

GENERAL NOTES:

1. ALL CONSTRUCTION SHALL COMPLY WITH THE COTTONWOOD WATER AND SANITATION DISTRICT SYSTEM SPECIFICATIONS, THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA, THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA, THE URBAN DRAINAGE AND FLOOD CONTROL DISTRICT, THE COLORADO STATE BOARD OF HEALTH, THE ENVIRONMENTAL PROTECTION AGENCY AND THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION.
2. THE CONTRACTOR SHALL CONTACT ALL APPROPRIATE UTILITY COMPANIES AND THE TOWN OF PARKER PRIOR TO THE BEGINNING OF ANY CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ANY EXISTING UTILITY (INCLUDING DEPTHS) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION. ALL EXISTING UTILITIES SHALL BE PROTECTED FROM DAMAGE BY THE CONTRACTOR. DAMAGED UTILITIES SHALL BE REPAIRED BY THE CONTRACTOR AT HIS OWN EXPENSE. ALL ITEMS SHOWN ON THE PLANS AS EXISTING ARE SHOWN IN APPROXIMATE LOCATIONS ONLY. THE ACTUAL LOCATIONS MAY VARY FROM THE PLANS, ESPECIALLY IN THE CASE OF UNDERGROUND UTILITIES. WHENEVER THE CONTRACTOR DISCOVERS A DISCREPANCY IN LOCATIONS, HE SHALL CONTACT THE ENGINEER IMMEDIATELY.
3. THE DISTRICT ENGINEER AND OTHER APPROVING AGENCIES ARE TO BE NOTIFIED AT LEAST 48 HOURS PRIOR TO CONSTRUCTION.
4. THE CONTRACTOR SHALL OBTAIN, AT HIS EXPENSE, ALL PERMITS WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING STREET CUTS, UTILITY INTERFERENCE AND TRAFFIC CONTROL.
5. ALL CONCRETE SHALL BE A MINIMUM OF CLASS B, 6-SACK, TYPE II, 3000 POUND COMPRESSION STRENGTH. ALL CONCRETE ASSOCIATED WITH ROADWAY CONSTRUCTION SHALL BE CLASS D.
6. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF ROLLED "AS-BUILT" BLUELINE PRINTS TO THE DESIGNATED TOWN AUTHORITY FOR APPROVAL PRIOR TO PRINTING MYLAR SEPIAS AND ELECTRONIC FILES FOR THE TOWN. AFTER APPROVAL HAS BEEN GRANTED BY THE DESIGNATED TOWN AUTHORITY, FULL SIZE MYLAR SEPIA PRINTS SHALL BE TRANSMITTED TO THE TOWN.
7. ALL BACKFILL MATERIAL SHALL BE COMPACTED TO ALL APPLICABLE TOWN AND DISTRICT STANDARDS. COMPACTION TESTS MUST BE SUBMITTED TO THE TOWN AND DISTRICT PRIOR TO PROBATIONARY ACCEPTANCE.
8. ALL CURBS SHALL BE CAREFULLY AND FIRMLY BACKFILLED BY THE CONTRACTOR. ANY EXCESS MATERIAL FROM SUBGRADE TRIMMING SHALL NOT BE LEFT IN THE STREET CORE, BUT SHALL BE SPREAD UNIFORMLY IN A 20-FOOT WIDE ZONE BEHIND THE WALK.
9. REFER TO OVERLOT GRADING AND EROSION CONTROL PLAN FOR GRADING NOTES.
10. EXPANSION JOINTS WILL BE PLACED IN ALL SIDEWALKS AND CURB AND GUTTER AT PCs, PTs, AND AT ANY FIXED OBJECT, BUT IN NO CASE ANY FARTHER THAN 500 FEET APART.
11. THE APPLICANT IS 470 COMPARK LLC.
12. THE UTILITY CONTRACTOR THAT INSTALLS SANITARY SEWER, STORM SEWER, AND WATER SHALL, AFTER PROPERLY COMPLETING THE WORK, WALK THE SITE WITH THE OWNER'S REPRESENTATIVE(S) TO INSPECT MANHOLES, HYDRANTS, VALVE BOXES, AND INLETS PRIOR TO THE START OF WORK BY THE CURB, GUTTER, AND WALK CONTRACTOR. A SIMILAR FIELD INSPECTION SHALL OCCUR WITH THE UTILITY CONTRACTOR AND CURB CONTRACTOR TO INSPECT THESE ITEMS PLUS CURB STOP BOXES AND CONCRETE WORK PRIOR TO THE START OF WORK BY THE PAVING CONTRACTOR. THESE FIELD INSPECTIONS ARE INTENDED TO HELP ESTABLISH RESPONSIBILITY FOR ANY NECESSARY REPAIRS, CLEANING, ETC. THAT ARE NEEDED. THESE INSPECTIONS WITH A REPRESENTATIVE OF THE OWNER ARE IN ADDITION TO ANY INSPECTIONS BY REPRESENTATIVES OF THE TOWN OF PARKER OR COTTONWOOD WATER AND SANITATION DISTRICT.
13. ALL TESTING AND INSPECTION FOR COMPLIANCE WITH TOWN OF PARKER STANDARDS SHALL BE COMPLETED PRIOR TO PROBATIONARY ACCEPTANCE.
14. THE DESIGN ENGINEER SHALL SUBMIT ONE (1) SET OF ROLLED "AS-BUILT" BLUELINE PRINTS AND ELECTRONIC FILES TO THE DISTRICT ENGINEER FOR APPROVAL PRIOR TO PRINTING MYLAR SEPIAS FOR THE DISTRICT. AFTER APPROVAL HAS BEEN GRANTED BY THE DISTRICT ENGINEER, FULL SIZE MYLAR SEPIA PRINTS SHALL BE TRANSMITTED TO THE COTTONWOOD WATER AND SANITATION DISTRICT OFFICE AND AN ADDITIONAL SET OF ROLLED BLUELINE PRINTS SHALL BE TRANSMITTED TO THE DISTRICT ENGINEER'S OFFICE PRIOR TO PROBATIONARY ACCEPTANCE.
15. TRENCHES SHALL BE EXCAVATED AND THE PIPE EXPOSED FOR THE INSPECTION AT ANY LOCATION ON THE PROJECT IF SO ORDERED BY THE INSPECTOR.
16. CONTRACTOR WILL BE HELD RESPONSIBLE FOR THE PROPER FUNCTIONING OF LINES (WATER AND SEWER) FOR UP TO TWO (2) YEARS FROM THE DATE OF PROBATIONARY ACCEPTANCE OF THE LINES BY THE DISTRICT. ANY MALFUNCTION DURING THIS PERIOD OF GUARANTEE SHALL BE REMEDIED BY THE CONTRACTOR TO THE SATISFACTION OF THE DISTRICT ENGINEER AT NO EXPENSE TO THE DISTRICT.
17. SURFACE GRADES ARE TO BE WITHIN PLUS OR MINUS ONE FOOT OF FINISHED GRADE AND VERIFICATION OF COMPACTION RESULTS OBTAINED PRIOR TO THE INSTALLATION OF WATER AND SEWER LINES. RESULTS MUST BE SUBMITTED TO THE DISTRICT ENGINEER.
18. NO WORK SHALL BE BACKFILLED UNTIL THE CONSTRUCTION HAS BEEN INSPECTED AND APPROVED FOR BACKFILLING BY THE DISTRICT ENGINEER OR REPRESENTATIVE OF THE DISTRICT ENGINEER.
19. ALL SERVICES WILL BE PERMANENTLY MARKED ON CURB FACE AS FOLLOWS:
"X" FOR SANITARY SERVICE SEWERS
"V" FOR WATER SERVICES
20. NO TREES SHALL BE ALLOWED IN EASEMENTS OR WITHIN 8' OF ANY WATER OR SANITARY SEWER MAINS IN RIGHT-OF-WAY. NO TREES ALLOWED WITHIN 7' OF THE EDGE OF ANY STORM SEWER.
21. BENCHMARKS:
SOURCE BENCHMARKS:
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD.
ELEVATION = 5752.84 (NAVD 88)
SITE BENCHMARKS:
1. A NO. 5 REBAR WITH 2" ALUMINUM CAP STAMPED "LS 28286, 2001" FOUND AT THE SOUTHWEST CORNER OF SECTION 6, T6S, R66W LOCATED ON THE WEST LINE OF FIRST STREET APPROXIMATELY 1000 FEET NORTH OF ELM AVENUE.
ELEVATION = 5845.51
2. A 2.5" IRON PIPE WITH 3.25" ALUMINUM CAP STAMPED "PLS 12405, 1997" FOUND AT THE SOUTHEAST CORNER OF SECTION 6, T6S, R66W LOCATED APPROXIMATELY 960 FEET NORTH OF THE CENTERLINE OF AVENTERRA PARKWAY AND APPROXIMATELY 1050 FEET WEST OF THE CENTERLINE OF CHAMBERS ROAD.
ELEVATION = 5808.06
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION, PROTECTION AND REPAIR OF ALL UTILITIES ENCOUNTERED DURING CONSTRUCTION, WHETHER SHOWN ON THESE PLANS OR NOT. CONTRACTOR SHALL CONTACT REPRESENTATIVES OF THE RESPECTIVE UTILITIES AND HAVE ALL UTILITIES FIELD LOCATED PRIOR TO CONSTRUCTION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL LOCATIONS OF EXISTING STRUCTURES AND UTILITIES SHOWN ON THE DRAWINGS, TO ASCERTAIN WHETHER ANY STRUCTURES AND UTILITIES MAY EXIST, AND REPAIR AND/OR REPLACE ANY STRUCTURES AND/OR UTILITIES THAT ARE DAMAGED BY THE CONTRACTOR.
23. T.C. INDICATES TOP BACK OF WALK GRADE FOR COMBINATION CURB, GUTTER, AND SIDEWALK, OR TOP BACK OF CURB FOR OTHER CURB AND GUTTER TYPES.
24. ALL DIMENSIONS AND RADII ARE TO FLOWLINE UNLESS OTHERWISE NOTED.
25. THE CONTRACTOR SHALL FURNISH THE ENGINEER WITH A SET OF "AS-BUILT" PLANS MARKED WITH ALL DEVIATIONS FROM THE CONSTRUCTION PLANS PRIOR TO INITIAL ACCEPTANCE.
26. ALL STATIONING IS ON CENTERLINE OF RIGHT OF WAY UNLESS OTHERWISE NOTED.

CONSTRUCTION NOTES:

1. ALL MATERIALS AND CONSTRUCTION SHALL BE IN CONFORMANCE WITH THE LATEST EDITION OF THE COLORADO DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE LATEST EDITION OF THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL, AND THE TOWN OF PARKER STORM DRAINAGE AND ENVIRONMENTAL CRITERIA MANUAL.
2. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT. THE TOWN RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS STANDARDS AND SPECIFICATIONS.
3. A PRE-CONSTRUCTION MEETING SHALL BE SCHEDULED A MINIMUM OF 48 HOURS AND A MAXIMUM OF 96 HOURS PRIOR TO THE START OF CONSTRUCTION. A PRE-CONSTRUCTION MEETING WILL NOT BE SCHEDULED UNTIL THE GRADING PERMIT AND ALL OTHER NECESSARY PERMITS HAVE BEEN OBTAINED.
4. A DEVELOPMENT REVIEW ENGINEER SHALL BE CONTACTED A MINIMUM OF 24 HOURS PRIOR TO A NECESSARY INSPECTION. IF A DEVELOPMENT REVIEW ENGINEER IS NOT AVAILABLE AFTER PROPER NOTICE OF CONSTRUCTION ACTIVITY HAS BEEN PROVIDED, THE PERMITEE MAY COMMENCE WORK IN THE DEVELOPMENT REVIEW ENGINEER'S ABSENCE. HOWEVER, TOWN OF PARKER RESERVES THE RIGHT TO REJECT THE IMPROVEMENT IF SUBSEQUENT TESTING REVEALS AN IMPROPER INSTALLATION.
5. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ACTUAL CONSTRUCTION. FOR INFORMATION, CONTACT DENVER INTER-UTILITY GROUP AT 303-534-6700, OR 1-800-922-1987. THE CONTRACTOR SHALL FIELD VERIFY SIZE AND HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING FACILITIES PRIOR TO CONSTRUCTION, AND NOTIFY THE ENGINEER OF ANY DISCREPANCIES.
6. THE CONTRACTOR SHALL HAVE ONE (1) SIGNED COPY OF THE PLANS, APPROVED BY THE TOWN OF PARKER PUBLIC WORKS DIRECTOR, AND ONE (1) COPY OF THE ROADWAY DESIGN AND CONSTRUCTION CRITERIA AT THE JOB SITE AT ALL TIMES.
7. ALL PROPOSED STREET CUTS TO EXISTING PAVEMENTS FOR UTILITIES, STORM SEWER, OR FOR OTHER PURPOSES ARE LISTED AND REFERENCED BELOW:
WATER TIE-IN ----
SANITARY SEWER CONNECTION ----
STORM SEWER CONNECTION ----
8. A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE TOWN OF PARKER FOR ACCEPTANCE WITH THE RIGHT-OF-WAY PERMIT USE APPLICATION. A PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR USE DURING CONSTRUCTION.
9. ALL TRENCHES SHALL BE ADEQUATELY SUPPORTED AND THE SAFETY OF WORKERS PROVIDED FOR AS REQUIRED BY THE MOST RECENT OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA) "SAFETY AND HEALTH REGULATIONS FOR CONSTRUCTION."
10. COMPACTION OF ALL TRENCHES MUST BE ATTAINED AND COMPACTION TEST RESULTS SUBMITTED TO THE DEVELOPMENT REVIEW ENGINEER IN PRELIMINARY FORM PRIOR TO PAVING AND IN FINAL FORM PRIOR TO PROBATIONARY ACCEPTANCE.
11. THE CONTRACTOR IS RESPONSIBLE FOR IMPLEMENTING AND MAINTAINING EROSION AND SEDIMENT CONTROL MEASURES AT ALL TIMES DURING CONSTRUCTION. THE PLAN MAY BE MODIFIED AS FIELD CONDITIONS WARRANT WITH APPROVAL FROM THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT.
12. THE CONTRACTOR SHALL PROVIDE, ERECT, AND MAINTAIN PROPER TRAFFIC CONTROL DEVICES UNTIL THE SITE IS OPEN TO TRAFFIC. THE CONTRACTOR SHALL SUBMIT A TRAFFIC CONTROL PLAN TO THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.
13. PLANS ARE APPROVED FOR A PERIOD OF ONE (1) YEAR FROM THE DATE SHOWN ON THE TOWN OF PARKER SIGNATURE BLOCK. PLANS SHALL BE RESUBMITTED TO THE TOWN FOR APPROVAL AFTER ONE (1) YEAR. THE COST OF THE PLAN RE-REVIEW AND RE-ACCEPTANCE WILL BE CHARGED BACK TO THE DEVELOPER INCLUDING ALL TIME AND EXPENSES OF THE TOWN OF PARKER PUBLIC WORKS DEPARTMENT.
14. REPAIR OF ANY DAMAGE TO EXISTING IMPROVEMENTS OR LANDSCAPING IS THE RESPONSIBILITY OF THE CONTRACTOR.
15. ALL DAMAGED EXISTING CURB, GUTTER, AND SIDEWALK SHALL BE REPAIRED PRIOR TO ACCEPTANCE OF COMPLETED IMPROVEMENTS.
16. ALL CONSTRUCTION ACTIVITIES MUST COMPLY WITH THE STATE OF COLORADO PERMITTING PROCESS FOR "STORMWATER DISCHARGES ASSOCIATED WITH CONSTRUCTION ACTIVITY." FOR INFORMATION, PLEASE CONTACT COLORADO DEPARTMENT OF HEALTH, WATER QUALITY CONTROL DIVISION, WQCD-PE-82, 4300 CHERRY DRIVE SOUTH, DENVER, COLORADO 80222-1530. ATTENTION: PERMITS AND ENFORCEMENT SECTION. PHONE: 303-692-3500.
17. IF DEWATERING IS REQUIRED, A STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT IS REQUIRED FOR DISCHARGES TO A STORM SEWER, CHANNEL, IRRIGATION DITCH, ANY STREET THAT IS TRIBUTARY TO THE AFOREMENTIONED FACILITIES, OR ANY WATER OF THE UNITED STATES.
18. ALL REFERENCES TO BOOKS, PAGES, MAPS, AND RECEPTION NUMBER ARE PUBLIC DOCUMENTS ON FILE WITH THE COUNTY CLERK AND RECORDER'S OFFICE.

PARKER STANDARD STORM DRAINAGE INFRASTRUCTURE NOTES

1. ALL STORM DRAINAGE IMPROVEMENTS ARE SUBJECT TO COMPLIANCE WITH THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) CURRENT EDITION OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, M & S STANDARDS, AND ALL STANDARD SPECIAL PROVISIONS CURRENTLY USED BY CDOT, WITH THE MODIFICATIONS SET FORTH IN THE TOWN OF PARKER'S STORM DRAINAGE AND ENVIRONMENT CRITERIA MANUAL (SDECM), AS AMENDED.
2. THE CONTRACTOR SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8 CRS), THE "PROTECTION OF FISHING STREAMS" TITLE 33, ARTICLE 5, CRS), THE "CLEAN WATER ACT" (33 USC 1344), "CHERRY CREEK RESERVOIR CONTROL REGULATION NO. 72" (5 CCR 1002-72), THE REGULATION PROMULGATED, CERTIFICATION OR PERMITS ISSUES, AND THE REQUIREMENTS PRESENTED IN THE SDECM REVISION TO SECTION 107 AND THE CONSTRUCTION BMP PLAN. IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND WATER QUALITY CONTROL LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, OR STATE AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
3. INSPECTIONS: CONSTRUCTION SHALL NOT BEGIN UNTIL A GRADING PERMIT HAS BEEN ISSUED FOR THE PROJECT. THE CONTRACTOR SHALL NOTIFY THE TOWN OF PARKER ENGINEERING DEPARTMENT (PUBLIC WORKS) TO SCHEDULE INSPECTIONS A MINIMUM OF 48 HOURS PRIOR TO THE CONSTRUCTION OF ALL DRAINAGE INFRASTRUCTURE (STORM SEWERS, INLETS, MANHOLES, ENERGY DISSIPATORS, RIPRAP, GROUDED BOULDERS, DETENTION POND OUTLET STRUCTURES, FOREBAYS, TRICKLE CHANNELS, ETC.). FAILURE TO NOTIFY THE ENGINEERING DEPARTMENT FOR INSPECTIONS MAY RESULT IN NON-ACCEPTANCE OF THE INFRASTRUCTURE BY THE TOWN. URBAN DRAINAGE AND FLOOD CONTROL DISTRICT MUST ALSO BE NOTIFIED IN A SIMILAR MANNER FOR ALL MAINTENANCE ELIGIBLE DRAINAGE INFRASTRUCTURES (CONSULT WITH STORMWATER ENGINEERING DIVISION).

4. STRUCTURAL BACKFILL (CDOT CLASS 1) SHALL BE COMPACTED TO CDOT STANDARD SPECIFICATIONS 203.03. STRUCTURAL BACKFILL (CDOT CLASS 2) SHALL CONFORM TO CDOT STANDARD SPECIFICATION 203.07. AT THE CONTRACTOR'S OPTION, STRUCTURAL BACKFILL (SQUEEGEE) MEETING THE GRADATION REQUIREMENTS CONTAINED IN REVISION OF SECTION 206 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM, MAY BE SUBSTITUTED FOR STRUCTURE BACKFILL (CLASS 1 OR CLASS 2) FOR BACKFILLING OF CULVERT PIPES, STORM SEWER PIPES, MANHOLES AND INLET STRUCTURES; HOWEVER, THE TOP 2 FEET BELOW SUB-GRADE ELEVATION SHALL BE THE REQUIRED EMBANKMENT MATERIAL.
5. ALL EXCAVATIONS SHALL MEET OSHA REQUIREMENTS.
6. TESTING: PROBATIONARY ACCEPTANCE OF STORM DRAINAGE IMPROVEMENTS WILL BE CONTINGENT UPON SATISFACTORY TESTING RESULTS. IN ALL CASES WHERE TESTS INDICATE COMPACTION LESS THAN THAT REQUIRED BY TOWN SPECIFICATIONS, ADDITIONAL COMPACTION AND TESTS WILL BE REQUIRED UNTIL THE SPECIFICATIONS ARE MET. FREQUENCY OF TESTING WILL BE AS FOLLOWS:
A) 1 TEST FOR SUB-GRADE AND 1 TEST FOR BACKFILL AT EVERY ABOVE-GROUND APPURTENANCE (MANHOLES, INLETS, ETC.)
B) 1 TEST EVERY 200 LF OF MAINLINE TRENCHES EVERY 1-FOOT OF BACKFILL LIFT AND WITHIN 1 FOOT FROM ALL STRUCTURES.
7. ALLOWABLE STORM SEWER CONDUIT MATERIAL WITHIN THE TOWN OF PARKER SHALL BE LIMITED TO REINFORCED CONCRETE PIPE (RCP) CONFORMING TO CDOT STANDARD SPECIFICATION 706.02.
8. ALL RCP JOINTS SHALL BE MANUFACTURED IN ACCORDANCE WITH ASTM C443. RUBBER GASKETS SHALL BE USED ON ALL PIPE JOINTS CONFORMING TO ASTM C443. ALL RCP SECTIONS SHALL BE JOINED IN SUCH A MANNER THAT THE ENDS ARE FULLY ENTERED AND THE INNER SURFACES ARE REASONABLY FLUSH. AVERAGE JOINT GAP THAT EXCEEDS 3/8 INCH SHALL BE FILLED WITH AN APPROVED FLEXIBLE PLASTIC SEALANT.
9. JOINT RESTRAINTS AND TOE-WALLS CONFORMING TO CDOT M&S STANDARD PLAN NO. M-601-11 SHALL BE USED ON ALL RCP FLARED END SECTION OUTFALLS.
10. EPOXY COATED REBAR SHALL BE USED AS REINFORCING STEEL ON ALL STORM INLETS. REFERENCE CDOT M&S STANDARD NO. M-604-10, 11, 12, AND 13.
11. CDOT CLASS D CONCRETE SHALL BE USED FOR ALL CONCRETE DRAINAGE STRUCTURES.
12. PRE-CAST INLETS AND MANHOLE BASES SHALL NOT BE USED WITHIN THE TOWN OF PARKER RIGHT-OF-WAY, WITH THE EXCEPTION OF CDOT TYPE C AND D INLETS.
13. TWO (2) MANHOLE ACCESS JOINTS ARE REQUIRED ON ALL TYPE "R" CURB INLETS GREATER THAN OR EQUAL TO TEN (10) FEET IN LENGTH AS PRESENTED IN CDOT M&S STANDARD PLAN NO. M-604-12.
14. ALL GROUTING (BOULDERS, RIPRAP) SHALL BE IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM.
15. ALL BOULDERS AND RIPRAP SHALL BE SELECTED AND PLACED IN ACCORDANCE WITH THE REVISION OF SECTION 506 OF THE CDOT STANDARD SPECIFICATIONS AS PRESENTED IN THE SDECM.

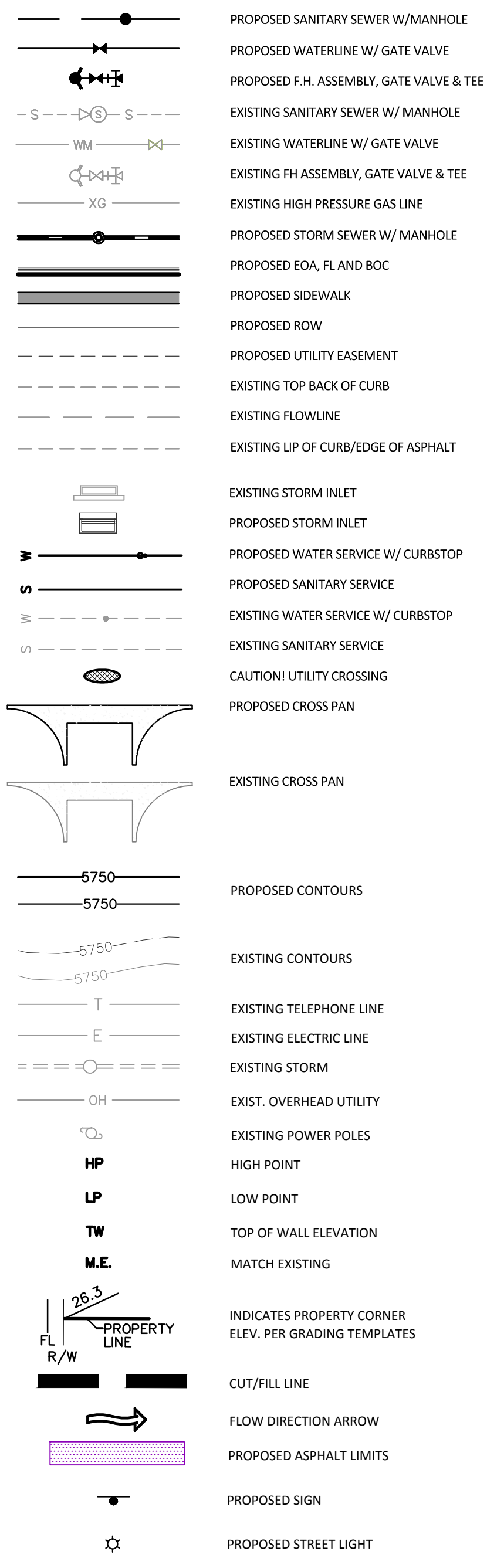
SIGNAGE & STRIPING NOTES

1. SEE SIGNAGE & STRIPING PLAN FOR NOTES.

ROADWAY NOTES:

1. PAVING SHALL NOT COMMENCE UNTIL A SOILS REPORT AND PAVEMENT DESIGN IS APPROVED BY THE ENGINEERING DIVISION AND SUB-GRADE COMPACTION TESTS ARE SUBMITTED TO AND APPROVED BY THE DEVELOPMENT REVIEW ENGINEER.
2. STANDARD TOWN OF PARKER HANDICAP RAMPS ARE TO BE CONSTRUCTED AT ALL CURB RETURNS AND AT ALL "T" INTERSECTIONS.
3. ALL STATIONING IS BASED ON CENTERLINE OF ROADWAYS UNLESS OTHERWISE NOTED.
4. ALL ELEVATIONS ARE ON USGS DATUM WITH DATE. RANGE POINT OR MONUMENT SHALL BE SHOWN ON THE CONSTRUCTION PLANS.
5. EXCEPT WHERE OTHERWISE PROVIDED FOR IN THESE PLANS AND SPECIFICATIONS, THE COLORADO DEPARTMENT OF HIGHWAYS STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE COLORADO DEPARTMENT OF HIGHWAYS M-STANDARDS, AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL, LATEST EDITION, SHALL APPLY.

MASTER LEGEND



TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWNS STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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| TOWN OF PARKER, PUBLIC WORKS DIRECTOR | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

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| DATE | 11/20/2015 | 1ST SUBMITTAL |
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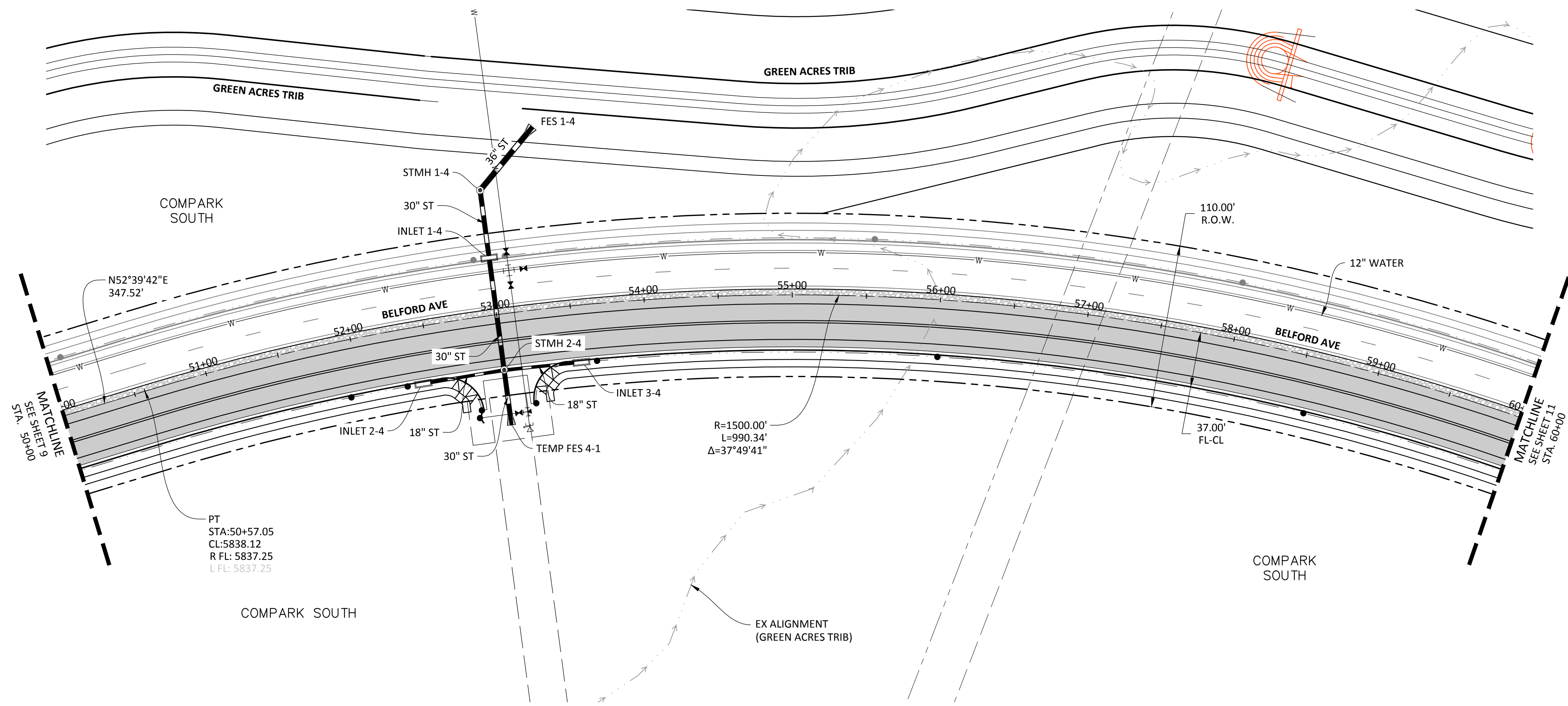
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COMPARK VILLAGE SOUTH - BELFORD AVENUE
TOWN OF PARKER, COLORADO
GENERAL NOTES

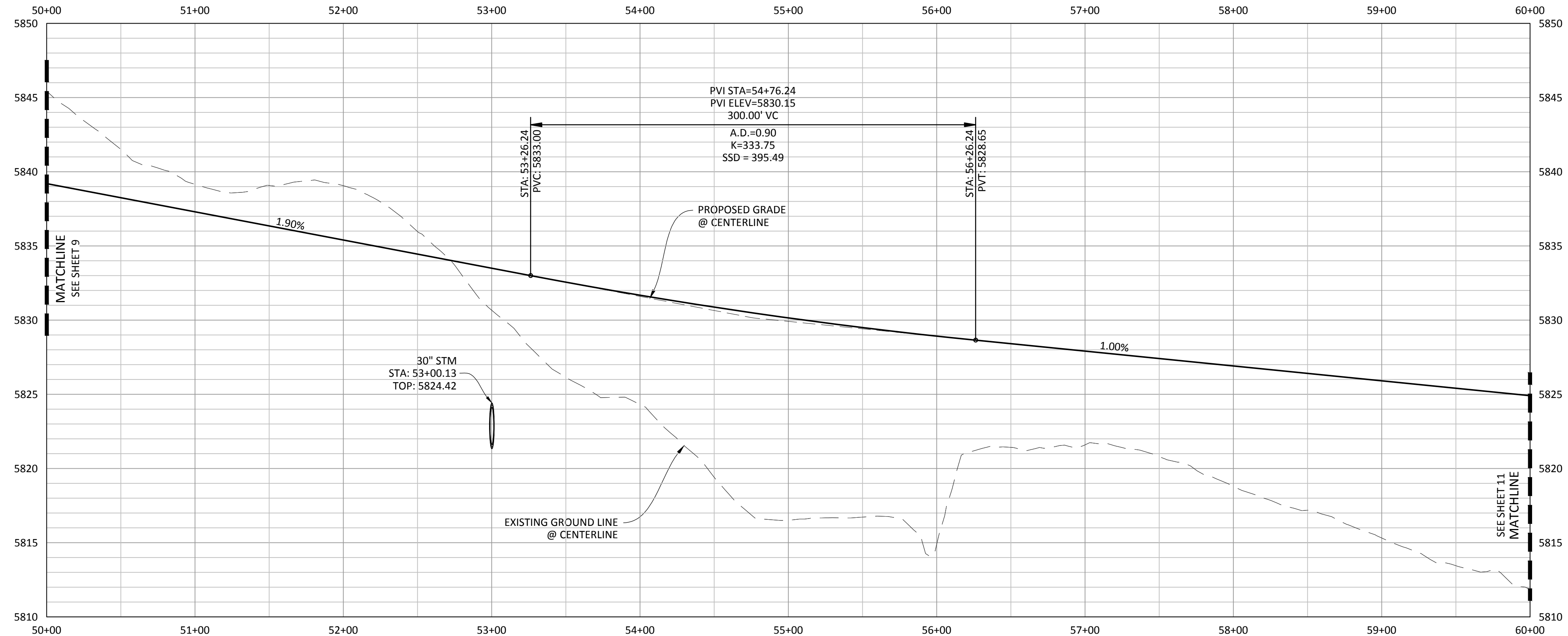
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| PROJ. MGR.: RLB |
| PROJ. ASSOC.: BRB |
| DRAWN BY: ETG |
| DATE: 12/2015 |
| SHEET |
| 2 OF 32 |
| CLCPKC3 |

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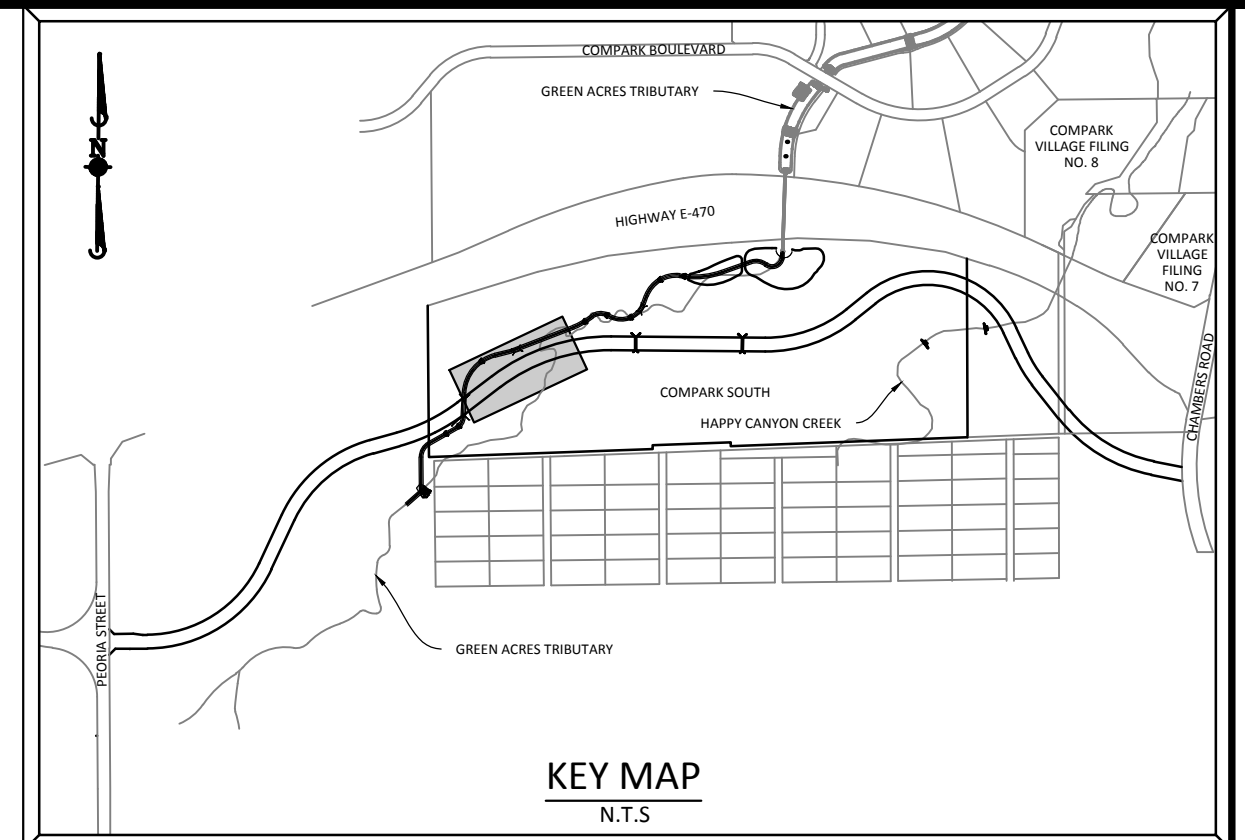
PENDING APPROVAL



PLAN: BELFORD AVENUE

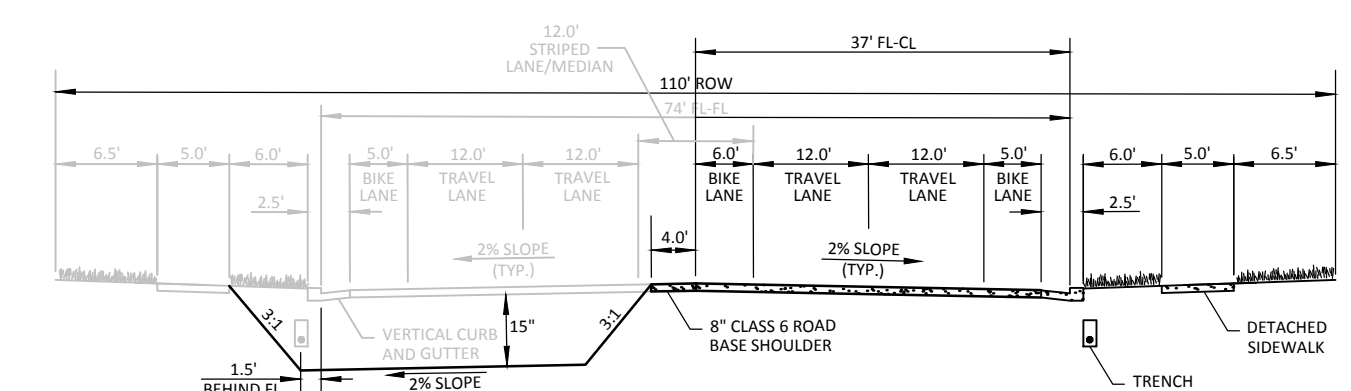


PROFILE: BELFORD AVENUE



SOURCE BENCHMARKS:
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- NOTES:**
- REFER TO GENERAL NOTES ON SHEET 2 FOR ALL APPLICABLE CONSTRUCTION STANDARDS
 - ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. REFER TO FINAL PLAN FOR RIGHT-OF-WAY AND CENTERLINE DIMENSIONS AND HORIZONTAL CONTROL.
 - ALL ELEVATIONS ARE FL UNLESS OTHERWISE NOTED. TC INDICATES BACK OF WALK FOR COMBINATION CURB, GUTTER, AND WALK, OR TOP OF CURB FOR CURB AND GUTTER.
 - REFER TO STONEGATE VILLAGE METRO DISTRICT APPROVED WATER AND SANITARY SEWER CONSTRUCTION PLANS FOR ALL PROPOSED WATER AND SANITARY SEWER LOCATIONS.
 - TFI INDICATES TOP FRONT OF INLET ELEVATION. TFI ELEVATIONS SHOWN ON INLETS IN PLAN VIEW ARE AT FRONT CORNERS OF INLET. REFER TO SPECIFIC INLET DETAILS ON STORM SEWER PLAN AND PROFILE.
 - REFER TO SHEET 28-29 FOR STREET AND CURB DETAILS. REFER TO SHEET 30-32 FOR STORM SEWER DETAILS.



