SECTION 00911 - ADDENDUM 4

PART 1 - GENERAL

1.1 PROJECT INFORMATION

A. Project Name: South Main Corridor Improvement Project

B. Engineer: SK Design Group, Inc.

C. Engineer's Project Number: 16-108.

D. Date of Addendum: March 8, 2021

1.2 NOTICE TO BIDDERS

A. This Addendum is issued to all registered plan holders pursuant to the Instructions to Bidders and Conditions of the Contract. This Addendum serves to clarify, revise, and supersede information in the Project Manual, Drawings, and previously issued Addenda. Portions of the Addendum affecting the Contract Documents will be incorporated into the Contract by enumeration of the Addendum in the Owner/Contractor Agreement.

B. The Bidder shall acknowledge receipt of this Addendum in the appropriate space on the Bid Form.

1.3 DRAWING REVISIONS

A. The drawings from Addendum 3 were inadvertently omitted from Addendum 3 and are therefore included as Addendum 4 as follows below.

B. Delete the following drawing sheets in their entirety and replace with attached revised and clouded drawings, with the revision date of 03/05/2021.

1. C00.51 Revised general sequence of work and Utility notes.
2. C00.52 Revised Base Bid Quantities.
3. C00.61 Added Typical Section #7 for Highway V
4. C04.00 Revised Sheet number on views
5. C04.31 Added note for Straight Curb and Pavement patch.
6. C08.01 Added note and Schedule.
7. C09.00 Added General Waterline notes and Legend.
8. C09.01 Added stationing to profile view and Revised note in plan view.
9. C09.02 Added stationing to profile view and Revised note in plan view.
10. C09.11 Added stationing to profile view and Revised note in plan view.
11. C09.12 Added stationing to profile view, Revised note in plan view and Added Gate Valve.
12. C09.13 Added stationing to profile view and Revised note in plan view.
13. C09.14 Added stationing to profile view, Revised note in plan view and added 2 gate valves.

14. C09.15 Added stationing to profile view and Revised note in plan view.
15. C09.16 Added stationing to profile view, Revised note in plan view and added gate valve.
16. C09.17 Added stationing to profile view and Revised note in plan view.
17. C09.18 Added stationing to profile view and added gate valve.
18. C09.19 Added stationing to profile view and Revised note in plan view.
19. C09.20 Added stationing to profile view and Revised note in plan view.
20. C09.21 Added stationing to profile view and Revised note in plan view.
21. C09.51 Revised Electrical General notes.
22. C10.02 Added Straight curb and Pavement Patch Details.
23. C10.03 Cleaned Up Notes.

PART 2 - PRODUCTS - NOT USED

PART 3 - EXECUTION - NOT USED

END OF SECTION 00911

GENERAL NOTES

1. ALL CONSTRUCTION SHALL COMPLY WITH AMERICAN PUBLIC WORKS ASSOCIATION (APWA) AND CITY OF MARYVILLE STANDARD SPECIFICATIONS UNLESS NOTED OTHERWISE BY PLANS AND SPECS.
2. ALL WORKMANSHIP AND MATERIALS SHALL BE SUBJECT TO INSPECTION AND APPROVAL OF THE CITY OF MARYVILLE, MISSOURI.
3. LINEAL FOOT MEASUREMENTS SHOWN ON THE PLANS ARE HORIZONTAL MEASUREMENTS. ALL PAYMENTS SHALL BE MADE ON HORIZONTAL MEASUREMENTS.
4. ALL WASTE MATERIAL RESULTING FROM THE PROJECT SHALL BE DISPOSED OF OFF-SITE BY THE CONTRACTOR IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.
5. ALL EXCAVATION SHALL BE UNCLASSIFIED. NO SEPARATE PAYMENT WILL BE ADJUSTED FOR THIS PROJECT.
6. THE CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS AND FEES.
7. THE CONTRACTOR IS RESPONSIBLE FOR ALL TRAFFIC CONTROL. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL AS RECOMMENDED BY M.U.T.C.D.
8. THE CONTRACTOR SHALL MAINTAIN DRAINAGE AND EROSION CONTROL DURING CONSTRUCTION AND IS RESPONSIBLE FOR ALL DE-WATERING NECESSARY DURING CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL PERMITTING FOLLOWING LOCAL, STATE, AND FEDERAL EROSION AND SEDIMENTATION CONTROL REQUIREMENTS. ALL EROSION CONTROL MEASURES SHALL BE INSTALLED IN ACCORDANCE WITH KC METRO APWA STANDARD DRAWINGS.
9. THE CONTRACTOR SHALL VERIFY THAT THE SOIL CONDITIONS ARE SUITABLE FOR PLANTING AND WILL BE ACCEPTABLE FOR PROPER GROWTH OF THE PROPOSED PLANT MATERIALS PER SPECIFICATIONS. THIS SHALL BE INCLUDED IN THE BASE BID AND BE NO CAUSE FOR ADDITIONAL COST TO THE OWNER.
10. THE CONTRACTOR SHALL GRADE AND OTHERWISE RESTORE ALL DISTURBED AREAS TO A CONDITION READY FOR SEEDING AND SODDING, TOPSOIL IS TO BE PLACED OVER ALL DISTURBED AREAS. PLACE TOPSOIL TO BRING PROPOSED GRADES BACK TO EXISTING CONDITION. GRADE TOLERANCES IN NON-PAVED AREAS FOR THIS PROJECT IS 0.10 FEET.
11. THE ENGINEER AND THE OWNER SHALL APPROVE ALL FINAL GRADES AND CONDITION OF SITE PRIOR TO SEEDING AND SODDING OPERATIONS. FINISH TURF (SEED AND SOD) TO BE FLUSH WITH ADJOINING PAVEMENT SURFACES.
12. WRITTEN DIMENSIONS SHALL PREVAIL OVER SCALED DIMENSIONS.
13. UTILITY SERVICE LINES, POLES, VALVE BOXES, METERS, ETC. MUST BE ADJUSTED AS NECESSARY, BY EACH RESPECTIVE UTILITY OWNER, PRIOR TO CONSTRUCTION, UNLESS THE PLANS SPECIFICALLY CALL FOR THEIR ADJUSTMENT BY THE CONTRACTOR. THE CONTRACTOR WILL BE REQUIRED TO WORK AROUND EXISTING UTILITIES WITHIN THE RIGHT-OF-WAY WHICH DO NOT CONFLICT WITH PROPOSED CONSTRUCTION.
14. THE INFORMATION SHOWN IN THESE PLANS CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. EXISTING UTILITIES AND THEIR LOCATIONS, AS SHOWN ON THE PLANS, REPRESENT THE BEST INFORMATION OBTAINABLE FOR DESIGN. THE CONTRACTOR IS RESPONSIBLE FOR MAKING HIS OWN DETERMINATIONS AS TO THE TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY, TO AVOID DAMAGE THERETO. THE CONTRACTOR MUST NOTIFY ALL UTILITIES 48 HOURS PRIOR TO ANY EXCAVATION.
15. NEW AND EXISTING INLET AND MANHOLE COVERS SHALL BE ADJUSTED TO THE SAME SLOPE AS ADJACENT SURFACES.
16. BORROW AREAS PROVIDED BY THE CONTRACTOR SHALL BE APPROVED BY THE ENGINEER AS TO SUITABILITY OF MATERIAL AND LOCATION. SPECIAL CARE SHALL BE TAKEN IN THIS APPROVAL TO MINIMIZE THE INCREASE OF SILTATION AND TURBIDITY OF STREAMS, LAKES AND RESERVOIRS AND TO AVOID INTERFERENCE WITH THE MOVEMENT OF MIGRATORY FISH. AREAS WHICH, IN THE OPINION OF THE ENGINEER, MAY LEAVE AN UNSIGHTLY APPEARANCE TO THE PROJECT WILL NOT BE APPROVED. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RESTORE, SEED AND/OR COMPLETE OTHER OPERATIONS NOTED IN THE AGREEMENT WITH THE OWNER, APPROVED BY THE ENGINEER, ON ALL DISTURBED AREAS.
17. ALL PAVEMENT AND SIDEWALKS TO BE REMOVED SHALL BE SAW CUT. ANY PAVEMENT OR SIDEWALKS DAMAGED BEYOND THE ORIGINAL SAW CUT LIMITS (AS SHOWN ON THE PLAN OR DETERMINED IN THE FIELD) SHALL BE RE-SAWED TO PROVIDE AN EVEN JOINT AND REPLACED AT THE CONTRACTOR'S EXPENSE.
18. PAVEMENT AND SIDEWALK REMOVAL LIMITS SHOWN ARE APPROXIMATE AND MAY BE CHANGED DUE TO GRADE CONSIDERATIONS OR OTHER FIELD CONDITIONS, AS APPROVED BY ENGINEER.
19. ALL SAW CUTS SHALL BE FULL DEPTH.
20. CONTRACTOR SHALL MAINTAIN CONSTRUCTION LIMITS WITHIN THE EXISTING AND/OR PROPOSED RIGHT-OF-WAYS AND EASEMENTS.
21. CONTRACTOR SHALL BE RESPONSIBLE FOR DIVERTING STORM SEWER RUNOFF INTO THE PROPOSED STORM SEWER SYSTEM DURING CONSTRUCTION. TEMPORARY CONNECTIONS SHALL BE MADE, AS APPROVED BY ENGINEER, TO ELIMINATE FLOODING AND PONDING PRIOR TO COMPLETION OF THE PROPOSED STORM SEWER.
22. ALL TOPS FOR PRECAST CURB INLETS CAN BE PRECAST OR CAST IN PLACE. IF INLET TOPS ARE CAST IN PLACE, THE PRECAST INLET WALL STEEL SHALL BE LEFT EXPOSED TO A HEIGHT 2" BELOW THE FINISH TOP ELEVATION. ALL STRUCTURE TOPS MUST MATCH ADJACENT GRADES. ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THIS WORK SHALL BE INCLUDED IN THE BID.
23. UNTREATED COMPACTED AGGREGATE (APWA) OR MoDOT TYPE 5 AGGREGATE COMPACTED TO 95% STD. MAX. DENSITY SHALL BE USED TO BACKFILL ALL TRENCHES LOCATED WITHIN 2 FEET OF PAVEMENT, CURB AND GUTTER, AND SIDEWALK. IN AN INSTANCE WHERE A PROPOSED UTILITY IS ABOVE THE EXISTING GROUND LINE OR HAS LESS THAN 3 FEET OF COVER OVER THE PROPOSED UTILITY, THE CONTRACTOR SHALL PLACE AND COMPACT THE FUTURE FILL TO A POINT AT LEAST 3 FEET ABOVE THE TOP OF THE PROPOSED UTILITY. ONCE THIS LEVEL IS REACHED, THE CONTRACTOR MAY TRENCH IN THE UTILITY AND BACKFILL PRIOR TO PROCEEDING WITH THE REMAINING EARTHEN COMPACTED EMBANKMENT FILL.
24. ALL STORM SEWERS AND WATER LINES UNDER THE PAVEMENT SHALL BE BACKFILLED WITH FLOWABLE FILL IN ACCORDANCE WITH THE DETAILS SHOWN ON PLANS.
25. LABOR, TOOLS, MATERIALS, AND EQUIPMENT REQUIRED TO TEMPORARILY PLUG OR BLOCK THE END OF PROPOSED STORM SEWER PIPE TO PREVENT BACKFILL MATERIAL FROM ENTERING SHALL BE SUBSIDIARY TO BID ITEM 15" STORM.
26. ALL DISTURBED AREAS THAT ARE TO BE SEEDED OR PLANTED SHALL BE MULCHED IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
27. FOR SIDEWALKS, ALL EXPOSED EDGES AND JOINT EDGES SHALL BE ROUNDED WITH AN EDGING TOOL HAVING A RADIUS OF 3/8 INCH. UNLESS APPROVED BY THE ENGINEER, ALL JOINTS SHALL BE FORMED BY MAKING A 1/4- INCH GROOVE 2 INCHES DEEP WHILE THE CONCRETE IS STILL PLASTIC ENOUGH TO BE WORKED BUT HARD ENOUGH SO IT WILL NOT SLUMP AFTER GROOVING.
28. ALL CONCRETE MATERIALS SHALL CONFORM TO THE SPECIFICATIONS OF THE KANSAS CITY METROPOLITAN MATERIALS BOARD (KCMMB). COARSE AGGREGATES FOR ALL MIXES SHALL BE ENTIRELY GRANITE OR QUARTZITE.
29. SPRINKLER HEADS AFFECTED BY CONSTRUCTION SHALL BE CAPPED FOR THE DURATION OF CONSTRUCTION AND THE HEADS REPLACED AT THE COMPLETION OF CONSTRUCTION. ANY SPRINKLER APPURTENANCES OR LINES DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AND SHALL BE SUBSIDIARY TO THE BID ITEM SOD.

GENERAL WATER NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MOST RECENT VERSION OF THE STANDARDS AND SPECIFICATIONS FOR WATER MAIN EXTENSIONS AND RELOCATIONS OF THE MARYVILLE, MISSOURI WATER SERVICES DEPARTMENT.

2. CONTRACTOR SHALL POTHOLE AND EXPOSE ALL TIE-IN AND CROSSING LOCATIONS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL FITTINGS REQUIRED TO PROVIDE PROPER HORIZONTAL AND VERTICAL ALIGNMENT FOR NEW WATER MAINS, CONNECTIONS TO EXISTING WATER MAINS AND INSTALLATION OF FIRE HYDRANTS AT THE PROPER LOCATION AND ELEVATION, WHETHER OR NOT THE PROPER FITTINGS, LOCATION OR ELEVATIONS ARE CALLED OUT ON THE DRAWINGS, INCLUDING MODIFICATION OF EXISTING INFRASTRUCTURE REQUIRED TO MAKE ALL OF THE WORK CONFORM TO THE CURRENT STANDARDS AND SPECIFICATIONS FOR WATER MAIN EXTENSIONS AND RELOCATIONS OF THE MARYVILLE, MISSOURI WATER SERVICES DEPARTMENT.

3. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL TEMPORARY BLOW-OFF ASSEMBLIES, FITTINGS, THRUST BLOCKING, AND RESTRAINING DEVICES REQUIRED FOR TEMPORARY CONNECTIONS FOR FLUSHING, PRESSURE TESTING, CHLORINATION, AND DE-CHLORINATION OF THE NEW WATER MAINS. PRIOR TO PLACING NEW MAINS IN SERVICE THE CONTRACTOR SHALL REMOVE ANY CORPORATION COCKS USED FOR TESTING OR CHLORINATION AND REPLACE THEM WITH TAPERED BRASS PLUGS.

4. SCHEDULING OF WATER MAIN SHUTS AND CONNECTION TO EXISTING MAINS SHALL BE AT THE DISCRETION OF THE CITY OF MARYVILLE.

5. ALL FIRE HYDRANT BRANCHES SHALL BE RESTRAINED USING APPROVED RESTRAINING DEVICES. HYDRANTS SHALL BE INSTALLED SO THAT THE CENTERLINE OF THE OUTLET NOZZLE IS BETWEEN EIGHTEEN AND TWENTY-ONE INCHES (18" - 21") ABOVE FINISHED GRADE, AND SO THAT THERE IS A MINIMUM CLEAR AREA OF 5' IN EACH DIRECTION TO ALLOW OPERATION OF THE HYDRANT.

6. THE LOCATIONS OF EXISTING UTILITIES, AS SHOWN, ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE LOCATIONS AND ELEVATIONS OF ALL EXISTING UTILITIES. CONTRACTORS SHALL POTHOLE AND EXPOSE ALL UTILITIES (INDICATED ON THE DRAWINGS, LOCATED AT GRADE BY A UTILITY LOCATING SERVICE, OR EVIDENT FROM UTILITY COMPANY INFORMATION) AT LEAST 500 FEET IN ADVANCE OF WATER MAIN CONSTRUCTION, DETERMINING THE DEPTH, SIZE, AND MATERIAL OF THE UTILITIES IN PROXIMITY TO THE PROPOSED WATER MAIN ALIGNMENT. CONTRACTOR SHALL PROVIDE THIS INFORMATION TO THE ENGINEER & ADVISE OF ANY POTENTIAL CONFLICTS WITH THE PROPOSED PIPELINE ALIGNMENT. DEFLECT PIPE TO MAINTAIN MINIMUM 5 FEET HORIZONTAL AND 18 INCH VERTICAL CLEARANCES BETWEEN PROPOSED WATER MAIN AND ALL EXISTING UTILITIES.

7. THE CONTRACTOR SHALL COMPLY WITH STATE LAW REQUIRING ANY PERSON OR FIRM DOING EXCAVATION ON THE PUBLIC RIGHT-OF-WAY DO SO ONLY AFTER GIVING NOTICE TO AND OBTAINING INFORMATION FROM UTILITY COMPANIES.

8. STREETS AND PARKING AREAS ARE TO BE TO GRADED AND CURBS IN PLACE PRIOR TO CONSTRUCTION OF WATER MAINS. WATER MAINS SHALL BE INSTALLED WITH A MINIMUM GROUND COVER OF 42 INCHES BELOW FINISHED GRADE. SIXTEEN (16)-INCH AND LARGER WATER MAINS SHALL BE INSTALLED WITH A MINIMUM GROUND COVER OF 60 INCHES BELOW FINISHED GRADE.

9. WATER MAINS SHALL BE LAID AT LEAST 10 FEET, HORIZONTALLY FROM ANY SEWER. WHEN LOCAL CONDITIONS PREVENT A HORIZONTAL SEPARATION OF 10 FEET, A WATER MAIN MAY BE LAID CLOSER THAN 10 FEET TO A SEWER, PROVIDED THAT THE WATER MAIN IS LAID IN A SEPARATE TRENCH, OR ON AN UNDISTURBED EARTH SHELF LOCATED ON ONE SIDE OF THE SEWER, AT SUCH AN ELEVATION THAT THE BOTTOM OF THE WATER MAIN IS AT LEAST 18 INCHES ABOVE THE TOP OF THE SEWER. WATER MAINS SHALL BE LAID SUCH THAT THERE IS A MINIMUM OF 18 INCHES CLEARANCE BETWEEN THE PIPE WALL AND THE EXTERIOR OF ANY MANHOLE AND/OR INLET ON THE SEWER LINE.

   WHENEVER A WATER MAIN MUST CROSS ABOVE A SEWER, A VERTICAL SEPARATION OF 18 INCHES BETWEEN THE BOTTOM OF THE WATER MAIN AND THE TOP OF THE SEWER SHALL BE MAINTAINED. A FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ON THE SEWER TO BE CROSSED SO THAT THE JOINTS WILL BE EQUALLY DISTANT FROM THE SEWER AND AS FAR AWAY AS POSSIBLE. THE 18-INCH VERTICAL SEPARATION SHALL BE MAINTAINED FOR THAT PORTION OF THE WATER MAIN LOCATED WITHIN 10 FEET, HORIZONTALLY, OF ANY SEWER IT CROSSES.

   WHEN IT IS IMPOSSIBLE TO OBTAIN PROPER HORIZONTAL SEPARATION AS STIPULATED ABOVE, OR WHEN A WATER MAIN MUST CROSS UNDER A SEWER, THE SEWER MUST BE RECONSTRUCTED OF DUCTILE IRON PIPE, PRE-STRESSED CONCRETE CYLINDER PIPE, OR PVC PRESSURE PIPE CONFORMING TO CITY STANDARDS & SPECIFICATIONS. ALL SHALL BE PRESSURE TESTED TO ASSURE WATER TIGHTNESS BEFORE BACKFILLING. THE REQUIRED LENGTH OF SEWER TO BE REPLACED OR CONSTRUCTED OF PRESSURE PIPE WILL BE THE LENGTH NECESSARY TO ACHIEVE 10 FEET HORIZONTAL SEPARATION.

10. ALL WORK SHALL CONFORM TO THE LATEST REVISION OF THE MARYVILLE, MISSOURI EROSION AND SEDIMENT CONTROL SPECIFICATIONS.

11. THE END OF ALL ABANDONED WATER MAINS SHALL BE PLUGGED WITH CONCRETE.

12. COVERS, LIDS, AND STANDPIPES ON ALL ABANDONED VALVES SHALL BE REMOVED TO AT LEAST TWO FEET (2') BELOW GRADE AND THE AREA SHALL BE PROPERLY BACKFILLED. IN PAVED AREAS REMOVAL OF VALVE LID AND FILLING OF VALVE BOX WITH CONCRETE MAY BE ALLOWED.

13. EXISTING FIRE HYDRANTS THAT ARE REMOVED SHALL BE RETURNED TO THE CITY OF MARYVILLE.

14. WATER SERVICE LINES CONNECTED TO MAINS BEING ABANDONED SHALL BE RECONNECTED TO NEW MAINS, UNLESS SHOWN OTHERWISE. EXISTING WATER SERVICE LINES BEING TRANSFERRED TO NEW MAINS WILL BE UPGRADED TO MEET CURRENT REGULATIONS.

15. THE CONTRACTOR SHALL VERIFY THE OUTSIDE DIAMETER (O.D.) OF THE EXISTING WATER MAIN PRIOR TO SCHEDULING CONNECTION. PROVIDE SOLID SLEEVES AS REQUIRED.

16. CONTRACTORS SHALL PROTECT EXISTING POWER POLES AND LIGHT POLES FROM DAMAGE AND SHALL PROVIDE BRACING, SHORING, OR OTHER WORK NECESSARY FOR SUCH PROTECTION. ANY STRUCTURES REMOVED DURING CONSTRUCTION OPERATIONS SHALL BE REPLACED.

