Know what's **below**.



ABBREVIATIONS

AMERICAN ASSOC. OF STATE HIGHWAY AND INCL INCLUDED TRANSPORTATION OFFICIALS INSIDE DIAMETER ABANDON ASPHALTIC CONCRETE PAVING INSUL INSULATION ADDL ADDENDUM IRRIGATION ADJUSTABLE JOINTS ALUMINUM ALTERNATE KNOCKOUT AMOUNT APPROX APPROXIMATE KPL KICK PLATE ARCHITECT(URAL) KEYWAY ARCH AIR RELIEF VALVE ARV LEFT OR LITER AMERICAN SOCIETY FOR TESTING AND ASTM MATERIALS LSCAPE LANDSCAPE(ING) ASPH **ASPHALT** LINEAR FOOT LOW POINT OR LIGHT POLE ASSEMBLY ASSY ASYM ASYMMETRICAL AUTOMATIC AUTO LOW WATER LEVEL AVG AVERAGE AMERICAN WATER WORKS ASSOC. MAINT MAINTENANCE AWWA MAN MANUAL BACK OF CURB MATERIAL MATL BFV BUTTERFLY VALVE MAXIMUM FINISHED GRADE ADJACENT TO BOTTOM OF WALL ME MATCH EXISTING BLDG MECHANICAL BUILDING BLK BLOCK MANUFACTURER MFR BENCH MARK MANHOLE BEST MANAGEMENT PRACTICE BMP MINIMUM BACKSIGHT MISCELLANEOUS BOS BOTTOM OF STEP MECHANICAL JOINT BOTTOM BSMT NORTH BASEMENT NOT APPLICABLE BVCE BEGIN VERTICAL CURVE ELEVATION BVCS BEGIN VERTICAL CURVE STATION NOT IN CONTRACT NATIONAL PIPE THREAD BW BOTTOM OF WALL NOT TO SCALE CB CATCH BASIN CCW COUNTER CLOCKWISE ON CENTER CDOT COLORADO DEPARTMENT OF TRANSPORTATION OUTSIDE DIAMETER OD CAST IRON PIPE OPP OPPOSITE CONSTRUCTION JOINT OPT OPTIONAL CENTER LINE OR CHAIN LINK CLR POINT OF CURVATURE CMP CORRUGATED METAL PIPE PC0 PRESSURE CLEAN OUT CMU POINT OF CURVE RETURN CONCRETE MASONRY UNIT CLEANOLI POINT OF INTERSECTION CONC CONCRETE POINT OF VERTICAL INTERSECTION CONST CONSTRUCTION PROPERTY LINE POLYETHYLENE CONTINUOUS(ATION) PREFABRICATED CORNER PRELIM PRELIMINARY CONCENTRIC REDUCER PREP PREPARATION CTR CENTER PRV PRESSURE REDUCING VALVE OR PRESSURE RELIEF VALVE DEMO DEMOLITION POUNDS PER SQUARE FOOT DIAMETER POUNDS PER SQUARE INCH DIAG DIAGONAL POINT OF TANGENCY DUCTILE IRON PIPE DOM PLUG VALVE DOMESTIC POLYVINYL CHLORIDE OR POINT OF VERTICAL DOWN CURVATURE DRAIN PVMT PAVEMENT DWG DRAWING DWL DOWEL QUANTITY RIGHT RAD RADIUS EACH RCP REINFORCED CONCRETE PIPE ECC **ECCENTRIC** ROOF DRAIN EXPANSION J REFERENCE ELEVATION RECT RECTANGULAR ELB ELBOW ELEC ELECTRICAL REINF REINFORCE (D) (ING) (MENT) ENGR ENGINEER REQD REQUIRED EOP EDGE OF PAVEMENT ROW RIGHT OF WAY EQ EQUAL EQUIP SAN SANITARY EQUIPMENT EQUIV EQUIVALENT STORM DRAIN ESMT EASEMENT SECTION EST ESTIMATE STANDARD PROCTOR DENSITY EVCE END VERTICAL CURVE ELEVATION SPEC SPECIFICATION END VERTICAL CURVE STATION EVCS SQ IN SQUARE INCH ΕW EACH WAY EXP JT EXPANSION JOINT SQUARE FOOT EXIST SQUARE YARD EXISTING SANITARY SEWER FND FOUNDATION STAINLESS STEEL FES FLARED END SECTION STA STATION FINISH FLOOR STD STANDARD FINISH GRADE STRUCT STRUCTURAL FIRE HYDRANT FLOW LINE SERVICE STORMWATER MANAGEMENT PLAN FN FENCE FOC FACE OF CONCRETE SYMSYMMETRICAL FOV FIBER OPTIC VAUL FPM FEET PER MINUTE THRUST BLOCK FPS FEET PER SECOND TOP BACK OF CURB TEMPORARY BENCH MARK FTG FOOTING OR FITTING FINISHED GRADE ADJACENT TO TOP OF WALL THICK

TOB

TW

TYP

UGE

UTIL

TOP OF BANK

TOP OF STEP

TYPICAL

VERTICAL

WITH

WITHOUT

TOP OF CONCRETE OR TOP OF CURB

TOP OF WALL OR CAP OF WALL

POINT OF VERTICAL CURVATURE

WATER QUALITY CONTROL VOLUME

WATER SURFACE ELEVATION

UNIFORM BUILDING CODE

UNDERGROUND ELECTRIC

VITRIFIED CLAY PIPE

WIDE OR WIDTH

WASTEWATER

YARD HYDRANT

SECT CROSS SECTION

ELECTRICAL TRANSFORMER

GAUGE

GALLON

GRATING

HIGH HOSE BIB

GATE VALVE

HEADWALL

HAND RAIL

HORIZONTAL

HIGH POINT

HIGHWAY

HYDRANT

HIGH WATER LINE

GALVANIZED

GRADE CLEANOUT

GALLONS PER DAY

GALLONS PER MINUTE

GALVANIZED STEEL PIPE

HORIZONTAL ELLIPTICAL

HEATING, VENTILATION, AIR CONDITIONING

GALVANIZED IRON PIPE

GAL

GALV

GCO

GIP

GND

GPD

GPM

GRTG

HDWL

HNDRL

HORIZ

HVAC

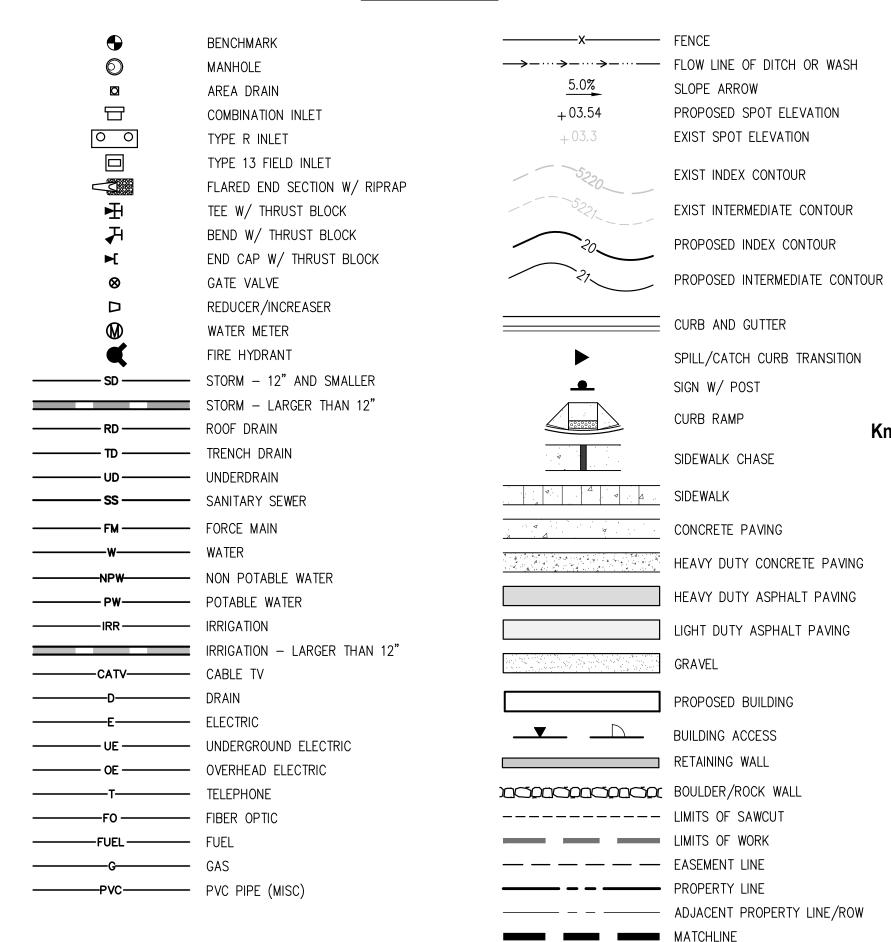
HWY

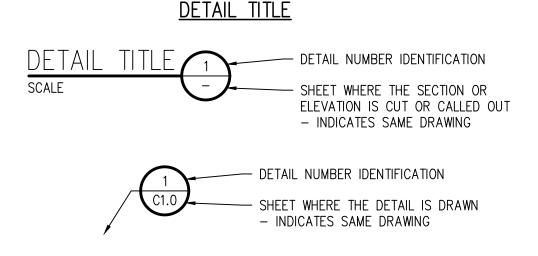
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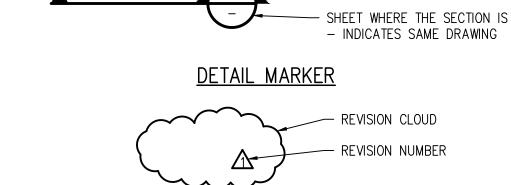
HYD

GSP

DESIGN LEGEND

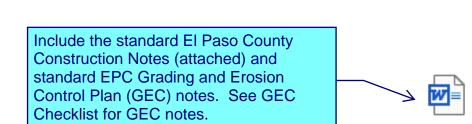






SECTION CALLOUT

- SECTION NUMBER IDENTIFICATION



GENERAL NOTES

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE EL PASO COUNTY, FALCON SCHOOL DISTRICT, COLORADO DEPARTMENT OF TRANSPORTATION, FALCON FIRE PROTECTION REQUIREMENTS, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED PLANS, STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND STRUCTURE AT ALL TIMES PER THE APPLICABLE FALCON FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY CONFLICTING STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.
- 2. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARD SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE PROPOSED WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (CDPHE) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE REQUIRED PARTY (FALCON SCHOOL DISTRICT, OWNER'S REPRESENTATIVE, EL PASO COUNTY/FALCON INSPECTOR, GEOTECHNICAL ENGINEER, ENGINEER AND/OR UTILITY OWNER) AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION, PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.
- 4. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE ENGINEER AND/OR OWNER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OR COMPLETENESS SHOWN ON PLANS. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LIKEWISE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MAPPING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM EL PASO COUNTY/UTILITY OWNER AND ENGINEER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE Call before you dig. CONTRACTOR SHALL NOTIFY THE UTILITY NOTIFICATION CENTER OF COLORADO (1-800-922-1987, WWW.UNCC.ORG). SEE SURVEY UTILITY LOCATION INFORMATION BELOW.
 - 5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL PERSONS AND PROPERTY DURING THE PERFORMANCE OF THE WORK. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR OWNER AND/OR CITY APPROVAL AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES," PART VI, FOR CONSTRUCTION SIGNAGE AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE. PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN NUMBERS.
 - 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STREETS NOR EROSION ON ABUTTING PROPERTIES IN ORDER TO CONSTRUCT THE IMPROVEMENTS SHOWN ON THESE PLANS. GROUNDWATER TO BE PUMPED SHALL BE TESTED, PERMITTED, AND PUMPED PER THE STATE OF COLORADO AND LOCAL GROUNDWATER DISCHARGING PERMIT REQUIREMENTS.
 - 7. RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND FINISHED GRADE ELEVATIONS.
 - 8. THE EXISTING AND PROPOSED ELEVATIONS OF FLATWORK, SIDEWALKS, CURBS, THRESHOLDS, PAVING, ETC. AS SHOWN HEREON ARE BASED ON EXTRAPOLATION OF FIELD SURVEY DATA, EXISTING CONDITIONS, AND DATA PROVIDED BY OTHERS. AT CRITICAL AREAS AND SITE FEATURES, CONTRACTOR SHALL HAVE FORMWORK INSPECTED AND APPROVED BY OWNER, OWNER'S REPRESENTATIVE, OR ENGINEER PRIOR TO PLACING CONCRETE. MINOR ADJUSTMENTS, AS APPROVED, TO PROPOSED GRADES, INVERTS, ETC. MAY BE REQUIRED TO PREVENT PONDING OR SLOPE NOT IN CONFORMANCE WITH MUNICIPAL STANDARDS. ALL FLATWORK MUST PREVENT PONDING AND PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING AND PROPOSED BUILDINGS, WALLS, ROOF DRAIN OUTFALLS, ACROSS DRIVES AND WALKS, ETC., TOWARDS THE PROPOSED INTENDED DRAINAGE FEATURES AND CONVEYANCES.
 - 9. FINAL LIMITS OF REQUIRED ASPHALT SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SAWCUT AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK, CONNECTION POINTS TO EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.
 - 10. ANY EXISTING MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC. TO BE PROTECTED AND TO REMAIN IN SERVICE. IF FEATURES EXIST, EXTEND OR LOWER TO FINAL SURFACE WITH LIKE KIND CAP WITH STANDARD CAST ACCESS LID WITH SAME MARKINGS. IN LANDSCAPED AREAS PROVIDE A CONCRETE COLLAR (18"x18"x6" THICK) AT ALL EXISTING AND
 - PROPOSED MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC. 11. OWNER TO APPROVE ALL PRIVATE CONCRETE FINISHING. JOINT PATTERNS AND COLORING REQUIREMENTS PRIOR TO CONSTRUCTION. SUBMIT JOINT LAYOUT PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
 - 12. PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES. END OF FLARED END SECTIONS, ETC. SEE STRUCTURE DETAILS FOR EXACT HORIZONTAL CONTROL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL PIPE LENGTHS TO ACCOUNT FOR STRUCTURES AND LENGTH OF FLARED END SECTIONS.
 - 13. ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND RUBBISH CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED, AND THE AREA OCCUPIED DURING CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.
 - 14. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE STATE OF COLORADO, MILE HIGH FLOOD DISTRICT "URBAN STORM DRAINAGE CRITERIA MANUAL VOLUME 3", THE M-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. JURISDICTIONAL AUTHORITY MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SILT AND DEBRIS LADEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.
 - 15. ADA COMPLIANCE: THE CROSS-SLOPE OF ALL WALKS MUST BE LESS THAN 1:48 (2.0%) PERPENDICULAR TO DIRECTION OF TRAVEL. RUNNING SLOPE OF ACCESSIBLE WALKS MUST BE NOT STEEPER THAN 1:20 (5.0%) IN DIRECTION OF TRAVEL. MAXIMUM GRADE OF ACCESSIBLE CURB RAMPS AND RAMPS IS 1:12 (8.3%). CURB RAMPS SHALL PROVIDE A LANDING AT THE TOP AND RAMP RUNS PROVIDE LANDINGS AT THE BOTTOM AND TOP OF EACH RAMP RUN AT A SLOPE NOT TO EXCEED 1:48. RAMPS RUNS EXCEEDING SIX INCHES SHALL INCLUDE HANDRAILS. ACCESSIBLE PARKING SPACES AND ACCESS AISLES SHALL NOT EXCEED 1:48 IN ALL DIRECTIONS. CONTRACTOR SHALL NOTIFY ENGINEER PRIOR TO PLACEMENT OF FLATWORK OF SITE CONDITIONS OR DISCREPANCIES WHICH PREVENT TYPICAL REQUIRED GRADES FROM BEING ACHIEVED. ALL RAMPS, STAIRS, EDGE PROTECTION, AND RAILINGS SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS. ACCESSIBLE CURB RAMPS SHALL CONFORM TO THE CDOT M-STANDARDS (SEE DETAIL M-608-1, ETC). ACCESSIBLE FEATURE WITHIN THE PUBLIC RIGHTS-OF-WAY SHALL BE CONSTRUCTED TO CONFORM TO THE LOCAL AUTHORITY HAVING JURISDICTION REQUIREMENTS.
 - 16. PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES.
 - 17. SURVEY INFORMATION:
 - 17.1. BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY RIDGELINE LAND SURVEYING. SEE TOPOGRAPHIC EXHIBIT DATED 12/13/2021. PROJECT BENCHMARK ELEVATION WAS ESTABLISHED AT TWO LOCATIONS: BM#1 NORTH FLANGE BOLT ON HYDRANT LOCATED AT THE SW CORNER OF THE SITE DUE WEST OF THE SOUTH LINE OF THE BUILDING AT THE WEST EDGE OF THE PARKING LOT ELEV.= 6788.72'. BM#2 FLANGE BOLT BETWEEN "MUELLER" ON HYDRANT, LOCATED AT THE WEST SIDE OF THE PLAYGROUND AREA NORTH OF THE BUILDING ELEV.= 6796.57'. COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
 - 17.2. HORIZONTAL CONTROL INFORMATION: HORIZONTAL CONTROL COORDINATES ARE BASED ON THE REFERENCED SURVEY AND ARE PROVIDED BY THE FOLLOWING POINTS AS SHOWN ON THE PLANS:
 - CP-101 N4319.18 E7830.61 ELEV 6795.35 PK NAIL IN ASPHALT
 - CP-102 N4247.82 E7365.37 ELEV 6786.82 PK NAIL IN ASPHALT CP-103 N2370.23 E7121.66 ELEV 6810.27 PK NAIL IN ASPHALT CP-104 N1612.10 E7188.04 ELEV 6820.38 PK NAIL IN ASPHALT
 - 18. THE CONTRACTOR AT THE CONTRACTORS EXPENSE SHALL FURNISH THE OWNER AND ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS") FOR THE CONSTRUCTED IMPROVEMENTS. THE AS-BUILT SET SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES OR NORTHING/EASTING POINTS FOR ALL BURIED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE AS-BUILT SET SHALL SHOW AS-BUILT CONTOURS AND ELEVATIONS OF ASPHALT AND CONCRETE FLATWORK, FLOWLINES, GRADE BREAKS, STAIRS, CROSS-SLOPES, HIGH AND LOW POINTS, AND ADDITIONAL ELEVATIONS TO DEMONSTRATE IMPROVEMENTS WERE CONSTRUCTED PER PLANS. THE AS-BUILT SET SHALL SHOW ELEVATIONS OF ALL DETENTION/WATER QUALITY FACILITIES, INCLUDING BUT NOT LIMITED TO BERMS, SPILLWAYS, BASIN BOTTOM, PIPE INVERTS, AND CONTROL STRUCTURE FEATURES (AS SURVEYED AND STAMPED BY A CERTIFIED P.L.S.). THE AS-BUILT SET SHALL ALSO INCLUDE ELEVATIONS OF MANHOLES, PIPES, INLETS, GRATES, AND

SIZES OF ALL UTILITIES. THE AS-BUILT SET SHALL SHOW ANY AND ALL VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PRODUCE FINAL RECORD DRAWINGS.

19. COORDINATE ALL CONSTRUCTION ACTIVITIES WITH DISTRICT 49 LOT OWNER PRIOR TO CONSTRUCTION.

Item I. Include a note about existing vegetation.

To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be utilized onsite

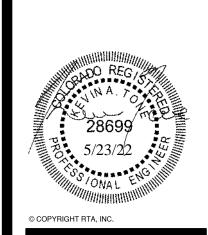
ARCHITECTS TELE. 719-471-7566 FAX: 719-471-1174 www.rtaarchitects.com

9 SOUTH TEJON ST., SUITE 300 OLORADO SPRINGS, CO. 80903

LEGEND, NOTES ABBREVIATIONS

RTA PROJECT NUMBER





OVERALL

2021-041.00 05/23/2022

DATE DESCRIPTION

8. CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR 9. REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH

ISSUED FOR:
CONSTRUCTION DOCUMENTS SHEET NO.

ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS

RELEVANT CONSTRUCTION AND PHASING PLANS.

INSTALLED PRIOR TO CONSTRUCTION.

HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.

LANDSCAPE ARCHITECT FOR TREE REMOVAL.

MAINTAIN SERVICES DURING CONSTRUCTION.

TEMPORARY ROUTE AND SIGNAGE AS NEEDED.

NEAREST JOINT.

NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN,

TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND

3. IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION.

4. REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED. 5. ALL SAWCUTTING AND PAVEMENT REMOVAL SHOULD BE TO THE

6. ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD

MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.

7. ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE

10. CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE

12. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.

11. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND

BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER,

DEMOLITION LEGEND

/////// DEMO BUILDING

·/·/·/·/·/·/· ABANDON SUBSURFACE FEATURE ----- LIMITS OF SAWCUT

PROTECT EXISTING TREE

REMOVE EXISTING TREE



49 TRANSPORTATION CENTE SCHOOL DISTRICT NO 49



SHEET TITLE
DEMOLITION
PLAN A

RTA PROJECT NUMBER
2021-041.00
DATE
05/23/2022

DATE
05/23/2022
REVISIONS

DATE DESCRIPTION

CAPPROVAL: CWK/HCM
IN BY: TWW/AMB
KED BY: CWK



I. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY

. ACTUAL LIMITS MAY VARY, CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF

DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND

. IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION. 4. REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED. 5. ALL SAWCUTTING AND PAVEMENT REMOVAL SHOULD BE TO THE

5. ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD

MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.

. ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE

CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR

. REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH

1. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND

REMOVE EXISTING TREE

PROTECT EXISTING TREE

++++++++ DEMO SURFACE FEATURE

////// DEMO BUILDING

---- LIMITS OF SAWCUT

O. CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE

2. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.

DEMOLITION LEGEND

BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER,

RELEVANT CONSTRUCTION AND PHASING PLANS.

HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.

LANDSCAPE ARCHITECT FOR TREE REMOVAL.

TEMPORARY ROUTE AND SIGNAGE AS NEEDED.

MAINTAIN SERVICES DURING CONSTRUCTION.

INSTALLED PRIOR TO CONSTRUCTION.

LOCATION AND PROTECTION.

NEAREST JOINT.



DEMOLITION

2021-041.00

05/23/2022



DEMOLITION NOTES:

- CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES
 PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY
- LOCATION AND PROTECTION.

 2. ACTUAL LIMITS MAY VARY, CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND RELEVANT CONSTRUCTION AND PHASING PLANS.
- 3. IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION.
 4. REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED.
 5. ALL SAWCUTTING AND PAVEMENT REMOVAL SHOULD BE TO THE
- NEAREST JOINT.

 6. ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER, MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.
- INSTALLED PRIOR TO CONSTRUCTION.

 8. CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.

 9. REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH LANDSCAPE ARCHITECT FOR TREE REMOVAL.

. ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE

10. CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE TEMPORARY ROUTE AND SIGNAGE AS NEEDED.
11. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN SERVICES DURING CONSTRUCTION.
12. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING

FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.

