

CITY OF FERNDALE

WATER QUALITY AND DRAINAGE IMPROVEMENT PROJECT

SEWER OVERFLOW AND STORMWATER REUSE MUNICIPAL GRANT

AGREEMENT NO. D2219002

65% DESIGN

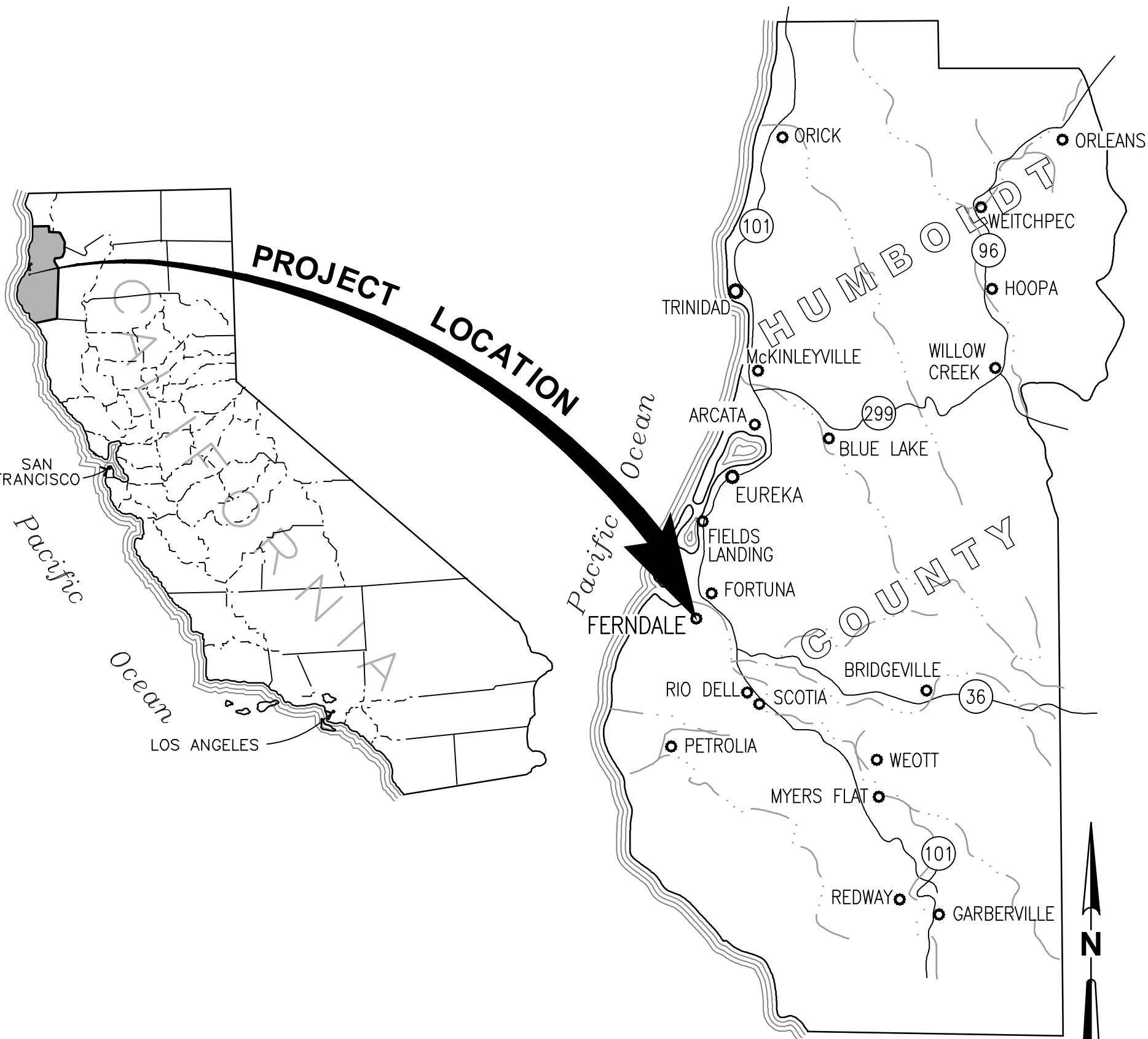
SEPTEMBER 2024

PROJECT NUMBER: 12638533

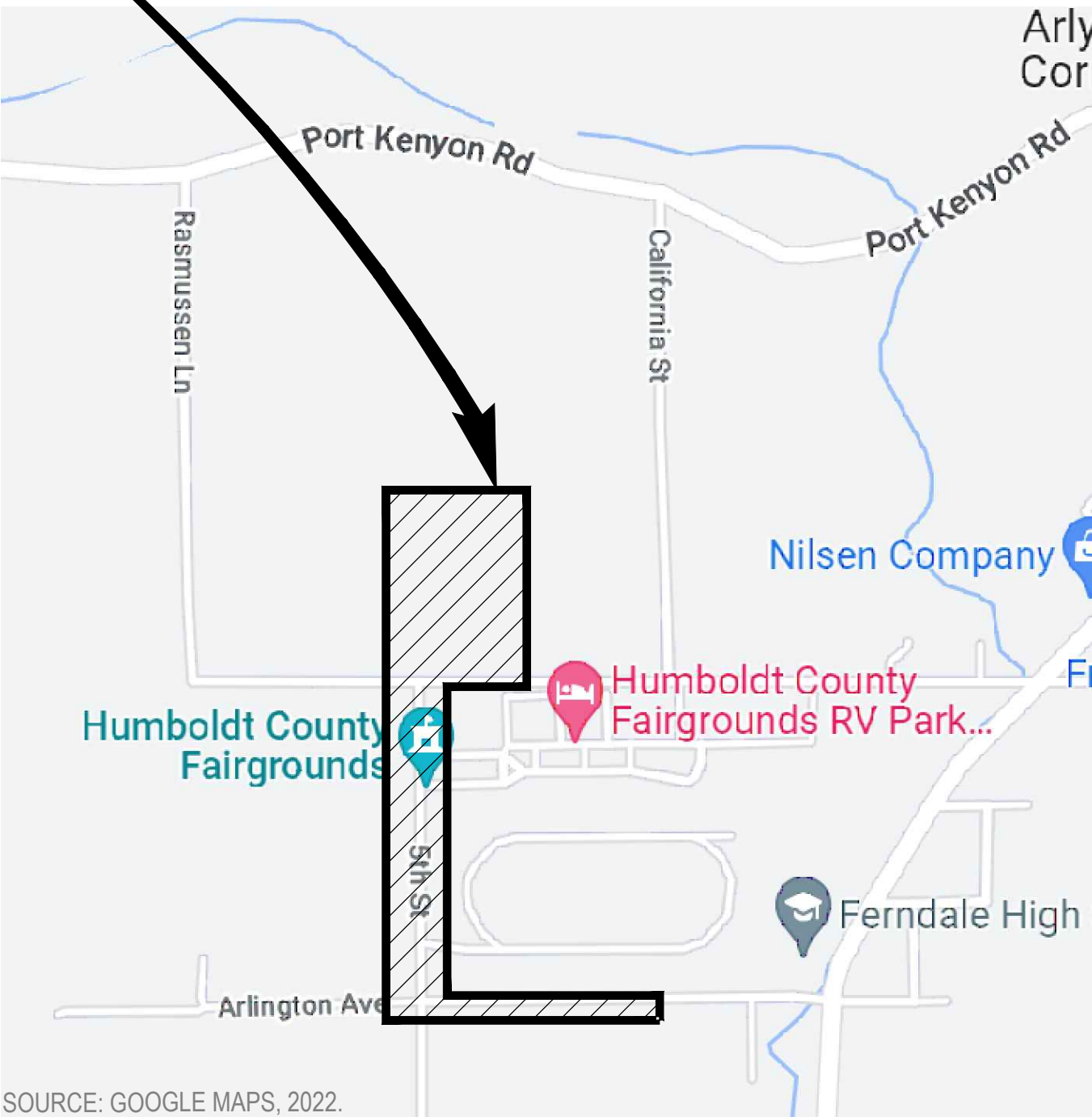
AREA MAP

LOCATION MAP

SHEET INDEX



PROJECT LOCATION



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PRELIMINARY

No.	Issue	Checked		Approved	Date
Author	Drafting Check	BRETT VIVYAN	Project Manager	BRETT VIVYAN	
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Client CITY OF FERNDALE

