

GENERAL NOTES:

1. **REFERENCED SPECIFICATIONS**
ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE APPLICABLE SECTIONS OF THE FOLLOWING EXCEPT AS MODIFIED HEREIN OR ON THE PLANS:
 - STANDARD SPECIFICATIONS FOR SEWER AND WATER MAIN CONSTRUCTION IN ILLINOIS, 8TH EDITION (STANDARD SPECIFICATIONS), FOR INSTALLATION OF SEWERS.
 - STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022 BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION (IDOT STANDARD SPECIFICATIONS) RIGHT OF WAYS.
 - CITY OF ELGIN ORDINANCES, REQUIREMENTS AND STANDARD DETAIL SHALL GOVERN IN THE EVENT OF CONFLICTING SPECIFICATIONS.
 - STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL PUBLISHED BY ILLINOIS ENVIRONMENTAL PROTECTION AGENCY.
 - ILLINOIS URBAN MANUAL FOR SOIL EROSION CONTROL PRACTICES
2. **NOTIFICATION**
IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE FOLLOWING:
 - CITY OF ELGIN 48 HOURS PRIOR TO COMMENCEMENT OF CONSTRUCTION.
 - THE ELECTRIC, COMMUNICATIONS AND GAS UTILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
3. **PERMITS**
OWNER SHALL SECURE PERMITS AS FOLLOWS AND COMPLY WITH ALL REQUIREMENTS OF THE PERMITS:
 - CITY OF ELGIN
4. **QUANTITIES**
THE CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL QUANTITIES AS INDICATED ON THE PLANS. THE QUANTITIES WHICH ARE INDICATED ARE FOR BIDDING PURPOSES ONLY AND MUST BE VERIFIED. ANY DISCREPANCIES ARE TO BE REPORTED TO THE DESIGN ENGINEER.
5. **EXAMINATION OF THE SITE**
THE CONTRACTOR IS RESPONSIBLE FOR EXAMINING ALL SITE CONDITIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION AND IS TO COMPARE THE SITE CONDITIONS AS INDICATED ON THE ENGINEERING PLANS.
6. **INDEMNIFICATION**
THE CONTRACTOR(S) SHALL INDEMNIFY THE ENGINEER AND THEIR AGENTS, CITY OF ELGIN AND THEIR AGENTS FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION AND TESTING OF THIS WORK ON THIS PROJECT.
7. **LOCATION OF EXISTING UNDERGROUND UTILITIES**
THE LOCATION OF VARIOUS EXISTING UNDERGROUND UTILITIES WHICH ARE SHOWN ON THE PLANS ARE FOR INFORMATION ONLY AND REPRESENT THE BEST KNOWLEDGE OF THE ENGINEER. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY THEIR LOCATIONS AND ELEVATIONS PRIOR TO THE CONSTRUCTION OPERATIONS.
8. **DAMAGE TO PROPERTY**
ANY EXISTING PAVEMENT, SIDEWALK, DRIVEWAYS, ETC., DAMAGED BY THE CONTRACTOR'S OPERATIONS AND NOT CALLED FOR IN THE CONTRACT TO BE REMOVED SHALL BE REPLACED AT THE EXPENSE OF THE CONTRACTOR.
9. **CONTRACTOR TO VERIFY ELEVATIONS**
THE CONTRACTOR SHALL VERIFY ALL ELEVATIONS PRIOR TO THE START OF WORK AND, IF THERE ARE ANY DISCREPANCIES, IS TO NOTIFY THE ENGINEER AT ONCE. NO WORK SHALL BE DONE UNTIL THE DISCREPANCY IS RESOLVED.
10. **EROSION AND SEDIMENTATION CONTROL**
THE CONTRACTOR SHALL PROVIDE CONTROL FACILITIES SHOWN ON THE PLANS TO CONTROL EROSION AND SEDIMENTATION. ADDITIONAL MEASURES MUST BE UNDERTAKEN AS REQUIRED TO ACCOMMODATE SPECIAL CONDITIONS THAT ARISE DURING THE INSTALLATION OF THE FACILITIES. THE CONTRACTOR SHALL ALSO PROVIDE SUCH EROSION AND SEDIMENTATION CONTROL AS IS NECESSARY TO MEET THE REQUIREMENTS OF THE REFERENCED SPECIFICATIONS.

12. **WATER MAIN**
 - a) PIPE MATERIALS FOR WATER MAIN SERVICE SHALL BE COPPER TY-K AND A MINIMUM WORKING PRESSURE OF 150 PSI.
MINIMUM COVER SHALL BE 5.5' AND MAXIMUM COVER 8.0'.
 - b) FIRE HYDRANTS, VALVES AND SERVICES SHALL BE INSTALLED ACCORDING TO STANDARD SPECIFICATIONS AND CURRENT CITY OF ELGIN STANDARDS AND DETAILS.
 - c) VALVES AND VALVE VAULTS SHALL BE IN ACCORDANCE WITH DETAILS SHOWN ON THE PLANS AND THE REQUIREMENTS OF THE CITY OF ELGIN.
 - d) TESTING AND CHLORINATION - ALL PIPE SHALL BE SUBJECTED TO PRESSURE AND LEAKAGE TESTING IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS AND THE REFERENCED SECTIONS OF THE AWWA STANDARDS. THE PRESSURE TEST PERIOD SHALL BE 2 HOURS AT 125 PSI, INCLUDING THE SERVICE LINE UP TO THE SERVICE VALVE.
 - e) BACKFILL MATERIAL AND COMPACTION - SEE DETAIL SHEET 9 TYPICAL TRENCH CROSS SECTION.
 - f) AN 8' - 4" X 4" POST WITH 30" MIN. EXPOSED TO BE PLACED NEXT TO B-BOX AT TIME OF INSTALLATION, AND PAINTED BLUE. PIGTAIL ENDS TO BE MARKED IN A SIMILAR MANNER.
 - g) CASING PIPE: THE CASING PIPE SHALL BE PVC PIPE OF A PIPE MATERIAL CONFORMING TO AWWA C909.
13. **RIGHTS OF THE CITY OF ELGIN**
THE CITY OF ELGIN WATER AND SEWER DEPARTMENT SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.

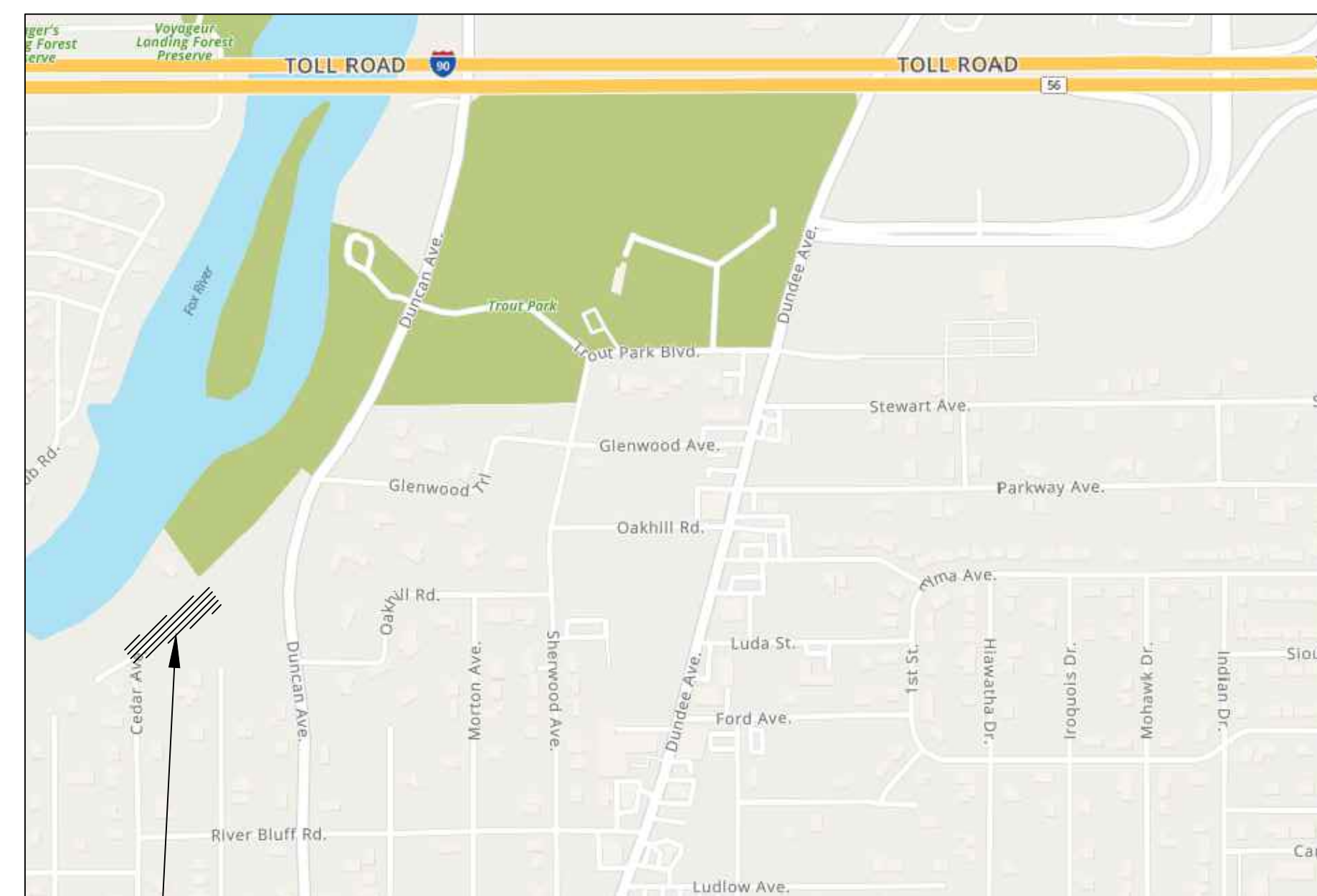
THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE CITY OF ELGIN. THE CONSTRUCTION DETAILS, AS PRESENTED ON THE PLANS, MUST BE FOLLOWED BY THE CONTRACTORS. PROPER CONSTRUCTION TECHNIQUES MUST BE FOLLOWED ON THOSE IMPROVEMENTS INDICATED ON THE ENGINEERING PLAN.
14. **AS-BUILT DRAWINGS**
THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE ENGINEER WITH AS-BUILT CONDITIONS OF THE IMPROVEMENTS. ANY CHANGES TO THE PLANS OR ADDITIONAL ITEMS MUST BE REPORTED TO THE ENGINEER AS WORK PROGRESSES.

THE CITY OF ELGIN MUST BE FURNISHED A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS OF THE SANITARY SEWERS AND WATER MAIN CONSTRUCTED FOR A PROJECT WITHIN 60 DAYS OF COMPLETION OF THE SANITARY SEWERS AND WATER MAINS. SANITARY SERVICES AND B-BOX LOCATIONS SHALL ALSO BE PROVIDED ON THE AS-BUILT DRAWINGS.

ALL STORMWATER FACILITIES SHALL BE INCLUDED IN THE AS-BUILT DRAWINGS

A SET OF AS-BUILT DRAWINGS SHALL ALSO BE FURNISHED TO THE CITY OF ELGIN.
15. **CITY OF ELGIN NOTIFICATION**
THE SANITARY SEWER AND WATER MAIN IMPROVEMENT ARE TO BE CONNECTED TO THE CITY OF ELGIN EXISTING SYSTEMS. THE CONTRACTOR SHALL NOTIFY THE CITY OF ELGIN ENGINEERING DEPARTMENT 48 HOURS PRIOR TO PERFORMING ANY WORK RELATED TO THE CONNECTION TO THE EXISTING SYSTEMS AND CONFORM TO ANY AND ALL ELGIN STANDARDS AND REQUIREMENTS.
16. NO REPAIR SLEEVES ARE ALLOWED ON NEW CONSTRUCTION OF UNDERGROUND UTILITIES.
17. SELECTED GRANULAR BACKFILL MATERIAL SHALL BE APPROVED BY THE ENGINEER. REFER TO CITY STANDARD DETAIL.
18. ALL FIELD TILES TO BE CONNECTED TO STORM SEWER SYSTEM WHEN FOUND. INCLUDING TILES THAT ARE NOT SHOWN ON THE PLANS
19. DUST CONTROL WATERING TO BE PROVIDED AS DIRECTED BY THE CITY OF ELGIN. A WATER TRUCK MUST BE AVAILABLE WITHIN 2 HOURS NOTICE.

ELGIN, ILLINOIS
FINAL ENGINEERING IMPROVEMENT PLANS FOR
1260, 1262, 1264 CEDAR AVE
SANITARY AND WATER SERVICE CONNECTION



PROJECT LOCATION
LOCATION MAP:
N.T.S.

CONTACTS

CITY OF ELGIN
Community Development Group, 847-931-5920
150 Dexter Court
Elgin, IL 60120-5555

Public Works Department, 847-697-3160
Engineering Division, 847-931-5955
1900 Holmes Road
Elgin, IL 60120-1200

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY (IEPA)
Main Number 217-782-3397
Water Pollution Control Division 217-782-0610
Public Water Supply Division 217-782-9470
1021 N. Grand Avenue East
P.O. Box 19276
Springfield, IL 62794-9276

Elgin Office 847-608-3131
595 South State
Elgin, IL 60123

FOX RIVER WATER RECLAMATION DISTRICT (FRWRD)
Raymond Street & Purity Drive
P. O. Box 328
Elgin, IL 60121-0328
847-742-2068

U. S. ARMY CORPS OF ENGINEERS - Chicago District
231 S. LaSalle Street, Suite 1500
Chicago, IL 60604
312-353-6400 Main
312-846-5530 Regulatory Branch

KANE-DUPAGE SOIL & WATER CONSERVATION DISTRICT
2315 Dean Street, Suite 100
St. Charles, IL 60175
630-584-7961 x3

COMED
350 S. Second Street
Elgin, IL 60123
847-608-2335

INDEX OF SHEETS

1. TITLE SHEET
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3. FRWRD NOTES AND UTILITY DETAILS
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8. CITY OF ELGIN - STANDARD DETAILS 1
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OWNER

Paul Sommer
1188 Cedar Ave
Elgin, IL, 60120-2253

CONTRACTOR

Ray Sakolari
37W904 US Hwy 20
Elgin, IL 60124
(847) 214-2944
ray@rayselectrical.com

CIVIL ENGINEER

Schefflow Engineers
1814 Grandstand Pl
Elgin, IL 60123
(847) 697-7095
office@scheffloweng.com

NICOR GAS
1844 Ferry Road
Naperville, IL 60563
630-983-8676

AT&T
255 E. Chicago Street
Elgin, IL 60120
847-888-6863

J.U.L.I.E.
Underground Utility Locations
1-800-892-0123
811

BENCHMARKS:

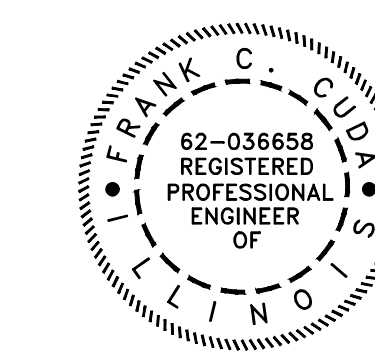
SITE BENCHMARK 1:
EXISTING RIM ELEVATION OF EXISTING
SANITARY MANHOLE
ELEVATION: 732.72 (NAVD 88)

SITE BENCHMARK 2:
TOP OF HYDRANT ON CEDAR AVENUE
ELEVATION: 753.15 (NAVD 88)



Drainage Statement
To the best of our knowledge and belief, the drainage of surface waters will not be changed by the construction of this subdivision or any part thereof, or, that if drainage will be changed, reasonable provision has been made for the collection and diversion of such surface waters in to the public areas, or drains approved for the use by the municipal engineer, and that such surface waters are planned for in accordance with generally accepted engineering practices so as to reduce the likelihood of damages to the adjoining property because of the construction of this subdivision.

Signature: *Frank C. Cuda* Date: 5/21/2024



11/25 5/21/24
LIC. EXP. DATE DATE
Frank C. Cuda
SIGNATURE

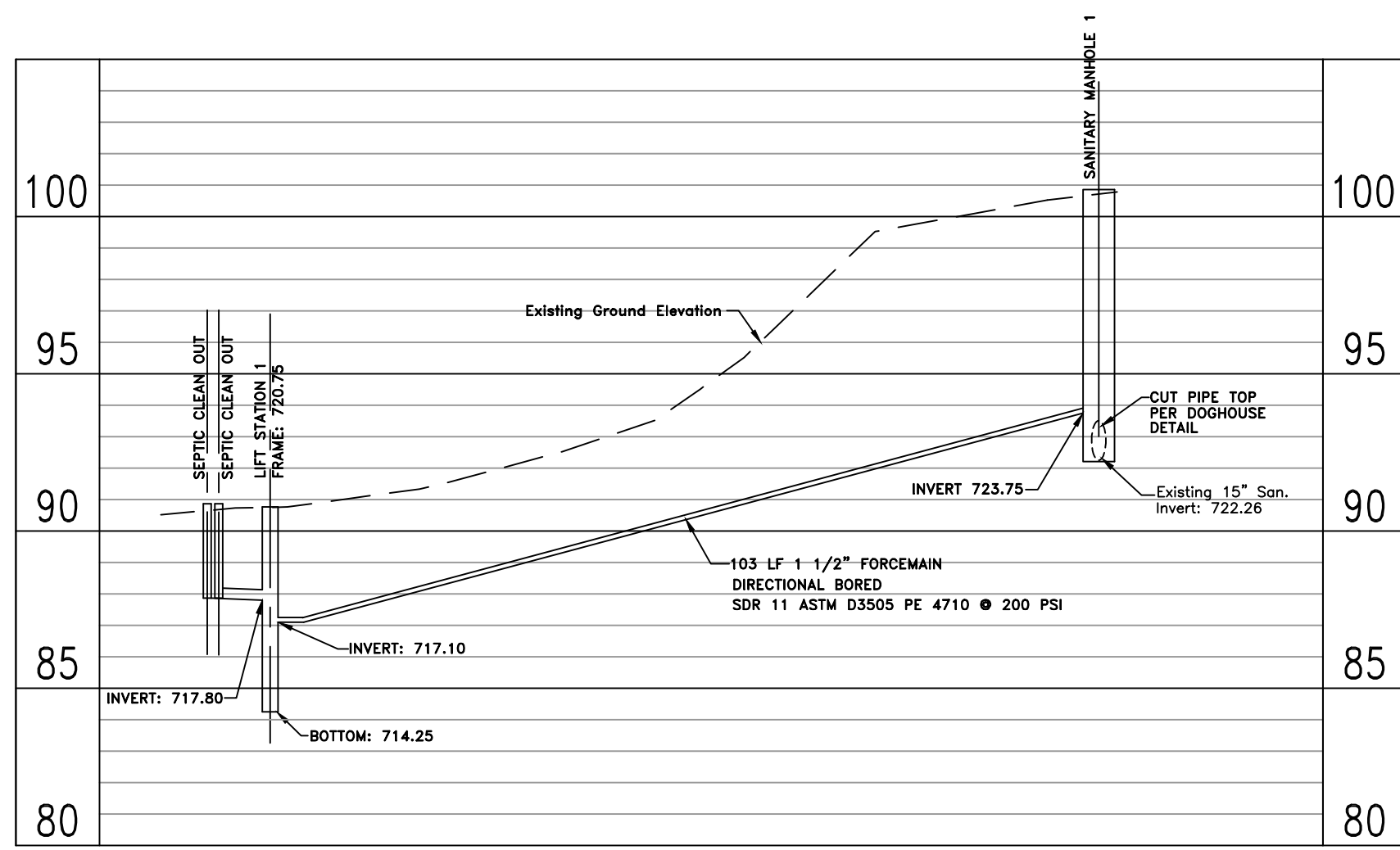
THE CITY OF ELGIN STANDARD DETAILS SUPERSEDE ANY OTHER DETAILS.

#	DATE	REMARKS
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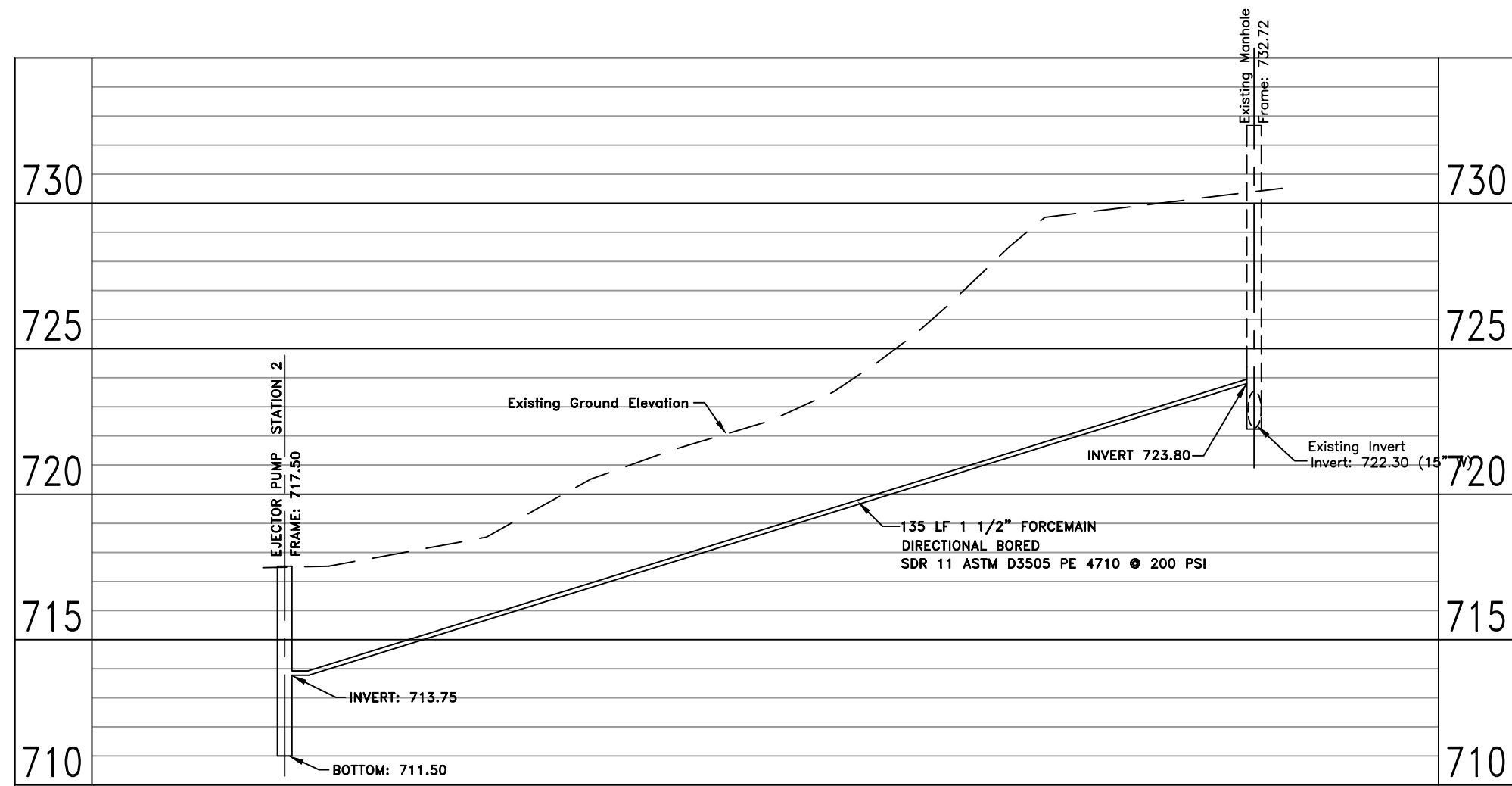
SCHEFFLOW engineers
1814 GRANDSTAND PLACE
ELGIN, ILLINOIS 60123
phone 847.697.7095
fax 847.697.7099
scheffloweng.com
Firm License No. 184-001104

