

**APPROXIMATE SUMMARY OF QUANTITIES**

SANITARY SEWER	UNITS	UNIT
PIPE SDR35 18"	264	LF
PIPE C900 3"	455	LF
MANHOLE 4'DIA	4	EA
SERVICES 4"SDR35	27	EA

WATER LINE	UNITS	UNIT
PIPE C900 8"	1170	LF
FIRE HYDRANT w/ 6" valve & pipe	3	EA
FLUSHING HYDRANT 2"x2.5"	1	EA
VALVE 8"	2	EA
SERVICES 1.25"	28	EA

STORMDRAIN	UNITS	UNIT
SMOOTH WAL 24"	437	LF
SMOOTH WAL 18"	239	LF
MANHOLE 5'DIA	2	EA
MANHOLE 6'DIA	1	EA
FLARED END 24"	2	EA
FLARED END 18"	3	EA
RIPRAP d50 = 6"	9	CY
EARTH WORK/CUT	293	CY
EARTH WORK/FILL	133	CY

FORD'S WAY	UNITS	UNIT
EARTH WORK/CUT	2	CY
EARTH WORK/FILL	396	CY
BASE CLASS 16"	746	TONS
ASPHALT 3"	384	TONS

PATH	UNITS	UNIT
EARTH WORK/CUT	62	CY
EARTH WORK/FILL	1368	CY
BASE CLASS 13"X9"	223	TONS

CONTOUR INTERVAL: 2'

**LEGEND**

- FOUND BOUNDARY MARKER SECTION
- FOUND BOUNDARY MARKER
- PHONE PEDESTAL
- ELECTRIC PEDESTAL
- SEWER MANHOLE
- SANITARY SEWER LINE
- EXISTING WATER LINE
- CULVERT
- EXISTING FIRE HYDRANT
- PROPOSED FIRE HYDRANT
- WATER SHUTOFF
- END OF SEWER SERVICE
- PROPOSED SEWER LINE
- PROPOSED SEWER SERVICE LINE
- PROPOSED WATER LINE

SNOW STORAGE	20,943SF
FORD'S WAY	9,400SF
DRIVEWAYS LOT 11A-16B	30,343SF
TOTAL	60,686SF
PROVIDED STORAGE	11,657SF
PERCENT	38.4%

**PROJECT NOTES**

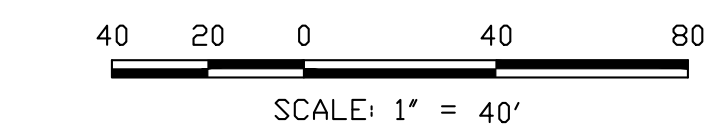
- All installation of utilities shall conform to Crested Butte South Metropolitan District's Specifications and Requirements.
- Prior to acceptance, all lines shall be tested using the AWWA C600 hydrostatic test procedure. The District may require pressure testing on the manholes.
- State procedures for disinfection of the water main shall be used. Contractor shall submit a disinfection plan for District approval prior to any disinfection.
- All backfill shall be compacted to a minimum of 95% standard proctor or approved alternate with maximum lifts of 8".
- Prior to installation of any sewer main, the end of the existing main shall be potholed so that the actual invert elevation can be determined so adjustment of the sewer main extension can be made.
- Project Benchmark: Top of plastic cap, LS No. 38048, at the southwest corner of the northerly half of Block 6. Elevation 8600.7'.

**GENERAL NOTES**

- The Contractor shall drive equipment or any vehicles on the excavated subgrade.
- No construction shall begin until the Owner has issued the Notice to Proceed and a Pre-Construction Meeting has been held.
- The type, size, location and number of all known underground utilities are approximate as shown on the drawings. It shall be the responsibility of the Contractor to verify the existence and location of all underground utilities along the route of the work.
- The Contractor shall contact the Utility Notification Center of Colorado (UNCC) at 811 at least 3 working days prior to beginning excavation or grading in the area of UNCC registered lines and have those utility locations marked by member companies. All other utility lines are to be located by contacting the respective representative. Utility service laterals are also to be located prior to beginning excavation or grading. It shall be the Contractor's sole responsibility for locating and protecting all utilities during construction and for coordinating with the appropriate utility company for any utility crossings required.
- All existing property that is not part of this project that is damaged by the Contractor in the course of the work shall be replaced at the Contractor's expense prior to the acceptance of the completed improvements and prior to Final Payment by the Owner.
- Prior to the commencement of any construction that will affect traffic signs of any type, the Contractor shall contact the CBSMD (970) 349-5480. The contractor shall temporarily remove or relocate the signs. Signs that are not immediately relocated shall have like temporary signs placed in a manner that will function the same as the original sign. Temporary signs shall be part of the project.
- Prior to final inspection and acceptance of the improvements and prior to Final Payment by the CBSMD, the Owner's Engineer shall certify the elevations and location of the as-constructed project. Any work found to be unacceptable to the Owner shall be removed and replaced at no additional cost to the Owner.
- All trash on the site will be pick up and placed in the job site dumpster, by the Contractor. If a dumpster is not available, the Contractor and/or their employees will remove the trash from the site. Any trash left at the site will be picked up by the Owner and the Contractor will be charged \$200 for each occurrence.
- The Contractor(s) shall keep a current, clean, dry set of record drawings and the project specifications, and any amendments thereto, on site at all times. Contractor(s) shall redline actual locations and dimensions for vertical and horizontal locations of constructed, utilities, structures, services and other details deferent from or not shown on the original drawings. If said actual locations affect the design and construction of the project, The Contractor shall contact the Owner and Engineer prior to making any field changes to the design and/or construction details shown on the current record drawings. Owner and Engineer must authorize any changes to the design and/or construction details and, if necessary, issue a Change Order prior to the Contractor proceeding with the work.
- The Owner will provide the services of a registered Colorado Land Surveyor to survey the constructed items and other locations requested by the Owner. The surveyor will certify in a letter to the that these elevations conform to the record drawings and specifications. Any deviations shall be noted in the letter and then resolved to the satisfaction of the Owner before any installation of base course, concrete or asphalt.
- If a conflict exists and/or a design modification is required for any reason, the Contractor shall immediately notify the Owner and Engineer to coordinate the design and to obtain approval from the Owner and/or respective utility or other affected agency prior to beginning construction.
- All construction activities must comply with the State of Colorado permitting process for "Stormwater Discharges Associated with Construction Activity." For information, please contact the Colorado Department of Health, Water Quality Control Division, WQCD-PE-B2, 4300 Cherry Creek Drive South, Denver, Colorado 80222-1530. Attention: Permits Enforcement Section. Ph: (303) 692-3590. Identifying the need for a permit, preparing the application, and paying for the review and submittal fees necessary to secure this permit, will be the responsibility of the Owner. The Contractor shall be responsible for maintaining all requirements of the permit.
- All necessary permits for this project which may include, but are not limited to, the abovementioned Colorado Department of Health permit, excavation permits, and/or street cut permits must be obtained prior to commencement of construction.

**INDEX**

SHEET COVER	PAGE 1
FORD'S PLAN AND PROFILE	2
SEWER PLAN AND PROFILE	3
WATER PLAN AND PROFILE	4
STORMDRAIN PLAN AND PROFILE	5
DETAILS	6
PATH SECTIONS	7
STORMDRAIN ALT. PLAN AND PROFILE	8
STORMDRAIN ALT. SECTIONS	9

