ENGINEERING PLANS - BID SET

FOR MANZANITA CLASSIC STREET

PREPARED FOR:

CITY OF MANZANITA, OREGON

167 SOUTH 5TH STREET MANZANITA, OREGON 97130 CONTACT: LEILA AMAN

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PROJECT LOCATION



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CITY OF MANZANITA - APPROVAL					
DATE:					
PERMIT NUMBER:					
APPLICATION NUMBER:					
PRINTED NAME:					
SIGNATURE:					

	CONSULTANT CITY ENGINEER
BY	DATE
	FIRE DEPARTMENT CHIEF
BY	DATE
	WATER AND SEWER SUPERINTENDENT
BY	DATE
A	PPROVED FOR CONSTRUCTION
	DATE EXPIRES

<u>R</u>	REVISIONS:							

ENGINEERING

FOR

ISSUED

PREPARED BY:



Ridgefield, WA Duluth + Minneapolis, MN

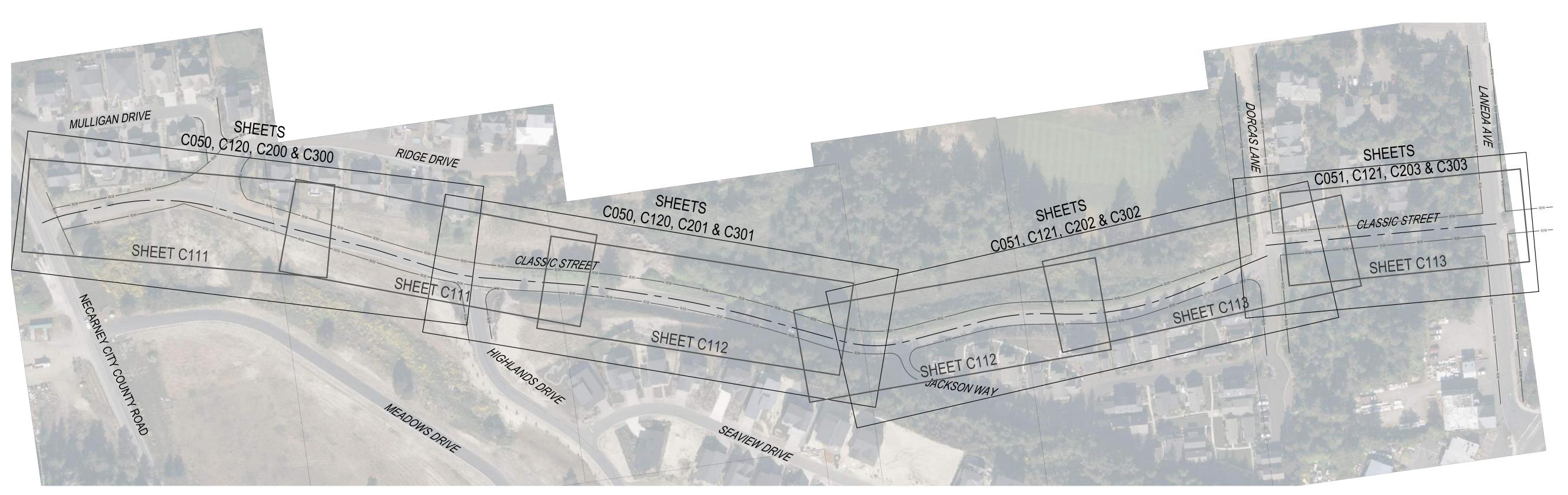
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Issue Date: 4/11/2025

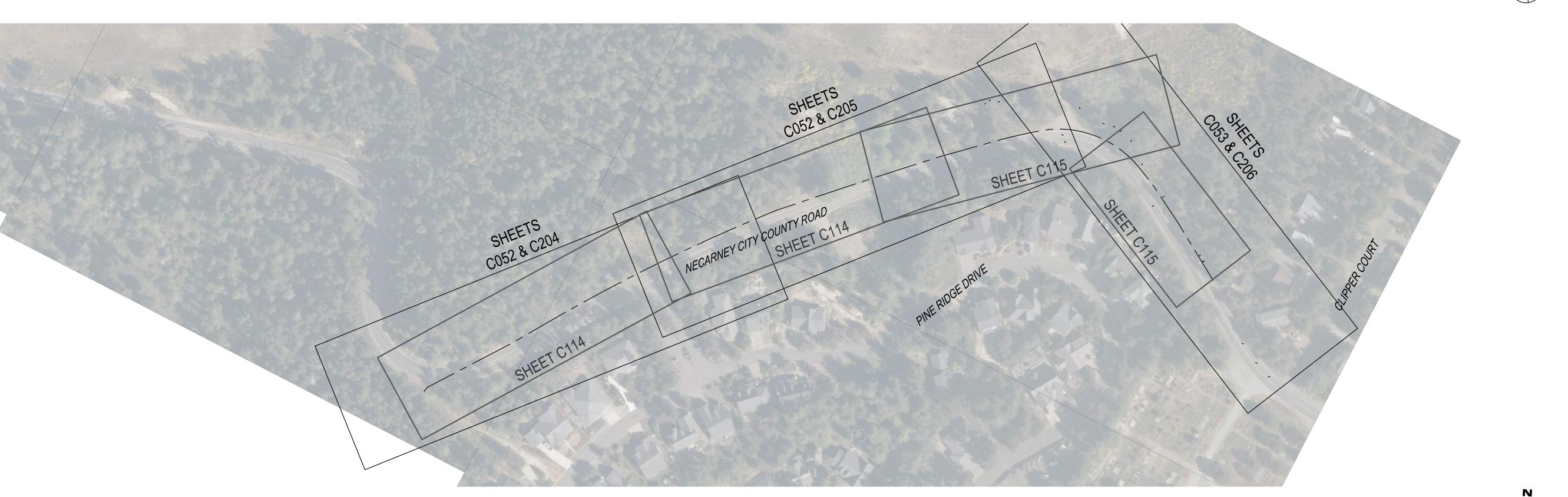
PROJECT NUMBER: 24231



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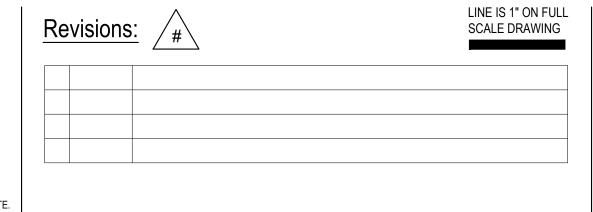


WORK AREA PLAN - CLASSIC STREET



WORK AREA PLAN - NECARNEY WATERMAIN







Ridgefield, WA Duluth + Minneapolis, MN www.windsorengineers.com





MANZANITA CLASSIC STREET

167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025 Project Manager MRL
Drawn by DTT
Checked by TWT

WORK AREAS

G002

PARCEL NO.(S): CLASSIC STREET PUBLIC ROADWAY FROM NECARNEY CITY ROAD TO LANEDA AVE. 1,600' ALONG NECARNEY CITY ROAD STARTING 400' WEST OF CLIPPER CT. CONTINUING (3N1029D000102 CLOSEST CITY PROPERTY TO THE PROJECT)

SITE ADDRESS: CLASSIC STREET PUBLIC ROADWAY FROM NECARNEY CITY ROAD TO LANEDA AVE 1,600' ALONG NECARNEY CITY ROAD STARTING 400' WEST OF CLIPPER CT. CONTINUING

QUARTER SECTION: SE 1/4 OF S29 T3N R10W NW 1/4 OF SW 1/4 OF S28 T3N R10W

COUNTY: TILLAMOOK

CRITICAL AREAS:

THE PROJECT IS PARTIALLY LOCATED WITHIN THE GEOLOGIC HAZARD AREAS AS INDICATED BY GEOTECHNICAL REPORT. (TSUNAMI)

THE PROJECT IN NOT LOCATED WITHIN A FLOOD HAZARD SITE AS INDICATED BY TILLAMOOK COUNTY WEB

CONTRACTOR MAY ENCOUNTER HIGH GROUND-WATER TABLE AT SITE LOCATION. HIGH GROUND-WATER IN COMBINATION WITH BEACH SAND SUBGRADE MAY CAUSE A "QUICK" EFFECT, WHICH MAY RESULT IN THE DESTABILIZATION OF ADJACENT SOILS, UTILITIES, AND STRUCTURES. CONTRACTOR SHALL PLAN FOR AND COORDINATE ANY AND ALL DEWATERING TECHNIQUES NECESSARY AND/OR REQUIRED TO COMPLETE PROJECT AS SPECIFIED IN THE TECHNICAL SPECIFICATIONS. NOTIFY THE CITY 48 HOUR PRIOR TO ANY DEWATERING ACTIVITIES FOR ABNORMAL GROUND WATER ENCOUNTERED OTHERWISE THE CONTRACTOR SHALL BEAR ALL DEWATERING COSTS.

CONTACT INFORMATION

APPLICANT / PROPERTY OWNER CITY OF MANZANITA, OREGON 167 SOUTH 5TH STREET, MANZANITA, OREGON 97130 CONTACT: LEILA AMAN (503) 368-5343 LAMAN@CI.MANZANITA.OR.US

REPRESENTATIVE / CONTACT WINDSOR ENGINEERS, LLC 27300 NE 10TH AVE., RIDGEFIELD, WA 68642 CONTACT: TRAVIS TORMANEN (360) 610-4931 TTORMANEN@WINDSORENGINEERS.COM

ONION PEAK DESIGN 44475 CAROL DRIVE, NEHALEM, OR 97131 CONTACT: ERICK WHITE, PLS (360) 553-5992 ERICK.OPD@GMAIL.COM

STORMWATER/EROSION CONTROL NORTH COAST CIVIL DESIGN, LLC CONTACT: KYLE AYERS 35270 TOHL AVE, NEHALEM, OR 97131 PHONE: (503) 812-3732 OFFICE: (503) 368-3732

PALI CONSULTING 4891 WILLAMETTE FALLS DRIVE, SUITE 1 WEST LINN, OR 97068 CONTACT: TIM BLACKWOOD (503) 502-0820 TIM@PALI-CONSULTING.COM

LANDSCAPE ARCHITECT MACKAY SPOSITO 18405 SE MILL PLAIN BLVD., SUITE 100 VANCOUVER, WA 98683 CONTACT: JUANITA ROGERS (360) 823-1331

JROGERS@MACKAYSPOSITO.COM

COMMUNITY CONTACT INFORMATION

CITY OF MANZANITA: (503) 812-2514

MANZANITA POLICE: (503) 815-1911

NEHALEM BAY FIRE & RESCUE:

(503) 368-7590

WATER, STORM, ROAD (MANZANITA PUBLIC WORKS) (503) 457-6319

SEWER (NEHALEM BAY WASTEWATER AGENCY): (503) 368-5347

GARBAGE & RECYCLING (RECOLOGY): (503) 368-7764

OREGON UTILITY NOTIFICATION CENTER:

(503) 232-1897 / 1-800-332-2344 / 811

ELECTRIC (TILLAMOOK PEOPLE'S UTILITY DISTRICT):

GAS (NORTHWEST NATURAL GAS): 1-800-422-4012

CABLE TV (CHARTER COMMUNICATIONS): (541) 921-1859

TELEPHONE (RTI NEHALEM TELECOM): (503) 984-2506

GENERAL NOTES

GENERAL REQUIREMENTS

COMPLIANCE: FOLLOW ALL APPLICABLE FEDERAL, STATE, AND LOCAL LAWS, ORDINANCES, AND RULES.

STANDARDS: CITY OF MANZANITA, OHA, ODOT, AWWA, AND UNIFORM PLUMBING CODE. PERMITS: OBTAIN ALL NECESSARY PERMITS, INCLUDING PUBLIC RIGHT-OF-WAY WORK PERMITS FROM

THE CITY, COUNTY, NPDES, OHS, AND ODOT

4. PLANS: KEEP APPROVED PLANS ON-SITE DURING CONSTRUCTION.

CHANGES: OBTAIN OWNER/ENGINEER APPROVAL FOR ANY DESIGN OR CONSTRUCTION CHANGES. INSPECTIONS: COORDINATE CONSTRUCTION SCHEDULE AND ACTIVES WITH THE CITY, CONTACT PUBLIC

WORKS AT (503) 368-5347 DOCUMENTATION: MAINTAIN DETAILED RECORDS OF ALL ACTIVITIES, INCLUDING AS-BUILT DRAWINGS.

SITE PREPARATION AND DEMOLITION

1. UTILITY LOCATES: CALL 811 TWO BUSINESS DAYS BEFORE CONSTRUCTION. VERIFY LOCATIONS AND

EXISTING UTILITIES: PROTECT ALL EXISTING UTILITIES AND STRUCTURES. REPAIR ANY DAMAGE AT CONTRACTOR'S EXPENSE.

DEMOLITION: 3.A. FLUSH AND PLUG SEWER MAINS AND WATER LINES WITH CONCRETE EXTENDING 3X PIPE DIAMETER INWARD.

3.B. FILL SPACE BETWEEN PLUGS WITH SAND OR FLOWABLE CEMENT SLURRY.

BACKFILL VOIDS WITH GRANULAR MATERIAL COMPACTED TO 95% MAX DRY DENSITY. 3.D. DISPOSE OF ALL DEMOLITION MATERIALS PROPERLY.

4. THE CONTRACTOR SHALL NOTIFY THE COUNTY SURVEYOR PRIOR TO INTERFERING WITH OR PAVE OVER

ANY ESTABLISHED PUBLIC LAND SURVEY CORNER OR ITS ACCESSORIES, WITHIN THE PROJECT LIMITS. 5. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING ALL SURVEY MONUMENTS DISTURBED OR DESTROYED DURING CONSTRUCTION. REPLACING THE SURVEY MONUMENTS SHALL BE DONE BY A REGISTERED LAND SURVEYOR AT THE EXPENSE OF THE CONTRACTOR.

EROSION CONTROL AND ENVIRONMENTAL PROTECTION

SEDIMENT CONTROL: INSTALL BARRIERS ALONG SITE PERIMETER AND AROUND STOCKPILES. SLOPE TREATMENT: ROUGHEN SURFACES BEFORE PLANTING. USE ADDITIONAL MEASURES FOR STEEP SLOPES.

SEEDING: USE OREGON COAST RANGE ECO-REGION SEED MIX AT 11.4 LBS/ACRE UNLESS OTHERWISE APPROVED.

MULCHING: APPLY WEED-FREE MULCH. USE TACKIFIER OR MECHANICAL ANCHORING ON STEEP SLOPES.

DUST CONTROL: IMPLEMENT AS NECESSARY. INLET PROTECTION: PROTECT ACTIVE STORMWATER INLETS WITH APPROVED MEASURES.

BUFFER: MAINTAIN 200 FT VEGETATED BUFFER. DEWATERING: DEWATER TO AT LEAST 1 FOOT BELOW LOWEST EXCAVATION. SUBMIT PLAN 48 HOURS PRIOR TO ANY DEWATERING WORK.

9. RESTORATION

9.A. SURFACE RESTORATION:

9.B. RESTORE ALL SURFACES TO PRE-CONSTRUCTION CONDITION OR BETTER.

9.C. RESURFACE ROAD/DRIVEWAY AT PROJECT END. 9.D. SEED AND MULCH ANY DISTURBED TURF AREAS.

9.E. LANDSCAPING: RESTORE ALL DISTURBED AREAS TO ORIGINAL CONDITION.

CULTURAL RESOURCES: NOTIFY OREGON HERITAGE STATE HISTORIC PRESERVATION OFFICE IF DISCOVERED.

TRAFFIC CONTROL AND SITE MANAGEMENT

TRAFFIC CONTROL: IMPLEMENT APPROVED PLAN, INCLUDING SIGNAGE, DETOURS, AND FLAGGING. WORK AREA:

2.A. KEEP EXCAVATION WITHIN ROAD/DRIVEWAY GRAVEL AREA.

2.B. BACKFILL ALL EXCAVATED MATERIAL AT DAY'S END; REOPEN TRENCH AS NEEDED. 3. SITE CLEANLINESS: KEEP ROADS, SIDEWALKS, AND TRAILS CLEAR OF CONSTRUCTION

AMERICANS WITH DISABILITIES ACT (ADA) NOTES

1. CONTRACTORS SHALL EXERCISE APPROPRIATE CARE AND PRECISION IN CONSTRUCTION OF ADA ACCESSIBLE COMPONENTS ON THE PROJECT, THE ADA COMPONENTS MUST COMPLY WITH ALL LOCAL, STATE, AND FEDERAL ACCESSIBILITY RULES, CODES, AND REGULATIONS

2. FINISHED SURFACES ALONG THE ACCESSIBLE PATH OF TRAVEL FROM PARKING STALLS, PUBLIC TRANSPORTATION, AND PEDESTRIAN ACCESS WAYS TO THE POINT(S) OF ACCESSIBLE BUILDING INGRESS AND 25. THE CONTRACTOR SHALL RESTORE PAVEMENT AND LANDSCAPING DISTURBED BY THE CONSTRUCTION EGRESS SHALL COMPLY WITH ADA CODE REQUIREMENTS.

3. PARKING SPACE AND AISLE SLOPE SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN ANY

4. CURB RAMP SLOPE SHALL NOT EXCEED 1:12 (8.3%) AND RAMP LENGTH IS LIMITED TO 15 FEET.

5. LANDINGS SHALL BE PROVIDED AT EACH END OF RAMPS, SHALL HAVE POSITIVE DRAINAGE, AND SHALL NOT EXCEED 1:48 (1/4"PER FOOT OR NOMINALLY 2.0%) IN ANY DIRECTION.

6. PATH OF TRAVEL ALONG ACCESSIBLE ROUTE SHALL PROVIDE A MINIMUM OF 36 INCH UNOBSTRUCTED WIDTH OF TRAVEL. SLOPE SHALL BE NO GREATER THAN 1:20 (5.0% OR 5/8" PER FOOT) IN THE DIRECTION OF TRAVEL, AND SHALL NOT EXCEED 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) IN CROSS SLOPE. WHERE PATH OF TRAVEL BE GREATER THAN 1:20 (5.0%), AN ACCESSIBLE RAMP WITH A MAXIMUM SLOPE OF 1:12 (8.3%) FOR A MAXIMUM DISTANCE OF 30 FEET SHALL BE PROVIDED INCLUDING HANDRAILS. THE RAMP SHALL HAVE ACCESSIBLE HAND RAILS AND LANDINGS ON EACH END WITH A SLOPE IN ANY DIRECTION NOT EXCEEDING 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%).

7. DOORWAYS SHALL HAVE A LANDING AREA ON THE EXTERIOR SIDE OF THE DOOR THAT IS SLOPED NO MORE THAN 1:48 (1/4" PER FOOT OR NOMINALLY 2.0%) FOR POSITIVE DRAINAGE. THIS LANDING AREA SHALL BE NO LESS THAN 60 INCHES (5 FEET) LONG, EXCEPT HERE OTHERWISE PERMITTED BY ACCESSIBILITY STANDARDS FOR ALTERNATIVE DOORWAY OPENING CONDITIONS AND APPROVED BY THE OWNER'S REPRESENTATIVE.

8. WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN A STREET OR HIGHWAY RIGHT-OF-WAY, THE GRADE OF THE PEDESTRIAN ACCESS ROUTE IS PERMITTED TO EQUAL THE GENERAL GRADE ESTABLISHED FOR THE ADJACENT STREET OR HIGHWAY, EXCEPT THAT WHERE PEDESTRIAN ACCESS ROUTES ARE CONTAINED WITHIN PEDESTRIAN STREET CROSSINGS A MAXIMUM GRADE OF 5 PERCENT IS REQUIRED.

GENERAL PLAN NOTES

 CONTRACTOR TO VERIFY ALL UTILITY LOCATIONS AND DEPTHS PRIOR TO CONSTRUCTION. A MINIMUM OF TWO FULL BUSINESS DAYS PRIOR TO BEGINNING CONSTRUCTION, THE CONTRACTOR SHALL CALL 811

(UTILITY NOTIFICATION CENTER) FOR LOCATION MARK-UP OF EXISTING UTILITIES 2. ALL CONSTRUCTION, MATERIALS, AND WORKMANSHIP SHALL CONFORM TO THE LATEST STANDARDS AND

STANDARDS FOLLOW OREGON ADMINISTRATIVE RULES FOR PUBLIC UTILITY SYSTEMS. PRACTICES OF TILLAMOOK COUNTY, THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR USE ONLY NEW MATERIALS; NO REBUILT OR USED MATERIALS ALLOWED. CONSTRUCTION" PREPARED BY ODOT, AND THESE DOCUMENTS.

3. IN CASE OF A CONFLICT BETWEEN THE REGULATORY STANDARDS OR SPECIFICATIONS, THE MORE STRINGENT REQUIREMENT WILL PREVAIL

4. ANY CHANGES TO THE DESIGN AND/OR CONSTRUCTION SHALL BE APPROVED BY THE OWNER OR

APPROVAL OF THESE PLANS DOES NOT CONSTITUTE AN APPROVAL OF ANY OTHER CONSTRUCTION NOT PROTECT ALL EXISTING UTILITIES DURING CONSTRUCTION. SPECIFICALLY SHOWN ON THE PLANS. PLANS FOR STRUCTURES SUCH AS BRIDGES, BUILDINGS, TANKS REPAIR ANY DAMAGE TO EXISTING UTILITIES AT CONTRACTOR'S EXPENSE. VAULTS, ROCKERIES, AND RETAINING WALLS MAY REQUIRE A SEPARATE REVIEW AND APPROVAL BY THE BUILDING DEPARTMENT PRIOR TO CONSTRUCTION.

6. A COPY OF THESE APPROVED PLANS SHALL BE ON THE JOB SITE WHENEVER CONSTRUCTION IS IN PROGRESS.

7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN ALL CONSTRUCTION/TEMPORARY EASEMENTS AND PERMITS NECESSARY TO PERFORM THE WORK.

THE CONTRACTOR IS RESPONSIBLE FOR ALL CONSTRUCTION STAKING

9. PUBLIC AND PRIVATE DRAINAGE WAYS SHALL BE PROTECTED FROM POLLUTION. NO MATERIAL IS TO BE DISCHARGED TO OR DEPOSITED IN STORMWATER SYSTEMS THAT MAY RESULT IN VIOLATION OF STATE OR FEDERAL WATER QUALITY STANDARDS.

10. ALL CONSTRUCTION WITHIN THE PUBLIC RIGHT-OF-WAY SHALL HAVE AN APPROVED PUBLIC RIGHT-OF-WAY WORK PERMIT/S PRIOR TO ANY CONSTRUCTION ACTIVITY WITHIN THE RIGHT-OF-WAY.

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SAFEGUARDS, SAFETY DEVICES, PROTECTIVE EQUIPMENT, FLAGGERS, AND ANY OTHER NEEDED ACTIONS TO PROTECT THE LIFE, HEALTH. AND SAFETY OF THE PUBLIC, AND TO PROTECT PROPERTY IN CONNECTION WITH THE PERFORMANCE OF WORK COVERED BY THE CONTRACTOR. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST ADOPTED EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) PUBLISHED BY THE U.S. DEPARTMENT OF TRANSPORTATION. TWO-WAY TRAFFIC MUST BE MAINTAINED AT ALL TIMES ON THE ADJACENT PUBLIC STREETS.

12. ANY PUBLIC OR PRIVATE CURB, GUTTER, SIDEWALK, OR ASPHALT DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO CITY/COUNTY STANDARDS AND PRACTICES.

13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE INTEGRITY OF ADJACENT UTILITIES WHICH MAY INCLUDE, BUT ARE NOT LIMITED TO, WATER, SANITARY SEWER, STORMWATER, POWER, TELEPHONE, CABLE TV, GAS, IRRIGATION, AND STREET LIGHTING. THE CONTRACTOR SHALL NOTIFY RESIDENTS AND BUSINESSES 48 HOURS IN ADVANCE OF ANY WORK AFFECTING ACCESS OR SERVICE AND SHALL MINIMIZE INTERRUPTIONS TO DRIVEWAYS FOR RESIDENTS AND BUSINESSES ADJACENT TO

14. ALL LAWN AND VEGETATED AREAS DISTURBED WILL BE RESTORED TO ORIGINAL CONDITION. ANY DISTURBANCE OR DAMAGE TO OTHER PROPERTY ON ADJACENT PARCELS OR IN THE PUBLIC RIGHT OF WAY SHALL ALSO BE REPAIRED OR RESTORED TO ORIGINAL CONDITION.

15. ALL MATERIALS AND METHODS OF CONSTRUCTION AND INSTALLATION FOR WATER, SANITARY SEWER, AND STORM FACILITIES SHALL CONFORM TO THE CITY OF MANZANITA DESIGN GUIDELINES. CONSTRUCTION SHALL BE AS PER THE MOST CURRENT STANDARD DETAIL CONTAINED THEREIN.

16. THE TYPES, LOCATIONS, SIZES AND/OR DEPTHS OF EXISTING UNDERGROUND UTILITIES AND STRUCTURES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND WERE OBTAINED FROM SOURCES OF VARYING RELIABILITY. THE CONTRACTOR IS CAUTIONED THAT ONLY ACTUAL EXCAVATION WILL REVEAL THE TYPES, EXTENT, SIZES, LOCATIONS, AND DEPTHS OF UTILITIES. A REASONABLE EFFORT HAS BEEN MADE TO LOCATE AND DELINEATE ALL KNOWN UNDERGROUND UTILITIES. THE CONTRACTOR SHALL VERIFY THE LOCATION OF AND PROVIDE PROTECTION FOR ALL UTILITIES AND STRUCTURES. OVERHEAD

17. EXISTING UTILITIES DAMAGED BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR OR BY THE UTILITY AT THE CONTRACTORS EXPENSE.

18. WHERE THE CONTRACTOR MUST RELOCATE WATER AND GAS UTILITIES, SHUTDOWN SHALL ONLY BE ACCOMPLISHED BY THE CITY OR UTILITY PURVEYOR. 19. ALL OPEN TRENCHES THAT IMPACT PUBLIC ACCESS OR OTHER PROJECT WORK ACCESS OUTSIDE OF

THIS PROJECTS SITE, MUST BE STEEL PLATED OR BACKFILLED AND/OR PAVED WITH AT LEAST 2" OF COLD MIX TO ADJACENT EXISTING GRADE AT THE END OF EACH WORKDAY 20. NOTIFY ADJACENT RESIDENCES AT LEAST 15 DAYS PRIOR TO COMMENCING WORK ADJACENT TO THEIR

21. SAWCUT ALL PAVEMENT JOINT LINES. WHERE THERE IS A PREVIOUS PAVING EDGE OR CRACK WITHIN 5'

OF THE SAWCUT EDGE, REMOVE THE PAVEMENT TO THE PREVIOUS PAVING EDGE. 22. THE CONTRACTOR SHALL COMPLY WITH OREGON REQUIREMENTS FOR TRENCH SAFETY. 23. THE CONTRACTOR SHALL REPLACE ALL SURVEY MONUMENTS THAT ARE DESTROYED BY THE

24. ALL WATER PIPING SHALL BE CONSTRUCTED WITH 3' MINIMUM COVER, 1' VERTICAL SEPARATION BETWEEN UTILITIES, AND A MINIMUM OF 10' HORIZONTAL SEPARATION AND 18" ABOVE SEWER LINES, UNLESS OTHERWISE NOTED

TO THE PREVIOUSLY UNDISTURBED CONDITION.

26. CONTRACTOR TO DISPOSE OF TREES, SHRUBS, SOD AND OTHER DEBRIS IN A PROPER MANNER OF THE CONTRACTOR'S CHOOSING.

27. CONTRACTOR IS RESPONSIBLE FOR KEEPING ALL ROADS, SIDEWALK, AND TRAILS CLEAN AND CLEAR FROM CONSTRUCTION MATERIAL AND DEBRIS.

28. ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE QUALITY LEVEL C AND MUST BE VERIFIED HORIZONTALLY AND VERTICALLY PRIOR TO ANY CONSTRUCTION. EXISTING FEATURES, INCLUDING BURIED UTILITIES, ARE DEPICTED BASED ON RECORD MAPS AND SURVEYS PROVIDED BY OTHERS, AND WINDSOR ASSUMES NO LIABILITY FOR THEIR ACCURACY. THE CONTRACTOR IS RESPONSIBLE FOR POTHOLE EXISTING UTILITIES AT CONNECTION AND CROSSING LOCATIONS PRIOR TO ANY CONSTRUCTION ACTIVITY. THE CONTRACTOR SHALL CONTACT THE UTILITY COMPANIES' OWNER/AGENCY 24 HOURS BEFORE POTHOLING FOR MARKING TO VERIFY THE DEPTH, LOCATION, AND TYPE OF EXISTING UTILITIES. INFORM THE ENGINEER IMMEDIATELY IF EXISTING CONDITIONS DIFFER FROM THOSE SHOWN AND PROVIDED IN THE PLANS. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK IN THE AREA OF DISCREPANCIES UNTIL ALL SUCH DISCREPANCIES ARE RESOLVED. IF THE CONTRACTOR CHOOSES TO DO SO, IT IS UNDERSTOOD THAT THEY ARE PROCEEDING AT THEIR OWN RISK AND INCUR ALL COST, IF ANY, TO RESOLVE THE ISSUE TO THE SATISFACTION OF THE ENGINEER.

UTILITY INSTALLATION NOTES

(WATER, SEWER, STORM, GAS, AND FRANCHISE UTILITIES)

GENERAL REQUIREMENTS:

COMPLY WITH CITY OF MANZANITA, TILLAMOOK COUNTY, ODOT, AWWA, AND UNIFORM PLUMBING CODE

UTILITY LOCATES AND PROTECTION: CALL 811 TWO BUSINESS DAYS BEFORE CONSTRUCTION. EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE. VERIFY LOCATIONS AND DEPTHS OF ALL EXISTING UTILITIES BEFORE EXCAVATION. NOTIFY THE ENGINEER IMMEDIATELY IF EXISTING CONDITIONS VARY FROM THAT SHOWN.

MATERIALS: WATER MAINS: HDPE SDR 14. WATER SERVICES: CROSS-LINKED POLYETHYLENE (PEXA) PIPE SEWER AND STORM: AS SPECIFIED BY CITY STANDARDS. GAS: AS SPECIFIED BY GAS UTILITY PROVIDER.

DRY UTILITIES: AS SPECIFIED BY RESPECTIVE UTILITY PROVIDERS.

MINIMUM COVER: 36" FROM FINISH GRADE TO TOP OF WATER PIPE (48" BELOW HIGHWAY, 42" BELOW SHOULDER IN ODOT RIGHT-OF-WAY) BEDDING: 6" MINIMUM COMPACTED GRANULAR MATERIAL BENEATH PIPE. INITIAL BACKFILL: GRANULAR MATERIAL 12" ABOVE PIPE CROWN FINAL BACKFILL: SUITABLE MATERIAL COMPACTED IN LAYERS. MAINTAIN REQUIRED SEPARATIONS BETWEEN DIFFERENT UTILITY TYPES.

TRENCHING AND BACKFILLING: KEEP EXCAVATION WITHIN ROAD/DRIVEWAY GRAVEL AREA WHEN POSSIBLE BACKFILL ALL EXCAVATED MATERIAL AT DAY'S END; REOPEN TRENCH AS NEEDED.

COMPACT BACKFILL TO 95% MAXIMUM DRY DENSITY IN TRAFFIC AREAS.

VALVES, HYDRANTS, AND APPURTENANCES: INSTALL PER CITY STANDARDS AND ENSURE ACCESSIBILITY. USE CITY-APPROVED BRANDS AND MODELS FOR WATER SYSTEM COMPONENTS. MAINTAIN REQUIRED CLEARANCES AROUND HYDRANTS AND OTHER APPURTENANCES. INSTALL APPROPRIATE VALVES AND ACCESS POINTS FOR ALL UTILITY TYPES.

CONNECTIONS AND TAPPING: USE STAINLESS STEEL TAPPING SLEEVE FOR WATER MAIN TAPS 4" OR LARGER. FOLLOW CITY STANDARDS FOR BACKFLOW PREVENTION ON WATER SYSTEMS. COORDINATE SERVICE CONNECTIONS WITH RESPECTIVE UTILITY PROVIDERS.

TESTING AND DISINFECTION (WATER): PRESSURE TEST WATER MAINS AT MINIMUM 125 PSI FOR 1 HOUR (0 PSI ALLOWABLE LEAKAGE). DISINFECT WATER MAINS PER CITY AND OHA GUIDELINES.

TESTING (SEWER AND STORM):

CONDUCT APPROPRIATE LEAKAGE AND INFILTRATION TESTS AS SPECIFIED BY CITY STANDARDS.

TESTING (GAS AND DRY UTILITIES):

PERFORM TESTING AS REQUIRED BY RESPECTIVE UTILITY PROVIDERS AND REGULATIONS.

USE APPROPRIATE METHODS AND MATERIALS TO AVOID UTILITY DAMAGE DURING CROSSINGS

PROVIDE TEMPORARY SUPPORT FOR EXPOSED UTILITIES DURING EXCAVATION/BACKFILLING. 12. DECOMMISSIONING EXISTING LINES:

FLUSH AND PLUG ABANDONED MAINS WITH CONCRETE EXTENDING 3X PIPE DIAMETER INWARD.

FILL SPACE BETWEEN PLUGS WITH SAND OR FLOWABLE CEMENT SLURRY.

MAINTAIN DETAILED RECORDS OF ALL UTILITY INSTALLATION ACTIVITIES. PREPARE AS-BUILT DRAWINGS SHOWING FINAL LOCATIONS AND DEPTHS OF ALL INSTALLED UTILITIES.

14. COORDINATION:

15. SPECIAL CONSIDERATIONS:

ESPECIALLY GAS.

NOTIFY AND COORDINATE WITH ALL AFFECTED UTILITY COMPANIES BEFORE AND DURING WORK. SCHEDULE UTILITY SHUTDOWNS AND SERVICE INTERRUPTIONS WITH MINIMUM 48-HOUR NOTICE TO AFFECTED CUSTOMERS.

IMPLEMENT APPROPRIATE SAFETY MEASURES FOR WORKING WITH DIFFERENT UTILITY TYPES,

FOLLOW SPECIFIC REQUIREMENTS FOR EACH UTILITY TYPE AS PROVIDED BY CITY OR UTILITY OWNER.

ALL WATERMAIN INSTALLATION, DISINFECTION AND TESTING SHALL COMPLY WITH ODOT STANDARD SPECIFICATIONS, OREGON HEALTH AUTHORITY (OHA), UNIFORM PLUMBING CODE, AND CITY OF MANZANITA WATER DESIGN AND CONSTRUCTION STANDARDS.

1. OPERATION OF EXISTING VALVES SHALL BE PERFORMED ONLY BY PUBLIC WORKS WATER OPERATIONS

3.1. ALL DUCTILE IRON PIPES SHALL BE PUSH-ON, CEMENT-LINED INTERIOR COATING WITH THE

4. FIRE HYDRANT ASSEMBLIES SHALL CONFORM TO THE CITY OF MANZANITA'S ACCEPTED BRANDS AND

2. ALL MATERIALS AND WORKMANSHIP SHALL COMPLY WITH AWWA, CITY OF MANZANITA, AND THE UNIFORM

PLUMBING CODE AS APPLICABLE. ALL MATERIAL SHALL BE OF NEW MANUFACTURE. NO REBUILT OR USED

EXTERIOR COATED WITH ZINC. THE PIPE SHALL BE CLASS #52 WITH TYTON JOINTS. THE ZINC

CONFORMING TO ANSI A21.11. ALL JOINTS SHALL BE MECHANICALLY RESTRAINED EBAA IRON

5. ALL PIPES SHALL HAVE 36" MINIMUM COVER MEASURED FROM FINISH GRADE UNLESS SPECIFICALLY NOTED

FOR LESS COVER WITH MITIGATING MEASURES. ALL NEW PIPING TO BE MECHANICALLY RESTRAINED.

6. ALL BACKFILL IN THE RIGHT OF WAY OR OTHER TRAFFIC AREAS SHALL BE ¾"-0" COMPACTED CRUSHED

ROCK, COMPACTED TO 95 PERCENT OF MAXIMUM DENSITY AS OBTAINED BY AASTO T-99 COMPACTION

TEST. PIPE BEDDING SHALL BE PLACED TO FORM A CONTINUOUS AND UNIFORM BEARING SUPPORT FOR

THE PIPE AT EVERY POINT BETWEEN JOINTS; PIPE ZONE MATERIAL SHALL BE FIRST PLACED UP TO THE

DEPARTMENT OF HUMAN SERVICES (DHS, FORMERLY OREGON HEALTH DIVISION - RULES ACCESSED AT

WWW.OHD.HR.STATE.OR.US/DWP/RULES.CFM) REGARDING THE LOCATION AND SEPARATION OF WATER

7. WATER LINE CONSTRUCTION SHALL COMPLY WITH THE CITY'S STANDARD PRACTICES AND OREGON

8. UPON COMPLETION OF INSTALLATION OF THE WATER SYSTEM, ALL LINES SHALL BE FLUSHED AND

DISINFECTED IN CONFORMANCE WITH THE CITY'S STANDARD PRACTICES, DHS GUIDELINES AND THE

REQUIREMENTS OF THE OREGON DEPARTMENT OF ENVIRONMENTAL QUALITY. WATERLINES SHALL BE

ONE AND ONE HALF TIMES THE OPERATION PRESSURE. THE DURATION OF THE TEST SHALL BE 1 HOUR,

UNLESS OTHERWISE DIRECTED BY THE CITY INSPECTOR. ALLOWABLE LEAKAGE IS IN ACCORDANCE TO

9. ALL WATER SERVICE LATERALS ARE TO BE INSTALLED BY THE DEVELOPER IN ACCORDANCE WITH THE CITY

PORTIONS OF THE HYDRANT. THERE SHALL ALSO BE NO OBSTRUCTIONS DIRECTLY IN LINE WITH ANY OF

11. ALL WATERLINE TAPS 4" OR GREATER SHALL USE AN ALL STAINLESS STEEL TAPPING SLEEVE (JCM 432 OR

12. CROSS CONNECTION CONTROL AND BACKFLOW ASSEMBLIES SHALL BE AS PER CITY OF CANNON BEACH

STANDARDS. WHEN REQUIRED, BACKFLOW PREVENTION ASSEMBLIES FOR THE PROTECTION OF THE

ADMINISTRATIVE RULES CHAPTER 333-061-0070, UNIFORM PLUMBING CODE, AND CITY OF MANZANITA

PUBLIC WATER SYSTEM SHALL MEET THE REQUIREMENTS SET FORTH IN THE CURRENT OREGON

CODE. CONTACT THE CITY BACKFLOW SPECIALIST FOR MORE INFORMATION.

10. FIRE HYDRANTS SHALL BE LOCATED TO ALLOW A MINIMUM OF 36" CLEAR SPACE SURROUNDING ALL

PRESSURE TESTED FOLLOWING COMPLETION. THE MINIMUM TEST PRESSURE SHALL BE 150 PSI. FOR LINES

WORKING WITH OPERATION PRESSURES GREATER THAN 100 PSI, THE MINIMUM TEST PRESSURE SHALL BE

SPRING LINE OF THE PIPE AND MATERIAL UNIFORMLY COMPACTED BY HAND TO INSURE PROPER SUPPORT

COATED PIPE REQUIRES V-BIO ENHANCED POLYETHYLENE ENCASEMENT OF NOT LESS THAN 8 MIL

THICKNESS, PER THE CITY'S STANDARD PRACTICES. ALL FITTINGS SHALL BE MECHANICAL JOINTS

STANDARD DETAIL STATEMENT

WATER LINES

STAFF AS AUTHORIZED BY CITY.

MATERIALS WILL BE ALLOWED.

WITHIN THE PIPE HAUNCHES.

CITY STANDARDS (0 PSI).

APPROVED EQUAL).

LINES AND SANITARY SEWER LINES --

THE PORTS OF THE HYDRANT FOR A DISTANCE OF 6 FEET.

3. ALL MAINLINE PIPES SHALL BE HIGH-DENSITY POLYETHYLENE (HDPE).

WORKS OR EQUAL WITH USA OR CANADIAN PARTS.

ALL MATERIALS AND METHODS OF CONSTRUCTION AND INSTALLATION FOR WATER, SEWER, STORM WATER FACILITIES, AND EROSION CONTROL MEASURES, SHALL CONFORM TO "OREGON STANDARD SPECIFICATIONS FOR CONSTRUCTION" AND THESE CONTRACT DOCUMENTS. CONSTRUCTION SHALL BE AS PER THE MOST CURRENT STANDARD DETAIL CONTAINED

THEREIN.

PRIOR TO POT HOLING CONTACT THE CITY'S ENGINEER. VERIFY LOCATION AND DEPTHS OF EXISTING UTILITIES PRIOR TO CONSTRUCTION. IF THE ELEVATIONS OF THE UTILITIES INDICATE THAT A CONFLICT EXISTS SUBMIT THE RESULTS TO THE CITY'S ENGINEER.

