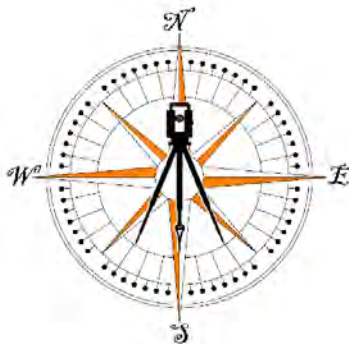


Survey Program Solutions



SPS Survey Feature Code Book

Print Date: #####
Rev. 0

LEGEND

BLACK POINT CODE

RED SYMBOL CODE

BLUE LINESTRING CODE

PURPLE SYMBOL AND LINESTRING CODE

GREEN LINESTRING AND BREAKLINE CODE

Note: All feature codes are designed to have a maximum number of 25 characters total between the codes, figure commands and notes. The first code entered will determine the layer placement and/or symbol of the point. Only one symbol can be shown per point and it is recommended not to combine symbol and line string codes that have not already been combined (Purple Text).

BY CODE	Page 3
BY DESCRIPTION	Page 15
BY GROUP	Page 27
FIGURE COMMANDS	Page 39

Alphabetical By Code

Code	Description
------	-------------

A

AC*	ASPHALT SPOT SHOT
-----	-------------------

AD*	ASPHALT DIKE/CURB
-----	-------------------

ATM*	ATM
------	-----

B

BBQ*	BBQ
------	-----

BCD*	BARRICADE
------	-----------

BFC*	BOTTOM FACE OF CURB
------	---------------------

BGAW*	BUILDING AWNING
-------	-----------------

BGDK*	BUILDING DECK
-------	---------------

BGEN*	BUILDING ENTRY (W/ADDRESS)
-------	----------------------------

BGFF*	BUILDING FINISH FLOOR
-------	-----------------------

BGHR*	BUILDING HANDRAIL
-------	-------------------

BGLC*	BUILDING LINE/CORNER
-------	----------------------

BGOH*	BUILDING OVERHEAD
-------	-------------------

BGPH*	BUILDING PORCH
-------	----------------

BGRD*	BUILDING ROOF DRAIN
-------	---------------------

BGVN*	BUILDING VENTS
-------	----------------

BH*	BENCH SEAT
-----	------------

BK*	BIKE RACK
-----	-----------

BL*	BOLLARD
-----	---------

BM*	BENCHMARK
-----	-----------

BOD*	BOTTOM OF DITCH
------	-----------------

BRAB*	BRIDGE ABUTMENT
-------	-----------------

BRCJ*	BRIDGE CONSTRUCTION JOINT
-------	---------------------------

BRDK*	BRIDGE DECK
-------	-------------

BRGR*	BRIDGE GUARDRAIL
-------	------------------

BS*	BACKSIGHT CHECK
-----	-----------------

BWL*	BARRIER WALL
------	--------------

Alphabetical By Description

Code Description

A

AD*	ASPHALT DIKE/CURB
AC*	ASPHALT SPOT SHOT
ATM*	ATM

B

BS*	BACKSIGHT CHECK
BCD*	BARRICADE
BWL*	BARRIER WALL
BBQ*	BBQ
TBM*	BENCH MARK - TEMPORARY
BH*	BENCH SEAT
BM*	BENCHMARK
BK*	BIKE RACK
BL*	BOLLARD
BFC*	BOTTOM FACE OF CURB
BOD*	BOTTOM OF DITCH
BRAB*	BRIDGE ABUTMENT
BRCJ*	BRIDGE CONSTRUCTION JOINT
BRDK*	BRIDGE DECK
BRGR*	BRIDGE GUARDRAIL
BGAW*	BUILDING AWNING
BGDK*	BUILDING DECK
BGEN*	BUILDING ENTRY (W/ADDRESS)
BGFF*	BUILDING FINISH FLOOR
BGHR*	BUILDING HANDRAIL
BGLC*	BUILDING LINE/CORNER
BGOH*	BUILDING OVERHEAD
BGPH*	BUILDING PORCH
BGRD*	BUILDING ROOF DRAIN
BGVN*	BUILDING VENTS

Alphabetical By Group

Code	Description
------	-------------

Buildings

BGAW*	BUILDING AWNING
BGDK*	BUILDING DECK
BGEN*	BUILDING ENTRY (W/ADDRESS)
BGFF*	BUILDING FINISH FLOOR
BGHR*	BUILDING HANDRAIL
BGLC*	BUILDING LINE/CORNER
BGOH*	BUILDING OVERHEAD
BGPH*	BUILDING PORCH
BGRD*	BUILDING ROOF DRAIN
BGVN*	BUILDING VENTS

Cable TV

TVBL*	CABLE TV BOX LINE
TVBX*	CABLE TV BOX SYMBOL
TVCB*	CABLE TV CABINET SYMBOL
TVCD*	CABLE TV CONDUIT
TVCL*	CABLE TV CABINET LINE
TVGM*	CABLE TV GEOPHYSICAL MARK
TVMC*	CABLE TV MISC.
TVOH*	CABLE TV OVERHEAD
TVPF*	CABLE TV PIN FLAG
TVPM*	CABLE TV PAINT MARK
TVRI*	CABLE TV RISER
TVTH*	CABLE TV TRENCH
TVVL*	CABLE TV VAULT LINE
TVVT*	CABLE TV VAULT SYMBOL

Communication

CMAN*	COMMUNICATION ANTENNA
CMBL*	COMMUNICATION BOX LINE

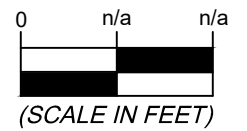
Figure Commands

Code	Command	Description
B	Begin Figure	Begin a figure with the name of the preceding feature code
C	Continue	Continue a figure with the name of the preceding feature code
E	End Figure	End a figure with the name of the preceding feature code
BC	Begin Curve	Begin tangent, non-tangent, compound or reverse curve and continue until end curve code (EC) is input
EC	End Curve	End tangent, non-tangent, compound or reverse curve
CLS	Close Figure	Closes figure by creating a single segment from the current location to the first point on the figure
/note/	Note in Code	used to enter notes within a feature code, NO SPACES AT BEGINNING OR END OF NOTE
CIR	Circles	1, 2 or 3 point circles can be collected
H or V	Horz. or Vert. Offset	Horizontal and vertical offsets can be input by H# and V#, where # is positive to the right or up and negative (-) to the left or down
OC	Point on Curve	Use 2 tangent shots before and after a curve with a point on the curve to automatically create a figure with 2 tangent lines and a curve between with calculated PC and PT points

COMPANY LOGO

COMPANY - OFFICE
ADDRESS
PHONE: FAX:

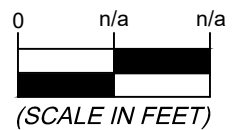
Exhibit Name
Project Name
Sheet Description
City, State
Client Name



COMPANY LOGO

COMPANY - OFFICE
ADDRESS
PHONE: FAX:

Exhibit Name
Project Name
Sheet Description
City, State
Client Name



CONTROL TABLE:

PT#	NORTHING	EASTING	ELEV.	DESC.
1	10000.00	10000.00	1000.00	CP-1



SCALE: 1" = 40'

COMPANY LOGO

COMPANY - OFFICE
ADDRESS
PHONE: FAX:

Client Name

Project Name

Sheet Description

City, State

SHEET

#####

OF # SHEETS



SCALE: 1" = 40'

CONTROL FILE: P:\Projects\XXXXXX\Survey Data\Outgoing\XXXXXX - base.job
STAKING FILE: P:\Projects\XXXXXX\Survey Data\Outgoing\XXXX-STK.csv

SHEET
1
OF # SHEETS

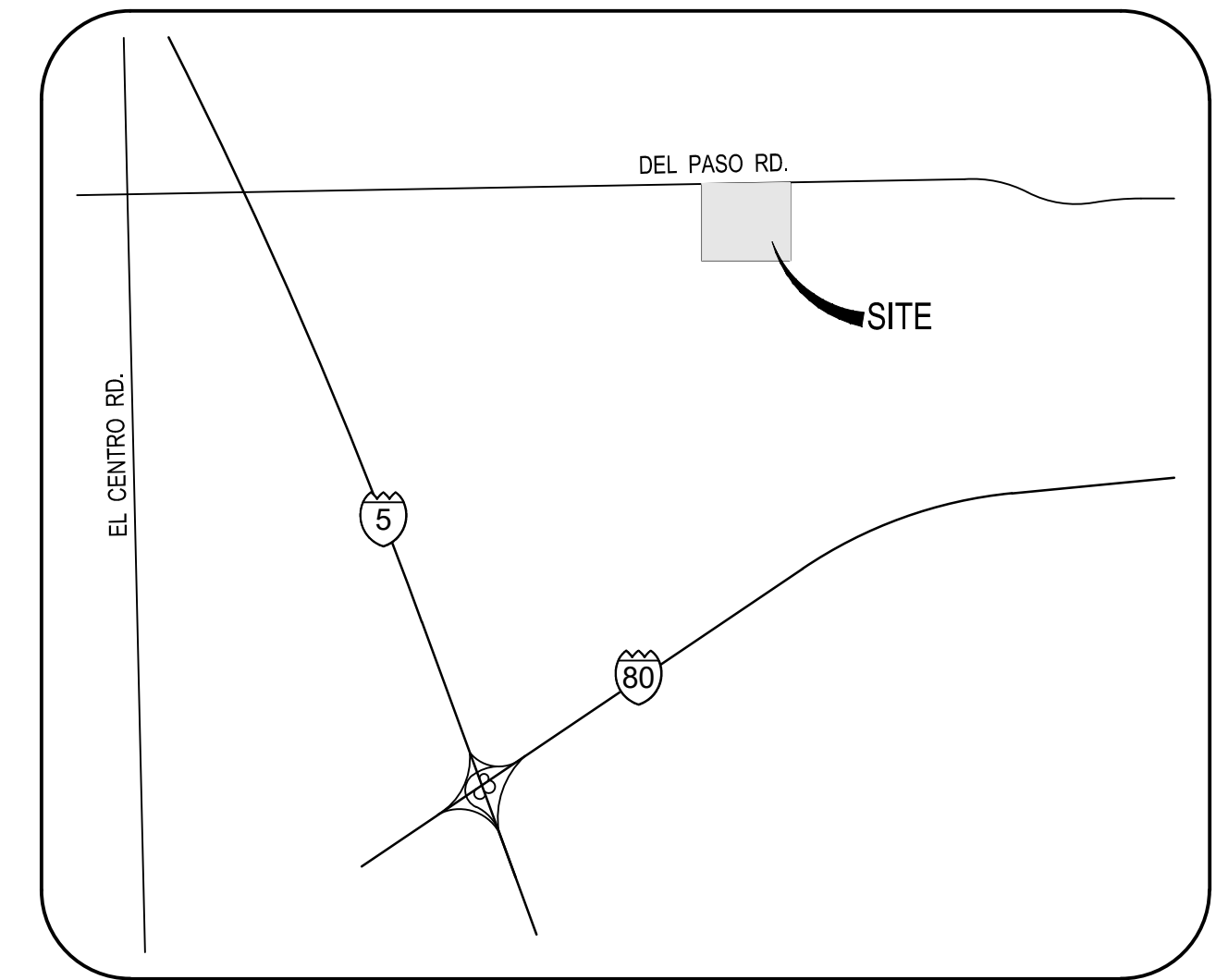
Project Name
Client Name
Sheet Description
City, State

COMPANY LOGO

COMPANY
OFFICE
ADDRESS 1
ADDRESS 2
PHONE
FAX

PROJECT NO.:
PROJECT MGR:
DRAWN BY:
DRAWINGN TAB:
CHECKED BY:
DRAWING SCALE:

Project Number?
Project Manager?
Drawn By?
Sheets & Standards - 17X22
HRZ: 1" = 00'



VICINITY MAP
NOT TO SCALE

NOTES:

1.

LEGAL DESCRIPTION (TITLE NO. _____):

xxxx

SCHEDULE "B" EXCEPTIONS (TITLE NO. _____):

TITLE REPORT PREPARED BY TITLE COMPANY, TITLE NO. _____,
EFFECTIVE DATE: _____, 20__

1.

PLEASE REFER TO DOCUMENT FOR FULL PARTICULARS ON ALL EXCEPTIONS.

INDICATES ENCUMBRANCE SHOWN HEREON.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS MAP IS IDENTICAL WITH THE CENTERLINE OF XXXXXXXX, AS SHOWN ON BOOK XXX OF MAPS, AT PAGE XX, _____ COUNTY RECORDS, THE BEARING OF WHICH IS GIVEN AS XX°XXX'X" AND WAS ESTABLISHED FROM FOUND MONUMENTS SHOWN HEREON.

