

C:\02020235 Astrid-Edgemont Ph2\Drawings\Construction Documents\20235 Swmp.dwg, 5/15/2024 2:38:51 PM, Steve Botchelder

EROSION AND SEDIMENT CONTROL PLAN GENERAL NOTES

1. THE DISTURBANCE AREA FOR THE PROJECT IS GREATER THAN ONE ACRE; THEREFORE, A STATE OF COLORADO CONSTRUCTION STORMWATER DISCHARGE PERMIT IS REQUIRED. THE CITY HAS OBTAINED A PERMIT FROM THE ARMY CORPS OF ENGINEERS FOR TEMPORARY AND PERMANENT WETLAND IMPACTS. THE CONTRACTOR SHALL COMPLY WITH THE CONDITIONS OF THIS PERMIT.
2. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. THE STORMWATER MANAGEMENT PLANS MAY BE MODIFIED WITH APPROPRIATE APPROVALS FROM THE ENGINEER, AND MAY REQUIRE ADDITIONAL MEASURES AS FIELD CONDITIONS WARRANT.
3. A THOROUGH INSPECTION OF THE STORMWATER MANAGEMENT PLAN BEST MANAGEMENT PRACTICES (BMPs) SHALL BE PERFORMED EVERY FOURTEEN (14) CALENDAR DAYS AND AFTER ANY PRECIPITATION OR SNOWMELT EVENT. PERIODIC INSPECTIONS SHALL ALSO INCLUDE INSPECTING EQUIPMENT FOR LEAKS AND REVIEWING MAINTENANCE PRACTICE. ALL INSPECTIONS AND MAINTENANCE SHALL BE DOCUMENTED BY THE PROJECT EROSION CONTROL SUPERVISOR AND MADE AVAILABLE TO THE ENGINEER UPON REQUEST. ANY EROSION CONTROL BMP THAT HAS BEEN COMPROMISED OR HAS BEEN DISTURBED SHALL BE REPLACED OR RECONSTRUCTED. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO HAVE ALL EROSION CONTROL BMPs IN PLACE AND EFFECTIVE PRIOR TO A STORM EVENT.
4. THE STORMWATER MANAGEMENT PLAN LOG BOOK SHALL BE UPDATED EVERY FOURTEEN (14) DAYS. THIS LOG SHALL REMAIN ON SITE AVAILABLE FOR REVIEW BY THE ENGINEER UPON REQUEST. MAINTENANCE ACTIVITIES TO CORRECT PROBLEMS NOTED DURING INSPECTIONS MUST BE DOCUMENTED AND KEPT IN THE STORMWATER MANAGEMENT PLAN LOG BOOK. THE STORMWATER MANAGEMENT PLAN MUST BE UPDATED TO REFLECT ALL CHANGES TO BMP'S AND PHASING AS THE CHANGES OCCUR.
5. ALL STREETS WITHIN AND IMMEDIATELY SURROUNDING A CONSTRUCTION SITE SHALL BE CLEANED OF DIRT AND DEBRIS ON A WEEKLY BASIS AND IMMEDIATELY FOLLOWING A SPILL OR TRACKING OF EARTH MATERIALS. STREETS SHALL BE CLEANED BY SCRAPING AND SWEEPING THE DIRT OFF OF THE ROADWAYS. SCRAPED OR SWEPT MATERIAL SHALL NOT BE DEPOSITED IN THE ROADSIDE DITCHES OR IN THE CREEK. DIRT TRACKED ONTO ROADWAYS AND OTHER PAVED SURFACES SHALL BE CLEANED UP BY THE END OF THE WORKDAY.
6. ALL CONSTRUCTION SITE OPERATORS SHALL CONTROL WASTE SUCH AS DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, HAZARDOUS CHEMICALS (TO INCLUDE BUT NOT LIMITED TO HEAVY EQUIPMENT MAINTENANCE FLUIDS, MOTOR OIL, ANTIFREEZE AND VEHICLE FUEL), LITTER, AND SANITARY WASTE AT THE CONSTRUCTION SITE THAT MAY CAUSE ADVERSE IMPACTS TO STORMWATER QUALITY.
7. ALL POTENTIAL POLLUTION SOURCES ON-SITE SHALL BE IDENTIFIED AND CONTROL MEASURES INSTALLED AND PRACTICED TO MINIMIZE THE LIKELIHOOD OF A RELEASE.
8. ALL PORTABLE TOILET FACILITIES SHALL BE LOCATED AWAY FROM GUTTERS, INLETS DITCHES, DRAINAGEWAYS, RECEIVING WATERS AND AREAS SUSCEPTIBLE TO FLOODING OR DAMAGE BY CONSTRUCTION EQUIPMENT.
9. ALL PORTABLE TOILET FACILITIES SHALL BE SECURED IN PLACE BY STAKES INTO THE GROUND TO PREVENT TIPPING.
10. STOCKPILES INCLUDING LANDSCAPING MATERIALS, EARTH MATERIALS AND DIRT FROM GRADING OR EXCAVATION SHALL NOT BE LOCATED ADJACENT TO WATERWAYS.
11. ALL MATERIAL IMPORTED TO OR EXPORTED FROM THE SITE SHALL BE PROPERLY COVERED TO PREVENT THE LOSS OF MATERIAL DURING TRANSPORT. HAUL ROUTES MUST BE PRE-APPROVED BY THE CITY. NO MATERIAL SHALL BE TRANSPORTED TO ANOTHER SITE WITHOUT FIRST OBTAINING A GRADING PERMIT FROM THE CITY.
12. THE CONCRETE WASHOUT CONTAINMENT STRUCTURE SHALL CONTAIN ALL WASHOUT WATER. STORMWATER SHALL NOT CARRY WASTES FROM WASHOUT LOCATION.
13. THE CONCRETE WASHOUT CONTAINMENT STRUCTURE SHALL BE LOCATED A MINIMUM OF FIFTY (50) FEET HORIZONTAL FROM WATERS OF THE STATE. THE CONCRETE WASHOUT CONTAINMENT STRUCTURE SHALL BE SIGNED AS - "CONCRETE WASHOUT."

PERFORMANCE STANDARD NOTES

1. TEMPORARY EROSION CONTROL FACILITIES AND/OR PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF AN EARTH DISTURBANCE OPERATION SHALL BE INSTALLED BEFORE ANY EARTH DISTURBANCE OPERATIONS TAKE PLACE.
2. EARTH DISTURBANCES SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION.
3. PERSONS ENGAGED IN EARTH DISTURBANCES SHALL DESIGN, IMPLEMENT, AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENTATION CONTROL MEASURES, IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS ADOPTED BY CDOT.
4. EARTH DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED AND COMPLETED IN SUCH A MANNER SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST POSSIBLE PERIOD OF TIME.
5. SEDIMENT CAUSED BY ACCELERATED SOIL EROSION SHALL BE REMOVED FROM RUNOFF WATER BEFORE IT LEAVES THE SITE OF THE EARTH DISTURBANCE.
6. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF WATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE WATER FLOW TO A NON-EROSIVE VELOCITY.
7. RECORDS OF SPILLS, LEAKS, OR OVERFLOWS THAT RESULT IN THE DISCHARGE OF POLLUTANTS MUST BE DOCUMENTED AND MAINTAINED. SOME SPILLS MAY NEED TO BE REPORTED TO THE DIVISION IMMEDIATELY: SPECIFICALLY, A RELEASE OF ANY CHEMICAL, OIL, PETROLEUM PRODUCT, SEWAGE, ETC., WHICH MAY ENTER WATERS OF THE STATE, MUST BE REPORTED. MORE GUIDANCE IS AVAILABLE ON THE WEB AT WWW.CDPHE.STATE.CO.US/BMP/SPILLSANDRELEASED.JSP. THE DIVISION'S TOLL FREE 24-HOUR ENVIRONMENTAL EMERGENCY SPILL REPORTING LINE IS 1.877.518.5608. IN ADDITION TO CONTACTING CDPHE, ALSO IMMEDIATELY CALL THE TOWN OF STEAMBOAT SPRINGS ENGINEERING DEPARTMENT AT 970-879-2060

BMP MAINTENANCE NOTES

1. IT IS ANTICIPATED THAT THE BMPs IMPLEMENTED AT THE SITE WILL HAVE TO BE MODIFIED TO ADAPT TO CHANGING CONDITIONS OR TO ENSURE THAT POTENTIAL POLLUTANTS ARE BEING PROPERLY MANAGED AT THE SITE. WHEN BMPs ARE MODIFIED, THE SWMP MUST BE MODIFIED TO ACCURATELY REFLECT THE ACTUAL FIELD CONDITIONS.
2. THE OWNER/CONTRACTOR SHALL CONTINUOUSLY MAINTAIN ALL SEDIMENT CONTROL LOGS AND SILT FENCING SO THAT IT FUNCTIONS PROPERLY DURING CONSTRUCTION AND WORK SUSPENSIONS. ALL SEDIMENT CONTROL LOGS AND SILT FENCING SHALL BE REMOVED BY THE CONTRACTOR UPON SUBSTANTIAL PERMANENT STABILIZATION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
3. ALL INLET/OUTLET PROTECTIONS WILL BE CHECKED FOR MAINTENANCE AND FAILURE. SEDIMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF ONCE IT HAS ACCUMULATED TO HALF THE DESIGN OF THE TRAP.
4. ALL SPILLS SHALL BE CLEANED UP IMMEDIATELY AFTER DISCOVERY, OR CONTAINED UNTIL APPROPRIATE CLEANUP METHODS CAN BE EMPLOYED. MANUFACTURE'S RECOMMENDED METHODS FOR SPILL CLEANUP SHALL BE FOLLOWED, ALONG WITH PROPER DISPOSAL METHODS.
5. EACH CONCRETE TRUCK OPERATOR SHALL BE AWARE OF THE DESIGNATED CONCRETE WASHOUT AREA.
6. THE CONTRACTOR SHALL CHECK THE CAPACITY FOR ALL CONCRETE WASHOUT AREAS. WASTE MATERIALS MUST BE REMOVED BY THE CONTRACTOR AND LEGALLY DISPOSED OF WHEN ACCUMULATIONS AMOUNT TO TWO-THIRDS OF THE WET STORAGE CAPACITY OF THE STRUCTURE.
7. ALL CONCRETE WASHOUT AREAS SHALL BE CLEARLY MARKED. THE CONCRETE WASHOUT CONTAINMENT DETAIL WILL INCLUDE ORANGE PLASTIC CONSTRUCTION FENCING OR EQUIVALENT AROUND THE WASHOUT STRUCTURE AND A SIGN POSTED WITH THE WORDS "CONCRETE WASHOUT".
8. THE CONCRETE WASHOUT AREA SHALL BE REPAIRED AND/OR ENLARGED AS NECESSARY TO MAINTAIN CAPACITY FOR WASTED CONCRETE.
9. AT THE END OF CONSTRUCTION, ALL CONCRETE SHALL BE REMOVED FROM THE SITE AND LEGALLY DISPOSED OF AT AN APPROVED WASTE SITE.

STANDARD CONSTRUCTION SITE MANAGEMENT PLAN NOTES

1. THIS PLAN SHALL BE KEPT ON SITE AT ALL TIMES AND UPDATED TO REFLECT ANY CHANGES.

2. CONCRETE WASTE AND WASHOUT WATER FROM MIXING TRUCKS SHALL BE CONTAINED ON SITE, REMOVED FROM THE SITE, AND PROPERLY DISPOSED. MATERIALS SHOULD NOT ENTER STATE WATERS.
3. CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING TEMPORARY EROSION AND SEDIMENT CONTROL DURING CONSTRUCTION AND ESTABLISHING ANY REQUIRED PERMANENT BEST MANAGEMENT PRACTICES (BMPs).
4. CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL LOCAL, STATE, AND FEDERAL LAWS. IN ADDITION CONTRACTOR MUST OBTAIN REQUIRED PERMITS.
5. CLEARING OR GRADING SHALL NOT BEGIN UNTIL ALL SEDIMENT CONTROL DEVICES HAVE BEEN INSTALLED.
6. THE CONTRACTOR SHALL PROMPTLY REMOVE ALL SEDIMENT, MUD, AND CONSTRUCTION DEBRIS THAT MAY ACCUMULATE IN THE RIGHT OF WAY, PRIVATE PROPERTY, OR WATER WAYS AS A RESULT OF THE CONSTRUCTION ACTIVITIES.
7. ALL INGRESS, EGRESS POINTS AND VEHICLE ACCESS POINTS ONTO DISTURBED SITE MUST BE STABILIZED WITH A VEHICLE TRACKING CONTROL PAD. ACCESS SHALL ONLY BE VIA APPROVED LOCATIONS AS SHOWN ON APPROVED CSMF.
8. SOIL STABILIZATION MEASURES SHALL BE IN PLACE AND AREAS ARE TO BE REVEGETATED:(1) FOR STOCKPILES, IF INACTIVE FOR MORE THAN 30 DAYS (2) FOR AREAS OF LAND DISTURBANCE WITHIN ONE GROWING SEASON.
9. INLET PROTECTION SHALL BE INSTALLED IN CONJUNCTION WITH STORM DRAIN INLETS WHERE DRAINAGE AREA IS NOT VEGETATED.
10. BMPs SHALL BE USED, MODIFIED, AND MAINTAINED WHENEVER NECESSARY TO REFLECT CURRENT CONDITIONS. BMPs SHALL BE INSPECTED WEEKLY AND AFTER EVERY PRECIPITATION EVENT. ACCUMULATED SEDIMENT SHALL BE REMOVED FROM BMPs WHEN THE SEDIMENT LEVEL REACHES ½ THE HEIGHT OF THE BMP.
11. EMERGENCY ACCESS MUST BE KEPT OBSTACLE FREE AND PASSABLE AT ALL TIMES.
12. FOR ANY WORK TO BE DONE IN THE RIGHT OF WAY, COORDINATE WITH THE CITY CONSTRUCTION SITE MANAGER REGARDING SPECIAL PERMITTING. NO WORK SHALL BE CONDUCTED IN THE ROW BETWEEN NOVEMBER 1 AND APRIL 1 WITHOUT PRIOR APPROVAL FROM THE DIRECTOR OF PUBLIC WORKS.
13. WHERE REQUIRED AS PART OF THE ROW PERMIT OR WHERE SITE WORK AFFECTS THE PEDESTRIAN OR VEHICLE TRAVEL WAY, TRAFFIC CONTROL SHALL BE INSTALLED. ALL TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION.
14. SIDEWALKS ADJACENT TO CONSTRUCTION SITES SHALL BE MAINTAINED, FOR PUBLIC USE, BY THE CONTRACTOR. IN AREAS WHERE CONSTRUCTION IS TAKING PLACE NEXT TO THE SIDEWALK AND OVERHEAD HAZARDS ARE POSSIBLE, CONTRACTOR IS RESPONSIBLE FOR INSTALLING AND MAINTAINING SIDEWALK PROTECTION.

STANDARD EROSION AND SEDIMENT CONTROL NOTES

1. THE CONTRACTOR MUST NOTIFY THE CITY OF STEAMBOAT SPRINGS AT LEAST THREE DAYS PRIOR TO STARTING CONSTRUCTION.
2. ALL GRADING, EROSION, AND SEDIMENT CONTROL MUST CONFORM TO APPROVED PLANS. REVISIONS TO DISTURBANCE AREAS, SLOPES, AND/OR EROSION AND SEDIMENT CONTROL MEASURES ARE NOT PERMITTED WITHOUT PRIOR APPROVAL FROM THE CITY OF STEAMBOAT SPRINGS.
3. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING A PERMIT FOR STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, AT LEAST 10 DAYS PRIOR THE START OF CONSTRUCTION ACTIVITIES FOR LAND DISTURBANCE AREAS OF ONE ACRE OR GREATER. THE PERMIT MUST BE KEPT CURRENT THROUGHOUT THE CONSTRUCTION DURATION. STATE STORMWATER PERMIT APPLICATIONS ARE AVAILABLE AT THIS ADDRESS: [HTTP://WWW.CDPHE.STATE.CO.US/NO/PERMITSUNIT/WOODPMTH.HTML](http://WWW.CDPHE.STATE.CO.US/NO/PERMITSUNIT/WOODPMTH.HTML)
4. EROSION CONTROL BEST MANAGEMENT PRACTICES (BMPs) MUST BE INSTALLED PRIOR TO GRADING ACTIVITIES, TO THE MAXIMUM EXTENT PRACTICABLE. ANY PROJECT THAT REQUIRES A STATE STORMWATER DISCHARGE PERMIT REQUIRES PHASING. PHASED EROSION CONTROL PLANS MUST BE PREPARED BY THE CONTRACTOR.
5. ALL TEMPORARY AND PERMANENT SOIL EROSION AND SEDIMENT CONTROL PRACTICES MUST BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. FOR EXAMPLE, EROSION CONTROL BLANKETS, SEDIMENT CONTROL LOGS, OR SILT FENCES WILL REQUIRE REPLACEMENT WHEN THE BMP FAILS. SEDIMENT TRAPS AND BASINS WILL REQUIRE SEDIMENT REMOVAL ACCORDING TO CDPHE GUIDELINES.
6. ALL TOPSOIL, WHERE PHYSICALLY PRACTICABLE, MUST BE SALVAGED AND NO TOPSOIL SHALL BE REMOVED FROM THE SITE EXCEPT AS SET FORTH IN THE APPROVED PLANS. TOPSOIL AND OVERBURDEN MUST BE SEGREGATED AND STOCKPILED SEPARATELY. TOPSOIL AND OVERBURDEN MUST BE REDISTRIBUTED WITHIN THE GRADED AREA AFTER ROUGH GRADING TO PROVIDE A SUITABLE BASE FOR AREAS THAT MUST BE SEEDED AND PLANTED. RUNOFF FROM THE STOCKPILED AREA MUST BE CONTROLLED TO PREVENT EROSION AND SEDIMENTATION OF RECEIVING WATERS. TOPSOIL IS TO BE AMENDED WITH COMPOST TO PROMOTE SEED GROWTH.
7. THE LANDOWNER AND/OR CONTRACTOR MUST IMMEDIATELY TAKE ALL NECESSARY STEPS TO CONTROL SEDIMENT DISCHARGE.
8. THE LANDOWNER AND/OR CONTRACTOR IS RESPONSIBLE FOR CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.
9. THE LANDOWNER AND/OR CONTRACTOR MUST TAKE REASONABLE PRECAUTIONS TO ENSURE THAT VEHICLES DO NOT TRACK OR SPILL EARTH MATERIALS ON TO STREETS/ROADS AND MUST IMMEDIATELY REMOVE SUCH MATERIALS IF THIS OCCURS.
10. THE CONTRACTOR IS RESPONSIBLE FOR CONTROLLING *LITTER SUCH AS DISCARDED BUILDING MATERIALS. CONCRETE TRUCK WASHOUT, CHEMICALS, AND SANITARY WASTE, AS APPLICABLE. IN ADDITION, SPILL PREVENTION AND CONTAINMENT BMPs FOR CONSTRUCTION MATERIALS, WASTE, AND FUEL MUST BE PROVIDED, AS APPLICABLE. LOCATIONS OF STOCKPILES, CONCRETE WASHOUT AREAS, AND TRASH RECEPTACLES MUST BE CLEARLY SHOWN ON THE PLANS. *LITTERING IS DEFINED AND ENFORCED BY COLORADO REVISED STATUTES, SECTION 18-4-511.
11. THE STORM SEWER LINES WILL BE CLEANED BY CONTRACTOR UPON COMPLETION OF THE PROJECT.
12. SEEDING AND MULCHING SHALL BE COMPLETED WITHIN 30 DAYS OF INITIAL EXPOSURE OR 7 DAYS AFTER GRADING IS SUBSTANTIALLY COMPLETED IN A GIVEN AREA. THIS MAY REQUIRE MULTIPLE MOBILIZATIONS FOR SEEDING AND MULCHING.
13. TEMPORARY VEGETATIVE COVER CONSISTING OF ANNUAL RYE GRASS MUST BE HYDRO-SEEDED AT 20 POUNDS PURE LIVE SEED PER ACRE. MULCH CONSISTING OF GRASS HAY, APPLIED AT A RATE OF ONE TON PER ACRE AND CRIMPED MUST BE USED TO STABILIZE THE EXPOSED SURFACE.
14. MULCH CONSISTING OF GRASS HAY, APPLIED AT A RATE OF ONE TON PER ACRE AND CRIMPED MUST BE USED TO STABILIZE THE EXPOSED SURFACE. SEE EROSION CONTROL PLAN FOR LOCATIONS OF EROSION CONTROL BLANKETS.
15. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY, AS DEFINED BY THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, AT THE TIME OF GRADING. DURING GRADING, APPLYING A COMBINATION OF WATER, TACKIFIER AND SILT FENCE TO BREAK UP WIND SURFACE VELOCITIES MAY CONTROL DUST. IF WIND SPEEDS EXCEED THE ABILITY OF BMPs TO CONTROL FUGITIVE DUST, GRADING ACTIVITIES MUST CEASE. THE CONTRACTOR SHALL OBTAIN A PERMIT FROM THE CDPHE AIR POLLUTION CONTROL DIVISION IF REQUIRED.
16. ALL DISTURBED FILL SLOPES GREATER THAN OR EQUAL TO 3:1, FLOWLINES OF SWALES, GUTTER DOWNSPOUTS, OR ADDITIONAL AREAS AT THE DISCRETION OF COUNTY STAFF, SHALL BE PROTECTED WITH AN EROSION BLANKET. SEE EROSION CONTROL PLANS FOR ADDITIONAL LOCATIONS OF EROSION CONTROL BLANKETS.
17. THE CITY OF STEAMBOAT SPRINGS, OR ITS AUTHORIZED REPRESENTATIVE, MAY MODIFY THE EROSION AND SEDIMENT CONTROL PLAN AS FIELD CONDITIONS WARRANT.
18. THE CONTRACTOR IS RESPONSIBLE FOR PREPARING AND SUBMITTING A TEMPORARY DEWATERING PLAN IF NEEDED TO THE CITY OF STEAMBOAT SPRINGS FOR REVIEW AND APPROVAL 10 DAYS PRIOR TO INITIATING CONSTRUCTION.
19. BMP MAINTENANCE AND REPLACEMENT MAY REQUIRE PERIODIC WORK. THIS IS TO OCCUR PER CDPHE REQUIREMENTS IMMEDIATELY, AND AT SPECIFIC POINTS OF SEDIMENT ACCUMULATION, PHASING, OR DAILY ACTIVITIES.

SITE DESCRIPTION	
CONSTRUCTION ACTIVITY	THERE ARE SEVEN MULTI-FAMILY/CONDO BUILDINGS PROPOSED ON THE PROPERTY AS WELL AS ASSOCIATED DRIVES, SIDEWALK, SANITARY SEWER, WATER, STORM SEWER, DRY UTILITIES, LANDSCAPING, AND A POOL AND ASSOCIATED BUILDING.
DISTURBANCE AREA	DISTURBANCE AREA = APPROX. 3.5 ACRES
RUNOFF COEFFICIENTS	Q5 = 22.7 Q100 = 120.6
EXISTING VEGETATION	MAJORITY OF COVER IS GRAVEL AND NATIVE GRASS.
SOIL CONDITION	GENERALLY, SURFACE SOIL CONDITIONS CONSIST OF ROUITT LOAM WHICH IS POORLY DRAINED. THE SOIL IS CLASSIFIED AS HYDROLOGIC SOIL GROUP C.
PROPOSED LANDSCAPE AREA	1.85 ACRES
POTENTIAL POLLUTION SOURCES	SEDIMENT, ASPHALT PAVEMENT, VEHICLE REFUELING, LEAKING VEHICLES, OFF-SITE VEHICLE TRACKING, CONCRETE
LOCATION OF NON-STORMWATER DISCHARGE	THE CONTRACTOR WILL DESIGNATE A CONFINED, CONCRETE WASH-OUT AREA ON SITE.
NAME AND LOCATION OF RECEIVING WATERS	STORMWATER FOLLOWS EXISTING DITCHES AND STORM SEWER TO THE YAMPA RIVER LOCATED SOUTHWEST OF THE SITE.
OVERALL SCOPE / PROJECT CHARACTERISTICS	
INDUSTRIAL ACTIVITIES	NONE KNOWN
FINAL SITE DISPOSITION	THE SITE WILL BE RETURNED TO ORIGINAL CONDITIONS OR BETTER. TREES WILL BE REMOVED THAT CONFLICT WITH PROPOSED ROADWAY & DRAINAGE FACILITIES. DISTURBED SLOPES WILL RECEIVE LANDSCAPING TREATMENT (NATIVE GRASS, WOOD MULCH, PLANTINGS, ETC.)
EROSION CONTROL MEASURES	STRAW WATTLES OR SILT FENCE WILL BE AT THE TOE OF FILL SLOPES TO MINIMIZE SEDIMENT TRANSPORT. INLET AND OUTLET PROTECTION WILL BE PROVIDED AT ALL CULVERTS AND STORM SEWER. GRAVEL FILTER BAGS WILL BE PLACED WITHIN SWALES. A CONCRETE WASH-OUT AREA WILL BE PROVIDED. A VEHICLE TRACKING PAD WILL BE PROVIDED TO REDUCE TRACKING MUD ONTO THE EXISTING ASPHALT.
OFFSITE FLOWS	OFFSITE FLOWS ENTERING THE PROJECT AREA HAVE A 100-YEAR FLOW OF 114.1 CFS. STORM SEWER UNDER MOUNT WERNER ROAD WILL CONVEY OFFSITE FLOWS SOUTH.
SCHEDULE OF GRADING ACTIVITIES/SEQUENCE	
1. INSTALL EROSION CONTROL MEASURES 2. EARTHWORK/GRADING 3. UTILITY CONSTRUCTION 4. FINE GRADING	5. CONCRETE PAVING 6. ASPHALT PAVING 7. FINAL STABILIZATION
BEST MANAGEMENT PRACTICES (BMP's)	
STORM WATER QUALITY BEST MANAGEMENT PRACTICES SHALL BE IMPLEMENTED TO MINIMIZE SOIL EROSION, SEDIMENTATION, INCREASED POLLUTION LOADS AND CHANGED WATER FLOW CHARACTERISTICS RESULTING FROM LAND DISTURBING ACTIVITY TO THE MAXIMUM EXTENT PRACTICAL, AS TO MINIMIZE POLLUTION OF RECEIVING WATERS.	
MATERIALS HANDLING AND SPILL PREVENTION	MATERIALS EXPECTED TO BE PRESENT ARE AS FOLLOWS: PETROLEUM PRODUCTS & CONCRETE. NO CHEMICALS OR FUELS ARE TO BE STORED ON SITE. THE FOLLOWING MATERIAL MANAGEMENT PRACTICES SHALL BE USED TO REDUCE THE RISK OF SPILLS OR OTHER ACCIDENTAL EXPOSURE OF MATERIALS AND SUBSTANCES TO STORM WATER RUNOFF. •PRODUCTS WILL BE KEPT IN ORIGINAL CONTAINERS WITH ORIGINAL MANUFACTURER LABEL. •ALL OF THE PRODUCT WILL BE USED UP BEFORE DISPOSING OF THE CONTAINER. •ALL ONSITE VEHICLES WILL BE MONITORED FOR LEAKS AND RECEIVE REGULAR PREVENTATIVE MAINTENANCE. •CONCRETE TRUCKS WILL BE ALLOWED MINIMAL WASHING ONLY IN DESIGNATED WASHOUT AREA. •THE SWMP ADMINISTRATOR SHALL BE NOTIFIED OF ANY SPILLS. CONTAINMENT OF THE SPILL MUST OCCUR IMMEDIATELY. IN THE EVENT OF A SPILL THE FOLLOWING AGENCIES MUST BE CONTACTED: COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT 303-692-3500 CITY OF STEAMBOAT SPRINGS PUBLIC WORKS DEPARTMENT - 970-871-8207
OTHER CONTROLS	WASTE MATERIALS WILL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE WILL BE DEPOSITED IN A DUMPSTER. ALL PERSONNEL WILL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. ALL SANITARY WASTE WILL BE COLLECTED FROM PORTABLE UNITS A MINIMUM OF THREE TIMES PER WEEK. THE PAVED STREET ADJACENT TO THE SITE SHALL BE SWEEPED TO REMOVE ANY EXCESS MUD, DIRT OR ROCK TRACKED FROM THE SITE.
INSPECTION AND MAINTENANCE	INSPECTIONS: 1. PERFORM EVERY 14 DAYS, AND FOLLOWING A STORM EVENT 2. COMPLETE AN INSPECTION REPORT FOR EACH INSPECTION PERFORMED 3. KEEP INSPECTION REPORTS ON SITE: 1. PERFORM MAINTENANCE ON ITEMS OR AREAS IDENTIFIED IN THE INSPECTION REPORT IMMEDIATELY. 2. PERFORM MAINTENANCE AS INDICATED IN THE URBAN DRAINAGE & FLOOD CONTROL DISTRICT, URBAN STORM DRAINAGE CRITERIA MANUAL, VOL 3, PER MANUFACTURER'S SPECIFICATIONS OR OTHER SOURCES DETERMINED TO BE ACCEPTABLE. AN EFFICIENT RECORD-KEEPING SYSTEM IS A HELPFUL TOOL IN MANAGING INSPECTION AND MAINTENANCE REPORTS. IT IS RECOMMENDED THAT A LOGBOOK BE MAINTAINED FOR INSPECTION REPORTS, MAINTENANCE RECORDS, SPILL RESPONSE, WEATHER CONDITIONS, TRAINING CORRESPONDENCE, ETC.

REVIEWED
FOR
CODE
COMPLIANCE
04/01/2025



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DESIGNED BY
SMB

DATE
2/29/2024

PREPARED BY
SMB

REVISION DESCRIPTION
INITIAL SUBMITTAL FOR CITY REVIEW

DRAWN BY
TJM

CITY COMMENTS

CHECKED BY
MRB

5/15/2024

STEAMBOAT ESQUJAR LP

THE ASTRID
2410 SKI TRAIL LANE
STORM WATER MANAGEMENT PLAN

CITY OF STEAMBOAT SPRINGS

ROUTT COUNTY

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM SURVEY DATE
LANDMARK, INC 06/03/22

JOB NO. C020235

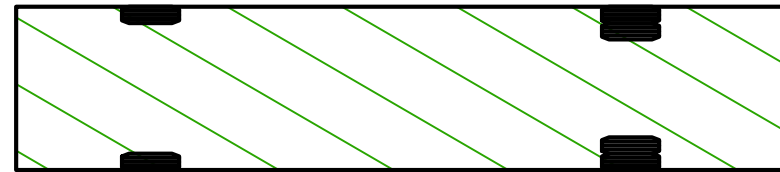
DRAWING NAME
STORM WATER MANAGEMENT PLAN

SHEET 26 OF 64

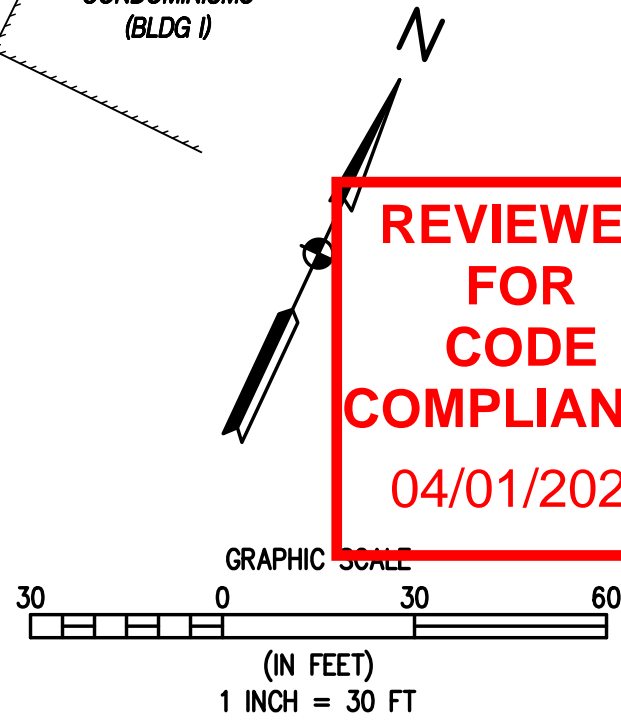
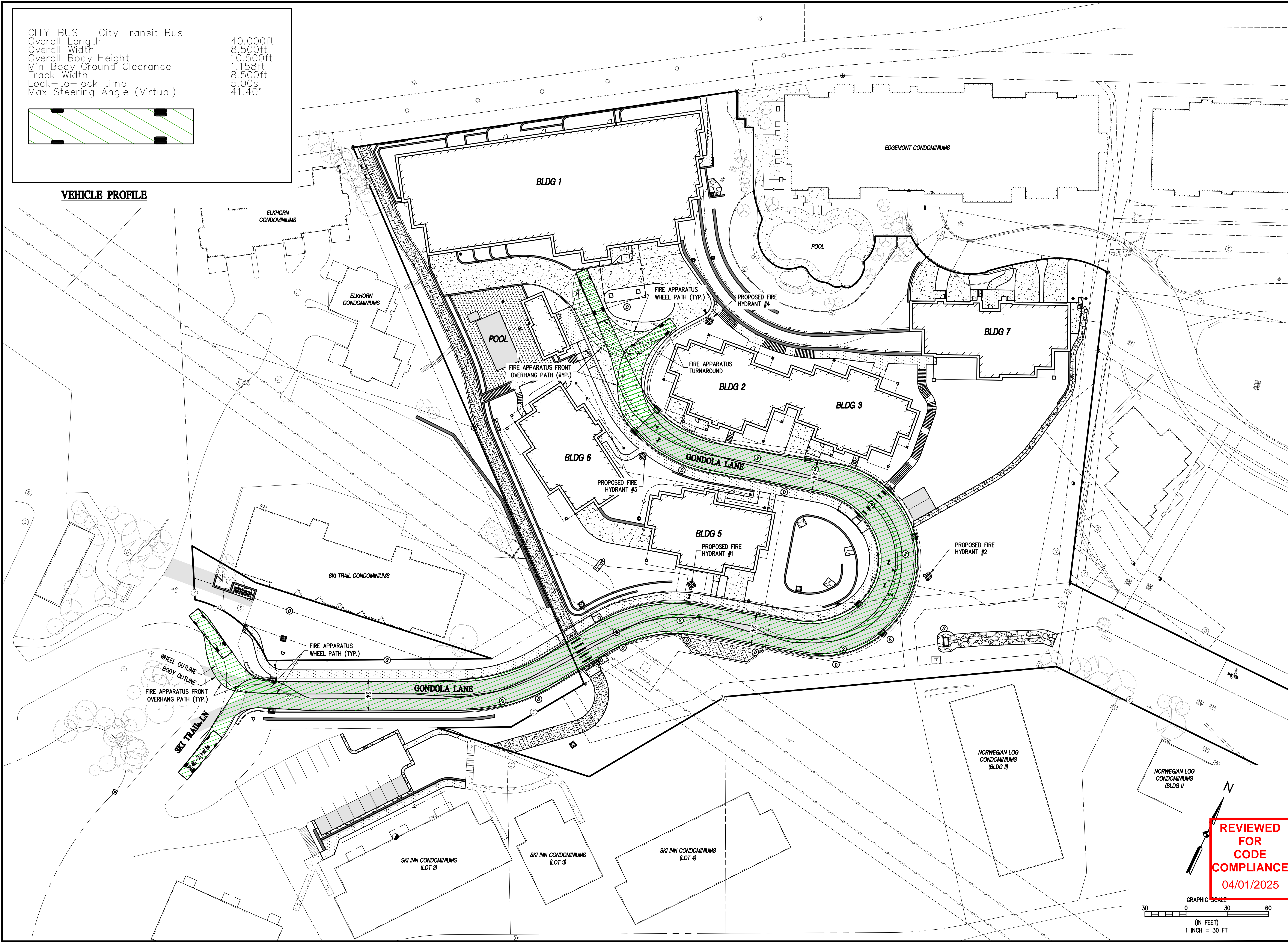
C26

O:\C020235 Astrid-Edgemont Ph2\Drawings\Construction Documents\20235 FIRE APPARATUS ACCESS PLAN-CD.dwg, 5/15/2024 2:39:44 PM, Steve Batchelder

CITY-BUS - City Transit Bus
Overall Length 40.000ft
Overall Width 8.500ft
Overall Body Height 10.500ft
Min Body Ground Clearance 1.158ft
Track Width 8.500ft
Lock-to-lock time 5.00s
Max Steering Angle (Virtual) 41.40°



VEHICLE PROFILE



REVIEWED
FOR
CODE
COMPLIANCE
04/01/2025

BASELINE

Engineering - Planning - Surveying

169 HILLTOP PKWY, SUITE 204 • STEAMBOAT SPRINGS, CO 80477
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DESIGNED BY	SMB	DATE	2/29/2024
PREPARED BY	SMB	CITY COMMENTS	
DRAWN BY	TJM		
CHECKED BY	MRB		

CITY OF STEAMBOAT SPRINGS

THE ASTRID
2410 SKI TRAIL LANE
VEHICLE TRACKING ANALYSIS PLAN

ROUTT COUNTY

FOR AND ON BEHALF OF
BASELINE CORPORATION

PROFESSIONAL ENGINEER
34962
5-15-24

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC.

SURVEY DATE 06/03/22

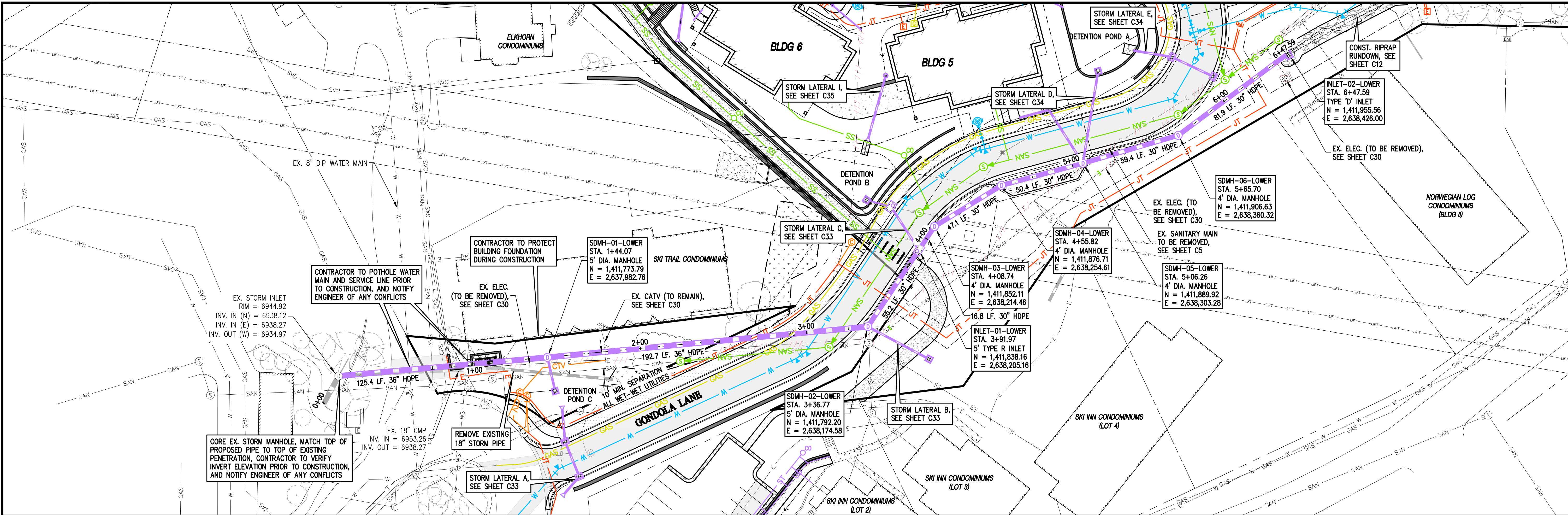
JOB NO. C020235

DRAWING NAME VEHICLE TRACKING ANALYSIS PLAN

SHEET 27 OF 64

C27

Q:\C020235 Astrid-Edgemont Ph2\Drawings\Construction Documents\20235 P&P-STORM MAIN-CD.dwg, 5/15/2024, 2:43:22 PM, Steve Borchelder



CORE EX. STORM MANHOLE, MATCH TOP OF PROPOSED PIPE TO TOP OF EXISTING PENETRATION, CONTRACTOR TO VERIFY INVERT ELEVATION PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEER OF ANY CONFLICTS

CONTRACTOR TO POTHOLE WATER MAIN AND SERVICE LINE PRIOR TO CONSTRUCTION, AND NOTIFY ENGINEER OF ANY CONFLICTS

CONTRACTOR TO PROTECT BUILDING FOUNDATION DURING CONSTRUCTION

SDMH-01-LOWER STA. 1+44.07
5' DIA. MANHOLE
N = 1,411,773.79
E = 2,637,982.76

EX. CATV (TO REMAIN), SEE SHEET C30

STORM LATERAL C, SEE SHEET C33

SDMH-03-LOWER STA. 4+08.74
4' DIA. MANHOLE
N = 1,411,852.11
E = 2,638,214.46

SDMH-04-LOWER STA. 4+55.82
4' DIA. MANHOLE
N = 1,411,876.71
E = 2,638,254.61

SDMH-05-LOWER STA. 5+06.26
4' DIA. MANHOLE
N = 1,411,889.92
E = 2,638,303.28

SDMH-06-LOWER STA. 5+65.70
4' DIA. MANHOLE
N = 1,411,906.63
E = 2,638,360.32

INLET-02-LOWER STA. 6+47.59
TYPE 'D' INLET
N = 1,411,955.56
E = 2,638,426.00

EX. ELEC. (TO BE REMOVED), SEE SHEET C30

EX. ELEC. (TO BE REMOVED), SEE SHEET C30

EX. SANITARY MAIN TO BE REMOVED, SEE SHEET C5

STORM LATERAL B, SEE SHEET C33

SDMH-02-LOWER STA. 3+36.77
5' DIA. MANHOLE
N = 1,411,792.20
E = 2,638,174.58

REMOVE EXISTING 18" STORM PIPE

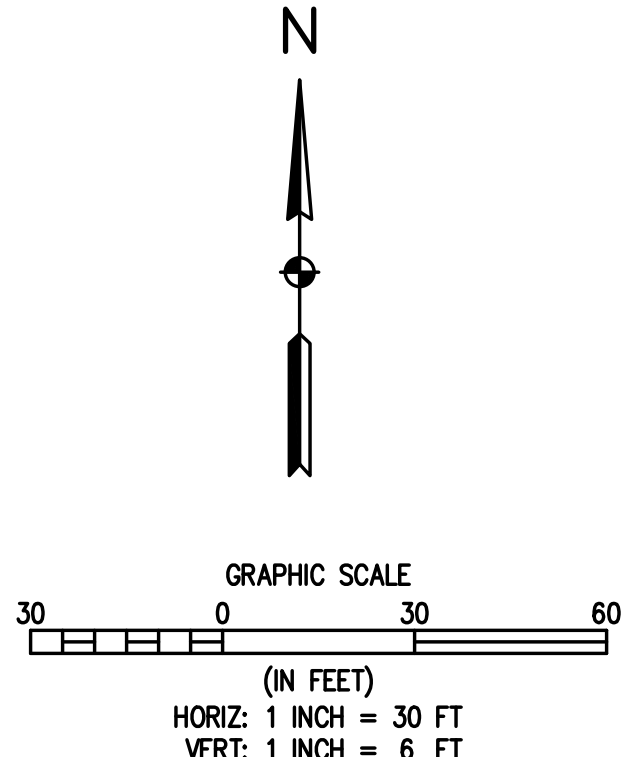
STORM LATERAL A, SEE SHEET C33

EX. 18" CMP
INV. IN = 6953.26
INV. OUT = 6938.27

EX. STORM INLET
RIM = 6944.92
INV. IN (N) = 6938.12
INV. IN (E) = 6938.27
INV. OUT (W) = 6934.97

NOTES:
1. ALL INLETS TO HAVE 2' DEEP SUMP.
2. ALL PIPE LENGTHS ARE TO CENTER OF STRUCTURE.
3. ALL TYPE C AND TYPE D INLETS TO HAVE CLOSED MESH GRATE.

REVIEWED FOR CODE COMPLIANCE
04/01/2025



STORM SEWER MAIN PLAN & PROFILE I

BASELINE

Engineering - Planning - Surveying

169 HILLTOP PKWY, SUITE 204 • STEAMBOAT SPRINGS, CO 80477
P. 970.781.925 • F. 303.940.9569 • www.baselinecorp.com

DESIGNED BY

SMB

DATE

2/29/2024

PREPARED BY

SMB

DATE

5/15/2024

REVISION

DESCRIPTION

INITIAL

SUBMITTAL FOR CITY REVIEW

CITY COMMENTS

ROUTT COUNTY

CITY OF STEAMBOAT SPRINGS

THE ASTRID
2410 SKI TRAIL LANE
STORM SEWER MAIN PLAN & PROFILE I

FOR AND ON BEHALF OF
BASELINE CORPORATION

PROFESSIONAL ENGINEER
5-15-24
34962

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL

2/29/2024

DRAWING SIZE

24" X 36"

SURVEY FIRM

LANDMARK, INC

SURVEY DATE

06/03/22

JOB NO.

C020235

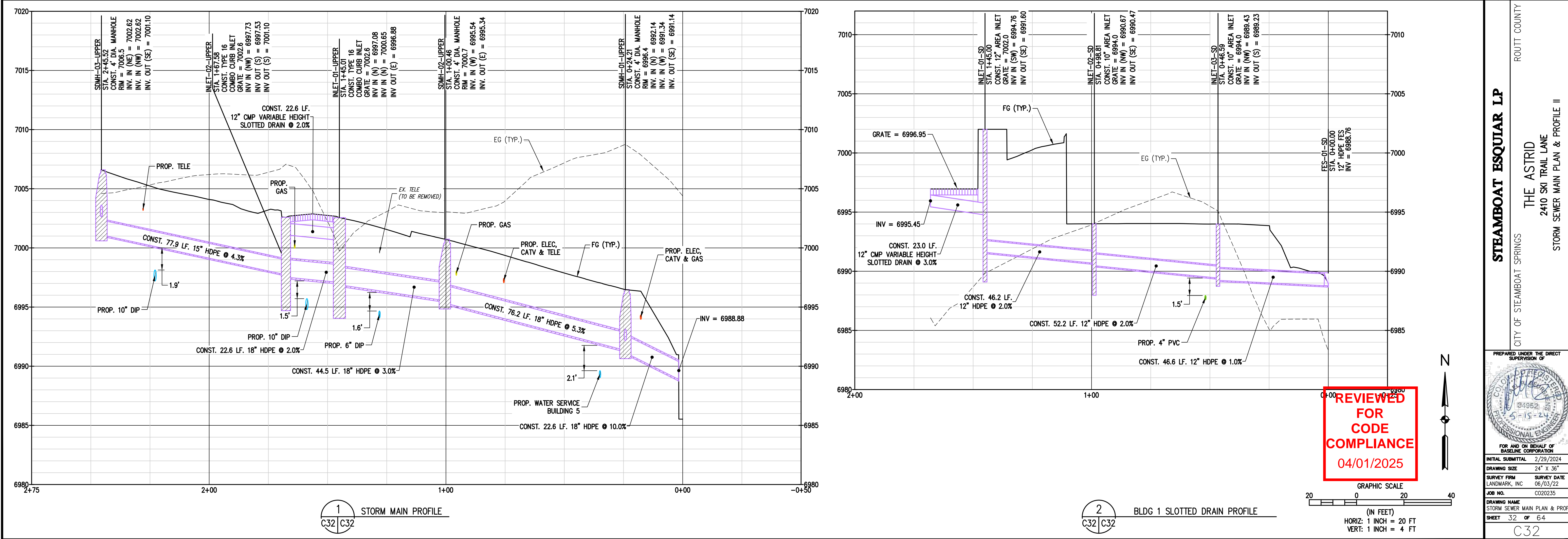
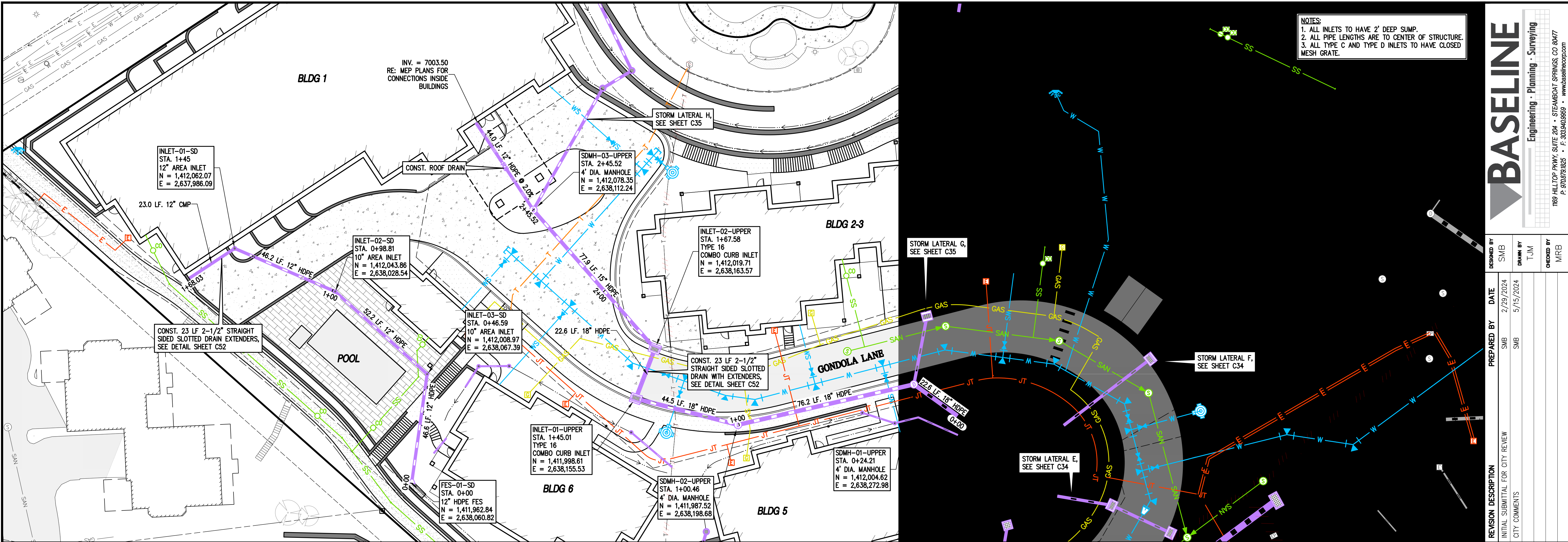
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STORM SEWER MAIN PLAN & PROFILE I

SHEET

31 OF 64

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REVISION	DESCRIPTION	DATE	PREPARED BY	CHECKED BY
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2	CITY COMMENTS	5/15/2024	SMB	TJM
3				MRB

