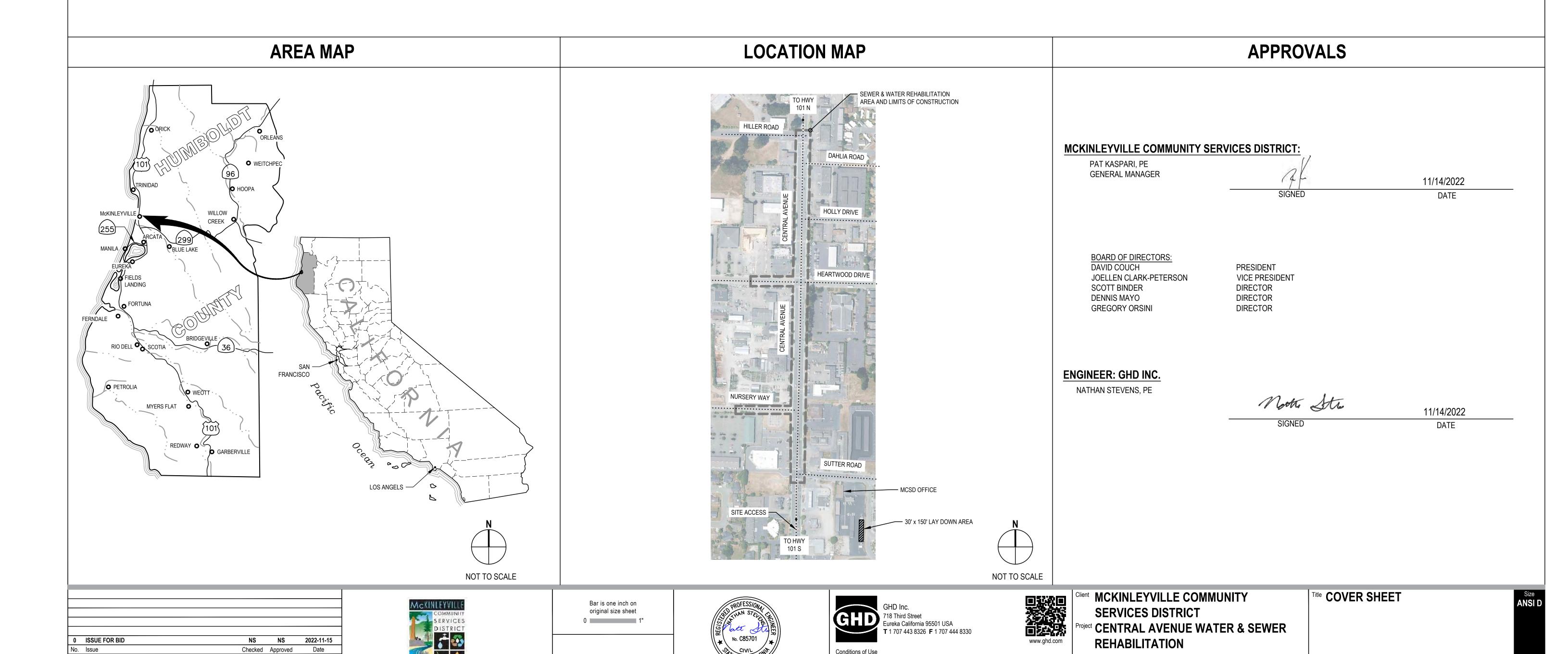
MCKINLEYVILLE COMMUNITY SERVICES DISTRICT CENTRAL AVENUE WATER & SEWER REHABILITATION

NOVEMBER 2022



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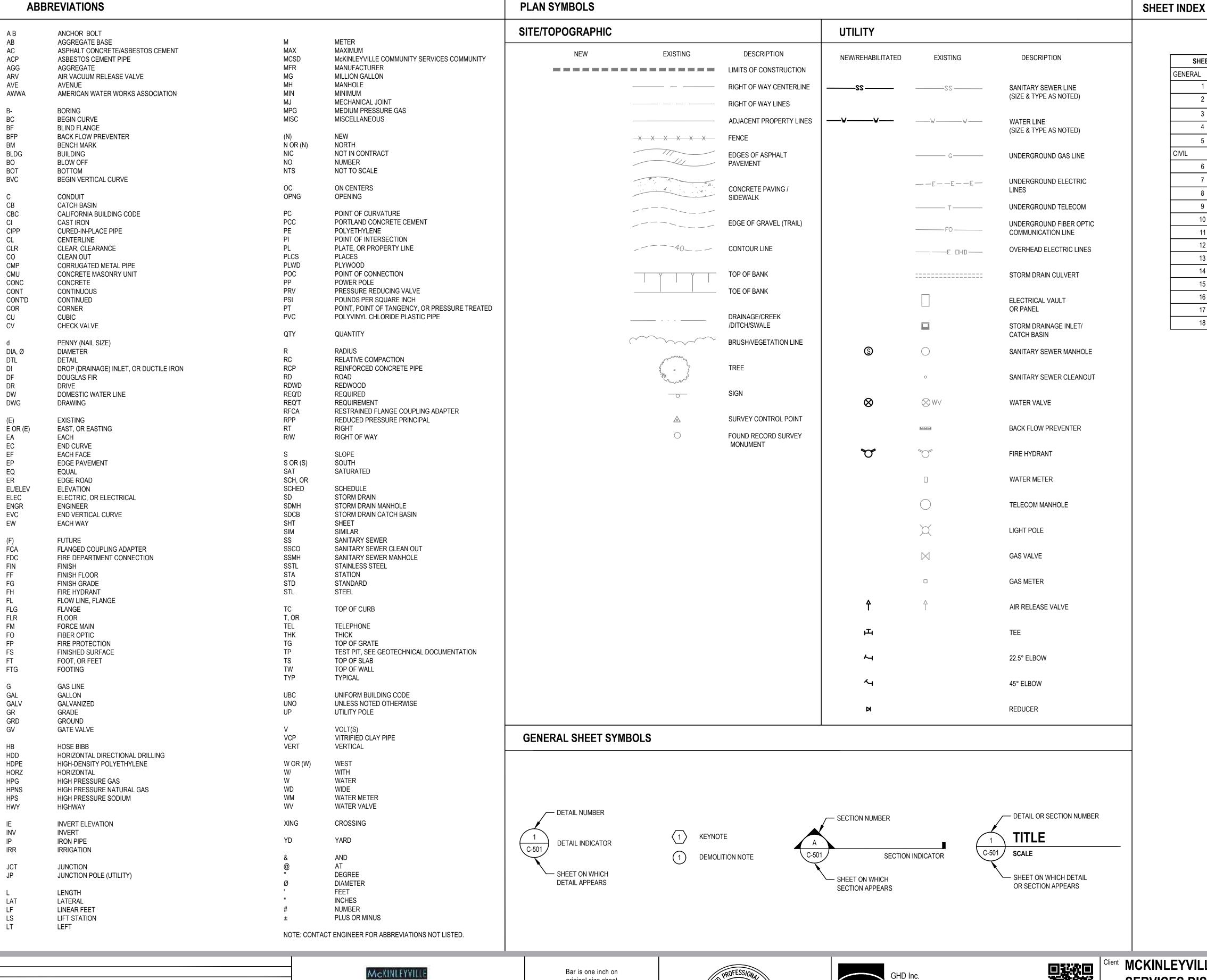
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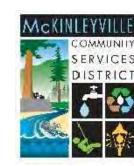
SHEET NO. TITLE SHEET GENERAL G-001 COVER SHEET 2 G-002 ABBREVIATIONS, SYMBOLS, LEGEND, & SHEET INDEX G-003 3 GENERAL NOTES G-004 SEWER LATERAL DATA 4 G-005 SITE INDEX 5 CIVIL C-101 SEWER REHAB PLAN - LINE 6.5, 1 OF 2 6 C-102 SEWER REHAB PLAN - LINE 6.5, 2 OF 2 & LINES C, C1, D, & D1 7 C-103 8 WATER MAIN PLAN AND PROFILE - LINE 1.0, 1 OF 5 C-104 WATER MAIN PLAN AND PROFILE - LINE 1.0, 2 OF 5 9 C-105 WATER MAIN PLAN AND PROFILE - LINE 1.0, 3 OF 5 10 C-106 11 WATER MAIN PLAN AND PROFILE - LINE 1.0, 4 OF 5 12 C-107 WATER MAIN PLAN AND PROFILE - LINE 1.0, 5 OF 5 WATER MAIN PLAN AND PROFILE - LINE 2.0 13 C--108 C-109 WATER MAIN PLAN AND PROFILE - LINE 3.0 14 C-501 15 CIVIL DETAILS 1 OF 4 C-502 16 CIVIL DETAILS 2 OF 4 C-503 17 CIVIL DETAILS 3 OF 4

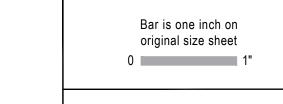
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Client MCKINLEYVILLE COMMUNITY **SERVICES DISTRICT** ject CENTRAL AVENUE WATER & SEWER **REHABILITATION**

2022-11-15

Title ABBREVIATIONS, SYMBOLS, **LEGEND, & SHEET INDEX**

Scale

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GENERAL NOTES

- 1. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING SITE CONDITIONS PRIOR TO THE COMMENCEMENT OF WORK AND REPORT ANY DISCREPANCIES TO THE OWNER. CONTRACTOR IS RESPONSIBLE FOR VISITING THE SITE AND BECOMING FAMILIAR WITH THE SITE CONDITIONS PRIOR TO BIDDING.
- 2. IT IS EXPECTED THAT THE ACTUAL LOCATION OF EXISTING UTILITIES MAY VARY FROM THAT SHOWN ON THE PLANS. CONTRACTOR SHALL POTHOLE AND LOCATE ALL EXISTING UTILITIES. VARIATIONS IN LOCATION AND DEPTH SHALL BE BROUGHT TO THE ATTENTION OF THE OWNER IMMEDIATELY SO THAT THE LOCATION OF UTILITIES MAY BE CHECKED WITH THE PROPOSED DESIGN. CONTRACTOR SHALL NOTIFY UNDERGROUND SERVICE ALERT PRIOR TO WORK COMMENCING FOR ANY EXCAVATION OR
- 3. CONTRACTOR IS RESPONSIBLE FOR CONFIRMING THAT NEW FEATURES TIE INTO EXISTING SITE DEVELOPMENT, PIPE JOINTS MATCH CORRECTLY, AND THAT GENERAL DESIGN ELEVATIONS FOR NEW CONSTRUCTION PROVIDE PROPER DRAINAGE SLOPES FROM EXISTING TIE IN POINTS, REPORT DISCREPANCIES TO OWNER PRIOR TO
- 4. THE DESIGN FEATURES INCLUDING HORIZONTAL AND VERTICAL ALIGNMENTS, TYPICAL SECTIONS, APPROACHES, AND OTHER DESIGN DETAILS SHOWN ON THESE DESIGN PLANS SHALL NOT BE ALTERED OR MODIFIED IN ANY WAY DURING CONSTRUCTION WITHOUT THE EXPRESSED, WRITTEN DIRECTION AND APPROVAL OF THE OWNER AND
- 5. UPON COMPLETION OF THE CONSTRUCTION PROJECT, THE CONTRACTOR SHALL LEAVE THE PROJECT AREA AND THE EXISTING ACCESS FREE OF DEBRIS AND UNUSED MATERIAL. ALL DAMAGE CAUSED BY THE CONTRACTOR SHALL BE RESTORED TO AN "AS GOOD OR BETTER" CONDITION.
- 6. CONTRACTOR TO MAINTAIN TRAFFIC (VEHICULAR AND PEDESTRIAN) ACCESS TO ALL AREAS OF PUBLIC RIGHT-OF-WAY AT ALL TIMES. CONTRACTOR TO COORDINATE ANY PROPOSED SHUT DOWNS WITH OWNER, HUMBOLDT COUNTY, AND EMERGENCY RESPONSE AGENCIES.
- 7. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING HUMBOLDT COUNTY ENCROACHMENT PERMIT AND PAYING THE ASSOCIATED FEES. SEE THE DRAFT HUMBOLDT COUNTY ENCROACHMENT PERMIT INCLUDED AS AN APPENDIX TO THE SPECIFICATIONS.
- 8. CONTRACTOR SHALL CONTACT THE OWNER TO COORDINATE WITH A CULTURAL AND ARCHEOLOGICAL MONITOR TO HAVE THE OPPORTUNITY TO BE PRESENT DURING ANY GROUND DISTURBING ACTIVITIES. SUCH MONITORS SHALL BE PAID FOR BY THE OWNER.
- 9. IN THE EVENT CULTURAL RESOURCES (I.E., HISTORICAL, ARCHAEOLOGICAL, AND PALEONTOLOGICAL RESOURCES, OR HUMAN REMAINS ARE DISCOVERED DURING GRADING OR OTHER CONSTRUCTION ACTIVITIES, WORK SHALL BE HALTED WITHIN A 100 FOOT RADIUS OF THE FIND. A QUALIFIED ARCHEOLOGIST SHALL BE CONSULTED FOR AN ON-SITE EVALUATION. ADDITIONAL MITIGATION MAY BE REQUIRED PER THE ARCHEOLOGIST'S RECOMMENDATIONS. IF HUMAN BURIALS OR HUMAN REMAINS ARE ENCOUNTERED, THE CONTRACTOR SHALL ALSO NOTIFY THE COUNTY CORONER. ARCHEOLOGISTS SHALL BE PAID FOR BY THE OWNER.
- 10. MATERIAL NOT SUITABLE FOR REUSE SHALL BE REMOVED FROM SITE AND DISPOSED OF IN A MANNER CONSISTENT WITH APPLICABLE REGULATIONS. THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY AND EXPENSE FOR LEGAL DISPOSAL OF ALL MATERIALS TAKEN FROM SITE.
- 11. THE CONTRACTOR SHALL SUBMIT A PROPOSED CONSTRUCTION SCHEDULE TO THE OWNER AT THE PRE-CONSTRUCTION MEETING SHOWING THE ORDER THEY INTEND TO CONSTRUCT ALL PORTIONS OF THIS PROJECT. THE OWNER SHALL PROVIDE EITHER APPROVAL OF THE CONTRACTOR'S SCHEDULE OR A LIST OF PROPOSED CHANGES TO THE SCHEDULE PRIOR TO CONSTRUCTION, AND THE CONTRACTOR SHALL ABIDE BY THAT APPROVED SCHEDULE THROUGHOUT THE COURSE OF THE PROJECT UNLESS OTHERWISE DIRECTED BY THE OWNER.
- 12. CONTRACTOR SHALL NOTIFY THE OWNER TWO (2) WEEKS PRIOR TO ANY CONSTRUCTION ACTIVITIES.
- 13. EXISTING ASBESTOS CEMENT PIPING EXPECTED ON SITE. CONTRACTOR TO PROPERLY HANDLE AND DISPOSE OF HAZARDOUS MATERIALS, SEE UTILITY NOTE 13 ON THIS SHEET.