OR

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM, ZONE __, NORTH AMERICAN DATUM 1983 PROJECTED TO GROUND COORDINATES, _____ DERIVED FROM "OPUS" POSITION ON MMDDYY _____ or _____ ROTATED TO "NGS" MONUMENTS _____ AND _____, THE BEARING OF WHICH LINE IS XX°XXX'X", _____ ADJUSTED TO THE XXXX.XX EPOCH AND USING THE FOLLOWING PROJECTION AND LOCAL SITE VALUES:

- PROJECTION - LAMBERT CONFORMAL CONIC
ORIGIN: 37°40'00.00000"N 122°00'00.00000"W
FALSE NORTHING: 1640416.667 FALSE EASTING: 6561666.667
- LOCAL SITE -
LAT: XX°XX'XX.XXXXX"N LON: XX°XX'XX.XXXXX"W
E HGT: XXX.XXX FT
GSF: XX FALSE OFFSET: X N, X E
- CONTROL #1 -
LAT: XX°XX'XX.XXXXX"N LON: XX°XX'XX.XXXXX"W
E HGT: XXX.XXX FT (OPUS)

FLOOD INSURANCE DATA:

FLOOD ZONE DESIGNATION ___ PER F.E.M.A. FLOOD INSURANCE RATE MAP, PANEL ___ OF ___ MAP NUMBER _____, DATED _____.

ZONE ___ - AREAS OF _____, (THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THE SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP OR THE LOCATION OF THE FLOOD ZONE BOUNDARY.)

SURVEYOR'S CERTIFICATION:

TO: CLIENT NAME, TITLE COMPANY, (name of lender, if known), (name of others as instructed by client):

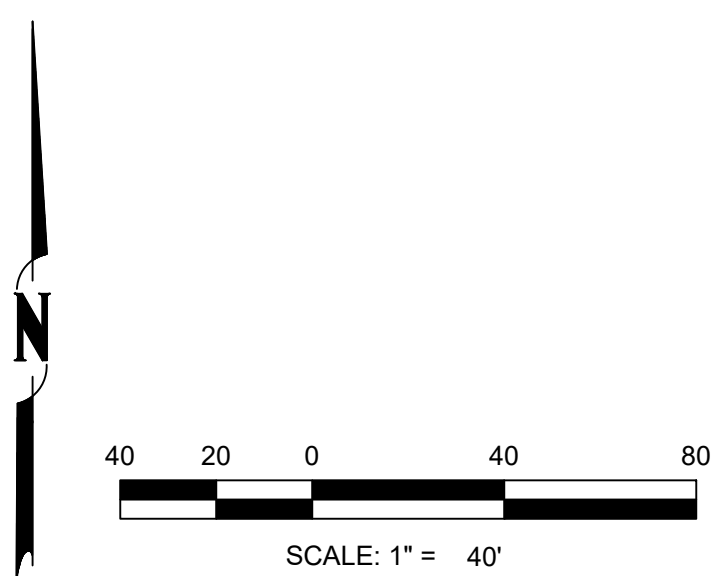
THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE ### MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS _____ OF TABLE A THEREOF.

DATE OF FIELD SURVEY: _____, 20__
DATE OF CERTIFICATION: _____, 20__

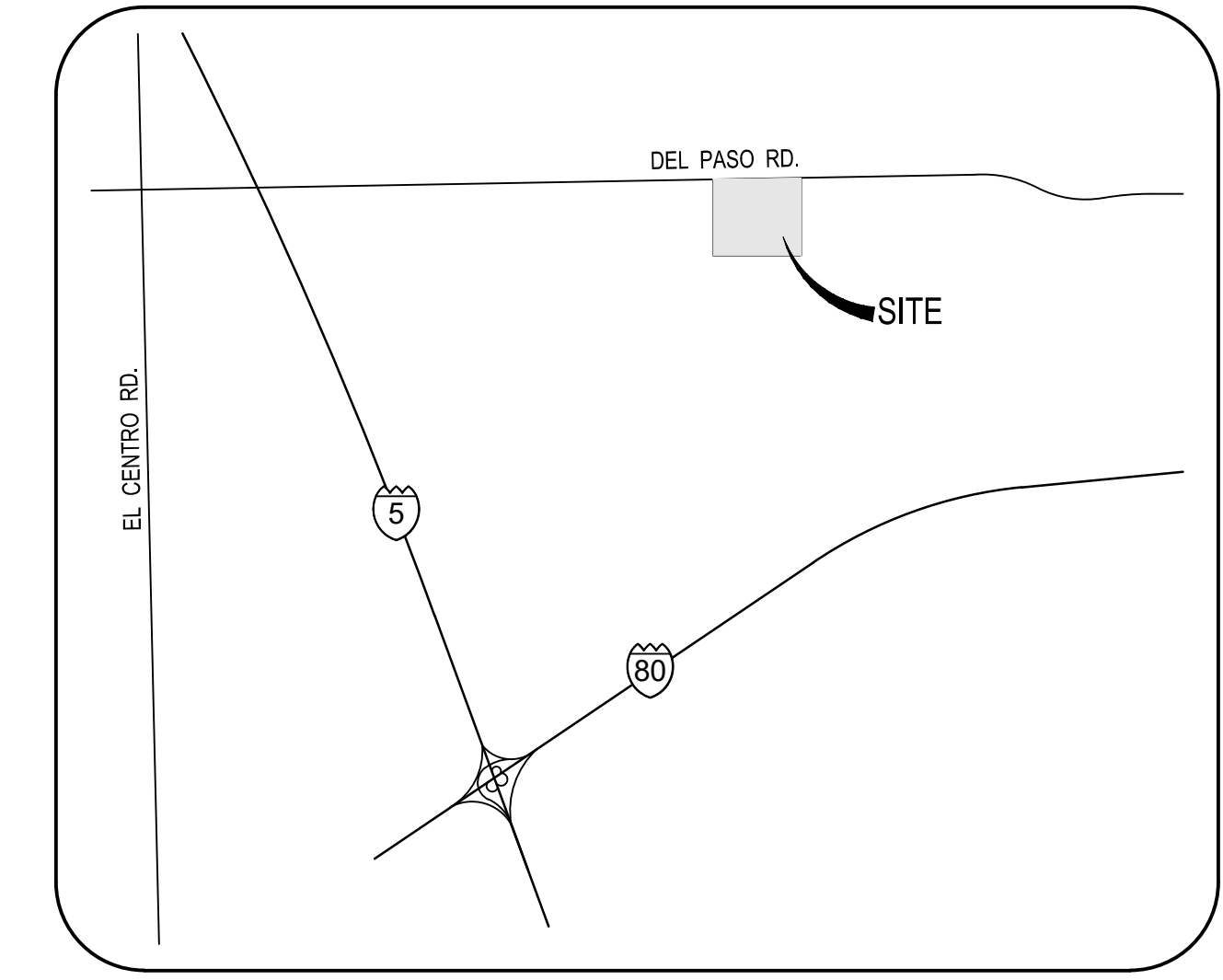
JOHN Q. SURVEYOR L.S. 1234

ABBREVIATIONS

- P.U.E. PUBLIC UTILITY EASEMENT
- BK BOOK
- PG PAGE
- PM PARCEL MAP
- RW RIGHT-OF-WAY
- A/C ASPHALT
- EP EDGE OF PAVEMENT
- IE INVERT ELEVATION



DESCRIPTION	DATE	REV	REV	REV	REV
Proj Mgr.	Prog Num.	Drawn by:	Date:	3/12/2018	
COMPANY LOGO			COMPANY	OFFICE	ADDRESS 1
Project Name			ADDRESS 2	PHONE	FAX
Client Name			Sheet Description		
SHEET	1	of #SHEETS			



VICINITY MAP
NOT TO SCALE

NOTES:

1.

LEGAL DESCRIPTION (TITLE NO. _____):

xxxx

SCHEDULE "B" EXCEPTIONS (TITLE NO. _____):

TITLE REPORT PREPARED BY TITLE COMPANY, TITLE NO. _____
EFFECTIVE DATE: _____, 20__

1.

PLEASE REFER TO DOCUMENT FOR FULL PARTICULARS ON ALL EXCEPTIONS.

Ⓢ INDICATES ENCUMBRANCE SHOWN HEREON.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS MAP IS IDENTICAL WITH THE CENTERLINE OF XXXXXXXX, AS SHOWN ON BOOK XXX OF MAPS, AT PAGE XX COUNTY RECORDS, THE BEARING OF WHICH IS GIVEN AS XX'XXX'X" AND WAS ESTABLISHED FROM FOUND MONUMENT'S SHOWN HEREON.

OR

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM, ZONE __, NORTH AMERICAN DATUM 1983 PROJECTED TO GROUND COORDINATES, — DERIVED FROM "OPUS" POSITION ON MMDDYY — or — ROTATED TO "NGS" MONUMENTS __ AND __, THE BEARING OF WHICH LINE IS XX'XXX'X", — ADJUSTED TO THE XXXX.XX EPOCH AND USING THE FOLLOWING PROJECTION AND LOCAL SITE VALUES:

- PROJECTION - LAMBERT CONFORMAL CONIC
ORIGIN: 37°40'00.0000"N 122°00'00.0000"W
FALSE NORTHING: 1640416.667 FALSE EASTING: 6561666.667
- LOCAL SITE -
LAT: XX'XXX'XXX'X"N LON: XXX'XXX'XXX'X"W
E HGT: XXX.XXX FT
GSP: XX FALSE OFFSET: X, N, X, E.
- CONTROL #1 -
LAT: XX'XXX'XXX'X"N LON: XXX'XXX'XXX'X"W
E HGT: XXXXXX FT (OPUS)

FLOOD INSURANCE DATA:

FLOOD ZONE DESIGNATION __ PER F.E.M.A. FLOOD INSURANCE RATE MAP, PANEL __ OF __, MAP NUMBER __ DATED __

ZONE __ - AREAS OF __ (THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THE SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP OR THE LOCATION OF THE FLOOD ZONE BOUNDARY.)

SURVEYOR'S CERTIFICATION:

TO: CLIENT NAME, TITLE COMPANY, (name of lender, if known), (name of others as instructed by client):

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE ### MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS __ OF TABLE A THEREOF.

DATE OF FIELD SURVEY: __, 20__

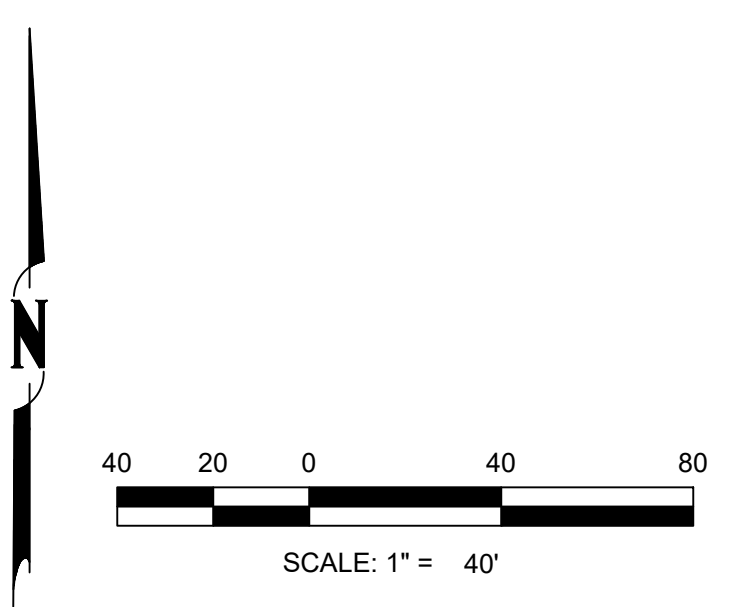
DATE OF CERTIFICATION: __, 20__

JOHN Q. SURVEYOR

L.S. 1234

ABBREVIATIONS

- P.U.E. PUBLIC UTILITY EASEMENT
- BK BOOK
- PS PAGE
- PM PARCEL MAP
- R/W RIGHT-OF-WAY
- A/C ASPHALT
- EP EDGE OF PAVEMENT
- IE INVERT ELEVATION



DESCRIPTION

DATE

REV

Proj. No.

Proj. Num.