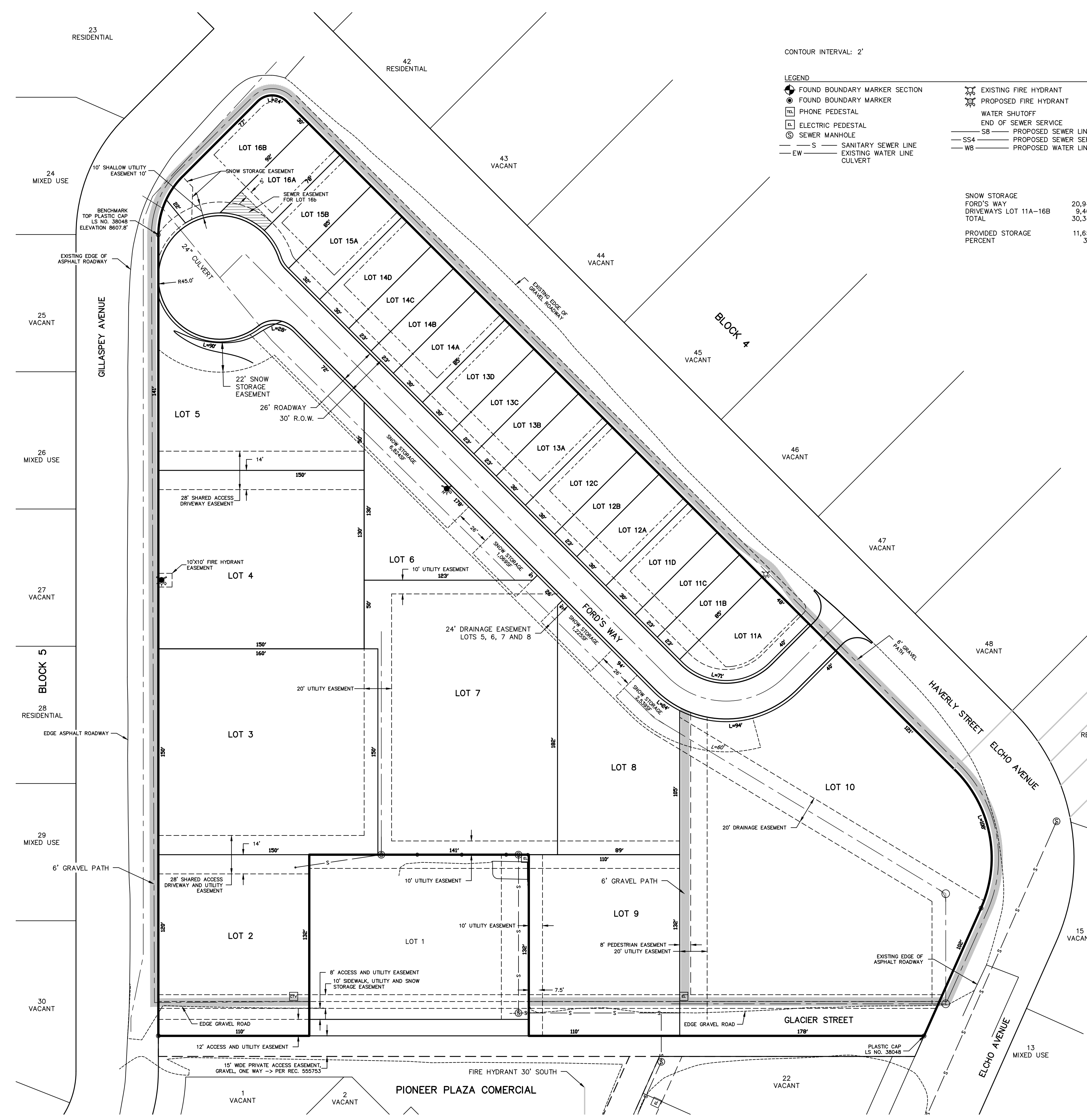


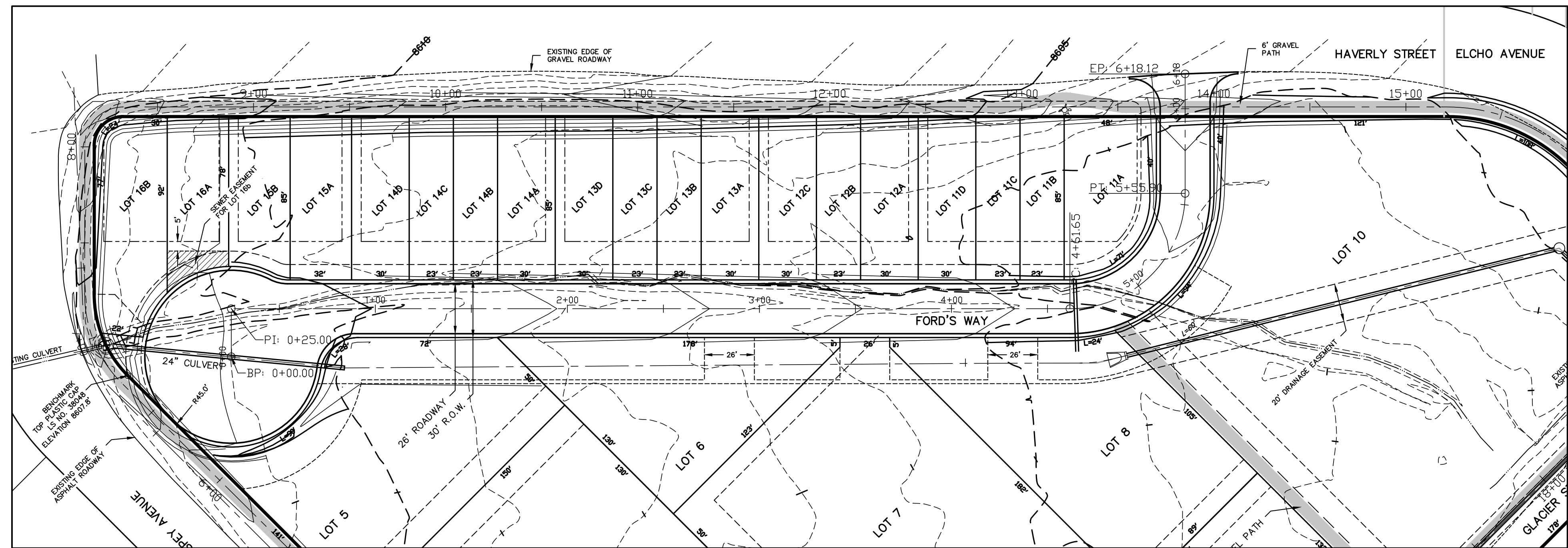
**BLOCK 6 SUBDIVISION TWO  
GUNNISON COUNTY, COLORADO**

**OVERALL SITE PLAN**

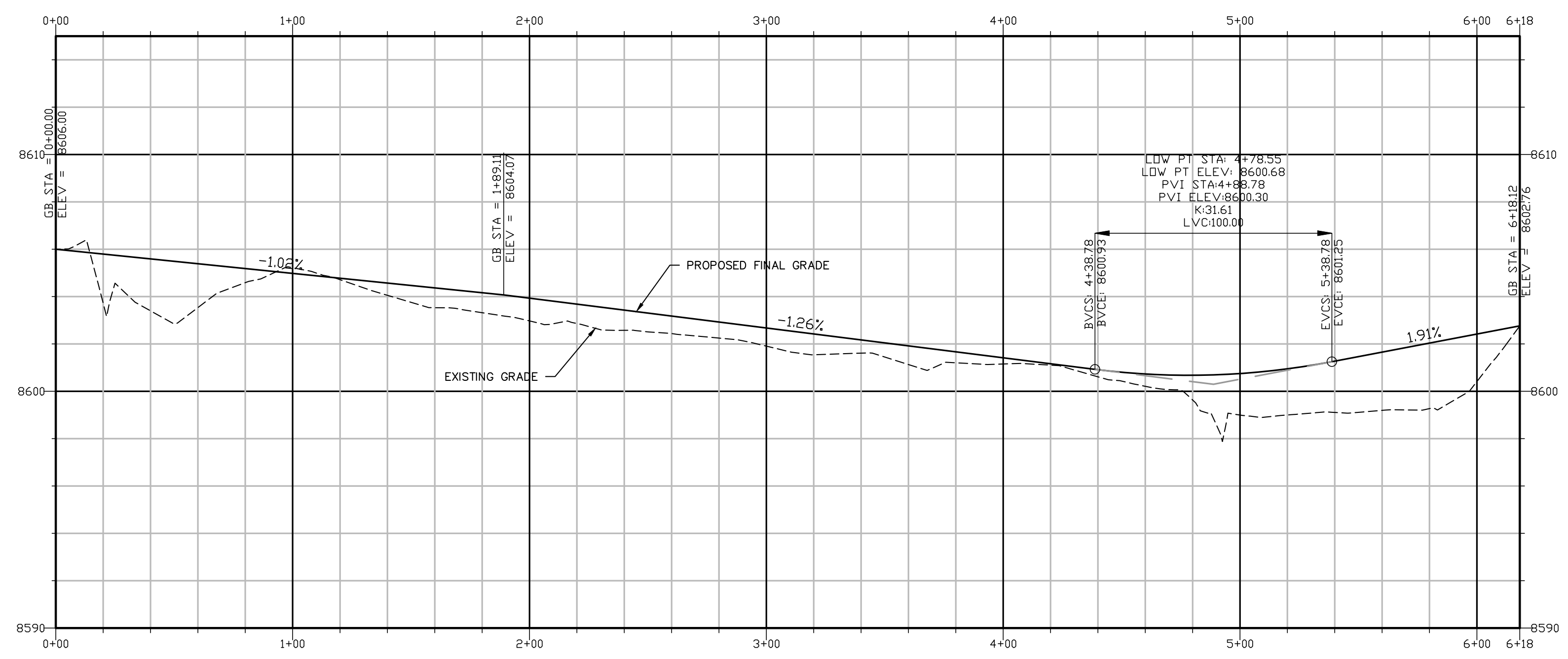
Prepared By:	NCW & Associates, Inc.
P.O. Box 3688	Crested Butte
272 Coren St.	Colorado 81224
(970) 349-6384	Fax (970) 349-6297
PROJECT: 21248.00	DWG.: PRESTE
DATE: 6/8/24	SHEET 1 OF 9

ORIGINAL SHEET SIZE = 24"x36"  
CONTOUR INTERVAL 1'

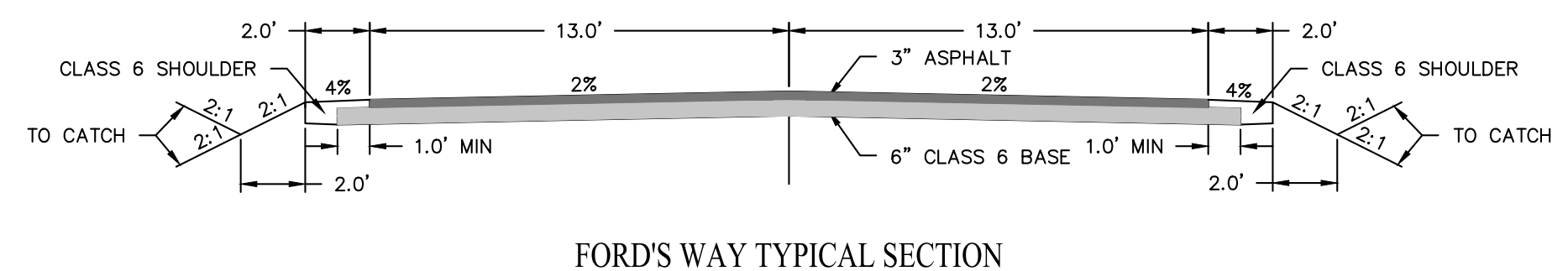




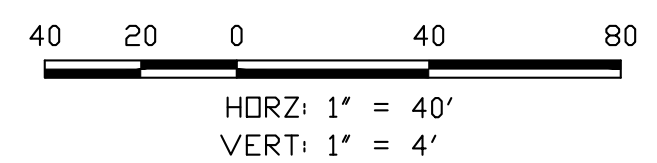
PLAN



PROFILE

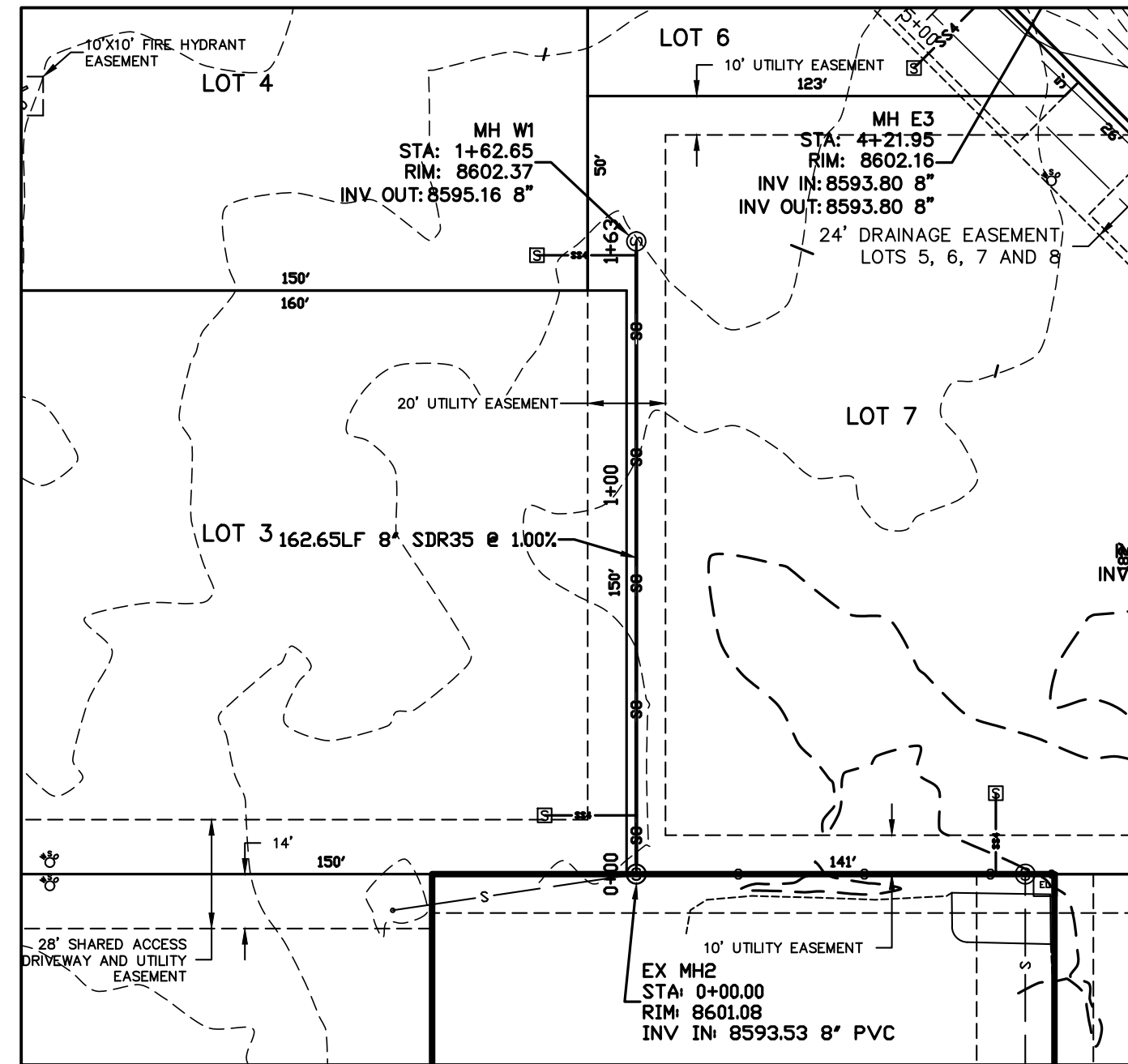


FORD'S WAY TYPICAL SECTION

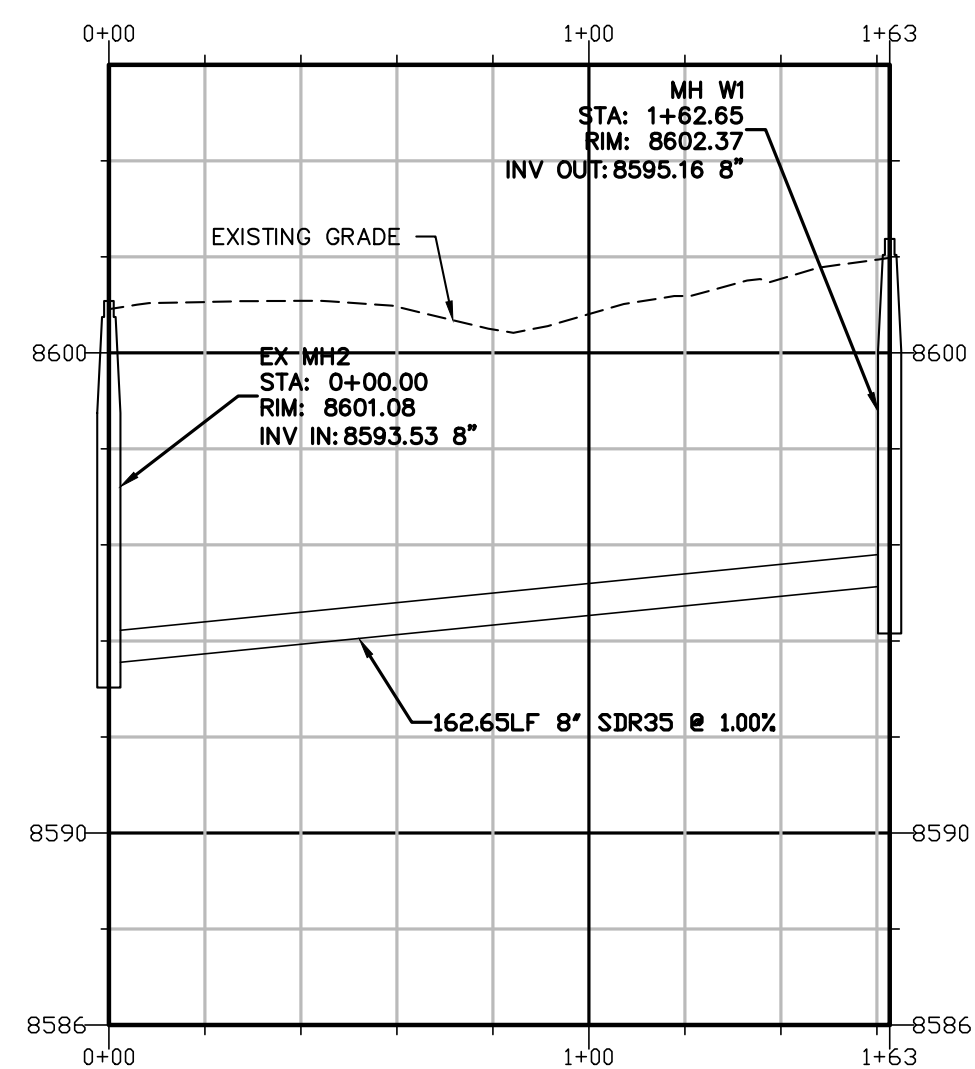


BLOCK 6 SUBDIVISION TWO GUNNISON COUNTY, COLORADO	
FORD'S WAY PLAN AND PROFILE	
Prepared By: NCW & Associates, Inc. P.O. Box 3688, Crested Butte, Colorado 81224 (970) 349-6384, Fax (970) 349-6297	
PROJECT: 21248.00	DWG.: PRESITE
DATE: 6/8/24	SHEET 2 OF 9

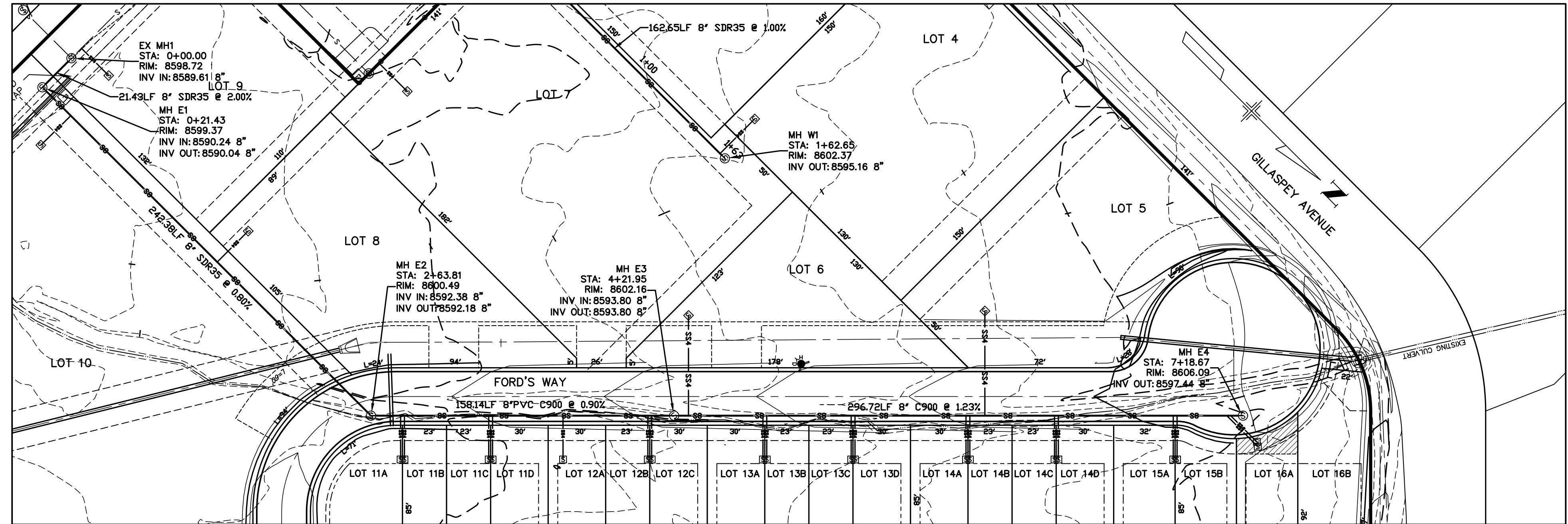
ORIGINAL SHEET SIZE = 24"x36"