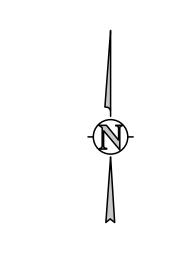
DEMOLITION LEGEND

---- LIMITS OF SAWCUT



REMOVE EXISTING TREE

PROTECT EXISTING TREE



2021-041.00
DATE
05/23/2022
REVISIONS
REVISIONS

DEMOLITION

QA/QC APPROVAL: CWK/HCM TWW/AME CHECKED BY: CWK

ISSUED FOR:
CONSTRUCTION
DOCUMENTS
SHEET NO.

J: \3456c\Drawings\3456c-00-DMO-01.dwg, 6/02/2022 - 11:33 AM, AMB



DEMOLITION NOTES:

- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION. . ACTUAL LIMITS MAY VARY, CONTRACTOR IS RESPONSIBLE FOR ADJUSTING LIMITS OF DEMOLITION AND CONSTRUCTION AS NECESSARY. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND
- RELEVANT CONSTRUCTION AND PHASING PLANS. 3. IF BUILDING DEMOLITION IS REQUIRED, REFER TO ARCHITECT AND APPLICABLE ENGINEERS FOR DETAILED DEMOLITION INFORMATION. 4. REPLACE EXISTING FLATWORK AT UTILITY TRENCHES AS REQUIRED. 5. ALL SAWCUTTING AND PAVEMENT REMOVAL SHOULD BE TO THE
- NEAREST JOINT. 6. ALL DRY UTILITY AND ELECTRIC DEMOLITION OR RELOCATION SHOULD BE COORDINATED WITH PROPERTY OWNER, UTILITY OWNER, MECHANICAL ENGINEER, AND ARCHITECT PRIOR TO CONSTRUCTION.

 7. ALL NECESSARY EROSION AND SEDIMENTATION CONTROLS MUST BE
- INSTALLED PRIOR TO CONSTRUCTION. 8. CONTRACTOR TO COMPLY WITH ALL REGULATORY REQUIREMENTS FOR HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.

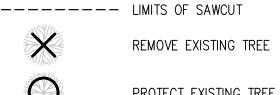
 9. REFER TO GENERAL NOTES FOR TREE PROTECTION. COORDINATE WITH LANDSCAPE ARCHITECT FOR TREE REMOVAL.

 10. CONTRACTOR TO MAINTAIN SAFE PEDESTRIAN ACCESS. PROVIDE
- TEMPORARY ROUTE AND SIGNAGE AS NEEDED. 11. CONTRACTOR TO TAKE NECESSARY PRECAUTIONS TO PROTECT AND MAINTAIN SERVICES DURING CONSTRUCTION. 12. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.

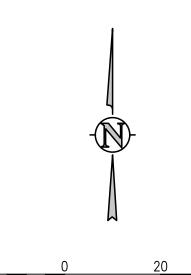
<u>DEMOLITION LEGEND</u>

++++++++ DEMO SURFACE FEATURE ////// DEMO BUILDING

----- LIMITS OF SAWCUT



PROTECT EXISTING TREE



2021-041.00 DATE 05/23/2022

DEMOLITION



49 TRANSPORTATION CENTE

12. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.

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RELEVANT CONSTRUCTION AND PHASING PLANS.

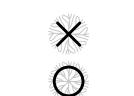
HAZARDOUS MATERIAL REMOVAL AND DISPOSAL.

TEMPORARY ROUTE AND SIGNAGE AS NEEDED.

MAINTAIN SERVICES DURING CONSTRUCTION.

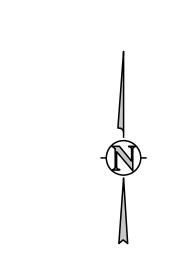
INSTALLED PRIOR TO CONSTRUCTION.

----- LIMITS OF SAWCUT



REMOVE EXISTING TREE

PROTECT EXISTING TREE



RTA PROJECT NUMBER
2021-041.00

DATE
05/23/2022

REVISIONS

DEMOLITION

QA/QC APPROVAL:
DRAWN BY:
CHECKED BY:

CWK/HC
TWW/AM
CWK



DEMOLITION

2021-041.00 DATE **05/23/2022**



DEMOLITION

2021-041.00

ISSUED FOR:
CONSTRUCTION

DOCUMENTS SHEET NO.

DATE DESCRIPTION

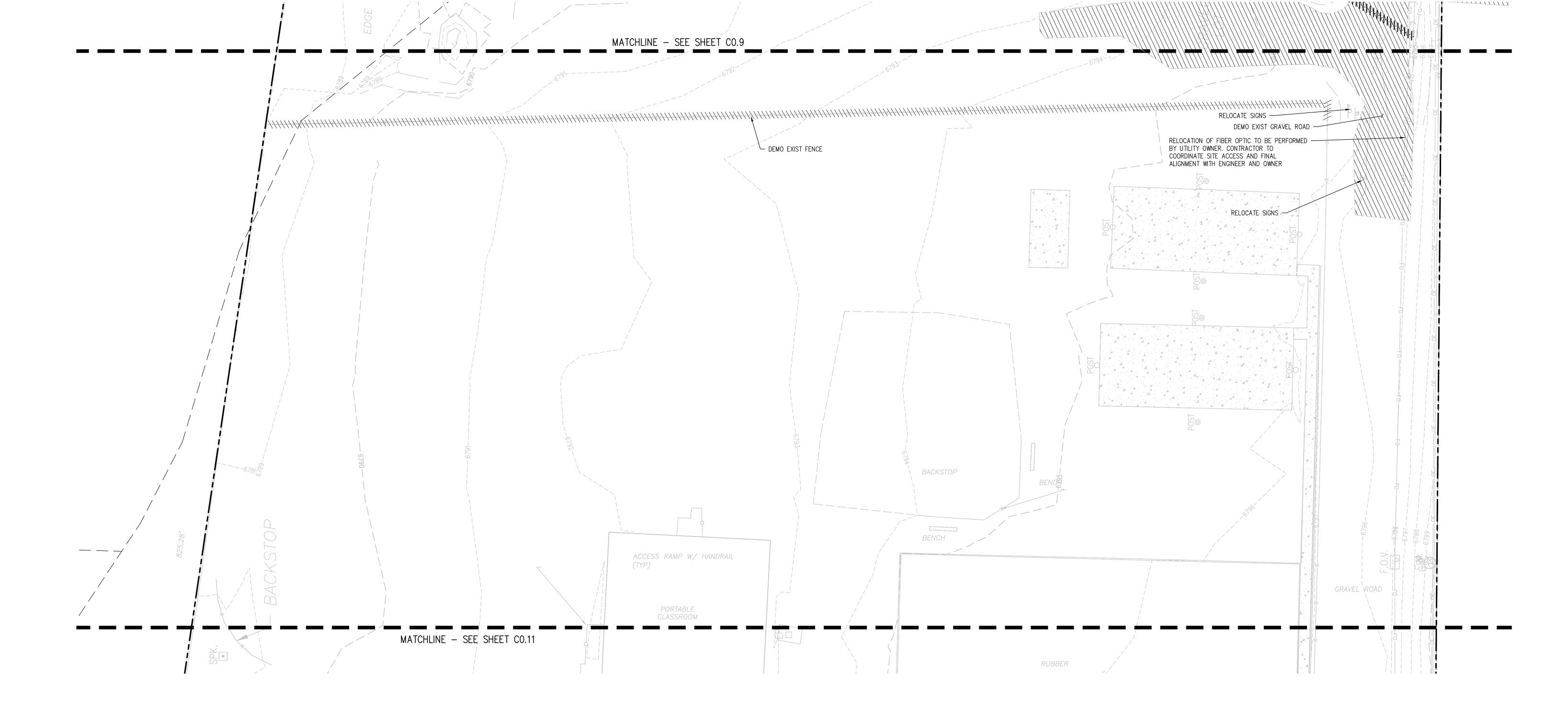
05/23/2022

REMOVE EXISTING TREE

PROTECT EXISTING TREE

////// DEMO BUILDING ---- LIMITS OF SAWCUT

DEMOLITION LEGEND



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DEMOLITION

2021-041.00 DATE 05/23/2022



OVERALL CONTROL PLAN

2021-041.00

05/23/2022

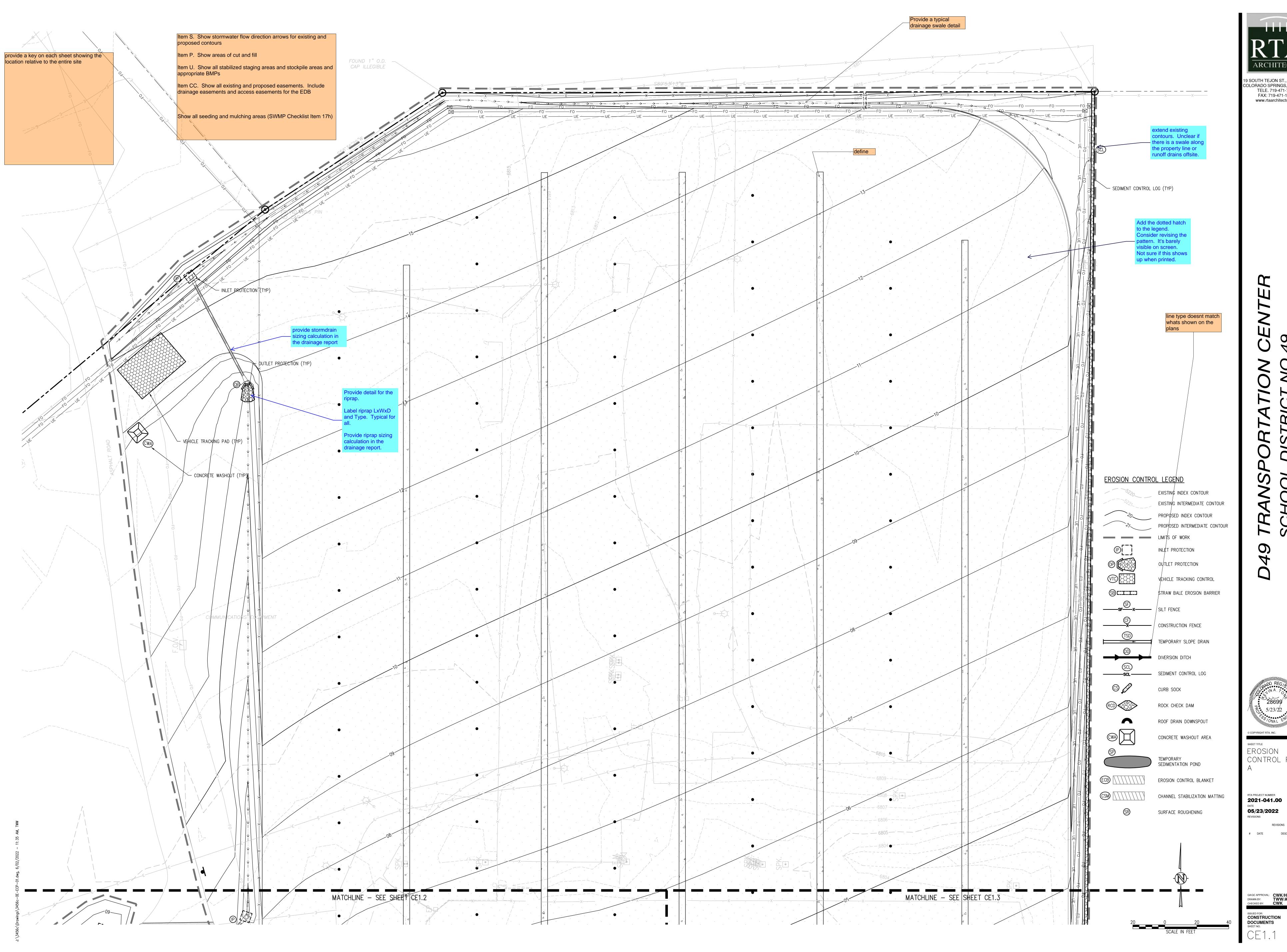
DISTURB ADJACENT AND/OR RIGHT-OF-WAY PROPERTIES,

CONSTRUCTION.

COORDINATION WITH PROPERTY OWNERS IS REQUIRED PRIOR TO

SURFACE ROUGHENING

CONSTRUCTION **DOCUMENTS**





CONTROL PLAN

2021-041.00

19 SOUTH TEJON ST., SUITE 300 COLORADO SPRINGS, CO. 80903 TELE. 719-471-7566 FAX: 719-471-1174



EROSION

CONTROL PLAN

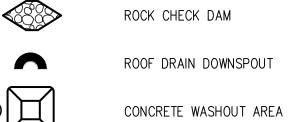
EXISTING INDEX CONTOUR EXISTING INTERMEDIATE CONTOUR PROPOSED INDEX CONTOUR PROPOSED INTERMEDIATE CONTOU INLET PROTECTION OUTLET PROTECTION VEHICLE TRACKING CONTROL STRAW BALE EROSION BARRIER

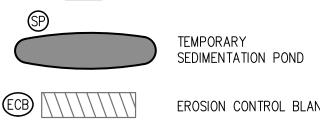
EROSION CONTROL LEGEND

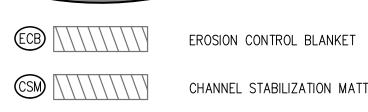
——— CONSTRUCTION FENCE TEMPORARY SLOPE DRAIN

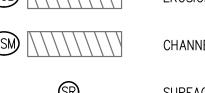
DIVERSION DITCH ______ SEDIMENT CONTROL LOG





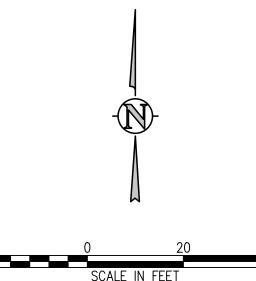




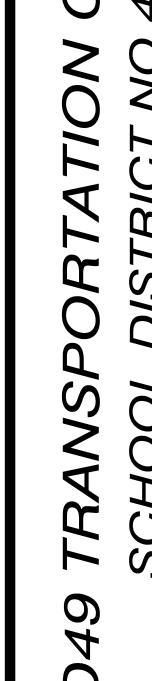


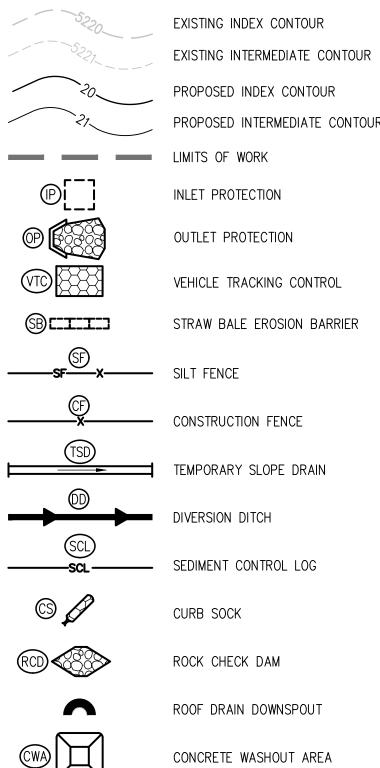
CHANNEL STABILIZATION MATTING SURFACE ROUGHENING











TEMPORARY
SEDIMENTATION POND

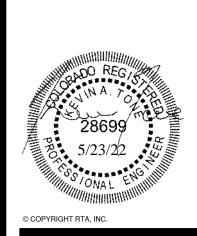
SURFACE ROUGHENING

CHANNEL STABILIZATION MATTING

ECB This is a second control blanket

SR

EROSION CONTROL LEGEND



CONTROL PLAN

2021-041.00
DATE
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REVISIONS

CONSTRUCTION DOCUMENTS
SHEET NO.



EROSION CONTROL LEGEND

_____sf__x____ SILT FENCE

DIVERSION DITCH

______ SEDIMENT CONTROL LOG

ECB EROSION CONTROL BLANKET

EXISTING INDEX CONTOUR

EXISTING INTERMEDIATE CONTOUR

PROPOSED INTERMEDIATE CONTOUR

PROPOSED INDEX CONTOUR

INLET PROTECTION

OUTLET PROTECTION

CONSTRUCTION FENCE

CURB SOCK

ROCK CHECK DAM

ROOF DRAIN DOWNSPOUT

CONCRETE WASHOUT AREA

TEMPORARY
SEDIMENTATION POND

SURFACE ROUGHENING

CHANNEL STABILIZATION MATTING

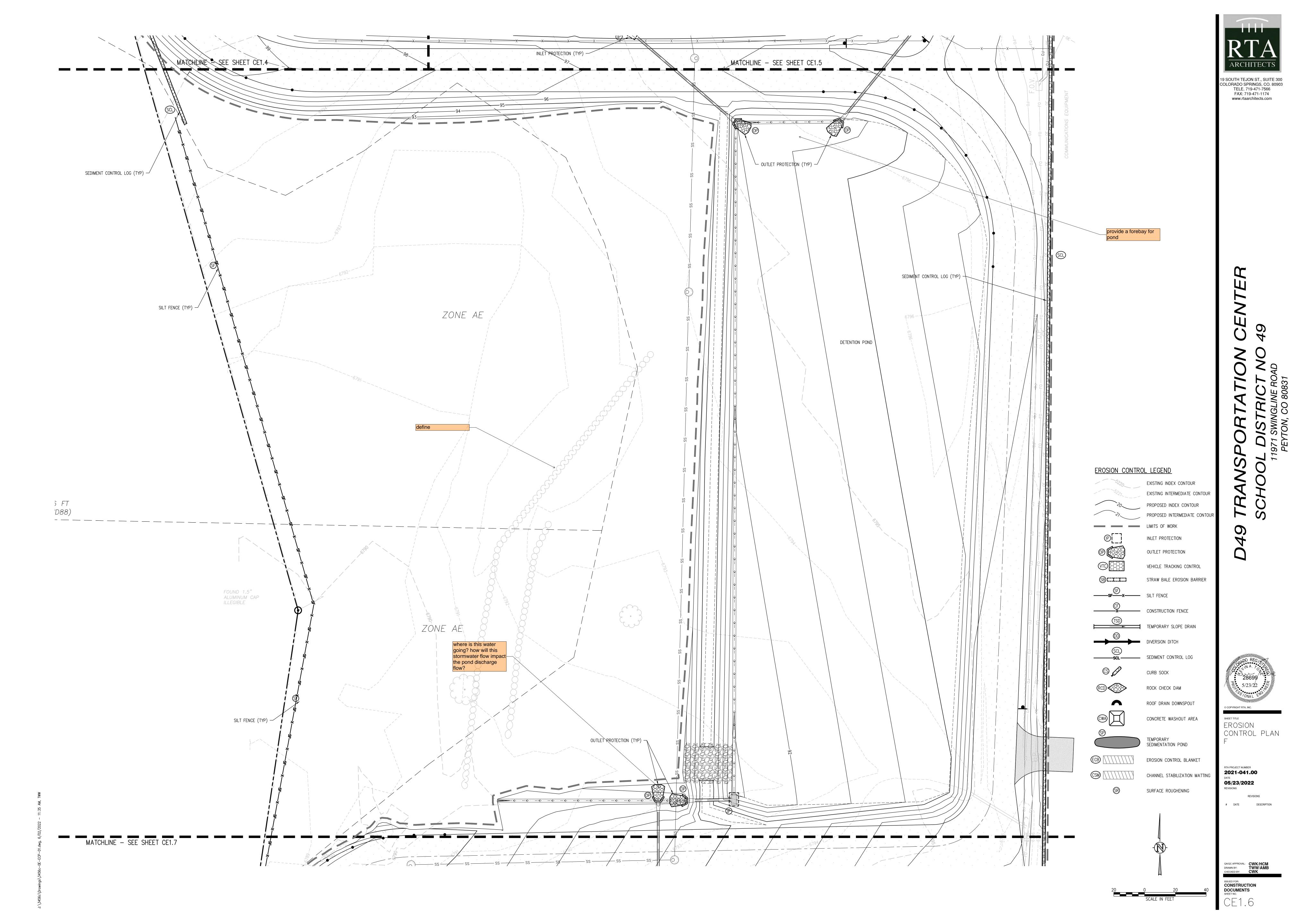
TEMPORARY SLOPE DRAIN

VEHICLE TRACKING CONTROL

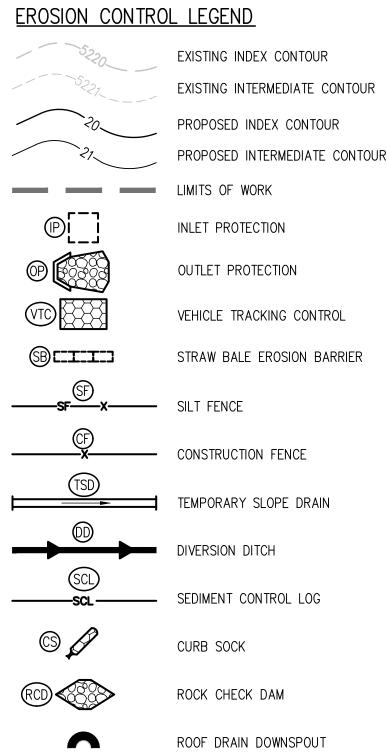
STRAW BALE EROSION BARRIER



EROSION CONTROL PLAN





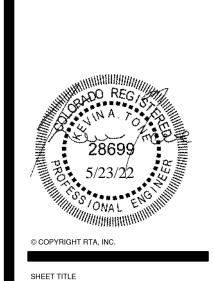


CONCRETE WASHOUT AREA

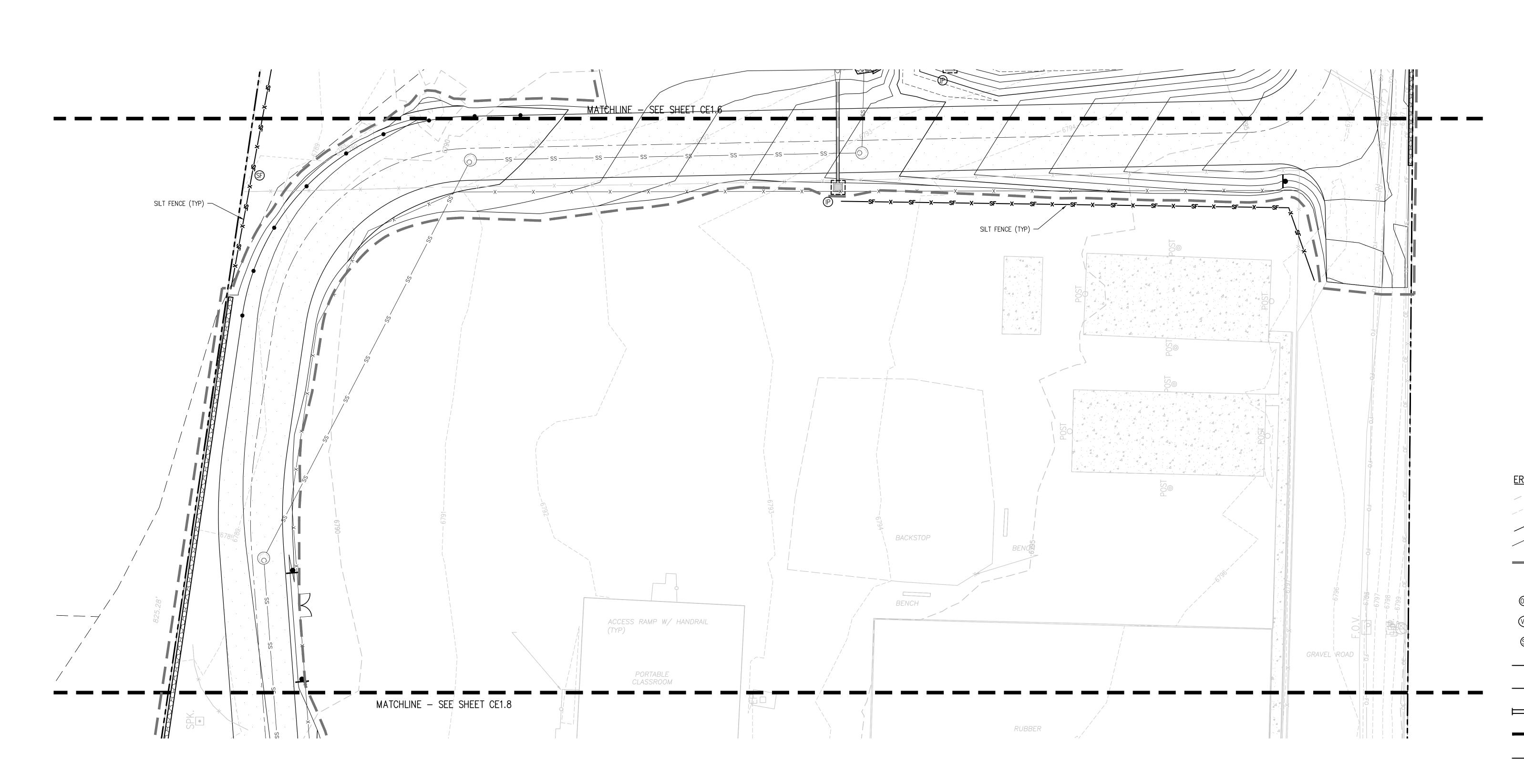
TEMPORARY
SEDIMENTATION POND

ECB This is a second control blanket

CSM CHANNEL STABILIZATION MATTING



EROSION CONTROL PLAN





D49 TRANSPORTATION CENTER SCHOOL DISTRICT NO 49



SHEET TITLE
EROSION
CONTROL PLAN

ROJECT NUMBER
21-041.00

RTA PROJECT NUMBER
2021-041.00
DATE
05/23/2022
REVISIONS
REVISIONS

A/QC APPROVAL: CWK/HCM
RAWN BY: TWW/AMB
HECKED BY: CWK

QAYQC APPROVAL:
DRAWN BY:
CHECKED BY:

ISSUED FOR:
CONSTRUCTION
DOCUMENTS
SHEET NO.