ADD-3

GENERAL SEQUENCE OF WORK BY THE CONTRACTOR (UNLESS NOTED OTHERWISE):

1. CONTRACTOR SHALL DIVIDE THE CONSTRUCTION INTO MANAGEABLE SECTIONS FOR UTILITIES, BASE CONSTRUCTION, AND PAVING OPERATIONS TO MINIMIZE DISRUPTIONS OF TRAFFIC.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PROPERTIES AT ALL TIMES.
3. SUBMIT DETAILED SCHEDULE, CONSTRUCTION PHASING, AND TRAFFIC CONTROL PLANS FOR APPROVAL BY OWNER AND ENGINEER.
4. PERFORM SURVEY AND STAKING OF IMPROVEMENTS
5. INSTALL EROSION CONTROL MEASURES
6. COORDINATE RELOCATION OF ALL UTILITIES WITH THE UTILITY COMPANIES.
7. ESTABLISH THE ALIGNMENT OF THE POWER LINE CONDUITS AND EQUIPMENT PAD LOCATIONS WITH EVERGY. COORDINATE CONDUIT ALIGNMENT AND LOCATION OF PADS WITH OTHER IMPROVEMENTS
8. STAKE ALL PROPOSED STORM AND WATERLINE CROSSINGS AND MONUMENT SIGN LOCATIONS AT THE POWER CONDUITS TO AVOID CONFLICTS
9. INSTALL POWER CONDUITS WITH TRACE WIRE, AND SURVEY AS BUILT ALIGNMENT OF THE CONDUITS AT 25' ON CENTER AND AT PROPOSED UTILITY CROSSINGS.
10. INSTALL POWER EQUIPMENT PADS.
11. EVERGY TO INSTALL NEW EQUIPMENT AND CONDUCTORS, AND ENERGIZE SYSTEM.
12. COORDINATE GAS AND TELECOM RELOCATIONS WITH THE GAS AND TELECOM COMPANIES AND ESTABLISH ROUTING.
13. STAKE ALIGNMENT OF GAS AND TELECOM LINES AND IDENTIFY PROPOSED UTILITY CROSSING DEPTHS FOR THE GAS AND TELECOM COMPANIES TO AVOID CONFLICTS.
14. GAS AND TELECOM COMPANIES TO PERFORM THEIR RELOCATIONS
15. DEMOLITION OF EXISTING POWER SYSTEM AND OVERHEAD LINES.
16. PERFORM GENERAL DEMOLITION AND GRADING ACCORDING TO THE APPROVED SCHEDULE.
17. INSTALL NEW STORM SYSTEM ACCORDING TO THE APPROVED SCHEDULE AND MAINTAIN ACCESS TO ALL PROPERTIES.
18. INSTALL WATERLINES
19. INSTALL RETAINING WALLS.
20. INSTALL BASE AGGREGATE AND PAVEMENT CONCRETE BASE IN SECTIONS WHERE THE ROAD IS BEING WIDENED ACCORDING TO THE APPROVED SCHEDULE.
21. MILL PAVEMENT ACCORDING TO THE APPROVED SCHEDULE.
22. INSTALL ASPHALT PAVING AT NIGHTS AND MAINTAIN ONE LANE OF TRAFFIC OPEN IN EACH DIRECTION ON S. MAIN AND PROVIDE ACCESS TO ALL PROPERTIES.
23. PROVIDE WEDGE ASPHALT AS NECESSARY AT CHANGES IN GRADE FOR MAINTENANCE OF ACCESS. WEDGE ASPHALT WILL BE PAID AT THE UNIT PRICE FOR TEMPORARY PAVING.
24. LIGHTING INSTALLATION
25. SIGNALS (MAY BE INSTALLED AT ANY TIME THAT DOES NOT AFFECT OTHER WORK)
26. PAVEMENT MARKINGS AND REGULATORY SIGNS
27. LANDSCAPING, IRRIGATION, AND MONUMENT SIGNS
28. WORK THAT DOES NOT AFFECT ACCESS OR THE APPROVED SCHEDULE MAY BE PERFORMED CONCURRENTLY WITH OTHER ITEMS OF WORK.
29. PROPOSED MODIFICATIONS TO THE GENERAL SEQUENCE OF WORK SHALL BE SUBMITTED FOR APPROVAL.

GENERAL UTILITY CONSTRUCTION NOTES

1. CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
2. CONTRACTOR'S SCHEDULE SHALL INCLUDE ALL CONSTRUCTION BY THE CONTRACTOR AND THE UTILITY COMPANIES.
3. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ALL UTILITY RELOCATIONS.
4. CONTRACTOR IS RESPONSIBLE FOR MAINTAINING UTILITY SERVICE TO ALL PROPERTIES AND SHALL COORDINATE UTILITY SHUT OFFS WITH PROPERTY OWNERS.
5. CONTRACTOR SHALL FOLLOW THE GENERAL SEQUENCE OF WORK STATED HEREIN UNLESS APPROVED BY THE ENGINEER.
6. CONCURRENT ACTIVITIES MAY BE PERFORMED IF THEY ARE COORDINATED AND DO NOT AFFECT THE OVERALL SEQUENCE OF WORK.
7. THE DEPTH OF THE PROPOSED STORM SEWERS GOVERNS OVER THE DEPTH OF OTHER UTILITIES AND SHALL BE CONSTRUCTED PER PLAN, UNLESS APPROVED BY THE ENGINEER. ALL OTHER UTILITIES MUST GO OVER OR UNDER THE PROPOSED STORM SEWER LINES. WHEN OTHER UTILITIES ARE CONSTRUCTED PRIOR TO STORM SEWERS, THE CONTRACTOR SHALL COORDINATE THE DEPTH OF THE UTILITY WITH THE STORM PROFILE TO AVOID CONFLICTS.
8. CONTRACTOR SHALL INSTALL THE POWER CONDUITS AND EQUIPMENT PADS WHERE SHOWN ON SHEETS C09.51 THROUGH C09.56. THE EQUIPMENT LOCATIONS AND ROUTING SHOWN ARE BY EVERGY AND ARE DIAGRAMMATIC. CONTRACTOR SHALL COORDINATE CONDUIT ROUTING AND EQUIPMENT PLACEMENT WITH EXISTING AND PROPOSED IMPROVEMENTS. COORDINATE ALL WORK WITH EVERGY. ADD-3
9. CONTRACTOR SHALL COORDINATE THE ELEVATION OF THE EQUIPMENT PADS WITH THE PROPOSED GRADES AND SHALL INSTALL PADS PER EVERGY STANDARD DETAILS, WHERE SHOWN.
10. CONTRACTOR SHALL COORDINATE THE RELOCATION OF THE GAS AND TELECOM LINES WITH THE GAS AND TELECOM COMPANIES AND IDENTIFY THE ROUTING FOR THEIR LINES.
11. CONTRACTOR SHALL STAKE THE PROPOSED GAS AND TELECOM ROUTES, THE LOCATION OF THE PROPOSED STORM SEWER CROSSINGS, THE TOP AND BOTTOM OF THE STORM PIPE, AND THE PROPOSED GRADE, AT THE CROSSING TO ENSURE THAT STORM CROSSINGS AND FINISH GRADES ARE TAKEN INTO ACCOUNT IN THE PROFILE OF THE RELOCATED GAS AND TELECOM LINES. A MINIMUM OF 18" OF SEPARATION SHALL BE PROVIDED BETWEEN THE STORM PIPE AND THE PROPOSED GAS AND TELECOM LINES, TO ALLOW CONSTRUCTION OF THE STORM LINE WITHOUT CONFLICT WITH THE GAS AND TELECOM LINES.
12. CONTRACTOR SHALL COORDINATE THE DEPTH OF THE GAS LINE AND TELECOM LINES WHERE EXISTING GRADE IS BEING CUT AND STAKE THOSE AREAS TO ENSURE THAT THE GAS AND TELECOM LINES ARE INSTALLED BELOW PROPOSED GRADES AND AVOID STORM LINES.
13. CONTRACTOR SHALL COORDINATE THE LOCATION AND ELEVATION OF ALL EQUIPMENT PADS, VAULTS, HANDHOLES, RISERS, ETC. THAT ARE INSTALLED BY THE CONTRACTOR OR THE UTILITY COMPANIES, WITH THE PROPOSED IMPROVEMENTS TO ENSURE THAT PROPOSED LOCATION DOES NOT CONFLICT WITH THE SIDEWALKS, CURBS AND OTHER UTILITIES, AND ARE SET AT THE PROPER GRADE.
14. DIRECTIONAL BORING IS ENCOURAGED WHERE APPROPRIATE TO INSTALL THE GAS, TELECOM, AND POWER LINES WHERE POSSIBLE AND ALLOWED BY THE UTILITY COMPANY. VERTICAL PROFILE MUST AVOID THE PROPOSED STORM SEWER AND WATER LINE PROFILES
15. CONTRACTOR SHALL COORDINATE THE TIMING OF POWER LINE AND POWER EQUIPMENT INSTALLATION WITH EVERGY.
16. STORM SEWERS AND WATERLINES SHALL BE CONSTRUCTED AS DETAILED. ALL STORM SEWERS AND WATERLINE TRENCHES UNDER THE PAVING SHALL BE BACKFILLED WITH FLOWABLE FILL.

MAINTENANCE OF TRAFFIC NOTES

1. CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN FOR APPROVAL PRIOR TO START OF CONSTRUCTION.
2. IT IS THE INTENT OF THE CITY TO MAINTAIN THREE LANES OF TRAFFIC ON SOUTH MAIN FOR AS LONG AS POSSIBLE BY SECTIONING OFF THE WORK INTO MANAGEABLE SECTIONS TO MINIMIZE DISRUPTION OF TRAFFIC. THE THREE LANES CONSIST OF ONE THROUGH LANE IN EACH DIRECTION AND ONE TURN LANE. IT IS UNDERSTOOD THAT ONLY ONE LANE OF TRAFFIC MAY BE MAINTAINED IN EACH DIRECTION FOR CERTAIN SECTIONS OF WORK TO ALLOW CONSTRUCTION ON ONE SIDE OF ROAD.
3. TEMPORARY ASPHALT PAVEMENT SHALL BE USED TO MAINTAIN THREE LANES WHERE NO WORK IS BEING PERFORMED. PROPER TAPER SHALL BE PROVIDED PER MUTCD WHERE THE THREE LANES TRANSITION TO TWO LANES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUSINESSES ALONG THE PROJECT, AT ALL TIMES.
5. ALTERNATIVE TEMPORARY ACCESS POINTS APPROVED BY INDIVIDUAL PROPERTY OWNERS MAY BE ACCEPTABLE, PROVIDED THAT PROPER SIGNAGE IS INSTALLED TO THE SATISFACTION OF THE PROPERTY OWNER.
6. CONTRACTOR'S DETAILED PHASING AND TRAFFIC CONTROL PLAN SHALL IDENTIFY HOW ACCESS IS MAINTAINED TO EACH BUSINESS DURING ALL PHASES OF CONSTRUCTION.
7. WHERE UTILITIES CROSS THE MAIN TRAVEL WAY, CONTRACTOR SHALL PROVIDE TEMPORARY ASPHALT PAVING AS NECESSARY TO MAINTAIN ONE LANE OF TRAFFIC OPEN IN EACH DIRECTION, AT ALL TIMES.
8. MILLING AND ASPHALT PAVING SHALL BE PERFORMED AT NIGHTS TO MINIMIZE TRAFFIC DISRUPTIONS AND ACCESS TO THE PROPERTIES AFFECTED.
9. CONTRACTOR MAY PERFORM OTHER ITEMS OF WORK AT NIGHT WHEN NECESSARY TO MEET HIS SCHEDULE AND TO ALLOW MAINTENANCE OF TRAFFIC.
10. NIGHTTIME WORK SHALL BE SUBSIDIARY TO OTHER WORK ITEMS
11. CONTRACTOR SHALL INSTALL STEEL PLATES OVER THE UTILITY TRENCHES AS APPROPRIATE TO ALLOW MAINTENANCE OF TRAFFIC. STEEL PLATE IS SUBSIDIARY TO TRAFFIC CONTROL.
12. ALL EXISTING PAVEMENT MARKINGS IN CONFLICT WITH THE PROPOSED TEMPORARY TRAFFIC CONTROL PAVEMENT MARKINGS SHALL BE REMOVED.

ADD-3

SURVEY LEGEND

▲ = CONTROL MONUMENT
⊟ = ELECTRIC BOX
◇ = TELEPHONE PEDESTAL
⊥ = GUY WIRE
◐ = BENCHMARK
♉ = FIRE HYDRANT
⊤ = SIGN
⊕ = SANITARY CLEANOUT
⌀ = POWER POLE
✲ = BOLLARD
⬠ = MAILBOX
◉ = LIGHT POLE
(MW) = MONITORING WELL
☁ = BUSH
☁ = TREE
○ = MANHOLE
Ⓖ = GAS METER
Ⓔ = ELECTRIC METER
Ⓦ = WATER METER
⋈ = GAS VALVE
⧓ = WATER VALVE
X XX = TRAFFIC SIGNAL

C.M.P. = CORRUGATED METAL PIPE
R.C.P. = REINFORCED CONCRETE PIPE
P.V.C. = POLYVINYL CHLORIDE FLEX
H.D.P.E. = CORRUGATED PLASTIC PIPE
F/L = FLOW LINE
—— W —— = WATERLINE
—— SS —— = SANITARY SEWER LINE
—— ST —— = STORM LINE
—— OE —— = OVERHEAD ELECTRIC LINE
—— UE —— = UNDERGROUND ELECTRIC LINE
—— FO —— = FIBER OPTIC LINE
—— G —— = GAS LINE
—— UT —— = UNDERGROUND TELEPHONE LINE
—— OHT —— = OVERHEAD TELEPHONE LINE
— \\ —— \\ — = METAL FENCE
—□——□— = WOOD FENCE
▭ = CONCRETE
▨ = ASPHALT
▩ = GRAVEL

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REV. NO.	DATE	DESCRIPTION
ADD-3	2021-03-05	ADDENDUM #3

JOHN D. CHAMBERLAIN
2-9-21

SK Project No. 16-108
Design: JS
Checked: JC

South Main Corridor Improvement Project
STP-4300 (112)
City of Maryville, Missouri

Issued for: Construction
Date: 2021-02-08

GENERAL NOTES

C00.51

U:\2016\16-108\2021-02-08 Bid Set\C00.51-C00.52- General Notes and Quantities.dwg Plotted: Mar 05, 2021 – 1:21pm by snader

SUMMARY OF QUANTITIES

BASE BID

Line	Item Description:	Unit	Quantity
1	Mobilization	Lump Sum	1.0
2	Temporary Traffic Control	Lump Sum	1.0
3	Temporary Erosion Control	Lump Sum	1.0
4	Clearing and grubbing	Lump Sum	1.0
5	General Demolition	Lump Sum	1.0
6	Remove existing tree	Each	4.0
7	Remove existing asphaltic pavement	SY	16370.0
8	Remove existing concrete pavement	SY	10214.0
9	Remove existing sidewalk	SY	241.0
10	Remove existing gravel	SY	5030.0
11	Remove existing curb and gutter	LF	9353.0
12	Remove existing wall	LF	154.0
13	Remove existing water line	LF	7657.0
14	Abandon existing water line in place and fill with slurry	LF	1530.0
15	Remove existing storm line	LF	4201.0
16	Abandon existing storm line in place and fill with slurry	LF	1718.0
17	Earthwork	Lump sum	1.0
18.1	15" Dia. RCP Class III Pipe	LF	994.0
18.2	18" Dia. RCP Class III Pipe	LF	150.0
18.3	24" Dia. RCP Class III Pipe	LF	148.0
18.4	30" Dia. RCP Class III Pipe	LF	43.0
18.5	36" Dia. RCP Class III Pipe	LF	394.0
18.6	42" Dia. RCP Class III Pipe	LF	46.0
18.7	48" Dia. RCP Class III Pipe	LF	54.0
18.8	54" Dia. RCP Class III Pipe	LF	323.0
18.9	60" Dia. RCP Pipe	LF	58.0
19.1	54" RCP End Section	Each	1.0
19.2	60" RCP End Section	Each	2.0
20	7'x5' RCB Pipe ADD-3	LF	61.0
21	57"x38" ARCH Polymer-Coated Pipe	LF	28.0
22.1	15" Dia. Polymer Coated CMP Pipe	LF	1755.0 ADD-3
22.2	18" Dia. Polymer Coated CMP Pipe	LF	1228.0
22.3	24" Dia. Polymer Coated CMP Pipe	LF	1537.0
22.4	30" Dia. Polymer Coated CMP Pipe	LF	503.0
22.5	36" Dia. Polymer Coated CMP Pipe	LF	1206.0
22.6	42" Dia. Polymer Coated CMP Pipe	LF	913.0
22.7	48" Dia. Polymer Coated CMP Pipe	LF	713.0
22.8	60" Dia. Polymer Coated CMP Pipe	LF	130.0
23.1	15" CMP End Section	Each	3.0
23.2	18" CMP End Section	Each	1.0
23.3	24" CMP End Section	Each	1.0
23.4	60" CMP End Section	Each	1.0
24.1	12" Dia. HDPE Pipe	LF	10.0 ADD-3
24.2	15" Dia. HDPE Pipe	LF	41.0
24.3	18" Dia. HDPE Pipe	LF	16.0
25	6" Dia. PVC-SDR-26 Pipe	LF	31.0
26	12" Slotted Drain - ADS Duraslot 1260-DS	LF	1415.0 ADD-3
27	12" Trench Drain - ACO S300K Power Drain	LF	30.0
28.1	5x3 Curb Inlet	Each	43.0
28.2	5x4 Curb Inlet	Each	14.0
28.3	5x5 Curb Inlet	Each	4.0
28.4	5x6 Curb Inlet	Each	2.0
28.5	6x5 Curb Inlet	Each	3.0
28.6	6x6 Curb Inlet	Each	1.0
28.7	8x4 Curb Inlet	Each	6.0
28.8	8x5 Curb Inlet	Each	5.0
28.9	8x6 Curb Inlet	Each	6.0
28.10	8x7 Curb Inlet	Each	1.0
28.11	11x4 Curb Inlet	Each	1.0
29.1	4x4 Grate Inlet	Each	3.0
29.2	5x5 Grate Inlet	Each	1.0
29.3	6x5 Grate Inlet	Each	1.0
29.4	8x6 Grate Inlet	Each	1.0
30.1	4x4 Area Inlet	Each	1.0
30.2	8x7 Area Inlet	Each	1.0
31.1	4x4 Junction Box	Each	4.0
31.2	5x5 Junction Box	Each	4.0
31.3	6x5 Junction Box	Each	1.0
31.4	9x9 Junction Box	Each	1.0
32	2x3 Nyloplast Curb Inlet	Each	2.0
33	24" Dia. Nyloplast Inlet	Each	3.0
34	APWA 18" light blanket rock	CY	16.0
35	APWA 24" light blanket rock	CY	47.0
36.1	12" Dia. PVC C900 Waterline including fittings, gate valves, tees, sleeves, reducers, etc.	LF	6732.0
36.2	10" Dia. PVC C900 Waterline including fittings, gate valves, tees, sleeves, reducers, etc.	LF	226.0
36.3	8" Dia. PVC C900 Waterline including fittings, gate valves, tees, sleeves, reducers, etc.	LF	689.0
36.4	6" Dia. PVC C900 Waterline including fittings, gate valves, tees, sleeves, reducers, etc.	LF	1029.0
36.5	4" Dia. PVC C900 Waterline including fittings, gate valves, tees, sleeves, reducers, etc.	LF	251.0
37.1	5/8" Water Service Line (Type K copper)	Each	1.0
37.2	3/4" Water Service Line (Type K copper)	Each	26.0
37.3	1" Water Service Line (Type K copper)	Each	9.0
37.4	2" Water Service Line (Type K copper)	Each	11.0
38	2" Cold Milling	SY	34200.0
39.1	4" APWA RC Type 1-01 Asphaltic Concrete Base Course with Asphalt Binder PG 64-22 (2 lifts)	TONS	7403.0
39.2	7" APWA RC Type 1-01 Asphaltic Concrete Base Course with Asphalt Binder PG 64-22 (3 lifts)	TONS	1457.0
40	Additional asphaltic concrete base course beyond plan quantities as directed by the engineer	TONS	1110.0
41	2" APWA Type 5-01 Asphaltic Concrete Surface Course with Asphalt Binder PG 64-22	TONS	4713.0
42	Additional asphaltic concrete surface course beyond plan quantities as directed by the engineer	TONS	707.0
43	Temporary 6" thick APWA RC Type 1-01 asphaltic concrete base course for temporary traffic access and control	TONS	1200.0
44.1	6" thick concrete for new pavement full depth base	SY	6613.0
44.2	8" thick concrete for new pavement full depth base	SY	728.0 ADD-3
45	4" thick concrete sidewalk	SY	7220.0
46	APWA untreated compacted aggregate	TONS	13502.0
47	Concrete curb and gutter	LF	25776.0 ADD-3
48	Install ADA Ramp	SY	1549.0
49	Adjust top of existing manhole	Each	10.0
50	Reinforced Concrete Retaining Wall (any height)	SF of face	3130.0
51	Retaining wall railing	LF	316.0
52	Permanent signage	Lump sum	1.0
53	Traffic signalization at South Main Street / South Avenue	Lump sum	1.0
54	Traffic signalization at South Main Street / Walmart Drive	Lump sum	1.0
55	Traffic signalization at South Main Street / Highway "V"/ East South Drive	Lump sum	1.0
56	Traffic signal interconnect between South Avenue and Highway V	Lump sum	1.0
57	Wayfinding monument	Each	5.0
58	Street Lighting	Lump sum	1.0
59	Underground conduits on the primary and secondary side along with equipment bases. Coordinate with Evergy.	Lump sum	1.0
60	New Tree Planting	Lump sum	1.0
61	Erosion control mat	SY	17500.0
62	Hydro-seeding	Acres	11.0
63	Sodding	SY	12558.0
64	Pavement Markings	Lump sum	1.0
65	6" Residential Concrete Driveway	SY	146.0
66	8" Concrete Commercial Entrance	SY	9188.0
67	Fire Hydrant Assembly ADD-3	Each	13.0
68	Relocate Pylon sign	Each	3.0
69	Removal of unsuitable subgrade and replacing with untreated compacted aggregate as directed by the engineer	TONS	2100.0
70	Additional removal of existing pavement beyond plan quantities as directed by the engineer	SY	400.0
71	Additional 6" thick concrete beyond plan quantities as directed by the engineer	SY	200.0 ADD-3
72	New commercial monument sign	Each	2.0
73	Conversion of above ground power service to underground power service	Lump sum	1.0

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JOHN D. CHAMBERLAIN
29484
2-9-21

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STP-4300 (112)
City of Maryville, Missouri