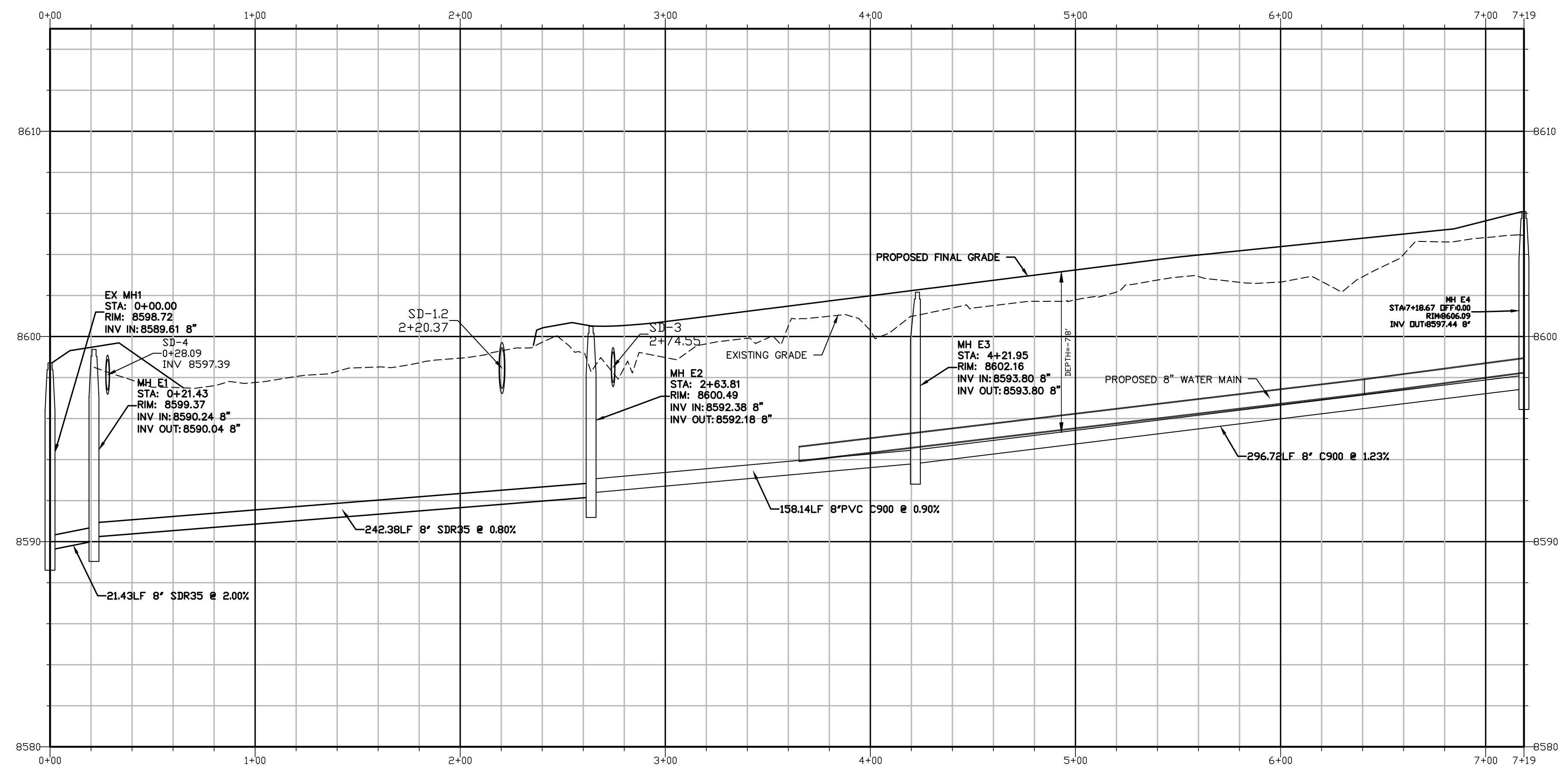
WEST SEWER PLAN



WEST SEWER PROFILE



EAST SEWER PLAN

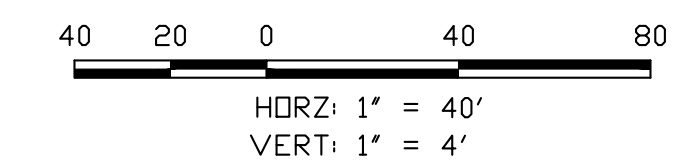


EAST SEWER PROFILE

NOTES:

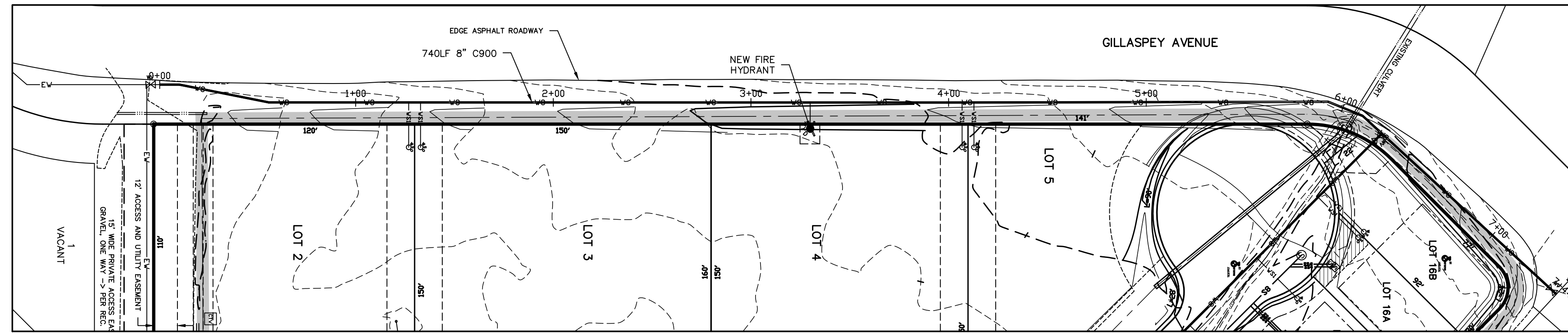
- SEWER SERVICES FOR LOTS 2 THROUGH 16B SHALL BE INSTALLED BY THE CONTRACTOR.

SEWER SERVICE. WATER TIGHT CAP WITH MARKER

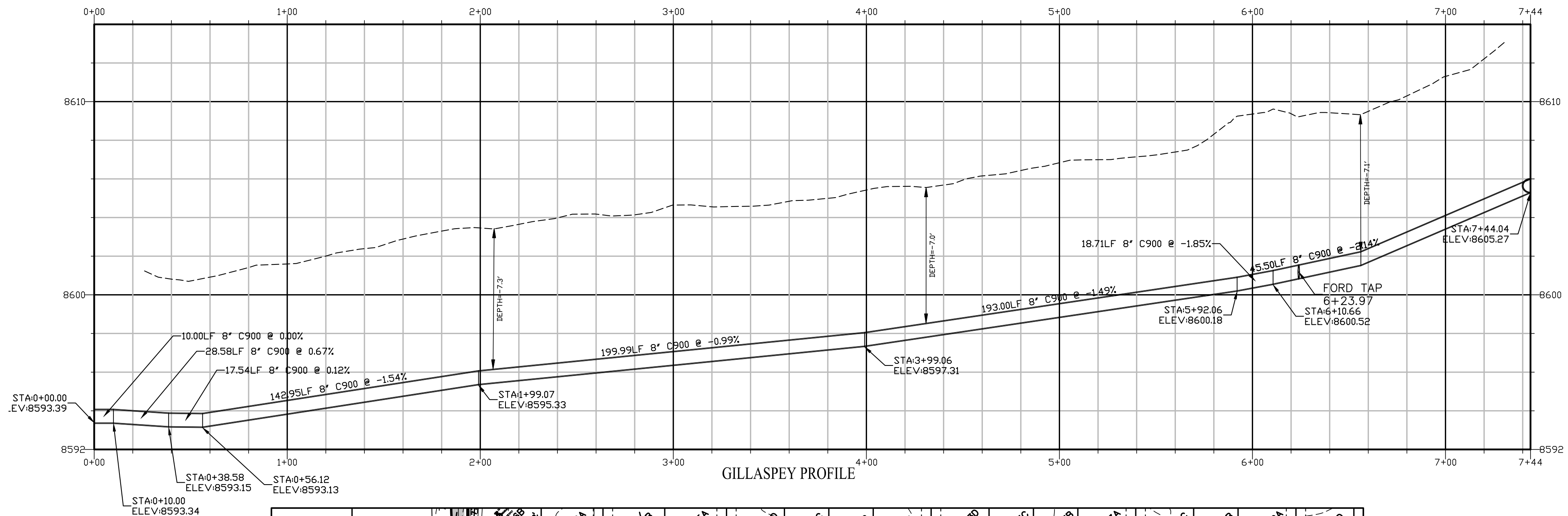


BLOCK 6 SUBDIVISION TWO GUNNISON COUNTY, COLORADO	
SANITARY SEWER PLAN AND PROFILE	
Prepared By: NCW & Associates, Inc. P.O. Box 3688 Crested Butte 272 Goren St. Colorado 81224 (970) 349-6384 Fax (970) 349-6297	
PROJECT: 21248.00	DWG.: PRE SITE
DATE: 6/8/24	SHEET 3 OF 9

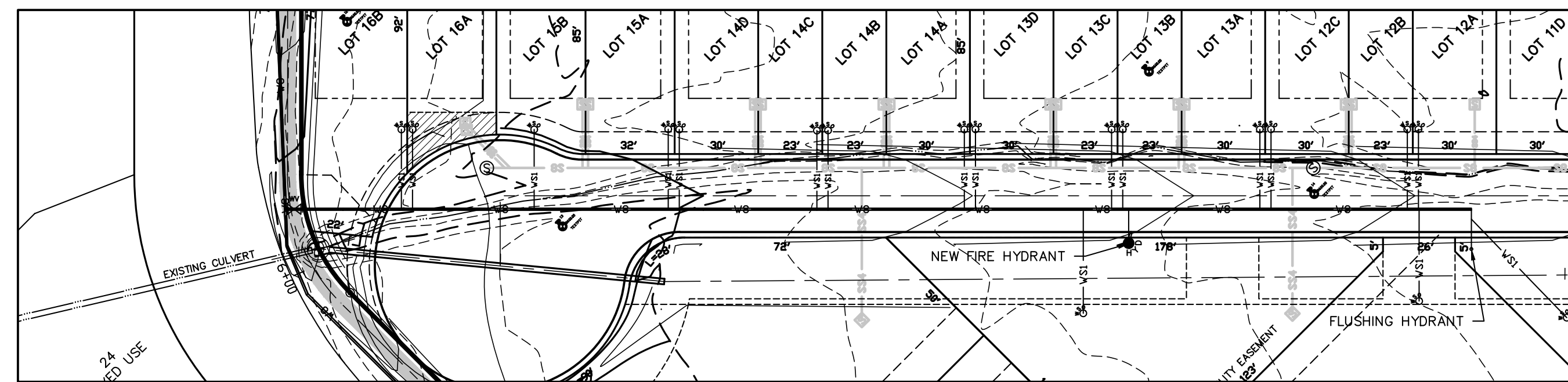
ORIGINAL SHEET SIZE = 24" x 36"



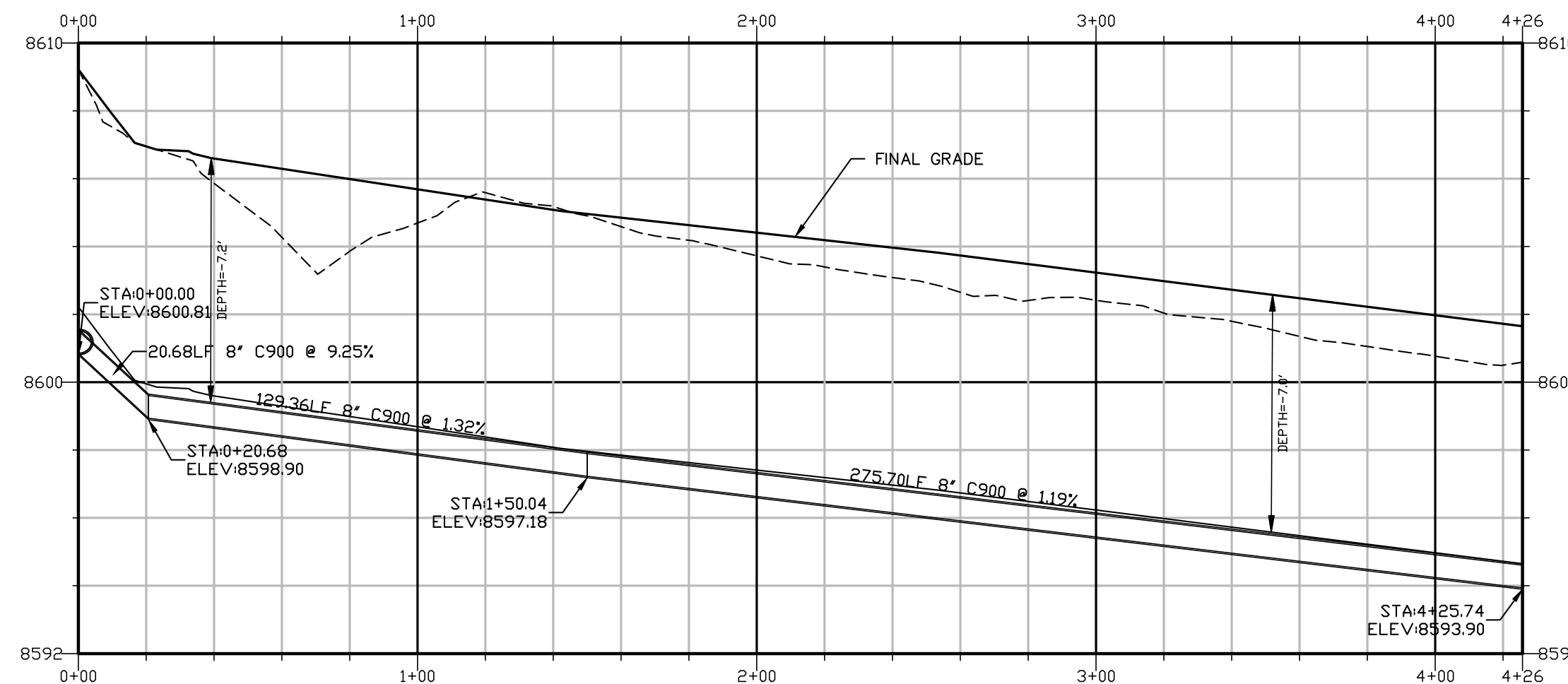
GILLASPEY PLAN



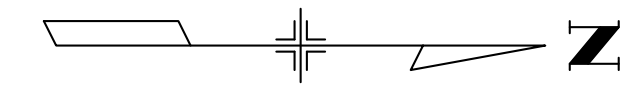
GILLASPEY PROFILE



FORD'S WAY PLAN

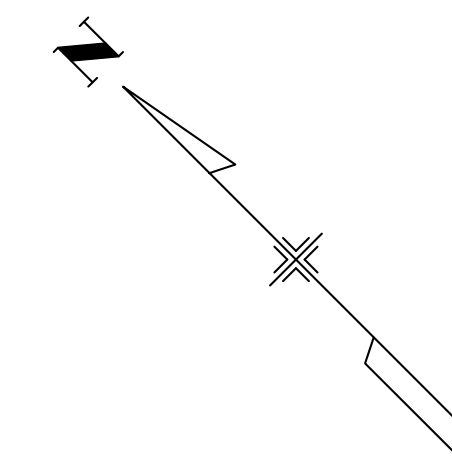


FORD'S WAY PROFILE



- NOTES:
1. WATER SERVICES FOR LOTS 2 THROUGH 16B SHALL BE INSTALLED BY THE CONTRACTOR.