Know what's **below.** Call before you dig. ALL 2 BUSINESS DAYS BEFORE YOU DIG. AUTION UTILITY INFORMATION IS APPROXIMATE ERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

LINE IS 1" ON FULL Revisions: SCALE DRAWING



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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET

MANZANITA, OREGON 97130 **ENGINEERING PLANS - BID SET**

Project No: 24231 Issue Date: 4/11/2025

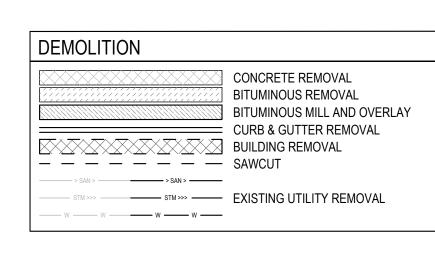
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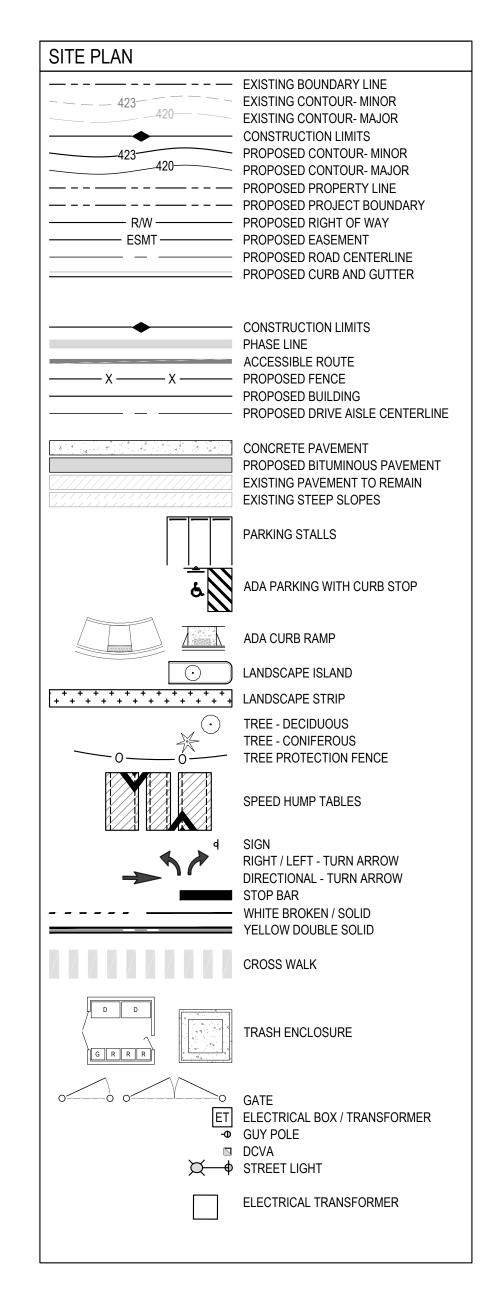
Project Manager MRL
Drawn by DTT

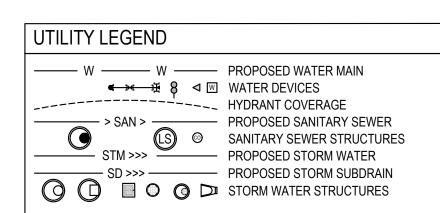
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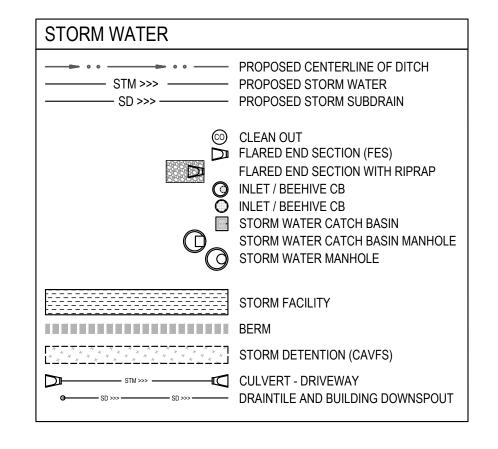
ENGINEERING FOR

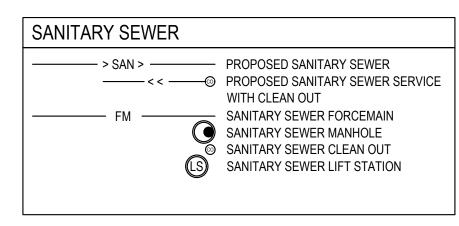
ISSUED











WATERMAIN	
w w	PROPOSED WATER MAIN
—— FS ——— FS ———— С	FIRE SERVICE WITH FDC
——	PROPOSED SERVICE WITH METER
< >< ⅓	FIRE HYDRANT
W	WATER METER
▷	THRUST BLOCK
	BLOW OFF VALVE ASSEMBLY
	METER PIT / VAULT

DRY UTILITIES		
*POWER AND GAS BY PUBLIC UTIL	ITY PROVIDER	
→	STREET LIGHTING	
— GAS — GAS —	GAS	G
OE	OVERHEAD ELECTRIC	Р
UE	UNDERGROUND ELECTRIC	Ε
OT	OVERHEAD TELEPHONE	T
UT	UNDERGROUND TELEPHONE	
F0	FIBER OPTIC	
CATV	CABLETELEVISION	С

FFE - FIRST FLOOR FINISH ELEVATION LLE - LOWER LEVEL FINISH ELEVATION WO - WALKOUT LO - LOOKOUT

SITE - ABBREVIATIONS

GRADING LEGEND / ABBREVIATIONS

FG: FINISH GRADE (DEFAULT- IF NOT LABELED)

TC: 391.49 FL: 390.99

BW: 380.99

GB: GRADE BREAK LP: LOW POINT HP: HIGH POINT FC: FLUSH CURB MG: MATCH GRADE FL: FLOWLINE SW: SIDEWALK

PV: PAVEMENT TC: TOP OF CURB

MANZANITA CLASSIC STREET

Project No: 24231 Issue Date: 4/11/2025

STRUCTURE REFERENCE LEGEND PIPE — CENTERLINE CENTERLINE CENTERLINE CALCULATION CALCULATION CALCULATION RIM ELEVATION — - RIM ELEVATION YARD INLET **MANHOLE**

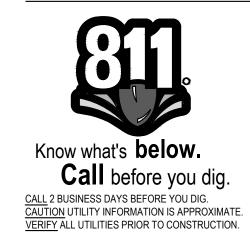
LEGENDS AND ABBREVIATIONS

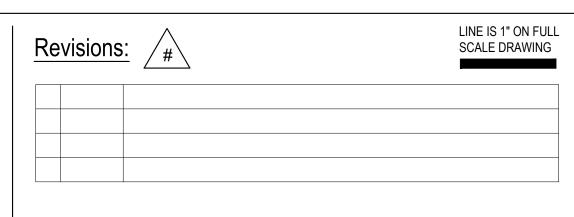
BID

PLANS

FOR ENGINEERING

ISSUED







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GENERAL ABBREVIATIONS

C CONCRETE CB CATCH BASIN

CL CENTERLINE

CNS COMPACTED NATIVE SOIL

CO CLEAN OUT CR CURB RETURN

D DIRT / DRAINAGE

ESXT EXISTING FG FINISHED GRADE

FH FIRE HYDRANT FL FLOW LINE

FM FORCE MAIN

G NATURAL GAS (LOW PRESSURE)

GB GRADE BREAK

HP HIGH POINT LF LINEAR FOOT

LP LOW POINT

MG NATURAL GAS (MEDIUM PRESSURE)

MG MATCH EXISTING GRADE MH MANHOLE

NS NATIVE SOIL

NTS NOT TO SCALE

PC POINT OF CURVATURE

POC POINT OF CONNECTION POS POINT OF SERVICE

PP POWER POLE

PT POINT OF TANGENCY

PV PAVEMENT

R RADIUS

ROW RIGHT OF WAY

S SLOPE / SANITARY

SAN SEWER SEWER

SDCO STORM DRAIN CLEANOUT SSMH SANITARY MANHOLE

STA STATION

STM STORM DRAIN

STMH STORM MANHOLE

TBD TO BE DETERMINED

TBL TO BE RELOCATED BY RESPECTIVE UTILITY

TBR TO BE REMOVED BY CONTRACTOR

TC TOP OF CURB

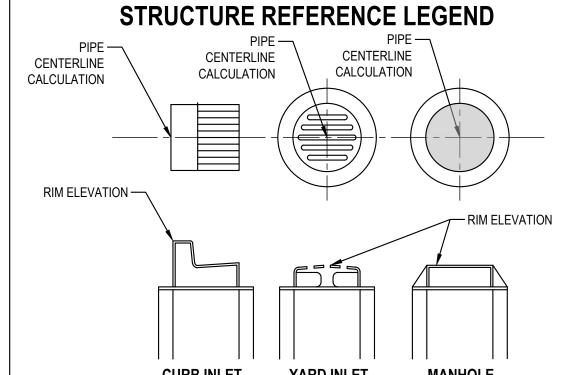
TOE TOE OF BANK TOP TOP OF BANK

TP TELEPHONE POLE

U UNDERGROUND

VIP VERIFY IN FIELD PRIOR TO CONSTRUCTION

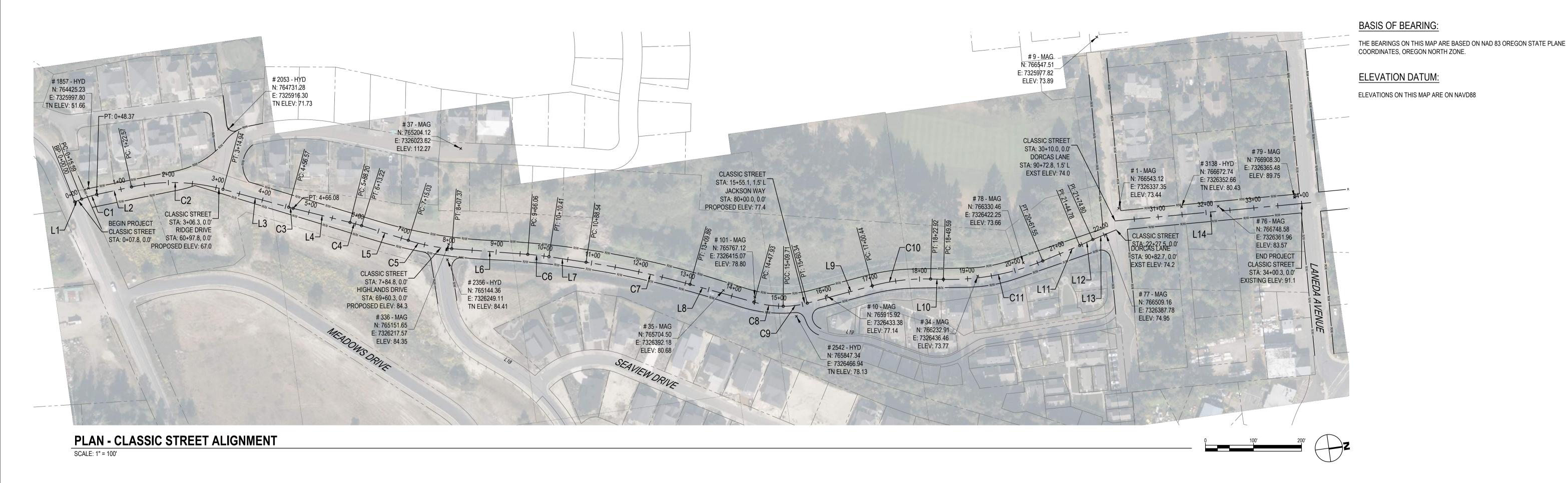
W WATER MAIN



167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project Manager MRL
Drawn by DTT
Checked by TWT

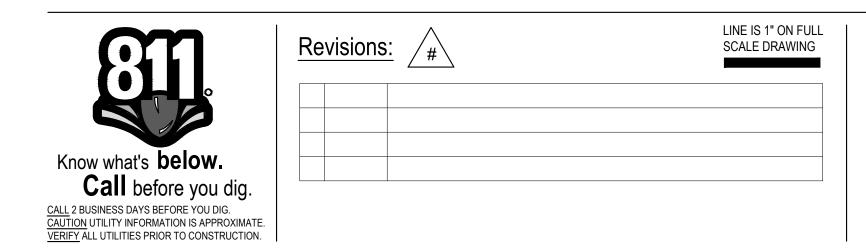


CONTROL POINT TABLE							
POINT#	DESCRIPTION	ELEVATION	NORTHING	EASTING			
1	MAG	73.44	766543.1220	7326337.3500			
9	MAG	73.89	766547.5130	7325977.8150			
10	MAG	77.14	765915.9150	7326433.3780			
34	MAG	73.77	766232.9110	7326436.4610			
35	MAG	80.68	765704.4960	7326392.1760			
37	MAG	112.27	765204.1180	7326023.6240			
72	MAG	106.13	767302.0370	7326379.7030			
73	MAG	103.06	767311.8930	7326197.1910			
74	MAG	105.14	767428.2000	7326080.3200			
75	MAG	96.98	767077.5920	7326397.1530			
76	MAG	83.57	766748.5840	7326361.9600			
77	MAG	74.95	766509.1580	7326387.7830			

CONTROL POINT TABLE							
POINT #	DESCRIPTION	ELEVATION	NORTHING	EASTING			
78	MAG	73.66	766330.4620	7326422.2460			
79	MAG	89.75	766908.3010	7326365.4820			
101	MAG	78.80	765767.1170	7326415.0740			
336	MAG	84.35	765151.6530	7326217.5720			
372	MAG	106.22	767302.0300	7326379.6820			
1857	HYD	51.66	764425.2330	7325997.8050			
2053	HYD	71.73	764731.2750	7325916.2970			
2356	HYD	84.41	765144.3580	7326249.1130			
2542	HYD	78.13	765847.3410	7326466.9360			
3138	HYD	80.43	766672.7380	7326352.6560			

LINE TABLE: ALIGNMENTS							
LINE#	LENGTH	DIRECTION START POINT		END POINT			
L1	15.59	N13° 41' 07.64"W	(7326021.80,764392.97)	(7326018.11,764408.11)			
L2	74.20	N04° 17' 38.64"W	(7326012.99,764440.46)	(7326007.44,764514.45)			
L3	141.63	N23° 15' 41.08"E	(7326038.83,764702.37)	(7326094.76,764832.48)			
L4	122.12	N21° 53' 59.88"E	(7326098.41,764841.26)	(7326143.96,764954.57)			
L5	101.81	N25° 29' 01.34"E (7326154.01,764977.48)		(7326197.82,765069.38)			
L6 158.69		N12° 15' 26.69"E	(7326227.62,765156.56)	(7326261.31,765311.63)			
L7	L7 78.13 N16°		(7326272.32,765354.59)	(7326294.50,765429.50)			
L8	138.07	N23° 32' 50.90"E	(7326370.22,765637.32)	(7326425.38,765763.89)			
L9	140.10	N06° 56' 40.03"W	(7326442.90,765873.60)	(7326425.96,766012.67)			
L10	26.67	N09° 36' 22.39"E	(7326428.79,766134.69)	(7326433.24,766160.99)			
L11	83.24	N14° 38' 00.81"W	(7326424.02,766371.16)	(7326402.99,766451.70)			
L12	30.02	N16° 32' 33.76"W	(7326402.99,766451.70)	(7326394.44,766480.48)			
L13	66.48	N14° 38' 00.81"W	(7326394.44,766480.48)	(7326377.65,766544.80)			
L14	419.35	N02° 38' 42.50"E	(7326362.09,766521.87)	(7326381.45,766940.78)			

	CURVE TABLE: ALIGNMENTS						
CURVE #	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT		
C1	200.00	32.78	N08° 59' 23.14"W	(7326018.11,764408.11)	(7326012.99,764440.46)		
C2	400.00	192.37	N09° 29' 01.22"E	(7326007.44,764514.45)	(7326038.83,764702.37)		
C3	400.00	9.50	N22° 34' 50.48"E	(7326094.76,764832.48)	(7326098.41,764841.26)		
C4	400.00	25.02	N23° 41' 30.61"E	(7326143.96,764954.57)	(7326154.01,764977.48)		
C5	400.00	92.34	N18° 52' 14.02"E	(7326197.82,765069.38)	(7326227.62,765156.56)		
C6	600.00	44.35	N14° 22' 30.35"E	(7326261.31,765311.63)	(7326272.32,765354.59)		
C7	1797.50	221.32	N20° 01' 12.46"E	(7326294.50,765429.50)	(7326370.22,765637.32)		
C8	232.50	61.78	N15° 56' 07.35"E	(7326425.38,765763.89)	(7326442.29,765823.12)		
C9	190.00	50.63	N00° 41' 21.88"E	(7326442.29,765823.12)	(7326442.90,765873.60)		
C10	424.00	122.48	N01° 19' 51.18"E	(7326425.96,766012.67)	(7326428.79,766134.69)		
C11	501.00	211.96	N02° 30' 49.21"W	(7326433.24,766160.99)	(7326424.02,766371.16)		





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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231
Issue Date: 4/11/2025

Project Manager MRL

Drawn by DTT

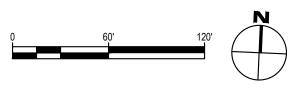
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SURVEY AND HORIZONTAL CONTROL PLAN

G005

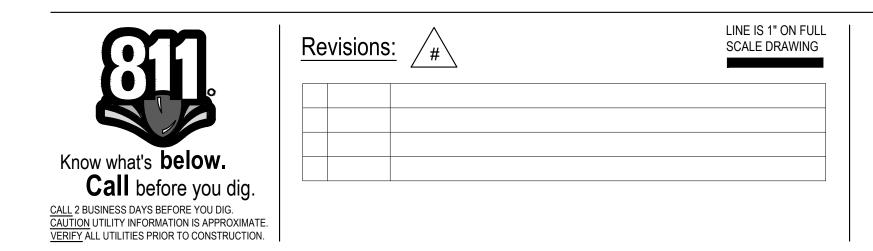


PLAN - NECARNEY WATERMAIN ALIGNMENT



LINE TABLE: ALIGNMENTS							
LINE#	LENGTH	DIRECTION	START POINT	END POINT			
L15	9.23	N10° 52' 18.52"E	(7327378.21,764386.73)	(7327379.95,764395.79)			
L16 168.29		N35° 05' 06.64"E	(7327379.95,764395.79)	(7327476.68,764533.50)			
L17	74.78	N32° 34' 34.48"E	(7327476.68,764533.50)	(7327516.95,764596.52)			
L18	75.09	N44° 05' 36.95"E	(7327785.33,764958.18)	(7327837.58,765012.11)			
L19	100.10	N46° 56' 25.17"E	(7327995.79,765172.33)	(7328068.92,765240.67)			
L20 31.60		S66° 10' 55.83"E	(7328321.90,765317.89)	(7328350.81,765305.13)			
L21	82.79	S61° 06' 41.65"E	(7328350.81,765305.13)	(7328423.30,765265.13)			
L22	121.63	S58° 43' 26.09"E	(7328423.30,765265.13)	(7328527.25,765201.99)			

	CURVE TABLE: ALIGNMENTS						
CURVE#	RADIUS	LENGTH	CHORD DIRECTION	START POINT	END POINT		
C12	3226.43	450.73	N36° 34' 41.85"E	(7327516.95,764596.52)	(7327785.33,764958.18)		
C13	11838.82	225.17	N44° 38' 18.46"E	(7327837.58,765012.11)	(7327995.79,765172.33)		
C14	968.63	84.51	N49° 26' 22.69"E	(7328068.92,765240.67)	(7328133.10,765295.60)		
C15	182.81	199.92	N83° 16' 02.73"E	(7328133.10,765295.60)	(7328321.90,765317.89)		





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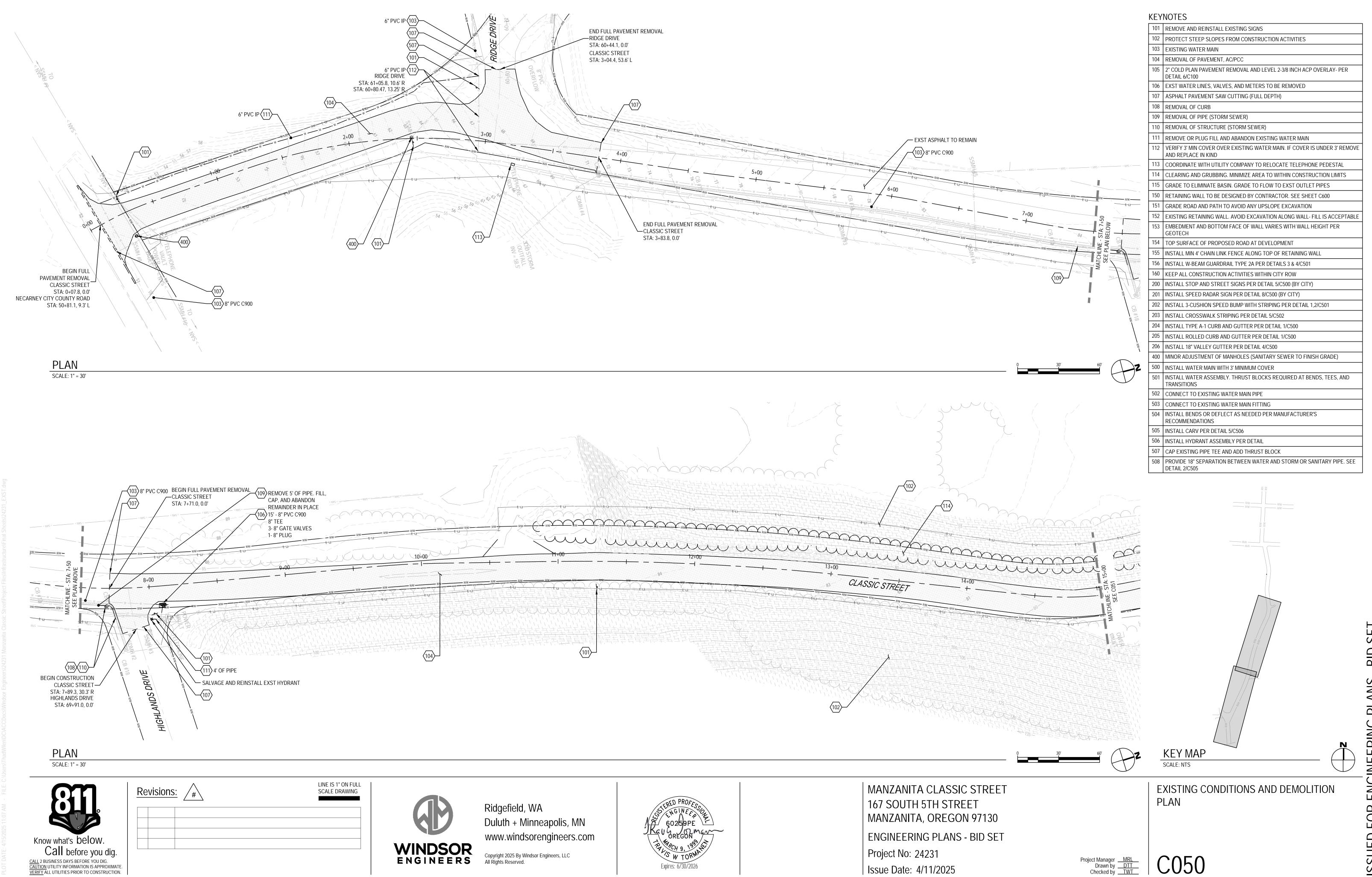
ENGINEERING PLANS - BID SET

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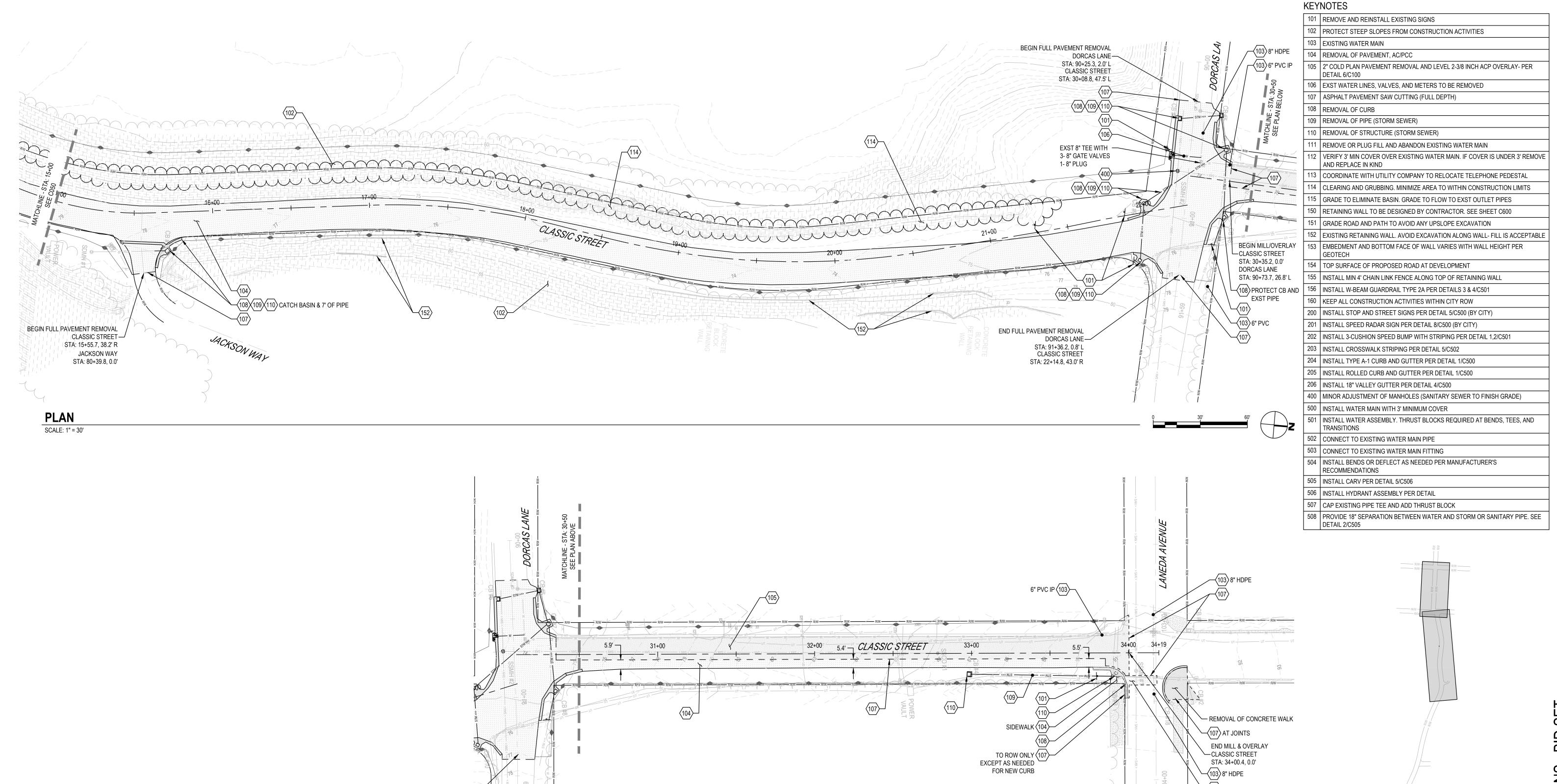
Project Manager MRL
Drawn by DTT
Checked by TWT

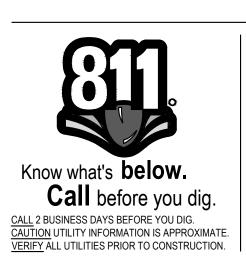
SURVEY AND HORIZONTAL CONTROL PLAN

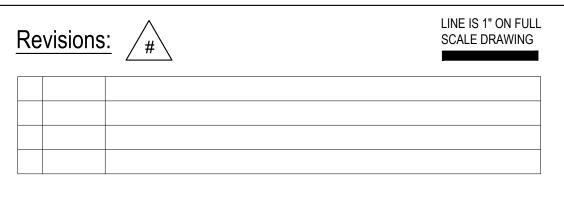
G006



ENGINEERING PLANS









PLAN

SCALE: 1" = 30'

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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

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Project Manager MRL
Drawn by DTT
Checked by TWT

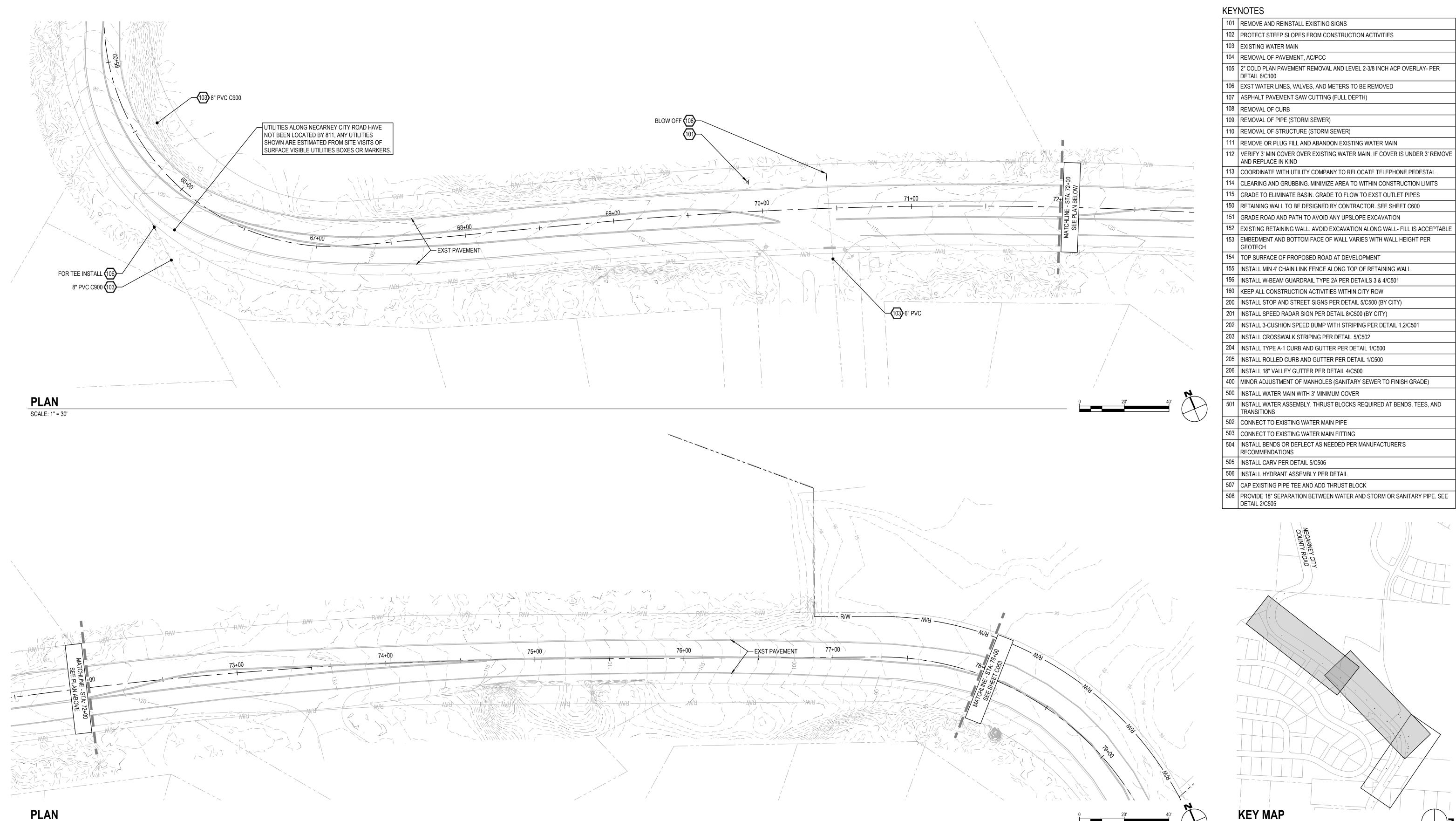
EXISTING CONDITIONS AND DEMOLITION PLAN

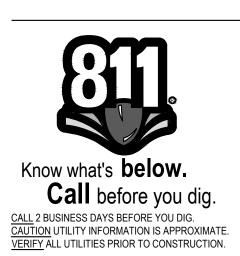
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KEY MAP

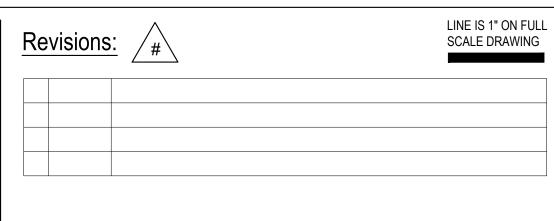
SCALE: NTS

ISSUED FOR ENGINEERING PLANS - BID S





SCALE: 1" = 30'





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MANZANITA CLASSIC STREET
167 SOUTH 5TH STREET
MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231
Issue Date: 4/11/2025

Project Manager MRL
Drawn by DTT
Checked by TWT

EXISTING CONDITIONS AND DEMOLITION PLAN

C052

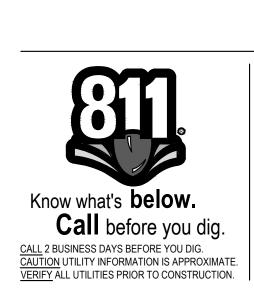
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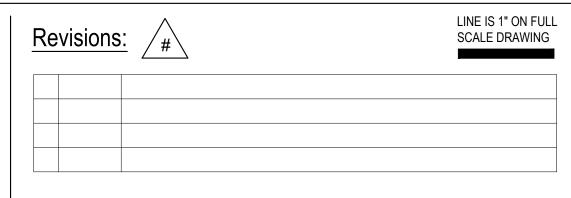
101	REMOVE AND REINSTALL EXISTING SIGNS			
102	PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES			
103	EXISTING WATER MAIN			
104	REMOVAL OF PAVEMENT, AC/PCC			
105	2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER DETAIL 6/C100			
106	EXST WATER LINES, VALVES, AND METERS TO BE REMOVED			
107	ASPHALT PAVEMENT SAW CUTTING (FULL DEPTH)			
108	REMOVAL OF CURB			
109	REMOVAL OF PIPE (STORM SEWER)			
110	REMOVAL OF STRUCTURE (STORM SEWER)			
111	REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN			
112	VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMO' AND REPLACE IN KIND			
113	COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL			
114	CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS			
115	GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES			
150	RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600			
151	GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION			
152	EXISTING RETAINING WALL. AVOID EXCAVATION ALONG WALL- FILL IS ACCEPTABLE			
153	EMBEDMENT AND BOTTOM FACE OF WALL VARIES WITH WALL HEIGHT PER GEOTECH			
154	TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT			
155	INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL			
156	INSTALL W-BEAM GUARDRAIL TYPE 2A PER DETAILS 3 & 4/C501			
160	KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW			
200	INSTALL STOP AND STREET SIGNS PER DETAIL 5/C500 (BY CITY)			
201	INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY)			
202	INSTALL 3-CUSHION SPEED BUMP WITH STRIPING PER DETAIL 1,2/C501			
203	INSTALL CROSSWALK STRIPING PER DETAIL 5/C502			
204	INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500			
205	INSTALL ROLLED CURB AND GUTTER PER DETAIL 1/C500			
206	INSTALL 18" VALLEY GUTTER PER DETAIL 4/C500			
400	MINOR ADJUSTMENT OF MANHOLES (SANITARY SEWER TO FINISH GRADE)			
500	INSTALL WATER MAIN WITH 3' MINIMUM COVER			
501	INSTALL WATER ASSEMBLY. THRUST BLOCKS REQUIRED AT BENDS, TEES, AND TRANSITIONS			
502	CONNECT TO EXISTING WATER MAIN PIPE			
503	CONNECT TO EXISTING WATER MAIN FITTING			
504	INSTALL BENDS OR DEFLECT AS NEEDED PER MANUFACTURER'S RECOMMENDATIONS			
505	INSTALL CARV PER DETAIL 5/C506			
506	INSTALL HYDRANT ASSEMBLY PER DETAIL			
	-			

ISSUED FOR ENGINEERING PLANS - BID SET **KEY MAP** SCALE: NTS

508 PROVIDE 18" SEPARATION BETWEEN WATER AND STORM OR SANITARY PIPE. SEE DETAIL 2/C505

507 CAP EXISTING PIPE TEE AND ADD THRUST BLOCK







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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

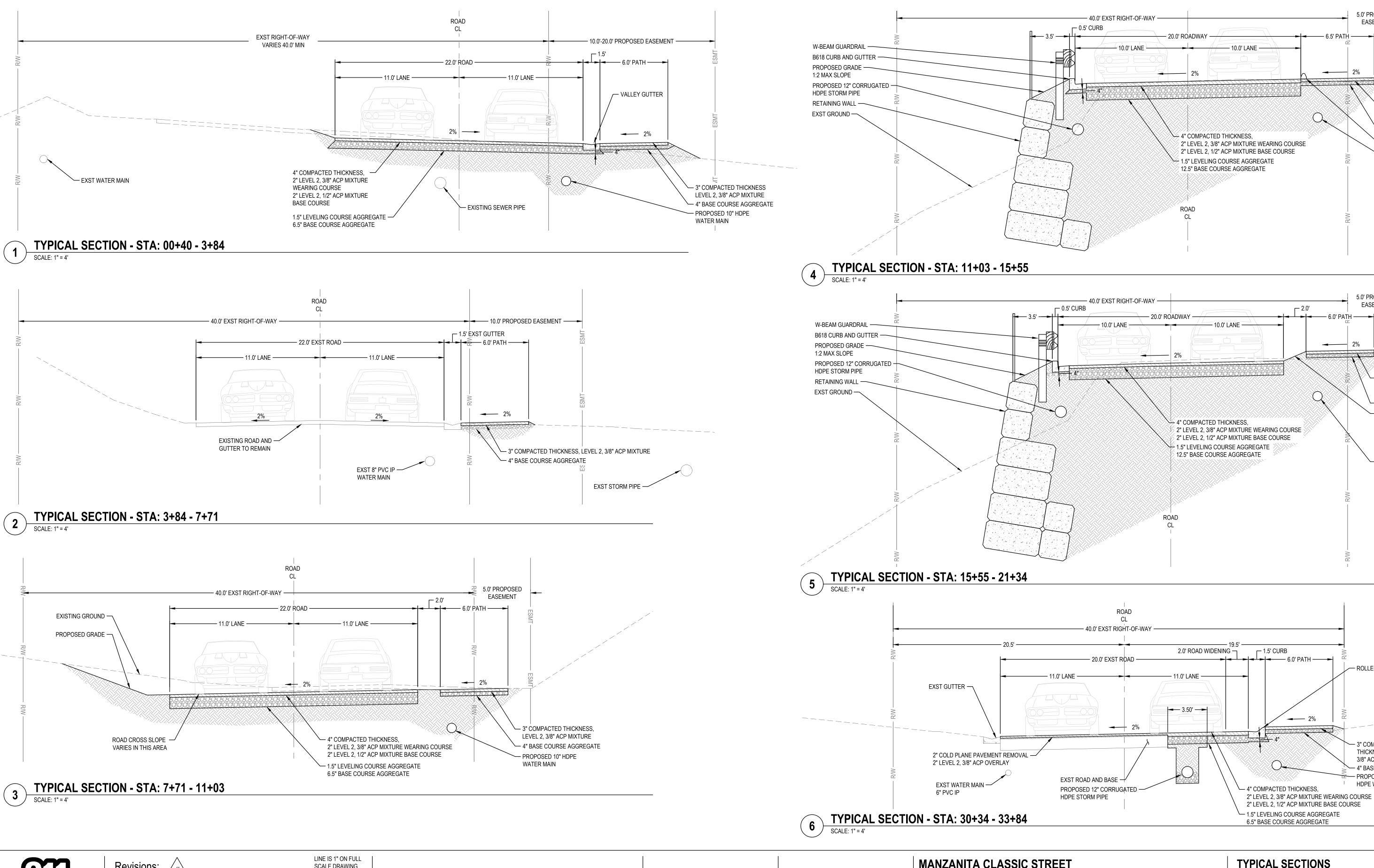
ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025

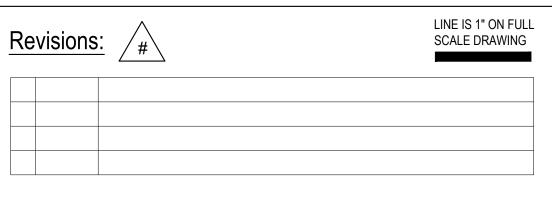
Project Manager MRL
Drawn by DTT
Checked by TWT

EXISTING CONDITIONS AND DEMOLITION PLAN

C053









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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130 **ENGINEERING PLANS - BID SET** Project No: 24231 Issue Date: 4/11/2025

Project Manager MRL
Drawn by DTT
Checked by TWT

TYPICAL SECTIONS

5.0' PROPOSED

EASEMENT

5.0' PROPOSED

EASEMENT

- 3" COMPACTED

THICKNESS, LEVEL 2,

4" BASE COURSE AGGREGATE

3/8" ACP MIXTURE

- 2' BOULEVARD; SLOPE

MAY VARY (1:2 MAX).

FOR SURFACE

COVERING AND

SECTION NEEDED

PROPOSED 10" FUSED

HDPE WATER MAIN

← ROLLED CURB

3" COMPACTED

THICKNESS, LEVEL 2,

PROPOSED 10" FUSED

4" BASE COURSE AGGREGATE

ENGINEERING

3/8" ACP MIXTURE

HDPE WATER MAIN

SEE LANDSCAPE PLAN

— 2.0'

- 3" COMPACTED THICKNESS, LEVEL 2,

3/8" ACP MIXTURE

TRAFFIC DELINEATORS

— PROPOSED 10" FUSED

HDPE WATER MAIN

- 4" BASE COURSE AGGREGATE

— 6.5' РАТН —

2. Visual monitoring inspection reports must be made in accordance with DEQ 1200-C permit requirements. (Section 6.5)

3. Inspection logs must be kept in accordance with DEQ's 1200-C permit requirements. (Section 6.5.q)

4. Retain a copy of the ESCP and all revisions on site and make it available on request to DEQ, Agent, or the local municipality. (Section 4.7)

5. The permit registrant must implement the ESCP. Failure to implement any of the control measures or practices described in the ESCP is a violation of the permit. (Sections 4 and 4.11)

6. The ESCP must be accurate and reflect site conditions. (Section 4.8)

7. Submission of all ESCP revisions is not required. Submittal of the ESCP revisions is only under specific conditions. Submit all necessary revision to DEQ or Agent within 10 days. (Section 4.9)

8. Sequence clearing and grading to the maximum extent practical to prevent exposed inactive areas from becoming a source of erosion. (Section 2.2.2)

9. Create smooth surfaces between soil surface and erosion and sediment controls to prevent stormwater from bypassing controls and ponding. (section 2.2.3)

10. Identify, mark, and protect (by construction fencing or other means) critical riparian areas and vegetation including important trees and associated rooting zones, and vegetation areas to be preserved. Identify vegetative buffer zones between the site and sensitive areas (e.g., wetlands), and other areas to be preserved, especially in perimeter areas. (Section 2.2.1)

11. Preserve existing vegetation when practical and re-vegetate open areas. Re-vegetate open areas when practicable before and after grading or construction. Identify the type of vegetative seed

12. Maintain and delineate any existing natural buffer within the 50-feet of waters of the state. (Section 2.2.4)

13. Install perimeter sediment control, including storm drain inlet protection as well as all sediment basins, traps, and barriers prior to land disturbance. (Sections 2.1.3)

14. Control both peak flow rates and total stormwater volume, to minimize erosion at outlets and downstream channels and stream banks. (Sections 2.1.1. and 2.2.16)

15. Control sediment as needed along the site perimeter and at all operational internal storm drain inlets at all times during construction, both internally and at the site boundary. (Sections 2.2.6 and

16. Establish concrete truck and other concrete equipment washout areas before beginning concrete work. (Section 2.2.14)

17. Apply temporary and/or permanent soil stabilization measures immediately on all disturbed areas as grading progresses. Temporary or permanent stabilizations measures are not required for areas that are intended to be left unvegetated, such as dirt access roads or utility pole pads. (Sections 2.2.20 and 2.2.21)

18. Establish material and waste storage areas, and other non-stormwater controls. (Section 2.3.7)

19. Keep waste container lids closed when not in use and close lids at the end of the business day for those containers that are actively used throughout the day. For waste containers that do not have lids, provide either (1) cover (e.g., a tarp, plastic sheeting, temporary roof) to prevent exposure of wastes to precipitation, or (2) a similarly effective means designed to prevent the discharge of pollutants (e.g., secondary containment). (Section 2.3.7)

20. Prevent tracking of sediment onto public or private roads using BMPs such as: construction entrance, graveled (or paved) exits and parking areas, gravel all unpaved roads located onsite, or use an exit tire wash. These BMPs must be in place prior to land- disturbing activities. (Section 2.2.7)

21. When trucking saturated soils from the site, either use water-tight trucks or drain loads on site. (Section 2.2.7.f)

22. Control prohibited discharges from leaving the construction site, i.e., concrete wash-out, wastewater from cleanout of stucco, paint and curing compounds. (Sections 1.5 and 2.3.9)

23. Ensure that steep slope areas where construction activities are not occurring are not disturbed. (Section 2.2.10)

24. Prevent soil compaction in areas where post-construction infiltration facilities are to be installed. (Section 2.2.12)

25. Use BMPs to prevent or minimize stormwater exposure to pollutants from spills; vehicle and equipment fueling, maintenance, and storage; other cleaning and maintenance activities; and waste handling activities. These pollutants include fuel, hydraulic fluid, and other oils from vehicles and machinery, as well as debris, fertilizer, pesticides and herbicides, paints, solvents, curing compounds and adhesives from construction operations. (Sections 2.2.15 and 2.3.9)

26. Provide plans for sedimentation basins that have been designed per Section 2.2.17 and stamped by an Oregon Professional Engineer. (See Section 2.2.17.a)

27. If engineered soils are used on site, a sedimentation basin/impoundment must be installed. (See Sections 2.2.17 and 2.2.18)

28. Provide a dewatering plan for accumulated water from precipitation and uncontaminated groundwater seepage due to shallow excavation activities. (See Section 2.4)

29. Implement the following BMPs when applicable: written spill prevention and response procedures, employee training on spill prevention and proper disposal procedures, spill kits in all vehicles, regular maintenance schedule for vehicles and machinery, material delivery and storage controls, training and signage, and covered storage areas for waste and supplies. (Section 2.3)

30. Use water, soil-binding agent or other dust control technique as needed to avoid wind-blown soil. (Section 2.2.9)

31. The application rate of fertilizers used to reestablish vegetation must follow manufacturer's recommendations to minimize nutrient releases to surface waters. Exercise caution when using time-release fertilizers within any waterway riparian zone. (Section 2.3.5)

32. If an active treatment system (for example, electro-coagulation, flocculation, filtration, etc.) for sediment or other pollutant removal is employed, submit an operation and maintenance plan (including system schematic, location of system, location of inlet, location of discharge, discharge dispersion device design, and a sampling plan and frequency) before operating the treatment system. Obtain Environmental Management Plan approval from DEQ before operating the treatment system. Operate and maintain the treatment system according to manufacturer's

33. Temporarily stabilize soils at the end of the shift before holidays and weekends, if needed. The registrant is responsible for ensuring that soils are stable during rain events at all times of the year.