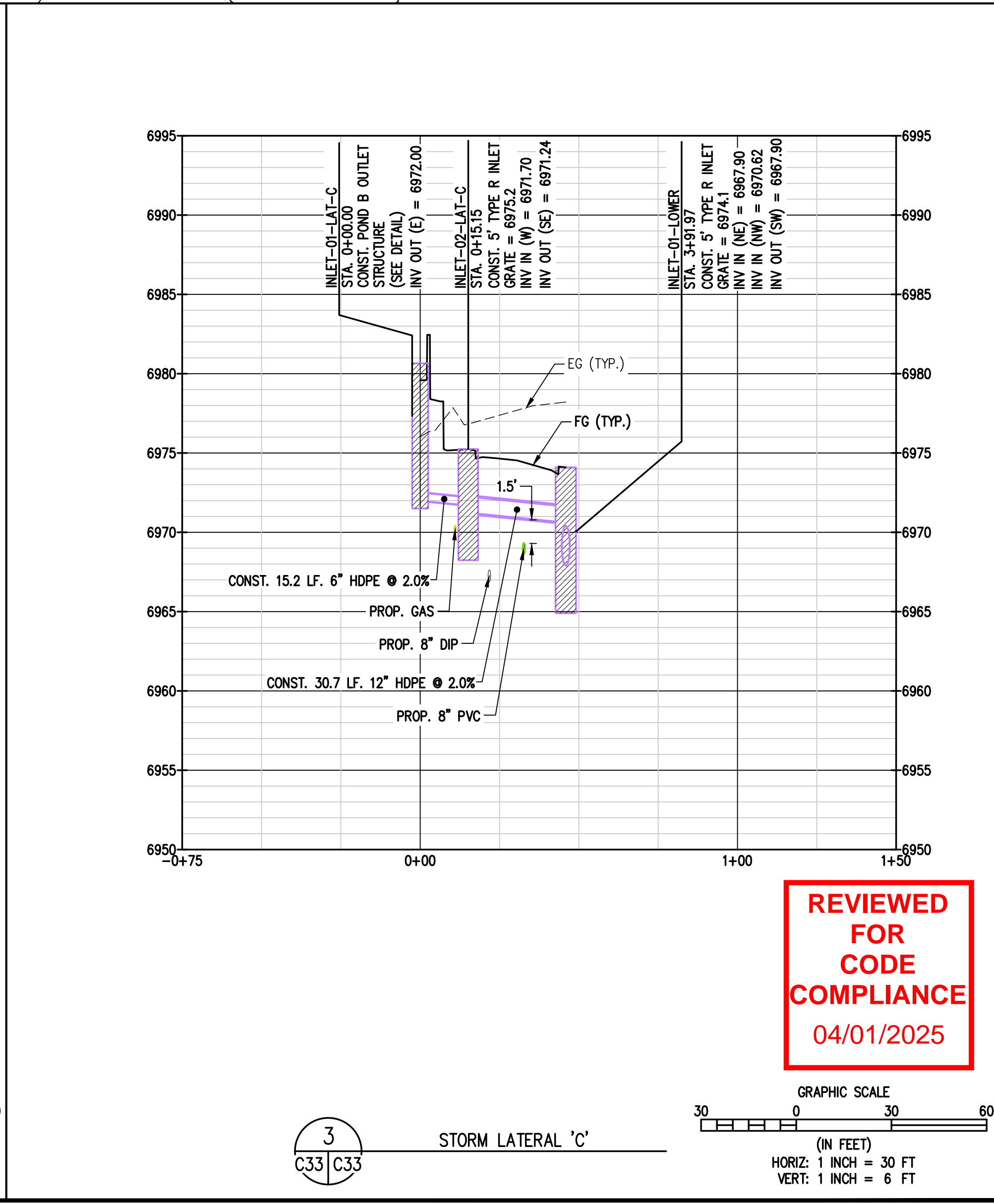
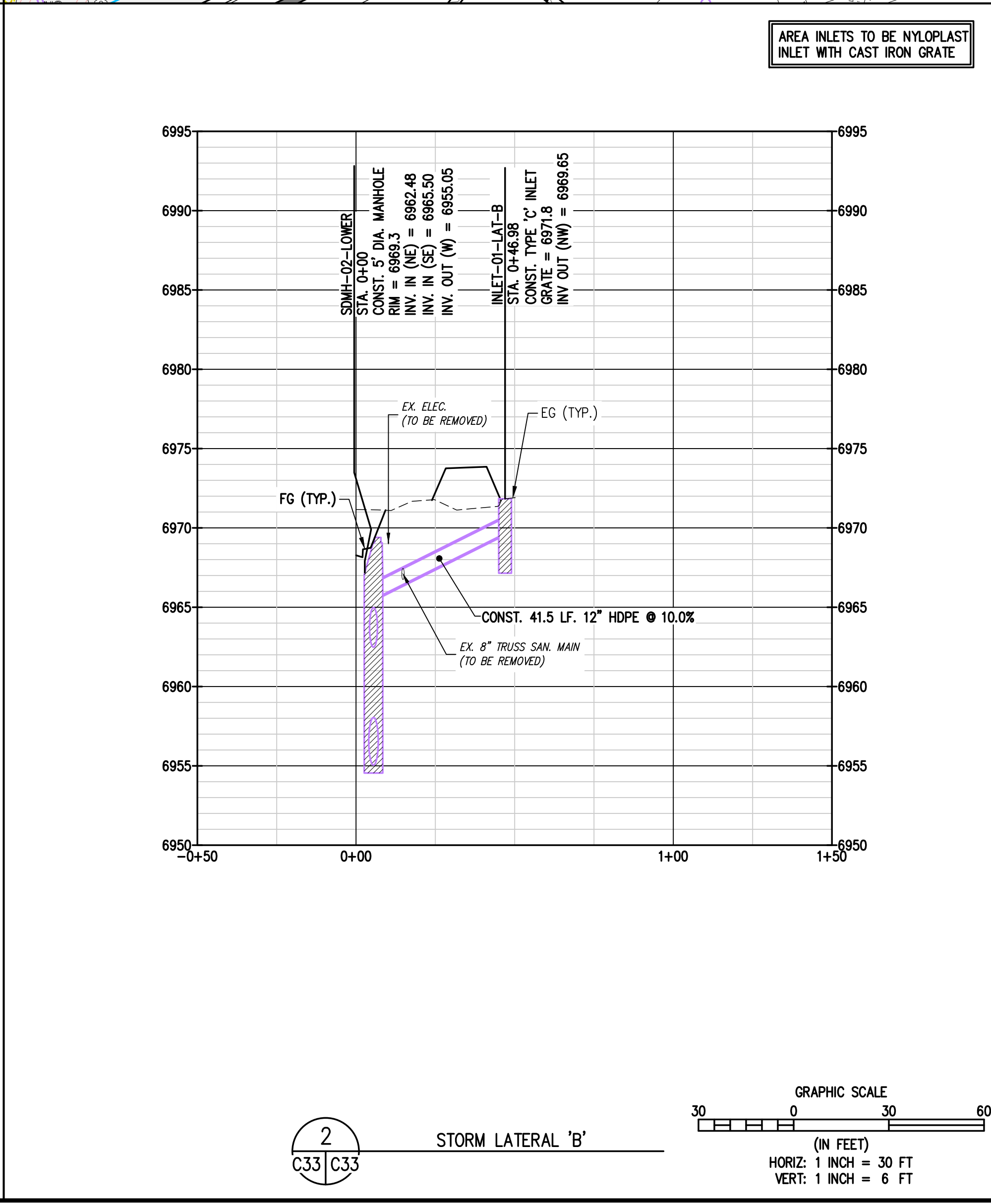
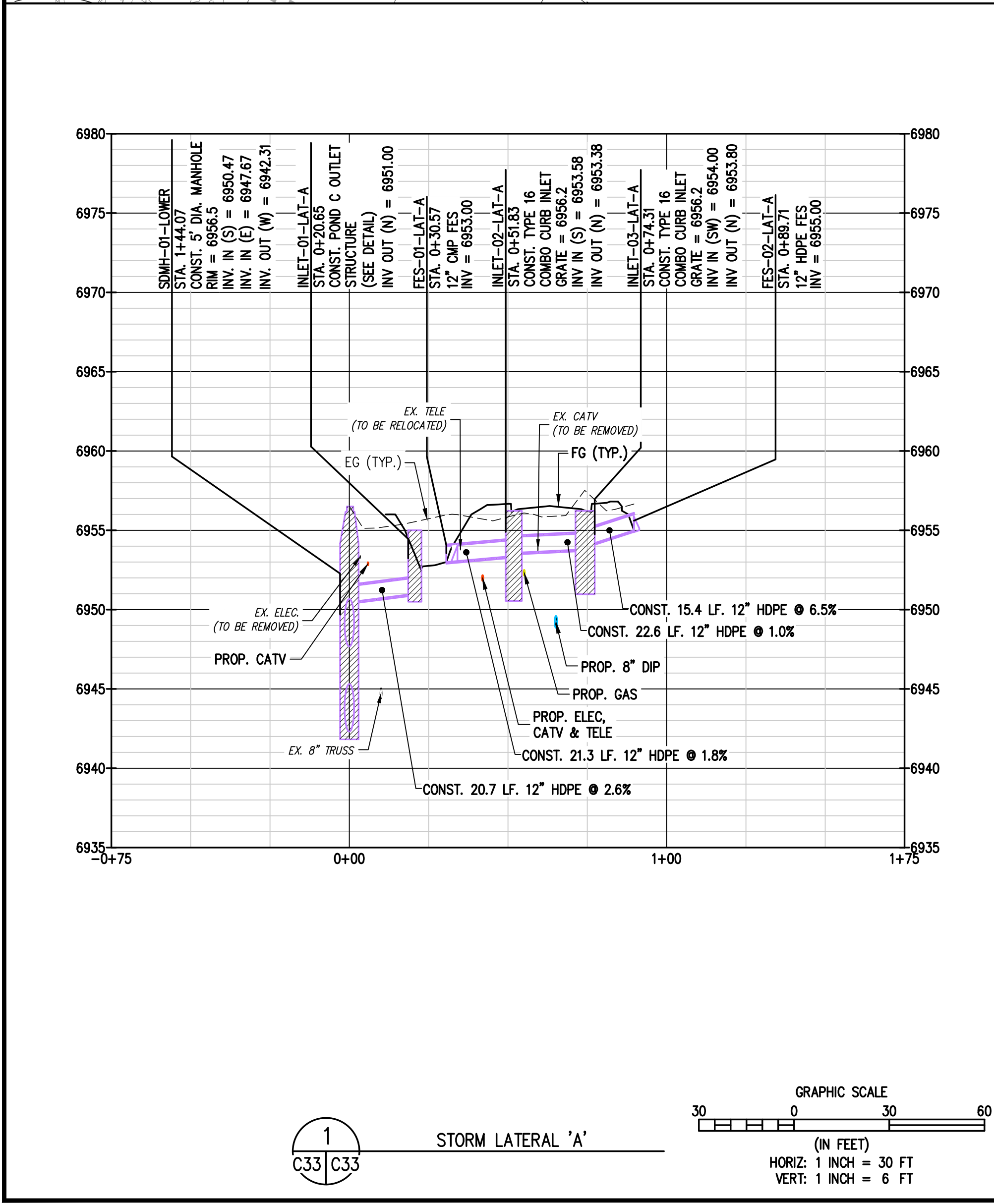
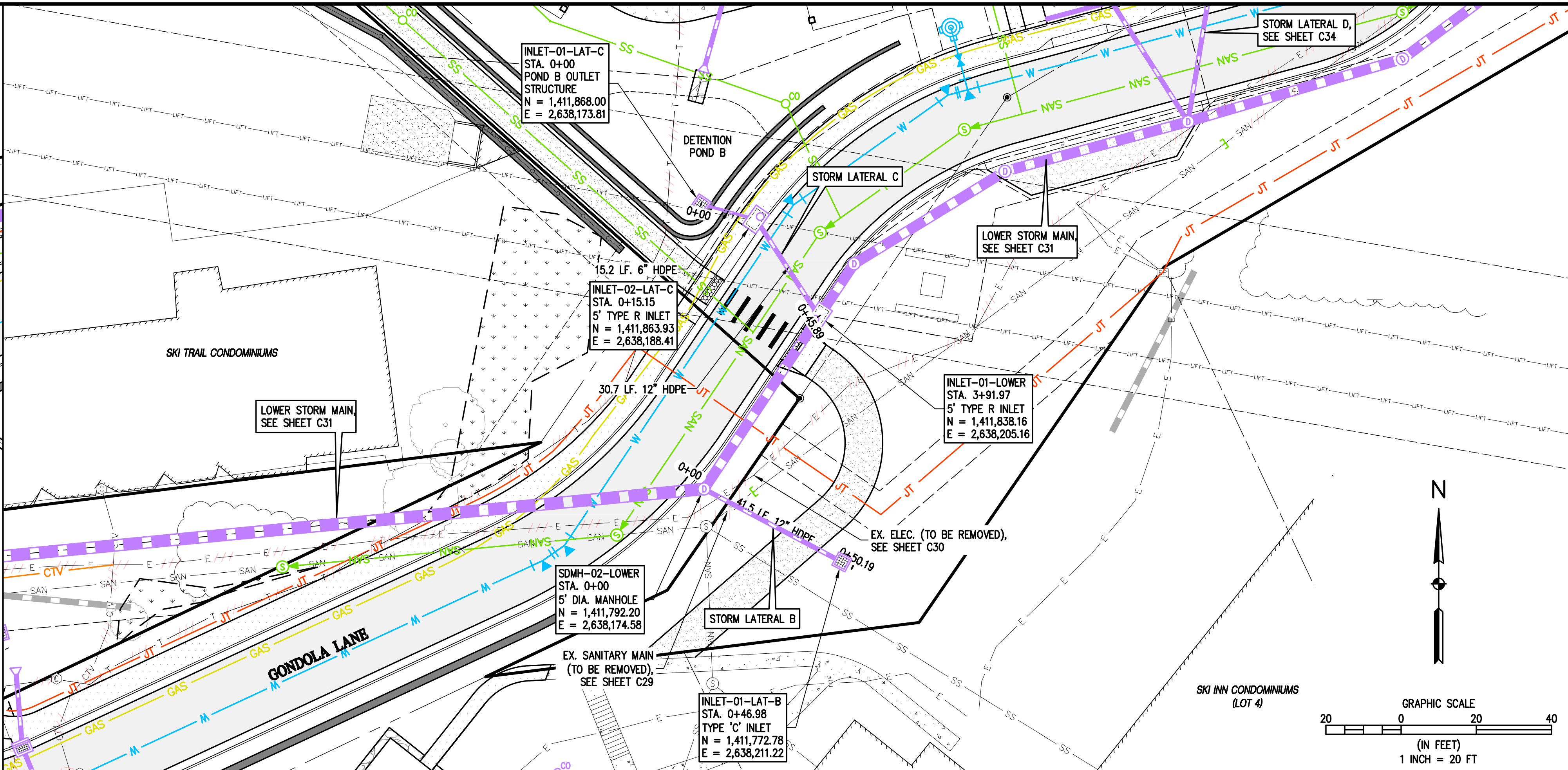
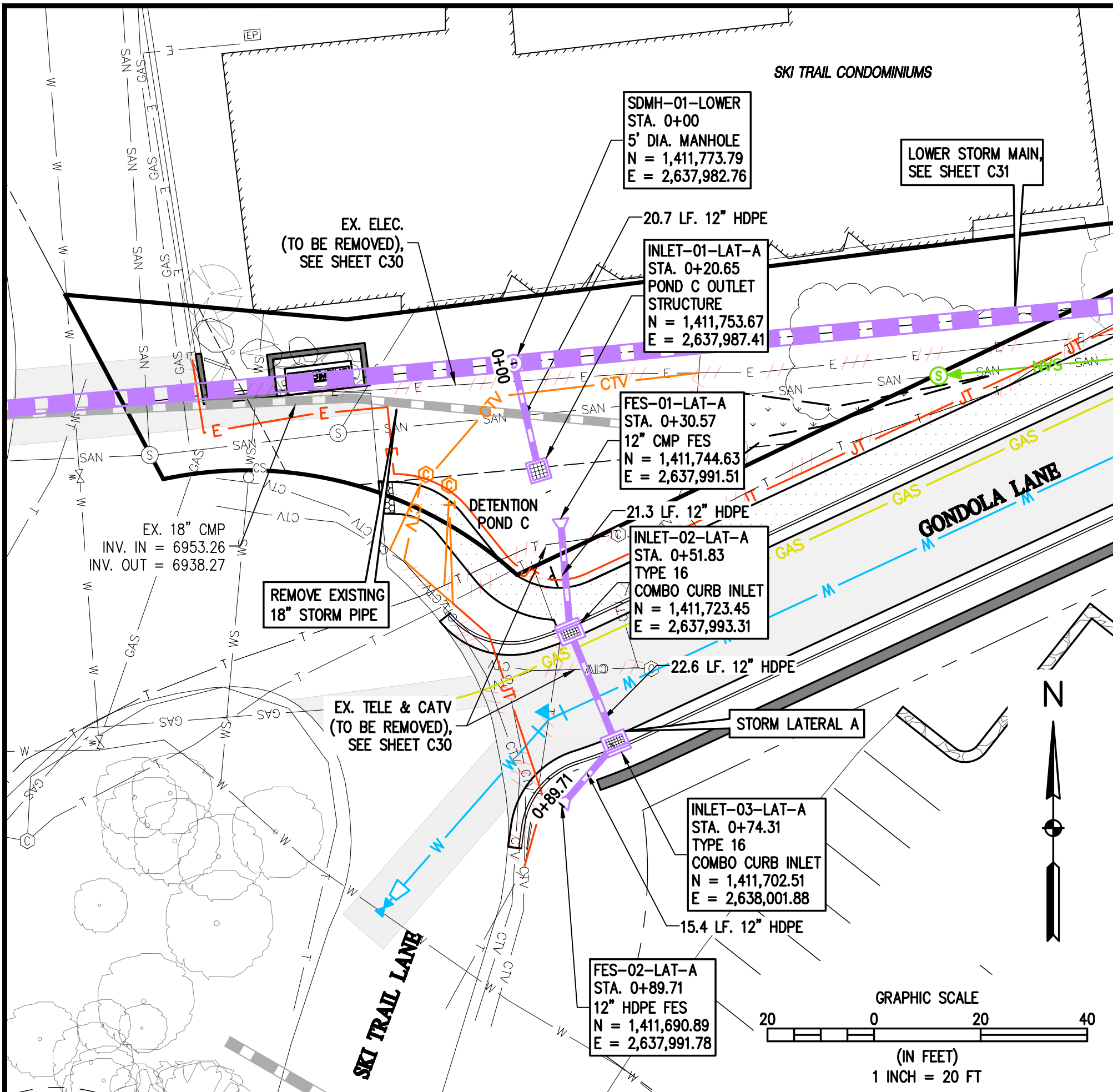
CITY OF STEAMBOAT SPRINGS
THE ASTRID
2410 SKI TRAIL LANE
STORM SEWER MAIN PLAN & PROFILE II

FOR AND ON BEHALF OF
BASELINE CORPORATION
PROFESSIONAL ENGINEER
54962
5-15-24

INITIAL SUBMITTAL 2/29/2024
DRAWING SIZE 24" X 36"
SURVEY FIRM LANDMARK, INC
SURVEY DATE 06/03/22
JOB NO. C020235
DRAWING NAME STORM SEWER MAIN PLAN & PROFILE II
SHEET 32 OF 64

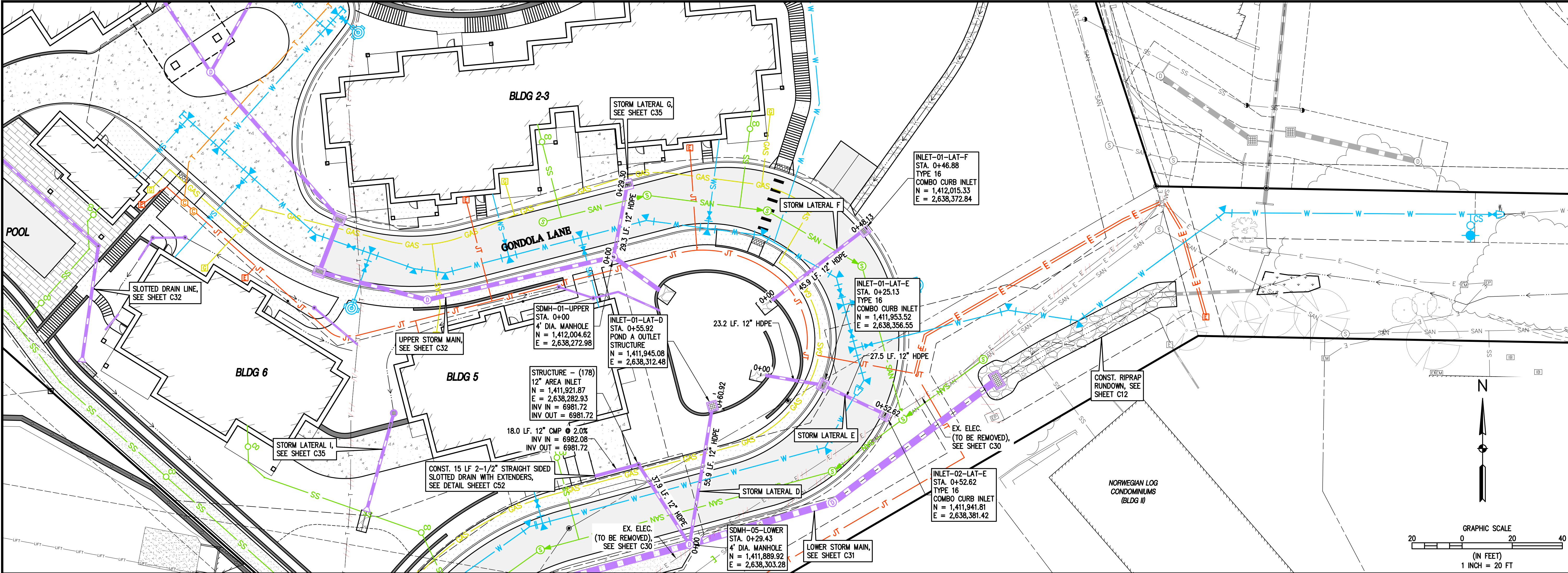
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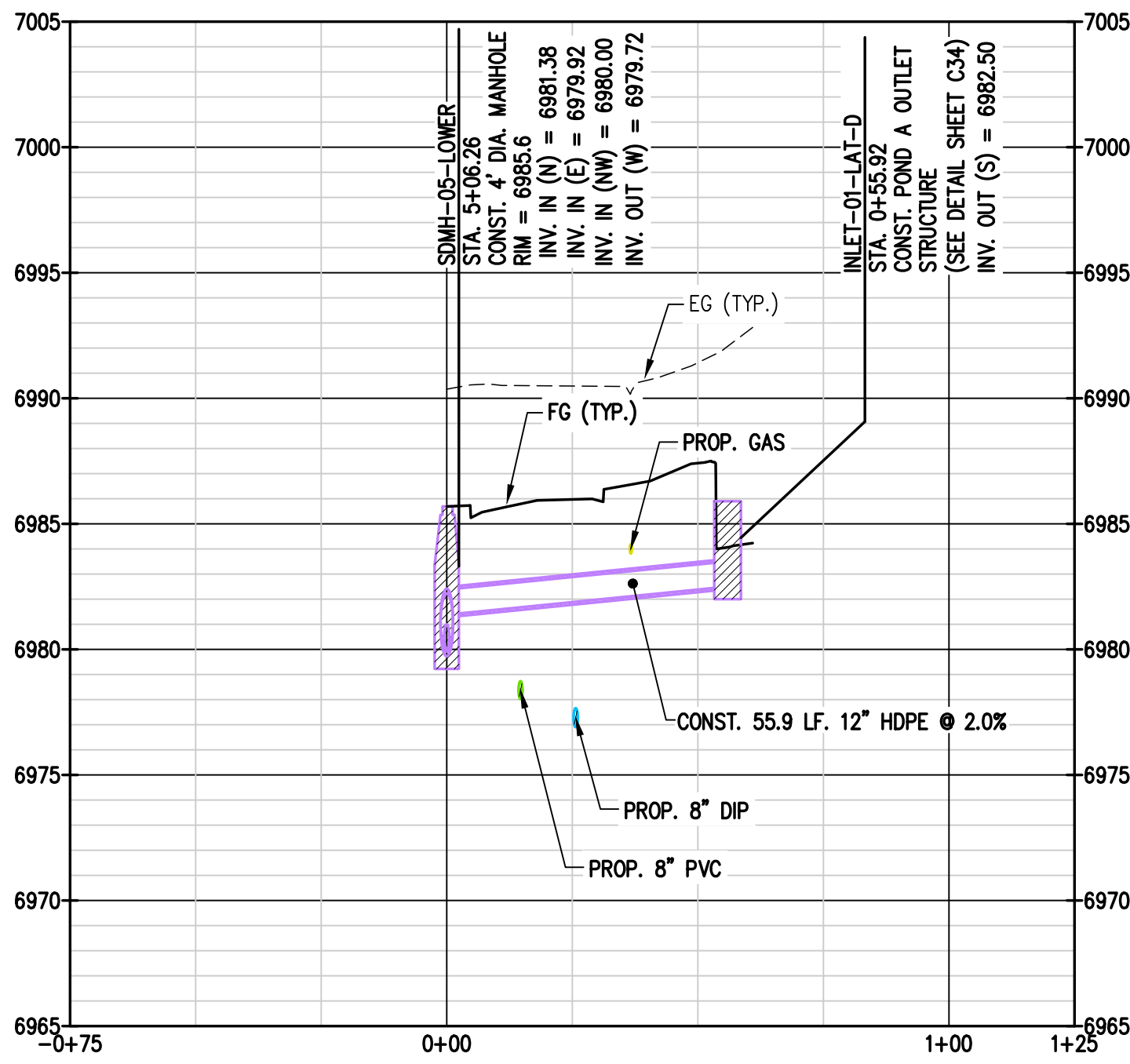


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169 HILLTOP PKWY, SUITE 204 • STEAMBOAT SPRINGS, CO 80477	P. 970.678.925 • F. 303.940.959 • www.baselinecorp.com
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DATE	2/29/2024
PREPARED BY	SMB
INITIAL SUBMITTAL FOR CITY REVIEW	5/15/2024
CITY COMMENTS	
REVISION DESCRIPTION	
INITIAL SUBMITTAL FOR CITY REVIEW	
CITY COMMENTS	
ROUTED TO	ROUTT COUNTY
STEAMBOAT ESQUIAR LP	
THE ASTRID	
2410 SKI TRAIL LANE	
STORM SEWER PLAN & PROFILE - LATERALS A & B & C	
CITY OF STEAMBOAT SPRINGS	
PREPARED UNDER THE DIRECT SUPERVISION OF	
FOR AND ON BEHALF OF	
BASELINE CORPORATION	
INITIAL SUBMITTAL	2/29/2024
DRAWING SIZE	24" X 36"
SURVEY FIRM	SURVEY DATE
LANDMARK, INC	06/03/22
JOB NO.	C020235
DRAWING NAME	STORM SEWER PLAN & PROFILE - LATERALS A & B & C
SHEET	33 OF 64
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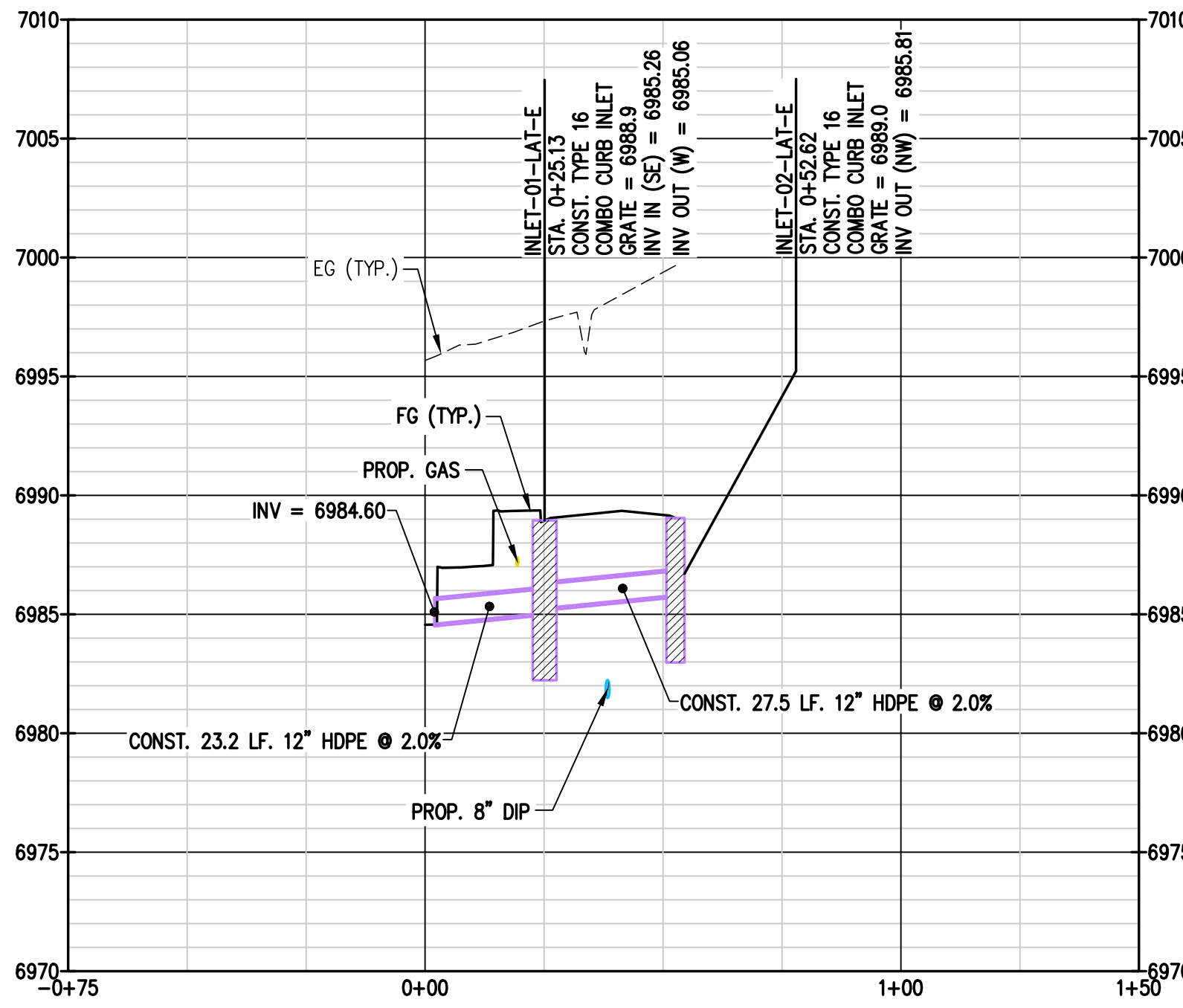
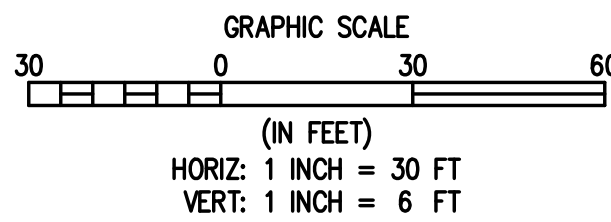


BASELINE Engineering - Planning - Surveying 169 HILLTOP PKWY, SUITE 204 • STEAMBOAT SPRINGS, CO 80477 P. 970.679.825 • F. 303.940.9559 • www.baselinecorp.com			
DESIGNED BY	SMB	DRAWN BY	TJM
CHECKED BY	MRB		
DATE	2/29/2024	DATE	5/15/2024
PREPARED BY	SMB	PREPARED BY	SMB
REVISION DESCRIPTION	INITIAL SUBMITTAL FOR CITY REVIEW	REVISION DESCRIPTION	CITY COMMENTS



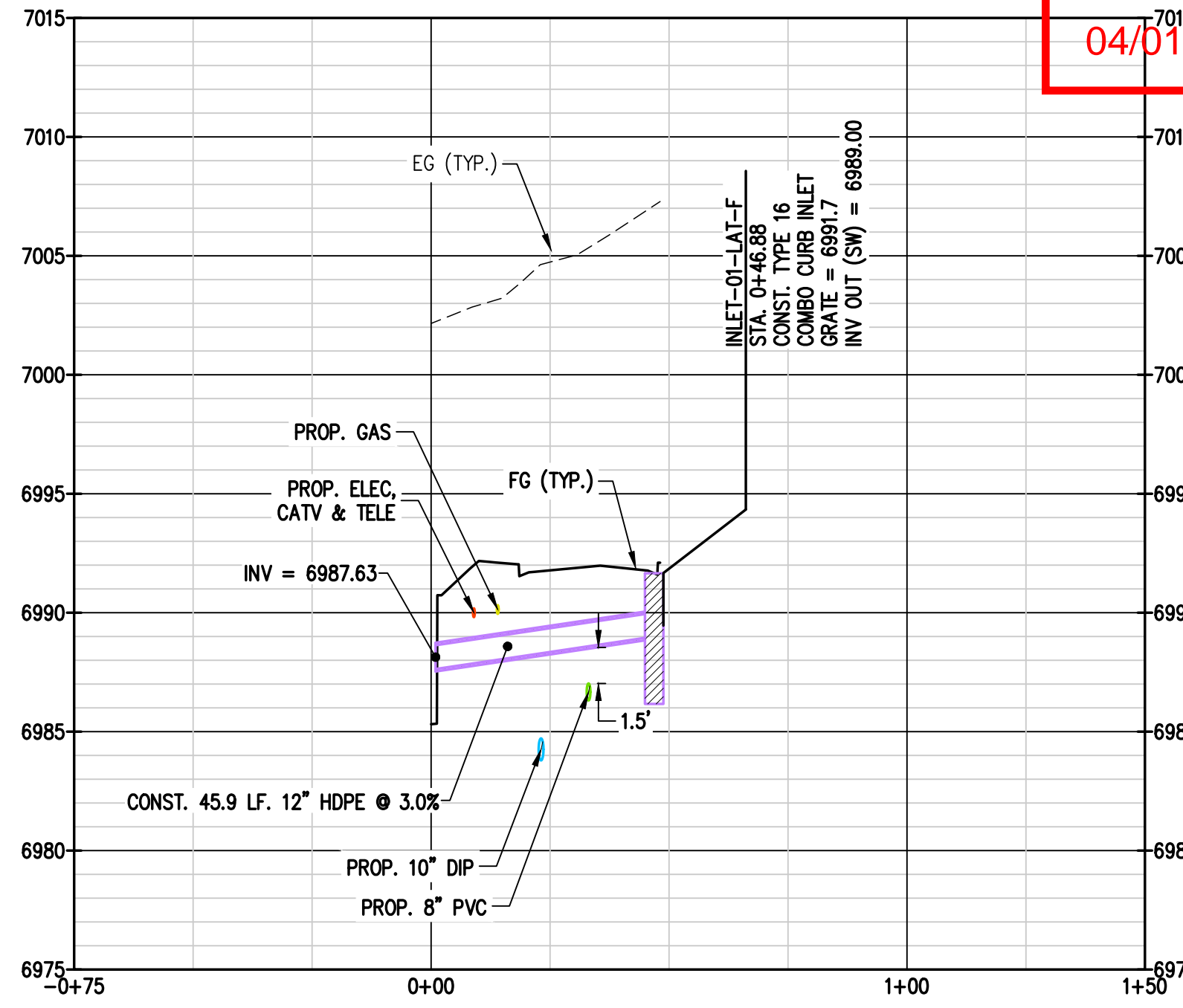
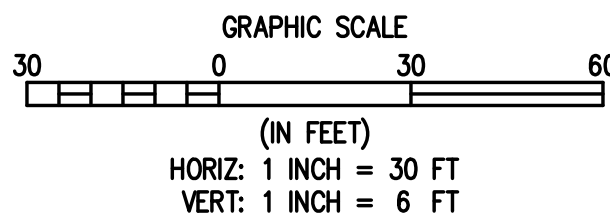
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C34 C34

STORM LATERAL 'D'



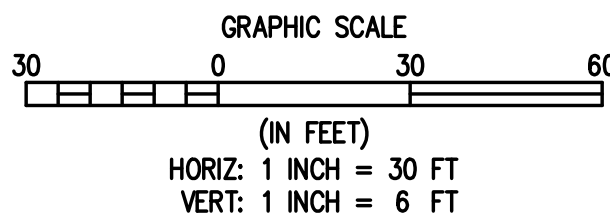
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STORM LATERAL 'E'



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C34 C34

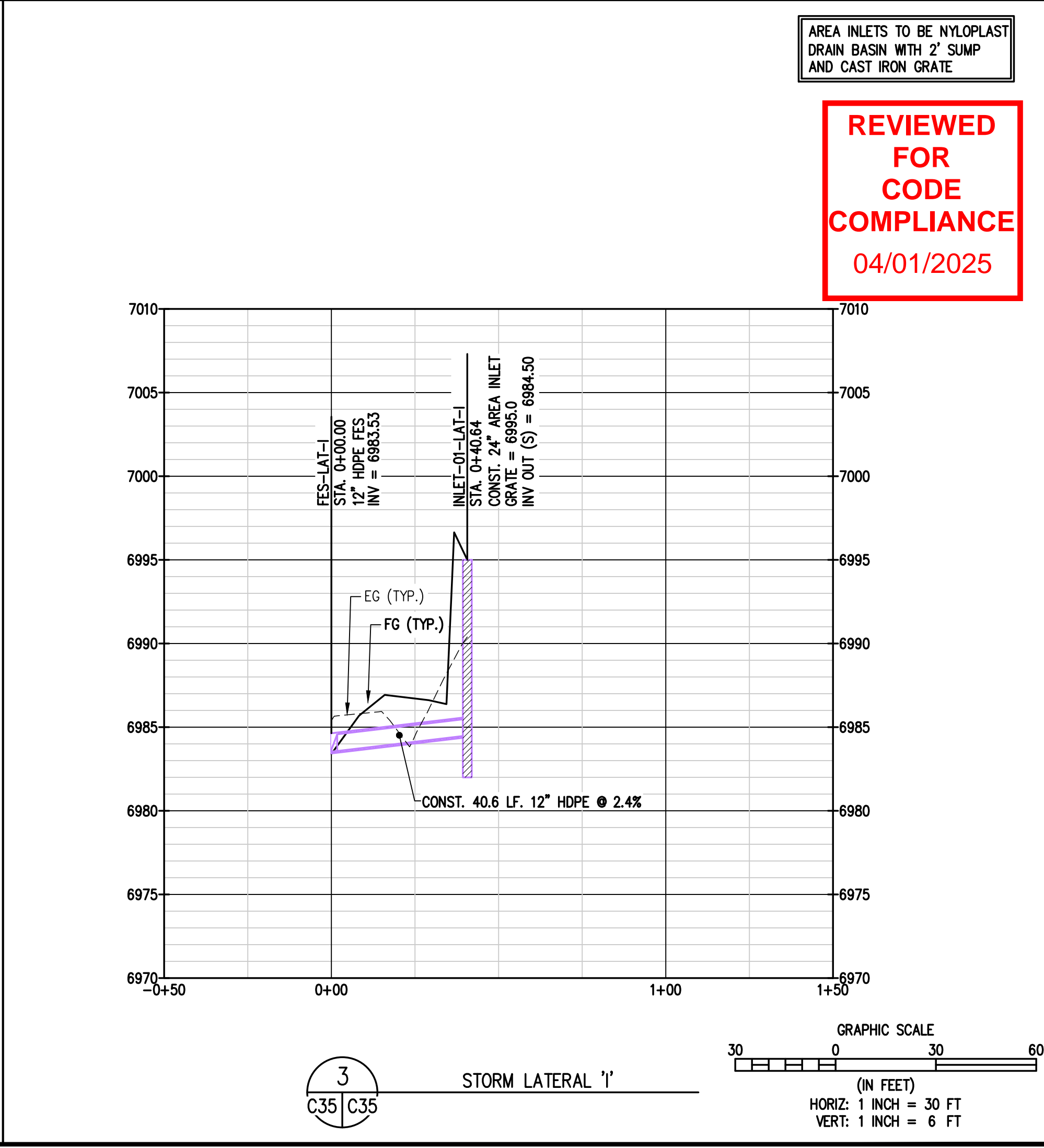
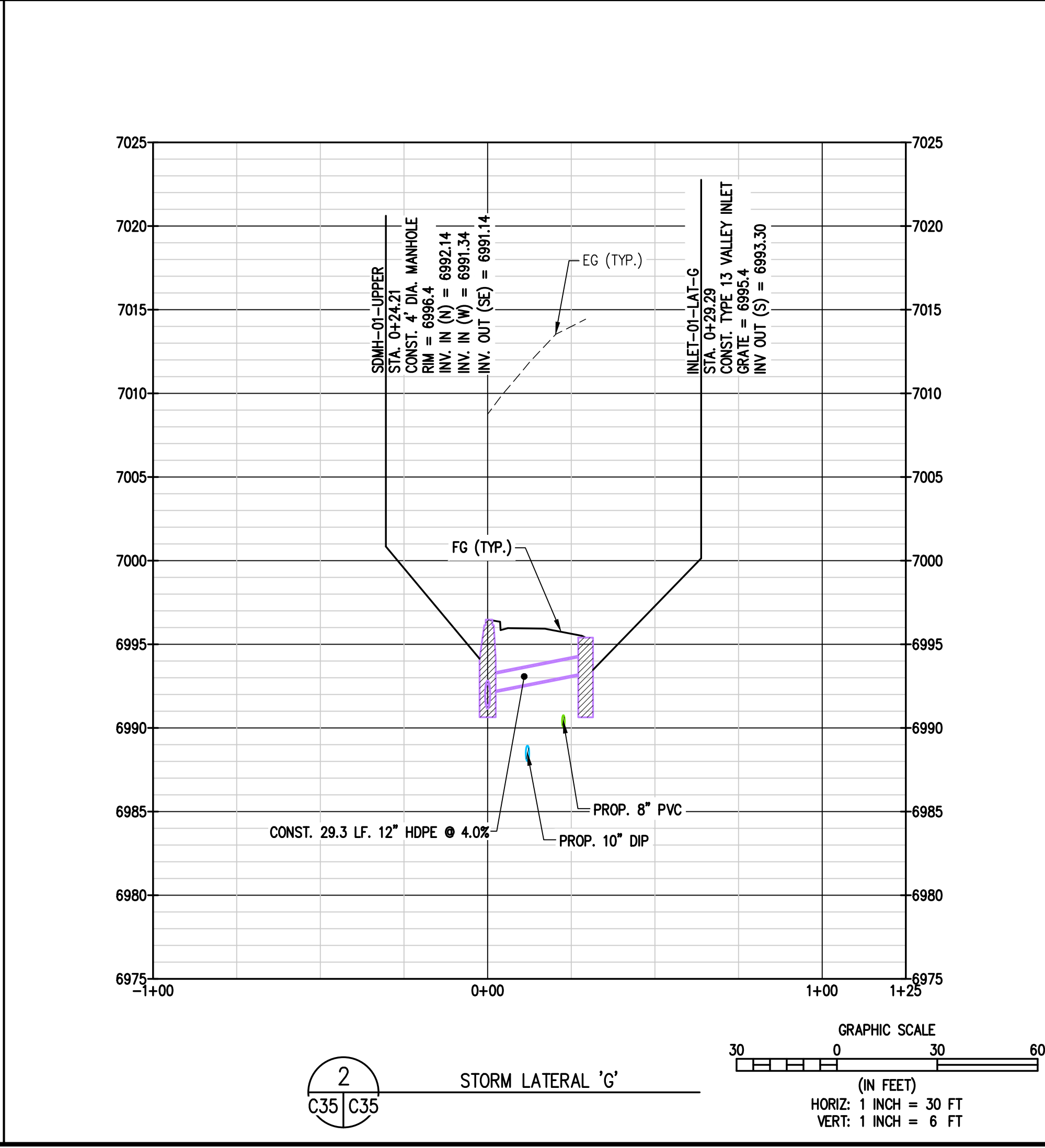
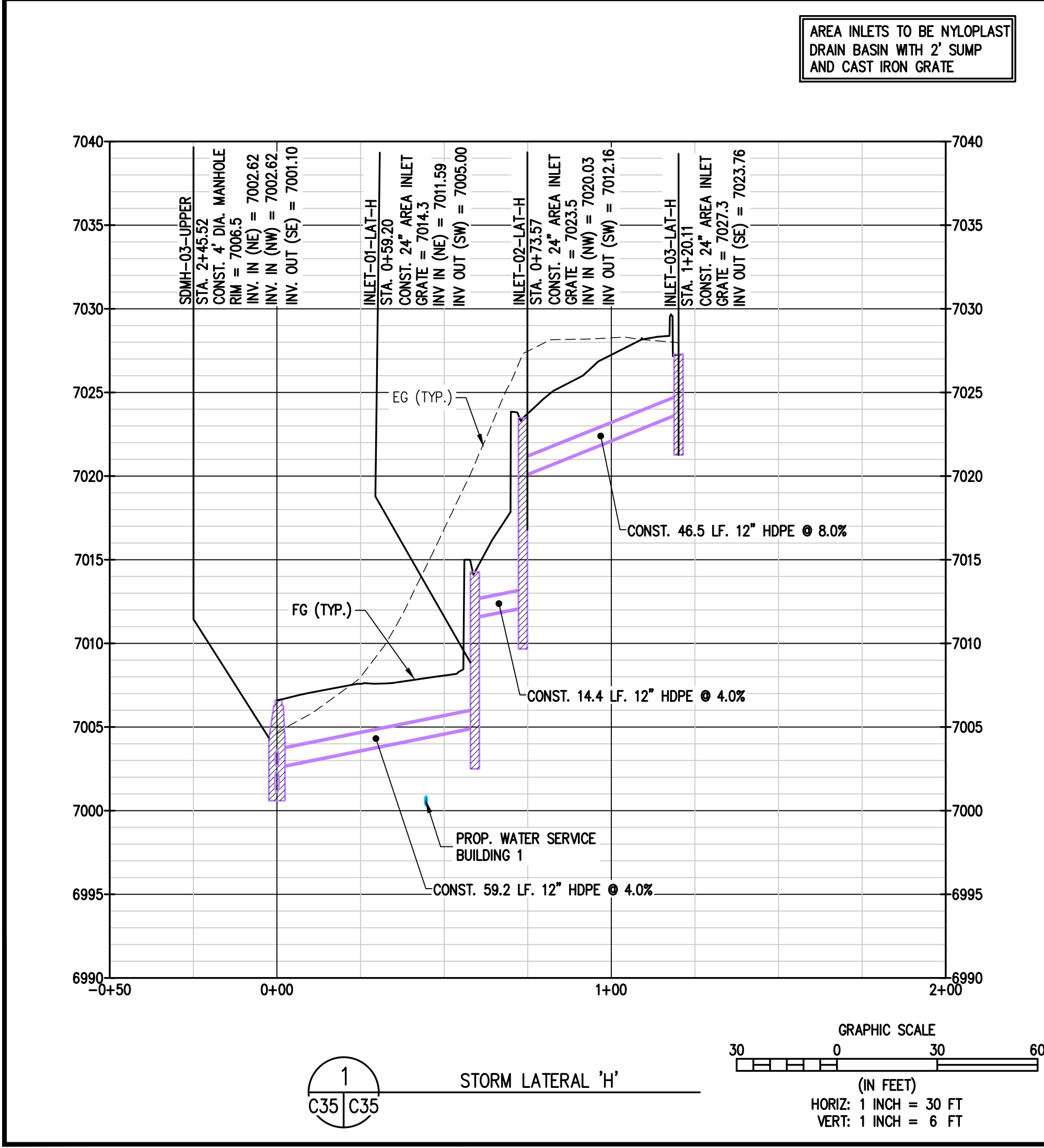
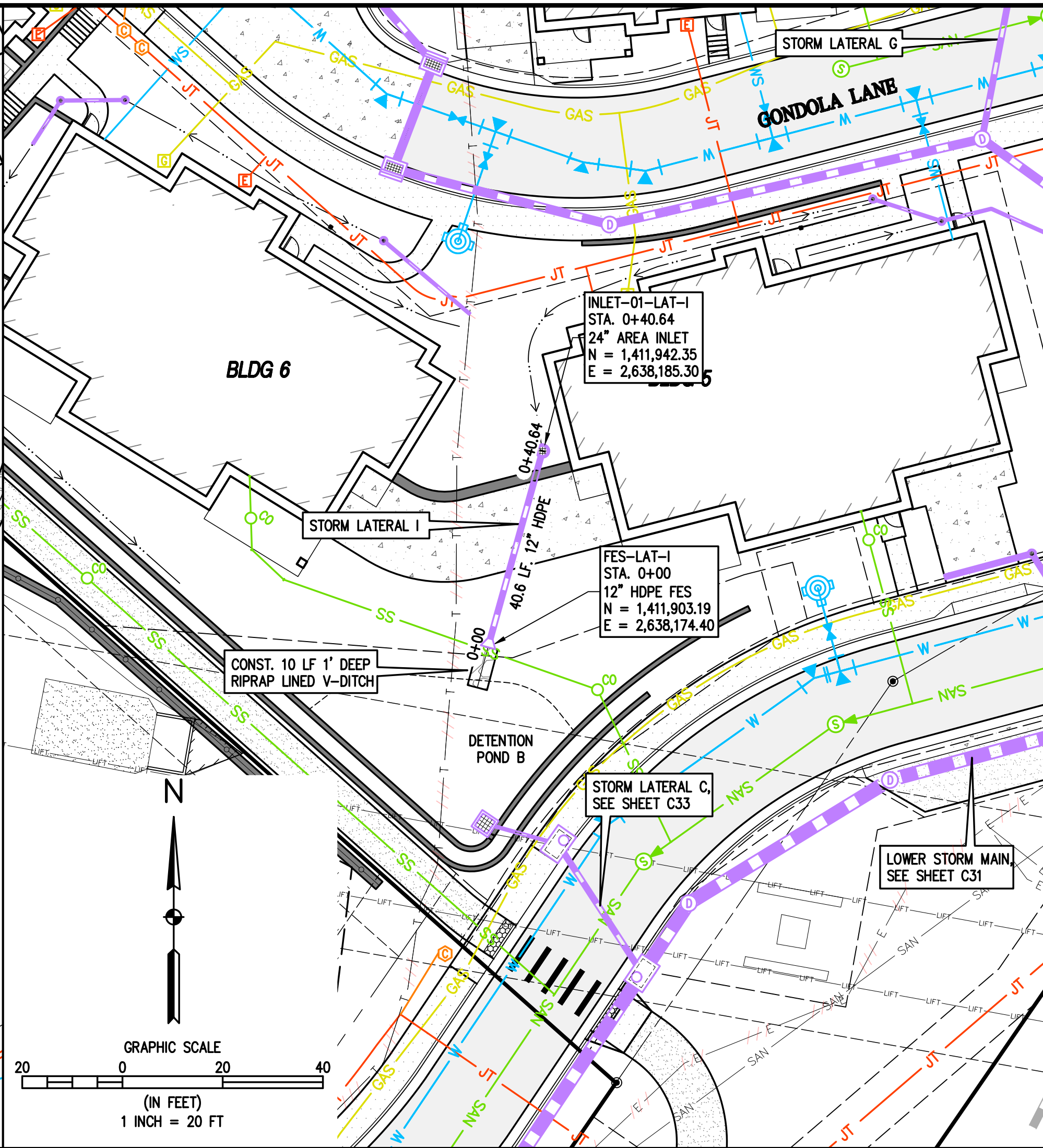
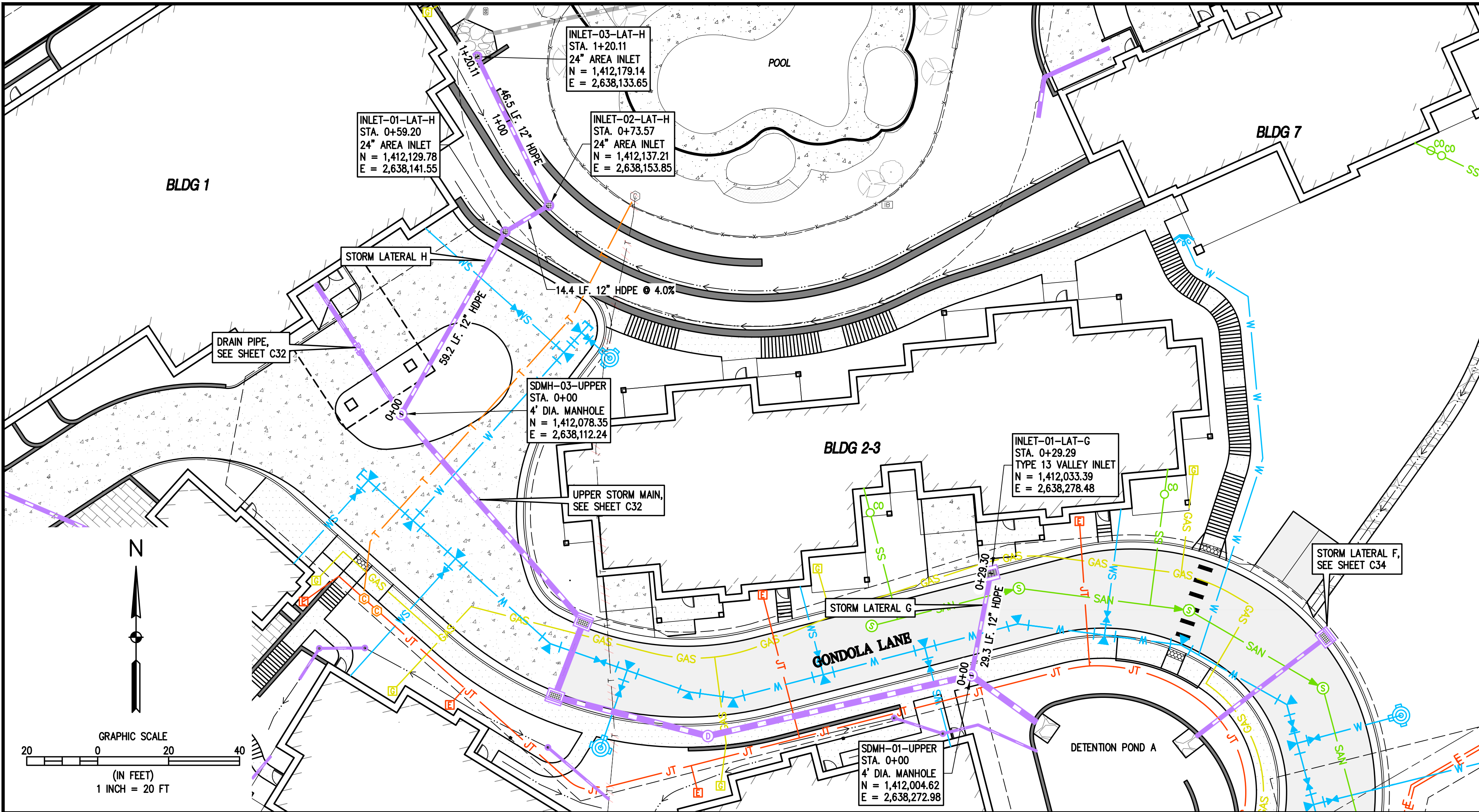
STORM LATERAL 'F'



REVIEWED
FOR
CODE
COMPLIANCE
04/01/2025

CITY OF STEAMBOAT SPRINGS		ROUTE COUNTY
STEAMBOAT ESQUIAR LP		
THE ASTRID 2410 SKI TRAIL LANE		
STORM SEWER PLAN & PROFILE - LATERALS D & E & F		
FOR AND ON BEHALF OF BASELINE CORPORATION		
INITIAL SUBMITTAL	2/29/2024	
DRAWING SIZE	24" X 36"	
SURVEY FIRM	LANDMARK, INC	SURVEY DATE 06/03/22
JOB NO.	C020235	
DRAWING NAME	STORM SEWER PLAN & PROFILE - LATERALS D & E & F	
SHEET	34 OF 64	
C34		

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DESIGNED BY	DATE	PREPARED BY	DATE	REVISION	DESCRIPTION
SMB	2/29/2024	SMB	2/29/2024	INITIAL	SUBMITTAL FOR CITY REVIEW
TJM	5/15/2024	SMB	5/15/2024	CITY COMMENTS	
MRB					

ROUTE COUNTY

STEAMBOAT ESQUIAR LP

THE ASTRID
2410 SKI TRAIL LANE
STORM SEWER PLAN & PROFILE - LATERALS G & H & I

CITY OF STEAMBOAT SPRINGS

PREPARED UNDER THE DIRECT SUPERVISION OF

FOR AND ON BEHALF OF
BASELINE CORPORATION

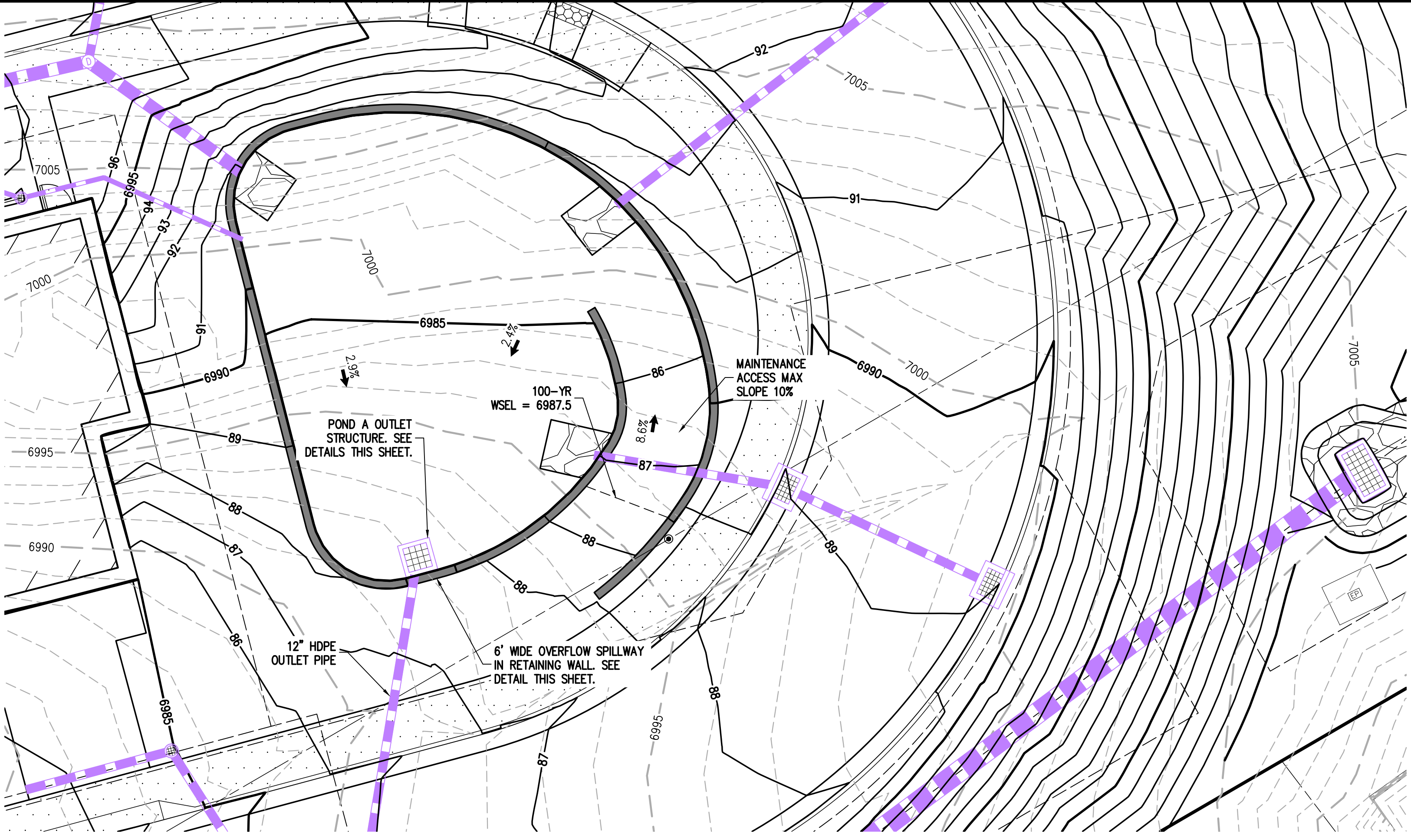
PROFESSIONAL ENGINEER
34962
5-15-24

FOR AND ON BEHALF OF
BASELINE CORPORATION

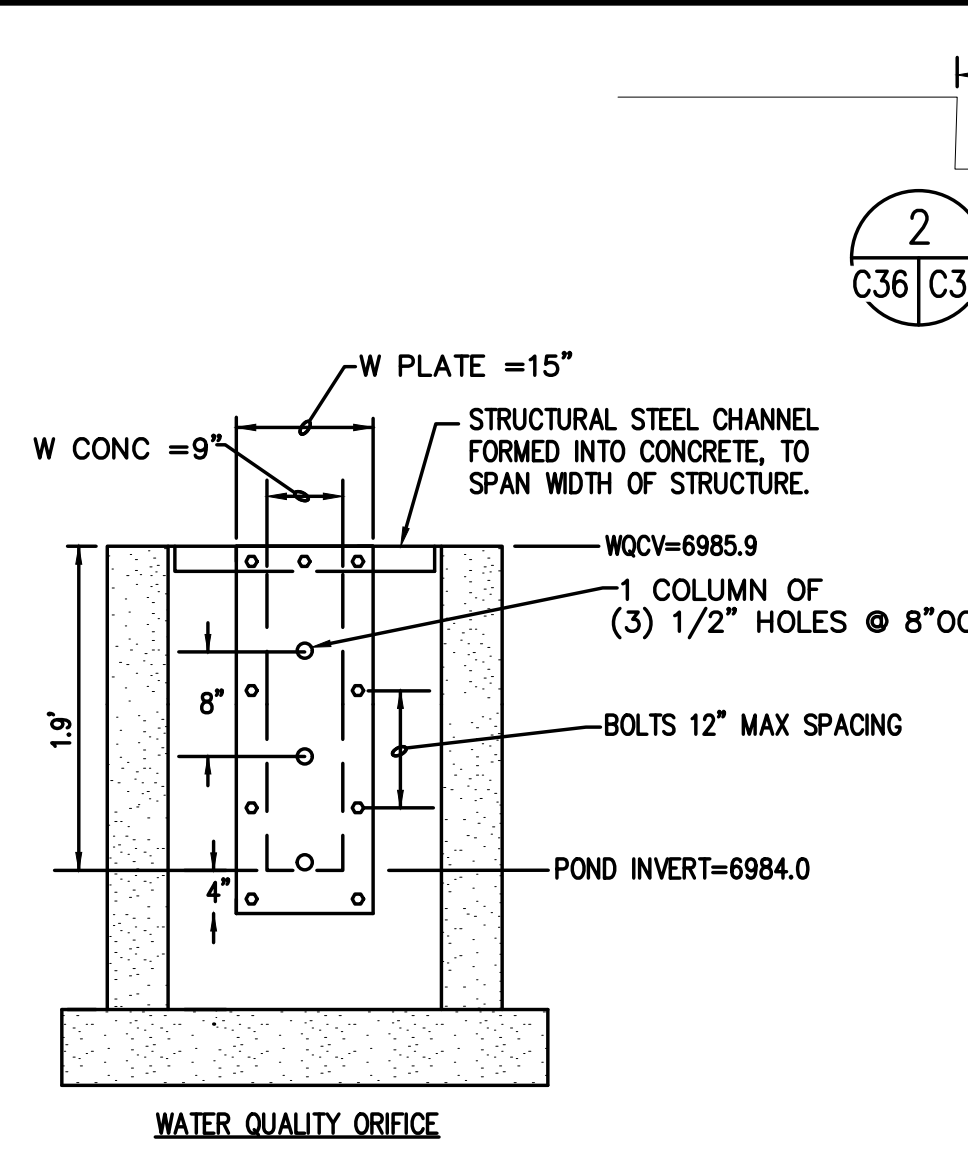
INITIAL SUBMITTAL 2/29/2024
DRAWING SIZE 24" X 36"
SURVEY FIRM LANDMARK, INC
SURVEY DATE 06/03/22
JOB NO. C020235
DRAWING NAME STORM SEWER PLAN & PROFILE - LATERALS G & H & I
SHEET 35 OF 64

