

1120 SW Fifth Avenue, Suite 800 Portland, OR 97204 503.823.5185 Fax 503.823.7576 TTY 503.823.6868 www.portlandoregon.gov/transportation

Dan Saltzman Commissioner Leah Treat Director Flexible Service Task Order

Contract # 30005277

Project: Outer D	ivision Multi Modal Safety Project			Task Order #:	2
SAP Cost Object:	T00629.D42	Consultant	CH2M Hill	Engineers, Inc	
(PBOT)Project			Phone:		
Manager:	Liz Mahon		Prione.	503,823.0396	
(Consultant)Task Order Manager:	Kristin Hull		Phone:	503.235.5000	
Bureau / Division:	Project Management		-		
Funding Source:	General Funds	Total Cont	ract Value:	\$ 625,000.00	alaalla aa Millio ahaa ahaa yoof ay ayyo oo yoo oo a
Effective date of		Original Task Ori	der NTE Valu	e: <u>\$ 292.209.45</u>	
Work Order:	As signed by all	Revised Task On	der NTE Valu	e:	
Expiration Date:	02/28/2018				ngda an da an d
		Is Task Order Funds Encur		Received and a second se	
	Total of a	II Task Order Funds Encun	nbered to Dat	e: <u>\$ 492,616,57</u>	

Statement / Scope of Work is attached hereto and incorporated herein by this reference. The City of Portland pays on a net 30 day basis after receipt of invoice. Please reference Contract # / Purchase Order # / Task Order # on all invoices submitted for payment.

Approved by:

717 Date **Division Manager**

Financial Analyst

Contracts

Acceptance of Terms by Consultant:

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	David Simmons	Simmons Date: 2017.07.03 14:03:14 -07'00'
	Name	Date
L	2020 SW 4th Avenue, Suite Address	300

Portland, OR 97201 City, State, Zipcode

Dave.Simmons@CH2M.com E-Mail address:



The Portland Bureau of Transportation fully complies with Title VI of the Civil Rights Act of 1964, the ADA Title II, and related statutes and regulations in all programs and activities. For accommodations, complaints and information, call (503) 823-5185, City TTY (503) 823-6868, or use Oregon Relay Service: 711.

DMWESB Participation for this Task Order

Consultant agrees they will use the following subconsultants on this Task Order in the following percentages and/or dollar amounts listed:

Subconsultant(s) to be used	(DBE		icatio	ESB	Percentage of Total TO	Total Dollars Committed per TO
Nevue Ngan	1	\checkmark		1	8.1%	\$ 23,585.00
Global Transportation Engineering					12.3%	\$ 36,040.00
	Lamoos	-				

Procurement Services to complete this section

Cumulative DMWESB Participation for the Entire Contract

Current DMWESB participation is \$39,484 ; Subconsultant Total -100%; Contract Total - 19.7%

Proposed DMWESB participation is \$99,109 ; Subconsultant Total-100%; Contract Total - 20.1%

VBOT Orector/Designee Signature

5/17 Date 7

Larry Pelatt Digitally signed by Larry Pelatt Date: 2017.07.06 12:14:47 -07'00'

Chief Procurement Officer Signature

Date

City of Portland – Outer Division Multi-Modal Safety Project On-Call Task

CH2M Scope of Work

June 20, 2017

Purpose

CH2M (CONSULTANT) has been assigned the Outer Division Multi-Modal Safety project as task order to the 2016 civil design on-call contract. The project area is SE Division Street from 81st Avenue to the City limits east of 174th Avenue. The scope of the project includes buffered bike lanes between 81st and City limits, access management in the form of median islands, landscaping, enhanced pedestrian crossings and pedestrian scaled street lighting (if needed) at new crossings.

The purpose of this work is to provide public outreach support, conceptual design development, final design engineering and construction bid services for the Portland Bureau of Transportation (CITY).

Project Assumptions

- Work is expected to begin June 25, 2017 and will be completed by March 31, 2018
- The work will be completed, expenses included, within a budget of \$292,749.01
- The proposed concepts on this project will factor PBOT's Vision Zero and propose infill pedestrian crossings as necessary to achieve 530 foot maximum spacing between crossings.
- The proposed concepts on this project will factor TriMet's proposed Division Transit Project (DTP) improvements.
- The CITY will provide criteria for elimination of existing right turn lanes.
- The CONSULTANT will utilize survey information provided by TriMet. CITY will provide any supplemental survey requested by CONSULTANT. CONSULTANT will develop basemap using provided data.
- Designs for separated/buffered bike lanes will be prepared to attempt to avoid improvements outside of right-of-way. ADA improvements at intersections may require private property acquisition.
- Existing driveways will not be reconstructed or removed with this project, unless triggered by ADA
- Curb profiles for new medians will not be required. Curb profiles for new ADA ramps and crossings through medians will be required.

- Considerations for stormwater management (quality and quantity) will not be required on this project. There will be no full depth road reconstruction or increase in impervious area sufficient to trigger stormwater management.
- The CITY Project Manager and staff will be responsible for coordinating utility conflicts and relocations with the respective owners.
- Pavement marking within the corridor will be replaced in kind where impacted by the project.
- Permitting is not included.
- The design of RRFB's for four new pedestrian crossings are included. All other signal design or modifications are excluded – this includes excluding the design of new HAWKs and at existing signals, the introduction of bike-only/protected phases, and modifications to signal timing.
- CONSULTANT shall reference/utilize CITY standard drawings and details applicable.

Consultant Tasks and Deliverables

Task 1 - Project Management and Administration

Task 1 Activities:

- CONSULTANT will prepare project execution plan and quality management plan for the project team describing the issues and work tasks involved in the design of this project. The design team will use these instructions as a guide for project tasks, budgets, and schedule.
- CONSULTANT will coordinate and manage project development with the CITY Project Manager. Prepare monthly progress reports and billings for the project through design. Monitor scope, schedule and budget against milestones. Consultant will engage and consult team members and internal stakeholders as needed
- Bi-weekly meetings with CITY PM and CONSULTANT PM. CONSULTANT will provide email summaries of action items from each meeting.
- CONSULTANT will communicate with team members and sub-consultants, maintain files, prepare correspondence, prepare submittals, and provide guidance to the team is all part of coordinating and managing the design team. Formal activities include a kickoff meeting with up to four (4) team members.
- CONSULTANT will coordinate outcomes pertaining to access management, turn lane modifications and preservation of parking to the Metro and TriMet Division Transit Project teams at key milestones, deliverables and decision points, in order to inform the NEPA and Final Design work of that project in a succinct and timely fashion.

Task 1 Deliverables:

CONSULTANT will provide the following deliverables:

- 1. Project execution plan and quality management plan
- 2. Monthly invoice and progress report
- 3. Meeting attendance and agendas at three (3) inter-agency coordination meetings

Task 2 - Public Involvement Support

Task 2 Activities:

- CONSULTANT will support three (3) Community Meetings organized by the CITY by
 providing open house materials related to the design which may include display boards
 and roll map(s) of the design at each phase (concept, 60% and 95% plans). The first
 meeting will be held to evaluate concepts; the second meeting will be to share
 preliminary plans; and the third meeting will be to share construction plans, impacts and
 schedule. Up to three (3) members of the CONSULTANT team shall attend each meeting.
 - The CITY Project Manager will be responsible for scheduling the open house, finding a venue, and for mailers to notify surrounding residents/business owners.
 - CONSULTANT will prepare up to 6 display boards for each meeting in addition to roll plots, construction staging documents and project schedules developed in other tasks.
- CITY will maintain a project interested parties list. The CITY will track public comments in a comment log. The CITY will respond to comments.
- CITY will conduct up to five "office hour" sessions at community locations to review project plans and answer questions from business owners, residents and community members. "Office hour" sessions are drop-in times when community members can meet with CITY PM and CONSULTANT design staff to discuss project designs. CITY will schedule meetings. One (1) member of the CONSULTANT design team shall attend each session. CITY will document interactions and prepare summary following that will be shared with the CONSULTANT. CITY Project Manager shall attend "office hour" sessions. Each session will be up to two hours in length. Office hour sessions will rely on the most current design drawings, display boards and roll plots; the CONSULTANT will not prepare separate graphics or materials. CONSULTANT will not advertise sessions or recruit attendees.