WSL 1.25\"/>



HORZ: 1\"/>

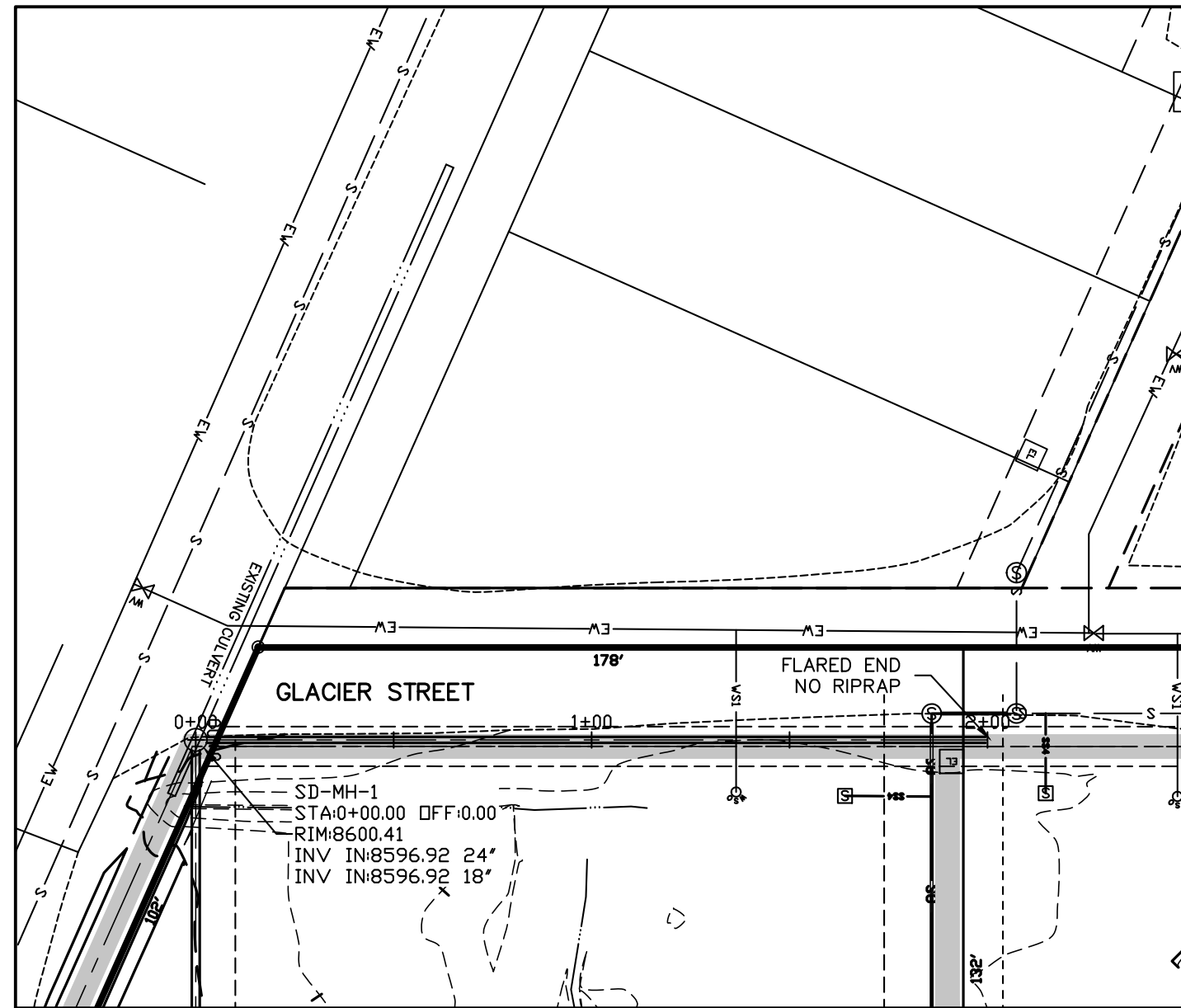
BLOCK 6 SUBDIVISION TWO  
GUNNISON COUNTY, COLORADO

WATER LINE PLAN AND PROFILE

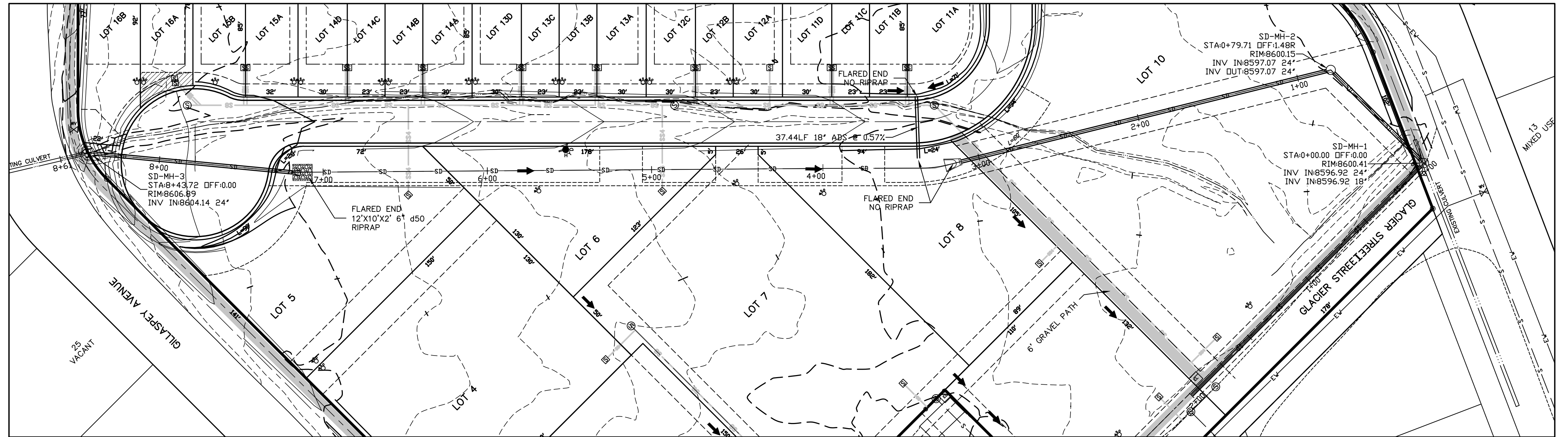
Prepared By:  
NCW & Associates, Inc.  
P.O. Box 3688 Crested Butte  
272 Goren St. Colorado 81224  
(970) 349-6384 Fax (970) 349-6297