ELGIN
1260, 1262, 1264 CEDAR AVE
ILLINOIS
TITLE SHEET

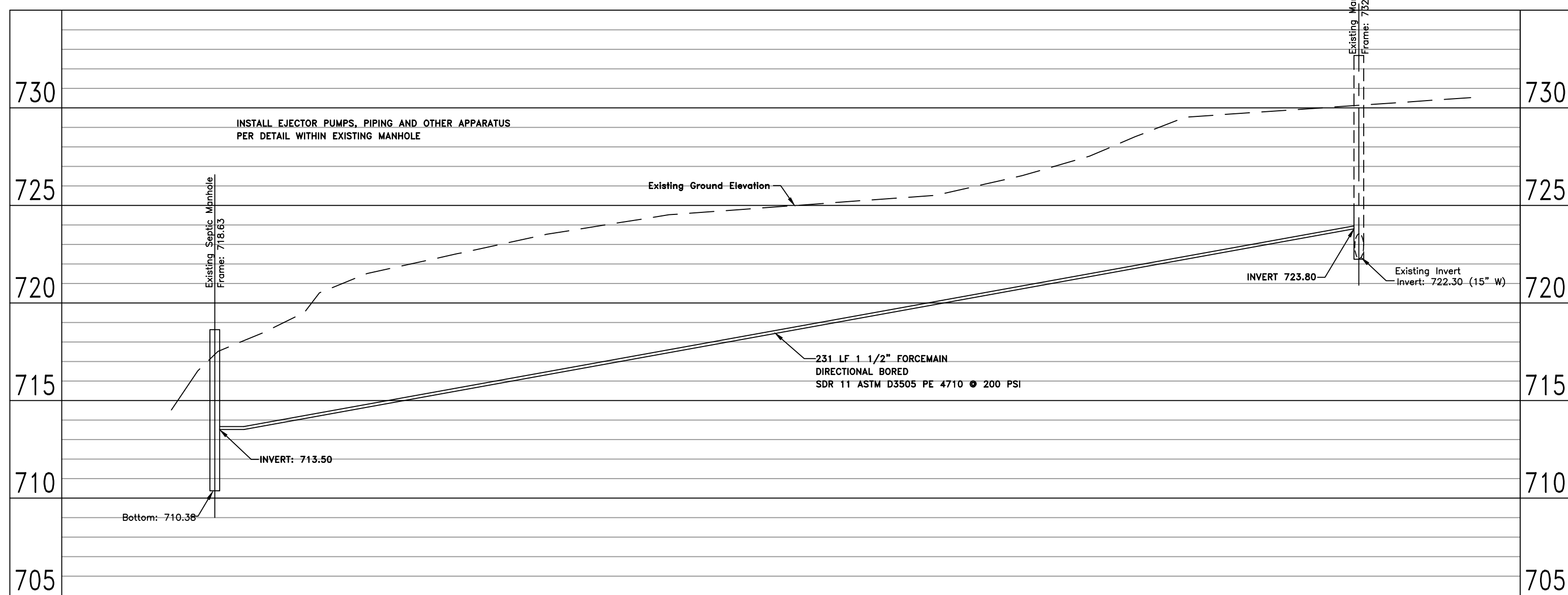
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PROFILE EJECTOR PUMP STATION 1



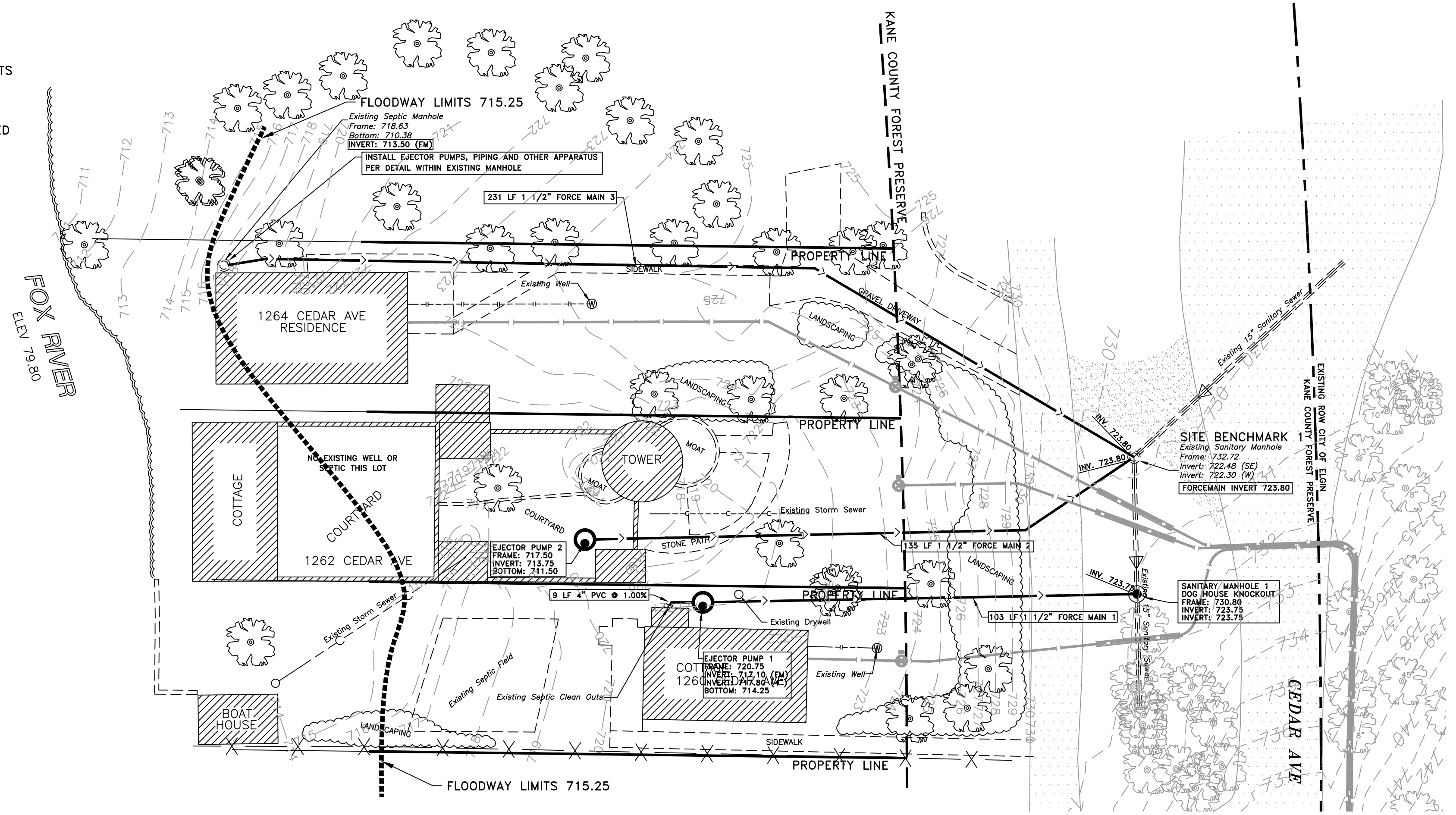
PROFILE EJECTOR PUMP STATION 2



PROFILE EJECTOR PUMP STATION 3

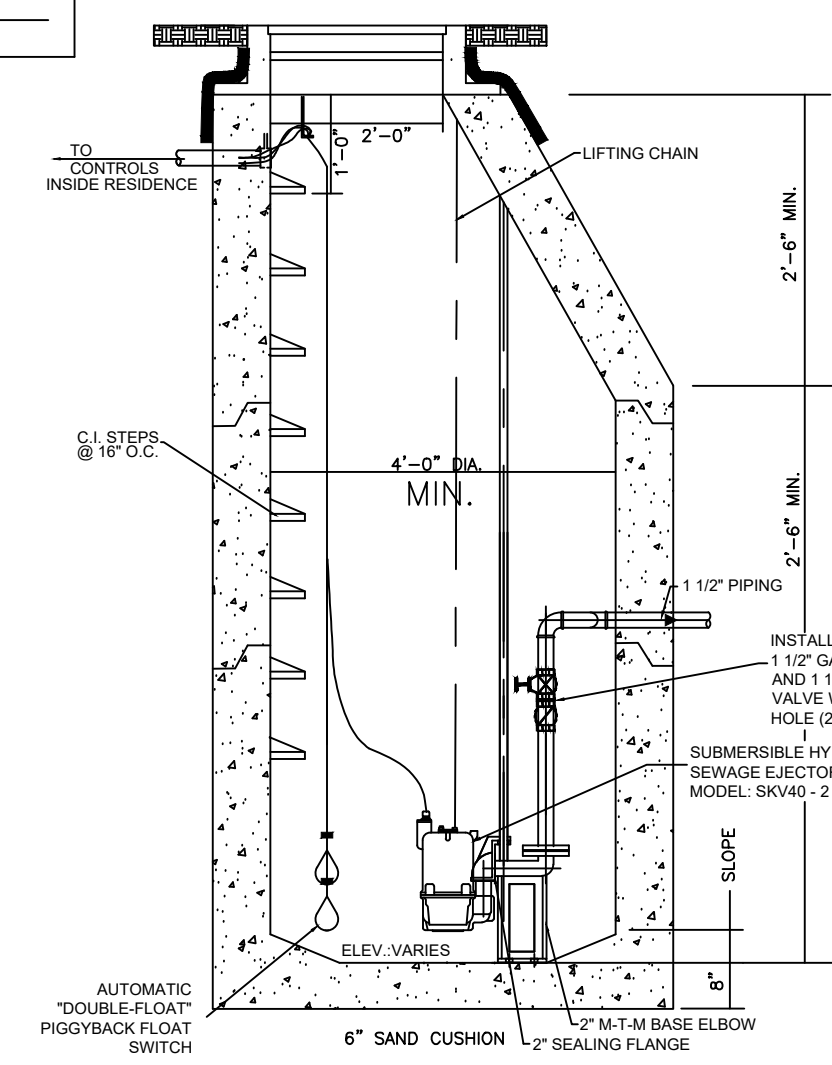
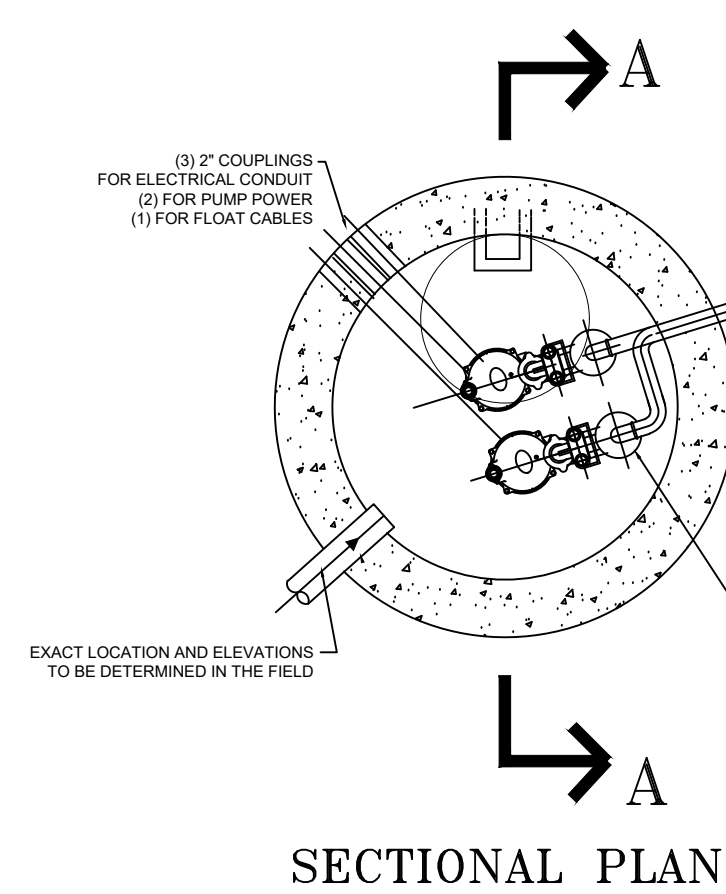
NOTE: FLOODWAY AND FLOODPLAIN LIMITS ARE THE SAME

NOTE: DISTURBED AREA TO BE RESTORED TO PRE-CONSTRUCTION CONDITION



DIRECTIONAL BORE ALL FORCE MAIN PIPING. LOCATION OF ALL BORE PITS TO BE REVIEWED AND APPROVED BY THE OWNER.

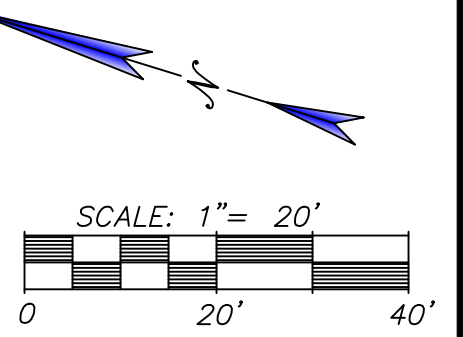
EJECTOR PUMP 3	EJECTOR PUMP 2	EJECTOR PUMP 1
EXISTING TANK	FRAME: 717.50	FRAME: 720.75
EXISTING TANK	INVERT: 713.50 (FM)	INVERT: 717.10 (FM)
EXISTING TANK	INVERT: 713.50 (FM)	INVERT: 717.89 (4")
EXISTING TANK	BOTTOM: 710.38	BOTTOM: 714.25
FLOAT LEVELS	FLOAT LEVELS	FLOAT LEVELS
ALARM LEVEL	ALARM LEVEL	ALARM LEVEL
ELEV.: 712.50	ELEV.: 713.00	ELEV.: 716.25
PUMPS ON	PUMPS ON	PUMPS ON
ELEV.: 712.00	ELEV.: 712.50	ELEV.: 715.75
PUMPS OFF	PUMPS OFF	PUMPS OFF
ELEV.: 710.75	ELEV.: 711.25	ELEV.: 714.50



EJECTOR PUMP DETAIL

CONTRACT PRICE FOR MANHOLE SHALL INCLUDE FURNISHING AND PLACING CAST IRON FRAME AND LID TO FINISHED GRADE OF EXISTING PAVEMENT, EXISTING GROUND SURFACE OR FINISHED GRADE AS ESTABLISHED BY THE ENGINEER.

MATERIALS:
 FRAME AND LID EQUAL TO NENMAY FOUNDRY CO. CATALOG NO. R-1712B WITH TYPE B LID - 1" CONCEALED PICK HOLE AND THE WORD "SANITARY" CAST IN LID.
 WALLS PRECAST REINFORCED CONCRETE RISER UNITS. MINIMUM THICKNESSES: 8" FOR 4'-0" INSIDE DIAMETER.
 BOTTOM PRECAST REINFORCED AND CAST INTEGRAL WITH FIRST VERTICAL SECTION.
 RISER JOINTS AND FRAME AND COVER ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES ON ALL UNDERGROUND STRUCTURES, SHALL BE SET IN PLACE WITH ONE OF THE FOLLOWING BUTYL RUBBER JOINT SEALANTS: CONCRETE PRODUCTS SUPPLY CO. - EZ STIK & HAMILTON-KENT GASKET CO. - KENT SEAL OR EQUAL, AS APPROVED BY DISTRICT ENGINEER AND ALL JOINTS TO BE TUCKPOINTED WITH HYDRAULIC CEMENT.
 ADJUSTMENT RINGS A MAXIMUM OF 8" OF ADJUSTMENT RINGS MAY BE USED.
 STEPS STEPS SHALL BE MADE OF STEEL REINFORCED PLASTIC USING AN APPROVED PLASTIC MEETING ASTM D4101, TYPE II, GRADE 49108, OVER #3 GRADE 60, ASTM A615, REINFORCING BAR. STEPS SHALL BE AT 16" CENTERS.
 CHIMNEY SEALS SHALL BE CANUSA WRAPID SEAL MANHOLE ENCAPSULATION SYSTEM, OR ADATOR INC. SYSTEM APPROVED BY UTILITY SUPERINTENDENT WHICH WILL CAPTURE AT LEAST 4" OF FRAME, ALL ADJUSTING RINGS AND 4" OF PRECAST ECCENTRIC CONE SECTION.
 PIPE CONNECTION ALL SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED WITH FLEXIBLE MANHOLE COUPLING AS MANUFACTURED BY INTERPACE CORPORATION (LOCKJOINT FLEXIBLE MANHOLE SLEEVE) PRESS-SEAL GASKET CORPORATION (PRESS WEDGE II), OR EQUAL, AS APPROVED BY DISTRICT ENGINEER. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL COMPLY WITH THOSE SPECIFIED BY THE MANUFACTURER OR DISTRICT ENGINEER.
 ALL EXTERIOR SURFACES SHALL HAVE A BITUMINOUS COATING FACTORY APPLIED.



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SANITARY - FORCE MAIN

SCALE	DATE
1"=20'	3/19/24
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FRWRD - MINIMUM PROJECT SPECIFICATION REQUIREMENTS

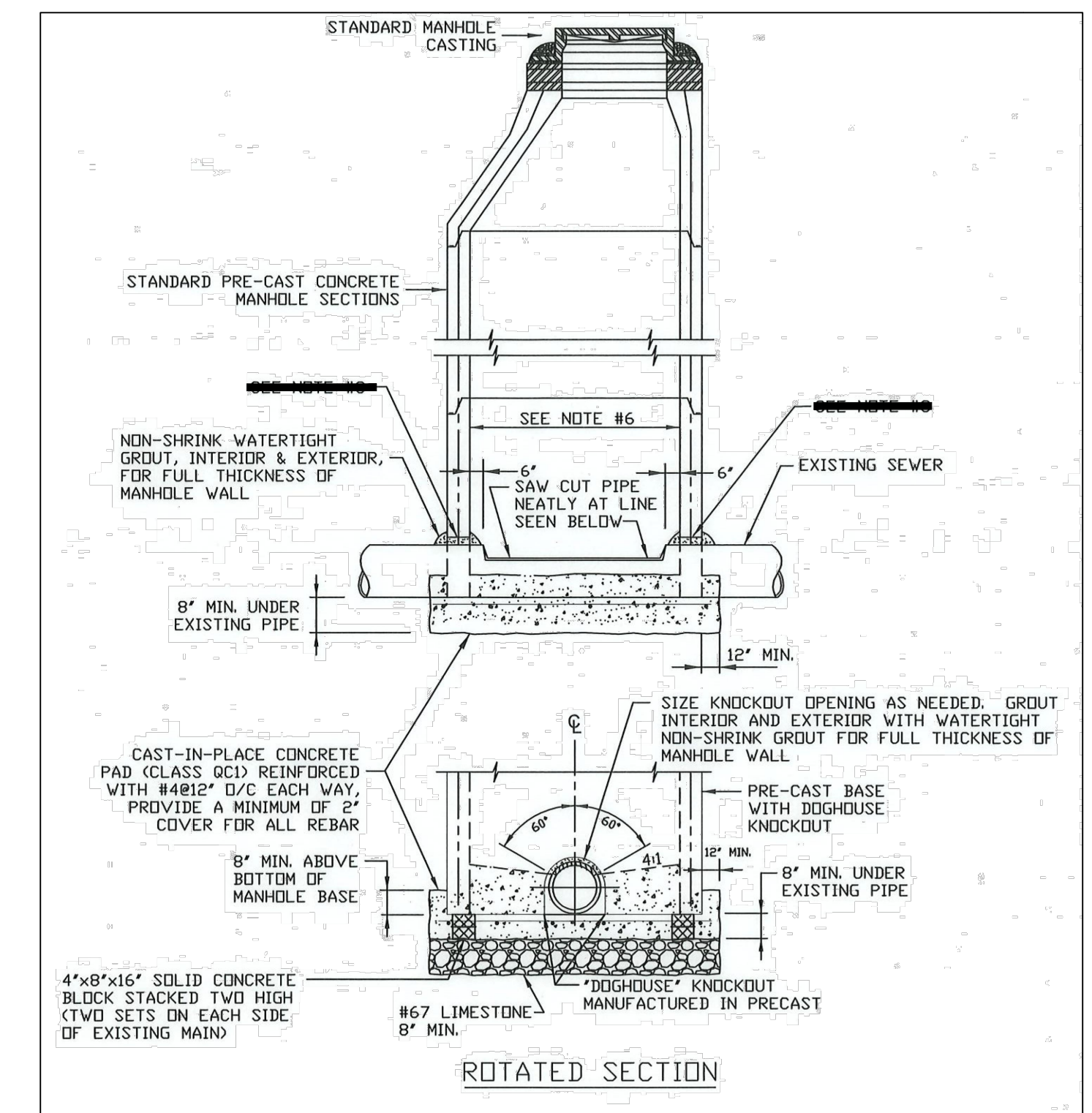
1. THE PROPOSED IMPROVEMENTS SHALL BE CONSTRUCTED ACCORDING TO THE ORDINANCE AND REQUIREMENTS OF THE "STATE STANDARD SPECIFICATION FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" CURRENT EDITION, AND THE FOX RIVER WATER RECLAMATION DISTRICT.
2. THE CONTRACTOR SHALL NOTIFY THE FOX RIVER WATER RECLAMATION DISTRICT 48 HOURS PRIOR TO START OF THE CONSTRUCTION TO ARRANGE FOR APPROPRIATE CONSTRUCTION INSPECTION .
3. THE FOX RIVER WATER RECLAMATION DISTRICT SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE, AND REJECT THE CONSTRUCTION IMPROVEMENTS.
4. THE CONTRACTOR(S) SHALL INDEMNIFY THE FOX RIVER WATER RECLAMATION DISTRICT, THEIR AGENTS ETC. , FROM ALL LIABILITY INVOLVED WITH THE CONSTRUCTION, INSTALLATION AND TESTING OF THIS WORK ON THIS PROJECT.
5. THE PROPOSED IMPROVEMENTS MUST BE CONSTRUCTED IN ACCORDANCE WITH THE ENGINEERING PLANS AS APPROVED BY THE FRWRD .
6. SANITARY MANHOLE FRAMES SHALL BE NEENAH R-1772 WITH TYPE B SELF-SEALING RUBBER GASKET COVER WITH CONCEALED PICK HOLES OR EQUAL WITH THE WORD "SANITARY" CAST IN THE COVER.
7. THE EXTERIOR OF THE PROPOSED MANHOLES SHALL BE WATERPROOFED WITH A BITUMASTIC MATERIAL AS PER FRWRD ORDINANCE NO. 323, ARTICLE 4, SECTION 16.
8. ALL JOINTS BETWEEN PRE-CAST ELEMENTS, ADJUSTING RINGS AND MANHOLE FRAMES ON ALL UNDERGROUND STRUCTURES, SHALL BE SET IN PLACE WITH ONE OF THE FOLLOWING BUTYL RUBBER JOINT SEALANTS:
CONCRETE PROJECTS SUPPLY CO. - EZ STIKS
HAMILTON-KENT GASKET CO. - KENT SEAL
OR EQUAL, AS APPROVED BY THE DISTRICT ENGINEER, AND ALL JOINTS TO BE TUCKPOINTED WITH HYDRAULIC CEMENT OR MORTAR WITH A BRUSH FINISH. ALL JOINTS BETWEEN ADJUSTING RINGS , AND MANHOLE FRAMES TUCKPOINTED WITH HYDRAULIC CEMENT OR MORTAR WILL NOT BE ACCEPTED BY FRWRD.
9. ALL SANITARY SEWER MANHOLES SHALL BE CONSTRUCTED WITH FLEXIBLE MANHOLE COUPLING, AS MANUFACTURED BY INTERPACE CORPORATION (LOCKJOINT FLEXIBLE MANHOLE SLEEVE) , PRESS-SEAL GASKET CORPORATION (PRESS WEDGE II) , OR EQUAL AS APPROVED BY THE DISTRICT ENGINEER. ALL MATERIALS AND INSTALLATION PROCEDURES SHALL COMPLY WITH THOSE SPECIFIED BY THE MANUFACTURER.
10. A WATER-TIGHT PERMANENT MASONRY BULKHEAD SHALL BE INSTALLED IN THE DOWNSTREAM SEWER PIPE AT THE POINT OF SEWER CONNECTION PRIOR TO COMMENCING ANY SEWER CONSTRUCTION . THE BULKHEAD SHALL REMAIN IN PLACE UNTIL REMOVAL IS AUTHORIZED BY THE FOX RIVER WATER RECLAMATION DISTRICT AFTER THE SANITARY SEWERS HAVE BEEN TESTED AND ACCEPTED.
11. THE CONTRACTOR SHALL TAKE MEASURES TO PREVENT ANY UNPOLLUTED

WATER SUCH AS GROUND AND SURFACE WATER FROM ENTERING THE EXISTING SANITARY SEWERS .

12. THE CONTRACTOR SHALL BE PROHIBITED FROM DISCHARGING ANY UNPOLLUTED WATER INTO THE SANITARY SEWER SYSTEM FOR THE PURPOSE OF SEWER FLUSHING OR FLOATING LINES FOR THE DEFLECTION TEST WITHOUT PRIOR APPROVAL FROM THE FOX RIVER WATER RECLAMATION DISTRICT.
13. ALL SEWERS, INCLUDING TRUNK LINE SEWERS AND LATERAL SEWERS, THAT WILL DISCHARGE SEWAGE FOR TREATMENT BY THE FOX RIVER WATER RECLAMATION DISTRICT, SHALL BE INSTALLED UNDER THE SUPERVISION OF A FULL TIME RESIDENT ENGINEER. NO WORK SHALL BE DONE IN THE ABSENCE OF THE RESIDENT ENGINEER.
14. THE DISTRICT SHALL HAVE THE RIGHT TO APPROVE THE SELECTION OF A RESIDENT ENGINEER. THE DISTRICT SHALL HAVE THE RIGHT TO REQUEST A SUBSTITUTE RESIDENT ENGINEER IN THE EVENT OF UNSATISFACTORY PERFORMANCE BY THE RESIDENT ENGINEER.
15. THE RESIDENT ENGINEER ON ANY SEWER CONSTRUCTION PROJECT SHALL PROVIDE THE DISTRICT WITH DAILY REPORTS NO LESS THAN EVERY TWO (2) WEEKS.
16. ALL NEW SANITARY SEWERS SHALL BE PRESSURE TESTED TO THE PROCEDURE OUTLINED IN THE "SPECIFICATIONS FOR LOW PRESSURE AIR TESTS OF THE SANITARY SEWERS" AVAILABLE AT THE FOX RIVER WATER RECLAMATION DISTRICT OFFICE. THE DISTRICT MAY REQUIRE SUCH OTHER TEST AS CONDITIONS MAY REQUIRE.
17. THE COST OF PROVIDING RESIDENT ENGINEERING AND PRESSURE TESTING SHALL BE BORNE BY THE OWNER OR DEVELOPER .
18. THE FOX RIVER WATER RECLAMATION DISTRICT MUST BE FURNISHED A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS OF THE SANITARY SEWERS CONSTRUCTED FOR A PROJECT WITHIN 60 DAYS OF COMPLETION OF THE SEWERS.
19. SANITARY SEWER MANHOLES WITH INTERNAL DROPS TWO FEET OR LESS SHALL HAVE A PRECAST CONCRETE TROUGH BUILT IN THE STRUCTURE TO OBTAIN A SMOOTH FLOW TRANSITION FROM THE UPSTREAM PIPE INVERT TO THE DOWNSTREAM PIPE INVERT .
20. ALL MANHOLES AND STRUCTURES SHALL BE CLEANED OF ANY ACCUMULATION OF SILT, DEBRIS, OR FOREIGN MATTER OF ANY KIND, AND SHALL BE FREE FROM SUCH ACCUMULATIONS AT THE TIME OF FINAL INSPECTION. ALL MANHOLES AND STRUCTURES SHALL BE INSPECTED BY THE FRWRD PRIOR TO ACCEPTANCE.

