



**REQUEST FOR BIDS—Southern Colorado Economic
Development District on behalf of the Town of Walsh; Block 23
Subdivision Sewer Main Extension**

RFB Issued: July 1, 2022

Proposals Due: August 5, 2022, by 12 p.m.

INTRODUCTION

Southern Colorado Economic Development District (SCEDD) is soliciting proposals for construction services for a site in Walsh, CO to be developed for a workforce housing project. The goal for the selected firm is to construct to engineered specification for infrastructure installations including sewer main extensions, curb cuts, and alley grading.

SCEDD is requesting this proposal on behalf of the Town of Walsh for the Southeast Colorado Workforce Housing Project.

CONSTRUCTION SERVICES OVERVIEW

The selected construction company is expected to complete the infrastructure build out for the site in Walsh to engineered specifications.

SUBMISSION REQUIREMENTS

Interested construction companies should review the contents and requirements of this Request for bids and submit their responses no later than 12:00 p.m. on August 5, 2022.

Responses should be provided electronically or dropped off at Town Hall to Donna Packard Dawson at townofwalsh@gmail.com

Questions can be directed to Michael Yerman at (719)221-5380 or Michael@scedd.com.

Bid responses should contain the following elements:

1. Cover Letter, Project Schedule, and Timeline

We are seeking an introductory narrative. This can be part of your email response back to the Town of Walsh. Please provide:

- Brief background of your firms experience with this type of project
- Your experience working with similar communities and your familiarity with Walsh.
- Please provide a detailed schedule and timeline for project completion.

2. Budget

Please Complete **Walsh, CO Block 23 Infrastructure Construction Bid Attachment**

EVALUATION CRITERIA AND REVIEW PROCESS

The RFP selection recommendation will be made by the Town of Walsh. Selection criteria will include:

1. Qualifications of proposed project team;
2. Successful history and experience with past projects in similar communities;
3. Proposed Project Schedule
4. Proposed Budget
5. References.

The selected applicant will be required to enter into a professional services agreement contract with Town of Walsh.

RFB TIMELINE

July 1, 2022	-RFB issued
August 5, 2022	-Proposals due to Town Hall by 12 p.m.
August 8, 2022	-Town of Walsh reviews proposals reviews proposals.
August 15, 2022	-Applicant selection and contract approval by Town of Walsh

TENTATIVE PROJECT TIMELINE

August 15, 2022	-Applicant selection and contract execution
November 15, 2022	-Estimated Project completion

GENERAL CONDITIONS

Reserved Rights:

The Town of Walsh reserves the right to:

- Modify or cancel the selection process or schedule at any time;
- Waive minor irregularities;
- Reject any and/or all responses to this RFB and to seek new proposals when it is in the best interest of the town to do so;
- Seek clarification or additional information from respondents as it deems necessary to the evaluation of the response;
- Request any additional information or evidence from individual respondents;
- Judge the respondent’s written or oral representations as to their veracity, substance and relevance to development of the Property, including seeking and evaluating independent information on any project team;
- Incorporate this RFB and the selected team’s response to this RFB as a part of any formal agreement between the town and the respondent;
- Issue revisions to the RFB or amend the scope of the RFB.

Hold Harmless: By participation in this RFB process, responders agree to hold harmless the Town of Walsh, their officers and employees from all claims, liabilities and costs related to all aspects of the responder selection process.

Public Information: All documents, conversations, correspondence, etc. between the Town and respondents are public information subject to the laws and regulations that govern the Town, unless specifically identified otherwise.

Expenses: All expenses related to any project team’s response to this RFB, or other expenses incurred while the selection process is underway, are the sole obligation and responsibility of that project team.

We appreciate your interest and look forward to hearing from you.

Attachments:

Walsh, CO Block 23 Infrastructure Construction Bid

Walsh Driveway and Alley Plan Engineering Plans

Walsh SS Extension Plan Engineering Plans

Walsh, CO Block 23 Infrastructure Construction Bid

Applicant Name:

Project Name

Walsh Block 23 Infrastructure Construction

Estimated Construction Costs

8" PVC Sanitary Sewer Main 330' (LF)

4- ID Manholes on New 8" Main

6 Curb Cuts and Truncated Domes

Alley Grading & Base

Other Items to complete project

Total Bid

Bids to be returned to Walsh Town Hall

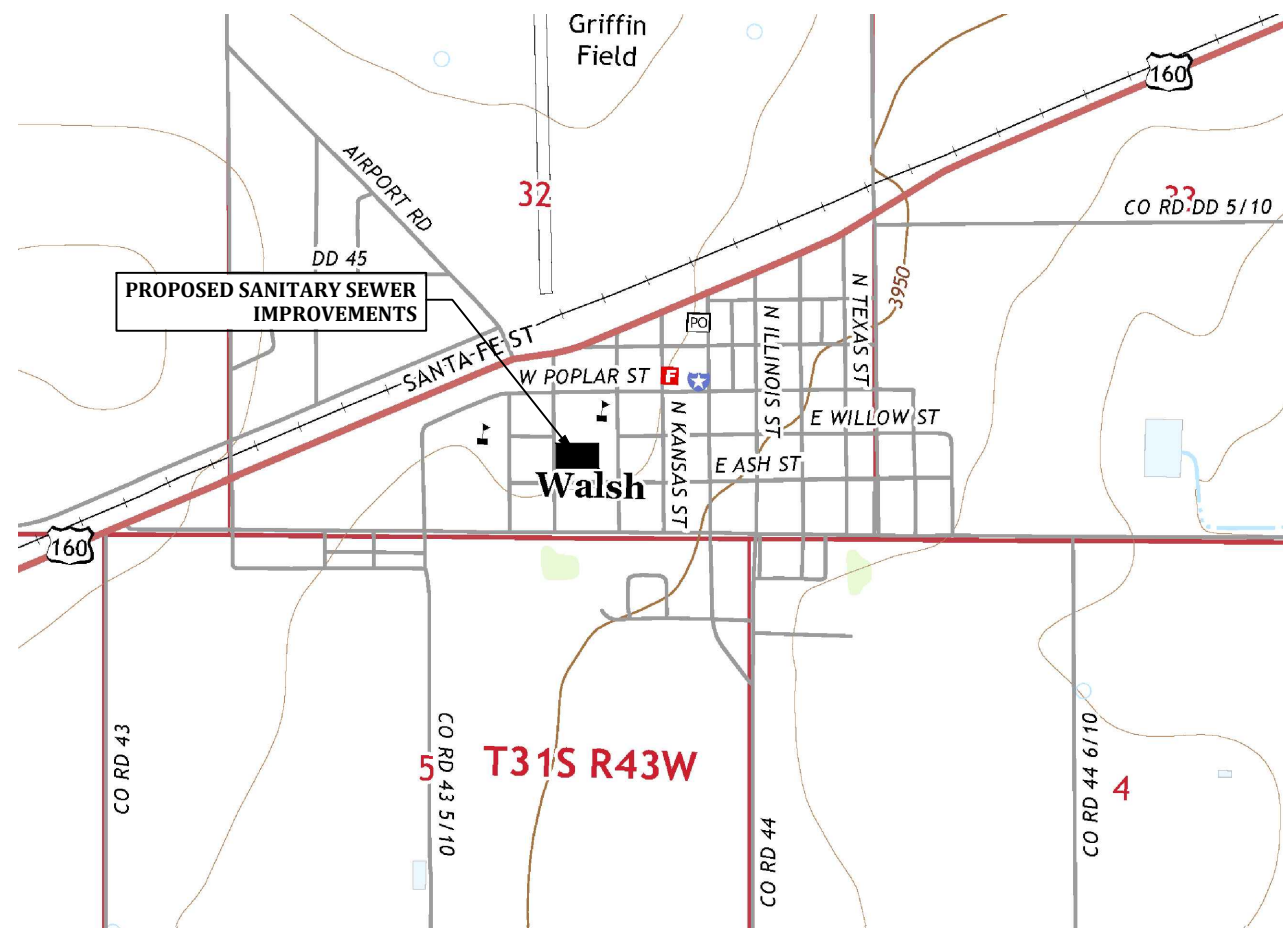
Contractors may bid on one or more items

Signature : _____

On Behalf of (Company): _____

SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE SEWER IMPROVEMENTS 2022

WALSH, COLORADO



EXISTING LEGEND

- BUSH
- CONIFEROUS TREE
- DECIDUOUS TREE
- STUMP
- FLAGPOLE
- MAILBOX
- FENCE
- LANDSCAPED AREA
- LIGHT POLE
- POWER POLE
- UNDERGROUND ELECTRIC
- TELEPHONE PEDESTAL
- UNDERGROUND TELEPHONE LINE
- FIBER OPTIC LINE
- GAS METER
- GAS LINE
- 2-WAY FIRE HYDRANT
- 3-WAY FIRE HYDRANT
- WATER METER
- WATER VALVE
- WATER LINE
- SANITARY SEWER MANHOLE
- SANITARY SEWER LIFT STATION
- SANITARY SEWER LINE
- STORM SEWER MANHOLE
- CORRUGATED METAL PIPE
- REINFORCED CONCRETE BOX
- SURVEY MARK, FD

IMPROVEMENTS LEGEND

- SEWER SERVICE LINE
- SEWER PIPE
- SEWER MANHOLE

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SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE SEWER IMPROVEMENTS 2022
WALSH, CO

Description	Date
FINAL PLANS	5/4/2022

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Title:
COVER

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COVER

SANITARY SEWER IMPROVEMENTS GENERAL NOTES

GENERAL

- CONTRACTOR SHALL MAINTAIN DRAINAGE DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS. POSITIVE DRAINAGE SHALL BE MAINTAINED IN AND AROUND THE SITE TO ELIMINATE STANDING WATER.
- REMOVAL AND REPLACEMENT OF SIGNS, MAILBOXES, FENCES, ORNAMENTAL OR DECORATIVE OBJECTS, LANDSCAPING, AND SIMILAR FEATURES SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM. REPLACEMENT SHALL BE IN SAME OR BETTER CONDITION THAN ORIGINAL INSTALLATION.
- ALL MATERIALS SALVAGED FROM THIS PROJECT ARE THE PROPERTY OF OWNER. AT OWNER'S OPTION, CONTRACTOR SHALL DELIVER SUCH MATERIALS TO OWNER'S DESIGNATED STORAGE YARD OR PROPERLY DISPOSE OF ANY SUCH MATERIALS OWNER DOES NOT WANT. DELIVERY AND DISPOSAL COSTS SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEMS.
- SUBSIDIARY ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT ARE TO BE INCLUDED WITH THE APPROPRIATE ITEM THEY ARE RELATED TO.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS WHICH ARE SHOWN ON PLANS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH HAVE BEEN SHOWN AND WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. NO SEPARATE MEASUREMENT OF PAYMENT WILL BE MADE FOR THIS WORK AS IT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
- CONTRACTOR SHALL DISPOSE OF TREES AND BRUSH IN AN APPROVED AREA. REMOVAL AND DISPOSAL OF TREES AND BRUSH AS NECESSARY FOR INSTALLATION OF NEW SEWERLINE SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM AND SHALL NOT BE PAID FOR SEPARATELY, UNLESS SHOWN SPECIFICALLY OTHERWISE ON THE PLANS.
- CONNECTIONS TO EXISTING SEWER LINES MAY REQUIRE PLUGGING A PORTION OF THE SEWER SYSTEM. PLUGGING AND BY-PASS PUMPING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO OTHER LINE ITEMS.
- CONTRACTOR SHALL MEET ONE YEAR AFTER COMPLETION OF PROJECT TO REVIEW ANY WARRANTY ITEMS TO BE RESOLVED.
- AREAS DISTURBED BY CONSTRUCTION WHICH ARE NOT PAVED OR GRAVELED SHALL BE SEEDED FOR GRASS IN ACCORDANCE WITH THE SPECIFICATIONS.
- CONTRACTOR SHALL COMPLY WITH APPLICABLE LAWS AND REGULATIONS FOR THE SAFETY AND PROTECTION OF PERSONS AND PROPERTY, AND SHALL ERECT AND MAINTAIN NECESSARY SAFEGUARDS FOR SUCH SAFETY AND PROTECTION. CONTRACTOR SHALL PROVIDE SAFE AND HEALTHFUL WORKING CONDITIONS IN ACCORDANCE WITH OCCUPATIONAL SAFETY AND HEALTH STANDARDS (29 CFR 1910) AND SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION (29 CFR 1926) OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION, "MANUAL OF ACCIDENT PREVENTION IN CONSTRUCTION" BY ASSOCIATED GENERAL CONTRACTORS OF AMERICA, AND ALL OTHER APPLICABLE LAWS AND REGULATION. ENSURE THAT SUBCONTRACTORS DO LIKEWISE.
- IT IS THE UNDERSTANDING OF EVANS, BIERLY, HUTCHISON & ASSOCIATES, P.A. THAT NO PERMITTING SHALL BE REQUIRED BY CDPHE FOR THE CONSTRUCTION OF THE SANITARY SEWER EXTENSION. CONTRACTOR SHALL VERIFY PERMIT REQUIREMENTS FROM ANY OTHER LOCAL AGENCIES OR THE CITY OF WALSH.