C35

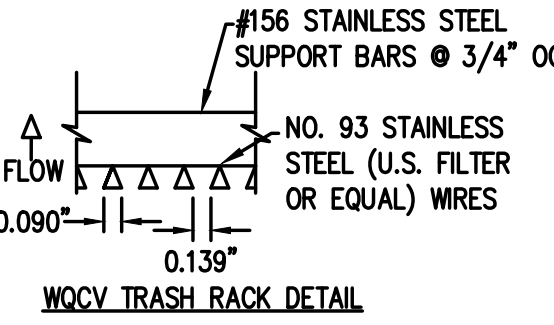
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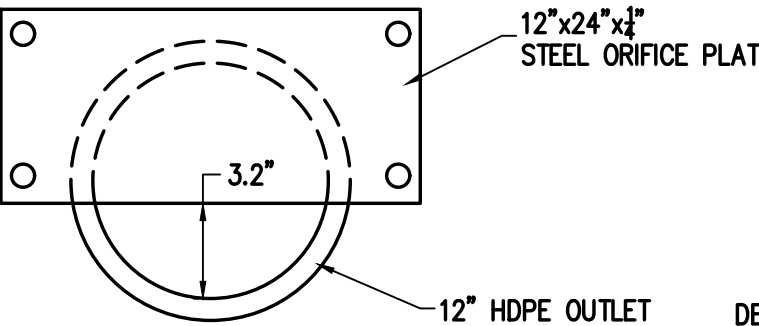
1 POND A EXTENDED DETENTION BASIN PLAN
C36 | C36



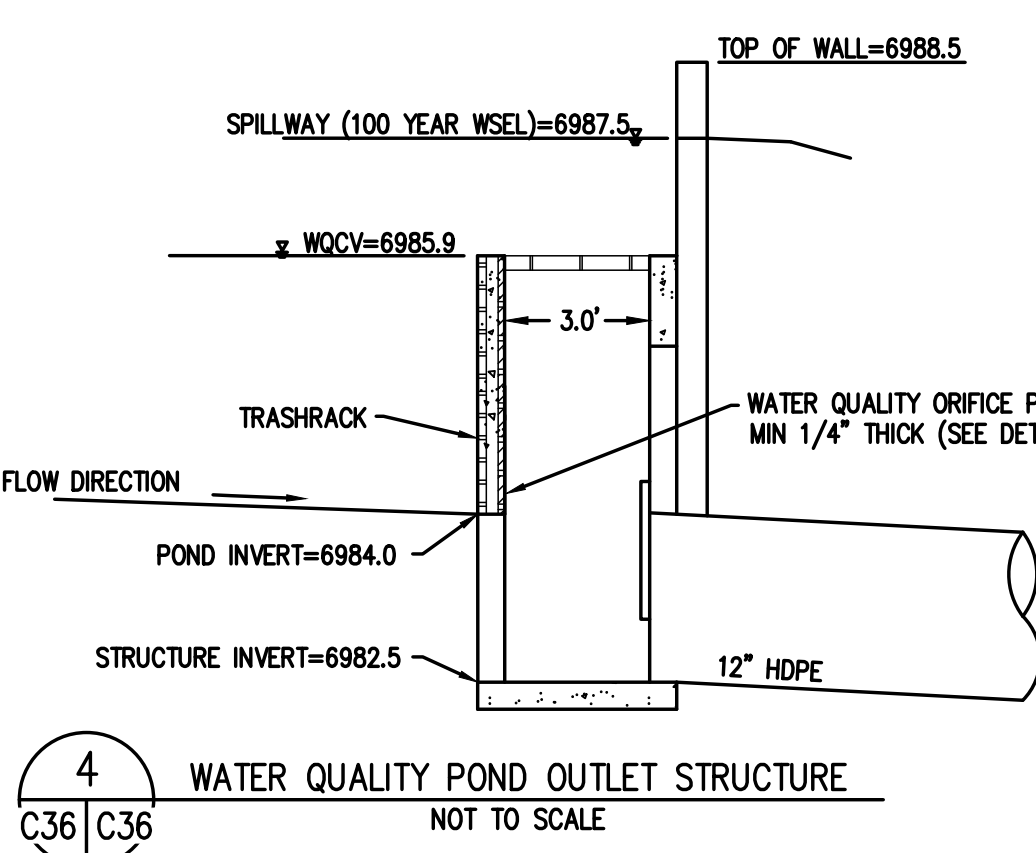
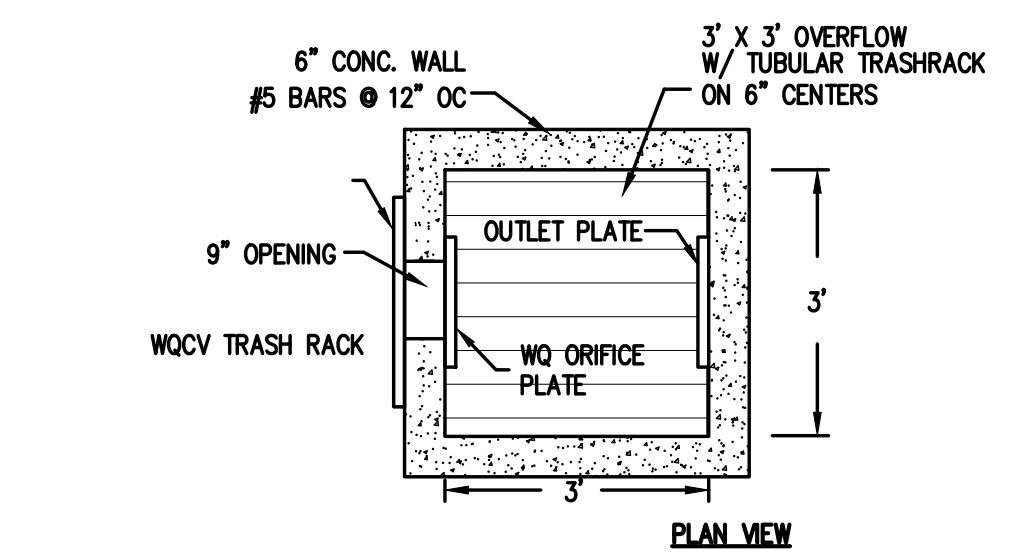
2 EMERGENCY SPILLWAY DETAIL
C36 | C36 NOT TO SCALE



WQCV TRASH RACK DETAIL

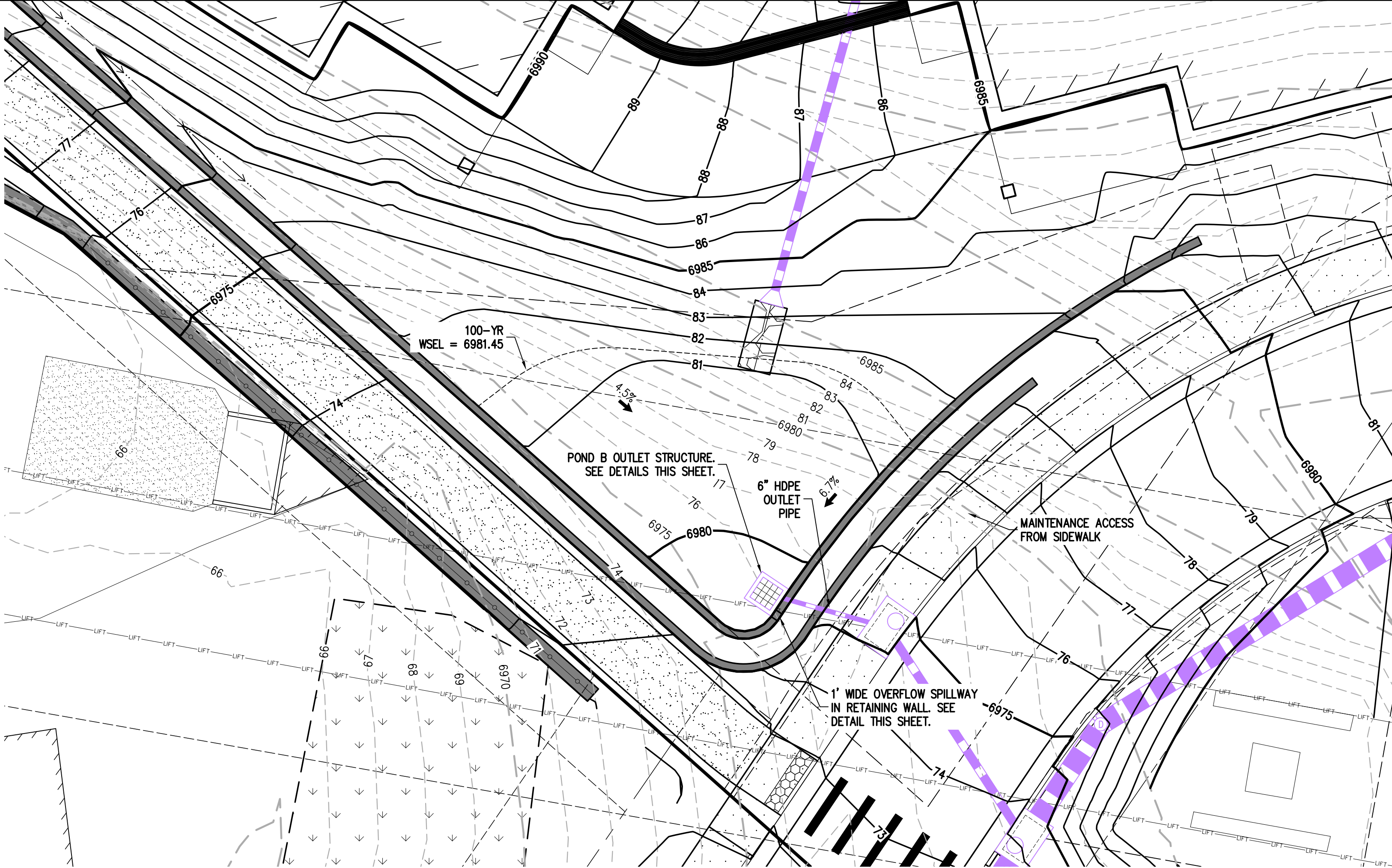


3 100-YEAR ORIFICE PLATE
C36 | C36 NOT TO SCALE

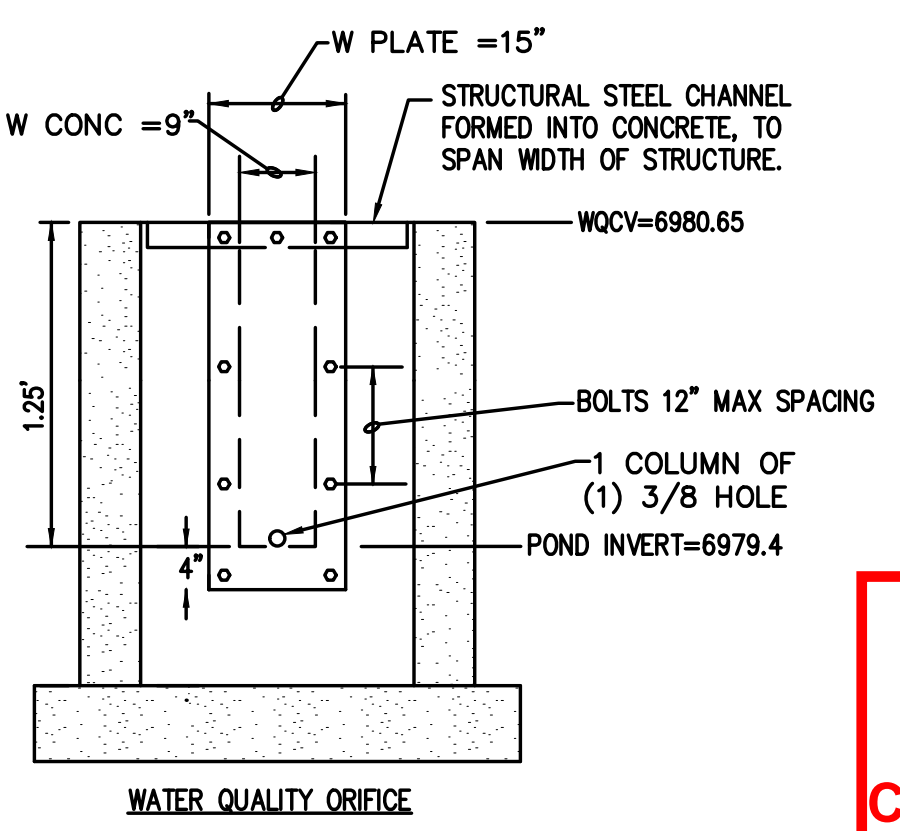


4 WATER QUALITY POND OUTLET STRUCTURE
C36 | C36 NOT TO SCALE

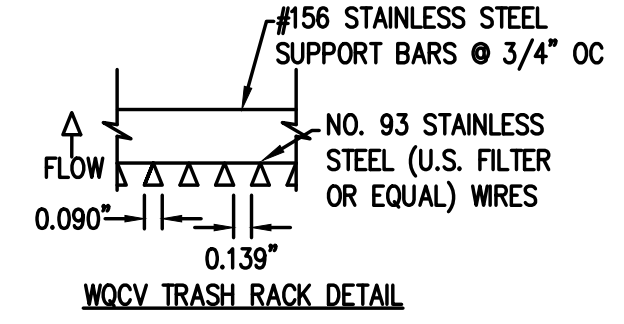
DETAIL NOTES:
1. OVERFLOW TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. OVERFLOW TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE DIP GALVANIZED AND MY BE HOT POWDER COATED AFTER GALVANIZING.
3. WATER QUALITY CAPTURE VOLUME WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.



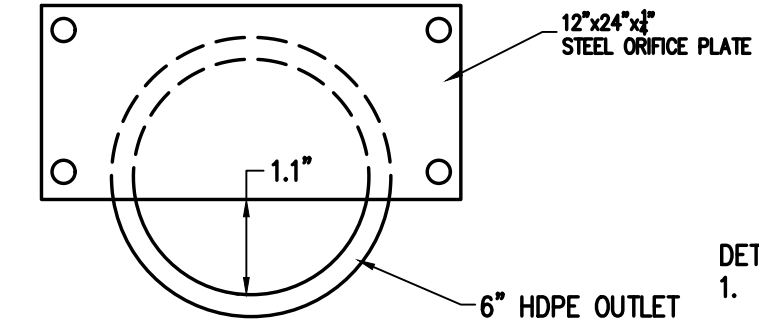
5 POND B EXTENDED DETENTION BASIN PLAN
C36 | C36



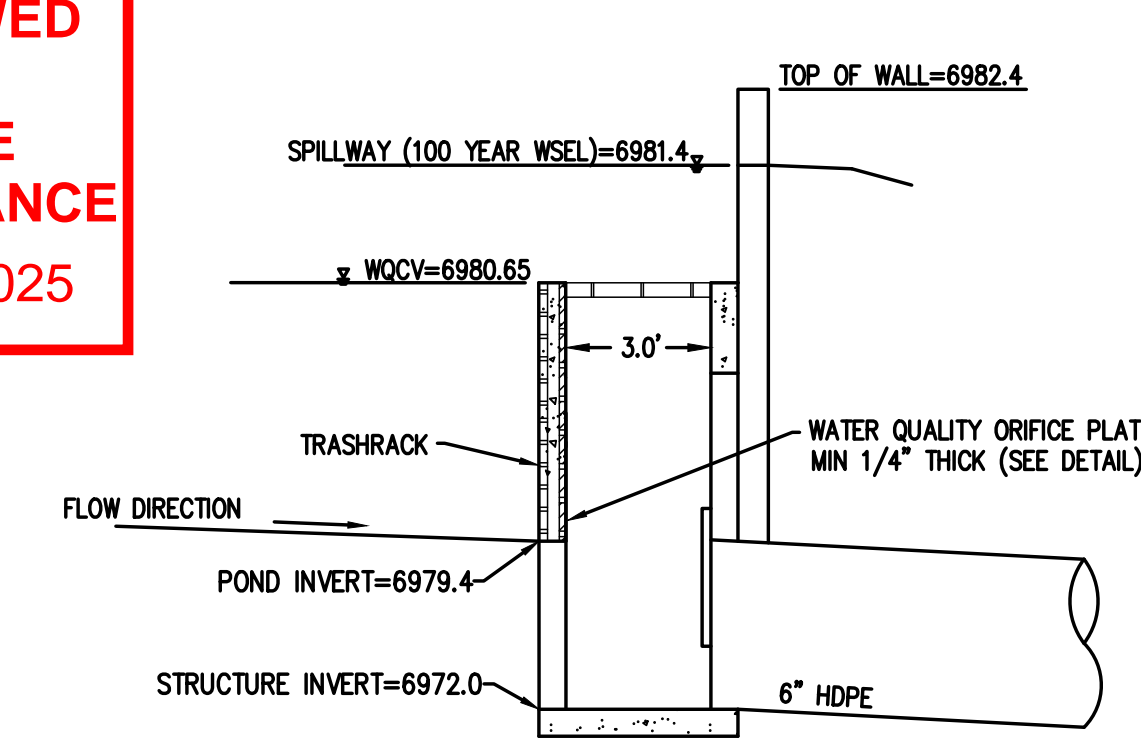
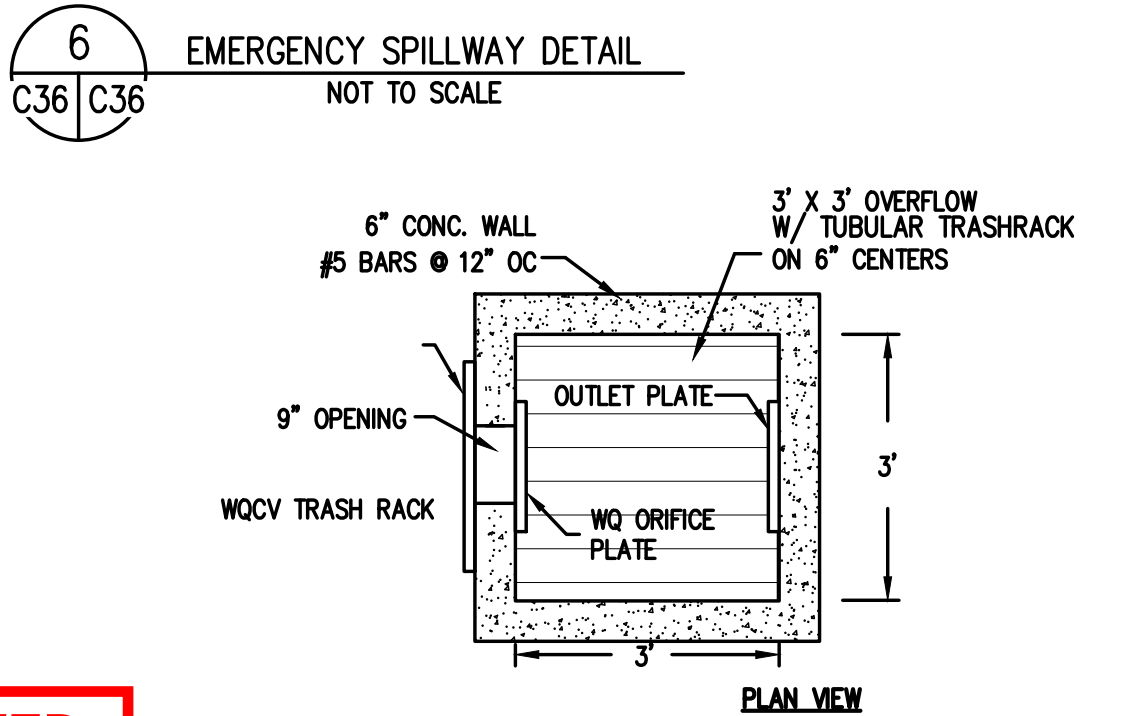
WATER QUALITY ORIFICE



WQCV TRASH RACK DETAIL



7 100-YEAR ORIFICE PLATE
C36 | C36 NOT TO SCALE



8 WATER QUALITY POND OUTLET STRUCTURE
C36 | C36 NOT TO SCALE

DETAIL NOTES:
1. OVERFLOW TRASH RACKS SHALL BE MOUNTED USING STAINLESS STEEL HARDWARE AND PROVIDED WITH HINGED AND LOCKABLE OR BOLTABLE ACCESS PANELS.
2. OVERFLOW TRASH RACKS SHALL BE STAINLESS STEEL, ALUMINUM, OR STEEL. STEEL TRASH RACKS SHALL BE DIP GALVANIZED AND MY BE HOT POWDER COATED AFTER GALVANIZING.
3. WATER QUALITY CAPTURE VOLUME WELL-SCREEN TRASH RACKS SHALL BE STAINLESS STEEL AND SHALL BE ATTACHED BY INTERMITTENT WELDS ALONG THE EDGE OF THE MOUNTING FRAME.

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DESIGNED BY
SMB

DRAWN BY
TJM

CHECKED BY
MRB

REVISION DESCRIPTION

DATE

PREPARED BY

INITIAL SUBMITTAL FOR CITY REVIEW

CITY COMMENTS

ROUTT COUNTY

THE ASTRID

2410 SKI TRAIL LANE

STORMWATER POND & OUTLET DETAILS PONDS A & B

CITY OF STEAMBOAT SPRINGS

FOR AND ON BEHALF OF
BASELINE CORPORATION

PROFESSIONAL ENGINEER

34952

5-15-24

FOR THE DIRECT SUPERVISION OF

INITIAL SUBMITTAL

2/29/2024

DRAWING SIZE

24" X 36"

SURVEY FIRM

LANDMARK, INC

SURVEY DATE

06/03/22

JOB NO.

C020235

DRAWING NAME

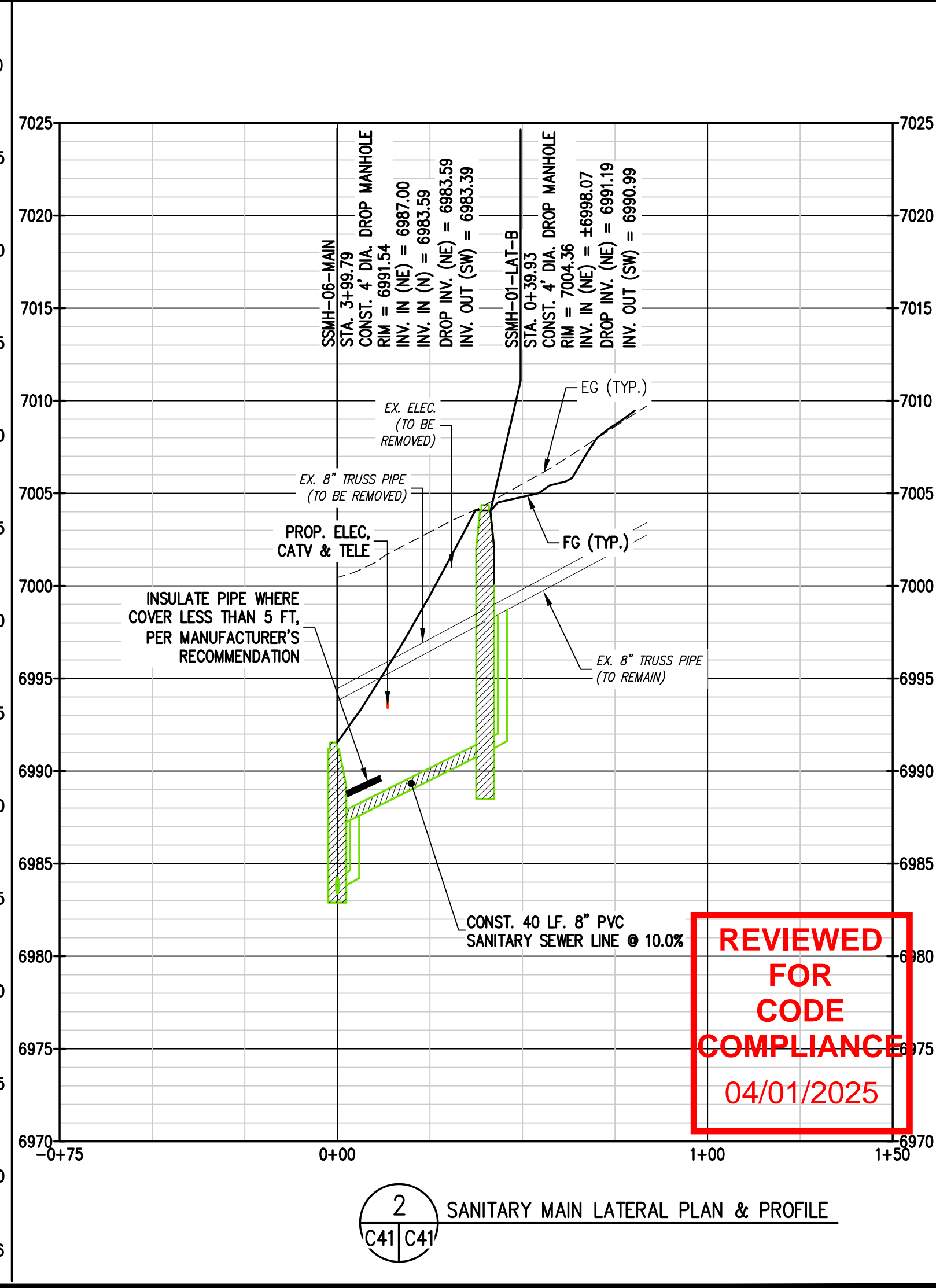
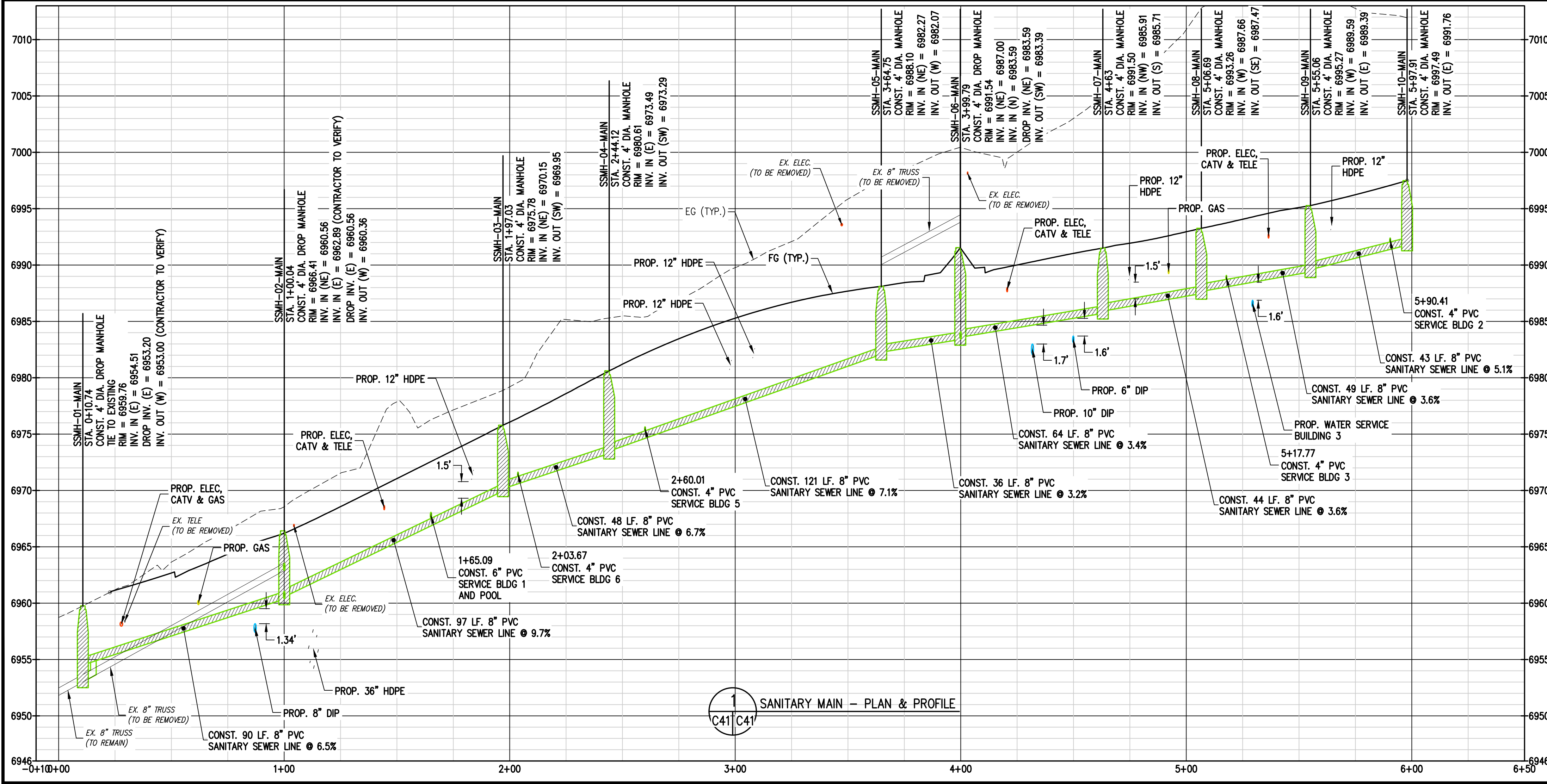
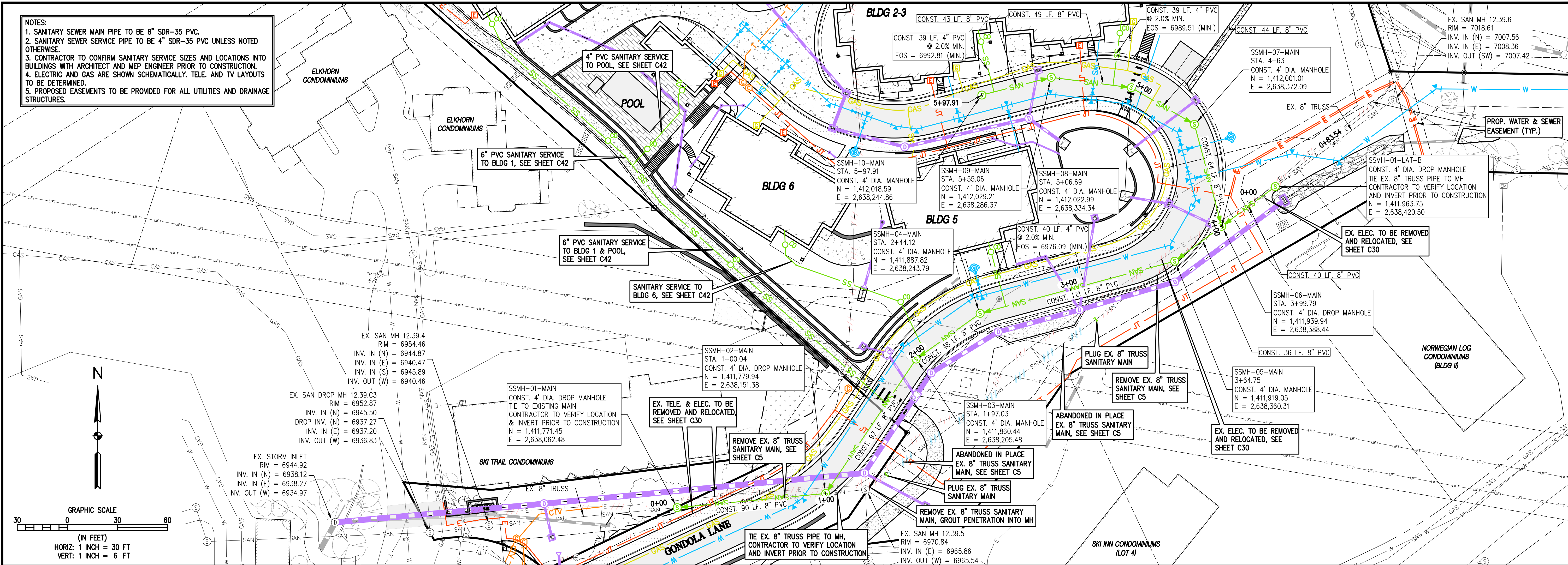
STORMWATER POND & OUTLET DETAILS PONDS A & B

SHEET

36 OF 64

C36

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DRAWN BY	TJM	CHECKED BY	MRB
PREPARED BY	SMB	DATE	2/29/2024
REVISION	DESCRIPTION	DATE	
1	INITIAL SUBMITTAL FOR CITY REVIEW	2/29/2024	
2	CITY COMMENTS	5/15/2024	

STEAMBOAT ESQUIAR LP

THE ASTRID
2410 SKI TRAIL LANE
SANITARY MAIN - PLAN & PROFILE

CITY OF STEAMBOAT SPRINGS
ROUTT COUNTY

FOR AND ON BEHALF OF
BASELINE CORPORATION

PREPARED UNDER THE DIRECT
SUPERVISION OF

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC. SURVEY DATE 06/03/22

JOB NO. C020235

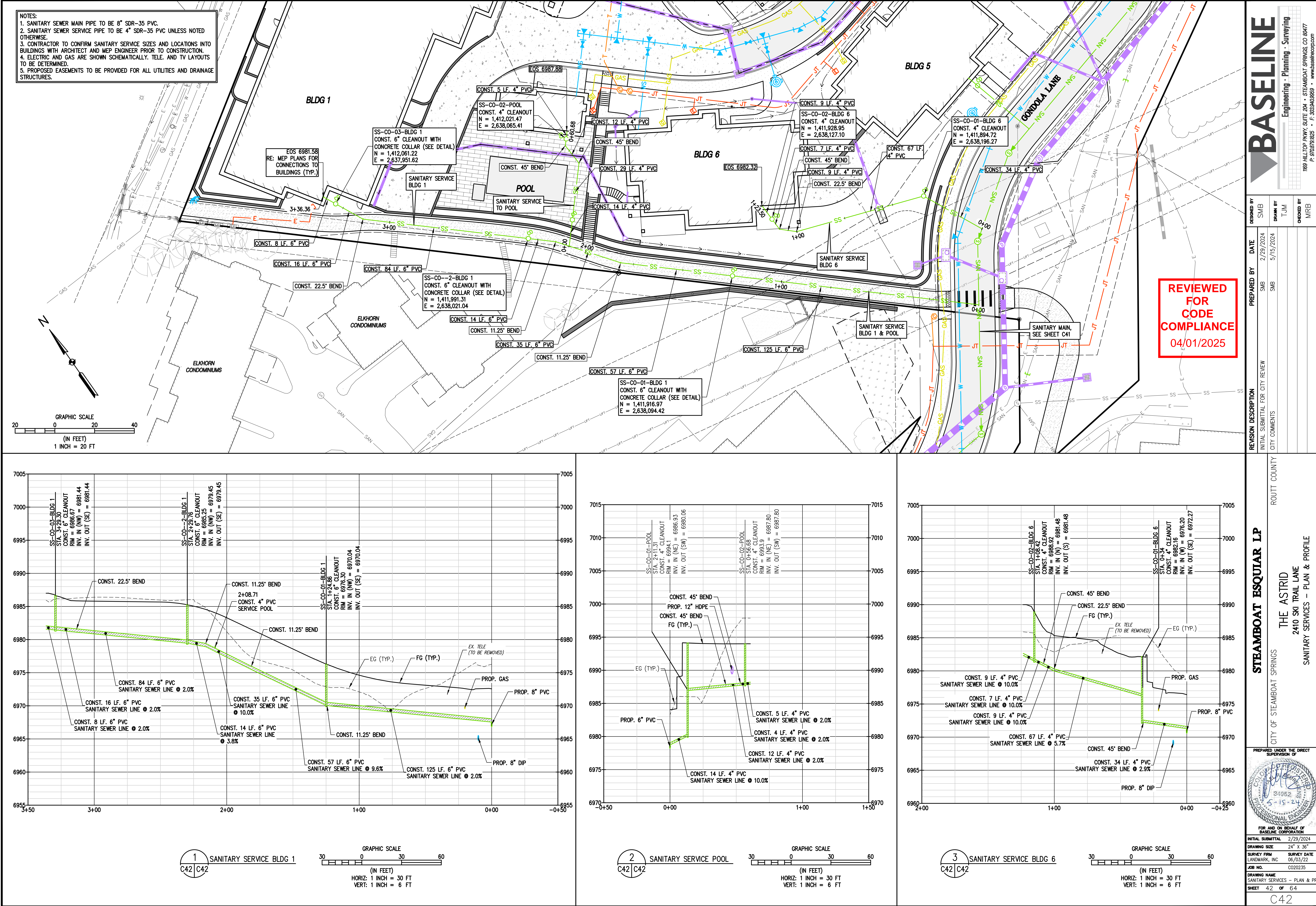
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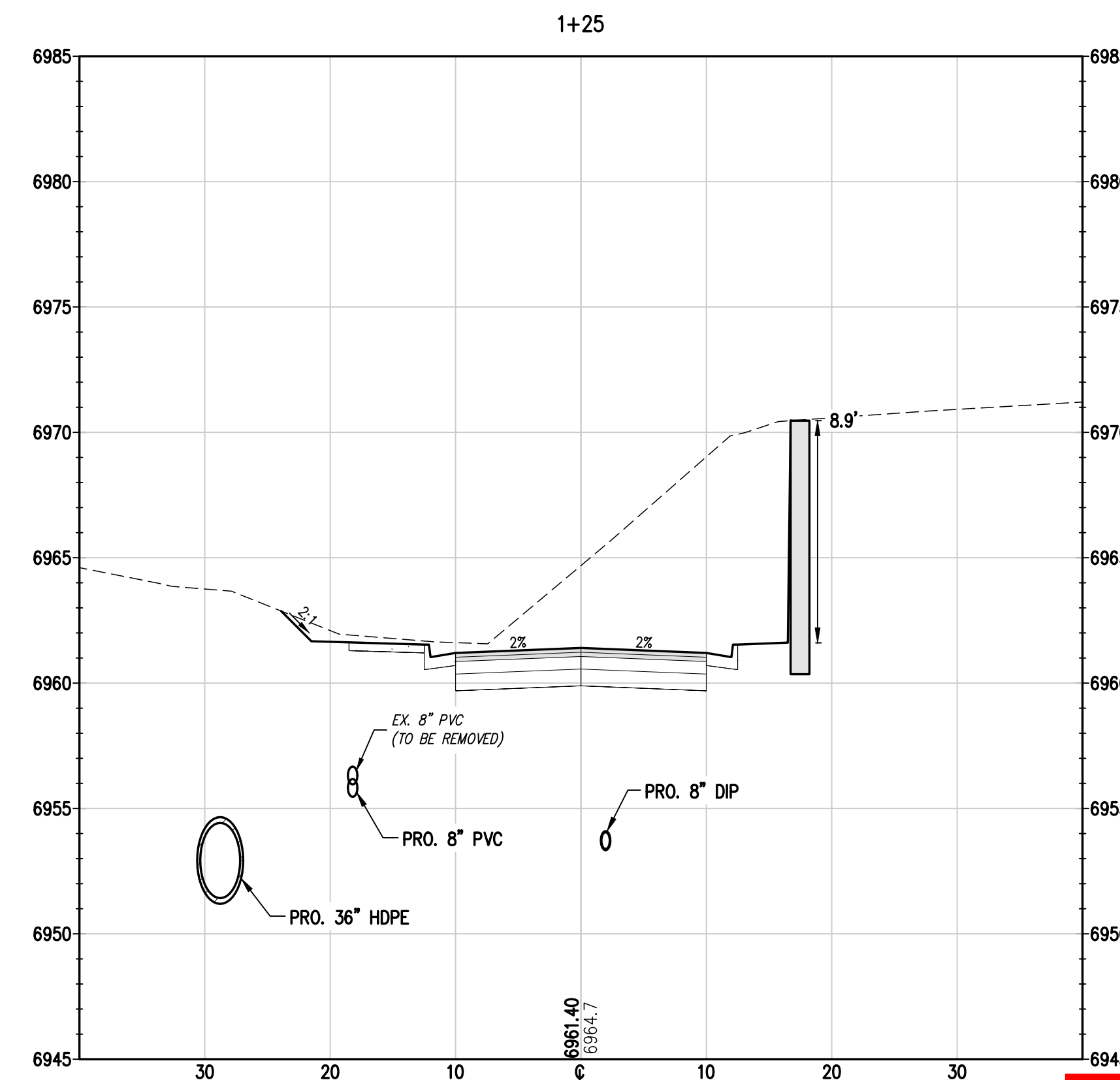
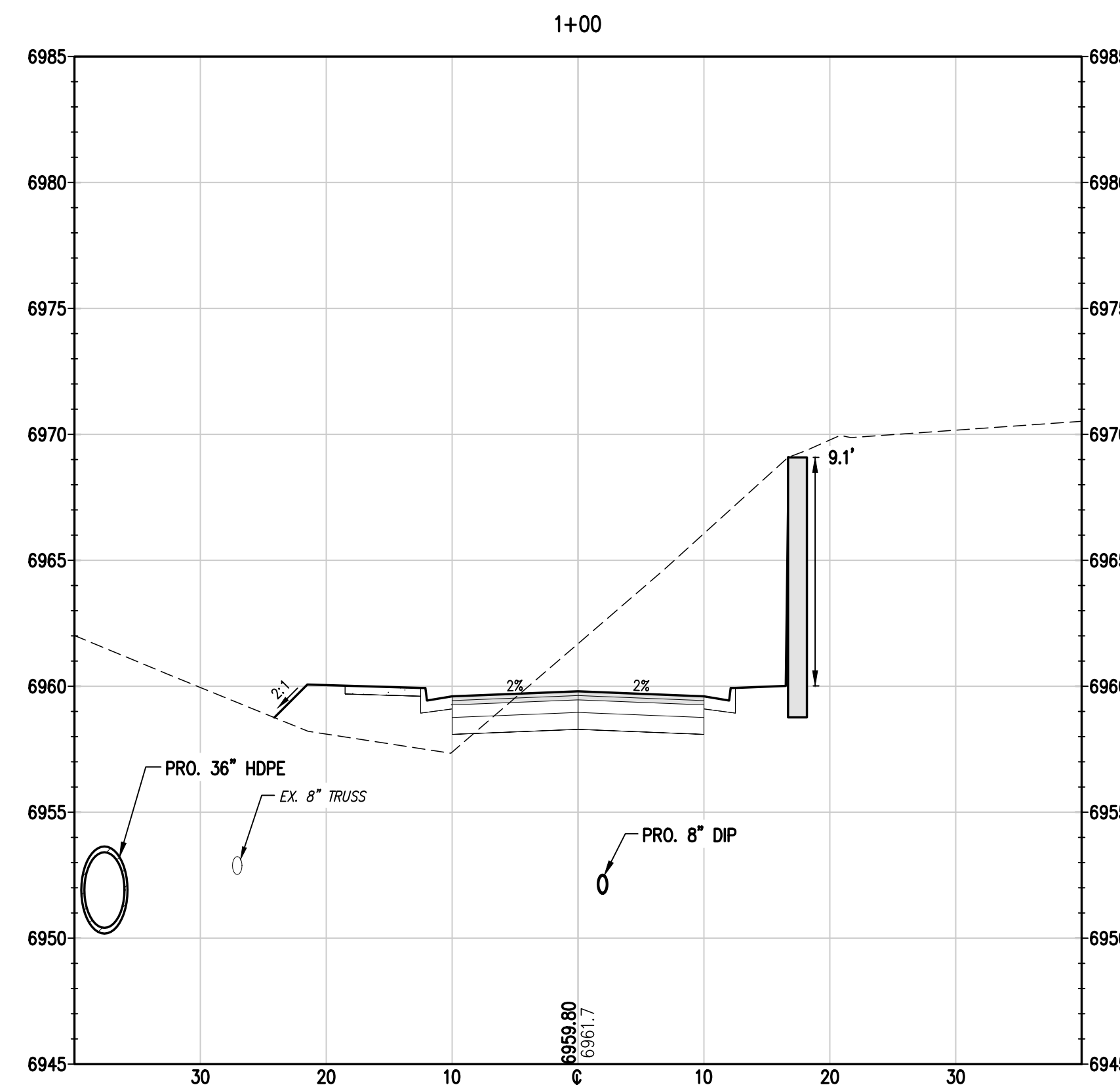
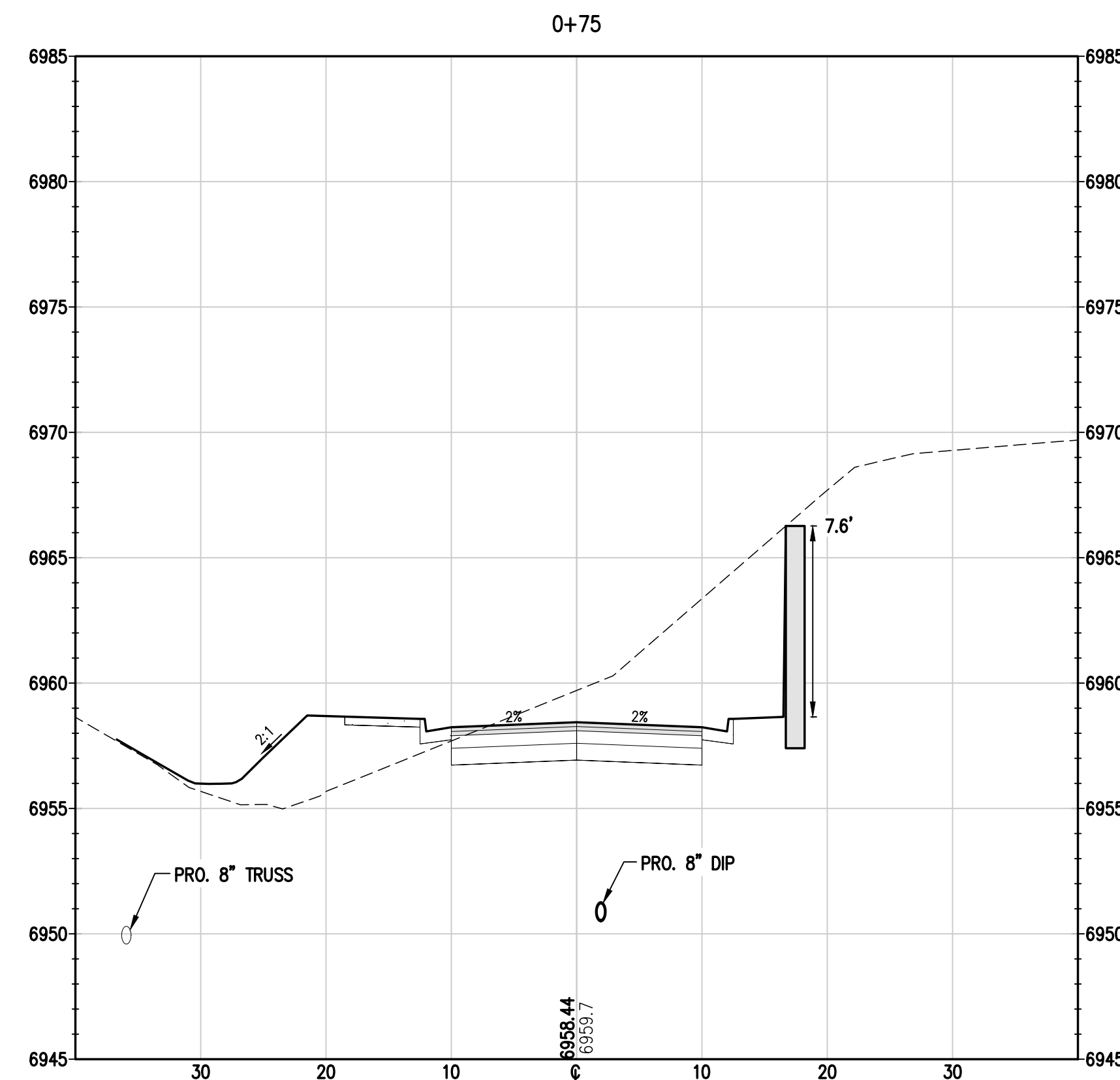
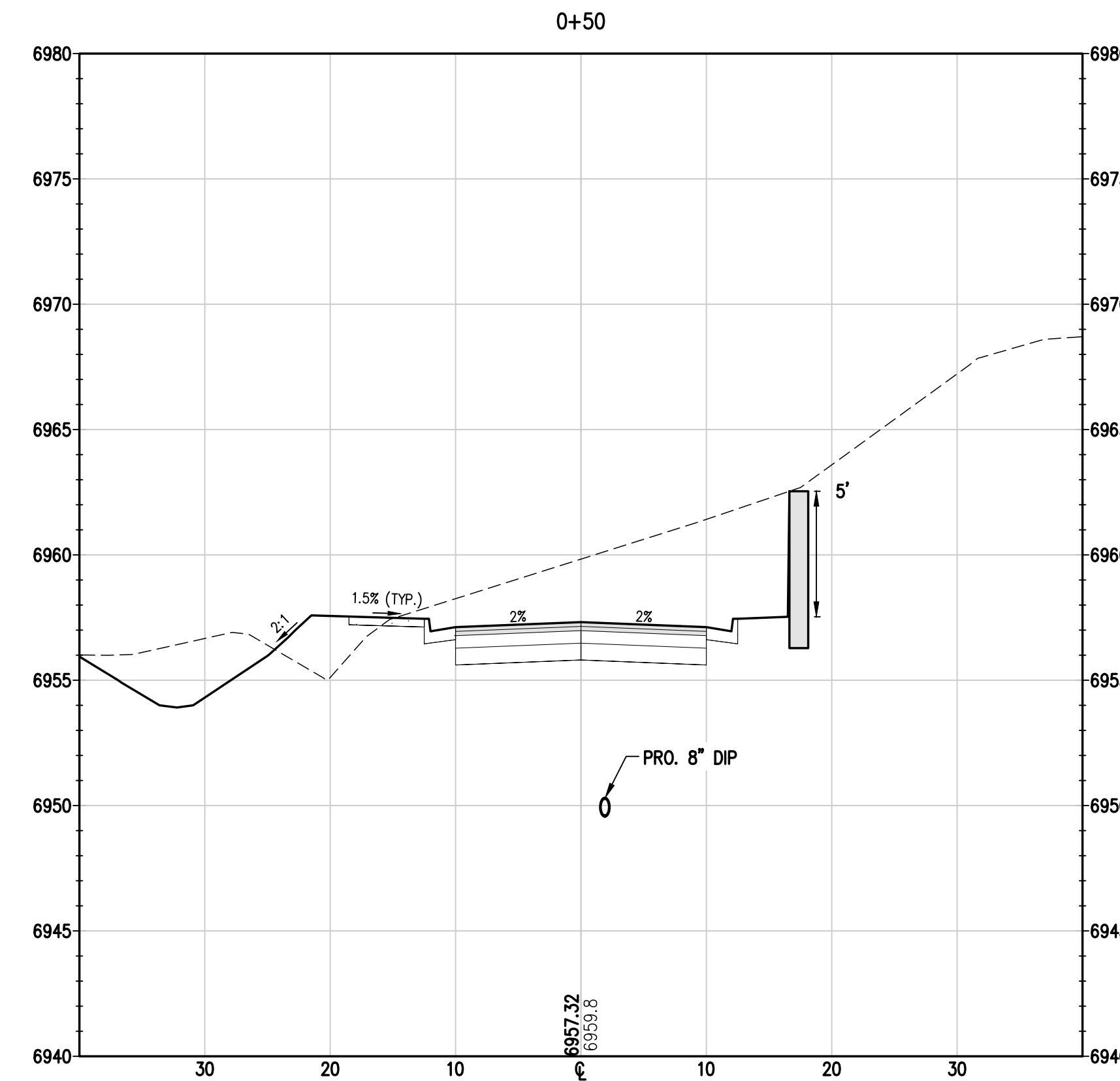
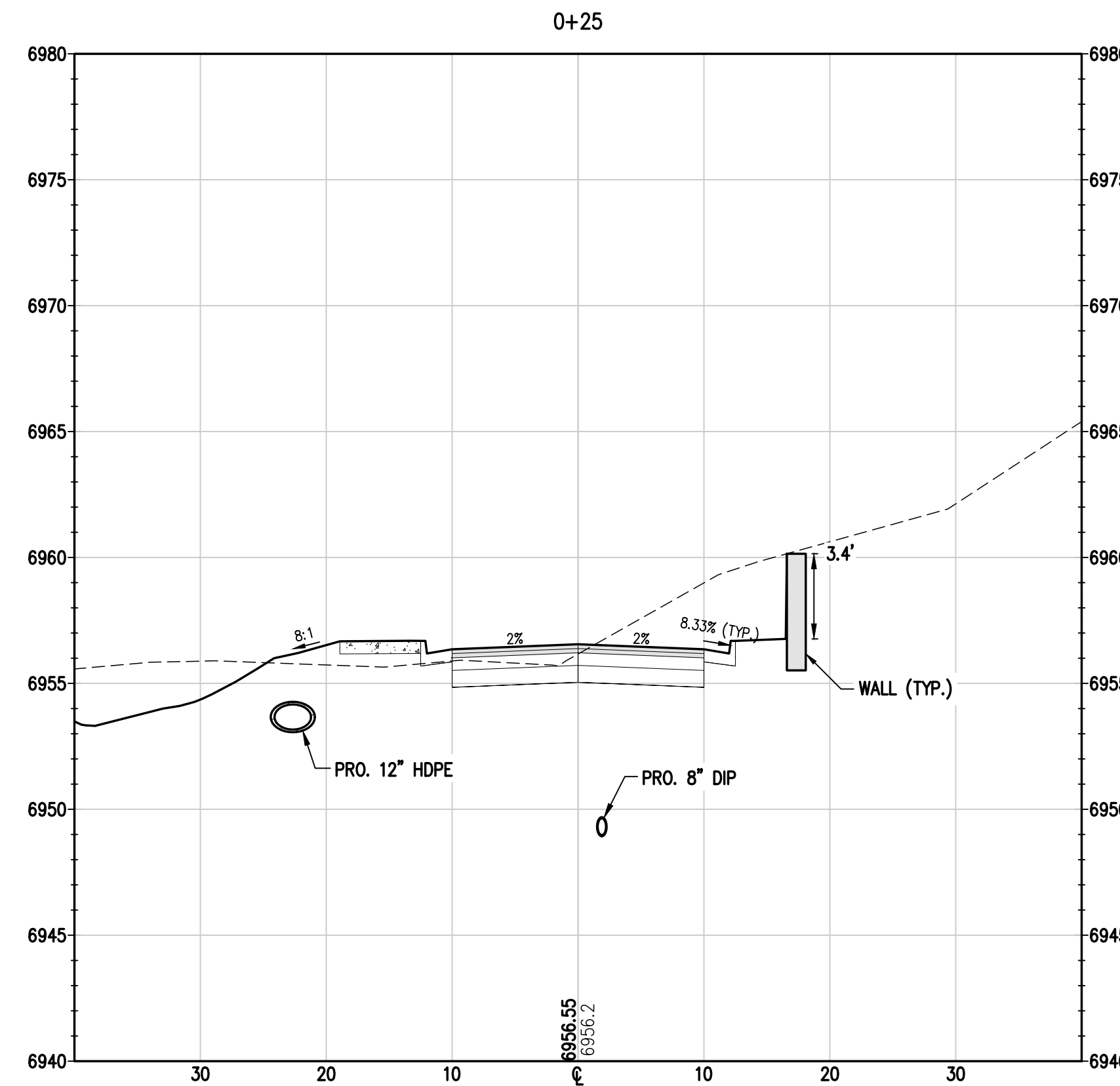
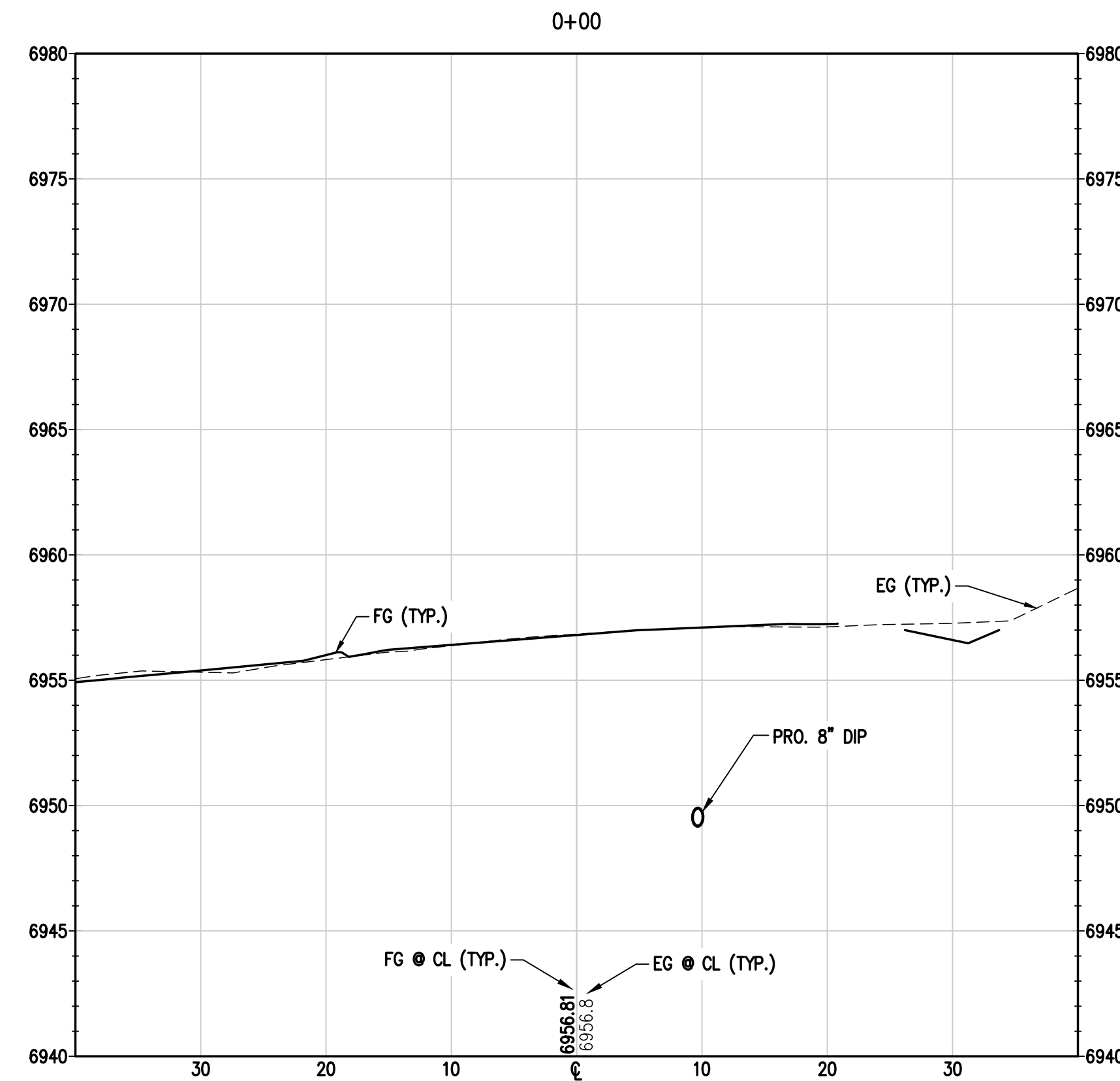
SHEET 41 OF 64

