AGREEMENT FOR PROFESSIONAL SERVICES (Design Professional)

THIS AGREEMENT is made and entered into this day of
, 2021, by and between the City of Merced, a California Charter
Municipal Corporation, whose address of record is 678 West 18th Street, Merced,
California 95340, (hereinafter referred to as "City") and National Demographics,
Inc., a California Corporation, whose address of record is P. O. Box 5271,
Glendale, California 91221, (hereinafter referred to as "Consultant").

WHEREAS, City is undertaking a project to review and update the current City Council District boundaries as required pursuant to California Elections Code Section 21621. This project will require the use of a qualified demographer to assist with the review and potential adjustments to the six city council districts within the City to comply with both Federal and State Voting Rights Acts; and,

WHEREAS, Consultant represents that it possesses the professional skills to provide demographic services in connection with said project.

NOW, THEREFORE, the parties hereto, in consideration of the mutual covenants hereinafter recited, hereby agree as follows:

1. SCOPE OF SERVICES. The Consultant shall furnish the following services: Consultant shall provide the demographic services described in Exhibit "A" attached hereto.

No additional services shall be performed by Consultant unless approved in advance in writing by the City, stating the dollar value of the services, the method of payment, and any adjustment in contract time. All such services are to be coordinated with City and the results of the work shall be monitored by the City Manager or designee. However, the means by which the work is accomplished shall be the sole responsibility of the Consultant.

2. TIME OF PERFORMANCE. All of the work outlined in the Scope of Services shall be completed in accordance with the Schedule outlined in Exhibit "B" attached hereto and incorporated herein by reference. By mutual agreement and written addendum to this Agreement, the City and the Consultant may change the requirements in said Schedule.

- 3. TERM OF AGREEMENT. The term of this Agreement shall commence upon the day first above written and end on June 30, 2022.
- 4. COMPENSATION. Payment by the City to the Consultant for actual services rendered under this Agreement shall be made upon presentation of an invoice detailing services performed under the Scope of Services, in accordance with the fee schedule set forth in Exhibit "A" attached hereto and incorporated herein by reference. The Consultant agrees to provide all services required under the Scope of Services in Exhibit "A" within the compensation amount set forth in Exhibit "A". For Consultant's services rendered under this Agreement, City shall pay Consultant the not to exceed sum of Fifty Thousand Dollars (\$50,000.00).
- 5. METHOD OF PAYMENT. Compensation to Consultant shall be paid by the City after submission by Consultant of an invoice delineating the services performed.
- 6. RECORDS. It is understood and agreed that all plans, studies, specifications, data magnetically or otherwise recorded on computer or computer diskettes, records, files, reports, etc., in possession of the Consultant relating to the matters covered by this Agreement shall be the property of the City, and Consultant hereby agrees to deliver the same to the City upon termination of the Agreement. It is understood and agreed that the documents and other materials including but not limited to those set forth hereinabove, prepared pursuant to this Agreement are prepared specifically for the City and are not necessarily suitable for any future or other use.
- 7. CONSULTANT'S BOOKS AND RECORDS. Consultant shall maintain any and all ledgers, books of account, invoices, vouchers, canceled checks, and other records or documents evidencing or relating to charges for services or expenditures and disbursements charged to the City for a minimum of three (3) years, or for any longer period required by law, from the date of final payment to the Consultant to this Agreement. Any records or documents required to be maintained shall be made available for inspection, audit and/or copying at any time during regular business hours, upon oral or written request of the City.
- 8. INDEPENDENT CONTRACTOR. It is expressly understood that Consultant is an independent contractor and that its employees shall not be employees of or have any contractual relationship with the City. Consultant shall be responsible for the payment of all taxes, workers' compensation insurance and unemployment insurance. Should Consultant desire any insurance protection, the Consultant is to acquire same at its expense.