UTILITY NOTES

- 1. LOCATIONS OF EXISTING UNDERGROUND UTILITIES ARE PLOTTED FROM INFORMATION AVAILABLE AND INTERPOLATION OF PHYSICAL EVIDENCE ON THE SITE AND ARE SUBJECT TO FIELD VERIFICATION BY THE CONTRACTOR. SEE GENERAL NOTES 1 AND 2, AND SURVEY NOTES.
- 2. ALL LOCATIONS FOR WORK SHALL BE CHECKED AND COORDINATED WITH EXISTING CONDITIONS IN THE FIELD BEFORE BEGINNING CONSTRUCTION.
- 3. THE WORKING DRAWINGS ARE GENERALLY DIAGRAMMATIC. THEY DO NOT SHOW EVERY OFFSET, BEND OR ELBOW REQUIRED FOR INSTALLATION IN THE SPACE PROVIDED. THEY DO NOT SHOW EVERY DIMENSION, COMPONENT PIECE, OR FITTING REQUIRED TO COMPLETE THE PROJECT. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A COMPLETE AND WORKING SYSTEM.
- 4. CONTRACTOR SHALL COORDINATE A UTILITY LOCATE A MINIMUM OF 72 HOURS PRIOR TO BEGINNING ANY UTILITY CONSTRUCTION FOR LOCATION MARK-UP OF ALL EXISTING UTILITIES. CONTRACTOR SHALL COORDINATE THE UTILITY LOCATE WITH OWNER FOR ALL UTILITY WORK. INFORM OWNER IMMEDIATELY IF LOCATE INDICATES THAT EXISTING UTILITIES ARE DIFFERENT THAN SHOWN ON DRAWINGS.
- 5. CONTRACTOR IS RESPONSIBLE FOR POTHOLING ALONG IN THE VICINITY OF THE IMPROVEMENTS TO IDENTIFY POTENTIAL UTILITY CONFLICTS, SOILS CONDITIONS, AND TIE-IN POINTS. CONTRACTOR RESPONSIBLE FOR MAKING ADJUSTMENTS IN CONFIGURATION TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
- CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES, FEATURES, AND STRUCTURES LOCATED ON THE SITE. LOCATE, PROTECT, AND AVOID DISRUPTION OF ALL ABOVE AND BELOW GRADE UTILITIES DURING CONSTRUCTION.
- 7. ALL BURIED LINES TO HAVE 30 INCHES MINIMUM COVER, UNLESS NOTED OTHERWISE.
- 8. THRUST BLOCKING REQUIRED ON ALL PRESSURE LINES, BENDS, AND FITTINGS UNLESS NOTED OTHERWISE. SEE STANDARD THRUST BLOCKING DETAIL. RESTRAINED FITTINGS DO NOT REQUIRE THRUST BLOCKS IN THE DIRECTION UNO.
- 9. ALL EXISTING UTILITIES AND TIE-IN POINTS SHOULD BE CONSIDERED ACTIVE UTILITIES UNLESS OTHERWISE INDICATED.
- 10. CONFIRM ALL UTILITY VALVE VAULTS, VALVES, METERS, BACKFLOW PREVENTION ASSEMBLIES, AND OTHER PUBLIC UTILITY APPURTENANCES IN THE RIGHT-OF-WAY WITH
- 11. ALL BOLTS USED FOR UNDERGROUND CONNECTIONS SHALL BE STAINLESS STEEL. BOLTED JOINTS SHALL BE WRAPPED WITH POLYETHYLENE FILM PER SPECIFICATION 33 14 00 PRIOR TO BACKFILLING.
- 12. CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION AND THE SAFETY OF ALL WORK SITES. ADEQUATE SHORING BRACING, TIES, AND SUPPORTS SHALL BE USED TO PROVIDE PROPER TEMPORARY INTEGRITY DURING ALL PHASES OF CONSTRUCTION PER CAL OSHA REQUIREMENTS.
- 13. REMOVAL OR IMPACTION OF AC PIPING SHALL BE IN ACCORDANCE WITH APPLICABLE REGULATIONS, INCLUDING 8CCR1529. CONTRACTOR(S) IMPACTING AC PIPE SHALL HOLD APPROPRIATE LICENSURE TO CONDUCT THE WORK. CONTRACTOR(S) MUST PROVIDE APPROPRIATE TRAINING AND PERSONAL PROTECTIVE EQUIPMENT TO WORKERS EXPOSED TO ASBESTOS. AT MINIMUM, TRAINING SHALL BE IN ACCORDANCE WITH 8CCR1529(R)(1) AND 8CCR5194. TRAINING PER 8CCR5194 MUST INCLUDE ALL HAZARDS TO WHICH THE CONTRACTOR'S WORKERS ARE EXPOSED. PERSONAL PROTECTIVE EQUIPMENT SHALL BE APPROPRIATE FOR THE AIRBORNE ASBESTOS EXPOSURES GENERATED BY THE WORK AND SELECTED IN ACCORDANCE WITH 8CCR1529. SUPERVISORS INVOLVED IN AC PIPE WORK SHALL BE TRAINED AND CERTIFIED BY AN AC PIPE TRAINING PROGRAM APPROVED BY CAL/OSHA. AC PIPE REMOVED SHALL BE WRAPPED AND DISPOSED OF PER APPLICABLE REQUIREMENTS.

GRADING NOTES

- THE CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF ALL SURVEY DATA. CONTRACTOR IS RESPONSIBLE FOR ESTABLISHING RIGHT- OF-WAY LINES, SLOPE, EASEMENTS, AND ALL HORIZONTAL AND VERTICAL CONTROL PRIOR TO CONSTRUCTION.
- CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING AND SHALL ARRANGE FOR STAKING WITH A LICENSED SURVEYOR.
- 3. ALL DITCHES, SWALES, GUTTERS, ETC. SHOULD BE CONSIDERED ACTIVE STORM CONVEYANCES UNLESS OTHERWISE INDICATED. CONTRACTOR IS RESPONSIBLE FOR ADDRESSING STORM WATER DRAINAGE AND DEWATERING OF WORK AREAS DURING CONSTRUCTION.

2. HORIZONTAL CONTROL IS NAD83 (2011) CALIFORNIA STATE PLANE ZONE 1, FEET. VERTICAL CONTROL IS NORTH AMERICAN VERTICAL DATUM 1988.

1. ORIGINAL TOPOGRAPHIC SURVEY WAS PERFORMED BY POINTS WEST SURVEYING CO., DATED JANUARY AND FEBRUARY 2022.

- 3. TOPOGRAPHIC SURVEYS DO NOT NECESSARILY REPRESENT THE CURRENT SITE CONDITIONS. CONTRACTOR TO VERIFY SITE CONDITIONS.
- 4. UNDERGROUND UTILITIES ARE SHOWN BASED ON APPURTENANCES VISIBLE IN THE FIELD, MAPPING PROVIDED BY MCSD, AT&T, AND PG&E, AND UTILITY PAINT MARKS FOUND IN THE FIELD.
- 5. THE 100' WIDE RIGHT OF WAY FOR CENTRAL AVENUE IS SHOWN HEREON BASED ON THE RECORD OF SURVEY PREPARED BY JOHN MURRAY AND RECORDED IN BOOK 44 OF SURVEYS, PAGE 119. THIS SURVEY LOCATED THE 1/4 CORNER COMMON TO SECTIONS 5 AND 6 AS WELL AS THE NORTHWEST CORNER OF SECTION 5, TOWNSHIP 6 NORTH, RANGE 1 EAST.
- 6. THIS SURVEY LOCATED EXISTING SURVEY MONUMENTS WITHIN THE LIMITS OF THE TOPOGRAPHIC SURVEY. AS SHOWN HEREON, IF SURVEY MONUMENTS WILL BE DISTURBED BY CONSTRUCTION, A CORNER RECORD MUST BE FILED PRIOR TO THE DESTRUCTION OF EACH MONUMENT. AFTER CONSTRUCTION, MONUMENTS MUST BE REPLACED, AND AN ADDITIONAL CORNER RECORD FILED TO SHOW THE REPLACEMENT.
- 7. LANDSCAPE TREES WITHIN THE RIGHT OF WAY ARE SHOWN HEREON. NUMEROUS TREES WERE LOCATED IN FRONT OF THE LANDS OF LATTER DAY SAINTS CHURCH, ADJACENT TO THE WALKING TRAIL, BUT OUTSIDE OF THE 100 FOOT WIDE RIGHT OF WAY FOR CENTRAL AVENUE.
- 8. UNDERGROUND UTILITIES ARE SHOWN BASED ON A COMBINATION OF VISIBLE PHYSICAL EVIDENCE AND RECORDS MADE AVAILABLE TO THE SURVEYOR. THE SURVEYOR MAKES NO GUARANTEES THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES ARE IN THE EXACT LOCATIONS INDICATED. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.
- 9. PG&E PROVIDED SCHEMATIC MAPPING ONLY FOR UNDERGROUND GAS AND ELECTRIC AND STATED THAT ANY ACTIVITY IN THIS AREA WILL REQUIRE CALLING UNDERGROUND SERVICE ALERT (USA). THE UNDERGROUND ELECTRIC SHOWN HEREON IS DRAWN FROM THE BEST AVAILABLE INFORMATION. IT SHOULD BE NOTED THAT THERE IS A SECOND ELECTRIC TRENCH IN THE PROJECT VICINITY THAT IS NOT SHOWN HEREON. MAPPING OF TELEPHONE IS BASED ON SCHEMATIC MAPPING PROVIDED BY AT&T AND CABLE UTILITIES WERE NOT PROVIDED TO THE SURVEYOR AND ARE NOT SHOWN HEREON.

GEOTECHNICAL NOTES

SURVEY NOTES

PROJECT SHALL BE CONSTRUCTED IN CONFORMANCE WITH THE FINAL GEOTECHNICAL ENGINEERING REPORT TITLED "MCSD CENTRAL AVE WATER AND SEWER MAINS, McKINLEYVILLE, CA" PREPARED BY CRAWFORD & ASSOCIATES, INC., DATED MARCH 2022. THE REPORT HAS BEEN INCLUDED AS AN APPENDIX TO THE PROJECT DOCUMENTS. CONTRACTOR SHALL NOTE ANTICIPATED SUBSURFACE CONDITIONS WITH REGARD TO EXCAVATION OPERATIONS AND ANTICIPATED GROUNDWATER CONDITIONS WITH REGARD TO EXCAVATION AND CIPP LINING OPERATIONS.

SURFACE RESTORATION AND STRIPING NOTES

- 1. ALL STRIPING SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE CALIFORNIA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, CALTRANS STANDARD PLANS AND STANDARD SPECIFICATIONS.
- 2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF NEW LAYOUT FOR ANY STRIPING PER PLAN.
- 3. NEW PROPOSED STRIPING AND MARKING SHALL BE INSTALLED THE SAME DAY AS THE REMOVAL OF EXISTING STRIPING AND MARKING. IF NOT, CONTRACTOR WILL PROVIDE TEMPORARY PAVEMENT MARKINGS UNTIL NEW STRIPING IS INSTALLED.
- 4. THE CONTRACTOR SHALL NOTIFY THE OWNER AND THE COUNTY A MINIMUM OF 48 HOURS PRIOR TO THE DAY OF LAYOUT OF THE NEW STRIPING.
- CONTRACTOR TO PERFORM ALL UTILITY WORK PRIOR TO SURFACE RESTORATION WORK.
- ALL RED CURB PAINT AND OTHER DAMAGED PAINT AND STRIPING SHALL BE REPLACED IN-KIND.
- 7. CONTRACTOR SHALL REPAIR ALL SURFACE IMPROVEMENTS DAMAGED BY CONSTRUCTION.
- 8. ALL EXISTING LANDSCAPED AND UNPAVED AREAS WHICH ARE DISTURBED BY CONSTRUCTION OR EARTHWORK OPERATIONS SHALL BE HAND RAKED SMOOTH AND RETURNED TO ORIGINAL EXISTING CONDITIONS.

VEGETATION PROTECTION AND RESTORATION NOTES

- 1. NO CUTTING OF ANY PART OF TREES, INCLUDING ROOTS, SHALL BE DONE WITHOUT SECURING APPROVAL FROM OWNER.
- WHEN CONSTRUCTION OCCURS WITHIN DRIP LINE ON EXISTING TREES, CONTRACTOR IS TO PILE THE SOIL ON THE SIDE AWAY FROM THE TREE. WHEN THIS IS NOT POSSIBLE, PLACE SOIL ON PLYWOOD. A TARP, OR THICK BED OF MULCH. THIS IS TO HELP PREVENT CUTTING INTO THE SOIL SURFACE WHEN THE BACKHOE OR TRACTOR BLADE REFILLS THE TRENCH.
- WHEN ROOTS 2" OR LARGER MUST BE CUT, SHOVEL BY HAND NEAR THE ROOTS AND SAW THE ROOTS. ACCIDENTALLY BROKEN ROOTS SHOULD BE SAWED A COUPLE OF INCHES BEHIND THE RAGGED END. CRUSHED OR TORN ROOTS ARE MORE LIKELY TO ALLOW DECAY TO BEGIN; SHARPLY CUT ROOTS PRODUCE A FLUSH OF NEW ROOTS HELPING THE TREE TO RECOVER FROM ITS INJURY.
- 4. MATERIALS, EQUIPMENT, TEMPORARY BUILDINGS, FUELS, PAINTS AND OTHER CONSTRUCTION ITEMS ARE NOT TO BE PLACED WITHIN THE DRIP LINE OF EXISTING TREES.
- 5. GRADING SHALL NOT CREATE DRAINAGE PROBLEMS FOR TREES BY CHANNELING WATER INTO THEM, OR CREATING SUNKEN AREAS.
- LANDSCAPING THAT IS REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED IN KIND.

TRAFFIC CONTROL NOTES

- CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS. INCLUDING HUMBOLDT COUNTY ENCROACHMENT PERMIT TO SET UP TRAFFIC CONTROL PRIOR TO STARTING ANY CONSTRUCTION WORK. THE TRAFFIC CONTROL PLAN SHALL COMPLY WITH ALL REQUIRED PERMITS AND OTHER GUIDELINES LISTED ON THESE PLANS AND IN THE SPECIFICATIONS.
- 2. CONTRACTOR SHALL COORDINATE WITH HUMBOLDT COUNTY ON ALL TRAFFIC CONTROL AND ACTIVITIES WITHIN THE COUNTY RIGHT-OF-WAY.
- TRAFFIC CONTROL PLAN SHALL CLEARLY EXPLAIN THE POSITION OF FLAGGERS, SIGNS, AND OTHER REQUIRED TRAFFIC CONTROL DEVICES THROUGHOUT THE WORK AREA DURING ALL PHASES OF CONSTRUCTION.
- 4. THE CONTRACTOR SHALL COORDINATE WITH ALL BUSINESSES POTENTIALLY AFFECTED BY CONTRACTOR'S CONSTRUCTION PLANS. TRAFFIC CONTROL PLAN SHALL SHOW HOW ACCESS TO BUSINESSES WILL BE MAINTAINED THROUGHOUT THE PROJECT.
- 5. THE TRAFFIC CONTROL PLAN SHALL ALSO ADDRESS ANY IMPACTS TO PEDESTRIAN PATHS OF TRAVEL.

EROSION CONTROL NOTES

EC-4 HYDROSEEDING

SE-1 SILT FENCE

SE-5 FIBER ROLLS

- AT A MINIMUM, THE CONTRACTOR SHALL EMPLOY THE FOLLOWING BEST MANAGEMENT PRACTICES (BMPS) AS DESCRIBED IN THE CURRENT CALIFORNIA STORMWATER BMP HANDBOOK FOR CONSTRUCTION (WWW.CASQA.ORG):
 - EC-1 SCHEDULING

SE-7 STREET SWEEPING AND VACUUMING

NS-9 VEHICLE EQUIPMENT AND FUELING

- EC-2 PRESERVATION OF EXISTING VEGETATION
 - WM-2 MATERIAL USE WM-3 STOCKPILE MANAGEMENT
 - WM-4 SPILL PREVENTION AND CONTROL
 - WM-5 SOLID WASTE MANAGEMENT

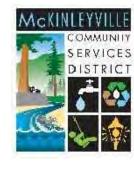
NS-10 VEHICLE & EQUIPMENT MAINTENANCE

WM-1 MATERIALS DELIVERY AND STORAGE

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

THE CONTRACTOR SHALL KEEP ONE LANE OF TRAFFIC OPEN THROUGH THE WORK AREA AT ALL TIMES UNLESS OTHERWISE APPROVED BY HUMBOLDT COUNTY. THE

0 ISSUE FOR BID NS NS 2022-11-15 Checked Approved Date Author M. GONZALES Drafting Check L. HALONEN Project Manager N. STEVENS Designer M. GONZALES Design Check L. HALONEN Project Director G. WATANABE Plot Date: 10 November 2022 - 5:25 PM Plotted By: Malia Gonzales



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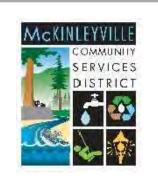
Title GENERAL NOTES

