

NOTES

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TYLER'S VISTA

DETAIL SHEET

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The image shows a large, bold, black, stylized font. The letters 'Al' are at the top, with a ampersand '&' positioned between them. Below this, the letters 'Ac' are also in a large, bold, black, stylized font. To the right of the letters, there is a vertical line. Above the line, the letters 'Civ' are written in a smaller, black, sans-serif font. To the right of 'Civ', the number '3377' is partially visible. The entire graphic is set against a white background.

EROSION AND SEDIMENT CONTROL

A) STABILIZATION/NONSTRUCTURAL PRACTICES: THE OPERATOR SHALL INSTALL A PERIMETER & EROSION CONTROL MEASURES POSSIBLE, BEFORE PROJECT BEGINS AND AS NEEDED DURING THE CONSTRUCTION PROCESS AND USE APPROPRIATE EROSION PRACTICES ON ALL DISTURBED AREAS WITHIN SEVEN (7) DAYS IF THEY ARE TO REMAIN DORMANT UNDISTURBED FOR MORE THAN FORTY-FIVE (45) DAYS. FOR AREAS WITHIN FIFTY (50) FEET OF ANY STREAM, FIRST ORDER OR LARGER, SOIL STABILIZATION PRACTICES SHALL BE INITIATED WITHIN TWO (2) DAYS ON ALL INACTIVE DISTURBED AREAS. PERMANENT OF TEMPORARY SOIL STABILIZATION SHALL BE APPLIED TO DISTURBED AREAS WITHIN SEVEN (7) DAYS AFTER FINAL GRADE IS REACHED ON ANY PORTION OF THE SITE. WHEN SEASONAL CONDITIONS PROHIBIT THE APPLICATION OF TEMPORARY OR PERMANENT SEEDING, NON-VEGETATIVE SOIL STABILIZATION PRACTICES SUCH AS MULCHING AND MATTING SHALL BE USED.

B) STRUCTURAL PRACTICES: STRUCTURAL PRACTICES SHALL BE USED TO CONTROL EROSION AND TRAP SEDIMENT FROM ALL SITES REMAINING DISTURBED FOR MORE THAN FOURTEEN (14) DAYS. SUCH PRACTICES MAY INCLUDE AMONG OTHERS SEDIMENT TRAPS, SEDIMENT BASINS, SILT FENCES, EARTH DIVISION DAMS, CHECK DAMS AND STORM DRAIN INLET PROTECTION.

C) THIS PLAN SHALL NOT BE CONSIDERED ALL INCLUSIVE AS THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO PREVENT SOIL SEDIMENT FROM LEAVING THE SITE. ADDITIONAL EROSION AND SEDIMENTATION CONTROL MEASURES WILL BE INSTALLED IF DEEMED NECESSARY BY AN ON-SITE INSPECTION.

1. TIMING: SEDIMENT CONTROL STRUCTURES SHALL BE FUNCTIONAL THROUGHOUT EARTH DISTURBING ACTIVITY, SEDIMENT PONDS AND PERIMETER SEDIMENT BARRIERS SHALL BE IMPLEMENTED AS THE FIRST STEP OF GRADING AND WITHIN SEVEN DAYS FROM THE START OF GRUBBING, THEY SHALL CONTINUE TO FUNCTION UNTIL THE UP SLOPE DEVELOPMENT AREA IS DESTABILIZED.

2. SETTLING PONDS: CONCENTRATED STORM WATER RUNOFF FROM DISTURBED AREAS FLOWING AT RATES WHICH EXCEED THE DESIGN CAPACITY, SEDIMENT FENCES OR DIVERSIONS, DIRECTING RUNOFF TO SETTLING FACILITIES, SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

3. SEDIMENT BARRIERS: SHEET WATER RUNOFF FROM DENUDED AREAS SHALL BE INTERCEPTED BY SEDIMENT BARRIERS. SEDIMENT BARRIERS, SUCH AS SEDIMENT FENCES OR DIVERSIONS DIRECTING RUNOFF TO SETTLING FACILITIES, SHALL PROTECT ADJACENT PROPERTIES AND WATER RESOURCES FROM SEDIMENT TRANSPORTED BY SHEET FLOW.

4. STREAM PROTECTION: STRUCTURAL PRACTICES SHALL BE DESIGNED AND IMPLEMENTED ON SITE TO PROTECT ALL ADJACENT STREAMS, FIRST ORDER AND LARGER, FROM THE IMPACTS OF SEDIMENT RUNOFF.

5. OTHER EROSION AND SEDIMENT CONTROL PRACTICES SHALL PREVENT SEDIMENT LADEN WATER FROM ENTERING STORM DRAIN SYSTEMS, UNLESS THE STORM DRAIN SYSTEM DRAINS TO A SETTLING POND. THESE PRACTICES SHALL DIVERT RUNOFF FROM DISTURBED AREAS AND STEEP SLOPES WHERE PRACTICABLE AND STABILIZE CHANNELS AND OUTFALLS FROM EROSION FLOWS.