In the event Consultant or any employee, agent, or subcontractor of Consultant providing services under this Agreement is determined by a court of competent jurisdiction or the California Public Employees Retirement System (PERS) to be eligible for enrollment in PERS as an employee of the City, Consultant shall indemnify, protect, defend, and hold harmless the City for the payment of any employee and/or employer contributions for PERS benefits on behalf of Consultant or its employees, agents, or subcontractors, as well as for the payment of any penalties and interest on such contributions, which would otherwise be the responsibility of City.

9. INDEMNITY.

- A. Indemnity for Professional Liability. When the law establishes a professional standard of care for Consultant's Services, to the fullest extent permitted by law, Consultant shall indemnify, protect, defend, and hold harmless City and any and all of its officials, employees and agents from and against any and all losses, liabilities, damages, costs, and expenses, including legal counsel's fees and costs but only to the extent the Consultant (and its Subconsultants), are responsible for such damages, liabilities and costs on a comparative basis of fault between the Consultant (and its Subconsultants) and the City in the performance of professional services under this agreement.
- B. Indemnity for Other Than Professional Liability. Other than in the performance of professional services and to the full extent permitted by law, Consultant shall indemnify, defend, and hold harmless City, and any and all of its employees, officials and agents from and against any liability (including liability for claims, suits, actions, arbitration proceedings, administrative proceedings, regulatory proceedings, losses, expenses or costs of any kind, whether actual, alleged or threatened, including legal counsel's fees and costs, court costs, defense costs, and expert witness fees), where the same arise out of, are a consequence of, or are in any way attributable to, in whole or in part, the performance of this Agreement by Consultant or by any individual or City for which Consultant is legally liable, including, but not limited to officers, agents, employees, or subcontractors of Consultant.
- 10. INSURANCE. During the term of this Agreement, Consultant shall maintain in full force and effect at its own cost and expense, the following insurance coverage:

a. Workers' Compensation Insurance. Full workers' compensation insurance shall be provided with a limit of at least One Hundred Thousand Dollars (\$100,000) for any one person and as required by law, including Employer's Liability limits of \$1,000,000.00 per accident. The policy shall be endorsed to waive the insurer's subrogation rights against the City.

b. General Liability.

- (i) Consultant shall obtain and keep in full force and effect general liability coverage at least as broad as ISO commercial general liability coverage occurrence Form CG 0001.
- (ii) Consultant shall maintain limits of no less than One Million Dollars (\$1,000,000) per occurrence for bodily injury, personal injury and property damage.
- (iii) The City, its officers, employees, volunteers and agents are to be named as additional insureds under the policy, as respects liability arising out of work or operations performed by or on behalf of the Consultant.
- (iv) The policy shall stipulate that this insurance will operate as primary insurance for work performed by Consultant and its sub-contractors, and that any other insurance or self insurance maintained by City or other named insureds shall be excess and non-contributory.
- (v) Consultant shall maintain its commercial general liability coverage for three (3) years after completion of the work and shall add an additional insured endorsement form acceptable to the City naming the City of Merced, its officers, employees, agents and volunteers for each year thereafter for at least three (3) years after completion of the work. Copies of the annual renewal and additional insured endorsement form shall be sent to the City within thirty (30) days of the annual renewal.

c. Automobile Insurance.

(i) Consultant shall obtain and keep in full force and effect an automobile policy of at least One Million Dollars (\$1,000,000) per accident for bodily injury and property damage.