STORMWATER MANAGEMENT PLAN (SWMP)

THIS STORMWATER MANAGEMENT PLAN IS TO BE RETAINED AND MAINTAINED ONSITE INCLUDING FINAL LANDSCAPING PLANS AND ANY OTHER EROSION CONTROL DOCUMENTATION. A SWMP ADMINISTRATOR WILL BE DESIGNATED BY THE CONTRACTOR AND IS RESPONSIBLE FOR DEVELOPING, IMPLEMENTING, MAINTAINING, AND REVISING THIS SWMP. THE SWMP ADMINISTRATOR IS THE CONTACT FOR ALL SWMP-RELATED ISSUES AND IS RESPONSIBLE FOR ITS ACCURACY, COMPLETENESS, AND IMPLEMENTATION. THE FOLLOWING HAS BEEN DESIGNATED AS THE SWMP ADMINISTRATOR FOR THIS PROJECT:

THE SITE IS LOCATED AT 12050 FALCON HIGHWAY, FALCON, CO 80831, AND AT APPROXIMATELY 38°55'36.21"N LATITUDE, 104°36'10.29"W LONGITUDE. THE PROPOSED PROJECT CONSISTS OF DEMOLITION OF THE EXISTING RUNNING AND BASEBALL TRACKS, PARKING LOT ADJUSTMENTS, UTILITY SERVICE CONNECTIONS, OVERLOT GRADING, BUILDING CONSTRUCTION, STORMWATER INFRASTRUCTURE CONSTRUCTION, PAVING OF ADA PARKING LOTS, ENTRANCE DRIVES, AND UTILITY INFRASTRUCTURE CONSTRUCTION IN THE TOWN OF FALCON, CO. THE TOTAL SITE AREA IS APPROXIMATELY 30.42 ACRES. NO AREAS GREATER THAN 40 ACRES SHALL BE DISTURBED AT ANY GIVEN TIME. NO CONSTRUCTION ACTIVITIES SHALL OCCUR OFFSITE OR OUTSIDE OF THE CONSTRUCTION LIMITS SHOWN ON THE CONSTRUCTION DOCUMENTS. THE SEQUENCE OF CONSTRUCTION STARTS IS AS FOLLOWS:

<u>ESTIMATED</u> CONSTRUCTION START JUNE, 2022 ROAD AND OVERLOT GRADING JULY, 2022 UTILITY CONSTRUCTION JULY, 2022 BUILDING CONSTRUCTION AUGUST, 2022 PAVING JUNE, 2023 SITE RESTORATION AUGUST, 2023

THE EXISTING SITE CONSISTS OF DEVELOPED LAND AND IS APPROXIMATELY 60% COVERED WITH VEGETATIVE (GRASS, SHRUBS, TREES, PERMEABLE SOILS) GROUND COVER. THE ESTIMATED HISTORIC AND DEVELOPED RUNOFF COEFFICIENTS ARE 0.67 AND 0.69, RESPECTIVELY.

OFFSITE RUNOFF FLOWS ONTO THE PROPERTY ALONG THE ENTIRE NORTH SIDE AND ARE DIVERTED TO THE WEST BY SWALES RUNNING ALONG THE NORTH SIDE THE PROPERTY BOUNDARY. OFFSITE FLOWS CAUGHT BY THE SWALE ARE DIRECTED TOWARD A DRAINAGE EASEMENT RUNNING ALONG THE WEST SIDE OF THE SITE. THE HISTORIC CONDITION DOES NOT PROVIDE ONSITE DETENTION, BUT THE DEVELOPED CONDITION WILL PROVIDE ONSITE DETENTION. STORMWATER IS DISCHARGED FROM THIS SITE AT THE SOUTHWEST INTO THE EXISTING CREEK ALONG THE WESTERN BOUNDARY OF THE SITE THAT ULTIMATELY OUTFALLS TO THE BLACK SQUIRREL CREEK.

OTHER POTENTIAL POLLUTION SOURCES DO NOT EXIST AT THIS SITE. NON-STORMWATER COMPONENTS OF THE DISCHARGE DO NOT EXIST AT THIS SITE.

THE HYDROLOGIC SOIL GROUP AT THE SITE IS A.

BEST MANAGEMENT PRACTICES FOR STORMWATER MANAGEMENT

NON STRUCTURAL BMPS WILL BE IMPLEMENTED TO THE MAXIMUM EXTENT POSSIBLE. THE UTILIZATION OF NON STRUCTURAL BMPS WILL BE AN ONGOING PROCESS DIRECTED AT PREVENTING EROSION. THE NON STRUCTURAL BMPS WILL RECEIVE CONTINUOUS EMPHASIS THROUGHOUT CONSTRUCTION BECAUSE THEY AVERT PROBLEMS BEFORE THEY OCCUR AND REDUCE THE NEED FOR STRUCTURAL BMPS. NON STRUCTURAL BMPS WILL CONSIST PRIMARILY OF PRESERVATION OF EXISTING MATURE VEGETATION AND TREES, PLANNING AND SCHEDULING CONSTRUCTION ACTIVITIES AIMED AT ACHIEVING THE GOAL OF MINIMIZING EROSION. FURTHERMORE, CONSTRUCTION PERSONNEL WILL BE INSTRUCTED AND SUPERVISED IN CONSTRUCTION METHODS CONSISTENT WITH EROSION PREVENTION

PLANNED STRUCTURAL BMPS FOR EROSION AND SEDIMENT CONTROL ARE SHOWN ON THE EROSION AND SEDIMENTATION CONTROL PLAN. IMPLEMENTING THESE MEASURES SHOULD MINIMIZE NUISANCE SILT AND SEDIMENTATION EXITING THE SITE AND PREVENT CLOGGING EXISTING STORM SEWERS AND STREET GUTTERS. APPLICATION OF THESE BMPS FOR STORMWATER MANAGEMENT ARE FOR CONSTRUCTION PERIODS AND ARE CONSIDERED TEMPORARY. POST-DEVELOPMENT STORMWATER MANAGEMENT IS PROVIDED THROUGH VEGETATED LANDSCAPED AREAS, GRASSED SWALES, RIPRAP PROTECTION, STORM COLLECTION SYSTEM, AND THE UTILIZATION OF A PERMANENT DETENTION AND WATER QUALITY POND.

<u>VEHICLE TRACKING CONTROL (VTC):</u>

A STABILIZED CONSTRUCTION ENTRANCE WILL BE PROVIDED AT OCELOT TRAIL. THE CONSTRUCTION ACCESS AND PARKING WILL BE GRADED AND COVERED WITH A CRUSHED STONE BASE COURSE DURING CONSTRUCTION. THE VEHICLE TRACKING CONTROL WILL BE RELOCATED WITH THE CONSTRUCTION ACCESS AS

SILT FENCING (SF) AND SEDIMENT CONTROL LOGS (SCL):

SILT FENCING AND SEDIMENT CONTROL LOGS SHALL BE INSTALLED WITH RESPECT TO PROPOSED DRAINAGE PATTERNS. SILT FENCE AND SEDIMENT CONTROL LOGS SHALL BE CONSTRUCTED ALONG THE PORTIONS OF THE SOUTH, WEST AND EAST SIDES OF THE PROPERTY AND ALONG ANY DRAINAGE AREAS SUBJECT TO EROSION. THE SILT FENCING AND SEDIMENT CONTROL LOGS SHALL BE INSTALLED AT THE DOWNHILL SIDE OF THE EXISTING SLOPES ACROSS THE SITE AND AT ALL POINT DISCHARGE AREAS WHETHER SHOWN OR NOT, SILT FENCE AND SEDIMENT CONTROL LOGS SHALL BE MAINTAINED AS NEEDED THROUGHOUT THE CONSTRUCTION PROCESS. THE TEMPORARY SILT FENCE AND SEDIMENT CONTROL LOGS WILL REMAIN UNTIL THE STORM SEWER STRUCTURES ARE COMPLETED AND GROUND COVER IS EFFECTIVE.

THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. EACH INLET ON THE PROPOSED STORM SEWER SYSTEM WILL HAVE A TEMPORARY INLET SEDIMENT TRAP CONSTRUCTED AROUND IT. IN PAVED AREAS, THIS TRAP CONSISTS OF WIRE MESH SOCKS, CONCRETE BLOCKS, AND/OR SCREENS TO FILTER THE STORM RUNOFF AND ALLOW ANY SILT TO SETTLE OUT. IN FIELDS OR LANDSCAPED AREAS THIS TRAP CONSISTS OF WIRE MESH SOCKS AND STRAW BALE BARRIERS.

STRAW BALE DROP STRUCTURES DAMS (SB):

STRAW BALE BARRIERS WILL BE INSTALLED TO PROTECT THE PROPOSED SWALE(S) PRIOR TO LANDSCAPING THE SITE. THESE BARRIERS WILL REDUCE THE FLOW VELOCITY IN THE SWALE(S) AND ALLOW THE DISTURBED SOIL TO SETTLE OUT.

ROCK CHECK DAMS (RCD):

ROCK CHECK DAMS WILL BE INSTALLED AS SHOWN AND MAINTAINED AT LOCATIONS AROUND THE SITE WHERE FUTURE GRASS LINES SWALES WILL CARRY THE STORM RUNOFF. PRIOR TO LANDSCAPING OF THE SITE, THESE BARRIERS WILL REDUCE THE FLOW VELOCITIES IN THESE SWALES AND ALLOW THE DISTURBED SOIL TO SETTLE OUT. THE ROCK CHECK DAMS WILL BE LEFT IN PLACE AS PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN.

OUTLET PROTECTION (OP):

THE STORM SEWER OUTLETS WILL BE PROTECTED WITH RIPRAP. PLACING RIPRAP AT PIPE OUTFALLS REDUCES EXIT VELOCITIES AND REDUCES SCOUR. THIS RIPRAP WILL BE LEFT IN PLACE AS PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN.

ALL OPEN AREAS WILL BE TREATED WITHIN 14 DAYS OF COMPLETION OF THE OVERLOT GRADING. ALL OVERLOT GRADING IN THE NON-IRRIGATED AREAS WILL HAVE THE SURFACE ROUGHENED AND WILL BE PERMANENTLY LANDSCAPED OR TEMPORARILY SEEDED UNTIL THE PLANNED INSTALLATIONS ARE COMPLETED. AT THE COMPLETION OF THE MASS GRADING, ALL EXPOSED SOIL AREAS WILL HAVE THE SURFACE ROUGHENED AND PLANTED WITH A REVEGETATION SEED MIX. VEGETATION IS TO BE MAINTAINED THROUGHOUT CONSTRUCTION BY THE CONTRACTOR UNTIL AREAS ARE PERMANENTLY LANDSCAPED. ALTERNATELY, ROUGH-CUT DRIVEWAYS OR PROPOSED PAVED AREAS CAN BE COVERED WITH A LAYER OF AGGREGATE, ROAD BASE OR ASPHALT PAVING.

DISTURBED AREAS NOT YET READY TO BE SEEDED, LANDSCAPES, PAVED, OR OTHERWISE STABILIZED SHALL BE WATERED, OR RIPPED AS NECESSARY TO PRECLUDE VISIBLE DUST EMISSIONS.

ITEMS ARE SCHEDULED TO BE IMPLEMENTED ACCORDING TO THE CONSTRUCTION SCHEDULE. AS WORK PROCEEDS, IMPLEMENTATION OF INDIVIDUAL BMPS IS TO COINCIDE WITH THE CONSTRUCTION THEREBY MINIMIZING THE EXPOSURE OF UNPROTECTED AREAS. THE SILT FENCE, INLET PROTECTION (FOR EXISTING INLETS). AND GRAVELING OF THE CONSTRUCTION ENTRANCE WILL BE PERFORMED WHEN THE GRADING BEGINS. THE INLET PROTECTION WILL BE INSTALLED AS THE STORM SEWER STRUCTURES ARE CONSTRUCTED. THE RIPRAP PROTECTION WILL BE INSTALLED AS THE STORM SEWER OUTFALLS OR CULVERTS ARE CONSTRUCTED. THE STRUCTURAL BMPS THAT DO NOT BECOME PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN ARE TO BE REMOVED, AS THE PAVING, LANDSCAPING, AND OTHER PERMANENT GROUNDCOVER INSTALLATIONS ARE COMPLETED. FUGITIVE DUST EMISSIONS RESULTING FROM GRADING ACTIVITIES AND/OR WIND SHALL BE CONTROLLED USING THE BEST AVAILABLE CONTROL TECHNOLOGY AS DEFINED BY THE COLORADO DEPARTMENT OF HEALTH AT THE TIME OF GRADING. THE GRAVELING IS TO BE MAINTAINED AND EXTENDED CONSTRUCTION PROGRESSES ESPECIALLY AROUND THE BUILDING SITE. THE STRUCTURAL BMPS ARE TO BE REMOVED, AS THE PERMANENT LANDSCAPING INSTALLATIONS ARE COMPLETED.

THE EROSION AND SEDIMENT CONTROL PLAN MAY BE MODIFIED BY THE SCHOOL DISTRICT 49, EL PASO COUNTY, DEPARTMENT OF HIGHWAYS AND TRANSPORTATION, OWNER'S ENGINEER, COUNTY ENGINEERING INSPECTORS, OR ITS AUTHORIZED REPRESENTATIVE AS FIELD CONDITIONS WARRANT.

STORMWATER DETENTION AND WATER QUALITY:

STORMWATER DETENTION IS PROVIDED ONSITE. WATER QUALITY TREATMENT IS PROVIDED BY USE OF A WATER QUALITY CAPTURE VOLUME PER MILE HIGH FLOOD DISTRICT RECOMMENDATIONS ONSITE. AS PART OF THE CONSTRUCTION PHASE A TEMPORARY SEDIMENT BASIN IS PROPOSED, SEE EROSION CONTROL PLAN LAYOUT FOR THE LOCATION OF THE TEMPORARY SEDIMENT BASIN.

TEMPORARY SEEDING AND MULCHING:

ALL SEEDS FURNISHED SHALL BE FREE FROM NOXIOUS SEEDS (SUCH AS RUSSIAN OR CANADIAN THISTLE, COURSE FESCUE, EUROPEAN BINDWEED, JOHNSON GRASS, KNAPWEED, AND LEAFY SPURGE). THE FORMULA USED FOR DETERMINING THE QUALITY OF PURE LIVE SEED (PLS) SHALL BE (POUNDS OF SEED) X (PURITY) X (GERMINATION) = POUNDS OF PURE LIVE SEED (PLS). SEEDING RECOMMENDATIONS ARE PROVIDED BELOW, BUT MAY BE MODIFIED WITH THE OWNER'S APPROVAL TO MAKE THE BEST USE OF EXISTING CLEARINGS AND GRUBBINGS:

SPECIES	COMMON NAME	VARIETY	LBS/A
AGROPYRON SMITHI	WESTERN WHEATGRASS	ARRIBA	8.0
ARRHENATHERUM ELATES	TALL OATGRASS		3.0
LOLIUM PERENNE	PERENNIAL RYEGRASS	PENNFINE	2.0

ALL SEEDS SHALL BE DRILLED NOT HYDROSEEDED. ALL DISTURBED AREAS SHALL BE SEEDED AND CRIMP MULCHED IF PERMANENT VEGETATION IS NOT IMMEDIATELY INSTALLED. AFTER SEEDING HAS BEEN COMPLETED, A RATE OF 4,000 LBS. OF STRAW PER ACRE SHALL BE APPLIED UNIFORMLY, CRIMPED IN WITH A CRIMPER OR OTHER APPROVED EQUIPMENT OR OTHERWISE ATTACHED. A TACKIFIER OR JUTE NETTING TO ATTACH MULCH MAY BE USED WITH THE OWNER'S APPROVAL. THE SEEDED AREA SHALL BE CRIMPED MULCHED AND THE MULCH ATTACHED WITHIN TWENTY-FOUR (24) HOURS AFTER SEEDING. AREAS NOT MULCHED AND ATTACHED WITHIN TWENTY-FOUR (24) HOURS AFTER SEEDING MUST BE RESEEDED WITH THE SPECIFIED MIX AT THE CONTRACTOR'S EXPENSE, PRIOR TO MULCHING AND ATTACHING. ON STEEP SLOPES OR OTHER SPECIFIED AREAS AS SHOWN ON THE PLANTING PLAN, WHICH ARE DIFFICULT TO MULCH AND ATTACH BY CONVENTIONAL METHOD, BURLAP OR OTHER BLANKETING MATERIALS PROPERLY ANCHORED AND SECURED MAY BE USED WHEN APPROVED BY THE COUNTY ENGINEER.

PERMANENT STABILIZATION MEASURES: RIPRAP FOR STORM DRAIN OUTFALLS WILL BECOME PART OF THE PERMANENT STORMWATER MANAGEMENT PLAN AND WILL NOT BE REMOVED. PERMANENT LANDSCAPING WILL INCLUDE SODDING AND SEEDING IN OPEN AREAS, SHRUBS, OR OTHER VEGETATIVE COVER IN OPEN AREAS, AND LANDSCPAPING FEATURES IDENTIFIED BY THE LANDSCAPE ARCHITECT. NATIVE PERENNIAL SEEDING WILL BE ESTABLISHED IN NON-IRRIGATED AREAS AND SOD OR OTHER VEGETATIVE COVER WILL BE ESTABLISHED IN IRRIGATED OPEN AREAS. ALL PERMANENT STABILIZATION MEASURES WILL BE SPECIFIED BY THE LANDSCAPE ARCHITECT OR

MATERIALS AND SPILL PREVENTION:

THE CONTRACTOR WILL STORE CONSTRUCTION MATERIALS AND EQUIPMENT IN CONFINED AREAS ON SITE FROM WHICH RUNOFF WILL BE CONTAINED AND FILTERED. MATERIALS WILL BE STORED OFF THE GROUND AND PROTECTED FROM THE WEATHER BY A COVER OR STORED IN A CONTAINER SUCH AS A VAN OR TRAILER. AN EARTHEN DIKE WILL BE CONSTRUCTED AROUND THE PERIMETER OF THE FUEL STORAGE AREA TO PREVENT MATERIALS FROM CONTACT WITH SURFACE RUNOFF. EQUIPMENT MAINTENANCE WILL BE PERFORMED IN A DESIGNATED AREA AND STANDARD MAINTENANCE PROCEDURES, SUCH AS THE USE OF DRIP PANS, WILL BE USED TO CONTAIN PETROLEUM PRODUCTS.

THE EROSION CONTROL MEASURES WILL BE INSPECTED DAILY DURING CONSTRUCTION BY THE CONTRACTOR AND AFTER EACH RAIN EVENT. ALL INSPECTIONS SHALL BE DOCUMENTED AND SHALL INCLUDE THE DATE OF INSPECTION, ANY INCIDENCE OF NON-COMPLIANCE, SIGNED CERTIFICATION THAT THE SITE IS IN COMPLIANCE, AND ANY NOTES, DRAWINGS, MAPS, ETC. PERTAINING TO REPAIRS. COPIES OF ALL DOCUMENTATION SHALL BE DISTRIBUTED TO MUNICIPALITIES AND OWNER ON A REGULAR BASIS AS SPECIFIED BY OWNER. SILT FENCE AND STRAW BALE BARRIERS WILL BE CHECKED FOR UNDERMINING AND BYPASS AND REPAIRED OR EXPANDED AS NEEDED. SEDIMENT SHOULD BE REMOVED FROM INLET FILTERS AND SILT FENCING BEFORE ONE HALF OF THE DESIGN DEPTH HAS BEEN FILLED. SEDIMENTS DEPOSITED IN THE PUBLIC RIGHTS-OF-WAY WILL BE REMOVED IMMEDIATELY. THE TEMPORARY VEGETATION OF BARE SOILS WILL BE CHECKED REGULARLY AND AREAS WHERE IT IS LOST OR DAMAGED WILL BE RESEEDED. AT MINIMUM THE CONTRACTOR OR HIS AGENT SHALL INSPECT ALL BMPS EVERY 14 DAYS AND AFTER SIGNIFICANT PRECIPITATION OR SNOWMELT EVENTS. INSTALLATIONS AND MODIFICATIONS AS REQUIRED BY THE STATE OF COLORADO, AND EL PASO COUNTY WILL BE IMPLEMENTED WITHIN 48 HOURS OF NOTIFICATION. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.

FINAL STABILIZATION AND LONG-TERM STORMWATER QUALITY: FINAL STABILIZATION IS REACHED WHEN ALL SOIL DISTURBING ACTIVITIES AT THE SITE HAVE BEEN COMPLETED, AND UNIFORM VEGETATIVE COVER HAS BEEN ESTABLISHED WITH A DENSITY OF AT LEAST 70% OR PRE-DISTURBANCE LEVELS OR EQUIVALENT PERMANENT, PHYSICAL EROSION REDUCTION METHODS HAVE BEEN EMPLOYED. FINAL STABILIZATION WILL BE ACHIEVED USING SOD, NATIVE SEEDING, PERMANENT BMP'S, AND OTHER METHODS. CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL STABILIZATION REGARDLESS OF ACCEPTANCE BY OWNER OF THE CONTRACTOR ITEM.

