

1. All elevations shown upon this plan are based upon Santa Clara Valley Water District (Valley Water) Benchmark BM52 located at the north corner of E. Dunne Avenue bridge over Highway 101 (Bridge No. 37-0334 PM16.01 1972). Brass disk is located 5.50 feet northwest from the end of concrete headwall; 12.8 feet westerly from telephone manhole and 5.70 feet northwest from electrolator #4343. Elevation 382.20 (NAVD88).
2. All existing elevations shall be field verified by contractor unless otherwise noted.
3. All survey monuments shall be installed at locations shown on the corresponding final map before acceptance of the subdivision.
4. Contractor shall not destroy existing permanent survey monuments.
5. All work shall conform to the latest edition of the City of Morgan Hill Standard Details for Construction which are hereby made a part of these plans. Deviations from the Standard Details must be approved by the City Engineer.
6. Developer shall arrange for a pre-construction meeting with the City Engineer (Municipal Code 17.32.250b) prior to commencing any construction. An encroachment permit shall be obtained from the Public Works Department upon completion of said meeting and prior to construction of any improvements within an existing or offered to be dedicated right-of-way, public utility easement or public service area.
7. A grading permit shall be obtained from the city of Morgan Hill Building Division prior to any grading of building pads. Applicant for the grading permit shall provide a plan review letter from the Soils Engineer. A grading permit does not give contractor permission to commence off-site (street) grading. Only upon City approval of the improvement plans and completion of a pre-construction meeting, shall contractor commence off-site grading.
8. Contractor shall notify the Public Works Department 48 hours prior to commencement of any work phase. At that time, an "Inspection Request Form" shall be completed to ensure proper scheduling of an inspection with the City Engineer's Representative.
9. Contractor shall provide access surrounding property by confining operations to within the "Limits of Work". Contractor shall be responsible for maintaining access for all adjoining residents, places of business, and properties at all times and in a safe manner. Contractor shall make proper notification at least 24 hours in advance of any interruption in access or service to the above property owners as well as to the City Engineer's Representative.
10. Contractor shall only use equipment provided with a spark arrestor device to reduce a potential fire hazard.

Approval of this plan does not release Subdivider of the responsibility for correction of mistakes, errors, or omission, contained therein. If during the course of construction, public interest requires a modification of or a departure from these improvement plans or the City Standard Details for Construction, the City Engineer shall have the authority to require such modifications and departures and to specify the manner in which the same is to be made.

Contractor shall provide a water truck onsite at all times. Contractor will be allowed to draw water from the City of Morgan Hill Water Distribution System only after obtaining a hydrant meter from the Public Works Department and an inspection of the water truck for a proper backflow device or "air-gap" filling pipe. Developer has paid for "off-site" construction water which shall not be used for building construction. Contractor shall keep down dust from construction activity to the maximum extent possible. Contractor shall clean all existing streets, curbs, gutters, and sidewalks affected by the project at the end of each working day.

No material shall be stored near the edge of pavement, traveled way, sidewalk, driveway, or shoulder line which may create a hazard for vehicular and pedestrian traffic.

Contractor shall submit a traffic control plan for approval to the Public Works Department a minimum of 5 days prior to any work within an existing public plan. The plan shall be signed by a licensed Traffic Engineer when it involves an alternate street. Contractor shall provide all necessary traffic control in accordance with the latest edition of CALTRANS "Manual of Warning Signs, Lights, and Devices for Use in Performance of Work Upon Highways", while working within the public right-of-way. Two traffic lanes (10' min), shall be open to vehicular traffic during all hours, weekends, and holidays. One lane, one way, may be permitted under the control of not less than two (two) competent flagmen during construction operations. Street closures and detours shall only take place upon City Engineer approval and Police Department coordination through the Project Engineer.

Contractor shall exercise diligence in reviewing the approved SLOs Report and other available resources to familiarize himself/herself with the soil conditions to be encountered in the course of work identified in these plans. Contractor shall not cause damage to adjacent trees or existing structures above or below grade during trench excavation. All rocks, boulders, and large stones encountered shall be removed to provide a clearance around the trench and the pipe. The trench bottom shall be refilled to grade with sand, pea gravel, or other approved granular material. Clean 1/4" or 1/2" pea gravel shall be used in areas of moist condition or where the soil has a history of sub-surface water. If the bottom of the trench to be placed is moist or where the material is incapable of properly supporting the pipe, the material shall be removed to a minimum depth of 12 inches below the unstable layer for the full width of the trench and replaced with approved granular material. Trench excavation material deposited adjacent to the trench shall be placed and located to prevent spillage into the open trench.

It shall be Contractor's responsibility to provide all necessary trench safety measures for excavations. All trench safety measures shall be in accordance with the latest CAL-OSHA guidelines. Contractor shall provide evidence of a CAL-OSHA trenching permit at the pre-construction meeting.

18. Joining Existing Pavement:
Existing pavement which is to be joined by new pavement shall be saw cut vertical to provide straight, true and neat joints. Overlapping of existing pavement without saw cutting or grinding shall not be permitted. The vertical edges shall be tacked prior to Terminals of all surfacing indicated on the plans shall join any existing surface in a smooth butt joint. Conform paving by method of abrasive grinding will be allowed upon approval of the City Engineer.