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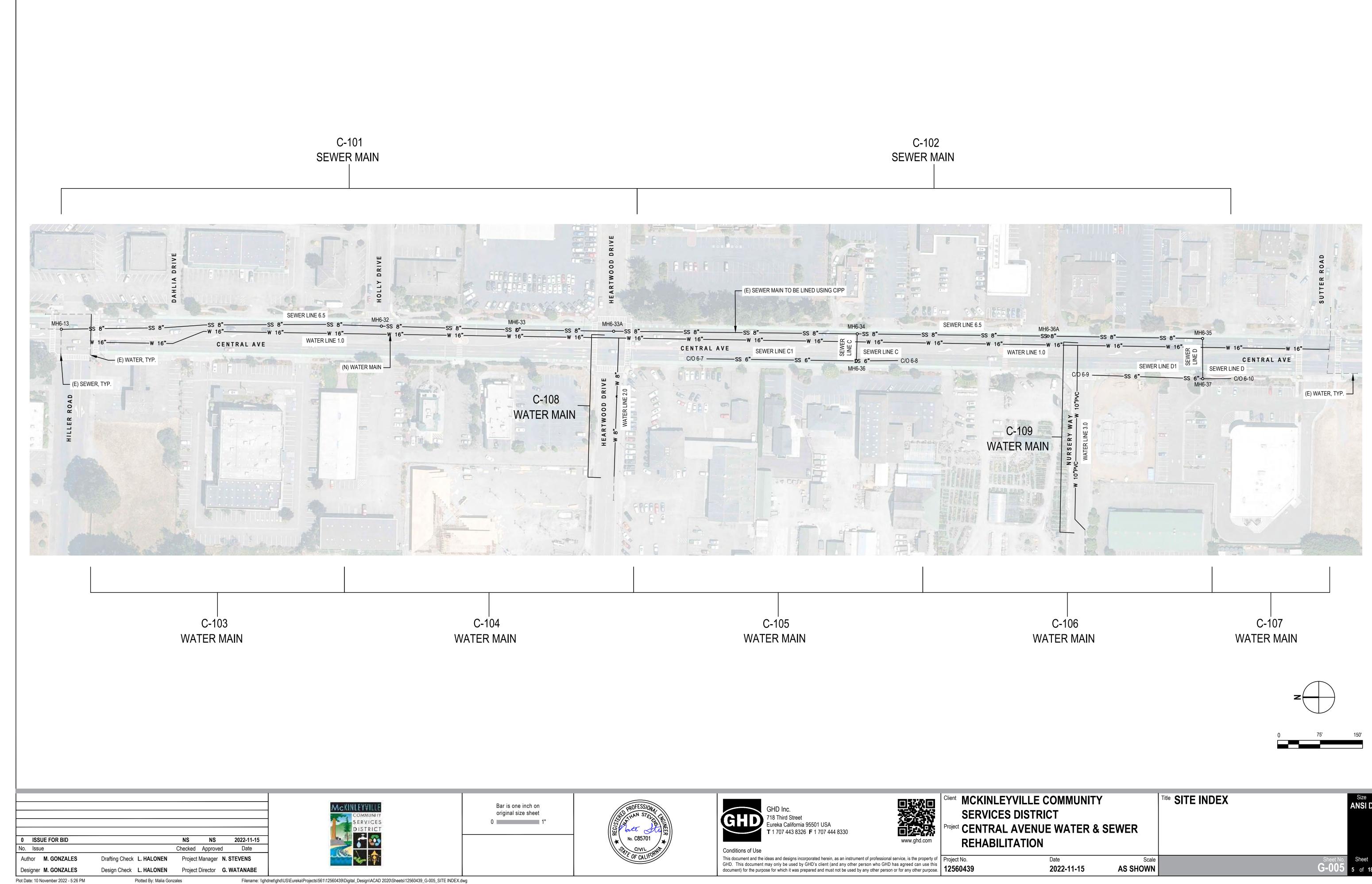
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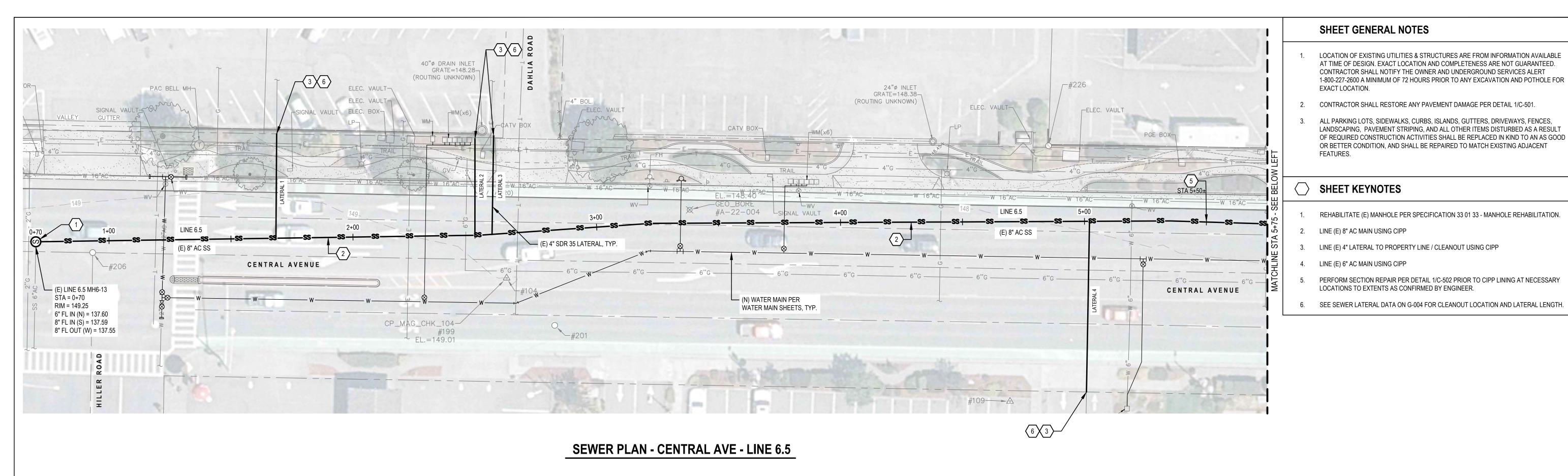


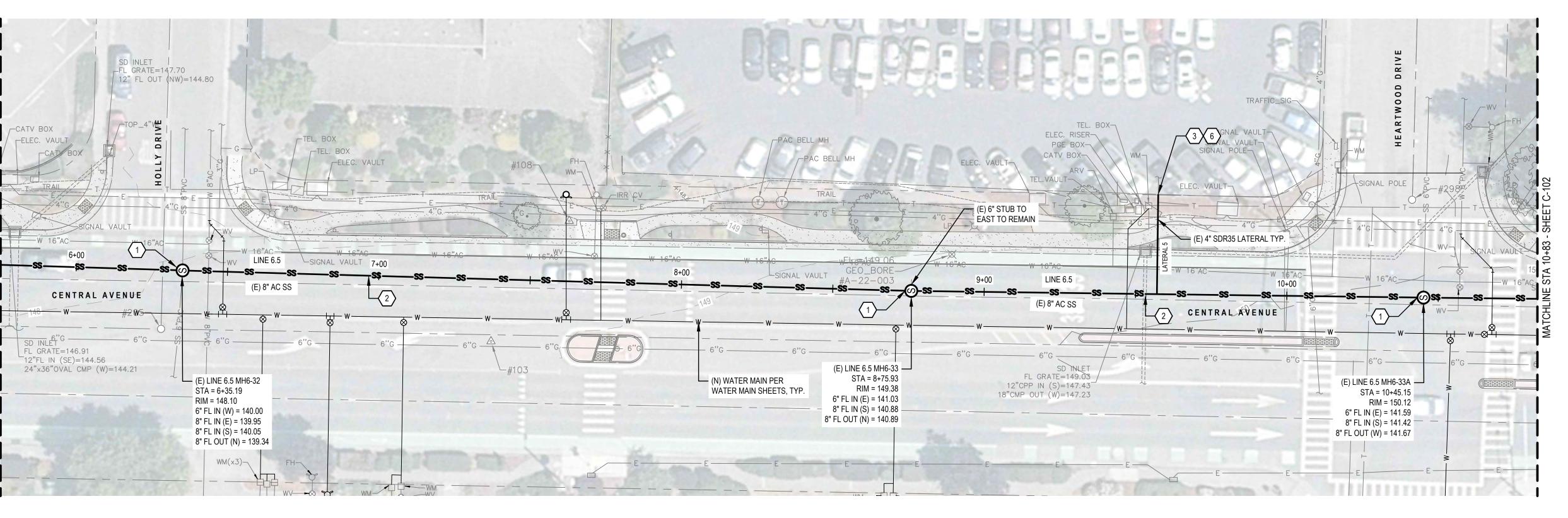


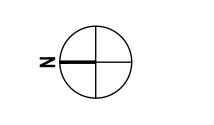
Client MCKINLEYVILLE COMMUNITY
SERVICES DISTRICT
Project CENTRAL AVENUE WATER & SEWER
REHABILITATION

Title SEWER LATERAL DATA

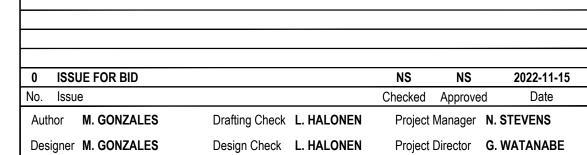








SEWER PLAN - CENTRAL AVE - LINE 6.5



Plotted By: Malia Gonzales

DISTRICT

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SERVICES DISTRICT
Project CENTRAL AVENUE WATER & SEWER
REHABILITATION

2022-11-15

Client MCKINLEYVILLE COMMUNITY

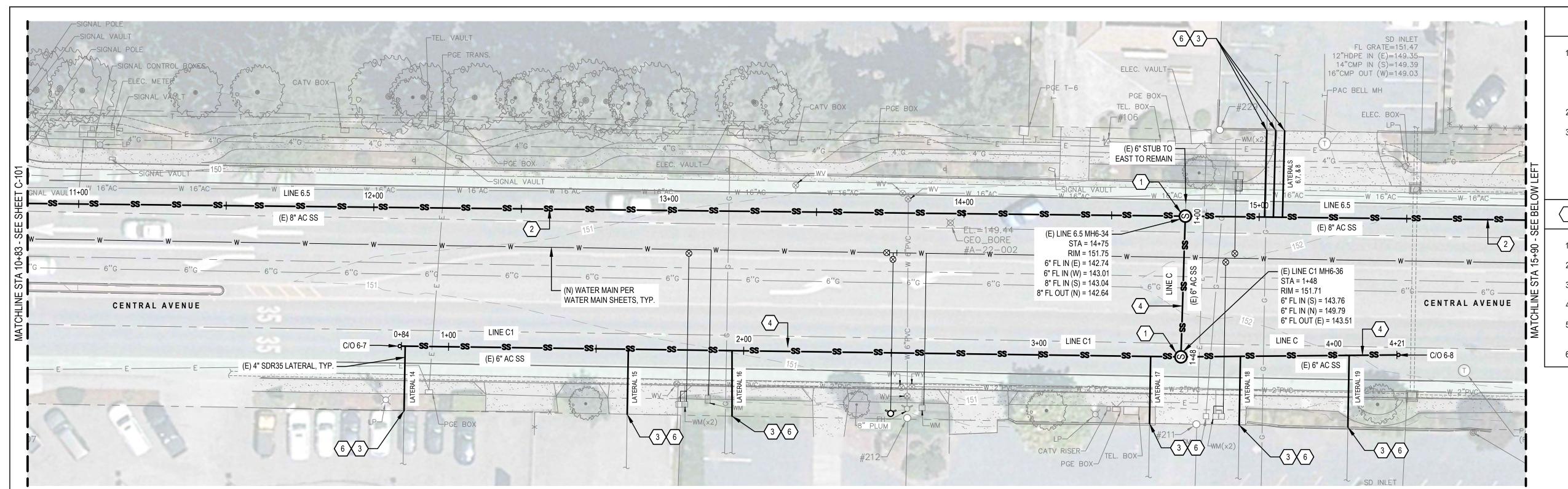
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Scale

AS SHOWN

Title SEWER REHAB PLAN - LINE 6.5, 1

Size ANSI D

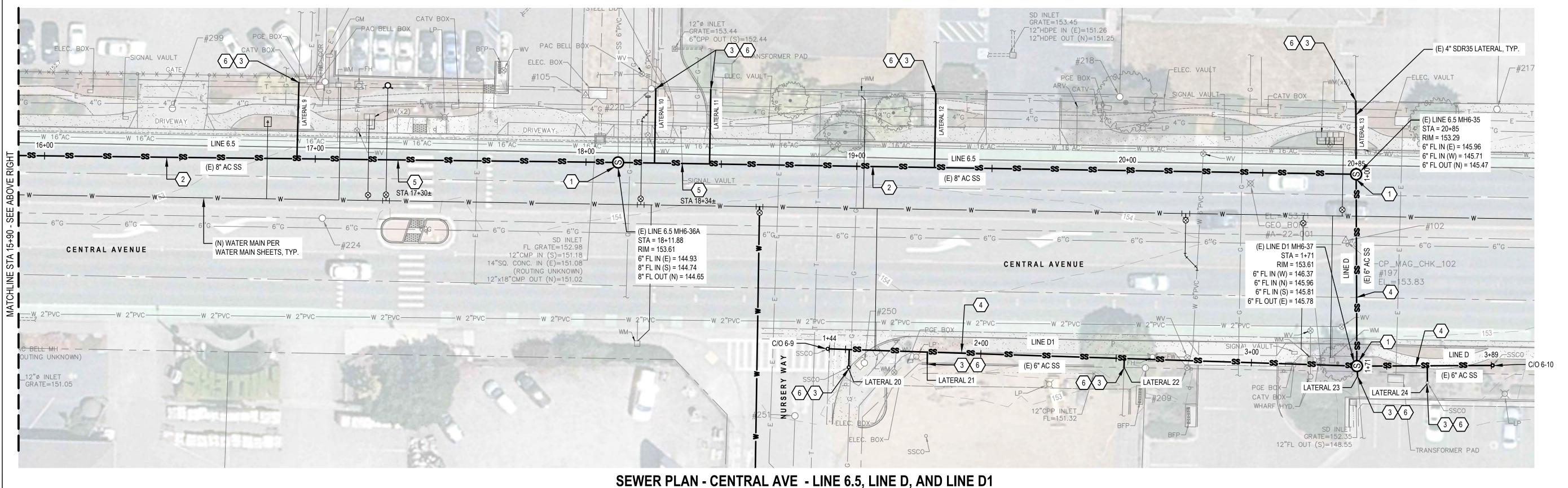


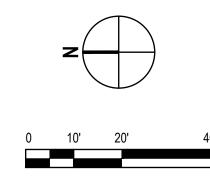
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- ALL PARKING LOTS, SIDEWALKS, CURBS, ISLANDS, GUTTERS, DRIVEWAYS, FENCES, LANDSCAPING. PAVEMENT STRIPING. AND ALL OTHER ITEMS DISTURBED AS A RESULT OF REQUIRED CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND TO AN AS GOOD OR BETTER CONDITION, AND SHALL BE REPAIRED TO MATCH EXISTING ADJACENT

SHEET KEYNOTES

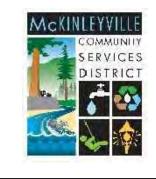
- REHABILITATE (E) MANHOLE PER SPECIFICATION 33 01 33 MANHOLE REHABILITATION.
- LINE (E) 8" AC MAIN USING CIPP
- 3. LINE (E) 4" LATERAL TO PROPERTY LINE / CLEANOUT USING CIPP
- 4. LINE (E) 6" AC MAIN USING CIPP
- PERFORM SECTION REPAIR PER DETAIL 1/C-502 PRIOR TO CIPP LINING AT NECESSARY LOCATIONS TO EXTENTS AS CONFIRMED BY ENGINEER.
- 6. SEE SEWER LATERAL DATA ON G-004 FOR CLEANOUT LOCATION AND LATERAL LENGTH.

SEWER PLAN - CENTRAL AVE - LINE 6.5, LINE C, AND LINE C1





0 ISSUE FOR BID		NS	NS	2022-11-15
No. Issue		Checked	Approved	Date
Author M. GONZALES	Drafting Check L. HALONEN	Project	Manager N	. STEVENS
Designer M. GONZALES	Design Check L. HALONEN	Project	Director G	. WATANABE