Project WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT

Project No. 12561178

Date 2024-09-12

Scale AS SHOWN

Title COVER SHEET

Size ANSI D

Sheet No. G-001
Sheet 1 of 13

GENERAL NOTES

- PROJECT REQUIRES A CLASS 2A GENERAL ENGINEERING CONTRACTOR'S LICENSE IN THE STATE OF CALIFORNIA.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE CITY'S PROJECT MANAGER. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING. SHOULD EXISTING CONDITIONS DIFFER FROM THOSE SHOWN OR INDICATED, OR IF IT APPEARS THAT THESE PLANS, AND SPECIFICATIONS DO NOT ADEQUATELY DETAIL THE WORK TO BE DONE, CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER PRIOR TO CONTINUING WITH ANY RELATED WORK. NO ALLOWANCE WILL BE MADE ON CONTRACTOR'S BEHALF FOR ANY EXTRA EXPENSE RESULTING FROM FAILURE OR NEGLECT IN DETERMINING THE CONDITIONS UNDER WHICH WORK IS TO BE PERFORMED. NOTED DIMENSIONS TAKE PRECEDENCE OVER SCALE.
3. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PAVEMENT JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER PAVEMENT AND DRAINAGE SLOPES FROM EXISTING TIE IN POINTS. REPORT DISCREPANCIES TO CITY'S PROJECT MANAGER PRIOR TO CONSTRUCTION.
4. QUANTITIES OF ITEMS, LENGTH OF PROJECT, AND SITE CONDITIONS SHOWN IN THE PLANS ARE APPROXIMATE. ALL MATERIALS SHALL BE FURNISHED AND INSTALLED BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
5. CONTRACTOR AGREES TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR THE JOB SITE 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 HOURS.
6. CONTRACTOR SHALL BE HELD RESPONSIBLE FOR ANY AND ALL DAMAGES TO EXISTING STRUCTURES, ROADS, AND UTILITIES DURING CONSTRUCTION. ALL DAMAGE SHALL BE RESTORED TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S EXPENSE.
7. A SET OF SIGNED WORKING DRAWINGS AND A SET OF SPECIFICATIONS WILL BE KEPT AT ALL TIMES AT THE JOB SITE ON WHICH ALL CHANGES OR VARIATIONS IN THE WORK, INCLUDING ALL EXISTING UTILITIES, ARE TO BE RECORDED AND/OR CORRECTED DAILY AND SUBMITTED TO THE CITY'S PROJECT MANAGER WHEN THE WORK TO BE DONE IS COMPLETED.
8. CONTRACTOR SHALL PROVIDE AND MAINTAIN SUFFICIENT TEMPORARY BARRIERS TO PROVIDE FOR THE SAFETY OF THE STAFF AND PUBLIC TO THE SATISFACTION OF THE CITY'S PROJECT MANAGER.
9. CONTRACTOR SHALL NOTIFY THE CITY'S PROJECT MANAGER AT LEAST 72 HOURS IN ADVANCE OF COMMENCEMENT OF ANY PART OF THE WORK AND SHALL COORDINATE CONSTRUCTION SCHEDULE ACCORDINGLY.
10. UNSUITABLE EXCAVATED MATERIAL SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND EXPENSE FOR PROPER DISPOSAL OF UNSUITABLE MATERIALS TAKEN FROM SITE.
11. THE DESIGN FEATURES INCLUDING HORIZONTAL AND VERTICAL ALIGNMENTS, TYPICAL SECTIONS, APPROACHES, AND OTHER DESIGN DETAILS SHOWN ON THESE DESIGN PLANS SHALL NOT BE ALTERED OR MODIFIED IN ANY WAY DURING CONSTRUCTION WITHOUT THE EXPRESSED, WRITTEN DIRECTION AND APPROVAL OF THE CITY'S PROJECT MANAGER. DRAINAGE STRUCTURES SHALL BE INSTALLED AS SHOWN ON THE PLANS WITH ONLY MINOR CORRECTIONS IN LOCATION SKEW AND/OR ELEVATIONS AS NEEDED TO FIT FIELD CONDITIONS AS DETERMINED BY THE CITY'S PROJECT MANAGER.
12. THE CONTRACTOR SHALL READ AND MAKE CAREFUL EXAMINATION OF THE PLANS, SPECIFICATIONS, QUANTITIES AND MATERIAL ESTIMATES AND VISIT THE SITE OF THE PROPOSED CONSTRUCTION TO BECOME FAMILIAR WITH THE SITE CONDITIONS AND LIMITATIONS BEFORE MAKING A BID. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY AND ALL ERRORS RESULTING FROM THE FAILURE TO MAKE SUCH AN EXAMINATION. ANY INFORMATION DERIVED FROM THE MAPS, PLANS, SPECIFICATIONS, PROFILES, DRAWINGS OR FROM THE ENGINEER WILL NOT RELIEVE THE CONTRACTOR FROM ANY RISK OR FROM FULFILLING THE TERMS OF THE CONTRACT.
13. NO WORK SHALL BE PERFORMED OUTSIDE OF THE DESIGNATED LIMITS OF WORK WITHOUT THE APPROVAL OF THE CITY'S PROJECT MANAGER.
14. THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING STAGING AREAS WITH THE CITY'S PROJECT MANAGER.
15. UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
16. THE CONTRACTOR SHALL BE REQUIRED TO SAWCUT OR GRIND THE EXISTING ASPHALT PAVEMENT WHERE OLD ASPHALT IS TO TIE INTO THE NEW ASPHALT PAVEMENT. THE CONTRACTOR SHALL BE REQUIRED TO TAPER THE NEW ASPHALT CONCRETE SURFACING TO MATCH THE EXISTING PAVEMENT SECTION AT TIE-IN POINTS AND TO PROVIDE FOR A SMOOTH TRANSITION AS DIRECTED BY THE CITY'S PROJECT MANAGER.
17. UNLESS OTHERWISE NOTED, THE CONTRACTOR SHALL PROTECT EXISTING SURVEY MONUMENTS WITHIN WORK LIMITS. ANY MONUMENT DAMAGED BY THE CONTRACTOR SHALL BE RESET IN ACCORDANCE WITH THE CALIFORNIA PROFESSIONAL LAND SURVEYORS ACT.
18. WHENEVER ANY MATERIAL OR EQUIPMENT IS INDICATED OR SPECIFIED BY PATENT OR PROPRIETARY NAME OR BY THE NAME OF THE MANUFACTURER, SUCH SPECIFICATION SHALL BE CONSIDERED AS USED FOR DESCRIBING THE MATERIAL OR EQUIPMENT DESIRED AND SHALL BE CONSIDERED AS USED FOR DESCRIBING THE MATERIAL OR EQUIPMENT DESIRED AND SHALL BE CONSIDERED AS FOLLOWED BY THE WORDS "OR APPROVED EQUAL". THE CONTRACTOR MAY OFFER ANY MATERIAL OR EQUIPMENT WHICH SHALL BE EQUAL IN EVERY RESPECT TO THAT SPECIFIED, PROVIDED THAT WRITTEN APPROVAL FIRST IS OBTAINED FROM THE CITY'S PROJECT MANAGER.

UTILITY NOTES

1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM RECORD DRAWINGS, LOCATION MARK-UP, AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR.
2. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION UNDER THIS SECTION OR ANY OTHER SECTION.
3. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.
4. CONTRACTOR SHALL COORDINATE A UTILITY LOCATE AT LEAST TWO WORKING DAYS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE THE UTILITY LOCATE WITH CITY FOR ALL UTILITY WORK. INFORM CITY'S PROJECT MANAGER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS.
5. CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION. CONTRACTOR SHALL REPAIR ANY DAMAGE TO EQUAL OR BETTER THAN THE EXISTING CONDITION AT CONTRACTORS SOLE EXPENSE.
6. ALL UTILITY CONSTRUCTION SHALL CONFORM TO CITY STANDARDS, AND CURRENT CALIFORNIA CODES.
7. ALL BURIED LINES TO HAVE 12 INCHES MINIMUM COVER, UNLESS NOTED OTHERWISE.
8. ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.
9. CONFIRM ALL UTILITY APPURTENANCES WITH CITY.
10. CONTRACTOR SHALL COORDINATE ALL UTILITY SHUTDOWNS WITH THE CITY PROJECT MANAGER, A MINIMUM OF TWO WEEKS IN ADVANCE.









WATER POLLUTION CONTROL NOTES

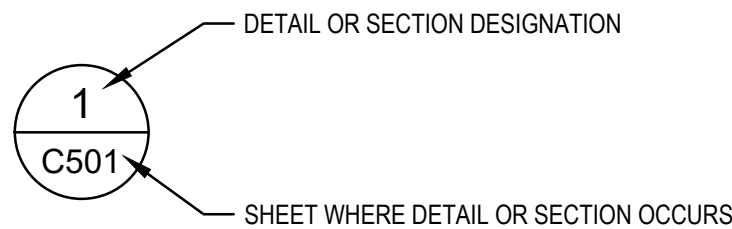
- AT A MINIMUM, THE CONTRACTOR SHALL EMPLOY THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPs) AS DESCRIBED IN THE CURRENT CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION (WWW.CASQA.ORG):
- | | |
|-------|----------------------------------|
| EC-1 | SCHEDULING |
| SE-1 | SILT FENCE |
| SE-5 | FIBER ROLLS |
| SE-7 | STREET SWEEPING AND VACUUMING |
| SE-10 | STORM DRAIN INLET PROTECTION |
| WE-1 | WIND EROSION CONTROL |
| NS-3 | PAVING AND GRINDING OPERATIONS |
| NS-9 | VEHICLE EQUIPMENT AND FUELING |
| NS-10 | VEHICLE & EQUIPMENT MAINTENANCE |
| WM-1 | MATERIALS DELIVERY AND STORAGE |
| WM-2 | MATERIAL USE |
| WM-3 | STOCKPILE MANAGEMENT |
| WM-4 | SPILL PREVENTION AND CONTROL |
| WM-5 | SOLID WASTE MANAGEMENT |
| WM-8 | CONCRETE WASTE MANAGEMENT |
| WM-9 | SANITARY/SEPTIC WASTE MANAGEMENT |
2. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO MINIMIZE EROSION AND PREVENT THE TRANSPORT OF SEDIMENT TO SENSITIVE AREAS.
3. SUFFICIENT EROSION CONTROL SUPPLIES SHALL BE AVAILABLE ON-SITE AT ALL TIMES TO DEAL WITH AREAS SUSCEPTIBLE TO EROSION DURING RAIN EVENTS.
4. MINIMIZE DISTURBANCE OF EXISTING VEGETATION TO THAT NECESSARY TO COMPLETE THE WORK.
5. THE CONTRACTOR SHALL MAKE ADEQUATE PREPARATIONS, INCLUDING TRAINING & EQUIPMENT, TO CONTAIN SPILLS OF OIL AND OTHER HAZARDOUS MATERIALS.
6. ACTIVITIES SUCH AS VEHICLE WASHING ARE TO BE CARRIED OUT AT AN OFF-SITE FACILITY WHEREIN THE WATER IS DISCHARGED INTO A SANITARY SEWER.
7. THE CONTRACTOR SHALL PROVIDE COVERED WASTE RECEPTACLE FOR COMMON SOLID WASTES AT CONVENIENT LOCATIONS ON THE JOB SITE AND PROVIDE REGULAR COLLECTION OF WASTES.
8. THE CONTRACTOR SHALL PROVIDE SANITARY FACILITIES OF SUFFICIENT NUMBER AND SIZE TO ACCOMMODATE CONSTRUCTION CREWS AND ENSURE ADEQUATE ANCHORAGE OF SUCH FACILITIES TO PREVENT THEM FROM BEING TIPPED BY THE WEATHER OR VANDALISM.
9. APPROPRIATE STORAGE AND DISPOSAL OF WATER FROM DEWATERING OPERATIONS SHALL BE EXERCISED IN THE EVENT THAT ACCUMULATED WATER MUST BE REMOVED FROM A WORK LOCATION.
10. COVERED AND SECURED STORAGE AREAS FOR POTENTIALLY TOXIC MATERIALS SHALL BE PROVIDED. ALL HAZARDOUS MATERIAL CONTAINERS SHOULD BE PLACED IN SECONDARY CONTAINMENT.
11. VEHICLE AND EQUIPMENT & MAINTENANCE SHOULD BE PERFORMED OFF-SITE WHENEVER PRACTICAL.
12. SOIL STOCKPILES SHALL BE COVERED, AND LOCATED AT LEAST 50 FEET AWAY FROM DRAINAGE CHANNELS AND STORMWATER SYSTEMS.
13. CONTRACTOR MUST ENSURE THAT THE CONSTRUCTION SITE IS PREPARED PRIOR TO THE ONSET OF ANY STORM.
14. ALL SEDIMENT DEPOSITED ON PAVED SURFACES SHALL BE SWEEPED AT THE END OF EACH WORKING DAY. AS NECESSARY OR AS DIRECTED BY THE OWNER'S REPRESENTATIVE, A STABILIZED CONSTRUCTION ENTRANCE MAY BE REQUIRED TO PREVENT SEDIMENT FROM BEING DEPOSITED ON PAVED ROADWAYS.
15. ALL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN ACCORDANCE TO THEIR RESPECTIVE BMP FACT SHEET UNTIL DISTURBED AREAS ARE STABILIZED.
16. THIS PLAN MAY NOT COVER ALL THE SITUATIONS THAT ARISE DURING CONSTRUCTION DUE TO UNANTICIPATED FIELD CONDITIONS. VARIATIONS MAY BE MADE TO THE PLAN IN THE FIELD SUBJECT TO THE APPROVAL OF OR AT THE DIRECTION OF THE OWNERS REPRESENTATIVE.
17. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIX ANY DEFICIENCIES INDICATED BY THE CITY'S PROJECT MANAGER TO PREVENT EROSION AND CONTROL SEDIMENT.

