

# DEVELOPMENT PLANS

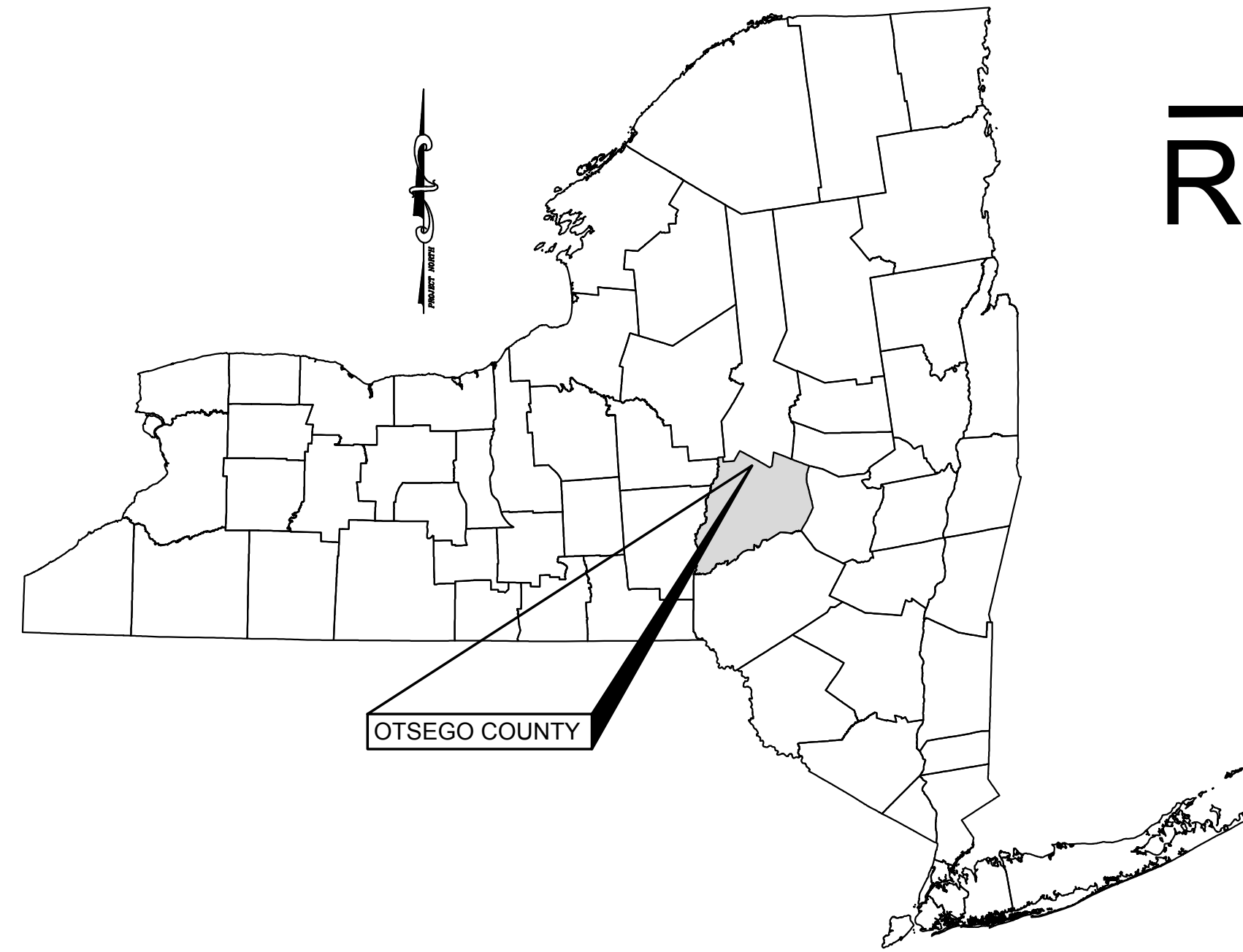
# OTSEGO COUNTY IDA

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## RICHFIELD SPRINGS ECO-INDUSTRIAL BUSINESS PARK

## ROAD AND UTILITY EXTENSION

EDA PROJECT NUMBER - 01-01-14979



TOWN OF RICHFIELD

COUNTY OF OTSEGO

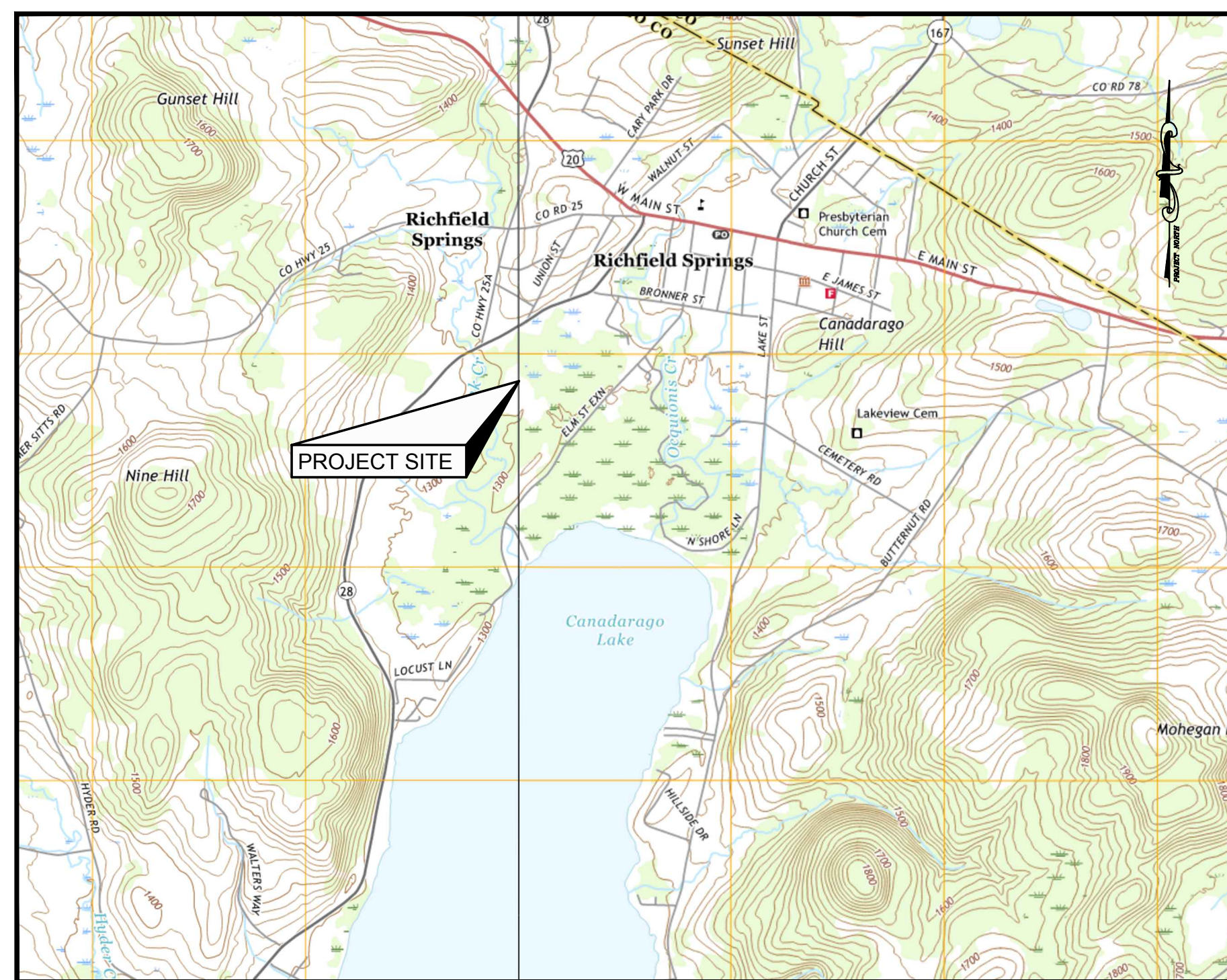
STATE OF NEW YORK

APPLICANT/DEVELOPER:

COUNTY OF OTSEGO INDUSTRIAL  
DEVELOPMENT AGENCY  
189 MAIN STREET, SUITE 500  
ONEONTA, NEW YORK 13820

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LOCATION MAP  
SCALE 1"=2000'

DRAWINGS PREPARED BY



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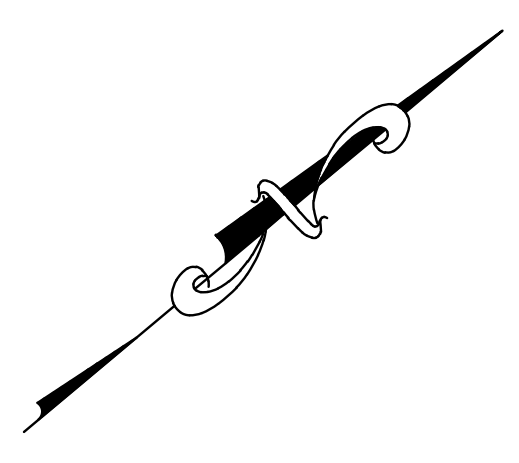


MARK W. PARKER, P.E. LIC. No. 093972  
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PROJECT NO. 0552.04219.1

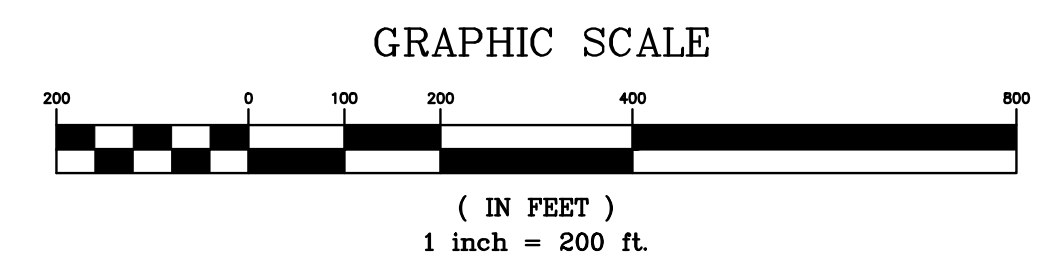
FEBRUARY 15, 2021  
REVISED: JANUARY 19, 2023





**LEGEND**

- SIGN
- UTILITY POLE
- OVERHEAD UTILITIES
- GUY WIRE
- DECIDUOUS TREE
- SANITARY SEWER MANHOLE
- STORM MANHOLE
- CATCH BASIN
- SIGNIFICANT PHASE I CULTURAL RESOURCE LOCATION
- SIGNIFICANT PHASE II CULTURAL RESOURCE AREA
- NON JURISDICTIONAL WETLAND
- WETLAND AREA'S UNDER BOTH FEDERAL ARMY CORPS OF ENGINEERS (ACOE) AND NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION (NYSDEC) JURISDICTION TO BE PROTECTED.



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**OTSEGO COUNTY IDA  
RICHFIELD SPRINGS ECO-INDUSTRIAL  
BUSINESS PARK ROAD & UTILITY EXTENSION  
TOWN OF RICHFIELD  
OTSEGO COUNTY, NY**

**EXISTING SITE CONDITIONS**

SHEET NO.  
**C010**

PROJECT NO.  
0552.04219.1

DATE: 02/15/21

CAD FILE NO: 0552.04219.1-Site

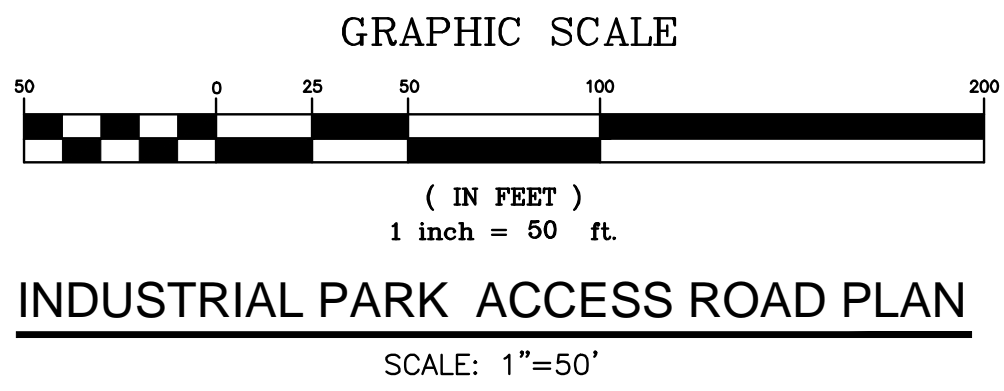
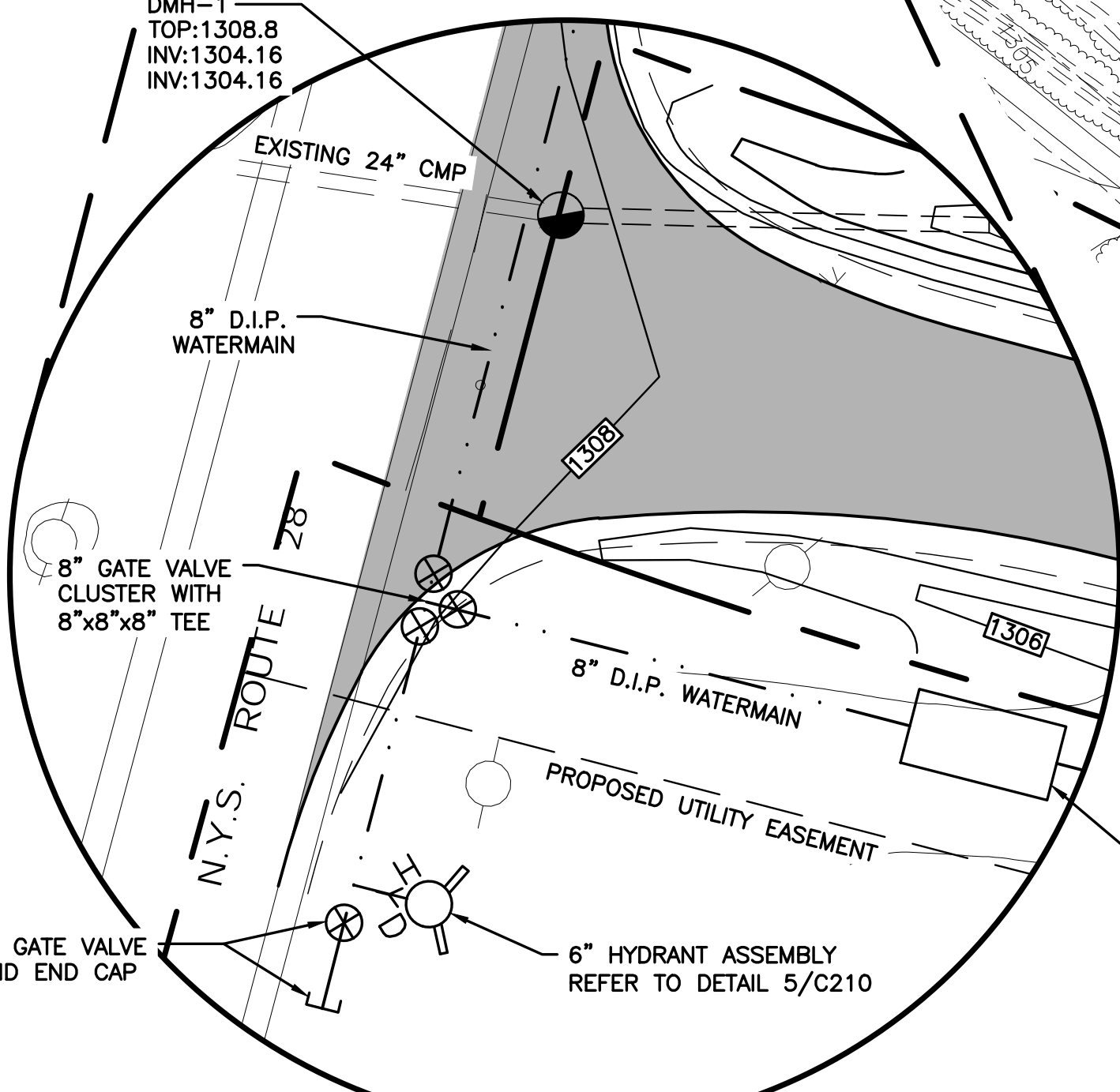
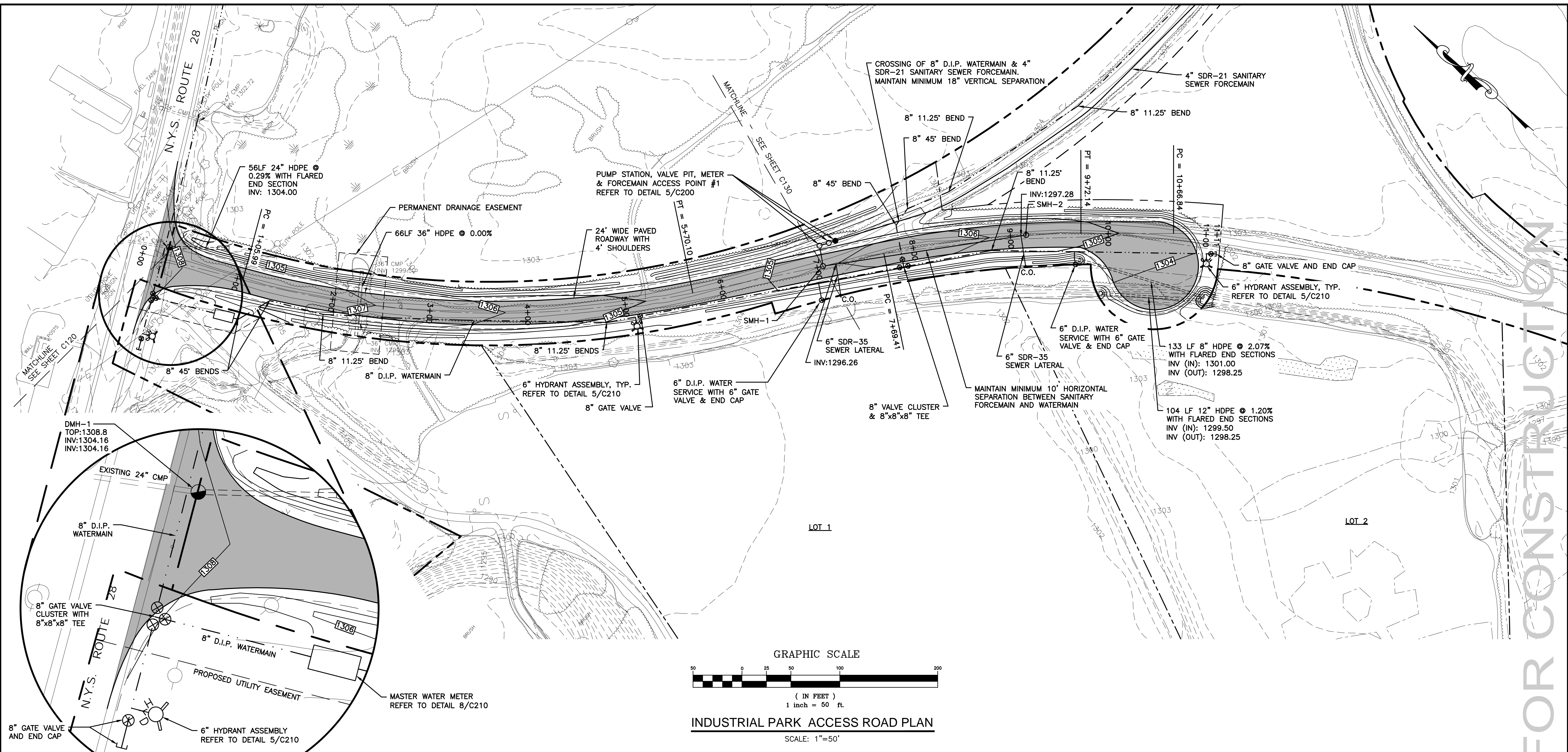
NO. REVISED/DATE

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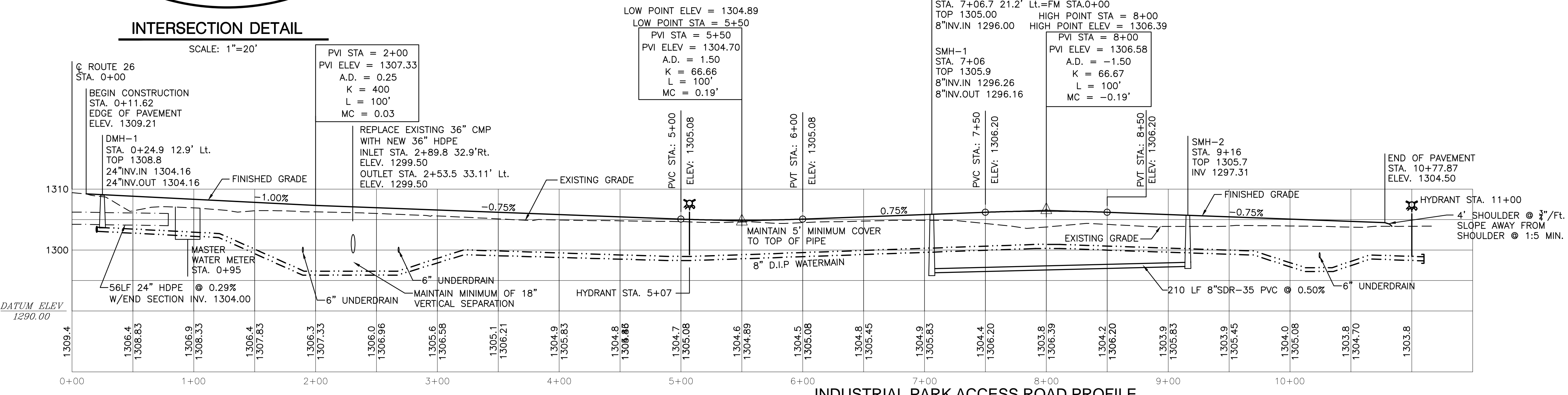








INDUSTRIAL PARK ACCESS ROAD PLAN  
SCALE: 1"=50'



INDUSTRIAL PARK ACCESS ROAD PROFILE  
SCALE: HORIZONTAL 1"=50'  
VERTICAL 1"=10'

