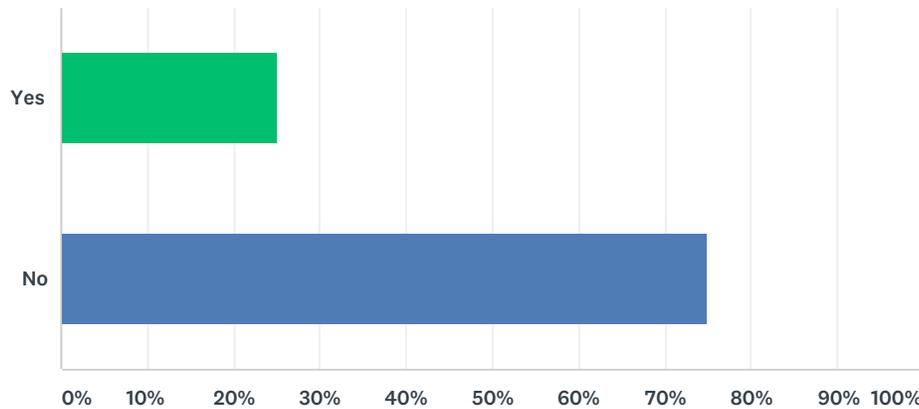


Q1 Have you run into problems of public misuse of coordinates on survey plans?

Answered: 295 Skipped: 1



ANSWER CHOICES	RESPONSES	
Yes	25.08%	74
No	74.92%	221
TOTAL		295

Q2 If you have run into problems, please briefly describe the problem.

Answered: 129 Skipped: 167

#	RESPONSES	DATE
1	I have not run into any problems with public misuse of coordinates on plans as of now.	12/13/2019 11:35 PM
2	teranet	12/13/2019 10:17 PM
3	Nonebut very small 1 man company responding here.	12/13/2019 10:10 PM
4	N/A	12/13/2019 8:53 PM
5	Public believe coordinates govern, they are unaware of the different geoditic system.	12/13/2019 8:09 PM
6	None	12/13/2019 8:05 PM
7	N/a	12/13/2019 7:21 PM
8	n/a	12/13/2019 6:02 PM
9	N/A	12/13/2019 5:30 PM
10	We haven't encountered any issues like this	12/13/2019 5:18 PM
11	no problems to date	12/13/2019 5:08 PM
12	I have a client ask me to lay out boundary corner by using GPS.He ask me to lay out the coordinates showing on reference plan.We have to spend quite a bit of time to explain the actual boundary re-tracement procedure.	12/13/2019 5:07 PM
13	I do not believe this is a problem. The public can use plans without coordinates today (e.g., SRPRs). They would be unwise to do so, it would not hold up in court.	12/13/2019 5:03 PM
14	Problems I've noted are in regard to grid versus ground cad files. I've encountered architects and engineers who fail to appreciate the difference.	12/13/2019 4:57 PM
15	Although our plans state 'coordinates in themselves cannot be used to re-establish corners...' I feel there is a percentage of the public that doesn't understand the possible issues that could arise. I can't think of an instance where this went beyond an inquiry and explanation.	12/13/2019 4:53 PM
16	People assuming their phones or handheld GPS can give them the location of their property corners and using this to get in arguments with their neighbours.	12/13/2019 4:46 PM
17	differing datums	12/13/2019 4:42 PM
18	Majority don't know what they are doing,	12/13/2019 4:42 PM
19	N/A	12/13/2019 1:38 PM
20	layout of coordinates using hand held gps units	12/10/2019 5:26 PM
21	The public uses them in conjunction with Google Earth coordinates.	12/8/2019 12:22 PM
22	n/a	12/7/2019 3:10 PM
23	Lately, coordinates have been requested by constr. companies (sometimes aggressively) for their "surveyor" and/or excavator. On few occasions a request for prop. corner coords. was placed by a private owners, for fence placement purposes.	12/6/2019 7:23 PM
24	I have had people trying to establish boundaries from their cell phones and their cheap GPS devises. I have also had people shocked by the cost of a survey and their response is "don't you just go out there and GPS it." Then you have to explain that you can't establish or retrace boundaries with GPS and the whole GPS thing is making surveys more expensive for the public. We warned the Integration Committee that would this happen and nobody listened to us.	12/6/2019 2:43 PM
25	N/A	12/6/2019 3:06 AM
26	/	12/6/2019 12:33 AM
27	None, except for some integrated plans still using Astro bearing reference.	12/6/2019 12:18 AM

28	Rural land owners with GPS trying to reset corners using coordinates	12/5/2019 8:23 PM
29	Not sure on the definition of misuse...if you mean tech firms and public using coordinates to calculate and determine boundaries, then yes	12/5/2019 7:34 PM
30	They were not serious problems that couldn't be resolved, but on two occasions we were asked why the co-ordinates shown on our plan differed from the co-ordinates that a layout contractor was reading on his gps receiver. It reminded me of our seemingly contradictory note (contradictory in the public's eye that is) that we attach to our published co-ordinates stating "co-ordinates, in themselves, cannot be used to establish boundaries or corners on this plan".	12/5/2019 7:07 PM
31	No real problem; we use coordinates from other plans sometimes but always we verify them by located the survey bars just like you would on any survey	12/5/2019 7:00 PM
32	n/a	12/5/2019 6:55 PM
33	I am aware that technical staff at a conservation authority were using co-ordinates published on a plan and a hand-held GPS to determine where its boundaries were located in addition to the corners of adjoining, privately held, properties	12/5/2019 6:20 PM
34	handheld gps & misinterpretation	12/5/2019 5:41 PM
35	I see site plan using integration data without OLS field and documentary investigation. Layout/technical construction crews are using the reference plan information as the boundary and laying out buildings, fences without a legal survey. Hierarchy of evidence not being used. Land Title does not guarantee extent. I've found old post and wire fence one foot deep, not mentioned in first application reference plan. There's only one boundary.	12/5/2019 5:31 PM
36	No experiences as such, but the possibility of people using the coordinates especially if some construction or adjacent planning is involved, could cause some liability issues.	12/5/2019 5:22 PM
37	Contractors are using the ORP points to calibrate their GPS equipment for construction layout when we have provided a Scaled Ground. Our Scaled Ground point coordinates are different than the Grid Coordinates shown on a Reference Plan.	12/5/2019 5:16 PM
38	Not yet	12/5/2019 5:13 PM
39	People trying to reestablish their boundaries using their handy dandy Canadian Tire gps unit	12/5/2019 5:00 PM
40	Some people request coordinates and think that by entering them in handheld GPS they can survey the property and no surveyor need in the future:). The other problem I encountered is when survey had wrong coordinates on the plan, so one can imagine what public can use them for.	12/5/2019 4:58 PM
41	The usual issues with private land owners, logging companies and/or technical firms with just enough knowledge to be dangerous and convinced that their handheld GPS or their phone is sufficient to delineate boundaries on the ground for themselves and others.	12/5/2019 4:52 PM
42	Engineering consultants trying to lay out boundaries.	12/5/2019 4:49 PM
43	Nothing unique to coordinates. There are simpler parts of a plan that are already misused.	12/5/2019 4:47 PM
44	lay persons trying to determine their boundary position /monuments in the ground by hand-held GPS devices	12/5/2019 4:45 PM
45	people want to save money, they want to survey / measure lines themselves, they will often do strange things in the process, typically not a big deal	12/5/2019 4:42 PM
46	no problems encountered with public misuse of coordinates.	12/5/2019 4:40 PM
47	I am not aware of misuse of the coordinates; but that doesn't mean it is not happening.	12/5/2019 4:27 PM
48	n/a	12/5/2019 4:26 PM
49	The public places reliance on the coordinate values and believes that they can establish property corners using their non-survey grade GPS.	12/5/2019 4:24 PM
50	N/A.	12/5/2019 4:24 PM
51	none for now	12/5/2019 4:21 PM
52	public uses handheld GPS	12/5/2019 3:43 PM
53	N/A	12/5/2019 2:29 PM
54	Clients trying to run their own lines using our coordinates.	12/4/2019 10:29 PM

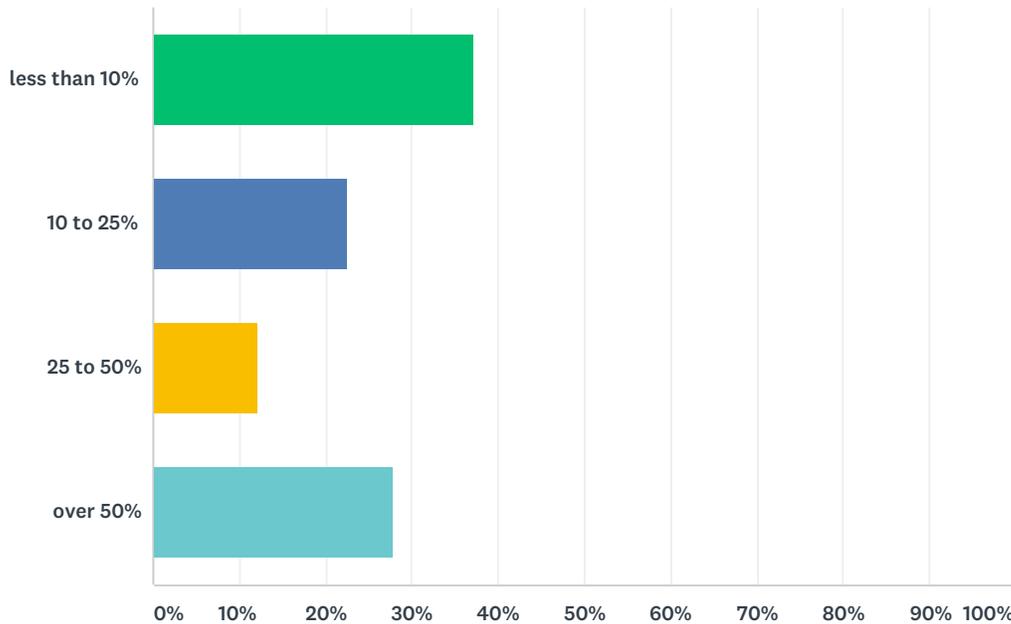
55	none	12/3/2019 4:55 PM
56	N/A	12/3/2019 4:05 PM
57	Engineers thinking that they can reproduce boundary lines based on coordinates.	12/3/2019 3:36 PM
58	N/A	12/3/2019 2:56 PM
59	No problems.	12/3/2019 2:47 PM
60	Not a major problem, but a client tried to use his phone to locate the corners and was not able to do so. I explained to him about the accuracy of the GPS on his phone and he seemed satisfied.	12/3/2019 1:51 AM
61	Wrong co-ordinate systems used.	12/2/2019 7:09 PM
62	n/a	12/2/2019 6:32 PM
63	Misidentifying coordinate reference frame while attempting to use to identify property boundaries	12/2/2019 4:41 PM
64	N/A	12/2/2019 4:31 PM
65	person calling and claiming the coordinates on the plan are wrong when trying to layout their property corner themselves.	12/2/2019 3:24 PM
66	Clients calling us and asking for co-ordinates for the rest of the corners. Especially in rural areas	12/2/2019 3:10 PM
67	Clients wanting to locate their property limits using WalMart personal hand held GPS units.	12/2/2019 2:58 PM
68	Not applicable.	12/2/2019 2:40 PM
69	I say yes, but expect it was not a result of coordinates published on the dwg, but rather when i am contractually bound to provide a UTM dwg.	12/2/2019 2:29 PM
70	Everyone with a handheld GPS	12/2/2019 2:17 PM
71	Weekend warriors using handheld GPS to re-establish corners, causing issues with neighbours.	12/2/2019 1:42 PM
72	N/A	12/2/2019 1:40 PM
73	N/A	12/2/2019 1:01 PM
74	Using hand held GPS to try to locate their corners.	12/2/2019 12:53 PM
75	n/a	12/2/2019 3:35 AM
76	none	12/1/2019 9:48 PM
77	NONE	12/1/2019 7:11 PM
78	Use by Architects, Engineers, Planners or Architectural design firms who are not knowledgeable enough about the differences in coordinate systems and relation to different datums has been problematic and only come to light when problems with setbacks and elevations are noted.	12/1/2019 6:54 PM
79	N/A	12/1/2019 5:21 PM
80	Not understanding the data accuracy	12/1/2019 1:57 PM
81	Attempts to locate property corners by hand held or cellphone GPS	11/30/2019 7:21 PM
82	n/a	11/30/2019 6:18 PM
83	Misunderstanding of datum by user	11/30/2019 3:34 PM
84	Not understanding coordinate systems	11/30/2019 12:56 PM
85	Construction and engineering companies attempting to use plan coordinates for layouts of property corners, using incorrect frames of reference, holding coordinates as gospel, mixing coordinates from different frames of reference and then using for layout, general public confusion ad nauseum ...	11/30/2019 2:54 AM
86	None	11/30/2019 2:04 AM
87	No problems	11/29/2019 11:43 PM
88	n/a	11/29/2019 11:19 PM
89	Na	11/29/2019 11:00 PM
90	I DO NOT KNOW OF ANY "PROBLEMS" AS SUCH USE IS USUALLY NOT KNOWN	11/29/2019 10:28 PM

