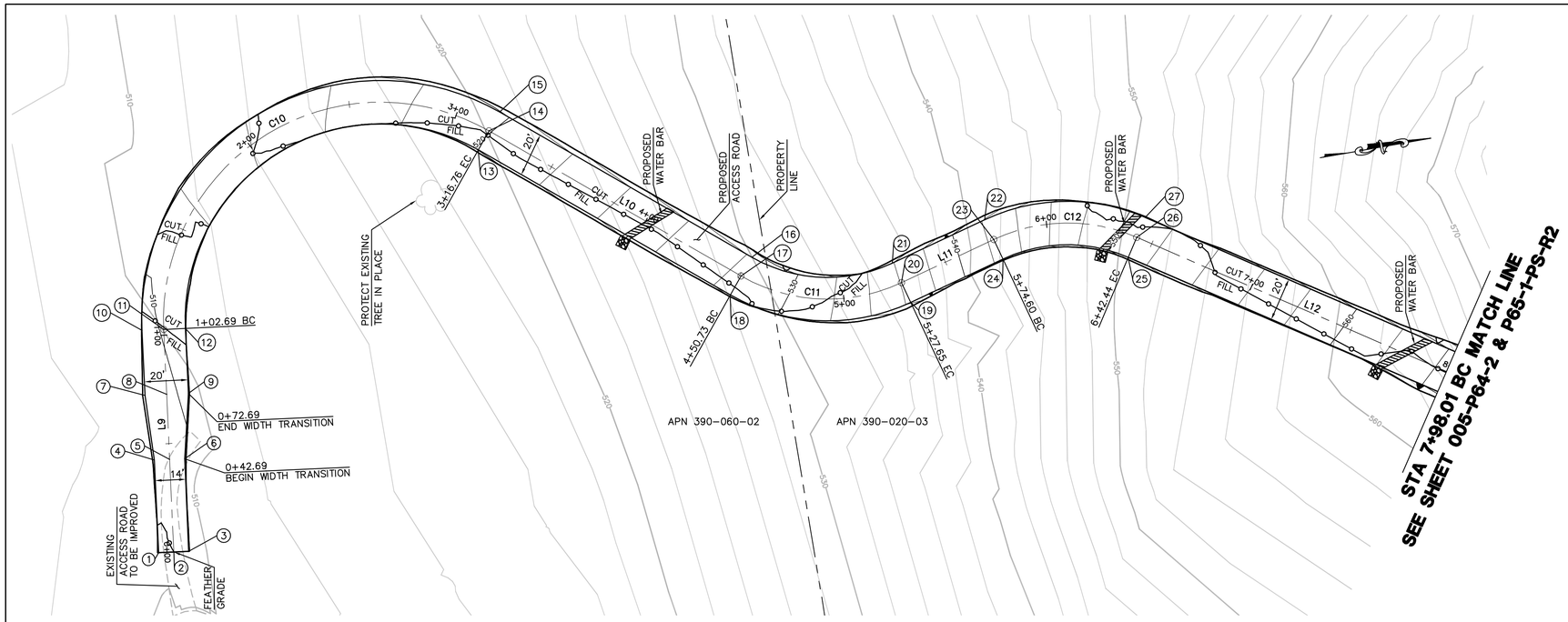
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
PULL SITE P-64-2 & P-65-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

05-P64-2 & P65-1-PS



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C10	100.10	214.07	122°31'42"
C11	80.00	76.92	55°05'12"
C12	80.00	67.84	48°35'16"
L9		102.69	N82°34'50"W
L10		133.98	N39°56'53"E
L11		46.95	N15°08'19"W
L12		155.57	N33°26'57"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1905408.55	6378034.38	(509.42)	EG
2	1905415.49	6378035.28	(509.56)	CL
3	1905422.29	6378036.17	(509.69)	EG
4	1905414.06	6377992.04	509.62	FG
5	1905421.00	6377992.95	509.76	CL
6	1905427.94	6377993.85	509.90	FG
7	1905414.96	6377961.91	509.70	FG
8	1905424.87	6377963.20	509.90	CL
9	1905434.79	6377964.49	510.10	FG
10	1905418.83	6377932.16	509.84	BC
11	1905428.75	6377933.45	510.04	CL/BC
12	1905438.66	6377934.74	510.24	BC
13	1905585.75	6377877.01	520.14	EC
14	1905592.17	6377869.34	519.94	CL/EC
15	1905598.58	6377861.67	519.74	EC
16	1905701.30	6377947.70	528.17	BC
17	1905694.88	6377955.36	528.37	CL/BC
18	1905688.46	6377963.03	528.57	BC
19	1905769.75	6377980.91	536.29	EC
20	1905767.14	6377971.26	536.09	CL/EC
21	1905764.52	6377961.60	535.89	EC
22	1905809.85	6377949.34	542.19	BC
23	1905812.46	6377958.99	542.39	CL/BC
24	1905815.07	6377968.65	542.59	BC
25	1905871.94	6377977.81	551.11	EC
26	1905877.45	6377969.47	550.91	CL/EC
27	1905882.96	6377961.12	550.71	EC

EARTH QUANTITIES:
CUT: 144 CY
FILL: 145 CY
NET: 1 CY

DISTURBED AREA:
ACCESS ROAD: 17173 SF

QUANTITIES:
RIP RAP: 75 SF
DOWN DRAIN: 4 LF

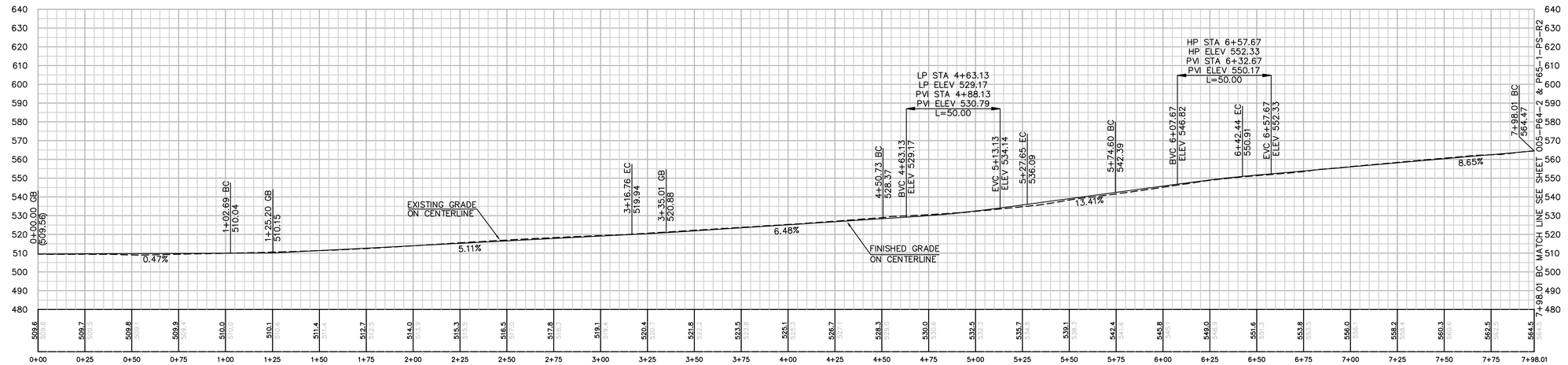
LENGTH OF ACCESS ROAD: 798 LF

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

ACCESS ROAD TO PULL SITE P-64-2 & P-65-1 PLAN (TEMPORARY)

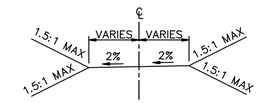
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'



PROFILE: ACCESS ROAD TO PULL SITE P-64-2 & P-65-1

HORZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 0+00 TO 7+98.01 BC

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P64-2 & 65-1-PS-R1.dwg©May-20-20101600

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

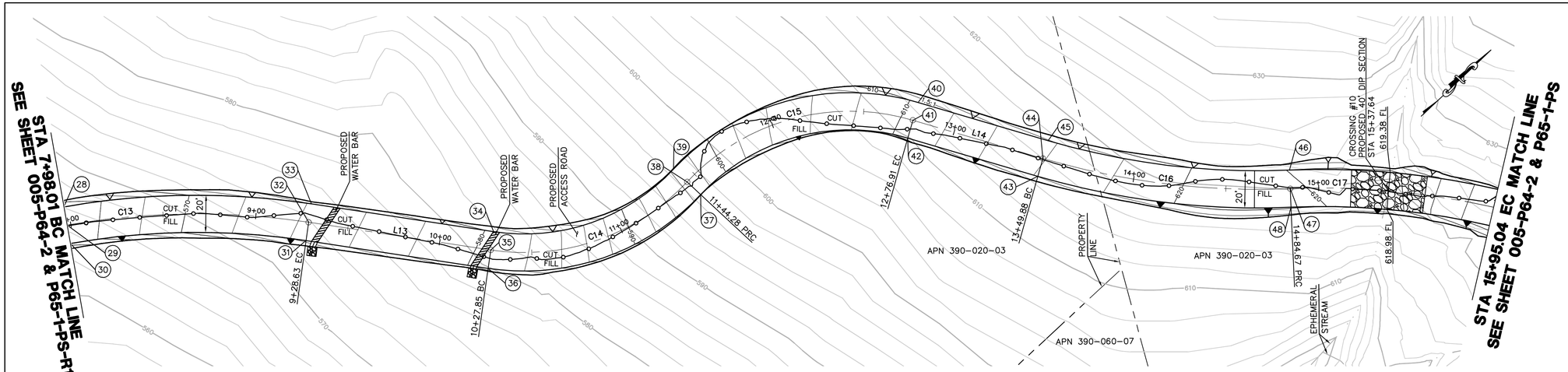
NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)

ACCESS ROAD TO PULL SITE P-64-2 & P-65-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:		05-P64-2 & P65-1-PS-R1	
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			



CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
C13	400.00	130.62	18°42'34"
C14	120.00	116.43	55°35'34"
C15	120.00	132.63	63°19'29"
C16	410.00	134.80	18°50'14"
C17	410.00	110.37	15°25'25"
L13		99.22	N52°09'30"E
L14		72.97	N59°53'26"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
28	1906012.77	6378046.88	564.27	BC
29	1906007.25	6378055.22	564.47	CL/BC
30	1906001.74	6378063.56	564.67	BC
31	1906094.76	6378149.71	574.54	EC
32	1906102.66	6378143.58	574.34	CL/EC
33	1906110.56	6378137.44	574.14	EC
34	1906171.43	6378215.79	580.29	BC
35	1906163.53	6378221.93	580.49	CL/BC
36	1906155.63	6378228.06	580.69	BC
37	1906266.08	6378278.08	596.79	PRC
38	1906265.48	6378268.10	596.59	CL/PRC
39	1906264.88	6378258.11	596.39	PRC
40	1906385.13	6378322.67	610.35	EC
41	1906376.48	6378327.68	610.55	CL/EC
42	1906367.83	6378332.70	610.75	EC
43	1906404.43	6378395.82	616.12	BC
44	1906413.08	6378390.81	615.92	CL/BC
45	1906421.73	6378385.79	615.72	BC
46	1906505.06	6378486.77	619.97	PRC
47	1906498.49	6378494.31	620.17	CL/PRC
48	1906491.92	6378501.85	620.37	PRC