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FOR
CODE
COMPLIANCE
04/01/2025

2
C41

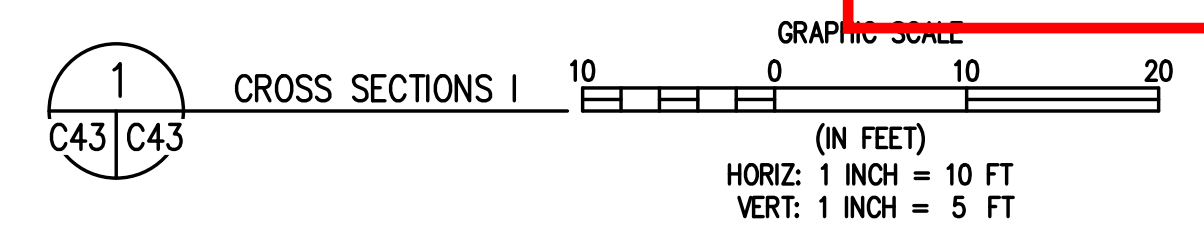
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NOTE: DRY UTILITIES NOT SHOWN IN CROSS SECTIONS FOR CLARITY. RE: UTILITY PLANS

**REVIEWED
FOR
CODE
COMPLIANCE**
04/01/2025



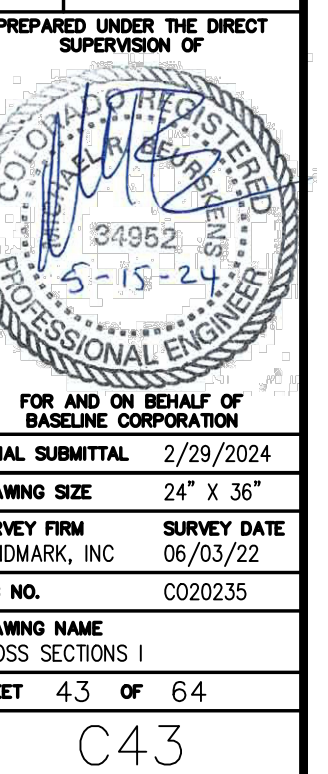
INITIAL SUBMITTAL FOR CITY REVIEW	SMB	2/79/2024	SMB
CITY COMMENTS	SMB	5/15/2024	DRAWN BY TJM
			CHECKED BY MRB

CITY OF STEAMBOAT SPRINGS

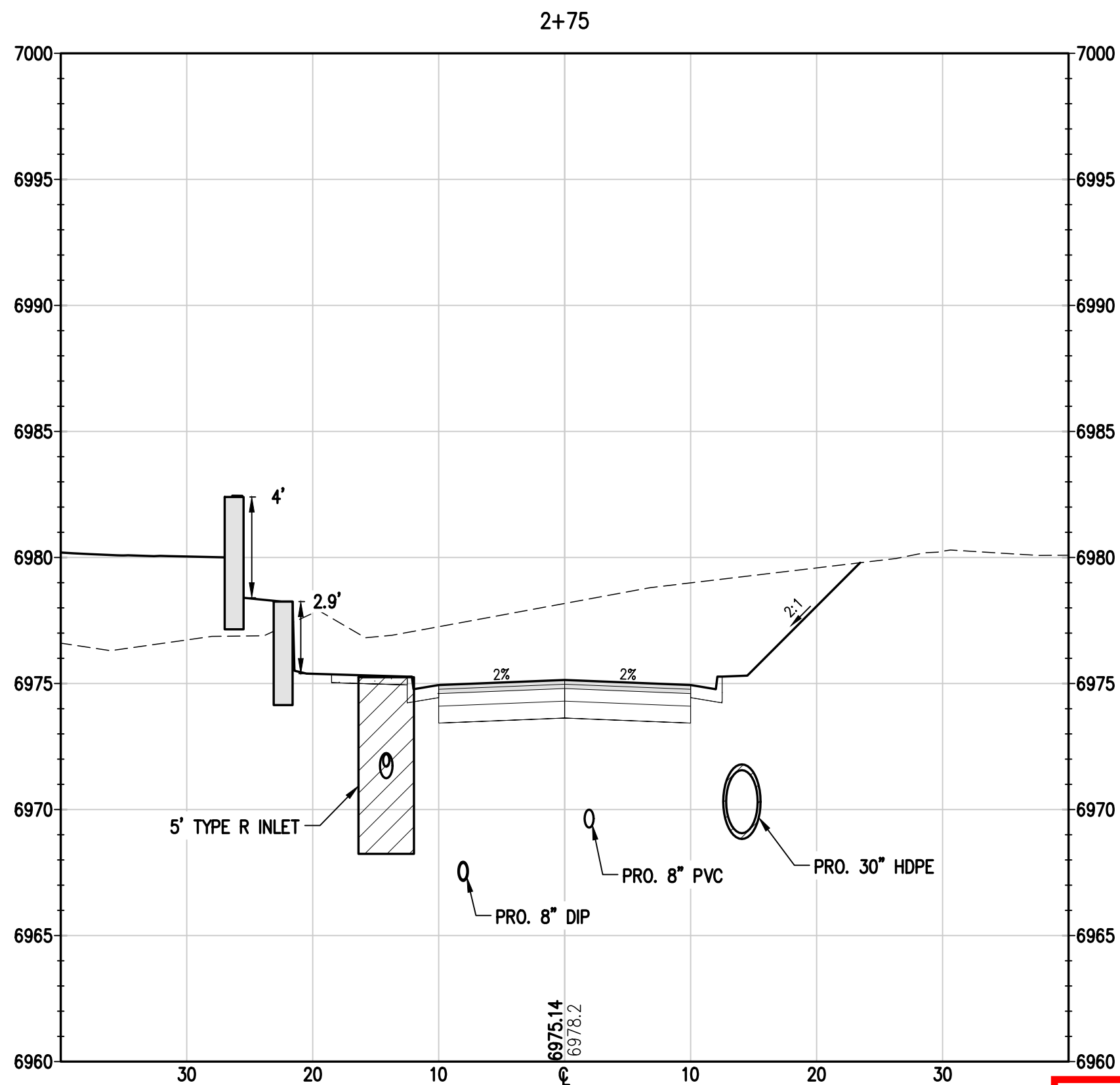
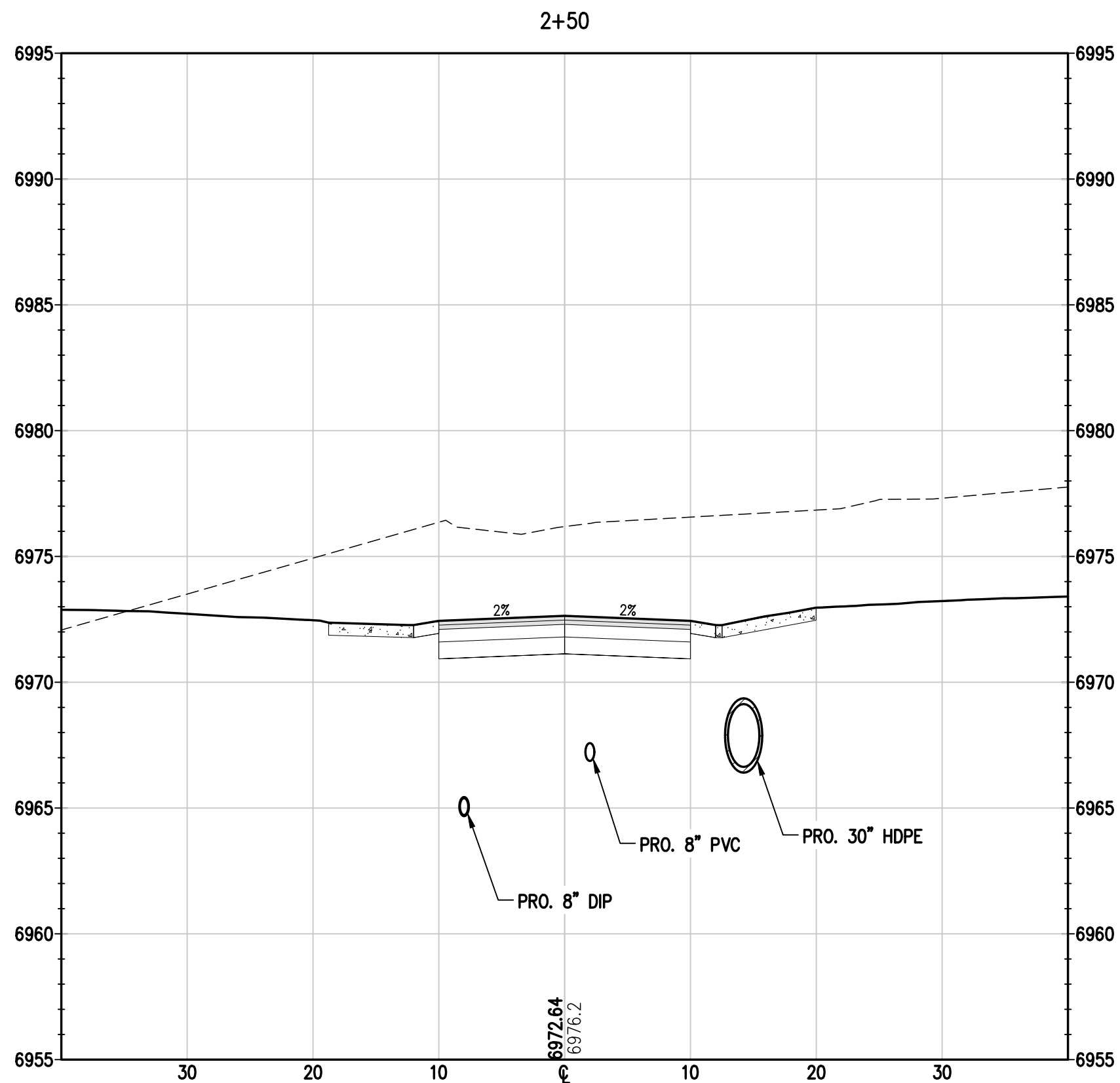
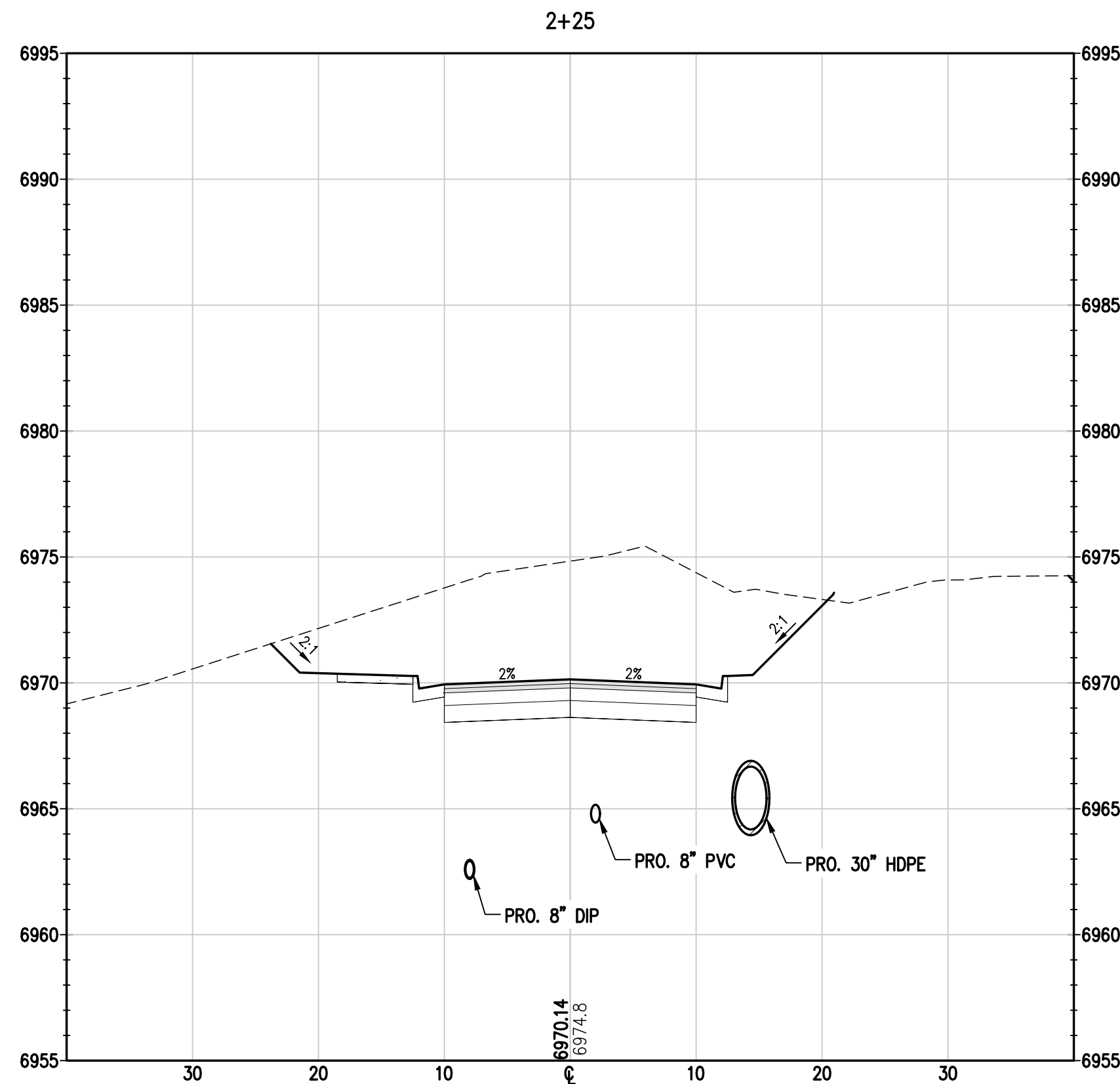
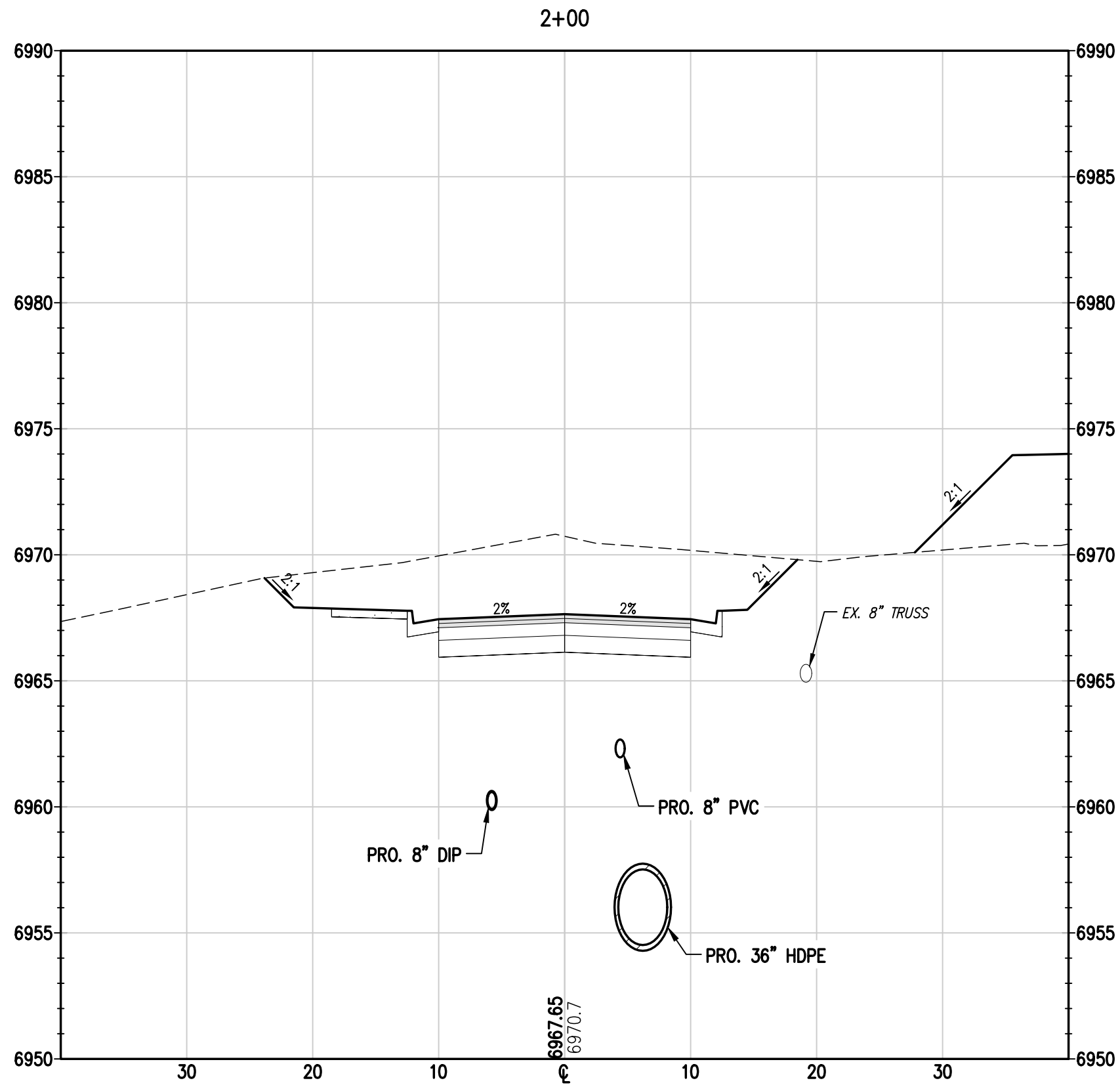
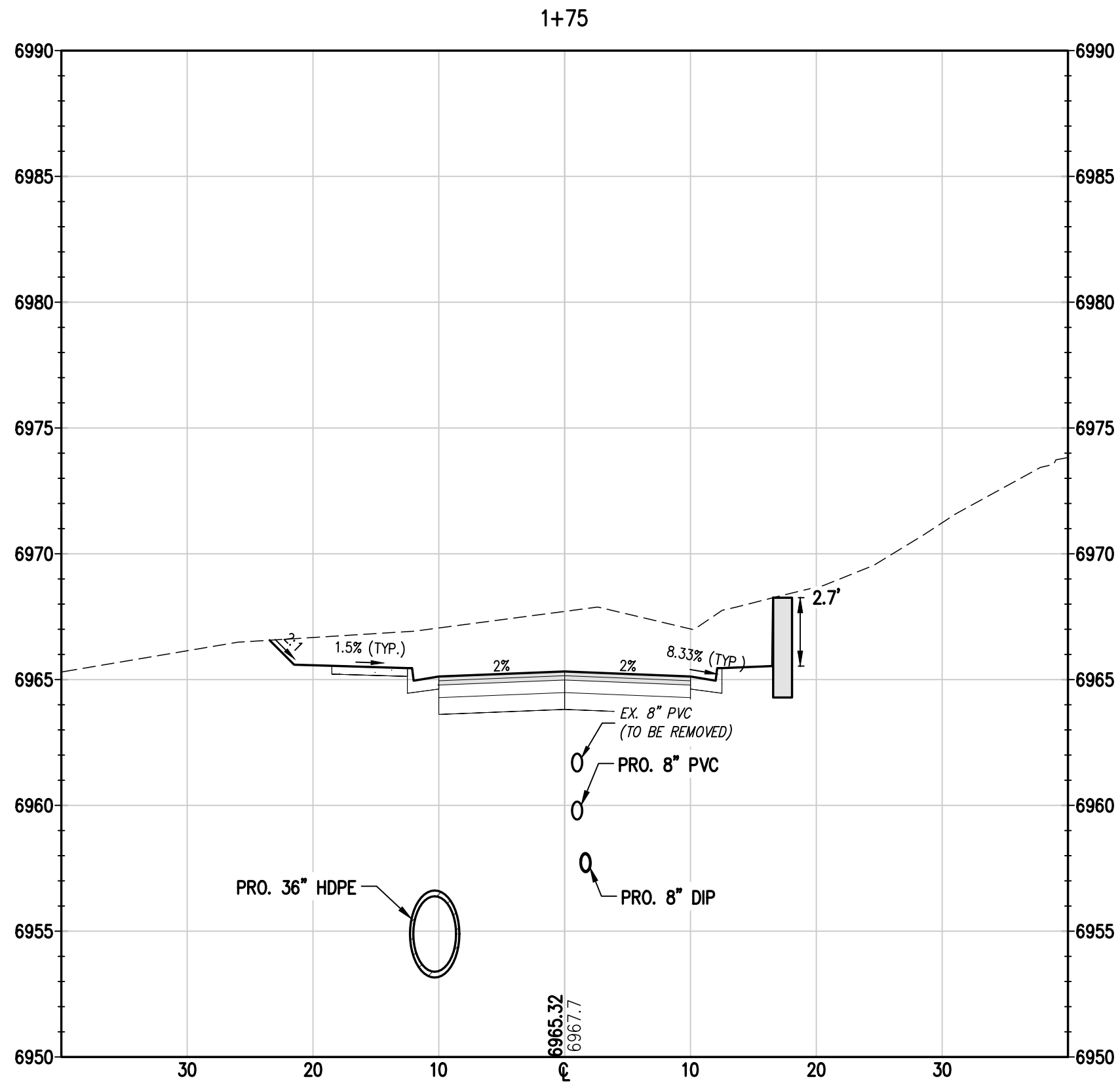
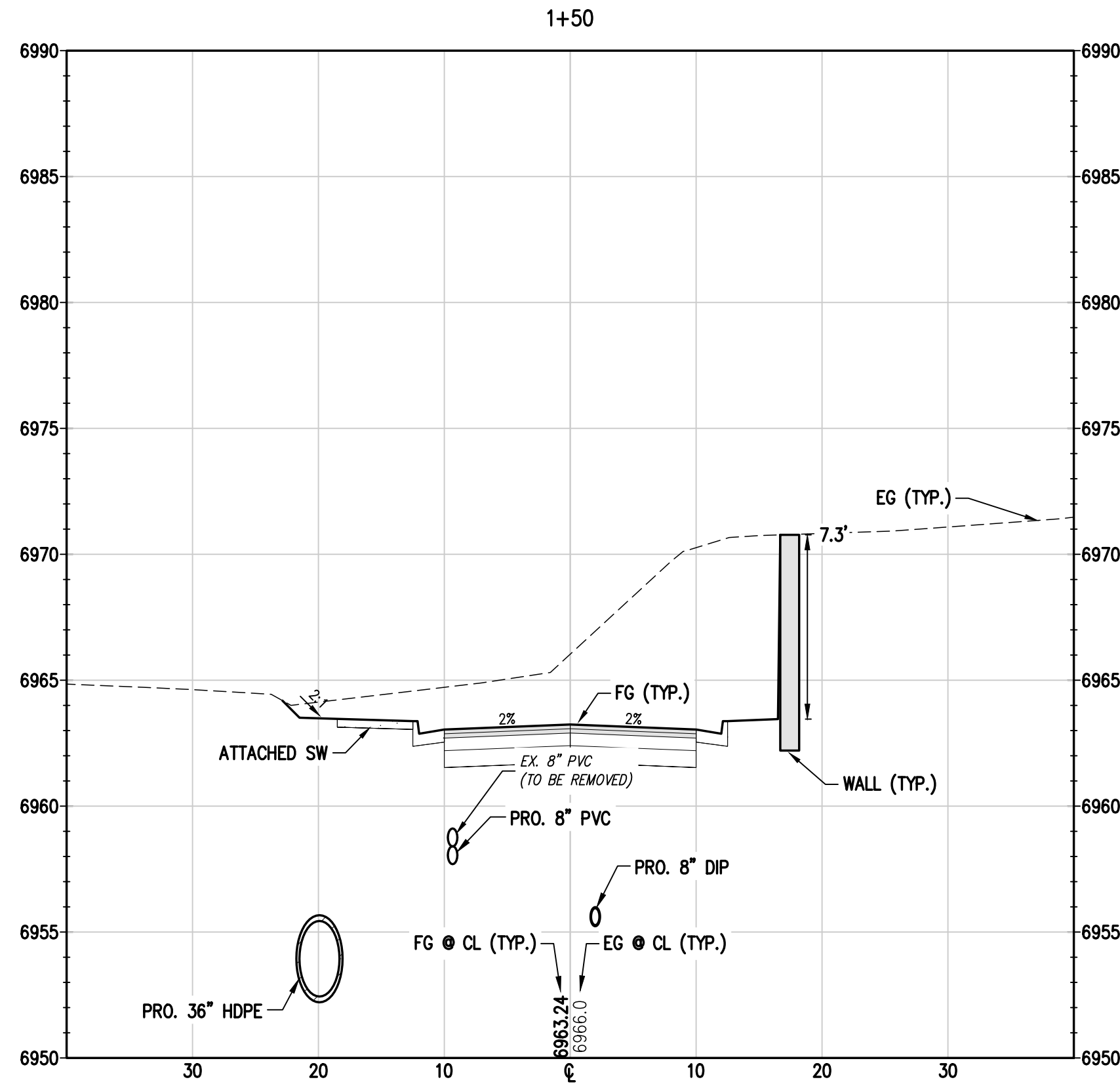
STEAMBOAT ESQUIAR LP

THE ASTRID
2410 SKI TRAIL LANE
CROSS SECTIONS I

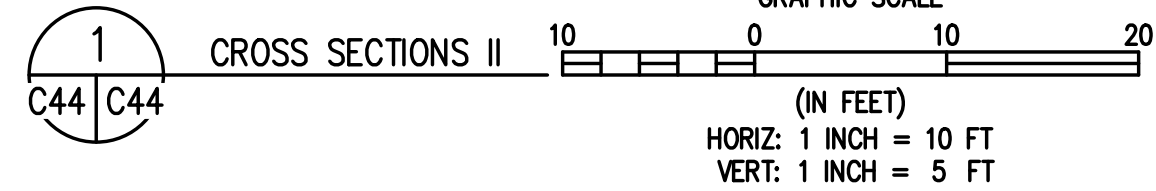
ROUTT COUNTY



C:\CO20235 Astrid-Edgemont Ph2\Drawings\Construction Documents\20235 CROSS SECTIONS-CD.dwg, 5/15/2024 2:52:37 PM, Steve Batchelder



NOTE: DRY UTILITIES NOT SHOWN IN CROSS SECTIONS FOR CLARITY. RE:UTILITY PLANS

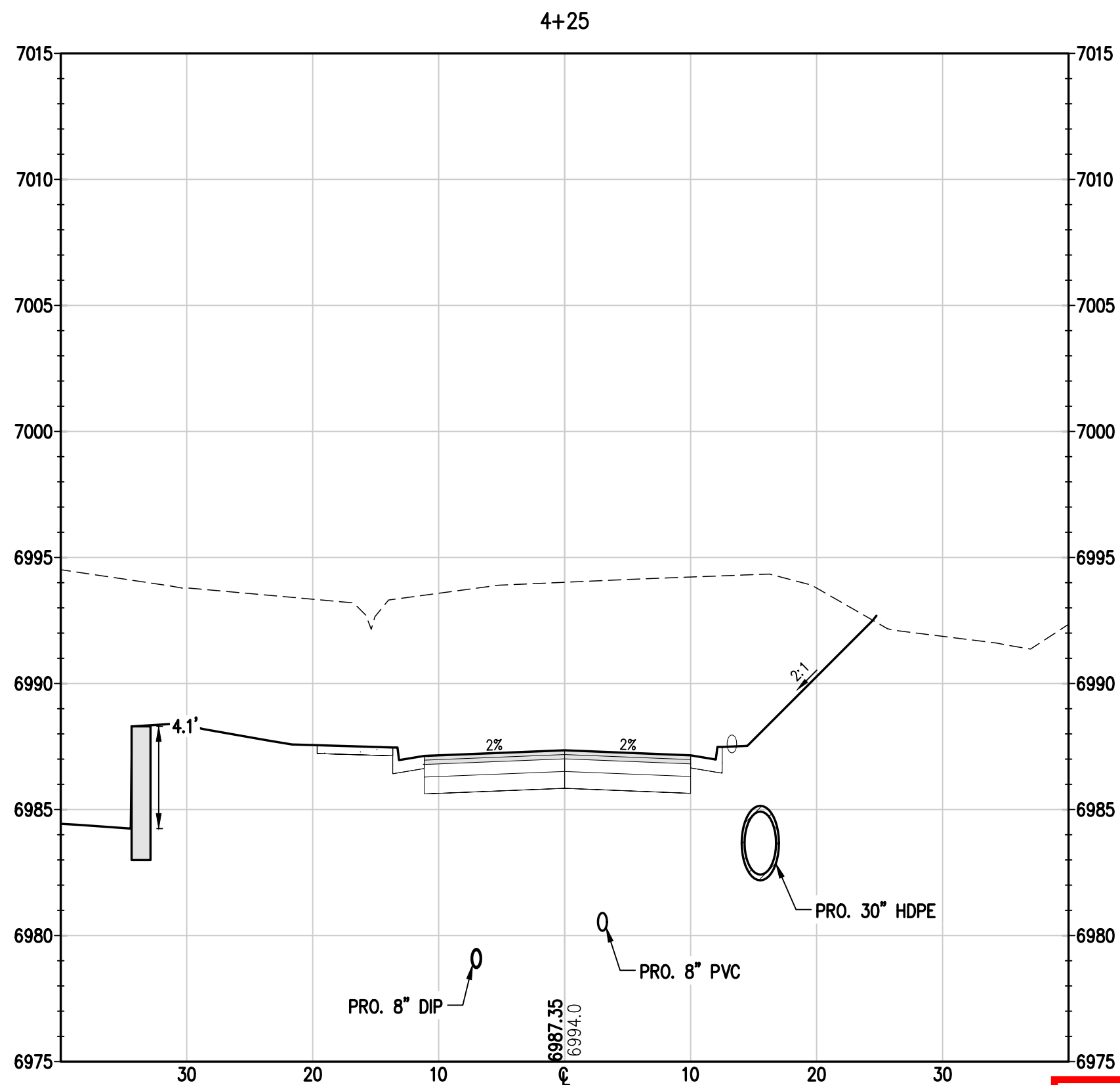
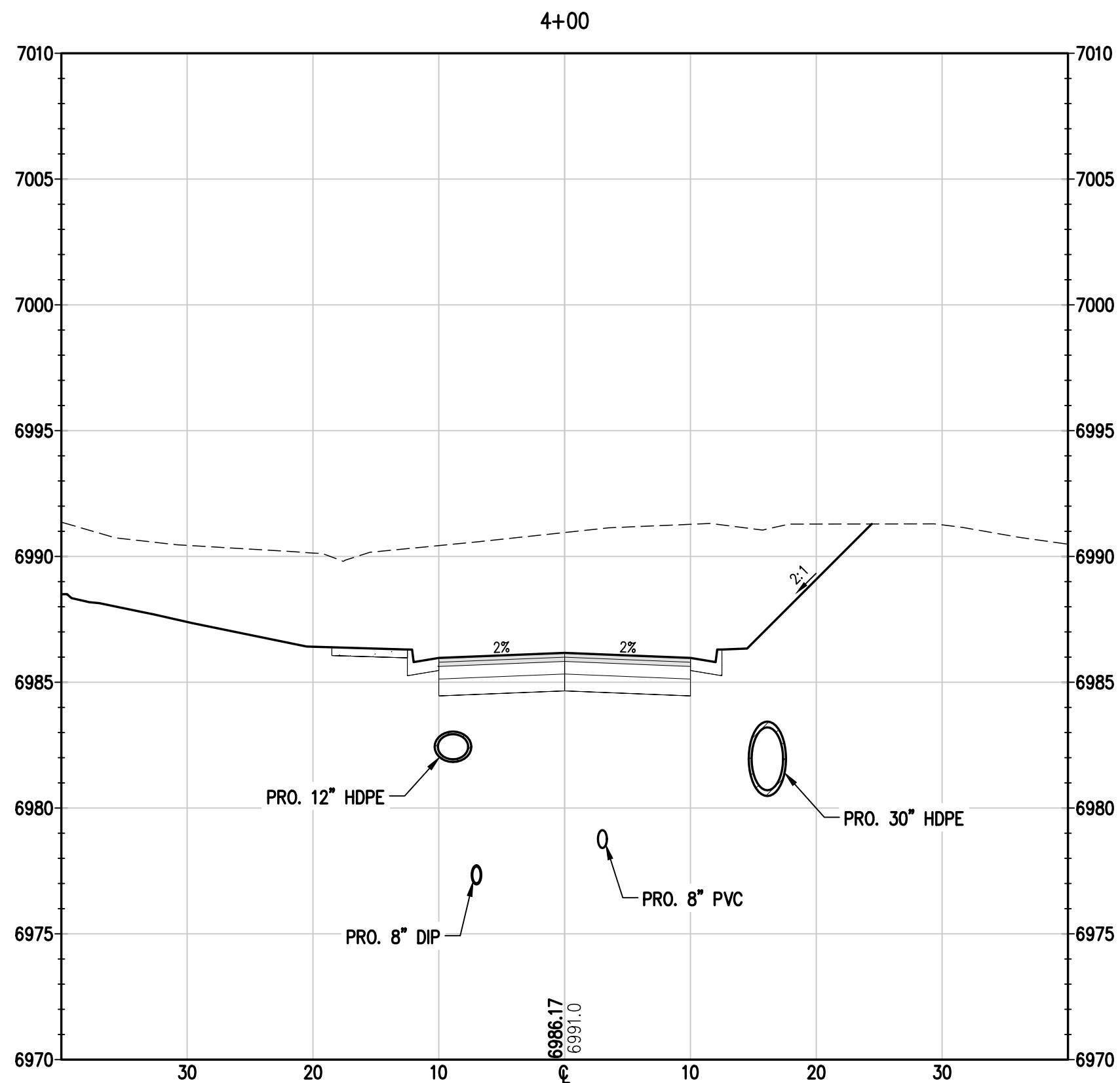
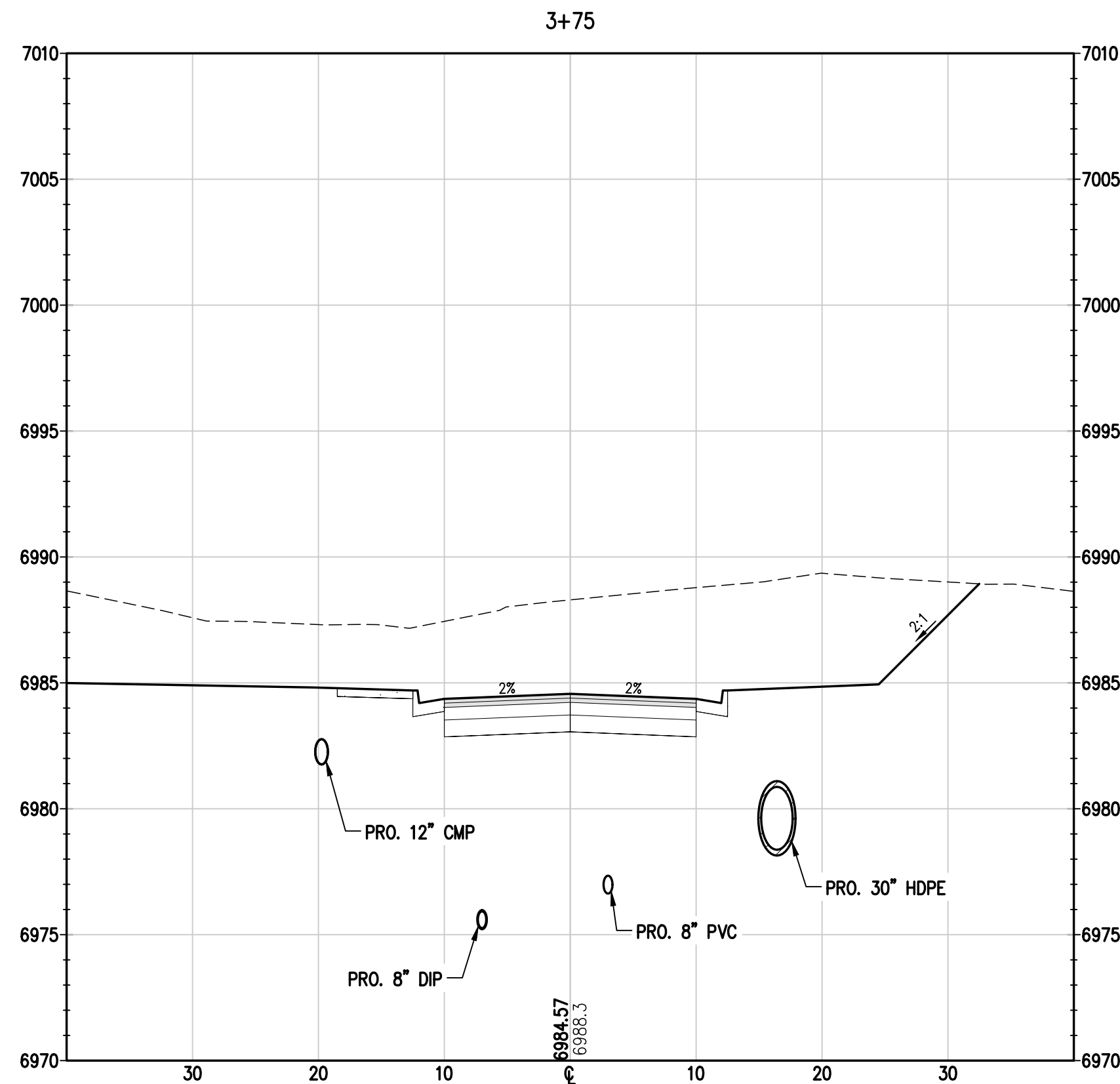
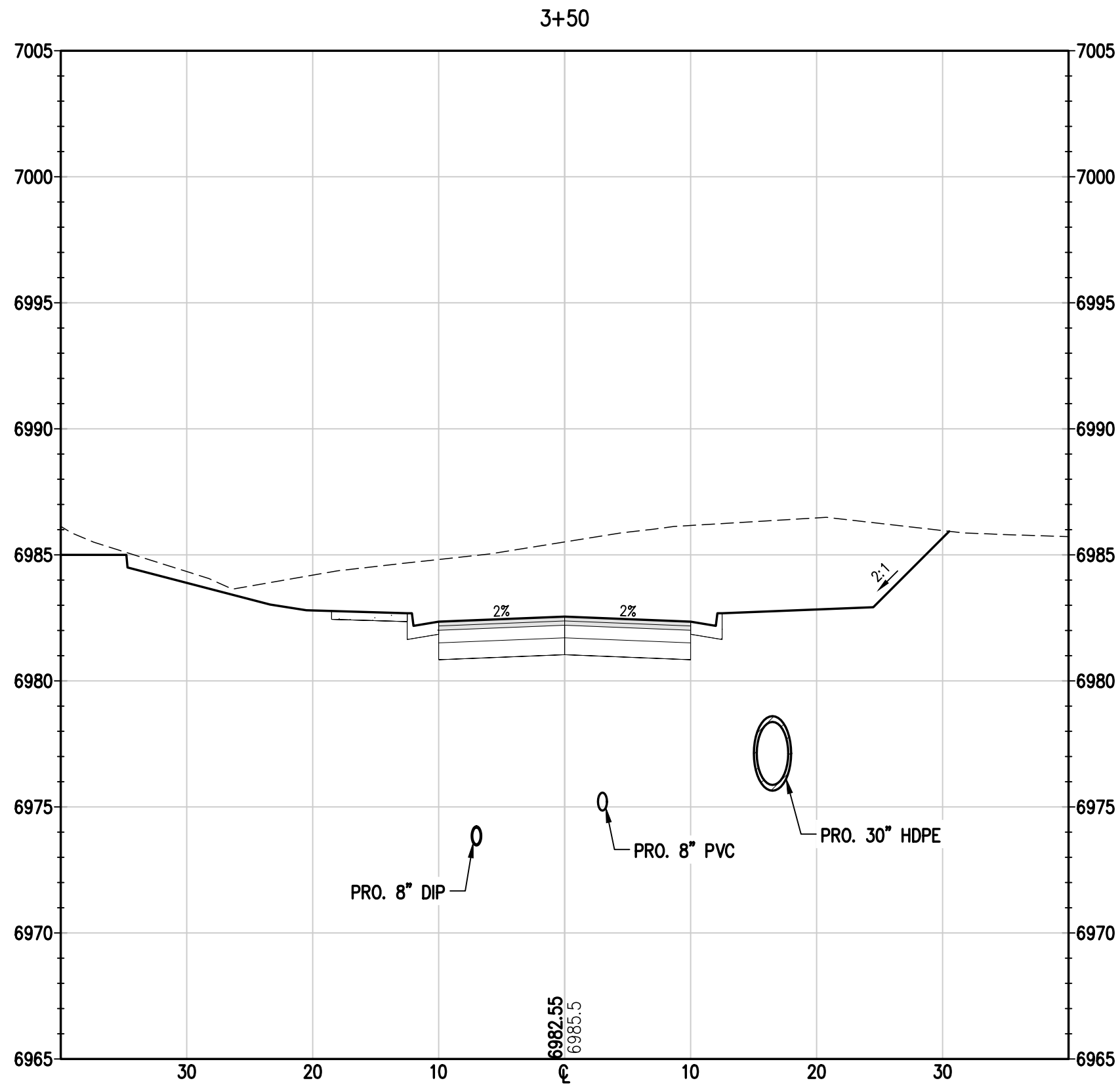
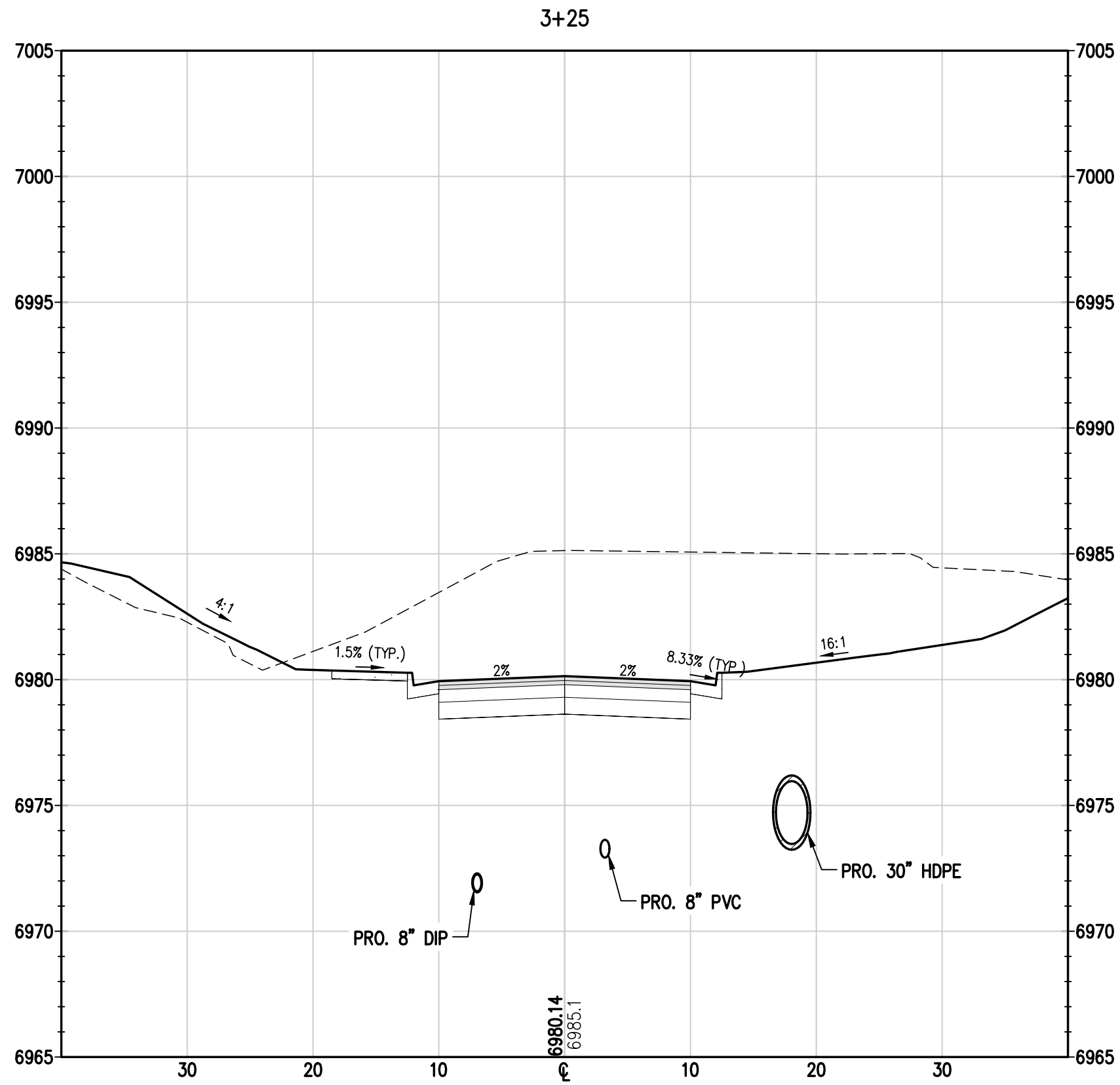
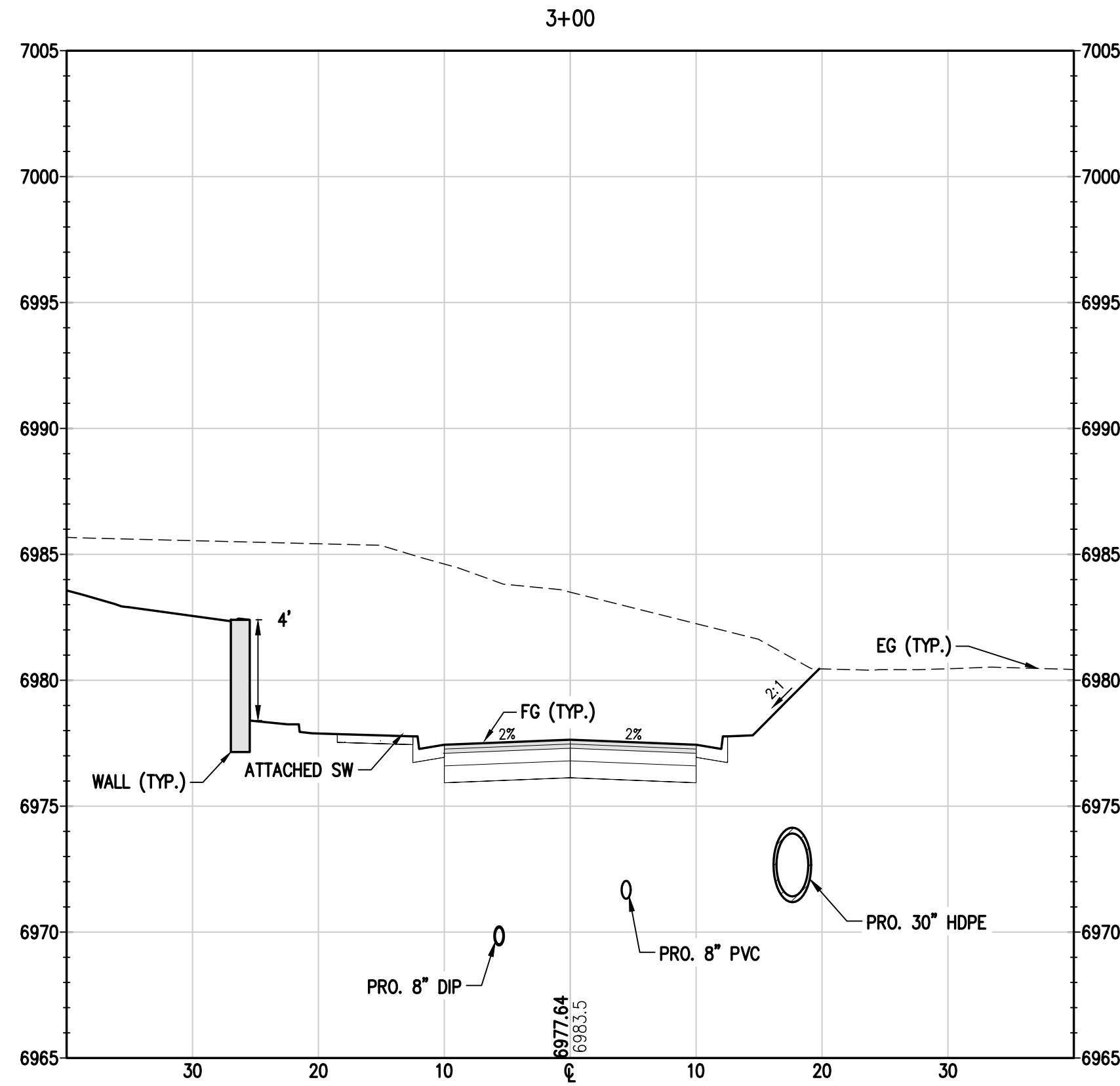


DESIGNED BY	SMB	DATE	2/29/2024
DRAWN BY	TJM	DATE	5/15/2024
CHECKED BY	MRB		
REVISION DESCRIPTION			
INITIAL SUBMITTAL FOR CITY REVIEW	SMB	2/29/2024	
CITY COMMENTS	SMB	5/15/2024	

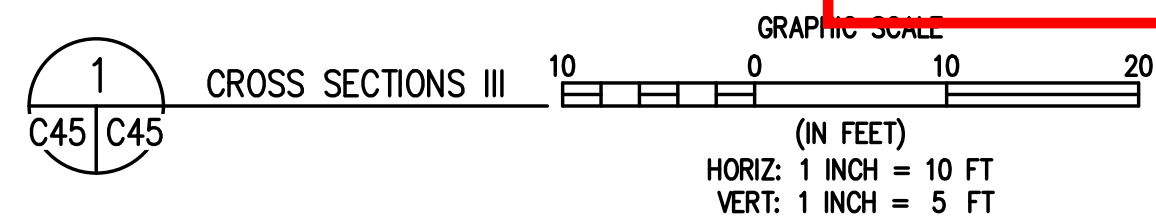
STEAMBOAT ESQUIAR LP
THE ASTRID
2410 SKI TRAIL LANE
CROSS SECTIONS II
CITY OF STEAMBOAT SPRINGS
ROUTT COUNTY

FOR AND ON BEHALF OF BASELINE CORPORATION PROFESSIONAL ENGINEER 34962 5-15-24	INITIAL SUBMITTAL 2/29/2024
DRAWING SIZE 24" X 36"	SURVEY DATE 06/03/22
JOB NO. C020235	DRAWING NAME CROSS SECTIONS II
SHEET 44 OF 64	

C:\CO20235 Astrid-Edgemont Ph2\Drawings\Construction Documents\20235 CROSS SECTIONS-CD.dwg, 5/15/2024 2:52:40 PM, Steve Batchelder



NOTE: DRY UTILITIES NOT SHOWN IN CROSS SECTIONS FOR CLARITY. RE: UTILITY PLANS



REVIEWED
FOR
CODE
COMPLIANCE
04/01/2025

DESIGNED BY	DATE	PREPARED BY	REVISION DESCRIPTION
SMB	2/29/2024	SMB	INITIAL SUBMITTAL FOR CITY REVIEW
TJM	5/15/2024	SMB	CITY COMMENTS
MRB			