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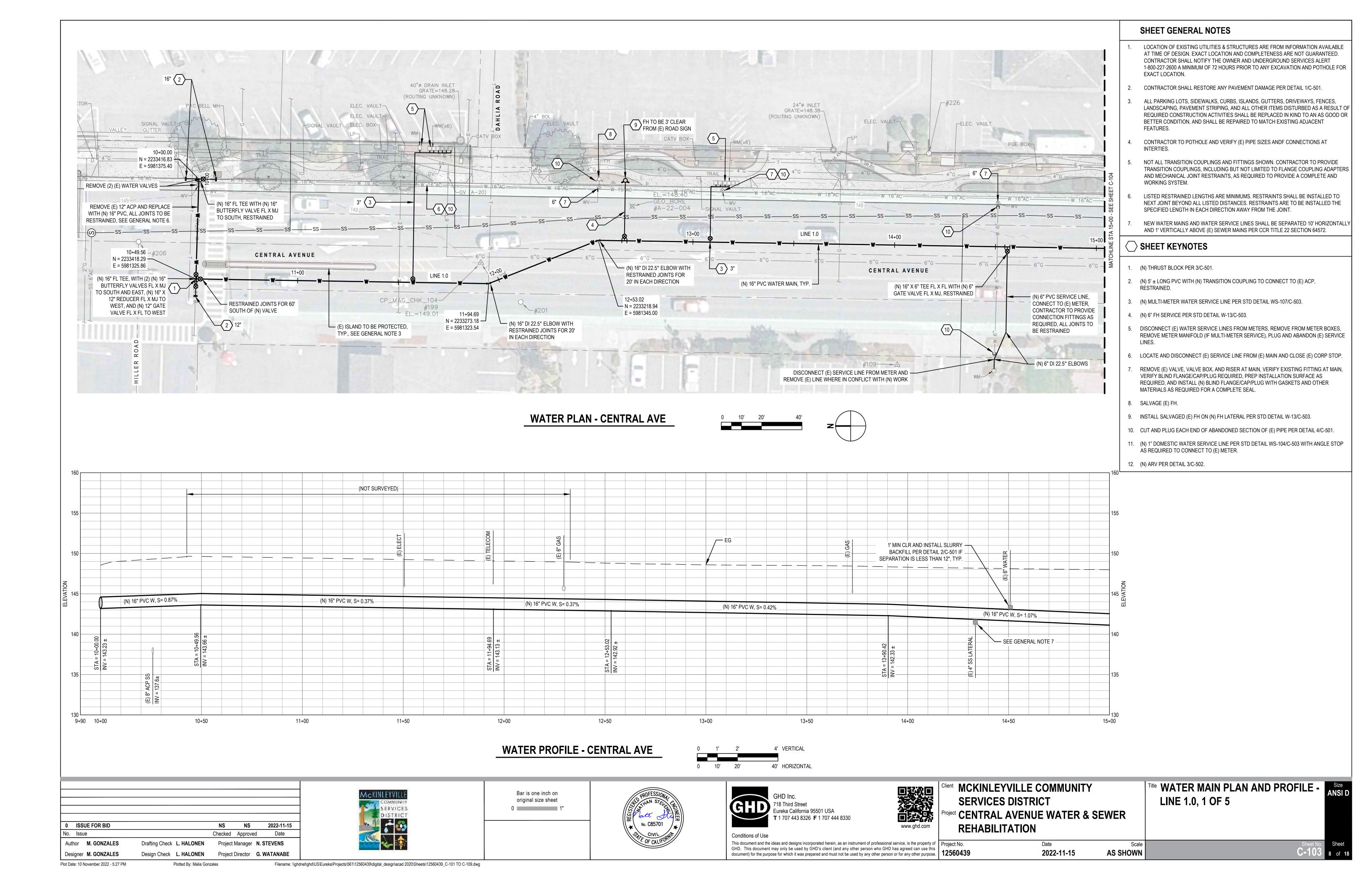
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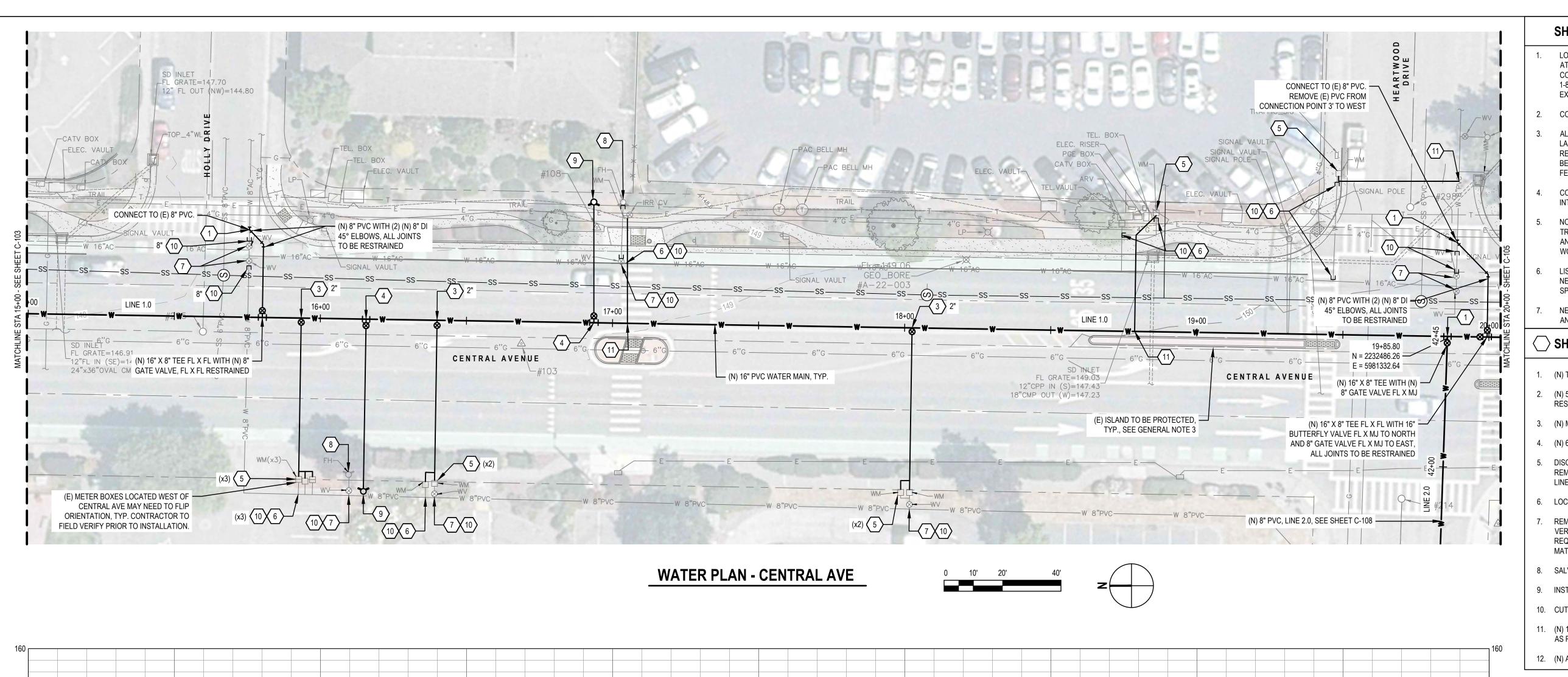
SERVICES DISTRICT ect CENTRAL AVENUE WATER & SEWER **REHABILITATION**

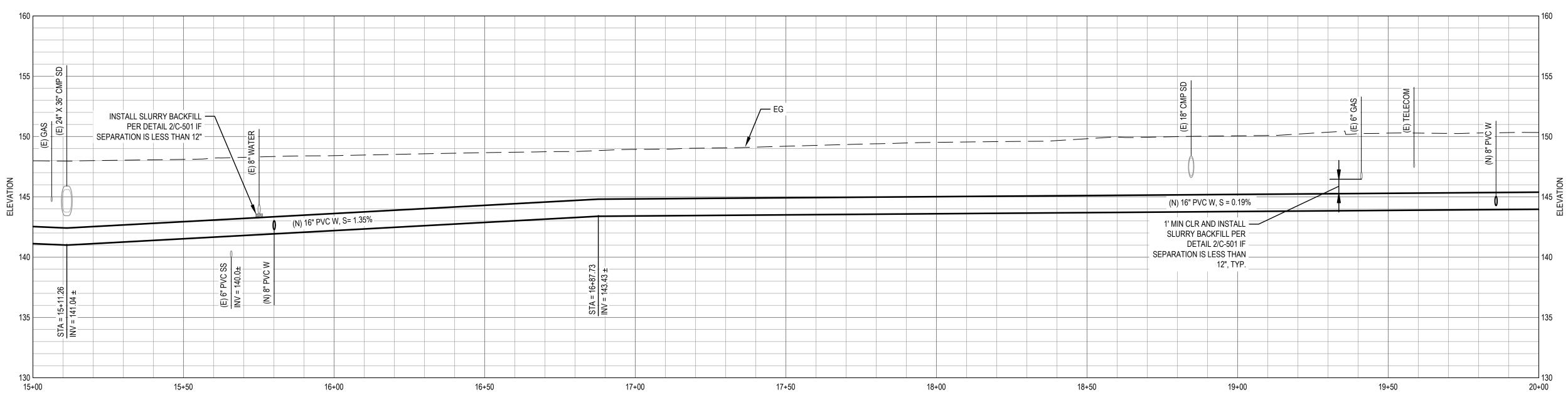
Client MCKINLEYVILLE COMMUNITY

Title SEWER REHAB PLAN – LINE 6.5, 2 Size ANSI D OF 2 & LINES C, C1, D, & D1

Scale 2022-11-15 AS SHOWN





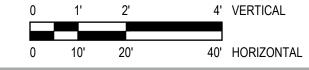


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⟨ ⟩ SHEET KEYNOTES

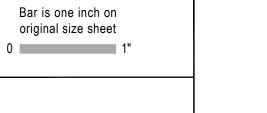
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 - 12. (N) ARV PER DETAIL 3/C-502.

WATER PROFILE - CENTRAL AVE



0 ISSUE FOR BID NS NS 2022-11-15 Checked Approved Author M. GONZALES Project Manager N. STEVENS Drafting Check L. HALONEN Design Check L. HALONEN Project Director G. WATANABE Designer M. GONZALES

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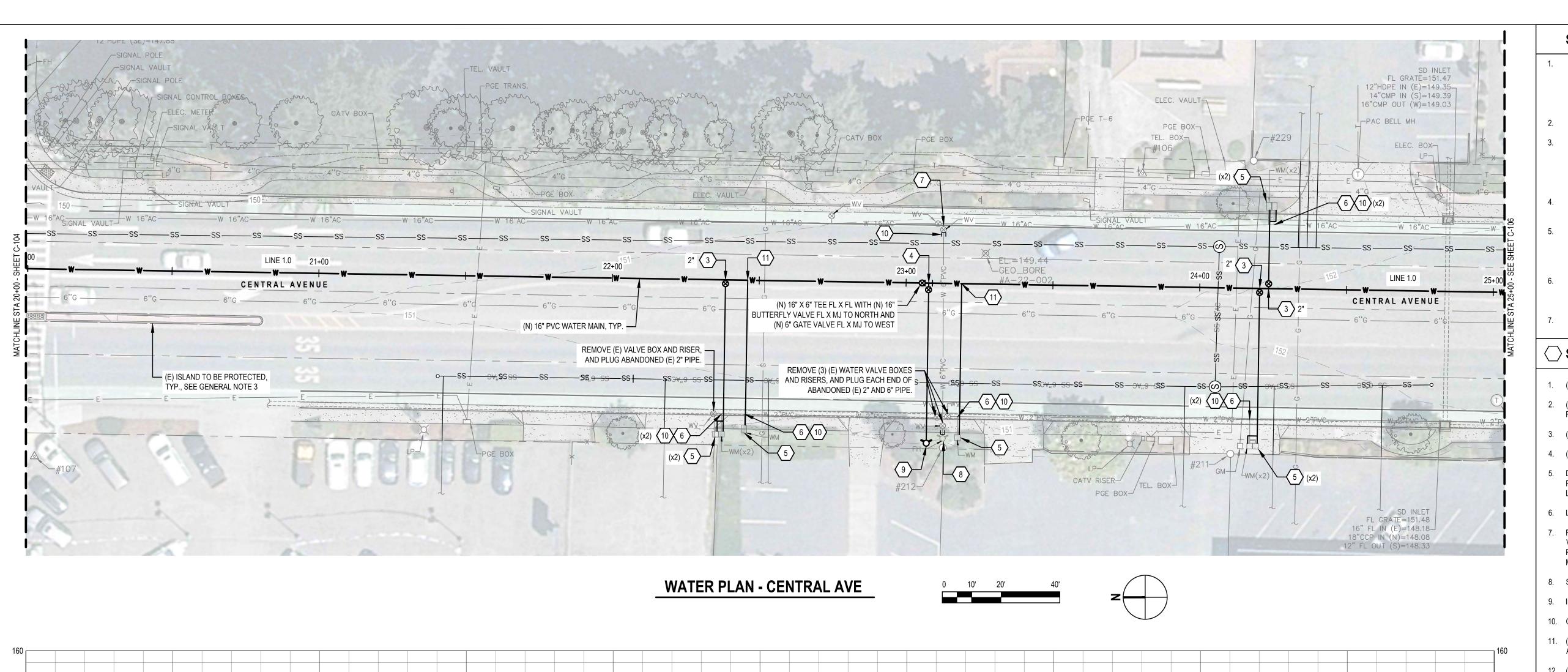
Client MCKINLEYVILLE COMMUNITY **SERVICES DISTRICT** ject CENTRAL AVENUE WATER & SEWER **REHABILITATION**

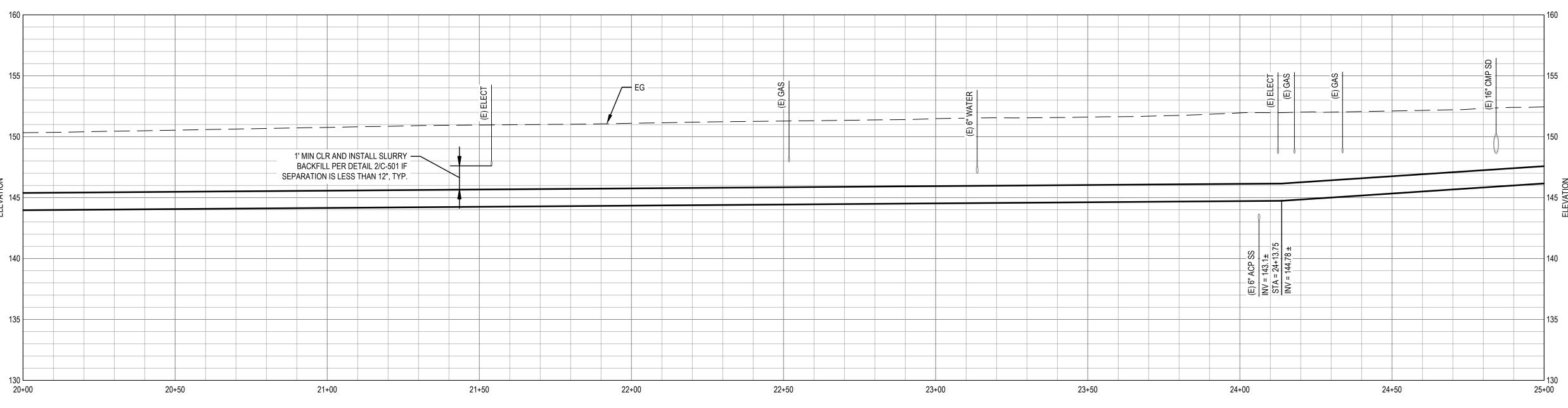
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Scale

Title WATER MAIN PLAN AND PROFILE - Size ANSI D **LINE 1.0, 2 OF 5**



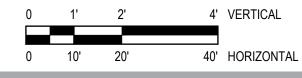


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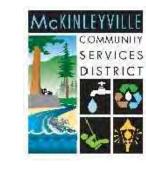
SHEET KEYNOTES

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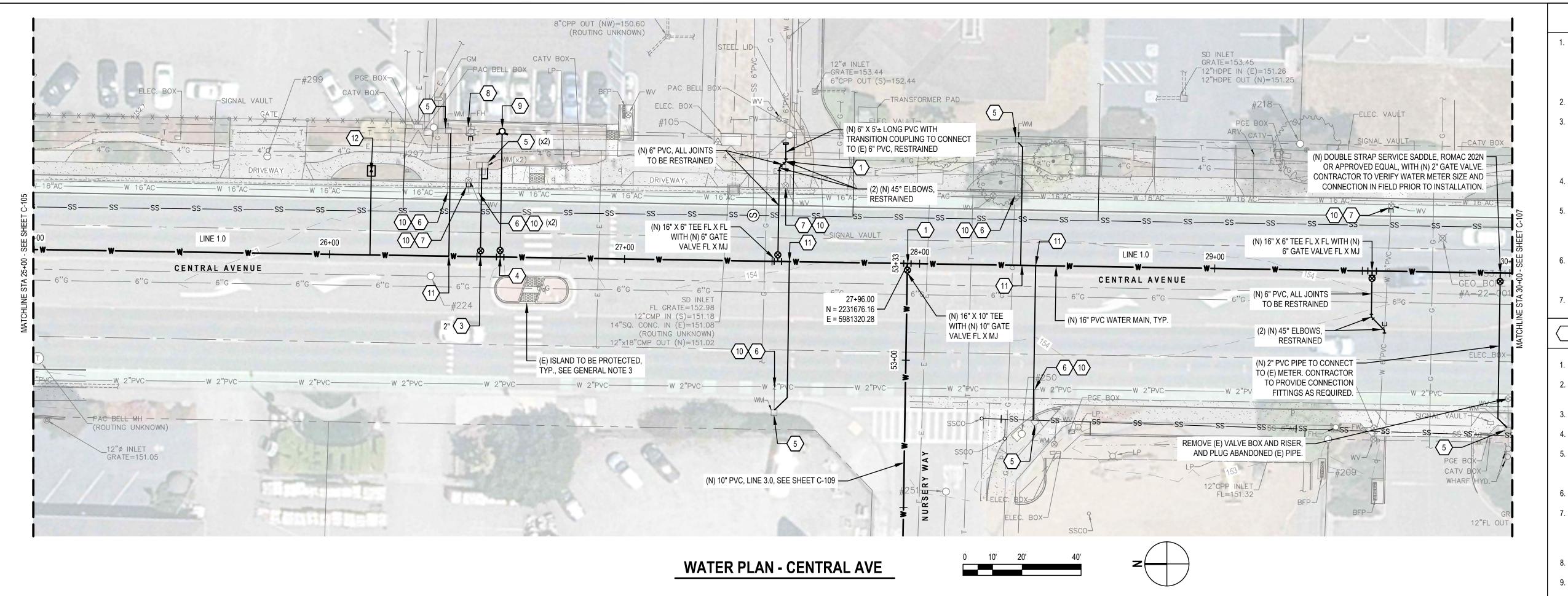
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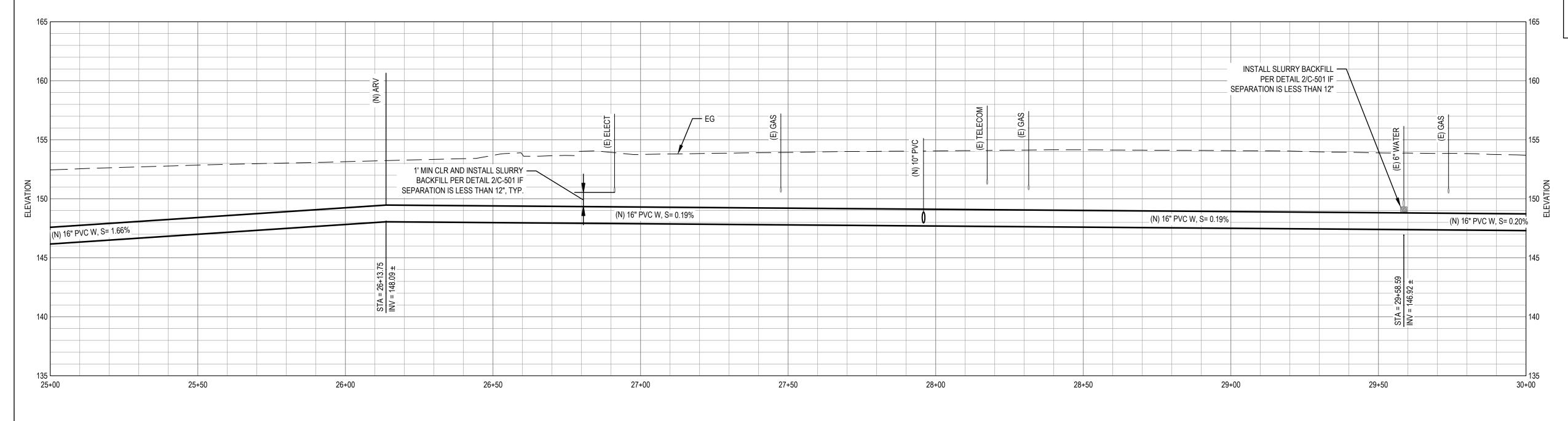
Client MCKINLEYVILLE COMMUNITY **SERVICES DISTRICT** ject CENTRAL AVENUE WATER & SEWER **REHABILITATION**