Fox River **Water Reclamation** District Minimum Requirements for Manhole Structures

1. Sanitary manhole lid must have concealed pick holes and have the word "SANITARY" stamped in the cover with an intact rubber gasket seal.
2. The frame lip shall be cleaned of all mud and debris to provide a watertight seal between the frame and the manhole cover gasket.
3. In **non-paved** areas - ***ONLY*** butyl rubber joint sealant shall be used between all joints, adjusting rings and manhole frames.
4. In **paved** areas - all sanitary structures are to be adjusted with a full mortar bed along with a six inch minimum concrete collar encasing the frames, all adjusting rings, and the top three inches of the cone or down to the flat top.
5. All steps must be installed, aligned and clean.
6. The barrel section joints **must be** tuckpointed with hydraulic cement or mortar with a brush finish.
7. All pinholes must be mortared with a brush finish to provide a watertight seal.
8. The upstream and downstream pipe cavities must be filled with mortar and smoothed with a brush finish.
9. The upstream and downstream flow lines (inverts) shall have a smooth transition from the pipe to the manhole invert.
10. All manhole structures shall be free of any type of infiltration (water leaking into the structure).
11. If there is an internal drop in the structure there must be a smooth transition from the pipe to the invert (i.e. channel the flow from the pipe to the manhole invert).
12. All manholes shall be cleaned of any accumulation of silt, debris, or foreign matter of any kind, and shall be free from such accumulations at the time of final inspection.
13. Manholes in the parkway shall have a final frame elevation which is curb height or higher.



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1	3-20-24	PER FRWRD REVIEW
2	5-21-24	PER CITY REVIEW

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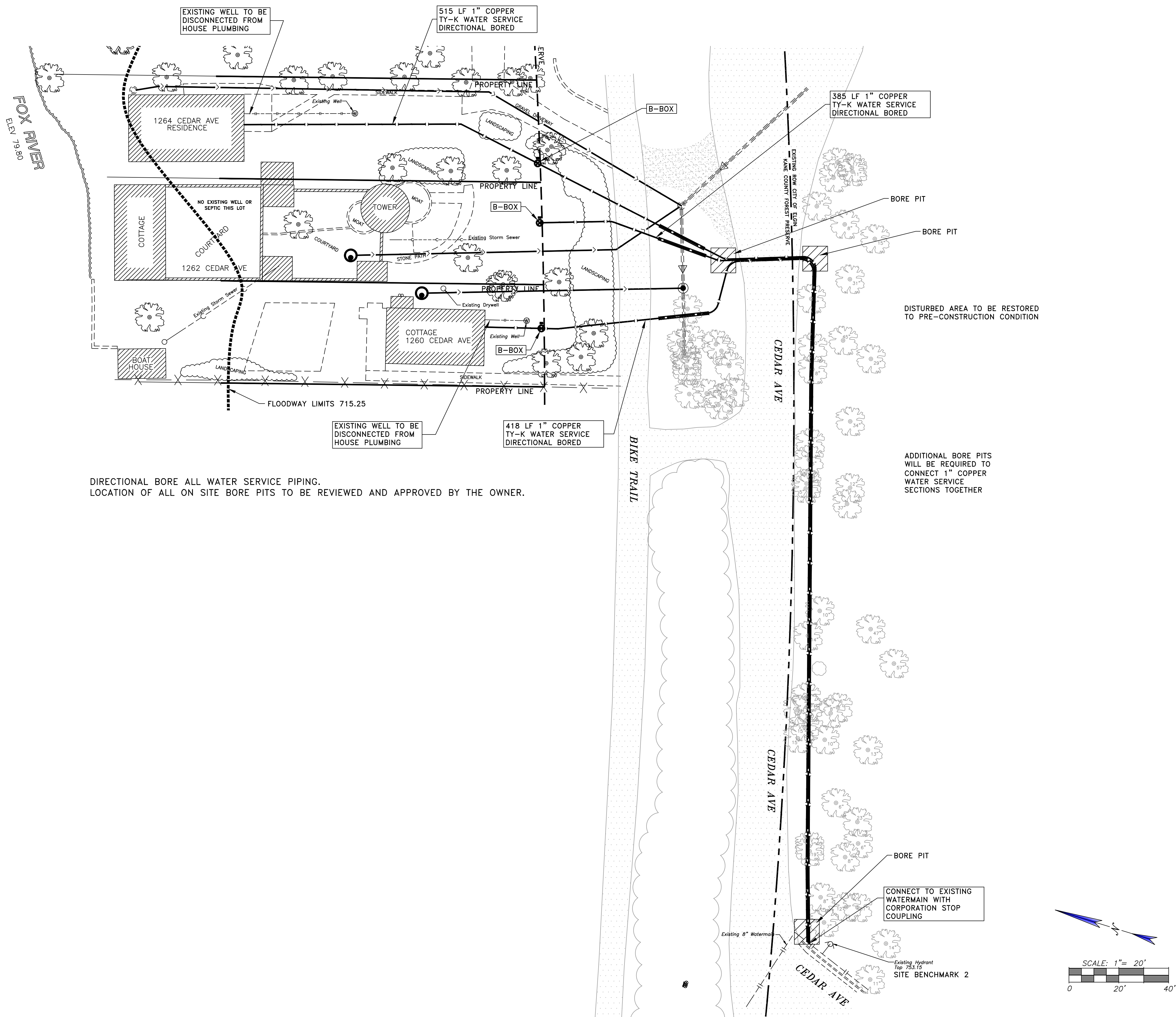
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SANITARY NOTES AND DETAILS

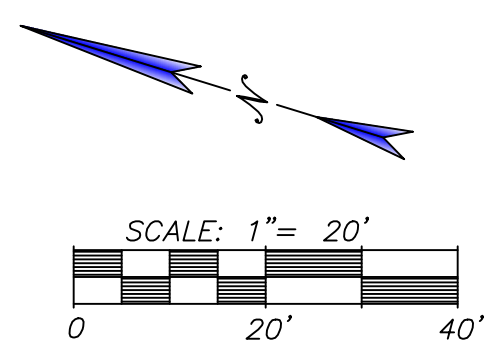
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DIRECTIONAL BORE ALL WATER SERVICE PIPING.
 LOCATION OF ALL ON SITE BORE PITS TO BE REVIEWED AND APPROVED BY THE OWNER.

DISTURBED AREA TO BE RESTORED TO PRE-CONSTRUCTION CONDITION

ADDITIONAL BORE PITS WILL BE REQUIRED TO CONNECT 1" COPPER WATER SERVICE SECTIONS TOGETHER



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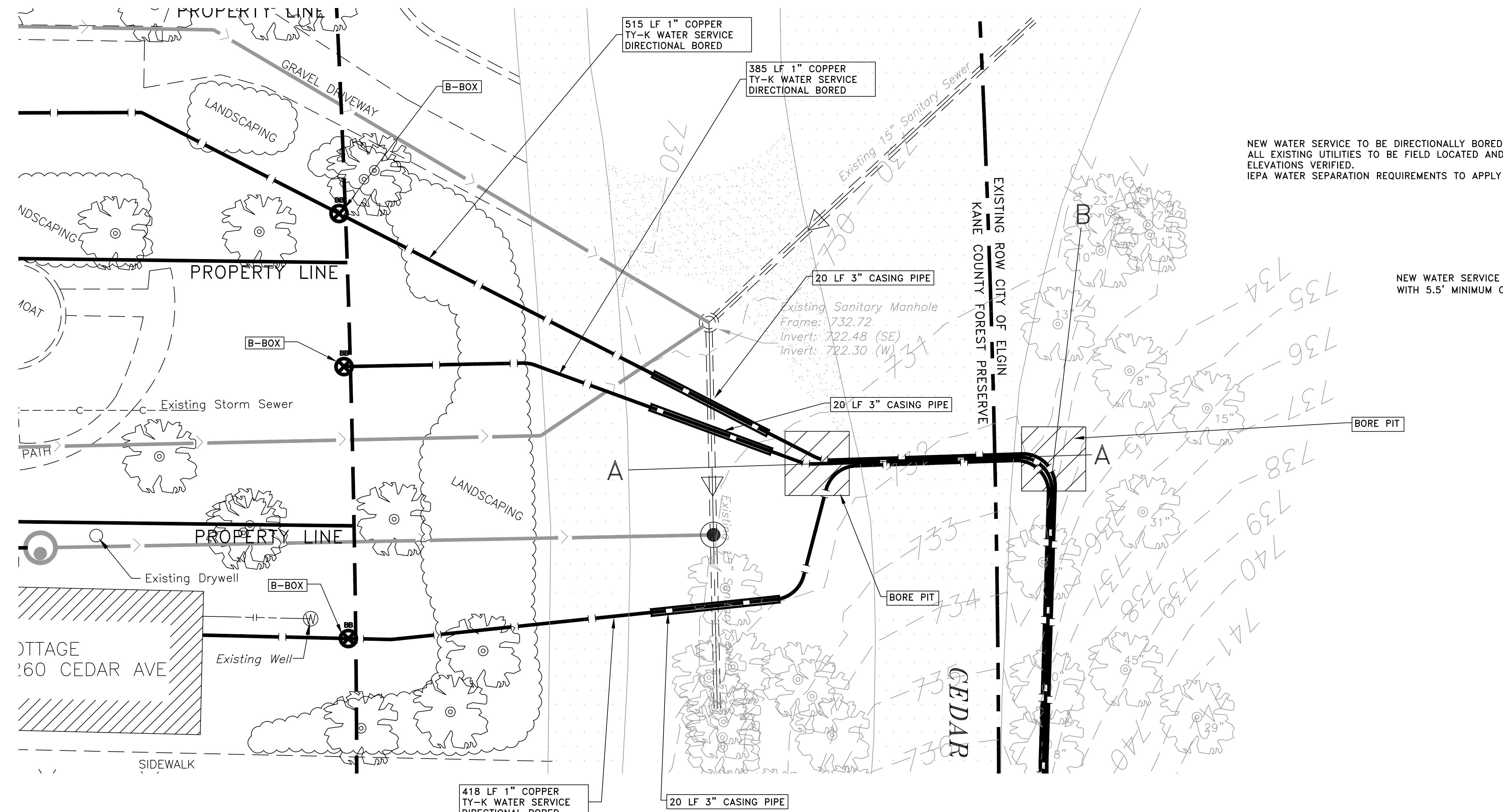
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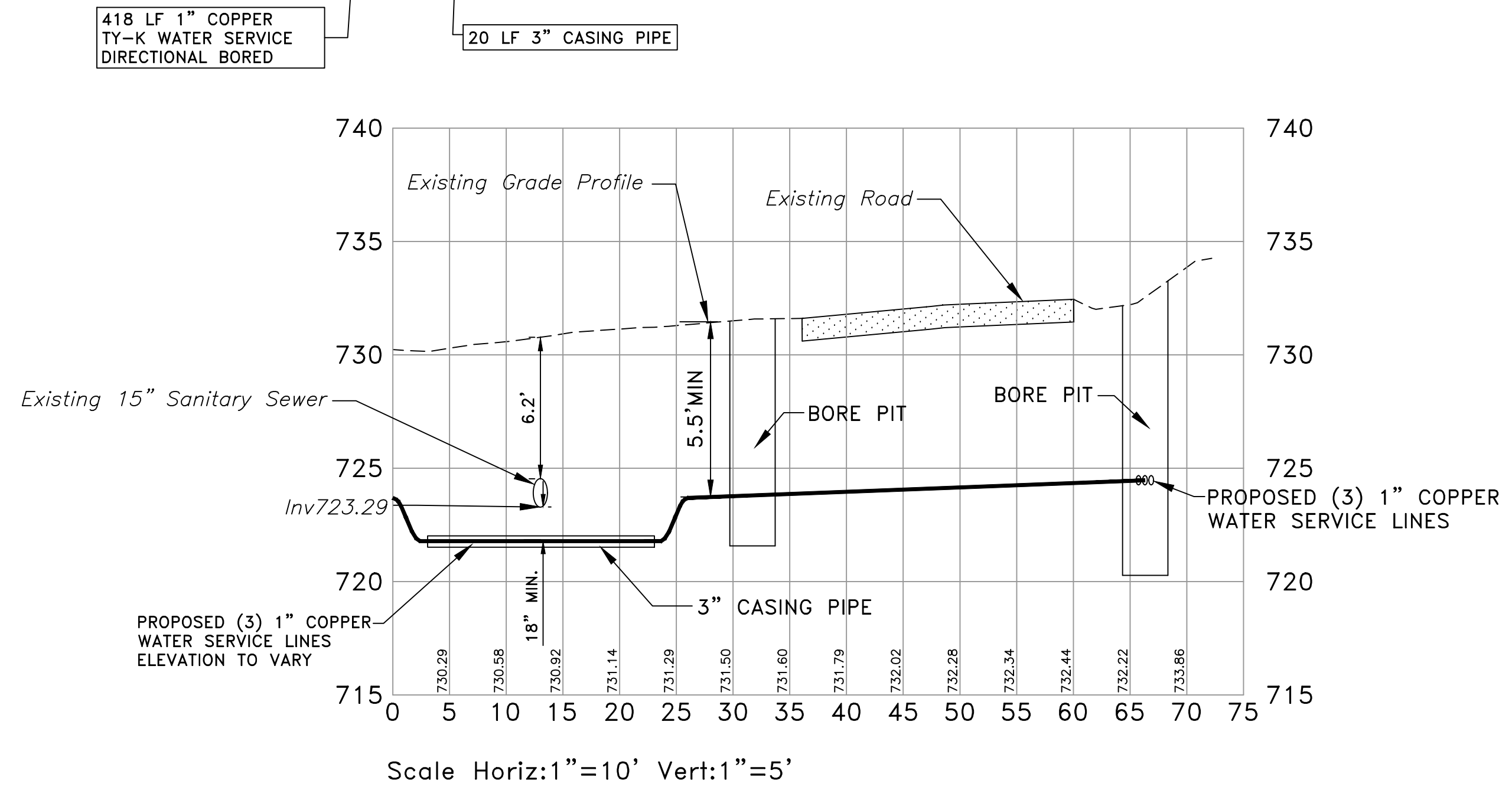
OVERALL WATERMAIN PLAN

SCALE	DATE
1"=20'	5/21/24
DRAWN BY PCS	JOB NO. 6007
CHECKED BY FCC	SHEET NO. 4 of 10



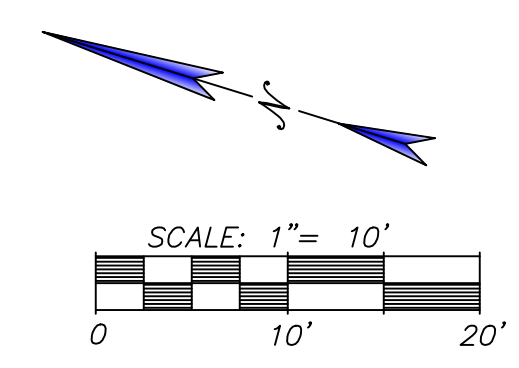
NEW WATER SERVICE TO BE DIRECTIONALLY BORED.
ALL EXISTING UTILITIES TO BE FIELD LOCATED AND
ELEVATIONS VERIFIED.
IEPA WATER SEPARATION REQUIREMENTS TO APPLY

NEW WATER SERVICE TO BE DIRECTIONALLY BORED
WITH 5.5' MINIMUM COVER



"Water main must be routed either over existing
sewers with a required separation minimum of
18-inches AND the required minimum bury depth of
5.5 feet, or under the existing sewers with a
separation minimum of 18-inches AND the water
main MUST be cased. If the water main is to be
routed over the sewers with less than the required
separation it MUST be cased"

NOTES:
EXISTING UNDERGROUND UTILITIES LOCATION SHOWN
ARE BEST ESTIMATION BY ENGINEER BASED ON
PROVIDED INFORMATION.
EXISTING UNDERGROUND UTILITIES TO BE FIELD
VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.
ALL PROPOSED WATER SERVICES SHALL BE 1" COPPER
WATER SERVICE WITH B-BOX.
EXISTING WATER SYSTEM TO REMAIN ONLINE DURING
CONSTRUCTION OF PROPOSED IMPROVEMENTS.
DISTURBED AREA TO BE RESTORED TO
PRE-CONSTRUCTION CONDITION



SECTION A-A

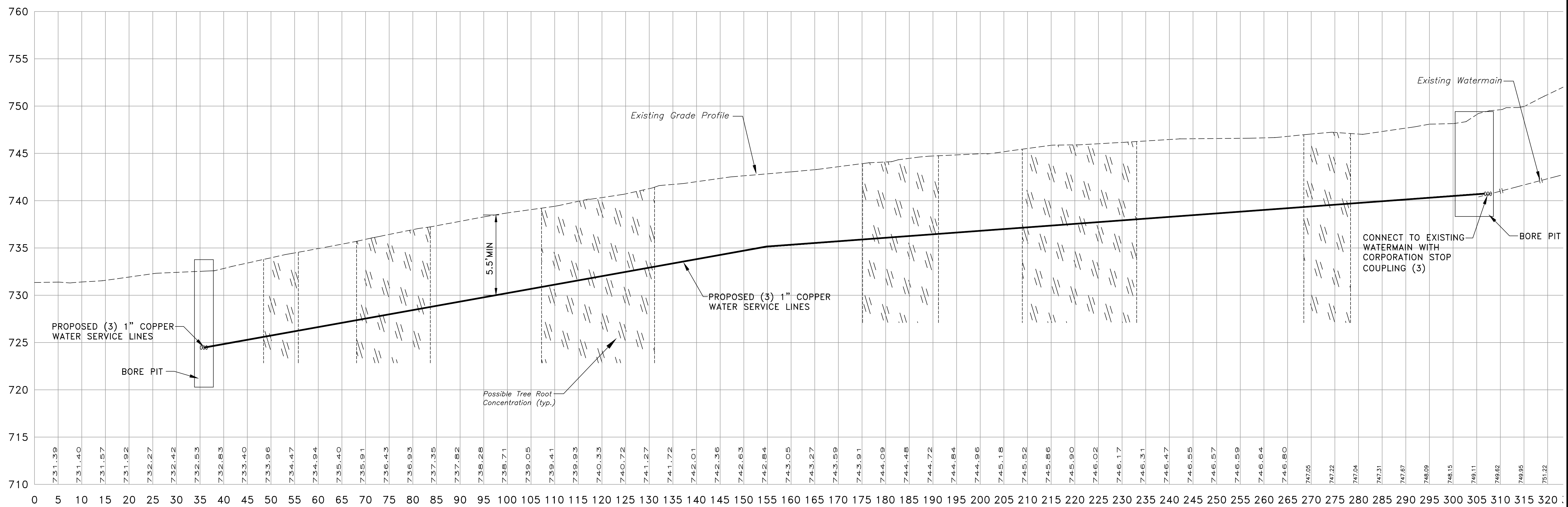
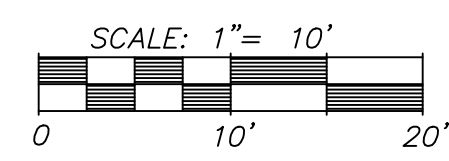
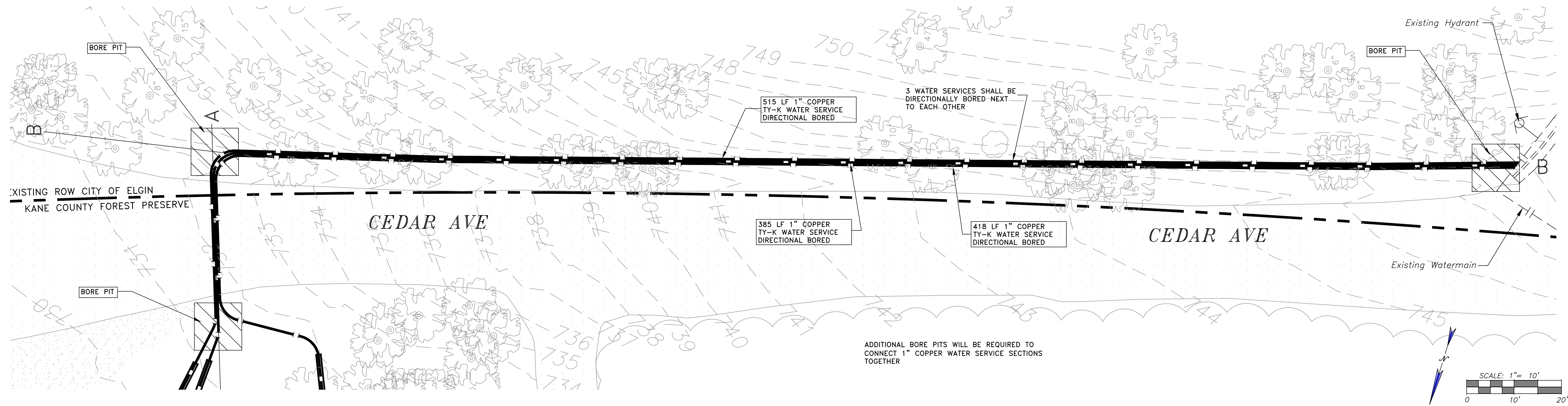
#	DATE	REMARKS
2	5-21-24	PER CITY REVIEW

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1814 GRANDSTAND PLACE
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schfloweng.com
Firm License No. 184-001104

ELGIN ILLINOIS
1260, 1262, 1264 CEDAR AVE
WATER SERVICE
PLAN AND PROFILE: A-A

SCALE	DATE
1"=10'	5/21/24
DRAWN BY PCS	JOB NO. 6007
CHECKED BY FCC	SHEET NO. 5 of 10



SECTION B-B

NOTES:
 EXISTING UNDERGROUND UTILITIES LOCATION SHOWN ARE BEST ESTIMATION BY ENGINEER BASED ON PROVIDED INFORMATION.
 EXISTING UNDERGROUND UTILITIES TO BE FIELD VERIFIED BY CONTRACTOR PRIOR TO CONSTRUCTION.

