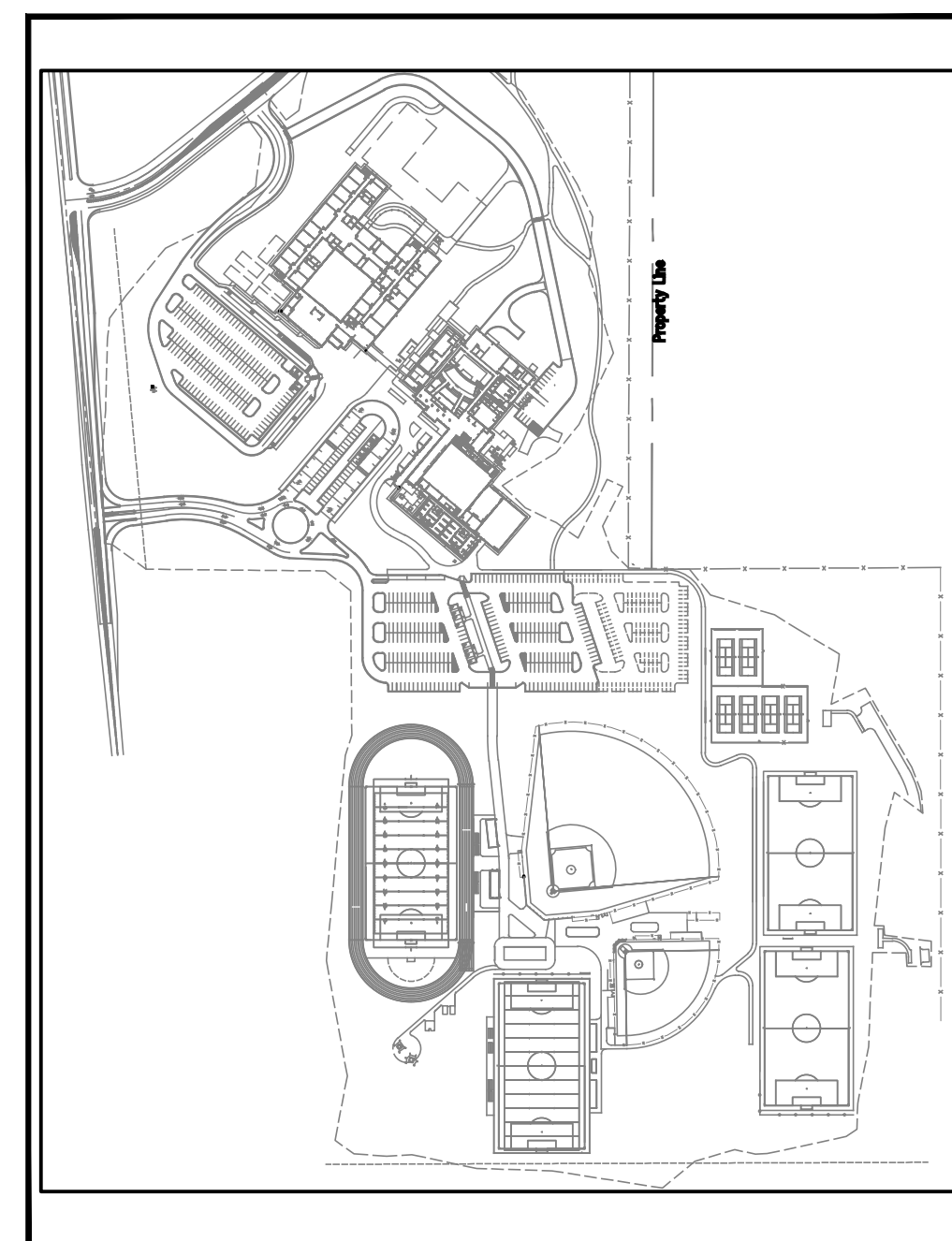
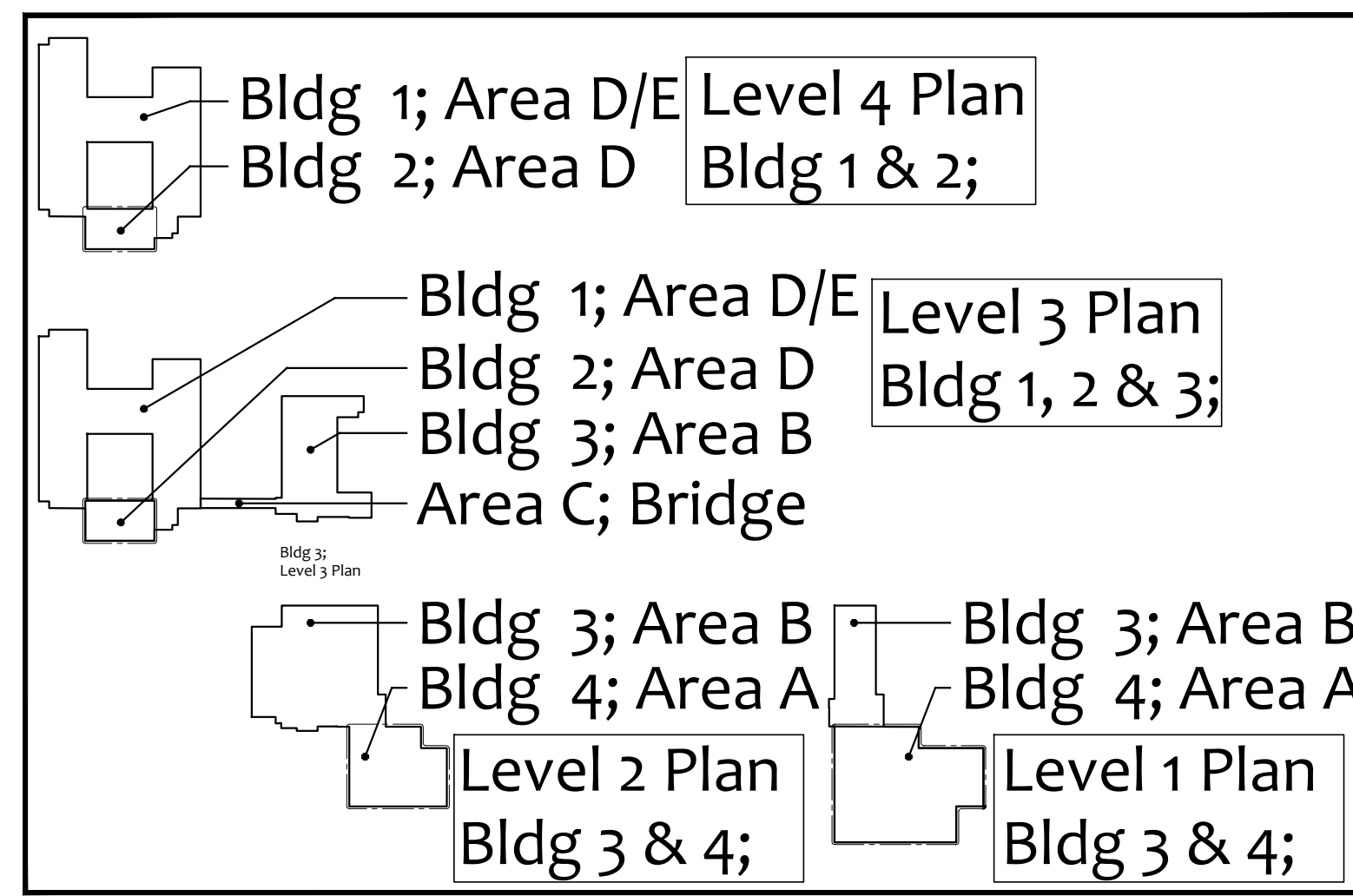


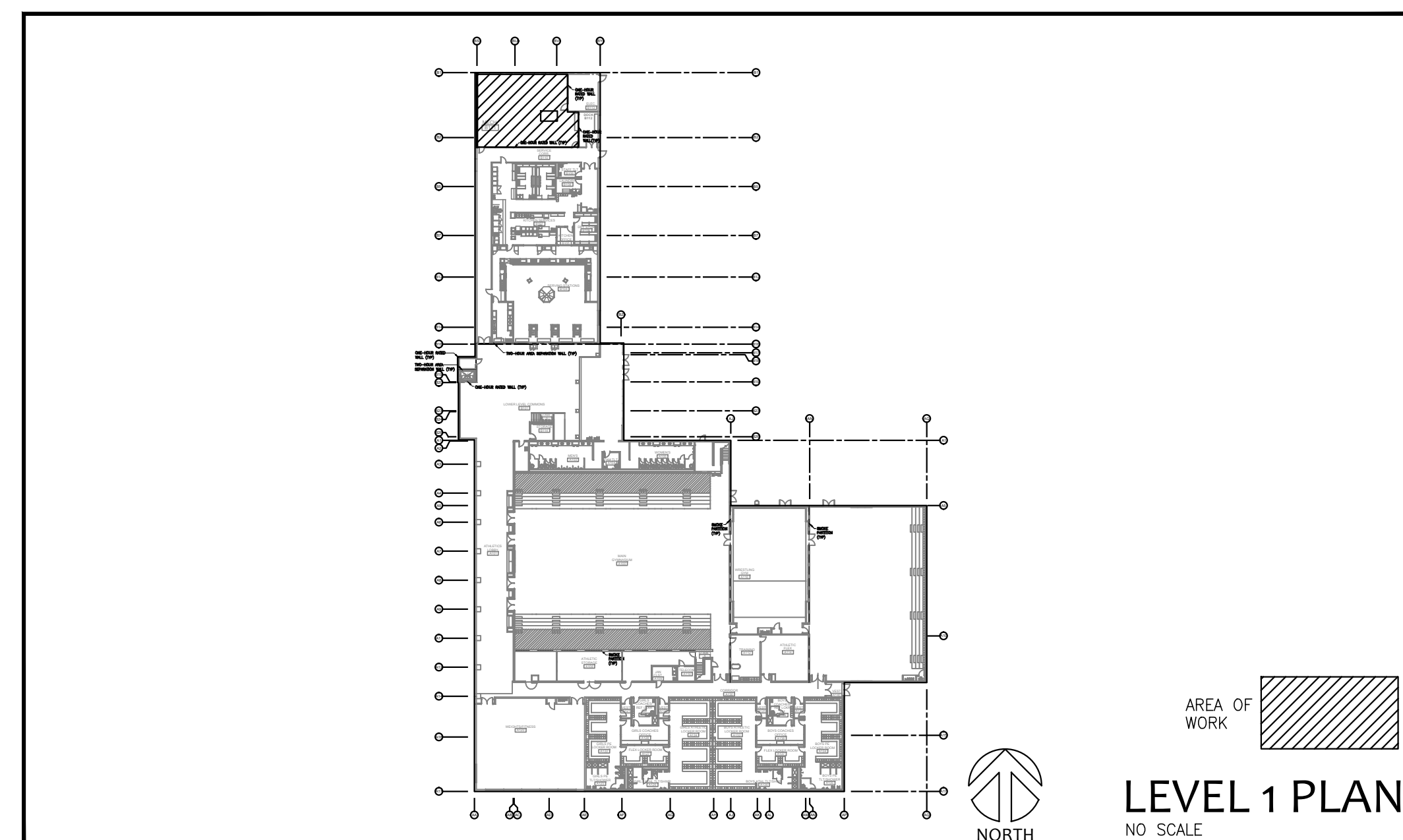
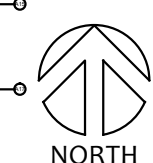
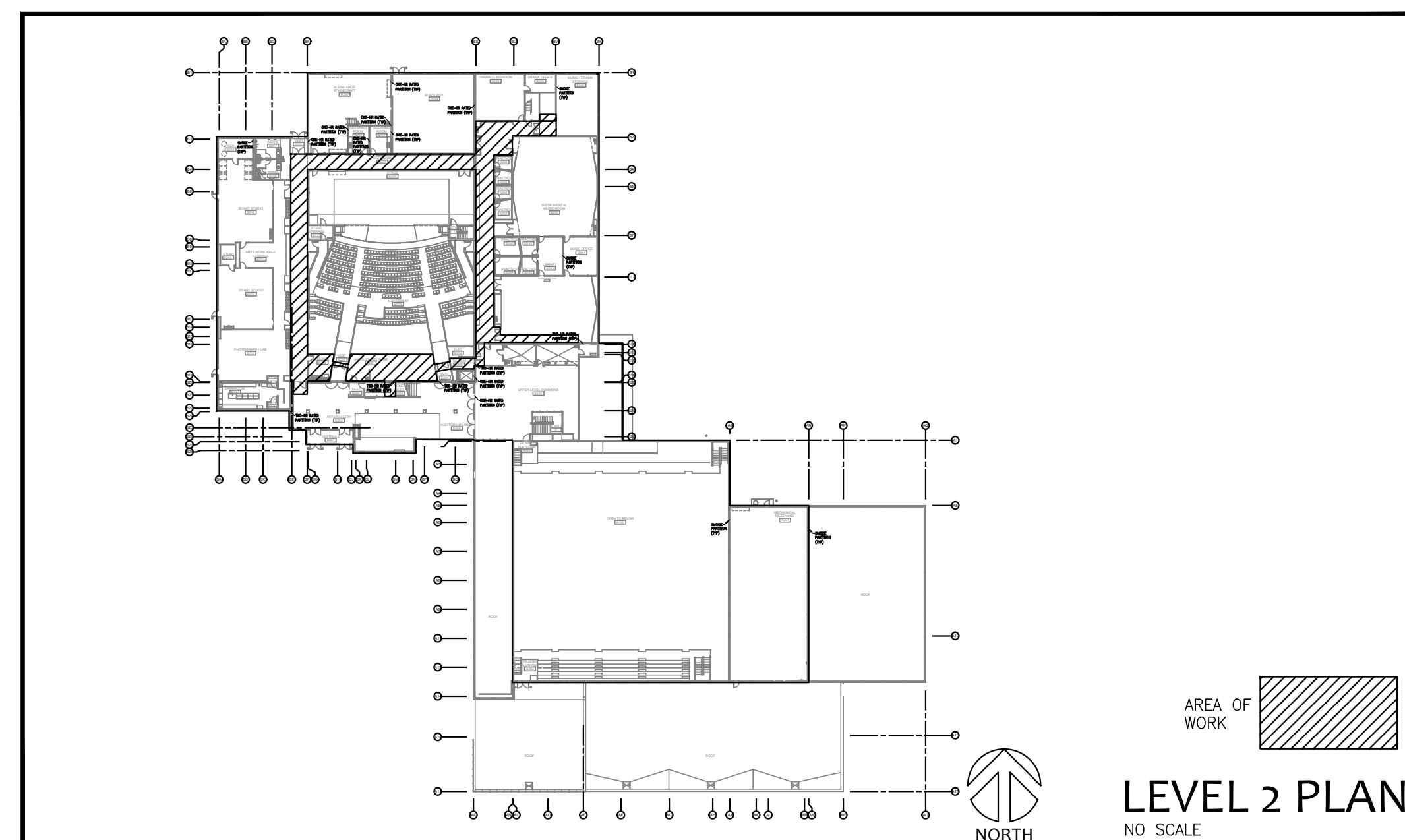
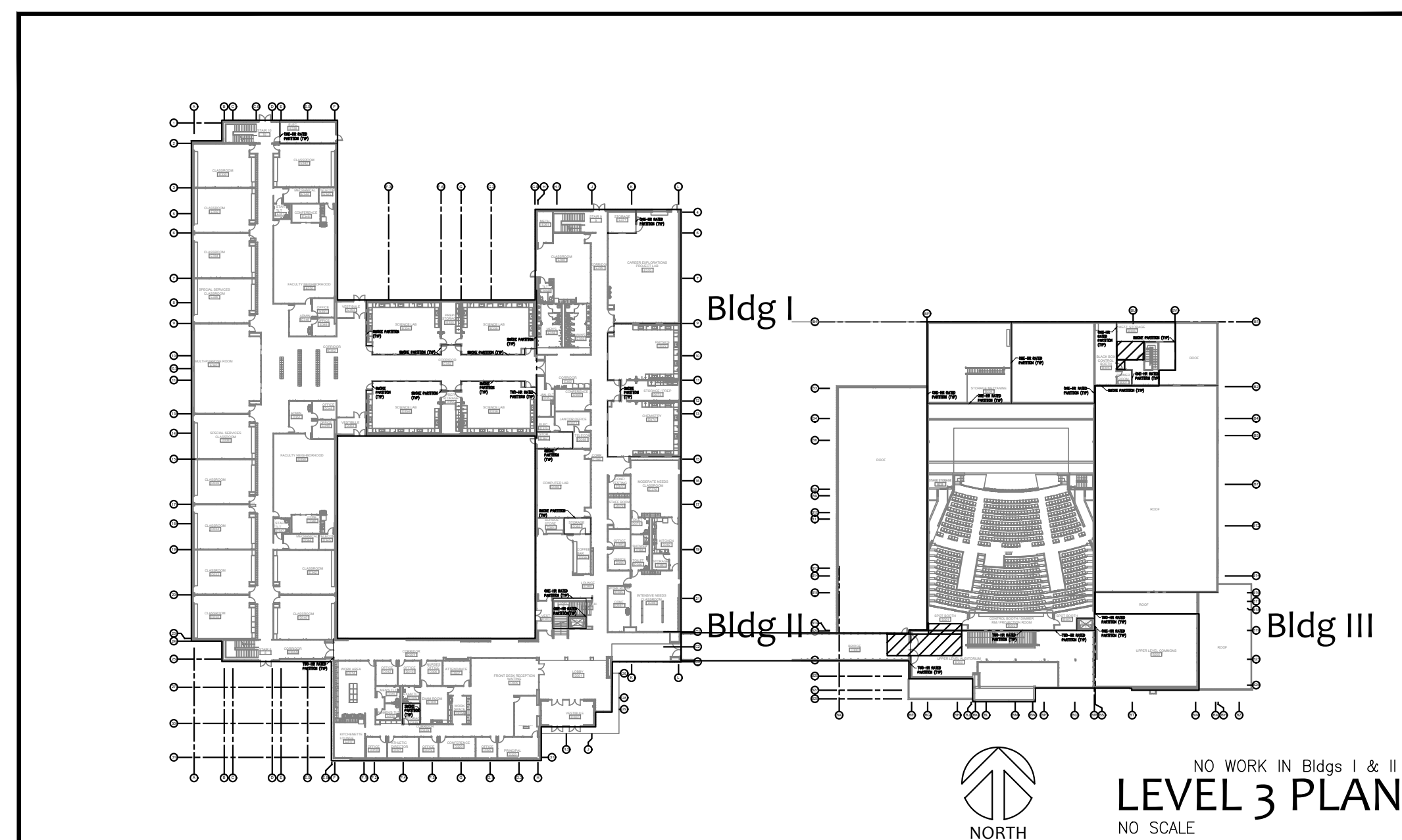
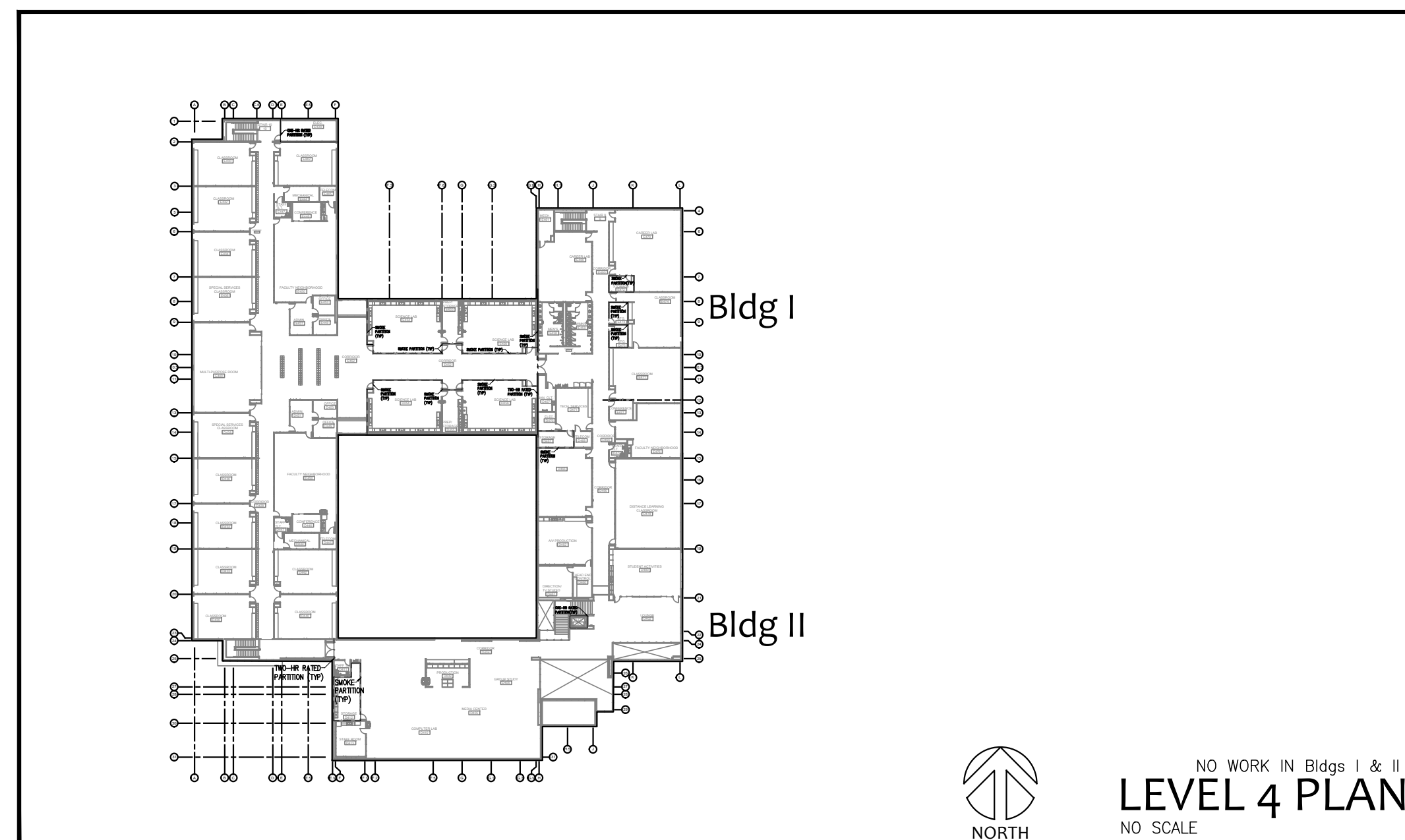
PROJECT LOCATION MAP NO SCALE