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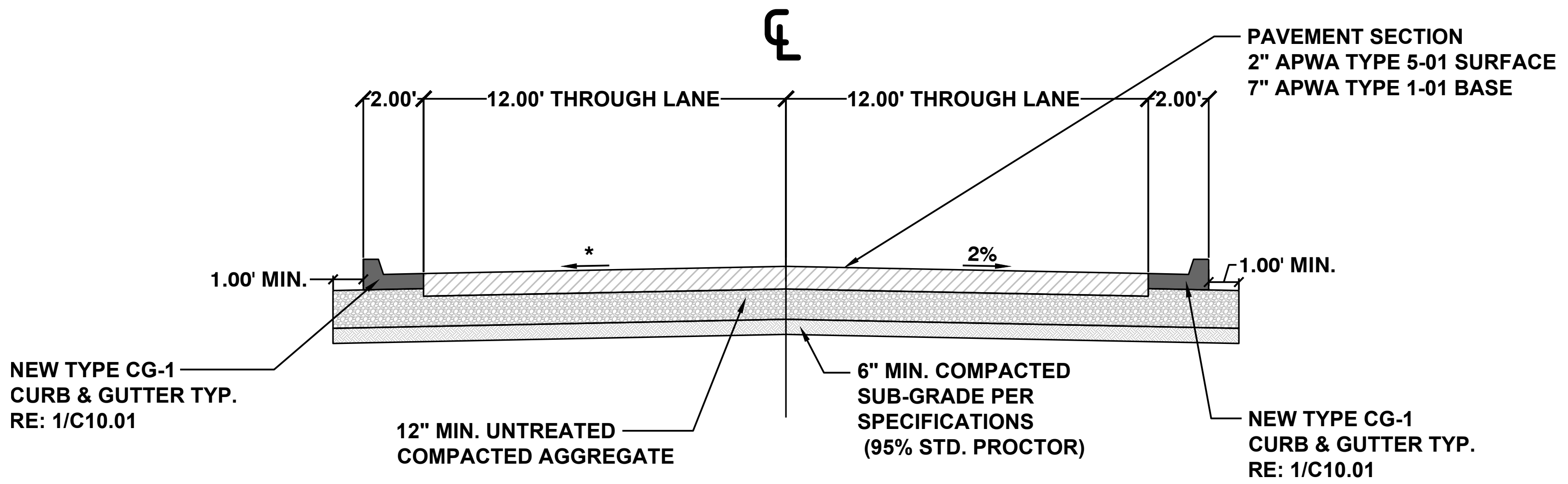
QUANTITIES

C00.52

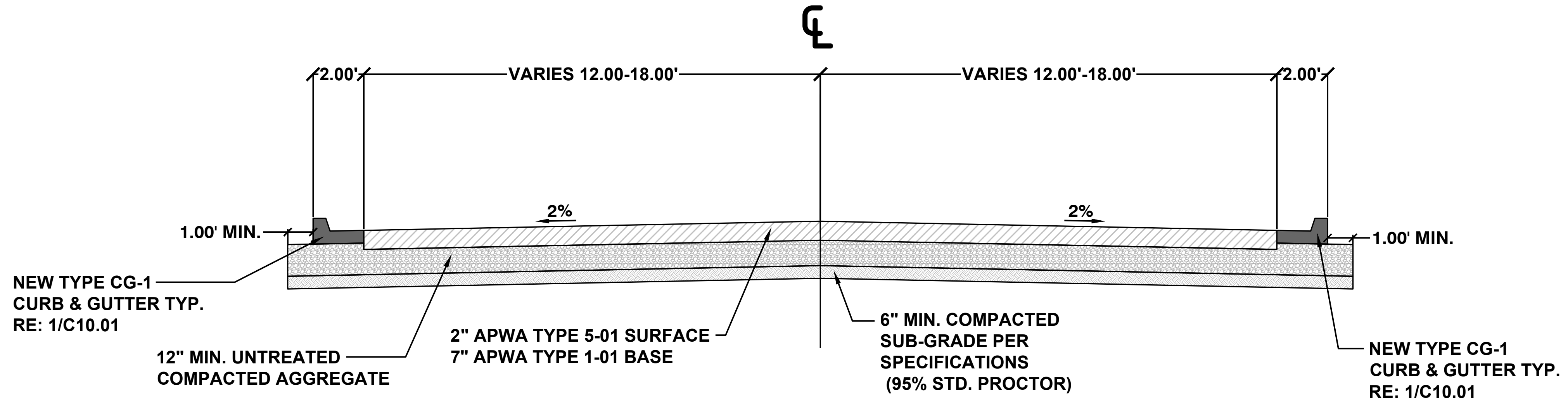


① SOUTH AVENUE WEST
Not to Scale

STA 39+90.00 - 42+31.37 LT

STA 39+90.00 - 41+56.65 RT

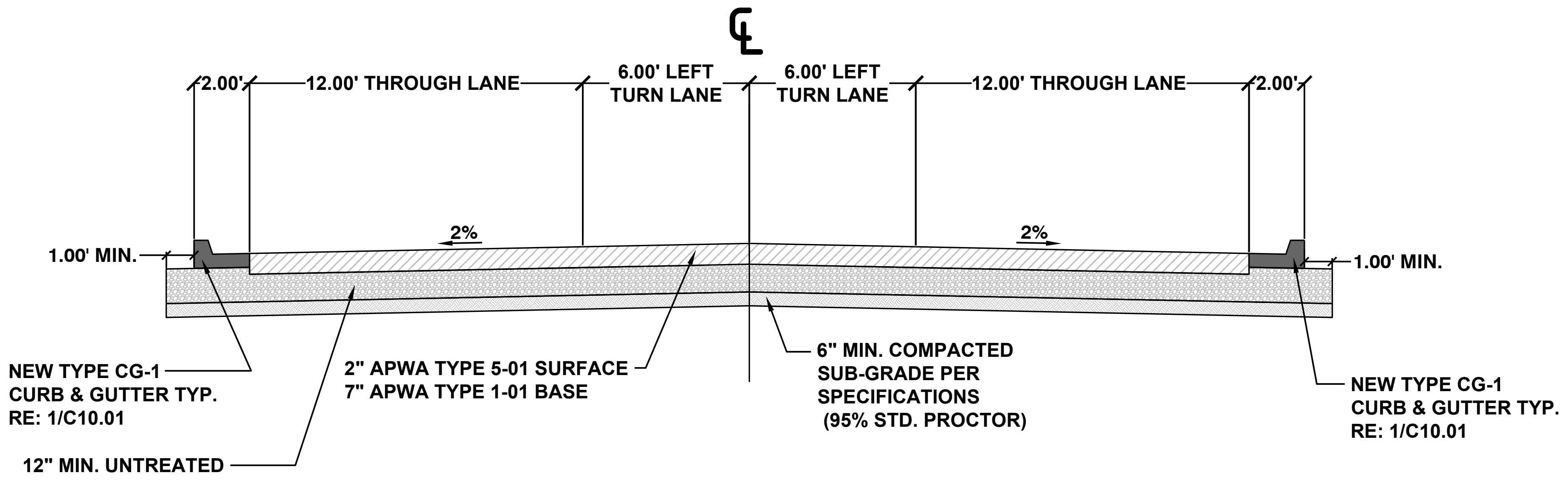
* SEE CROSS SLOPE TABLE THIS SHEET



② SOUTH AVENUE WEST
Not to Scale

STA 42+31.37 - 43+81.32 LT

STA 41+56.65 - 43+06.65 RT



③ SOUTH AVENUE WEST
Not to Scale

STA 43+81.37 - 44+37.52 LT

STA 43+06.65 - 44+37.52 RT

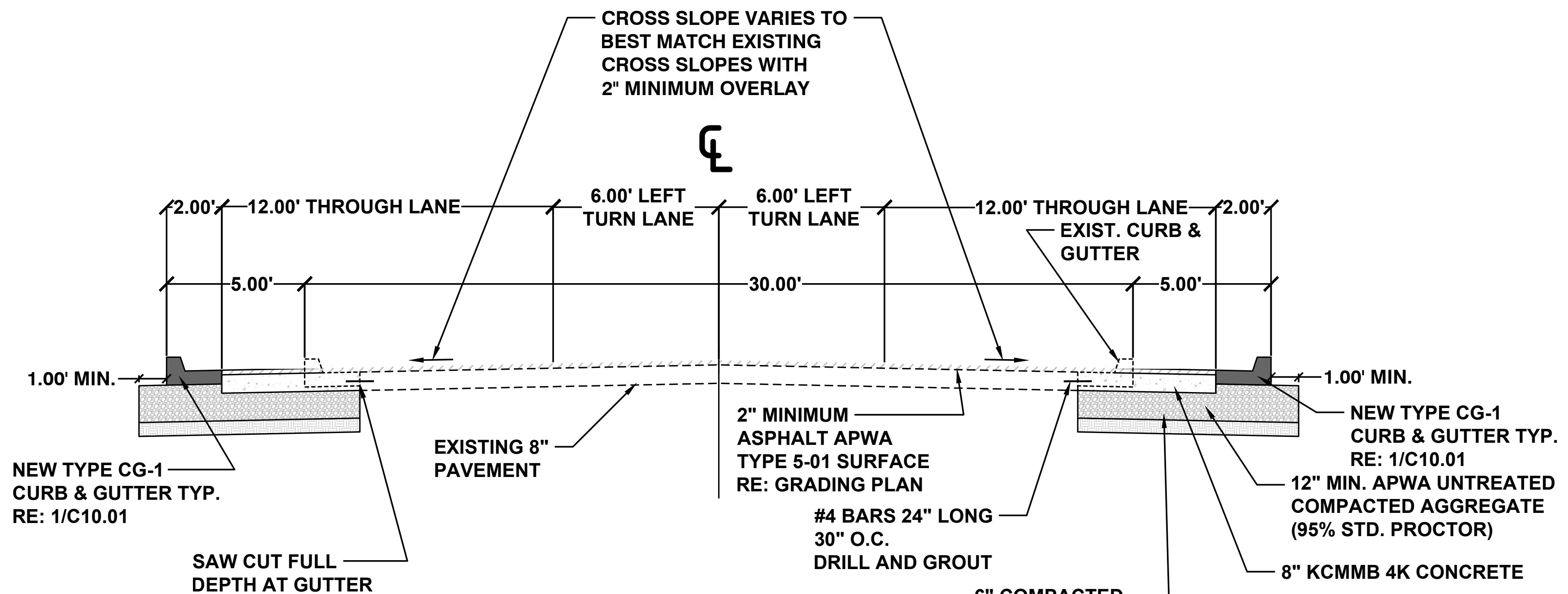
NOTE: SAME SECTION APPLIES TO
STA 44+37.52 TO STA 44+90.05, EXCEPT
THE TOTAL WIDTH VARIES, SEE PLAN.

GENERAL SEQUENCE OF PAVING FOR SOUTH AVENUE EAST:

1. SAW CUT AND REMOVE EXISTING CURB ON ONE SIDE AT A TIME TO MAINTAIN TRAFFIC.
2. INSTALL STORM SEWERS.
3. PREPARE WIDENING SUBGRADE AND AGGREGATE BASE.
4. CONSTRUCT NEW CURB AT THE DESIGN ELEVATIONS.
5. CONSTRUCT NEW CONCRETE BASE AT WIDENING. CONCRETE BASE TO MATCH EXISTING PAVEMENT SURFACE.
6. REPEAT FOR OTHER SIDE OF ROAD.
7. INSTALL OVERLAY AT VARYING CROSS SLOPE BETWEEN DESIGN CENTERLINE GRADE AND THE NEW CURB.

TYPICAL SECTION NOTES:

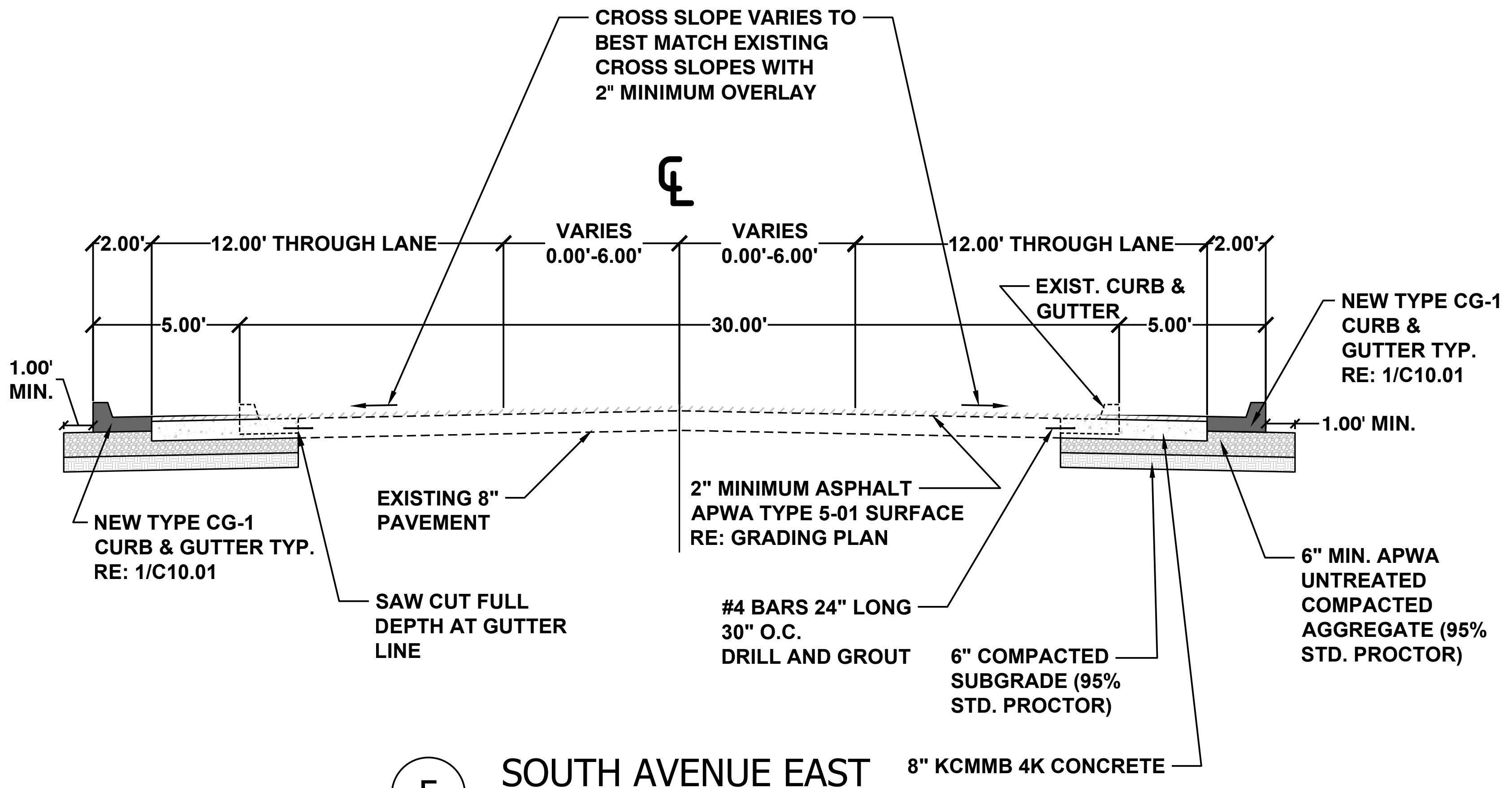
1. ALL CONCRETE FOR SIDEWALKS & CURBS SHALL CONFORM TO KCMMB 4K SPECIFICATIONS. ALL COARSE AGGREGATE FOR SIDEWALKS SHALL BE ENTIRELY GRANITE.
2. NEW SIDEWALK, ADJACENT TO CURB & GUTTER, SHALL BE THICKENED AND DOWELED TO THE CURB & GUTTER . SEE 3/C10.01
3. TYPICAL SECTIONS SHOWN ARE FOR MATERIAL THICKNESS AND GENERAL INFORMATION. SEE PLAN & PROFILE SHEETS FOR DETAILED LAYOUT AND STATION INFORMATION.



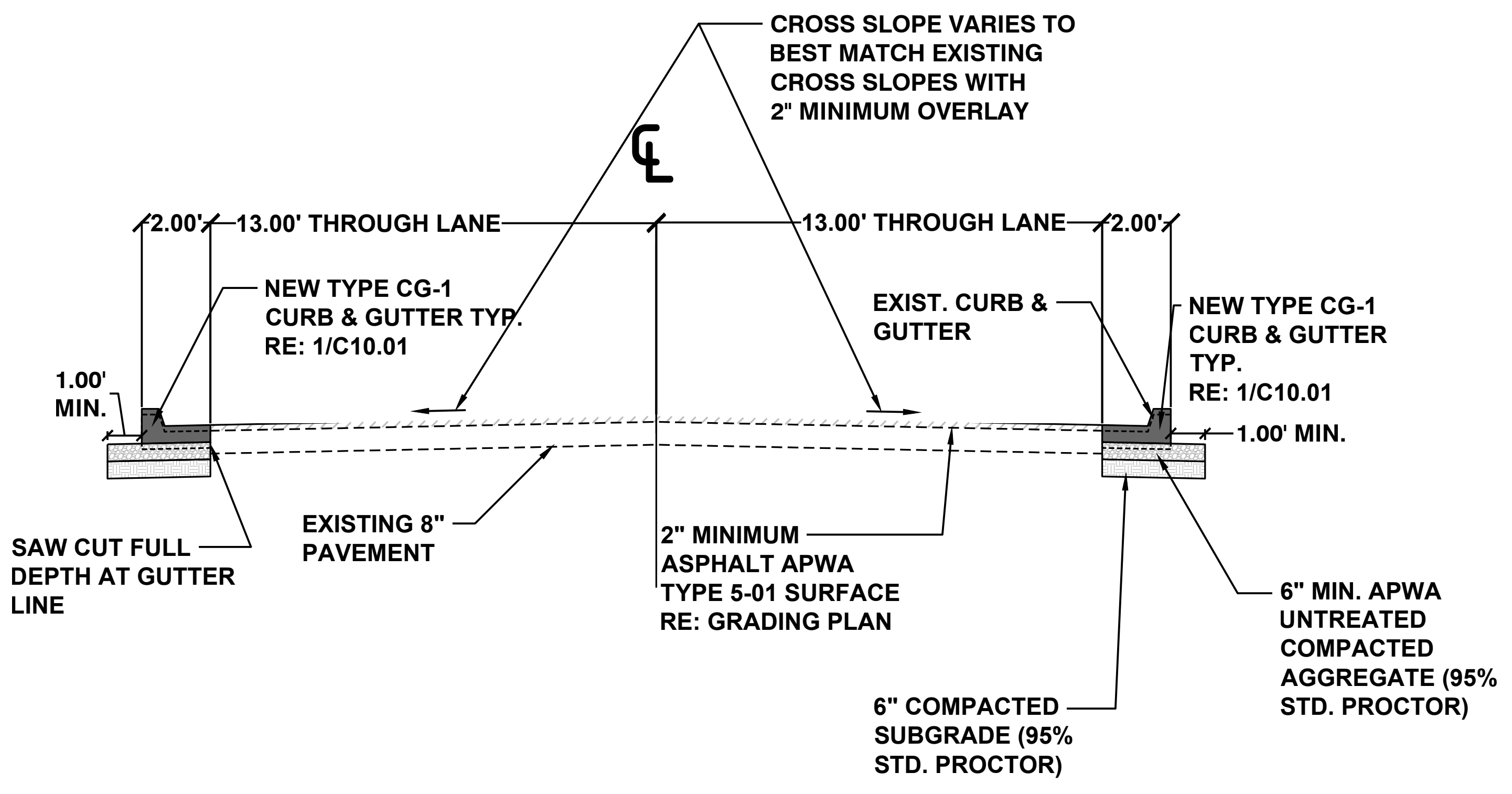
④ SOUTH AVENUE EAST
Not to Scale

STA 45+92.52-47+08.90

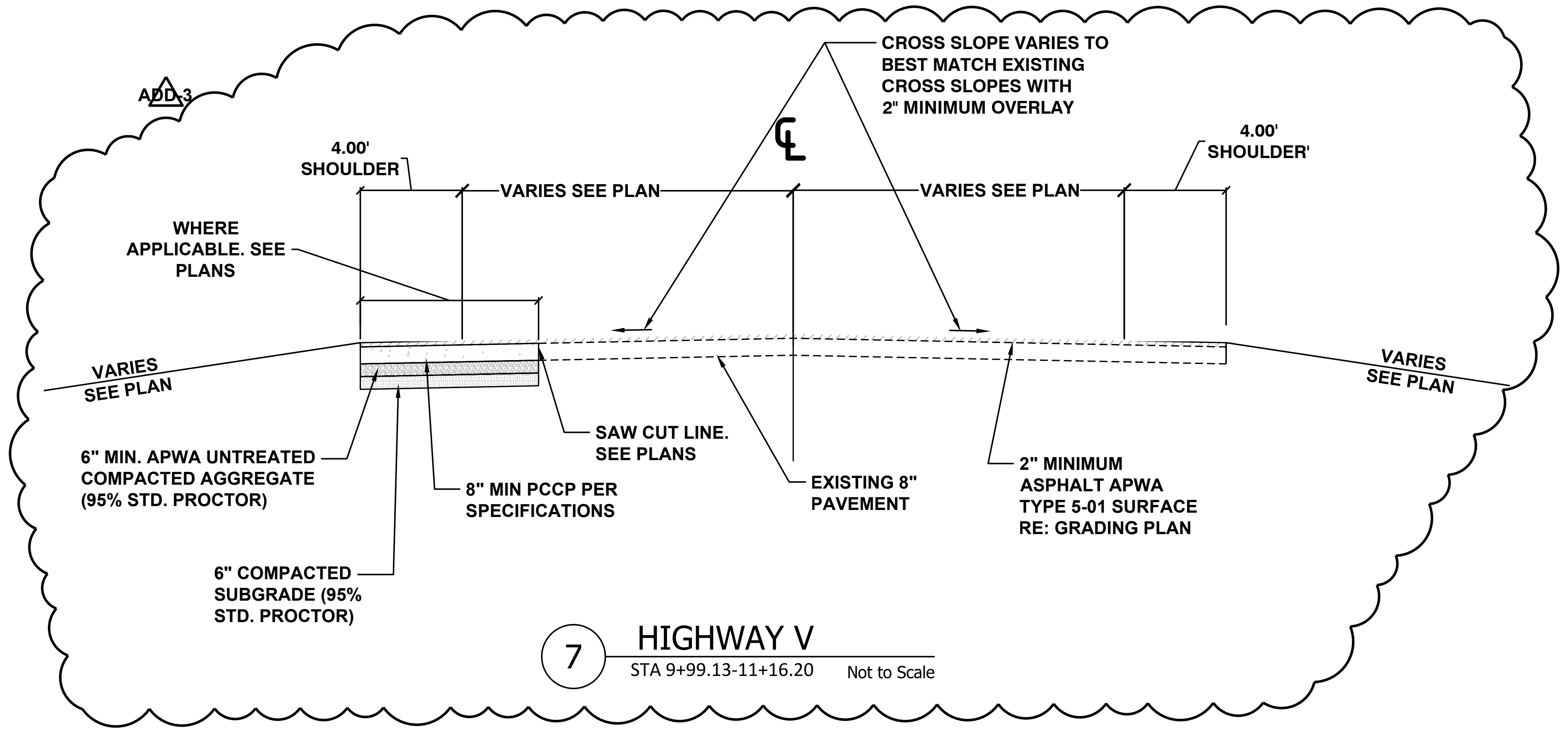
NOTE: SAME SECTION APPLIES TO
STA 45+75.52 TO STA 45+92.79, EXCEPT
THE WIDTH OF FULL DEPTH SECTION
VARIES ON BOTH SIDES, SEE PLAN.