NEW WATER SERVICE TO BE DIRECTIONALLY BORED WITH 5.5' MINIMUM COVER
 DISTURBED AREA TO BE RESTORED TO PRE-CONSTRUCTION CONDITION

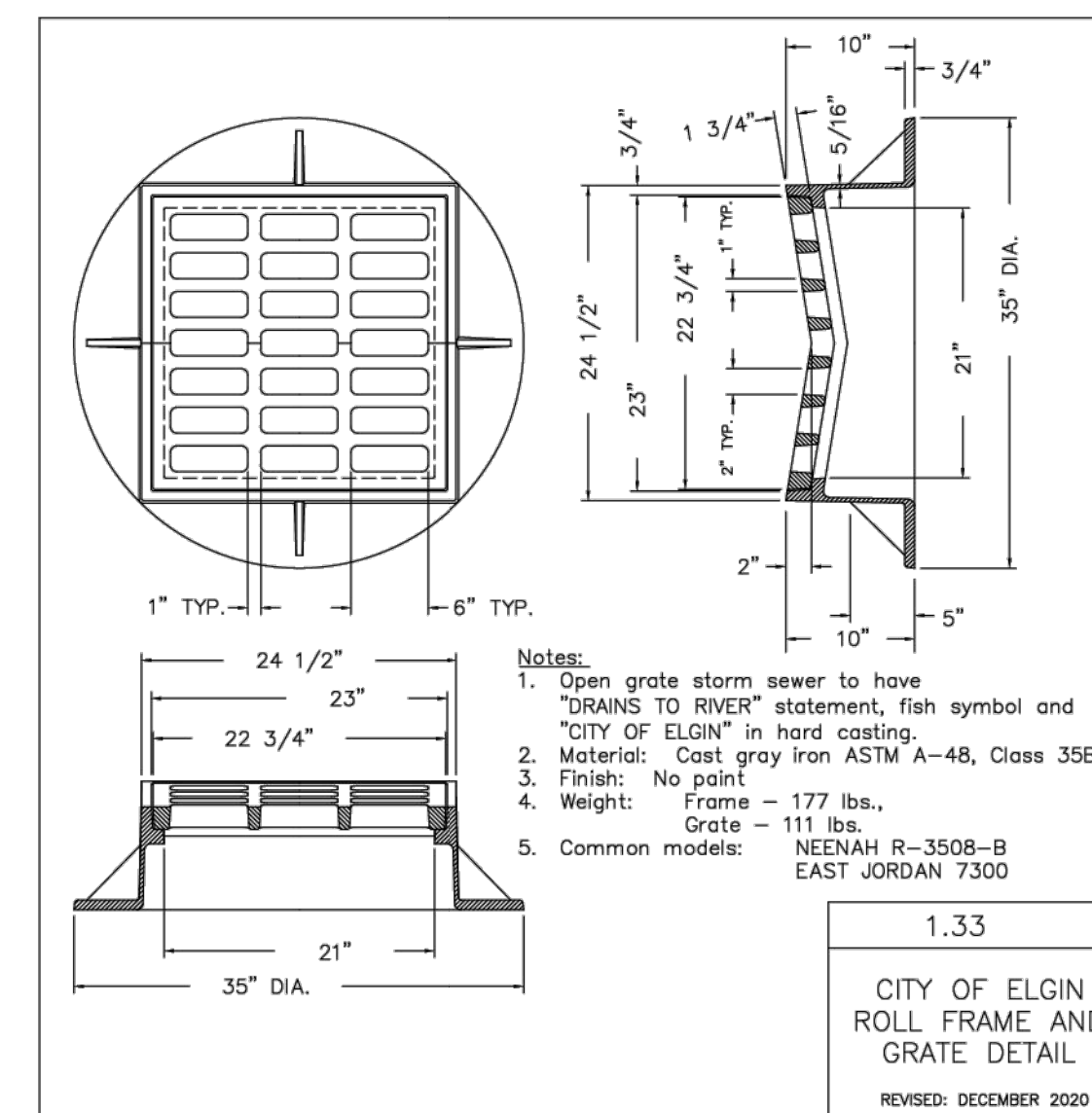
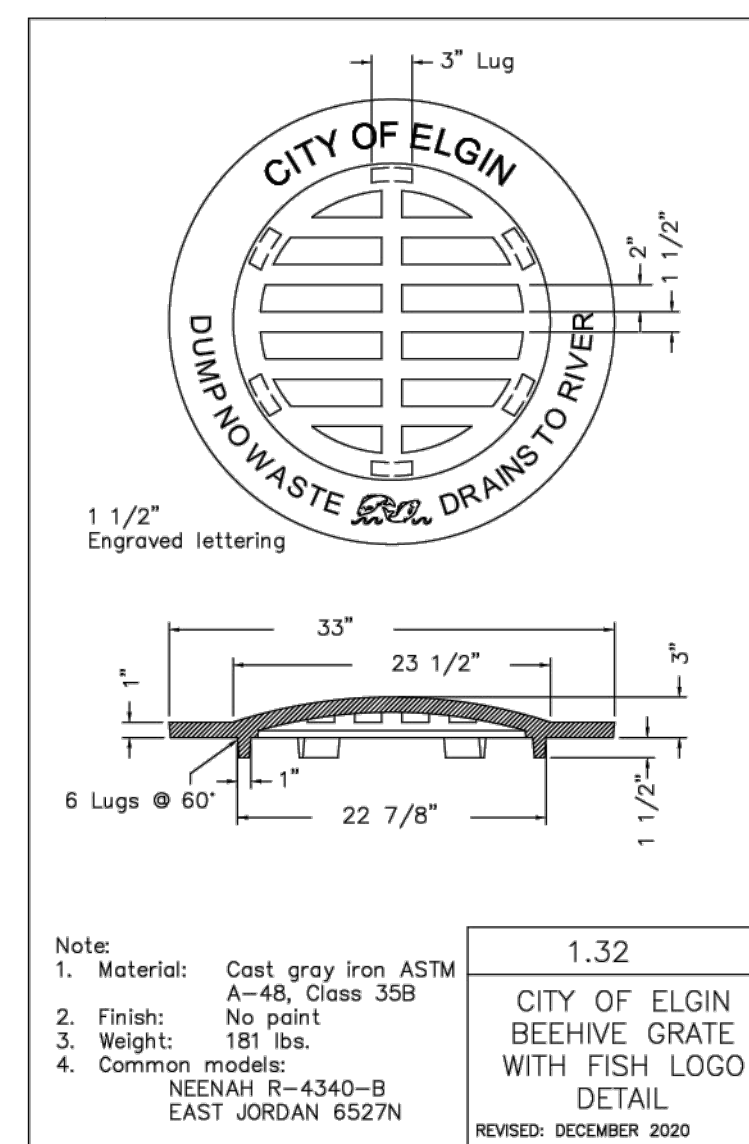
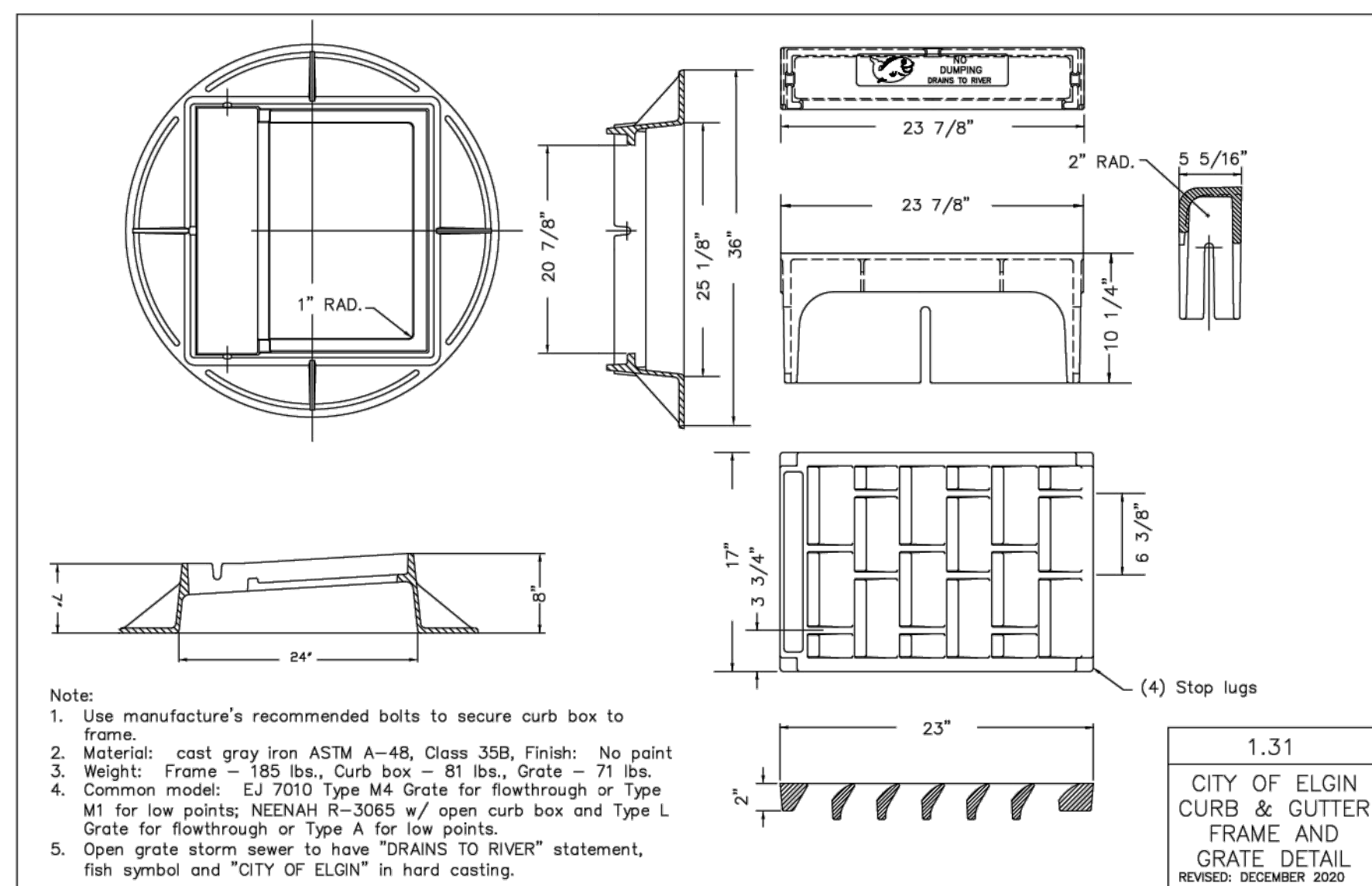
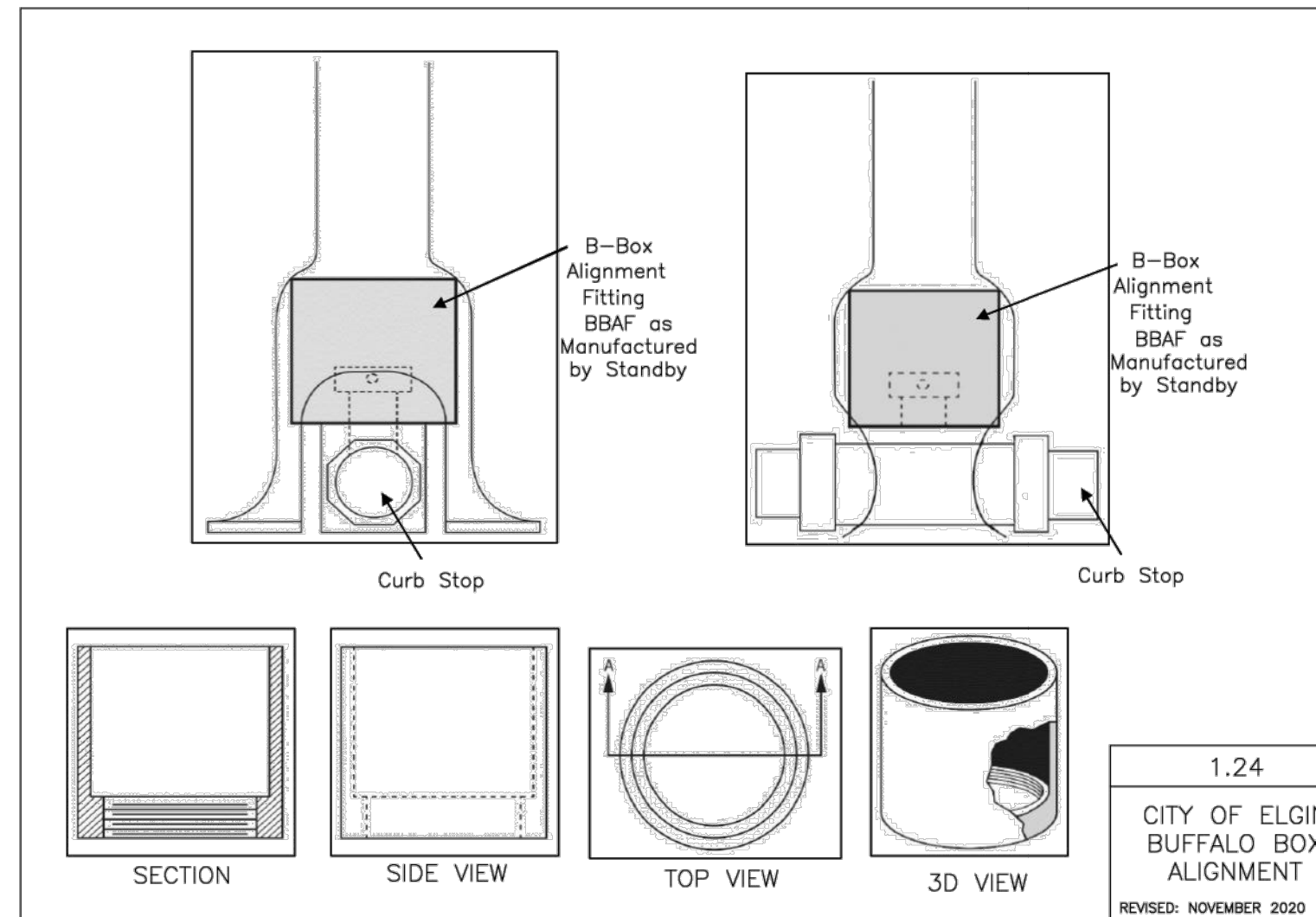
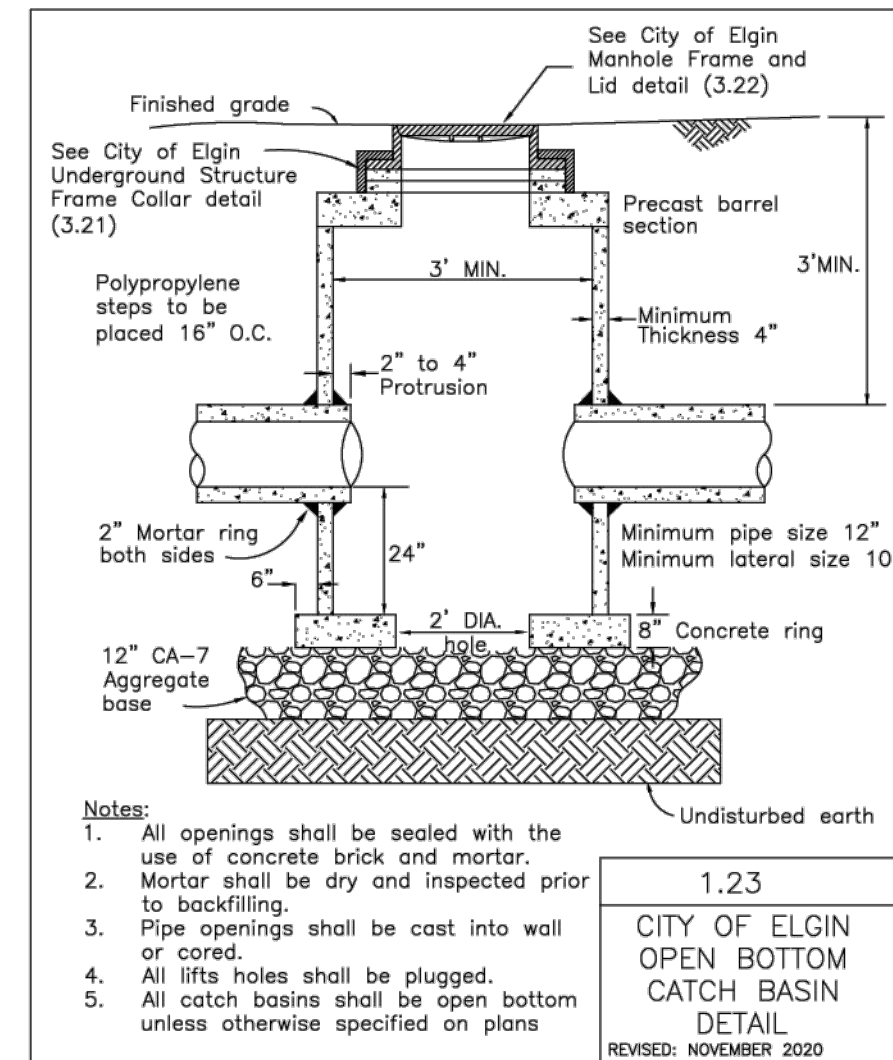
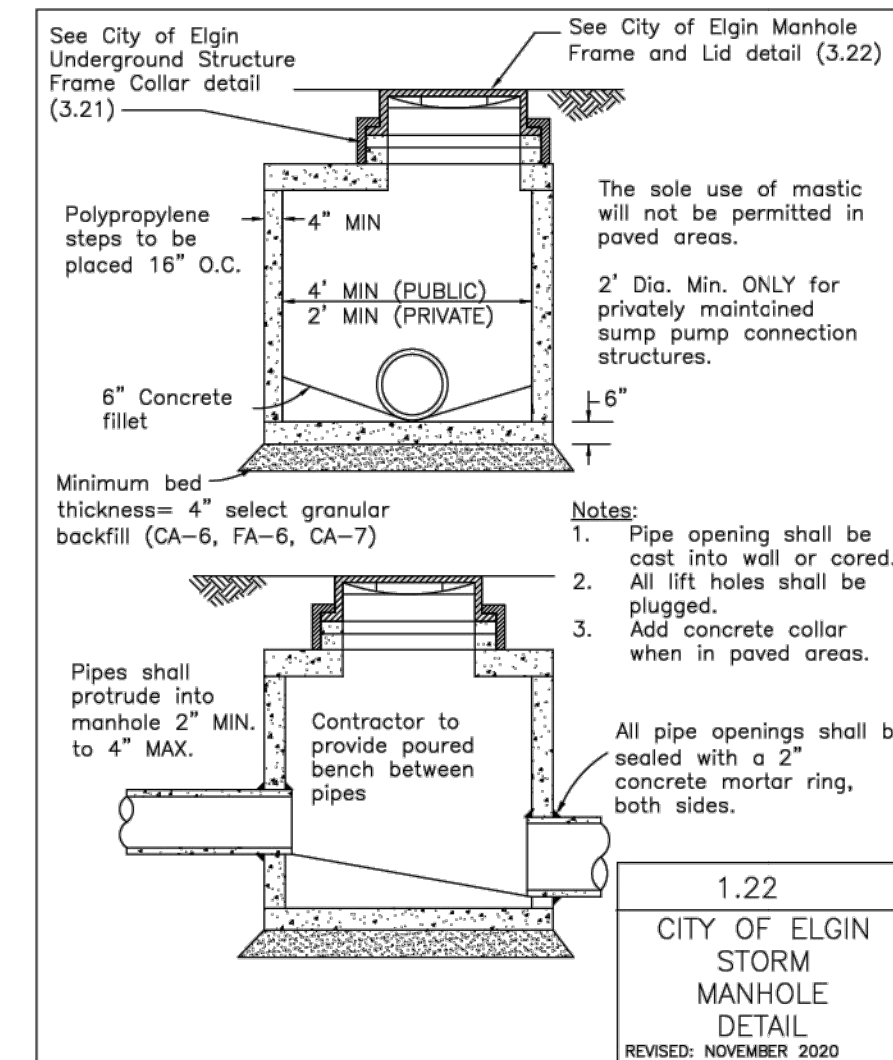
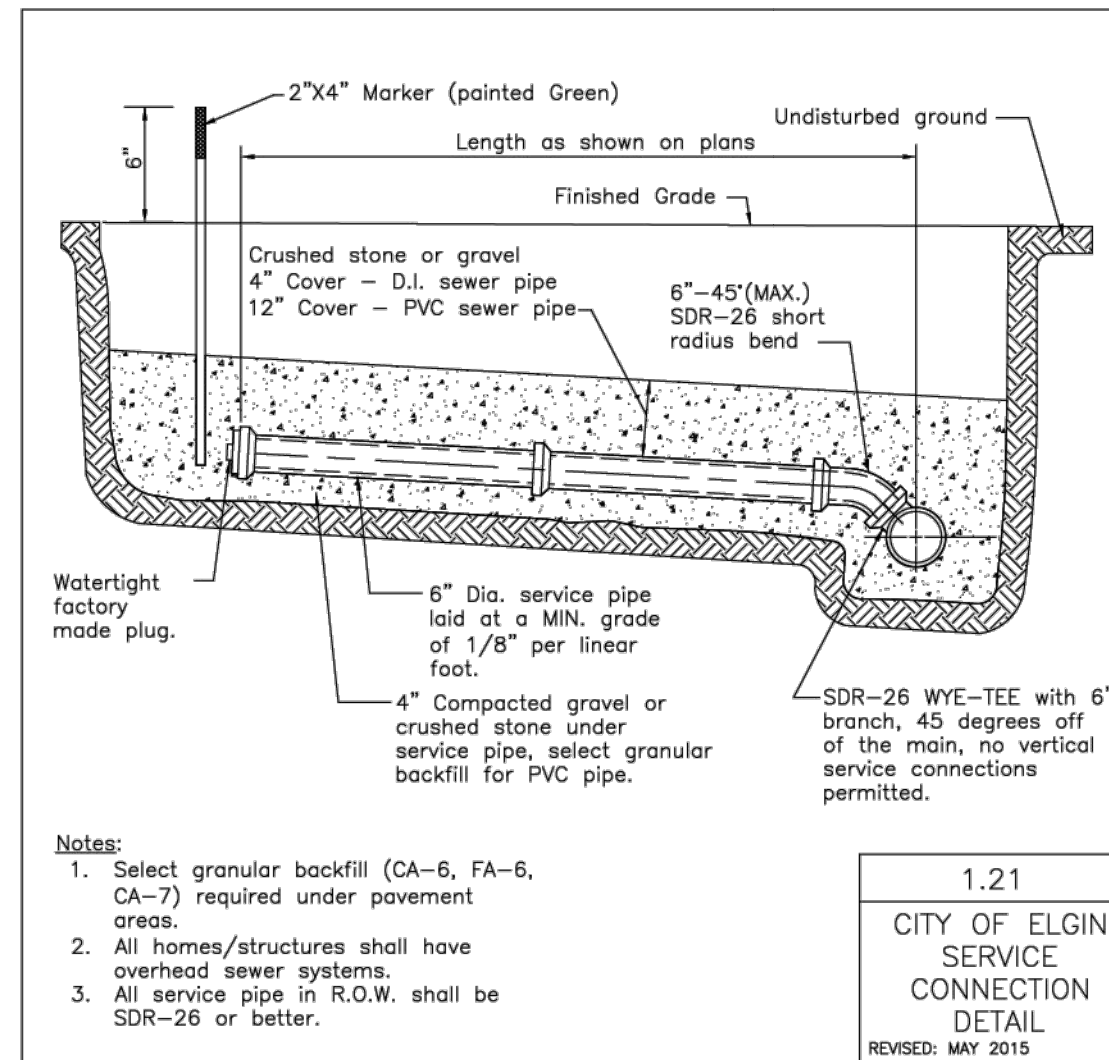
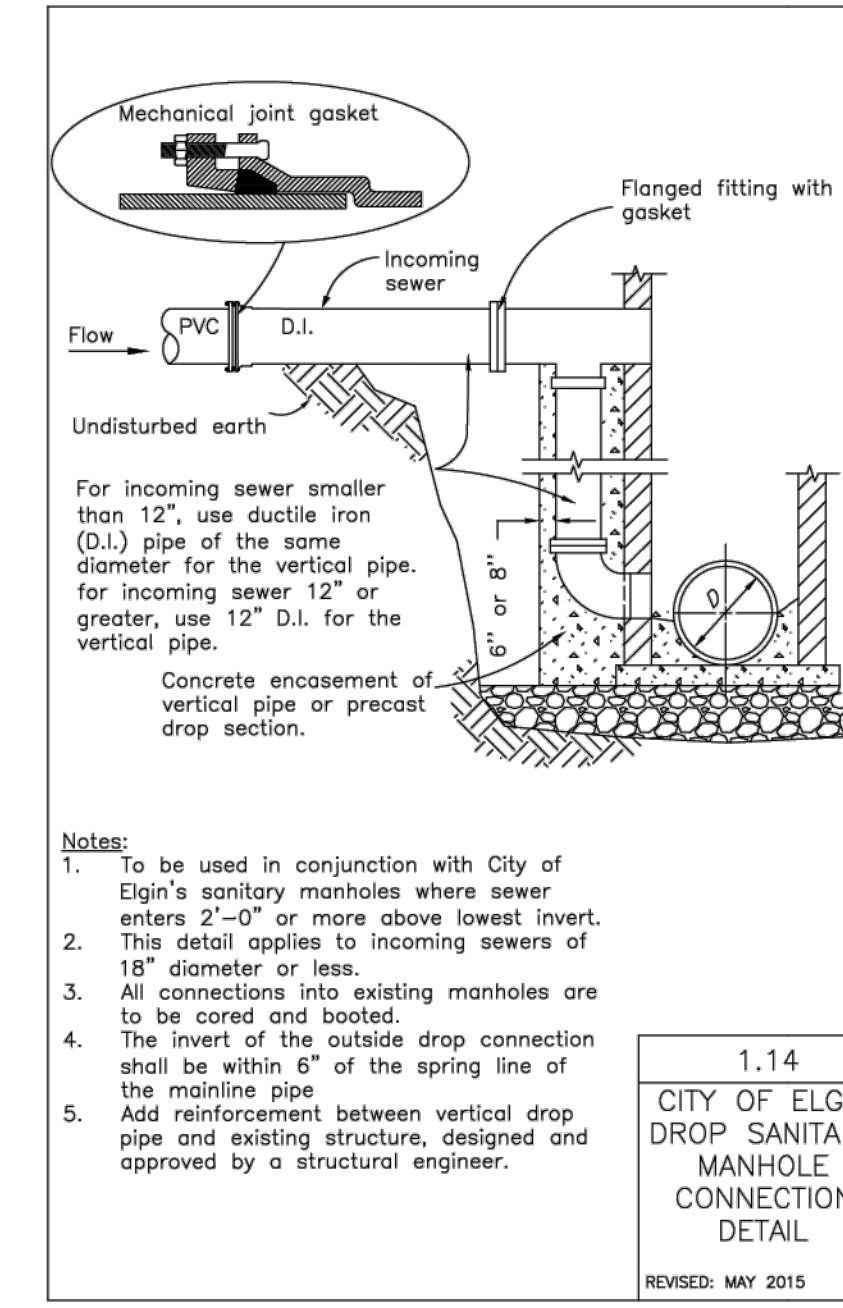
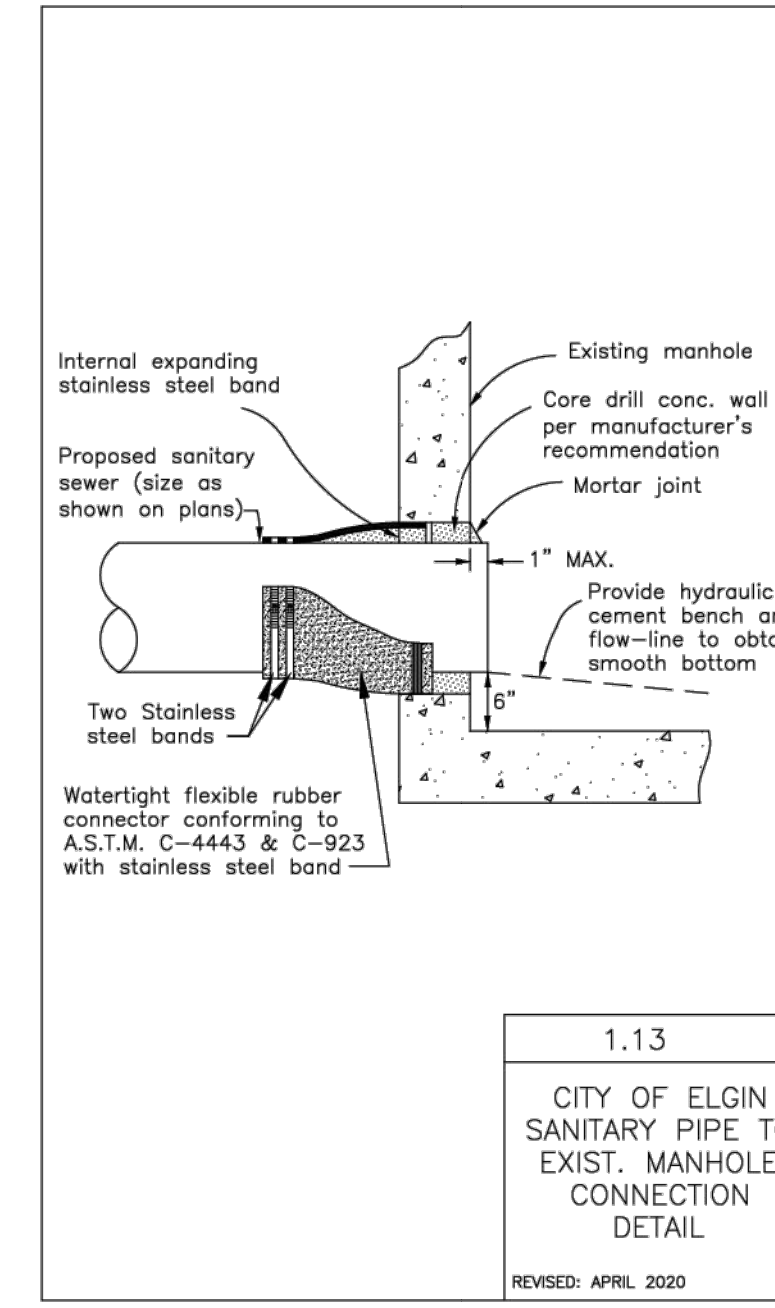
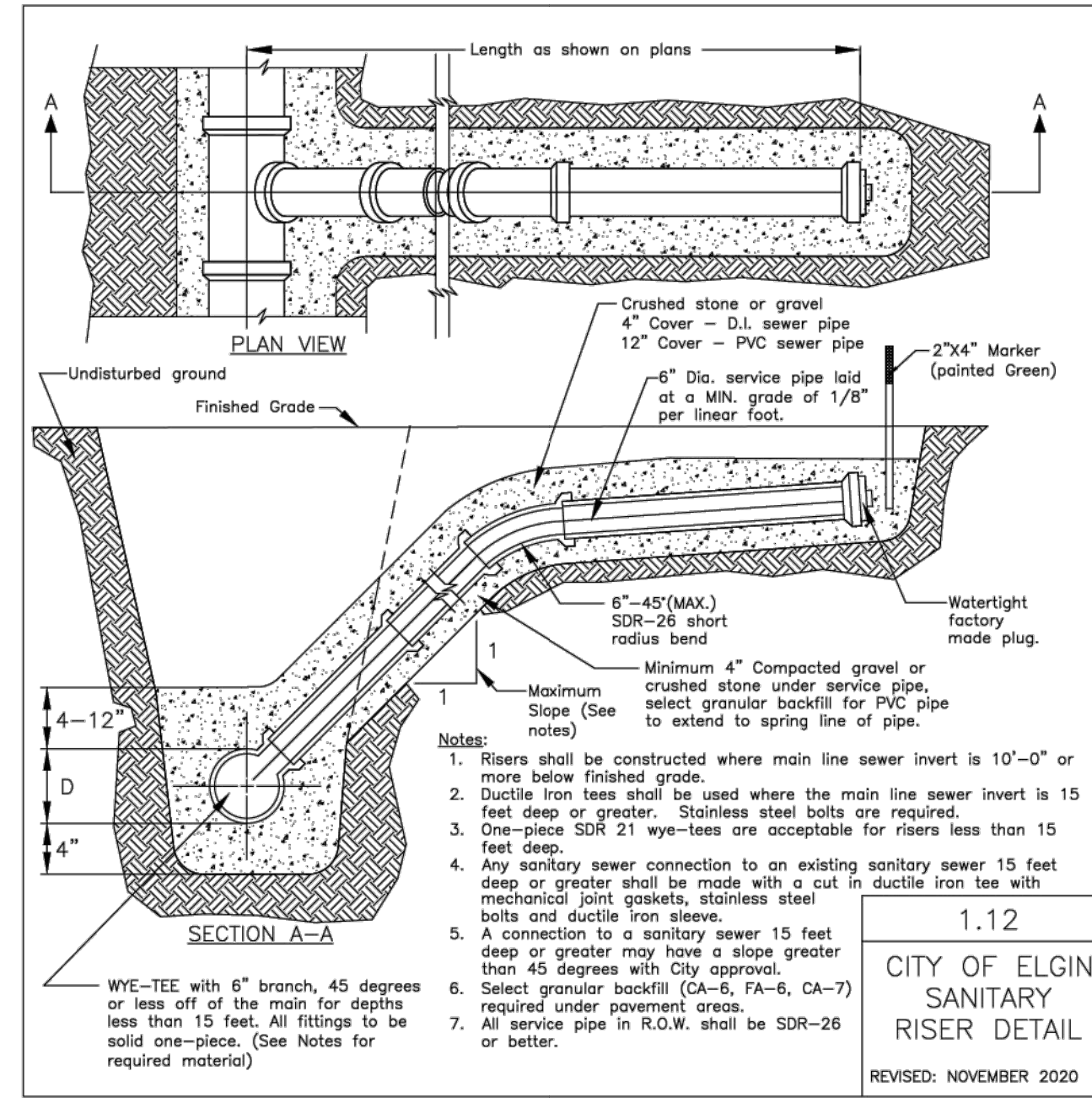
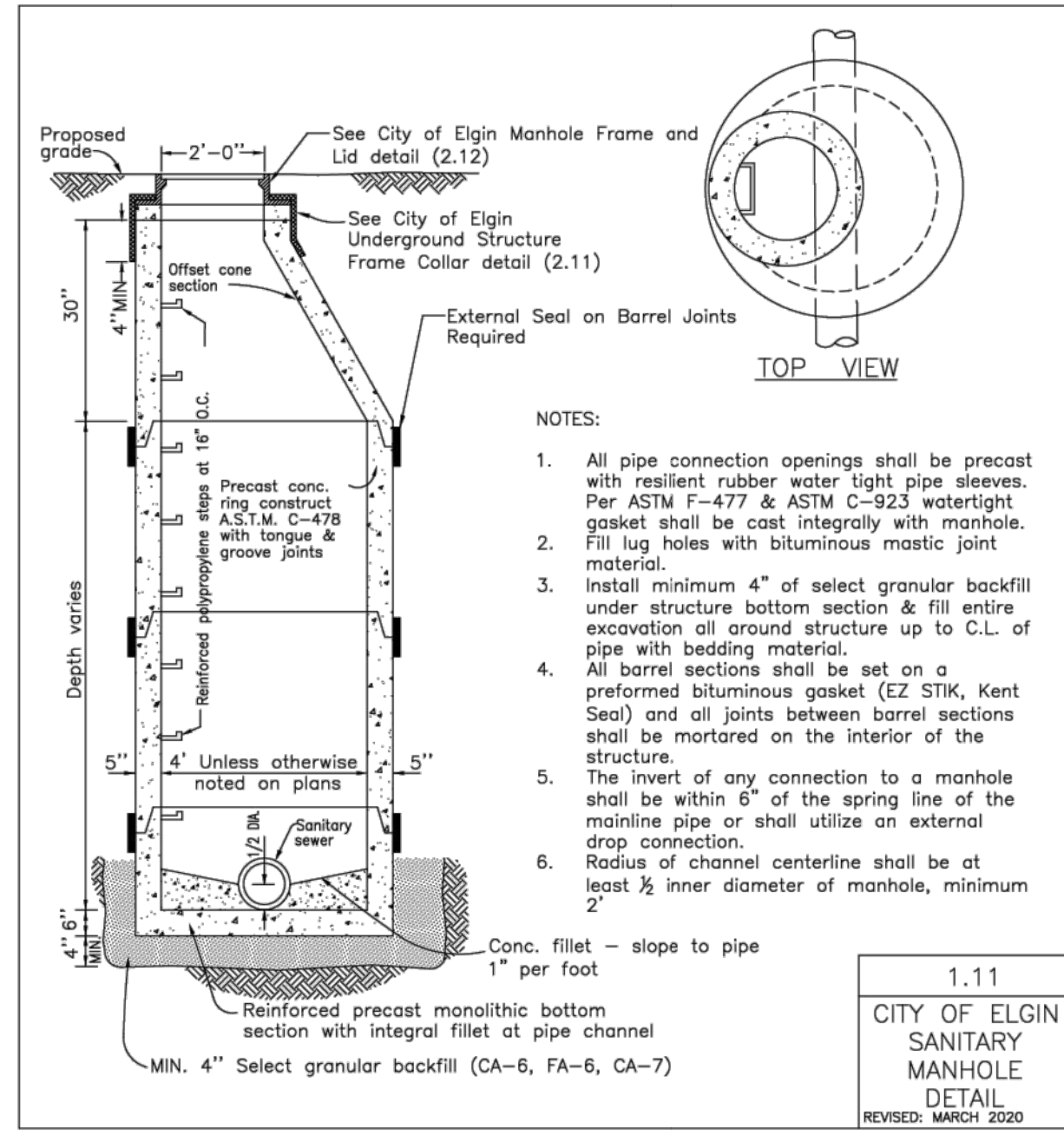
#	DATE	REMARKS
1	3-20-24	PER FRWRD REVIEW
2	5-21-24	PER CITY REVIEW