All manholes, sewer mains, and laterals must pass a leakage test as described in the City of Morgan Hill Standard Details for Construction. After all backfill, testing, and pavement restoration has been completed, the contractor shall flush and clean all sewer lines 24 inches or less in diameter by the "Wayne Ball Method". After the leakage test, but prior to paving, a television inspection shall be performed at all locations of newly installed sewer mains at contractor's expense. The underground contractor must keep an accurate record of manholes and the distance between them and each way branch lateral, and their direction.

20. Before any upstream sewers are constructed, the contractor shall verify the elevation and location of existing sewer lines to be connected.

21. The end of each new lateral shall be marked as shown in Detail S-2. The concrete contractor shall stamp an "S" on the face of curb directly above the lateral.

Contractor shall not turn off or on any valves belonging to the City's water system. Only Department of Public Works personnel shall open the necessary valves to connect new lines. Failure to follow this requirement shall be considered an "unlawful connection" and may result in issuing of a citation and fines as specified in Section 13.04 of the Morgan Hill Municipal Code.

23. Connections requiring shut down of the system shall be done between the hours of 10:00 PM and 6:00 AM, and only upon coordination with the Engineering & Utilities Department.

24. All water lines shall be tested after completion of the trench backfill and compaction of the final base material, but prior to placement of the final roadway surface.

25. Contractor shall place marker posts adjacent to all air relief valves and blow off assemblies along water mains located in unimproved areas or fields. The posts shall be pressure treated redwood 4"x4"x6", painted white, buried 2'-6", and inscribed with "W/A.V." (for air relief valves) or "B.O." (for blow off assemblies), in 3 inch high carved letters painted blue.

26. The concrete contractor shall stamp a letter "W" on the face of curb directly above the water service.

Backfill material shall be hand placed and compacted up to at least 6" above the pipe. When using native soil as trench backfill, the minimum sand cover shall be 12".

28. Jetting and/or flooding of trench backfill material will be permitted only if approved by the Soils Engineer and City Engineer.

29. Any excess excavation material may be deposited onsite in areas and at depths designated by the Owner, and with approval of the City Engineer.

30. The minimum relative compaction for trench backfill, subgrade and base material shall be 95% throughout the project unless recommended otherwise in the soils Report and approved by the City Engineer.

31. If trench backfill material is 100% sand, the City shall conduct compaction tests of the lifts specified. If the trench backfill material is native soil, contractor shall provide compaction test results of the lifts specified in the Soils

32. Any aggregate base that becomes contaminated during construction shall be removed and replaced with uncontaminated base.

An erosion and sediment control plan shall be required prior to any physical development of a property. Erosion control shall be planned between October 15th and May 1st, and sediment control shall be planned year round for the life of the project. Said plans shall meet the minimum standards and specifications of the California Stormwater Quality Association (CASQA) for Stormwater Best Management Practices (BMPs). Contractor shall be responsible for initiating the required control measures. CASQA BMP information can be viewed and downloaded at <http://calbrmphpandbooks.com/Construction/asp>.

35. Electroliers:

All electroliers shall be installed by the Developer (rate schedule LS-2C, 120V, high pressure sodium, at the locations shown on these plans). See Electrical Section of the Standard Details.

Observed surface evidence of utility lines including facilities, appurtenances, and markings were used in depicting the locations of the underground features shown on these plans. Underground features depicted are approximate and it is the responsibility of the contractor to determine the actual location and depth of underground utilities prior to starting excavation.

Contractor agrees that they shall assume sole and complete responsibility for job site conditions during the course of construction of this project, including safety of all persons and property; that this requirement shall apply continuously and not be limited to normal working outs; and that the contractor shall defend, indemnify, and hold the City of Morgan Hill harmless from and any all liability, real or alleged, in connection with the performance of work on this project, excepting for liability arising from sole negligence of the City of Morgan Hill.