EARTH QUANTITIES:
CUT: 303 CY
FILL: 249 CY
NET: 54 CY
DIP SECTION EXPORT: 56 CY

DISTURBED AREA:
ROAD: 19,973 SF

QUANTITIES:
RIP RAP: 50 SF
DOWN DRAIN: 4 LF
DIP SECTIONS: 820 SF

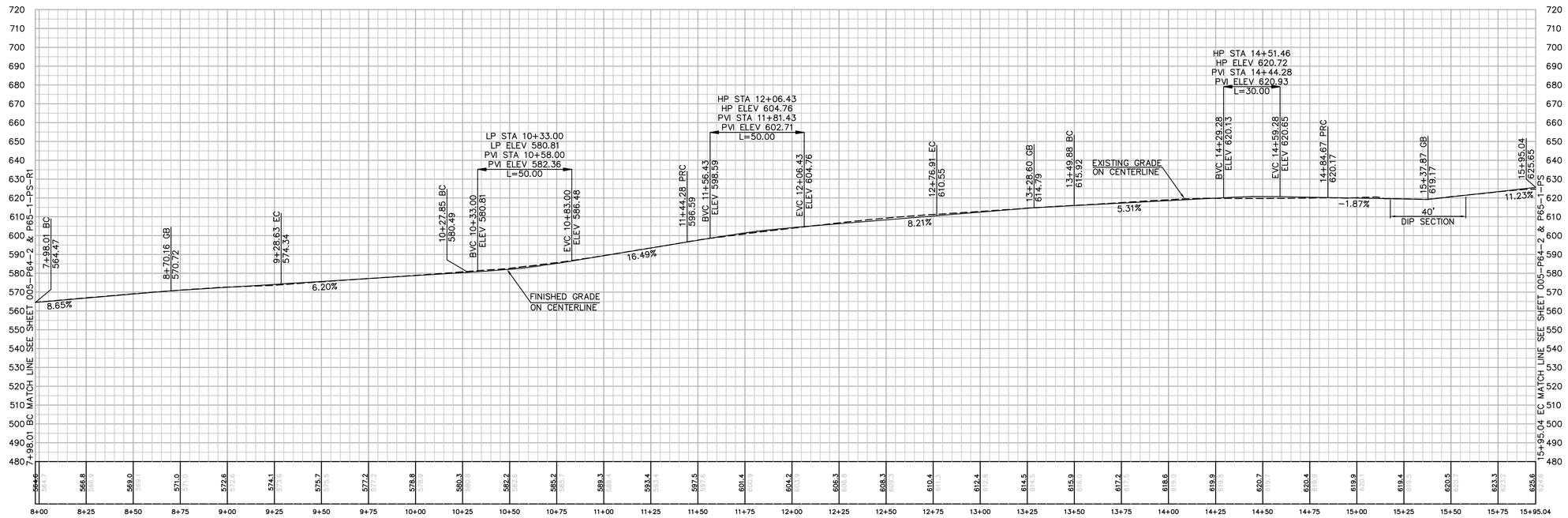
LENGTH OF ACCESS ROAD: 797 LF

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

ACCESS ROAD TO PULL SITE P-64-2 & P-65-1 PLAN (TEMPORARY)

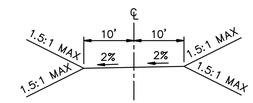
SCALE: 1" = 30'

GRAPHIC SCALE
30 0 30 60
1"=30'

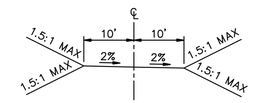


PROFILE: ACCESS ROAD TO PULL SITE P-64-2 & P-65-1

HORZ. & VERT. SCALE: 1" = 30'



TYPICAL ACCESS ROAD CROSS SECTION
STA 7+98.01 BC TO 15+12.14
STA 15+63.14 TO 15+95.04 EC



TYPICAL ACCESS ROAD CROSS SECTION
STA 15+12.14 TO 15+63.14

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P64-2 & 65-1-PS-R2.dwg\Moy-20-2010\558

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER
STEPHEN K. SMITH
REF. 29708
Exp. 3-31-11
CIVIL
STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

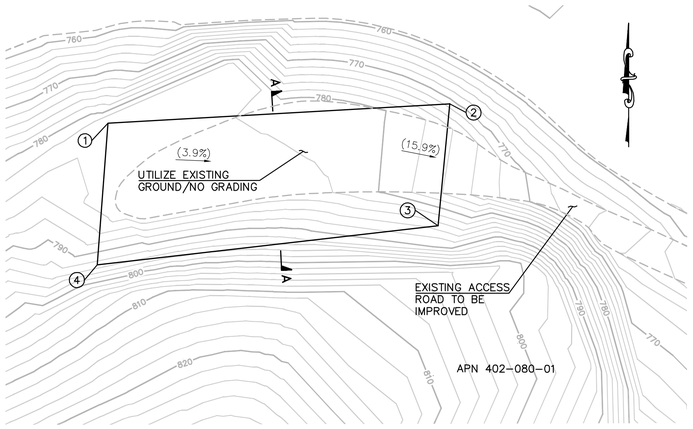
SPL-05 (LINK 5)

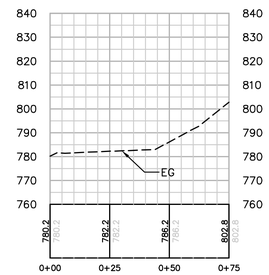
ACCESS ROAD TO PULL SITE P-64-2 & P-65-1

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.
CHECKED BY:	DATE:		
APPROVED BY:	DATE:		
CAD NO.:	PLOT SCALE: 1 = 1		

REV. 0

05-P64-2 & P65-1-PS-R2





SECTION A-A

HORIZ. & VERT. SCALE: 1" = 30'

PULL SITE (NORTH) P-75-1 PLAN (TEMPORARY)

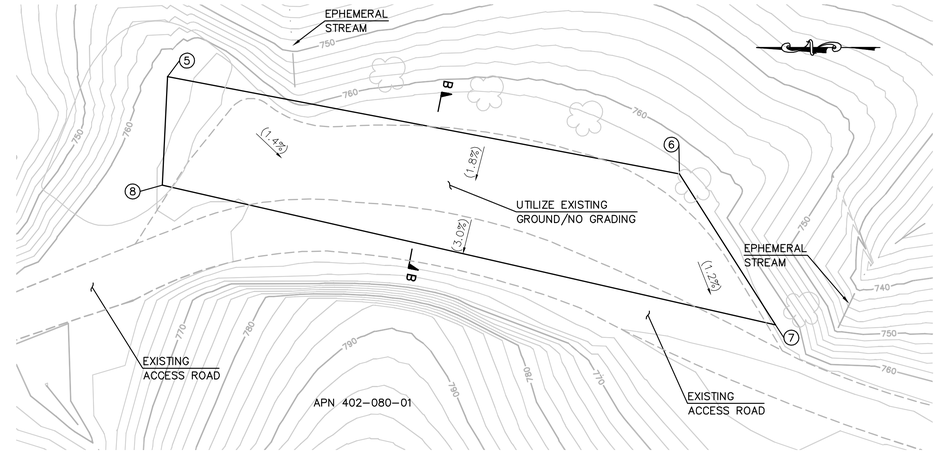
SCALE: 1" = 30'

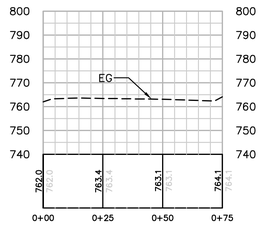
GRAPHIC SCALE 30 0 30 60 1"=30'

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1900549.31	6393515.18	(782.12)	EG
2	1900582.80	6393654.68	(771.16)	EG
3	1900531.74	6393659.03	(784.85)	EG
4	1900490.08	6393521.31	(792.82)	EG

EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA:
TOTAL: 7,841 SF





SECTION B-B

HORIZ. & VERT. SCALE: 1" = 30'

PULL SITE (SOUTH) P-75-1 PLAN (TEMPORARY)

SCALE: 1" = 30'

GRAPHIC SCALE 30 0 30 60 1"=30'

EARTH QUANTITIES:
CUT: 0 CY
FILL: 0 CY
NET: 0 CY

DISTURBED AREA:
TOTAL: 11,866 SF

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
5	1899289.30	6394051.49	(761.65)	EG
6	1899074.72	6394010.75	(762.87)	EG
7	1899034.50	6393947.54	(761.82)	EG
8	1899291.44	6394006.02	(762.07)	EG

NOTE: GRADING IS TEMPORARY ON TEMPORARY PULL SITE LOCATIONS AND ACCESS ROADS.

P:\16919 SDG&E SPL\CADD\05\dwg\PLAN\PULLSITES\005-P75-1-PS.dwg\JMcy-20-20101601

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

REVISIONS

NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:	NO.	WORK DONE	DATE	BY:	APP'D:

SAN DIEGO GAS & ELECTRIC COMPANY
SAN DIEGO, CALIFORNIA

SPL-05 (LINK 5)
PULL SITE P-75-1 (NORTH) & (SOUTH)

DRAWN BY: 00	DATE:	SCALE: 1" = 30'	W.O.	REV. 0
CHECKED BY:	DATE:			
APPROVED BY:	DATE:			
CAD NO.:	PLOT SCALE: 1 = 1			

05-P75-1-PS-A&B

SUNRISE POWERLINK PROJECT
SECTION 5 (LINK 5)
230kV LINE

GENERAL NOTES

1. A PERMIT SHALL BE OBTAINED FROM THE SAN DIEGO COUNTY DEPARTMENT OF PUBLIC WORKS FOR ANY WORK WITHIN THE COUNTY PUBLIC STREET RIGHT-OF-WAY.
2. THE STRUCTURAL SECTION SHALL BE IN ACCORDANCE WITH SAN DIEGO COUNTY STANDARDS AND AS APPROVED BY THE COUNTY'S MATERIALS LABORATORY.
3. APPROVAL OF THESE IMPROVEMENT PLANS AS SHOWN DOES NOT CONSTITUTE APPROVAL OF ANY CONSTRUCTION OUTSIDE THE PROJECT BOUNDARY.
4. IMPORT MATERIAL SHALL BE OBTAINED FROM A LEGAL SITE.
5. ALL UNDERGROUND UTILITIES WITHIN THE STREET RIGHT-OF-WAY SHALL BE CONSTRUCTED, CONNECTED AND TESTED PRIOR TO CONSTRUCTION OF BERM, CURB, CROSS GUTTER AND PAVING.
6. ALL SLOPES OVER THREE FEET IN HEIGHT WILL BE PLANTED IN ACCORDANCE WITH SAN DIEGO COUNTY SPECIFICATIONS.
7. IT SHALL BE THE RESPONSIBILITY OF THE DEVELOPER TO CONTACT THE UTILITY AGENCIES, ADVISE THEM OF THE PROPOSED IMPROVEMENTS AND BEAR THE COST OF RELOCATIONS, IF NEEDED.
8. THE CONTRACTOR SHALL VERIFY THE EXISTENCE AND LOCATION OF ALL UTILITIES BEFORE COMMENCING WORK. NOTICE OF PROPOSED WORK SHALL BE GIVEN TO THE FOLLOWING AGENCIES: SAN DIEGO GAS & ELECTRIC, PACIFIC BELL, CABLE TV, WATER DISTRICT, AND SANITATION DISTRICT.
9. A SOILS REPORT MAY BE REQUIRED PRIOR TO THE ISSUANCE OF A BUILDING PERMIT.
10. LOCATION AND ELEVATION OF IMPROVEMENTS TO BE MET BY WORK TO BE DONE SHALL BE CONFIRMED BY FIELD MEASUREMENTS PRIOR TO CONSTRUCTION OF NEW WORK. CONTRACTOR WILL MAKE EXPLORATORY EXCAVATIONS AND LOCATE EXISTING UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION TO PERMIT REVISIONS TO PLANS IF REVISIONS ARE NECESSARY BECAUSE OF ACTUAL LOCATION OF EXISTING FACILITIES.
11. ALL MAJOR SLOPES SHALL BE ROUNDED INTO EXISTING TERRAIN TO PRODUCE A CONTOURED TRANSITION FROM CUT OR FILL FACES TO NATURAL GROUND AND ABUTTING CUT OR FILL SURFACES.
12. NOTWITHSTANDING THE MINIMUM STANDARDS SET FORTH IN THE GRADING ORDINANCE AND NOTWITHSTANDING THE APPROVAL OF THESE GRADING PLANS, THE PERMITTEE IS RESPONSIBLE FOR THE PREVENTION OF DAMAGE TO ADJACENT PROPERTY. NO PERSON SHALL EXCAVATE ON LAND SO CLOSE TO THE PROPERTY LINE AS TO ENDANGER ANY ADJOINING PUBLIC STREET, SIDEWALK ALLEY, FUNCTION OF ANY SEWAGE DISPOSAL SYSTEM, OR ANY OTHER PUBLIC OR PRIVATE PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM SETTLING, CRACKING, EROSION SILTING, SCOUR OR OTHER DAMAGE WHICH MIGHT RESULT FROM THE GRADING DESCRIBED ON THIS PLAN. THE COUNTY WILL HOLD THE PERMITTEE RESPONSIBLE FOR CORRECTION OF NON-DEPICTED IMPROVEMENTS WHICH DAMAGE ADJACENT PROPERTY.
13. POWER SOURCES AND RUNS SERVING STREET LIGHTS SHALL BE SHOWN ON THE "AS-BUILT " IMPROVEMENT DRAWINGS. ALL SOURCES SHALL BE LOCATED WITHIN THE DEDICATED RIGHT-OF-WAY, OR WITHIN EASEMENTS DEDICATED TO THE COUNTY OF SAN DIEGO.