MAINTENANCE: ALL TEMPORARY AND PERMANENT CONTROL PRACTICES SHALL BE MAINTAINED AND REPAIRED AS NEEDED TO ASSURE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION. THE POLLUTION PREVENTION PLAN SHALL BE DESIGNED TO MINIMIZE MAINTENANCE REQUIREMENTS. THE APPLICANT SHALL PROVIDE A DESCRIPTION OF MAINTENANCE PROCEDURES NEEDED TO ASSURE THE CONTINUED PERFORMANCE OF CONTROL PRACTICES.

INSPECTIONS: AT A MINIMUM, PROCEDURES IN A PLAN SHALL PROVIDE THAT ALL EROSION AND SEDIMENT CONTROLS ON THE SITE ARE INSPECTED AT LEAST ONCE EVERY SEVEN (7) CALENDAR DAYS AND WITHIN 24 HOURS AFTER ANY STORM EVENT GREATER THAN 0.5 INCH OF RAIN PER 24 HOUR PERIOD. IN ADDITION, QUALIFIED INSPECTION PERSONNEL (PROVIDED BY THE PERMITTEE) SHALL CONDUCT A WEEKLY INSPECTION OF THE CONSTRUCTION SITE TO IDENTIFY AREAS CONTRIBUTING TO STORM WATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY AND EVALUATE WHETHER MEASURES TO PREVENT EROSION AND CONTROL POLLUTANT LOADINGS IDENTIFIED IN A STORM WATER POLLUTION PREVENTION PLAN ARE ADEQUATE AND PROPERLY IMPLEMENTED OR WHETHER ADDITIONAL CONTROL MEASURES ARE REQUIRED. DISTURBED AREAS AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION SHALL BE INSPECTED FOR EVIDENCE OF, OR THE POTENTIAL FOR, POLLUTANTS ENTERING THE DRAINAGE SYSTEM. EROSION AND SEDIMENT CONTROL MEASURES IDENTIFIED IN THE PLAN SHALL BE OBSERVED TO ENSURE THAT THEY ARE OPERATING CORRECTLY. DISCHARGE LOCATIONS SHALL BE INSPECTED TO ASCERTAIN WHETHER EROSION AND SEDIMENT CONTROL MEASURES ARE EFFECTIVE IN PREVENTING SIGNIFICANT IMPACTS TO THE RECEIVING WATERS. LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE SHALL BE INSPECTED FOR EVIDENCE OF OFF-SITE VEHICLE TRACKING.

THE PERMITTEE SHALL MAINTAIN FOR TWO (2) YEARS FOLLOWING THE SUBMITAL OF THE H.O.T. A RECORD SUMMARIZING THE RESULTS OF THE INSPECTION, NAME(S) AND QUALIFICATIONS OF PERSONNEL MAKING THE INSPECTION, THE DATE(S) OF THE INSPECTION, MAJOR OBSERVATIONS RELATING TO THE IMPLEMENTATION OF THE STORM WATER POLLUTION PREVENTION PLAN AND A CERTIFICATION THAT THE FACILITY IS IN COMPLIANCE WITH THE PLAN AND THE PERMIT AND IDENTIFY ANY INCIDENTS OF NON-COMPLIANCE.

TECHNICAL STANDARD AND SPECIFICATIONS
Critical Area Planting - Temporary Seeding (TS)
STANDARD DEFINITION

THE ESTABLISHMENT OF A TEMPORARY VEGETATIVE COVER ON DISTURBED AREAS BY SEEDING WITH THE APPROPRIATE RAPID GROWING PLANTS.

PURPOSES

1. TO REDUCE THE EROSION AND DECREASE SEDIMENT YIELD FROM DISTURBED AREAS.

2. TO PERMANENTLY STABILIZE DISTURBED AREAS IN A MANNER THIS IS ECONOMICAL, ADAPTABLE TO SITE CONDITIONS, AND ALLOWS SELECTION OF THE MOST APPROPRIATE PLANT MATERIALS.

3. TO REDUCE SEDIMENT RUNOFF TO DOWNSTREAM AREAS AND IMPROVE THE VISUAL RESOURCES OF THE CONSTRUCTION AREA.

CONDITIONS WHERE PRACTICE APPLIES

ON EXPOSED SOIL SURFACES WHERE ADDITIONAL WORK (GRADING, ETC.) IS NOT SCHEDULED FOR A PERIOD OF THREE WEEKS TO LESS THAN ONE YEAR.

