

Transmittal

CS Transmittal No. 2088

To: Jeff Davis
FTA
201 Mission Street, Suite 1650
San Francisco, CA 94105

From: John Funghi
Project No./Contract No.: M544.1, CS-149
Task No./Title: 1-6.01/Interagency Coordination
Project Phase:

Date: October 16, 2012

Subject: Contract 1300- Stations, Track and Systems

Reference:

Sent via:	<input type="checkbox"/> mail	<input type="checkbox"/> overnight	<input type="checkbox"/> messenger	<input checked="" type="checkbox"/> hand-delivered
	<input type="checkbox"/> fax – No:		<input checked="" type="checkbox"/> email – Address:	Jeffrey.s.davis@dot.gov
The following:			For your:	
<input type="checkbox"/> copy of letter/memo	<input type="checkbox"/> estimate	<input checked="" type="checkbox"/> information/use		Due date: N/A
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<input type="checkbox"/> presentation	<input type="checkbox"/> review comment form	<input type="checkbox"/> response to comment		
<input type="checkbox"/> cd / dvd	<input type="checkbox"/> no review comment form	<input type="checkbox"/> concurrence		
<input type="checkbox"/> specifications	<input type="checkbox"/> review comments	<input type="checkbox"/> incorporation of comments		
<input type="checkbox"/> half-size drawings	<input type="checkbox"/> response to comments	<input type="checkbox"/> verification		
<input type="checkbox"/> full-size drawings	<input type="checkbox"/> concurrence with response	<input type="checkbox"/> signature		
<input type="checkbox"/> sketches/maps/layouts	<input type="checkbox"/> verification of incorporation	<input type="checkbox"/> acceptance/approval		
<input type="checkbox"/> reference material	<input type="checkbox"/> acceptance/approval	<input type="checkbox"/> other		
<input checked="" type="checkbox"/> other	Permit			

Item No.	Copies	Description	Rev. No.	Date
1	1	CN 1300 Combined Package To-Do List		10/02/12

If enclosures are not as noted, kindly notify us at once.

Remarks Please find attached Item 21 of PMOC's Central Subway Points of Action for SFMTA.



John Funghi
Program Director

JF:tw
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cc: David Kuehn, STV (w/attachment) – david.kuehn@stvinc.com
Brad Lebovitz, STV (w/attachment) – Bradley.lebovitz@stvinc.com
Eric Stassevitch, CSP (w/attachment)
Ross Edwards, CSP (w/attachment)
CS File No. M544.1.5.4020.a

Central Subway Stations, Track and Systems Contract 1300 is comprised of:

- Union Square/Market Street Station (UMS-1253)
- Chinatown Station (CTS-1254R)
- Yerba Buena/Moscone Station (YBM-1255)
- Surface, Track and Systems (STS-1256)

A. PROPOSAL AND CONTRACT FORMS

- Table of Contents
- Invitation for Proposals
- Instructions for Forms, Agreements and Bonds
- Information for Bidders
 General notes will describe: Contract 1253 has been cancelled - now included in Contract 1300; and description of changes from 1254 to the 1254R
- Proposal Form
- Bid Item Schedule will be 1 lump sum bid item with appropriate unit price items, allowances, and SEM Tool Box unit prices. The low bidder will be required to submit a breakdown by Station/STS 5 days after bid. Bid Item Schedule will include Passenger Service Cost (A+B)

B. GENERAL PROVISIONS

- Revised per City Attorney....

C. Special Provisions

- SP1 to describe basis of award, including (A+B)
- SP3 to describe two step NTP
- SP7 to describe revised insurance requirements
- SP29 describes Powell Street Station Elevator Design/Construct Scope and options
- SP 36 describes ATCS subcontractor assignment
- SP 37 describes Crossover X4 Option
- SP 38 describes 4th Street Sewer Design Construct Scope

D. TECHNICAL SPECIFICATIONS

- Table of Contents (attached)
- Reference to contract as **"This Contract 1300...."**
- First Use or Reference to Work at another Station or Systems Element:
 - ".....for Union Square/Market Street Station (UMS-1253)...."
 - ".....for Chinatown Station (CTS-1254R)"
 - ".....for Yerba Buena/Moscone Station (YBM-1255)...."
 - ".....for Surface, Track and Systems (STS-1256)....."
- For subsequent reference(s) within same technical specification section – *as needed*:
 - "....for UMS-1253"
 - "....for CTS-1254R....."
 - "....for YBM-1255....."
 - "....for STS-1256....."
 Reference may also be used with prepositions such as: **"applicable only to", "only at"**
- Where Specification Sections have a common title, but significantly different content for each of the 1253, 1254, 1255, and 1265 elements, a .XX suffix will be added to the section number and the title will be expanded to reinforce where it is applicable. There will be approximately 8 such sections. Example:
 - 01 55 26.53 Traffic Regulations (UMS)
 - 01 55 26.54 Traffic Regulations (CTS)

01 55 26.55 Traffic Regulations (YBM)

01 55 26.56 Traffic Regulations (STS)

A note will be included that correlates references to 01 55 26 Traffic Regulations (and similar) to the specific section based on contract element.