PROJECT SITE PLAN NO SCALE



BUILDINGS KEY PLAN NO SCALE



CODE REVIEW

GOVERNING CODES
NOTE: These are the current Codes applicable to the mechanically-focused, Project-specific Scope of Work.

- 2015 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL MECHANICAL CODE
- 2017 NATIONAL ELECTRICAL CODE
- 2015 INTERNATIONAL ENERGY CONSERVATION CODE
- 2017 PIKES PEAK REGIONAL BUILDING CODE

NOTE: There have been no alterations to the original construction of the building(s) on the School Campus.

NOTE: The original construction of the School occurred in 2007-2008. The applicable codes at the time of construction were as follows:

- 2003 International Building Code
- Uniform Fire Code
- 2003 International Mechanical Code
- 2003 International Plumbing Code
- 2005 National Electrical Code
- Statutory design requirements CRS 9-5-101-110, 9-1-101-106, 9-2-101-105
- Colorado Department of Health "Rules and Regulations Governing Schools in the State of Colorado" (07/30/89)
- Colorado Department of Health "Rules and Regulations Governing the Sanitation of Food Service Establishments in the State of Colorado; (07/30/89)
- Other regulations of the Colorado Department of Health as enforced by local Department of Health including, but not limited to:
 - Colorado Primary Drinking Water Regulations
 - Water Quality - Cross connection Control
 - Asbestos
 - Hazardous Materials
- ANSI/ASME A17.1 Safety Code of Elevators
- ANSI/A117.1 Accessibility & Usability for Physically Handicapped People. (1998)
- Americans with Disabilities Act (ADA) 1991
- ASHRAE/IESNA Standard 90.1-1999
- National Fire Codes, National Fire Protection Association (NFPA):
 - NFPA 13 (1999). Installation of Sprinkler Systems
 - NFPA 54 (1999). National Fuel Gas Code
 - NFPA 101 (2000). Safety to Life from Fire in Buildings
- Concurrent adopted code(s) as set forth by the Public Safety Section, Department of Labor & Employment and State of Colorado.

NOTE: The following information was indicated on the original construction drawings. It is provided for informational purposes only. There have been no changes to the Building areas or the described uses of spaces within the existing Building(s).

OCCUPANCY

- GROUP A-1; AUDITORIUM
- GROUP A-3; COMMONS, MEDIA CENTER
- GROUP A-4; MAIN AND AUXILIARY GYMNASIUM
- GROUP E; CLASSROOMS, SMALL CONFERENCE ROOMS
- GROUP B; OFFICES, TEACHER OFFICES
- GROUP S-1; STORAGE ROOMS FOR BOOKS, PAPER, FURNITURE

CONSTRUCTION TYPE

- II-B;
- AUTOMATIC FIRE SPRINKLER SYSTEM THROUGHOUT THE ENTIRE BUILDING, AS REQUIRED PER ORIGINAL CONSTRUCTION; 2003 IBC SECTION 903.2.1.3.
"an automatic sprinkler system shall be provided for fire areas containing Group A-3 occupancies and intervening floors of the building where one of the following conditions exists: the fire area exceeds 12,000 square feet, the fire area has an occupant load of 300 or more, the fire area is located on a floor other than a level of exit discharge serving such occupancies."

BUILDING HEIGHTS

- LEVEL 1; 15'-0"
- LEVEL 2; 20'-0"
- COMBINED LEVEL 1 AND 2; 35'-0" (SEE FLOOR PLANS ON THIS SHEET)
- LEVEL 3; 15'-4"
- LEVEL 4; 16'-0"
- COMBINED LEVEL 3 AND 4; 31'-4" (SEE FLOOR PLANS ON THIS SHEET)

BUILDING AREAS, BY BUILDING DESIGNATION

- BLDG 1; 61,032 SF
- BLDG 2; 54,280 SF
- BLDG 3; 43,580 SF
- BLDG 4; 60,478 SF
- TOTAL; 219,370 SF

BUILDING AREAS, BY BUILDING LEVELS

- LEVEL 1; 56,742 SF
- LEVEL 2; 47,316 SF
- LEVEL 3; 59,468 SF
- LEVEL 4; 55,846 SF
- TOTAL; 219,370 SF

BUILDING AREAS, BY BUILDING DESIGNATION AND FLOOR LEVEL

- FIRST FLOOR (LEVEL 1)-BLDG I=0 SF, BLDG II=0 SF, BLDG III=10,007 SF, BLDG IV=46,735 SF
- SECOND FLOOR (LEVEL 2)-BLDG I=0 SF, BLDG II=0 SF, BLDG III=33,573 SF, BLDG IV=13,743 SF
- THIRD FLOOR (LEVEL 3)-BLDG I=30,516 SF, BLDG II=28,950 SF, BLDG III=0 SF, BLDG IV=0 SF
- FOURTH FLOOR (LEVEL 4)-BLDG I=30,516 SF, BLDG II=25,330 SF, BLDG III=0 SF, BLDG IV=0 SF

BUILDING 1; LEVEL 3 AND 4; CLASSROOMS

- AREA INCREASES FOR FRONTAGE PER 2003 IBC, Section 506.2;
 - 1.1. Frontage Increase = 100 (595/957-0.25) 30/30
 - 1.2. 37.17% Increase
- AREA INCREASES FOR AUTOMATIC FIRE SPRINKLER SYSTEM;
 - 2.1. 200% for Multi-Story Building
- ALLOWABLE AREA
 - 3.1. 14,500 (basic) + 14,500 * 37.17/100 (f) + 14,500 * 200/100 (fs) = 48,890 SF
 - 3.2. 48,890 SF > 30,516 SF, OK
- ACTUAL AREA OF BLDG 1;

EXISTING SITE UTILITY CONTACT INFORMATION

- NATURAL GAS
 - 1.1. BLACK HILLS ENERGY
 - 1.2. BOB SWATEK; CONSTRUCTION COORDINATOR
 - 1.3. (719) 332-5856
 - 1.4. bob.swatek@blackhillscorp.com
- ELECTRICITY
 - 2.1. MOUNTAIN VIEW ELECTRIC ASSOCIATION
 - 2.2. DAN SCHROEDER; OPERATIONS CONSTRUCTION COORDINATOR
 - 2.3. (719) 494-2668

LEVEL	SQUARE FEET	NUMBER OF OCC	EXIT/WIDTH REQ'D	EXIT/WIDTH PROV'D
1	57,078 SF (Gross)	3012	451.8"	466"
2	30,108 SF (Gross)	1865	282.75"	454"
3	74,941 SF (Gross)	1290	193.5"	672"
4	55,581 SF (Gross)	1406	210.9"	241"
Courtyard	10,000 SF (Gross)	666	100"	144"

Occupancy Count (Based upon 2003 IBC, Section 1004.1.2)
ACADEMIC WING; Buildings 1 AND 2;
LEVEL 3; 1290 Occupants
LEVEL 4; 1406 Occupants
Total; 2696 Occupants

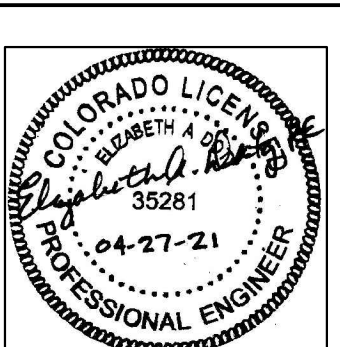
ATHLETIC WING; Buildings 3 AND 4;
LEVEL 1; 3012 Occupants
LEVEL 2; 1865 Occupants
Total; 4897 Occupants



BDK Engineering, PLLC
Beth A. Doherty, PE
bob@bdkeng.com
www.bdkeng.com

Palmer Ridge High School, Lewis Palmer SD-38
19255 Frontage (Monument Hill) Road
Monument, CO 80132
GSHP Remedial Renovation

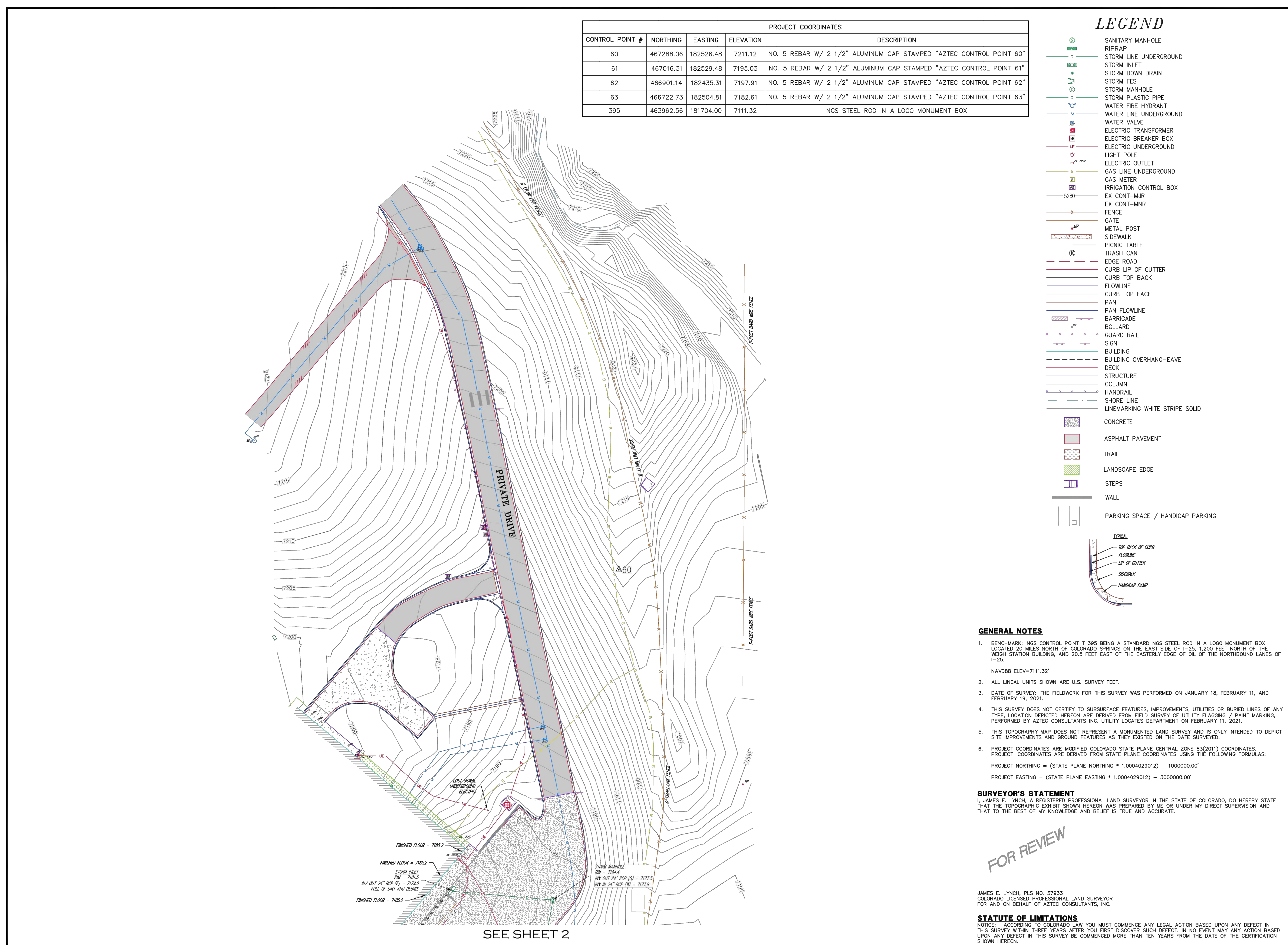
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Cover Sheet
Code Review

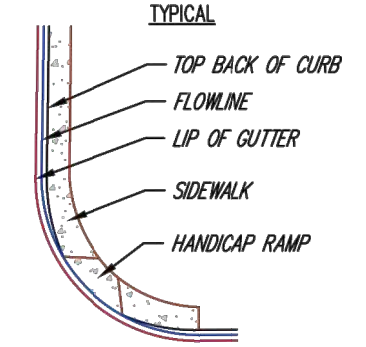
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PROJECT COORDINATES				
CONTROL POINT #	NORTHING	EASTING	ELEVATION	DESCRIPTION
60	467288.06	182526.48	7211.12	NO. 5 REBAR W/ 2 1/2" ALUMINUM CAP STAMPED "AZTEC CONTROL POINT 60"
61	467016.31	182529.48	7195.03	NO. 5 REBAR W/ 2 1/2" ALUMINUM CAP STAMPED "AZTEC CONTROL POINT 61"
62	466901.14	182435.31	7197.91	NO. 5 REBAR W/ 2 1/2" ALUMINUM CAP STAMPED "AZTEC CONTROL POINT 62"
63	466722.73	182504.81	7182.61	NO. 5 REBAR W/ 2 1/2" ALUMINUM CAP STAMPED "AZTEC CONTROL POINT 63"
395	463962.56	181704.00	7111.32	NGS STEEL ROD IN A LOGO MONUMENT BOX

- ### LEGEND
- SANITARY MANHOLE
 - RIPRAP
 - STORM LINE UNDERGROUND
 - STORM INLET
 - STORM DOWN DRAIN
 - STORM FES
 - STORM MANHOLE
 - STORM PLASTIC PIPE
 - WATER FIRE HYDRANT
 - WATER LINE UNDERGROUND
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 - ELECTRIC UNDERGROUND
 - LIGHT POLE
 - ELECTRIC OUTLET
 - GAS LINE UNDERGROUND
 - GAS METER
 - IRRIGATION CONTROL BOX
 - EX CONT-MJR
 - EX CONT-MNR
 - FENCE
 - GATE
 - METAL POST
 - SIDEWALK
 - PICNIC TABLE
 - TRASH CAN
 - EDGE ROAD
 - CURB LIP OF GUTTER
 - CURB TOP BACK
 - FLOWLINE
 - CURB TOP FACE
 - PAN
 - PAN FLOWLINE
 - BARRICADE
 - BOLLARD
 - GUARD RAIL
 - SIGN
 - BUILDING
 - BUILDING OVERHANG-EAVE
 - DECK
 - STRUCTURE
 - COLUMN
 - HANDRAIL
 - SHORE LINE
 - LINEMARKING WHITE STRIPE SOLID
 - CONCRETE
 - ASPHALT PAVEMENT
 - TRAIL
 - LANDSCAPE EDGE
 - STEPS
 - WALL
 - PARKING SPACE / HANDICAP PARKING



GENERAL NOTES

- BENCHMARK: NGS CONTROL POINT 395 BEING A STANDARD NGS STEEL ROD IN A LOGO MONUMENT BOX LOCATED 20 MILES NORTH OF COLORADO SPRINGS ON THE EAST SIDE OF 1-25, 1,200 FEET NORTH OF THE NEIGH STATION BUILDING, AND 20.5 FEET EAST OF THE EASTERLY EDGE OF OIL OF THE NORTHBOUND LANES OF I-25.
NAVD88 ELEV=7111.32'
- ALL LINEAL UNITS SHOWN ARE U.S. SURVEY FEET.
- DATE OF SURVEY: THE FIELDWORK FOR THIS SURVEY WAS PERFORMED ON JANUARY 18, FEBRUARY 11, AND FEBRUARY 19, 2021.
- THIS SURVEY DOES NOT CERTIFY TO SUBSURFACE FEATURES, IMPROVEMENTS, UTILITIES OR BURIED LINES OF ANY TYPE. LOCATION DEPICTED HEREON ARE DERIVED FROM FIELD SURVEY OF UTILITY FLAGGING / PAINT MARKING, PERFORMED BY AZTEC CONSULTANTS INC. UTILITY LOCATES DEPARTMENT ON FEBRUARY 11, 2021.
- THIS TOPOGRAPHY MAP DOES NOT REPRESENT A MONUMENTED LAND SURVEY AND IS ONLY INTENDED TO DEPICT SITE IMPROVEMENTS AND GROUND FEATURES AS THEY EXISTED ON THE DATE SURVEYED.
- PROJECT COORDINATES ARE MODIFIED COLORADO STATE PLANE CENTRAL ZONE 83(2011) COORDINATES. PROJECT COORDINATES ARE DERIVED FROM STATE PLANE COORDINATES USING THE FOLLOWING FORMULAS:
PROJECT NORTHING = (STATE PLANE NORTHING * 1.0004029012) - 1000000.00'
PROJECT EASTING = (STATE PLANE EASTING * 1.0004029012) - 30000000.00'

SURVEYOR'S STATEMENT

I, JAMES E. LYNCH, A REGISTERED PROFESSIONAL LAND SURVEYOR IN THE STATE OF COLORADO, DO HEREBY STATE THAT THE TOPOGRAPHIC EXHIBIT SHOWN HEREON WAS PREPARED BY ME OR UNDER MY DIRECT SUPERVISION AND THAT TO THE BEST OF MY KNOWLEDGE AND BELIEF IS TRUE AND ACCURATE.

