

Jul 24, 2026 -- 12:55pm by nrmasteller X:\ENGINEERING\CO\CO15170 -- Honor Charter School -- Peyton, CO\VEN\Construction Drawings\CO1517_05.dwg



VICINITY MAP
(NOT TO SCALE)

CONTACT LIST

OWNER – DEVELOPER
HONOR CHARTER SCHOOL BUILDING CORPORATION
12577 E CALEY AVE CENTENNIAL, CO 80111
ATTN: TAMMY SWEERIS
(616) 250-3566

CIVIL ENGINEER
TAIT & ASSOCIATES, INC.
320 N LINCOLN AVE
LOVELAND, CO 80537
ATTN: BRIAN CAMPBELL, PE
(970) 613-1447

SURVEYOR
TAIT & ASSOCIATES, INC.
320 N LINCOLN AVE
LOVELAND, CO 80537
ATTN: KAT STAMP
(970) 612-5457

GEOTECHNICAL ENGINEER
VIVID ENGINEERING GROUP, INC.
1053 ELKTON DRIVE
COLORADO SPRINGS, CO 80907
ATTN:NATHAN A. DOWDEN
(719) 896-4356

LANDSCAPE ARCHITECT
EVERGREEN DESIGN SERVICES
1340 ENVIRON WAY CHAPEL HILL,
NC 27517-4430
ATTN: KENN BATES PLA, FASLA
(970) 461-5799

MUNICIPALITY
EL PASO COUNTY PLANNING DEPARTMENT
2880 INTERNATIONAL CIRCLE, SUITE 110,
COLORADO SPRINGS, CO 80910
ATT: JEN UHLER
(719) 520-6300

CONTRACTOR
WALTZ CONSTRUCTION
449 S. 48TH STREET SUITE 105
TEMPE, AZ 85281
ATTN: MALCOLM MULRONEY
(480) 759-9622

FIRE AUTHORITY
FALCON FIRE PROTECTION DISTRICT.
7030 OLD MERIDIAN ROAD,
PEYTON CO 80831
ATTN: CHIEF HARWIG
(7199) 495-4050

UTILITY PROVIDERS

WATER
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
719-495-2500

GAS
COLORADO SPRINGS UTILITIES (CSU)
7710 DURANT DRIVE, P.O. BOX 1103,
MAIL CODE 2150
COLORADO SPRINGS, CO 80947-2150
719-668-5573

SEWER
WOODMEN HILLS METRO DISTRICT
8046 EASTONVILLE ROAD
FALCON, CO 80831
719-495-2500

POWER
MOUNTAIN VIEW ELECTRIC
11140 E WOODMEN RD
FALCON, CO 80831
719-495-2283

STORM DRAIN
EL PASO COUNTY DEVELOPMENT DEPARTMENT
2880 INTERNATIONAL CIRCLE, SUITE 110,
COLORADO SPRINGS, CO 80910
719-520-6300



UNAUTHORIZED CHANGES & USES

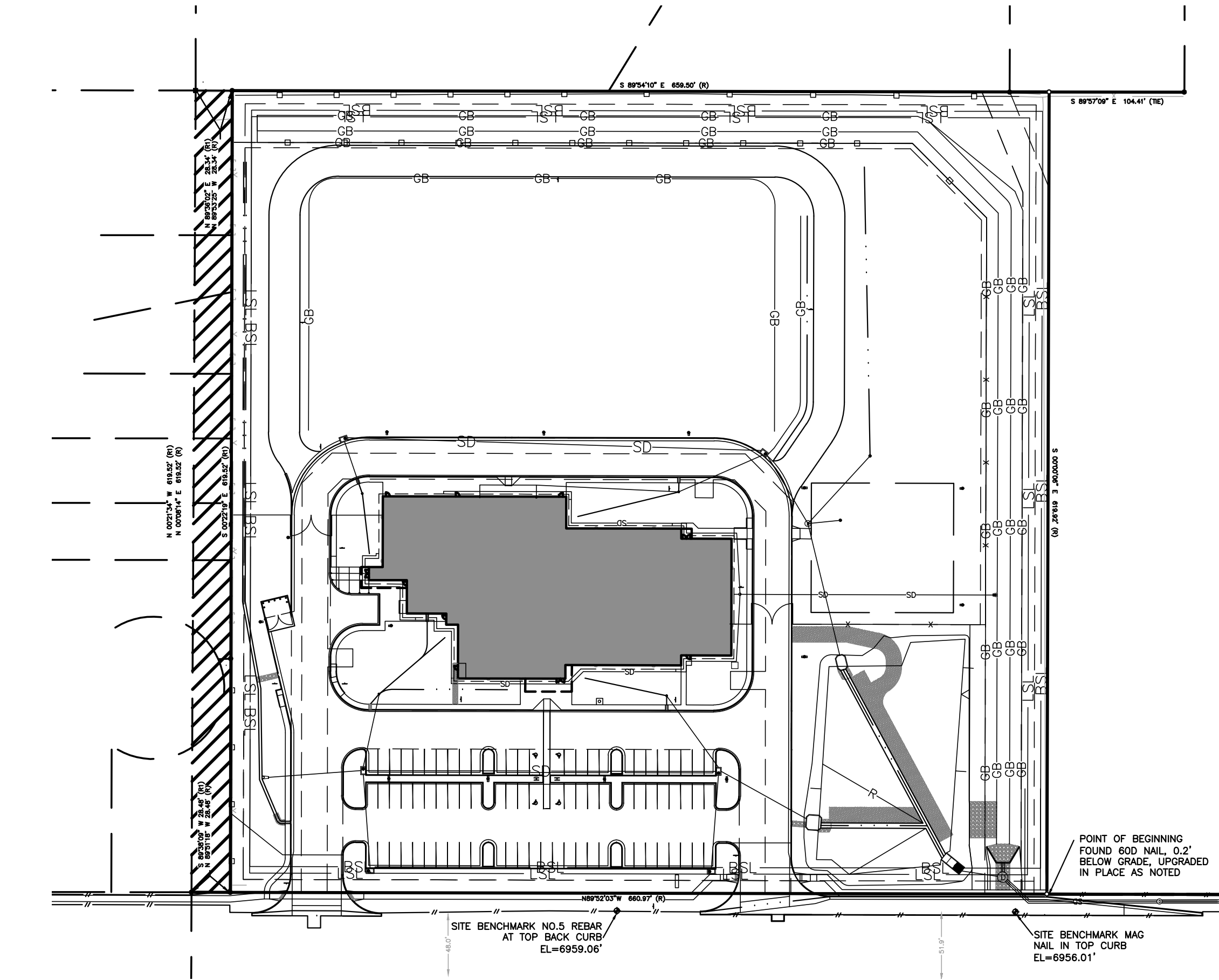
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BENCHMARK:
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SITE MAP

0 80' 160'
SCALE: 1" = 80'



LEGAL DESCRIPTION

A PARCEL OF LAND BEING A PORTION OF THE SOUTH ONE-HALF OF THE NORTHEAST ONE-QUARTER (S 1/2 NE 1/4) OF SECTION 1, TOWNSHIP 13 SOUTH, RANGE 65 WEST OF THE 6TH P.M., SITUATE IN EL PASO COUNTY, COLORADO, DESCRIBED AS FOLLOWS:

COMMENCING AT THE NORTHEAST CORNER OF SAID SECTION 1S S 1/2 NE 1/4 (ALL BEARINGS IN THIS DESCRIPTION ARE RELATIVE TO THE EAST LINE OF SAID S 1/2 NE 1/4, WHICH BEARS S 00 DEGREES 00 MINUTES 06 SECONDS W ASSUMED); THENCE S 00 DEGREES 00 MINUTES 06 SECONDS W ALONG SAID S 1/2 NE 1/4S EAST LINE, 621.14 FEET TO A POINT ON THE NORTH LINE OF THE SOUTH FORTY (40) FEET OF THE NORTH ONE-HALF OF SAID S 1/2 NE 1/4; THENCE N 89 DEGREES 52 MINUTES 03 SECONDS W ALONG SAID NORTH LINE, 1979.60 FEET TO THE POINT OF BEGINNING OF THE PARCEL HEREIN DESCRIBED; THENCE CONTINUE N 89 DEGREES 52 MINUTES 03 SECONDS W ALONG SAID NORTH LINE, 660.97 FEET TO A POINT ON THE WEST LINE OF SAID S 1/2 NE 1/4; THENCE N 00 DEGREES 08 MINUTES 14 SECONDS E ALONG SAID S 1/2 NE 1/4S WEST LINE, 619.52 FEET TO THE NORTHWEST CORNER OF SAID S 1/2 NE 1/4; THENCE S 89 DEGREES 54 MINUTES 10 SECONDS E ALONG THE NORTH LINE OF SAID S 1/2 NE 1/4, 659.50 FEET; THENCE S 00 DEGREES 00 MINUTES 06 SECONDS W, 619.92 FEET TO THE POINT OF BEGINNING.

(PER TITLE COMMITMENT NCSC001536-ES, WITH AN EFFECTIVE DATE OF JULY 16, 2025 AS PROVIDED BY FIDELITY NATIONAL TITLE INSURANCE COMPANY.)

WOODMEN HILLS METROPOLITAN DISTRICT
WATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NO. _____

WOODMEN HILLS METROPOLITAN DISTRICT
WASTEWATER DESIGN APPROVAL

DATE: _____ BY: _____

PROJECT NO. _____

FIRE AUTHORITY APPROVAL

THE NUMBER OF FIRE HYDRANTS AND HYDRANT LOCATIONS SHOWN ON THIS WATER INSTALLATION PLAN ARE CORRECT AND ADEQUATE TO SATISFY THE FIRE PROTECTION REQUIREMENTS AS SPECIFIED BY THE FIRE DISTRICT SERVING THE PROPERTY NOTED ON THE PLANS.

FIRE PROTECTION DISTRICT _____

SIGNED _____ DATE _____
FIRE PROTECTION DISTRICT

PCD FILE NO. PPR2615

PREPARED UNDER THE SUPERVISION OF
TAIT & ASSOCIATES, INC.

BRIAN CAMPBELL
COLORADO P.E. #40196

Sheet List Table	
Sheet Number	Sheet Title
1	Cover Sheet
2	General Notes
3	Demolition Plan
4	Site Plan
5	Horizontal Control Plan
6	Site Details 1
7	Signage and Striping Plan
8	Grading Plan
9	Northwest Grading Plan
10	Northeast Grading Plan
11	Southwest Grading Plan
12	Southeast Grading Plan
13	Grading Details
14	Grading Details (2)
15	Stormwater Plan
16	Stormwater P&P
17	Stormwater P&P 2
18	Foundation Drain Plan
19	Storm Details
20	Storm Details 2
21	Utility Notes
22	General Utility Plan
23	Water P&P
24	Water P&P 2
25	Water Details
26	Water Details (2)
27	Sewer P&P
28	Sewer Details
29	Offsite Sidewalk Horizontal Control Plan
30	Offsite Sidewalk Grading Plan
31	Offsite Overall Storm Plan
32	Offsite Storm P&P
33	Offsite Storm P&P 2
34	Offsite Storm P&P 3
35	Offsite Storm Details
36	Offsite Signage and Striping Plan
37	Bent Grass Meadows Drive Horizontal Control Plan
38	Roadway Cross Sections
LP-1	Planting Plan
LP-2	Fencing Plan
LP-3	Landscape Notes and Specifications
LP-4	Landscape Schedule
LP-5	Landscape Details
LI-1	Irrigation Plans
LI-2	Irrigation Details
LI-3	Irrigation Specifications

COVER SHEET

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWING C.W.
DATE: 11/11/2024
CHECKED:
DATE:
REVISION #:
DATE:
JOB NO. CO1517

1
OF
38

320 North Lincoln Avenue
Loveland, CO 80537
p: 970.613.1447
www.tait.com
ENGINEERING ENVIRONMENTAL BUILDING LAND
DALLAS DENVER SACRAMENTO SALT LAKE CITY
Since 1964



REVISIONS	
NO.	DESCRIPTION
1	NO

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 AN ON-SITE OR OFF-SITE WATERS, INCLUDING WETLANDS.

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. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP 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.

CONTROL MEASURES MUST BE INSTALLED PRIOR TO COMMENCEMENT OF ACTIVITIES THAT COULD CONTRIBUTE POLLUTANTS TO STORMWATER RUNOFF. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED IMMEDIATELY UPON COMPLETION OF THE DISTURBANCE.

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. 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 PLANT 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.

EARTH DISTURBANCES 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 SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.

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.

DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.

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.

TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP PROPERLY DISPOSED OF IMMEDIATELY.

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 ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.

BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.

OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DCM VOLUME II AND THE EGM APPENDIX I. ALL APPLICABLE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY VIVID ENGINEERING GROUP AND SHALL BE CONSIDERED A PART OF THESE PLANS.

STANDARD SIGNAGE AND STRIPING NOTES FOR EL PASO COUNTY CONSTRUCTION PLANS

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY DEPARTMENT OF PUBLIC WORKS (DPW).
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL STOP SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING "4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING "6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 35 MPH OR HIGHER SHALL HAVE "8" UPPER-LOWER CASE LETTERING ON 12" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE FHWA STANDARD HIGHWAY SIGNS: 2004 EDITION WITH 2011 SUPPLEMENT. SIGNAL POLE MOUNTED AND OVERHEAD STREET NAME SIGNS SHALL BE PER MUTCD SIZE STANDARDS.
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM DIAMOND GRADE RETROREFLECTIVE SHEETING THAT MEETS ASTM D4956 TYPE XI SHEETING REQUIREMENTS.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75"x1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.125" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 24" WIDE AND A MINIMUM OF 9' LONG. CROSSWALKS SHALL BE IN-LAND IN ACCORDANCE WITH SECTION 627 OF THE 2025 CDOT STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION.
12. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE.
13. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 18 MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
14. ALL SIGNS SHALL BE PLACED IN ACCORDANCE WITH CDOT STANDARD S-614-1 OR MUTCD FIGURE 2A-2.
15. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DPW - INSPECTIONS (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
16. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY DPW PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD NOTIFICATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
 - a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
 - b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
 - c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
 - d. CDOT M & S STANDARDS
4. ANYSTANDING AMONG 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 FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT (PCD) -INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEViate FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DOT AND MUTCD CRITERIA. [IF APPLICABLE, ADDITIONAL SIGNING AND STRIPING NOTES WILL BE PROVIDED.]
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DOT, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED.
16. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ALL ADJACENT PROPERTY OWNERS PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.
17. EL PASO COUNTY DOES NOT OWN AND IS NOT RESPONSIBLE FOR THE UNDERDRAINS OR GROUNDWATER DISCHARGE SYSTEMS SHOWN ON THESE PLANS AND ASSUMES NO LIABILITY FOR WATER RIGHTS ADMINISTRATION BY APPROVING THESE PLANS. MAINTENANCE AND WATER RIGHTS ARE THE RESPONSIBILITY OF THE DEVELOPER.

TAIT
& ASSOCIATES

ENGINEERING ENVIRONMENTAL BUILDING LAND

Since 1964

Santa Ana Sacramento
San Luis Obispo Riverside
Denver
Bole
Dallas

320 North Lincoln Avenue
Loveland, CO 80537

p: 970.613.1447
www.tait.com

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

PREPARED UNDER THE SUPERVISION OF
TAIT & ASSOCIATES, INC.

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JOB NO: CQ1517

2
OF
38

BRIAN CAMPBELL
COLORADO P.E. #40196

Jul 24, 2026 - 12:55pm by nrmaster X:\ENGINEERING\CD\2015170 - Honor Charter School - Pylon, CO\ENR\Construction Drawings\201517_DEMO.dwg



Know what's below
Call before you dig.

DEMOLITION PLAN

UNAUTHORIZED CHANGES & USES

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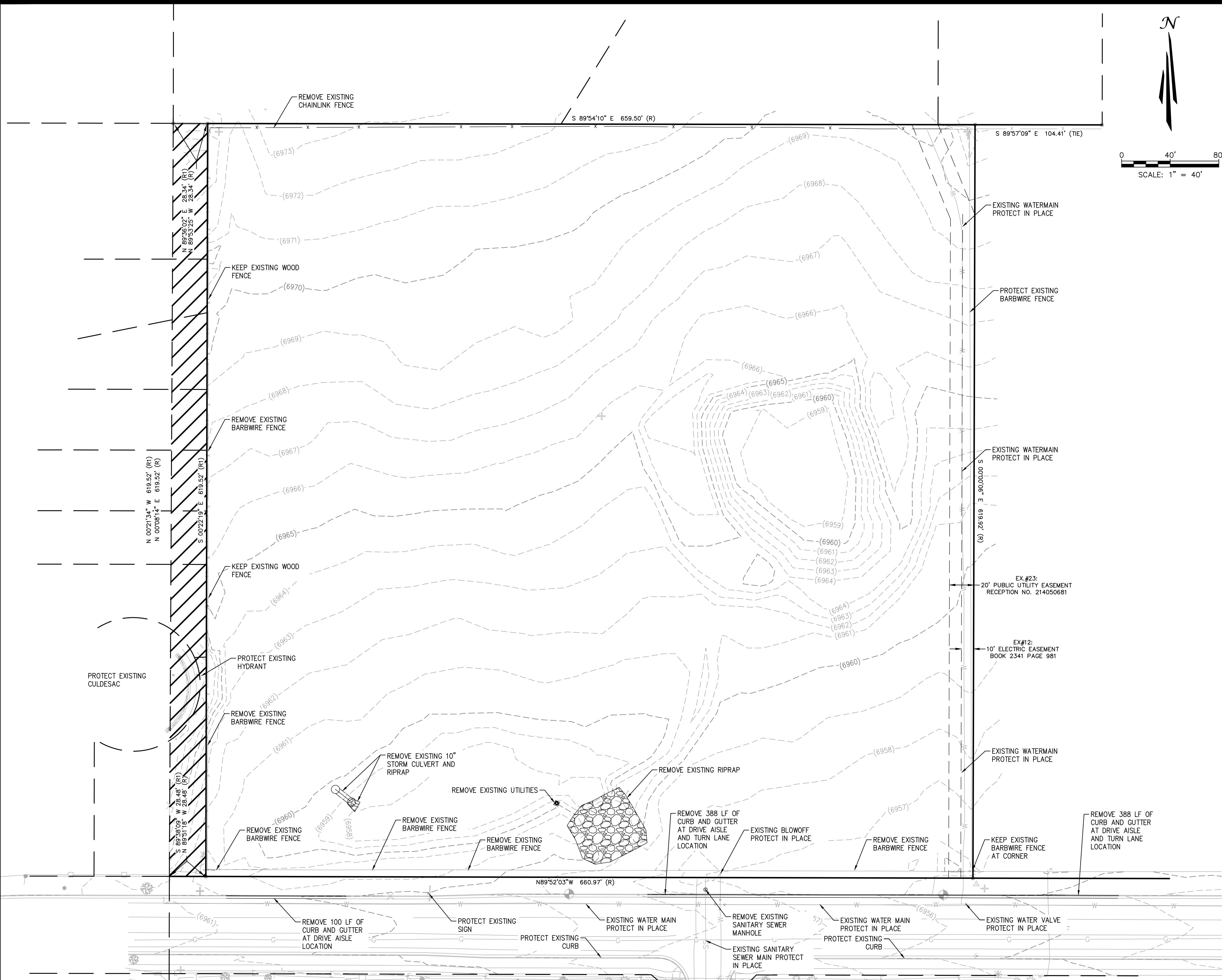
BENCHMARK:

ELEVATIONS ARE BASED ON THE PROJECT BENCHMARK IDENTIFIED AS JK0239 ELEVATION=6902.3'(NAVD88), PER DATA PUBLISHED BY THE NATIONAL GEODETIC SURVEY.

SYMBOLS LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY/ ROW LINE
	BUILDING SETBACK LINE
	PROPOSED EASEMENT
	LIMIT OF DISTURBANCE
	REMOVE EXISTING RIPRAP
	REMOVE EXISTING CURB
	REMOVE EXISTING FENCE
	EXISTING WATERLINE PROTECT IN PLACE
	EXISTING SEWER LINE PROTECT IN PLACE
	EXISTING RIP RAP TO BE REMOVED

0 40' 80'
SCALE: 1" = 40'



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3
OF
38

BRIAN CAMPBELL
COLORADO P.E. #40196

DEMOLITION PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.



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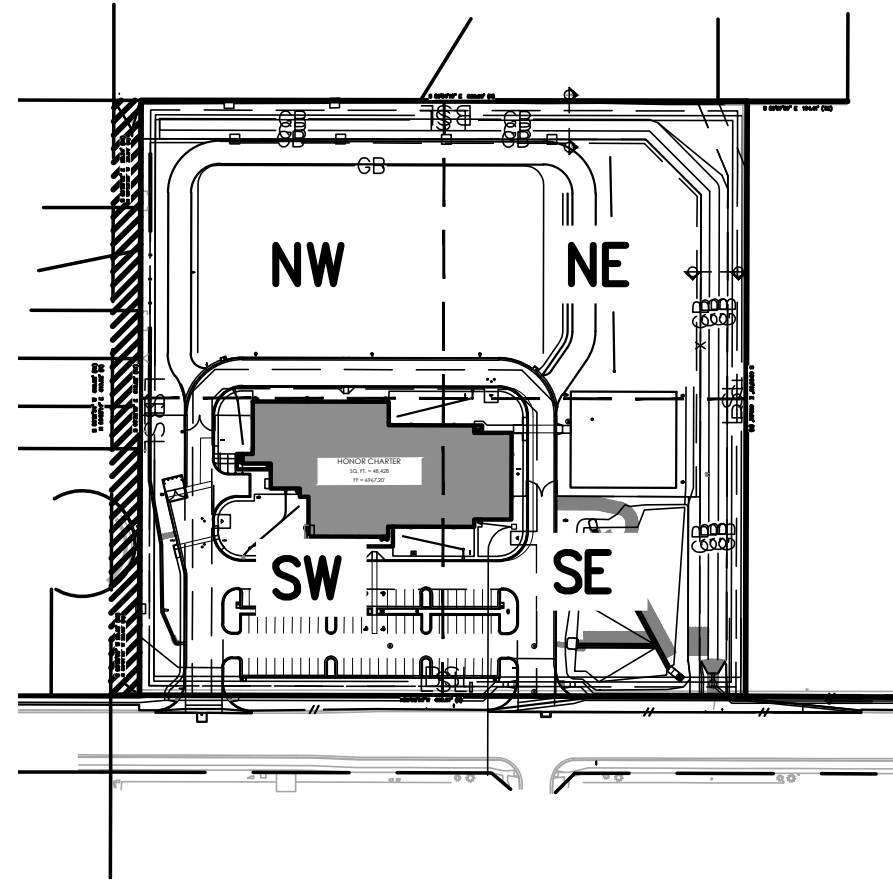
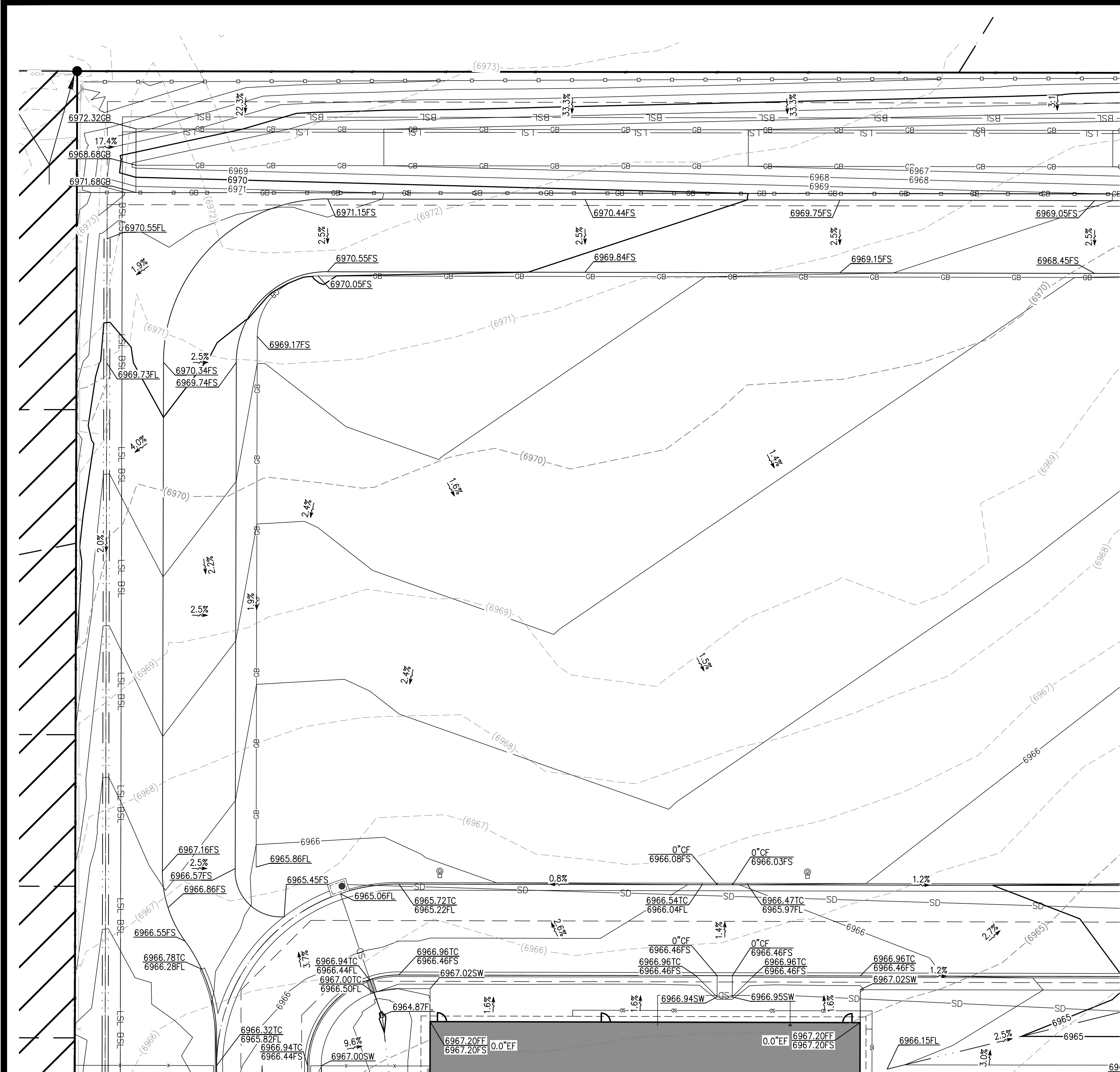
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KEY MAP

SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY/ ROW LINE
- BUILDING SETBACK LINE
- PROPOSED EASEMENT
- LIMIT OF CONSTRUCTION/DISTURBANCE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- PROPOSED TELEPHONE SERVICE LINE
- PROPOSED ELECTRIC SERVICE LINE
- PROPOSED WATER SERVICE LINE
- PROPOSED SS SERVICE LINE
- PROPOSED STORM DRAIN
- PROPOSED RIDGELINE
- PROPOSED GRADE BREAK
- PROPOSED CURB
- PROPOSED TOP OF POND
- PROPOSED BOTTOM OF POND
- GRADING DETAIL BOUNDARY
- PROPOSED SS CLEANOUT
- PROPOSED BACKFLOW PREVENTOR
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED STREET LIGHT
- EXISTING ELEVATION
- PROPOSED ELEVATION
- EXISTING CONTOUR
- PROPOSED CONTOUR
- EXISTING SLOPE
- PROPOSED SLOPE
- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM INFRASTRUCTURE
- PROPOSED STORM MANHOLE
- PROPOSED TEE / THRUST BLOCK
- PROPOSED FLARED-END SECTION
- EXISTING SANITARY SEWER MANHOLE

ABBREVIATIONS:
CURB FACE CF
EXPOSED FOUNDATION EF
EXISTING GROUND EG
EXISTING SURFACE ES
FINISHED FLOOR FF
FLOW LINE FL
FINISHED SURFACE FS
INVERT INV
SIDEWALK SW
TOP OF CURB TC



NORTHWEST GRADING PLAN

UNAUTHORIZED CHANGES & USES

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BENCHMARK:

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NORTHWEST GRADING PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

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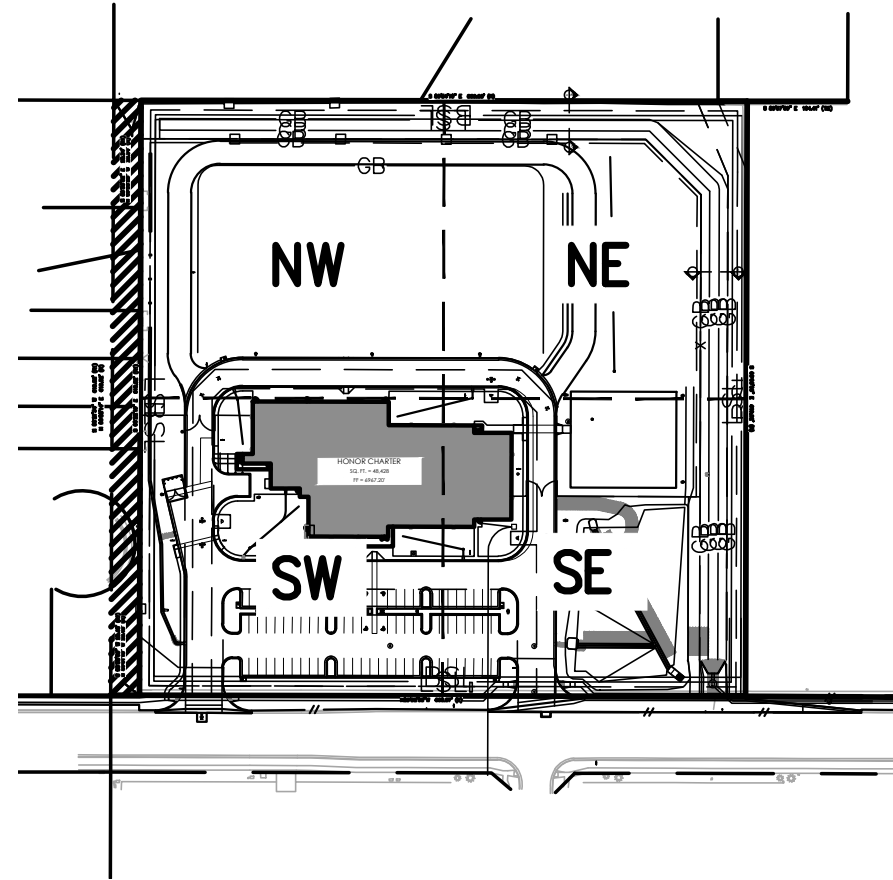
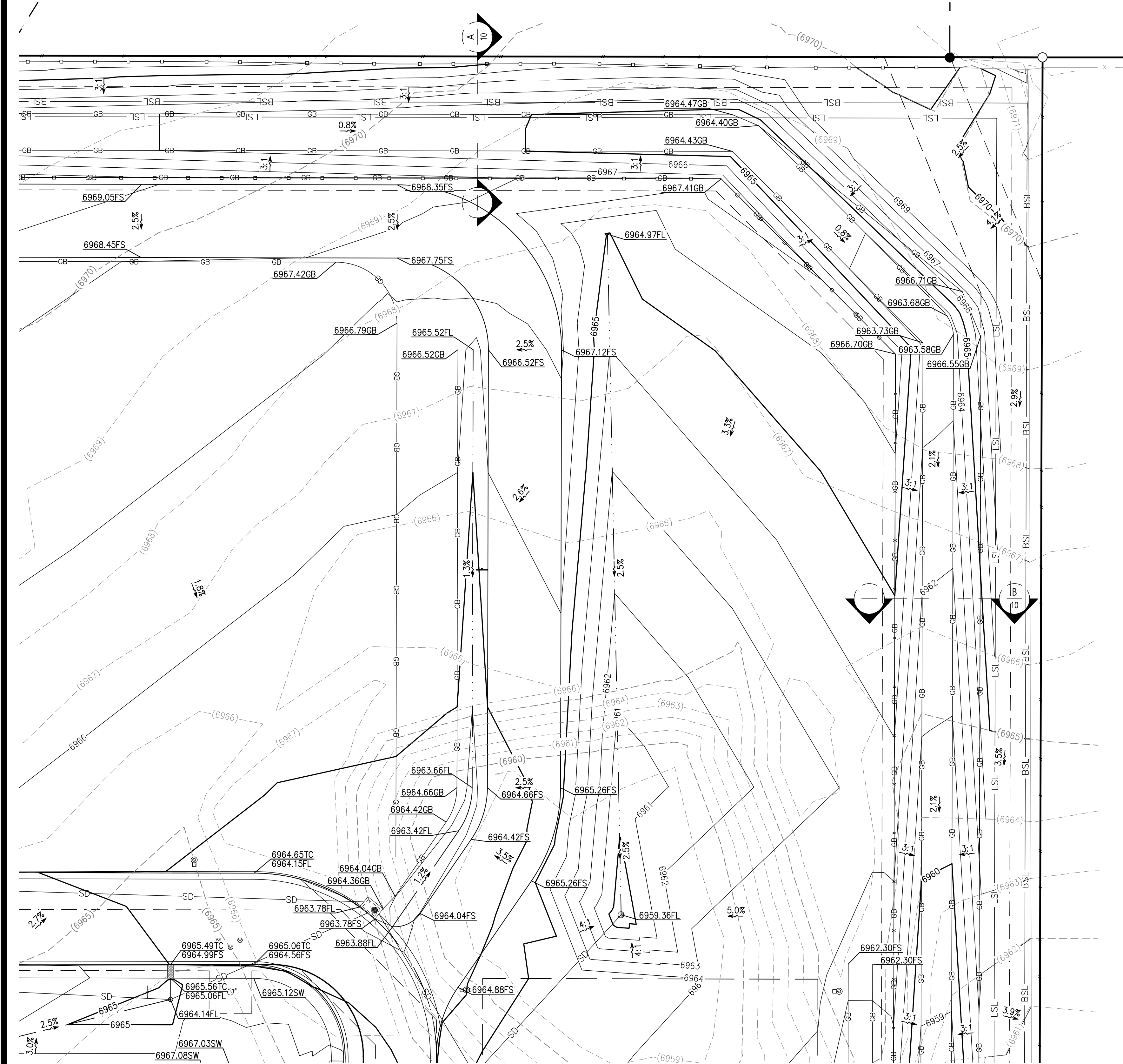
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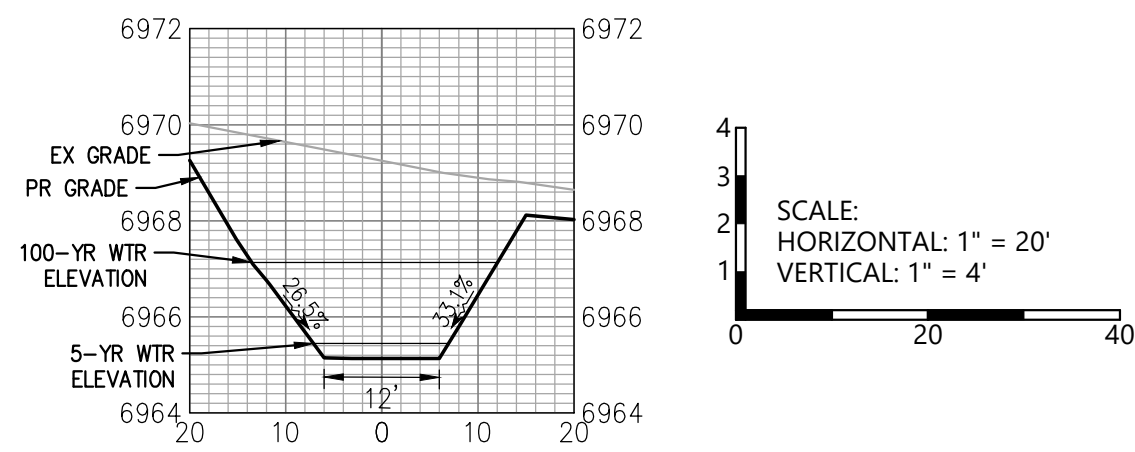
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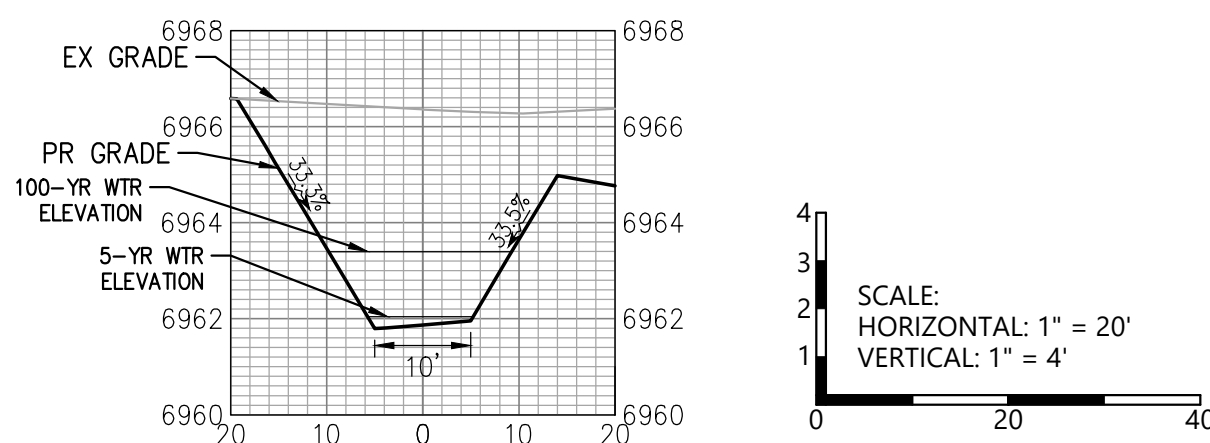
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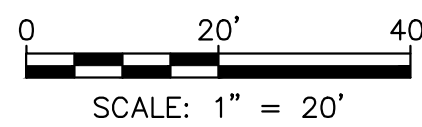
KEY MAP



SECTION A — SWALE



SECTION B — SWALE



SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY/ ROW LINE
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- PROPOSED STORM MANHOLE
- PROPOSED TEE / THRUST BLOCK
- PROPOSED FLARED-END SECTION
- EXISTING SANITARY SEWER MANHOLE

ABBREVIATIONS:

- CURB FACE
- EXPOSED FOUNDATION
- EXISTING GROUND
- EXISTING SURFACE
- FINISHED FLOOR
- FLOW LINE
- FINISHED SURFACE
- INVERT
- SIDEWALK
- TOP OF CURB
- CF
- EF
- EG
- ES
- FF
- FL
- FS
- INV
- SW
- TC

NORTHEAST GRADING PLAN

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NORTHEAST GRADING PLAN

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HIGHMARK SCHOOL DEVELOPMENT
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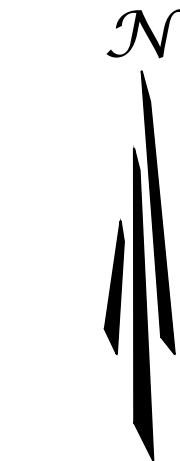
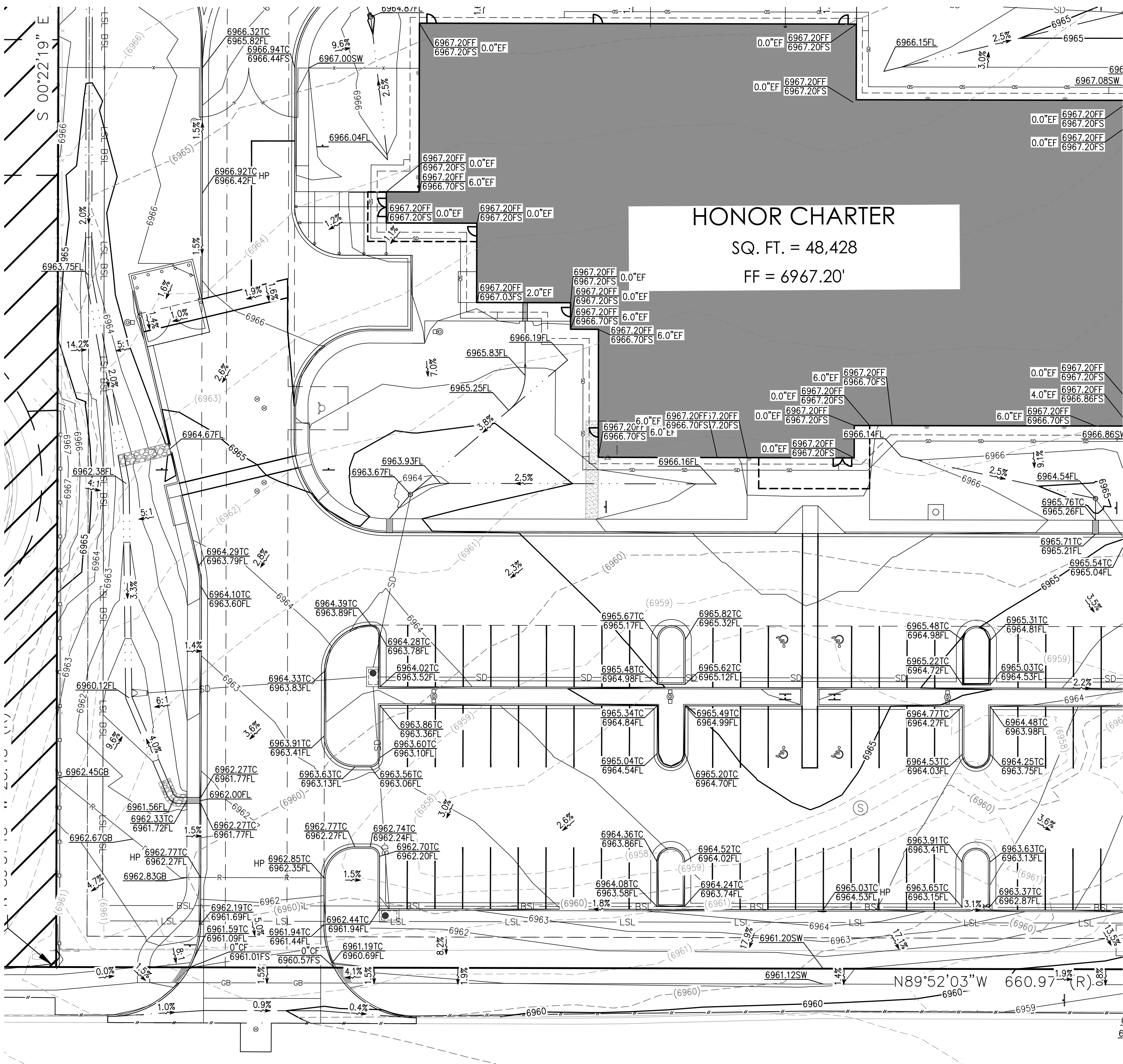
SOUTHWEST GRADING PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

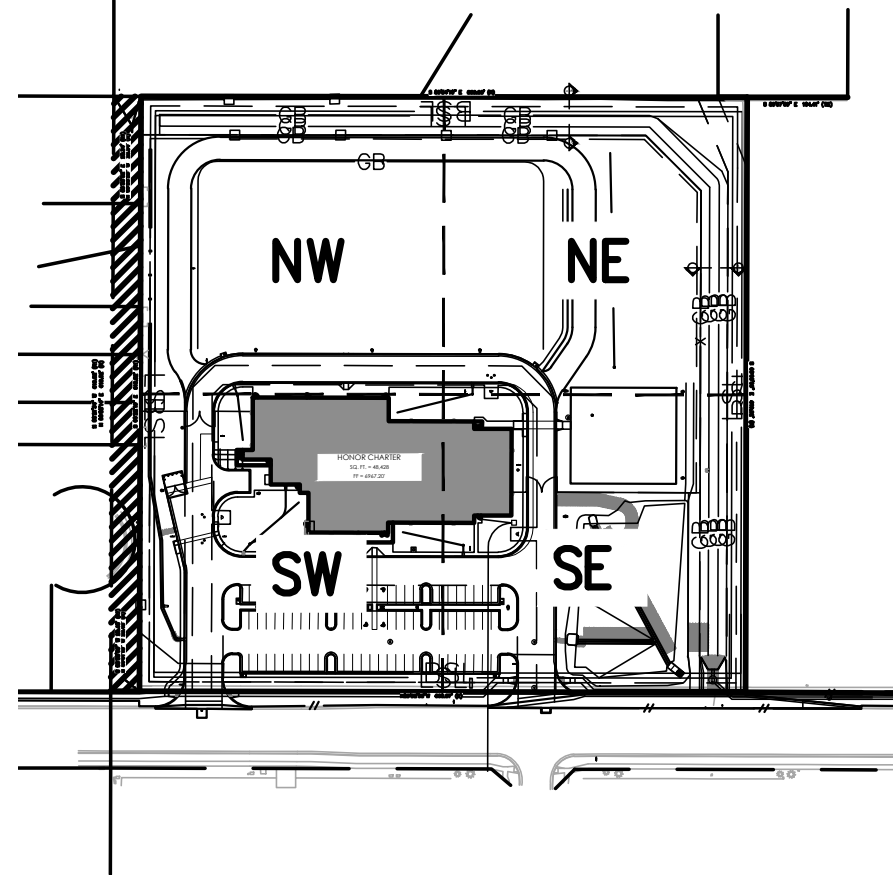
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0 20' 40'
SCALE: 1" = 20'



KEY MAP

SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY/ ROW LINE
- BUILDING SETBACK LINE
- PROPOSED EASEMENT
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ABBREVIATIONS:

CURB FACE
EXPOSED FOUNDATION
EXISTING GROUND
EXISTING SURFACE
FINISHED FLOOR
FLOW LINE
FINISHED SURFACE
INVERT
SIDEWALK
TOP OF CURB

CF
EF
EG
ES
FL
FS
INV
SW
TC

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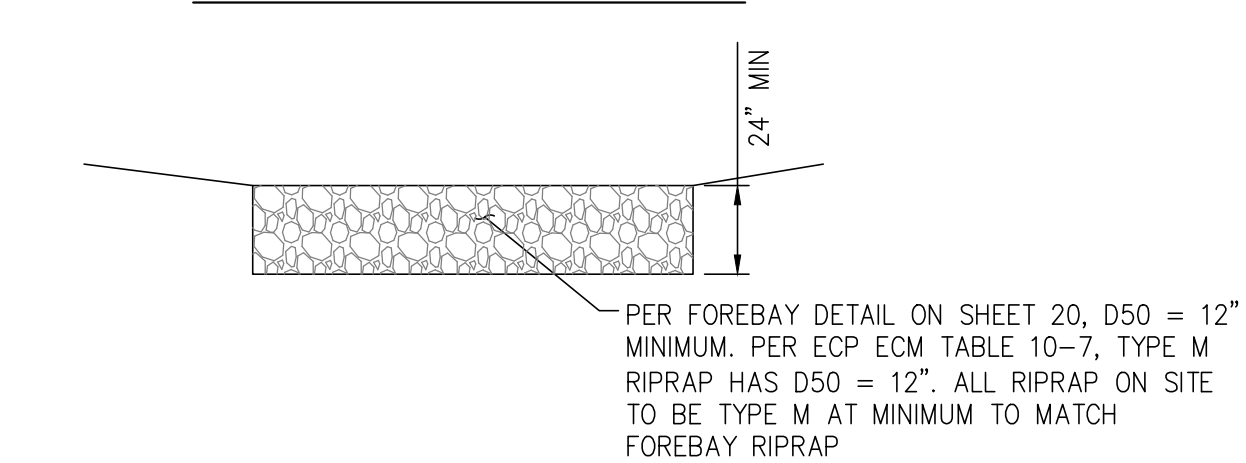
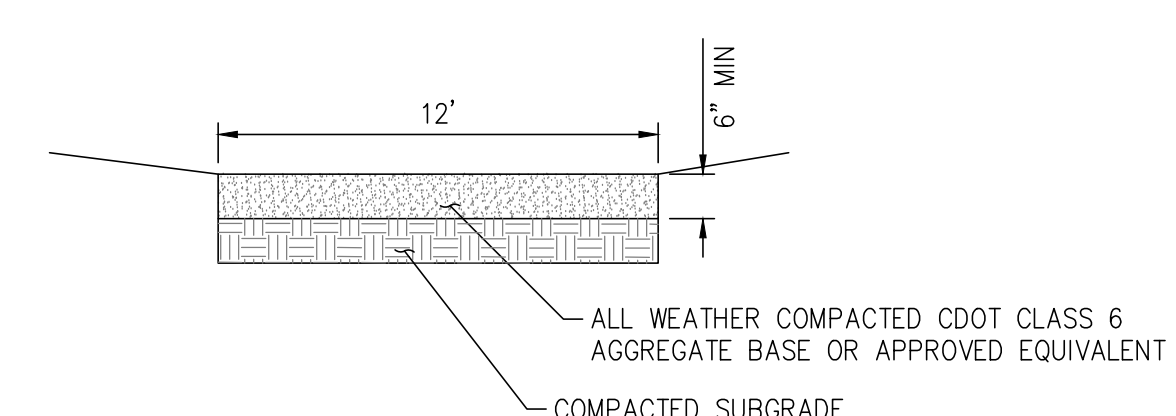
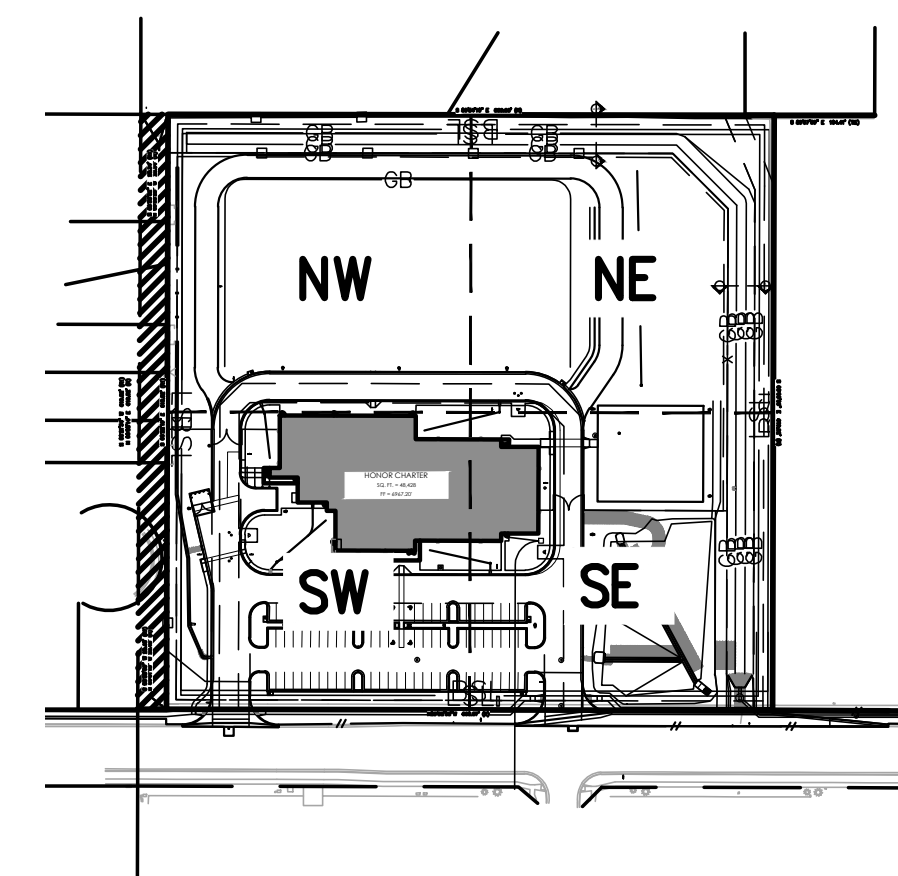
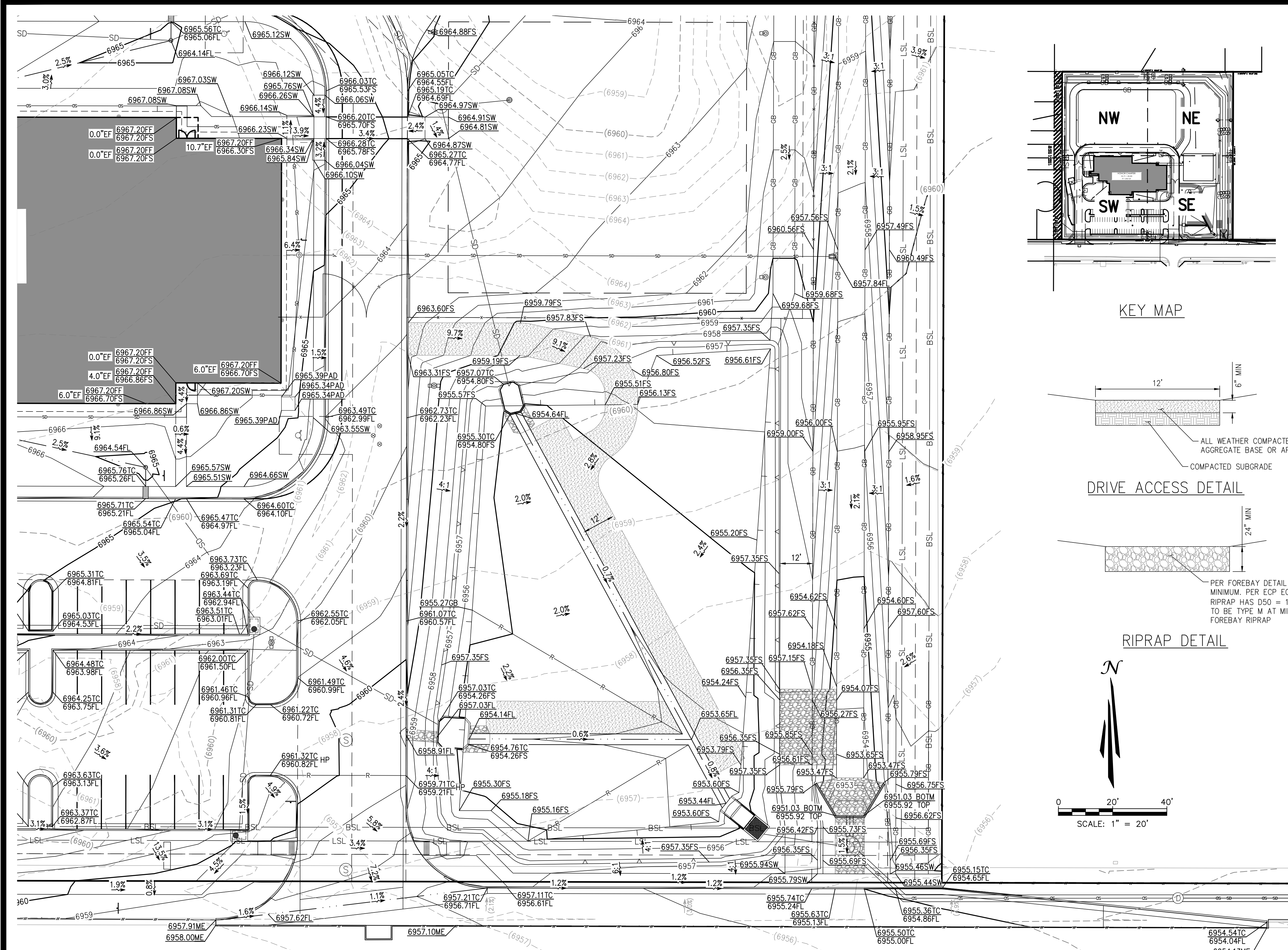
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SYMBOLS LEGEND