SCHOOL DISTRICT 49 NOTES:

STANDARD STORMWATER MANAGEMENT PRACTICES REQURED BY THE DISTRICT, OR LOCAL JURISDICTION, SHALL NOT BE CONSTRUED AS A CHANGE IN CONDITION, AND MUST BE BUDGETED AS PART OF THE OVERALL CONTRACT BID. IN NO CIRCUMSTANCES SHALL STORMWATER MANAGEMENT CONTROL MEASURE INSTALLATION, INSPECTION, OR MAINTENANCE BE CONSIDERED A CHANGE IN CONDITION. THE CONTRACTOR WILL NEED TO PROVE EXTENUATING CIRCUMSTANCES TO CLAIM STORMWATER MANAGEMENT AS A CHANGE IN CONDITION.

THE DISTRICT REQUIRES THAT THE INSPECTION FREQUENCY OCCUR EVERY 7 DAYS. THE DISTRICT DOES NOT ALLOW INSPECTION FREQUENCIES TO OCCUR EVERY 14 DAYS WITH POST-STORM INSPECTIONS.

SCHOOL DISTRICT 49 REQUESTS THAT ALL CORRESPONDENCE REQUIRED FOR STORMWATER COMPLIANCE MEASURES, INCLUDING INSPECTION REPORTS, BE FORWARDED TO THEM FOR REVIEW.

THE SITE WILL NOT BE RELEASED UNTIL ACCEPTABLE 70% FINAL STABILIZATION IS ACHIEVED.

PERMIT REQUIREMENTS:

CONTRACTOR IS RESPONSIBLE FOR COMPLYING WITH ALL PERMIT REQUIREMENTS. PERMIT REQUIREMENTS INCLUDE, BUT ARE NOT LIMITED TO. THE FOLLOWING: ESTABLISH THE PERMITTED AREA WITH ENOUGH ROOM TO WORK AND STAGE CONTRUCTION MATERIAL. STORING CONSTRUCTION MATERIALS OUTSIDE OF PERMITTED AREAS CAN RESULT IN AN OFF-SITE DISCHARGE FINDING. A STORMWATER MANAGEMENT PLAN (SWMP) MUST BE DEVELOPED AND REFLECT CURRENT CONDITIONS. CONTROL MEASURES MUST BE MAINTAINED IN OPERATIONAL CONDITION. DETAILS OF ALL CONTROL MEASURES MUST BE DOCUMENTED

AND UPDATED AS NEEDED. REQUIREMENTS OF THE PERMIT MUST BE IMPLEMENTED AND MAINTAINED UNTIL 70% STABILIZATION IS ACHIEVED.

NON-STANDARD MS4 PERMIT REQUIREMENTS:

IF THE SITE FALLS OUT OF COMPLIANCE WITH EITHER THE CONSTRUCTION PERMIT OR NON-STANDARD MS4 REQUIREMENTS, THE FREQUENCY OF INSPECTIONS WILL ESCALATE UNTIL COMPLIANCE IS ACHIEVED. IF NON-COMPLIANCE CONTINUES, RETENTION OF PAYMENT MAY RESULT. ANY FINES RESULTING FROM NON-COMPLIANT CONSTRUCTION STORMWATER MANAGEMENT ARE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.

TEMPORARY OUTLET PROTECTION INSPECTION AND MAINTENANCE NOTES

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE.

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY.

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

(DETAILS ADAPTED FROM AURORA, COLORADO AND PREVIOUS VERSION OF VOLUME 3, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFOD STANDARD DETAILS, CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.







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TEMPORARY OUTLET PROTECTION PLAN

SECTION A

TABLE OP-1. TEMPORARY DUTLET PROTECTION SIZING TABLE

OP-1. TEMPORARY OUTLET PROTECTION

PIPE DIAMETER, DISCHARGE, Q (CFS) APRON LENGTH, La (FT)

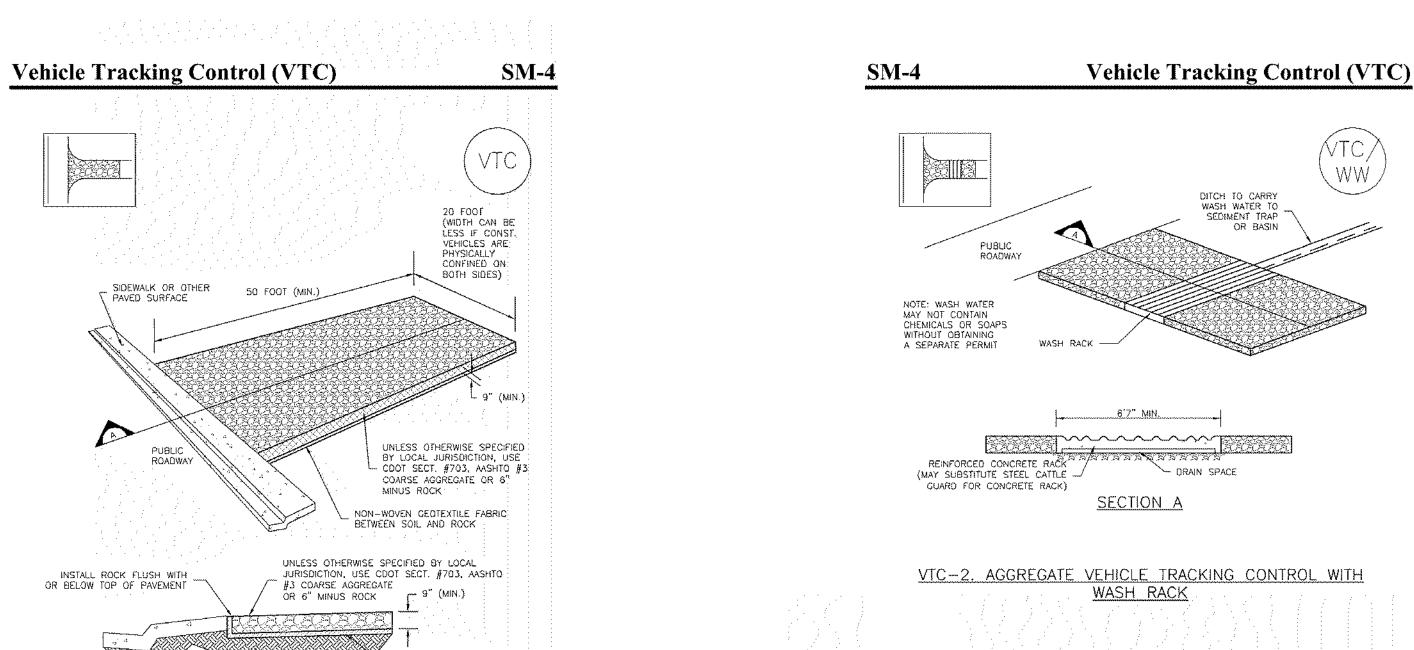
KEY IN TO 2 x 050:

AROUND PERIMETER

NON-WOVEN 🦯

CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS



NON-WOVEN GEOTEXTILE

VTC-3

COMPACTED SUBGRADE -

Concrete Washout Area (CWA)

November 2010

SECTION A

VTC-1. AGGREGATE VEHICLE TRACKING CONTROL

Urban Drainage and Flood Control District

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CONCRETE WASHOUT AREA PLAN

8 X 8 MiN.

CWA-1. CONCRETE WASHOUT AREA

2. DO NOT LOCATE AN UNLINED CWA WITHIN 400' OF ANY NATURAL DRAINAGE PATHWAY OR

WATERBODY, DO NOT LOCATE WITHIN 1,000' OF ANY WELLS OR DRINKING WATER SOURCES. II SITE CONSTRAINTS MAKE THIS INFEASIBLE, OR IF HIGHLY PERMEABLE SOILS EXIST ON SITE.

THE CWA MUST BE INSTALLED WITH AN IMPERMEABLE LINER (16 MIL MIN. THICKNESS) OR

4. CWA SHALL INCLUDE A FLAT SUBSURFACE PIT THAT IS AT LEAST 8' BY 8' SLOPES LEADING OUT OF THE SUBSURFACE PIT SHALL BE 3:1 OR FLATTER. THE PIT SHALL BE AT

5. BERM SURROUNDING SIDES AND BACK OF THE CWA SHALL HAVE MINIMUM HEIGHT OF 1'.

7. SIGNS SHALL BE PLACED AT THE CONSTRUCTION ENTRANCE, AT THE CWA, AND ELSEWHERE AS NECESSARY TO CLEARLY INDICATE THE LOCATION OF THE CWA TO OPERATORS

3. THE CWA SHALL BE INSTALLED PRIOR TO CONCRETE PLACEMENT ON SITE.

6. VEHICLE TRACKING PAD SHALL BE SLOPED 2% TOWARDS THE CWA.

8. USE EXCAVATED MATERIAL FOR PERIMETER BERM CONSTRUCTION.

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TRENCH FOR STRAW BALE

SBB-1. STRAW BALE

CONTROL (SEE VTC -

Straw Bale Barrier (SBB)

EXCAVATED TRENCH SOIL

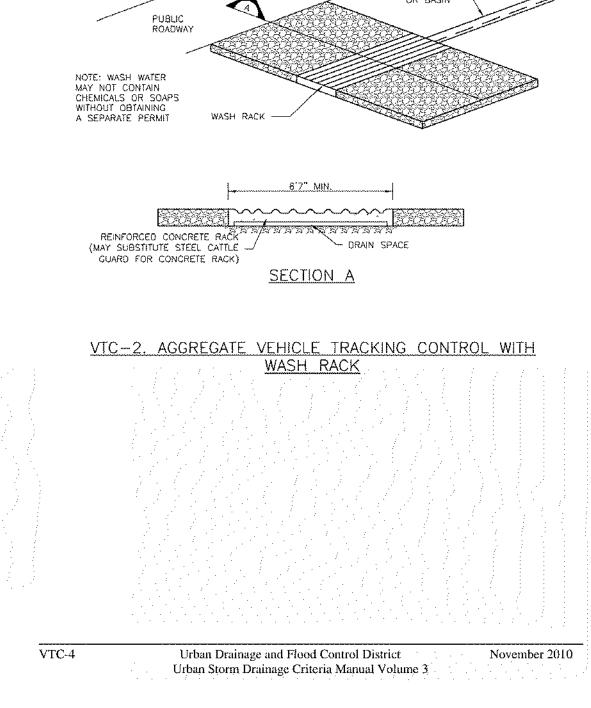
CWA-3

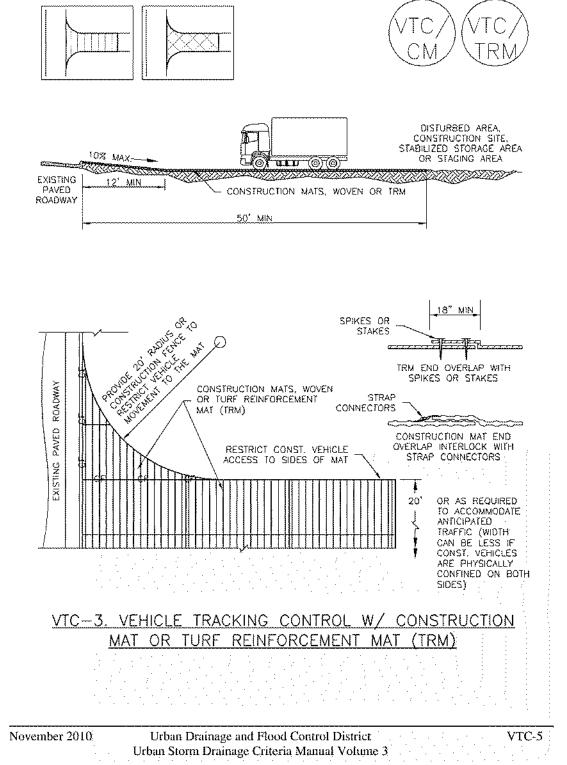
COMPACTED BERM AROUND

CWA INSTALLATION NOTES

-CWA INSTALLATION LOCATION.

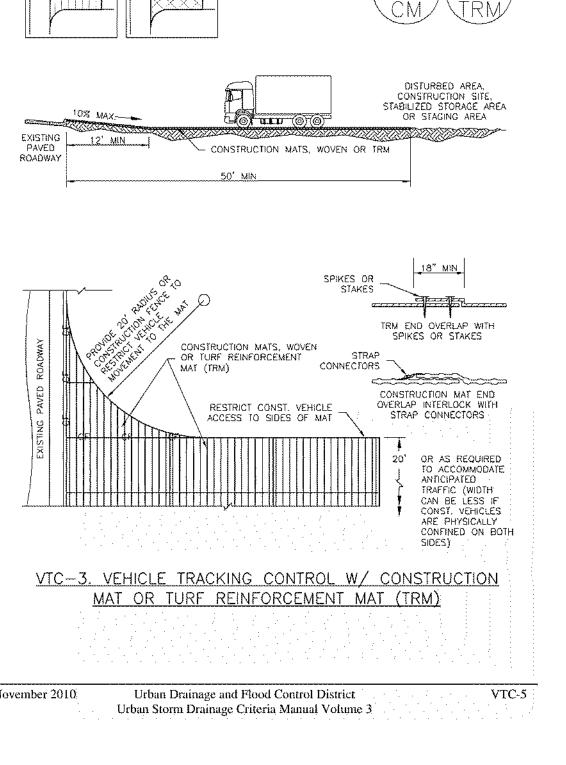
LINED ABOVE GROUND STORAGE ARE SHOULD BE USED.





Vehicle Tracking Control (VTC)

Silt Fence (SF)



SM-4

SM-4

Vehicle Tracking Control (VTC)

STABILIZED CONSTRUCTION ENTRANCE/EXIT INSTALLATION NOTES

-LOCATION OF CONSTRUCTION ENTRANCE(S)/EXIT(S).
-TYPE OF CONSTRUCTION ENTRANCE(S)/EXITS(S) (WITH/WITHOUT WHEEL WASH,

2. CONSTRUCTION MAT OR TRM STABILIZED CONSTRUCTION ENTRANCES ARE ONLY TO BE USED ON SHORT DURATION PROJECTS (TYPICALLY RANGING FROM A WEEK TO A MONTH)

3. A STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE LOCATED AT ALL ACCESS POINTS WHERE VEHICLES ACCESS THE CONSTRUCTION SITE FROM PAVED RICHT-OF-WAYS.

4. STABILIZED CONSTRUCTION ENTRANCE/EXIT SHALL BE INSTALLED PRIOR TO ANY LAND

6. UNLESS OTHERWISE SPECIFIED BY LOCAL JURISDICTION, ROCK SHALL CONSIST OF DOT

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE DOCUMENTED THOROUGHLY:

J. WHERE BMP'S HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE.

5. SEDIMENT TRACKED ONTO PAVED ROADS IS TO BE REMOVED THROUGHOUT THE DAY AND

NOTE: MANY JURISDICTIONS HAVE SMP DETAILS THAT VARY FROM UDFOD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

AT THE END OF THE DAY BY SHOVELING OR SWEEPING, SEDIMENT MAY NOT BE WASHED DOWN STORM SEWER DRAINS.

4. ROCK SHALL BE REAPPLIED OR REGRADED AS NECESSARY TO THE STABILIZED

Urban Drainage and Flood Control District

SILT_EENCE_INSTALLATION_NOTES

SILT FENCE MAINTENANCE NOTES

DOCUMENTED THOROUGHLY:

SEDIMENTS IS APPROXIMATELY 6".

TEARING, OR COLLAPSE.

DIFFERENCES ARE NOTED:

Rock Sock (RS)

EROSION, AND PERFORM NECESSARY MAINTENANCE.

PONDING AND DEPOSITION.

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1. SILT FENCE MUST BE PLACED AWAY FROM THE TOE OF THE SLOPE TO ALLOW FOR WATER PONDING, SILT FENCE AT THE TOE OF A SLOPE SHOULD BE INSTALLED IN A FLAT LOCATION

AT LEAST SEVERAL FEET (2-5 FT) FROM THE TOE OF THE SLOPE TO ALLOW ROOM FOR

2. A UNIFORM 6" X 4" ANCHOR TRENCH SHALL BE EXCAVATED USING TRENCHER OR SILT

3. COMPACT ANCHOR TRENCH BY HAND WITH A "JUMPING JACK" OR BY WHEEL ROLLING. COMPACTION SHALL BE SUCH THAT SILT FENCE RESISTS BEING PULLED OUT OF ANCHOR TRENCH BY HAND:

4. SILT FENCE SHALL BE PULLED TIGHT AS IT IS ANCHORED TO THE STAKES. THERE SHOULD BE NO NOTICEABLE SAG BETWEEN STAKES AFTER IT HAS BEEN ANCHORED TO THE STAKES.

5. SILT FENCE FABRIC SHALL BE ANCHORED TO THE STAKES USING 1" HEAVY DUTY STAPLES

OR NAILS WITH 1" HEADS, STAPLES AND NAILS SHOULD BE PLACED 3" ALONG THE FABRIC

6. AT THE END OF A RUN OF SILT FENCE ALONG A CONTOUR, THE SILT FENCE SHOULD BE TURNED PERPENDICULAR TO THE CONTOUR TO CREATE A "J-HOOK." THE "J-HOOK" EXTENDING PERPENDICULAR TO THE CONTOUR SHOULD BE OF SUFFICIENT LENGTH TO KEEP

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION.
MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS

POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. SEDIMENT ACCUMULATED UPSTREAM OF THE SILT FENCE SHALL BE REMOVED AS NEEDED TO MAINTAIN THE FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED

5. REPAIR OR REPLACE SILT FENCE WHEN THERE ARE SIGNS OF WEAR, SUCH AS SAGGING,

6. SILT FENCE IS TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION, OR IS REPLACED BY AN EQUIVALENT PERIMETER

7. WHEN SILT FENCE IS REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

NOTE: MANY JURISDICTIONS HAVE 8MP DETAILS THAT VARY FROM UDFOD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN

(DETAIL ADAPTED FROM TOWN OF PARKER, COLORADO AND CITY OF AURORA, NOT AVAILABLE IN AUTOCAD)

Urban Drainage and Flood Control District

Urban Storm Drainage Criteria Manual Volume 3

1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE. INSPECT BMPs AS SOON AS

POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE

2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPS IN EFFECTIVE OPERATING CONDITION. INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE

3. WHERE BMPs HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON

4. ROCK SOCKS SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, OR DAMAGED

6. ROCK SOCKS ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS STABILIZED AND APPROVED BY THE LOCAL JURISDICTION.

7. WHEN ROCK SOCKS. ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION.

(DETAIL ADAPTED FROM FOWN OF PARKER, COLORADO AND CITY OF AURORA, COLORADO, NOT AVAILABLE IN AUTOCAD)

NOTE: MANY JURISDICTIONS HAVE 8MP DETAILS THAT VARY FROM UDFCD STANDARD DETAILS CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN . DIFFERENCES ARE NOTED.

NOTE: THE DETAILS INCLUDED WITH THIS FACT SHEET SHOW COMMONLY USED, CONVENTIONAL

MOTE THE DETAILS INCODED WITH THIS FACT SHEW SHOW COMMONET USED, CONVENTIONAL METHODS OF ROCK SOCK INSTALLATION IN THE DERVER METROPOLITAN AREA. THERE ARE MANY OTHER SIMILAR PROPRIETARY PRODUCTS ON THE MARKET, UDFOD NEITHER NDORSES NOR DISCOURAGES USE OF PROPRIETARY PROTECTION PRODUCTS; HOWEVER, IN THE EVENT PROPRIETARY METHODS ARE USED, THE APPROPRIATE DETAIL FROM THE MANUFACTURER MUST

BE INCLUBED IN THE SWMP AND THE BMP MUST BE INSTALLED AND MAINTAINED AS SHOWN

5. SEDIMENT ACCUMULATED UPSTREAM OF ROCK SOCKS SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE BMP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS

EROSION, AND PERFORM NECESSARY MAINTENANCE.

IS APPROXIMATELY & OF THE HEIGHT OF THE ROCK SOCK.

IN THE MANUFACTURER'S DETAILS.

RUNGFF FROM FLOWING AROUND THE END OF THE SILT FENCE (TYPICALLY 10' - 20').

7. SILT FENCE SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.

FENCE INSTALLATION DEVICE, NO ROAD GRADERS, BACKHOES, OR SIMILAR EQUIPMENT SHALL BE USED.

November 2010

November 2010

Silt Fence (SF)

(DETAILS ADAPTED FROM CITY OF BROGMFIELD, COLORADO, NOT AVAILABLE IN AUTOCAD)

5. A NON-WOVEN GEOTEXTILE FABRIC SHALL BE PLACED UNDER THE STABILIZED

CONSTRUCTION ENTRANCE/EXIT PRIOR TO THE PLACEMENT OF ROCK.

SECT. #703. AASHTO #3 COARSE AGGREGATE OR 6" (MINUS) ROCK.

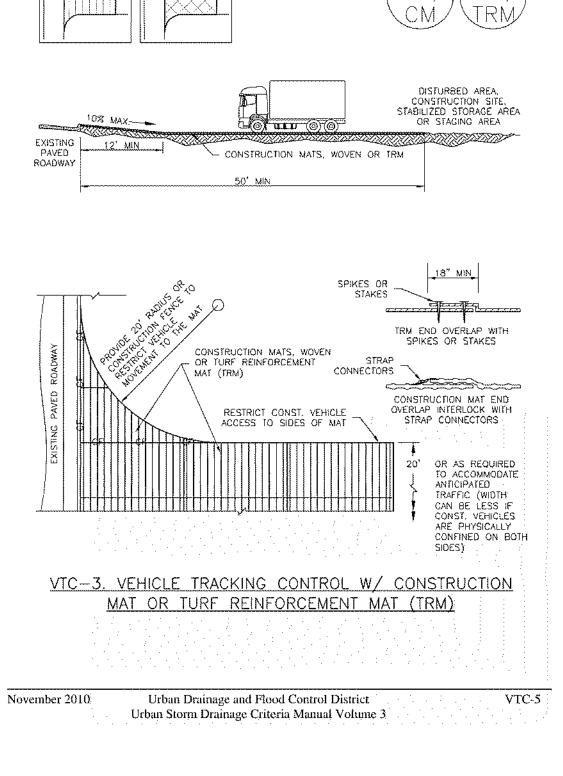
STABILIZED CONSTRUCTION ENTRANCE/EXIT MAINTENANCE NOTES

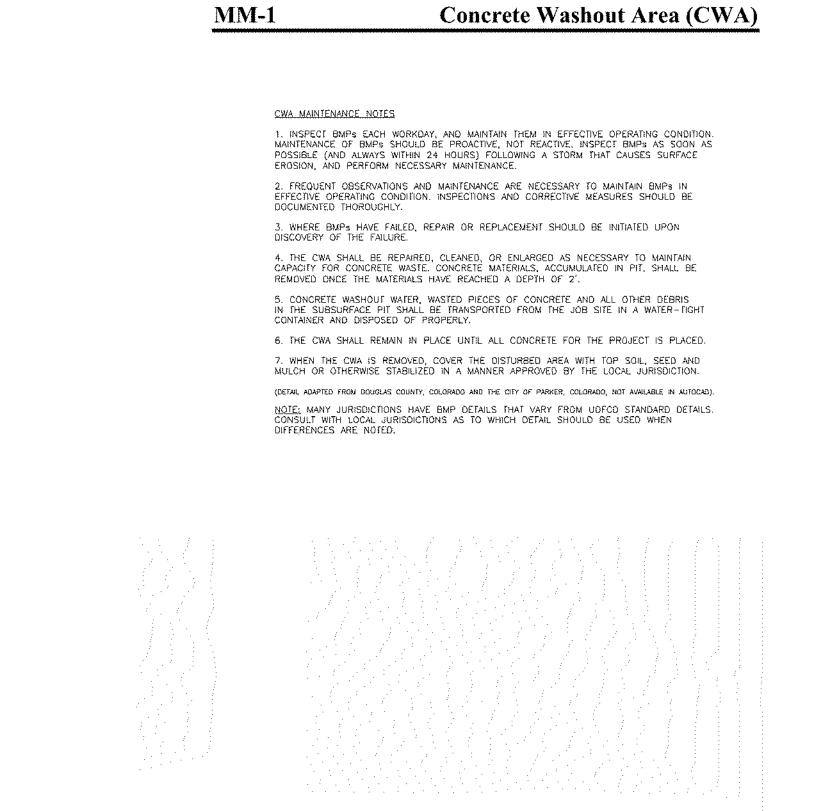
EROSION, AND PERFORM NECESSARY MAINTENANCE.