ABBREVIATIONS




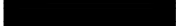

CITY	CITY OF FERDALE
DIA, Ø	DIAMETER
EL. ELEV	ELEVATION
EG	EXISTING GROUND
EX	EXISTING
FG	FINISHED GRADE
FL	FLOW LINE
FT	FOOT OR FEET
G	GAS
HMA	HOT MIX ASPHALT
JT	JOINT TRENCH
LF	LINEAR FEET
MAX	MAXIMUM
MIN	MINIMUM
(N)	NEW
OHE	OVERHEAD ELECTRICAL
S	SLOPE
SD	STORM DRAIN
SS	SANITARY SEWER
STA.	STATION
TYP	TYPICAL
W	WATER

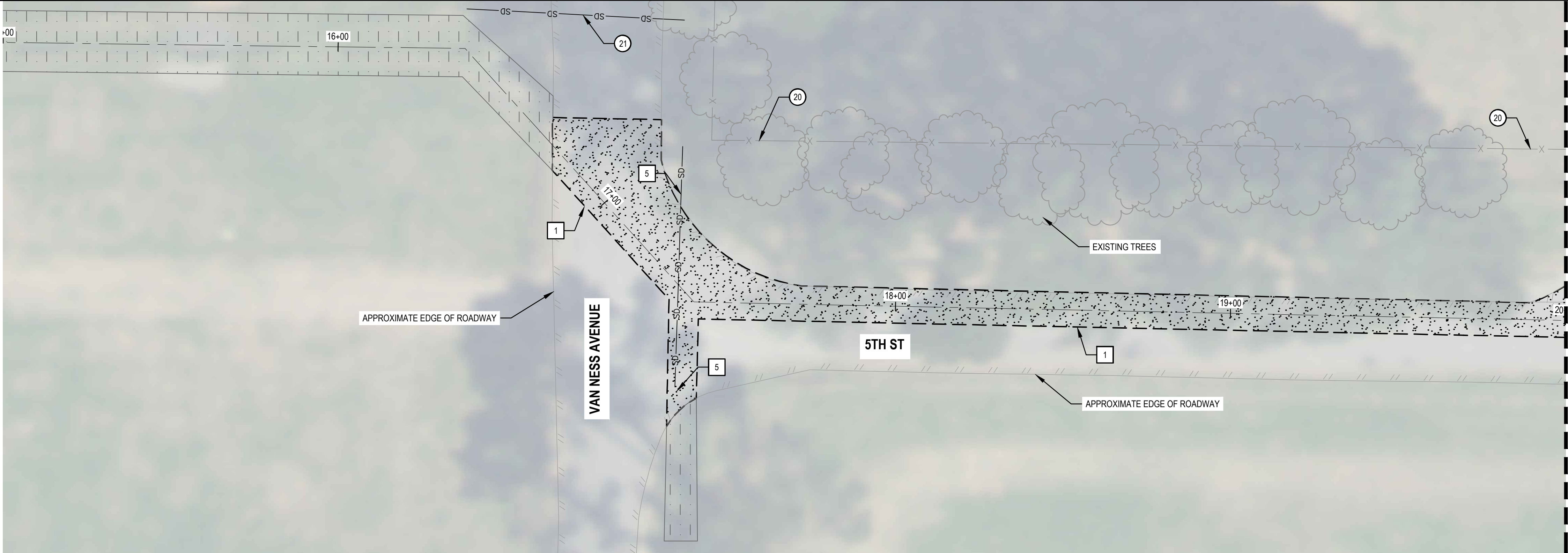
LEGEND

	EXISTING	PROPOSED
OVERHEAD ELECTRICAL	— OHE —	
STORM DRAIN PIPE	— SD —	
STORM DRAIN INLET		
STORM DRAIN MANHOLE		
SANITARY SEWER PIPE	— SS —	
SANITARY SEWER MANHOLE		
WATER MAIN	— W —	
WATER VALVE		
FIRE HYDRANT		
ENCE	— X —	
ELECTRICAL POLE		
PROPERTY LINE	— — —	
EDGE OF PAVEMENT		
STORM WATER DITCH	— — —	
MINOR CONTOUR	— — — —	
MAJOR CONTOUR	— — — —	
LIMITS OF DISTURBANCE		— — — —
LIMITS OF GRADING		— — — — — — — —



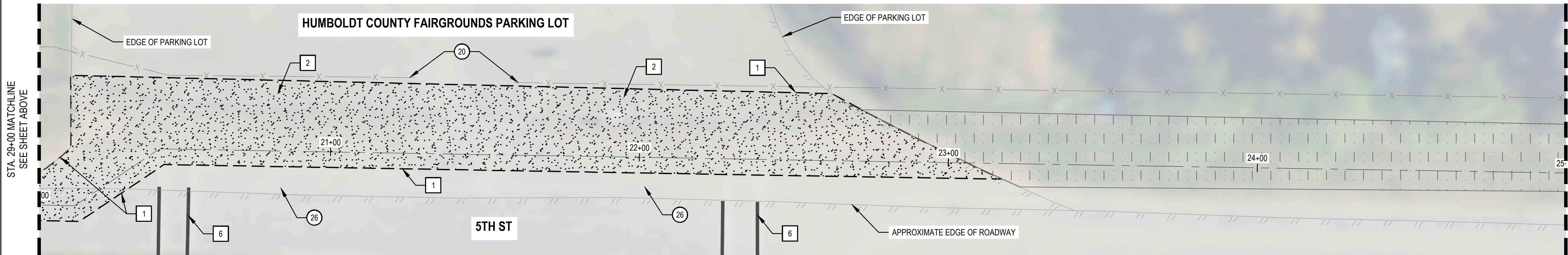
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Project No.		12561178		Date		2024-09-12		Scale		AS SHOWN		Sheet No.		G-002		Sheet		2 of 1	



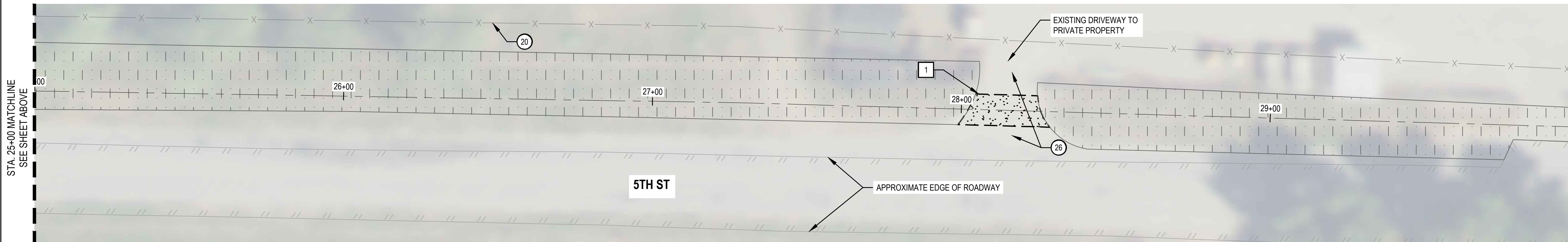
DEMOLITION STATION 17+00 TO 20+00

SCALE: 1" = 20'



DEMOLITION STATION 20+00 TO 25+00

SCALE: 1" = 20'



DEMOLITION STATION 25+00 TO 30+00

SCALE: 1" = 20'

DEMOLITION NOTES

1. SAWCUT LINE. SAWCUT AND REMOVE ASPHALT PER SHEET C-301 DETAIL 6.
2. REMOVE EXISTING AB AND AC PAVEMENT.
3. REMOVE EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK.
4. REMOVE AND DISPOSE OF EXISTING STORM DRAIN INLET.
5. REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE.
6. REMOVE AND REPLACE EXISTING STRIPING.

PROTECTION KEYNOTES

20. PROTECT EXISTING FENCE.
21. PROTECT EXISTING STORM DRAIN PIPE.
22. PROTECT EXISTING POTABLE WATER LINES, VALVES, APPURTENANCES.
23. PROTECT EXISTING UNDERGROUND AND OVERHEAD OVERHEAD ELECTRICAL LINES.
24. PROTECT EXISTING SANITARY SEWER PIPE, MANHOLE, OR LATERAL.
25. PROTECT EXISTING CURB, GUTTER, OR SIDEWALK.
26. PROTECT EXISTING ASPHALT.
27. PROTECT ROADWAY SIGNAGE.

SHEET GENERAL NOTES

1. FEATURES OUTSIDE OF PROJECT LIMITS SHALL BE PRESERVED/ PROTECTED, UNLESS NOTED OTHERWISE.
2. CONTRACTORS SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES FOUND TO BE WITHIN WORK ZONE (HORIZONTALLY AND VERTICALLY) SHALL BE REVIEWED WITH THE ENGINEER

LEGEND

- CLEAR AND GRUB, REMOVE VEGETATION AND MISC. MATERIALS AS NEEDED FOR IMPROVEMENTS
- APPROXIMATE EXTENTS OF PAVEMENT REMOVAL. TRENCHING AND PAVEMENT REMOVAL PER SHEET C-301 DETAIL 6
- APPROXIMATE SAWCUT LINE
- EXISTING FENCE

LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.



PRELIMINARY

No.	Issue	Checked	Approved	Date
Author	Drafting Check	BRETT VIVYAN	Project Manager	BRETT VIVYAN
Designer	Design Check	BRETT VIVYAN	Project Director	JEREMY SVEHLA



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Project WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT

Project No. 12561178

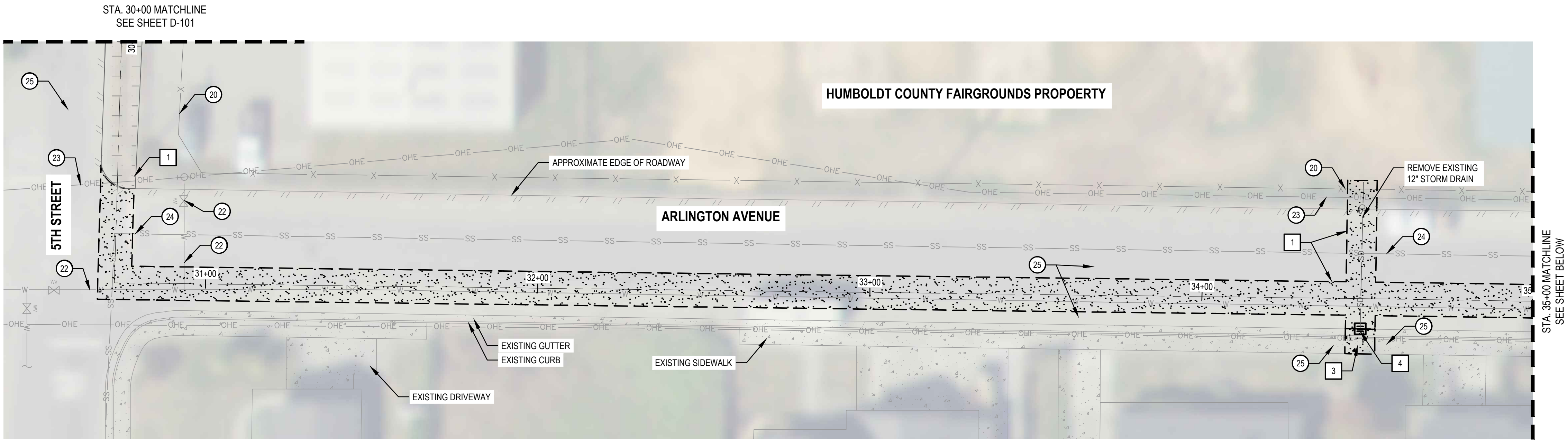
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Scale AS SHOWN