91	NA	11/29/2019 10:26 PM
92	individuals not understanding how they are to be used	11/29/2019 10:03 PM
93	Property owner disagreed with the coordinates. Others wanted more coordinates.	11/29/2019 9:58 PM
94	N.a.	11/29/2019 9:42 PM
95	The only difficulties I've seen are clients that don't understand grid vs. ground coordinate systems and are utilizing AutoCAD files that are "at grid" but assuming they're "at ground"	11/29/2019 8:56 PM
96	land owners thinking that the coordinate is their corner, and that all corners have a coordinate assigned to them	11/29/2019 8:22 PM
97	No problems have arisen	11/29/2019 8:15 PM
98	Not misuse - more questions from layout companies of how to use the coordinates i.e. not understanding the difference between grid and ground coordinates. This can be a positive as it creates additional billable hours to prepare deliverables that are suitable for GPS control	11/29/2019 8:15 PM
99	Construction layout crews use coordinates without verification and/or localization	11/29/2019 8:11 PM
100	municipalities somehow have issue making our coordinates fit within their GIS mapping	11/29/2019 8:08 PM
101	I don't think the public uses it. I know that Teranet never seems to revise their mapping when new plans are deposited. The main problem we've encountered is that lay-out companies, Engineers - no one but surveyors - seems to realize their value.	11/29/2019 8:04 PM
102	a client tried to re-set coordinates using their phone.	11/29/2019 7:52 PM
103	misuse of the coordinates. Clients saying we are wrong then finding out that they are using a handheld gps or are using a UTM setting rather than an MTm published...the problems go on and on. Even worse when they are calculating their own coordinates from our two published points and not understanding between Nad 27 and Nad 83 and then doing layouts without checking into the original survey points.	11/29/2019 7:47 PM
104	None encountered	11/29/2019 7:42 PM
105	This is a silly question skewed to favour the idea that taking off the coordinates is a good idea. The public doesn't need to be protected from themselves.	11/29/2019 7:38 PM
106	Large contractors or municipalities can easily lay out property from co-ordinates shown on plans, and have done so. Unfortunately, they did not realize the difference between NAD83 original and CSRS was about a half a meter and projected another 500 meters based on that mistake and went the wrong way into the mayors brothers property.	11/29/2019 7:30 PM
107	Issues can be caused by two main factors: 1) Inadequate use of listed coordinates by the public; and 2) Insufficiently accurate/wrongful coordinates listed on a plan. In both cases, we need to take swift and comprehensive action to address.	11/29/2019 7:29 PM
108	I have had a number of clients inquiry about survey cost. They all talked about there are published coordinates on property corners. They all said that the survey cost is ridiculous and it only take 1 to 2 hours to get the survey done. I think there is a misconception from some of the general public.	11/29/2019 7:28 PM
109	only the occasional time when someone is trying to find the Property Corner with the Coordinates	11/29/2019 6:53 PM
110	N/A	11/29/2019 6:32 PM
111	MTM vs UTM. I don't believe there is regulation governing the use of projection on survey plans.	11/29/2019 6:24 PM
112	A homeowner building a fence to points he got using his handheld.	11/29/2019 6:20 PM
113	user of plan attempted to inverse between them using a handheld device and got confused.	11/29/2019 6:19 PM
114	Use by non-surveyors of coordinates to use gps to locate other features and boundary points	11/29/2019 6:19 PM
115	People telling us our survey is wrong because they get different values with there \$ 200 hand held GPS.	11/29/2019 6:18 PM
116	Clients trying to use them to lay out property corners	11/29/2019 6:15 PM
117	I have had people ask me for coordinates so they can go out and find their corners themselves	11/29/2019 6:13 PM
118	N/A	11/29/2019 6:12 PM

119	Despite not seeing it, laypeople with inadequate GPS units and half knowledge must be 'surveying' their land.	11/29/2019 6:07 PM
120	n/a	11/29/2019 6:07 PM
121	The public (and other professionals including engineers and architects) as well as some municipalities do not understand co-ordinate systems or how they are used.	11/29/2019 6:06 PM
122	Being accused of being incompetent. The public member did not understand MTM coordinates.	11/29/2019 6:06 PM
123	Technical firms (without a CofA) doing boundary retracement with the aid of coordinates.	11/29/2019 6:04 PM
124	Landowners disputing between positions produced by handheld autonomous GPS units.	11/29/2019 6:03 PM
125	Private owners using coordinates on the plan to locate property corners	11/29/2019 6:00 PM
126	using hand held devices to "layout" missing boundary corners	11/29/2019 6:00 PM
127	The publics lack of understanding of the purpose of the coordinates.	11/29/2019 5:59 PM
128	They get in the wrong hands!	11/29/2019 5:58 PM
129	NA	11/29/2019 5:56 PM

Q3 Many government organizations will still require coordinates on plans. Based on your experience, what percentage of plans do you think would still require coordinates even if they were made optional?

Answered: 287 Skipped: 9



ANSWER CHOICES	RESPONSES
less than 10%	37.28% 107
10 to 25%	22.65% 65
25 to 50%	12.20% 35
over 50%	27.87% 80
TOTAL	287

Q4 What format should be required to allow the exchange of coordinates between surveyors?

Answered: 232 Skipped: 64

#	RESPONSES	DATE
1	I'm unsure of what is being particularly asked, but I would suggest coordinates in a widely accepted Absolute Reference Frame (i.e. NAD 83 CSRS CBNV6., MTM projection) to make their use simpler and less dependent of "local" reference frames which may be hard/impossible to reproduce.	12/13/2019 11:35 PM
2	ASCII file	12/13/2019 10:22 PM
3	whatever suits your fellow Surveyors	12/13/2019 10:17 PM
4	A standard form similar to what we now show on plans....simply add it digitally to a copy of the final plan. Essentially a drawing "layer" to be toggled on/off	12/13/2019 10:10 PM
5	Something universally accepted	12/13/2019 9:41 PM
6	Utm	12/13/2019 8:53 PM
7	Ascii text, Point, Northing, Easting, Elevations, description.	12/13/2019 8:09 PM
8	Standard CSRS coordinates in csv format.	12/13/2019 8:05 PM
9	ECEF	12/13/2019 7:41 PM
10	no sure	12/13/2019 7:33 PM
11	Spreadsheet of point listing that comes along with the field notes	12/13/2019 7:21 PM
12	This question doesn't make sense.... need to be more specific. are you asking if they should be digitally stored, if so, is the question getting at the type of file it should be stored as? csv, txt, fbk... ??? is the question asking about emailing, online storage sites, the cloud???	12/13/2019 6:12 PM
13	Field notes and coordinate list show Surveyors what our coordinates are.	12/13/2019 6:02 PM
14	Ontario needs a standard digital survey plan submission specification - like BC, Alberta and Saskatchewan.	12/13/2019 5:57 PM
15	Registered or Deposited Plans Any plans where cords are required by Nav Canada	12/13/2019 5:46 PM
16	Excel	12/13/2019 5:30 PM
17	If surveyors are to exchange coordinates the values should be on a signed plan and the datum should be provided on the plan. If the coordinate is related to a network solution then the network information should also be provided as well as the date of the survey.	12/13/2019 5:18 PM
18	RPs should be listed on the plan. If not, they should be provided in a point file at no charge for georeferenced plans.	12/13/2019 5:17 PM
19	I believe that the coordinates should be on the plan. Not in an ascii or .CSV file sent as per request.	12/13/2019 5:17 PM
20	Whatever is agreed between the two surveyors..	12/13/2019 5:08 PM
21	.txt	12/13/2019 5:07 PM
22	Keep co-ordinates in UTM Scaled units	12/13/2019 5:06 PM
23	Format should not matter, but coordinates should be available in list form with full meta data (datum, accuracy). Coordinates for now are lowest on hierarchy of evidence.	12/13/2019 5:03 PM
24	We don't generally find ourselves providing coordinates to other surveyors. If we did, I think the information that we currently that we currently include on an integrated survey would suffice to accompany coordinates.	12/13/2019 4:57 PM
25	DXF files	12/13/2019 4:54 PM

26	My firm is in London. We work in UTM NAD 83 (CSRS) for most projects in the area. I believe it would only make sense to exchange this format. Although the City of London still wants projects for them related to NAD 83 (original).	12/13/2019 4:53 PM
27	text file and a google kmz file featuring the point and number. the google kmz file will confirm that the coordinates provided were those intended.	12/13/2019 4:52 PM
28	no preference.	12/13/2019 4:48 PM
29	I don't think the AOLS should be involved. Allow the professionals to determine the transfer of information themselves.	12/13/2019 4:46 PM
30	Digital file - excel, text or similar	12/13/2019 4:46 PM
31	AutoCAD dwg or ASCII file	12/13/2019 4:46 PM
32	Lat and Long	12/13/2019 4:42 PM
33	email, CAD files	12/13/2019 4:39 PM
34	PSRI	12/13/2019 1:38 PM
35	Field Notes in Plan Form. Plan showing main point numbers or control points with ties, coordinate listing and metadata (reference frame, datum, scale factor) in PDF or DWG format.	12/12/2019 12:14 PM
36	coordinates of control points with ties on the plan to ensure accuracy	12/11/2019 8:49 PM
37	ASCII	12/11/2019 12:03 PM
38	Special form with illustration, coordinates and other pertinent information approved by signing OLS.	12/10/2019 6:22 PM
39	I think that the current way that surveyors exchange project information between companies is fine. No reason to bring that information into public domain.	12/10/2019 5:26 PM
40	The most commonly adopted coordinates, either MTM or UTM	12/9/2019 9:43 PM
41	On plans?	12/9/2019 2:05 PM
42	A printout or digital word document of the point numbers and coords	12/9/2019 12:55 PM
43	Show coordinates on plan.	12/9/2019 12:06 AM
44	txt or ascii files kept with the project file (metadata)	12/8/2019 12:22 PM
45	DWG	12/7/2019 5:34 PM
46	ASCI File	12/7/2019 3:10 PM
47	txt, etc.	12/6/2019 7:23 PM
48	If coordinates are not shown on the plan there is no big need to exchange coordinates	12/6/2019 5:05 PM
49	electronic	12/6/2019 2:57 PM
50	Why not make it a simple request the way we used to do field notes. But then the association will set up a Provincial Co-ordinate Survey Index and charge us another \$1,000.00 a year to administer it.	12/6/2019 2:43 PM
51	I think coordinates on plans should not be optional	12/6/2019 1:20 PM
52	On-Line database - We are in the 21st Century	12/6/2019 1:02 PM
53	Digital	12/6/2019 3:06 AM
54	Text file	12/6/2019 12:33 AM
55	Simple text, datum, EPOCH,projection,unique_point_ID,x,y,(z),error ellipses,date,OLS-firmname	12/6/2019 12:27 AM
56	PSRI should have all coordinates from all plans free for surveyors to browse even if coordinates are not made optional	12/6/2019 12:18 AM
57	None. Instead, mandate by regulation, that all plans must be integrated either to UTM or MTM including non LRO plans like SRPRs. Any work requiring an SRD sticker should be integrated to bring a consistent bearing orientation to our profession. In my opinion, we look foolish by not producing all plans in metric and grid bearings.	12/6/2019 12:18 AM

58	CSV	12/5/2019 11:39 PM
59	Standard text ASCII type with space or comma delimited	12/5/2019 11:18 PM
60	Real world coordinates	12/5/2019 8:23 PM
61	I think the surveyors should be mature enough and professional enough to sort this out themselves instead of being prescribed by government or the AOLS. Different circumstances dictate different formats.	12/5/2019 7:34 PM
62	I've never been asked by another surveyor to provide co-ordinates. We sometimes will provide digital (cad) files when required, such as when working on an abutting development project being done by another surveyor (so that are boundary lines match).	12/5/2019 7:07 PM
63	type of coordinate system used and N,E	12/5/2019 7:00 PM
64	a PNEZD (point/northing/easting/elevation/description) comma-separated values file with datum and coordinate system of the points being specified in the filename. For example, "points_HT2_0_CSRS2010_UTM17.csv"	12/5/2019 6:55 PM
65	The format options should either be: - text/ascii - csv -kmz format	12/5/2019 6:26 PM
66	I do not know	12/5/2019 6:20 PM
67	None... coordinates on the face of plans only.	12/5/2019 5:54 PM
68	There should be no "requirement"	12/5/2019 5:41 PM
69	Version of plan should be prepared with coordinates as currently required on plans and the copy submitted to the AOLS should have these notes to show integration.	12/5/2019 5:39 PM
70	Not sure	12/5/2019 5:38 PM
71	DWG, why JDBarnes using DGN? Ask them to switch to AutoCAD.	12/5/2019 5:31 PM
72	NAD83 (CSRS)	12/5/2019 5:26 PM
73	1)The drawing file if it is drawn per the georeferenced points. 2) Simply a copy of the adjustment report of the georeferenced points. 3) The survey report for the job.	12/5/2019 5:22 PM
74	Not sure what this is asking. (PNEED) ASCII or Excel files	12/5/2019 5:16 PM
75	Text file with Coordinates.	12/5/2019 5:13 PM
76	not sure	12/5/2019 5:00 PM
77	Good question	12/5/2019 4:58 PM
78	Vague question. Format??	12/5/2019 4:55 PM
79	they are either integrated or they are not	12/5/2019 4:53 PM
80	DWG files and/or sketch and an Excel file.	12/5/2019 4:52 PM
81	Spread sheet	12/5/2019 4:49 PM
82	Free	12/5/2019 4:47 PM
83	Coordinates on a plan. There's no need to create a new system.	12/5/2019 4:47 PM
84	it shouldn't matter, the due diligence should be on the surveyor to determine the boundaries based on all evidence found in the field and coordinates reviewed/re-established from their own field evidence/records.	12/5/2019 4:45 PM
85	Excel Spreadsheet	12/5/2019 4:45 PM
86	Maybe an excel file with PT#, N,E,Description	12/5/2019 4:45 PM
87	.asc file	12/5/2019 4:42 PM
88	CAD or CSV file, all our work (field and office) is done in grid to begin with	12/5/2019 4:41 PM
89	With the current requirements I believe that the current integration table format is an appropriate method to show and provide geo-referencing information on plans.	12/5/2019 4:40 PM
90	Paper	12/5/2019 4:40 PM