2022-11-15

AS SHOWN

Title WATER MAIN PLAN AND PROFILE - Size ANSI D LINE 1.0, 3 OF 5





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WATER PROFILE - CENTRAL AVE



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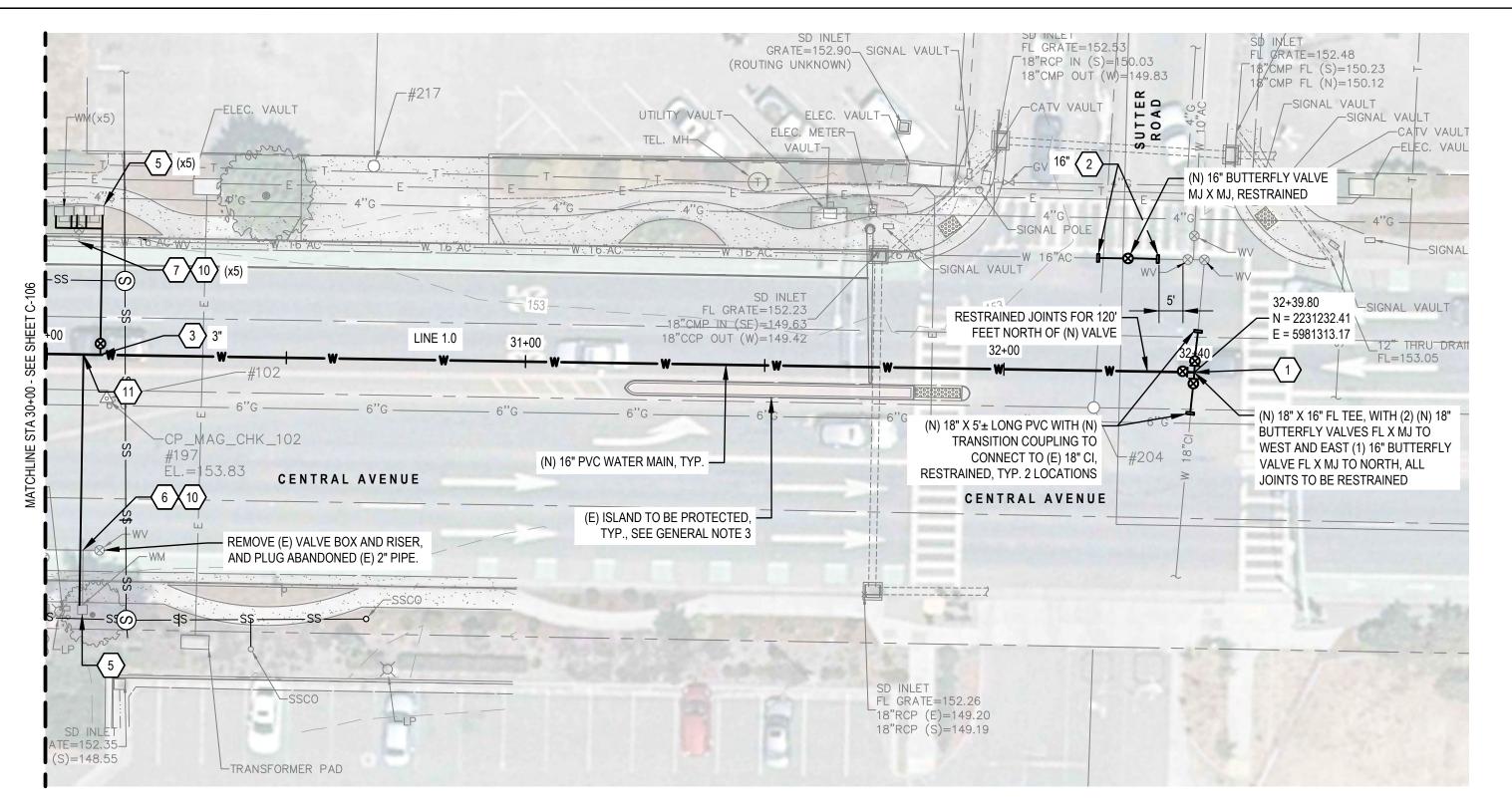
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2022-11-15

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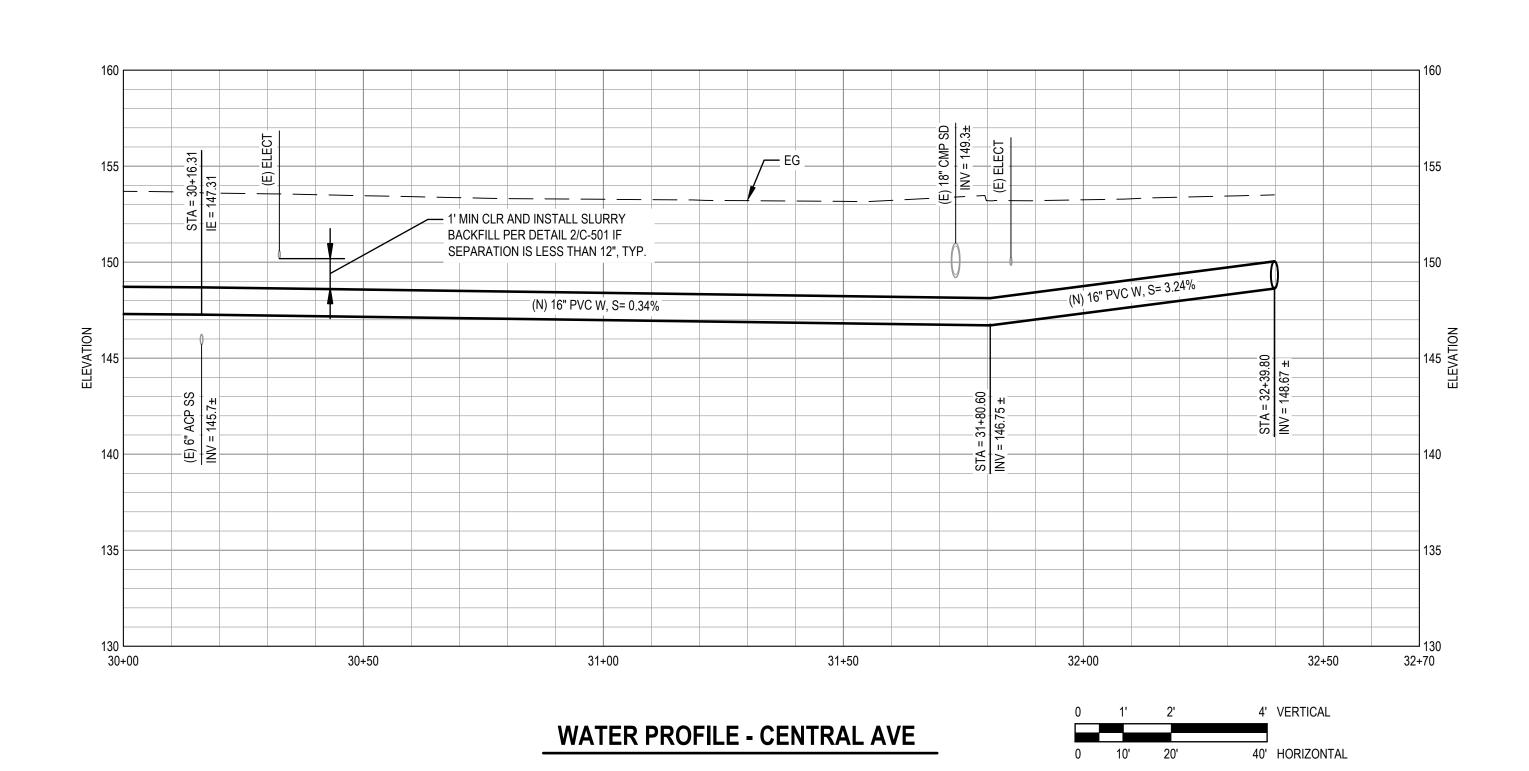
Title WATER MAIN PLAN AND PROFILE - Size ANSI D **LINE 1.0, 4 OF 5**



WATER PLAN - CENTRAL AVE







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Client MCKINLEYVILLE COMMUNITY **SERVICES DISTRICT** ject CENTRAL AVENUE WATER & SEWER **REHABILITATION**

Title WATER MAIN PLAN AND PROFILE - Size ANSI D **LINE 1.0, 5 OF 5**

SHEET GENERAL NOTES

INTERTIES.

WORKING SYSTEM.

⟨ ⟩ SHEET KEYNOTES

1. (N) THRUST BLOCK PER 3/C-501.

4. (N) 6" FH SERVICE PER STD DETAIL W-13/C-503.

MATERIALS AS REQUIRED FOR A COMPLETE SEAL.

AS REQUIRED TO CONNECT TO (E) METER.

RESTRAINED.

8. SALVAGE (E) FH.

12. (N) ARV PER DETAIL 3/C-502.

LOCATION OF EXISTING UTILITIES & STRUCTURES ARE FROM INFORMATION AVAILABLE

1-800-227-2600 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR

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7. REMOVE (E) VALVE, VALVE BOX, AND RISER AT MAIN, VERIFY EXISTING FITTING AT MAIN,

VERIFY BLIND FLANGE/CAP/PLUG REQUIRED, PREP INSTALLATION SURFACE AS REQUIRED, AND INSTALL (N) BLIND FLANGE/CAP/PLUG WITH GASKETS AND OTHER

10. CUT AND PLUG EACH END OF ABANDONED SECTION OF (E) PIPE PER DETAIL 4/C-501.

11. (N) 1" DOMESTIC WATER SERVICE LINE PER STD DETAIL WS-104/C-503 WITH ANGLE STOP

9. INSTALL SALVAGED (E) FH ON (N) FH LATERAL PER STD DETAIL W-13/C-503.

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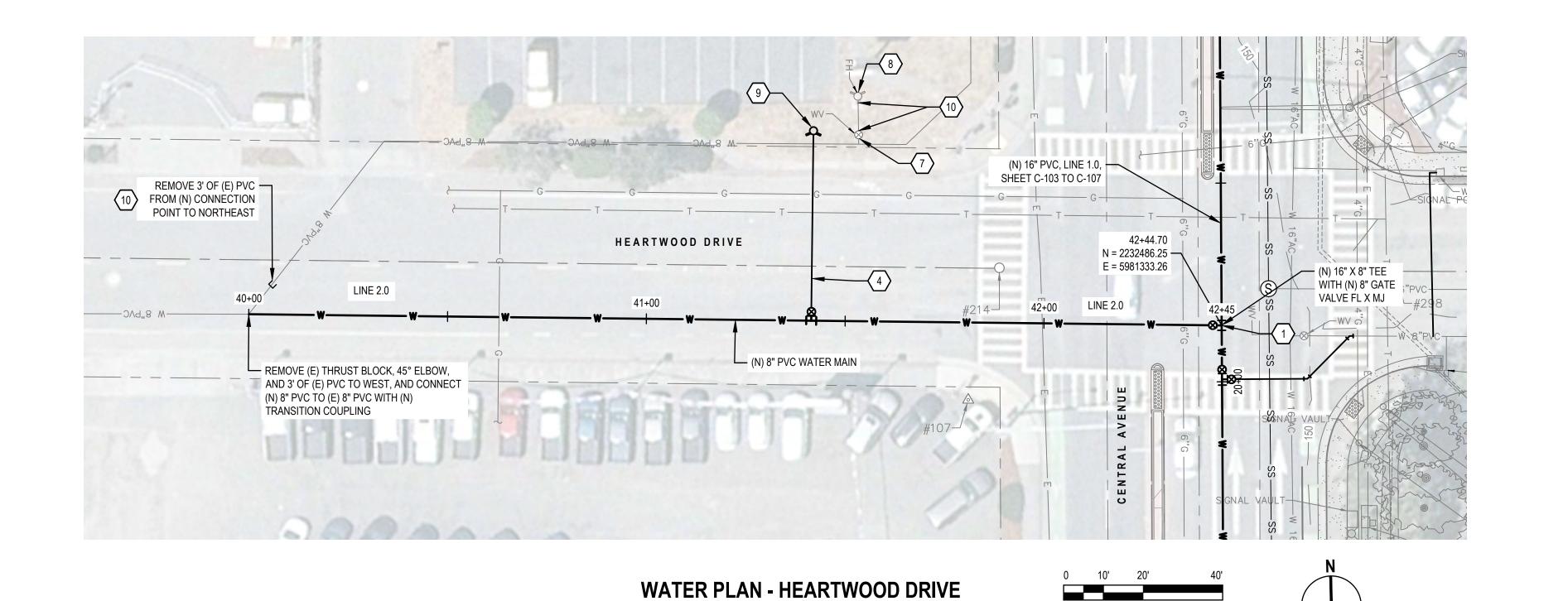
SPECIFIED LENGTH IN EACH DIRECTION AWAY FROM THE JOINT.

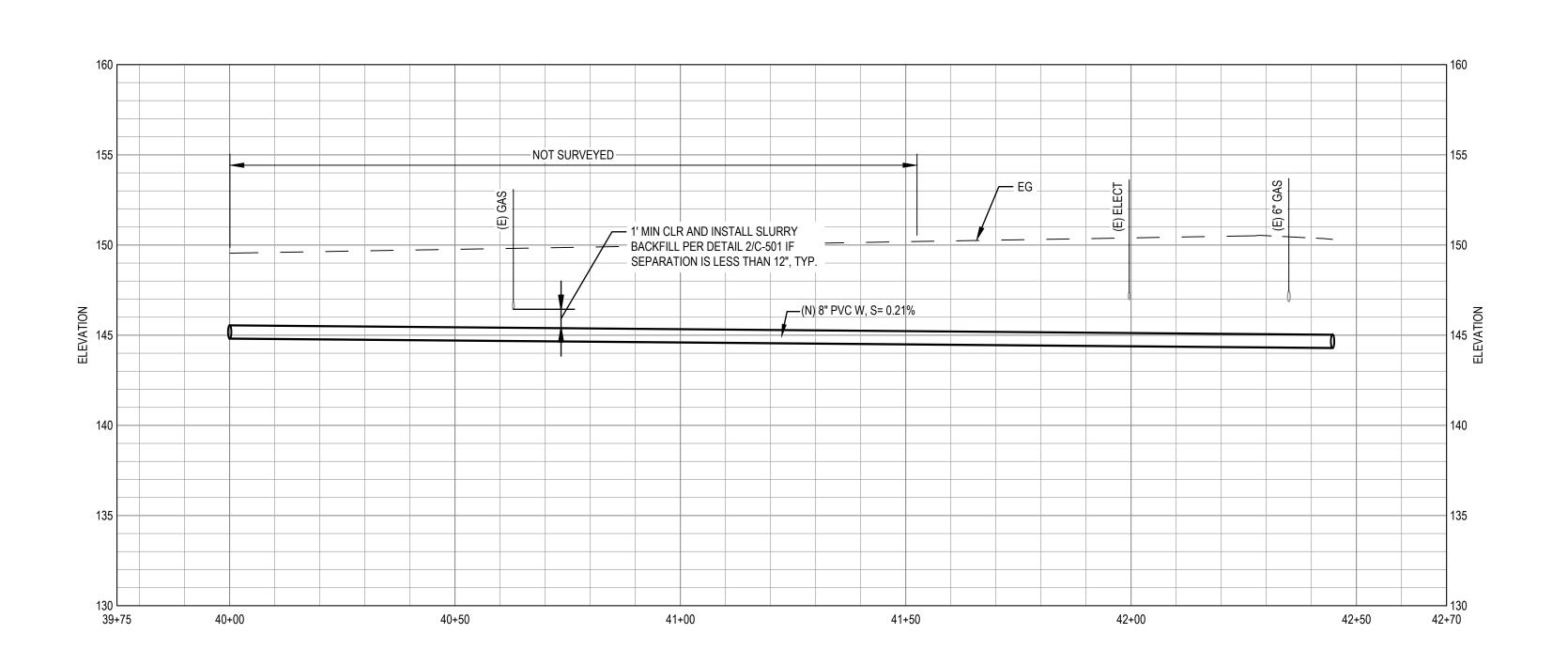
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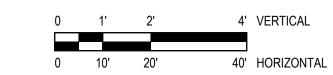
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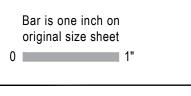




WATER PROFILE - HEARTWOOD DRIVE



0 ISSUE FOR BID		NS	NS	2022-11-15
No. Issue		Checked	Approved	Date
Author M. GONZALES	Drafting Check L. HALONEN	Project	Manager N .	STEVENS
Designer M. GONZALES	Design Check L. HALONEN	Project	Director G.	WATANABE







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Client MCKINLEYVILLE COMMUNITY **SERVICES DISTRICT REHABILITATION**

Title WATER MAIN PLAN AND PROFILE - Size ANSI D **LINE 2.0**

SHEET GENERAL NOTES

EXACT LOCATION.

INTERTIES.