⑤ SOUTH AVENUE EAST
STA 47+08.90-48+38.45
Not to Scale



⑥ SOUTH AVENUE EAST
STA 48+38.48-49+55.59
Not to Scale



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TYPICAL SECTIONS-1

C00.61

U:\2016\16-108\2021-02-08 Bid Set\C04.00-Overall Site Plan.dwg Plotted: Mar 05, 2021 – 12:09pm by snader

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OVERALL SITE PLAN

C04.00

LEGEND

▭	NEW FULL DEPTH PAVEMENT. TYPE VARIES BY SEGMENT RE: TYPICAL SECTIONS SHEETS C00.61 TO C00.65
▭	NEW MILL & OVERLAY. THICKNESS VARIES SEE TYPICAL SECTIONS SHEETS C00.61 TO C00.65
▭	NEW 2" ASPHALT OVERLAY RE: TYPICAL SECTIONS, C00.61
▭	NEW COMMERCIAL CONCRETE ENTRANCE RE: 2/C10.02
▨	NEW RESIDENTIAL CONCRETE DRIVEWAY RE: 3/C10.02
▦	CONCRETE SIDEWALK RE: 3/C10.01
▨	NEW 2" ASPHALT OVERLAY
═	NEW TYPE CG-1 CURB & GUTTER RE: 1/C10.01
▬	NEW TYPE CG-1 CURB & GUTTER (DRY) RE: 1/C10.01
═	NEW FLUSH CURB RE: 1/C10.01
▦	CURB HEIGHT TRANSITION 6" HIGH TO 0" HIGH RE: 2/C10.01
▭	NEW RETAINING WALL RE: 4/C10.07

"Walmart Drive PROFILE"

U:\2016\16-108\2021-02-08 Bid Set\C04.31-Walmart Plan & Pro.dwg Plotted: Mar 04, 2021 - 2:01pm by snader

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WALMART DRIVE PLAN AND PROFILE

C04.31

ADD-3

NOTE:

TYPICAL WALL THICKNESS AND REINFORCING FOR INLETS IS SHOWN ON SHEETS C10.03 AND C10.04. SEE NOTE 5 ON SHEET C10.03 FOR INLET SIZES REQUIRING SPECIAL DESIGN. THE FOLLOWING SCHEDULE SHALL BE USED FOR THE SPECIAL INLETS.

SCHEDULE FOR INLETS REQUIRING SPECIAL DESIGN

SHEET #	INLET LABEL	INLET SIZE	WALL THICKNESS	WALL REINFORCEMENT
C08.13	E4	8'X5'	8"	HORIZONTAL BARS: #6 @6" O.C.
C08.13	E5	8'X6'	8"	HORIZONTAL BARS: #6 @6" O.C.
C08.27	AA2	9'X9'	8"	HORIZONTAL BARS: #7 @6" O.C.

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OVERALL STORM SEWER PLAN

C08.01

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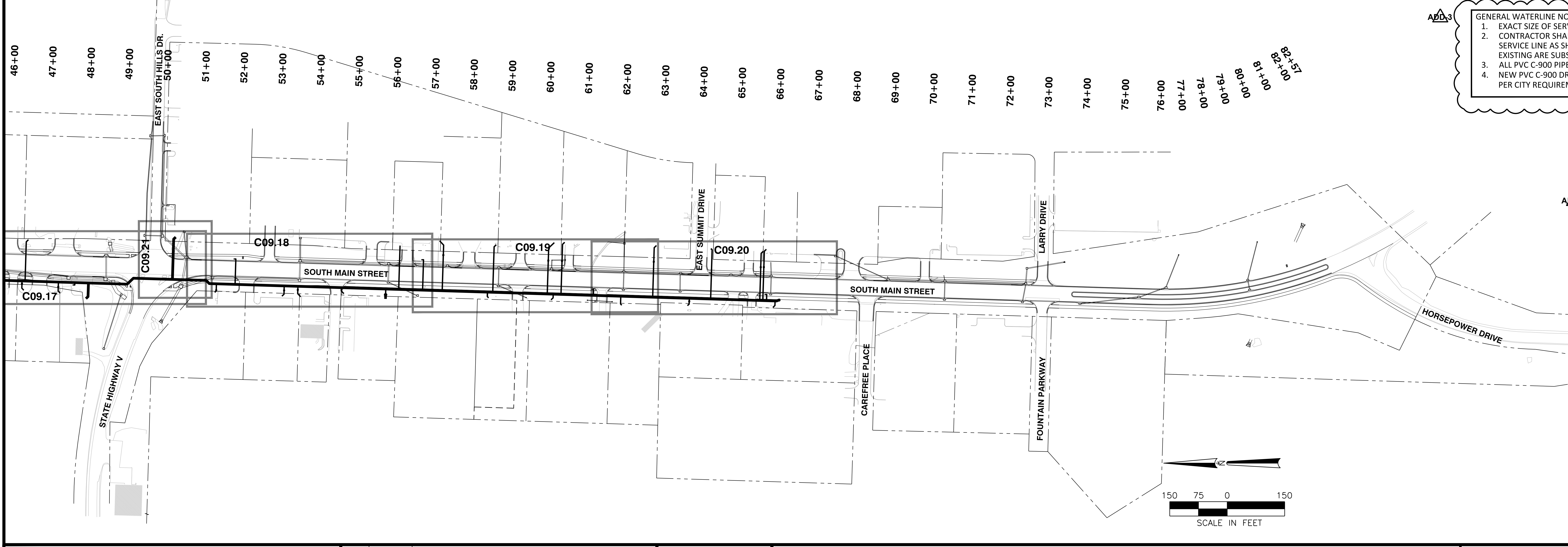

ADD-3

GENERAL WATERLINE NOTES:

1. EXACT SIZE OF SERVICE LINE AND METER TO BE VERIFIED BY THE CONTRACTOR
2. CONTRACTOR SHALL INSTALL METERS ON SERVICE LINES AND CONNECT TO EXISTING SERVICE LINE AS SHOWN, PER CITY REQUIREMENTS. METERS AND CONNECTIONS TO EXISTING ARE SUBSIDIARY TO THE SERVICE LINE ITEM.
3. ALL PVC C-900 PIPE SHALL BE DR-14 WITH TRACER WIRE PER CITY REQUIREMENTS.
4. NEW PVC C-900 DR-14 PIPES MAY BE DIRECT TAPPED WITH 3/4" AND 1" SERVICE LINES PER CITY REQUIREMENTS.

ADD-3

LEGEND

〰	EXISTING WATER LINE TO BE REMOVED
▬	EXISTING WATER LINE TO BE ABANDONED IN PLACE. PLUG ENDS.
—·—	EXISTING WATERLINE TO REMAIN
⊙	EXISTING METER
¤	EXISTING FIRE HYDRANT
—	NEW WATERLINE
●	NEW VALVE
—	NEW REDUCER
—	NEW ELBOW AND BACKING BLOCK
⊥	NEW TEE AND BACKING BLOCK
▫●	NEW FIRE HYDRANT
⊡	NEW WATER METER
=	NEW SOLID SLEEVE

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OVERALL WATER LINE PLAN

C09.00

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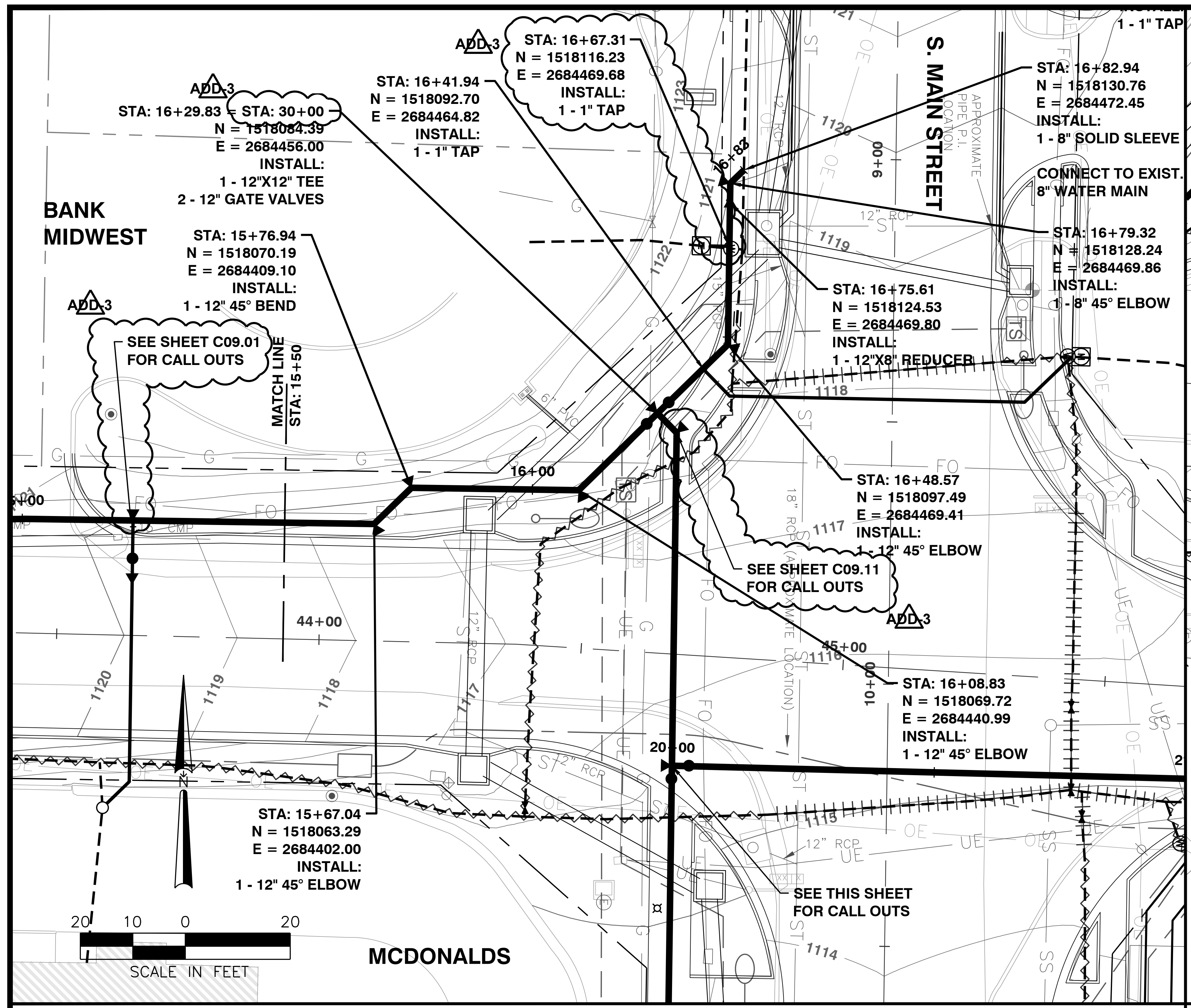
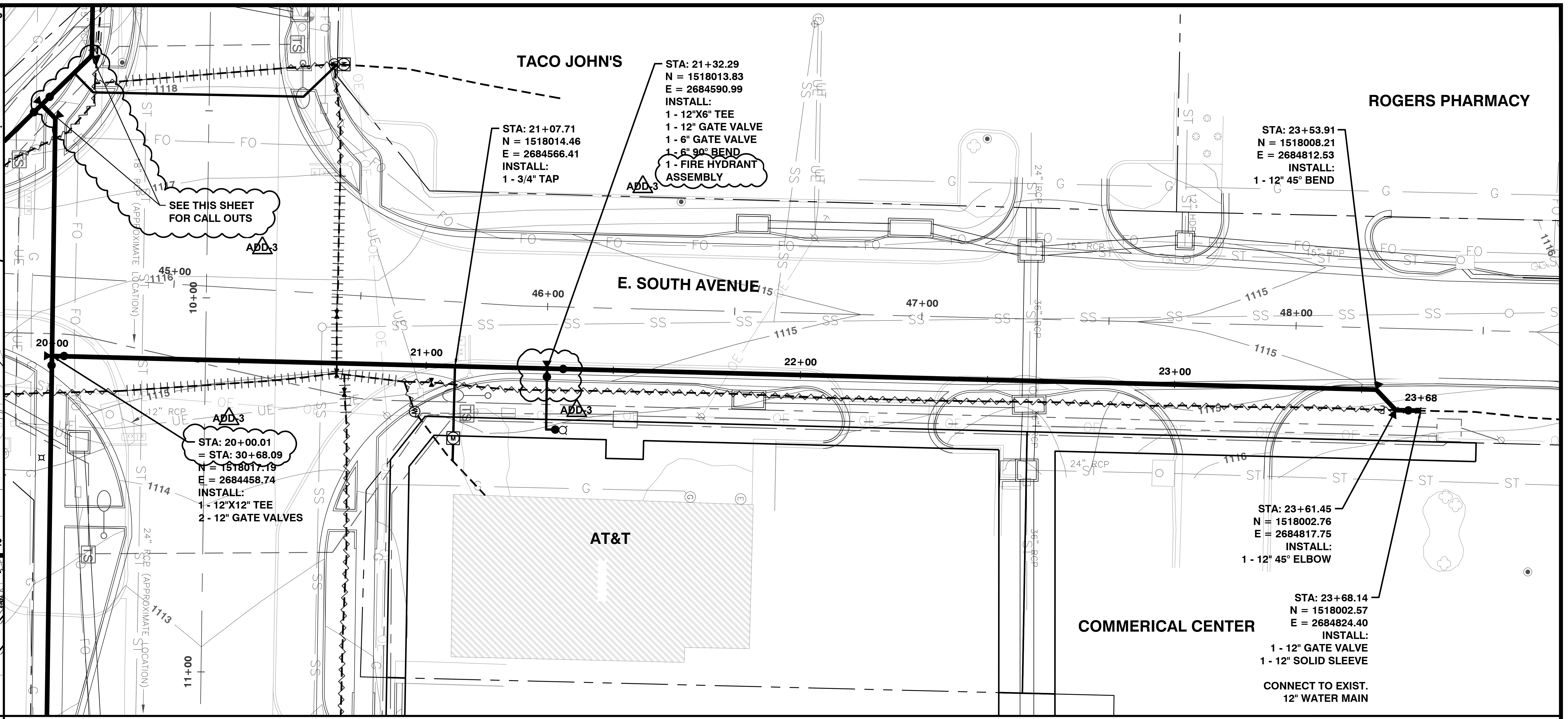
SOUTH AVE WATER PLAN AND PROFILE-1

C09.01





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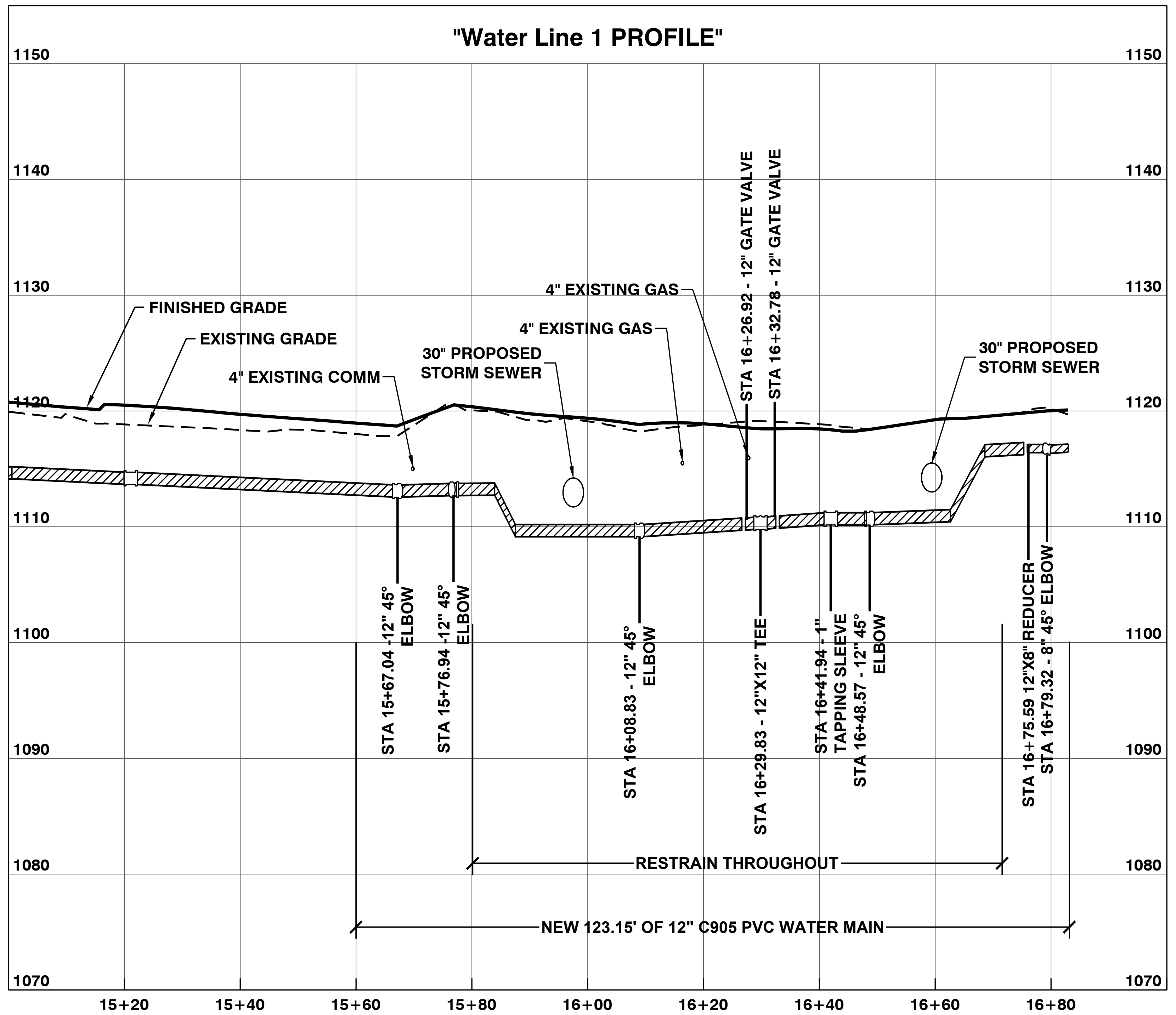

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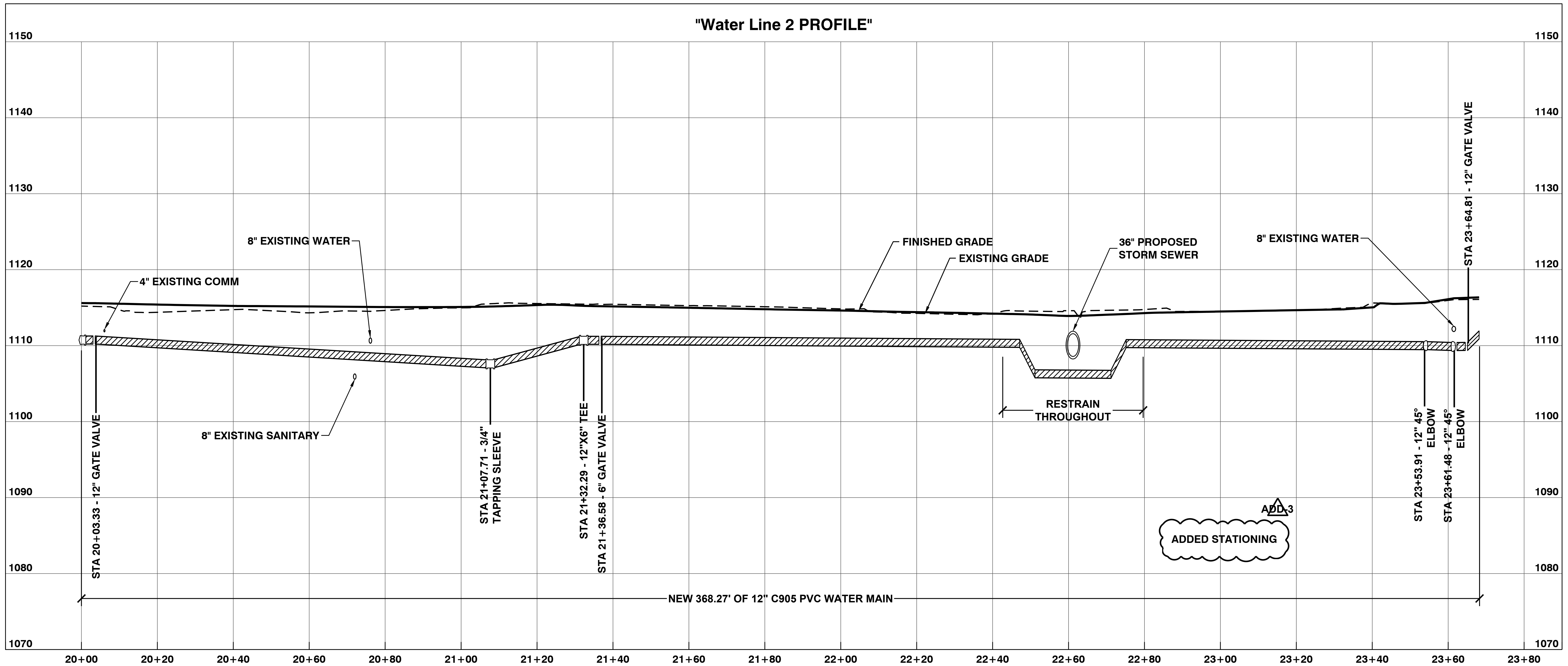

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Survey
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Tel: (660) 582-8633