Task 2 Assumptions:

- 1. CITY will prepare all translated materials
- 2. CITY will reserve and pay for all meeting rooms
- 3. CITY will establish and maintain a website

- 4. CITY will establish and maintain a project interested parties list and track public comment
- 5. CITY will be responsible for all media outreach
- 6. CITY will be responsible for all mailing, email and other project notifications

Task 2 Deliverables:

CONSULTANT will provide the following deliverables in the noted format:

- 1. Display board for three community meetings (PDF format)
- 2. Roll plots, roll plots, construction staging documents and project schedules developed in other tasks (as needed).

Task 3 – Concepts to Support Agency Approval/Coordination/Public Involvement

Task 3 Activities:

- CONSULTANT will develop up to three (3) iterations for access management in Jade (82nd to 92nd) and three (3) alternatives for the extents/configuration of access management in Midway (117th to 141st). Initial study will focus on identifying locations for a center barrier and the necessitated U-turn movements as well as identification of out-of-direction travel (all right turn movements) for oversize freight vehicles. CITY will provide traffic counts of sufficient veracity to allow CONSULTANT to develop accurate left/U-turn queue lengths at minor intersections. The CITY will provide the "design vehicle" for turning and U-turn testing and provide direction to the CONSULTANT on allowable out-of-direction travel routes (as noted in Task 3 Assumptions).
- In locations where medians are proposed, CONSULTANT shall develop treatment with wide medians with street trees (including a code review and cross-sectional study of the relationship between below-grade PWB conduits and root zones); and narrow medians with mountable curb (per ODOT's recent design standards). Where medians are constructed, CONSULTANT, in coordination with CITY, will evaluate and determine feasibility of incorporating pedestrian crossings at a maximum spacing of 530'.
- Figures of prototypical, indicative cross sections will be developed in a graphic style that is dimensionally accurate but understandable to lay audiences.

Task 3 Assumptions:

- 1. Driveway consolidation will not be considered as part of Project.
- 2. NACTO will be used as guidance in developing transitions from protected to shared environment.
- 3. F-450 turning template (53' outside radius) will be used for U-turn analysis.
- 4. Acceptable out of direction distance is 1/3 of a mile.

 Physical bike lane buffers will be designed to perpetuate curb side uses including sanitation and delivery services. CITY will provide acceptable minimum lengths for physical bike lane buffers.

Task 3 Deliverables:

CONSULTANT will provide the following deliverables in the noted format:

- 1. Roll Plot with locations of shared bike/right turn lanes identified existing and proposed for reconfiguration
- 2. Plan graphics of intersection treatments (up to 3 alternatives)
- 3. Roll Plot with extents of access management, U-turn locations and out of direction path of travel indicated (up to 3 alternatives in Jade and Midway)
- 4. Figures of prototypical, indicative cross sections in a graphic style that is dimensionally accurate but understandable to lay audiences.

Task 4 – Traffic Modeling/Lighting and Signal Design to Support Concept Development and Design

Task 4 Activities:

- The CONSULTANT will determine feasibility of eliminating a westbound lane between 92nd and 87th based on traffic analysis provided by TriMet's DTP. CONSULTANT will provide a brief memorandum to document results. Up to four AM and PM peak hour traffic counts will be collected.
- Provide lighting analysis at 4 new pedestrian crossings. CONSULTANT will provide a brief memorandum to document results.
- Develop Traffic Signal Plans for a Rectangular Rapid Flashing Beacon located at four new enhanced pedestrian crossings. CONSULTANT will conduct one field visit.
- Deliverables will be provided concurrent with Task 6, Task 8 and Task 9 Deliverables.

Task 4 Assumptions:

- 1. City standards will be followed.
- 2. No travel demand forecasting is required under this task.
- 3. Traffic modeling will be in Synchro format.
- 4. CITY will provide current lighting analysis for SE Division Street.
- 5. CITY will provide lighting analysis guidelines.
- 6. The AGI32 software package will be used for lighting analysis.
- 7. CITY will provide luminaire photometric files to ensure the appropriate IES files are used in the analysis.

Task 4 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

- 1. Draft and final traffic modeling memorandum (PDF)
- Memo documenting feasibility of eliminating a westbound lane between 92nd and 87th
- 3. Lighting analysis graphical output along with a lighting analysis results table (PDF)
- 4. Develop 60%, 95% and 100% plans

Task 5 - Landscaping Design to Support Concept Development and Design

Task 5 Activities:

- Develop up to three landscaping concepts for the median treatments in Task 3.
- Develop 60%, 95% and 100% plans

Task 5 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

- 1. Roll plot of updated project design (Hard Copy)
- 2. Meeting summary (PDF)

Task 6 – Design – 60%

Task 6 Activities:

- CONSULTANT will develop signing and striping design and layout including identified right turns for elimination and new bike box locations. The right turns proposed for elimination will be based on criteria provided by the CITY.
- CONSULTANT will develop access management strategies for Jade (82nd to 92nd) and Midway (117th to 141st) including median treatments, feasible U-turn locations, pedestrian crossing locations, interim physical bike lane buffer locations.
- Following the conceptual layout plan, CONSULTANT will conduct an over the shoulder review meeting with City staff to review the layout prior to advancing the 60% deliverable. CONSULTANT will prepare a meeting summary to document comments.
- CONSULTANT will develop the 60% design to include plans at intersection crossings with a standard typical section to inform the design through long stretches with similar treatments.
- CONSULTANT will develop 60% half size (11x17) construction plans to include:
 - o Cover Sheet 1

- Symbols and Abbreviations 1
- Sheet Layout Plan 1
- Typical Sections 2
- o Street Plans (Access Control)- 16
- o Enhanced Pedestrian Crossing Details and Profiles for ADA Route 4
- Striping Plans 16 (82nd, 92nd, 96th, 101st, 112th, 122nd, 130th, 136th, 145th, 148th, 157th, 162nd, 168th, 174th and two minor intersection treatments)
- Street Signing Plans 6
- o RRFB Plans 6
- CONSULTANT will develop the design Engineer's Estimate using the CITY Estimate Template based on the 60% design. Unit pricing will be based on available historical bid prices. A contingency of 20% will be used for the estimate at this submittal.
- CONSULTANT will review and identify technical specifications and anticipated special provisions for the project. CONSULTANT will prepare an outline of specifications to include with the 60% submittal.
- Following CITY review of the 60% submittal CONSULTANT will work the CITY Project Manager to schedule a comment review meeting. The meeting will be scheduled no sooner than two (2) days after receiving comments from the CITY. CONSULTANT will prepare initial responses to comments to be reviewed and discussed at the comment review meeting. CONSULTANT will prepare a summary of the meeting and provide a draft to the CITY Project Manager following the meeting.

Task 6 Deliverables:

CONSULTANT will provide the following deliverables in the noted format:

- 1. Meeting summary of over the shoulder conceptual layout review (PDF)
- 2. 60% Construction Plan Set (PDF).
- 3. 60% Engineer's Estimate (XLS)
- 4. Technical Specification outline (PDF)
- 5. 60% Comment review and response form (PDF)
- 6. Meeting summary from the 50% comment review meeting (PDF)

Task 8 – Design – 95%

Task 8 Activities:

- Following the 60% comment review meeting CONSULTANT will advance the design to a 95% level.
- CONSULTANT will develop construction plans to include:
 - o Cover Sheet 1

- Symbols and Abbreviations 1
- Sheet Layout Plan 1
- Typical Sections 2
- o Construction Details 4
- o ADA Ramp Details/Profiles 4
- o Erosion Control Plans 6
- o Horizontal Alignment Plans 16
- o Street Plans 16
- o Striping Plans 16
- Street Signing Plans 6
- o RRFB Plans 6
- CONSULTANT will prepare special provisions.
- CONSULTANT will develop design engineers estimate based on the 95% design. A contingency of 10% will be used for the estimate at this submittal.
- Following CITY review of the 95% submittal CONSULTANT will work the CITY Project Manager to schedule a comment review meeting. The meeting will be scheduled no sooner than two (2) days after receiving comments from the CITY. CONSULTANT will prepare initial responses to comments to be reviewed and discussed at the comment review meeting. CONSULTANT will prepare a summary of the meeting and provide a draft to the CITY Project Manager following the meeting.