WORKING SYSTEM.

♦ SHEET KEYNOTES

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4. (N) 6" FH SERVICE PER STD DETAIL W-13/C-503.

MATERIALS AS REQUIRED FOR A COMPLETE SEAL.

AS REQUIRED TO CONNECT TO (E) METER.

RESTRAINED.

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12. (N) ARV PER DETAIL 3/C-502.

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ALL PARKING LOTS, SIDEWALKS, CURBS, ISLANDS, GUTTERS, DRIVEWAYS, FENCES, LANDSCAPING, PAVEMENT STRIPING, AND ALL OTHER ITEMS DISTURBED AS A RESULT OF REQUIRED CONSTRUCTION ACTIVITIES SHALL BE REPLACED IN KIND TO AN AS GOOD OR

BETTER CONDITION, AND SHALL BE REPAIRED TO MATCH EXISTING ADJACENT

5. NOT ALL TRANSITION COUPLINGS AND FITTINGS SHOWN. CONTRACTOR TO PROVIDE

TRANSITION COUPLINGS, INCLUDING BUT NOT LIMITED TO FLANGE COUPLING ADAPTERS AND MECHANICAL JOINT RESTRAINTS, AS REQUIRED TO PROVIDE A COMPLETE AND

LISTED RESTRAINED LENGTHS ARE MINIMUMS. RESTRAINTS SHALL BE INSTALLED TO

7. NEW WATER MAINS AND WATER SERVICE LINES SHALL BE SEPARATED 10' HORIZONTALLY AND 1' VERTICALLY ABOVE (E) SEWER MAINS PER CCR TITLE 22 SECTION 64572.

NEXT JOINT BEYOND ALL LISTED DISTANCES. RESTRAINTS ARE TO BE INSTALLED THE

4. CONTRACTOR TO POTHOLE AND VERIFY (E) PIPE SIZES ANDF CONNECTIONS AT

SPECIFIED LENGTH IN EACH DIRECTION AWAY FROM THE JOINT.

2. (N) 5' ± LONG PVC WITH (N) TRANSITION COUPLING TO CONNECT TO (E) ACP,

5. DISCONNECT (E) WATER SERVICE LINES FROM METERS, REMOVE FROM METER BOXES, REMOVE METER MANIFOLD (IF MULTI-METER SERVICE), PLUG AND ABANDON (E) SERVICE

6. LOCATE AND DISCONNECT (E) SERVICE LINE FROM (E) MAIN AND CLOSE (E) CORP STOP.

7. REMOVE (E) VALVE, VALVE BOX, AND RISER AT MAIN, VERIFY EXISTING FITTING AT MAIN, VERIFY BLIND FLANGE/CAP/PLUG REQUIRED, PREP INSTALLATION SURFACE AS REQUIRED, AND INSTALL (N) BLIND FLANGE/CAP/PLUG WITH GASKETS AND OTHER

9. INSTALL SALVAGED (E) FH ON (N) FH LATERAL PER STD DETAIL W-13/C-503.

10. CUT AND PLUG EACH END OF ABANDONED SECTION OF (E) PIPE PER DETAIL 4/C-501.

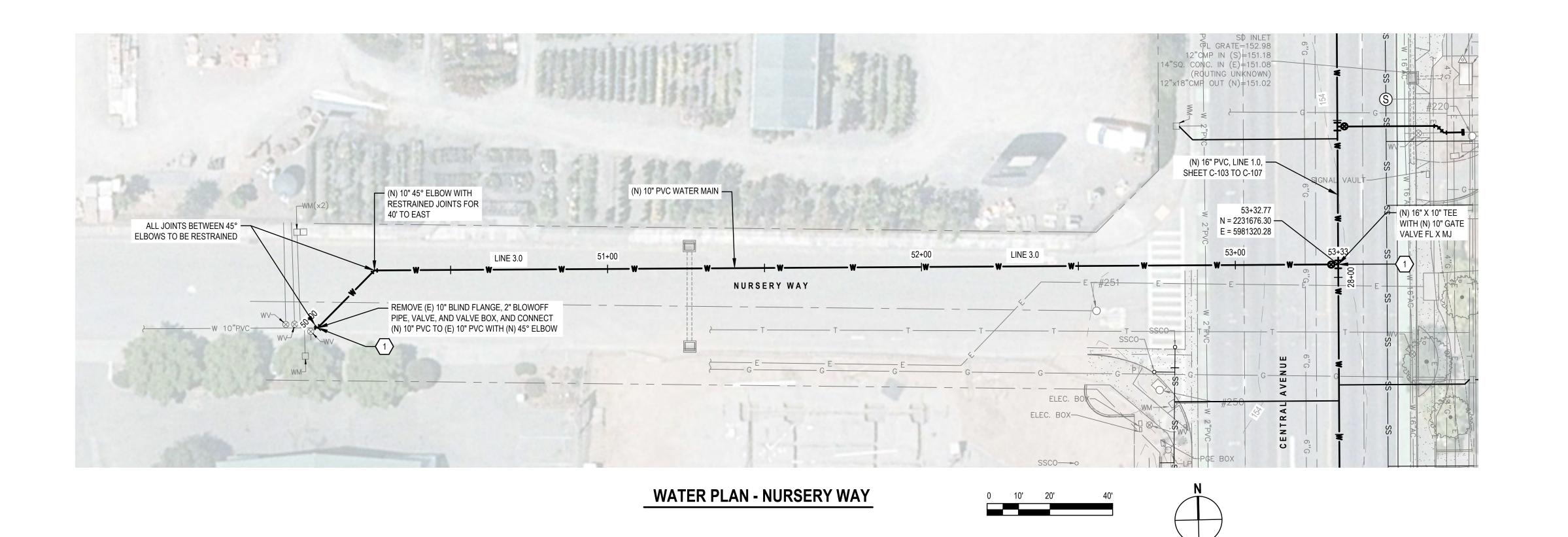
11. (N) 1" DOMESTIC WATER SERVICE LINE PER STD DETAIL WS-104/C-503 WITH ANGLE STOP

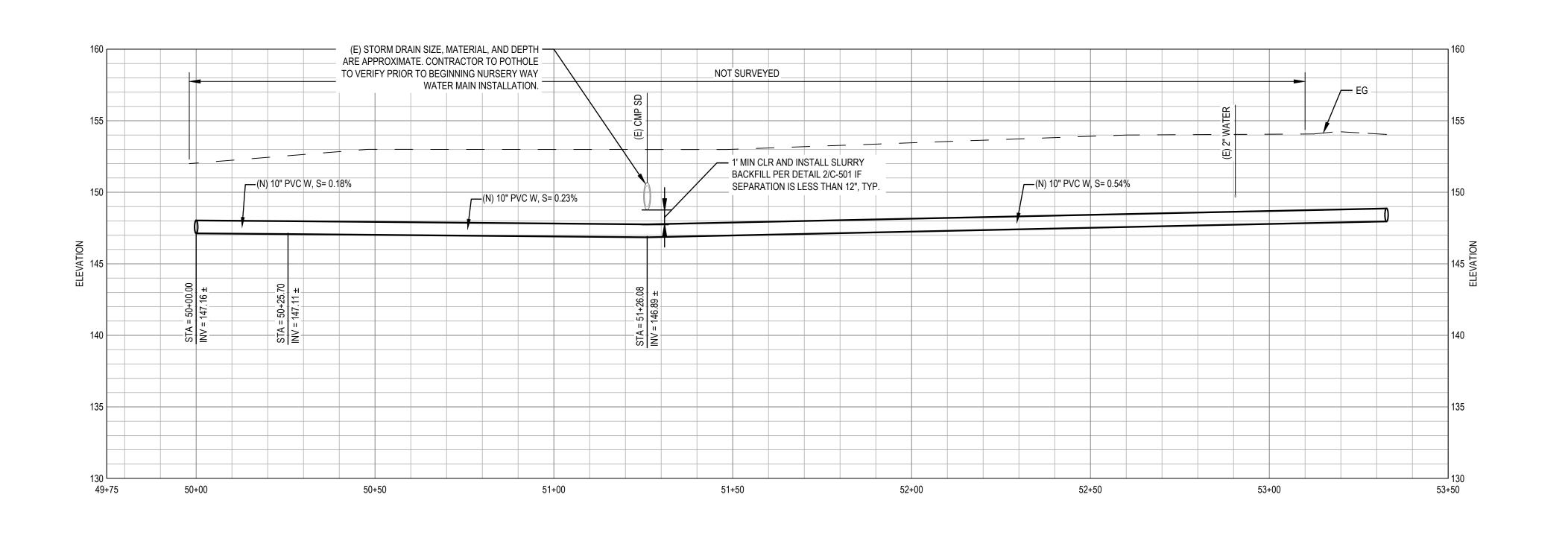
3. (N) MULTI-METER WATER SERVICE LINE PER STD DETAIL WS-107/C-503.

2. CONTRACTOR SHALL RESTORE ANY PAVEMENT DAMAGE PER DETAIL 1/C-501.

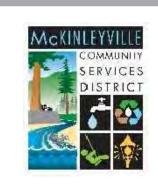
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2022-11-15





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WATER PROFILE - NURSERY WAY

Bar is one inch on

original size sheet

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4' VERTICAL

40' HORIZONTAL

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Title WATER MAIN PLAN AND PROFILE - Size ANSI D **LINE 3.0**

SHEET GENERAL NOTES

EXACT LOCATION.

INTERTIES.

WORKING SYSTEM.

♦ SHEET KEYNOTES

1. (N) THRUST BLOCK PER 3/C-501.

4. (N) 6" FH SERVICE PER STD DETAIL W-13/C-503.

MATERIALS AS REQUIRED FOR A COMPLETE SEAL.

AS REQUIRED TO CONNECT TO (E) METER.

RESTRAINED.

8. SALVAGE (E) FH.

12. (N) ARV PER DETAIL 3/C-502.

LOCATION OF EXISTING UTILITIES & STRUCTURES ARE FROM INFORMATION AVAILABLE AT TIME OF DESIGN. EXACT LOCATION AND COMPLETENESS ARE NOT GUARANTEED.

1-800-227-2600 A MINIMUM OF 72 HOURS PRIOR TO ANY EXCAVATION AND POTHOLE FOR

CONTRACTOR SHALL NOTIFY THE OWNER AND UNDERGROUND SERVICES ALERT

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NEW WATER MAINS AND WATER SERVICE LINES SHALL BE SEPARATED 10' HORIZONTALLY

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TRANSITION COUPLINGS, INCLUDING BUT NOT LIMITED TO FLANGE COUPLING ADAPTERS

BETTER CONDITION, AND SHALL BE REPAIRED TO MATCH EXISTING ADJACENT

4. CONTRACTOR TO POTHOLE AND VERIFY (E) PIPE SIZES ANDF CONNECTIONS AT

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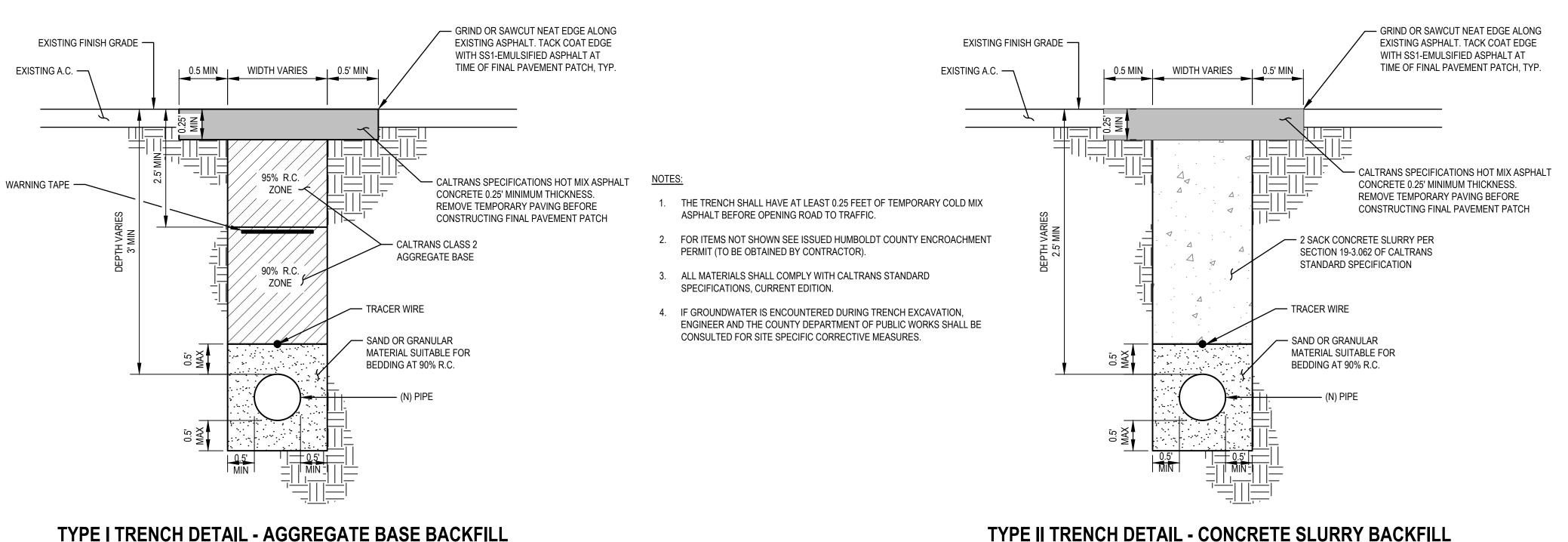
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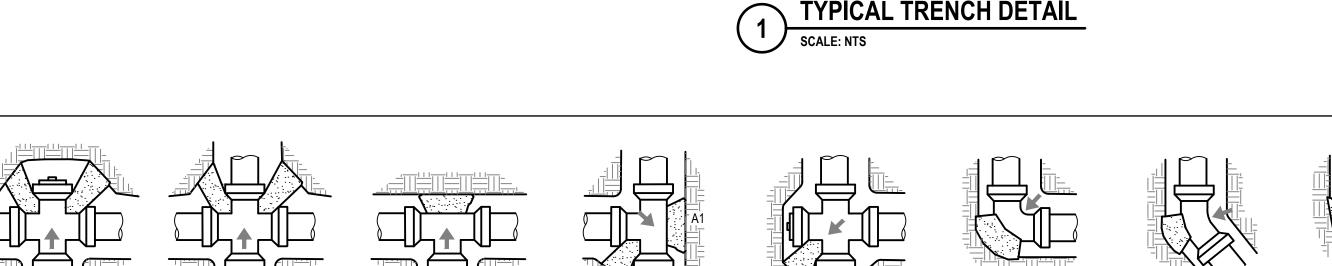
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TYPE II TRENCH DETAIL - CONCRETE SLURRY BACKFILL



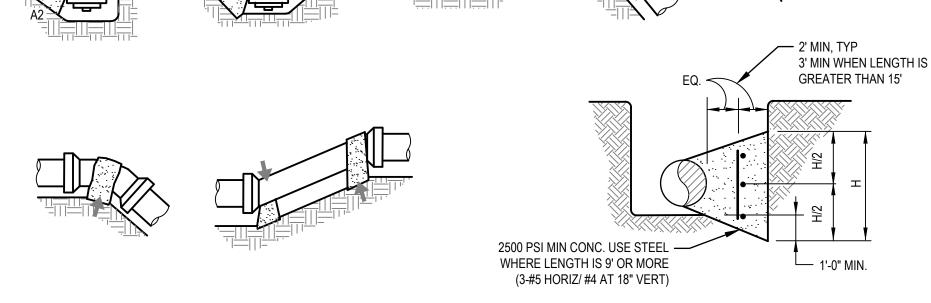


CONCRETE THRUST BLOCKS ARE TO BE POURED AGAINST UNDISTURBED EARTH OR STRUCTURAL BACKFILL.

- 2. KEEP CONCRETE CLEAR OF JOINTS AND ACCESSORIES.
- VOLUMES AND SPECIAL BLOCKING DETAILS SHOWN ON THE PLANS TAKE PRECEDENCE OVER VOLUMES AND BLOCKING DETAILS SHOWN ON THIS STANDARD DETAIL.
- WHERE RESTRAINED JOINTS ARE NOT USED, ALL BURIED PIPE EXCEPT FLANGED, SCREWED, SOLVENT WELDED PVC OR WELDED STEEL PIPE SPECIFIED TO BE PRESSURE TESTED SHALL BE PROVIDED WITH CONCRETE THRUST BLOCKS AT ALL DIRECTIONAL CHANGES UNLESS
- THRUST BLOCKS SHALL NOT BE LOCATED OR SIZED TO ENCASE ADJACENT PIPES OR
- THE SIZE AND WEIGHT OF ALL UPLIFT THRUST BLOCKS SHALL BE AS DETERMINED BY
- 7. THE BEARING AREAS ARE BASED ON TEST PRESSURE OF 150 PSI AND ALLOWABLE SOIL BEARING STRESS OF 1000 POUNDS PER SQUARE FOOT. TO COMPUTE BEARING AREAS FOR DIFFERENT TEST PRESSURES AND SOIL BEARING STRESSES, USE THE FOLLOWING

BEARING AREA = (TEST PRESSURE / 150) x (1000 / SOIL BEARING STRESS) x (TABLE VALUE)

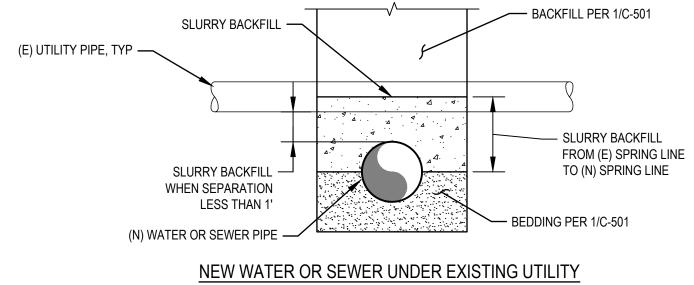
- 8. CONTRACTOR TO PROVIDE ALL COMPONENTS.
- 9. ALL PIPE AND FITTINGS SHALL BE WRAPPED IN POLYETHYLENE TO PREVENT CORROSION AND CONCRETE ADHESION.
- 10. SEE WS-102 / C-504 FOR THRUST BLOCK REQUIREMENTS FOR VERTICAL BENDS.