Drawn by:

Date:

COMPANY LOGO

COMPANY
ADDRESS 1
ADDRESS 2
PHONE
FAX

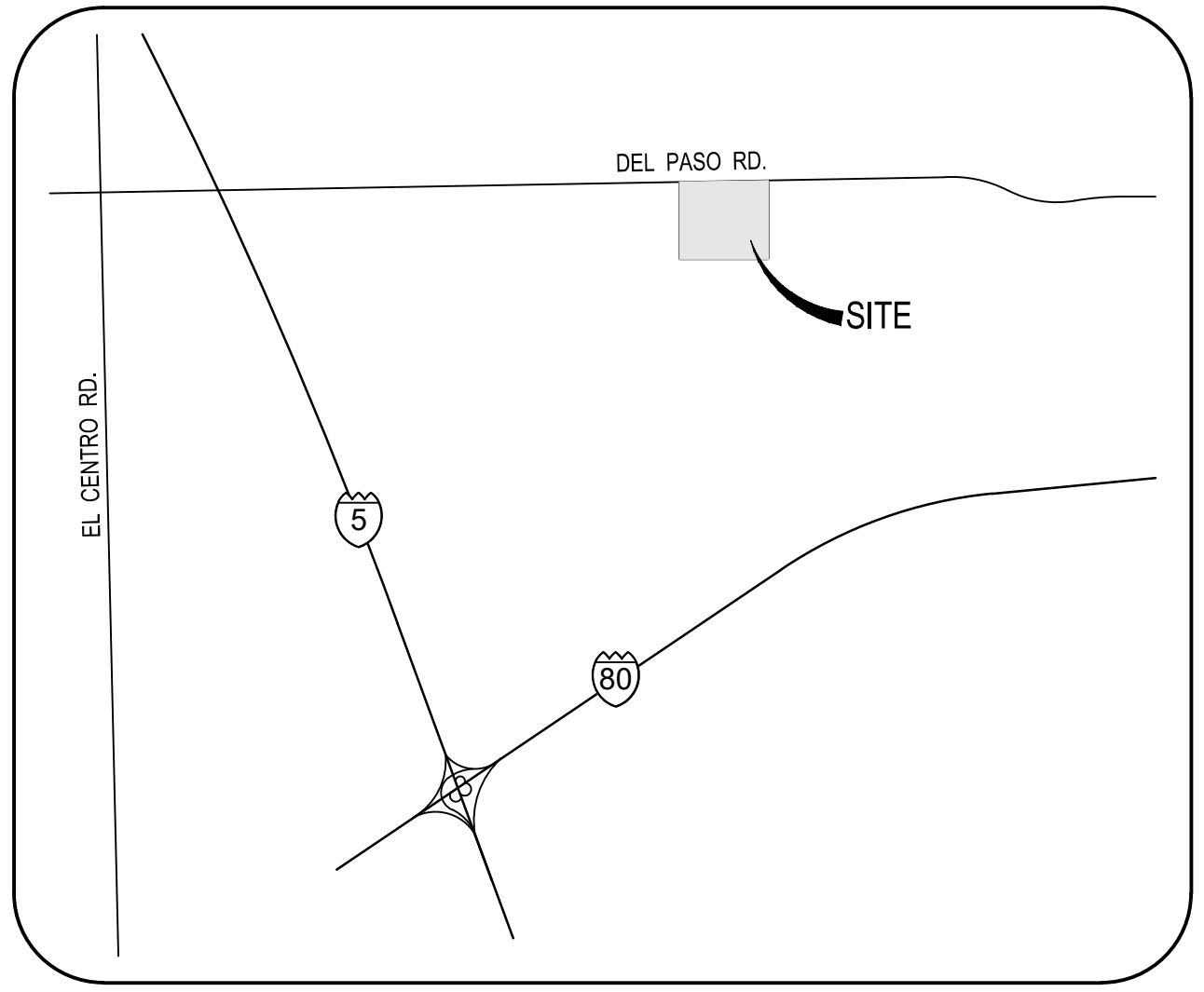
Project Name

Client Name

Sheet Description

SHEET
1

OF # SHEETS



VICINITY MAP
NOT TO SCALE

NOTES:

1.

LEGAL DESCRIPTION (TITLE NO. _____):

xxxx

SCHEDULE "B" EXCEPTIONS (TITLE NO. _____):

TITLE REPORT PREPARED BY TITLE COMPANY, TITLE NO. _____,
EFFECTIVE DATE: _____, 20__

1.

PLEASE REFER TO DOCUMENT FOR FULL PARTICULARS ON ALL EXCEPTIONS.

INDICATES ENCUMBRANCE SHOWN HEREON.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS MAP IS IDENTICAL WITH THE CENTERLINE OF XXXXXXXX, AS SHOWN ON BOOK XXX OF MAPS, AT PAGE XX, _____ COUNTY RECORDS, THE BEARING OF WHICH IS GIVEN AS XXX'XXX" AND WAS ESTABLISHED FROM FOUND MONUMENTS SHOWN HEREON.

OR

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM, ZONE _____, NORTH AMERICAN DATUM 1983 PROJECTED TO GROUND COORDINATES, — DERIVED FROM "OPUS" POSITION ON MM/00'YY — or — ROTATED TO "NGS" MONUMENTS — AND _____ THE BEARING OF WHICH IS GIVEN AS XXX'XXX" — ADJUSTED TO THE XXXX.XX EPOCH AND USING THE FOLLOWING PROJECTION AND LOCAL SITE VALUES:

- PROJECTION - LAMBERT CONFORMAL CONIC
ORIGIN: 37°40'00.0000"N 122°00'00.0000"W
FALSE NORTHING: 1649416.667 FALSE EASTING: 6561666.667
- LOCAL SITE -
LAT: XXX'XXX.XXXXX"N LON: XXX'XXX.XXXXX"W
E HGT: XXX.XXX FT
GSF: XX FALSE OFFSET: X N, X E
- CONTROL #1 -
LAT: XXX'XXX.XXXXX"N LON: XXX'XXX.XXXXX"W
E HGT: XXX.XXX FT (OPUS)

FLOOD INSURANCE DATA:

FLOOD ZONE DESIGNATION _____ PER F.E.M.A. FLOOD INSURANCE RATE MAP, PANEL _____ OF _____ MAP NUMBER _____ DATED _____

ZONE _____ AREAS OF _____ (THE ABOVE STATEMENT IS FOR INFORMATION ONLY AND THE SURVEYOR ASSUMES NO LIABILITY FOR THE CORRECTNESS OF THE CITED MAP OR THE LOCATION OF THE FLOOD ZONE BOUNDARY.)

SURVEYOR'S CERTIFICATION:

TO CLIENT NAME, TITLE COMPANY, (name of lender, if known), (name of others as instructed by client):

THIS IS TO CERTIFY THAT THIS MAP OR PLAT AND THE SURVEY ON WHICH IT IS BASED WERE MADE IN ACCORDANCE WITH THE ### MINIMUM STANDARD DETAIL REQUIREMENTS FOR ALTA/ACSM LAND TITLE SURVEYS, JOINTLY ESTABLISHED AND ADOPTED BY ALTA AND NSPS, AND INCLUDES ITEMS _____ OF TABLE A THEREOF.

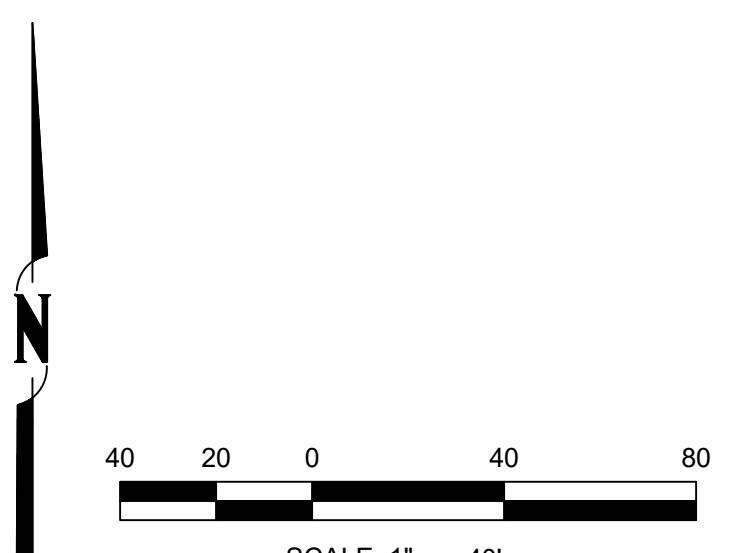
DATE OF FIELD SURVEY: _____, 20__

DATE OF CERTIFICATION: _____, 20__

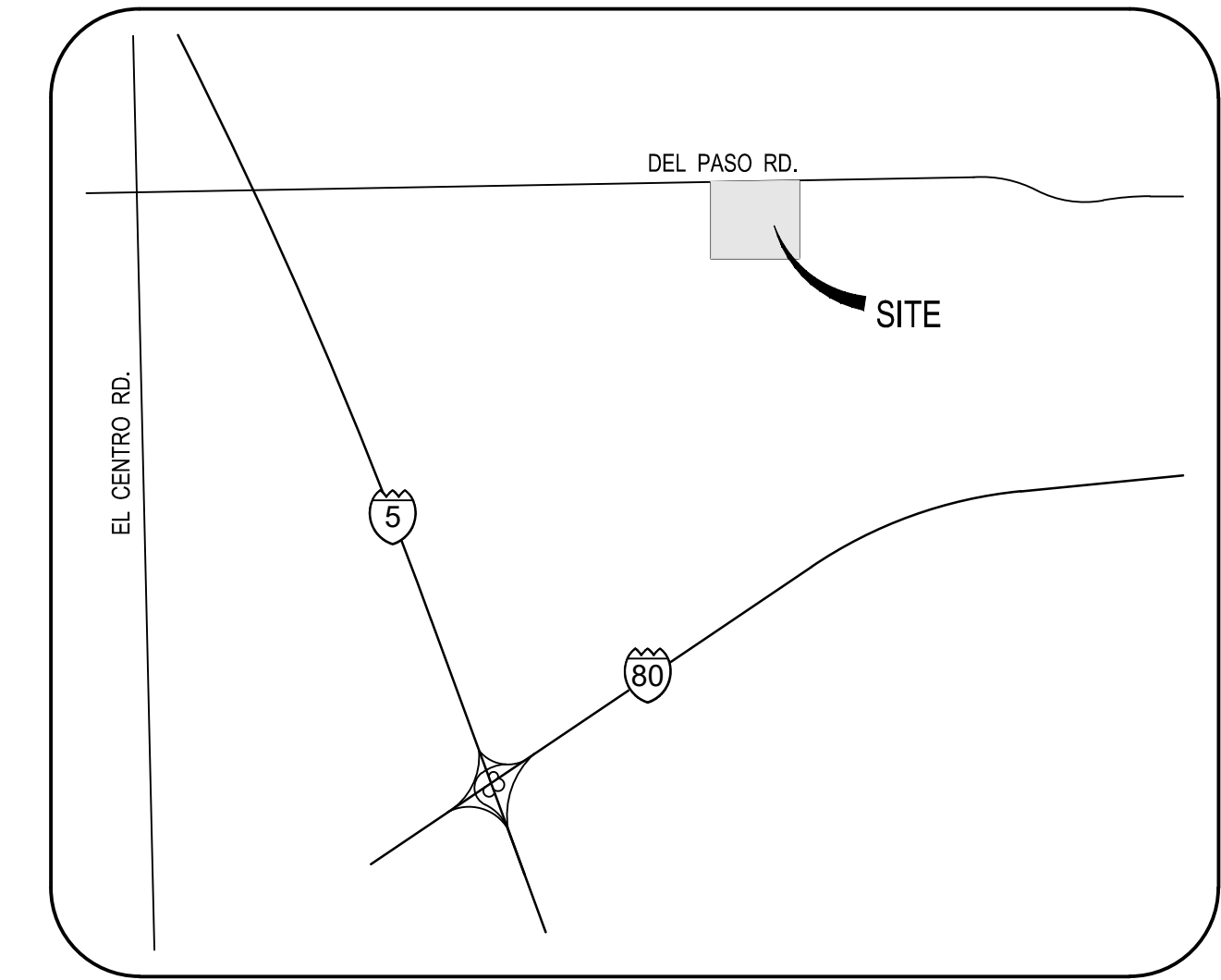
JOHN G. SURVEYOR L.S. 1254

ABBREVIATIONS

- PU/E PUBLIC UTILITY EASEMENT
- BOOK
- PG PAGE
- PM PARCEL MAP
- RW RIGHT-OF-WAY
- AC ASPHALT
- EP EDGE OF PAVEMENT
- IE INVERT ELEVATION



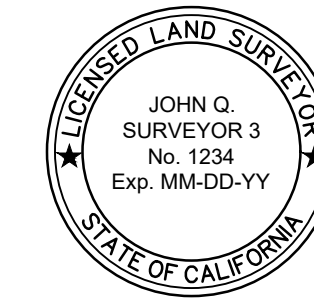
PROJ. NO.	DATE
REF. NO.	
DESCRIPTION	
Proj. No.	Date: 3/12/2018
Drawn by:	
COMPANY LOGO	
<small>COMPANY ADDRESS PHONE FAX</small>	
Project Name	
Client Name	
Sheet Description	
SHEET	1
OF # SHEETS	



VICINITY MAP
NOT TO SCALE

SURVEYOR'S STATEMENT:

THIS TOPOGRAPHIC MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY COMPLETED ON ____ 20__.



DATED: _____

JOHN Q. SURVEYOR LS 1234
EXPIRES: MM/DD/YY
COMPANY

SURVEY NOTES:

- THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- ELEVATION SHOWN HEREON WERE DERIVED FROM G.P.S. OBSERVATION WITH A RELATIVE ACCURACY OF ±0.1'.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS MAP IS IDENTICAL WITH THE CENTERLINE OF XXXXXXXX, AS SHOWN ON BOOK XXX OF MAPS AT PAGE XX, COUNTY RECORDS, THE BEARING OF WHICH IS GIVEN AS XX°XXX' AND WAS ESTABLISHED FROM FOUND MONUMENTS SHOWN HEREON.