Task 8 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

- 1. 95% Construction Plans (PDF)
- 2. 95% Engineer's Estimate (XLSX)
- 3. 95% Special Provisions (PDF)
- 4. 95% Comment review and response form (PDF)
- 5. Meeting summary from the 95% comment review meeting (PDF)

Task 8 Assumptions:

6. The CITY will prepare the Bid Book.

Task 9 - Final Design

Task 9 Activities:

- Following the 95% comment review meeting CONSULTANT will advance the design to a Final level and prepared stamped and sealed construction documents.
- CONSULTANT will develop the final construction plans to include:

- o Cover Sheet 1
- Symbols and Abbreviations 1
- o Sheet Layout Plan 1
- Typical Sections 2
- o Construction Details 4
- o ADA Ramp Details/Profiles 4
- o Erosion Control Plans 6
- o Horizontal Alignment Plans 16
- o Street Plans 16
- Striping Plans 18
- Street Signing Plans 6
- o RRFB plans 6
- CONSULTANT will develop special provisions.
- CONSULTANT will develop a final Engineers Estimate based on the 100% final design. A contingency of 5% will be used for the estimate at this final submittal.
- CONSULTANT will deliver to the CITY Project Manager:
 - One set of full size (22x34) plans (vellum or mylar) stamped and signed.
 - One electronic copy, on CD, of final plans (PDF), special provisions (Word and PDF), and Engineer's Estimate (XLSX, bid form (XLSX)).

Task 9 Deliverables:

CONSULTANT will provide the following deliverables in the noted format:

- 1. Final stamped and signed 22x34 Vellum or Mylar plans (Hard copy)
- CD with final files including plans, special provisions, Bid form, and Engineer's Estimate.

Task 9 Assumptions:

1. The CITY will prepare the Bid Book.

Task 10 - Mapping

Task 10 Activities:

- CONSULTANT will prepare base mapping and a digital terrain model (DTM) utilizing cloud point data provided by TriMet.
- Base map will consist of paint striping, curb flowlines, back of sidewalk, and driveway throats.

- DTM data will be extracted from flow line curb, to flowline curb, along with the additional pedestrian crossing areas.
- Provide additional detailed mapping at 4 pedestrian crossing locations for development of ADA compliant grading.

Task 10 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

- 1. Base map of paint striping, curb flowlines, back of sidewalk, driveway throat locations, and pedestrian crossing areas in Bentley Microstation V8 format
- 2. Digital Terrain Model (DTM) of area between curb flowlines and curb returns at up to 6 intersections (to supplement DTM provided by DTP).

Task 11 – Bid Assistance

Task 11 Activities:

- CONSULTANT will assist the CITY in answering questions and reviewing substitution requests during the bidding period. The CONSULTANT will forward all contractor calls directly to the CITY Procurement Services Manager. Direct communication between contractors and the CONSULTANT is prohibited.
- The CONSULTANT will attend the pre-bid meeting at the CITY. One (1) CONSULTANT staff will attend.
- The CONSULTANT will prepare up to two (2) addenda during the bidding period. The need and scope of any addenda will be determined in cooperation between the CONSULTANT and the CITY Project Manager. Addenda will be issued by the CITY.
- The CONSULTANT will update the drawings to as-bid status by incorporating addenda changes to the drawings. Upon completion of the as-bid drawings changes, the CONSULTANT will deliver to the CITY Project Manager:
 - One set of full size (22x34) plans (vellum or mylar), including the corrected sheets, stamped and signed.
 - One electronic copy, on CD, of final as-bid drawings, special provisions, bid form, engineers estimate, and Microstation CAD drawings, Inroads Alignment files and Inroads DTM files

Task 11 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

1. Up to two (2) addenda which may include plan and/or specification revisions and engineer's estimate updates (PDF).

- 2. Final as-bid stamped and signed full size (22x34) plans (vellum or mylar)
 - CD with final as-bid files including plans, special provisions, bid form, engineers estimate, and Microstation CAD drawings, Inroads Alignment files and Inroads DTM files

Task 12 - Services During Construction

Task 12 Activities:

- A budget of 80 hours is set to provide on-call support service during construction for CITY staff. Support may include reviewing items from the contractor including RFIs, change requests, developing changed design plans and preparing as-built plans.
 CONSULTANT will work as directed up to the provided budget.
- CONSULTANT will prepare as-built drawings.
- CONSULTANT will notify the CITY PROJECT MANAGER when ninety (90) percent of the budget has been used to discuss whether an amendment for additional hours is necessary.
- Deliverables will be electronic format (PDF, Word, CAD) as requested, whether response to a RFI, revised design sheets or as-built drawings.

Task 12 Deliverables:

CONSULTANT will provide the deliverables as requested up to the noted budget for this subtask, including:

- 1. As requested responses to RFIs (PDF)
- 2. As requested responses to change requests (PDF)
- 3. As requested revised design plans (PDF)
- 4. As-built drawings (PDF)

Task Order 2: Outer Division Multi Modal Safety Project	CH2M HIL							1									
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	Senior Manager K Hull	PIC J McGrath	Senior Engineer Sh Deleo	Staff Engineer C Cleusen	Technician/Drafter M Wainscott	Project Engineer J Bland	Staff Plenner E Montejo	Survey Manager Huriman	Surveyor Bittick	Sr. Technician Hobson	Office Staff	Proj Assist / Acc't	Total Labor Hours	Total Labor Dollars	Repro / Plots	Travel	Total Labor & Expenses
Billing Rate		\$275.75	\$192.20	\$113.68	\$102.08	\$188.42	\$91.23	\$151.62	\$91.79	\$108.50	\$115.94	\$113.68	TIMETO	Contra	reprovirion	Haver	Lagraniaca
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1.2 - Monthly Invoice and Progress Report (12 mo)	12										36	60	108	\$14,071.45			\$14,071.4
1.3 - Kickoff Meeting	4		4										12	\$2.897.38			\$2,897.3
1.3 - Inter-Agency Meetings (3)	6		12	6									24	\$4,526.87			\$4,526.8
1.4 - PM coordination meetings	40	12											84	\$19,715.38			\$19,715.3
Task 2: Public Involvement Support		1.00												•••••			•10,7 1010
2.1 - Community Meetings	24				Comment day is a parti		12			8	5 m/1		44	\$8,116.42		1.3.3.3.2.2.1	\$8,116.4
2.2 Office Hour Sessions	3		16				12						19	\$3,844.40			\$3,844.4
2.3 Prepare illustrations for Meetings	3		10									-	13	\$3,644.40			\$3,044.4
Z.3 Prepare inustrations for Meetings Task 3: Conceptual Design													-	90.06			9 0. 0
	2										<u>1.2.1201.2516</u>	S		\$25,257,37		·····	\$25,357,3
3.1 - Alternatives Development	2	8	60	60	24					16			170	\$25,257.37	\$100		\$25,357.3
Task 4: Traffic Modeling, Lighting and RRFB Design								1		100.53			-				40.0
4.1 - Traffic Modeling (Eliminating WB Lane 87th-92nd)			4										4	\$768.80	\$100		\$868.8
4.2 - Lighting Analysis (4 Crossings)													-	\$0.00			\$0.0
4.3 - RRFB Design (4 Crossings)			4										4	\$768.80			\$768.8
Task 5: Landscape Design											Maria a Surana		-	\$0.00			\$0.0
5.1 - Landescape Design			4		K	<u></u>	<u></u>		<u>المالية المركزة من المحمد ا</u>		b		4	\$768.80	\$100		\$868.8
Task 6: Design - 60%									7					\$700.00	\$100		4000.0
6.1 - Over the Shoulder Meeting		-0	4	4	Manna a ann	ain, i		<u>h</u>		han marine and		Annon a married	8	\$1,223.51	5.4. 0		\$1,223.5
						04							334				
6.2 - 60% Design Plans			50			24								\$42,180.83	\$300		\$42,480.8
6.3 - 60% Specs & Estimate			6			2							22	\$3,121.51			\$3,121.5
6.4 - 60% Comment Review Meeting			4	8									12	\$1,678.22			\$1,678.2
Task 8: Design - 95%			Lass are surged as your					4					Lancon march				
8.1 - 95% Design Plans			58										374	\$47,054.65	\$300		\$47,354.6
8.2 - 95% Special Provisions			4			2						4		\$2,509.77			\$2,509.7
8.3 - 95% Engineers Estimate			6			- 4							26	\$3,725.70			\$3,725.7
8.4 - 95% Comment Review Meeting			4	8									12	\$1,678.22			\$1,678.2
Task 9: Final Design				i	8. A												an hat will marge a
9.1 - Final Plans			16		40	2							96	\$11,855.08	\$1,500		\$13,355.0
9.2 - Special Provisions			4	8		1						8	21	\$2,776.07			\$2,776.0
9.3 - Final Engineers Estimate			4	6		1							11	\$1,639.28			\$1,639.2
Task 10: Mapping	and the second				1.555.57.59						<u> </u>	1					
10.1 Base Mapping and Digital Terrain Model				1	1		1	10	84	+			94	\$9,226.64			\$9,226.6
10.2 Additional Base Mapping (4 Crossings)								2	٤			-	10	\$1,037.57			\$1,037.5
Task 11: Bid Assistance	1	C	1			5					1						
11.1 - Bid Addenda			12	24						1			36	\$5,034.65	\$1,500		\$6,534,6
11.2 - As-Bid Documents			4										28	\$3,311.54			\$3,311.5
Task 12: Services During Construction	and a fundamental of				10			1	N.X. (1997)	100							
12.1 On-Call support			20	24	20								64	\$8,613.91			\$8,613.9
SUBTOTAL DESIGN			1.0		20					1000 N 1000							
	93	24	336	498	386	60	12	12	92	24	36	72	1,645				
	\$23,845	\$6,618	\$64,579	\$56,611	\$39,404	\$11,305	\$1,095	\$1,819	\$8,445	\$2,604	\$4,174	\$8,185	1,040	\$228,684.45	\$3,900		\$232,584.4
PROJECT TOTAL HOURS	93	24	336	498	386	60	12	12	92	24	36	72	4.845		Service of the second second	<u></u>	
PROJECT TOTAL HOURS PROJECT TOTAL AMOUNT		\$6,618	336 \$64,579	498	\$39,404	\$11,305	\$1,095	\$1,819	92 \$8,445	\$2.604	35 \$4,174	\$8,185	1,645	\$228,684.45	\$3,900,00		\$232,584.4
PROJECT TOTAL AMOUNT	323,043	30,010	816,206	\$30,011	\$39,404	\$11,305	\$1,080	91,01a	90,440	92,004	34,174	0,100		\$420,004.45	\$3,800.00		\$232,384.4