- PROPERTY LINE
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- PROPOSED TEE / THRUST BLOCK
- PROPOSED FLARED-END SECTION
- EXISTING SANITARY SEWER MANHOLE

- ABBREVIATIONS:
- | | |
|--------------------|-----|
| CURB FACE | CF |
| EXPOSED FOUNDATION | EF |
| EXISTING GROUND | EG |
| EXISTING SURFACE | ES |
| FINISHED FLOOR | FF |
| FLOW LINE | FL |
| FINISHED SURFACE | FS |
| INVERT | INV |
| SIDEWALK | SW |
| TOP OF CURB | TC |

SOUTHEAST GRADING PLAN



UNAUTHORIZED CHANGES & USES

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BRIAN CAMPBELL
COLORADO P.E. #40196

SOUTHEAST GRADING PLAN

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HIGHMARK SCHOOL DEVELOPMENT
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DRAWING C.W.
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STORMWATER PLAN

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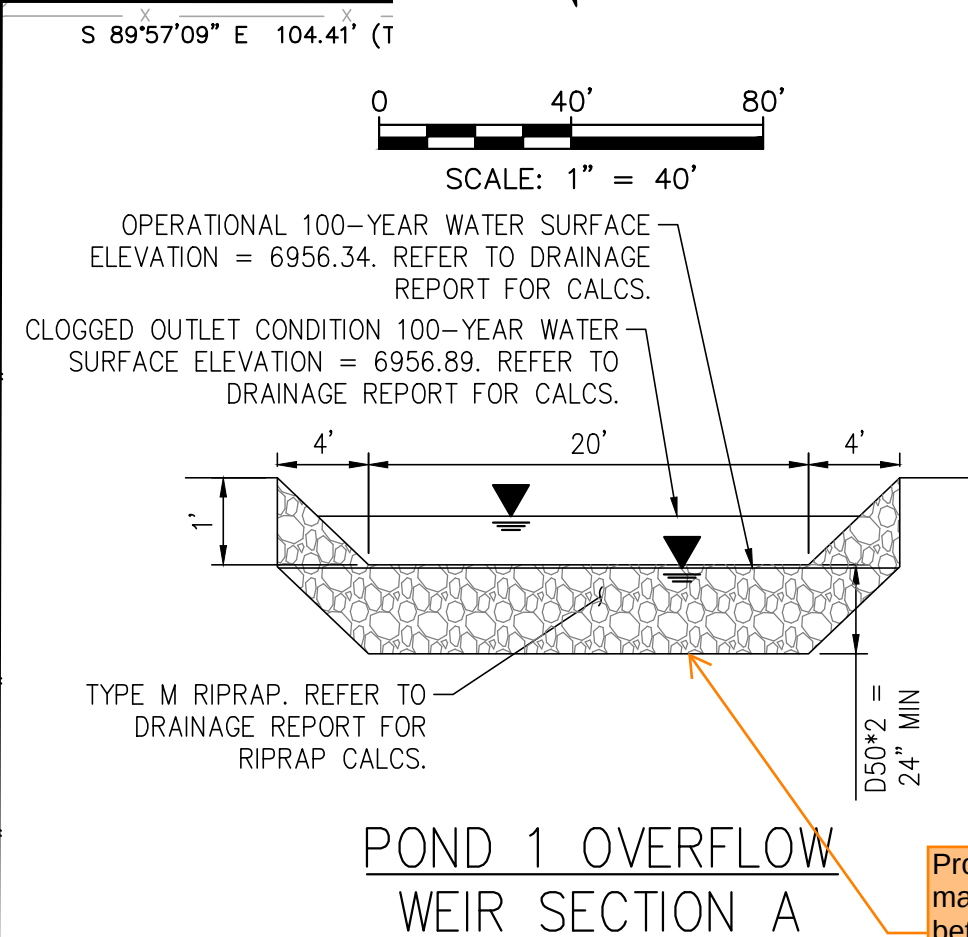
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BENCHMARK:

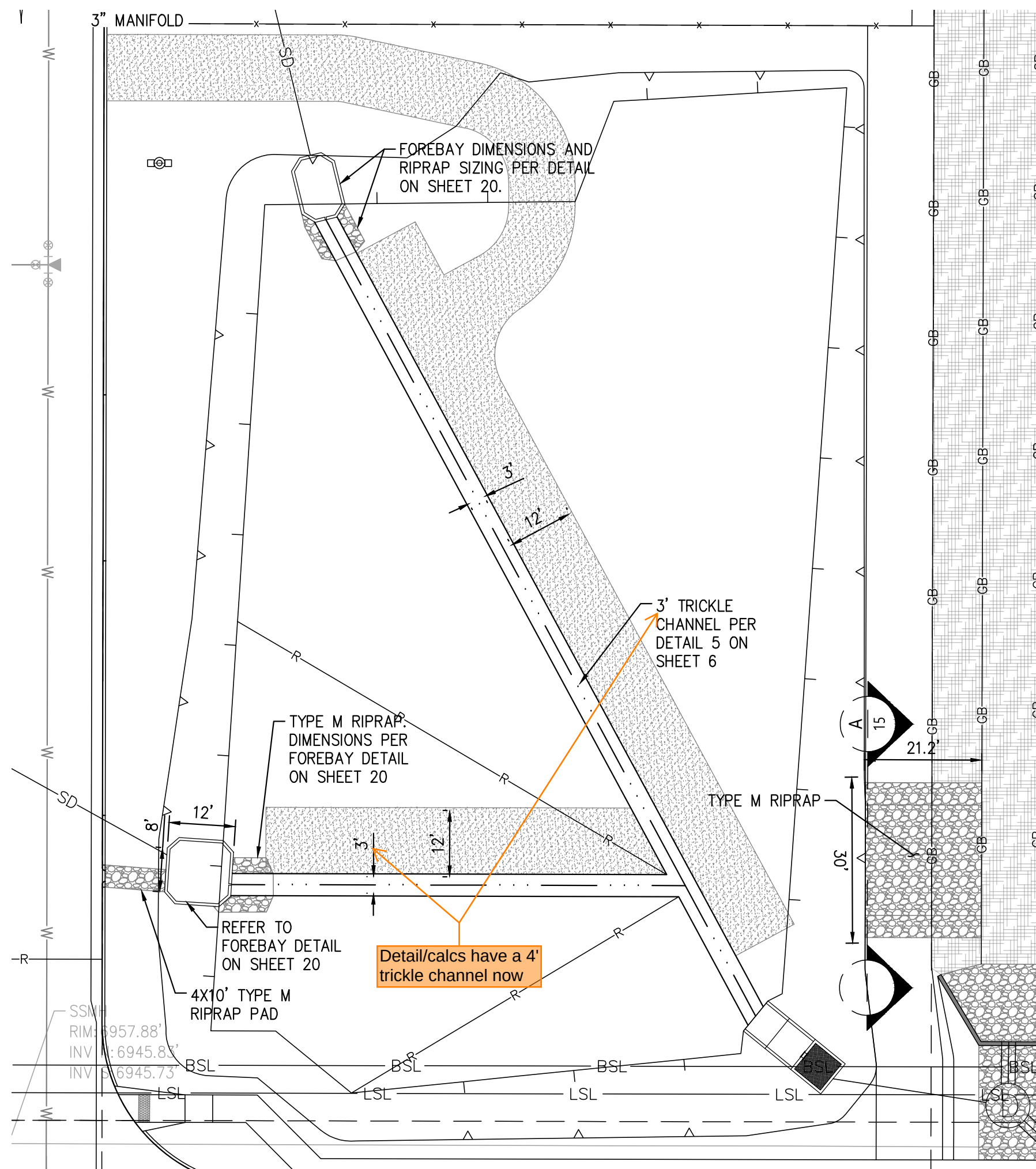
ELEVATIONS ARE BASED ON THE PROJECT BENCHMARK IDENTIFIED AS JK0239 ELEVATION=6902.3'(NAVD88), PER DATA PUBLISHED BY THE NATIONAL GEODETIC SURVEY.

SYMBOLS LEGEND

---	PROPERTY LINE
---	ADJACENT PROPERTY LINE
---	ROW LINE
---	BUILDING SETBACK LINE
---	PROPOSED EASEMENT
---	LIMIT OF DISTURBANCE
---	EXISTING WATER LINE
---	EXISTING SEWER LINE
---	PROPOSED TELEPHONE SERVICE LINE
---	PROPOSED ELECTRIC SERVICE LINE
---	PROPOSED WATER SERVICE LINE
---	PROPOSED SS SERVICE LINE
---	PROPOSED STORM DRAIN
---	PROPOSED RIDGELINE
---	PROPOSED GRADE BREAK
---	PROPOSED TOP OF POND
---	PROPOSED BOTTOM OF POND
---	PROPOSED SIGN
---	PROPOSED SS CLEANOUT
---	PROPOSED BACKFLOW PREVENTOR
---	EXISTING FIRE HYDRANT
---	PROPOSED FIRE HYDRANT
---	PROPOSED STREET LIGHT
---	EXISTING INLET
---	PROPOSED INLET
---	PROPOSED STORM INFRASTRUCTURE
---	PROPOSED STORM MANHOLE
---	PROPOSED TEE / THRUST BLOCK
---	PROPOSED FLARED-END SECTION
---	EXISTING SANITARY SEWER MANHOLE
---	PROPOSED TURF REINFORCEMENT MAT



Provide bedding material/geotextile fabric between riprap and sub-base (per DCMV1 - Chap 10.10.5).



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TAIT & ASSOCIATES, INC.

BRIAN CAMPBELL
COLORADO P.E. #40196

STORMWATER PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWN BY: C.W.
DATE: 11/11/2024
CHECKED: [blank]
DATE: [blank]
REVISION #: [blank]
DATE: [blank]
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BENCHMARK:

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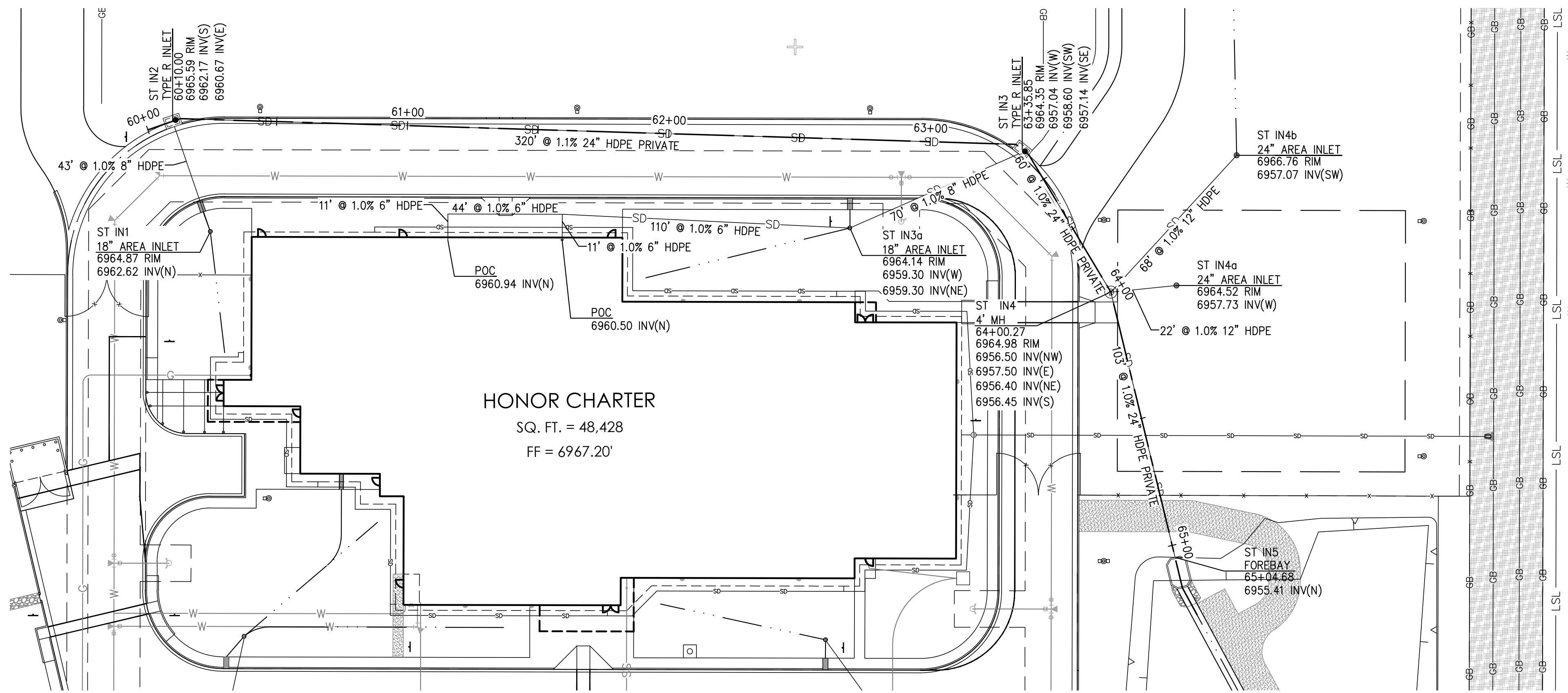
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COLORADO P.E. #40196

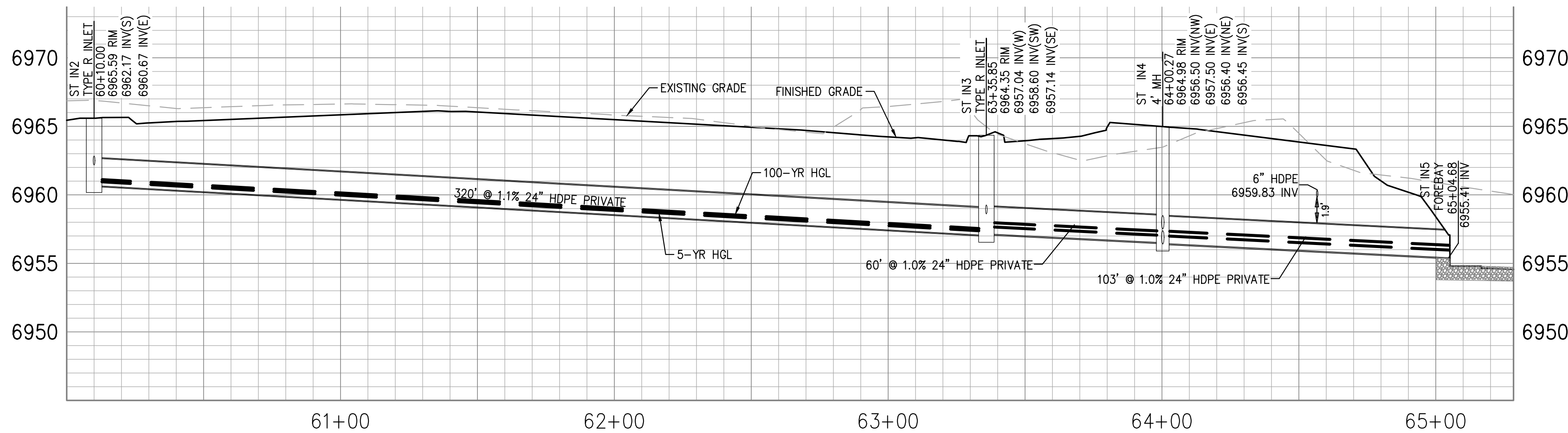
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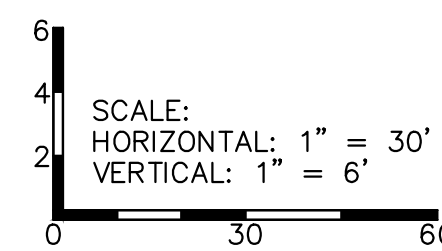
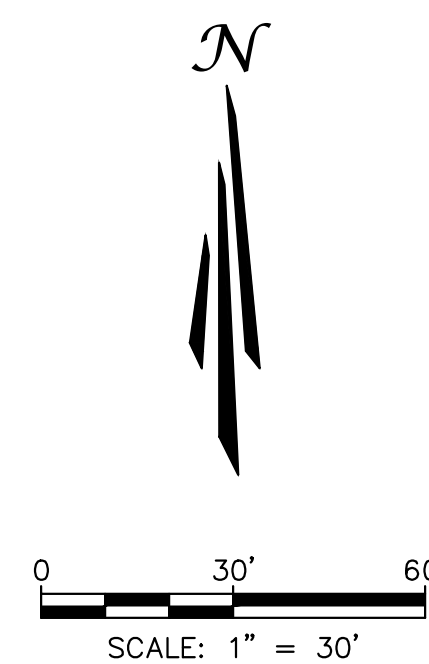
STORMWATER PLAN 1



STORMWATER PROFILE 1

SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- ROW LINE
- BUILDING SETBACK LINE
- PROPOSED EASEMENT
- LIMIT OF DISTURBANCE
- EXISTING WATER LINE
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STORMWATER P&P

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HIGHMARK SCHOOL DEVELOPMENT
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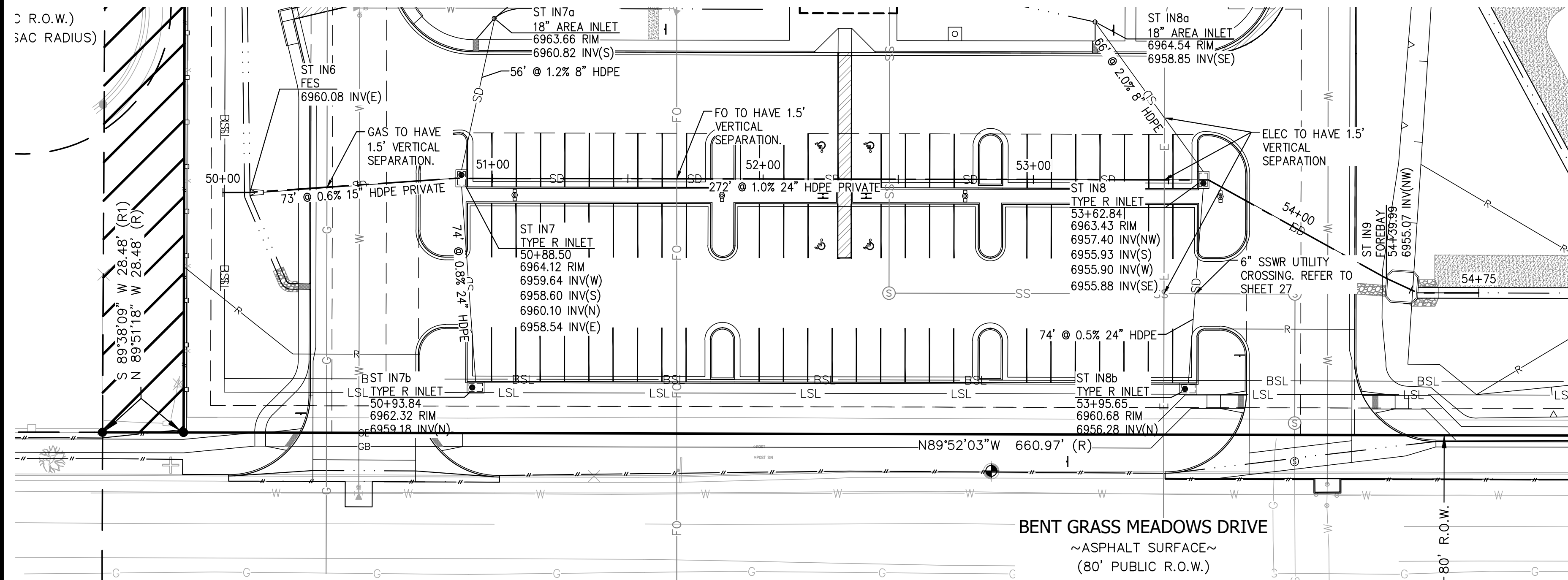
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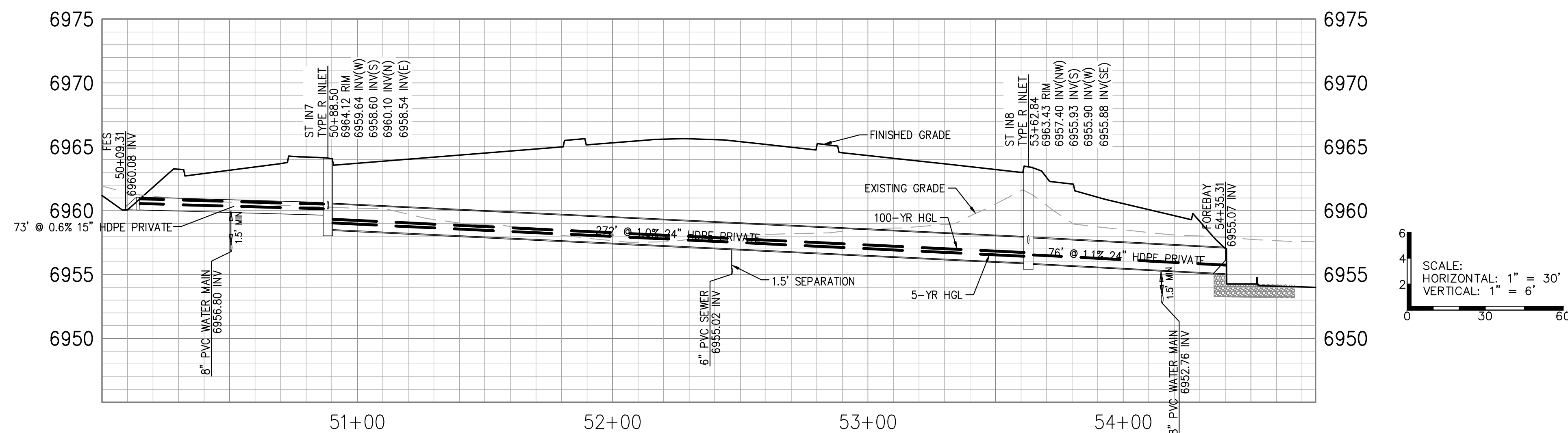
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STORMWATER PLAN 2



STORMWATER PROFILE 2



UNAUTHORIZED CHANGES & USES

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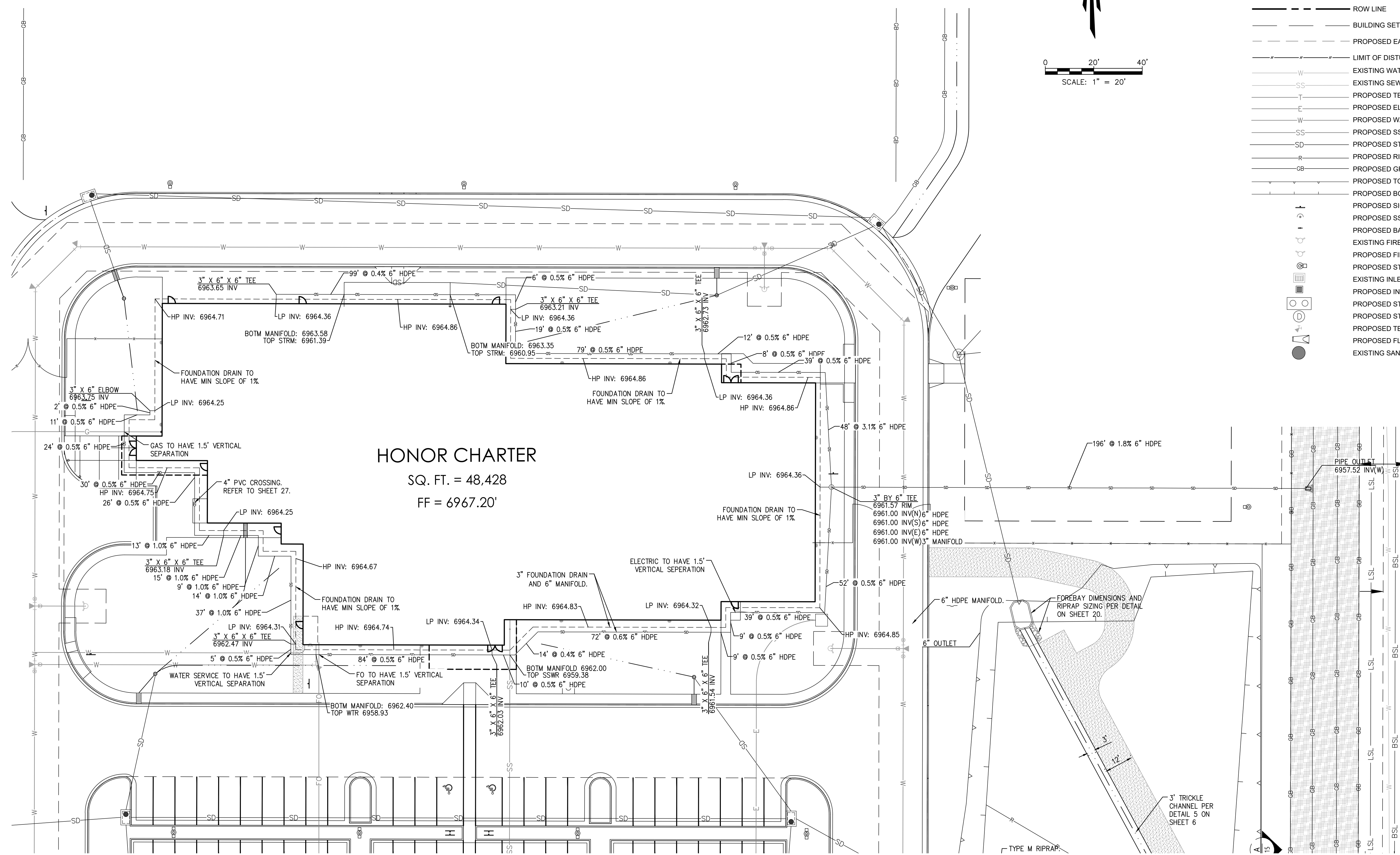
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Jul 24, 2026 - 12:58pm by nrmaster@k: \ENGINEERING\CD\CD15170 - Honor Charter School - Pylon, CO\VEN\Construction Drawings\CD1517_PP-ST.dwg



SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- ROW LINE
- BUILDING SETBACK LINE
- PROPOSED EASEMENT
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- PROPOSED STORM MANHOLE
- PROPOSED TEE / THRUST BLOCK
- PROPOSED FLARED-END SECTION
- EXISTING SANITARY SEWER MANHOLE

HONOR CHARTER
SQ. FT. = 48,428
FF = 6967.20'

FOUNDATION DRAIN PLAN

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BRIAN CAMPBELL
COLORADO P.E. #40196

FOUNDATION DRAIN PLAN
HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

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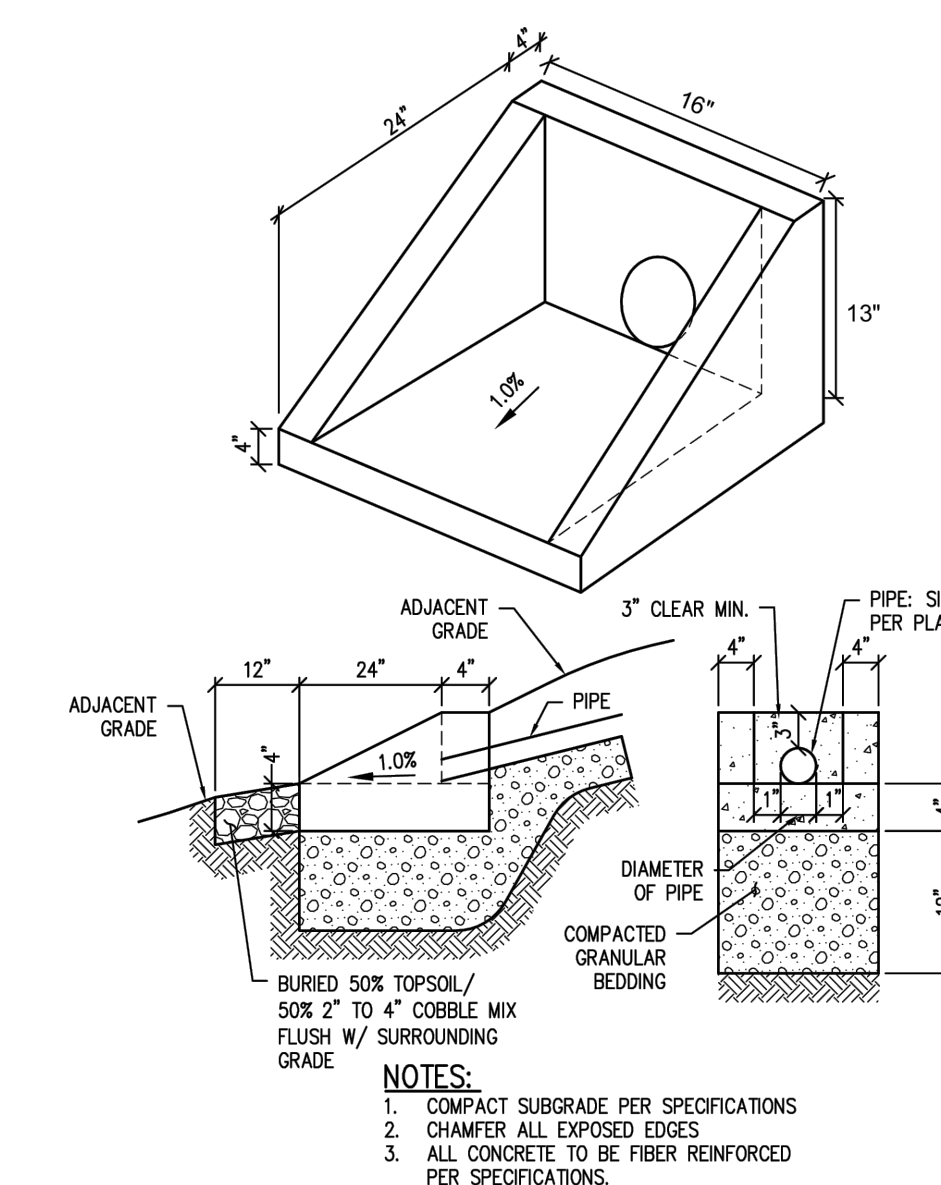
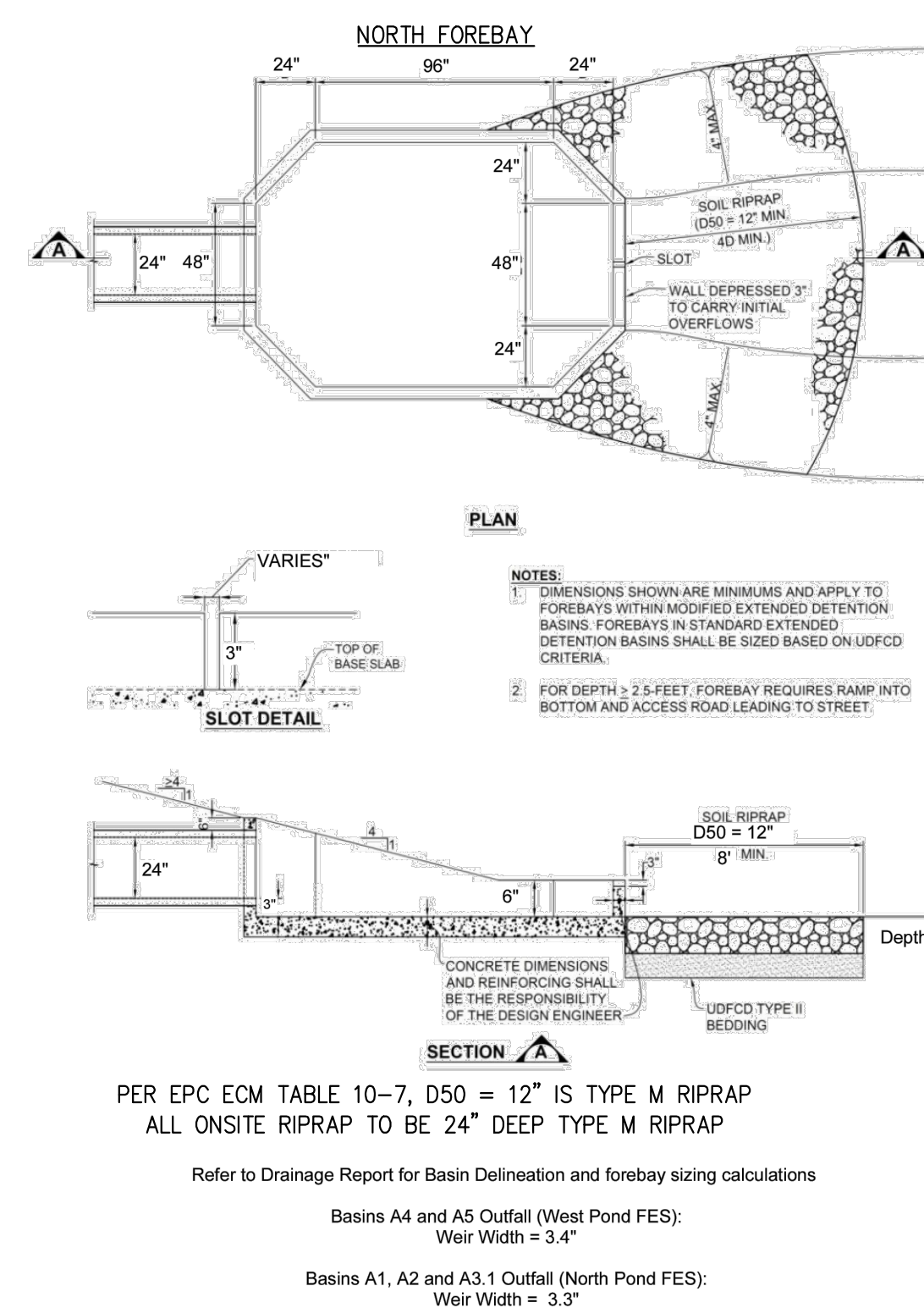
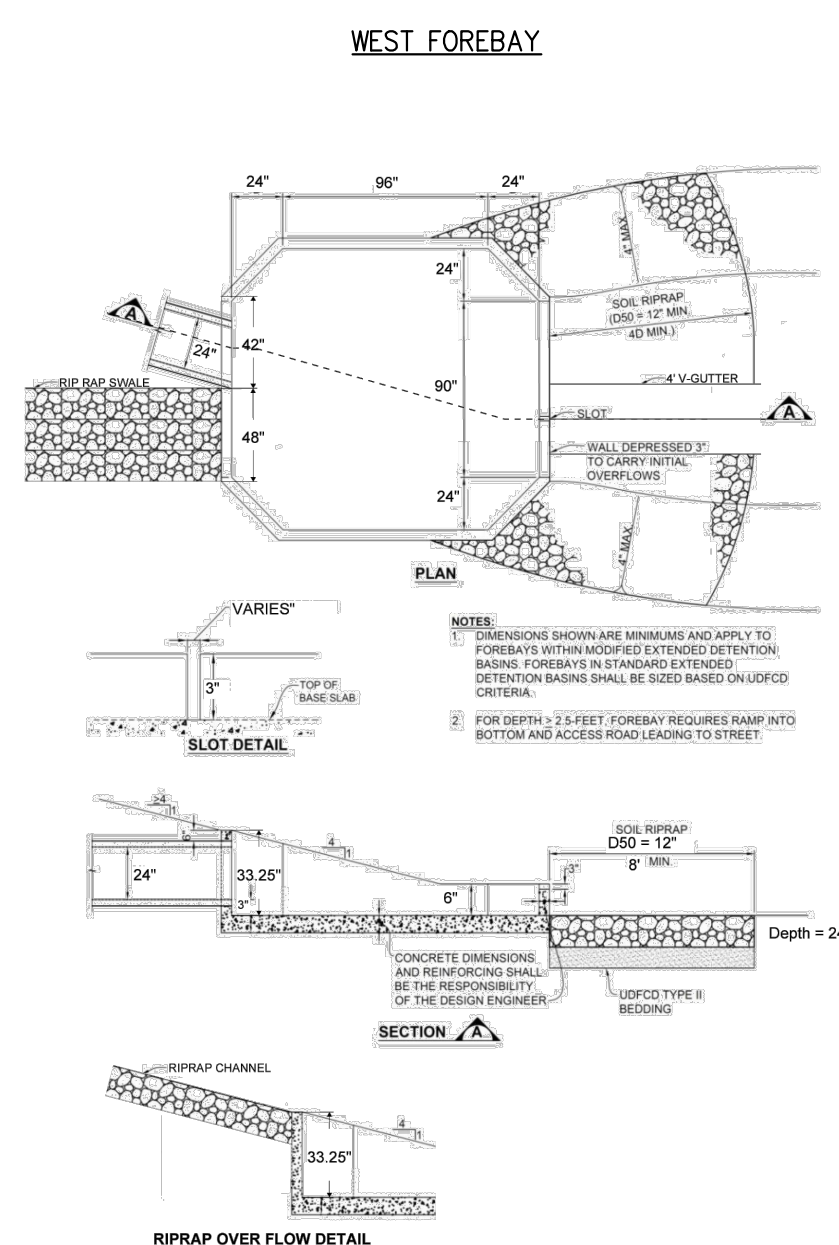
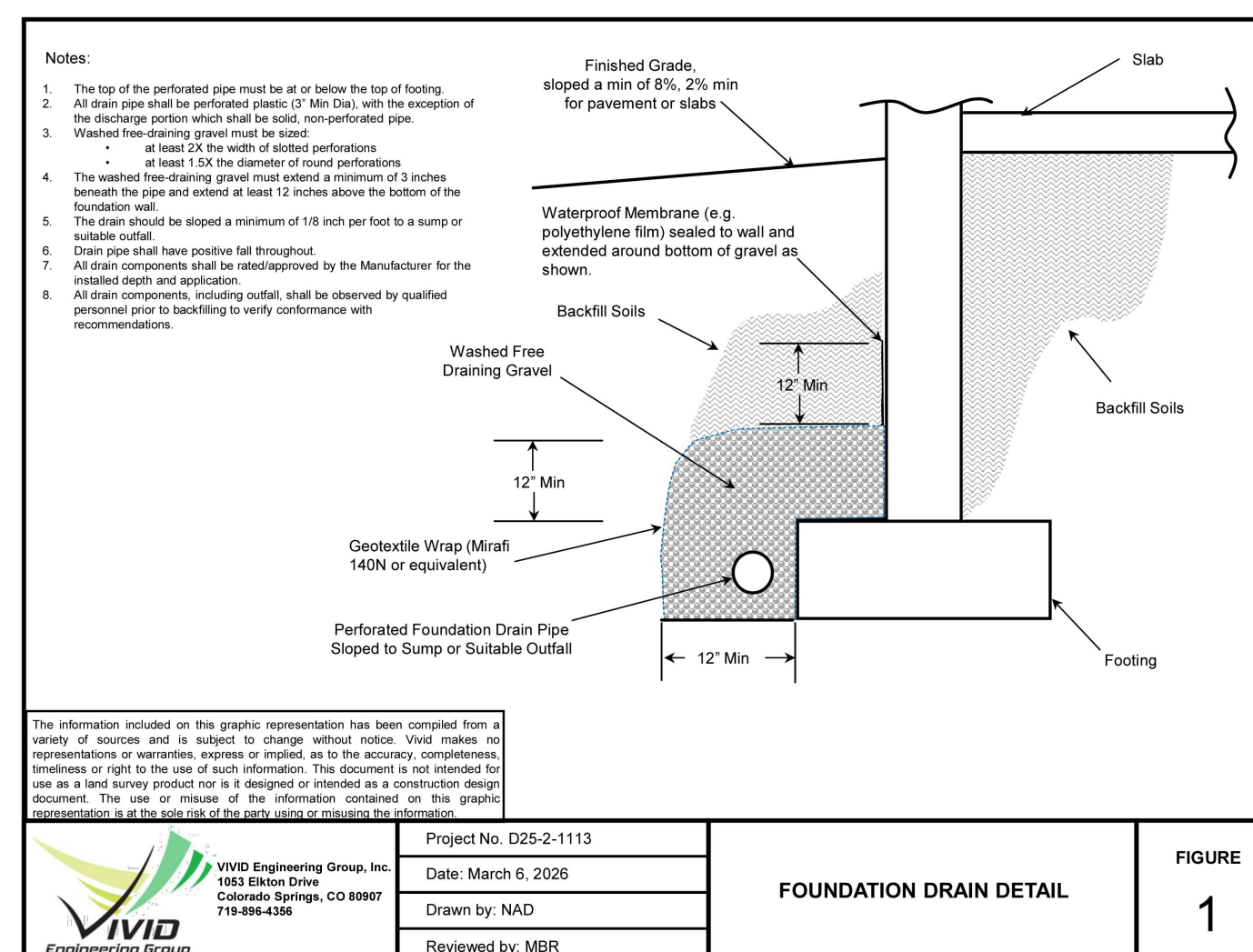
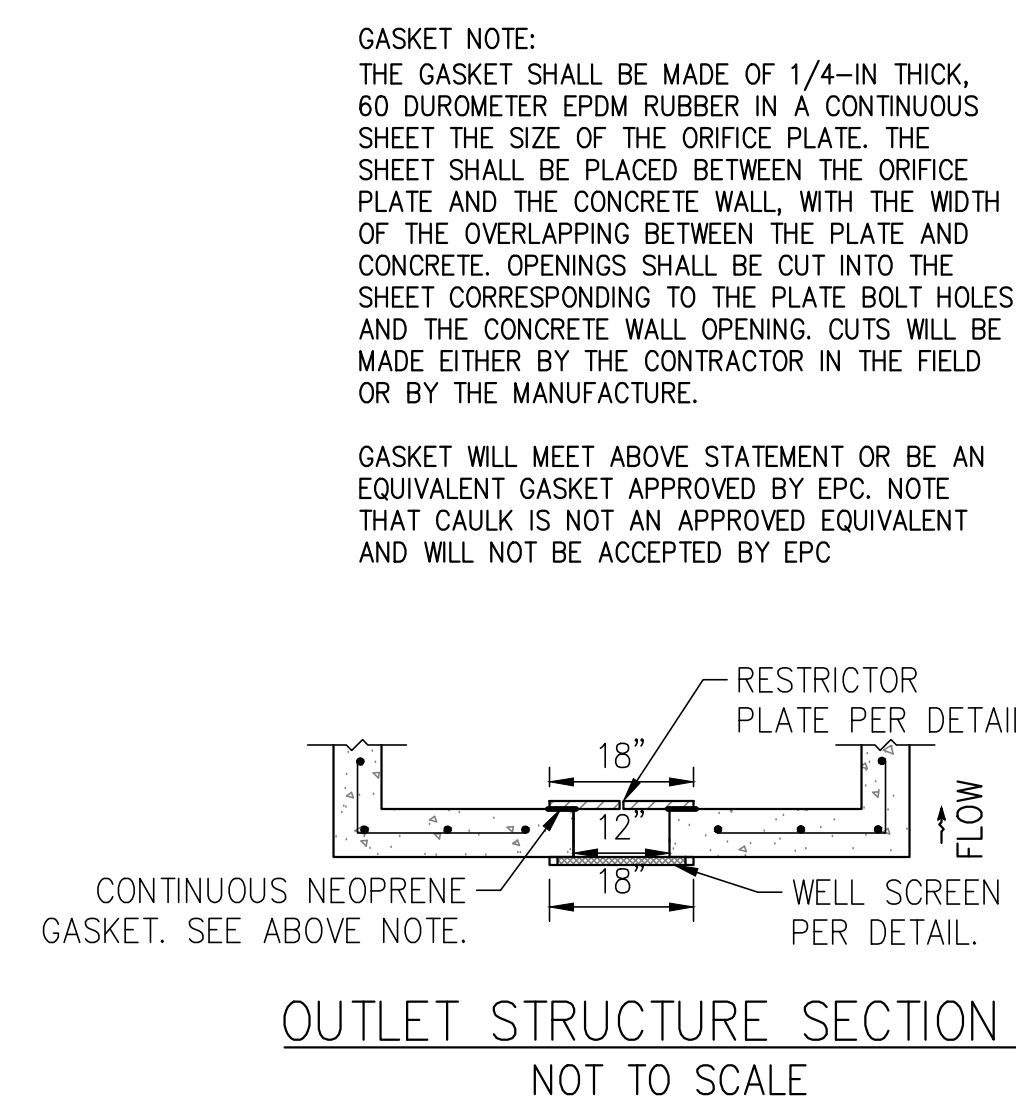
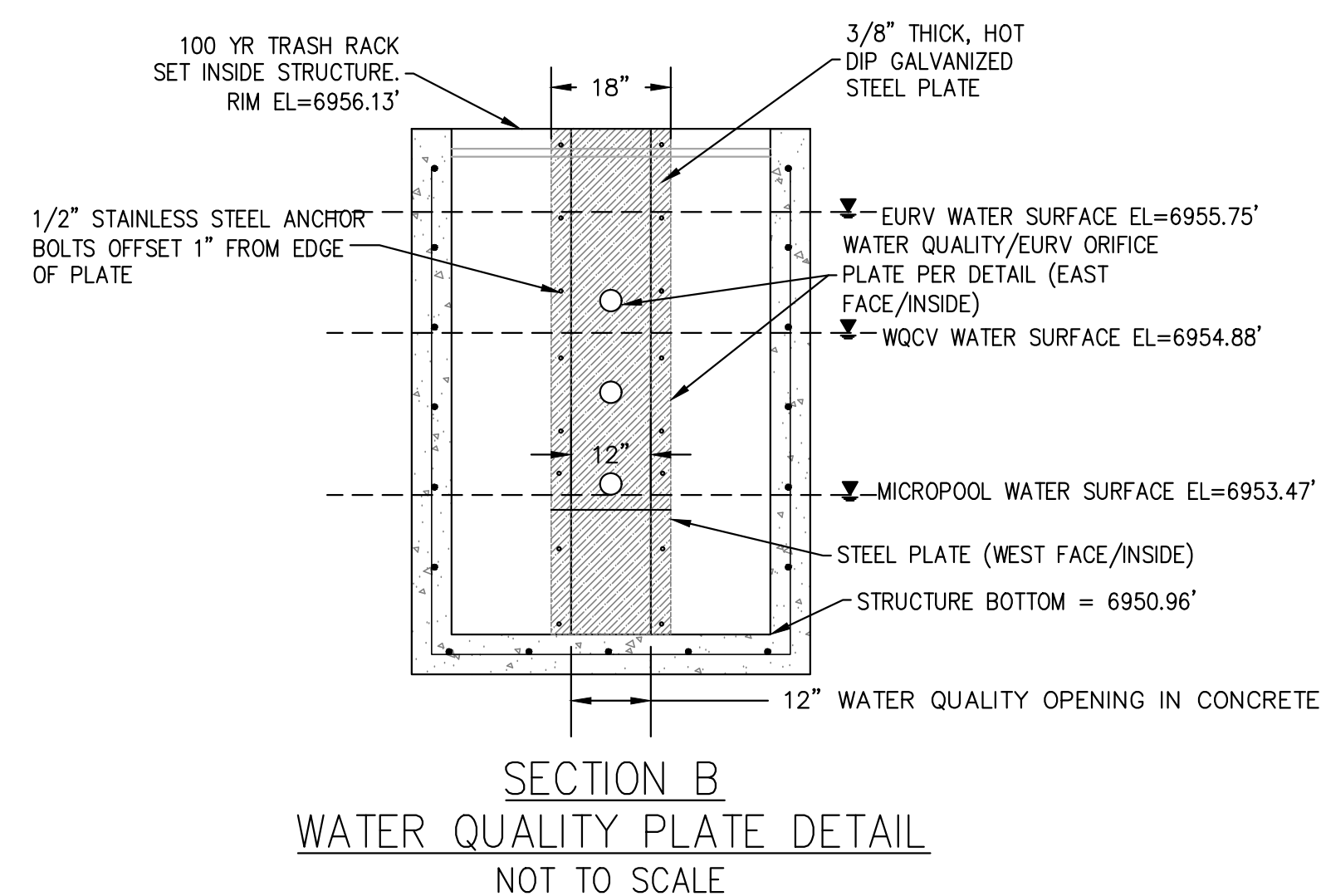
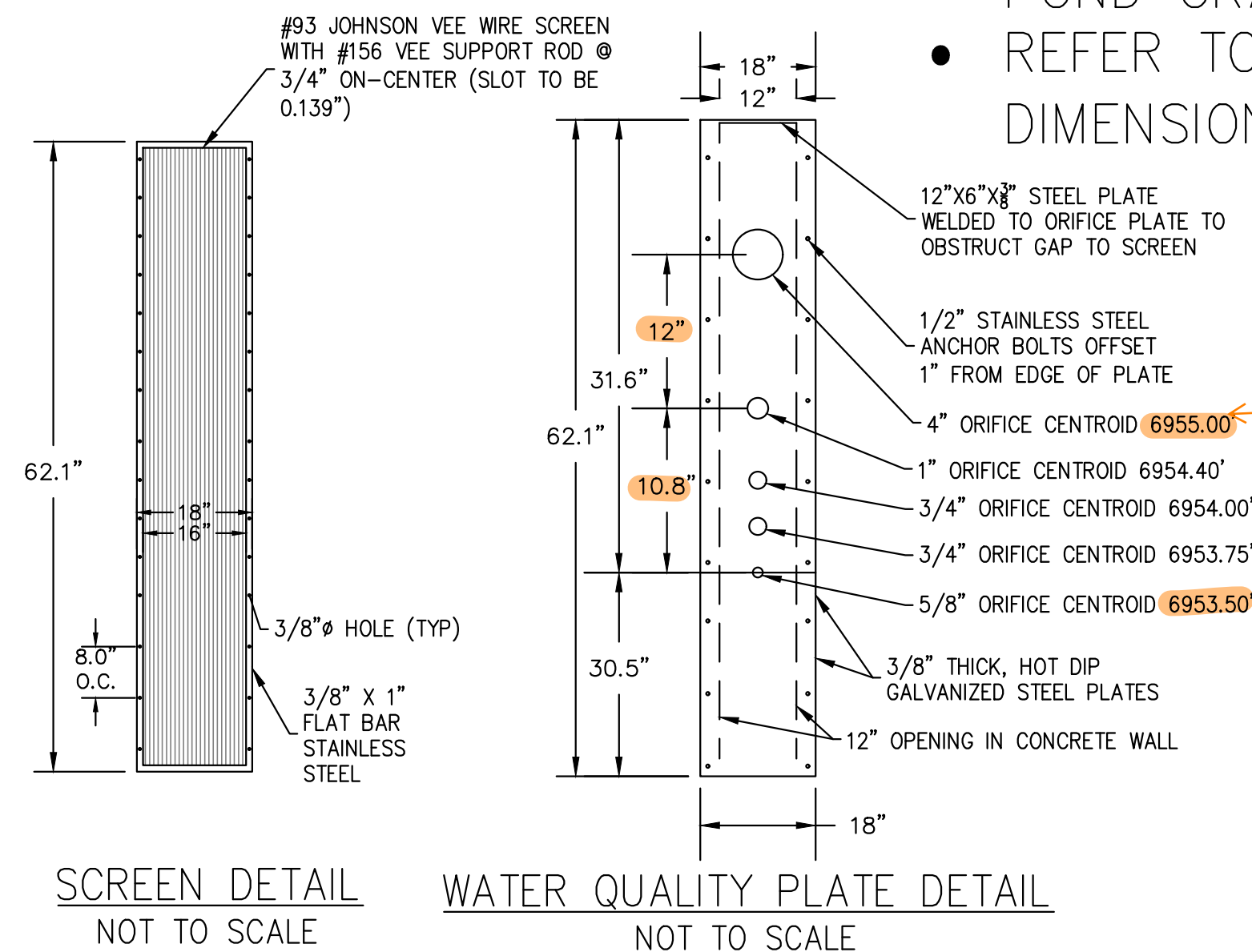
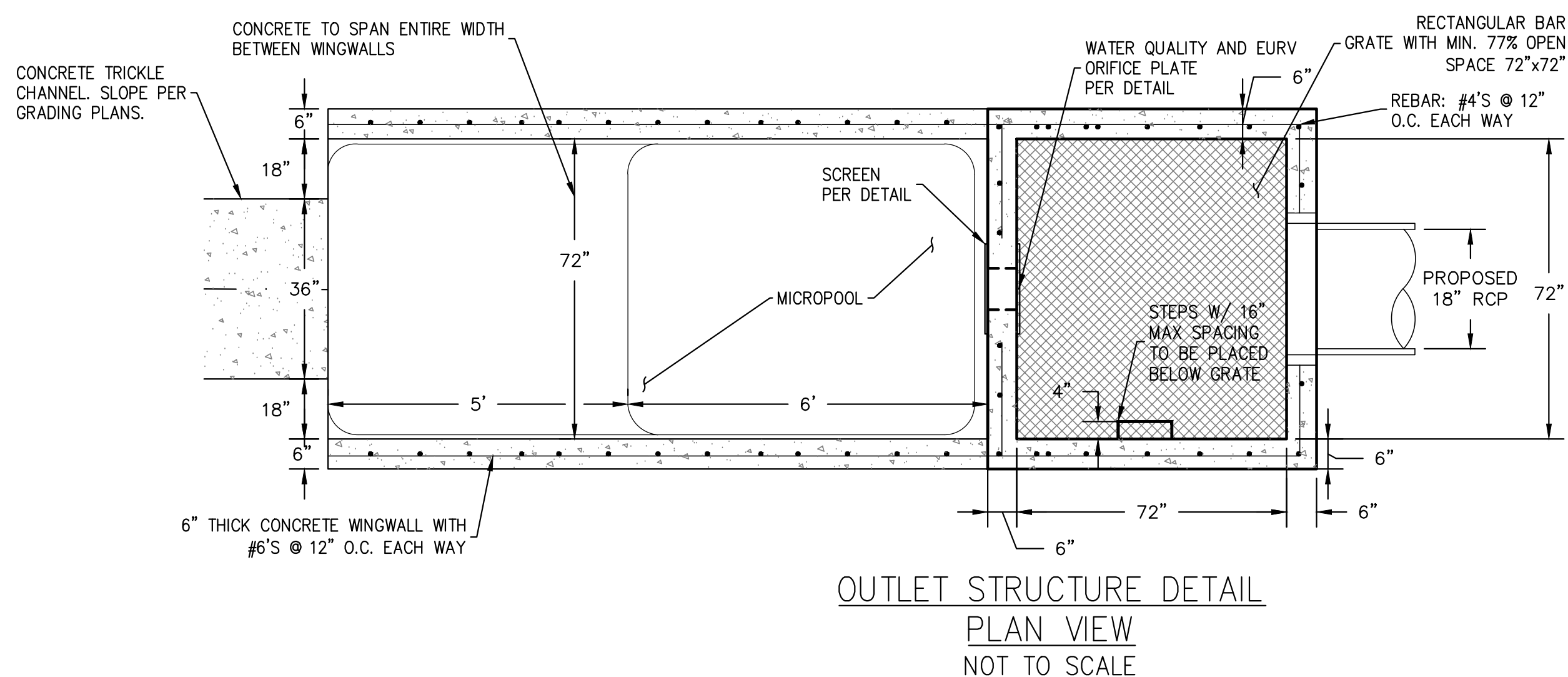
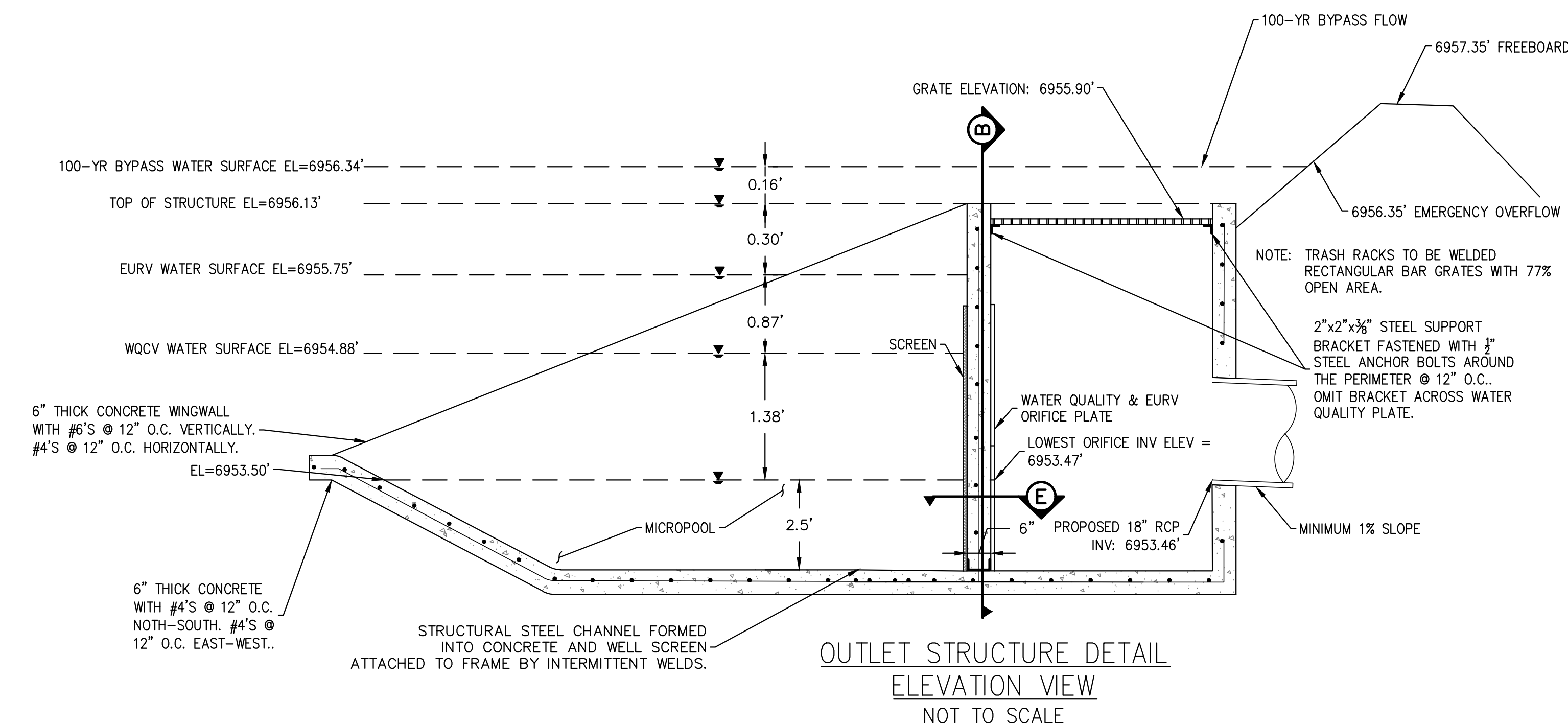
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NOTE:

- MINIMUM COMPRESSIVE STRENGTH = 4,000 PSI
- REFER TO GRADING DETAILS SHEETS FOR POND GRADING
- REFER TO STORMWATER PLAN FOR DIMENSIONS ON POND/POND COMPONENTS

Stage of orifice centroid does not match MHFD detention spreadsheet. The calcs and dimensions match (1.9') but the elevations have this orifice only 1.5' above the lowest orifice.