EXCAVATION

- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL WASTE ENCOUNTERED OR GENERATED ON THIS PROJECT. DISPOSAL COSTS SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM. THE ENTIRE AREA SHALL BE LEFT IN A CLEAN AND SIGHTLY CONDITION.
- ALL EXCAVATION IS UNCLASSIFIED. CONTRACTOR SHALL DETERMINE THE EXTENT OF ROCK EXCAVATION REQUIRED. ROCK EXCAVATION WILL BE SUBSIDIARY TO RELATED WORK. NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK EXCAVATION. ALL EXCAVATION SHALL BE DONE WITH MECHANICAL EQUIPMENT, I.E. TRENCHER, BACKHOE, ROCKSAW.
- DEWATERING SHALL BE CONSIDERED SUBSIDIARY TO RELATED WORK. CONTRACTOR TO INSPECT SITE AND MAKE OR OBTAIN SUCH EXPLORATIONS TO SATISFY HIMSELF AS TO THE ELEVATION OF THE WATER TABLE AND AMOUNT OF DEWATERING REQUIRED. DEWATERING AND ALL RELATED COSTS ARE SUBSIDIARY TO THE PROJECT. NO ADDITIONAL PAYMENT WILL BE MADE FOR DEWATERING ON PROJECT.
- WHERE NOTED ON THE DRAWINGS, CONTRACTOR SHALL TUNNEL UNDER SIDEWALKS, STEPS, GRADE BEAMS, AND SIMILAR STRUCTURES. SUCH CROSSINGS WILL NOT BE PAID FOR SEPARATELY AND SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE PIPE BID ITEM.

TRAFFIC CONTROL

- CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW AT ALL TIME DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS, AND SHALL PROVIDE SUCH PROTECTIVE MEASURES AS ARE REQUIRED TO ENSURE THE SAFETY OF THE GENERAL PUBLIC, EMPLOYEES, AND EQUIPMENT. ALLEYS, DRIVEWAYS, AND OTHER PUBLIC ACCESSSES SHALL BE OPEN TO TRAFFIC AT THE END OF EACH DAY'S WORK UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER OR ENGINEER.

ORDER OF WORK

- CONTRACTOR SHALL PLAN, SCHEDULE, AND COORDINATE OPERATIONS AFFECTING SEWER SERVICES IN A MANNER ACCEPTABLE TO THE ENGINEER AND TO THE CITY, AND SO AS TO MINIMIZE BOTH THE DURATION AND INCONVENIENCE OF SERVICE INTERRUPTIONS. CONTRACTOR SHALL GIVE AMPLE PRIOR NOTICE TO WATER CUSTOMERS REGARDING SERVICE INTERRUPTIONS.
- PRESSURE, ALIGNMENT AND DEFLECTION TESTING WILL BE PERFORMED FOR NEWLY INSTALLED OR REPAIRED MAINS IN ACCORDANCE WITH THE SPECIFICATIONS.

UTILITIES

- CONTRACTOR SHALL VERIFY AND COMPLY WITH UTILITY CROSSING REQUIREMENTS FROM THE FOLLOWING, BUT NOT LIMITED TO HIGH PRESSURE GAS LINES, PETROLEUM PIPELINES, FIBER OPTIC CABLES, AND BURIED POWER LINES.
- CONTRACTORS SHALL LOCATE ALL EXISTING UTILITIES, INCLUDING SERVICE CONNECTIONS AND DROPS, PRIOR TO CONSTRUCTION BY CONTACTING THE RESPECTIVE UTILITY COMPANY AND PROSPECTING. UTILITY LOCATIONS SHOWN ON THE DRAWING ARE NOT GUARANTEED AS TO COMPLETENESS NOR AS TO ACCURACY FOR POSITION, DEPTH, SIZE, OR TYPE OF MATERIAL. CONTRACTOR SHALL CALL COLORADO ONE CALL SYSTEM (DIG SAFE) 1-800-922-1987 OR 811; WWW.KANSASONECALL.COM.

SANITARY SEWER PIPE AND FITTINGS

PIPE & FITTINGS SHALL CONFORM TO THE FOLLOWING, UNLESS OTHERWISE INDICATED IN DRAWING:

- PVC PIPE (8" & 10")
- ASTM D3034: SDR 26, INTEGRAL BELL, GASKET JOINTS.
 - ASTM D1784: MATERIAL CLASS 12454-B OR -C OR 13364-B.
 - ASTM D3212, F477: ELASTOMERIC SEAL (GASKET) JOINTS.

- PVC PIPE (4" SERVICE LINE)
- ASTM D1785, SCH. 40 PVC, SOLVENT WELD.
 - ASTM D2466: SCH. 40 PVC FITTINGS.
 - ASTM F656: PRIMERS FOR SOLVENT CEMENT JOINTS.

CONCRETE

PROPORTIONING OF CONCRETE SHALL BE AS FOLLOWS:

- SIDEWALK, ENCASEMENT AND MISC.
 - AIR-ENTRAINED, MINIMUM 28 DAY STRENGTH OF 3,000 PSI.
 - CEMENT CONTENT - 6.5 SACKS (94 LBS PER SACK) PER CUBIC YARD OF CONCRETE.
 - MIXED AGGREGATE - 20 PERCENT CRUSHED ROCK, MINIMUM.
 - MAXIMUM SIZE AGGREGATE SHALL NOT EXCEED 1/4 OF SLAB THICKNESS.

PIPE AND MANHOLE INSTALLATION

- PIPE AND FITTINGS: LAY TO AND MAINTAIN AT PRESCRIBED LINES AND GRADES. WHEREVER PRACTICABLE, BEGIN PIPE LAYING AT THE LOWEST POINT AND PROCEED UPHILL, AND INSTALL BELLS AT THE UPHILL ENDS OF PIPE SECTIONS.
 - THERE SHALL BE NO PHYSICAL CONNECTION BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND A SEWER, OR APPURTENANCE THERETO, WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER OR POLLUTED WATER INTO THE POTABLE WATER SUPPLY.
 - MAINTAIN A MINIMUM HORIZONTAL DISTANCE OF 10 FEET BETWEEN PARALLEL SEWER AND WATER LINES, INCLUDING SERVICE CONNECTIONS. THE DISTANCE SHALL BE MEASURED FROM EDGE TO EDGE. THE LAYING OF WATER PIPES AND SANITARY SEWERS SHALL BE IN SEPARATE TRENCHES WITH UNDISTURBED EARTH BETWEEN THEM.
 - WHERE A SEWER LINE CROSSES OVER A WATER LINE, OR IS LESS THAN TWO FEET (CLEAR) UNDER THE WATER LINE, EITHER ENCASE THE SEWER LINE IN CONCRETE A MINIMUM OF 6" THICKNESS ON ALL SIDES FOR A 10 FT. DISTANCE ON EACH SIDE OF THE CROSSING OR REPLACE THE CROSSED SECTION OF SEWER LINE BY CENTERING A 20 FT. LONG SECTION OF PVC PIPE AS SPECIFIED. JOINTS IN THE SEWER PIPE SHALL BE LOCATED AS FAR AS PRACTICAL FROM THE INTERSECTED WATER LINE. SOLVENT WELDED JOINTS SHALL NOT BE USED.
 - NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY PART OF A SEWER MANHOLE.
- MANHOLES, CLEANOUTS, AND ACCESSORIES: INSTALL AT REQUIRED LOCATIONS; SET VERTICAL COMPONENTS PLUMB; MAINTAIN RINGS AND COVERS LEVEL AND AT REQUIRED GRADES.
- CLEAN INTERIORS OF PIPE AND FITTINGS OF DIRT AND FOREIGN MATTER PRIOR TO LOWERING INTO THE TRENCH, AND MAINTAIN SUCH CONDITION THROUGHOUT INSTALLATION. WHEN PIPE LAYING IS NOT IN PROGRESS, KEEP OPEN ENDS OF INSTALLED PIPE AND SYSTEM COMPONENTS SUITABLY CLOSED TO PREVENT THE ENTRANCE OF WATER, DIRT, AND OTHER FOREIGN MATTER.
- USE PROPER EQUIPMENT AND METHODS TO LOWER AND PLACE PIPE AND SYSTEM COMPONENTS IN THE TRENCH TO PREVENT DAMAGE: DO NOT DROP OR DUMP PIPE OR COMPONENTS INTO THE TRENCH.
- JOIN PIPE AND SYSTEM COMPONENTS IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. CLEAN GASKETS AND JOINT SURFACES THOROUGHLY, AND INSPECT FOR DAMAGE OR DEFORMATION. LUBRICATE JOINT SURFACES PER MANUFACTURER'S INSTRUCTIONS. ASSEMBLE JOINTS BY HAND OR BY BAR AND BLOCK METHODS; USE MECHANICAL EQUIPMENT ONLY AT THE DIRECTION OF THE MANUFACTURER. DO NOT SWING OR STAB THE JOINT.
- WHEN ABANDONING AN ACTIVE MANHOLE OR TAKING SYSTEM OUT OF SERVICE, CONTRACTOR IS RESPONSIBLE FOR PUMPING AROUND UNTIL NEW COMPONENTS ARE IN SERVICE.

MANHOLE TESTING

VACUUM TEST: LIFT HOLES SHALL BE PLUGGED WITH NON-SHRINK GROUT, AND PIPES ENTERING THE MANHOLE SHALL BE PLUGGED, TAKING CARE TO SECURELY BRACE THE PLUGS FROM BEING DRAWN INTO THE MANHOLE. THE TEST HEAD SHALL BE POSITIONED AT THE TOP OF THE CONE SECTION, AND THE SEAL INFLATED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.

A VACUUM OF 10 INCHES OF MERCURY SHALL BE DRAWN AND THE VACUUM PUMP SHUT OFF. WITH THE VALVES CLOSED, THE TIME FOR THE VACUUM TO DROP TO 9 INCHES SHALL BE MEASURED. THE MANHOLE SHALL PASS IF THE TIME IS GREATER THAN 60 SECONDS FOR 48" DIAMETER MANHOLES, 75 SECONDS FOR 60" DIAMETER MANHOLES, OR 90 SECONDS FOR 72" DIAMETER MANHOLES.

IF A MANHOLE FAILS THE TEST, REPAIRS SHALL BE MADE WITH NON-SHRINK GROUT WHILE THE VACUUM IS STILL BEING DRAWN. ALL TESTING IS PER KDHE PERMITTING AND REQUIREMENTS.