AB	Aggregate Base	EG	Existing Ground	PSE	Public Service Easement
ABS	Acrylonitrile Butadiene Styrene	Elect.	Electrolier	PUE	Public Utility Easement
ACA	Asphalt Concrete	EP	Edge of Pavement	PVC	Polyvinyl Chloride
AD	Americans with Disabilities Act	EQ.	Equivalent	PVI	Point of Vertical Intersection
Approx.	Approximate	ER	End of Return	(R), Rad.	Radial
ASBC	Asbestos Cement	EV	End of Vertical Curve	RCP	Reinforced Concrete Pipe
BC	Beginning of Curve	FF	Finish Floor	RPP	Reinforced Plastic Pipe
BFE	Base Flood Elevation	FG	Finish Grade	RSC	Rapid Strength Concrete
BM	Benchmark	FH	Fire Hydrant	R/W, R/W	Right-of-Way
BMP	Best Management Practice	FL	Flowline	S/L	Street Light
BoW	Bottom of Wall	FT.	Foot	SCM	Source Control Measure
BSM	Bioswale Media	GB	Grade Break	SD	Storm Drain
BVC	Beginning of Vertical Curve	GT	Grass Trap	SDCO	Storm Drain Cleanout
BW	Back of Walk	HDPE	High Density Polyethylene	SDMH	Storm Drain Manhole
CASQA	California Stormwater Quality Association	Hor., Horiz.	Horizontal	SS	Sanitary Sewer
CBC	California Building Code	HP	High Point	SSCO	Sanitary Sewer Cleanout
CCTV	Closed Circuit Televised Video	ID	Inside Diameter	SSMH	Sanitary Sewer Manhole
CI	Curb Inlet	INV	Invert	STA	Station
CIP	Cast Iron Pipe	JP	Joint Pole	Std.	Standard
CIPP	Cured In-Place Pipe	JT	Joint Trench	SW	Sidewalk
CL, C/L	Centerline	LB	Pound	SWP	Stormwater Control Plan
CL	Class	LF	Linear Feet	TBM	Temporary Benchmark
CLR	Clear	LP	Low Point	TC	Top of Curb
CMP	Corrugated Metal Pipe	Max	Maximum	TCP	Traffic Control Plan
CO, C/O	Clean Out	Min	Minimum	ToB	Top of Bank
Conc.	Concrete	MOFG	Maximum Outside Finish Grade	ToW	Top of Wall
D/S	Downstream	(N)	New	Typ.	Typical
DDCV	Double Detector Check Valve Assembly	NG	Natural Ground	U/V	Upstream
Det., DTL	Detail	#, No.	Number	VCP	Vitrified Clay Pipe
DI	Drop Inlet	NPDES	National Pollutant Discharge Elimination System	Vert.	Vertical
Dia.	Diameter	NTS	Not to Scale	W	Water
DIP	Ductile Iron Pipe	OC	On Center	W/	With
DWG	Drawing	OD	Outer Diameter	WDID	Waste Discharge Identification Number
DWY, D/W	Driveway	PB	Pull Box	WM, W/M	Water Meter
(e), ex., exist	existing	PCC	Portland Cement Concrete	WV	Water Valve
EA	Each	PL, P/L	Property Line		
EC	End of Curve	PSDE	Private Storm Drain Easement		

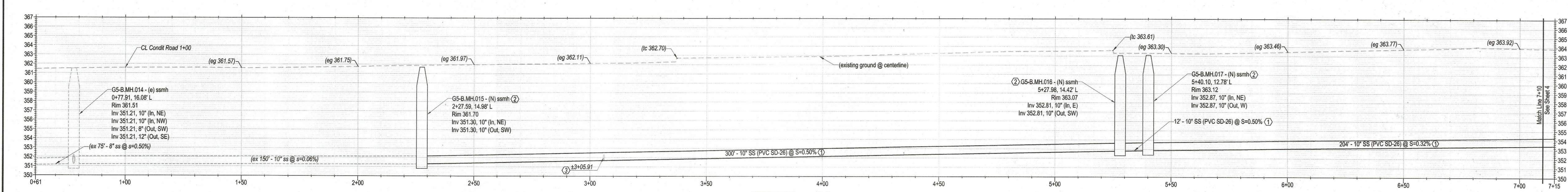
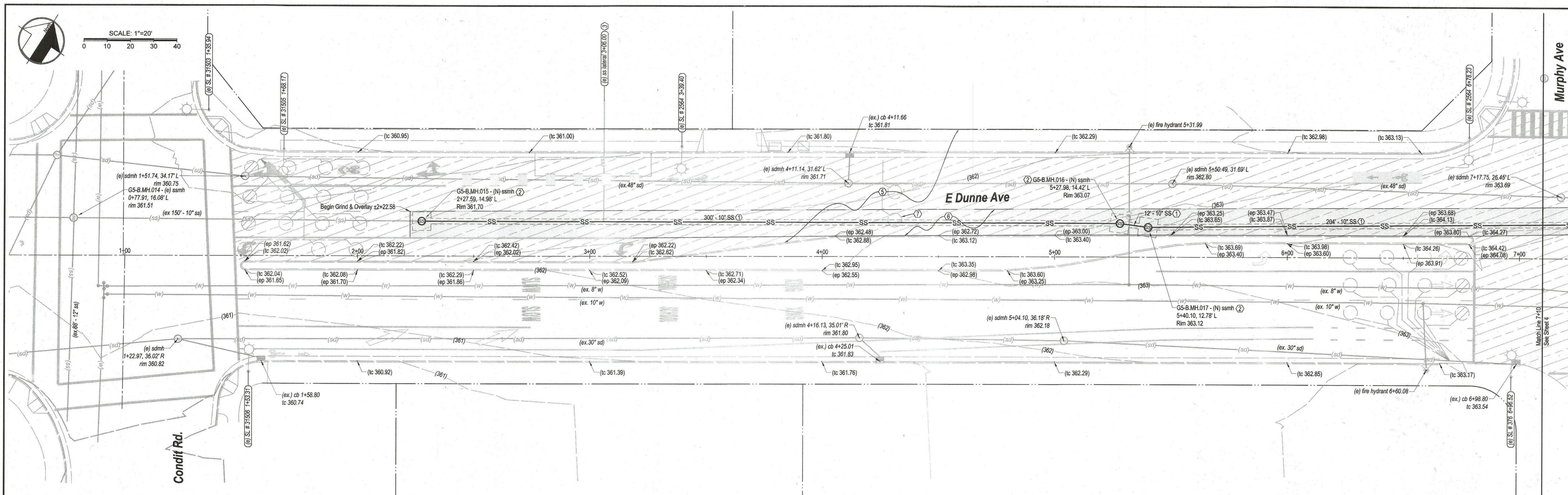
Proposed	Description	Existing
	Project Property Boundary	
	Centerline	
	Easement, as noted	
	Curb and Gutter	
	Driveway Approach	
	Storm Drain	
	Sanitary Sewer	
	Water Main	
	Overhead Electric	
	Major Contour	
	Minor Contour	
	Benchmark	
	Monument, Type as shown	
	Revision	
	Section	
	Swale	
	Slope	
	Storm Drain Manhole	
	Curb Inlet	
	Drop Inlet	
	Sanitary Sewer Manhole	
	Fire Hydrant	
	Cleanout	
	Gate Valve	
	Utility Pole	
	Electroliner	
	Sewer Service	
	Water Service	
	Type 2 Slurry Seal	
	2\"/>	