OR

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM, ZONE __, NORTH AMERICAN DATUM 1983 PROJECTED TO GROUND COORDINATES, — DERIVED FROM "OPUS" POSITION ON MM/DD/YY — or — ROTATED TO "NS" MONUMENTS — AND — THE BEARING OF WHICH LINE IS XX°XXX', — ADJUSTED TO THE XXXX XX EPOCH AND USING THE FOLLOWING PROJECTION AND LOCAL SITE VALUES:

- PROJECTION - LAMBERT CONFORMAL CONIC
ORIGIN: 37°40'00.00000"N 122°00'00.00000"W
FALSE NORTHING: 1640416.667 FALSE EASTING: 6561666.667
- LOCAL SITE -
LAT: XX°XXX.XXXXX"N LON: XXX°XXX.XXXXX"W
E HGT: XXX.XXX FT
GSF: XX FALSE OFFSET: X N, X E.
- CONTROL #1 -
LAT: XX°XXX.XXXXX"N LON: XXX°XXX.XXXXX"W
E HGT: XXX.XXX FT (OPUS)

BENCHMARK:

CITY OF _____ BENCHMARK STAMPED: _____

MONUMENT DESCRIPTION

ELEVATION: _____

CONTROL TABLE:

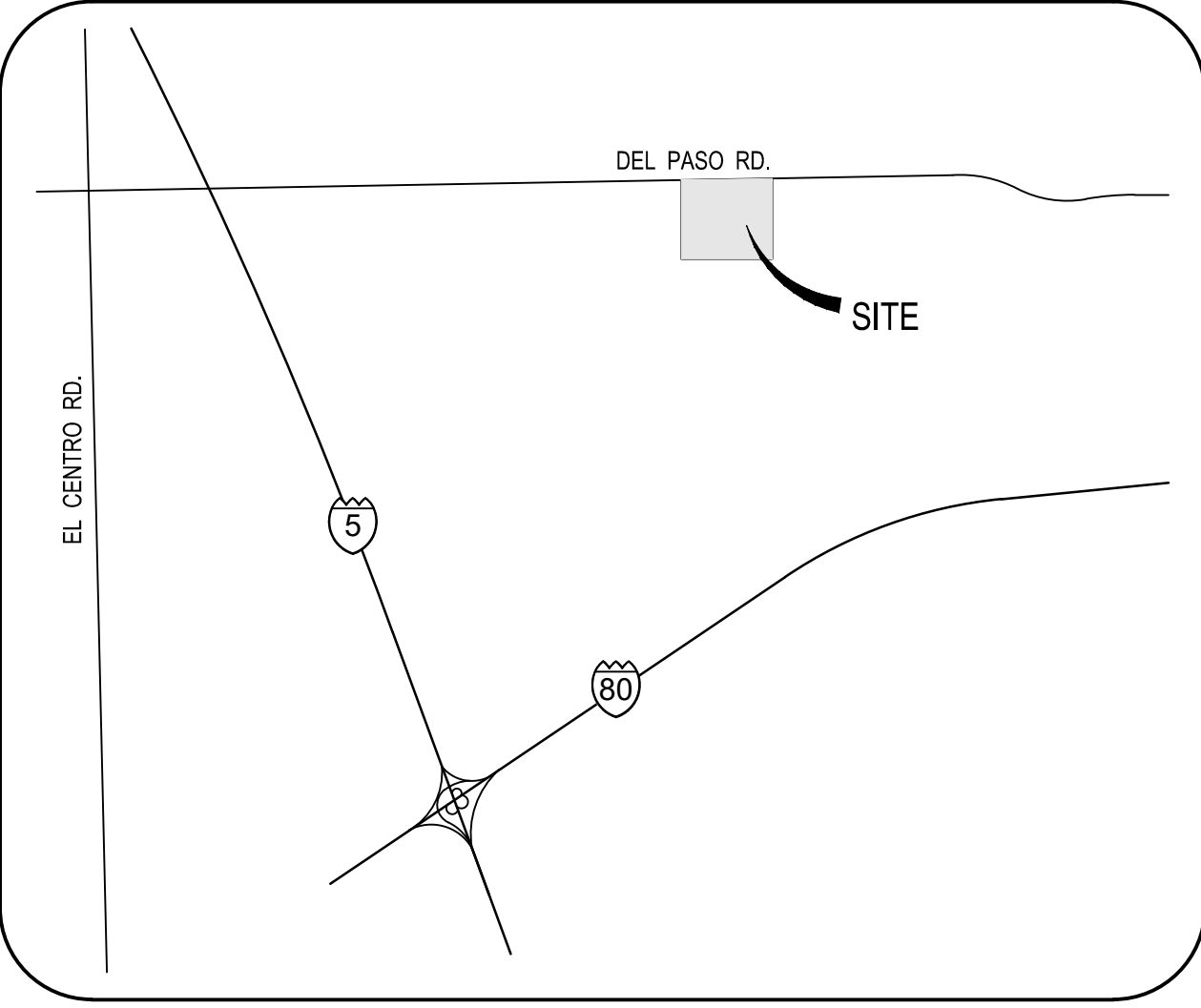
PT#	NORTHING	EASTING	ELEV.	DESC.
1	10000.000	20000.000	16.24	CP-60D



SCALE: 1" = 40'



DESCRIPTION	DATE	REV	REV	REV	REV
Proj Mgr. _____	Date: 3/12/2018				
Prog Num. _____	Drawn by: _____				
COMPANY LOGO			COMPANY OFFICE ADDRESS 1 ADDRESS 2 PHONE FAX		
Project Name			Client Name		
Sheet Description			Sheet Description		
SHEET	1	of #SHEETS			



VICINITY MAP
NOT TO SCALE

SURVEYOR'S STATEMENT:
THIS TOPOGRAPHIC MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY COMPLETED ON _____, 20__.



DATED: _____ JOHN Q. SURVEYOR LS 1234
EXPIRES: MM/DD/YY COMPANY

- SURVEY NOTES:**
1. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED, ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
 2. ELEVATION SHOWN HEREON WERE DERIVED FROM G.P.S. OBSERVATION WITH A RELATIVE ACCURACY OF ±0.1'.

BASIS OF BEARINGS:
THE BASIS OF BEARINGS FOR THIS MAP IS IDENTICAL WITH THE CENTERLINE OF XXXXXXXX, AS SHOWN ON BOOK XXX OF MAPS, AT PAGE XX, COUNTY RECORDS. THE BEARING OF WHICH IS GIVEN AS XXXXXX" AND WAS ESTABLISHED FROM FOUND MONUMENTS SHOWN HEREON.

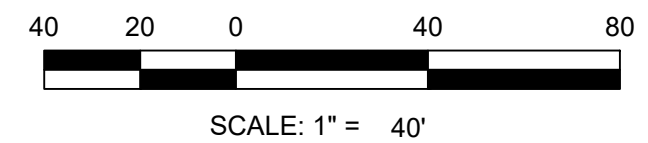
OR
THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM, ZONE __ NORTH AMERICAN DATUM 1983 PROJECTED TO GROUND COORDINATES, — DERIVED FROM "OPUS" POSITION ON MMDDYY — or — ROTATED TO "NGS" MONUMENTS — AND — THE BEARING OF WHICH LINE IS XX'XXXX", — ADJUSTED TO THE XXXXX EPOCH AND USING THE FOLLOWING PROJECTION AND LOCAL SITE VALUES:

- PROJECTION - LAMBERT CONFORMAL CONIC
ORIGIN: 37°40'00.00000"N 122°00'00.00000"W
FALSE NORTHING: 1640416.667 FALSE EASTING: 6661666.667
- LOCAL SITE -
LAT: XXX'XXX.XXXXX"N LON: XXX'XXX.XXXXX"W
E HGT: XXX.XXX FT
GSF: XX FALSE OFFSET: X.N. X.E.
- CONTROL #1 -
LAT: XXX'XXX.XXXXX"N LON: XXX'XXX.XXXXX"W
E HGT: XXX.XXX FT (OPUS)

BENCHMARK:
CITY OF _____ BENCHMARK STAMPED: _____
MONUMENT DESCRIPTION
ELEVATION: _____

CONTROL TABLE:

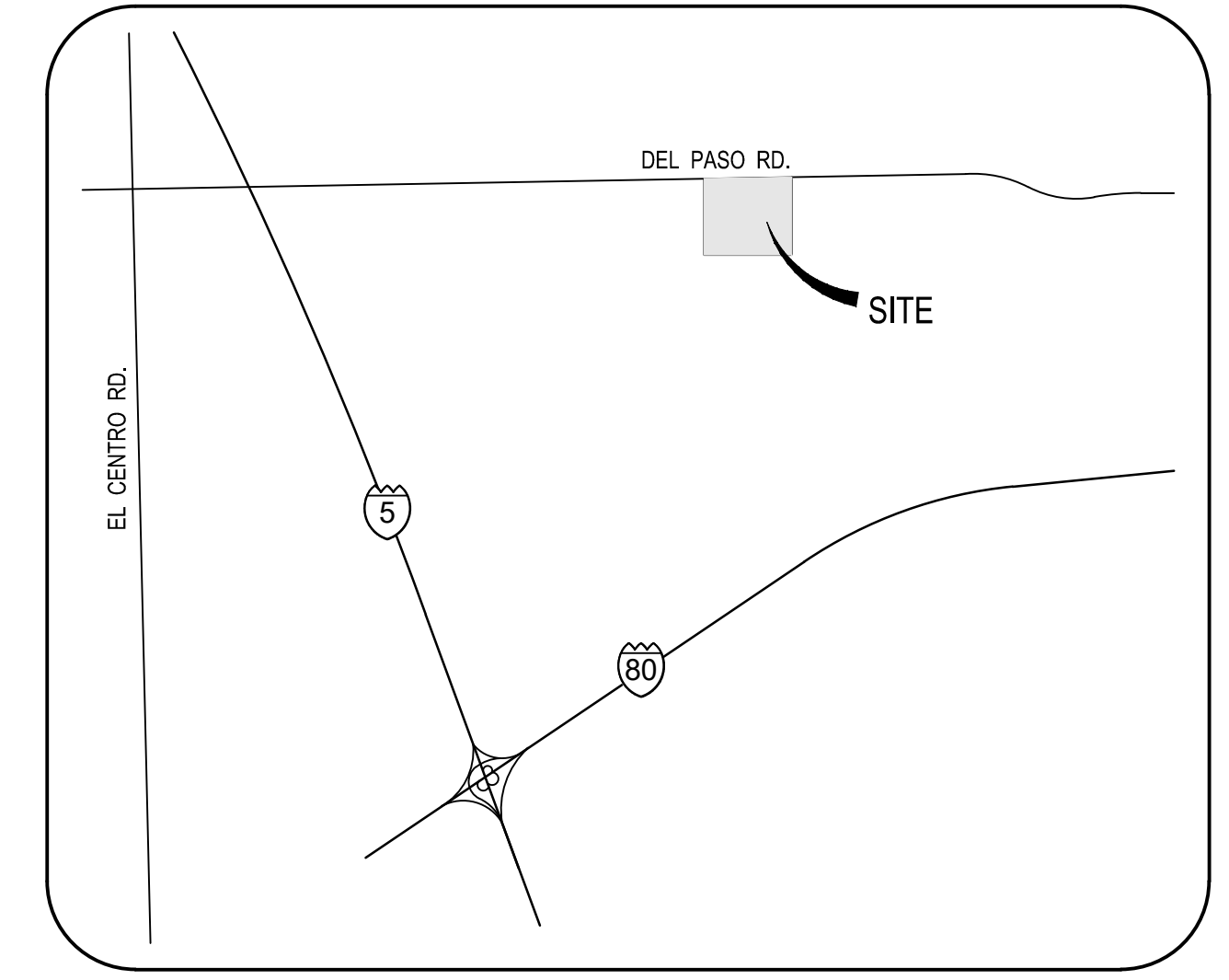
PT#	NORTHING	EASTING	ELEV.	DESC.
1	10000.000	20000.000	16.24	CP-600



COMPANY LOGO
COMPANY ADDRESS PHONE FAX

Project Name
Client Name
Sheet Description

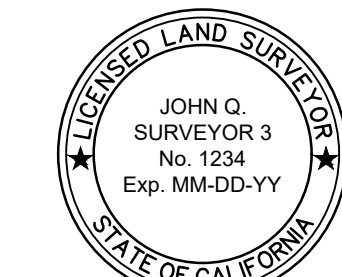
SHEET 1 OF # SHEETS



VICINITY MAP
NOT TO SCALE

SURVEYOR'S STATEMENT:

THIS TOPOGRAPHIC MAP WAS PREPARED BY ME OR UNDER MY DIRECTION AND IS BASED UPON A FIELD SURVEY COMPLETED ON ____ 20__.



DATED _____

JOHN Q. SURVEYOR, LS 1234
EXPIRES: MM/DD/YY
COMPANY

SURVEY NOTES:

1. THE UNDERGROUND UTILITIES SHOWN HEREON HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED. ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE, THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
2. ELEVATION SHOWN HEREON WERE DERIVED FROM G.P.S. OBSERVATION WITH A RELATIVE ACCURACY OF ±0.1'.

BASIS OF BEARINGS:

THE BASIS OF BEARINGS FOR THIS MAP IS IDENTICAL WITH THE CENTERLINE OF XXXXXXXX, AS SHOWN ON BOOK XXX OF MAPS, AT PAGE XX, COUNTY RECORDS, THE BEARING OF WHICH IS GIVEN AS XXXXXX' AND WAS ESTABLISHED FROM FOUND MONUMENTS SHOWN HEREON.