SEWER ALIGNMENT AND TESTING

GENERAL: CONDUCT TESTING IN THE PRESENCE OF ENGINEER. IF A REACH OF SEWER LINE FAILS A TEST, LOCATE AND REPAIR THE DEFECT, AND RETEST UNTIL SPECIFIED PERFORMANCE IS DEMONSTRATED. CONDUCT THE FOLLOWING 3 TESTS ON EACH REACH OF SEWER LINE INSTALLED. ONLY THE LOW PRESSURE AIR TEST CAN BE OMITTED ALONG SEWER LATERALS WITH EXISTING SERVICE CONNECTIONS AND ONLY IF NECESSARY TO MAINTAIN SANITARY SEWER SERVICE. ALL TESTING IS PER KDHE PERMITTING AND REQUIREMENTS.

- ALIGNMENT: THE FULL DIAMETER OF THE PIPE SHALL BE VISIBLE WHEN VIEWED BETWEEN CONSECUTIVE MANHOLES. TESTING SHALL BE ACCOMPLISHED UTILIZING LIGHTS AND MIRRORS, AND CONTRACTOR SHALL ASSIST ENGINEER AS NECESSARY.
- LOW PRESSURE AIR TESTING: TESTING METHODS AND AIR LEAKAGE RATES SHALL CONFORM TO ASTM F1417, WHICH ALLOWS A DROP OF ONE PSI DURING THE TIME CALCULATED. ISOLATE THE REACH TO BE TESTED, INSTALL, RESTRAIN, AND BRACE ALL PLUGS AND CAPS SECURELY TO PREVENT BLOWOUT. NO ONE SHALL BE ALLOWED IN THE MANHOLES DURING TESTING. TO PREVENT OVERPRESSURIZATION, A REGULATOR OR RELIEF VALVE SET NO HIGHER THAN 9 PSI SHALL BE INCLUDED ON PRESSURIZING EQUIPMENT. ADD AIR SLOWLY TO THE TEST SECTION UNTIL PRESSURE REACHES 4 PSI. MAINTAIN PRESSURE BETWEEN 3.5 AND 4.0 PSI UNTIL EQUILIBRIUM IS OBTAINED. BEGIN TEST WITH MINIMUM OF 3.5 PSI. IF A ONE PSI PRESSURE DROP IS OBSERVED WITHIN THE TIME LISTED IN THE FOLLOWING TABLE, THE REACH HAS FAILED THE TEST:

NOMINAL PIPE SIZE, IN	LENGTH OF TEST REACH, FT	MINIMUM TIME FOR 1 PSI LOSS, SEC (MIN:SEC)
8"	<298	454 (7:34)
	≥298	1,520 L
10"	<239	566 (9:26)
	≥239	2,374 L
12"	<199	680 (11:20)
	≥199	3,418 L
15"	<159	850 (14:10)
	≥159	5,342 L
- DEFLECTION: TESTING SHALL BE PERFORMED AFTER BACKFILLING, AND SHALL BE CONDUCTED WITH SUITABLE EQUIPMENT CAPABLE OF ACCURATELY MEASURING ANY DEFLECTION IN THE PIPE'S CROSS-SECTION. DEFLECTION SHALL NOT EXCEED 5% OF THE PIPE'S ACTUAL INTERNAL DIAMETER. REQUIRED FOR 8" AND LARGER PIPE ONLY.



SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE SEWER IMPROVEMENTS 2022

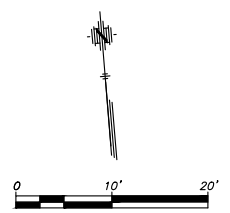
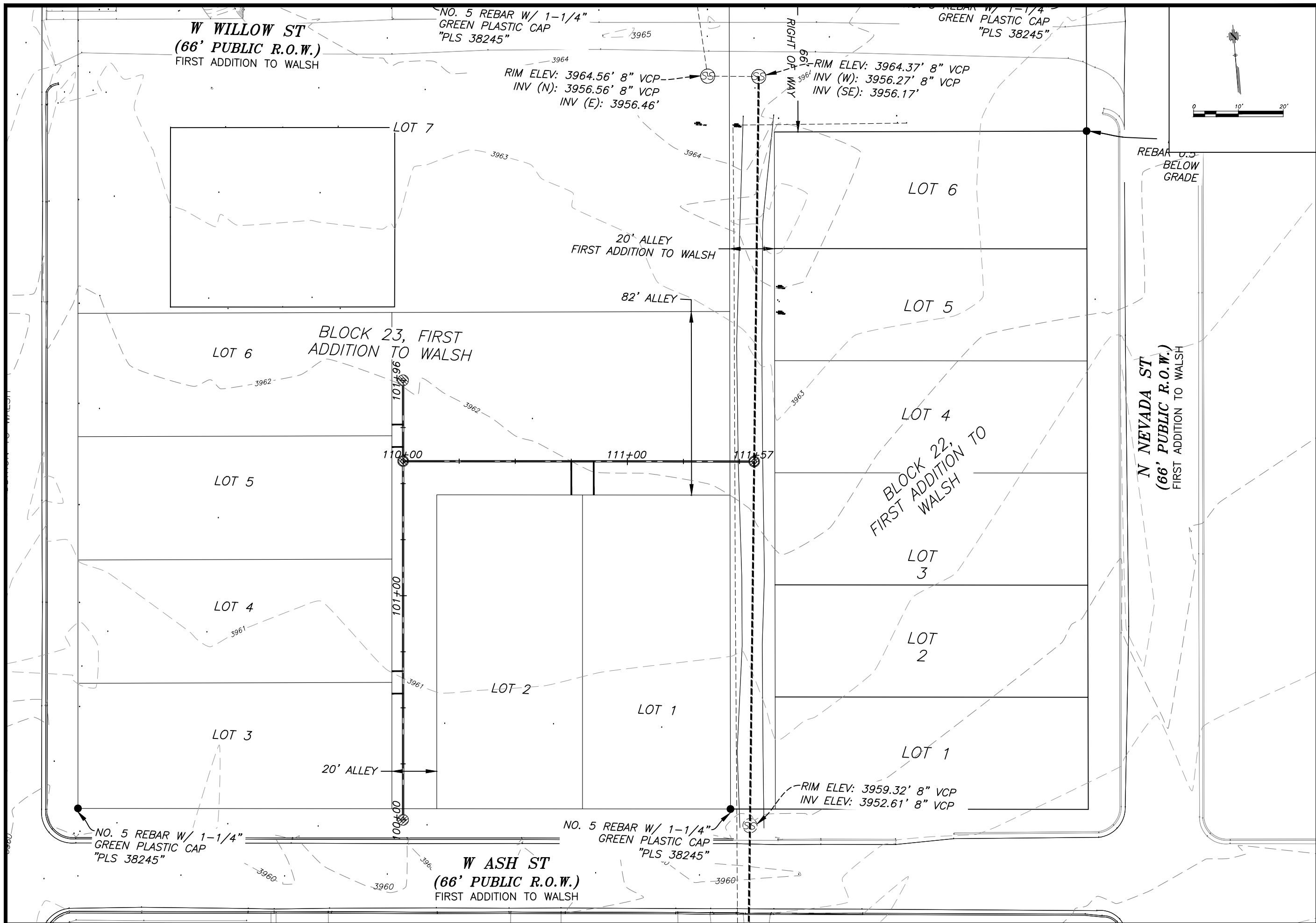
Description	Date
FINAL PLANS	5/4/2022

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GENERAL NOTES

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G101

WALSH, CO



**SOUTHEAST PLAINS WORKFORCE
HOUSING PROJECT - WALSH SITE
SEWER IMPROVEMENTS 2022**

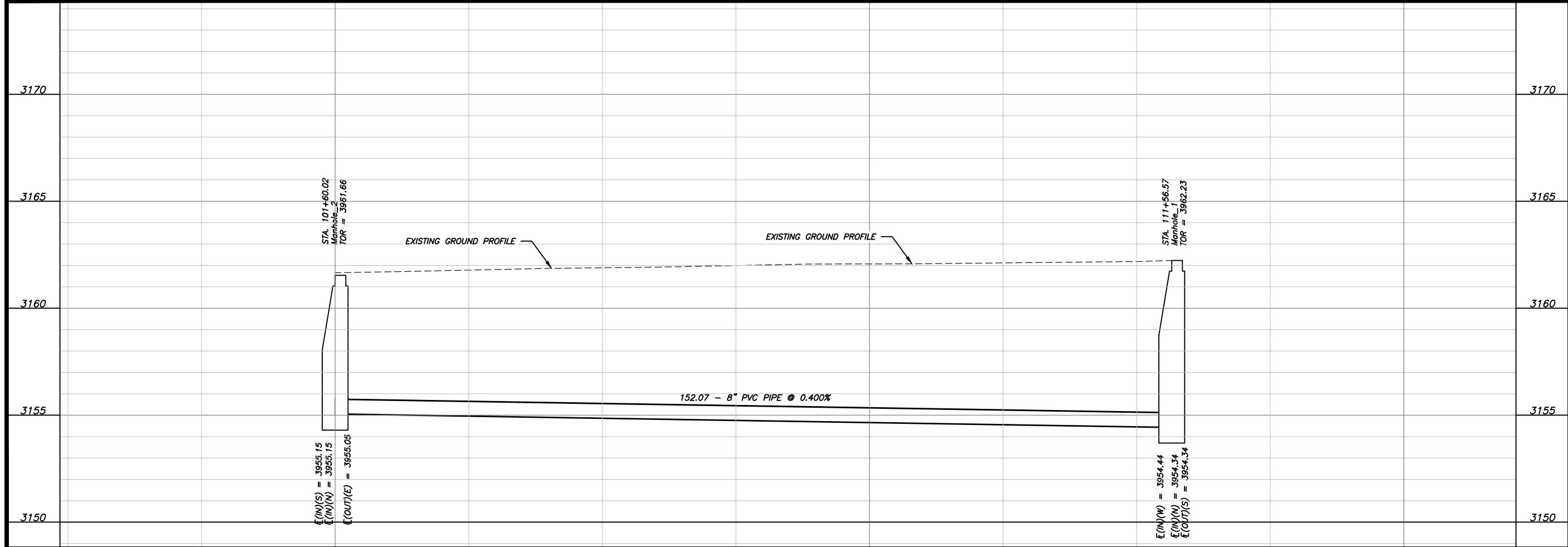
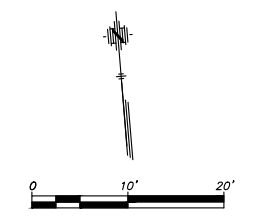
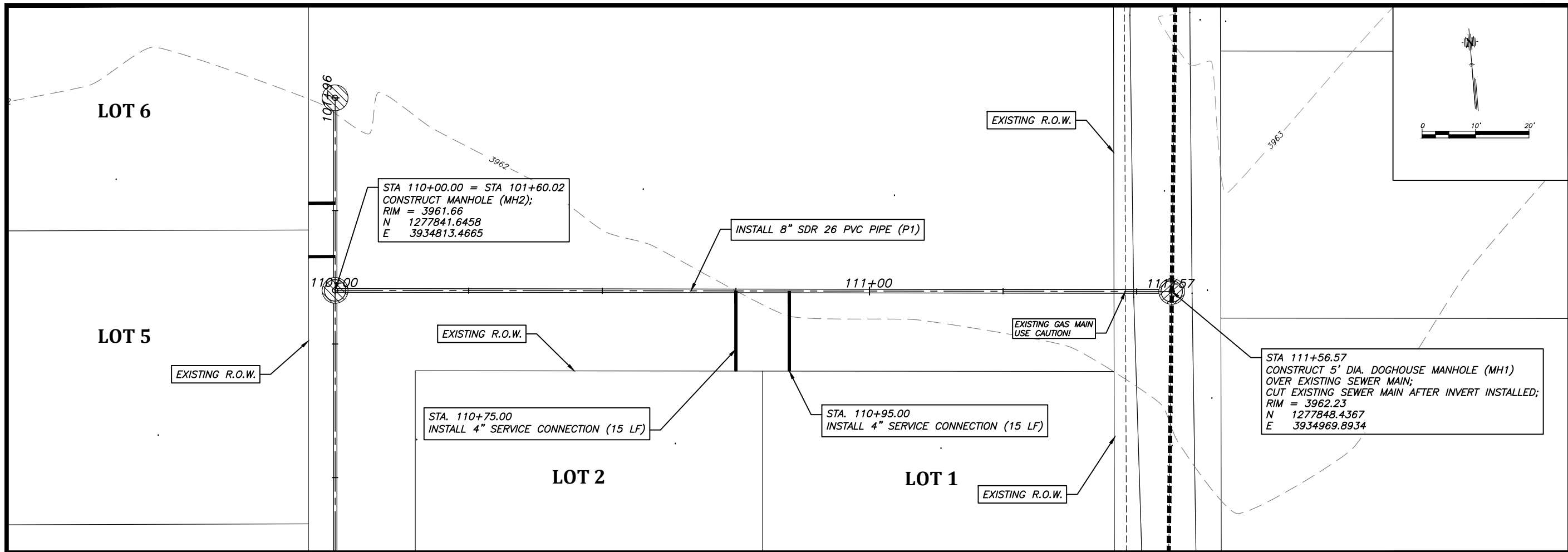
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FINAL PLANS	5/4/2022