STATUTE OF LIMITATIONS

NOTICE: ACCORDING TO COLORADO LAW YOU MUST COMMENCE ANY LEGAL ACTION BASED UPON ANY DEFECT IN THIS SURVEY WITHIN THREE YEARS AFTER YOU FIRST DISCOVER SUCH DEFECT. IN NO EVENT MAY ANY ACTION BASED UPON ANY DEFECT IN THIS SURVEY BE COMMENCED MORE THAN TEN YEARS FROM THE DATE OF THE CERTIFICATION SHOWN HEREON.

SCALE
1" = 30'

DATE
JEL
AMB
2021/02/19

SCALE: 1" = 30'

300 East Mineral Ave., Suite 1
Colorado Springs, CO 80904
Phone: (303) 713-1898
Fax: (303) 713-1897
www.aztecconsultants.com

TOPOGRAPHIC EXHIBIT
 PALMER RIDGE HIGH SCHOOL
 TOWN OF MONUMENT / COUNTY OF EL PASO

PREPARED FOR
 DIVERSIFIED CONSULTING SOLUTIONS, INC.
 2420 17TH ST. DENVER, CO 80202

SHEET
ONE

OF 2 SHEETS

JOB NO.
70521-01

FOR REVIEW

SEE SHEET 2

04-27-21

PERMIT SET

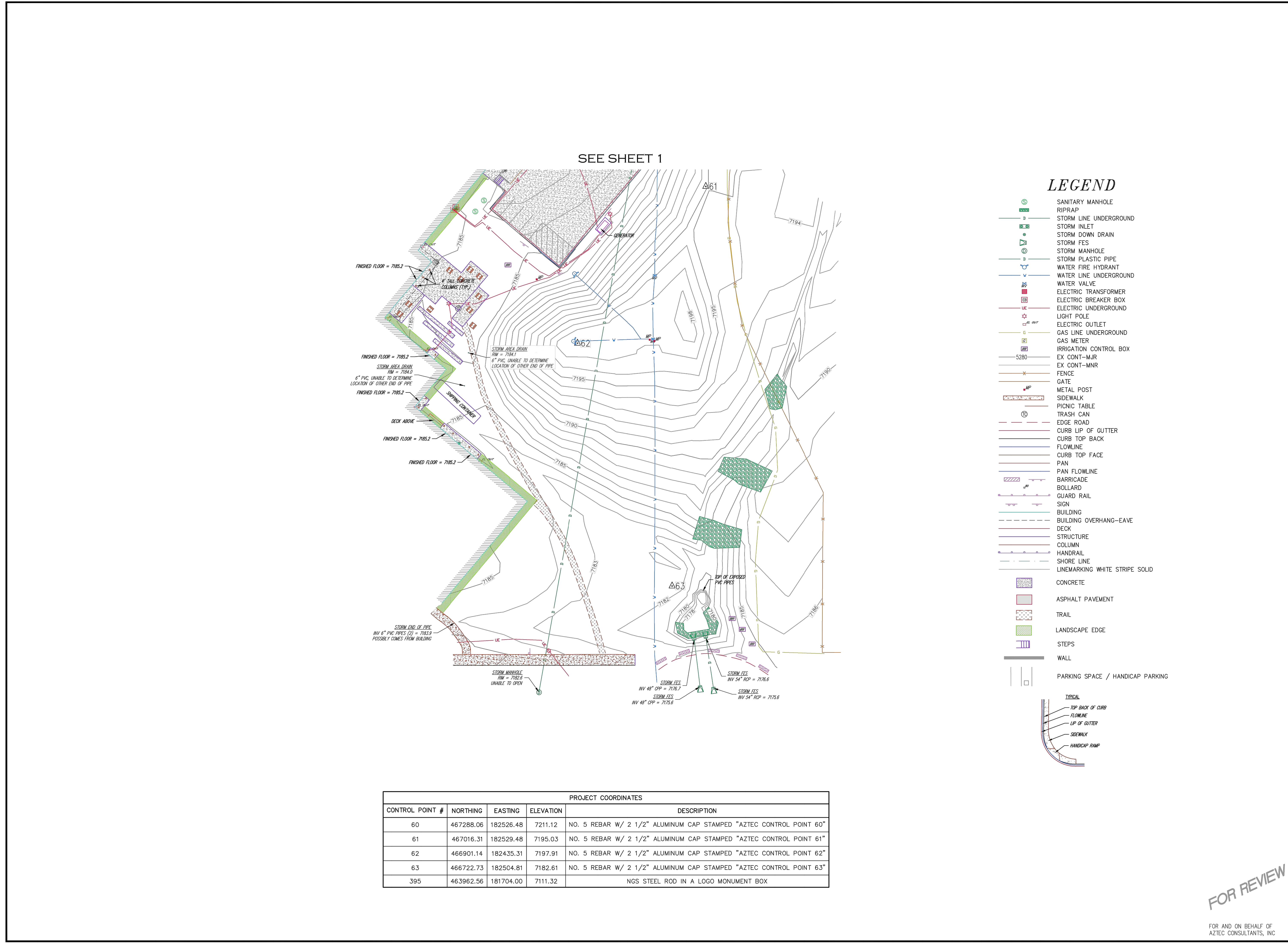
Palmer Ridge High School, Lewis Palmer SD-38
19255 Frontage (Monument Hill) Road
Monument, CO 80132
GSHP Remedial Renovation

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Phase 1
GHX / Ctrl Plant
EXISTING CONDITIONS PLAN

Phase 1
C-110

PLOT DATE: Tuesday, April 27, 2021, 4:40 PM. LAST SAVED BY: CONVISORSE
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SEE SHEET 1

LEGEND

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- RIPRAP
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SHEET
TWO
OF 2 SHEETS

70521-01
JOB NO.

FOR REVIEW

FOR AND ON BEHALF OF
AZTEC CONSULTANTS, INC.

04-27-21

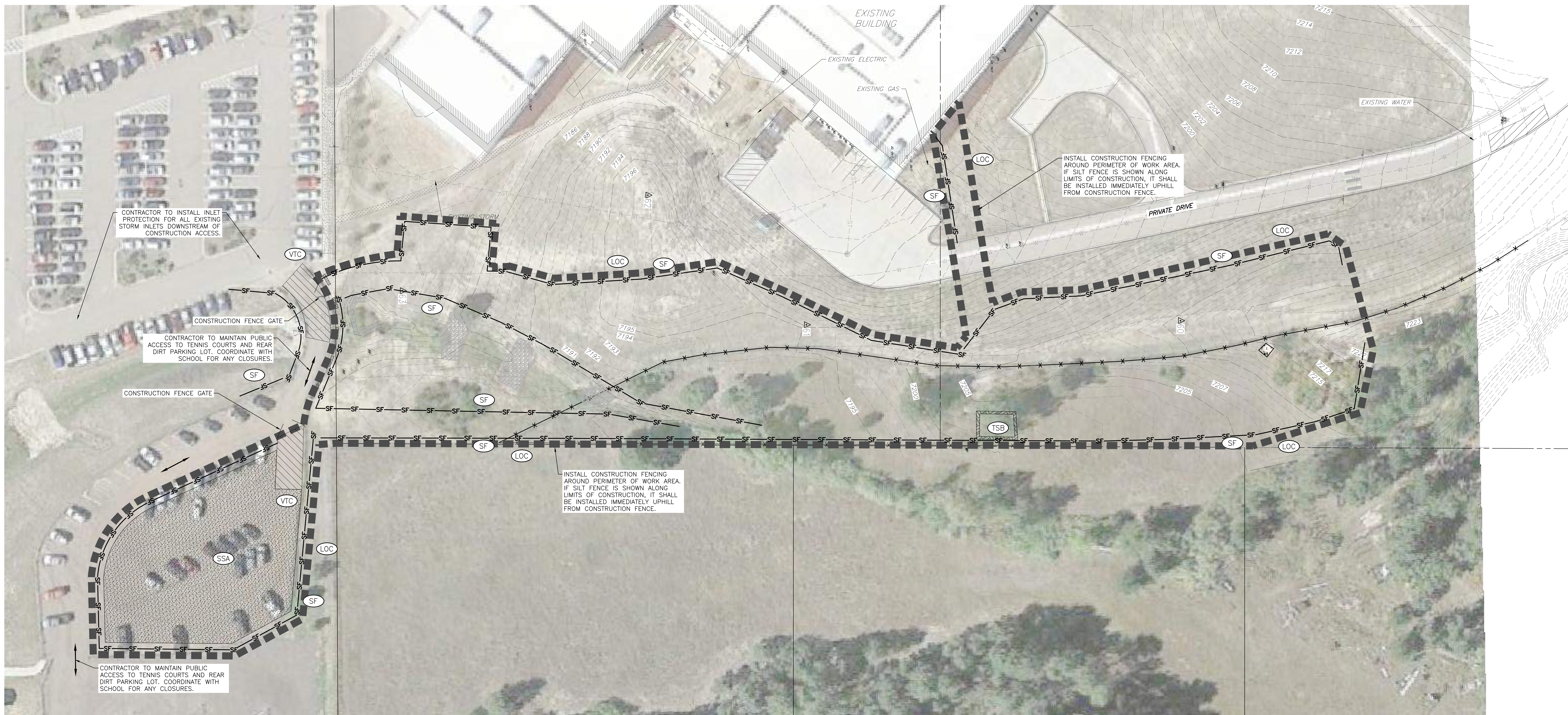
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Phase 1
 GHX / Ctrl Plant
 EXISTING
 CONDITIONS
 PLAN

Phase 1
C-111



STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- REVISED JULY 2019
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
 - NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
 - A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
 - ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
 - CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
 - ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
 - TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
 - FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLAN DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
 - ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT AFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
 - ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE, UNLESS INFEASIBLE.

- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY.
- DEWATERING OPERATIONS: UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT MAY NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
- THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
- THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
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- BULK STORAGE OF PETROLEUM PRODUCTS OR OTHER LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL HAVE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
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- ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.

- PRIOR TO ACTUAL CONSTRUCTION THE PERMITEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
- A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
- THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY TERRACON CONSULTANTS, INC. AND SHALL BE CONSIDERED A PART OF THESE PLANS.
- AT LEAST TEN (10) DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:
COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WOOD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

ENGINEER'S STATEMENT:

THIS GRADING AND EROSION CONTROL PLAN WAS PREPARED UNDER MY DIRECTION AND SUPERVISION AND IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. SAID PLAN HAS BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE COUNTY FOR GRADING AND EROSION CONTROL PLANS. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERRORS OR OMISSIONS ON MY PART IN PREPARING THIS REPORT.

ENGINEER OF RECORD SIGNATURE _____ DATE _____

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THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE GRADING AND EROSION CONTROL PLAN.

OWNER SIGNATURE _____ DATE _____

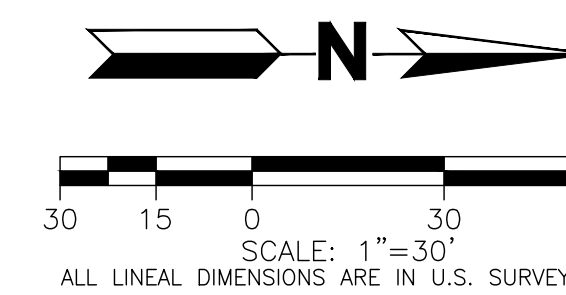
EL PASO COUNTY:
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FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

COUNTY PROJECT ENGINEER SIGNATURE _____ DATE _____

LEGEND

- SILT FENCE
- VEHICLE TRACKING CONTROL
- STABILIZED STAGING AREA
- STOCKPILE MANAGEMENT W/ PROTECTION
- TEMPORARY SEDIMENT BASIN
- LIMITS OF CONSTRUCTION / CONSTRUCTION FENCING
- SLOPE TRACKING
- SF
- VTC
- SSA
- SP
- TSB
- LOC
- ST



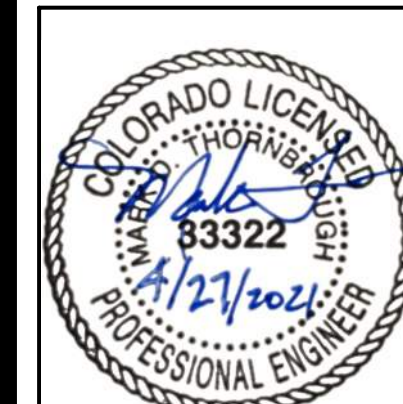
CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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04-27-21
PERMIT SET
MARTIN/MARTIN
303.831.6500

Palmer Ridge High School, Lewis Palmer SD-38
19255 Frontage (Monument Hill) Road
Monument, CO 80132
GSP Remedial Renovation

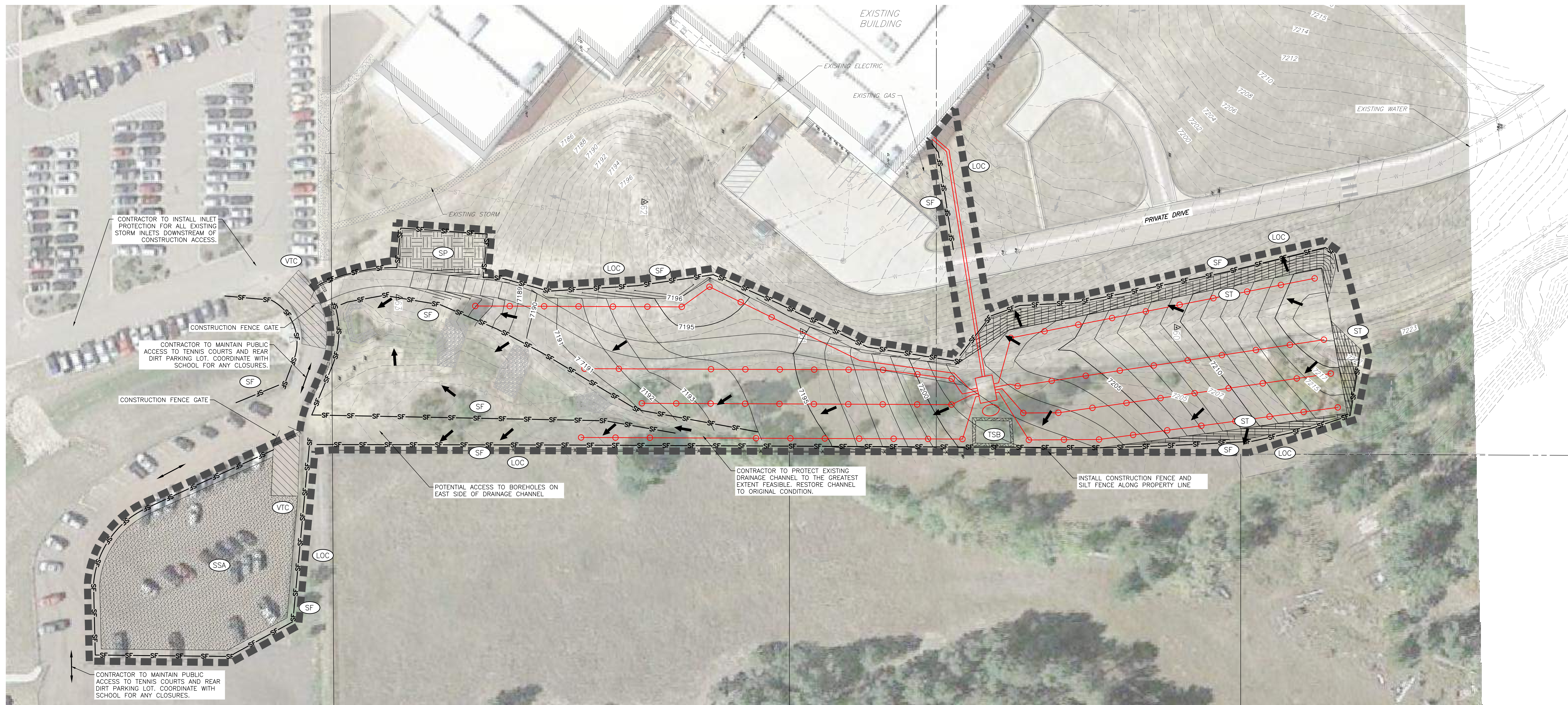
Ownership of Instruments of Service
All reports, plans, specifications, computer files, field data, notes and other documents and instruments prepared by the Engineer as instruments of service shall remain the property of the Engineer. The Engineer shall retain all common-law, statutory and other reserved rights, including the copyright thereto.