GENERAL NOTES (CONTINUED)

14. SPECIAL CONDITION: IF ANY ARCHEOLOGICAL RESOURCES ARE DISCOVERED ON THE SITE OF THIS GRADING DURING GRADING OPERATIONS, SUCH OPERATIONS WILL CEASE IMMEDIATELY, AND THE PERMITTEE WILL NOTIFY THE DIRECTOR OF PUBLIC WORKS OF THE DISCOVERY. GRADING OPERATIONS WILL NOT RECOMMENCE UNTIL THE PERMITTEE HAS RECIEVED WRITTEN AUTHORITY FROM THE DIRECTOR OF PUBLIC WORKS.
15. NO PAVING SHALL BE DONE UNTIL EXISTING POWER POLES ARE RELOCATED OUTSIDE THE AREAS TO BE PAVED.
16. PRIVATE ROAD IMPROVEMENTS SHOWN HEREON ARE FOR INFORMATION ONLY. COUNTY OFFICIALS SIGNATURE HEREON DOES NOT CONSTITUTE APPROVAL OR RESPONSIBILITY OF ANY KIND FOR THE DESIGN OR CONSTRUCTION OF THESE PRIVATE IMPROVEMENTS. (IF APPLICABLE)
17. FINISHED GRADING SHALL BE CERTIFIED BY A REGISTERED CIVIL ENGINEER AND INSPECTED BY THE COUNTY ENGINEER FOR DRAINAGE CLEARANCE.

CONTRACTOR'S NOTE

CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY; THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRATOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD COUNTY OF SAN DIEGO 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 COUNTY OF SAN DIEGO PROFESSIONALS.

ENGINEER'S NOTE

UNAUTHORIZED CHANGES & USES: THE ENGINEER OF WORK PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES TO THE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS.

BASIS OF COORDINATES

THE BASIS OF COORDINATES OF THIS SURVEY IS THE CALIFORNIA COORDINATE SYSTEM, ZONE 6, NAD 83 (1992). THE COORDINATES ARE DISPLAYED IN US SURVEY FEET. THE BASIS OF ELEVATIONS IS NAVD 88. ELEVATIONS ARE DISPLAYED IN US SURVEY FEET.

PLAN SHEET INDEX:

UNDERGROUND SERVICE ALERT

CALL BEFORE YOU DIG

CALL:TOLL FREE
1-800
422-4133

"CAUTION": TWO WORKING DAYS BEFORE YOU DIG REMEMBER THAT THE USA CENTER NOTIFIES ONLY THOSE UTILITIES BELONGING TO THE CENTER. THERE COULD BE OTHER UTILITIES PRESENT AT THE WORK SITE. THE CENTER WILL INFORM YOU OF WHOM THEY WILL NOTIFY. NOTIFIES ONLY THOSE UTILITIES BELONGING TO

WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

FOR DIRECTOR OF PUBLIC WORKS DATE

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

LEGAL DESCRIPTION

ASSESSORS PARCEL NO. _____

RECORD PLAN

NAME: _____
R.C.E. _____
DATE: _____

LEGAL DESCRIPTION

ASSESSORS PARCEL NO. _____

RECORD PLAN

NAME: _____
R.C.E. _____
DATE: _____

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH NO. 29708 Exp.3-31-11 CIVIL STATE OF CALIFORNIA

NAME: STEPHEN K. SMITH
PHONE NO. (858)451-6100
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127

PERMITS

REZONE PERMIT NO. _____
SPECIAL USE PERMIT NO. _____
GRADING PERMIT NO. _____

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK

NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88

NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' DATUM: NAVD 88

NAME: _____
LOCATION: _____
DESCRIPTION: _____
ELEVATION: _____ DATUM: _____

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	7 SHEETS
1		

IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK

PRIVATE ROADWAY / DRIVEWAY PLANS
SECTION 05 IMPROVEMENTS
TITLE SHEET

ENGINEER OF WORK: STEPHEN K. SMITH	CHECKED BY:	IMPROVEMENT PLAN NO.
R.C.E. 29708	APPROVAL DATE:	

SPL-05 (LINK 5) | 05-DWY-01

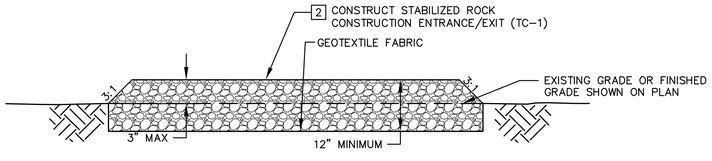
p:\16919 sdg&e spl\agency permit list\exhibits\cadd\05\plan\1-05 cover.dwg 7/1/2010 9:15 AM

CONSTRUCTION NOTE:

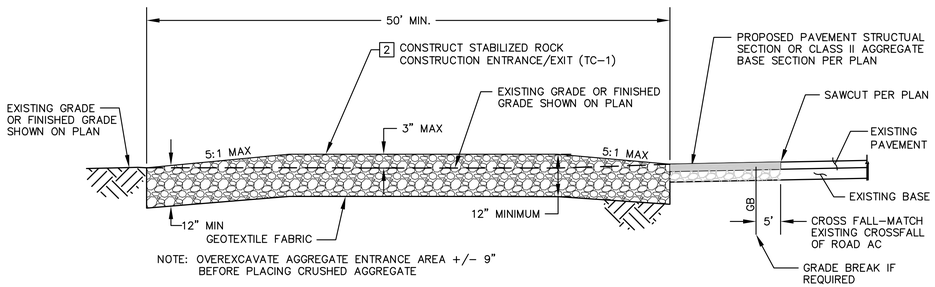
1. CONSTRUCT * ASPHALT CONCRETE OVER * CLASS II AGGREGATE BASE
2. CONSTRUCT STABILIZED CONSTRUCTION APPROACH AT CONSTRUCTION ENTRANCE PER DETAILS ON SHEET 2.
3. SAWCUT AND JOIN EXISTING PAVEMENT
4. CONSTRUCT 8" CLASS II AGGREGATE BASE ROAD ENTRANCE, DETAILS ON SHEET 2.
5. INSTALL SIGN W11-10 (TRUCK) WITH W13-IP (XX MPH).
6. PROVIDE CONSTRUCTION TRAFFIC CONTROL AS APPROPRIATE TA-6, TA-10 OR TA-11 RESTORE TO TWO LANE OPERATION AT NIGHT WITH TA-1,TA-3 OR TA-6 AT NIGHT AS APPROPRIATE PER DETAIL ON SHEET 3
7. CONSTRUCT 6" AC BERM PER COUNTY STD G-5, TYPE A.
8. CONSTRUCT FENCE AND/OR GATE PER SDG&E.
9. CONSTRUCT 2" AC OVERLAY
10. CONSTRUCT CULVERT. (SIZE TO MATCH EXISTING)
11. CONSTRUCT COLLAR

NOTE:

1. * STRUCTURAL SECTION IS SHOWN ON PLANS
2. ** THE PAVEMENT STRUCTURAL SECTION SUBGRADE SHALL BE PREPARED AS FOLLOWS: 12 INCHES OF SUBGRADE SHALL BE REMOVED AND RECOMPACTED TO 95% RELATIVE COMPACTION PER ASTM D1557. IN ADDITION THE SUBGRADE SHOULD BE PROOF ROLLED TO ELIMINATE PUMPING OF SUBGRADE.
3. STABILIZED ROCK SHALL BE CRUSHED AGGREGATE GREATER THAN 3" BUT SMALLER THAN 6". COMPACT TO FILL VOID SPACES TO THE SATISFACTION OF THE GEOTECHNICAL ENGINEER.
4. TC-1 PER STORM WATER BMP HAND BOOK. ROCK SHALL BE COMPACTED PER NOTE ABOVE.

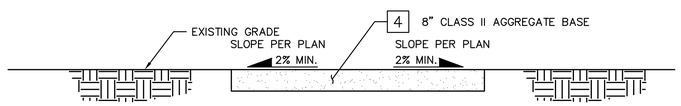


SECTION A-A
NOT TO SCALE

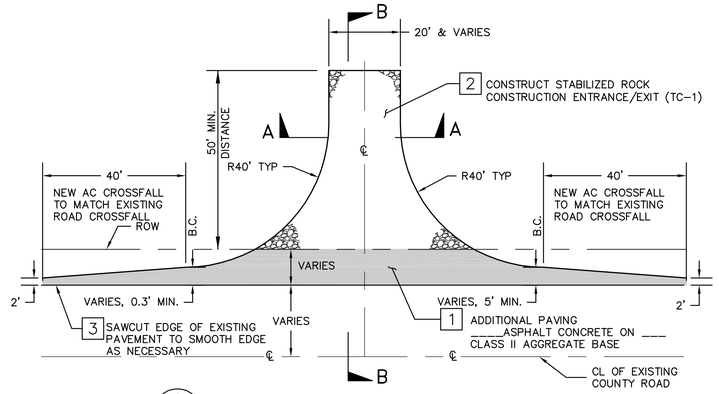


NOTE: OVEREXCAVATE AGGREGATE ENTRANCE AREA +/- 9" BEFORE PLACING CRUSHED AGGREGATE

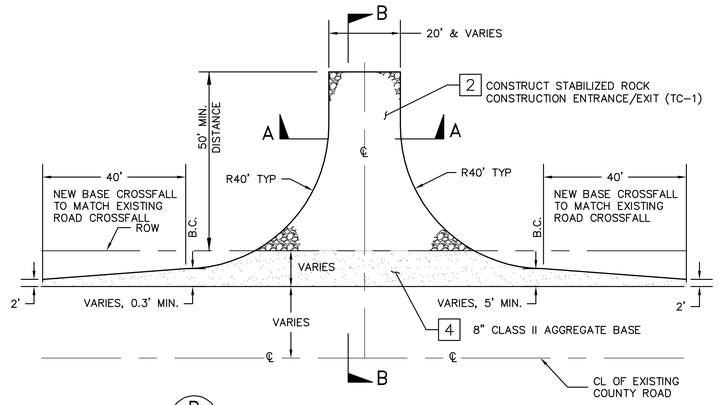
SECTION B-B
NOT TO SCALE



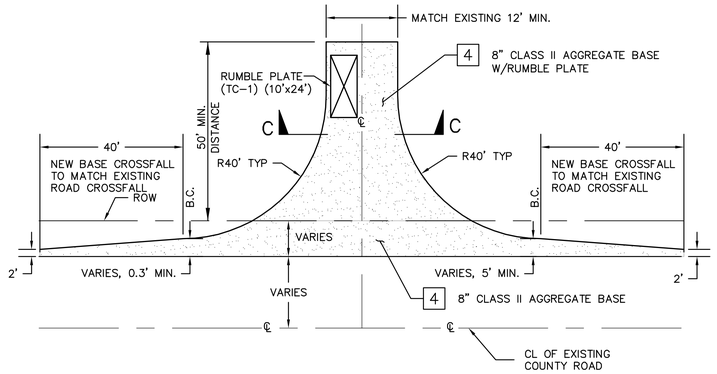
SECTION C-C



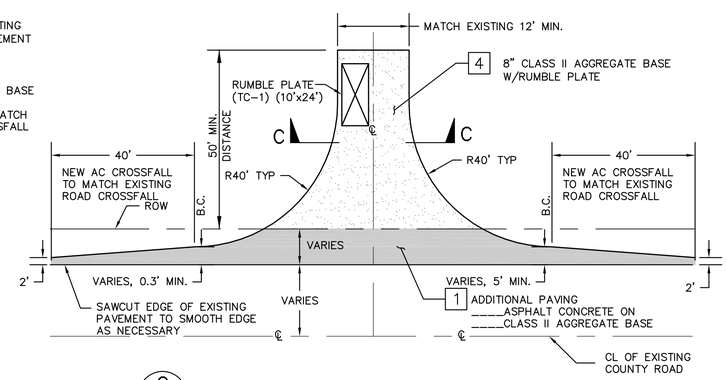
A — TYPICAL TRANSITION AT NEW SDG&E PRIVATE ROAD CONNECTION
NOT TO SCALE



B — TYPICAL TRANSITION AT SDG&E-TEMPORARY ACCESS ROAD
NOT TO SCALE



D — TYPICAL TRANSITION AT EXISTING ROADS/DRIVEWAY-SDG&E TEMPORARY USE
NOT TO SCALE



C — TYPICAL TRANSITION AT EXISTING ROADS-SDG&E PERMANENT USE
NOT TO SCALE

ABBREVIATIONS

AC	ASPHALT CONCRETE PAVING
BW	BOTTOM OF WALL AT FINISHED GROUND
CMP	CORRUGATED METAL PIPE
D/S	DOWN STREAM
(EG)	EXISTING GRADE
FG	FINISHED GRADE
FL	FLOW LINE
GB	GRADE BREAK
PP	POWER POLE
RC	RELATIVE COMPACTION
RD	ROAD
TW	TOP OF WALL
U/S	UP STREAM
EA	EACH
LS	LUMP SUM