- (ii) The City, its officers, employees, volunteers and agents are to be named as additional insureds under the policy, as respects automobiles owned, leased, hired or borrowed by the Consultant.
- (iii) The policy shall stipulate that this insurance will operate as primary insurance for work performed by Consultant and its sub-contractors, and that any other insurance or self insurance maintained by City or other named insureds shall be excess and non-contributory.
- d. Professional Liability Insurance. Consultant shall carry professional liability insurance appropriate to Consultant's profession in the minimum amount of One Million Dollars (\$1,000,000). Architects and engineers' coverage is to be endorsed to include contractual liability.
- e. Qualifications of Insurer. The insurance shall be provided by an acceptable insurance provider, as determined by City, which satisfies all of the following minimum requirements:
 - (i) An insurance carrier admitted to do business in California and maintaining an agent for service of process within this State; and,
 - (ii) An insurance carrier with a current A.M. Best Rating of A:VII or better (except for workers' compensation provided through the California State Compensation Fund).
- f. Certificate of Insurance. Consultant shall complete and file with the City prior to engaging in any operation or activity set forth in this Agreement, certificates of insurance evidencing coverage as set forth above and which shall provide that no cancellation or expiration by the insurance company will be made during the term of this Agreement, without thirty (30) days written notice to City prior to the effective date of such cancellation—including cancellation for nonpayment of premium. In addition to any other remedies City may have, City reserves the right to withhold payment if Consultant's insurance policies are not current.

11. PREVAILING WAGES.

- A. Labor Code Compliance. If the work performed under this Agreement falls within Labor Code Section 1720(a)(1) definition of a "public works" the Vendor agrees to comply with all of the applicable provisions of the Labor Code including, those provisions requiring the payment of not less than the general prevailing rate of wages. The Vendor further agrees to the penalties and forfeitures provided in said Code in the event a violation of any of the provisions occurs in the execution of this Agreement.
- B. These wage rate determinations are made a specific part of this Agreement by reference pursuant to Labor Code Section 1773.2. General Prevailing Wage Rate Determinations may be obtained from the Department of Industrial Relations Internet site at http://www.dir.ca.gov/.
- C. After award of the Agreement, and prior to commencing work, all applicable General Prevailing Wage Rate Determinations, if applicable, are to be obtained by the Vendor from the Department of Industrial Relations. Theses wage rate determinations are to be posted by the Vendor at the job site in accordance with Section 1773.2 of the California Labor Code.
- D. Vendor agrees to include prevailing wage requirements, if applicable, in all subcontracts when the work to be performed by the subcontractor under this Agreement is a "public works" as defined in Labor Code Section 1720(a)(1) and Labor Code Section 1771.
- 12. ASSIGNABILITY OF AGREEMENT. It is understood and agreed that this Agreement contemplates personal performance by the Consultant and is based upon a determination of its unique personal competence and experience and upon its specialized personal knowledge. Assignments of any or all rights, duties or obligations of the Consultant under this Agreement will be permitted only with the express written consent of the City.
- 13. TERMINATION FOR CONVENIENCE OF CITY. The City may terminate this Agreement any time by mailing a notice in writing to Consultant that the Agreement is terminated. Said Agreement shall then be deemed terminated, and no further work shall be performed by Consultant. If the Agreement is so terminated, the Consultant shall be paid for that percentage of the phase of work actually completed, based on a pro rata portion of the compensation for said phase satisfactorily completed at the time the notice of termination is received.

14. CONFORMANCE TO APPLICABLE LAWS. Consultant shall comply with its standard of care regarding all applicable Federal, State, and municipal laws, rules and ordinances. No discrimination shall be made by Consultant in the employment of persons to work under this contract because of race, color, national origin, ancestry, disability, sex or religion of such person.

Consultant hereby promises and agrees to comply with all of the provisions of the Federal Immigration and Nationality Act (8 U.S.C.A. 1101 *et seq.*), as amended; and in connection therewith, shall not employ unauthorized aliens as defined therein. Should Consultant so employ such unauthorized aliens for the performance of work and/or services covered by this Agreement, and should any agency or instrumentality of the federal or state government, including the courts, impose sanctions against the City for such use of unauthorized aliens, Consultant hereby agrees to, and shall, reimburse City for the cost of all such sanctions imposed, together with any and all costs, including attorneys' fees, incurred by the City in connection therewith.