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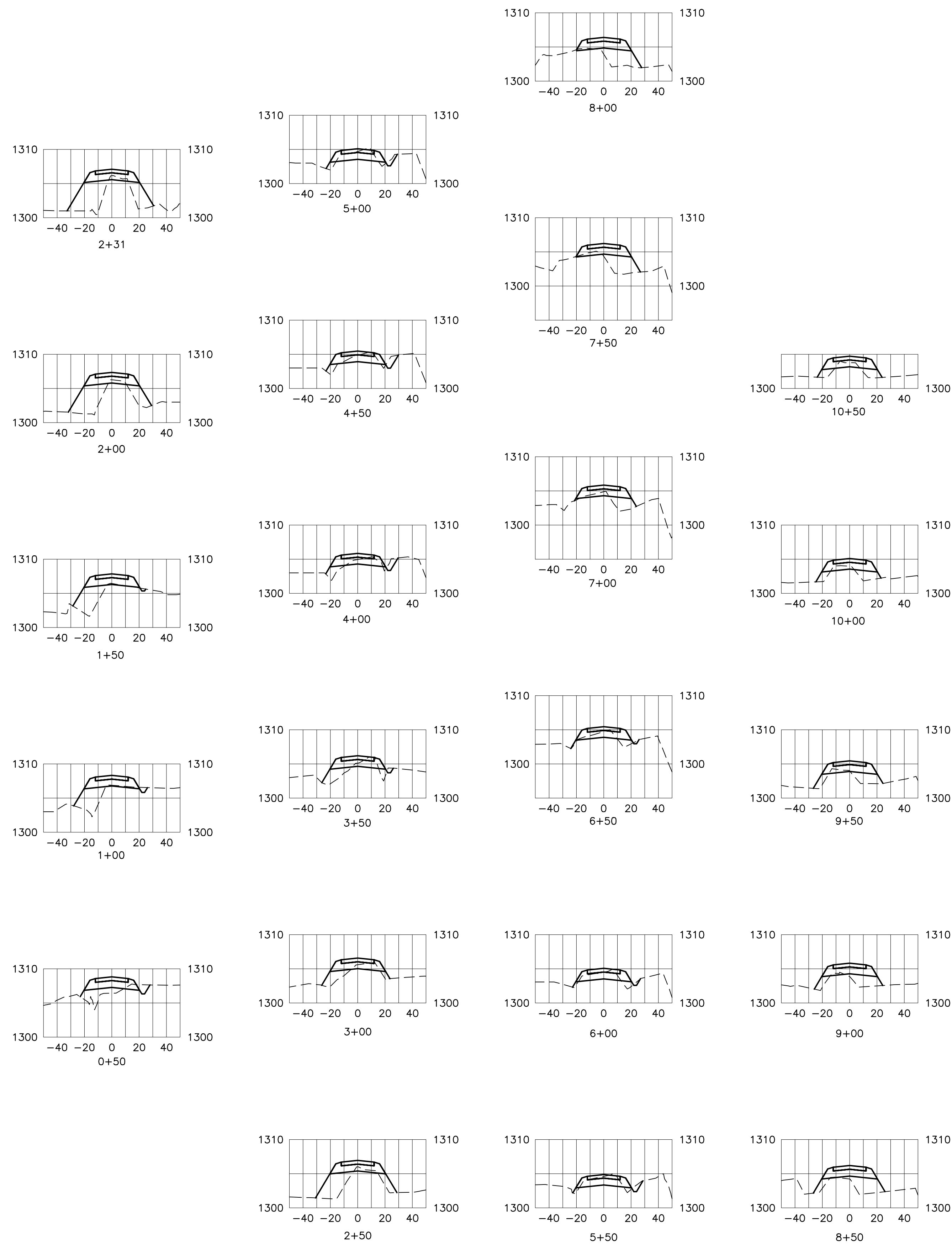
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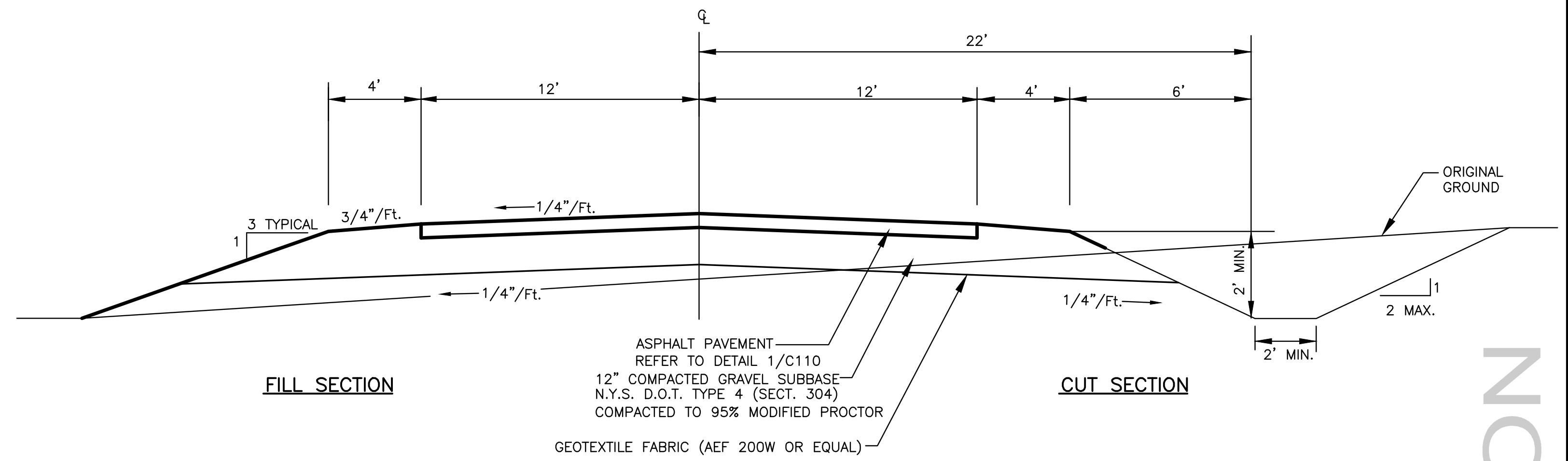
OTSEGO COUNTY IDA  
RICHFIELD SPRINGS ECO-INDUSTRIAL  
BUSINESS PARK ROAD & UTILITY EXTENSION  
TOWN OF RICHFIELD  
OTSEGO COUNTY, NY  
ACCESS ROAD PLAN & PROFILE

SHEET NO.  
**C100**  
PROJECT NO.  
0552.04219.1  
DATE: 02/15/21  
CAD FILE NO. 0552.04219.1-PROFILE

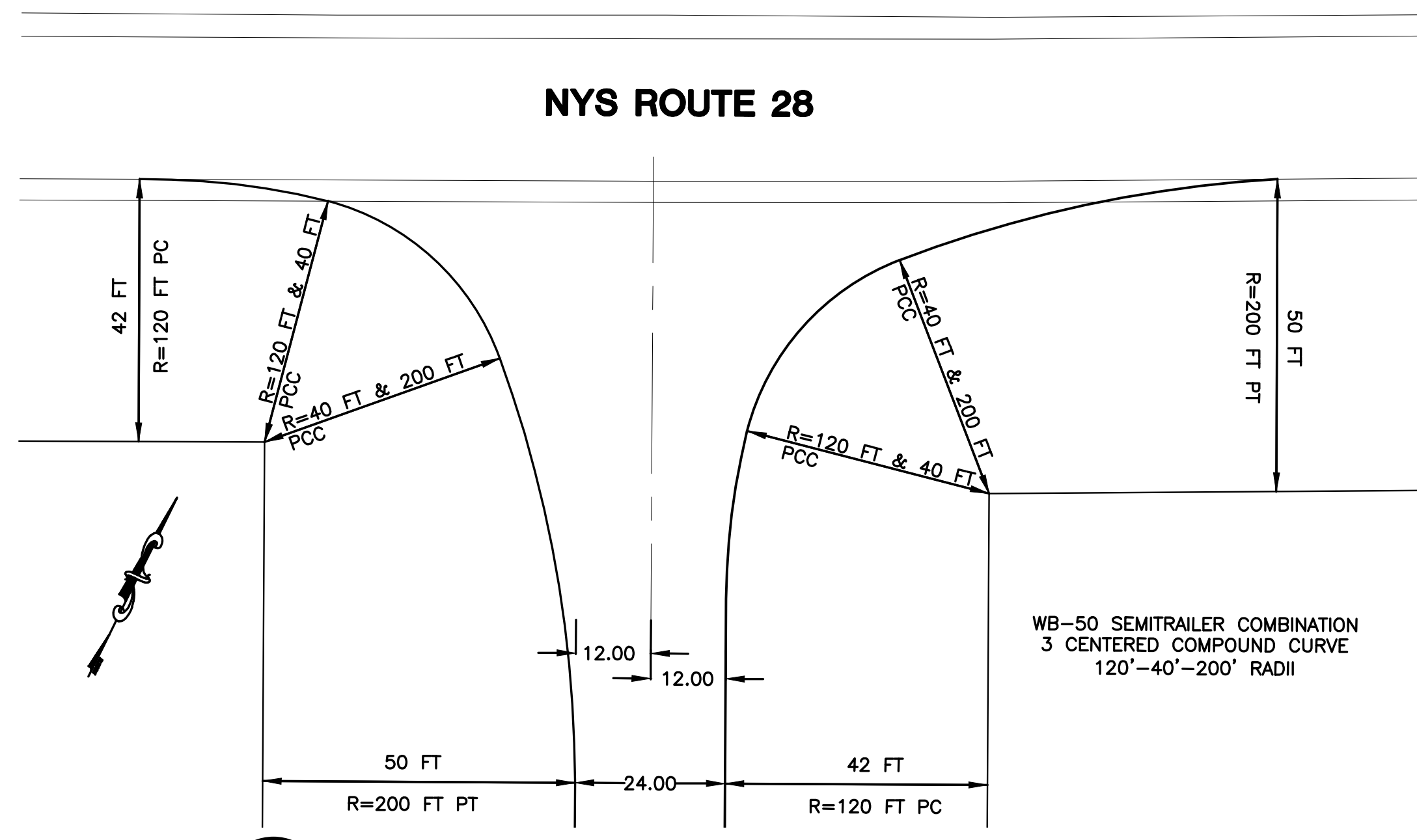




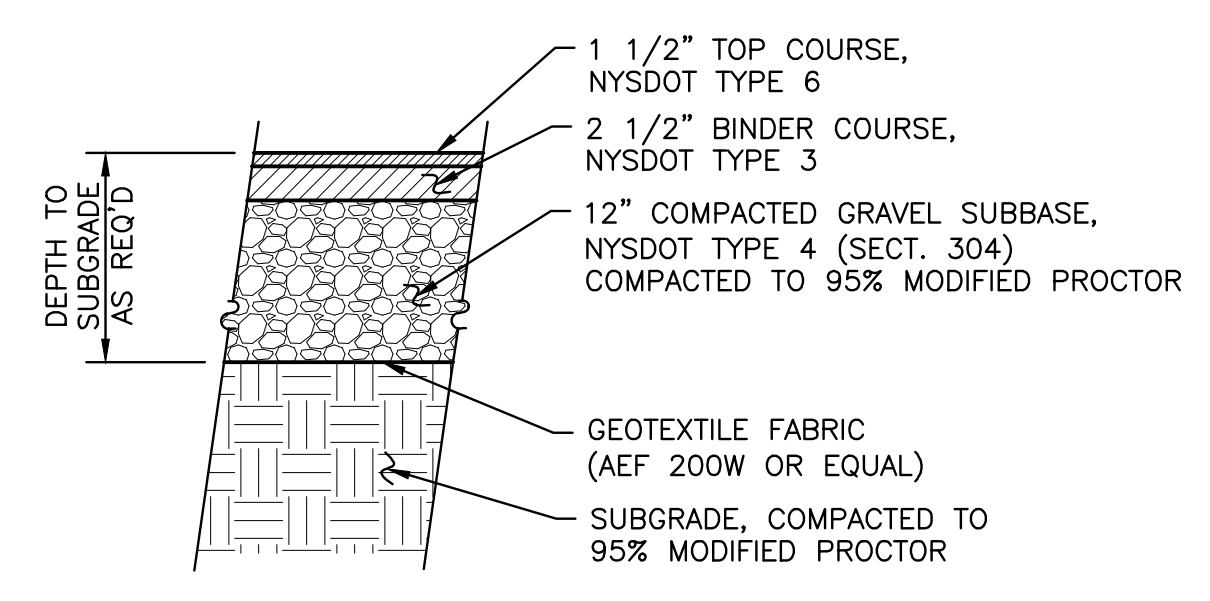
**5 INDUSTRIAL PARK ACCESS ROAD CROSS SECTIONS**  
 C110 SCALE: HORIZONTAL 1"=50'  
 VERTICAL 1"=10'



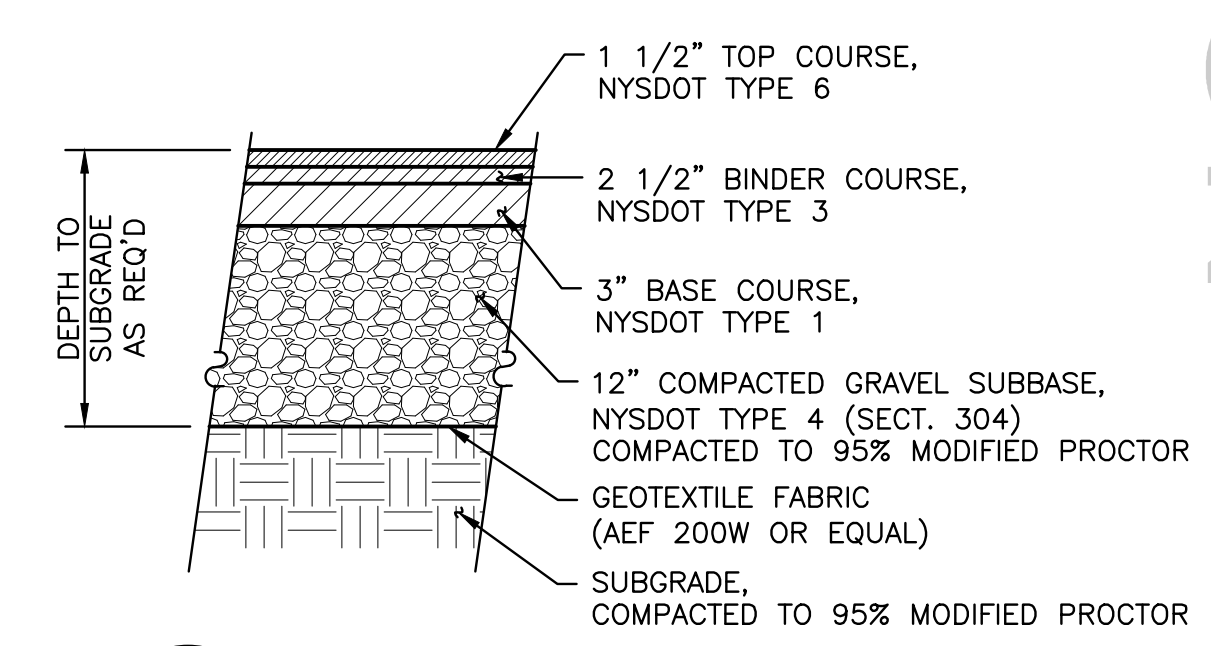
**4 TYPICAL ROADWAY CROSS-SECTION DETAIL**  
 C110 N.T.S.



**3 NYS ROUTE 28 INTERSECTION LAYOUT PLAN**  
 C110 SCALE: 1"=20'



**2 ASPHALT PAVEMENT DETAIL**  
 C110 N.T.S.



**1 HEAVY DUTY ASPHALT DETAIL**  
 C110 N.T.S.

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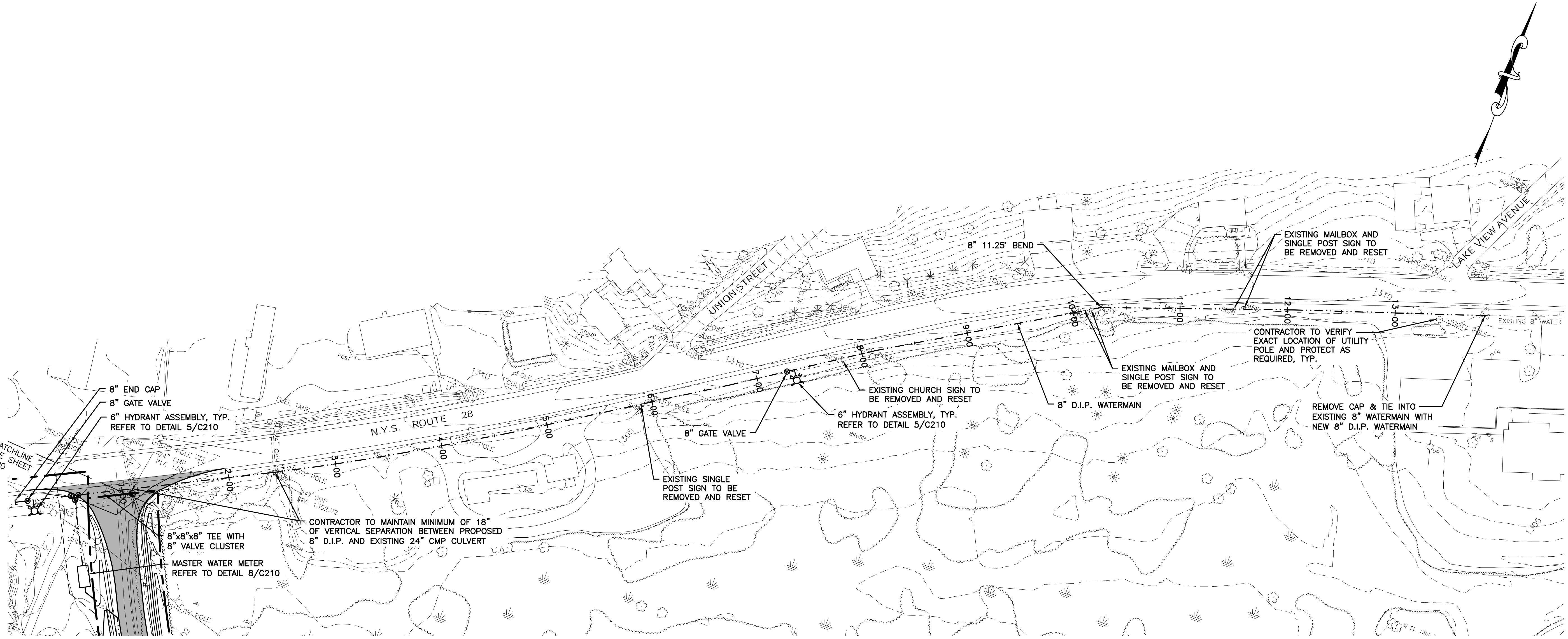
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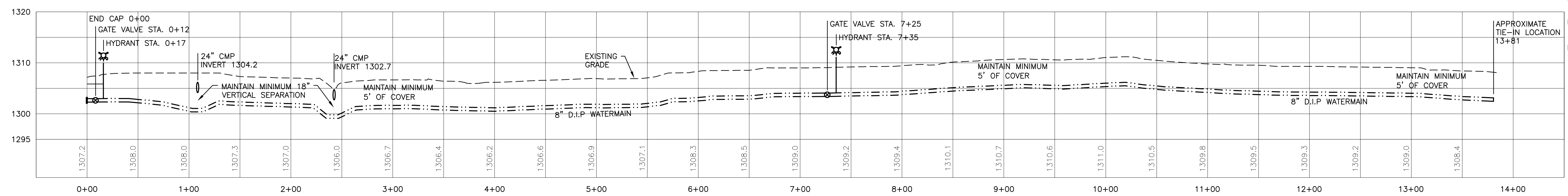
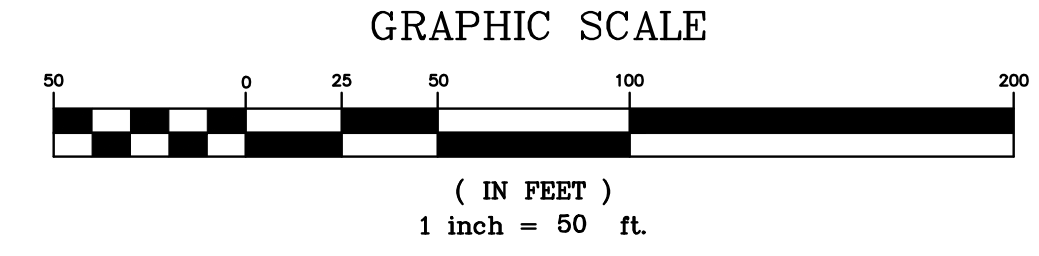
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**RICHFIELD SPRINGS ECO-INDUSTRIAL**  
**BUSINESS PARK ROAD & UTILITY EXTENSION**  
 TOWN OF RICHFIELD  
 OTSEGO COUNTY, NY  
**ACCESS ROAD CROSS SECTIONS**

SHEET NO. **C110**  
 PROJECT NO. 0552.04219.1  
 DATE: 02/15/21  
 CAD FILE NO. 0552.04219.1-PROFILE





N.Y.S. ROUTE 28 WATER MAIN PLAN



N.Y.S. ROUTE 28 WATER MAIN PROFILE

SCALE: HORIZONTAL 1"=50'  
VERTICAL 1"=10'

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TOWN OF RICHFIELD  
OTSEGO COUNTY, NY

**N.Y.S. ROUTE 28 WATER MAIN EXTENSION**

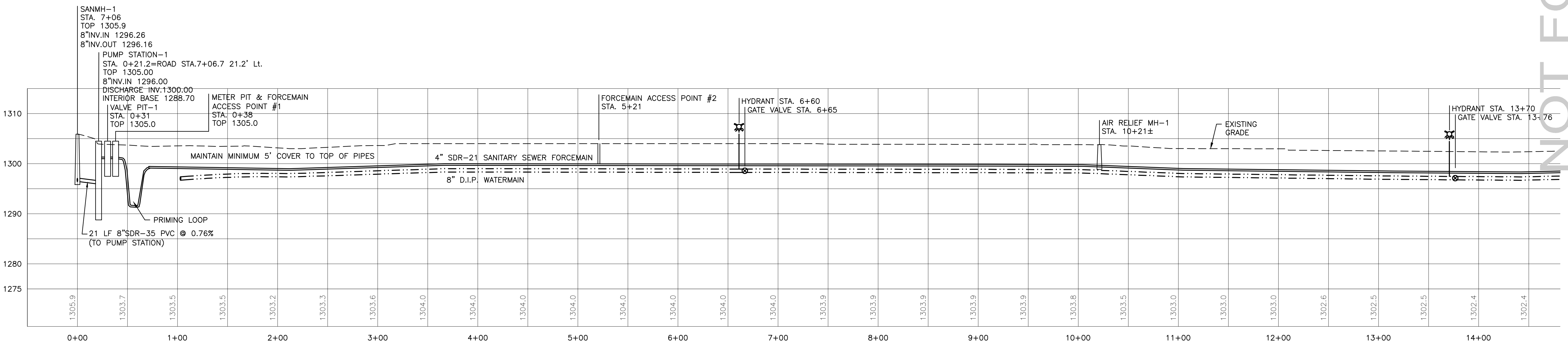
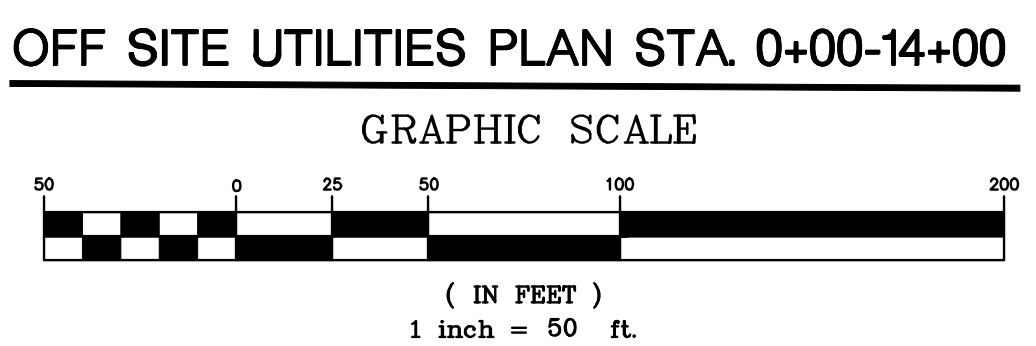
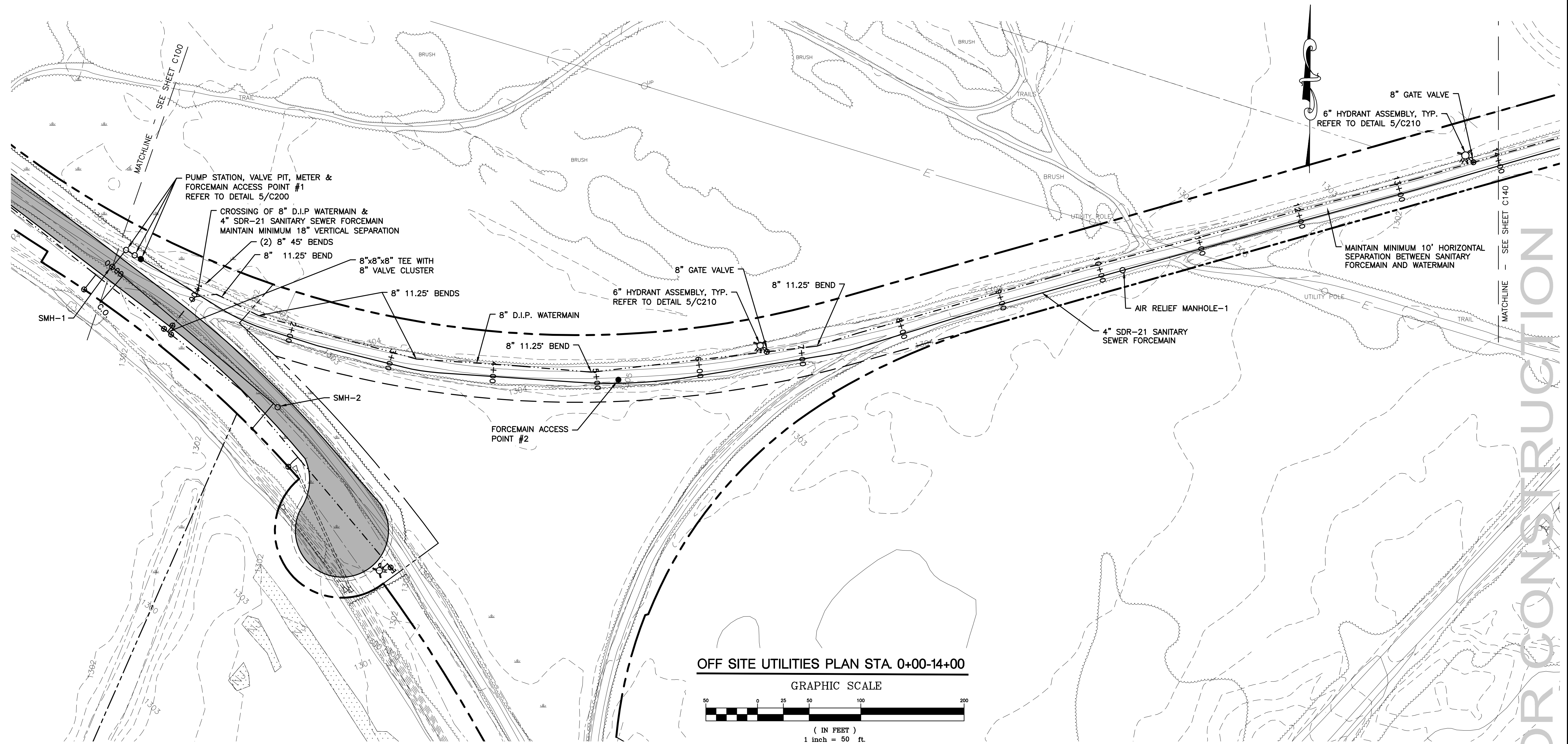
SHEET NO.  
**C120**