PLANNING CONSIDERATIONS

1. PROTECT THE AREA FROM EXCESS RUNOFF AS NECESSARY WITH DIVERSIONS, GRASSED WATERWAYS, TERRACES, OR SEDIMENT BASINS.

2. EVALUATE THE CAPABILITIES AND LIMITATIONS OF THE SOIL TO BE SEEDED. SPECIAL ATTENTION NEEDS TO BE GIVEN TO SOIL PH, TEXTURE, INTERNAL WATER MOVEMENT, STEEPNESS, AND STABILITY IN ORDER TO PLAN THE APPROPRIATE TREATMENT.

3. FERTILIZER, LIME, SEEDED PREPARATION, SEED COVERAGE, MULCH, AND IRRIGATION SHOULD BE USED AS NECESSARY TO PROMOTE QUICK PLANT GROWTH.

4. VEGETATION CANNOT NOT BE EXPECTED TO PROVIDE EROSION CONTROL COVER AND PREVENT SOIL SLIPPAGE ON A SOIL THAT IS NOT STABLE DUE TO ITS STRUCTURE, WATER MOVEMENT, OR EXCESSIVE SLOPE.

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3. PLANT SPECIES SHOULD BE SELECTED ON THE BASIS OF QUICK GERMINATION, GROWTH, AND TIME OF YEAR TO BE SEEDED.

4. FERTILIZER, LIME, SEEDED PREPARATION, SEED COVERAGE, MULCH, AND IRRIGATION SHOULD BE USED AS NECESSARY TO

SPECIFICATIONS

I. SITE PREPARATION

A. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND ANCHORING.

B. INSTALL THE NEEDED EROSION CONTROL PRACTICES PRIOR TO SEDDING SUCH AS DIVERSIONS, TEMPORARY WATERWAYS FOR DIVERSIONS OUTLETS, AND SEDIMENT BASINS.

II. SEEDED PREPARATION

A. LIME (IN LIEU OF A SOIL TEST RECOMMENDATION) ON ACID SOIL (PH 5.5 OR LOWER) AND SUBSOIL AT A RATE OF 100 POUNDS PER 1000 SQUARE FEET OR TWO TONS PER ACRE OF AGRICULTURAL GROUND LIMESTONE. FOR BEST RESULTS MAKE A SOIL TEST.

B. FERTILIZER (IN LIEU OF A SOIL TEST RECOMMENDATION) SHALL BE APPLIED AT A RATE OF 12-15 POUNDS PER 1000 SQUARE FEET OR 500-600 POUNDS PER ACRE OF 10-10-10 OR 12-12-12 ANALYSIS. FOR BEST RESULTS MAKE A SOIL TEST.

C. WORK THE LIME AND FERTILIZER INTO THE SOIL WITH A DISK HARROW, SPRINGTOOTH HARROW, OR SIMILAR TOOLS TO A DEPTH OF TWO INCHES. ON SLOPING AREAS THE FINAL OPERATION SHALL BE ON THE CONTOUR.

III. SEEDING

A. SPECIES SELECTION 1 PER 1000 SQUARE FEET PER ACRE
1. OATS 3 LBS.
2. PERENNIAL RYEGRASS 1 LB.
3. TALL FESCUE 1 LB.

4. TALL FESCUE 10-10-10 500 12
5. C. WORK THE LIME AND FERTILIZER INTO THE SOIL WITH A DISK HARROW, SPRINGTOOTH HARROW, OR OTHER SUITABLE FIELD EQUIPMENT TO A DEPTH OF THREE INCHES. ON SLOPING LAND THE FINAL OPERATION SHALL BE ON THE CONTOUR.

IV. SEEDING

A. SELECT A SPECIES OR MIXTURE APPROPRIATE FOR THE SITE.

1. PERMANENT SEEDING
KIND OF SEED 1/ SEEDING DATES 2/ PER 1000 SQUARE FT. PER ACRE

A. CREEPING RED FESCUE, PLUS DOMESTIC RYEGRASS PLUS KENTUCKY BLUEGRASS
MARCH 1 TO AUGUST 15TH 1/2 LB. 20 LBS.
1. 4. TALL FESCUE 1 LB. 40 LBS.

1) OTHER SEED SPECIES MAY BE SUBSTITUTED CHECK WITH THE LOCAL SCS OFFICE FOR RECOMMENDATIONS.

2) AFTER NOVEMBER 1, USE MULCH ONLY. SEE STANDARD AND SPECIFICATIONS FOR MULCHING.

B. APPLY THE SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER. (SLURRY MAY INCLUDE SEED AND FERTILIZER) PREFERABLY ON A FIRM, MOIST SEEDBED. SEED WHEAT OR RYE NO DEEPER THAN ONE INCH. SEED RYEGRASS NO DEEPER THAN ONE-FOURTH INCH.