Task Order 2: Outer Division Multi Modal								01-1-1									
Safety Project	Nevue Ng	an						Global						_			
	Ngen	Goodyke	Total Labor Hours	Total Labor Dollars	Repro / Postage	Travel	Total Labor & Expenses	Principal/Proje ct Menager	Senior Project Engineer	Engineering Associate	CAD Designer	Total Labor Hours	Total Labor Dollars	Traffic Counts	Travel	Total Labor & Expenses	Grand Total
Billing Rate	\$145	\$96						\$130	\$130	\$115	\$85						
Task 1: Project Management & Administration	talk address			· · · · Staners mound	e e Burning		in the second se	wa . to alle . w and	matter nationalise	a production and the second	a. nothing	marine marine	whether war and the			A STATE OF A	\$44,394.6
1.1 - QMP	-		-	\$0			\$0			+		-	\$0 \$0			\$0 \$0	\$1,281.6
1.2 - Monthly Invoice and Progress Report (12 mo)	8	-	8	\$1,160			\$1,160	-				-				\$260	\$15,231.4
1.3 - Kickoff Meeting	2	2	4	\$482			\$482	2				2	\$260			\$260	\$3,639.3
1.3 - Inter-Agency Meetings (3)			-	\$0			\$0			-		-	\$0				\$4,526.8
1.4 - PM coordination meetings		1	-	\$0		······································	\$0					-	\$0			\$0	\$19,715.3
Task 2: Public Involvement Support	Mar all from		Soil and and a sund			F. ala antime Ma			" Strake	A. C. Market						1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	\$16,580.8
2.1 - Community Meetings			-	\$0	\$200		\$200					-	\$0			\$0	\$8,316.4
2.2 Office Hour Sessions			-	\$0			\$0		-				\$0			\$0	\$3,844.4
2.3 Prepare illustrations for Meetings	4	40	44	\$4,420			\$4,420	C. S.C. Standard and Street Street	11-111-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		State of Concession, State	-	\$0			. \$0	\$4,420.0
Task 3: Conceptual Design	MALITERICE	19 " E. M. LONE	St. N.	5. See 1		and a state of the	Salt	allen 200	- 1580-56	1 Minister		REPORT R	NAMA Y	1940	i he i	I. Million and A.	\$25,357,3
3.1 - Alternatives Development			-	\$0			\$0			-		-	\$0			\$0	\$25,357.3
				\$0		London and Contract of Contrac	\$0			1		-	\$0			\$0	\$0.0
Task 4: Traffic Modeling, Lighting and RRFB Design				A CONTRACTOR OF THE				V. 1.141.00 10 10	alle and a support			St. marrie	a www.eat	sprease and the second	man an a		\$34,997.6
4.1 - Traffic Modeling (Eliminating WB Lane 87th-92nd)				\$0			\$0	4	8	40		52	\$6,160	\$560	\$50	\$6,770	\$7,638.8
4.2 - Lighting Analysis (4 Crossings)			-	\$0			\$0	2	4	24		30	\$3,540		\$50	\$3,590	\$3,590.0
4.3 - RRFB Design (4 Crossings)				\$0			\$0				20	200	\$23,000			\$23,000	\$23,768.8
4.0 · Hiti D Dosign (+ croconigo)			-	\$0			\$0						\$0			\$0	\$0.0
Task 5: Landscape Design	N. 46 C. M. 3	funders of the second second	terra concerenciation estimated	and the second sec		Bantonen alle	Northan & Shirt and and	and the sum a suite of a	Xerniberth of an	A CONTRACTOR		all a the	and the second second second second		are so the second s		\$5,840.8
5.1 - Landescape Design	10	32	42	\$4,522	\$200	\$50	\$4,772	- ser - Brown all	~~		1	-	\$0		27 00000000 VA	\$0	\$5,640.8
Task 6: Design - 60%	four second second second first	and a state of the second second		the second second second	4200	Stand Street Street	anastrikaryan maran		and most fine	farmer and the second	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	·	and a second second second			and the second s	\$54,314.0
6.1 - Over the Shoulder Meeting	fammen e		1	\$0		an a	\$0					- 1	\$0			\$0	\$1,223.5
6.2 - 60% Design Plans	5	36	41	\$4,181			\$4,181					-	\$0			\$0	\$46,661.8
6.3 - 60% Specs & Estimate	3		5	\$627			\$627						\$0			\$0	\$3,748.5
6.4 - 60% Comment Review Meeting	2			\$482			\$482	2	2			- 4	\$520			\$520	
	Calina an anala	La and a la and a la a la a la a la a la	wa canyo up zo	\$402		1	70+0	£				-	4020			4020	\$2,000.2
Task 8: Design - 95%	a mur survey	18	22	\$2,308	C. B. H. S. C. Law	metter and a star	\$2,308			. The Martin States	and the state of the state	and the second second second	\$0	~~	141	\$0	59,397.3
8.1 - 95% Design Plans				\$2,308			\$2,300				-		\$0			\$0	40 FE-2.6 \$2,799.7
8.2 - 95% Special Provisions	2		2	\$290	-		\$290	1					\$0			\$0	\$4,254.7
8.3 - 95% Engineers Estimate	1							-				-					
8.4 - 95% Comment Review Meeting	2	2	4	\$482			\$482	2	2			4	\$520			\$520	\$2,680.2
Task 9: Final Design		and in the Bleener	an or so of the Barry	Ball & Martin Marines .	Satistica	M. C.R. Marris	allow much have a series on a		a a sund	for many history		S	a martine and a second		a mananta	A Succession of the second	\$19,694.4
9.1 - Final Plans	2			\$1,442	-		\$1,442	-				-	\$0			\$0	\$14,797.0
9.2 - Special Provisions	2		2	\$290			\$290					-	\$0			\$0	\$3,066.0
9.3 - Final Engineers Estimate		2	2	\$192			\$192					-	\$0			\$0	\$1,831.2
Task 10: Mapping	A STATE OF THE STATE	100 100 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Xv. 160325	APRIL STREET	1114-022-00		Mar	all all all a light	Aller and and		SECTION OF	0.0000.2.851	HILLICH DIGIE HALL	9 norma East		The second second	\$10,264.2
10.1 Base Mapping and Digital Terrain Model			-	\$0			\$0						\$0			\$0	\$9,226.6
10.2 Additional Base Mapping (4 Crossings)				\$0	L		\$0						\$0		· · ··································	\$0	\$1,037.5
Task 11: Bid Assistance	ALL	A second second	toma toma and				Martin Second and a	A. S. Sillie and the	A STATES				State and the second states		in marine .	F Same	\$11,666.1
11.1 - Bid Addenda		6		\$576			\$576					-	\$0			\$0	\$7,110.6
11.2 - As-Bid Documents		4	4	\$384			\$384		4	-	4	8	\$860			\$860	\$4,555.5
Task 12: Services During Construction	Cartan and a frank		a section	A manager and the second starting of the	X.3	(2	par star	A STATES		Call	The All and a state of the stat				\$9,901.9
12.1 On-Call support		8	8	\$768	1		\$768		4	-		4	\$520			\$520	\$9,901.9
SUBTOTAL DESIGN				profession and the second				· · · · · ·	a dama har	States and States		and the second second	B Sold and the second			y a State Balline	and some the second second
	47 \$6,815	170 \$16,320	217	\$23,135	\$400	\$50	\$23,585	28 \$3,640	48 \$6,240	204 \$23,460	24 \$2,040	304	\$35,380	\$560	\$100	\$36,040	\$292,209,4
	40,013	010,020		420,130		430	420,000	00,010	00,240	100,400	42,010		400,000	4000	0.00		4101120014
PROJECT TOTAL HOURS	47	170	217		and the set		minninens and a + + + +	28	48	204	24	304				in the second	www wereactioned our processes, s
PROJECT TOTAL AMOUNT		\$16,320		\$23,135	\$400	\$50	\$23,585		\$6,240		\$2,040		\$35,380	\$560	\$100	\$36,040	\$292,209.4
CH2M Individuals assigned to this project will be billed using							8.1%	-		-						12.3%	20.49