PROJECT NO.  
0552.04219.1

DATE: 02/15/21

CAD FILE NO: 0552.04219.1-PROFILE





OFF SITE UTILITIES PROFILE STA. 0+00-14+00  
 SCALE: HORIZONTAL 1"=50'  
 VERTICAL 1"=10'

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 BUSINESS PARK ROAD & UTILITY EXTENSION  
 TOWN OF RICHFIELD  
 OTSEGO COUNTY, NY

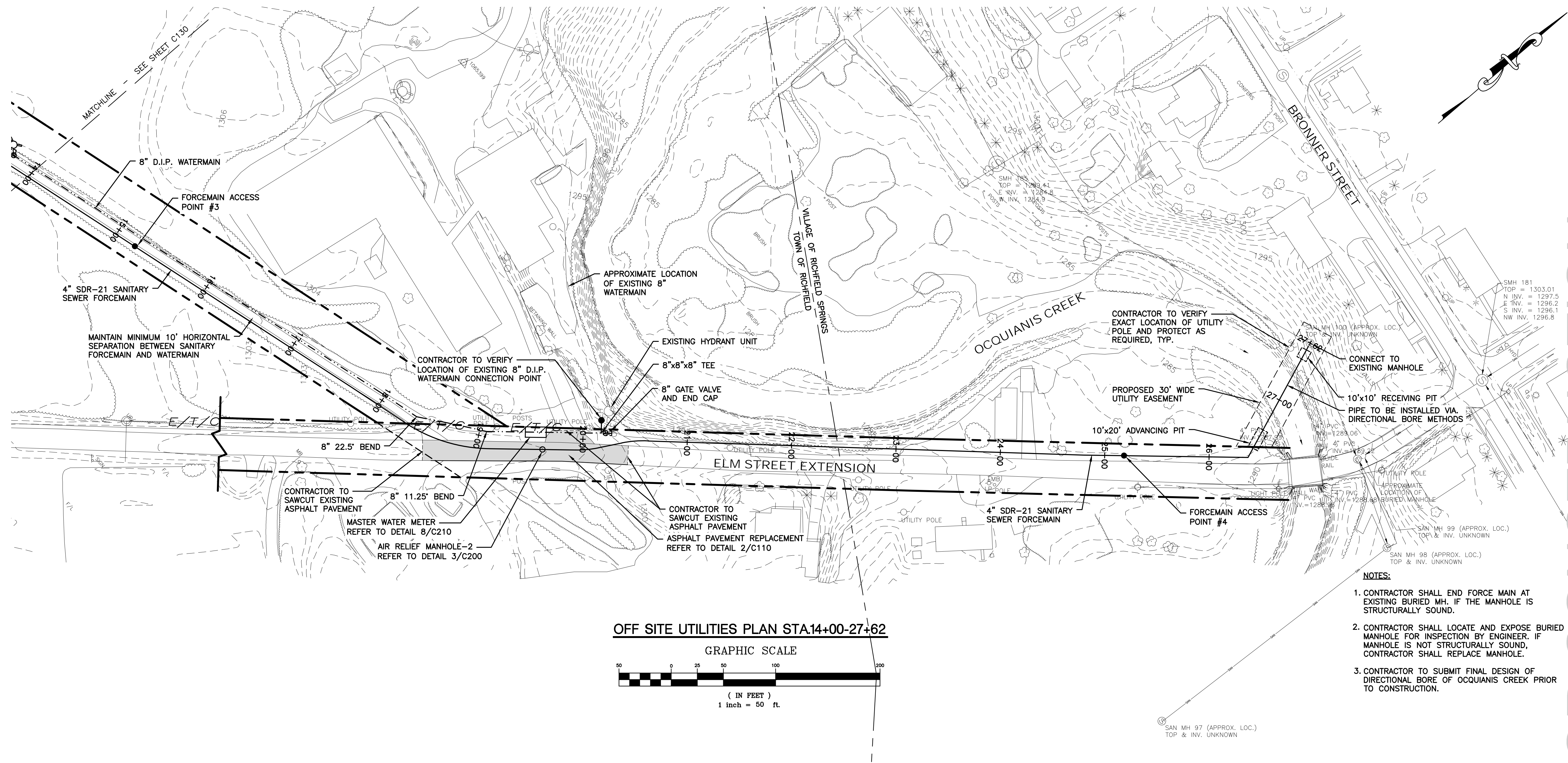
OFF SITE UTILITIES PLAN & PROFILE

SHEET NO.  
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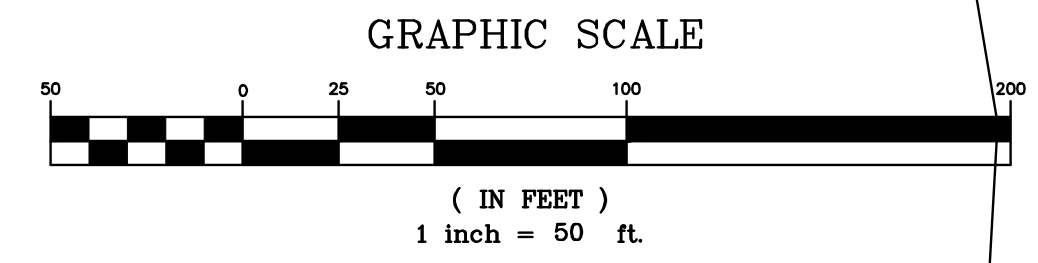
PROJECT NO.  
 0552.04219.1

DATE: 02/15/21  
 CAD FILE NO: 0552.04219.1-PROFILE

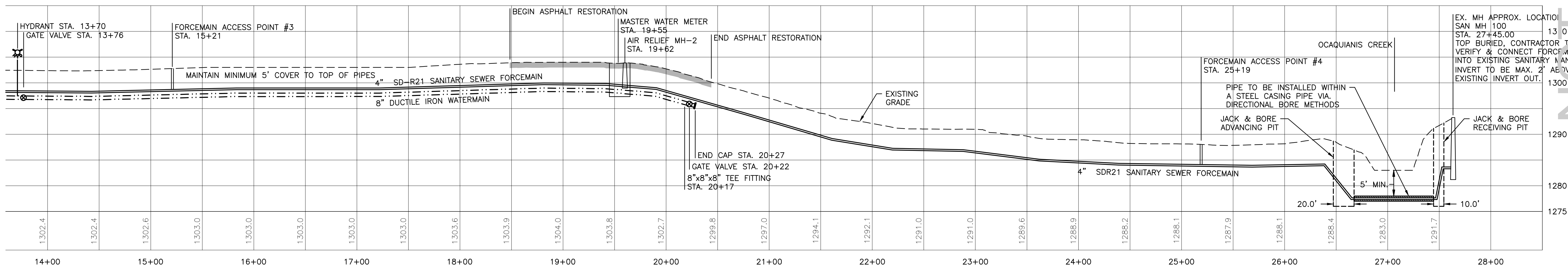




OFF SITE UTILITIES PLAN STA.14+00-27+62



- NOTES:**
1. CONTRACTOR SHALL END FORCE MAIN AT EXISTING BURIED MH. IF THE MANHOLE IS STRUCTURALLY SOUND.
  2. CONTRACTOR SHALL LOCATE AND EXPOSE BURIED MANHOLE FOR INSPECTION BY ENGINEER. IF MANHOLE IS NOT STRUCTURALLY SOUND, CONTRACTOR SHALL REPLACE MANHOLE.
  3. CONTRACTOR TO SUBMIT FINAL DESIGN OF DIRECTIONAL BORE OF OCCUQUANIS CREEK PRIOR TO CONSTRUCTION.



OFF SITE UTILITIES PROFILE STA.14+00-27+62

SCALE: HORIZONTAL 1"=50'  
VERTICAL 1"=10'

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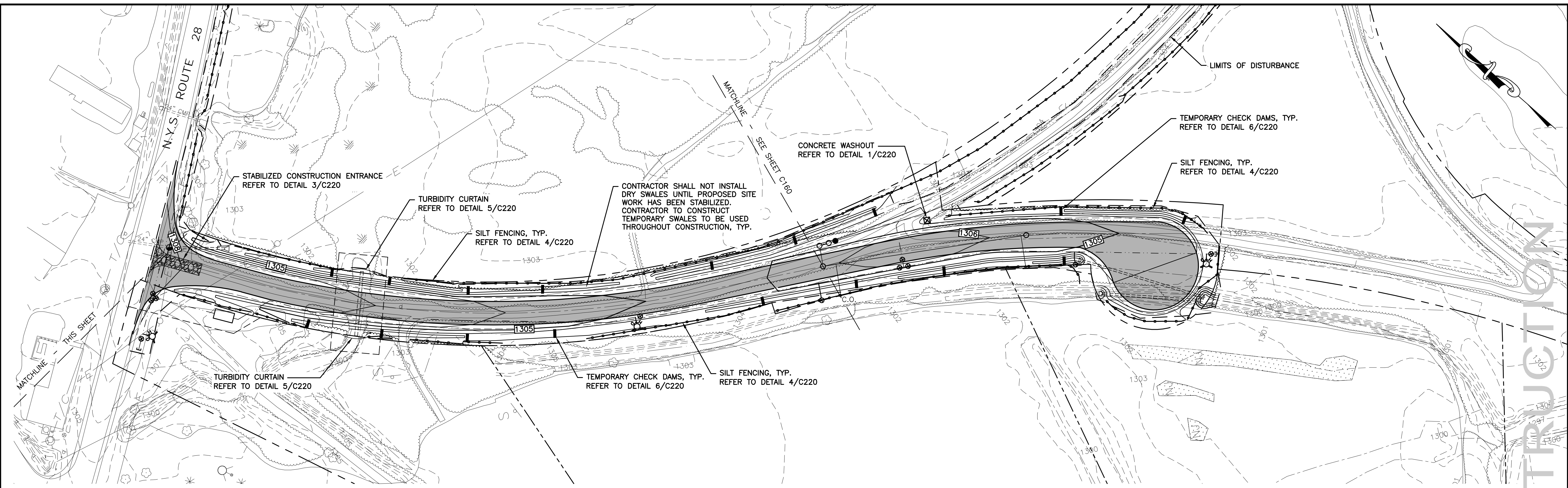
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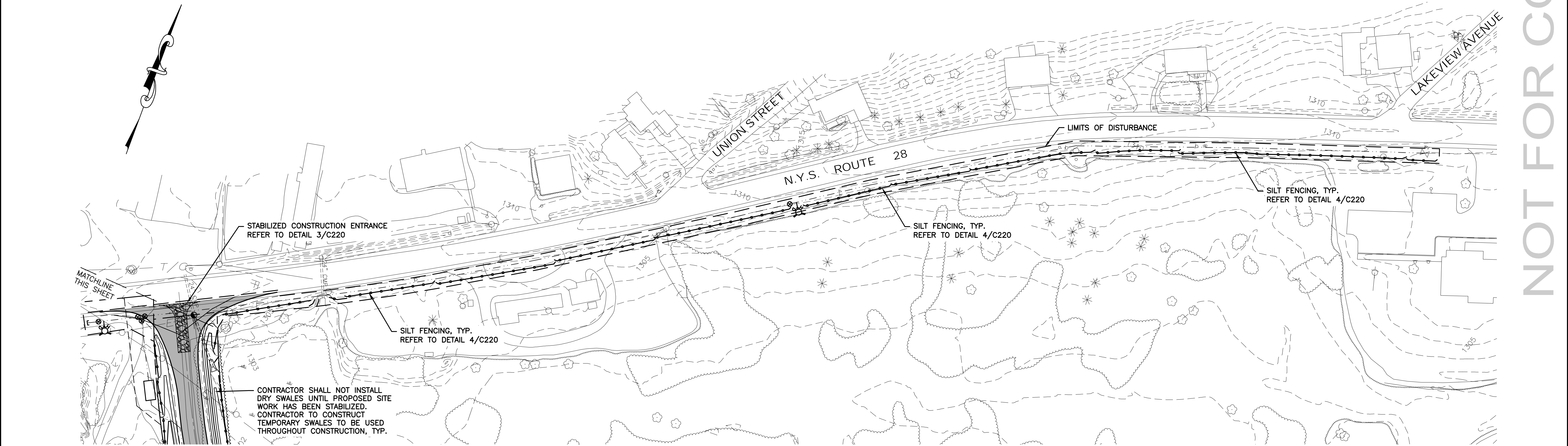
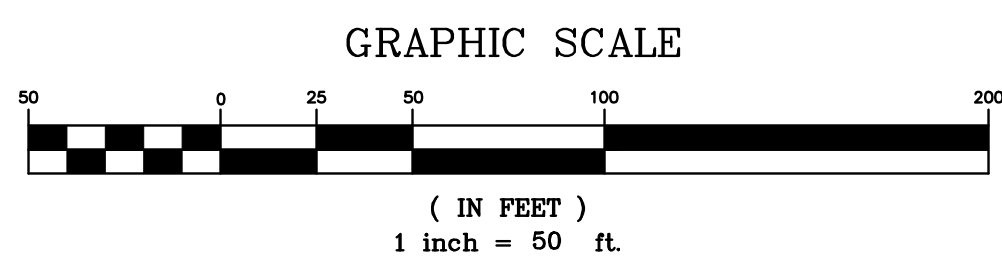
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BUSINESS PARK ROAD & UTILITY EXTENSION  
TOWN OF RICHFIELD  
OTSEGO COUNTY, NY  
OFF SITE UTILITIES PLAN & PROFILE

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**C140**  
PROJECT NO.  
0552.04219.1  
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CAD FILE NO: 0552.04219.1-PROFILE

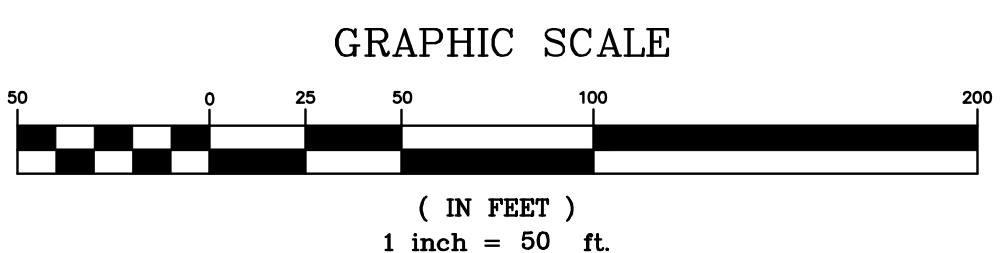




**INDUSTRIAL PARK PLAN**



**N.Y.S. ROUTE 28 WATER MAIN PLAN**



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**RICHFIELD SPRINGS ECO-INDUSTRIAL**  
**BUSINESS PARK ROAD & UTILITY EXTENSION**  
 TOWN OF RICHFIELD  
 OTSEGO COUNTY, NY

**EROSION & SEDIMENT CONTROL PLAN**

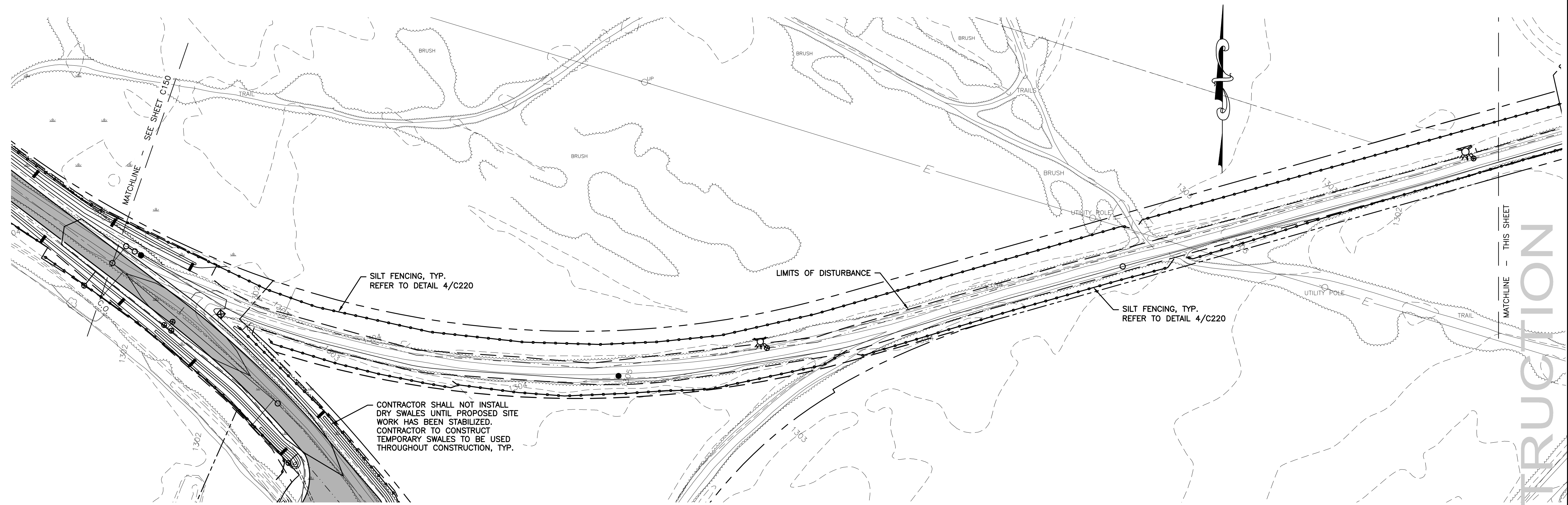
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PROJECT NO.  
 0552.04219.1

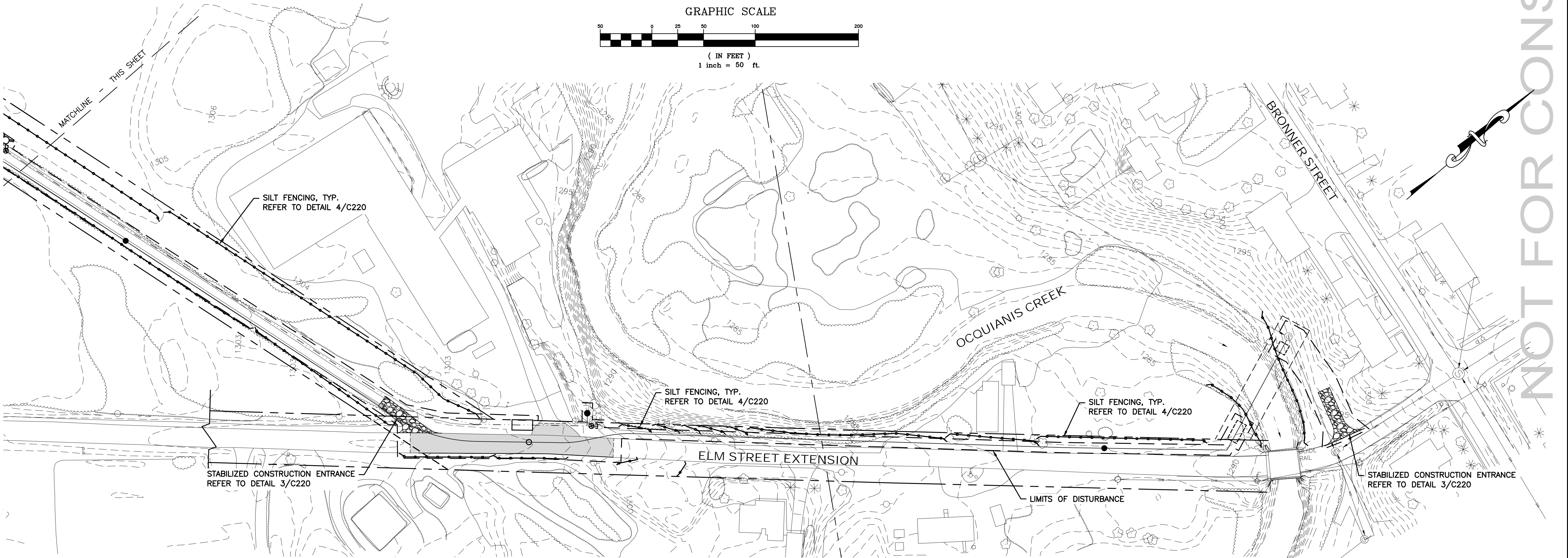
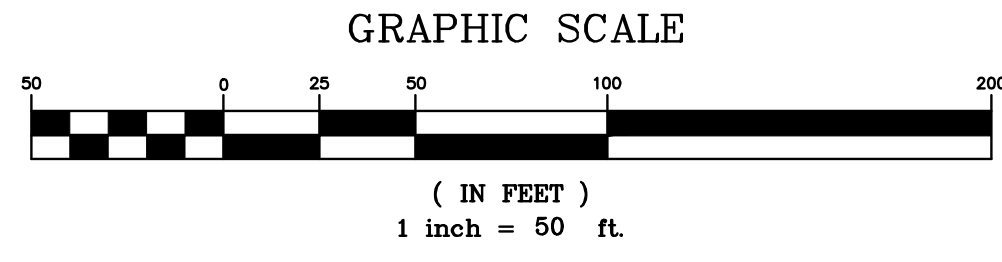
DATE: 02/15/21