PROJECT: 21248.00 DWG.: PRESITE  
DATE: 6/8/24 SHEET 4 OF 9

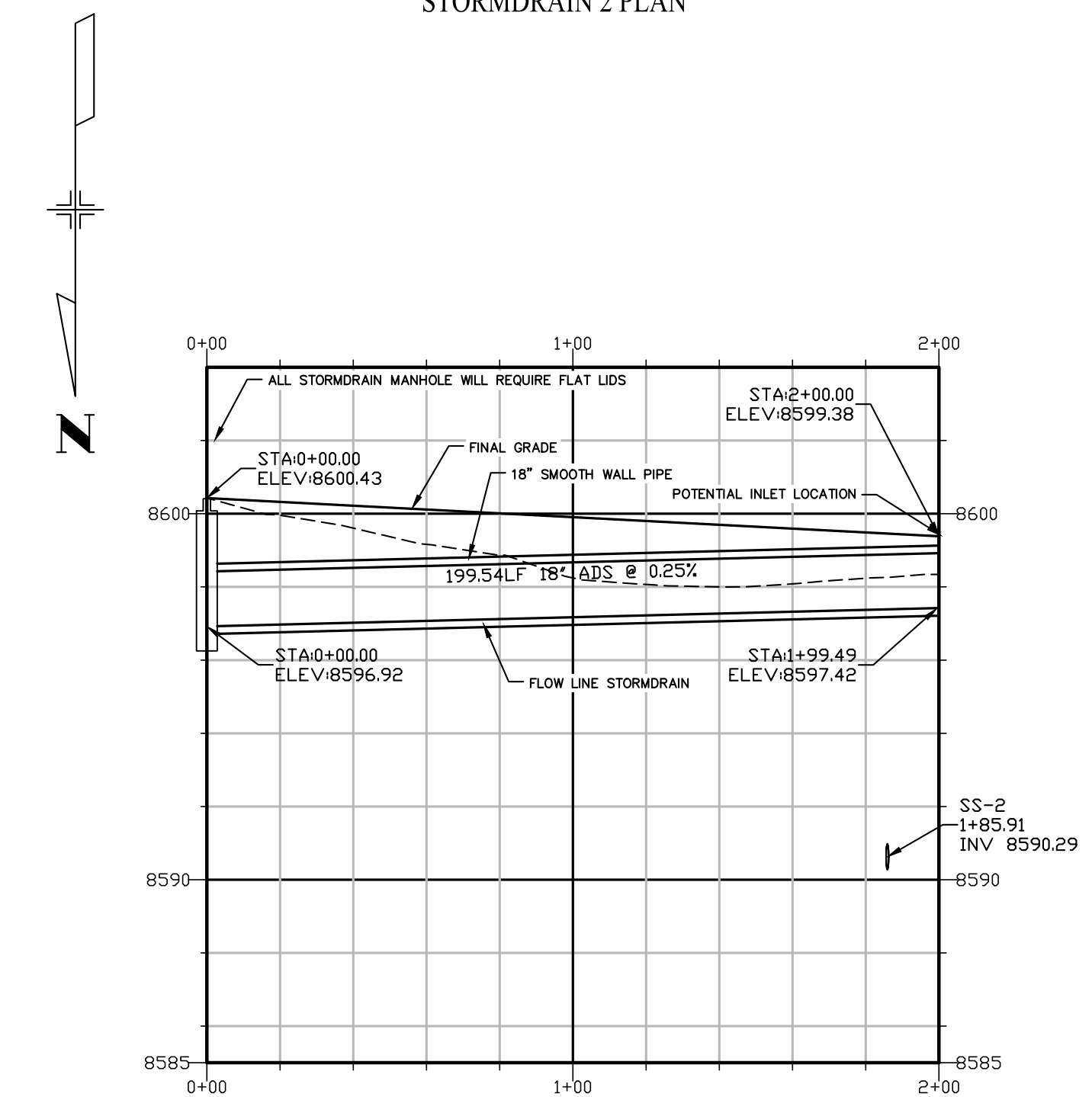




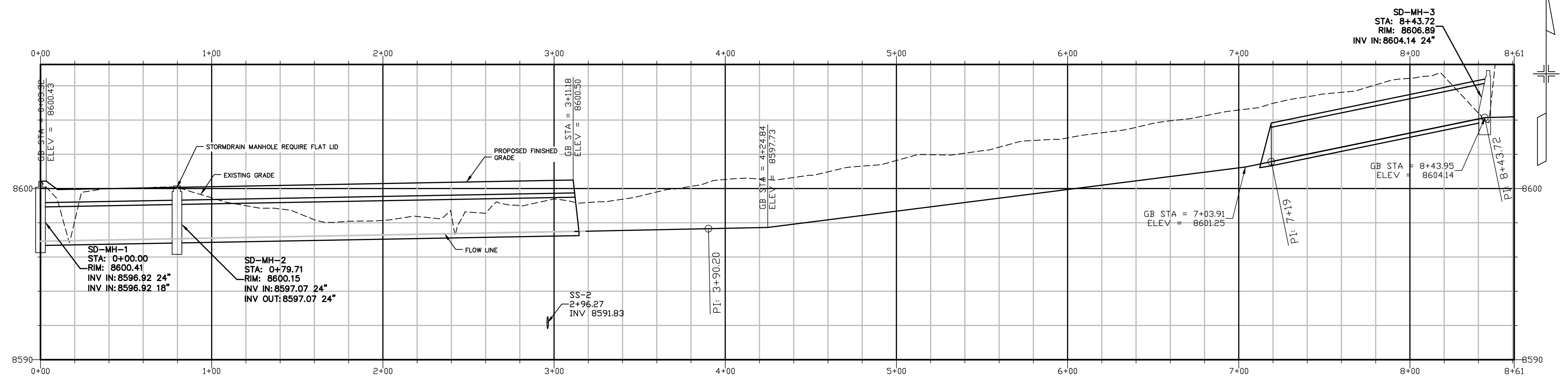
STORMDRAIN 2 PLAN



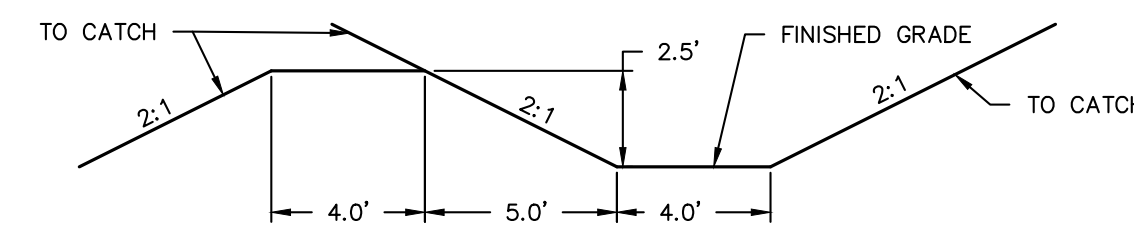
STORMDRAIN 1 PLAN



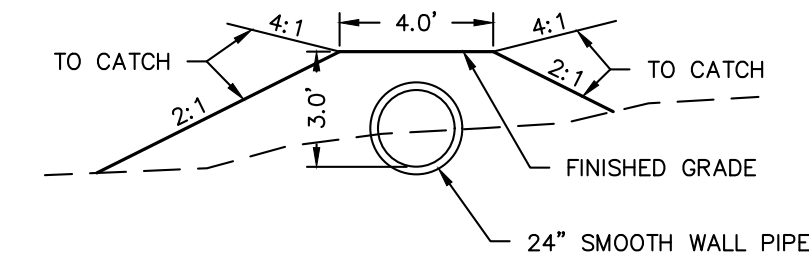
STORMDRAIN 2 PROFILE



STORMDRAIN 1 PROFILE

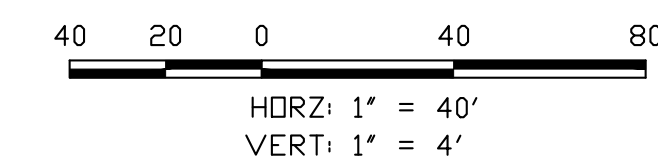


TYPICAL SECTION  
STA. 3+11 TO 7+19



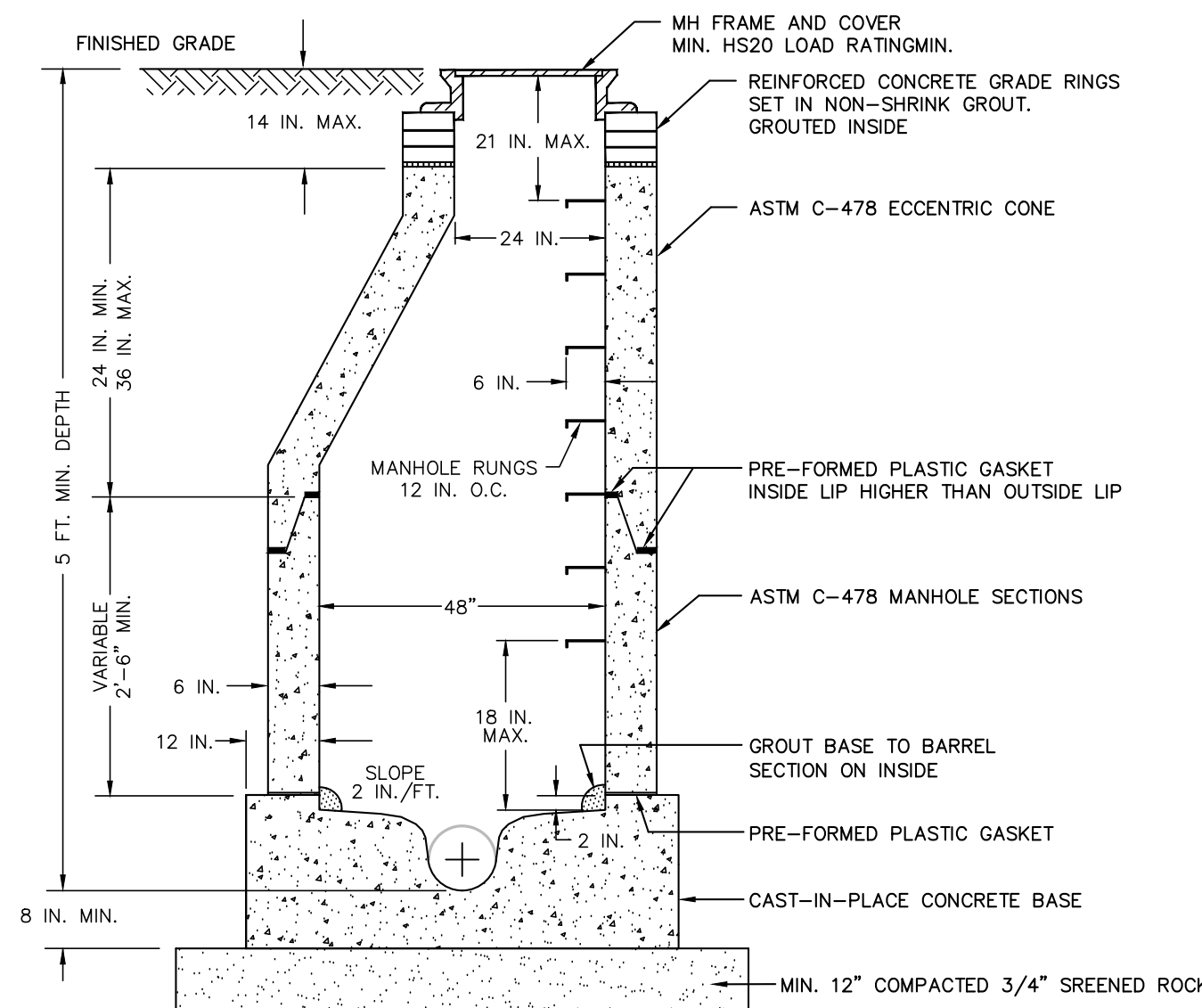
TYPICAL SECTION  
STA. 0+03 TO 3+11

NOTE:  
ADS OR SIMILAR PIPES SHALL  
BE BACK FILL WITH AN  
ANGULAR MATERIAL PER  
MANUFACTURER'S  
RECOMMENDATIONS.



BLOCK 6 SUBDIVISION TWO GUNNISON COUNTY, COLORADO	
STORMDRAIN PLAN AND PROFILE	
Prepared By: NCW & Associates, Inc. P.O. Box 3688, Crested Butte, Colorado 81224 (970) 349-6384, Fax (970) 349-6297	
PROJECT: 21248.00	DWG.: PRESITE
DATE: 6/8/24	SHEET 5 OF 9

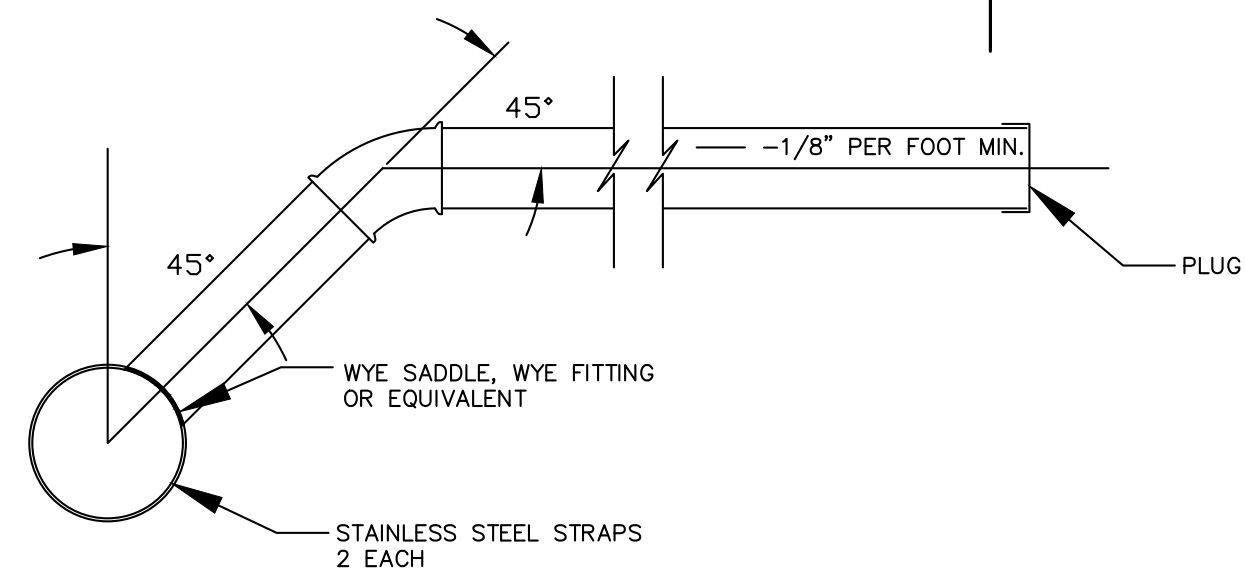
ORIGINAL SHEET SIZE = 24"x36"



LARGER LINE SIZE (INCHES)	ELBOWS				TEES & GATE VALVES	
	90°	45°	22.5°	11.25°	DEAD ENDS	VALVES
4	1.8	1.0	0.5	0	1.3	0.5
6	4.0	2.2	1.1	0	2.8	0.7
8	7.1	3.8	2.0	1.0	5.0	2.4
10	11.1	6.0	3.0	1.5	7.8	4.5

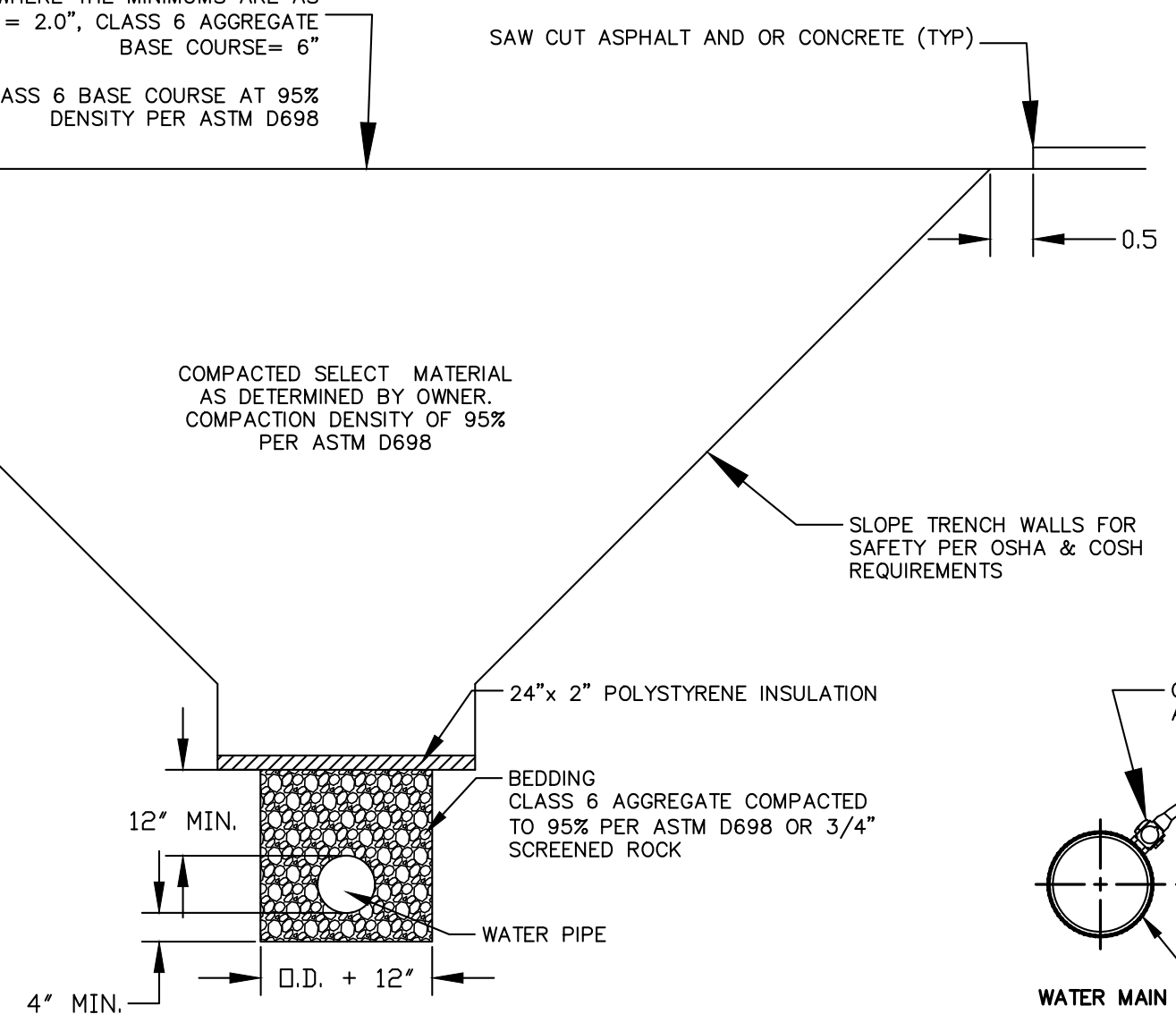
BEARING AREA IN SQ. FT.

TYPICAL CONCRETE THRUST BLOCK TABLE

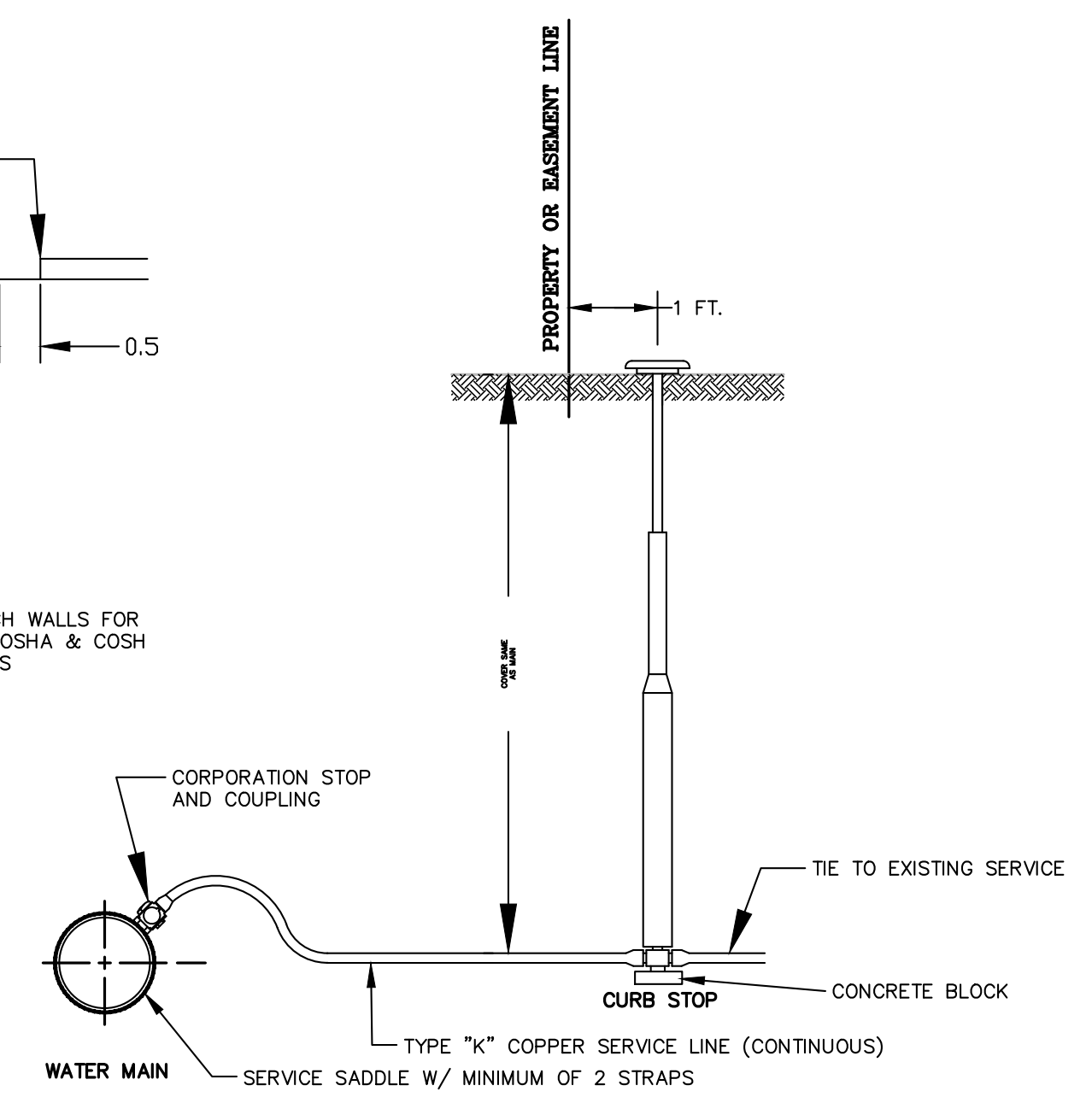


TYPICAL SEWER SERVICE CONNECTION DETAIL  
N.T.S.