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 1260, 1262, 1264 CEDAR AVE
 WATER SERVICE
PLAN AND PROFILE: B-B

SCALE	DATE
1"=10'	5/21/24
DRAWN BY PCS	JOB NO. 6007
CHECKED BY FCC	SHEET NO. 6 of 10



DATE	12/27/2023	REVISION	REVISED PER CITY REVIEW - CHANGES TO 2.12
DATE	05/27/2021	REVISION	REVISED PER CITY REVIEW - CHANGES TO 2.12
DATE	05/27/2021	REVISION	REVISED PER CITY REVIEW - CHANGES TO 2.12

STANDARD DETAILS

CITY OF ELGIN
1900 Holmes Road
Elgin, IL 60123
www.cityofelgin.org

**ENGINEERING
DEPARTMENT**



PROJ. NO.	
PREL. ENG.	
DRAWN BY	BAS
CHECKED BY	
DATE	12-04-20
SCALE	N.T.S.

#	DATE	REMARKS
1	3-20-24	PER FRWRD REVIEW
2	5-21-24	PER CITY REVIEW

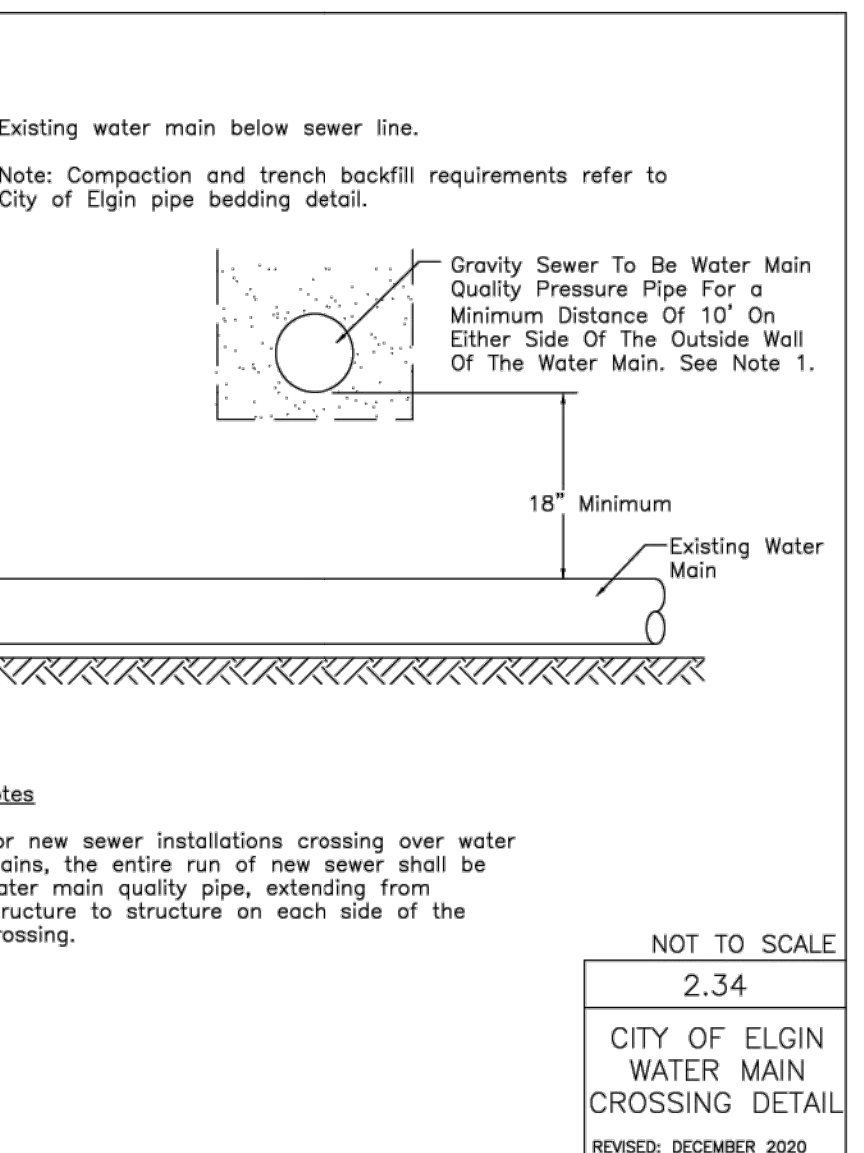
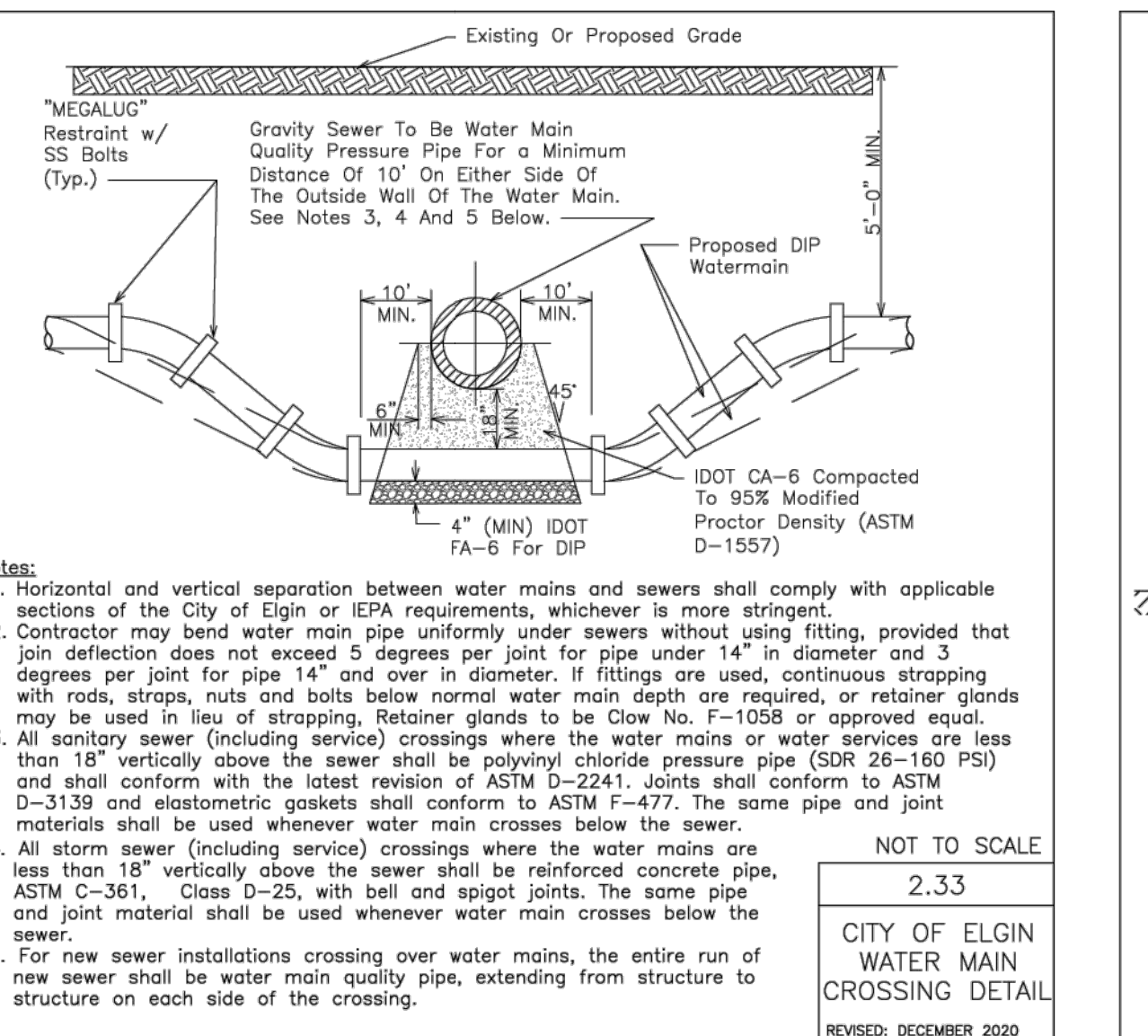
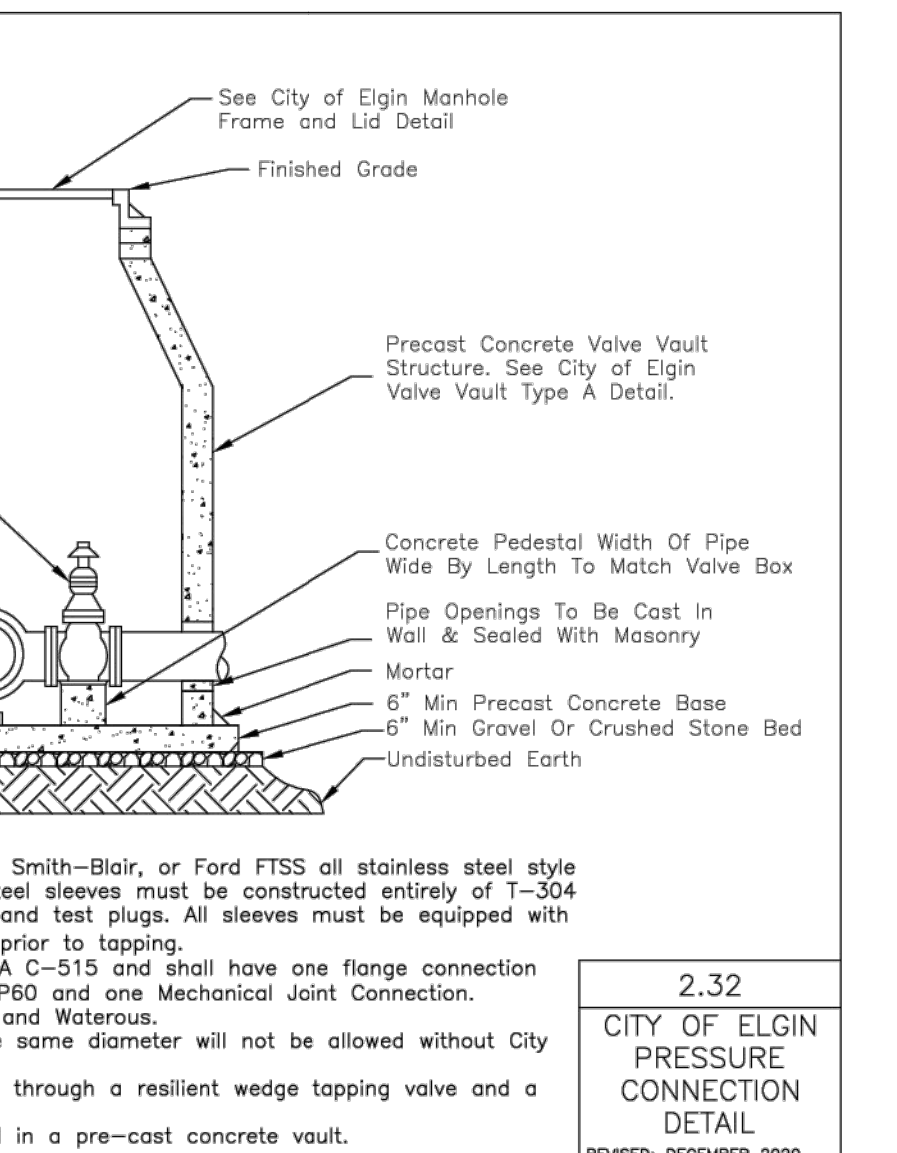
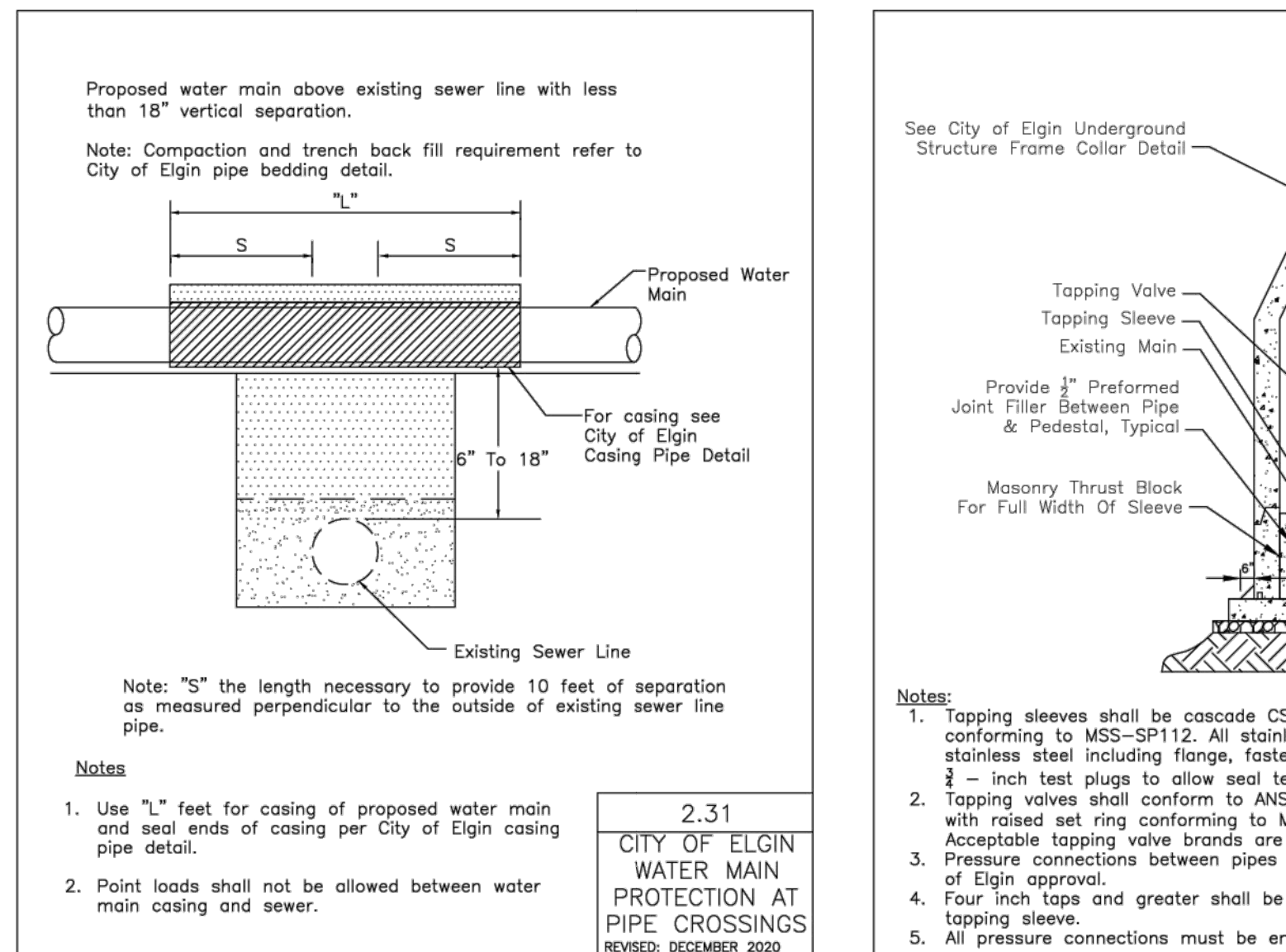
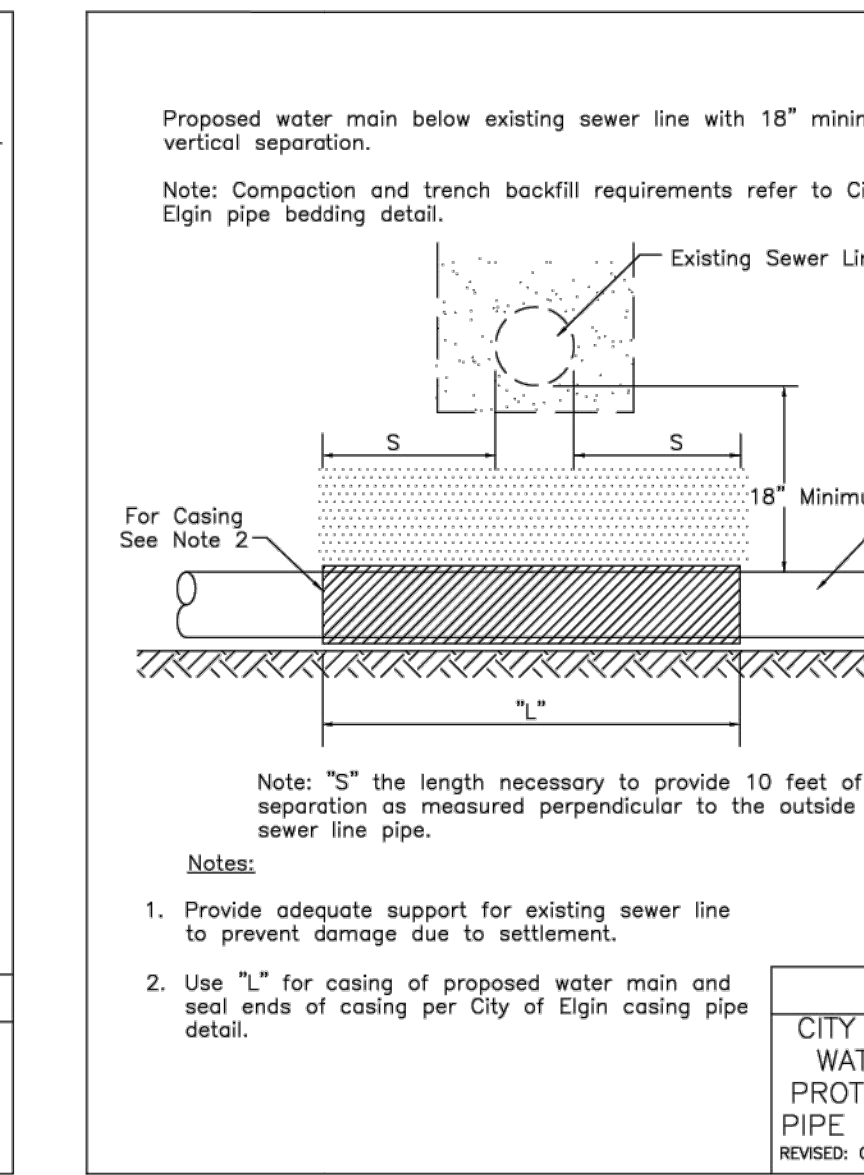
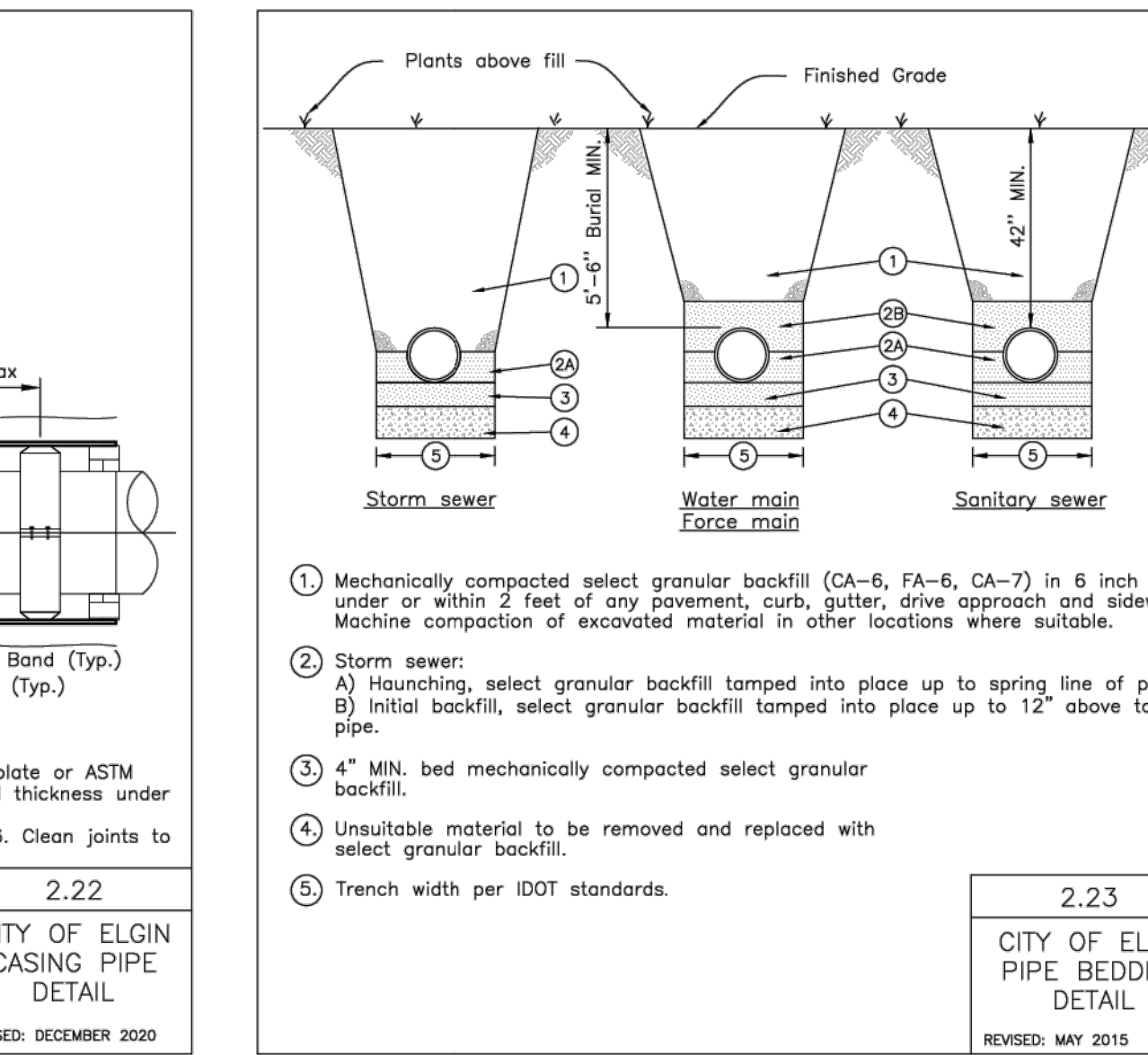
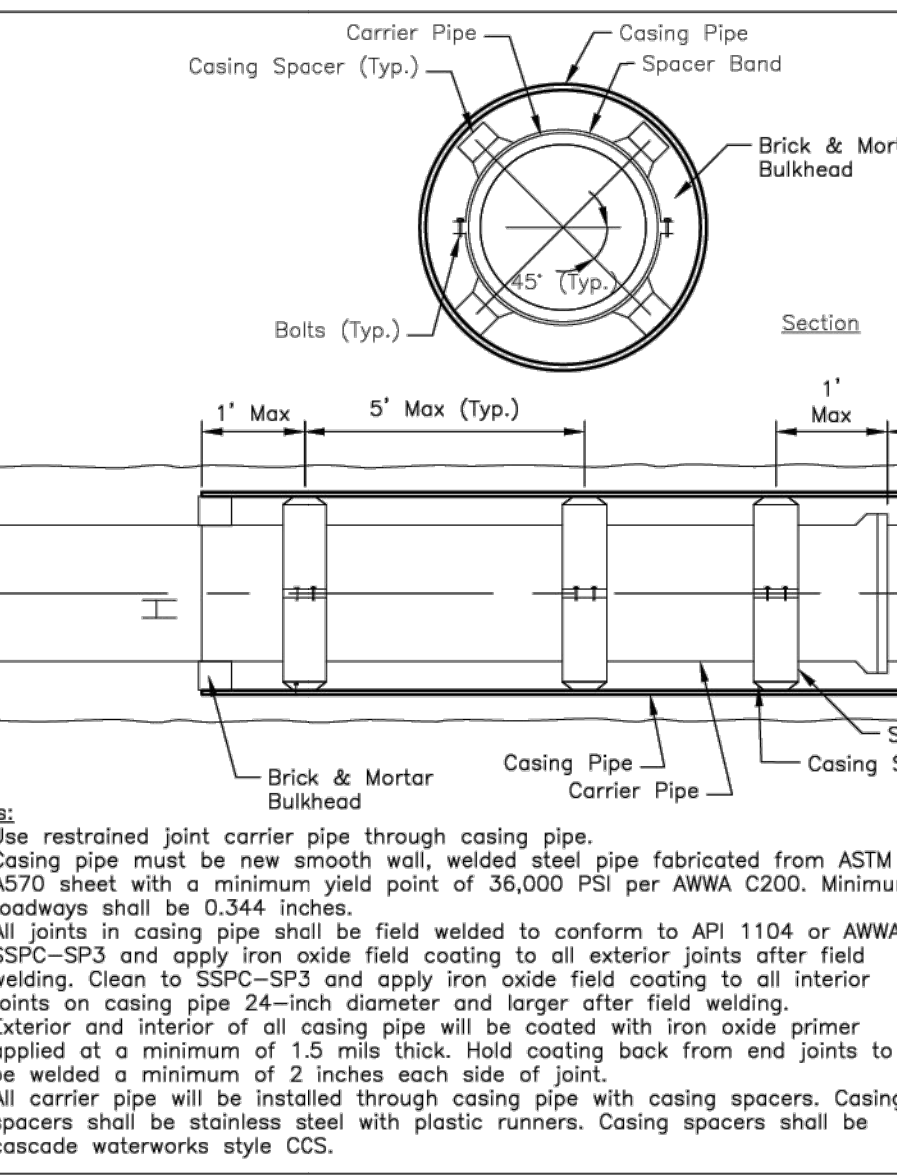
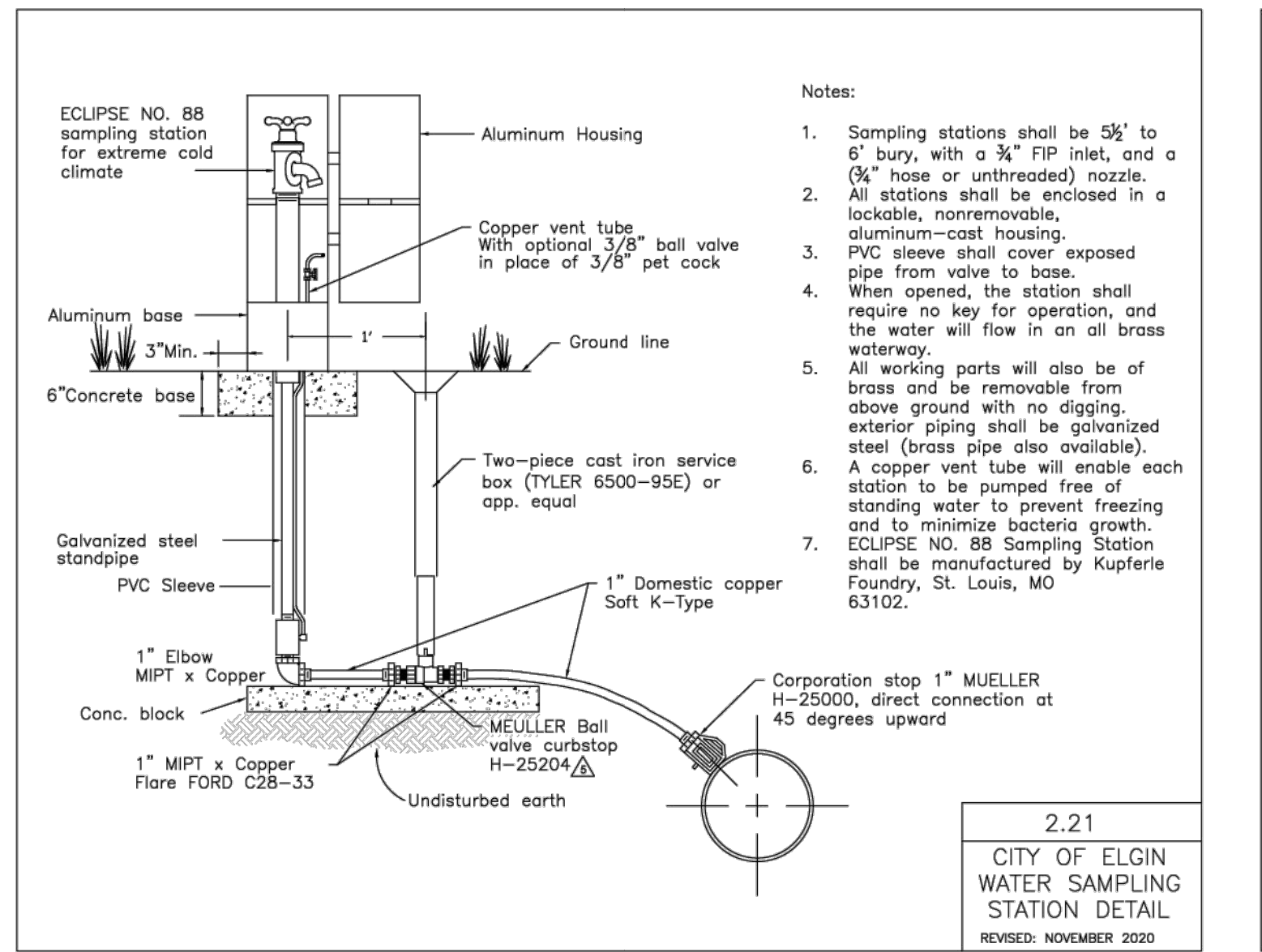
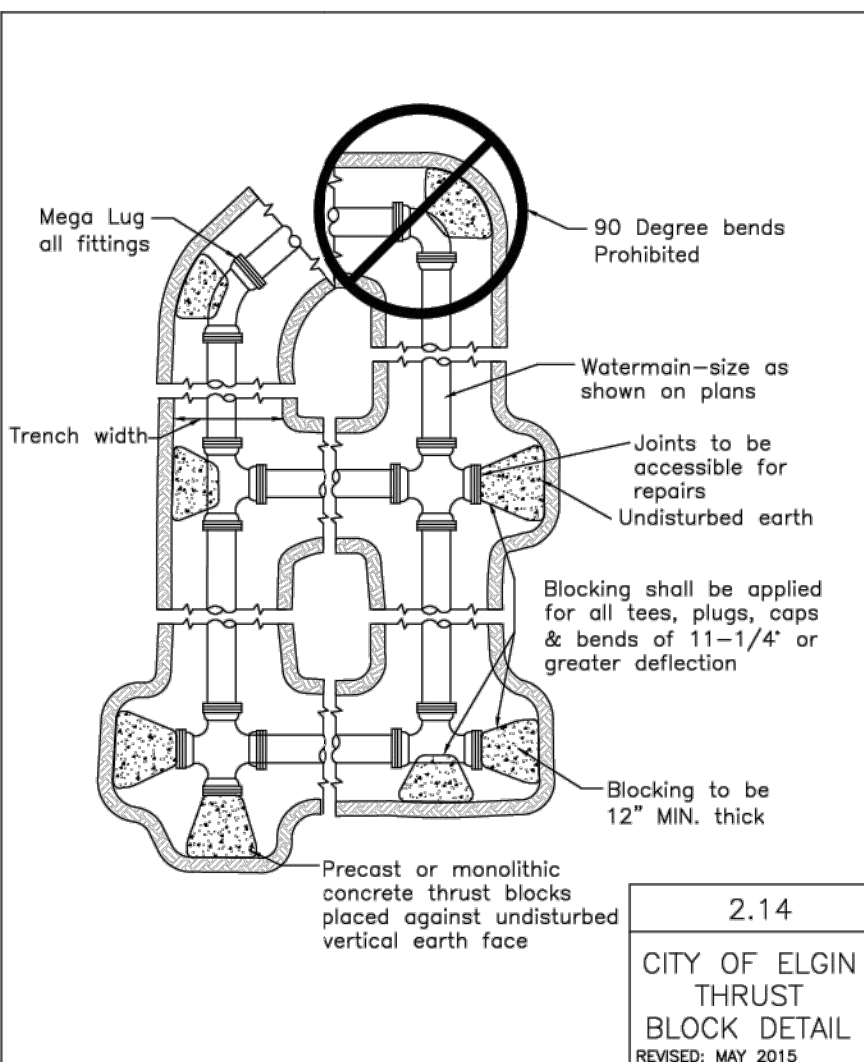
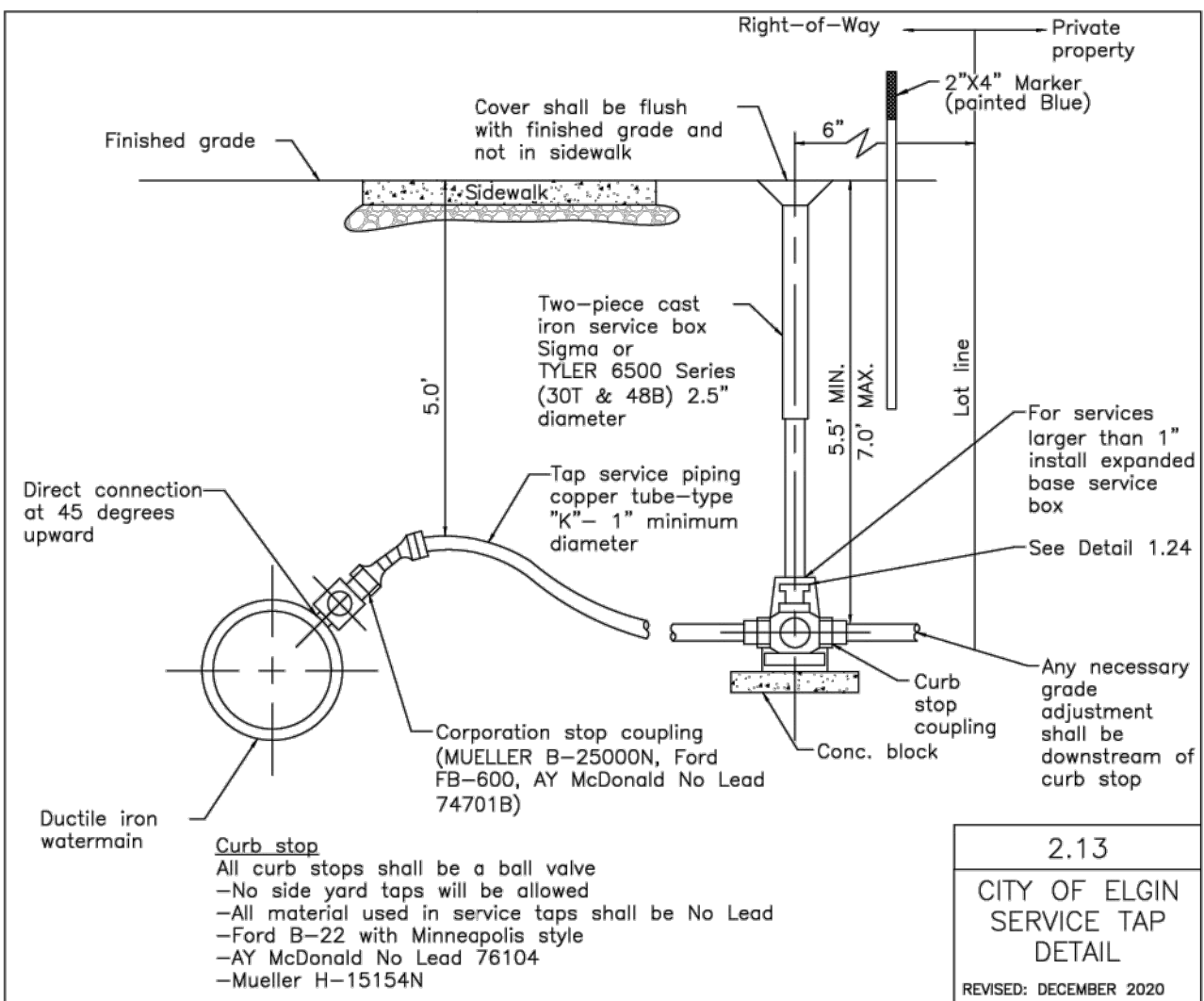
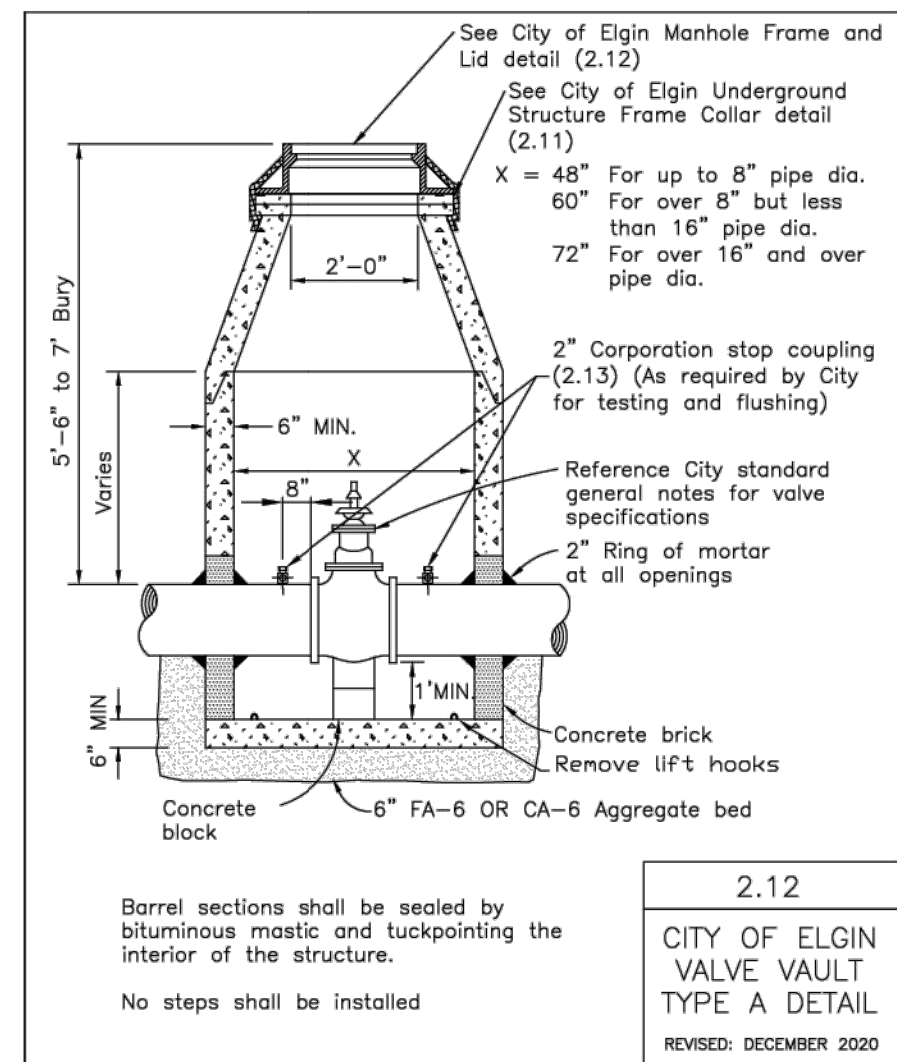
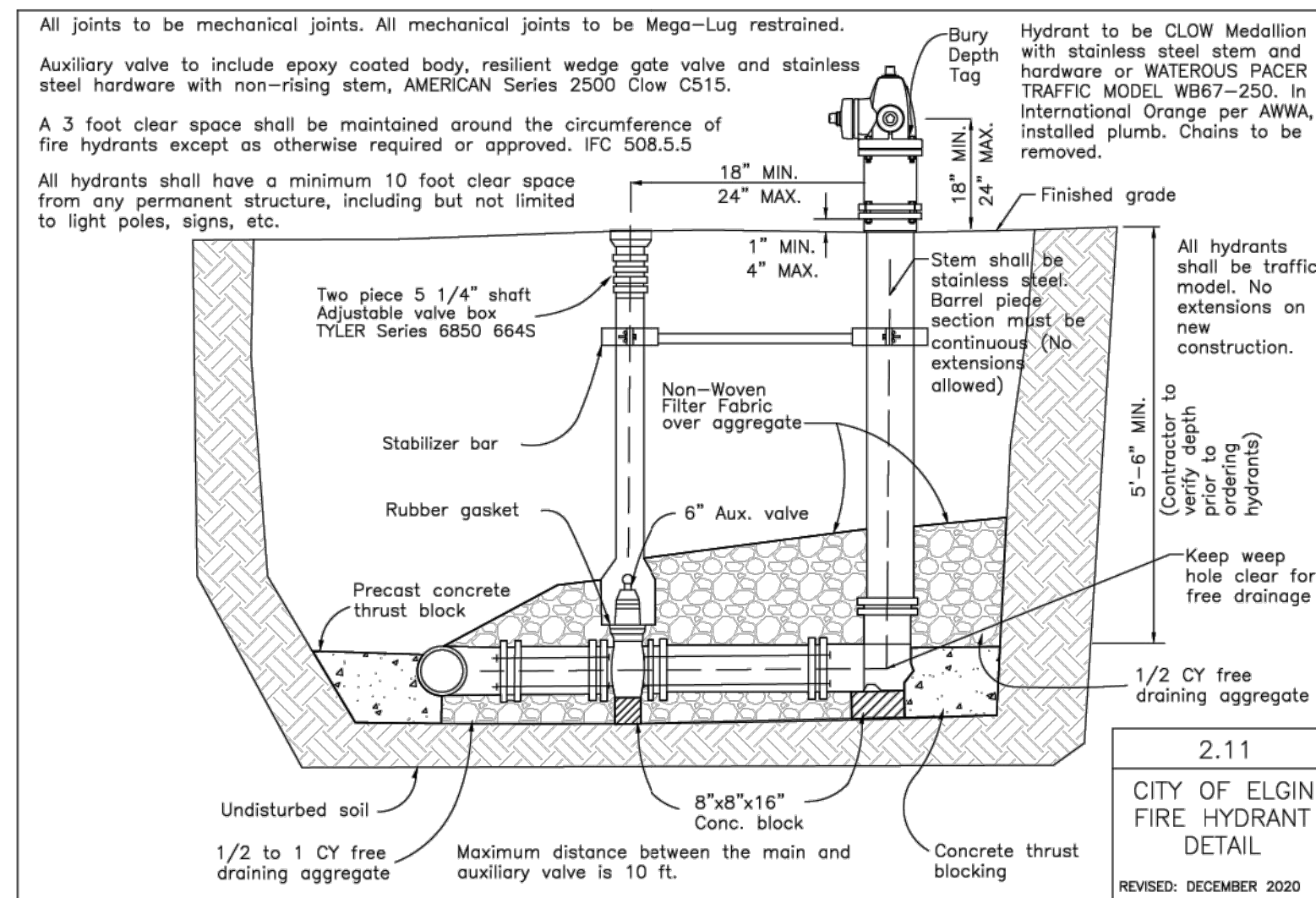
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schefloweng.com
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ELGIN
1260, 1262, 1264 CEDAR AVE
CITY OF ELGIN
DETAILS SHEET 1