34. 34.As needed based on weather conditions, at the end of each workday soil stockpiles must be stabilized or covered, or other BMPs must be implemented to prevent discharges to surface waters or conveyance systems leading to surface waters. (Section 2.2.8)

35. Sediment fence: remove trapped sediment before it reaches one third of the above ground fence height and before fence removal. (Section 2.1.5.b)

36. Other sediment barriers (such as biobags): remove sediment before it reaches two inches depth above ground height and before BMP removal. (Section 2.1.5.c)

37. Catch basins: clean before retention capacity has been reduced by fifty percent. Sediment basins and sediment traps: remove trapped sediments before design capacity has been reduced by fifty percent and at completion of project. (Section 2.1.5.d)

38. Within 24 hours, significant sediment that has left the construction site, must be remediated. Investigate the cause of the sediment release and implement steps to prevent a recurrence of the discharge within the same 24 hours. Any in-stream clean-up of sediment shall be performed according to the Oregon Department of State Lands required timeframe. (Section 2.2.19.a)

39. The intentional washing of sediment into storm sewers or drainage ways must not occur. Vacuuming or dry sweeping and material pickup must be used to cleanup released sediments. (Section

40. Document any portion(s) of the site where land disturbing activities have permanently ceased or will be temporarily inactive for 14 or more calendar days. (Section 6.5.f.)

41. Provide temporary stabilization for that portion of the site where construction activities cease for 14 days or more with a covering of blown straw and a tackifier, loose straw, or an adequate covering of compost mulch until work resumes on that portion of the site. (Section 2.2.20)

42. Do not remove temporary sediment control practices until permanent vegetation or other cover of exposed areas is established. Once construction is complete and the site is stabilized, all temporary erosion controls and retained moved and disposed of properly, unless needed for long term use following termination of permit coverage. (Section 2.2.21)

EROSION AND SEDIMENT CONTROL PLAN

MANZANITA CLASSIC STREET

INSPECTION FREQUENCY

	SITE CONDITION	MINIMUM FREQUENCY
1.	ACTIVE PERIOD	ON INITIAL DATE THAT LAND DISTURBANCE ACTIVITES COMMENCE. WITHIN 24 HOURS OF ANY STORM EVENT, INCLUDING RUNOFF FROM SNO MELT, THAT RESULTS IN DISCHARGE FROM THE SITE. ATLEAST ONCE EVERY 14 DAYS, REGARDLESS OF WHETHER STORMWATE RUNOFF IS OCCURING.
2.	INACTIVE PERIODS GREATER THAN FOURTEEN (14) CONSECUTIVE CALENDAR DAYS	THE INSPECTOR MAY REDUCE THE FREQUENCY OF INSPECTIONS IN ANY AREA OF THE SITE WHERE THE STABILIZATION STEPS IN SECTION 2.2.20 HAVE BEEN COMPLETED TO TWICE PER MONTH FOR THE FIRST MONTH, I LESS THAN 14 CALENDAR DAYS APART, THEN ONCE PER MONTH
3.	PERIODS DURING WHICH THE SITE IS INACCESSIBLE DUE TO INCREMENT WEATHER.	IF SAFE, ACCESSIBLE AND PRACTICAL, INSPECTIONS MUST OCCUR DAILY AT A RELEVANT DISCHARGE POINT OR DOWNSTREAM LOCATION OF THE RECEIVING WATERBODY.
4.	PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE SUSPENDED AND RUNOFF IS UNLIKELY DUE TO FROZEN CONDITIONS	VISUAL MONITORING INSPECTIONS MAY BE TEMPORARILY SUSPENDED IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHE CONDITIONS MAKE DISCHARGES LIKELY.
5.	PERIODS DURING WHICH CONSTRUCTION ACTIVITIES ARE CONDUCTED AND RUNOFF IS UNLIKELY DURING FROZEN CONDITIONS	VISUAL MONITORING INSPECTIONS MAY BE REDUCED TO ONCE A MONTH IMMEDIATELY RESUME MONITORING UPON THAWING, OR WHEN WEATHE CONDITIONS MAKE DISCHARGES LIKELY.

BMP MATRIX FOR CONSTRUCTION PHASE

Year			2025		
Phase/BMP	CLEARING	MASS GRADING	UTILITY CONSTRUCTION	VERTICAL CONSTRUCTION	FINAL STABILIZATION
	<u> </u>	ER	OSION PREVENTIO	N	
Ground Cover					
Plastic Sheeting					
Dust Control					
Temporary Stabilization (Straw Mulch/Hydroseed)	Х	Х			
Permanent Stabilization					Х
Buffer Zone (from Ravine)			Х		
		SE	DIMENT CONTROL		
Sediment Fence (Perimeter)	Х	Х	Х	Х	Х
Sediment Fence (Interior)					
Straw Wattles					
Inlet Protection X X		Х	Х	Х	Х
Dewatering		AS RE	QUIRED BY ENGINEE	 R	

		RU	N OFF CONTROL		
Construction Entrance	Х	Х			
Existing Outlet Protection	Х	Х			
New Outlet Protection					
Existing Curb Inlet Check Dams	AS REQUIRED BY ENGINEER				
		PO	LLUTION PREVENT	TON	
Harzard Waste Management					
Spill Kit Onsite	Χ	Х	Х	Х	Х
Concrete Washout Area	Х	Х	Х	Х	Х

OWNER / DEVELOPER

DEVELOPMENT/COMPANY CITY OF MANZANITA CONTACT: LEILA AMAN, CITY MANAGER ADDRESS: PO BOX 129 MANZANITA, OR 97130

DESIGN ENGINEER

WINDSOR ENGINEERS CONTACT: TRAVIS TORMANEN, PE OFFICE: 360-903-9281

SURVEYOR

ONION PEAK DESIGN CONTACT: ERICK WHITE, PLS ADDRESS: 11460 EVERGREEN WAY NEAHALEM, OR 97131 PHONE: 503-440-4403

GEOTECHNICAL ENGINEER

PALI CONSULTING CONTACT: ADDRESS: 4891 WILLAMETTE FALLS DRIVE, SUITE 1 WEST LINN, OR 97608

PHONE: 503-502-0820

BMP INSTALLER / MAINTAINER:

CONTRACTOR (TO BE COMPETITIVELY BID)

SITE CONTRACTOR

CONTRACTOR (TO BE COMPETITIVELY BID)

ESCP PREPARER

NORTH COAST CIVIL DESIGN, LLC CONTACT: KYLE AYERS, PE 35270 TOHL AVENUE

NEHALEM, OR 97131 PHONE: 503-812-3732 OFFICE: 503-368-3732

RAIN GAUGE

NORTH COAST CIVIL

35240 TOHL AVENUE

NEHALEM, OR 97131

MANZANITA CLASSIC STREET

167 SOUTH 5TH STREET MANZANITA, OREGON 97130

Project No: 24231

TYPE OF DEVELOPMENT: PUBLIC COMMERCIAL CONSTRUCTION ACTIVITY WILL CONSIST OF: A. CLEAR AND GRUB B. CONSTRUCTION ENTRANCE C. GRADING & UTILITY TRENCHING E. CONCRETE SURFACING F. ASPHALT SURFACING G. LANDSCAPING

PROJECT TIMELINE: BEGINNING DATE: EARLY 2025 COMPLETE DATE: NOVEMBER, 2025

SITE INFORMATION:

D. FORMWORK

PROJECT SITE AREAS: -TOTAL AREA: 3.3 AC -DISTURBED AREA: 1.7 AC (EST) -PERCENT OF SITE DISTURBED: 50% (EST)

OFFSITE PUBLIC IMPROVEMENT AREA: -IMPROVEMENT LENGTH: NO PLANNED OFF-SITE **IMPROVEMENTS**

ONSITE SOIL TYPES: A. NETARTS FINE SANDY LOAM, NATIVE EOLIAN SANDS AND FINE SAND

CUT AND FILL DATA: CUT: 1286 CU. YD FILL: 1635 CU. YD

INDICATES CONTROL POINT AS NOTED. INDICATES WATER METER. INDICATES TELEPHONE PEDESTAL. INDICATES POWER PEDESTAL INDICATES POWER POLE.

INDICATES WATER VALVE.

INDICATES STREET SIGN.

INDICATES IRRIGATION VALVE

INDICATES FIRE HYDRANT

INDICATES WATERLINE. INDICATES SANITARY SEWER LINE.

INDICATES STORM DRAIN LINE.

INDICATES UNDERGROUND POWER LINE. INDICATES UNDERGROUND TELECOMMUNICATION

INDICATES EDGE OF ASPHALT.

INDICATES EDGE OF GRAVEL. INDICATES CONCRETE

INDICATES TREE LINE.

EASEMENT

INLET PROTECTION. LIMIT OF CONSTRUCTION.

- R/W — RIGHT OF WAY

DRAINAGE FLOW MAJOR CONTOURS

MINOR CONTOURS **CATCH BASIN - CONCRETE** CATCH BASIN - NYLOPLAST

STORM LINE STORM MANHOLE **EXISTING STORM MANHOLE**

SITE & KEY MAP SCALE: NTS

> ESCP - BMPS ESCP - DETAILS

SHEET INDEX SWPPP ESCP - BMPS C111 ESCP - BMPS ESCP - BMPS ESCP - BMPS

ENGINEERING

FOR

ISSUED

PROJECT LOCATION

VICINITY MAP

CESCL INSPECTOR: NORTH COAST CIVIL DESIGN, LLC CONTACT: DAN AYERS 35270 TOHL AVENUE NEHALEM, OR 97131 PHONE: 503-440-1088

OFFICE: 503-368-3732

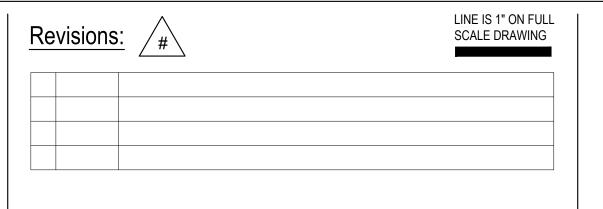
ENGINEERING PLANS - BID SET

Issue Date: 3/28/2025

Project Manager KA Checked by

SWPPP

Know what's **below. Call** before you dig. CALL 2 BUSINESS DAYS BEFORE YOU DIG. AUTION UTILITY INFORMATION IS APPROXIMATE VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.





Ridgefield, WA

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Internet: www.nccivil.com

CONSTRUCT CRUSHED ROCK ACCESS PAD. PROVIDE 6" MINIMUM DEPTH 2"-3" CRUSHED ROCK COMPACTED TO 90% MAXIMUM DENSITY. PAD SHALL BE 20' MIN

CONSTRUCT SEDIMENTATION CONTROL SILT FENCING PER DETAIL. REFER TO SHEET C116

102 CONSTRUCT CONCRETE WASHOUT AREA AS PER DETAIL. REFER TO SHEET C121.

INSTALL CATCH BASIN FILTER INSERT PER DETAIL ON SHEET C116.

104 CONSTRUCT SEDIMENTATION CONTROL CHECK DAM PER DETAIL. REFER TO SHEET C116.

INLET PROTECTION.

CATCH BASIN - CONCRETE CATCH BASIN - NYLOPLAST

EXISTING STORM MANHOLE

FERTILIZER SHALL BE FURNISHED IN MOISTURE PROOF BAGS. EACH BAG SHALL BE MARKED WITH THE WEIGHT AND WITH THE MANUFACTURER'S ANALYSIS OF THE CONTENTS SHOWING THE PERCENTAGE FOR EACH INGREDIENT CONTAINED THEREIN. FERTILIZER SHALL BE FURNISHED IN A DRY CONDITIONS FREE FROM LUMPS AND CAKING, IN GRANULAR OR PELLETIZED FORM.

FERTILIZER SHALL BE STANDARD COMMERCIAL GRADE AND SHALL CONFORM TO ALL STATE AND FEDERAL REGULATIONS, AND TO THE STANDARDS OF THE ASSOCIATION OF OFFICIAL AGRICULTURAL CHEMISTS. INORGANIC FERTILIZER SHALL CONSIST OF A CO-GRANULATED AMMONIUM PHOSPHATE AND MAGNESIUM POTASSIUM PHOSPHATE. CONTROLLED RELEASE COMPOUND HAVING A MINIMUM ANALYSIS EXPRESSED AS PERCENT OF TOTAL WEIGHT AS FOLLOWS:

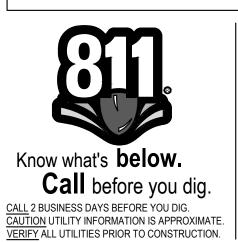
FOR ENGINEERING

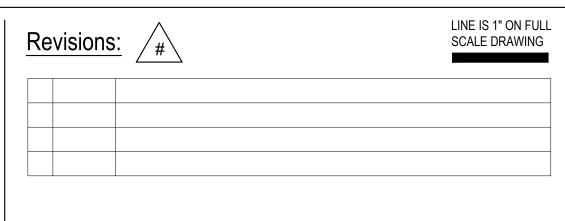
1. SEE LANDSCAPE PLAN FOR SEED MIX AND FERTILIZER.

GRADING PHASE INFORMATION:

A. NETARTS FINE SANDY LOAM, NATIVE EOLIAN SANDS

PLAN SCALE: 1" = 20'







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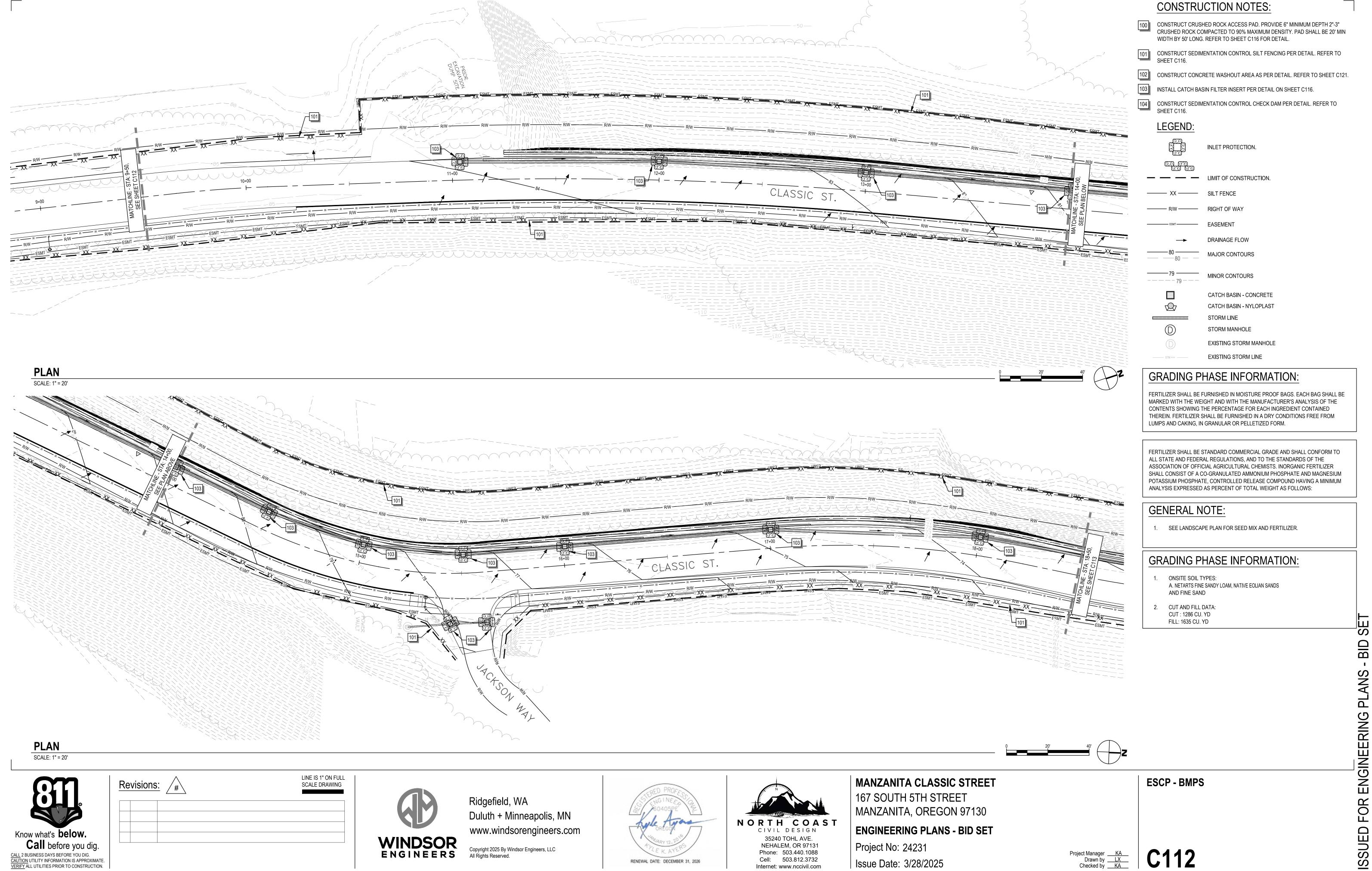
OR

MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 3/28/2025 Project Manager KA
Drawn by LX
Checked by KA

ESCP - BMPS

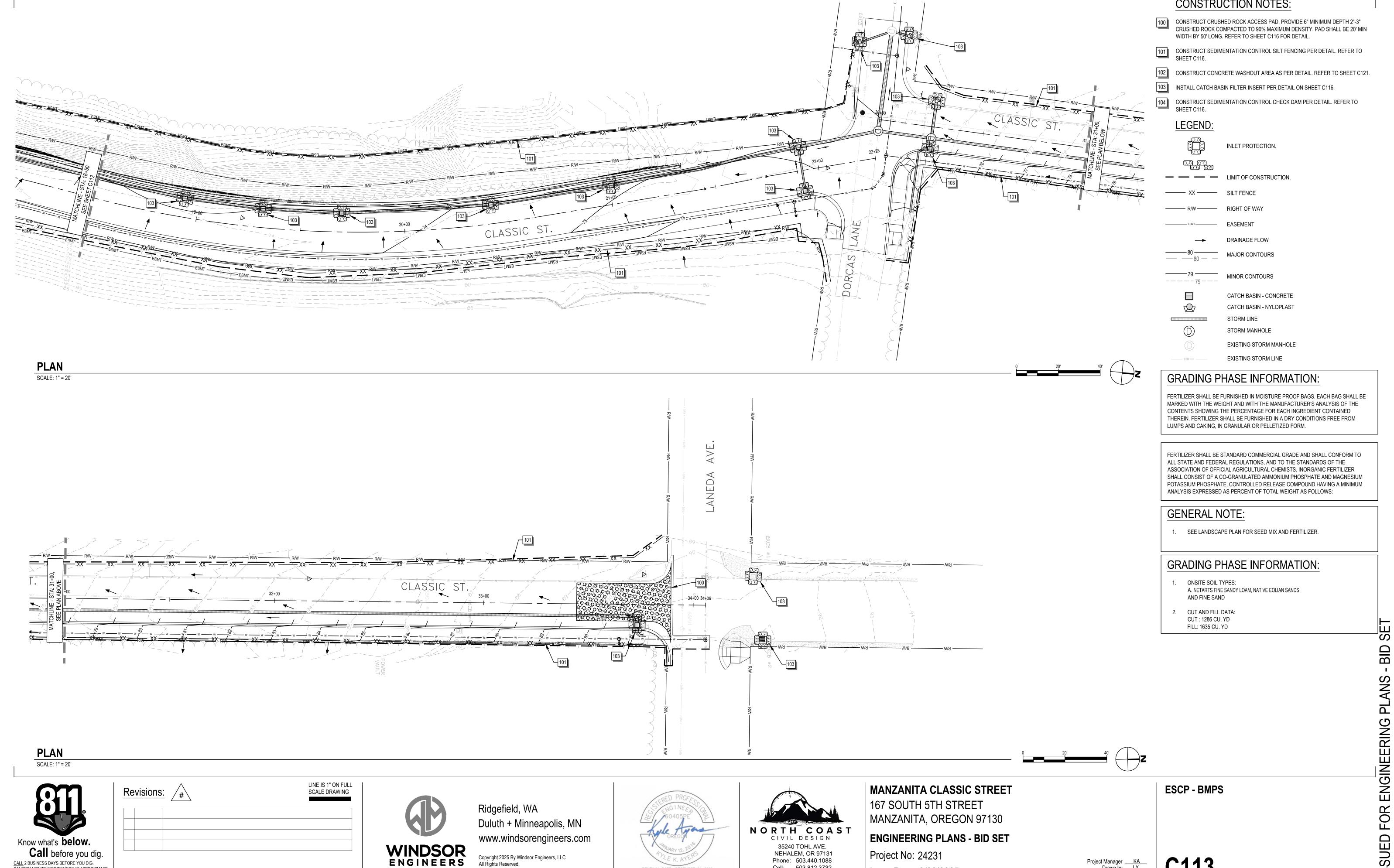


RENEWAL DATE: DECEMBER 31, 2026

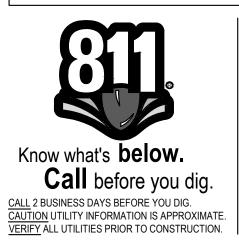
Cell: 503.812.3732

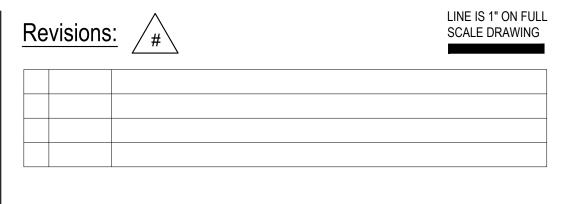
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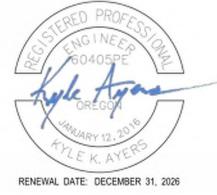


CONSTRUCTION NOTES:





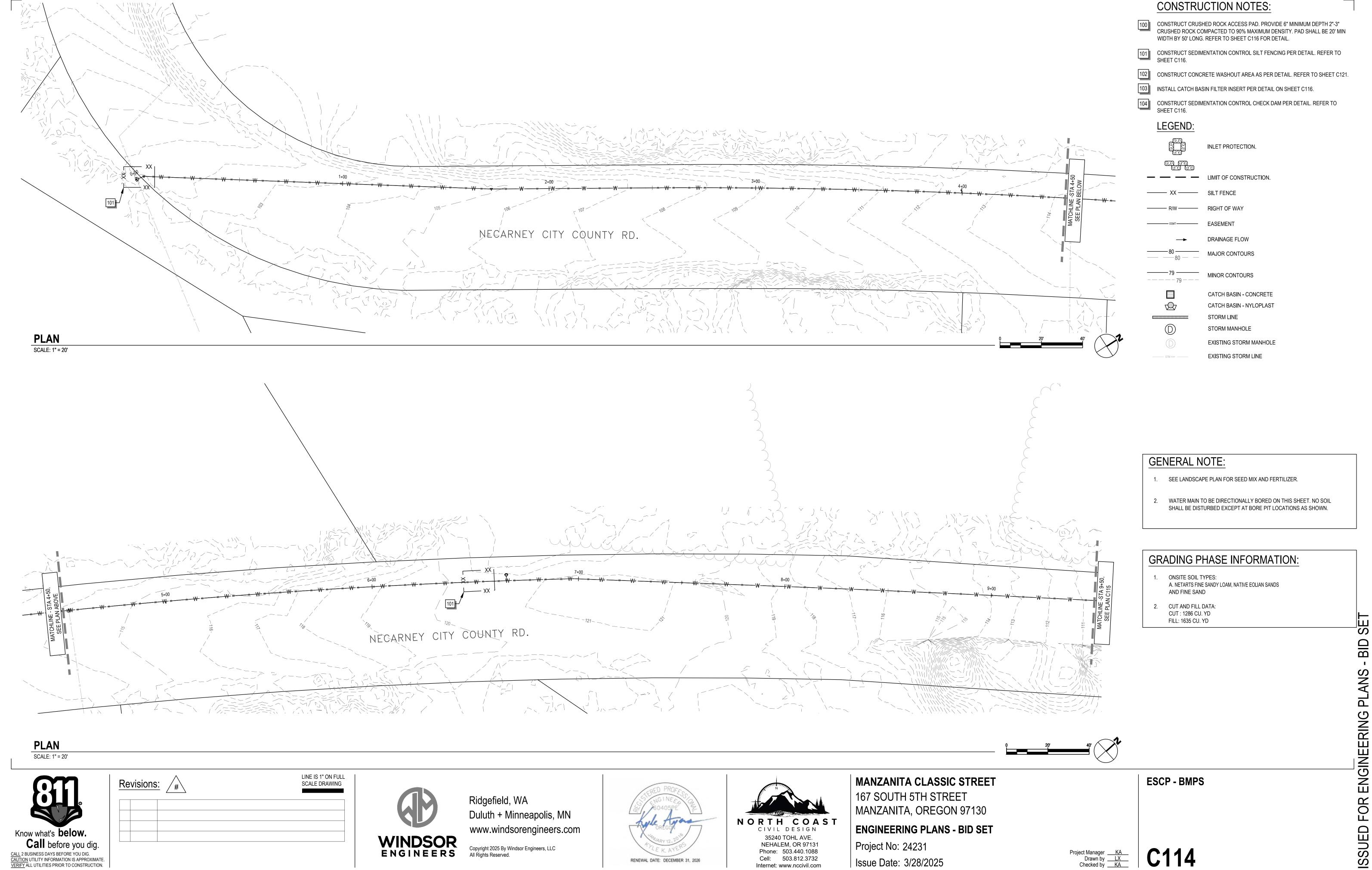






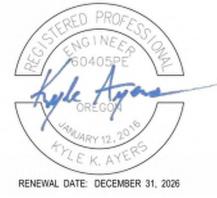
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Drawn by LX
Checked by KA





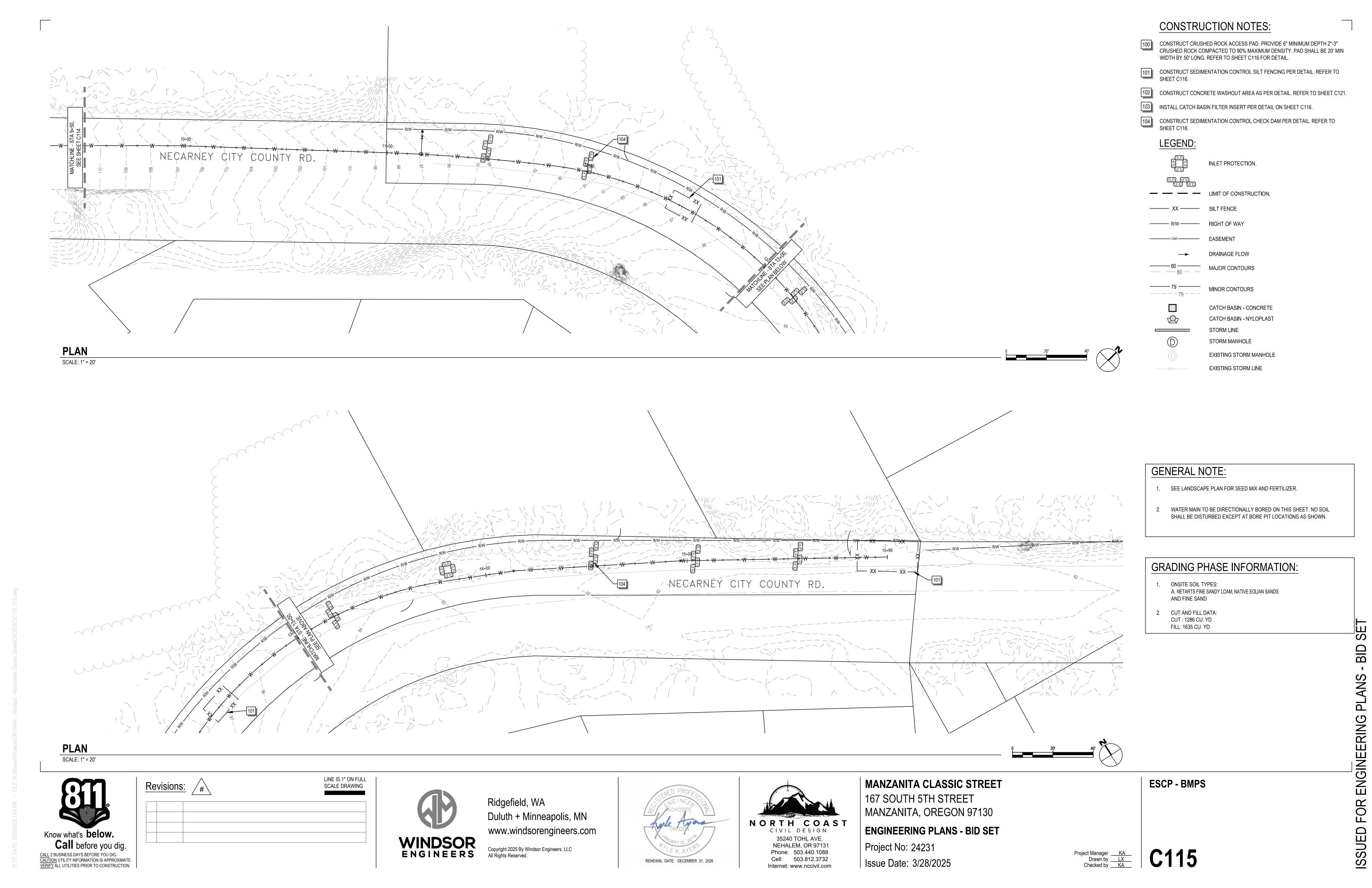
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Project No: 24231 Issue Date: 3/28/2025

Project Manager KA
Drawn by LX
Checked by KA





FOR

ISSUED

THREE LAYERS MIN. 10

STAKE PLASTIC @ 1' O.C. — 10 THE GROUND TO **ENCLOSE WASHOUT**

SAND BAGS STACKED 2'

HIGH. LINE WASHOUT WITH THREE LAYERS MIN. 10 MIL. PLASTIC TO

COMPLETELY ENCLOSE

WASHOUT

SUPPORT POST 10' O.C. 2"x2"x5' —

DOUGLAS FIR OR APPROVED

AND CAN SUPPORT FENCE

<u># 44 4 4 44 # 44 4</u>

SCALE: NTS

EQUAL. INSURE POST IS STABLE

PROTECTED DOWNSTREAM

MIL. PLASTIC

CONCRETE WASHOUT DETAIL

- ORANGE SEDIMENTATION CONTROL

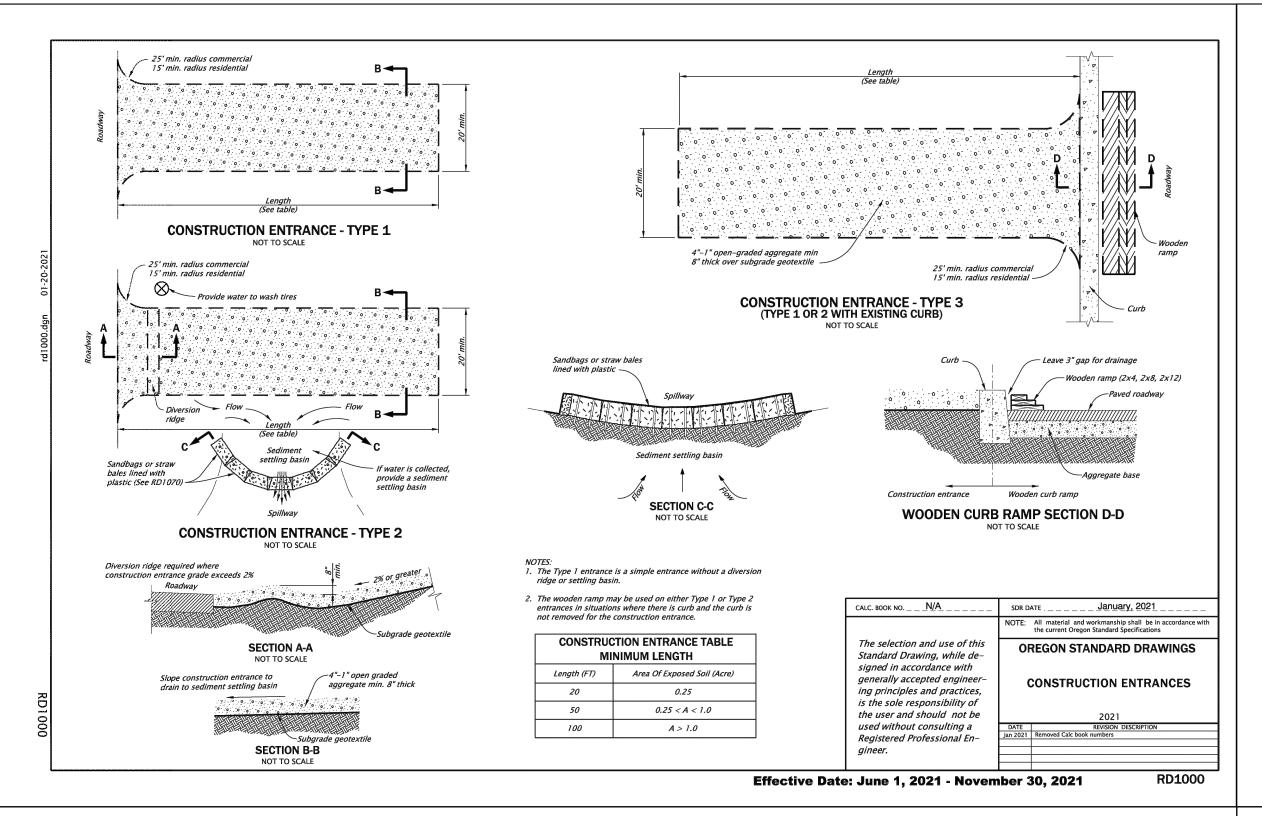
APPROVED EQUAL. SECURE FABRIC

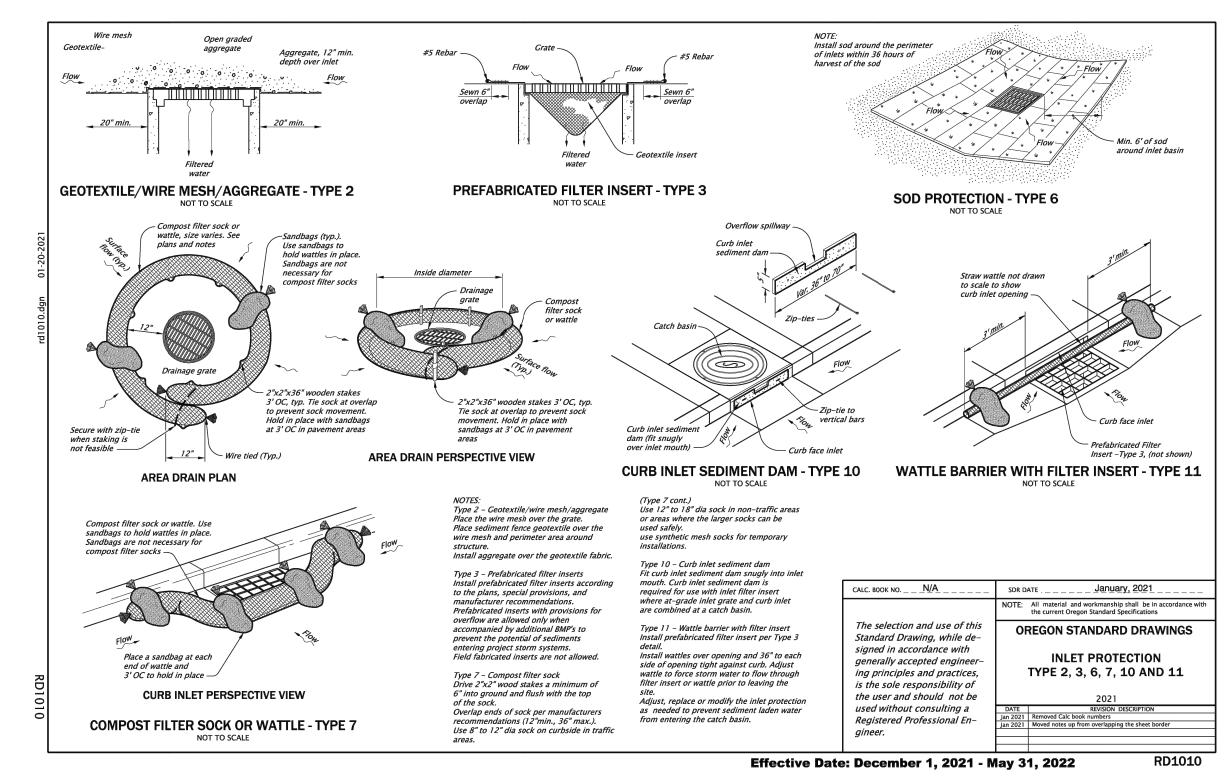
TO POST WITH TIE WIRE AT TOP,

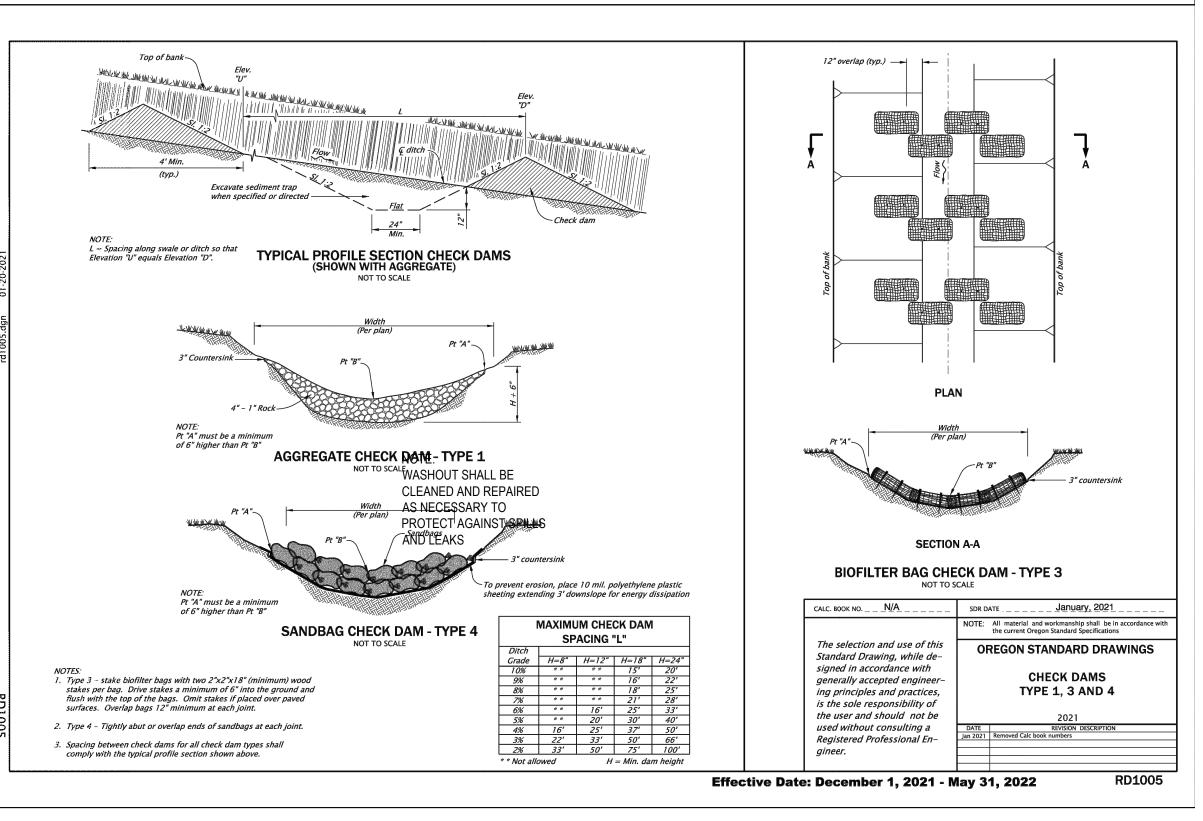
CENTER, AND BOTTOM OF POST.