- Footer: Central Subway Stations, Track and Systems Contract 1300; 10 pt. Times New Roman Font – *standard*; Will be applied via PDF footer

E. DRAWINGS

- Cover sheet for each contract element will cite Contract 1300 and reference the enclosed drawings. Drawings will retain the contract and addendum history as currently exists.
- 1253 Drawings will depict 1253 as right Contract No. and cite changes through Addendum 10
- 1254R Drawings will depict 1254R as right side Contract No. and will cite "Issued for 1254R" lower left revision box along with addenda initially issued under 1253.
- 1255 and 1256 Drawings will depict 1255 and 1256 as right side Contract No and will cite "Issued of Bid" in lower left with no addend.

Contract 1300 Implementation Plan

Combines 1253/1254R/1255/1256

Proposals and Contract Forms

1300 Bid Schedule

Agreements and Bonds

General Provisions

Special Provisions

Tech Specs Division 1

Tech Specs Div 2-34
1253, 1254R, 1255, 1256

1253 Dwgs Add 9	1254R Dwgs	1255 Dwgs	1256 Dwgs
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Ref Docs 1253	Ref Docs 1254	Ref Docs 1255	Ref Docs 1256
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Advertisement

Pre Bid Conference

Addenda

Open Bids

Legend:

1253 = Union Square Market Street Station

1254R = Chinatown Station

1255 = Yerba Buena/Moscone Station

1256 = Surface, Track and Systems

Combined Contract
Front End, Special Provisions, Bid Item Lists & Division 1
Specifications

UMS	CTS-R	YBM	STS	<u>Division</u> or <u>Section No.</u>	<u>Description</u>
				<i>FRONT END</i>	
●	●	●	●		Table of Contents
●	●	●	●		Invitation for Proposals
●	●	●	●		Instructions for Forms, Agreement and Bonds
●	●	●	●		Information for Bidders
●	●	●	●		Proposal Form
●	●	●	●		Schedule of Bid Prices (Contract 1300)
●					Bid Prices Breakdown (UMS-1253)
	●				Bid Prices Breakdown (CTS-1254R)
		●			Bid Prices Breakdown (YBM-1255)
			●		Bid Prices Breakdown (STS-1256)
●	●	●	●		<i>General Provisions</i>
●	●	●	●		<i>Special Provisions</i>
				<i>Division 01 – GENERAL REQUIREMENTS</i>	
●	●	●	●	01 11 00	Summary of Work
●	●	●	●	01 12 17	Work Sequence and Constraints
●	●	●	●	01 12 19	Contract Interface
●	●	●	●	01 20 00	Price and Payment Procedures
●	●	●	●	01 21 00	Allowances
●	●	●	●	01 24 13	Value Engineering
●	●	●	●	01 25 00	Substitution Procedures
●	●	●	●	01 27 00.92	Dispute Review Board
●	●	●	●	01 27 23.92	Escrow Bid Documents

Combined Contract

Front End, Special Provisions, Bid Item Lists & Division 1 Specifications

UMS	CTS-R	YBM	STS	<u>Division</u> or <u>Section No.</u>	<u>Description</u>
●	●	●	●	01 31 03.92	Partnering
●	●	●	●	01 31 13	Project Coordination
●	●	●	●	01 31 13.10	Project Coordination – Management Staff
●	●	●	●	01 31 13.20	Project Coordination – Field Engineering
●	●	●	●	01 31 19	Project Meetings
●	●	●	●	01 31 25	Web-Based Project Control System
●	●	●	●	01 32 13	Scheduling of Work
●	●	●	●	01 32 33	Photographic Documentation
●	●	●	●	01 33 00	Submittal Procedures
●				01 35 00.53	Hazardous Materials Procedures (UMS)
	●			01 35 00.54	Hazardous Materials Procedures (CTS)
		●		01 35 00.55	Hazardous Materials Procedures (YBM)
			●	01 35 15.56	Operating Systems Interface (STS)
●	●	●	●	01 35 29.10	Health and Safety
●	●	●	●	01 35 36	Construction and Demolition Debris Recovery Plan
●				01 35 40.53	Archaeological Discoveries (UMS)
	●			01 35 40.54	Archaeological Discoveries (CTS)
		●		01 35 40.55	Archaeological Discoveries (YBM)
			●	01 35 40.56	Archaeological Discoveries (STS)
●	●	●	●	01 41 00	Regulatory Requirements
●	●	●	●	01 41 26.10	Excavation Permit
●				01 42 00.53	References (UMS)
	●			01 42 00.54	References (CTS)
		●		01 42 00.55	References (YBM)
			●	01 42 00.56	References (STS)