Phase 1
GHX / Ctrl Plant
INITIAL EROSION CONTROL PLAN

Phase 1
C-200

PLOT DATE: Tuesday, Aug 27, 2021, 4:40 PM. LAST SAVED BY: CONTINUOUS
 DRAWING LOCATION: C:\Users\martin\OneDrive\Desktop\EROSION_CONTROL_PLAN.rvt



STANDARD NOTES FOR EL PASO COUNTY GRADING AND EROSION CONTROL PLANS

- REVISED JULY 2019
- STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.
 - NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS TO REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
 - A SEPARATE STORMWATER MANAGEMENT PLAN (SWMP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR AND SHALL BE LOCATED ON SITE AT ALL TIMES DURING CONSTRUCTION AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
 - ONCE THE ESQCP IS APPROVED AND A "NOTICE TO PROCEED" HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL MEASURES AS INDICATED ON THE APPROVED GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY STAFF.
 - CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT MAY CONTRIBUTE POLLUTANTS TO STORMWATER. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.
 - ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED AND REMAIN IN EFFECTIVE OPERATING CONDITION UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND FINAL STABILIZATION IS ESTABLISHED. ALL PERSONS ENGAGED IN LAND DISTURBANCE ACTIVITIES SHALL ASSESS THE ADEQUACY OF CONTROL MEASURES AT THE SITE AND IDENTIFY IF CHANGES TO THOSE CONTROL MEASURES IS NEEDED TO ENSURE THE CONTINUED EFFECTIVE PERFORMANCE OF THE CONTROL MEASURES. ALL CHANGES TO TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES MUST BE INCORPORATED INTO THE STORMWATER MANAGEMENT PLAN PRIOR TO IMPLEMENTATION.
 - TEMPORARY STABILIZATION SHALL BE IMPLEMENTED ON DISTURBED AREAS AND STOCKPILES WHERE GROUND DISTURBING CONSTRUCTION ACTIVITY HAS PERMANENTLY CEASED OR TEMPORARILY CEASED FOR LONGER THAN 14 DAYS. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE STABILIZED.
 - FINAL STABILIZATION MUST BE IMPLEMENTED AT ALL APPLICABLE CONSTRUCTION SITES. FINAL STABILIZATION IS ACHIEVED WHEN ALL GROUND DISTURBING ACTIVITIES ARE COMPLETE AND ALL DISTURBED AREAS EITHER HAVE A UNIFORM VEGETATIVE COVER WITH INDIVIDUAL PLAN DENSITY OF 70 PERCENT OF PRE-DISTURBANCE LEVELS ESTABLISHED OR EQUIVALENT PERMANENT ALTERNATIVE STABILIZATION METHOD IS IMPLEMENTED. ALL TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE REMOVED UPON FINAL STABILIZATION AND BEFORE PERMIT CLOSURE.
 - ALL PERMANENT STORMWATER MANAGEMENT FACILITIES SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS. ANY PROPOSED CHANGES THAT EFFECT THE HYDROLOGY OR HYDRAULICS OF A PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.
 - ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY MINIMIZE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME. PRE-EXISTING VEGETATION SHALL BE PROTECTED AND MAINTAINED WITHIN 50 HORIZONTAL FEET OF A WATERS OF THE STATE, UNLESS INFEASIBLE.

- COMPACTION OF SOIL MUST BE PREVENTED IN AREAS DESIGNATED FOR INFILTRATION CONTROL MEASURES OR WHERE FINAL STABILIZATION WILL BE ACHIEVED BY VEGETATIVE COVER. AREAS DESIGNATED FOR INFILTRATION CONTROL SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED.
- ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE A STABILIZED CONVEYANCE DESIGNED TO MINIMIZE EROSION AND THE DISCHARGE OF SEDIMENT OFF SITE.
- CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUT SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY.
- DEWATERING OPERATIONS: UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT MAY NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF.
- EROSION CONTROL BLANKETING IS TO BE USED ON SLOPES STEEPER THAN 3:1.
- BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
- VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
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COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
WATER QUALITY CONTROL DIVISION
WQCD - PERMITS
4300 CHERRY CREEK DRIVE SOUTH
DENVER, CO 80246-1530
ATTN: PERMITS UNIT

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ENGINEER OF RECORD SIGNATURE _____ DATE _____
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COUNTY PROJECT ENGINEER SIGNATURE _____ DATE _____

LEGEND

	SILT FENCE	
	VEHICLE TRACKING CONTROL	
	STABILIZED STAGING AREA	
	STOCKPILE MANAGEMENT W/ PROTECTION	
	TEMPORARY SEDIMENT BASIN	
	LIMITS OF CONSTRUCTION/ CONSTRUCTION FENCING	
	SLOPE TRACKING	
	DRAINAGE FLOW ARROWS	
	GROUND HEAT EXCHANGER (GHX)	

SCALE: 1"=30'
ALL LINEAL DIMENSIONS ARE IN U.S. SURVEY FEET

COLORADO 811
KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

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04-27-21
PERMIT SET
MARTIN/MARTIN
303.831.6500
MARTINMARTIN.COM

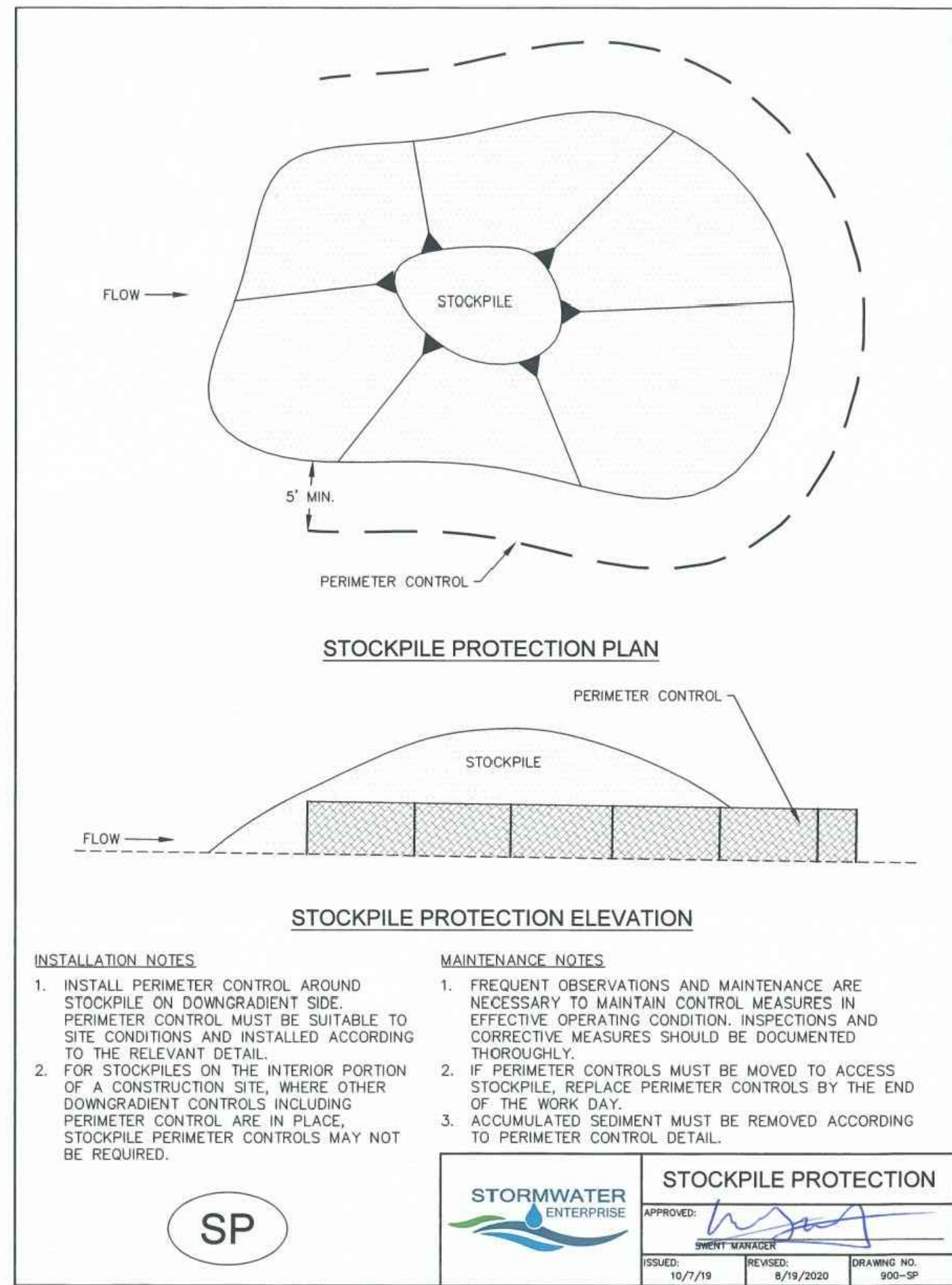
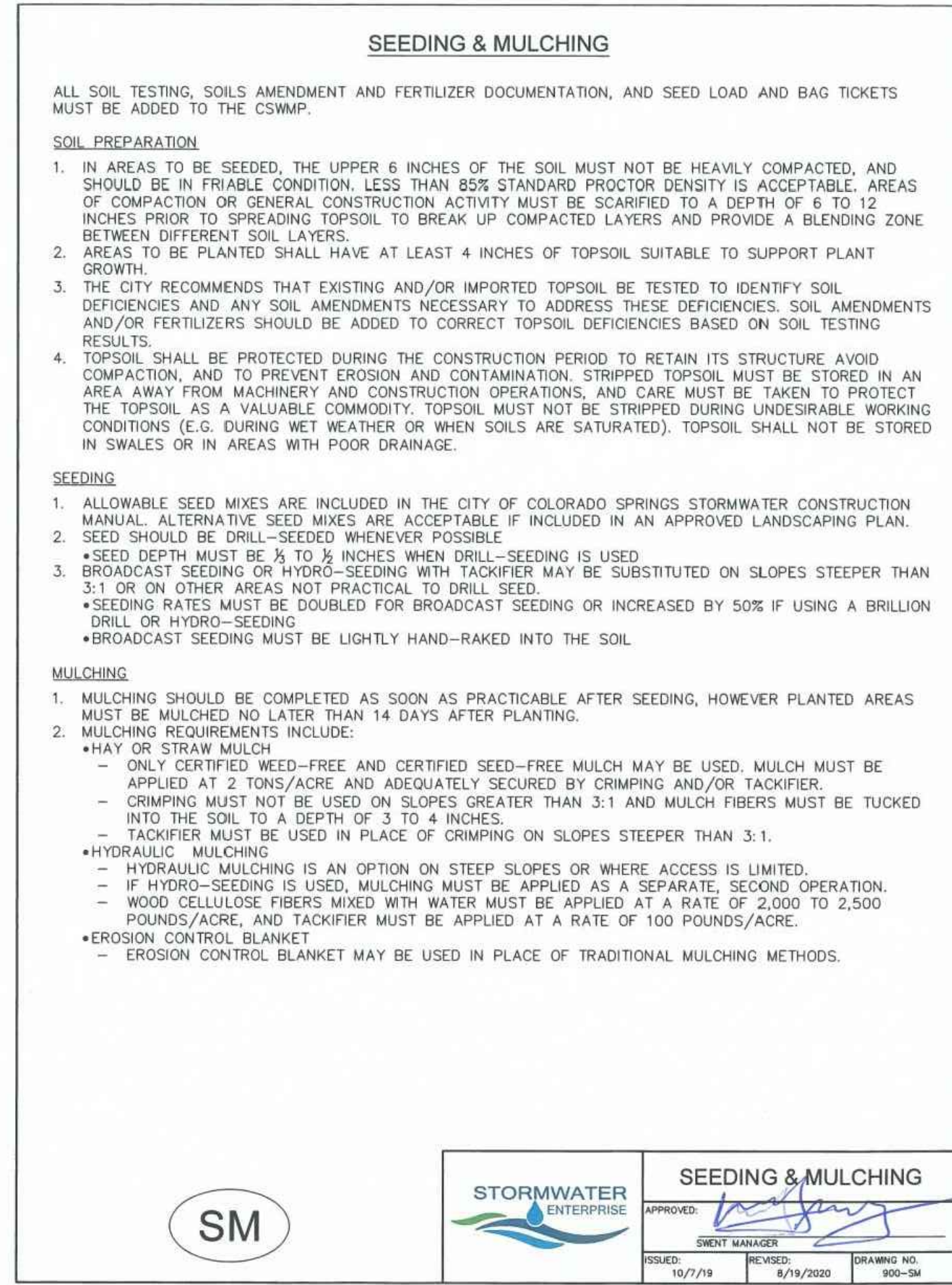
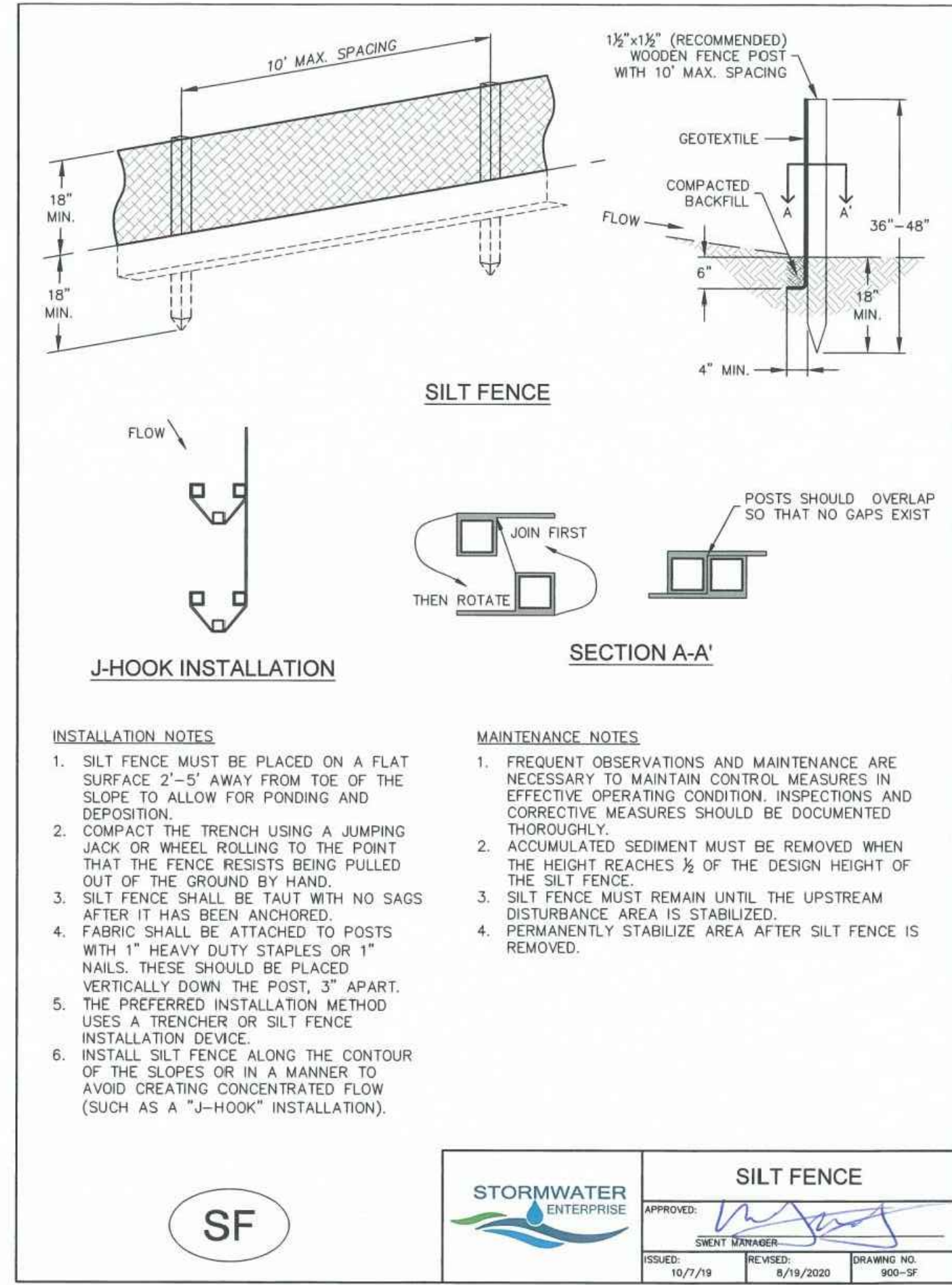
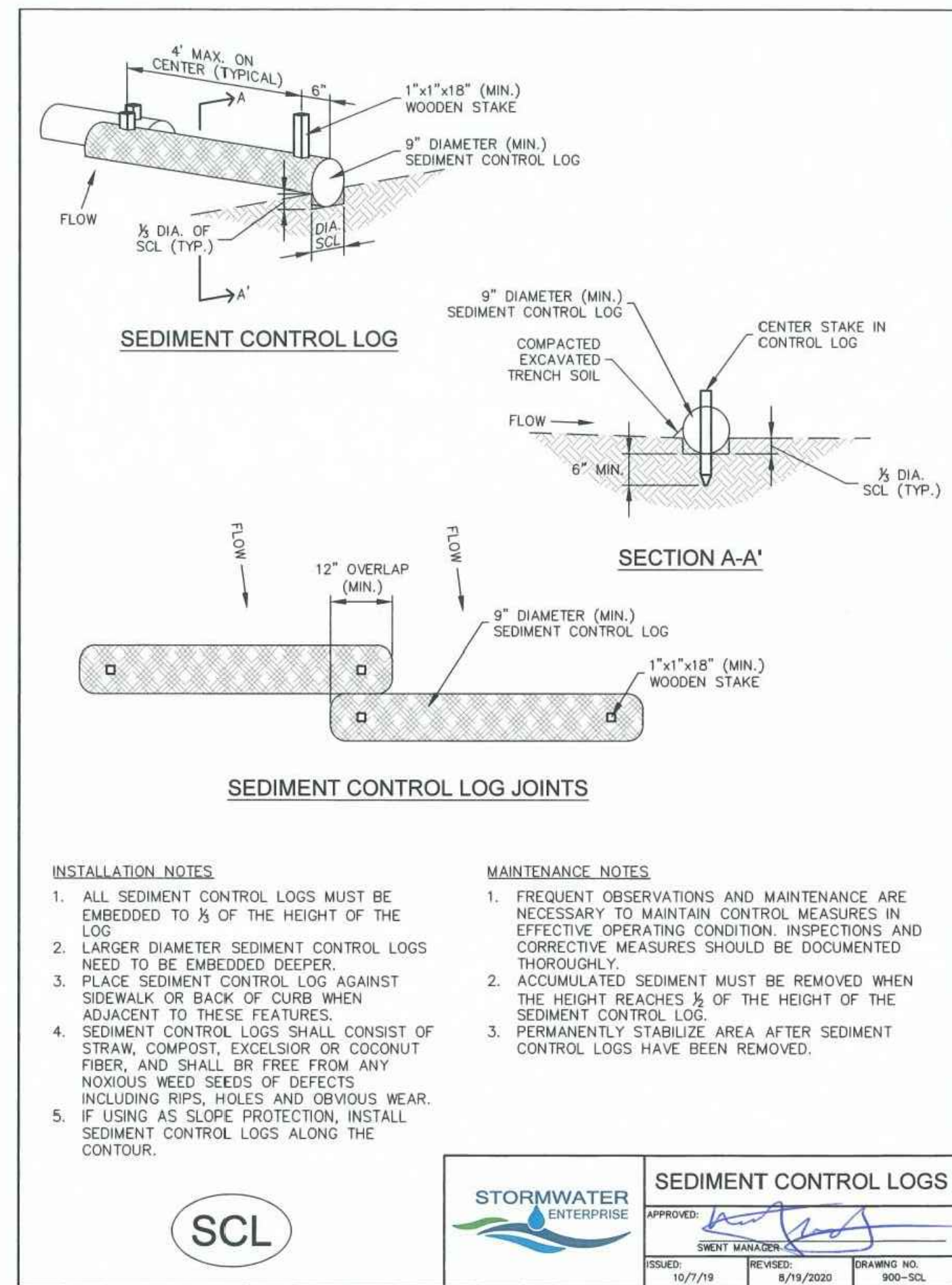
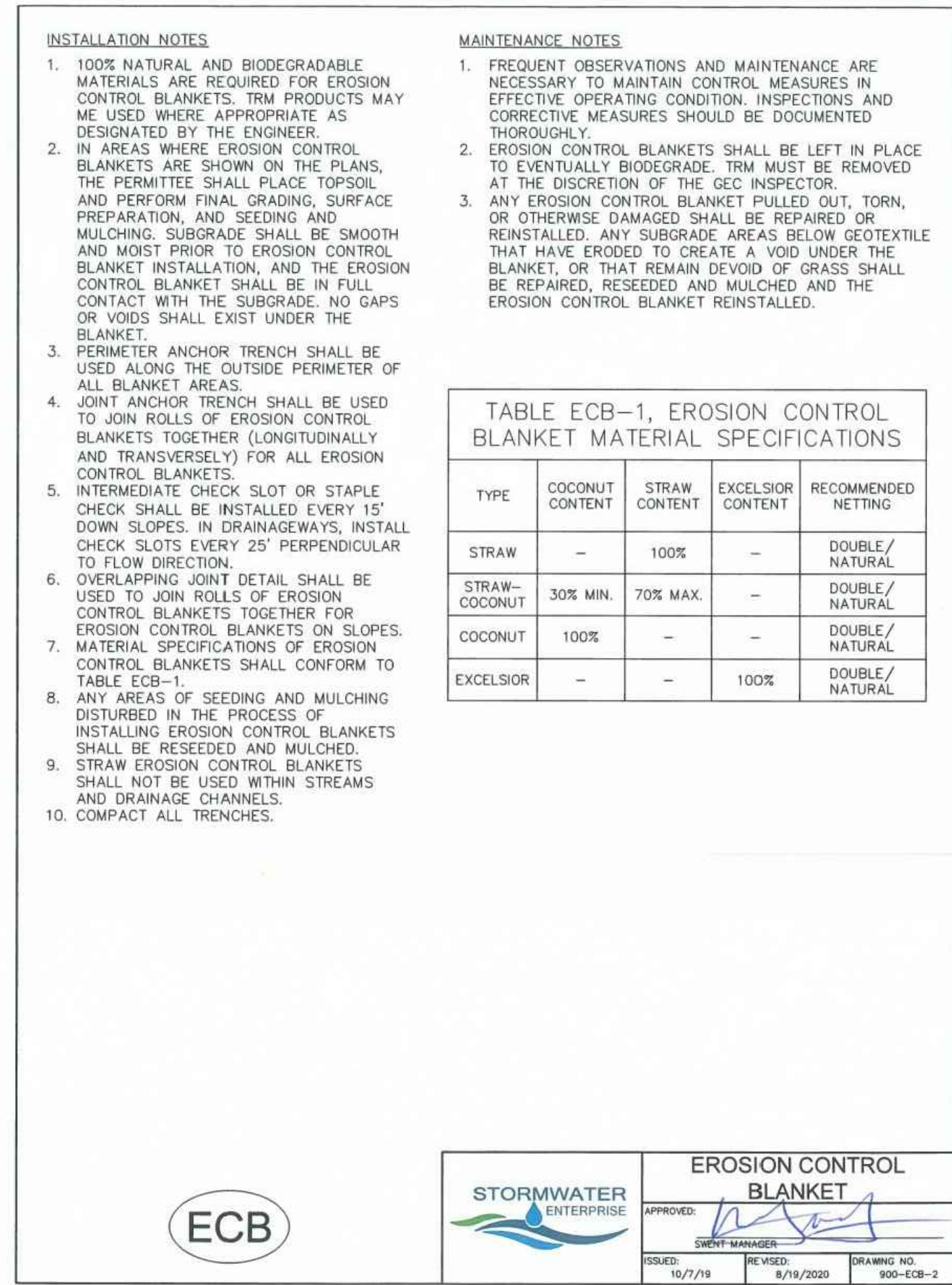
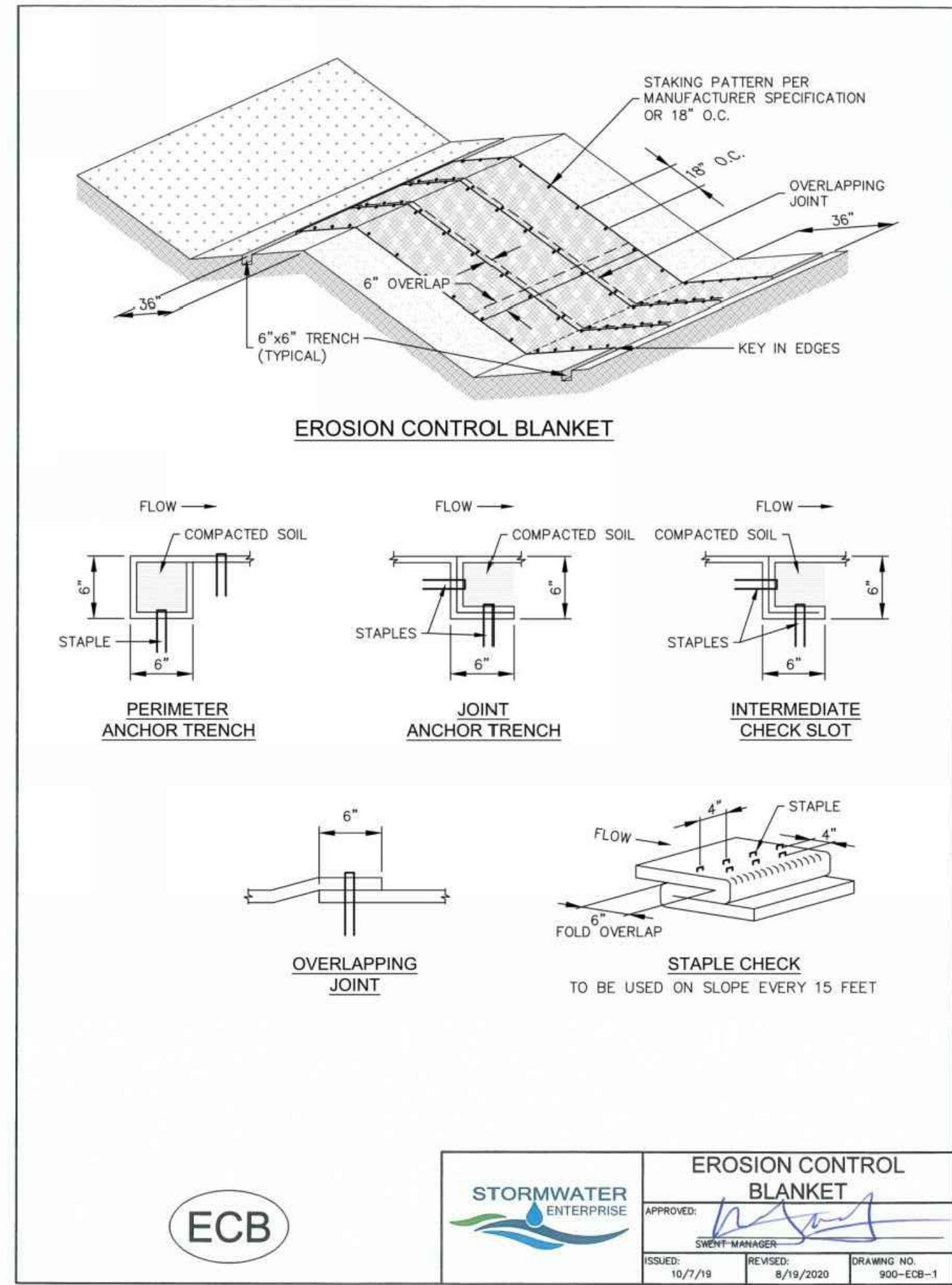
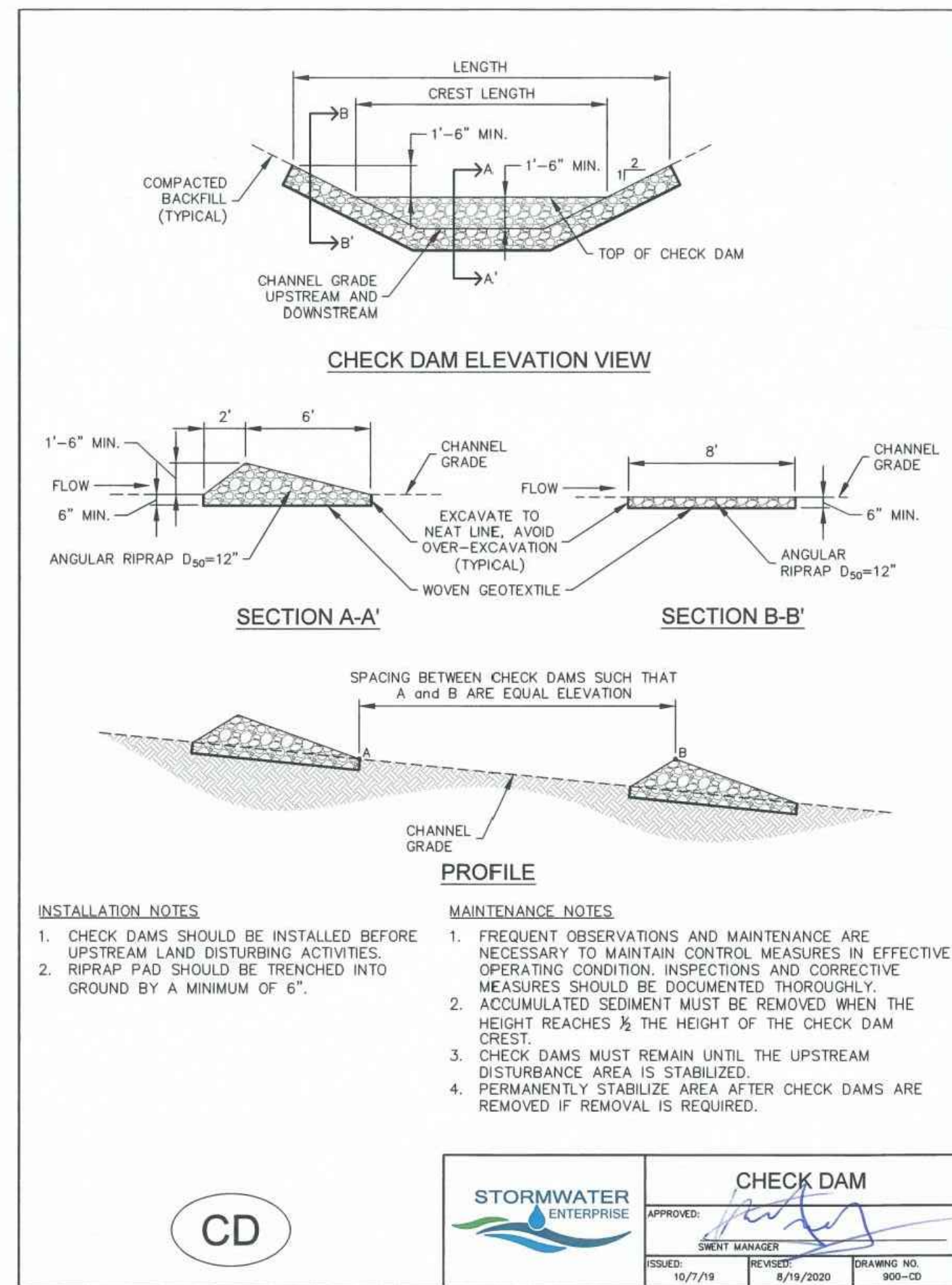
Palmer Ridge High School, Lewis Palmer SD-38
19255 Frontage (Monument Hill) Road
Monument, CO 80132
GSHP Remedial Renovation