Title EXISTING CONDITIONS AND DEMOLITION PLAN

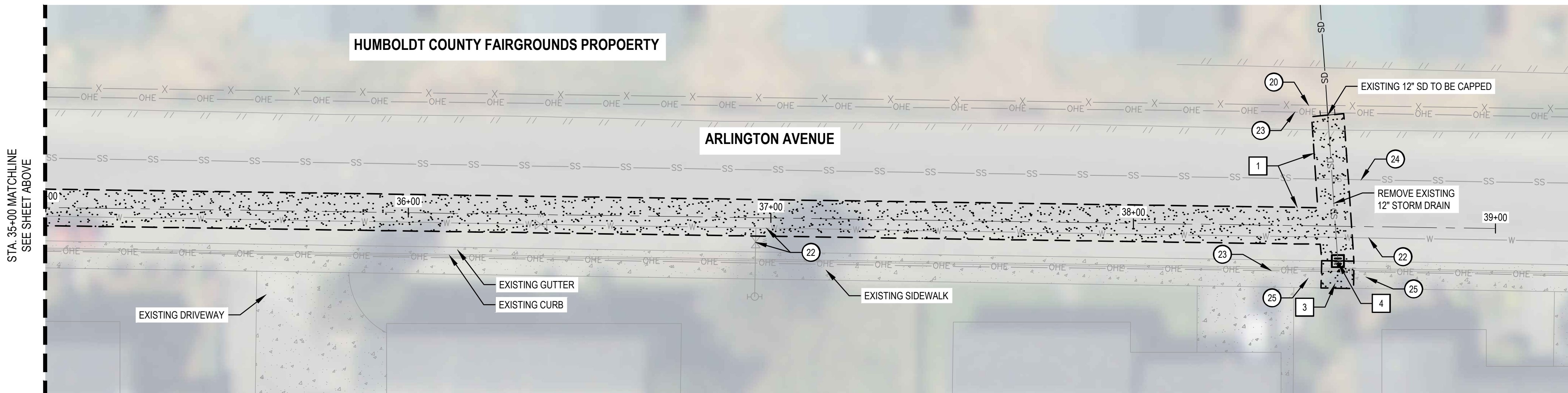
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Sheet No. D-101
Sheet 4 of 13



DEMOLITION STATION 30+00 TO 35+00

SCALE: 1" = 20'



DEMOLITION STATION 35+00 TO 39+00

SCALE: 1" = 20'

DEMOLITION NOTES

- SAWCUT LINE. SAWCUT AND REMOVE ASPHALT PER SHEET C-301 DETAIL 6.
- REMOVE EXISTING AB AND AC PAVEMENT.
- REMOVE EXISTING CONCRETE CURB, GUTTER, OR SIDEWALK.
- REMOVE AND DISPOSE OF EXISTING STORM DRAIN INLET.
- REMOVE AND DISPOSE OF EXISTING STORM DRAIN PIPE.
- REMOVE AND REPLACE EXISTING STRIPING.

PROTECTION KEYNOTES

- PROTECT EXISTING FENCE.
- PROTECT EXISTING STORM DRAIN PIPE.
- PROTECT EXISTING POTABLE WATER AND OVERHEAD ELECTRICAL LINES.
- PROTECT EXISTING SANITARY SEWER PIPE, MANHOLE, OR LATERAL.
- PROTECT EXISTING CURB, GUTTER, OR SIDEWALK.
- PROTECT EXISTING ASPHALT.
- PROTECT ROADWAY SIGNAGE.

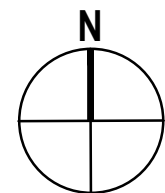
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Project **WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT**

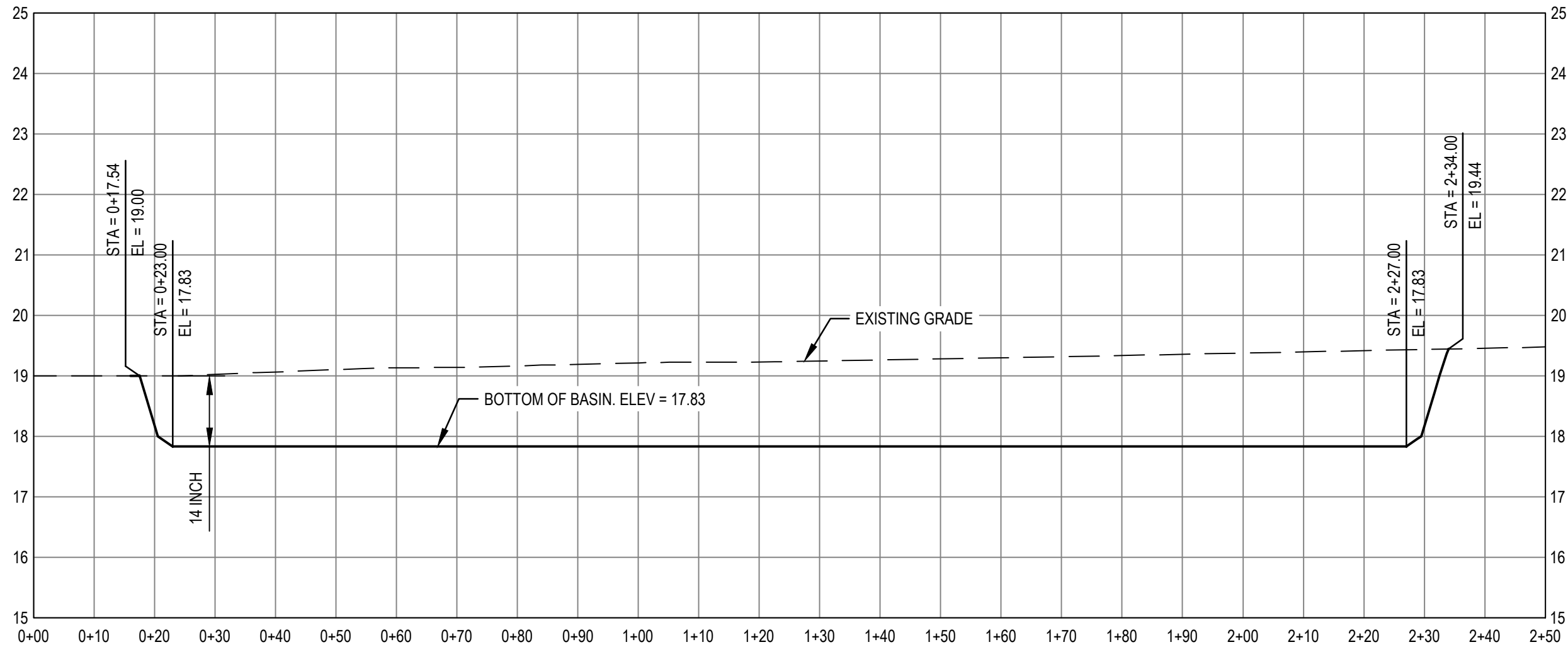
Project No. **12561178** Date **2024-09-12** Scale **AS SHOWN**

Title **EXISTING CONDITIONS AND DEMOLITION PLAN**

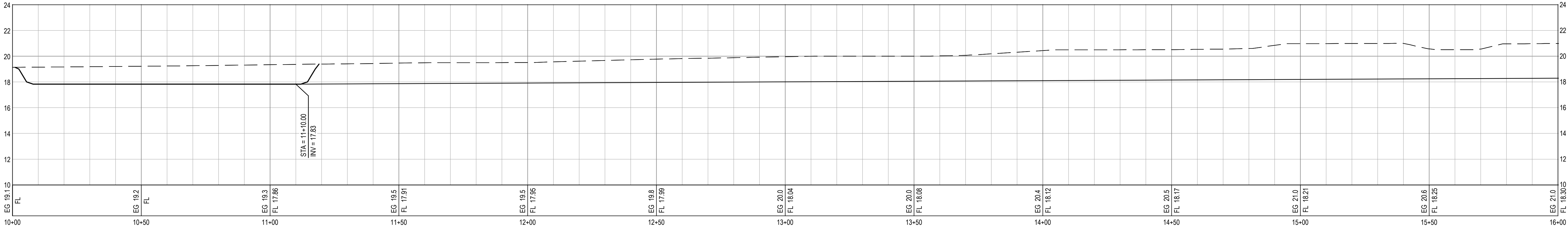
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Sheet No. **D-102** Sheet **5 of 13**

Sheet No. **C-101** Sheet 6 of 11



SECTION A
SCALE: 1"= 20' H, 1"= 5' V



STA. 10+00 TO 16+00 PROFILE VIEW

SCALE: 1" = 20' HORZ. 5:1 VERTICAL EXAGGERATION

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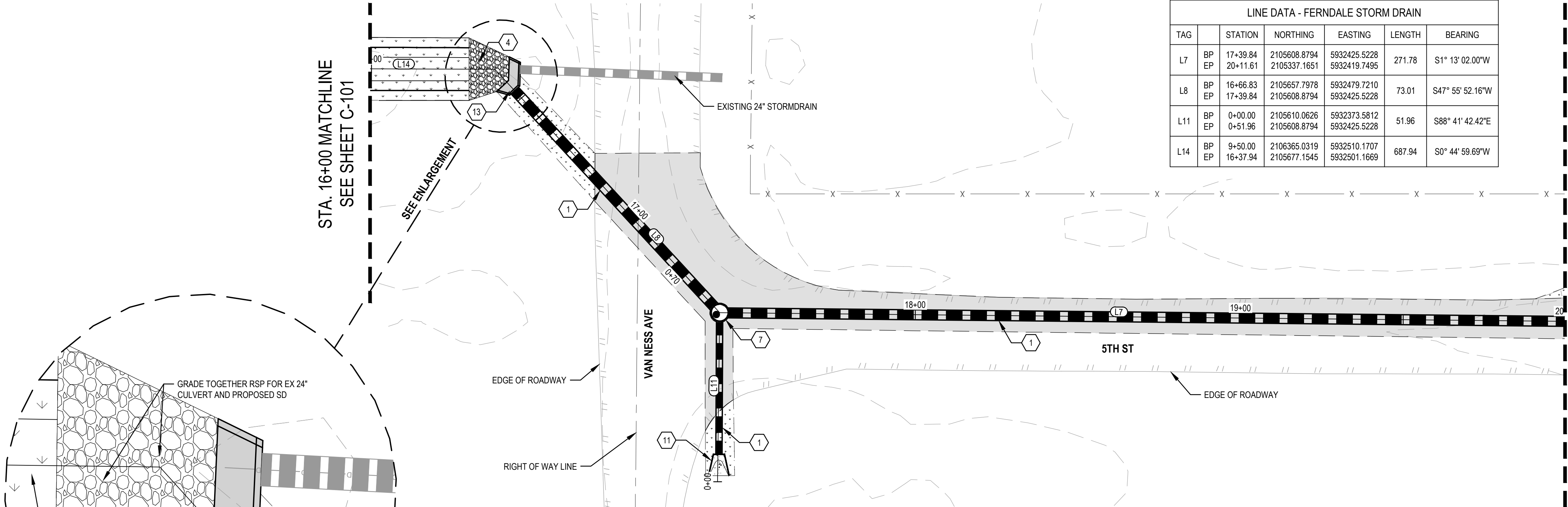
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Client	CITY OF FERNDALE		
Project	WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT		

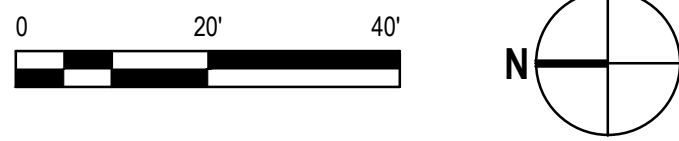
Title	GRADING SECTIONS		
Project No.	12561178	Date	2024-09-12
Scale	AS SHOWN		