1120 SW Fifth Avenue, Suite 800 Portland, OR 97204 503.823.5185 Fax 503.823.7576 TTY 503.823.6868 www.portlandoregon.gov/transportation

Chloe Eudaly Commissioner Chris Warner Interim Director

Flexible Service Task Order

Price Agreement # 30005277

Project: Outer Division Multi Modal Safety Project	- Amended		_ Task Order #:	<u>Two (2) A</u>
SAP Cost Object: <u>T00629.D42</u>	Consultar	t: <u>CH2M Hill</u>	nka Jacobs	
(PBOT) Project Manager: <u>Liz Mahon</u>		Phone:	<u>503-823-0396</u>	
(Consultant) Project Manager: Kristin Hull		Phone:	<u>503-235-5000</u>	
Group/Division: Policy, Planning & Projects / Cap	ital Projects	$ \rightarrow $		
Price Agreement Rates Verified:		Agreement Value: k Order NTE Valu		
Task Order Effective Date: As signed by all				
Task Order Expiration Date: As stated in the Price Agre	Revised Ta	sk Order NTE Valu	le: <u>\$ 672,016.99</u>	
	s Task Order Funds I	ncumbered to Da	te: <u>\$ 528,832.48</u>	
Total of al	l Task Orderl Funds I	Encumbered to Da	te: <u>\$ 908,649.02</u>	
Scope of Work is attached hereto and incorporated herein Fee Schedule is attached hereto and incorporated herein a The City of Portland pays on a net 30 day basis after recei Please reference Price Agreement # / Purchase Order # /	as <u>Exhibit B</u> . pt of invoice.	voices submitted f	or payment.	
Approved by:		ice of Terms by		
PBOT Project Manager Da	nte Name			Date
Supervising Manager Da		/ 4th Ave, Suite	300	
Financial Analyst Dat	e <u>Portland</u> City, Sta	OR 97201 e, Zipcode		
Contracts Da	te <u>TBD</u> E-Mail Ad	Idress		



The Portland Bureau of Transportation fully complies with Title VI of the Civil Rights Act of 1964, the ADA Title II, and related statutes and regulations in all programs and activities. For accommodations, complaints and information, call (503) 823-5185, City TTY (503) 823-6868, or use Oregon Relay Service: 711.

DMWESB Participation for this Task Order

Consultant agrees they will use the following subconsultants on this Task Order in the following percentages and/or dollar amounts listed:

	(Certif	icati	on	Percentage of	Total Dollars
Subconsultant(s) to be used					Total TO	Committed per TO
	DBE	MBE	WBE	ESB		
NNA Landscape Architecture (#11076)	\checkmark	\checkmark] 🗸	4.26%	\$ 28,609.00
Global Transportation Engineering (#10033)	\checkmark	\checkmark	\checkmark		22.41%	\$ 150,605.00
Nelson Nygaard (#N/A)					.41%	\$ 2,750.00
Overall Revised D/M/W/ESB % Utilization					26.67%	\$ 179,214.00

Procurement	Services to complete this section
Cumulative DMWES	SB Participation for the Entire Price Agreement
Current DMWESB participation is	; Subconsultant Total; Price Agmt. Total
Proposed DMWESB participation is	; Subconsultant Total; Price Agmt. Total
PBOT Director/Designee Signature	Date
Chief Procurement Officer Signature	Date

Exhibit A

Scope of Work

Outer Division Multi-Modal Safety Project Amendment

January 11, 2019

Purpose

CH2M (CONSULTANT) is currently preparing preliminary plans for the Outer Division Multi-Modal Safety project as task order to the 2016 civil design on-call contract. The plans were previously completed through the 60% stage however the scope of the project has expanded to include 10 signalized crossings and 10 unsignalized crossings. Limits of access control median has expanded to include SE 103rd to SE 110th. The purpose of this amendment is to provide additional scope of services and level of effort for changes associated with the development of construction documents for the Portland Bureau of Transportation (CITY). The duration of this amendment is September 1, 2018 thru December 27, 2019.

Final scope of Project that will be taken to 100% plans with the current amendment:

• Access Management Median Islands and Protected Bike lanes on SE Division Street as follows:

80th – I-205 path – Protected bike lanes and access management median islands

96th/98th – 103rd – Protected bike lanes, no access management

103rd – 110th - Protected bike lanes and access management median islands

110th-125th - Protected bike lanes, no access management

125th – 142nd - Protected bike lanes and access management median islands

142nd – 174th - Protected bike lanes, no access management

• Signalized pedestrian crossings on SE Division at the following locations:

SE 80th (full signal), SE 85th (half signal), SE 89th (half signal), SE 104th (half signal), SE 139th (full signal), SE 151st (half signal), SE 154th (half signal), SE 160th (half signal), SE 166th (half signal), and SE 170th (half signal)

- Interconnect plans will be provided. Wireless radios with integrated panel antennas will be installed to connect the signalized pedestrian crossings described above to the City of Portland communications system.
- Unsignalized pedestrian crossings on SE Division at the following locations:

SE 81st, SE 84th, SE 87th, SE 90th, SE 105th, SE 109th, SE 131st, SE 133rd, SE 137th, and SE 141st $\rm ^{st}$

- The SE 92nd signal will be modified to align with the revised lane locations. Loop detectors will be relocated accordingly and two wireless radios with integrated panel antennas will be installed to connect the intersection to the City of Portland communications system.
- The pedestrian signal located mid-block east of 84th Ave will be relocated to 85th Ave and redesigned as a half signal. 84th Ave will be designed as an unsignalized pedestrian crossing.
- Signalized crossings include illumination. The illumination memo will be revised to add the SE 85th and SE 139th signals.
- Profiles for new ADA ramps and crossings will be required.
- Curb profiles for new medians will not be required.
- Striping plans (double-stacked at 1"=80') will be provided for sections without access management (96th - 103rd, 110th - 125th, 142nd - 174th)
- Design provides for detailed design of 57 additional curb ramps
- The four Rectangular Rapid Flashing Beacons in the original scope will no longer be included in the project. Those locations have been revised to be design as half signals.
- BES will review the 60% plans and provide design for any drainage improvements needed. CH2M will incorporate BES designs into the 95% plans and estimate.
- Design to be updated with new survey data to be provided by PBOT (collected in 2018).