** existing features are labeled in *italics* and parentheses, typical

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This map shows the project location in the San Pedro area. The project is located on a street running east-west, between Cordillera Rd and Barrett Ave. The map includes a north arrow in the top left corner. Key streets shown include E Main Ave, E Durme Ave, San Pedro Ave, Barrett Ave, and Tennant Ave. Highway shields for 101 and 10 are visible. The project location is highlighted with a thick black line.

#	Title
1	Cover Sheet & Notes
2	Cover Sheet & Notes
3	Plan Profile - East Dunne Road 0+50 - 7+00
4	Plan Profile- East Dunne Road 7+00 - 13+50
5	Plan Profile - East Dunne Ave 13+50 - 20+00
6	Striping Plan 0+50 - 7+00
7	Striping Plan 7+00 - 13+50
8	Striping Plan 13+50 - 20+00
9	Details
10	Details



Construction Notes

- Remove existing sanitary sewer main and replace with proposed 10" PVC SDR-26 sanitary sewer main. Trench restoration shall be per Trench Restoration Detail on Sheet ##.
- Existing sanitary sewer manhole to be removed and replaced.
- Existing sanitary sewer lateral to be reconnected to proposed sanitary sewer line per City Standard Details S-2 and S-3 on Sheet ##. Sanitary sewer lateral to be extended/shortened as necessary.
- Install new 10" PVC (SDR-26) sanitary sewer main with trench restoration per Trench Restoration Detail on Sheet ##.
- Slurry seal existing roadway surface using Type 2 slurry seal.
- 2" Asphalt Pavement Grind & 2" Fill
- Replace (e) traffic detection loop

General Notes:

- Existing utility information shown on the plans is approximate. It shall be the Contractor's responsibility to contact Underground Service Alert (USA) 48-hours prior to any excavation to locate all underground utilities and obtain a dig alert identification number prior to the commencement of work.
- Contractor to verify utility location and depth prior to commencement of work.
- A concrete saddle is to be installed if less than 12" of clearance exists between the existing utility and the proposed sanitary sewer to be installed. See Detail 1 on Sheet ##.
- It shall be the Contractor's responsibility to remove and dispose of the existing materials, including, but not limited to, sewer pipe and sewer manholes from the site per the plans and specifications.

Pavement Treatment Legend

	Type 2 Slurry Seal
	2" AC Pavement Mill & Fill

NO.	DESCRIPTION	DATE	BY

REVISIONS

DRAWN: AEV	DESIGN: KW	HOR: 1" = 20'
CHECKED: KW	DATE: 3/5/25	VERT: 1" = 5'
APPROVED:	DATE: 3/12/25	JOB NO: WW3009
CITY ENGINEER EXP. DATE 06-30-2025		