LINE DATA - FERNDAL STORM DRAIN					
TAG		STATION	NORTHING	EASTING	LENGTH
L7	BP	17+39.84	2105608.8794	5932425.5228	271.78
	EP	20+11.61	2105337.1651	5932419.7495	
L8	BP	16+66.83	2105657.7978	5932479.7210	73.01
	EP	17+39.84	2105608.8794	5932425.5228	
L11	BP	0+00.00	2105610.0626	5932373.5812	51.96
	EP	0+51.96	2105608.8794	5932425.5228	
L14	BP	9+50.00	2106365.0319	5932510.1707	687.94
	EP	16+37.94	2105677.1545	5932501.1669	

VAN NESS AND 5TH STREET INTERSECTION PLAN VIEW

SCALE: 1" = 20'



CONSTRUCTION KEYNOTES

- CONSTRUCT HDPE STORM DRAIN, TRENCHING, PIPE BACKFILL AND BEDDING PER SHEET C-301 DETAIL 6.
- CONSTRUCT BIOSWALE WITH DIMENSIONS PER SHEET C-301 DETAIL 2.
- CONSTRUCT SHALLOW BIOSWALE WITH DIMENSIONS PER SHEET C-301 DETAIL 3. FIT GRADE TO MEET EXISTING.
- INSTALL RSP SLOPE PROTECTION PER SHEET C-301 DETAIL 5.
- CONSTRUCT 6 FT WIDE CALTRANS A24F YELLOW THERMOPLASTIC CROSSWALK STRIPING. BOTH CROSSWALKS TO BE BASIC STYLE.
- INSTALL NSBB-510 OR APPROVED EQUAL PER MANUFACTURER INSTRUCTIONS.
- CONSTRUCT 60-INCH ECCENTRIC STORM DRAIN PRECAST MANHOLE CONFORMING TO SPPWC STANDARD PLAN 320-2.
- CONSTRUCT 72-INCH ECCENTRIC STORM DRAIN PRECAST MANHOLE CONFORMING TO SPPWC STANDARD PLAN 320-2.
- CONSTRUCT PRECAST DRAINAGE INLET CONFORMING TO CALTRANS STANDARD PLAN D72E. REFER TO TYPE GO WITH CURB TYPE A1-6. T = 6 INCHES.
- CONSTRUCT CHECK DAMS PER SHEET C-301 DETAIL 1.
- INSTALL HDPE FLARED END SECTION PER MANUFACTURER'S SPECIFICATIONS.
- CONSTRUCT VEGETATED STORMWATER CURB EXTENSION (VSCE) PER CITY OF LOS ANGELES STANDARD PLAN S-484-0.
- CONSTRUCT HEADWALL.
- CONSTRUCT PRECAST CONCRETE DITCH INLET CONFORMING TO CALTRANS STANDARD PLAN D75B. REFER TO TYPE GOP. H PER PLANS.

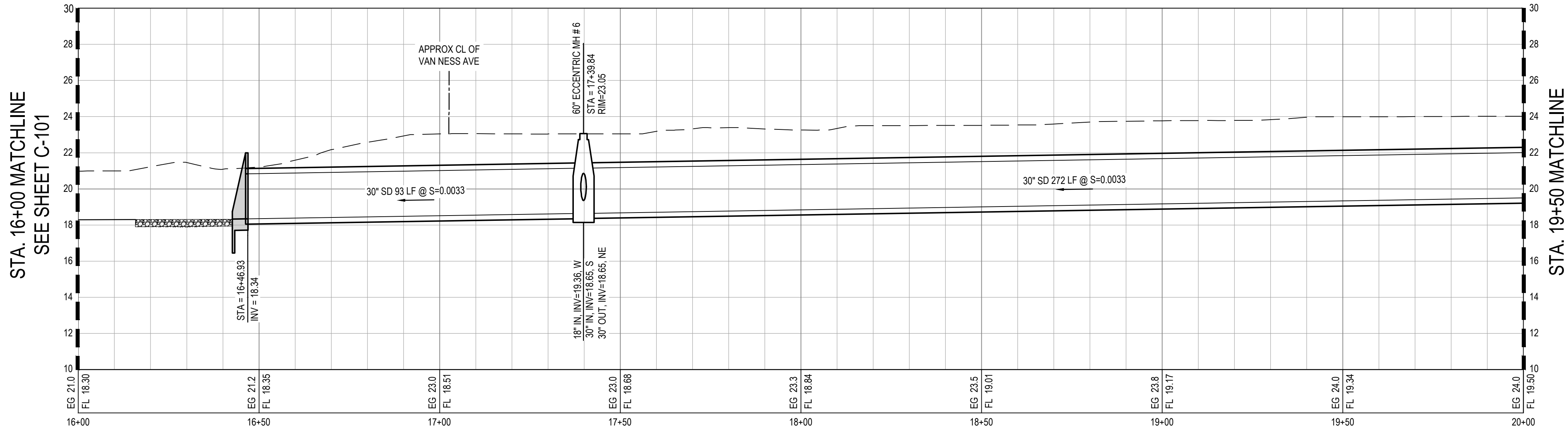
SHEET GENERAL NOTES

- FEATURES OUTSIDE OF PROJECT LIMITS SHALL BE PRESERVED/ PROTECTED, UNLESS NOTED OTHERWISE.
- CONTRACTORS SHALL VERIFY LOCATION AND DEPTH OF ALL UTILITIES PRIOR TO CONSTRUCTION. ANY UTILITIES FOUND TO BE WITHIN WORK ZONE (HORIZONTALLY AND VERTICALLY) SHALL BE REVIEWED WITH THE ENGINEER

LEGEND

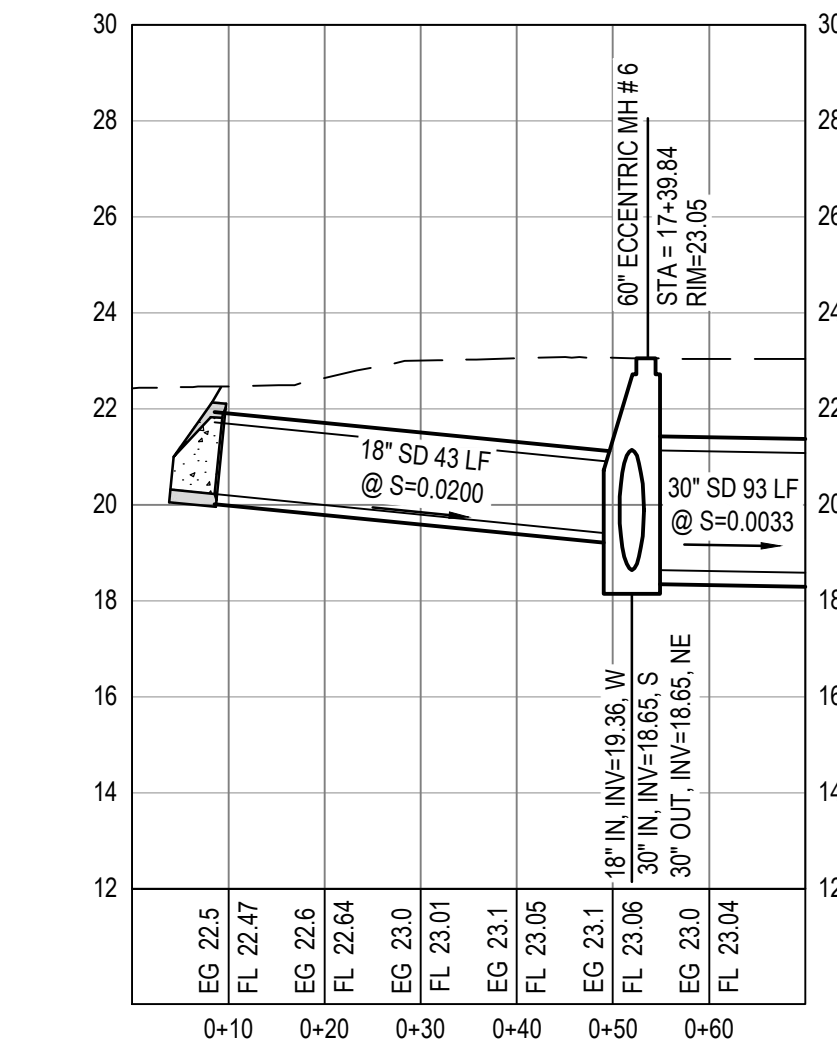
- APPROXIMATE LIMITS OF PAVEMENT REPAIR
- APPROXIMATE LIMITS OF HYDROSEED
- APPROXIMATE LIMITS OF CONCRETE REPLACEMENT
- EXISTING GRADE
- FINISH GRADE
- EXISTING FENCE

LOCATION OF EXISTING UTILITIES AND STRUCTURES ARE FROM THE BEST INFORMATION AVAILABLE. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED. CONTRACTORS SHALL NOTIFY UNDERGROUND SERVICE ALERT (USA) AT (800) 227-2600 OR DIAL 811 A MINIMUM OF 48 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR EXACT LOCATION.



VAN NESS AND 5TH STREET INTERSECTION PROFILE VIEW

SCALE: 1" = 20' HORZ. 5:1 VERTICAL EXAGGERATION



VAN NESS CULVERT PROFILE VIEW

SCALE: 1" = 20' HORZ. 5:1 VERTICAL EXAGGERATION

PRELIMINARY

No.	Issue	Checked		Approved	Date
Author	Drafting Check	BRETT VIVYAN	Project Manager	BRETT VIVYAN	
Designer	TAYLOR ALLEN	Design Check	BRETT VIVYAN	Project Director	JEREMY SVEHLA



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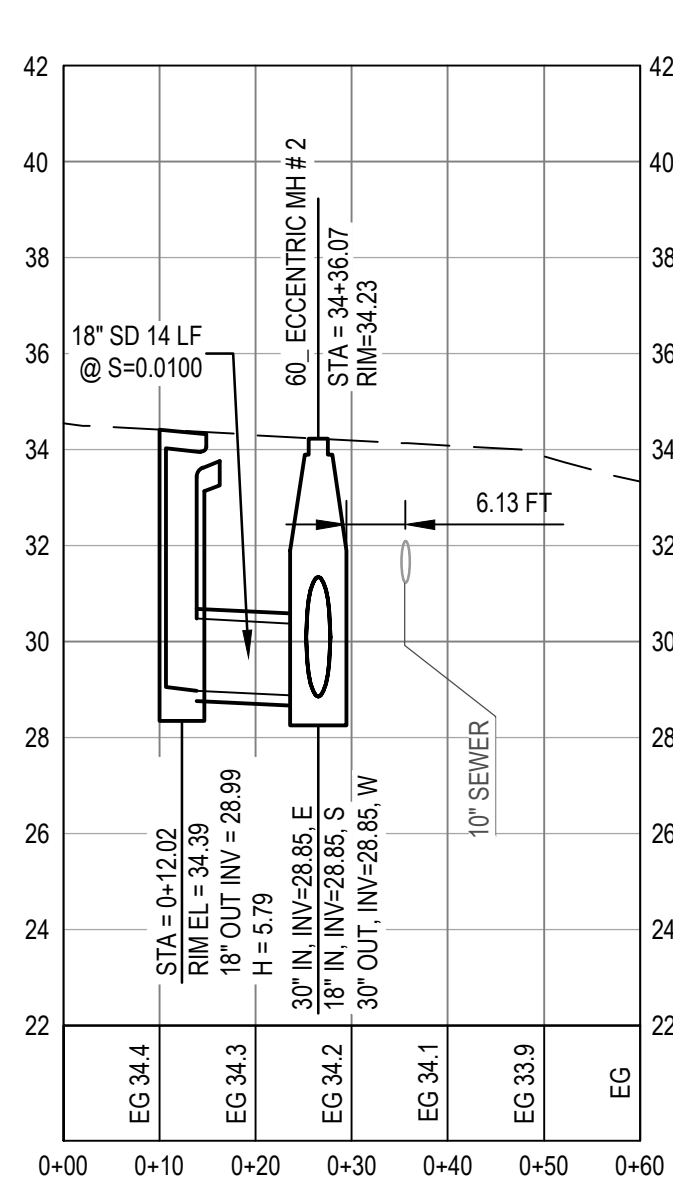