PARKER MAJOR COLLECTOR
 PROPOSED CONDITION
 *FUTURE IMPROVEMENTS ARE SHADED FOR REFERENCE

Know what's below.
 Call before you dig.

SCALE: 1"=50'
 VERTICAL SCALE: 1"=5'

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| TOWN OF PARKER, PUBLIC WORKS DIRECTOR | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

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| DATE | 11/2015 | 1ST SUBMITTAL | EG |
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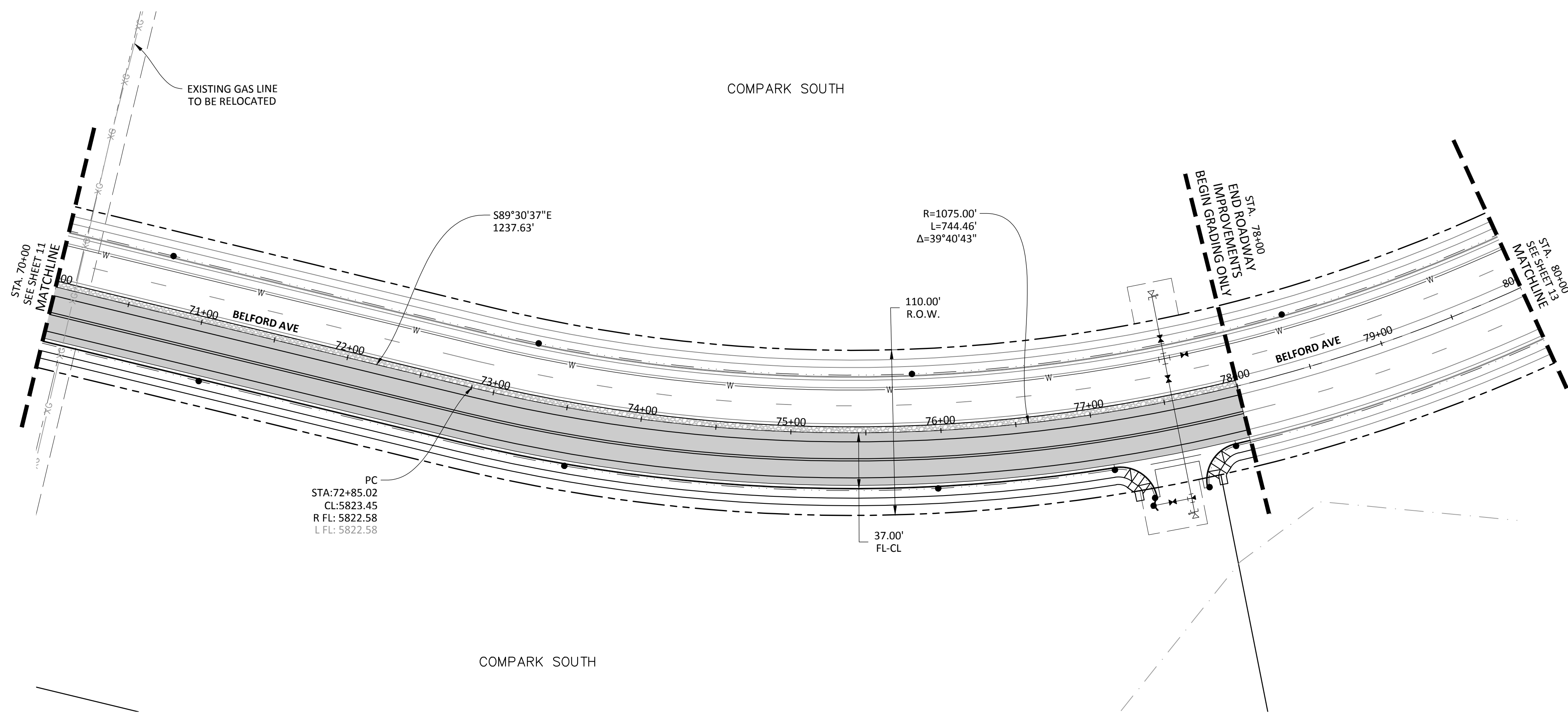
COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 BELFORD AVENUE - P&P

PROJ MGR: RLB
 PROJ ASSOC: BRR
 DRAWN BY: ETG
 DATE: 12/2015

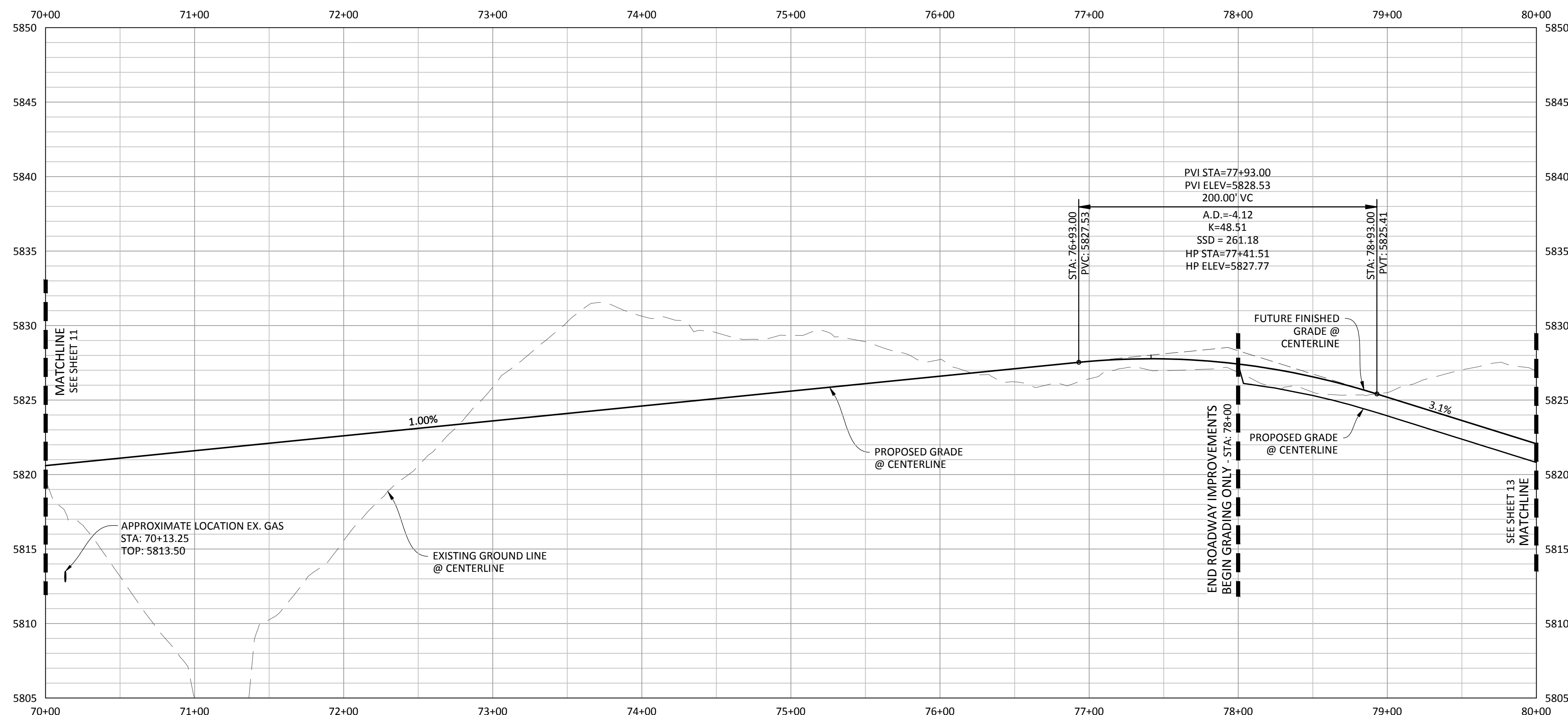
SHEET
10 OF 32
 CLCPKC3

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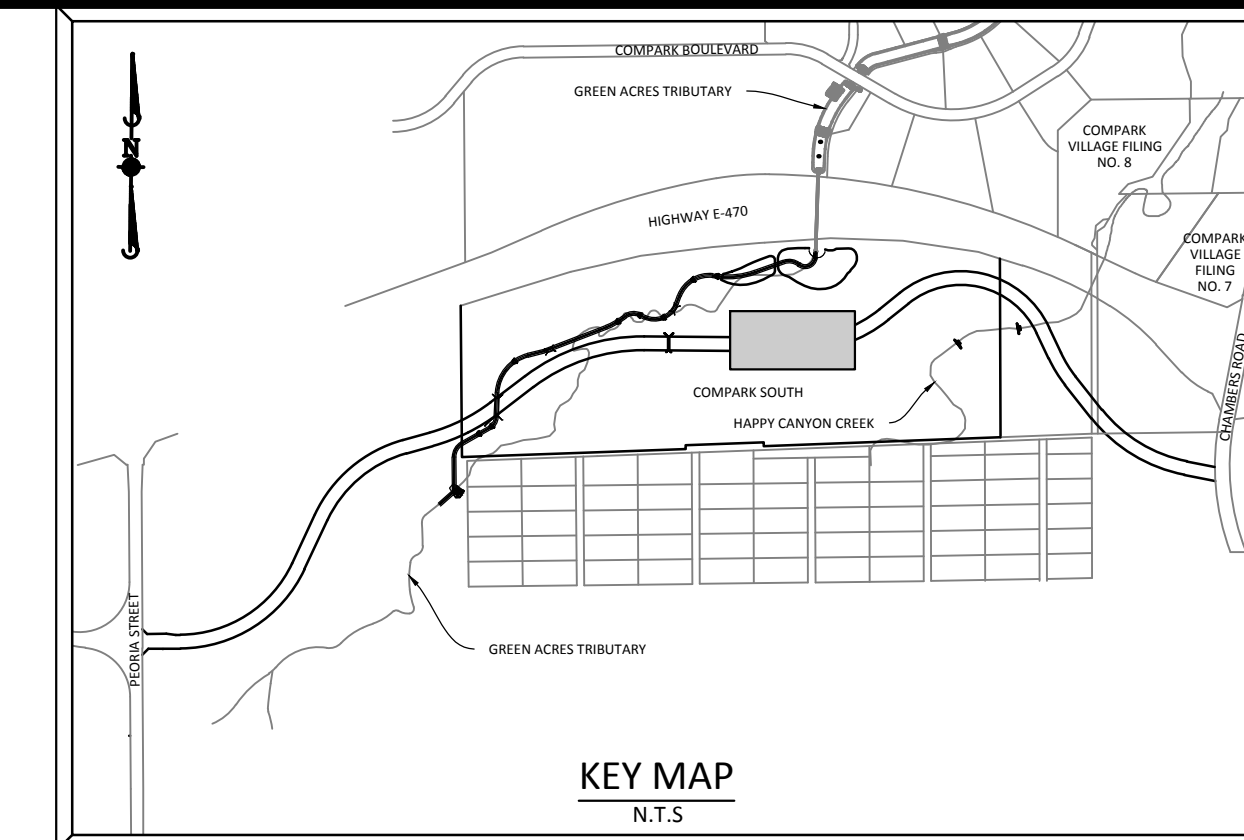
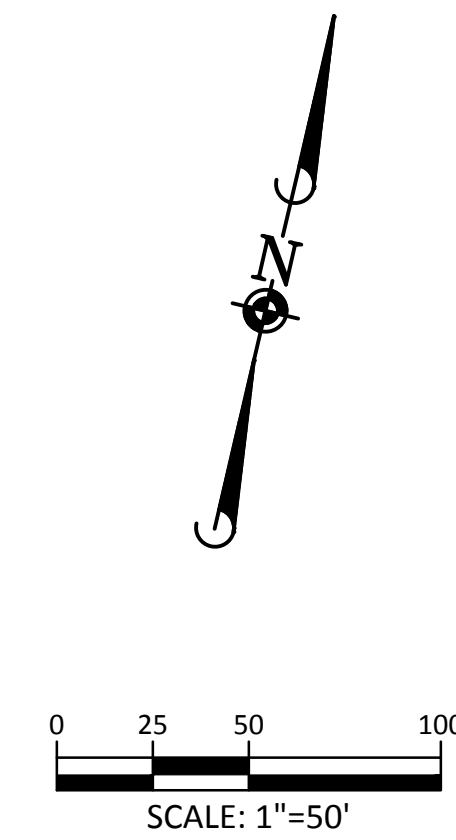
PENDING APPROVAL



PLAN: BELFORD AVENUE

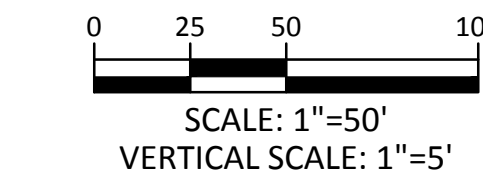
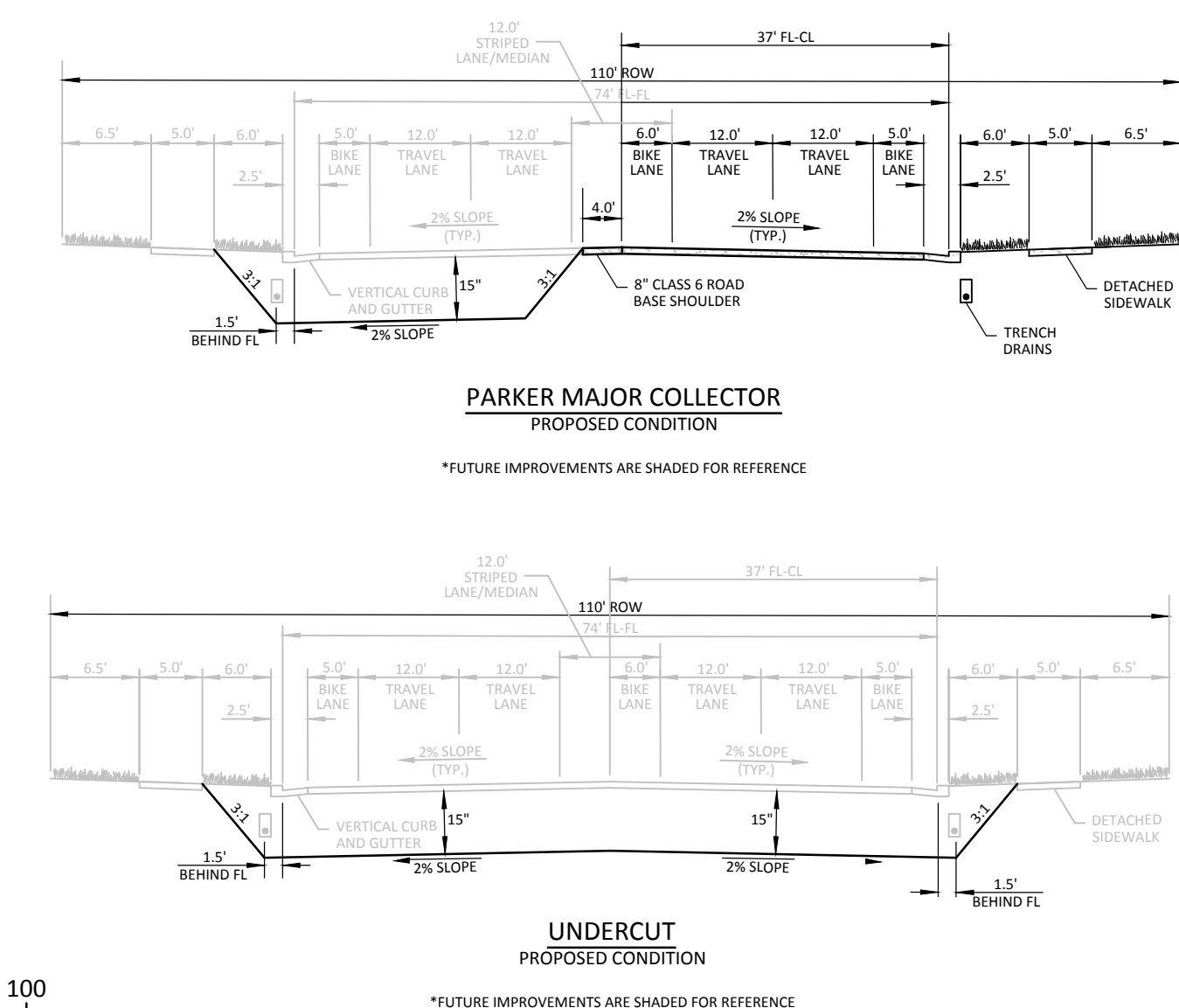


PROFILE: BELFORD AVENUE



SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)

- NOTES:**
- REFER TO GENERAL NOTES ON SHEET 2 FOR ALL APPLICABLE CONSTRUCTION STANDARDS
 - ALL STATIONING IS CENTERLINE UNLESS OTHERWISE NOTED. REFER TO FINAL PLAN FOR RIGHT-OF-WAY AND CENTERLINE DIMENSIONS AND HORIZONTAL CONTROL.
 - ALL ELEVATIONS ARE FL UNLESS OTHERWISE NOTED. TC INDICATES BACK OF WALK FOR COMBINATION CURB, GUTTER, AND WALK, OR TOP OF CURB FOR CURB AND GUTTER.
 - REFER TO STONEGATE VILLAGE METRO DISTRICT APPROVED WATER AND SANITARY SEWER CONSTRUCTION PLANS FOR ALL PROPOSED WATER AND SANITARY SEWER LOCATIONS.
 - TFI INDICATES TOP FRONT OF INLET ELEVATION. TFI ELEVATIONS SHOWN ON INLETS IN PLAN VIEW ARE AT FRONT CORNERS OF INLET. REFER TO SPECIFIC INLET DETAILS ON STORM SEWER PLAN AND PROFILE.
 - REFER TO SHEET 28-29 FOR STREET AND CURB DETAILS. REFER TO SHEET 30-32 FOR STORM SEWER DETAILS.



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| TOWN OF PARKER, PUBLIC WORKS DIRECTOR | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |



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| DATE | 11/2015 | 1ST SUBMITTAL | EG |
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COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 BELFORD AVENUE - P&P

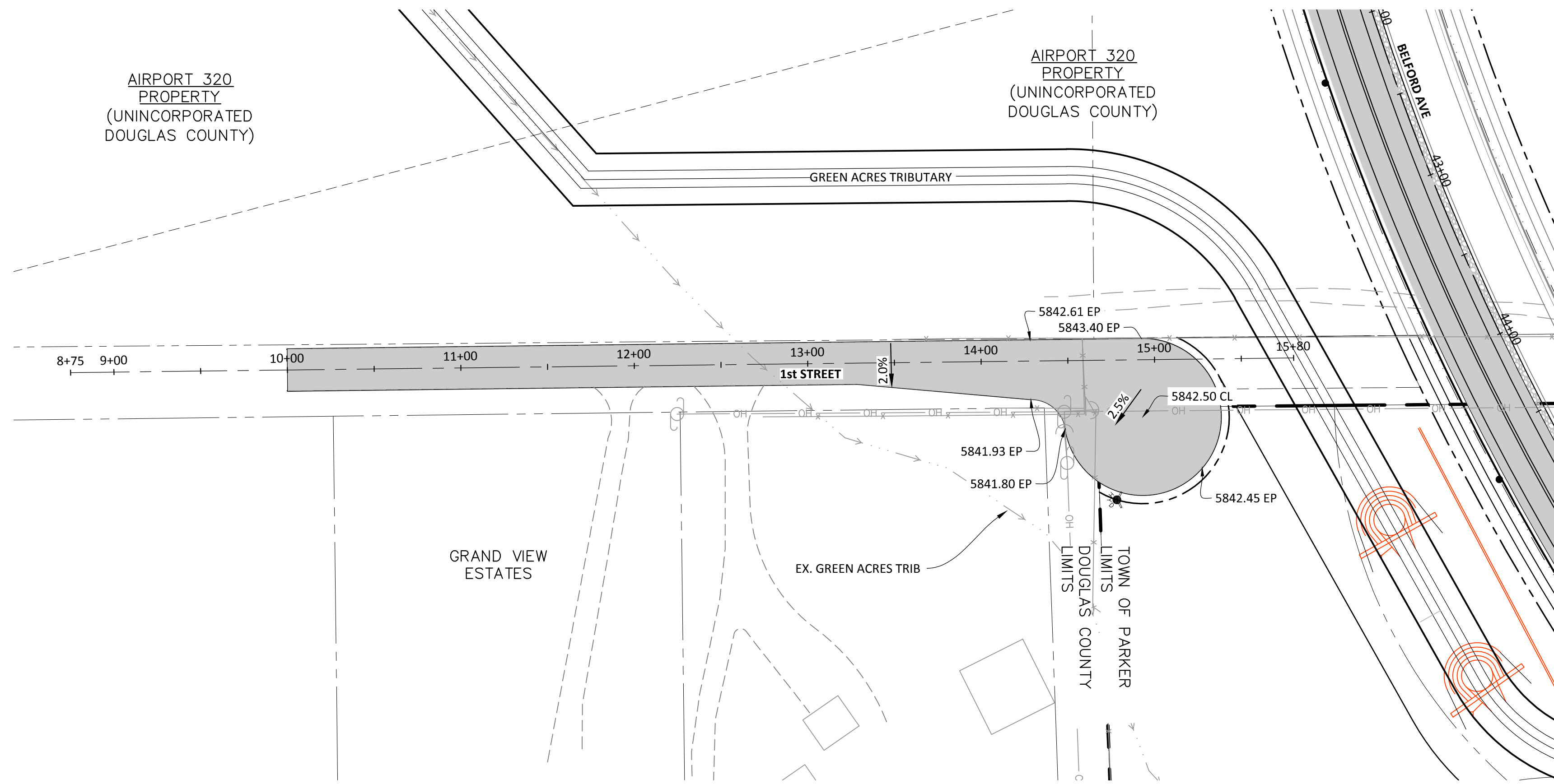
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 PROJ. ASSOC.: BRR
 DRAWN BY: ETG
 DATE: 12/2015

SHEET
12 OF 32
 CLCPKC3

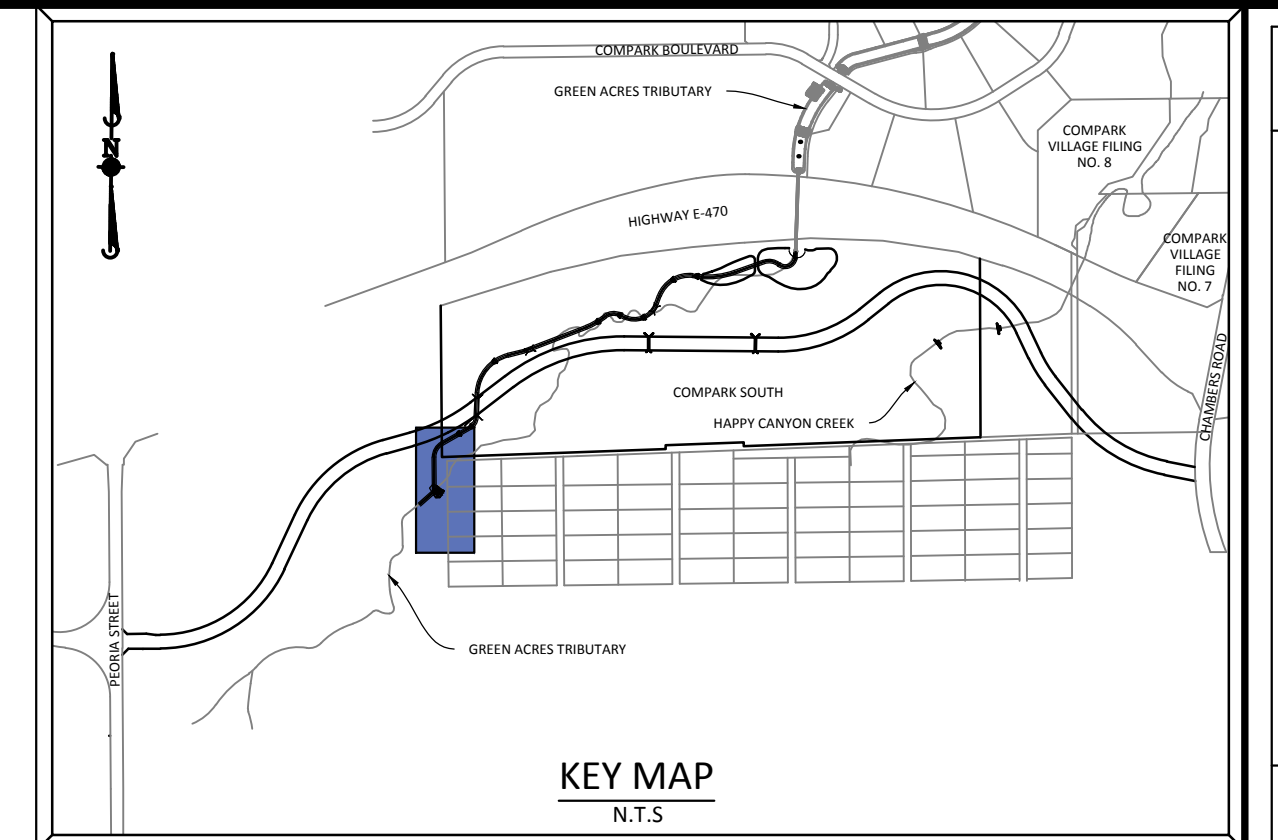
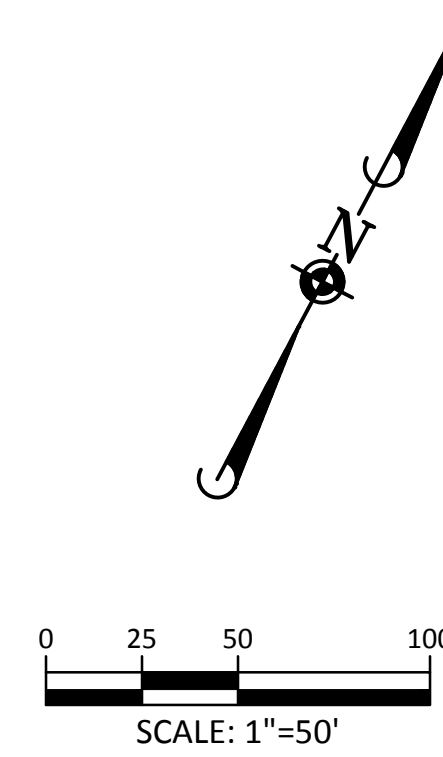
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AIRPORT 320
PROPERTY
(UNINCORPORATED
DOUGLAS COUNTY)

AIRPORT 320
PROPERTY
(UNINCORPORATED
DOUGLAS COUNTY)



PLAN: FIRST STREET

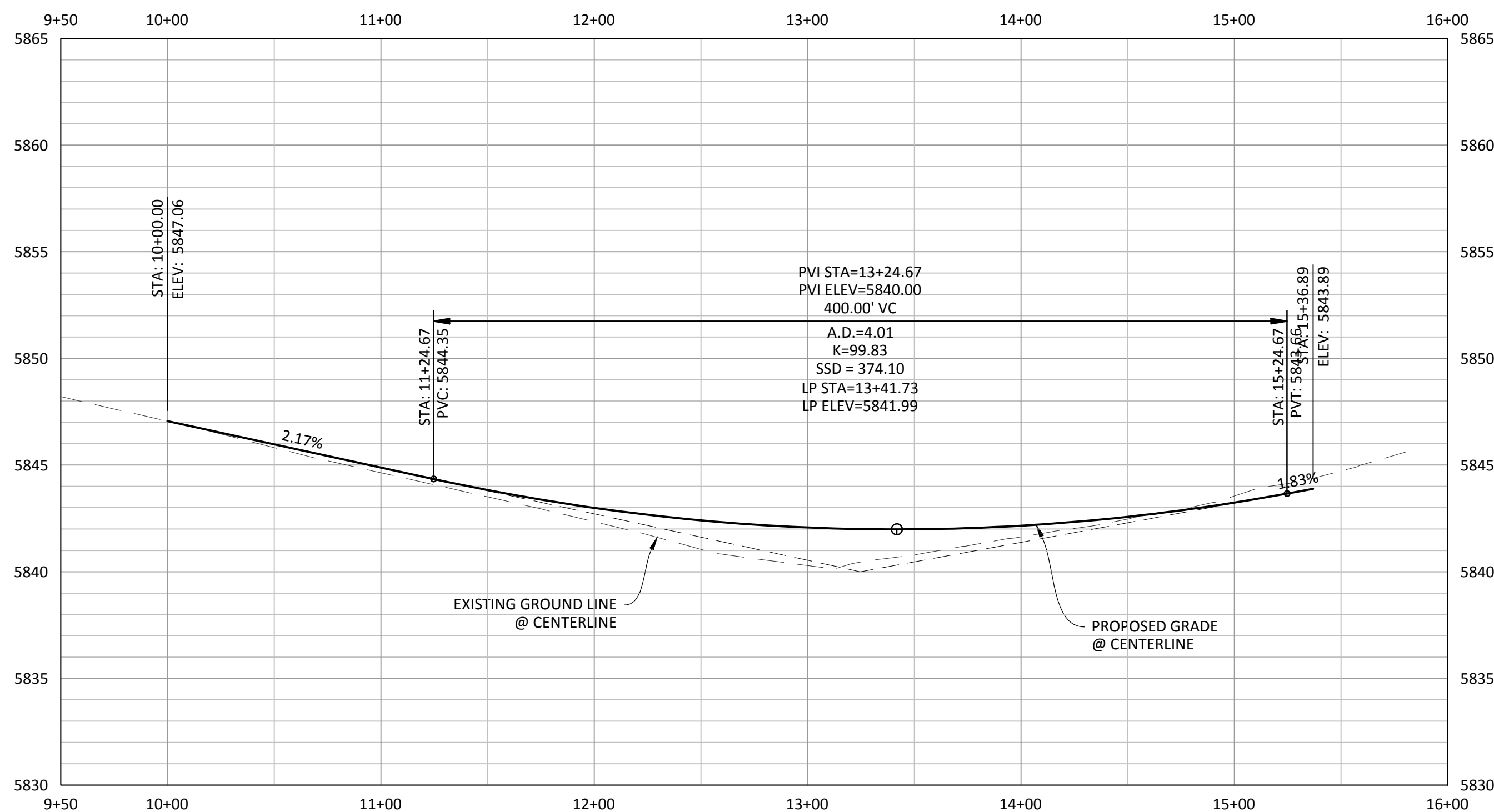


SOURCE BENCHMARKS:

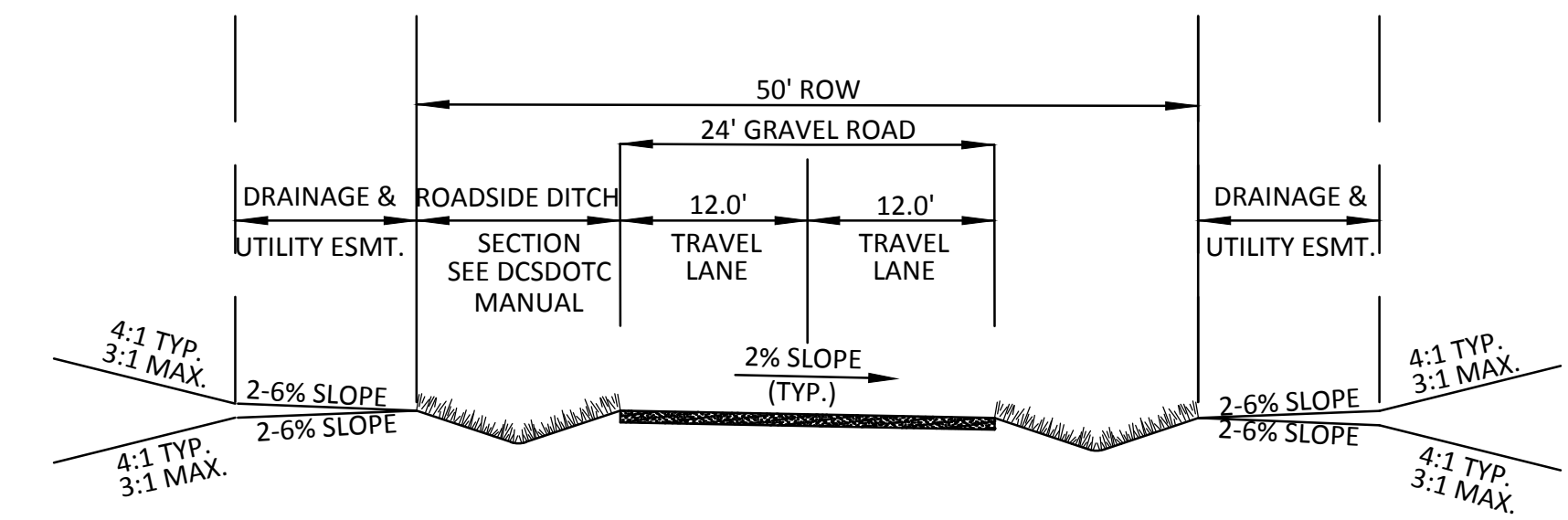
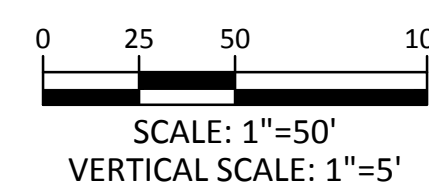
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET
SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF
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NOTES:

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- 4) REFER TO STONEGATE VILLAGE METRO DISTRICT APPROVED WATER AND SANITARY SEWER CONSTRUCTION PLANS FOR ALL PROPOSED WATER AND SANITARY SEWER LOCATIONS.



PROFILE: FIRST STREET



RURAL LOCAL (TYPE IV)
PROPOSED CONDITION



Know what's below.
Call before you dig.

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| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

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| DATE | 11/2015 | 1ST SUBMITTAL |
| REVISIONS | | |
| DRAWN BY | | EG |

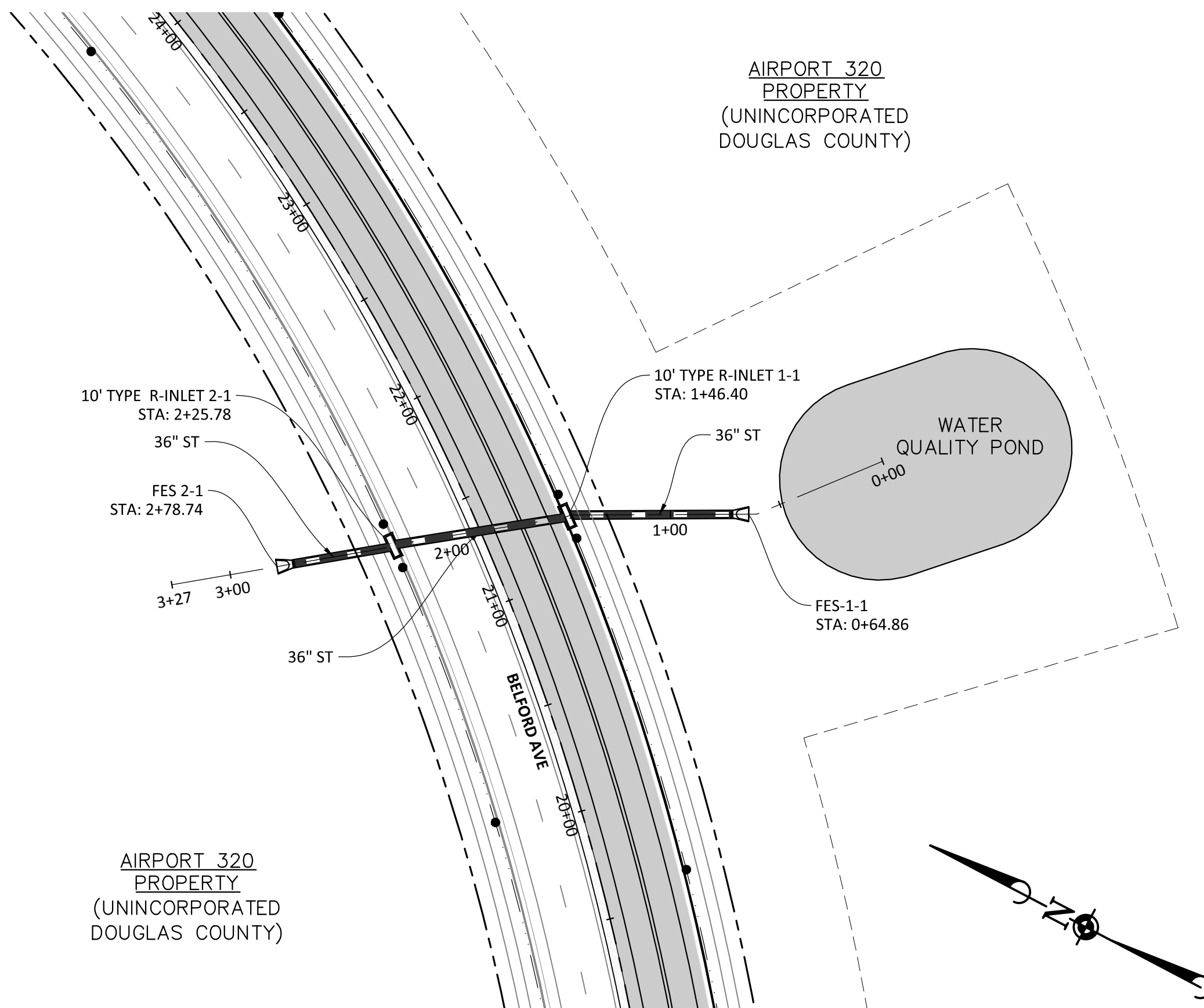
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COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 1ST STREET - P&P