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SITE LAYOUT

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CS101



SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE SEWER IMPROVEMENTS 2022
 WALSH, CO

Date	Description
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 Title:
 PLAN & PROFILE STA. 110+00 - 111+57
 Sheet:
CS102

WEST ASH STREET

LOT 3

LOT 4

LOT 5

LOT 6

STA 100+00.00
CONSTRUCT MANHOLE (MH4);
RIM = 3960.50
N 1277681.7825
E 3934820.5875

STA. 101+66.35 & STA. 101+76.35
INSTALL 4" SERVICE CONNECTION (5 LF EACH)

STA 101+60.02 = STA 110+00.00
CONSTRUCT MANHOLE (MH2);
RIM = 3961.66
N 1277841.6458
E 3934813.4665

INSTALL 8" SDR 26 PVC PIPE (P2)

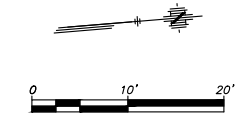
STA 101+96.08
CONSTRUCT MANHOLE (MH3);
RIM = 3962.06
N 1277877.6652
E 3934811.8621

STA. 100+56.30 & STA. 100+66.30
INSTALL 4" SERVICE CONNECTION (5 LF EACH)

INSTALL 8" SDR 26 PVC PIPE (P3)

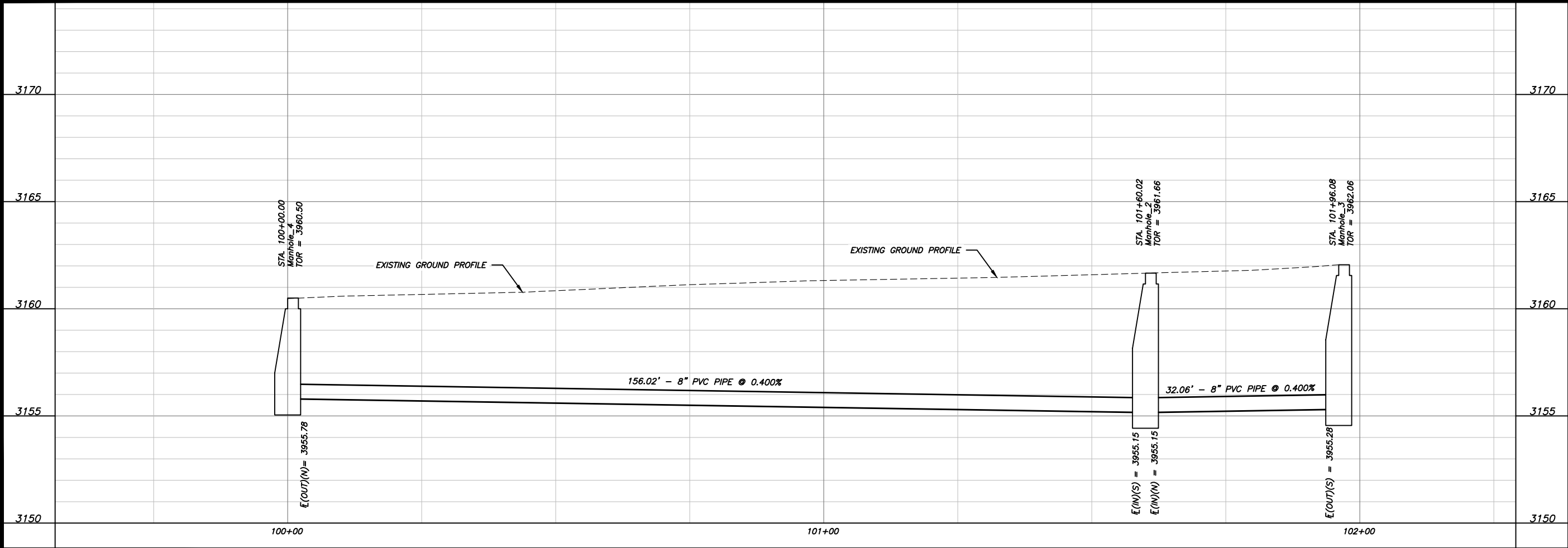
EXISTING R.O.W.

LOT 2



SOUTHEAST PLAINS WORKFORCE
HOUSING PROJECT - WALSH SITE
SEWER IMPROVEMENTS 2022

WALSH, CO



Description	Date
FINAL PLANS	5/4/2022

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SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE SEWER IMPROVEMENTS 2022

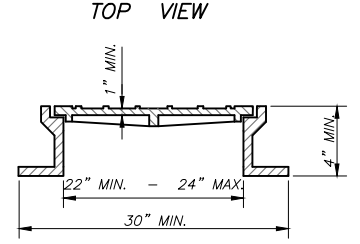
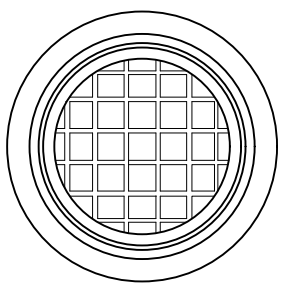
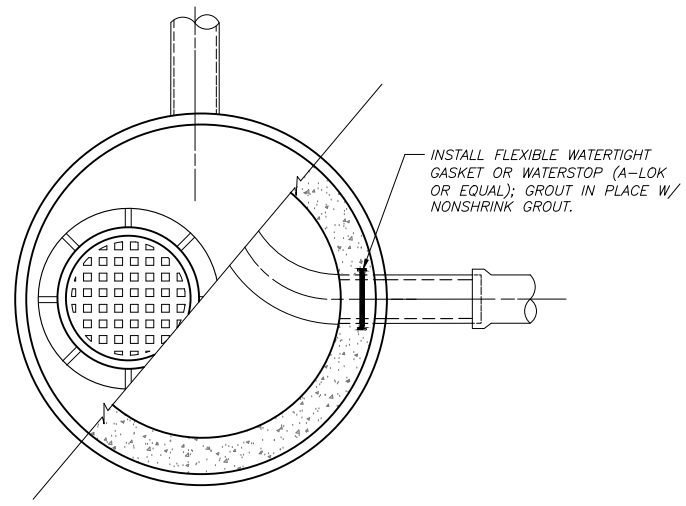
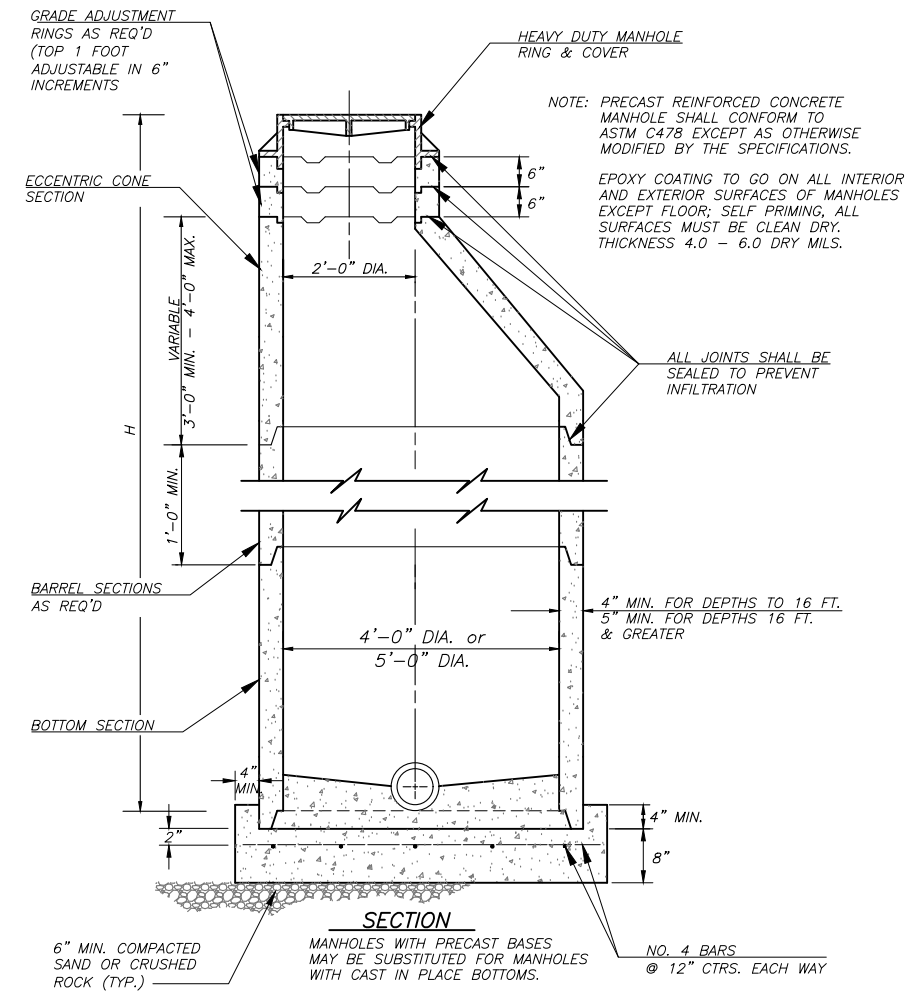
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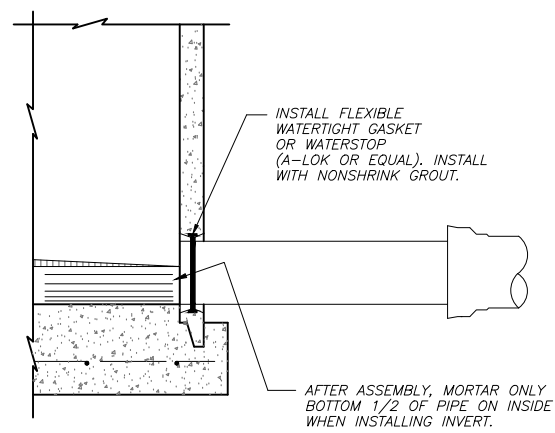
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TYPICAL SEWER MANHOLE DETAILS