Combined Contract
Front End, Special Provisions, Bid Item Lists & Division 1
Specifications

UMS	CTS-R	YBM	STS	<u>Division</u> or <u>Section No.</u>	<u>Description</u>
●	●	●	●	01 43 38	Field Samples and Mockups
●	●	●	●	01 45 00	Quality Control
●	●	●	●	01 45 13	Bidders Qualifications
●				01 52 01.53	Construction Facilities – City Facilities
	●			01 52 01.54	Construction Facilities – City Facilities
		●		01 52 01.55	Construction Facilities – City Facilities
			●	01 52 01.56	Construction Facilities – City Facilities
●				01 55 26.53	Traffic Regulations (UMS)
	●			01 55 26.54	Traffic Regulations (CTS)
		●		01 55 26.55	Traffic Regulations (YBM)
			●	01 55 26.56	Traffic Regulations (STS)
●	●	●	●	01 55 27	Temporary Pavement Markings
●	●	●	●	01 56 10	Temporary Site Construction
●	●	●	●	01 57 13	Stormwater and Erosion Controls
●				01 57 19.53	Environmental Mitigation Measures (UMS)
	●			01 57 19.54	Environmental Mitigation Measures (CTS)
		●		01 57 19.55	Environmental Mitigation Measures (YBM)
			●	01 57 19.56	Environmental Mitigation Measures (STS)
●	●	●	●	01 58 01	Identification Systems
●	●	●	●	01 60 00	Product Requirements
●	●	●	●	01 64 13	Owner-Furnished Materials And Equipment
●	●	●	●	01 71 23.16	Construction Surveying
●	●	●	●	01 76 29	Protection of Existing Property

Combined Contract

Front End, Special Provisions, Bid Item Lists & Division 1 Specifications

UMS	CTS-R	YBM	STS	<u>Division</u> or <u>Section No.</u>	<u>Description</u>
●	●	●	●	01 77 00	Closeout Procedures
●	●	●	●	01 78 36	Warranties
●	●	●	●	01 78 39	Project Record Documents
●	●	●	●	01 78 44	Spare Parts and Maintenance Materials
●				01 79 00.53	Training Programs and Operations & Maintenance Manuals (UMS)
	●			01 79 00.54	Training Programs and Operations & Maintenance Manuals (CTS)
		●		01 79 00.55	Training Programs and Operations & Maintenance Manuals (YBM)
			●	01 79 00.56	Training Programs and Operations & Maintenance Manuals (STS)
●	●	●	●	01 80 00	Facility Testing, Start-Up, and Commissioning

TABLE OF CONTENTS

Technical Specifications

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
				Division 02 – EXISTING CONDITIONS	
				02 13 00	Hazardous Material Abatement and Control
			●	02 30 00	Subsurface Investigation
●	●	●	●	02 41 00	Demolition
●				02 41 16.53	Selective Structural Demolition (UMS)
	●			02 41 16.54	Structural Demolition (CTS)
		●		02 41 16.55	Structural Demolition (MOS)
		●		02 65 00	Underground Storage Tanks Removal
●	●	●		02 81 00	Transportation And Disposal of Excavated Materials
				Division 03 – CONCRETE	
●				03 05 15.53	Portland Cement Concrete (UMS)
	●			03 05 15.54	Portland Cement Concrete (CTS)
		●		03 05 15.55	Portland Cement Concrete (MOS)
			●	03 05 15.56	Portland Cement Concrete (STS)
●	●	●	●	03 11 00	Concrete Formwork
●	●	●		03 15 13	Waterstops
●	●	●		03 15 20	Post-Installed Concrete Anchors
●	●	●	●	03 20 00	Concrete Reinforcing
●	●	●	●	03 20 00.05	AWSS Concrete Reinforcing
			●	03 26 00	Adhesive Anchors
●	●	●	●	03 30 00	Cast-In-Place Concrete
●	●	●	●	03 30 00.10	AWSS Cast-In-Place Concrete
●				03 31 26	Self-Compacting Concrete
			●	03 32 00	Precast Concrete
●	●	●		03 33 00	Architectural Concrete
●	●	●	●	03 35 00	Concrete Finishing
●	●	●		03 37 13	Shotcrete
●				03 45 00	Precast Architectural Concrete
	●			03 46 00	Glass Fiber Reinforced Concrete
●	●	●	●	03 53 00	Concrete Topping
●	●	●		03 62 00	Non-Shrink Grout
●	●	●		03 81 00	Concrete Cutting
				Division 04 – MASONRY	