City of Morgan Hill

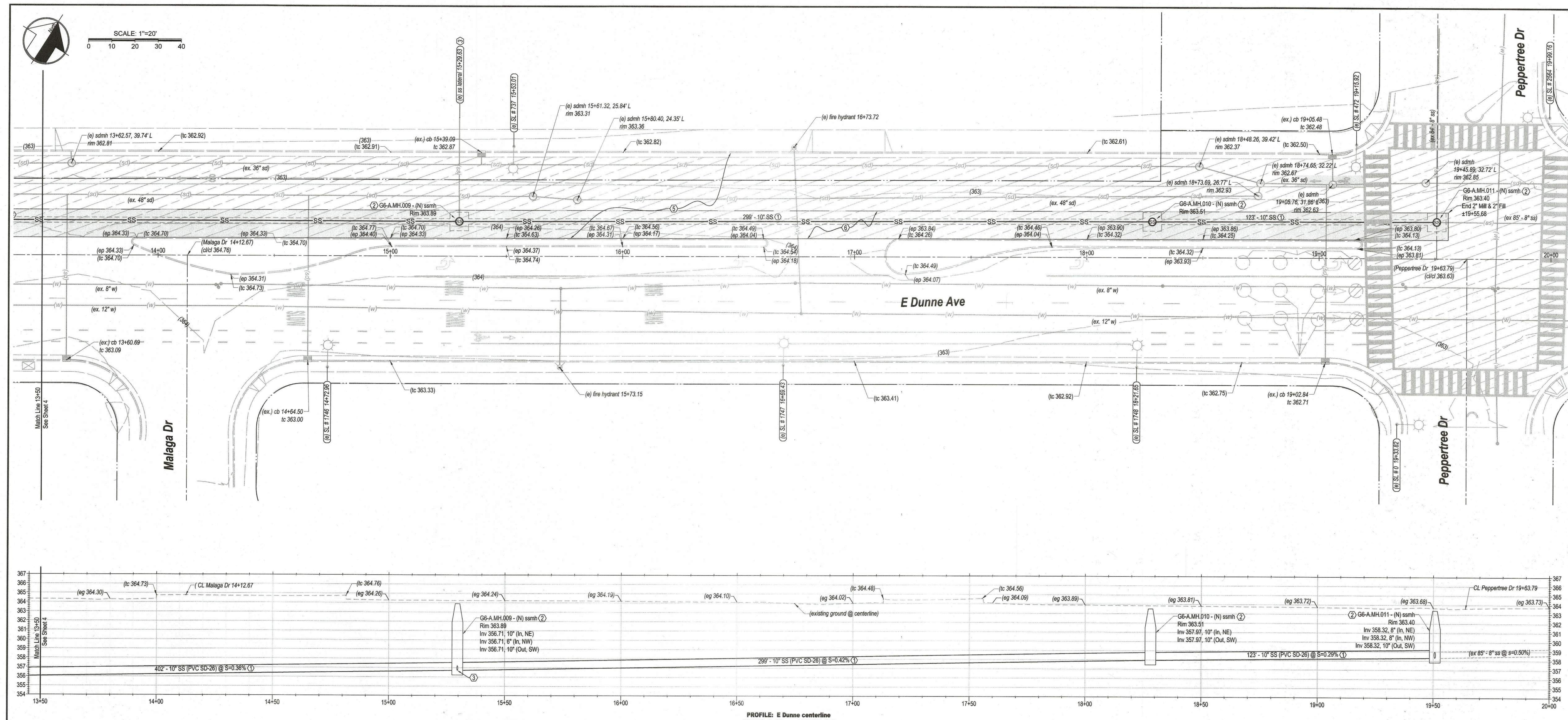
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Plan Profile - East Dunne Road 0+50 - 7+00