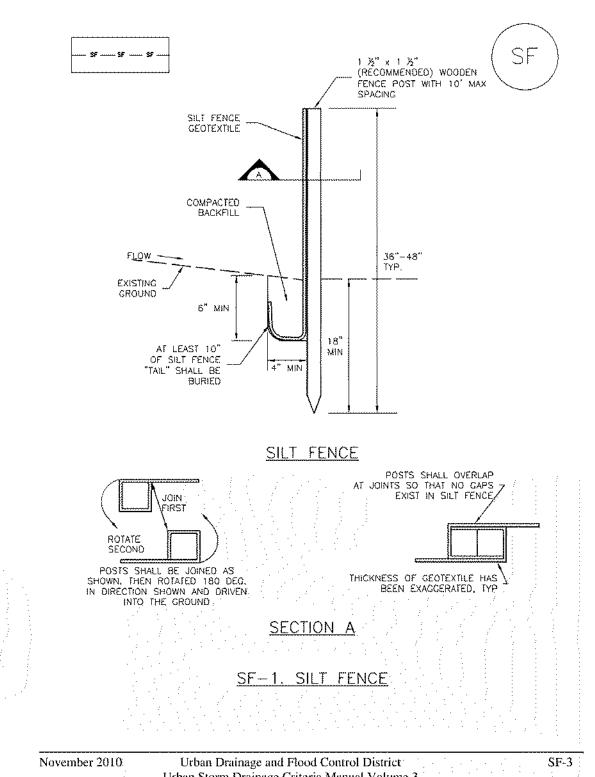
1. SEE PLAN VIEW FOR

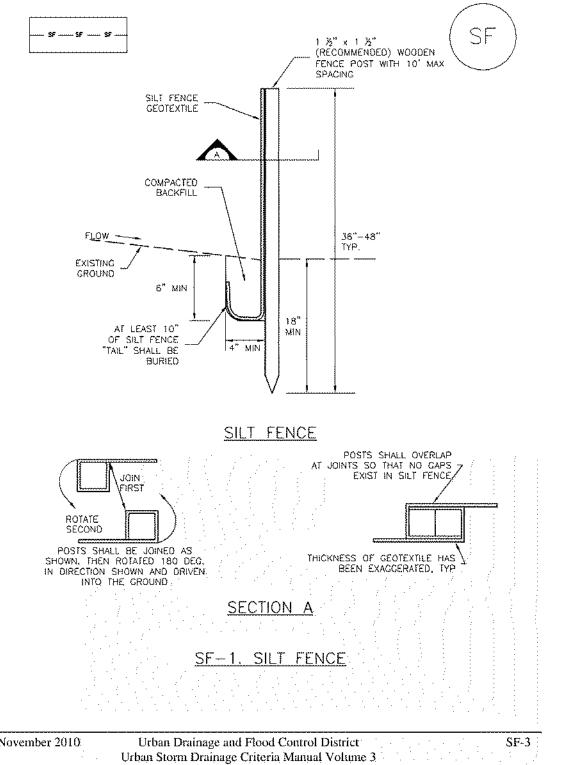
CONSTRUCTION MAT OR TRM).

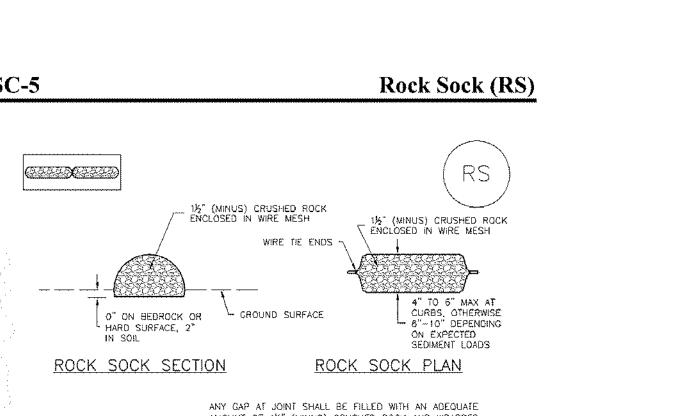
WHERE THERE WILL BE LIMITED VEHICULAR ACCESS.











STRAW BALE INSTALLATION MOTES 1. SEE PLAN VIEW FOR: -LOCATION(S) OF STRAW BALES. 2. STRAW BALES SHALL CONSIST OF CERTIFIED WEED FREE STRAW OR HAY, LOCAL JURISDICTIONS MAY REQUIRE PROOF THAT BALES ARE WEED FREE. 3. STRAW BALES SHALL CONSIST OF APPROXIMATELY 5 CUBIC FEET OF STRAW OR HAY AND 4. WHEN STRAW BALES ARE USED IN SERIES AS A BARRIER, THE END OF EACH BALE SHALL BE FIGHTLY ABUTTING ONE ANOTHER. 5. STRAW BALE DIMENSIONS SHALL BE APPROXIMATELY 36"X18"X18". 8. A UNIFORM ANCHOR TRENCH SHALL BE EXCAVATED TO A DEPTH OF 4". STRAW BALES SHALL BE PLACED SO THAT BINDING TWINE IS ENCOMPASSING THE VERTICAL SIDES OF THE BALE(S). ALL EXCAVATED SOIL SHALL BE PLACED ON THE UPHILL SIDE OF THE STRAW BALE(S) 7. TWO (2) WOODEN STAKES SHALL BE USED TO HOLD EACH BALE IN PLACE, WOODEN STAKES SHALL BE 2"X2"X24". WOODEN STAKES SHALL BE DRIVEN 6" INTO THE GROUND. 1. INSPECT BMPs EACH WORKDAY, AND MAINTAIN THEM IN EFFECTIVE OPERATING CONDITION. MAINTENANCE OF BMPs SHOULD BE PROACTIVE, NOT REACTIVE, INSPECT BMPs AS SOON AS POSSIBLE (AND ALWAYS WITHIN 24 HOURS) FOLLOWING A STORM THAT CAUSES SURFACE EROSION, AND PERFORM NECESSARY MAINTENANCE. 2. FREQUENT OBSERVATIONS AND MAINTENANCE ARE NECESSARY TO MAINTAIN BMPs IN EFFECTIVE OPERATING CONDITION, INSPECTIONS AND CORRECTIVE MEASURES SHOULD BE 3. WHERE BMP9 HAVE FAILED, REPAIR OR REPLACEMENT SHOULD BE INITIATED UPON DISCOVERY OF THE FAILURE. 4. STRAW BALES SHALL BE REPLACED IF THEY BECOME HEAVILY SOILED, ROTTEN, OR 5. SEDIMENT ACCUMULATED UPSTREAM OF STRAW BALE BARRIER SHALL BE REMOVED AS NEEDED TO MAINTAIN FUNCTIONALITY OF THE 8MP, TYPICALLY WHEN DEPTH OF ACCUMULATED SEDIMENTS IS APPROXIMATELY 14 OF THE HEIGHT OF THE STRAW BALE BARRIER. 6. STRAW BALES ARE TO REMAIN IN PLACE UNTIL THE UPSTREAM DISTURBED AREA IS: STABILIZED AND APPROVED BY THE LOCAL JURISDICTION. 7. WHEN STRAW BALES ARE REMOVED, ALL DISTURBED AREAS SHALL BE COVERED WITH TOPSOIL, SEEDED AND MULCHED OR OTHERWISE STABILIZED AS APPROVED BY LOCAL JURISDICTION. (DETAILS ADAPTED FROM TOWN OF PARKER, COLORADO, NOT AVAILABLE IN AUTOCAO) NOTE: MANY JURISDICTIONS HAVE BMP DETAILS THAT VARY FROM UDFOD STANDARD DETAILS. CONSULT WITH LOCAL JURISDICTIONS AS TO WHICH DETAIL SHOULD BE USED WHEN DIFFERENCES ARE NOTED.

AMOUNT OF 1/2" (MINUS) CRUSHED ROCK AND WRAPPED WITH ADDITIONAL WIRE MESH SECURED TO ENDS OF ROCK REINFORCED SOCK. AS AN ALTERNATIVE TO FILLING JOINTS BETWEEN ADJOINING ROCK SOCKS WITH CRUSHED ROCK AND ADDITIONAL WIRE WRAPPING, ROCK SOCKS CAN BE OVERLAPPED (TYPICALLY 12-INCH OVERLAP) TO AVOID GAPS. GRADATION TABLE SIEVE SIZE MASS PERCENT PASSIN
SQUARE MESH SIEVES ROCK SOCK JOINTING NO. 4 MATCHES SPECIFICATIONS FOR NO. -ROCK SOCK INSTALLATION NOTES COARSE AGGREGATE FOR CONCRETE 1. SEE PLAN VIEW FOR: -LOCATION(S) OF ROCK SOCKS. [PER AASHTO M43, ALL ROCK SHALL BI FRACTURED FACE, ALL SIDES. 2. CRUSHED ROCK SHALL BE IX" (MINUS) IN SIZE WITH A FRACTURED FACE (ALL SIDES) AND SHALL COMPLY WITH GRADATION SHOWN ON THIS SHEET (11/2" MINUS). 3. WIRE MESH SHALL BE FABRICATED OF 10 GAGE POULTRY MESH, OR EQUIVALENT, WITH A MAXIMUM OPENING OF K", RECOMMENDED MINIMUM ROLL WIDTH OF 48"

Straw Bale Barrier (SBB)

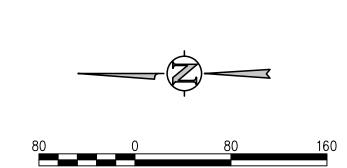
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4. WIRE MESH SHALL BE SECURED USING "HOC RINGS" OR WIRE TIES AT 6" CENTERS ALONG ALL JOINTS AND AT 2" CENTERS ON ENDS OF SOCKS. 5. SOME MUNICIPALITIES MAY ALLOW THE USE OF FILTER FABRIC AS AN ALTERNATIVE TO WIRE MESH FOR THE ROCK ENCLOSURE.

November 2010

RS-1. ROCK SOCK PERIMETER CONTROL



- GRADING AND DRAINAGE NOTES:
- 1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY LOCATION AND PROTECTION.
- 2. REFER TO HORIZONTAL CONTROL PLAN FOR FURTHER INFORMATION PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS. 3. CONTRACTOR IS RESPONSIBLE FOR RESTORING ALL DISTURBED AREAS TO THEIR ORIGINAL CONDITIONS.

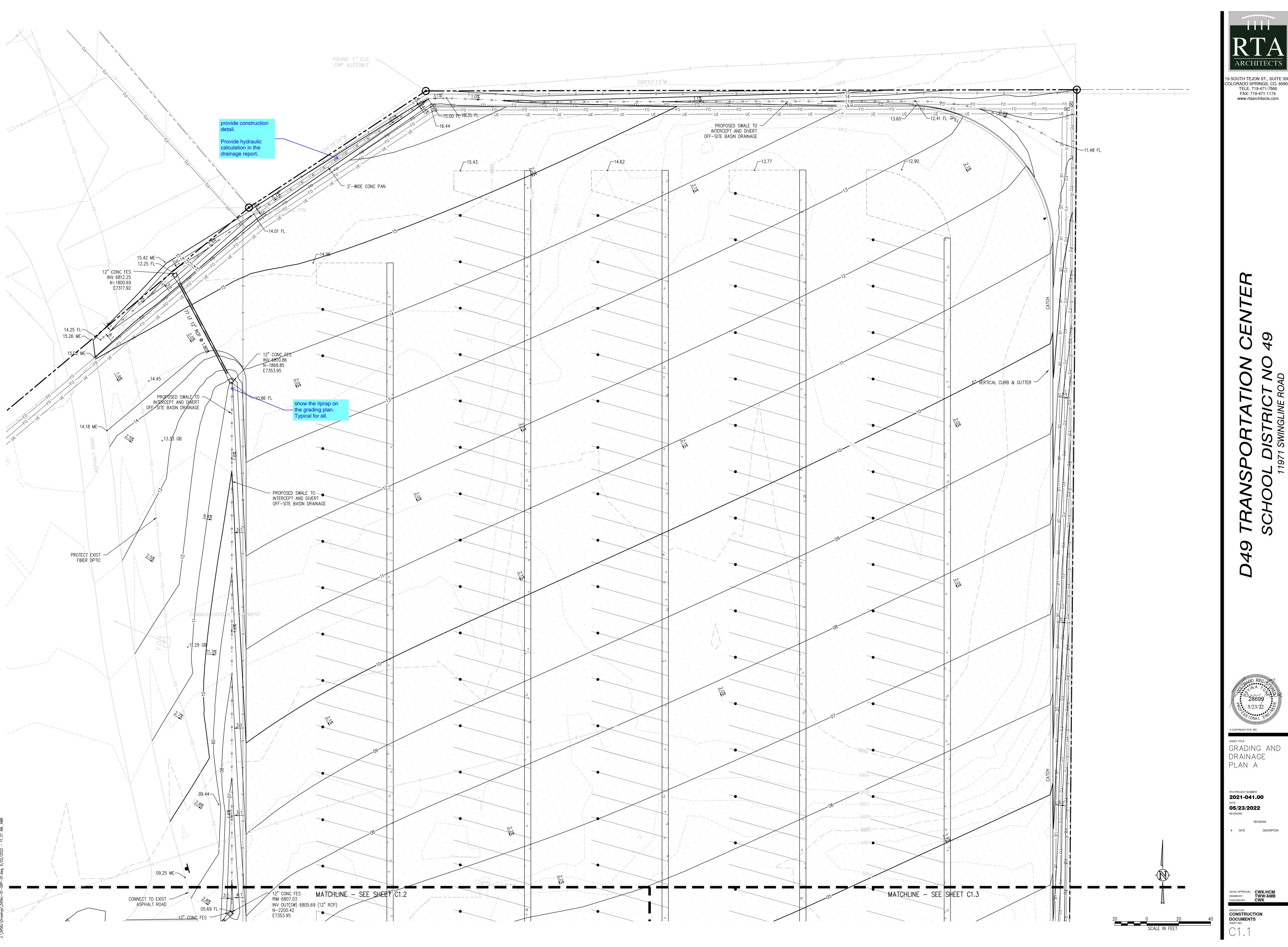
FINISHED GRADES (EXPOSED WALL, CAP/FOOTER, ETC.)

4. ALL SPOT ELEVATIONS ARE TO FINISHED GRADE OR FLOWLINE UNLESS OTHERWISE SPECIFIED. 5. IF WALL IS SHOWN, TG DENOTES THE FINISHED GRADE ADJACENT TO THE HIGH SIDE OF THE WALL. BG DENOTES THE FINISHED GRADE ADJACENT TO THE LOW SIDE OF THE WALL. REFER TO ARCH PLANS/DETAILS FOR WALL ELEVATIONS BEYOND THE ADJACENT

19 SOUTH TEJON ST., SUITE 300 COLORADO SPRINGS, CO. 80903 TELE. 719-471-7566 FAX: 719-471-1174 www.rtaarchitects.com

2021-041.00 05/23/2022

REVISIONS # DATE DESCRIPTION









GRADING AND DRAINAGE PLAN B

2021-041.00 05/23/2022



GRADING AND DRAINAGE PLAN C

2021-041.00
DATE
05/23/2022
REVISIONS

CONSTRUCTION DOCUMENTS
SHEET NO.



D49 TRANSPORTATION CENTE SCHOOL DISTRICT NO 49

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5/23/22

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GRADING AND DRAINAGE

RTA PROJECT NUMBER
2021-041.00

DATE
05/23/2022

REVISIONS

REVISIONS

REVISIONS
DATE DESCRIPTION

AVQC APPROVAL:
CWK/HCM
TWW/AMB
CWK

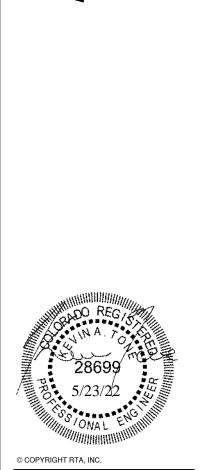




GRADING AND DRAINAGE PLAN E

2021-041.00 DATE 05/23/2022



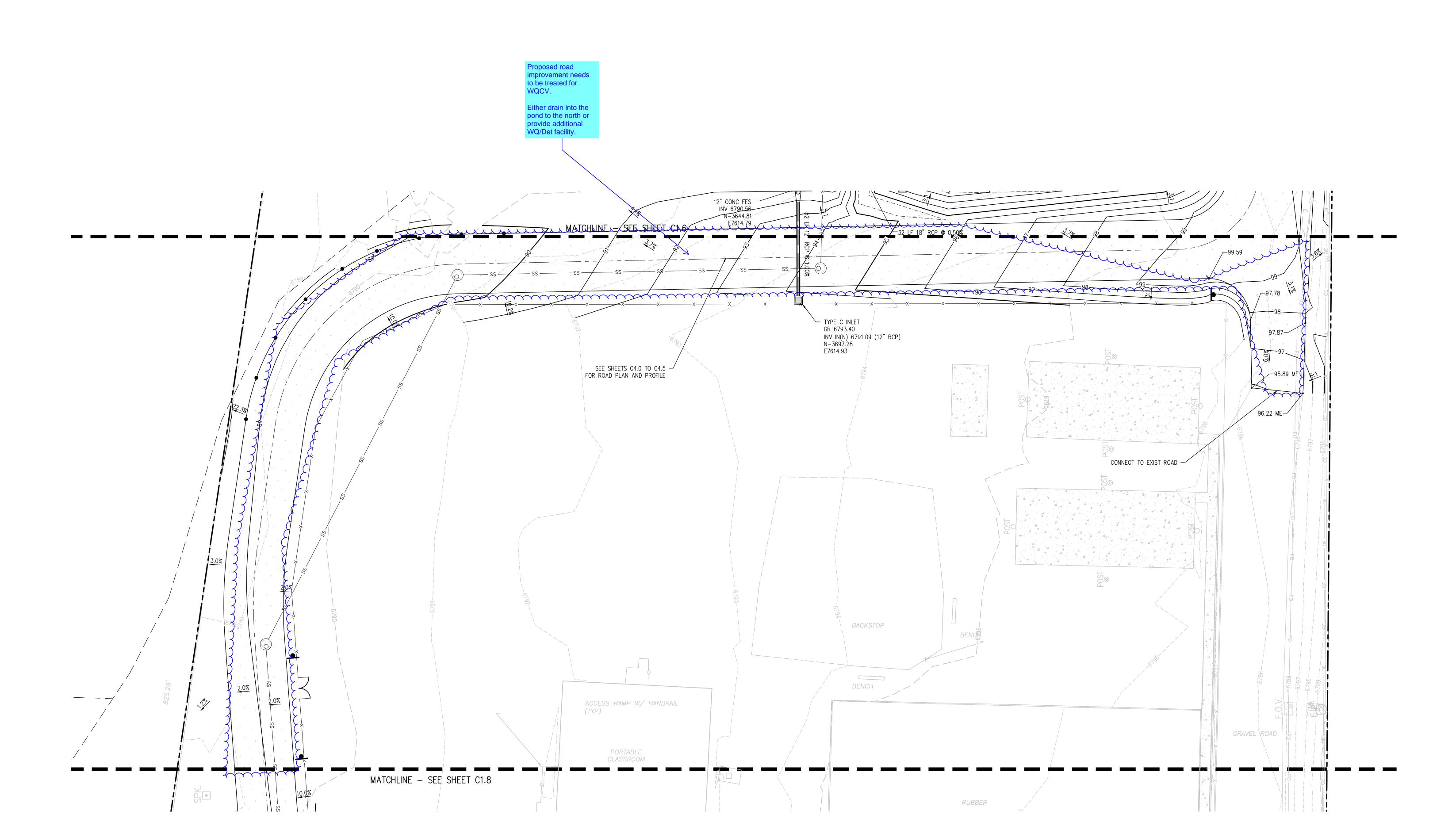


GRADING AND DRAINAGE PLAN F

2021-041.00 DATE 05/23/2022



GRADING AND DRAINAGE PLAN G





D49 TRANSPORTATION CENTE
SCHOOL DISTRICT NO 49

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ONA L ENGINEERING

GRADING AND DRAINAGE PLAN H

RTA PROJECT NUMBER
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05/23/2022
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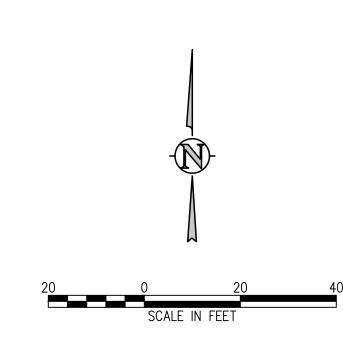
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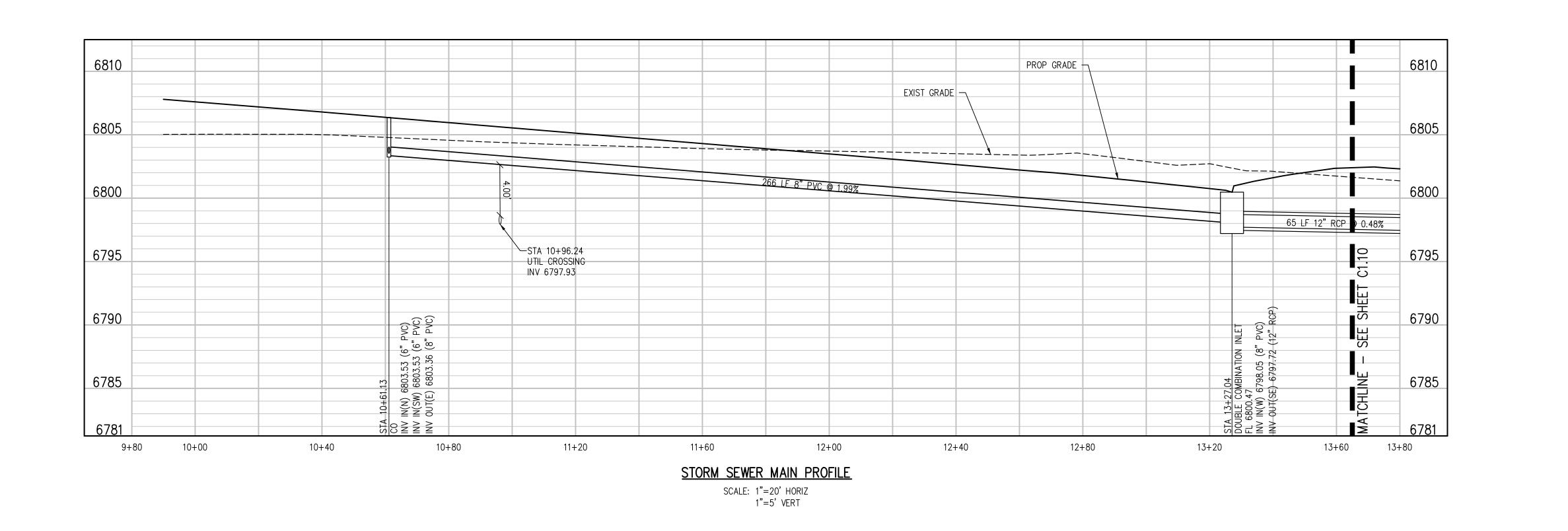
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STORM SEWER MAIN PLAN