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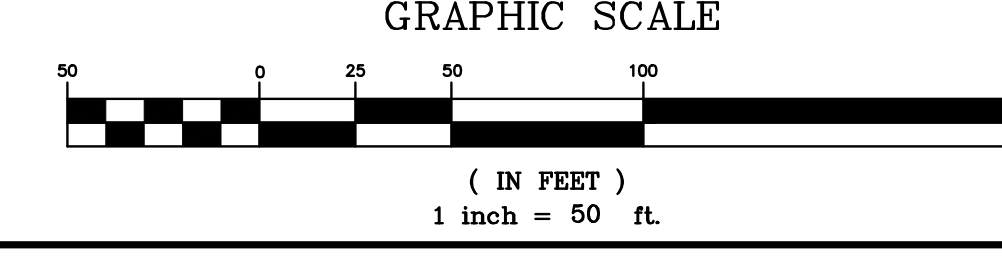




OFF SITE UTILITIES PLAN STA. 0+00-14+00



OFF SITE UTILITIES PLAN STA. 14+00-27+62



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OTSEGO COUNTY, NY

EROSION & SEDIMENT CONTROL PLAN

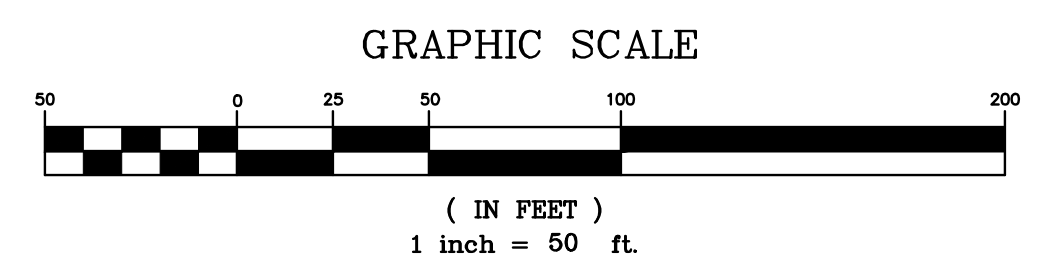
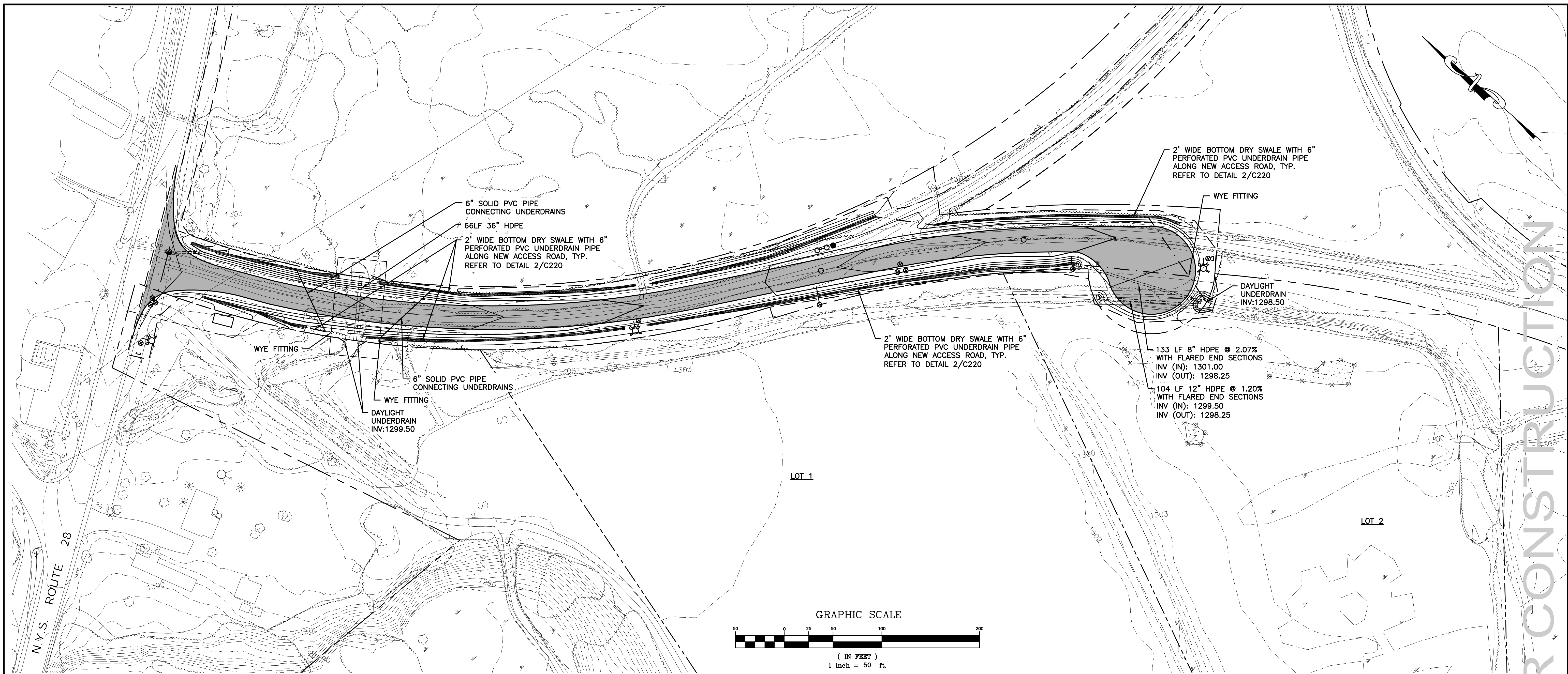
SHEET NO.  
**C160**

PROJECT NO.  
0552.04219.1

DATE: 02/15/21

CAD FILE NO. 0552.04219.1-PROFILE





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**IMPLEMENTATION SCHEDULE STORMWATER MANAGEMENT AND EROSION AND SEDIMENT CONTROL**

- A. THE FOLLOWING SCHEDULE FOR EROSION AND SEDIMENT CONTROL FACILITIES SHALL BE IMPLEMENTED (NOTE THAT NO MORE THAN 5-ACRES WILL BE DISTURBED AT ANY ONE TIME).
- OBTAIN PLAN APPROVAL AND BUILDING PERMIT FROM MUNICIPAL AND REGULATORY AGENCIES AS REQUIRED OR FOR PROJECT AS REQUIRED.
  - SUBMIT NOTICE OF INTENT (NOI) FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE SPDES GENERAL PERMIT.
  - HOLD PRE-CONSTRUCTION CONFERENCE.
  - CONTRACTORS SHALL SIGN CONTRACTOR'S CERTIFICATION STATEMENT PREPARED FOR THE PROJECT.
  - INSTALL ON-SITE MAILBOX (COMBINATION LOCK PREFERRED) TO HOLD NOI, PERMIT NOTICE, SWPPP, INSPECTION REPORTS AND MS4 SWPPP ACCEPTANCE FORM. A SIGN PROVIDING SWPPP CONTACT NAMES AND PHONE NUMBERS IS PREFERRED.
  - INSTALL TEMPORARY STABILIZED CONSTRUCTION ENTRANCE/EXITS AS REQUIRED.
  - INSTALL FABRIC SILT FENCE.
  - CLEAR/GRUB SITE.
  - CONSTRUCT TEMPORARY DRAINAGE SWALES, CONCRETE WASHOUT AREA(S) AND TEMPORARY SEDIMENT TRAPS (IF APPLICABLE).
  - STRIP AND STOCKPILE TOPSOIL, ROUGH GRADE SITE.
  - CONSTRUCT UTILITIES.
  - INSTALL TEMPORARY INLET PROTECTION.
  - PREPARE SUBGRADE AND CONSTRUCT SUBBASE COURSE FOR ROAD, DRIVES AND PARKING AREAS.
  - INSTALL A TEMPORARY CONCRETE WASHOUT AREA (IF APPLICABLE).
  - CONSTRUCT ANY FINAL GRADING, DRAINAGE, DRY SWALES, ETC.
  - CONSTRUCT FINAL SURFACE COURSES FOR DRIVES.
  - TOPSOIL; FINE GRADE; AND SEED, FERTILIZER AND MULCH ALL DISTURBED AREAS. IN AREAS WHERE SOIL DISTURBANCE ACTIVITY HAS BEEN TEMPORARILY OR PERMANENTLY CEASED, TEMPORARY AND/OR PERMANENT SOIL STABILIZATION MEASURES SHALL BE INSTALLED AND/OR IMPLEMENTED WITHIN SEVEN (7) DAYS FROM THE DATE THE SOIL DISTURBANCE ACTIVITY CEASED. THE SOIL STABILIZATION MEASURES SELECTED SHALL BE IN CONFORMANCE WITH THE MOST CURRENT VERSION OF THE TECHNICAL STANDARD, NEW YORK STANDARDS AND SPECIFICATIONS FOR EROSION AND SEDIMENT CONTROL.
  - INSPECT ALL EROSION AND SEDIMENT CONTROLS WEEKLY AND AFTER RAINFALL EVENTS; REPAIR AS REQUIRED.
  - WATER VEGETATION AS REQUIRED.
  - AFTER THE SITES ARE STABILIZED AND AT LEAST 80% VEGETATION HAS BECOME ESTABLISHED, REMOVE ALL TEMPORARY EROSION CONTROL MEASURES INCLUDING SILT FENCE, INLET PROTECTION, CONCRETE WASHOUT AREAS, CONSTRUCTION ENTRANCES, ETC.
  - SUBMIT NOTICE OF TERMINATION (NOT) FORM FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY UNDER THE SPDES GENERAL PERMIT.

**RECORD KEEPING DURING CONSTRUCTION**

THE CONSTRUCTION SITE LOGBOOK INCLUDING SIGNED NOI, PERMIT NOTIFICATION, CONTRACTOR'S CERTIFICATION STATEMENTS AND THE STORMWATER MANAGEMENT AND POLLUTION PREVENTION PLAN SHALL BE KEPT ON SITE AND UP TO DATE AT ALL TIMES DURING CONSTRUCTION AND MADE AVAILABLE TO AUTHORITIES UPON REQUEST.

**SHORT TERM MAINTENANCE**

SHORT-TERM MAINTENANCE SHOULD OCCUR DURING CONSTRUCTION BY THE OWNER/DEVELOPER/CONTRACTORS AND FOR A POST CONSTRUCTION PERIOD OF ONE (1) YEAR.

- SILT FENCES ARE TO BE MAINTAINED AS FOLLOWS:
  - CLEAN ANY BUILD UP OF SEDIMENT AS NECESSARY FOR THEIR PROPER OPERATION AND
  - REPAIR OR RESET ANY PORTION OF SILT FENCE AS NECESSARY TO ELIMINATE OPENINGS OR BREAKTHROUGHS.
- VEGETATED AREAS ARE TO BE MAINTAINED AS FOLLOWS:
  - MAINTAIN A GRASS HEIGHT OF 4" TO 6",
  - MAINTAIN SIDESLOPES AND
  - REPAIR EROSION AS NECESSARY.
- CULVERTS ARE TO BE MAINTAINED AS FOLLOWS:
  - CULVERTS SHALL BE INSPECTED EVERY TWO (2) WEEKS AND AFTER RAINFALL EVENTS AND CLEANED OF ANY SILT BUILD-UP AS REQUIRED TO FOR FREE FLOW OF STORMWATER.
- DRYSWALES/WETSWALES ARE TO BE MAINTAINED AS FOLLOWS:
  - EACH DRYSWALE OR WETSWALE SHALL BE INSPECTED EVERY TWO (2) WEEKS AND AFTER RAINFALL EVENTS. THE SYSTEM SHALL BE CLEANED OF ANY SILT OR GRIT BUILD-UP WHEN 25 PERCENT OF THE ORIGINAL VOLUME HAS BEEN EXCEEDED. THE STONE CHECK DAMS SHALL BE CLEANED OF ANY SILT AS REQUIRED TO FOR FREE FLOW OF STORMWATER.

**MAINTENANCE SCHEDULE**

STRUCTURE OR FEATURE	MAINTENANCE OR MONITORING TASK	SCHEDULE
GRASSED DITCHES/ CHANNELS, SWALES	MOW	AS REQUIRED TO MAINTAIN GRASS AT REQUIRED HEIGHT AND FREE OF WOODY PLANT GROWTH
DRYSWALES/ WETSWALES	MONITOR WATER LEVEL EACH SUBSTANTIAL RAINFALL	MONTHLY AND DURING AND AFTER WHEN 25 PERCENT OF THE ORIGINAL VOLUME HAS BEEN EXCEEDED.
CULVERTS	INSPECT AND CLEAN	ANNUALLY

**LONG-TERM MAINTENANCE**

- THE COUNTY OF OTSEGO INDUSTRIAL DEVELOPMENT AGENCY, THE TOWN RICHFIELD, THE COUNTY OF OTSEGO AND THE STATE OF NEW YORK WILL BE RESPONSIBLE FOR MAINTAINING THOSE FACILITIES LOCATED WITHIN ITS PROPERTY, HIGHWAY BOUNDARIES AND EASEMENTS.
- MAINTENANCE ACTIVITIES FOR VEGETATION INCLUDE MOWING, FERTILIZING, WATERING, PRUNING, FIRE CONTROLS IN DRY WEATHER, WEED AND PEST CONTROL, RESEEDING AND REPAIRS AS NECESSARY TO MAINTAIN A VIGOROUS, DENSE VEGETATIVE COVER.
- VEGETATED AREAS ARE TO BE MAINTAINED AS FOLLOWS:
  - MAINTAIN A GRASS HEIGHT OF 4" TO 6",
  - MAINTAIN SLOPES AND
  - REPAIR EROSION AS NECESSARY.
- DRYSWALES/WETSWALES ARE TO BE MAINTAINED AS FOLLOWS:
  - EACH DRYSWALE OR WETSWALE SHALL BE INSPECTED EVERY MONTH AND AFTER MAJOR RAINFALL EVENTS. THE SYSTEM SHALL BE CLEANED OF ANY SILT OR GRIT BUILD-UP WHEN 25 PERCENT OF THE ORIGINAL VOLUME HAS BEEN EXCEEDED. THE STONE CHECK DAMS SHALL BE CLEANED OF ANY SILT AS REQUIRED TO FOR FREE FLOW OF STORMWATER.
- CULVERTS ARE TO BE MAINTAINED AS FOLLOWS:
  - CULVERTS SHALL BE INSPECTED ANNUALLY AND CLEANED OF ANY SILT BUILD-UP AS REQUIRED TO FOR FREE FLOW OF STORMWATER.

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**RICHFIELD SPRINGS ECO-INDUSTRIAL**  
**BUSINESS PARK ROAD & UTILITY EXTENSION**  
TOWN OF RICHFIELD  
OTSEGO COUNTY, NY