Task 1 - Project Management and Administration

Task 1 Activities:

- CONSULTANT will coordinate and manage project development with the CITY Project Manager. Prepare monthly progress reports and billings for the project through design. Monitor scope, schedule and budget against milestones. Consultant will engage and consult team members and internal stakeholders as needed
- Bi-weekly meetings with CITY PM and CONSULTANT Design Team. Assume 10 meetings at one hour each. CONSULTANT will provide agenda and email summaries of action items from each meeting.
- CONSULTANT will communicate with team members and sub-consultants, maintain files, prepare correspondence, prepare submittals, and provide guidance to the team is all part of coordinating and managing the design team.
- CONSULTANT will coordinate outcomes pertaining to access management, turn lane modifications and preservation of parking to the Metro and TriMet Division Transit Project teams at key milestones, deliverables and decision points, in order to inform the Final Design work of that project in a succinct and timely fashion.

Task 1 Deliverables:

CONSULTANT will provide the following deliverables:

1. Monthly invoice and progress report

2. Meeting attendance, agenda and meeting summaries at up to 10 coordination meetings

Task 6 – Design – 60%

The plan set will be expanded to include designs that were not included in the 60% submittal.

Task 6 Activities:

- CONSULTANT will provide 60% submittal of new sheets listed below
- CONSULTANT will develop and advance construction plans to include:
 - o Cover Sheet 1
 - Symbols and Abbreviations 1
 - Sheet Layout Plan 1
 - Typical Sections 3
 - Survey Datum Sheet 1
 - Construction Details 4
 - ADA Ramp Details 23 [up to 4 ramps per sheet] (10 new)
 - ADA Crossing Profiles 19 (9 new)
 - Street Plans 39 (11 new)
 - Street Signing and Striping Plans 79 (43 new)
 - Signal and Interconnect Plans 44 (9 New)
 - Landscaping Plans 16
- CONSULTANT will prepare special provisions.
- CONSULTANT will develop design engineers estimate based on the 60% design. A contingency of 20% will be used for the estimate at this submittal.
- Following CITY review of the 60% submittal CONSULTANT will work the CITY Project Manager to schedule a comment review meeting. The meeting will be scheduled no sooner than two (2) days after receiving comments from the CITY. CONSULTANT will prepare initial responses to comments to be reviewed and discussed at the comment review meeting. CONSULTANT will prepare a summary of the meeting and provide a draft to the CITY Project Manager following the meeting.

Task 6 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

- 1. 60% Construction Plans (PDF): Plans complete, biddable and buildable
- 2. 60% Engineer's Estimate (XLSX)
- 3. 60% Special Provisions (PDF)
- 4. 60% Comment review and response form (PDF)
- 5. Meeting summary from the 60% comment review meeting (PDF)

Task 6 Assumptions:

6. The CITY will prepare the Bid Book.

Task 8 - Design - 95%

Task 8 Activities:

- Following the 60% comment review meeting CONSULTANT will advance the design to a 95% level.
- Consultant will incorporate BES drainage designs into the plans. It is assumed that 10 intersections will be impacted and two detail sheets will be added.
- CONSULTANT will develop and advance construction plans to include:
 - Cover Sheet 1
 - Symbols and Abbreviations 1
 - Sheet Layout Plan 1
 - Typical Sections 3
 - Survey Datum Sheet 1
 - Construction Details 6
 - ADA Ramp Details 23
 - ADA Crossing Profiles 19
 - Street Plans 39
 - Street Signing and Striping Plans 79
 - Signal and Interconnect Plans 44
 - Landscaping Plans 16
- CONSULTANT will prepare special provisions.
- CONSULTANT will develop design engineers estimate based on the 95% design. A contingency of 10% will be used for the estimate at this submittal.
- Following CITY review of the 95% submittal CONSULTANT will work the CITY Project Manager to schedule a comment review meeting. The meeting will be scheduled no sooner than two (2) days after receiving comments from the CITY. CONSULTANT will prepare initial responses to comments to be reviewed and discussed at the comment review meeting. CONSULTANT will prepare a summary of the meeting and provide a draft to the CITY Project Manager following the meeting.

Task 8 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

- 7. 95% Construction Plans (PDF): Plans complete, biddable and buildable
- 8. 95% Engineer's Estimate (XLSX)
- 9. 95% Special Provisions (PDF)
- 10. 95% Comment review and response form (PDF)

11. Meeting summary from the 95% comment review meeting (PDF)

Task 8 Assumptions:

12. The CITY will prepare the Bid Book.

Task 9 – Final Design

Task 9 Activities:

- Following the 95% comment review meeting CONSULTANT will advance the design to a Final level and prepared stamped and sealed construction documents. There will be no design changes following the 95% stage.
- CONSULTANT will develop the final construction plans to include:
 - o Cover Sheet
 - Symbols and Abbreviations
 - o Sheet Layout Plan
 - Typical Sections
 - Survey Datum Sheet
 - Construction Details
 - ADA Ramp Details
 - ADA Crossing Profiles
 - Street Plans
 - Street Signing and Striping Plans
 - Signal and Interconnect Plans
 - Landscaping Plans
- CONSULTANT will develop special provisions.
- CONSULTANT will develop a final Engineers Estimate based on the 100% final design. A contingency of 5% will be used for the estimate at this final submittal.
- CONSULTANT will deliver to the CITY Project Manager:
 - One set of full size (22x34) plans (vellum or mylar) stamped and signed.
 - One electronic copy, on CD, of final plans (PDF), special provisions (Word and PDF), and Engineer's Estimate (XLSX, bid form (XLSX)).

Task 9 Deliverables:

CONSULTANT will provide the following deliverables in the noted format when applicable:

- One (1) full-size, 22"x34" set of final design plans, stamped and signed, on vellum or mylar.
- One (1) half-size, 11"x17" set of final design plans in Adobe Acrobat (.PDF) format
- Electronic files in MicroStation (.dgn) Design File format. The MicroStation design files shall be kept on their original coordinate base. Level names that currently exist shall remain. New logical level names may be added as needed but must remain within the maximum 63 layers as

supported by the MicroStation level structure. All necessary MicroStation resource files (font libraries, line styles, etc.) shall be included with the returned set. File structure is to be organized so that the CADD operator can open the disk, go to a specific plan sheet and print the plan sheet in the final condition without having to reattach or move reference files. All files in MicroStation/InRoads format, file .dgn, .alg, .dtm and all CED cogo points.

- Digital Artwork for all new signs (custom) in Adobe Illustrator (.ai) format.
- CD with final files including plans, special provisions, Bid form, and Engineer's Estimate.
- 100% Comment review and response form (PDF), showing all responses have been addressed.

Task 9 Assumptions:

1. The CITY will prepare the Bid Book.

Task 10 - Mapping

Task 10 Activities:

- Consultant shall meet with a representative of PBOT's Survey Section prior to commencing final design to discuss electronic data files that will be needed for construction staking.
- Prepare electronic data files for construction staking with final PS&E. Design files to be provided will include design DTM, InRoads geometry, design file used to create DTM file, and others as specified in Task 4.1.4.
- Prior to full file transfer, **Consultant shall provide staking** data for one intersection so Survey Section can confirm that the appropriate information is included.