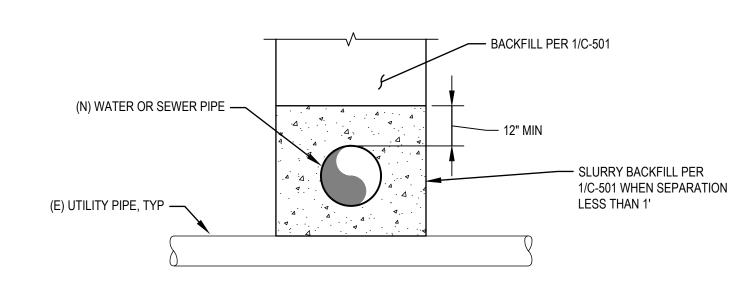


BEARING AREA OF THRUST BLOCK IN SQ. FT.

PIPE SIZE	TEE, WYE, PLUG OR	90° BEND		90° BEND PLUGGED		EE GGED	45° BEND	22 1/2° BEND	11 1/4° BEND	PIPE SIZE	TEE, WYE, PLUG OR	90° BEND PLUGGED		EE GGED	45° BEND	22 1/2° BEND	11 1/4° BEND
JIZL	CAP	CROSS	A1	A2	BEND	BEINB	BEINB	SIZL	CAP	CROSS	A1	A2	BEINB	BEINB	BEIND		
4	1.5	2	2	1.5	1.5	1	1	18	19	27	27	19	15	8	6		
6	3	4.5	4.5	3	2.5	1.5	1	20	24	34	34	24	18	10	8		
8	5	7	7	5	4	2	1	22	29	41	41	29	22	12	10		
10	8	12	12	8	7	3	2	24	34	48	48	34	26.5	14	12		
12	12	17	17	12	10	5	3	32	39	55	55	39	31.5	16	14		
16	15	21.5	21.5	15	12	6	4										





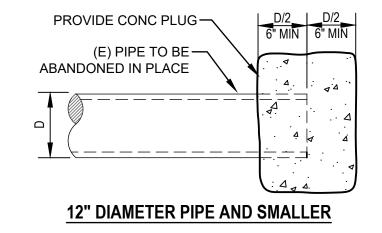


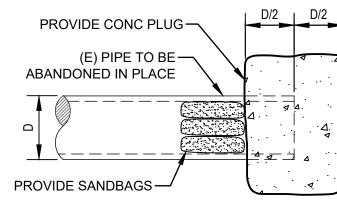
NEW WATER OR SEWER OVER EXISTING UTILITY

1. CONTRACTOR TO COORDINATE WITH UTILITY OWNER PRIOR TO PERFORMING SLURRY BACKFILL.

- 2. SLURRY BACKFILL SHALL EXTEND 5' MIN BEYOND EACH SIDE OF (E) UTILITY PIPE CROSSING IN (N) UTILITY TRENCH.
- 3. UTILITY CROSSINGS SHALL CONFORM TO WATER MAIN SEPARATION CRITERIA SEPARATION CRITERIA, CALIFORNIA CODE OF REGULATIONS, TITLE 22 SECTION 64572. THIS INCLUDES THAT (N) WATER MAINS SHALL BE INSTALLED A MIN. OF 1' ABOVE (E) SEWER MAINS, AND THAT PARALLEL WATER AND SEWER MAINS SHALL BE SEPARATED BY A MIN. OF 10' HORIZONTALLY.







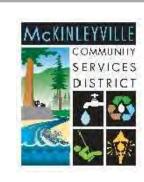
14" DIAMETER PIPE AND LARGER

1. PIPE PLUGS SHALL BE INSTALLED TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

2. SHALL BE INSPECTED BY THE OWNER'S REPRESENTATIVE BEFORE



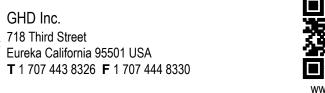
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No. Issue		Checked	Approved	Date
Author M. GONZALES	Drafting Check L. HALONEN	Project	Manager N	N. STEVENS
Designer M. GONZALES	Design Check L. HALONEN	Project	Director C	G. WATANABE



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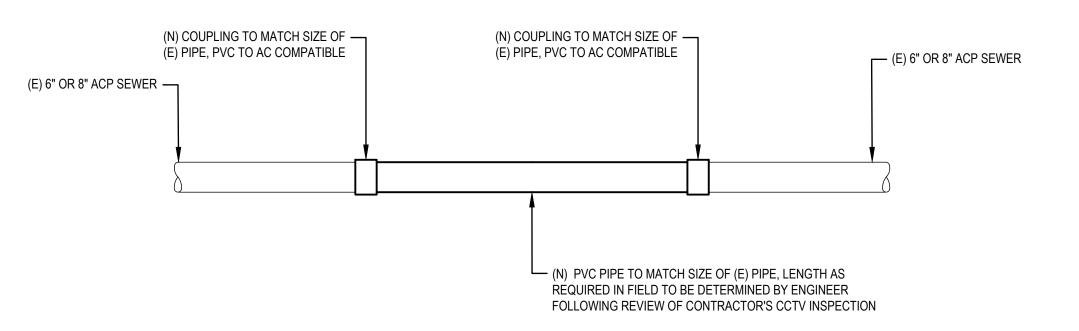




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om	REHABILITATION

Title CIVIL DETAILS 1 OF 4			



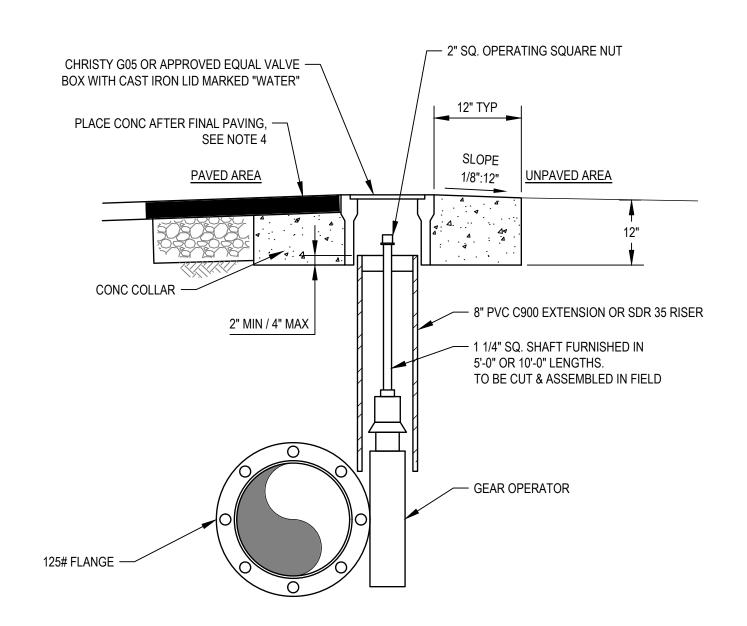
1. BACKFILL OPEN CUT SEWER SECTION REPAIR PER TRENCH DETAIL 1/C-501.

TYPICAL OPEN CUT SEWER SECTION REPAIR

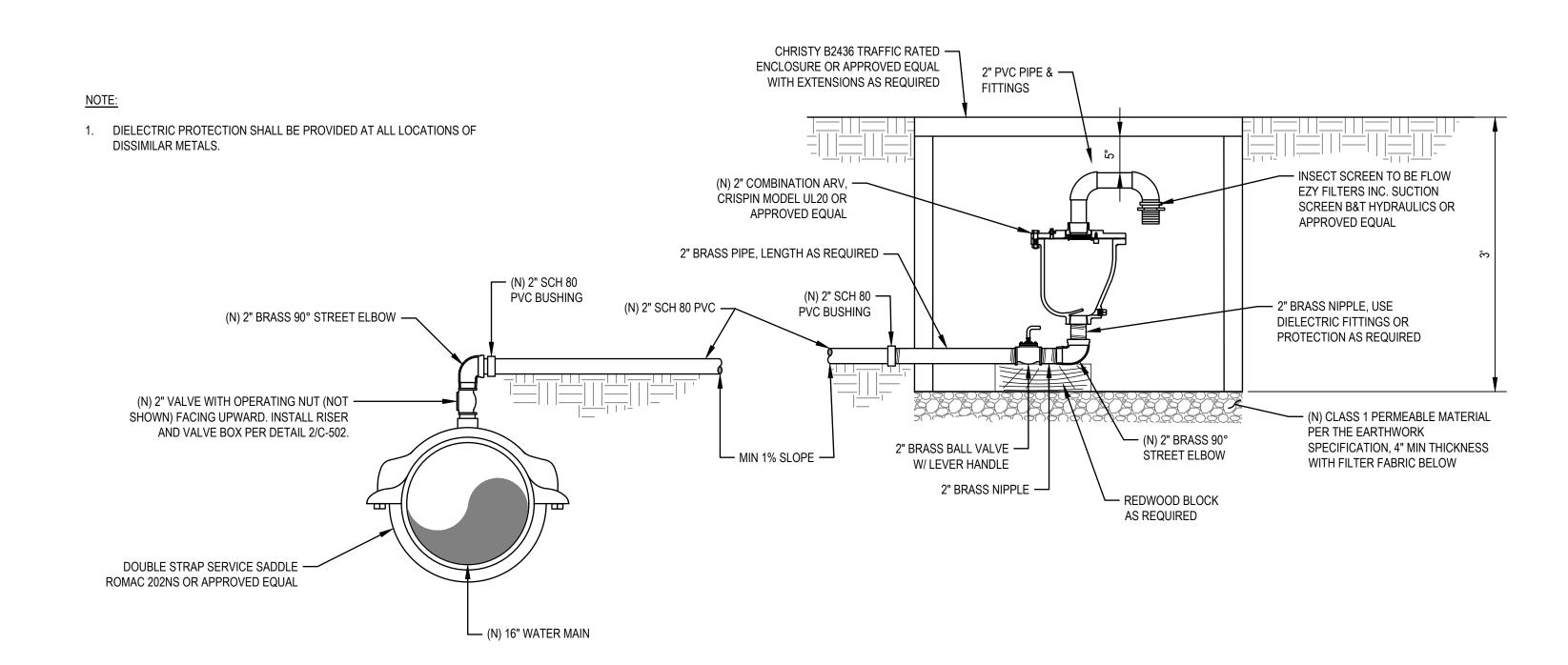
NOTES:

1. VALVE BOX & LID SHALL BE RATED FOR AASHTO H-20 LOADINGS AS MANUFACTURED BY CHRISTY (NO. G05) OR APPROVED EQUAL.

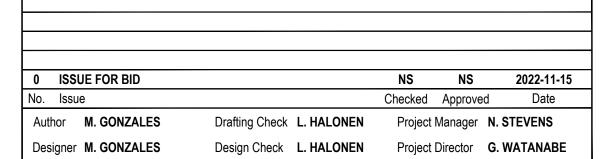
- 2. ALL LIDS & GRADE RINGS SHALL HAVE MACHINED SEATING SURFACES.
- EXTENSIONS SHALL BE AS MANUFACTURED FOR THE VALVE BOX SUPPLIED OR HDPE OR PVC PIPE OF CORRECT SIZE CAN BE USED.
- 4. VALVE BOX IS PLACED AFTER ROADWAY IS PAVED, CONSTRUCT CONC BASE TO TOP OF PAVEMENT.



STANDARD BUTTERFLY VALVE INSTALLATION



COMBINATION AIR & VACUUM RELEASE VALVE



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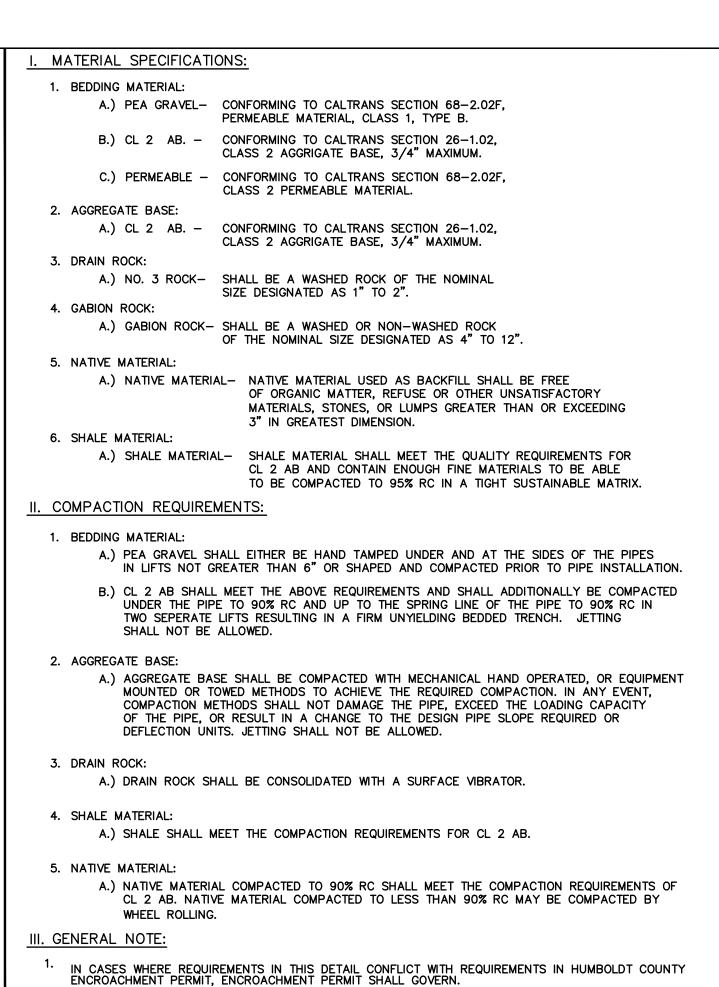
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Title CIVIL DETAILS 2 OF 4