Client CITY OF FERNDAL
Project WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT

Project No. 12561178
Date 2024-09-12
Scale AS SHOWN

Title VAN NESS AVE AND 5TH ST PLAN AND PROFILE STA. 16+00 TO 20+00

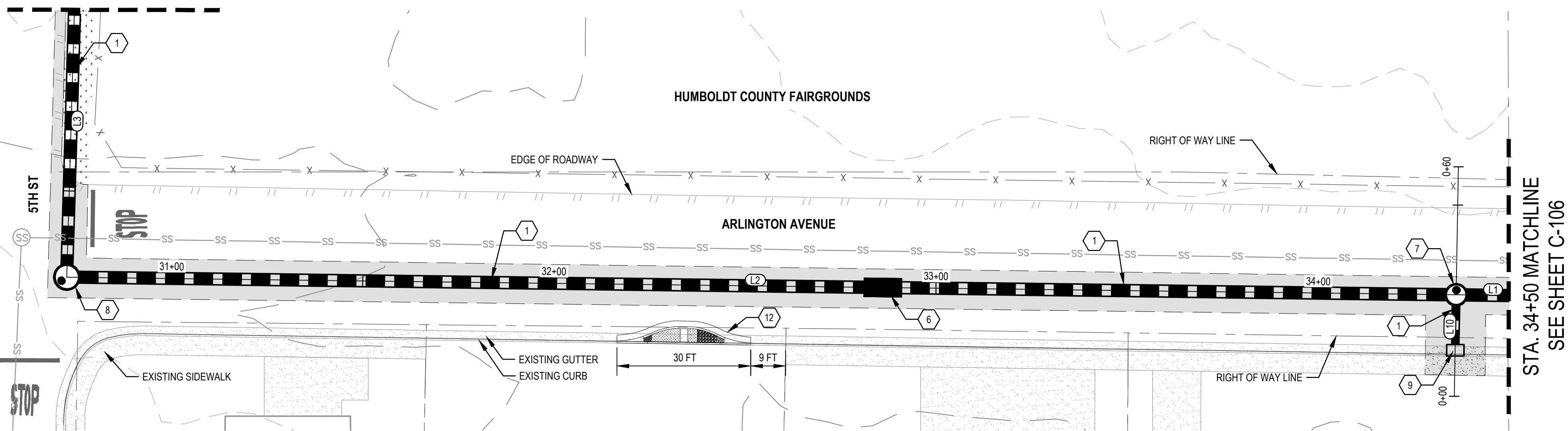
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Sheet No. C-103
8 of 13



PROFILE - WEST LATERAL

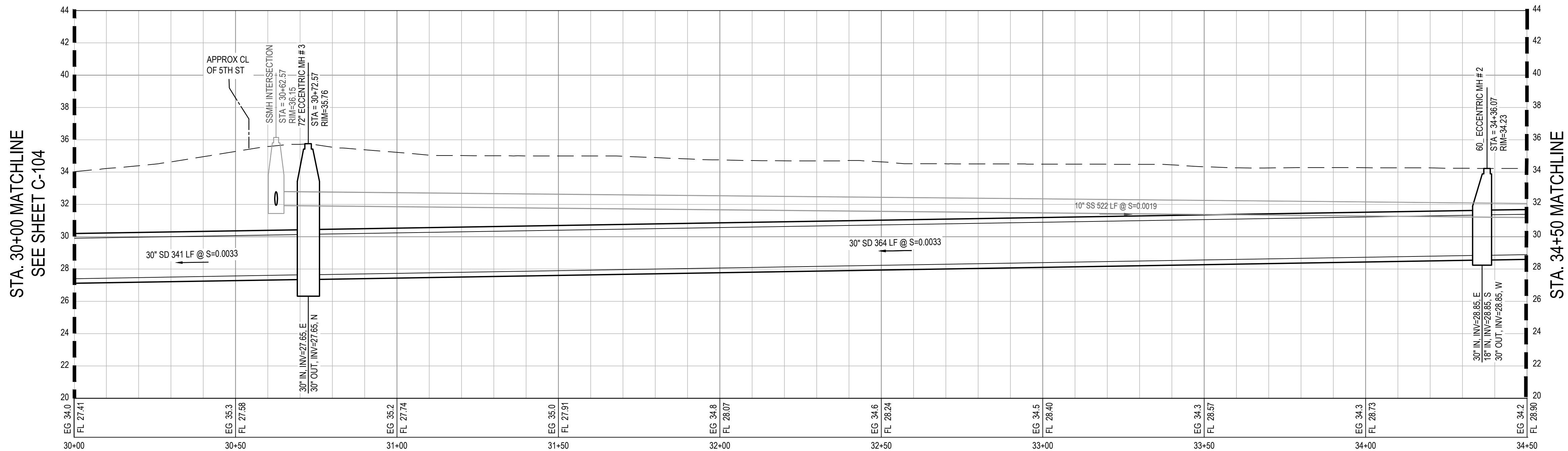
SCALE: 1" = 20' HORIZ; 5:1 VERTICAL EXAGGERATION

STA. 30+00 MATCHLINE
SEE SHEET C-104



ARLINGTON AVE STA 30+00 TO 34+50 PLAN VIEW

SCALE: 1" = 20'



ARLINGTON AVE STA 30+00 TO 34+50 PROFILE VIEW

SCALE: 1" = 20" HORIZ; 5:1 VERTICAL EXAGGERATION

CONSTRUCTION KEYNOTES

- CONSTRUCT HDPE STORM DRAIN, TRENCHING, PIPE BACKFILL AND BEDDING PER SHEET C-301 DETAIL 6.
- CONSTRUCT BIOSWALE WITH DIMENSIONS PER SHEET C-301 DETAIL 2.
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- CONSTRUCT PRECAST CONCRETE DITCH INLET CONFORMING TO CALTRANS STANDARD PLAN D75B. REFER TO TYPE GOP. H PER PLANS.

SHEET GENERAL NOTES

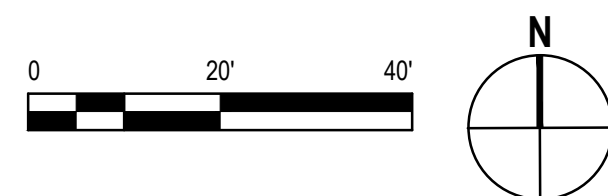
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LEGEND

- APPROXIMATE LIMITS OF PAVEMENT REPAIR
- APPROXIMATE LIMITS OF HYDROSEED
- APPROXIMATE LIMITS OF CONCRETE REPLACEMENT
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- FINISH GRADE
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LINE DATA - FERDALE STORM DRAIN					
TAG		STATION	NORTHING	EASTING	BEARING
L1	BP	34+42.60	2104277.3141	5932786.5467	S89° 09' 56.86"E
	EP	38+99.88	2104270.6565	5933243.7757	
L2	BP	30+72.57	2104282.0269	5932416.5400	S89° 16' 12.91"E
	EP	34+42.60	2104277.3141	5932786.5467	
L3	BP	27+31.66	2104622.7874	5932426.4393	S1° 39' 50.46"W
	EP	30+72.57	2104282.0269	5932416.5400	
L10	BP	0+00.00	2104250.8745	5932779.5735	N1° 02' 07.05"E
	EP	0+60.00	2104310.8617	5932780.6575	



PRELIMINARY

No.	Issue		Checked	Approved	Date
Author		Drafting Check	BRETT VIVYAN	Project Manager	BRETT VIVYAN
Designer	TAYLOR ALLEN	Design Check	BRETT VIVYAN	Project Director	JEREMY SVEHLA



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Client	CITY OF FERDALE
Project	WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT
Project No.	12561178
Date	2024-09-12
Scale	AS SHOWN

Title	5TH ST AND ARLINGTON AVE PLAN AND PROFILE STA. 30+00 To 34+50
Sheet No.	C-105
Sheet	10 of 13

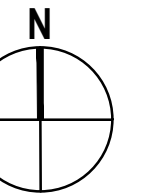


- ## SHEET GENERAL NOTES

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PRELIMINARY

No.	Issue	Checked	Approved	Date	
Author	Drafting Check	BRETT VIVYAN	Project Manager	BRETT VIVYAN	
Designer	TAYLOR ALLEN	Design Check	BRETT VIVYAN	Project Director	JEREMY SVEHLA



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Client **CITY OF FERNDALE**

Project **WATER QUALITY AND DRAINAGE
IMPROVEMENTS PROJECT**

Project No.
12561178

Date
2024-09-12

Scale
AS SHOWN

Title **ARLINGTON AVE PLAN AND
PROFILE STA. 34+50 TO 38+60**

Size
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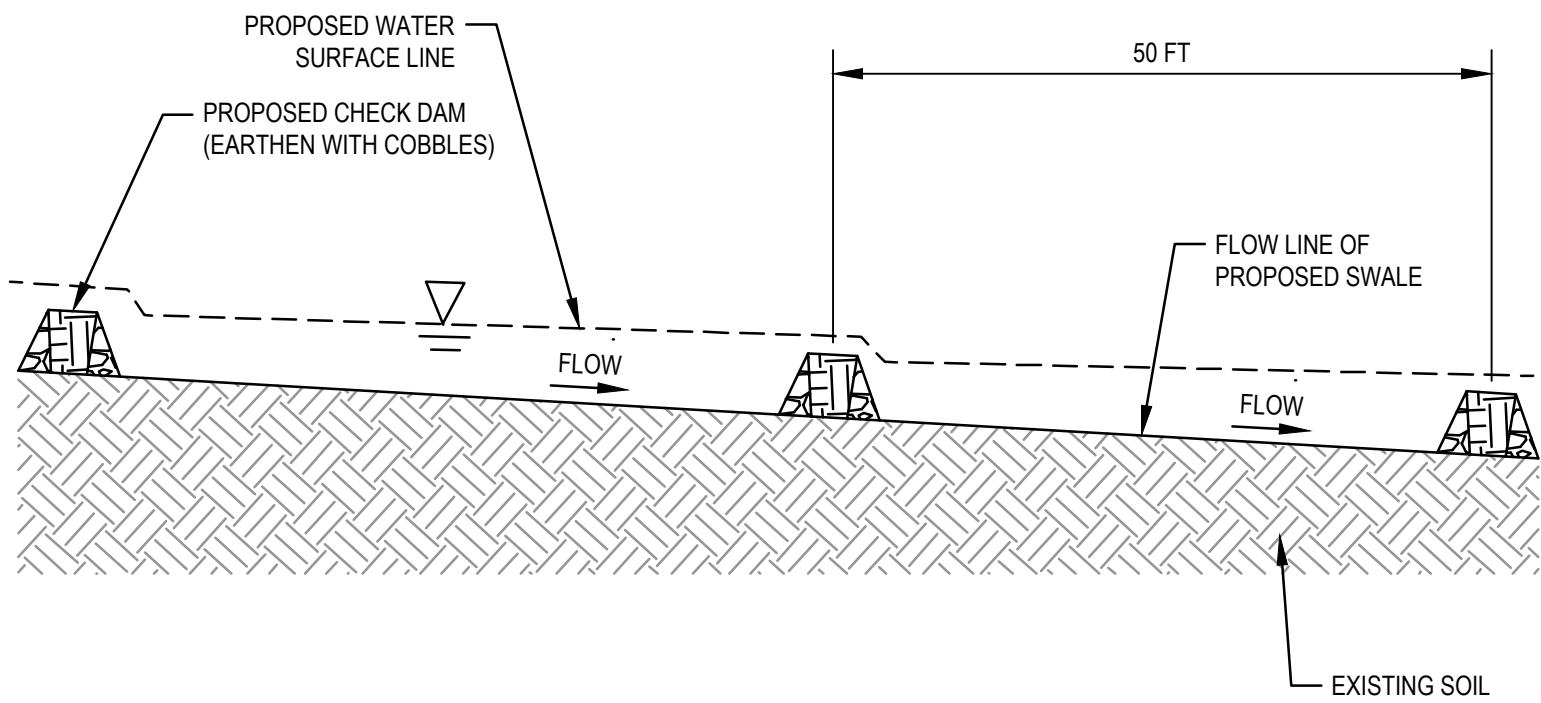
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Sheet