91	The best format remains the coordinate table requirement. Making this optional seems like a step backwards.	12/5/2019 4:37 PM
92	Text or Excel file	12/5/2019 4:27 PM
93	coordinate list in .CSV format. a point list is just a hassle to input dozens or hundreds or coordinates to verify the distances between points.	12/5/2019 4:27 PM
94	coordinates shouldn't be exchanged between surveyors	12/5/2019 4:25 PM
95	The requesting surveyor should ask for 2 particular points.	12/5/2019 4:24 PM
96	NAD83 CSRS UTM	12/5/2019 4:24 PM
97	coords on plans	12/5/2019 4:23 PM
98	COSINE coordinate values	12/5/2019 4:21 PM
99	None	12/5/2019 3:43 PM
100	txt file	12/5/2019 2:29 PM
101	PSRI. Indicate corners where ORPs are provide ORP table.	12/4/2019 10:29 PM
102	.CSV .TXT	12/4/2019 9:20 PM
103	Digital or hard copy.	12/4/2019 5:01 PM
104	coordinates should not be e-mailed to each other, a plan must be shown linking the coordinates to a iron bar	12/3/2019 4:55 PM
105	Digital text or spreadsheet file - should accompany the field notes. Perhaps CAD files in certain circumstances.	12/3/2019 4:05 PM
106	mutually agreed format.	12/3/2019 3:36 PM
107	Chart stating reference frame etc.	12/3/2019 2:56 PM
108	UTM or MTM	12/3/2019 2:47 PM
109	We need to know how the co-ordinates were derived. I cannot speak to network-derived co-ordinates, but I do not understand how they can deliver the accuracy required. We do post-processing with NRCAN's PPP service and notice a considerable difference between the initial co-ordinates acquired, and the rapid ones we receive a day afterwards. The final co-ordinates from the same service generally only deviate a small amount from the rapid ones.	12/3/2019 1:51 AM
110	Doesn't matter as I think having them on the plan is a good thing.	12/2/2019 6:32 PM
111	UTM/MTM grid in local projection	12/2/2019 4:53 PM
112	None	12/2/2019 4:41 PM
113	The existing format works fine.	12/2/2019 4:31 PM
114	A coordinate list and a point plan	12/2/2019 4:11 PM
115	Similar to field note request, surveyor should be arriving at their own co-ordinates, provides independent check on integration	12/2/2019 3:31 PM
116	pdf	12/2/2019 3:24 PM
117	All coordinate information and metadata must be provided	12/2/2019 3:16 PM
118	the format that we currently show on R-Plans MUST be input into PSRI.	12/2/2019 3:10 PM
119	Just a point listing.	12/2/2019 2:58 PM
120	Text file would work for me.	12/2/2019 2:40 PM
121	txt	12/2/2019 2:37 PM
122	keep it simple: an email with a text file attachment or a DWG with the points embedded.	12/2/2019 2:29 PM
123	Keep the current format	12/2/2019 2:20 PM
124	Whatever said surveyors agree on.	12/2/2019 2:17 PM
125	The same method for obtaining field notes.	12/2/2019 2:03 PM

126	?? (N,E) zone, adjustment	12/2/2019 1:42 PM
127	A wide variety since it is only two coordinates, from digital to scanned to an email listing them	12/2/2019 1:41 PM
128	PDF OR CAD FILE.	12/2/2019 1:33 PM
129	hard copy	12/2/2019 1:27 PM
130	Continue to show coordinates on the plans.	12/2/2019 1:19 PM
131	Email.	12/2/2019 1:01 PM
132	Not likely required if needed, just a list	12/2/2019 12:56 PM
133	UTM	12/2/2019 12:53 PM
134	Copy of plan showing the coordinates exchanged in same format as SRPR but at minimal cost since coordinates are of no value with regards to retracement of boundaries	12/2/2019 11:55 AM
135	csv file	12/2/2019 3:35 AM
136	NAD 83 Original only	12/1/2019 11:49 PM
137	Standardized email request	12/1/2019 9:48 PM
138	Keep the integration! What is the purpose of having a provincial wide index if we are now making integration optional????	12/1/2019 7:11 PM
139	open communication between surveyors and the provision of a shared server or access to file sharing ftp sites which would allow for a relatively easy method of providing the required information.	12/1/2019 6:54 PM
140	If coordinates listings are used, the the accuracy of the data also had to be listed, and also how the data was obtained	12/1/2019 1:57 PM
141	Point plans and coordinate listings	11/30/2019 7:21 PM
142	it's not so much that coordinates are posted, but that the plan is coordinated, so that they can insert into their data base or GIS. so usually the CAD is fine or possibly DXF	11/30/2019 6:18 PM
143	Not sure they have to be? For what purpose?	11/30/2019 3:34 PM
144	Between surveyors should not matter	11/30/2019 12:56 PM
145	What is the need for the exchange of coordinates. Coordinates are fourth in the hierarchy list of evidence and do not establish corners. Surveyors should be able to do that on their own without having a regulation in place.	11/30/2019 3:14 AM
146	signed waivers between firms prior to release of coordinates, which should be released with both a point sketch and corresponding coordinate list. mandatory frames of reference (vertical, horizontal, epoch, combined scale factor) need to be specified upon release of coordinates	11/30/2019 2:54 AM
147	Similar to cosine reports	11/30/2019 2:04 AM
148	Excel	11/30/2019 1:26 AM
149	unsure of what best format would be	11/30/2019 12:17 AM
150	Having coordinates on the face of plans must continue. Encouraging or requiring free exchange between surveyors is a given of course.	11/29/2019 11:43 PM
151	same as requesting field notes	11/29/2019 11:19 PM
152	Keep same	11/29/2019 11:00 PM
153	Coordinates should be left on the plan. If you want to make it "harder" for some people to "abuse" it, then only put one coordinated point. That coordinate can be to a published control point way off site. One grid coordinate with a grid bearing is all that is needed for coordinating a entire plan.	11/29/2019 10:58 PM
154	NONE	11/29/2019 10:28 PM
155	As part of field notes	11/29/2019 10:26 PM
156	coordinate list - text file	11/29/2019 10:03 PM
157	Provide them in the same manner as field notes.	11/29/2019 9:58 PM

158	Cad	11/29/2019 9:42 PM
159	I think coordinates should be shown on the plan.	11/29/2019 9:39 PM
160	A letter listing the coordinates and a description of which points on the plan, i.e. southeast corner of Part 1 Plan X marked by SIB(XXXX).	11/29/2019 9:29 PM
161	.CSV	11/29/2019 9:17 PM
162	points file	11/29/2019 8:56 PM
163	Generally we're not exchanging coordinate lists. If we did, the datum and projection information should accompany coordinates. I think what we currently show on plans is sufficient.	11/29/2019 8:56 PM
164	raw, digital	11/29/2019 8:42 PM
165	Crazy talk to first hide cords and then exchange	11/29/2019 8:27 PM
166	LandXML, ASCII	11/29/2019 8:26 PM
167	Put them on the plan....ORP!	11/29/2019 8:26 PM
168	UTM(CSRS)	11/29/2019 8:22 PM
169	Exchange of coordinates need to be explicit, thus the actual values are to be in a textual format and endorsed by the OLS publisher of said coordinates where the location is clearly identifiable on a geographically referenced sketch, map or plan.	11/29/2019 8:15 PM
170	Field notes - anything additional to field notes would be tantamount to developing a system to replace a system that already works.	11/29/2019 8:15 PM
171	It shouldn't be required at all	11/29/2019 8:11 PM
172	I would eliminate coordinates being shown on plans all together.	11/29/2019 8:08 PM
173	Why do they need to be exchanged? Only the point file or CAD file would have them. I would leave it up to the two corresponding parties to work out what format. This will avoid needless conversions.	11/29/2019 8:05 PM
174	I don't believe Surveyors should exchange coordinates. Our job is to get other surveyors notes and then independently record our own field coordinates. Giving away coordinates just allows other surveyors the ability to skip doing their own field work.	11/29/2019 8:04 PM
175	csv file	11/29/2019 8:01 PM
176	ON FACE OF PLAN	11/29/2019 7:54 PM
177	Why do I need to exchange coordinates with other surveyors?	11/29/2019 7:52 PM
178	Doesn't matter as long as we know their origins	11/29/2019 7:47 PM
179	As per current regulations	11/29/2019 7:42 PM
180	Stupid question. Keep them on plans.	11/29/2019 7:40 PM
181	Loaded question, which unpacks like this: -what format (plain text with comma separated values, datum and epoch, or something else that can be worked out etc.); -should be required (Excuse me, what makes it mandatory to exchange coordinates between surveyors?) -to allow (Excuse me, since when am I not allowed to exchange data?) -between surveyors (Excuse me, but why would I want someone else's coordinates? They are at the bottom of the hierarchy of evidence and I would prefer observations and field notes so I can reliably calculate my own results). -I sure hope every surveyor is collecting, storing and processing observations, and not just spitted coordinates out of their field equipment.	11/29/2019 7:39 PM
182	Coordinates and metadata.	11/29/2019 7:38 PM
183	It is really quicker to find the bars with a metal detector in most cases. Playing around in CAD just takes up needless time and the original monuments govern anyways. Fence ties are far more helpful to find bars than co-ordinates, but if you are going to do it, UTM or MTM are best, as is currently the case.	11/29/2019 7:30 PM
184	Searchable PDF and KML/KMZ	11/29/2019 7:29 PM
185	1. Field coordinates txt file	11/29/2019 7:28 PM
186	cad	11/29/2019 7:07 PM

187	No preference as long as recognized format is stated	11/29/2019 7:04 PM
188	Csv files	11/29/2019 7:04 PM
189	Just leave then on the plan	11/29/2019 6:59 PM
190	georeferenced .dwg file of basic linework / corners	11/29/2019 6:58 PM
191	NAD 83 CSRS	11/29/2019 6:53 PM
192	Directly on the plan with the appropriate metadata (datum, epoch, etc) as currently required. This will provide the most reliable method to ensure the coordinates are preserved for future users.	11/29/2019 6:52 PM
193	utm coordinates	11/29/2019 6:37 PM
194	CSRS	11/29/2019 6:37 PM
195	Have them shown on the plans	11/29/2019 6:35 PM
196	Stick with publishing the co ordinates	11/29/2019 6:35 PM
197	When a surveyor requests notes from us we automatically include the coordinate listing as well and I think that would be sufficient going forward.	11/29/2019 6:33 PM
198	CSRS (2010) Northings; Eastings	11/29/2019 6:32 PM
199	AN ASCII LISTING, PLUS THE ASSOCIATED FIELD NOTES. FOR LARGER DATA SETS, LIKE AN M-PLAN, PERHAPS A WORKING COPY OF THE PLAN WITH A LARGE PERCENTAGE OF POINT NUMBERS SHOWN ON.....BUT MAYBE NOT ALL INTERMEDIATE POINT NUMBERS WOULD BE NEEDED....THEY COULD THEN BE FOUND BY THE RECIPIENT USING THE FILE.	11/29/2019 6:30 PM
200	It's the 21st century for fucks sake. we should be showing coordinates all major corners	11/29/2019 6:26 PM
201	CSV or Text Format with detailed descriptions as to the datum specs and realizations/ epochs. Scale Factors.	11/29/2019 6:24 PM
202	A text file?	11/29/2019 6:23 PM
203	either CSRS, MTM or NAD '83 original	11/29/2019 6:22 PM
204	Txt files	11/29/2019 6:20 PM
205	pdf	11/29/2019 6:19 PM
206	Plan images with the coordinates illustrated as they are currently.	11/29/2019 6:19 PM
207	Point list with notes.	11/29/2019 6:18 PM
208	On paper, as a text/CSV file, or as a CAD file	11/29/2019 6:17 PM
209	A coordinate file with the applicable datum and epoch provided	11/29/2019 6:15 PM
210	we should be required to retain our coordinate lists indefinitely and in a "readable" format. This dinosaur likes paper copies, but pdf will suffice.	11/29/2019 6:13 PM
211	Free exchange by email within a reasonable timeline (~5 business days?)	11/29/2019 6:12 PM
212	if it on the Plans then you don't have to.	11/29/2019 6:12 PM
213	Clear and concise data of how the integration occurred under the regulations to achieve the posted accuracy level	11/29/2019 6:10 PM
214	We do not exchange coordinates often. But when that happens, a hard copy print out is provided	11/29/2019 6:08 PM
215	Electronic and any format, paper if that fails.	11/29/2019 6:07 PM
216	on face of the plan. I'm not suggesting in other forms as there would be extra effort to exchange/dig such information to other surveyors. so I'd rather to show it on the original plans. easy to see by everyone at the time of completing a survey.	11/29/2019 6:07 PM
217	ASCII and Drawing	11/29/2019 6:06 PM
218	a text file	11/29/2019 6:06 PM
219	Page of Coordinates appended with field notes.	11/29/2019 6:04 PM