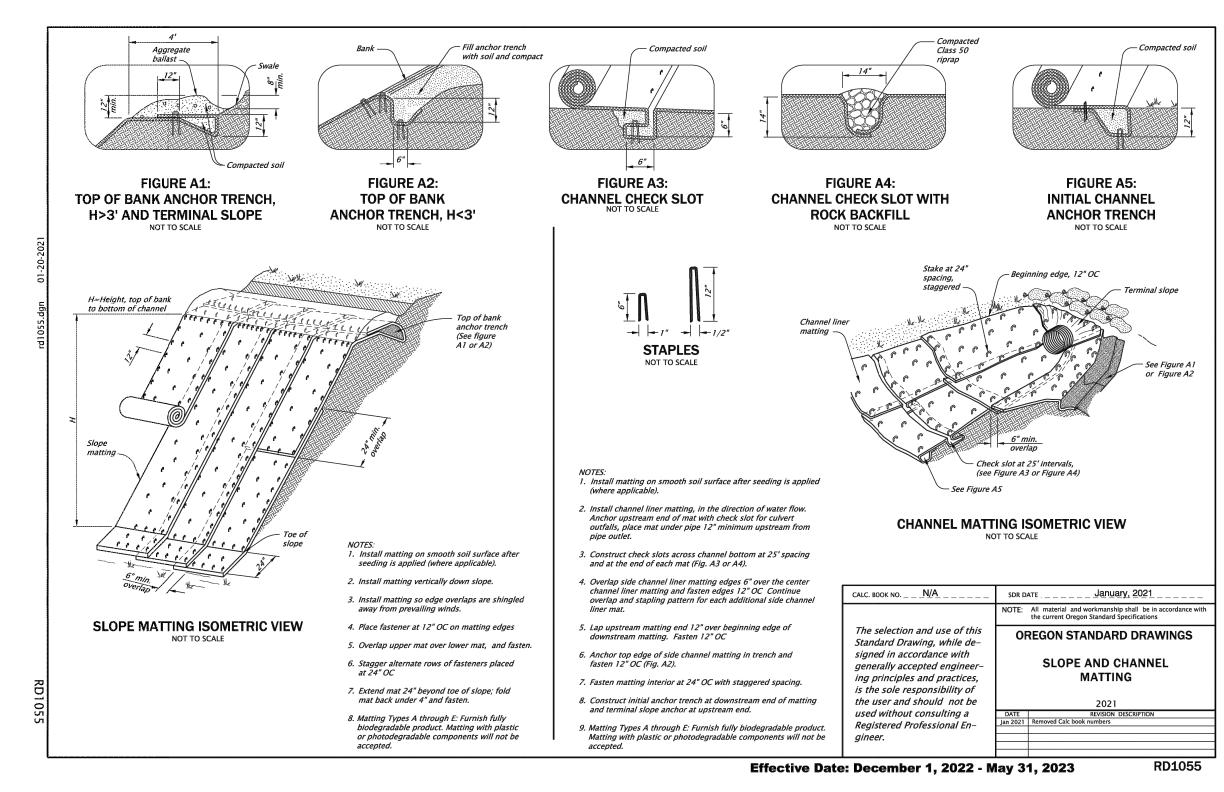
FABRIC, AMOCO 2122 OR

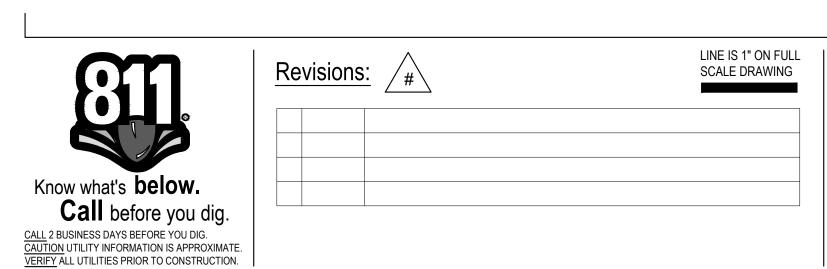
SCALE: NTS









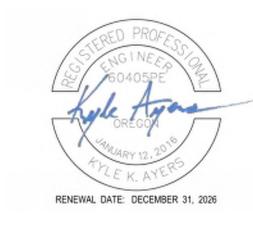




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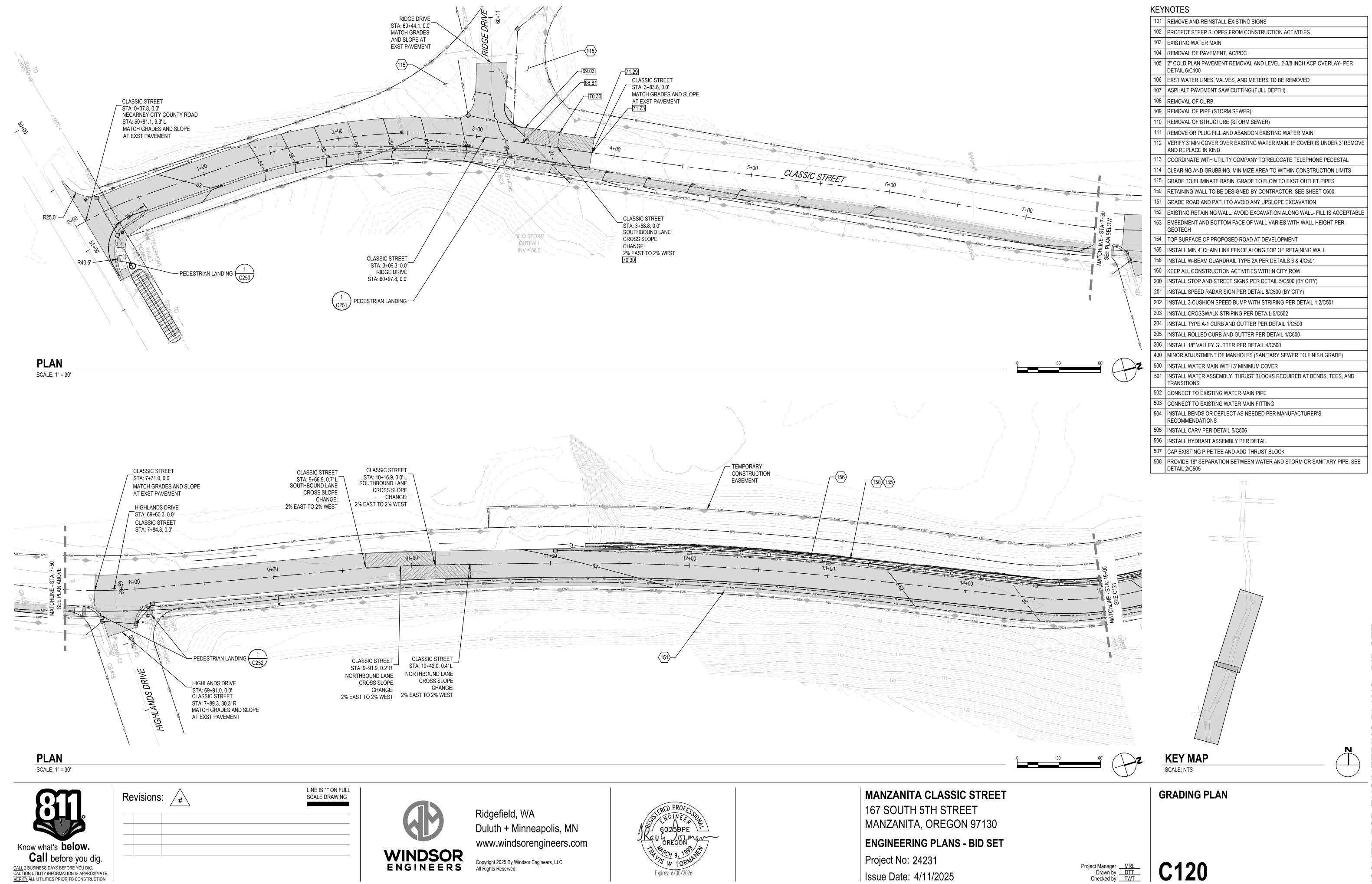
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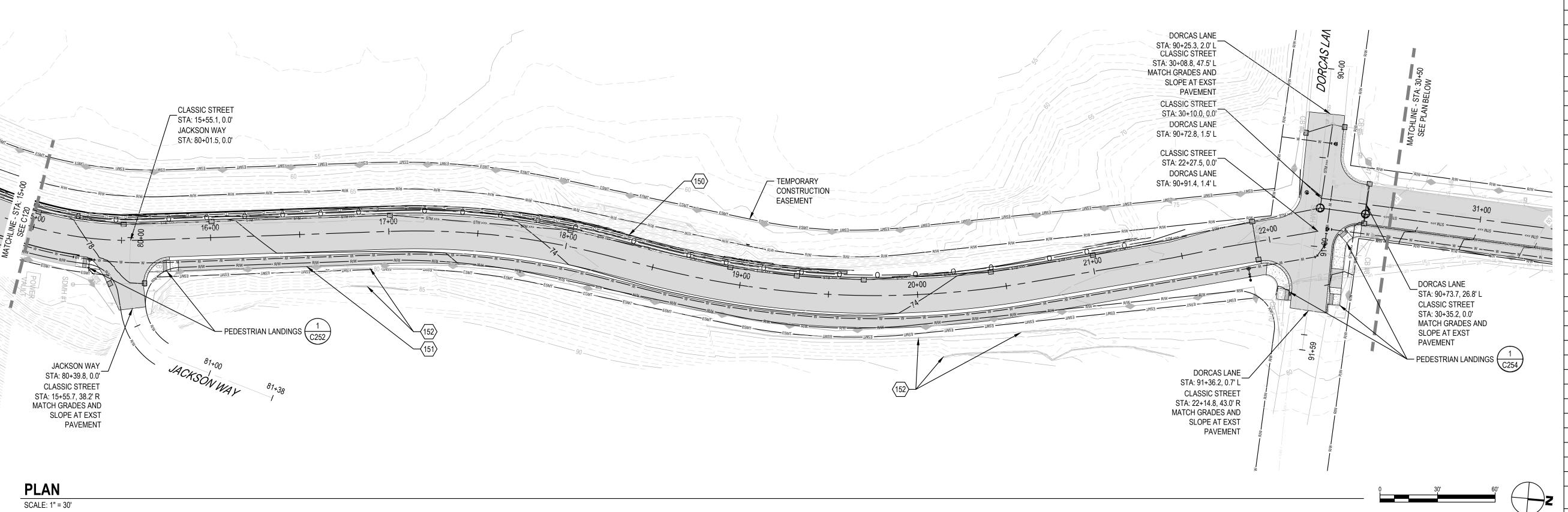
ESCP - DETAILS

Project Manager KA
Drawn by LX
Checked by KA



Issue Date: 4/11/2025

FOR ENGINEERING PLANS



CLASSIC STREET 32+00 31+00 CLASSIC STREET_ STA: 34+00.3, 0.0' - PEDESTRIAN LANDINGS $\frac{1}{C255}$ LANEDA AVENUE STA: 103+19.1, 17.1' R MATCH GRADES AND SLOPE AT EXST PAVEMENT **PLAN** SCALE: 1" = 30'

KEYNOTES

101 REMOVE AND REINSTALL EXISTING SIGNS 102 PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES 103 EXISTING WATER MAIN 104 REMOVAL OF PAVEMENT, AC/PCC 105 2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER 106 EXST WATER LINES, VALVES, AND METERS TO BE REMOVED 107 ASPHALT PAVEMENT SAW CUTTING (FULL DEPTH) 108 REMOVAL OF CURB 109 REMOVAL OF PIPE (STORM SEWER) 110 REMOVAL OF STRUCTURE (STORM SEWER) 11 REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN 12 VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMOVE AND REPLACE IN KIND COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL 14 CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600 GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION 152 | EXISTING RETAINING WALL. AVOID EXCAVATION ALONG WALL- FILL IS ACCEPTABLE 153 EMBEDMENT AND BOTTOM FACE OF WALL VARIES WITH WALL HEIGHT PER

154 TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT 155 INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL

156 INSTALL W-BEAM GUARDRAIL TYPE 2A PER DETAILS 3 & 4/C501

160 | KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW

200 INSTALL STOP AND STREET SIGNS PER DETAIL 5/C500 (BY CITY) 201 INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY)

202 INSTALL 3-CUSHION SPEED BUMP WITH STRIPING PER DETAIL 1,2/C501

203 INSTALL CROSSWALK STRIPING PER DETAIL 5/C502

204 INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500

205 INSTALL ROLLED CURB AND GUTTER PER DETAIL 1/C500

206 INSTALL 18" VALLEY GUTTER PER DETAIL 4/C500 400 MINOR ADJUSTMENT OF MANHOLES (SANITARY SEWER TO FINISH GRADE)

500 INSTALL WATER MAIN WITH 3' MINIMUM COVER

501 INSTALL WATER ASSEMBLY. THRUST BLOCKS REQUIRED AT BENDS, TEES, AND TRANSITIONS

502 CONNECT TO EXISTING WATER MAIN PIPE

503 CONNECT TO EXISTING WATER MAIN FITTING 504 INSTALL BENDS OR DEFLECT AS NEEDED PER MANUFACTURER'S

RECOMMENDATIONS

505 | INSTALL CARV PER DETAIL 5/C506 506 INSTALL HYDRANT ASSEMBLY PER DETAIL

507 CAP EXISTING PIPE TEE AND ADD THRUST BLOCK

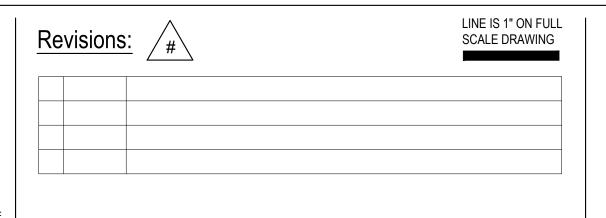
508 PROVIDE 18" SEPARATION BETWEEN WATER AND STORM OR SANITARY PIPE. SEE DETAIL 2/C505

ISSUED FOR ENGINEERING PLANS

KEY MAP SCALE: NTS

Know what's **below.** Call before you dig.

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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025 **GRADING PLAN**

Project Manager MRL
Drawn by DTT
Checked by TWT

174' VC PVI STA:2+77.37 PVI EL:65.67 K:61.9 HP STA:3+64.21 HP EL:70.61 PVI STA:0+17.79 PVI EL:51.12 K:5.0 LP STA:0+19 48 CLASSIC STREET 43' VC PVI STA:1+22.05 STA: 3+06.3, OFF: 0.0 RIDGE DRIVE — STA: 60+97.8, OFF: 0.0 R PVI EL:52.49 K:6.0 ELEV: 67.1 LP STA:1+00.61 LP EL:52.21 103 8" PVC C900 -STA: 3+40.02 12" STORM INV: 63.41 **50** STA: 0+22.96 -(500) 10" HDPE SDR 14 - EXST GROUND 12" STORM INV: 48.73 PROPOSED GRADE 1+00 1+50 2+00 2+50 3+00 3+50 4+00 5+00 5+50 6+00 6+50 7+00

101	REMOVE AND REINSTALL EXISTING SIGNS
102	PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES
103	EXISTING WATER MAIN
104	REMOVAL OF PAVEMENT, AC/PCC
105	2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER DETAIL 6/C100
106	EXST WATER LINES, VALVES, AND METERS TO BE REMOVED
107	ASPHALT PAVEMENT SAW CUTTING (FULL DEPTH)
108	REMOVAL OF CURB
109	REMOVAL OF PIPE (STORM SEWER)
110	REMOVAL OF STRUCTURE (STORM SEWER)
111	REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN
112	VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMOVE AND REPLACE IN KIND
113	COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL
114	CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS
115	GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES
150	RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600
151	GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION
152	EXISTING RETAINING WALL. AVOID EXCAVATION ALONG WALL- FILL IS ACCEPTABLE
153	EMBEDMENT AND BOTTOM FACE OF WALL VARIES WITH WALL HEIGHT PER GEOTECH
154	TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT
155	INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL
156	INSTALL W-BEAM GUARDRAIL TYPE 2A PER DETAILS 3 & 4/C501
160	KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW
200	INSTALL STOP AND STREET SIGNS PER DETAIL 5/C500 (BY CITY)
201	INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY)
202	INSTALL 3-CUSHION SPEED BUMP WITH STRIPING PER DETAIL 1,2/C501
203	INSTALL CROSSWALK STRIPING PER DETAIL 5/C502
204	INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500
205	INSTALL ROLLED CURB AND GUTTER PER DETAIL 1/C500
206	INSTALL 18" VALLEY GUTTER PER DETAIL 4/C500
400	MINOR ADJUSTMENT OF MANHOLES (SANITARY SEWER TO FINISH GRADE)
500	INSTALL WATER MAIN WITH 3' MINIMUM COVER
501	INSTALL WATER ASSEMBLY. THRUST BLOCKS REQUIRED AT BENDS, TEES, AND TRANSITIONS
502	CONNECT TO EXISTING WATER MAIN PIPE
503	CONNECT TO EXISTING WATER MAIN FITTING
504	INSTALL BENDS OR DEFLECT AS NEEDED PER MANUFACTURER'S RECOMMENDATIONS
505	INSTALL CARV PER DETAIL 5/C506
506	INSTALL HYDRANT ASSEMBLY PER DETAIL

508 PROVIDE 18" SEPARATION BETWEEN WATER AND STORM OR SANITARY PIPE. SEE

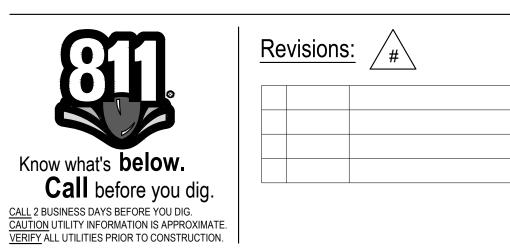
507 CAP EXISTING PIPE TEE AND ADD THRUST BLOCK

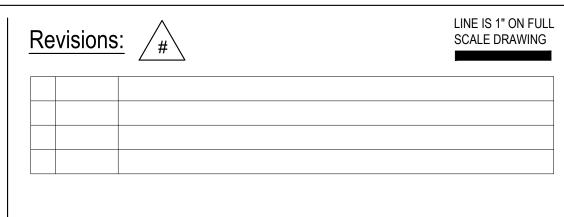
DETAIL 2/C505

KEY MAP SCALE: NTS

PROFILE

SCALE: 1" = 30' HORIZONTAL 1" = 15' VERTICAL







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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025 ROAD AND UTILITY PLAN AND PROFILE

Project Manager MRL
Drawn by DTT
Checked by TWT

ISSUED FOR ENGINEERING PLANS - BID SET

Revisions:

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SCALE DRAWING

Ridgefield, WA

WINDSOR

Duluth + Minneapolis, MN

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ISSUED FOR ENGINEERING PLANS - BID SET

ROAD AND UTILITY PLAN AND PROFILE

Project Manager MRL
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MANZANITA CLASSIC STREET

MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

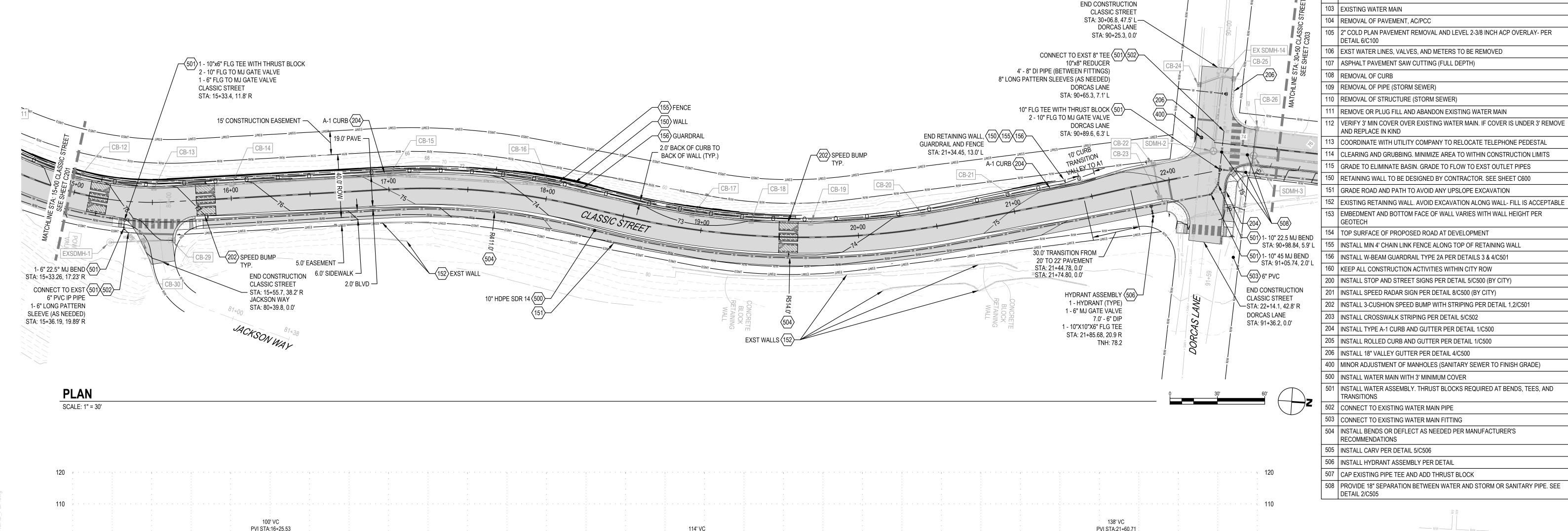
167 SOUTH 5TH STREET

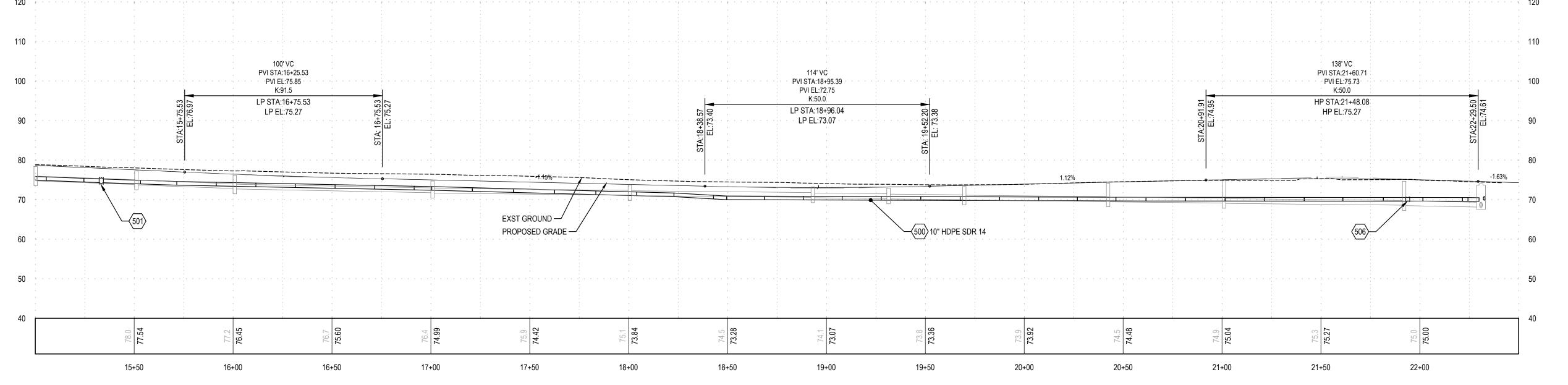
Project No: 24231

Issue Date: 4/11/2025

KEYNOTES

101 REMOVE AND REINSTALL EXISTING SIGNS





SCALE: NTS

KEY MAP

KEYNOTES

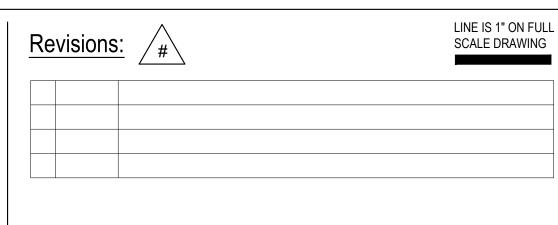
101 REMOVE AND REINSTALL EXISTING SIGNS

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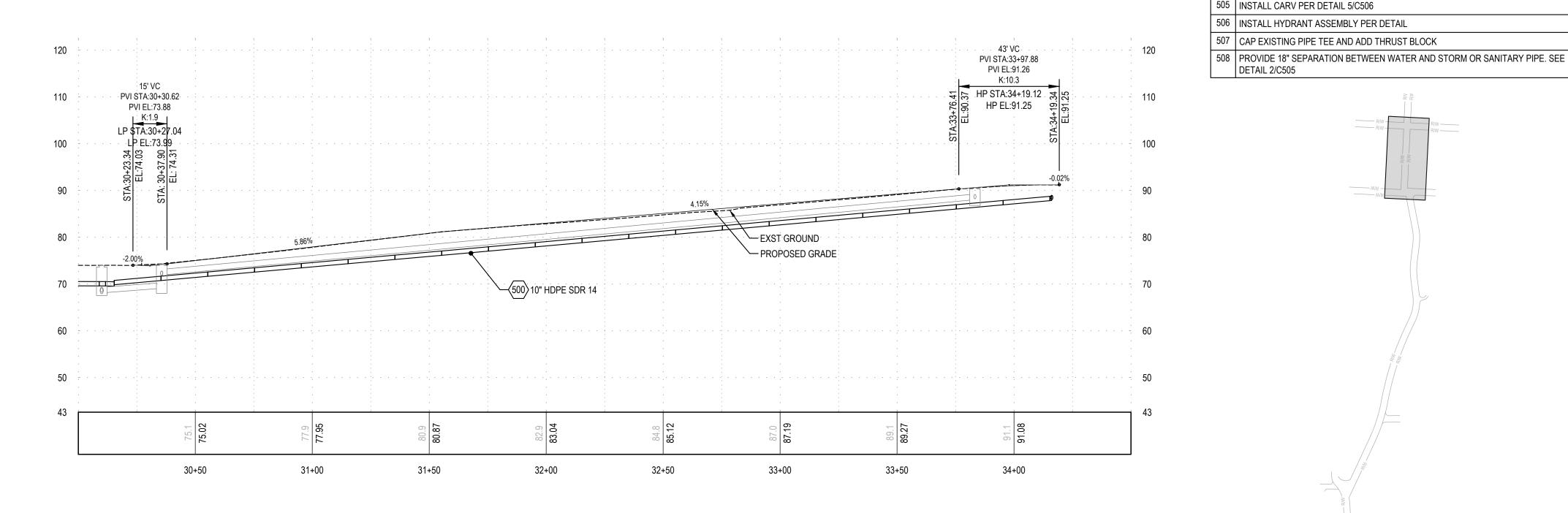
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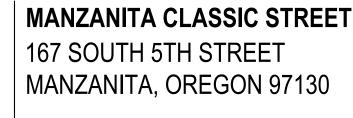
LINE IS 1" ON FULL

SCALE DRAWING

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PROFILE





ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025 Project Manager MRL
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ROAD AND UTILITY PLAN AND PROFILE

KEY MAP

SCALE: NTS

KEYNOTES

103 EXISTING WATER MAIN

108 REMOVAL OF CURB

104 REMOVAL OF PAVEMENT, AC/PCC

109 REMOVAL OF PIPE (STORM SEWER)

AND REPLACE IN KIND

110 REMOVAL OF STRUCTURE (STORM SEWER)

101 REMOVE AND REINSTALL EXISTING SIGNS

102 PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES

106 EXST WATER LINES, VALVES, AND METERS TO BE REMOVED

111 REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN

151 GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION

155 INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL

156 INSTALL W-BEAM GUARDRAIL TYPE 2A PER DETAILS 3 & 4/C501

200 INSTALL STOP AND STREET SIGNS PER DETAIL 5/C500 (BY CITY)

202 | INSTALL 3-CUSHION SPEED BUMP WITH STRIPING PER DETAIL 1,2/C501

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501 INSTALL WATER ASSEMBLY. THRUST BLOCKS REQUIRED AT BENDS, TEES, AND

504 INSTALL BENDS OR DEFLECT AS NEEDED PER MANUFACTURER'S

160 | KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW

201 INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY)

204 INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500

205 INSTALL ROLLED CURB AND GUTTER PER DETAIL 1/C500

203 INSTALL CROSSWALK STRIPING PER DETAIL 5/C502

206 INSTALL 18" VALLEY GUTTER PER DETAIL 4/C500

500 INSTALL WATER MAIN WITH 3' MINIMUM COVER

502 | CONNECT TO EXISTING WATER MAIN PIPE 503 CONNECT TO EXISTING WATER MAIN FITTING

TRANSITIONS

DETAIL 2/C505

RECOMMENDATIONS

154 TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT

107 ASPHALT PAVEMENT SAW CUTTING (FULL DEPTH)

105 2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER

12 VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMOVE

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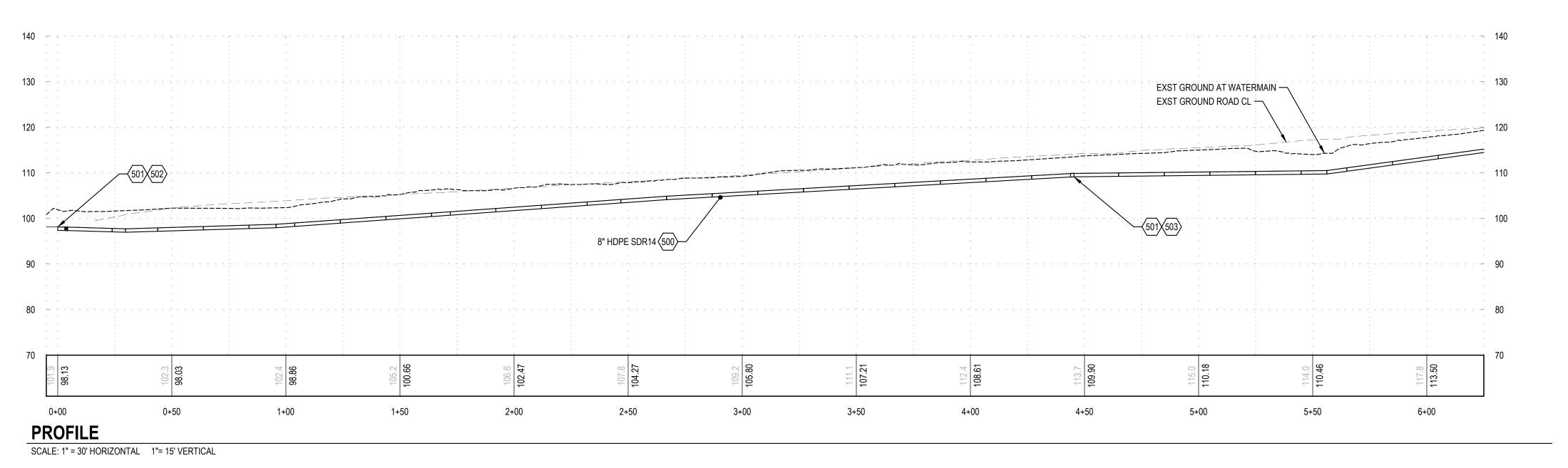
13 COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL 114 CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS

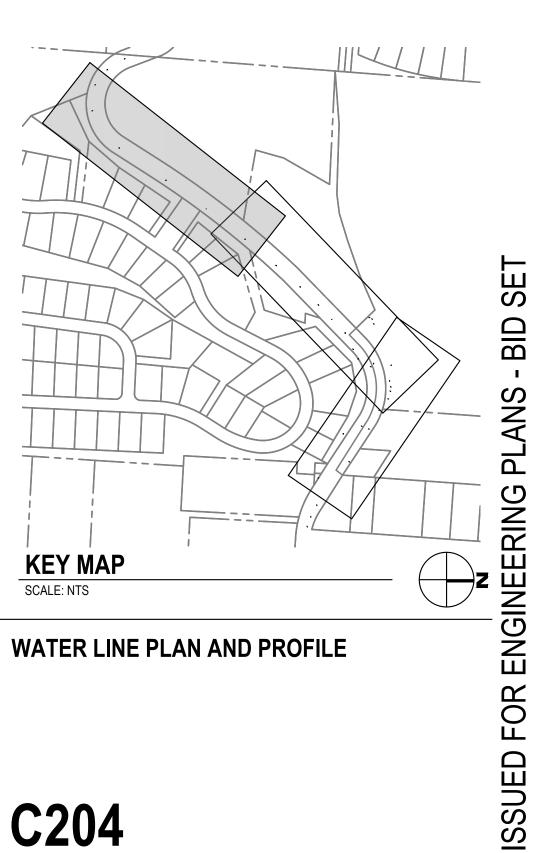
15 GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES 150 RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600

ISSUED FOR ENGINEERING PLANS

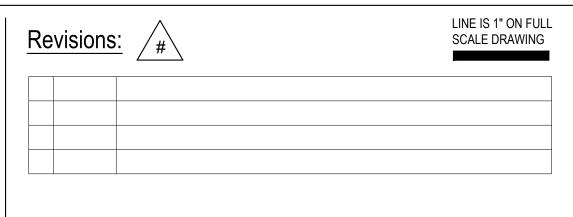
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KEYNOTES











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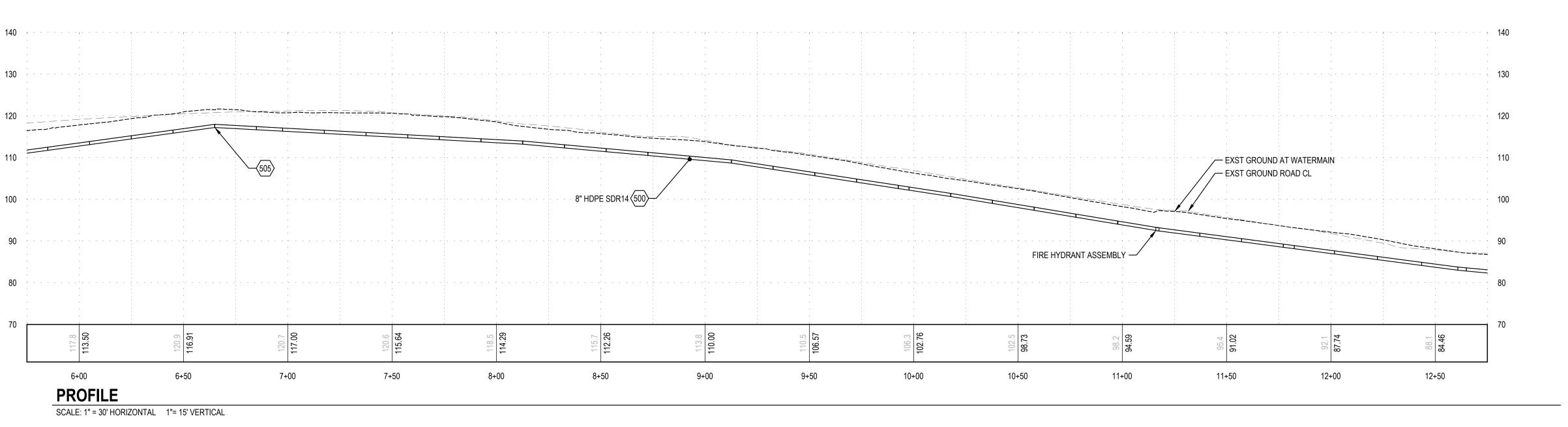
MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

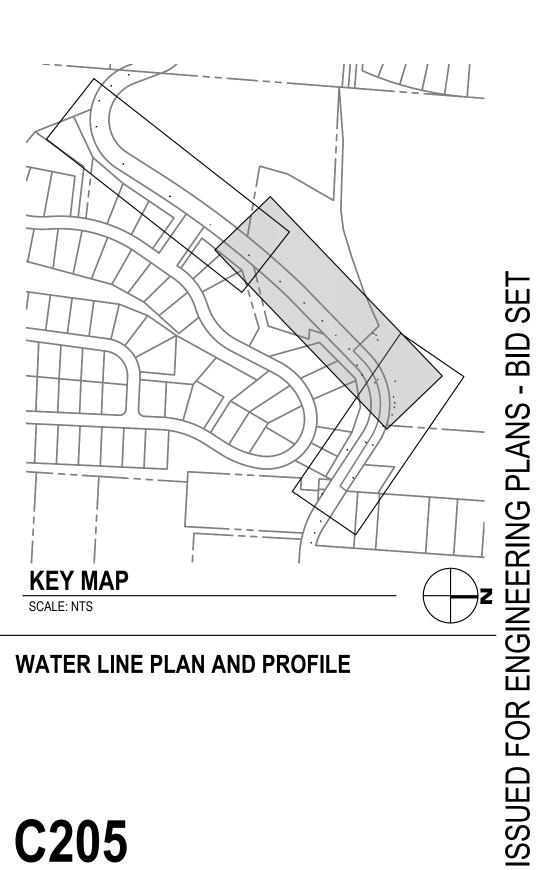
ENGINEERING PLANS - BID SET

Project No: 24231 | Issue Date: 4/11/2025

WATER LINE PLAN AND PROFILE

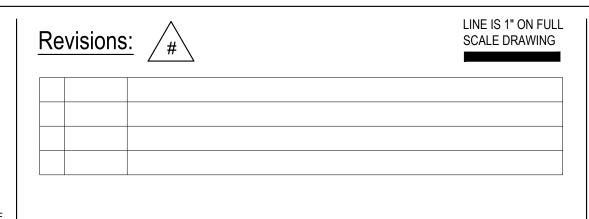
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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025

WATER LINE PLAN AND PROFILE

KEYNOTES 101 REMOVE AND REINSTALL EXISTING SIGNS 102 PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES 103 EXISTING WATER MAIN 104 REMOVAL OF PAVEMENT, AC/PCC 105 2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER 106 EXST WATER LINES, VALVES, AND METERS TO BE REMOVED 107 ASPHALT PAVEMENT SAW CUTTING (FULL DEPTH) 108 REMOVAL OF CURB 109 REMOVAL OF PIPE (STORM SEWER) 110 REMOVAL OF STRUCTURE (STORM SEWER) 111 REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN 112 VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMOVE AND REPLACE IN KIND 113 COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL 114 CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS 115 GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES 150 RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600 151 GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION 152 EXISTING RETAINING WALL. AVOID EXCAVATION ALONG WALL- FILL IS ACCEPTABLE 153 | EMBEDMENT AND BOTTOM FACE OF WALL VARIES WITH WALL HEIGHT PER 154 TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT 155 INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL 156 INSTALL W-BEAM GUARDRAIL TYPE 2A PER DETAILS 3 & 4/C501 160 KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW 200 INSTALL STOP AND STREET SIGNS PER DETAIL 5/C500 (BY CITY) 201 INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY) 202 INSTALL 3-CUSHION SPEED BUMP WITH STRIPING PER DETAIL 1,2/C501

203 INSTALL CROSSWALK STRIPING PER DETAIL 5/C502

206 INSTALL 18" VALLEY GUTTER PER DETAIL 4/C500

500 INSTALL WATER MAIN WITH 3' MINIMUM COVER

502 CONNECT TO EXISTING WATER MAIN PIPE 503 CONNECT TO EXISTING WATER MAIN FITTING

506 INSTALL HYDRANT ASSEMBLY PER DETAIL

507 CAP EXISTING PIPE TEE AND ADD THRUST BLOCK

TRANSITIONS

DETAIL 2/C505

RECOMMENDATIONS

505 INSTALL CARV PER DETAIL 5/C506

204 INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500

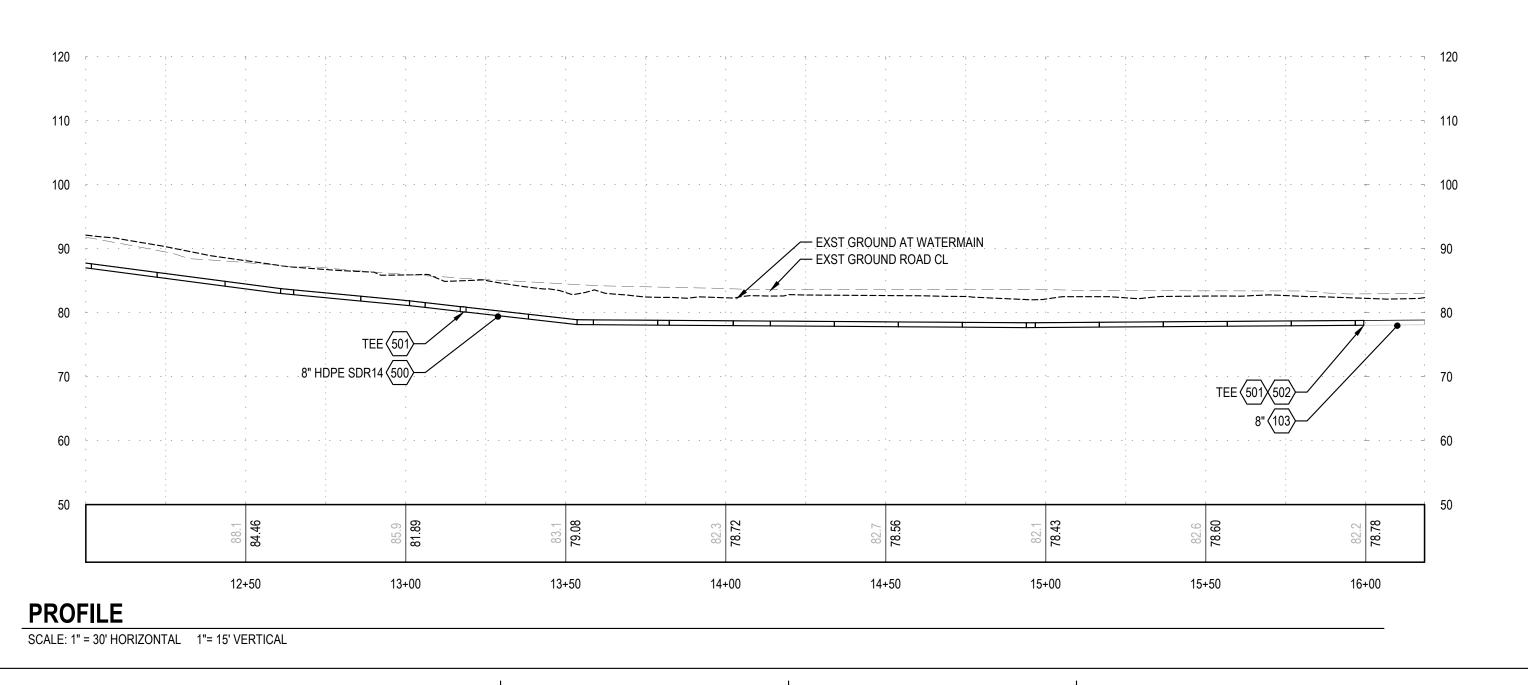
205 INSTALL ROLLED CURB AND GUTTER PER DETAIL 1/C500

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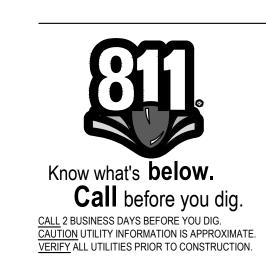
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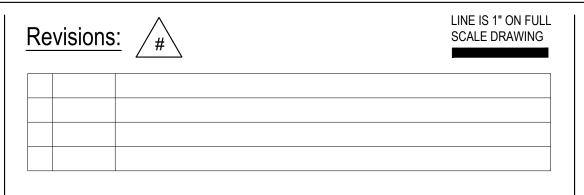
508 PROVIDE 18" SEPARATION BETWEEN WATER AND STORM OR SANITARY PIPE. SEE



BID SET PLANS FOR ENGINEERING F **KEY MAP** SCALE: NTS

ISSUED







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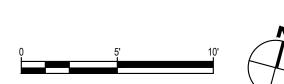
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ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025 Project Manager MRL
Drawn by DTT
Checked by TWT

WATER LINE PLAN AND PROFILE

PLAN SCALE: 1" = 5'





KEYNOTES

103 EXISTING WATER MAIN

DETAIL 6/C100

108 REMOVAL OF CURB

104 REMOVAL OF PAVEMENT, AC/PCC

109 REMOVAL OF PIPE (STORM SEWER)

AND REPLACE IN KIND

110 REMOVAL OF STRUCTURE (STORM SEWER)

101 REMOVE AND REINSTALL EXISTING SIGNS

102 PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES

106 EXST WATER LINES, VALVES, AND METERS TO BE REMOVED

111 REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN

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105 2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER

112 VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMOVE

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153 EMBEDMENT AND BOTTOM FACE OF WALL VARIES WITH WALL HEIGHT PER

155 INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL

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160 KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW

201 INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY)

204 INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500

205 INSTALL ROLLED CURB AND GUTTER PER DETAIL 1/C500

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503 CONNECT TO EXISTING WATER MAIN FITTING

TRANSITIONS

DETAIL 2/C505

RECOMMENDATIONS

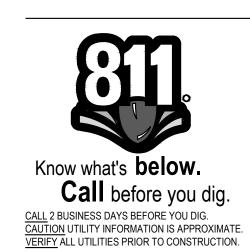
505 | INSTALL CARV PER DETAIL 5/C506

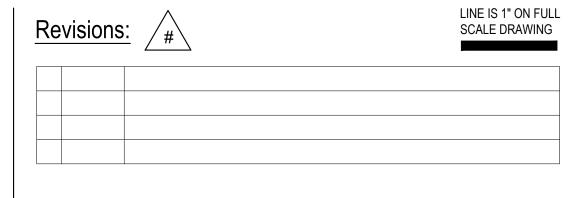
113 COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL 114 CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS

115 GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES 150 RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600

151 GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION

154 TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT







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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

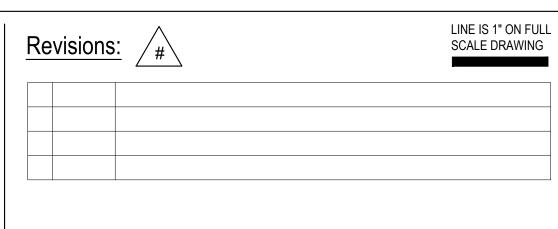
Project No: 24231 Issue Date: 4/11/2025

Project Manager MRL
Drawn by DTT
Checked by TWT

INTERSECTION PLANS -NECARNEY CITY ROAD AND CLASSIC STREET

ISSUED FOR ENGINEERING PLANS







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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025

Project Manager MRL
Drawn by DTT
Checked by TWT

INTERSECTION PLANS - CLASSIC STREET AND RIDGE DRIVE

ISSUED FOR ENGINEERING PLANS

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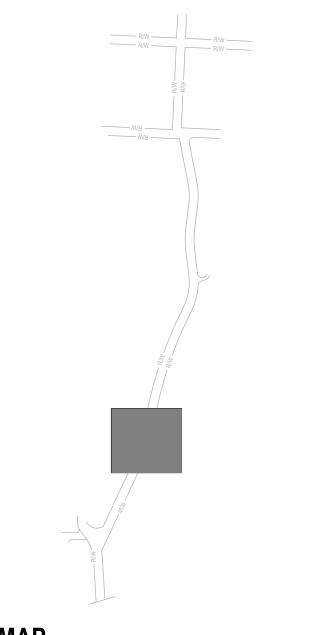
Call 2 BUSINESS DAYS BEFORE YOU DIG.
CAUTION UTILITY INFORMATION IS APPROXIMATE.
VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