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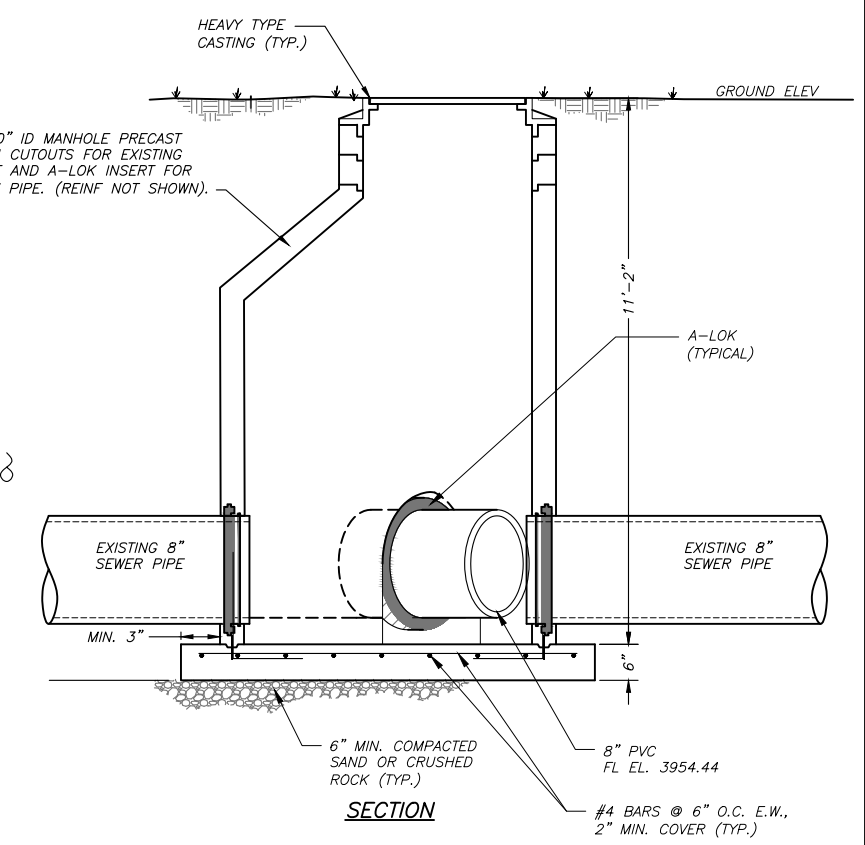
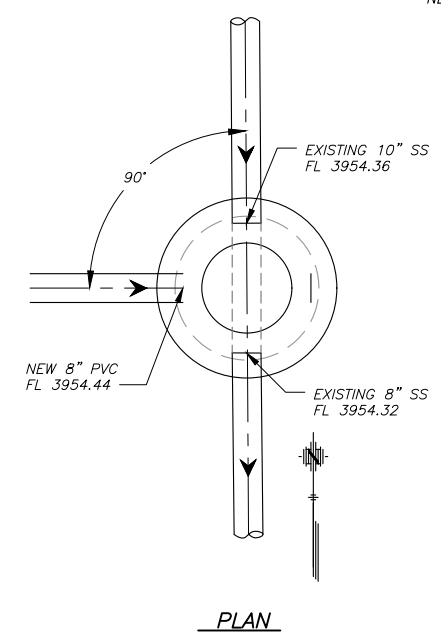
RINGS AND COVERS SHALL BE HEAVY DUTY, GRAY CAST IRON CONFORMING TO ASTM A48, CLASS 35 WITH NONPERFORATED COVERS WHICH ARE MACHINED AND MATCH-MARKED TO PREVENT ROCKING. (EJIW 193621 RING & EJIW 1936A1GS COVER)

332 lb. MANHOLE RING AND COVER

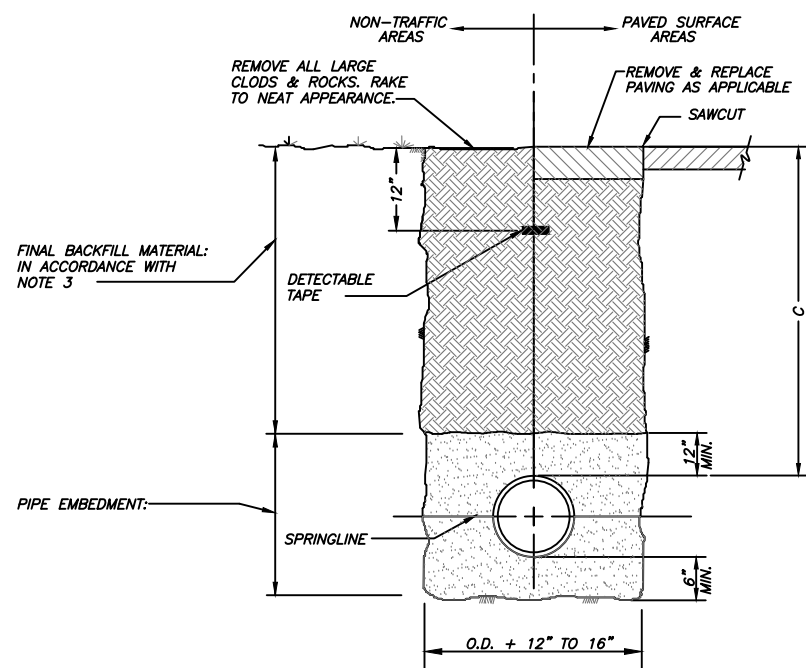


A STANDARD MANHOLE DETAILS

- NOTE: 1. ALL STUB OUT SHALL BE 5' UNLESS OTHERWISE NOTED.
2. INSTALL WATER TIGHT CAPS ON ALL STUB OUT PIPES.

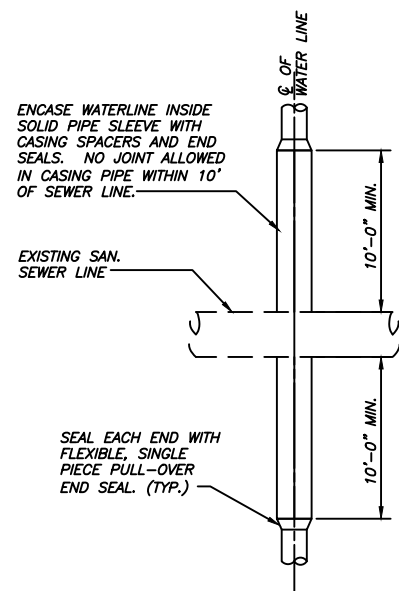


B DOGHOUSE MANHOLE DETAILS



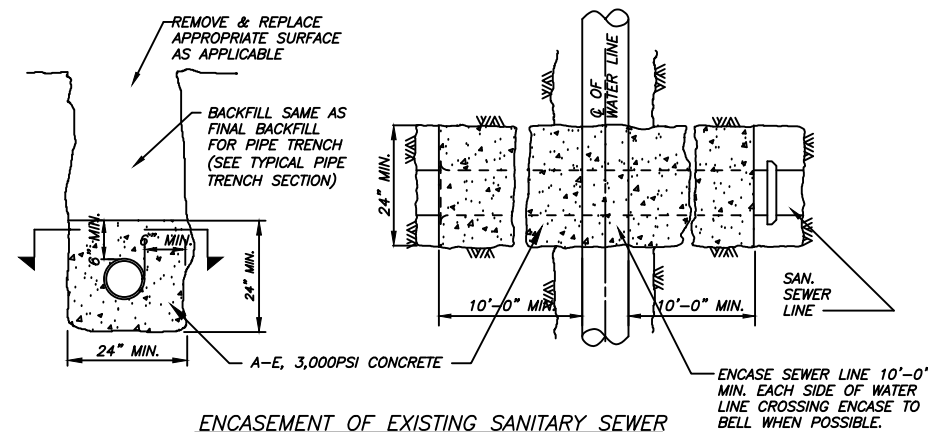
A TYPICAL PVC SEWER PIPE TRENCH SECTION
SEE STANDARD CONSTRUCTION TRENCH NOTES THIS SHEET

- STANDARD TRENCH CONSTRUCTION NOTES
1. TRENCH BOTTOM – TRENCH SHALL BE CONSTRUCTED TO PROVIDE A FIRM, STABLE, AND UNIFORM SUPPORT FOR THE FULL LENGTH OF THE PIPE. WHEN AN UNSTABLE SUBGRADE CONDITION IS ENCOUNTERED WHICH WILL PROVIDE INADEQUATE PIPE SUPPORT, ADDITIONAL TRENCH DEPTH SHALL BE EXCAVATED AND REFILLED WITH SUITABLE FOUNDATION MATERIAL.
 2. PIPE EMBEDMENT – PIPE EMBEDMENT MATERIAL SHALL BE CRUSHED ROCK OR PEA GRAVEL WITH NOT LESS THAN 95% PASSING ON 3/4", AND NOT LESS THAN 95% RETAINED ON A #4, TO BE PLACE IN NOT MORE THAN 6" LAYERS AND COMPACTED BY SLICING WITH A SHOVEL OR VIBRATING.
 3. FINAL BACKFILL – THE BALANCE OF BACKFILL ABOVE PIPE EMBEDMENT SHALL BE FREE OF DEBRIS, ROOTS, VEGETATION, CLODS, AND FROZEN MATERIAL, AND ROCKS OR STONES LARGER THAN 1-1/2 INCHES IN GREATEST DIMENSION. FINAL BACKFILL MATERIAL SHALL BE COMPACTED. FLOWABLE FILL SHALL BE USED IN ALL AREAS LYING DIRECTLY BELOW ANY PAVED ROADWAYS OR CURB AND GUTTER SECTIONS.
 4. COMPACTION – COMPACTION OF EMBEDMENT AND BACKFILL MATERIALS SHALL BE DONE TO SUCH EXTENT THAT NO FURTHER SETTLING OCCURS. COMPACTION MAY BE BY MECHANICAL METHODS OR WATER JETTING: IF BY MECHANICAL METHODS, MATERIAL LIFTS (BEFORE COMPACTION) SHALL NOT EXCEED 6 INCHES; IF WATER JETTING IS USED, MATERIAL SHALL BE FREE –DRAINING AND COMPATIBLE WITH PROCESS.
 5. EXCESS MATERIAL – CONTRACTOR SHALL BE RESPONSIBLE FOR HAULING OFF AND DISPOSING OF EXCESS SOIL AND DEBRIS.



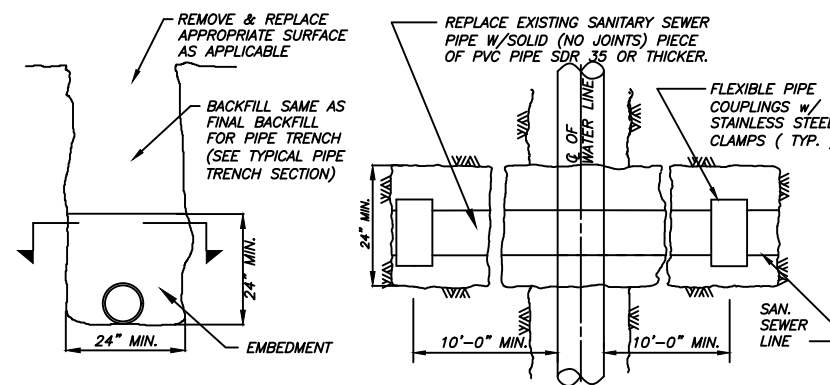
ENCASEMENT OF WATER LINE w/PIPE SLEEVE

OPTION IF WATERLINE IS BELOW SANITARY SEWER OR WATERLINE IS LESS THAN 2' ABOVE SANITARY SEWER.
IF CROSSING IS IN CITY STREET ROW – ENCASEMENT PIPE SHALL BE PVC PIPE AWWA C-900 WITH A MINIMUM WALL THICKNESS OF DR18.