220	A Field in iLookabout where staff can reference monumented part corners to provide 2D coordinates that any surveyor can find when searching for records. This prevents potentially multiple requests for the same coordinates by providing one place to look and immediate retrieval of coordinated part corners. There would be no backlog of plans to import so long as this requirement for the PSRI was implemented at the same time as not needing coordinates on plans.	11/29/2019 6:03 PM
221	Why would the Association dictate this?	11/29/2019 6:00 PM
222	none	11/29/2019 6:00 PM
223	simple text or csv file, ideally a standard format that all surveyors would be required to use.	11/29/2019 6:00 PM
224	digital	11/29/2019 6:00 PM
225	TEXT FILE	11/29/2019 5:59 PM
226	First standardize the system of use. Province wide. Including all municipalities and cities....	11/29/2019 5:59 PM
227	none, coordinates should be exchanged unless last resort	11/29/2019 5:58 PM
228	.TXT OR .CSV - should be discussed between surveyors	11/29/2019 5:58 PM
229	Anything would be better than the current system of exchanging field notes	11/29/2019 5:56 PM
230	CSV, txt	11/29/2019 5:56 PM
231	no specific format	11/29/2019 5:55 PM
232	UTM CSRS	11/29/2019 5:54 PM

Q5 If coordinates are not required on plans, how should we ensure coordinates are maintained and available into the future (i.e., what should surveyors have to maintain)?

Answered: 231 Skipped: 65

#	RESPONSES	DATE
1	Similarly to now, all surveys should have their records maintained. Surveyors should have them and be able to extract the necessary coordinates when required.	12/13/2019 11:35 PM
2	A detailed record of the method of Geo-referencing and coordinate system used	12/13/2019 10:22 PM
3	to be discussed	12/13/2019 10:17 PM
4	Simplest method is just to show them on plan, but if that changes, I really don't know. As per previous answer, I feel the same coordinate info should be required as a separate layer of info in case needed??	12/13/2019 10:10 PM
5	If coordinates aren't required on plans, what public interest is achieved in obtaining them and keeping them locked in a surveyors' file. If you want to drop integration from the plans, get rid of the coordinates entirely entirely. I charge for GPS receivers and processing roughly \$800 to \$1000 per job. What benefit is received for this cost?	12/13/2019 9:41 PM
6	I think coordinates should be maintained on plans	12/13/2019 8:53 PM
7	Have a private site for surveyors can access it.	12/13/2019 8:09 PM
8	A database by geographic reference	12/13/2019 8:05 PM
9	ECEF	12/13/2019 7:41 PM
10	At this point in time I do not think the surveyor needs maintain any coordinates. The plan shows the information required for retracement.	12/13/2019 7:33 PM
11	GPS data and spreadsheet of point listings along with field notes	12/13/2019 7:21 PM
12	You Couldn't	12/13/2019 6:46 PM
13	There is no question in my mind that surveyors data should be held securely at some central system. An archival system that is maintained either by the association or the government and can be accessed remotely at any time. moving forward, it is in the association's best interest, members best interest, and the public's best interest to maintain the storage of coordinates and all survey data. Surveyor's should be obligated to submit their data to this central storage system for safe keeping.	12/13/2019 6:12 PM
14	Have it in the regulations that it is still a requirement to integrate surveys, just not show them.	12/13/2019 6:02 PM
15	Coordinates should continue to be required on survey plans.	12/13/2019 5:57 PM
16	Archives of CAD files or text files with points/coordinates	12/13/2019 5:54 PM
17	If they are not needed on a survey then they are not needed to be measured. Surveys Completed by GPS will always have coordinates as a part of the data collection, but really can these be trusted?	12/13/2019 5:46 PM
18	Not sure	12/13/2019 5:30 PM
19	No answer	12/13/2019 5:18 PM
20	No comment - Coordinates should be shown on the plan.	12/13/2019 5:17 PM
21	Exactly my point. This is not an easy thing to do. I suppose surveyors could be required to create a 'coordinate plan' similar to what they are already doing and leave the coordinates off for deposit.	12/13/2019 5:17 PM
22	Survey Review Department can verify the existence of coordinates.	12/13/2019 5:08 PM
23	Field Notes	12/13/2019 5:07 PM

24	We complete all surveys in UTM grid. There is a lot of benefit of connectivity to other surveys in the area. I think that all surveys should be in UTM grid.	12/13/2019 5:06 PM
25	Coordinates should not be removed from plans. Passive control tied to the care is more important now with the plethora of horizontal and vertical datums.	12/13/2019 5:03 PM
26	In my experience, the only coordinates required on plans are ORP's SCP's and in Toronto, the corners of the property. Provided caveats regarding the use of coordinates shown on plans are included, I don't see the harm. If we're considering not portraying integration information on the plans, we would need to identify that this information is considered a part of the permanent record that surveyors need to maintain regarding their surveys and that it is information that must be provided to fellow members on request	12/13/2019 4:57 PM
27	None	12/13/2019 4:54 PM
28	unsure	12/13/2019 4:53 PM
29	currently it is practice of virtually all OLS' to print and electronically store coordinates as part of a file. It really is a simple existing process. A enhancement to the current sharing of information would be the mandatory inclusion of the utm coordinate file related to the field notes and specify the datum and derivatiomm method(connection to existing control points or ppp)	12/13/2019 4:52 PM
30	unless I am mistaken, our current standards dictate this sufficiently for us. we use to use local coordinates with our sites but as we got into GPS more and more, we used the NAD83 coordinates.	12/13/2019 4:48 PM
31	The expectation should be that all surveys are geo-referenced and surveyors need to be able to produce the information to demonstrate the geo-referencing	12/13/2019 4:46 PM
32	Surveyor's should have to do all legal surveys in a standard UTM format and keep the coordinate file in their records. If a Government body requires coordinates for their LIS, we could supply that. Surveyor's should be required to keep the standard UTM coordinates for exchange with other surveyors and for mapping purposes in the survey records index.	12/13/2019 4:46 PM
33	Get more educated	12/13/2019 4:42 PM
34	CAD files for their own records	12/13/2019 4:39 PM
35	Field file	12/13/2019 4:38 PM
36	copy of plan and coordinates filed with PSRI	12/13/2019 1:38 PM
37	Initially all surveys should print out field notes in plan form showing point numbers along with coordinate listing. However searching for this information in the future could be long, cumbersome and expensive, both for the surveyor who has the information and the surveyor requesting it. This could be done more efficiently by storing a DWG file, with a polygon of the subject parcel and lines representing ties to evidence used to establish the boundaries in the PSRI. Coordinate listing would not be necessary. Only C of A's would have access to the PSRI.	12/12/2019 12:14 PM
38	they should be treated as a required source of documentation that needs to be retained with every job	12/11/2019 8:49 PM
39	Submissions to a provincial database similar to PSRI or part of the PSRI	12/11/2019 12:03 PM
40	Listing of coordinates, illustration of location and other pertinent (projection etc) information to be able to re-establish	12/10/2019 6:22 PM
41	Surveyors should maintain all their records in accordance with our professional standards	12/10/2019 5:26 PM
42	digital files	12/9/2019 9:43 PM
43	Do not know...	12/9/2019 2:05 PM
44	It's a standard/regulation certified within the certificate	12/9/2019 12:55 PM
45	coordinates kept the same way field notes or kept	12/8/2019 12:22 PM
46	CAD DRAWING ON GRID. THIS HAS BEEN A STANDARD IN THE CAYMAN ISLANDS SINCE THE 1970s	12/7/2019 5:34 PM
47	Just show on the plan.	12/7/2019 3:10 PM
48	Resurvey	12/6/2019 7:23 PM

49	Surveyors can maintain coordinates in their files. There is no big need to provide coordinates to any one except the original client	12/6/2019 5:05 PM
50	part of the field notes	12/6/2019 2:57 PM
51	I don't see the need for the geo referencing of plans on most reference plans unless asked by the client. It takes longer to complete a plan and adds a tremendous cost to the client who is asking why are these surveys so expensive.	12/6/2019 2:43 PM
52	see above	12/6/2019 1:20 PM
53	On Line database	12/6/2019 1:02 PM
54	Unsure	12/6/2019 3:06 AM
55	Government duties	12/6/2019 12:33 AM
56	It is a standard of practice to maintain and keep field notes and calculations and make them available to other OLS. Property corners used as evidence on the plan.	12/6/2019 12:27 AM
57	They should be required, so maintain as-is	12/6/2019 12:18 AM
58	Coordinates on our plans are another form of checking between plans by different Surveyors. Confirms equipment is working/setup correctly. A field check by crew is easily made in the field. Would not like to see this become optional, rather see it become mandatory.	12/6/2019 12:18 AM
59	Should have the CAD drawing files used to make the plans.	12/5/2019 11:18 PM
60	Internal control on all jobs	12/5/2019 8:23 PM
61	a plan or drawing with relative geometry that works is all that is required. Let the user take today's technology and rotate, scale, translate into the coordinate system of their choosing. Any survey business I have been apart of in the last 2 decades keep digital files thus maintaining the coordinates of the survey...	12/5/2019 7:34 PM
62	I don't think a surveyor should be burdened with the task of providing co-ordinates if there is no specific request for them, such as when providing services to anyone other than a specific government agency that requires them, especially when there is no remuneration for it. Most of the work that surveyors do is for the public, and most survey work related to land development does not require co-ordinates (many municipalities do not require them). The Canadian Geodetic Survey maintains (and periodically adjusts) co-ordinate data and hopefully ensures they will be available into the future. If it is continued that the surveyor is required by legislation to provide co-ordinates (the purpose of which and or people/organizations benefiting from this, and why surveyors should be providing this benefit, can be argued) on deposited or registered plans, it can be done in a different manner so that the co-ordinates are not made public. One example is by a separate form that is submitted with the plan, similar to the copy of the deposited or registered plan containing the AOLS Sticker.	12/5/2019 7:07 PM
63	All our work is integrated into coordinate system we use NAD 83 UTM CSRS. We are for integrated surveys. We are against this change; we feel by having the integrated survey requirement in place keeps all Ontario Surveyors using one system and more in tune with integrated requirements from Municipalities, government agencies and our changing world. Do not want to go back to Astronomic Bearings and plans in feet. Looked at a plan from another Surveyor last week, it was integrated but in feet??	12/5/2019 7:00 PM
64	A standardized geodatabase with explicit datum and coordinate system.	12/5/2019 6:55 PM
65	If coordinates are no longer required on plans, is it even possible to maintain and have them available into the future? We already see a growing number of field notes / records disappearing as surveyors retire in the past and with an aging profession, I do not see this issue reducing.	12/5/2019 6:26 PM
66	Ties to known control monuments with separately published values	12/5/2019 6:20 PM
67	SRD already has the tools to assure records are properly maintained.	12/5/2019 5:54 PM
68	No requirement other than existing.	12/5/2019 5:41 PM
69	I think the surveyor should be required to provide the coordinates with the field notes .	12/5/2019 5:39 PM
70	Not sure	12/5/2019 5:38 PM
71	Have CAD drawing and coordinates print out.	12/5/2019 5:31 PM
72	no idea	12/5/2019 5:26 PM