**STORMWATER MANAGEMENT PLAN**

SHEET NO.  
**C170**

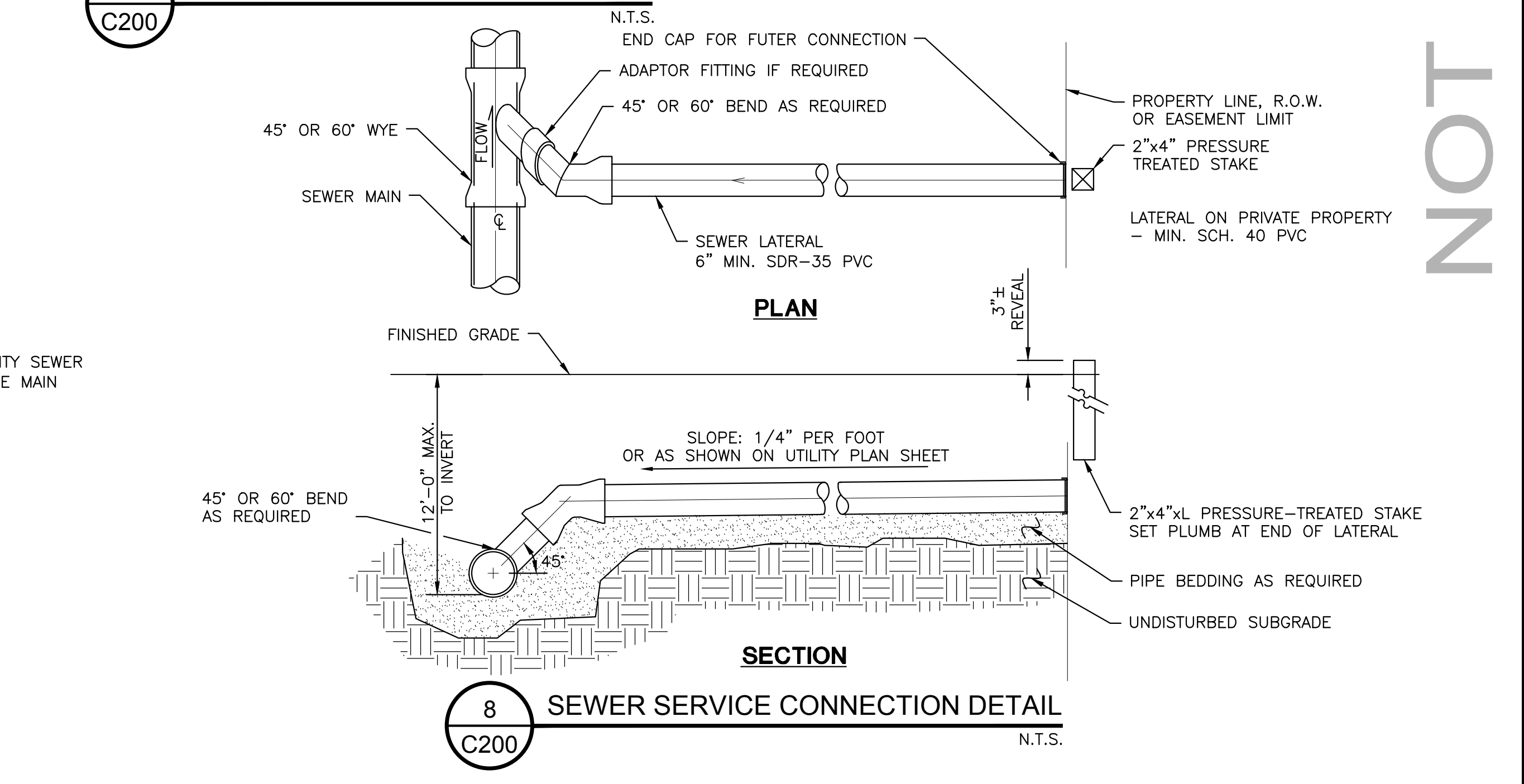
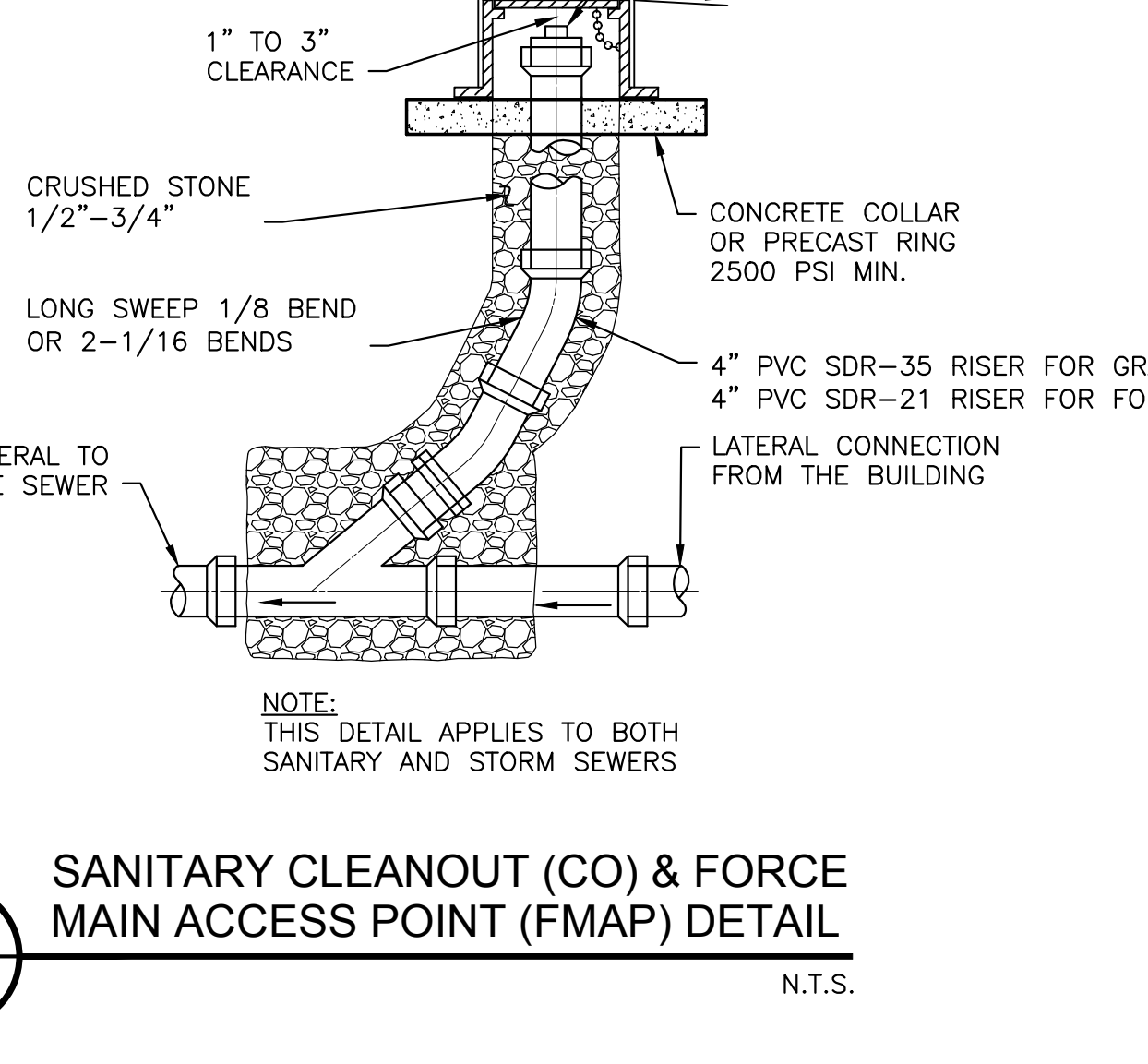
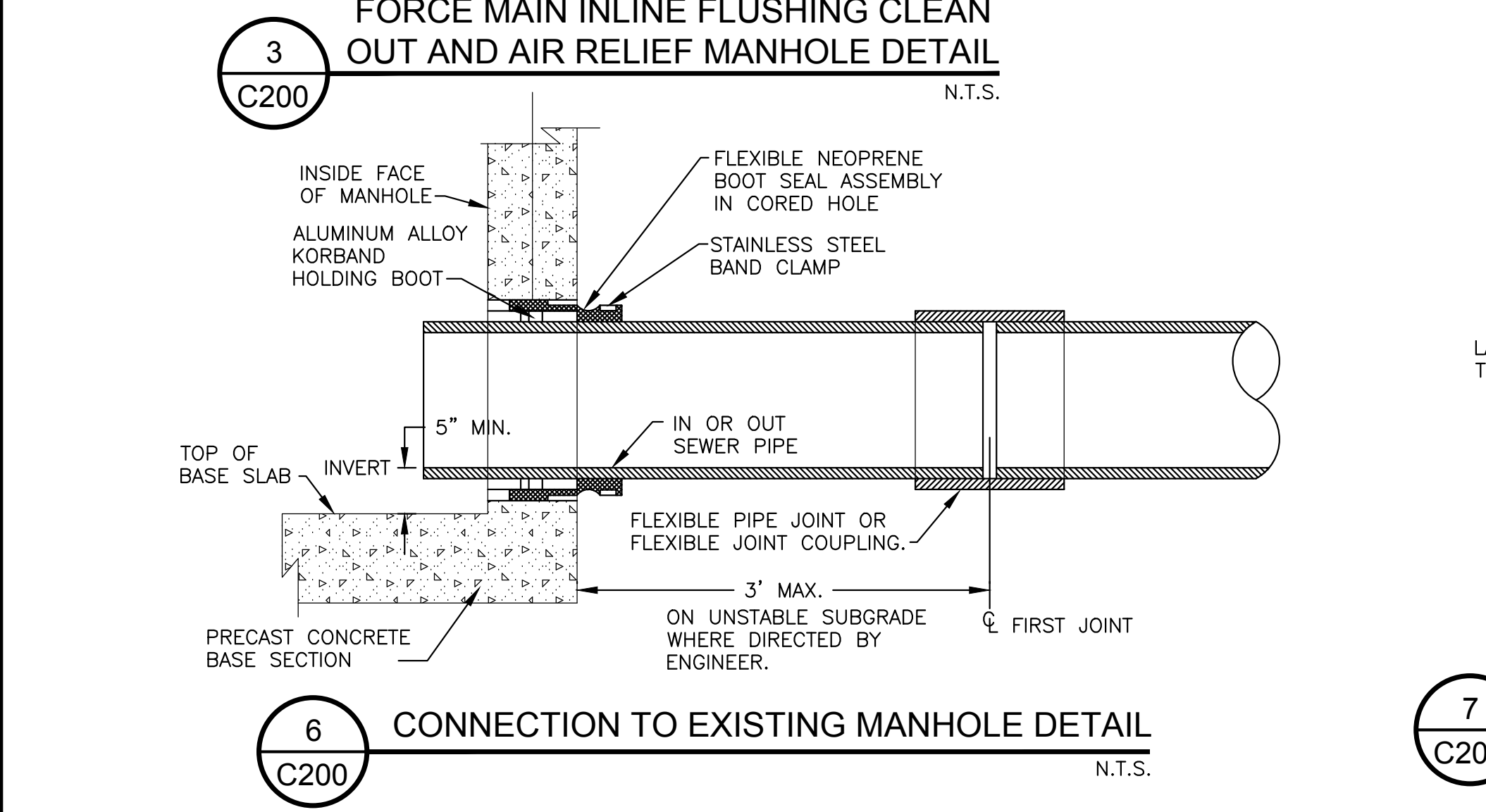
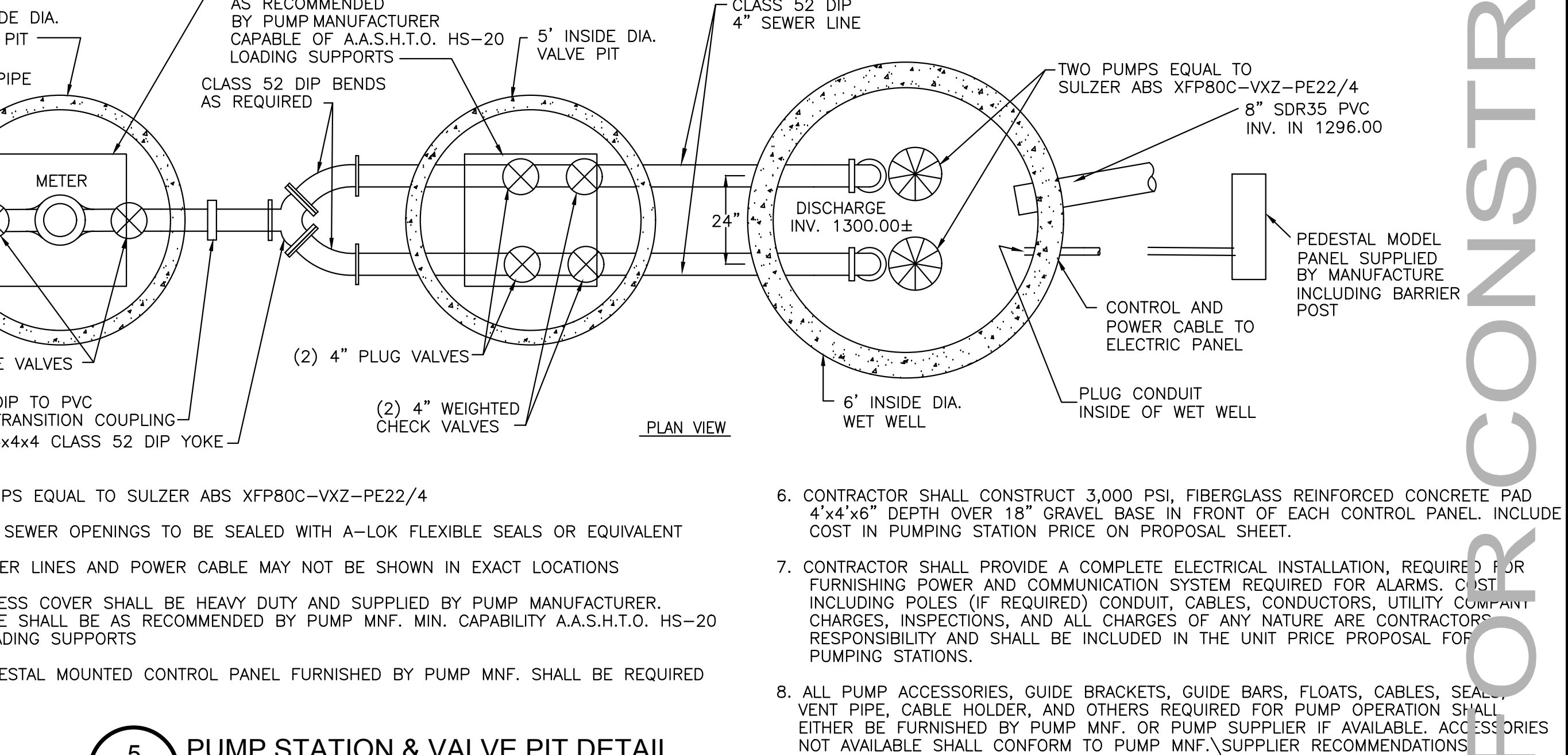
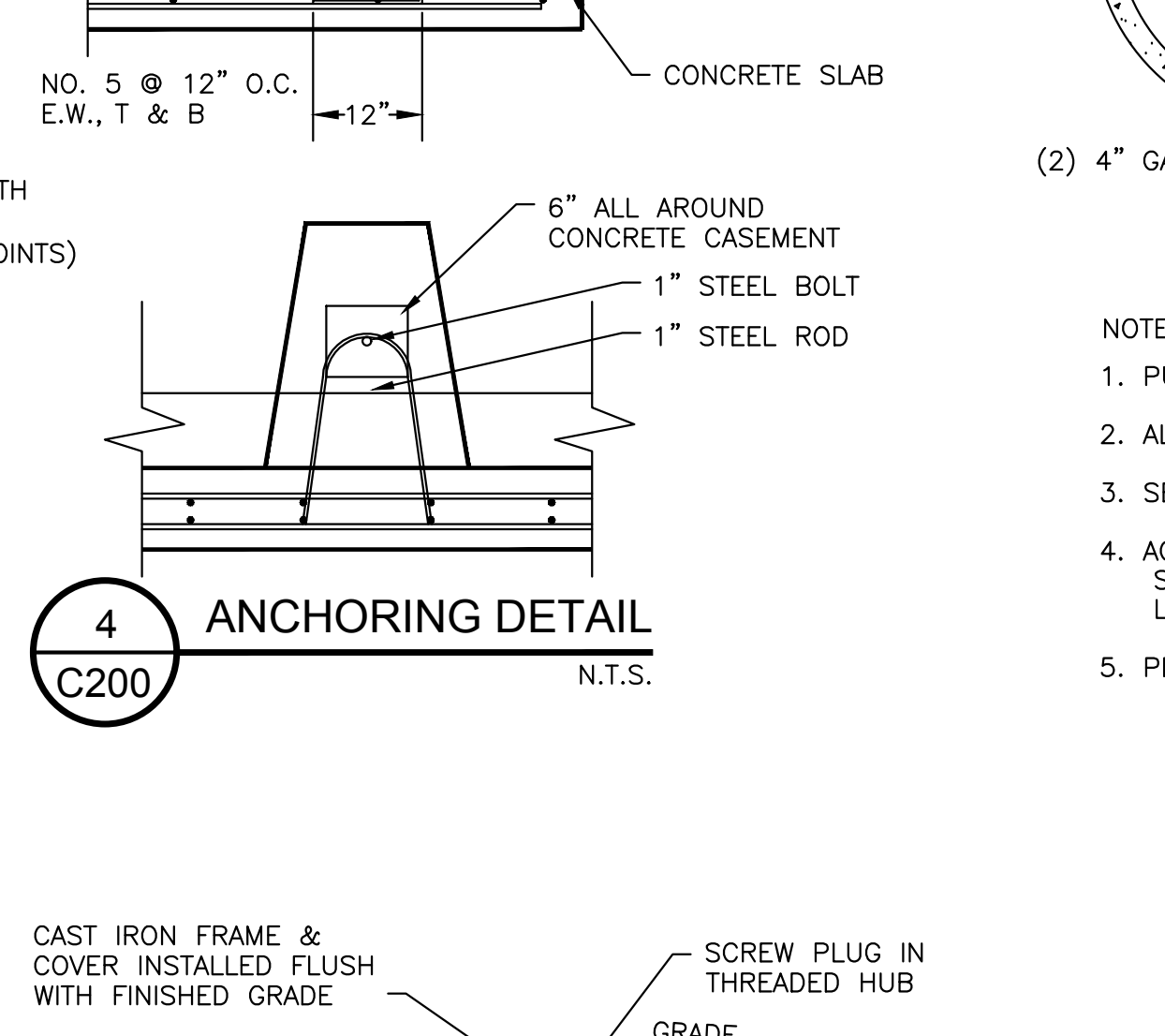
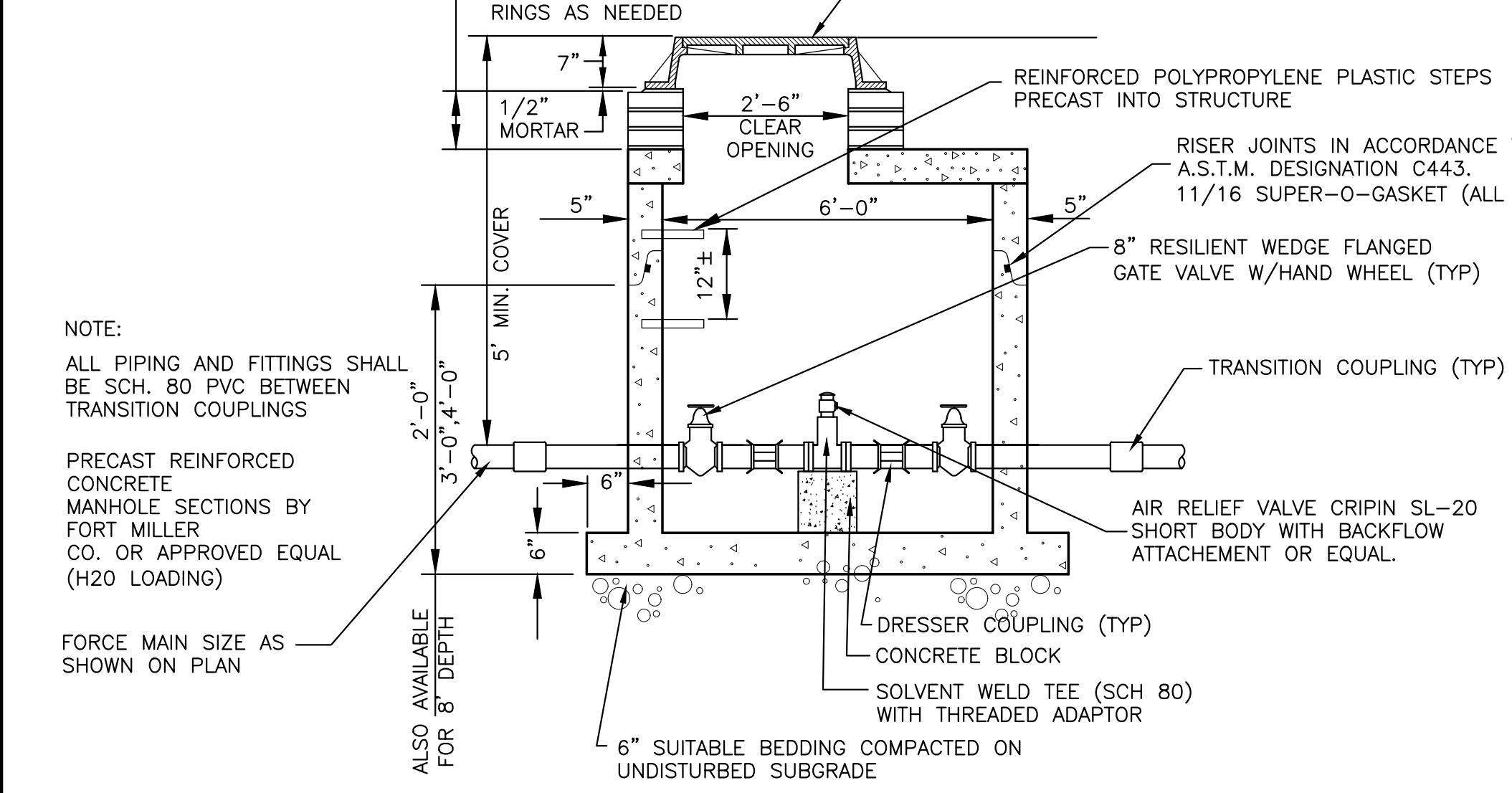
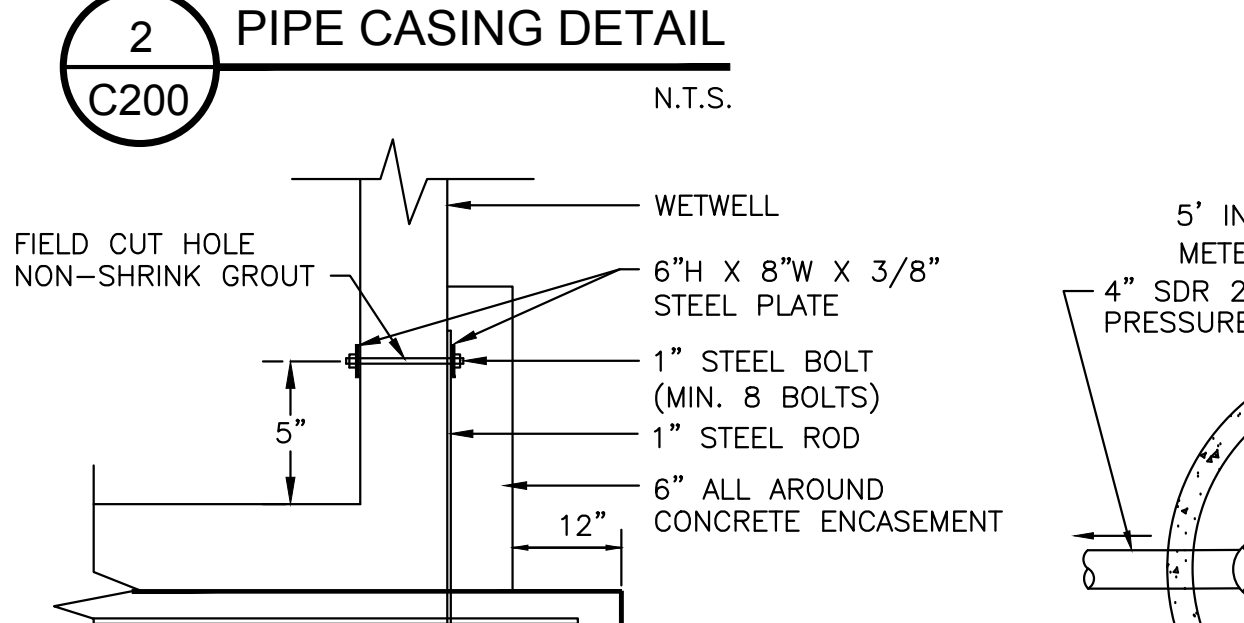
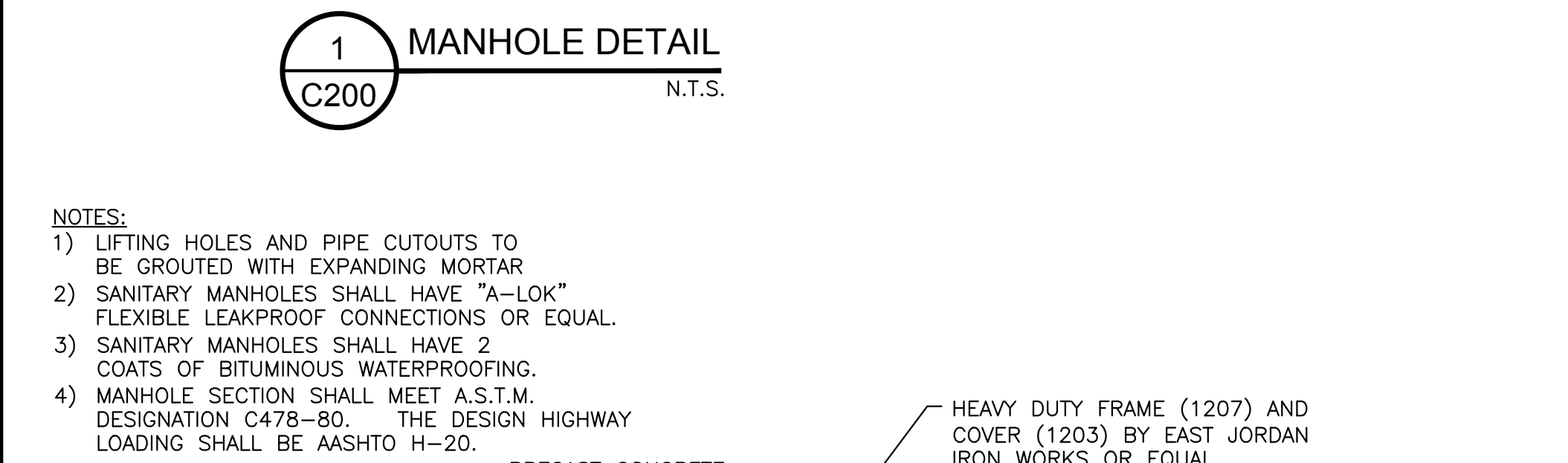
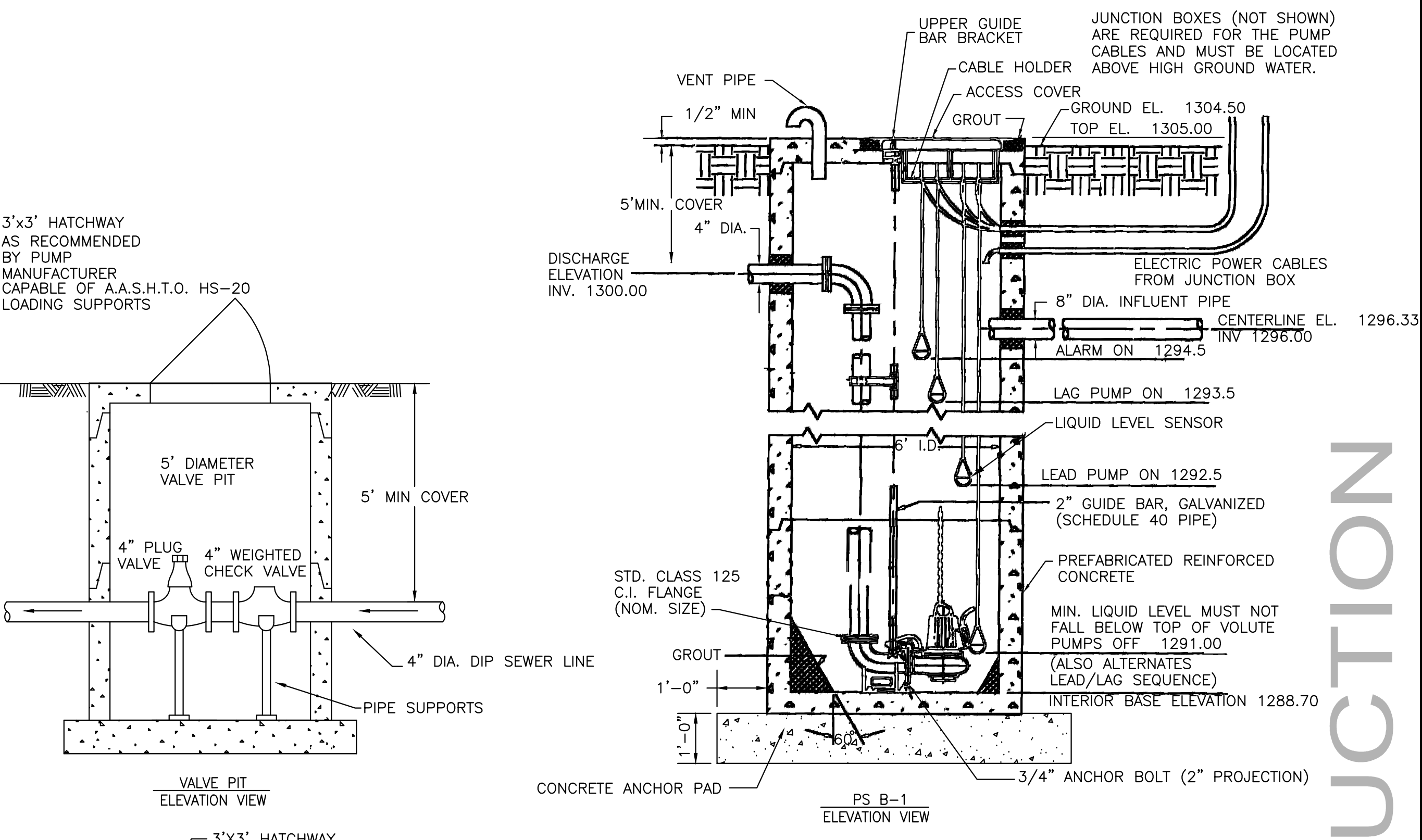
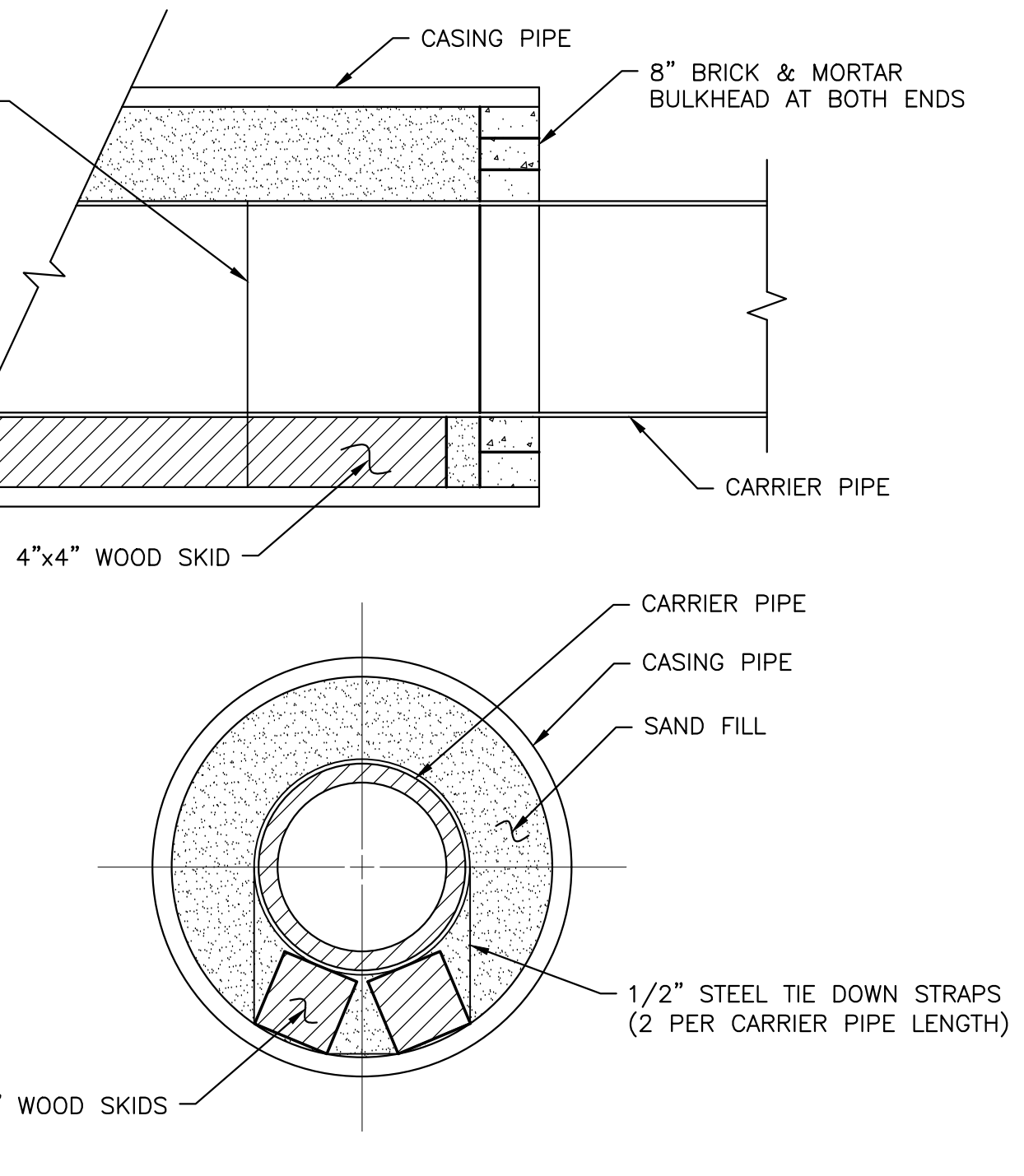
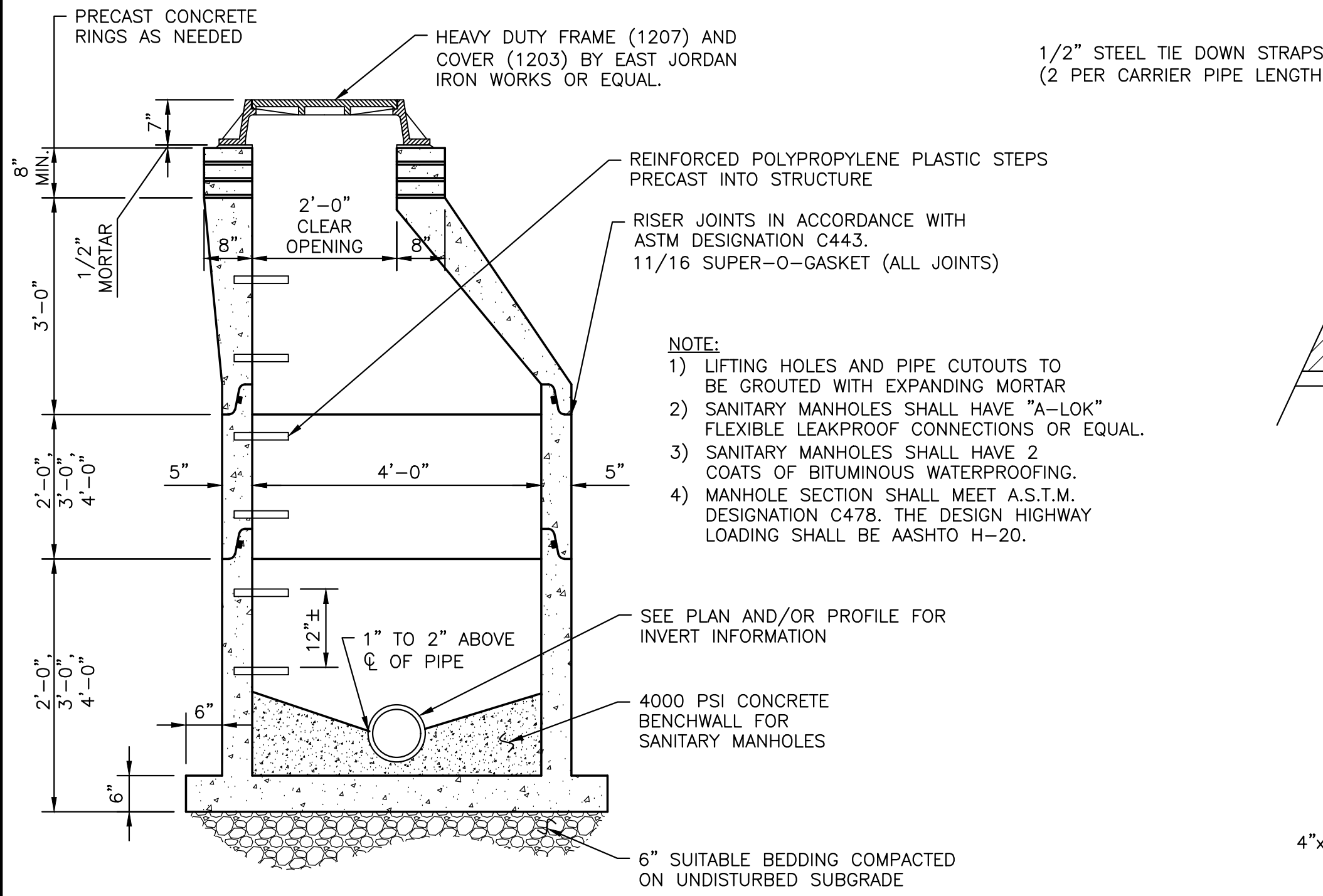
PROJECT NO.  
0552.04219.1