OR

THE BASIS OF BEARINGS FOR THIS MAP IS THE CALIFORNIA COORDINATE SYSTEM, ZONE __, NORTH AMERICAN DATUM 1983 PROJECTED TO GROUND COORDINATES, -- DERIVED FROM "ORPUS" POSITION ON MMDDYY -- or -- ROTATED TO "NGS" MONUMENTS -- AND -- THE BEARING OF WHICH LINE IS XXXXXX', -- ADJUSTED TO THE XXXXX EPOCH AND USING THE FOLLOWING PROJECTION AND LOCAL SITE VALUES:

- PROJECTION - LAMBERT CONFORMAL CONIC
ORIGIN: 37°40'00.0000"N 122°00'00.0000"W
FALSE NORTHING: 166416.667
FALSE EASTING: 6581668.667
- LOCAL SITE -
LAT: XX'XXX.XXXXX"N LON: XXX'XXX.XXXXX"W
E HOT: XXX.XXX'FT
GSF: XX FALSE OFFSET: X, N, X, E.
- CONTROL #1 -
LAT: XX'XXX.XXXXX"N LON: XXX'XXX.XXXXX"W
E HOT: XXX.XXX'FT (GPUS)

BENCHMARK:

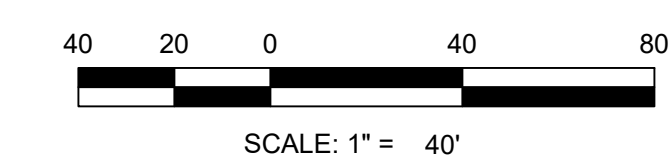
CITY OF _____ BENCHMARK STAMPED: _____

MONUMENT DESCRIPTION _____

ELEVATION _____

CONTROL TABLE:

PT#	NORTHING	EASTING	ELEV.	DESC.
1	10000.000	20000.000	16.24	CP-600



PROJ. No.	DATE	REVISION	DATE	DESCRIPTION	DATE	DESCRIPTION	DATE
Proj. No.	Proj. No.	Proj. No.	Proj. No.	Proj. No.	Proj. No.	Proj. No.	Proj. No.
Drawn by:	Drawn by:	Drawn by:	Drawn by:	Drawn by:	Drawn by:	Drawn by:	Drawn by:
Date: 3/2/2018	Date: 3/2/2018	Date: 3/2/2018	Date: 3/2/2018	Date: 3/2/2018	Date: 3/2/2018	Date: 3/2/2018	Date: 3/2/2018
COMPANY LOGO				COMPANY ADDRESS PHONE FAX			
SHEET				Project Name			
1				Client Name			
OF # SHEETS				Sheet Description			

SPS Description Key Manager

Code	Style	Point Label Style	Format	Layer	Scale Parameter
AC*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-PVMT-SPOT-	<input type="checkbox"/> Parameter
AD*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-PVMT-DIKE-	<input type="checkbox"/> Parameter
ATM*	<input checked="" type="checkbox"/> ATM	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-SITE-ATM~-	<input type="checkbox"/> Parameter
BBQ*	<input checked="" type="checkbox"/> BBQ	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-SITE-BBQ~-	<input type="checkbox"/> Parameter
BCD*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-ROAD-BARR-	<input type="checkbox"/> Parameter
BFC*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-TOPO-CONC-BFCB-	<input type="checkbox"/> Parameter
BGAW*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-AWNG-	<input type="checkbox"/> Parameter
BGDK*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-DECK-	<input type="checkbox"/> Parameter
BGEN*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-ENTR-	<input type="checkbox"/> Parameter
BGFF*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-FFLR-	<input type="checkbox"/> Parameter
BGHR*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-HRAL-	<input type="checkbox"/> Parameter
BGLC*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-	<input type="checkbox"/> Parameter
BGOH*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-OVHD-	<input type="checkbox"/> Parameter
BGPH*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-PRCH-	<input type="checkbox"/> Parameter
BGRD*	<input checked="" type="checkbox"/> Roof Drain	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-RFDN-	<input type="checkbox"/> Parameter
BGVN*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BLDG-VENT-	<input type="checkbox"/> Parameter
BH*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-SITE-BNCH-	<input type="checkbox"/> Parameter
BK*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-SITE-BIKE-	<input type="checkbox"/> Parameter
BL*	<input checked="" type="checkbox"/> Bollard	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-SITE-BLRD-	<input type="checkbox"/> Parameter
BM*	<input checked="" type="checkbox"/> Bench Mark	<input checked="" type="checkbox"/> PNT	\$*	<input checked="" type="checkbox"/> VN-CTRL-BMRK-	<input type="checkbox"/> Parameter
BOD*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-TOPO-BOTD-	<input type="checkbox"/> Parameter
BRAB*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BRDG-ABUT-	<input type="checkbox"/> Parameter
BRCJ*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BRDG-CTLJ-	<input type="checkbox"/> Parameter
BRDK*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BRDG-DECK-	<input type="checkbox"/> Parameter
BRGR*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-BRDG-GRAL-	<input type="checkbox"/> Parameter
BS*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-CTRL-CHEK-	<input type="checkbox"/> Parameter
BWL*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-TOPO-BRWL-	<input type="checkbox"/> Parameter
calc*	<input checked="" type="checkbox"/> Calc Point	<input checked="" type="checkbox"/> Calc Point (Red)	\$*	<input checked="" type="checkbox"/> VN-SURV-CALC-	<input type="checkbox"/> Parameter
CALC*	<input checked="" type="checkbox"/> Calc Point	<input checked="" type="checkbox"/> Calc Point (Green)	\$*	<input checked="" type="checkbox"/> VN-SURV-CALC-	<input type="checkbox"/> Parameter
CB*	<input checked="" type="checkbox"/> Catch Basin	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-STRM-BASN-	<input type="checkbox"/> Parameter
CE*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-TOPO-CONC-EDGE-	<input type="checkbox"/> Parameter
CHK*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-CTRL-CHEK-	<input type="checkbox"/> Parameter
CHM*	<input checked="" type="checkbox"/> No Symbol	<input checked="" type="checkbox"/> PNT-ELEV-DESC	\$*	<input checked="" type="checkbox"/> VN-CTRL-CHM-	<input type="checkbox"/> Parameter

SPS Civil 3D Linework Code Set

Edit Linework Code Set

Property	Value
Information	
Name	SPS Linework Code Set
Description	
Coding Methods	
Feature/Code delimiter	<Space>
Field code escape	/
Start in comment mode	<input type="checkbox"/> No
Automatic begin on figure prefix match	<input type="checkbox"/> No
Special Codes	
Begin	B
Continue	C
End	E
Close	CLS
Horizontal offset	H
Vertical offset	V
Stop offsets	SO
Line Segment Codes	
Recall point	RPN
Connect point	CPN
Rectangle	RECT
Right turn	RT
Extend	X
Curve Segment Codes	
Begin curve	BC
End curve	EC
Circle	CIR
Point on curve	OC

Begin curve
Value: BC

OK Cancel Help

SPS Civil 3D Figure Prefix Library

Figure Prefix Database Manager - SPS Figures Rev 0

Name	Breakline	Lot Line	Layer	Style	Site
AC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-PVMT-SPOT-LINE-	Show Linewor	Survey Site
AD	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-PVMT-DIKE-LINE-	Show Linewor	Survey Site
BCD	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-ROAD-BARR-LINE-	Show Linewor	Survey Site
BFC	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-CONC-BFCB-LINE	Show Linewor	Survey Site
BGAW	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-BLDG-AWNG-LINE-	Show Linewor	Survey Site
BGDK	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-BLDG-DECK-LINE-	Show Linewor	Survey Site
BGHR	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-BLDG-HRAL-LINE-	Show Linewor	Survey Site
BGLC	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-BLDG-LINE-	Show Linewor	Survey Site
BGOH	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-BLDG-OVHD-LINE-	Show Linewor	Survey Site
BOD	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-BOTD-LINE-	Show Linewor	Survey Site
BRAB	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-BRDG-ABUT-LINE-	Show Linewor	Survey Site
BRDK	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-BRDG-DECK-LINE-	Show Linewor	Survey Site
BRGR	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-BRDG-GRAL-LINE-	Show Linewor	Survey Site
BWL	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-BRWL-LINE-	Show Linewor	Survey Site
CE	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-CONC-EDGE-LINE	Show Linewor	Survey Site
CMBL	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-BOX--LINE-	Show Linewor	Survey Site
CMCD	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-CNDT-LINE-	Show Linewor	Survey Site
CMCL	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-CABN-LINE-	Show Linewor	Survey Site
CMFO	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-FIBR-LINE-	Show Linewor	Survey Site
CMGM	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-GEOP-LINE-QLB-	Show Linewor	Survey Site
CMMH	<input type="checkbox"/> No	<input type="checkbox"/> No	VN-COMM-MHOL-SYMB-	Show Linewor	Survey Site
CMOH	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-OVHD-LINE-	Show Linewor	Survey Site
CMPF	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-MRKG-LINE-QLC	Show Linewor	Survey Site
CMPM	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-MRKG-LINE-QLC	Show Linewor	Survey Site
CMTH	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-COMM-TRNC-LINE-	Show Linewor	Survey Site
CMVL	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-COMM-VALT-LINE-	Show Linewor	Survey Site
CON	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-CONC-BRKL-LINE	Show Linewor	Survey Site
CR	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-ROAD-CRWN-LINE-	Show Linewor	Survey Site
CWL	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-CONC-WALL-LINI	Show Linewor	Survey Site
CWW	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-CONC-WING-LINI	Show Linewor	Survey Site
DFL	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-TOPO-FLOW-LINE-	Show Linewor	Survey Site
DWY	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	VF-ROAD-DRIV-LINE-	Show Linewor	Survey Site
ECBL	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-ELEC-BOX--LINE-	Show Linewor	Survey Site
ECCD	<input type="checkbox"/> No	<input type="checkbox"/> No	VF-ELEC-CNDT-LINE-	Show Linewor	Survey Site