73	1) The job file should include the coordinates and method, datum, etc., which should be done anyway. The legend of the plan should identify which corners were used for the georeferencing, even without coordinates. Then the SRD can request the coordinates of those points during a review, as well as other surveyors. No other persons would be able to misuse what they cannot see or get.	12/5/2019 5:22 PM
74	We store a Points file at the end of every job in ASCII comma delineated (PNEED) format.	12/5/2019 5:16 PM
75	Surveyors are to share the coordinates free of charge which includes a closure between the SCP/ORP and atleast 1 line segment on the boundary. The closure loop can be closed with a line drawn between the two SCP/ORP.	12/5/2019 5:13 PM
76	A coordinate listing for SRD submitted along with the plan.	12/5/2019 5:00 PM
77	We do maintain coordinates regardless	12/5/2019 4:58 PM
78	Coordinate values and raw data files....	12/5/2019 4:55 PM
79	why would we	12/5/2019 4:53 PM
80	The same information they now save. They may just have to add a few items to their records for each job.	12/5/2019 4:52 PM
81	Within the project file at the OLS office	12/5/2019 4:49 PM
82	GIS registry. But then, that could be misused, like any other system we might initiate.	12/5/2019 4:47 PM
83	a geo-referenced (GIS based) online portal seems to be the way of the future?	12/5/2019 4:45 PM
84	Table within drawing but not on face of plan.	12/5/2019 4:45 PM
85	As all of our plans are coordinated these points are included in each individual file.	12/5/2019 4:45 PM
86	if plans are to be coordinated, then coords should be on plan or forget about the experiment of coords	12/5/2019 4:42 PM
87	a CAD file showing integrated polygon of PART on an R-Plan for example, or M-Plan boundary	12/5/2019 4:41 PM
88	If coordinates are not required on the face of a plan, then the plan submission should include a digital format (geo-referenced shape or Cadd file) that will allow to determine the location of the surveyed parcel(s) for Land Registry Offices to update parcel mapping accurately.	12/5/2019 4:40 PM
89	paper print outs with sufficient metadata	12/5/2019 4:40 PM
90	Additional records to be maintained in hard copy format (paper or PDF) as field notes are currently maintained.	12/5/2019 4:37 PM
91	If coordinates are not required to be shown, integration of the plans will not be done. Surveyors won't incur the expense of integration if it isn't part of the final deliverable. Why should the client be expected to pay for that?	12/5/2019 4:27 PM
92	proper records. if they are not going to be required, then why do we need to keep them. aren't they embedded in the CAD file. oops.....i forgot some surveyors still do not know how to deal with this; so they will have to provide their side "dummy" file so we can get the coords.	12/5/2019 4:27 PM
93	coordinates for control/setup points on field notes	12/5/2019 4:26 PM
94	Teranet or other users could pay us for the information	12/5/2019 4:25 PM
95	Graphical data for surveys should be stored in a grid format for easy retrieval of coordinate values on points.	12/5/2019 4:24 PM
96	COSINE information of control used. Point listing.	12/5/2019 4:24 PM
97	not sure	12/5/2019 4:23 PM
98	????	12/5/2019 4:21 PM
99	The coordinates should be included or incorporated into the field notes	12/5/2019 4:19 PM
100	Trust professional surveyors to do this on their own without AOLS oversight and added administration cost/expense.	12/5/2019 3:43 PM
101	Still require that surveys be tied to published control using GPS, with this statement on the plan along with the published control that were checked into	12/5/2019 2:29 PM

102	Perhaps the AOLS via the PSRI could manage a GIS system similar to Canada Lands system in which surveyors submit polygons with ORPs shown.	12/4/2019 10:29 PM
103	If no coordinates on plan, they should be available free of charge in a database	12/4/2019 9:20 PM
104	Project files.	12/4/2019 5:01 PM
105	don't know	12/3/2019 4:55 PM
106	Print-outs of the final coordinates, which should become part of the permanent field notes. The CAD files should also include the final coordinates, preferably in grid format.	12/3/2019 4:05 PM
107	Internal standardization within the firm	12/3/2019 3:36 PM
108	maintained in a digital file	12/3/2019 2:56 PM
109	If there will be need for coordinate in the future each survey would need to be connected to either UTM or MTM.	12/3/2019 2:47 PM
110	Coord's. should be required on plans!	12/3/2019 1:17 PM
111	Co-ordinates are helpful in creating reasonably accurate maps over long distances (parcel fabrics in a municipality). They are also useful in establishing vertical and horizontal control in a project, but the source and method of acquisition should be noted and they should be referred to a reliable reference frame. I am not sure how best to answer this question.	12/3/2019 1:51 AM
112	Co-ordinate files.	12/2/2019 7:09 PM
113	Coordinated could be on a hidden layer.	12/2/2019 6:32 PM
114	Co-ordinates should be mandatory.	12/2/2019 4:53 PM
115	None. Coordinates have little to no value as evidence.	12/2/2019 4:41 PM
116	Coordinates should continue to be required on plans.	12/2/2019 4:31 PM
117	Nothing should change in the project file and surveyors requirement of integration -- which includes keeping raw GPS field data of observed survey points	12/2/2019 4:11 PM
118	Part of the field notes of the project	12/2/2019 3:31 PM
119	typical digital file storage	12/2/2019 3:24 PM
120	Coordinates on plans should be maintained.	12/2/2019 3:16 PM
121	See my answer to (4)	12/2/2019 3:10 PM
122	Hard Copy of Coordinate Point Listing kept in file. One Layer on CAD drawing that could be retrieved if required.	12/2/2019 2:58 PM
123	a digital database of some sort (text file, dwg file, etc.).	12/2/2019 2:40 PM
124	Marked on the plan.	12/2/2019 2:37 PM
125	Tough one. When responding to a request for notes/records, by default the returns should always include coordinates. Given how often I get raw data print-outs (never) this will be seen as a huge, onerous challenge by surveyors. Perhaps if the surveyor is "forced" to include coordinates with the "sticker plan" to the SRD, that would at least ensure that the work to create the coordinates is still being done.	12/2/2019 2:29 PM
126	keep current format	12/2/2019 2:20 PM
127	Coordinates don't mean anything! Evidence on the ground is all that matters. Did you pass Law I?	12/2/2019 2:17 PM
128	final coordinate information printed on original field note showing station	12/2/2019 2:03 PM
129	Back up COGO file. Prepare a list of final station numbers and a list of co-ordinates.	12/2/2019 1:42 PM
130	Ideally the requirement for coordinates would be removed completely and not required as part of the field work either. There would thus be no need for surveyors to have to maintain anything.	12/2/2019 1:41 PM
131	Do not make it an option to not have coordinates (ORP's and original control reference) included on plans this is a regressive step backwards.	12/2/2019 1:40 PM
132	A COORDINATE PRINTOUT IN THE FILE AS WELL AS SAVED TO THE FILE. PERHAPS ATTACHED TO THE SRI....MAKING MORE WORK FOR EVERYONE.	12/2/2019 1:33 PM

133	Digital file or at least a scan of a coordinate list and point plan for the project.	12/2/2019 1:27 PM
134	Some sort of secure data base where the coordinates could be submitted.	12/2/2019 1:19 PM
135	probably a file co-ord listing as we would file a closure.	12/2/2019 1:01 PM
136	Field notes.	12/2/2019 1:01 PM
137	Do we need to ensure that Co-ordinates are maintained?	12/2/2019 12:56 PM
138	PPK is easy to use	12/2/2019 12:53 PM
139	Surveyor to maintain his calculations and copy os the plan containing the coordinates	12/2/2019 11:55 AM
140	all downloads. Coordinates should be on the plan.	12/2/2019 3:35 AM
141	The plan should always have at least two published monuments on all plans. Have just the lot corner coordinate shown on the plan.	12/1/2019 11:49 PM
142	paper/digital record in job file	12/1/2019 9:48 PM
143	This is just stupid.	12/1/2019 7:11 PM
144	maintenance of electronic CADD files to house the data in separate layers or levels which can be turned on when required. Enough care would be required to alert the user of the datum and parameters required for transforming coordinates into other datums (i.e. MTM to UTM, NAD Original versus CSRS)	12/1/2019 6:54 PM
145	In my opinion, there is not much sense maintaining coordinates that are not of the highest accuracy.	12/1/2019 1:57 PM
146	This is a mute issue!! We all use computers, ergo CADD files ...etc.	11/30/2019 7:21 PM
147	if the plan is not one that is submitted to the LRO and the surveyor has used assumed coordinates, then that is fine and thus the plan stands on it's own. The surveyor is not required to coordinate all their plans any other coordinate system unless as per current regulation or as per their client's wishes. The problem with the AOLS mandating a particular coordinate system is that there will likely be conflicts with municipal adopted systems already in place for their databases. Thus this is an excellent topic for the annual meeting. However, caution is required, as sometimes these policies are driven by a few private Survey Companies that use mandated requirements for their own benefits and pass this off to the consumer.	11/30/2019 6:18 PM
148	If there is a database that provides something to the surveyor besides risk- digital files should be coordinated	11/30/2019 3:34 PM
149	I strongly feel they should be maintained on plans as they will get lost in surveyors files	11/30/2019 1:22 PM
150	It is the evidence used that should be preserved not the coordinates as systems will change over time	11/30/2019 12:56 PM
151	I would assume surveyors maintain download records. Again, what is the hang up on coordinates. What happened to current information and original bars and fences as evidence.	11/30/2019 3:14 AM
152	the surveyor must maintain the original digital GPS raw data and an html or equivalent spreadsheet indicating observation lengths, horizontal and vertical precisions, RMS, PDOP, number of satellites, etc. field notes and manuscripts must clearly indicate horizontal reference, vertical reference, epoch and combined scale factor used, together with GPS receiver model and whether the data was collected by PPP, RTK, static, VRS or combination thereof.	11/30/2019 2:54 AM
153	Plans with coordinate schedules	11/30/2019 1:26 AM
154	Fieldnotes morning coordinates of key points	11/30/2019 12:17 AM
155	Not going to happen. Coordinates must be on the face of the plan.	11/29/2019 11:43 PM
156	maintain their coordinate file which most do anyway	11/29/2019 11:19 PM
157	Same	11/29/2019 11:00 PM
158	Put it on the plan	11/29/2019 10:58 PM
159	A MAJORITY OF THE DHO ERA CONTROL MONUMENTS ARE GONE. IF COORDINATES ARE TO BE USED THEN THE PROVINCE SHOULD SET UP TRANSMISSION STATIONS RUNNING 24/7	11/29/2019 10:28 PM

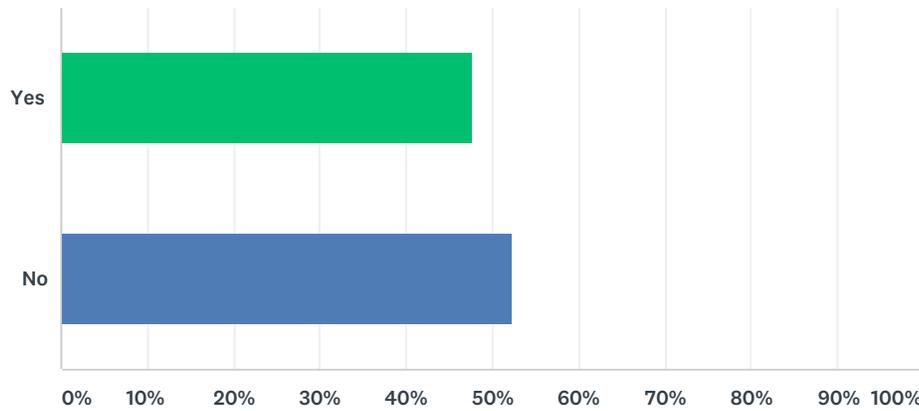
160	Field notes showing integration point numbers and coordinates	11/29/2019 10:26 PM
161	their notes, plans and calculations to support their plans	11/29/2019 10:03 PM
162	Keep coordinate information as field notes.	11/29/2019 9:58 PM
163	The coordinated cad version	11/29/2019 9:42 PM
164	Easier to show coordinates on the plan.	11/29/2019 9:39 PM
165	connection via integration surveyors should not be required to maintain them as epochs change and coordinates need to be massaged to match new epoch	11/29/2019 9:29 PM
166	Just like we do now. Keep both digital (in drawings) and hard copies of coords	11/29/2019 9:17 PM
167	via field notes	11/29/2019 8:56 PM
168	Why do we want to go backwards? S.6(1) of OReg. 216/10 would seem the basis for a requirement to maintain the data We'd have to extrapolate from S 4(1) of the Surveys Act the need to share this data.	11/29/2019 8:56 PM
169	no charge, available within 5 business days, in any format, we have enough issues with FNs	11/29/2019 8:42 PM
170	We should continue to show coords on all deposited plans	11/29/2019 8:27 PM
171	Date and Datum, adjustment, epoch of survey	11/29/2019 8:26 PM
172	They should be required on almost all plans.	11/29/2019 8:26 PM
173	database of coordinates, a link to which made available through the PSI	11/29/2019 8:22 PM
174	Coordinates need to be included on the plans so that there is no need to mess around with maintaining values. The coordinates form part of the plan and can be assessed as part of the chain of evidence. Having the coordinates on plans reinforces the signing OLS to ensure the integrity of the information reported on the plan including the coordinates. The coordinates are reflective of contemporaneous observations and may be subject to change hence the use of the information needs to be cautioned accordingly.	11/29/2019 8:15 PM
175	If you would like to entertain the idea of making the coordinate placement optional then you should give up any idea of requirements to maintain and make available said coordinates outside of FIELD NOTES!!!	11/29/2019 8:15 PM
176	A point plan and coordinate file related to it	11/29/2019 8:11 PM
177	calculation files, raw data set, lot corner ties, etc.	11/29/2019 8:08 PM
178	They should have a finalized adjusted list of the coordinates for the job in their files, or at least the method by which the file coordinates can be translated, rotated and scaled to get to a datum.	11/29/2019 8:05 PM
179	Coordinates or not - all our plans are integrated. The ODCC was a great idea because they would use the coordinates properly to produce a constantly updated provincial wide database. Teranet OBVIOUSLY does not update their fabric when new plans (with coordinates) are added to the LRO database. I don't think they would be missed.	11/29/2019 8:04 PM
180	must maintain co-ordinate list	11/29/2019 8:01 PM
181	You couldn't. Leave things the way they are. Why cave to the tiny few who are vocal and probably past retirement	11/29/2019 7:54 PM
182	We keep the raw field data as required	11/29/2019 7:52 PM
183	Maintain the same standards and just not publish them publicly. SRD requirement or Reg requirement.	11/29/2019 7:47 PM
184	I do not agree with removing this requirement. Only a comprehensive review will "expose" this	11/29/2019 7:42 PM
185	Stupid question. Keep them on plans	11/29/2019 7:40 PM
186	Another loaded question: -maintained: 216/10 Sec. 6 requires we maintain our source data, and Sec. 14 requires we determine coordinates of every angle or corner. -available in the future: (Excuse me, but to whom?) We should make our field notes (including observations) available, not coordinates. Surveys Act S.4	11/29/2019 7:39 PM