East Dunne Sewer Upsize Project

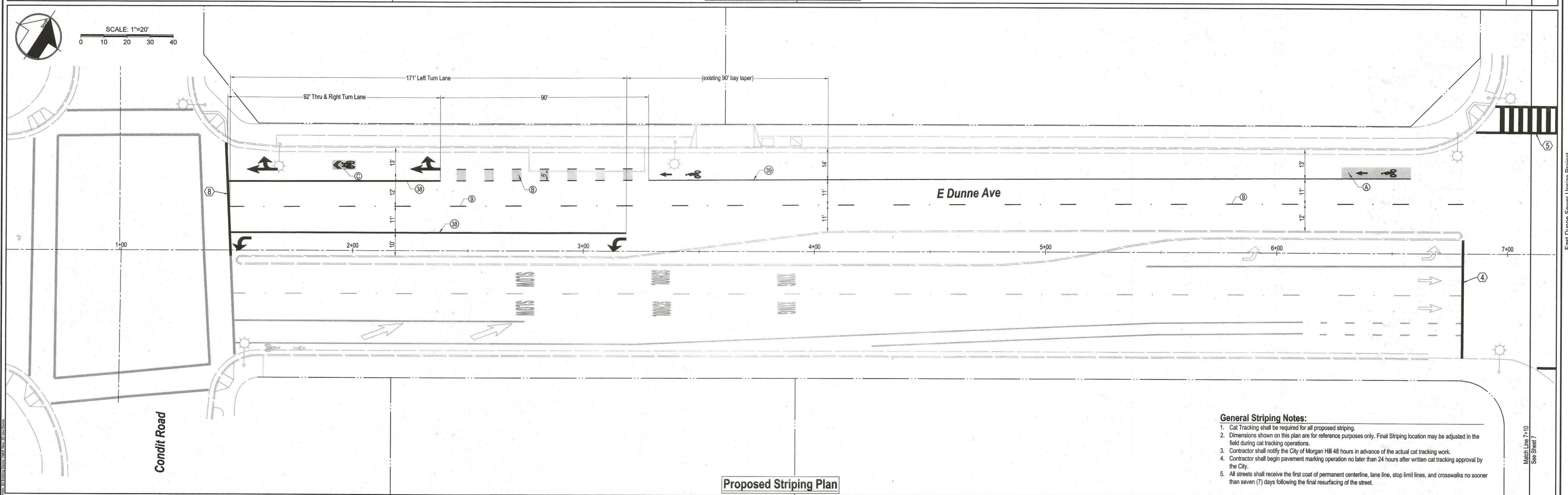
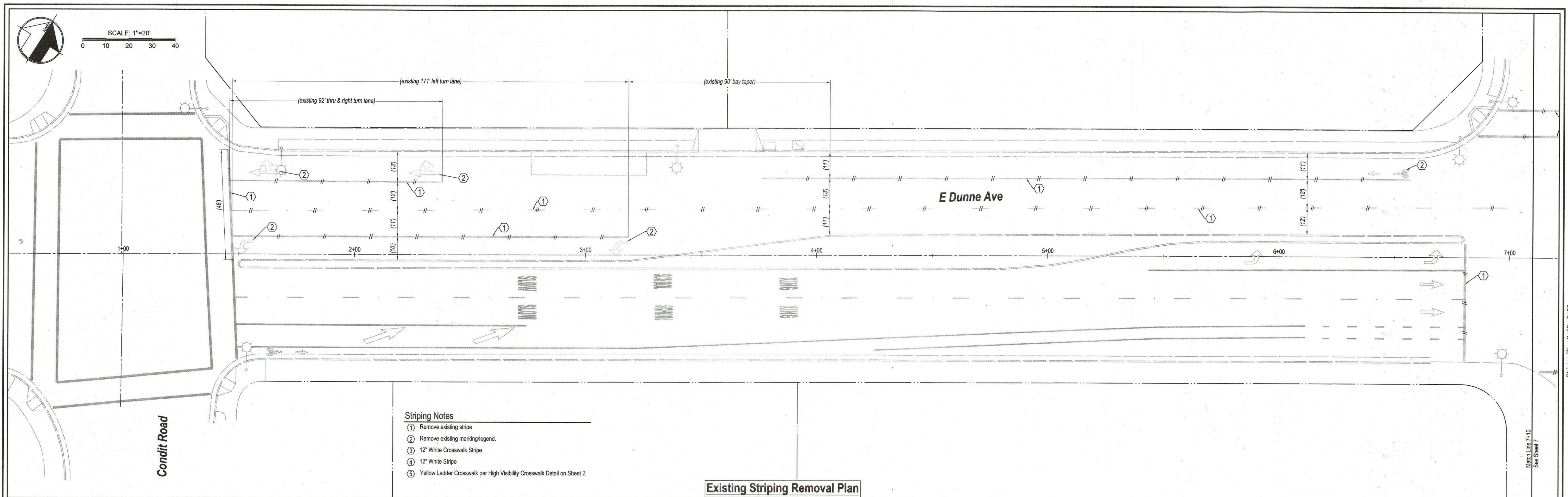
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CALIFORNIA

FILE NO. WW3009
PLAN SET: 3/12/25
DRAWING: 3 OF 10



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- Type 2 Slurry Seal
 - 2" AC Pavement Mill & Fill

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CHECKED: KW				DATE: 3/5/25				DATE: 3/14/25				JOB NO: WW3009				VERT: 1" = 5'													
CITY OF MORGAN HILL										City of Morgan Hill Engineering & Utilities 17575 PEAK AVE. MORGAN HILL, CA 95037 (408) 776-6480 FAX (408) 779-7236										Plan Profile - East Dunne Ave 13+50 - 20+00 East Dunne Sewer Upsize Project MORGAN HILL CALIFORNIA									
FILE NO: WW3009										PLAN SET: 3/12/25										DRAWING: 5 OF 10									



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								CHECKED:		DATE:		VERT.	
								KW		3/5/25		N/A	
NO. DESCRIPTION DATE BY				REV. DATE:				APPROVED:		DATE:		JOB NO.	
										3/12/25		WW3009	
REVISIONS								Scott C. Green RCE 59879 CITY ENGINEER EXP. DATE 06-30-2025					



City of Morgan Hill
Engineering & Utilities

17575 PEAK AVE. MORGAN HILL, CA 95037
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Striping Plan 0+50 - 7+00
East Dunne Sewer Upsize Project