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
●	●	●		04 22 00	Concrete Unit Masonry
Division 05 – METALS					
●				05 12 00.53	Structural Steel (UMS)
	●			05 12 00.54	Structural Steel (CTS)
		●		05 12 00.55	Structural Steel (MOS)
			●	05 12 00.56	Structural Steel (STS)
	●			05 15 19	Stainless-Steel Wire Rope Assemblies
●	●	●		05 30 00	Steel Decking
●	●	●		05 40 00	Cold-Formed Metal Framing
●	●	●	●	05 50 00	Metal Fabrications
●	●	●		05 50 50	Slotted Channel Framing
●	●	●	●	05 52 13	Pipe and Tube Railings
●	●	●		05 53 00	Metal Gratings
●	●	●		05 60 00	Metal Stairs
●	●	●		05 70 00	Decorative Metal
Division 06 – WOODS, PLASTICS, AND COMPOSITES					
●	●	●		06 10 00	Rough Carpentry
			●	06 10 53.13	Wood Trough
	●			06 13 16	Pole Construction
●	●	●		06 16 00	Sheathing
Division 07 – THERMAL AND MOISTURE PROTECTION					
	●			07 13 55	Membrane Waterproofing for SEM Tunnels
●	●	●		07 14 16	Cold Fluid-Applied Waterproofing
	●			07 16 00	Self-Adhering Sheet Waterproofing
●	●	●		07 25 00	Fluid-Applied Weather Barriers
●	●	●		07 27 16	Concrete Floor Sealer for Vapor Emission Control
	●			07 42 13	Perforated Metal Wall Panels (CTS and MOS)
		●		07 42 13.53	Metal Wall Panels (UMS)
●	●	●		07 43 53	Crystalized Glass Wall Panels
	●	●		07 54 23	Thermoplastic Polyolefin (TPO) Roofing
●	●	●	●	07 60 00	Flashing and Sheet Metal
	●	●		07 72 00	Roof Accessories
●	●	●		07 80 00	Fire and Smoke Protection
●	●	●		07 81 00	Spray Applied Fireproofing
●	●	●		07 82 00	Intumescent Fireproofing
●	●	●	●	07 92 00	Joint Protection

UMS	CTS	YBM	STS	Division or Section No.	Description
●	●	●		07 93 00	Preformed Joint Seals
●	●	●		07 95 00	Expansion Control
●				07 95 05	Seismic Expansion Joint Seals
		●		07 95 53	PTFE Slide Bearings
Division 08 – OPENINGS					
●				08 06 71.53	Door Hardware Schedule (UMS)
	●			08 06 71.54	Door Hardware Schedule (CTS)
		●		08 06 71.55	Door Hardware Schedule (MOS)
●	●	●		08 11 00	Metal Doors And Frames
			●	08 12 00	Blast Resistant Metal Doors and Frames (MISSING INFO, pg. 3)
●	●	●		08 18 00	Pressurized Metal Doors
●	●	●	●	08 31 00	Access Doors And Panels
●	●			08 33 23	Overhead Coiling Doors
●				08 33 28	Overhead Bi-Fold Doors
●	●	●		08 34 26	Overhead Coiling Grilles (CTS and MOS)
		●		08 34 83	Elevator Door Smoke Containment System
●	●	●		08 41 00	Stainless Steel Storefronts
●	●	●	●	08 44 13	Point-Supported Glazing with Steel Back-Up System
	●			08 44 26	Structural Glass Assemblies
●				08 51 00	Aluminum Storefronts
●				08 62 00	Glass Walk Roof System
				08 71 00	Door Hardware
●	●	●	●	08 80 00	Glazing
●	●	●		08 83 00	Mirrors
●	●	●		08 85 00	Luminous Ceilings
●				08 88 10	Fire-Rated Glass Floors
●				08 88 20	Fire-Rated Glass Wall Assemblies
●	●	●		08 90 00	Louvers and Vents
			●	08 99 00	Glass Windscreens
Division 09 – FINISHES					
	●			09 20 20	Cement Plastering
	●			09 22 14	Furring and Lathing
●	●			09 24 00	Veneer Plastering
●	●	●	●	09 30 00	Tiling
●		●		09 51 00	Acoustic Panel Ceilings
●	●	●		09 53 23	Metal Ceiling Systems
●	●	●	●	09 62 50	Tactile Warning Surface
●	●	●		09 63 18	Anti-Static Flooring