B TYPICAL SANITARY SEWER CROSSING w/ WATER LINE PROTECTION

CENTER FULL LENGTH PIPE FOR WATERLINE OVER SANITARY SEWER AT ALL PLACES WHERE THEY CROSS SO THAT JOINTS ARE LOCATED AS FAR FROM THE CROSSING AS POSSIBLE.
IF WATERLINE IS LESS THAN 2' ABOVE SANITARY SEWER, REPLACEMENT OF EXISTING SANITARY SEWER IS PERMITTED.
IF WATERLINE IS LESS THAN 2' BELOW SANITARY SEWER, REPLACEMENT OF EXISTING SANITARY SEWER IS NOT PERMITTED. AT THE DIRECTION OF THE ENGINEER SANITARY SEWER MAY BE ENCASED IN CONCRETE OR WATERLINE MAY BE ENCASED WITH PVC A MIN. OF 10' EACH WAY.
WATERLINE PROTECTION NOT ACCEPTABLE FOR PRESSURE SEWER LINE WITHOUT SPECIFIC WRITTEN APPROVAL. WATERLINE MUST CROSS ABOVE PRESSURE LINE W/MIN. 2' CLEARANCE.

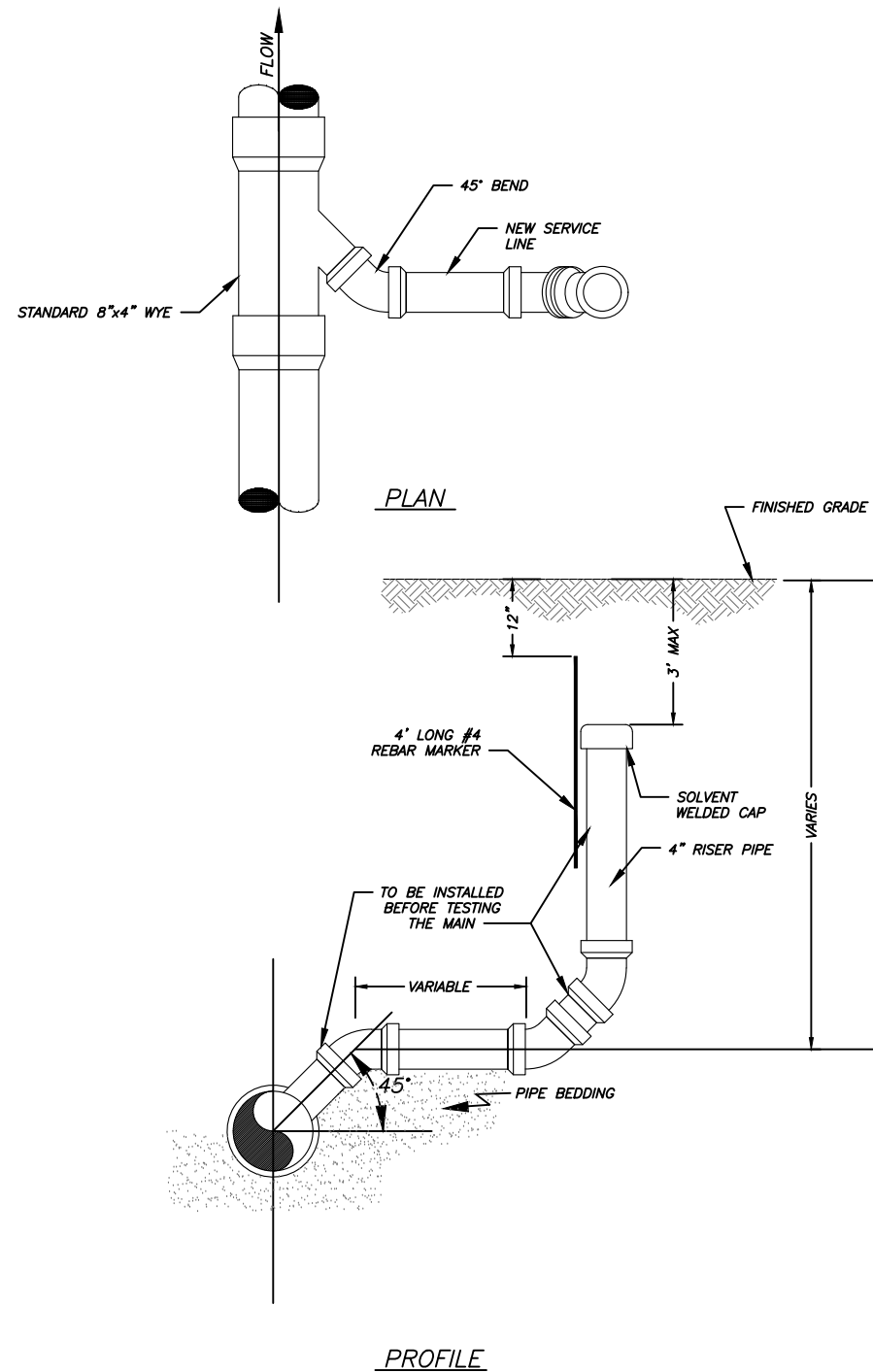


REPLACEMENT OF EXISTING SANITARY SEWER

OPTION IF WATERLINE IS ABOVE SANITARY SEWER AND IF LESS THAN 2' CLEARANCE BETWEEN PIPES.
NOT PERMITTED IF WATERLINE IS BELOW SANITARY SEWER.



Description	Date
FINAL PLANS	5/11/2022



A SERVICE LATERAL CONNECTION

ALL SERVICE CONNECTIONS SHALL BE WITH 4" PIPING. THE BID ITEM FOR SERVICE LATERAL CONNECTION SHALL INCLUDE THE WYE, 45° BENDS, AND SERVICE PIPE. LATERAL SERVICE LINE PIPE AND ALL TRENCHING & BACKFILLING OF SEWER PIPE WILL BE SUBSIDIARY. SERVICE LINES SHALL BE INSTALLED AT A MINIMUM SLOPE OF 1/8" PER LF OR AS DIRECTED BY THE ENGINEER. SERVICE LINE SHALL BE SEALED W/ A SOLVENT WELDED CAP AND INCLUDED IN LINE TESTING. CONTRACTOR TO VERIFY SERVICE CONNECTION SLOPES PRIOR TO CONSTRUCTION.

NOTE: UTILIZE FERNCO TST-4 TAP SADDLE, OR EQUAL ON SERVICE CONNECTIONS TO EXISTING SEWER MAIN.



SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE SEWER IMPROVEMENTS 2022
 WALSH, CO

Description	Date
FINAL PLANS	5/4/2022

Project # R4188.1
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 Title:
 TYPICAL SEWER SERVICE DETAILS
 Sheet:
CS703



Description	FINAL PLANS
Date	5/4/2022

INLET & MANHOLE DATA

ROUTING SEQUENCE		LOCATIONS OF INSTALLATIONS		CONSTRUCT OR INSTALL			DIMENSIONS						ELEVATIONS	INFLOW CONDUITS				OUTFLOW CONDUITS						
		FROM	TO	STATION	STRUCTURE IDENTIFICATION				L (FT.)	W (FT.)	H (FT.)	L ₁ (FT.)	W ₁ (FT.)	H ₁ (FT.)	TOP	SIZE DIRECT.	FLOWLINE ELEV.	SIZE DIRECT.	FLOWLINE ELEV.	SIZE DIRECT.	FLOWLINE ELEV.	SIZE DIRECT.	FLOWLINE ELEV.	
P1	EXISTING		111+56.57		MH1					7.91				3962.23	8" W	3954.44	8" N	3954.36	8" S	3954.32				
P2/P3	P1		110+00.00		MH2					6.61				3961.66	8" N	3955.15	8" S	3955.15	8" E	3955.05				
		P2	101+96.08		MH3					6.78				3962.06					8" S	3955.28				
		P3	100+00.00		MH4					4.78				3960.50					8" N	3955.78				

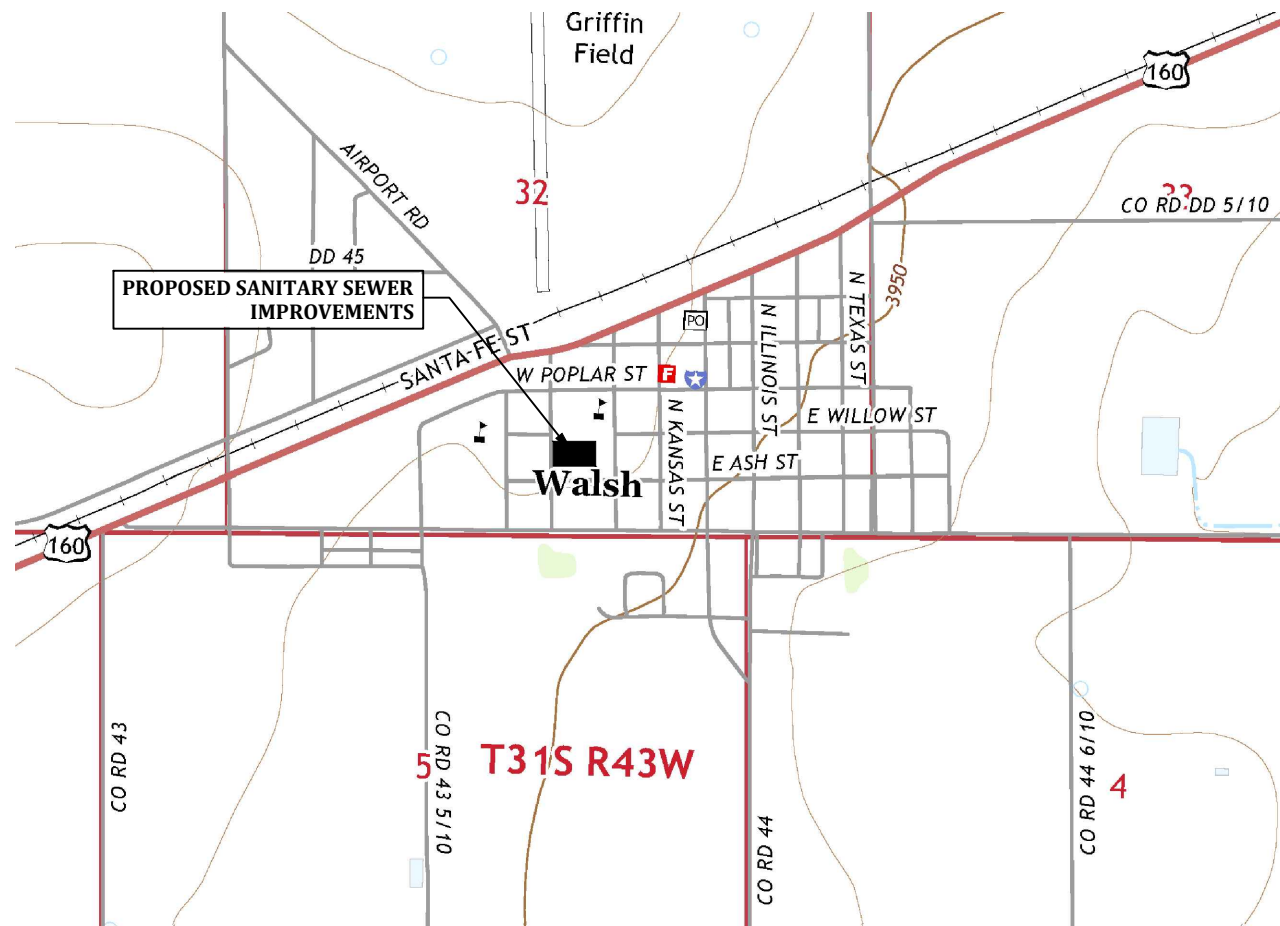
CONDUIT DATA

ROUTING SEQUENCE		LOCATIONS OF INSTALLATIONS		CONSTRUCT OR INSTALL		CONDUIT FLOWLINES																			
		FROM	TO	STATION	ROUTE IDENTIFICATION	TYPE OF CONDUIT		INFLOW ELEV.	OUTFLOW ELEV.																
						SIZE	MATERIAL																		
MH4	MH2		100+00-101+60.02		P3	8"	SDR 26 PVC	3955.78	3955.15																
MH3	MH2		101+60.02-101+96.08		P2	8"	SDR 26 PVC	3955.28	3955.15																
MH2	MH1		110+00-111+56.57		P1	8"	SDR 26 PVC	3955.05	3954.44																

- Note: Top Elevation is located as follows:
1. Manhole - Top of Manhole Ring
 2. Curb Inlet - Top of curb.
 3. Gutter Inlet - Top back of gutter.
 4. Inlet - Manhole, Special - Top of Grate.
 5. Ditch Inlet - Top of Concrete at Cover Plate.

SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE ALLEY AND DRIVEWAY IMPROVEMENTS 2022

WALSH, COLORADO



- EXISTING LEGEND**
- ⊗ BUSH
 - ☀ CONIFEROUS TREE
 - DECIDUOUS TREE
 - ⊠ STUMP
 - ▣ FLAGPOLE
 - ☐ MAILBOX
 - FCE- FENCE
 - LSA- LANDSCAPED AREA
 - ⊙ LIGHT POLE
 - ⊖ UGE- UNDERGROUND ELECTRIC
 - ⊖ UGT- UNDERGROUND TELEPHONE LINE
 - FO- FIBER OPTIC LINE
 - ⊙ GAS METER
 - GAS- GAS LINE
 - ⊙ 2-WAY FIRE HYDRANT
 - ⊙ 3-WAY FIRE HYDRANT
 - ⊙ WATER METER
 - ⊙ WATER VALVE
 - W- WATER LINE
 - ⊙ SANITARY SEWER MANHOLE
 - ⊙ SANITARY SEWER LIFT STATION
 - SS- SANITARY SEWER LINE
 - ⊙ STORM SEWER MANHOLE
 - CMP- CORRUGATED METAL PIPE
 - RCB- REINFORCED CONCRETE BOX
 - SURVEY MARK, FD

- IMPROVEMENTS LEGEND**
- ==== SEWER SERVICE LINE
 - ==== SEWER PIPE
 - ⊙ SEWER MANHOLE

- INDEX OF DRAWINGS**
- COVER
- G101 GENERAL NOTES
- CS101 SITE LAYOUT
- CS102 PLAN & PROFILE - STA. 110+00 to STA. 111+57
- CS103 PLAN & PROFILE - STA. 100+00 to STA. 101+96
- CS701 TYPICAL SEWER MANHOLE DETAILS
- CS702 TYPICAL SEWER PIPE DETAILS
- CS703 TYPICAL SEWER SERVICE DETAILS
- CS704 SCHEDULE OF PIPING AND MANHOLES



SOUTHEAST PLAINS WORKFORCE HOUSING PROJECT - WALSH SITE ALLEY AND DRIVEWAY IMPROVEMENTS 2022 WALSH, CO

Description	Date
FINAL PLANS	5/4/2022

Project # R4188.1
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Title: COVER

Sheet: COVER

N.T.S.

STREET IMPROVEMENTS GENERAL NOTES

CONTRACTOR SHALL LOCATE ALL EXISTING UTILITIES, INCLUDING SERVICE CONNECTIONS AND DROPS, PRIOR TO CONSTRUCTION BY CONTACTING THE RESPECTIVE UTILITY COMPANY AND PROSPECTING. UTILITY LOCATIONS SHOWN ON THE DRAWINGS ARE NOT GUARANTEED AS TO COMPLETENESS NOR AS TO ACCURACY FOR POSITION, DEPTH, SIZE, OR TYPE OF MATERIAL. CONTRACTOR SHALL CALL COLORADO ONE CALL SYSTEM (DIG SAFE).

1. CONTRACTOR SHALL MAINTAIN TRAFFIC FLOW AT ALL TIMES DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS, AND SHALL PROVIDE SUCH PROTECTIVE MEASURES AS ARE REQUIRED TO ENSURE THE SAFETY OF THE GENERAL PUBLIC, EMPLOYEES, AND EQUIPMENT. ALLEYS, DRIVEWAYS, AND OTHER PUBLIC ACCESSES SHALL BE OPEN TO TRAFFIC AT THE END OF EACH DAY'S WORK UNLESS OTHERWISE APPROVED IN WRITING BY THE OWNER OR ENGINEER.
2. REMOVAL AND REPLACEMENT OF SIGNS, MAILBOXES, FENCES, ORNAMENTAL OR DECORATIVE OBJECTS, LANDSCAPING, AND SIMILAR FEATURES SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM, UNLESS OTHERWISE PROVIDED HEREIN. THE CONTRACTOR SHALL REPAIR, AT HIS EXPENSE, ANY AREAS DAMAGED BY CONSTRUCTION INCLUDING, BUT NOT LIMITED TO GRAVEL STREETS, UTILITIES, SPRINKLER SYSTEMS, LAWNS AND ANY OTHER EXISTING IMPROVEMENT NOT SPECIFICALLY MENTIONED. SUCH REPAIRS SHALL BE CONSIDERED SUBSIDIARY TO OTHER BID ITEMS.
3. CONTRACTOR SHALL RELOCATE DUMPSTERS OUT OF THE WORK AREA OR CLOSED ALLEYS AS DIRECTED BY THE ENGINEER OR CITY, AND RETURN AT THE COMPLETION OF CONSTRUCTION. NOT ALL DUMPSTER RELOCATES MAY BE SHOWN ON THE PLANS.
4. CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER DISPOSAL OF ALL WASTE ENCOUNTERED OR GENERATED ON THIS PROJECT WHICH IS NOT SALVAGED. DISPOSAL COSTS SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM. THE ENTIRE AREA SHALL BE LEFT IN A CLEAN AND SIGHTLY CONDITION.
5. ALL EXCAVATION FOR TRENCHING IS UNCLASSIFIED. CONTRACTOR SHALL DETERMINE THE EXTENT OF ROCK EXCAVATION REQUIRED. EXCEPT AS OTHERWISE SHOWN, ROCK EXCAVATION WILL BE SUBSIDIARY TO RELATED WORK. NO ADDITIONAL PAYMENT WILL BE MADE FOR ROCK EXCAVATION. ALL EXCAVATION SHALL BE DONE WITH MECHANICAL EQUIPMENT, i.e. TRENCHER, BACKHOE, ROCKSAW.
6. SUBSIDIARY ITEMS WILL NOT BE PAID FOR SEPARATELY, BUT ARE TO BE INCLUDED WITH THE APPROPRIATE ITEM THEY ARE RELATED TO.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PRESERVING PROPERTY IRONS WHICH ARE SHOWN ON PLANS. THE CONTRACTOR SHALL BE REQUIRED TO REESTABLISH ANY PROPERTY IRONS WHICH HAVE BEEN SHOWN AND WHICH ARE DAMAGED OR DESTROYED BY HIS CONSTRUCTION OPERATIONS. SUCH IRONS SHALL BE REESTABLISHED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH STATE LAWS. EXCEPT AS OTHERWISE PROVIDED, NO SEPARATE MEASUREMENT OF PAYMENT WILL BE MADE FOR THIS WORK AS IT SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
8. CONTRACTOR SHALL HAVE WATER TRUCKS AND EQUIPMENT AVAILABLE DURING ALL CONSTRUCTION FOR USE IN SUPPRESSION OF BLOWING DIRT AND DEBRIS. OWNER CAN REQUEST WATERING OR OTHER SUPPRESSION MEASURES BE UNDERTAKEN AS CONDITIONS REQUIRE, AND SHALL BE CONSIDERED SUBSIDIARY TO OTHER ITEMS IN THE CONTRACT.
9. CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE IN AND AROUND THE SITE TO ELIMINATE STANDING WATER DURING CONSTRUCTION IN ACCORDANCE WITH THE SPECIFICATIONS.
10. CONTRACTOR SHALL DISPOSE OF TREES AND BRUSH IN AN APPROVED AREA. REMOVAL AND DISPOSAL OF TREES AND BRUSH AS NECESSARY FOR INSTALLATION OF STREETS/STORM SEWER SHALL BE CONSIDERED SUBSIDIARY TO THE APPROPRIATE BID ITEM AND SHALL NOT BE PAID FOR SEPARATELY.
11. WHERE SAW CUT IS REQUIRED FOR REMOVAL OF EXISTING MATERIAL, THE SAW CUT SHALL BE THE FULL DEPTH OF THE EXISTING MATERIAL. THE SAW CUT SHALL BE CONSIDERED SUBSIDIARY TO THE VARIOUS SURFACING ITEMS INVOLVED. ANY AREAS REQUIRING REMOVAL OF CONCRETE PAVING OR CURB & GUTTER SHALL BE SAW CUT PRIOR TO REMOVAL OF SAID ITEM.
12. ANY DE-WATERING SHALL BE CONSIDERED SUBSIDIARY TO RELATED WORK.
13. GUTTERS AND INLETS MUST BE MAINTAINED FREE OF SILT AND DEBRIS THROUGHOUT THE CONSTRUCTION OF ALL STREETS. CONTRACTOR SHALL CLEAN OUT INLETS AS DIRECTED BY THE ENGINEER.
14. REPAIRS TO UNDERGROUND ELECTRIC, SANITARY SEWER AND WATERLINES, STORM DRAINAGE LINES, GRAVEL STREETS, SIDEWALKS, SPRINKLER SYSTEMS, STRUCTURES AND ANY OTHER EXISTING UTILITIES OR OBJECTS ARE SUBSIDIARY TO THE PROJECT. NO PAYMENT WILL BE MADE FOR MOVING OR REPAIRING LINES DAMAGED BY CONSTRUCTION.
15. DAMAGE TO EXISTING STREETS, SIDEWALKS, CURB & GUTTER, ETC. FROM TRUCK TURNING ENTERING AND EXITING THE PROJECT SITE SHALL BE REPAIRED AND IS SUBSIDIARY TO THE PROJECT. TIRE TRACKS, ASPHALT FAILURE, POTHOLE, RUTS, OR ANY OTHER STREET DAMAGE MUST BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE CITY OR PROPERTY OWNERS. NO PAYMENT WILL BE MADE FOR REPAIRS MADE.

CONCRETE SPECIFICATIONS

- A. AIR ENTRAINED CLASS 4 CONCRETE FOR PAVEMENT AND CURB.
- B. CLASS 4 CONCRETE SHALL CONTAIN A MINIMUM OF 6.25 SACKS (94 lb. PER SACK) PER CUBIC YARD OF CONCRETE, AND MINIMUM 45% COARSE AGGREGATE.
- C. AGGREGATES SHALL MEET CDOT SPECIFICATIONS FOR USE IN THE CONCRETE PAVEMENT.
- D. ALL TIE BARS INSERTED INTO DRILLED HOLES INTO NEW OR EXISTING CONCRETE SHALL BE EPOXIED, EPOXY-RESIN MEETING KDOT SPECIFICATIONS AND PREQUALIFICATION.