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Phase 1
GHX / Ctrl Plant
INTERIM
EROSION
CONTROL
PLAN

Phase 1
C-201



04-27-21

PERMIT SET

MARTIN/MARTIN

CONSULTING ENGINEERS

1000 WEST 10TH AVENUE, ANCHORAGE, ALASKA 99501

303.281.6500

MARTINMARTIN.COM

Palmer Ridge High School, Lewis Palmer SD-38

19255 Frontage (Monument Hill) Road

Monument, CO 80132

GSP Remedial Renovation

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Phase 1

GHX / Ctrl Plant

EROSION CONTROL DETAILS

Phase 1

C-210

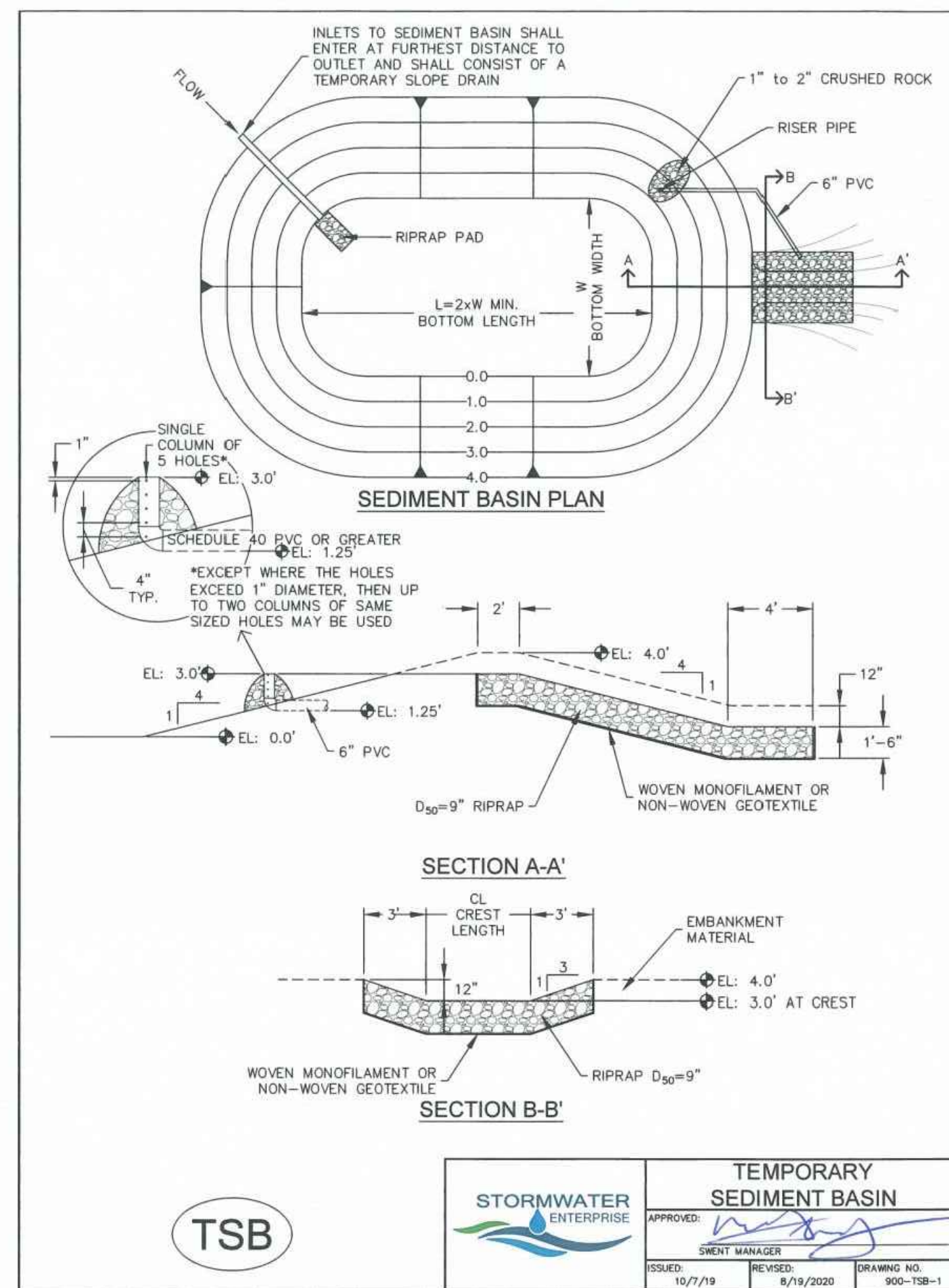
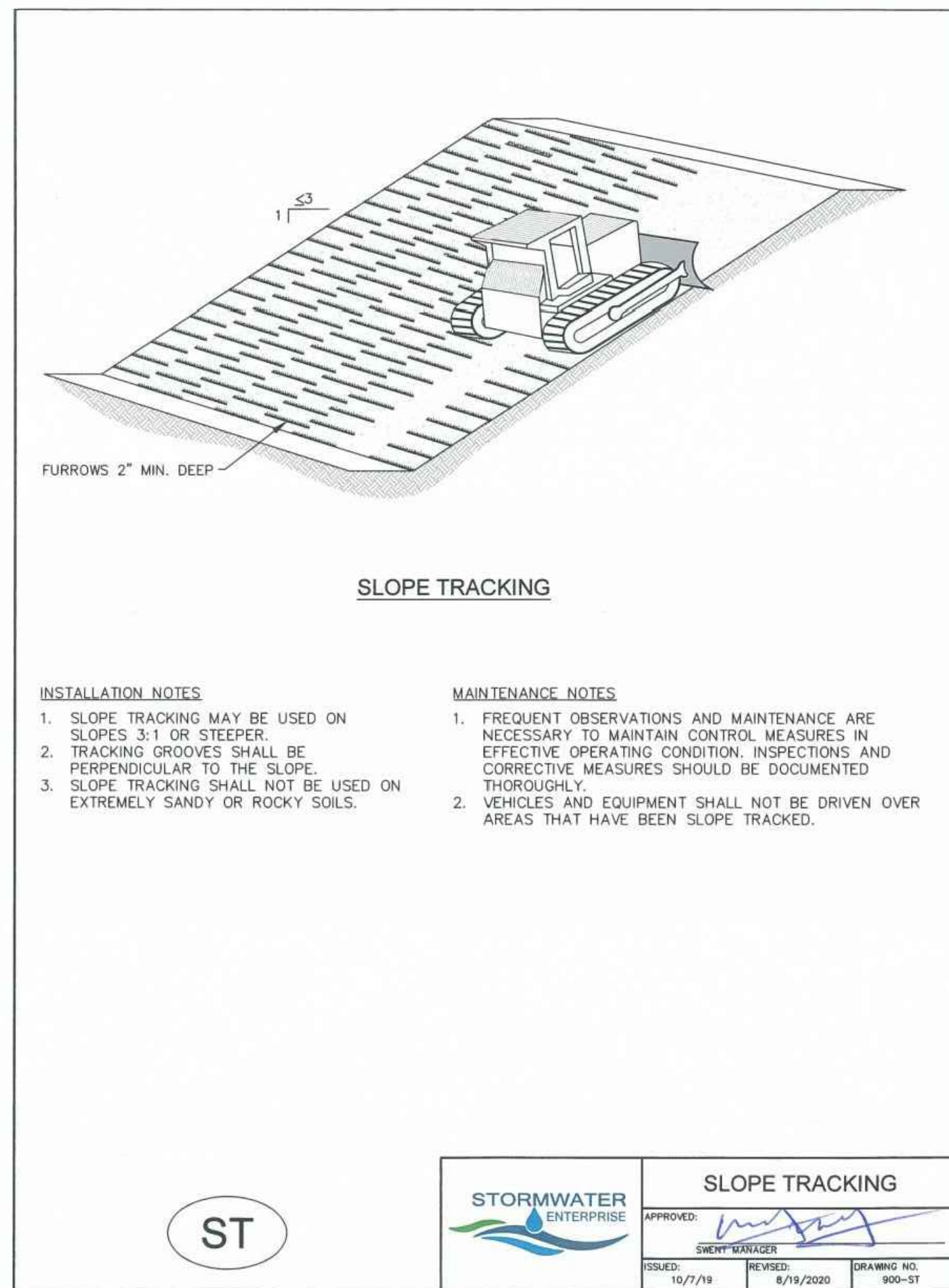