GASKET NOTE:
THE GASKET SHALL BE MADE OF 1/4-IN THICK,
60 DUROMETER EPDM RUBBER IN A CONTINUOUS
SHEET THE SIZE OF THE ORIFICE PLATE. THE
SHEET SHALL BE PLACED BETWEEN THE ORIFICE
PLATE AND THE CONCRETE WALL, WITH THE WIDTH
OF THE OVERLAPPING BETWEEN THE PLATE AND
CONCRETE. OPENINGS SHALL BE CUT INTO THE
SHEET CORRESPONDING TO THE PLATE BOLT HOLES
AND THE CONCRETE WALL OPENING. CUTS WILL BE
MADE EITHER BY THE CONTRACTOR IN THE FIELD
OR BY THE MANUFACTURER.

GASKET WILL MEET ABOVE STATEMENT OR BE AN EQUIVALENT GASKET APPROVED BY EPC. NOTE THAT CAULK IS NOT AN APPROVED EQUIVALENT AND WILL NOT BE ACCEPTED BY EPC

Diagram illustrating the cross-section of a wellhead assembly. The assembly includes a well screen (18" diameter), a restrictor plate (12" diameter), and a continuous neoprene gasket. The flow direction is indicated by an arrow labeled "FLOW". Labels include: "RESTRICTOR PLATE PER DETAIL", "18\"", "12\"", "18\"", "CONTINUOUS NEOPRENE GASKET. SEE ABOVE NOTE.", "WELL SCREEN PER DETAIL", and "FLOW".

OUTLET STRUCTURE SECTION E
NOT TO SCALE

PCD FILE NO. PPR2615

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STORM DETAILS 2

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWN: CW
DATE: 11/11/2024
CHECKED:
DATE:
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DATE:
JOB NO: CO1517

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BRIAN CAMPBELL
COLORADO P.E. #40196

2/8/2024 Internal Review #11

Jul 24, 2028 - 1:00pm by rromaster 1A:ENGINEERING\03\CO15170 - Honor Charter School - Payson, CO\BIO\Construction Drawings\CO1517_C5.dwg

THE FOLLOWING STANDARD EL PASO COUNTY GRADING AND EROSION CONTROL PLAN NOTES SHALL BE INCLUDED, AS APPLICABLE:

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 FROM 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. MANAGEMENT OF THE SWMP DURING CONSTRUCTION IS THE RESPONSIBILITY OF THE DESIGNATED QUALIFIED STORMWATER MANAGER OR CERTIFIED EROSION CONTROL INSPECTOR. THE SWMP 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 COULD CONTRIBUTE POLLUTANTS TO STORMWATER. CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, AND DISTURBED LAND AREAS SHALL BE INSTALLED 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 ARE 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.

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. 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 PLANT 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 DESIGNED IN THE APPROVED PLANS, ANY PROPOSED CHANGES THAT EFFECT THE DESIGN OR FUNCTION OF PERMANENT STORMWATER MANAGEMENT STRUCTURES MUST BE APPROVED BY THE ECM ADMINISTRATOR PRIOR TO IMPLEMENTATION.

EARTH DISTURBANCES 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 SHOWN TO BE INFEASIBLE AND SPECIFICALLY REQUESTED AND APPROVED.

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 MEASURES SHALL ALSO BE PROTECTED FROM SEDIMENTATION DURING CONSTRUCTION UNTIL FINAL STABILIZATION IS ACHIEVED. IF COMPACTION PREVENTION IS NOT FEASIBLE DUE TO SITE CONSTRAINTS, ALL AREAS DESIGNATED FOR INFILTRATION AND VEGETATION CONTROL MEASURES MUST BE LOOSENEED PRIOR TO INSTALLATION OF THE CONTROL MEASURE(S).

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 ENTER STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES. CONCRETE WASHOUTS SHALL NOT BE LOCATED IN AN AREA WHERE SHALLOW GROUNDWATER MAY BE PRESENT, OR WITHIN 50 FEET OF A SURFACE WATER BODY, CREEK OR STREAM.

DURING DEWATERING OPERATIONS OF UNCONTAMINATED GROUND WATER MAY BE DISCHARGED ON SITE, BUT SHALL NOT LEAVE THE SITE IN THE FORM OF SURFACE RUNOFF UNLESS AN APPROVED STATE DEWATERING PERMIT IS IN PLACE.

EROSION CONTROL BLANKETING OR OTHER PROTECTIVE COVERING SHALL BE USED ON SLOPES STEEPER THAN 3:1.

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.

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. CONTROL MEASURES MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.

TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFF-SITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.

THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, SOIL, AND SAND THAT MAY ACCUMULATE IN ROADS, STORM DRAINS AND OTHER DRAINAGE CONVEYANCE SYSTEMS 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.

NO CHEMICAL(S) HAVING THE POTENTIAL TO BE RELEASED IN STORMWATER ARE TO BE STORED OR USED ONSITE UNLESS PERMISSION FOR THE USE OF SUCH CHEMICAL(S) IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING APPROVAL FOR THE USE OF SUCH CHEMICAL(S), SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.

BULK STORAGE OF ALLOWED PETROLEUM PRODUCTS OR OTHER ALLOWED LIQUID CHEMICALS IN EXCESS OF 55 GALLONS SHALL REQUIRE ADEQUATE SECONDARY CONTAINMENT PROTECTION TO CONTAIN ALL SPILLS ONSITE AND TO PREVENT ANY SPILLED MATERIALS FROM ENTERING STATE WATERS, ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR OTHER FACILITIES.

NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE CURB AND GUTTER OR DITCH EXCEPT WITH APPROVED SEDIMENT CONTROL MEASURES.

OWNER/DEVELOPER AND THEIR AGENTS SHALL COMPLY WITH THE 'COLORADO WATER QUALITY CONTROL ACT'(TITLE 25, ARTICLE 8, CRS), AND THE 'CLEAN WATER ACT'(33 USC 1344), IN ADDITION TO THE REQUIREMENTS OF THE LAND DEVELOPMENT CODE, DOM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (1041, NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND OTHER LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, LOCAL, OR COUNTY AGENCIES, THE MOST RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.

ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE ONLY AT APPROVED CONSTRUCTION ACCESS POINTS. PRIOR TO CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.

A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND SHALL BE UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.

THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY _____ 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 ONE (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 WQCD -PERMITS 4300 CHERRY CREEK DRIVE SOUTH DENVER, CO 80246-1530 ATTN: PERMITS UNIT

WOODMAN HILLS METRO DISTRICT GENERAL NOTES:

GENERAL

1. ALL UTILITY CONSTRUCTION TO BE CONDUCTED IN CONFORMANCE WITH THE CURRENT WOODMEN HILLS METROPOLITAN DISTRICT (WHMD, THE DISTRICT) SPECIFICATIONS.

2. ALL PLANS ON THE JOB SITE SHALL BE SIGNED BY THE DISTRICT AND THE DISTRICT'S ENGINEER. ANY REVISION TO THE PLANS SHALL BE SO NOTED WITH THE OLD DRAWING MARKED 'NOT VALID.'

3. ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. ALL ELEVATIONS ARE CENTERLINE UNLESS OTHERWISE NOTED.

4. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE DISTRICT. THE DISTRICT RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.

5. ALL OVER-LOT GRADING MUST BE COMPLETED TO WITHIN ONE (1) FOOT OF FINAL GRADE PRIOR TO INSTALLATION OF WATER AND WASTEWATER INFRASTRUCTURE.

6. ALL WATER AND SEWER SERVICE LOCATIONS SHALL BE CLEARLY MARKED ON EITHER THE CURB HEAD OR THE FACE OF THE CURB, WITH AN 'S'FOR SEWER AND A 'W'FOR WATER.

7. DUCTILE IRON PIPES, INCLUDING FITTINGS, VALVES, AND FIRE HYDRANTS, SHALL BE WRAPPED WITH POLYETHYLENE TUBING, DOUBLE BONDED AT EACH JOINT, AND ELECTRICALLY ISOLATED. BONDING AND ANODE CONNECTIONS SHALL BE THOROUGHLY COATED WITH BITUMINOUS COATINGS.

8. ALL DUCTILE IRON PIPE LESS THAN TWELVE INCHES (12") AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 400 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING. ALL DUCTILE IRON PIPE TWELVE INCHES (12") AND GREATER AND FITTINGS SHALL HAVE CATHODIC PROTECTION USING TWO (2) NO. 6 WIRES WITH 17 LB. MAGNESIUM ANODES EVERY 300 FEET AND 9 LB. MAGNESIUM ANODES AT EACH FITTING.

9. ALL PIPE MATERIAL, BACKFILL, AND INSTALLATION SHALL CONFORM TO THE APPLICABLE SPECIFICATIONS OF THE DISTRICT, COLORADO DEPARTMENT OF TRANSPORTATION, EL PASO COUNTY DEPARTMENT OF TRANSPORTATION, COLORADO SPRINGS UTILITIES, AND THE GEOTECHNICAL ENGINEER.

10. COMPACTION TESTS SHALL BE 95% STANDARD PROCTOR AS DETERMINED BY ASTM D698, UNLESS OTHERWISE APPROVED BY THE DISTRICT OR HIGHER STANDARD AS IMPOSED BY ANOTHER AGENCIES HAVING RIGHT-OF-WAY JURISDICTION. THIS SHALL INCLUDE ALL VALVES, FIRE HYDRANT RUNS, WATER & SEWER SERVICE LINES, AND MANHOLES. ALL REPORTS SHALL BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.

11. THE LOCATION OF ALL EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ONLY. THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED PRIOR TO COMMENCING CONSTRUCTION ACTIVITIES. THE DISTRICT SHALL BE NOTIFIED OF ANY DEVIATIONS TO THE LINE AND/OR GRADE AS DEPICTED ON THE PLANS. CONTRACTOR SHALL SUBMIT TO THE DISTRICT AND THE ENGINEER OF RECORD A REPORT OF THE FIELD-VERIFIED INFORMATION PRIOR TO THE START OF CONSTRUCTION.

12. ALL BENDS SHALL BE FIELD STAKED PRIOR TO THE START OF CONSTRUCTION.

13. BENDS, DEFLECTION, AND CUT PIPE LENGTHS SHALL BE USED TO HOLD HORIZONTAL ALIGNMENT OF SEWER AND WATER LINES TO NO MORE THAN 0.5' FROM THE DESIGNED ALIGNMENT. CONSTRUCTION STAKES TO BE AT TWENTY-FIVE FEET (25') INTERVALS ALONG CURVES TO ENSURE LOCATION OF PIPELINE CONSTRUCTION.

14. AT ALL LOCATIONS WHERE CAP AND STUB IS NOTED ON DRAWINGS, PROVIDE A PLUG AT THE END OF THE PIPE JOINT NEAREST THE SPECIFIED STATION. PROVIDE A REVERSE ANCHOR AT ALL WATER LINE PLUGS.

15. ALL UNUSED, SALVAGED WATER UTILITY MATERIAL SHALL BE RETURNED TO THE METROPOLITAN DISTRICT AS REQUESTED.

16. AT THE CONTRACTOR'S EXPENSE, ALL UTILITY MAINS SHALL BE SUPPORTED AND PROTECTED SUCH THAT THEY SHALL FUNCTION CONTINUOUSLY DURING CONSTRUCTION OPERATIONS. SHOULD A UTILITY MAIN FAIL AS A RESULT OF THE CONTRACTOR'S OPERATION, IT SHALL BE REPLACED IMMEDIATELY BY THE CONTRACTOR OR BY THE DISTRICT AT FULL COST OF LABOR AND MATERIALS TO THE CONTRACTOR/DEVELOPER.

17. PUMPING OR BYPASS OPERATIONS SHALL BE REVIEWED AND APPROVED BY BOTH THE DISTRICT AND THE DISTRICT ENGINEER PRIOR TO EXECUTION.

18. THE CONTRACTOR SHALL REPLACE OR REPAIR DAMAGE TO ALL SURFACE IMPROVEMENTS, INCLUDING BUT NOT LIMITED TO FENCES, LANDSCAPING, CURB AND GUTTER, AND/OR ASPHALT THAT MAY BE CAUSED DURING CONSTRUCTION.

19. ALL CONTRACTORS WORKING ON OR NEAR A WATER OR SEWER FACILITY (TO INCLUDE SERVICE LINES) SHALL HAVE LIABILITY INSURANCE NAMING THE DISTRICT AS AN ADDITIONAL INSURED AND SHALL PROVIDE A CURRENT COPY OF WORKERS COMPENSATION INSURANCE ON FILE WITH THE DISTRICT. NO WORK CAN PROCEED WITHOUT CURRENT CERTIFICATES ON FILE AT THE DISTRICTS' OFFICE.

20. THE CONTRACTOR SHALL NOTIFY THE DISTRICT AND ALL AFFECTED UTILITY COMPANIES ADJACENT TO THE PROPOSED UTILITY CONSTRUCTION A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A WEEKLY CONSTRUCTION MEETING SHALL BE REQUIRED WITH THE CONTRACTOR, DISTRICT ENGINEER AND ALL OTHER PARTIES AS DEEMED NECESSARY BY THE DISTRICT.

21. COMMENCEMENT OF CONSTRUCTION OF WATER/SEWER SYSTEMS WITHIN METROPOLITAN DISTRICT:

a) PRIOR TO THE START OF CONSTRUCTION, A PRECONSTRUCTION MEETING IS REQUIRED A MINIMUM OF 48 HOURS IN ADVANCE OF COMMENCEMENT OF WORK. A REPRESENTATIVE OF THE OWNER OR DEVELOPER, A REPRESENTATIVE OF THE CONTRACTOR, AND DESIGN ENGINEER ARE REQUIRED TO ATTEND. CONTACT THE DISTRICT TO SCHEDULE THE PRECONSTRUCTION MEETING. NO PRECONSTRUCTION MEETING CAN BE SCHEDULED BEFORE FOUR (4) SIGNED/APPROVED PLAN SETS ARE RECEIVED BY THE DISTRICT.

b) THE CONTRACTOR IS REQUIRED TO NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 2 WEEKS PRIOR TO THE START OF CONSTRUCTION. THE CONTRACTOR SHALL ALSO NOTIFY AFFECTED UTILITY COMPANIES AT LEAST 48 HOURS PRIOR TO THE START OF CONSTRUCTION ADJACENT TO THE KNOWN UTILITY LINES.

22. TESTING OF FACILITIES:

a) THE CONTRACTOR SHALL NOTIFY THE DISTRICT A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF ANY TESTING.

b) ALL SECTIONS OF WATER LINE ARE TO MEET THE FOLLOWING PRESSURE TESTING REQUIREMENTS

- TEST 100% OF ALL LINES.
- MUST PASS PRESSURE TEST TO 200 PSI FOR TWO HOURS (UNLESS OTHERWISE APPROVED ON THE PLANS).

c) ALL SANITARY SEWER FACILITIES ARE TO MEET THE FOLLOWING TESTING REQUIREMENTS:

- ALL LINES SHALL BE JET CLEANED PRIOR TO VACUUM OR PRESSURE TESTING.
- ALL MANHOLES SHALL BE VACUUM TESTED WITH DISTRICT STAFF PRESENT PRIOR TO CCTV INSPECTION.
- SEWER MAINS TO BE PRESSURE TESTED PRIOR TO CCTV INSPECTION.
- ALL LINES SHALL BE CCTV INSPECTED AND VIDEO SHALL TO BE SUBMITTED TO THE DISTRICT FOR REVIEW AND APPROVAL.

23. PRELIMINARY ACCEPTANCE SHALL BE DEFINED AS THE POINT IN TIME THAT THE DISTRICT ACCEPTS THE FACILITY FOR USE. ALL SURFACE IMPROVEMENTS AND RESTORATION SHALL BE COMPLETED WITHIN 30 DAYS OF COMMENCEMENT. SHOULD THE CONTRACTOR FAIL TO COMPLETE ALL SURFACE IMPROVEMENTS AND RESTORATION WITHIN 30 DAYS OF COMMENCEMENT OF SERVICE, THE DISTRICT, AT THEIR DISCRETION, MAY ELECT TO COMPLETE THE IMPROVEMENTS AT THE CONTRACTOR'S COST.

24. FINAL ACCEPTANCE BY THE DISTRICT OF ANY LINE OR SYSTEM SHALL NOT OCCUR UNTIL COMPLETION OF FINAL ASPHALT LAYERS AND/OR FINAL COMPLETION AND/OR RESTORATION OF ALL SURFACE IMPROVEMENTS. THE WARRANTY PERIOD FOR ALL FACILITIES PRIOR TO FINAL ACCEPTANCE SHALL BE 24 MONTHS COMMENCING AFTER PRELIMINARY ACCEPTANCE.

25. ACCEPTANCE

a) THE DISTRICT MAY GIVE PRELIMINARY ACCEPTANCE ONCE ALL OF THE TESTS ON ALL THE LINES HAVE BEEN COMPLETED AND A WALK-THROUGH HAS OCCURRED.

b) A SECOND ACCEPTANCE MAY OCCUR ONCE THE FIRST LIFT OF ASPHALT GOES DOWN AND A SECOND WALK-THROUGH OF THE SYSTEM OCCURS. IF ALL FACILITIES ARE CLEAN AND ACCESSIBLE, A FINAL ACCEPTANCE MAY OCCUR (THE DISTRICT MAY REQUIRE CLEANING AND RE-VIDEO OF THE SYSTEM, DEPENDING ON THE SEVERITY OF THE CONTAMINATION).

26. ALL WATER AND SEWER MAINS, INCLUDING SERVICE LINES, SHALL HAVE "AS-BUILT" DRAWINGS PREPARED AND APPROVED PRIOR TO PRELIMINARY ACCEPTANCE BY THE DISTRICT.

27. ALL COMMERCIAL/BUSINESS DEVELOPMENTS SHALL HAVE AN EIGHT INCH (MIN.) WATER MAIN LOOPED THROUGH THE PROPOSED PROPERTY WITH GATE VALVES LOCATED WHERE THE MAIN ENTERS THE PROPERTY LINE. AN EIGHT-INCH SEWER MAIN SHALL BE INSTALLED FOR SERVICE TO COMMERCIAL/BUSINESS DEVELOPMENTS, AND A MANHOLE SHALL BE LOCATED WHERE THE MAIN ENTERS THE PROPERTY. THE END OF THE MAINS SHALL BE MARKED WITH THE APPROPRIATE COLORED CARSONITE MARKER ALONG WITH TRACER WIRE.

28. AFTER REVIEW AND APPROVAL OF PLANS FOR THE EXTENSION OF LINES, FACILITIES, AND/OR SERVICES, CONSTRUCTION MUST HAVE COMMENCED WITHIN 18 MONTHS FOR RESIDENTIAL SUBDIVISIONS AND 12 MONTHS FOR ANY COMMERCIAL INSTALLATIONS.

29. INSPECTION FEES: CALL THE DISTRICT (719-495-2500) FOR FEE SCHEDULE.

WATER SYSTEM INSTALLATION NOTES

30. ALL WATER AND FORCE MAIN PIPE SHALL BE AWWA C900 PVC, OR APPROVED EQUAL, PRESSURE CLASS 200. ALL WATER AND FORCE MAIN FITTINGS SHALL HAVE MECHANICAL RESTRAINTS AND THRUST BLOCKS. ALL WATER AND FORCE MAIN PIPE SHALL HAVE A MINIMUM COVER DEPTH OF FIVE-AND-ONE-HALF (5.5) FEET.

31. ALL WATER VALVES ASSOCIATED WITH THE POTABLE WATER SYSTEM SHALL BE OPEN CLOCKWISE. ALL VALVES INSTALLED IN LANDSCAPED AREAS AND/OR NOT WITHIN PAVED STREETS SHALL BE MARKED WITH CARSONITE MARKERS. ALL VALVES ASSOCIATED WITH THE RAW WATER SYSTEM SHALL BE OPEN COUNTERCLOCKWISE AND MARKED WITH CARSONITE MARKERS AS APPLICABLE.

32. THE DEVELOPER OR HIS ENGINEER SHALL LOCATE ALL FIRE HYDRANTS AND SERVICE STUB-OUTS FOR FUTURE DEVELOPMENT. ANY REQUIRED REALIGNMENT, HORIZONTAL OR VERTICAL, SHALL BE AT THE EXPENSE OF THE DEVELOPER. FIRE HYDRANT LOCATION SHALL BE REVIEWED AND APPROVED BY THE APPLICABLE FIRE AUTHORITY.

33. FIRE HYDRANTS SHALL BE OPEN RIGHT WITH 7/8"X 7/8" SQUARE TAPERED ALONG WITH SERVICE CAPS. LUBRICATION TYPE: GREASE. ACCEPTABLE BRAND IS KENNEDY GUARDIAN (K81D, K81A, AND K81AM). EACH FIRE HYDRANT LOCATION SHALL ALSO BE USED AS TEST STATION.

34. ALL MAIN LINES (PVC & DUCTILE IRON) SHALL BE INSTALLED WITH COATED #12 TRACER WIRE WITH TEST STATIONS AT INTERVALS NO GREATER THAN FIVE HUNDRED FEET (500) (VALVE BOXES CAN BE USED AT INTERSECTIONS AND SERVICE STUBS).

35. CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER LINE WITHOUT SHUTDOWN, OR ELSE NOTIFY THE DISTRICT OF ANY SERVICE SHUTDOWNS NECESSARY TO CONNECT TO EXISTING LINES.

36. IRRIGATION SERVICES SHALL HAVE A STOP-AND-WASTE CURB STOP VALVE INSTALLED ALONG WITH TRACER WIRE EXTENDING BACK TO THE MAIN LINE.

37. COMMENCEMENT OF USE OF WATER LINES AND/OR SYSTEMS:

a) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL AFTER THE COMPLETION OF ALL PRESSURE TESTING, FLUSHING, BAC-TTESTING, AND COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.

b) NO WATER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.

c) ALL EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.

WASTEWATER SYSTEM INSTALLATION NOTES

38. SANITARY SEWER LENGTHS ARE MH CENTER -MH CENTER. ALL SANITARY SEWER PIPES SHALL BE SDR 35 PVC OR APPROVED EQUAL. SEWER LINES MAY NOT EXCEED 7% GRADE FOR ANY SIZE WITHOUT PRIOR APPROVAL OF THE DISTRICT. ALL NEWLY CONSTRUCTED RESIDENTIAL SANITARY SEWER TAPS SHALL USE PRE-MANUFACTURED, INLINE PVC PUSH-ON WYES. SINGLE SADDLE TAP ALLOWED ON EXISTING MAINS. MULTIPLE SADDLE TAPS ON EXISTING MAINS MUST BE APPROVED BY THE DISTRICT ON A CASE BY CASE BASIS

39. ALL SANITARY SEWER MANHOLES SHALL BE WRAPPED WITH RU116 - RUBR-NEK JOINT WRAP, OR APPROVED EQUAL, AND COATED.

40. ALL SEWER LINES MUST BE BEDDED WITH SQUEEGEE OR ¾" CRUSHED ROCK.

41. COMMENCEMENT OF USE OF SEWER LINES AND/OR SYSTEMS:

a) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL THE COMPLETION OF ALL JET CLEANING, PRESSURE TESTING, VACUUM TESTING, CCTV INSPECTION, AND COMPACTION TESTING, AND AS-BUILT DRAWINGS ARE SUBMITTED AND APPROVED BY THE DISTRICT.

b) NO SANITARY SEWER FACILITY SHALL BE PLACED IN SERVICE UNTIL ALL SERVICE LINES ARE COMPLETED AND THE FIRST LIFT OF ASPHALT IS COMPLETED OVER THE LINE. IN THE CASE WHERE NO ASPHALT IS TO BE PLACED OVER THE LINE, ANY REQUIRED SURFACE IMPROVEMENTS SHALL BE COMPLETED PRIOR TO USE OF THE FACILITY.

c) ALL NECESSARY EASEMENTS (PLATTED OR DEEDED) ARE DEDICATED, EXECUTED BY THE DISTRICT, AND RECORDED.

d) DOWNSTREAM PLUG CAN BE REMOVED ONCE THE FIRST LIFT OF ASPHALT IS DOWN AND THE ABOVE REQUIREMENTS ARE COATED.

PCD FILE NO. PPR2615

PREPARED UNDER THE SUPERVISION OF
TAIT & ASSOCIATES, INC.

DRAWING C.W.
DATE: 11/11/2024
CHECKED:
DATE:
DESIGNED:
DATE:
JOB NO. CO1517

21
OF
38

BRIAN CAMPBELL
COLORADO P.E. #40196

UTILITY NOTES

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.



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Jul 24, 2026 - 1:00pm by rromstetter A:\ENGINEERING\CO\CO15170 - Honor Charter School - Payson, CO\ENR\Construction Drawings\CO1517_PPR-UTIL.dwg



Know what's below
Call before you dig.

UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAY BE EXISTING UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

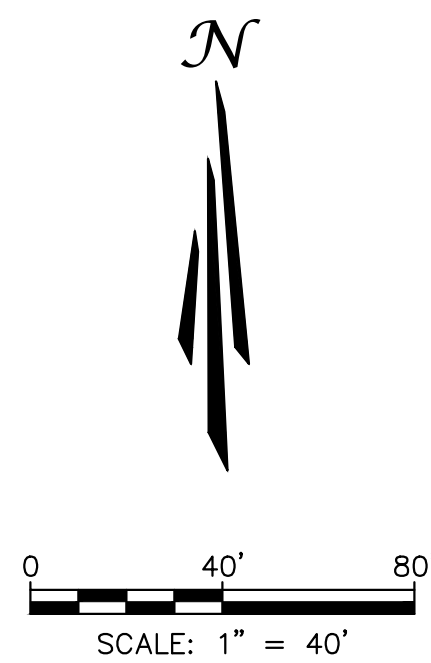
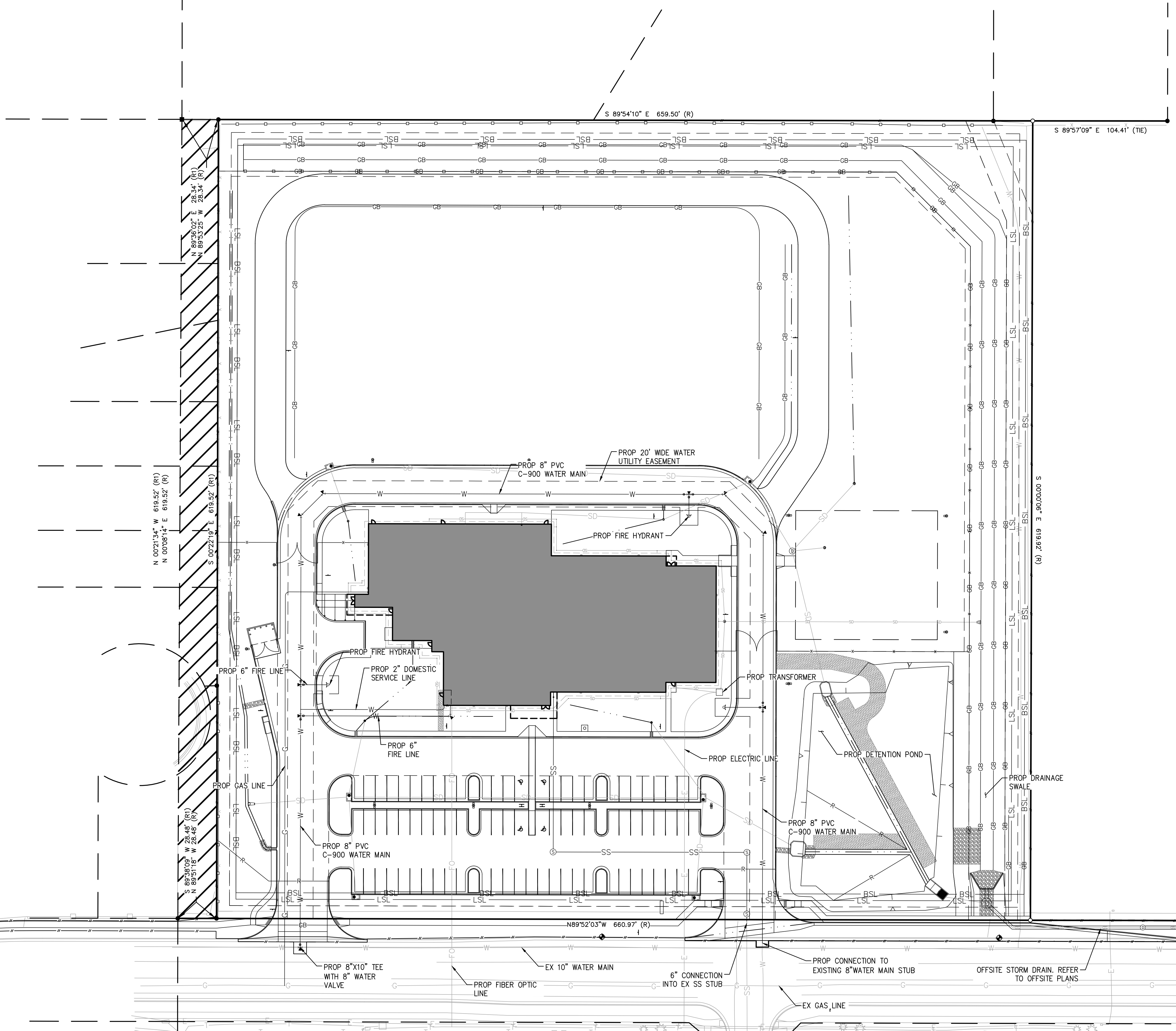
BASIS OF BEARINGS:

BEARINGS ARE BASED ON THE WESTERLY BOUNDARY OF THE SUBJECT PARCEL COINCIDENT WITH THE EASTERLY BOUNDARY OF THE BENT GRASS RESIDENTIAL FILING NO.2, MONUMENTED ON THE NORTH END WITH A NO.5 REBAR & 1-3/8" RED PLASTIC CAP MARKED "ALC PLS 38087", FOUND FLUSH WITH GRADE, AND ON THE SOUTH END WITH A NO. 4 REBAR & 1" ORANGE PLASTIC CAP MARKED "PLS 38141", RECOVERED 0.6 BELOW GRADE, AND IS ASSUMED TO BEAR N 00°08'14" E A MEASURED DISTANCE OF 619.52 FEET.

BENCHMARK:

ELEVATIONS ARE BASED ON THE PROJECT BENCHMARK IDENTIFIED AS JK0239 ELEVATION=6902.3'(NAVD88), PER DATA PUBLISHED BY THE NATIONAL GEODETIC SURVEY.

GENERAL UTILITY PLAN



SYMBOLS LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	ROW LINE
	BUILDING SETBACK LINE
	PROPOSED EASEMENT
	LIMIT OF DISTURBANCE
	EXISTING WATER LINE
	EXISTING SEWER LINE
	PROPOSED TELEPHONE SERVICE LINE
	PROPOSED ELECTRIC SERVICE LINE
	PROPOSED WATER SERVICE LINE
	PROPOSED SS SERVICE LINE
	PROPOSED STORM DRAIN
	PROPOSED RIDGELINE
	PROPOSED GRADE BREAK
	PROPOSED TOP OF POND
	PROPOSED BOTTOM OF POND
	PROPOSED SIGN
	PROPOSED SS CLEANOUT
	PROPOSED BACKFLOW PREVENTOR
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED STREET LIGHT
	EXISTING INLET
	PROPOSED INLET
	PROPOSED STORM INFRASTRUCTURE
	PROPOSED STORM MANHOLE
	PROPOSED TEE / THRUST BLOCK
	PROPOSED FLARED-END SECTION
	EXISTING SANITARY SEWER MANHOLE

NOTES:
REFER TO SHEET 15 FOR MORE INFORMATION REGARDING STORMWATER PLANS

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22
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BRIAN CAMPBELL
COLORADO P.E. #40196

GENERAL UTILITY PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.



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Loveland, CO 80537

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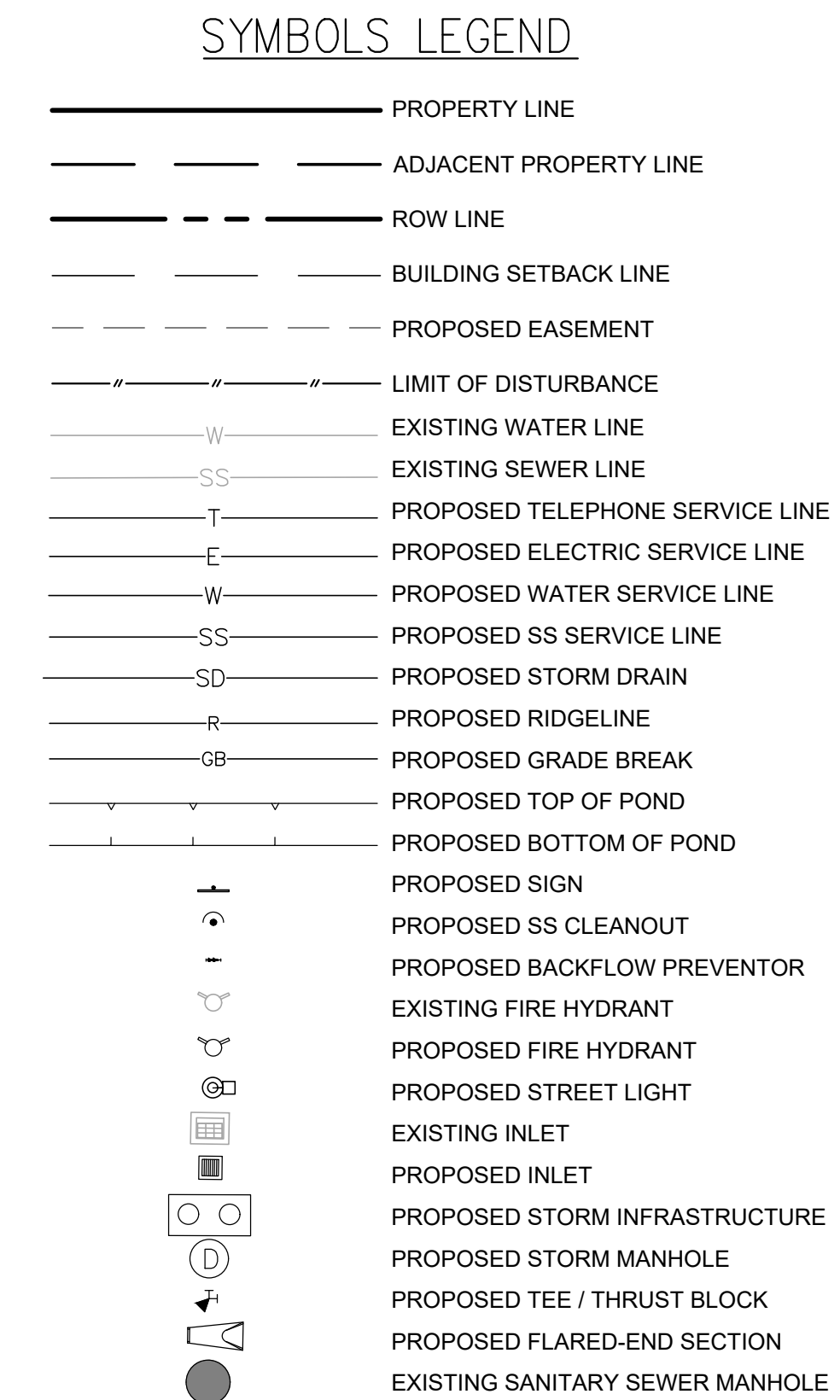
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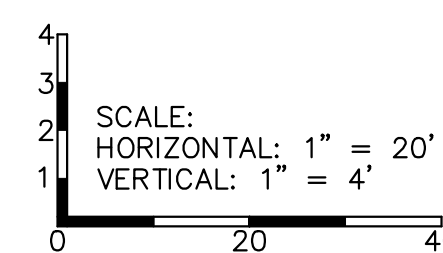
REVISIONS

BY DATE

2/6/2024 Internal Review #1



WATER PROFILE 2



◆BENCHMARK:
ELEVATIONS ARE BASED ON THE PROJECT BENCHMARK IDENTIFIED AS
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BRIAN CAMPBELL
COLORADO P.E. #40196

24
OF
38

2/6/2024 Internal Review #1

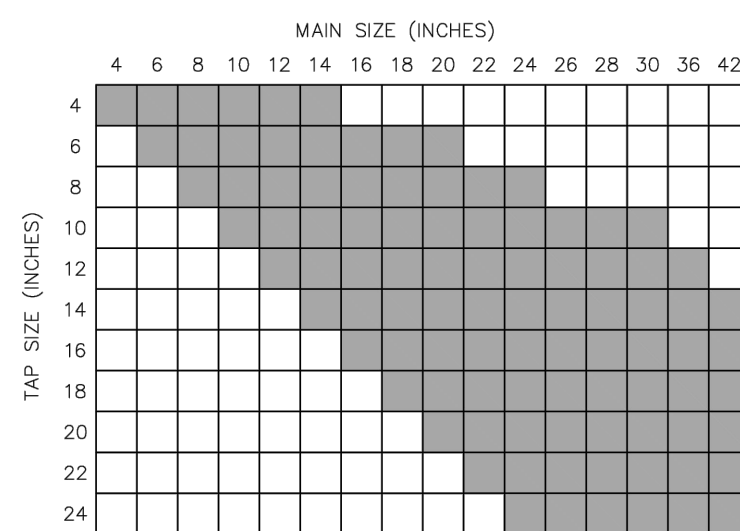


Know what's **below**
Call before you dig

WATER MAIN AND TAP SIZE COMBINATIONS WHICH REQUIRE A CONCRETE THRUST REACTION BLOCK BEHIND THE MAIN AT THE TAPPING SLEEVE OR SADDLE.

ALL WATER MAINS

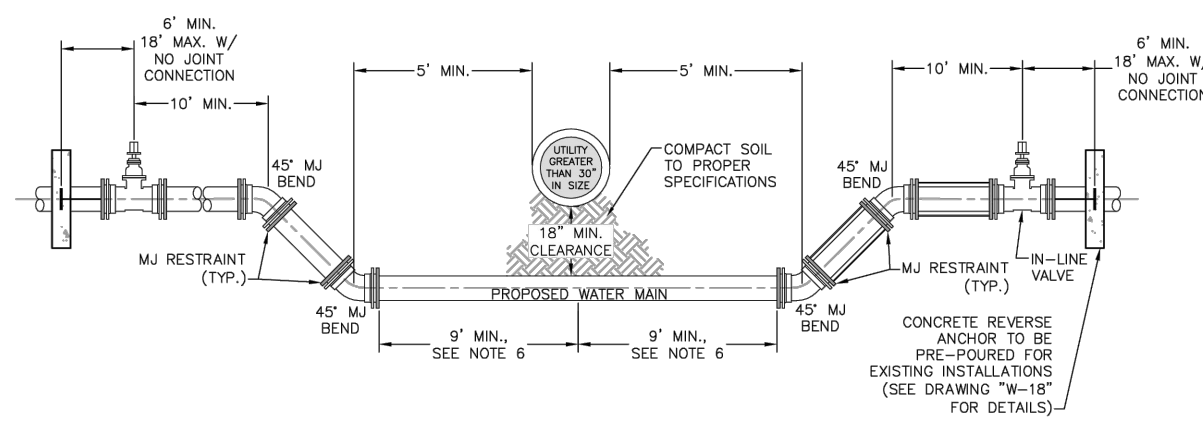
INDICATES CONCRETE THRUST BLOCK REQUIRED



ANY THRUST REACTION BLOCK REQUIREMENTS FOR WATER MAIN AND
TAP SIZE COMBINATIONS OTHER THAN THOSE SHOWN ABOVE WILL
REQUIRE SPECIAL DESIGN APPROVAL BY THE DISTRICT.

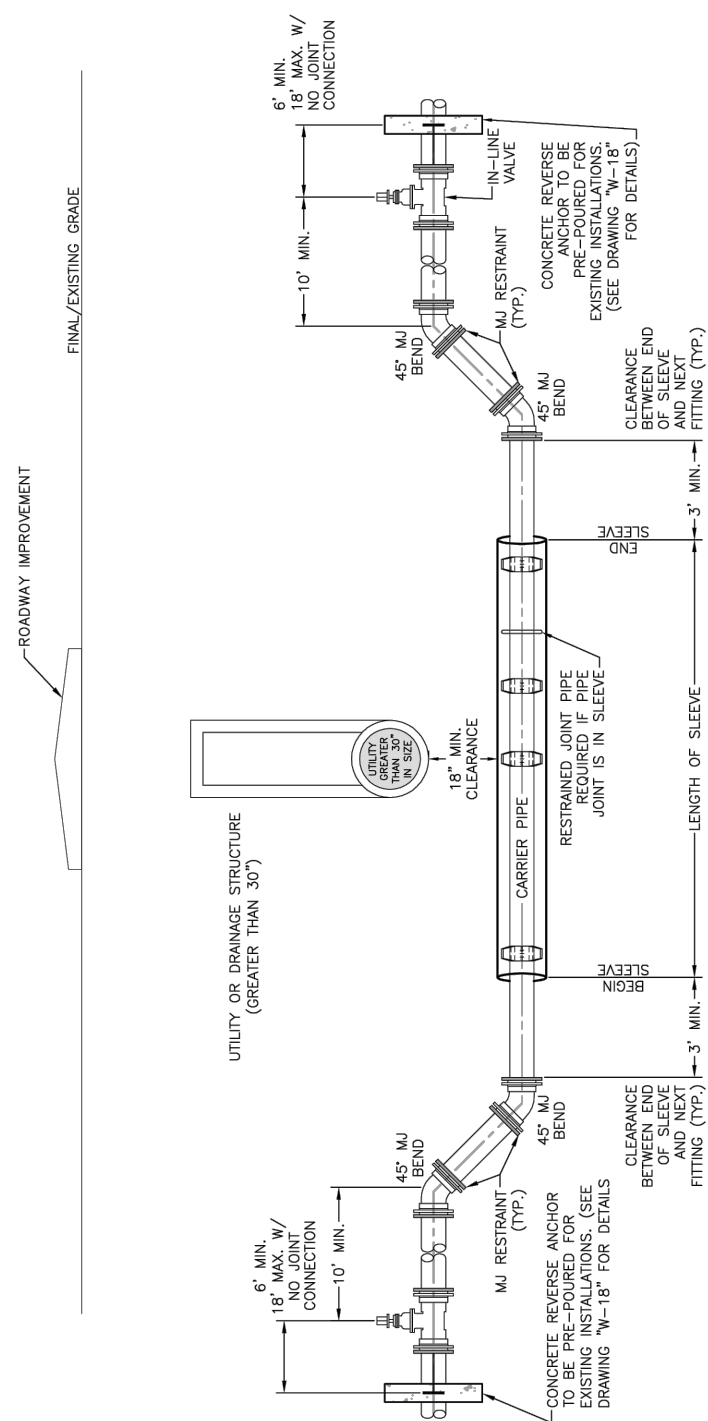
THRUST BLOCKS REQUIRED FOR TAPS

Drawn: GGM/SJC	Revised: DECEMBER 2021	WOODMEN HILLS METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	W-12
Date: MARCH 2011	Revised:			
Scatter: N.T.S.	Revised:			

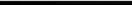


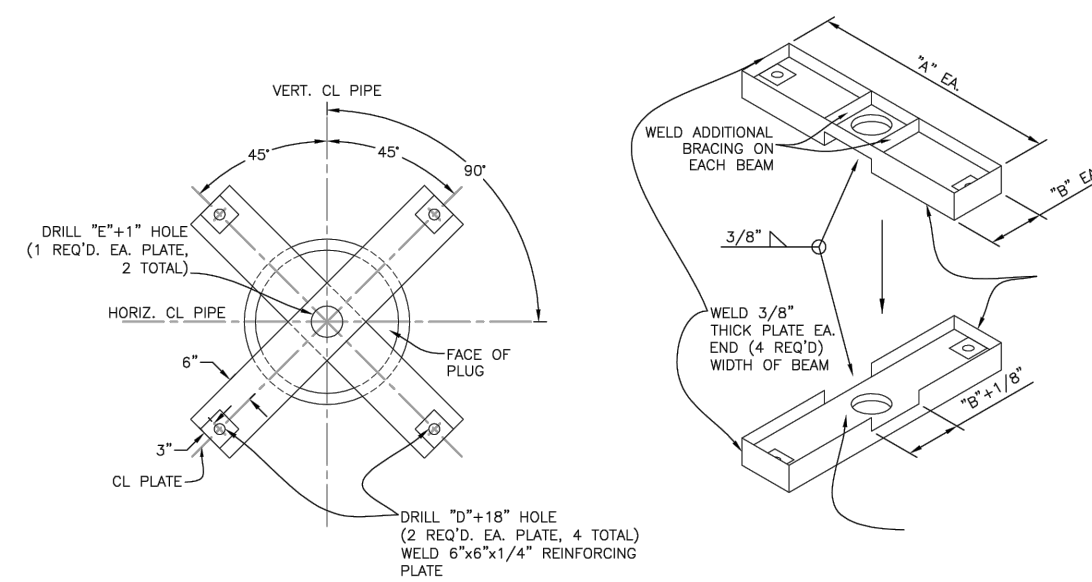
LOWERING DETAIL - UTILITY CROSSING 30" & SMALLER

Drawn: SKG	Revised: DECEMBER 2021	 WOODMEN HILLS METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	W-19
Date: MARCH 2011	Revised:			
Scale: N.T.S.	Revised:			

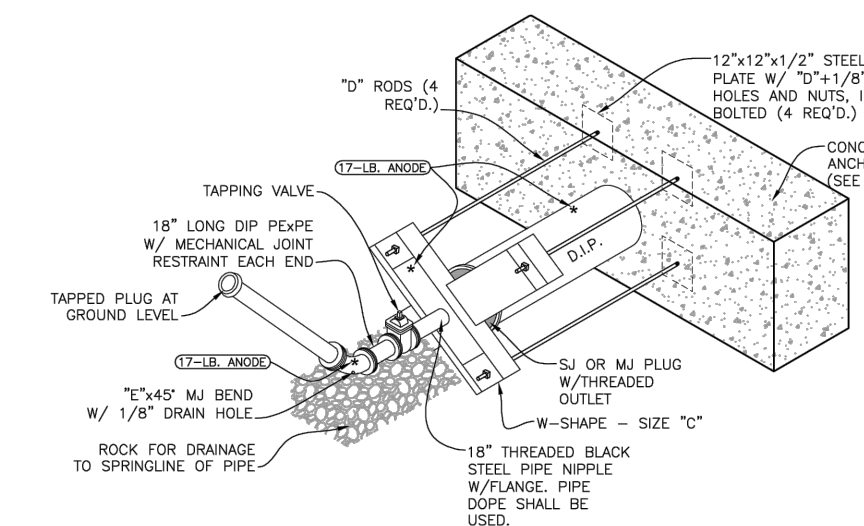


LOWERING DETAIL W/CASING UTILITY CROSSING GREATER THAN 30"

Drawn: SQG	Revised: DECEMBER 2021	 WOODMEN HILLS METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	W-20
Date: MARCH 2011	Revised:			
Scale: N.T.S.	Revised:			



REFER TO W-24 FOR ALL DIMENSIONS & SIZES
"E"=SIZE OF BLOW-OFF ASSEMBLY
(WHERE "E"=2", USE STANDARD BLOW-OFF ASSEMBLY, W-22)

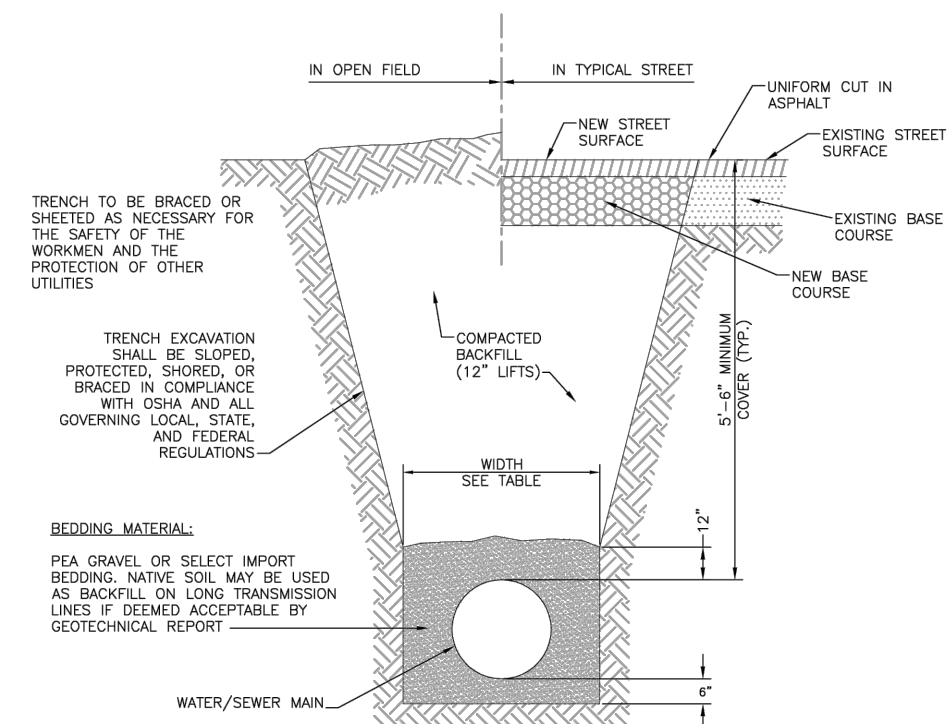


NOTES

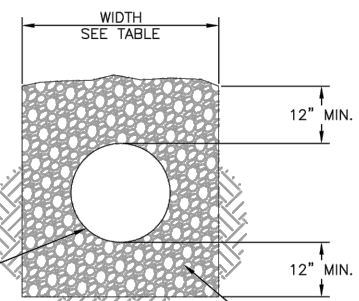
1. PIPE DOPE APPROVED FOR USE IN POTABLE WATER SYSTEMS MUST BE USED ON ALL THREADED JOINTS.
2. ENTIRE BLOW-OFF ASSEMBLY MUST BE FULLY SUPPORTED SO NO LOAD BEARS ON BLOW-OFF PIPING.
3. IF APPROPRIATE LOCATION FOR DISCHARGED WATER CANNOT BE REACHED BY ROLLING THE BEND, ADDITIONAL BENDS MAY BE REQUIRED.
4. COAT TIE-RODS, BEAMS, AND BLACK IRON PIPE WITH EPOXY POLYAMIDE COATING, 10 MILS THICK, MIN.