- 15. WAIVER. In the event that either City or Consultant shall at any time or times waive any breach of this Agreement by the other, such waiver shall not constitute a waiver of any other or succeeding breach of this Agreement, whether of the same or any other covenant, condition or obligation. Waiver shall not be deemed effective until and unless signed by the waiving party.
- 16. INCONSISTENT OR CONFLICTING TERMS IN AGREEMENT AND EXHIBITS. In the event of any contradiction or inconsistency between any attached document(s) or exhibit(s) incorporated by reference herein and the provisions of the Agreement itself, the terms of the Agreement shall control.

Any exhibit that is attached and incorporated by reference shall be limited to the purposes for which it is attached, as specified in this Agreement. Any contractual terms or conditions contained in such exhibit imposing additional obligations on the City are not binding upon the City unless specifically agreed to in writing, and initialed by the authorized City representative, as to each additional contractual term or condition.

17. AMBIGUITIES. This Agreement has been negotiated at arms' length between persons knowledgeable in the matters dealt with herein. Accordingly, any rule of law, including, but not limited to, Section 1654 of the Civil Code of California, or any other statutes, legal decisions, or common-law principles of similar effect, that would require interpretation of any ambiguities in this

Agreement against the party that drafted this Agreement is of no application and is hereby expressly waived.

- 18. VENUE. This Agreement and all matters relating to it shall be governed by the laws of the State of California and any action brought relating to this agreement shall be held exclusively in a state court in the County of Merced.
- 19. AMENDMENT. This Agreement shall not be amended, modified, or otherwise changed unless in writing and signed by both parties hereto.
- 20. INTEGRATION. This Agreement constitutes the entire understanding and agreement of the parties and supersedes all previous and/or contemporaneous understanding or agreement between the parties with respect to all or any part of the subject matter hereof.
- 21. AUTHORITY TO EXECUTE. The person or persons executing this Agreement on behalf of the parties hereto warrants and represents that he/she/they has/have the authority to execute this Agreement on behalf of their entity and has/have the authority to bind their party to the performance of its obligations hereunder.
- 22. COUNTERPARTS. This Agreement may be executed in one or more counterparts with each counterpart being deemed an original. No counterpart shall be deemed to be an original or presumed delivered unless and until the counterparts executed by the other parties hereto are in the physical possession of the party or parties seeking enforcement thereof.

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed on the date first above written.

Corporati	on	
BY:		
	City Manager	

A California Charter Municipal

CITY OF MERCED

ATTEST: STEPHANIE R. DIETZ, CITY CLERK
BY: Assistant/Deputy City Clerk
APPROVED AS TO FORM:
BY: Phada a hnh 413/z City Attorney Date
ACCOUNT DATA: BY:
Verified by Finance Officer

CONSULTANT NATIONAL DEMOGRAPHICS, INC., A California Corporation

BY:
(Signature)
(Typed Name)
Its:
(Title)
BY:
(Signature)
(Typed Name)
Its:
(Title)
Taxpayer I.D. No
ADDRESS: P.O. Box 5271
Glendale, CA 91221
TELEPHONE:
FAX:
E-MAIL:



Summary Scope of Work

NDC tailors each project to the needs and goals of each jurisdictions. Below is a typical NDC-suggested timeline and description of project elements for work with the City and its independent redistricting commission.

The dates provided below are general guidelines and will vary according to the goals, project choices, and deadlines of each jurisdiction.

This timeline is subject to change based on ongoing changes in the date when official population data will be available and possible changes in state deadlines.

	Project Planning and decisions on public mapping
April – May	tools, whether to use a commission, and other
	project options. Begin project communications
	and outreach.
	Any mapping tools prepared with preliminary
May – September	population data; initial pre-draft-map hearing(s)
	held.
	Census data received and processed; draft maps
October – January	prepared, considered, and revised (in hearings
	and, if desired, less formal public workshops)
January – April	Final plan revisions made and plan adopted and
	implemented.