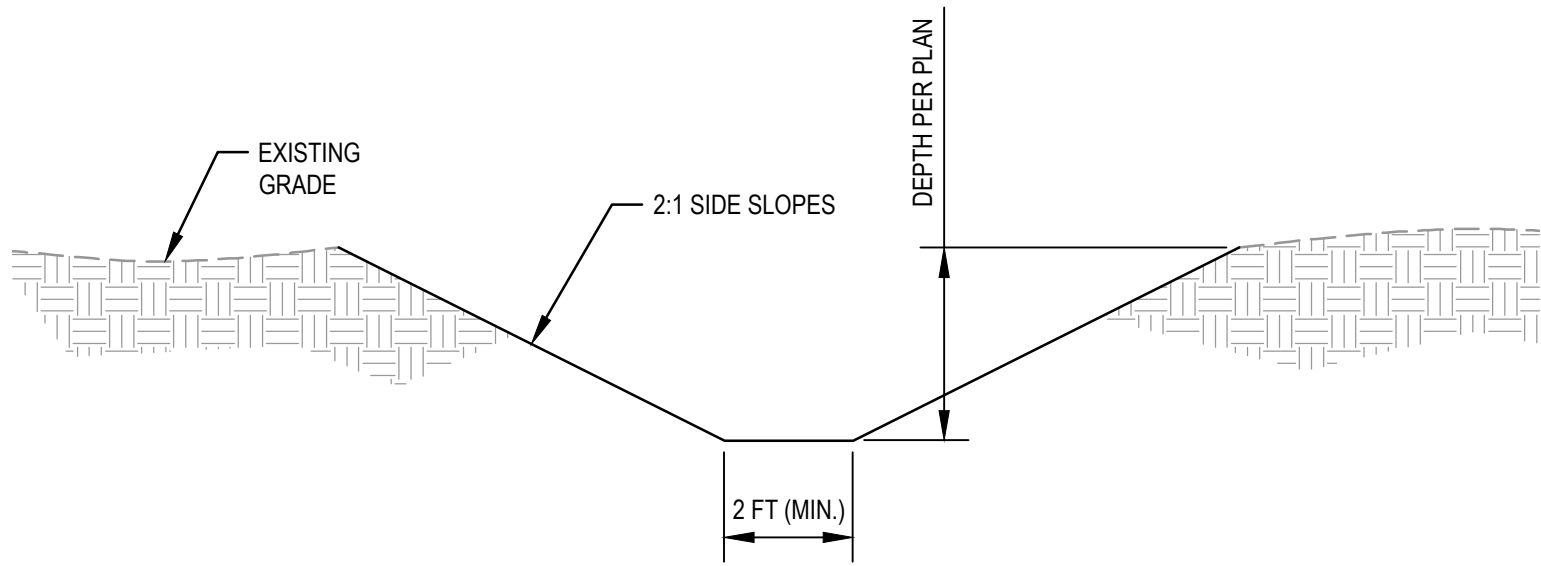
Plot Date: 20 September 2024 - 12:56 PM

Plotted By: Emma Vaic

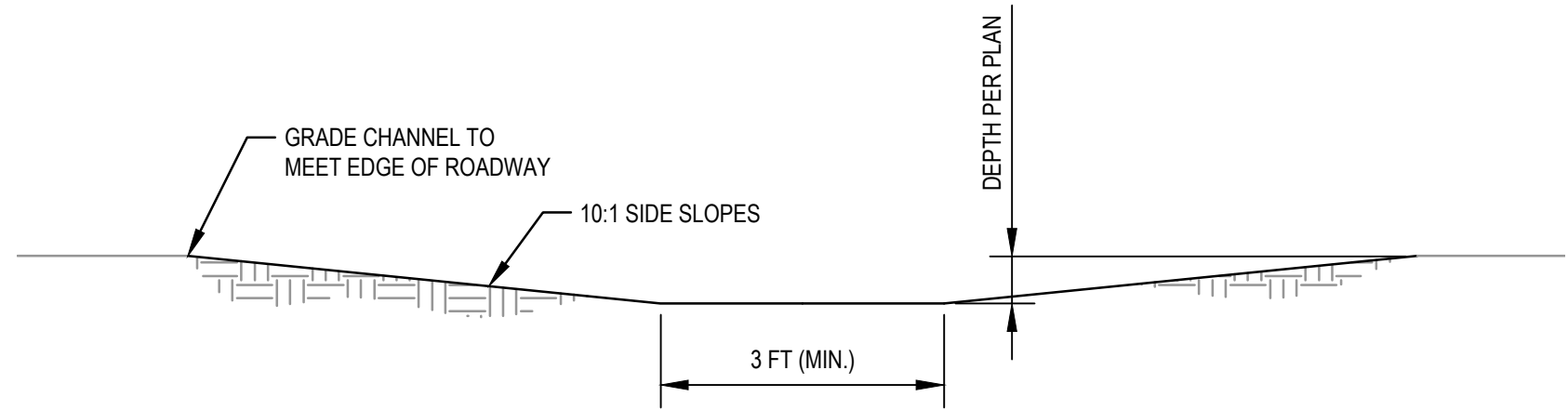
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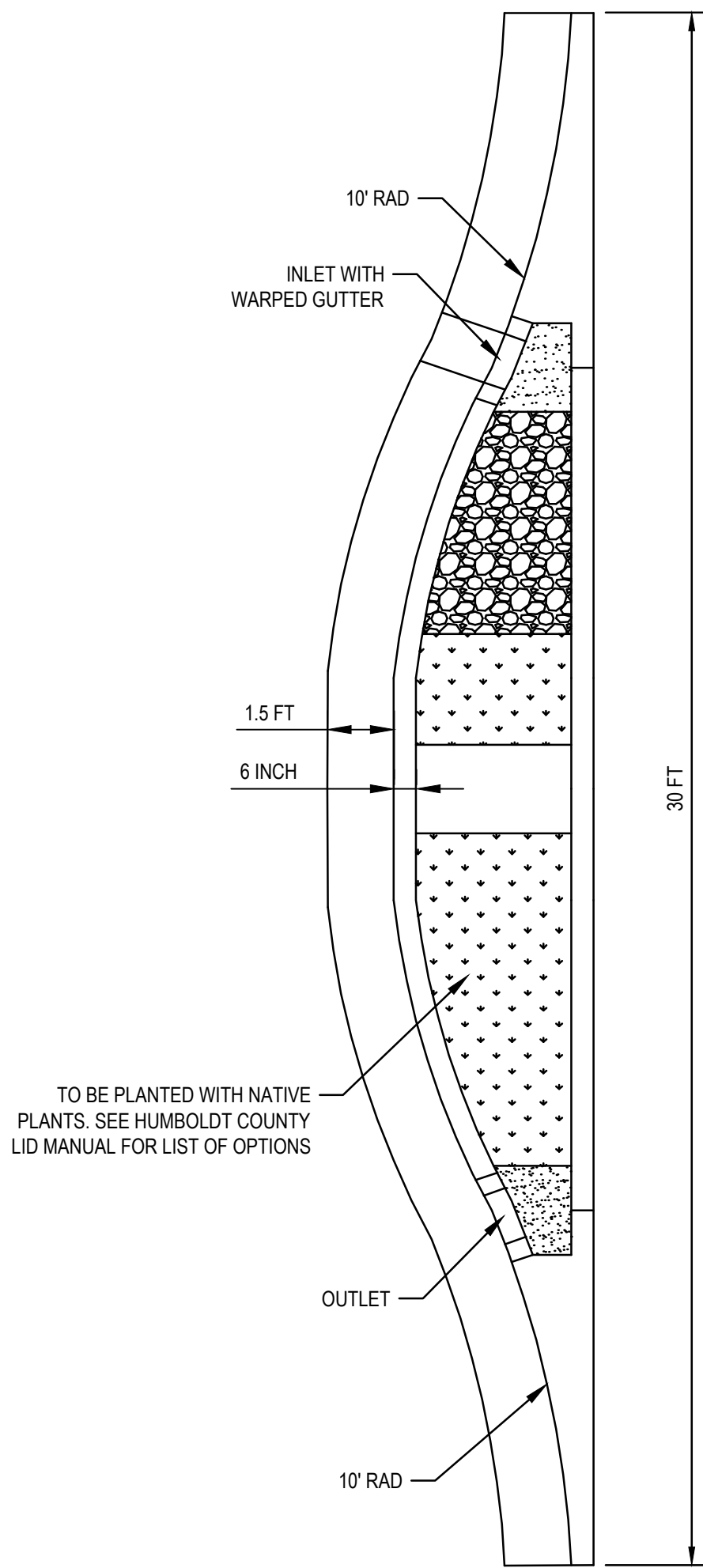
1 TYPICAL BIOSWALE WITH CHECK DAM PROFILE
NTS