187	Just leave the current requirements on the plans. Most of these questions a justifying removing them and planning for removing them. If they stay on the plans they will be kept in the LRO forever.	11/29/2019 7:38 PM
188	Include the co-ordinates in with the new Survey Records Index. That way it is private to surveyors only.	11/29/2019 7:30 PM
189	I do not understand the question. Standards and procedures need to be maintained, as well as some physical representations of geodetic framework on the ground. The question of the physical representation of coordinates/elevations on the ground need to be addressed at a provincial and municipal level, and becomes very challenging at times when billion-dollar linear infrastructure capital projects are on the table. There is little understanding of the issues even between fellow professionals, and we need a concentrated effort to address for the benefit of all	11/29/2019 7:29 PM
190	I would suggest that the AOLS come up with a form can be with a "Integration Report No. XXXXX should be read in conjunction with this plan". The Integration Report can be either keep by the Survey firms/ online data base maintain by the AOLS.	11/29/2019 7:28 PM
191	Calc sheets	11/29/2019 7:04 PM
192	Just leave them on the plan and you don't need to worry about this.	11/29/2019 6:59 PM
193	keep Digital georeferenced files	11/29/2019 6:58 PM
194	Tough 1 Not all surveyors are cooperative I believe some coordinates should be on deposited Plans	11/29/2019 6:53 PM
195	Document the integration information currently required on a separate page and deposit with the plan. Make available free of charge to anyone.	11/29/2019 6:52 PM
196	i prefer to see coordinates on the plans	11/29/2019 6:37 PM
197	All calculation files should have 3 or points for which GPS values are measured and could be made available to other surveyors on request. Do not show info on plan.	11/29/2019 6:37 PM
198	What's the point of integrating surveys, and then make it onerous to access coordinates related to a survey?	11/29/2019 6:35 PM
199	Stick with publishing the co ordinates	11/29/2019 6:35 PM
200	We attach our final coordinates of the survey to the field notes and as long as you maintain them, like we are supposed to, then the coordinates will also be maintained.	11/29/2019 6:33 PM
201	This is a difficult function to regulate If coordinates not required then optional for surveyors to make available	11/29/2019 6:32 PM
202	We probably should dig out our staff compasses too. Other provinces have been showing coordinates for decades.	11/29/2019 6:26 PM
203	Integrated Cadastral Fabric database maintained by surveyors or AOLS	11/29/2019 6:24 PM
204	They should be left on the plan.	11/29/2019 6:23 PM
205	all coordinates should be in the same reference - CSRS	11/29/2019 6:22 PM
206	Raw data, processed report and txt files.	11/29/2019 6:20 PM
207	autocad files	11/29/2019 6:19 PM
208	Copy of the plan with the coordinates illustrated as they are currently.	11/29/2019 6:19 PM
209	Maintain coordinates with their notes	11/29/2019 6:18 PM
210	A final report on the coordinate system used and the coordinates of the monuments (or at least the main monuments, eg the outside of a subdivision) and ORPs.	11/29/2019 6:17 PM
211	All plans are coordinated and the values can be exported at any time. As well we maintain a coordinate file for each project.	11/29/2019 6:15 PM
212	Coordinates should be part of your field records. Just as we keep and share field notes with each other, the coordinate lists should be kept.	11/29/2019 6:13 PM
213	Log them in sticker book next to the corresponding plan.	11/29/2019 6:12 PM
214	Won't be able to insure them.	11/29/2019 6:12 PM

215	This is something to not even discuss. Municipalities, Utility companies, Transportation consultants, flight paths all require specific integration data to be displayed and posting this data on the face of the plan provides to the OLS more time to focus on other things.	11/29/2019 6:10 PM
216	CAD drawings themselves are coordinated, so as long as the CAD file is available, then coordinates will be maintained.	11/29/2019 6:08 PM
217	Same as field notes, or even as part of them.	11/29/2019 6:07 PM
218	same as the previous comments. I'm suggesting to keep coordinates shown on face of the plan when survey is completed. coordinates shown on face of plan is one of a good check if survey is related correctly from published controls, also would provide some help to future survey, etc.	11/29/2019 6:07 PM
219	Jobs are still to be integrated and as such the surveyor will have the co-ordinate information to be made available to other surveyors upon request, like field notes.	11/29/2019 6:06 PM
220	Plans could show the SCPs on the face of the plan as well as a tie from the SCP to the Part(s). I do this for MTO all the time. Coordinates on the Part(s) do not need to be shown. This would be similar to a lot corner tie.	11/29/2019 6:06 PM
221	make it part of the field note.	11/29/2019 6:04 PM
222	Maintain coordinates in PSRI	11/29/2019 6:03 PM
223	What does this even mean? Maintained and available in the future? The satellites are not going anywhere? I guess you need to decide why you want coordinates on plan?	11/29/2019 6:00 PM
224	no need to maintain coordinates	11/29/2019 6:00 PM
225	Do not see the benefit of maintaining coordinates into the future. Simple field note to be retained by surveyor with coordinates illustrated on a few main points should be sufficient.	11/29/2019 6:00 PM
226	not in favour of not showing coordinates for plans that end up in the RO	11/29/2019 6:00 PM
227	A FILE CONTAINING GRID COORDS	11/29/2019 5:59 PM
228	Their own records	11/29/2019 5:58 PM
229	all the same records they maintain now. Could be confirmed during Comprehensive Review or following a complaint or inquiry from the public or another OLS	11/29/2019 5:58 PM
230	Exported point file for the found or set monuments.	11/29/2019 5:56 PM
231	have to maintain their coordinated calculation database	11/29/2019 5:55 PM

Q6 Are you in favour of making coordinates optional on deposited and registered plans?

Answered: 289 Skipped: 7



ANSWER CHOICES	RESPONSES	
Yes	47.75%	138
No	52.25%	151
TOTAL		289

Q7 Do you have any other advice for the Task Force in this matter?

Answered: 184 Skipped: 112

#	RESPONSES	DATE
1	I understand the issues surrounding public misuse of public documents, and the ever so common GNSS units that are misleading people to believing the coordinates define boundaries and perhaps go as far to undermine the complex process surveyors go through to establish boundaries and their associated coordinates. But I have found that coordinates have been very useful to surveyors in retracing boundaries and locating evidence, particularly in the field when direct access to desktop computers are unavailable and the plan in hand is all that is available.	12/13/2019 11:35 PM
2	Stop being jerks. We have worked very hard to get to this point. DO NOT BACKSLIDE. There are assholes that would still like to go back to using a compass and a 66 foot rope; do let them prevail.	12/13/2019 11:10 PM
3	No	12/13/2019 10:22 PM
4	Preserve our valuable professional skill	12/13/2019 10:17 PM
5	It would be beneficial to understand the problems that some members have experienced. Perhaps some examples and the magnitude of damages suffered by the surveyor??? Might change my mind to protect the overall group.	12/13/2019 10:10 PM
6	It doesn't make sense to me to require coordinates to be measured and then make them optional to be shown on the plan. I don't think that is in the public interest.	12/13/2019 9:41 PM
7	Coordinates are very important on plans and at least 2 coordinated points have to be shown on plans	12/13/2019 8:53 PM
8	Coordinates are superfluous information to the boundary and Registry Office does not want superfluous information on the plans.	12/13/2019 8:09 PM
9	No	12/13/2019 8:05 PM
10	?How is requirement for integration of surveys ("not proposed to be removed") ensured/enforced if inclusion of coordinates optional?	12/13/2019 7:41 PM
11	The thing that needs to be coordinated are utilities.	12/13/2019 7:33 PM
12	In rural Ontario coordinates are beneficial because they can lead clients to the general area of the survey monuments. It just needs to be clear to the client that the monument is what governs.	12/13/2019 7:21 PM
13	Leave it as is.	12/13/2019 6:46 PM
14	1)I have no idea what question 3 & 4 are asking? 2)Coordinates should be mandatory. As time goes on, I believe we will enter an era where coordinates will play a large role in re-establishing boundaries. If they are not present on plans now, we will be doing ourselves a disservice and the public's interest will not be served.	12/13/2019 6:12 PM
15	no	12/13/2019 6:02 PM
16	Implement a standardized digital survey plan submission specification (like in BC, Alberta, Saskatchewan) that includes coordinates . Look into ways that surveyors can become more involved in cadastral mapping activities that benefit the public and the surveyors and raise the profile of land surveying. Making coordinate on plans optional seems to go in the wrong direction.	12/13/2019 5:57 PM

17	I am not sure what the issue is, coordinates are required on Registered / Deposited plans, is it that some offices do not have GPS units to make the required measurements...it is almost 2020, surely most offices should have a GPS at this point, if not get one. The one issue I see is the constantly changing Epochs Original/1997.0/2010.0 maybe the AOLS can pick a mandatory Epoch for plan integration. Pick a mandatory coordinate system, NAD 83 Zone 17 6 degree UTM for instance. Yes the City of Toronto requires MTM coordinates, if you do a plan in Toronto that requires MTM coordinates then get the City to understand that they can do the transformation between UTM and MTM, or have them accept a letter that states the coordinates in both systems. Basically Standardize the Projection requirements on the plans that need Coordinates and standardize the EPOCH. We are the experts here, lets use that knowledge to standardize the requirements. Have to admit the same is true with CGVD, just too many choices Pre 1978, Post 78, and the never able to find a benchmark 2013 version. Plans with GPS elevations with no reference to a Geodetic Benchmark should be unacceptable. We may have issues with coordinates, but I see way more issues with unreferenced GPS elevations use in lieu of proper referenced CGVD datums. Again we are supposedly the experts, pick a Vertical datum and stick with it.	12/13/2019 5:46 PM
18	No	12/13/2019 5:30 PM
19	Perhaps the TF should consider a regulation to add more coordinates to plans. Could you consider having a minimum number of published coordinates per lot/block/part.	12/13/2019 5:18 PM
20	Making coordinates optional on deposited or registered plans would be a significant step backwards.	12/13/2019 5:17 PM
21	We introduced integrated plans and now seem to be backtracking. I don't see the issue of liability of coordinates on the plans as being any greater than the other information we show on the plans. I think it is a mistake to make coordinates optional.	12/13/2019 5:17 PM
22	Let Say Surveyor A ask to complete a reference plan for a property and he found surveyor B did a reference plan right next parcel to subject and he integrate the survey and showing the coordinates for each corner.How ever Surveyor B made a mistake on his integration. in this case 1.Surveyor A has to accept surveyor B mistake and holding same reference bearing as surveyor B shown in the plan and come up same coordinate value as surveyor b shows for the common corner. (sort of treating coordinate as evidence) or 2.Surveyor A has to show the correct coordinate value. If Surveyor B go with decision 2 he is crating conflict and issue between two neighbors. If he follow the decision 1 he is conflicting with the purpose of integration. Task force has to think about this and give us a solution.	12/13/2019 5:07 PM
23	UTM co-ordinates is very helpful in many ways. It helps to build a co-ordinated cadastre. I would prefer to not remove this requirement from survey plans.	12/13/2019 5:06 PM
24	Focus on validating the current coordinates on plans and coming up with a digital survey specification as in nearly all other jurisdictions to facilitate efficient and accurate land development.	12/13/2019 5:03 PM
25	I believe integration of surveys benefits everyone. I think some discussion or consistency on how we accommodate other professions that desire AutoCAD drawings in ground "space" would be worthwhile.	12/13/2019 4:57 PM
26	We went to a lot of effort to get ourselves into a position with coordination/integration. Courses, etc. We had the SRD providing the membership with support, suggestions, etc. I understand that there is the potential for others to benefit from our work but from my perspective, that "ship has sailed". One of our roles has always been to ensure the underlying fabric is maintained. integration and coordination does do that.	12/13/2019 4:48 PM
27	Don't create an issue where there isn't one.	12/13/2019 4:46 PM
28	Coordinates should not be published for public documents but should be required for a surveyor's records. It should also be required that these coordinates be available for the survey records index.	12/13/2019 4:46 PM
29	More education, surveyors have falling too far behind engineering companies and technology	12/13/2019 4:42 PM
30	Coordinates are helpful for construction project purposes	12/13/2019 4:39 PM
31	NO	12/13/2019 1:38 PM