Detailed Project Scope of Work

April - May, 2021: Project Planning and Initial Outreach

- a. NDC works with the jurisdiction to prepare a detailed project timeline of expected outreach efforts, public forums, formal hearings, draft map dates, and final map adoption dates.
- NDC works with the jurisdiction staff (or contract specialized outreach staff

 see notes below about that option if interested) to prepare a project
 outreach plan for all steps of the process covering target audiences, contact
 lists, social media efforts, any potential postcard mailings, utility bill inserts,
 flyers for distribution at schools, media briefings, and community group
 contacts.
- c. Decide what public mapping tool(s) to provide, if any.
- d. Decide whether to use a commission.



- e. Create the project website: NDC will provide advice and text for the jurisdiction's website, or as an optional project element NDC will build a project website that the jurisdiction can simply link to from the jurisdiction site.
- f. NDC will work with jurisdiction and County Registrar staff to confirm GIS boundaries and to identify and include in our redistricting database any available GIS data that NDC and the jurisdiction identify are likely to be useful as mapping references for NDC, the public, and for the jurisdiction.
- g. Project outreach begins with initial alerts and 'invitations to participate' sent out to the general public, to overlapping jurisdictions, and to community organizations.

May - September, 2021: Initial Data Analysis and Initial Hearings / Forums

- h. NDC prepares total population estimates for use in initial hearings and any public mapping tools.
- i. NDC adds socio-economic data from the Census Bureau's American Community Survey to the state demographic data.
- j. NDC matches the demographic database to the existing election areas.
- k. NDC prepares a report regarding the demographics and compliance with state and federal criteria of the existing election areas, including maps of "protected class" population concentrations and other socio-economic data often referenced in redistricting (such as income, education levels, children at home, language spoken at home, renters / homeowners, and single-family / multi-family residences).
- NDC report is circulated to the jurisdiction and into the project outreach messaging.
- m. Hearings / Forums: NDC presents an overview of the redistricting laws and criteria, jurisdiction demographics, and the population balance of the existing election areas and their compliance (or possible lack thereof) with state and federal requirements.
- n. The project timeline and outreach plan are presented to the public for comments and feedback, along with a request to the public to provide guidance on what residents consider key neighborhoods, communities of interest, and other project-related regions in the jurisdiction.



- o. If the optional public mapping tools and/or Public Participation Kit are included in the project, their use is demonstrated to the public.
- p. If the optional public mapping tools and/or Public Participation Kit are included in the project, NDC provides email and phone support for any residents with questions regarding their use.
- q. If the optional public mapping tools and/or Public Participation Kit are included in the project, at the jurisdiction's option additional public forums on the use of those tools can be provided.
- r. Outreach efforts continue with messaging to the public, with special focus on community groups with an interest in the redistricting.

October - January, 2021: Draft Mapping Time

- s. 2020 Census total population counts released and California Statewide Database completes "prison adjustments" of the data. Total population counts in outreach materials and mapping tools are updated with the official Census data.
- t. If the existing election areas are in compliance with state and federal rules and balanced, the jurisdiction decides whether to stop at this "Still Balanced" point or to continue with a standard redistricting.
- u. Outreach efforts continue with messaging reminding the public of the opportunity to provide written or mapped input on how the maps should be drawn and welcoming any maps residents with to submit.
- v. The public deadline for submitting any initial draft maps will be approximately seven days prior to the official deadline to post all draft maps online (to provide NDC time to process any draft maps received, and for NDC to develop our own two to four initial draft maps).
- w. All outreach channels are used to inform the public about the opportunity to submit draft maps and to encourage participation in the review of the upcoming draft maps.
- x. NDC processes all public draft map submissions, drafts NDC's draft maps, summarizes all of the draft maps. The maps, related demographics, and summaries are provided by NDC in web-friendly formats. These process maps are posted on the project website and on the NDC-provided interactive review map.