C. WHEN FEASIBLE, EXCEPT WHERE A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHEREVER POSSIBLE.

V. MULCHING

A. MULCHING SHALL BE APPLIED TO PROTECT THE SOIL AND PROVIDE A BETTER ENVIRONMENT FOR PLANT GROWTH.

B. MULCH SHALL CONSIST OF SMALL GRAN STRAW (PREFERABLY WHEAT OR RYE) AND SHALL BE APPLIED AT THE RATE OF TWO TONS PER ACRE OR 100 POUNDS (TWO TO THREE BALES) PER 1000 SQUARE FEET.

C. SPREAD THE MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.

D. MULCH ANCHORING METHODS:

1. MECHANICAL - USE A DISK, CRIMPER, OR SIMILAR TYPE TOOL SET STRAIGHT TO PUNCH OR ANCHOR THE MULCH MATERIAL INTO THE SOIL.

2. ASPHALT EMULSION - APPLY AT THE RATE OF 160 GALLONS PER ACRE.

3. MULCH NETTINGS - USE ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS. USE IN AREAS OF WATER CONCENTRATION TO HOLD MULCH IN PLACE.

VI. IRRIGATION

IF SOIL MOISTURE IS DEFICIENT, SUPPLY NEW SEEDINGS WITH ADEQUATE WATER FOR PLANT GROWTH UNTIL THEY ARE FIRMLY ESTABLISHED. THIS IS ESPECIALLY TRUE WHEN SEEDINGS ARE MADE LATE IN THE PLANTING SEASON, IN ANABOLICALLY DRY OR HOT SEASONS, OR ON ADVERSE SITES.

THE FOLLOWING METHODS MAY BE USED TO MAKE A "DORMANT" SEEDING:

1. FROM OCTOBER 1 THROUGH NOVEMBER 20, PREPARE THE SEEDBED, ADD THE REQUIRED AMOUNTS OF LIME AND FERTILIZER THEN MULCH AND ANCHOR. AFTER NOVEMBER 20, AND BEFORE MARCH 15, THE SELECTED SEED MIXTURE, INCREASE THE SEEDING RATES BY 50 PERCENT. INCREASE THE SEEDING RATES BY 50 PERCENT FOR THIS TYPE OF SEEDING.

2. FROM NOVEMBER 20 THROUGH MARCH 15, WHEN SOIL CONDITIONS PERMIT, PREPARE THE SEEDBED, LIME AND FERTILIZE, APPLY THE SELECTED SEED MIXTURE, AND MULCH AND ANCHOR. INCREASE THE SEEDING RATES BY 50 PERCENT FOR THIS TYPE OF SEEDING.

C. APPLY SEED UNIFORMLY WITH A CYCLONE SEEDER, DRILL, CULTIPACKER SEEDER, OR HYDROSEEDER (SLURRY MAY INCLUDE SEED AND FERTILIZER) PREFERABLY ON A FIRM, MOIST SEEDBED. COVER TO A DEPTH OF 1/4 TO 1/2 INCH.

D. WHERE FEASIBLE, EXCEPT WHEN A CULTIPACKER TYPE SEEDER IS USED, THE SEEDBED SHOULD BE FIRMED FOLLOWING SEEDING OPERATIONS WITH A CULTIPACKER, ROLLER, OR LIGHT DRAG. ON SLOPING LAND SEEDING OPERATIONS SHOULD BE ON THE CONTOUR WHERE FEASIBLE.

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C. SPREAD THE MULCH UNIFORMLY BY HAND OR MECHANICALLY SO THE SOIL SURFACE IS COVERED.

D. PLANT SPECIES SHOULD BE SELECTED ON THE BASIS OF SOIL, PLANTED USE OF THE AREA, AND THE AMOUNT OR DEGREE OF MAINTENANCE THAT CAN BE DEVOTED TO THE AREA IN THE FUTURE.

4. FERTILIZER, LIME, SEEDED PREPARATION, SEED COVERAGE, MULCH, AND IRRIGATION SHOULD BE USED AS NECESSARY TO PROMOTE QUICK PLANT GROWTH.

5. VEGETATION CANNOT NOT BE EXPECTED TO PROVIDE EROSION CONTROL COVER AND PREVENT SOIL SLIPPAGE ON A SOIL THAT IS NOT STABLE DUE TO ITS STRUCTURE, WATER MOVEMENT, OR EXCESSIVE SLOPE.

SPECIFICATIONS

I. SITE PREPARATION

A. SOIL MATERIAL SHOULD CONSIST OF AT LEAST 25 PERCENT SILT AND CLAY TO PROVIDE AN ADEQUATE AMOUNT OF MOISTURE HOLDING CAPACITY. AN EXCESSIVE AMOUNT OF PORDOUS SAND WILL CONSISTENTLY PROVIDE SUFFICIENT MOISTURE FOR GOOD GROWTH GROWTH REGARDLESS OF OTHER SOIL FACTORS.