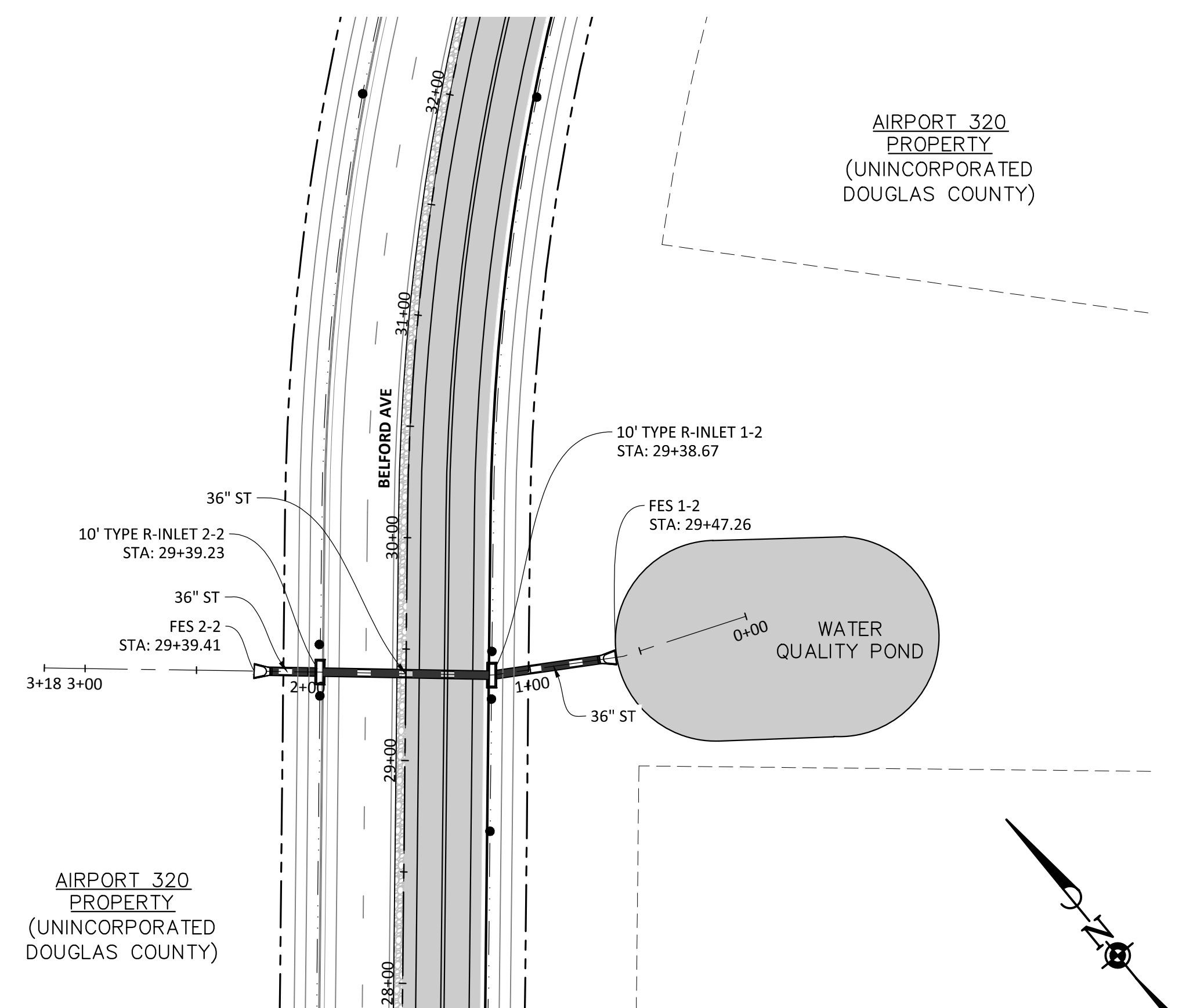
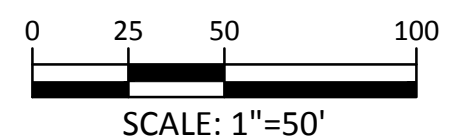
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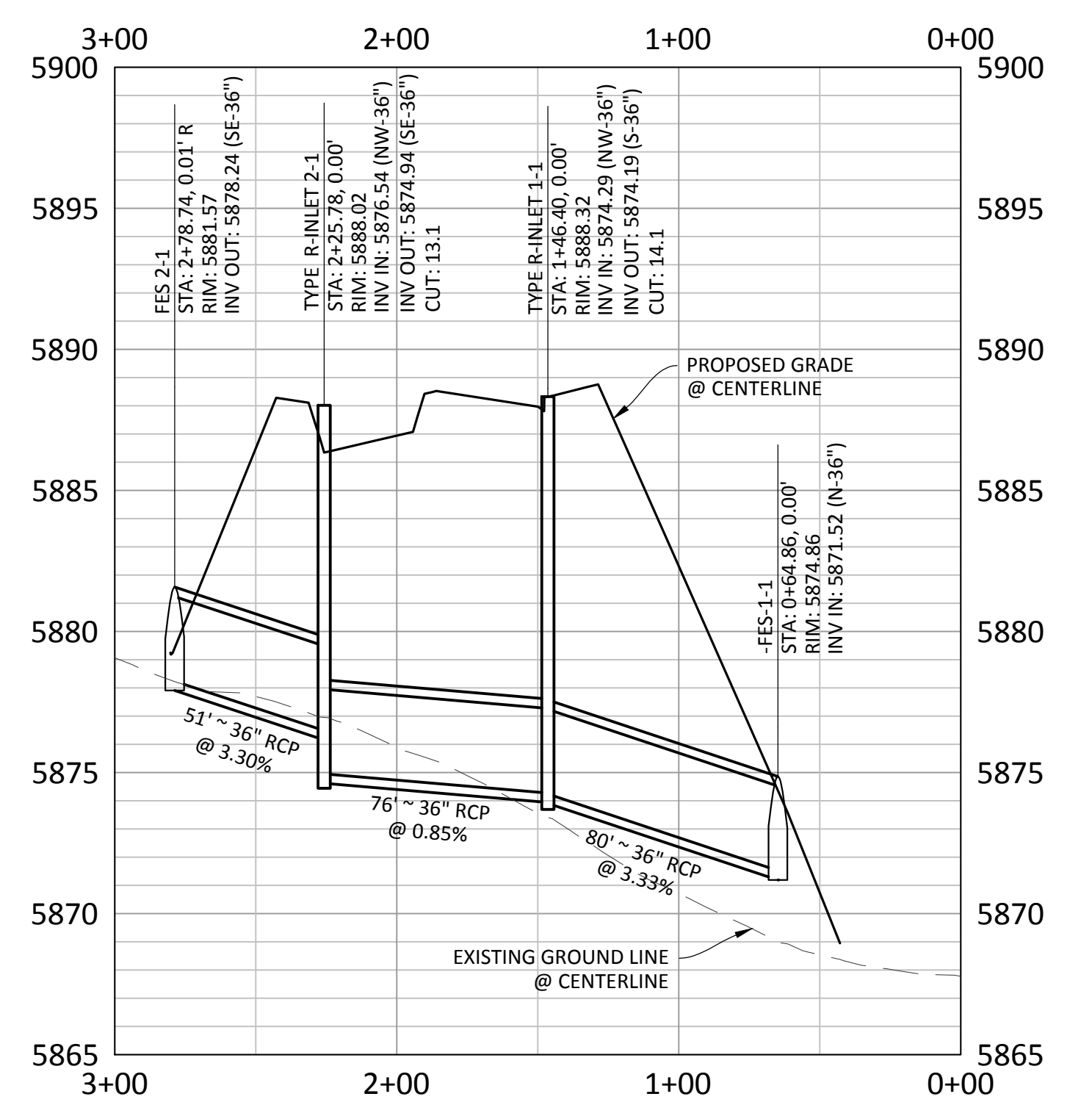
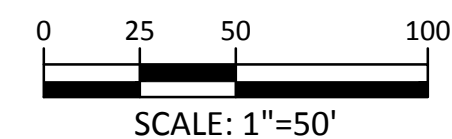
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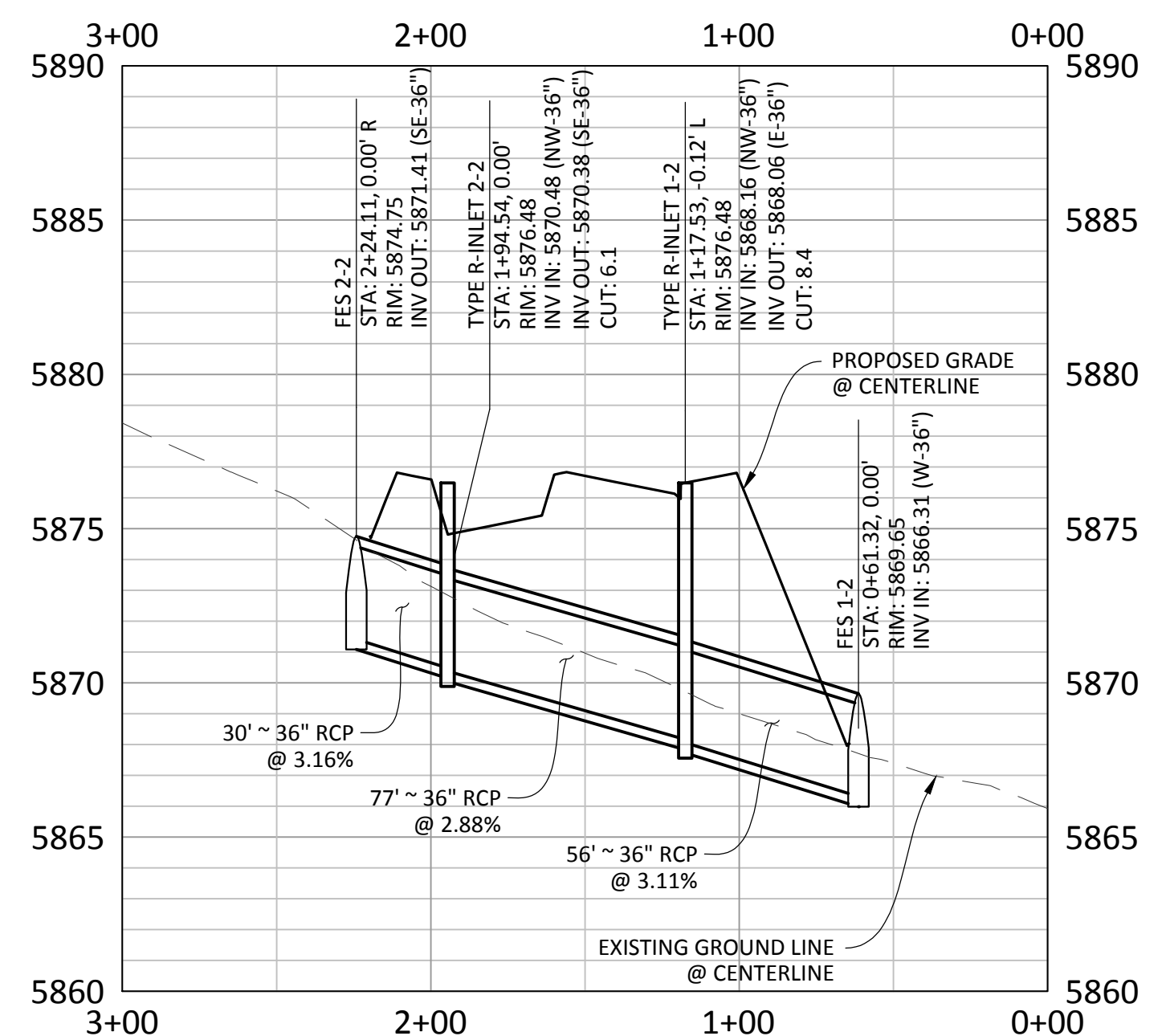
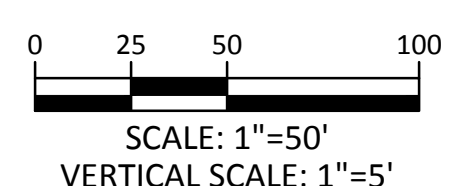
PLAN: STORM-1



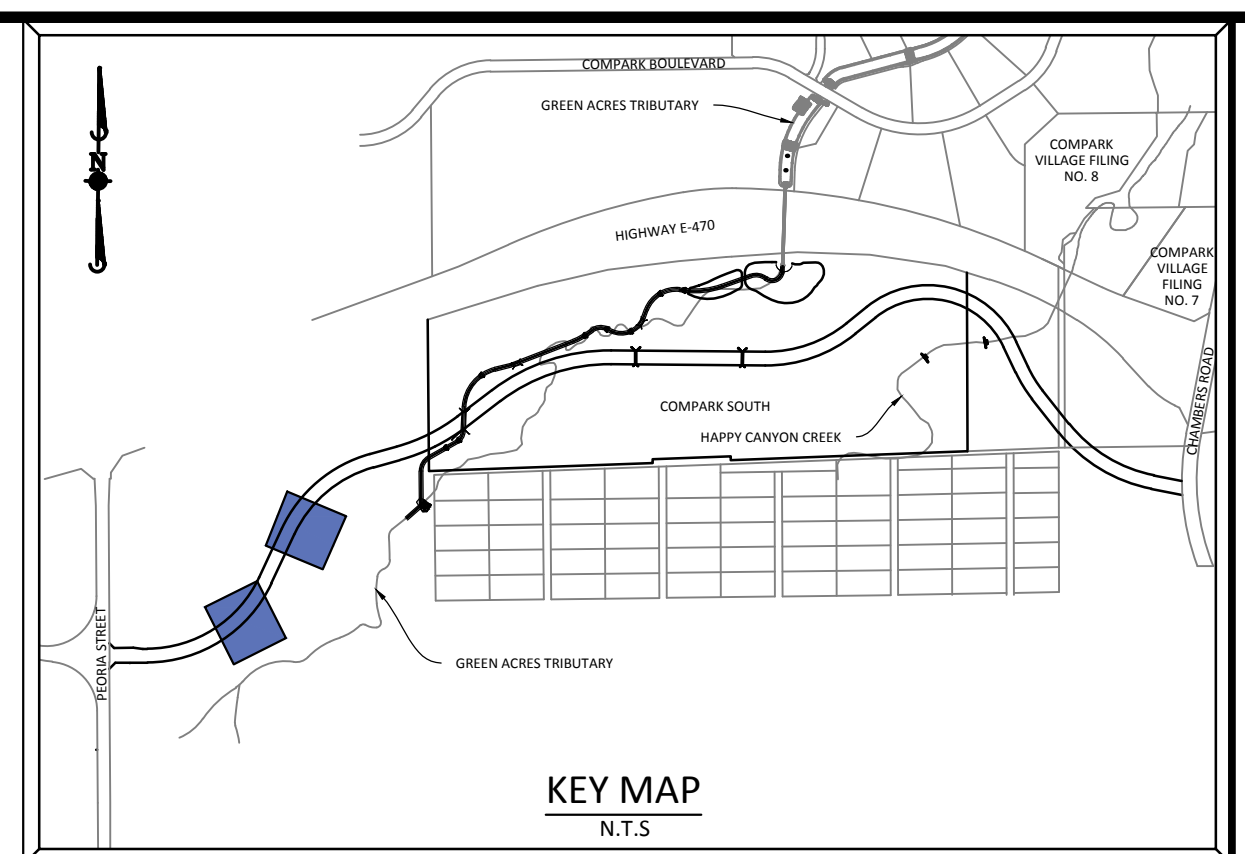
PLAN: STORM-2



PROFILE: STORM-1
BELFORD AVE @ STA. 29+38.95



PROFILE: STORM-2
BELFORD AVE @ STA. 21+33.73



SOURCE BENCHMARKS:
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



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| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

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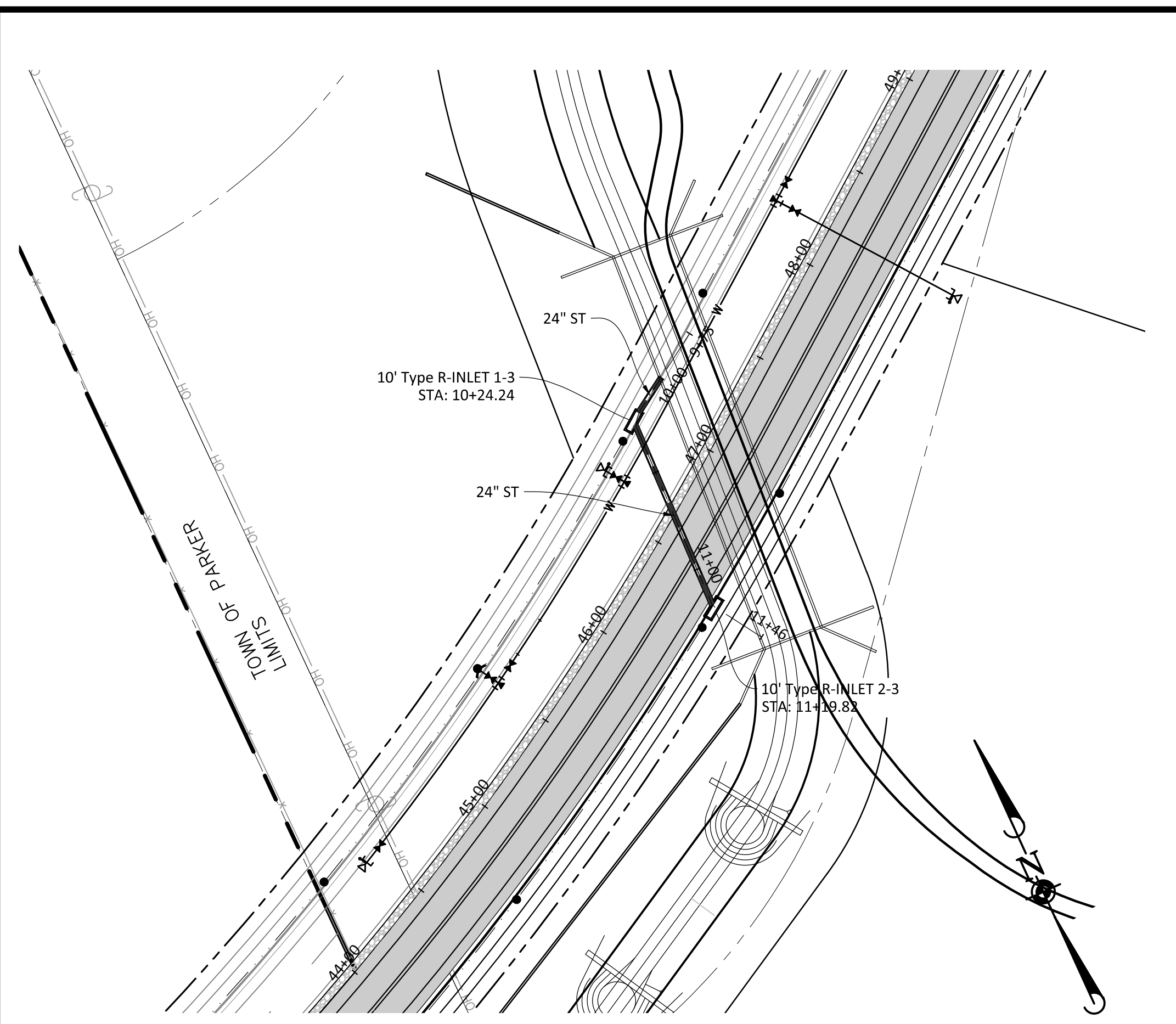
COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 STORM P&P

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| PROJ. MGR.: | RLB |
| PROJ. ASSOC.: | BRB |
| DRAWN BY: | ETG |
| DATE: | 12/2015 |
| SHEET | |
| 17 OF 32 | |
| CLCPKC3 | |

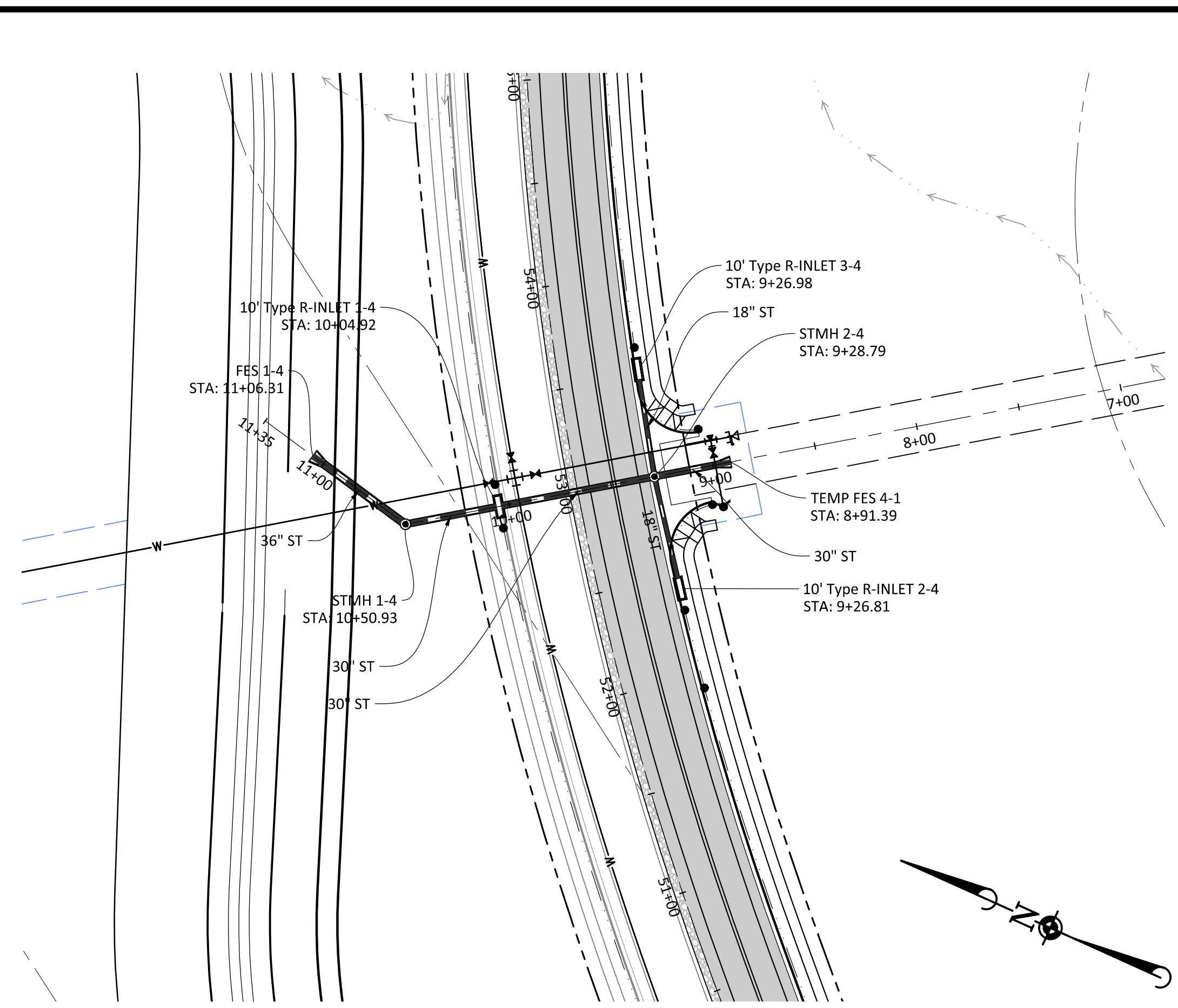
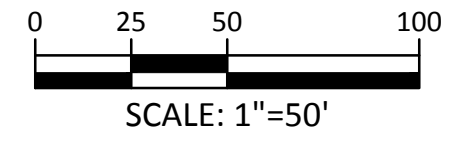
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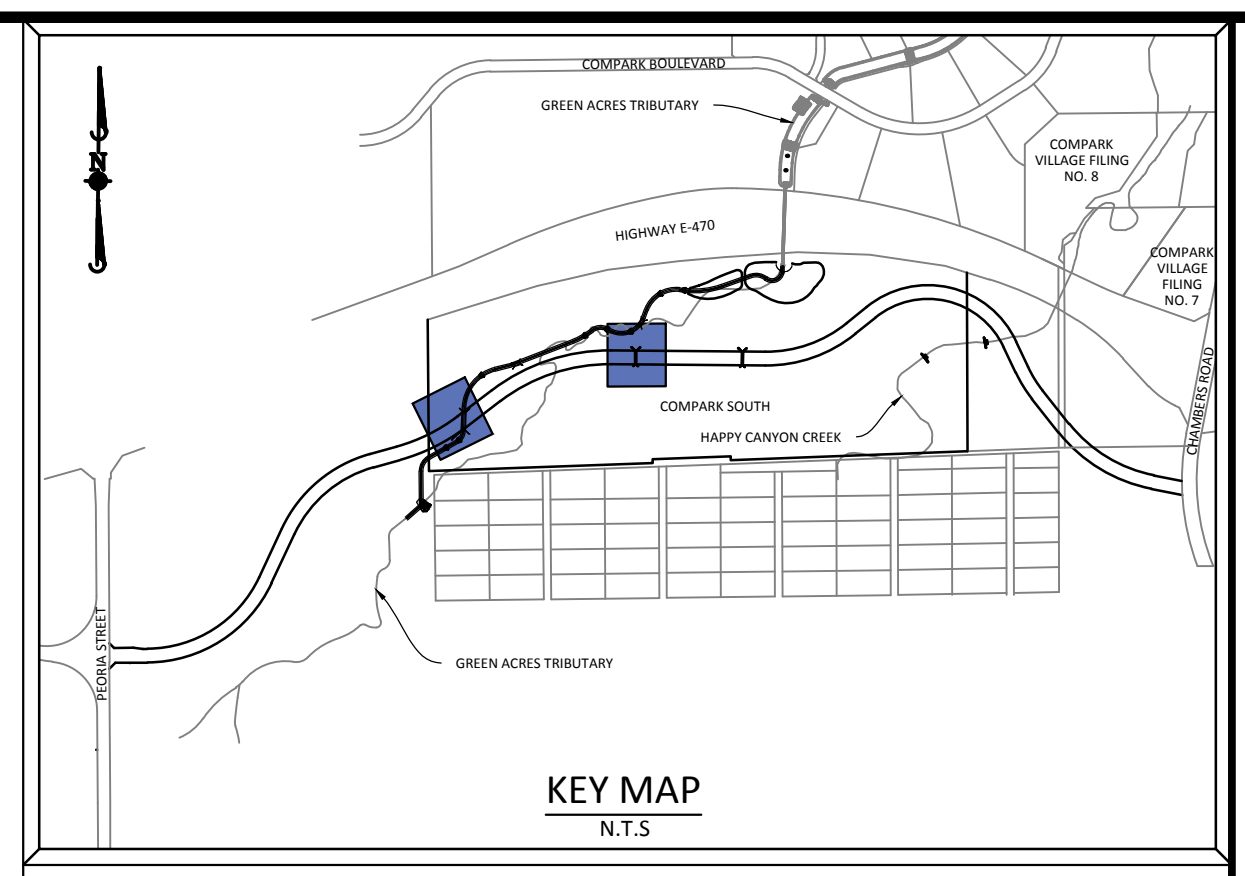
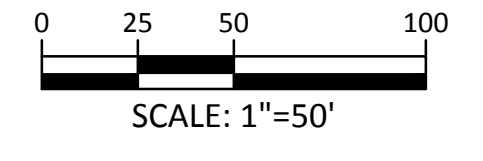
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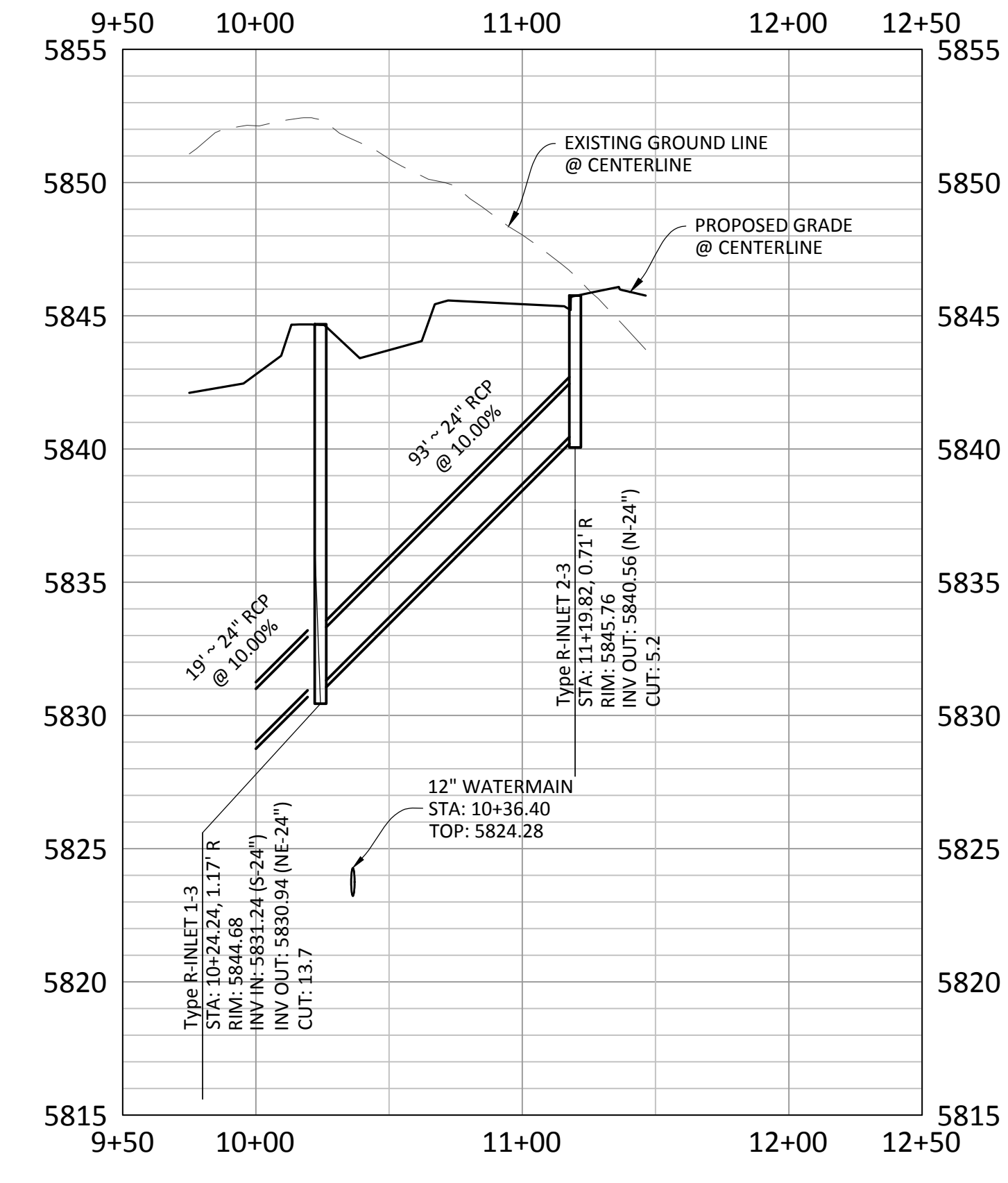
PLAN: STORM-3



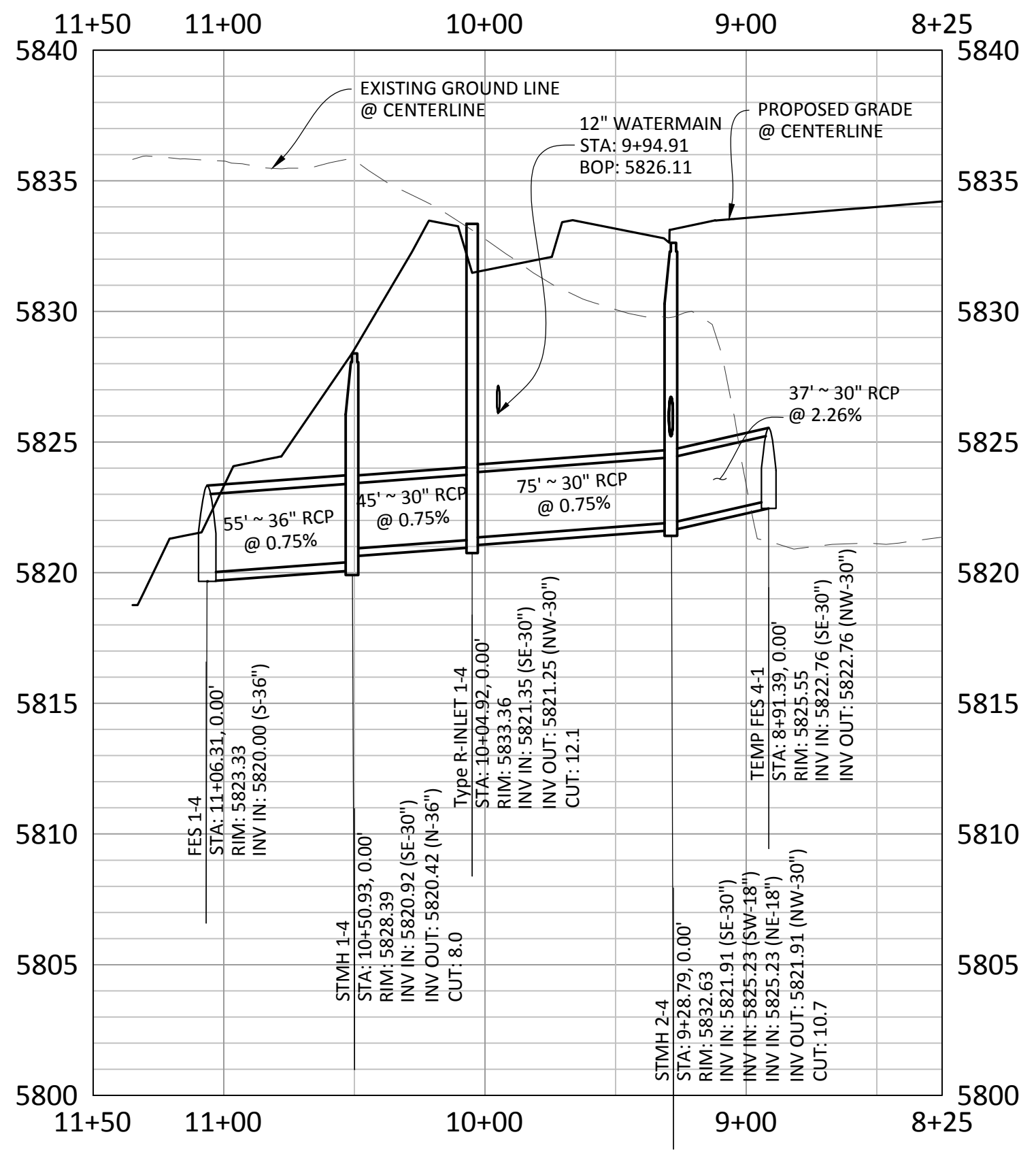
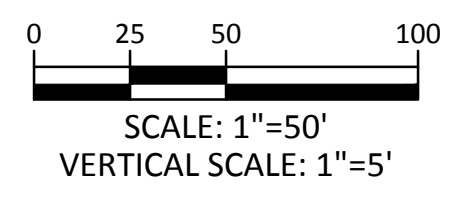
PLAN: STORM-4



SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



PROFILE: STORM-3
 BELFORD AVE CL STA. 46+64.73



PROFILE: STORM-4
 BELFORD AVE CL STA. 53+00.13



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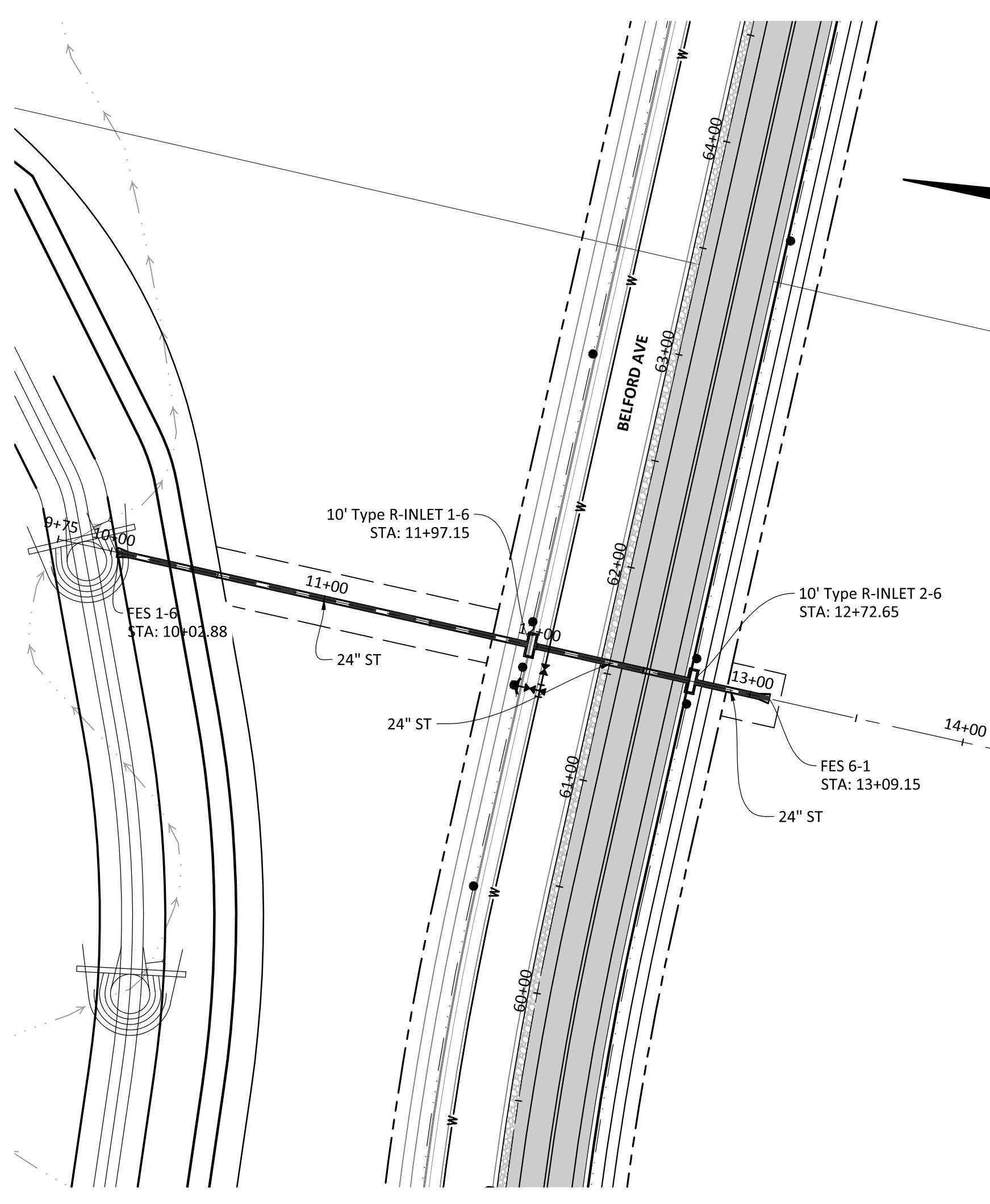
COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 STORM P&P