STEAMBOAT ESQUIAR LP

THE ASTRID
2410 SKI TRAIL LANE
CROSS SECTIONS III

CITY OF STEAMBOAT SPRINGS
ROUTT COUNTY

FOR AND ON BEHALF OF
BASELINE CORPORATION

PROFESSIONAL ENGINEER
34952
5-15-24

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC. SURVEY DATE 06/03/22

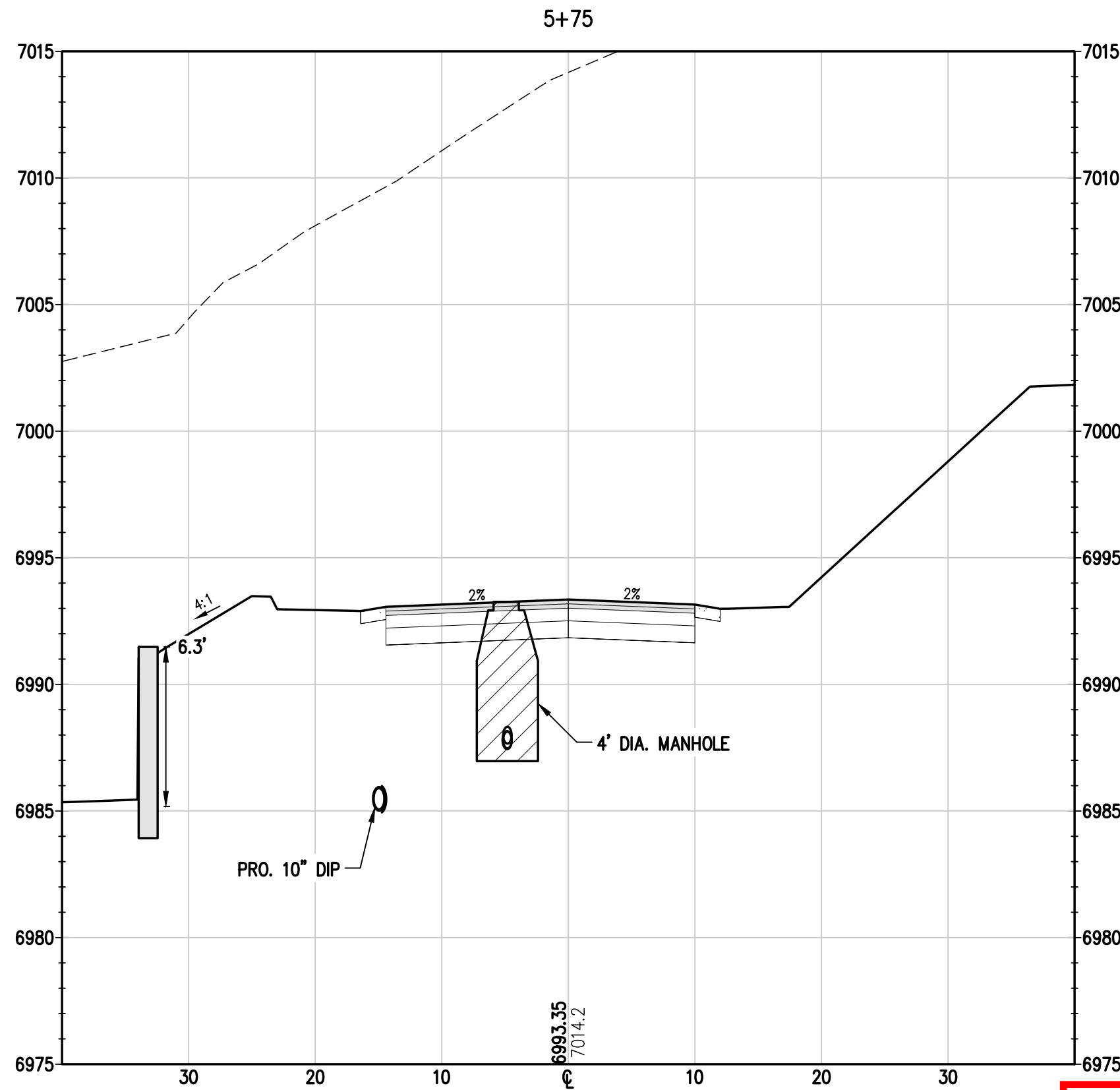
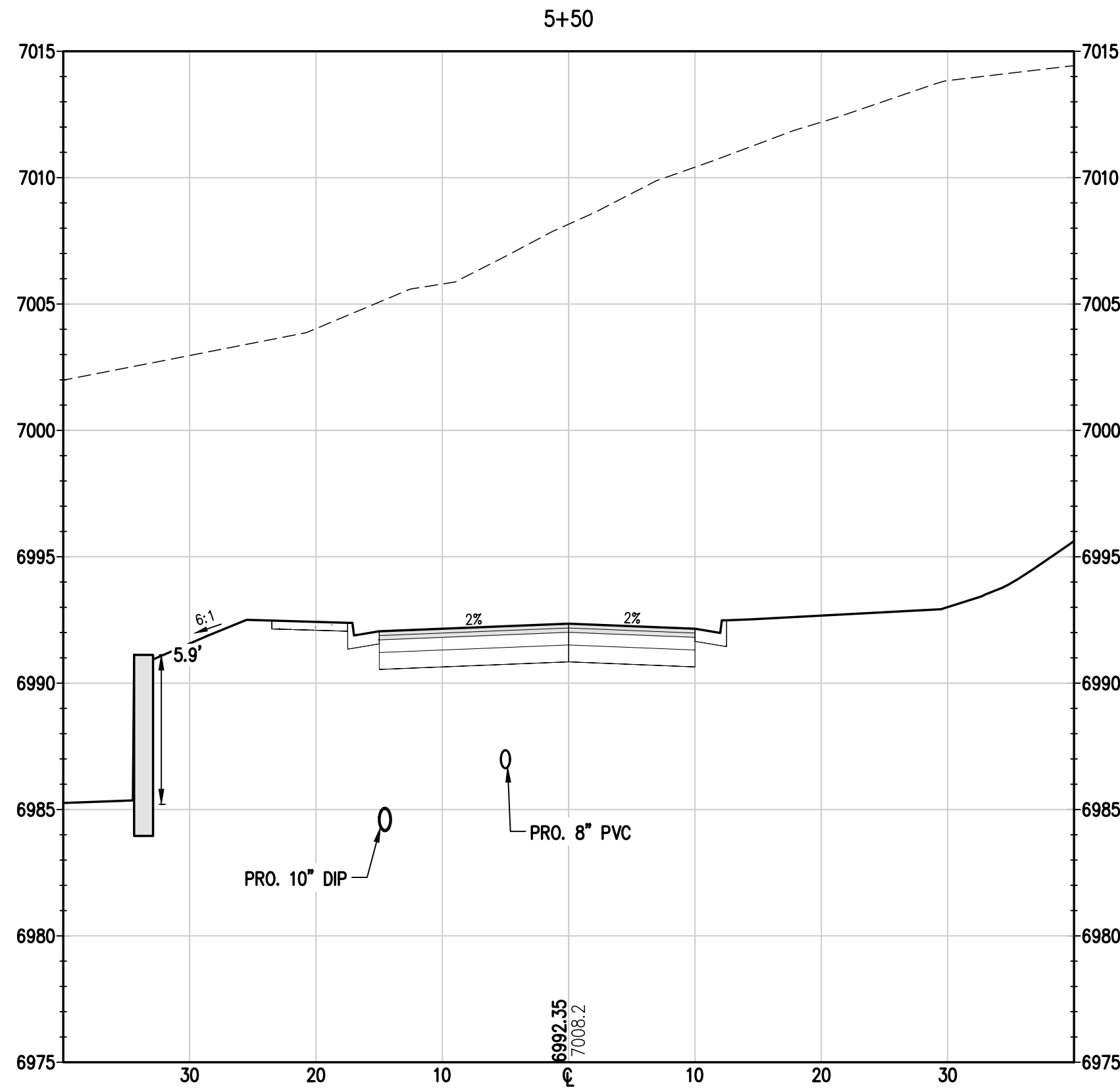
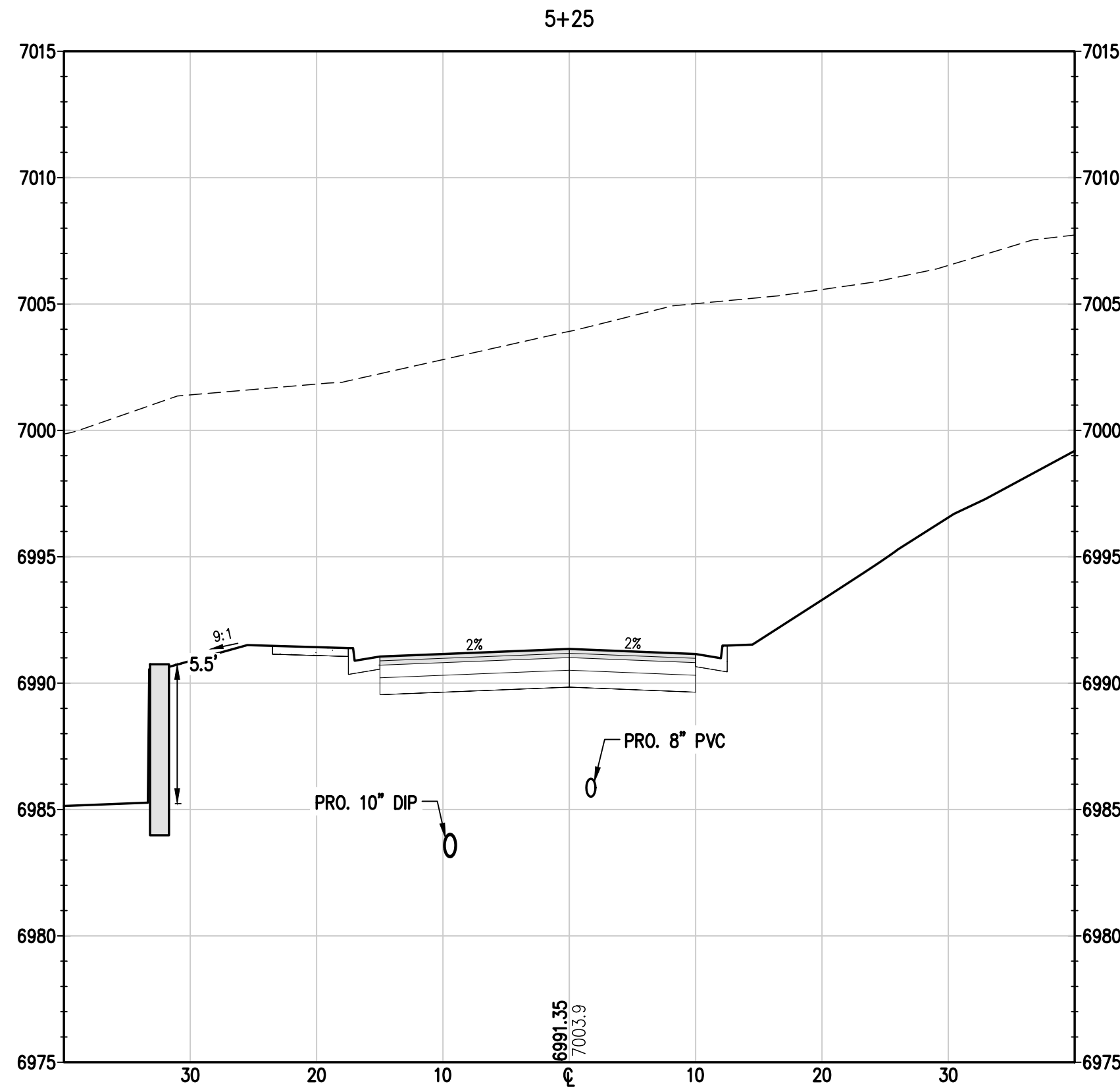
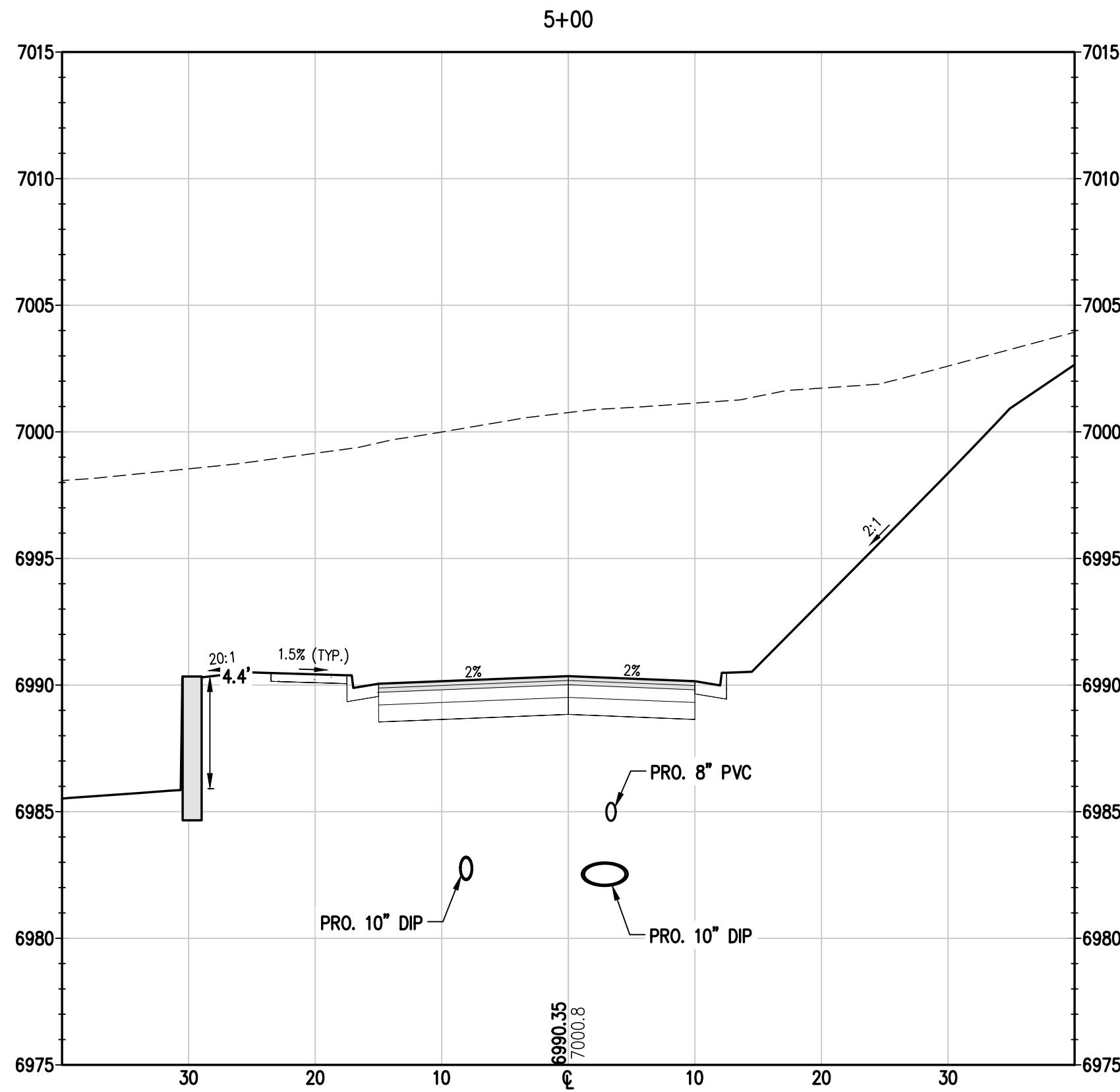
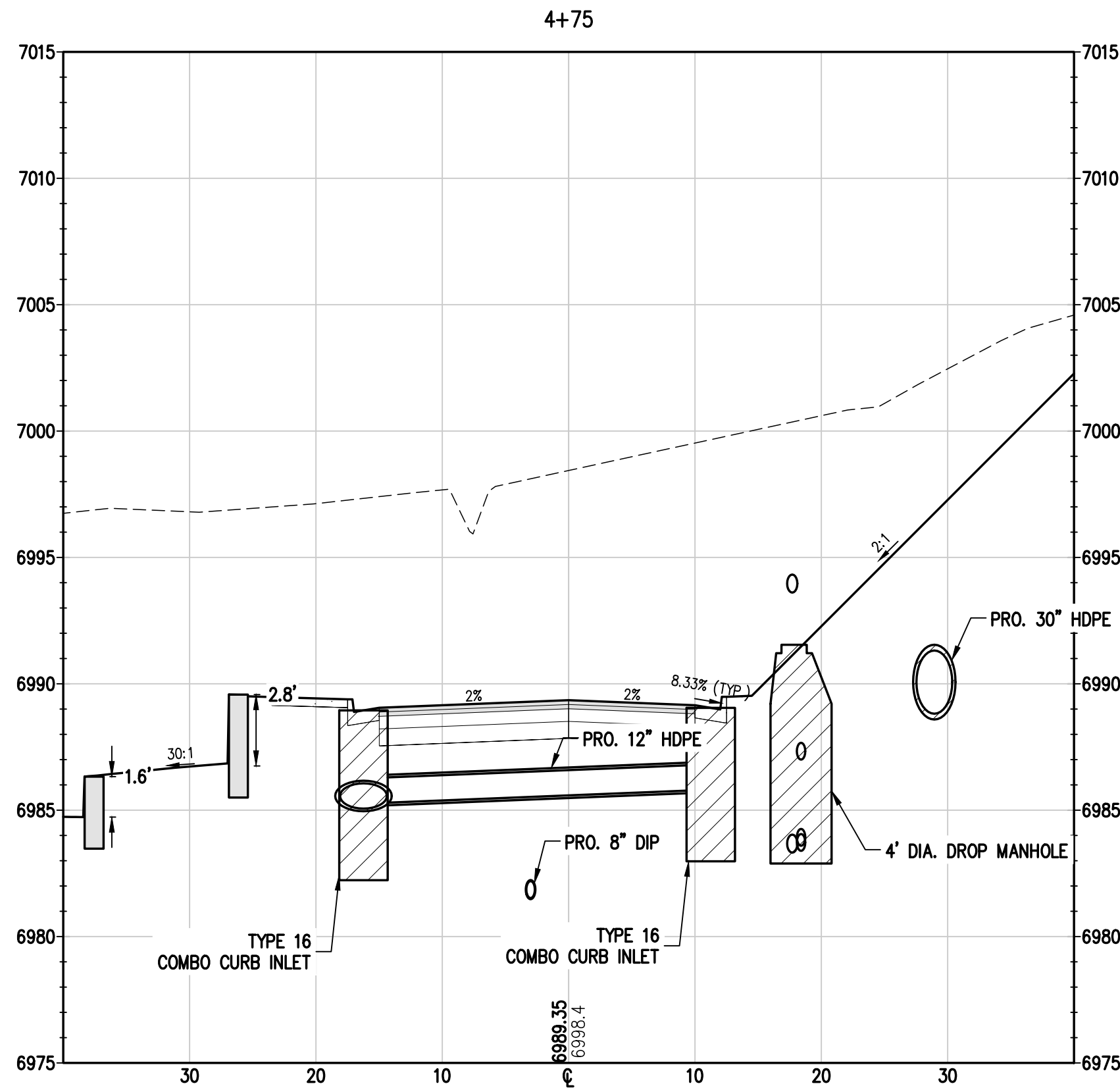
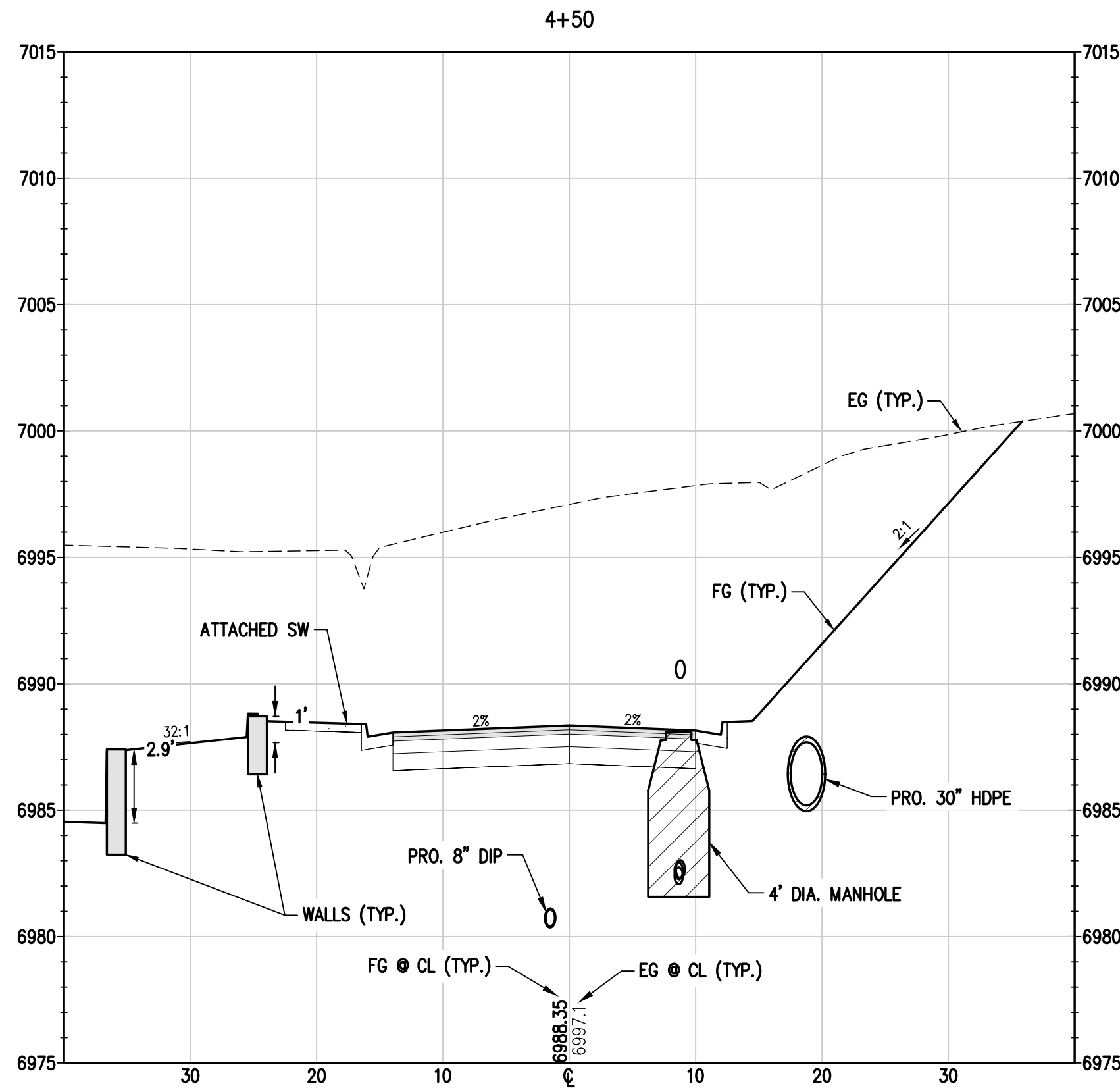
JOB NO. C020235

DRAWING NAME CROSS SECTIONS III

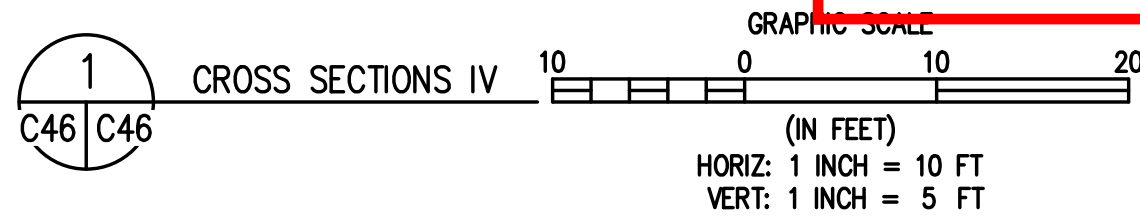
SHEET 45 OF 64

C45

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NOTE: DRY UTILITIES NOT
SHOWN IN CROSS SECTIONS FOR
CLARITY. RE: UTILITY PLANS



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CODE
COMPLIANCE
04/01/2025

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DESIGNED BY	SMB	DATE	2/29/2024
DRAWN BY	TJM	PREPARED BY	SMB
CHECKED BY	MRB	REVISION DESCRIPTION	INITIAL SUBMITTAL FOR CITY REVIEW
			CITY COMMENTS

CITY OF STEAMBOAT SPRINGS

ROUTE COUNTY

THE ASTRID
2410 SKI TRAIL LANE
CROSS SECTIONS IV

FOR AND ON BEHALF OF
BASELINE CORPORATION

34952
5-15-24
PROFESSIONAL ENGINEER

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC

SURVEY DATE 06/03/22

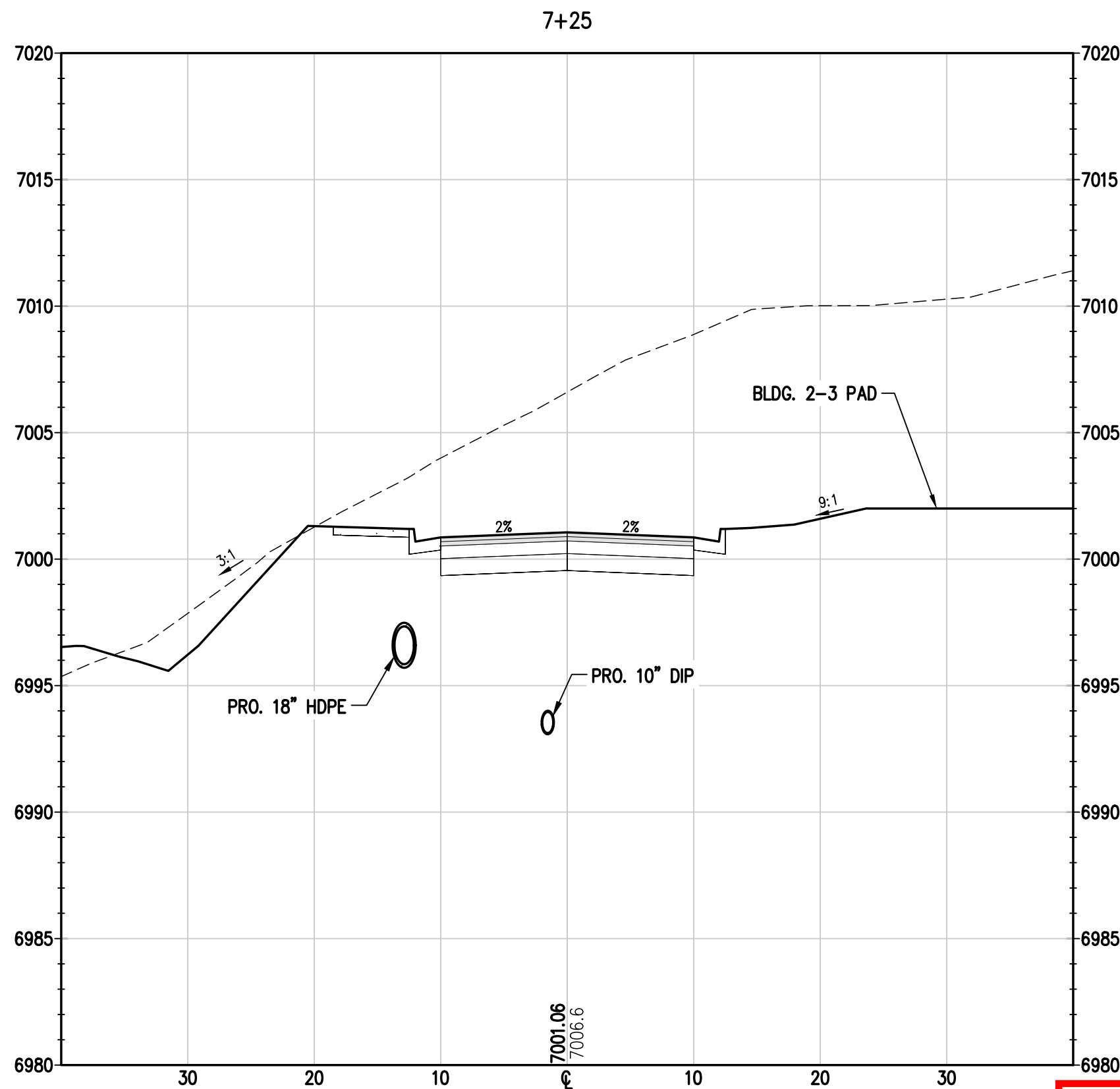
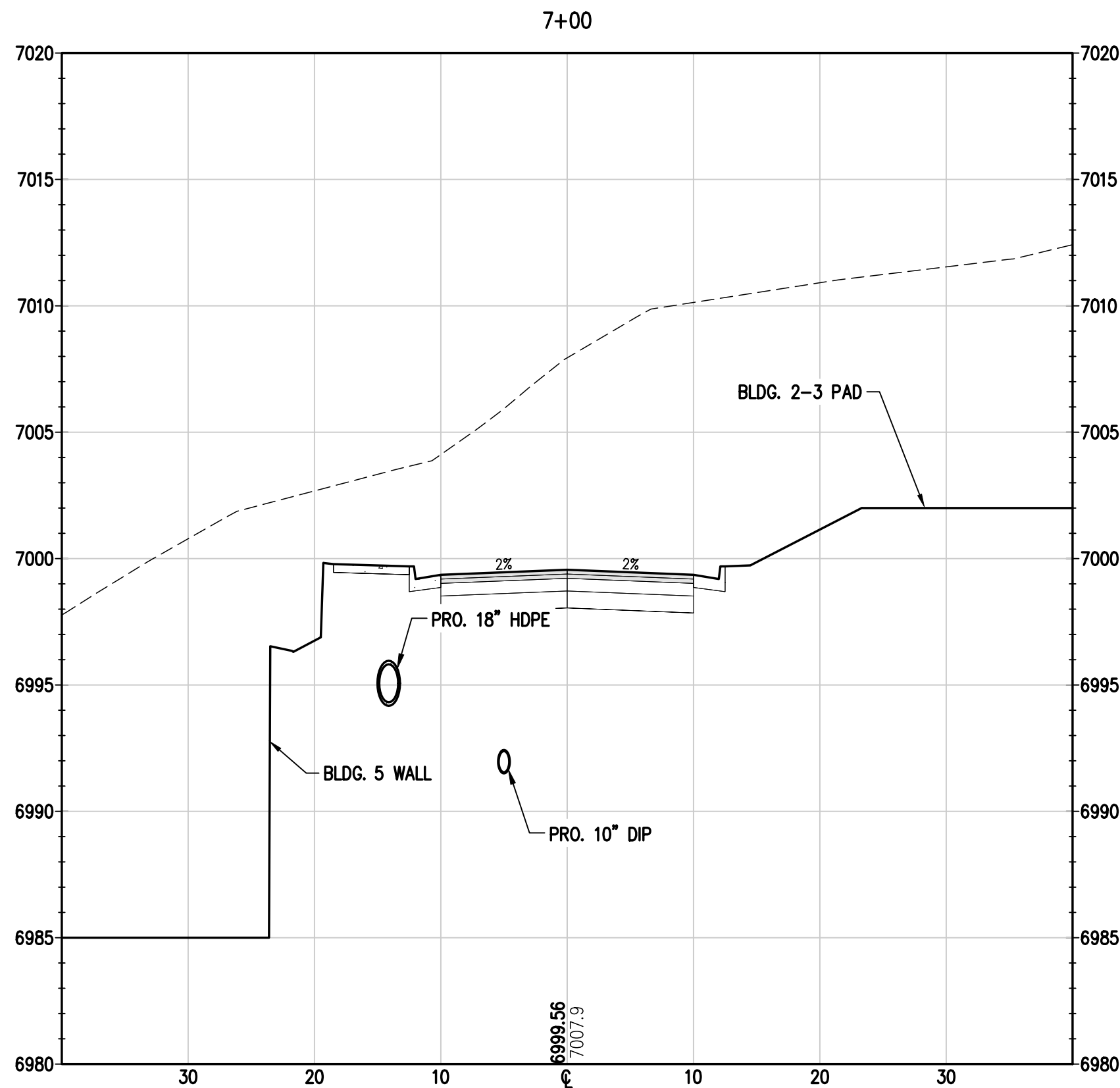
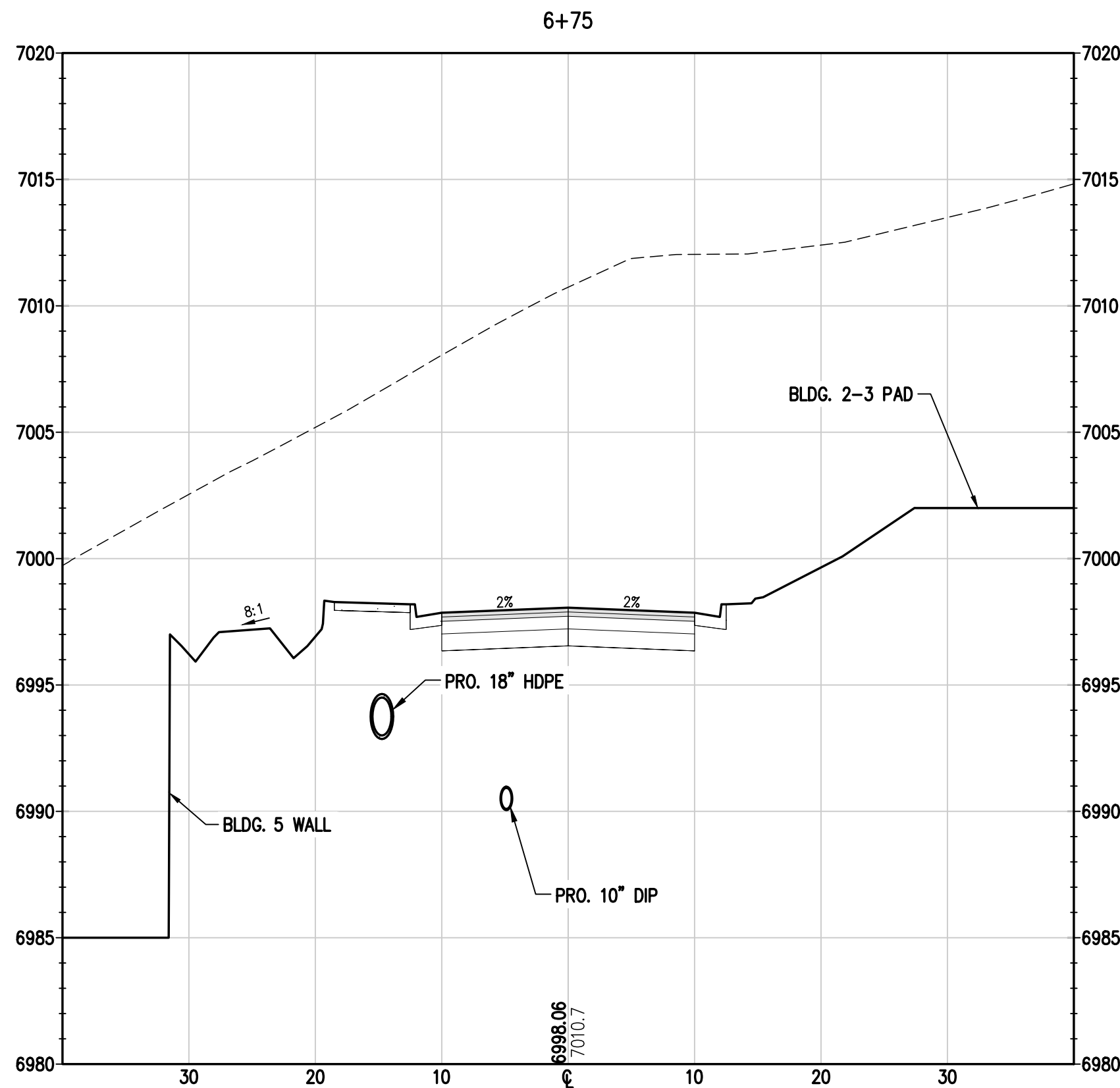
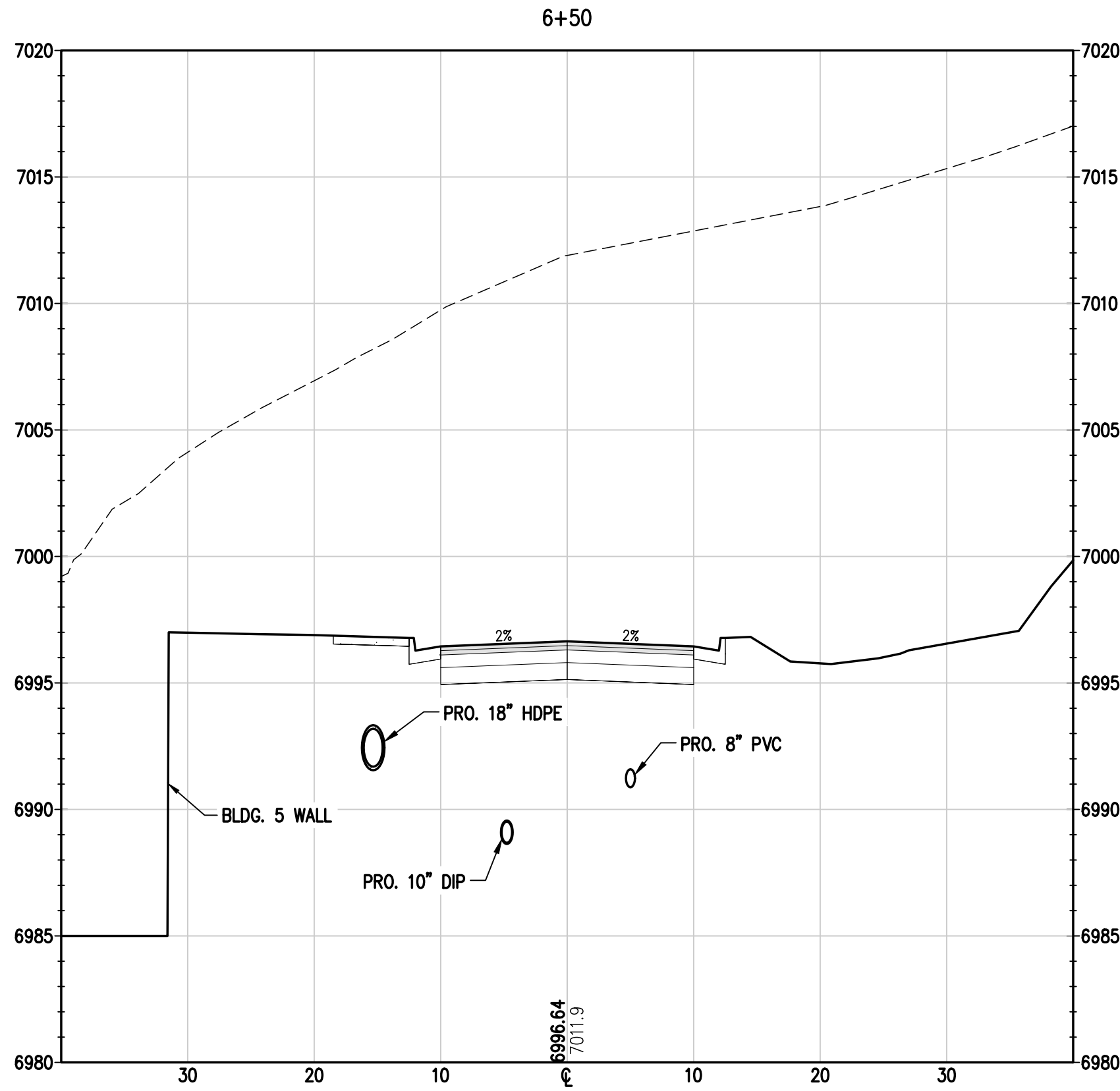
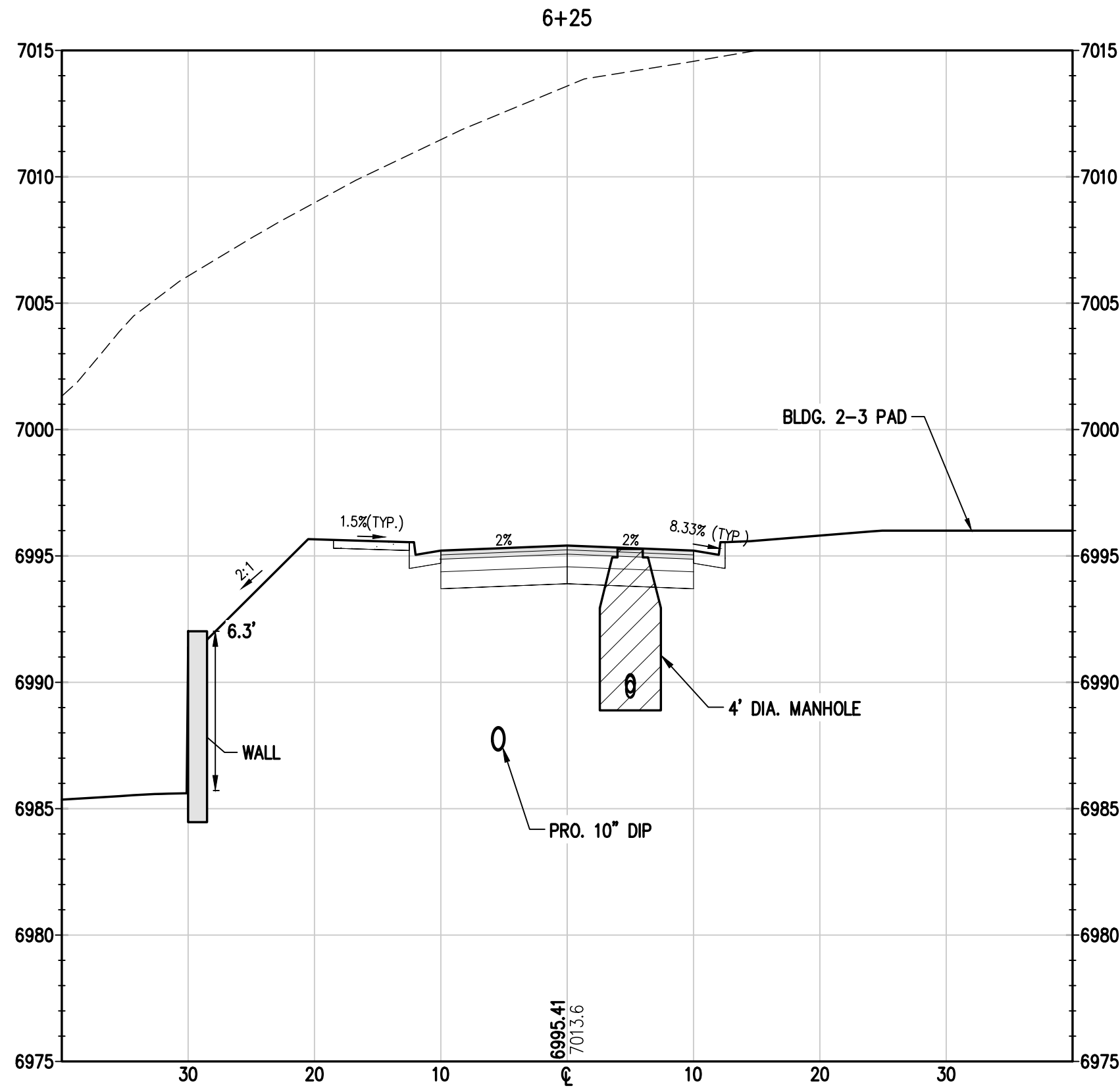
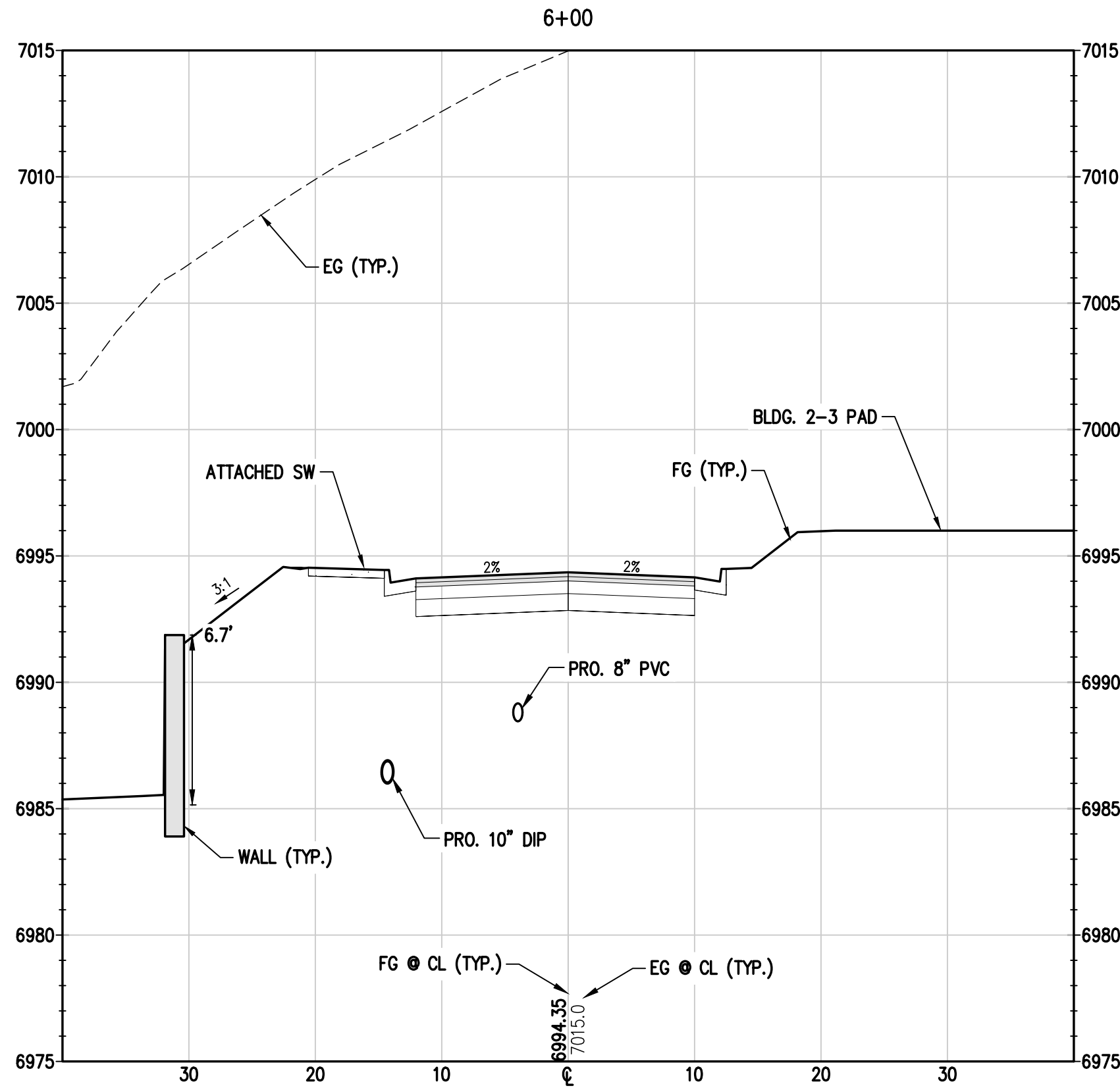
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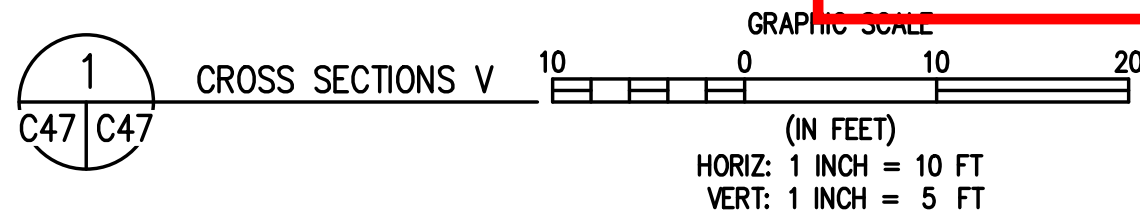
SHEET 46 OF 64

C46

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NOTE: DRY UTILITIES NOT SHOWN IN CROSS SECTIONS FOR CLARITY. RE: UTILITY PLANS



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DRAWN BY	TJM	CITY COMMENTS	
CHECKED BY	MRB		

REVISION DESCRIPTION	PREPARED BY	DATE
INITIAL SUBMITTAL FOR CITY REVIEW	SMB	2/29/2024
CITY COMMENTS	SMB	5/15/2024

CITY OF STEAMBOAT SPRINGS

ROUTE COUNTY

THE ASTRID
2410 SKI TRAIL LANE
CROSS SECTIONS V

FOR AND ON BEHALF OF
BASELINE CORPORATION

34952
5-15-24
PROFESSIONAL ENGINEER

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC

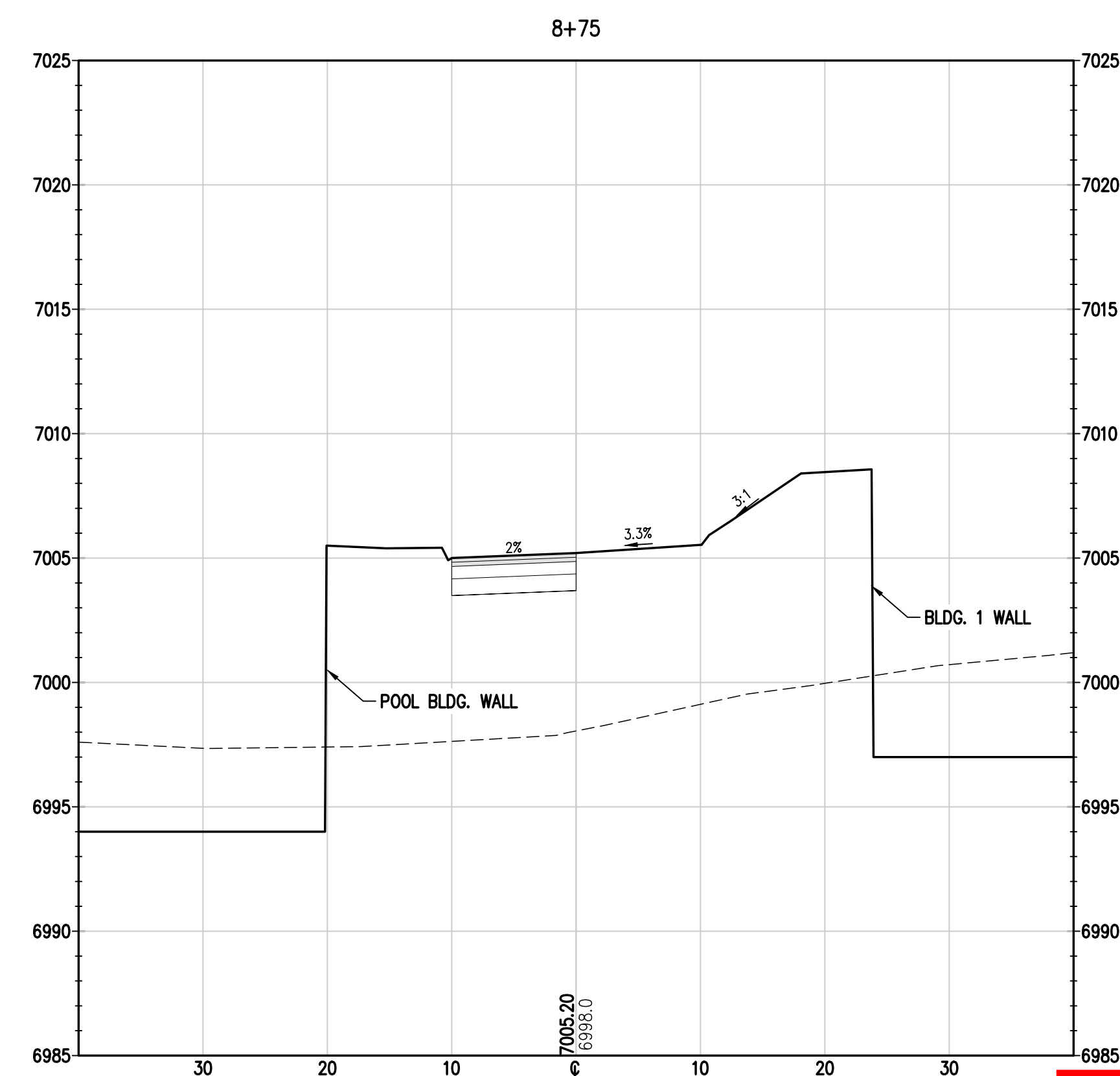
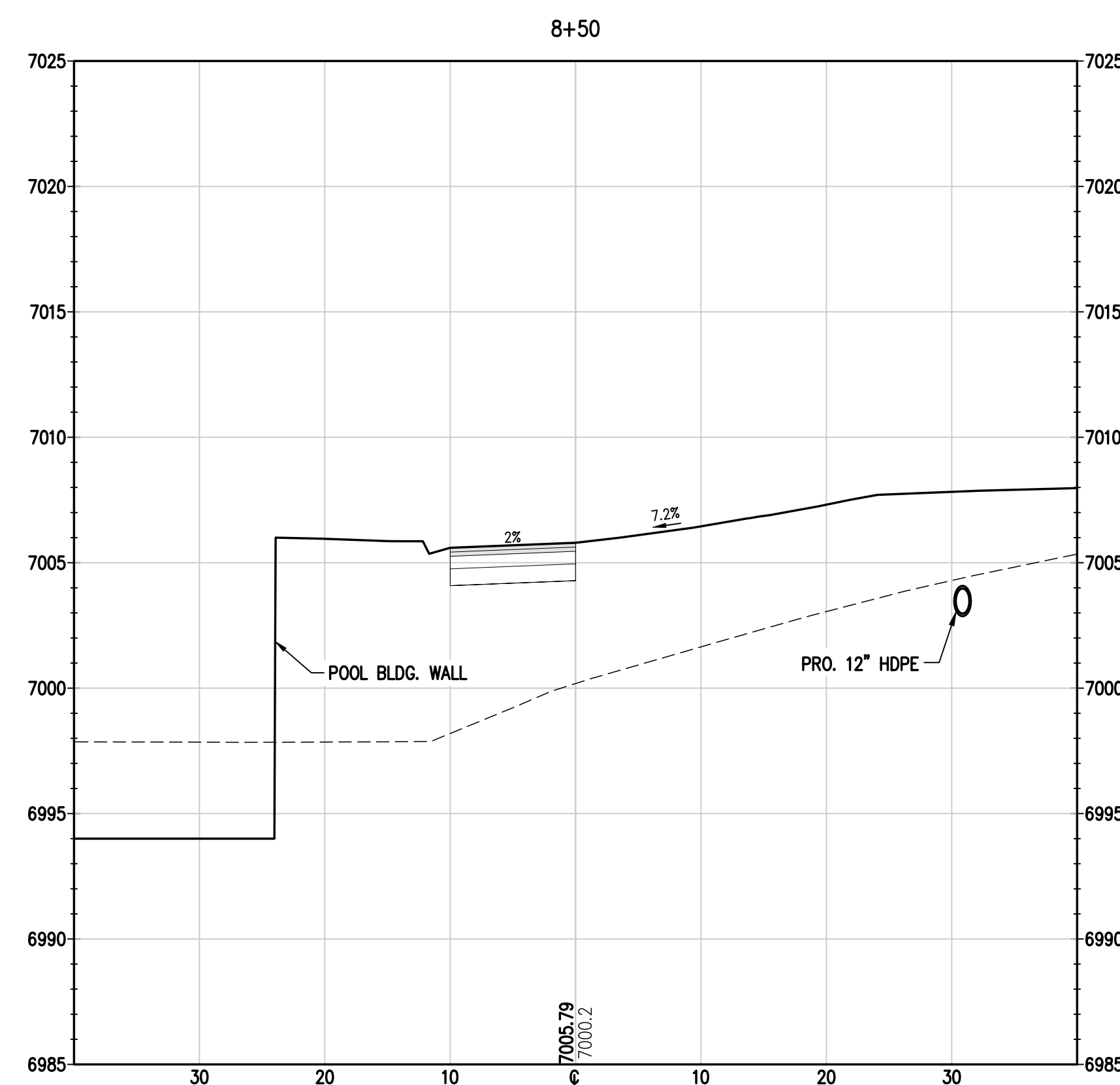
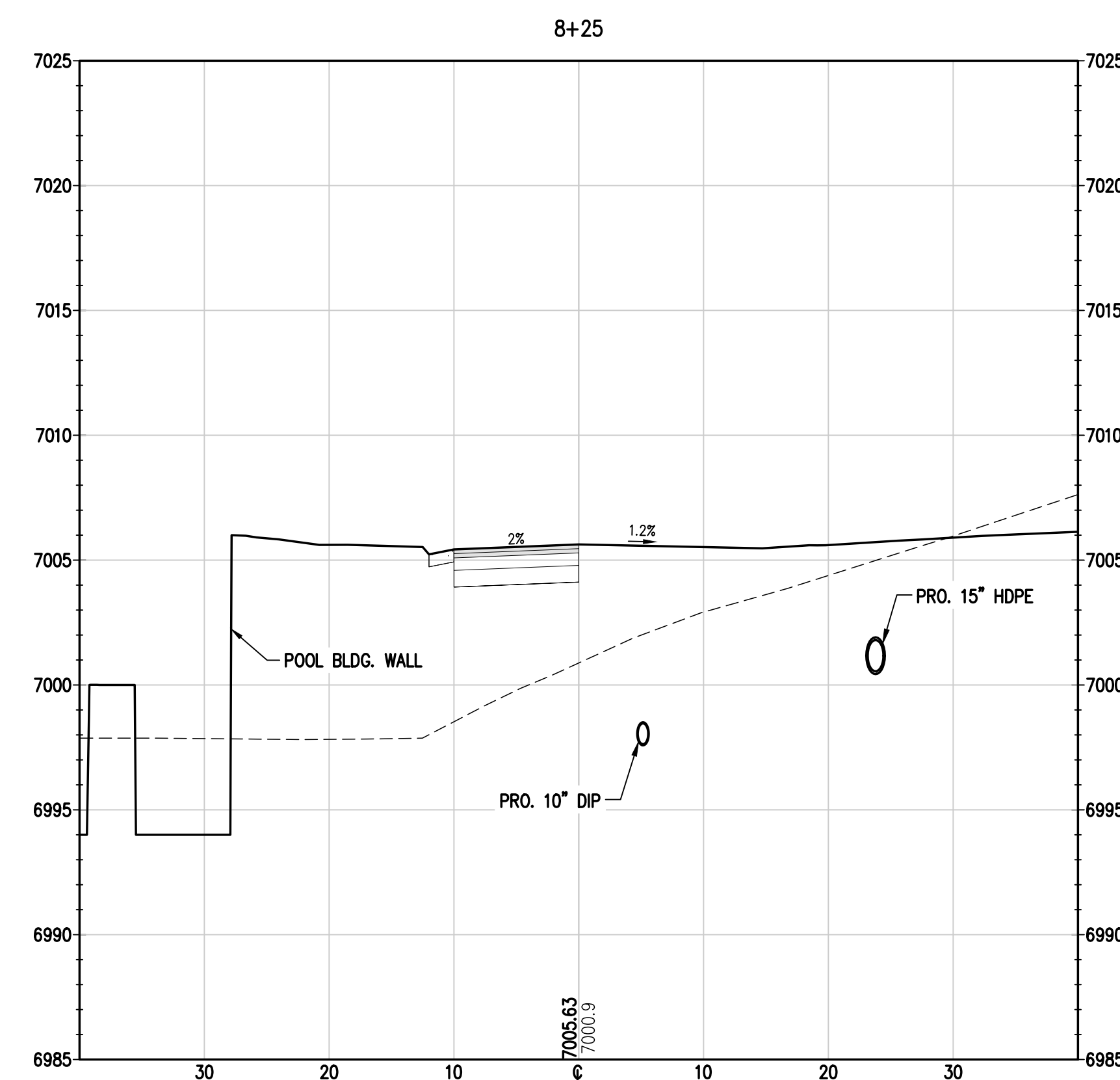
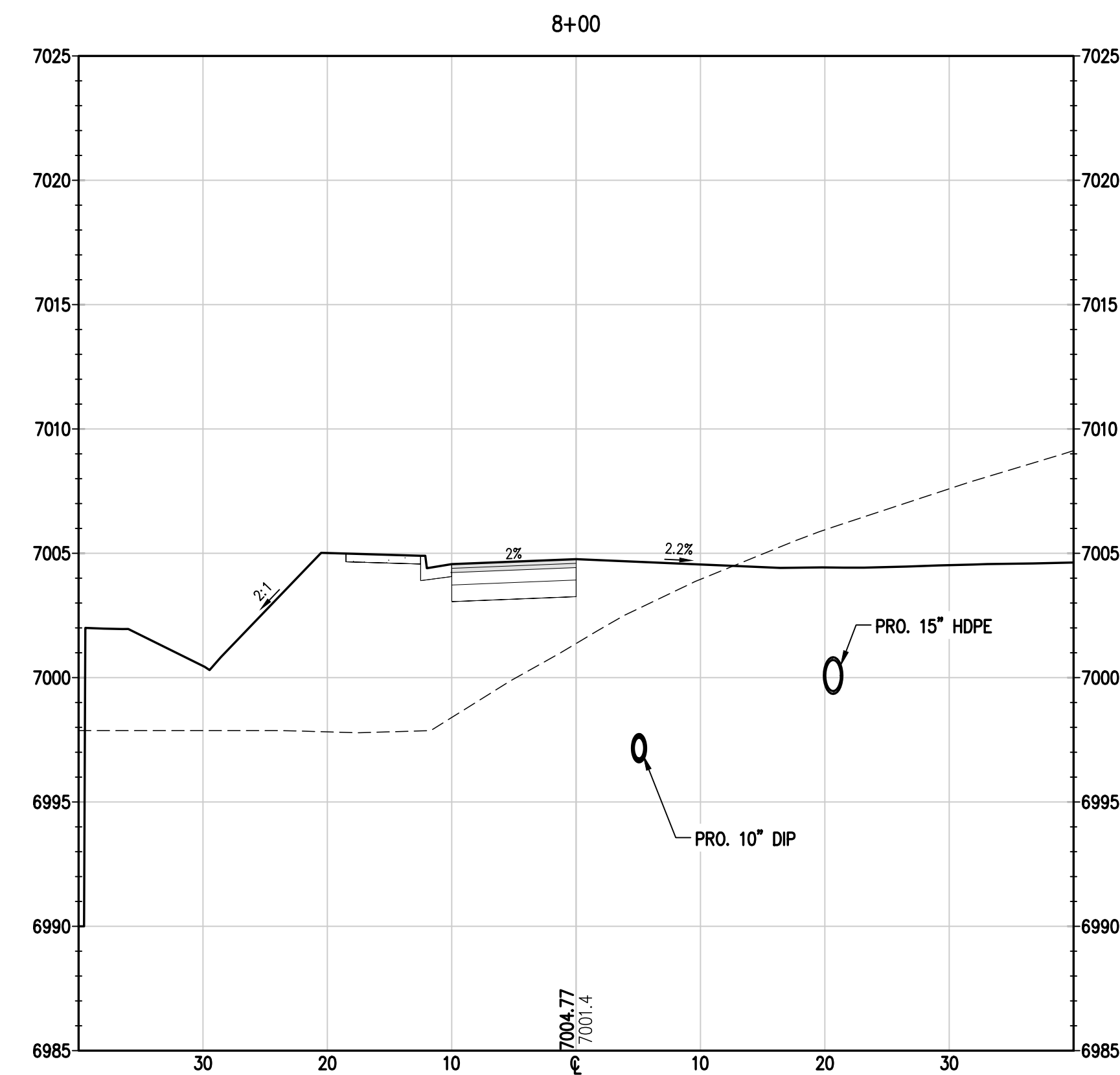
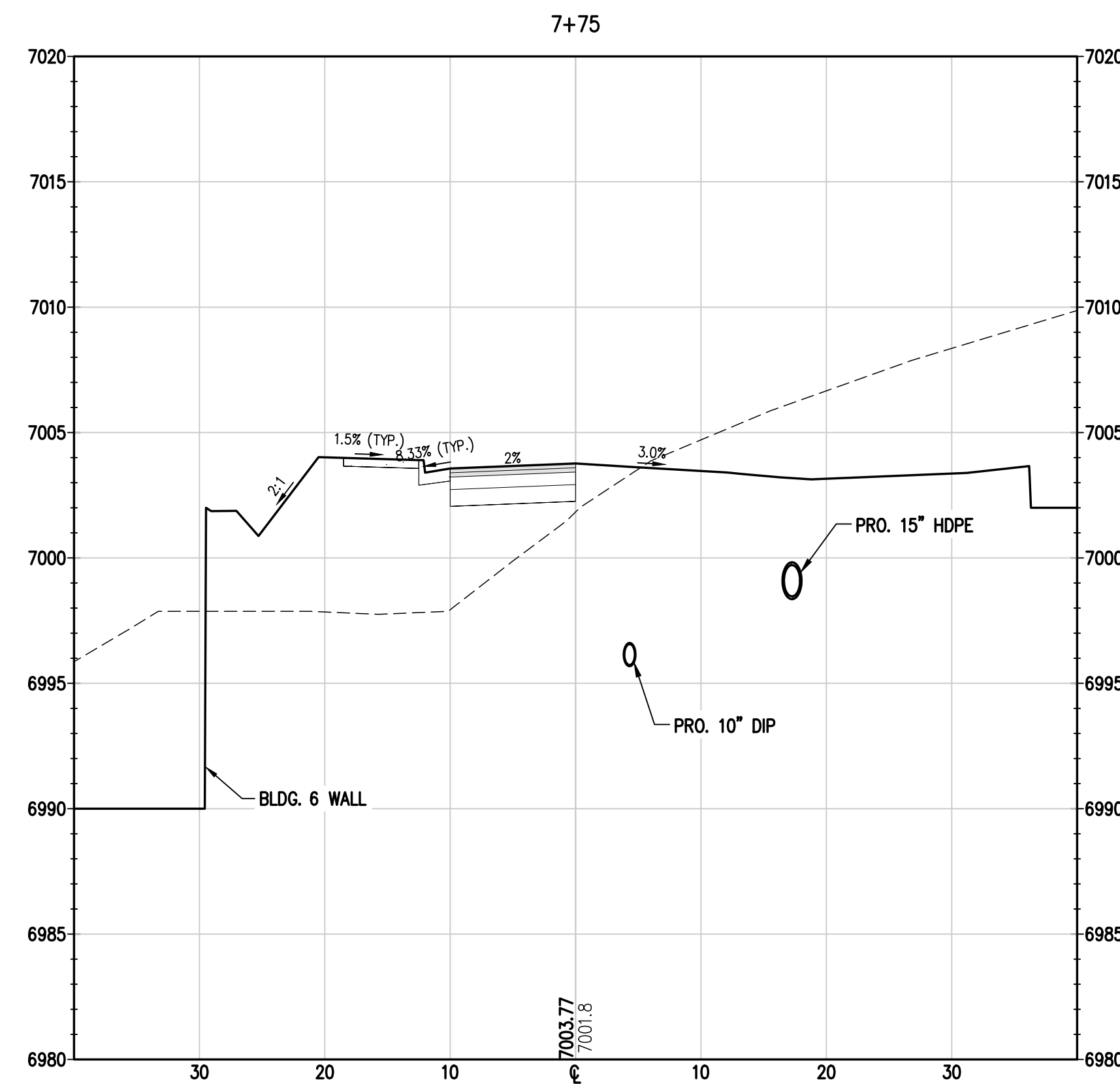
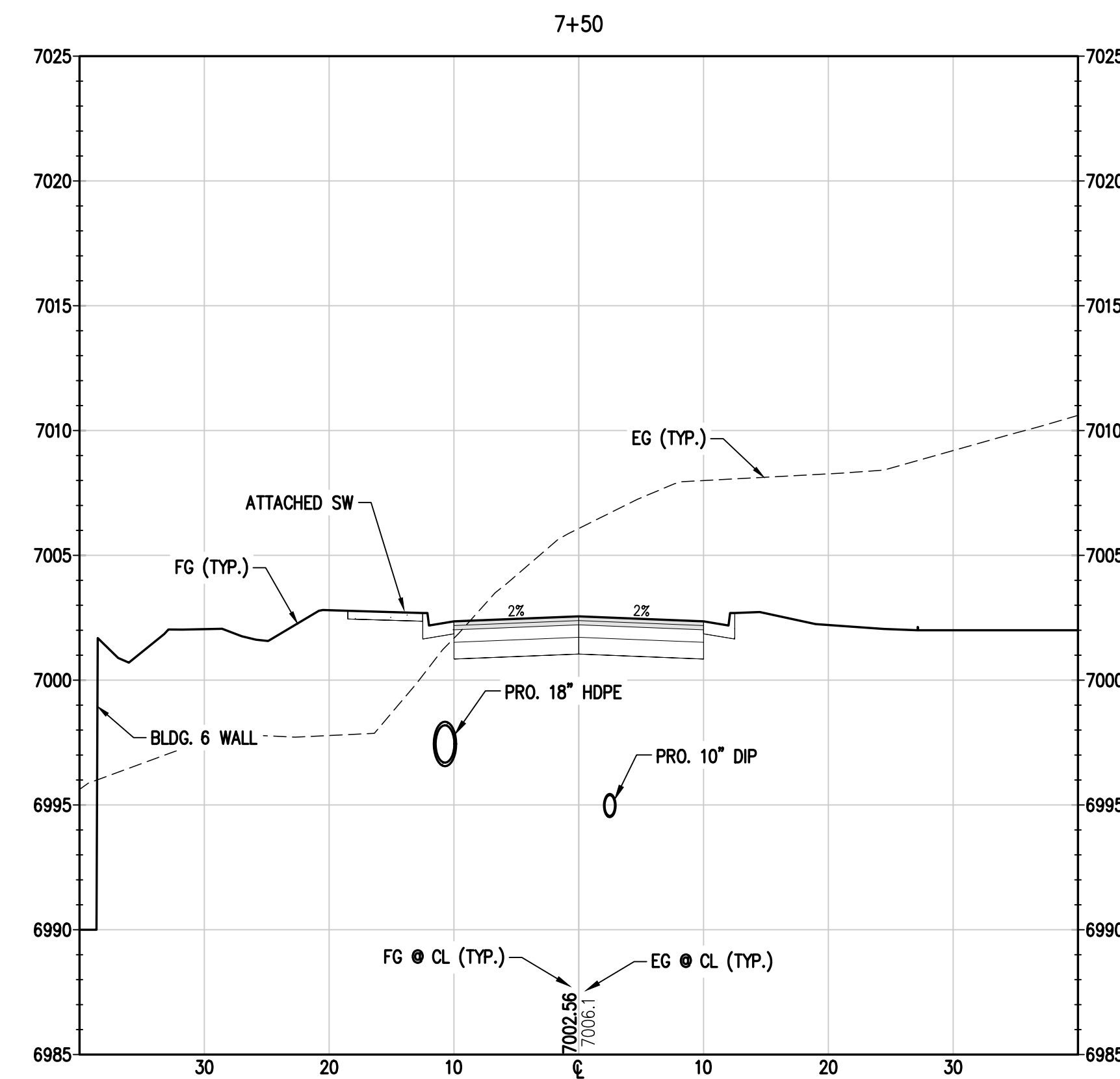
SURVEY DATE 06/03/22