- y. At the jurisdiction's option, one or more informal workshops or public forums are held to gather residents' reactions to and preferences among the draft maps.
- z. The jurisdiction holds a hearing to review the draft maps, narrow down the list of initial draft maps, and provide direction on any desired new or revised maps.
- aa. Time provided for the public to submit any new maps and for NDC to provide maps based on the direction at the hearing. During this time, additional outreach is conducted to inform interested residents and community groups of the selected 'focus maps' and the remaining opportunities to participate in the process.

January - April, 2022: Map Adoption

- bb. Any new or revised maps, related demographics, and summaries are posted on the project website.
- cc. At the jurisdiction's option, one or more informal workshops or public forums are held to gather residents' reactions to and preferences among the remaining maps.
- dd. One or more hearings are held to continue the review and refinement of the focus maps and, ultimately, adopt the final map.
- ee. Outreach continues to inform residents and community groups of the progress of the project, opportunities for future participation, and, ultimately, which map is adopted.
- ff. Following map adoption, NDC coordinates map implementation with the County Registrar, informing the jurisdiction staff of the progress, any issues, and ultimate completion of that work.
- gg. NDC works with the jurisdiction staff to ensure preservation of all project data and records, including GIS-format versions of the adopted map.



Project Pricing

optional expenses):\$ 28,500
2. Per-Meeting expense:
• In-person attendance, per meeting\$ 2,750
• Virtual (telephonic, Zoom, etc.) attendance, per meeting\$ 1,250
For each meeting, NDC will prepare meeting materials, including presentation materials and maps; present and explain key concepts, including mandatory and traditional redistricting criteria and "communities of interest"; facilitate conversations; answer questions; and gather feedback on existing and proposed boundaries.
Per-meeting prices include all travel and other anticipated meeting-related expenses. Telephone calls to answer questions, discuss project status, and other standard project management tasks do not count as meetings and do not result in any charge.

1. Basic Project Elements (covers everything except for per-meeting and

3. Optional Project Elements:

	_	,	
a)	Project w	ebsite	\$ 4,500

- b) Online mapping tool options:
 - Caliper's "Maptitude Online Redistricting" (MOR).....\$ 7,500
 - Tuft University's "DistrictR" \$3,500
 - ESRI Redistricting*
- c) Public Participation Kit mapping tool:
 - i. With MOR or ESRI online mapping tool......incl. at no add'l charge
 - ii. Without MOR or ESRI online mapping tool.....\$ 4,000
- e) Additional outreach assistance.....separately contracted

Other Potential Project-Related Expenses:

The most common additional project expenses would be any site or staff costs for conducting the community forums and the cost of printing or copying paper copies of the "Public Participation Kit." In NDC's experience, most participants will download and print the Kits in their own homes or offices.

^{*} ESRI prices its software on a jurisdiction-by-jurisdiction basis. The lowest prices we have seen are \$80,000 and up. If that is an option the jurisdiction would like to pursue, NDC will request a specific price for your jurisdiction from ESRI.



Additional Analysis

NDC is happy to assist with any additional analysis that the client requests at our standard hourly rates:

Principal (Dr. Douglas Johnson)	\$300 per hour
Vice President (Justin Levitt)	\$250 per hour
Senior Consultant	\$200 per hour
Consultant	\$150 per hour
Analyst / Clerical	\$50 per hour

Dr. Johnson is also available for deposition and/or testimony work if needed, at \$350 per hour.

Requested Payment terms:

NDC requests that the "Still Balanced" project fee be paid at the start of the project; that the difference between the "Still Balanced" fee and half of the "Basic Project Elements" be paid once the decision to update the district lines is made; and the balance of the project costs be paid at the conclusion of the project.

Exception: "Still Balanced" Jurisdictions

For a few jurisdictions, the existing election areas will still meet the equal population and voting rights act requirements using new 2020 Census data and the requirements of California's new "Fair Maps" law. These jurisdictions have the option simply retain the existing map without drawing and holding hearings on alternative maps. For jurisdictions electing this approach, the project would conclude with that decision.