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KEYNOTES

PVI STA:69+90.42

101 REMOVE AND REINSTALL EXISTING SIGNS 102 PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES 103 EXISTING WATER MAIN 104 REMOVAL OF PAVEMENT, AC/PCC 105 2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER 106 EXST WATER LINES, VALVES, AND METERS TO BE REMOVED 107 ASPHALT PAVEMENT SAW CUTTING (FULL DEPTH) 108 REMOVAL OF CURB 109 REMOVAL OF PIPE (STORM SEWER) 110 REMOVAL OF STRUCTURE (STORM SEWER) 11 REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN 12 VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMOVE AND REPLACE IN KIND 113 COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL 114 | CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS 115 GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES 150 RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600 51 GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION 152 EXISTING RETAINING WALL. AVOID EXCAVATION ALONG WALL- FILL IS ACCEPTABLE 153 EMBEDMENT AND BOTTOM FACE OF WALL VARIES WITH WALL HEIGHT PER 154 TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT 155 INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL 156 INSTALL W-BEAM GUARDRAIL TYPE 2A PER DETAILS 3 & 4/C501 160 KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW 200 INSTALL STOP AND STREET SIGNS PER DETAIL 5/C500 (BY CITY) 201 INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY) 202 INSTALL 3-CUSHION SPEED BUMP WITH STRIPING PER DETAIL 1,2/C501 203 INSTALL CROSSWALK STRIPING PER DETAIL 5/C502 204 INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500



ENGINEERING PLANS

ISSUED FOR

INTERSECTION PLANS - CLASSIC STREET

Project Manager MRL
Drawn by DTT
Checked by TWT

MANZANITA, OREGON 97130

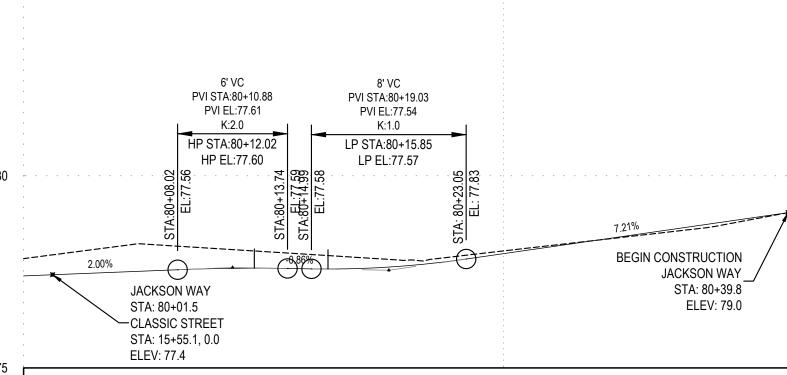
ENGINEERING PLANS - BID SET

Project No: 24231

Issue Date: 4/11/2025

AND HIGHLANDS DRIVE

C252



PROFILE - JACKSON WAY

HORIZONTAL SCALE: 1" = 5' VERTICAL SCALE: 1' = 2.5'

101	REMOVE AND REINSTALL EXISTING SIGNS				
102	PROTECT STEEP SLOPES FROM CONSTRUCTION ACTIVITIES				
103	EXISTING WATER MAIN				
104	REMOVAL OF PAVEMENT, AC/PCC				
105	2" COLD PLAN PAVEMENT REMOVAL AND LEVEL 2-3/8 INCH ACP OVERLAY- PER DETAIL 6/C100				
106	EXST WATER LINES, VALVES, AND METERS TO BE REMOVED				
107	ASPHALT PAVEMENT SAW CUTTING (FULL DEPTH)				
108	REMOVAL OF CURB				
109	REMOVAL OF PIPE (STORM SEWER)				
110	REMOVAL OF STRUCTURE (STORM SEWER)				
111	REMOVE OR PLUG FILL AND ABANDON EXISTING WATER MAIN				
112	VERIFY 3' MIN COVER OVER EXISTING WATER MAIN. IF COVER IS UNDER 3' REMOVAND REPLACE IN KIND				
113	COORDINATE WITH UTILITY COMPANY TO RELOCATE TELEPHONE PEDESTAL				
114	CLEARING AND GRUBBING. MINIMIZE AREA TO WITHIN CONSTRUCTION LIMITS				
115	GRADE TO ELIMINATE BASIN. GRADE TO FLOW TO EXST OUTLET PIPES				
150	RETAINING WALL TO BE DESIGNED BY CONTRACTOR. SEE SHEET C600				
151	GRADE ROAD AND PATH TO AVOID ANY UPSLOPE EXCAVATION				
152	EXISTING RETAINING WALL. AVOID EXCAVATION ALONG WALL- FILL IS ACCEPTABLE				
153	EMBEDMENT AND BOTTOM FACE OF WALL VARIES WITH WALL HEIGHT PER GEOTECH				
154	TOP SURFACE OF PROPOSED ROAD AT DEVELOPMENT				
155	INSTALL MIN 4' CHAIN LINK FENCE ALONG TOP OF RETAINING WALL				
156	INSTALL W-BEAM GUARDRAIL TYPE 2A PER DETAILS 3 & 4/C501				
160	KEEP ALL CONSTRUCTION ACTIVITIES WITHIN CITY ROW				
200	INSTALL STOP AND STREET SIGNS PER DETAIL 5/C500 (BY CITY)				
201	INSTALL SPEED RADAR SIGN PER DETAIL 8/C500 (BY CITY)				
202	INSTALL 3-CUSHION SPEED BUMP WITH STRIPING PER DETAIL 1,2/C501				
203	INSTALL CROSSWALK STRIPING PER DETAIL 5/C502				
204	INSTALL TYPE A-1 CURB AND GUTTER PER DETAIL 1/C500				
205	INSTALL ROLLED CURB AND GUTTER PER DETAIL 1/C500				
206	INSTALL 18" VALLEY GUTTER PER DETAIL 4/C500				
400	MINOR ADJUSTMENT OF MANHOLES (SANITARY SEWER TO FINISH GRADE)				
500	INSTALL WATER MAIN WITH 3' MINIMUM COVER				
501	INSTALL WATER ASSEMBLY. THRUST BLOCKS REQUIRED AT BENDS, TEES, AND TRANSITIONS				
502	CONNECT TO EXISTING WATER MAIN PIPE				
503	CONNECT TO EXISTING WATER MAIN FITTING				

504 INSTALL BENDS OR DEFLECT AS NEEDED PER MANUFACTURER'S

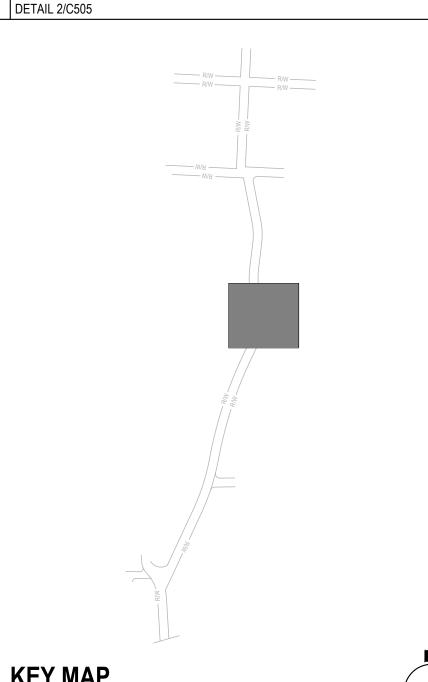
508 PROVIDE 18" SEPARATION BETWEEN WATER AND STORM OR SANITARY PIPE. SEE

RECOMMENDATIONS

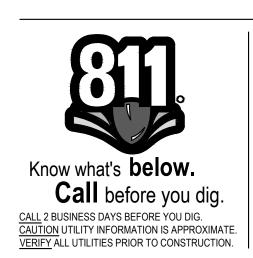
505 INSTALL CARV PER DETAIL 5/C506

506 INSTALL HYDRANT ASSEMBLY PER DETAIL

507 CAP EXISTING PIPE TEE AND ADD THRUST BLOCK



KEY MAP SCALE: NTS



LINE IS 1" ON FULL SCALE DRAWING Revisions: /#

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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

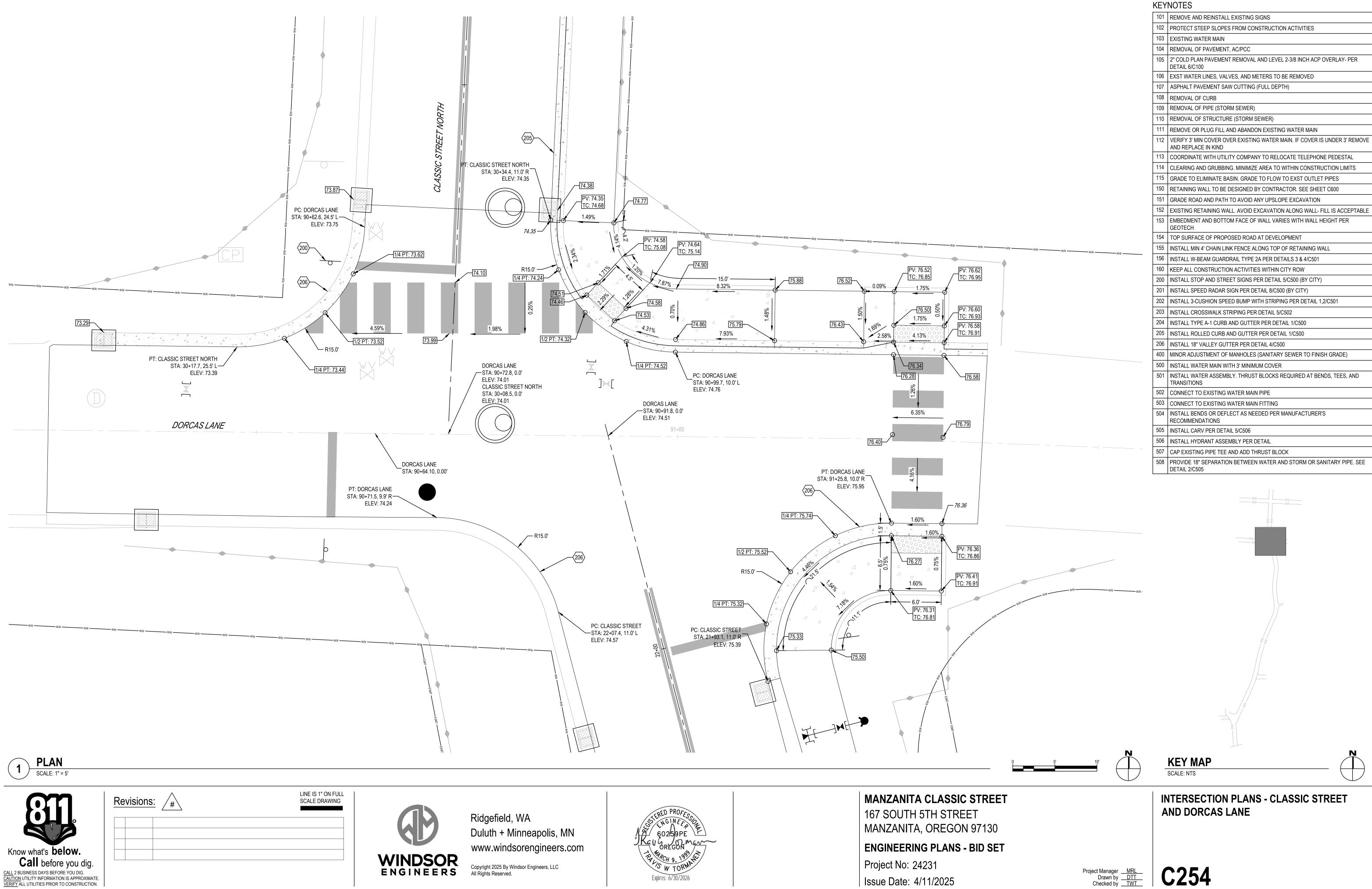
Project No: 24231 Issue Date: 4/11/2025

Project Manager MRL
Drawn by DTT
Checked by TWT

INTERSECTION PLANS - CLASSIC STREET AND JACKSON WAY

C253

ISSUED FOR ENGINEERING PLANS - BID SET



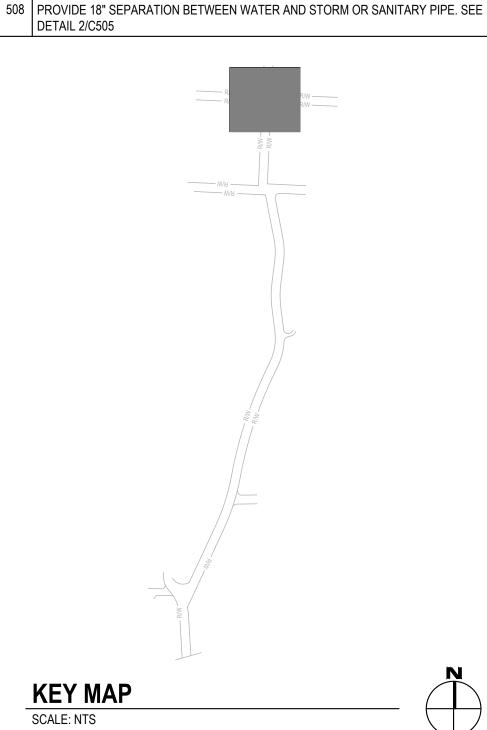
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ENGINEERING PLANS FOR

Project Manager MRL
Drawn by DTT
Checked by TWT

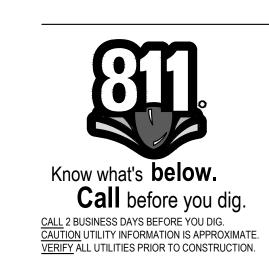
Issue Date: 4/11/2025

C254



506 INSTALL HYDRANT ASSEMBLY PER DETAIL

507 CAP EXISTING PIPE TEE AND ADD THRUST BLOCK



LINE IS 1" ON FULL SCALE DRAWING Revisions: /#



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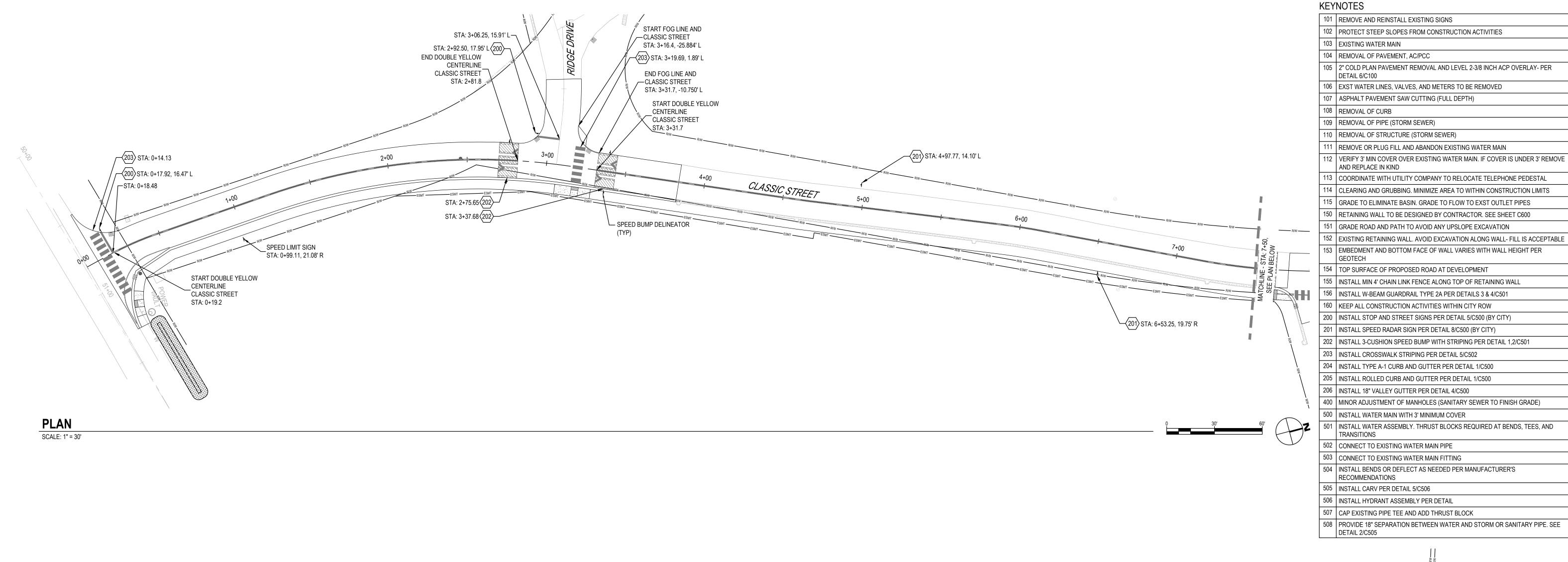
MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130 **ENGINEERING PLANS - BID SET**

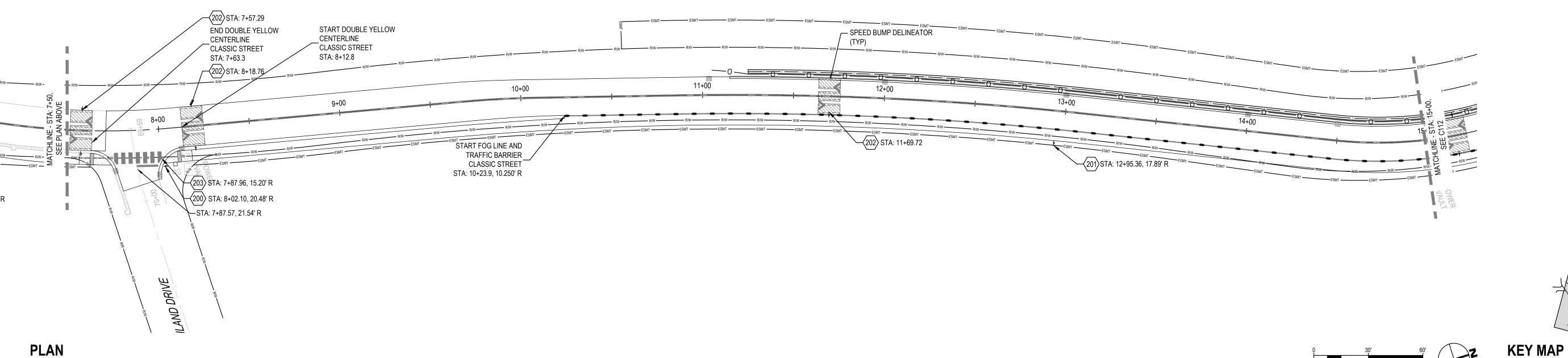
Project No: 24231 Issue Date: 4/11/2025 Project Manager MRL
Drawn by DTT
Checked by TWT

INTERSECTION PLANS - CLASSIC STREET AND LANEDA AVENUE

ISSUED FOR ENGINEERING PLANS - BID SET

C255





PLAN

SCALE: 1" = 30'

LINE IS 1" ON FULL SCALE DRAWING Revisions: /# Know what's **below.** Call before you dig.

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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

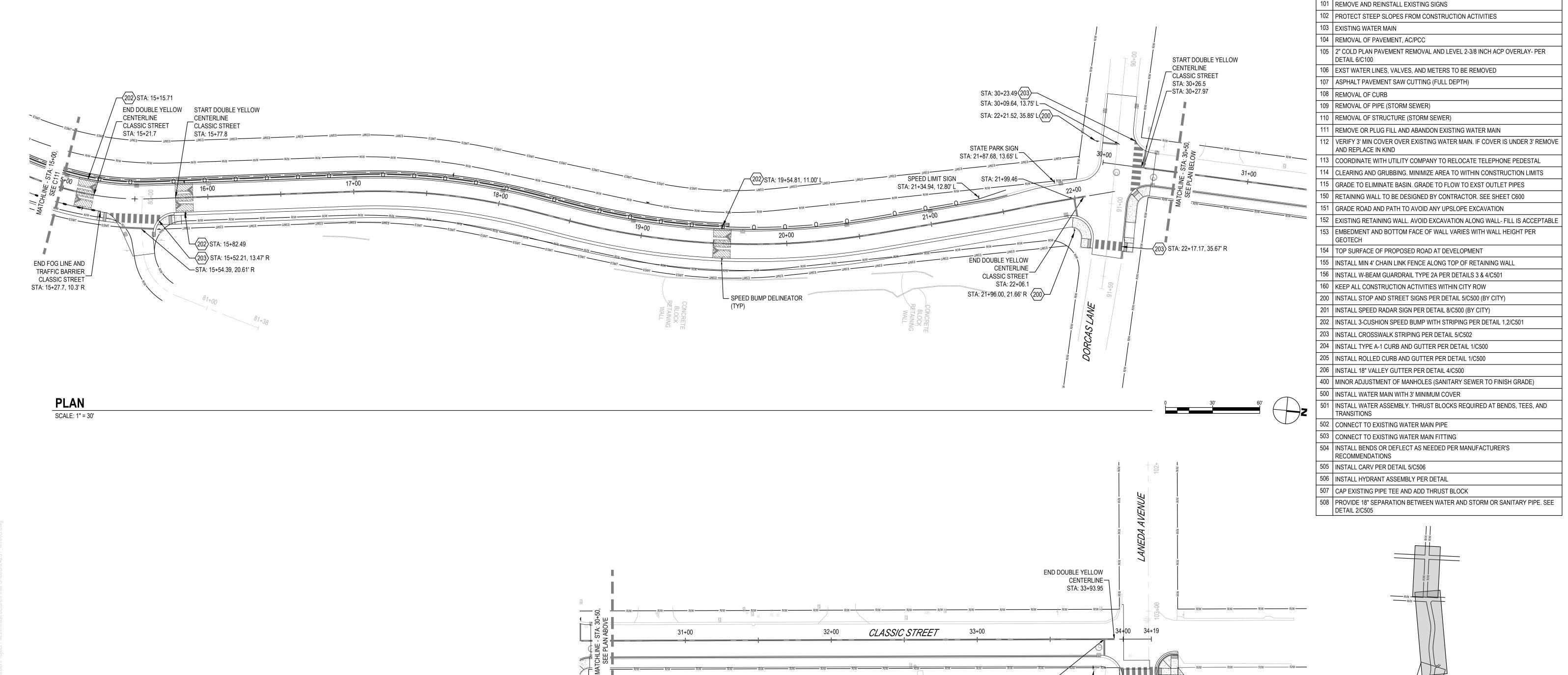
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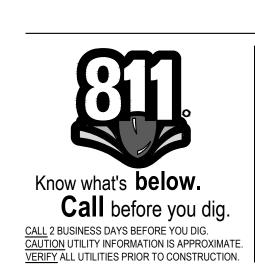
Project Manager MRL
Drawn by DTT
Checked by TWT

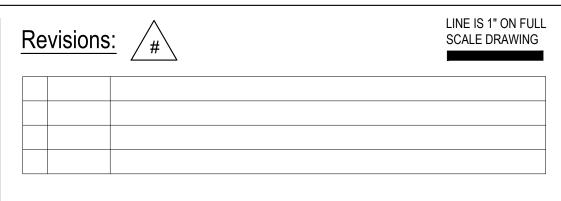
SIGNAGE AND STRIPING PLAN

C270

FOR ENGINEERING PLANS ISSUED









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PLAN

SCALE: 1" = 30'



MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231
Issue Date: 4/11/2025

STA: 33+87.09—

STA: 33+79.91, 20.31' R (200)—

STA: 34+11.17, 22.38' R (203)-

Project Manager MRL
Drawn by DTT
Checked by TWT

SIGNAGE AND STRIPING PLAN

C271

KEY MAP

KEYNOTES

ISSUED FOR ENGINEERING PLANS - BID SET

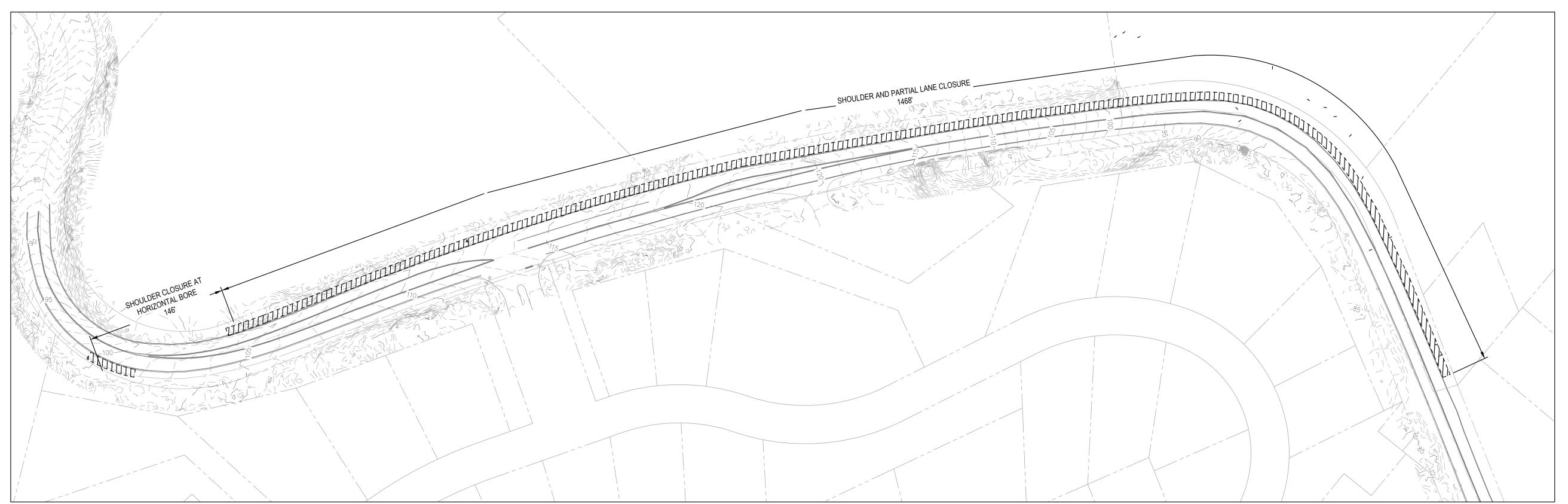
SHEET NOTES

C272

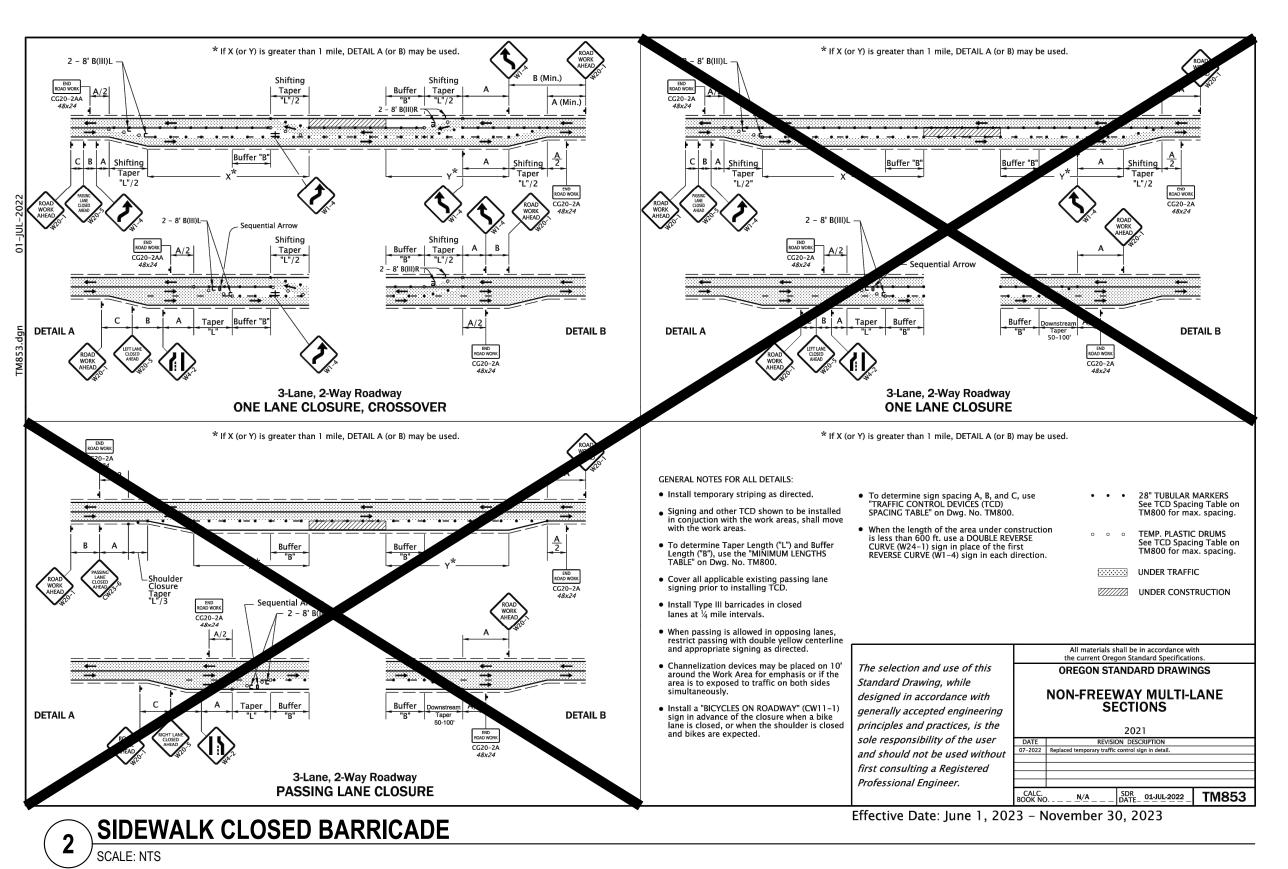
Project Manager MRL
Drawn by DTT
Checked by TWT

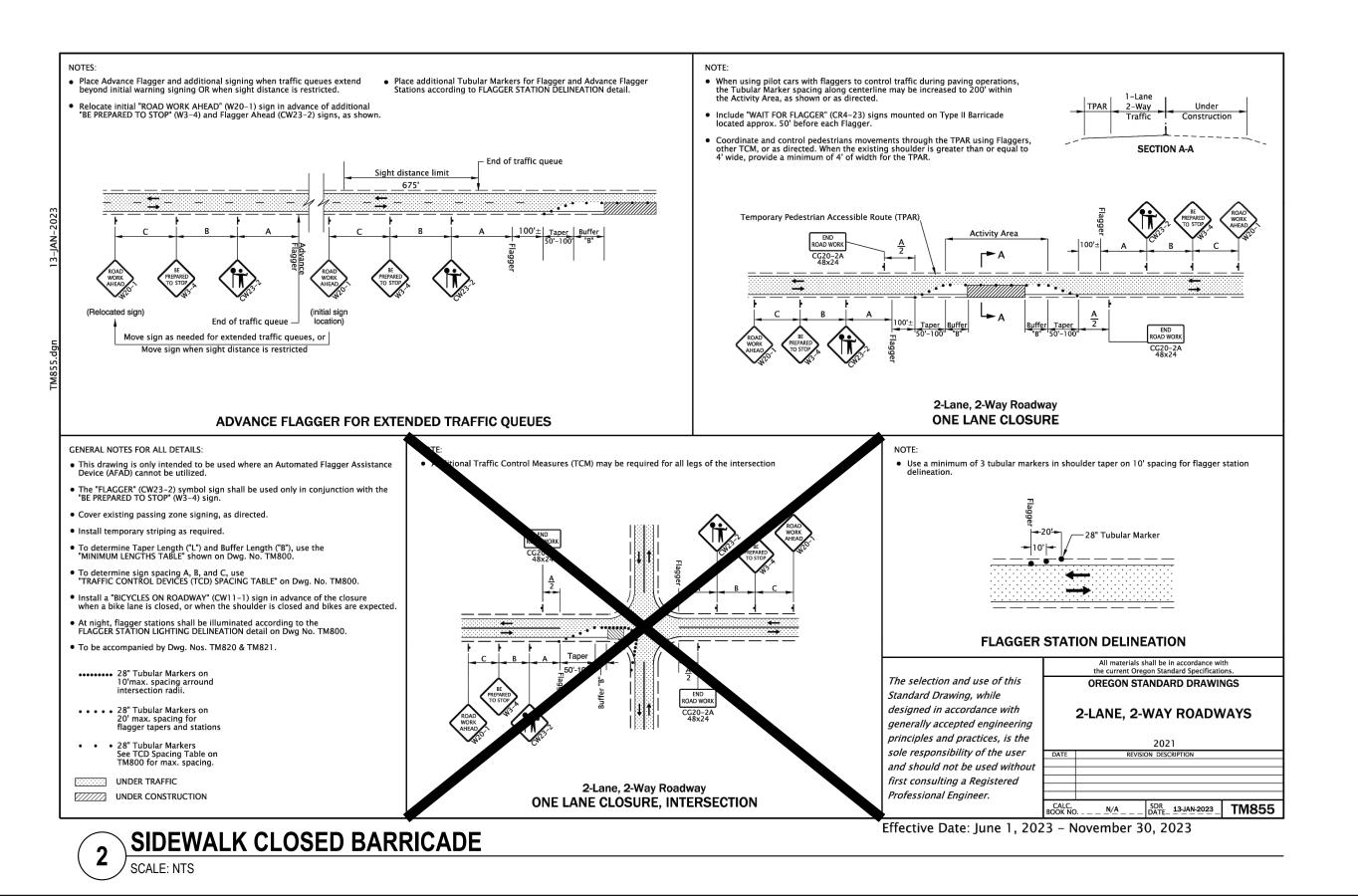
Issue Date: 4/11/2025

SHEET NOTES

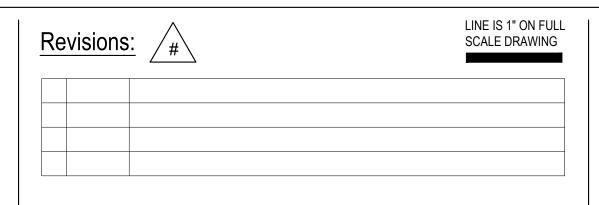


TEMPORARY TRAFFIC CONTROL PLAN











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MANZANITA CLASSIC STREET

167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025

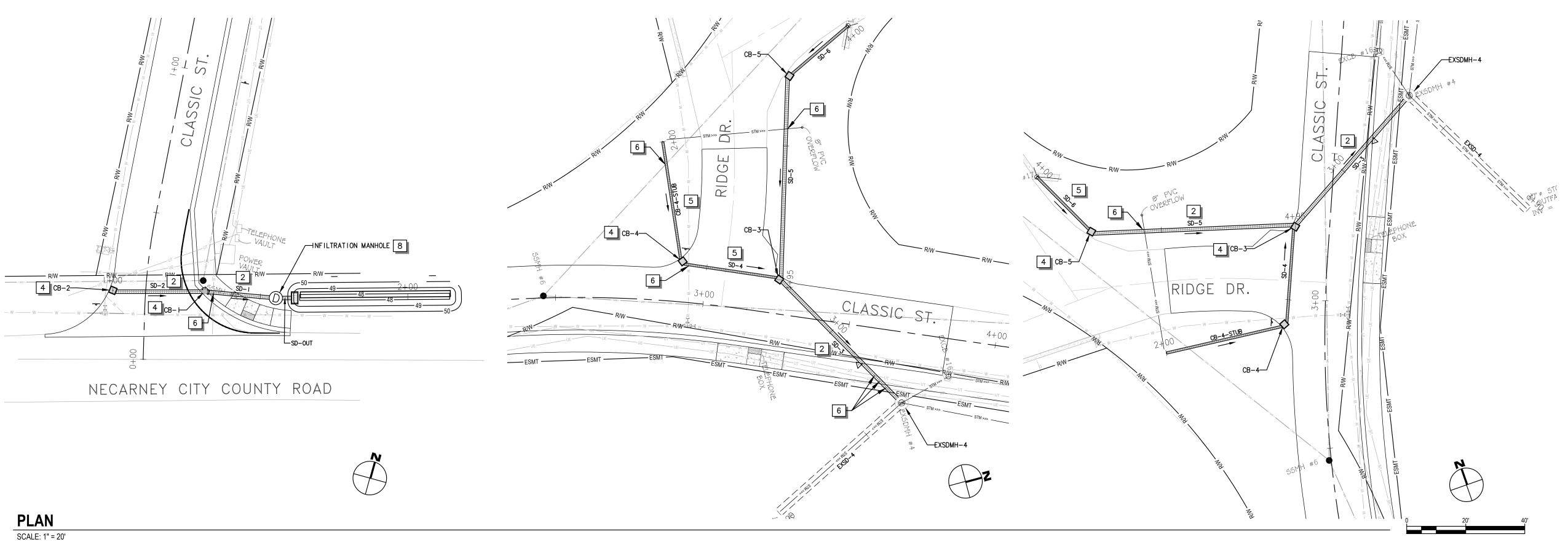
Project Manager MRL
Drawn by DTT
Checked by TWT

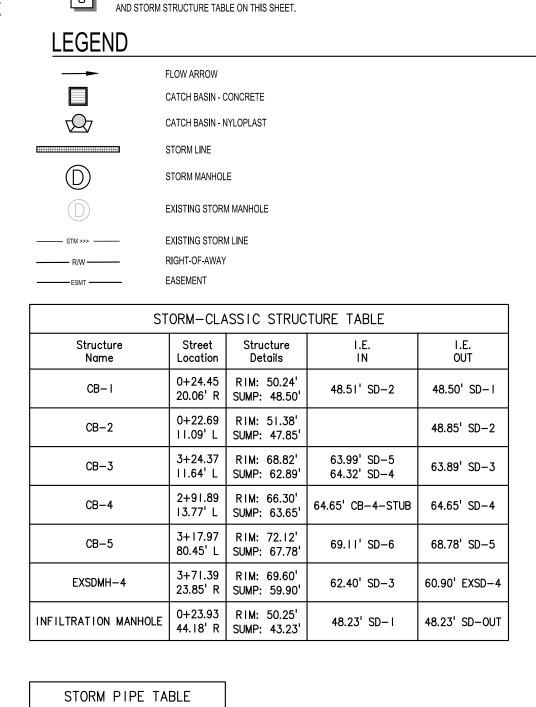
TRAFFIC CONTROL PLAN

ENGINEERING

FOR

ISSUED





CONSTRUCT 48"Ø CONCRETE STORM DRAIN MANHOLE AS PER DETAIL 2, SHEET C306 AND STORM STRUCTURE

CONSTRUCT 12"Ø HDPE STORM PIPE AS PER TRENCH DETAIL 1 SHEET C306. SEE PIPE TABLE ON THIS SHEET.

AND STORM PIPE TABLE THIS SHEET. RECONNECT PIPES WHERE SHOWN.

STRUCTURE AND STORM PIPE TABLE THIS SHEET. RECONNECT PIPES WHERE SHOWN.

CONSTRUCT NYLOPLAST CATCH BASIN WITH H20 GRATE AS PER DETAIL 4, SHEET C306. SEE STORM STRUCTURE

CONSTRUCT PRECAST CONCRETE CATCH BASIN WITH H20 GRATE AS PER DETAIL 5, SHEET C306. SEE STORM

CONSTRUCT 8"Ø HDPE STORM PIPE AS PER TRENCH DETAIL 1 SHEET C306. SEE PIPE TABLE ON THIS SHEET.

REPORT ALL FINDINGS TO ENGINEER. UTILITY SHALL BE RELOCATED BY THE CONTRACTOR DURING

UTILITY ELEVATION UNKNOWN. CONTRACTOR SHALL POTHOLE UTILITY TO DETERMINE IF CONFLICT EXISTS AND

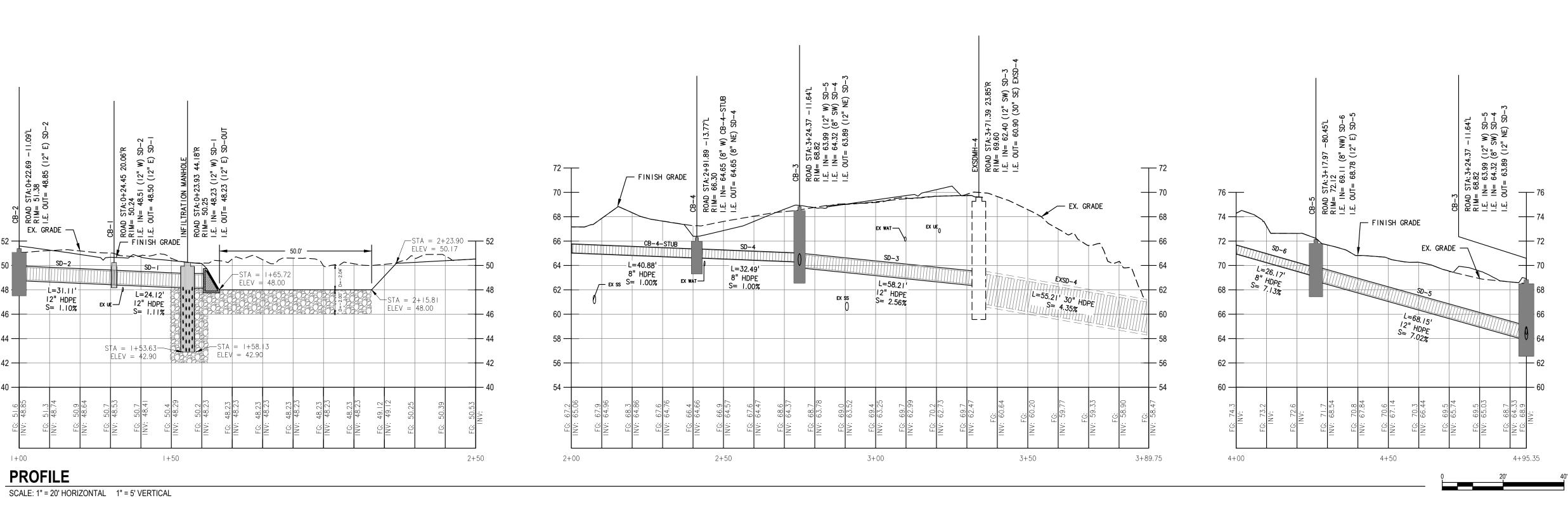
SHALL COORDINATE WITH UTILITY AGENCY AND SHALL ANTICIPATE ALL COSTS FOR UTILITY CROSSING DURING

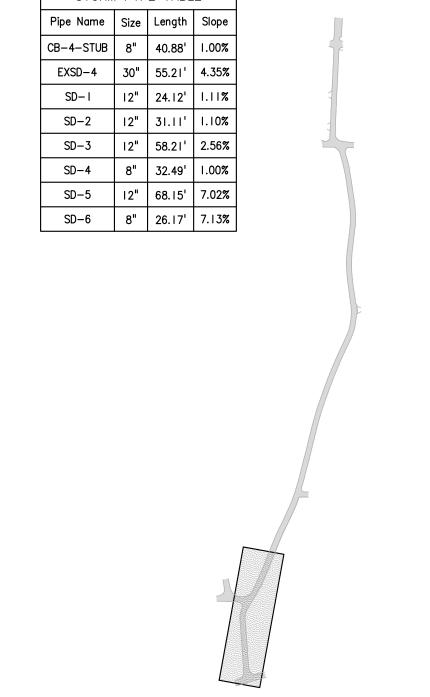
CONSTRUCT 48"Ø CONCRETE STORM DRAIN MANHOLE WITH THE INFILTRATION AS PER DETAIL 2, SHEET C306

CONSTRUCTION WITH THE ASSISTANCE OF THE UTILITY AGENCY IF UTILITY CONFLICTS OCCUR. THE CONTRACTOR

STORM

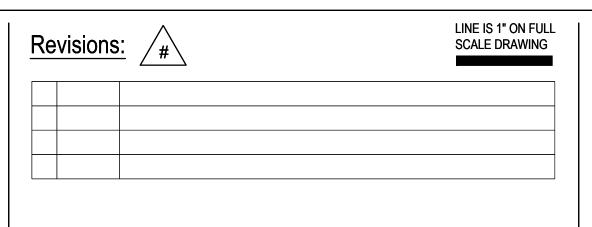
TABLE ON THIS SHEET.