ILLINOIS

SCALE	NONE	DATE	5/21/24
DRAWN BY	PCS	JOB NO.	6007
CHECKED BY	FCC	SHEET NO.	8 of 10



DATE	REVISIONS
12/27/2020	WATER DEPARTMENT - CHANGES TO 2.12
06/27/2021	ADD 3.34 UNDERGROUND DETAIL

STANDARD DETAILS

CITY OF ELGIN
1900 Holmes Road
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Phone: 847-931-6100
Fax: 847-931-5965

ENGINEERING DEPARTMENT

ELGIN
THE CITY IN THE SUBURBS

PROJ. MGR.:
DRAWN BY: BAS
CHECKED BY: N.T.S.
DATE: 12-04-20
SCALE: N.T.S.

SHEET
2 OF **3**

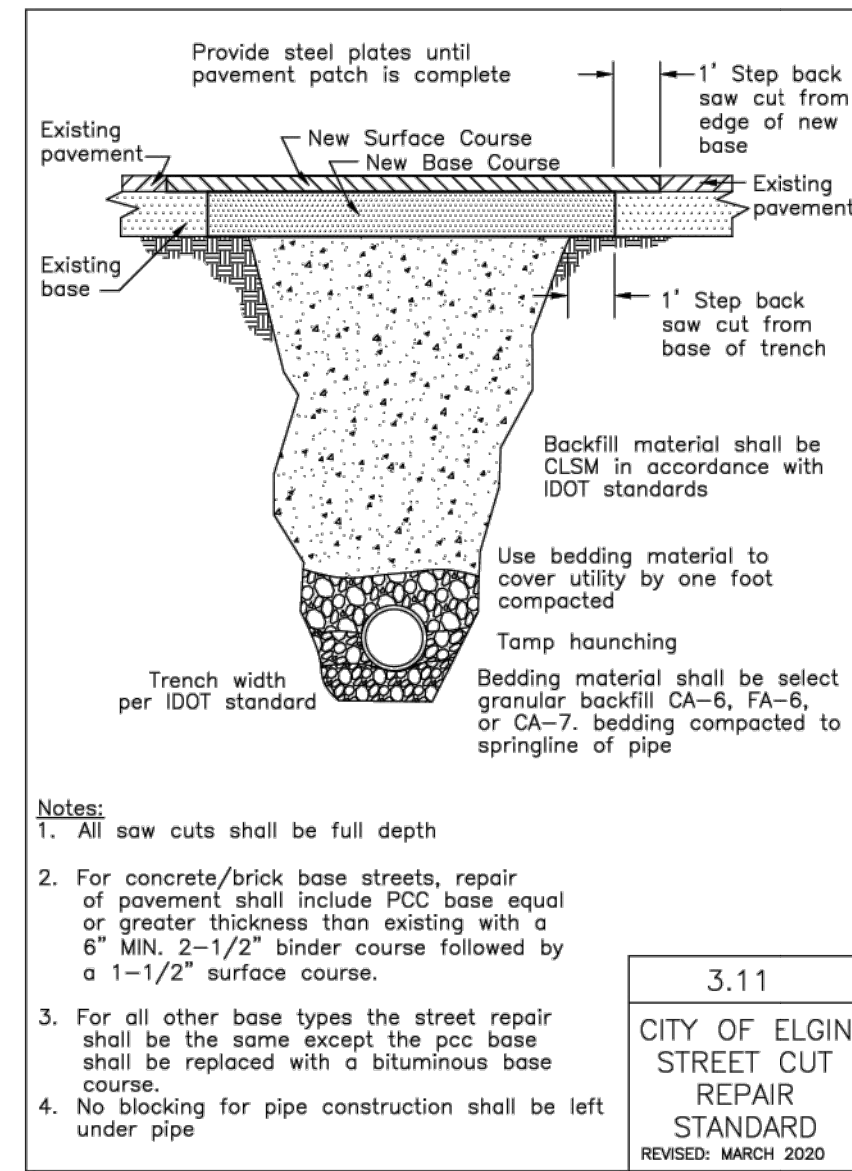
#	DATE	REMARKS
1	3-20-24	PER FRWRD REVIEW
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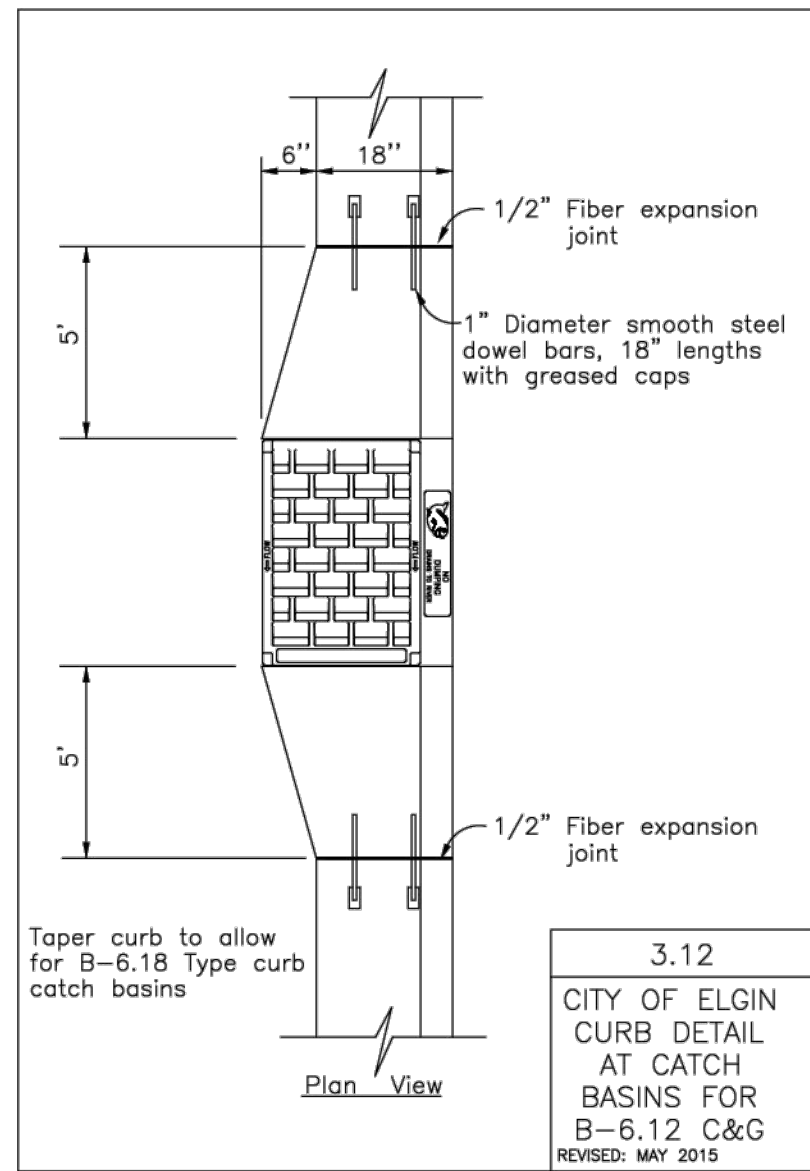
1814 GRANDSTAND PLACE
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ELGIN
1260, 1262, 1264 CEDAR AVE
CITY OF ELGIN
DETAILS SHEET 2

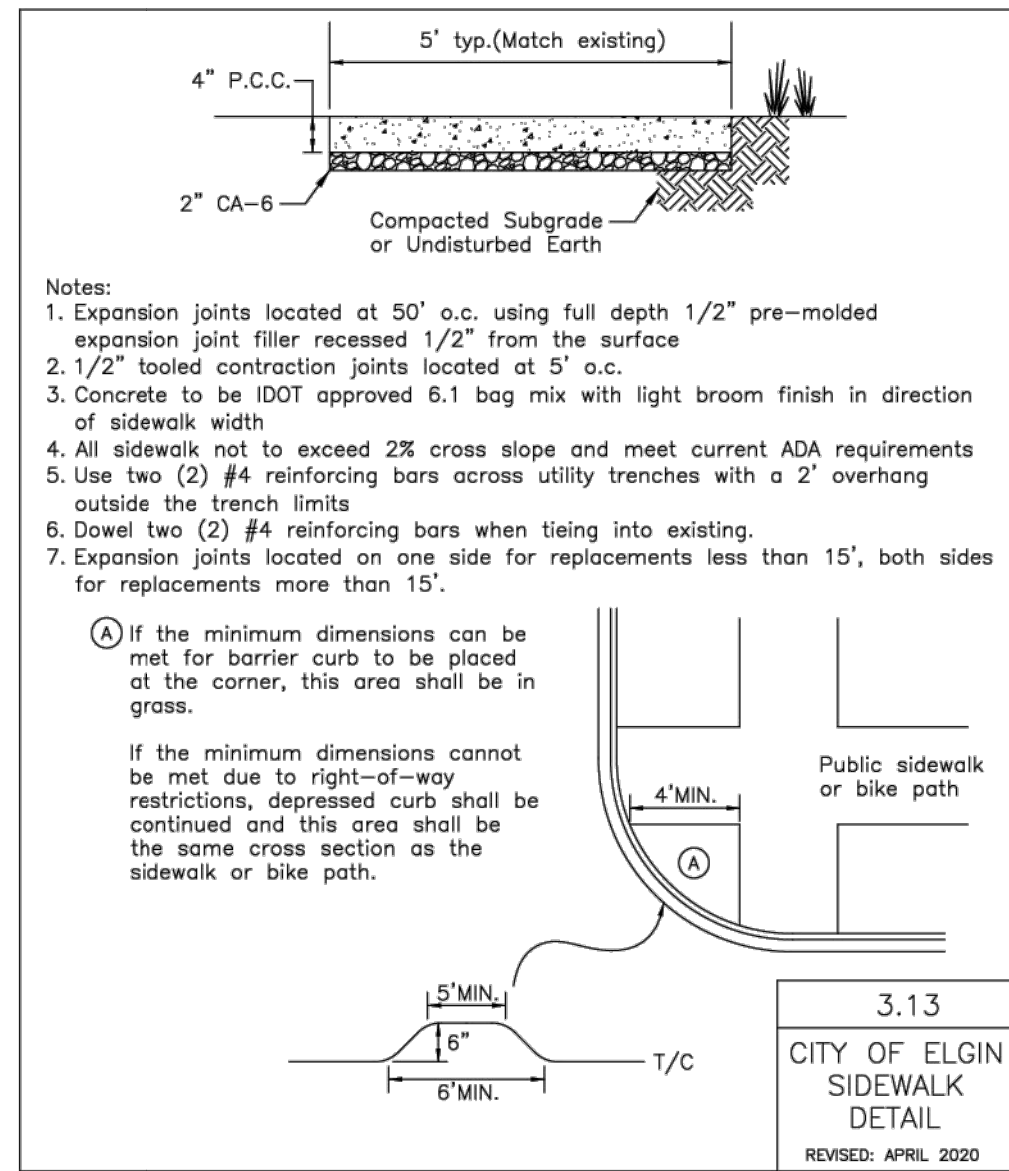
SCALE	NONE	DATE	5/21/24
DRAWN BY	PCS	JOB NO.	6007
CHECKED BY	FCC	SHEET NO.	9 of 10



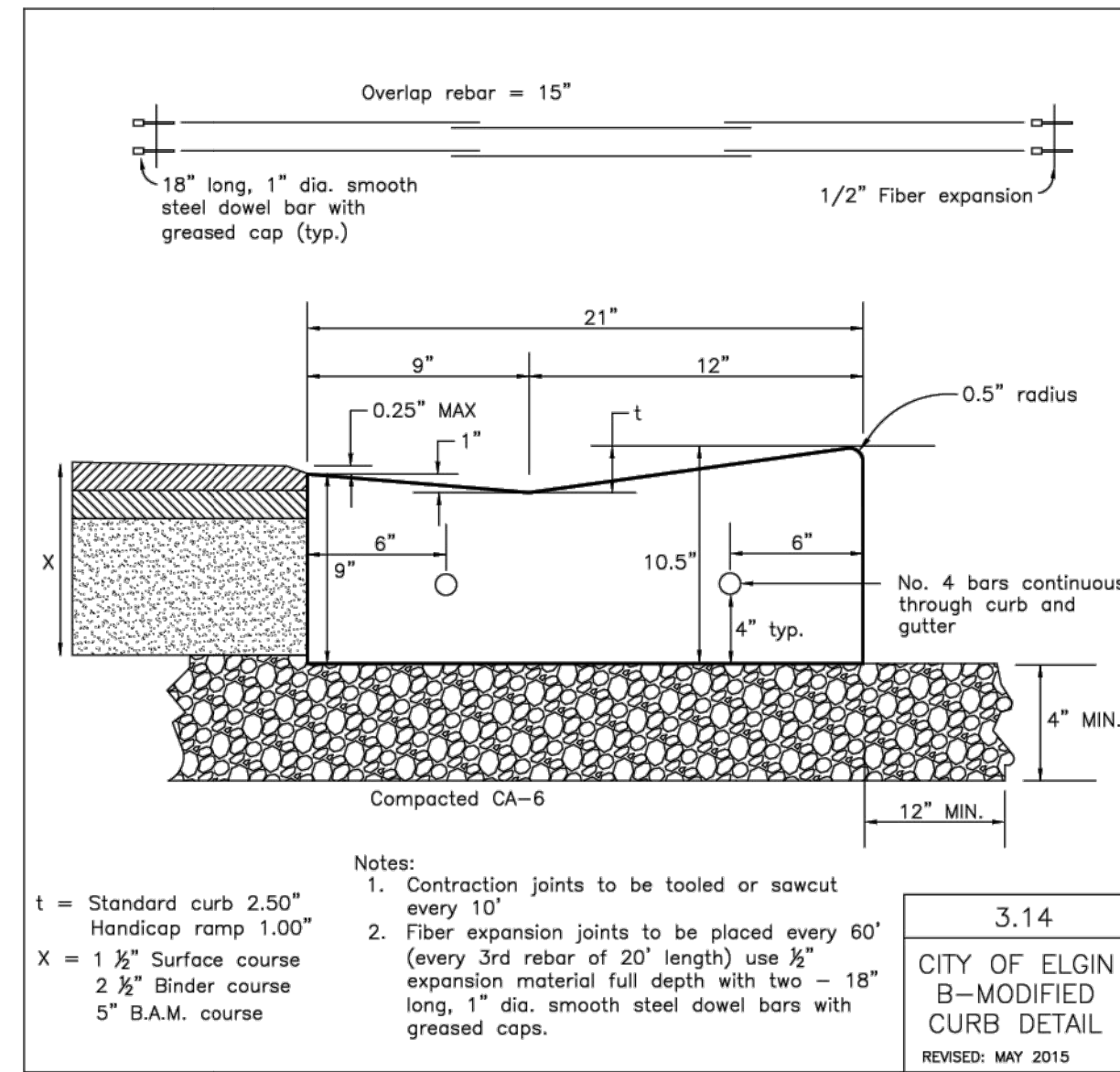
3.11
CITY OF ELGIN
STREET CUT
REPAIR
STANDARD
REVISED: MARCH 2020



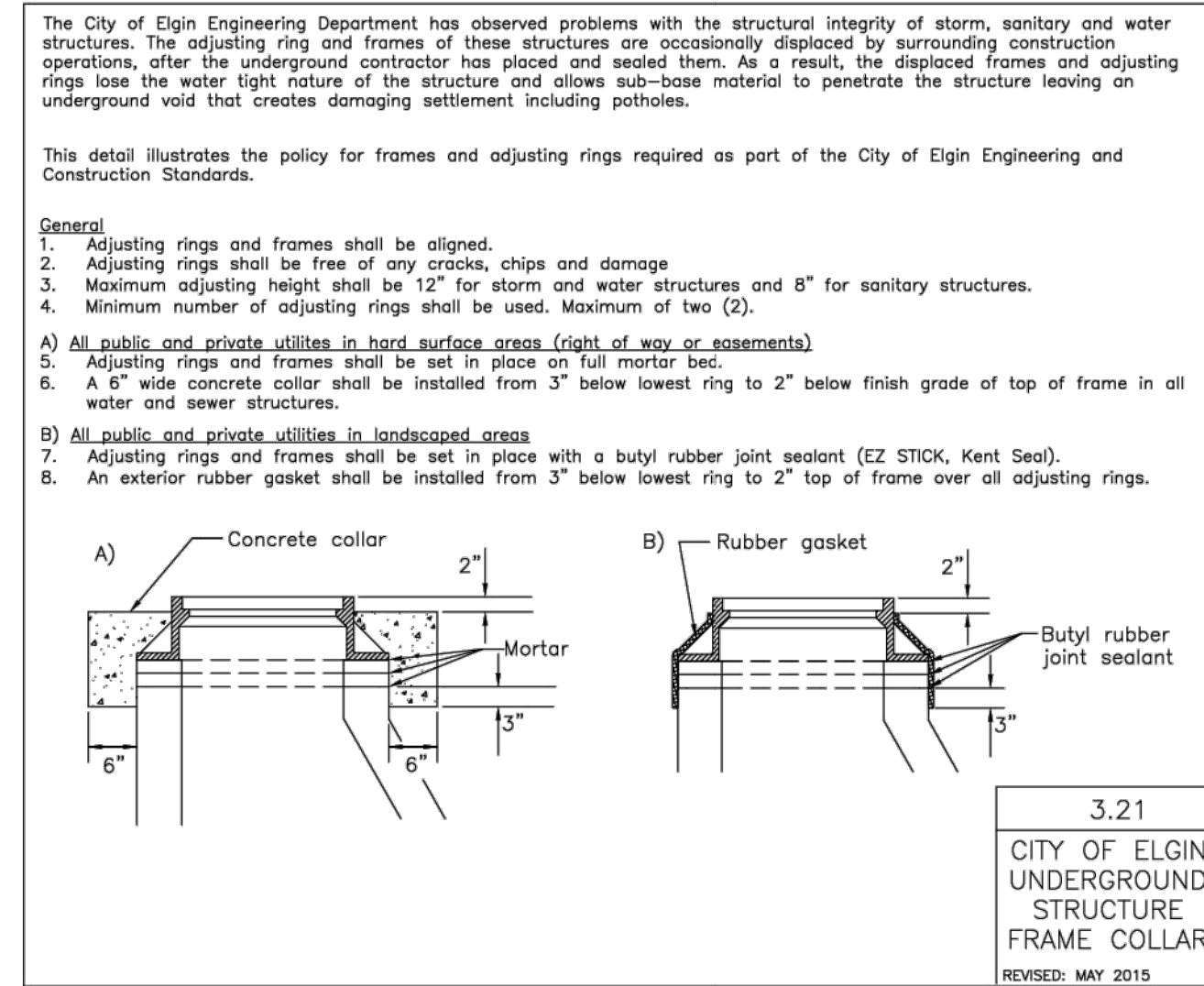
3.12
CITY OF ELGIN
CURB DETAIL
AT CATCH
BASINS FOR
B-6.12 C&G
REVISED: MAY 2015



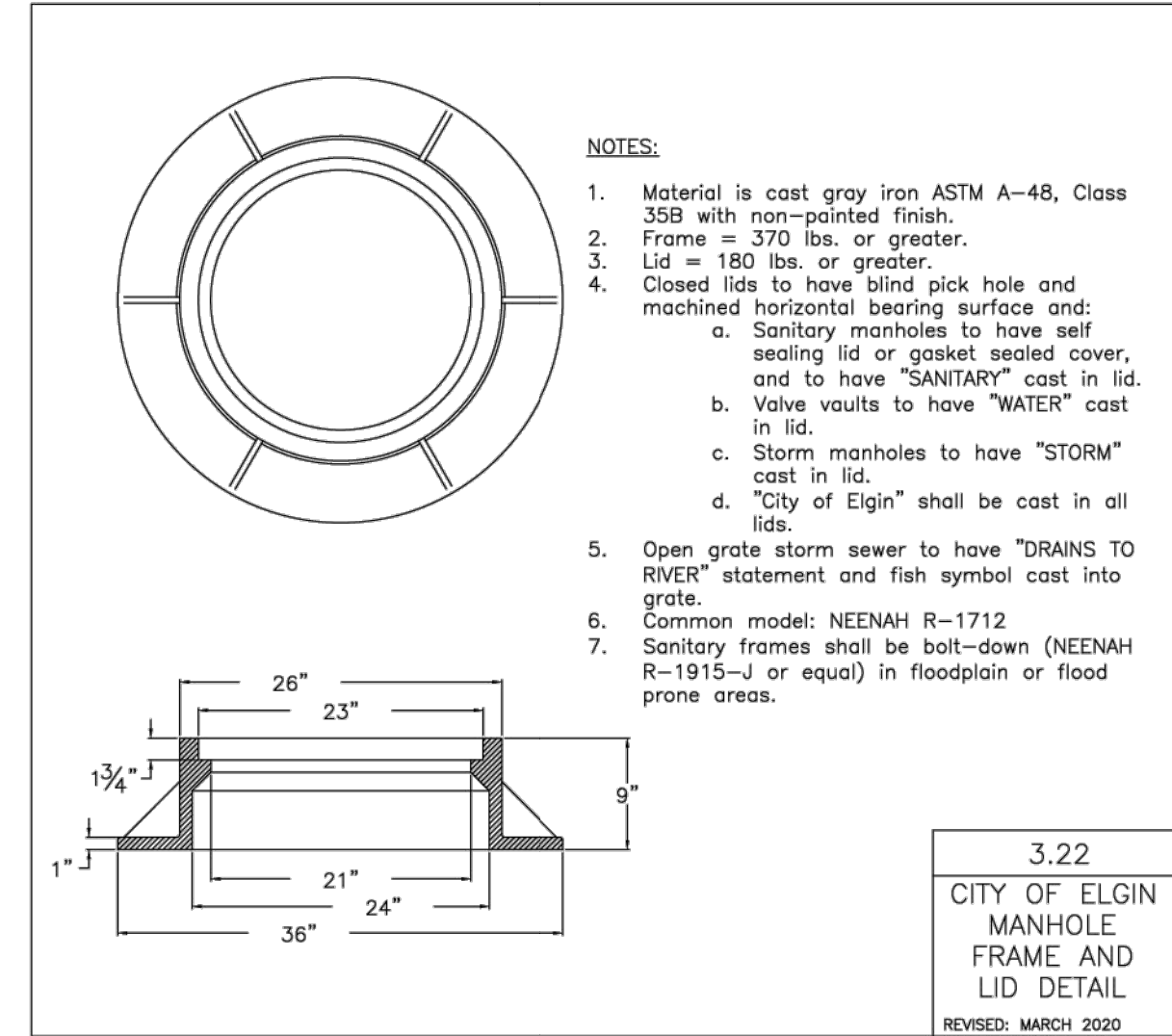
3.13
CITY OF ELGIN
SIDEWALK
DETAIL
REVISED: APRIL 2020