SCALE: 1"=20"

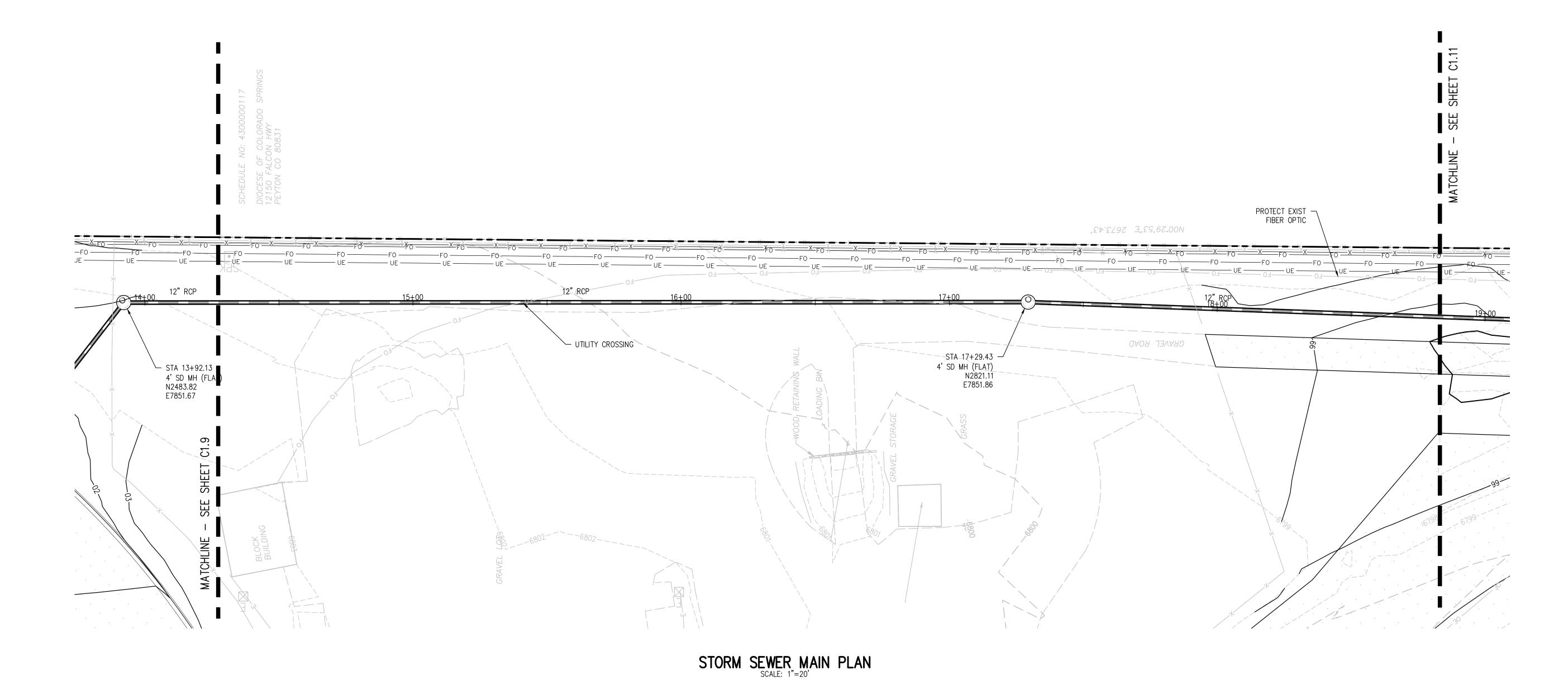


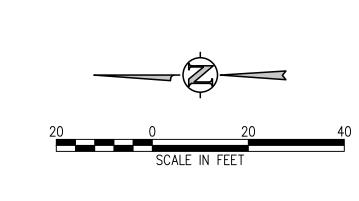


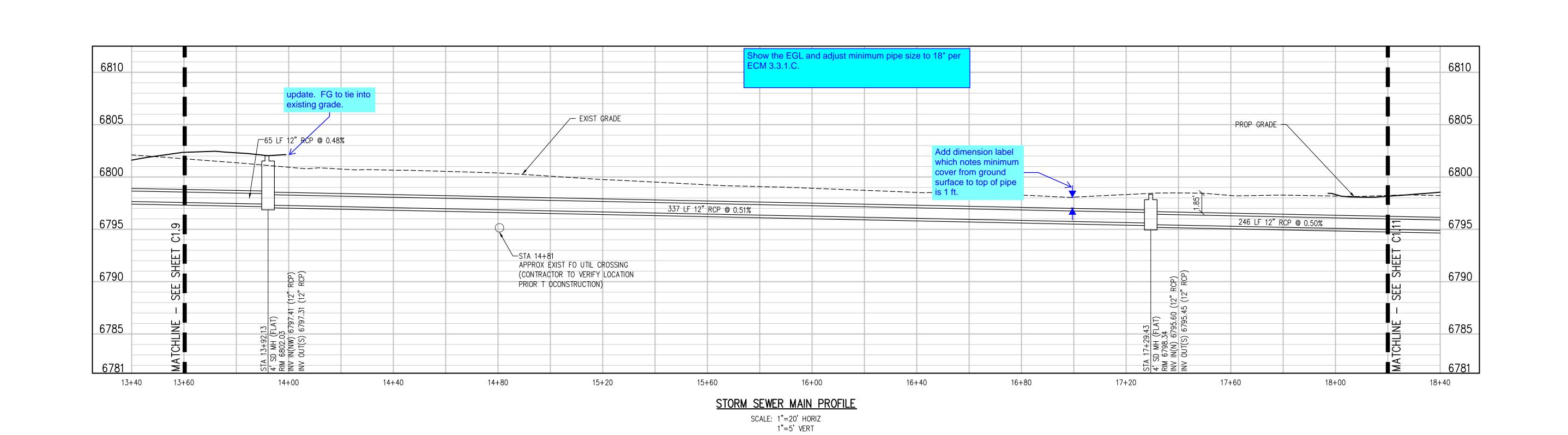


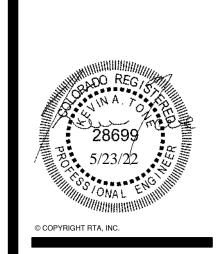
STORM SEWER
MAIN PLAN
AND PROFILE

2021-041.00
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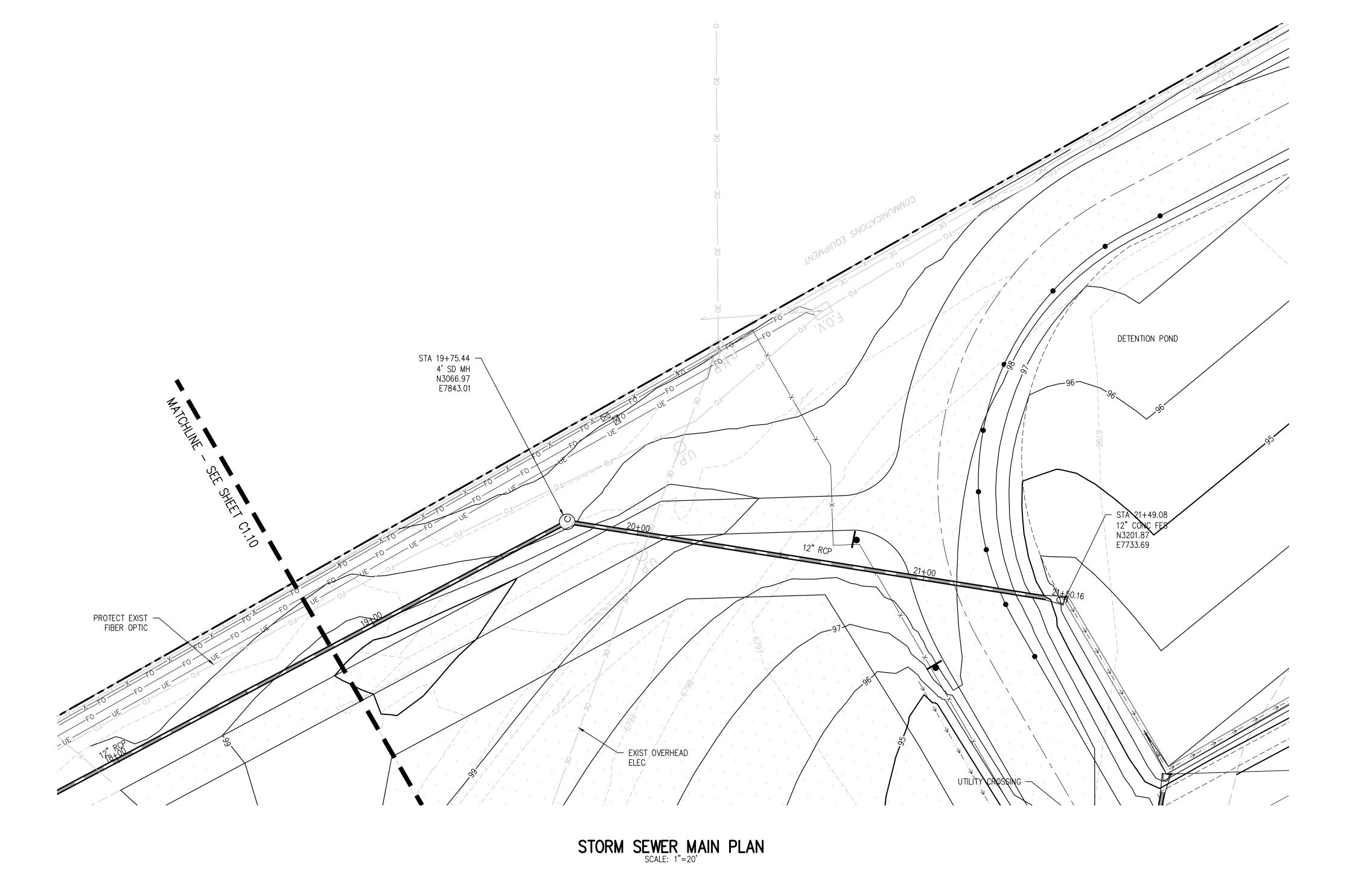


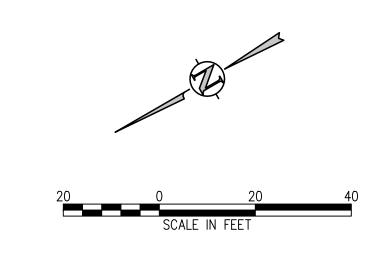
STORM SEWER
MAIN PLAN
AND PROFILE

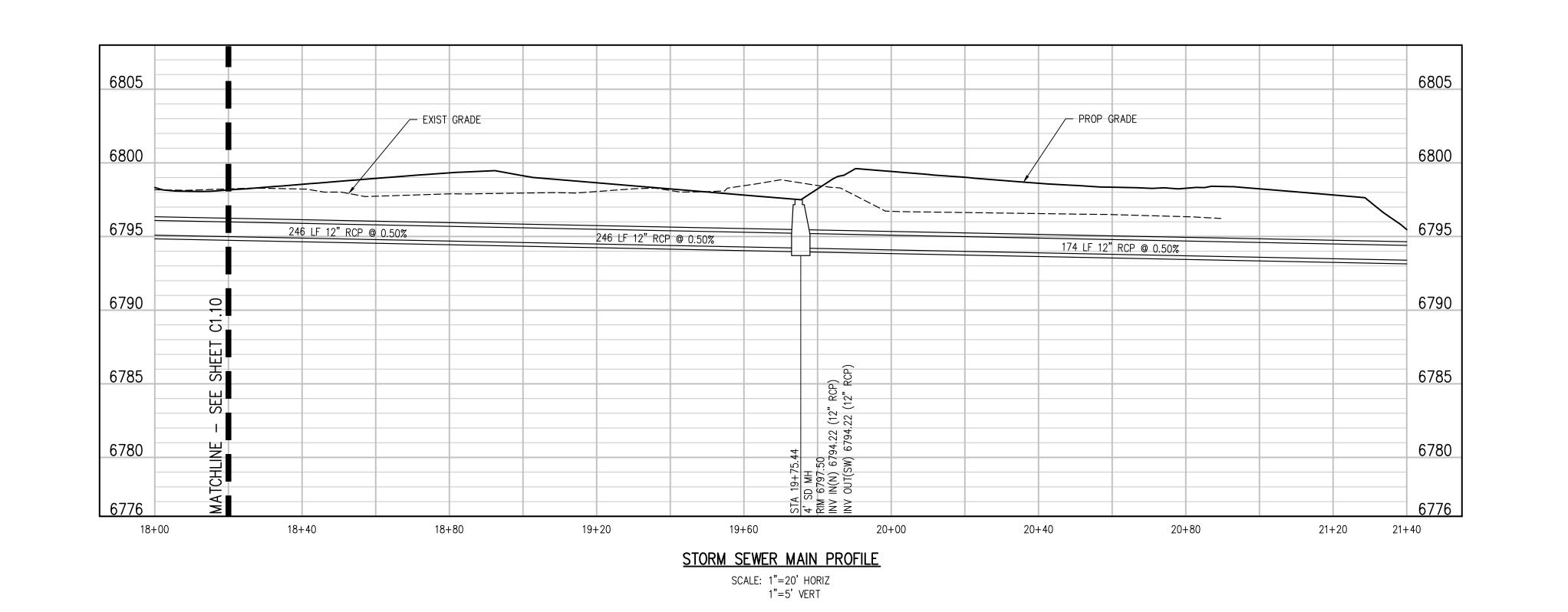
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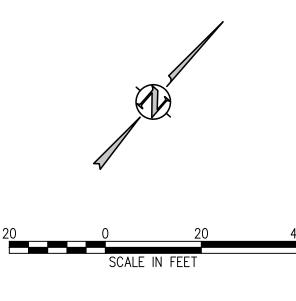






STORM SEWER
MAIN PLAN
AND PROFILE

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DIVERSION STORM SEWER PLAN AND PROFILE

ARCHITECTS

19 SOUTH TEJON ST., SUITE 300 COLORADO SPRINGS, CO. 80903 TELE. 719-471-7566 FAX: 719-471-1174 www.rtaarchitects.com





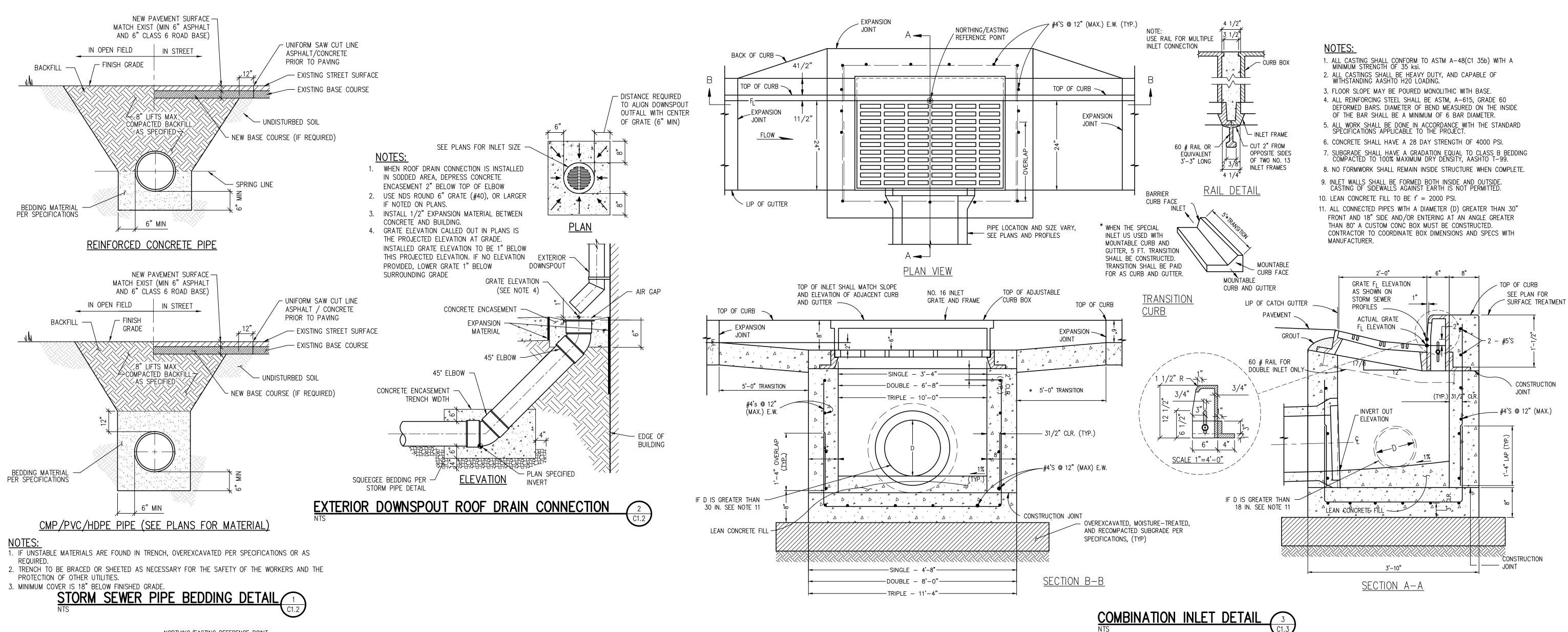


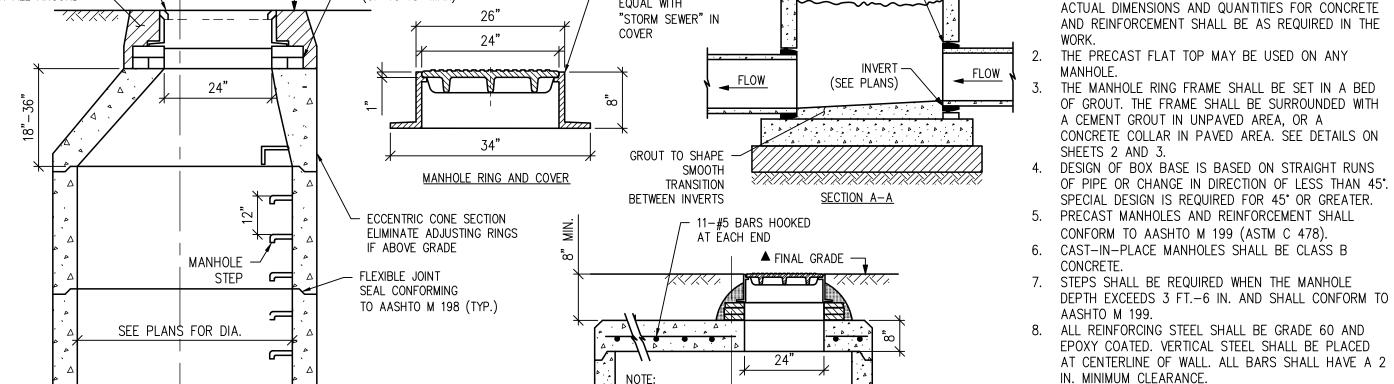
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DRAINAGE

DETAILS

CONSTRUCTION **DOCUMENTS**





USE FLAT TOP

MANHOLES LESS

THAN 6' DEEP

COPOLYMER -

PLASTIC

POLYPROPYLENE

INDUSTRIES, MODEL NO. PS2-PF.

│ MANHOLE —

SEE PLANS FOR DIA.

FLAT TOP SECTION DETAIL

SECTION FOR

1/2" GRADE 60 STEEL

STEPS SHALL BE

MANUFACTURED BY M.A.

REINFORCEMENT

- 24" DIA CI MANHOLE

FRAME AND COVER

NEENAH R-1706 OR

EQUAL WITH

GROUT OPENINGS -

AROUND ALL PIPES

EPOXY COATED. VERTICAL STEEL SHALL BE PLACED AT CENTERLINE OF WALL. ALL BARS SHALL HAVE A 2 IN. MINIMUM CLEARANCE. 9. ALL PIPE ENTRIES INTO THE BASE OF MANHOLE SHALL BE CONNECTED BY OPEN CHANNELIZATION ADJUSTED FOR PIPE SIZE, SHAPE, SLOPE, AND WHEN FINAL GRADE IS DIRECTION OF FLOW. DETAILS SHOWN ARE TYPICAL PAVEMENT SURFACE, FOR INSTALLATIONS WITH ALL INVERTS OF SAME RECESS MANHOLE RING AND COVER 1/4" MIN. RELATIVE ELEVATION. FOR EXCESSIVE ELEVATION TO 1/2" MAX. DIFFERENCE BETWEEN INVERTS, SPECIAL BASE/CHANNEL DETAILS WILL BE SHOWN ON THE 10. FLOW CHANNELS AND INVERTS SHALL BE FORMED BY SHAPING WITH CLASS B CONCRETE OR APPROVED

1. SINCE ALL PIPE ENTRIES INTO THE BASE ARE

VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL.

11. STUB-OUTS SHALL EXTEND 2 FT. MINIMUM BEYOND OUTSIDE WALL SURFACE OF MANHOLE AND BE SATISFACTORILY PLUGGED. 12. THE SLOPE OF THE MANHOLE COVER SHALL MATCH THE ROADWAY PROFILE AND CROSS SLOPE. 13. BASE SLABS SHALL BE POURED MONOLITHICALLY WITH BOTTOM RISER SECTION. 14. PRECAST MANHOLE BASES SHALL FIT THE CONDITIONS AND LOCATIONS FOR WHICH THEY ARE INTENDED WITHOUT ANY FIELD MODIFICATIONS. ANY MANHOLE BASE WHICH REQUIRES FIELD CUTTING OR

MODIFICATION IN ORDER TO FIT THE LOCATIONS INTENDED WILL BE REJECTED BY THE ENGINEER AND REMOVED AND REPLACED BY THE CONTRACTOR AT NO COST TO THE OWNER. 15. FOR FULL DETAIL, SEE CDOT DETAIL M-604-20.