KEY MAP SCALE: NTS

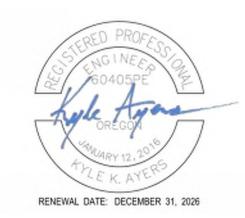






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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

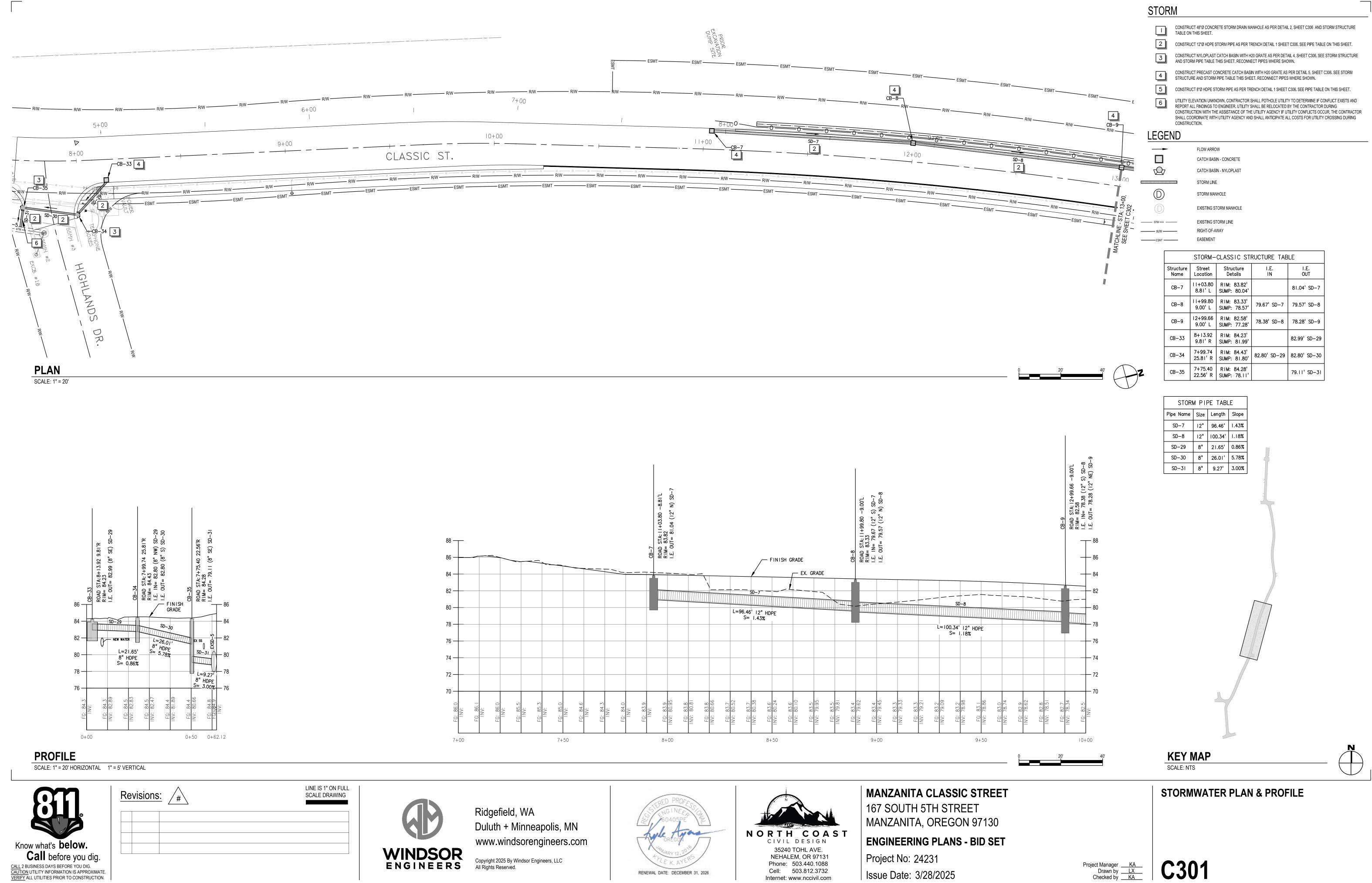
ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 3/28/2025

Project Manager KA
Drawn by LX
Checked by KA

STORMWATER PLAN & PROFILE

C300



RENEWAL DATE: DECEMBER 31, 2026

Cell: 503.812.3732

Internet: www.nccivil.com

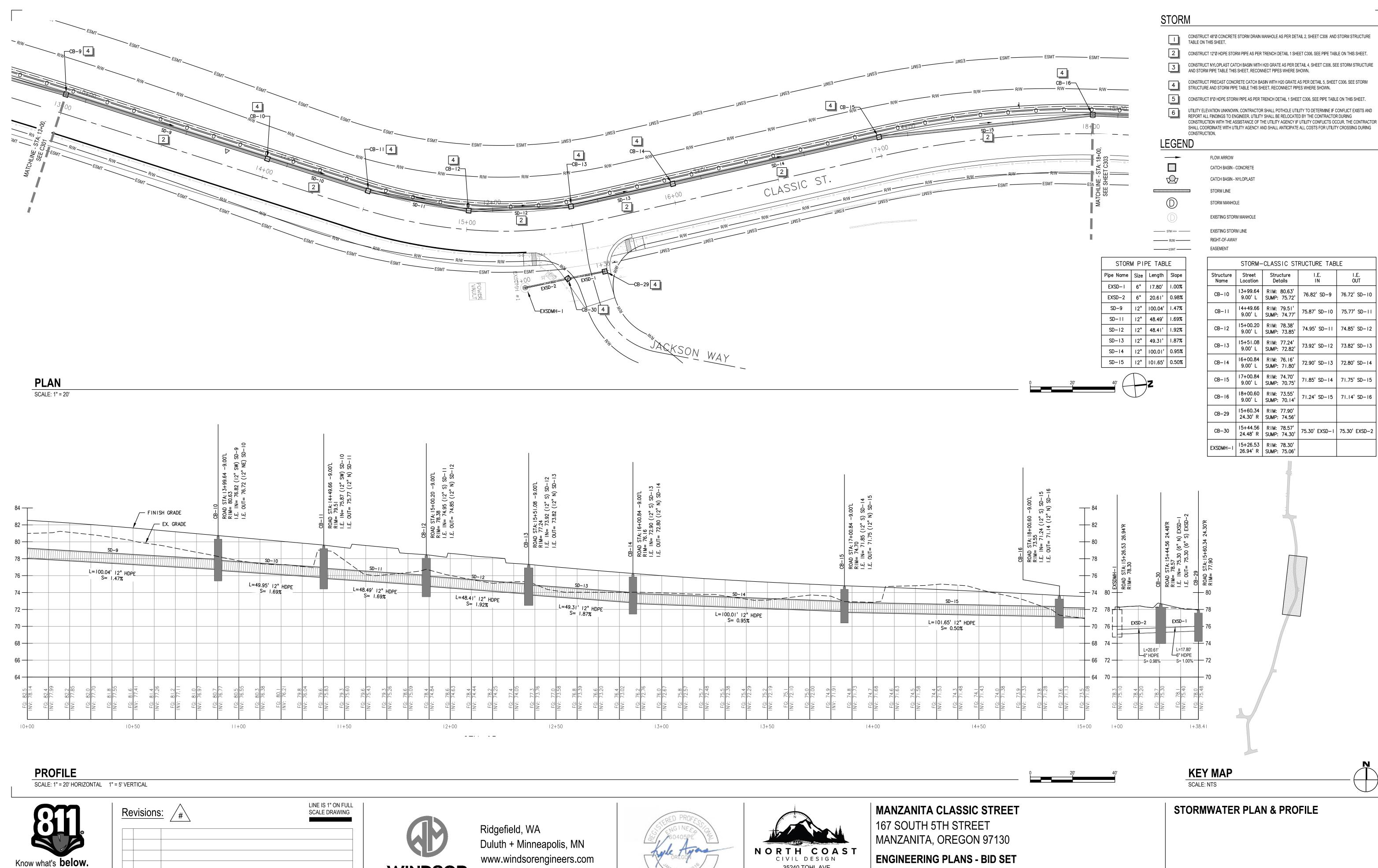
Issue Date: 3/28/2025

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ISSUED FOR ENGINEERING PLANS - BID SET

C301

Project Manager KA
Drawn by LX
Checked by KA

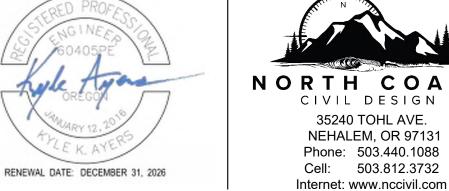


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CAUTION UTILITY INFORMATION IS APPROXIMATE.
VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

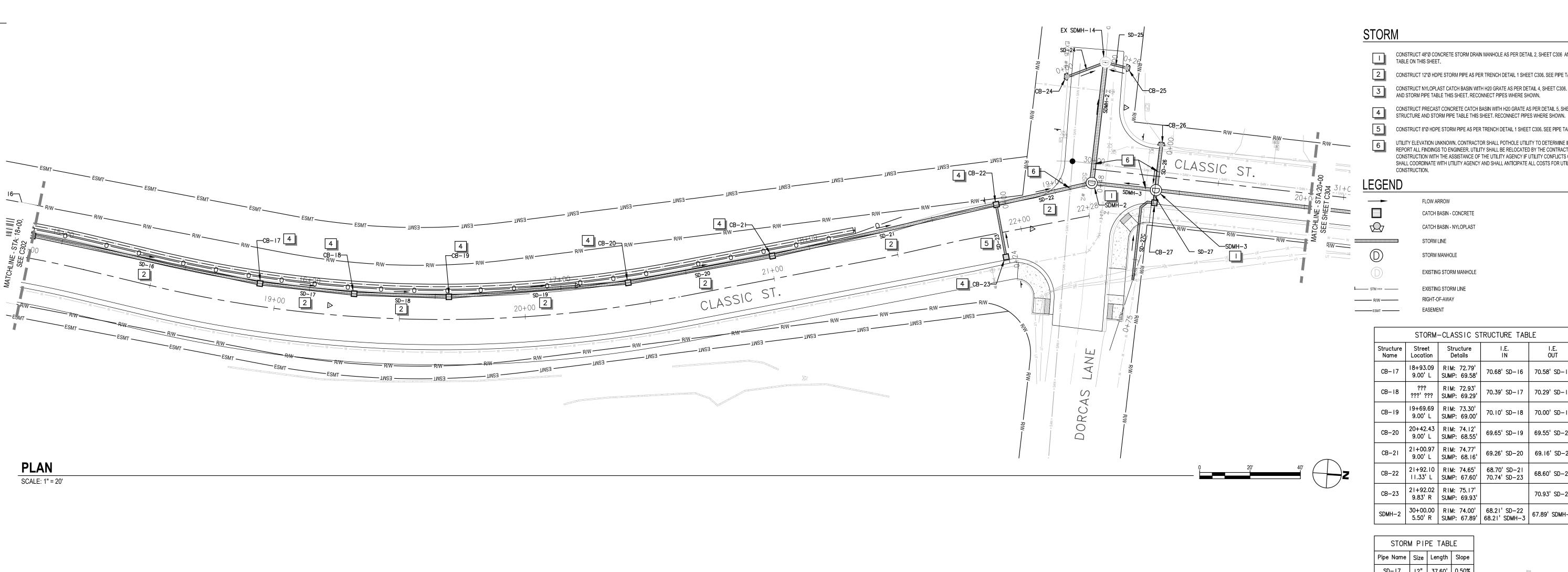
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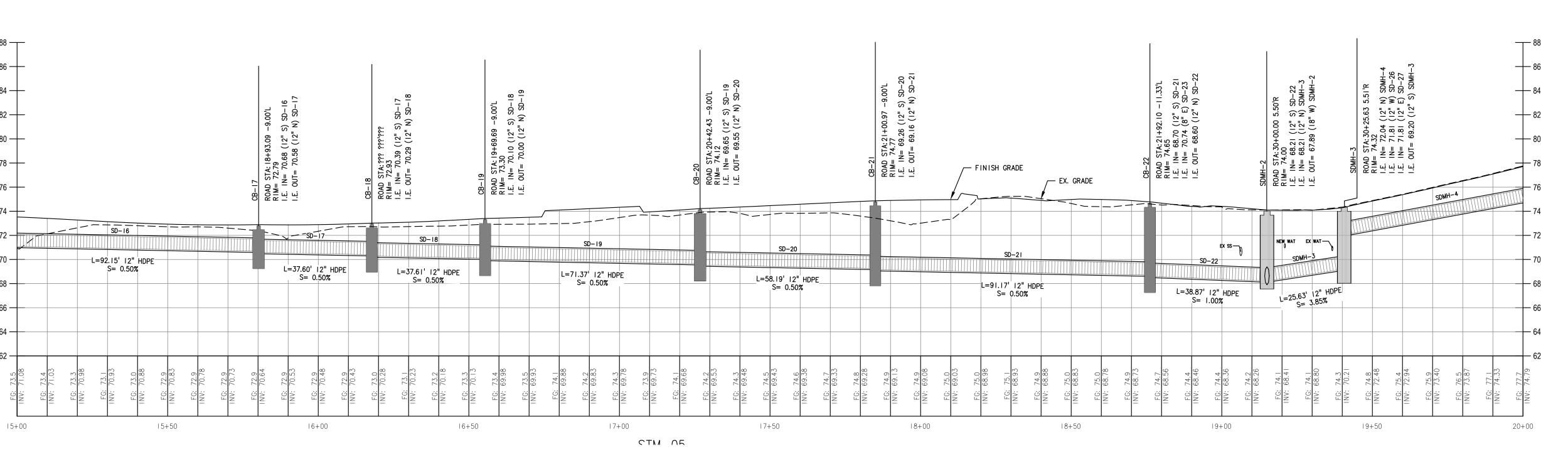


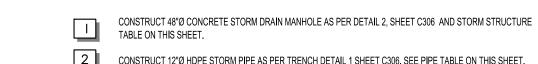
ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 3/28/2025 Project Manager KA
Drawn by LX
Checked by KA

C302







CONSTRUCT 12"Ø HDPE STORM PIPE AS PER TRENCH DETAIL 1 SHEET C306. SEE PIPE TABLE ON THIS SHEET.

CONSTRUCT NYLOPLAST CATCH BASIN WITH H20 GRATE AS PER DETAIL 4, SHEET C306. SEE STORM STRUCTURE

AND STORM PIPE TABLE THIS SHEET. RECONNECT PIPES WHERE SHOWN. CONSTRUCT PRECAST CONCRETE CATCH BASIN WITH H20 GRATE AS PER DETAIL 5, SHEET C306. SEE STORM

CONSTRUCT 8"Ø HDPE STORM PIPE AS PER TRENCH DETAIL 1 SHEET C306. SEE PIPE TABLE ON THIS SHEET.

UTILITY ELEVATION UNKNOWN. CONTRACTOR SHALL POTHOLE UTILITY TO DETERMINE IF CONFLICT EXISTS AND REPORT ALL FINDINGS TO ENGINEER. UTILITY SHALL BE RELOCATED BY THE CONTRACTOR DURING CONSTRUCTION WITH THE ASSISTANCE OF THE UTILITY AGENCY IF UTILITY CONFLICTS OCCUR. THE CONTRACTOR SHALL COORDINATE WITH UTILITY AGENCY AND SHALL ANTICIPATE ALL COSTS FOR UTILITY CROSSING DURING CONSTRUCTION.

FLOW ARROW CATCH BASIN - CONCRETE CATCH BASIN - NYLOPLAST STORM LINE STORM MANHOLE

EXISTING STORM MANHOLE EXISTING STORM LINE

RIGHT-OF-AWAY EASEMENT

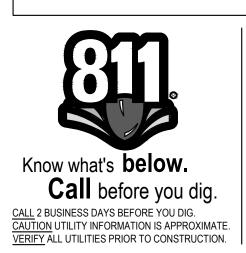
	STORM-CLASSIC STRUCTURE TABLE									
Structure Name	Street Location	Structure Details	I.E. IN	I.E. OUT						
CB-17	18+93.09 9.00' L	RIM: 72.79' SUMP: 69.58'	70.68' SD-16	70.58' SD-17						
CB-18	??? ???' ???	RIM: 72.93' SUMP: 69.29'	70.39' SD-17	70.29' SD-18						
CB-19	19+69.69 9.00' L	RIM: 73.30' SUMP: 69.00'	70.10' SD-18	70.00' SD-19						
CB-20	20+42.43 9.00' L	RIM: 74.12' SUMP: 68.55'	69.65' SD-19	69.55' SD-20						
CB-21	21+00.97 9.00' L	RIM: 74.77' SUMP: 68.16'	69.26' SD-20	69.16' SD-21						
CB-22	21+92.10 11.33' L	RIM: 74.65' SUMP: 67.60'	68.70' SD-21 70.74' SD-23	68.60' SD-22						
CB-23	21+92.02 9.83' R	RIM: 75.17' SUMP: 69.93'		70.93' SD-23						
SDMH-2	30+00.00 5.50' R	RIM: 74.00' SUMP: 67.89'	68.21' SD-22 68.21' SDMH-3	67.89' SDMH-2						

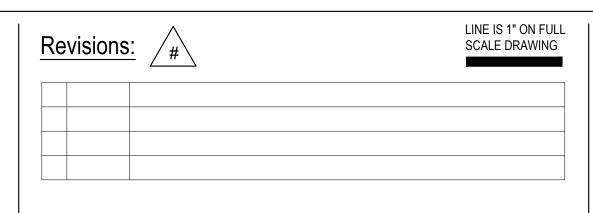
STORM	/ PIF	PE TABI	_E
Pipe Name	Size	Length	Slope
SD-17	12"	37.60'	0.50%
SD-18	12"	37.61'	0.50%
SD-19	12"	71.37'	0.50%
SD-20	12"	58.19'	0.50%
SD-21	12"	91.17'	0.50%
SD-22	12"	38.87'	1.00%
SD-23	8"	21.17'	0.90%
SD-26	12"	17.85'	0.59%
SD-27	12"	5.08'	0.77%

KEY MAP SCALE: NTS

PROFILE

SCALE: 1" = 20' HORIZONTAL 1" = 5' VERTICAL







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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

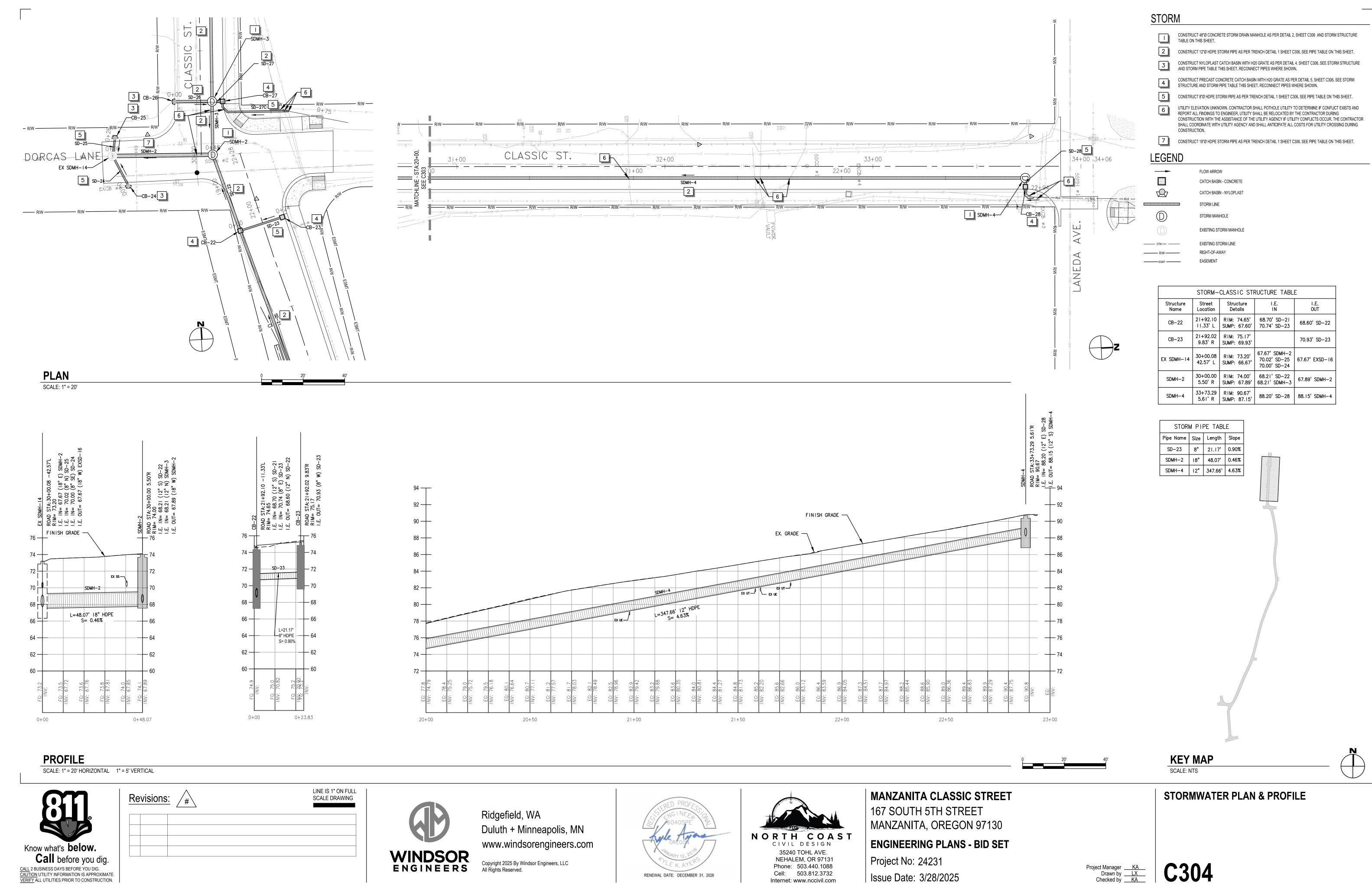
ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 3/28/2025

Project Manager KA
Drawn by LX
Checked by KA

STORMWATER PLAN & PROFILE

C303



RENEWAL DATE: DECEMBER 31, 2026

Issue Date: 3/28/2025

Internet: www.nccivil.com

PLAN

SCALE: 1" = 20'

CB-24

ROAD STA: ??? ??

RIM= 73.07

I.E. OUT= 70.70

EX SDMH-14

ROAD STA: 30+00

RIM= 73.20

I.E. IN= 67.67

I.E. IN= 70.02

I.E. IN= 70.02

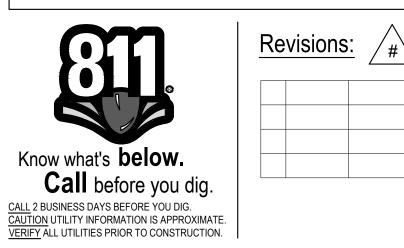
I.E. IN= 70.02

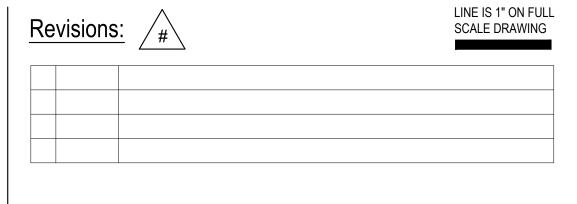
I.E. IN= 70.02

I.E. IN= 70.02 ROAD STA: 30+25.63 5.51'R
RIM= 74.32
I.E. IN= 72.04 (12" N) SDMH-4
I.E. IN= 71.81 (12" W) SD-26
I.E. OUT= 69.20 (12" S) SDMH-3
CB-27
ROAD STA: 30+25.60 10.58'P
RIM= 74.26
I.E. IN= 72.01 (8" S) SD-3
I.E. OUT= 74.26
I.E. IN= 74.26 CB-26 ROAD STA: 30+25.77 -12.35'L RIM= 73.78 I.E. OUT= 71.92 (12" E) SD-26 SD-24 | EX WAT FINISH GRADE -L=16.09' SD-26 EX WAT 0 NEW WAT SD-27 L=5.08' L=17.85' 12" HDPE S= 0.59% S= 0.77% HDPE ___S= 4.37%_ 0+00 0+50 0 + 350+00

PROFILE

SCALE: 1" = 20' HORIZONTAL 1" = 5' VERTICAL







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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231

Issue Date: 3/28/2025

Project Manager KA
Drawn by LX
Checked by KA

STORMWATER PLAN & PROFILE & INFILTRATION DETAILS

C305

KEY MAP

SCALE: NTS

CONSTRUCT 48"Ø CONCRETE STORM DRAIN MANHOLE AS PER DETAIL 2, SHEET C306 AND STORM STRUCTURE CONSTRUCT 12"Ø HDPE STORM PIPE AS PER TRENCH DETAIL 1 SHEET C306. SEE PIPE TABLE ON THIS SHEET. CONSTRUCT NYLOPLAST CATCH BASIN WITH H20 GRATE AS PER DETAIL 4, SHEET C306. SEE STORM STRUCTURE AND STORM PIPE TABLE THIS SHEET. RECONNECT PIPES WHERE SHOWN. CONSTRUCT PRECAST CONCRETE CATCH BASIN WITH H20 GRATE AS PER DETAIL 5, SHEET C306. SEE STORM STRUCTURE AND STORM PIPE TABLE THIS SHEET. RECONNECT PIPES WHERE SHOWN. CONSTRUCT 8"Ø HDPE STORM PIPE AS PER TRENCH DETAIL 1 SHEET C306. SEE PIPE TABLE ON THIS SHEET. UTILITY ELEVATION UNKNOWN, CONTRACTOR SHALL POTHOLE UTILITY TO DETERMINE IF CONFLICT EXISTS AND REPORT ALL FINDINGS TO ENGINEER, UTILITY SHALL BE RELOCATED BY THE CONTRACTOR DURING CONSTRUCTION WITH THE ASSISTANCE OF THE UTILITY AGENCY IF UTILITY CONFLICTS OCCUR, THE CONTRACTOR SHALL COORDINATE WITH UTILITY AGENCY AND SHALL ANTICIPATE ALL COSTS FOR UTILITY CROSSING DURING CONSTRUCTION. CONSTRUCT 18"Ø HDPE STORM PIPE AS PER TRENCH DETAIL 1 SHEET C306. SEE PIPE TABLE ON THIS SHEET. **LEGEND**

STORM

FLOW ARROW CATCH BASIN - CONCRETE CATCH BASIN - NYLOPLAST STORM LINE STORM MANHOLE

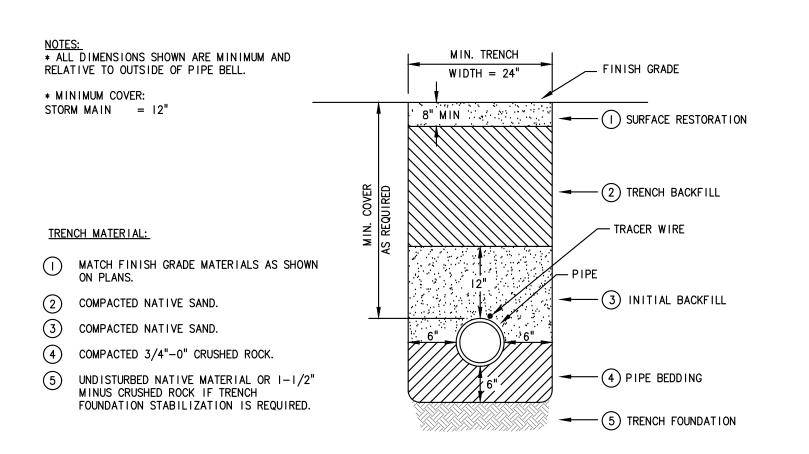
EXISTING STORM MANHOLE EXISTING STORM LINE

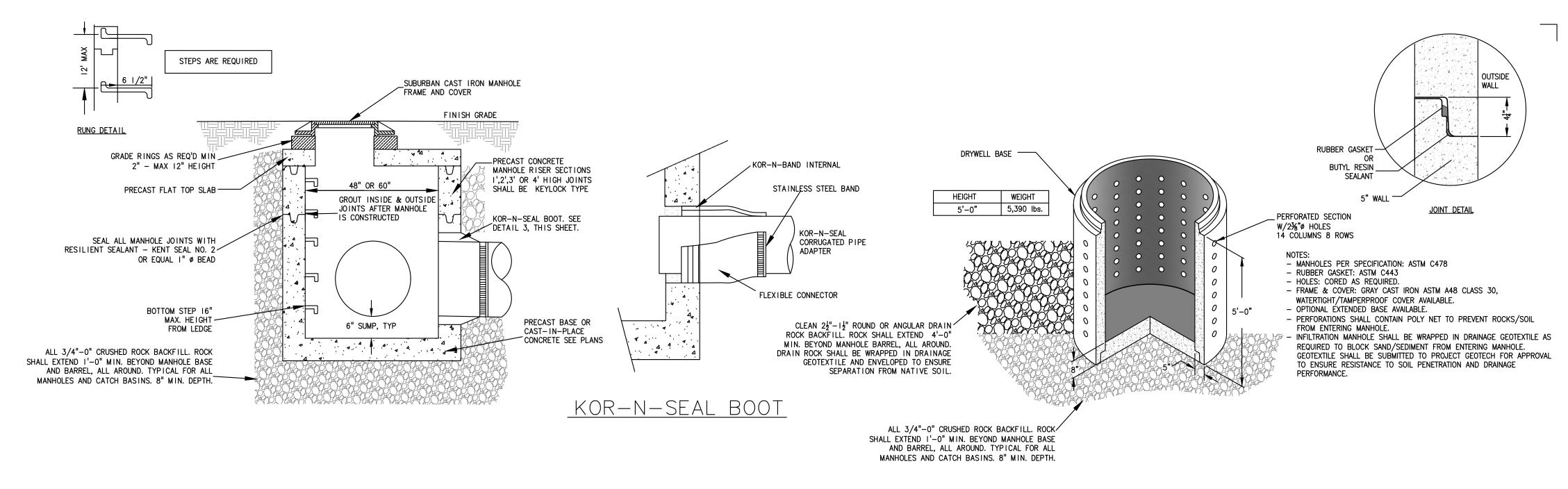
RIGHT-OF-AWAY EASEMENT _____ESMT _____

STORM-CLASSIC STRUCTURE TABLE									
Structure Name	Street Structure Location Details		I.E. IN	I.E. OUT					
CB-26	30+25.77 12.35' L	RIM: 73.78' SUMP: 70.92'		71.92' SD-26					
CB-27	30+25.60 10.58' R	RIM: 74.26' SUMP: 70.85'	72.01' SD-27A	71.85' SD-27					
EX SDMH-14	30+00.08 42.57' L	RIM: 73.20' SUMP: 66.67'	67.67' SDMH-2 70.02' SD-25 70.00' SD-24	67.67' EXSD-16					
SDMH-3	30+25.63 5.51' R	RIM: 74.32' SUMP: 68.36'	72.04' SDMH-4 71.81' SD-26 71.81' SD-27	69.20' SDMH-3					

STORM PIPE TABLE							
Pipe Name	me Size Leng		Slope				
SD-24	8"	16.09'	4.37%				
SD-25	8"	8.62'	1.00%				
SD-26	12"	17.85'	0.59%				
SD-27	12"	5.08'	0.77%				
SD-27A	8"	2.76'	0.59%				
SD-27B	8"	3.29'	0.57%				
SD-27C	8"	29.05'	2.02%				







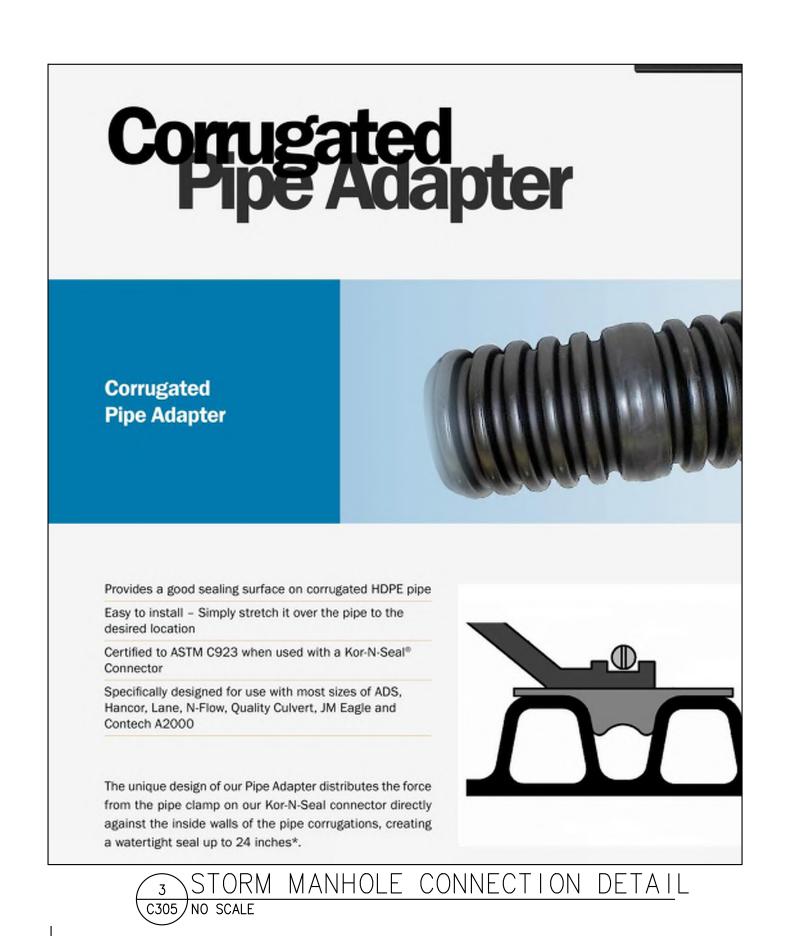
<u>STANDARD</u> MANHOLE SECTION INFILTRATION MANHOLE SECTION

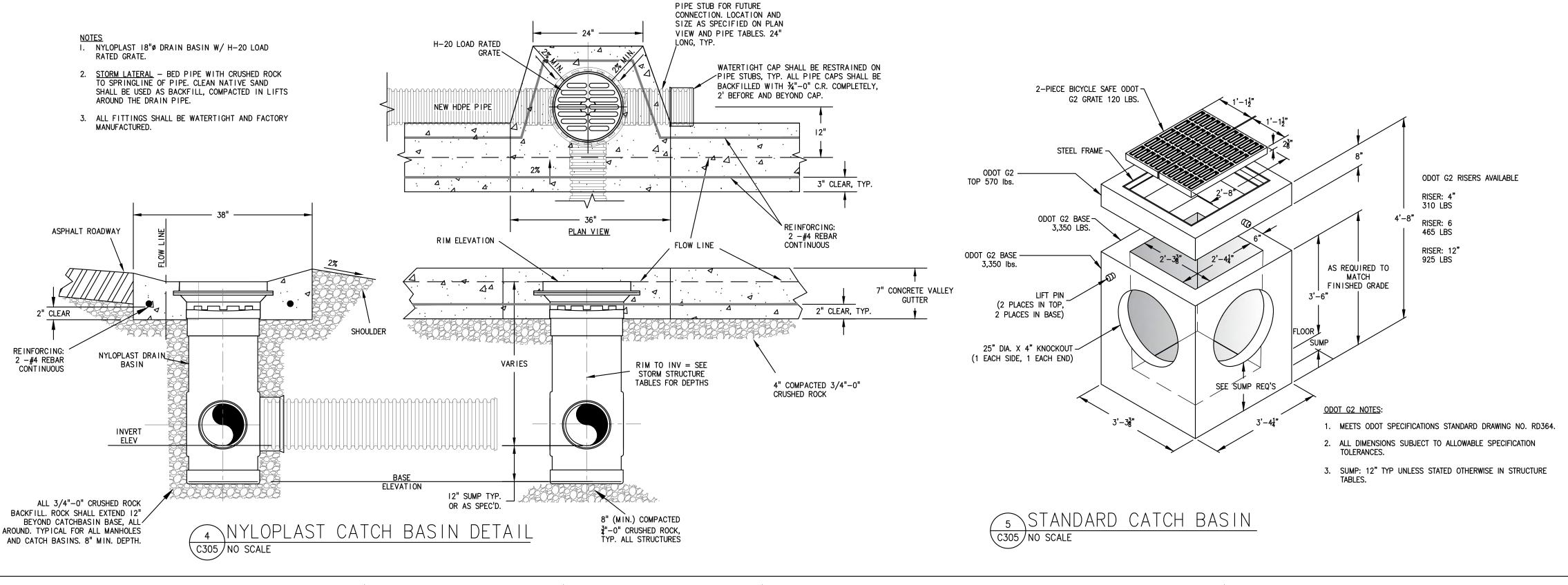
STORM MANHOLE DETAIL

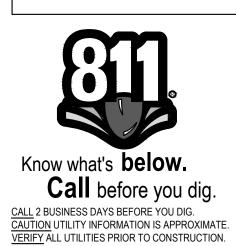
C305 NO SCALE

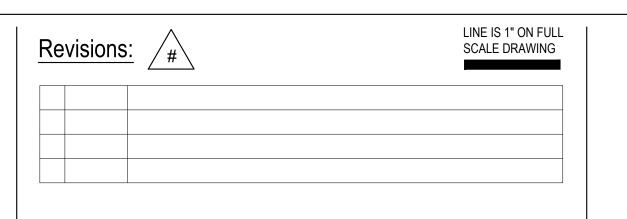
TYP. STORM TRENCH DETAIL

C305 NO SCALE







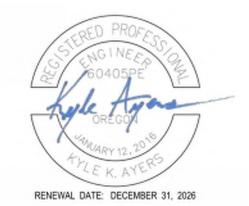




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Internet: www.nccivil.com

MANZANITA CLASSIC STREET

167 SOUTH 5TH STREET

MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Issue Date: 3/28/2025

ENGINEERING PLANS - BID SET
Project No: 24231

Project Manager <u>KA</u>

Drawn by <u>LX</u>

Checked by <u>KA</u>

STORM DETAILS

ENGINEERING

FOR

ISSUED

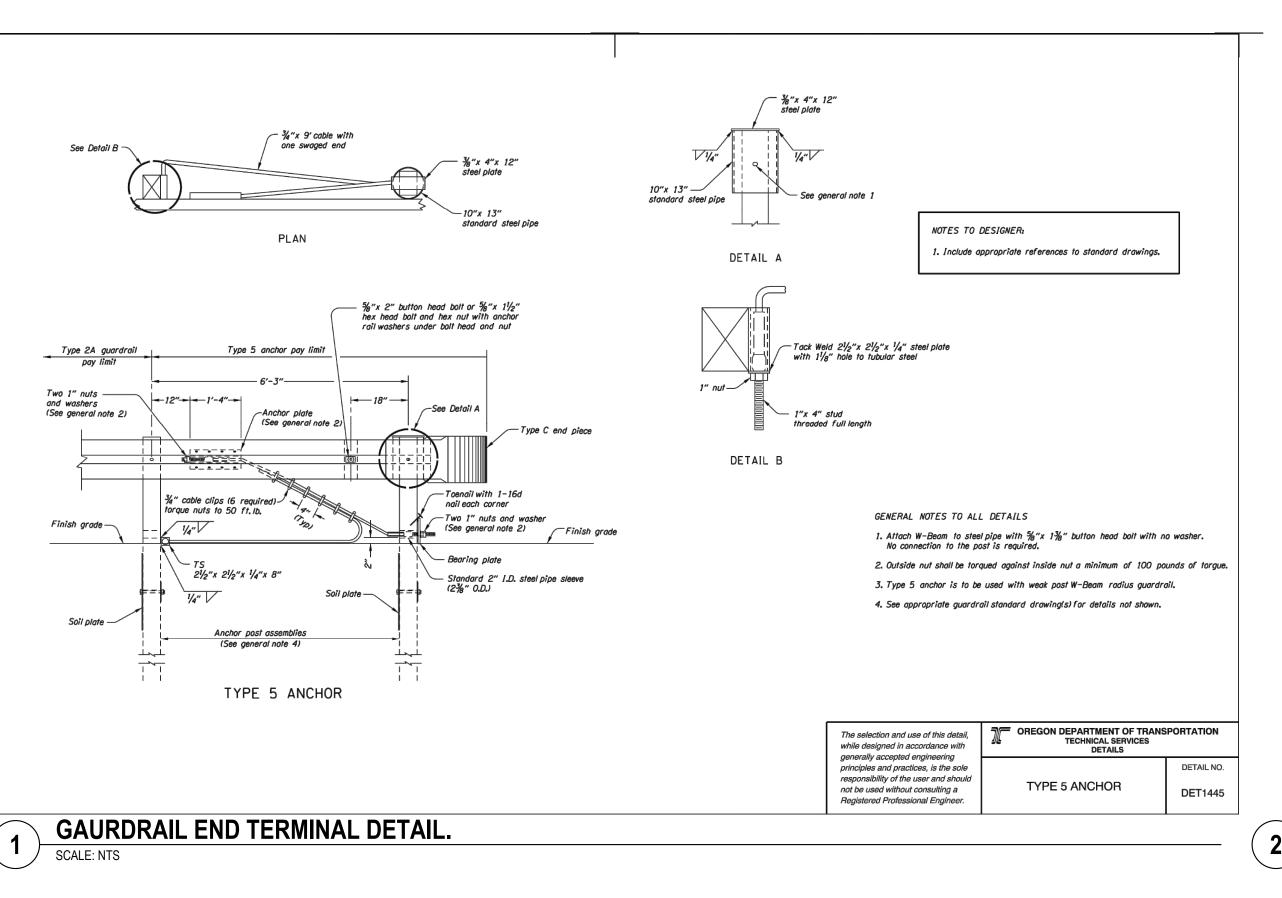
C306

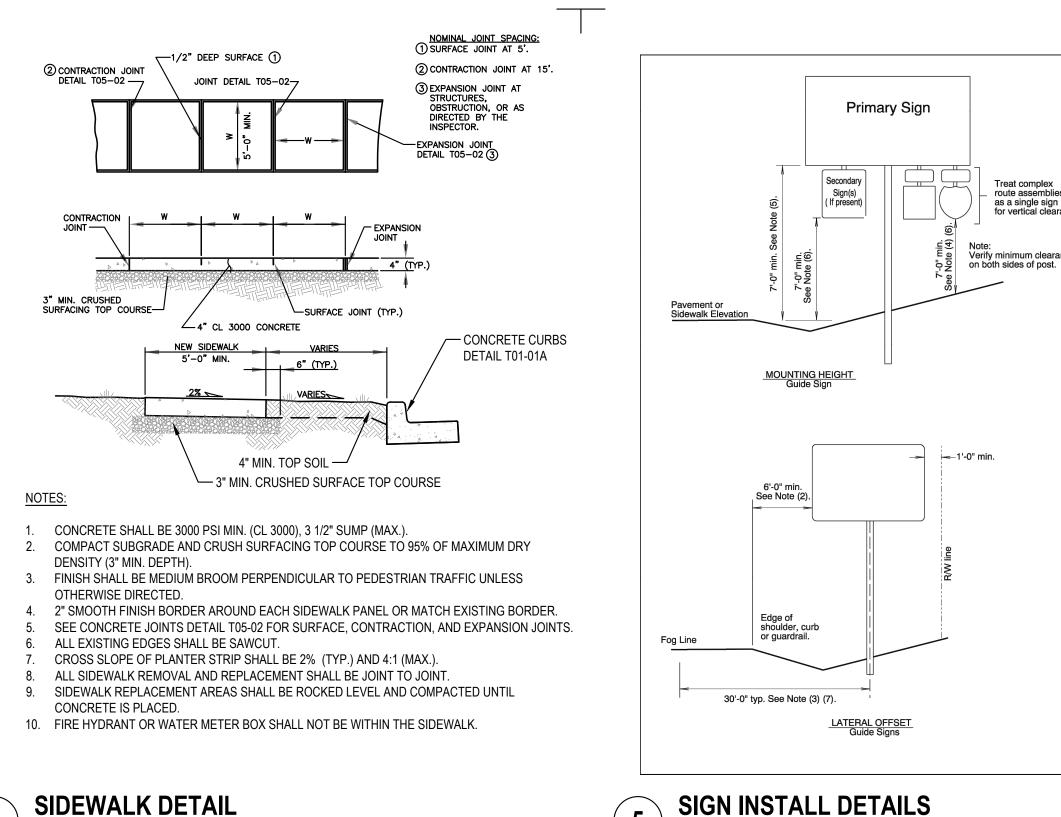


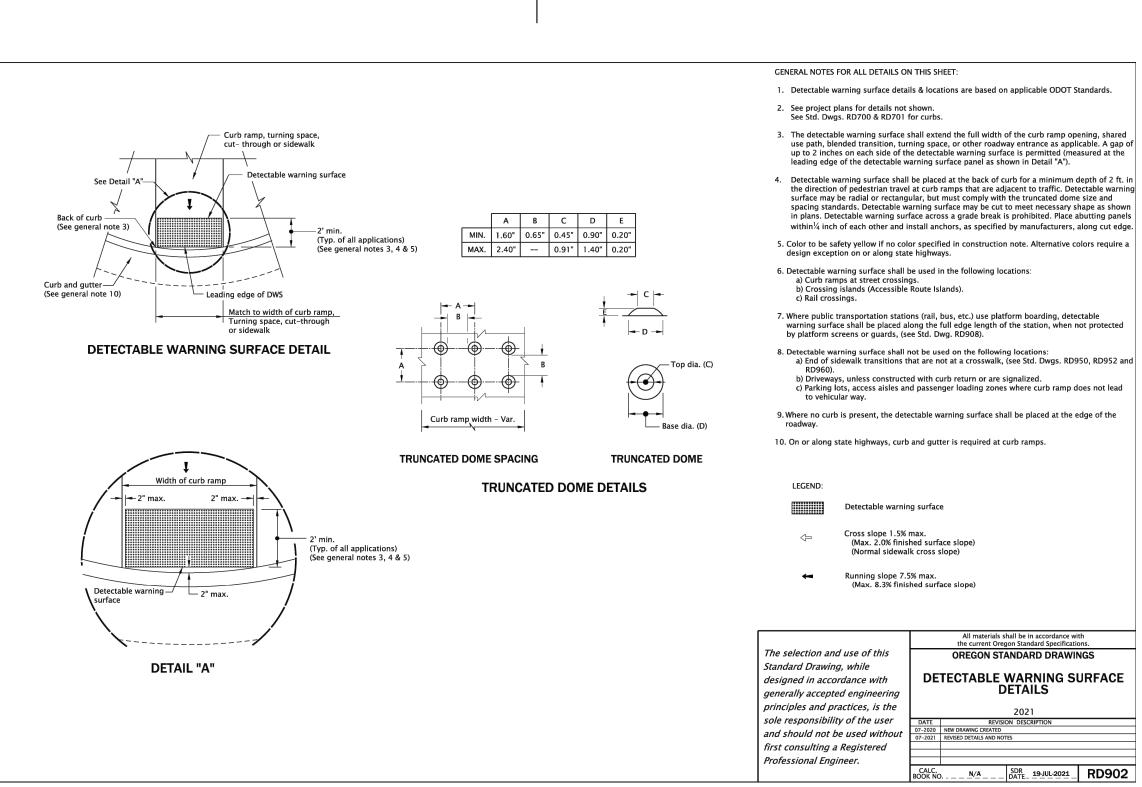
ENGINEERING

FOR

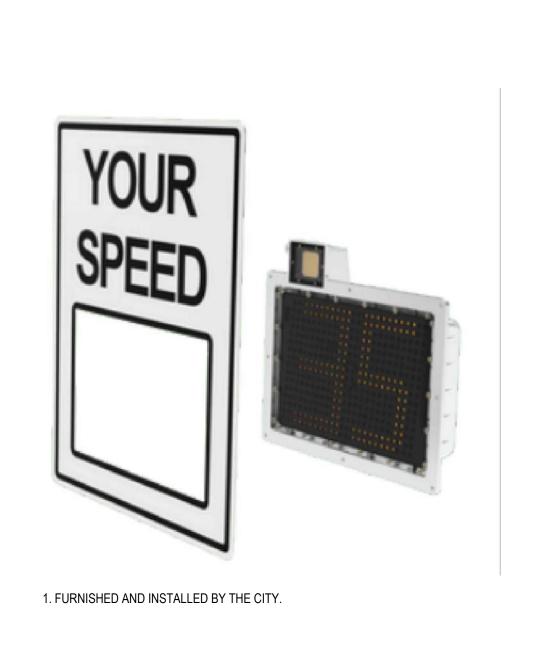
ISSUED







SCALE: NTS



General Installation Notes:

different from those shown.

or Region Traffic Section.