PROJ. MGR.: RLB
 PROJ. ASSOC.: BRB
 DRAWN BY: ETG
 DATE: 12/2015

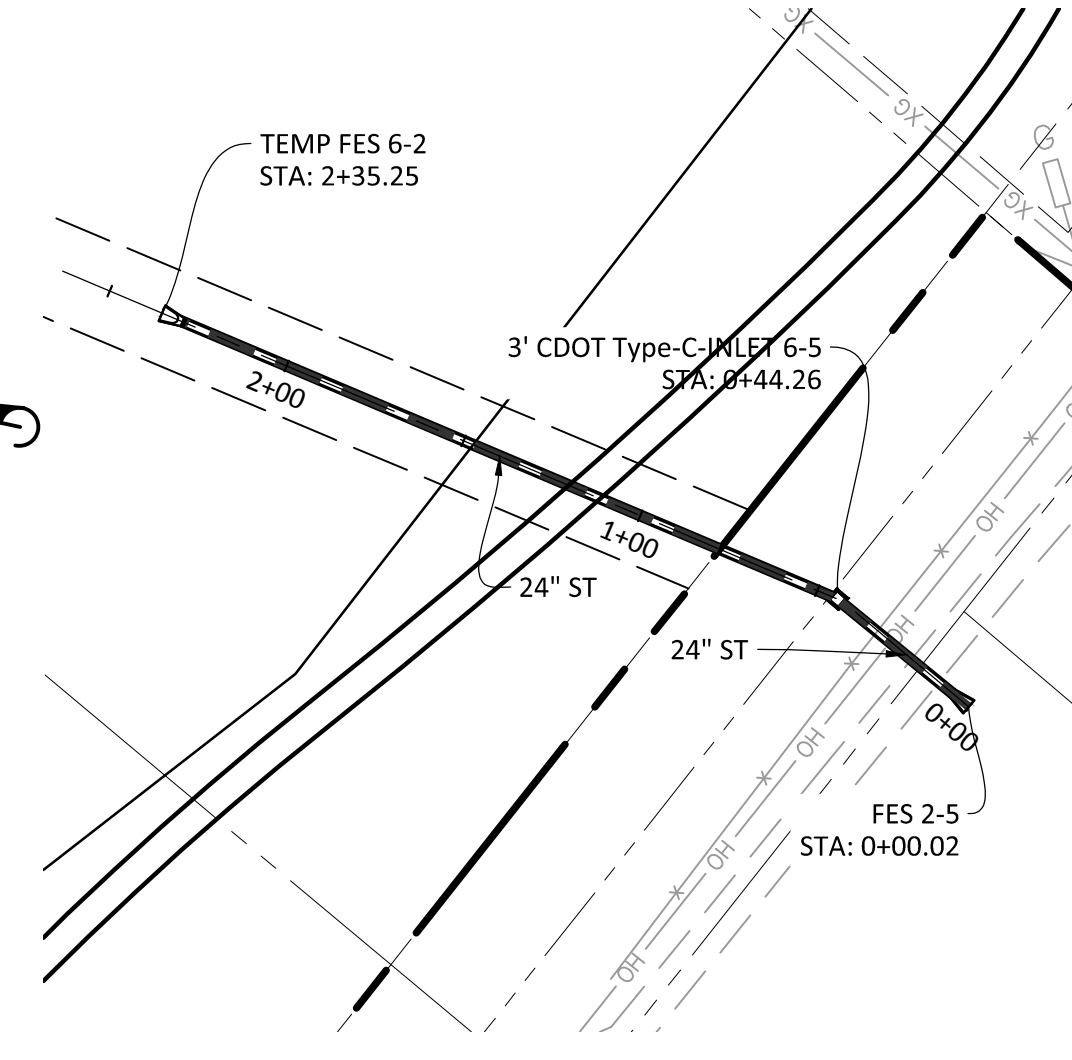
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18 OF 32
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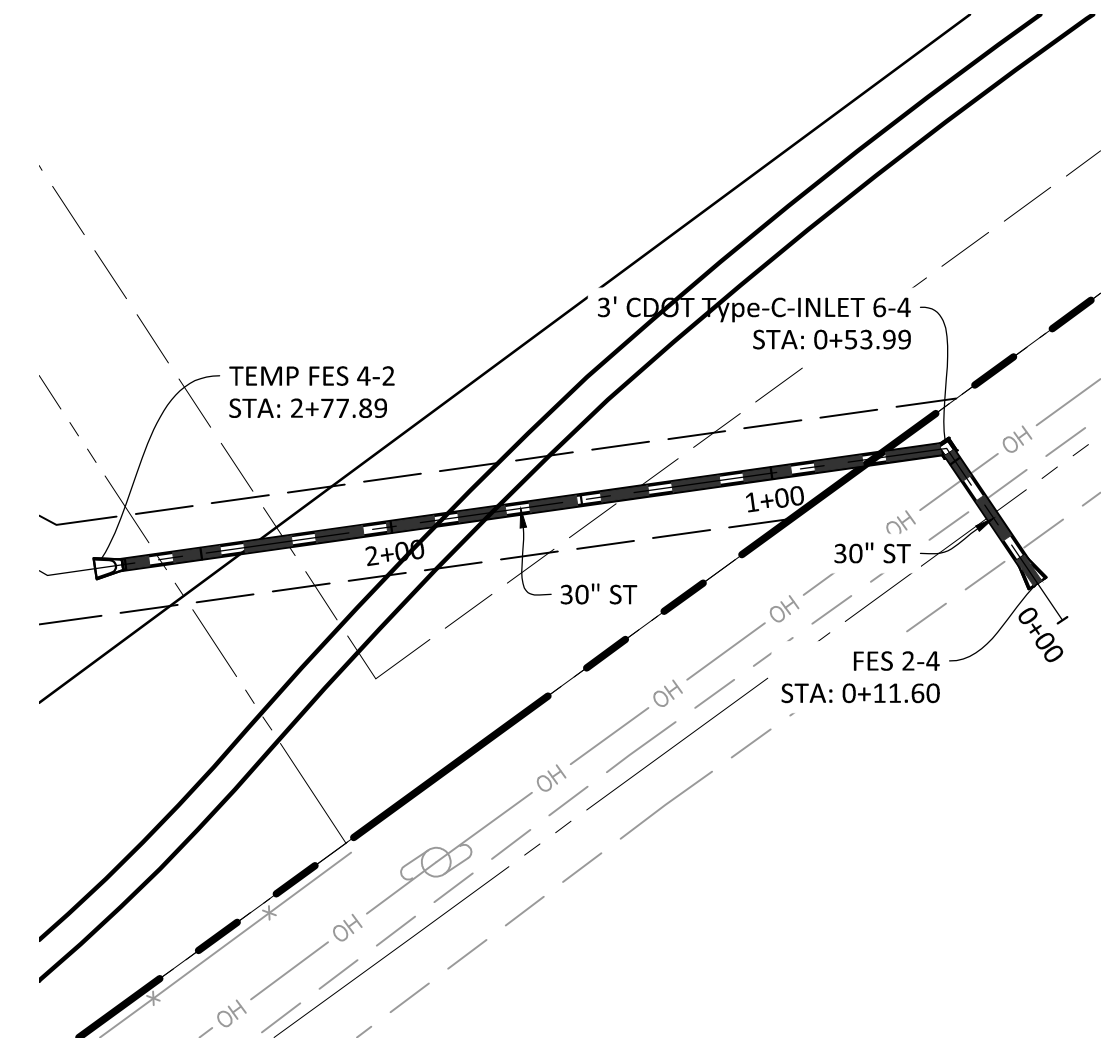
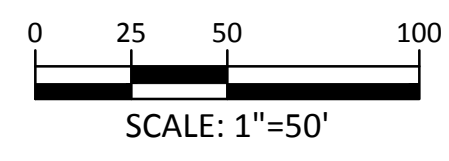
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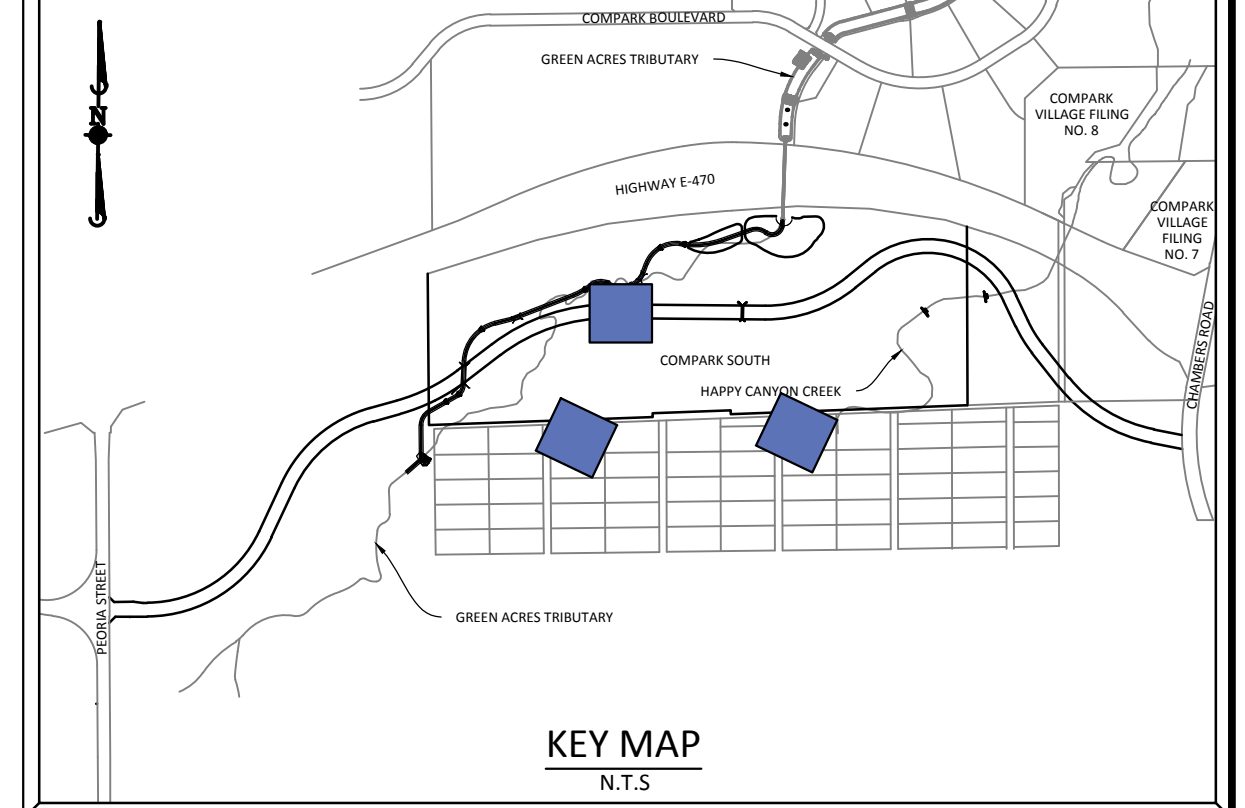
PLAN: STORM-5



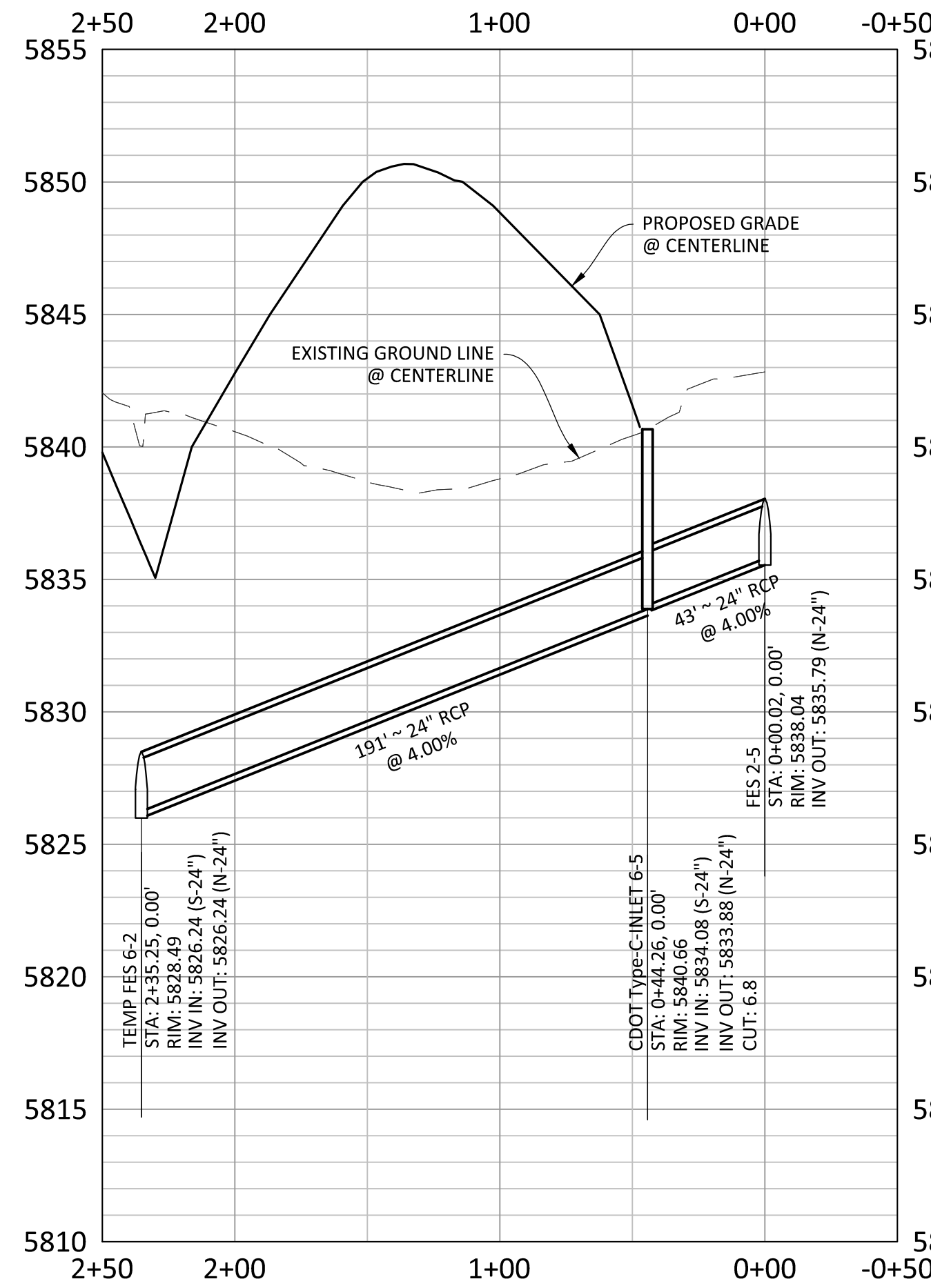
PLAN: STORM-6 (EAST BERM)



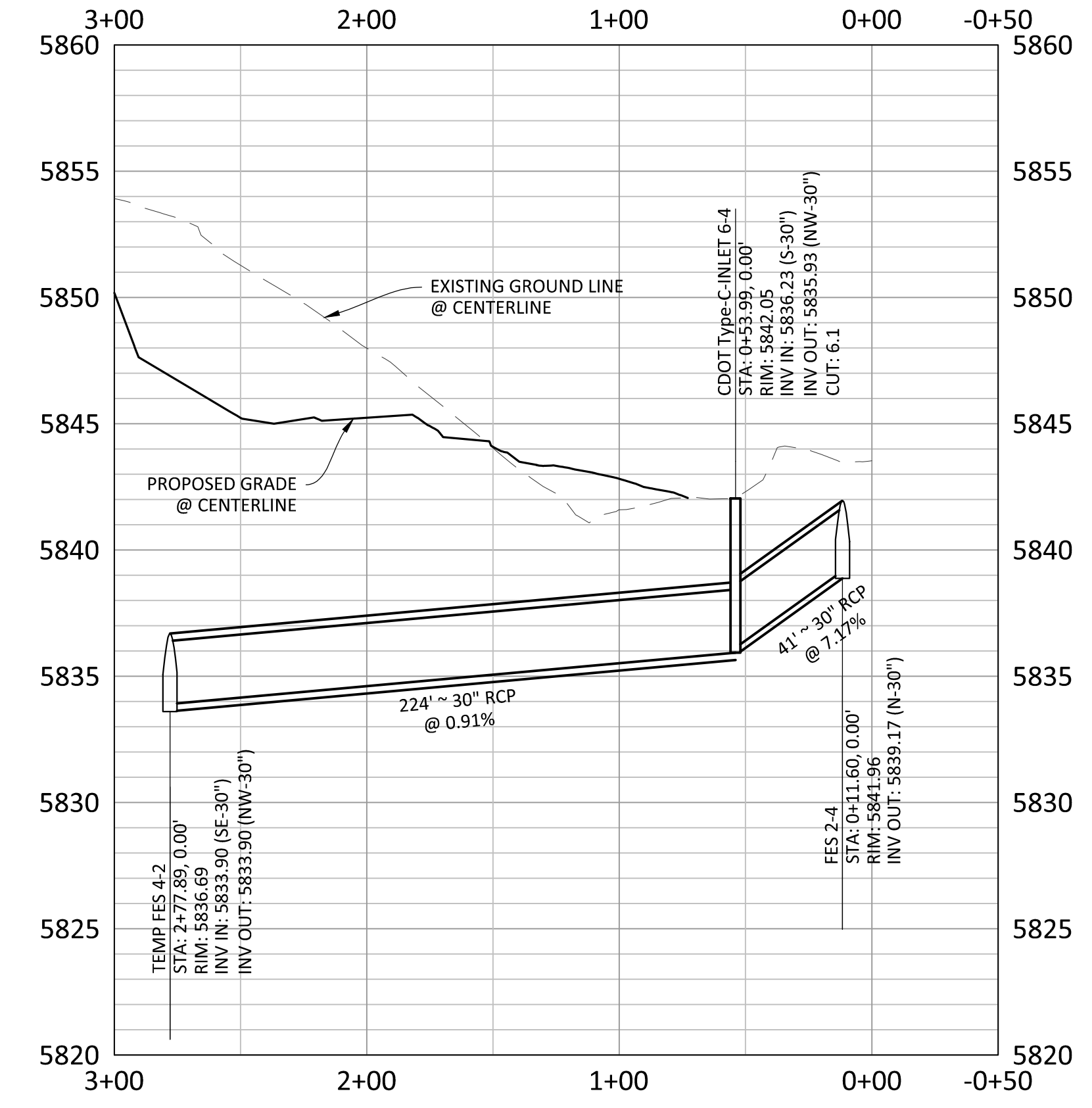
PLAN: STORM-4 (WEST BERM)



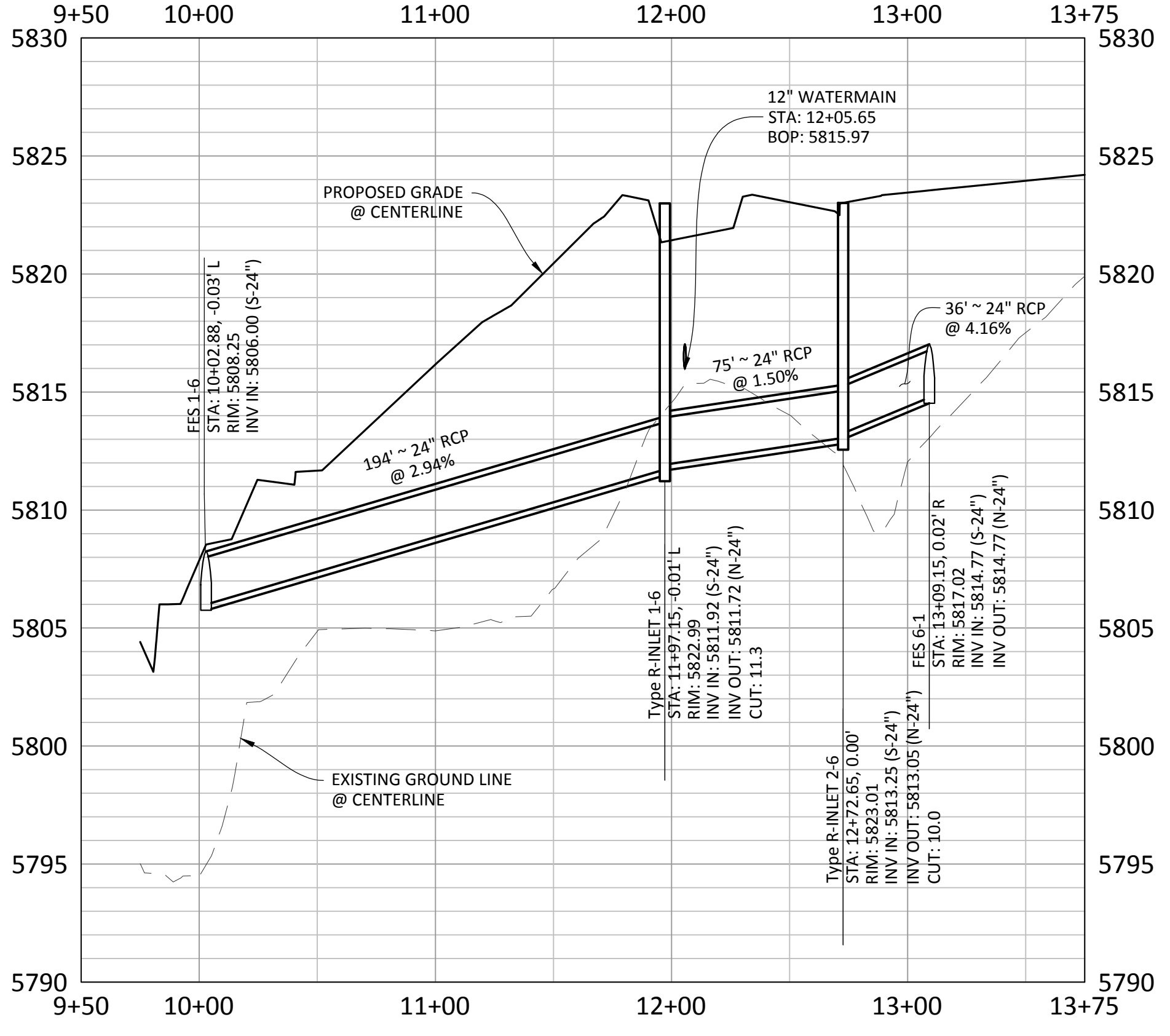
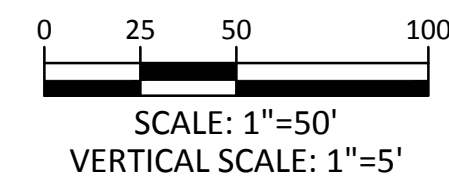
SOURCE BENCHMARKS:
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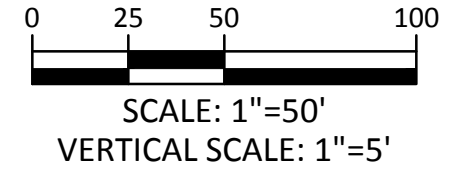
PROFILE: STORM-5 (EAST BERM)



PROFILE: STORM-4 (WEST BERM)



PROFILE: STORM-6
 BELFORD AVE @ STA. 61+55.10



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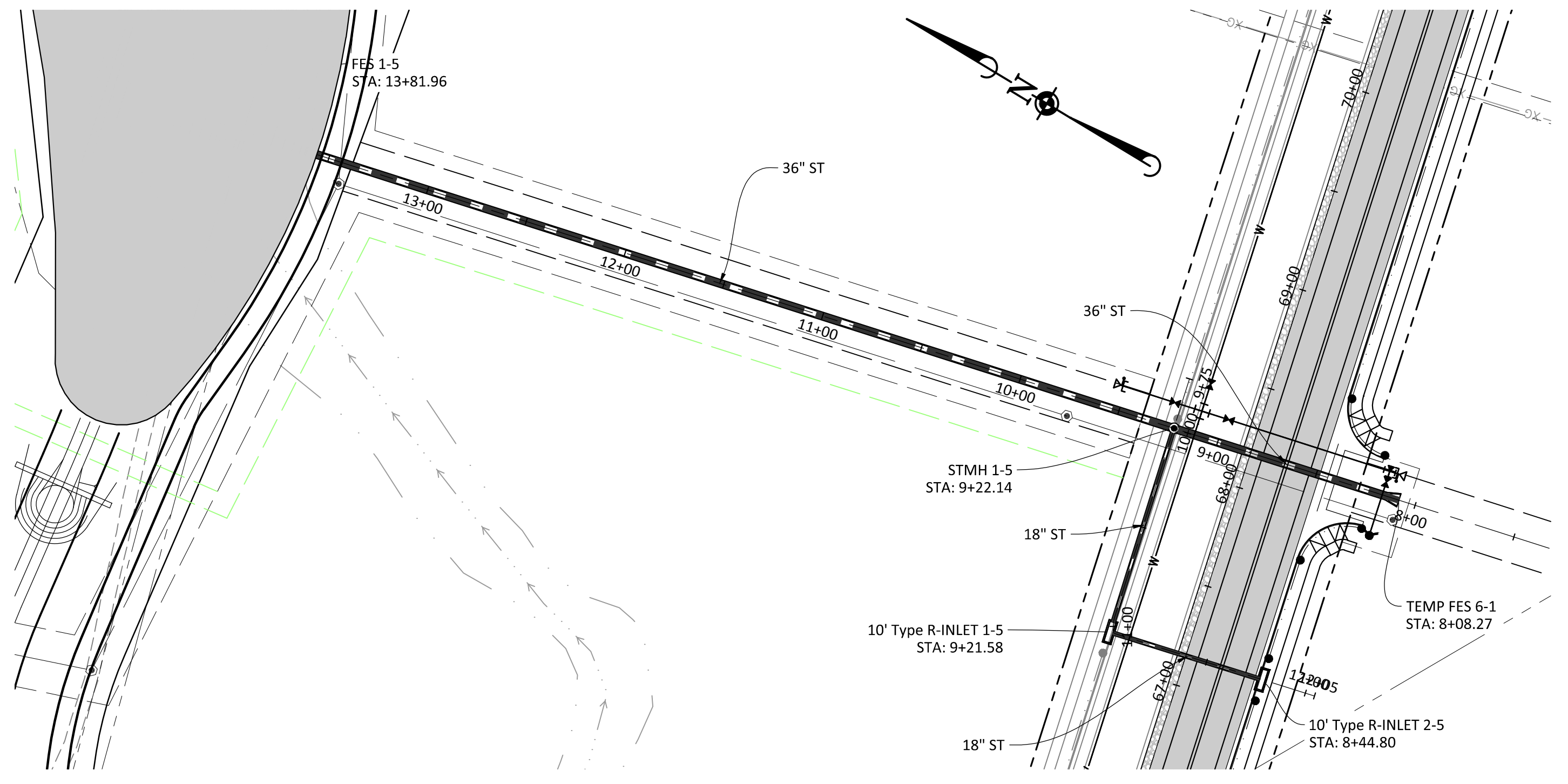
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| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

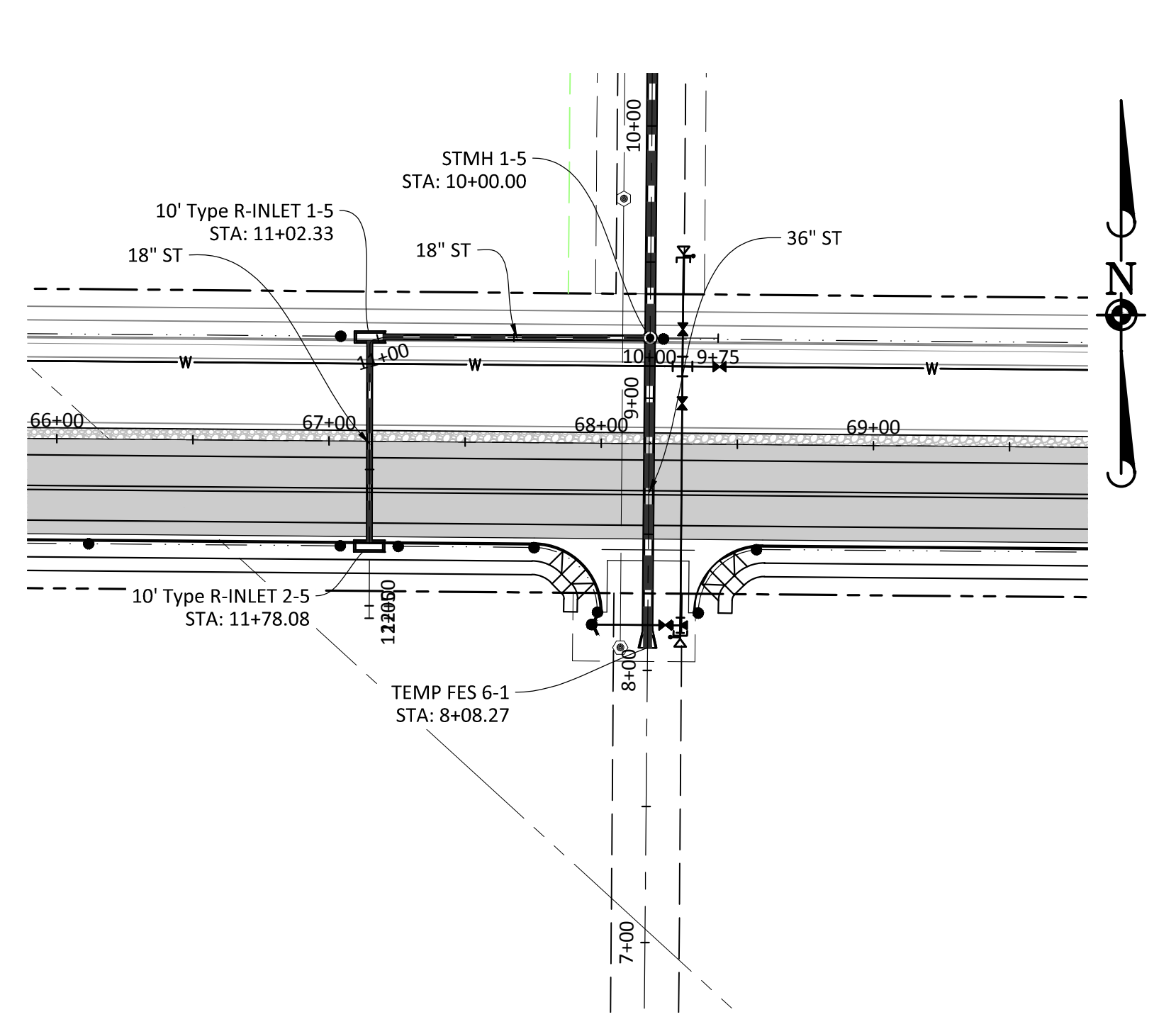


DRAWN BY: []
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 REVISIONS: []
 PROJECT: COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 STORM P&P
 SHEET 19 OF 32
 CLCPKC3
 PENDING APPROVAL

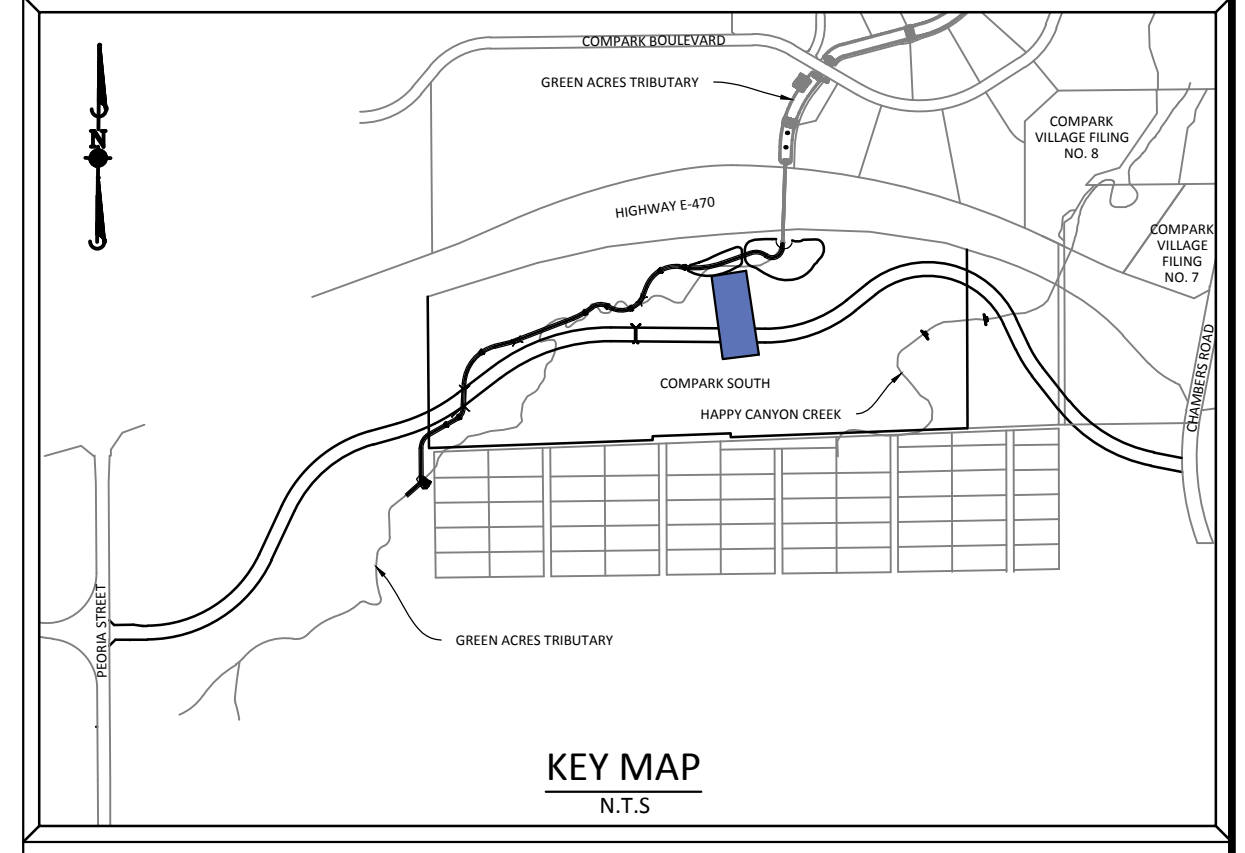
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PLAN: STORM-6

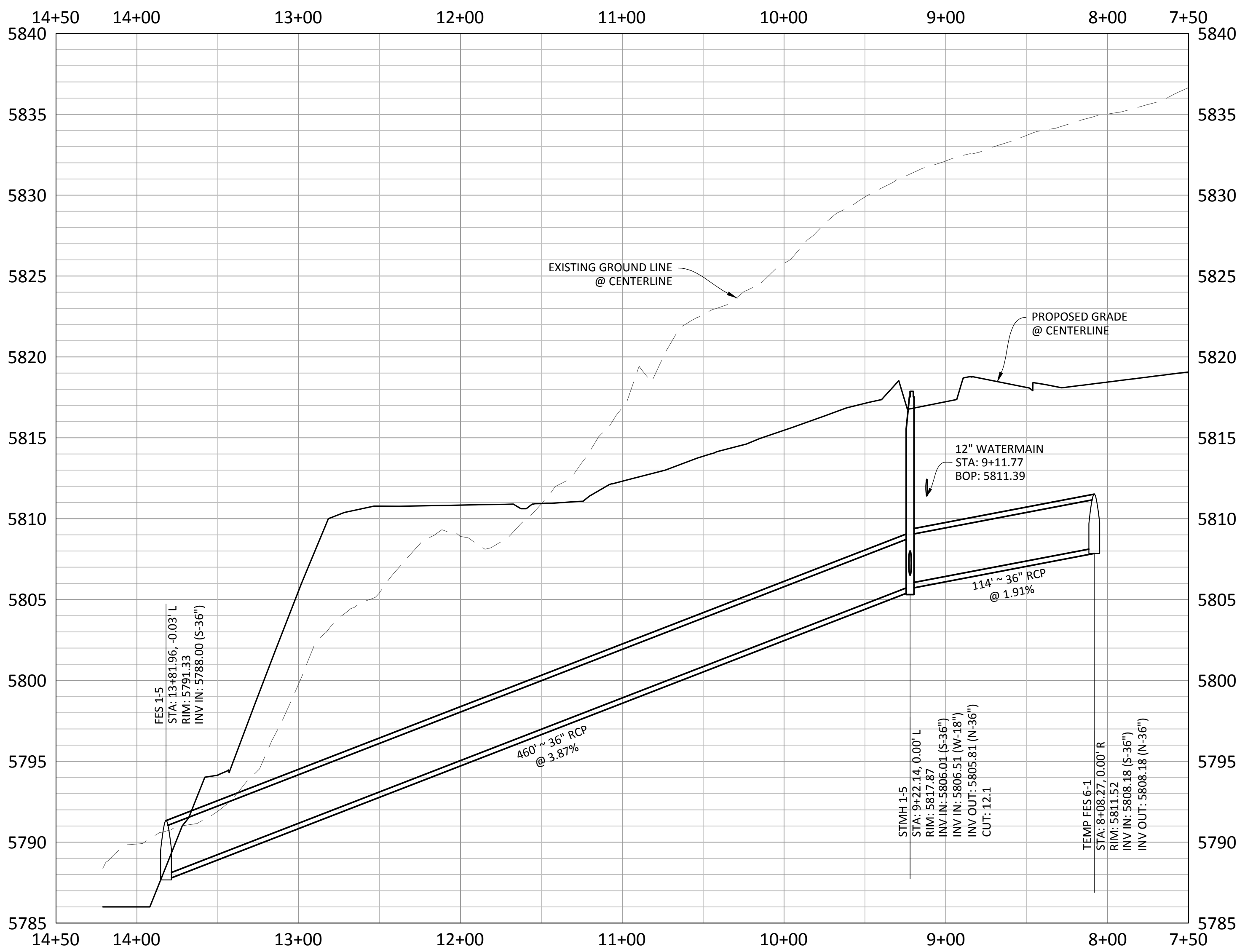


PLAN: STORM-6A

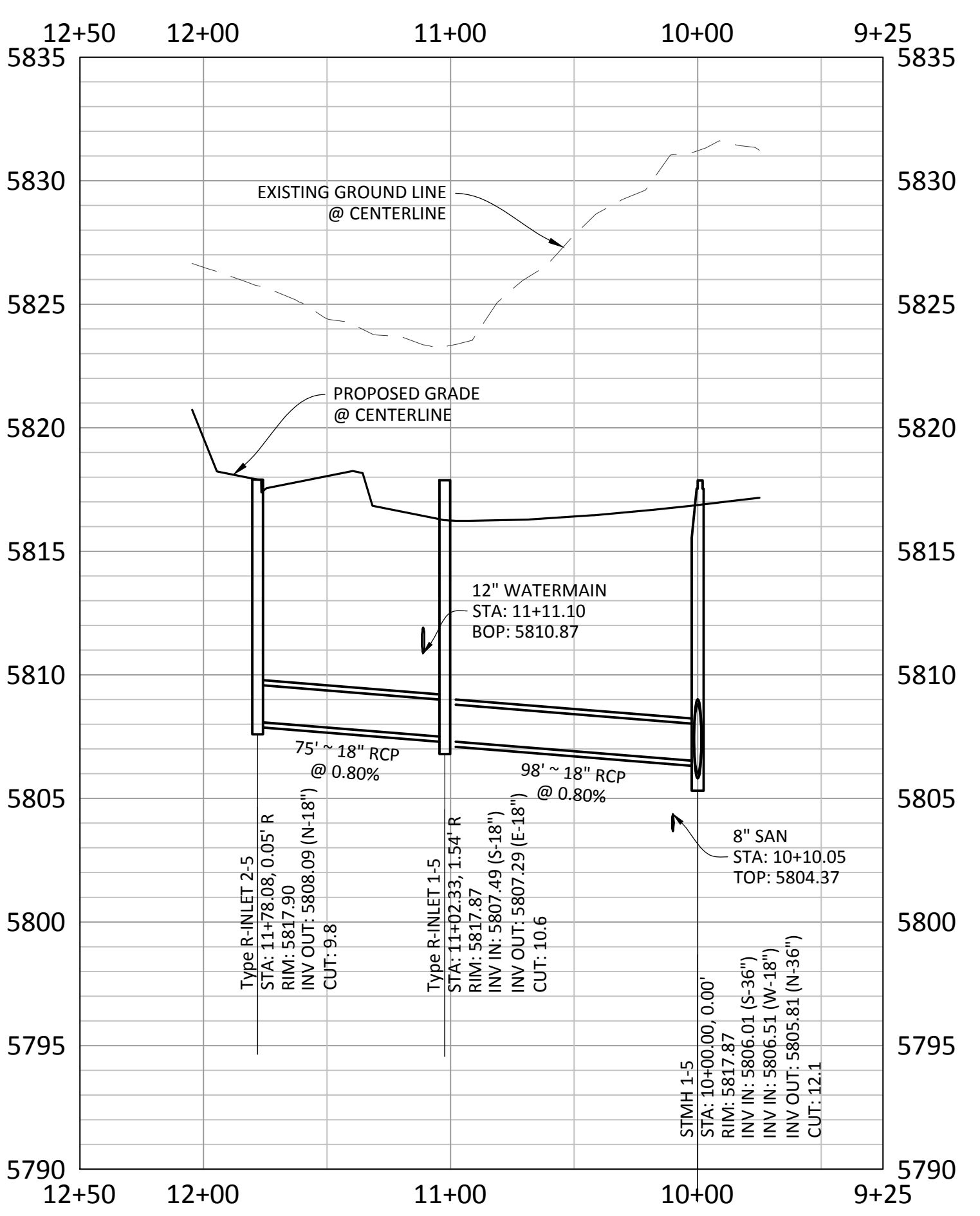


KEY MAP
N.T.S.

SOURCE BENCHMARKS:
DOUGLAS COUNTY BM 1.115010
A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET
SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF
THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



PROFILE: STORM-5
BELFORD AVE CL STA. 68+17.60



PROFILE: STORM-5A
BELFORD AVE CL STA. 67+14.89



TOWN OF PARKER APPROVALS

THE TOWN OF PARKER REVIEW CONSTITUTES GENERAL COMPLIANCE WITH THE TOWNS STANDARDS AND APPROVED VARIANCES, SUBJECT TO THESE PLANS BEING STAMPED, SIGNED, AND DATED BY THE PROFESSIONAL ENGINEER OF RECORD. REVIEW BY THE TOWN DOES NOT CONSTITUTE APPROVAL OF THE PLAN DESIGN OR ACCURACY AND CORRECTNESS OF ENGINEERING CALCULATION. ERRORS IN THE DESIGN OR CALCULATIONS REMAIN THE RESPONSIBILITY OF THE REGISTERED PROFESSIONAL ENGINEER WHOSE STAMP AND SIGNATURE ARE AFFIXED TO THIS DOCUMENT.