REV. NO.	DATE	DESCRIPTION
ADD-3	2021-03-05	ADDENDUM #3

JOHN D. CHAMBERLIN
2-9-21

SK Project No. 16-108
Design: JS
Checked: JC

South Main Corridor Improvement Project
STP-4300 (112)
City of Maryville, Missouri

Issued for: Construction

Date: 2021-02-08

SOUTH AVE WATER PLAN AND PROFILE-2

C09.02

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REV. NO.	DATE	DESCRIPTION
ADD 3	2021-03-05	ADDENDUM #3

JOHN D. CHAMBERLAIN
2-9-21
29484

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Design: JS
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SOUTH MAIN WATER PLAN AND PROFILE-1

C09.11

U:\2016\16-108\2021-02-08 Bid Set\C09.11-C09.20-S Main Water Line 3.dwg Plotted: Mar 04, 2021 - 2:12pm by snader

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SOUTH MAIN WATER PLAN AND PROFILE-2

C09.12

"Water Line 3 PROFILE"

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SOUTH MAIN WATER PLAN AND PROFILE-3

C09.13

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SOUTH MAIN WATER PLAN AND PROFILE-4

C09.14

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SOUTH MAIN WATER PLAN AND PROFILE-5

C09.15

U:\2016\16-108\2021-02-08 Bid Set\C09.11-C09.20-S Main Water Line 3.dwg Plotted: Mar 04, 2021 - 2:19pm by snader

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SOUTH MAIN WATER PLAN AND PROFILE-6

C09.16

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SOUTH MAIN WATER PLAN AND PROFILE-7

C09.17

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REV. NO.	DATE	DESCRIPTION
ADD-3	2021-03-05	ADDENDUM #3

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SOUTH MAIN WATER PLAN AND PROFILE-8

C09.18

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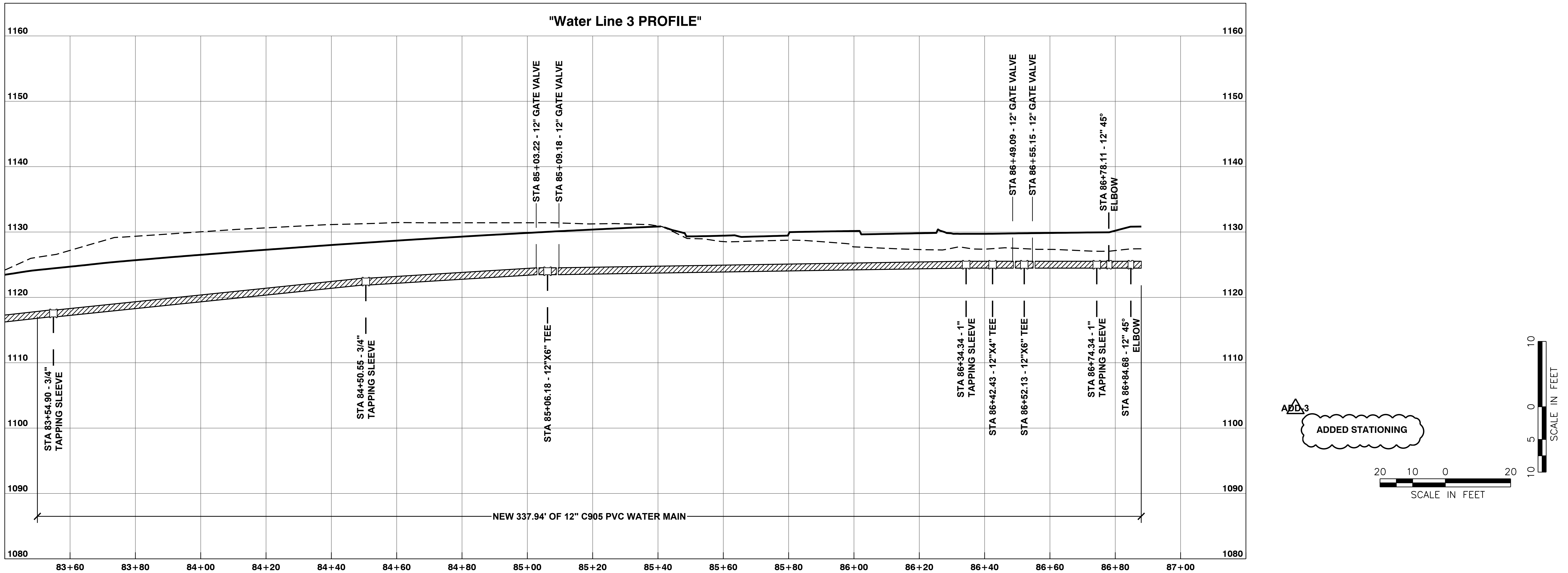
SOUTH MAIN WATER PLAN AND PROFILE-9

C09.19



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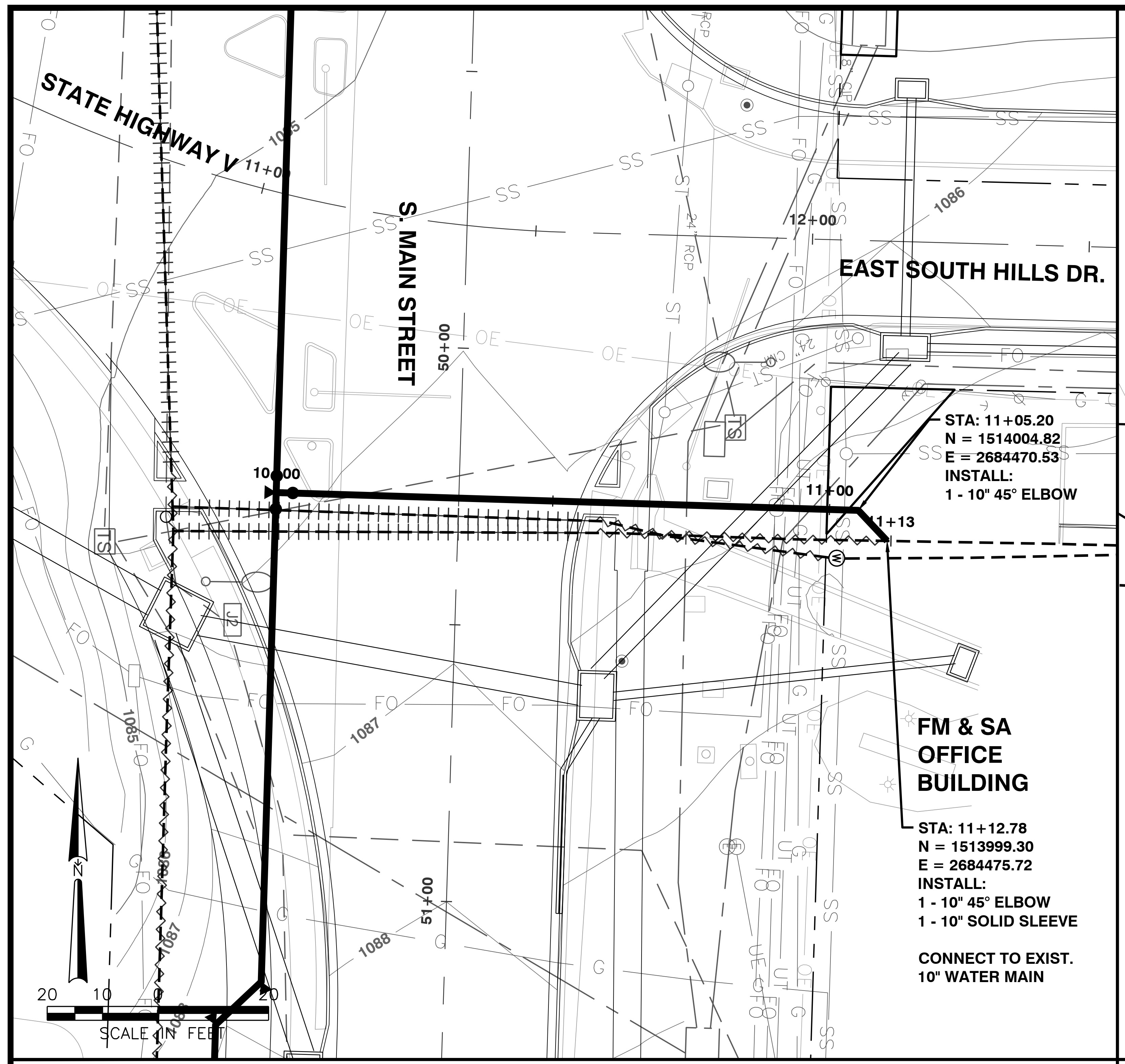
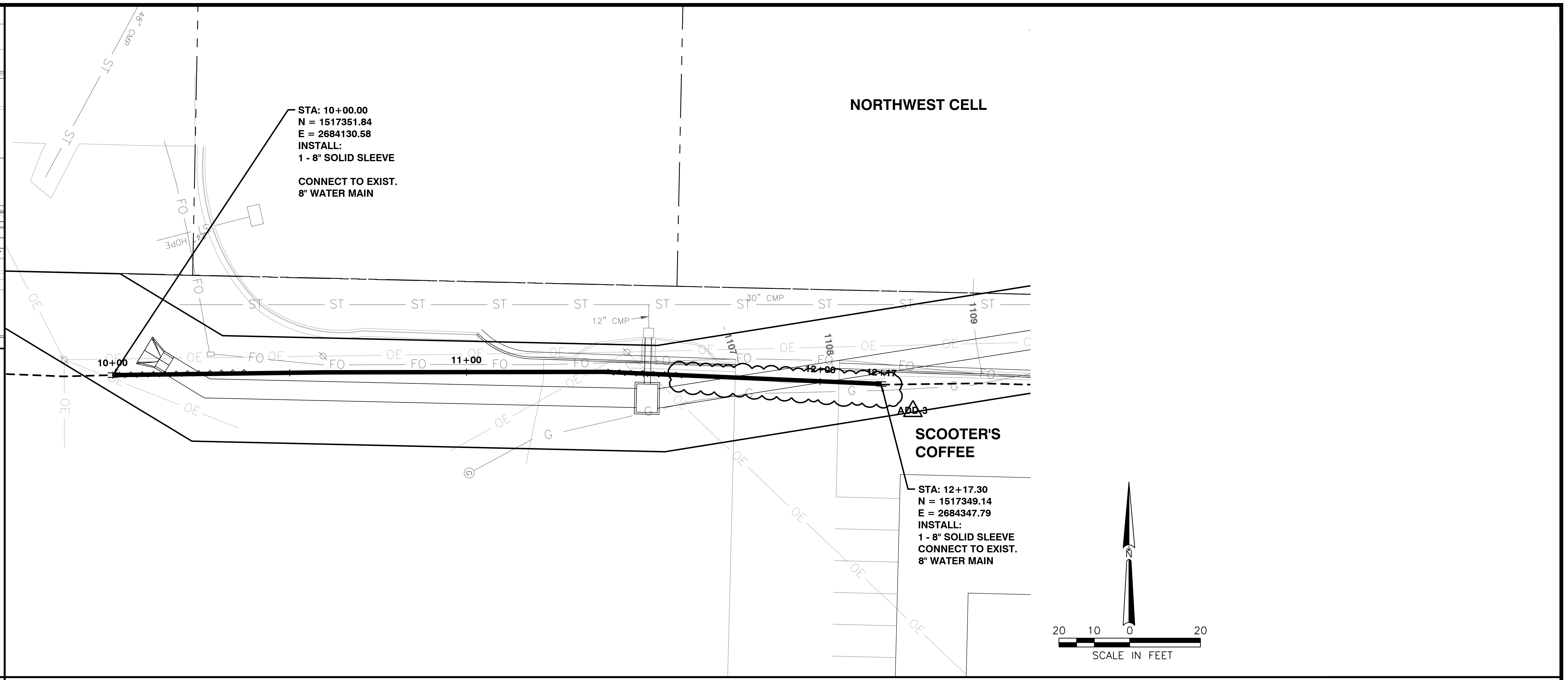
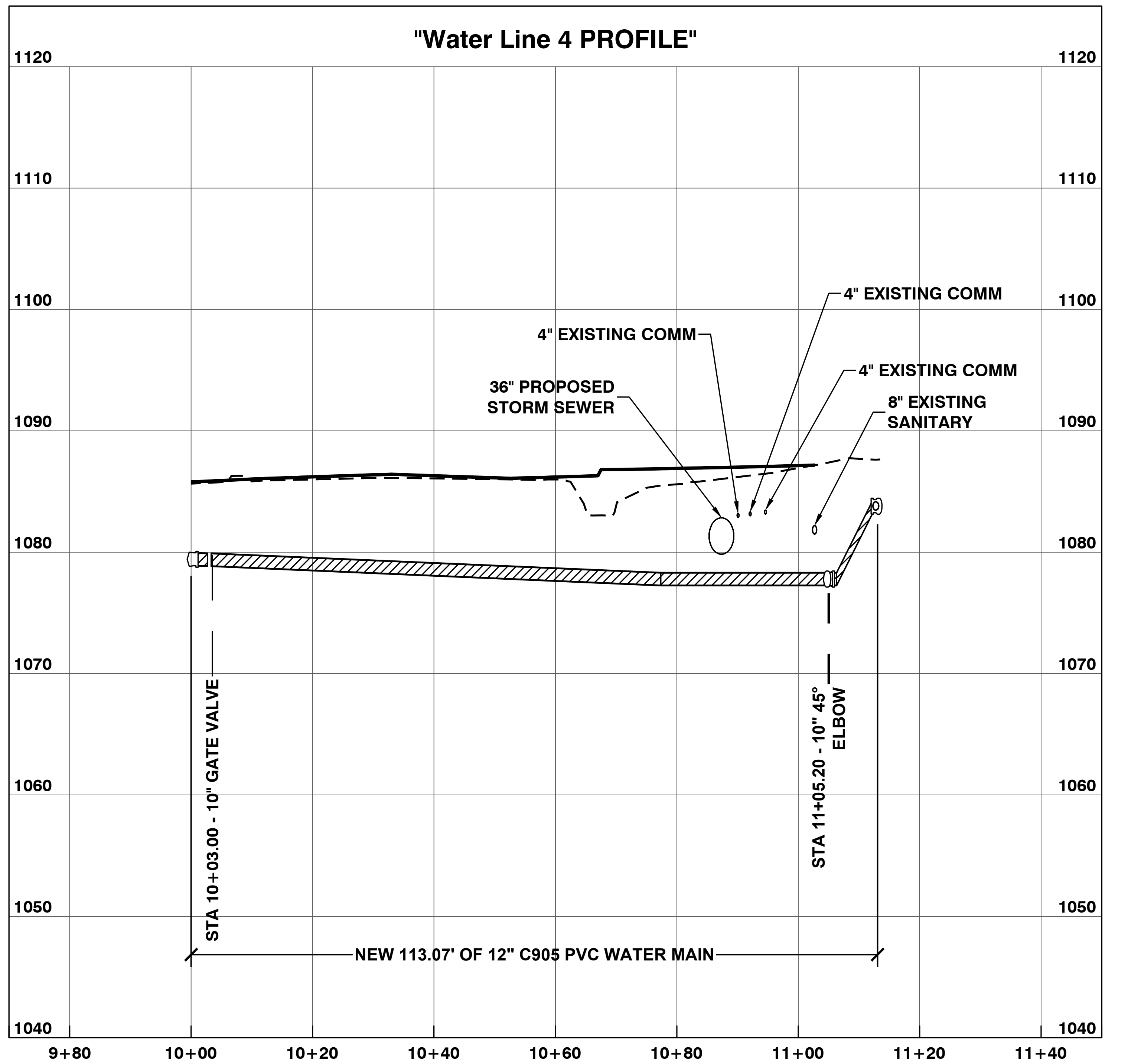
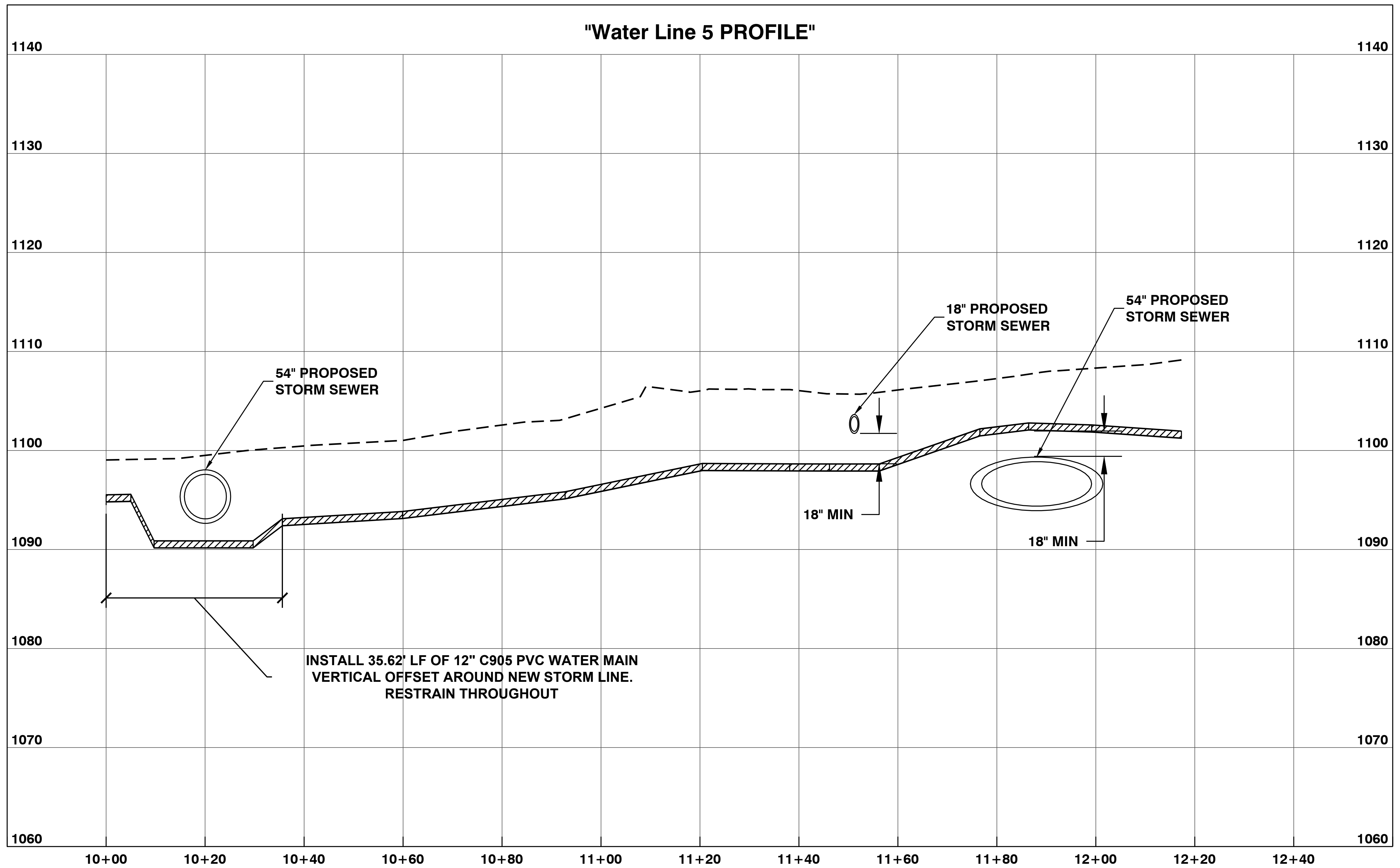
SOUTH MAIN WATER PLAN AND PROFILE-10

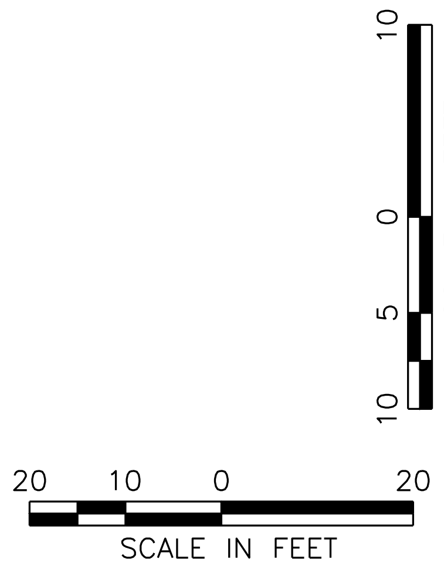
C09.20











ADD 3
ADDED STATIONING AND SCALE BAR

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SOUTH MAIN WATER PLAN AND PROFILE-11

C09.21

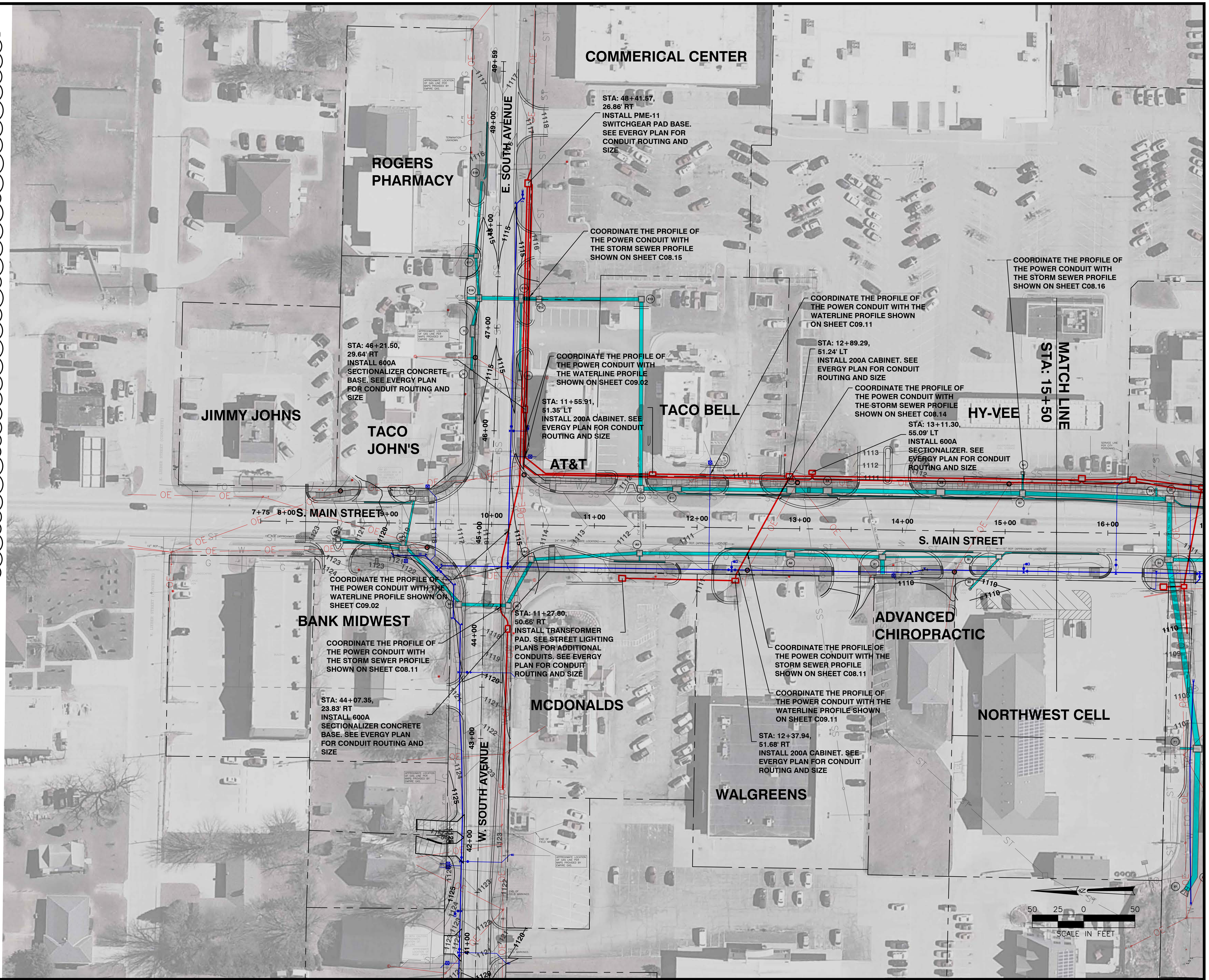
ADD-3

Electrical General Notes:

1. Conduit shall be installed by Contractor according to the design provided by Evergy
2. Evergy must inspect and approve the conduit installation, including street crossings before installing the electrical facilities. The Contractor shall request inspection by Evergy representative. Conduit trenches shall not be backfilled until approved by Evergy representative.
3. The Contractor shall provide all conduit, connectors, and bends. The Contractor shall install all concrete bases and conduit systems. Single phase transformer, sectionalizer, and 600 A pads will be provided by Evergy. All ground rods and service pedestals shall be provided by Evergy and installed by the Contractor. Contractor shall provide and install three phase concrete transformer bases.
4. The contractor is responsible for purchase and installation of all secondary conduit and cabling in accordance with Evergy specifications and conduit layout.
5. The contractor is responsible for the service alterations necessary to refeed any electrical services impacted by the relocation and underground conversion.
6. The contractor is responsible for contracting a qualified electrician who will need to place conduit from a pedestal or transformer to the meter location, and any conversion cost associated with the meter socket and service entrance.
7. The contractor is responsible for additional cost for underground cable and conduit to refeed private lights.
8. Conduits including street crossings, shall be installed to allow a minimum of 41” of cover for primary and secondary conduits when measured from final grade. Bore or open cut and patch existing pavements as necessary at no additional cost to the owner.
9. Conduit at transformers, service pedestals and sectionalizer locations shall turn up as shown on Evergy service drawings using pvc 36” radius bends. Long radius 36” elbows shall be used on all horizontal bends, such as around corners or at a change in direction.
10. Open ends of conduit shall be capped without pvc glue and covered with duct tape to prevent debris from entering.
11. Conduit shall be of proper size as noted on Evergy's construction drawings.
12. Trench backfill shall be clean and adequately compacted to prevent future settlement.
13. Care shall be taken during backfilling not to damage conduit or disturb arrangement of vertical conduit turned up at transformers, pedestals or sectionalizers.
14. A heavy poly twin pull string shall be installed in all conduits by the Contractor. If the pull string breaks it is the Contractors responsibility to replace.
15. Conduit shall be installed in a straight line if possible. Conduit runs are allowed no more than three bends total. Only two 90-degree bends are allowed. If a horizontal turn is needed one horizontal bend up to a 90.
16. Red danger tape shall be installed 6”-12” below final grade above the conduit.
17. Multiple conduit installations shall be in the same trench separated by no more than 4 inches between conduits.
18. Primary, secondary, service conduits shall be NEC approved conduit, such as UL listed rigid schedule 40 gray PVC or electrical grade SDR 13.5 black polyethylene with red stripe.
19. Riser conduits shall be gray UL listed rigid PVC schedule 40 or schedule 80.
20. Primary conduit bends shall have 36” radius sweeps and shall be: A. EKC-NEC approved rigid material; B. EKM, EMM, EMW - NEC approved PVC.
21. Secondary and service conduit bends shall have 36” radius sweeps and NEC approved PVC conduit.
22. The horizontal and vertical clearance between conduit and other underground facilities shall be a minimum of 12 inches
23. EKC requires all street and road crossings to use 6.” galvanized steel. Any other product must be approved by Evergy.
24. 200A cabinets do not require bases and the cabinet will be provided by Evergy.
25. Evergy shall pull all primary cabling.
26. See Appendix in Project Manual for additional information regarding Evergy underground installation requirements.

NOTE:
REFER TO DRAWINGS BY EVERGY SHEETS C09.61 - C09.66 FOR ADDITIONAL INFORMATION.

ADD-3



STA: 48+41.57, 26.86' RT INSTALL PME-11 SWITCHGEAR PAD BASE. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE STORM SEWER PROFILE SHOWN ON SHEET C08.15

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE STORM SEWER PROFILE SHOWN ON SHEET C08.16

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE WATERLINE PROFILE SHOWN ON SHEET C09.11

STA: 12+89.29, 51.24' LT INSTALL 200A CABINET. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE STORM SEWER PROFILE SHOWN ON SHEET C08.14

STA: 13+11.30, 55.09' LT INSTALL 600A SECTIONALIZER. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

STA: 46+21.50, 29.64' RT INSTALL 600A SECTIONALIZER CONCRETE BASE. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE WATERLINE PROFILE SHOWN ON SHEET C09.02

STA: 11+55.91, 51.35' LT INSTALL 200A CABINET. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE WATERLINE PROFILE SHOWN ON SHEET C09.02

STA: 11+27.80, 50.66' RT INSTALL TRANSFORMER PAD. SEE STREET LIGHTING PLANS FOR ADDITIONAL CONDUITS. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE STORM SEWER PROFILE SHOWN ON SHEET C08.11

STA: 44+07.35, 23.83' RT INSTALL 600A SECTIONALIZER CONCRETE BASE. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE STORM SEWER PROFILE SHOWN ON SHEET C08.11

COORDINATE THE PROFILE OF THE POWER CONDUIT WITH THE WATERLINE PROFILE SHOWN ON SHEET C09.11

STA: 12+37.94, 51.68' RT INSTALL 200A CABINET. SEE EVERGY PLAN FOR CONDUIT ROUTING AND SIZE

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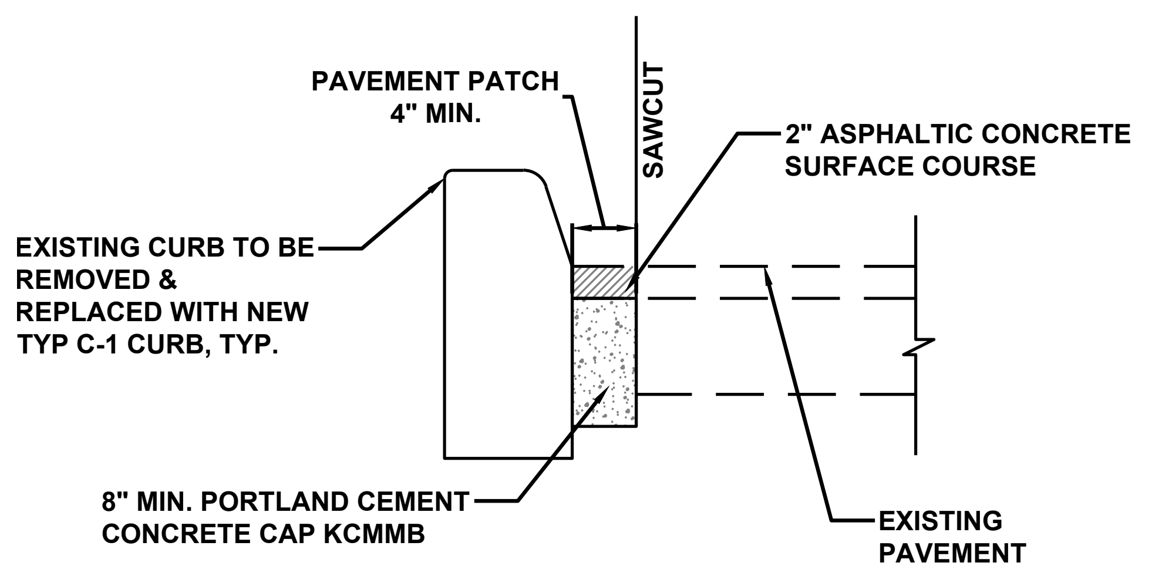
SOUTH MAIN POWER PLAN-1

C09.51

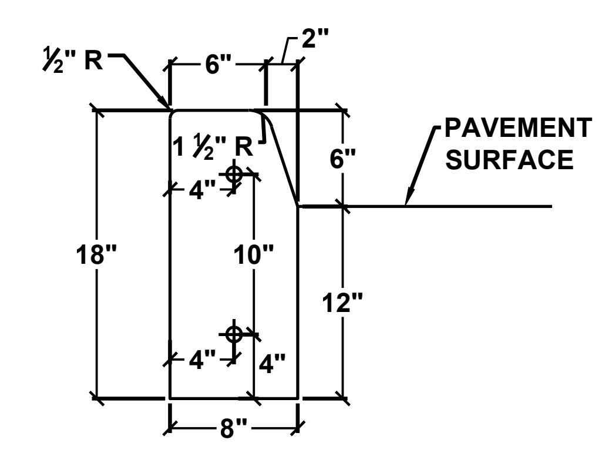
U:\2016\16-108\2021-02-08 Bid Set\C09.51-C09.56-S Main Power.dwg Plotted: Mar 05, 2021 – 12:52pm by snoder

ADD 3



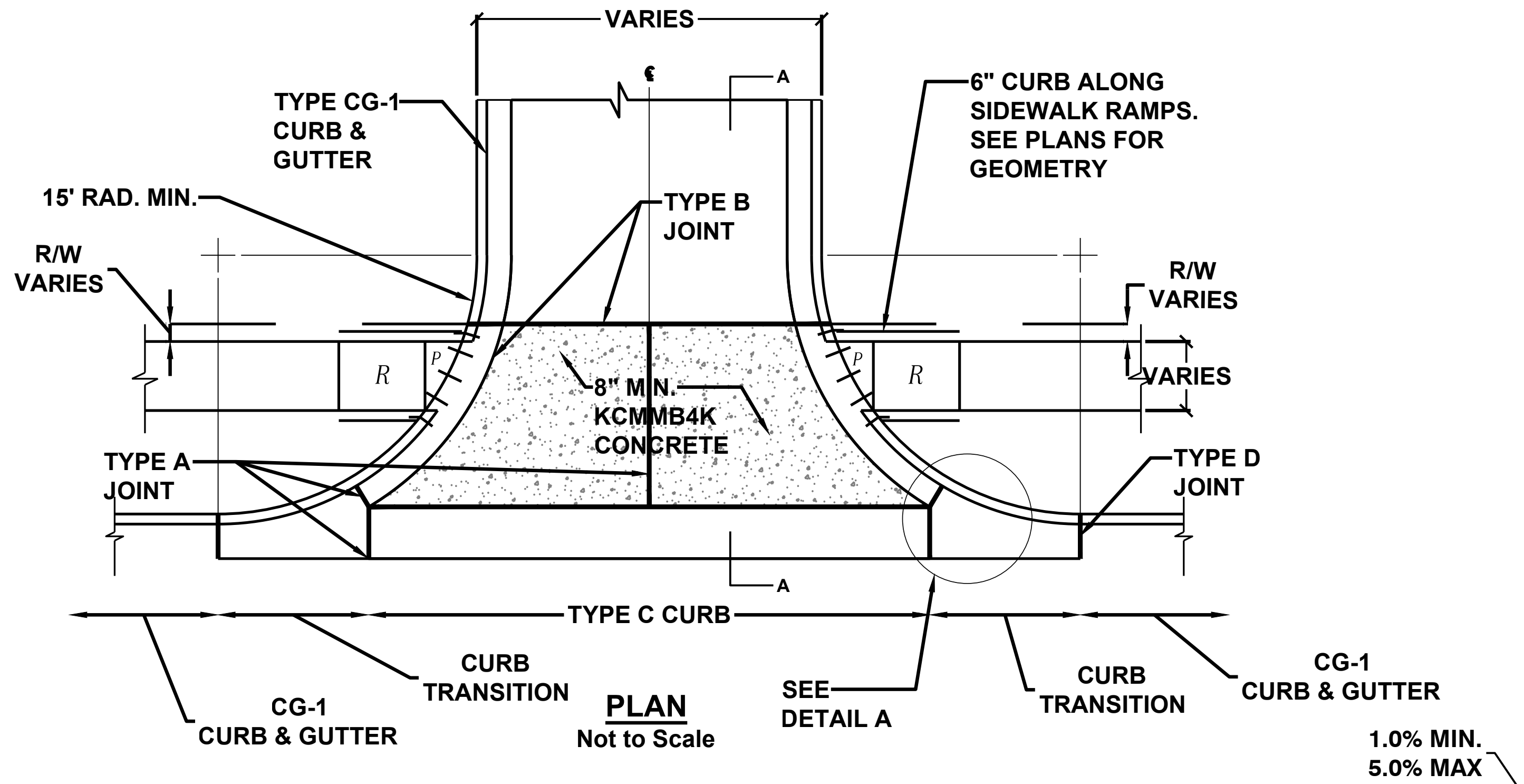
1 PAVEMENT PATCH AT NEW TYPE C-1 CURB

Not to Scale



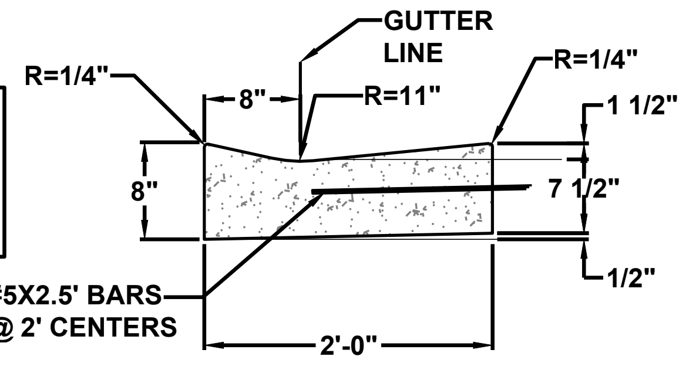
1a STRAIGHT CURB (TYPE C-1)

Not to Scale

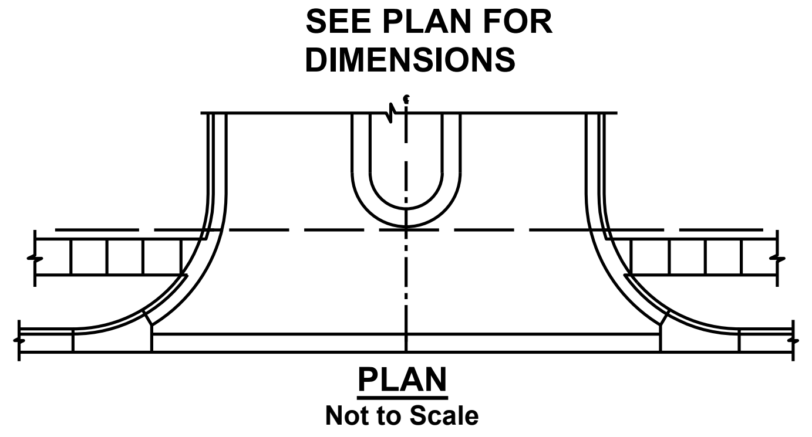


PLAN
Not to Scale

NOTE:
TYPE C CURB AND GUTTER IS SUBSIDIARY TO CONCRETE COMMERCIAL ENTRANCE

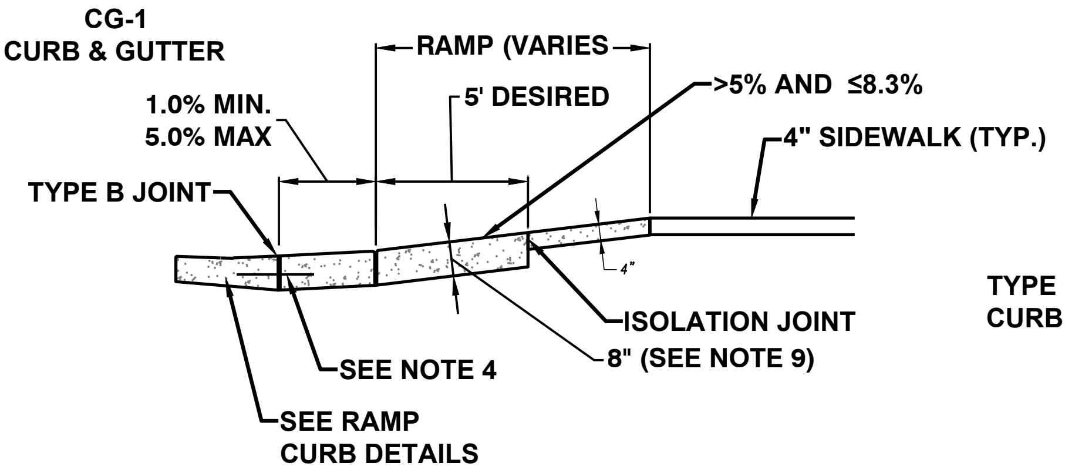


STANDARD TYPE "C" CURB (VALLEY GUTTER)

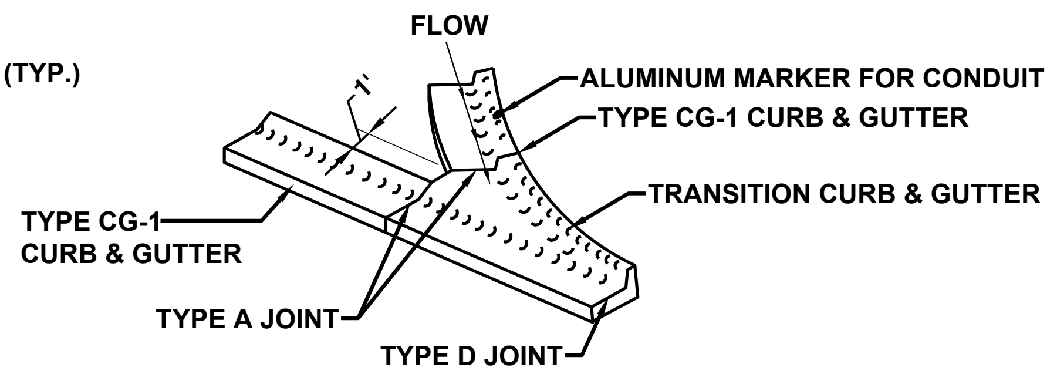


PLAN
Not to Scale
COMMERCIAL ENTRANCE WITH MEDIAN

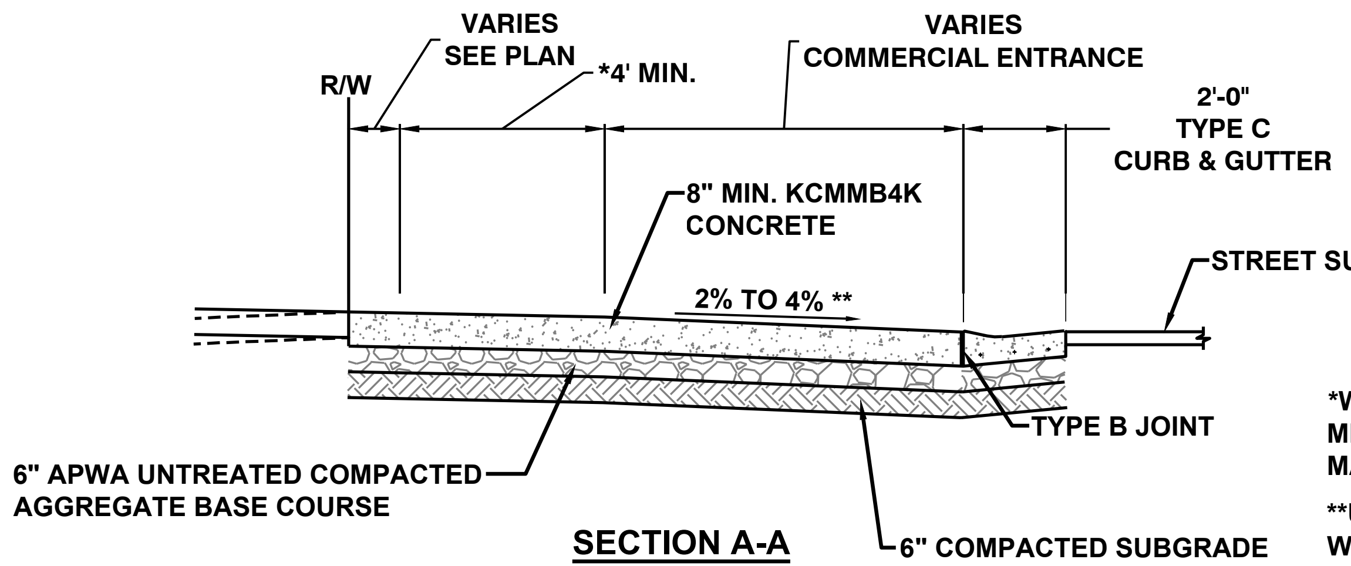
NOTE:
1. KCMMB4K CONCRETE SHALL BE THROUGHOUT.
2. CONCRETE PAVEMENT SHALL BE JOINTED WITH TYPE A JOINTS. NO JOINTED SLAB SHALL EXCEED 12'X12'.
3. DETECTABLE WARNING SURFACES ARE NOT REQUIRED AT NON-SIGNALIZED ENTRANCES.
4. INSTALL 18" TIE BARS #4 EPOXY COATED @ 18" O.C. AND THROUGH WINGS AS SHOWN.
5. SIDEWALK RAMP SHALL BE LENGTHENED TO PROVIDE ADA COMPLIANT SLOPE, BUT NEED NOT EXCEED 15'.
6. ADA MAXIMUM RAMP SLOPE = 1"/FT.
ADA MAXIMUM CROSS SLOPE = 2%
7. TOP OF CURB ELEVATIONS SHALL BE SHOWN AT QUARTER POINTS AND CURB RETURNS.
8. SEE CURB REPLACEMENT DETAIL FOR ADDITIONAL REQUIREMENTS.
9. ONLY 8" THICK PANELS WILL BE PAID FOR AS "RAMP". SIDEWALK BEHIND ISOLATION JOINT WILL BE PAID AS "4 SIDEWALK".