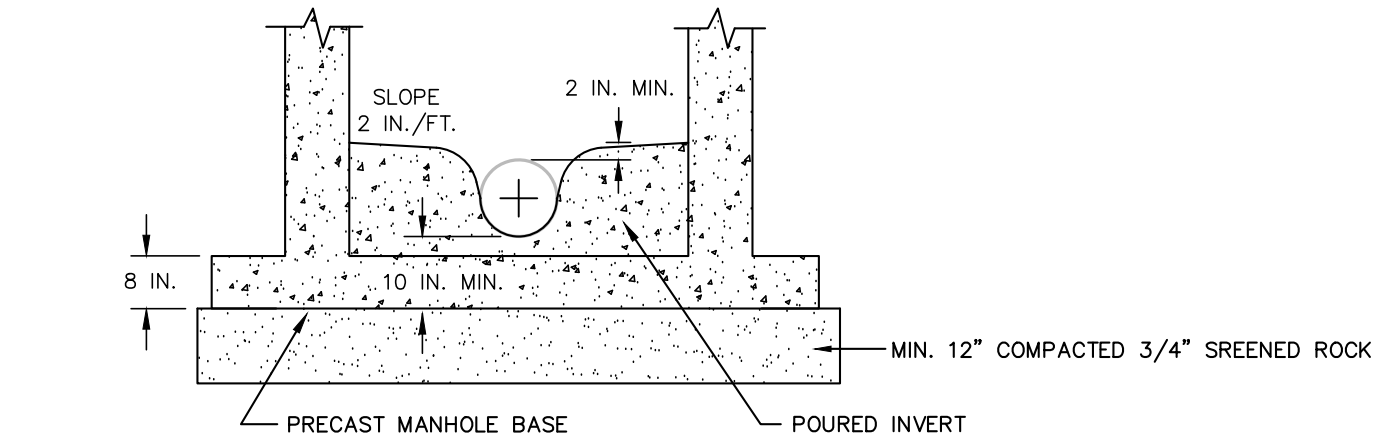
PAVEMENT REPLACEMENT SHALL MEET EXISTING THICKNESS AND KIND WITH THE FOLLOWING MINIMUMS: ASPHALT SURFACING = 3.0", CLASS 6 AGGREGATE BASE COURSE = 8" EXCEPT IN PARKING LOT AREA WHERE THE MINIMUMS ARE AS FOLLOWS: ASPHALT SURFACING = 2.0", CLASS 6 AGGREGATE BASE COURSE = 6"  
IN ALLEYS, PLACE 12"x4" OF CLASS 6 BASE COURSE AT 95% DENSITY PER ASTM D698



TYPICAL TRENCH DETAIL  
N.T.S.

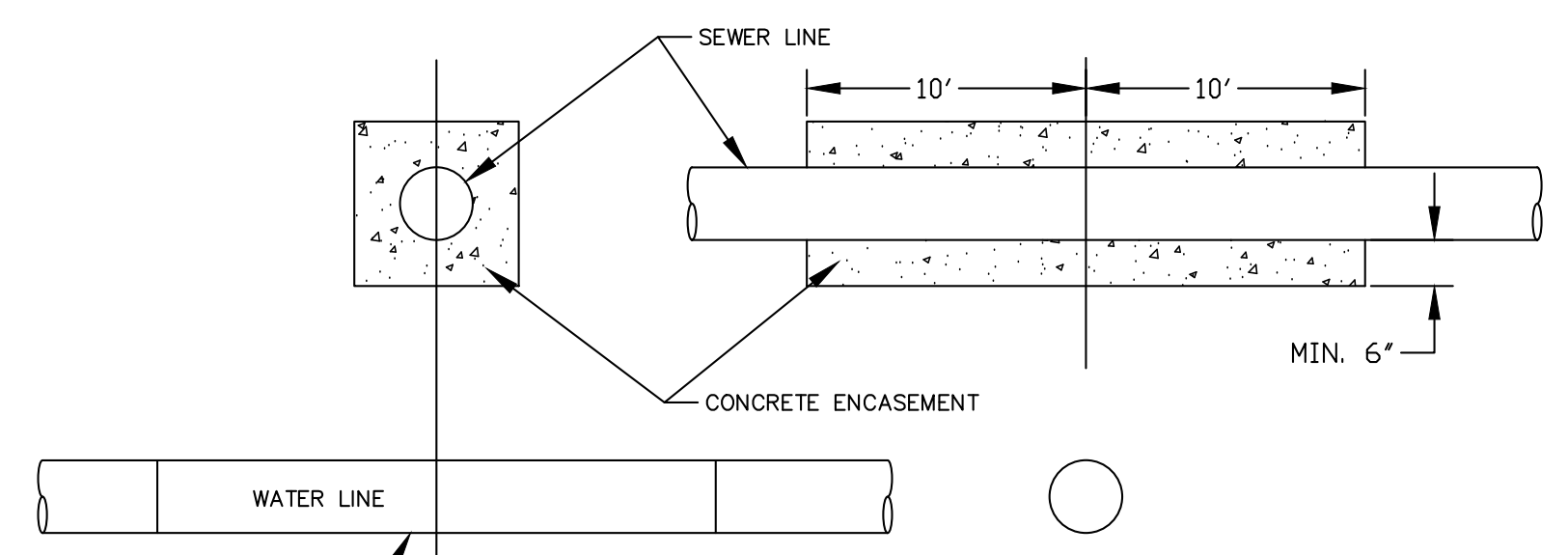


TYPICAL WATER SERVICE DETAIL  
N.T.S.



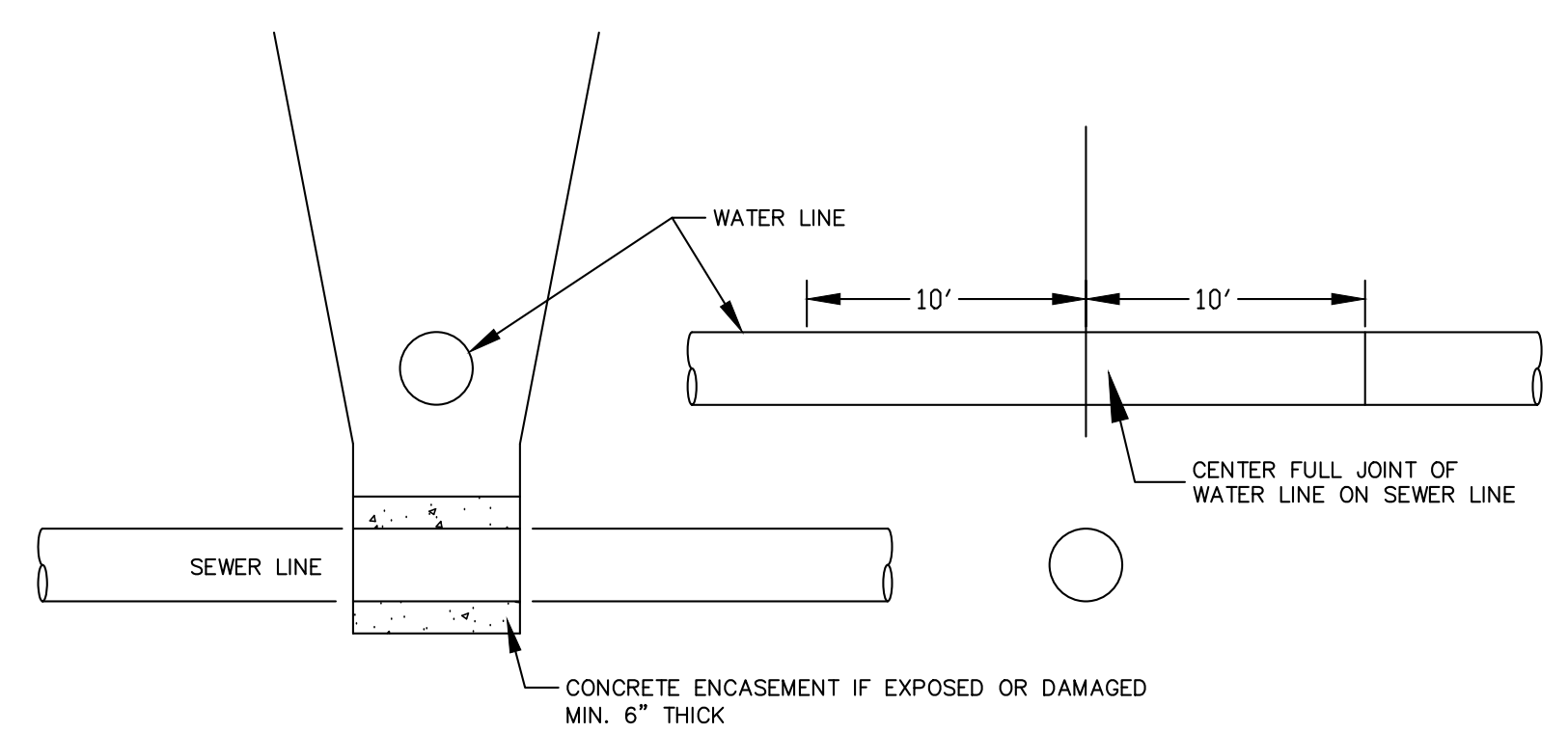
TYPICAL SEWER MANHOLE DETAIL  
N.T.S.

NOTE:  
1. ALL CONCRETE WORK SHALL COMPLY WITH THE LATEST ACI-318 SPECIFICATIONS



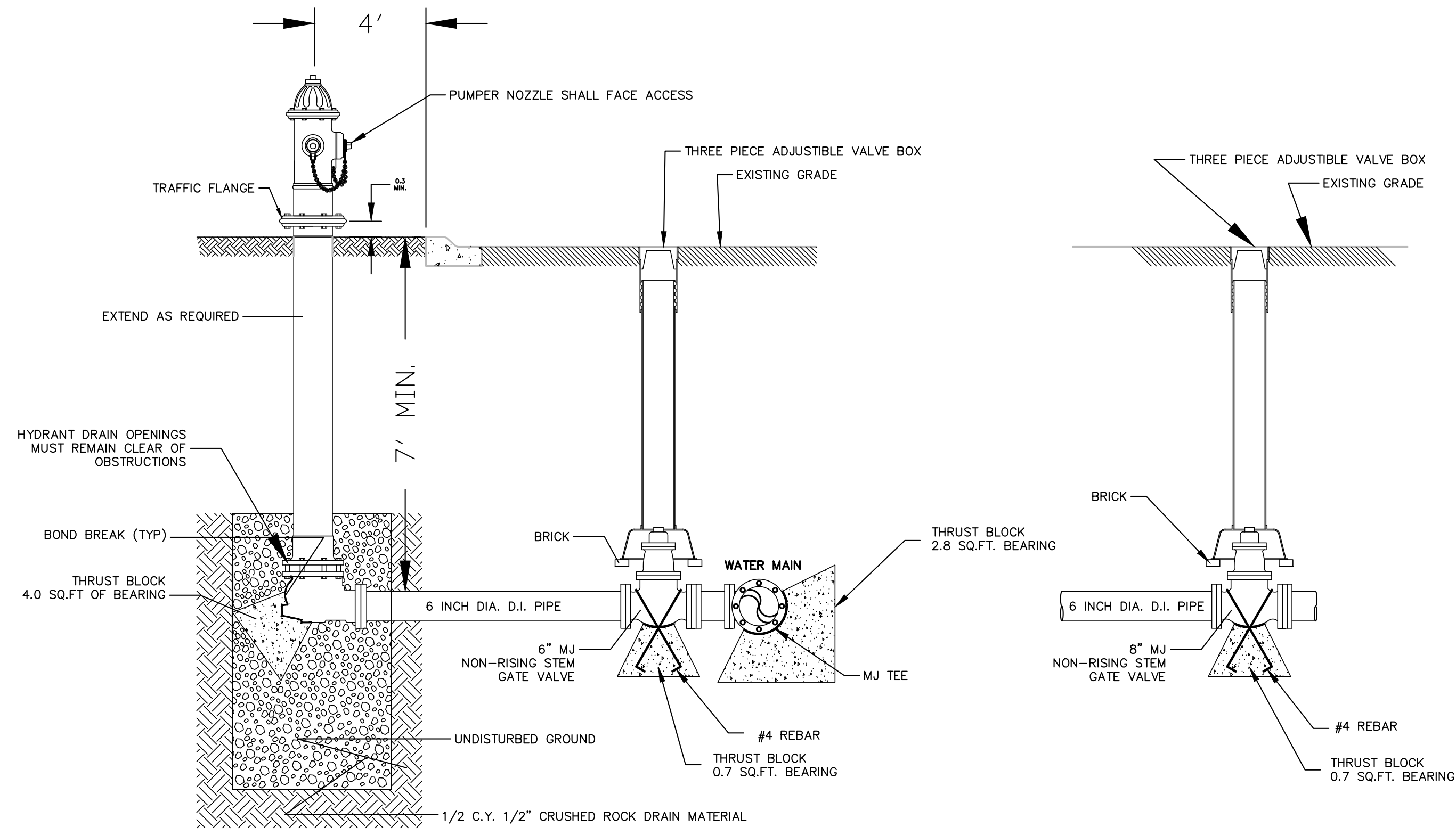
TYPICAL CROSSING- SEWER OVER WATER  
N.T.S.