TEMP & PERMANENT BLOW-OFF ASSEMBLIES FOR MAINS 12"+

Drawn: GJM/SKD	Revised: DECEMBER 2021	WOODMEN HILLS METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	W-23
Date: MARCH 2011	Revised:			
Scale: N.T.S.	Revised:			



TYPICAL TRENCH SECTION
SCALE: N.T.S.

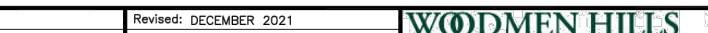


UNSTABLE TRENCH BEDDING DETAIL

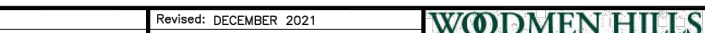
PIPE DIAMETER	MINIMUM WIDTH	MAXIMUM WIDTH
4"	2'-2"	3'-0"
6"	2'-2"	3'-0"
8"	2'-2"	3'-0"
10"	2'-4"	3'-0"
12"	2'-6"	3'-6"
18"	2'-10"	3'-9"
24"	3'-2"	4'-3"

TYPICAL TRENCH CROSS-SECTION

Drawn: GGM/SKJ	Revised: DECEMBER 2021	 WOODMEN HILLS METROPOLITAN DISTRICT	WATER & WASTEWATER SYSTEM STANDARD SPECIFICATIONS	W-14
Date: MARCH 2011	Revised:			
Scale: N.T.S.	Revised:			



WOODMEN HILLS WATER & WASTEWATER SYSTEM

METROPOLITAN DISTRICT STANDARD SPECIFICATIONS

WOODMEN HILLS WATER & WASTEWATER SYSTEM

11	Revised: _____		STANDARD SPECIFICATIONS
	Revised: _____		

WATER DETAILS (2)

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWN: CW
DATE: 11/11/2024
CHECKED:
DATE:
REVISION #:
DATE:
JOB NO: CO1517

26
OF
38

BRIAN CAMPBELL
COLORADO P.E. #40196

2/6/2024 Internal Review #1

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NOTE TO CONTRACTOR

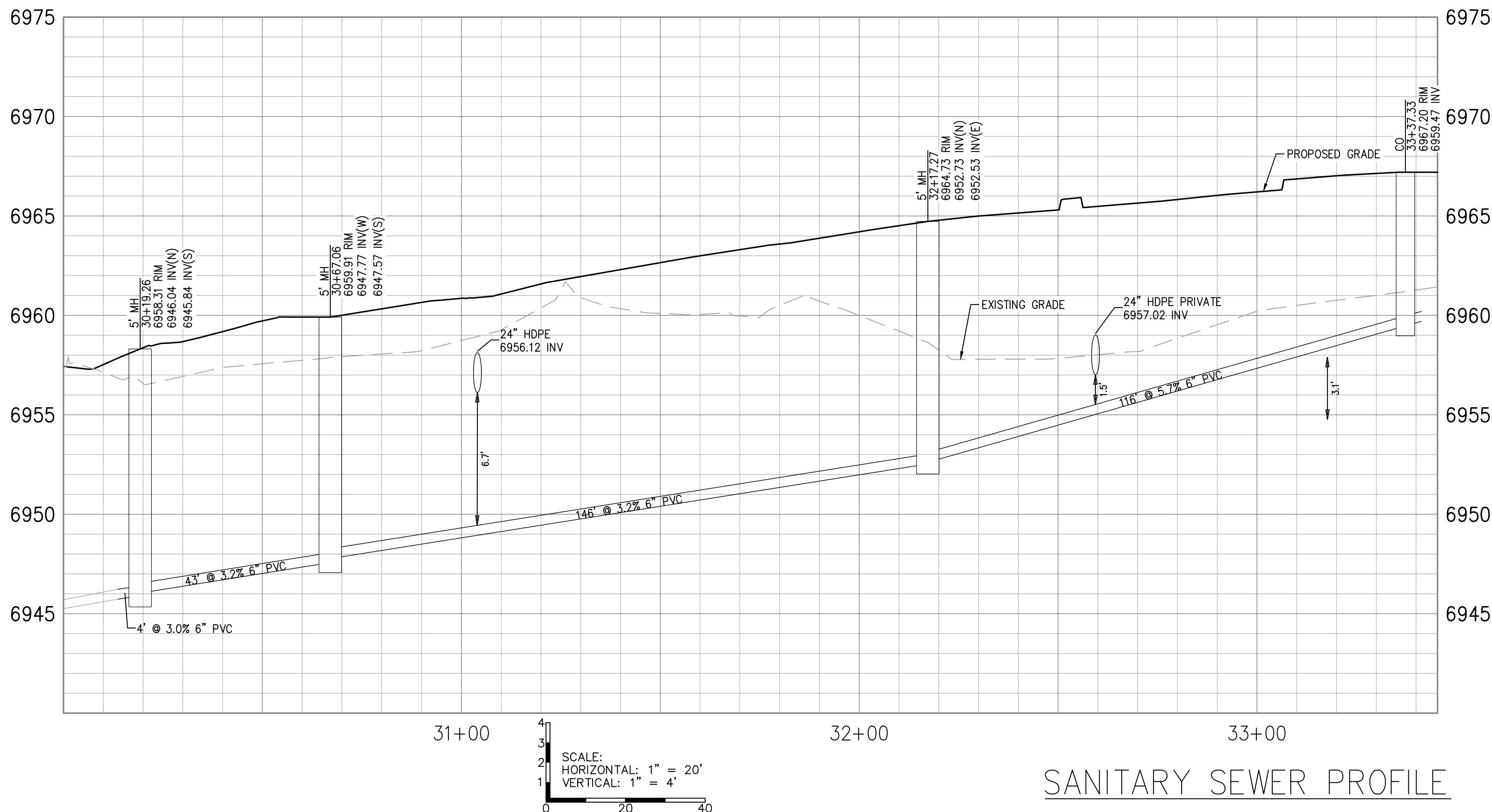
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BASIS OF BEARINGS:

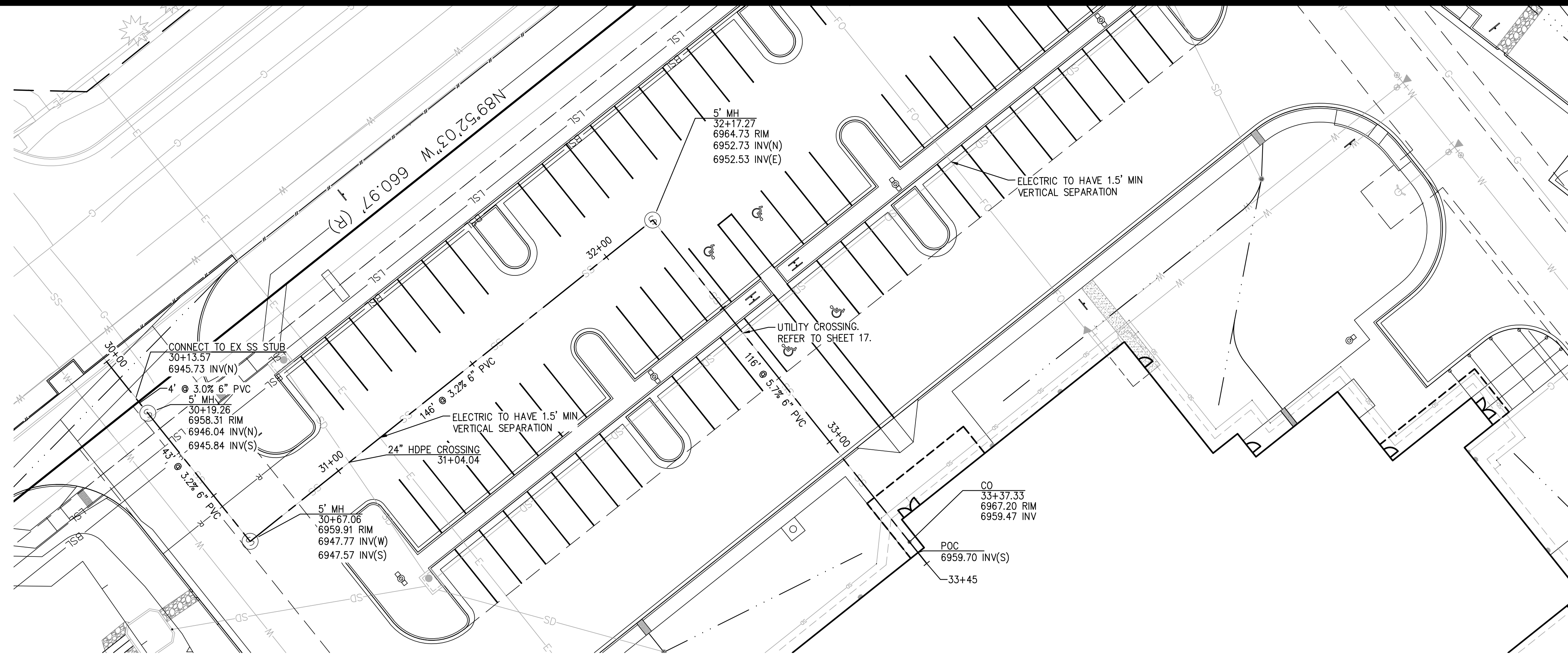
BEARINGS ARE BASED ON THE WESTERLY BOUNDARY OF THE SUBJECT PARCEL COINCIDENT WITH THE EASTERLY BOUNDARY OF THE BENT GRASS RESIDENTIAL FILING NO.2, MONUMENTED ON THE NORTH END WITH A NO.5 REBAR & 1-3/8" RED PLASTIC CAP MARKED "ALC PLS 38087", FOUND FLUSH WITH GRADE, AND ON THE SOUTH END WITH A NO. 4 REBAR & 1" ORANGE PLASTIC CAP MARKED "PLS 38141", RECOVERED 0.6 BELOW GRADE, AND IS ASSUMED TO BEAR N 00°08'14" E A MEASURED DISTANCE OF 619.52 FEET.

BENCHMARK:

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SANITARY SEWER PROFILE



SANITARY SEWER PLAN

SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY LINE
- ROW LINE
- BUILDING SETBACK LINE
- PROPOSED EASEMENT
- LIMIT OF DISTURBANCE
- EXISTING WATER LINE
- EXISTING SEWER LINE
- PROPOSED TELEPHONE SERVICE LINE
- PROPOSED ELECTRIC SERVICE LINE
- PROPOSED WATER SERVICE LINE
- PROPOSED SS SERVICE LINE
- PROPOSED STORM DRAIN
- PROPOSED RIDGELINE
- PROPOSED GRADE BREAK
- PROPOSED TOP OF POND
- PROPOSED BOTTOM OF POND
- PROPOSED SIGN
- PROPOSED SS CLEANOUT
- PROPOSED BACKFLOW PREVENTOR
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED STREET LIGHT
- EXISTING INLET
- PROPOSED INLET
- PROPOSED STORM INFRASTRUCTURE
- PROPOSED STORM MANHOLE
- PROPOSED TEE / THRUST BLOCK
- PROPOSED FLARED-END SECTION
- EXISTING SANITARY SEWER MANHOLE



SEWER P&P

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWING C/W
DATE: 11/11/2024
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JOB NO. C01517

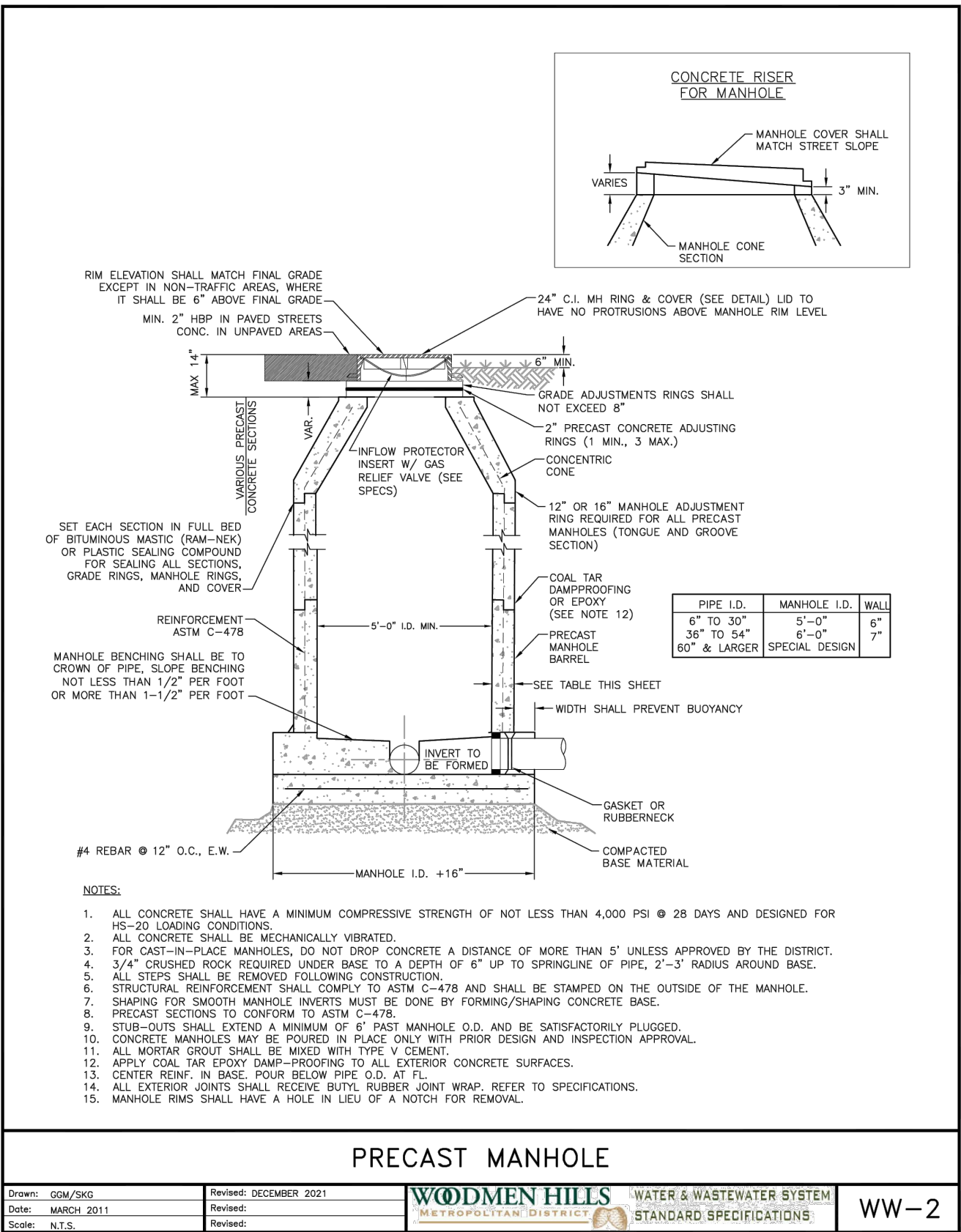
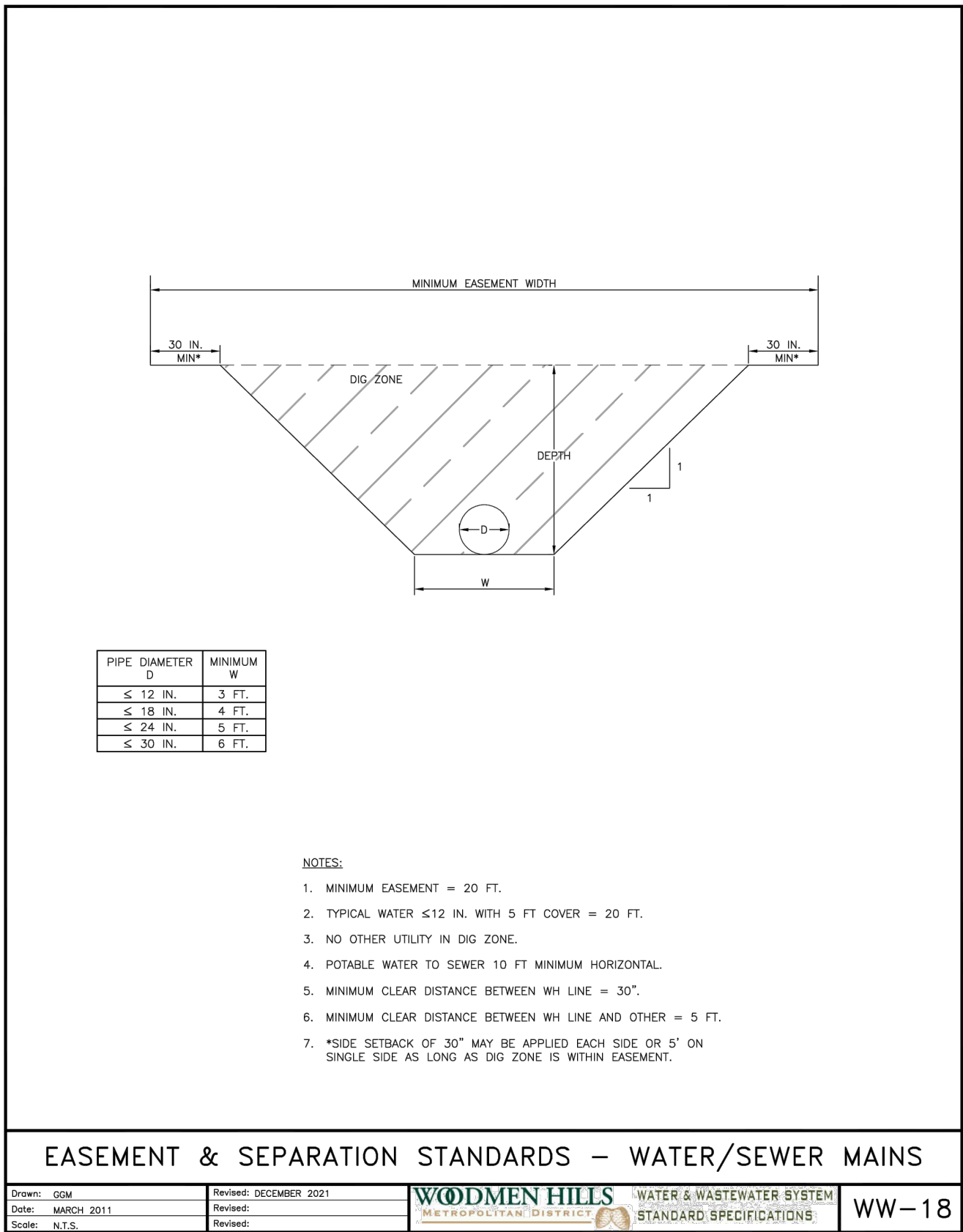
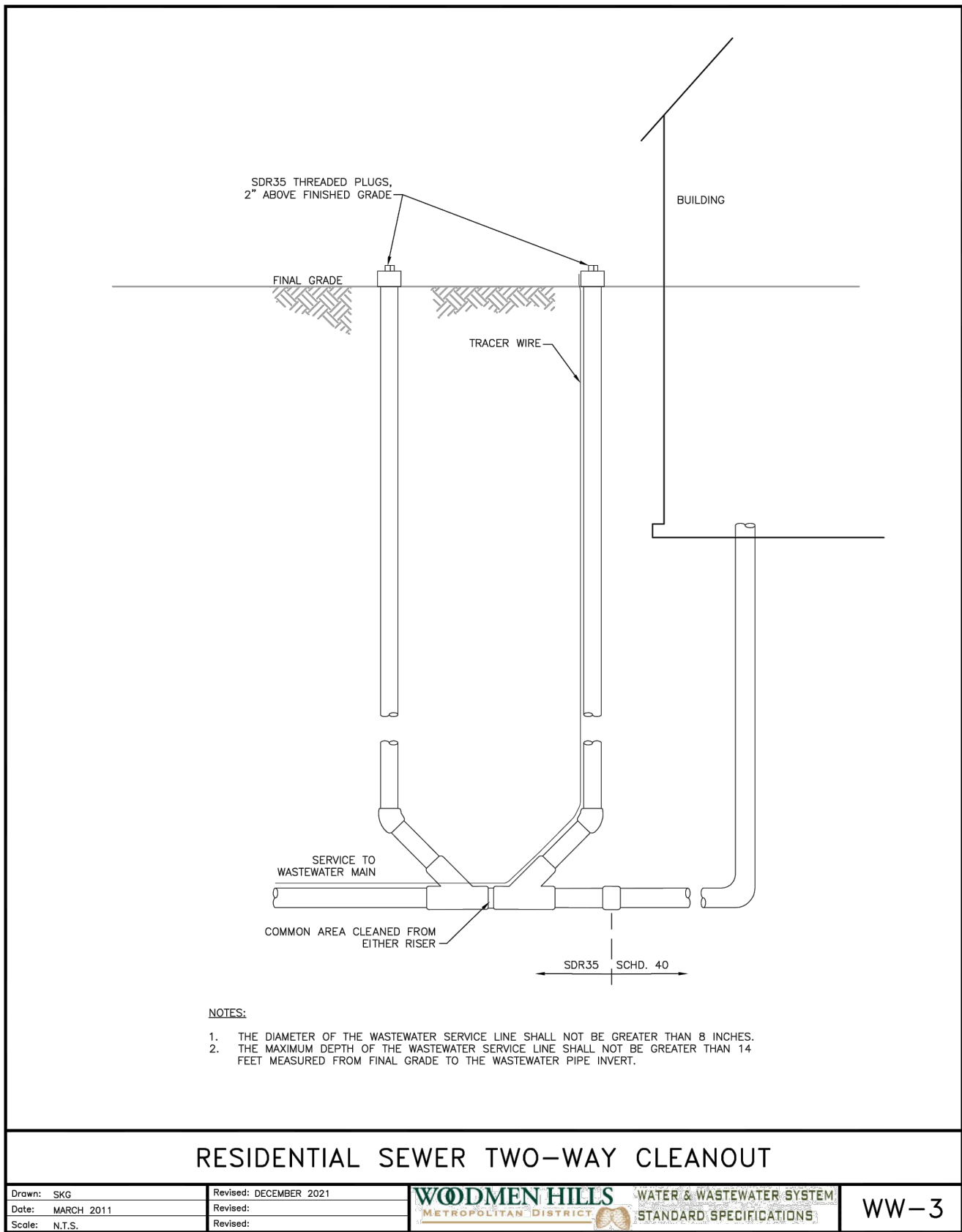
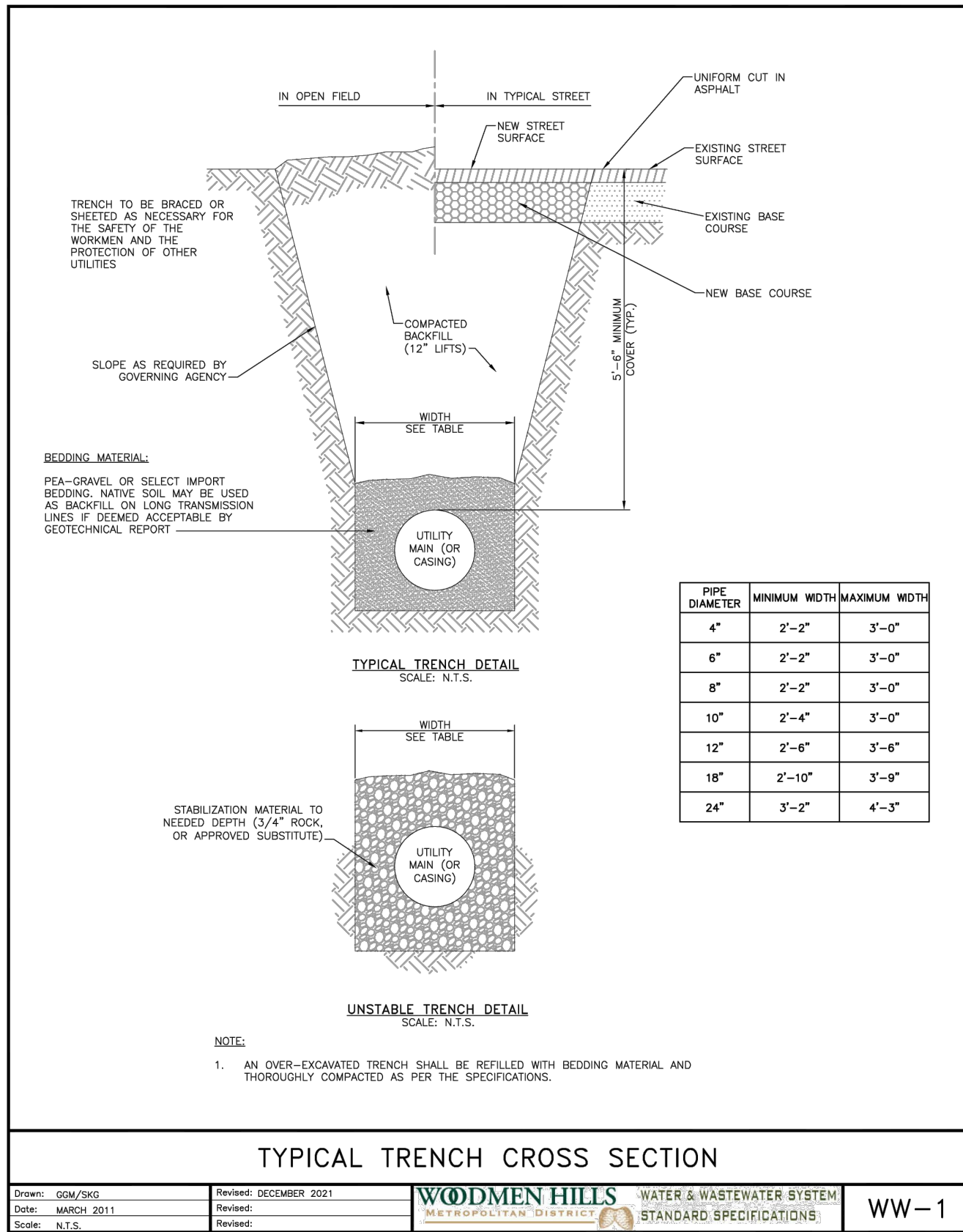
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COLORADO P.E. #40196

2/6/2024 Internal Review #1



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SEWER DETAILS
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HIGHMARK SCHOOL DEVELOPMENT
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NO.	DESCRIPTION	REVISIONS	BY	DATE

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BENCHMARK:

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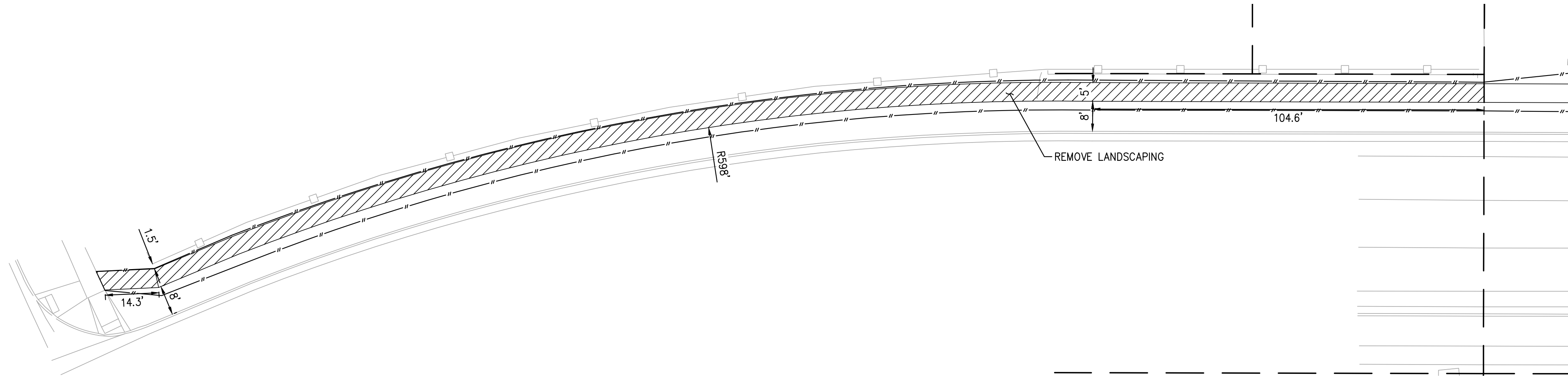
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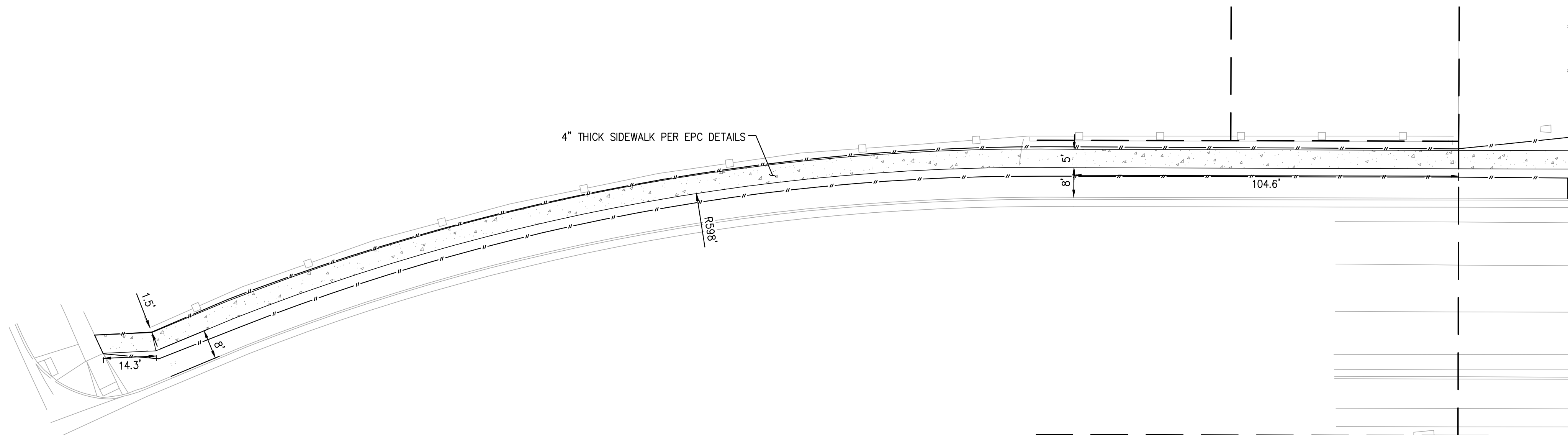
OFFSITE PED DEMO PLAN



SYMBOLS LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY/ ROW LINE
	BUILDING SETBACK LINE
	PROPOSED EASEMENT
	LIMIT OF DISTURBANCE
	PROPOSED SOLID SCREEN FENCE
	PROPOSED FENCE
	PROPOSED RIDGELINE
	PROPOSED GRADE BREAK
	PROPOSED TOP OF POND
	PROPOSED BOTTOM OF POND
	PROPOSED SWALE
	BUILDING SETBACK LINE
	LANDSCAPE SETBACK LINE
	PROPOSED FLAGPOLE
	PROPOSED SIGN
	PROPOSED SS CLEANOUT
	PROPOSED BACKFLOW PREVENTOR
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED STREET LIGHT
	EXISTING INLET
	PROPOSED INLET
	PROPOSED STORM INFRASTRUCTURE
	PROPOSED STORM MANHOLE
	PROPOSED TEE / THRUST BLOCK
	PROPOSED FLARED-END SECTION
	EXISTING SANITARY SEWER MANHOLE
	PROPOSED LIGHT DUTY ASPHALT
	PROPOSED LIGHT DUTY ASPHALT

OFFSITE PED HORIZONTAL CONTROL PLAN



OFFSITE SIDEWALK HORIZONTAL CONTROL PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
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DESCRIPTION

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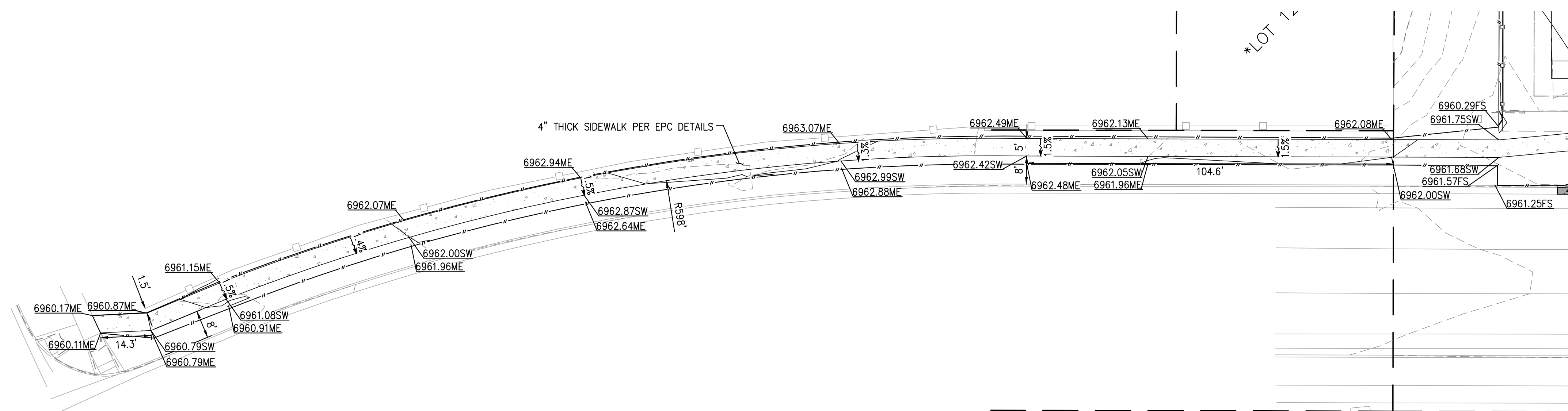
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30
OF
38

2/6/2024 Internal Review #1

OFFSITE PED GRADING PLAN



SYMBOLS LEGEND

—	PROPERTY LINE
—	ADJACENT PROPERTY/ ROW LINE
—	BUILDING SETBACK LINE
- - -	PROPOSED EASEMENT
- - -	LIMIT OF CONSTRUCTION/DISTURBANCE
— W —	EXISTING WATER LINE
— SS —	EXISTING SEWER LINE
— T —	PROPOSED TELEPHONE SERVICE LINE
— E —	PROPOSED ELECTRIC SERVICE LINE
— W —	PROPOSED WATER SERVICE LINE
— SS —	PROPOSED SS SERVICE LINE
— SD —	PROPOSED STORM DRAIN
— R —	PROPOSED RIDGELINE
— GB —	PROPOSED GRADE BREAK
—	PROPOSED CURB
—	PROPOSED TOP OF POND
—	PROPOSED BOTTOM OF POND
—	GRADING DETAIL BOUNDARY
—	PROPOSED SS CLEANOUT
—	PROPOSED BACKFLOW PREVENTOR
—	EXISTING FIRE HYDRANT
—	PROPOSED FIRE HYDRANT
—	PROPOSED STREET LIGHT
— (40.00)ES	EXISTING ELEVATION
— 40.00FS	PROPOSED ELEVATION
— (2940)	EXISTING CONTOUR
— 2940	PROPOSED CONTOUR
— (5.2%)	EXISTING SLOPE
— 5.4%	PROPOSED SLOPE
—	EXISTING INLET
—	PROPOSED INLET
—	PROPOSED STORM INFRASTRUCTURE
—	PROPOSED STORM MANHOLE
—	PROPOSED TEE / THRUST BLOCK
—	PROPOSED FLARED-END SECTION
—	EXISTING SANITARY SEWER MANHOLE



OFFSITE SIDEWALK GRADING PLAN

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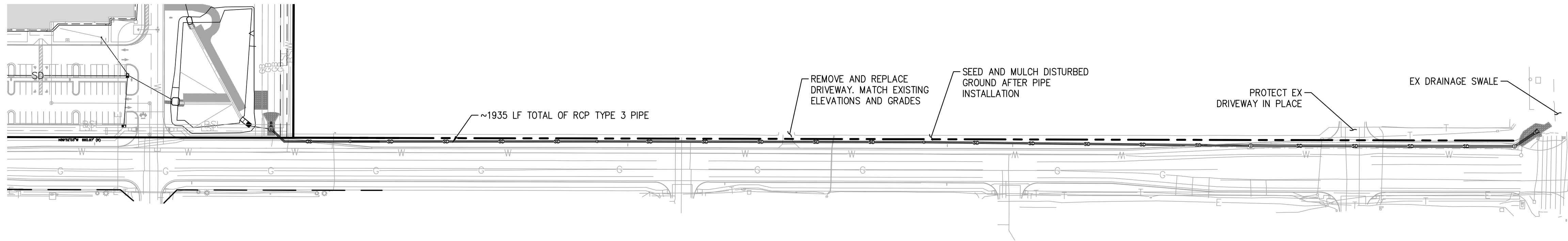
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BASIS OF BEARINGS:

BEARINGS ARE BASED ON THE WESTERLY BOUNDARY OF THE SUBJECT PARCEL COINCIDENT WITH THE EASTERLY BOUNDARY OF THE BENT GRASS RESIDENTIAL FILING NO.2, MONUMENTED ON THE NORTH END WITH A NO.5 REBAR & 1-3/8" RED PLASTIC CAP MARKED "ALC PLS 38087", FOUND FLUSH WITH GRADE, AND ON THE SOUTH END WITH A NO. 4 REBAR & 1" ORANGE PLASTIC CAP MARKED "PLS 38141", RECOVERED 0.6 BELOW GRADE, AND IS ASSUMED TO BEAR N 00°08'14" E A MEASURED DISTANCE OF 619.52 FEET.

BENCHMARK:

ELEVATIONS ARE BASED ON THE PROJECT BENCHMARK IDENTIFIED AS JK0239 ELEVATION=6902.3'(NAVD88), PER DATA PUBLISHED BY THE NATIONAL GEODETIC SURVEY.



OFFSITE OVERALL STORM PLAN

SYMBOLS LEGEND

—	PROPERTY LINE
— — —	ADJACENT PROPERTY LINE
— — — —	ROW LINE
— — — —	BUILDING SETBACK LINE
- - - - -	PROPOSED EASEMENT
- - - - -	LIMIT OF DISTURBANCE
— W —	EXISTING WATER LINE
— SS —	EXISTING SEWER LINE
— T —	PROPOSED TELEPHONE SERVICE LINE
— E —	PROPOSED ELECTRIC SERVICE LINE
— W —	PROPOSED WATER SERVICE LINE
— SS —	PROPOSED SS SERVICE LINE
— SD —	PROPOSED STORM DRAIN
— R —	PROPOSED RIDGE LINE
— GB —	PROPOSED GRADE BREAK
— V —	PROPOSED TOP OF POND
— V —	PROPOSED BOTTOM OF POND
—	PROPOSED SIGN
—	PROPOSED SS CLEANOUT
—	PROPOSED BACKFLOW PREVENTOR
—	EXISTING FIRE HYDRANT
—	PROPOSED FIRE HYDRANT
—	PROPOSED STREET LIGHT
—	EXISTING INLET
—	PROPOSED INLET
—	PROPOSED STORM INFRASTRUCTURE
—	PROPOSED STORM MANHOLE
—	PROPOSED TEE / THRUST BLOCK
—	PROPOSED FLARED-END SECTION
—	EXISTING SANITARY SEWER MANHOLE

0 100' 200'
SCALE: 1" = 100'



PCD FILE NO. PPR2615

PREPARED UNDER THE SUPERVISION OF
TAIT & ASSOCIATES, INC.

BRIAN CAMPBELL
COLORADO P.E. #40196

OFFSITE OVERALL STORM PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWING CW
DATE: 11/11/2024
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DATE:
DATE:
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Jul 24, 2026 - 1:03pm by rromstetter A:\ENGINEERING\CO\CO15170 - Honor Charter School - Payson, CO\ENR\Construction Drawings\CO1517_250.dwg



UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

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BASIS OF BEARINGS:

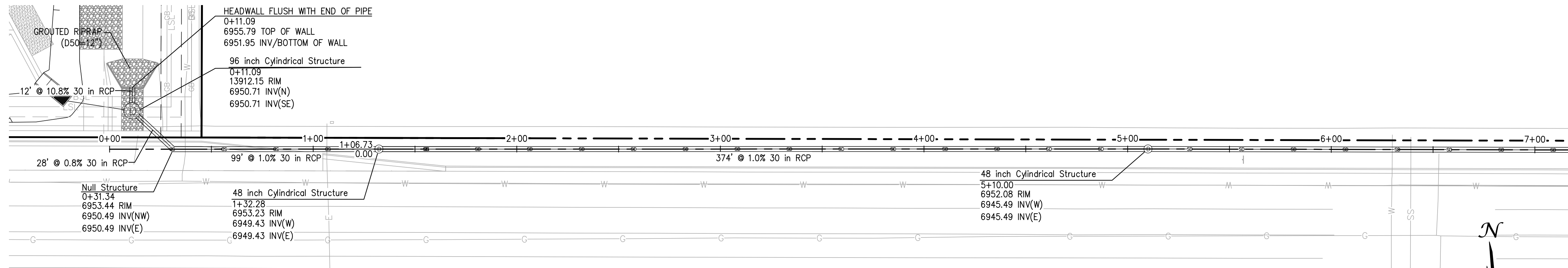
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BENCHMARK:

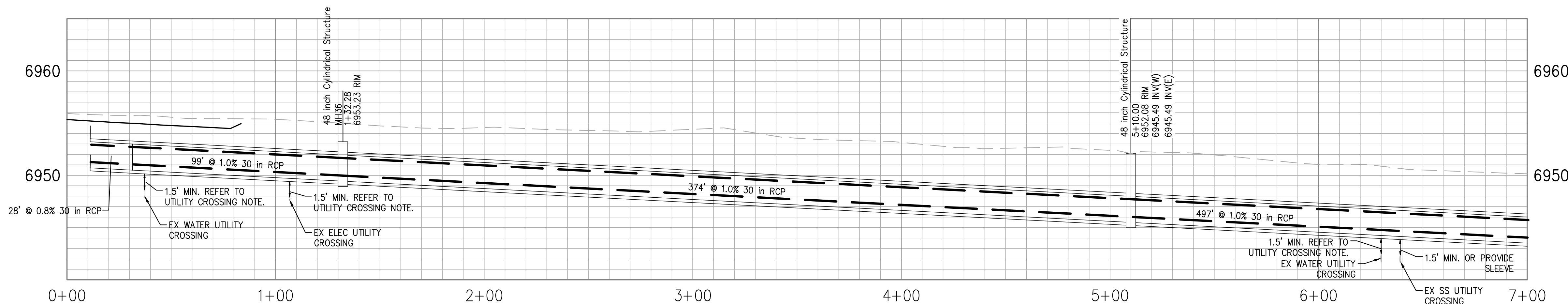
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— — —	ADJACENT PROPERTY LINE
— — — — —	ROW LINE
— — — — —	BUILDING SETBACK LINE
- - - - -	PROPOSED EASEMENT
— " — " —	LIMIT OF DISTURBANCE
— W —	EXISTING WATER LINE
— SS —	EXISTING SEWER LINE
— T —	PROPOSED TELEPHONE SERVICE LINE
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—	PROPOSED SIGN
—	PROPOSED SS CLEANOUT
—	PROPOSED BACKFLOW PREVENTOR
—	EXISTING FIRE HYDRANT
—	PROPOSED FIRE HYDRANT
—	PROPOSED STREET LIGHT
—	EXISTING INLET
—	PROPOSED INLET
—	PROPOSED STORM INFRASTRUCTURE
—	PROPOSED STORM MANHOLE
—	PROPOSED TEE / THRUST BLOCK
—	PROPOSED FLARED-END SECTION
—	EXISTING SANITARY SEWER MANHOLE



OFFSITE STORM PLAN 1



OFFSITE STORM PROFILE 1

UTILITY CROSSING NOTE:
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PCD FILE NO. PPR2615

PREPARED UNDER THE SUPERVISION OF
TAIT & ASSOCIATES, INC.

DRAWING C.W.
DATE: 11/11/2024
CHECKED:
DATE:
REVISION #:
DATE:
JOB NO. CO1517

BRIAN CAMPBELL
COLORADO P.E. #40196

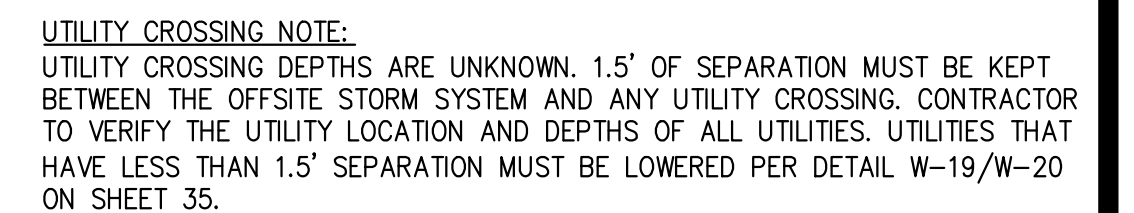
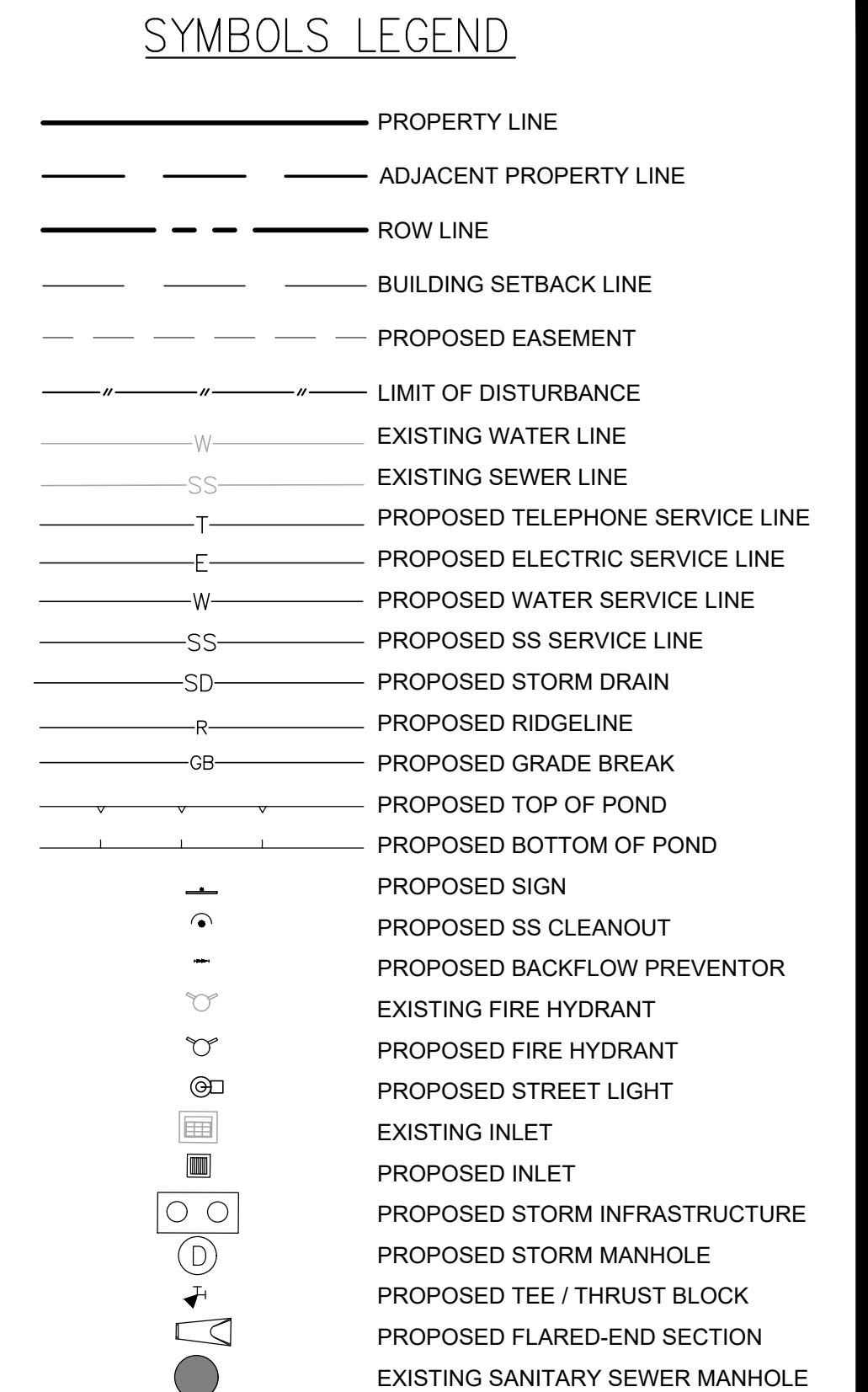
32
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38

OFFSITE STORM P&P
HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
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⊕BENCHMARK:
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JK0239 ELEVATION=6902.3'(NAVD88). PER DATA PUBLISHED BY THE
NATIONAL GEODETIC SURVEY.