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| | |
|---|------|
| TOWN OF PARKER, PUBLIC WORKS DIRECTOR | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

| | | |
|-----------|---------|---------------|
| DATE | 11/2015 | 1ST SUBMITTAL |
| REVISIONS | | |
| DRAWN BY | | EG |

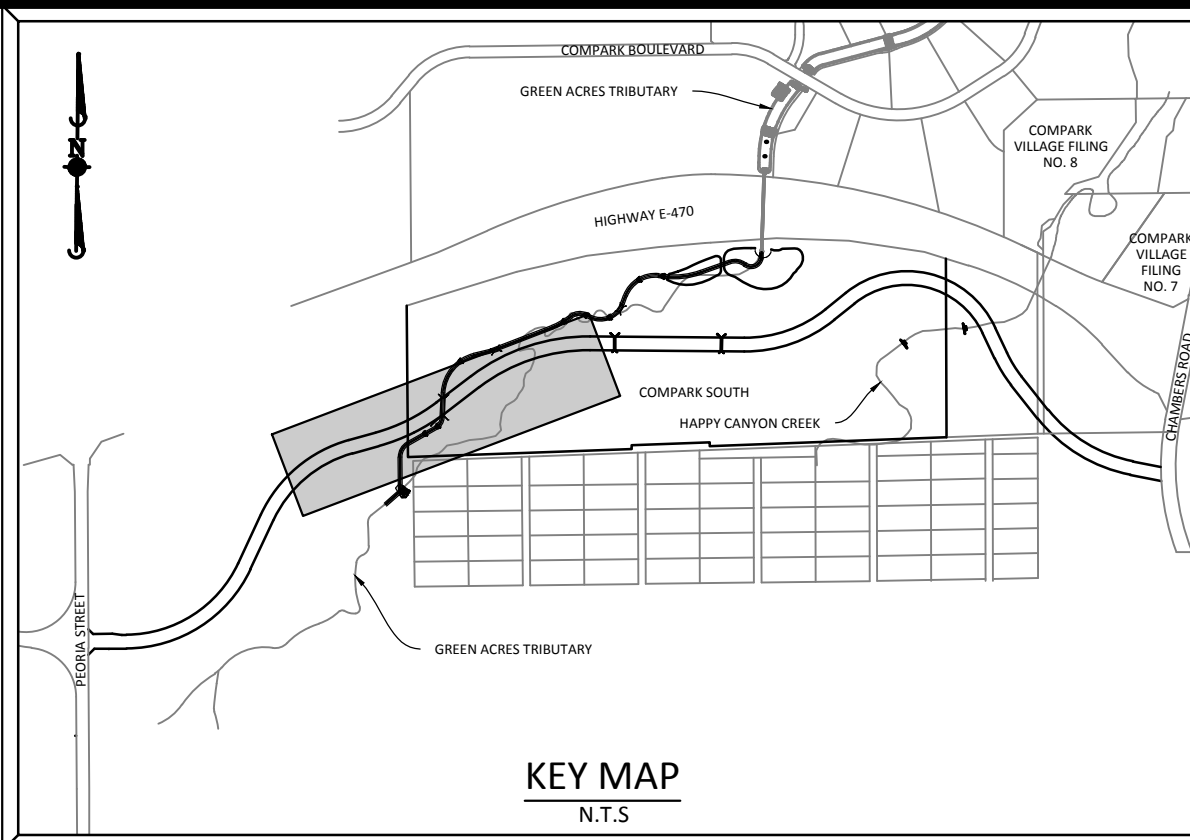
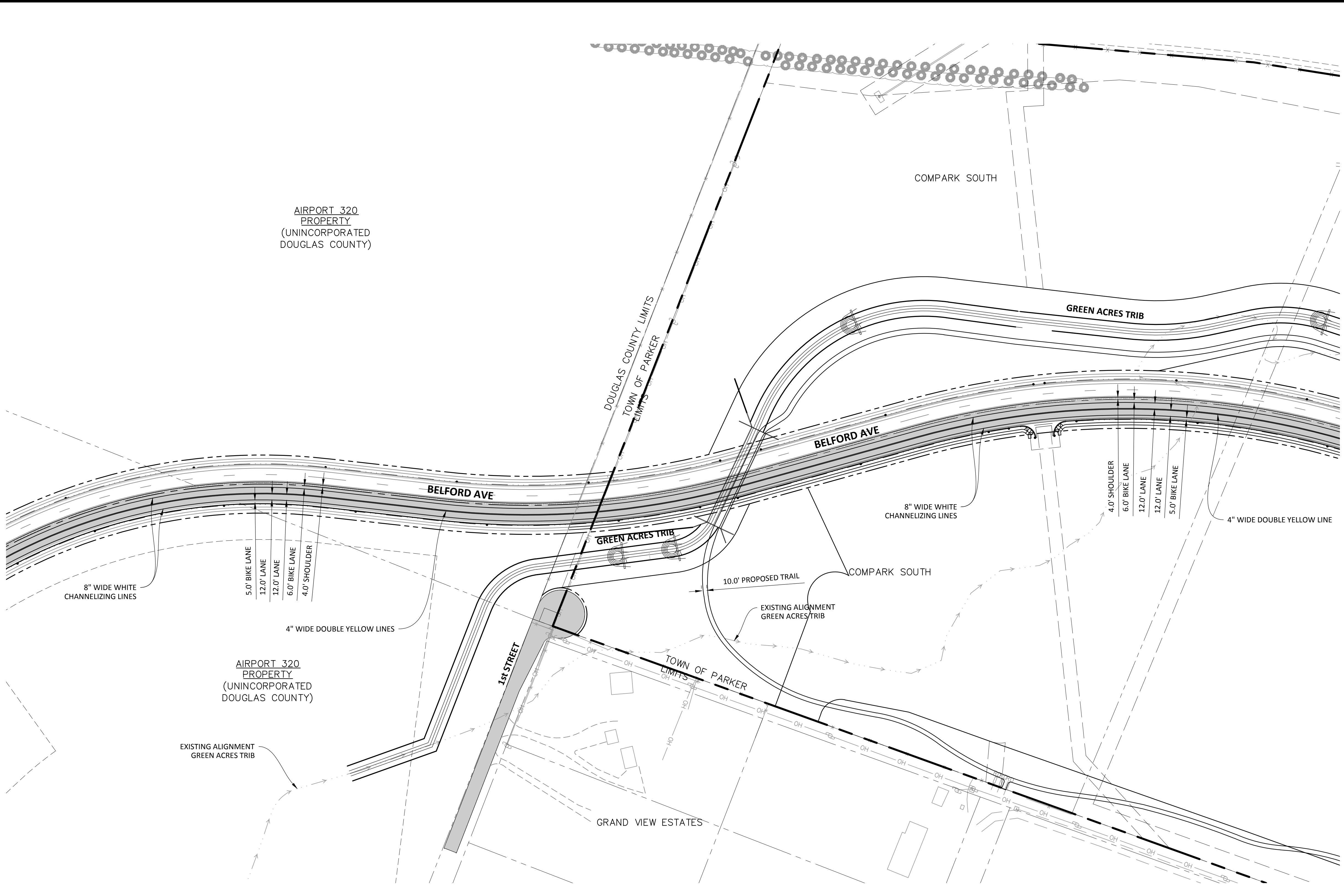
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COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 STORM P&P

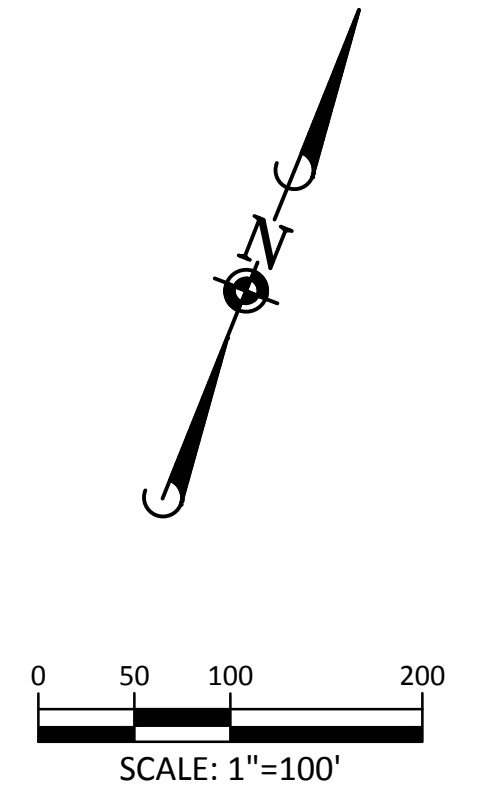
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PENDING APPROVAL

Plotted: 12/16/2015 5:27 PM, Day: Name: p:\c\c\c\3\coment\03\ultimate_belford_south\Town\CLCPKC_Signage_and_Striping_21.dwg, Updated By: bbrankis



SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF THE CENTERLINE OF COMPARK BOULEVARD. ELEVATION = 5752.84 (NAVD 88)



Know what's below.
 Call before you dig.

| LEGEND | |
|--------|--|
| | CROSS WALK 24" X 10' WHITE EVENLY SPACED |
| | THROUGH LANE |
| | LEFT TURN ONLY |
| | RIGHT TURN ONLY |
| | LEFT OR THROUGH ONLY |
| | RIGHT OR THROUGH ONLY |

NOTES
 1. ALL LANES ARE 12' WIDE UNLESS LABELLED OTHERWISE.

SIGNAGE AND STRIPING NOTES:

1. ALL TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE MOST RECENT VERSION OF THE FEDERAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD), COLORADO SUPPLEMENTAL MUTCD, AND THE TOWN OF PARKER ROADWAY DESIGN AND CONSTRUCTION CRITERIA MANUAL. FURTHER SPECIFICATIONS AND ILLUSTRATIONS ARE LOCATED IN THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) M AND S STANDARDS.
2. A FIELD INSPECTION OF LOCATION AND INSTALLATION OF ALL SIGNS AND MARKING SHALL BE PERFORMED BY THE TOWN OF PARKER.
3. THE CONTRACTOR INSTALLING SIGNS SHALL BE RESPONSIBLE FOR THE LOCATING AND PROTECTING OF ALL UNDERGROUND UTILITIES.
4. TYPE III (LIGHTED) BARRICADES SHALL BE SET AT THE ENDS OF ROADWAYS SEPARATING FINISHED (AND/OR ACCEPTED) AND UNFINISHED CONSTRUCTION AREAS AND SHALL BE MAINTAINED BY THE CONTRACTOR/DEVELOPER. A "ROAD CLOSED AHEAD" AND "TO BE EXTENDED" WARNING SIGNS SHALL BE INSTALLED APPROPRIATELY IN ADVANCE OF THE TYPE III BARRICADES.
5. SPECIAL CARE SHALL BE TAKEN IN SIGN LOCATIONS TO ENSURE AN UNOBSTRUCTED VIEW OF EACH SIGN.
6. WHERE STOP SIGN CONTROL IS APPROPRIATE, 36-INCH STOP SIGNS SHALL BE USED FOR APPROACHES TO ANY ROADWAY THAT IS CLASSIFIED AS A COLLECTOR OR GREATER.

SIGNAGE AND STRIPING NOTES (CONT):

7. A 7-FOOT MINIMUM POST LENGTH SHALL BE MAINTAINED FROM THE BOTTOM OF THE SIGN PANEL TO THE GROUND. THIS REQUIREMENT FOR VERTICAL CLEARANCE IS FOR ALL SIGNS.
8. DELINEATION OF ROADWAYS SHALL BE AS SPECIFIED IN THE COLORADO DEPARTMENT OF TRANSPORTATION M AND S STANDARDS.
9. RAISED MEDIAN ISLAND NOSES SHALL HAVE R4-7 SIGNS AT EACH END.
10. SIGNAGE AND STRIPING HAVE BEEN DETERMINED BY INFORMATION AVAILABLE AT THE TIME OF REVIEW. PRIOR TO THE INITIATION OF ANY WARRANTY PERIOD, THE TOWN OF PARKER RESERVES THE RIGHT TO REQUIRE MODIFICATIONS TO EXISTING, OR INSTALLATION OF, ADDITIONAL SIGNAGE AND/OR PAVEMENT MARKING IF IT IS DETERMINED THAT CONDITIONS WARRANT SUCH MODIFICATION ACCORDING TO THE MUTCD OR THE CDOT M AND S STANDARDS. ALL SIGNAGE AND STRIPING SHALL FALL UNDER THE REQUIREMENTS OF THE TWO-YEAR WARRANTY PERIOD FOR NEW CONSTRUCTION. ADDITIONALLY, ALL PAVEMENT MARKING SHALL NOT LIFT OR PEEL DURING THE FIRST YEAR AFTER INSTALLATION.
11. DIAMOND GRADE MATERIAL SHALL BE USED ON ALL STOP SIGN AND OVERHEAD SIGNS. ALL OTHER ROADSIDE TRAFFIC CONTROL DEVICES SHALL USE HIGH INTENSITY GRADE SHEETING. NO FLUORESCENT YELLOW-GREEN SHEETING SHALL BE USED UNLESS SPECIFICALLY APPROVED BY THE TOWN OF PARKER.

SIGNAGE AND STRIPING NOTES (CONT):

12. ALL STREET NAME SIGNS SHALL BE HIGH INTENSITY, EXTRUDED, GREEN AND WHITE BLADES. ARTERIAL AND COLLECTOR STREET NAME SIGNS SHALL BE 9-INCH BLADES AND HAVE MIXED CASE LETTERING. LOCAL STREET NAME SIGNS SHALL BE 6-INCH BLADES WITH ALL CAPITALIZED LETTERING.
13. ALL LAYOUTS FOR INTERNALLY ILLUMINATED STREET NAME SIGNS SHALL BE SUBMITTED TO THE TOWN FOR REVIEW AND APPROVAL PRIOR TO FABRICATION.
14. ALL REMOVED SIGNS SHALL BE RETURNED TO THE TOWN OF PARKER.
15. CROSSWALKS: SHALL BE CONSTRUCTED USING PRE-FORMED THERMOPLASTIC OR AN APPROVED EQUAL.
 - SHALL BE LONGITUDINAL 2- FEET BY 10- FEET (CONTINENTAL) TYPE OR OTHER APPROVED BY THE TOWN OF PARKER.
 - SHALL LINE UP WITH HANDICAP RAMPS.
 - SHALL BE CENTERED WITHIN LANES AND PLACED ON LANE AND CURB LINES SO AS TO AVOID VEHICLE WHEEL PATHS.

SIGNAGE AND STRIPING NOTES (CONT):

FOR CONCRETE SURFACE:
 LONG LINE MARKINGS (CHANNELIZATION LINES, SKIPS, ETC.) SHALL BE EPOXY PAINT. OTHER PAINT MAY BE USED FOR TEMPORARY APPLICATION ONLY WHEN APPROVED BY THE TOWN OF PARKER.

WORDS, SYMBOLS, AND CROSSWALKS/STOP BARS SHALL BE METHYL-MYTHACRALATE, PREFORMED THERMOPLASTIC (90 MIL), PREFORMED PLASTIC (90 MIL), INLAYED TAPE (STAMARK), OR AS SPECIFIED.

(SAND OR WATER BLAST CURING COMPOUND PRIOR TO INSTALLATION OF MARKINGS.)

FOR ASPHALT SURFACE:
 LONG LINE MARKINGS (CHANNELIZATION LINES, SKIPS, ETC.) SHALL BE EPOXY PAINT. OTHER PAINT MAY BE USED FOR TEMPORARY APPLICATION ONLY WHEN APPROVED BY THE TOWN OF PARKER.

WORDS, SYMBOLS, AND CROSSWALKS/STOP BARS SHALL BE HOT APPLIED THERMOPLASTIC (90 MIL), PREFORMED PLASTIC (90 MIL), INLAYED TAPE (STAMARK), METHYL-MYTHACRALATE, OR AS SPECIFIED.

17. INSPECTION AND APPROVAL OF STRIPING AND CROSSWALK LAYOUT TO BE DONE BY TOWN OF PARKER DEVELOPMENT REVIEW ENGINEER (CALL 303-840-9546) PRIOR TO APPLICATION OF FINAL STRIPING.

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|---|------|
| TOWN OF PARKER, PUBLIC WORKS DIRECTOR | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

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|----------|-----------|---------|-----|---------------|------|-----|-------------|
| DRAWN BY | REVISIONS | DATE | NO. | DESCRIPTION | DATE | NO. | DESCRIPTION |
| ETG | | 11/2015 | 1 | 1ST SUBMITTAL | | | |

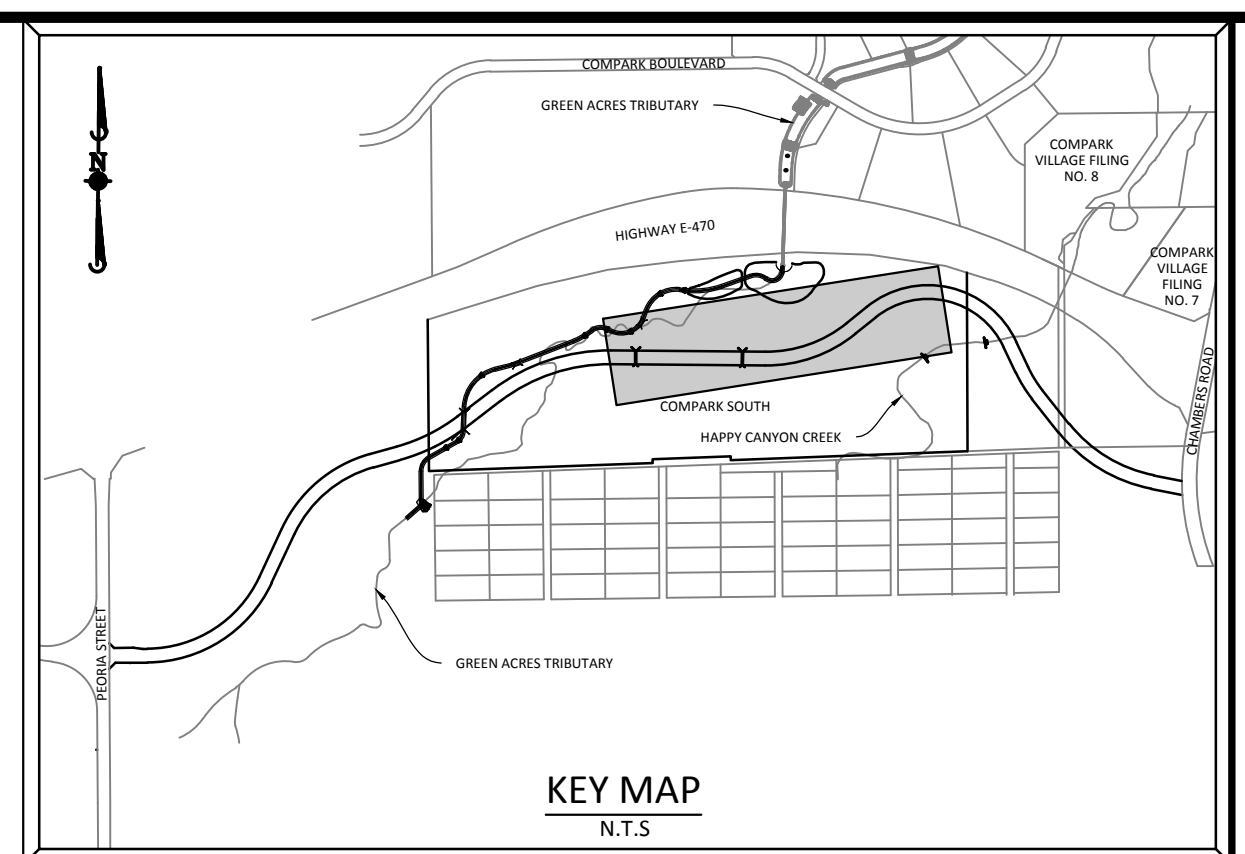
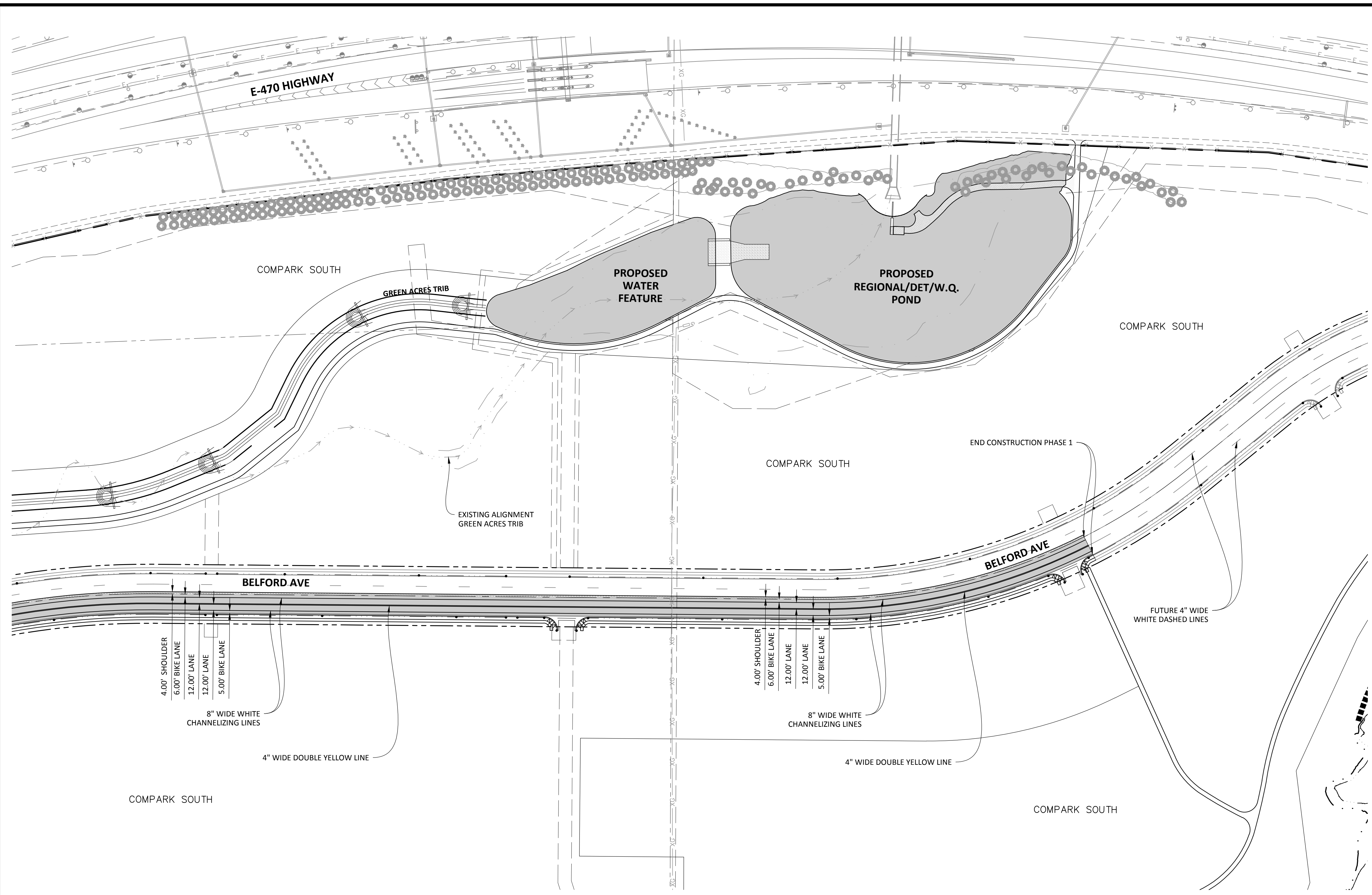
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COMPARK VILLAGE SOUTH - BELFORD AVENUE
TOWN OF PARKER, COLORADO
SIGNAGE AND STRIPING

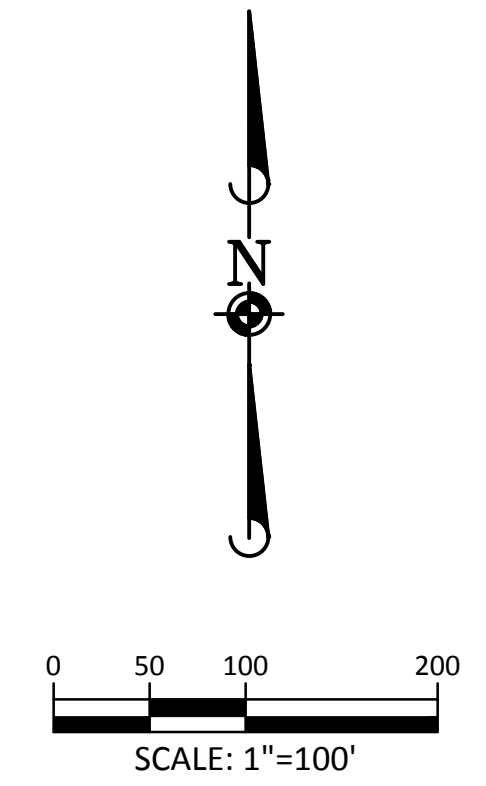
PROJ MGR: RLB
PROJ ASSOC: BBR
DRAWN BY: ETG
DATE: 12/2015

SHEET
26 OF 32
 CLCPKC3

PENDING APPROVAL



SOURCE BENCHMARKS:
 DOUGLAS COUNTY BM 1.115010
 A DOUGLAS COUNTY GIS MONUMENT SET IN CONCRETE LOCATED APPROXIMATELY 130 FEET
 SOUTHWESTERLY OF THE CENTERLINE OF CHAMBERS ROAD AND 95 FEET NORTHWESTERLY OF
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| LEGEND | |
|--|---|
| | CROSS WALK 24" X 10' WHITE EVENLY SPACED THROUGH LANE |
| ↑ | LEFT TURN ONLY |
| ↘ | RIGHT TURN ONLY |
| ↗ | LEFT OR THROUGH ONLY |
| ↙ | RIGHT OR THROUGH ONLY |
| NOTES | |
| 1. ALL LANES ARE 12' WIDE UNLESS LABELLED OTHERWISE. | |

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| | |
|---|------|
| TOWN OF PARKER, PUBLIC WORKS DIRECTOR | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-STORMWATER | DATE |
| TOWN OF PARKER, PUBLIC WORKS MANAGER-TRANSPORTATION | DATE |

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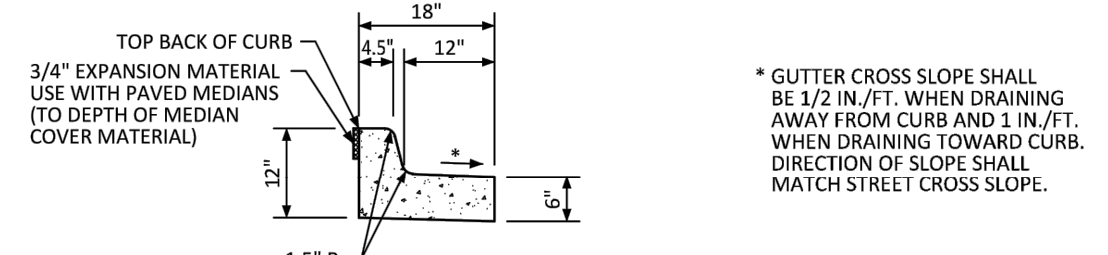
COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 SIGNAGE AND STRIPING

PROJ MGR: RLB
 PROJ ASSOC: BRB
 DRAWN BY: ETG
 DATE: 12/2015

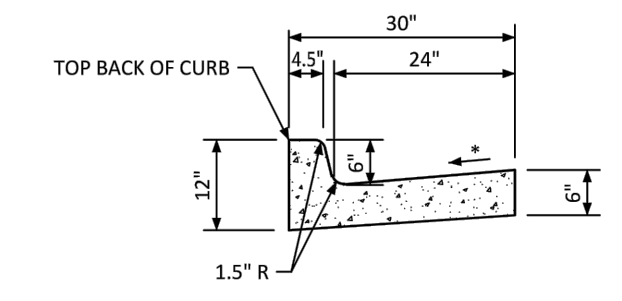
SHEET
27 OF 32
 CLCPKC3

PENDING APPROVAL

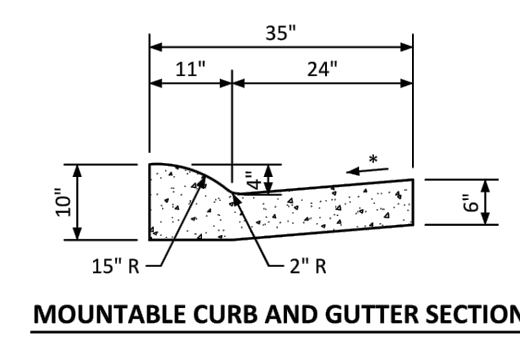
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MEDIAN CURB AND GUTTER SECTION
(CDOT CURB AND GUTTER TYPE 2 (SECTION II-B))



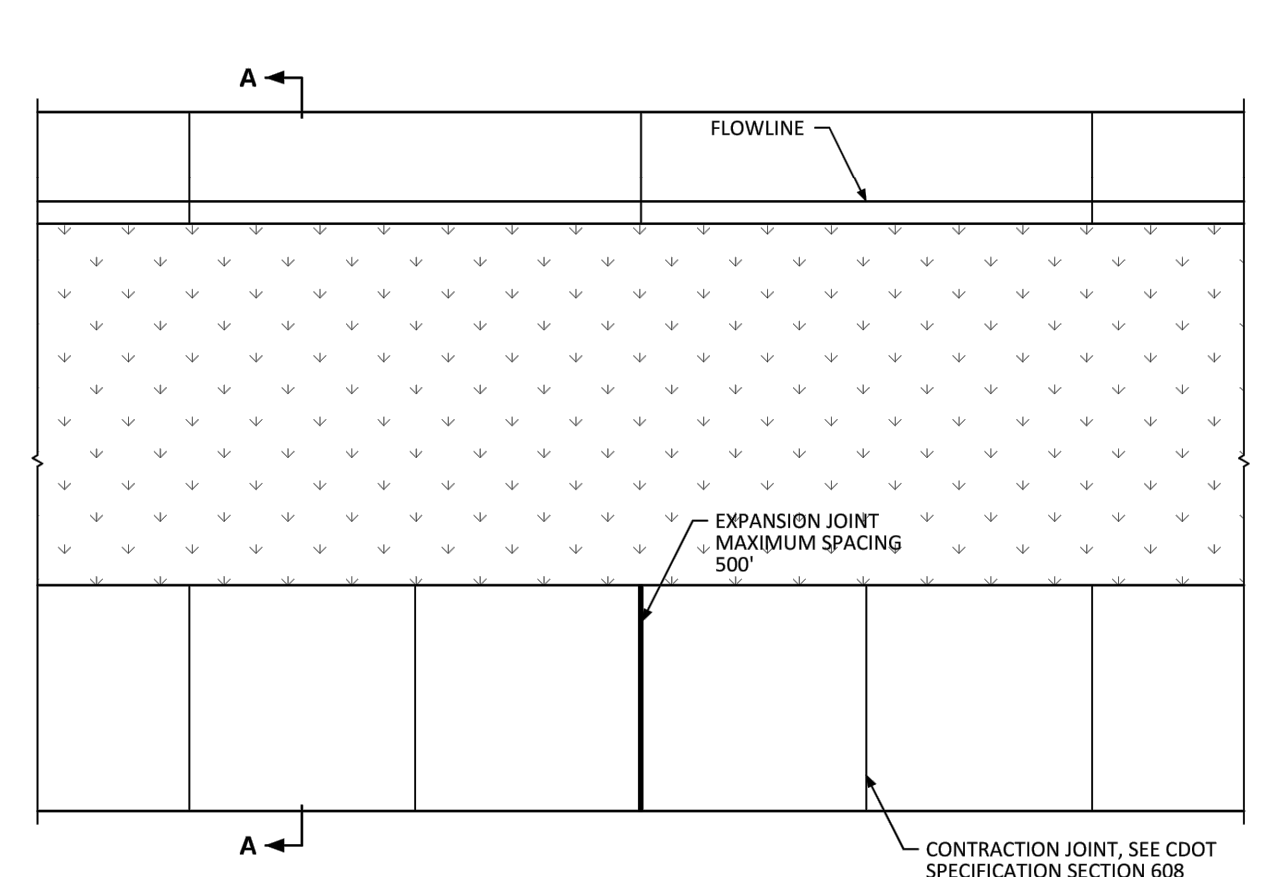
VERTICAL CURB AND GUTTER SECTION
(CDOT CURB AND GUTTER TYPE 2 (SECTION II-B))



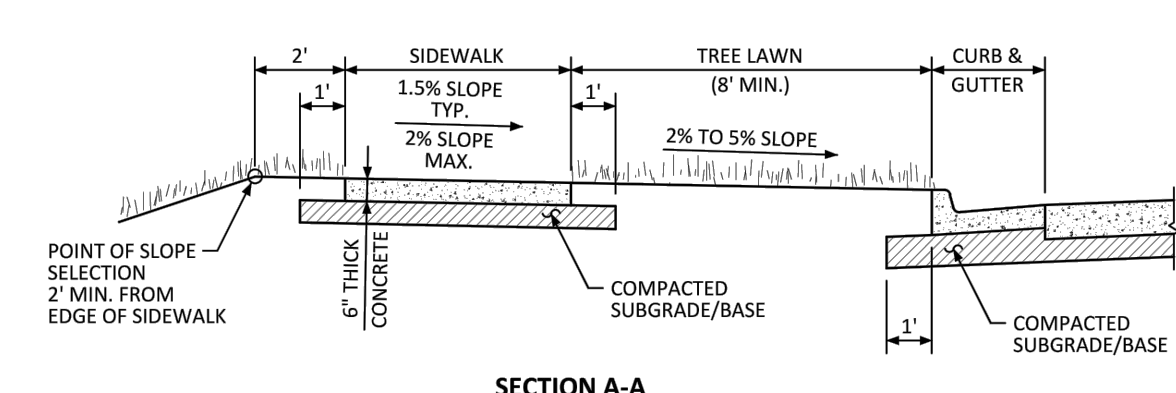
MOUNTABLE CURB AND GUTTER SECTION

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Curb, Gutter, and Sidewalk Sections Standard Detail
DATE AUGUST 2014
DETAIL 3
1 OF 1



JOINT SPACING



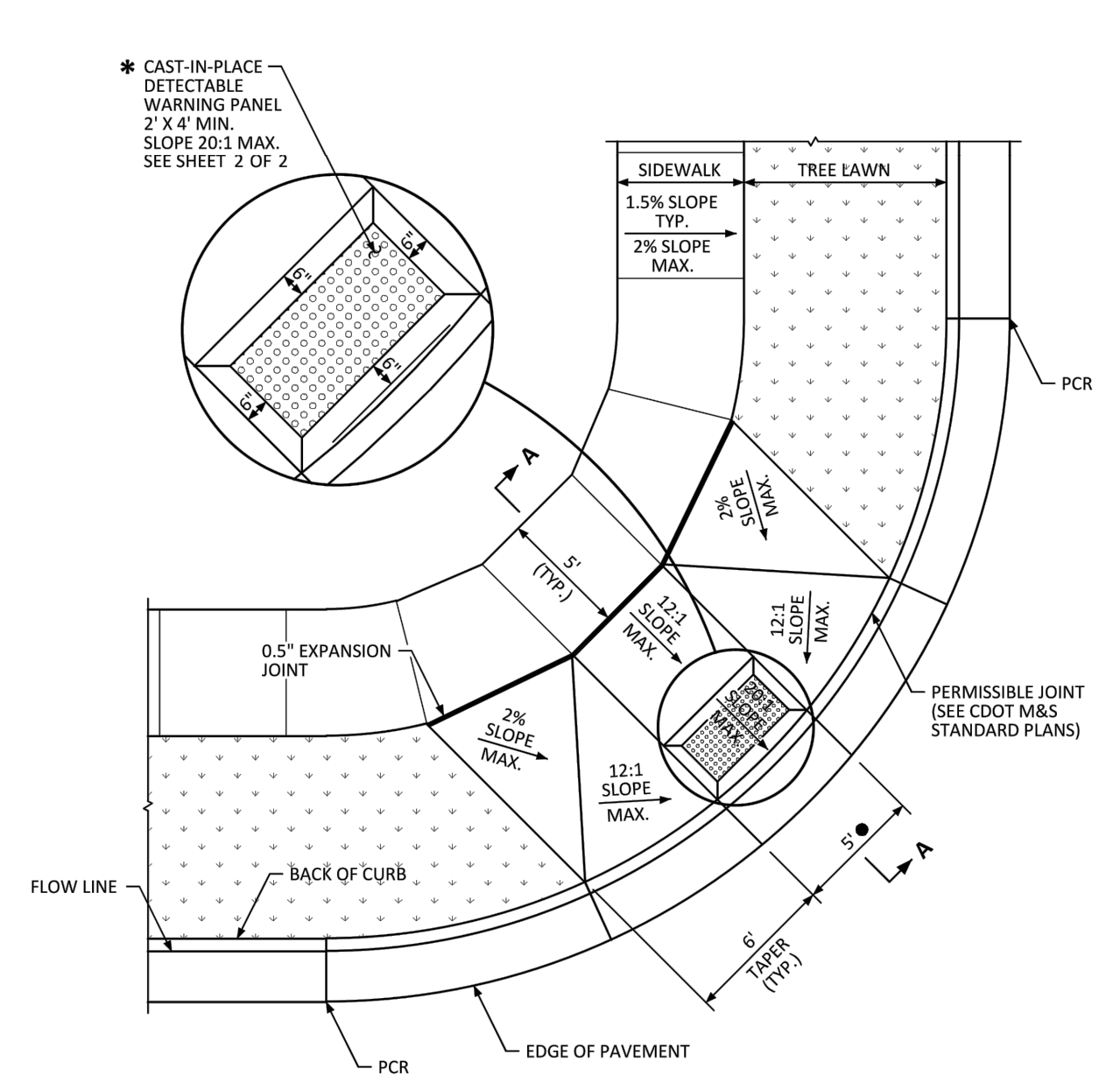
SECTION A-A

GENERAL NOTES

- 1. CONTRACTION JOINTS ON CONCRETE TRAILS SHALL BE SAWCUT.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

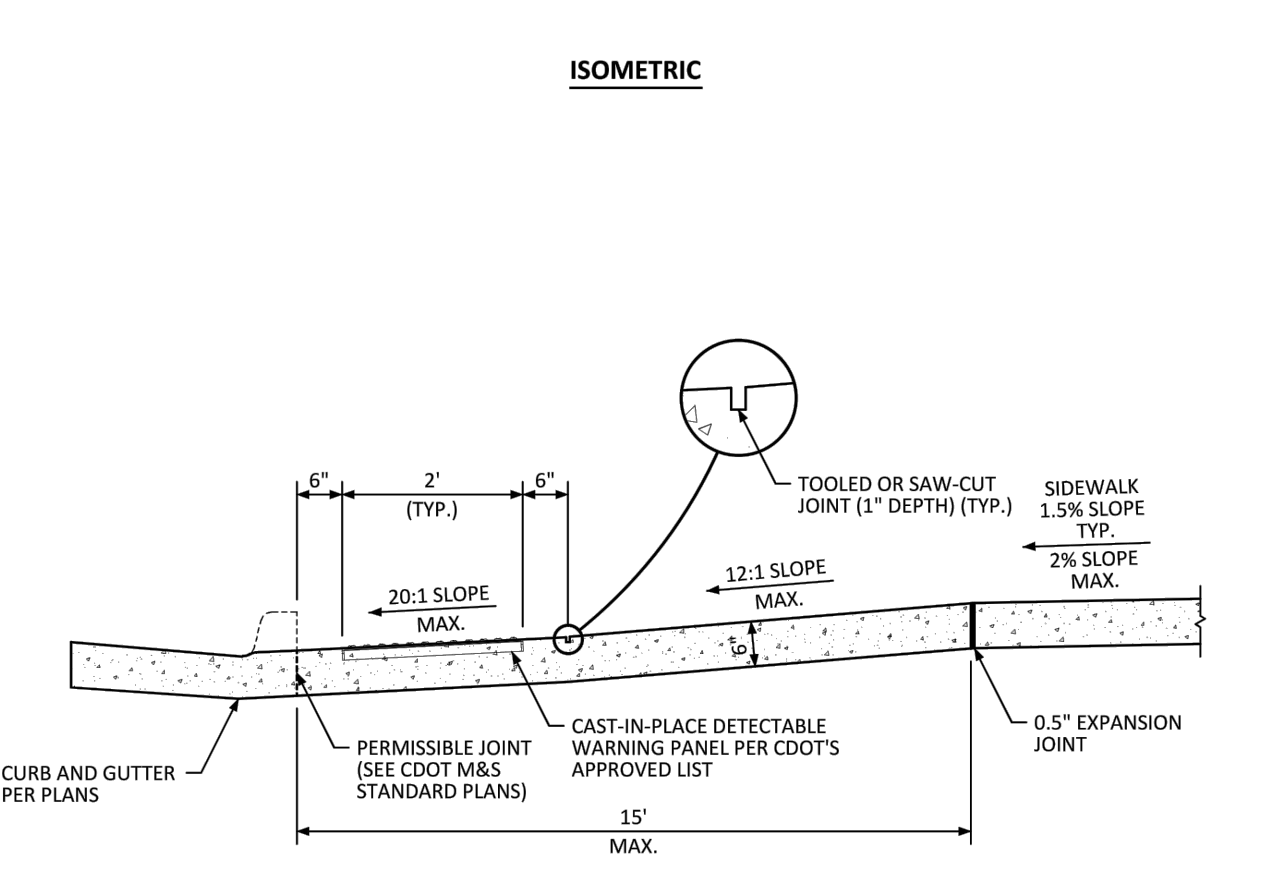
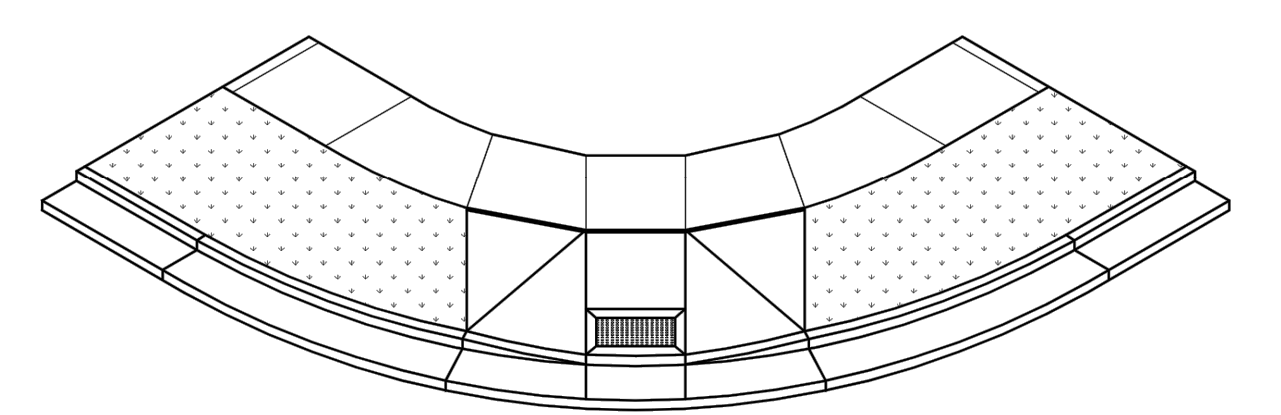
Detached Sidewalk Standard Detail
DATE AUGUST 2014
DETAIL 4
1 OF 2