DATE: 02/15/21

CAD FILE NO: 0552.04219.1-PROFILE

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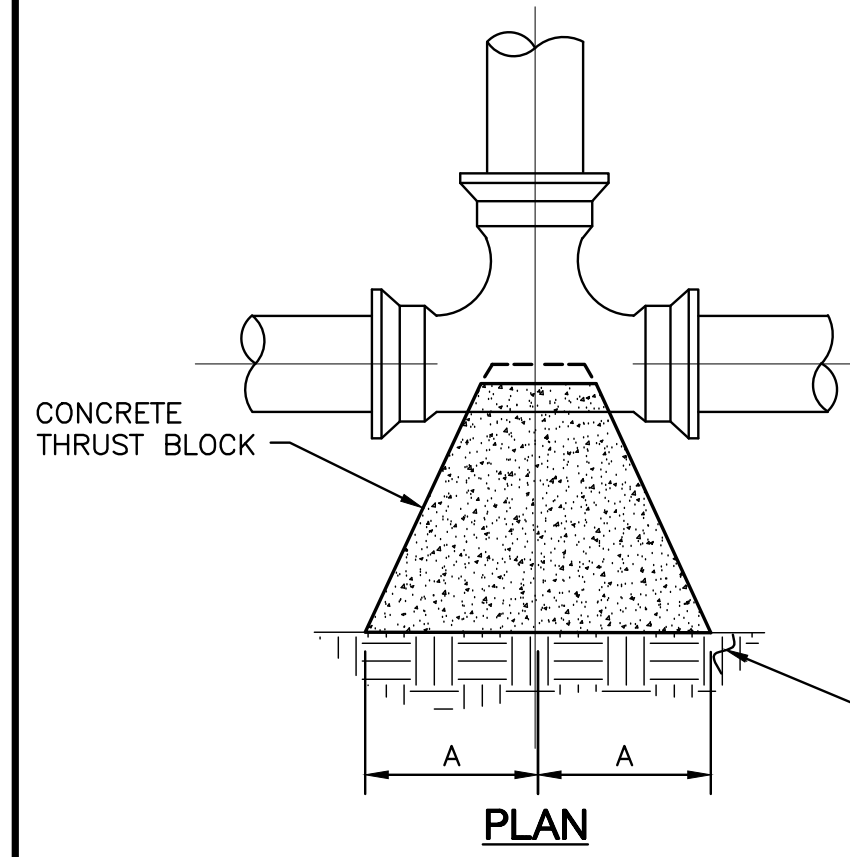
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JAMES W. KEYS  
LICENSED PROFESSIONAL ENGINEER  
LICENSE NO. 10337

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TOWN OF RICHFIELD  
OTSEGO COUNTY, NY

**SANITARY DETAILS**

SHEET NO. **C200**  
PROJECT NO. 0552.04219.1  
DATE: 02/15/21  
S&D FILE NO. 0552.04219.1-detailed

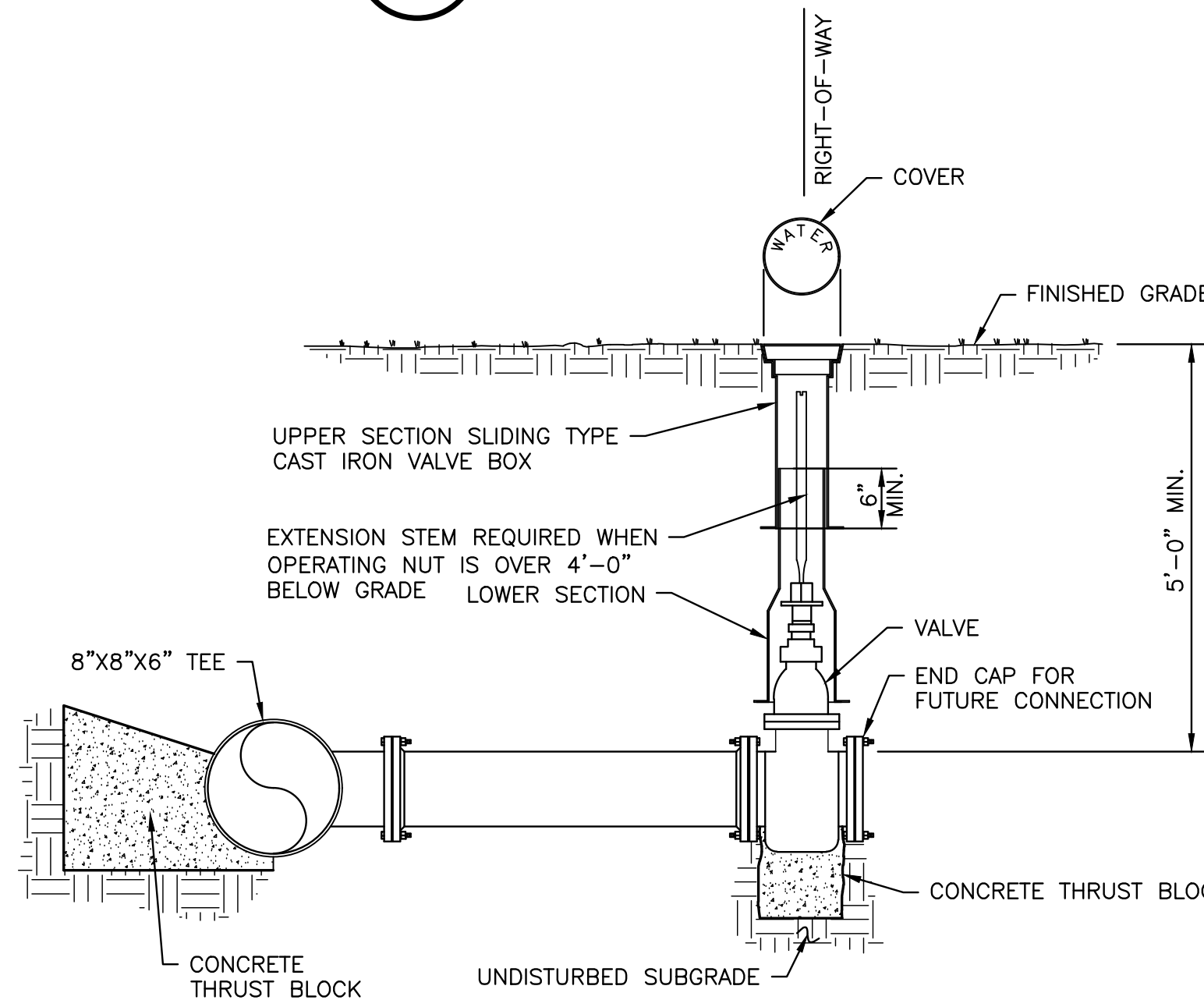




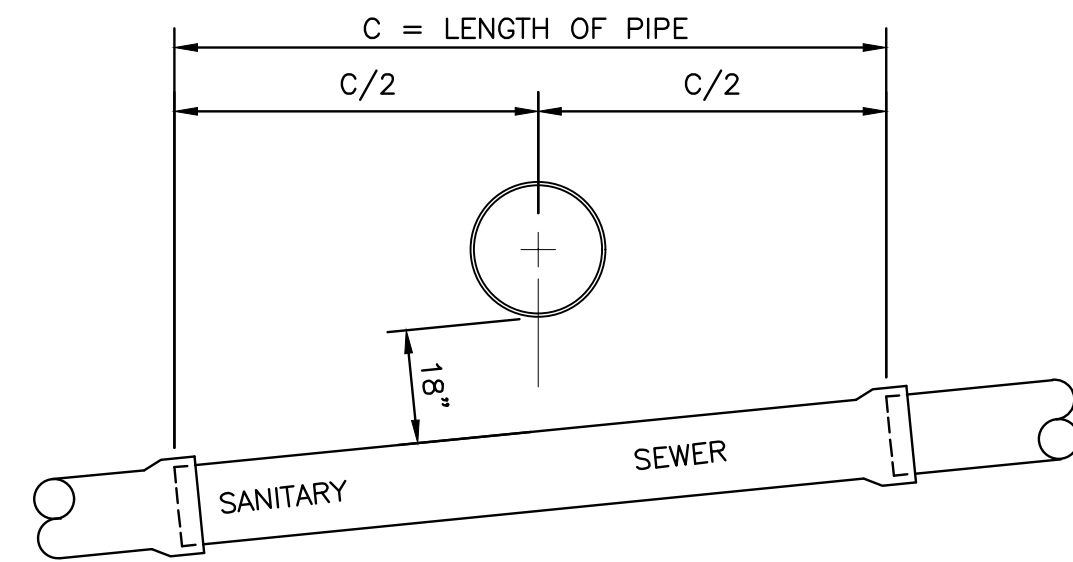
SIZE OF WATER MAIN	TEE	
	A	B
6"	10"	12"
8"	13"	16"
10"	16"	20"
12"	18"	24"
16"	20"	28"

- NOTES:
- ALL BEARING SURFACES TO BE CARRIED TO UNDISTURBED SOIL.
  - TABLE SHOW MINIMUM SIZE THRUST BLOCKS FOR GRANULAR SOIL (AASHTO CLASSIFICATION A1 THROUGH A3, CLEAN SAND AND GRAVELS).
  - POOR SOIL (AASHTO CLASSIFICATION A4 THROUGH A8, SILTY SOILS, CLAYS, MUCK, AND PEAT ) WILL REQUIRE LARGER THRUST BLOCKS.
  - WHEN POSSIBLE JOINTS TO BE TIED WITH 3 - 3/4" RODS TO RESTRAINER ON STRAIGHT PIPE IN LIEU OF THRUST BLOCKING.
  - QUANTITY OF CONCRETE USED FOR THRUST BLOCKING SHALL BE SUFFICIENT TO CREATE A BLOCK WITH BEARING AREA OF DIMENSIONS SHOWN AGAINST UNDISTURBED EARTH.

**1 TEE ANCHOR DETAIL**  
C210 N.T.S.

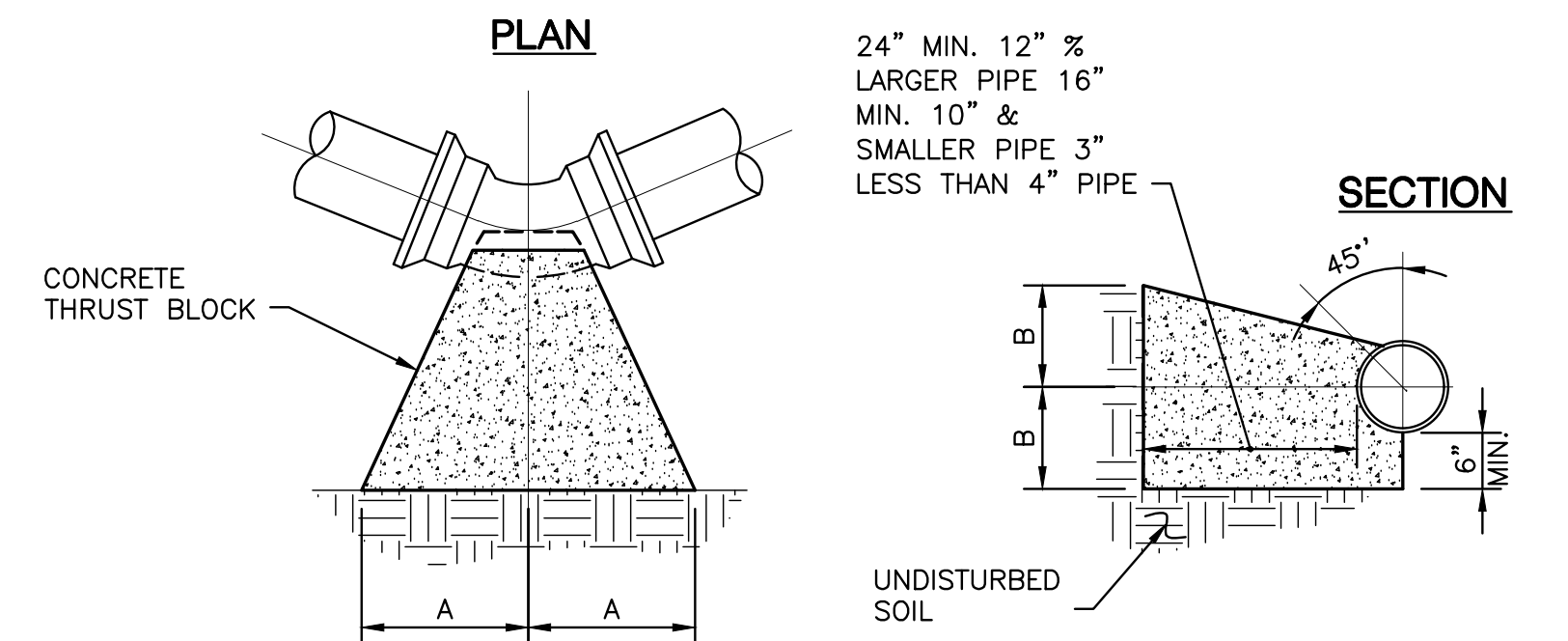


**3 LARGE DIAMETER WATER SERVICE DETAIL**  
C210 N.T.S.



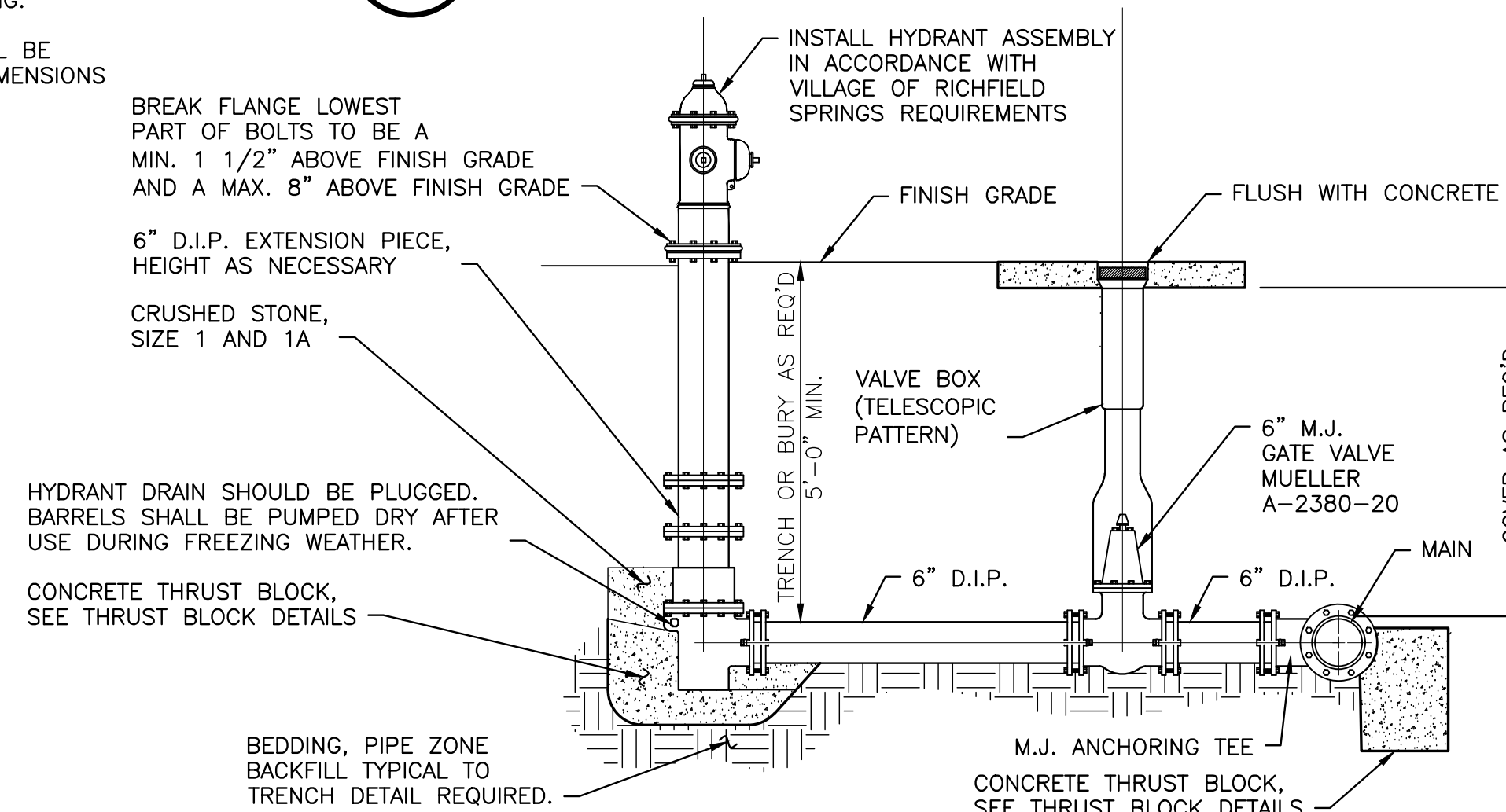
- NOTES:
- WATER MAINS CROSSING SEWERS SHALL BE LAID TO PROVIDE A MINIMUM VERTICAL DISTANCE OF 18" BETWEEN THE OUTSIDE OF THE WATER MAIN & THE OUTSIDE OF THE SEWER. THIS WILL BE THE CASE WHETHER THE WATER MAIN PASSES ABOVE OR BELOW THE SEWER.
  - AT CROSSINGS ONE FULL LENGTH OF SEWER PIPE SHALL BE LAID SO BOTH JOINTS WILL BE AS FAR FROM THE WATER MAIN AS POSSIBLE. SEE DETAIL. WHERE THE SEWER HAS ALREADY BEEN INSTALLED, THE WATER MAIN SHALL BE PLACED SO THAT THE JOINTS ON THE WATER MAIN ARE EQUIDISTANT FROM THE SEWER.
  - NO WATER PIPE SHALL PASS THROUGH OR COME IN CONTACT WITH ANY SEWER MANHOLE.
  - IN THE EVENT THAT THERE IS A DEVIATION FROM ANY OF THE ABOVE REQUIREMENTS, SAID CHANGES MUST BE APPROVED BY THE COUNTY HEALTH DEPARTMENT PRIOR TO COMPLETION OF ANY SUCH CHANGES.