Primary Sign

MOUNTING HEIGHT
All Other Signs

See Notes (1),(2).

6'-0" min. See Note (2).

shoulder, curb or guardrail.

LATERAL OFFSET
All Other Signs

Fog Line

Verify minimum clearance on both sides of pos

a. Signing details shown on this sheet are

intended to convey "typical" conditions only.
Individual locations may require installation

For guidance regarding unique installations or exceptions call the Project Sign Designer

b. Locate breakaway supports away from ditches to avoid problems with erosion, corrosion,

debris, maintenance and breakaway performance. See Dwg. No. TM635 for more information.

c. For wood post support details see Dwg. No. TM670.

d. For perforated steelsquare tube support details see

e. For triangular base breakaway support details see

f. For multi-post breakaway support details see Dwg.

h. 2" vertical spacing between all signs.

1). 6' minimum if behind barrier.

2). 2' minimum if restricted R/W.

4). 8' minimum if bicycle path underneath.

3). 20' for ramp terminals.

Notes:

The selection and use of this

designed in accordance with

generally accepted engineering

principles and practices, is the

sole responsibility of the user

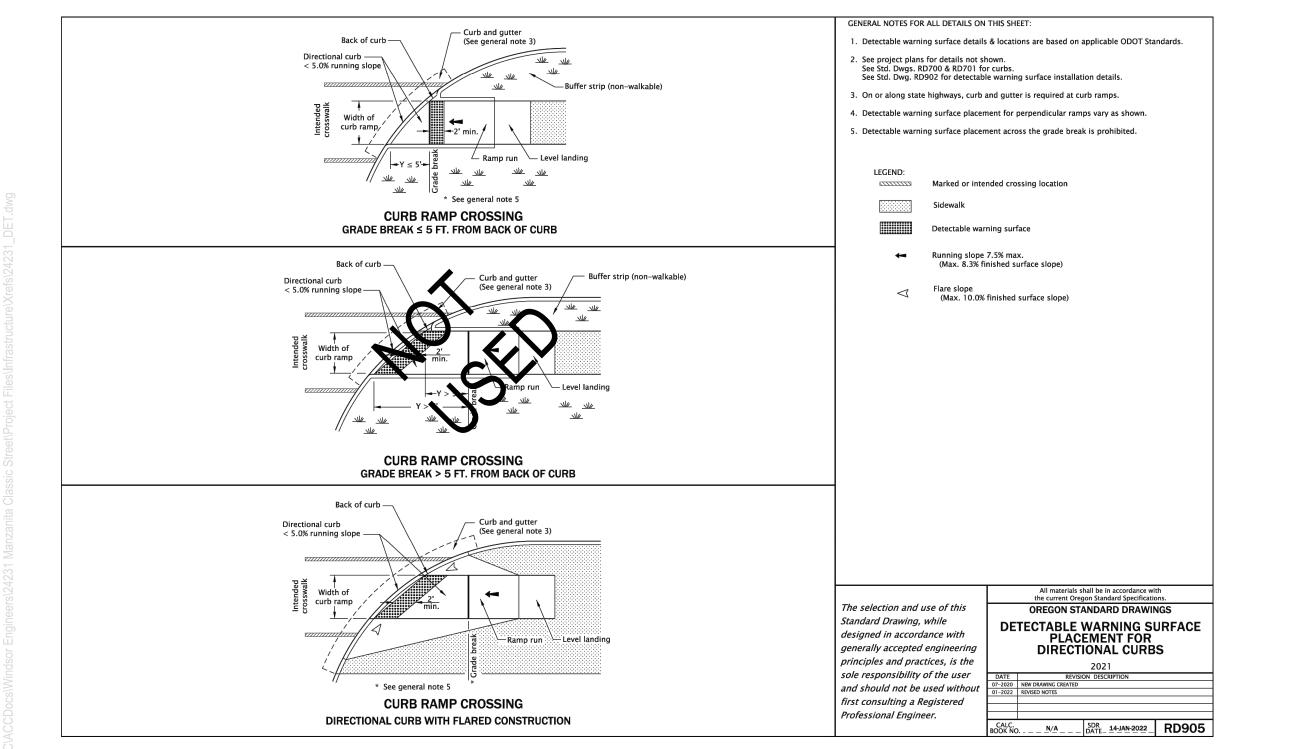
first consulting a Registered

Professional Engineer.

and should not be used without

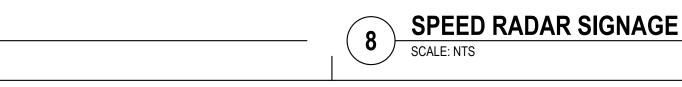
Standard Drawing, while

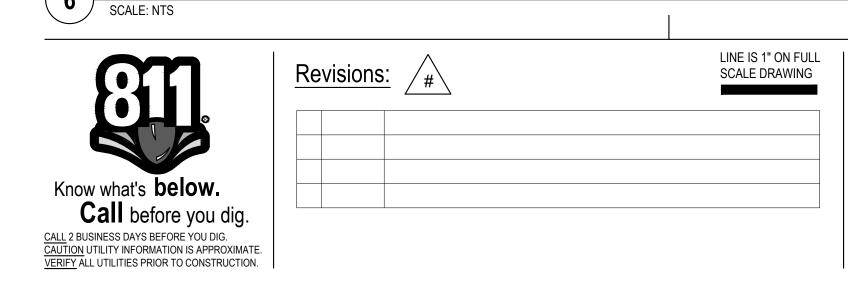
g. Mounting heights should not be more than 3 inches more than the minimum heights shown, where practical.





SCALE: NTS





CURB RAMP DETAIL



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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

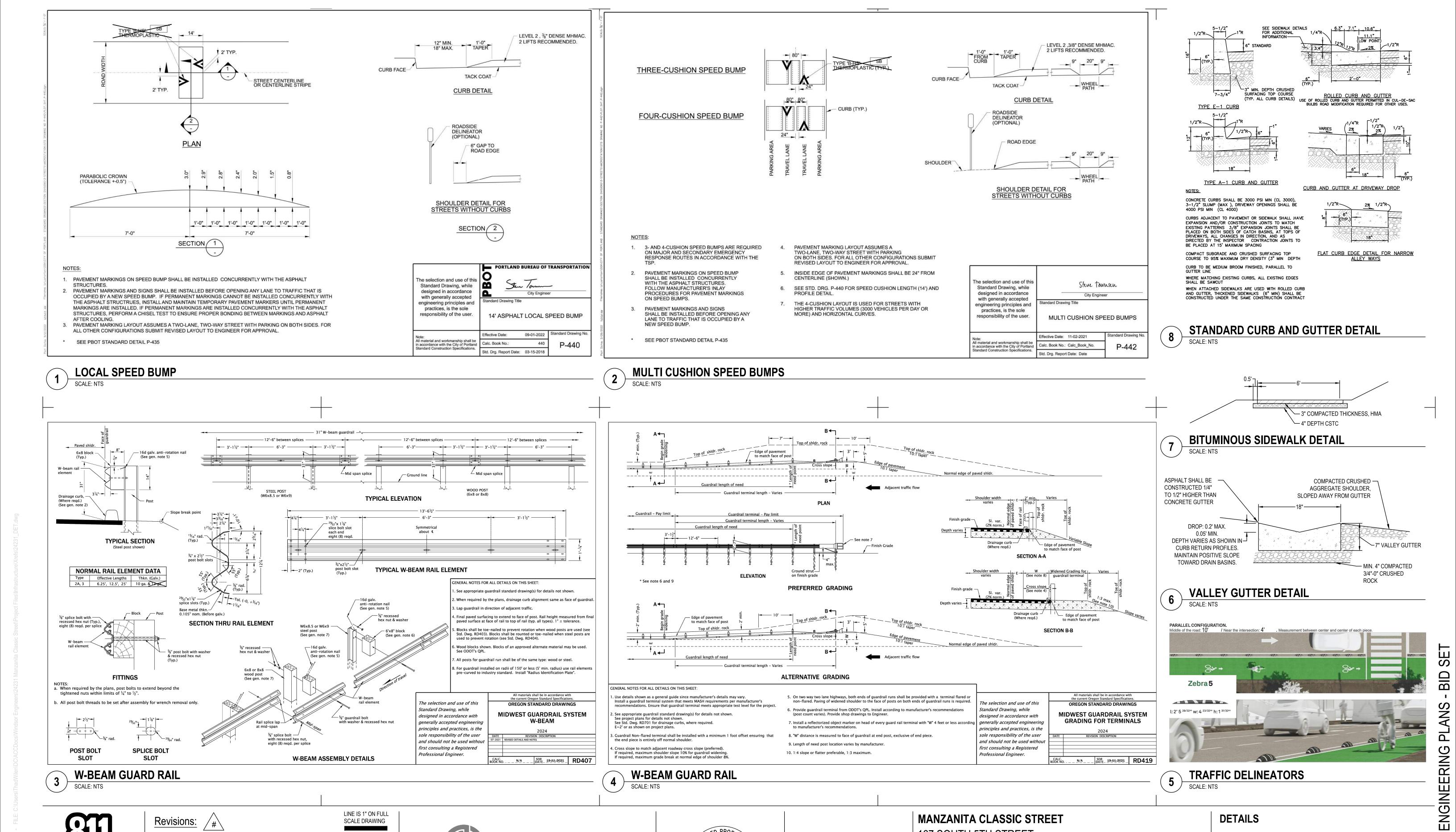
Project No: 24231

Issue Date: 4/11/2025

Project Manager MRL
Drawn by DTT
Checked by TWT

C500

DETAILS



Know what's **below.** Call before you dig. CALL 2 BUSINESS DAYS BEFORE YOU DIG. CAUTION UTILITY INFORMATION IS APPROXIMATE.

VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

LINE IS 1" ON FULL Revisions: SCALE DRAWING

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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025 Project Manager MRL
Drawn by DTT
Charled by TMT

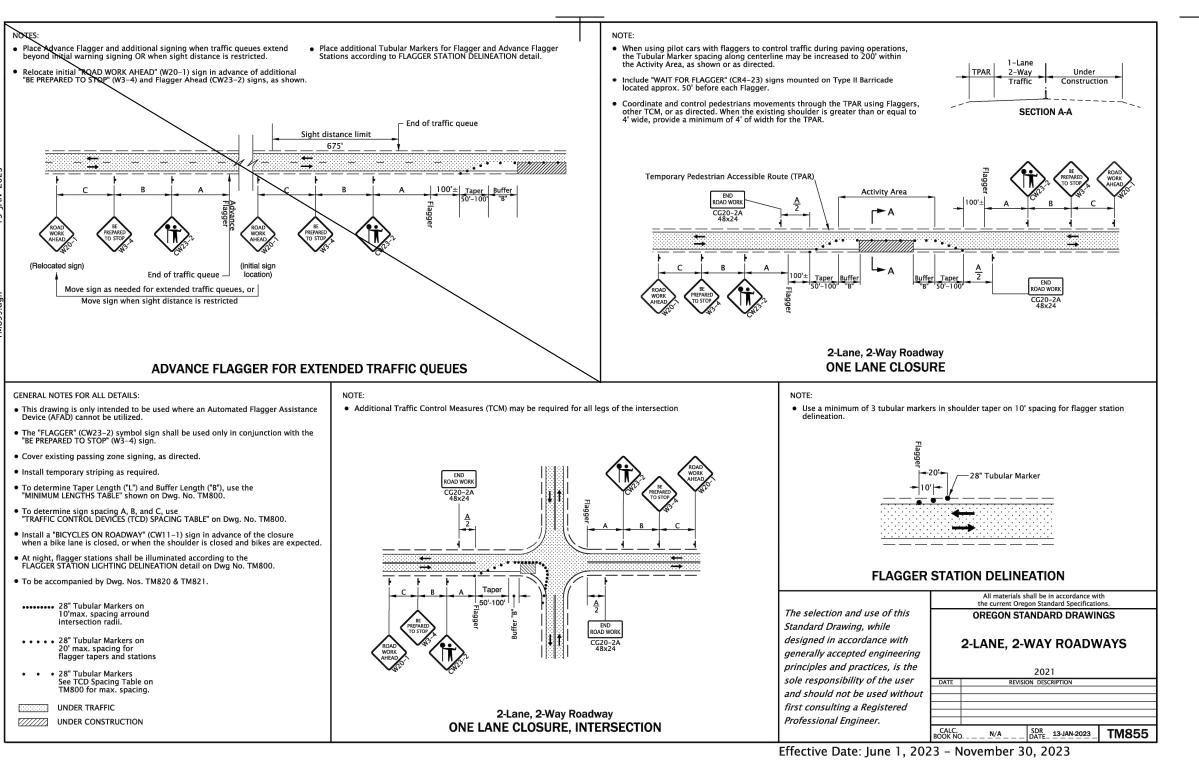
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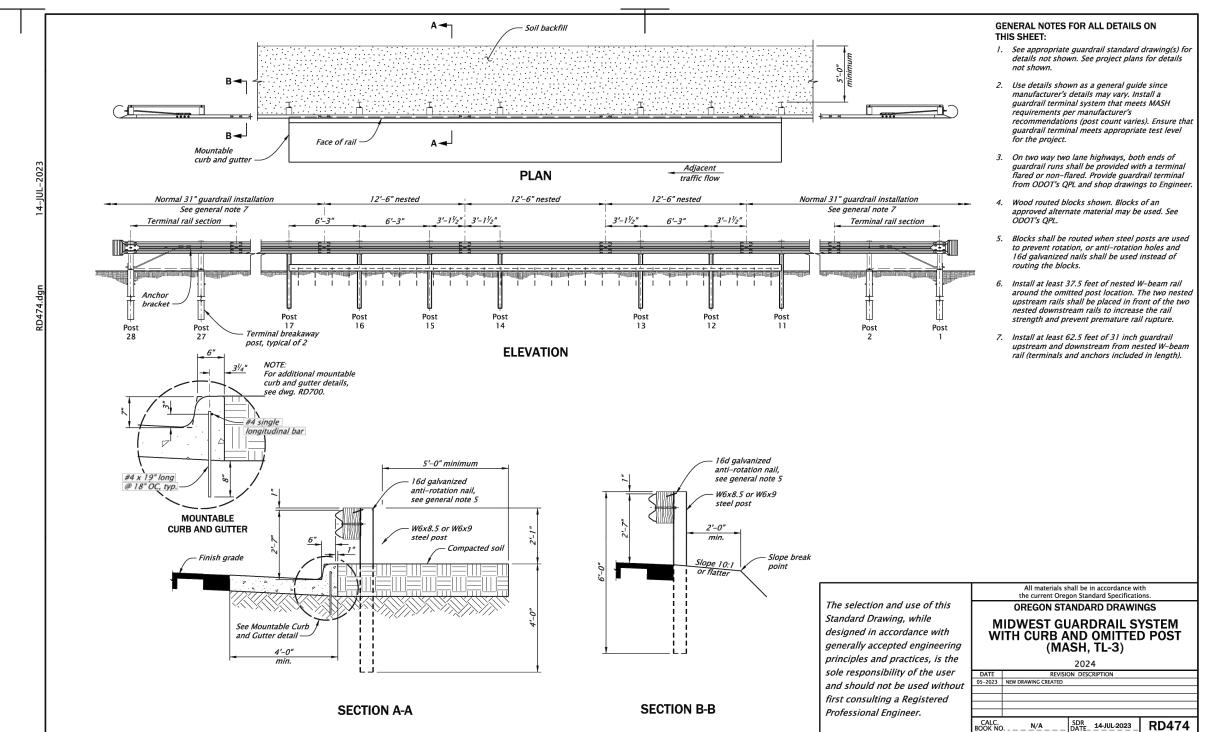
DETAILS

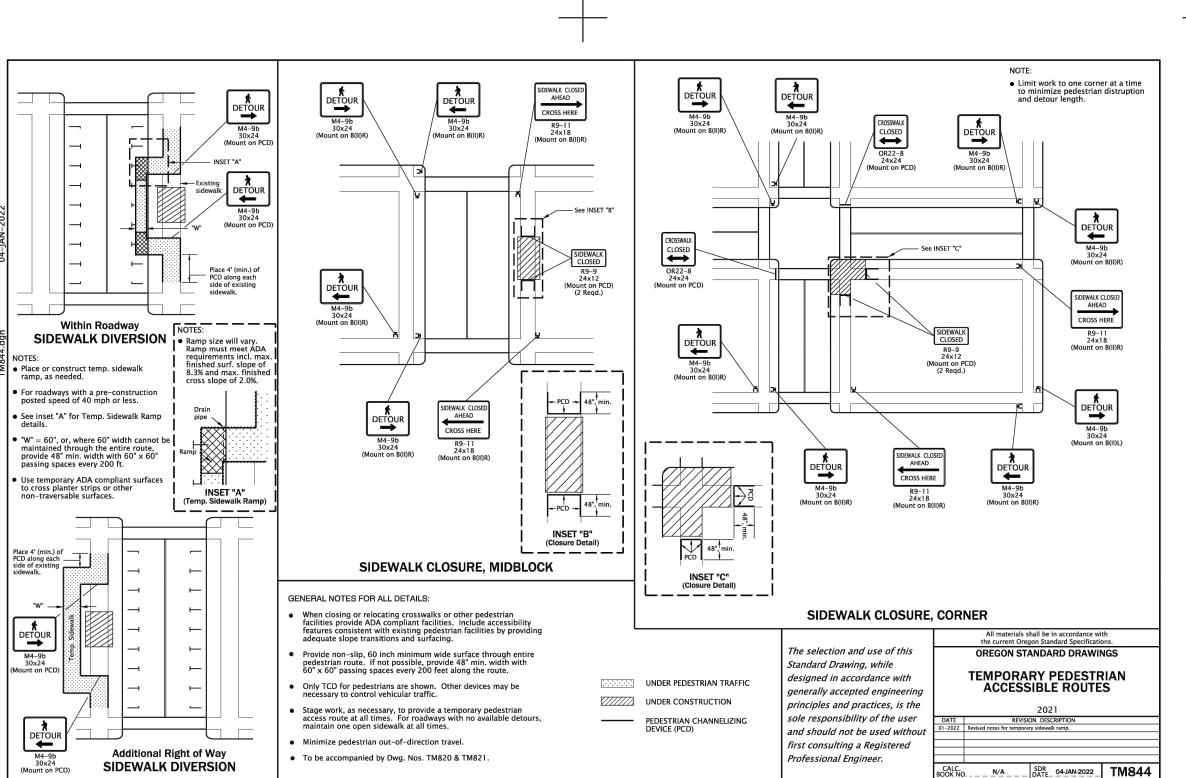
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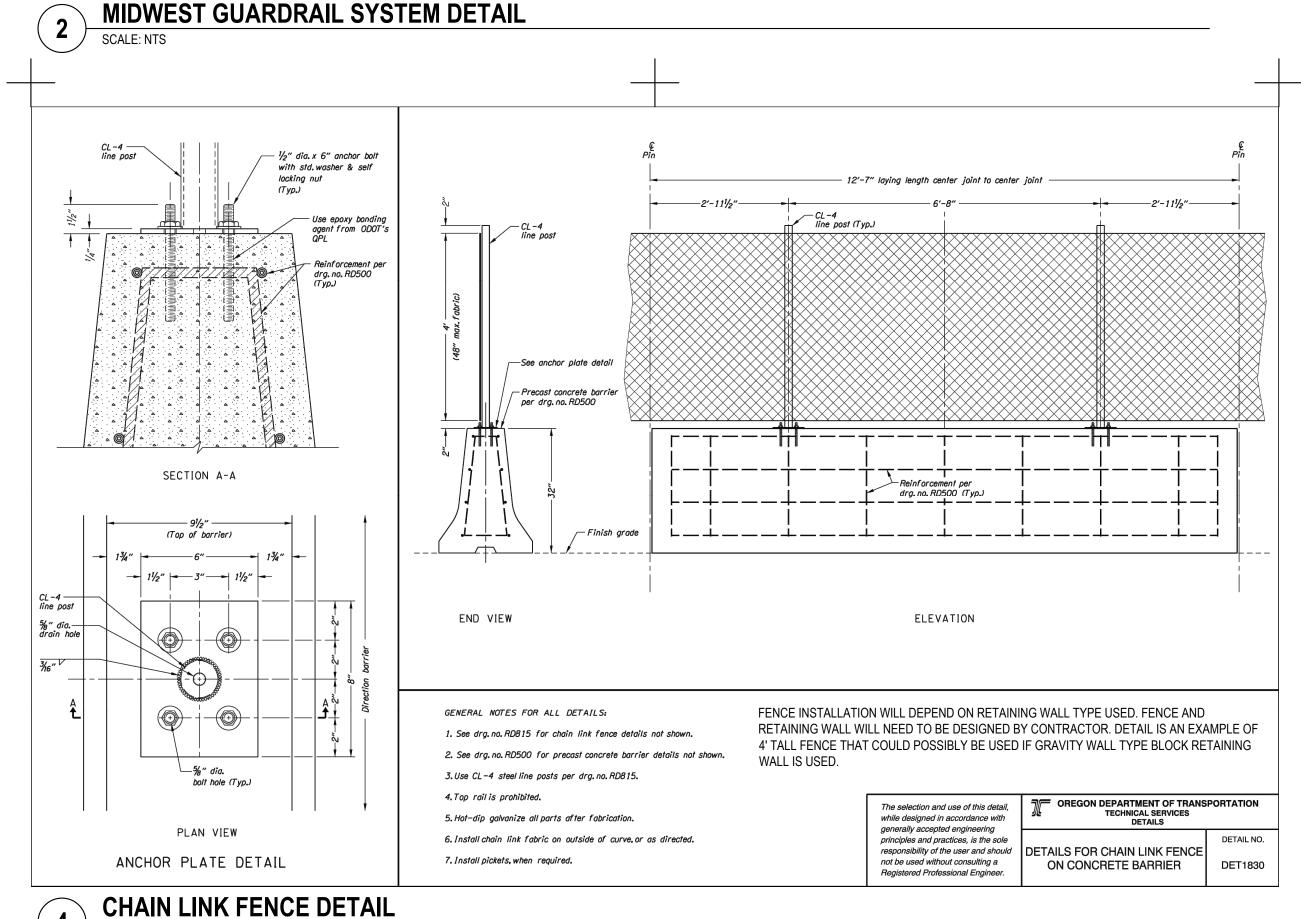
ISSUED







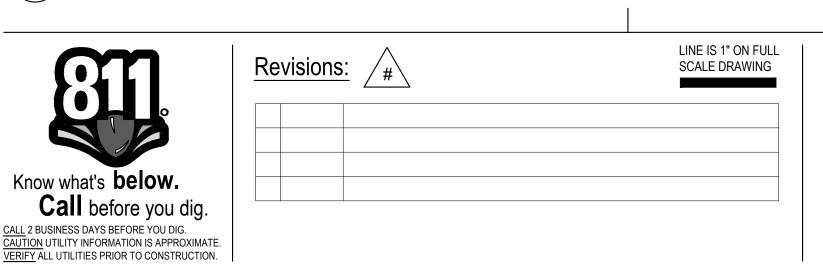




TEMPORARY PEDESTRIAN ACCESSIBLE ROUTES DETAIL

SCALE: NTS

2-LANE, 2-WAY ROADWAY TRAFFIC CONTROL DETAIL



WINDSOR

Effective Date: June 1, 2023 - November 30, 2023

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SCALE: NTS

MANZANITA CLASSIC STREET

167 SOUTH 5TH STREET

Effective Date: December 1, 2024 - May 31, 2025

167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

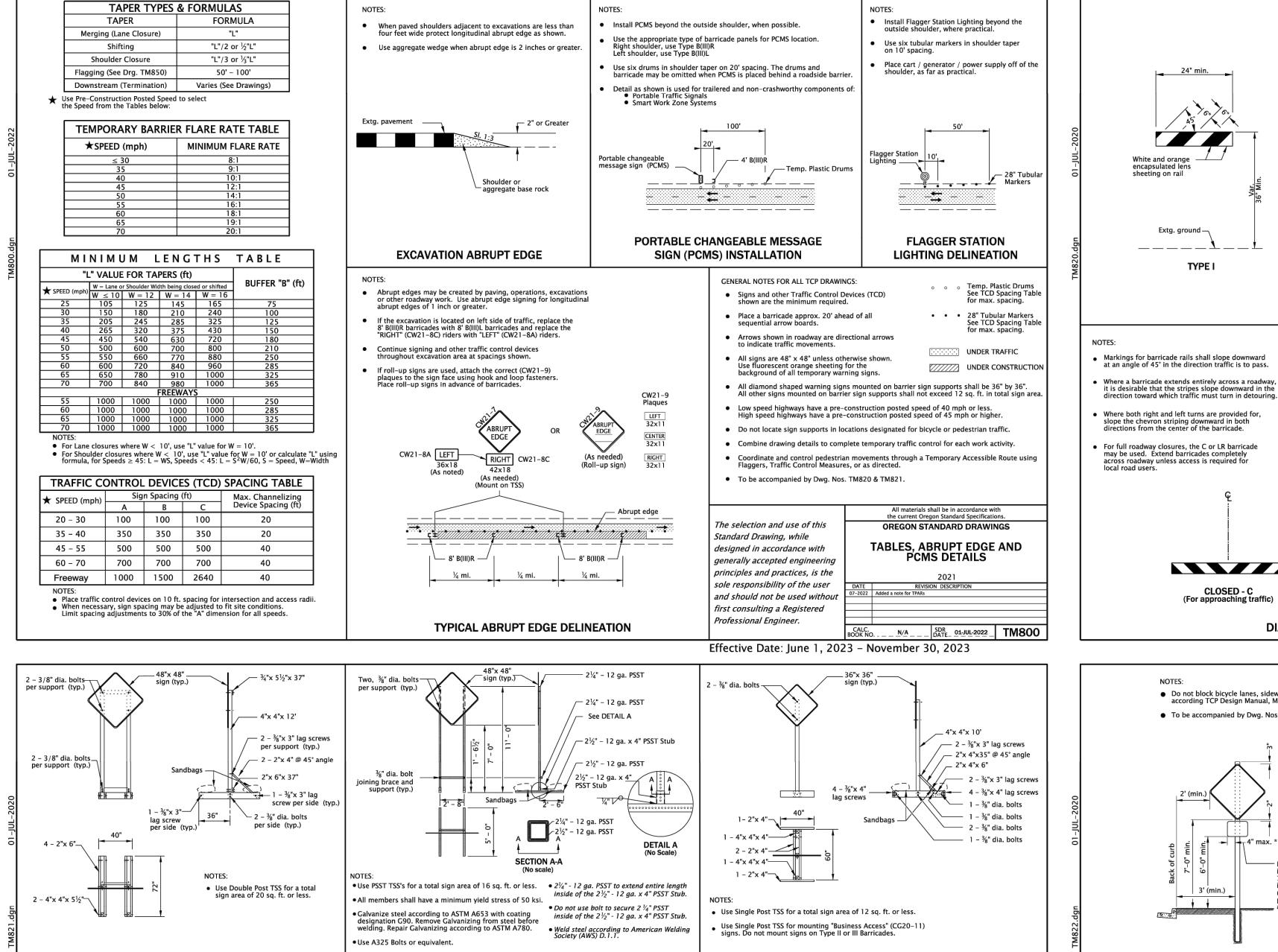
Project No: 24231

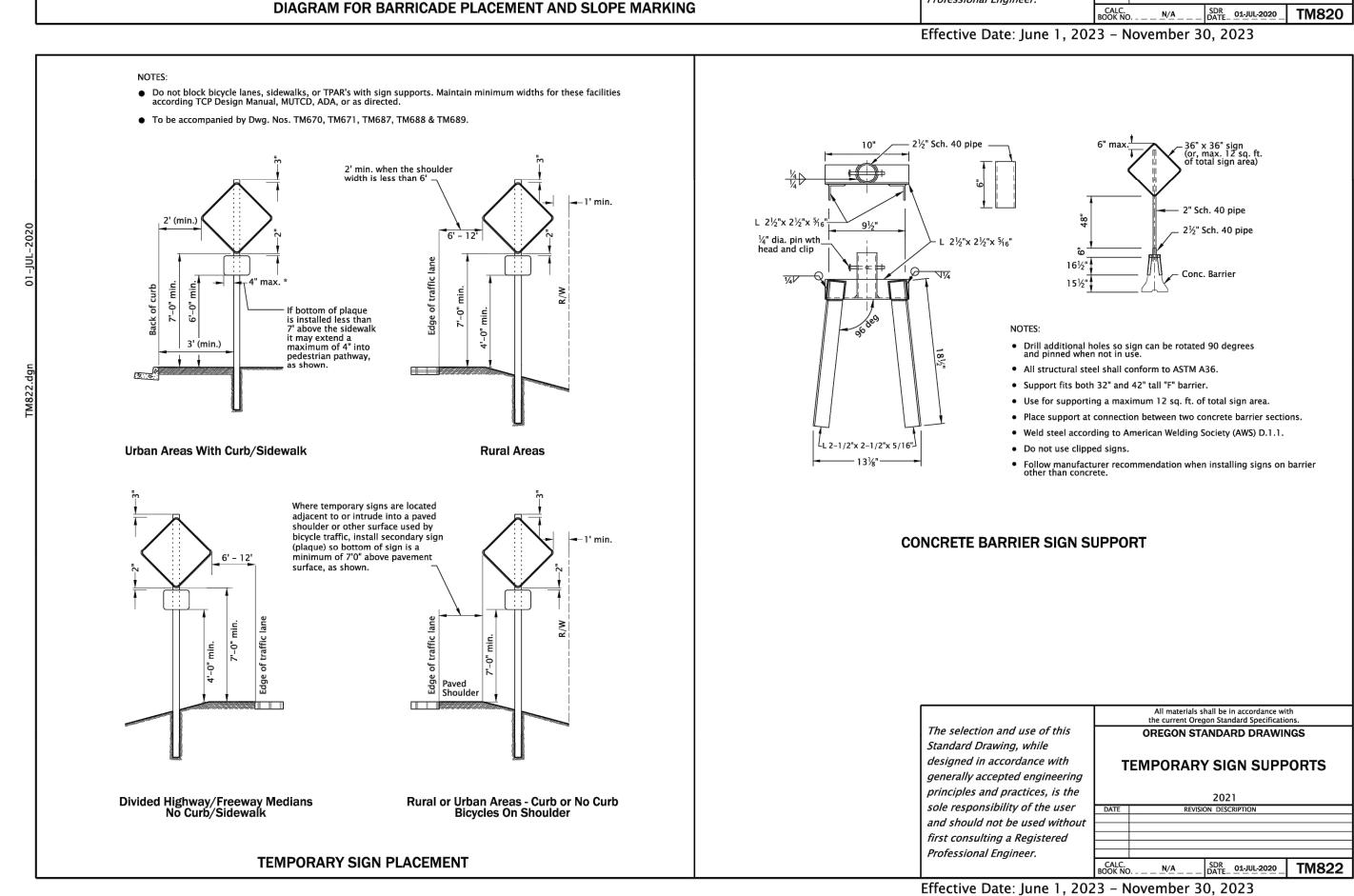
Issue Date: 4/11/2025

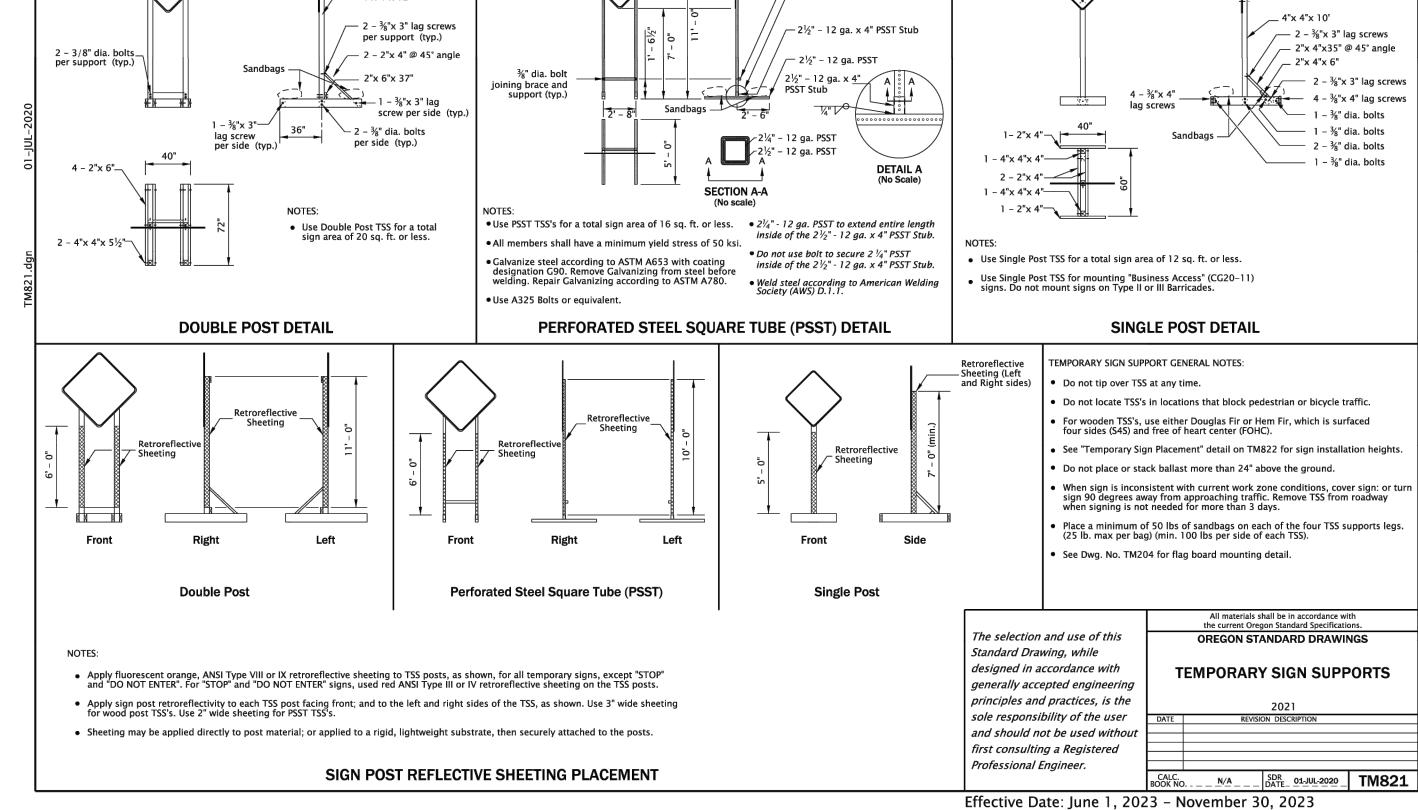
Project Manager MRL
Drawn by DTT
Checked by TWT

C502

DETAILS













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167 SOUTH 5TH STREET MANZANITA, OREGON 97130 **ENGINEERING PLANS - BID SET** Project No: 24231

Issue Date: 4/11/2025

MANZANITA CLASSIC STREET

24" min.

encapsulated lens sheeting on rail

Extg. ground -

TYPE I

CLOSED - C (For approaching traffic)

24" min. - 48" max.

TYPE II

BARRICADE RAIL LAYOUT

LT. / RT. - LR

White and orange

RT. SIDE - R (For approaching traffic)

TYPE III

White and orange -

encapsulated lens sheeting on rail

Extg. groun

LT. SIDE - L (For approaching traffic)

Project Manager MRL
Drawn by DTT
Checked by TWT Checked by

DETAILS

BID **PLANS** ENGINEERING FOR ISSUED

GENERAL NOTES FOR ALL DETAILS:

Sandbags (approximately 25 lb sack filled with sand) may be placed on lower frame to provide additional ballast.

Ballast shall not extend above bottom rail or be suspended

• For rails less than 36" long, 4" wide stripes shall be used.

Use barricades from ODOT Qualified Products List (QPL).

Do not place barricades in sidewalks unless sidewalk is closed and a temporary pedestrian accessible route (TPAR) is signed according to the TCP. See Dwg. No. TM844.