LEGEND

- PROPOSED ASPHALT
- STABILIZED ROCK
- CLASS II AGGREGATE BASE
- A — A SECTION
- INDICATES NEW TOWER
- INDICATES EXISTING STEEL POLE
- NEW POWER LINE
- RIGHT-OF-WAY LINE
- X / XX DETAIL LABEL — DETAIL # / SHEET #
- TRAFFIC SIGN

WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

_____
FOR DIRECTOR OF PUBLIC WORKS DATE

LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO.	ASSESSORS PARCEL NO.
RECORD PLAN	**RECORD PLAN**
NAME:	NAME:
R.C.E.	R.C.E.
DATE:	DATE:

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER — STEPHEN K. SMITH — RCE 29708 — Exp. 3-31-11 — CIVIL — STATE OF CALIFORNIA

NAME: STEPHEN K. SMITH
PHONE NO. (858)451-6100
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127

PERMITS

REZONE PERMIT NO.
SPECIAL USE PERMIT NO.
GRADING PERMIT NO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK

NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88

NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' DATUM: NAVD 88

NAME:
LOCATION:
DESCRIPTION:
ELEVATION: DATUM:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	7 SHEETS
2		

IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK

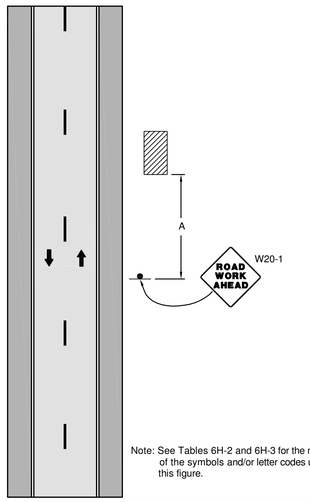
CONSTRUCTION NOTES, DETAILS, ABBREVIATIONS AND LEGEND

ENGINEER OF WORK	CHECKED BY:	IMPROVEMENT PLAN NO.
STEPHEN K. SMITH		
R.C.E. 29708	APPROVAL DATE:	

SPL-05 (LINK 5) | 05-DWY-02

p:\16919 sdg&e spi\agency permit list\exhibits\cadd\05\plan\2-05 notes.dwg 7/1/2010 9:18 AM

FIGURE 6H-1. WORK BEYOND THE SHOULDER (TA-1)



Notes for Figure 6H-1—Typical Application 1
Work Beyond the Shoulder

Guidance:

1. *If the work space is in the median of a divided highway, an advance warning sign should also be placed on the left side of the directional roadway.*

Option:

2. The ROAD WORK AHEAD sign may be replaced with other appropriate signs such as the SHOULDER WORK sign. The SHOULDER WORK sign may be used for work adjacent to the shoulder.
3. The ROAD WORK AHEAD sign may be omitted where the work space is behind a barrier, more than 24 inches behind the curb, or 15 feet or more from the edge of any roadway.
4. For short-term, short duration or mobile operation, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

Table 6H-2. Meaning of Symbols on Typical Application Diagrams

Arrow board	Shadow vehicle
Arrow board support or trailer (shown facing down)	Sign (shown facing left)
Changeable message sign or support trailer	Surveyor
Channelizing device	Temporary barrier
Crash cushion	Temporary barrier with warning light
Direction of temporary traffic detour	Traffic or pedestrian signal
Direction of traffic	Truck-mounted attenuator
Flagger	Type 3 barricade
High-level warning device (Flag tree)	Warning light
Longitudinal channelizing device	Work space
Luminaire	Work vehicle
Pavement markings that should be removed for a long-term project	

Table 6H-3. Meaning of Letter Codes on Typical Application Diagrams

Road Type	Distance Between Signs**		
	A	B	C
Urban (low speed)*	100 feet	100 feet	100 feet
Urban (high speed)*	300 feet	350 feet	350 feet
Rural	500 feet	500 feet	500 feet
Expressway / Freeway	1,000 feet	1,500 feet	2,640 feet

← RECOMMENDED

* Speed category to be determined by highway agency

** The column headings A, B, and C are the dimensions shown in Figures 6H-1 through 6H-46. The A dimension is the distance from the transition or point of restriction to the first sign. The B dimension is the distance between the first and second signs. The C dimension is the distance between the second and third signs. (The "first sign" is the sign in a three-sign series that is closest to the TTC zone. The "third sign" is the sign that is furthest upstream from the TTC zone.)

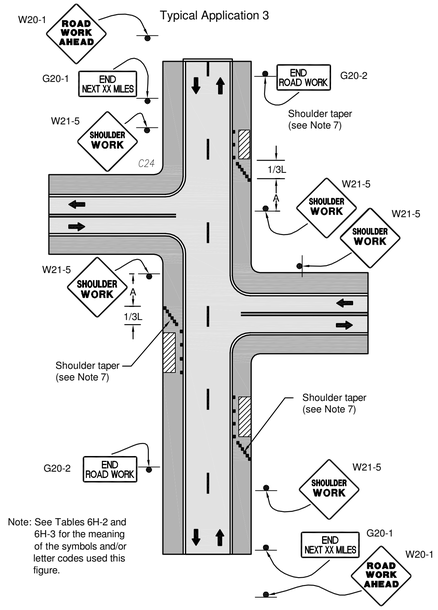
Table 6H-4. Formulas for Determining Taper Length

Speed (S)	Taper Length (L) in feet
40 mph or less	$L = \frac{WS^2}{60}$
45 mph or more	$L = WS$

Where: L = taper length in feet
W = width of offset in feet
S = posted speed limit, or off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed in mph

FIGURE 6H-3. WORK ON THE SHOULDERS (TA-3)

Typical Application 3



Notes for Figure 6H-3—Typical Application 3
Work on the Shoulders

Guidance:

1. *A SHOULDER WORK sign should be placed on the left side of the roadway for a divided or one-way street only if the left shoulder is affected.*

Option:

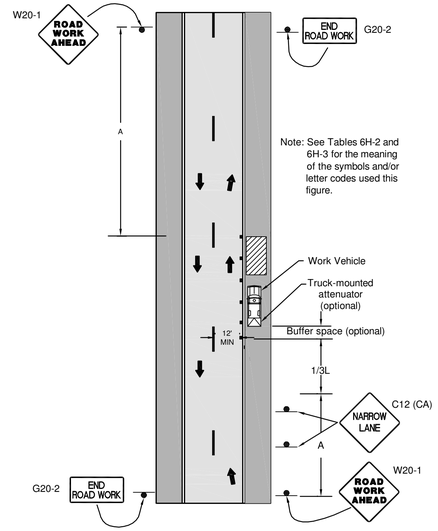
2. The Workers symbol signs may be used instead of SHOULDER WORK signs.
3. The SHOULDER WORK AHEAD sign on an intersecting roadway may be omitted where drivers emerging from that roadway will encounter another advance warning sign prior to this activity area.
4. For short duration operations of 60 minutes or less, all signs and channelizing devices may be eliminated if a vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
5. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

6. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**
7. **When paved shoulders having a width of 8 feet or more are closed, at least one advance warning sign shall be used. In addition, channelizing devices shall be used to close the shoulder in advance to delineate the beginning of the work space and direct vehicular traffic to remain within the traveled way.**

FIGURE 6H-6. SHOULDER WORK WITH MINOR ENCROACHMENT (TA-6)

Typical Application 6



Notes for Figure 6H-6—Typical Application 6
Shoulder Work with Minor Encroachment

Guidance:

1. *All lanes should be a minimum of 10 feet in width as measured to the near face of the channelizing devices.*
2. *The treatment shown should be used on a minor road having low speeds. For higher-speed traffic conditions, a lane closure should be used.*

Option:

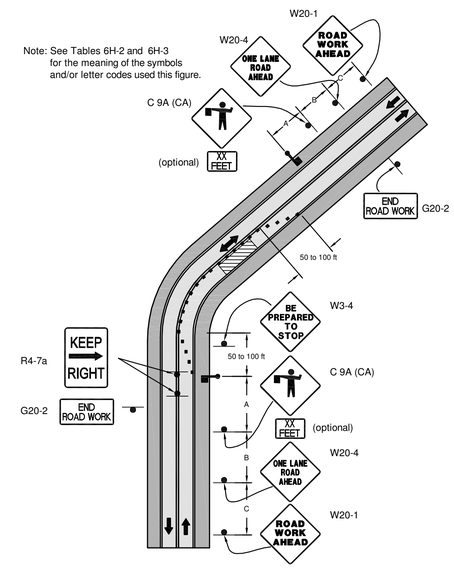
3. For short-term use on low-volume, low-speed roadways with vehicular traffic that does not include longer and wider heavy commercial vehicles, a minimum lane width of 9 feet may be used.
4. Where the opposite shoulder is suitable for carrying vehicular traffic and of adequate width, lanes may be shifted by use of closely-spaced channelizing devices, provided that the minimum lane width of 10 feet is maintained.
5. Additional advance warning may be appropriate, such as a ROAD NARROWS sign.
6. Temporary traffic barriers may be used along the work space.
7. The shadow vehicle may be omitted if a taper and channelizing devices are used.
8. A truck-mounted attenuator may be used on the shadow vehicle.
9. For short-duration work, the taper and channelizing devices may be omitted if a shadow vehicle with activated high-intensity rotating, flashing, oscillating, or strobe lights is used.
10. Vehicle hazard warning signals may be used to supplement high-intensity rotating, flashing, oscillating, or strobe lights.

Standard:

11. **Vehicle-mounted signs shall be mounted in a manner such that they are not obscured by equipment or supplies. Sign legends on vehicle-mounted signs shall be covered or turned from view when work is not in progress.**
12. **Shadow and work vehicles shall display high-intensity rotating, flashing, oscillating, or strobe lights.**
13. **Vehicle hazard warning signals shall not be used instead of the vehicle's high-intensity rotating, flashing, oscillating, or strobe lights.**

FIGURE 6H-10. LANE CLOSURE ON A TWO LANE ROAD USING FLAGGERS (TA-10)

Typical Application 10



Notes for Figure 6H-10—Typical Application 10
Lane Closure on a Two-Lane Road Using Flaggers

Option:

1. For low-volume situations with short work zones on straight roadways where the flagger is visible to road users approaching from both directions, a single flagger, positioned to be visible to road users approaching from both directions, may be used (see Chapter 6E).
2. The ROAD WORK AHEAD and the END ROAD WORK signs may be omitted for short-duration operations.
3. Flashing warning lights and/or flags may be used to call attention to the advance warning signs. A BE PREPARED TO STOP sign may be added to the sign series.