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
●	●	●		09 64 13	Resilient Base and Accessories
●	●	●		09 65 16	Resilient Flooring
●	●	●		09 66 23	Resinous Matrix Terrazzo Flooring
●	●			09 67 00	Precast Terrazzo Stairs
●	●	●		09 69 00	Fluid-Applied Flooring
●				09 75 00	Stone Facing
●	●	●		09 83 14	Acoustical Vermiculite Cement Plaster
			●	09 86 00	Anti-Graffiti Coating
●	●	●	●	09 90 00	Painting and Coating
		●	●	09 91 00	Painting
●	●	●		09 96 00	High-Performance Coatings
Division 10 – SPECIALTIES					
●	●	●	●	10 14 00	Signage
●	●	●		10 14 43	Photoluminescent Exit Path Marking System
●	●	●		10 28 00	Toilet And Janitor's Closet Accessories
			●	10 41 00	Display Cases
●	●	●		10 44 00	Fire Protection Specialties
●	●	●		10 51 13	Metal Lockers
		?		10 81 00	Pest Control Devices
Division 11 – EQUIPMENT					
		●		11 24 10	Building Maintenance Equipment
●	●	●		11 26 00	Unit Kitchens
Division 12 – FURNISHINGS					
●				12 10 10.53	Art Coordination and Installation (UMS)
	●			12 10 10.54	Art Coordination and Installation (CTS)
		●		12 10 10.55	Art Coordination and Installation (MOS)
			●	12 10 10.56	Art Coordination and Installation (STS)
			●	12 30 00	Seating/Litter Receptacles
●	●	●		12 36 00	Countertops
●				12 48 19	Entrance Floor Gratings
●	●	●		12 93 00	Site Furnishings
Division 13 – SPECIAL CONSTRUCTION - NOT USED					
Division 14 – CONVEYING EQUIPMENT					

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
●	●	●		14 20 00	Elevators General
●	●	●		14 21 00	Electric Traction Elevators
●	●			14 24 00	Hydraulic Elevators
●	●	●		14 31 00	Escalators
Division 15 THRU 19 – NOT USED					
Division 20– FACILITIES SERVICES					
●	●	●	●	20 10 13	Common Materials & Methods For Plumbing and Fire Suppression Systems
●	●	●	●	20 20 13	Pipe Sleeves, Supports, and Anchors for Plumbing and Fire Suppression Systems
●	●	●	●	20 40 13	Identification for Plumbing and Fire Suppression Systems
			●	20 71 00	Systems Assurance (Not on previous TOC, Dave C. working on)
Division 21 – FIRE SUPPRESSION					
●	●	●	●	21 12 00	Fire-Suppression Standpipes
●	●	●		21 13 13	Wet-Pipe Sprinkler Systems
●	●	●		21 13 18	Preaction Sprinkler Systems
●	●	●		21 22 00	Clean-Agent Fire-Extinguishing Systems
Division 22 – PLUMBING					
●	●	●		22 11 00	Facility Water Distribution
●	●	●		22 13 00	Facility Sanitary Sewerage
●	●	●	●	22 14 00	Facility Storm Drainage
●	●	●	●	22 14 29	Sump Pumps
			●	22 15 00	Plumbing
●	●	●	●	22 16 01	Air Replenishment System (Lang looking for way to combine 1256)
●	●	●		22 40 00	Plumbing Fixtures
Division 23 – HVAC					
●	●	●		23 01 00	Mechanical General Requirements
●	●	●		23 05 00	Common Work Results for HVAC
●	●	●		23 05 13	Common Motor Requirements for HVAC Equipment
●	●	●		23 05 29	Hangers and Supports for HVAC Piping And Equipment
●	●	●		23 05 48	Noise, Vibration, and Seismic Control
●	●	●		23 05 93	Testing, Adjusting and Balancing For HVAC