SECTION B-B(*)
*SEE NOTE 3 FOR APPLICATION OF DETECTABLE WARNING SURFACE AND 5/C10.01 FOR DETAIL
NOT TO SCALE



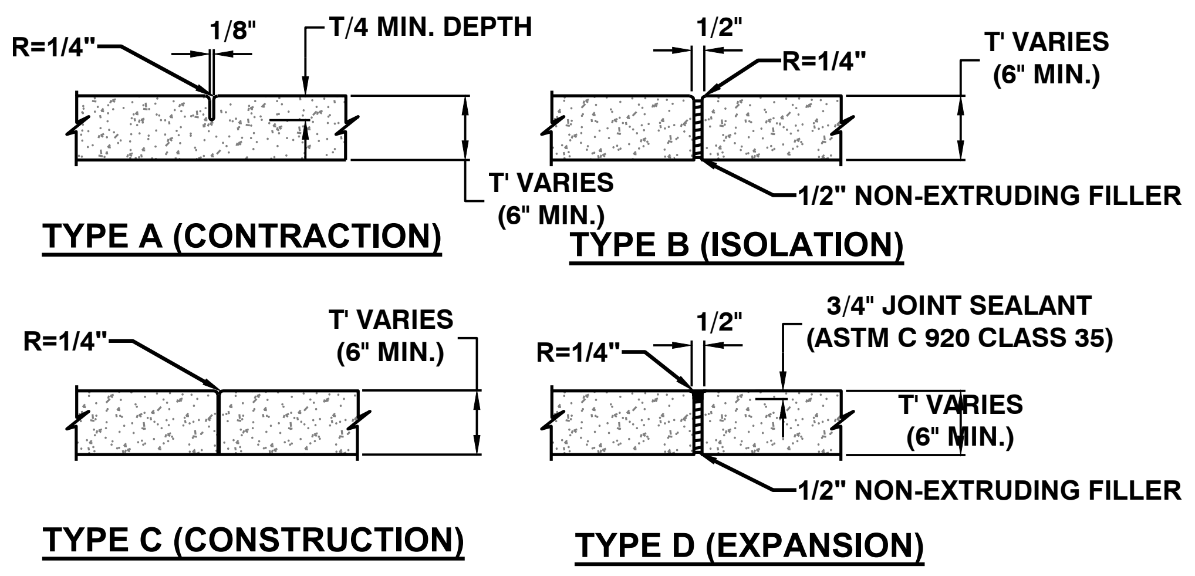
DETAIL A
Not to Scale



SECTION A-A
Not to Scale

*WHEN SIDEWALKS ARE REQUIRED A 1% MIN. AND A 1.5% MAX SHALL BE MAINTAINED THRU DRIVE

**UP TO 8.33% ALLOWABLE WITH APPROVAL OF ENGINEER



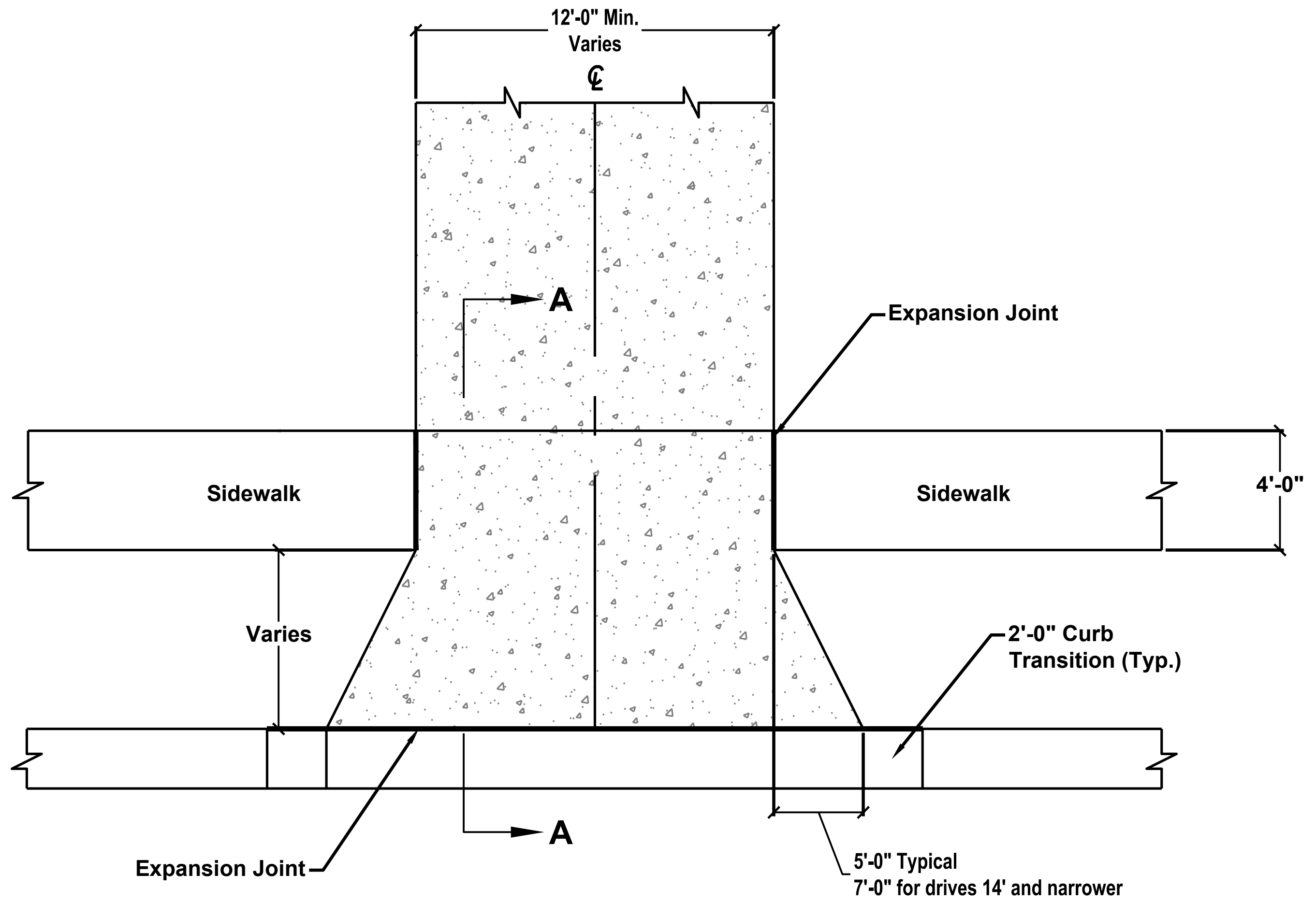
JOINT DETAILS
Not to Scale

2 TYPICAL CONCRETE COMMERCIAL ENTRANCE DETAIL

Not to Scale

NOTES:
CONCRETE PAVING JOINT SPACING SHALL NOT EXCEED 12' ON CENTER IN EACH DIRECTION

NOTE:
1. ALL CONCRETE FOR RESIDENTIAL DRIVE ENTRANCES SHALL CONFORM TO KCMMB 4K SPECIFICATIONS. ALL COARSE AGGREGATES SHALL BE ENTIRELY GRANITE OR QUARTZ.



PLAN
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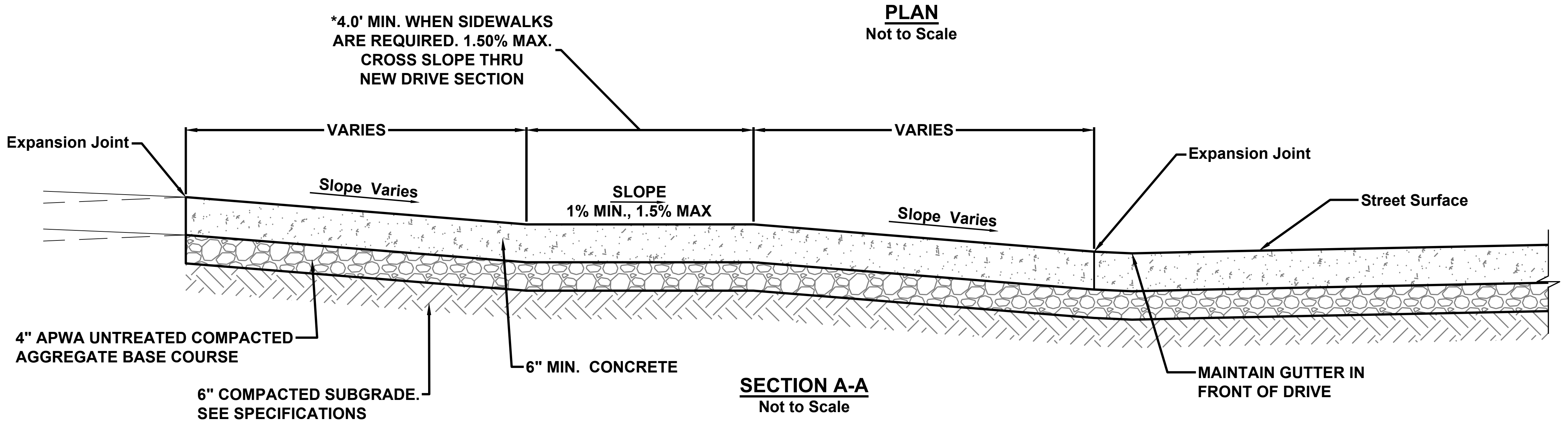

SECTION A-A
Not to Scale

3 RESIDENTIAL DRIVEWAY DETAIL

Not to Scale

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REV. NO.	DATE	DESCRIPTION
ADD 3	2021-03-05	ADDENDUM #3

JOHN D. CHAMBERLAIN
2-9-21

SK Project No. 16-108
Design: JS
Checked: JC

South Main Corridor Improvement Project
STP-4300 (112)
City of Maryville, Missouri

Issued for: Construction

Date: 2021-02-08

DETAILS-2

C10.02

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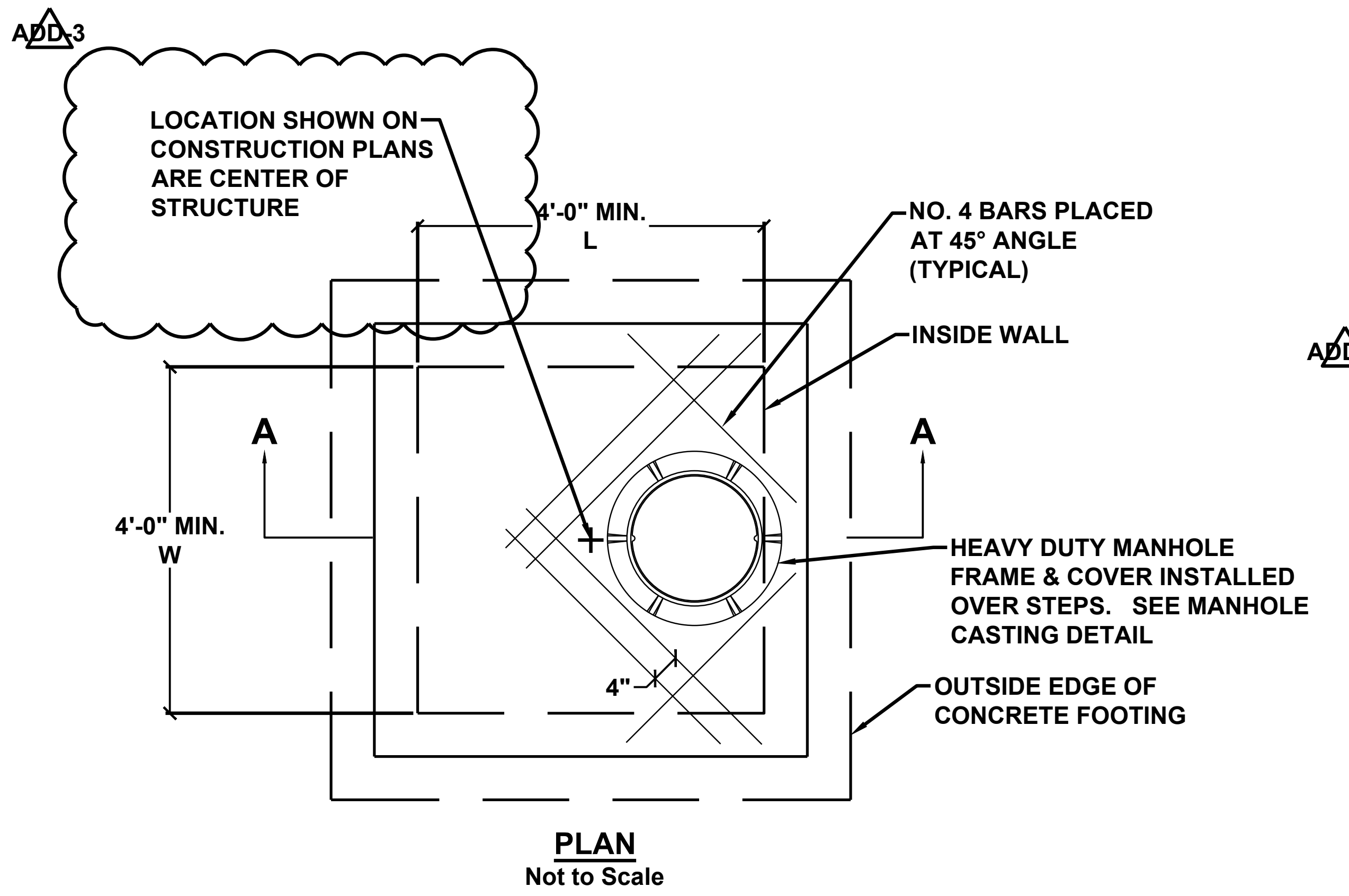

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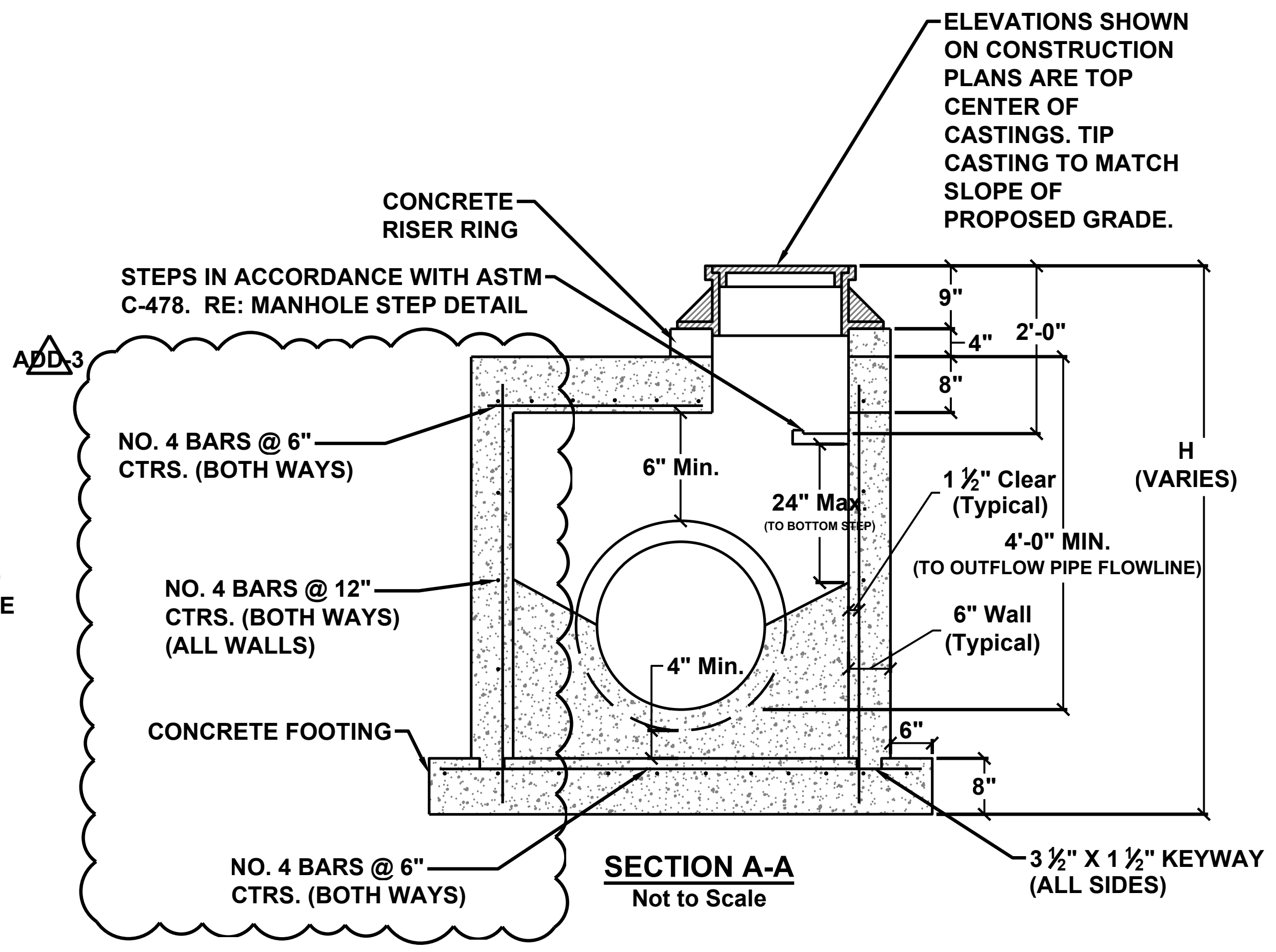
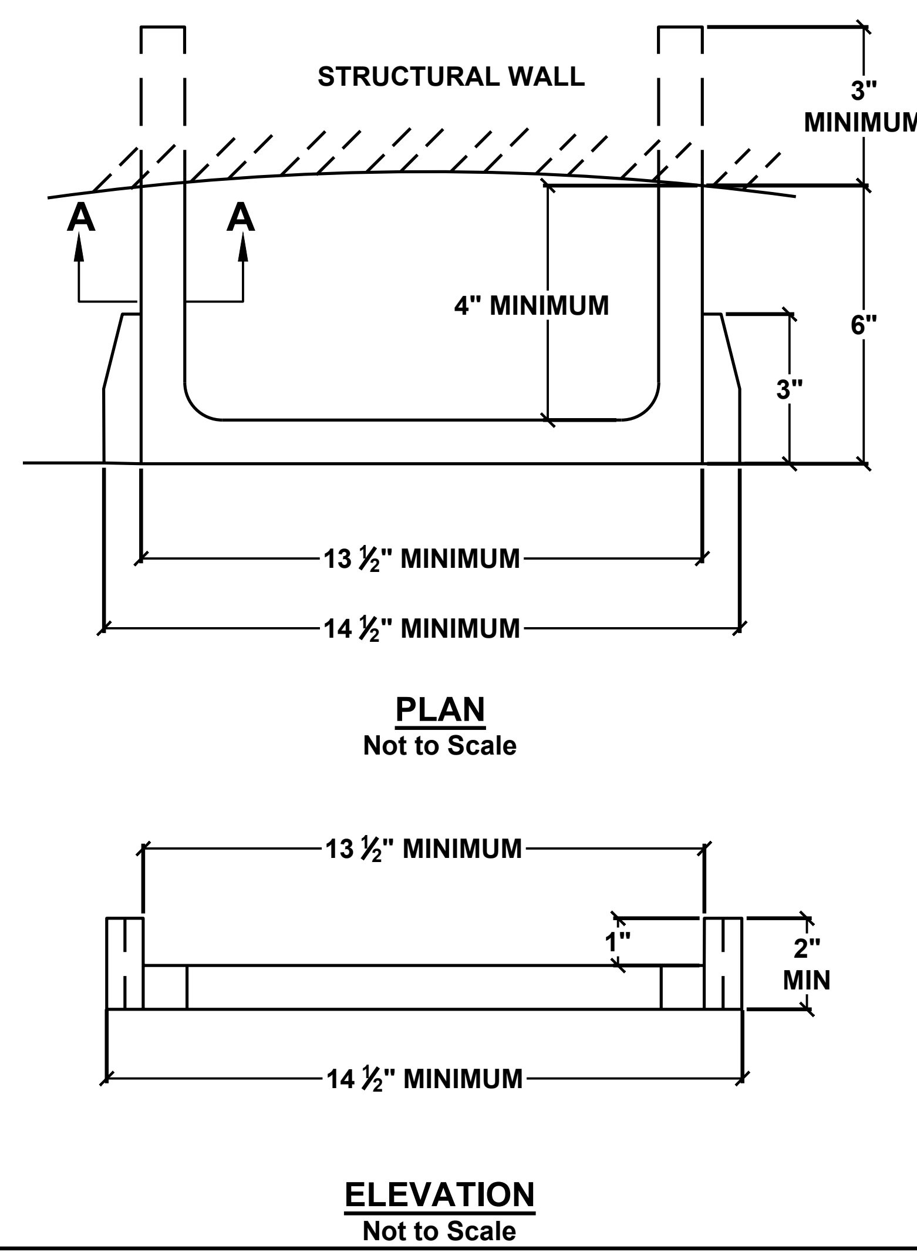