COMPACTED BACKFILL (TYP) INLINE DRAIN SECTION SURROUND INLINE DRAIN W/ 1'-6" SQUEEGEE (TYP) BEDDING DETAIL 8" TO 30" NYLOPLAST DRAIN (SEE PLANS FOR SIZE)

1. AREA DRAIN COVER TO BE NYLOPLAST CAST HS-20 RATED BOLTED AND HINGED GRATE OR APPROVED EQUAL IN TRAFFIC AREAS. 2. AREA DRAIN INLETS IN PEDESTRIAN AREAS SHALL BE INSTALLED WITH PEDESTRIAN RATED GRATES (1/4" MAX OPENING, TYPICAL).

AREA DRAIN DETAIL

- CAST IRON HINGED,

8" MIN CONCRETE COLLAR

BOLTED GRATE

(SEE NOTES)

STORM MANHOLE DETAIL 4

(OR ACCEPTABLE SUBSTITUTE) PLASTIC MANHOLE STEP

MANHOLE RING AND COVER PRECAST CONC ADJUSTING RINGS GROUT WITH PC NON-SHRINK SEAL EACH WITH JOINT GASKET MORTAR ALL AROUND ▲ FINAL GRADE -(UP TO 18" MAX)

PRECAST SLAB BASE

└─ OVEREXCAVATED, MOISTURE—TREATED, AND

RECOMPACTED SUBGRADE PER SPECIFICATIONS, (TYP)

(CENTER OF STRUCTURE BASE)

NORTHING/EASTING REFERENCE POINT

PRECAST CONC BASE SHOWN

REINFORCING TO CONFORM

IF CAST-IN-PLACE,

WITH ASTM C 478

- GROUT TO SHAPE SMOOTH

SLOPE AT 1/2" PER FOOT

#4 @ 12", EACH WAY

- MIN. 6-#4 TIE BARS

(3" CLEAR)

TRANSITION BETWEEN INVERTS

will review pond design with UD-Detention and UD-BMP calculation forms (see Drainage Report comments)

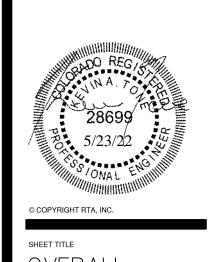
IBANKMENT WIDTH

FLOW

DETENTION BASIN OUTLET STRUCTURE

ARCHITECTS 19 SOUTH TEJON ST., SUITE 300 OLORADO SPRINGS, CO. 80903 TELE. 719-471-7566 FAX: 719-471-1174 www.rtaarchitects.com

GRADING & DRAINAGE DETAILS



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OVERALL UTILITY PLAN

RTA PROJECT NUMBER
2021-041.00
DATE
05/23/2022

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DATE DESCRIPTION

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UTILITY NOTES:

LOCATION AND PROTECTION.

1. CONTRACTOR TO FIELD VERIFY ALL EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REFER TO GENERAL NOTES FOR UTILITY

2. ALL DRY UTILITY AND ELECTRIC DESIGNS ARE PROVIDED BY OTHERS

SPECIFICATIONS AND COORDINATE WITH ALL UTILITY OWNERS AS

AND SHOWN FOR REFERENCE ONLY. SEE MEP PLANS AND

3. CONTRACTOR TO MARK ALL UTILITY STUBS WITH MARKERS.



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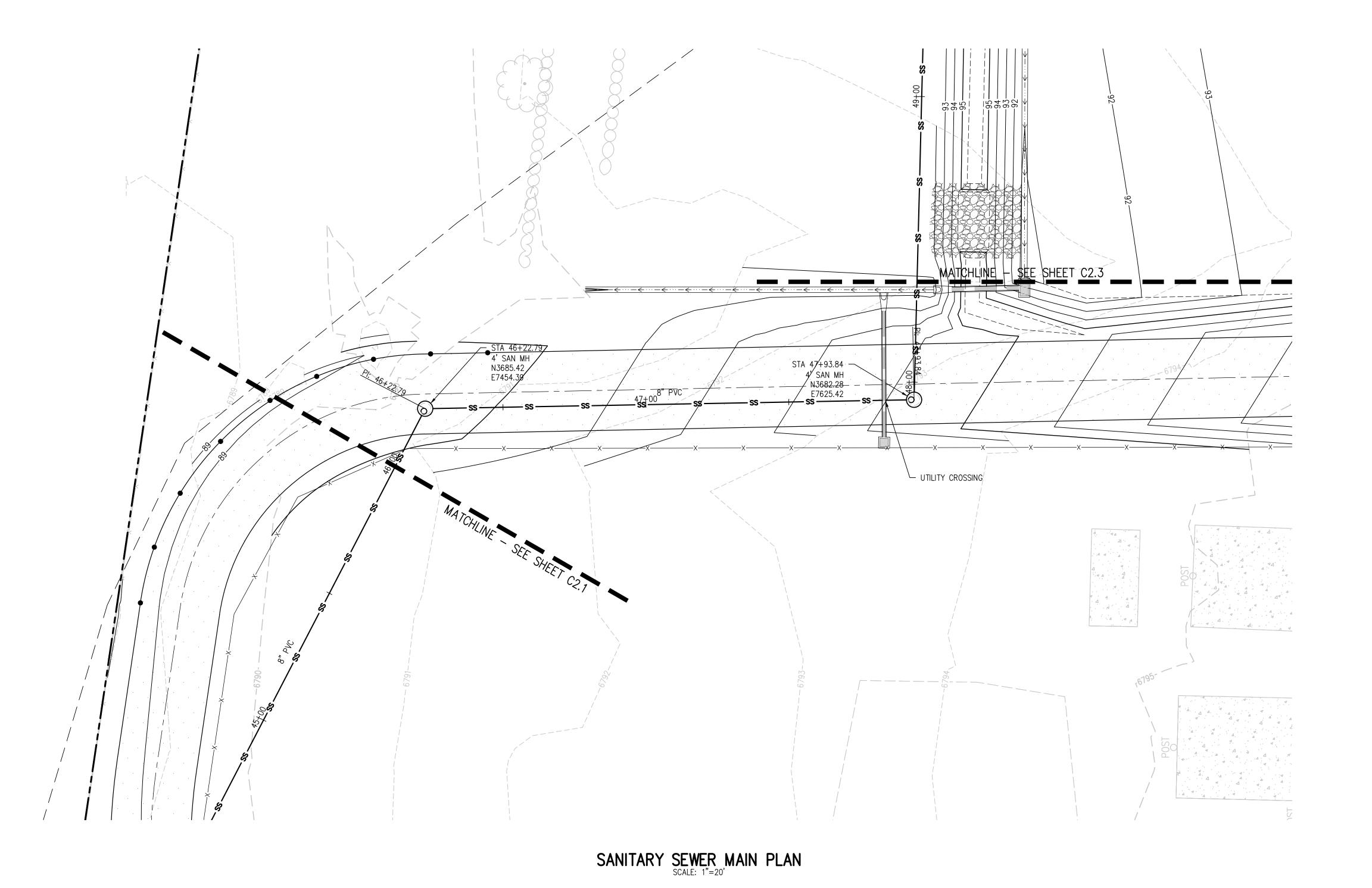
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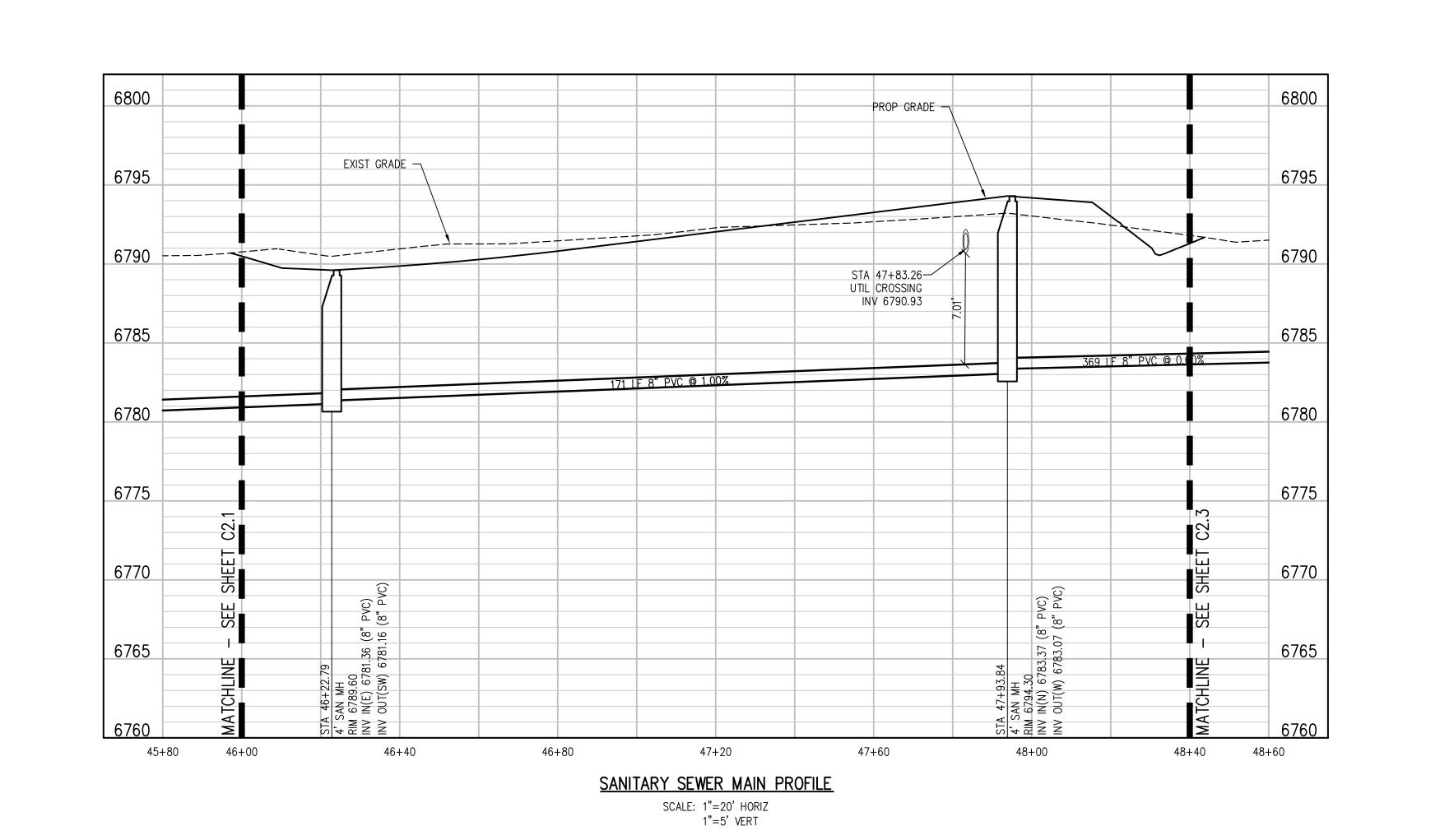
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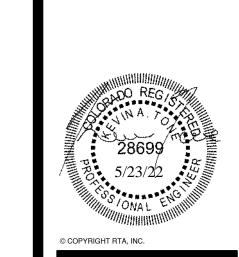
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TWW/AN
CWK





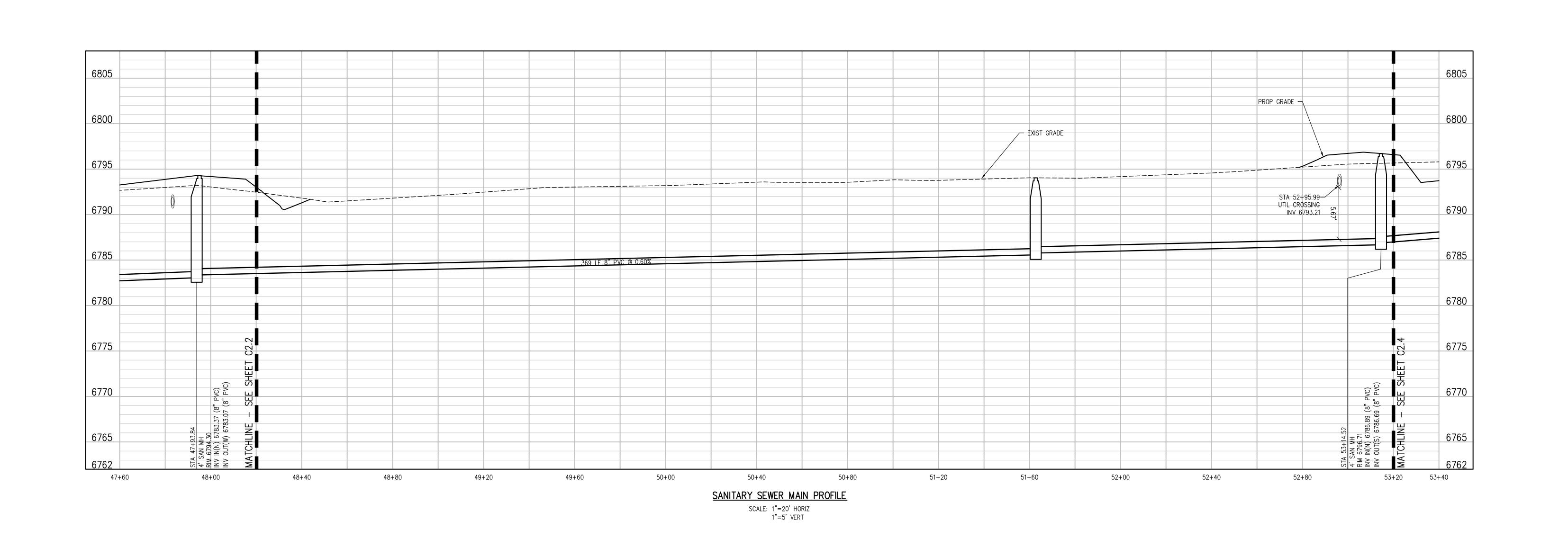






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D49 TRANSPORTATION CENTER
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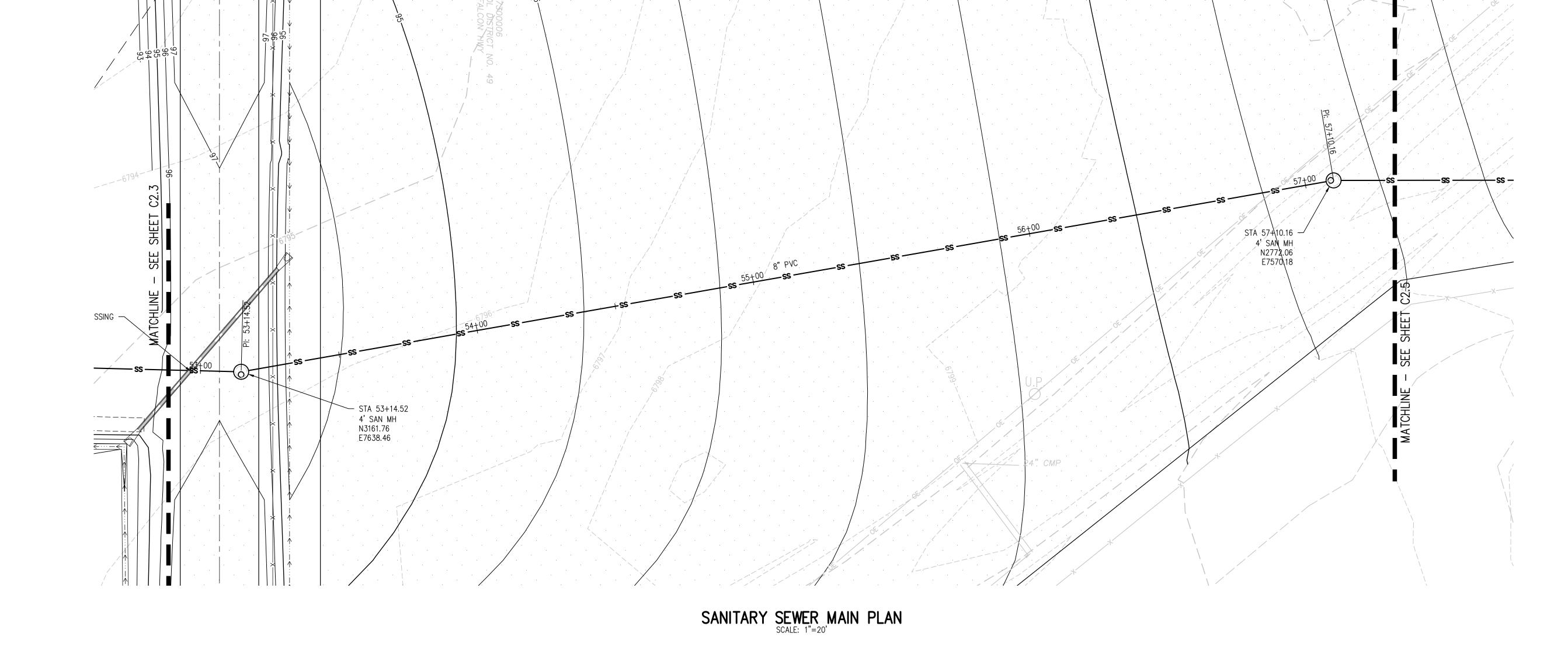
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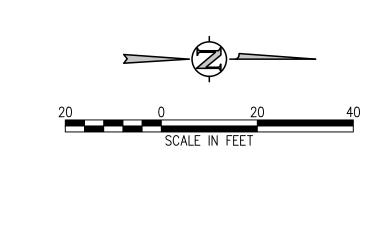
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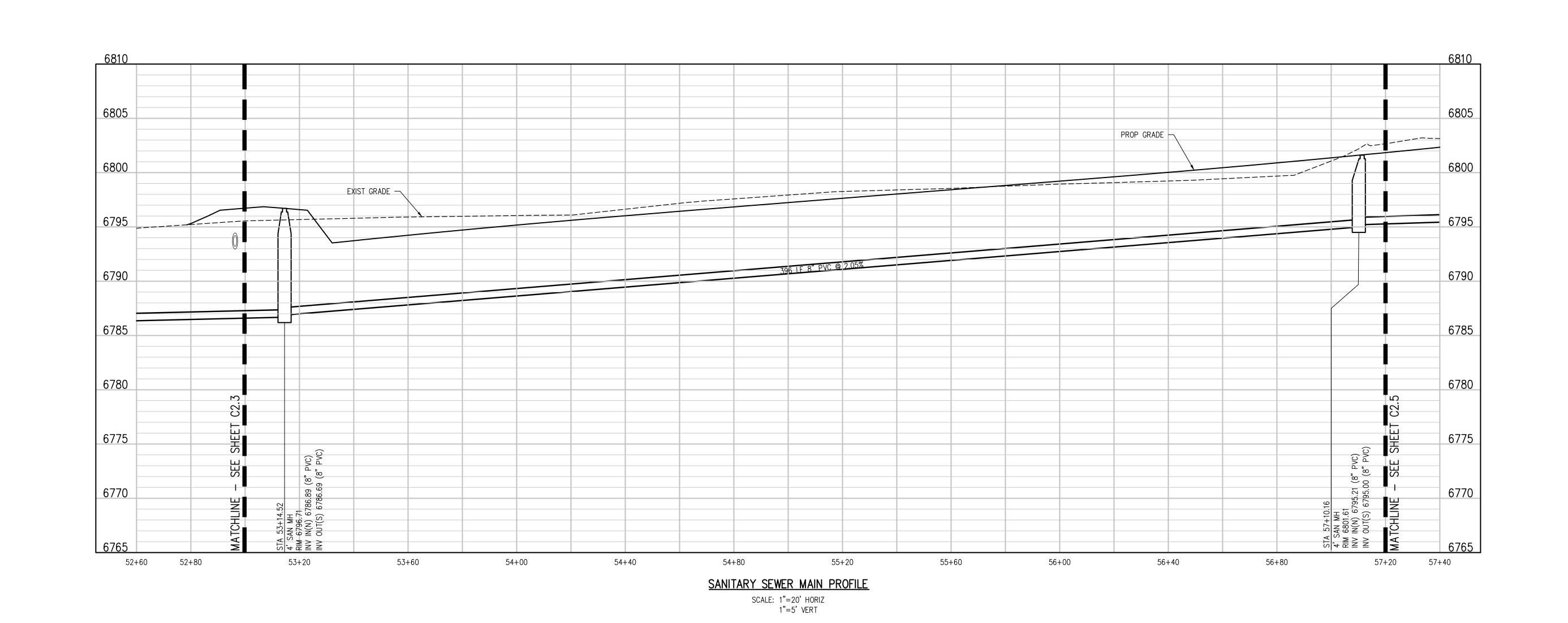
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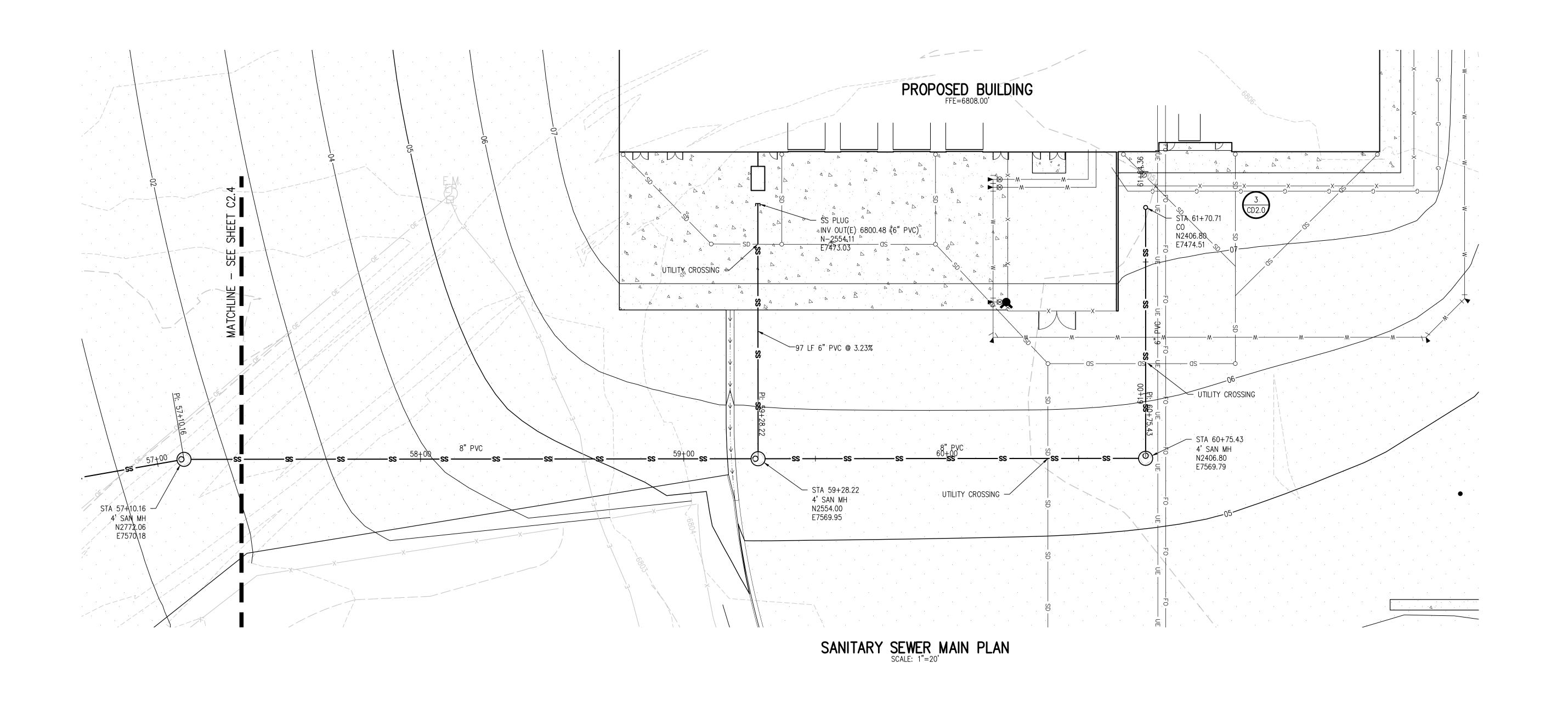