32	Coordinates have replaced angles and distances on field notes. They represent a form of survey evidence that can be used to retrace a boundary in the future. 50 to 100 years from now, those coordinates may be the only evidence left of the boundary. This survey evidence needs to be archived in a repository that can stand the test of time. Survey companies come and go, so there is no guarantee this data can be retrievable in the future if it is not published on a plan. For now, coordinates on plans in the Land Title Office is the safest and most efficient means of preserving evidence of the location of a property boundary. In fact, they have now replaced, what us old timers use to refer to as the infamous "Lot corner tie".	12/12/2019 12:14 PM
33	It seems to me a lot of the difficulties could be avoided by using monuments with published values as the source of integration instead of relying on ORP's. Showing ties to published monuments allows us to integrate without directly providing coordinates on the corners of the subject lands. In fact, since the coordinates of the monuments are published, you would not necessarily have to provide the coordinate values on the plan since they can easily be found on databases such as COSINE.	12/11/2019 8:49 PM
34	Keep it simple.	12/10/2019 6:22 PM
35	None	12/10/2019 5:26 PM
36	no	12/9/2019 9:43 PM
37	Think of the long term public liability to the surveyors!	12/9/2019 2:05 PM
38	Do not change the existing regulations in respect to showing coordinates on plans	12/9/2019 12:06 AM
39	The use of coordinates by the public will continue and grow. Our survey plans will be reduced to hard coordinates used as is by the public without thought to the survey methodology and our expertise.	12/8/2019 12:22 PM
40	IN CAYMAN COORDINATES SHOWN ON PLANS WAS LEGISLATED IN THE EARLY 1970s AND HAS BEEN IN FORCE EVER SINCE. EVERY POINT HAS A UNIQUE IDENTIFIER. HAPPY TO PROVIDE EXAMPLES IF YOU WISH.	12/7/2019 5:34 PM
41	Clients who receive cad format deliverables get all the coordinates they want. Other users should be restricted to what they see on the face of the paper print.	12/6/2019 5:05 PM
42	THANKS	12/6/2019 4:50 PM
43	no changes required	12/6/2019 2:57 PM
44	The association has to stop regulating our profession to death. This PSRI is another example of adding costs to the pubic that require a survey. The geo referencing of plans is another example of being over regulated. We were told to vote this through or it was going to be legislated. The members warned about putting coordinations on plans and the committee didn't listen. Here we are 10 years down the road and its not working. There is nothing wrong with going back to astronomic bearing. Maybe the cost of a survey will come down instead of through the roof.	12/6/2019 2:43 PM
45	We live in a geo-spatial world. Get with the plan.....	12/6/2019 1:02 PM
46	None	12/6/2019 3:06 AM
47	No	12/6/2019 12:33 AM
48	The public in general accept coordinates as is. I believe the problem lies with too many derived lines, ties, points, that are calculated and then compared with other surveyors notes. Perhaps BA plans could also be submitted to minimize debate between surveyors.	12/6/2019 12:27 AM
49	Teranet is the user no one wants to mention. Tell them we know they are using them are are prepared to remove them. We won't in exchange for bulk pricing on search fees across the association	12/6/2019 12:18 AM
50	Thank you Task Force for all your hard work!	12/6/2019 12:18 AM
51	It took over 100 years to go from angles and distances to coordinates. Coordinates are now part of measurements used in every electronic survey instruments. Why not reflect today's reality.	12/5/2019 11:18 PM
52	I believe that the cadastral component (what the AOLS is concerned about) is a small portion of this issue. Construction projects, engineering surveys and other non-regulated opportunities is where the real issues lie. Unfortunately that is out of the reach of the AOLS.	12/5/2019 7:34 PM
53	no	12/5/2019 7:07 PM

54	We feel that making integration optional would be a step backwards for our Association and our profession	12/5/2019 7:00 PM
55	In my opinion, all surveyors are STILL going to be required to integrate surveys, so why do away with showing the coordinates on the face of the plan? Looking at all of the regulations and acts that need to be intricately reviewed to ensure we, as a profession, are fulfilling our duties to the public; I think we can take a few extra minutes to put a coordinate table on the face of the plan. We are already starting to see a failing cadastre as areas are beginning to go un-surveyed for many many years due to circumstances out of our control, do we want to go the same to happen with yet another area we are the experts in?	12/5/2019 6:26 PM
56	find a way to keep co-ordinate values out of the hands of the public and ensure that required accuracy standards are achievable	12/5/2019 6:20 PM
57	Don't move backwards... coordinates are here to stay. It would be a huge mistake to make them optional.	12/5/2019 5:54 PM
58	I think it is a step backwards removing them. I believe this is a reaction to the loss of the copyright fight and is not in the public interest. There are many jurisdictions around the world that are coordinate based Cadastral systems that still require the boundaries to be set by a professional surveyor.	12/5/2019 5:39 PM
59	No	12/5/2019 5:38 PM
60	Cadastral surveying is exclusive right to OLS. Protect this, investigate cases of abuse.	12/5/2019 5:31 PM
61	My preference is not to show coordinates for the legal fabric. Ties to one or more control points is survey method and the published coordinates if acceptable to the surveyor for accuracy should be in the job file. The same for PPP printouts, Active Control Stations, etc.	12/5/2019 5:22 PM
62	I think coordinates are a great idea but since I have started surveying many years ago we have gone from NAD 27 to NAD 74 to NAD 76 then Nad 83 and now we have CSRS with multiple versions. If you want to look really stupid in front of your client, just publish a plan that has coordinates in CSRS version 6 when the preceding plan or the adjacent plan is CSRS version 3. UGH! I have no reason to think that the frame of reference currently in vogue CSRS v 6, will remain . The constant change in the frames of reference does little more than preserve the mystique of the surveyor!	12/5/2019 5:00 PM
63	Cadastr is a future	12/5/2019 4:58 PM
64	We are either integrated or we are not. Is there an issue? Why are we revisiting this now?	12/5/2019 4:53 PM
65	I do not think we as an Association should be adding coordinates to plans that are basically a recipe for disaster in the future and do not positively serve the public interest due to the high potential for misuse. In addition, I do not think we should be aiding and abetting government sanctioned private monopolies in the GIS data collection and dissemination business by agreeing to put coordinates on plans. I also think we should use any and all efforts to resist any future efforts to adopt DWG or equivalent versions as part of the electronic registration process for those plans entering the Land Registry System.	12/5/2019 4:52 PM
66	No. Thanks for the efforts.	12/5/2019 4:49 PM
67	If it's optional, it solves nothing for potential abuse since some plans will still have them. Also, if we are making things optional because they might be misused by the public, why not make distances (that people measure with a tape measure) or bearings (that people measure with a compass) optional? Where do we stop? These data are far more abused than coordinates on a plan, yet we never had a problem with them.	12/5/2019 4:47 PM
68	keep things as they are or forget about coordinated plans	12/5/2019 4:42 PM
69	I know for a fact that the general public uses coordinates from various mapping websites to try and determine their boundaries, these websites have disclaimers (i.e. This is not a legal survey) and so do we on the face of our plans about the use of coordinates. I don't think making ORP's optional on plans will change things much	12/5/2019 4:41 PM
70	I think that the issue at hand is a public awareness issue on the use of coordinates and not an issue with the current plan requirements. Removing integration information from a plan would be a step backwards as compared to other associations with provisions for coordinate based cadastres. In my opinion it is more likely for the public to misuse building and fence tie information than a published coordinate.	12/5/2019 4:40 PM

71	Let's focus on getting the membership up to standard rather than lowering standards to ensure all can meet them. Every town, city, municipality in south central Ontario needs coordinates for their submissions. Rural and remote areas may require coordinates more critically where survey monuments are regularly lost/destroyed. This is not to say coordinates can establish boundary points, but they do provide some basis for investigation.	12/5/2019 4:37 PM
72	The less information on the plan, the less we are potentially liable for. That is what Ken Muckleston told me years ago.	12/5/2019 4:27 PM
73	The integrated Surveys was a beneficial and useful step towards the future. why step back backwards now? it is true that the integrated surveys requirements (including the accuracy requirements) was not well thought out. not for lack of effort; i realize that !	12/5/2019 4:27 PM
74	none	12/5/2019 4:26 PM
75	Teranet steals our work to improve their mapping products. they should pay for the information.	12/5/2019 4:25 PM
76	N/A.	12/5/2019 4:24 PM
77	None	12/5/2019 4:21 PM
78	Our fees are high and we need to scale down AOLS oversight of our membership, not increase it. Make coordinates optional, but trust the professionals to manage and share their own data.	12/5/2019 3:43 PM
79	no	12/5/2019 2:29 PM
80	Nil	12/4/2019 10:29 PM
81	We still work in feet and no one knows what our coordinates mean anyway! As only 2 coordinates given on a plan, the public is still forced to calculate the other corners. Anyone who can do this will probably still be able to determine coordinates for their corners if they are on the plan or not. The municipal mapping is getting better and better as well.	12/4/2019 9:20 PM
82	No.	12/4/2019 5:01 PM
83	ask the AOLS, weight their response based on how many plans they deposit in the LRO system though.	12/3/2019 4:55 PM
84	See answer to Question 5. Essentially, anything that the SRD requires for their Comprehensive Review should be maintained and made available by the surveyor. I also believe any coordinates shown on plans or distributed to other users should always be grid coordinates (never ground!) based on a certain datum & projection, with a specified scale factor.	12/3/2019 4:05 PM
85	Nope	12/3/2019 2:56 PM
86	In 1997 when I arrived in Canada it was huge surprise to me that Ontario doesn't use unified coordinates system obligatory for EACH survey.	12/3/2019 2:47 PM
87	Let us not go backwards in time ... but be proactive in the products that are used for the subdividing of this province. The professional surveyor must also be proactive in educating him/herself on the process in delivering a consistent and accurate product when stating said coordinates on their plans.	12/3/2019 1:17 PM
88	GPS is like any other tool, it needs to be used in an appropriate manner and for the purpose to which it is suited. Co-ordinates and geodetic data can be very useful in creating an information base over large areas, and in acquiring information expeditiously under certain circumstances. However, we need to understand the weaknesses as well as the strengths, and know whether they impact the reliability of the project for which they are being used. My experience with NRCAN's PPP service suggests that there needs to be some time delays in processing results, to ensure that accurate satellite positions and timing have been used. On an anecdotal level, we were told by a forming crew that they were very happy with our layouts (generally with 5mm), but they had bad experience with GPS crews laying out buildings beings out 15 centimetres. Don't use a sledgehammer to swat the mosquito on my back.	12/3/2019 1:51 AM
89	The AOLS is erring by limiting features/products in the guise of "public protection". Public agencies are required to provide an increasing amount of data to the public via Open Data -- the AOLS needs to reconsider it's policies and be more willing to provide the public with value-added products.	12/2/2019 4:53 PM