**6 SANITARY SEWER-WATER MAIN CROSSING DETAIL**  
C210 N.T.S.

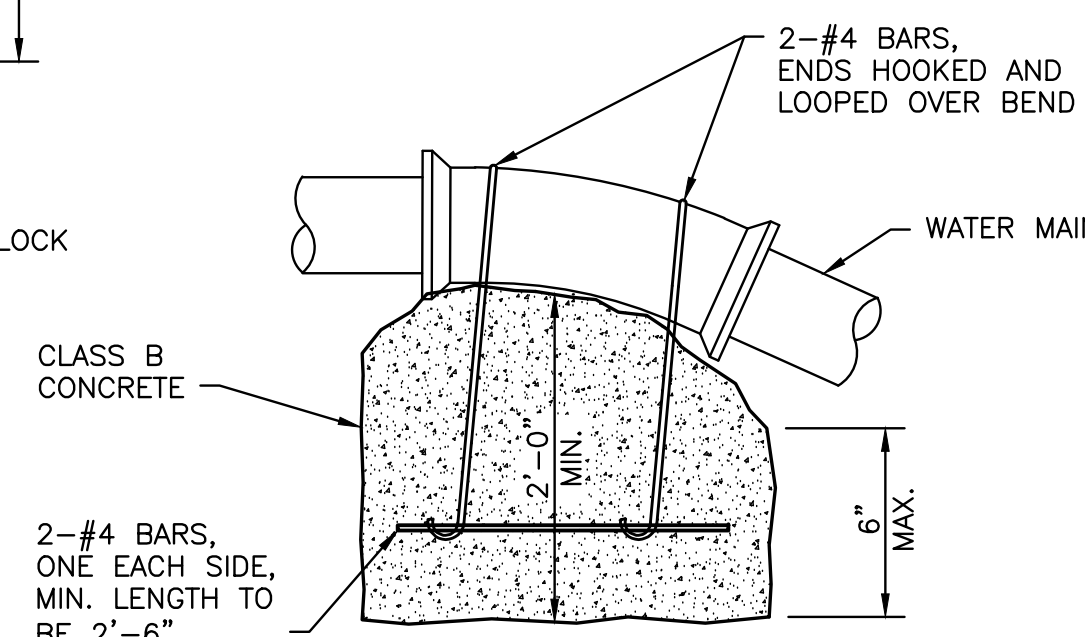


SIZE OF WATER MAIN	90° BEND		45° BEND		22 1/2° BEND		11 1/4° BEND	
	A	B	A	B	A	B	A	B
6"	16"	10"	9"	10"	6"	8"	6"	8"
8"	22"	13"	12"	13"	8"	10"	8"	10"
10"	26"	17"	14"	17"	10"	13"	10"	13"
12"	29"	21"	16"	21"	11"	16"	11"	16"
16"	31"	26"	18"	25"	12"	19"	12"	19"

**2 11-1/4 DEG THRU 90 DEG BEND THRUST BLOCK DETAIL**  
C210 N.T.S.



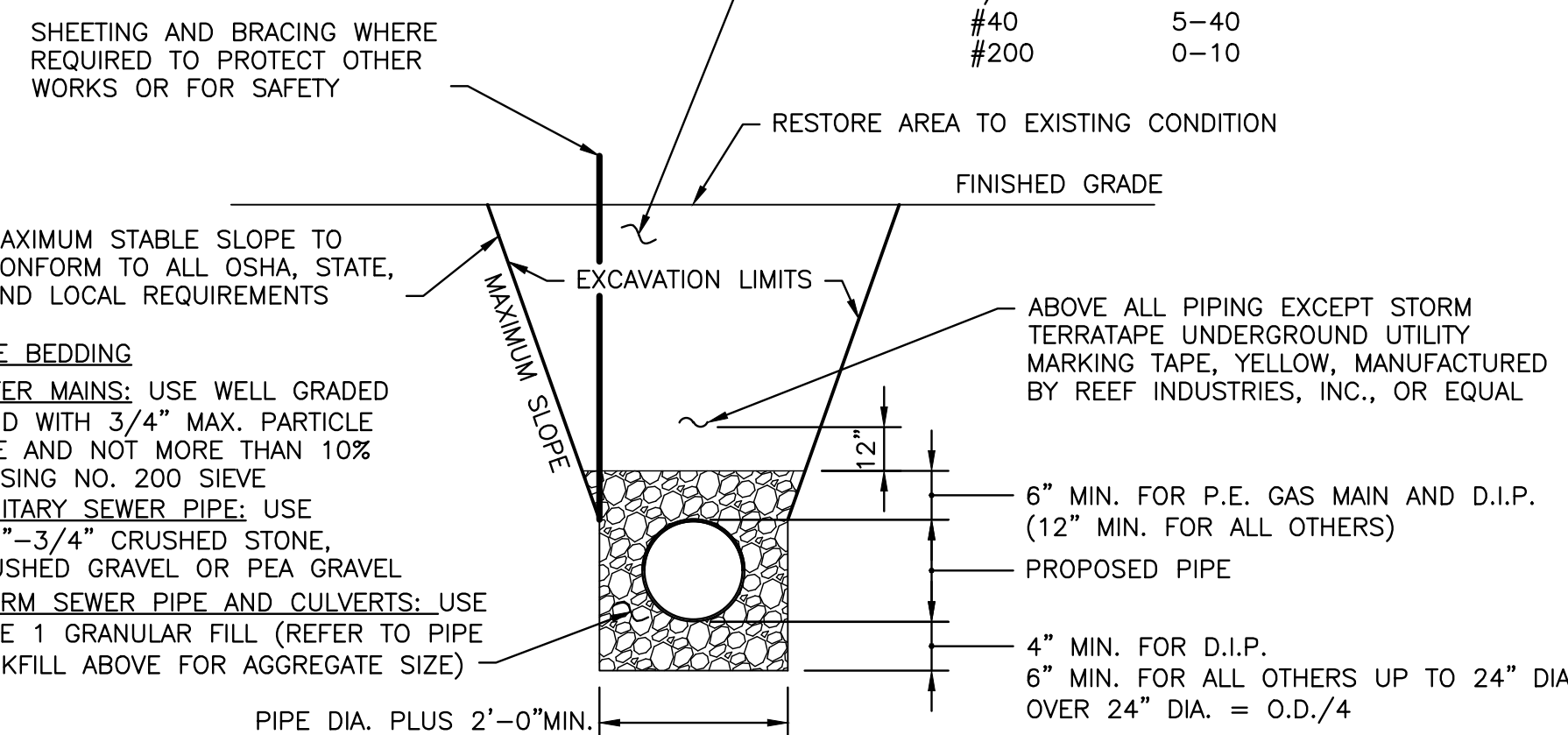
**5 HYDRANT ASSEMBLY DETAIL**  
C210 N.T.S.



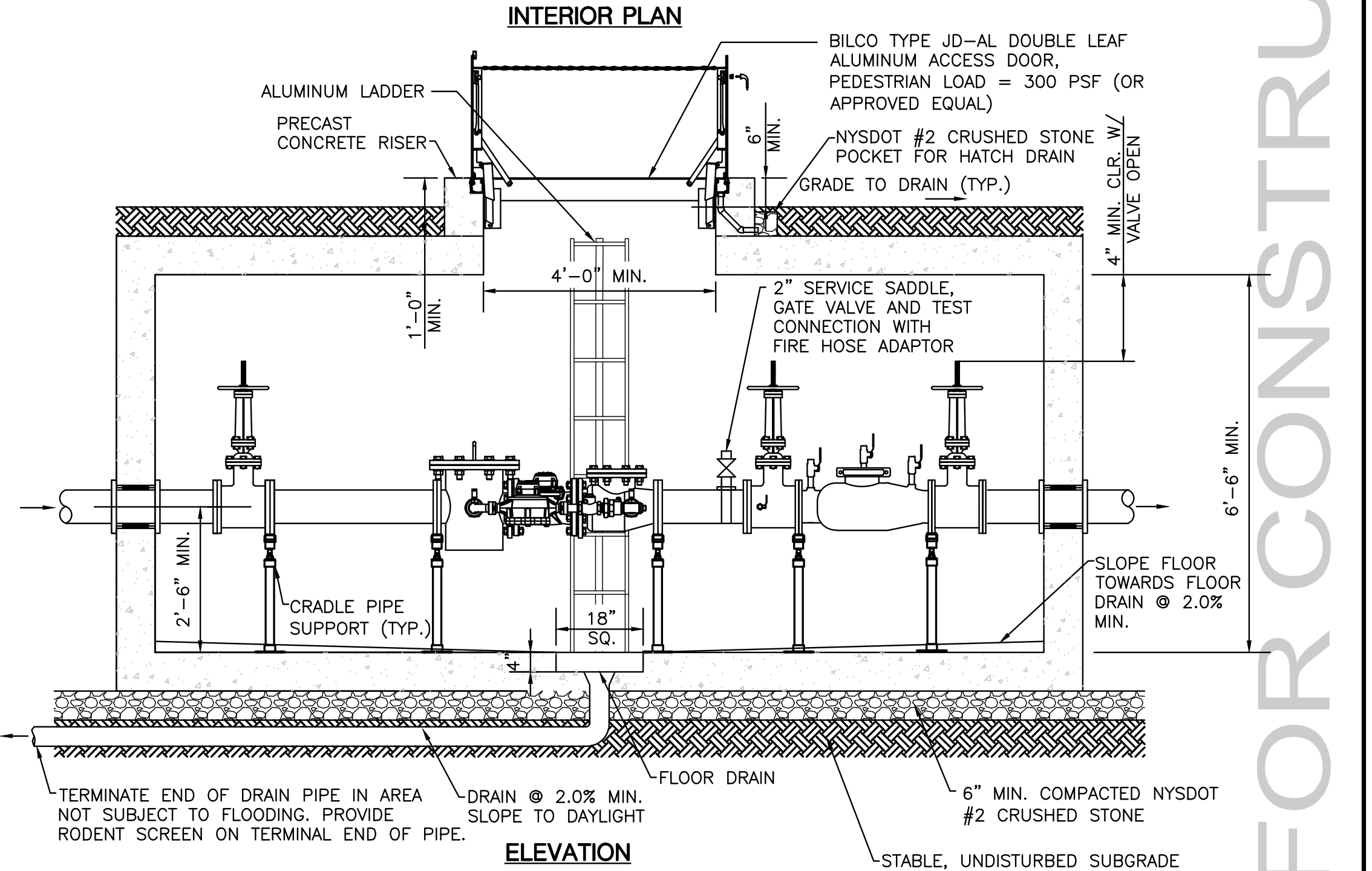
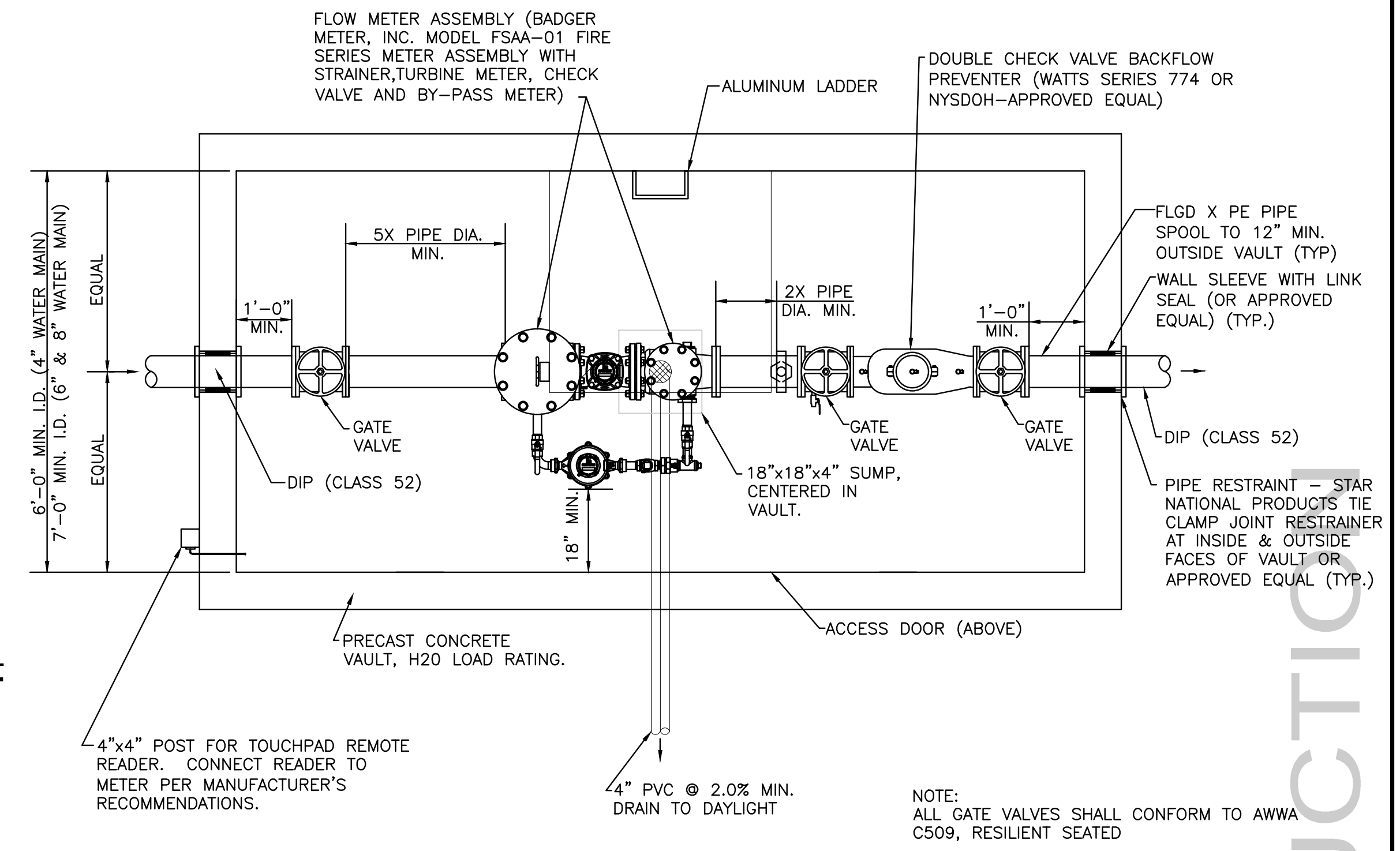
**4 CONCRETE ANCHOR DETAIL**  
C210 N.T.S.

PIPE BACKFILL  
USE SUITABLE EXCAVATED MATERIAL PLACED IN LAYERS AND COMPACTED. UNSUITABLE EXCAVATED MATERIAL AS DETERMINED BY ENGINEER WILL BE REPLACED WITH TYPE 1 FILL WITH THE FOLLOWING GRADATION REQUIREMENTS.

SIEVE DESIGNATION	% BY WEIGHT	PASSING SQUARE MESH SIEVES
3"	100	
2"	90-100	
1/4"	30-65	
#40	5-40	
#200	0-10	

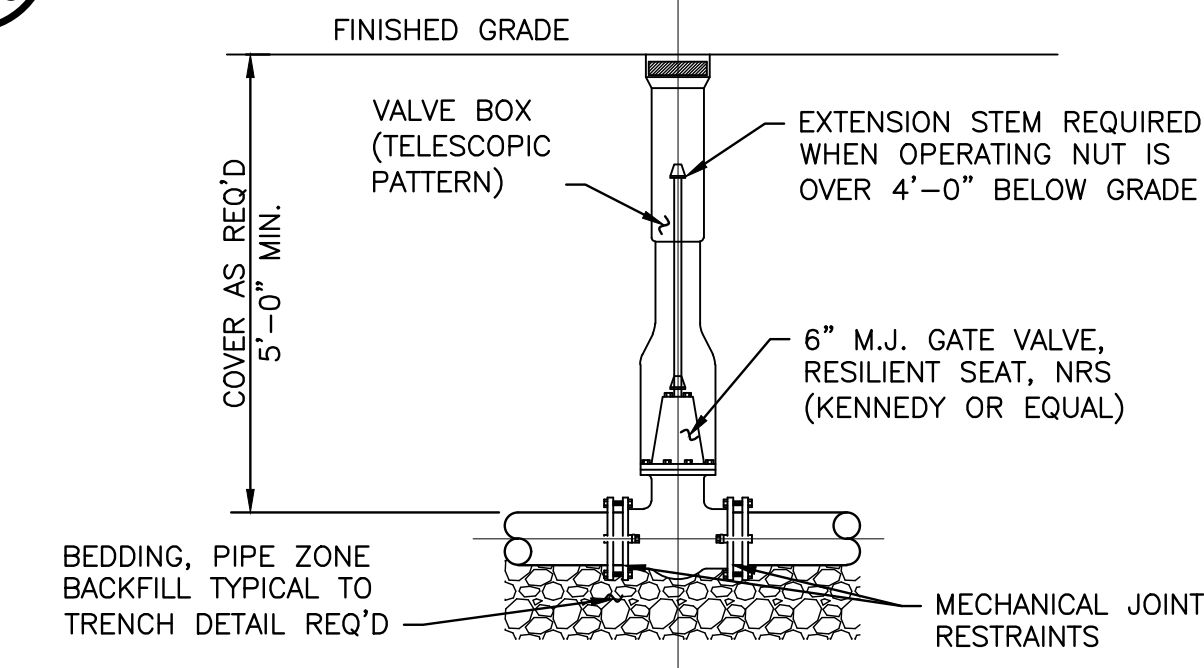


**7 PIPE TRENCH DETAIL**  
C210 N.T.S.



- NOTES:
- DETAIL APPLICABLE FOR NON-HEALTH HAZARD APPLICATIONS ONLY. DETAIL NOT APPLICABLE FOR HEALTH HAZARD APPLICATIONS WHERE REDUCED PRESSURE ZONE (RPZ) BACKFLOW PREVENTER IS REQUIRED BY AUTHORITY HAVING JURISDICTION.
  - METER AND BACKFLOW PREVENTER MANUFACTURER & MODEL NUMBER TO BE APPROVED BY AUTHORITY HAVING JURISDICTION.
  - SUMP PUMP WITH BACKUP SUMP PUMP WITH 12" DEEP SUMP SHALL BE USED WHERE GRAVITY DRAINAGE TO DAYLIGHT IS NOT POSSIBLE.
  - DOOR MUST OPEN AWAY FROM LADDER. FIRST RUNG SHOULD BE NO MORE THAN 16" FROM TOP.
  - LENGTH OF VAULT VARIES WITH ASSEMBLY REQUIREMENTS.

**8 METER/BACKFLOW PREVENTER VAULT**  
C210 N.T.S.



**9 VALVE BOX DETAIL**  
C210 N.T.S.

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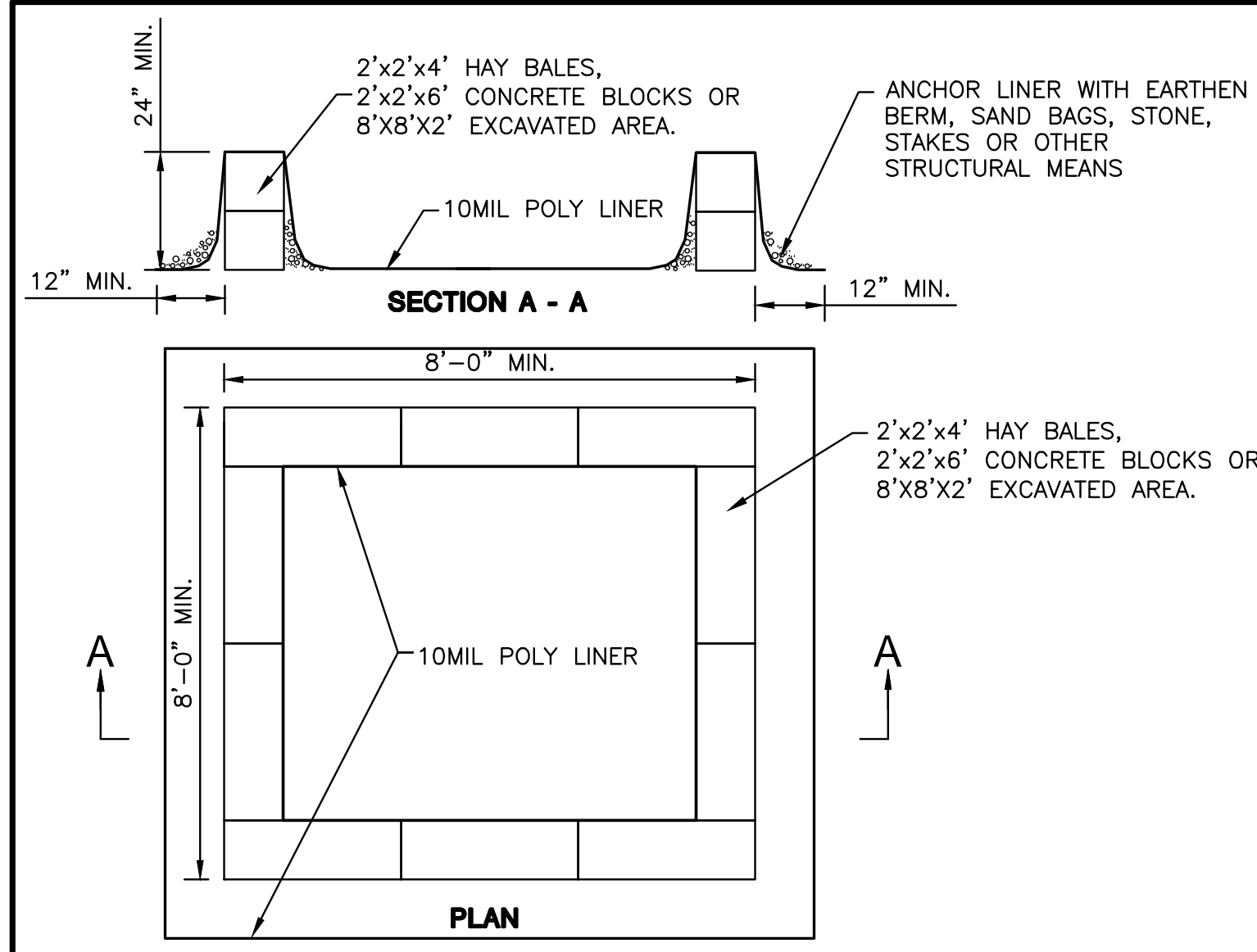
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WATER DETAILS

SHEET NO.  
**C210**  
PROJECT NO.  
0552.04219.1  
DATE: 02/15/21  
CAD FILE NO: 0552.04219.1-detailed