NOTE:  
1. ALL SEWER LINE CROSSINGS WITH CLEARANCES LESS THAN 18" SHALL BE ENCASED AS SHOWN ABOVE.



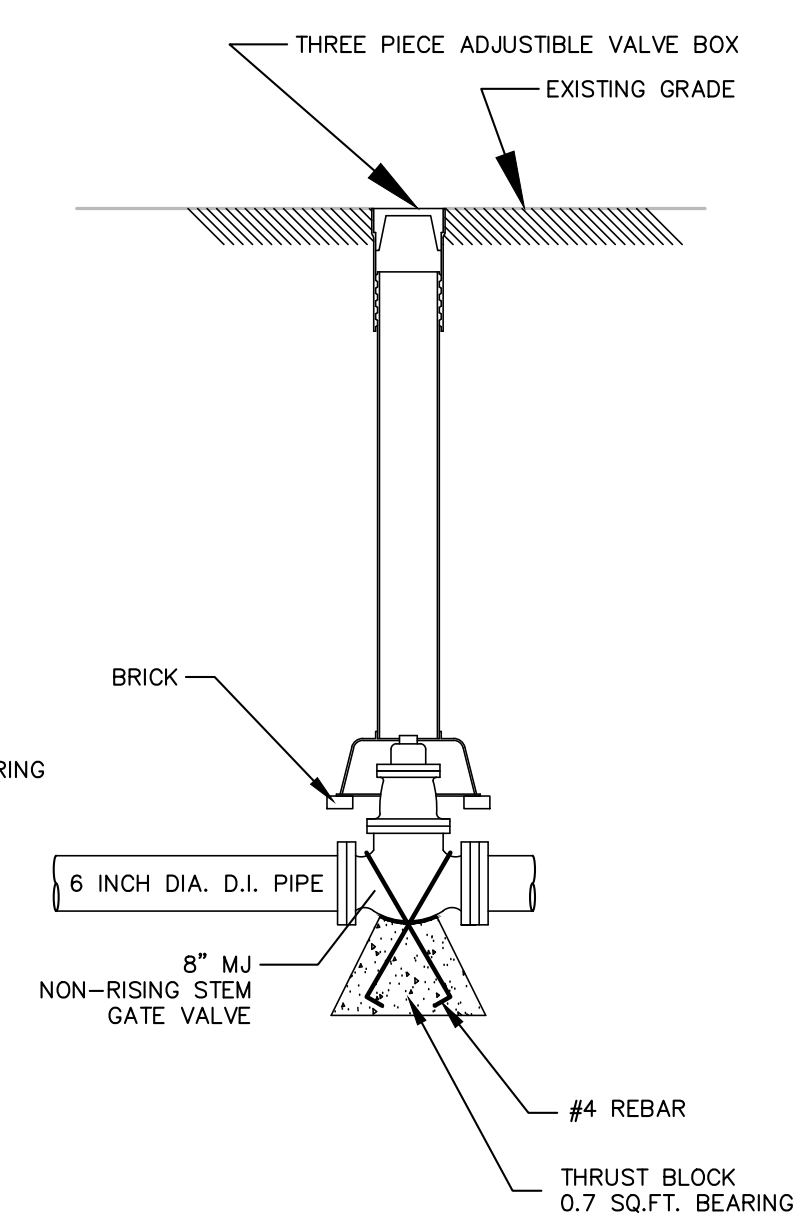
TYPICAL CROSSING- SEWER LESS THAN 18" CLEAR  
N.T.S.

NOTE:  
1. WATER AND/OR SEWER LINE TO BE CONSTRUCTED OF ONE JOINT (18' MINIMUM LENGTH) OF DR-18 PIPE, C-900 PVC, CENTERED ON WATER AND/OR SEWER LINE FOR PERPENDICULAR CROSSING. FOR SKEWED CROSSINGS, USE C-900 UNTIL SEPARATION EXCEEDS 10'.



NOTES:  
1. ALL JOINTS FROM MAIN TO HYDRANT SHALL BE HARNESSSED MECHANICAL JOINTS WITH THRUST BLOCKS.  
2. ALL HYDRANT LEAD PIPING SHALL BE 6" D.I.P.  
3. HYDRANT, VALVE, AND FITTINGS TO BE RATED AT 250 P.S.I.  
4. POLYETHYLENE WRAP SHALL COVER D.I.P. ASSEMBLY FROM MAIN TO HYDRANT BASE.

FIRE HYDRANT ASSEMBLY/ INSTALLATION DETAIL  
N.T.S.



NOTES:  
1. VALVES SHALL BE LOCATED OUTSIDE OF CONCRETE CURB & GUTTER AND VALLEY PANS. INSTALLED VALVES WHICH CONFLICT WITH SAID AREAS SHALL BE RELOCATED AT THE CONTRATOR'S EXPENSE.  
2. LINE VALVES ARE TO BE MJ x MJ.

TYPICAL GATE VALVE DETAIL  
N.T.S.

- GENERAL UTILITY NOTES:
1. ALL WATER MAINS SHALL BE INSTALLED WITH A 8.0' MINIMUM DEPTH OF COVER. IF GRADE CONFLICTS OCCUR WITH EXISTING UTILITIES OR OTHER OBSTRUCTIONS, THE PROPOSED WATER MAIN DEPTH CAN BE VARIED PROVIDED THE A 8.0' MINIMUM DEPTH OF COVER IS MAINTAINED.
  2. ALL MECHANICAL COUPLINGS REQUIRED FOR THE TIE-INS TO EXISTING WATERLINES ARE NOT SHOWN ON THE DRAWINGS. THESE SHALL BE PROVIDED AS REQUIRED BY THE CONTRACTOR AS PART OF THE "TIE-IN TO EXISTING MAIN" BID ITEM.
  3. ALL FITTINGS (BENDS, CROSSES, PLUGS, VALVES, AND TEES) TO HAVE A CONCRETE THRUST BLOCK INSTALLED IN ACCORDANCE WITH THE THRUST BLOCK TABLE SHOWN ON THE DETAIL SHEET. NOTE THRUST BLOCKS MAY NOT HAVE BEEN SHOWN ON THE PLANS. MEG-A-LUGS MAY BE SUBSTITUTED FOR CONCRETE THRUST BLOCKS UPON TOWN'S APPROVAL.
  4. THE CONTRACTOR SHALL FOLLOW ALL CDH (COLORADO DEPARTMENT OF HEALTH) REGULATIONS FOR WATER AND SEWER LINE CROSSINGS.
  5. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING DISTURBED AREAS IN ACCORDANCE WITH SPECIFICATIONS.
  6. ALL REMOVED WATER LINE APPURTENANCES TO BE SUPPLIED TO OWNER.
  7. THE PROPOSED WATER LINE LOCATION UTILIZES JOINT DEFLECTIONS. DEFLECTION SHALL NOT EXCEED MANUFACTURER'S SPECIFICATIONS.
  8. CONTRACTOR SHALL HAVE ON SITE THE FITTINGS AND MATERIAL NECESSARY TO ADJUST THE PROPOSED WATER LINE AND SERVICES.
  9. NEW PIPES INCLUDES ALL WORK FOR PIPE INSTALLATION INCLUDING EXCAVATION, PLACEMENT, BEDDING, INSULATION, BACKFILL, COMPACTION AND GRADING UP TO SUBGRADE.

BLOCK 6 SUBDIVISION TWO  
GUNNISON COUNTY, COLORADO

DETAILS

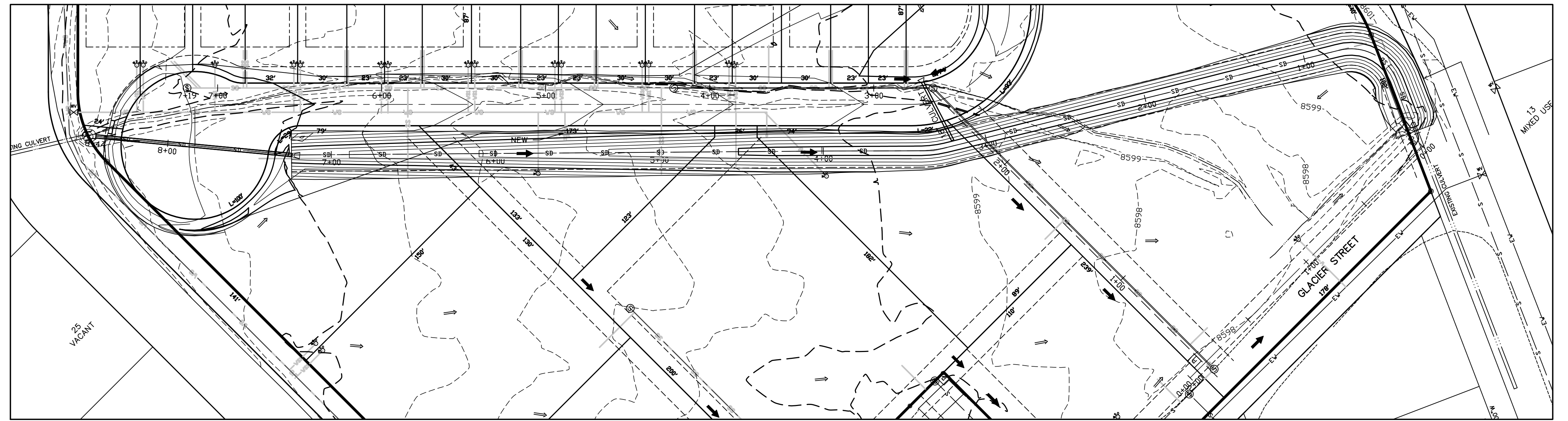
Prepared By: NCW & Associates, Inc.  
P.O. Box 3688, Crested Butte, Colorado 81224  
(970) 349-6384, Fax (970) 349-6297

PROJECT: 21248.00, DWG.: PRESITE  
DATE: 6/8/24, SHEET 6 OF 9

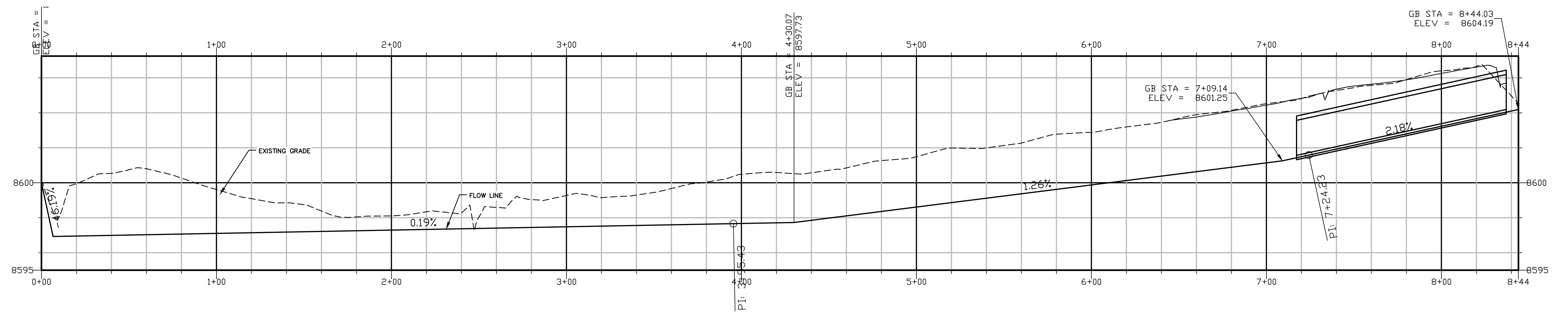


ORIGINAL SHEET SIZE = 24"x36"

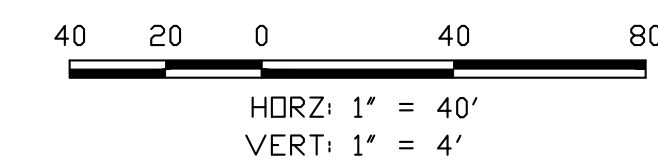
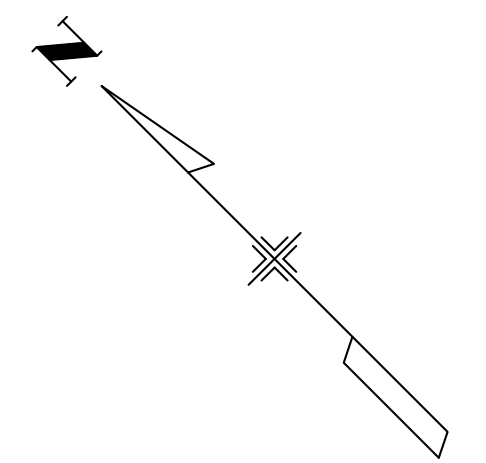