Includes all the services listed below: \$5,500

- Compile total population and Citizen Voting Age Population data.
- Import existing election area lines.
- Compile population data by election area and calculate population deviations, prepare memo summarizing findings.

"Still Balanced" optional project elements and per-meeting expenses

Meeting attendance and optional project elements are not included in the "minimal change" project base fee. If requested, NDC team members participate in "minimal change" project hearings or forums at the same "per meeting" expenses, and optional project elements are provided at the same prices listed for a standard project in the previous section of this proposal.



Details of Optional Project Elements

Outreach Assistance

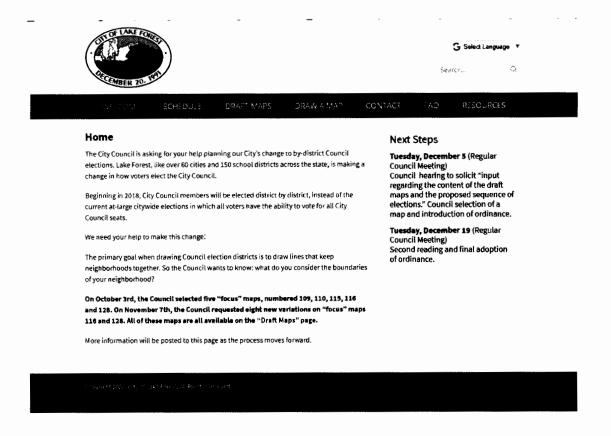
NDC brings topical expertise to your jurisdiction's outreach efforts, and NDC makes available to all clients our library of sample outreach materials including op-ed articles, postcards, utility bill inserts, flyers, and social media messages. NDC provides all of these materials along with our advice and input on outreach strategy and materials to any interested jurisdiction, but we do not have graphic artists to customize or design such materials in-house.

For larger-scale outreach efforts, especially where jurisdictions wish to send representatives out to regular meetings of existing community organizations, NDC typically works together with a jurisdiction's in-house communications staff and/or with one or more outreach organizations. We often work with, and highly recommend, Tripepi-Smith, and some information on the services they offer is included at the end of this proposal. And we would be happy to work with any in-house team at the jurisdiction or with any firm or organization the jurisdiction selects. Many projects can be handled by a jurisdiction's in-house or regular outreach and communications teams (with samples and topic expertise provided by NDC), but a number of jurisdictions seek supplemental outside communications assistance.

Project Website

NDC provides all project materials in website-friendly formats for posting on the jurisdiction's website. At no cost, NDC will provide project website samples and website language for use on the jurisdiction's project website. But for jurisdictions that prefer not to take on the challenge of creating and managing a rapidly-changing project website, NDC will create, host, and update project website (visit to see one such site – though note that site was created prior to passage of the new AB849 requirements).





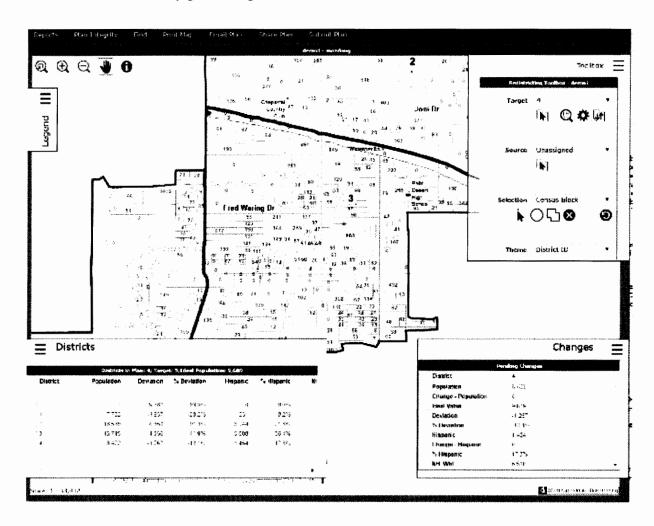
Background on Online Mapping Tool Options

NDC is the unmatched leader in redistricting tools that empower residents to review draft maps and to develop and submit their own map proposals. NDC is the only firm that has used the online mapping solutions from both ESRI and Caliper Corporation in major redistricting projects.