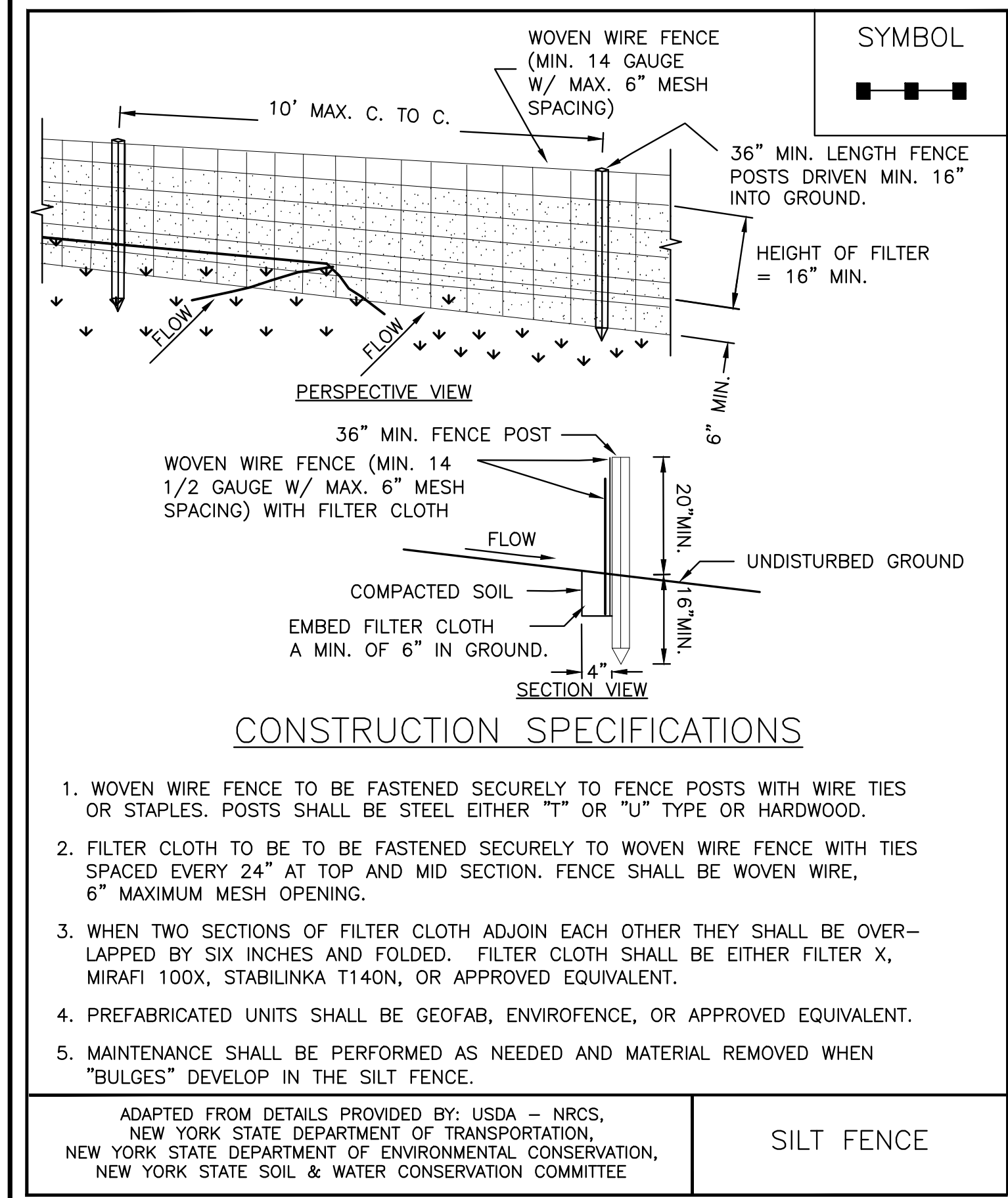
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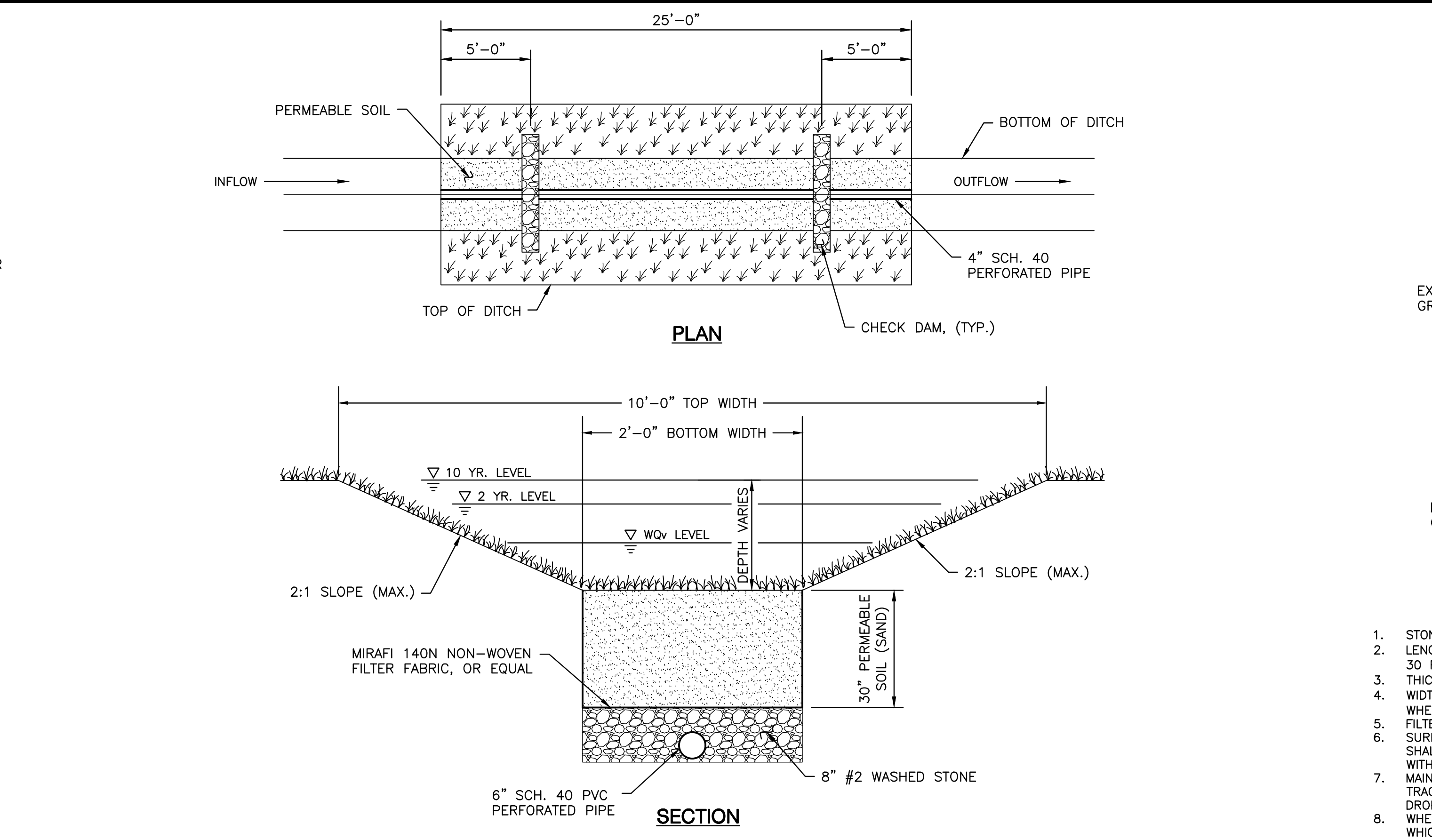


- NOTES:
- ACTUAL ABOVE GROUND OR EXCAVATED LAYOUT DETERMINED IN FIELD.
  - LOCATE THE FACILITY A MINIMUM OF 100' FROM DRAINAGE SWALES, STORM DRAIN INLETS, WETLANDS, STREAMS AND OTHER SURFACE WATERS. WASH WATER SHALL NOT BE ALLOWED TO INFILTRATE INTO SOIL OR ENTER SURFACE WATERS. EXCESS RAINWATER SHALL BE PUMPED TO A STABILIZED AREA SUCH AS A GRASSED FILTER STRIP.
  - EXCAVATED WASHOUT STRUCTURES SHALL BE A MINIMUM OF 2' DEEP WITH SIDE SLOPES OF 2:1.
  - PROVIDE APPROPRIATE ACCESS TO THE STRUCTURE.
  - SIGNS SHALL BE INSTALLED TO DIRECT DRIVERS TO THE CONCRETE WASHOUT LOCATION.
  - ALL WASHOUT FACILITIES WILL BE LINED. THE LINER SHALL BE PLASTIC SHEETING WITH A MINIMUM THICKNESS OF 10 MILS WITH NO HOLES OR TEARS. LINER SHALL BE REPLACED WITH EACH CLEANING OF STRUCTURE.
  - ALL CONCRETE WASHOUT FACILITIES SHALL BE INSPECTED DAILY. DAMAGED OR LEAKING STRUCTURES SHALL BE DEACTIVATED AND REPAIRED OR REPLACED IMMEDIATELY.
  - ACCUMULATED HARDENED MATERIAL SHALL BE REMOVED WHEN 75% OF STORAGE CAPACITY OF THE STRUCTURE IS FILLED. THE MATERIAL SHALL BE DISPOSED OF IN A LEGAL MANNER.
  - INSPECT THE PROJECT SITE FREQUENTLY TO ENSURE THAT NO CONCRETE DISCHARGES ARE TAKING PLACE IN NON-DESIGNATED AREAS.

**1 CONCRETE WASHOUT STRUCTURE**  
C220 N.T.S.

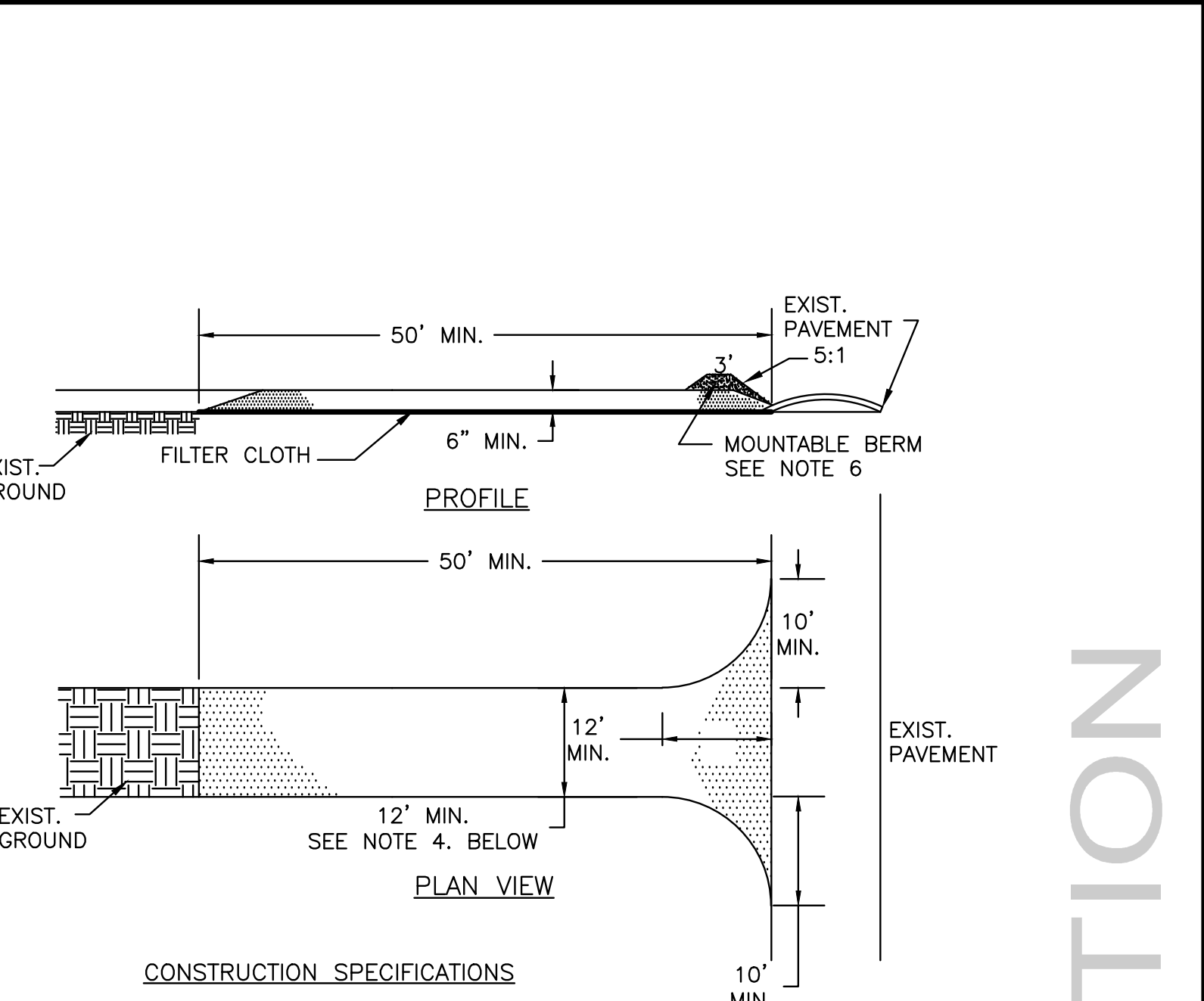


**4 SILT FENCE DETAIL**  
C220 N.T.S.

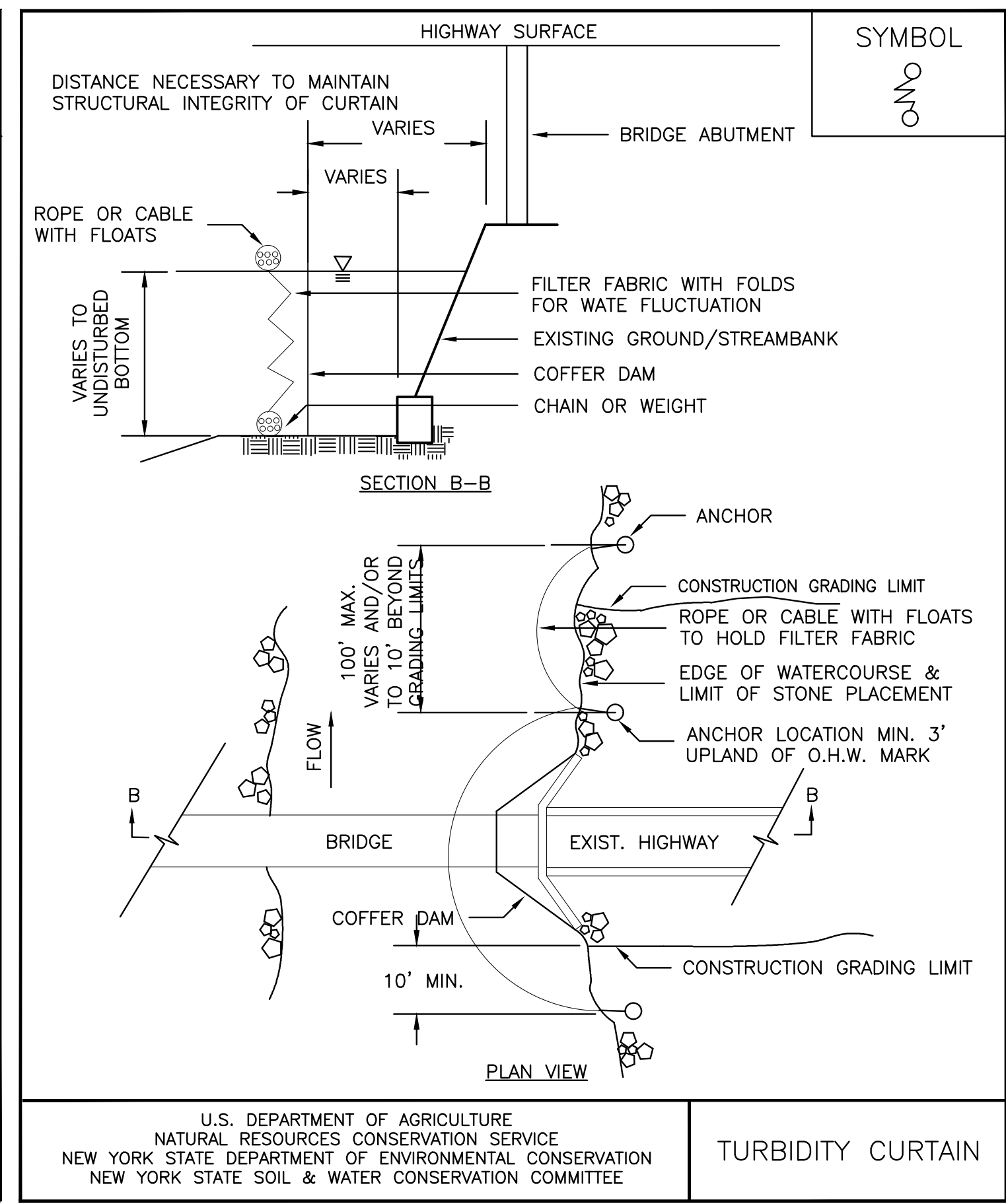


NOTE:  
PERMEABLE SOIL = SAND (35 TO 60%), SILT (30-55%) AND CLAY (10-25%)

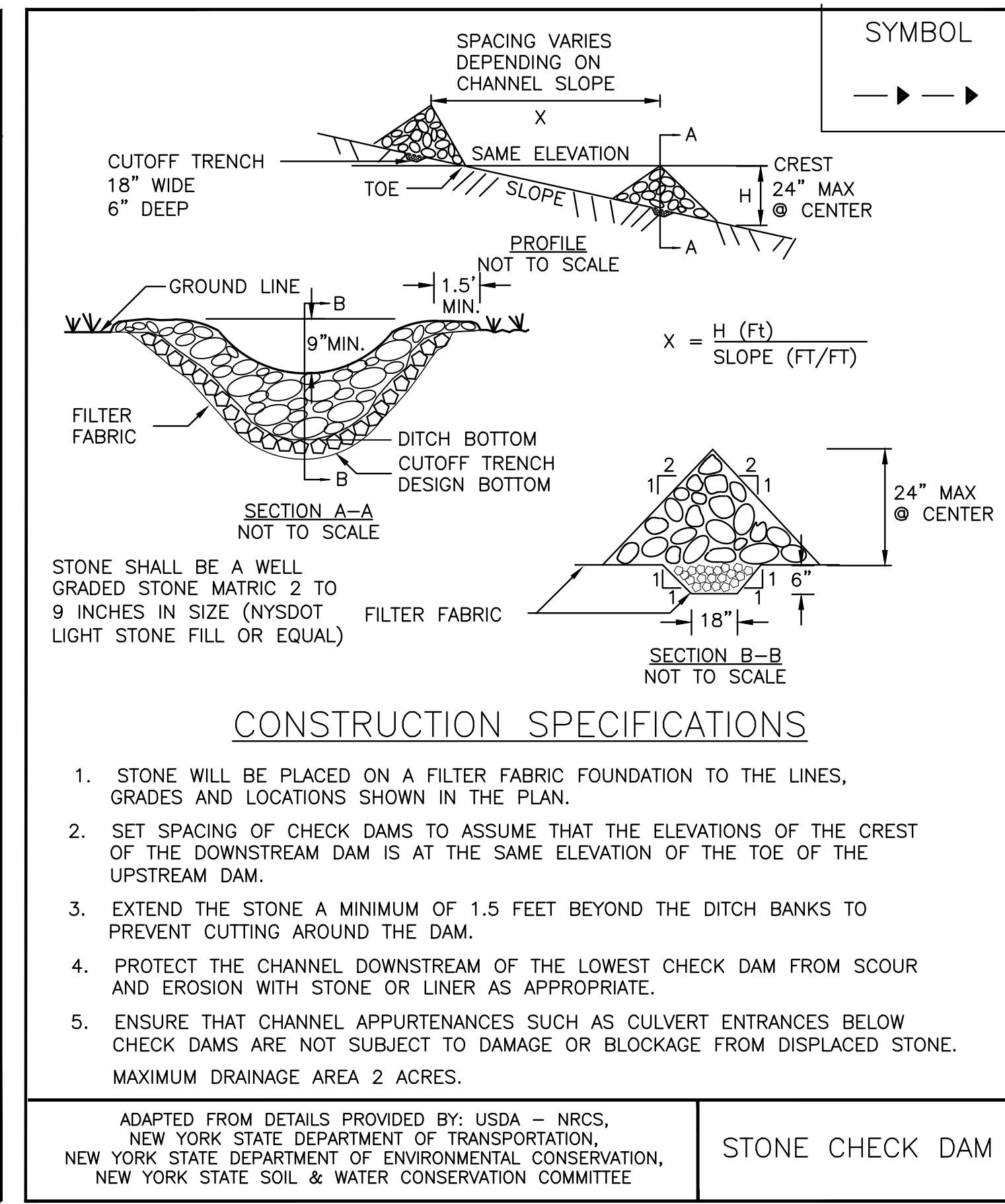
**2 DRYSWALE DETAIL**  
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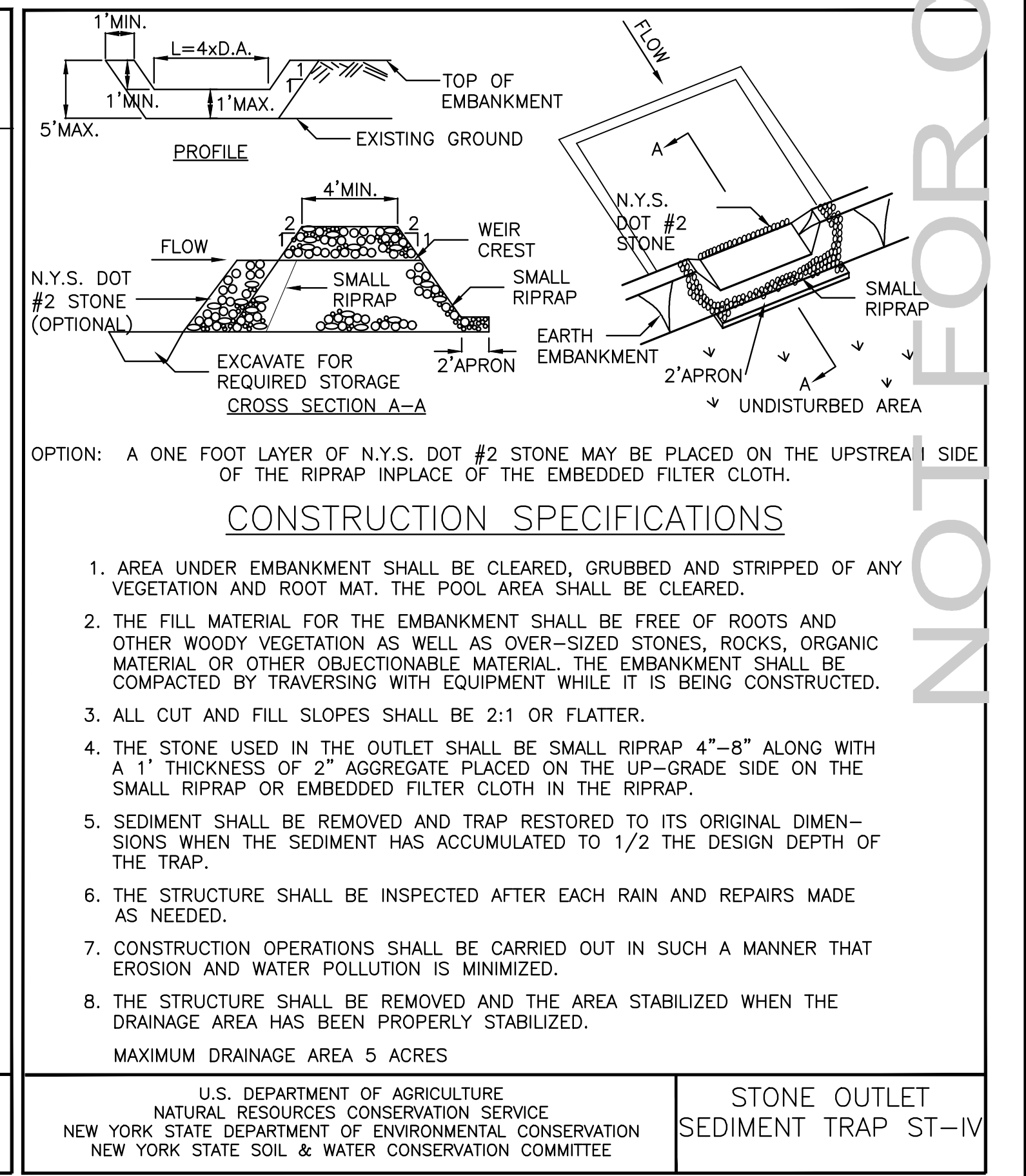
**3 STABILIZED CONSTRUCTION ENTRANCE DETAILS**  
C220 N.T.S.



**5 TURBIDITY CURTAIN DETAIL**  
C220 N.T.S.



**6 CHECK DAM DETAILS**  
C220 N.T.S.



**7 TEMPORARY SEDIMENT TRAP (TST) DETAIL**  
C220 N.T.S.

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EROSION AND SEDIMENT CONTROL DETAILS

SHEET NO.  
**C220**

PROJECT NO.  
0552.04219.1

DATE: 02/15/21

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