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWN: CW
DATE: 11/11/2024
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DATE:
REVISION #:
DATE:
JOB NO: CO1517

33
OF
38

2/6/2024 Internal Review #1

Jul 24, 2026 - 1:04pm by rromstetter A:\ENGINEERING\CO\CO15170 - Honor Charter School - Payson, CO\ENR\Construction Drawings\CO1517_20.dwg



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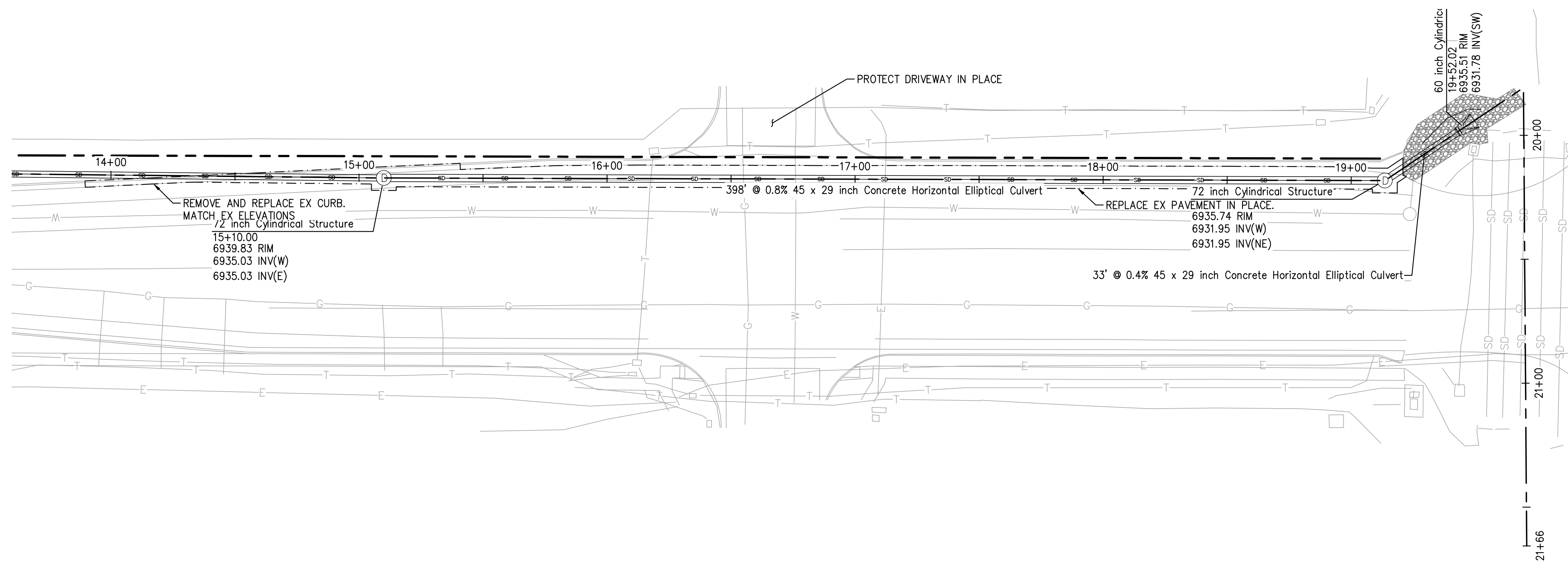
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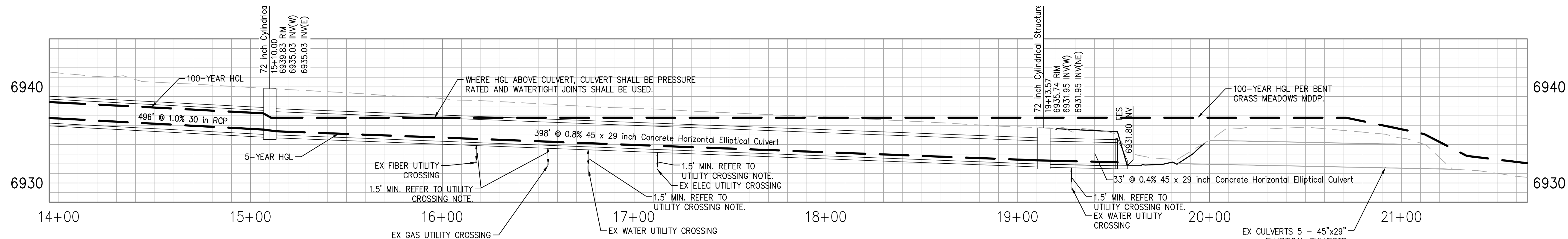
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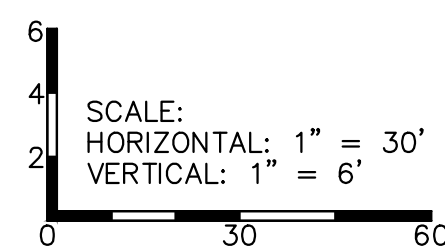
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OFFSITE STORM PLAN 3

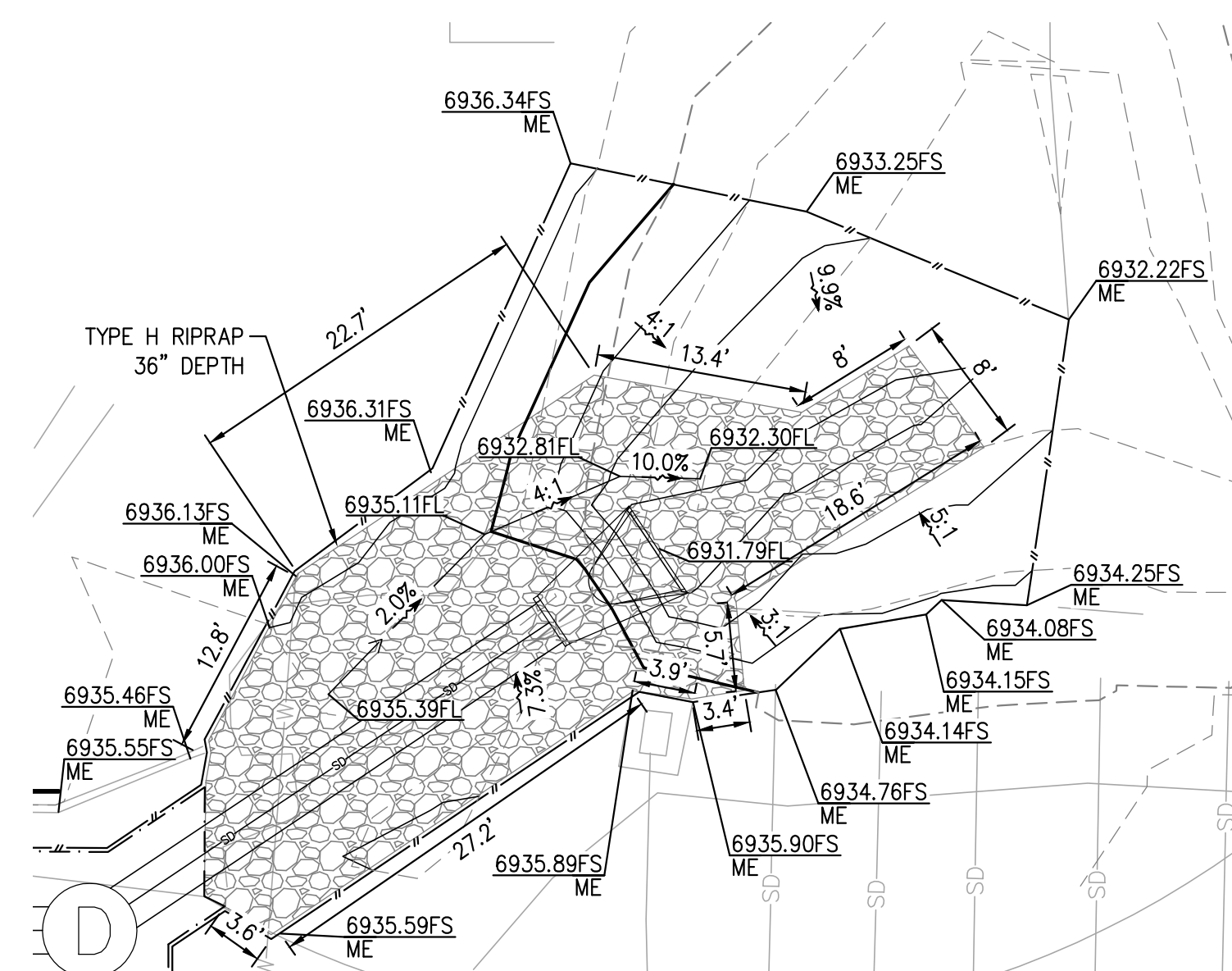
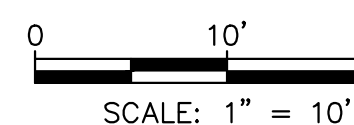


OFFSITE STORM PROFILE 3



UTILITY CROSSING NOTE:

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FES GRADING DETAIL

SYMBOLS LEGEND

	PROPERTY LINE
	ADJACENT PROPERTY LINE
	ROW LINE
	BUILDING SETBACK LINE
	PROPOSED EASEMENT
	LIMIT OF DISTURBANCE
	EXISTING WATER LINE
	EXISTING SEWER LINE
	PROPOSED TELEPHONE SERVICE LINE
	PROPOSED ELECTRIC SERVICE LINE
	PROPOSED WATER SERVICE LINE
	PROPOSED SS SERVICE LINE
	PROPOSED STORM DRAIN
	PROPOSED RIDGELINE
	PROPOSED GRADE BREAK
	PROPOSED TOP OF POND
	PROPOSED BOTTOM OF POND
	PROPOSED SIGN
	PROPOSED SS CLEANOUT
	PROPOSED BACKFLOW PREVENTOR
	EXISTING FIRE HYDRANT
	PROPOSED FIRE HYDRANT
	PROPOSED STREET LIGHT
	EXISTING INLET
	PROPOSED INLET
	PROPOSED STORM INFRASTRUCTURE
	PROPOSED STORM MANHOLE
	PROPOSED TEE / THRUST BLOCK
	PROPOSED FLARED-END SECTION
	EXISTING SANITARY SEWER MANHOLE

PCD FILE NO. PPR2615

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DATE:	REVISION #:
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BRIAN CAMPBELL
COLORADO P.E. #40196

34
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38

OFFSITE STORM P&P 3
HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.



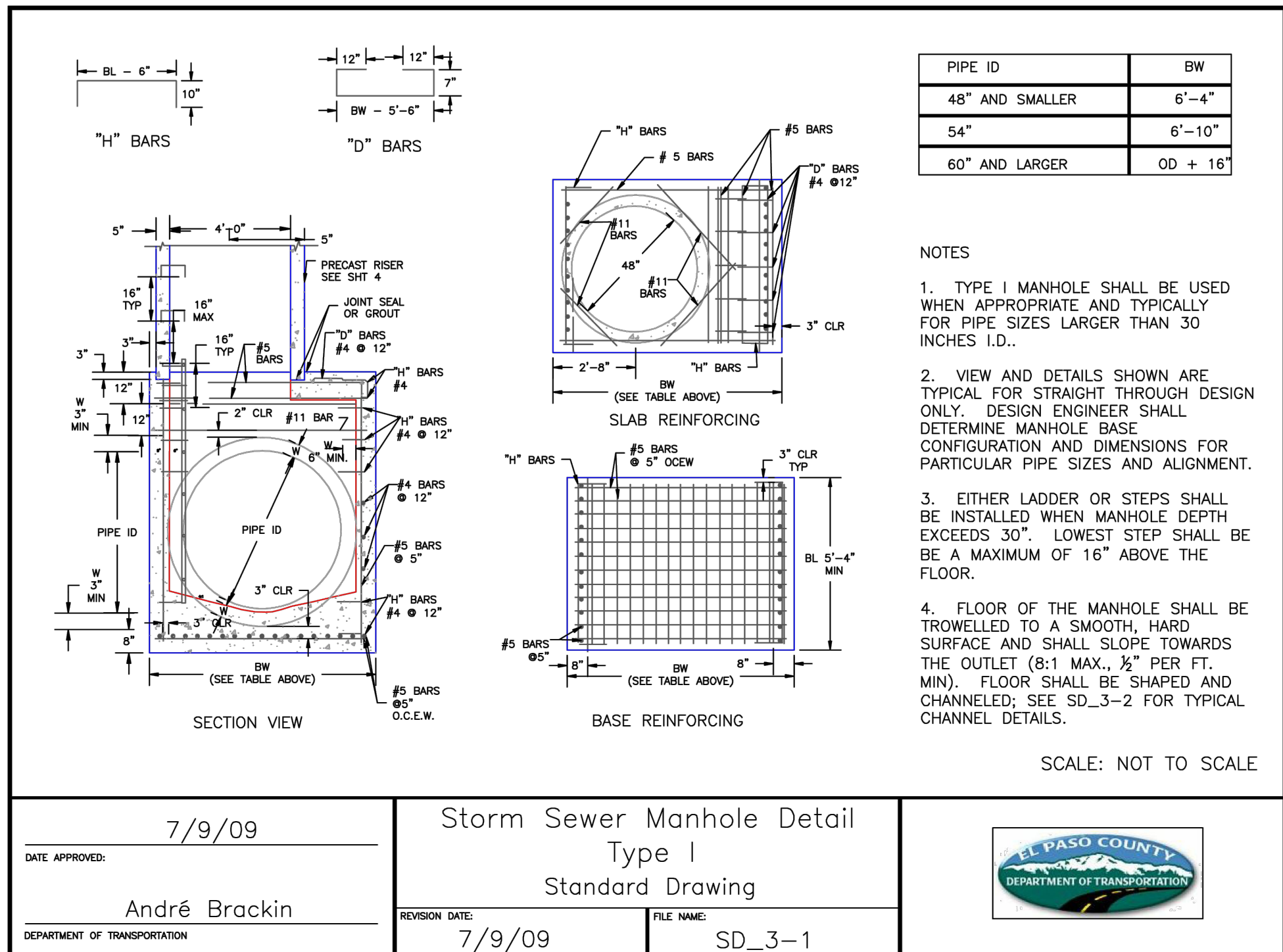
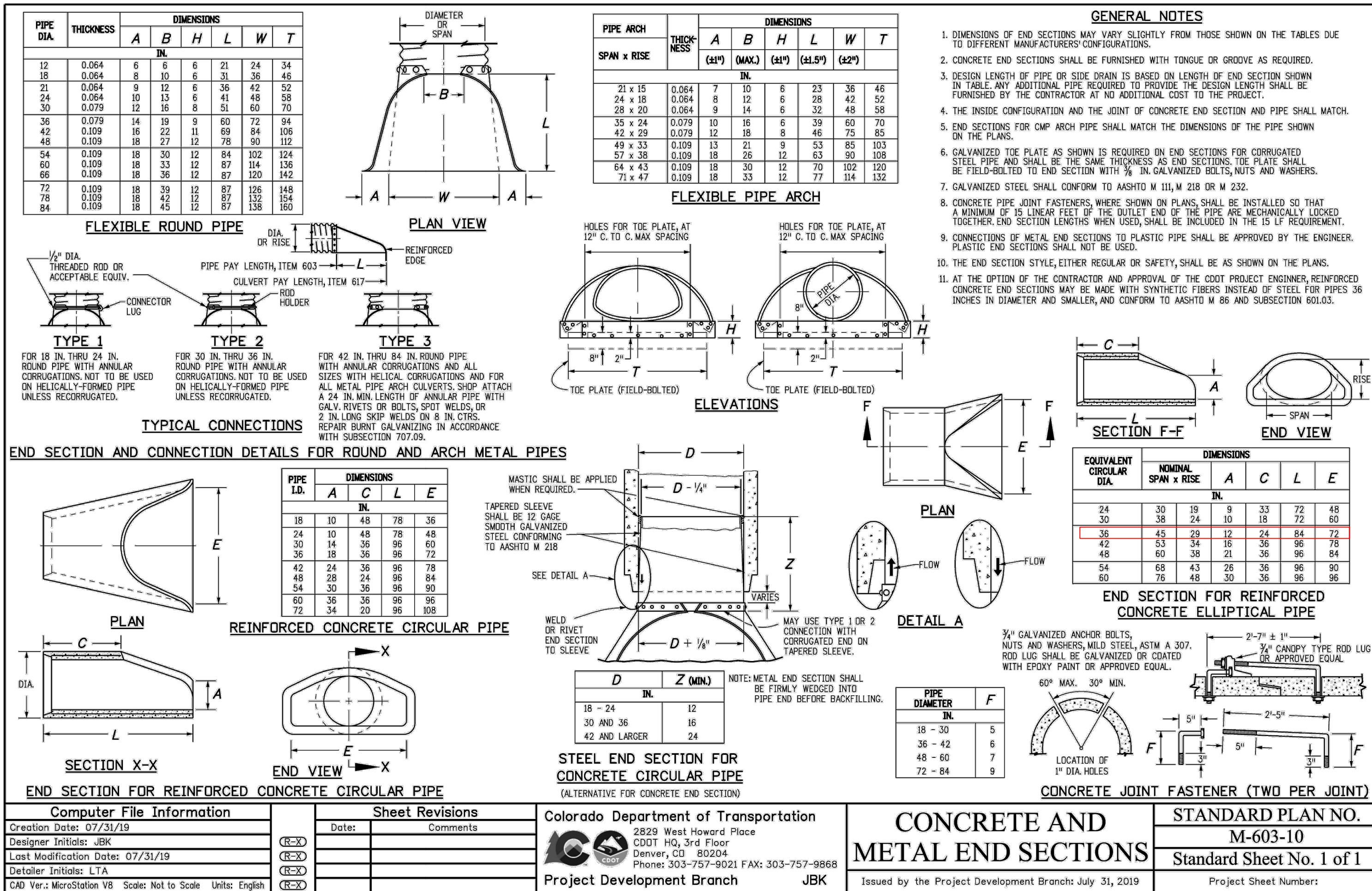
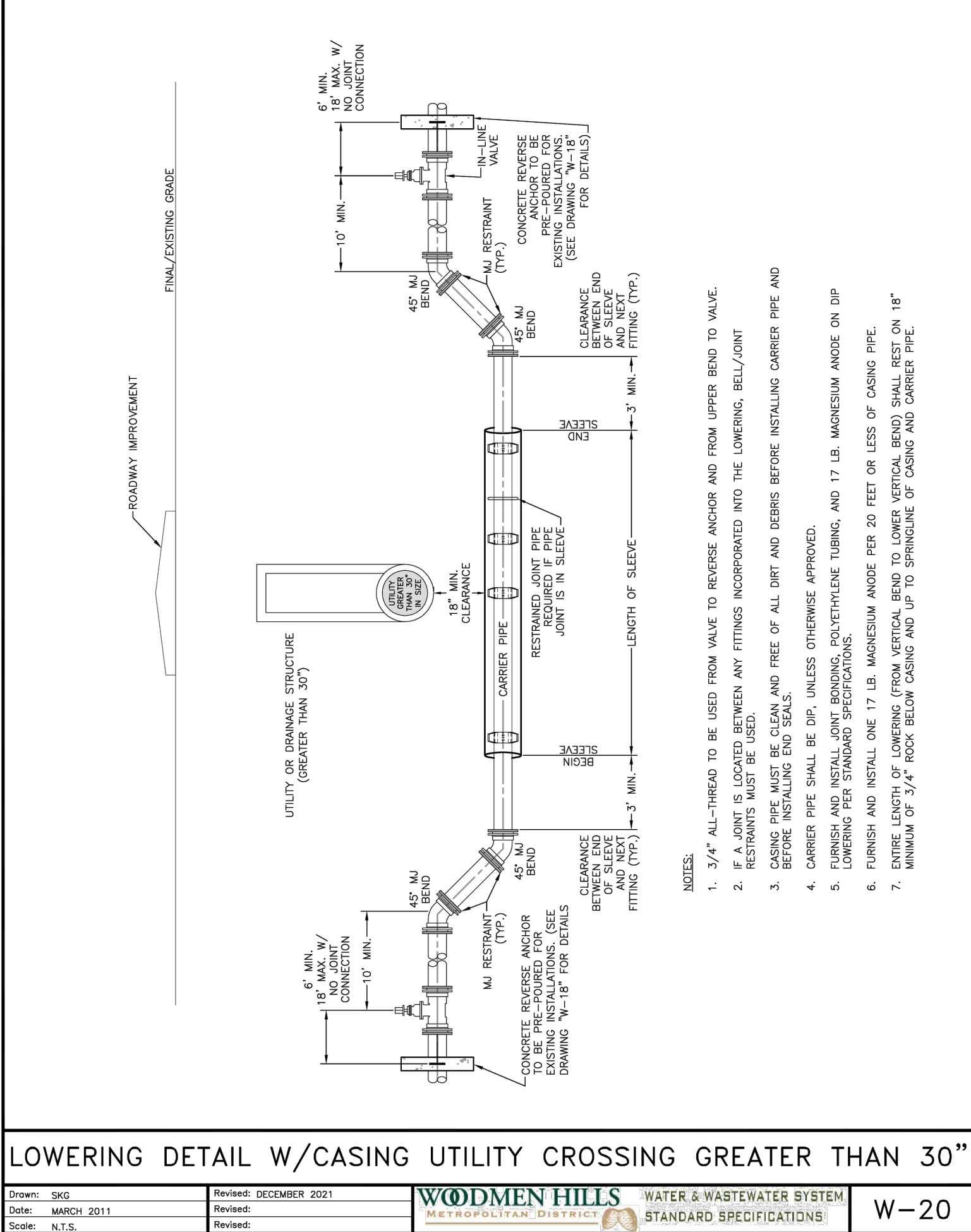
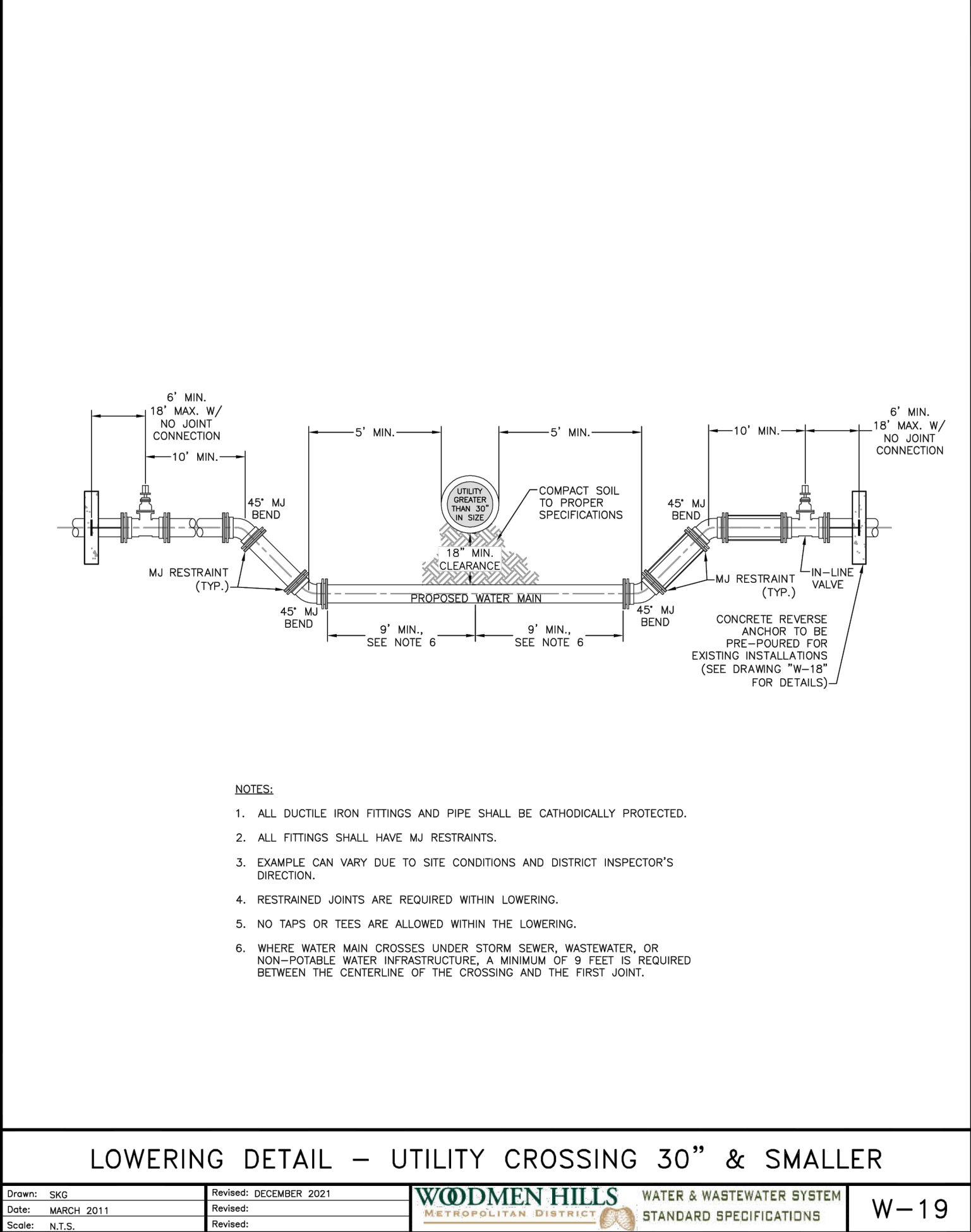
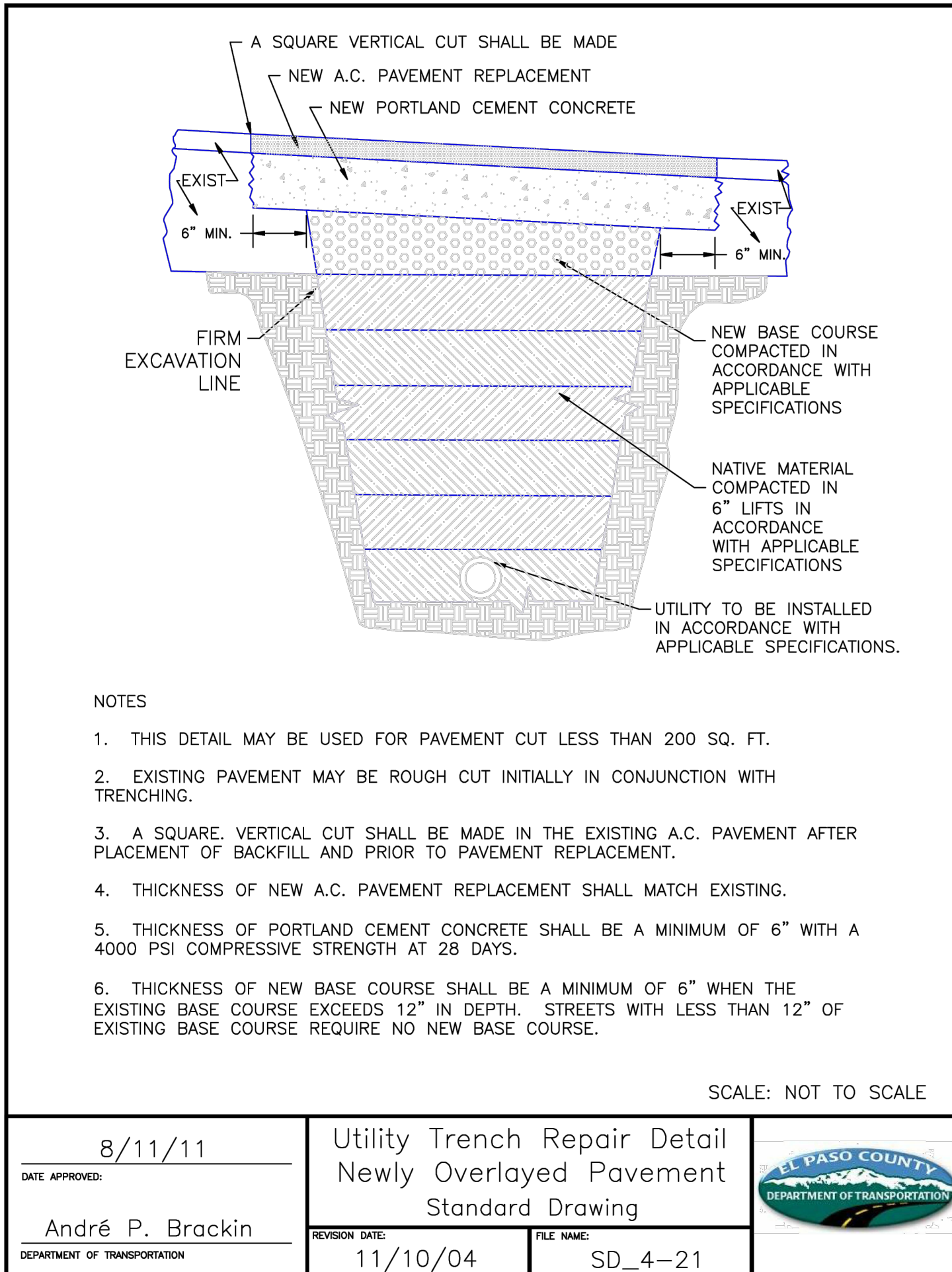
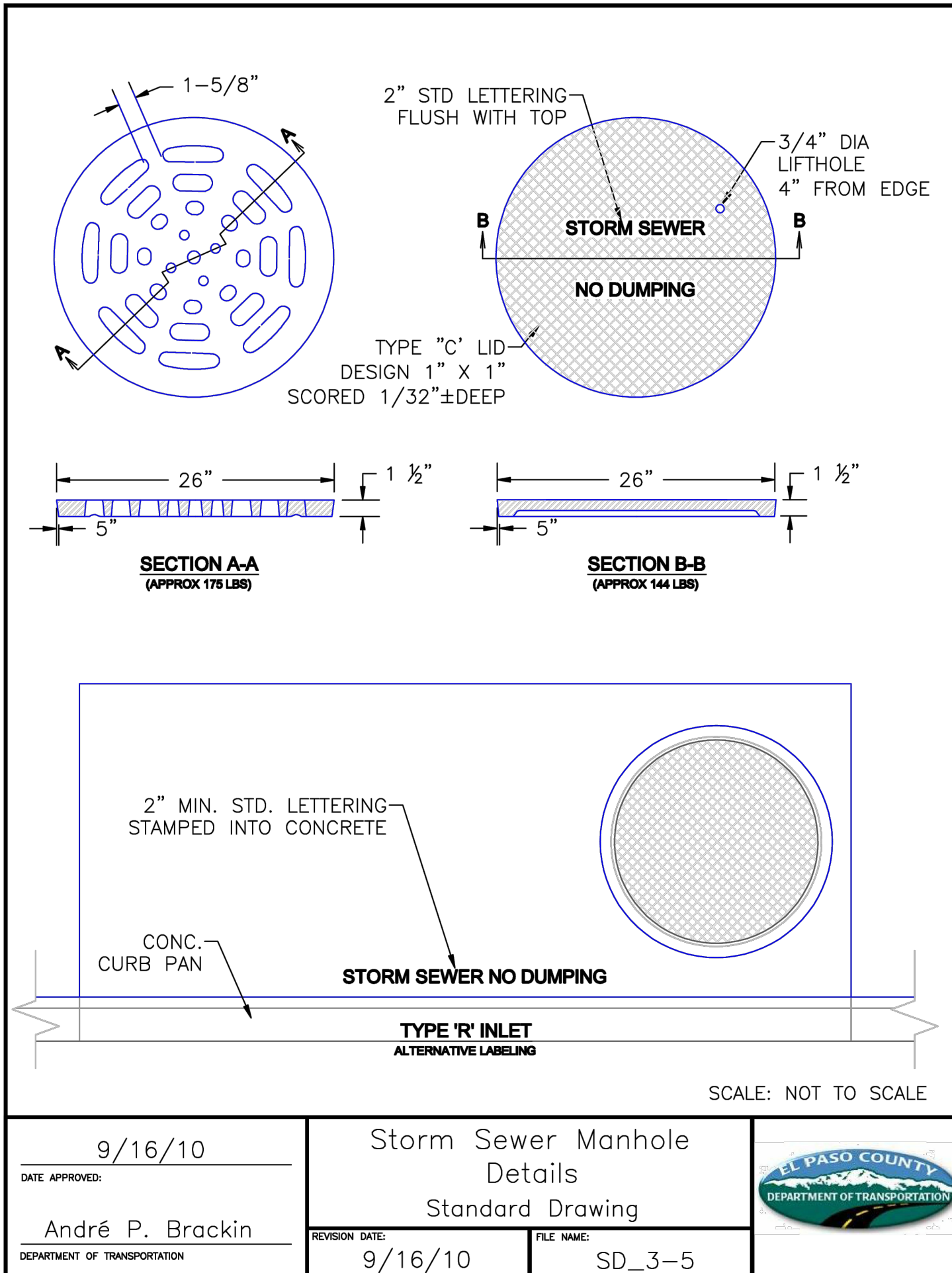
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Jul 24, 2026 - 1:04pm - 1:04pm from: rasmakster A: ENGINEERING\CO15170 - Honor Charter School - Payson, CO\ENR\Construction Drawings\CO1517-01-UTIL.dwg



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DATE: 11/11/2024
REVISION #:
DATE: 11/11/2024
JOB NO. CO1517

35
OF
38

BRIAN CAMPBELL
COLORADO P.E. #40196

2/6/2024 Internal Review #1

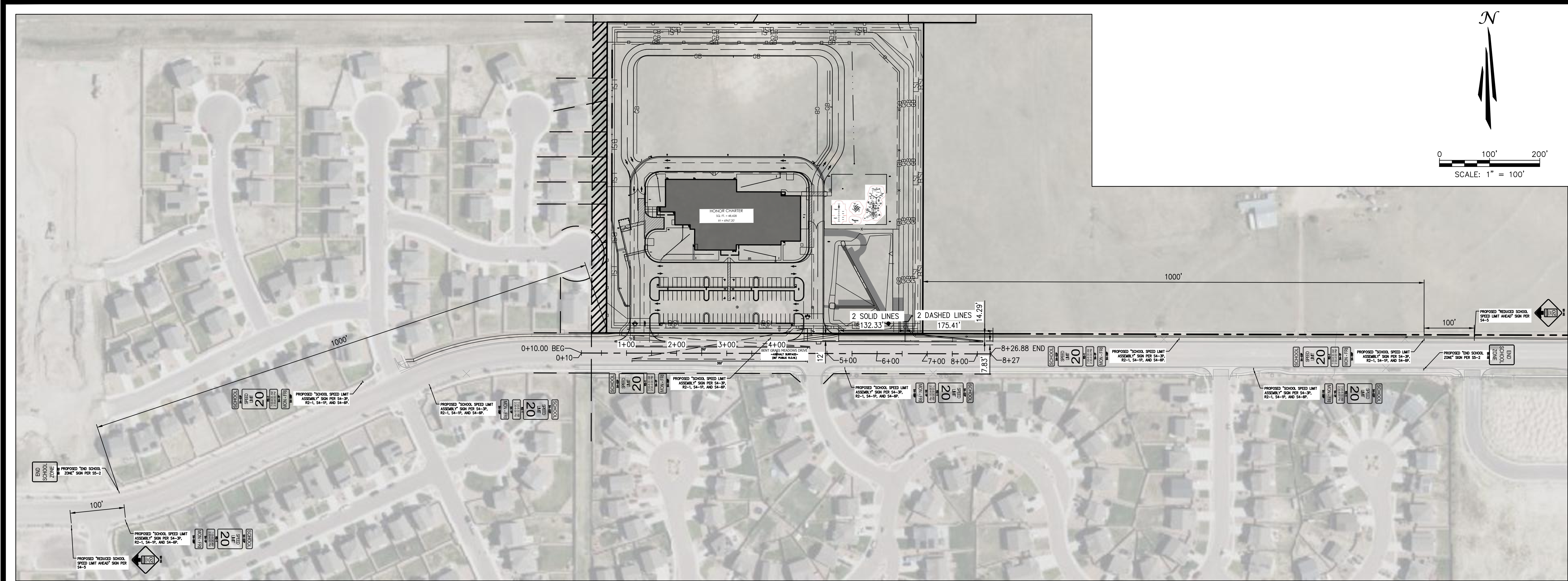
OFF-SITE STORM DETAILS
HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

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NO. DESCRIPTION BY DATE

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OFFSITE SIGNAGE AND STRIPING PLAN

NOTES:

ALL INSTALL PAVEMENT STRIPING TO BE 4-INCH EPOXY SOLID WHITE PER MUTCD FIGURE 3B-11.

WHERE REQUIRED BY THE FIRE CODE OFFICIAL, FIRE APPARATUS ACCESS ROADS SHALL BE MARKED WITH PERMANENT NO PARKING--FIRE LANE SIGNS APPROVED BY THE FIRE CODE OFFICIAL AND COMPLY WITH THE MOST CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) FOR STREETS AND HIGHWAYS. SIGNS SHALL HAVE A MINIMUM DIMENSION OF 12 INCHES WIDE BY 18 INCHES HIGH AND HAVE RED LETTERS ON A WHITE REFLECTIVE BACKGROUND. SIGNS SHALL BE POSTED ON ONE OR BOTH SIDES OF THE FIRE APPARATUS ROAD AS REQUIRED BY SECTION D103.6.1, D103.6.2, OR D103.6.3, AND INDICATE THE EXTENT OF THE NO PARKING ZONE.

DRAWING DETAIL LIST (DDL)

SIGN NAME	MUTCD DETAIL	SIGN SIZES
R2-1	SPEED LIMIT 20	24"X 30"
S5-2	END SCHOOL ZONE	24"X 30"
S4-3P	SCHOOL PLAQUE	24"X 10"
S4-1P	APPLICABLE TIME PLAQUE	24"X 10"
S4-6P	MON-FRI PLAQUE	24"X 10"
S4-5	REDUCED SCHOOL SPEED LIMIT AHEAD	30"X 30"

SYMBOLS LEGEND

---	PROPERTY LINE
---	ADJACENT PROPERTY/ ROW LINE
---	BUILDING SETBACK LINE
---	PROPOSED EASEMENT
---	LIMIT OF DISTURBANCE
---	PROPOSED SOLID SCREEN FENCE
---	PROPOSED FENCE
---	PROPOSED RIDGELINE
---	PROPOSED GRADE BREAK
---	PROPOSED TOP OF POND
---	PROPOSED BOTTOM OF POND
---	PROPOSED SWALE
---	BUILDING SETBACK LINE
---	LANDSCAPE SETBACK LINE
---	PROPOSED FLAGPOLE
---	PROPOSED SIGN
---	PROPOSED SS CLEANOUT
---	PROPOSED BACKFLOW PREVENTOR
---	EXISTING FIRE HYDRANT
---	PROPOSED FIRE HYDRANT
---	PROPOSED STREET LIGHT
---	EXISTING INLET
---	PROPOSED INLET
---	PROPOSED STORM INFRASTRUCTURE
---	PROPOSED STORM MANHOLE
---	PROPOSED TEE / THRUST BLOCK
---	PROPOSED FLARED-END SECTION
---	EXISTING SANITARY SEWER MANHOLE
---	PROPOSED LIGHT DUTY ASPHALT
---	PROPOSED HEAVY DUTY ASPHALT
---	PROPOSED LIGHT DUTY CONCRETE
---	PROPOSED HEAVY DUTY CONCRETE
---	PROPOSED RIP RAP
---	STOPPING SIGHT TRIANGLE
---	CAR FOR STACKING

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OFFSITE SIGNAGE AND STRIPING PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
8250 BENT GRASS MEADOWS DR.

DRAWN: CW	CHECKED:
DATE: 11/11/2024	DATE:
REVISION #:	REVISION #:
DATE:	DATE:
JOB NO. C01517	

36
OF
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PCD FILE NO. PPR2615

PREPARED UNDER THE SUPERVISION OF
TAIT & ASSOCIATES, INC.

BRIAN CAMPBELL
COLORADO P.E. #40196

2/6/2024 Internal Review #1

Jul 24, 2026 - 1:05pm by rromstetter A:\ENGINEERING\CO\15170 - Honor Charter School - Payton, CO\ENG\Construction Drawings\CO15170_R0_VISC.dwg



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UNAUTHORIZED CHANGES & USES

THE ENGINEER PREPARING THESE PLANS WILL NOT BE RESPONSIBLE FOR, OR LIABLE FOR, UNAUTHORIZED CHANGES TO OR USES OF THESE PLANS. ALL CHANGES OF THESE PLANS MUST BE IN WRITING AND MUST BE APPROVED BY THE PREPARER OF THESE PLANS PRIOR TO CONSTRUCTION. CONSTRUCTION CONTRACTOR AGREES THAT IN ACCORDANCE WITH GENERALLY ACCEPTED CONSTRUCTION PRACTICES, CONSTRUCTION CONTRACTOR WILL BE REQUIRED TO ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY, THAT THIS REQUIREMENT SHALL BE MADE TO APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS, AND CONSTRUCTION CONTRACTOR FURTHER AGREES TO DEFEND, INDEMNIFY AND HOLD DESIGN PROFESSIONAL HARMLESS FROM ANY AND ALL LIABILITY, REAL OR ALLEGED, IN CONNECTION WITH THE PERFORMANCE OF WORK ON THIS PROJECT, EXCEPTING LIABILITY ARISING FROM THE SOLE NEGLIGENCE OF DESIGN PROFESSIONAL.

NOTE TO CONTRACTOR

THE EXISTENCE AND LOCATION OF ANY UNDERGROUND UTILITIES, PIPES, AND/OR STRUCTURES SHOWN ON THESE PLANS WERE OBTAINED BY A SEARCH OF AVAILABLE RECORDS. THERE MAY BE EXISTING UTILITIES NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL ASCERTAIN THE TRUE VERTICAL AND HORIZONTAL LOCATION OF THOSE UNDERGROUND UTILITIES TO BE USED PRIOR TO CONSTRUCTION AND SHALL BE RESPONSIBLE FOR ANY DAMAGE TO ANY PUBLIC OR PRIVATE UTILITIES, SHOWN OR NOT SHOWN HEREON.

BASIS OF BEARINGS:

BEARINGS ARE BASED ON THE WESTERLY BOUNDARY OF THE SUBJECT PARCEL COINCIDENT WITH THE EASTERLY BOUNDARY OF THE BENT GRASS RESIDENTIAL FILING NO.2, MONUMENTED ON THE NORTH END WITH A NO.5 REBAR & 1-3/8" RED PLASTIC CAP MARKED "ALC PLS 38087", FOUND FLUSH WITH GRADE, AND ON THE SOUTH END WITH A NO. 4 REBAR & 1" ORANGE PLASTIC CAP MARKED "PLS 38141", RECOVERED 0.6 BELOW GRADE, AND IS ASSUMED TO BEAR N 00°08'14" E A MEASURED DISTANCE OF 619.52 FEET.

BENCHMARK:

ELEVATIONS ARE BASED ON THE PROJECT BENCHMARK IDENTIFIED AS JK0239 ELEVATION=6902.3'(NAVD88), PER DATA PUBLISHED BY THE NATIONAL GEODETIC SURVEY.

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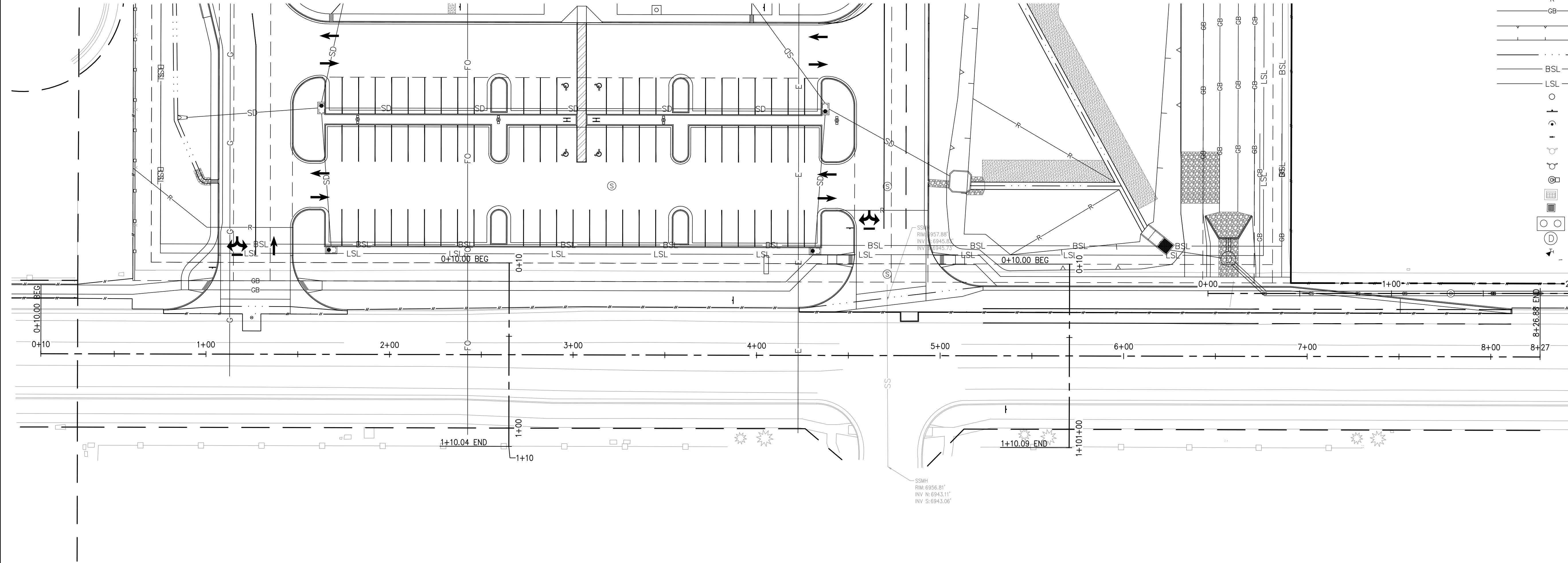
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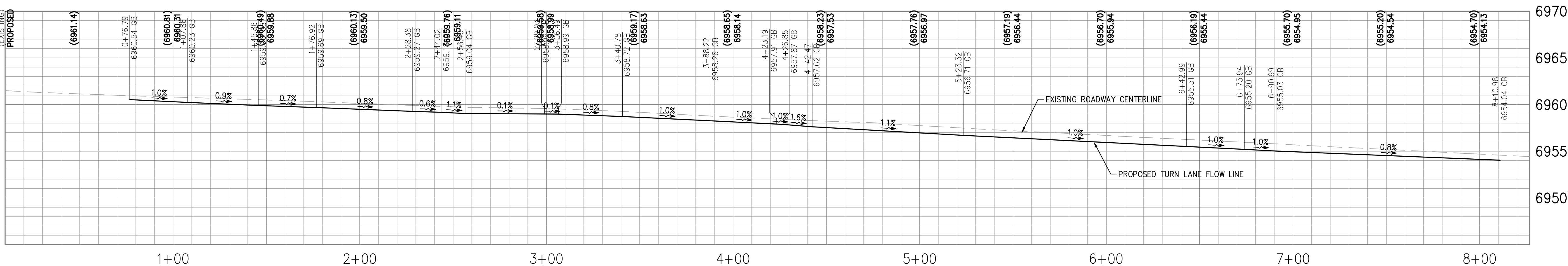
0 30' 60'
SCALE: 1" = 30'



SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY/ ROW LINE
- BUILDING SETBACK LINE
- PROPOSED EASEMENT
- LIMIT OF DISTURBANCE
- PROPOSED SOLID SCREEN FENCE
- PROPOSED FENCE
- PROPOSED RIDGELINE
- PROPOSED GRADE BREAK
- PROPOSED TOP OF POND
- PROPOSED BOTTOM OF POND
- PROPOSED SWALE
- BSL BUILDING SETBACK LINE
- LSL LANDSCAPE SETBACK LINE
- PROPOSED FLAGPOLE
- PROPOSED SIGN
- PROPOSED SS CLEANOUT
- PROPOSED BACKFLOW PREVENTOR
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- PROPOSED STREET LIGHT
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- PROPOSED INLET
- PROPOSED STORM INFRASTRUCTURE
- PROPOSED STORM MANHOLE
- PROPOSED TEE / THRUST BLOCK

ROADWAY HORIZONTAL CONTROL PLAN



ROADWAY HORIZONTAL CONTROL PLAN

BENT GRASS MEADOWS DRIVE HORIZONTAL CONTROL PLAN

HONOR CHARTER SCHOOL
HIGHMARK SCHOOL DEVELOPMENT
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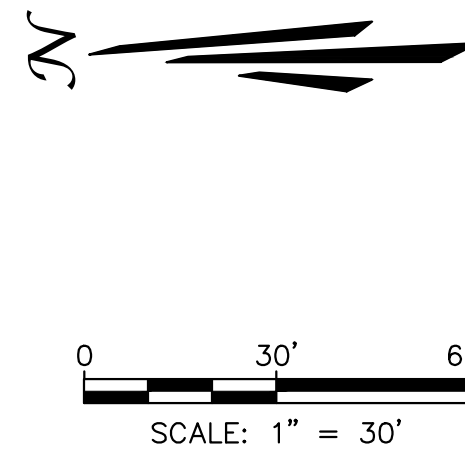
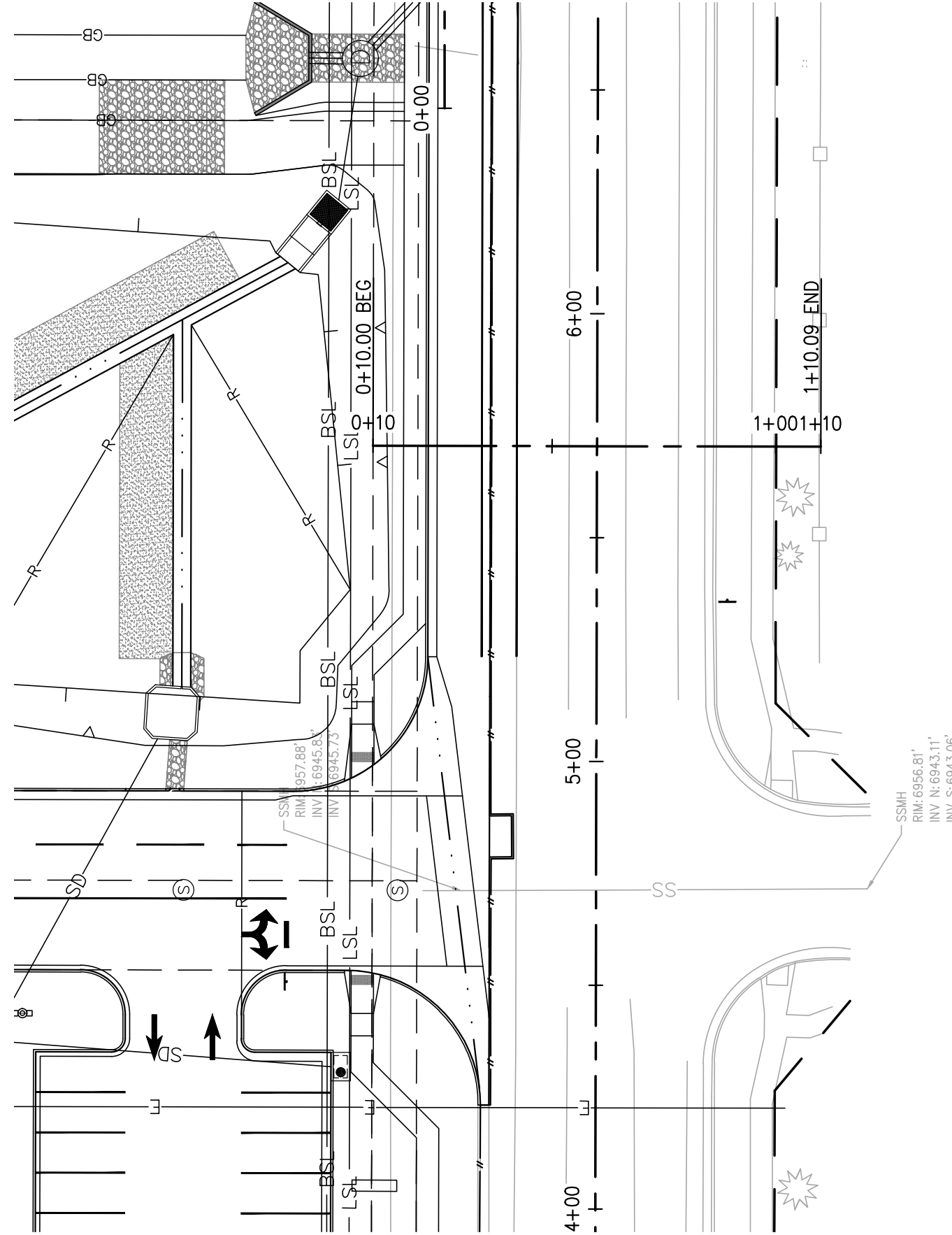
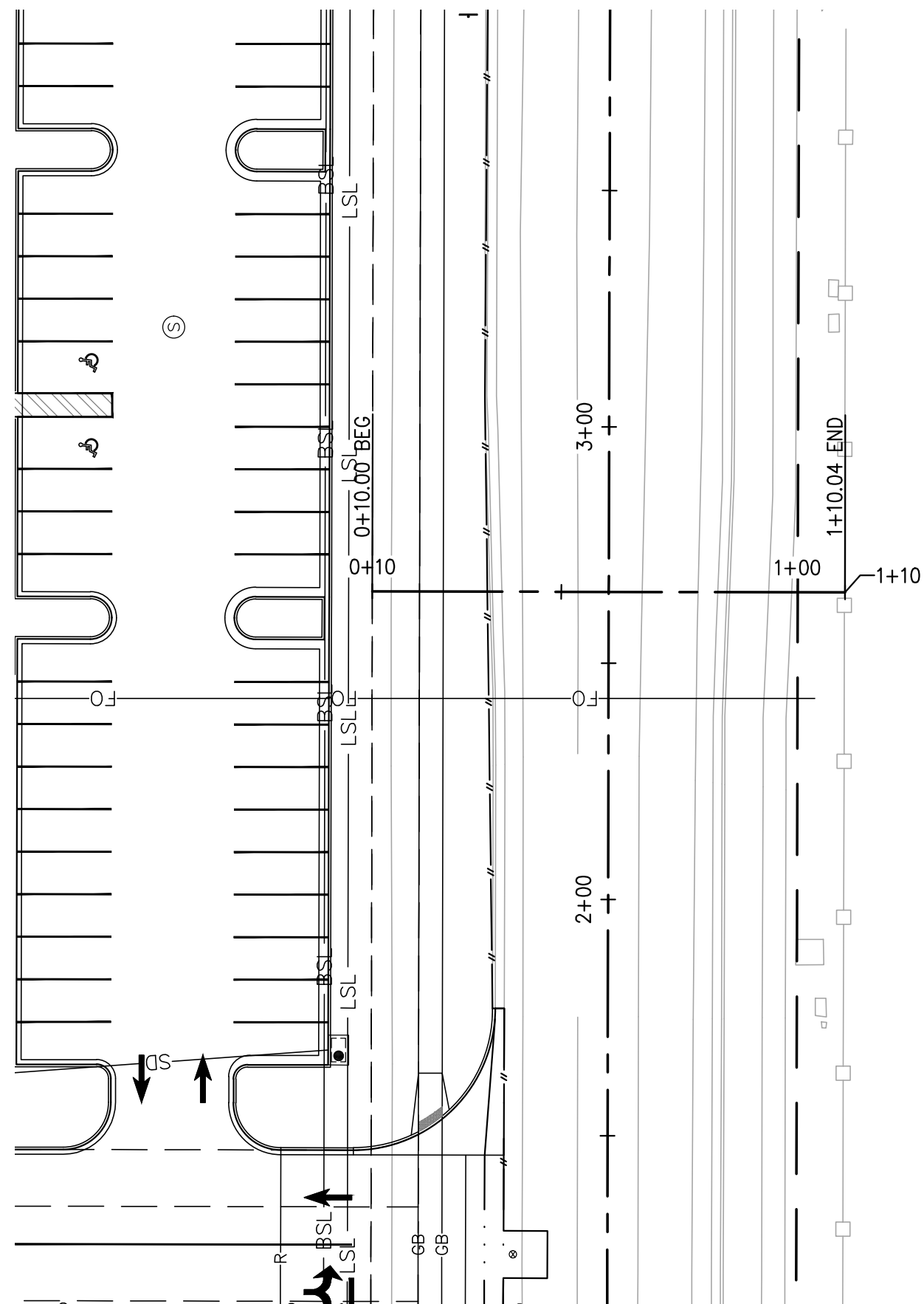
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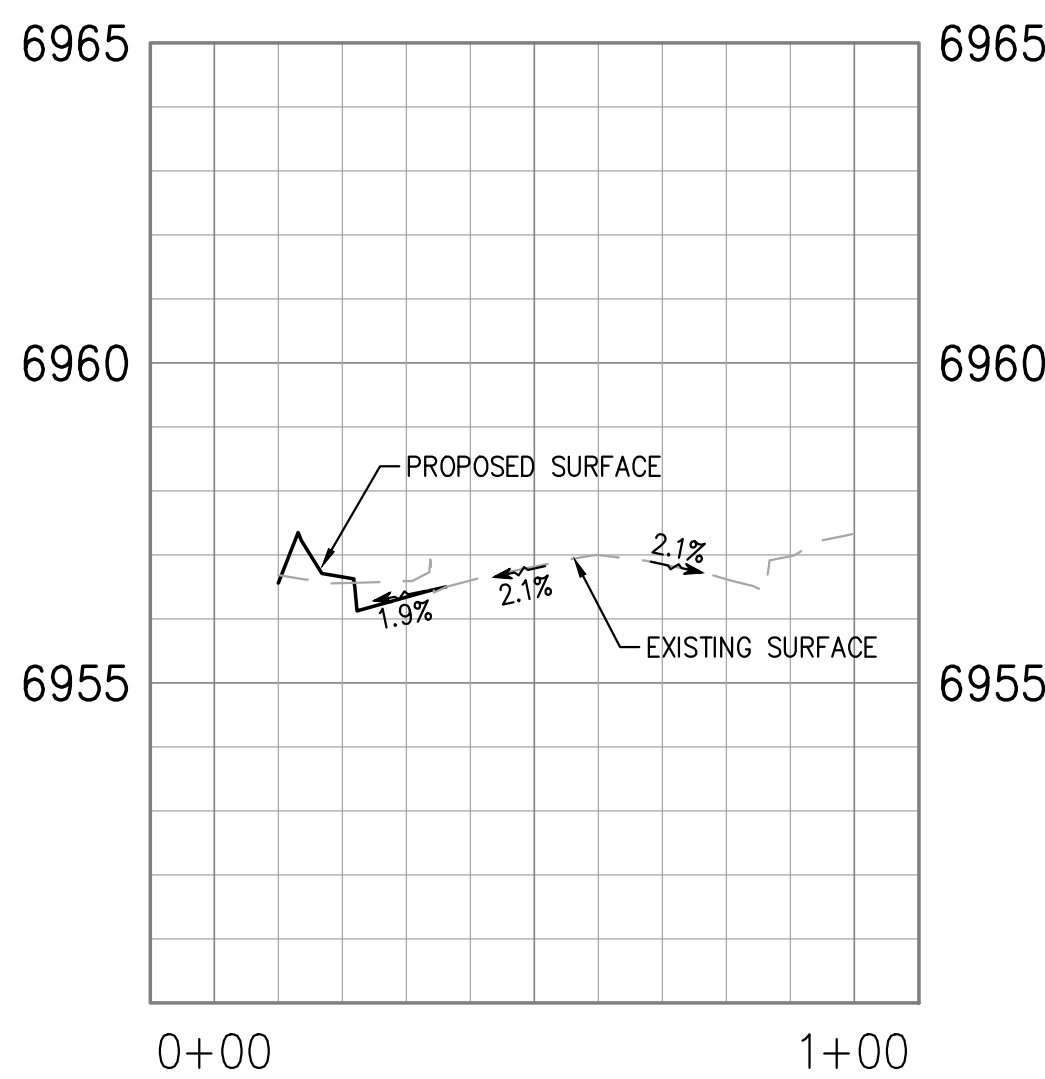
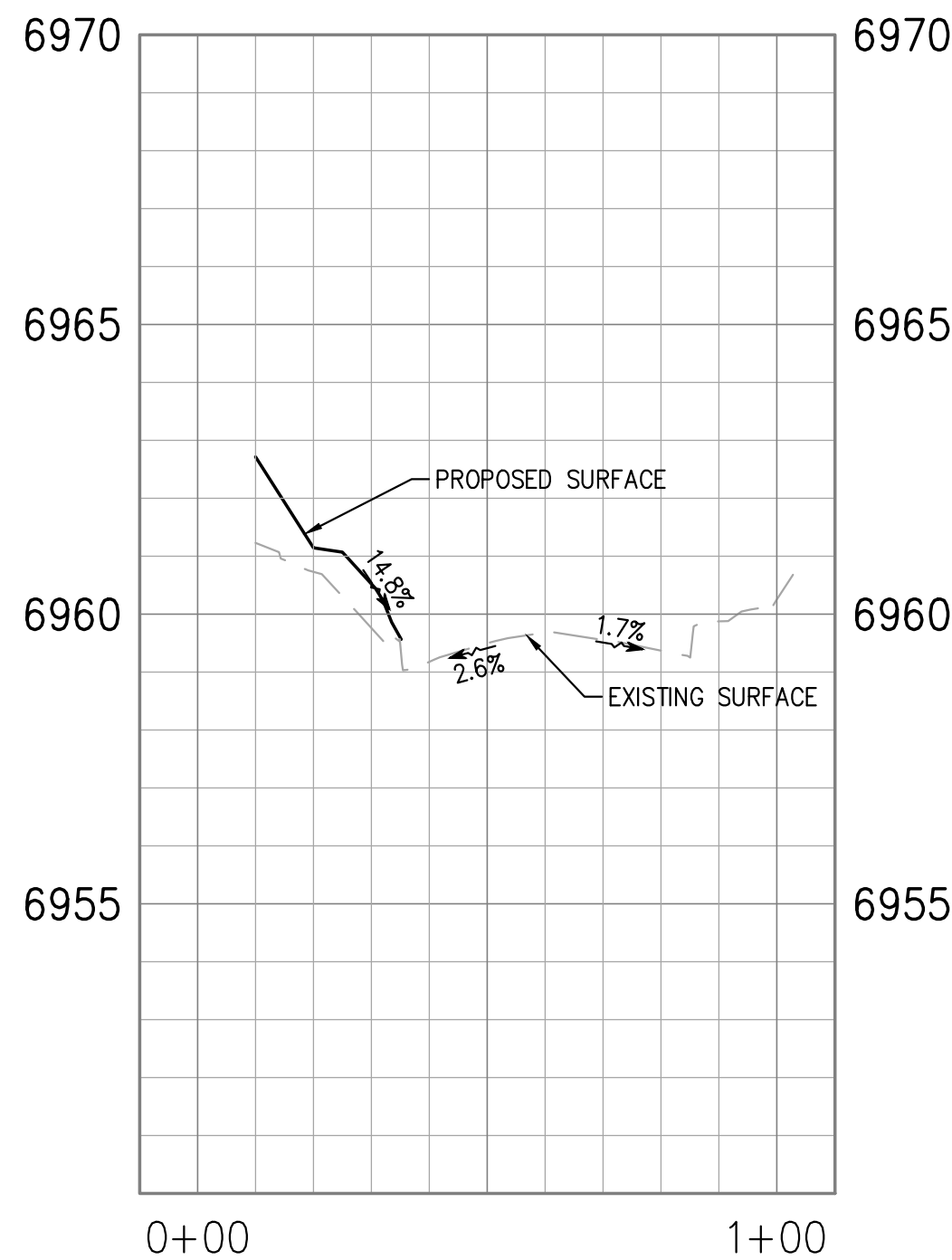
ROADWAY HORIZONTAL CONTROL PLAN