OK Cancel Help

Filters	S... Name	O...	Fr...	L...	Col...	Linety...	Linewe...	Tran...	Plot...	P...	N...	V...	VP...	VP Lin...	VP Lin...	VP T...	VP P...	Description
All	0	☺	☺	☺	w...	Contin...	— Def...	0	Colo...	☺	☺	☺	w...	Contin...	— Def...	0	Colo...	0
All Non-Xref Layers	C-PROF-ANNO-	☺	☺	☺	91	Contin...	— 0.2...	0	Colo...	☺	☺	☺	91	Contin...	— 0.2...	0	Colo...	Surface: Proposed Profile Text
All Used Layers	C-PROF-LINE-	☺	☺	☺	bl...	Contin...	— 0.8...	0	Colo...	☺	☺	☺	bl...	Contin...	— 0.8...	0	Colo...	Surface: Proposed Profile Line
Annotation	C-PROF-LINE-EXTN-	☺	☺	☺	w...	HIDDEN	— 0.1...	0	Colo...	☺	☺	☺	w...	HIDDEN	— 0.1...	0	Colo...	Surface: Proposed Profile Ext...
Boundary	C-TINN-DSRF-	☺	☺	☺	11	Contin...	— 0.2...	0	Colo...	☺	☺	☺	11	Contin...	— 0.2...	0	Colo...	Surface: Proposed
Buildings	C-TINN-DSRF-BNDY-	☺	☺	☺	110	Contin...	— 0.1...	0	Colo...	☺	☺	☺	110	Contin...	— 0.1...	0	Colo...	Surface: Proposed Boundary
Cable & TV	C-TINN-DSRF-CONT-...	☺	☺	☺	112	Contin...	— 0.3...	0	Colo...	☺	☺	☺	112	Contin...	— 0.3...	0	Colo...	Surface: Proposed Major (Co...
Communication	C-TINN-DSRF-CONT-...	☺	☺	☺	111	Contin...	— 0.2...	0	Colo...	☺	☺	☺	111	Contin...	— 0.2...	0	Colo...	Surface: Proposed Minor (Co...
Control & Monumen	C-TINN-DSRF-VIEW	☺	☺	☺	11	Contin...	— 0.2...	0	Colo...	☺	☺	☺		Contin...	— 0.2...	0	Colo...	Surface: Proposed Triangle Vi...
Easement	C-TOPO-SPOT-	☺	☺	☺	w...	Contin...	— 0.1...	0	Colo...	☺	☺	☺	w...	Contin...	— 0.1...	0	Colo...	Surface: Proposed Spot Eleva...
Electrical	Defpoints	☺	☺	☺	w...	Contin...	— Def...	0	Colo...	☺	☺	☺	w...	Contin...	— Def...	0	Colo...	Defpoints
Fences & Gates	V-ALGN-ANNO-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Horizontal Alignment: Text
Irrigation	V-ALGN-LINE-	☺	☺	☺	bl...	Contin...	— 0.8...	0	Colo...	☺	☺	☺	bl...	Contin...	— 0.8...	0	Colo...	Horizontal Alignment: Line
Linework	V-ALGN-LINE-EXTN-	☺	☺	☺	w...	HIDDEN	— 0.1...	0	Colo...	☺	☺	☺	w...	HIDDEN	— 0.1...	0	Colo...	Horizontal Alignment: Extens...
Natural Gas	V-ANNO-BRNG-	☺	☺	☺	y...	Contin...	— 0.3...	0	Colo...	☺	☺	☺	y...	Contin...	— 0.3...	0	Colo...	Annotation: Bearings and Dis...
Paint-Geophysical M	V-ANNO-BRNG-LINE-	☺	☺	☺	g...	DASH...	— 0.5...	0	Colo...	☺	☺	☺	g...	DASH...	— 0.5...	0	Colo...	Annotation: Bearings and Dis...
Petroleum	V-ANNO-DIMS-SYMB-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Dimension Symb...
Rejected Utilities	V-ANNO-LEGN-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Legend and Abb...
Roadway	V-ANNO-LEGN-SYMB-	☺	☺	☺	w...	Contin...	— 0.1...	0	Colo...	☺	☺	☺	w...	Contin...	— 0.1...	0	Colo...	Annotation: Legends, Symbol...
Sewer	V-ANNO-LOGO-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Company Logo
Site Features	V-ANNO-MATC-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Match Lines
Storm	V-ANNO-NOTE-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Notes
Survey Points	V-ANNO-NPLT-	☺	☺	☺	w...	Contin...	— 0.1...	0	Colo...	☺	☺	☺	w...	Contin...	— 0.1...	0	Colo...	Annotation: Non-Plotting Gr...
Symbols	V-ANNO-NRTH-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: North Arrow
Topography	V-ANNO-RDME-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Read-Me Layer (...)
Trench Scars	V-ANNO-REDL-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Redlines
Unidentified	V-ANNO-REFR-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Reference, Exter...
Utility Quality A	V-ANNO-REFR-IMAG-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Reference, Exter...
Utility Quality B	V-ANNO-REVC-	☺	☺	☺	c...	Contin...	— 0.7...	0	Colo...	☺	☺	☺	c...	Contin...	— 0.7...	0	Colo...	Annotation: Revision Clouds
Utility Quality C	V-ANNO-REVS-	☺	☺	☺	g...	Contin...	— 0.5...	0	Colo...	☺	☺	☺	g...	Contin...	— 0.5...	0	Colo...	Annotation: Revision Indicato...
Utility Quality D	V-ANNO-SCAL-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Scale Bar
Vegetation	V-ANNO-STMP-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Professional Sta...
Water	V-ANNO-TABL-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Data Tables
	V-ANNO-TITL-	☺	☺	☺	y...	Contin...	— 0.3...	0	Colo...	☺	☺	☺	y...	Contin...	— 0.3...	0	Colo...	Annotation: Drawing or Detai...
	V-ANNO-TTLB-	☺	☺	☺	m...	Contin...	— 1.0...	0	Colo...	☺	☺	☺	m...	Contin...	— 1.0...	0	Colo...	Annotation: Border and Title...
	V-ANNO-TTLB-ATRIB-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Annotation: Border and Title...
	V-ANNO-TTLB-TEXT-	☺	☺	☺	11	Contin...	— 0.2...	0	Colo...	☺	☺	☺	11	Contin...	— 0.2...	0	Colo...	Annotation: Border and Title...
	V-DETL-ANNO-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Detail: Text
	V-DETL-ANNO-DIMS-	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	☺	☺	☺	red	Contin...	— 0.2...	0	Colo...	Detail: Dimensions
	V-DETL-PATT-ASPH-	☺	☺	☺	77	Contin...	— 0.1...	0	Colo...	☺	☺	☺	77	Contin...	— 0.1...	0	Colo...	Detail: Pattern Asphalt
	V-DETL-PATT-BLDG-	☺	☺	☺	77	Contin...	— 0.1...	0	Colo...	☺	☺	☺	77	Contin...	— 0.1...	0	Colo...	Detail: Pattern Building

SPS Civil 3D Figure Commands Guide

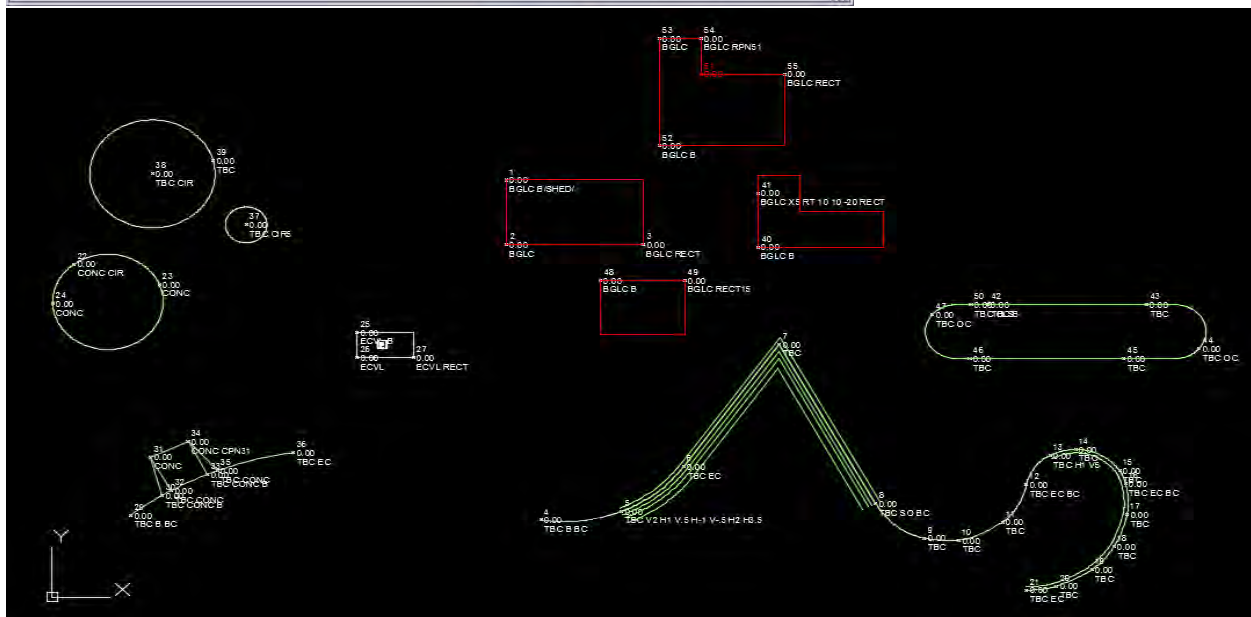
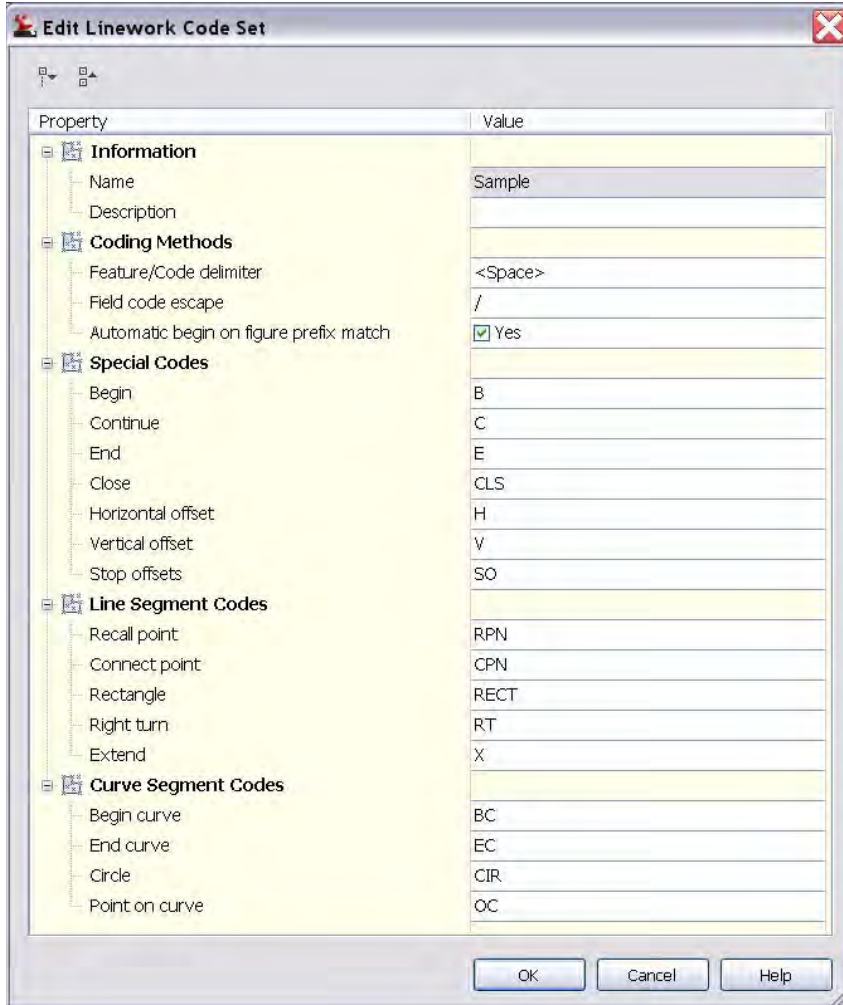


All line work features should be collected with the figure commands below to allow automated processing upon import to Civil 3D through the Survey Tab of the Toolspace. There are a few simple rules that should be followed at all times to ensure intent of the field surveyor.

- All Figure Commands should be entered after the Feature Code with a space in between them (e.g. TBC B).
- Always collect feature codes with symbols as a separate point.
- Collect line feature points with multiple codes in sequence (e.g. TBC B SWK B).
- Collect all curves with at least three points. The beginning point of the curve will have the BC figure command and the last point will have the EC figure command. Figures can also begin or end on a curve by using the B and E commands together with BC and EC (e.g. TBC B BC or TBC EC E).

B	Begin Figure	Begin a figure with the name of the preceding feature code
C	Continue	Continue a figure with the name of the preceding feature code
E	End Figure	End a figure with the name of the preceding feature code
BC	Begin Curve	Beginning of curve, all points to end curve will be included
EC	End Curve	End of curve, all points from begin curve will be included
CLS	Close Figure	Closes a figure to the first point from current location
/note/		Used to enter notes within a feature code, NO SPACES AT BEGINNING OR END OF NOTE
CIR	Circles	1, 2 or 3 point circles can be collected
H or V	Horizontal or Vertical Offset	Horizontal and vertical offset information is input as H# and V# (positive # is right/up, negative # is left/down)
OC	Point on Curve	Use 2 tangent shots before and after a curve with a point on the curve to automatically create a figure with 2 tangent lines and a curve between with calculated PC and PT points
RECT	Rectangle	Closes figure by turning 90 deg from FIRST and LAST line segments, also used to offset current segment by specified amount
CPN	Connect Point Number	Creates a new figure from current point to a specified point number
RPN	Recall Point Number	Connect active figure with a segment from the last point in a figure to the specified point number
RT	Right Turn	Used with a line segment code to insert additional vertices perpendicular to the figure
SO	Stop Offset	Stops the H and V offsets and continues with the primary figure
X	Extend	Extend the current segment ahead with a positive number and back with a negative number a specified distance from the current point

SPS Civil 3D Figure Commands Guide



Pens, Text & Linetypes - SPS B&W-Color.ctb

	0.15mm / 0.0059in	0.25mm / 0.0098in	0.35mm / 0.0138in	0.50mm / 0.0197in	0.70mm / 0.0276in	0.85mm / 0.0335in	1.00mm / 0.0472in	0.12mm / 0.0047in	0.06mm / 0.0024in	.180mm / 0.0071in
100% SCREENING										
100% SCREENING										
100% SCREENING										
100% SCREENING										
100% SCREENING										
50% SCREENING										
37% SCREENING										
100% SCREENING										
100% SCREENING										
100% SCREENING										
75% SCREENING										
100% SCREENING										
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100% SCREENING										
100% SCREENING										
100% SCREENING										
37% SCREENING										
50% SCREENING										
100% SCREENING										
SCREENING VARIES										

TEXT STYLE NAME	HEIGHT	FONT	APPLICATION
NCS	0.0983	ARIAL	NCS STANDARD FONT
NCS1	0.0983	ARIAL	NCS STANDARD FONT
NCS2 (NCS2)	(0.0983)	(WINGDINGS)	(NCS STANDARD FONT)
NCS3	0.0983	CONSOLA3	NCS STANDARD FONT
NCS4	0.0983	TECHNICLITE	NCS STANDARD FONT
SPS-BOLD	0.15	BOLD	TITLE BLOCK, MAP NUMBERS, BORDER BOOK AND PAGE
<i>SPS-BOUNDARY</i>	<i>0.115</i>	<i>SIMPLEX</i>	<i>BOUNDARY BEARINGS AND DISTANCES</i>
SPS-DASHED	0.15	DASHED	PARCEL NUMBERS, ADJACENT OWNERS, SUBDIVISION NAMES
<i>SPS-PARCELS</i>	<i>0.100</i>	<i>SIMPLEX</i>	<i>LOT AND EASEMENT BEARINGS AND DISTANCES</i>
SPS-ROMANC	0.15	ROMANC	STREETS, WATERWAYS, LOT NUMBERS AND NAMES
SPS-SHADOW	0.2	SHADOW	PARCEL NUMBERS, ADJACENT OWNERS, SUBDIVISION NAMES
<i>SPS-TOPO NOTES</i>	<i>0.10</i>	<i>HANDI</i>	<i>TOPO NOTES AND TEXT</i>
STANDARD	0.0	ARIAL	DEFAULT AUTOCAD STYLE