JOB NO. C020235

DRAWING NAME CROSS SECTIONS V

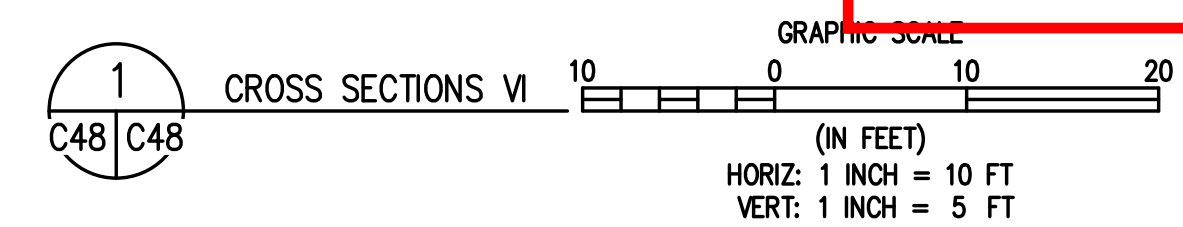
SHEET 47 OF 64

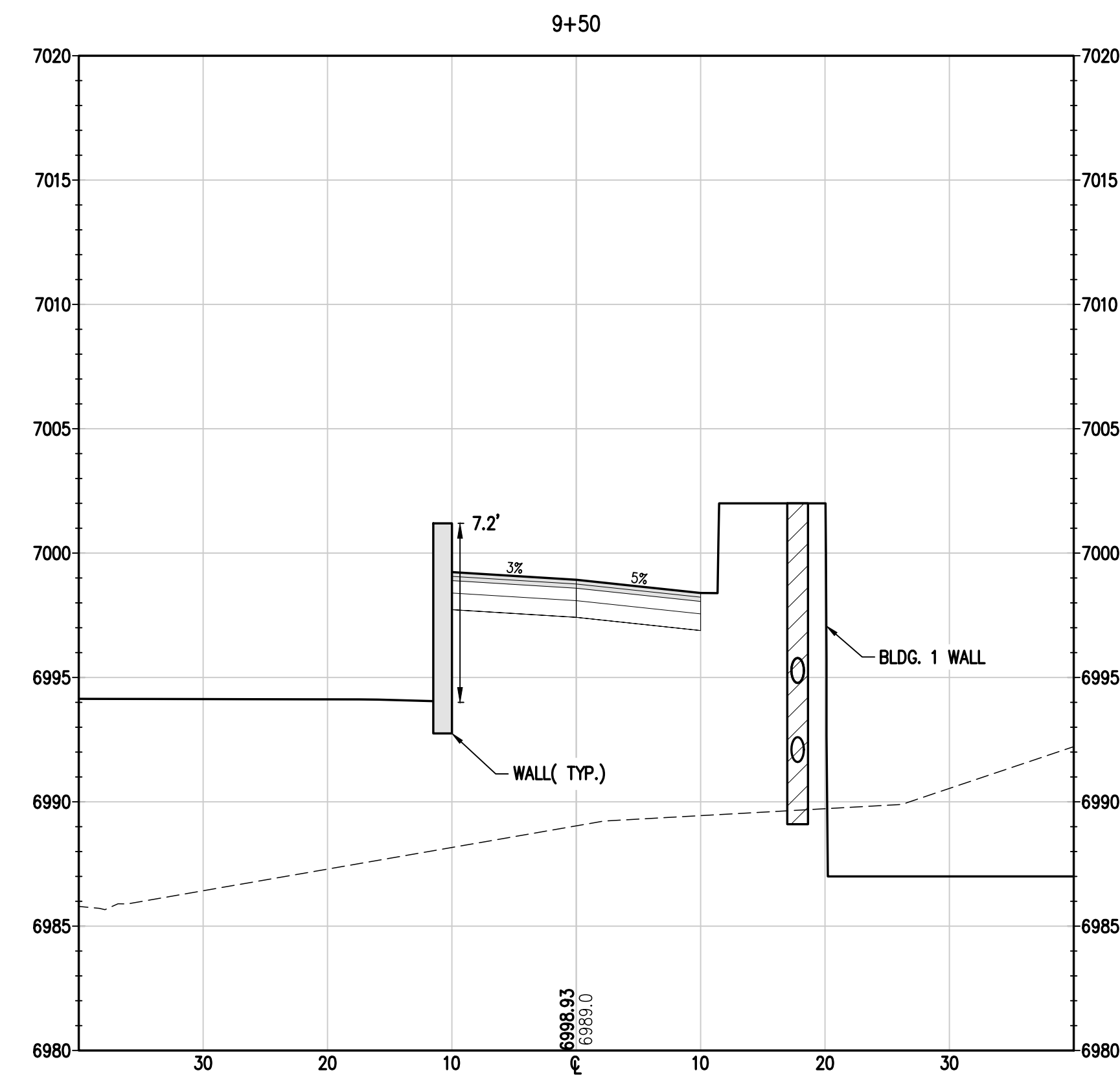
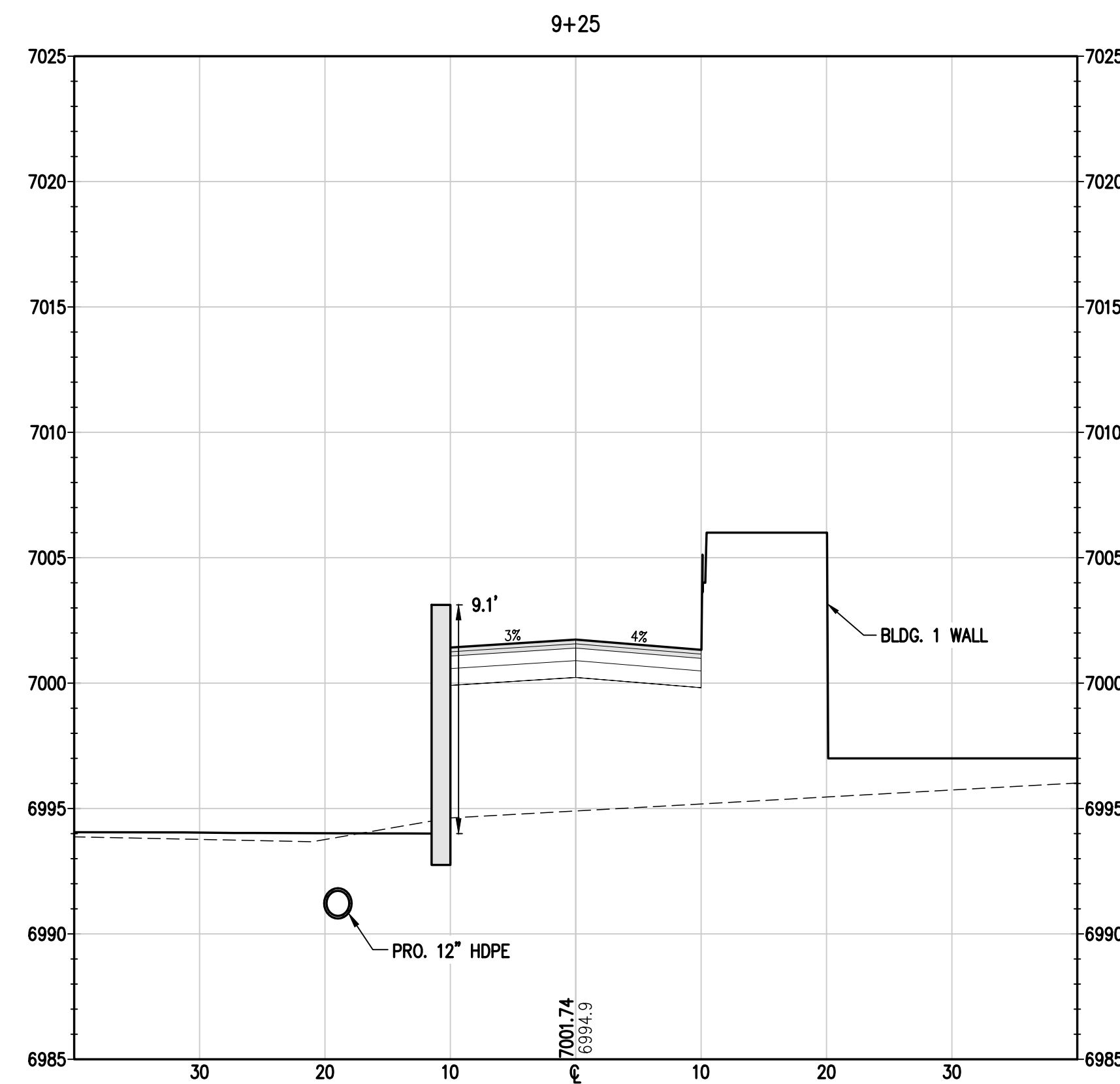
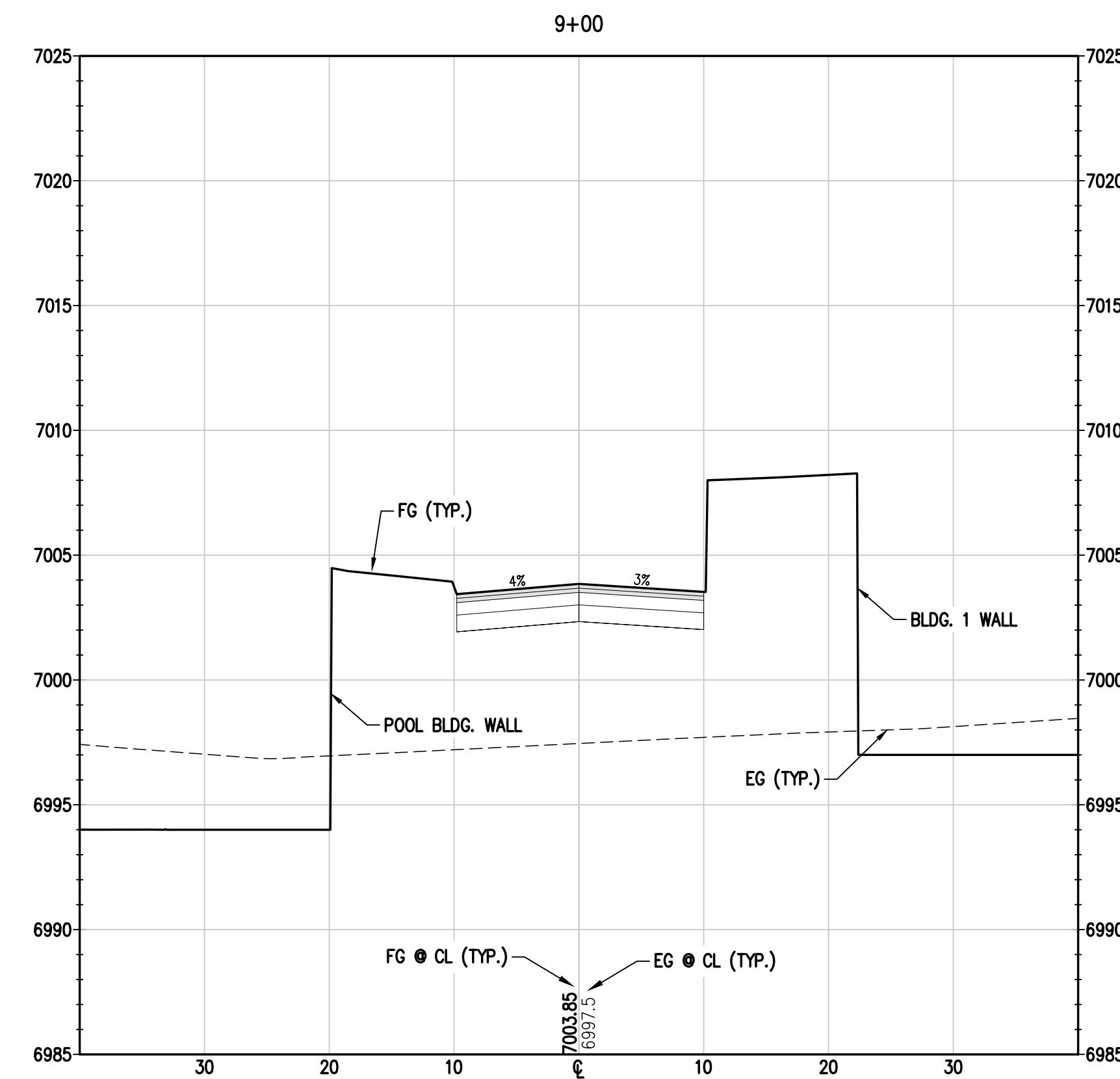
C47



NOTE: DRY UTILITIES NOT
SHOWN IN CROSS SECTIONS FOR
CLARITY. RE: UTILITY PLANS

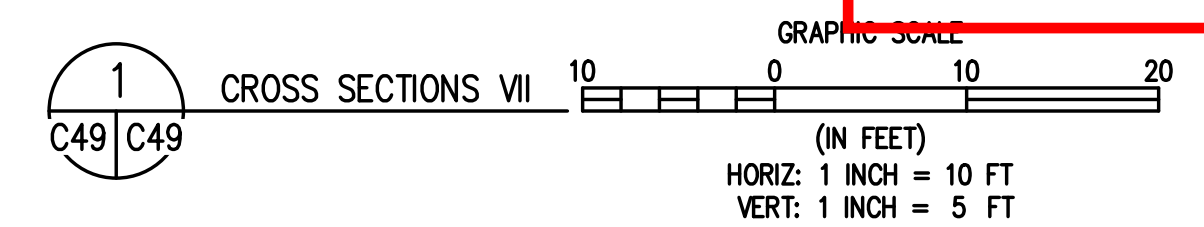
**REVIEWED
FOR
CODE
COMPLIANCE**
04/01/2025





NOTE: DRY UTILITIES NOT
SHOWN IN CROSS SECTIONS FOR
CLARITY. RE: UTILITY PLANS

**REVIEWED
FOR
CODE
COMPLIANCE**
04/01/2025

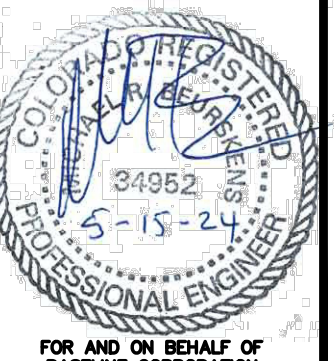


STEAMBOAT ESQUIAR LP

THE ASTRID
2410 SKI TRAIL LANE
CROSS SECTIONS VII

CITY OF STEAMBOAT SPRINGS

UNDER THE DIRECT
SUPERVISION OF



FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL	2/29/2024
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DRAWING SIZE	24" X 36"
SURVEY FIRM	SURVEY DATE

SURVEY FIRM	SURVEY DATE
LANDMARK, INC	06/03/22
SEE ME	00000000

DB NO.	C020235
DRAWING NAME	

CROSS SECTIONS VII

9 of 64

C49

DESIGNED BY SMB	DRAWN BY TJM	CHECKED BY MRB
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DATE
/29/2024
/15/2024

SMB
SMB

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NEW					

FOR CITY F

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AL SUBMITT
COMMENT S

F	III	C					
	COUNTY						

ROUTT

LP

QUILA
RID
LANE
S VII

WHAT IS THE ASSESSMENT OF SKI TRAIL CROSS SECT

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S

OF STEADY-STATE

PREPARED UNDER THE DIRECT
SUPERVISION OF

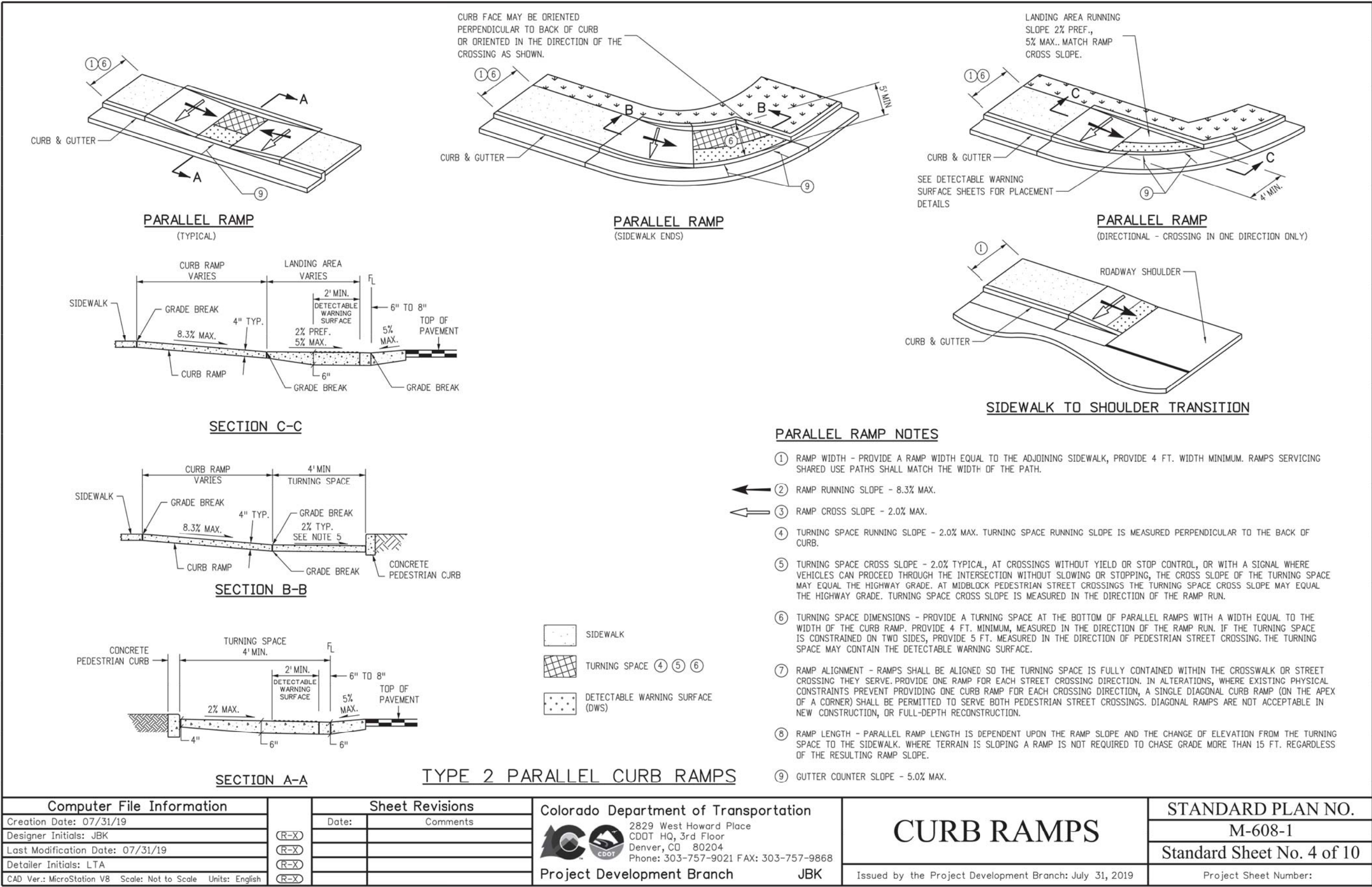
34952

FOR AND ON BEHALF OF
BASELINE CORPORATION

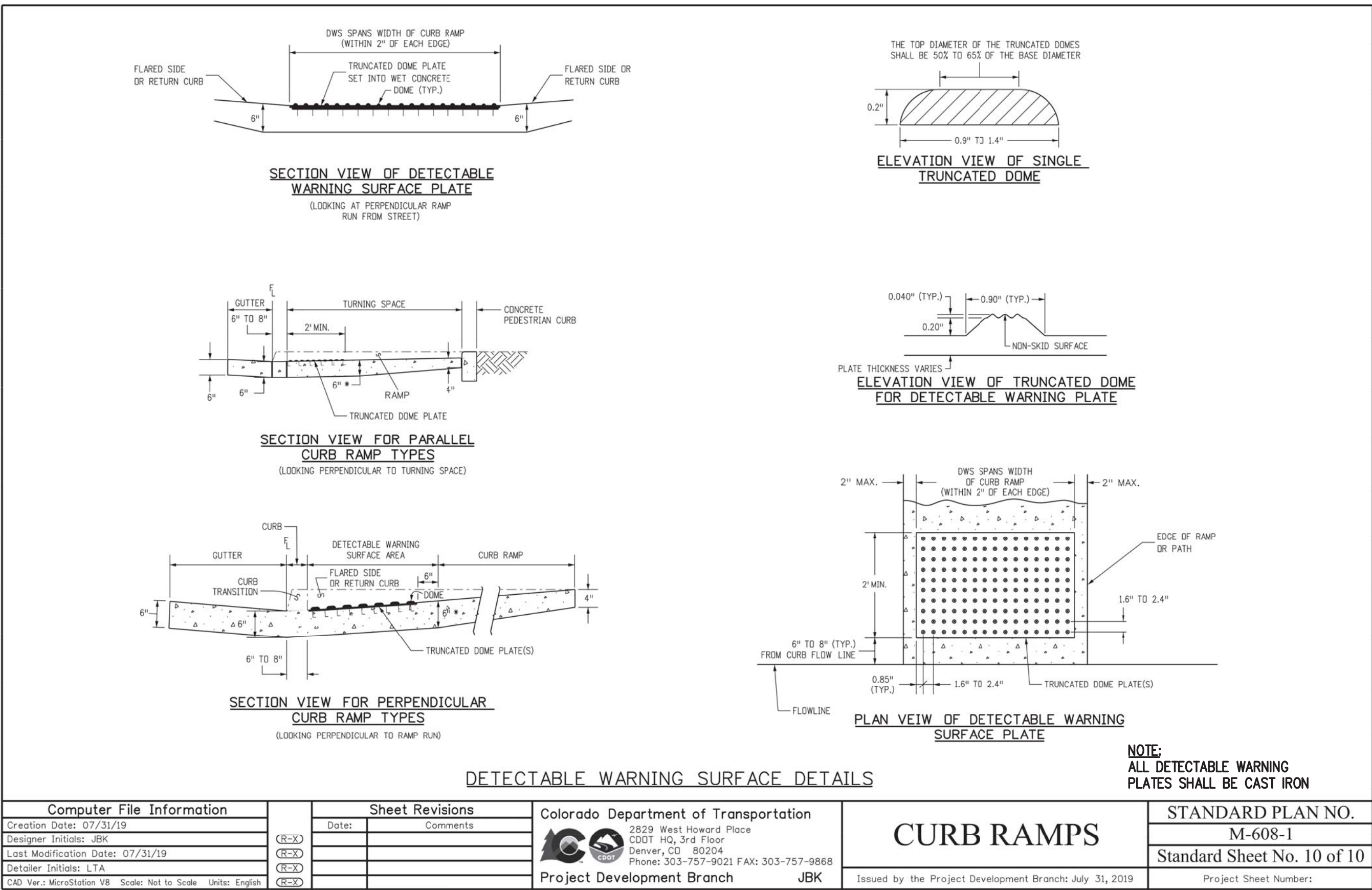
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LANDMARK, INC	06/03/22
OB NO.	C020235

SHEET 49 OF 64

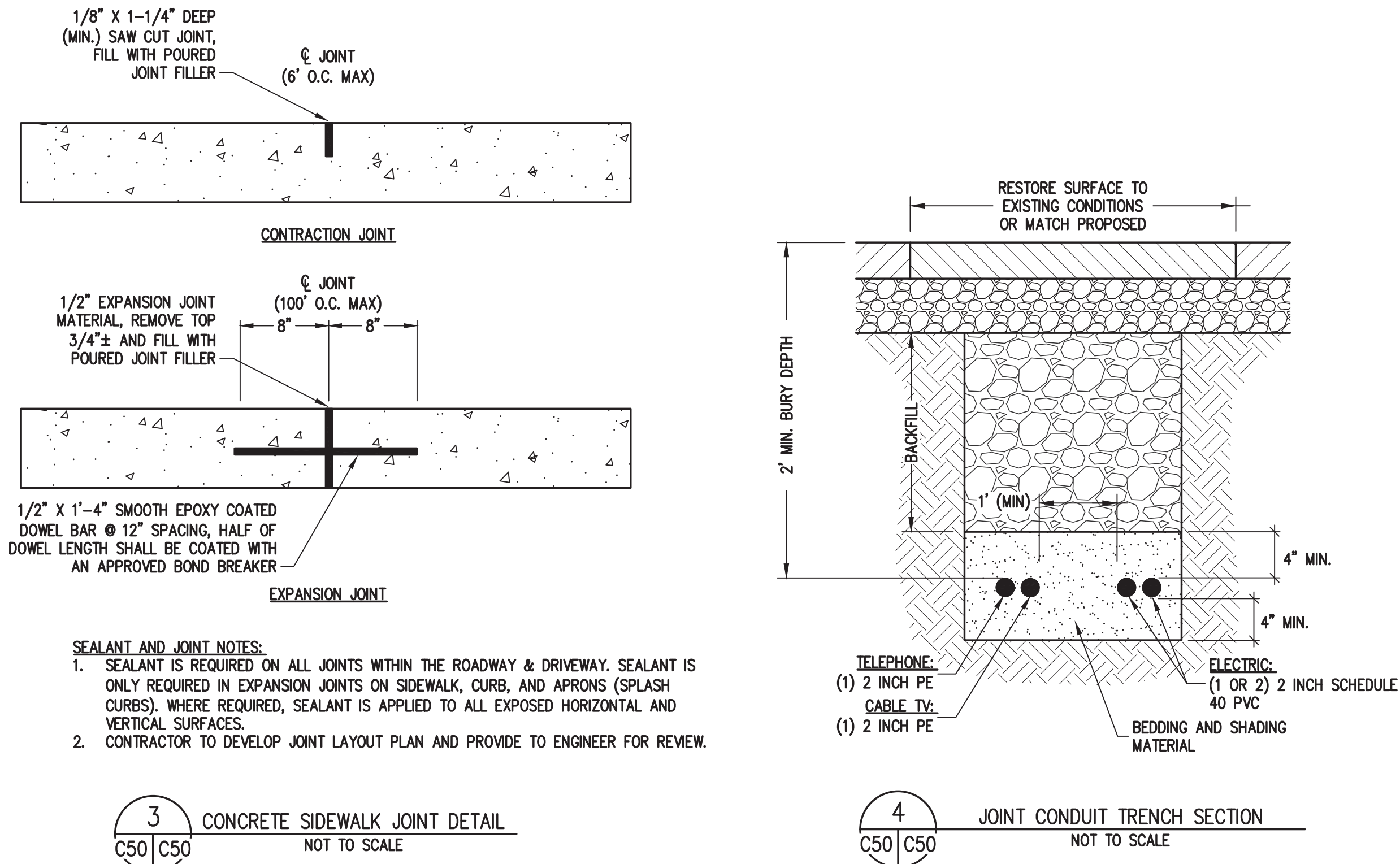
C49



1 CURBS RAMPS
C50 C50



2 CURBS RAMPS
C50 C50



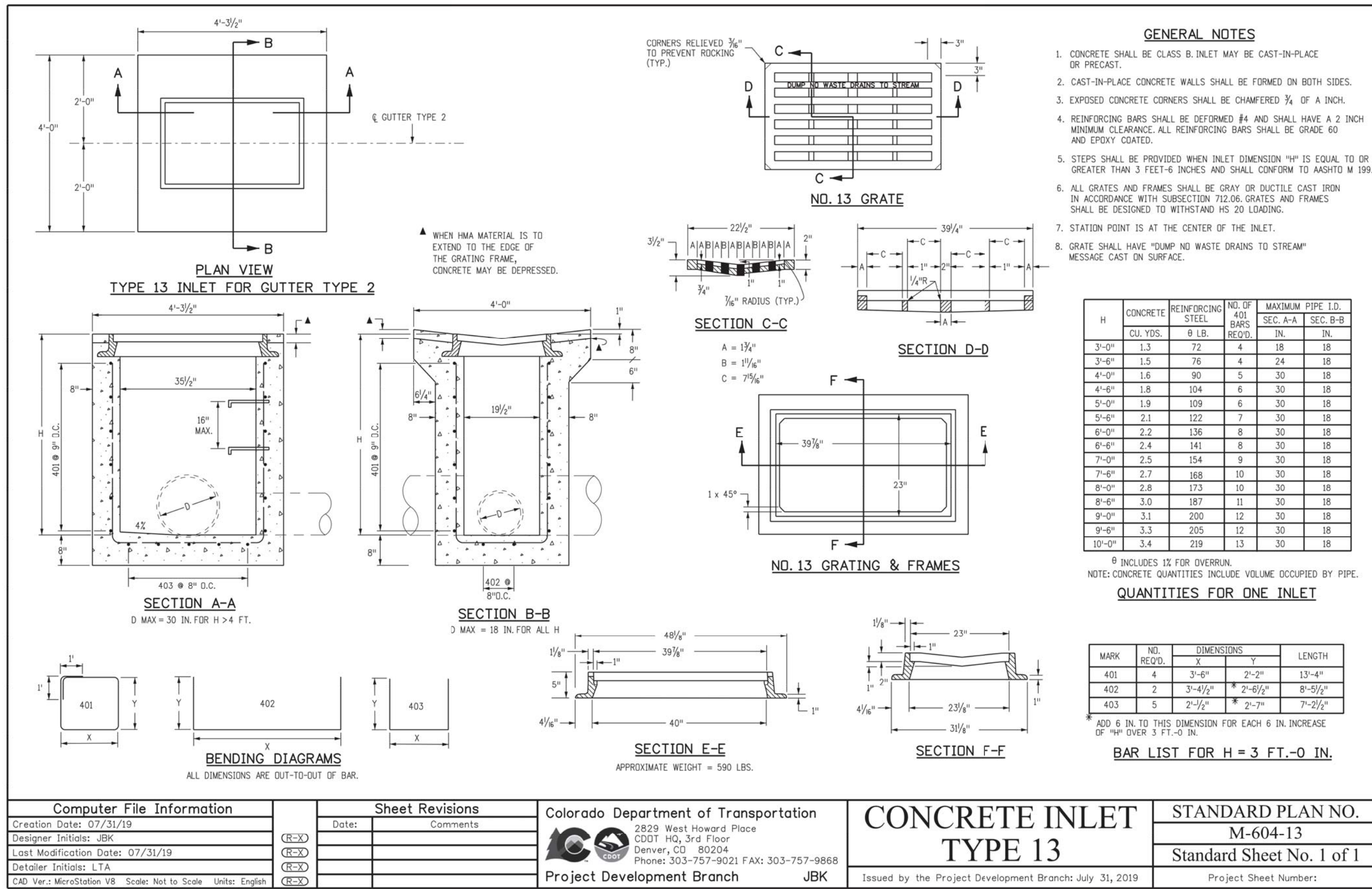
3 CONCRETE SIDEWALK JOINT DETAIL
C50 C50 NOT TO SCALE

4 JOINT CONDUIT TRENCH SECTION
C50 C50 NOT TO SCALE

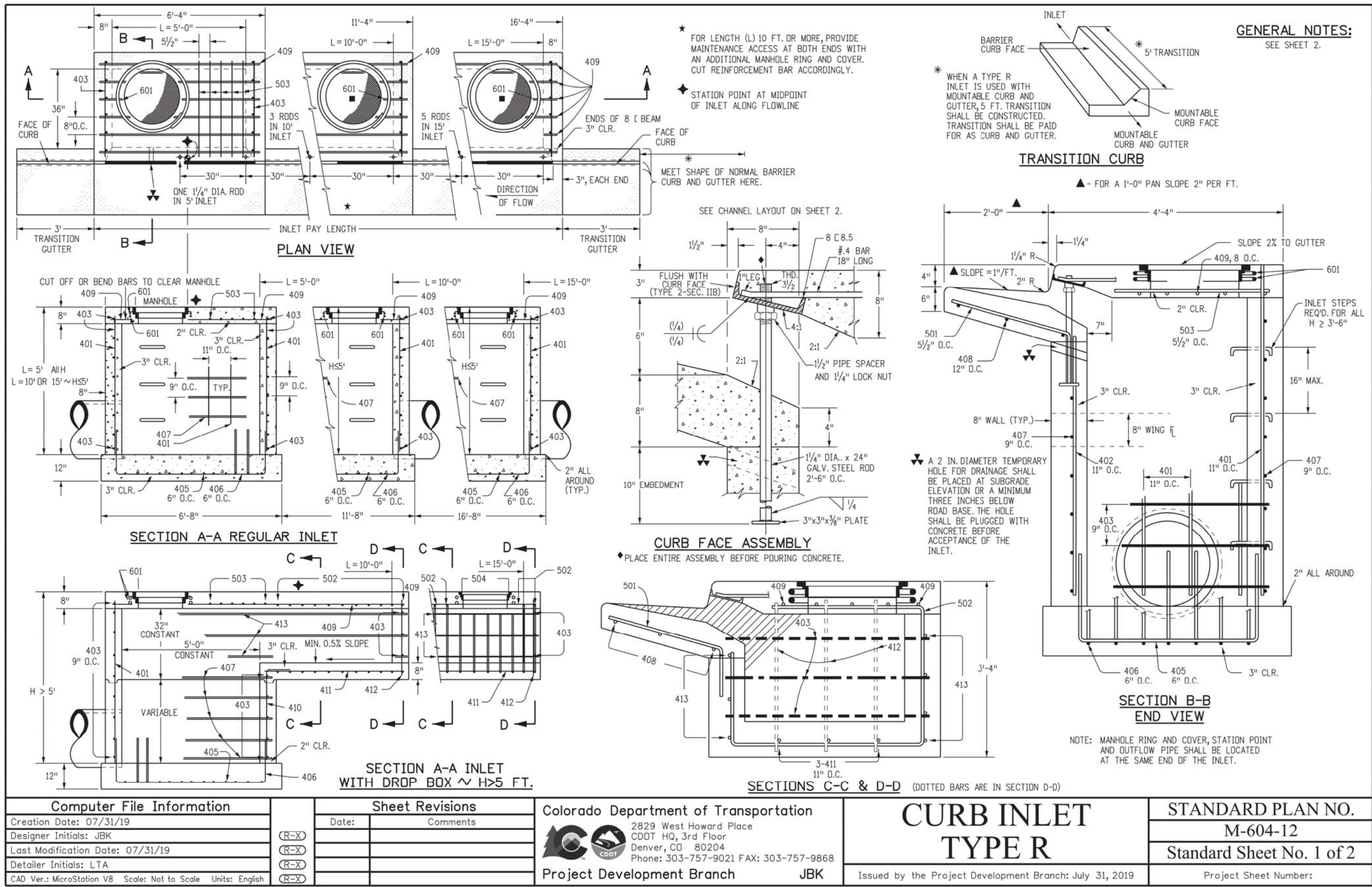
CONDUIT NOTES:

- CONDUIT TO BE INSTALLED VIA TRENCHING
- LOW FRICTION, POLYETHYLENE JACKETED POLYETHYLENE PULL ROPE WITH 1800 PSI TENSILE STRENGTH SHALL BE INSTALLED IN EACH CONDUIT.
- THE MAXIMUM ALLOWED DIRECTION CHANGE BETWEEN PULL BOXES IS 180 DEGREES.
- MINIMUM BENDING RADIUS SHALL BE 3 FEET.
- SURFACE MATERIALS SHALL BE RESTORED TO EXISTING CONDITIONS.
- THE CONDUITS SHALL HAVE A MINIMUM HORIZONTAL SEPARATION OF 2 FEET FROM EXISTING UTILITIES & RIGHT-OF-WAY.
- REFER TO UTILITY PLAN FOR MORE DETAILS.

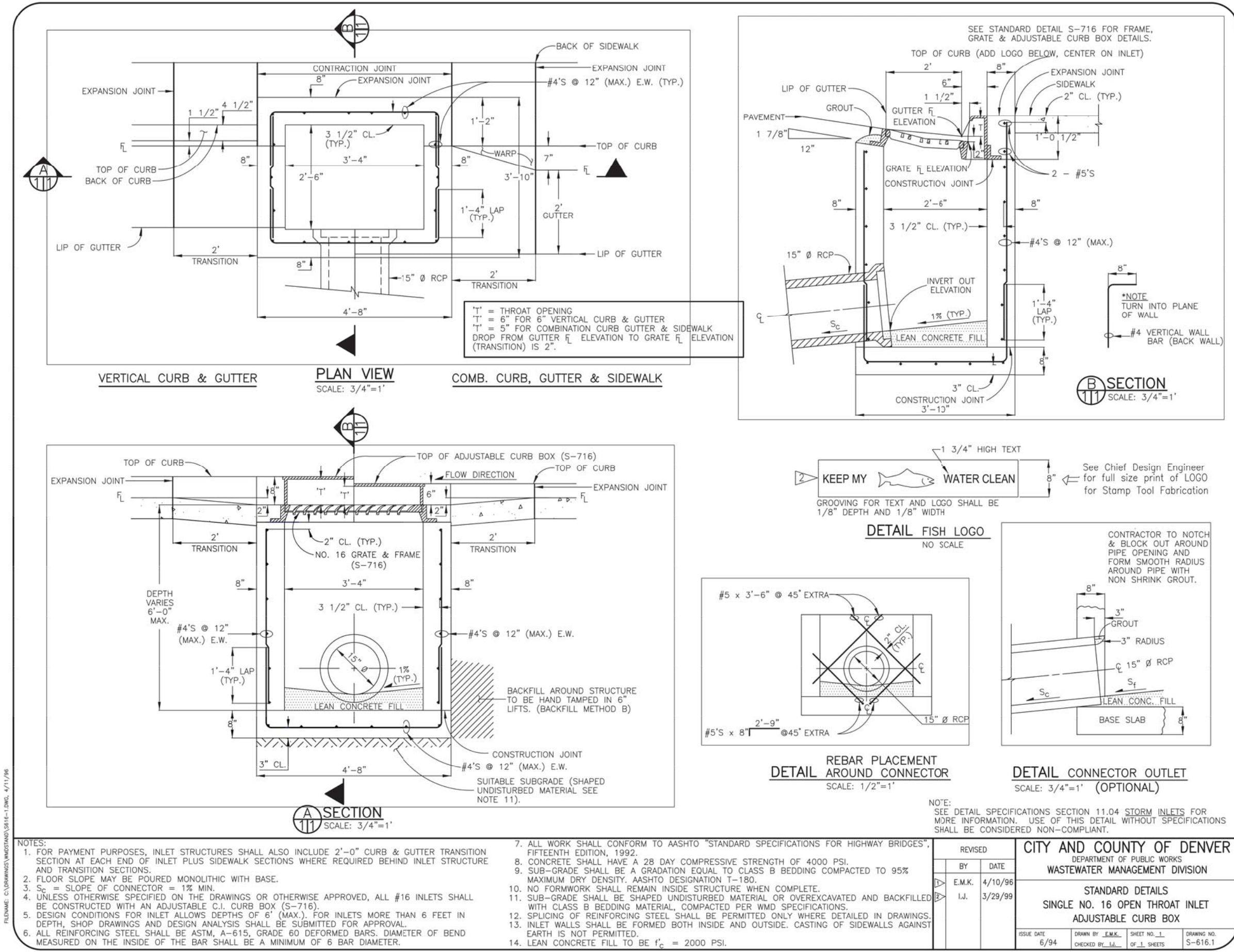
REVIEWED FOR CODE COMPLIANCE
04/01/2025



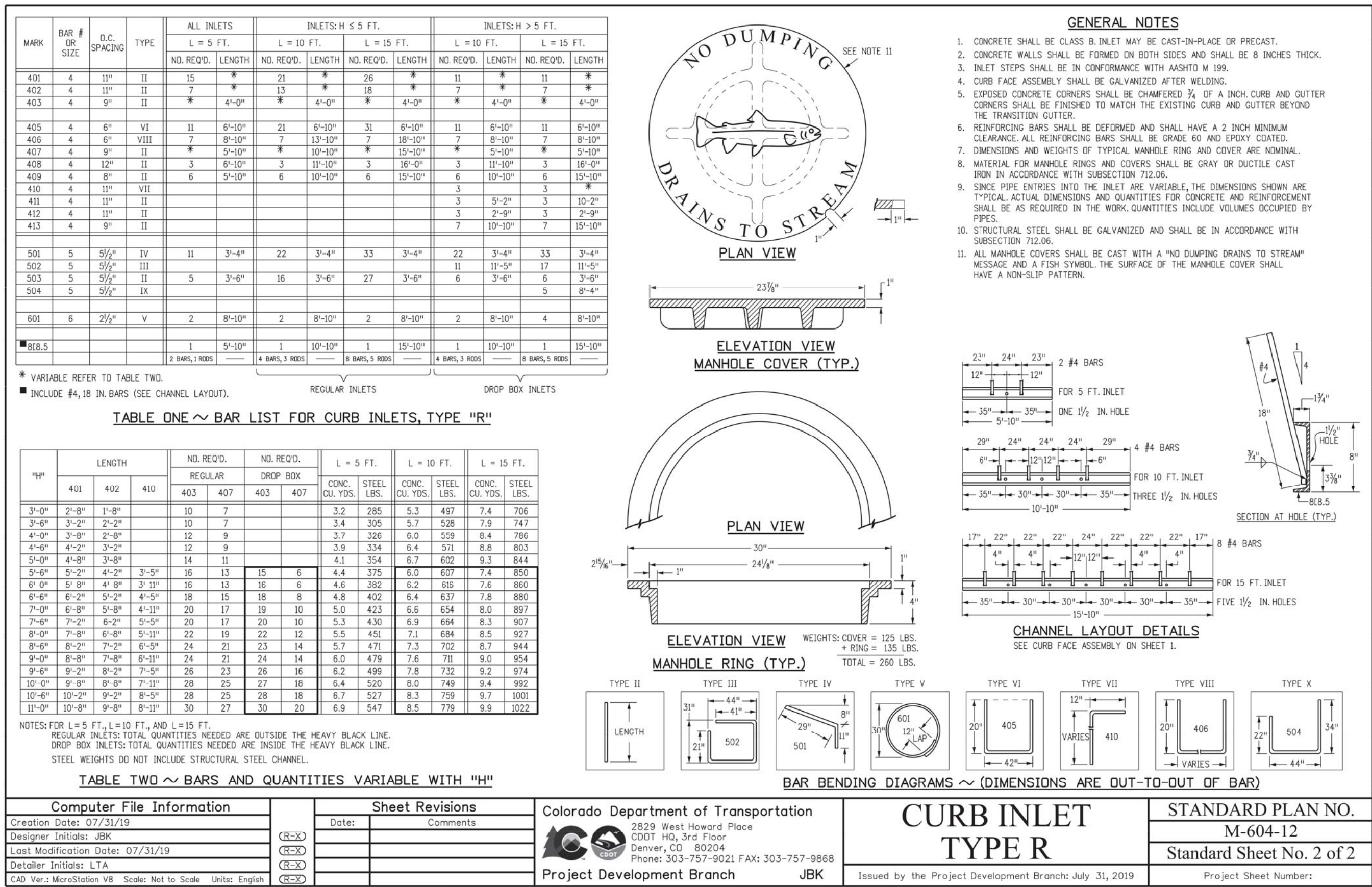
5 TYPE 13 INLET STANDARD DETAIL
C50 C50 NOT TO SCALE



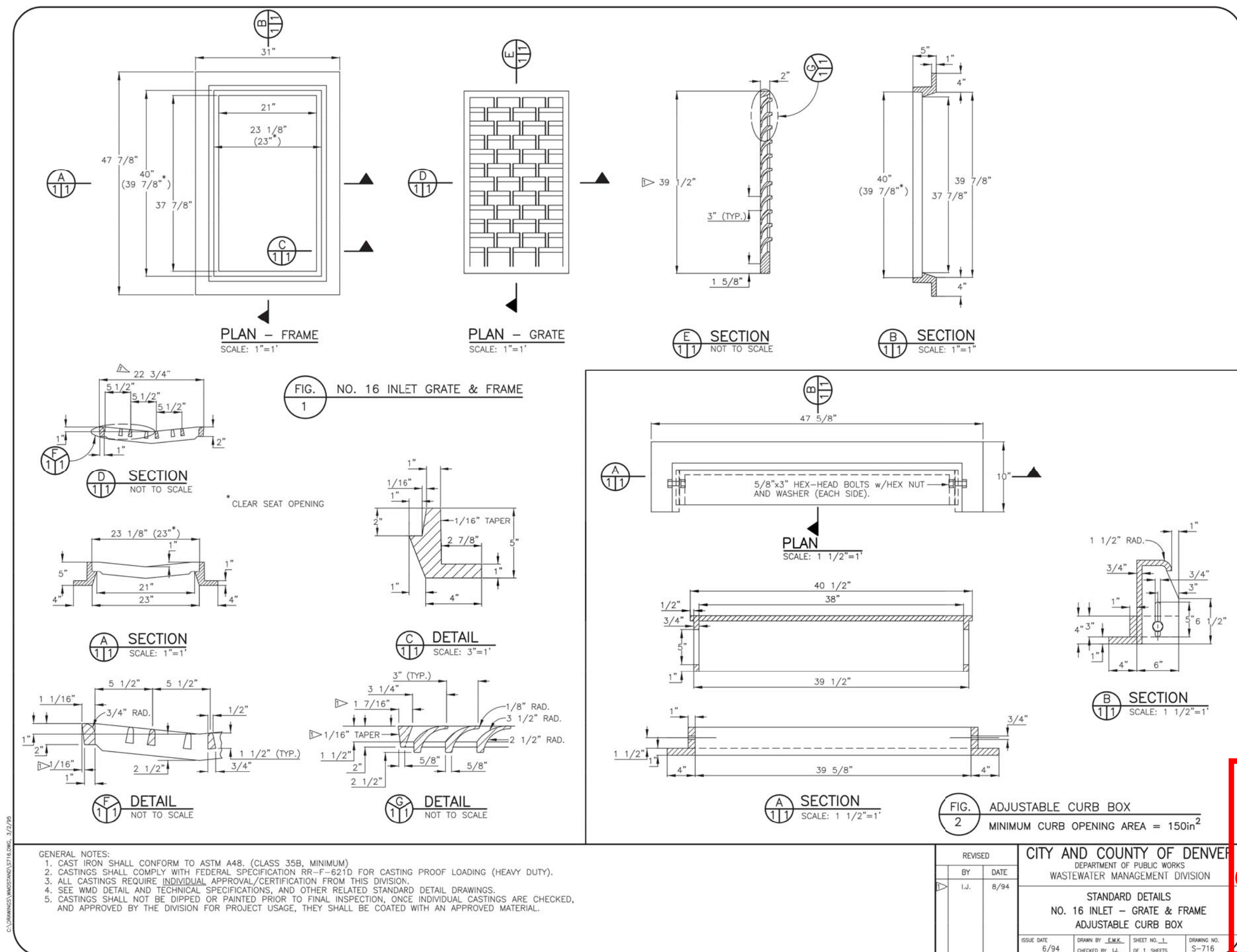
1 TYPE R INLET STANDARD DETAIL



3 TYPE 16 COMBO CURB INLET STANDARD DETAIL



2 TYPE R INLET STANDARD DETAIL



4 TYPE 16 FRAME & GRATE STANDARD DETAIL

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SMB	2/29/2024	SMB	2/29/2024	INITIAL SUBMITTAL FOR CITY REVIEW
TJM	5/15/2024	SMB	5/15/2024	CITY COMMENTS
MRB				

CITY OF STEAMBOAT SPRINGS

THE ASTRID
2410 SKI TRAIL LANE
SITE DETAILS II

REVIEWED FOR CODE COMPLIANCE
04/01/2025

FOR AND ON BEHALF OF
BASELINE CORPORATION

34952
5-15-24

PREPARED UNDER THE DIRECT SUPERVISION OF

FOR THE CITY OF STEAMBOAT SPRINGS

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC.