SYMBOLS LEGEND

- PROPERTY LINE
- ADJACENT PROPERTY/ ROW LINE
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ROADWAY CROSS SECTIONS



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BRIAN CAMPBELL
COLORADO P.E. #40196

ROADWAY CROSS SECTIONS

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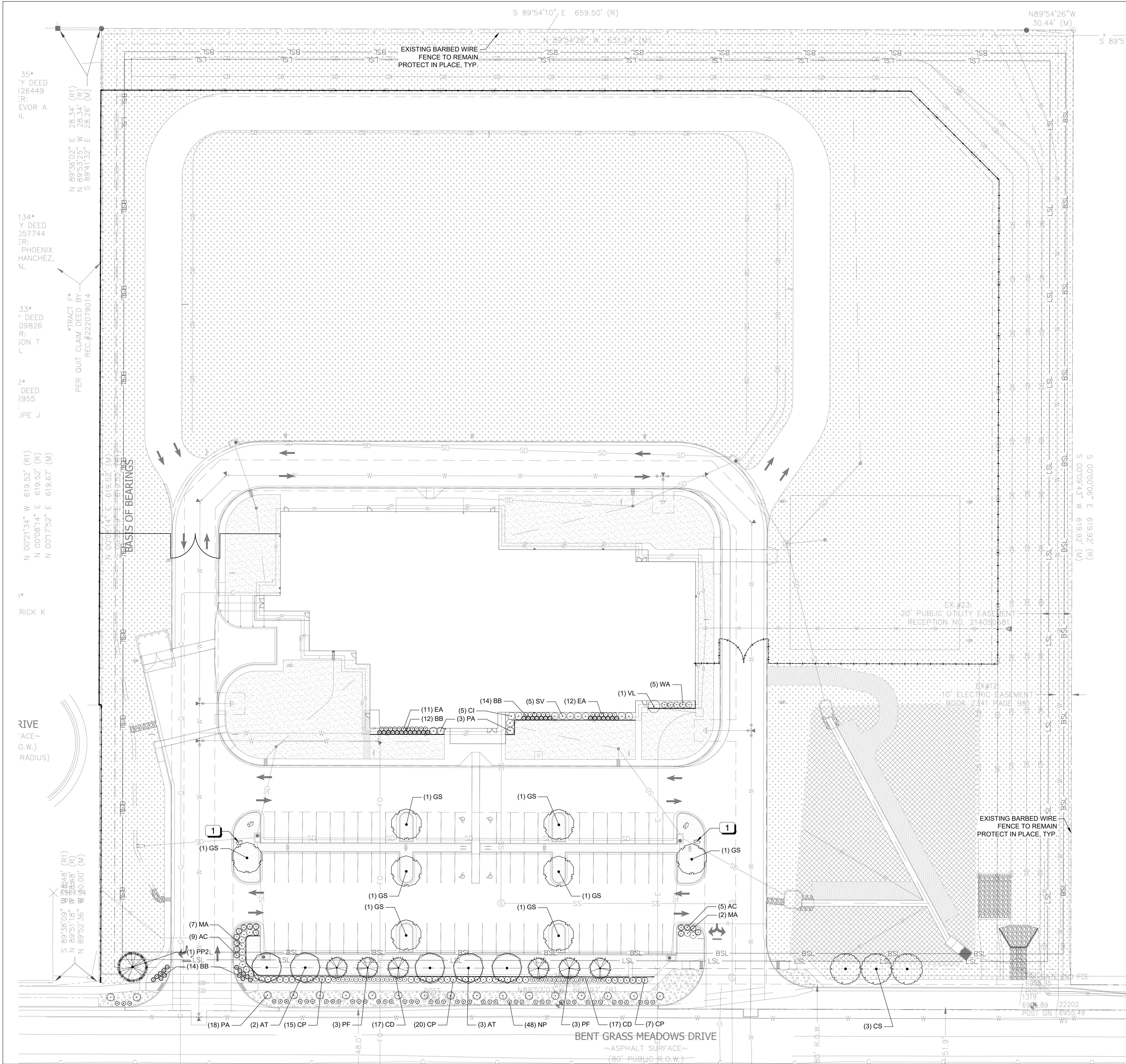
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2/6/2024 Internal Review #1

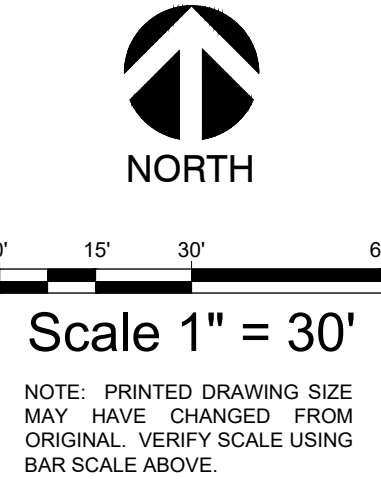
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OF
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LANDSCAPE CALCULATIONS

SITE INFORMATION: AUTHORITY HAVING JURISDICTION: ZONING: TOTAL SITE AREA:		EL PASO COUNTY, COLORADO BENT GRASS PLANNED UNIT DEVELOPMENT (PUD142) 391,129 SF	
STREETSCAPE LANDSCAPE STREETSCAPE @ BENT GRASS MEADOWS DRIVE: SETBACK REQUIRED: SETBACK PROVIDED: TREES REQUIRED: DECIDUOUS TREES PROVIDED: EVERGREEN TREES: TOTAL TREES:		631 LF 10 LF 10 21 TREES (1 PER 30 LF) 9 TREES 7 TREES (41%) 16 TREE CREDITS*	
PARKING LOT ISLANDS: NUMBER OF PARKING SPACES: TREES REQUIRED: TREES PROVIDED: PARKING LOT SCREENING:		82 6 TREES (1 PER 15 PARKING SPACES) 8 TREES PROVIDED	
INTERNAL LANDSCAPE: LANDSCAPE AREA REQUIRED: LANDSCAPE AREA PROVIDED: TREES REQUIRED: TREES PROVIDED: SHRUBS PROVIDED: LIVE GROUNDCOVER REQUIRED: LIVE GROUNDCOVER PROVIDED: TOTAL TREES:		19,557 SF (5%) 290,626 SF (74.3%) 39 TREES (1 TREE PER 500 SF) 27 TREES 255 SHRUBS (10 SHRUBS EQUALS 1 TREE) 5,887 SF (30%) 244,712 SF (1251.27%) 52 TREE CREDITS	
BUFFER LANDSCAPE: NORTH BUFFER: BUFFER WIDTH REQUIRED: BUFFER WIDTH PROVIDED: TREES REQUIRED: DECIDUOUS TREES PROVIDED: EVERGREEN TREES: TOTAL TREES: - BUFFER PROVIDED WITH A NEW 6-FT HT. OPAQUE WOOD FENCING.		631LF 15 LF 15 LF 25 TREES (1 PER 25 LF) 0 TREES 0 TREES 0 TREE CREDITS*	
EAST BUFFER: BUFFER WIDTH REQUIRED: BUFFER WIDTH PROVIDED: TREES REQUIRED: DECIDUOUS TREES PROVIDED: EVERGREEN TREES: TOTAL TREES:		620 LF 15 LF 15 LF 21 TREES (1 PER 30 LF) 0 TREES 0 TREES 0 TREE CREDIT*	
WEST BUFFER: BUFFER WIDTH REQUIRED: BUFFER WIDTH PROVIDED: TREES REQUIRED: DECIDUOUS TREES PROVIDED: EVERGREEN TREES: TOTAL TREES: - BUFFER PROVIDED WITH EXISTING AND NEW 6-FT HT. OPAQUE WOOD FENCING.		620 LF 15 LF 15 LF 25 TREES (1 PER 25 LF) 0 TREES 0 TREES 0 TREE CREDIT*	

* PROJECT IS ZONING EXEMPT.



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KENNETH D. BATES
1078
01/25/2014
Professional Seal
STATE OF COLORADO
RESIDED LANDSCAPE ARCHITECT
07/24/2026

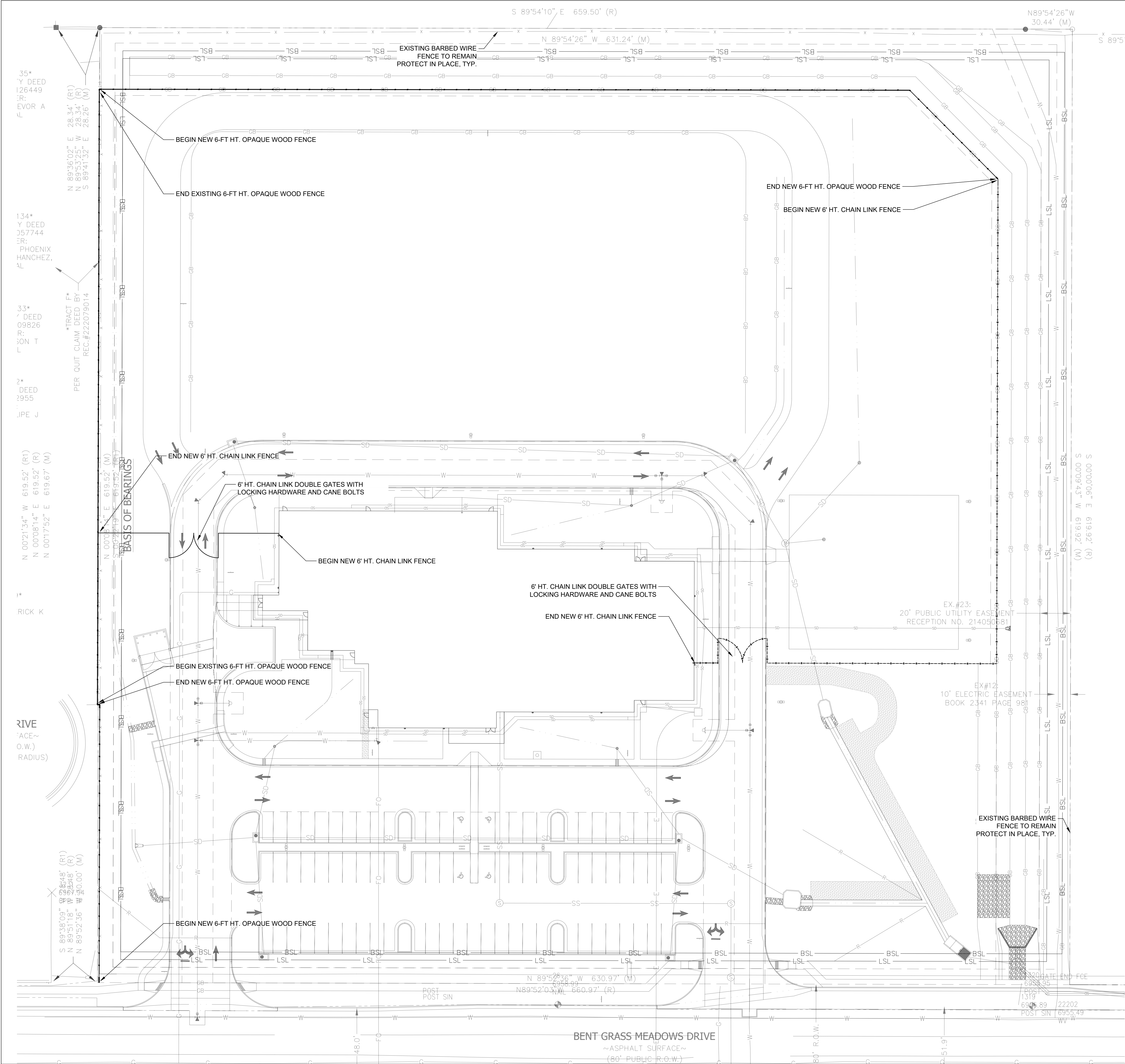
HONOR CHARTER
ACADEMY
BENT GRASS MEADOWS DRIVE
PEYTON, CO

SCHEMATIC
LANDSCAPE
PLANTING PLAN

Date	Comment

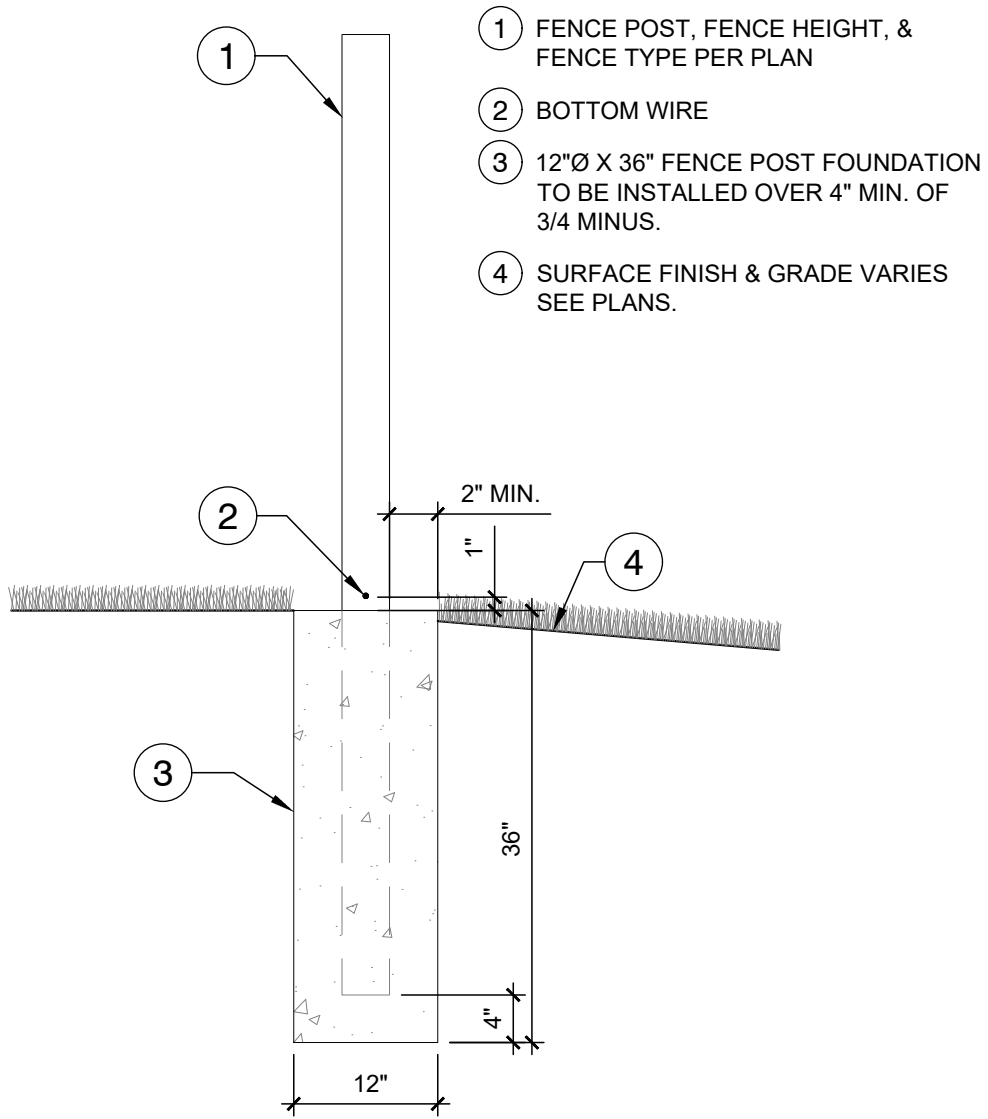
Project Number
Date 07/24/2026
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Checked By KB

LP-1



FENCING

FENCE TO BE 6 CHAIN LINK FENCE:
SCHEDULE 40 PIPE POWDER COATED BLACK, 1 5/8" Ø TOP RAIL AND BRACING, 2 3/8" Ø LINE POSTS, 2 7/8" Ø
CORNER AND TERMINAL POSTS, 4" Ø PM GATE LEAFS EXCEEDING 8' WIDE, 2" MESH CHAIN LINK FABRIC 9 GA. CORE
8 GA. FINISH FUSE BONDED BLACK, CORNER AND TERMINAL POST MID BRACING AND TRUSS ROD, 7 GA. BOTTOM
WIRE, WITH PRIVACY SLATS.



A FENCE POST FOUNDATION
NTS

000-HA-02

NORTH

0' 15' 30' 60'

Scale 1" = 30'

NOTE: PRINTED DRAWING SIZE
MAY HAVE CHANGED FROM
ORIGINAL. VERIFY SCALE USING
BAR SCALE ABOVE.

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07/24/2026

**HONOR CHARTER
ACADEMY**
BENT GRASS MEADOWS DRIVE
PEYTON, CO

SCHEMATIC
FENCING PLAN

Date Comment

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LP-2

PLANTING SPECIFICATIONS

- GENERAL
- A. QUALIFICATIONS OF LANDSCAPE CONTRACTOR
1. ALL LANDSCAPE WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE FIRM SPECIALIZING IN LANDSCAPE PLANTING.
 2. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
 3. THE LANDSCAPE CONTRACTOR SHALL HOLD A VALID CONTRACTOR'S LICENSE ISSUED BY THE APPROPRIATE LOCAL JURISDICTION.
- B. SCOPE OF WORK
1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND /OR SHOWN ON THE LANDSCAPE PLANS, NOTES, AND DETAILS.
 2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS.
 3. THE LANDSCAPE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK.
- PRODUCTS
- A. ALL MANUFACTURED PRODUCTS SHALL BE NEW.
- B. CONTAINER AND BALLED-AND-BURLAPPED PLANTS:
1. FURNISH NURSERY-GROWN PLANTS COMPLYING WITH ANSI Z60.1-2014. PROVIDE WELL-SHAPED, FULLY BRANCHED, HEALTHY, VIGOROUS STOCK FREE OF DISEASE, INSECTS, EGGS, LARVAE, AND DEFECTS SUCH AS KNOTS, SUN SCALD, INJURIES, ABRASIONS, AND DISFIGUREMENT. ALL PLANTS WITHIN A SPECIES SHALL HAVE SIMILAR BEING BE OF A FORM TYPE FOR THE SPECIES. ALL TREES SHALL BE OBTAINED FROM SOURCES WITHIN 200 MILES OF THE PROJECT SITE, AND WITH SIMILAR CLIMATIC CONDITIONS.
 2. ROOT SYSTEMS SHALL BE HEALTHY, DENSELY BRANCHED ROOT SYSTEMS, NON-POT-BOUND, FREE FROM ENCRUSTING AND/OR GIRDLING ROOTS, AND FREE FROM ANY OTHER ROOT DEFECTS (SUCH AS J-SHAPED ROOTS).
 3. TREES MAY BE PLANTED FROM CONTAINERS OR BALLED-AND-BURLAPPED (B&B), UNLESS SPECIFIED ON THE PLANTING LEGEND. BARE-ROOT TREES ARE NOT ACCEPTABLE.
 4. ANY PLANT DEEMED UNACCEPTABLE BY THE LANDSCAPE ARCHITECT OR OWNER SHALL BE IMMEDIATELY REMOVED FROM THE SITE AND SHALL BE REPLACED WITH AN ACCEPTABLE PLANT OF LIKE TYPE AND SIZE AT THE CONTRACTOR'S OWN EXPENSE. ANY PLANTS APPEARING TO BE UNHEALTHY, EVEN IF DETERMINED TO STILL BE ALIVE, SHALL NOT BE ACCEPTED. THE LANDSCAPE ARCHITECT AND OWNER SHALL BE THE SOLE JUDGES AS TO THE ACCEPTABILITY OF PLANT MATERIAL. ALL TREES SHALL BE STANDARD IN FORM, UNLESS OTHERWISE SPECIFIED. TREES WITH CENTRAL LEADERS WILL NOT BE ACCEPTED IF LEADER IS DAMAGED OR REMOVED. PRUNE ALL DAMAGED TWIGS AFTER PLANTING.
 6. CALIPER MEASUREMENTS FOR STANDARD (SINGLE TRUNK) TREES SHALL BE AS FOLLOWS: SIX INCHES ABOVE THE ROOT FLARE FOR TREES UP TO AND INCLUDING FOUR INCHES IN CALIPER, AND TWELVE INCHES ABOVE THE ROOT FLARE FOR TREES EXCEEDING FOUR INCHES IN CALIPER.
 7. MULTI-TRUNK TREES SHALL BE MEASURED BY THEIR OVERALL HEIGHT MEASURED FROM THE TOP OF THE ROOT BALL, WHERE CALIPER MEASUREMENTS ARE USED, THE CALIPER SHALL BE CALCULATED AS ONE-HALF OF THE SUM OF THE CALIPER OF THE THREE LARGEST TRUNKS.
 8. ANY TREE OR SHRUB SHOWN TO HAVE EXCESS SOIL PLACED ON TOP OF THE ROOT BALL, SO THAT THE ROOT FLARE HAS BEEN COMPLETELY COVERED, SHALL BE REJECTED.
 - C. SOD: PROVIDE WELL-ROOTED SOD OF THE VARIETY NOTED ON THE PLANS. SOD SHALL BE CUT FROM HEALTHY, MATURE TURF WITH SOIL THICKNESS OF 3/4" TO 1". EACH PALLET OF SOD SHALL BE ACCOMPANIED BY A CERTIFICATE FROM SUPPLIER STATING THE COMPOSITION OF THE SOD.
 - D. SEED: PROVIDE BLEND OF SPECIES AND VARIETIES AS NOTED ON THE PLANS, WITH MAXIMUM PERCENTAGES OF PURITY, GERMINATION, AND MINIMUM PERCENTAGE OF WEED SEED AS INDICATED ON PLANS. EACH BAG OF SEED SHALL BE ACCOMPANIED BY A TAG FROM THE SUPPLIER INDICATING THE COMPOSITION OF THE SEED.
 - E. TOPSOIL: SANDY TO CLAY LOAM TOPSOIL, FREE OF STONES LARGER THAN 1/4" INCH, FOREIGN MATTER, PLANTS, ROOTS, AND SEEDS.
 - F. COMPOST: WELL-COMPOSTED, STABLE, AND WEED-FREE ORGANIC MATTER, pH RANGE OF 5.5 TO 6.5, MOISTURE CONTENT 35 TO 55 PERCENT BY WEIGHT, PASSING THROUGH 3/4-INCH SIEVE; SOLUBLE SALT CONTENT OF 5 TO 10 DECISEMENS/M; NOT EXCEEDING 0.5 PERCENT INERT CONTAMINANTS AND FREE OF SUBSTANCES TOXIC TO PLANTINGS. NO MANURE OR ANIMAL-BASED PRODUCTS SHALL BE USED.
 - G. FERTILIZER: GRANULAR FERTILIZER CONSISTING OF NITROGEN, PHOSPHORUS, POTASSIUM, AND OTHER NUTRIENTS IN PROPORTIONS, AMOUNTS, AND RELEASE RATES RECOMMENDED IN A SOIL REPORT FROM A QUALIFIED SOIL TESTING AGENCY (SEE BELOW).
 - H. MULCH: SIZE AND TYPE AS INDICATED ON PLANS, FREE FROM DELETERIOUS MATERIALS AND SUITABLE AS A TOP DRESSING OF TREES AND SHRUBS.
 - I. TREE STAKING AND GUYING:
 1. STAKES: 6" LONG GREEN METAL T-POSTS.
 2. GUY AND TIE WIRE: ASTM A 641, CLASS 1, GALVANIZED-STEEL WIRE, 2-STRAND, TWISTED, 0.106 INCH DIAMETER.
 3. STRAP CHAFING GUARD: REINFORCED NYLON OR CANVAS AT LEAST 1-1/2 INCH WIDE, WITH GROMMETS TO PROTECT TREE TRUNKS FROM DAMAGE.
 - L. STEEL EDGING: PROFESSIONAL, STEEL EDGING, 14 GAUGE THICK X 4 INCHES WIDE, FACTORY PAINTED DARK GREEN, ACCEPTABLE MANUFACTURERS INCLUDE COI-MET OR APPROVED EQUAL.
 - M. PRE-EMERGENT HERBICIDES: ANY GRANULAR, NON-STAINING PRE-EMERGENT HERBICIDE THAT IS LABELED FOR THE SPECIFIC ORNAMENTALS OR TURF ON WHICH IT WILL BE UTILIZED. PRE-EMERGENT HERBICIDES SHALL BE APPLIED PER THE MANUFACTURER'S LABEL RATES.

METHODS

- A. SOIL PREPARATION
1. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE GRADE OF ALL LANDSCAPE AREAS ARE WITHIN +0.1' OF FINISH GRADE. THE CONTRACTOR SHALL NOTIFY THE OWNER IMMEDIATELY SHOULD ANY DISCREPANCIES EXIST.
 2. SOIL TESTING:
 - a. AFTER FINISH GRADES HAVE BEEN ESTABLISHED, CONTRACTOR SHALL HAVE SOIL SAMPLES FROM THE PROJECT'S LANDSCAPE AREAS TESTED BY AN ESTABLISHED SOIL TESTING LABORATORY. EACH SAMPLE SUBMITTED TO THE LAB SHALL CONTAIN NO LESS THAN ONE QUART OF SOIL TAKEN FROM BETWEEN THE SOIL SURFACE AND 6" DEPTH. IF NO SAMPLE LOCATIONS ARE INDICATED ON THE PLANS, THE CONTRACTOR SHALL TAKE A MINIMUM OF THREE SAMPLES FROM VARIOUS REPRESENTATIVE LOCATIONS FOR TESTING.
 - b. THE CONTRACTOR SHALL HAVE THE SOIL TESTING LABORATORY PROVIDE RESULTS FOR THE FOLLOWING: SOIL TEXTURAL CLASS, GENERAL SOIL FERTILITY, pH, ORGANIC MATTER CONTENT, SALT (EC), LIME, SODIUM ADSORPTION RATIO (SAR) AND BORON CONTENT.
 - c. THE CONTRACTOR SHALL ALSO SUBMIT THE PROJECT'S PLANT LIST TO THE LABORATORY ALONG WITH THE SOIL SAMPLES.
 - d. THE SOIL REPORT PRODUCED BY THE LABORATORY SHALL CONTAIN RECOMMENDATIONS FOR THE FOLLOWING (AS APPROPRIATE): SEPARATE SOIL PREPARATION AND BACKFILL MIX RECOMMENDATIONS FOR GENERAL ORNAMENTAL PLANTS, XERIC PLANTS, TURF, AND NATIVE SEED, AS WELL AS PRE-PLANT FERTILIZER APPLICATIONS AND RECOMMENDATIONS FOR OTHER SOIL RELATED ISSUES. THE REPORT SHALL ALSO PROVIDE A FERTILIZER PROGRAM FOR THE ESTABLISHMENT PERIOD AND FOR LONG-TERM MAINTENANCE.
 3. THE CONTRACTOR SHALL INSTALL SOIL AMENDMENTS AND FERTILIZERS PER THE SOILS REPORT RECOMMENDATIONS. ANY CHANGE IN COST DUE TO THE SOIL REPORT RECOMMENDATIONS, EITHER INCREASE OR DECREASE, SHALL BE SUBMITTED TO THE OWNER WITH THE REPORT.
 4. FOR BIDDING PURPOSES ONLY, THE SOIL PREPARATION SHALL CONSIST OF THE FOLLOWING:
 - a. TURF: INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 6" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - ii. PREPLANT TURF FERTILIZER (10-20-10 OR SIMILAR, SLOW RELEASE, ORGANIC) - 15 LBS PER 1,000 S.F.
 - iii. "CLAY BUSTER" OR 1/2" LANDSCAPERS COMPOST - USE MANUFACTURER'S RECOMMENDED RATE FOR TREES, SHRUBS, AND PERENNIALS. INCORPORATE THE FOLLOWING AMENDMENTS INTO THE TOP 8" OF SOIL BY MEANS OF ROTOTILLING AFTER CROSS-RIPPING:
 - i. NITROGEN STABILIZED ORGANIC AMENDMENT - 4 CU. YDS. PER 1,000 S.F.
 - ii. 12-12-12 FERTILIZER (OR SIMILAR, ORGANIC, SLOW RELEASE) - 10 LBS. PER CU. YD.
 - iii. "CLAY BUSTER" OR 1/2" LANDSCAPERS COMPOST - USE MANUFACTURER'S RECOMMENDED RATE
 - iv. IRON SULPHATE - 2 LBS. PER CU. YD.
 5. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
 - a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
 - b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
 6. ONCE SOIL PREPARATION IS COMPLETE, THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT THERE ARE NO DEBRIS, TRASH, OR STONES LARGER THAN 1" REMAINING IN THE TOP 6" OF SOIL.

- B. SUBMITTALS
1. THE CONTRACTOR SHALL PROVIDE SUBMITTALS AND SAMPLES, IF REQUIRED, TO THE LANDSCAPE ARCHITECT, AND RECEIVE APPROVAL IN WRITING FOR SUCH SUBMITTALS BEFORE WORK COMMENCES.
 2. SUBMITTALS SHALL INCLUDE PHOTOS OF PLANTS WITH A RULER OR MEASURING STICK FOR SCALE, PHOTOS OR SAMPLES OF ANY REQUIRED MULCHES, AND SOIL TEST RESULTS AND PREPARATION RECOMMENDATIONS FROM THE TESTING LAB (INCLUDING COMPOST AND FERTILIZER RATES AND TYPES, AND OTHER AMENDMENTS FOR TREE/SHRUB, TURF, AND SEED AREAS AS MAY BE APPROPRIATE).
 3. SUBMITTALS SHALL ALSO INCLUDE MANUFACTURER CUT SHEETS FOR PLANTING ACCESSORIES SUCH AS TREE STAKES AND TIES, EDGING, AND LANDSCAPE FABRIC (IF ANY).
 4. WHERE MULTIPLE ITEMS ARE SHOWN ON A PAGE, THE CONTRACTOR SHALL CLEARLY INDICATE THE ITEM BEING CONSIDERED.
- C. GENERAL PLANTING
1. REMOVE ALL NURSERY TAGS AND STAKES FROM PLANTS.
 2. EXCEPT IN AREAS TO BE PLANTED WITH ORNAMENTAL GRASSES, APPLY PRE-EMERGENT HERBICIDES AT THE MANUFACTURER'S RECOMMENDED RATE.
 3. TRENCING NEAR EXISTING TREES:
 - a. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE A POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1" FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
 - b. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCHING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
 - c. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER, WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSURE ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
 - d. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALER OR WOUND PAINTS UNLESS LOCAL JURISDICTION REQUIRES OR ON TREES LOCATED IN CRZ WILT-SUSCEPTIBLE AREAS.
- D. TREE PLANTING
1. TREE PLANTING HOLES SHALL BE EXCAVATED TO MINIMUM WIDTH OF TWO TIMES THE WIDTH OF THE ROOTBALL, AND TO A DEPTH EQUAL TO THE DEPTH OF THE ROOTBALL, LESS TWO TO FOUR INCHES. SCARIFY THE SIDES AND BOTTOM OF THE PLANTING HOLE PRIOR TO THE PLACEMENT OF THE TREE. REMOVE ANY GLAZING THAT MAY HAVE BEEN CAUSED DURING THE EXCAVATION OF THE HOLE.
 2. FOR CONTAINER AND BOX TREES, TO REMOVE ANY POTENTIALLY GIRDLING ROOTS AND OTHER ROOT DEFECTS, THE CONTRACTOR SHALL SHAVE A 1" LAYER OFF OF THE SIDES AND BOTTOM OF THE ROOTBALL, OF ALL TREES JUST BEFORE PLACING INTO THE PLANTING PIT. DO NOT "TEASE" ROOTS OUT FROM THE ROOTBALL.
 4. INSTALL THE TREE ON UNDISTURBED SUBGRADE SO THAT THE TOP OF THE ROOTBALL IS TWO TO FOUR INCHES ABOVE THE SURROUNDING GRADE.
 5. BACKFILL THE TREE HOLE UTILIZING THE EXISTING TOPSOIL, FROM ON-SITE. ROCKS LARGER THAN 1" DIA. AND ALL OTHER DEBRIS SHALL BE REMOVED FROM THE SOIL PRIOR TO THE BACKFILL. SHOULD ADDITIONAL SOIL BE REQUIRED TO ACCOMPLISH THIS TASK, USE STORED TOPSOIL, FROM ON-SITE OR IMPORT ADDITIONAL TOPSOIL FROM OFF-SITE AT NO ADDITIONAL COST TO THE OWNER. IMPORTED TOPSOIL SHALL BE OF SIMILAR TEXTURAL CLASS AND COMPOSITION IN THE ON-SITE SOIL.
 6. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS (SUCH AS HEAVY WINDS OR SLOPES) REQUIRE STAKES TO KEEP TREES UPRIGHT. SHOULD STAKING BE REQUIRED, THE TOTAL NUMBER OF TREE STAKES (BEYOND THE MINIMUMS LISTED BELOW) WILL BE LEFT TO THE LANDSCAPE CONTRACTOR'S DISCRETION. SHOULD ANY TREES FALL OR LEAN, THE LANDSCAPE CONTRACTOR SHALL STRAIGHTEN THE TREE, OR REPLACE IT SHOULD IT BECOME DAMAGED. TREE STAKING SHALL ADHERE TO THE FOLLOWING GUIDELINES:
 - a. 1-1/2" TREES TWO STAKES PER TREE
 - b. 2-1/2" - 4" TREES THREE STAKES PER TREE
 - c. TREES OVER 4" CALIPER GUY AS NEEDED
 - d. MULTI-TRUNK TREES THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
 - e. #15 CONT. - 24" BOX TREES TWO STAKES PER TREE
 - f. 36"-48" BOX TREES THREE STAKES PER TREE
 - g. OVER 48" BOX TREES GUY AS NEEDED
 - h. MULTI-TRUNK TREES THREE STAKES PER TREE MINIMUM, QUANTITY AND POSITIONS AS NEEDED TO STABILIZE THE TREE
 7. UPON COMPLETION OF PLANTING, CONSTRUCT AN EARTH WATERING BASIN AROUND THE TREE, COVER THE INTERIOR OF THE TREE RING WITH THE WEED BARRIER CLOTH AND TOPDRESS WITH MULCH (TYPE AND DEPTH PER PLANS).
- E. SHRUB, PERENNIAL, AND GROUNDCOVER PLANTING
1. DIG THE PLANTING HOLES TWICE AS WIDE AND 2" LESS DEEP THAN EACH PLANT'S ROOTBALL. INSTALL THE PLANT IN THE HOLE. BACKFILL AROUND THE PLANT WITH SOIL AMENDED PER SOIL TEST RECOMMENDATIONS.
 2. INSTALL THE WEED BARRIER CLOTH, OVERLAPPING IT AT THE ENDS. UTILIZE STEEL STAPLES TO KEEP THE WEED BARRIER CLOTH IN PLACE.
 3. WHEN PLANTING IS COMPLETE, INSTALL MULCH (TYPE AND DEPTH PER PLANS) OVER ALL PLANTING BEDS, COVERING THE ENTIRE PLANTING AREA.
- F. SODDING
1. SOD VARIETY TO BE AS SPECIFIED ON THE LANDSCAPE PLAN.
 2. LAY SOD WITHIN 24 HOURS FROM THE TIME OF STRIPPING. DO NOT LAY IF THE GROUND IS FROZEN.
 3. LAY THE SOD TO FORM A SOLID MASS WITH TIGHTLY FITTED JOINTS, BUTT ENDS AND SIDES OF SOD STRIPS. DO NOT OVERLAP. STAGGER STRIPS TO OFFSET JOINTS IN ADJACENT COURSES.
 4. ROLL THE SOD TO ENSURE GOOD CONTACT OF THE SOD'S ROOT SYSTEM WITH THE SOIL UNDERNEATH.
 5. WATER THE SOD THOROUGHLY WITH A FINE SPRAY IMMEDIATELY AFTER PLANTING TO OBTAIN AT LEAST SIX INCHES OF PENETRATION INTO THE SOIL BELOW THE SOD.
- G. HYDROMULCHING
1. TURF HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - a. WINTER MIX (OCTOBER 1 - MARCH 31)
 - 50# CELLULOSE FIBER MULCH
 - 2# UNHULLED BERMUDA SEED
 - 2# ANNUAL RYE SEED
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - b. SUMMER MIX (APRIL 1 - SEPTEMBER 30)
 - 50# CELLULOSE FIBER MULCH
 - 2# HULLED BERMUDA SEED
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER
 2. SEED HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - a. GENERAL
 - 50# CELLULOSE FIBER MULCH
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - SEED RATE PER LEGEND
- H. DRILL SEEDING
1. ALL SEED SHALL BE DRILL SEEDED AT THE RATES SHOWN ON THE PLANS, WITH A HYDROMULCH MIX APPLIED AFTER SEEDING.
 2. THE HYDROMULCH MIX (PER 1,000 SF) SHALL BE AS FOLLOWS:
 - a. 50# CELLULOSE FIBER MULCH
 - 15# 15-15-15 WATER SOLUBLE FERTILIZER
 - 4# ORGANIC BINDER
- H. MULCH
1. INSTALL MULCH TOPDRESSING, TYPE AND DEPTH PER MULCH NOTE, IN ALL PLANTING AREAS AND TREE RINGS.
 2. DO NOT INSTALL MULCH WITHIN 6" OF TREE ROOT FLARE AND WITHIN 24" OF HABITABLE STRUCTURES, EXCEPT AS MAY BE NOTED ON THESE PLANS. MULCH COVER WITHIN 6" OF CONCRETE WALKS AND CURBS SHALL NOT PROTRUDE ABOVE THE FINISH SURFACE OF THE WALKS AND CURBS. MULCH COVER WITHIN 12" OF WALLS SHALL BE AT LEAST 3" LOWER THAN THE TOP OF WALL.
- I. CLEAN UP
1. DURING LANDSCAPE PREPARATION AND PLANTING, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
 2. LEGALLY DISPOSE ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- J. INSPECTION AND ACCEPTANCE
1. UPON COMPLETION OF THE WORK, THE LANDSCAPE CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE LANDSCAPE CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
 2. WHEN THE INSPECTED PLANTING WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE LANDSCAPE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNER'S SATISFACTION WITHIN 24 HOURS.
 3. THE LANDSCAPE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE LANDSCAPE WORK HAS BEEN REINSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
- K. LANDSCAPE MAINTENANCE
1. THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE OF ALL WORK SHOWN ON THESE PLANS FOR 90 DAYS BEYOND FINAL ACCEPTANCE OF ALL LANDSCAPE WORK BY THE OWNER. LANDSCAPE MAINTENANCE SHALL INCLUDE WEEKLY SITE VISITS FOR THE FOLLOWING ACTIONS (AS APPROPRIATE): PROPER PRUNING, RESTAKING OF TREES, RESETTling OF PLANTS THAT HAVE SETTLED, MOVING AND AERATION OF LAWNS, WEEDING, RESEEDING AREAS WHICH HAVE NOT GERMINATED WELL, TREATING FOR INSECTS AND DISEASES, REPLACEMENT OF MULCH, REMOVAL OF LITTER, REPAIRS TO THE IRRIGATION SYSTEM DUE TO FAULTY PARTS AND/OR WORKMANSHIP, AND THE APPROPRIATE WATERING OF ALL PLANTINGS. THE LANDSCAPE CONTRACTOR SHALL MAINTAIN THE IRRIGATION SYSTEM IN PROPER WORKING ORDER, WITH SCHEDULING ADJUSTMENTS BY SEASON TO MAXIMIZE WATER CONSERVATION.
 2. SHOULD SEEDED AND/OR SODDED AREAS NOT BE COVERED BY AN AUTOMATIC IRRIGATION SYSTEM, THE LANDSCAPE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING THESE AREAS AND OBTAINING A FULL, HEALTHY STAND OF PLANTS AT NO ADDITIONAL COST TO THE OWNER.
 3. TO ACHIEVE FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD, ALL OF THE FOLLOWING CONDITIONS MUST OCCUR:
 - a. THE LANDSCAPE SHALL SHOW ACTIVE, HEALTHY GROWTH (WITH EXCEPTIONS MADE FOR SEASONAL DORMANCY). ALL PLANTS NOT MEETING THIS CONDITION SHALL BE REJECTED AND REPLACED BY HEALTHY PLANT MATERIAL PRIOR TO FINAL ACCEPTANCE.
 - b. ALL HARDSCAPE SHALL BE CLEANED PRIOR TO FINAL ACCEPTANCE.
 - c. SODDED AREAS MUST BE ACTIVELY GROWING AND MUST REACH A MINIMUM HEIGHT OF 1-1/2 INCHES BEFORE FIRST MOWING. HYDROMULCHED AREAS SHALL SHOW ACTIVE, HEALTHY GROWTH. BARE AREAS LARGER THAN TWELVE SQUARE INCHES MUST BE RESEEDD OR RESEEDED (AS APPROPRIATE) PRIOR TO FINAL ACCEPTANCE. ALL SODDED TURF SHALL BE NEATLY MOVED.
- L. WARRANTY PERIOD, PLANT GUARANTEE AND REPLACEMENTS
1. THE LANDSCAPE CONTRACTOR SHALL GUARANTEE ALL TREES, SHRUBS, PERENNIALS, SOD, SEEDS, AND HYDROMULCHED AND IRRIGATION SYSTEMS FOR A PERIOD OF ONE YEAR FROM THE DATE OF THE OWNER'S FINAL ACCEPTANCE (90 DAYS FOR ANNUAL PLANTS). THE CONTRACTOR SHALL REPLACE, AT HIS OWN EXPENSE AND TO THE SATISFACTION OF THE OWNER, ANY PLANTS WHICH DIE IN THAT TIME, OR REPAIR ANY PORTION OF THE IRRIGATION SYSTEM WHICH OPERATES IMPROPERLY.
 2. AFTER THE INITIAL MAINTENANCE PERIOD AND DURING THE GUARANTEE PERIOD, THE LANDSCAPE CONTRACTOR SHALL ONLY BE RESPONSIBLE FOR REPLACEMENT OF PLANTS WHEN PLANT DEATH CANNOT BE ATTRIBUTED DIRECTLY TO OVERWATERING OR OTHER DAMAGE BY HUMAN ACTIONS.
- M. PROVIDE A MINIMUM OF (2) COPIES OF RECORD DRAWINGS TO THE OWNER UPON COMPLETION OF WORK. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.

GENERAL GRADING AND PLANTING NOTES

1. BY SUBMITTING A PROPOSAL FOR THE LANDSCAPE PLANTING SCOPE OF WORK, THE CONTRACTOR CONFIRMS THAT HE HAS READ, AND WILL COMPLY WITH, THE ASSOCIATED NOTES, SPECIFICATIONS, AND DETAILS WITH THIS PROJECT.
2. THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING ALL EXISTING VEGETATION (EXCEPT WHERE NOTED TO REMAIN).
3. IN THE CONTEXT OF THESE PLANS, NOTES, AND SPECIFICATIONS, "FINISH GRADE" REFERS TO THE FINAL ELEVATION OF THE SOIL SURFACE (NOT TOP OF MULCH) AS INDICATED ON THE GRADING PLANS.
 - a. BEFORE STARTING WORK, THE LANDSCAPE CONTRACTOR SHALL VERIFY THAT THE ROUGH GRADES OF ALL LANDSCAPE AREAS ARE WITHIN +0.1' OF FINISH GRADE. SEE SPECIFICATIONS FOR MORE DETAILED INSTRUCTION ON TURF AREA AND PLANTING BED PREPARATION.
 - b. CONSTRUCT AND MAINTAIN FINISH GRADES AS SHOWN ON GRADING PLANS, AND CONSTRUCT AND MAINTAIN SLOPES AS RECOMMENDED BY THE GEOTECHNICAL REPORT. ALL LANDSCAPE AREAS SHALL HAVE POSITIVE DRAINAGE AWAY FROM STRUCTURES AT THE MINIMUM SLOPE SPECIFIED IN THE REPORT AND ON THE GRADING PLANS, AND AREAS OF POTENTIAL PONDING SHALL BE REGRADED TO BLEND IN WITH THE SURROUNDING GRADES AND ELIMINATE PONDING POTENTIAL.
 - c. THE LANDSCAPE CONTRACTOR SHALL DETERMINE WHETHER OR NOT THE EXPORT OF ANY SOIL WILL BE NEEDED, TAKING INTO ACCOUNT THE ROUGH GRADE PROVIDED, THE AMOUNT OF SOIL AMENDMENTS TO BE ADDED (BASED ON A SOIL TEST, PER SPECIFICATIONS), AND THE FINISH GRADES TO BE ESTABLISHED.
 - d. ENSURE THAT THE FINISH GRADE IN SHRUB AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 3" BELOW THE ADJACENT FINISH SURFACE, IN ORDER TO ALLOW FOR PROPER MULCH DEPTH. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - e. ENSURE THAT THE FINISH GRADE IN TURF AREAS IMMEDIATELY ADJACENT TO WALKS AND OTHER WALKING SURFACES, AFTER INSTALLING SOIL AMENDMENTS, IS 1" BELOW THE FINISH SURFACE OF THE WALKS. TAPER THE SOIL SURFACE TO MEET FINISH GRADE, AS SPECIFIED ON THE GRADING PLANS, AT APPROXIMATELY 18" AWAY FROM THE WALKS.
 - f. SHOULD ANY CONFLICTS AND/OR DISCREPANCIES ARISE BETWEEN THE GRADING PLANS, GEOTECHNICAL REPORT, THESE NOTES AND PLANS, AND ACTUAL CONDITIONS, THE CONTRACTOR SHALL IMMEDIATELY BRING SUCH ITEMS TO THE ATTENTION OF THE LANDSCAPE ARCHITECT, GENERAL CONTRACTOR, AND OWNER.
4. ALL PLANT LOCATIONS ARE DIAGRAMMATIC. ACTUAL LOCATIONS SHALL BE VERIFIED WITH THE LANDSCAPE ARCHITECT OR DESIGNER PRIOR TO PLANTING. THE LANDSCAPE CONTRACTOR SHALL ENSURE THAT ALL REQUIREMENTS OF THE PERMITTING AUTHORITY ARE MET (I.E. MINIMUM PLANT QUANTITIES, PLANTING METHODS, TREE PROTECTION METHODS, ETC.).
5. THE LANDSCAPE CONTRACTOR IS RESPONSIBLE FOR DETERMINING PLANT QUANTITIES, PLANT QUANTITIES SHOWN ON LEGENDS AND CALLOUTS ARE FOR GENERAL INFORMATION ONLY. IN THE EVENT OF A DISCREPANCY BETWEEN THE PLAN AND THE PLANT LEGEND, THE PLANT QUANTITY AS SHOWN ON THE PLAN (FOR INDIVIDUAL SYMBOLS) OR CALLOUT (FOR GROUNDCOVER PATTERNS) SHALL TAKE PRECEDENCE.
6. NO SUBSTITUTIONS OF PLANT MATERIALS SHALL BE ALLOWED WITHOUT THE WRITTEN PERMISSION OF THE LANDSCAPE ARCHITECT. IF SOME OF THE PLANTS ARE NOT AVAILABLE, THE LANDSCAPE CONTRACTOR SHALL NOTIFY THE LANDSCAPE ARCHITECT IN WRITING (VIA PROPER CHANNELS).
7. THE CONTRACTOR SHALL, AT A MINIMUM, PROVIDE REPRESENTATIVE PHOTOS OF ALL PLANTS PROPOSED FOR THE PROJECT. THE CONTRACTOR SHALL ALLOW THE LANDSCAPE ARCHITECT AND THE OWNER/OWNER'S REPRESENTATIVE TO INSPECT, AND APPROVE OR REJECT, ALL PLANTS DELIVERED TO THE JOBSITE. REFER TO SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS FOR SUBMITTALS.
8. CONTRACTOR SHALL PROVIDE AND INSTALL SOLID SOD IN ALL RIGHT-OF-WAYS AND PARKWAYS (UNLESS NOT ALLOWED BY THE LOCAL JURISDICTION) AND SHALL PROVIDE WATERING AND MAINTENANCE UNTIL THE TURF IS ESTABLISHED AND HAS BEEN ACCEPTED BY OWNER.
9. THE CONTRACTOR SHALL MAINTAIN THE LANDSCAPE IN A HEALTHY CONDITION FOR 90 DAYS AFTER ACCEPTANCE BY THE OWNER. REFER TO SPECIFICATIONS FOR CONDITIONS OF ACCEPTANCE FOR THE START OF THE MAINTENANCE PERIOD, AND FOR FINAL ACCEPTANCE AT THE END OF THE MAINTENANCE PERIOD.
10. SEE SPECIFICATIONS AND DETAILS FOR FURTHER REQUIREMENTS.