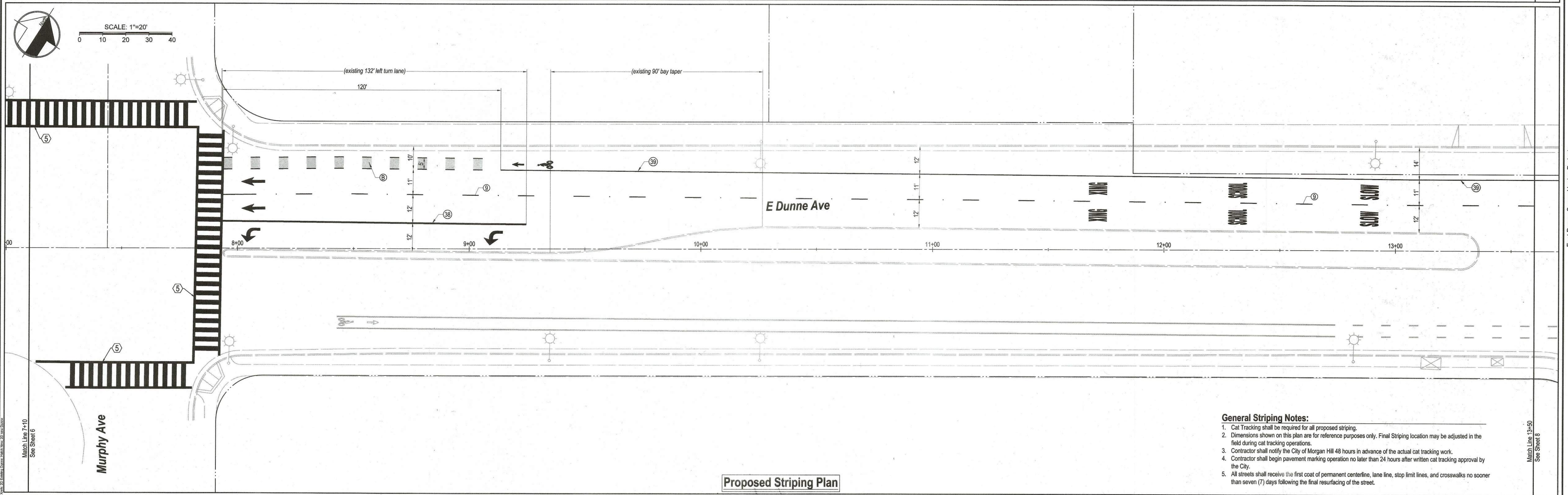
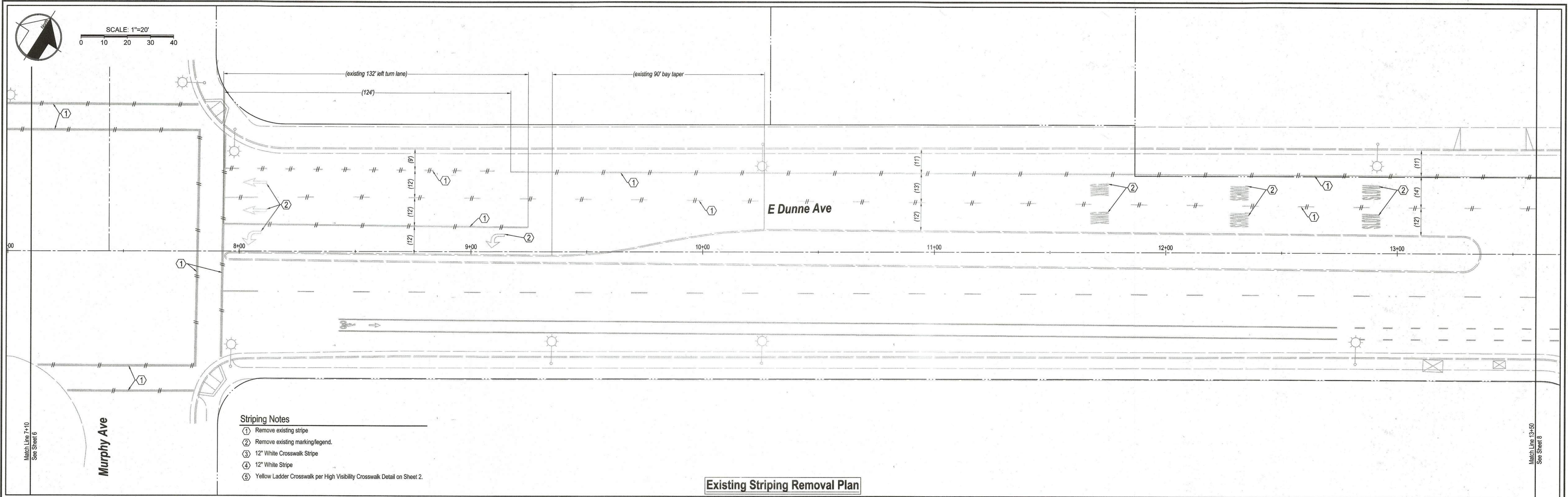
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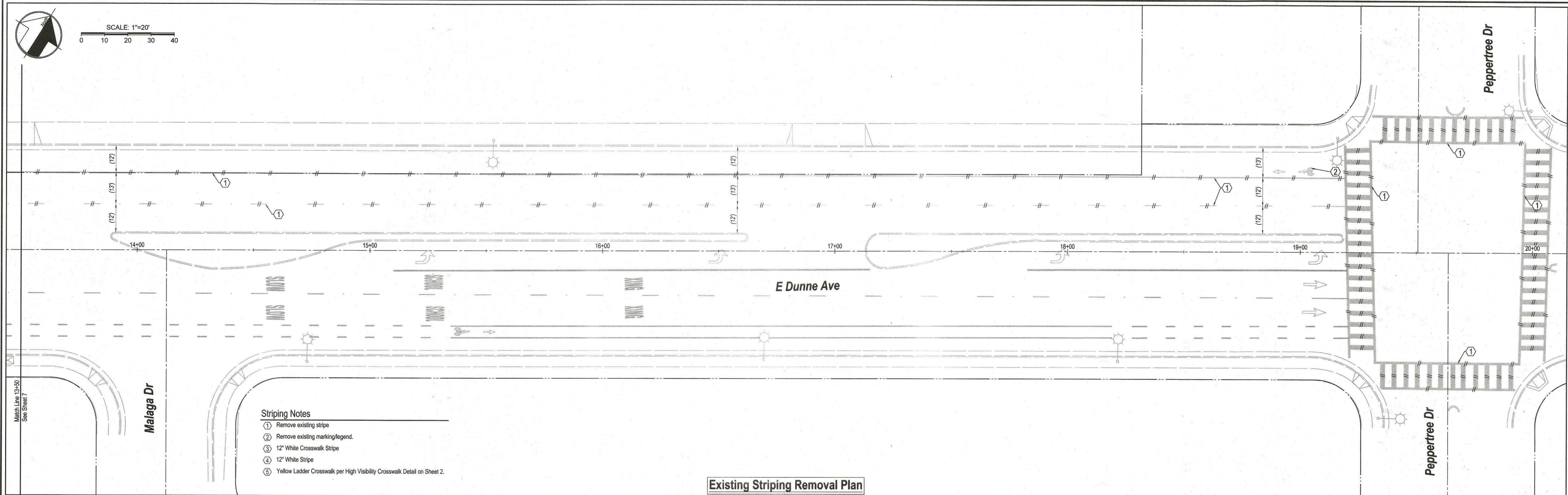
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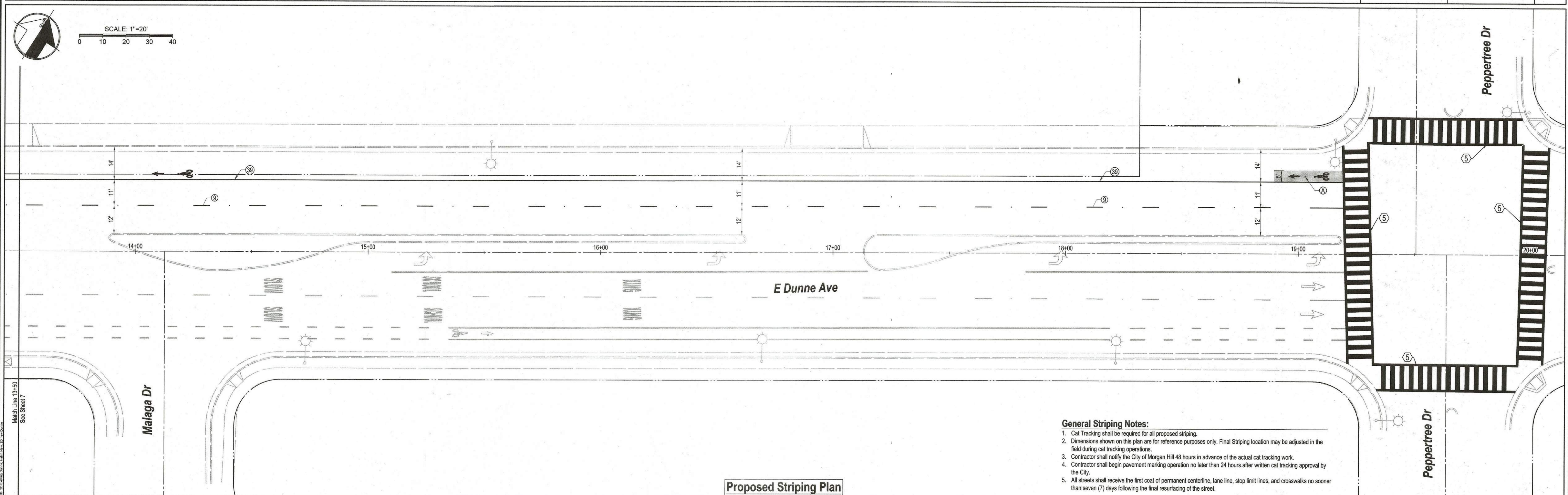
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												CITY OF MORGAN HILL	
												17575 PEAK AVE. MORGAN HILL, CA 95037	
												(408) 776-6480 FAX (408) 779-7236	



Existing Striping Removal Plan



Proposed Striping Plan

- General Striping Notes:**
1. Cat Tracking shall be required for all proposed striping.
 2. Dimensions shown on this plan are for reference purposes only. Final Striping location may be adjusted in the field during cat tracking operations.
 3. Contractor shall notify the City of Morgan Hill 48 hours in advance of the actual cat tracking work.
 4. Contractor shall begin pavement marking operation no later than 24 hours after written cat tracking approval by the City.
 5. All streets shall receive the first coat of permanent centerline, lane line, stop limit lines, and crosswalks no sooner than seven (7) days following the final resurfacing of the street.

NO.				DESCRIPTION				DATE	BY	BY	DATE
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								RCE 58679			
								CITY ENGINEER			
								EXP. DATE 06-30-2025			



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Striping Plan 13+50 - 20+00
East Dunne Sewer Upsize Project

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FILE NO: WW3009
PLAN SET: 3/12/25
DRAWING: 8 OF 10