Task 10 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format when applicable:

- Meeting attendance at one meeting with CITY and surveyors.
- Separate survey stationing and file for each curb alignment and tied to centerline stationing.
- Crown lines, gutter lines, top of curb lines, backs of sidewalk and berm lines.
- Valley gutters and surface elevation of catch basins.
- Driveways and wheelchair ramps.
- Property lines, easements, work limits.
- Utility features including water lines, sewer lines, underground power and phone lines, and sawcut lines.
- Structures such as retaining walls, bridges, buildings and build doorways etc.
- Any additional features (concrete pads, tree wells, light pole bases, and traffic signals) that need to be staked.
- Horizontal curves within alignments need to be tangent curves, where incoming and outgoing tangents are perpendicular to the curves radius.
- A .dgn file representing the above features separated on discrete levels is required.

- A comma delineated ASCII file or "points list", of the features in the .dgn file is required in Point Number, Northing, Easting, Elevation, Description, (P,N,E,Z,D) format.
- A text file of profile information for crown lines, gutter lines, backs of sidewalk, and berm lines.
- Field Notes or Sketches showing location of each Survey Control Point.
- Surveying/Mapping work performed for the City of Portland must be referenced to the following:
 - Horizontal Coordinate System: Oregon State Plane Coordinate System, North Zone, NAD 83(91), International Feet
 - Vertical Datum: City of Portland Vertical Datum

Task 11 - Bid Assistance

Task 11 Activities:

- CONSULTANT will assist the CITY in answering questions and reviewing substitution requests during the bidding period. The CONSULTANT will forward all contractor calls directly to the CITY Procurement Services Manager. Direct communication between contractors and the CONSULTANT is prohibited.
- The CONSULTANT will attend the pre-bid meeting at the CITY. One (1) CONSULTANT staff will attend.
- The CONSULTANT will prepare up to two (2) addenda during the bidding period. The need and scope of any addenda will be determined in cooperation between the CONSULTANT and the CITY Project Manager. Addenda will be issued by the CITY.
- The CONSULTANT will update the drawings to as-bid status by incorporating addenda changes to the drawings. Upon completion of the as-bid drawings changes, the CONSULTANT will deliver to the CITY Project Manager:
 - One set of full size (22x34) plans (vellum or mylar), including the corrected sheets, stamped and signed.
 - One electronic copy, on CD, of final as-bid drawings, special provisions, bid form, engineers estimate, and Microstation CAD drawings, Inroads Alignment files and Inroads DTM files

Task 11 Deliverables:

CONSULTANT will provide the following deliverables electronically in the noted format:

- 1. Up to two (2) addenda which may include plan and/or specification revisions and engineer's estimate updates (PDF).
- 2. Final as-bid stamped and signed full size (22x34) plans (vellum or mylar)
 - CD with final as-bid files including plans, special provisions, bid form, engineers estimate, and Microstation CAD drawings, Inroads Alignment files and Inroads DTM files

Task 12 - Services During Construction

Task 12 Activities:

- A budget of 80 hours is set to provide on-call support service during construction for CITY staff. Support may include reviewing items from the contractor including RFIs, change requests, developing changed design plans and preparing as-built plans. CONSULTANT will work as directed up to the provided budget.
- CONSULTANT will prepare as-built drawings.
- CONSULTANT will notify the CITY PROJECT MANAGER when ninety (90) percent of the budget has been used to discuss whether an amendment for additional hours is necessary.
- Deliverables will be electronic format (PDF, Word, CAD) as requested, whether response to a RFI, revised design sheets or as-built drawings.

Task 12 Deliverables:

CONSULTANT will provide the deliverables as requested up to the noted budget for this subtask, including:

- 1. As requested responses to RFIs (PDF)
- 2. As requested responses to change requests (PDF)
- 3. As requested revised design plans (PDF)
- 4. As-built drawings (PDF)