TABLE SB-1, SIZING INFORMATION FOR STANDARD SEDIMENT BASIN

UPSTREAM DRAINAGE AREA (ROUNDED TO NEAREST ACRE), (AC)	BASIN BOTTOM WIDTH (W), (FT)	SPILLWAY CREST LENGTH (CL), (FT)	HOLE DIAMETER (HD), (IN)
1	12 3/4	2	3/4
2	21	3	1 1/4
3	28	5	2
4	33 3/4	6	2 1/2
5	38 3/4	8	3
6	43	9	3 1/2
7	47 3/4	11	3 3/4
8	51	12	4
9	55	13	4 1/4
10	58 3/4	15	4 1/2
11	61	16	4 3/4
12	64	18	5
13	67 3/4	19	5 1/4
14	70 3/4	21	5 1/2
15	73 3/4	22	5 3/4

INSTALLATION NOTES

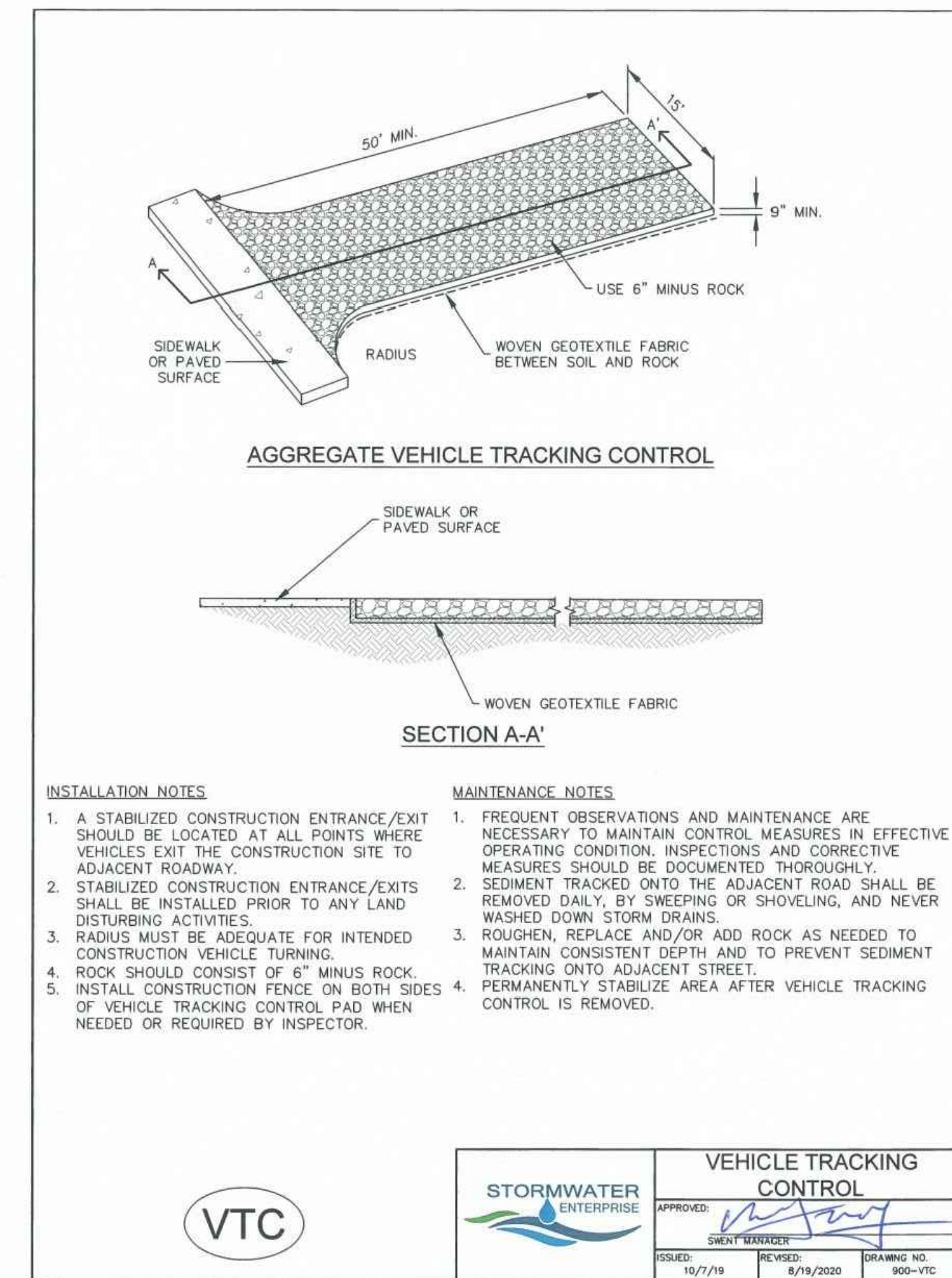
- FOR STANDARD BASIN, BOTTOM DIMENSION MAY BE MODIFIED AS LONG AS BOTTOM AREA IS NOT REDUCED.
- EMBANKMENT MATERIAL SHALL CONSIST OF SOIL FREE OF DEBRIS, ORGANIC MATERIAL, AND ROCKS OR CONCRETE GREATER THAN 3 INCHES, AND SHALL HAVE A MINIMUM OF 15 PERCENT BY WEIGHT PASSING THE No. 200 SIEVE. EMBANKMENT MATERIAL SHALL BE COMPACTED TO AT LEAST 95 PERCENT OF MAXIMUM DENSITY IN ACCORDANCE WITH ASTM D-698. PIPE SCHEDULE 40 OR GREATER SHALL BE USED.
- THE DETAILS SHOWN ON THESE SHEETS PERTAIN TO STANDARD SEDIMENT BASIN(S) FOR DRAINAGE AREAS LESS THAN 15 ACRES. SEE CONSTRUCTION DRAWINGS FOR EMBANKMENT, STORAGE VOLUME, SPILLWAY, OUTLET, AND OUTLET PROTECTION DETAILS FOR ANY SEDIMENT BASIN(S) THAT HAVE BEEN INDIVIDUALLY DESIGNED FOR DRAINAGE AREAS LARGER THAN 15 ACRES. DESIGN CALCULATIONS MUST BE APPROVED PRIOR TO IMPLEMENTATION.

MAINTENANCE NOTES

- FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN CONTROL MEASURES IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.
- SEDIMENT ACCUMULATED IN BASIN SHALL BE REMOVED AS NEEDED TO MAINTAIN CONTROL MEASURE EFFECTIVENESS, TYPICALLY WHEN SEDIMENT DEPTH REACHES ONE FOOT (I.E. TWO FEET BELOW SPILLWAY CREST).
- SEDIMENT BASINS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS PERMANENTLY STABILIZED.
- PERMANENTLY STABILIZE AREA AFTER SEDIMENT BASIN REMOVAL.

TSB

STORMWATER ENTERPRISE		TEMPORARY SEDIMENT BASIN	
APPROVED:		ISSUED:	10/7/19
DESIGNED:		REVISED:	6/19/2020
DRAWING NO.:	900-TSB-2	DRAWING NO.:	900-TSB-2



PERMIT SET 04-27-21



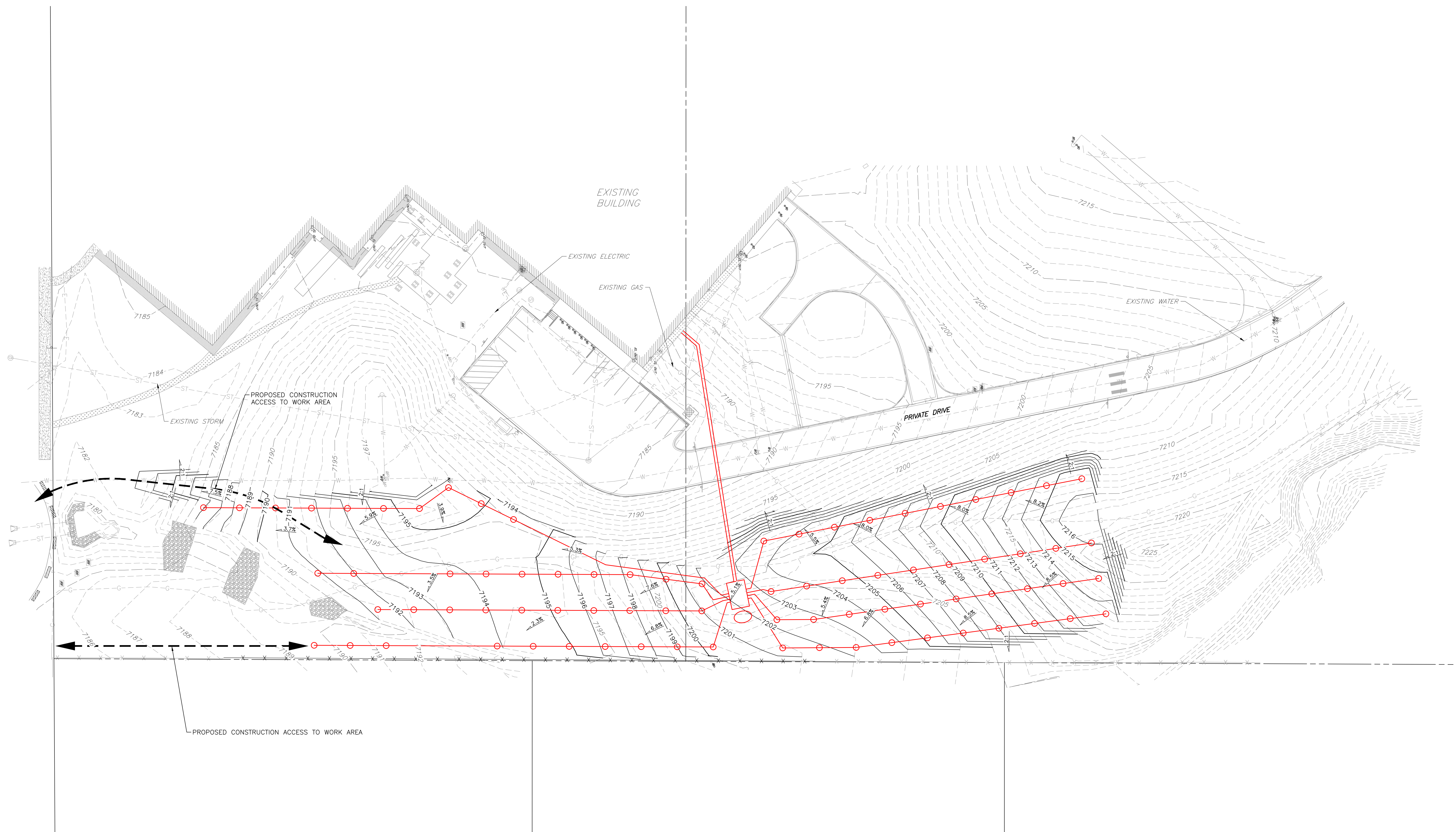
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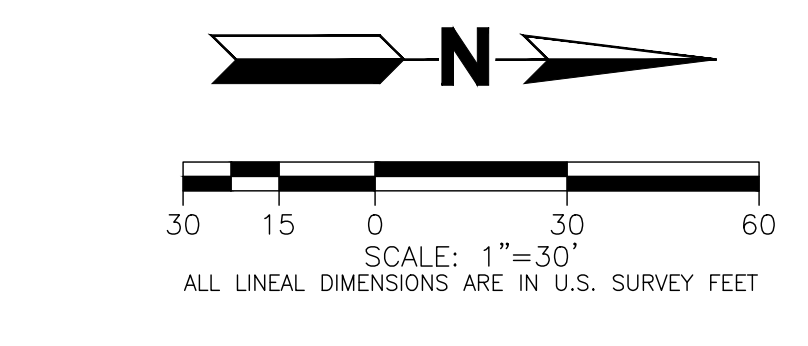
Phase 1
GHX / Ctrl Plant
EROSION CONTROL DETAILS

Phase 1
C-211

PL01 DATE: Tuesday, April 27, 2021, 4:41 PM. LAST SAVED BY: CONSUMERS. DRAWING LOCATION: C:\Users\consumers\Documents\Brennan\Plans\CA\EROSION_CONTROL_DETAILS.dwg



EXISTING		PROPOSED	
	PROPERTY LINE		PROPERTY LINE
	RIGHT-OF-WAY LINE		RIGHT-OF-WAY LINE
	SECTION LINE		SECTION LINE
	EASEMENT		EASEMENT
	RETAINING WALL		RETAINING WALL
	CURB & GUTTER		CURB & GUTTER
	CONTOURS		CONTOURS
	STORM SEWER		STORM SEWER
	STORM MANHOLE		STORM MANHOLE
	ROOF DRAIN		ROOF DRAIN
	INLET		INLET
	FLARED END SECTION		FLARED END SECTION
	SIGN		SIGN
	GRADING ARROW		GRADING ARROW
	DECIDUOUS TREE		DECIDUOUS TREE
	EVERGREEN TREE		EVERGREEN TREE
	BUSH/SHRUB		BUSH/SHRUB
	DRIVE		DRIVE
	SPOT ELEVATIONS		SPOT ELEVATIONS
	GROUND HEAT EXCHANGER (GHX)		GROUND HEAT EXCHANGER (GHX)



COLORADO 811
KNOW WHAT'S BELOW. CALL BEFORE YOU DIG.

CALL 811 2-BUSINESS DAYS IN ADVANCE BEFORE YOU DIG, GRADE OR EXCAVATE FOR MARKING OF UNDERGROUND MEMBER UTILITIES

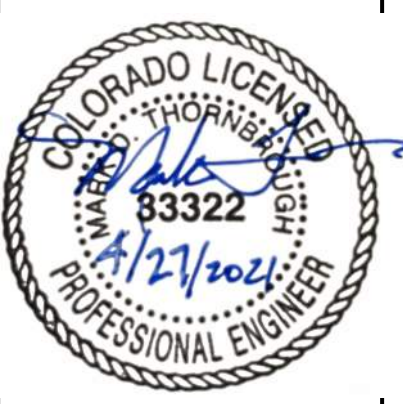
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PERMIT SET 04-27-21

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303.321.6500 MARTINMARTIN.COM

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19255 Frontage (Monument Hill) Road
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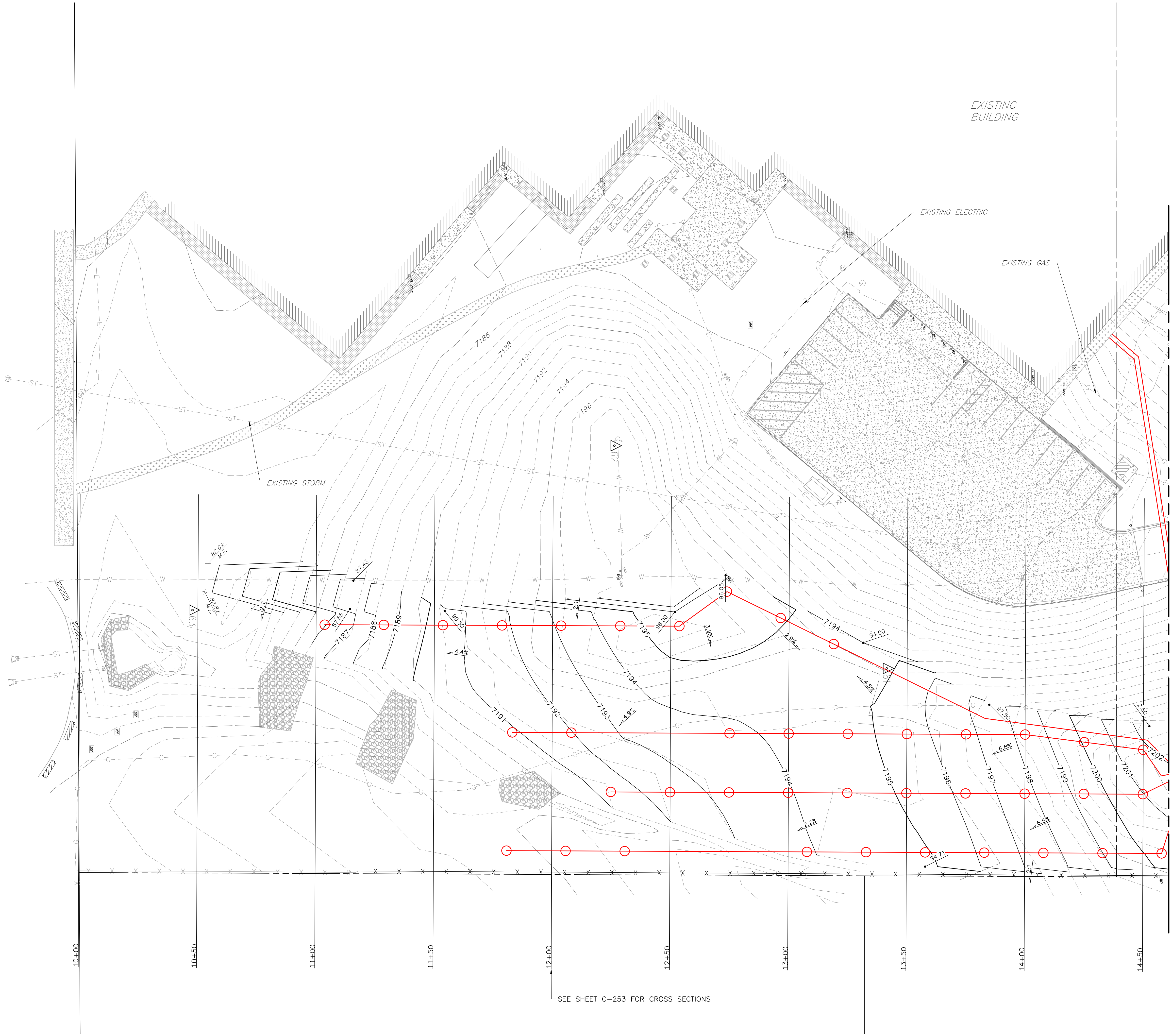
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Phase 1
GHX / Ctrl Plant
INTERIM
OVERALL
GRADING
PLAN

Phase 1
C-250

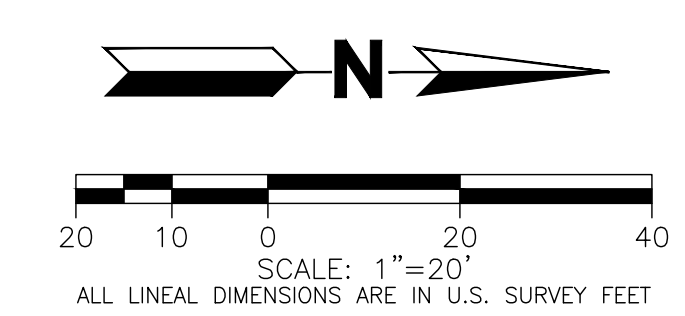
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LEGEND