B. WHERE COMPACTED SOILS OCCUR, THEY SHOULD BE BROKEN UP SUFFICIENTLY TO CREATE A FAVORABLE ROOTING DEPTH OF 6-8 INCHES.

C. STOCKPILE TOPSOIL TO APPLY TO SITES THAT ARE OTHERWISE UNSUITED FOR ESTABLISHING VEGETATION.

D. GRADE AS NEEDED AND FEASIBLE TO PERMIT THE USE OF CONVENTIONAL EQUIPMENT FOR SEEDED PREPARATION, SEEDING, MULCH APPLICATION, AND ANCHORING.

E. USE THE NEEDED EROSION CONTROL PRACTICES SUCH AS DIVERSIONS, GRASSED WATERWAYS, AND SEDIMENT BASINS.

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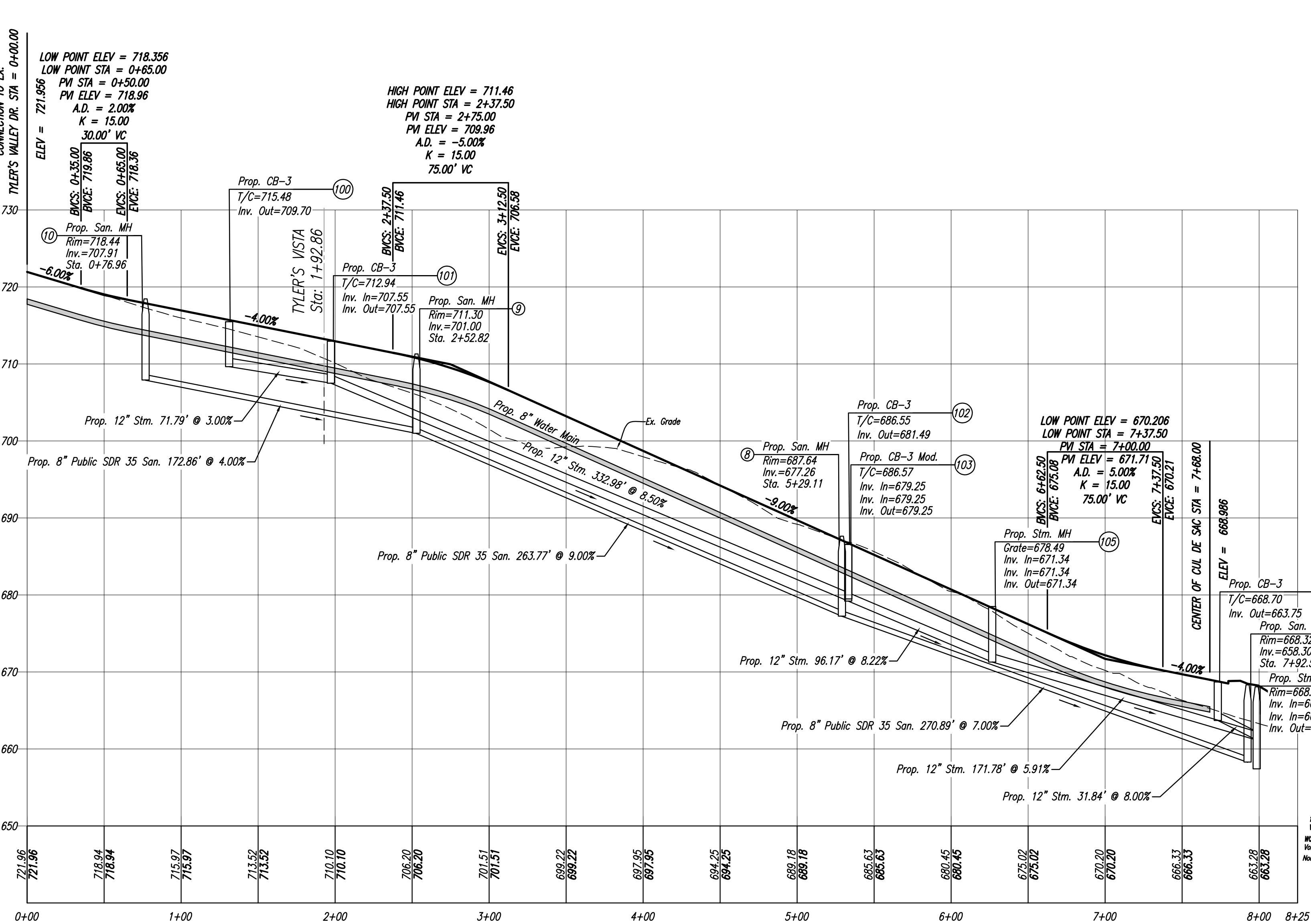
X. CONDITIONS & DEMO PLAN	
TYLER'S VISTA SECTION-12, TOWN-2, RANGE-2 10501 SHOOTER TOWNSHIP	
REVISIONS PER COUNTY COMMENTS 5-17-18	
4-16-18	
Drawn By	M.G.
Checked By	21