UMS	CTS	YBM	STS	Division or Section No.	Description
●	●	●		23 07 00	HVAC Insulation
●	●	●		23 08 00	Commissioning of HVAC
●	●	●		23 09 13	Instrumentation and Control for HVAC
●	●	●		23 09 93	Sequence of Operations for HVAC Controls
●	●	●		23 23 00	Refrigerant Piping
●	●	●		23 31 00	HVAC Ducts and Casings
●	●	●		23 34 00	HVAC Fans
			●	23 34 00	Jet Fans
	●	●		23 36 00	Air Terminal Units
●	●	●		23 73 23	Custom Indoor Central-Station Air-Handling Units
●	●	●		23 74 50	Variable Refrigerant Flow Systems
	●	●		23 81 00	Decentralized Unitary HVAC Equipment
●	●	●		23 88 10	Dampers for Emergency Ventilation
●	●	●		23 88 20	Sound Attenuators for Emergency Ventilation
●	●	●		23 88 30	Fan-Motor Units for Emergency Ventilation
●	●	●		23 88 40	Ductwork and Accessories for Emergency Ventilation
				Division 24 – NOT USED	
				Division 25 – INTEGRATED AUTOMATION	
●	●	●		25 14 00	Integrated Automation Local Control Units
				Division 26 – ELECTRICAL	
●	●	●	●	26 00 00	Basic Electrical Requirements (Merging w/ 26 05 10 Basic Electrical Requirements for Outdoor Work) SPong to merge (his decision) 1256 – 26 05 00 and station 26 05 10
●	●	●		26 05 00	Common Work Results For Electrical (Merging see above)
			●	26 05 10	Electrical General Requirements (Will not be used per Doug Y.)
●	●	●		26 05 10	Basic Electrical Materials And Methods – S Pong to decide whether to merge with 26 00 00 Base or stand alone.
●	●	●		26 05 13	Medium-Voltage Cables – Station will be Base – no combining necessary.
●	●	●	●	26 05 19	Low-Voltage Electrical Power Conductors and Cables – Station will be Base. YEI to merge 1254 into Station Review 1254
●	●	●		26 05 20	Wire and Grounding – SPong (suggest deleting Station version and use 1256 has base for combining specification). Station spec is identical to 1256.
			●	26 05 20	Wiring for Street Lighting and Traffic Signals – Suggest using this version as base for combining specification into one.
●	●	●	●	26 05 26	Grounding and Bonding for Electrical Systems. Station will be

UMS	CTS	YBM	STS	Division or Section No.	Description
					Base. YEI will merge 1256 into station's base version
●	●	●	●	26 05 29	Hangers and Supports for Electrical Systems Station will be Base. YEI will merge 1256 into station base version.
			●	26 05 33	Raceway and Boxes for Electrical Systems Station will be Base. YEI will merge 1256 into station base version. S Pong will need to review.
●	●	●		26 05 33	Raceways for Facility Services – see above.
●	●	●		26 05 34	Raceway (Traction Power) – SPong
●	●	●		26 05 35	Junction and Pull Boxes – SPong will determine the disposition of this spec.
●	●	●	●	26 05 36	Cable Trays for Electrical Systems –Station will be Base. YEI will merge 1256 into station base version
			●	26 05 43	Underground Ductbanks, Raceways and Pullboxes - Station will be BASE. Check with SPong is he needs to edit for combined spec.
●	●	●		26 05 43	Raceways and Pull Boxes for Outdoor Electrical Work. S.Pong will determine the disposition of this section for combined spec.
●	●	●	●	26 05 48	Seismic Controls for Electrical Work - Station will be Base. YEI will merge 1256 into station base version.
●	●	●	●	26 05 53	Identification for Electrical Systems – Station will be Base -YEI will merge 1256 edits into station base version.
●	●	●		26 05 73	Overcurrent Protective Device Coordination Study – Station will be Base, no combining necessary.
●	●	●	●	26 08 00	Electrical Testing and Commissioning – 1256 will be BASE version. YEI will merge station into 1256 BASE version. Jon Fisher has this combined spec.
●	●	●		26 08 15	Factory and Field Testing – Station will be Base – YEI will edit to include 1256 electrical itm - UPS.
●	●	●		26 09 23	Lighting Control Devices – Station will be Base. SPong to determine if editing is necessary for 1256 design work.
●	●	●		26 09 43	Network Lighting Controls – Station will be Base. no combining necessary.
●	●	●		26 11 13	Primary Unit Substations – Station will be Base. no combining necessary.
●	●	●		26 11 16	Secondary Unit Substations – Station will be Base. no combining necessary.
●	●	●		26 12 00	Medium-Voltage Transformers – Station will be Base. no combining necessary.
●	●	●		26 13 00	Medium-Voltage Switchgear – Station will be Base. no combining necessary.
●	●	●		26 14 00	48VDC Power Supply for Medium/Low Voltage Circuit Breaker Control - – Station will be Base. no combining necessary.