STORMDRAIN 1 ALTERNATE PLAN



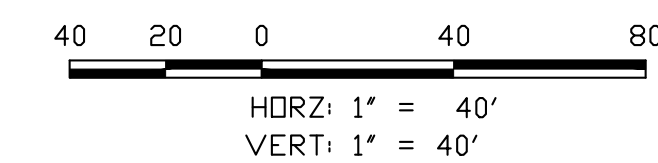
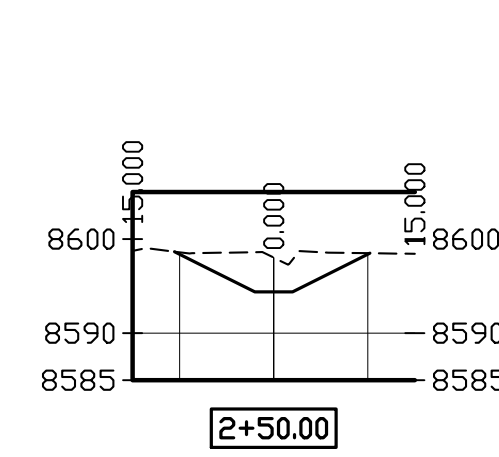
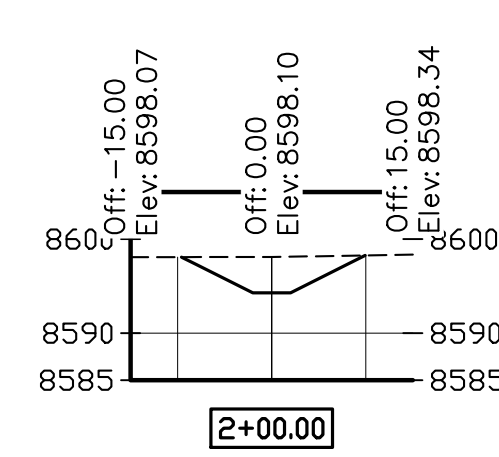
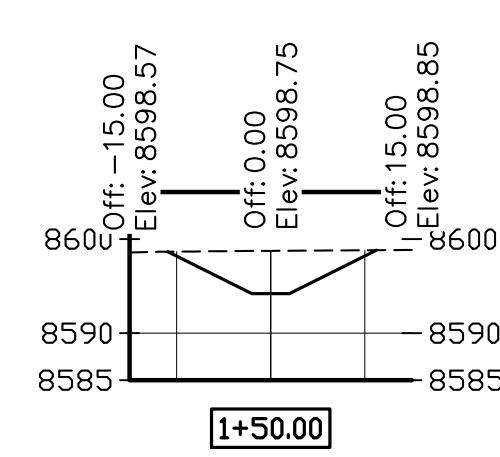
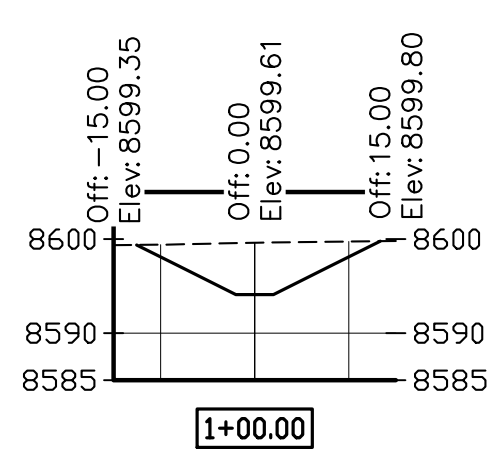
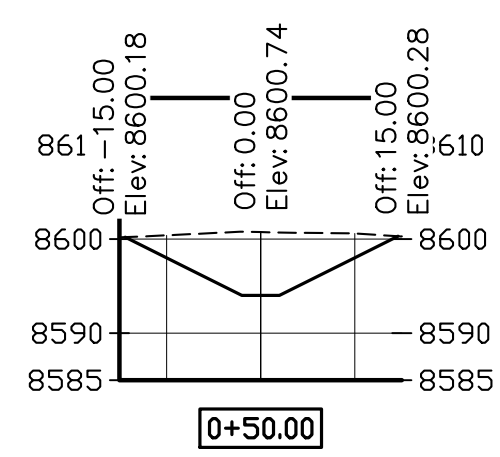
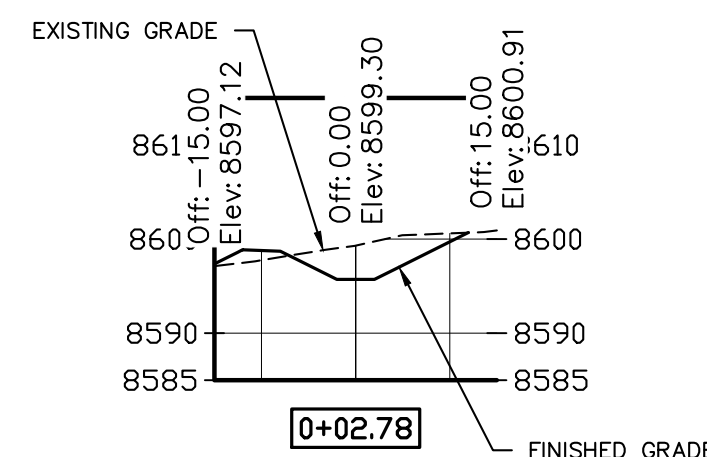
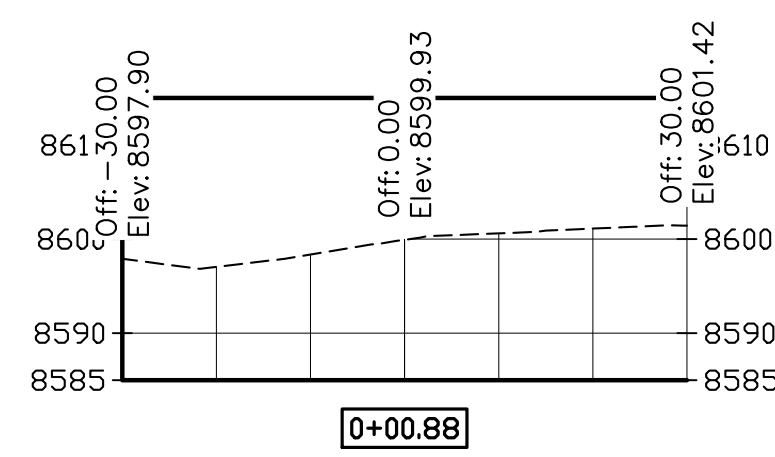
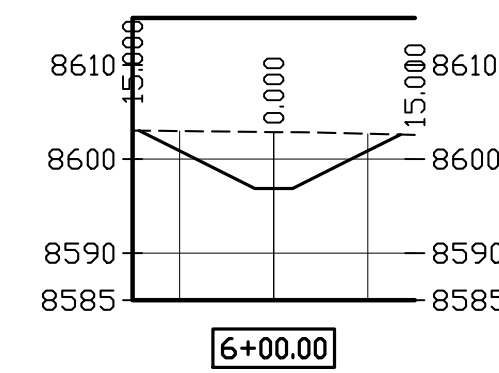
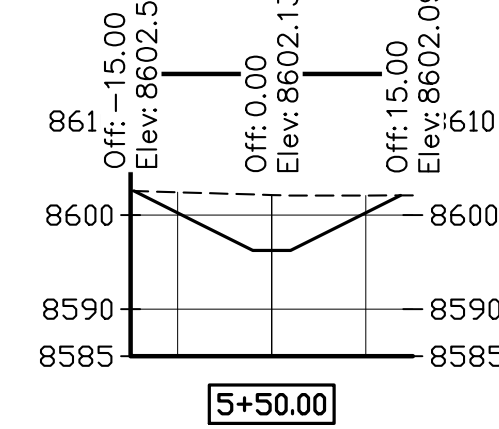
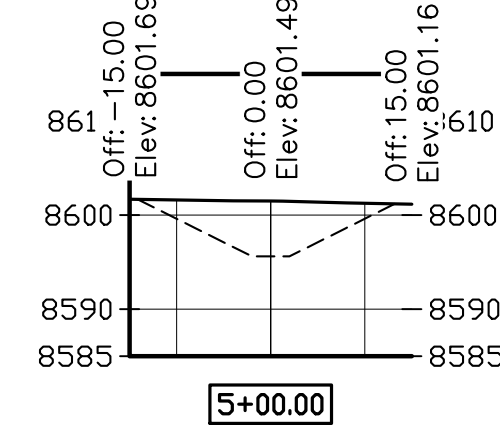
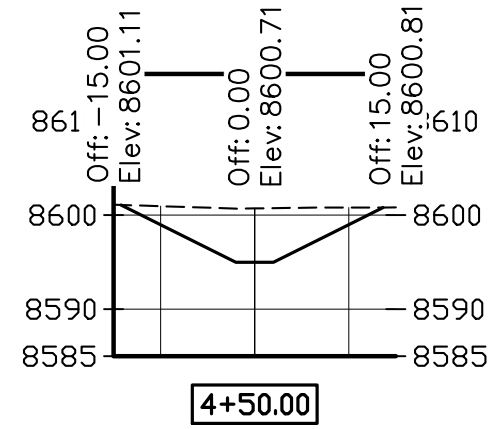
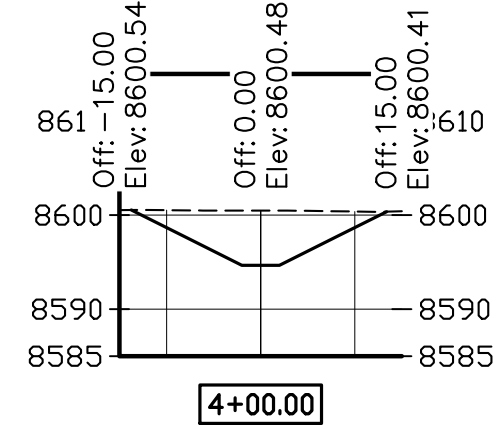
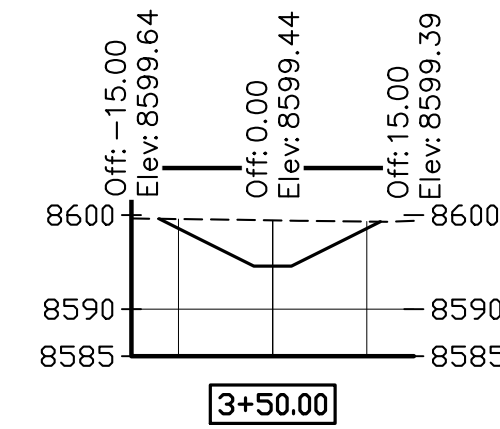
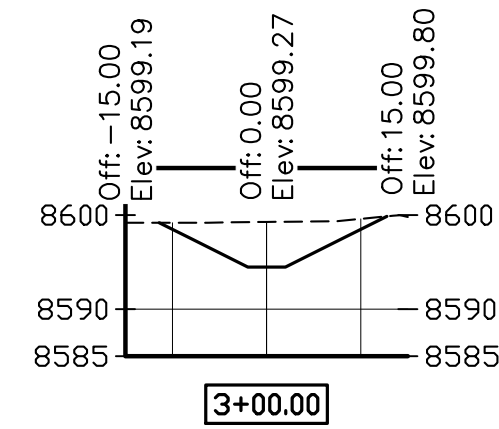
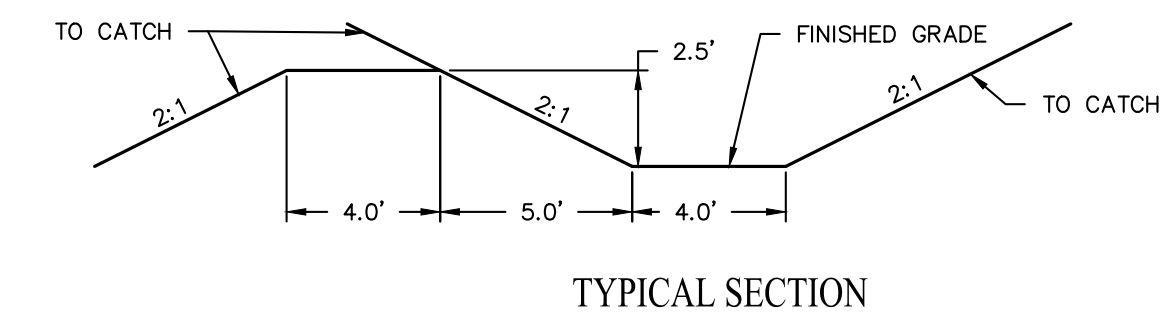
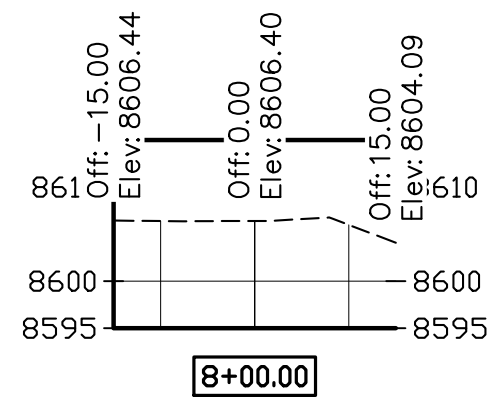
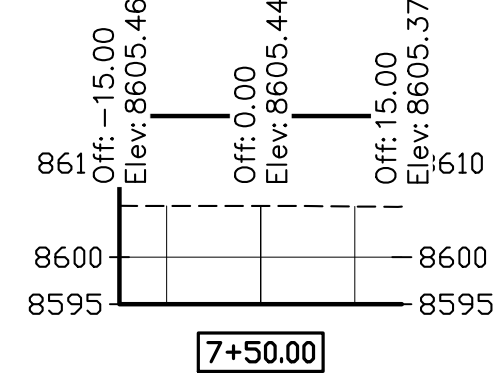
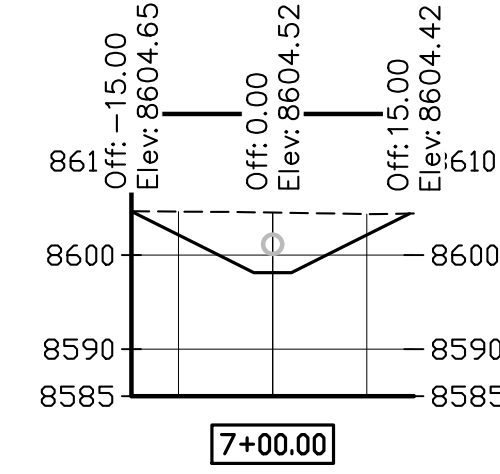
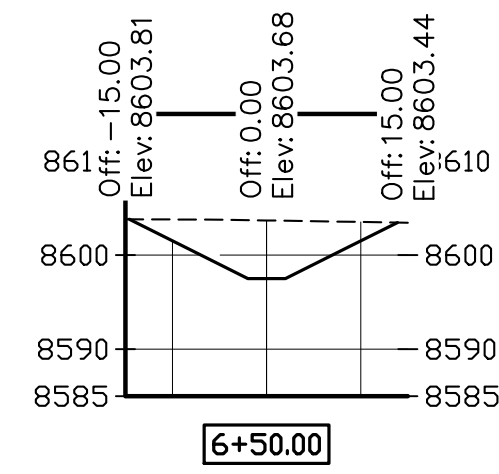
STORMDRAIN 1 ALTERNATE PROFILE



BLOCK 6 SUBDIVISION TWO GUNNISON COUNTY, COLORADO	
DITCH ALTERNATE PLAN AND PROFILE	
Prepared By: NCW & Associates, Inc. P.O. Box 3688, Crested Butte, Colorado 81224 (970) 349-6384, Fax (970) 349-6297	
PROJECT: 21248.00	DWG.: PRE SITE
DATE: 6/8/24	SHEET 8 OF 9

ORIGINAL SHEET SIZE = 24" X 36"

ORIGINAL SHEET SIZE = 24"x36"



BLOCK 6 SUBDIVISION TWO GUNNISON COUNTY, COLORADO	
DITCH ALTERNATE SECTIONS	
Prepared By: NCW & Associates, Inc.	
P.O. Box 3688 272 Goren St. (970) 349-6384	Crested Butte Colorado 81224 Fax (970) 349-6297
PROJECT: 21248.00	DWG.: PRESITE
DATE: 6/8/24	SHEET 9 OF 9