IRRIGATION CONCEPT

1. AN AUTOMATIC IRRIGATION SYSTEM SHALL BE INSTALLED AND OPERATIONAL BY THE TIME OF FINAL INSPECTION. THE ENTIRE IRRIGATION SYSTEM SHALL BE INSTALLED BY A LICENSED AND QUALIFIED IRRIGATION CONTRACTOR.
2. THE IRRIGATION SYSTEM WILL OPERATE ON POTABLE WATER, AND THE SYSTEM WILL HAVE APPROPRIATE BACKFLOW PREVENTION DEVICES INSTALLED TO PREVENT CONTAMINATION OF THE POTABLE SOURCE.
3. ALL NON-TURF PLANTED AREAS SHALL BE DRIP IRRIGATED. SODDED AND SEEDDED AREAS SHALL BE IRRIGATED WITH SPRAY OR ROTOR HEADS AT 100% HEAD-TO-HEAD COVERAGE.
4. ALL PLANTS SHARING SIMILAR HYDROZONE CHARACTERISTICS SHALL BE PLACED ON A VALVE DEDICATED TO PROVIDE THE NECESSARY WATER REQUIREMENTS SPECIFIC TO THAT HYDROZONE.
5. THE IRRIGATION SYSTEM SHALL BE DESIGNED AND INSTALLED, TO THE MAXIMUM EXTENT POSSIBLE, TO CONSERVE WATER BY USING THE FOLLOWING DEVICES AND SYSTEMS: MATCHED PRECIPITATION RATE TECHNOLOGY ON ROTOR AND SPRAY HEADS (WHEREVER POSSIBLE), RAIN SENSORS, AND MULTI-PROGRAM COMPUTERIZED IRRIGATION CONTROLLERS FEATURING SENSORY INPUT CAPABILITIES.

ROOT BARRIERS

THE CONTRACTOR SHALL INSTALL ROOT BARRIERS NEAR ALL NEWLY PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING, CURBS, WATER, STORM, OR SANITARY SEWER UTILITIES. ROOT BARRIERS SHALL BE "CENTURY" OR "DEEP-ROOT" 24" DEEP PANELS (OR EQUAL). BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. INSTALL PANELS PER MANUFACTURER'S RECOMMENDATIONS. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCLOSE THE ROOTBALL.

MULCHES

AFTER ALL PLANTING IS COMPLETE, CONTRACTOR SHALL INSTALL 2" THICK LAYER OF 1-1/2" SHREDDED WOOD MULCH, NATURAL (UNDYED), OVER LANDSCAPE FABRIC IN ALL PLANTING AREAS (EXCEPT FOR TURF AND SEEDDED AREAS). CONTRACTOR SHALL SUBMIT PHOTOS OF ALL MULCHES TO LANDSCAPE ARCHITECT AND OWNER FOR APPROVAL PRIOR TO CONSTRUCTION. ABSOLUTELY NO EXPOSED GROUND SHALL BE LEFT SHOWING ANYWHERE ON THE PROJECT AFTER MULCH HAS BEEN INSTALLED (SUBJECT TO THE CONDITIONS AND REQUIREMENTS OF THE "GENERAL GRADING AND PLANTING NOTES" AND SPECIFICATIONS).

PLANTING & IRRIGATION GUARANTEE

THE LANDSCAPE CONTRACTOR SHALL GUARANTEE THAT ALL NEWLY INSTALLED AND EXISTING PLANTS SHALL SURVIVE FOR ONE YEAR AFTER FINAL OWNER ACCEPTANCE OF THE INSTALLATION WORK. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR APPROPRIATE WATERING OF THE LANDSCAPE THROUGH INSTALLATION OF A PROPERLY DESIGNED IRRIGATION SYSTEM. THE OWNER SHALL APPROVE THE SYSTEM DESIGN BEFORE INSTALLATION OF PLANTS OR IRRIGATION.

National Presence. Local Expertise.



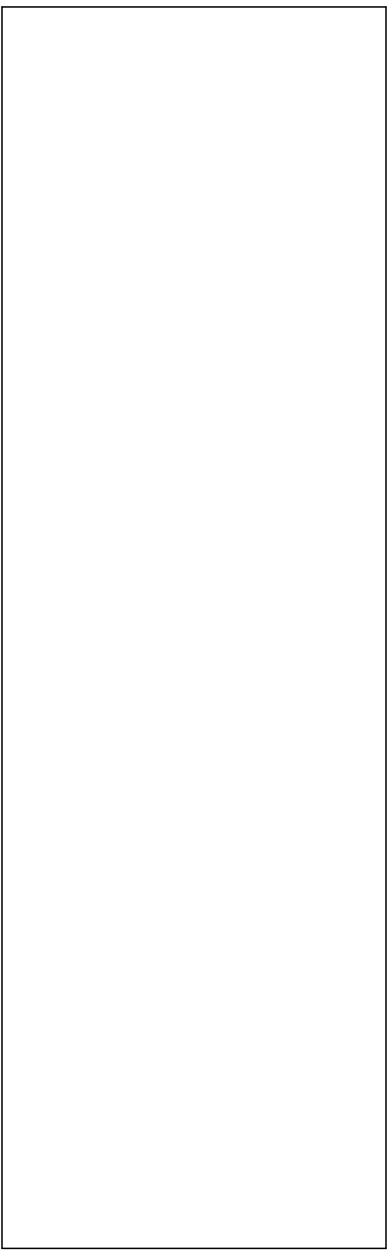
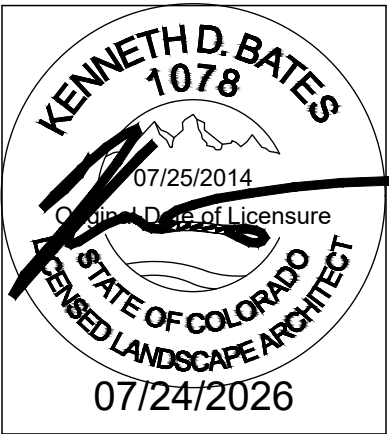
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LANDSCAPE ARCHITECTURE
LAND PLANNING IRRIGATION DESIGN



HONOR CHARTER
ACADEMY
BENT GRASS MEADOWS DRIVE
PEYTON, CO

LANDSCAPE NOTES & SPECIFICATIONS

Date	Comment
Project Number	
Date	07/24/2026
Drawn By	JML
Checked By	KB



HONOR CHARTER
ACADEMY
BENT GRASS MEADOWS DRIVE
PEYTON, CO

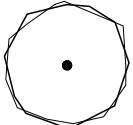
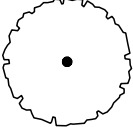
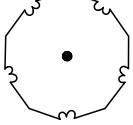
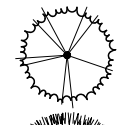
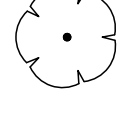
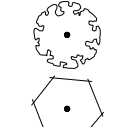
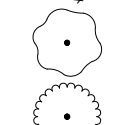
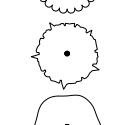
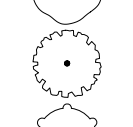
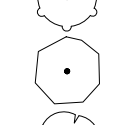
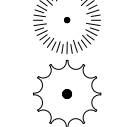
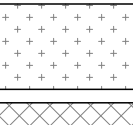
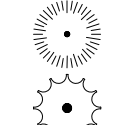
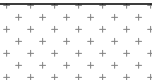
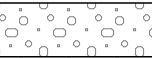
LANDSCAPE
SCHEDULE

Date	Comment

Project Number	
Date	07/24/2026
Drawn By	JML
Checked By	KB

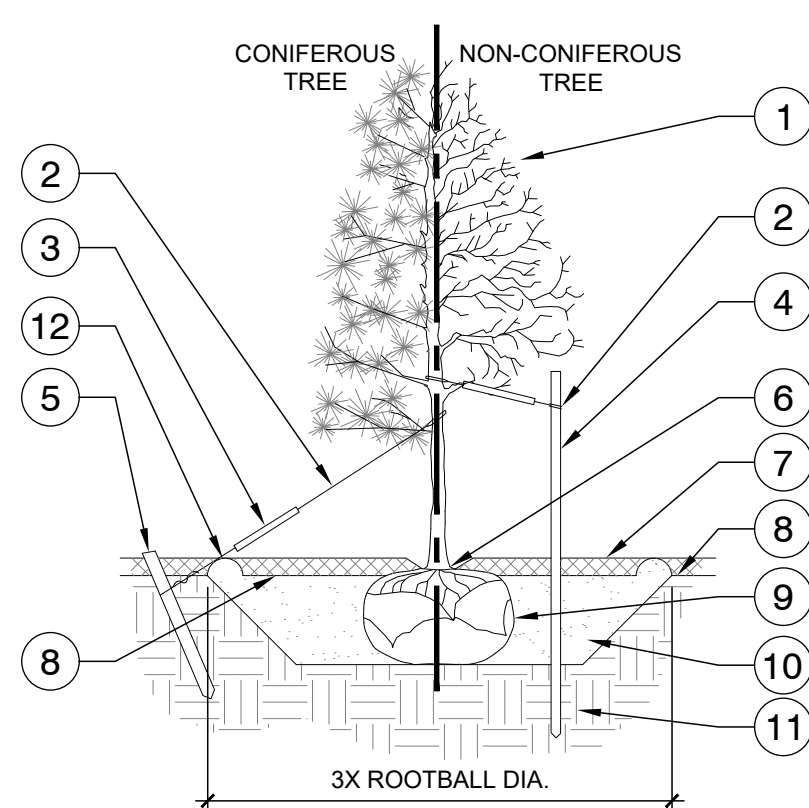
LP-4

PLANT SCHEDULE

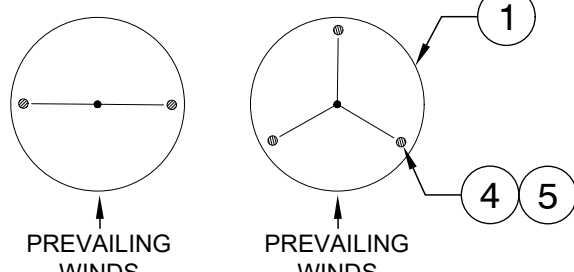
SYMBOL	CODE	BOTANICAL / COMMON NAME	SIZE	CONTAINER	QTY	MATURE HEIGHT	MATURE WIDTH
DECIDUOUS TREES							
	AT	Acer tataricum / Tatarian Maple	1.5" Cal.	Cont. or B&B	5	15 - 25ft. ht.	15 - 25ft. w.
	CS	Catalpa speciosa / Northern Catalpa	1.5" Cal.	Cont. or B&B	3	40 - 65ft. ht.	25 - 40ft. w.
	GS	Gleditsia triacanthos inermis 'Shademaster' / Shademaster Honey Locust	1.5" Cal.	Cont. or B&B	9	40 - 65ft. ht.	25 - 40ft. w.
EVERGREEN TREES							
	PF	Pinus flexilis 'Vanderwolf's Pyramid' / Vanderwolf's Pyramid Limber Pine	6' Ht.	Cont. or B&B	6	25 - 40ft. ht.	10 - 15ft. w.
	PP2	Pinus ponderosa / Ponderosa Pine	6' Ht.	Cont. or B&B	1	> 65ft. ht.	25 - 40ft. w.
ORNAMENTAL TREES							
	CC	Crataegus laevigata 'Crimson Cloud' / Crimson Cloud Hawthorn	1" Cal.	Cont. or B&B	2	15 - 25ft. ht.	15 - 25ft. w.
SHRUBS							
	AC	Arctostaphylos x coloradensis 'Chieftain' / Chieftain Mock Bearberry Manzanita	5 gal.	Cont.	14	3 - 6ft. ht.	3 - 6ft. w.
	CD	Caryopteris x clandonensis 'Dark Knight' / Dark Knight Bluebeard	5 gal.	Cont.	34	18 - 36in. ht.	1 - 3ft. w.
	CI	Cercocarpus intricatus / Littleleaf Mountain Mahogany	5 gal.	Cont.	5	3 - 6ft. ht.	3 - 6ft. w.
	CP	Cytisus purgans / Broom	5 gal.	Cont.	42	3 - 6ft. ht.	3 - 6ft. w.
	EA	Ericameria nauseosa nauseosa / Baby Blue Rabbitbrush	5 gal.	Cont.	23	18 - 36in. ht.	1 - 3ft. w.
	MA	Mahonia aquifolium / Oregon Grape	5 gal.	Cont.	9	3 - 6ft. ht.	3 - 6ft. w.
	PA	Perovskia atriplicifolia / Russian Sage	5 gal.	Cont.	21	3 - 6ft. ht.	3 - 6ft. w.
	SV	Spiraea x vanhouttei / Vanhoutte Spirea	5 gal.	Cont.	5	3 - 1ft. ht.	3 - 1ft. w.
	VL	Viburnum lantana 'Mohican' / Mohican Wayfaring Tree	15 gal.	Cont.	1	6 - 10ft. ht.	6 - 10ft. w.
	WA	Weigela florida 'Alexandra' / Wine & Roses® Weigela	5 gal.	Cont.	5	3 - 6ft. ht.	3 - 6ft. w.
GRASSES							
	BB	Bouteloua gracilis 'Blonde Ambition' / Blonde Ambition Blue Grama	5 gal.		40	18 - 36in. ht.	1 - 3ft. w.
	NP	Nassella tenuissima 'Pony Tails' / Pony Tails Mexican Feather Grass	5 gal.		48	18 - 36in. ht.	1 - 3ft. w.
GROUND COVERS							
	BL	Buchloe dactyloides 'Legacy' / Legacy Buffalo Grass	Seed or Sod		17,700 sf	< - 1ft. ht.	
	BG2	Native Grass / El Paso Native Shotgun Grass Seed Mix application rate of 10lbs / acre for broadcast application or 5lbs / acre for drilled application.	seed		209,976 sf	18 - 36in. ht.	1 - 3ft. w.
	GR	Riparian Seed Mix	seed		15,030 sf		
ROCK/STONE							
	CS2	2"-4" Local Cobblestone			3,481 sf		
	CF	Crushed Granite			7,605 sf		

SITE AMENITY SCHEDULE

SYMBOL	CODE	DESCRIPTION	QTY
	1	3'-4' Granite Boulder	4



STAKING EXAMPLES (PLAN VIEW)

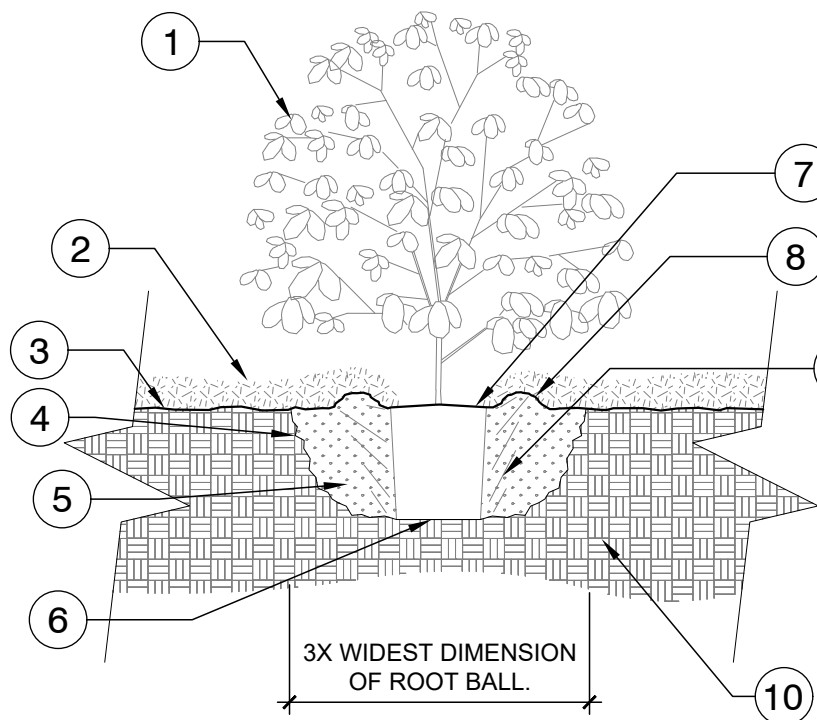


- NOTES:
1. SCARIFY SIDES OF PLANTING PIT PRIOR TO SETTING TREE.
 2. REMOVE EXCESS SOIL APPLIED ON TOP OF THE ROOTBALL THAT COVERS THE ROOT FLARE. THE PLANTING HOLE DEPTH SHALL BE SUCH THAT THE ROOTBALL RESTS ON UNDISTURBED SOIL, AND THE ROOT FLARE IS 2"-4" ABOVE FINISH GRADE.
 3. FOR B&B TREES, CUT OFF BOTTOM 1/3 OF WIRE BASKET BEFORE PLACING TREE IN HOLE. CUT OFF AND REMOVE REMAINDER OF BASKET AFTER TREE IS SET IN HOLE. REMOVE ALL NYLON TIES, TWINE, ROPE, AND OTHER PACKING MATERIAL. REMOVE AS MUCH BURLAP FROM AROUND ROOTBALL AS IS PRACTICAL.
 4. REMOVE ALL NURSERY STAKES AFTER PLANTING.
 5. TREES SHALL NOT BE STAKED UNLESS LOCAL CONDITIONS REQUIRE STAKES TO KEEP TREES UPRIGHT. STAKING SHALL BE TIGHT ENOUGH TO PREVENT TRUNK FROM BENDING, BUT LOOSE ENOUGH TO ALLOW SOME TRUNK MOVEMENT IN WIND.
 6. FOR TREES 36" BOX/2.5" CAL. AND LARGER, USE THREE STAKES OR DEADMEN (AS APPROPRIATE), SPACED EVENLY AROUND TREE.

A TREE PLANTING

NTS

000-PL-06

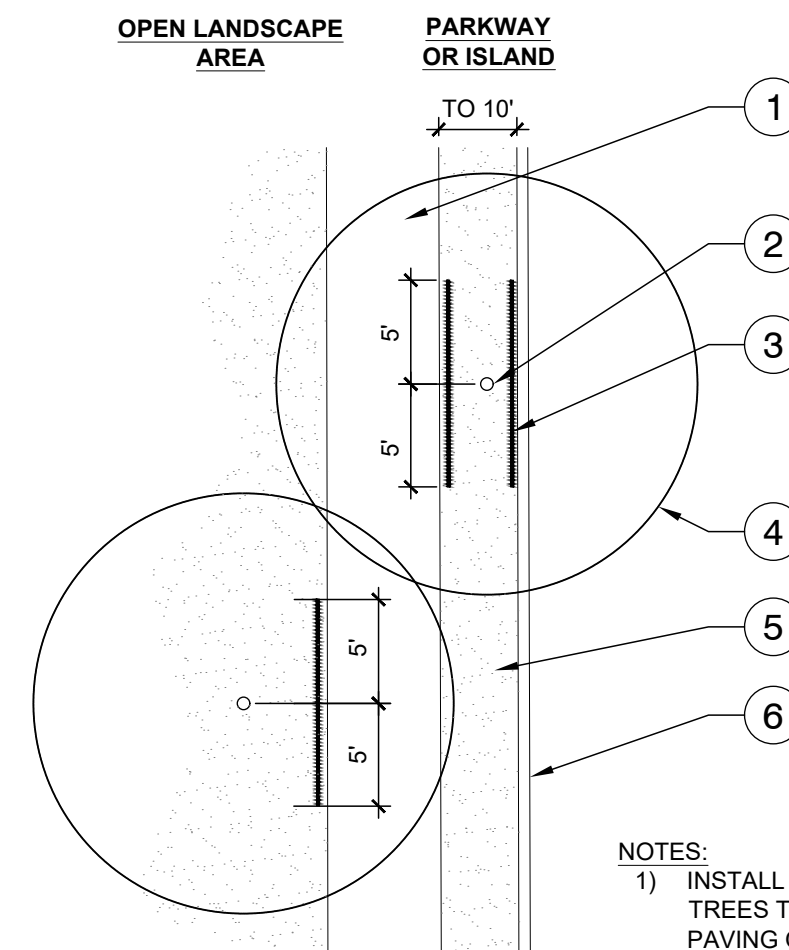


- NOTES:
1. SHRUBS SHALL BE OF QUALITY PRESCRIBED IN THE ROOT OBSERVATIONS DETAIL AND SPECIFICATIONS.
 2. SEE SPECIFICATIONS FOR FURTHER REQUIREMENTS RELATED TO THIS DETAIL.

B SHRUB PLANTING

NTS

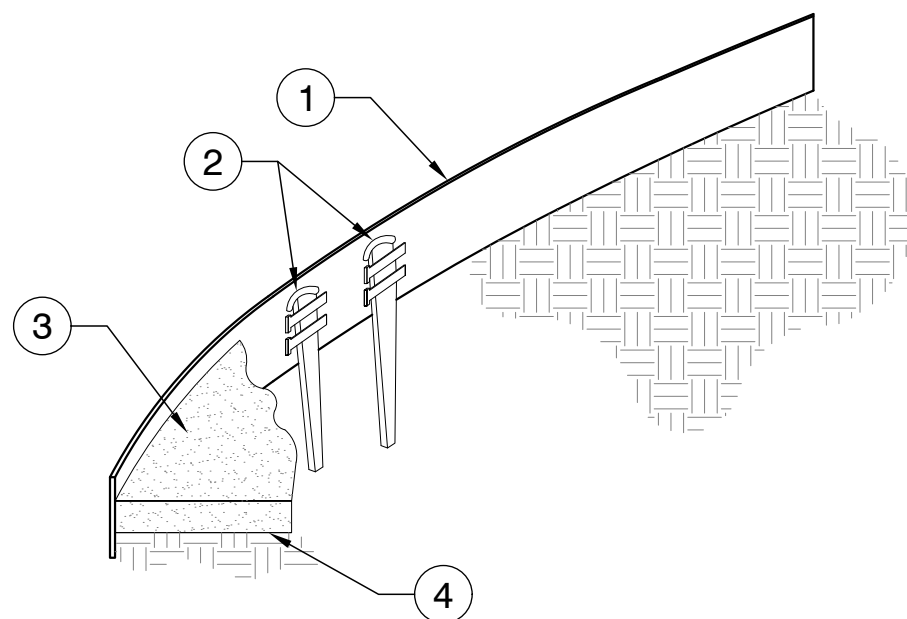
000-PL-02



- NOTES:
1. INSTALL ROOT BARRIERS NEAR ALL NEWLY-PLANTED TREES THAT ARE LOCATED WITHIN FIVE (5) FEET OF PAVING OR CURBS.
 2. BARRIERS SHALL BE LOCATED IMMEDIATELY ADJACENT TO HARDSCAPE. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR USE ROOT BARRIERS OF A TYPE THAT COMPLETELY ENCIRCLE THE ROOTBALL.

C ROOT BARRIER - PLAN VIEW

NTS

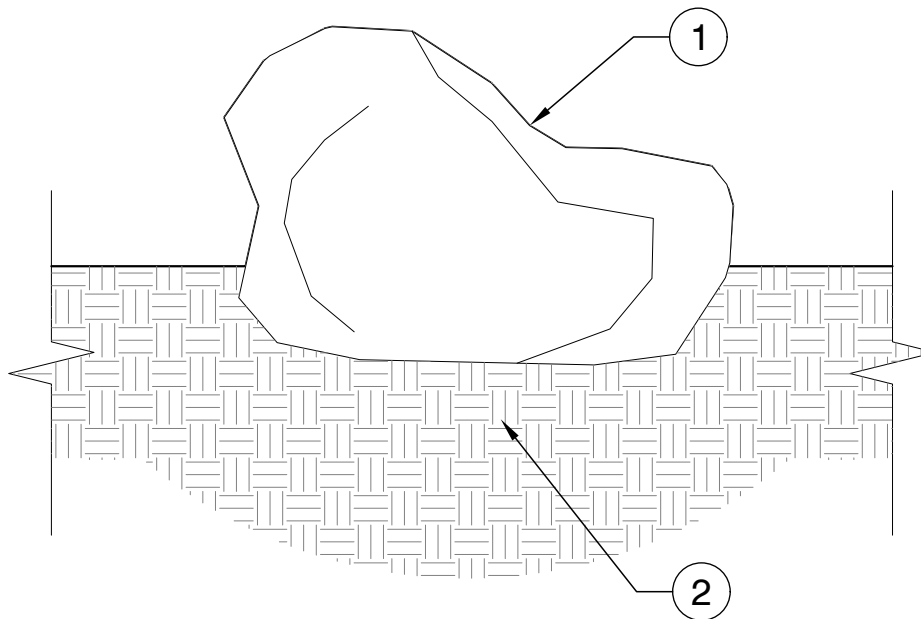


- NOTES:
1. INSTALL EDGING SO THAT STAKES WILL BE ON INSIDE OF PLANTING BED.
 2. BOTTOM OF EDGING SHALL BE BURIED A MINIMUM OF 1" BELOW FINISH GRADE.
 3. TOP OF MULCH SHALL BE 1" LOWER THAN TOP OF EDGING.
 4. STEEL EDGING SHOULD BE SMOOTH & CONSISTENT AT CURVES & SHOULD JOIN AT 90 DEGREE ANGLES UNLESS OTHERWISE NOTED.

D STEEL EDGING

NTS

000-ED-12



- NOTES:
1. BOULDER SIZES SHALL BE AS NOTED ON THE PLANS. SUBMIT PHOTOS (MIN. OF 4) OF TYPICAL BOULDERS (CLOSE UP & AT DISTANCE) PRIOR TO DELIVERY FOR APPROVAL.

E LANDSCAPE BOULDER

NTS

000-HA-13

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1. TYPICAL WALKWAY OR PAVING.
2. TREE TRUNK.
3. LINEAR ROOT BARRIER MATERIAL. SEE PLANTING NOTES FOR TYPE AND MANUFACTURER. INSTALL PER MANUFACTURER'S SPECIFICATIONS.
4. TREE CANOPY.
5. TYPICAL PLANTING AREA.
6. TYPICAL CURB AND GUTTER.

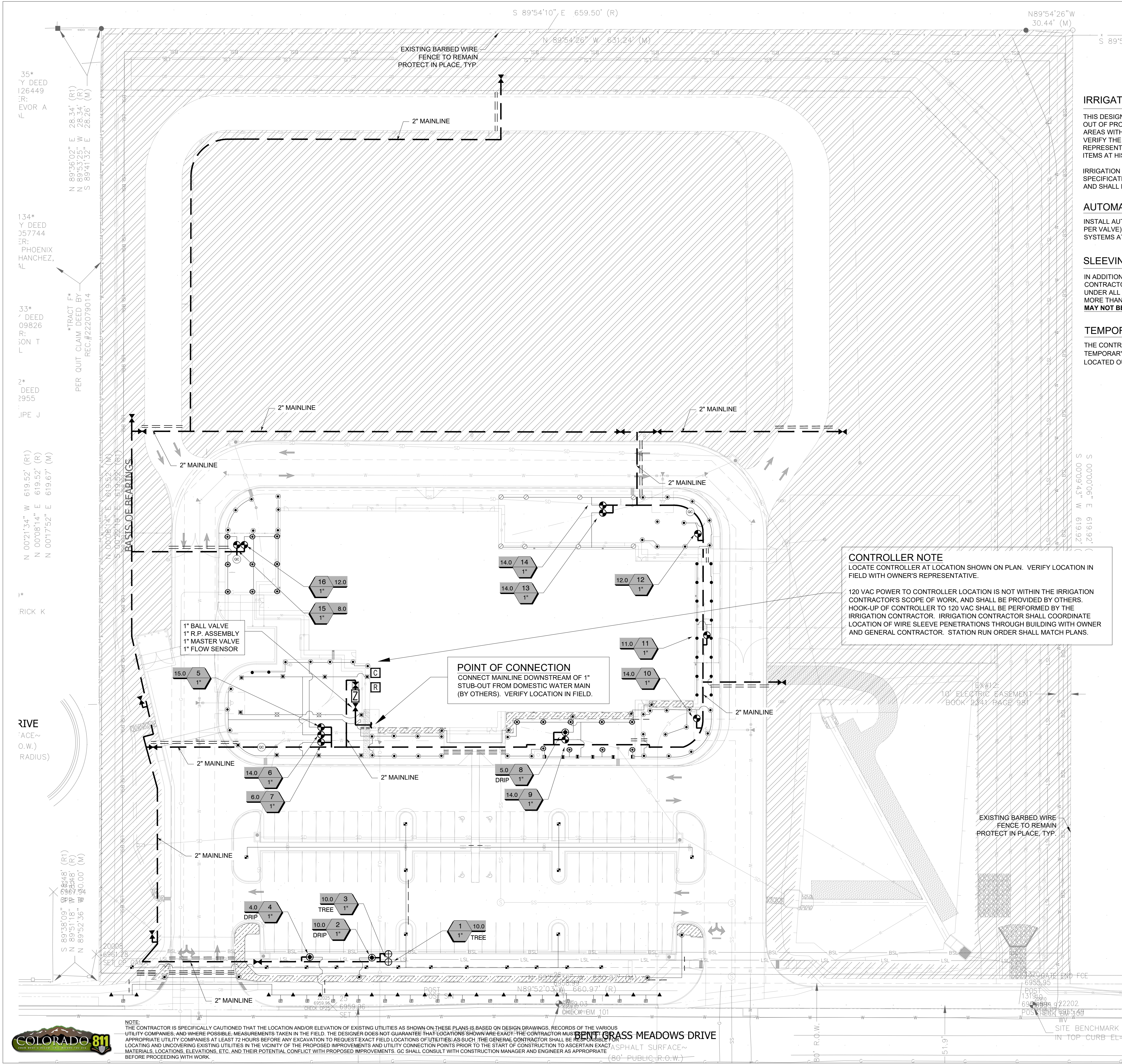
HONOR CHARTER
ACADEMY
BENT GRASS MEADOWS DRIVE
PEYTON, CO

LANDSCAPE
DETAILS

Date	Comment

Project Number	
Date	07/24/2026
Drawn By	JML
Checked By	KB

LP-5



IRRIGATION DISCLAIMER

THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PROPERTY LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST.

IRRIGATION CONTRACTOR IS RESPONSIBLE FOR VERIFYING ALL FINAL QUANTITIES PER DRAWINGS AND SPECIFICATIONS. ANY QUANTITIES PROVIDED ARE PROVIDED AS A CONVENIENCE TO THE CONTRACTOR ONLY AND SHALL NOT BE CONSIDERED ABSOLUTE.

AUTOMATIC DRAIN VALVES AND AIR RELIEF VALVES

INSTALL AUTOMATIC DRAIN VALVES AT THE LOW POINTS OF EACH LATERAL LINE (MIN. 2 PER VALVE) AS PER DETAIL ON SHEET LI-2. INSTALL AIR RELIEF VALVES ON DRIP SYSTEMS AT THE LOCATIONS SHOWN ON THE PLANS, AS PER DETAILS.

SLEEVING / WIRING NOTES:

IN ADDITION TO PROVIDING SLEEVES FOR ALL PIPING UNDER ROADWAYS AND WALKWAYS, THE IRRIGATION CONTRACTOR SHALL PROVIDE AND INSTALL SCH. 40 PVC SLEEVES FOR ALL CONTROLLER WIRES OCCURRING UNDER ALL ROADWAYS AND WALKWAYS. SLEEVES FOR CONTROLLER WIRES SHALL BE 2" DIA. AND CONTAIN NO MORE THAN 25 WIRES. **FOR PLAN CLARITY, ONLY SOME REPRESENTATIVE SLEEVES ARE SHOWN; SOME SLEEVES MAY NOT BE SHOWN.**

TEMPORARY IRRIGATION

THE CONTRACTOR SHALL COORDINATE WITH THE PLANTING PLAN AND PROVIDE TEMPORARY IRRIGATION FOR THE ESTABLISHMENT OF ALL PROPOSED PLANT MATERIALS LOCATED OUTSIDE THE LIMITS OF COVERAGE PROVIDED BY THE PERMANENT SYSTEM.

CONTROLLER NOTE

LOCATE CONTROLLER AT LOCATION SHOWN ON PLAN. VERIFY LOCATION IN FIELD WITH OWNER'S REPRESENTATIVE.

120 VAC POWER TO CONTROLLER LOCATION IS NOT WITHIN THE IRRIGATION CONTRACTOR'S SCOPE OF WORK, AND SHALL BE PROVIDED BY OTHERS. HOOK-UP OF CONTROLLER TO 120 VAC SHALL BE PERFORMED BY THE IRRIGATION CONTRACTOR. IRRIGATION CONTRACTOR SHALL COORDINATE LOCATION OF WIRE SLEEVE PENETRATIONS THROUGH BUILDING WITH OWNER AND GENERAL CONTRACTOR. STATION RUN ORDER SHALL MATCH PLANS.

POINT OF CONNECTION

CONNECT MAINLINE DOWNSTREAM OF 1" STUB-OUT FROM DOMESTIC WATER MAIN (BY OTHERS). VERIFY LOCATION IN FIELD.

1" BALL VALVE
1" R.P. ASSEMBLY
1" MASTER VALVE
1" FLOW SENSOR

EXISTING BARBED WIRE
FENCE TO REMAIN
PROTECT IN PLACE, TYP.

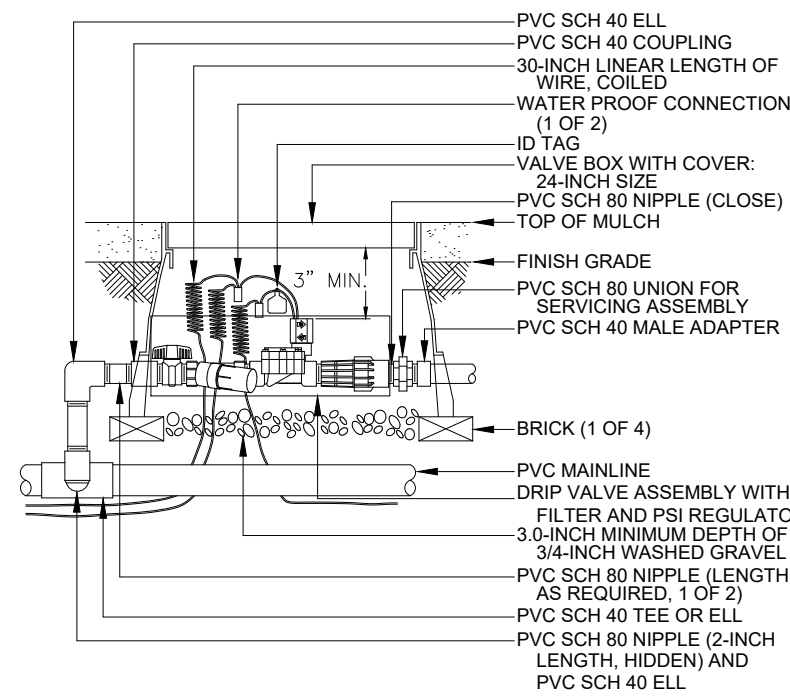


Scale 1" = 30'

NOTE: PRINTED DRAWING SIZE
MAY HAVE CHANGED FROM
ORIGINAL. VERIFY SCALE USING
BAR SCALE ABOVE.

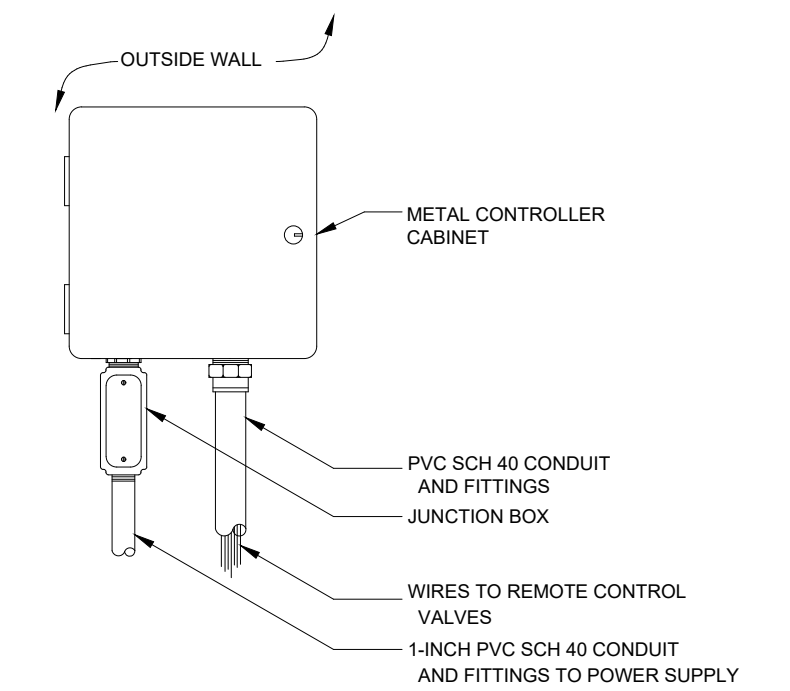
Date	Comment

Project Number	
Date	06/26/2026
Drawn By	JML
Checked By	KB



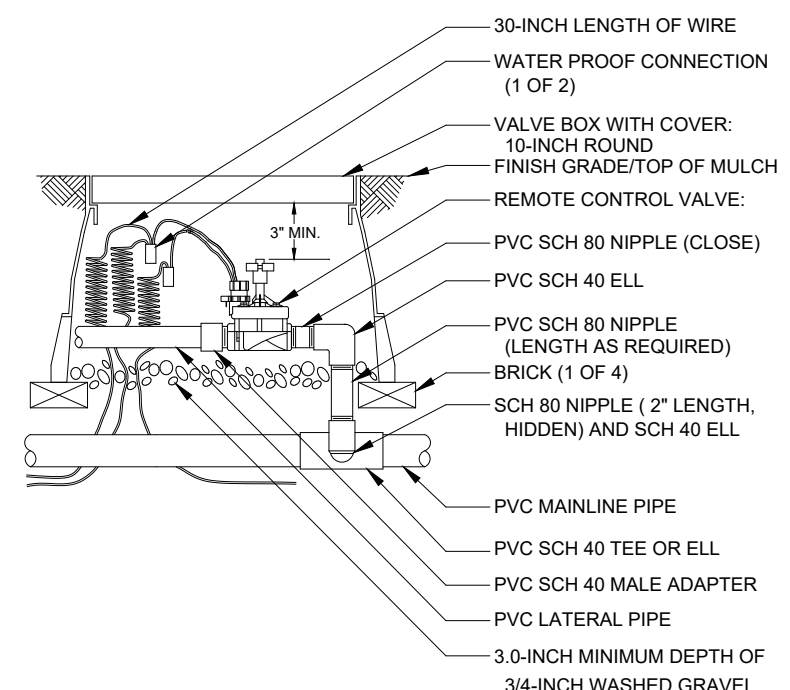
CONTROL ZONE KIT

N.T.S.



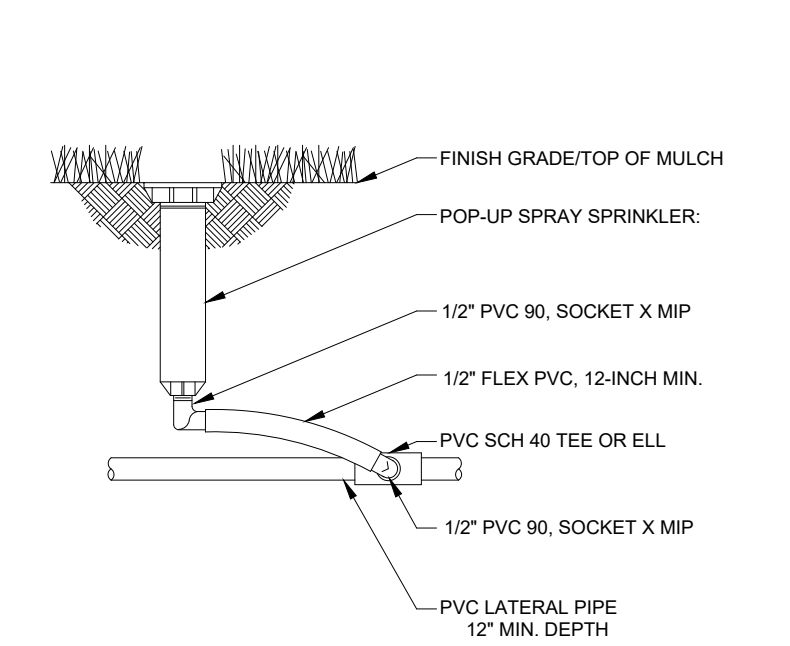
WALL MOUNT CONTROLLER

N.T.S.



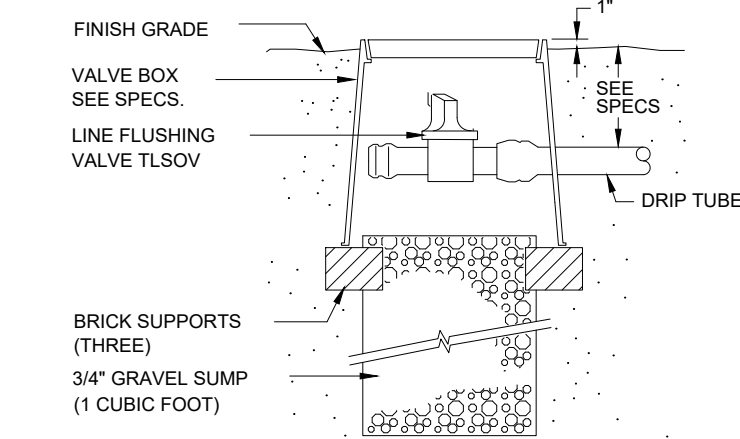
REMOTE CONTROL VALVE

N.T.S.



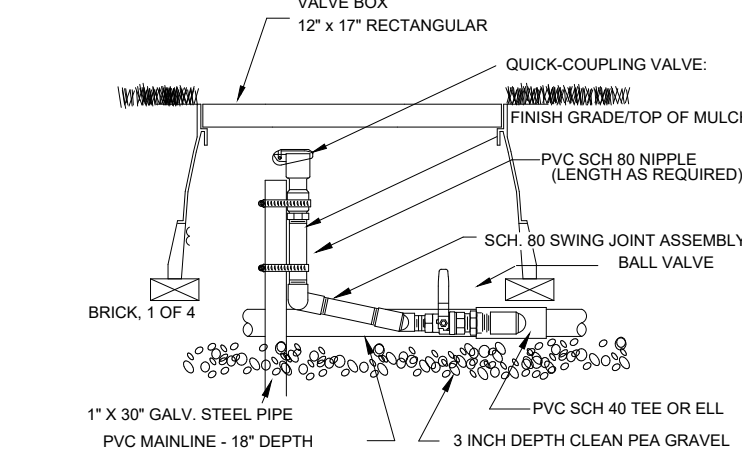
POP-UP SPRAY HEAD

N.T.S.



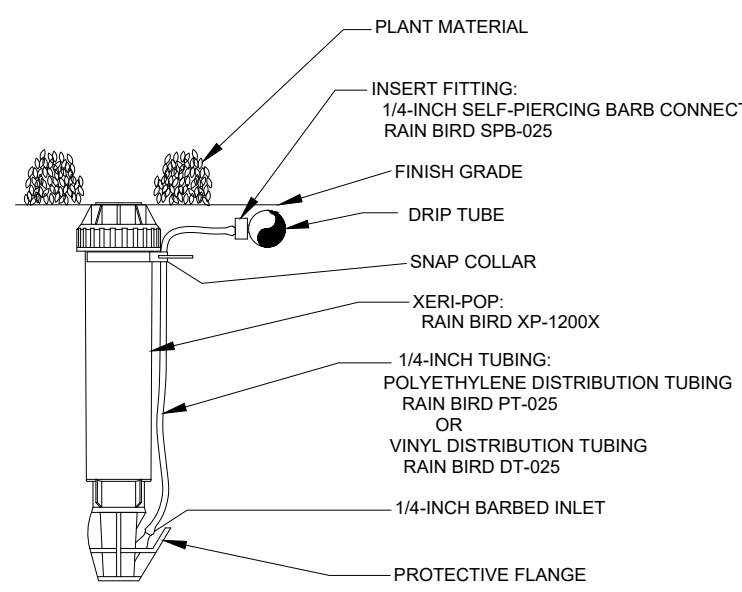
MANUAL LINE FLUSH VALVE

N.T.S.



QUICK COUPLER VALVE WITH PVC BALL VALVE

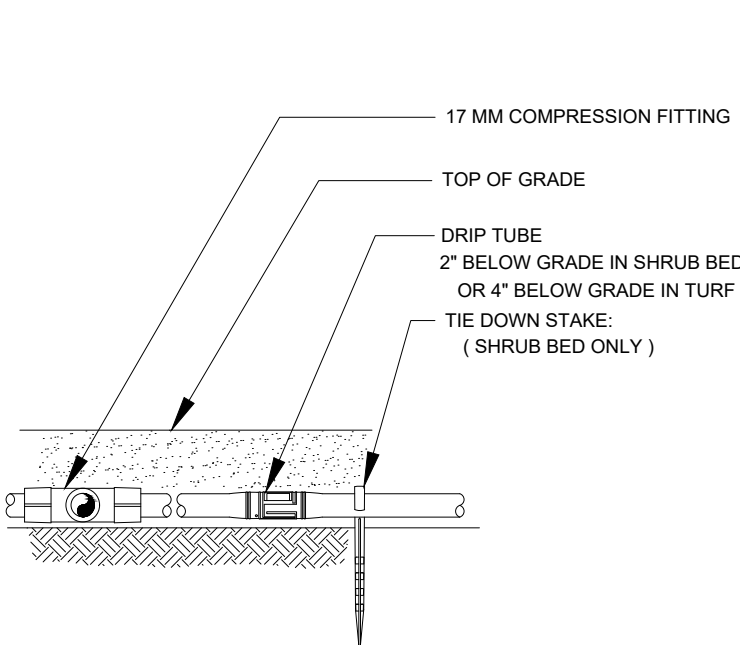
N.T.S.



NOTE:
USE XERIMAN TOOL XM-T001 TO INSERT BARB CONNECTOR DIRECTLY INTO 1/2-INCH POLYETHYLENE TUBING.
LOCATE AT FURTHEST DISTANCE FROM DRIP VALVE ASSEMBLY, ADJACENT TO EDGING OR WITHIN LOW PLANTINGS FOR OPTIMUM VIEWING, WITH CLOSED SPRAY NOZZLE.

ROOT WATERING SYSTEM

N.T.S.

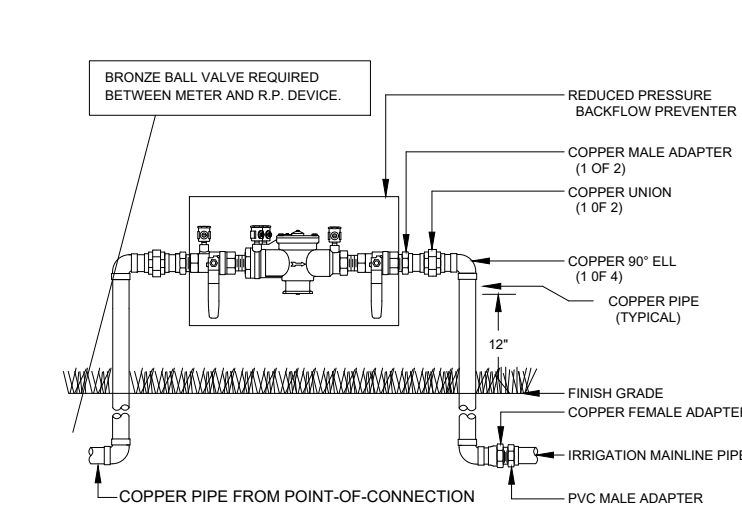


DRIP TUBE

N.T.S.

DRIP ZONE INDICATOR

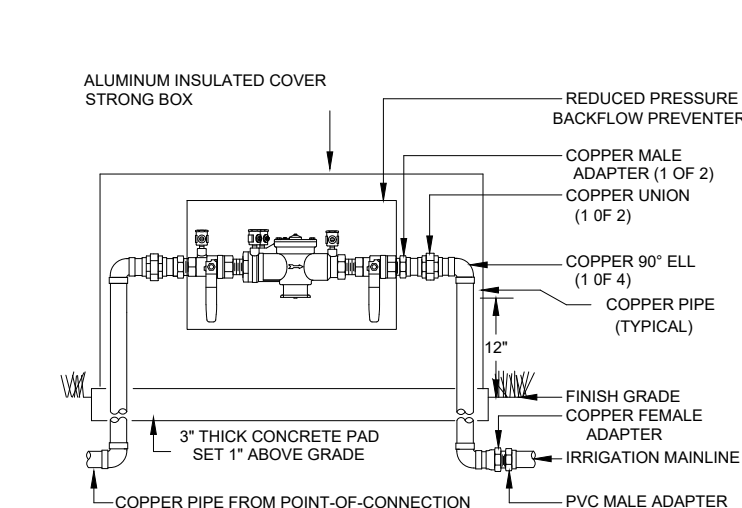
N.T.S.



NOTE:
1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES AND HEALTH DEPARTMENT. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.

RP DEVICE

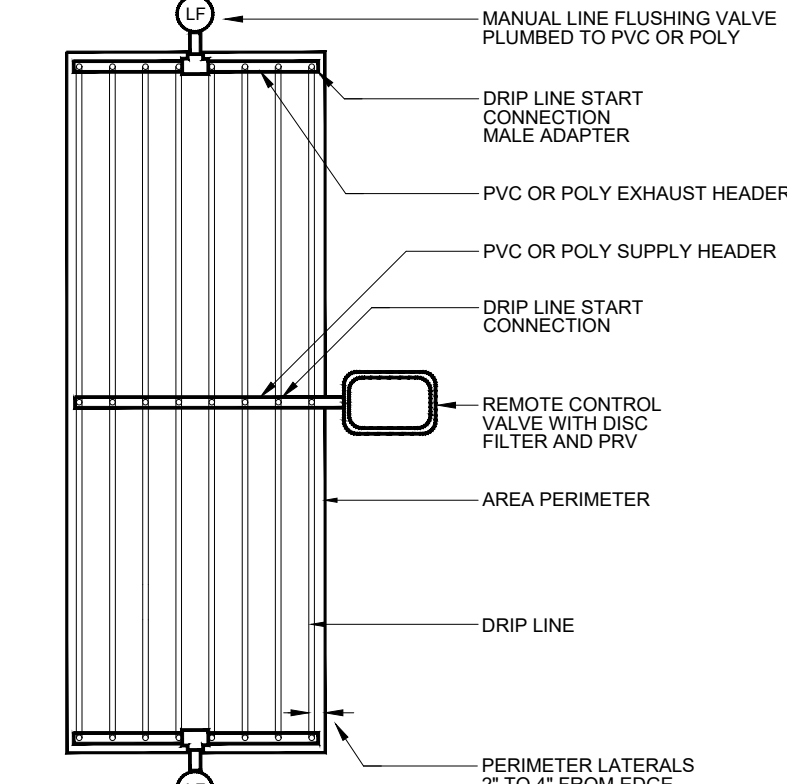
N.T.S.



NOTE:
1. INSTALL BACKFLOW PREVENTER AS REQUIRED BY LOCAL CODES. VERIFY LOCAL REQUIREMENTS PRIOR TO INSTALLATION.

RP DEVICE WITH INSULATED COVER

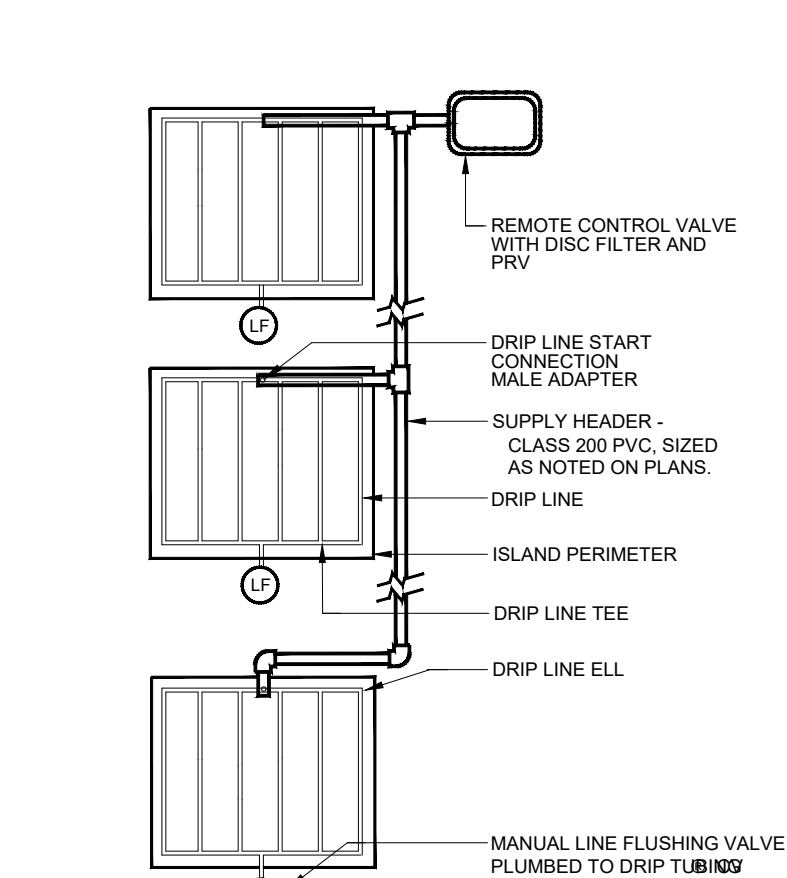
N.T.S.



SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE.
USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

DRIP CENTER FEED LAYOUT

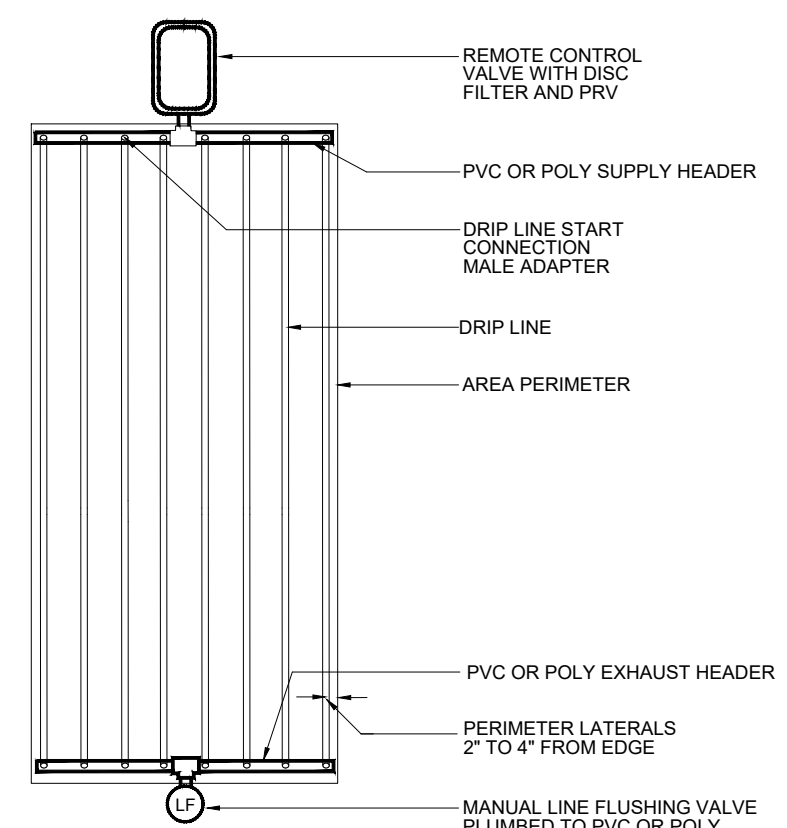
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USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

DRIP ISLAND LAYOUT

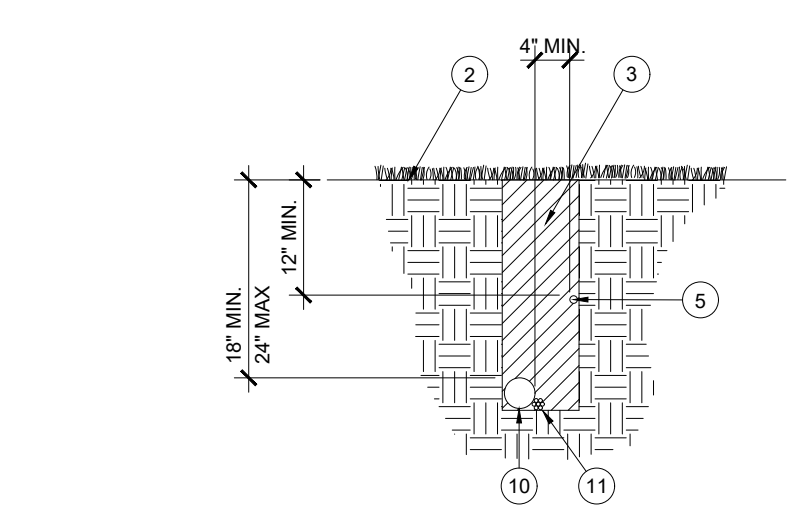
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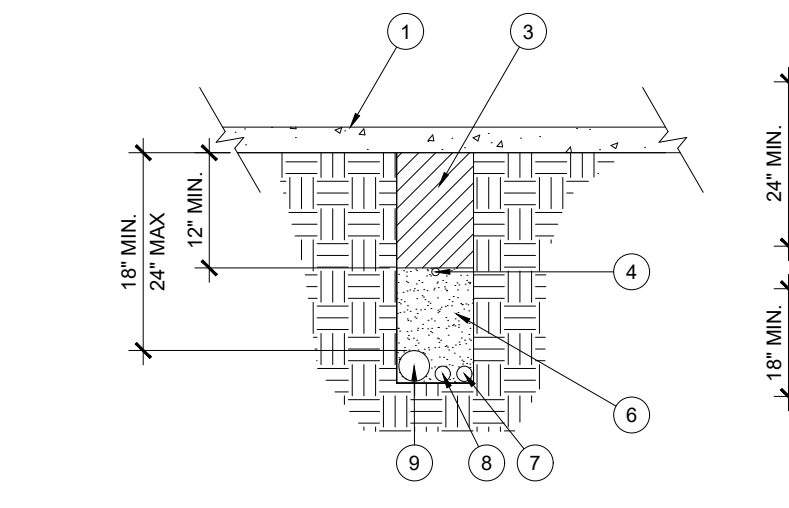
SUPPLY AND EXHAUST HEADERS SHALL BE CLASS 200 PVC PIPE, OF THE SAME DIAMETER AS THE ZONE VALVE SIZE.
USE DRIP TUBE FOR SUPPLY AND EXHAUST HEADERS ON GRIDS WITH FLOW SMALLER THAN 5 GPM ONLY.

DRIP END FEED LAYOUT

N.T.S.



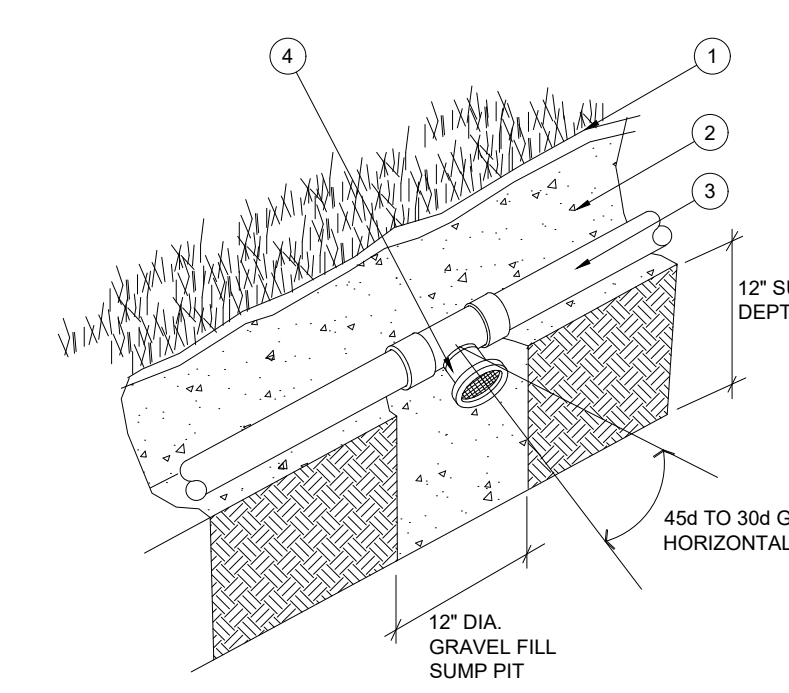
TRENCHING



SLEEING

PIPE AND SLEEVE INSTALLATION

N.T.S.

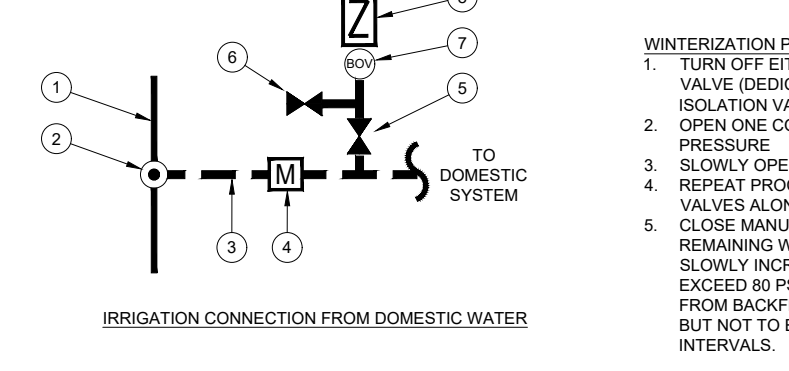
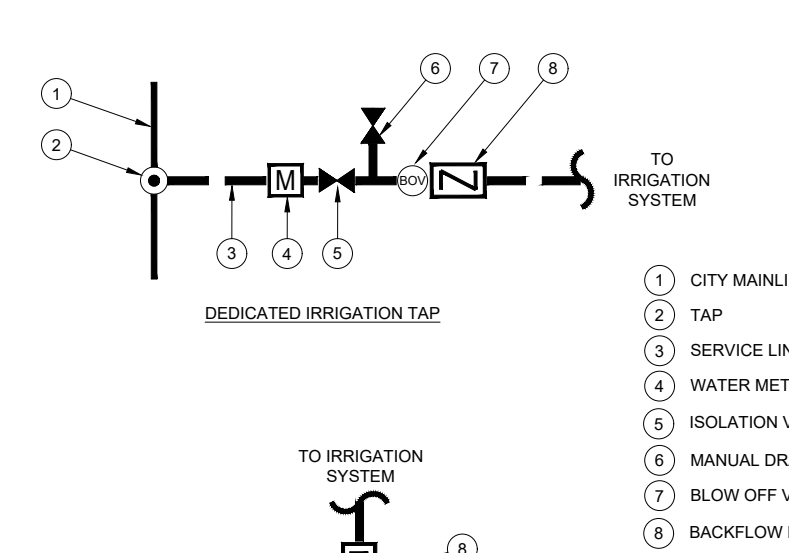


1. FINISH GRADE
2. PIPE TRENCH
3. LATERAL LINE PIPE
4. AUTOMATIC DRAIN VALVE

NOTE:
AUTOMATIC VALVES ARE TO BE LOCATED AT LOW POINTS OF LATERAL LINES.
LOCATE END DRAIN VALVE 12\"/>

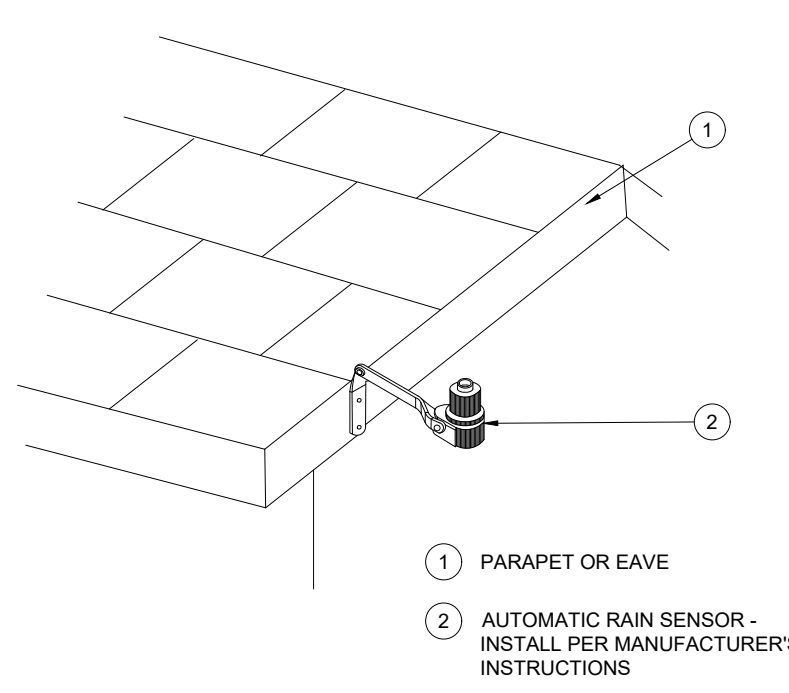
AUTOMATIC DRAIN VALVE

N.T.S.



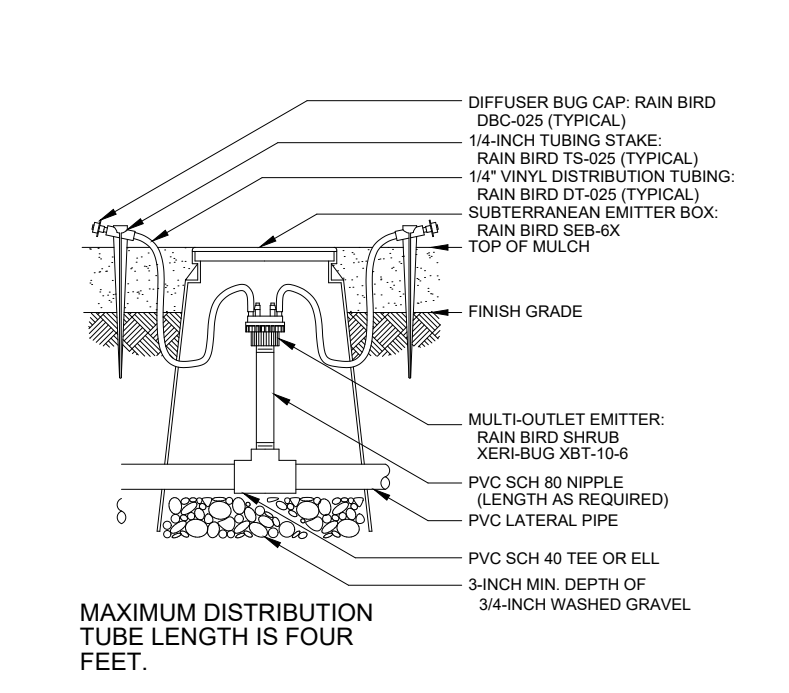
WATER TAP DIAGRAM

N.T.S.



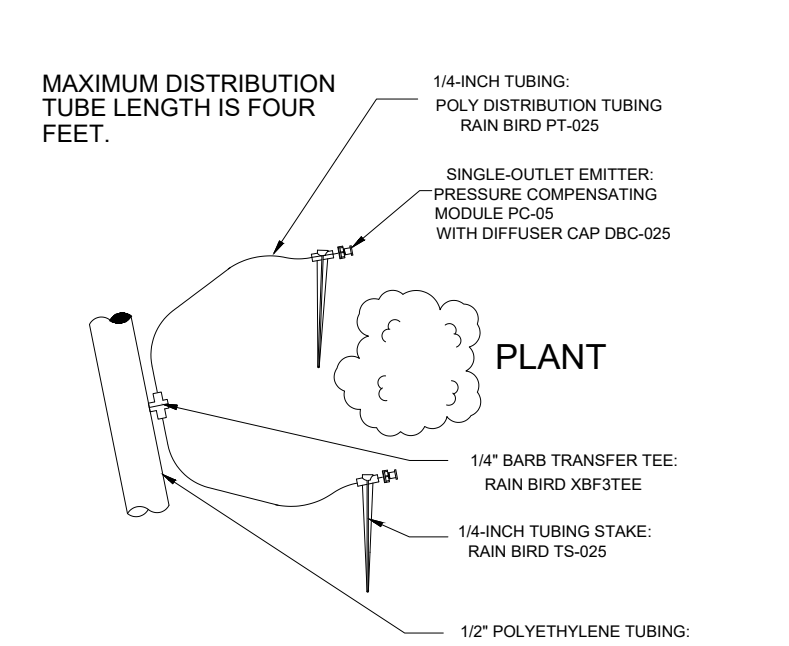
RAIN SENSOR, ROOF MOUNT

N.T.S.



XBT MULTI-OUTLET EMITTER / BOX

N.T.S.



XERI-BUG EMITTER

N.T.S.

IRRIGATION DETAILS

Date	Comment

Project Number	
Date	06/26/2026
Drawn By	JML
Checked By	KB



IRRIGATION SPECIFICATIONS

GENERAL

- A. QUALIFICATIONS OF IRRIGATION CONTRACTOR
1. ALL WORK SHOWN ON THESE PLANS SHALL BE PERFORMED BY A SINGLE IRRIGATION CONTRACTING FIRM SPECIALIZING IN IRRIGATION SYSTEMS. SEE THE IRRIGATION PLAN FOR SPECIFIC EQUIPMENT AND SYSTEM LAYOUT.
2. THE IRRIGATION CONTRACTOR MUST HAVE ON ITS STAFF A LICENSED IRRIGATION INSTALLER, AS REGULATED BY THE APPROPRIATE LOCAL JURISDICTION. A LICENSED IRRIGATION INSTALLER SHALL BE PRESENT AT THE PROJECT SITE AT ALL TIMES AS WORK IS IN PROGRESS. THE OWNER MAY DEMAND THAT WORK STOP UNTIL THE CONTRACTOR PROVIDES FOR A LICENSED IRRIGATION INSTALLER TO BE PRESENT AT THE PROJECT SITE AND SUPERVISING ALL IRRIGATION WORK.
3. A LIST OF SUCCESSFULLY COMPLETED PROJECTS OF THIS TYPE, SIZE AND NATURE MAY BE REQUESTED BY THE OWNER FOR FURTHER QUALIFICATION MEASURES.
- B. SCOPE OF WORK
1. WORK COVERED BY THESE SECTIONS INCLUDES THE FURNISHING AND PAYMENT OF ALL MATERIALS, LABOR, SERVICES, EQUIPMENT, LICENSES, TAXES, FEES, AND ANY OTHER ITEMS THAT ARE NECESSARY FOR THE EXECUTION, INSTALLATION AND COMPLETION OF ALL WORK, SPECIFIED HEREIN AND/OR SHOWN ON THE IRRIGATION PLANS, NOTES, AND DETAILS.
2. ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH ALL APPLICABLE LAWS, CODES AND REGULATIONS REQUIRED BY AUTHORITIES HAVING JURISDICTION OVER SUCH WORK, INCLUDING ALL INSPECTIONS AND PERMITS REQUIRED BY FEDERAL, STATE AND LOCAL AUTHORITIES IN SUPPLY, TRANSPORTATION AND INSTALLATION OF MATERIALS. IN CASE OF CONFLICT BETWEEN THESE PLANS AND LOCAL AND/OR STATE CODES, CODES SHALL PREVAIL.
3. THE INTENT OF THE IRRIGATION SYSTEM IS TO PROVIDE 100% COVERAGE OF ALL LANDSCAPE AREAS. THE IRRIGATION PLAN IS GENERALLY DIAGRAMMATIC. COORDINATE IRRIGATION INSTALLATION WITH UTILITY INSTALLATIONS. ACTUAL LOCATION OF CONTROLLER, BACKFLOW DEVICE, PIPING, VALVES, SPRAY HEADS, DRIP IRRIGATION, AND RELATED EQUIPMENT MAY NEED TO BE ADJUSTED BASED ON ACTUAL SITE CONDITIONS.
4. FOR CLARITY PURPOSES, SOME IRRIGATION LINES AND EQUIPMENT ARE SHOWN IN HARDSCAPE AREAS WITHOUT ACCESS SLEEVES; THESE LINES SHALL BE INSTALLED IN A COMMON TRENCH OR AT THE BACK OF CURB IN LANDSCAPE AREAS. MINOR FIELD ADJUSTMENTS SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.

PRODUCTS

- A. ALL MATERIALS SHALL BE NEW AND WITHOUT FLAWS OR DEFECTS OF ANY TYPE AND SHALL BE THE BEST OF THEIR CLASS AND KIND. ALL MATERIALS SHALL HAVE A MINIMUM GUARANTEE OF ONE YEAR AGAINST MATERIAL DEFECTS OR DEFECTIVE WORKMANSHIP. ALL MATERIALS SHALL BE OF THE BRANDS AND TYPES NOTED ON THE DRAWINGS OR AS SPECIFIED HEREIN, OR APPROVED EQUAL. THE CONTRACTOR MUST FIRST OBTAIN APPROVAL FROM THE IRRIGATION DESIGNER FOR AN APPROVED EQUAL BEFORE INSTALLING SUCH MATERIALS IN THE FIELD, OR THE CONTRACTOR MAY BE REQUIRED TO REPLACE SUCH MATERIALS AT HIS OWN COST.
- B. BACKFLOW PREVENTION DEVICES SHALL BE OF THE SIZE AND TYPE INDICATED ON THE DRAWINGS. INSTALL BACKFLOW PREVENTION UNITS IN ACCORDANCE WITH IRRIGATION CONSTRUCTION DETAILS AND ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES.
- C. PIPING
1. PRESSURE SUPPLY LINES, DOWNSTREAM OF THE POINT-OF-CONNECTION:
- a. SCHEDULE 40 PVC FOR ALL PIPE 1-1/2" OR LESS
- b. CLASS 315 PVC FOR ALL PIPE 2" TO 2-1/2"
- c. CLASS 200 PVC, CASKED, FOR ALL PIPE 3" AND LARGER
2. SLEEVING AND NON-PRESSURE LATERAL LINES (DOWNSTREAM FROM VALVES): CLASS 200 PVC
3. FITTINGS: SCH. 40 PVC, EXCEPT AS NOTED OTHERWISE.
- D. VALVES AND DRIP VALVE ASSEMBLIES: TYPE AND SIZE AS NOTED ON PLANS. EACH VALVE SHALL BEAR A PRE-MANUFACTURED, NUMBERED WATERPROOF TAG BEARING A NUMBER CORRESPONDING TO ITS VALVE SEQUENCE OF OPERATION ON THE CONTROLLER. THE OPERATION SEQUENCE SHALL MATCH THAT AS SHOWN ON THE PLANS.
- E. QUICK COUPLERS, BALL VALVES, AND GATE VALVES: TYPE AND SIZE PER PLANS.
- F. VALVE BOXES: TYPE AND SIZE AS NOTED ON DETAILS. ALL VALVES BOXES SHALL BE LOCKING BOLT-DOWN TYPE, FURNISHED WITH LIDS AND BOLTS. BOXES SHALL BE OF A SIZE TO CONTAIN THE ENTIRE VALVE AND/OR VALVE ASSEMBLY. THE VALVE BOX LID SHALL HAVE THE VALVE STATION NUMBER HEAT-BRANDED INTO THE LID WITH 2" HIGH LETTERS.
- G. FIXED SPRAY HEADS AND ROTORS: PLASTIC BODY POP-UP, WITH A REMOVABLE PLASTIC SPRAY NOZZLE. EXACT TYPE, MODEL, AND NOZZLE SHALL BE AS INDICATED ON PLANS.
- H. INTEGRAL EMITTER DRIP TUBING: TUBING MODEL AND FLOW RATE AS NOTED ON PLANS, WITH INTEGRAL EMITTERS WELDED TO THE INSIDE WALL OF THE TUBING AS AN INTEGRAL PART OF THE TUBING ASSEMBLY.
- I. AUTOMATIC CONTROLLER: TYPE AND MODEL PER PLANS. PROVIDE VANDAL-PROOF ENCLOSURE FOR ALL EXTERIOR INSTALLATIONS. PROVIDE LINE-VOLTAGE DISCONNECT SWITCH WITH GROUND FAULT PROTECTION.
- J. 24 VOLT VALVE WIRE SHALL BE A MINIMUM OF #14 GAUGE, U.F. APPROVED FOR DIRECT BURIAL. SINGLE CONDUCTOR IRRIGATION WIRE. EACH CONTROLLER SHALL HAVE A DIFFERENT COLOR STATION AND COMMON WIRE.
1. STATION WIRE - ANY COLOR EXCEPT WHITE OR BLUE
2. COMMON WIRE - WHITE
3. EXTRA COMMON WIRES - BLUE
- K. WIRE SPLICES SHALL BE ENCASED IN A WATERPROOF COMPOUND OR GEL. ALL FIELD SPLICES SHALL BE LOCATED IN A 6 INCH ROUND VALVE BOX.
- L. RAIN SENSOR: TYPE AND MODEL PER PLANS.

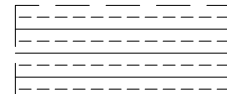
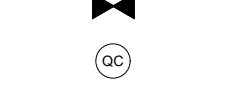
METHODS

- A. THIS DESIGN IS DIAGRAMMATIC. ALL PIPING, VALVES, AND OTHER EQUIPMENT SHOWN WITHIN PAVED AREAS OR OUT OF PROPERTY BOUNDARIES ARE FOR DESIGN CLARIFICATION ONLY, AND SHALL BE INSTALLED IN PLANTING AREAS WITHIN THE PLANTING LINES OR LIMITS INDICATED ON PLAN. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATIONS OF ALL ABOVE-GRADE IRRIGATION EQUIPMENT WITH THE OWNER'S AUTHORIZED REPRESENTATIVE PRIOR TO INSTALLATION, OR IRRIGATION CONTRACTOR MAY BE REQUIRED TO MOVE SUCH ITEMS AT HIS OWN COST. ENSURE FIELD COORDINATION IS MADE EARLY ON IN THE CONSTRUCTION PHASE SO PLACEMENT LOCATION IS CORRECT.
- B. THE IRRIGATION CONTRACTOR SHALL MEET WITH THE OWNER'S REPRESENTATIVE PRIOR TO COMMENCEMENT OF WORK, AND SHALL OBTAIN ALL ENGINEERING, LANDSCAPE, AND OTHER APPLICABLE PLANS & DOCUMENTS. THE CONTRACTOR SHALL THOROUGHLY REVIEW THE PLANS AND REPORT ANY CONFLICTS OR DISCREPANCIES TO THE LANDSCAPE ARCHITECT AND OWNERS REPRESENTATIVE IMMEDIATELY.
- C. THE IRRIGATION CONTRACTOR SHALL NOT WILLFULLY INSTALL THE IRRIGATION SYSTEM AS SHOWN ON THE DRAWINGS WHEN IT IS OBVIOUS IN THE FIELD THAT UNKNOWN OBSTRUCTIONS, GRADES OR DIMENSIONS EXIST THAT MIGHT NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. SUCH OBSTRUCTIONS OR DIFFERENCES SHALL BE BROUGHT TO THE ATTENTION OF THE IRRIGATION DESIGNER. IN THE EVENT THAT THIS NOTIFICATION IS NOT PERFORMED, THE IRRIGATION CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ANY REVISIONS AND NECESSARY COSTS.
- D. THE IRRIGATION CONTRACTOR SHALL PAY ANY AND ALL FEES AND PERMITS ASSOCIATED WITH THE INSTALLATION OF THE IRRIGATION SYSTEM.
- E. AT LEAST SEVEN DAYS BEFORE BEGINNING WORK, CONFIRM THE STATIC WATER PRESSURE IS AT LEAST 65 PSI. IF STATIC WATER PRESSURE IS OUTSIDE OF THE STATED RANGE, DO NOT PROCEED WITHOUT FIRST NOTIFYING THE IRRIGATION DESIGNER AND OWNER IN WRITING, AND OBTAINING SUBSEQUENT DIRECTION FOR CORRECTIIONAL MEASURES. SHOULD THE IRRIGATION CONTRACTOR CHOOSE TO BEGIN THE INSTALLATION WITHOUT SUCH NOTIFICATION, THE IRRIGATION CONTRACTOR WILL ASSUME THE RESPONSIBILITY FOR ALL COSTS INCURRED TO ENSURE THE SYSTEM IS WORKING PROPERLY. NO CHANGE ORDERS WILL BE AUTHORIZED IN SUCH CIRCUMSTANCES.
- F. THE IRRIGATION CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITY LINES (WATER, SEWER, ELECTRICAL, TELEPHONE, GAS, CABLE, TELEVISION, ETC.) PRIOR TO THE START OF ANY WORK. THE CONTRACTOR SHALL BE FAMILIAR WITH ALL GRADE DIFFERENCES, LOCATIONS OF WALLS, STRUCTURES AND UTILITIES.
- G. COORDINATE WITH THE OWNER THE PROPOSED LOCATIONS OF THE AUTOMATIC CONTROLLER AND ANY REQUIRED SLEEVES THROUGH THE BUILDING FOR CONTROL WIRES.
- H. TRENCING NEAR EXISTING TREES:
1. CONTRACTOR SHALL NOT DISTURB ROOTS 1-1/2" AND LARGER IN DIAMETER WITHIN THE CRITICAL ROOT ZONE (CRZ) OF EXISTING TREES, AND SHALL EXERCISE ALL POSSIBLE CARE AND PRECAUTIONS TO AVOID INJURY TO TREE ROOTS, TRUNKS, AND BRANCHES. THE CRZ IS DEFINED AS A CIRCULAR AREA EXTENDING OUTWARD FROM THE TREE TRUNK, WITH A RADIUS EQUAL TO 1" FOR EVERY 1" OF TRUNK DIAMETER-AT-BREAST-HEIGHT (4.5' ABOVE THE AVERAGE GRADE AT THE TRUNK).
2. ALL EXCAVATION WITHIN THE CRZ SHALL BE PERFORMED USING HAND TOOLS. NO MACHINE EXCAVATION OR TRENCING OF ANY KIND SHALL BE ALLOWED WITHIN THE CRZ.
3. ALTER ALIGNMENT OF PIPE TO AVOID TREE ROOTS 1-1/2" AND LARGER IN DIAMETER. WHERE TREE ROOTS 1-1/2" AND LARGER IN DIAMETER ARE ENCOUNTERED IN THE FIELD, TUNNEL UNDER SUCH ROOTS. WRAP EXPOSED ROOTS WITH SEVERAL LAYERS OF BURLAP AND KEEP MOIST. CLOSE ALL TRENCHES WITHIN THE CANOPY DRIP LINES WITHIN 24 HOURS.
4. ALL SEVERED ROOTS SHALL BE HAND PRUNED WITH SHARP TOOLS AND ALLOWED TO AIR-DRY. DO NOT USE ANY SORT OF SEALERS OR WOUND PAINTS.

L. BACKFILL

1. ALL BACKFILL MATERIAL SHALL BE SUBJECT TO APPROVAL BY THE OWNER. BACKFILL MATERIAL SHALL BE FREE FROM RUBBISH, ROCK LARGER THAN 1", LARGE STONES, BRUSH, SOIL, FROZEN MATERIAL, OR OTHER UNSUITABLE SUBSTANCES THAT MAY DAMAGE PIPE DURING THE BACKFILLING OPERATIONS. SEPARATE OUT ROCKS LARGER THAN 1 INCH IN ANY DIRECTION FROM EXCAVATED MATERIAL, AND REMOVE FROM AREAS TO RECEIVE LANDSCAPING. COVER FOR BOTH TOP AND SIDES OF PIPE SHALL BE A MINIMUM OF 2 INCHES OF ROCK-FREE SOIL, SAND, OR OTHER APPROVED MATERIAL.
2. IN THE EVENT THAT THE MATERIAL FROM THE EXCAVATION OR TRENCING IS FOUND TO BE UNSUITABLE FOR USE IN BACKFILL, IT SHALL BE REMOVED FROM THE SITE AND PROPERLY AND LEGALLY DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE. THE CONTRACTOR SHALL THEN PURCHASE AND FURNISH SUITABLE BACKFILL MATERIAL, CONSISTING OF EARTH, LOAM, SANDY CLAY, SAND OR OTHER APPROVED MATERIALS FREE OF DEBRIS.
- J. BACKFLOW PREVENTER INSTALLATION: CONTRACTOR SHALL MAKE CONNECTIONS TO EXISTING WATER SOURCES AT LOCATION SHOWN ON PLANS AND AS APPROVED BY THE OWNER, AND SHALL MAKE ANY MINOR CHANGES IN LOCATION AS MAY BE NECESSARY DUE TO ACTUAL SITE CONDITIONS. BACKFLOW PREVENTER HEIGHT SHALL BE AS PER LOCAL CODES AND IRRIGATION DETAILS. INSTALL A BRASS BALL VALVE IMMEDIATELY UPSTREAM OF THE BACKFLOW DEVICE TO SERVE AS AN ISOLATION VALVE. TO EVERY EXTENT POSSIBLE, INSTALL BACKFLOW PREVENTER IN A LOCATION SCREENED FROM PUBLIC VIEW (SUCH AS BEHIND A SHRUB ROW).
- K. PIPING
1. PIPE SIZE SHALL CONFORM TO THOSE SHOWN ON THE DRAWINGS. NO SUBSTITUTIONS OF SMALLER PIPE SIZES SHALL BE PERMITTED, BUT SUBSTITUTIONS FOR LARGER SIZES MAY BE APPROVED.
2. MAINLINE PIPE AND WIRES SHALL BE INSTALLED WITH A MINIMUM COVER OF 18 INCHES (24" FOR MAINLINE 3"-5", AND 36" FOR MAINLINE 6" AND GREATER). LATERAL PIPE SHALL BE INSTALLED WITH A MINIMUM COVER OF 12 INCHES/UNIT ONLY.
3. ASSEMBLE ALL THREADED FITTINGS WITH TEFLON TAPE, WHICH SHALL BE APPLIED TO MALE THREADS ONLY.
4. ALL SOLVENT-WELD CONNECTIONS SHALL BE MADE WITH APPROVED SOLVENT-WELD PRIMER AND GLUE.
5. PIPE SHALL BE INSTALLED WITH A MINIMUM OF 4" HORIZONTAL CLEARANCE FROM ANY OTHER PIPE AND 2" VERTICAL CLEARANCE FROM ANY PIPES THAT CROSS OVER OR UNDER.
- L. VALVES
1. VALVES SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION DETAILS.
2. VALVE BOXES SHALL BE INSTALLED FLUSH WITH THE GRADE, WITH CLEAN PEA GRAVEL LOCATED BELOW THE VALVE AS NOTED ON THE DETAILS. LOCATE BOXES WITHIN 12 TO 24" OF SIDEWALKS OR LANDSCAPE EDGES, WITH TOPS OF BOXES 1" ABOVE FINISH GRADE IN TURF, AND 3" ABOVE FINISH GRADE IN SHRUB AREAS (TO AVOID BEING COVERED BY MULCH).
3. EACH VALVE BOX COVER SHALL BE HEAT-BRANDED WITH THE CONTROLLER STATION NUMBER.
4. DO NOT INSTALL MORE THAN TWO VALVES IN A JUMBO BOX.
- M. DRIP IRRIGATION EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S DIRECTIONS AND THE IRRIGATION DETAILS.
1. SUBSURFACE DRIP LINES SHALL BE BURIED NO MORE THAN 2" BELOW FINISH GRADE.
2. DRIP LINES MOUNTED ON GRADE SHALL BE LOCATED BENEATH LANDSCAPE FABRIC, AND SECURED IN PLACE WITH WIRE STAPLES AT A MAXIMUM OF 24"-36" ON CENTER.
- N. SPRAY, ROTOR, AND BUBBLER HEADS
1. ALL SPRAY AND ROTOR HEAD LOCATIONS SHALL BE STAKED, FLAGGED AND/OR OTHERWISE CLEARLY MARKED ON THE GROUND PRIOR TO INSTALLATION. SPRINKLER HEAD STAKING SHALL BE INSPECTED AND APPROVED BY THE OWNER'S REPRESENTATIVE BEFORE INSTALLATION.
2. ALL SPRAY HEADS SHALL BE CONNECTED WITH A 12 INCH MINIMUM LENGTH OF 3/4 INCH FLEX PVC. THE FLEX PVC SHALL BE SOLVENT WELDED TO SCHEDULE 40 FITTINGS WITH WELD-ON #795 SOLVENT AND #P-70 PRIMER. ALL ROTORS SHALL BE CONNECTED TO LATERAL LINES WITH PRE-MANUFACTURED SWING JOINTS.
3. ALL ROTOR, SPRAY, ROT, BUBBLER HEADS SHALL BE SET PERPENDICULAR AND FLUSH TO FINISH GRADE AND WITH A CLEARANCE OF FOUR INCHES (MINIMUM) FROM THE EDGE OF ANY BUILDINGS, WALLS, BOULDERS, AND HARDSCAPE, WITH A CLEARANCE OF TWELVE INCHES (MINIMUM) FROM BUILDINGS, UNLESS OTHERWISE SPECIFIED.
4. ALL ROTOR, SPRAY AND BUBBLER HEADS AND VALVES SHALL BE FLUSHED AND ADJUSTED FOR OPTIMUM COVERAGE WITH MINIMUM OVERSPRAY ON WALKS, STREETS, WALLS, ETC.
5. LATERAL PIPE/ROTOR TREE STREAM BUBBLER HEADS IS OBLIGATORILY CONNECT TREE BUBBLER HEADS TO VALVES AS SHOWN WITH CLASS 200 PVC PIPE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF 5 FEET PER SECOND.
- O. AUTOMATIC CONTROLLER
1. INSTALL THE CONTROLLER AT THE LOCATION INDICATED BY THE OWNER. INSTALL CONTROLLER WITH A BACKUP BATTERY AS RECOMMENDED BY THE MANUFACTURER.
2. THE IRRIGATION CONTRACTOR SHALL COORDINATE 120 V.A.C. ELECTRICAL POWER TO CONTROLLER AND DEDICATE ONE (1) 20-AMP BREAKER FOR EACH CONTROLLER. IT SHALL BE THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO MAKE THE FINAL HOOK-UP FROM THE ELECTRICAL SOURCE TO THE CONTROLLER UNIT ONLY.
3. ALL VALVE CONTROL WIRE SHALL BE AWG 14 TYPE UF, 600 VOLT TEST, DIRECT BURIAL. NO SPLICES SHALL BE ALLOWED EXCEPT AT VALVES AND CONTROLLER. WHERE SPLICES MAY BE NECESSARY DUE TO EXCESSIVELY LONG WIRE RUNS, THE CONTRACTOR SHALL MAKE ALL SPLICES IN 6" ROUND VALVE BOXES WITH 3MS "DBY-DIRECT" BURIAL SPLICE KIT". THE CONTRACTOR SHALL LABEL ALL WIRES WITH WATERPROOF TAGS AND MARKERS AT ALL SPLICES AND VALVE MANIFOLDS, AND SHALL LEAVE A 24" COIL OF EXCESS WIRE AT EACH CONNECTION.
4. PROVIDE #10 COMMON WIRE, DIRECT BURIAL, TO ALL REMOTE CONTROL VALVES.
5. CONNECT ALL DIRECT BURIAL WIRES TO VALVES USING 3MS "DBY-DIRECT BURIAL SPLICE KIT" (UNLESS OTHERWISE SPECIFIED).
6. PROVIDE THREE ADDITIONAL IRRIGATION CONTROL WIRES ALONG EACH BRANCH OF MAINLINE FOR FUTURE EXPANSION. STUB ADDITIONAL CONTROL WIRES INTO BACK OF IRRIGATION CONTROLLERS.
7. THE IRRIGATION CONTRACTOR SHALL BE RESPONSIBLE FOR INSTALLING ALL CONTROL WIRE SLEEVES AND PIPE SLEEVES UNDER PAVED AREAS PRIOR TO PAVING - SEE SLEEVING NOTES.
- P. INSTALL THE RAIN SENSOR IN THE VICINITY OF THE CONTROLLER AND COORDINATE LOCATION WITH THE OWNER. PROVIDE MINIMUM 5' CLEARANCE FROM OTHER OUTDOOR EQUIPMENT, FREE AND CLEAR OF ANY TREE CANOPY OR OTHER OVERHEAD OBSTRUCTIONS, AND ABOVE THE HEIGHT OF THE SPRINKLER COVERAGE. IT IS THE RESPONSIBILITY OF THE IRRIGATION CONTRACTOR TO ENSURE THE RAIN SENSOR IS PLACED IN A LOCATION WHERE IT CAN RECEIVE ADEQUATE RAINFALL WITHOUT OBSTRUCTIONS. IF IT IS PLACED IN AN INADEQUATE LOCATION, THE IRRIGATION CONTRACTOR MAY BE REQUIRED TO RELOCATE IT AT NO ADDITIONAL COST TO THE OWNER.
- Q. NO PUMP ON SITE.
- R. ALL IRRIGATION EQUIPMENT NOT OTHERWISE DETAILED OR SPECIFIED SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS AND SPECIFICATIONS.
- S. QUALITY CONTROL
1. PERFORM COVERAGE TESTS AFTER IRRIGATION SYSTEM IS COMPLETED, BUT PRIOR TO ANY PLANTING AND PERFORM TESTING IN THE PRESENCE OF THE IRRIGATION DESIGNER AND THE CONSTRUCTION MANAGER.
2. SET SYSTEM TO ASSURE THAT ALL LAWN AND PLANTING AREAS ARE WATERED COMPLETELY AND UNIFORMLY.
3. MAKE ALL NECESSARY ADJUSTMENTS TO PROVIDE COMPLETE COVERAGE, INCLUDING REALIGNMENT OF HEADS AND REPLACEMENT OF NOZZLES.
- T. CLEAN UP
1. DURING IRRIGATION EXCAVATION AND INSTALLATION, KEEP ALL PAVEMENT CLEAN AND ALL WORK AREAS IN A NEAT, ORDERLY CONDITION.
2. DISPOSED LEGALLY OF ALL EXCAVATED MATERIALS OFF THE PROJECT SITE.
- U. INSPECTION AND ACCEPTANCE
1. UPON COMPLETION OF THE WORK, THE IRRIGATION CONTRACTOR SHALL PROVIDE THE SITE CLEAN, FREE OF DEBRIS AND TRASH, AND SUITABLE FOR USE AS INTENDED. THE IRRIGATION CONTRACTOR SHALL THEN REQUEST AN INSPECTION BY THE OWNER TO DETERMINE FINAL ACCEPTABILITY.
2. WHEN THE INSPECTED WORK DOES NOT COMPLY WITH THE CONTRACT DOCUMENTS, THE CONTRACTOR SHALL REPLACE AND/OR REPAIR THE REJECTED WORK TO THE OWNERS SATISFACTION WITHIN 24 HOURS.
3. THE MAINTENANCE PERIOD WILL NOT COMMENCE UNTIL THE WORK HAS BEEN RE-INSPECTED BY THE OWNER AND FOUND TO BE ACCEPTABLE. AT THAT TIME, A WRITTEN NOTICE OF FINAL ACCEPTANCE WILL BE ISSUED BY THE OWNER, AND THE MAINTENANCE AND GUARANTEE PERIODS WILL COMMENCE.
4. CONTROLLER CHART: THE IRRIGATION CONTRACTOR SHALL PROVIDE A 11" X 17" COLOR-CODED, LAMINATED COPY OF THE IRRIGATION LAYOUT AND PLACE IT IN THE CONTROLLER'S COVER. THE CONTROLLER CHART SHALL CLEARLY DELINEATE THE AREAS COVERED BY EACH VALVE, USING A SEPARATE COLOR FOR EACH ZONE.
5. TURN THE FOLLOWING ITEMS IN TO THE OWNER UPON COMPLETION OF THE INSTALLATION:
- a. QUICK COUPLER KEYS (2)
- b. CONTROLLER MANUAL (1)
- c. CONTROLLER KEYS (2)
- d. A MINIMUM OF (2) COPIES OF RECORD DRAWINGS. A RECORD DRAWING IS A RECORD OF ALL CHANGES THAT OCCURRED IN THE FIELD AND THAT ARE DOCUMENTED THROUGH CHANGE ORDERS, ADDENDA, OR CONTRACTOR/CONSULTANT DRAWING MARKUPS.
- V. REFER TO THE PLANTING SPECIFICATIONS FOR ADDITIONAL CONDITIONS OF FINAL ACCEPTANCE AND START OF THE MAINTENANCE PERIOD.
- W. WARRANTY
1. THE IRRIGATION SYSTEM SUPPLIED AND INSTALLED SHALL BE WARRANTED (LABOR AND MATERIALS) TO REMAIN OPERATIONAL FOR A PERIOD OF 12 MONTHS AFTER THE DATE OF FINAL ACCEPTANCE. DURING THIS PERIOD, THE CONTRACTOR SHALL ALSO REPAIR ANY SETTLEMENT OF THE IRRIGATION TRENCHES.
2. BY THE END OF THE WARRANTY PERIOD, ANY IRRIGATION PART THAT IS EITHER NON-OPERATIONAL OR THAT IS OPERATING BELOW STANDARDS AS DETERMINED BY THE OWNER, SHALL BE REMOVED FROM THE SITE AND SHALL BE REPLACED. REPLACEMENTS SHALL BE OF THE SAME KIND AS SPECIFIED IN THE IRRIGATION LEGEND, AND SHALL BE INSTALLED AS ORIGINALLY SPECIFIED.
3. IRRIGATION PARTS DAMAGED OR IMPAIRED DUE TO ACTS OF GOD, VANDALISM, AND/OR THE OWNER'S IMPROPER MAINTENANCE SHALL NOT BE COVERED BY THIS WARRANTY.
- X. SHOULD THE PERMITTING JURISDICTION REQUIRE AN IRRIGATION AUDIT, THE IRRIGATION CONTRACTOR SHALL RETAIN THE SERVICES OF A THIRD-PARTY CERTIFIED LANDSCAPE IRRIGATION AUDITOR, AT NO ADDITIONAL COST TO THE OWNER.

IRRIGATION LEGEND

SYMBOL	MANUFACTURER/MODEL
●	RAIN BIRD R-VAN14 1806-SAM-P45, TURF ROTARY, 8'-14" 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.
⦿	RAIN BIRD R-VAN18 1806-SAM-P45, TURF ROTARY, 13'-18" 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.
⦿	RAIN BIRD R-VAN24 1806-SAM-P45, TURF ROTARY, 17'-24" 45°-270° AND 360° HAND ADJUSTABLE MULTI-STREAM ROTARY W/1800 TURF SPRAY BODY ON 6.0" POP-UP, WITH CHECK VALVE AND 45 PSI IN-STEM PRESSURE REGULATOR. 1/2" NPT FEMALE THREADED INLET.
⦿	RAINBIRD RWS ROOT WATERING SYSTEM MODEL RWS-M-B-C-1402 WITH RWS-SOCK. (TWO PER TREE) SEE INSTALLATION NOTE #N-5 REGARDING TREE BUBBLER LATERAL PIPE
⦿	RAINBIRD XERI-BUG MULTI OUTLET (XBT-10-6) POINT SOURCE DRIP EMITTERS. RAIN BIRD XBT-6 SIX MULTI-OUTLET DRIP EMITTER/BUBBLER SIX-OUTLET, PRESSURE COMPENSATING, DRIP EMITTER. REFERENCE LANDSCAPE PLAN FOR DRIP EMITTER QUANTITIES
▲	RAINBIRD XERI-BUG SINGLE POINT SOURCE DRIP EMITTERS (XBT-10PC) REFERENCE LANDSCAPE PLAN FOR DRIP EMITTER QUANTITIES
⊗	RAINBIRD 5004PCSAMR, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #1.5 LA NOZZLE UNLESS NOTED OTHERWISE
⊗	RAINBIRD 5004FCSAMR, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, FULL CIRCLE, #3.0 LA NOZZLE UNLESS NOTED OTHERWISE
⊗	RAINBIRD 5004PCSAMR, ADJUSTABLE ARC 4" POP UP ROTARY HEAD, PART CIRCLE, #4.0 NOZZLE UNLESS NOTED OTHERWISE
⦿	RAINBIRD XCZ-100-PRB-COM / 150-PRB-COM SERIES AUTOMATIC DRIP VALVE ASSEMBLY WITH 40 PSI PRESSURE REGULATOR XCZ-100-PRB-COM - 1" BALL VALVE WITH 1" PESB VALVE AND 1" PRESSURE REGULATING 40PSI QUICK-CHECK BASKET FILTER. 0.3GPM TO 20GPM.
⦿	RAINBIRD PEB SERIES ELECTRIC REMOTE CONTROL, "TREE BUBBLER ZONE" VALVE SEE INSTALLATION NOTE #N-5 REGARDING TREE BUBBLER LATERAL PIPE
⦿	RAINBIRD PEB SERIES 1", 1-1/2", 2" PLASTIC INDUSTRIAL VALVES. LOW FLOW OPERATING CAPABILITY, GLOBE CONFIGURATION.
	AREA TO RECEIVE DRIPLINE RAINBIRD XFS-CV-06-12 SERIES DRIP TUBE IN SHRUB BED INSTALLED AT 2" DEPTH
	TEMPORARY IRRIGATION
	PIPE TRANSITION POINT ABOVE GRADE PIPE TRANSITION POINT FROM PVC LATERAL TO DRIP TUBING WITH RISER TO ABOVE GRADE INSTALLATION.
	ZURN / WILKINS 375XLB SERIES REDUCED PRESSURE TYPE BACKFLOW PREVENTOR INSTALLED PER CITY CODE WITH HEATED / INSULATED ALUMINUM ENCLOSURE AND SAME SIZE BRONZE BALL VALVE INSTALLED ON THE UP-STREAM SIDE. G.C. TO COORDINATE POWER TO BACKFLOW ENCLOSURE LOCATION PRIOR TO CONSTRUCTION BLOW OFF VALVE TO BE INSTALLED BETWEEN THE METER AND BACKFLOW DEVICE FOR SYSTEM WINTERIZATION
	LASCO "V" SERIES SCH. 80 PVC TRUE UNION BALL VALVE, MAINLINE SIZE RAINBIRD 33DLRC QUICK COUPLER, 3/4"
	RAINBIRD ESP12LXMEF2P SERIES AUTOMATIC WALL MOUNT CONTROLLER WITH TWO ESPLXMSM12 STATION MODULES
	RAINBIRD WR2-RFC RAIN / FREEZE SENSOR - CONFIRM SENSOR LOCATION WITH OWNERS REPRESENTATIVE 1" MASTER VALVE MODEL # 100-EFB-CP WITH RAINBIRD FLOW SENSOR MODEL #FS100P SERIES

IRRIGATION LATERAL LINE: CLASS 200 PVC

IRRIGATION MAINLINE: SCHEDULE 40 PVC

IRRIGATION SLEEVES, SCH. 40 PVC, MIN. TWICE SIZE OF PIPE TO BE INSERTED

IRRIGATION NOTES:

- L.I.C. SHALL SELECT R-VAN SPRAY NOZZLES FOR "HEAD-TO-HEAD" COVERAGE, ADJUSTED FOR NO OVERSPRAY ONTO WALLS AND WALKS. NO OVERSPRAY INTO STREETS IS PERMITTED.
- ALL PIPE TO BE SIZED SUCH THAT FLOWS WILL NOT EXCEED VELOCITY OF 5 FPS
- IRRIGATION CONTRACTOR SHALL PROVIDE 3/4" OF WATER FOR THE REAR PRACTICE FIELD TO LIMIT THE OVERALL WATERING RUN TIME.

WATER CONSERVATION

IRRIGATION WATER CONSERVATION SHALL BE ACCOMPLISHED THROUGH THE FOLLOWING EFFORTS:

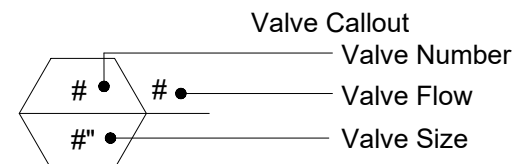
- SEPARATE TURF / SHRUB ZONES FOR SCHEDULING ADJUSTMENT
- NO OVERSPRAY ONTO PAVEMENT PERMITTED
- USE OF RAIN SENSOR SHUT OFF OVER-RIDE DEVICE

LATERAL PIPE SIZE CHART

LATERAL PIPE SHALL BE SIZED TO ALLOW A MAXIMUM FLOW VELOCITY OF FIVE FEET PER SECOND ACCORDING TO THE FOLLOWING CHART:

FLOW IN GPM	LATERAL PIPE SIZE
UP TO 5 GPM	3/4" CLASS 200
6 - 10 GPM	3/4" CLASS 200
11 - 15 GPM	1" CLASS 200
16 - 28 GPM	1 1/4" CLASS 200
29 - 35 GPM	1 1/2" CLASS 200
36 - 54 GPM	2" CLASS 200
55 - 81 GPM	2 1/2" CLASS 200
82 - 120 GPM	3" CLASS 200

VALVE KEY



CRITICAL ANALYSIS

P.O.C. NUMBER: 01
Water Source Information: Irrigation Meter, By Others

FLOW AVAILABLE
Domestic Water Meter Size: 3/4"
Flow Available: 18 gpm

PRESSURE AVAILABLE
Static Pressure at POC (est.): 68.00 psi
Elevation Change: NA
Service Line Size: NA
Length of Service Line: NA
Pressure Available: 65.00 psi

DESIGN ANALYSIS
Maximum Station Flow: 14.0 gpm
Flow Available at POC: 18.0 gpm
Residual Flow Available: 4.0 gpm

Critical Station: 9
Head Pressure Required: 35.0 psi
Lateral Loss: 3.5 psi
Loss through Valve: 4.8 psi
Pressure Req. at Critical Station: 40.3 psi
Loss for Main Line: 1.6 psi
Loss for Fittings 20% (Main Line): 0.32 psi
Loss for Master Valve: 1.7 psi
Loss for Backflow: 11.0 psi
Loss for Water Meter: 3.1 psi
Critical Station Pressure at POC: 57.92 psi
Pressure Available: 65.00 psi
Residual Pressure Available: 7.08 psi

HONOR CHARTER
ACADEMY
BENT GRASS MEADOWS DRIVE
PEYTON, CO

IRRIGATION SPECIFICATIONS

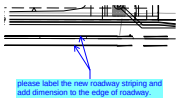
Date	Comment

Project Number
Date: 06/26/2026
Drawn By: JML
Checked By: KB

LI-3

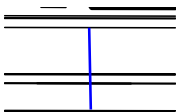
V3_Construction Drawings (Plans-Profiles).pdf Markup Summary

Bret Dilts - DPW Engineering (6)



Subject: Engineer
Page Label: [7] 7 Signage and Striping Plan
Author: Bret Dilts - DPW Engineering
Date: 9/15/2026 1:34:48 PM
Status:
Color: ■
Layer:
Space:

please label the new roadway striping and add dimension to the edge of roadway.



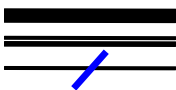
Subject: Line
Page Label: [7] 7 Signage and Striping Plan
Author: Bret Dilts - DPW Engineering
Date: 9/15/2026 1:28:57 PM
Status:
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Layer:
Space:



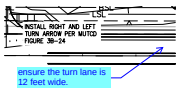
Subject: Line
Page Label: [7] 7 Signage and Striping Plan
Author: Bret Dilts - DPW Engineering
Date: 9/15/2026 1:29:13 PM
Status:
Color: ■
Layer:
Space:



Subject: Line
Page Label: [7] 7 Signage and Striping Plan
Author: Bret Dilts - DPW Engineering
Date: 9/15/2026 1:29:20 PM
Status:
Color: ■
Layer:
Space:

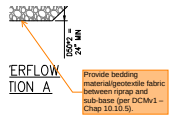


Subject: Line
Page Label: [7] 7 Signage and Striping Plan
Author: Bret Dilts - DPW Engineering
Date: 9/15/2026 1:29:24 PM
Status:
Color: ■
Layer:
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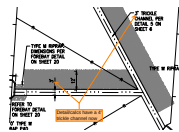
Subject: Engineer
Page Label: [7] 7 Signage and Striping Plan
Author: Bret Dilts - DPW Engineering
Date: 9/15/2026 1:34:41 PM
Status:
Color: ■
Layer:
Space:

ensure the turn lane is 12 feet wide.



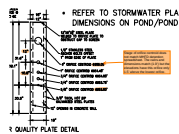
Subject: SW - Textbox with Arrow
Page Label: [15] 15 Stormwater Plan
Author: EPC Stormwater- Zachary
Date: 9/14/2026 11:24:50 AM
Status:
Color:
Layer:
Space:

Provide bedding material/geotextile fabric between riprap and sub-base (per DCMv1 – Chap 10.10.5).



Subject: SW - Textbox with Arrow
Page Label: [15] 15 Stormwater Plan
Author: EPC Stormwater- Zachary
Date: 9/14/2026 11:26:55 AM
Status:
Color:
Layer:
Space:

Detail/calcs have a 4' trickle channel now



Subject: Group
Page Label: [20] 20 Storm Details 2
Author: EPC Stormwater- Zachary
Date: 9/14/2026 1:57:32 PM
Status:
Color:
Layer:
Space:

Stage of orifice centroid does not match MHFD detention spreadsheet. The calcs and dimensions match (1.9') but the elevations have this orifice only 1.5' above the lowest orifice.