SURVEY LEGEND

DESCRIPTION	COLOR	LINETYPE	PLOT EXAMPLE	DESCRIPTION	COLOR	LINETYPE	PLOT EXAMPLE
BOUNDARY SUBDIVISION LINE	5	CONTINUOUS					
BOUNDARY PARCEL LINE	52	CONTINUOUS					
STREET CENTERLINE	51	CENTER					
EASEMENT LINES	121	HIDDEN2					
RIGHT-OF-WAY LINE	213	PHANTOM2					
FENCE LINE	1	FENCE					
UNDERGROUND CABLE TV LINE	40	CABLETV					
OVERHEAD CABLE TV LINE	40	OVERHEADCABLE					
QUALITY D CABLE TV LINE	40	CABLETV-QLD					
COMMUNICATION LINE	10	COMMUNICATION					
FIBER OPTIC LINE	10	FIBEROPTIC					
OVERHEAD COMMUNICATION LINE	10	OVERHEADCOMM					
QUALITY D COMMUNICATION LINE	10	COMMUNICATION-QLD					
ELECTRIC LINE	10	ELECTRIC					
OVERHEAD ELECTRIC LINE	10	OVERHEADELECTRIC					
QUALITY D ELECTRIC LINE	10	ELECTRIC-QLD					
IRRIGATION LINE	160	IRRIGATION					
QUALITY D IRRIGATION LINE	160	IRRIGATION-QLD					
NATURAL GAS LINE	50	GAS					
QUALITY D NATURAL GAS LINE	50	GAS-QLD					
PETROLEUM LINE	50	PETROLEUM					
QUALITY D PETROLEUM LINE	50	PETROLEUM-QLD					
SEWER LINE	90	SEWER					
FORCED SEWER LINE	90	SEWERFORCED					
QUALITY D SEWER LINE	90	SEWER-QLD					
STORM DRAIN LINE	210	STORMDRAIN					
QUALITY D STORM DRAIN LINE	210	STORMDRAIN-QLD					
UNIDENTIFIED OVERHEAD LINE	WHITE	UNIDENTIFIEDOVERHEAD					
UNIDENTIFIED UNDERGROUND LINE	WHITE	UNIDENTIFIEDUNDERGROUND					
QUALITY D UNIDENTIFIED LINE	WHITE	UNIDENTIFIED-QLD					
WATER LINE	140	WATER					
QUALITY D WATER LINE	140	WATER-QLD					

Name	On	Freeze	Lock	*	Color	Linetype	Lineweight	Transparency	PlotStyle	Plot	Description
0	Y	N	N	■	white	Continuous	Default	90	Color_7	Y	
C-PROF-ANNO-	Y	N	N	■	91	Continuous	0.25mm	0	Color_91	Y	Surface: Proposed Profile Text
C-PROF-LINE-	Y	N	N	■	blue	Continuous	0.80mm	0	Color_5	Y	Surface: Proposed Profile Line
C-PROF-LINE-EXTN-	Y	N	N	■	white	HIDDEN	0.13mm	0	Color_7	Y	Surface: Proposed Profile Extension
C-TINN-DSRF-	Y	N	N	■	11	Continuous	0.25mm	0	Color_11	Y	Surface: Proposed
C-TINN-DSRF-BNDY-	Y	N	N	■	110	Continuous	0.15mm	0	Color_110	N	Surface: Proposed Boundary
C-TINN-DSRF-CONT-MAJR-	Y	N	N	■	112	Continuous	0.35mm	0	Color_112	Y	Surface: Proposed Major (Contours)
C-TINN-DSRF-CONT-MINR-	Y	N	N	■	111	Continuous	0.25mm	0	Color_111	Y	Surface: Proposed Minor (Contours)
C-TINN-DSRF-VIEW	Y	N	N	■	11	Continuous	0.25mm	0	Color_11	Y	Surface: Proposed Triangle View
C-TOPO-SPOT-	Y	N	N	■	white	Continuous	0.13mm	0	Color_7	Y	Surface: Proposed Spot Elevations
Defpoints	Y	N	N	■	white	Continuous	Default	90	Color_7	N	
V-ALGN-ANNO-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Horizontal Alignment: Text
V-ALGN-LINE-	Y	N	N	■	blue	Continuous	0.80mm	0	Color_5	Y	Horizontal Alignment: Line
V-ALGN-LINE-EXTN-	Y	N	N	■	white	HIDDEN	0.13mm	0	Color_7	Y	Horizontal Alignment: Extension Line
V-ANNO-BRNG-	Y	N	N	■	yellow	Continuous	0.35mm	0	Color_2	Y	Annotation: Bearings and Distance Labels
V-ANNO-BRNG-LINE-	Y	N	N	■	green	DASHED	0.50mm	0	Color_3	Y	Annotation: Bearings and Distance Tie Line
V-ANNO-DIMS-SYMB-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Dimension Symbol
V-ANNO-LEGN-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Legend and Abbreviation Text
V-ANNO-LEGN-SYMB-	Y	N	N	■	white	Continuous	0.13mm	0	Color_7	Y	Annotation: Legends, Symbol Keys
V-ANNO-LOGO-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Company Logo
V-ANNO-MATC-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Match Lines
V-ANNO-NOTE-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Notes
V-ANNO-NPLT-	Y	N	N	■	white	Continuous	0.13mm	0	Color_7	N	Annotation: Non-Plotting Graphic Information
V-ANNO-NRTH-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: North Arrow
V-ANNO-RDME-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	N	Annotation: Read-Me Layer (Not Plotted)
V-ANNO-REDL-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Redlines
V-ANNO-REFR-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Reference, External Files
V-ANNO-REFR-IMAG-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Reference, External Images
V-ANNO-REVC-	Y	N	N	■	cyan	Continuous	0.70mm	0	Color_4	Y	Annotation: Revision Clouds
V-ANNO-REVS-	Y	N	N	■	green	Continuous	0.50mm	0	Color_3	Y	Annotation: Revision Indicators And Text
V-ANNO-SCAL-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Scale Bar
V-ANNO-STMP-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Professional Stamps
V-ANNO-TABL-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Data Tables
V-ANNO-TITL-	Y	N	N	■	yellow	Continuous	0.35mm	0	Color_2	Y	Annotation: Drawing or Detail Titles
V-ANNO-TTLB-	Y	N	N	■	magenta	Continuous	1.00mm	0	Color_6	Y	Annotation: Border and Title Block
V-ANNO-TTLB-ATRB-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Annotation: Border and Title Block Attributes
V-ANNO-TTLB-TEXT-	Y	N	N	■	11	Continuous	0.25mm	0	Color_11	Y	Annotation: Border and Title Block Text
VB-BNDY-CALC-	Y	N	N	■	yellow	Continuous	0.35mm	0	Color_2	Y	Boundary: Calculations
VB-BNDY-LOTN-ANNO-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Boundary: Lot Number Text
VB-BNDY-PRCL-ANNO-	Y	N	N	■	red	Continuous	0.25mm	0	Color_1	Y	Boundary: Parcel Text
VB-BNDY-PRCL-ANNO-E-	Y	N	N	■	71	Continuous	0.25mm	0	Color_71	Y	Boundary: Parcel Text Existing
VB-BNDY-PRCL-LINE-	Y	N	N	■	52	Continuous	0.35mm	0	Color_52	Y	Boundary: Parcel Line
VB-BNDY-PRCL-LINE-E-	Y	N	N	■	71	Continuous	0.25mm	0	Color_71	Y	Boundary: Parcel Line Existing
VB-BNDY-RECD-ANNO-	Y	N	N	■	11	Continuous	0.25mm	0	Color_11	Y	Boundary: Record Text
VB-BNDY-SECT-ANNO-	Y	N	N	■	12	Continuous	0.35mm	0	Color_12	Y	Boundary: Section Text

VB-ESMT-STRM-LINE-	Y	N	N	121	HIDDEN2	0.25mm	0 Color_121	Y	Easement: Storm Line
VB-ESMT-TRAL-ANNO-	Y	N	N	121	Continuous	0.25mm	0 Color_121	Y	Easement: Trail Text
VB-ESMT-TRAL-LINE-	Y	N	N	121	HIDDEN2	0.25mm	0 Color_121	Y	Easement: Trail Line
VB-ESMT-UTIL-ANNO-	Y	N	N	121	Continuous	0.25mm	0 Color_121	Y	Easement: Utility Text
VB-ESMT-UTIL-LINE-	Y	N	N	121	HIDDEN2	0.25mm	0 Color_121	Y	Easement: Utility Line
VB-ESMT-WATR-ANNO-	Y	N	N	121	Continuous	0.25mm	0 Color_121	Y	Easement: Water Text
VB-ESMT-WATR-LINE-	Y	N	N	121	HIDDEN2	0.25mm	0 Color_121	Y	Easement: Water Line
VB-RWAY-ANNO-	Y	N	N	yellow	Continuous	0.35mm	0 Color_2	Y	Right-Of-Way: Text
VB-RWAY-ANNO-E-	Y	N	N	232	Continuous	0.35mm	0 Color_232	Y	Right-Of-Way: Text Existing
VB-RWAY-CNTR-ANNO-	Y	N	N	51	Continuous	0.25mm	0 Color_51	Y	Right-Of-Way: Centerline Text
VB-RWAY-CNTR-ANNO-E-	Y	N	N	171	Continuous	0.25mm	0 Color_171	Y	Right-Of-Way: Centerline Text Existing
VB-RWAY-CNTR-LINE-	Y	N	N	11	CENTER	0.25mm	0 Color_11	Y	Right-Of-Way: Centerline Line
VB-RWAY-CNTR-LINE-E-	Y	N	N	171	CENTER	0.25mm	0 Color_171	Y	Right-Of-Way: Centerline Line Existing
VB-RWAY-LINE-	Y	N	N	213	PHANTOM2	0.50mm	0 Color_213	Y	Right-Of-Way: Line
VB-RWAY-LINE-E-	Y	N	N	231	PHANTOM2	0.25mm	0 Color_231	Y	Right-Of-Way: Line Existing
V-DETL-ANNO-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Detail: Text
V-DETL-ANNO-DIMS-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Detail: Dimensions
V-DETL-PATT-ASPH-	Y	N	N	77	Continuous	0.13mm	0 Color_77	Y	Detail: Pattern Asphalt
V-DETL-PATT-BLDG-	Y	N	N	77	Continuous	0.13mm	0 Color_77	Y	Detail: Pattern Building
V-DETL-PATT-CONC-	Y	N	N	77	Continuous	0.13mm	0 Color_77	Y	Detail: Pattern Concrete
V-DETL-PATT-DIRT-	Y	N	N	77	Continuous	0.13mm	0 Color_77	Y	Detail: Pattern Dirt
V-DETL-PATT-GRVL-	Y	N	N	77	Continuous	0.13mm	0 Color_77	Y	Detail: Pattern Gravel
V-DETL-PATT-MISC-	Y	N	N	77	Continuous	0.13mm	0 Color_77	Y	Detail: Pattern Misc.
V-DETL-SYMB-MASK-	Y	N	N	253	Continuous	Default	90 Color_253	Y	Detail: Symbol Masking
V-DETL-VMAP-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Detail: Vicinity Map
V-DETL-VMAP-ANNO-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Detail: Vicinity Map Text
V-DETL-VMAP-HTCH-	Y	N	N	253	Continuous	0.25mm	0 Color_253	Y	Detail: Vicinity Map Hatch
V-DETL-VMAP-LINE-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Detail: Vicinity Map Line
V-DETL-VPRT-NPLT-	Y	N	N	white	Continuous	0.13mm	0 Color_7	N	Detail: View Port (Non-Plotting)
V-DETL-VPRT-PLOT-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Detail: View Port (Plotting)
VF-BLDG-AWNG-LINE-	Y	N	N	red	DASHED2	0.25mm	0 Color_1	Y	Building: Awning Line
VF-BLDG-DECK-LINE-	Y	N	N	red	DASHED2	0.25mm	0 Color_1	Y	Building: Deck Line (Attached, No Roof Overhead)
VF-BLDG-HRAL-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Building: Handrail Line
VF-BLDG-LINE-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Building: Face Line
VF-BLDG-OVHD-LINE-	Y	N	N	red	DASHED2	0.25mm	0 Color_1	Y	Building: Overhead Eave Line
VF-BLDG-PRCH-LINE-	Y	N	N	red	DASHED2	0.25mm	0 Color_1	Y	Building: Porch Line (Attached, Roof Overhead)
VF-BLDG-TEXT-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Building: Text
VF-BRDG-ABUT-LINE-	Y	N	N	91	Continuous	0.25mm	0 Color_91	Y	Bridge: Abutment Line
VF-BRDG-CTLJ-LINE-	Y	N	N	91	Continuous	0.25mm	0 Color_91	Y	Bridge: Control Joint Line
VF-BRDG-DECK-LINE-	Y	N	N	91	Continuous	0.25mm	0 Color_91	Y	Bridge: Deck Line
VF-BRDG-GRAL-LINE-	Y	N	N	91	Continuous	0.25mm	0 Color_91	Y	Bridge: Guardrail Line
VF-BRDG-TEXT-	Y	N	N	91	Continuous	0.25mm	0 Color_91	Y	Bridge: Text
VF-CATV-BOX~LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Cable TV: Box Line
VF-CATV-CABN-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Cable TV: Cabinet Line
VF-CATV-CNDT-LINE-	Y	N	N	40	CABLETV	0.15mm	0 Color_40	Y	Cable TV: Conduit Line
VF-CATV-GEOP-LINE-QLB-	Y	N	N	40	CABLETV	0.15mm	0 Color_40	Y	Cable TV: Geophysical Marking Quality B Line