— Barricade type

BARRICADE NOTATION

The selection and use of this

designed in accordance with

generally accepted engineering

principles and practices, is the

sole responsibility of the user

first consulting a Registered Professional Engineer.

and should not be used without

Standard Drawing, while

All materials shall be in accordance with

OREGON STANDARD DRAWINGS

TEMPORARY BARRICADES

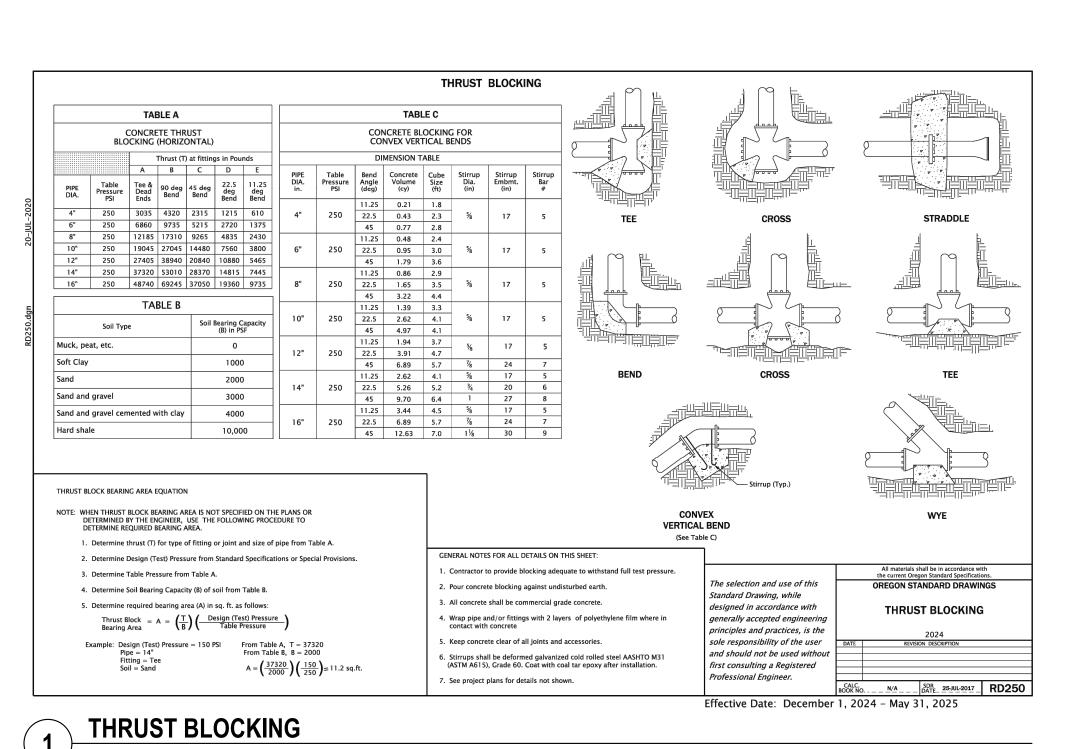
VISION DESCRIPTION

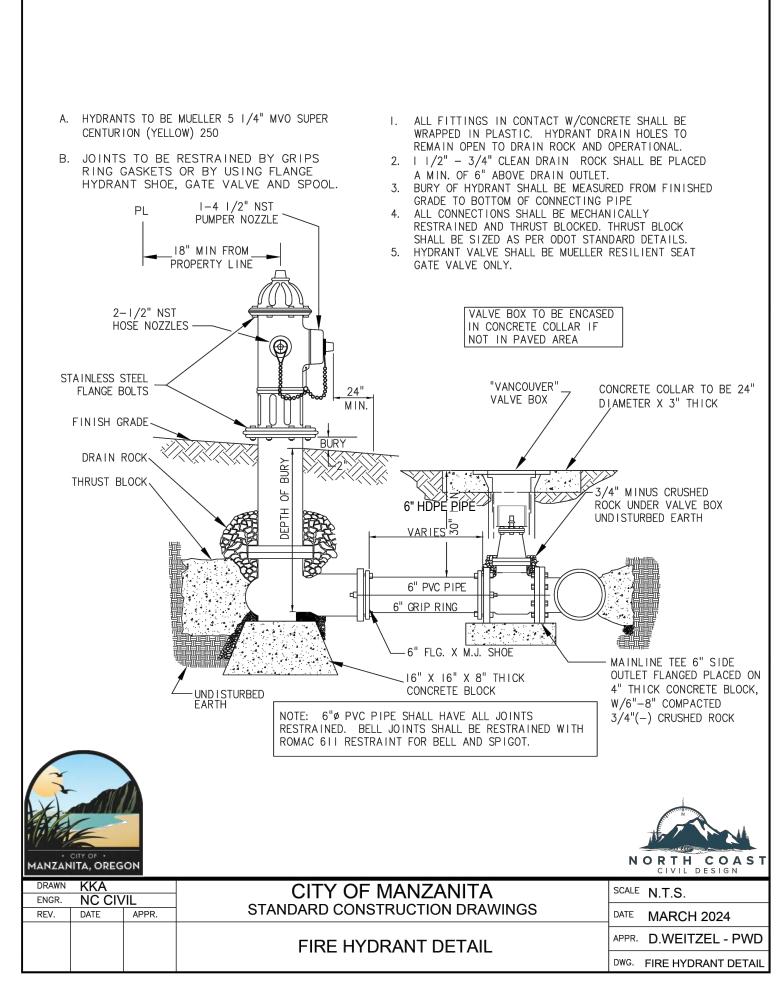
- Indicates barricade placement

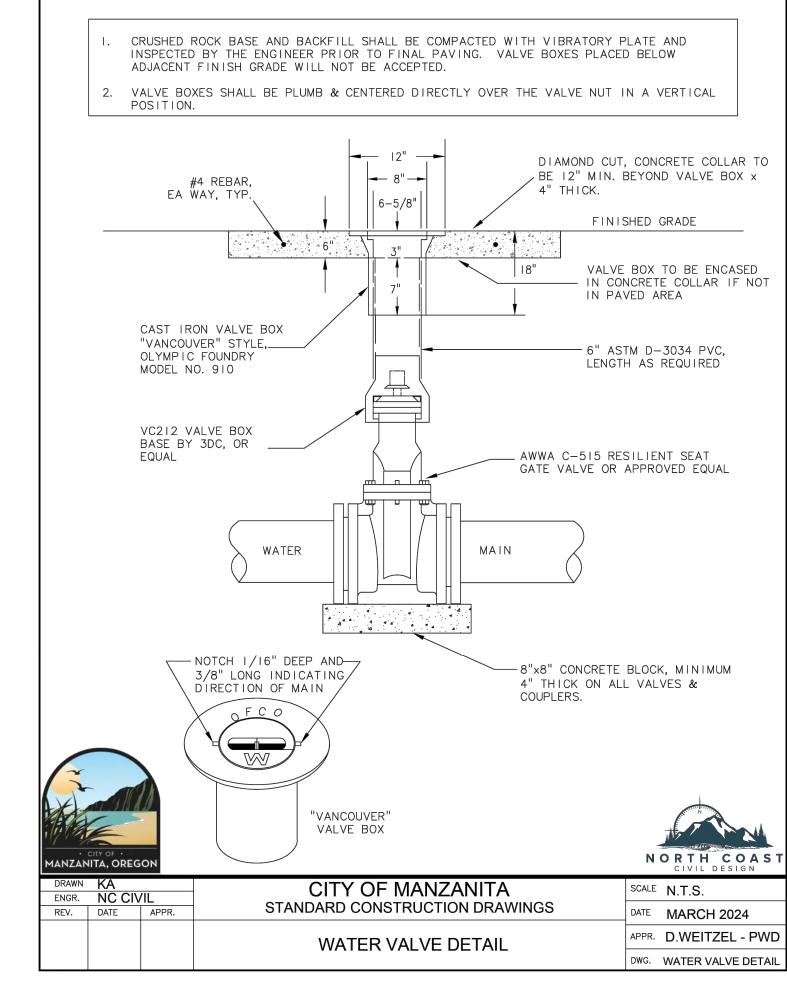
Rails must be 8" min. to 12" max. in height.

Use 4' Type III barricades where horizontal

 Do not block bike lanes or shoulders unless the facility is properly closed and signed.

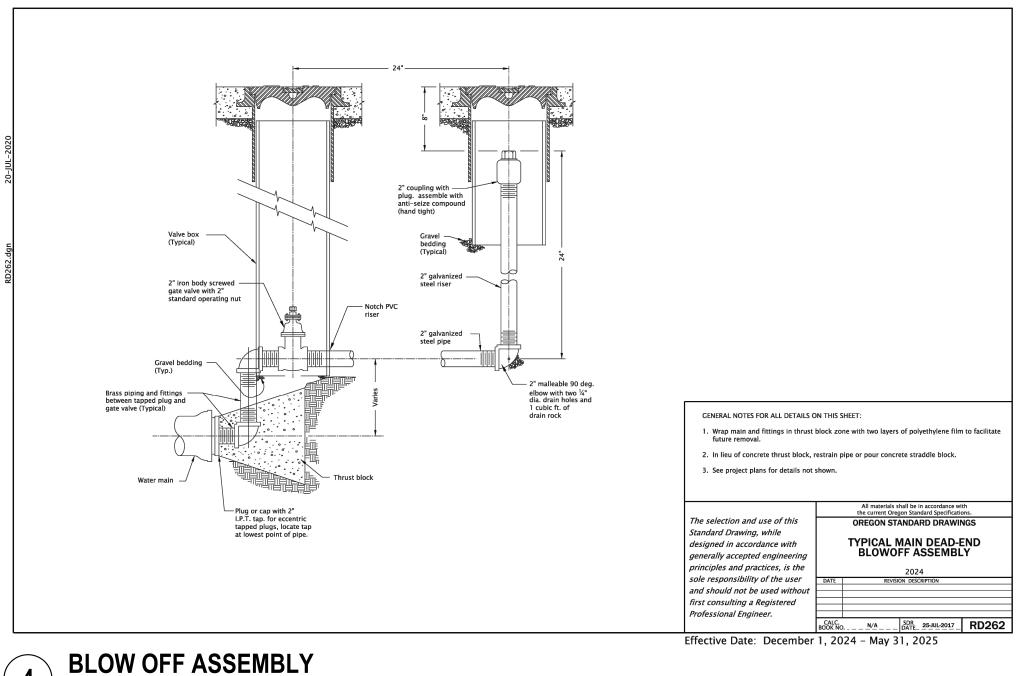


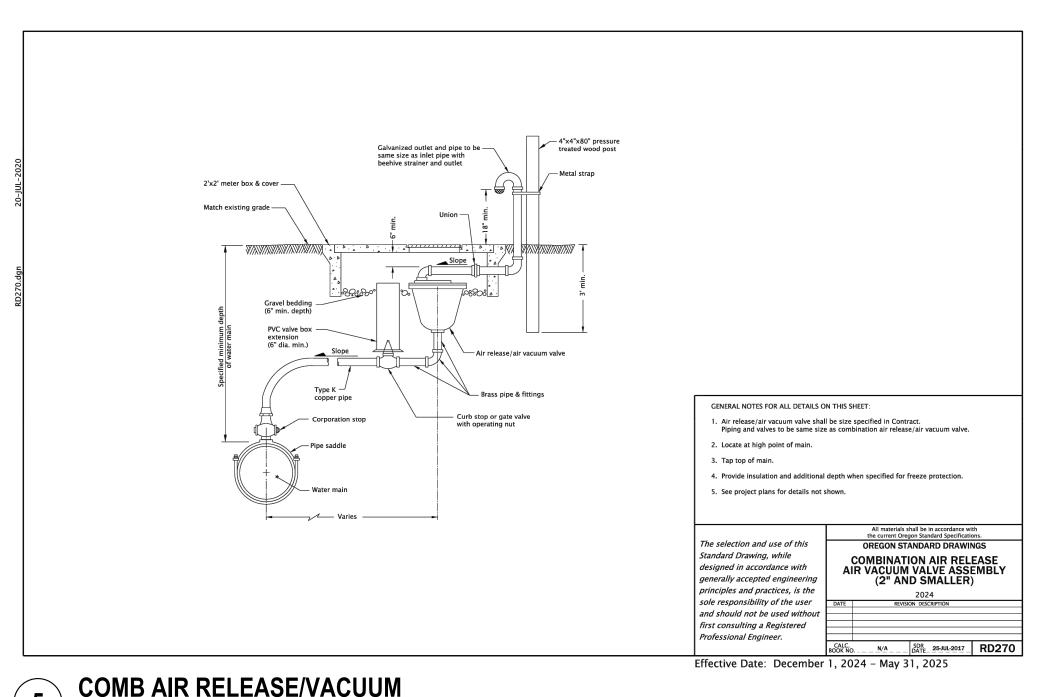




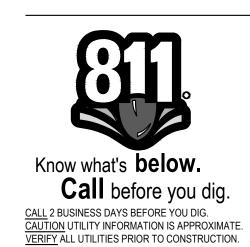


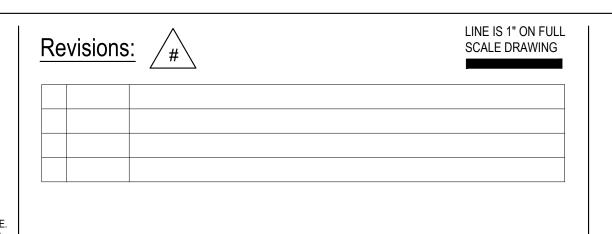














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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231

Issue Date: 4/11/2025

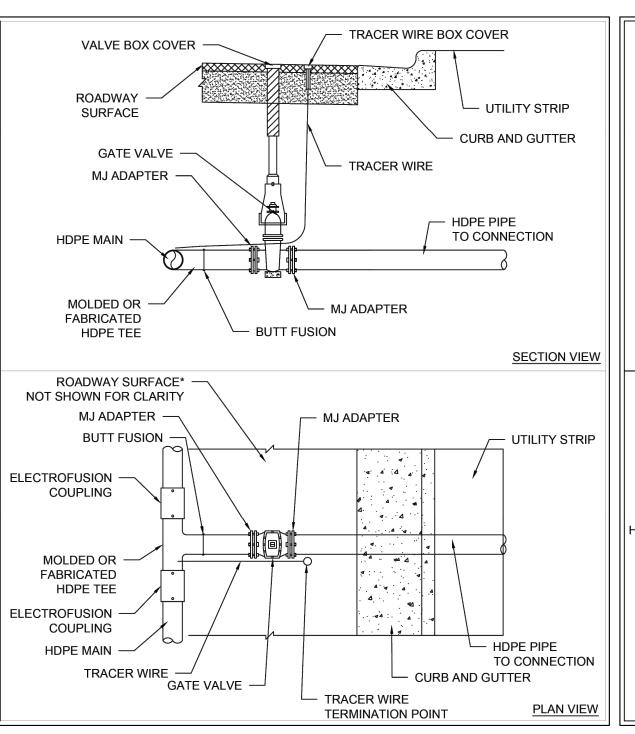
Project Manager MRL
Drawn by DTT
Checked by TWT

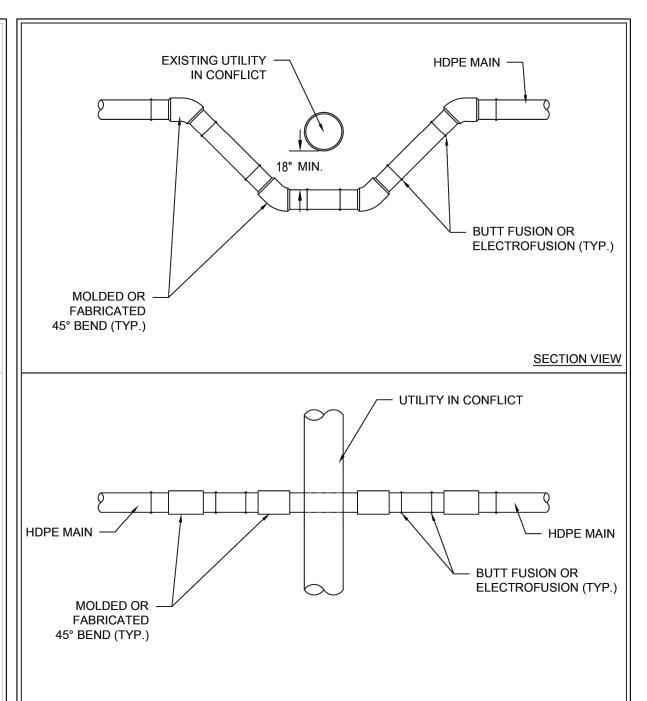
WATER STANDARD DETAILS (ODOT)

FOR ENGINEERING

ISSUED

C504



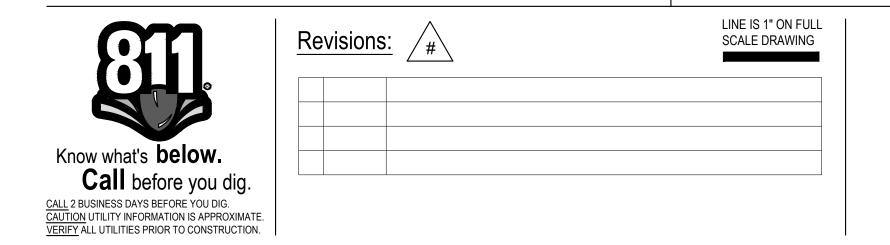


MIN. TRENCH WIDTH = 24" FINISH GRADE NOTES: * ALL DIMENSIONS SHOWN ARE MINIMUM AND RELATIVE TO OUTSIDE OF PIPE BELL. SURFACE RESTORATION 16" MIN * MINIMUM COVER: WATER MAIN = 30" 8" MIN., TYP. WATER SERVICE = 24" 2 TRENCH BACKFILL TRACER WIRE TRENCH MATERIAL: 4" MIN. ASPHALT SURFACE RESTORATION OVER 12" MIN. THICKNESS \(\frac{3}{4}" - 0" \) COMPACTED CRUSHED ROCK, 3 INITIAL BACKFILL (2) COMPACTED NATIVE SAND. 3 COMPACTED NATIVE SAND. 4) 3"-0" COMPACTED CRUSHED ROCK.* 4 PIPE BEDDING 5 UNDISTURBED NATIVE MATERIAL OR I-1/2" MINUS CRUSHED ROCK IF TRENCH FOUNDATION STABILIZATION IS REQUIRED. 5 TRENCH FOUNDATION * FOR PIPES 4"Ø AND SMALLER, CLEAN NATIVE SAND MAY BE USED FOR PIPE BEDDING AT THE DISCRETION OF THE CITY OF MANZANITA PUBLIC WORKS DEPARTMENT. NORTH COAST CITY OF MANZANITA SCALE N.T.S. STANDARD CONSTRUCTION DRAWINGS DATE MARCH 2024 APPR. D.WEITZEL - PWD PIPE TRENCHING DETAIL PLAN VIEW DWG. PIPE TRENCH DETAIL

MECHANICAL CONNECTION TO GATE VALVE

UTILITY CONFLICT FUSION TO HDPE FITTINGS SCALE: NTS

PIPE TRENCHING DETAIL SCALE: NTS





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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130

ENGINEERING PLANS - BID SET

Project No: 24231 Issue Date: 4/11/2025 HDPE DETAILS

C505

Project Manager MRL
Drawn by DTT
Checked by TWT

FINISHED GRADE — EXISTING GROUND — MAXIMUM WALL DEPTH - FINISHED GRADE ELEVATION 13+50 10+88.67+00 21+00 21+26.76

PROFILE SCALE: HORIZONTAL: 1" = 40' VERTICAL: 1" = 20'

LINE IS 1" ON FULL Revisions: /# SCALE DRAWING Know what's below. Call before you dig.

Call 2 Business days before you dig.

Caution utility information is approximate.

VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

WINDSOR

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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANZANITA, OREGON 97130 **ENGINEERING PLANS - BID SET**

Project No: 24231 Issue Date: 4/11/2025

Project Manager MRL
Drawn by DTT
Checked by TWT

RETAINING WALL PLAN

KEY MAP

SCALE: NTS

C600

KEYNOTES

TRANSITIONS

DETAIL 2/C505

RECOMMENDATIONS

505 INSTALL CARV PER DETAIL 5/C506

502 CONNECT TO EXISTING WATER MAIN PIPE

506 INSTALL HYDRANT ASSEMBLY PER DETAIL

507 CAP EXISTING PIPE TEE AND ADD THRUST BLOCK

503 | CONNECT TO EXISTING WATER MAIN FITTING

504 INSTALL BENDS OR DEFLECT AS NEEDED PER MANUFACTURER'S

508 PROVIDE 18" SEPARATION BETWEEN WATER AND STORM OR SANITARY PIPE. SEE

ISSUED FOR ENGINEERING PLANS

PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE		QTY
TREES	PIN CO5	PINUS CONTORTA / SHORE PINE	6` HT.		17
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	SPACING	QTY
GROUND	COVERS				
	ARC VAN	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE' / VANCOUVER JADE KINNIKINNICK	1 GAL.	24" o.c.	291
	FIN 22E	COAST RANGE ECO-REGEN / GRASS SEED MIXTURE FOR MAINTENANCE USE*	SEED		33,193 SF
	GAU SHA	GAULTHERIA SHALLON / SALAL	1 GAL.	36" o.c.	449
	PAN SHD	PANICUM VIRGATUM `SHENANDOAH` / SHENANDOAH SWITCH GRASS	1 GAL.	24" o.c.	1,067
	SCH PRA	SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES' / PRAIRIE BLUES LITTLE BLUESTEM	1 GAL.	18" o.c.	357

*GRASS SEED MIXTURE FOR MAINTENANCE USE OREGON COAST RANGE (CR) ECO-REGON ELEVATION RANGE: 450-750 METERS (1200 M PEAKS): MOISTURE RANGE: 65-100+CM./YEAR

SPECIES (SCI NAME)	SPECIES (COMMON NAME)	NATIVE HABIT (Y/N)	NOXIOUS (Y/N) W	VILDLIFE VALUE (COVER FORAGE)	MATURE HEIGHT (CM)	LIFE CYCLE	PURE LIVE SEEDS/m2	SEEDING RATE GRAMS PLS/HA	SEEDING RATE LBS. PLS/ACRE
FESTUCA RUBRA	RED FESCUE	Υ	N	C/F	30-60	Р	125	1298	1.15(45.8 OZ)
ELYMUS GLAUCUS	WILD RYE	Υ	N	C/F	60+	Р	125	4730	4.22(16.7 OZ)
BROMUS CARINATUS	CALIFORNIA BROME	Υ	N	С	30-60	Р	75	5325	4.75(188OZ)
AGROSTIS EXARATA	SPIKE GRASS	Υ	N	С	30-50	Р	100	113	0.10(4.0OZ)
GLYCERIA OCCIDENTALIS	MANNAGRASS	Υ	N	C/F	30-60	Р	75	1332	1.2(47.0OZ)
						50	0 SEEDS/m2 COVERAGE	12,800 GRAMS PLS/ha	11.4 LBS PLS/AC

NOMENCLATURE USE FOR SPECIES IS CONSISTENT WITH HITCHCOCK AND CRANQUIST 1973 AND/OR NAME USED IN SEED CATELOGUES RECOMMENDED SEEDING RATE: 12.8KG/KA (11.4 LBS/ACRE)

ENERGY PUBLIC WORKS LAND DEVELOPMENT

MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANAZANITA, OREGON 97130

LANDSCAPE PLANS - 100%

Project No: 24231 Issue Date: 3/13/2025 LANDSCAPE PLANTING PLAN

KEY MAP

SCALE: NTS

100%

ISSUED FOR LANDSCAPING PLANS -

Know what's below.
Call before you dig.
CALL 2 BUSINESS DAYS BEFORE YOU DIG.
CAUTION UTILITY INFORMATION IS APPROXIMATE.
VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

SCALE: 1" = 30'

LINE IS 1" ON FULL SCALE DRAWING Revisions: /#



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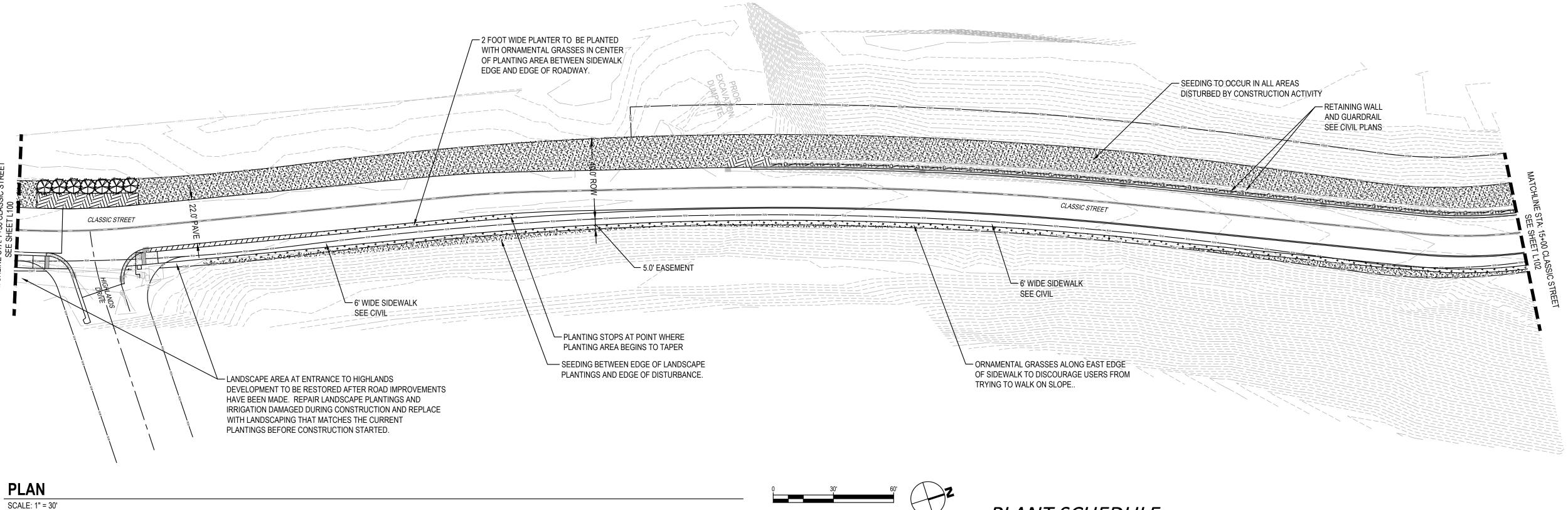
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www.mackaysposito.com

Project Manager JR
Drawn by EJC
Checked by EM



PLANT SCHEDULE

SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE		QTY
TREES	PIN CO5	PINUS CONTORTA / SHORE PINE	6` HT.		17
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	SPACING	QTY
GROUND	COVERS				
	ARC VAN	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE' / VANCOUVER JADE KINNIKINNICK	1 GAL.	24" o.c.	291
	FIN 22E	COAST RANGE ECO-REGEN / GRASS SEED MIXTURE FOR MAINTENANCE USE*	SEED		33,193 SF
	GAU SHA	GAULTHERIA SHALLON / SALAL	1 GAL.	36" o.c.	449
	PAN SHD	PANICUM VIRGATUM 'SHENANDOAH' / SHENANDOAH SWITCH GRASS	1 GAL.	24" o.c.	1,067
	SCH PRA	SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES' / PRAIRIE BLUES LITTLE BLUESTEM	1 GAL.	18" o.c.	357

*GRASS SEED MIXTURE FOR MAINTENANCE USE OREGON COAST RANGE (CR) ECO-REGON ELEVATION RANGE: 450-750 METERS (1200 M PEAKS): MOISTURE RANGE: 65-100+CM./YEAR

NOXIOUS (Y/N) WILDLIFE VALUE (COVER FORAGE) MATURE HEIGHT (CM) LIFE CYCLE PURE LIVE SEEDS/m2 SEEDING RATE GRAMS PLS/HA SEEDING RATE LBS. PLS/ACRE SPECIES (SCI NAME) SPECIES (COMMON NAME) RED FESCUE 1.15(45.8 OZ) FESTUCA RUBRA C/F 125 1298 **ELYMUS GLAUCUS** WILD RYE 4.22(16.7 OZ) C/F 125 4730 CALIFORNIA BROME 30-60 5325 4.75(188OZ) **BROMUS CARINATUS** 0.10(4.0OZ) AGROSTIS EXARATA SPIKE GRASS 30-50 113 30-60 1.2(47.0OZ) GLYCERIA OCCIDENTALIS C/F 1332 MANNAGRASS 500 SEEDS/m2 COVERAGE 12,800 GRAMS PLS/ha 11.4 LBS PLS/AC

NOMENCLATURE USE FOR SPECIES IS CONSISTENT WITH HITCHCOCK AND CRANQUIST 1973 AND/OR NAME USED IN SEED CATELOGUES RECOMMENDED SEEDING RATE: 12.8KG/KA (11.4 LBS/ACRE)



MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANAZANITA, OREGON 97130

LANDSCAPE PLANS - 100%

Project No: 24231 Issue Date: 3/13/2025 LANDSCAPE PLANTING PLAN

100%

FOR LANDSCAPING PLANS

ISSUED

KEY MAP

SCALE: NTS

Know what's **below. Call** before you dig. CALL 2 BUSINESS DAYS BEFORE YOU DIG.
CAUTION UTILITY INFORMATION IS APPROXIMATE.
VERIFY ALL UTILITIES PRIOR TO CONSTRUCTION.

LINE IS 1" ON FULL Revisions: /# SCALE DRAWING



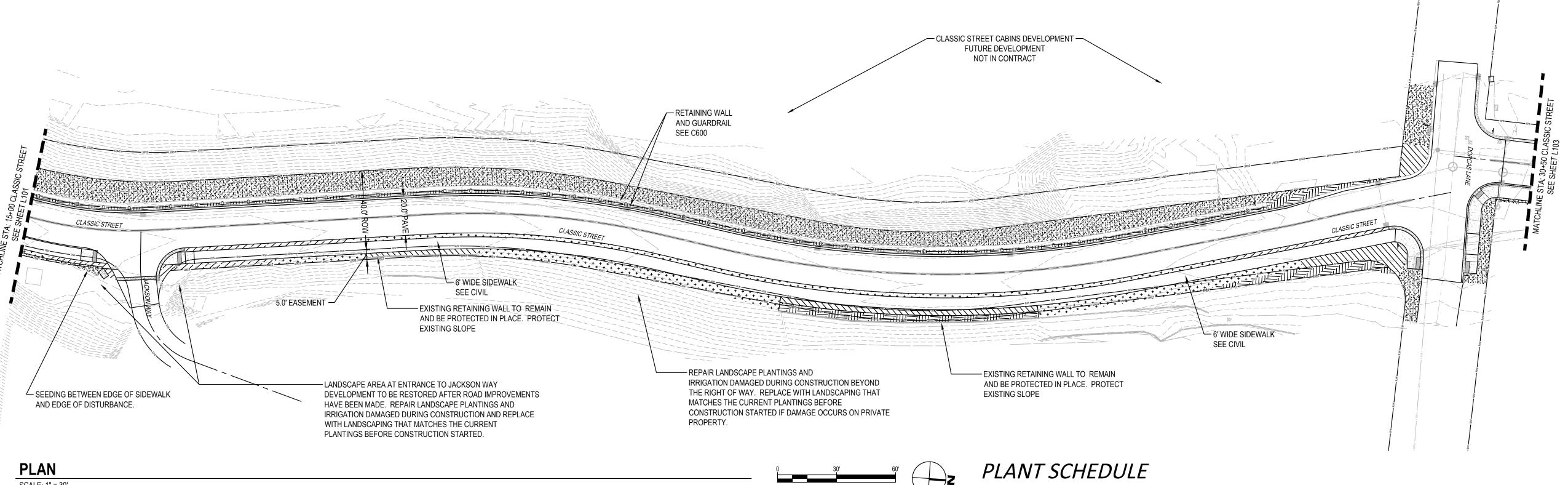
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Project Manager JR
Drawn by EJC
Checked by EM



SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE		QTY
TREES	PIN CO5	PINUS CONTORTA / SHORE PINE	6` HT.		17
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	SPACING	<u>QTY</u>
GROUND	COVERS				
	ARC VAN	ARCTOSTAPHYLOS UVA-URSI 'VANCOUVER JADE' / VANCOUVER JADE KINNIKINNICK	1 GAL.	24" o.c.	291
	FIN 22E	COAST RANGE ECO-REGEN / GRASS SEED MIXTURE FOR MAINTENANCE USE*	SEED		33,193 SF
	GAU SHA	GAULTHERIA SHALLON / SALAL	1 GAL.	36" o.c.	449
* * * * * * * * * * * * * * * * * * * *	PAN SHD	PANICUM VIRGATUM 'SHENANDOAH' / SHENANDOAH SWITCH GRASS	1 GAL.	24" o.c.	1,067
	SCH PRA	SCHIZACHYRIUM SCOPARIUM 'PRAIRIE BLUES' / PRAIRIE BLUES LITTLE BLUESTEM	1 GAL.	18" o.c.	357

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SPECIES (SCI NAME)	SPECIES (COMMON NAME)	NATIVE HABIT (Y/N)	NOXIOUS (Y/N) WIL	DLIFE VALUE (COVER FORAGE)	MATURE HEIGHT (CM) L	IFE CYCLE	PURE LIVE SEEDS/m2	SEEDING RATE GRAMS PLS/HA	SEEDING RATE LBS. PLS/ACRE
FESTUCA RUBRA	RED FESCUE	Υ	N	C/F	30-60	Р	125	1298	1.15(45.8 OZ)
ELYMUS GLAUCUS	WILD RYE	Υ	N	C/F	60+	Р	125	4730	4.22(16.7 OZ)
BROMUS CARINATUS	CALIFORNIA BROME	Υ	N	С	30-60	Р	75	5325	4.75(188OZ)
AGROSTIS EXARATA	SPIKE GRASS	Υ	N	С	30-50	Р	100	113	0.10(4.0OZ)
GLYCERIA OCCIDENTALIS	MANNAGRASS	Υ	N	C/F	30-60	Р	75	1332	1.2(47.0OZ)
						50	00 SEEDS/m2 COVERAGE	12,800 GRAMS PLS/ha	11.4 LBS PLS/AC

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LANDSCAPE PLANTING PLAN

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SCALE: 1" = 30'

LINE IS 1" ON FULL Revisions: /# SCALE DRAWING



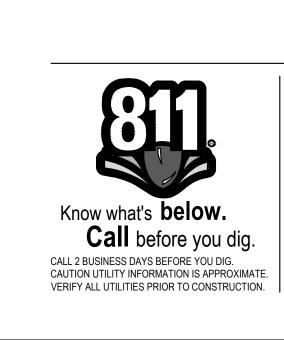
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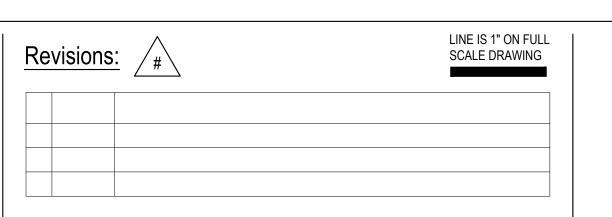
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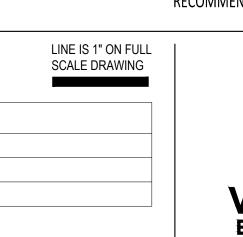


MacKay Sposito

Project No: 24231









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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANAZANITA, OREGON 97130

SCH PRA SCHIZACHYRIUM SCOPARIUM `PRAIRIE BLUES` / PRAIRIE BLUES LITTLE BLUESTEM 1 GAL. 18" o.c. 357

LANDSCAPE PLANS - 100%

Project No: 24231 Issue Date: 3/13/2025

KEY MAP

SCALE: NTS

STA: 30+50 CLASSIC STREET SEE SHEET L102	40.0' ROW	ANDSCAPE AREA ON WEST SIDE OF CONTREET ON THIS SHEET TO REMAIN AN PROTECTED. DAMAGED LANDSCAPE TO THE STATE OF THE STATE O	ND BE	RWW	
ਘ ■	22.0' PAVE		LANDSCAPE AREA ON EAST SIDE OF CLASSIC STREET ON THIS SHEET TO REMAIN. TRIM TREE BRANCHES THAT ARE ENCROACHING INTO NEW PATH. COORDINATE WITH OWNER'S REPRESENTATIVE PRIOR TO TRIMMING.	SEEDING BETWEEN EDGE OF SIDEWALK AND EDGE OF DISTURBANCE.	2000 - 20

PLAN

SCALE: 1" = 30' SYMBOL CODE BOTANICAL / COMMON NAME QTY PIN CO5 PINUS CONTORTA CONTORTA / SHORE PINE **BOTANICAL / COMMON NAME GROUND COVERS** COAST RANGE ECO-REGEN / GRASS SEED MIXTURE FOR MAINTENANCE USE* SEED GAU SHA GAULTHERIA SHALLON / SALAL PAN SHD PANICUM VIRGATUM 'SHENANDOAH' / SHENANDOAH SWITCH GRASS

*GRASS SEED MIXTURE FOR MAINTENANCE USE OREGON COAST RANGE (CR) ECO-REGON ELEVATION RANGE: 450-750 METERS (1200 M PEAKS): MOISTURE RANGE: 65-100+CM./YEAR

·	,	•								
PECIES (SCI NAME)	SPECIES (COMMON NAME)	NATIVE HABIT (Y/N)	NOXIOUS (Y/N) W	'ILDLIFE VALUE (COVER FORAGE)	MATURE HEIGHT (CM) LI	FE CYCLE	PURE LIVE SEEDS/m2	SEEDING RATE GRAMS PLS/HA	SEEDING RATE LBS. PLS/ACRE	
ESTUCA RUBRA	RED FESCUE	Υ	N	C/F	30-60	Р	125	1298	1.15(45.8 OZ)	
LYMUS GLAUCUS	WILD RYE	Υ	N	C/F	60+	Р	125	4730	4.22(16.7 OZ)	
ROMUS CARINATUS	CALIFORNIA BROME	Υ	N	С	30-60	Р	75	5325	4.75(188OZ)	
GROSTIS EXARATA	SPIKE GRASS	Υ	N	С	30-50	Р	100	113	0.10(4.0OZ)	
LYCERIA OCCIDENTALIS	MANNAGRASS	Υ	N	C/F	30-60	Р	75	1332	1.2(47.0OZ)	
						50	0 SEEDS/m2 COVERAGE	12,800 GRAMS PLS/ha	11.4 LBS PLS/AC	

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Project Manager JR
Drawn by EJC
Checked by EM

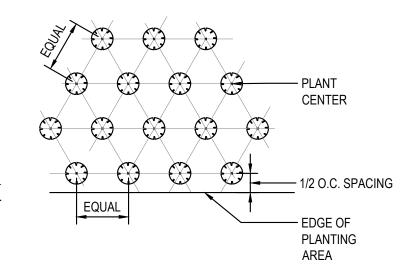
LANDSCAPE PLANTING PLAN

100%

ISSUED FOR LANDSCAPING PLANS -

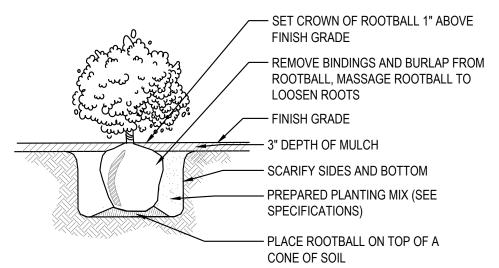
- 1. THE LANDSCAPE CONTRACTOR SHALL THOROUGHLY REVIEW THE SITE. IF THERE ARE ANY DISCREPANCIES BETWEEN THE PLAN AND THE EXISTING CONDITIONS THE CITY OF MANZANITA IS TO BE NOTIFIED IMMEDIATELY.
- 2. IF THE LANDSCAPE CONTRACTOR STARTS WORK BEFORE SITE CONDITIONS ARE READY OR CONTINUES WORK IN ADVERSE CONDITIONS WITHOUT PRIOR APPROVAL THEY WILL BE RESPONSIBLE FOR ANY ADDITIONAL COSTS RELATING TO THE CONDITION.
- 3. LANDSCAPE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE CITY CONCERNING ANY CONDITION AT ANY TIME DURING CONSTRUCTION THAT IS DETRIMENTAL TO THE HEALTH AND VIGOROUS GROWTH OF THE SPECIFIED PLANT MATERIAL.
- 4. PROVIDE QUANTITY OF PLANT MATERIAL INDICATED IN PLANT LIST OR THE QUANTITY REQUIRED TO COVER AREAS INDICATED AT SPECIFIED SPACING, WHICHEVER IS GREATER.
- 5. THE PLANT MATERIAL SHALL BE OF HIGH GRADE, AND SHALL MEET THE QUALITY AND SIZE STANDARDS OF THE AMERICAN NURSERY STANDARDS FOR NURSERY STOCK (ANSI Z60, 1)
- 6. TREES SHALL NOT BE PLANTED CLOSER THAN 5' FROM THE FACE OF THE CURB AND 2' FROM ANY PERMANENT HARD SURFACE PAVING OR WALKWAY. SPECIFIC LOCATION OF TREES PLANTED IN CLOSE PROXIMITY TO PROPOSED RETAINING WALLS TO BE APPROVED BY CITY PRIOR TO INSTALLATION.
- 7. THE LANDSCAPE CONTRACTOR SHALL STAKE TREE LOCATIONS AND OBTAIN APPROVAL BY THE CITY PRIOR TO INSTALLATION.
- 8. TREES, SHRUBS, PERENNIALS, GRASSES, AND GROUNDCOVER SHALL BE LOCATED AND SPACED AS SHOWN ON PLANS AND PER DETAILS.
- 9. A 3" LAYER OF BARK MULCH OVER A 3" LAYER OF COMPOST SHALL BE APPLIED TO ALL EXPOSED SOIL SURFACES WITHIN THE SHRUB PLANTING AREAS. COMPOST SHALL BE BLENDED WITH TOPSOIL. MULCH SHALL BE KEPT 3" CLEAR OF THE TRUNK AND/OR BARK OF ALL WOODY PLANTS.
- 10. PROVIDE STANDARD, COMMERCIALLY PRODUCED, MEDIUM—COARSE, DARK BROWN BARK MULCH. MULCH TO BE GROUND FIR OR HEMLOCK BARK OF UNIFORM COLOR, FREE FROM WEEDS. SEED, SAWDUST, AND SPLINTERS AND SHALL NOT CONTAIN RESIN, TANNIN, OR OTHER COMPOUNDS DETRIMENTAL TO PLANT LIFE. ALL MATERIAL SHALL PASS A 2-INCH MESH
- 11. SOIL IN ALL PLANTING AREAS TO BE AMENDED WITH AN ORGANIC OR SLOW-RELEASE FERTILIZER.
- 12. LEAVE PLANT NAME IDENTIFICATION TAGS ON TEN PERCENT OF ALL TREES AND SHRUBS INSTALLED TO AID INSPECTORS IN VERIFYING THAT SPECIFIED PLANTS HAVE BEEN INSTALLED.
- 13. WHERE PLANT BED SLOPE IS LESS THAN 3%, MOUND PLANTING BED AREA 3% MINIMUM FOR POSITIVE DRAINAGE.
- 14. SEE SPECIFICATIONS FOR FINAL INSPECTION, MAINTENANCE, AND WARRANTY REQUIREMENTS UNIQUE TO THIS PROJECT AND ADDITIONAL LANDSCAPE CONSTRUCTION REQUIREMENTS.
- 15. EXISTING TREES ON SITE TO BE PROTECTED AND PRESERVED. NOTIFY CITY OF DAMAGE OR POTENTIAL DAMAGE TO EXISTING TREES OR THE ROOT ZONE OF EXISTING TREES PRIOR TO CONSTRUCTION.

1. LOCATE GROUNDCOVER ONE HALF OF SPECIFIED SPACING DISTANCE FROM ANY CURB. SIDEWALK, OR OTHER HARD SURFACE, UNLESS OTHERWISE SPECIFIED 2. ALL GROUNDCOVER SHALL BE PLANTED AT EQUAL TRIANGULAR SPACING PER ON CENTER SPACING AS SPECIFIED ON PLANTING PLAN 3. SEE SPECIFICATIONS FOR SOIL PREPARATIONS FOR EACH PLANT.



- CONTAINER GROWN PLANT. REMOVE PLANT FROM CONTAINER AND SET CROWN OF PLANT 1" ABOVE FINISH VARIES — 3" DEPTH OF MULCH PLANTING BED AMENDED IMPORTED TOPSOIL- DEPTH AS SPECIFIED NATIVE SOIL

GROUNDCOVER PLANTING

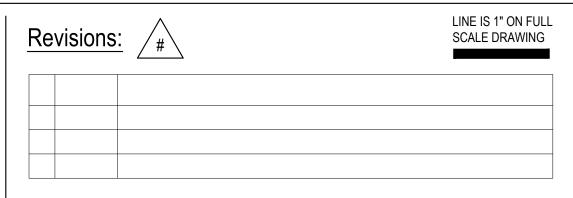


SHRUB PLANTING DETAIL

 TREES TO BE WATERED USING WATERING BAGS ON EACH TREE TEMPORARILY. 2. SEE SPECIFICATIONS FOR SOIL · 12 GAUGE WIRE WITH NYLON WEB TREE TIE. PROVIDE PREPARATIONS FOR EACH PLANT SLACK FOR 2" LATERAL MOVEMENT — 1/2" WHITE PVC PIPE- 4 FT. - TRUNK FLARE TO BE VISIBLE AT THE TOP OF ROOT BALL. DO NOT COVER WITH SOIL OR MULCH - SET TOP OF ROOT BALL FLUSH TO GRADE OR 1"-2" HIGHER IN SLOWLY DRAINING SOILS. - 4" HIGH EARTH SAUCER BEYOND EDGE OF ROOT BALL —— (3) 2"x2"x30" WOOD STAKES --- 6'-0" DIA. MIN. MULCH RING 3" DEEP. DO NOT PLACE MULCH IN CONTACT WITH TREE TRUNK. - CONDITION VARIES - REMOVE ALL TWINE, ROPE, WIRE AND BURLAP FROM TOP HALF OF ROOT BALL - PREPARED PLANTING MIX (SEE SPECS) — 1:1 SLOPE ON SIDES OF PLANTING HOLE - FIRMLY TAMP SOIL AROUND ROOT BALL BASE - ROOT BALL ON UNEXCAVATED SOIL 2 X ROOT BALL DIAMETER

EVERGREEN TREE PLANTING

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MANZANITA CLASSIC STREET 167 SOUTH 5TH STREET MANAZANITA, OREGON 97130

LANDSCAPE PLANS - 100%

Project No: 24231 Issue Date: 3/13/2025 LANDSCAPE PLANTING **NOTES AND DETAILS**

Project Manager ____<u>JR</u> Drawn by __<u>EJC</u> Checked by __<u>EM</u>