Guidance:

4. *The buffer space should be extended so that the two-way traffic taper is placed before a horizontal (or crest vertical) curve to provide adequate sight distance for the flagger and a queue of stopped vehicles.*

Standard:

5. **At night, flagger stations shall be illuminated, except in emergencies.**

Guidance:

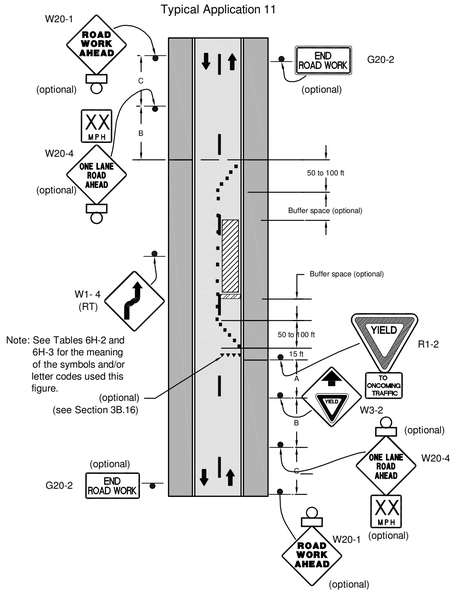
6. *When used, the BE PREPARED TO STOP sign should be located between the Flagger sign and the ONE LANE ROAD sign.*
7. *When a grade crossing exists within or upstream of the transition area and it is anticipated that queues resulting from the lane closure might extend through the grade crossing, the TTC zone should be extended so that the transition area precedes the grade crossing.*
8. *When a grade crossing equipped with active warning devices exists within the activity area, provisions should be made for keeping flaggers informed as to the activation status of these warning devices.*
9. *When a grade crossing exists within the activity area, drivers operating on the left-hand side of the normal center line should be provided with comparable warning devices as for drivers operating on the right-hand side of the normal center line.*
10. *Early coordination with the railroad company or light rail transit agency should occur before work starts.*

Option:

11. A flagger or a uniformed law enforcement officer may be used at the grade crossing to minimize the probability that vehicles are stopped within 15 feet of the grade crossing, measured from both sides of the outside rails.

FIGURE 6H-11. LANE CLOSURE ON A TWO-LANE ROAD WITH LOW TRAFFIC VOLUMES (TA-11)

Typical Application 11



Notes for Figure 6H-11—Typical Application 11
Lane Closure on a Two-Lane Road with Low Traffic Volumes

Option:

1. This TTC zone application may be used as an alternate to the TTC application shown in Figure 6H-10 (using flaggers) when the following conditions exist:
   a. Vehicular traffic volume is such that sufficient gaps exist for vehicular traffic that must yield.
   b. Road users from both directions are able to see approaching vehicular traffic through and beyond the worksite and have sufficient visibility of approaching vehicles.
2. The Type B flashing warning lights may be placed on the ROAD WORK AHEAD and the ONE LANE ROAD AHEAD signs whenever a night lane closure is necessary.

NOTE: TRAFFIC CONTROL PER ATTACHED TYPICAL APPLICATIONS (AASHTO) IS FOR DRIVEWAY/PRIVATE ROAD CONSTRUCTION IN COUNTY RIGHT-OF-WAY

WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131–D, DECISION 94–06–14 AS MODIFIED BY DECISION 95–08–038.

_____
FOR DIRECTOR OF PUBLIC WORKS DATE

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO.	ASSESSORS PARCEL NO.
RECORD PLAN	**RECORD PLAN**
NAME:	NAME:
R.C.E.	R.C.E.
DATE:	DATE:

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp.3-31-11 CIVIL STATE OF CALIFORNIA

NAME: STEPHEN K. SMITH
PHONE NO. (858)451-6100
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127

PERMITS

REZONE PERMIT NO.
SPECIAL USE PERMIT NO.
GRADING PERMIT NO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK

NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88

NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' DATUM: NAVD 88

NAME:
LOCATION:
DESCRIPTION:
ELEVATION: DATUM:

PRIVATE CONTRACT

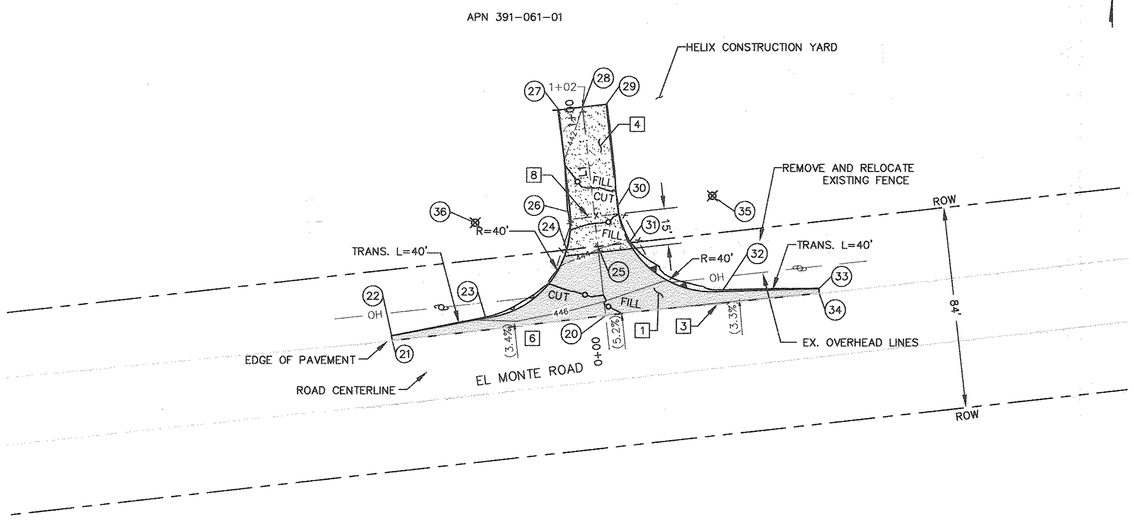
SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	7 SHEETS
3		

IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK

TRAFFIC CONTROL DETAILS

ENGINEER OF WORK: STEPHEN K. SMITH R.C.E. 29708	CHECKED BY: / APPROVAL DATE:	IMPROVEMENT PLAN NO.
SPL-05 (LINK 5)	05-DWY-03	

p:\16919 sdg&e sp\agency permit list\exhibits\cadd\05\plan\3-05 tc details.dwg 7/1/2010 9:16 AM



ACCESS TO HELIX YARD (PERMIT 5-1)

SCALE: 1"=30'

QUANTITIES:

1	PAVEMENT SECTION:	1825 SF
3	SAWCUT:	180 LF
4	AGGREGATE BASE:	1270 SF
6	TRAFFIC CONTROL:	LUMP SUM
8	FENCE:	25 LF

EARTHWORK QUANTITIES:

CUT:	9 CY
FILL:	17 CY
NET:	8 CY

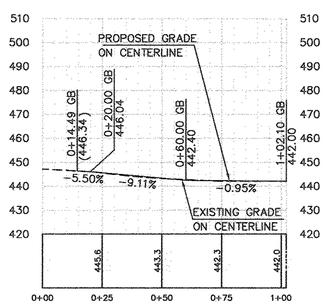
DISTURBED AREA:

ROAD: 3,302 SF

LENGTH OF ACCESS ROAD: 88 LF

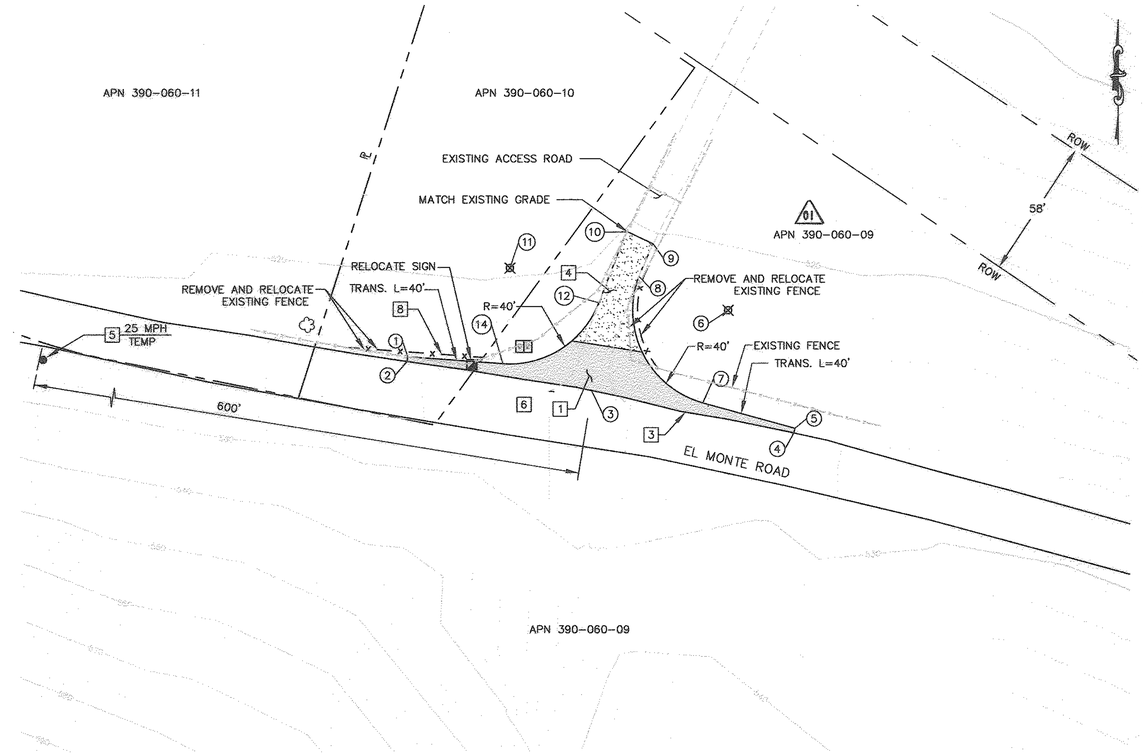
CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		102.10	N6°24'53"W

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
20	1896283.12	6365271.85	(446.34)	CL/EG
21	1896272.65	6365182.46	(446.16)	EG
22	1896274.63	6365182.23	446.05	FG
23	1896282.05	6365221.64	445.98	BC
24	1896310.56	6365255.57	443.63	PRC
25	1896312.01	6365268.60	443.89	CL/FG
26	1896326.27	6365256.93	442.28	EC
27	1896368.93	6365252.14	441.80	FG
28	1896370.15	6365262.06	442.00	CL/FG
29	1896371.27	6365272.00	442.20	FG
30	1896328.59	6365276.80	442.67	BC
31	1896313.47	6365281.67	444.16	PRC
32	1896293.27	6365320.63	446.44	FG
33	1896294.42	6365361.14	446.75	FG
34	1896292.43	6365361.37	(446.86)	EG
35	1896333.06	6365316.55		RP
36	1896321.80	6365217.18		RP



PROFILE: ACCESS TO HELIX YARD

SCALE: 1"=30'



ACCESS TO HARTUNG YARD (PERMIT 5-2)

SCALE: 1"=30'

QUANTITIES:

1	PAVEMENT SECTION:	1516 SF
3	SAWCUT:	170 LF
4	AGGREGATE BASE:	760 SF
5	SIGN:	1 EA
6	TRAFFIC CONTROL:	LUMP SUM

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1904277.44	6380146.85		EG
2	1904275.47	6380146.58		EG
3	1904263.38	6380223.91		EG
4	1904245.70	6380308.76		EG
5	1904247.65	6380309.18		EG
6	1904296.78	6380281.14		RP
7	1904258.20	6380270.58		BC/EG
8	1904311.03	6380243.72		EC/EG
9	1904324.47	6380249.70		EG
10	1904329.52	6380238.97		EG
11	1904314.41	6380189.67		RP
12	1904299.94	6380226.96		EC/EG
14	1904274.52	6380186.75		BC/EG

IFC SHEET REVISIONS				
REVISION NUMBER	DESCRIPTION	DATE	DRAFTED BY	APPROVED BY
01	MEET & CONFER/INSPECTION NOTES, TITLE BLOCK, APN #	8/19/2010	JB	MB

CONSTRUCTION NOTE:

1. CONSTRUCT 3" ASPHALT CONCRETE OVER 8" CLASS II AGGREGATE BASE
3. SAWCUT AND JOIN EXISTING PAVEMENT
4. CONSTRUCT 8" CLASS II AGGREGATE BASE ROAD ENTRANCE, DETAILS ON SHEET 2.
5. INSTALL SIGN W11-10 (TRUCK) WITH W13-IP (XX MPH).
6. PROVIDE CONSTRUCTION TRAFFIC CONTROL AS APPROPRIATE TA-6, TA-10 OR TA-11 RESTORE TO TWO LANE OPERATION AT NIGHT WITH TA-1,TA-3 OR TA-6 AT NIGHT AS APPROPRIATE PER DETAIL ON SHEET 3
8. CONSTRUCT FENCE AND/OR GATE PER SDG&E.