REVISIONS PER COUNTY COMMENTS 5-17-18

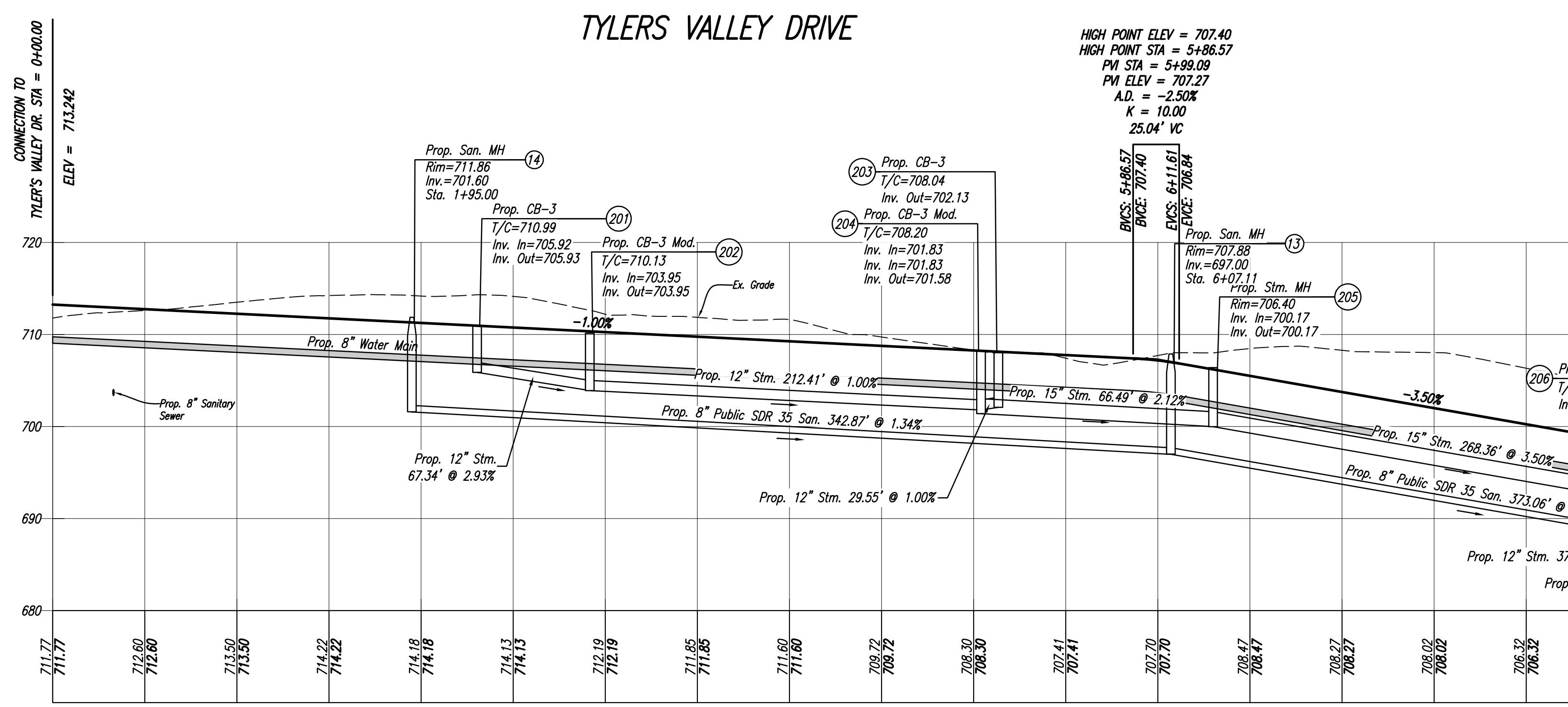
REVISIONS PER COUNTY COMMENTS 5-17-1

TYLER'S VISTA CONSTRUCTION CONDITIONS & DEMO PLAN