- * DETECTABLE WARNINGS SHALL BE ONE OF THE PRODUCTS APPROVED FOR USE AS LISTED ON CDOT'S APPROVED LIST.
- FOR RESIDENTIAL COLLECTOR/COLLECTOR LAYOUT OR COLLECTOR/ARTERIAL LAYOUT, CURB RAMP SHALL BE 7' WIDE.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

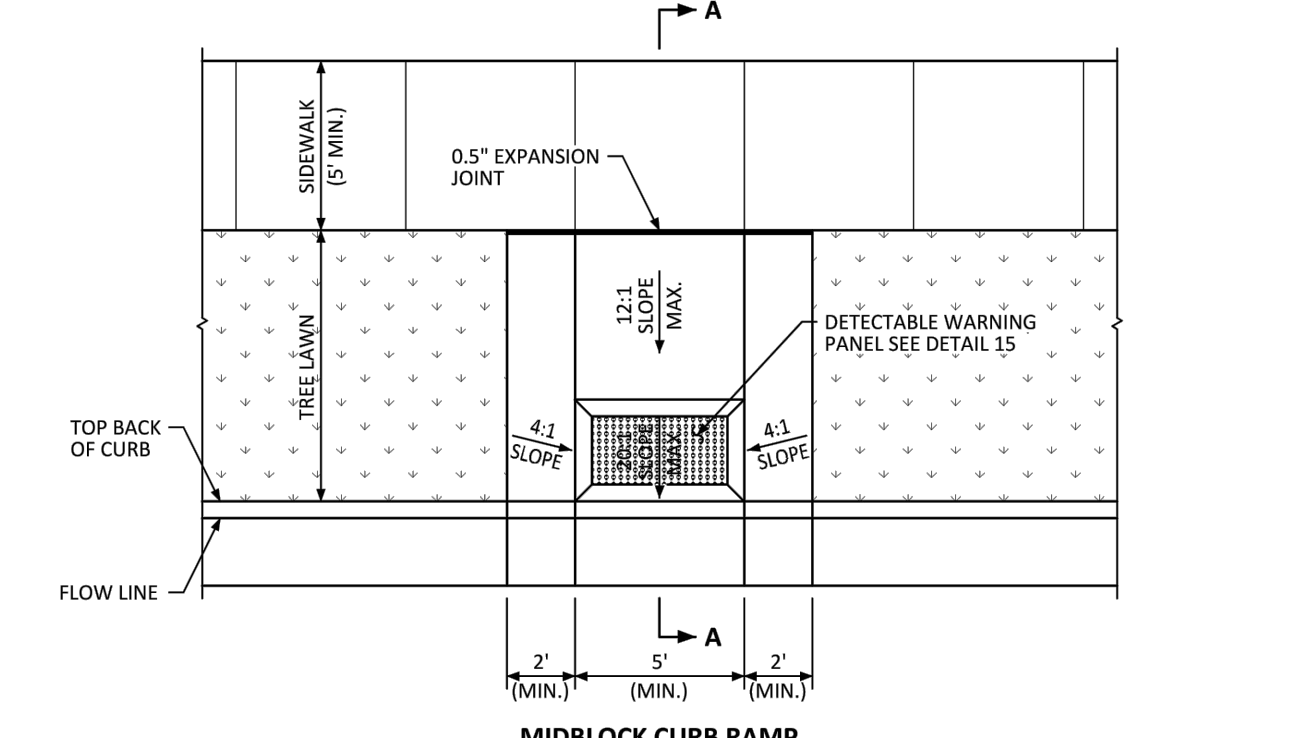
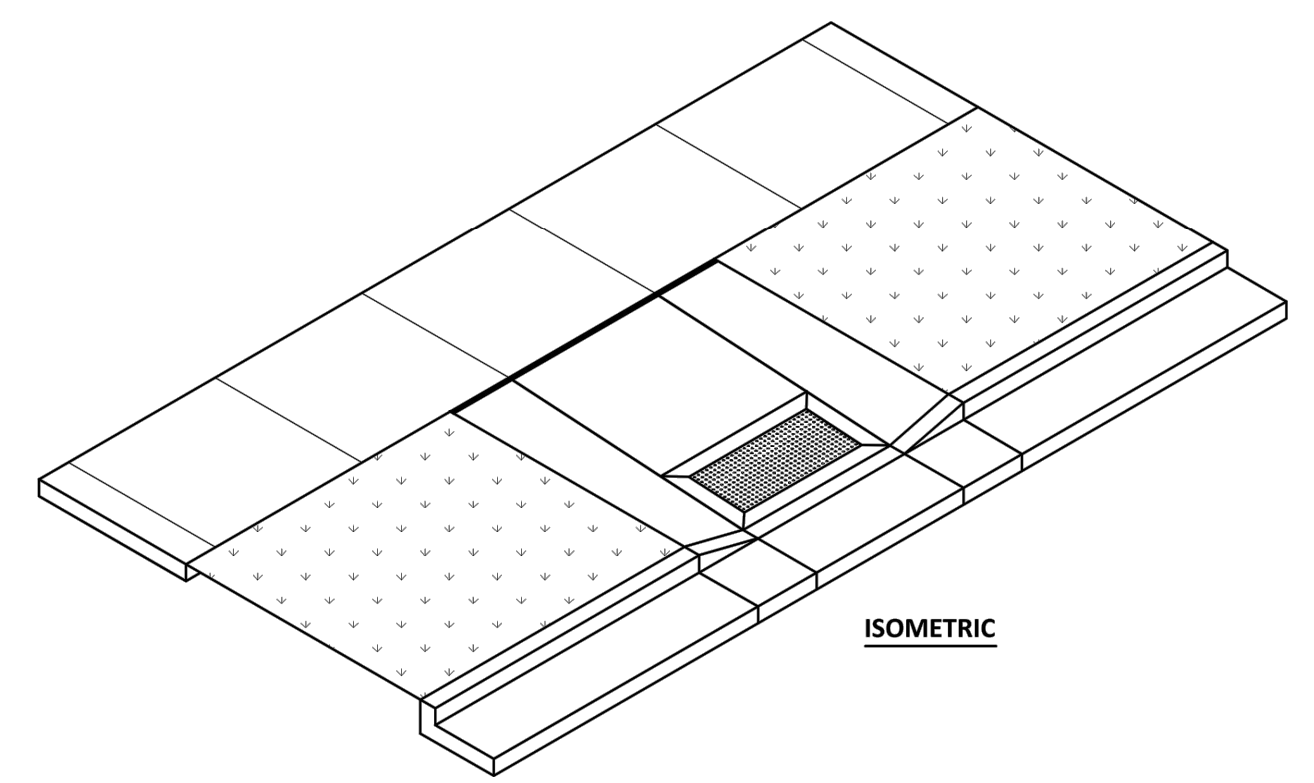
Diagonal Curb Ramp (Detached Sidewalk) Layout Standard Detail
DATE AUGUST 2014
DETAIL 15
1 OF 2



SECTION A-A

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

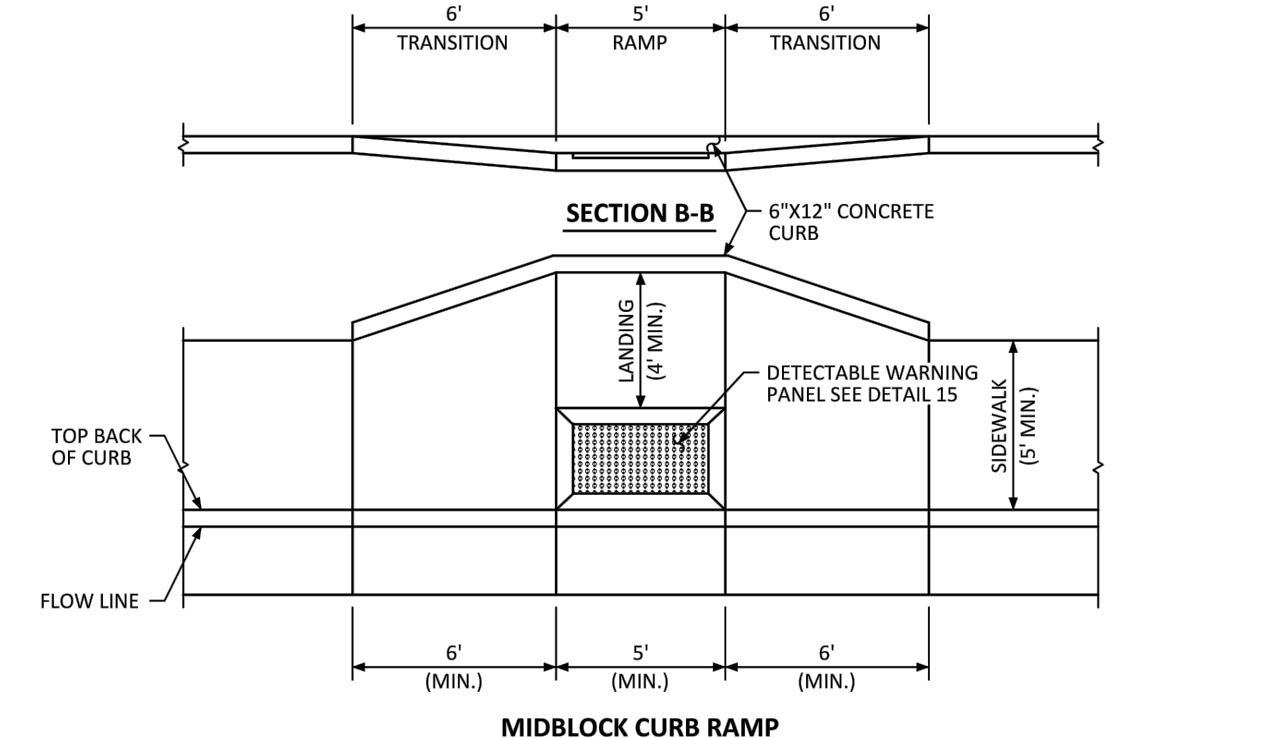
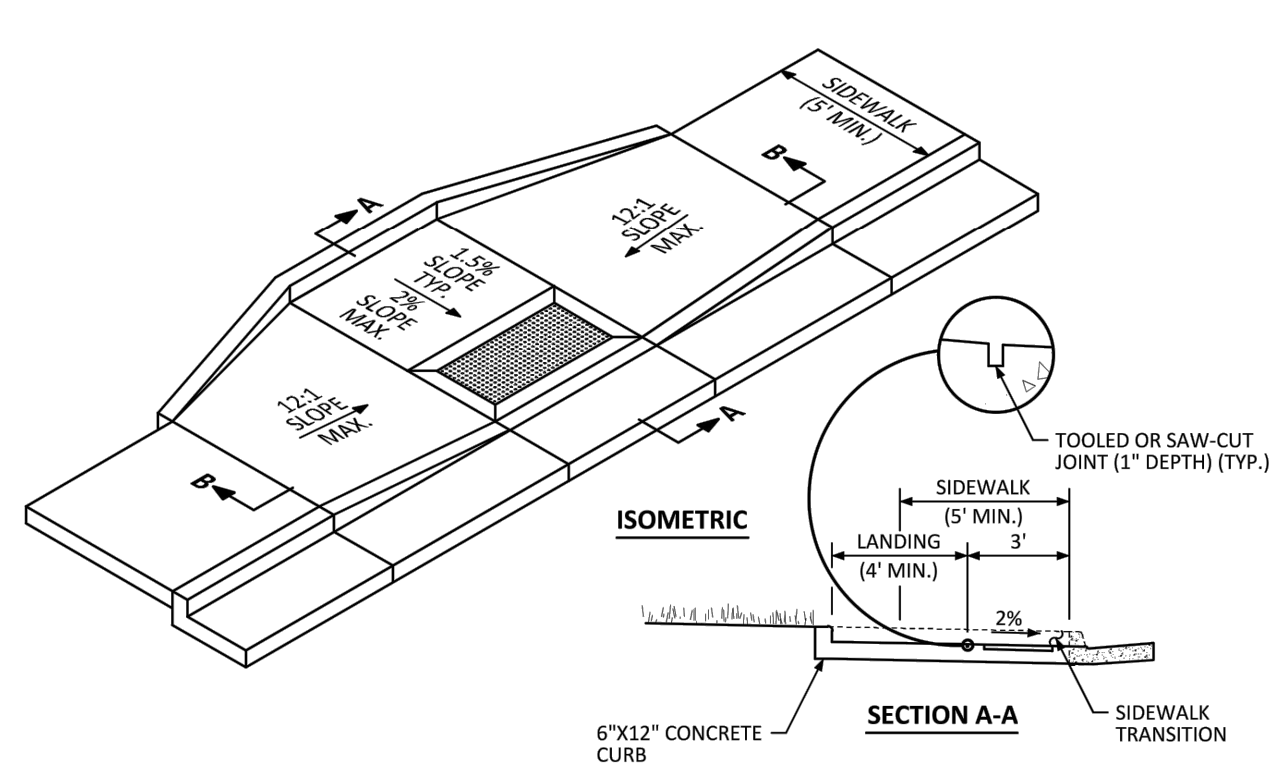
Diagonal Curb Ramp Layout Standard Detail
DATE AUGUST 2014
DETAIL 15
2 OF 2



MIDBLOCK CURB RAMP

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

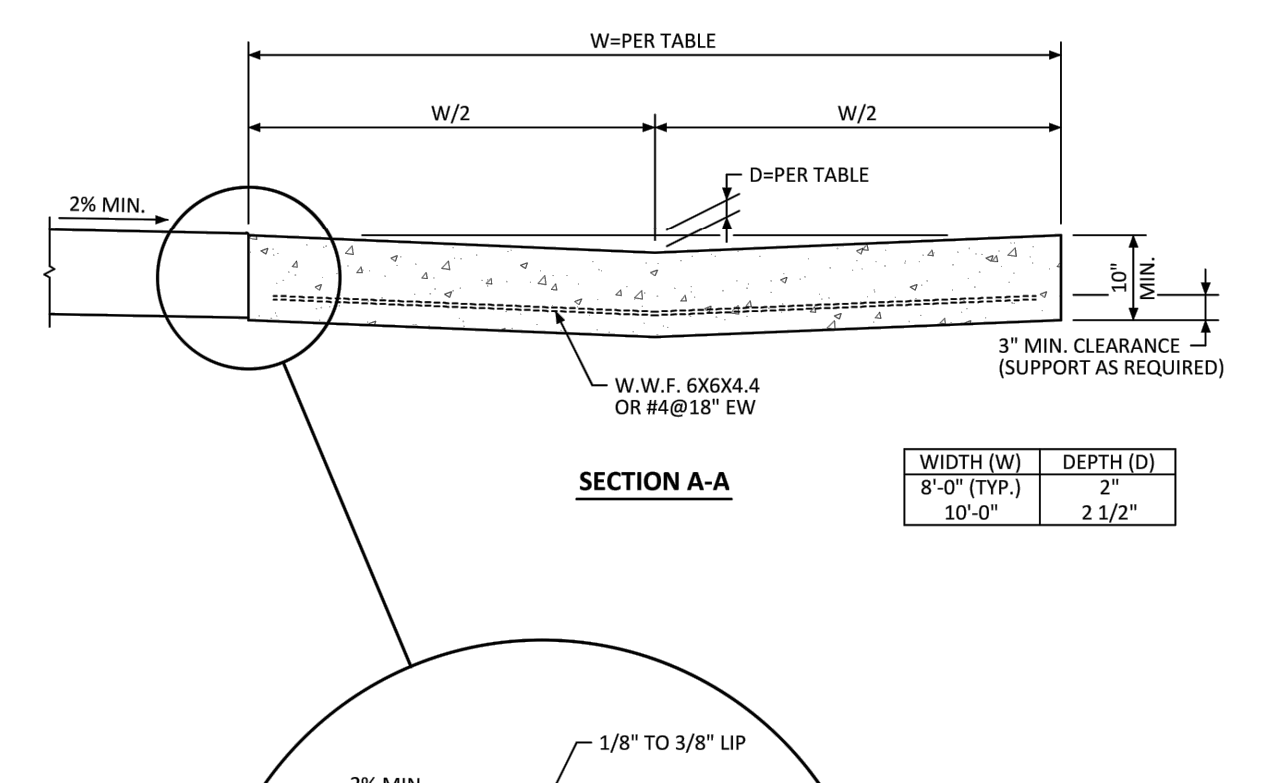
Midblock Curb Ramp Layout Standard Detail
DATE AUGUST 2014
DETAIL 17
1 OF 2



MIDBLOCK CURB RAMP

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Midblock Curb Ramp Layout Standard Detail
DATE AUGUST 2014
DETAIL 17
2 OF 2



SECTION A-A

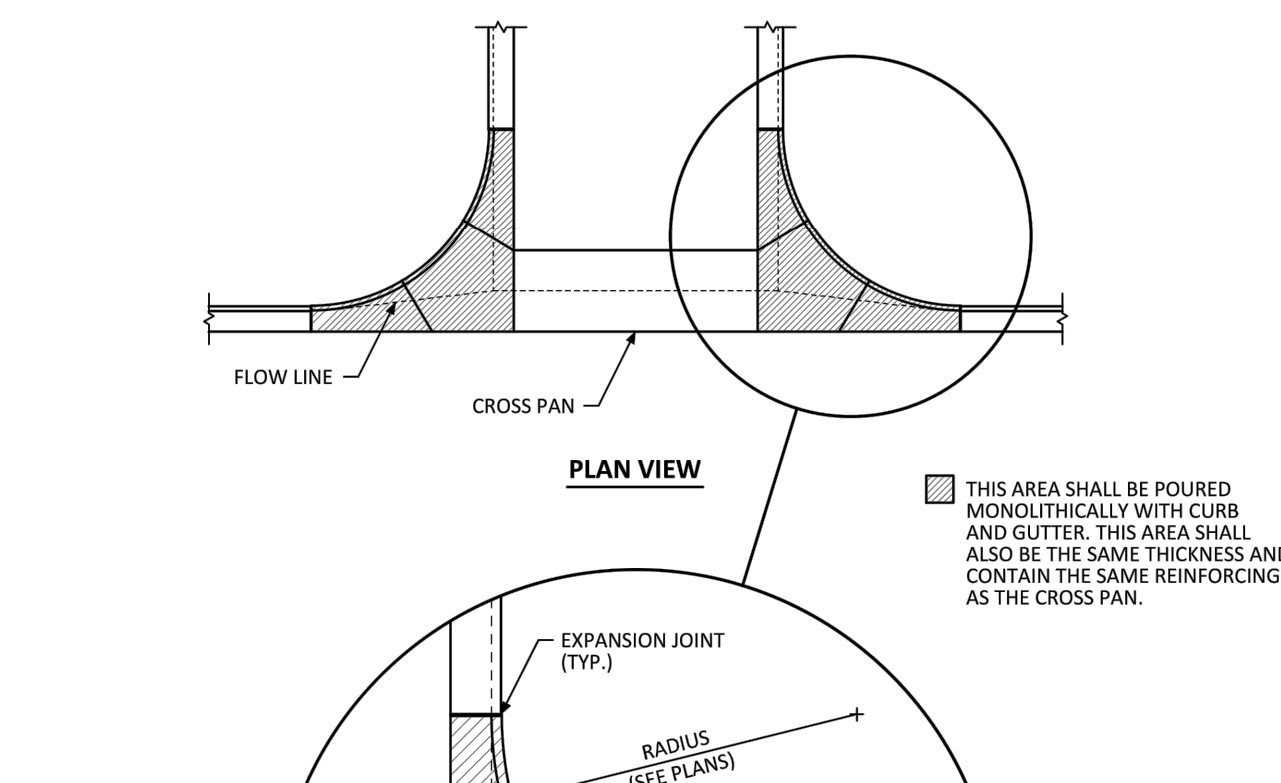
| WIDTH (W) | DEPTH (D) |
|--------------|-----------|
| 8'-0" (TYP.) | 2" |
| 10'-0" | 2 1/2" |

GENERAL NOTES

- 1. CONTRACTION JOINTS SHALL BE PROVIDED AT 10' MAXIMUM SPACING.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Cross Pan Layout Standard Detail
DATE AUGUST 2014
DETAIL 19
1 OF 1



PLAN VIEW

THIS AREA SHALL BE POURED MONOLITHICALLY WITH CURB AND GUTTER. THIS AREA SHALL ALSO BE THE SAME THICKNESS AND CONTAIN THE SAME REINFORCING AS THE CROSS PAN.

GENERAL NOTES

- 1. EXPANSION JOINTS SHALL BE SEALED IN ACCORDANCE WITH THE LATEST CDOT M&S STANDARD PLANS.
- 2. REINFORCING SHALL BE CONTINUOUS FROM CROSS PAN TO APRONS AND PLACED AS SHOWN IN STANDARD DETAIL 19.

NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

Intersection Cross Pan Layout Standard Detail
DATE AUGUST 2014
DETAIL 20
1 OF 1

Plot Date: 12/16/2015 5:28 PM. Draw Name: p:\c\projects\comountain03\ultimate_belford\dwg\plan\Drawings\Plan_S&T\Town\CLCPKC3\Street_Details.dwg. Updated By: etgallaghs

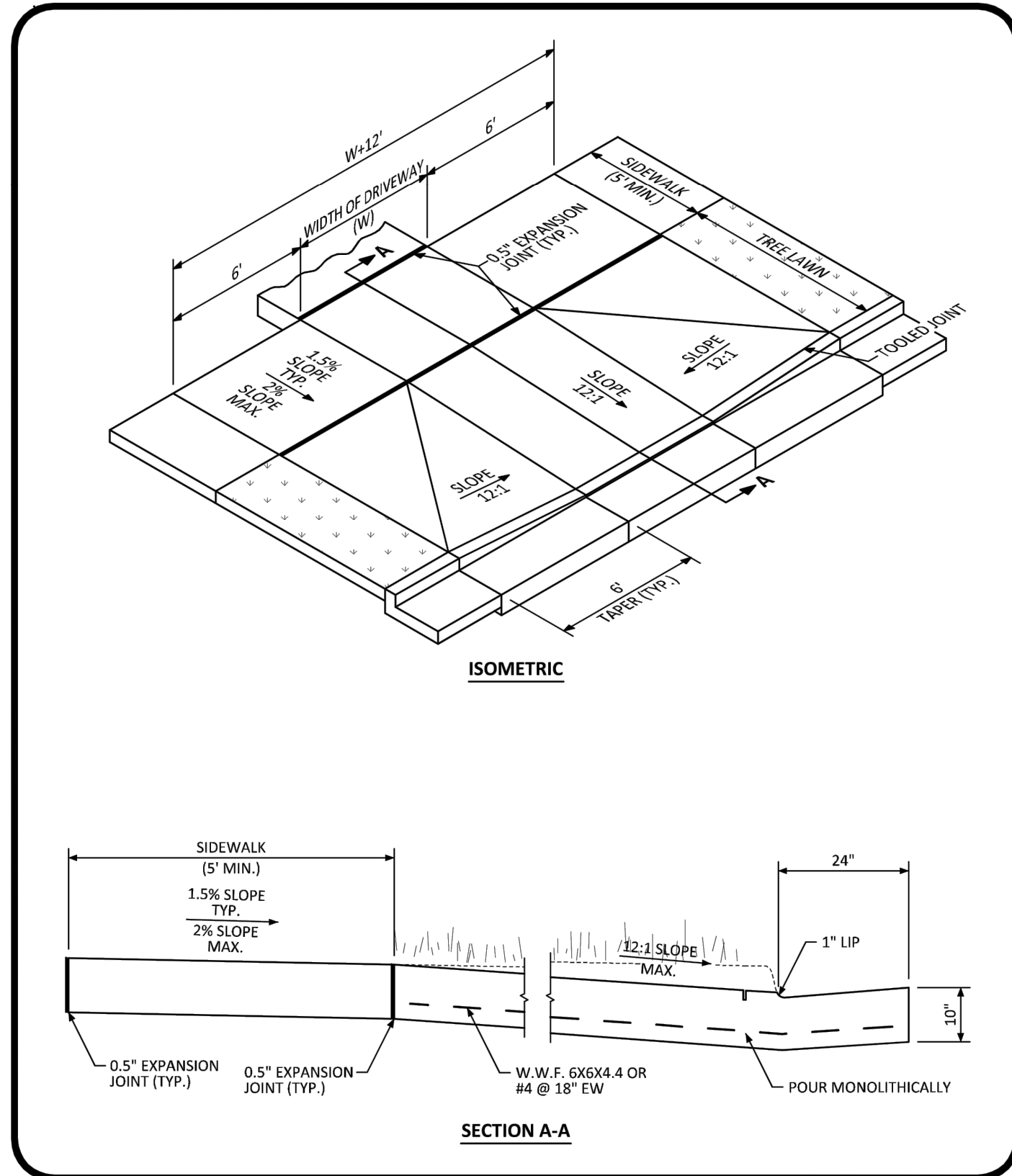
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COMPARK VILLAGE SOUTH - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STREET DETAILS