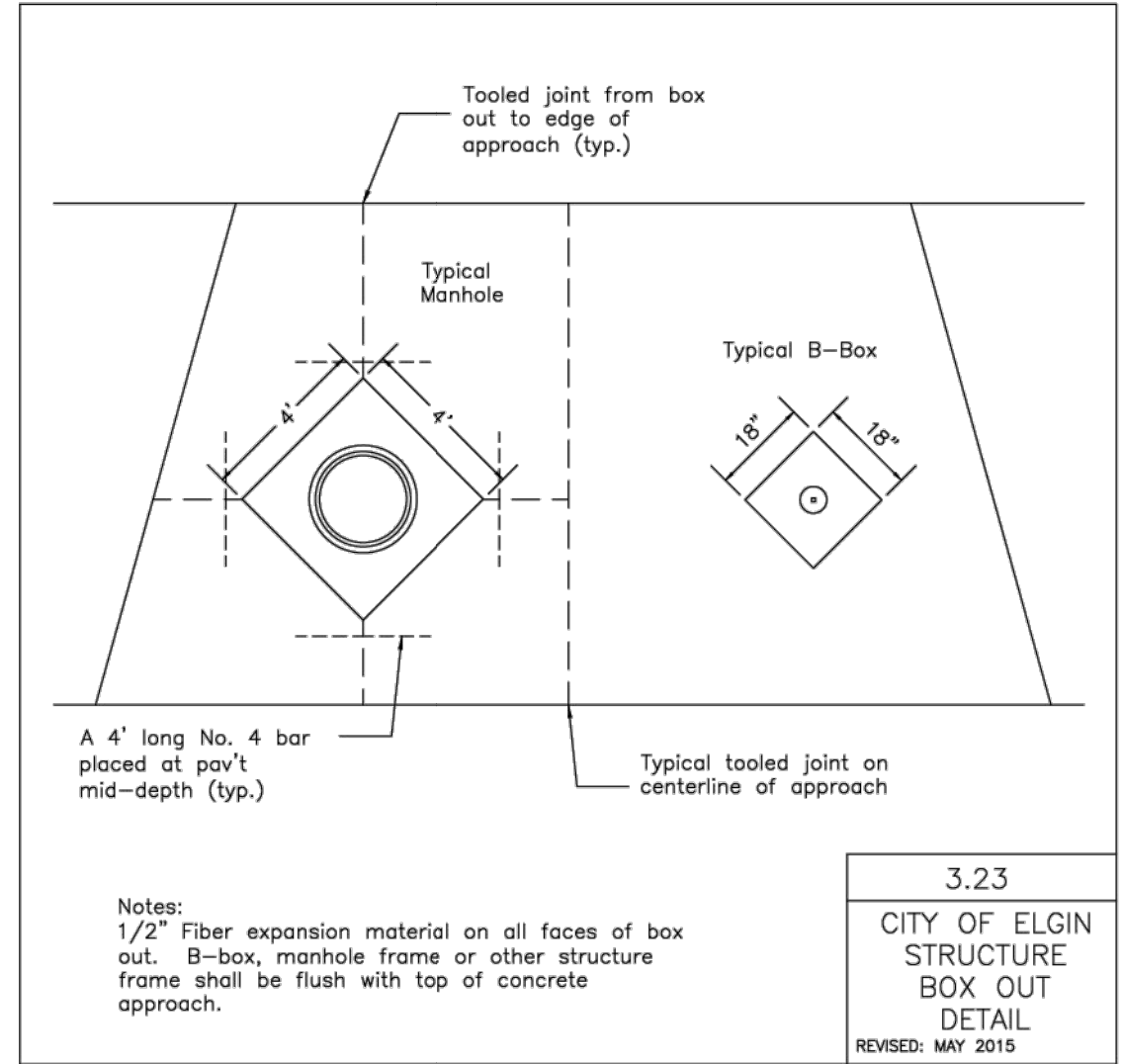
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CITY OF ELGIN
B-MODIFIED
CURB DETAIL
REVISED: MAY 2015



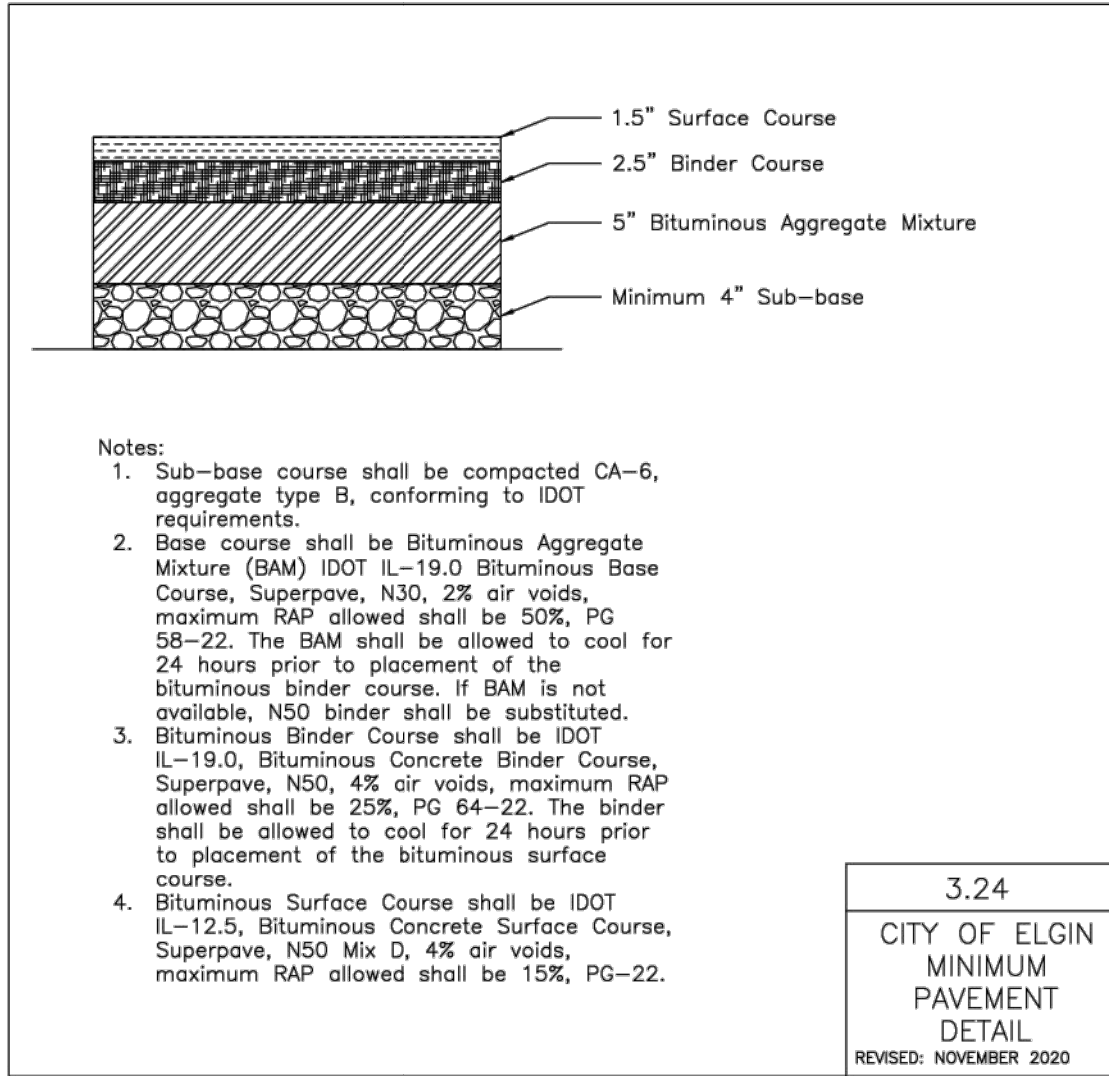
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CITY OF ELGIN
UNDERGROUND
STRUCTURE
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REVISED: MAY 2015



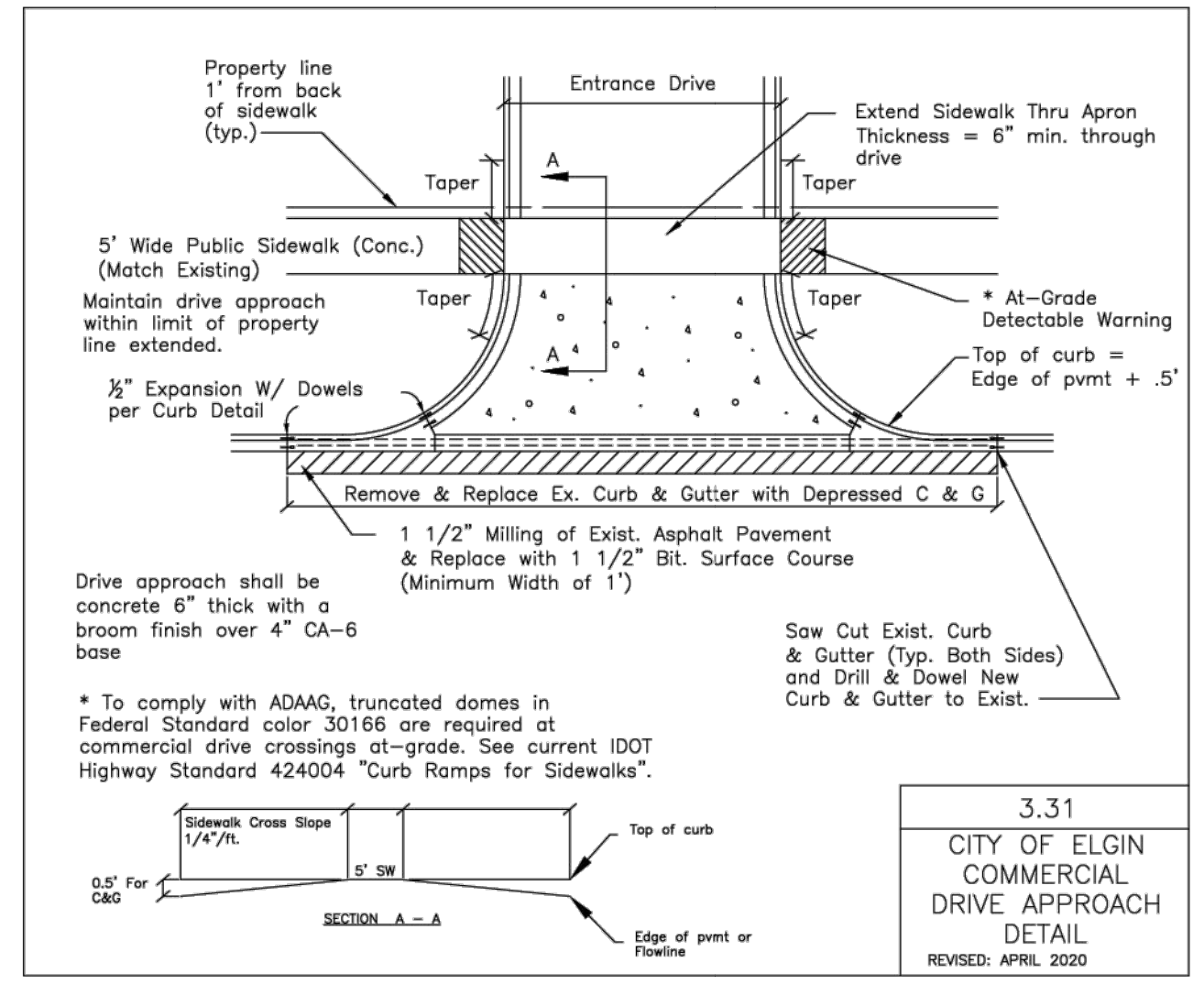
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CITY OF ELGIN
MANHOLE
FRAME AND
LID DETAIL
REVISED: MARCH 2020



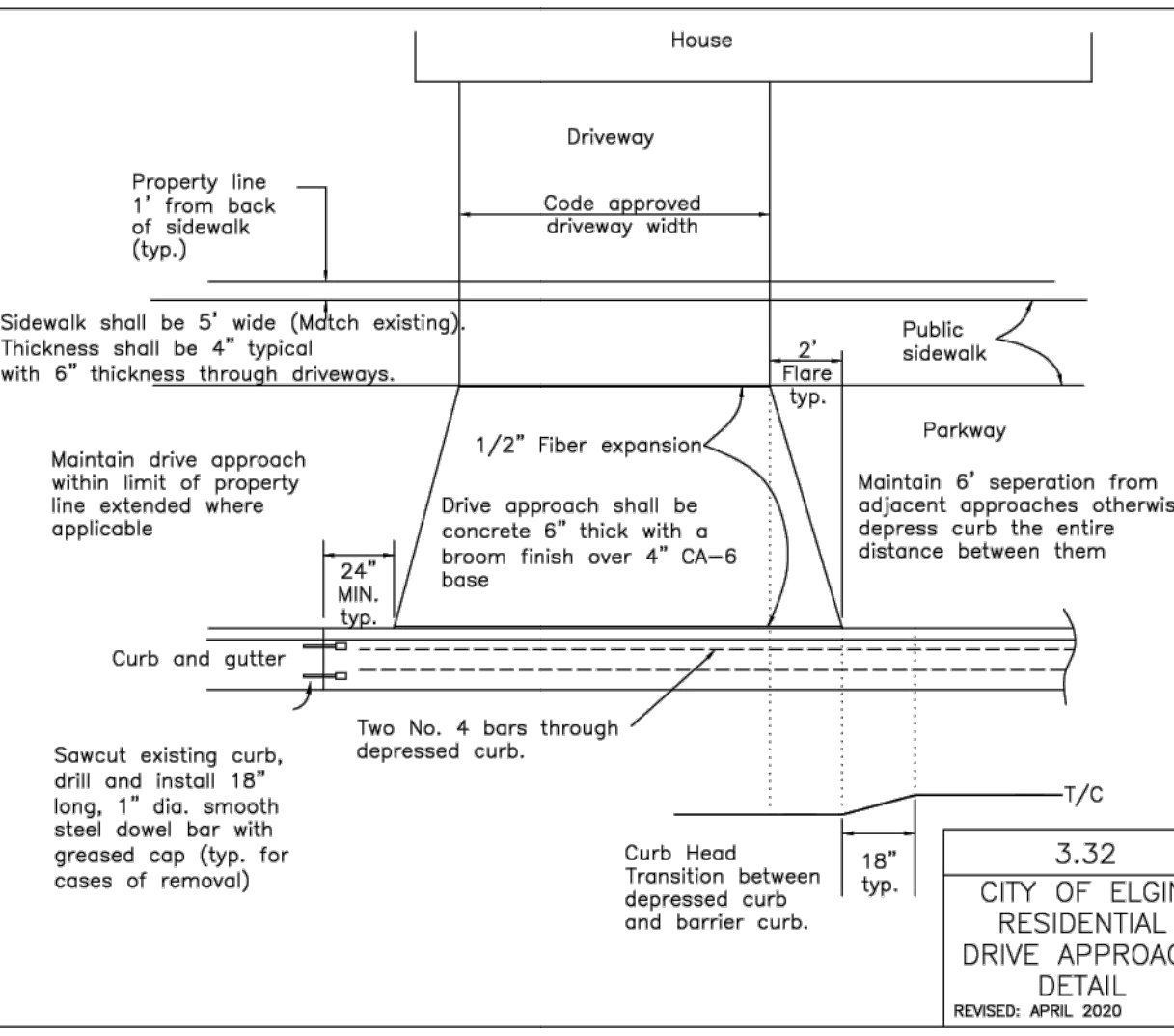
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CITY OF ELGIN
STRUCTURE
BOX OUT
DETAIL
REVISED: MAY 2015



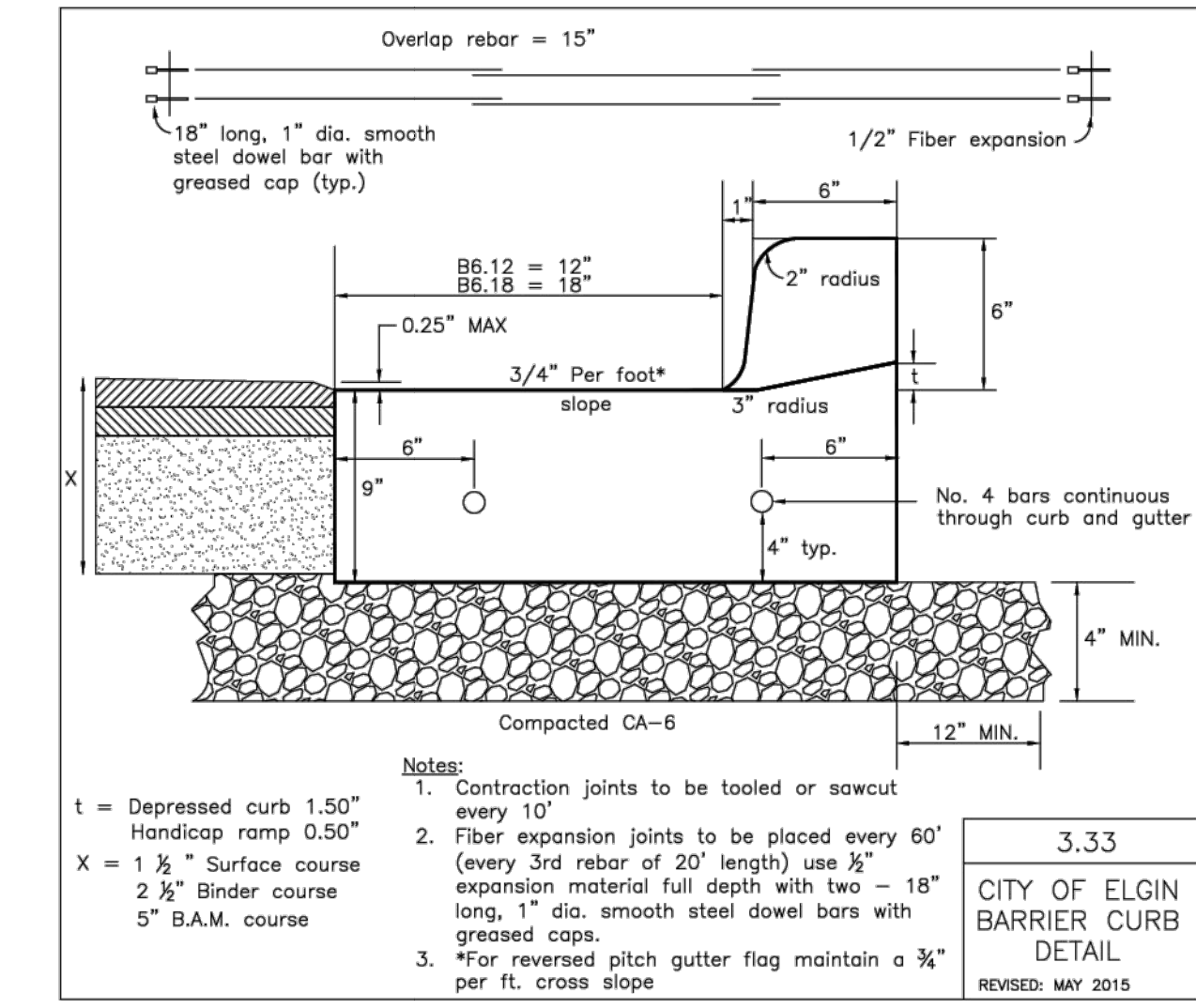
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CITY OF ELGIN
MINIMUM
PAVEMENT
DETAIL
REVISED: NOVEMBER 2020



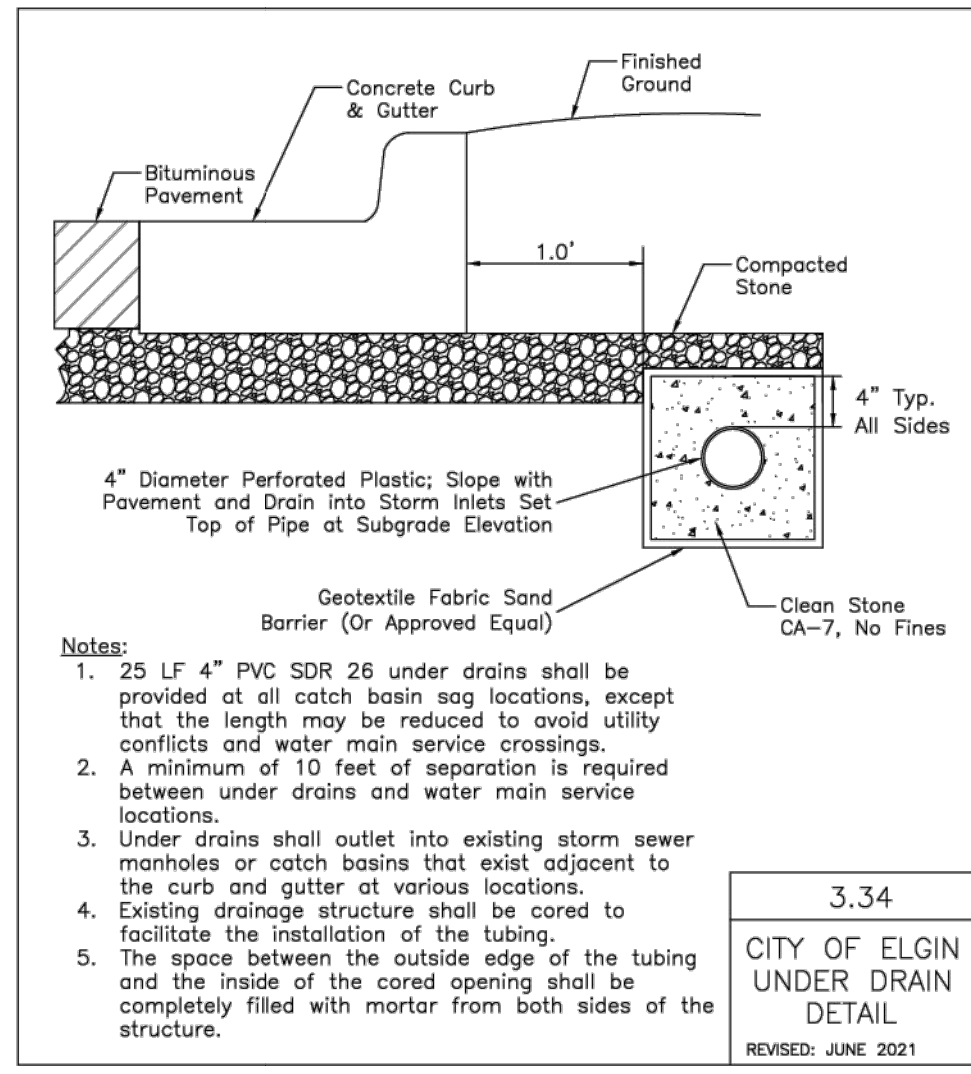
3.31
CITY OF ELGIN
COMMERCIAL
DRIVE APPROACH
DETAIL
REVISED: APRIL 2020



3.32
CITY OF ELGIN
RESIDENTIAL
DRIVE APPROACH
DETAIL
REVISED: APRIL 2020



3.33
CITY OF ELGIN
BARRIER CURB
DETAIL
REVISED: MAY 2015



3.34
CITY OF ELGIN
UNDER DRAIN
DETAIL
REVISED: JUNE 2021

DATE	12/22/2020
DESIGNED BY	BS
CHECKED BY	BS
DATE	10/23/2021
DESIGNED BY	BS
CHECKED BY	BS

STANDARD
DETAILS

CITY OF ELGIN
1900 Holmes Road
Elgin, IL 60123
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ENGINEERING
DEPARTMENT



PROJ. NO.	
PROJ. ENGR.	
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CHECKED BY	
DATE	12-04-20
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SHEET	3 OF 3

#	DATE	REMARKS
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DETAILS SHEET 3

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SCALE	NONE	DATE	5/21/24
DRAWN BY	PCS	JOB NO.	6007
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