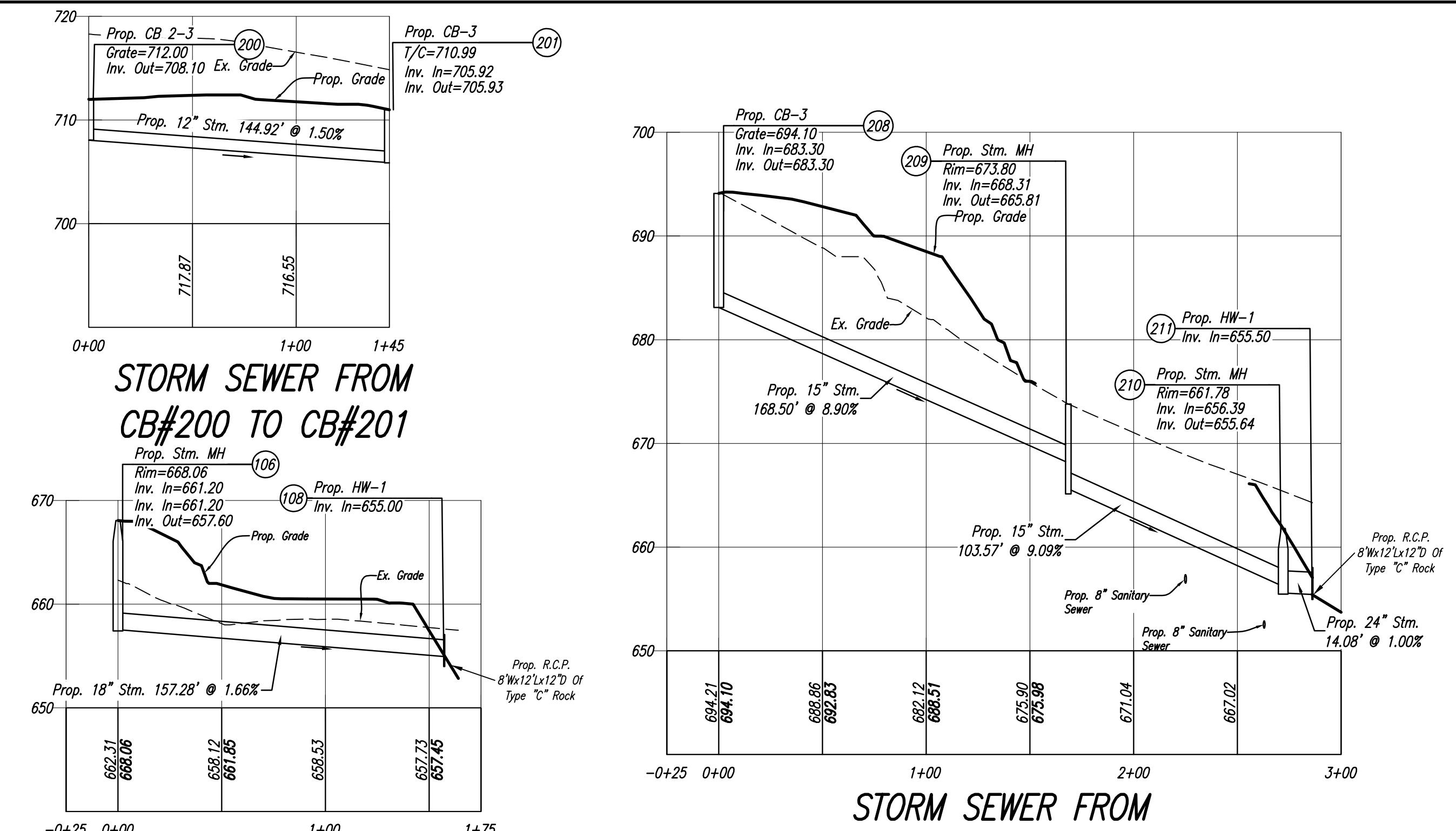
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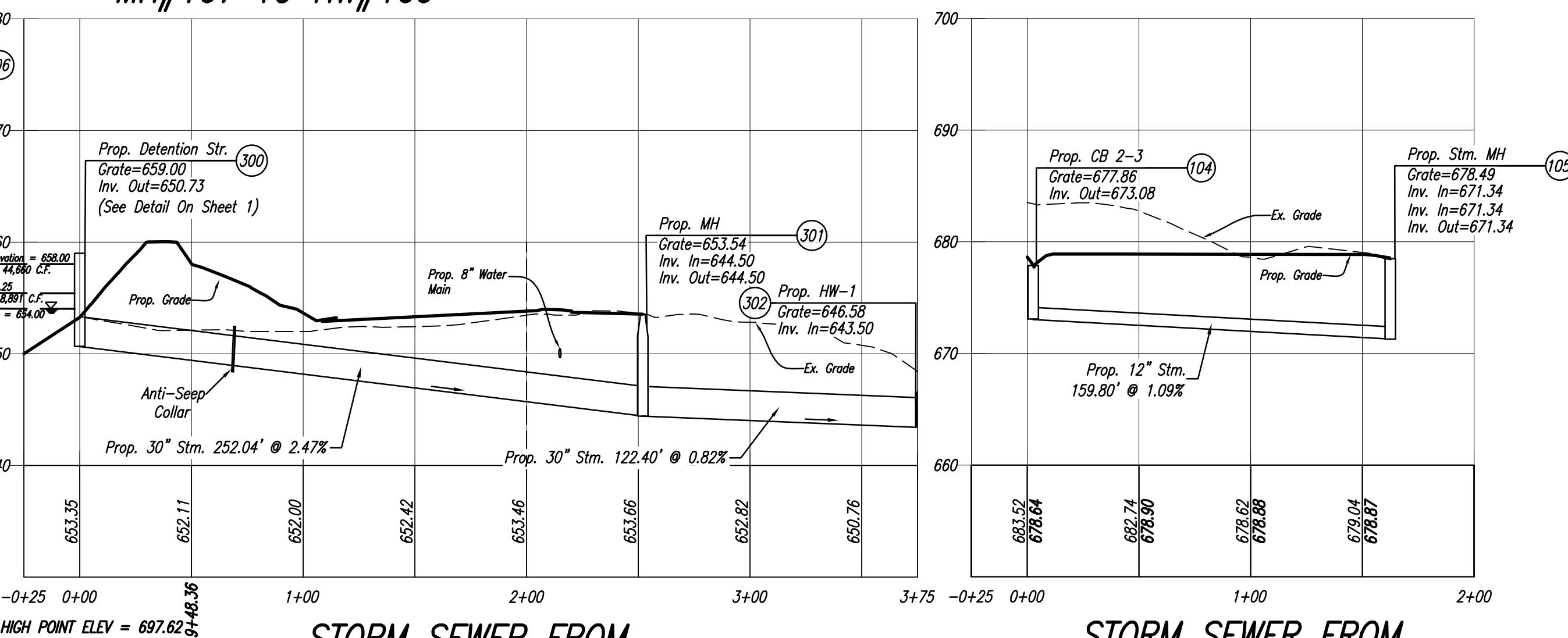
TYLERS VALLEY DRIVE