01 WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS FOR THE SDG&E SUNRISE POWERLINK DRIVEWAY IMPROVEMENTS (ACCESS FROM EL MONTE ROAD) ON APN 391-061-01 AND APN 392-060-09 AND APN 390-060-10, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

Kenneth J. Brazell 7-02-10

FOR DIRECTOR OF PUBLIC WORKS DATE

01 INSPECTIONS

TO REQUEST AN INSPECTION, CALL PRIVATE DEVELOPMENT CONSTRUCTION INSPECTION DURING NORMAL BUSINESS HOURS AT (858) 694-3165 AT LEAST 24 HOURS BEFORE START AND FINISH OF WORK. WHEN CALLING FOR AN INSPECTION, REFER TO THE COMPUTER GENERATED TRAFFIC PERMIT NUMBER AND THE JOB SITE ADDRESS OF YOUR SITE. IN MOST CASES, CONSTRUCTION INSPECTION REQUIRES ONE (1) WORKING DAY NOTICE FOR INSPECTIONS. WE MAY NOT BE ABLE TO PROVIDE NEXT DAY INSPECTIONS IN SOME OF THE MORE REMOTE AREAS OF THE COUNTY OF SAN DIEGO. PLEASE VERIFY WITH THE PERSON TAKING THE INSPECTION REQUEST WHAT DAY THE INSPECTOR WILL BE OUT TO THE SITE.

01

LEGAL DESCRIPTION

ASSESSORS PARCEL NO. 391-061-01

RECORD PLAN

NAME:

R.C.E.

DATE:

LEGAL DESCRIPTION

ASSESSORS PARCEL NO. 390-060-09

RECORD PLAN

NAME:

R.C.E.

DATE:

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH RCE 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

NAME: STEPHEN K. SMITH

PHONE NO. (858)451-6100

ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA. 92127

PERMITS

REZONE PERMIT NO.

SPECIAL USE PERMIT NO.

GRADING PERMIT NO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK

NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88

NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' DATUM: NAVD 88

NAME:
LOCATION:
DESCRIPTION:
ELEVATION: DATUM:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	7 SHEETS
4		

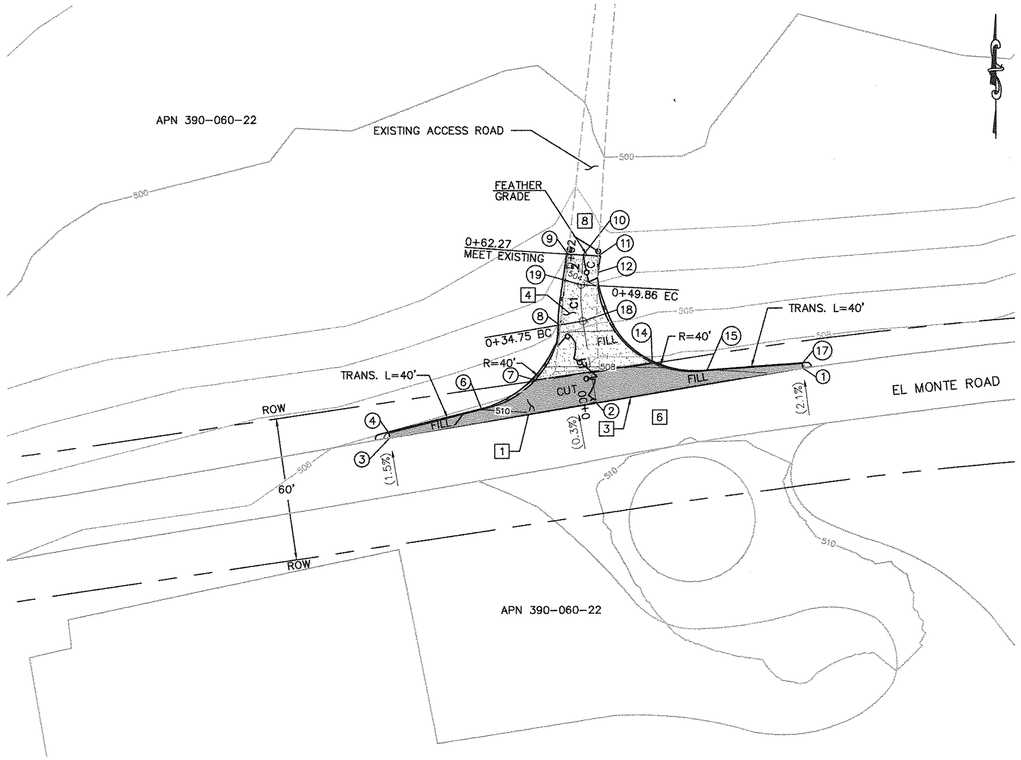
IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK

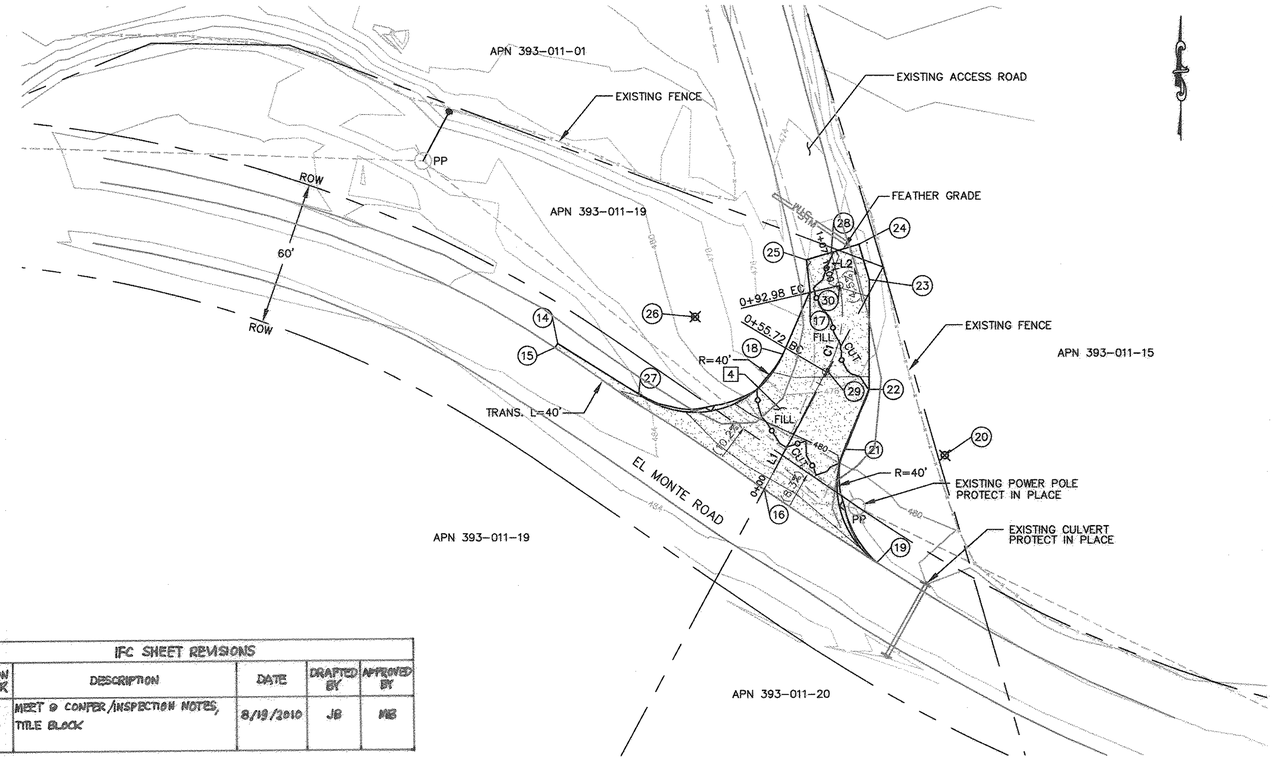
ACCESS ROAD IMPROVEMENTS ON EL MONTE ROAD PERMIT 05-1 & 05-2

ENGINEER OF WORK: STEPHEN K. SMITH R.C.E. 29708 | CHECKED BY: | APPROVAL DATE: | IMPROVEMENT PLAN NO.

SPL-05 (LINK 5) | 05-DWY-04

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com





IFC SHEET REVISIONS				
REVISION NUMBER	DESCRIPTION	DATE	DRAFTED BY	APPROVED BY
01	MEET @ CONFER/INSPECTION NOTES, TITLE BLOCK	8/19/2010	JB	MB

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA
L1		34.75	N9°23'17"W
C1	65.00	15.11	13°18'55"
L2		12.41	N3°55'38"E

ACCESS TO P64-2-P65-1 PULLSITE (PERMIT 5-3)

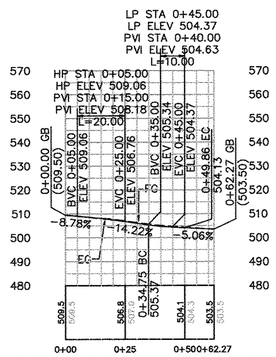
SCALE: 1"=30'

QUANTITIES:
1 PAVEMENT SECTION: 1327 SF
3 SAWCUT: 177 LF
4 AGGREGATE BASE: 1077 SF
6 TRAFFIC CONTROL: LUMP SUM
8 GATE: 1 EA

EARTH QUANTITIES:
CUT: 31 CY
FILL: 29 CY
NET: 2 CY

DISTURBED AREA:
ROAD: 2,568 SF
LENGTH OF ACCESS ROAD: 62 LF

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1904979.18	6378508.94	(507.74)	EG
2	1904964.87	6378422.38	(509.50)	CL/EG
3	1904950.56	6378335.81	(511.25)	EG
4	1904952.53	6378335.46	511.22	FG
6	1904962.37	6378374.35	509.47	FG
7	1904974.52	6378396.73	508.67	FG
8	1904997.31	6378407.21	505.60	FG
9	1905027.02	6378410.54	(503.62)	EG
10	1905026.59	6378416.84	(503.50)	CL/EG
11	1905026.16	6378423.14	(503.37)	EG
12	1905019.28	6378422.86	503.72	FG
14	1904981.65	6378445.86	507.78	FG
15	1904978.30	6378468.71	508.23	FG
17	1904981.20	6378508.67	507.70	FG
18	1904999.16	6378416.71	505.37	CL/FG/BC
19	1905014.21	6378415.99	504.13	CL/FG/EC



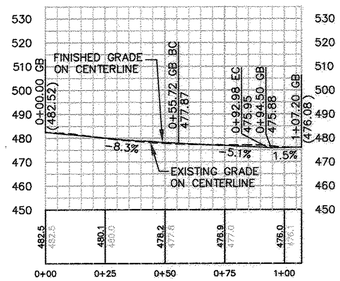
PROFILE: ACCESS ROAD TO P64-2-P65-1 PULLSITE

HORIZ. & VERT. SCALE: 1" = 30'

EARTH QUANTITIES:
CUT: 23 CY
FILL: 20 CY
NET: 3 CY

DISTURBED AREA:
ROAD: 4,715 SF
LENGTH OF ACCESS ROAD: 107 LF

CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA
C1	49.14'	37.26'	43°26'28"
L1		55.72'	N27°39'14"E
L2		14.22'	N14°34'41"W