90	Coordinates been shown on the plan adds value to other surveyor's and governmental departments. There is clearly a note there that states they cannot be used to establish boundaries or corners. If the public is abusing this then it should be at there own risk. The argument could be made that we should no longer put building ties on SRPR's as well because the public may misuse those to build a fence, but I think we can all agree that would never work.	12/2/2019 4:31 PM
91	We fully support integrated surveys and showing coordinates on the face of the plan.	12/2/2019 4:11 PM
92	no	12/2/2019 3:38 PM
93	If the co-ordinates have to be requested, it is one more chance the surveyor can be in contact with an end user of the co-ordinates and they may be able to have a conversation with the end-user to determine their understanding of reference systems, datums etc.. and prevent misuse.	12/2/2019 3:31 PM
94	not at this time	12/2/2019 3:24 PM
95	Coordinates have been provided on plans for about 40-50 years without issue, this should continue.	12/2/2019 3:16 PM
96	Since the Supreme Court has decided we do NOT own our Plans, we should not give away extra data; and we should reduce our exposure to liability for which we are not compensated	12/2/2019 3:10 PM
97	No.	12/2/2019 2:40 PM
98	On one hand it seems noble to prevent the public from burning themselves by simply laying out coordinates and doing it wrong. From a risk management perspective, do we have enough evidence to support the removal of coordinates? If so, how do we handle the much larger risk that results when we provide geo-referenced dwg files to consultants as part of a contract requirement?	12/2/2019 2:29 PM
99	Coordinates on plans is yet another of the cuts that are the 1000 cuts killing this profession. Quit making surveyors give their IP away for free.	12/2/2019 2:17 PM
100	no.	12/2/2019 2:03 PM
101	No	12/2/2019 1:42 PM
102	It was a mistake for the AOLS to have allowed this integration by-law to pass in the first place. It was voted in by GIMs who had no skin in the game, and where are they all now ?	12/2/2019 1:41 PM
103	Remove any suggestion as to optional and have all plans publish a reference to coordinates All surveys to be integrated.	12/2/2019 1:40 PM
104	DON'T ROCK THE BOAT. THE SYSTEM IS WORKING FINE EXCEPT FOR A FEW INDIVIDUALS THAT WE DO NOT NEED TO LISTEN TO OR ADD ADDITIONAL EXPENSE TO OUR CLIENTS.	12/2/2019 1:33 PM
105	Just a comment. Making this an option appears to me to be a step backwards.	12/2/2019 1:19 PM
106	Provide the results of this survey to the membership.	12/2/2019 1:01 PM
107	No	12/2/2019 12:53 PM
108	The coordinates are required for GIS maintained by Terraview and various agencies to be able to graphically show where the property is located. Without coordinates this would not be as easily done	12/2/2019 11:55 AM
109	keep coordinates on the plans	12/2/2019 3:35 AM
110	Why are we still, by regs, needing to set SIBs?	12/1/2019 11:49 PM
111	I think everything is ok the way it currently is with respect to integration of plans entering the Land Registry Office	12/1/2019 11:40 PM
112	simplify	12/1/2019 9:48 PM
113	If you are going forward with the Provincial records index and you need integration to place plans in the correct spot then stop messing with the system. This is why we have A HARD TIME MOVING FORWARD WITH ANYTHING POSITIVE!!!!!!!!!!!!!!	12/1/2019 7:11 PM
114	Offering education in the careful use of coordinates is always a good thing which would result in a more wide ranging knowledge across many users of coordinates in their own fields.	12/1/2019 6:54 PM

115	If optional, then there is no use of collecting the data in the first place. I think we have to review what situations would require coordinates to re-establish a boundary. In my practice this would be new subdivisions, and make the coordinates control the boundaries. If we decide not to show these coordinates, then it is a waste of the clients money to collect the data. Where I practice, the data collected is not of the accuracy to be used to re-establish a boundary.	12/1/2019 1:57 PM
116	No	11/30/2019 7:21 PM
117	don't drink beer during your meetings.	11/30/2019 6:18 PM
118	Please explain why we are considering this move and explain why might represent a move into the future? No background was given as to why this is being considered. Seems backwards to me....perhaps education of the user is more appropriate than "withholding" potentially useful information.	11/30/2019 4:59 PM
119	No	11/30/2019 3:34 PM
120	Are you proposing to make coordinate of a higher nature on the hierarchy of evidence?	11/30/2019 12:56 PM
121	Integration of all deposited and Registered Plans should still be mandatory, however remove coordinates from the face of all deposited and Registered Plans. the integrated plans should be provided digitally to the government organizations for their internal use only. alternatively, if coordinates are required on the face of the plan, they should be rounded to the nearest metre of accuracy on the face of the plan ... ie ... should be for the purpose of use in a GIS data base.	11/30/2019 2:54 AM
122	Change nothing	11/30/2019 1:26 AM
123	No advice but good luck in this endeavour	11/30/2019 12:17 AM
124	There may be concerns that non-professional laypersons may have access to accurate reconstruction of cadastral fabric; but I fear if we "hide" the data, it will not be part of the future cadastral fabric. We've come along way. Don't give up now.	11/29/2019 11:43 PM
125	no	11/29/2019 11:19 PM
126	Coordinates are important as they allow for surveyors to pre-calculate bars before searching for them. Especially useful in open fields and areas with little occupation.	11/29/2019 11:00 PM
127	We went through the trouble of setting things up to coordinate plan. Just leave it. Do you think that in 50 years from now, surveyor's are going to be glad that we have coordinates on plans....I think so. And all plans should be in grid. Astronomic does not really mean anything. Only plan that should not have coordinates on them are compiled easement plans. Only plan that could be made optional subdivision easement plans (since the subdivision would be coordinated)	11/29/2019 10:58 PM
128	SEE # 5	11/29/2019 10:28 PM
129	no	11/29/2019 10:03 PM
130	Clearly its about money. Why not consult teranet and tell them what could happen and what they are prepared to offer	11/29/2019 9:42 PM
131	do away with lot corner ties if plans are to be integrated	11/29/2019 9:29 PM
132	The whole province, or at least the various regions, should be using one single coord system, ie CSRS, and stick to one epoch and not change over time. Something constant from now on. Our accuracey is so much better that the control out there. We shouldn't be trying to fit it. I think we want one system, that is common among all survey firms. That way things will fit together.	11/29/2019 9:17 PM
133	Keep in mind the issues we face now with sharing FN when making the final decision	11/29/2019 8:42 PM
134	if you are making it mandatory to share co-ordinates, are you going to mandate an Epoch ? are you going to mandate how a Surveyor establishes their co-ordinate system - will there be an absolute or relative accurate system ?	11/29/2019 8:36 PM
135	My firm decided to show coords on two points on every plan produced deposited or undeposited	11/29/2019 8:27 PM
136	I would like to hear arguments for and against having cords on plans.	11/29/2019 8:26 PM
137	This is a slippery slope. Not requiring coordinates on registered and deposited plans is ridiculous, and a big step backwards for our industry.	11/29/2019 8:26 PM
138	seek out practices from other jurisdictions who have been through similar process changes	11/29/2019 8:22 PM

139	Coordinates have been published on plans for close to 50 years or more here in Ontario. Instead of looking at creating a much larger mess by doing away with coordinates on plans perhaps the task force may consider how best to educate the public and practising surveyor, engineers and other land related professionals in the use of coordinates on plans.	11/29/2019 8:15 PM
140	We have a system that works to publish coordinates. Based on the questions in this survey - if the coordinates are made optional the AOLS will spend more money and time to regulate how surveyors maintain and distribute coordinates i.e. develop a system to replace a system.	11/29/2019 8:15 PM
141	eliminate the requirement for coordinates on plans for sure!!!!	11/29/2019 8:08 PM
142	Get asbestos unmentionables... lol for the hot seat... :-)	11/29/2019 8:05 PM
143	No, but I really appreciate the hard work that goes into preparing these reports for us. Thank you on behalf of your fellow surveyors.	11/29/2019 8:04 PM
144	Leave things the way they are. It works. The few that are vocal in their complaints should retire.	11/29/2019 7:54 PM
145	The municipal organizations do not require the publication of coordinates as much as they required the cad file submission to be in the proper coordinate system.	11/29/2019 7:52 PM
146	giving surveyors the option to will possibly result in clients insisting they be put on.	11/29/2019 7:47 PM
147	I feel things are fine as they are. We are supposed to be the experts in this field and our plans should reflect this. Coordinates are just as important as bearings and dimensions!	11/29/2019 7:42 PM
148	Keep coordinated on plans.	11/29/2019 7:40 PM
149	It is in the public interest (Sec. 2, Surveyors Act) to make intelligible plans. Bearings and Distances are "polar coordinates" which can be converted to "plane coordinates" by multiplying (by the sine and cosine) and adding to the starting coordinate. Since boundaries are a matter of evidence (documentary, physical) and interpretation (statutes, common law), and since by 216/10 18 (i) (ii) coordinates cannot, in themselves, be used to re-establish the corners or boundaries shown on the plan, surveyors don't have to worry about misuse. Additionally Surveyors Act S.11 prevents unlicensed practice.	11/29/2019 7:39 PM
150	Taking off the coordinates is virtually the same as stopping integrated surveys. Surveyor's already have a hard time getting field notes from other firms so relying on someone else to catalog the data 50 years from now is not reasonable (I have trouble getting notes already). This entire initiative seems to be driven by short sighted old-guard surveyors who are worried this additional information will cost them business. I believe that integrated plans (that stand alone without the notes) will be more valuable in the future for the public and generate more work for OLS's in the future.	11/29/2019 7:38 PM
151	Teranet, Municipalities and the like have been able to benefit hugely from the free information on our plans and we have not been able to monetize this cost in return, which we have had to glean from the general public at our own expense. Stop giving information away for free. If it is truly valuable, someone should want to pay for it, otherwise we should not be doing it. Surveys cost enough on their own.	11/29/2019 7:30 PM
152	Further to the requirements of O. Reg. 216/10 (4), approve and distribute sample Project Report templates that include a paragraph about each step of the project workflow, for a project a typical complexity. Liaise/assist in organizing topical seminars/webinars about concrete cases in which coordinates are observed, derived, manipulated/adjusted, presented and shared. Unless we establish, firm up and ENFORCE good practices and procedures, we will keep facing challenges with these matters.	11/29/2019 7:29 PM
153	I am more than happy to give suggestions if necessary. This would be critical to avoid some of the non-license members misuse the integrated coordinates without fully understanding the survey principals.	11/29/2019 7:28 PM
154	No	11/29/2019 7:04 PM
155	Just leave them on the plans.	11/29/2019 6:59 PM
156	None at this time	11/29/2019 6:53 PM
157	Stick with the current requirements. It took a long time to implement integrated surveys in Ontario. This would be a step backwards. Open data is not a bad thing.	11/29/2019 6:52 PM
158	LRO is not the only beneficial of having coordinates on the plan surveyors need that too.	11/29/2019 6:37 PM
159	Do not allow Teranet to use our work for their benefit without fair compensation.	11/29/2019 6:37 PM

160	Leave everything as is. If the Task Force is looking for something to do, they can investigate if there is currently a serious problem with misuse of coordinates shown on plans of survey.	11/29/2019 6:35 PM
161	Get over yourselves and stop wasting your time trying to mess with Teranet - we lost that battle. We want a level playing field, Coordinates should be mandatory on all plans entering the Land Registry System	11/29/2019 6:35 PM
162	This should not even have been brought forward	11/29/2019 6:32 PM
163	Get rid of the luddites	11/29/2019 6:26 PM
164	Yes, leave it alone. it will trigger the larger companies to apply fees for the information. The cost of research is already enormous as you are aware.	11/29/2019 6:23 PM
165	This is a potentially complex subject and likely needs more indepth research than what comes out of a surveymonkey poll.	11/29/2019 6:19 PM
166	No	11/29/2019 6:19 PM
167	Coordinates on plans mislead the public that all property corner can just be located by coordinates.	11/29/2019 6:18 PM
168	Although the ORP note states the coords are not to be used I'm in favour of avoiding any liability. In the majority of cases bars are found easily without the coordinates anyway.	11/29/2019 6:12 PM
169	Don't see why it needs to change.	11/29/2019 6:12 PM
170	Look at the big picture. This is a ridiculous and shortsighted request and reeks of someone's agenda due to not being able to perform correctly or trying to charge extra for it (which you already should as part of your contract anyway...)	11/29/2019 6:10 PM
171	Why move backwards? Should be moving the other way making coordinates more accurate.	11/29/2019 6:08 PM
172	Take the coordinates off. They serve no useful boundary retracement principles.	11/29/2019 6:08 PM
173	Either require full, standardized integration or drop the idea. This half measure we now have is apparently not used for much and is insufficient for any future use.	11/29/2019 6:07 PM
174	I interpreted one of the purpose for showing SCPs or ORPs is to check if survey is related correctly from published controls etc and it is a good information to provide some helps to the future survey/surveyors/public user i.e. engineers. I dont understand why showing it could bother some people.	11/29/2019 6:07 PM
175	Make Surveyors create geo-referenced closed polygons for each Part named after the reference plan number (i.e. XXR-XXXXX_01 for Part 1). When we come to our senses and finally breath some life into ODCC we are creating the building blocks for it. Similar to the current MNRF CAD submission.	11/29/2019 6:06 PM
176	This is a good idea, to prevent the misappropriated use by citizens without a cadastral license.	11/29/2019 6:04 PM
177	Don't step backwards. All plans should be integrated. Period.	11/29/2019 6:02 PM
178	Rather than showing coordinates on the corners (bars) show 2 ties - old school like when we showed ties to control monuments.	11/29/2019 6:00 PM
179	regulate against illustrating coordinates on plans to avoid public misuse all together, and provide governments with coordinated CAD files when needed for their GIS applications.	11/29/2019 6:00 PM
180	Many surveyors have licensed all their plans to LSR to save time/money in researching for other surveyors. Having to provide coordinates brings back the same problem and I'm against it. Especially, this affects company with lots of records.	11/29/2019 6:00 PM
181	Feel making coordinates optional is a step backwards. Provides opportunity for surveyors to avoid integration altogether. Lack of consistency may create another headache for the SRD.	11/29/2019 6:00 PM
182	You should be discussing this with the cities and municipalities before going forward,..	11/29/2019 5:59 PM
183	Good luck	11/29/2019 5:56 PM
184	NA	11/29/2019 5:56 PM