LANDMARK, INC. 06/03/22

JOB NO. C020235

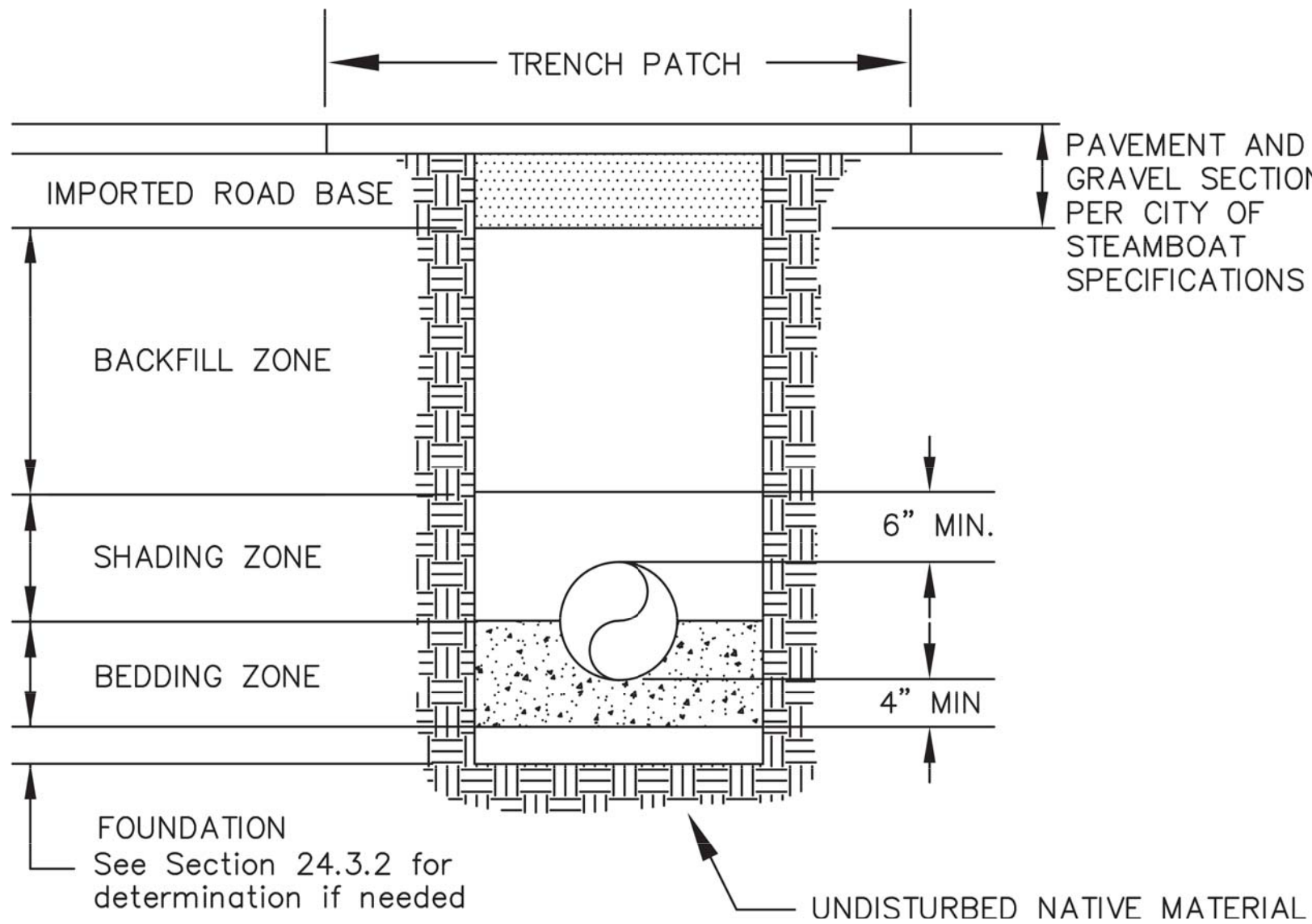
DRAWING NAME SITE DETAILS II

SHEET 51 OF 64

C51



O:\020235 Astrid-Edgemont Ph2\Drawings\Construction Documents\20235 DETAILS-CD.dwg, 5/15/2024 2:53:54 PM, Steve Batchelder



2. Added Pwmt. Sect. Note: 11/08

1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water

P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

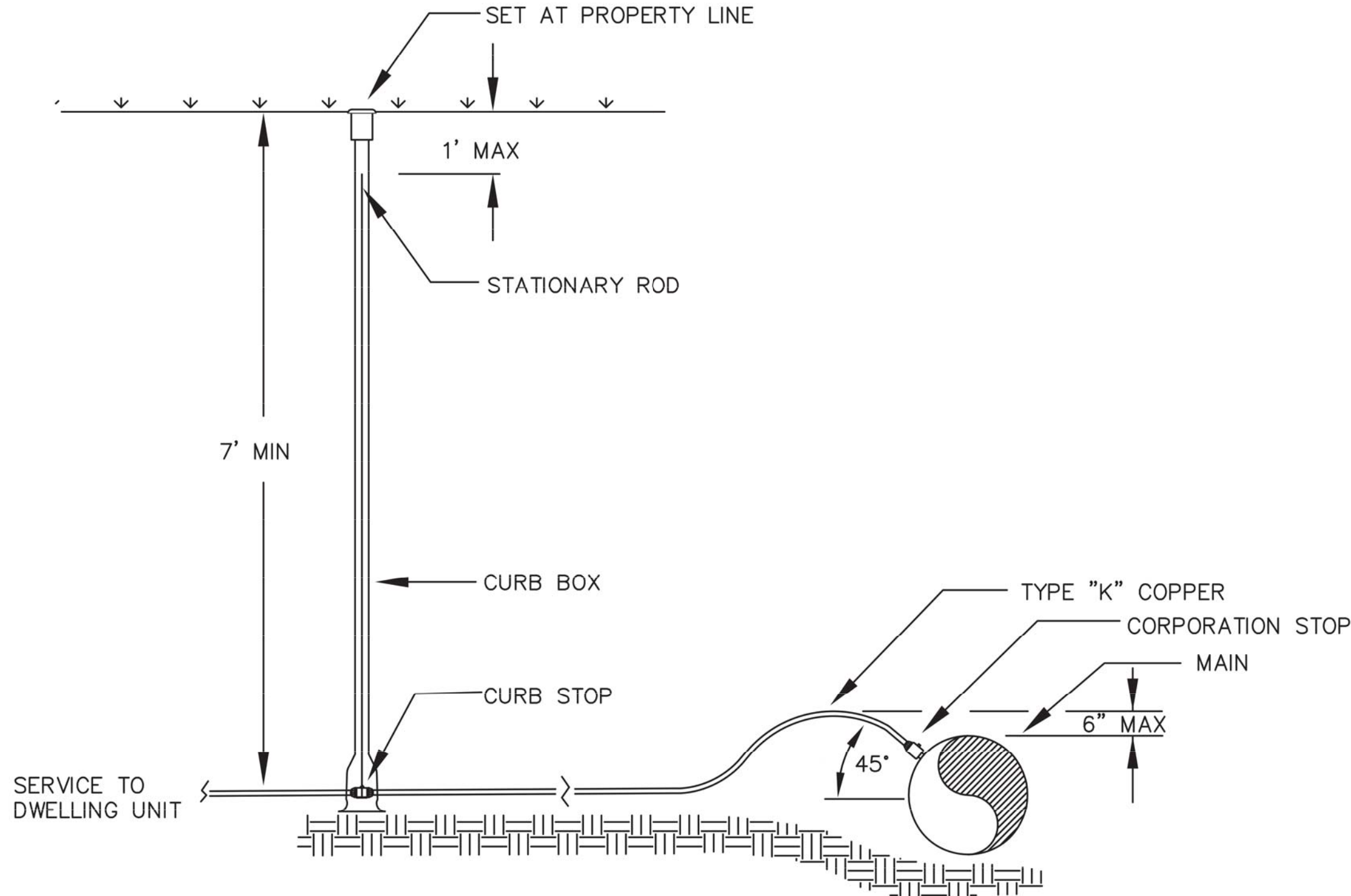
TRENCH CROSS SECTION
AND PIPE EMBEDMENT DETAIL

DRAWN BY: RBS

DATE: 2/2003

SCALE: NONE

SHEET: 1



2. Added Gooseneck Dim.: 11/08

1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water

P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

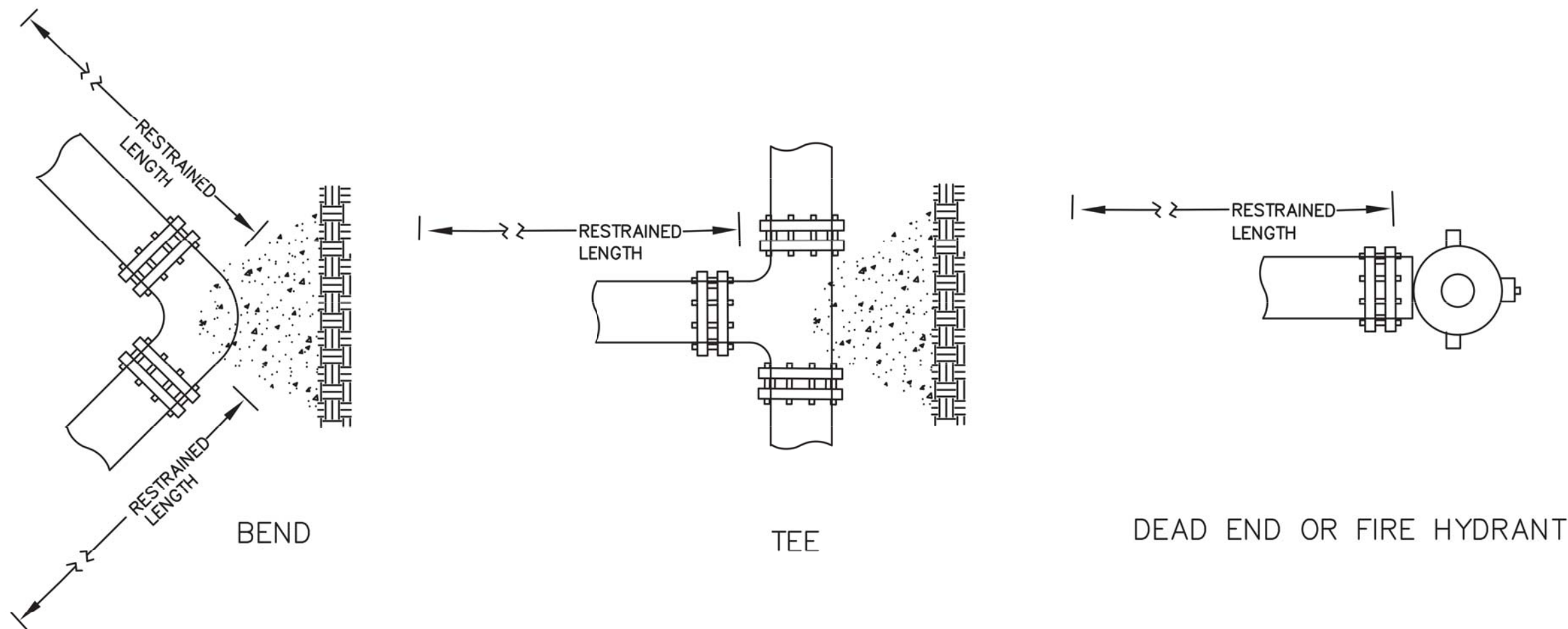
SERVICE LINE
DETAIL

DRAWN BY: RBS

DATE: 2/2003

SCALE: NONE

SHEET: 2



REQUIRED RESTRAINT LENGTH (FT)

FITTING TYPE	MAIN SIZE (INCHES)				
	4"	6"	8"	10"	12"
90° BEND, BRANCH OF TEE OR DEAD END	30'	45'	60'	73'	86'
45° BEND	18'	18'	18'	21'	25'
22 1/2° BEND	18'	18'	18'	18'	18'
11 1/4° BEND	18'	18'	18'	18'	18'

NOTE: THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT.

2. Changed Restraint Lengths: 11/08

1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water

P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

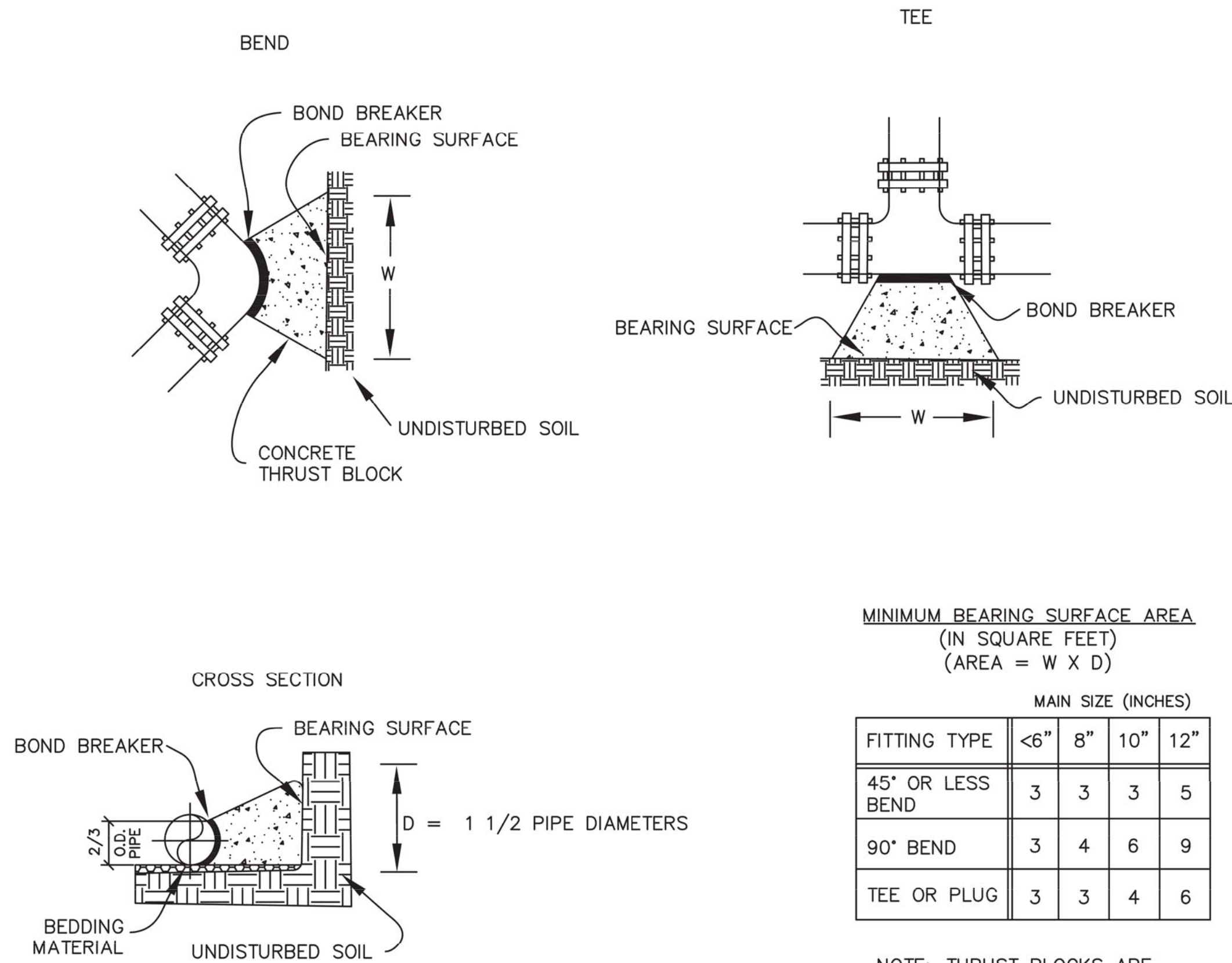
PIPE RESTRAINT
DETAIL

DRAWN BY: RBS

DATE: 2/2003

SCALE: NONE

SHEET: 3



MINIMUM BEARING SURFACE AREA
(IN SQUARE FEET)
(AREA = W X D)

FITTING TYPE	MAIN SIZE (INCHES)			
	<6"	8"	10"	12"
45° OR LESS BEND	3	3	3	5
90° BEND	3	4	6	9
TEE OR PLUG	3	3	4	6

NOTE: THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT.

- NOTES:
- THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINTS.
 - ALL THRUST BLOCKS TO BE SUITABLY FORMED. EARTH EXCAVATED FORMS WILL NOT BE ACCEPTED.
 - WRAP FITTINGS WITH POLYETHYLENE PRIOR TO POURING THRUST BLOCKS SO THAT CONCRETE DOES NOT COME IN CONTACT WITH JOINT BOLTS.
 - THRUST BLOCKS SHALL BE INSTALLED SO THAT ALL JOINTS ARE ACCESSIBLE.

REVIEWED
FOR
CODE
COMPLIANCE
04/01/2025

2. Added Notes: 11/08

1. Changed Company Name 1/00

REVISION HISTORY:

Mount Werner Water

P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

THRUST BLOCK
DETAIL

DRAWN BY: RBS

DATE: 2/2003

SCALE: NONE

SHEET: 4

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DESIGNED BY

SMB

DATE

2/29/2024

PREPARED BY

SMB

5/15/2024

INITIAL SUBMITTAL FOR CITY REVIEW

CITY COMMENTS

REVISION DESCRIPTION

ROUT COUNTY

STEAMBOAT ESQUIAR LP

THE ASTRID

2410 SKI TRAIL LANE

WWW DETAILS I

CITY OF STEAMBOAT SPRINGS

FOR AND ON BEHALF OF
BASELINE CORPORATION

34952

5-15-24

PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL

2/29/2024

DRAWING SIZE

24" X 36"

SURVEY FIRM

LANDMARK, INC

SURVEY DATE

06/03/22

JOB NO.

020235

DRAWING NAME

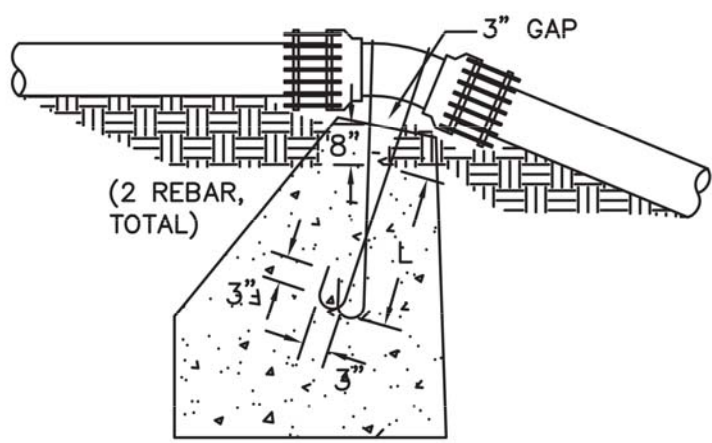
WWW DETAILS I

SHEET

53 OF 64

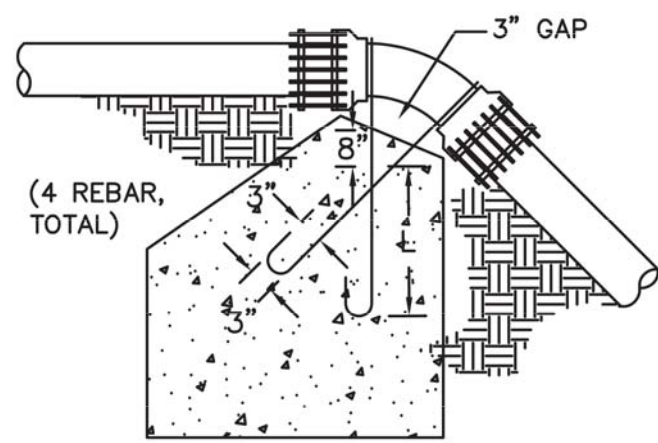
C53

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TYPE A RESTRAINT
11-1/4" & 22-1/2" VERTICAL OVER-BENDS

PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. FT. OF CONC. BLOCKING	DIAMETER OF REBAR, "d" INCH	DEPTH OF RODS IN CONCRETE, "L" FT.
4"	11-1/4"	5	5/8"	1.5
	22-1/2"	10	5/8"	2.0
6"	11-1/4"	11	5/8"	2.0
	22-1/2"	22	5/8"	2.0
8"	11-1/4"	20	5/8"	2.0
	22-1/2"	39	5/8"	2.0
12"	11-1/4"	45	3/4"	2.0
	22-1/2"	88	3/4"	3.0
16"	11-1/4"	79	3/4"	3.0
	22-1/2"	156	3/4"	4.0
20"	11-1/4"	123	3/4"	3.5
	22-1/2"	243	1"	4.0
24"	11-1/4"	177	3/4"	4.0
	22-1/2"	350	1"	4.0
30"	11-1/4"	277	1"	4.0
	22-1/2"	546	1-1/4"	4.0



TYPE B RESTRAINT
45" VERTICAL OVER-BENDS

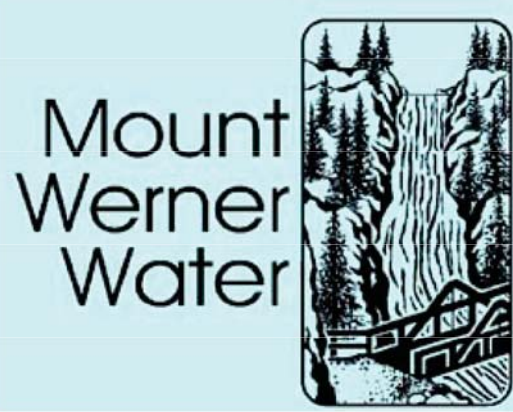
PIPE SIZE NOMINAL DIAMETER - INCH	VERTICAL BEND DEGREES	NO. OF CU. YD. OF CONC. BLOCKING	DIAMETER OF REBAR, "d" INCH	DEPTH OF RODS IN CONCRETE, "L" FT.
4"	45°	0.7	5/8"	2.0
6"	45°	1.5	5/8"	2.5
8"	45°	2.7	5/8"	3.0
12"	45°	6.1	3/4"	4.0
16"	45°	10.9	3/4"	4.0
20"	45°	17.1	1"	4.0
24"	45°	24.6	1"	4.0
30"	45°	38.4	1-1/4"	4.0

NOTES:

- THRUST BLOCKS ARE REQUIRED IN ADDITION TO JOINT RESTRAINT.
- SPECIAL REQUIREMENTS:
 - THRUST BLOCKS FOR PIPE SIZES OR CONFIGURATIONS NOT SHOWN REQUIRE SPECIAL DESIGN.
 - BEARING AREAS, VOLUMES, AND SPECIAL THRUST BLOCKING DETAILS SHOWN ON DRAWINGS TAKE PRECEDENCE OVER THIS TYPICAL DETAIL.
 - REINFORCING STEEL BARS TO BE EPOXY COATED, AT LEAST 15 MILS THICK. MINIMUM YIELD STRENGTH OF REBAR IS 60,000 PSI.
 - RESTRAINT SIZING IS BASED UPON A MAXIMUM OPERATING PRESSURE OF 150 PSI, A TEST PRESSURE OF 200 PSI, AND A MINIMUM SOIL BEARING STRENGTH OF 2000 PSF. OPERATING PRESSURES IN EXCESS OF 150 PSI OR SOILS WITH LESS THAN 2000 PSF BEARING STRENGTH WILL REQUIRE SPECIAL DESIGN.
- FOR VERTICAL UNDER-BEND FOLLOW HORIZONTAL THRUST BLOCK DETAIL

1. Initial Release 3/07

REVISION HISTORY:



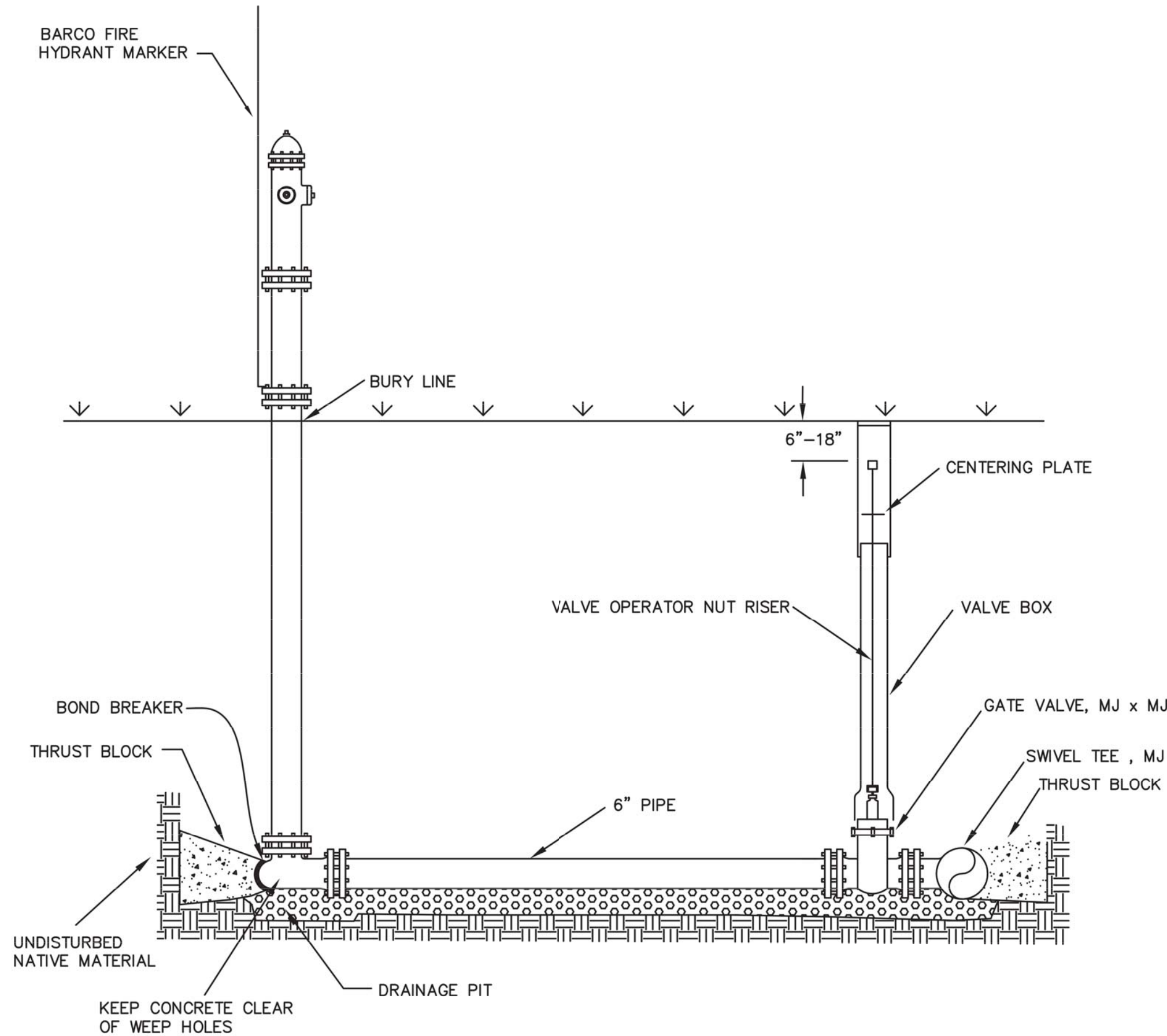
P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

VERTICAL THRUST BLOCK
DETAIL

DRAWN BY: CL, RM DATE:2/2003

SCALE: NONE

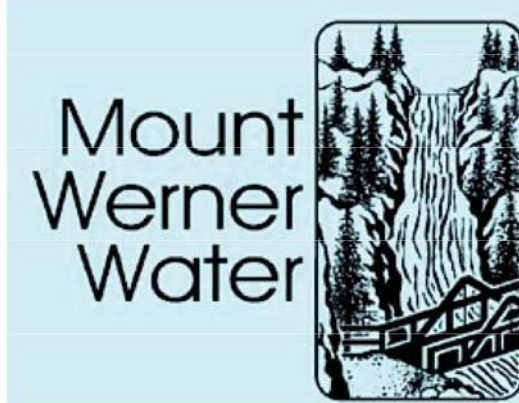
SHEET: 5



2. Added Riser Length: 11/08

1. Changed Company Name 1/00

REVISION HISTORY:



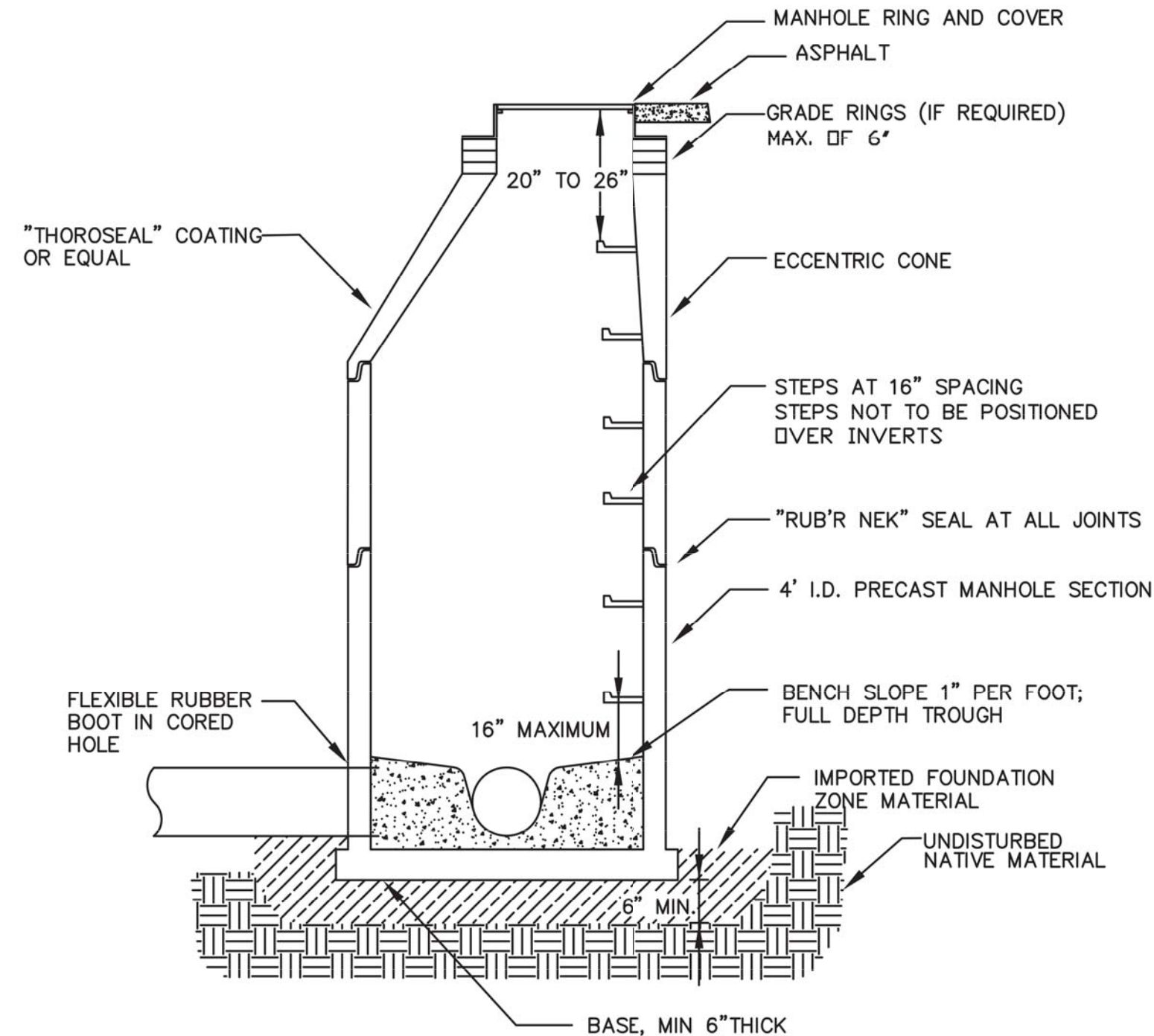
P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

FIRE HYDRANT
DETAIL

DRAWN BY: RBS DATE:2/2003

SCALE: NONE

SHEET: 6



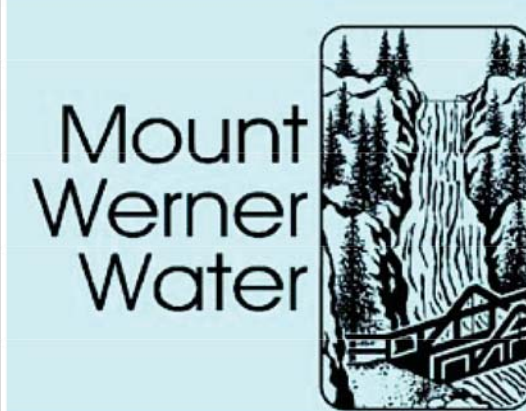
NOTE:

RUB'R NECK SEALS AT ALL JOINTS; INCLUDING CASTING TO GRADE RING, BETWEEN ALL GRADE RINGS AND AT ALL PRECAST JOINTS.

2. Added Note: 11/08

1. Revised MH Trough: 5/07

REVISION HISTORY:



P.O. Box 880339
3310 Clear Water Trail
Steamboat Springs, CO 80488
(970) 879-2424 fax (970) 879-8169

STANDARD MANHOLE
CROSS SECTION DETAIL

DRAWN BY: RBS DATE:2/2003

SCALE: NONE

SHEET: 8

REVIEWED
FOR
CODE
COMPLIANCE
04/01/2025

STEAMBOAT ESQUIAR LP

THE ASTRID
2410 SKI TRAIL LANE
WWW DETAILS II

CITY OF STEAMBOAT SPRINGS

ROUTT COUNTY

PREPARED UNDER THE DIRECT SUPERVISION OF



FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC SURVEY DATE 06/03/22

JOB NO. C020235

DRAWING NAME MWW DETAILS II

SHEET 54 OF 64

C54

REVISION DESCRIPTION

DESIGNED BY

SMB

DRAWN BY

TJM

CHECKED BY

MRB

PREPARED BY

SMB

SMB

DATE

2/29/2024

5/15/2024

INITIAL SUBMITTAL FOR CITY REVIEW

CITY COMMENTS

DATE

2/29/2024

5/15/2024

INITIAL SUBMITTAL FOR CITY REVIEW

CITY COMMENTS

DATE

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INITIAL SUBMITTAL FOR CITY REVIEW

CITY COMMENTS

DATE

2/29/2024

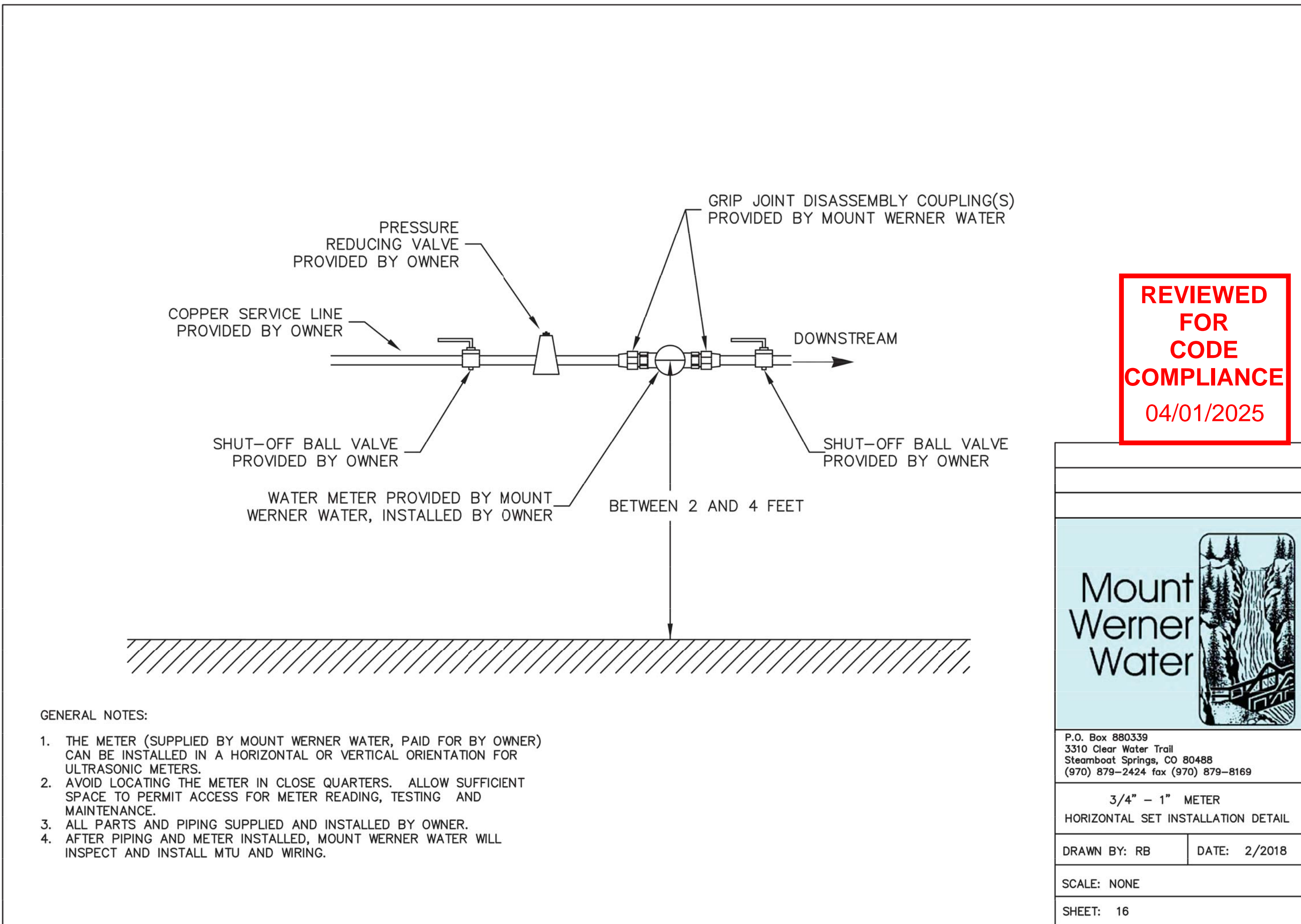
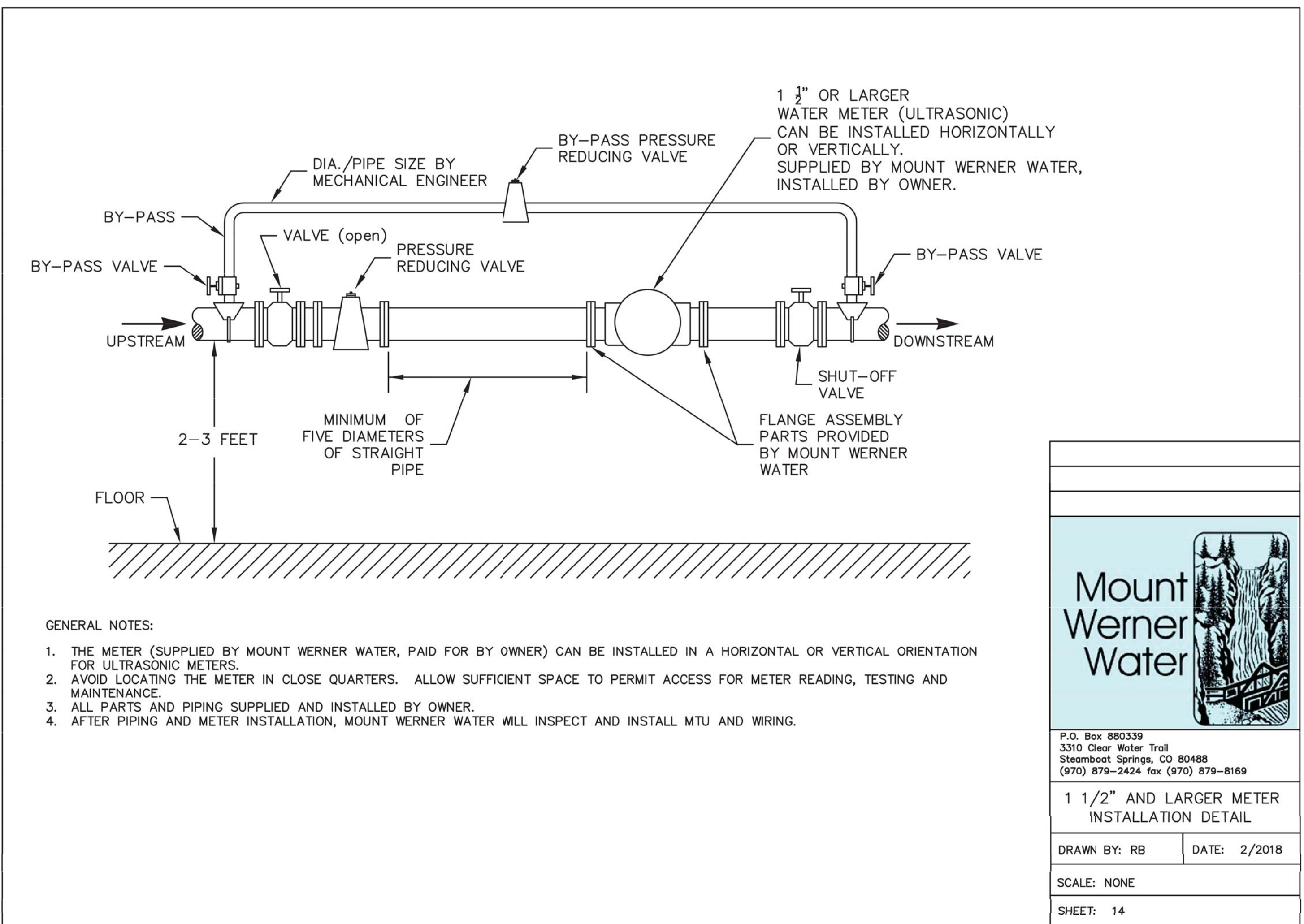
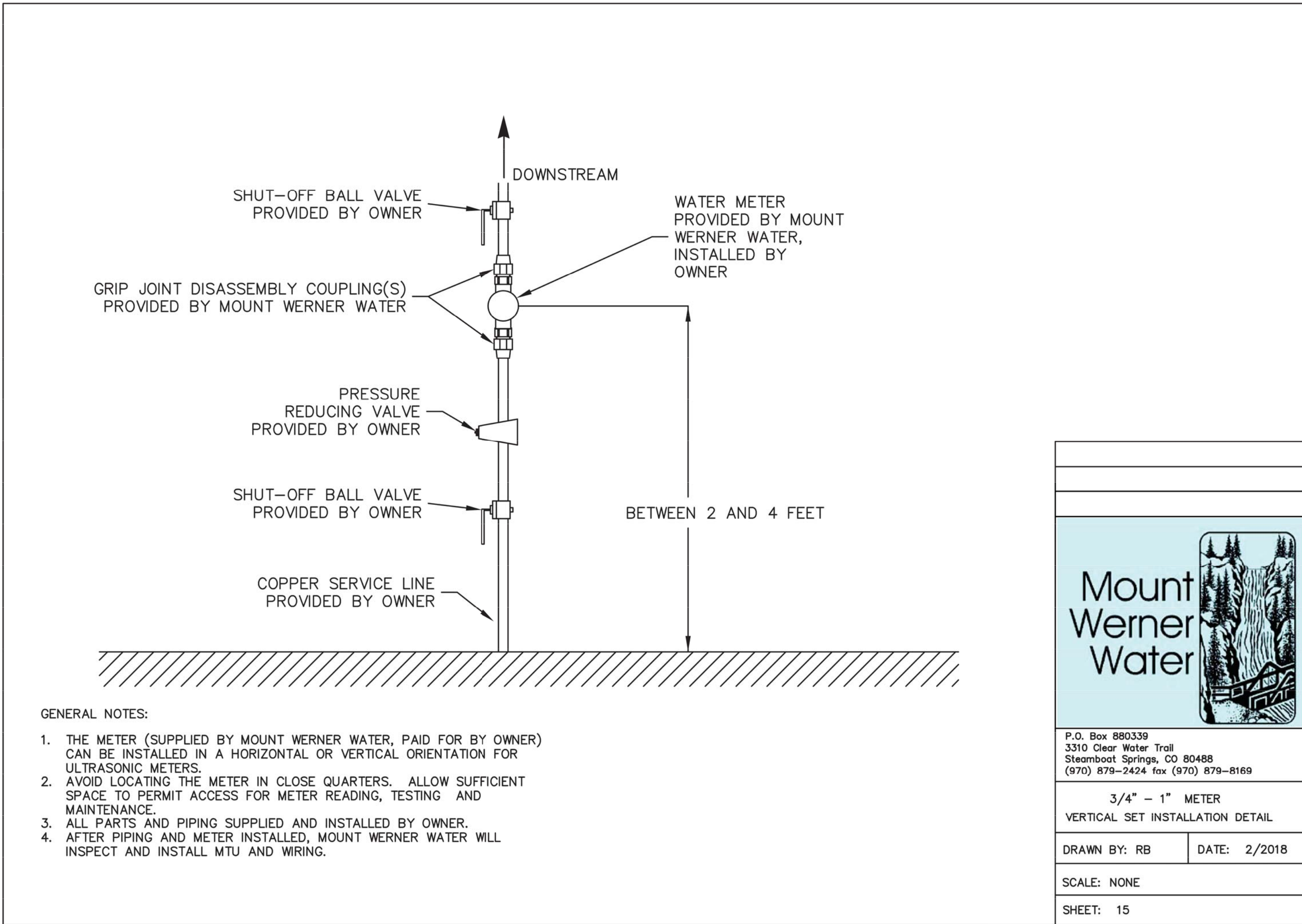
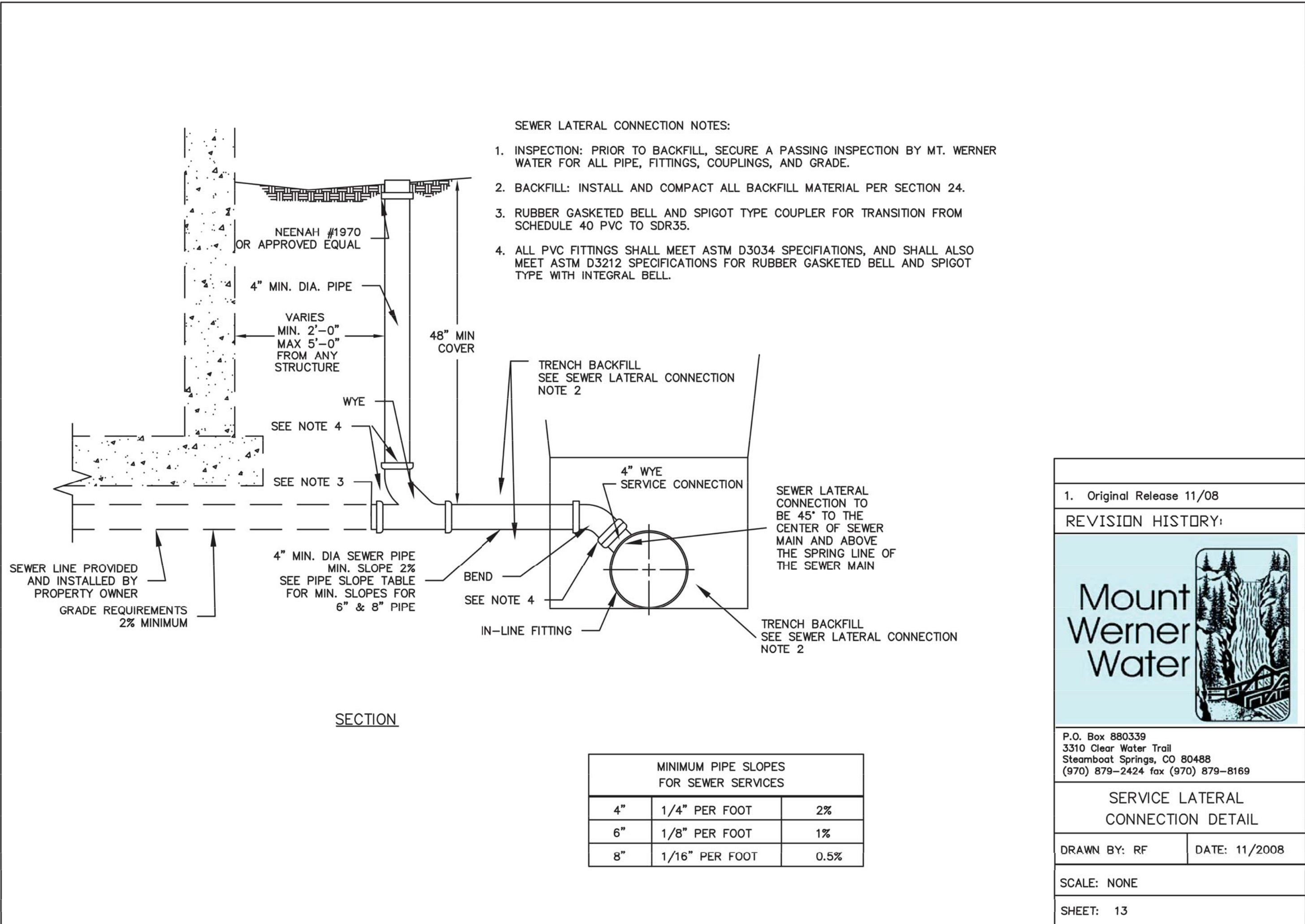
5/15/2024

INITIAL SUBMITTAL FOR CITY REVIEW

CITY COMMENTS



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BASELINE
Engineering • Planning • Surveying

169 HILLTOP PKWY, SUITE 204 • STEAMBOAT SPRINGS, CO 80477
P. 970.879.825 • F. 970.879.869 • www.baselinecorp.com

DESIGNED BY	DATE	PREPARED BY	REVISION DESCRIPTION	INITIAL SUBMITTAL FOR CITY REVIEW	CITY COMMENTS	CHECKED BY
SMB	2/29/2024	SMB				MRB
TJM	5/15/2024	SMB				

STEAMBOAT ESQUIAR LP

THE ASTRID
2410 SKI TRAIL LANE
MWW DETAILS IV

CITY OF STEAMBOAT SPRINGS

ROUTT COUNTY

FOR AND ON BEHALF OF
BASELINE CORPORATION

34952
5-15-24

PROFESSIONAL ENGINEER

FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 2/29/2024

DRAWING SIZE 24" X 36"

SURVEY FIRM LANDMARK, INC. SURVEY DATE 06/03/22

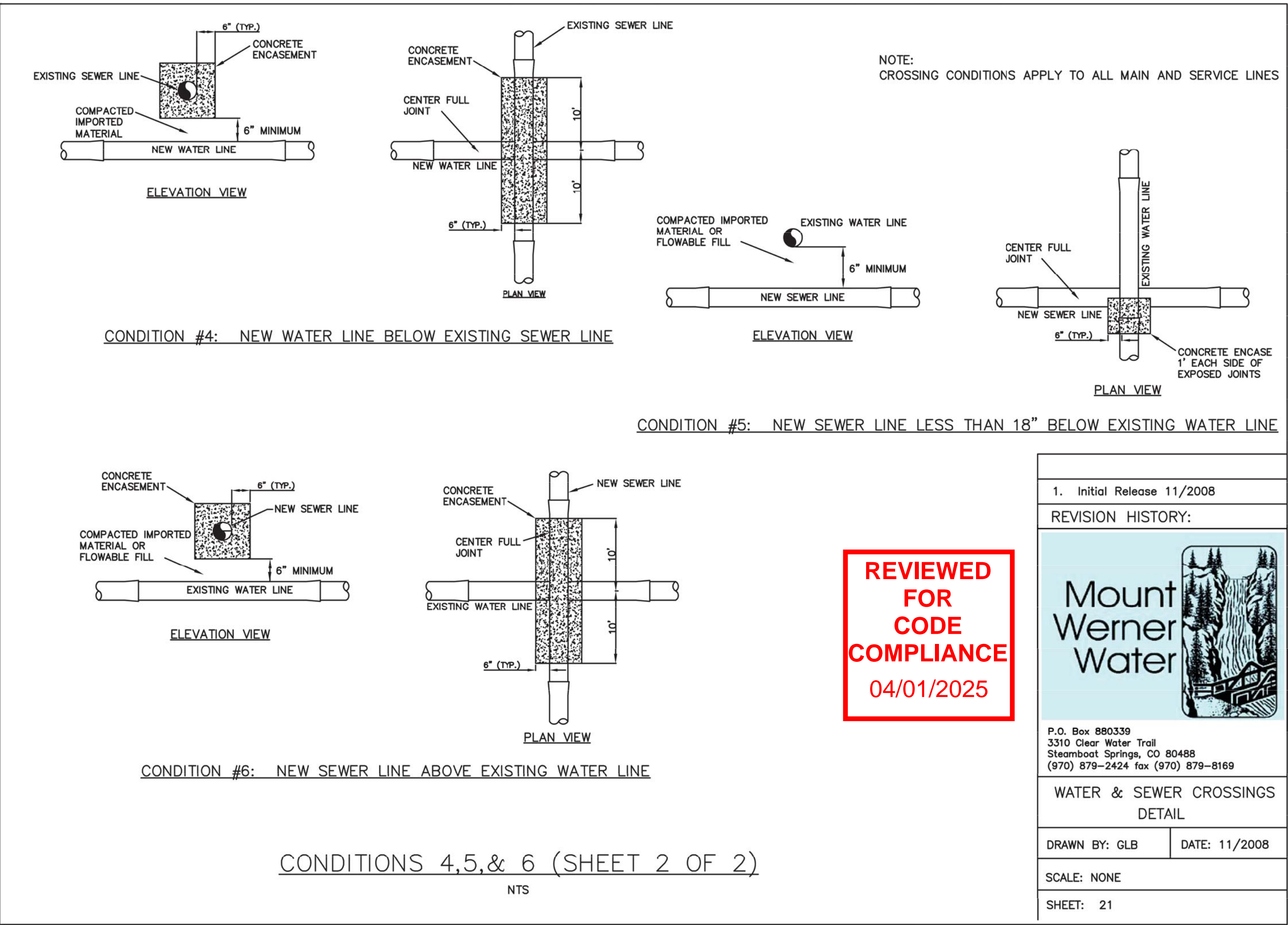
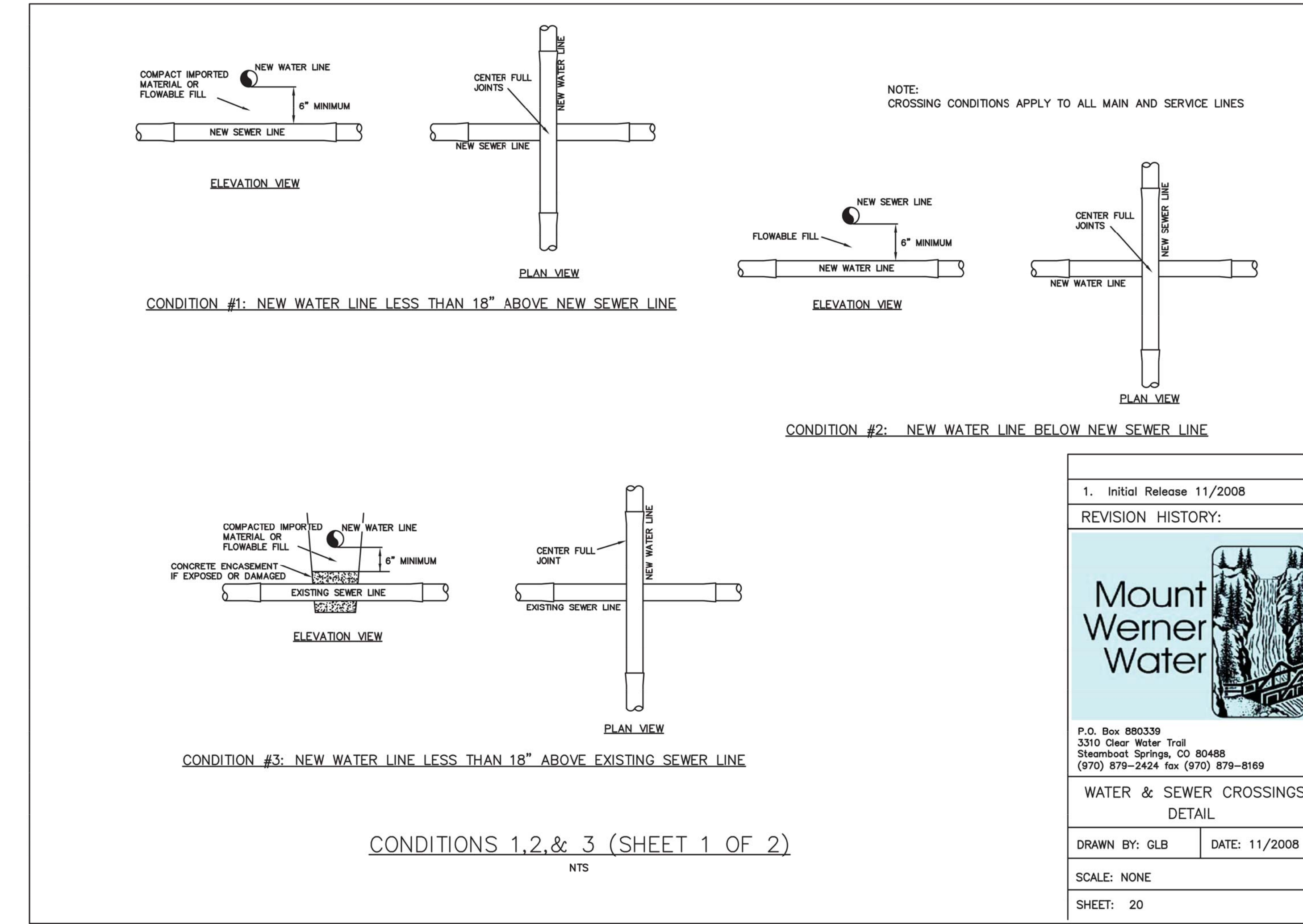
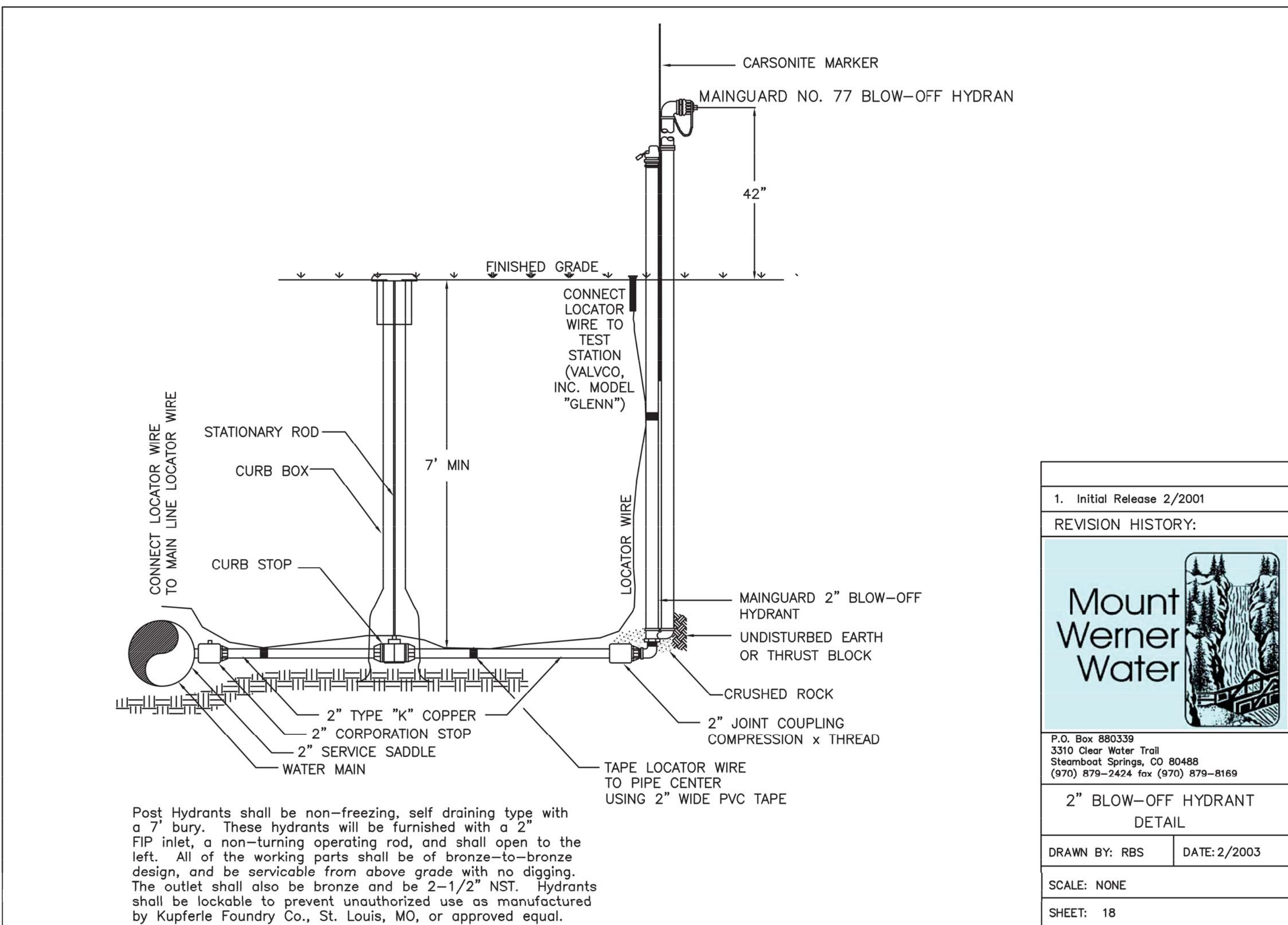
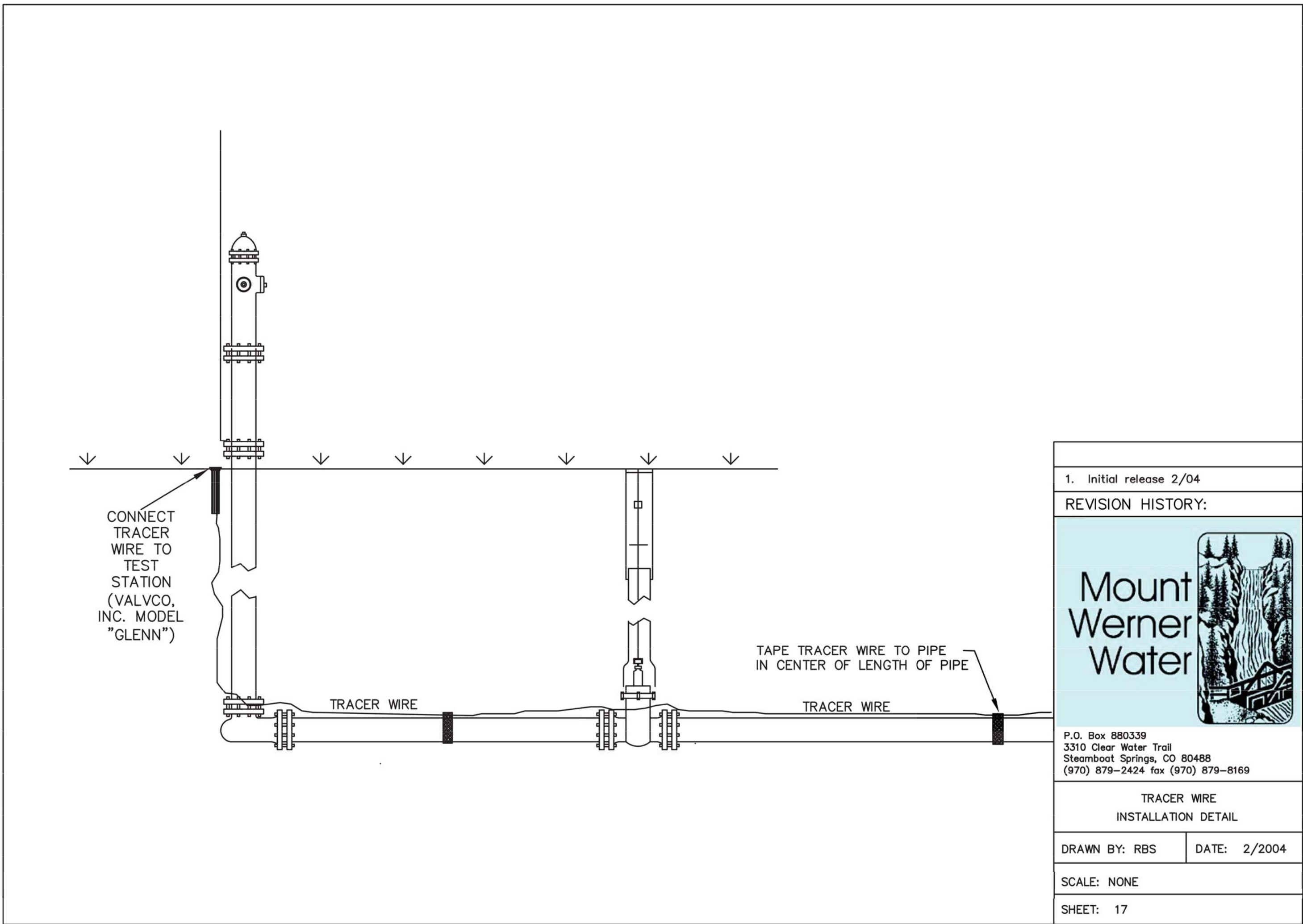
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DRAWING NAME MWW DETAILS IV