PROFILE: ACCESS ROAD TO P57, P59 & P62

HORIZ. & VERT. SCALE: 1" = 30'

ACCESS TO P57, P59 & P62-1 (PERMIT 5-4)

SCALE: 1"=30'

FLAGGER REQUIRED TO ENTER AND EXIT-DUE TO BLIND CURVES

QUANTITIES:
4 AGGREGATE BASE: 4520 SF

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
14	1899234.53	6371966.74	(484.25)	EG
15	1899232.86	6371965.64	(484.27)	EG
16	1899173.21	6372053.44	(482.52)	CL/EG
17	1899256.03	6372072.62	476.31	FG
18	1899230.01	6372061.25	477.16	FG
19	1899142.26	6372100.61	(482.37)	EG
20	1899187.36	6372129.17		RP
21	1899190.03	6372086.99	479.68	FG
22	1899215.12	6372097.37	478.32	FG
23	1899260.94	6372097.44	475.57	EG
24	1899275.66	6372093.14	(474.63)	EG
25	1899269.21	6372071.06	(475.93)	EG
26	1899245.60	6372024.41		RP
27	1899213.33	6372000.79	484.35	FG
28	1899272.25	6372081.45	(476.08)	CL/EG
29	1899223.40	6372079.51	477.87	CL/FG/BC
30	1899258.49	6372085.03	475.95	CL/FG/EC

CONSTRUCTION NOTE:

1. CONSTRUCT 3" ASPHALT CONCRETE OVER 8" CLASS II AGGREGATE BASE
3. SAWCUT AND JOIN EXISTING PAVEMENT
4. CONSTRUCT 8" CLASS II AGGREGATE BASE ROAD ENTRANCE, DETAILS ON SHEET 2.
6. PROVIDE CONSTRUCTION TRAFFIC CONTROL AS APPROPRIATE TA-6, TA-10 OR TA-11 RESTORE TO TWO LANE OPERATION AT NIGHT WITH TA-1,TA-3 OR TA-6 AT NIGHT AS APPROPRIATE PER DETAIL ON SHEET 3
8. CONSTRUCT FENCE AND/OR GATE PER SDG&E.

01 INSPECTIONS
TO REQUEST AN INSPECTION, CALL PRIVATE DEVELOPMENT CONSTRUCTION INSPECTION DURING NORMAL BUSINESS HOURS AT (858) 694-3165 AT LEAST 24 HOURS BEFORE START AND FINISH OF WORK. WHEN CALLING FOR AN INSPECTION, REFER TO THE COMPUTER GENERATED TRAFFIC PERMIT NUMBER AND THE JOB SITE ADDRESS OF YOUR SITE. IN MOST CASES, CONSTRUCTION INSPECTION REQUIRES ONE (1) WORKING DAY NOTICE FOR INSPECTIONS. WE MAY NOT BE ABLE TO PROVIDE NEXT DAY INSPECTIONS IN SOME OF THE MORE REMOTE AREAS OF THE COUNTY OF SAN DIEGO. PLEASE VERIFY WITH THE PERSON TAKING THE INSPECTION REQUEST WHAT DAY THE INSPECTOR WILL BE OUT TO THE SITE.

01 WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS FOR THE SDG&E SUNRISE POWERLINK DRIVEWAY IMPROVEMENTS (ACCESS FROM EL MONTE ROAD) ON APN 390-060-22 AND APN 393-011-19, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

Kenneth J. Brazell — 7-02-10
FOR DIRECTOR OF PUBLIC WORKS — DATE

01

LEGAL DESCRIPTION	LEGAL DESCRIPTION
ASSESSORS PARCEL NO. 390-060-22	ASSESSORS PARCEL NO. 393-011-19
RECORD PLAN	RECORD PLAN
NAME:	NAME:
R.C.E.	R.C.E.
DATE:	DATE:

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH C 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

NAME: STEPHEN K. SMITH
PHONE NO. (858)451-6100
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127

PERMITS
REZONE PERMIT NO.
SPECIAL USE PERMIT NO.
GRADING PERMIT NO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK
NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88
NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' DATUM: NAVD 88
NAME:
LOCATION:
DESCRIPTION:
ELEVATION: DATUM:

PRIVATE CONTRACT

SHEET 5	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	7 SHEETS

IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK

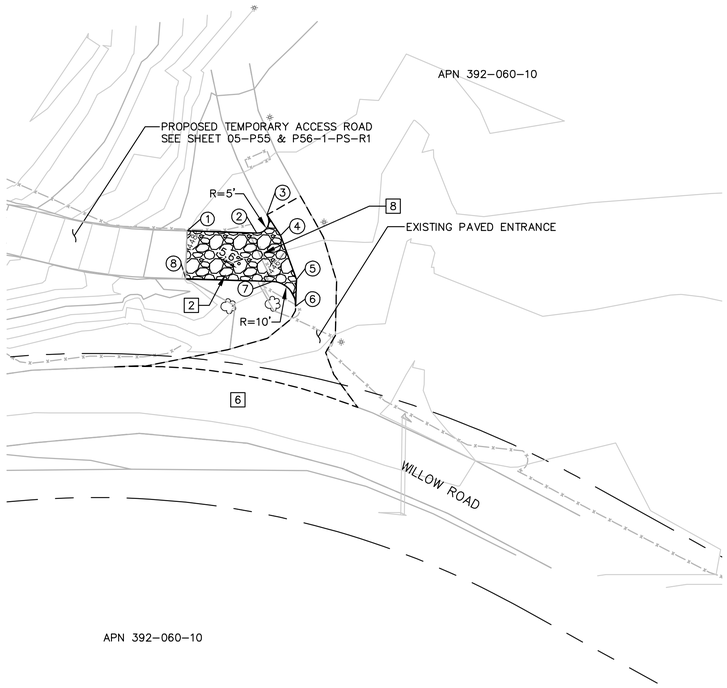
ACCESS ROAD IMPROVEMENTS ON EL MONTE ROAD PERMIT 05-3 & 05-4

ENGINEER OF WORK: STEPHEN K. SMITH R.C.E. 29708 | CHECKED BY: | APPROVAL DATE: | IMPROVEMENT PLAN NO.

SPL-05 (LINK 5) | 05-DWY-05

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

p:\16919 sdg&e spl\agency permit list\exhibits\cadd\05\plan\5-05-3&4.dwg 7/1/2010 9:37 AM



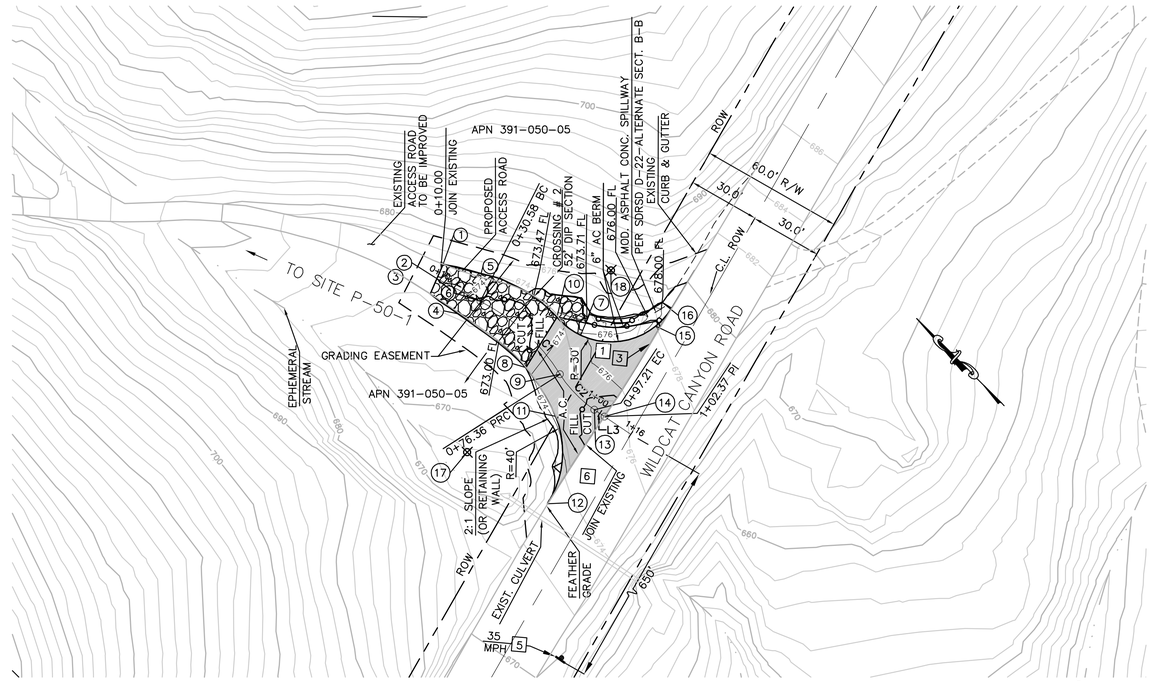
ACCESS TO P55-56-1 & PULLSITE (PERMIT 5-5)

SCALE: 1"=30'

EARTH QUANTITIES:
CUT: 0.6 CY
FILL: 0.9 CY
NET: 0.3 CY

DISTURBED AREA:
ROAD: 909 SF
LENGTH OF ACCESS ROAD: 45 LF

QUANTITIES:
2 STABALIZED ROCK: 909 SF



PLAN: ACCESS TO P48-2 & P49-1 PULLSITE (PERMIT 5-7)

SCALE: 1"=30'

FLAGGER REQUIRED TO ENTER AND EXIT-SPL CONST. & OPERATIONS

EARTH QUANTITIES:
CUT: 10 CY
FILL: 87 CY
NET: 77 CY

DIP SECTION EXPORT: 88 CY

DISTURBED AREA:
ROAD: 3,380 SF
LENGTH OF ACCESS ROAD: 92 LF

QUANTITIES:
1 PAVEMENT SECTION: 1577 SF
3 SAWCUT: 100 LF
5 SIGN: 1 EA
6 TRAFFIC CONTROL: LUMP SUM
7 AC BERM: 123 LF
AC SPILLWAY: 149 SF
DIP SECTION: 1299 SF

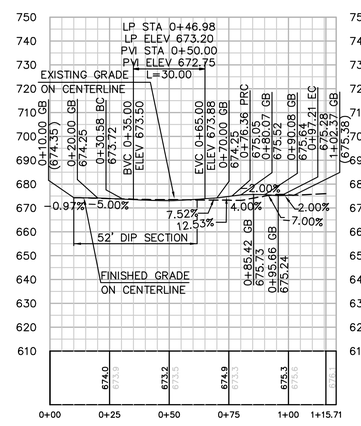
CENTERLINE DATA			
NUMBER	RADIUS	LENGTH	BEARING/DELTA ANGLE
L1		20.58	S17°34'24"E
C1	85.00	45.78	30°51'35"
C2	50.00	20.85	23°53'25"
L3		5.16	S10°50'17"E

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1901577.87	6361852.66	(674.04)	EG
2	1901575.45	6361846.46	(674.35)	EG
3	1901572.94	6361840.03	(674.20)	EG
4	1901558.04	6361842.85	673.80	FG
5	1901563.80	6361861.04	674.18	FG
6	1901555.83	6361852.67	673.72	CL/FG
7	1901518.28	6361877.25	674.19	FG
8	1901522.71	6361846.41	673.68	FG
9	1901510.64	6361854.55	675.05	CL/FG
10	1901528.38	6361870.54	673.75	FG
11	1901499.27	6361840.85	674.81	FG
12	1901476.02	6361812.42	(673.31)	EG
13	1901489.95	6361854.15	675.28	CL/EG/FG
14	1901484.88	6361855.12	675.38	CL/EG
15	1901496.42	6361897.14	(678.00)	EG
16	1901501.45	6361906.14	(679.11)	EG
17	1901515.11	6361803.93		RP
18	1901526.23	6361900.46		RP

CONSTRUCTION NOTE:

1. CONSTRUCT 4" ASPHALT CONCRETE OVER 10" CLASS II AGGREGATE BASE
2. CONSTRUCT STABILIZED CONSTRUCTION APPROACH AT CONSTRUCTION ENTRANCE PER DETAILS ON SHEET 2.
3. SAWCUT AND JOIN EXISTING PAVEMENT
4. CONSTRUCT 8" CLASS II AGGREGATE BASE ROAD ENTRANCE, DETAILS ON SHEET 2.
5. INSTALL SIGN W11-10 (TRUCK) WITH W13-IP (XX MPH).
6. PROVIDE CONSTRUCTION TRAFFIC CONTROL AS APPROPRIATE TA-6, TA-10 OR TA-11 RESTORE TO TWO LANE OPERATION AT NIGHT WITH TA-1,TA-3 OR TA-6 AT NIGHT AS APPROPRIATE PER DETAIL ON SHEET 3
7. CONSTRUCT 6" AC BERM PER COUNTY STD G-5, TYPE A.
8. CONSTRUCT FENCE AND/OR GATE PER SDG&E.
9. CONSTRUCT 2" AC OVERLAY
10. CONSTRUCT CULVERT. (SIZE TO MATCH EXISTING)

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1898020.64	6363471.87	448.20	FG
2	1898019.73	6363501.06	446.75	FG
3	1898027.45	6363505.41	(446.91)	EG
4	1898018.73	6363511.08	(446.35)	EG
5	1898000.29	6363517.74	(445.61)	EG
6	1897989.21	6363517.39	(445.28)	EG
7	1897999.51	6363507.71	445.95	FG
8	1898000.65	6363471.25	447.80	FG



PROFILE: ACCESS TO P49-1 PULLSITE (PERMIT 5-7)

SCALE: 1"=30'

INSPECTIONS
TO REQUEST AN INSPECTION, CALL PRIVATE DEVELOPMENT CONSTRUCTION INSPECTION DURING NORMAL BUSINESS HOURS AT (858) 694-3165 AT LEAST 24 HOURS BEFORE START AND FINISH OF WORK. WHEN CALLING FOR AN INSPECTION, REFER TO THE COMPUTER GENERATED TRAFFIC PERMIT NUMBER AND THE JOB SITE ADDRESS OF YOUR SITE. IN MOST CASES, CONSTRUCTION INSPECTION REQUIRES ONE (1) WORKING DAY NOTICE FOR INSPECTIONS. WE MAY NOT BE ABLE TO PROVIDE NEXT DAY INSPECTIONS IN SOME OF THE MORE REMOTE AREAS OF THE COUNTY OF SAN DIEGO. PLEASE VERIFY WITH THE PERSON TAKING THE INSPECTION REQUEST WHAT DAY THE INSPECTOR WILL BE OUT TO THE SITE.

WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS FOR THE SDG&E SUNRISE POWERLINK DRIVEWAY IMPROVEMENTS (ACCESS FROM WILLOW ROAD AND WILDCAT CANYON ROAD) ON APN 392-060-10 AND APN 391-050-05, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

_____
FOR DIRECTOR OF PUBLIC WORKS DATE

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com

LEGAL DESCRIPTION
ASSESSORS PARCEL NO. 392-060-10

RECORD PLAN
NAME:
R.C.E.
DATE:

LEGAL DESCRIPTION
ASSESSORS PARCEL NO. 391-050-05

RECORD PLAN
NAME:
R.C.E.
DATE:

ENGINEER OF WORK
REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH No. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA
NAME: STEPHEN K. SMITH
PHONE NO. (858)451-6100
ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA 92127

PERMITS
REZONE PERMIT NO.
SPECIAL USE PERMIT NO.
GRADING PERMIT NO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK
NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88

NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' DATUM: NAVD 88

NAME:
LOCATION:
DESCRIPTION:
ELEVATION: DATUM:

PRIVATE CONTRACT

SHEET	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	7 SHEETS
6		

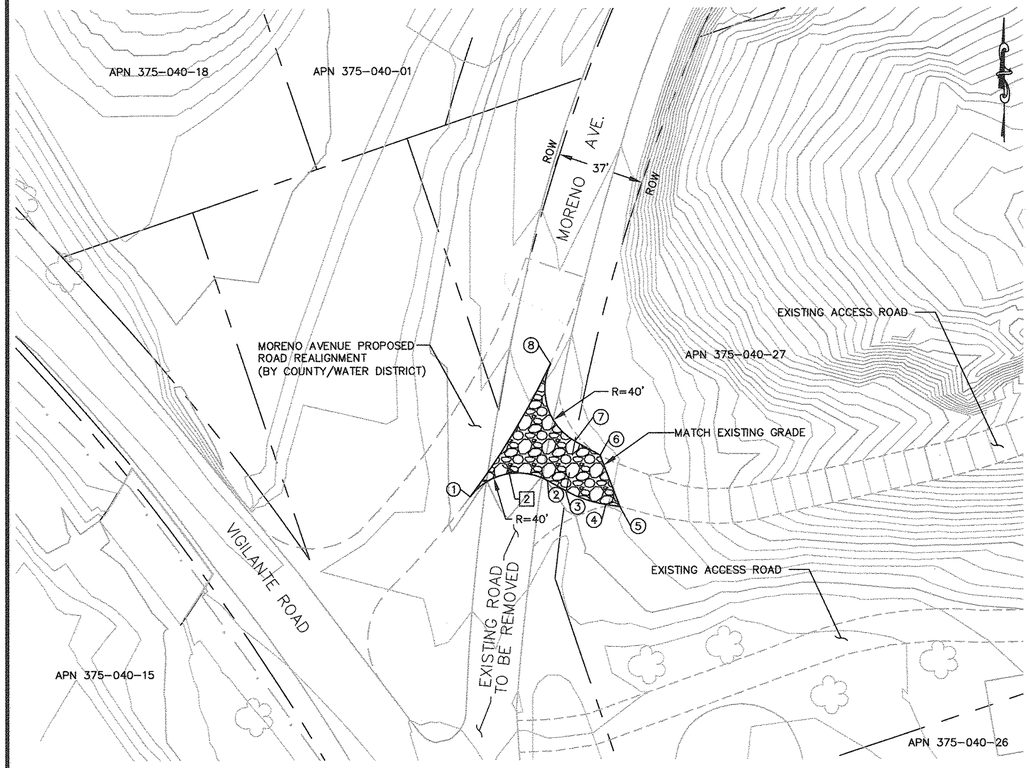
IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK

ACCESS ROAD IMPROVEMENTS ON WILLOW AND WILD CAT CANYON PERMIT 05-5 & 05-7

ENGINEER OF WORK STEPHEN K. SMITH
R.C.E. 29708
CHECKED BY:
APPROVAL DATE:
IMPROVEMENT PLAN NO.

SPL-05 (LINK 5)
05-DWY-06

p:\16919 sdg&e spl\agency permit list\exhibits\cadd\05\plan\6-05-5&7.dwg 7/1/2010 9:42 AM



ACCESS ROAD TO P44-1 (PERMIT 5-8)

SCALE: 1"=30'

NOTE: SPL ENTRANCE TO BE CONSTRUCTED AFTER MORENO AVENUE IS RELOCATED.

QUANTITIES:

[2] STABILIZED ROCK: 1136 SF

CONSTRUCTION NOTE:

[2] CONSTRUCT STABILIZED CONSTRUCTION APPROACH AT CONSTRUCTION ENTRANCE PER DETAILS ON SHEET 2.

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	1908376.47	6352653.81		BC/EG
2	1908383.25	6352686.12		EC/EG
3	1908378.93	6352693.78		BC/EG
4	1908373.06	6352710.65		EC/EG
5	1908372.13	6352716.57		EG
6	1908393.74	6352708.21		EG
7	1908399.68	6352697.70		EC/EG
8	1908432.16	6352687.41		BC/EG

INSPECTIONS

TO REQUEST AN INSPECTION, CALL PRIVATE DEVELOPMENT CONSTRUCTION INSPECTION DURING NORMAL BUSINESS HOURS AT (858) 694-3165 AT LEAST 24 HOURS BEFORE START AND FINISH OF WORK. WHEN CALLING FOR AN INSPECTION, REFER TO THE COMPUTER GENERATED TRAFFIC PERMIT NUMBER AND THE JOB SITE ADDRESS OF YOUR SITE. IN MOST CASES, CONSTRUCTION INSPECTION REQUIRES ONE (1) WORKING DAY NOTICE FOR INSPECTIONS. WE MAY NOT BE ABLE TO PROVIDE NEXT DAY INSPECTIONS IN SOME OF THE MORE REMOTE AREAS OF THE COUNTY OF SAN DIEGO. PLEASE VERIFY WITH THE PERSON TAKING THE INSPECTION REQUEST WHAT DAY THE INSPECTOR WILL BE OUT TO THE SITE.

WITH REGARD ONLY TO THE WORK SHOWN ON THESE PLANS FOR THE SDG&E SUNRISE POWERLINK DRIVEWAY IMPROVEMENTS (ACCESS FROM MORENO AVENUE) ON APN 375-040-27, THE DEPARTMENT OF PUBLIC WORKS (DPW) FOR THE COUNTY OF SAN DIEGO ACKNOWLEDGES THAT SAN DIEGO GAS & ELECTRIC (SDG&E) HAS CONSULTED WITH DPW REGARDING THOSE LAND USE MATTERS WITHIN SCOPE OF DPW'S REVIEW AUTHORITY IN THE MANNER REQUIRED BY SECTION XIV(B) OF CALIFORNIA PUBLIC UTILITIES COMMISSION, GENERAL ORDER 131-D, DECISION 94-06-14 AS MODIFIED BY DECISION 95-08-038.

Kenneth J. Brazell 7-02-10

FOR DIRECTOR OF PUBLIC WORKS DATE

IFC SHEET REVISIONS				
REVISION NUMBER	DESCRIPTION	DATE	DRAFTED BY	APPROVED BY
01	MEET & CONFER/INSPECTION NOTES, TITLE BLOCK	8/19/2010	JB	MB

01

LEGAL DESCRIPTION

ASSESSORS PARCEL NO. 375-040-27

RECORD PLAN

NAME:

R.C.E.

DATE:

LEGAL DESCRIPTION

ASSESSORS PARCEL NO.

RECORD PLAN

NAME:

R.C.E.

DATE:

ENGINEER OF WORK

REGISTERED PROFESSIONAL ENGINEER STEPHEN K. SMITH No. 29708 Exp. 3-31-11 CIVIL STATE OF CALIFORNIA

NAME: STEPHEN K. SMITH

PHONE NO. (858)451-6100

ADDRESS: 11590 W. BERNARDO CT. SUITE 100 SAN DIEGO, CA. 92127

PERMITS

REZONE PERMIT NO.

SPECIAL USE PERMIT NO.

GRADING PERMIT NO.

COUNTY APPROVED CHANGES

NO.	DESCRIPTION	APPROVED BY	DATE

BENCH MARK

NAME: GPS 32
LOCATION: N 1959223.231 E 6351466.260
DESCRIPTION: SURVEY DISK
ELEVATION: 1373.160' DATUM: NAVD 88

NAME: 941T
LOCATION: N 1896129.627 E 6253306.866
DESCRIPTION: NGS MONUMENT
ELEVATION: 30.522' DATUM: NAVD 88

NAME:
LOCATION:
DESCRIPTION:
ELEVATION: DATUM:

PRIVATE CONTRACT

SHEET 7	COUNTY OF SAN DIEGO DEPARTMENT OF PUBLIC WORKS	7 SHEETS

IMPROVEMENT PLAN FOR: SDG&E SUNRISE POWERLINK

ACCESS ROAD IMPROVEMENTS ON MORENA ROAD PERMIT 05-8

ENGINEER OF WORK: STEPHEN K. SMITH R.C.E. 29708 | CHECKED BY: | APPROVAL DATE: | IMPROVEMENT PLAN NO.

SPL-05 (LINK 5) | 05-DWY-07

Bureau Veritas North America
11590 West Bernardo Court Suite 100
San Diego, CA 92127-1624
Tel: (858) 451-6100 Fax: (858) 451-2846
www.us.bureauveritas.com