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
●	●	●		26 22 00	Low-Voltage Transformers – Station will be Base. no combining necessary.
●	●	●		26 23 00	Low-Voltage Switchgear – Station will be Base. no combining necessary.
●	●	●		26 24 13	Switchboards – Station will be Base. no combining necessary.
				26 24 13	Motor-Control Center - <u>1256 will be Base</u> – Note: no MCC in stations. <u>Jon Fisher will keep this file.</u>
					Panelboards – Station will be Base. SPong will merge 1256 (mini power center, etc.) into station base version. SPong will decide if retitled similar to 1256 title description
●	●	●	●	26 24 16	Panelboards and Miscellaneous Equipment – Use Station has base spec.
			●	26 24 19	Motor-Control Center
●	●	●		26 24 25	Medium Voltage (4.16kV) Motor Controllers – Base. No 1254 merging.
●	●	●	●	26 27 26	Wiring Devices Station will be Base – YEI will merge 1256 into Station base version
●	●	●	●	26 28 13	Fuses – Station will be Base – YEI will merge 1254 to station base.
●	●	●	●	26 28 16	Enclosed Switches and Circuit Breakers – Station will be Base - YEI will merge 1256 into Station base.
●	●	●		26 29 13	Enclosed Controllers – Station will be Base – no combining
●	●	●	●	26 33 53	Static Uninterruptible Power Supply – <u>1256 will be Base. YEI will merge Station version into 1256. Jon Fisher will have file.</u>
●	●	●		26 50 00	Lighting – Base – Station will be Base. S.Pong will determine if edit for 1256.
●	●	●	●	26 56 19	Roadway Lighting – Base – SPong to edit or merge
Division 27 – COMMUNICATIONS					
			●	27 05 00	Common Work Results for Communications - MK
●	●	●	●	27 11 16	Communications Systems Cabinets, Racks, Frames and Enclosures – <u>BASE version will be 1256. No combining necessary. Jon Fisher has the file</u>
			●	27 15 00	Communications Copper and Optical Fiber Horizontal Cabling - MK
			●	27 21 05	Facilities Supervisory Control and Data Acquisition (SCADA) System - MK
●	●	●		27 30 05	Telephone System - SPong
			●	27 32 10	700 MHZ and 800 MHZ Radio Systems - MB
			●	27 42 16	Platform Display System - MK
●	●	●		27 51 16	Public Address System - Station will be Base – no combining

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
					necessary.
				Division 28 – ELECTRONIC SAFETY AND SECURITY	
●	●	●		28 05 13	Conductors and Cables for Electronic Safety and Security Base – need to clarify with 27 15 00. (This one for station PA, AC FA only?????)
●	●	●		28 13 00	Access Control Systems - Station will be Base – no combining necessary.
●	●	●		28 13 10	Security System (Traction Power) - SPong
●	●	●		28 16 00	Intrusion Systems Base – Station will be base. no combining necessary.
●	●	●	●	28 20 05	CCTV System – SPong to edit.
●	●	●		28 31 11	Digital, Addressable Fire Alarm System - Station will be Base – no combining necessary.
				Division 29 THRU 30 – NOT USED	
				Division 31 – EARTHWORK	
●	●	●		31 09 13	Geotechnical Instrumentation and Monitoring
	●			31 09 13	SEM Tunnel Instrumentation and Monitoring
●	●	●		31 09 15	Structural Instrumentation and Monitoring
		●		31 09 16	Osterberg Cell Slurry Wall Load Testing
●	●	●		31 20 00	Earth Moving
●	●	●		31 23 19	Dewatering
	●			31 23 19.38	Horizontal Drains
			●	31 23 19.56	Groundwater Dewatering (STS)
	●			31 23 21	Vacuum Wellpoint Dewatering
		●		31 23 23	Geofoam
●	●	●		31 23 25	Controlled Density Fill
●				31 23 25.10	Lightweight Concrete Fill
●	●	●	●	31 23 33	Trenching and Backfilling
●				31 32 13.29	Jet Grout Soil Stabilization
●	●	●		31 41 16	Sheet Piling
●	●	●		31 43 14	Compensation Grouting
●	●	●		31 50 00	Excavation Support and Protection
●				31 51 00	Anchor Tiebacks
●				31 62 13	Cased Secant and Tangent Pile Walls
●				31 63 33	Drilled Micropiles
	●	●		31 66 16.46	Slurry Diaphragm Foundation Walls
	●			31 71 21	Tunneling By Sequential Excavation Method