Scale

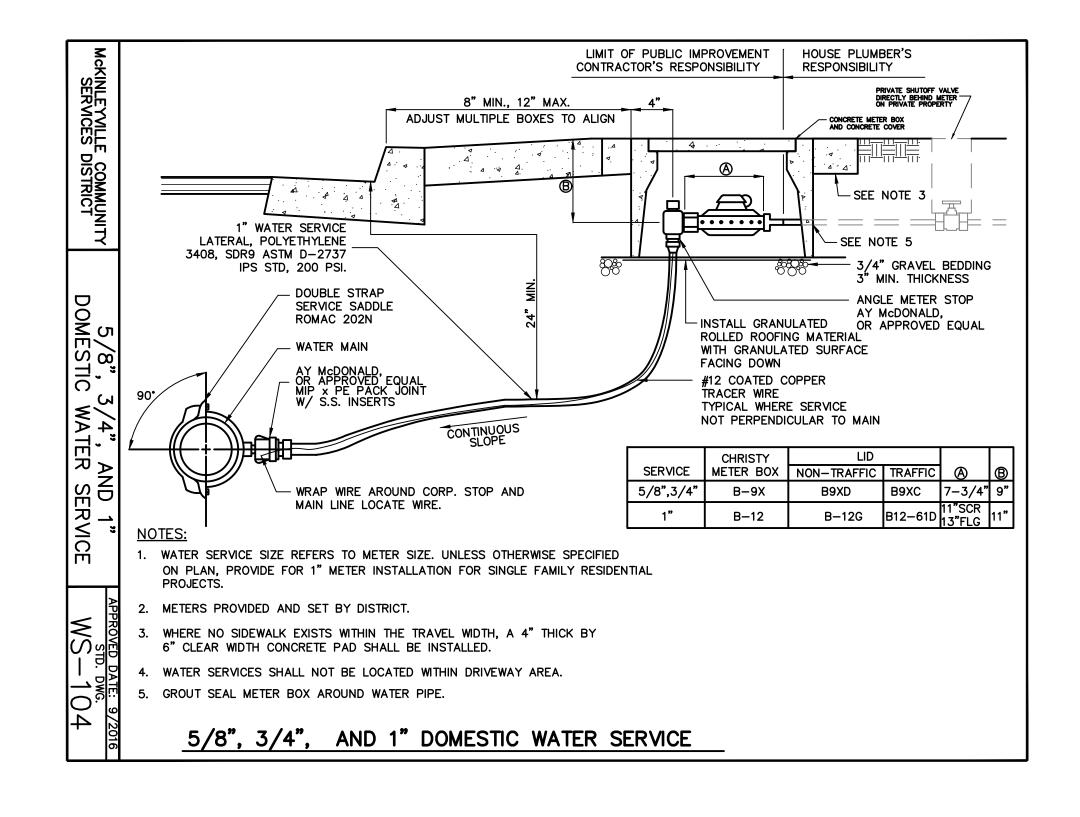
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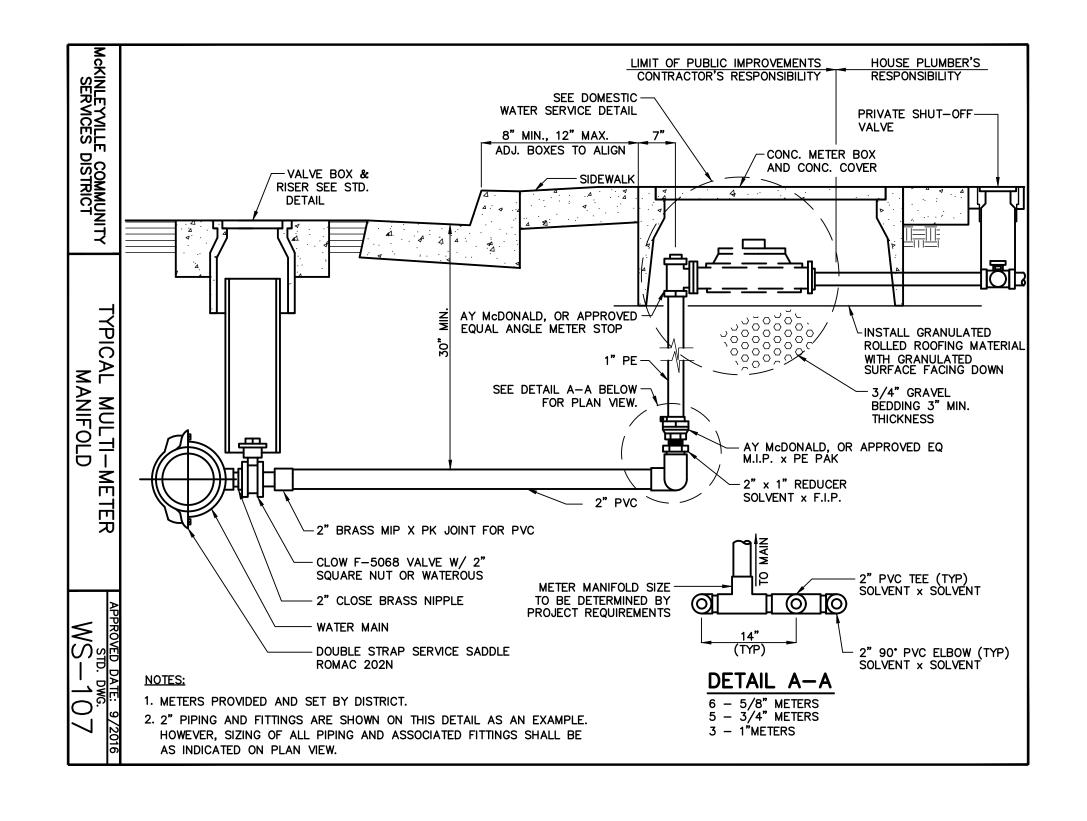
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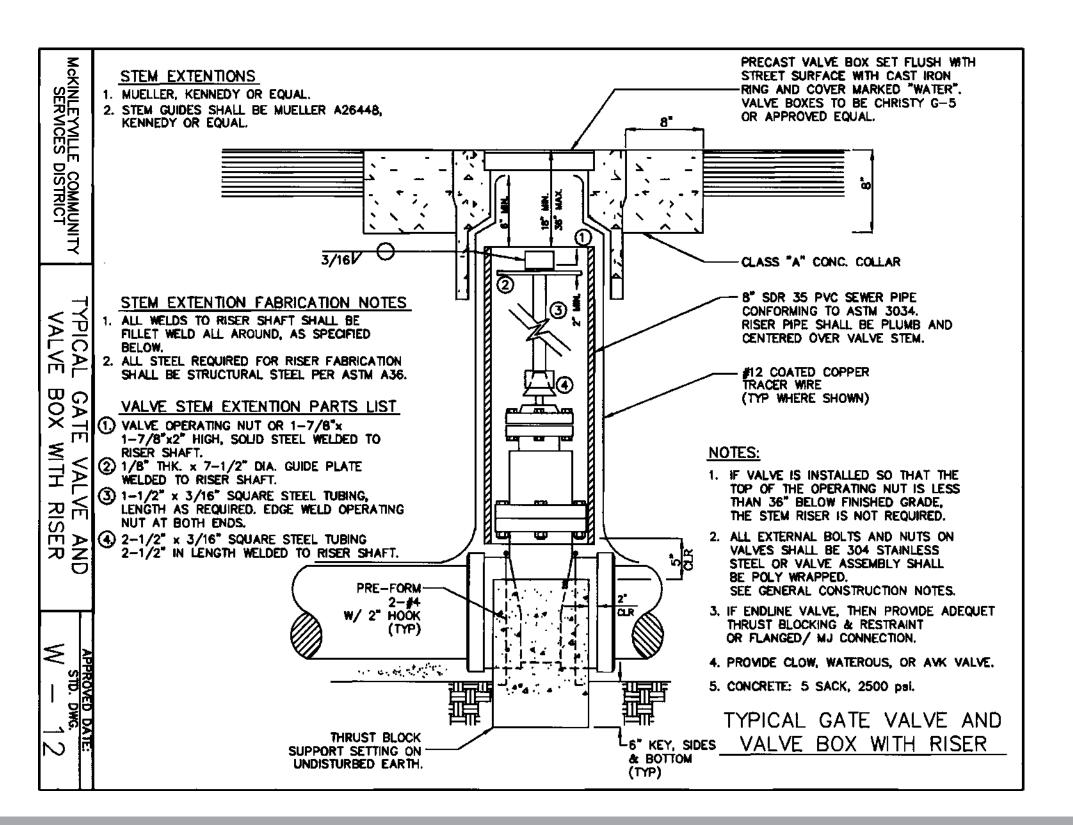


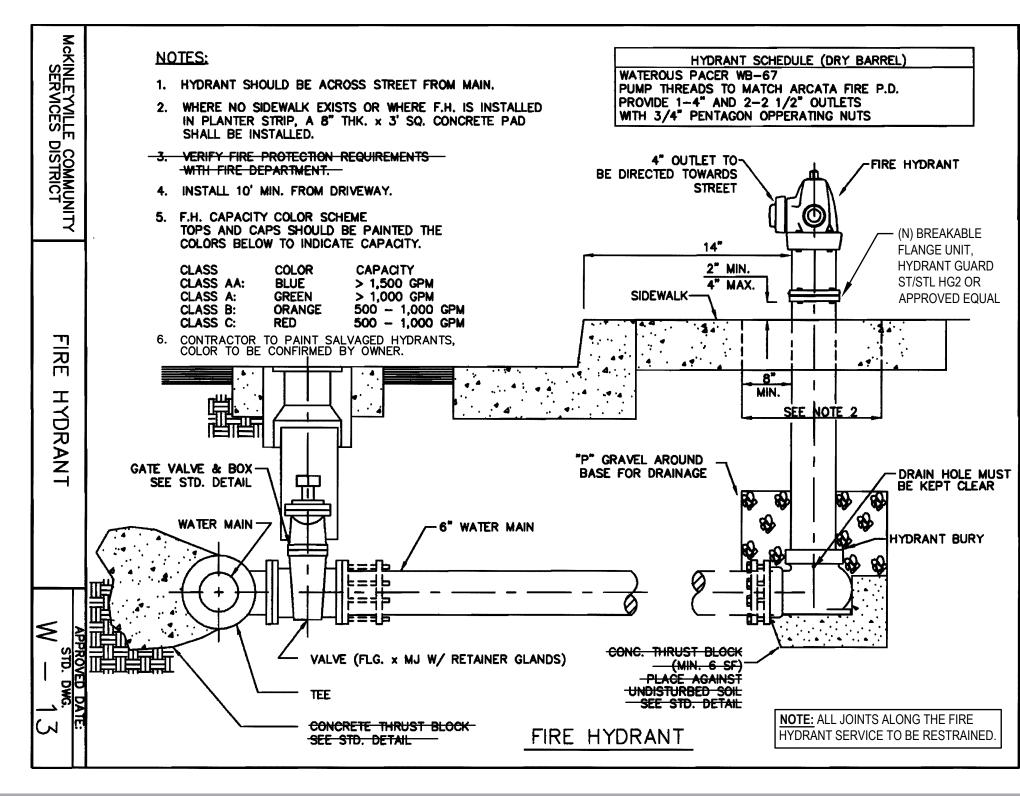
McKINLEYVILLE COMMUNITY WATER AND SEWER STANDARD SERVICES DISTRICT

TRENCH DETAIL NOTES

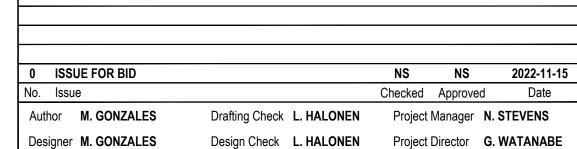


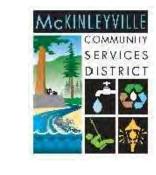


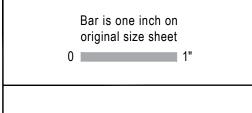




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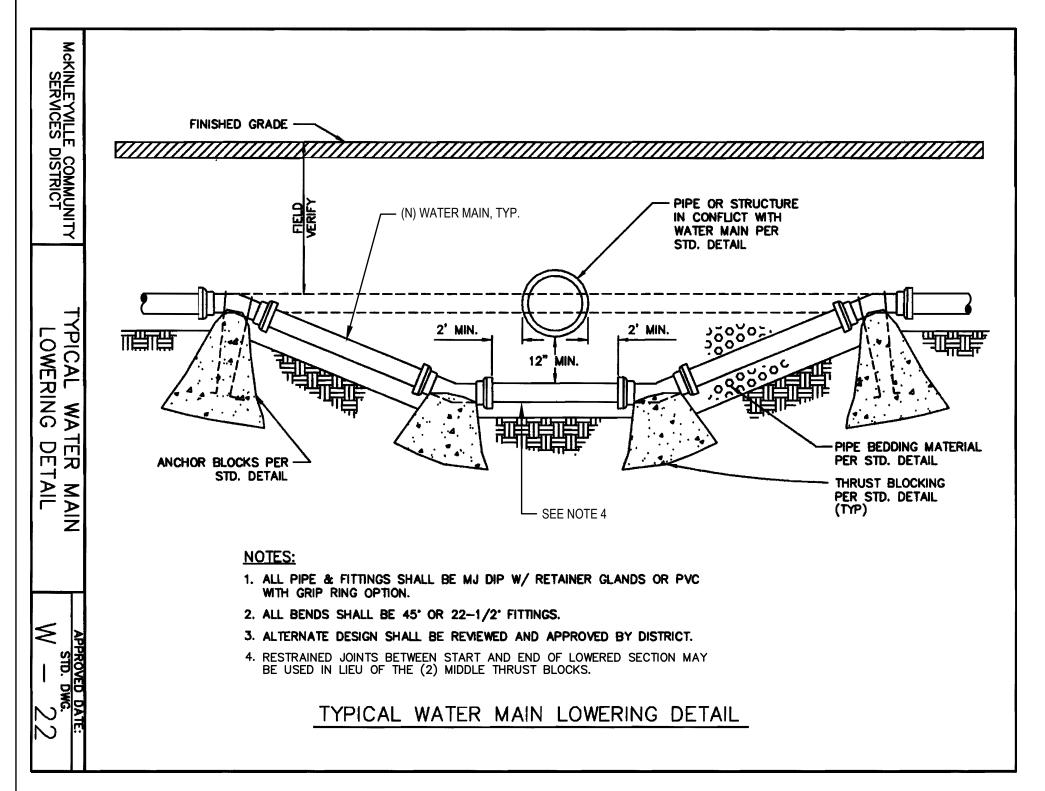


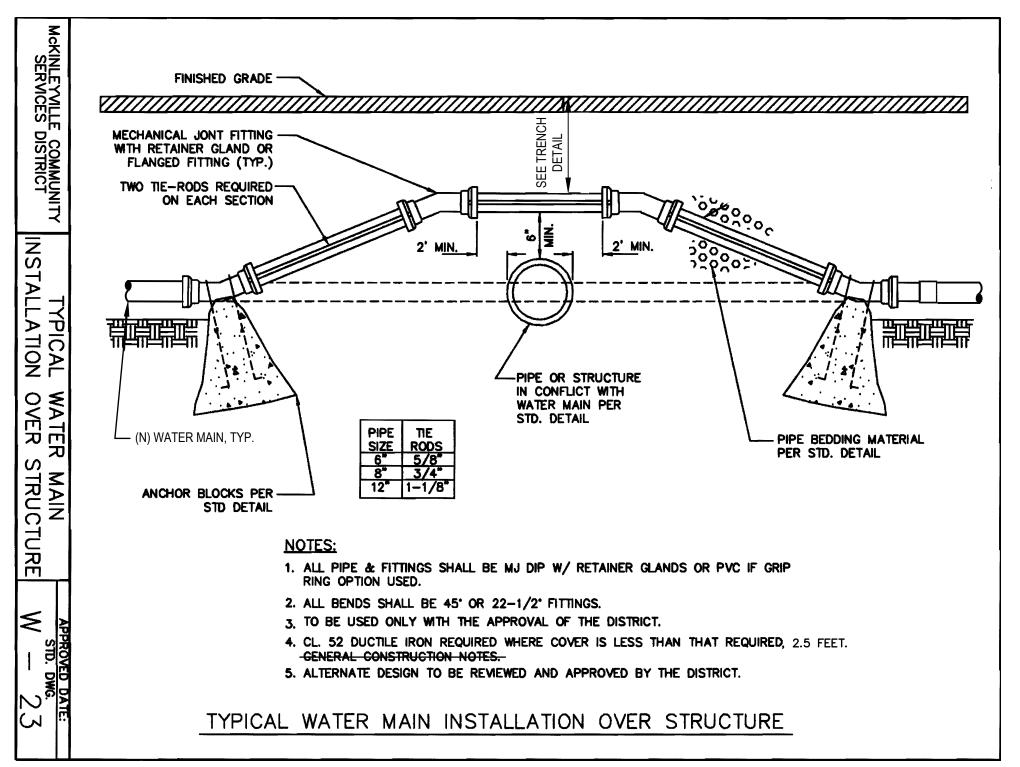


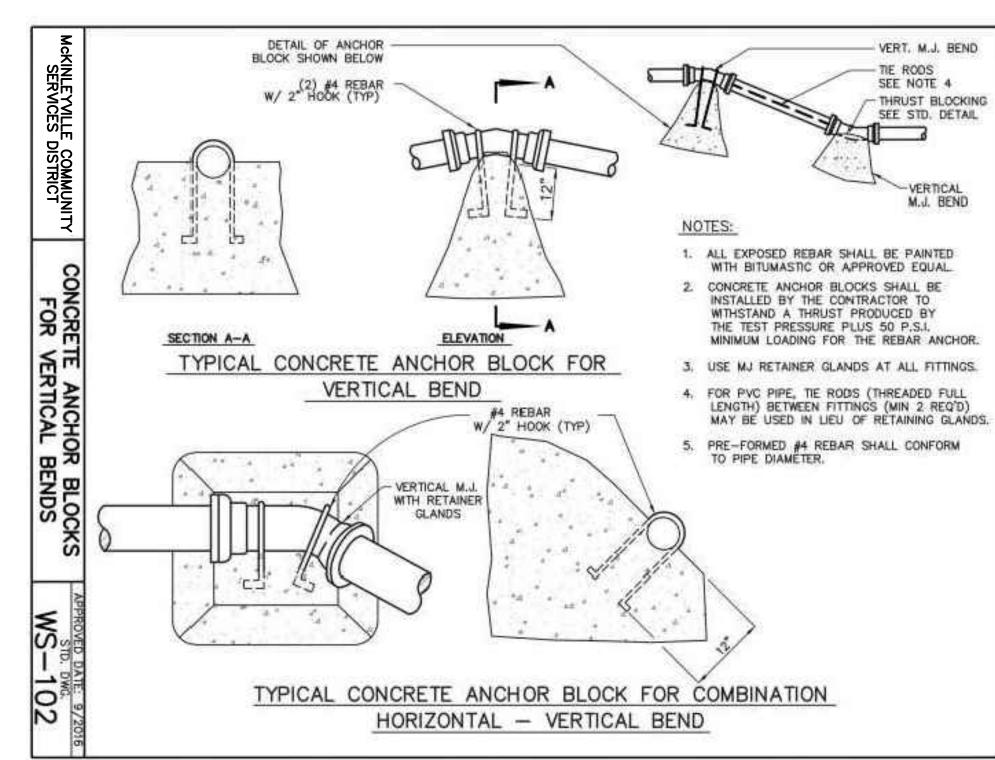
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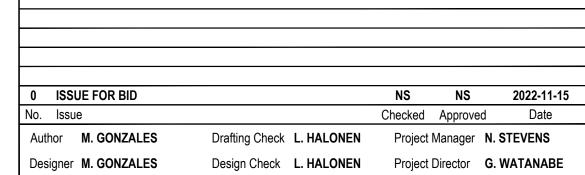
itle CIVIL DETAILS 3 OF 4

WS-100B

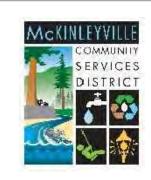








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