EXISTING		PROPOSED
---	PROPERTY LINE	---
---	RIGHT-OF-WAY LINE	---
---	SECTION LINE	---
---	EASEMENT	---
---	RETAINING WALL	---
---	CURB & GUTTER	---
---	CONTOURS	---
---	STORM SEWER	---
---	STORM MANHOLE	---
---	ROOF DRAIN	---
---	INLET	---
---	FLARED END SECTION	---
---	SIGN	---
---	GRADING ARROW	---
---	DECIDUOUS TREE	---
---	EVERGREEN TREE	---
---	BUSH/SHRUB	---
---	DRIVE	---
---	SPOT ELEVATIONS	---
---	GROUND HEAT EXCHANGER	---

SEE SHEET C-253 FOR CROSS SECTIONS



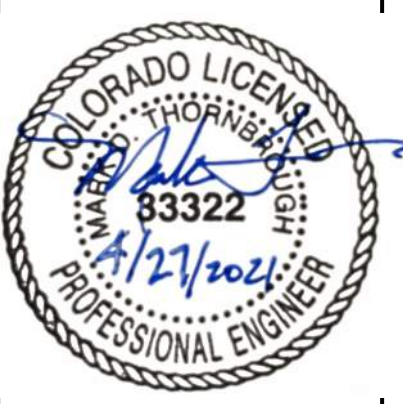
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PERMIT SET 04-27-21

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 Monument, CO 80132
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Phase 1
 GHX / Ctrl Plant
 INTERIM
 DETAILED
 GRADING PLAN

Phase #
 C-251

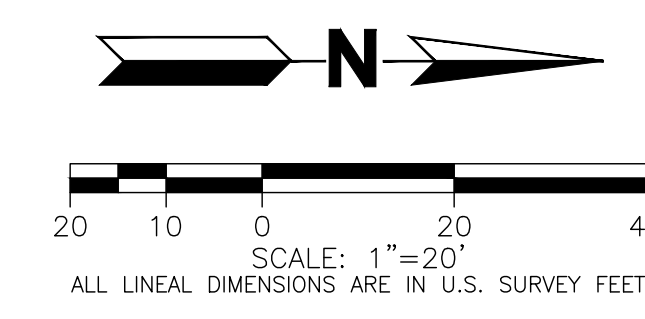
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EXISTING		PROPOSED	
	PROPERTY LINE		PROPERTY LINE
	RIGHT-OF-WAY LINE		RIGHT-OF-WAY LINE
	SECTION LINE		SECTION LINE
	EASEMENT		EASEMENT
	RETAINING WALL		RETAINING WALL
	CURB & GUTTER		CURB & GUTTER
	CONTOURS		CONTOURS
	STORM SEWER		STORM SEWER
	STORM MANHOLE		STORM MANHOLE
	ROOF DRAIN		ROOF DRAIN
	INLET		INLET
	FLARED END SECTION		FLARED END SECTION
	SIGN		SIGN
	GRADING ARROW		GRADING ARROW
	DECIDUOUS TREE		DECIDUOUS TREE
	EVERGREEN TREE		EVERGREEN TREE
	BUSH/SHRUB		BUSH/SHRUB
	DRIVE		DRIVE
	SPOT ELEVATIONS		SPOT ELEVATIONS
	GROUND HEAT EXCHANGER		GROUND HEAT EXCHANGER

MATCH LINE SHEET C-251

SEE SHEET C-254 FOR CROSS SECTIONS



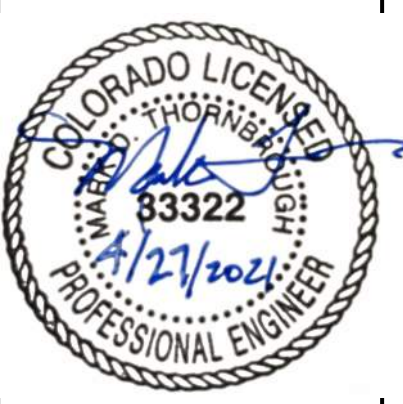
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PERMIT SET 04-27-21

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 GSH Remedial Renovation

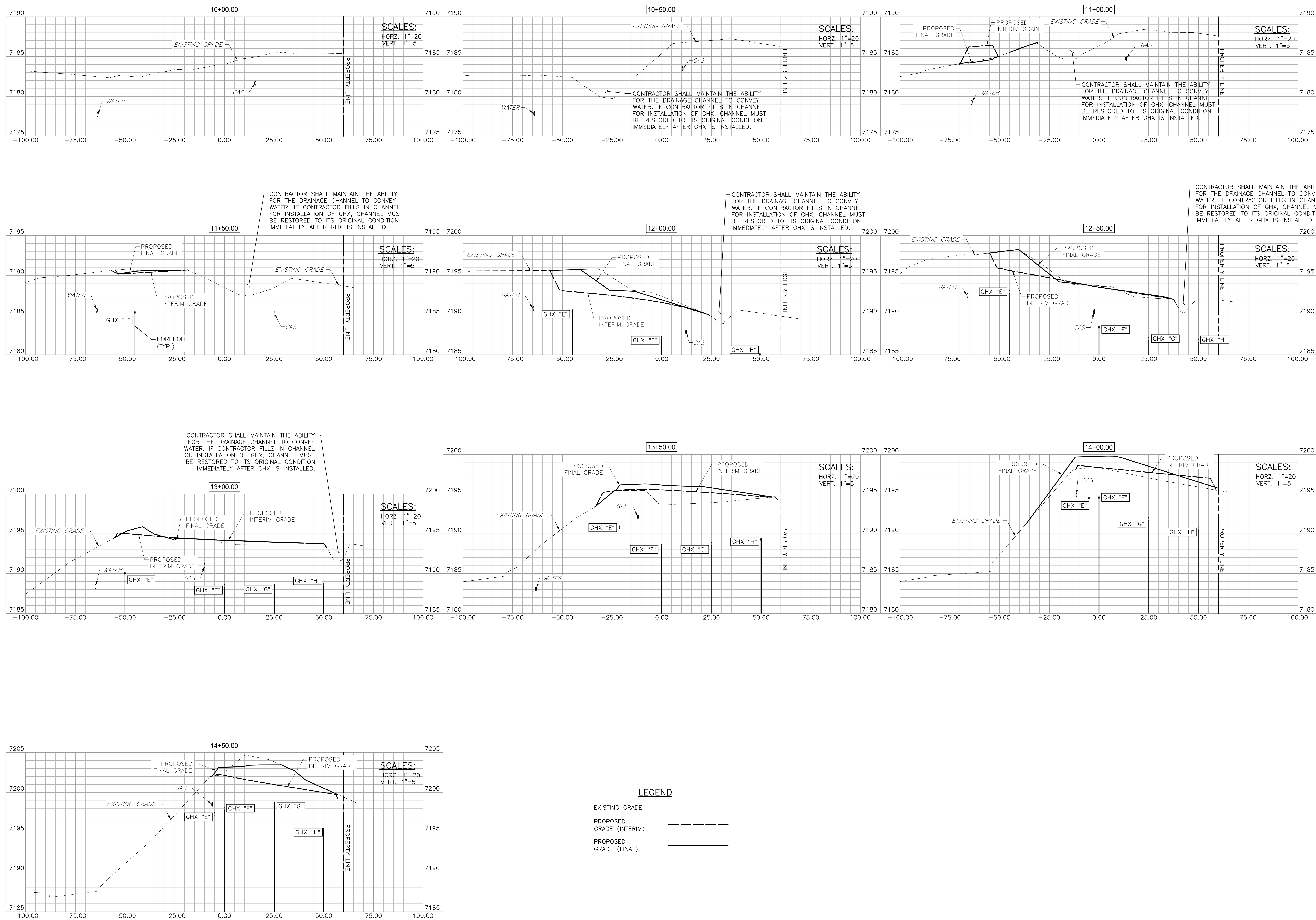
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Phase 1
 GHX / Ctrl Plant
 INTERIM
 DETAILED
 GRADING PLAN

Phase 1
 C-252

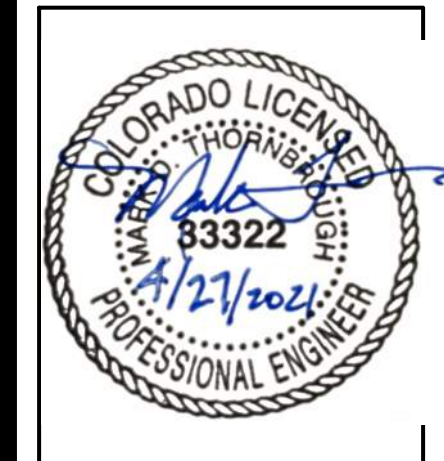
PLOT DATE: Tuesday, April 27, 2021, 4:42 PM. LAST SAVED BY: MBRONWA
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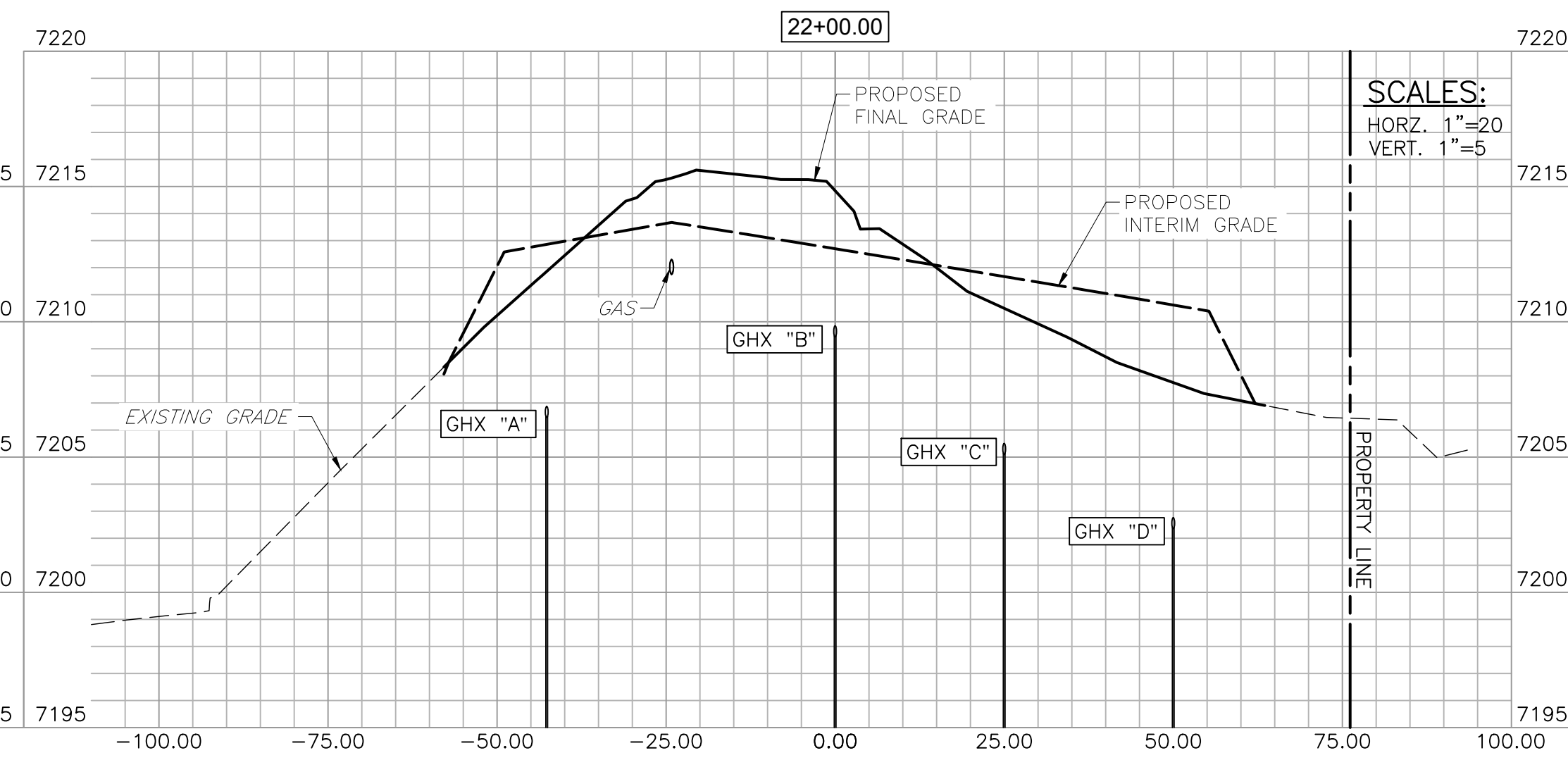
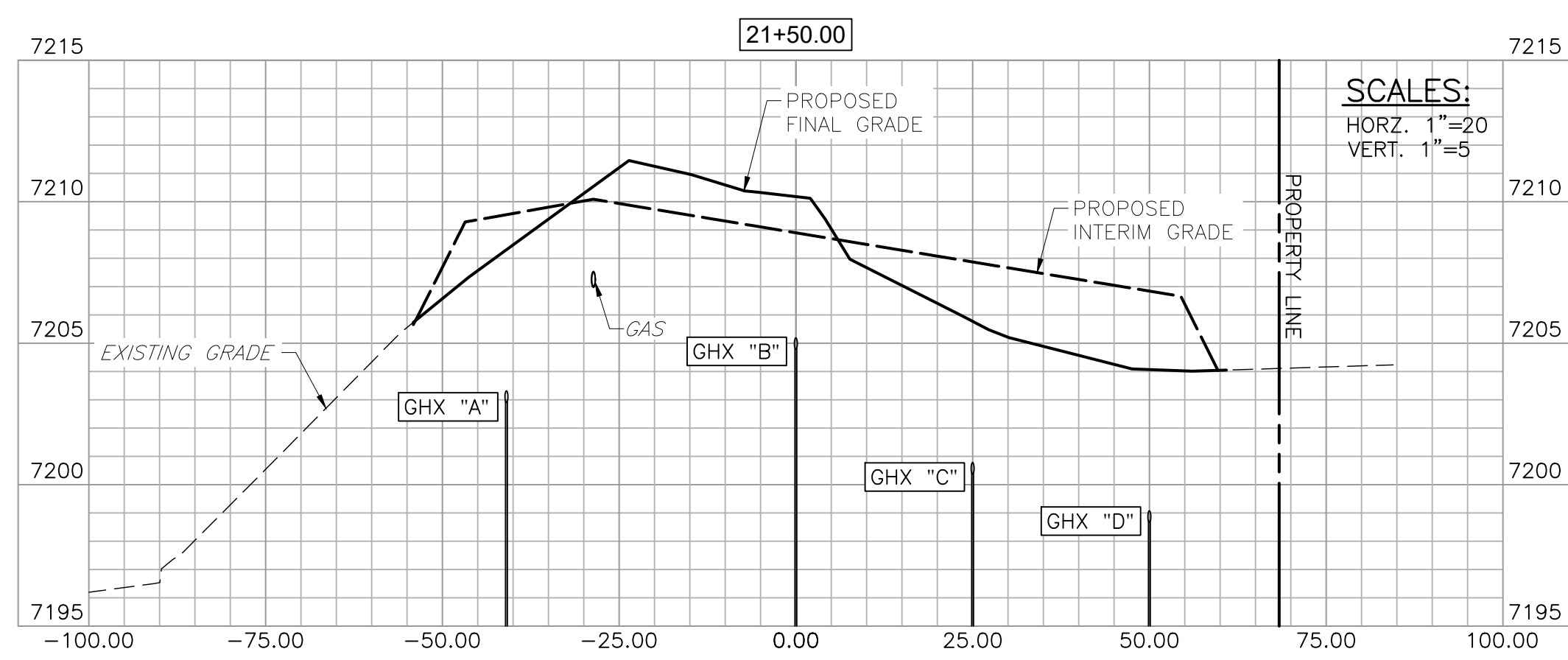
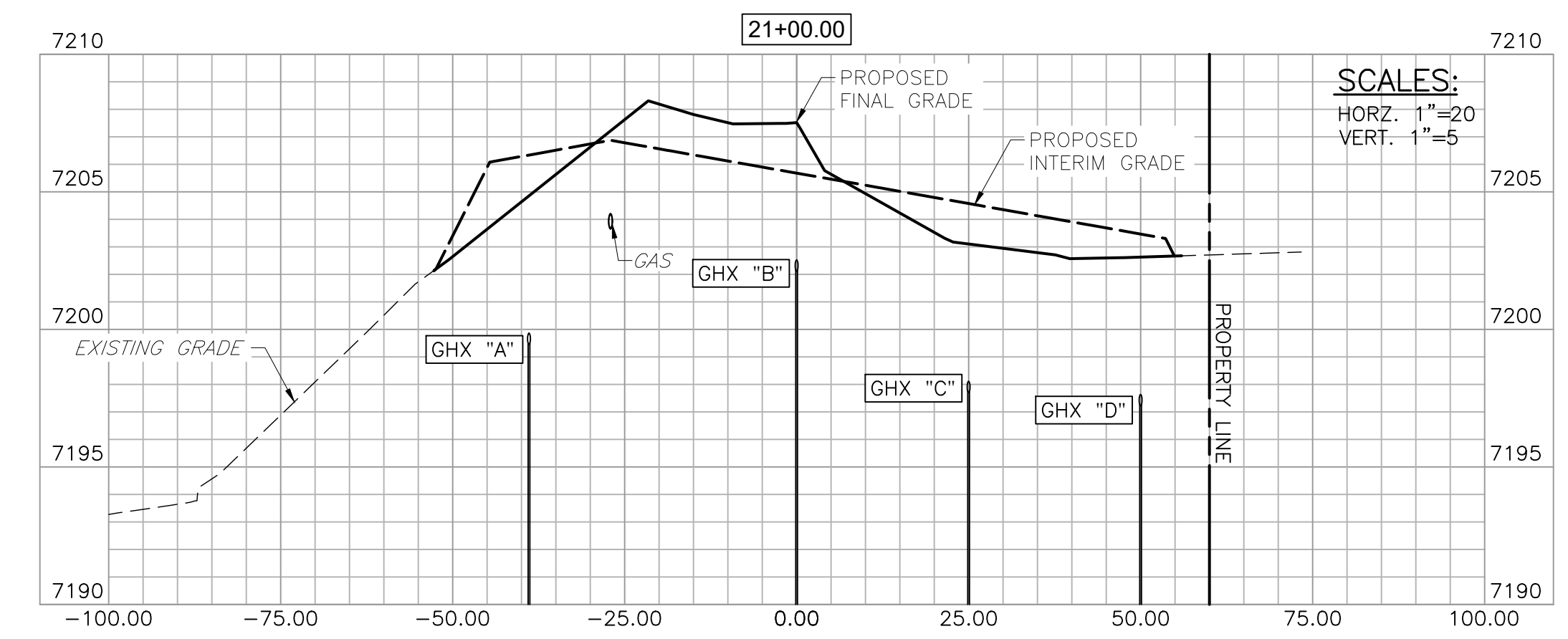
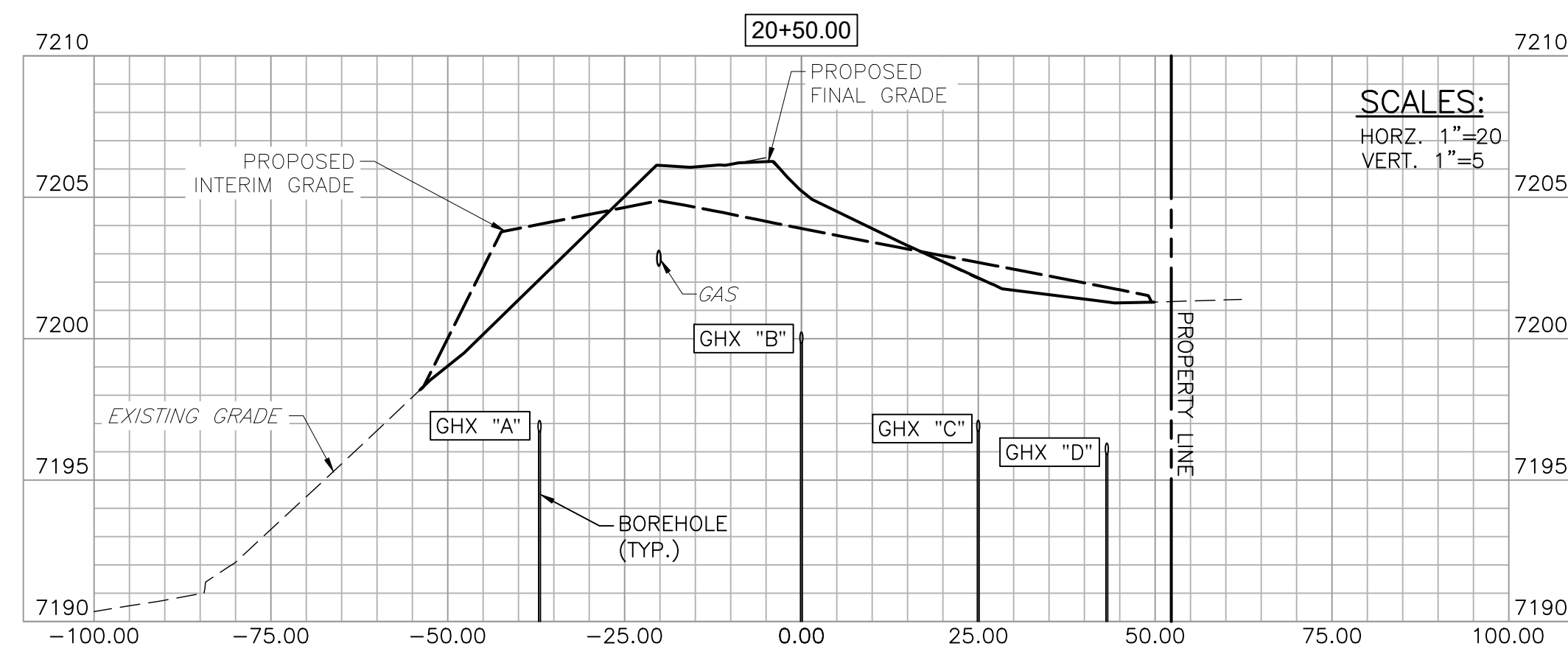
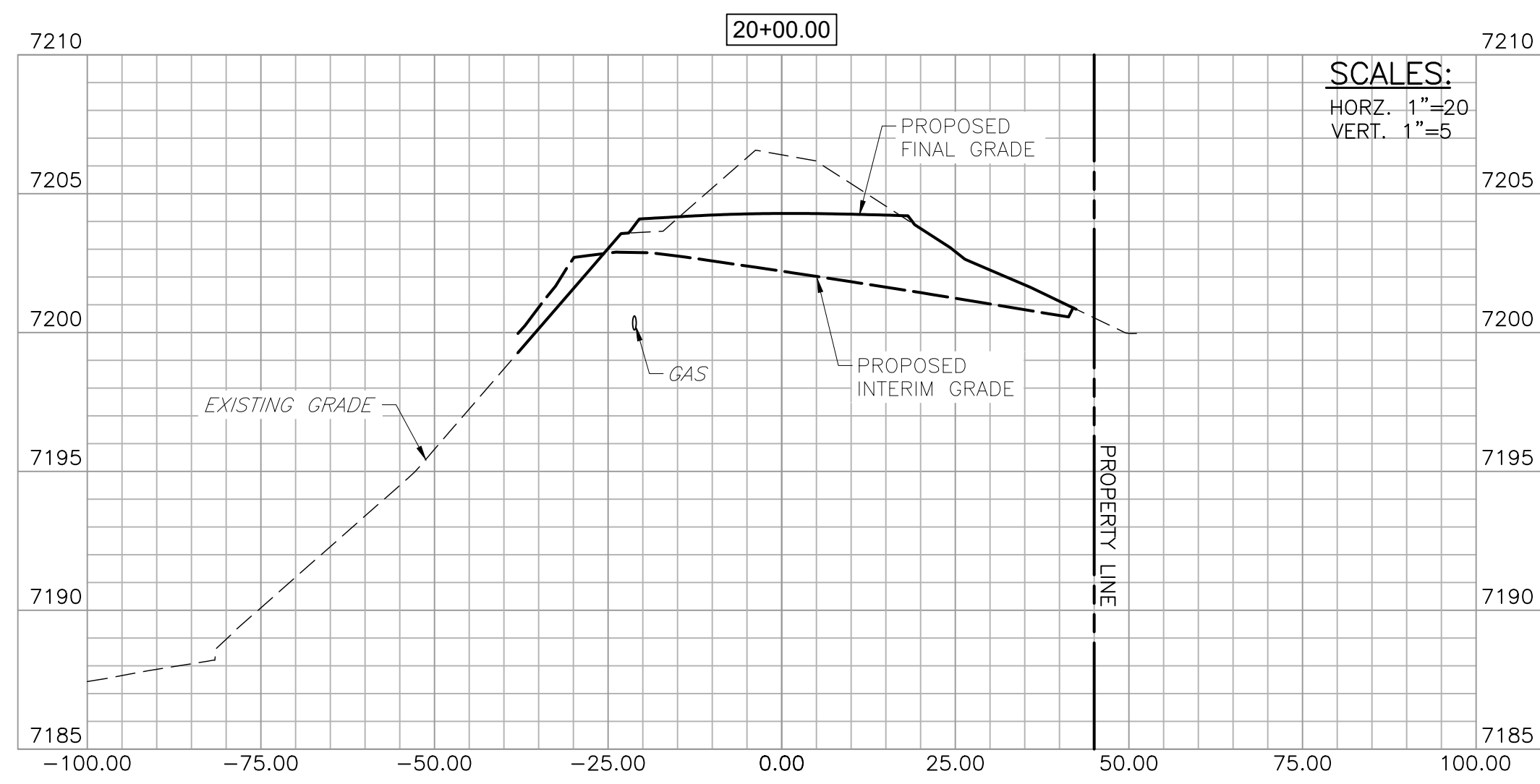
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Phase 1
 GHX / Ctrl Plant
 CROSS SECTIONS