Exhibit B Fee Schedule

					Fee Sc	hedule						
	А	В	С	D	E	F	G	Н	I	J	K	М
	Task Order 2, Amd 2: Outer Division Multi											
1	Modal Safety Project	CH2M HIL										
-	would Safety Project		L									
								Staff				
								Eng/Planner/Scien				
			Senior Engineer	Office Engineer	Technician/Drafter	Senior Engineer	Staff Engineer	/Arch/Staff	Total Labor			Total Labor &
2		Senior Consultant	Sharon	Cory	Manuela	Dearing	Belloc	Kestner	Hours	Total Labor Dollars	Repro / Plots	Expenses
3	Billing Rate	\$275.75	\$223.51	\$149.30	\$103.45	\$238.64	\$118.36	\$123.04				-
4	Task 1: Project Management & Administration											
5	1.1 - Execute Amendment, Coordination	0	16	4				24	44	\$7,126.32		\$7,126.32
6	1.2 - Monthly Invoice and Progress Report (12 mo		12						12	\$2,682.12		\$2,682.12
7	1.4 - Design coordination meetings (10)		10	20					30	\$5,221.10		\$5,221.10
8	Task 6: Design - 60%		10	20						<i>\$6,221.10</i>		\$0,221.10
9	6.1 - 60% Design Plans		108	248	308	40	304		1,008	\$138,555.12		\$138.555.12
9 10	6.2 - 60% Special Provisions	ł	4	240		40		4	1,008	\$138,355.12		\$3,057.88
11	6.3 - 60% Engineers Estimate	ł	4	16		4			32	\$5,184.28		\$5,184.28
12	6.4 - 60% Comment Review Meeting		4	8		4	0		32 12	\$5,184.28		\$5,164.26
12	Task 8: Design - 95%		4	0					12	φ 2,000.4 4		φ 2, 000.44
13	8.1 - 95% Design Plans		34	96	124	8	56		318	\$43,297.22		\$43,297.22
			-				50					
15	8.2 - 95% Special Provisions		4	8		1		2		\$2,573.16		\$2,573.16
16	8.3 - 95% Engineers Estimate		4	6		1			11	\$2,028.48		\$2,028.48
17	8.4 - 95% Comment Review Meeting		4	8					12	\$2,088.44		\$2,088.44
18	Task 9: Final Design					-					•	
19	9.1 - Final Plans		16	60		4	16		190	\$25,106.78	\$540	\$25,646.78
20	9.2 - Special Provisions		2	4		1		2	9	\$1,528.94		\$1,528.94
21	9.3 - Final Engineers Estimate		2	4		1			7	\$1,282.86		\$1,282.86
22	Task 10: Mapping											
23	10.2 Survey Coordination and Suppor			12					12	\$1,791.60		\$1,791.60
24	Task 11: Bid Assistance											
25	11.1 - Bid Addenda		4	8					12			\$2,112.44
26	11.2 - As-Bid Documents		4	16	16				36	\$4,938.04		\$4,938.04
27	Task 12: Services During Construction											
28	12.1 On-Call Support		12	24					36	\$6,265.32		\$6,265.32
29	SUBTOTAL DESIGN											
30		0	244	5 50	542	62	384	32	1,814			
31		\$0	\$54,536	\$82 ,115	\$56,070	\$14,796	\$45,450	\$3,937		\$256,904.54	\$540	\$257,468.54
32					,							
33												
34	PROJECT TOTAL HOURS	0	244	550	542	62	384	32	1,814			
35	PROJECT TOTAL AMOUNT	\$0	\$54,536	\$82,115	\$56,070	\$14,796	\$45,450	\$3,937	,	\$256,904.54	\$540.00	\$257,468.54
36		+-		··, · · · ·	+, 9	÷ · ·,· • •	÷,					
37	CH2M Individuals assigned to this project will be billed using	their actual ho	urly wage time	s a 3.10 multir	plier.							
38	en 211 manual de la bighter to tino project win be bined danig		any wage time									
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	Task Order 2, Amd 2: Outer Division Multi		•										1		
1		Nelson Ny	vgaard						NNA Land	Iscape					
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				-							-				
				Total Labor	Total Labor	D (Total Labor &		Landscape	Total Labor	Total Labor	- ·		Total Labor &
2		James McGrath	Other	Hours	Dollars	Repro / Postage	Travel	Expenses	Sr. Landscape	Architect	Hours	Dollars	Repro / Postage	Travel	Expenses
2	Billing Rate	\$275	\$96	nours	Donars	FUSIAGE	Havei	Expenses	\$145	\$104	Hours	Dollars	FUSIAGE	Traver	Expenses
4		\$275	\$90						φ145	\$104					
5	1.1 - Execute Amendment, Coordination	10		10	\$2,750			\$2,750	8		8	\$1,160			\$1,160
6	1.2 - Monthly Invoice and Progress Report (12 mo	10		-	\$0			\$2,750		2		\$498			\$498
7	1.4 - Design coordination meetings (10)			-	\$0			\$0		10		\$1,040			\$1,040
8	Task 6: Design - 60%				**							¢ 1,0 10			÷.,•.•
9	6.1 - 60% Design Plans			-	\$0			\$0	4	12	16	\$1,828			\$1,828
10	6.2 - 60% Special Provisions				\$0			\$0			-	\$0			\$0
11	6.3 - 60% Engineers Estimate				\$0			\$0		2	4	\$498			\$498
12	6.4 - 60% Comment Review Meeting			-	\$0			\$0			-	\$0			\$0
13	Task 8: Design - 95%														
14	8.1 - 95% Design Plans			-	\$0			\$0			-	\$0			\$0
15					\$0			\$0			-	\$0			\$0
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20	9.2 - Special Provisions				\$0			\$0				\$0			\$0
21					\$0			\$0				\$0			\$0
	Task 10: Mapping											•			
23	10.2 Survey Coordination and Suppor				\$0			\$0				\$0			\$0
	Task 11: Bid Assistance														
25				-	\$0			\$0			-	\$0 \$0			\$0
26	11.2 - As-Bid Documents			-	\$0			\$0			-	\$0			\$0
27	Task 12: Services During Construction 12.1 On-Call Support				\$0			\$0				\$0			\$0
28 29					\$U			\$0			-	\$0			\$0
30	SUBTUTAL DESIGN	10	0	10					16	26	42				
31		\$2,750	\$0	10	\$2,750	\$0	\$0	\$2,750		\$2,704	42	\$5,024	\$0	\$0	\$5,024
32		φ2,730	φυ		φ2,730	40	φU	φ2,7 30	φ2,320	ψ2,704		\$ 3,024	ψŪ	ψU	φ 3,0 24
33															
34	PROJECT TOTAL HOURS	10	0	10					16	26	42				
35	PROJECT TOTAL AMOUNT		\$0	10	\$2,750	\$0	\$0	\$2,750		\$2,704		\$5,024	\$0	\$0	\$5,024
36		ψ2,700	φ υ		φ2,100	ψŪ	ψŪ	φ2,100	Ψ2,020	ψ2,704		\$0,024	ψυ	ψυ	\$ 0,024
	CH2M Individuals assigned to this project will be billed using							24.4%							1.3%
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	Task Order 2, Amd 2: Outer Division Multi											
1	Modal Safety Project	Global										
		Principal /	Senior	Sr.			Total					
		Project	Project	Engineering	Engineering		Labor	Total Labor	Traffic		Total Labor &	
2		Manager 4	Engineer 5	Associate 4	Associate I	Tech XIV	Hours	Dollars	Counts	Travel	Expenses	Grand Total
3	Billing Rate	\$140	\$140	\$120	\$75	\$95						
4	Task 1: Project Management & Administration	0					0	¢000			¢000	\$25,237.54
5 6	1.1 - Execute Amendment, Coordination 1.2 - Monthly Invoice and Progress Report (12 mo	2 12					2 12	\$280 \$1,680			\$280 \$1,680	\$11,316.32 \$4,860.12
7	1.4 - Design coordination meetings (10)	20					20	\$2,800			\$1,880	\$4,860.12
8	Task 6: Design - 60%	20					20	\$2,000			<i>\$</i> 2,000	\$221,116.72
9	6.1 - 60% Design Plans	32	48	318	90	101	589	\$65.705			\$65,705	\$206,088.12
10	6.2 - 60% Special Provisions	4					10	\$1,400			\$1,400	\$4,457.88
11	6.3 - 60% Engineers Estimate	4	8				12	\$1,680			\$1,680	\$7,362.28
12	6.4 - 60% Comment Review Meeting	4	4				8	\$1,120			\$1,120	\$3,208.44
13	Task 8: Design - 95%											\$69,197.30
14	8.1 - 95% Design Plans	22			40	30	144	\$15,570			\$15,570	\$58,867.22
15	8.2 - 95% Special Provisions 8.3 - 95% Engineers Estimate	4					8	\$1,120			\$1,120	\$3,693.16 \$3.428.48
16 17	8.3 - 95% Engineers Estimate 8.4 - 95% Comment Review Meeting	4	-				10	\$1,400 \$1,120			\$1,400 \$1,120	\$3,428.48 \$3,208.44
17	Task 9: Final Design	4	4				0	\$1,120			\$1,120	\$3,208.44
19	9.1 - Final Plans	20	18	20	20	26	104	\$11,690			\$11,690	\$37,336.78
20	9.2 - Special Provisions	1	4	20			5	\$700			\$700	\$2,228.94
21	9.3 - Final Engineers Estimate	1					5	\$700			\$700	\$1,982.86
22	Task 10: Mapping											\$1,791.60
23	10.2 Survey Coordination and Suppor							\$0			\$0	\$1,791.60
24	Task 11: Bid Assistance											\$10,350.48
25	11.1 - Bid Addenda						-	\$0			\$0	\$2,112.44
26	11.2 - As-Bid Documents		10			20	30	\$3,300			\$3,300	\$8,238.04
27	Task 12: Services During Construction	12	40			4	20	£4.200			£4.200	\$10,565.32
28 29	12.1 On-Call Support SUBTOTAL DESIGN	12	16			4	32	\$4,300			\$4,300	\$10,565.32
30	SUBTUTAL DESIGN	146	152	370	150	181	999					
31		\$20,440	\$21,280		\$11,250	\$17,195	555	\$114,565	\$0	\$0	\$114,565	\$158,690.82
32		<i>\</i> _ 0,110	<u> </u>	\$ 11,100	<u></u>	\$ 11,100		¢,ccc		ţ.	¢,	¥.00,00010_
33												
34	PROJECT TOTAL HOURS	146	152	370	150	181	999					
35	PROJECT TOTAL AMOUNT	\$20,440	\$2 1,280	\$44,400	\$11,250	\$17,195		\$114,565	\$0	\$0	\$114,565	\$379,807.54
36												
	CH2M Individuals assigned to this project will be billed using										30.2%	31.5%
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<u>EXHIBIT C</u> AMENDMENT NUMBER <u>Two (2)</u>

CONTRACT NUMBER 30005277

FOR

<u>A & E Flex Service Price Agreement</u> <u>Street Design</u>

Pursuant to Ordinance Number TBD

This Contract was made and entered by and between <u>CH2M Hill Engineers, Inc.</u>, hereinafter called Consultant, and the City of Portland, a municipal corporation of the State of Oregon, by and through its duly authorized representatives, hereinafter called City.

- 1. This Contract is hereby extended through December 31, 2019.
- 2. Additional work is necessary to complete Task Order 2.
- 3. Additional compensation is necessary and shall not exceed \$283,649.02 for new not to exceed contract total amount of \$908,649.02. The new contract amount was calculated as follows:

\$500,000.00	(Original Contract Amount)
+ \$125,000.00	(Amendment 1)
+ \$283,649.02	(Amendment 2)
= \$908,649.02	(Total Not to Exceed Amount)

4. All other terms and conditions shall remain unchanged and in full force and effect.

CONSULTANT SIGNATURE

This Contract amendment may be signed in two (2) or more counterparts, each of which shall be deemed an original, and which, when taken together, shall constitute one and the same Contract amendment.

The parties agree the City and Consultant may conduct this transaction by electronic means, including the use of electronic signatures.

Consultant Name: Ch2M Hill Engineers, Inc.

Address: 2020 SW 4th Avenue, Suite #300

Portland, OR 97201-4973

Signature:	Date:

Name: ______

Title: ______

Contract Number: <u>30005277</u>

Contract Title: <u>A & E Flex Service Price Agreement Street Design</u>

CITY OF PORTLAND SIGNATURES

By:		Date:
	Commissioner	
Approv	ed:	
By:		Date:
	Office of City Auditor	
Approv	ed as to Form:	
By:		Date:
	Office of City Attorney	