PROJ. MGR.: RLB
PROJ. ASSOC.: BRB
DRAWN BY: ETG
DATE: 12/2015

SHEET
28 OF **32**
CLCPKC3

PENDING APPROVAL

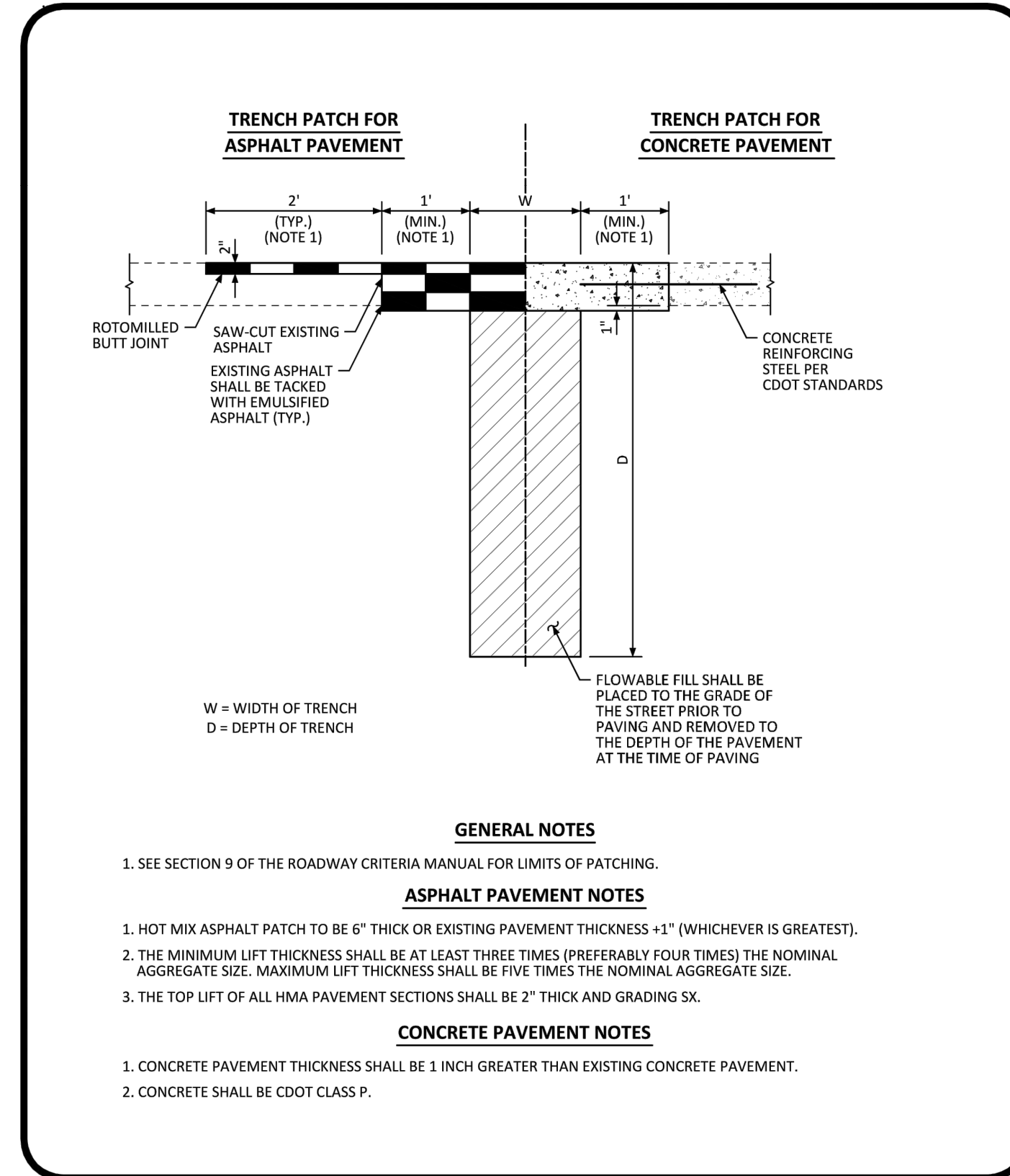


NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

COMMERCIAL DRIVEWAY WITH DETACHED SIDEWALK STANDARD DETAIL

DATE AUGUST 2014

DETAIL 21
2 OF 2

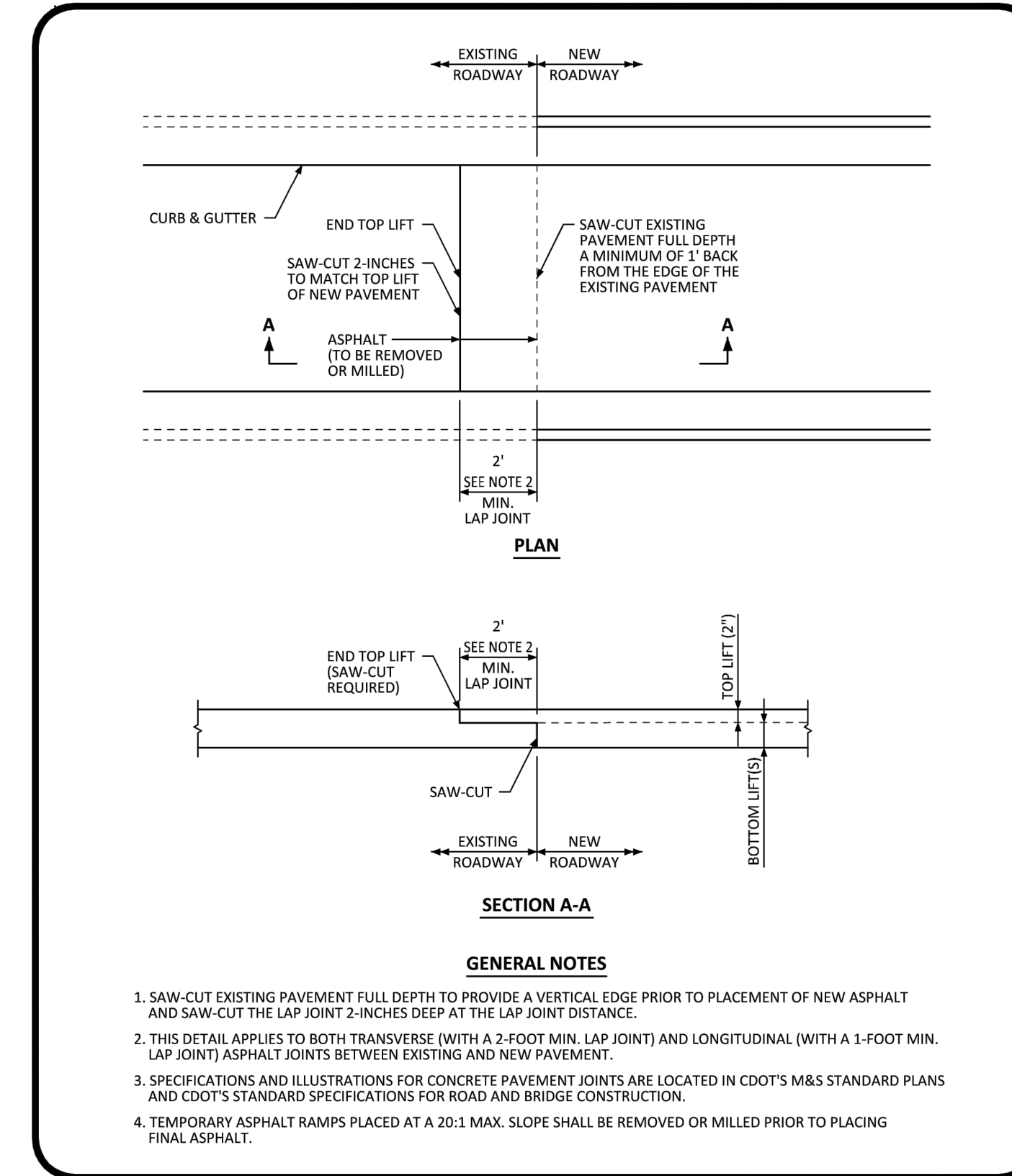


NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

MINIMUM STREET PATCH DETERMINATION STANDARD DETAIL

DATE AUGUST 2014

DETAIL 26
1 OF 1

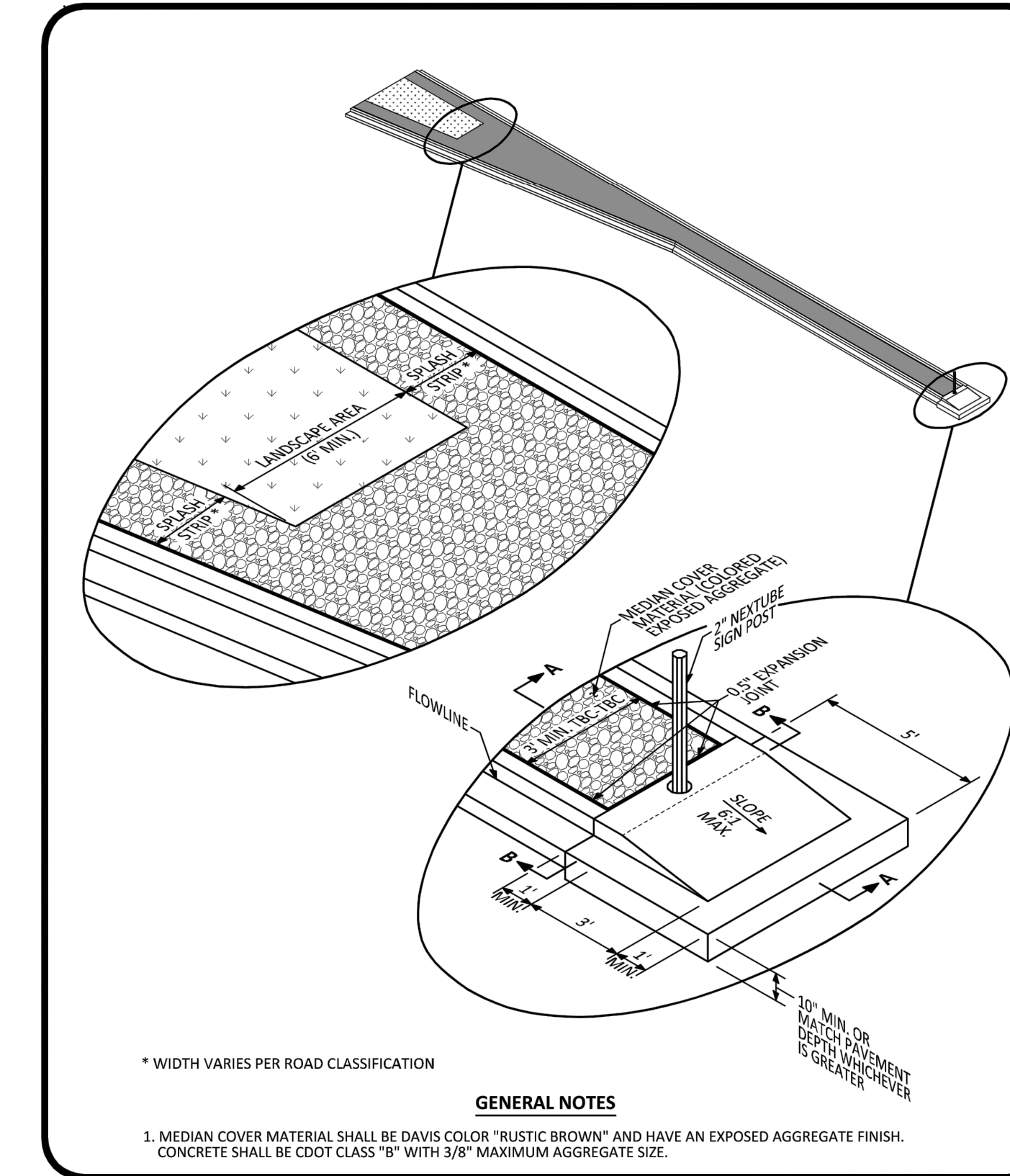


NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

ASPHALT CONNECTION BETWEEN EXISTING AND NEW PAVEMENT STANDARD DETAIL

DATE AUGUST 2014

DETAIL 27
1 OF 1

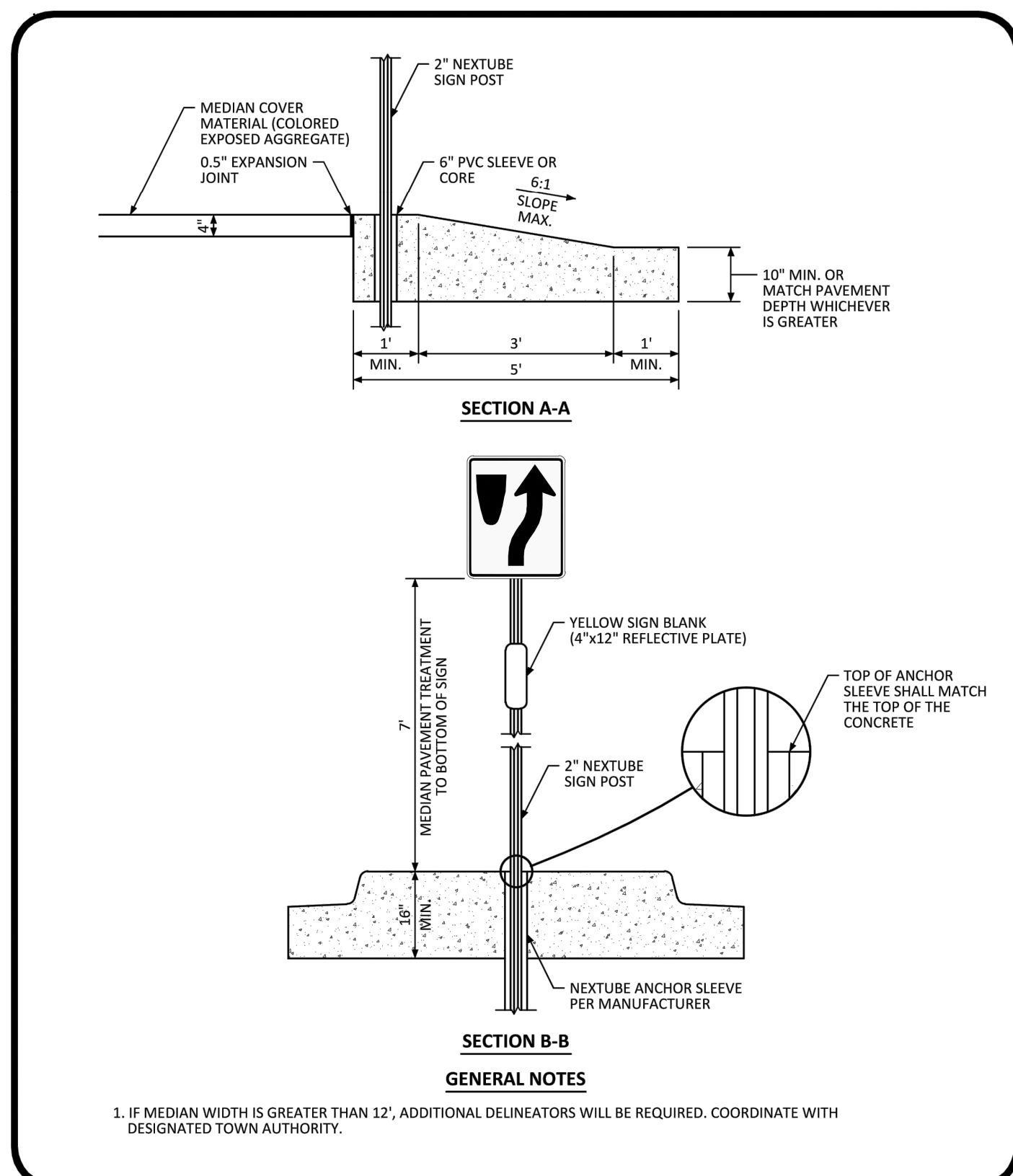


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MEDIAN BULL NOSE ISOMETRIC STANDARD DETAIL

DATE AUGUST 2014

DETAIL 28
1 OF 2

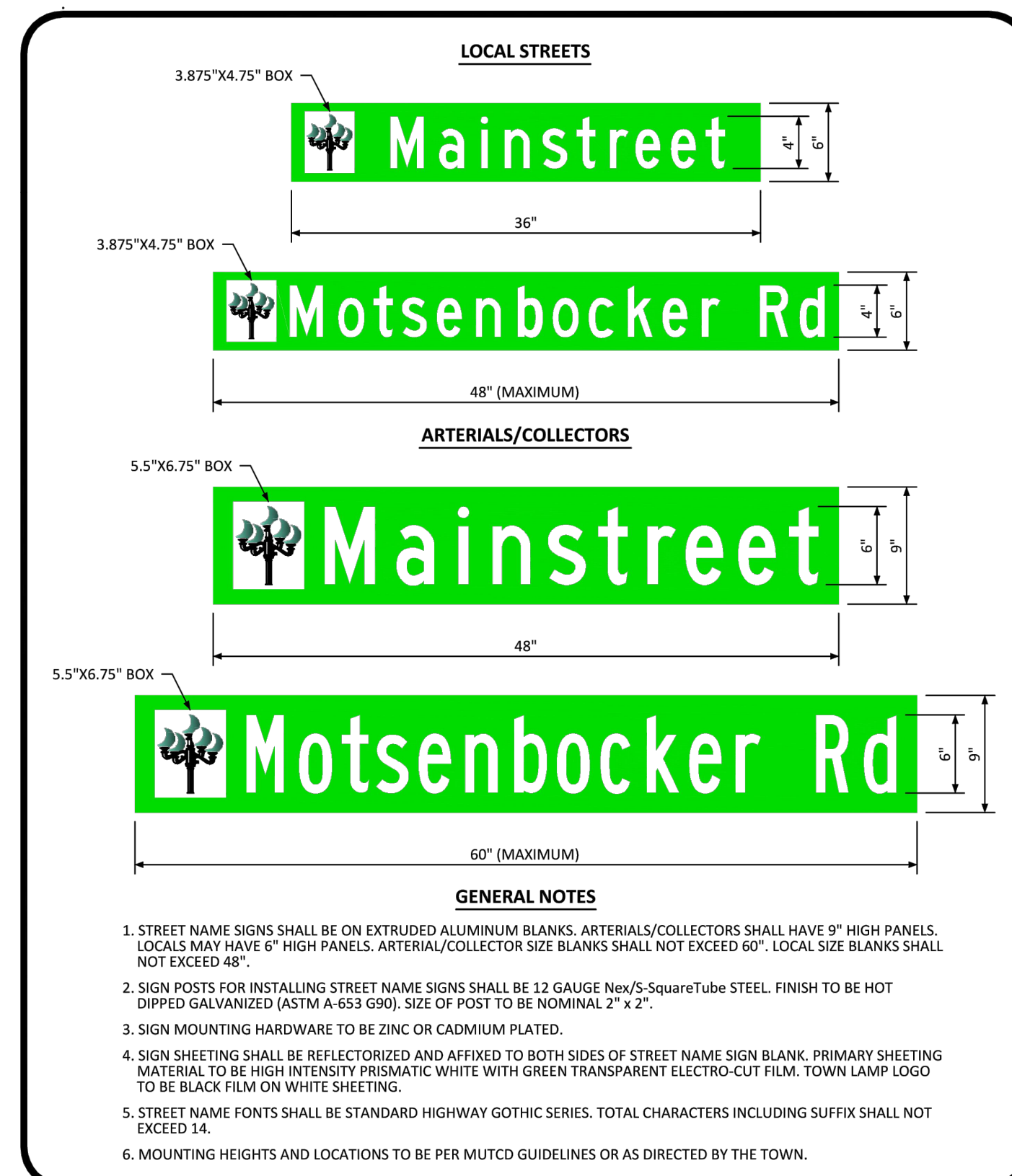


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MEDIAN BULL NOSE TYPICAL SECTIONS STANDARD DETAIL

DATE AUGUST 2014

DETAIL 28
2 OF 2



NO CHANGES ARE TO BE MADE TO THIS DRAWING WITHOUT WRITTEN PERMISSION OF THE TOWN OF PARKER.

GROUND MOUNTED STREET NAME PANELS

DATE AUGUST 2014

DETAIL 33
1 OF 1

Plotted: 12/16/2015 5:28 PM. Draw Name: p:\c\c\c\3\comout03\ultimate_belford_avenue\Drawings\Plan_Sign\Town\CLCPKC3_Street_Details.dwg. Updated By: etgallagher

| | | |
|-----------|---------|---------------|
| DATE | 11/2015 | 1ST SUBMITTAL |
| REVISIONS | | |
| DRAWN BY | | EG |

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TOWN OF PARKER, COLORADO

STREET DETAILS

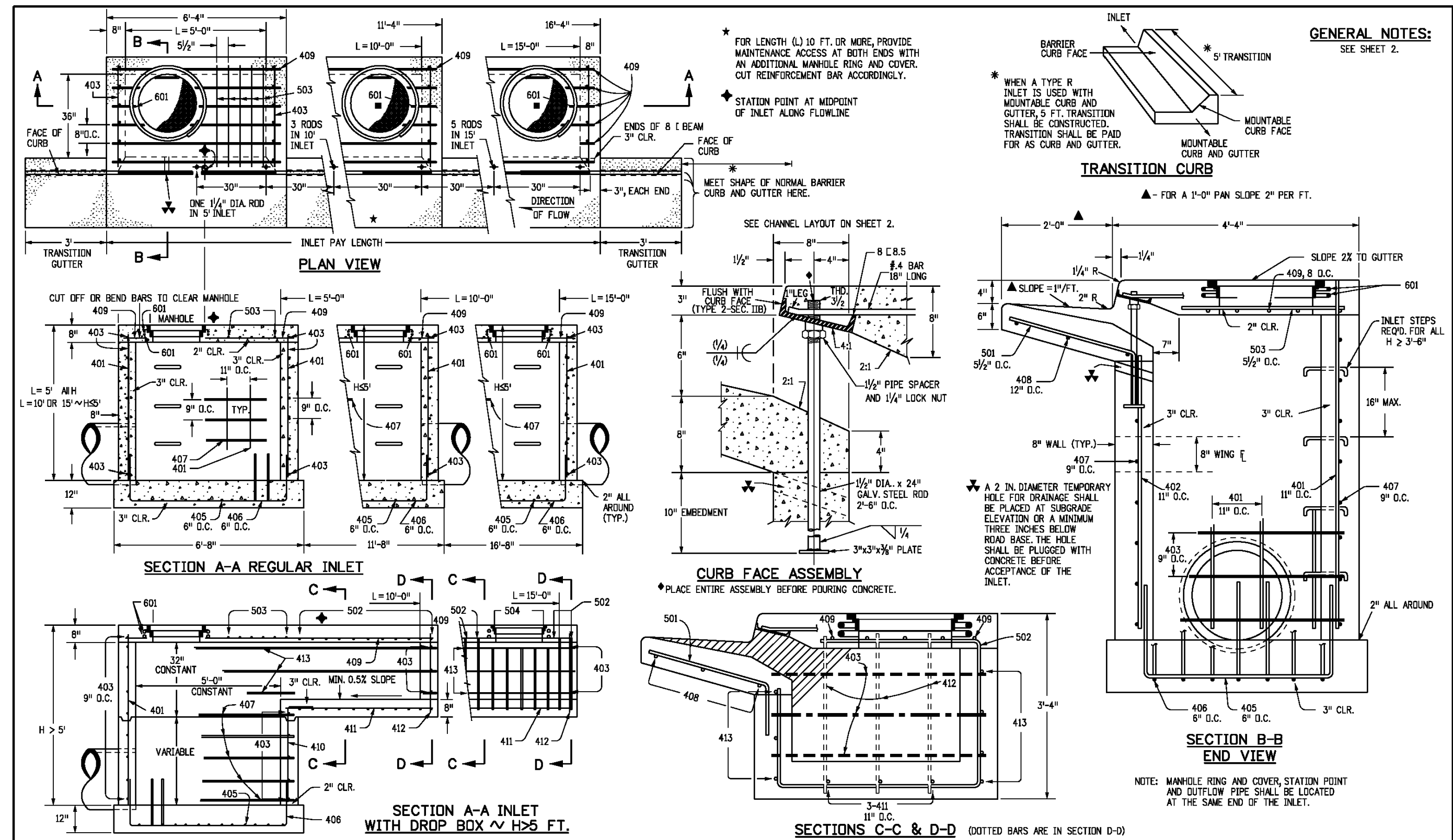
PROJ. MGR.: RLB
 PROJ. ASSOC.: BRB
 DRAWN BY: ETG
 DATE: 12/2015

SHEET

29 OF **32**

CLCPKC3

PENDING APPROVAL



| | | | |
|---|--|--|--|
| Computer File Information Creation Date: 07/04/12 Last Modification Date: 07/04/12 Full Path: \\colorado.ctb\projects\200622\colorado.ctb\business\designsupport\Drawing File Name: 60401202.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English | Sheet Revisions Date: _____ Comments: _____ | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820 Project Development Branch DD/LTA | STANDARD PLAN NO. CURB INLET TYPE R M-604-12 Sheet No. 1 of 2 |
|---|--|--|--|

| MARK | BAR # OR SIZE | D.C. SPACING | TYPE | ALL INLETS | | INLETS H ≤ 5 FT. | | INLETS H > 5 FT. | |
|------|---------------|--------------|------|------------|------------|------------------|------------|------------------|------------|
| | | | | L = 5 FT. | L = 10 FT. | L = 5 FT. | L = 10 FT. | L = 5 FT. | L = 10 FT. |
| 401 | 4 | 12" | II | 15 | 21 | 21 | 26 | 11 | 11 |
| 402 | 4 | 12" | III | 7 | 13 | 13 | 18 | 7 | 7 |
| 403 | 4 | 12" | IV | 4 | 7 | 7 | 10 | 4 | 4 |
| 405 | 4 | 8" | VI | 11 | 17 | 17 | 21 | 11 | 11 |
| 406 | 4 | 8" | VII | 5 | 9 | 9 | 12 | 5 | 5 |
| 407 | 4 | 8" | VIII | 3 | 5 | 5 | 7 | 3 | 3 |
| 408 | 4 | 8" | IX | 3 | 5 | 5 | 7 | 3 | 3 |
| 409 | 4 | 8" | X | 3 | 5 | 5 | 7 | 3 | 3 |
| 410 | 4 | 8" | XI | 3 | 5 | 5 | 7 | 3 | 3 |
| 411 | 4 | 8" | XII | 3 | 5 | 5 | 7 | 3 | 3 |
| 412 | 4 | 8" | XIII | 3 | 5 | 5 | 7 | 3 | 3 |
| 413 | 4 | 8" | XIV | 3 | 5 | 5 | 7 | 3 | 3 |
| 501 | 5 | 3/4" | IV | 11 | 17 | 17 | 21 | 11 | 11 |
| 502 | 5 | 3/4" | V | 5 | 9 | 9 | 12 | 5 | 5 |
| 503 | 5 | 3/4" | VI | 3 | 5 | 5 | 7 | 3 | 3 |
| 504 | 5 | 3/4" | VII | 3 | 5 | 5 | 7 | 3 | 3 |
| 601 | 6 | 2 1/2" | V | 2 | 3 | 3 | 4 | 2 | 2 |
| 602 | 6 | 2 1/2" | VI | 1 | 2 | 2 | 3 | 1 | 1 |
| 603 | 6 | 2 1/2" | VII | 1 | 2 | 2 | 3 | 1 | 1 |

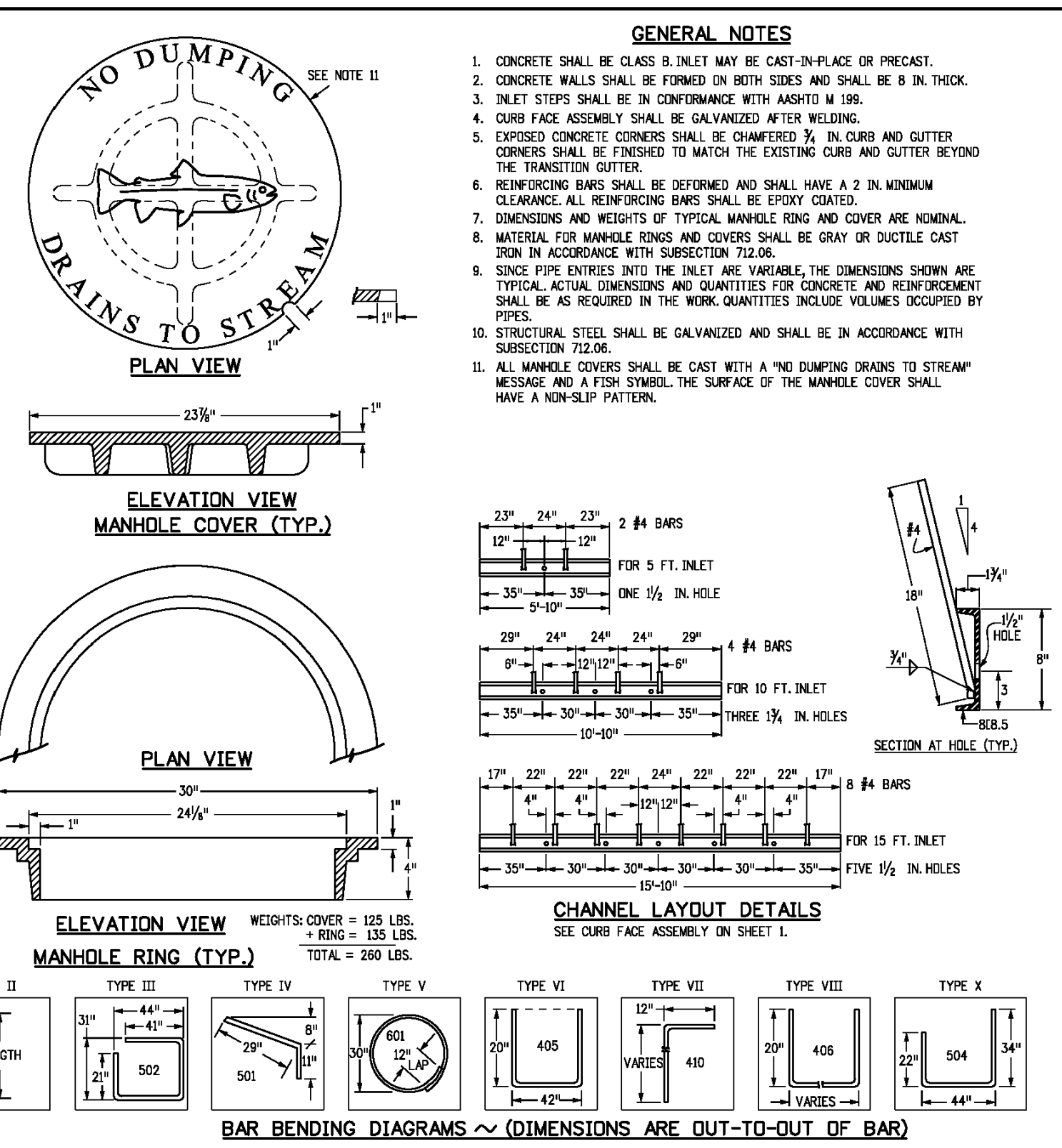
TABLE ONE ~ BAR LIST FOR CURB INLETS, TYPE "R"

| MARK | LENGTH | NO. REQ'D. | | L = 5 FT. | L = 10 FT. | L = 15 FT. |
|------|--------|------------|----------|-----------|------------|------------|
| | | REGULAR | DROP BOX | | | |
| 401 | 2'-0" | 10 | 7 | 3.2 | 285 | 5.3 |
| 402 | 2'-0" | 10 | 7 | 3.4 | 305 | 5.7 |
| 403 | 2'-0" | 12 | 9 | 3.7 | 328 | 6.0 |
| 404 | 2'-0" | 12 | 9 | 3.9 | 334 | 6.4 |
| 405 | 2'-0" | 14 | 11 | 4.1 | 354 | 6.7 |
| 406 | 2'-0" | 16 | 13 | 4.4 | 375 | 7.0 |
| 407 | 2'-0" | 18 | 15 | 4.6 | 392 | 7.2 |
| 408 | 2'-0" | 18 | 15 | 4.8 | 402 | 7.4 |
| 409 | 2'-0" | 20 | 17 | 5.0 | 423 | 7.6 |
| 410 | 2'-0" | 20 | 17 | 5.2 | 430 | 7.8 |
| 411 | 2'-0" | 22 | 19 | 5.5 | 451 | 8.1 |
| 412 | 2'-0" | 22 | 19 | 5.7 | 471 | 8.3 |
| 413 | 2'-0" | 24 | 21 | 6.0 | 479 | 8.5 |
| 414 | 2'-0" | 24 | 21 | 6.2 | 489 | 8.7 |
| 415 | 2'-0" | 26 | 23 | 6.5 | 511 | 9.0 |
| 416 | 2'-0" | 26 | 23 | 6.7 | 527 | 9.2 |
| 417 | 2'-0" | 28 | 25 | 7.0 | 550 | 9.5 |
| 418 | 2'-0" | 28 | 25 | 7.2 | 567 | 9.7 |
| 419 | 2'-0" | 30 | 27 | 7.5 | 591 | 10.0 |
| 420 | 2'-0" | 30 | 27 | 7.7 | 608 | 10.2 |

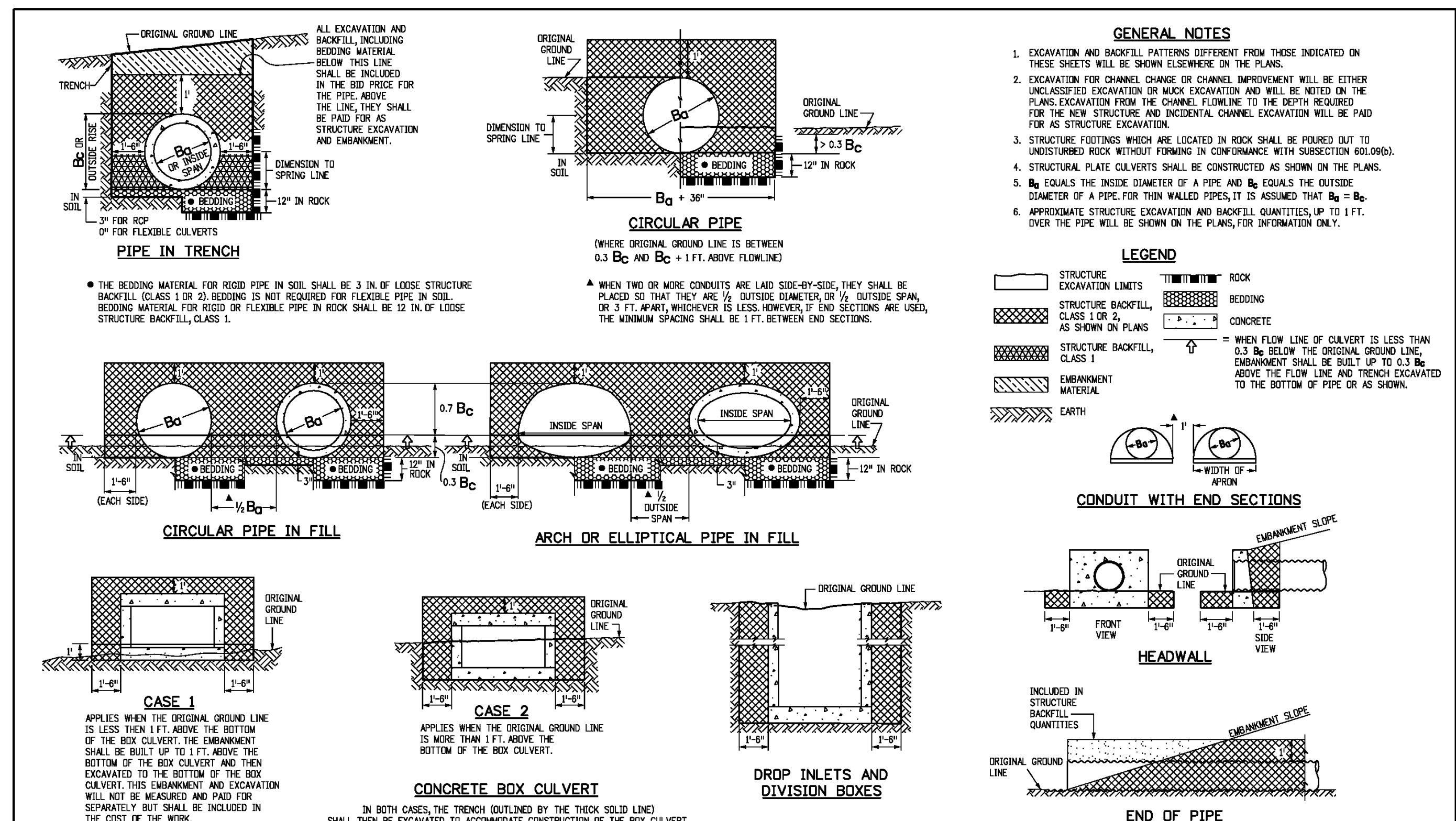
TABLE TWO ~ BARS AND QUANTITIES VARIABLE WITH "H"

| MARK | LENGTH | NO. REQ'D. | | L = 5 FT. | L = 10 FT. | L = 15 FT. |
|------|--------|------------|----------|-----------|------------|------------|
| | | REGULAR | DROP BOX | | | |
| 401 | 2'-0" | 10 | 7 | 3.2 | 285 | 5.3 |
| 402 | 2'-0" | 10 | 7 | 3.4 | 305 | 5.7 |
| 403 | 2'-0" | 12 | 9 | 3.7 | 328 | 6.0 |
| 404 | 2'-0" | 12 | 9 | 3.9 | 334 | 6.4 |
| 405 | 2'-0" | 14 | 11 | 4.1 | 354 | 6.7 |
| 406 | 2'-0" | 16 | 13 | 4.4 | 375 | 7.0 |
| 407 | 2'-0" | 18 | 15 | 4.6 | 392 | 7.2 |
| 408 | 2'-0" | 18 | 15 | 4.8 | 402 | 7.4 |
| 409 | 2'-0" | 20 | 17 | 5.0 | 423 | 7.6 |
| 410 | 2'-0" | 20 | 17 | 5.2 | 430 | 7.8 |
| 411 | 2'-0" | 22 | 19 | 5.5 | 451 | 8.1 |
| 412 | 2'-0" | 22 | 19 | 5.7 | 471 | 8.3 |
| 413 | 2'-0" | 24 | 21 | 6.0 | 479 | 8.5 |
| 414 | 2'-0" | 24 | 21 | 6.2 | 489 | 8.7 |
| 415 | 2'-0" | 26 | 23 | 6.5 | 511 | 9.0 |
| 416 | 2'-0" | 26 | 23 | 6.7 | 527 | 9.2 |
| 417 | 2'-0" | 28 | 25 | 7.0 | 550 | 9.5 |
| 418 | 2'-0" | 28 | 25 | 7.2 | 567 | 9.7 |
| 419 | 2'-0" | 30 | 27 | 7.5 | 591 | 10.0 |
| 420 | 2'-0" | 30 | 27 | 7.7 | 608 | 10.2 |

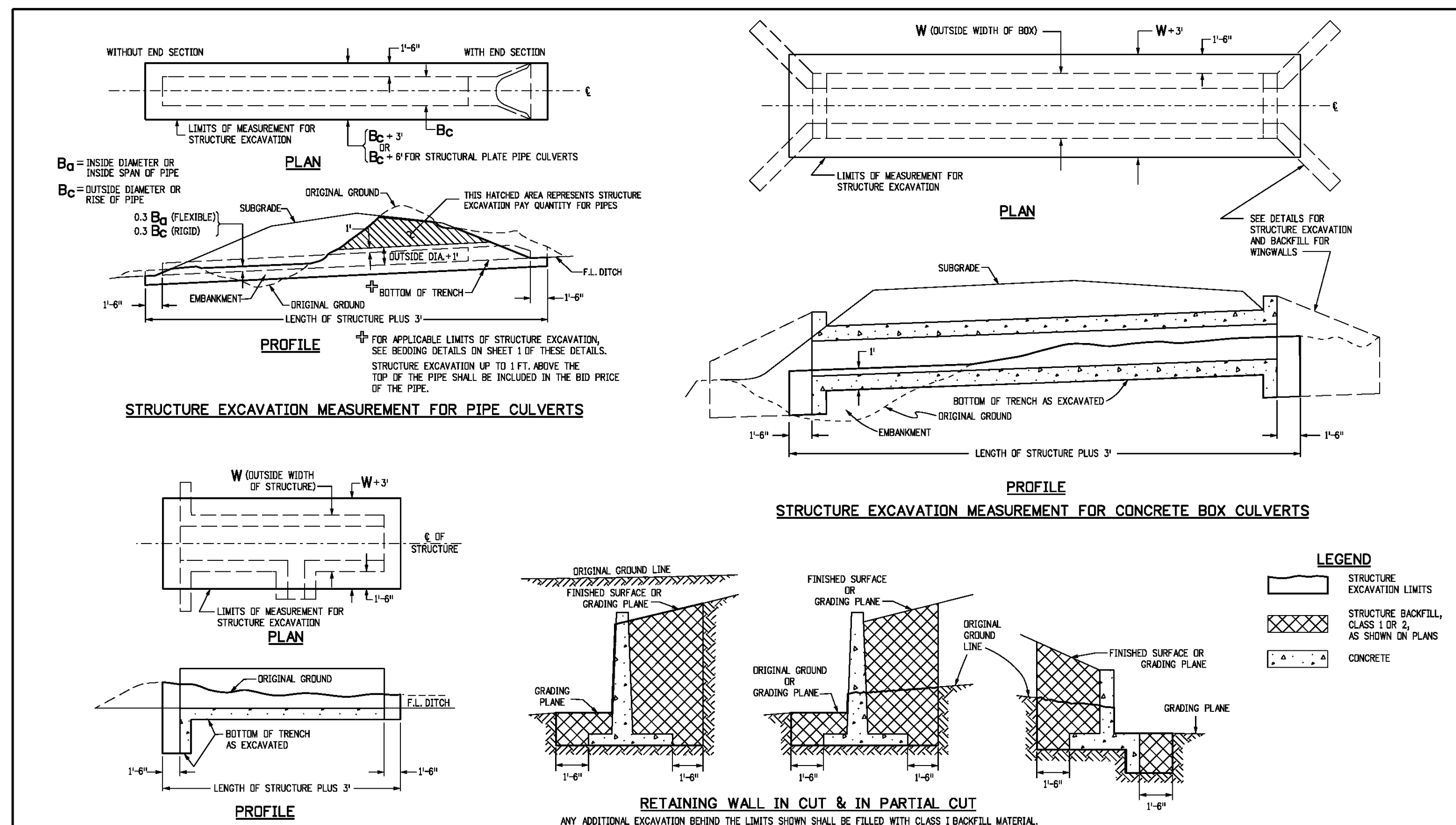
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| Computer File Information Creation Date: 07/04/12 Last Modification Date: 07/04/12 Full Path: \\colorado.ctb\projects\200622\colorado.ctb\business\designsupport\Drawing File Name: 60401202.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English | Sheet Revisions Date: _____ Comments: _____ | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820 Project Development Branch DD/LTA | STANDARD PLAN NO. CURB INLET TYPE R M-604-12 Sheet No. 2 of 2 |
|---|--|--|--|



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| Computer File Information Creation Date: 07/04/12 Last Modification Date: 07/04/12 Full Path: \\colorado.ctb\projects\200622\colorado.ctb\business\designsupport\Drawing File Name: 206010102.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English | Sheet Revisions Date: _____ Comments: _____ | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820 Project Development Branch DD/LTA | STANDARD PLAN NO. EXCAVATION AND BACKFILL FOR STRUCTURES M-206-1 Sheet No. 1 of 2 |
|--|--|--|--|



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| Computer File Information Creation Date: 07/04/12 Last Modification Date: 07/04/12 Full Path: \\colorado.ctb\projects\200622\colorado.ctb\business\designsupport\Drawing File Name: 206010102.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English | Sheet Revisions Date: _____ Comments: _____ | Colorado Department of Transportation 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820 Project Development Branch DD/LTA | STANDARD PLAN NO. EXCAVATION AND BACKFILL FOR STRUCTURES M-206-1 Sheet No. 2 of 2 |
|--|--|--|--|



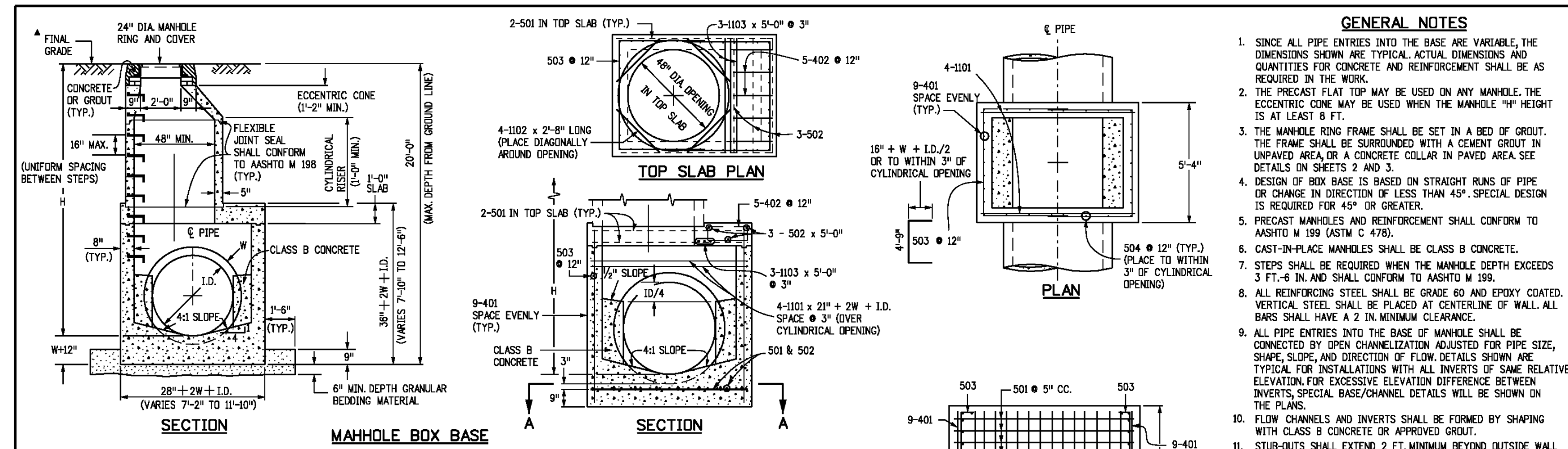
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TOWN OF PARKER, COLORADO
STORM DETAILS

PROJ. MGR.: RLB
 PROJ. ASSOC.: BRB
 DRAWN BY: ETG
 DATE: 12/2015

SHEET
30 OF 32
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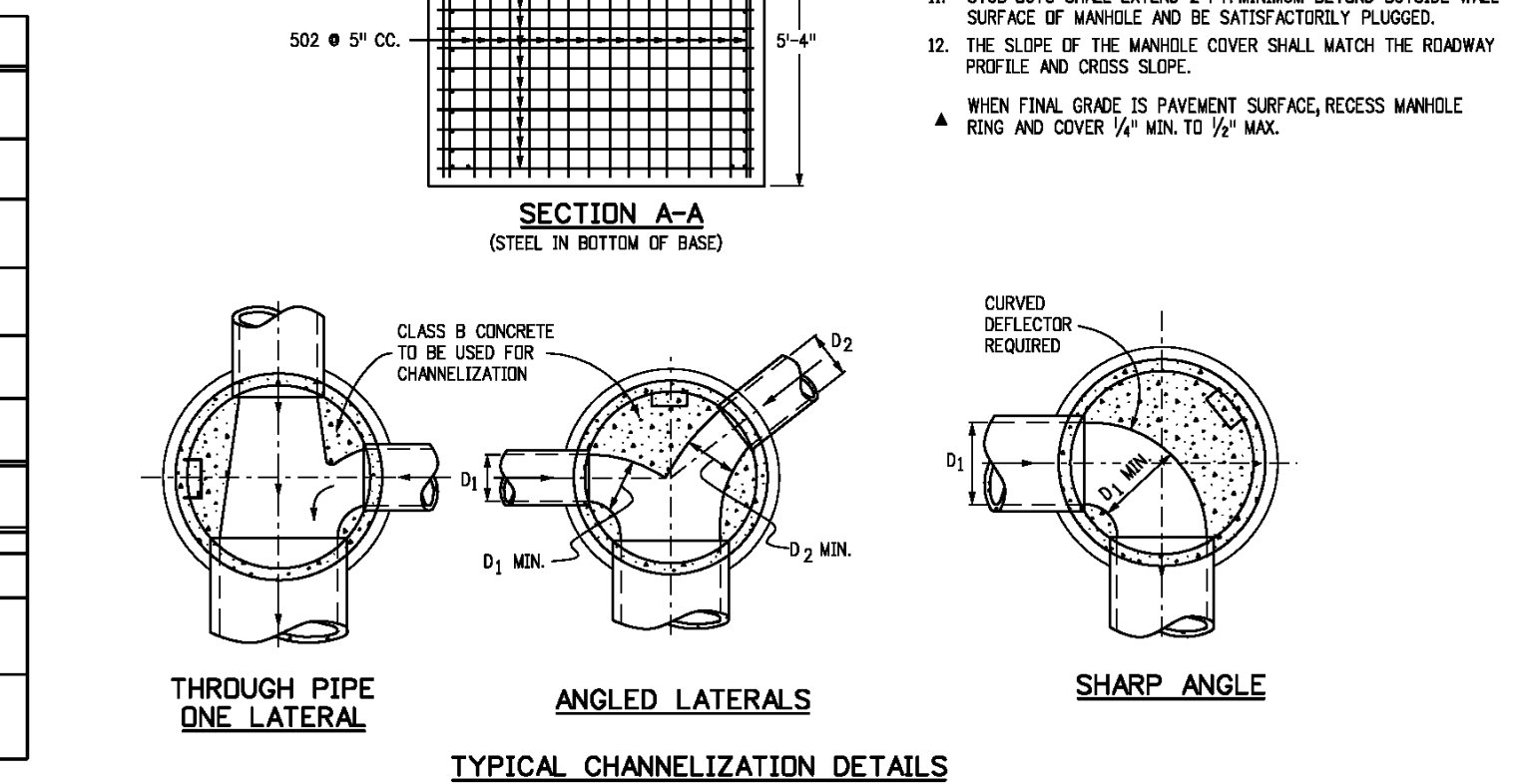
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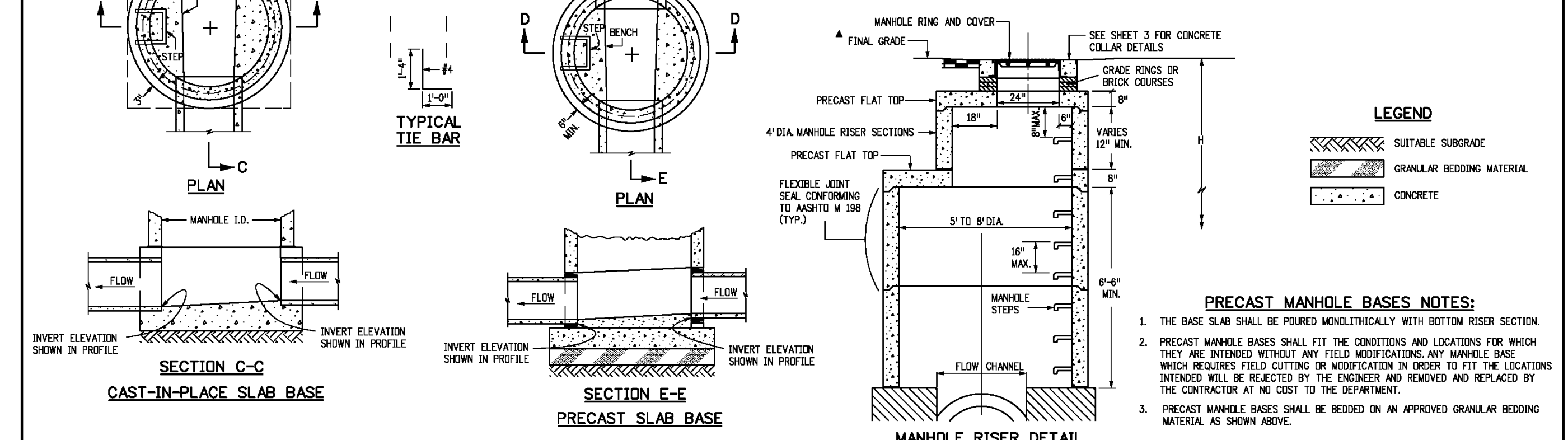
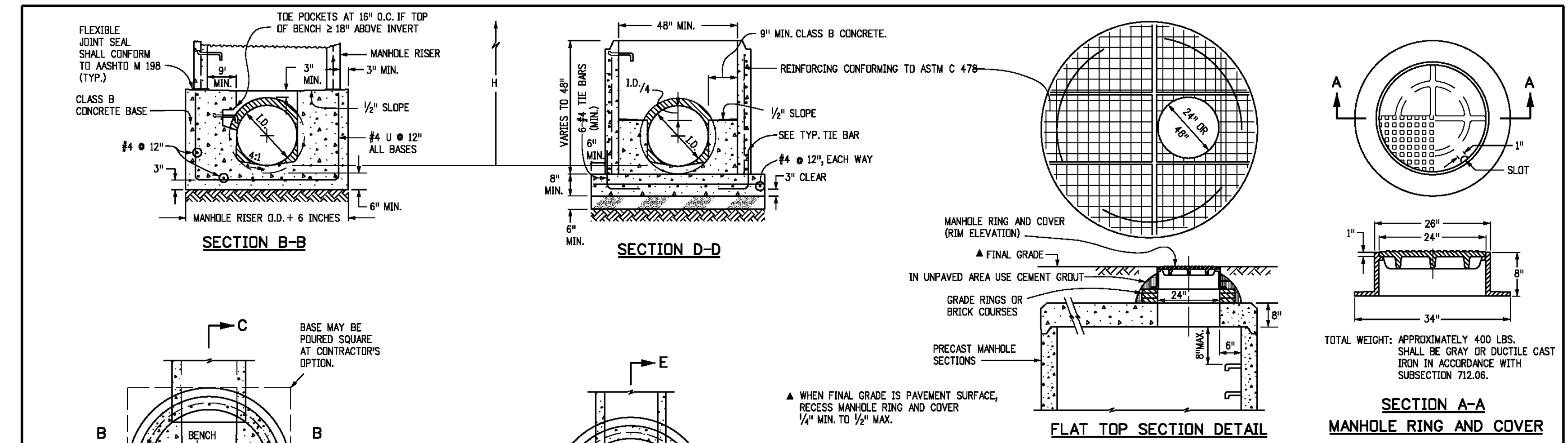
GENERAL NOTES