Phase 1
 C-253

PLOT DATE: Tuesday, Aug 27, 2021, 4:42 PM. LAST SAVED BY: CONNORSRE
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LEGEND

EXISTING GRADE -----

PROPOSED GRADE (INTERIM) - - - - -

PROPOSED GRADE (FINAL) _____

PERMIT SET 04-27-21



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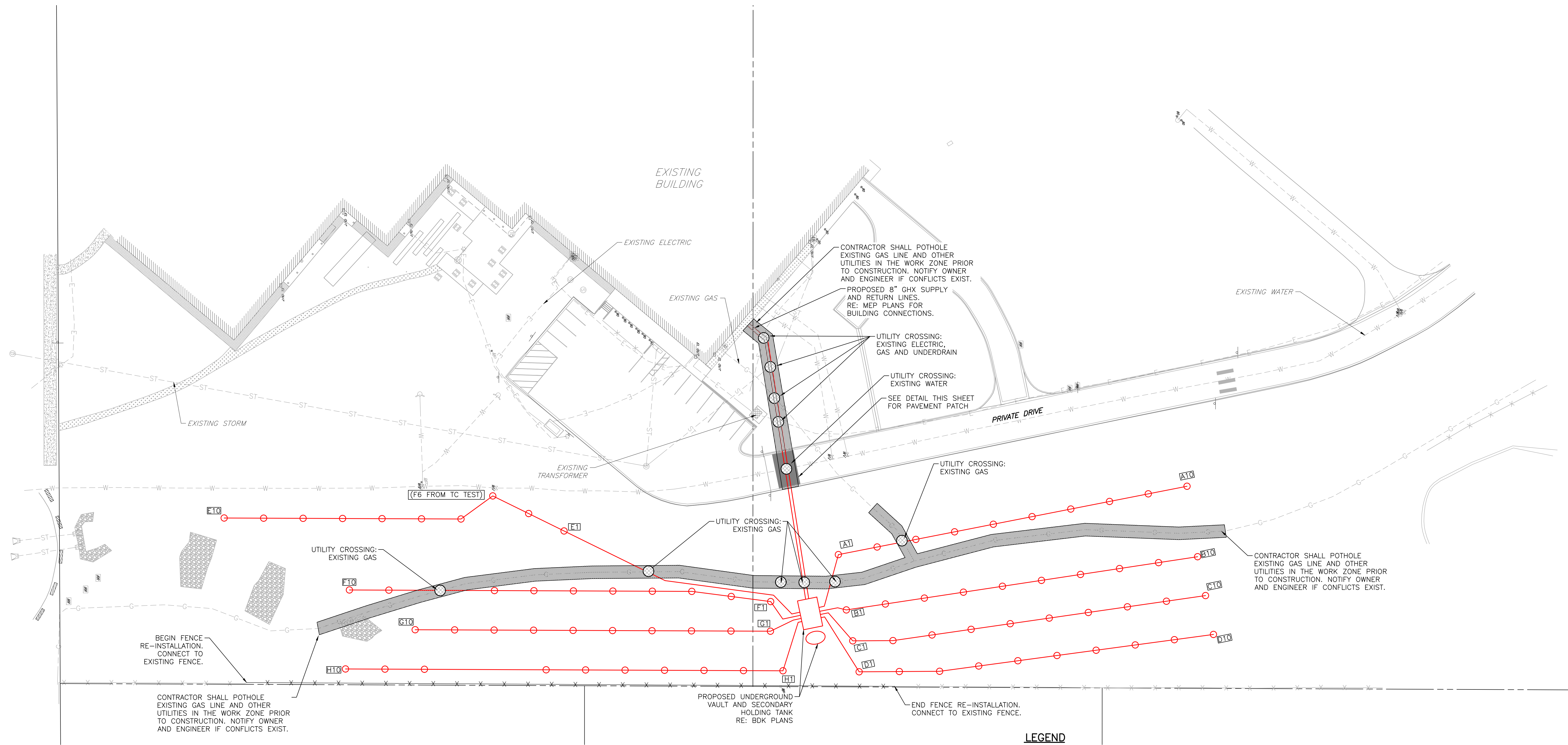
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Phase 1
GHX / Ctrl Plant
CROSS
SECTIONS

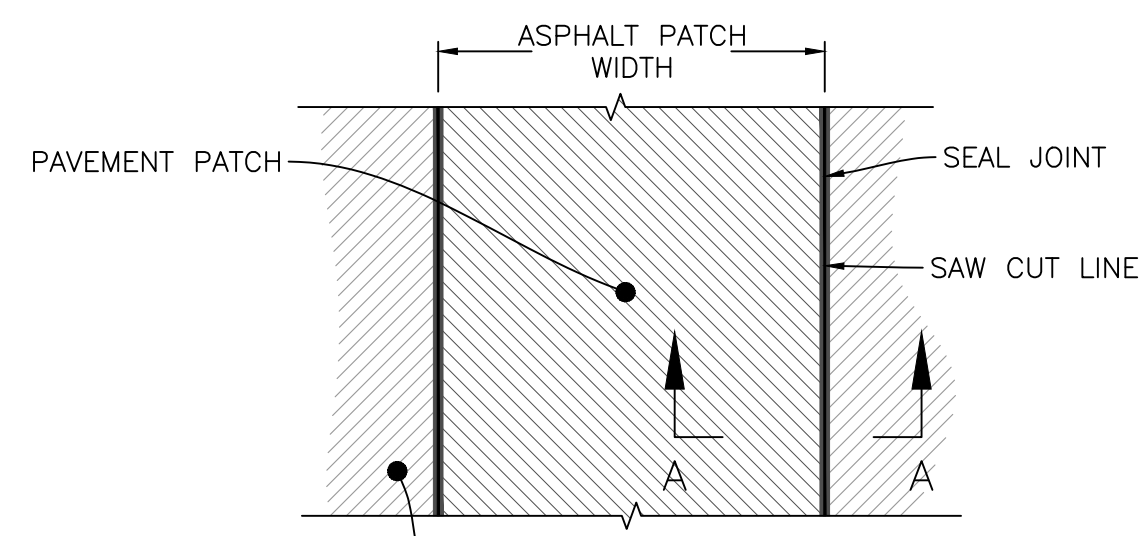
Phase #
C-254

PLOT DATE: Tuesday, April 27, 2021, 4:42 PM. LAST SAVED BY: CONNORSRE
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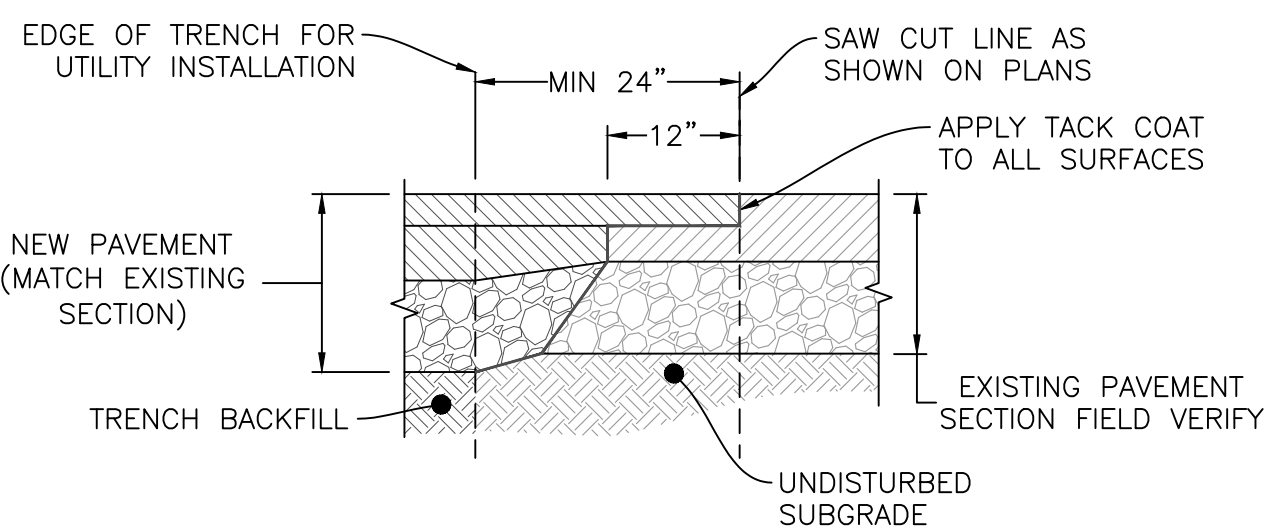


NOTES

1. REFER TO BDK ENGINEERING PLANS FOR DETAILED DESIGN OF GROUND HEAT EXCHANGER SYSTEM. LAYOUT SHOWN ON THESE PLANS FOR INFORMATION ONLY AND GENERAL COORDINATION.
2. SEE SHEET C-010 FOR ADDITIONAL NOTES, LEGEND AND ABBREVIATIONS.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR POTHOLING AND LOCATING EXISTING UTILITIES AND ADJACENT TO THE WORK AREA. NOTIFY OWNER AND ENGINEER IF CONFLICTS EXIST BETWEEN PROPOSED IMPROVEMENTS AND EXISTING UTILITIES.
4. CONTRACTOR SHALL COORDINATE ALL EXCAVATION OVER EXISTING GAS LINE WITH BLACK HILLS ENERGY REPRESENTATIVE.



TRENCHING PLAN VIEW



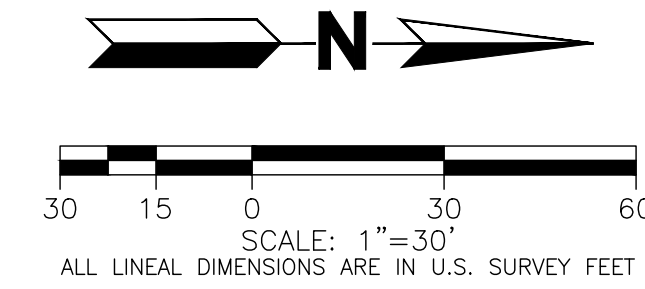
SECTION A

- NOTES:**
1. WHERE EXISTING PAVEMENT IS LESS THAN 1.5" DO NOT OVERLAP NEW PAVEMENT
 2. NEW PAVEMENT TO OVERLAP MINIMUM OF 12" OVER EXISTING MILLED PAVEMENT
 3. LIMIT SUBGRADE DISTURBANCE UNLESS EXISTING SUBGRADE IS DAMAGED
 4. WHERE NEW PAVEMENT IS TO BE PLACED IN A SINGLE LIFT, MILL EXISTING PAVEMENT TO 1/2 THE THICKNESS OF THE ORIGINAL PAVEMENT
 5. STEP EXCAVATION OF EXISTING BASE AND SUBGRADE MATERIALS TO AVOID UNDERMINING OF EXISTING PAVEMENT

ASPHALT PAVEMENT PATCHING FOR UTILITY TRENCHING
NOT TO SCALE
07-0351

LEGEND

EXISTING		PROPOSED
---	PROPERTY LINE	---
---	RIGHT-OF-WAY LINE	---
---	SECTION LINE	---
---	EASEMENT	---
---	RETAINING WALL	---
---	CURB & GUTTER	---
---	UTILITY CROSSING	⊕
---ST---	STORM SEWER	ST
⊕	STORM MANHOLE	⊕
---	ROOF DRAIN	RD
⊕	STORM INLET	⊕
<	FLARED END SECTION	<
---	SANITARY SEWER	SS
⊕	SANITARY MANHOLE	⊕
⊕	CLEAN OUT	⊕
---	WATER LINE	W
⊕	WATER VALVE	⊕
⊕	FIRE HYDRANT	⊕
⊕	WATER METER	⊕
---	IRRIGATION LINE	IR
⊕	IRRIGATION CONTROL	⊕
---	OVERHEAD ELECTRIC	OE
---	ELECTRIC LINE	E
⊕	LIGHT POLE	⊕
⊕	POWER POLE	⊕
⊕	ELECTRIC METER	⊕
---	TELEPHONE LINE	T
⊕	TELEPHONE PEDESTAL	⊕
---	CABLE TV	TV
---	GAS LINE	G
⊕	SIGN	⊕
⊕	MONITOR WELL	⊕
---	DRIVE	---
---	DESCRIPTIONS	---
---	GROUND HEAT EXCHANGER	---



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Phase 1
GHX / Ctrl Plant
OVERALL
UTILITY PLAN

Phase 1
C-300