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
	●			31 74 13	Cast-In-Place Concrete Tunnel Lining
	●			31 74 19.05	Shotcrete For Support of Tunnels and Caverns
	●			31 74 19.10	Initial Shotcrete Tunnel Lining
	●			31 74 19.20	Final Shotcrete Tunnel Lining
Division 32 – EXTERIOR IMPROVEMENTS					
●	●	●	●	32 01 18	Street Work Damaged by Contractor
●	●	●	●	32 01 26.70	Asphalt Concrete Planing
●	●	●		32 11 23	Aggregate Base Course
●	●	●	●	32 12 16	Asphalt Concrete Paving
●	●	●	●	32 13 13	Concrete Paving
	●	●	●	32 13 13.11	Concrete Pavement Finishes (CTS, MOS & STS)
	●	●		32 14 00	Unit Pavers
●				32 14 16	Brick Unit Paving
●				32 14 18	Granite Masonry
●	●	●	●	32 17 26	Tactile Warning Surfacing
		●		32 31 13	Chain Link Fences and Gates
●				32 84 00	Planting Irrigation
●	●	●		32 90 00	Planting
●				32 90 05	Tree Protection, Pruning, Root Pruning, and Removal
Division 33 – UTILITIES					
	●			33 01 30	Cured-In-Place Liner
●	●	●	●	33 05 13.10	Adjustment Of City-Owned Frames and Castings
●	●	●	●	33 05 13.20	Adjustment Of Non-Government-Owned Frames and Castings
●	●	●	●	33 11 00	Water Utility Distribution Piping
●	●	●	●	33 11 20	Auxiliary Water Supply System (AWSS)
			●	33 11 21	AWSS Brick Cistern Ring
		●	●	33 11 25.55	AWSS High Pressure Ductile Iron Ball Joints
	●	?		33 12 11	AWSS Settlement Reference and Monitoring Points
●	●	●		33 12 16.20	AWSS High Pressure Ductile Iron Gate Valves
●	●	●		33 31 00	Sanitary Utility Sewerage Piping (NOTE: 33 40 00 Storm Drainage Utilities combined into this Section per Dan King)
			●	33 31 05	Ductile Iron Pipe and Fittings (Forcemain)
		●	●	33 34 01	General Mechanical Requirements
		●	●	33 34 05	Fabrication of Steel Pipe
		●	●	33 34 20	Pipe Appurtenances
		●	●	33 34 40	Valves
		●	●	33 34 60	Welding of Steel Pipe
●			●	33 41 00.10	Reinforced Concrete Pipe




UMS	CTS	YBM	STS	Division or Section No.	Description
			●	33 41 10	Ductbank Infrastructure (Same Sect # as Stations but different name?)
●	●	●		33 41 10	Joint Trench Infrastructure
●	●			33 51 00	Natural Gas Distribution
			●	33 71 20	Concrete MUNI Manhole (Recently Added)
			●	33 71 73	Electrical Service Pedestal (Supersedes Electrical Utility Services)
Division 34 – TRANSPORTATION					
			●	34 01 24	Operations Control Center
			●	34 11 01	Construction on Existing Tracks (MISSING INFO)
			●	34 11 10	Basic Trackwork Materials and Methods
			●	34 11 11	Direct Fixation (DF) Track (MISSING INFO)
			●	34 11 14	Rail
			●	34 11 16	Flash Butt Rail Welding
			●	34 11 17	Thermite Rail Welding
			●	34 11 20	Embedded Trackwork Electrical Isolation
			●	34 11 23	Special Trackwork
			●	34 11 29	Trackway Concrete and Paving
			●	34 11 36	Rail Fasteners
			●	34 11 93	Track Appurtenances and Accessories
			●	34 11 99	Walkway Painting
			●	34 21 19.19	Sectionalizing Breaker
	●	●		34 21 16.16	Traction Power Substation Equipment
●	●	●	●	34 21 16.18	Traction Power SCADA
●	●	●	●	34 21 16.19	Traction Power Testing and Training
●				34 21 20	Gap Breaker Station Equipment
	●	●	●	34 22 00	Traction Power Cables (CTS and MOS & STS)
●				34 22 00.53	Traction Power Cables (UMS)
			●	34 23 00	Traction Power Testing and Training (Sim. to Station Specs?)
			●	34 23 10	Traction Power SCADA (Sim. to Station Specs?)
●	●	●	●	34 23 13	Traction Power Poles
●	●	●	●	34 23 16	Overhead Cable Suspension
		●	●	34 23 16.13	Overhead Special Work
●	●	●	●	34 23 16.16	Overhead Testing and Acceptance
●				34 23 21	Overhead Traction Power Eyebolts
●	●	●	●	34 41 13	Traffic Signals (UMS and CTS & STS)
		●		34 41 13.55	Traffic Signals
			●	34 42 13	Surface Signaling System General Requirements
			●	34 42 15	Surface Signaling System Wayside Equipment
			●	34 42 19	Vital Interlocking Logic Controllers
			●	34 42 23	ATCS General Requirements

UMS	CTS	YBM	STS	<u>Division or Section No.</u>	<u>Description</u>
			●	34 42 27	ATCS Safety
			●	34 42 31	ATCS Systems Assurance
			●	34 42 35	ATCS Room Equipment
			●	34 42 37	ATCS Wayside Equipment
			●	34 42 39	ATCS Central Equipment
			●	34 42 39	ATCS Testing
Division 35 THRU 48 – NOT USED					

End of List

LEGEND

- Blue Text = suffix change for station-specific or STS-specific section
- Red Text = specification change to combine specs (Consultant)
- Green Text = specification change to combine specs (DPW)
- Purple Text = specification change to combine specs (SFMTA)

-  = Specification Section to be “conformed”
-  = Consider combining specifications sections
-  = Specifications sections added by DPW