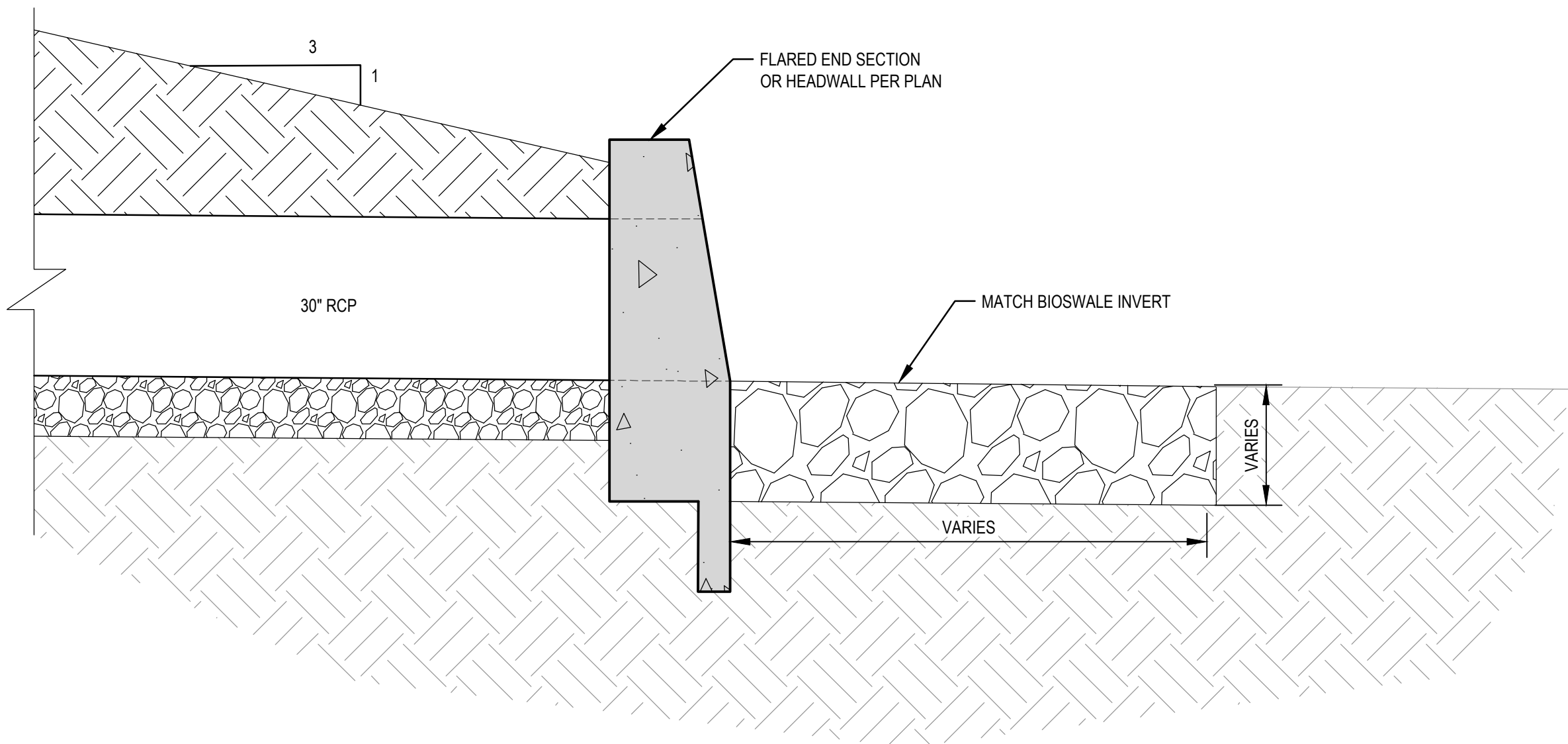
2 TYPICAL 5TH STREET BIOSWALE SECTION
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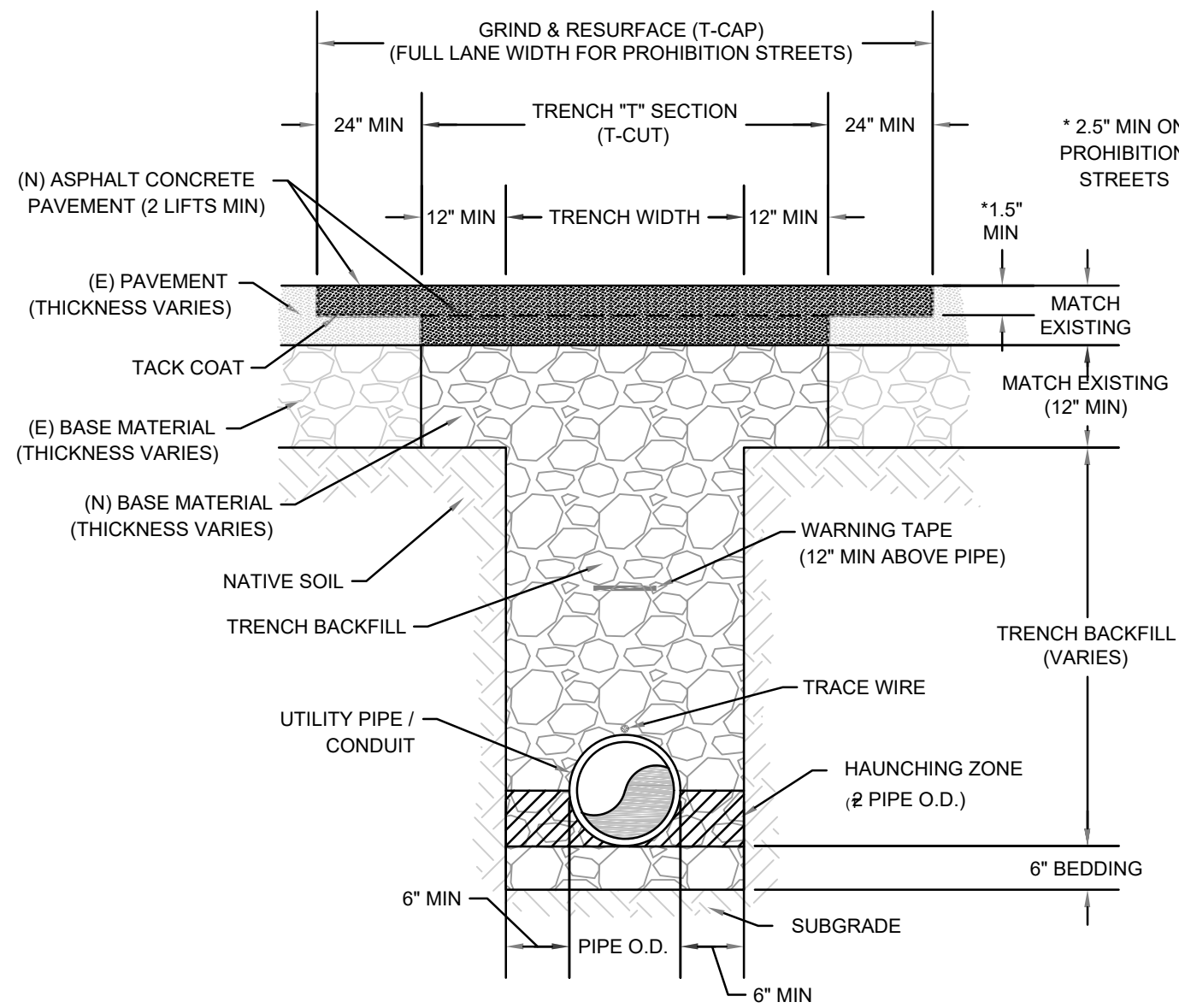
3 SHALLOW BIOSWALE SECTION
NTS



4 VEGETATED STORMWATER CURB EXTENTION
NTS



5 RIPRAP DETAIL
NTS



6 TYPICAL TRENCH
NTS

PRELIMINARY

No.	Issue	Checked		Approved	Date
Author	Drafting Check	BRETT VIVYAN	Project Manager	BRETT VIVYAN	
Designer	TAYLOR ALLEN	Design Check	BRETT VIVYAN	Project Director	JEREMY SVEHLA



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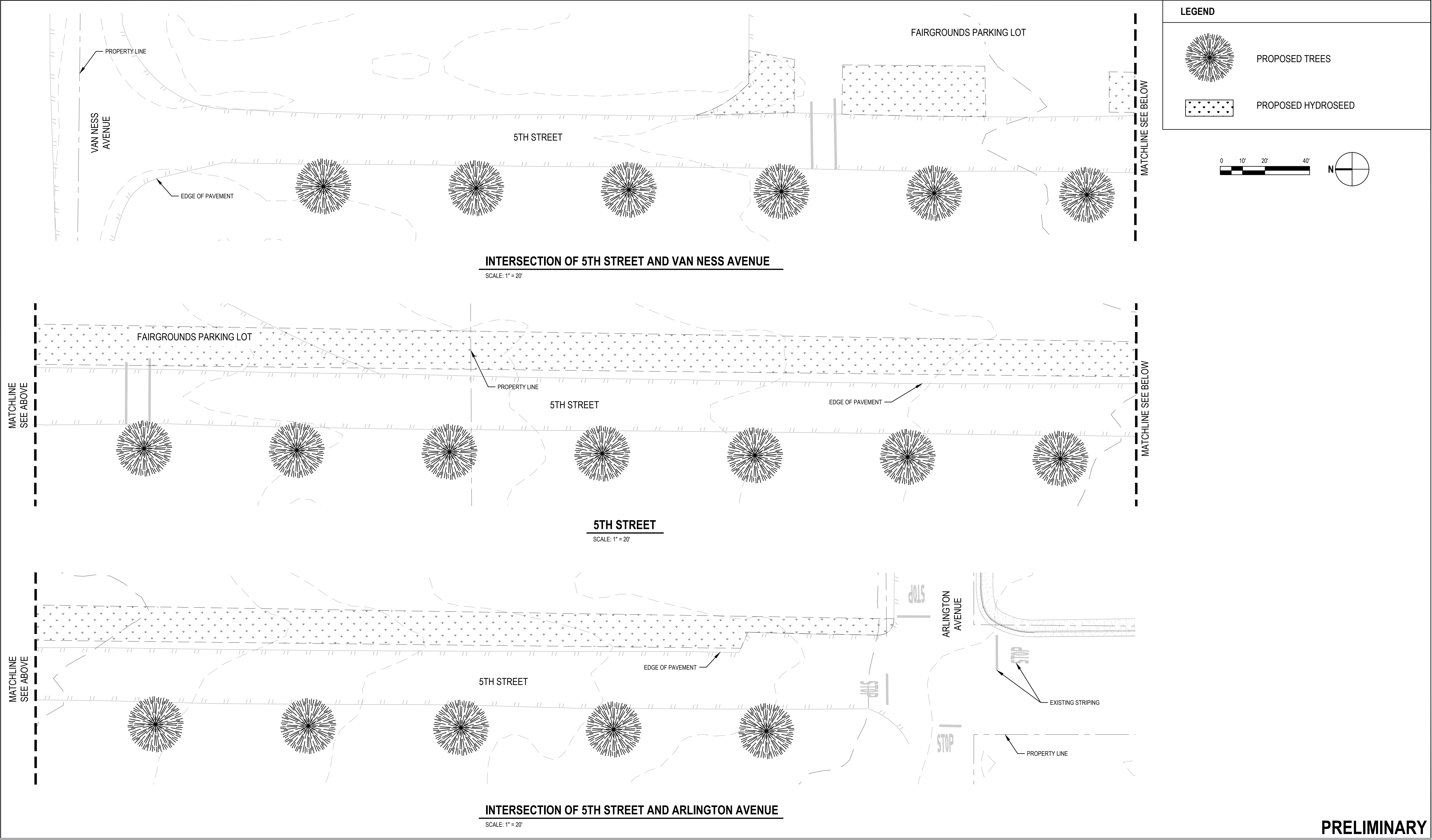


Client CITY OF FERNDALE
Project WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT






Project No. 12561178
Date 2024-09-12
Scale AS SHOWN

Title TYPICAL SECTIONS AND DETAILS

Sheet No. C-301
Sheet 12 of 13



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									Project WATER QUALITY AND DRAINAGE IMPROVEMENTS PROJECT				
No. Issue			Checked	Approved	Date	Project No.			Date	Scale	Sheet No.	Sheet	
Author		Drafting Check	BRETT VIVYAN	Project Manager	BRETT VIVYAN	12561178	2024-09-12		AS SHOWN	L-101	13 of 13		
Designer TAYLOR ALLEN		Design Check	BRETT VIVYAN	Project Director	JEREMY SVEHLA								