SHEET 56 OF 64

C56

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DESIGNED BY
SMB

DATE
2/29/2024

PREPARED BY
SMB

REVISION DESCRIPTION
INITIAL SUBMITTAL FOR CITY REVIEW

CITY COMMENTS

CHECKED BY
MRB

DATE
5/15/2024

THE ASTRID
2410 SKI TRAIL LANE
MWW DETAILS V

CITY OF STEAMBOAT SPRINGS
ROUTT COUNTY

FOR AND ON BEHALF OF
BASELINE CORPORATION
34952
5-15-24
PROFESSIONAL ENGINEER
FOR THE STATE OF COLORADO

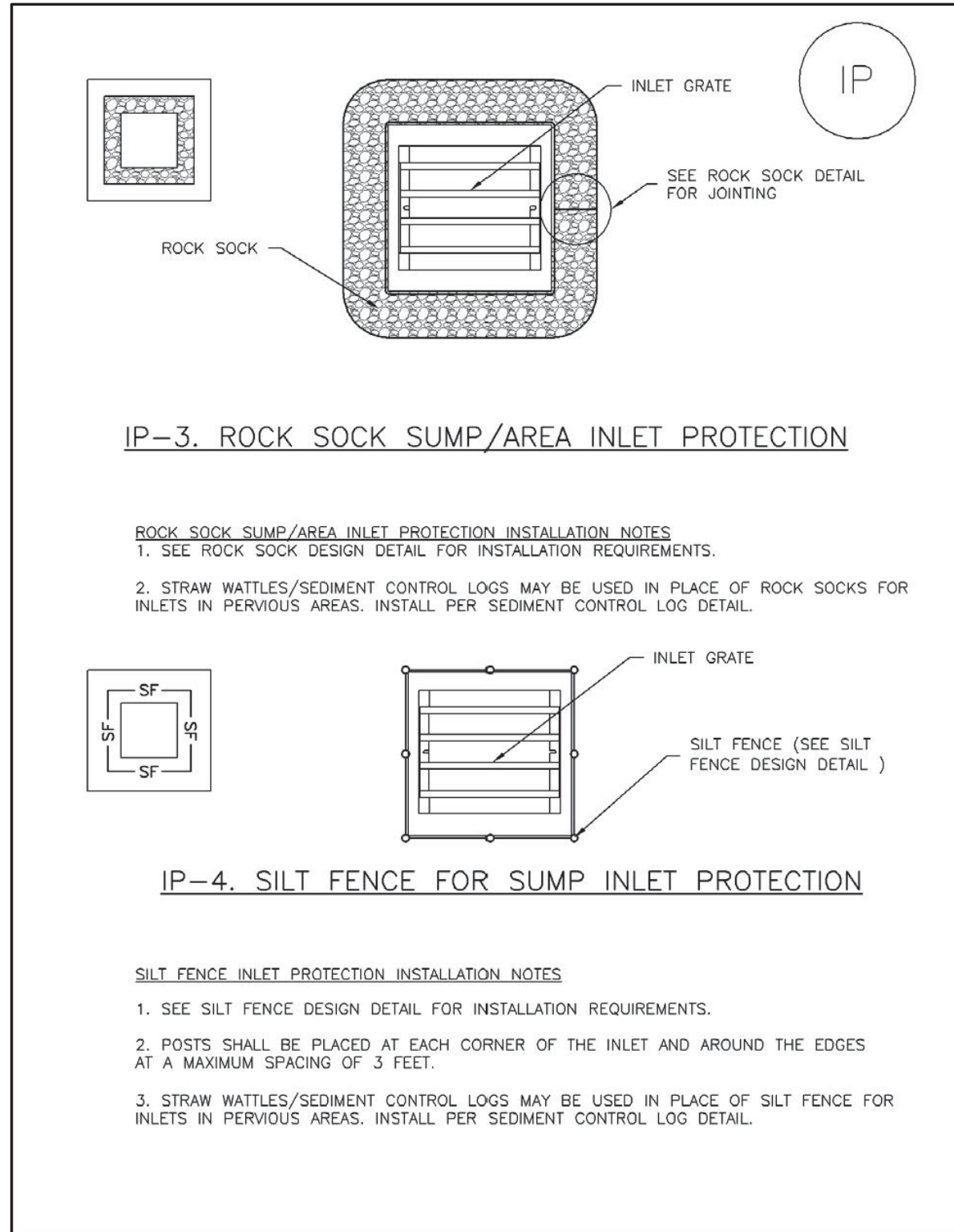
INITIAL SUBMITTAL
2/29/2024
DRAWING SIZE
24" X 36"
SURVEY FIRM
LANDMARK, INC
06/03/22
JOB NO.
C020235
DRAWING NAME
MWW DETAILS V
SHEET
57 OF 64

C57

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Inlet Protection (IP)

SC-6

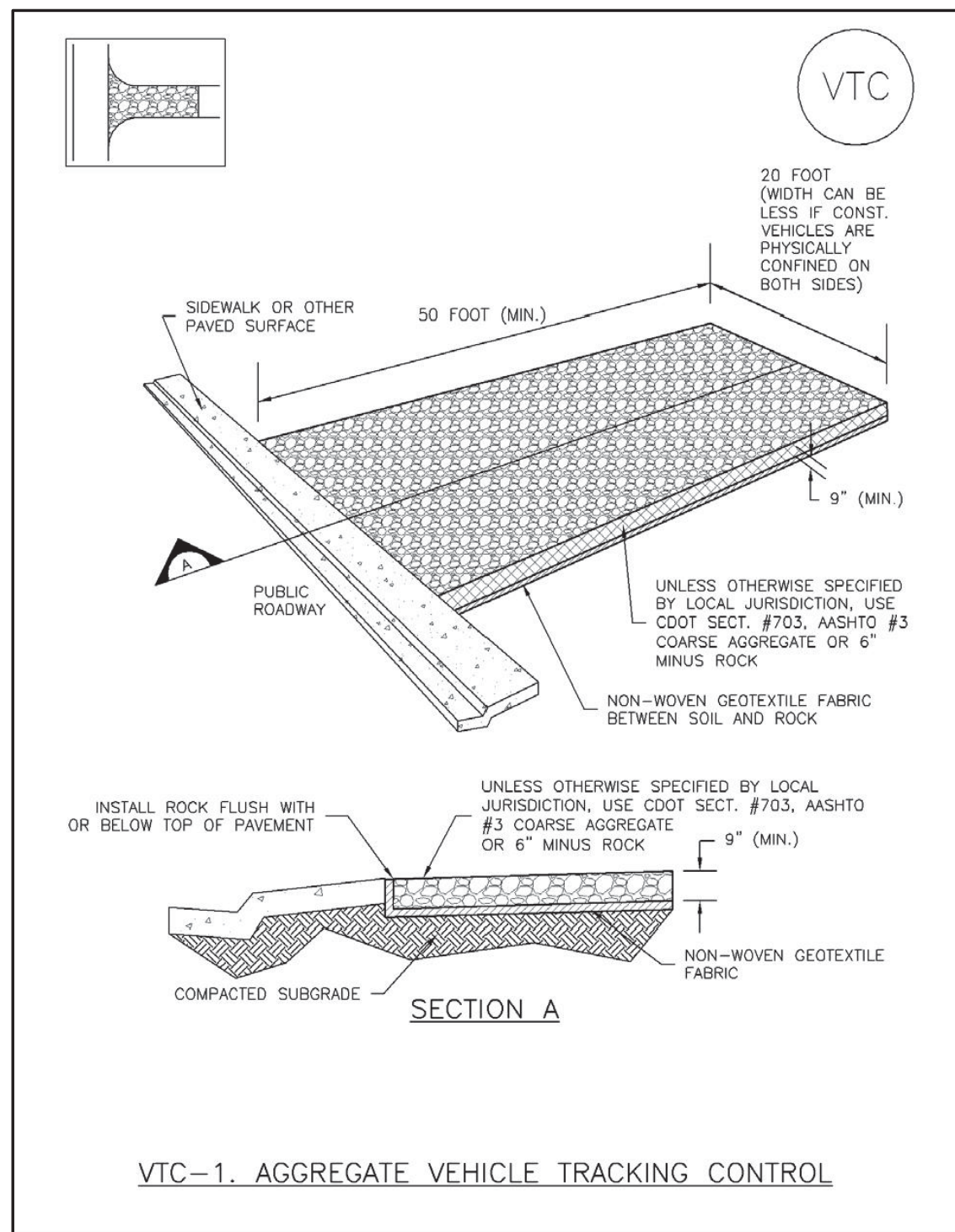


August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 IP-5

1 INLET PROTECTION
C58 C58

Vehicle Tracking Control (VTC)

SM-4

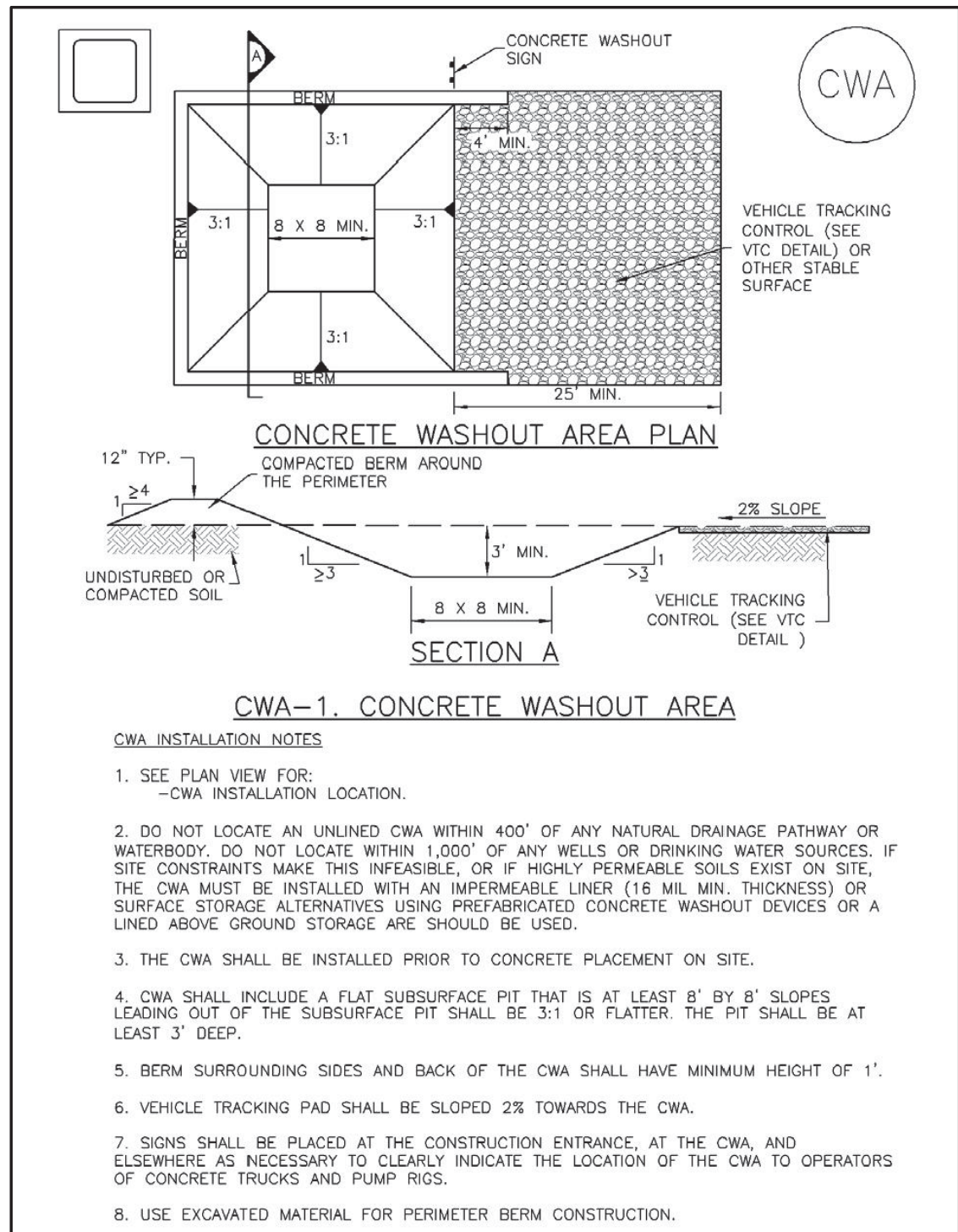


November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 VTC-3

3 VEHICLE TRACKING CONTROL
C58 C58

Concrete Washout Area (CWA)

MM-1

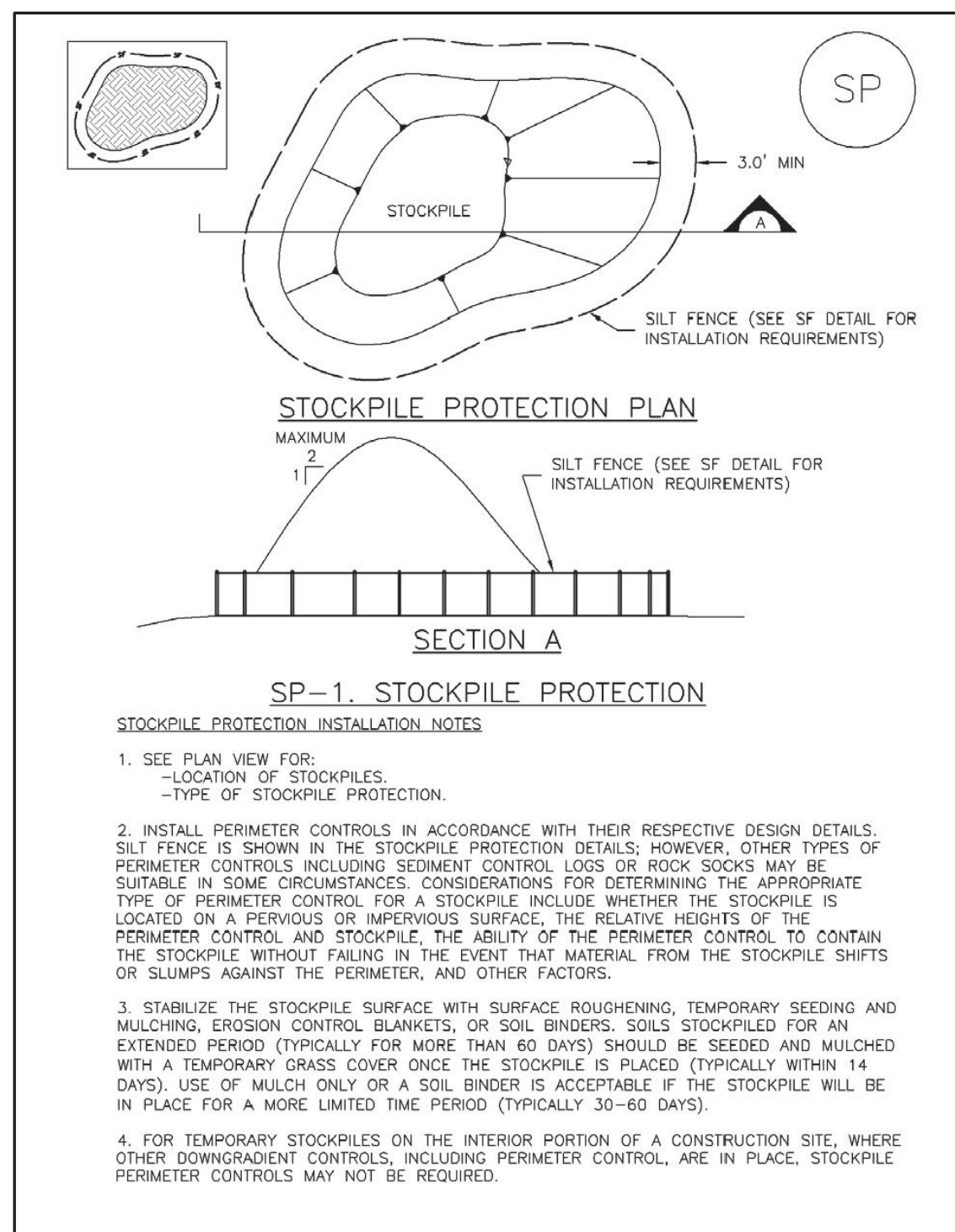


November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-3

2 CONCRETE WASHOUT AREA
C58 C58

Stockpile Management (SP)

MM-2

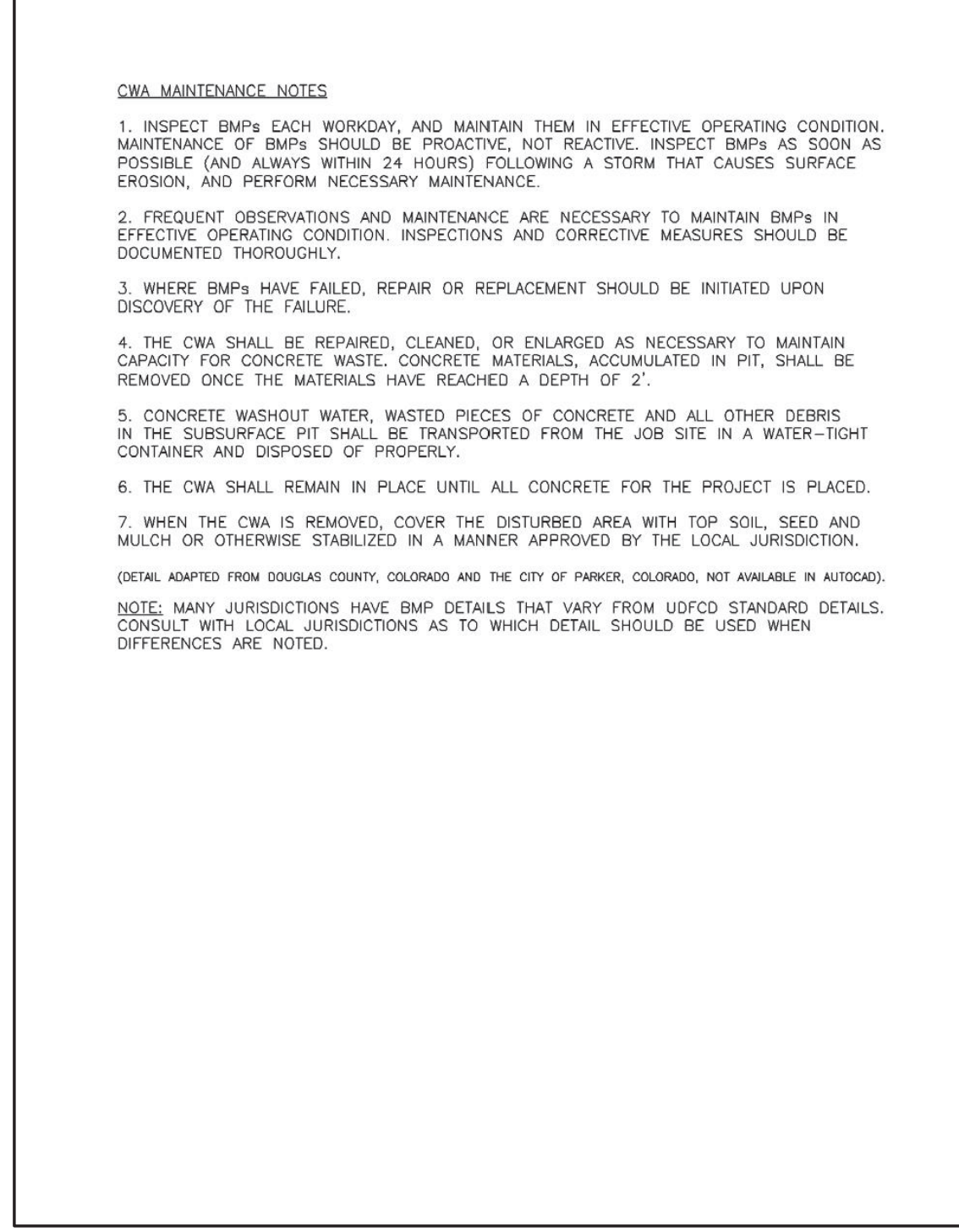


November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SP-3

4 STOCKPILE PROTECTION
C58 C58

Concrete Washout Area (CWA)

Concrete Washout Area (CWA)

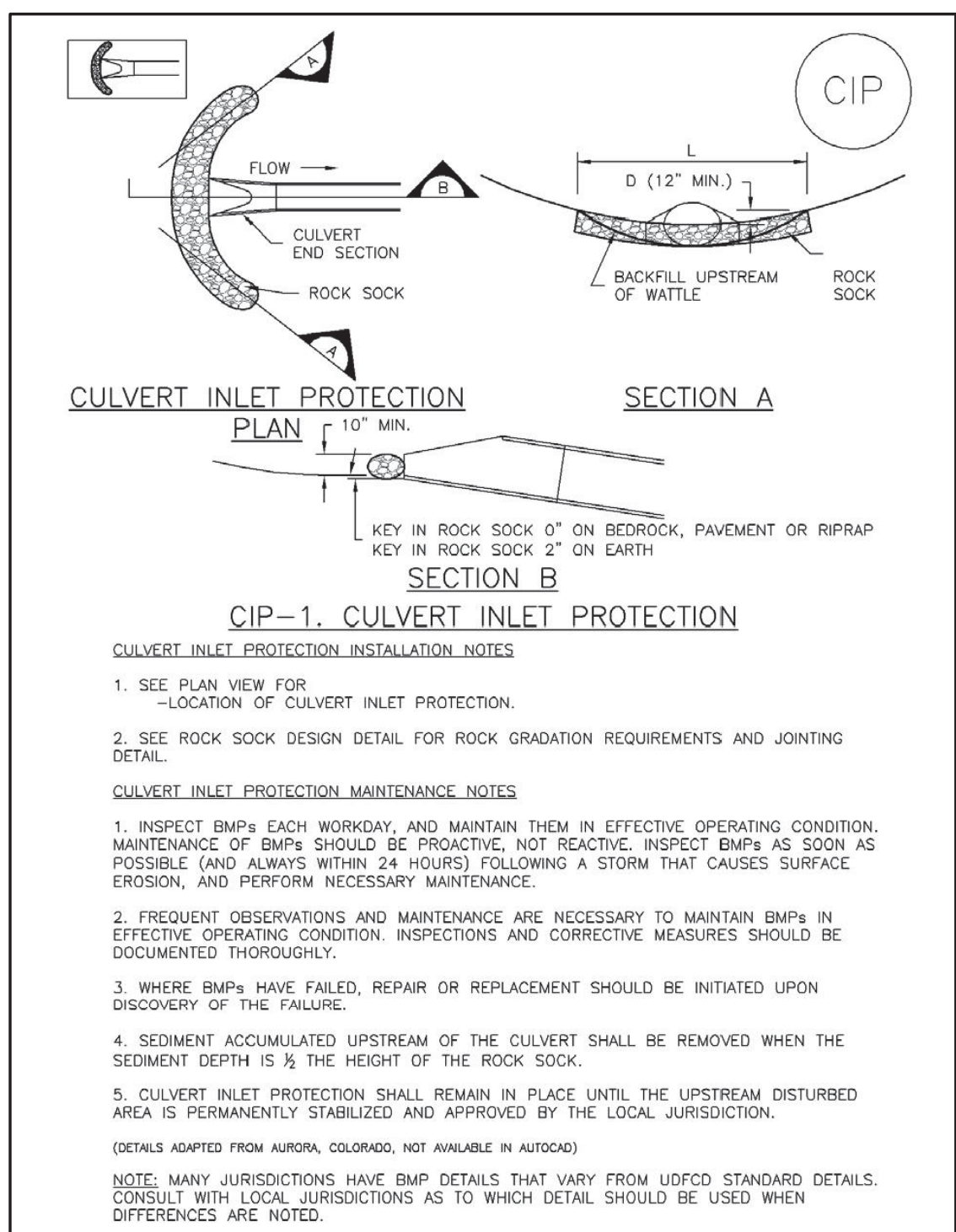


November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 CWA-4

5 CULVERT INLET PROTECTION
C58 C58

Inlet Protection (IP)

SC-6

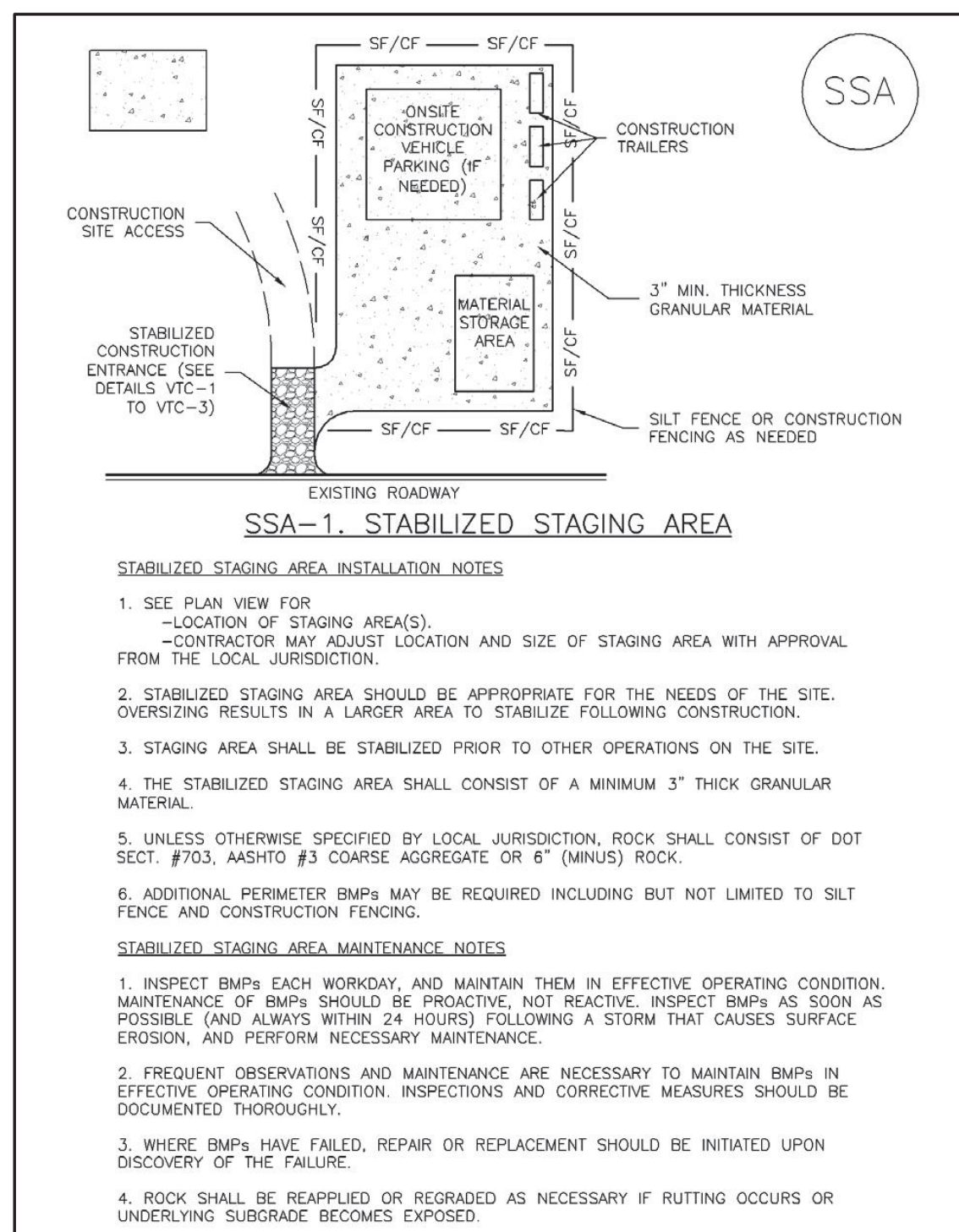


August 2013 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 IP-7

5 CULVERT INLET PROTECTION
C58 C58

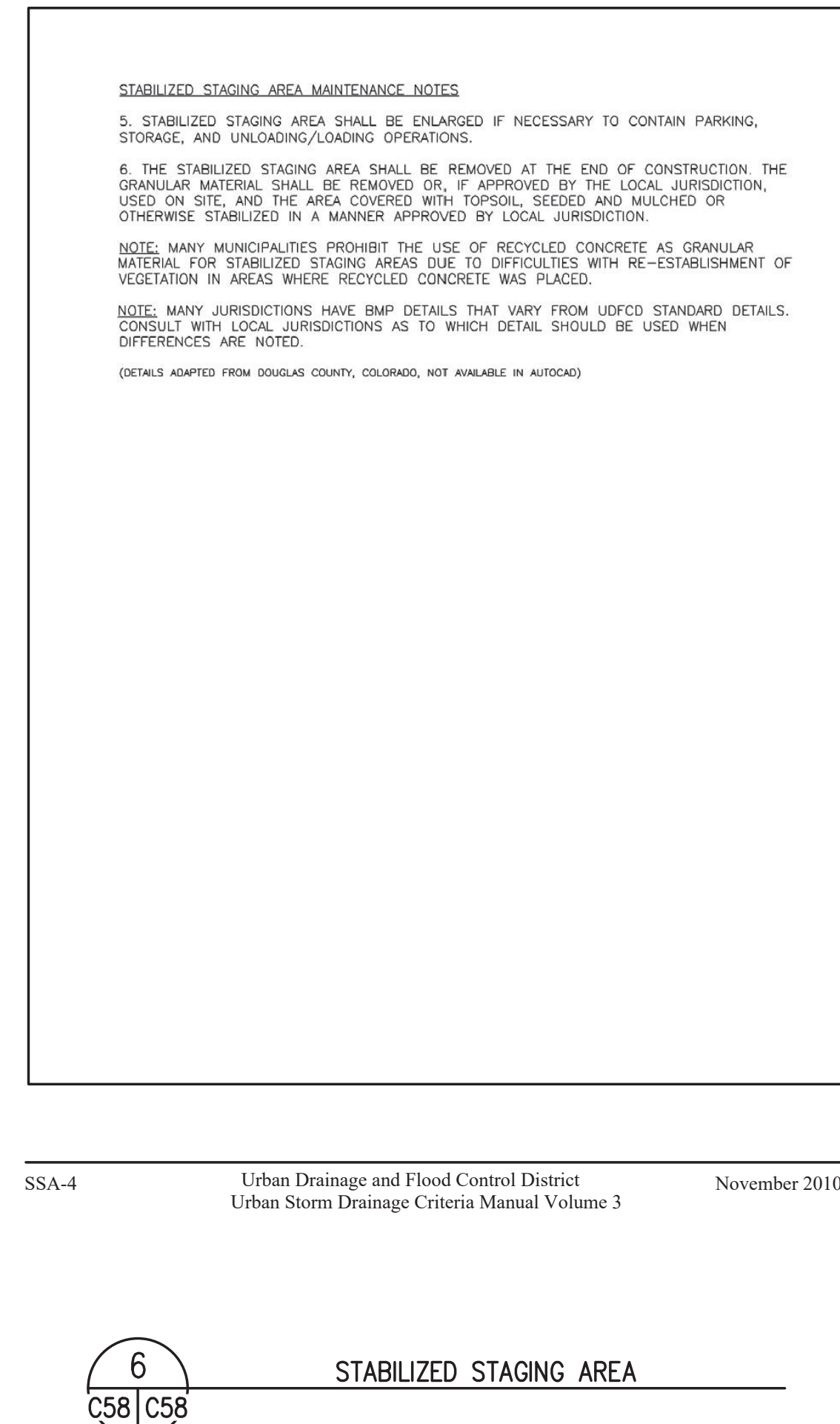
Stabilized Staging Area (SSA)

SM-6



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-3

Stabilized Staging Area (SSA)



November 2010 Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3 SSA-4

6 STABILIZED STAGING AREA
C58 C58

REVIEWED
FOR
CODE
COMPLIANCE
04/01/2025

DESIGNED BY SMB
DRAWN BY TUM
CHECKED BY MRB

DATE 2/29/2024
PREPARED BY SMB
CITY COMMENTS

DATE 5/15/2024
REVISION DESCRIPTION

INITIAL SUBMITTAL FOR CITY REVIEW

INITIAL SUBMITTAL FOR CITY REVIEW

INITIAL SUBMITTAL FOR CITY REVIEW

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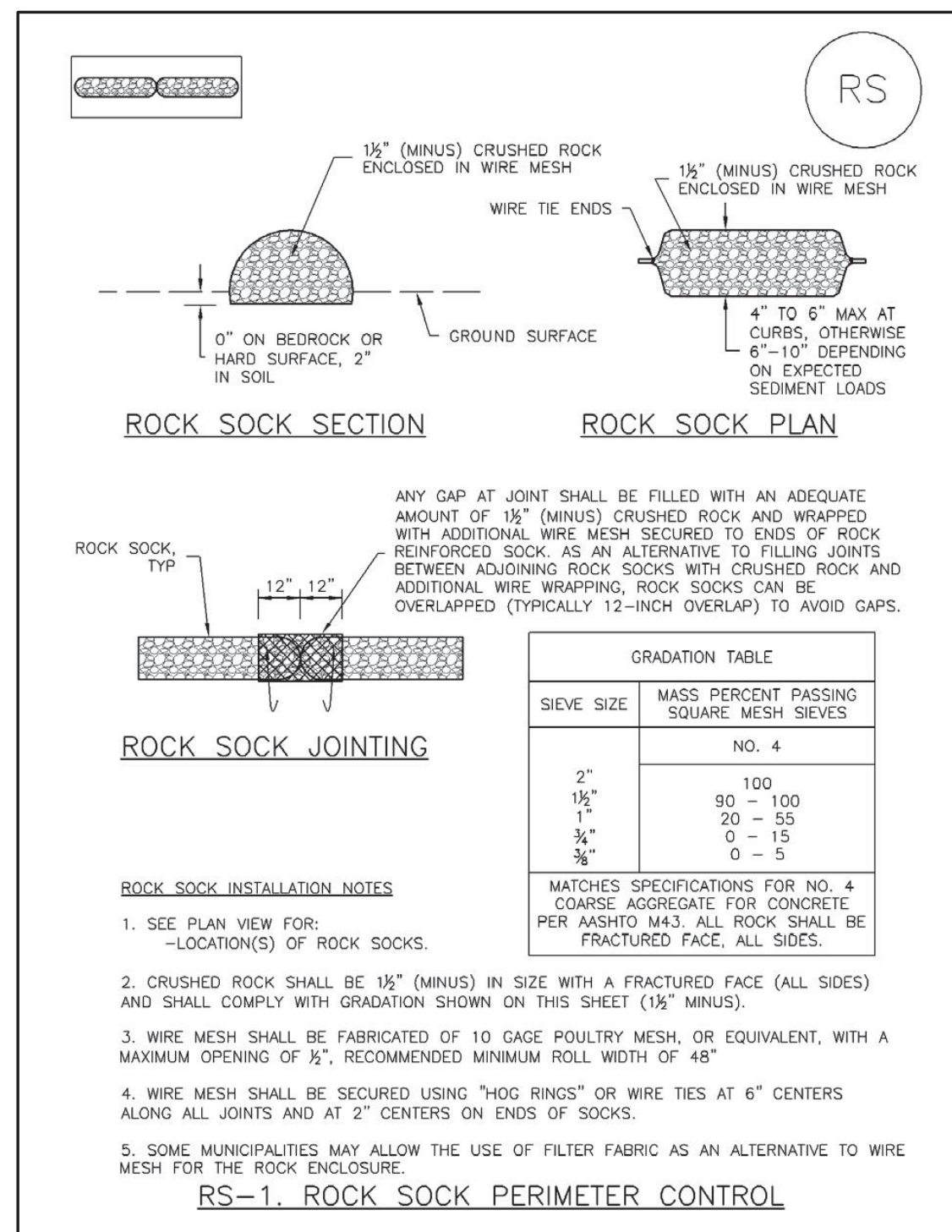
INITIAL SUBMITTAL FOR CITY REVIEW

INITIAL SUBMITTAL FOR CITY REVIEW

INITIAL SUBMITTAL FOR CITY REVIEW

SC-5

Rock Sock (RS)



RS-2	Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3	November 2010
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Rock Sock (RS)

ROCK SOCK MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE AND ALWAYS WITHIN 24 HOURS FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.
2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE INITIATED UPON DISCOVERY OF THE FOLLOWING:
 - a. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
 - b. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED BEYOND REPAIR.
 - c. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONING OF THE BMP. TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY $\frac{1}{2}$ OF THE HEIGHT OF THE ROCK SOCK.
 - d. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.
3. WHEN ROCK SOCKS ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDS AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: DATA ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

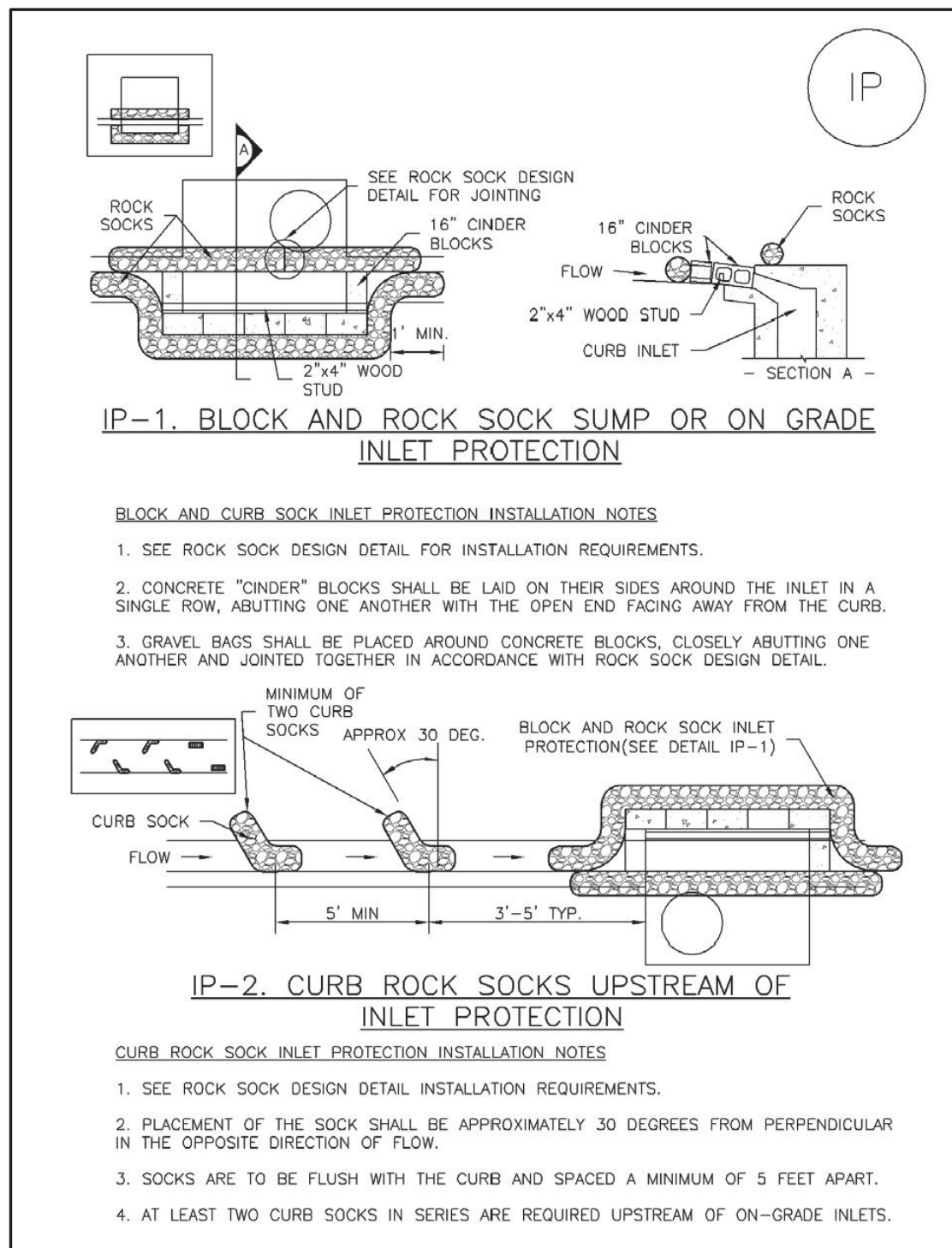
NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL METHODS OF ROCK SLOPE INSTALLATION IN THE DENVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET. UDFCD neither endorses NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT SUCH PRODUCTS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST BE INCLUDED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN IN THE MANUFACTURER'S DETAILS.

November 2010 Urban Drainage and Flood Control District RS-3
Urban Storm Drainage Criteria Manual Volume 3

SC-5

SC-6

Inlet Protection (IP)



IP-4 Urban Drainage and Flood Control District August 2013
Urban Storm Drainage Criteria Manual Volume 3

SC-6

Inlet Protection (IP)

GENERAL INLET PROTECTION INSTALLATION NOTES

1. SEE PLAN VIEW FOR:
 - LOCATION OF INLET PROTECTION.
 - TYPE OF INLET PROTECTION (IP.1, IP.2, IP.3, IP.4, IP.5, IP.6)
2. INLET PROTECTION SHALL BE INSTALLED PROMPTLY AFTER INLET CONSTRUCTION OR PAVING IS COMPLETE (SPECIALLY WITHIN 48 HOURS). IF A RAINFALL/RUNOFF EVENT IS FORECAST, INSTALL INLET PROTECTION PRIOR TO ONSET OF EVENT.
3. MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM WQCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

INLET PROTECTION MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.
4. SEDIMENT ACCUMULATED UPSTREAM OF INLET PROTECTION SHALL BE REMOVED AS NECESSARY TO MAINTAIN BMP EFFECTIVENESS, TYPICALLY WHEN STORAGE VOLUME REACHES 50% CAPACITY, A DEPTH OF 6" WHEN SILT FENCE IS USED, OR 1/4 OF THE HEIGHT FOR STRAW BALE.

5. INLET PROTECTION IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED, UNLESS THE LOCAL JURISDICTION APPROVES EARLIER REMOVAL OF INLET PROTECTION IN STREETS.

6. WHEN INLET PROTECTION AT AREA INLETS IS REMOVED, THE DISTURBED AREA SHALL BE COVERED WITH TOP SOIL, SEEDED AND MULCHED, OR OTHERWISE STABILIZED IN A MANNER APPROVED BY THE LOCAL JURISDICTION.

(NOTE: ADAPTED FROM TOWN OF PINKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

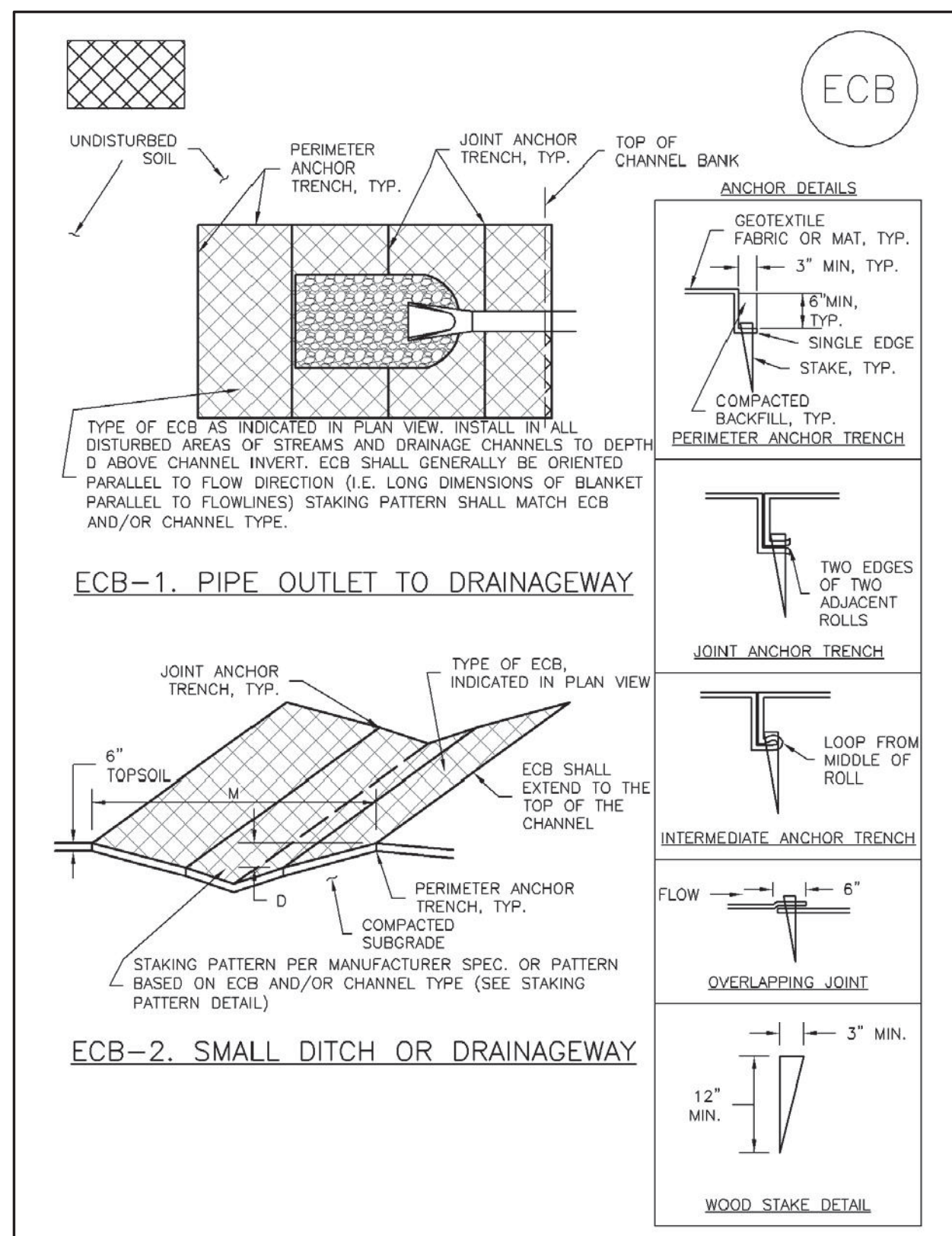
NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

IP-8	Urban Drainage and Flood Control District Urban Storm Drainage Criteria Manual Volume 3	August 2013
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ROCK SOCK

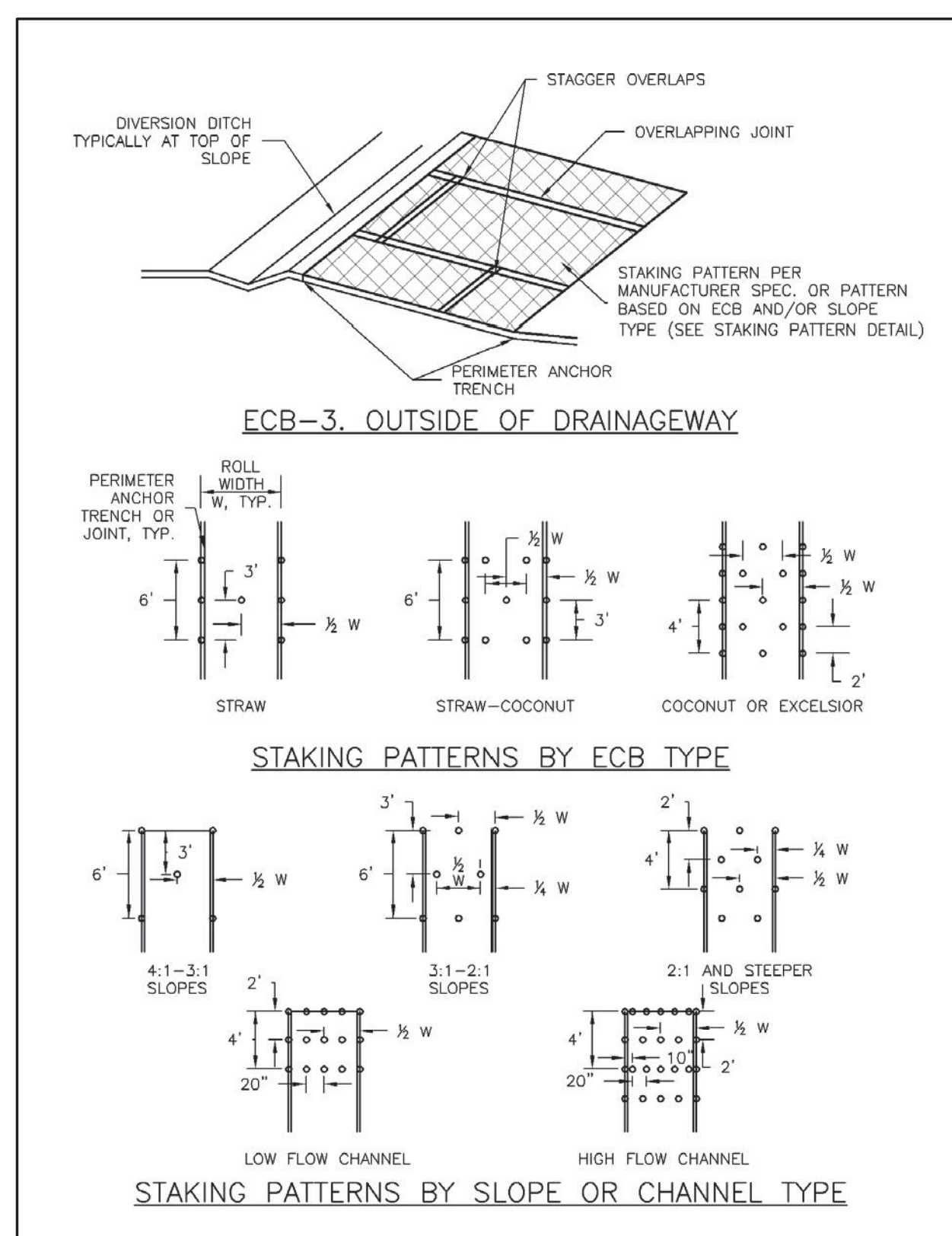
INLET PROTECTION

EC-6 Rolled Erosion Control Products (RECP)



RECP-6 Urban Drainage and Flood Control District November 2010
Urban Storm Drainage Criteria Manual Volume 3

Rolled Erosion Control Products (RECP)



November 2010
Urban Drainage and Flood Control District
Urban Storm Drainage Criteria Manual Volume 3
RECP-7

ROLLED EROSION CONTROL PRODUCTS

**REVIEWED
FOR
CODE
COMPLIANCE**
04/01/2025

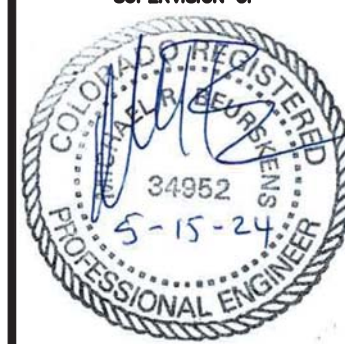
STEAMBOAT ESQUAR LP

ROUTT COUNTY

THE ASTRID
2410 SKI TRAIL LANE

EROSION & SEDIMENT CONTROL DETAILS II

PREPARED UNDER THE
SUPERVISION OF



FOR AND ON BEHALF OF
BASELINE CORPORATION

INITIAL SUBMITTAL 2/29/2024

INITIAL SUBMITTAL	2/29/2024
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DRAWING SIZE	24" X 36"
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SURVEY FIRM	SURVEY DATE
LANDMARK INC.	06/03/22

JOB NO.	C020235
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DRAWING NAME
EROSION & SEDIMENT CONTROL PLAN

SHEET 59 OF 64

C59