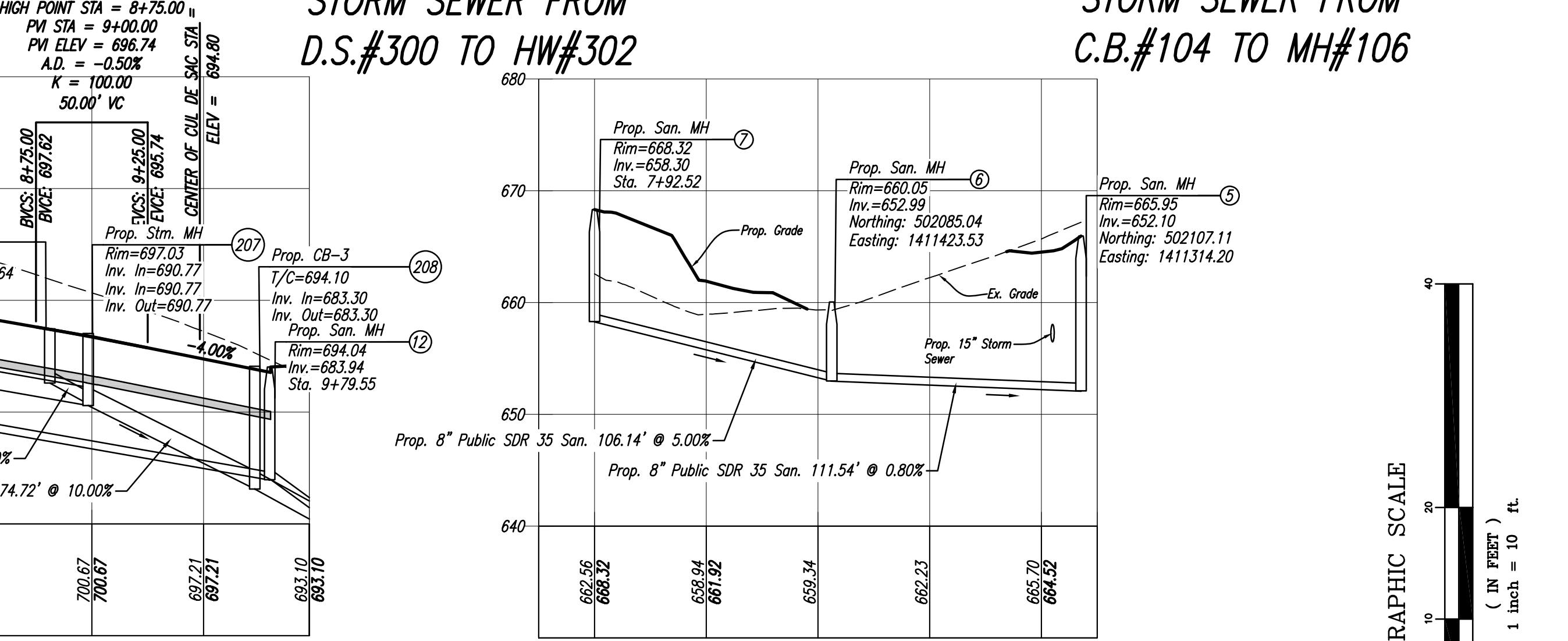
TYLERS VISTA



+25 0+00 1+00
**STORM SEWER FROM
MH#107 TO HW#109**



1700
*STORM SEWER FROM
C.B.#104 TO MH#106*



SANITARY SEWER FROM MH#7 TO MH#5