SECTION A-A
Not to Scale

① JUNCTION BOX DETAIL
Not to Scale



ELEVATION
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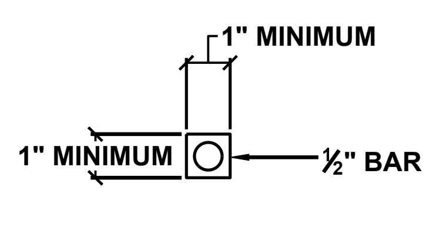
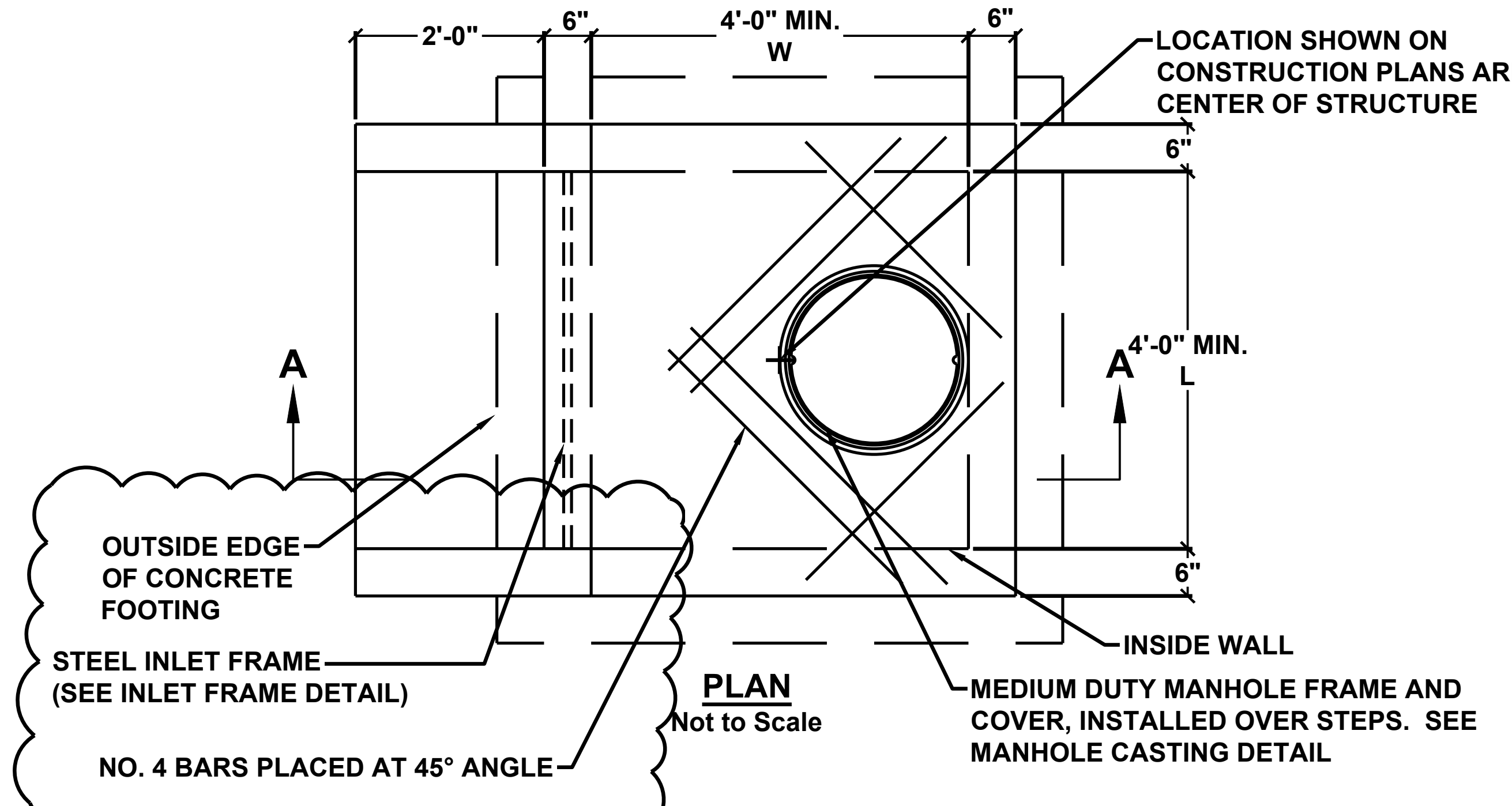


SECTION A-A
Not to Scale

GENERAL NOTE:

1. ALL STEPS SHALL MEET THE FOLLOWING SPECIFICATIONS:
   GENERAL: ASTM C-478 EXCEPT THAT THE HORIZONTAL PULL OUT LOAD SHALL BE 1,000 POUNDS, AND THE STEPS SHALL BE INSTALLED SO THAT DISTANCE FROM THE WALL OF THE RISER OR CONE, MEASURED FROM THE POINT OF EMBEDMENT TO THE OUTSIDE FACE OF THE RUNG IS 6".
   PLASTIC: ASTM D-4101 PP200B33454 (COPOLYMER POLYPROPYLENE STANDARD).
   STEEL REINFORCED BAR: ASTM A-615 GRADE 60 (½" DEFORMED STEEL REINFORCEMENT THROUGHOUT) .
2. INSTALLATION METHOD MAY BE EITHER "DRIVE IN", "CAST IN PLACE", OR "GROUTED IN". DRIVEN IN STEPS ARE NOT TO BE INSTALLED UNTIL THE CONCRETE HAS REACHED A MINIMUM COMPRESSIVE STRENGTH OF 3,000 PSI. EXPANSIVE GROUT SHALL BE USED FOR GROUTED IN STEPS.
3. ALL STEPS SHALL HAVE MANUFACTURES NAME, STEP NUMBER AND/OR MODEL NUMBER AND ASTM C-478 STAMPED IN THE PLASTIC.
4. THE RUNG OF THE STEP SHALL HAVE AN ANTI-SKID SURFACE.
5. ALL STEPS MUST BE APPROVED BY THE TESTING LABORATORY PRIOR TO USE.
6. ALL VIEWS ARE NOT TO SCALE AND ARE FOR DIMENSION PURPOSES ONLY.

③ TYPICAL STORM STRUCTURE STEP DETAIL
Not to Scale



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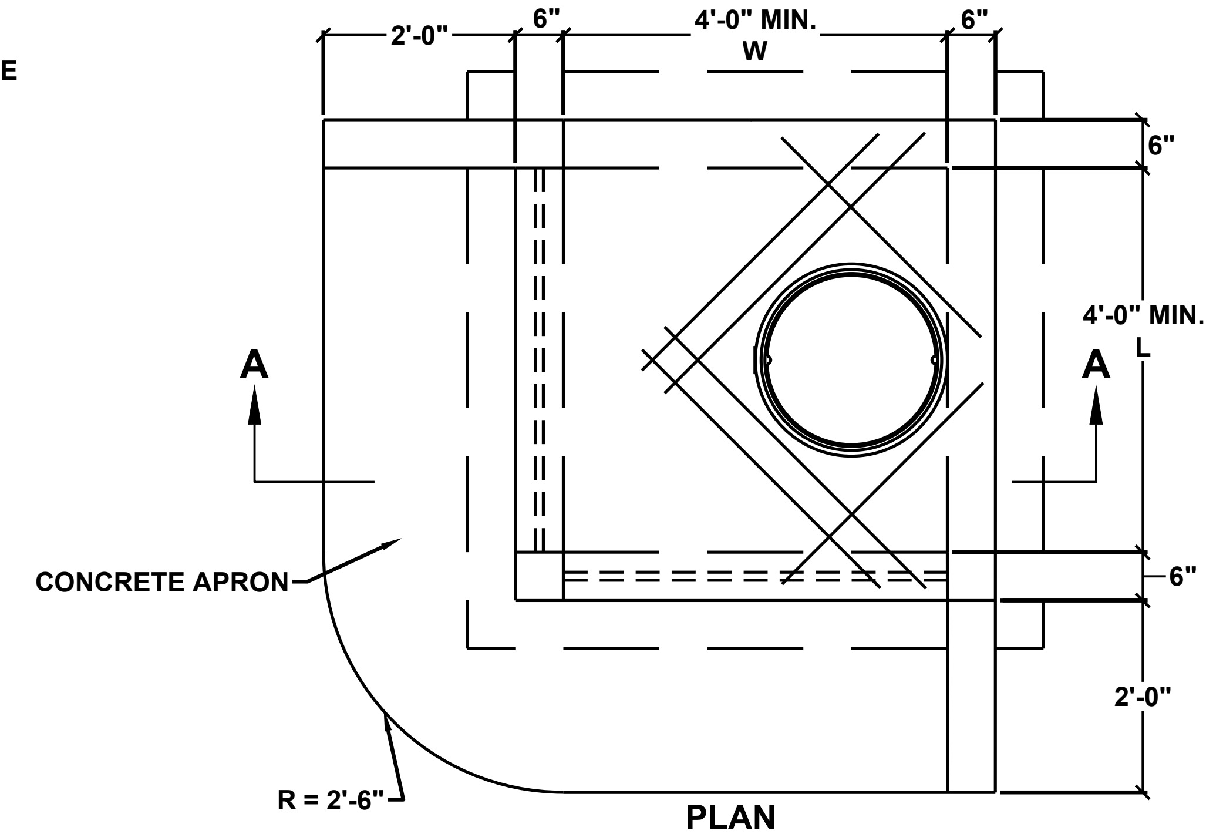
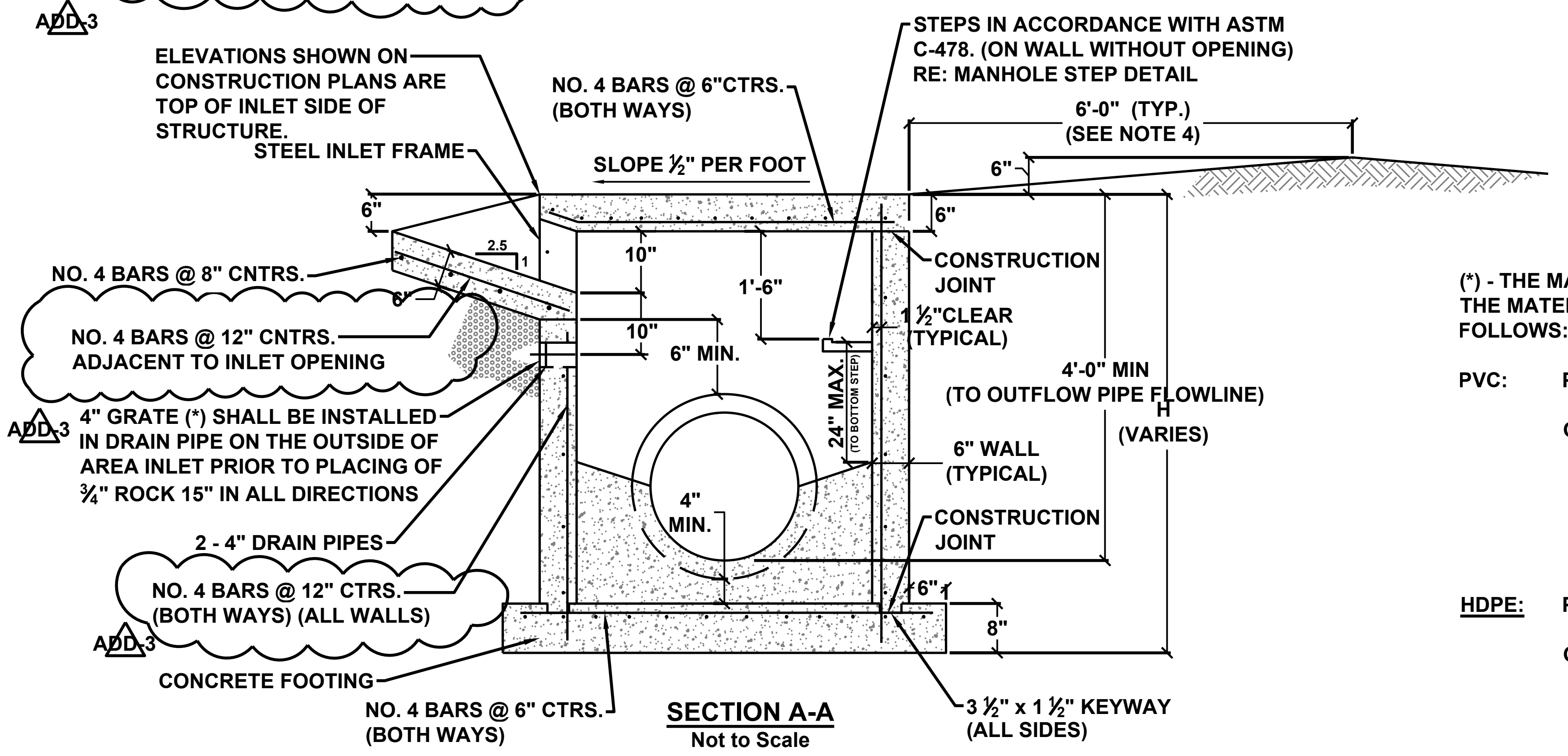


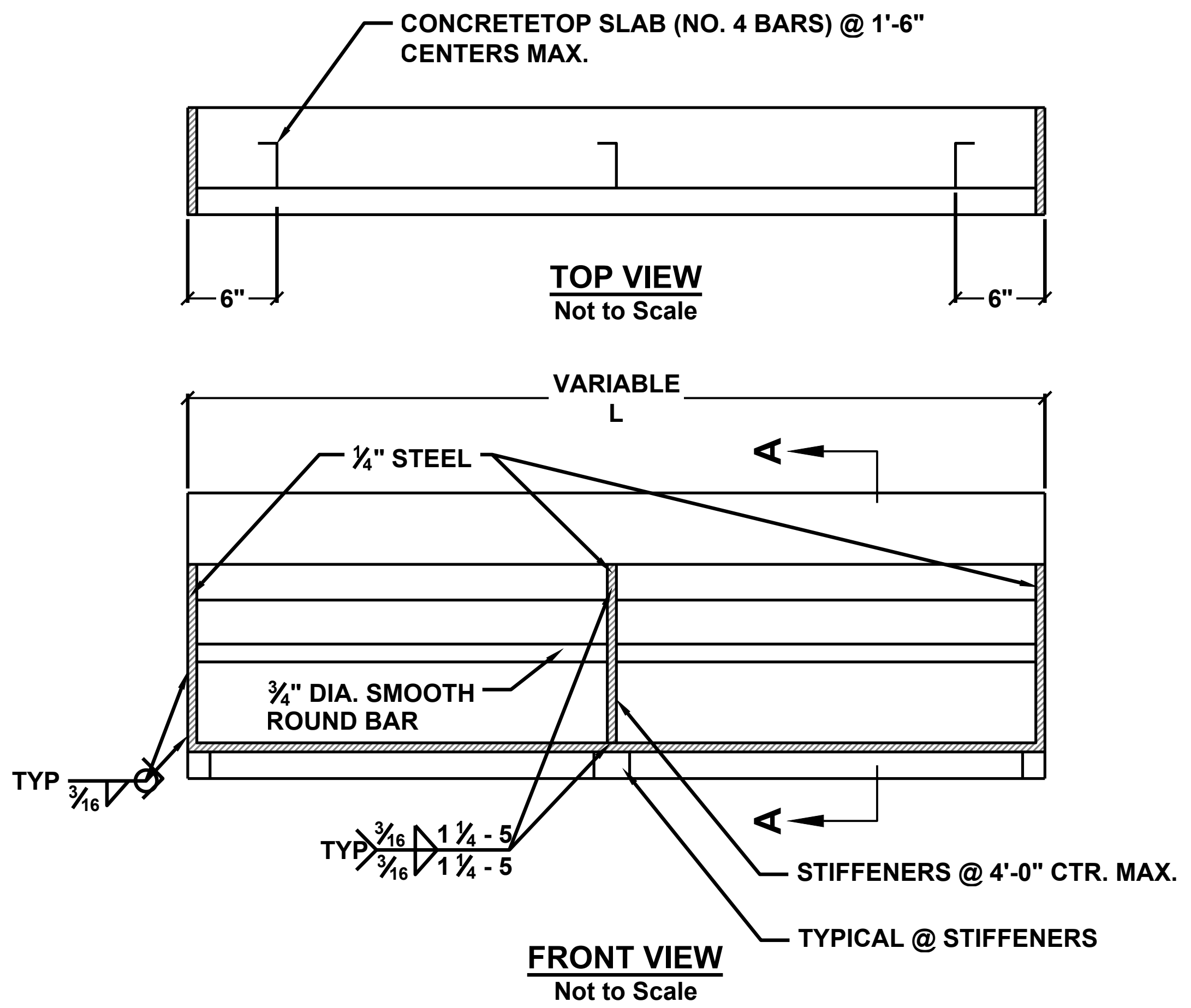
PLAN (W/ 2 ADJACENT OPENINGS)
Not to Scale



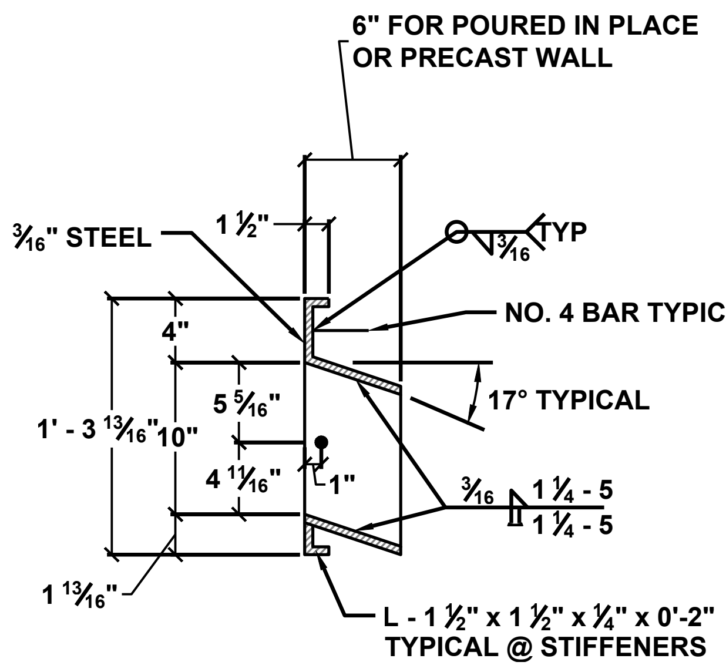
SECTION A-A
Not to Scale

(*) - THE MATERIAL OF THE GRATE SHALL MATCH THE MATERIAL OF THE PIPE AND SHALL BE AS FOLLOWS:

PVC:	PIPE -	4" SCHEDULE 40 PVC MEETING ASTM 1785
	GRATE -	4" PVC SNAP-IN DRAIN - MEETS ASTM D-2665, WITH STAINLESS STEEL (TYPE 304) COVER, MOUNTED WITH TWO 18-8 STAINLESS STEEL SCREWS; MAXIMUM OPENING SIZE ¼".
HDPE:	PIPE -	4" HDPE MEETING AASHTO M252, TYPE S;
	GRATE -	4" HDPE - MEETS ASTM D-3350; MAXIMUM OPENING SIZE ¼"



FRONT VIEW
Not to Scale



STEEL INLET FRAME NOTES

1. ALL WELDS SHALL BE PERFORMED IN ACCORDANCE WITH APPROPRIATE AWS SPECIFICATIONS AND PROCEDURES.
2. ALL WELDS ON EXPOSED SURFACES SHALL BE DRESSED SO AS TO PROVIDE A PLEASING FINISHED APPEARANCE.
3. ALL FLAT STEEL SHALL BE 7 GAGE OR 3/16" THICK
4. THE ENTIRE FRAME SHALL BE HOT DIP ZINC COATED IN ACCORDANCE WITH ASTM A-123.

INLET NOTES

GENERAL:

1. ALL STORM SEWER STRUCTURES SHALL BE PRE-CAST OR POURED IN PLACE.
2. PRE-CAST SHOP DRAWINGS ARE TO BE APPROVED BY THE ENGINEER.
3. ANY QUESTIONS REGARDING DIMENSIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO CONSTRUCTION.
4. BERM LOCATION AND ELEVATION MAY VARY. SEE GRADING PLAN FOR EXACT LOCATION.
5. THE FIRST DIMENSION LISTED IN THE CONSTRUCTION NOTES IS THE "L" DIMENSION. THE SECOND DIMENSION IS THE "W" DIMENSION. THE CONCRETE THICKNESS AND REINFORCEMENT SHOWN IS FOR BOXES WITH ("L"+"H") AND ("W"+"H") LESS THEN OR EQUAL TO 20. FOR BOXES WITH EITHER OF THESE CALCULATIONS GREATER THAN 20, A SPECIAL DESIGN IS REQUIRED.

CONCRETE:

6. CONCRETE USED SHALL CONFORM TO SPECIFICATIONS.
7. INLET FLOORS SHALL BE SHAPED WITH NON-REINFORCED CONCRETE INVERTS TO PROVIDE SMOOTH FLOW.
8. BEVEL ALL EXPOSED EDGES WITH ¾" TRIANGULAR MOLDING.

REINFORCING STEEL:

9. REINFORCING STEEL SHALL BE NEW BILLET, MINIMUM GRADE 60 AS PER ASTM A615, AND SHALL BE BENT COLD.
10. ALL DIMENSIONS RELATIVE TO REINFORCING STEEL ARE TO CENTERLINE OF BARS. 2" CLEARANCE SHALL BE PROVIDED THROUGHOUT UNLESS NOTED OTHERWISE. TOLERANCE OF +/- ⅛" SHALL BE PERMITTED.
11. ALL LAP SPLICES NOT SHOWN SHALL BE A MINIMUM OF 40 BAR DIAMETERS IN LENGTH.
12. ALL REINFORCING STEEL SHALL BE SUPPORTED ON FABRICATED STEEL BAR SUPPORTS @ 3'-0" MAXIMUM SPACING.
13. ALL DOWELS SHALL BE ACCURATELY PLACED AND SECURELY TIED IN PLACE PRIOR TO PLACEMENT OF BOTTOM SLAB CONCRETE. STICKING OF DOWELS INTO FRESH OR PARTIALLY HARDENED CONCRETE WILL NOT BE ACCEPTABLE.

CONSTRUCTION:

14. THE BOTTOM SLAB SHALL BE AT LEAST 24 HOURS OLD BEFORE PLACING SIDEWALL CONCRETE. ALL SIDEWALL FORMS SHALL REMAIN IN PLACE A MINIMUM OF 24 HOURS AFTER SIDEWALLS ARE POURED BEFORE REMOVAL, AND AFTER REMOVAL SHALL BE IMMEDIATELY TREATED WITH MEMBRANE CURING COMPOUND.
15. PIPE CONNECTIONS TO PRE-CAST STRUCTURES SHALL HAVE A MINIMUM OF 6" OF CONCRETE AROUND THE ENTIRE PIPE WITHIN 2' OF THE STRUCTURE.
16. MATERIAL SELECTION AND COMPACTION REQUIREMENTS FOR BACKFILL AROUND STRUCTURES SHALL BE AS SPECIFIED IN THE MANUAL OF INFRASTRUCTURE STANDARDS, AS PROMULGATED BY THE ENGINEER.

② AREA INLET DETAIL
Not to Scale

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JOHN D. CHAMBERLIN
2-9-21
29484

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DETAILS-3

C10.03