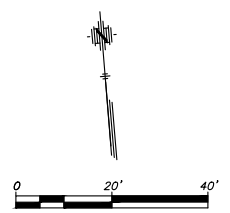
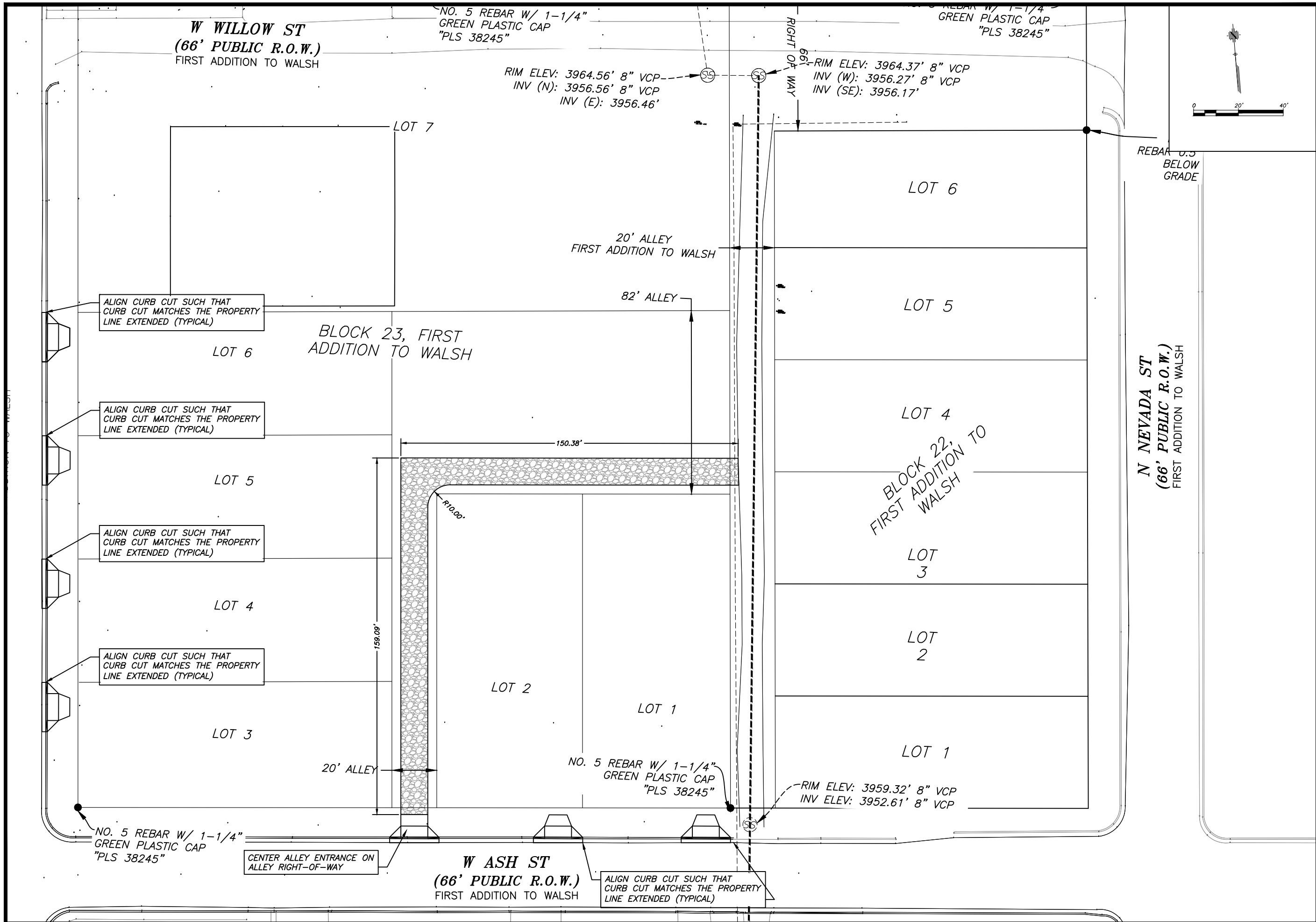
**SOUTHEAST PLAINS WORKFORCE
HOUSING PROJECT - WALSH SITE
ALLEY AND DRIVEWAY
IMPROVEMENTS 2022
WALSH, CO**

Description	Date
FINAL PLANS	5/4/2022

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GENERAL NOTES

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G101



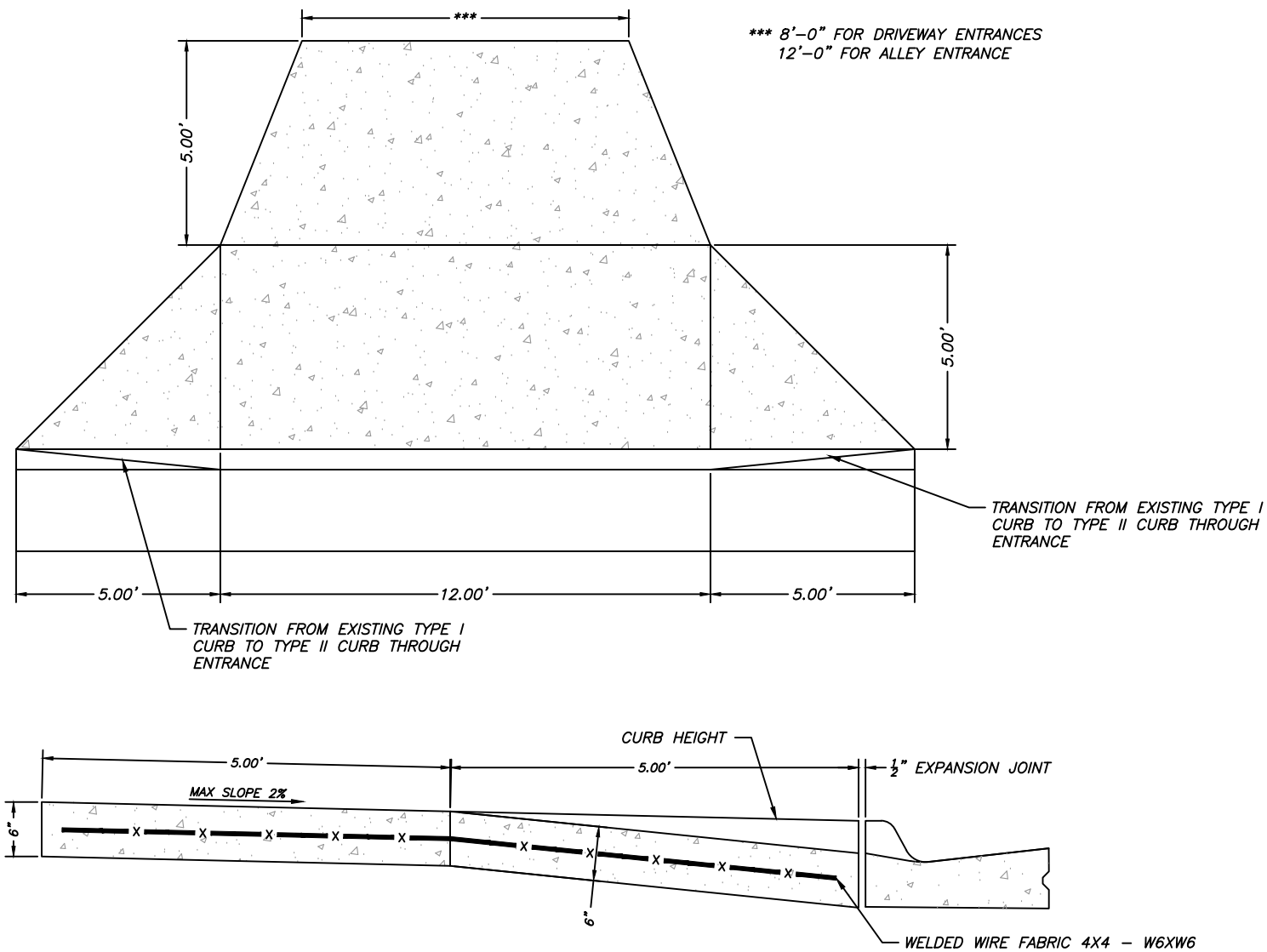
**SOUTHEAST PLAINS WORKFORCE
HOUSING PROJECT - WALSH SITE
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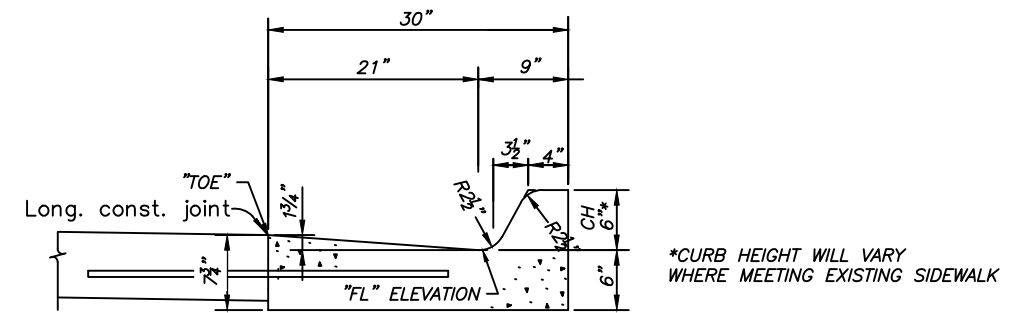
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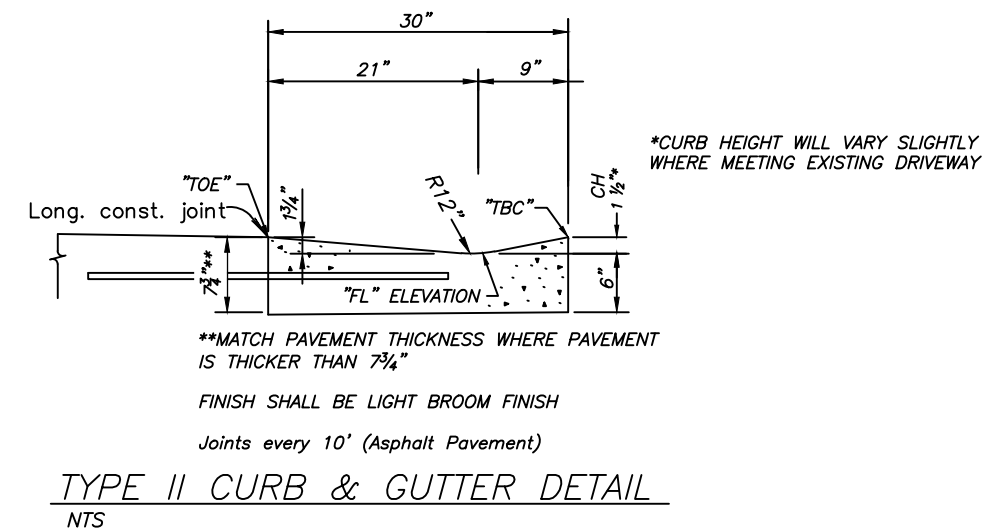


DRIVEWAY & ALLEY ENTRANCE DETAIL
NTS

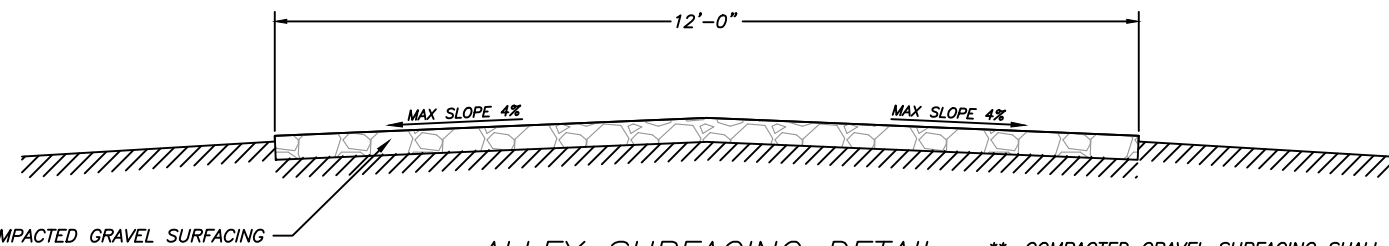
NOTE: ALL NEW CURB SHALL BE TIED TO EXISTING CURB BY DRILLING AND EPOXY



TYPE I CURB & GUTTER DETAIL
NTS



TYPE II CURB & GUTTER DETAIL
NTS



ALLEY SURFACING DETAIL
NTS

** COMPACTED GRAVEL SURFACING SHALL BE LIKE MATERIAL USED FOR LOCAL COUNTY ROADS OR LIKE MATERIAL USED FOR CURRENT ALLEY WAYS LOCATED WITHIN THE CITY OF WALSH.
** 3" OF EXISTING GROUND COVER SHALL BE GRUBBED AND REMOVED.
** NEW GRAVEL SURFACING SHALL BE CONSTRUCTED SUCH THAT THE EDGES ARE CONSTRUCTED TO 1" ABOVE EXISTING GRADE.

Description	Date
FINAL PLANS	5/4/2022