- SINCE ALL PIPE ENTRIES INTO THE BASE ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK.
- THE PRECAST FLAT TOP MAY BE USED ON ANY MANHOLE. THE ECCENTRIC CONE MAY BE USED WHEN THE MANHOLE "H" HEIGHT IS AT LEAST 8 FT.
- THE MANHOLE RING FRAME SHALL BE SET IN A BED OF GROUT. THE FRAME SHALL BE SURROUNDED WITH A CEMENT GROUT IN UNPAVED AREA OR A CONCRETE COLLAR IN PAVED AREA. SEE DETAILS ON SHEETS 2 AND 3.
- DESIGN OF BOX BASE IS BASED ON STRAIGHT RUNS OF PIPE OR CHANGE IN DIRECTION OF LESS THAN 45°. SPECIAL DESIGN IS REQUIRED FOR 45° OR GREATER.
- PRECAST MANHOLES AND REINFORCEMENT SHALL CONFORM TO AASHTO M 199 (ASTM C 478).
- ALL REINFORCING STEEL SHALL BE GRADE 60 AND EPOXY COATED. VERTICAL STEEL SHALL BE PLACED AT CENTERLINE OF WALL. ALL BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE.
- CAST-IN-PLACE MANHOLES SHALL BE CLASS B CONCRETE.
- STEPS SHALL BE REQUIRED WHEN THE MANHOLE DEPTH EXCEEDS 3 FT. 6 IN. AND SHALL CONFORM TO AASHTO M 199 (ASTM C 478).
- ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADJUSTED FOR PIPE SIZE, SHAPE, SLOPE AND DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL FOR INSTALLATIONS WITH ALL INVERTS OF SAME RELATIVE ELEVATION. FOR EXCESSIVE ELEVATION DIFFERENCE BETWEEN INVERTS, SPECIAL BASE/CHANNEL DETAILS WILL BE SHOWN ON THE PLANS.
- FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED GROUT.
- STUB-OUTS SHALL EXTEND 2 FT. MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED.
- THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE.
- WHEN FINAL GRADE IS PAVEMENT SURFACE, RECESS MANHOLE RING AND COVER 1/4\"/>

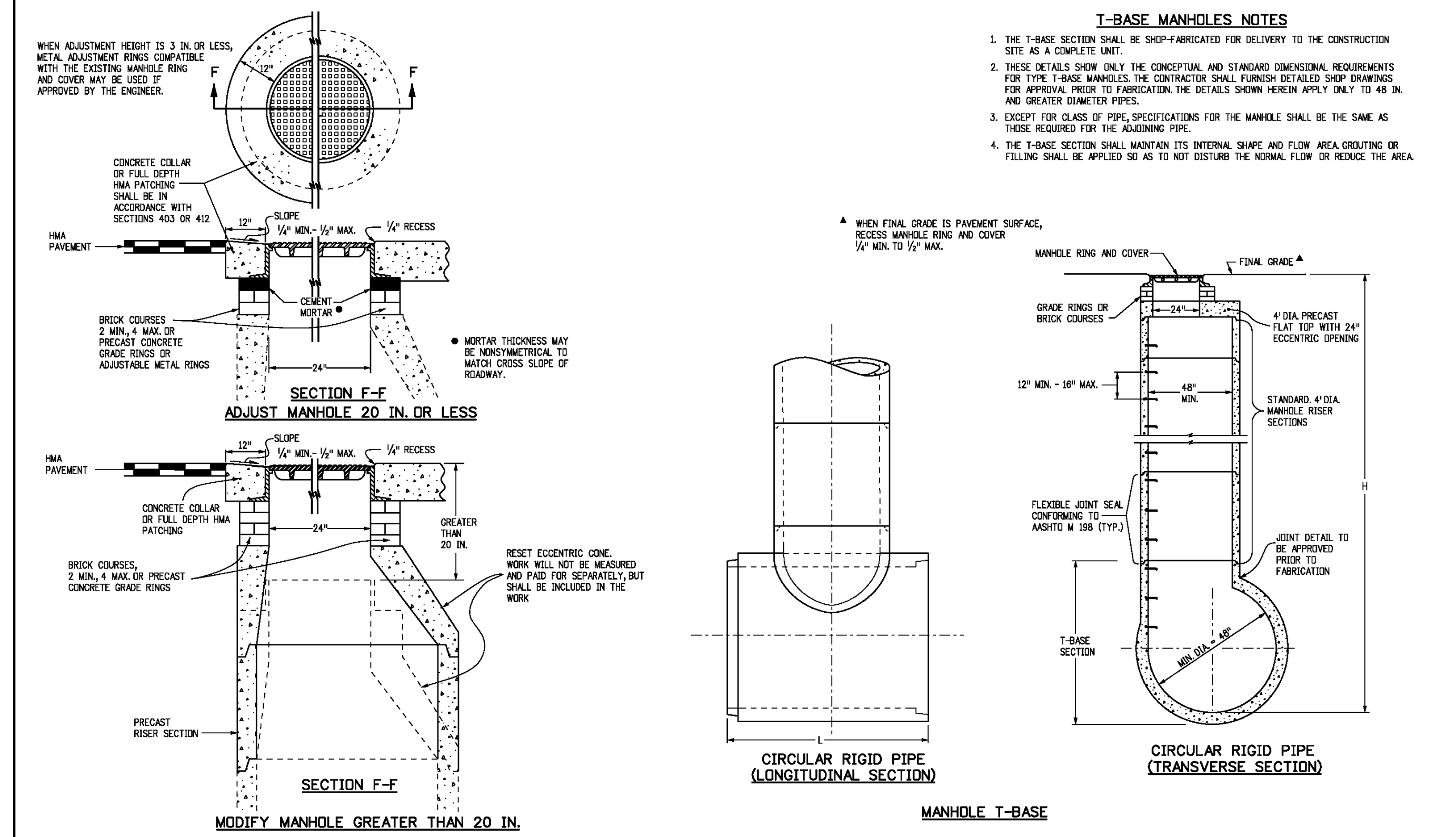
| MARK | SIZE | TYPE | WT. #/FT. | NO. REQS. | NO. REQS. (LENGTH) | NO. REQS. (WEIGHT) | FORMULAS |
|------|------|------|-----------|-----------|--------------------|--------------------|---|
| 401 | 4 | I | 0.668 | 54 | 60 | 68 | 401 BAR LENGTH = 32\"/> |
| 402 | 4 | III | 0.668 | 5 | 5 | 5 | 402 BAR LENGTH = L.D. + 2W |
| 501 | 5 | I | 1.043 | 17 | 17 | 17 | 501 BAR LENGTH = 24\"/> |
| 502 | 5 | I | 1.043 | 22 | 23 | 25 | 502 NUMBER BARS REQD. = 3 + (24(L.D.+2W)/4) @ 5\"/> |
| 503 | 5 | II | 1.043 | 16 | 18 | 18 | 503 BAR LENGTH = 4\"/> |
| 504 | 5 | I | 1.043 | 12 | 12 | 12 | 504 NUMBER BARS REQD. = 2 (2W+L.D.) @ 12\"/> |
| 1101 | 11 | I | 5.313 | 7 | 7 | 7 | 1101 BAR LENGTH = 21\"/> |
| 1102 | 11 | I | 5.313 | 2 | 2 | 2 | 1102 BAR LENGTH = 21\"/> |
| 1103 | 11 | I | 5.313 | 3 | 3 | 3 | 1103 BAR LENGTH = 21\"/> |



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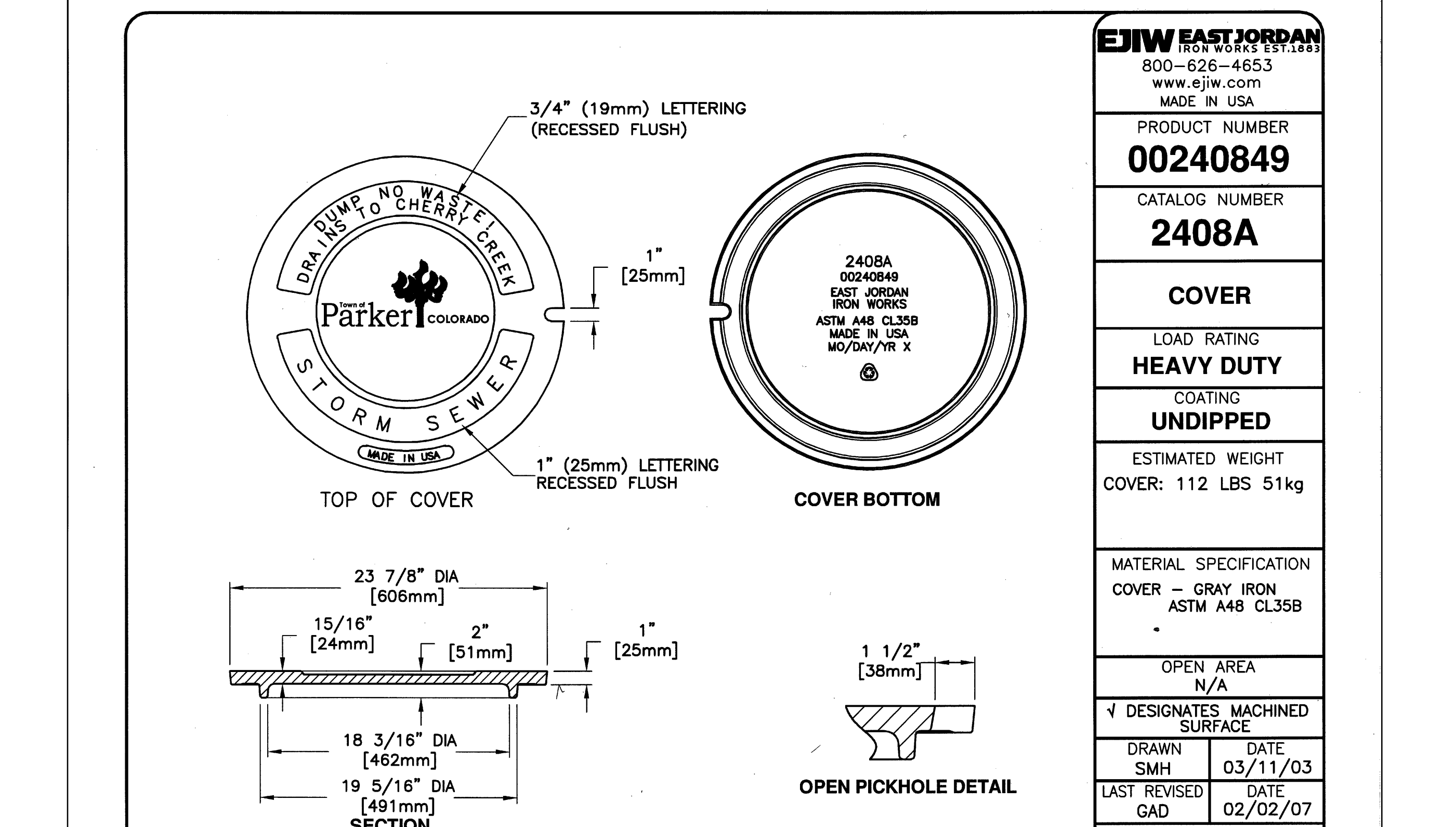
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T-BASE MANHOLES NOTES

- THE T-BASE SECTION SHALL BE SHIP-FABRICATED FOR DELIVERY TO THE CONSTRUCTION SITE AS A COMPLETE UNIT.
- THESE DETAILS SHOW ONLY THE CONCEPTUAL AND STANDARD DIMENSIONAL REQUIREMENTS FOR TYPE T-BASE MANHOLES. THE CONTRACTOR SHALL FURNISH DETAILED SHIP DRAWINGS FOR APPROVAL PRIOR TO FABRICATION. THE DETAILS SHOWN HEREIN APPLY ONLY TO 48 IN. AND GREATER DIAMETER PIPES.
- EXCEPT FOR CLASS OF PIPE, SPECIFICATIONS FOR THE MANHOLE SHALL BE THE SAME AS THOSE REQUIRED FOR THE ADJOINING PIPE.
- THE T-BASE SECTION SHALL MAINTAIN ITS INTERNAL SHAPE AND FLOW AREA GROUTING OR FILLING SHALL BE APPLIED SO AS TO NOT DISTURB THE NORMAL FLOW OR REDUCE THE AREA.

| Computer File Information | Sheet Revisions | Colorado Department of Transportation | STANDARD PLAN NO. |
|--|--|--|------------------------------|
| Creation Date: 07/04/12 Last Modification Date: 07/04/12 Full Path: www.coloradodot.info/business/designsupport Drawing File Name: M0604200203.dgn CAD Ver: MicroStation V8 Scale: Not to Scale Units: English | Initials: DD Date: _____ Comments: _____ | 4201 East Arkansas Avenue Denver, Colorado 80222 Phone: (303) 757-9083 Fax: (303) 757-9820 Project Development Branch DD/LTA | M-604-20 Sheet No. 3 of 3 |



| Computer File Information | Sheet Revisions | Colorado Department of Transportation | STANDARD PLAN NO. |
|--|--|--|------------------------------|
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CATALOG NUMBER 2408A

COVER

LOAD RATING HEAVY DUTY

COATING UNDIPPED

ESTIMATED WEIGHT COVER: 112 LBS 51kg

MATERIAL SPECIFICATION COVER - GRAY IRON ASTM A48 CL35B

OPEN AREA N/A

DESIGNATES MACHINED SURFACE

DRAWN SMH DATE 03/11/03

LAST REVISED ETG DATE 02/02/07

GAD

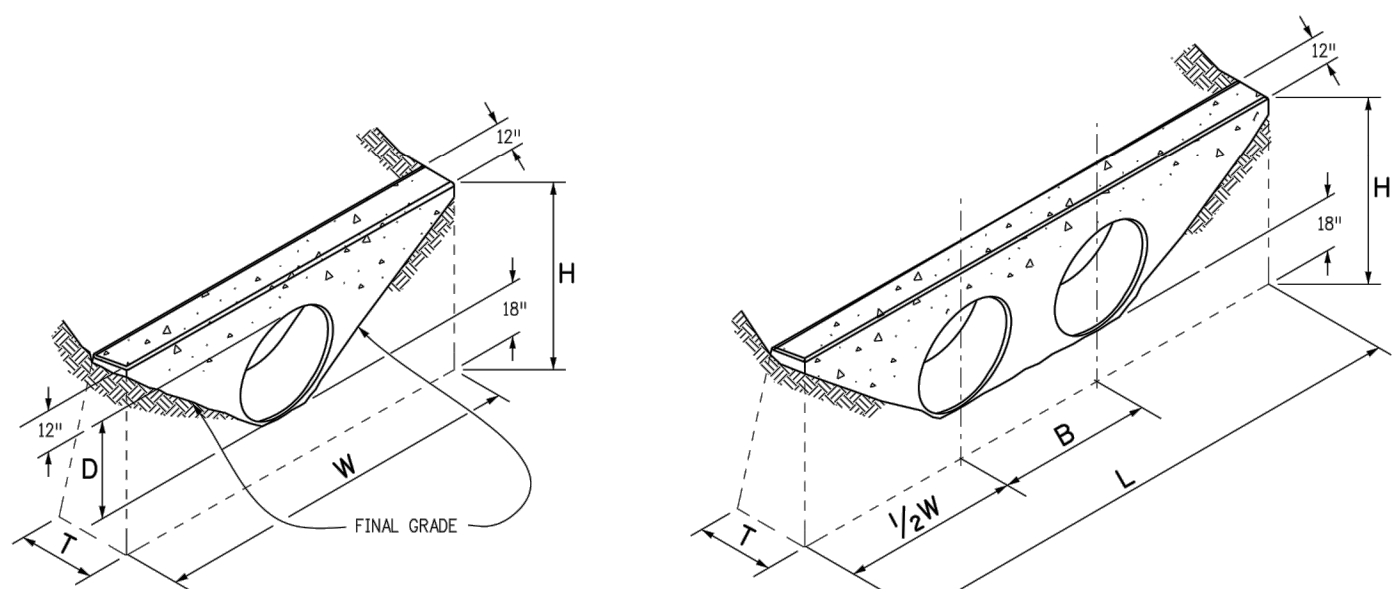
REFERENCE INFORMATION 00240841

COMPARK VILLAGE SOUTH - BELFORD AVENUE
TOWN OF PARKER, COLORADO
STORM DETAILS

PROJ. MGR.: RLB
 PROJ. ASSOC.: BRB
 DRAWN BY: ETG
 DATE: 12/2015

SHEET
31 OF 32
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PENDING APPROVAL



SINGLE PIPE DOUBLE PIPE

CONCRETE HEADWALL INSTALLATIONS
SEE STANDARD PLAN M-601-10 FOR REINFORCING DETAILS.

| PIPE | PIPE DIAMETER (AND EQUIVALENT DIAMETER) (IN.) | | | | | | | | | | | | |
|------------|---|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|
| | 18 | | 24 | | 30 | | 36 | | 42 | | 48 | | |
| TYPE | MATERIAL | SINGLE | DOUBLE | SINGLE | DOUBLE | SINGLE | DOUBLE | SINGLE | DOUBLE | SINGLE | DOUBLE | SINGLE | DOUBLE |
| CIRCULAR | RIGID | 1.0 | 1.3 | 1.5 | 2.0 | 2.0 | 2.7 | 2.8 | 3.6 | 3.6 | 4.6 | 4.6 | 6.0 |
| | FLEXIBLE | 1.1 | 1.4 | 1.6 | 2.1 | 2.2 | 3.0 | 3.0 | 4.0 | 3.9 | 5.3 | 5.0 | 6.8 |
| ELLIPTICAL | RIGID | 23 x 14 | | 30 x 19 | | 38 x 24 | | 45 x 29 | | 53 x 34 | | 60 x 38 | |
| | FLEXIBLE | 0.9 | 1.2 | 1.3 | 1.6 | 1.7 | 2.2 | 2.3 | 2.9 | 2.9 | 3.7 | 3.5 | 4.4 |
| ARCH | METAL | 22 x 13 | | 29 x 18 | | 36 x 22 | | 43 x 27 | | 50 x 31 | | 58 x 36 | |
| | CONCRETE | 0.9 | 1.3 | 1.4 | 1.9 | 1.8 | 2.4 | 2.4 | 3.4 | 3.2 | 4.4 | 3.4 | 5.0 |

CONCRETE QUANTITIES FOR ONE CONCRETE HEADWALL (CUBIC YARDS)

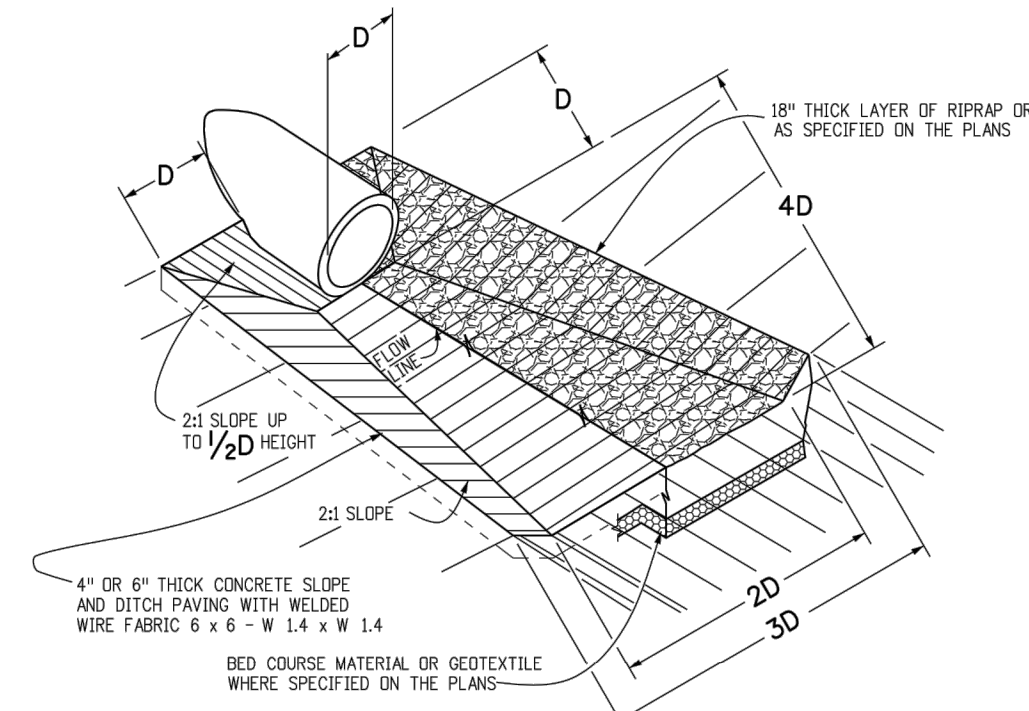
| THICKNESS | MATERIAL | PIPE DIAMETER (IN.) | | | | | |
|-----------|----------|---------------------|-----|-----|-----|------|------|
| | | 18 | 24 | 30 | 36 | 42 | 48 |
| 4" | CONCRETE | 0.4 | 0.8 | 1.2 | | | |
| 6" | CONCRETE | | | | 2.6 | 3.6 | 4.7 |
| 18" | RIPRAP | 2.0 | 3.5 | 5.4 | 7.8 | 10.7 | 13.9 |

PIPE OUTLET PAVING (CUBIC YARDS)

NOTE: VOLUME OCCUPIED BY PIPE HAS BEEN DEDUCTED.

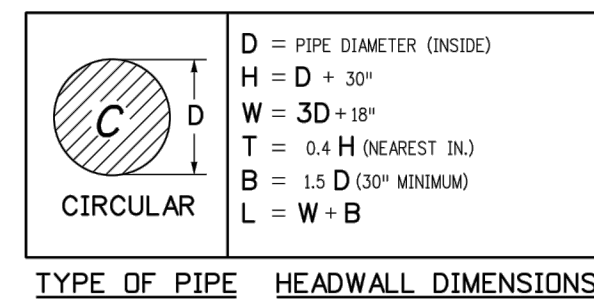
GENERAL NOTES

- FOR SIZE AND LOCATION OF PIPES, SEE THE PLANS.
- ALL CONCRETE SHALL BE CLASS B.
- FOOTINGS IN ROCK SHALL BE PEERED OUT TO ROCK AND NOT FORMED IN ACCORDANCE WITH SUBSECTION 601.03.03.
- EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED 1/4" IN.
- HEADWALL SHALL HAVE REINFORCING STEEL INSTALLED IN A PATTERN SIMILAR TO STANDARD PLAN M-601-10.
- THE COST OF REINFORCING STEEL SHALL BE INCLUDED IN THE WORK UNLESS THE STEEL QUANTITIES ARE LISTED IN THE PLANS AND ARE PAID FOR SEPARATELY.

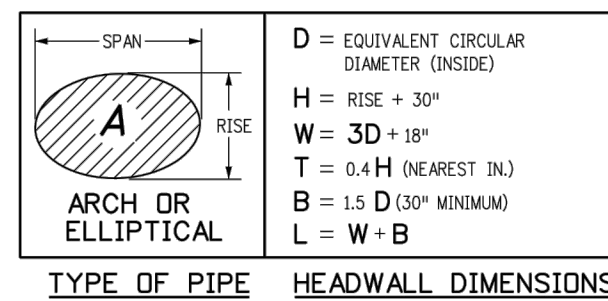


PIPE OUTLET PAVING

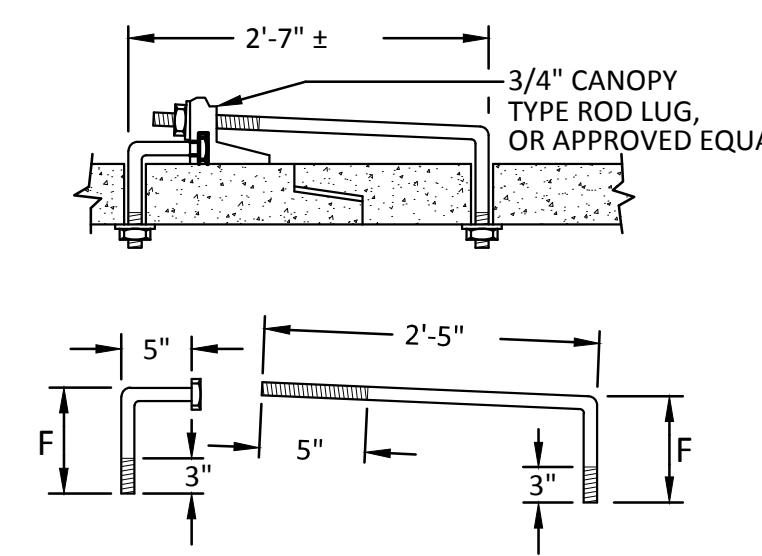
MAY BE USED WITH MULTIPLE PIPES.



TYPE OF PIPE HEADWALL DIMENSIONS

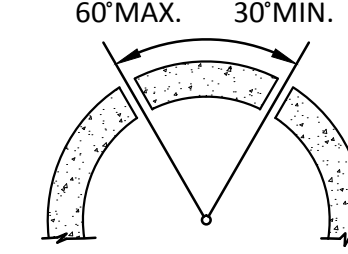


TYPE OF PIPE HEADWALL DIMENSIONS



3/4" GALVANIZED ANCHOR BOLTS, NUTS AND WASHERS, MILD STEEL, ASTM A 307. ROD LUG SHALL BE COATED WITH COAL-TAR, EPOXY PAINT OR APPROVED EQUAL.

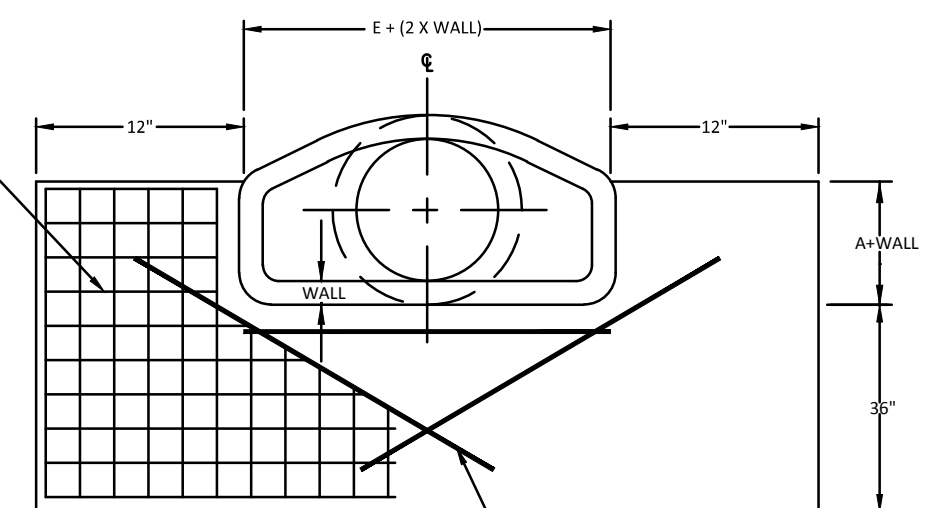
| PIPE DIAMETER | F |
|---------------|----|
| 18" - 30" | 5" |
| 36" - 42" | 6" |
| 48" - 60" | 7" |
| 72" - 84" | 9" |



CONCRETE JOINT FASTENER (TWO PER JOINT)

N.T.S.

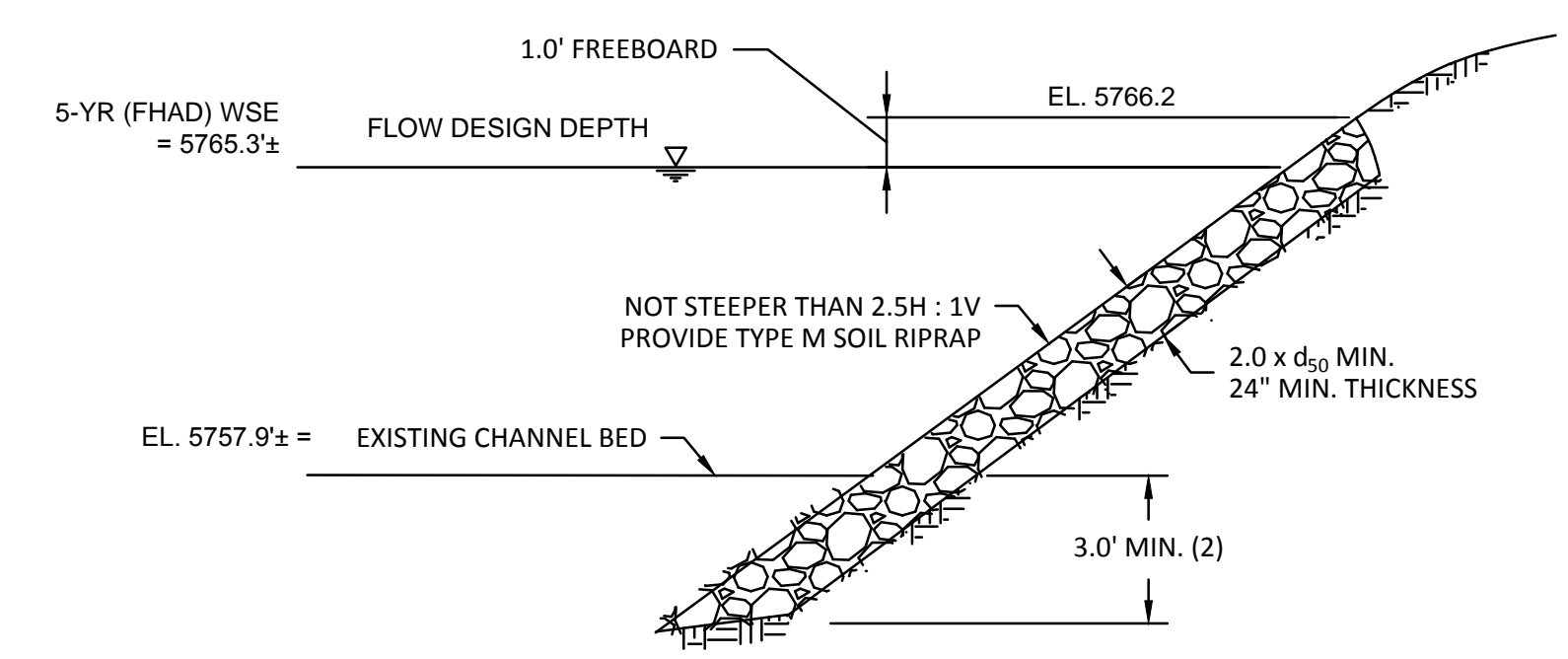
| PIPE DIA. | A | E |
|-----------|------|-----|
| 18" | 9" | 36" |
| 24" | 9.5" | 48" |
| 30" | 12" | 60" |
| 36" | 15" | 72" |
| 42" | 21" | 78" |
| 48" | 24" | 84" |



FLARED END SECTION TOEWALL DETAIL

N.T.S.

| | | | | | | | | | |
|--|---------------------|------------------------|-----------|--|------------------------|---|--|--|--|
| Computer File Information | | Sheet Revisions | | Colorado Department of Transportation | | HEADWALLS AND PIPE OUTLET PAVING | | STANDARD PLAN NO. | |
| Creation Date: 07/04/12 | Initials: DD | Date: | Comments: | 4201 East Arkansas Avenue | Denver, Colorado 80222 | | | M-601-12 | |
| Last Modification Date: 07/04/12 | Initials: LTA | | | Phone: (303) 757-9083 | Fax: (303) 757-9820 | | | Sheet No. 1 of 1 | |
| Full Path: www.coloradodot.info/business/designsupport | | | | Project Development Branch | DD/LTA | | | Issued By: Project Development Branch July 4, 2012 | |
| Drawing File Name: 60101201.dgn | | | | | | | | | |
| CAD Ver.: MicroStation V8 | Scale: Not to Scale | Unit: English | | | | | | | |

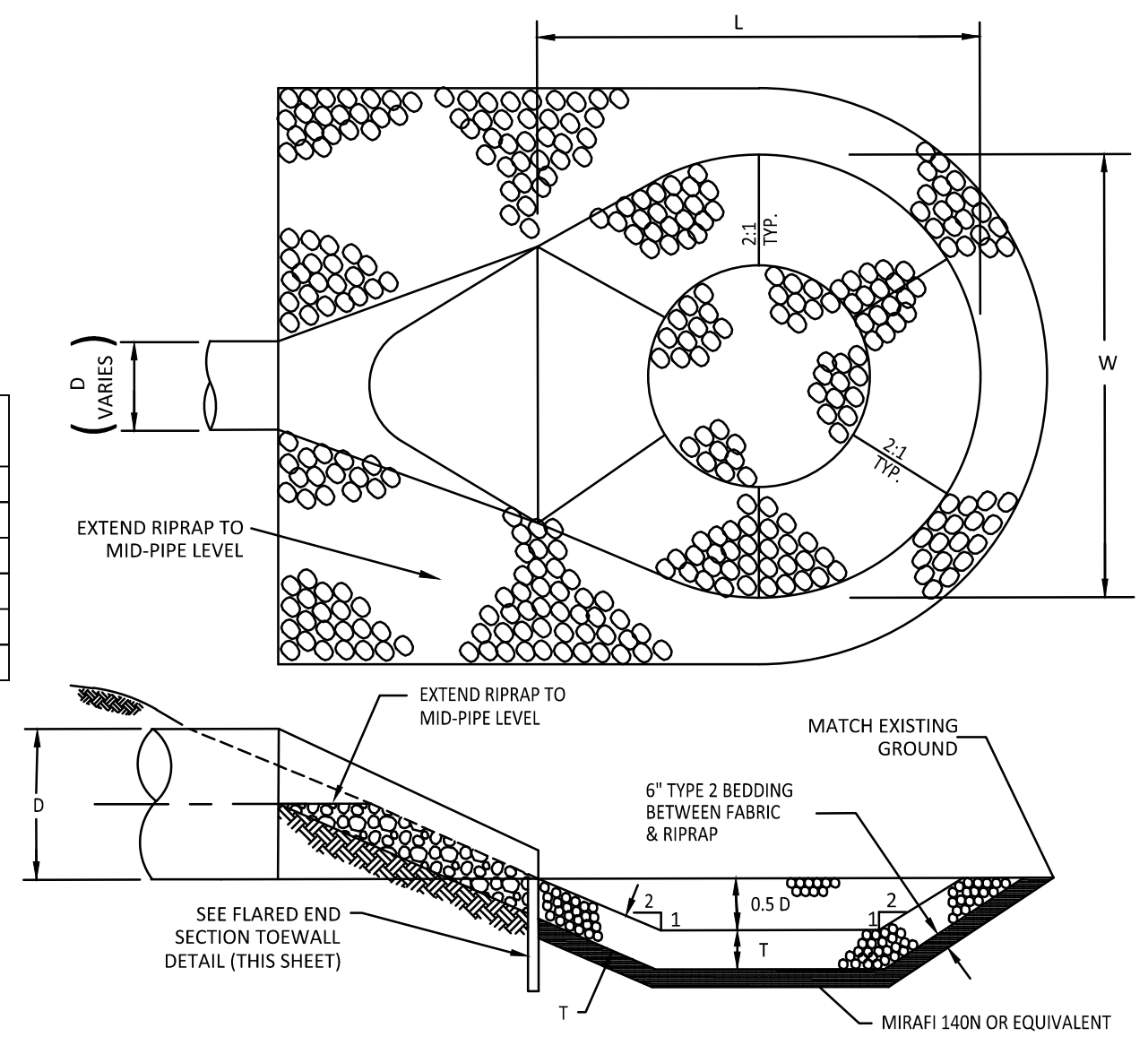


- USE SOIL RIPRAP WHEN d_{50} IS LESS THAN OR EQUAL TO TYPE M. (SUGGEST USE OF SOIL RIPRAP FOR LARGER RIPRAP SIZES AS WELL)
- 5 - FEET MINIMUM IN SANDY OR EROSION SOILS
- ELIMINATE GRANULAR BEDDING WHEN SOIL-RIPRAP IS USED

RIP-RAP TOE PROTECTION

N.T.S.

| PIPE DIA. (in) | d_{50} | T (ft.) | W (ft.) | L (ft.) |
|----------------|----------|---------|---------|---------|
| 18 | | 6 | 6 | 6 |
| 24 | | 8 | 8 | 8 |
| 30 | | 10 | 10 | 10 |
| 36 | 12" | 1.75 | 12 | 12 |
| 42 | | 14 | 14 | 14 |
| 48 | | 16 | 16 | 16 |



LOW TAILWATER RIPRAP BASIN

N.T.S.



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 Construction Managers • Environmental Scientists • Landscape Architects • Planners

COMPARK VILLAGE SOUTH - BELFORD AVENUE
 TOWN OF PARKER, COLORADO
 STORM DETAILS

PROJ. MGR.: RLB
 PROJ. ASSOC.: BRB
 DRAWN BY: ETG
 DATE: 12/2015

SHEET
32 OF 32
 CLCPKC3

PENDING APPROVAL