Only NDC has repeatedly trained members of the public, processed public map submissions, and presented the public map proposals to public hearings and commission meetings. NDC's online mapping tool options provide user support, hosting, managing, and processing submitted plans for an online interactive system that allows public to draw and submit proposed maps through a standard web browser.

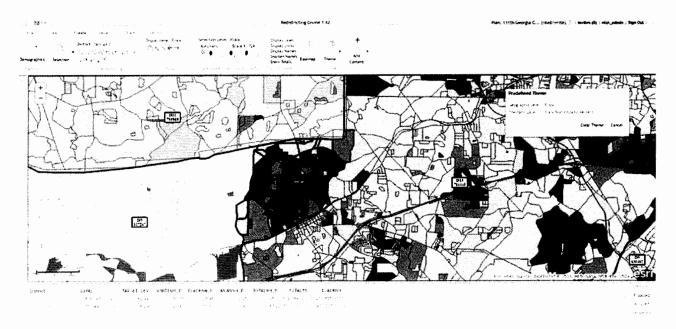


In the more than 200 California local districting projects between 2012 and 2020, NDC is the only consultant providing clients access to Caliper Corporation's "Maptitude Online Redistricting" tool. Even with the technical challenges arising from such tools' power and flexibility, NDC's training and encouragement frequently results in 10, 20, 30 or more different maps drawn by residents of the school district or city providing that tool to its residents.





The other primary public mapping tool currently on the market is ESRI's online districting tool. While easy to use, the ESRI product costs significantly more. As a result, traditionally only the largest jurisdictions have been able to afford it.



When it is time to start the project, NDC will work with each interested client to determine which, if any, online mapping tool best meets the goals and budget of the jurisdiction.

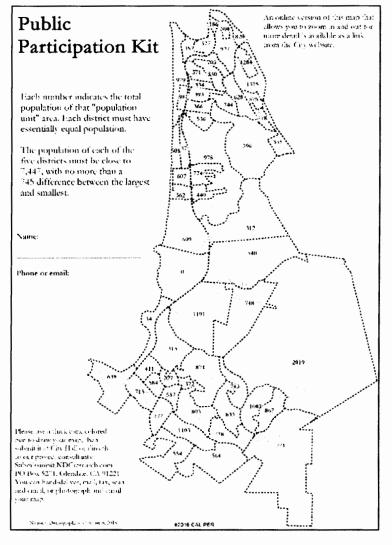


Paper- and Excel-based Public Mapping Tools

While online mapping tools are very popular, NDC never forgets those residents who do not have internet access or who simply prefer to not drawing maps online.

At no cost with every online mapping tool, and as a separate option for jurisdictions that for budget or other reasons do not include an online mapping tool, NDC offers our "Public Participation Kit." Each "Kit" includes two formats.

The first, and most simple, Kit is a one-page map showing city borders, streets, population counts for NDC-"Population created Unit" geographic areas. Residents draw the map they wish to propose and add up population counts by hand until they get the right population count



district. All of the directions needed are right on the single-page form. Examples of these tools, from our work for the City of Lake Forest, are available here: https://drawlf.org/draw-a-map/.

The second form of offline mapping tool is for those residents who do not want to deal with an online mapping tool, but who are already comfortable with Microsoft Excel. NDC provides a similar simple one-page map of those same "Population Units," but this time the map shows the Unit ID number rather than the population count in that Unit. Residents then enter their preferred district assignment for each Population Unit into the pre-formatted Excel spreadsheet (also available on the Lake Forest website), and Excel calculates the total population and demographics of each District. When the resident has the map the way they like it, they simple email in the Excel file.