VF-FUEL-LQPG-PIPE-WALL-LINE-	Y	N	N	50	HIDDEN2	0.15mm	0 Color_50	Y	Petroleum: Pipe Wall Line
VF-FUEL-LQPG-TEXT-	Y	N	N	51	Continuous	0.25mm	0 Color_51	Y	Petroleum: Text
VF-FUEL-LQPG-UNDR-LINE-QLD-	Y	N	N	50	PETROLEUM-QLD	0.15mm	0 Color_50	Y	Petroleum: Underground Pipe Quality D Line
VF-GATE-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Gate: Line
VF-IRRG-BOX~LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Irrigation: Box Line
VF-IRRG-GEOP-LINE-QLB-	Y	N	N	160	IRRIGATION	0.15mm	0 Color_160	Y	Irrigation: Geophysical Marking Quality B Line
VF-IRRG-MRKG-LINE-QLC-	Y	N	N	160	IRRIGATION	0.15mm	0 Color_160	Y	Irrigation: Marking Quality C Line
VF-IRRG-MRKG-LINE-RJCT-	Y	Y	N	white	IRRIGATION	0.13mm	0 Color_7	N	Irrigation: Marking Rejected Line
VF-IRRG-PIPE-LINE-QLA-	Y	N	N	160	IRRIGATION	0.15mm	0 Color_160	Y	Irrigation: Exposed Pipe Quality A Line
VF-IRRG-UNDR-LINE-QLD-	Y	N	N	160	IRRIGATION-QLD	0.15mm	0 Color_160	Y	Irrigation: Underground Quality D Line
VF-NGAS-GEOP-LINE-QLB-	Y	N	N	50	GAS	0.15mm	0 Color_50	Y	Natural Gas: Geophysical Marking Quality B Line
VF-NGAS-MISC-LINE-	Y	N	N	50	Continuous	0.15mm	0 Color_50	Y	Natural Gas: Misc. Line
VF-NGAS-MRKG-LINE-QLC-	Y	N	N	50	GAS	0.15mm	0 Color_50	Y	Natural Gas: Marking Quality C Line
VF-NGAS-MRKG-LINE-RJCT-	Y	Y	N	white	GAS	0.13mm	0 Color_7	N	Natural Gas: Marking Rejected Line
VF-NGAS-PIPE-LINE-QLA-	Y	N	N	50	GAS	0.15mm	0 Color_50	Y	Natural Gas: Exposed Pipe Quality A Line
VF-NGAS-PIPE-WALL-LINE-	Y	N	N	50	HIDDEN2	0.15mm	0 Color_50	Y	Natural Gas: Pipe Wall Line
VF-NGAS-TANK-LINE-	Y	N	N	50	Continuous	0.13mm	0 Color_50	Y	Natural Gas: Tank Line
VF-NGAS-TEXT-	Y	N	N	51	Continuous	0.25mm	0 Color_51	Y	Natural Gas: Text
VF-NGAS-TRNC-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Natural Gas: Trench Scar Line
VF-NGAS-UNDR-LINE-QLA-	Y	N	N	50	GAS	0.15mm	0 Color_50	Y	Natural Gas: Underground Pipe Quality A Line
VF-NGAS-UNDR-LINE-QLD-	Y	N	N	50	GAS-QLD	0.15mm	0 Color_50	Y	Natural Gas: Underground Pipe Quality D Line
VF-NGAS-VAULT-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Natural Gas: Vault Line
VF-PLNT-BOX~LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Plant: Box Line
VF-PLNT-BUSH-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Plant: Bush Line
VF-PLNT-CTNR-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Plant: Container Line
VF-PLNT-GCVR-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Plant: Ground Cover Line
VF-PLNT-LSSP-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Plant: Slope Protection Line
VF-PLNT-TURF-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Plant: Lawn-Turf Line
VF-PVMT-DIKE-LINE-	Y	N	N	52	Continuous	0.35mm	0 Color_52	Y	Pavement: Dike Line
VF-PVMT-EDGE-LINE-	Y	N	N	52	EDGEOPPAVEMENT	0.35mm	0 Color_52	Y	Pavement: Edge Line
VF-PVMT-SPOT-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Pavement: Spot Elevation Line
VF-RAIL-CNTR-LINE-	Y	N	N	white	TRACKS	0.13mm	0 Color_7	Y	Railroad: Centerline Line
VF-RAIL-TEXT-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Railroad: Text
VF-RAIL-TRAK-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Railroad: Track Line
VF-ROAD-ACCE-LINE-	Y	N	N	211	Continuous	0.25mm	0 Color_211	Y	Road: Access Line
VF-ROAD-ACCE-TEXT-	Y	N	N	211	Continuous	0.25mm	0 Color_211	Y	Road: Access Text
VF-ROAD-ANNO-	Y	N	N	11	Continuous	0.25mm	0 Color_11	Y	Road: Name Text
VF-ROAD-BARR-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Road: Barricade Line
VF-ROAD-CRWN-LINE-	Y	N	N	21	Continuous	0.25mm	0 Color_21	Y	Road: Crown Line
VF-ROAD-DIRT-LINE-	Y	N	N	11	EDGEOFDIRTROAD	0.25mm	0 Color_11	Y	Road: Dirt Line
VF-ROAD-DRIV-LINE-	Y	N	N	52	Continuous	0.35mm	0 Color_52	Y	Road: Driveway Line
VF-ROAD-GRVL-LINE-	Y	N	N	52	EDGEOFGRAVELROA	0.35mm	0 Color_52	Y	Road: Gravel Line
VF-ROAD-KRAL-LINE-	Y	N	N	white	Continuous	0.13mm	0 Color_7	Y	Road: K-Rail Line
VF-ROAD-RAIL-LINE-	Y	N	N	red	Continuous	0.25mm	0 Color_1	Y	Road: Guardrail Line
VF-ROAD-SHLD-LINE-	Y	N	N	41	Continuous	0.25mm	0 Color_41	Y	Road: Shoulder Line
VF-ROAD-STRP-BIKE-LINE-	Y	N	N	171	Continuous	0.25mm	0 Color_171	Y	Road: Bike Lane Line

\$ ATM	● BBQ BBQ	● RD Roof Drain	● BL Bollard
BM Bench Mark	⊠ 629 calc*	⊠ 630 CALC*	▤ Catch Basin
Antenna	Ⓢ Communication Box	Ⓢ Communication Cabinet	Ⓢ Communication Geophysical Mark
Ⓢ Communication Manhole	Ⓢ Communication Marking Post	Ⓢ Communication Pin Flag	Ⓢ Communication Paint Mark
▀ Communication Pole	Ⓢ Communication Riser	Ⓢ Communication Vault	▲ Control Horizontal-Vertical
Tree Coniferous	● DD Down Drain	▤ Drop Inlet	Tree Deciduous

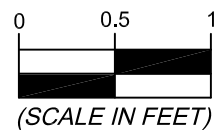


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










Sheet 1

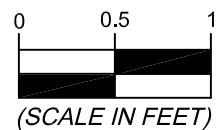
SPS Survey Rev.0 - Symbol Plot

Survey Program Solutions LLC

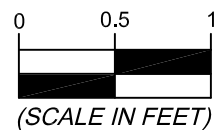


DATE: 8/15/17
 PAGE: 1 OF 7

 Gas Manhole	 Gas Marking Post	 Gas Meter	 Gas Pin Flag
 Gas Paint Mark	 Gas Riser	 Gas Tank	 Gas Electric Test Station
 Gas Valve	 Gas Vault	 Gate	 Guy Wire
 Guy Wire On Pole	 Irrigation Box	 Irrigation Controller	 Irrigation Geophysical Mark
 Sprinkler	 Irrigation Manhole	 Irrigation Pin Flag	 Irrigation Paint Mark
 Irrigation Standpipe	 Irrigation Valve	 Bush	 Landscape Light



 Sewer Geophysical Mark	 Sewer Manhole	 Sewer Pin Flag	 Sewer Paint Mark
 Sewer Tank	 Arrow	 Control Vertical	 Traffic Signal Box
 Traffic Signal Cabinet	 Traffic Signal Camera	 Traffic Signal Controller	 Traffic Signal Detector Well
 Traffic Signal Electrolier	 Pedestrian Pole	 Traffic Signal	 Traffic Signal Vault
 Cable TV Box	 Cable TV Cabinet	 Cable TV Geophysical Mark	 Cable TV Pin Flag
 Cable TV Paint Mark	 Cable TV Riser	 Cable TV Vault	 Unidentified Box



SPS Civil 3D Field-To-Finish Setup Guide



Purpose

The purpose of this work instruction is to outline the process of where to place the files provided in the SPS Civil 3D Field-To-Finish package and how to set up Civil 3D for the most efficiency.

Process Instructions

Legend:

Titles and File Names

COMMANDS AND BUTTONS

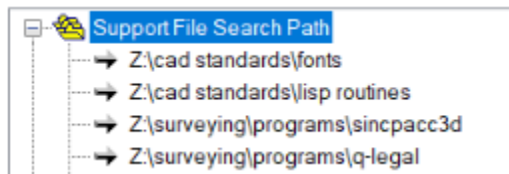
Folder Locations

References:

- Xx

Process Instructions

1. Copy all files from the **2022_0 Field-To-Finish\Autodesk** folder to the designated standards folder on your server (i.e. **Z:\Autodesk** used herein)
2. Open Civil 3D to modify User Profile Options and set Survey User Settings
3. Modifying User Profile Options
 - a. Enter **OP** in the command line to open the Options dialog box
 - b. Select the **Files** tab at the top of the dialog box
 - c. Select **Support Files Search Path** from the tree and click the **ADD** button
 - i. Add the **Z:\Autodesk\Fonts** file path location
 - ii. Add support file path locations for other items such as hatch patterns, lisp routines and 3rd party software



- iii. Add the location of company logos used in CAD borders
- d. Expand **Printer Support File Path** from the tree
 - i. Select **Printer Configuration Search Path** and click the **ADD** button
 1. Add the **Z:\Autodesk\Plotting\Plotters** file path location
 - ii. Select **Printer Description File Search Path** and click the **ADD** button
 1. Add the **Z:\Autodesk\Plotting\Plot Styles\PMP Files** file path location
 - iii. Select **Plot Style Table Search Path** and click the **ADD** button
 1. Add the **Z:\Autodesk\Plotting\Plot Styles** file path location

SPS Trimble Field-To-Finish Setup Guide



Purpose

The purpose of this work instruction is to outline the process of where to place the files provided in the SPS Trimble Field-To-Finish package and how to set up Trimble Business Center (TBC) for the most efficiency.

Process Instructions

Legend:

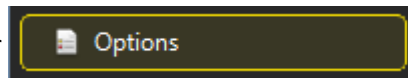
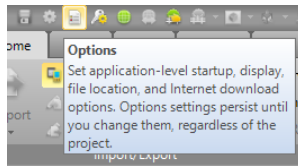
Titles and File Names

COMMANDS AND BUTTONS


Folder Locations

Process Instructions

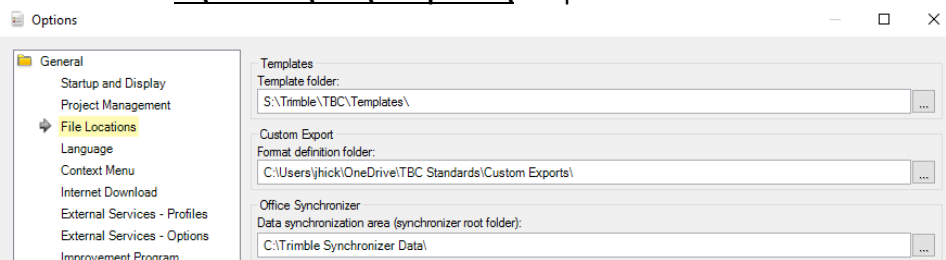
1. Copy all files from the **2022_0 Field-To-Finish\Trimble\TBC** folder to the designated standards folder on your server (i.e. **Z:\Trimble** used herein)
2. Open TBC to modify user Options
 - a. Select the **OPTIONS** button from the **Quick Access** toolbar at the top of the program screen or select the **File** tab and click the **OPTIONS** button



b.

- c. Select **File Locations** from the tree and click the **ELIPSE** button  at the end of the **Template folder**: selection box

- i. Browse to the **Z:\Trimble\TBC\Templates** file path location

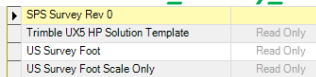


ii.

- iii. Select OK.

- d. Select **Start a new project** from the TBC **Start Page**

- i. Select the **SPS_Survey_2022_0** template and click the button at the bottom to **SET AS DEFAULT**



ii.