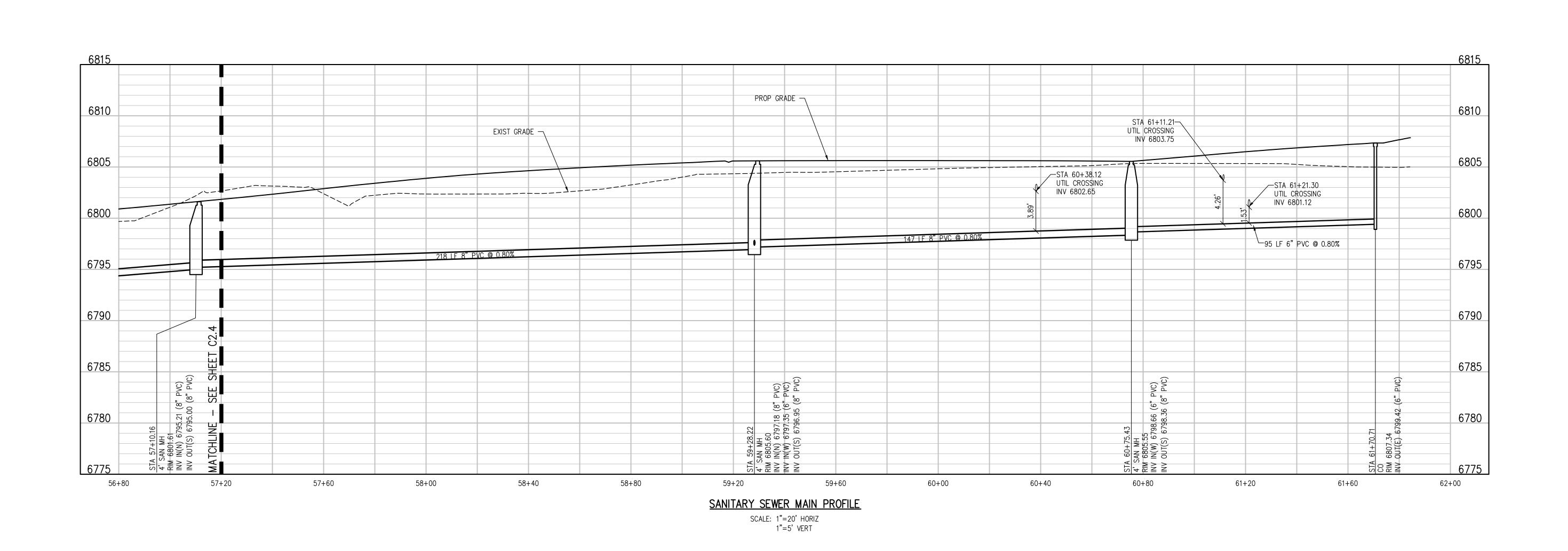




SANITARY MAIN PLAN AND PROFILE

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WATER PLAN A

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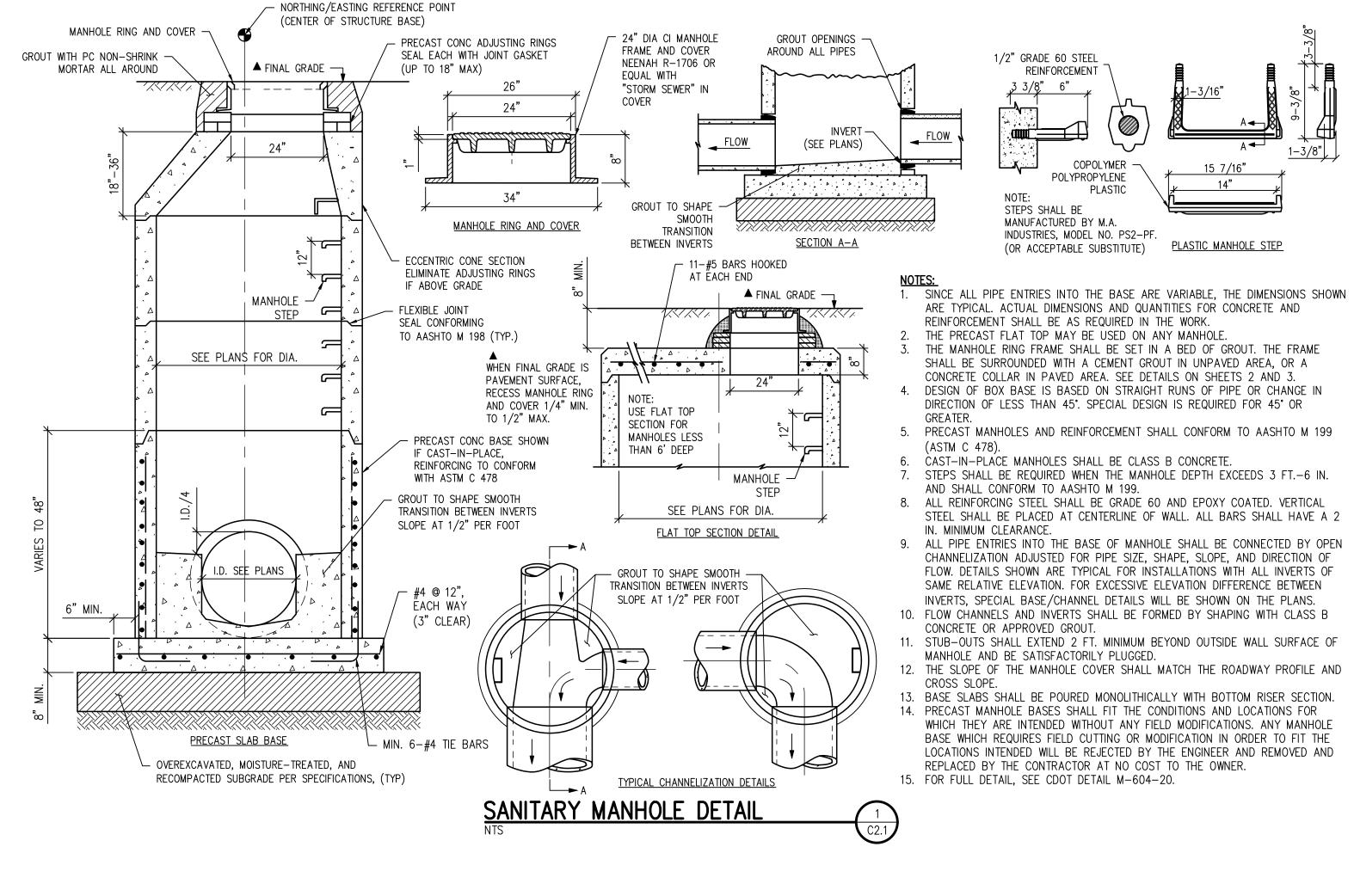
WATER PLAN B

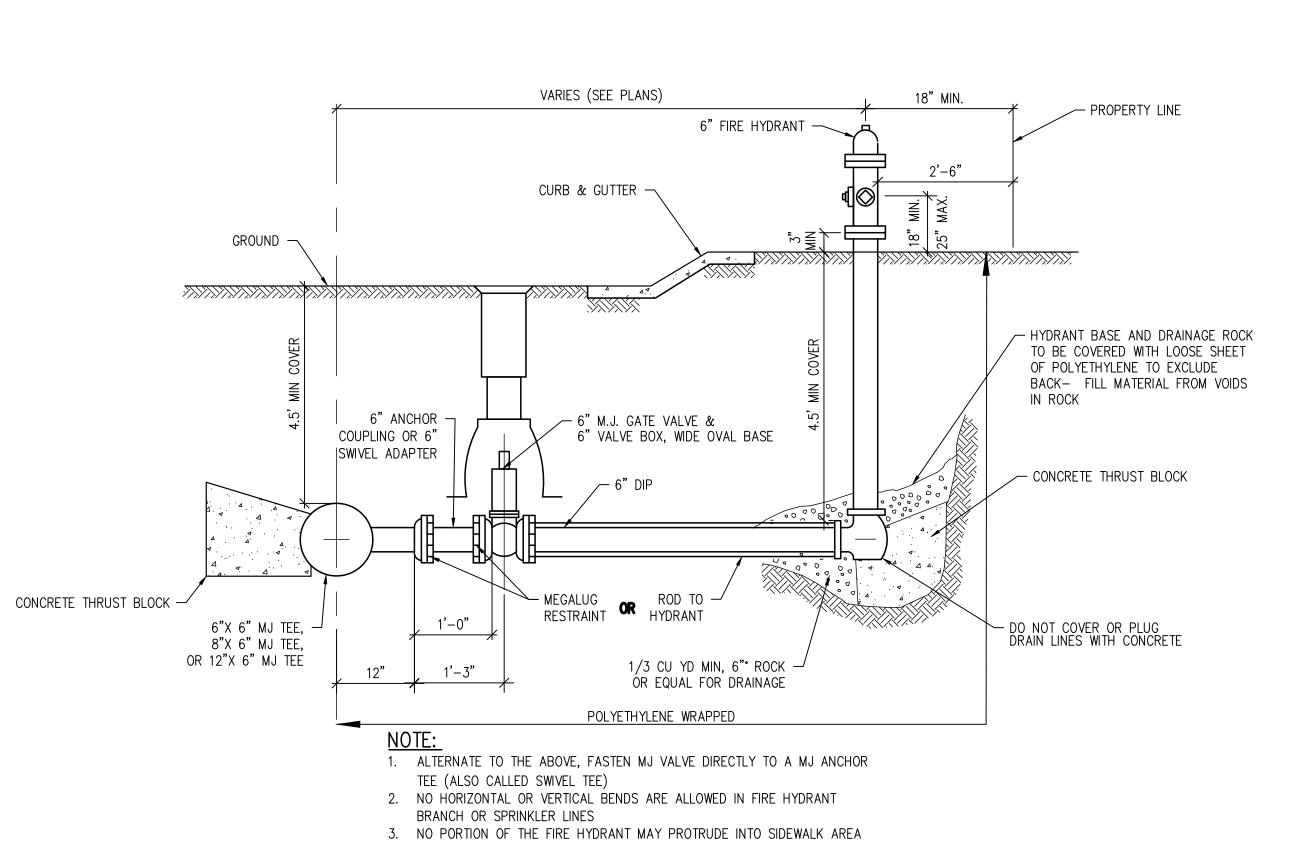
2021-041.00 DATE 05/23/2022

ARCHITECTS

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DETAILS





FINAL GRADE ---

 \angle 8"LIFTS MAX COMPACTED μ

SANITARY SEWER & WATER PIPE BEDDING DETAIL (2)

BACKFILL TO 95% STD

PROCTOR DENSITY

SEE NOTE 2 ———

PIPE MIN. MAX.

DIA. WIDTH WIDTH

UP TO 4" 1'-4" 2'-4"

6" | 1'-6" | 2'-6

8" | 1'-8" | 2'-8"

20" 2'-8" 3'-8"

SQUEEGEE BEDDING COMPACT TO 95%

STANDARD PROCTOR DENSITY —

- NEW PAVEMENT SURFACE

─ UTILITY PIPE (SEE PLAN FOR TYPE)

1. IF UNSTABLE MATERIALS ARE FOUND IN TRENCH BOTTOM, OVER EXCAVATE 12"

2. COMPACTED BACKFILL TO 90% STD

PROCTOR DENSITY IN NON-DRIVING

BELOW STD EMBEDMENT AND FILL WITH

SURFACES AND 95% UNDER PAVEMENT

3. SHOULD THE TRENCH BE EXCAVATED WIDER

SHALL BE PLACED WITH 2500PSI CONCRETE

FROM TRENCH BOTTOM TO PIPE SPRINGLINE

WORKERS AND THE PROTECTION OF OTHER

STATE AND FEDERAL SAFETY REGULATIONS

THAN ALLOWED A CONCRETE CRADLE

4. TRENCH TO BE BRACED OR SHEETED AS

NECESSARY FOR THE SAFETY OF THE

UTILITIES IN ACCORDANCE WITH LOCAL

3/4" CRUSHED ROCK, COMPACTED TO 95%

BEDDING

COMPACTED GRANULAR

SANITARY CLEANOUT DETAIL

MIRROR LINE FOR -DOUBLE CLEANOUT

SERVICE LINE -

CONCRETE CRADLE TO SPRING LINE

FULL TRENCH WIDTH

THREADED ADAPTOR AND CAP 4" BELOW BOTTOM OF COVER

- CONC COLLAR IN LANDSCAPE AREAS ONLY

CIRCULAR #4 <u>PLAN VIEW</u>

AND PLAZAS

BRASS COVER IN WALKS

AND LANDSCAPE AREAS

CAST IRON COVER IN PAVEMENT

FRAME AND COVER

SAME DIAMETER
 AS SERVICE LINE

- PLUG IF TERMINUS CLEANOUT

FIRE HYDRANT ASSEMBLY DETAIL

(C2.7)



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OVERALL
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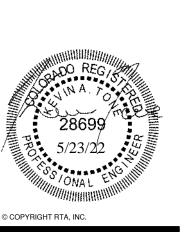
. ALL DIMENSIONS AND RADII ARE TO FACE OF CURB, FACE OF BUILDING AND EDGE OF WALK UNLESS OTHERWISE NOTED.

2. CONTRACTOR TO REPAIR/REPLACE ALL DAMAGE TO EXISTING FLATWORK OR SITE FEATURES NOT INTENDED FOR DEMOLITION.

3. REFER TO GRADING AND DRAINAGE PLAN FOR FURTHER INFORMATION

PERTAINING TO CURB & GUTTER, CHASES, AND DRAINAGE PANS.





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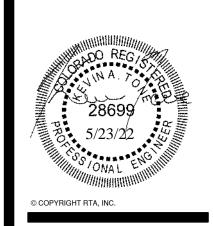




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D49 TRANSPORTATION (
SCHOOL DISTRICT NO 11971 SWINGLINE ROAD

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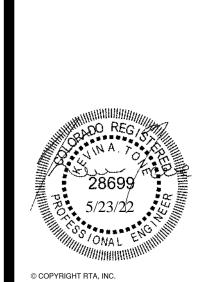
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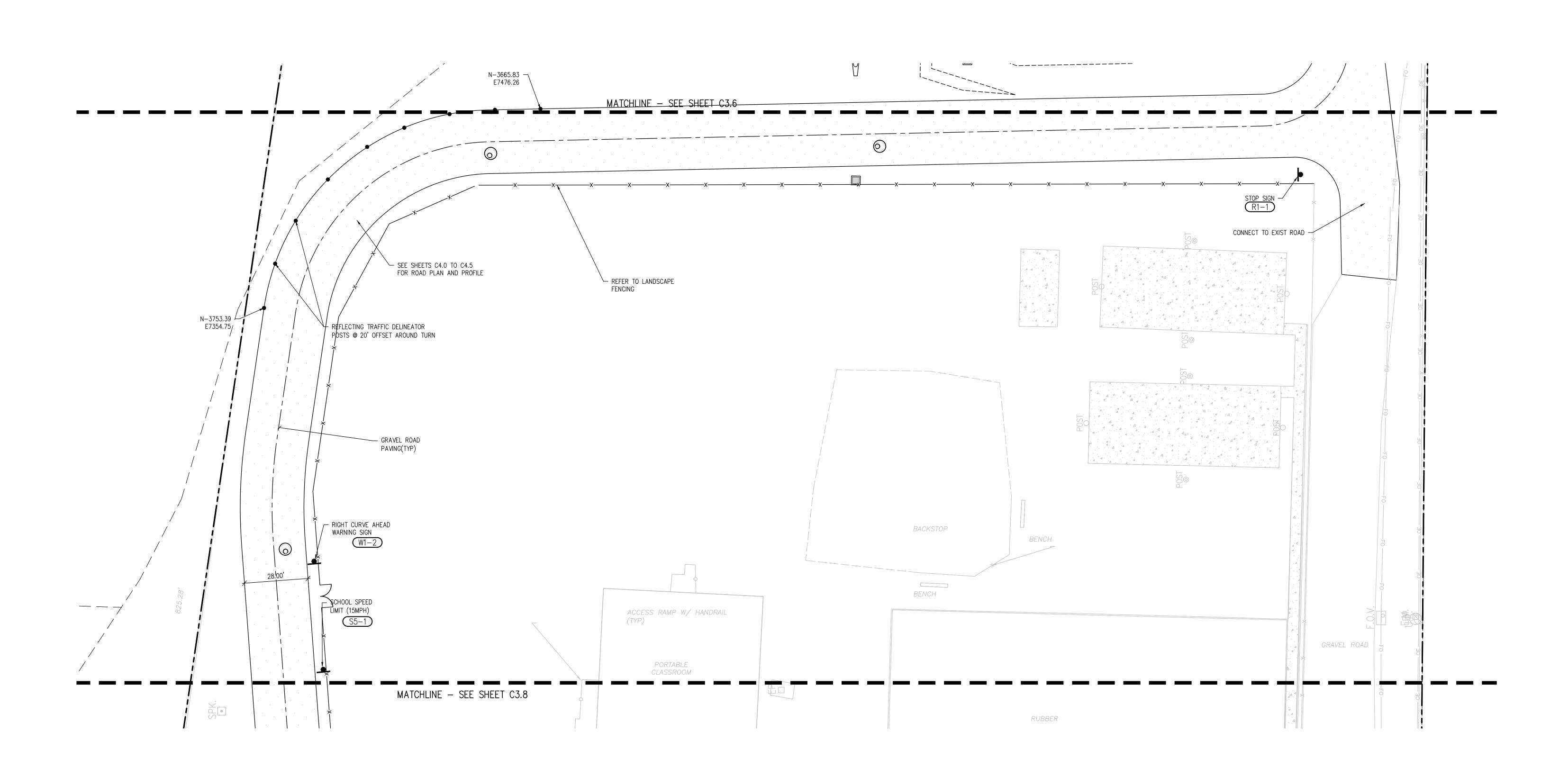
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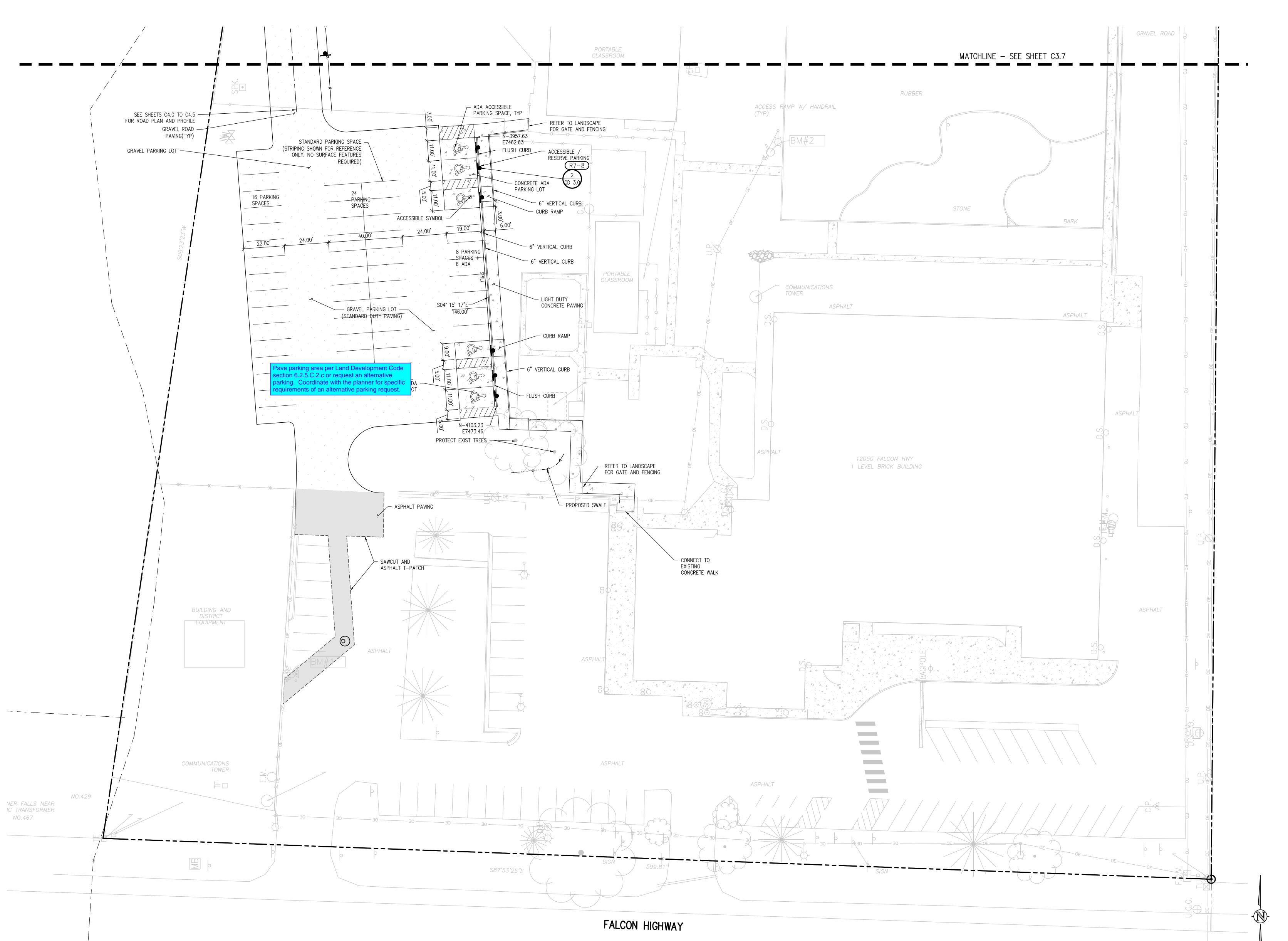
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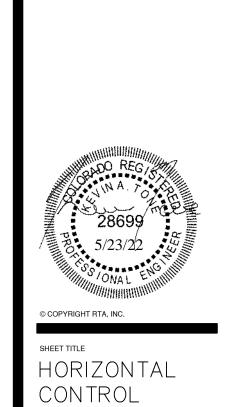
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<u>SPILL</u>

└─ CONCRETE

CURB AND

GUTTER (TYP)

CURB AND

OVEREXCAVATED, MOISTURE—TREATED, AND

1.5' CURB AND GUTTER

RECOMPACTED SUBGRADE PER PAVEMENT SECTION, (TYP)

- OVEREXCAVATED, MOISTURE-TREATED, AND SPILL

<u>1' CURB AND GUTTER (MEDIAN)</u>

PRIVATE CURB AND GUTTER DETAIL (-

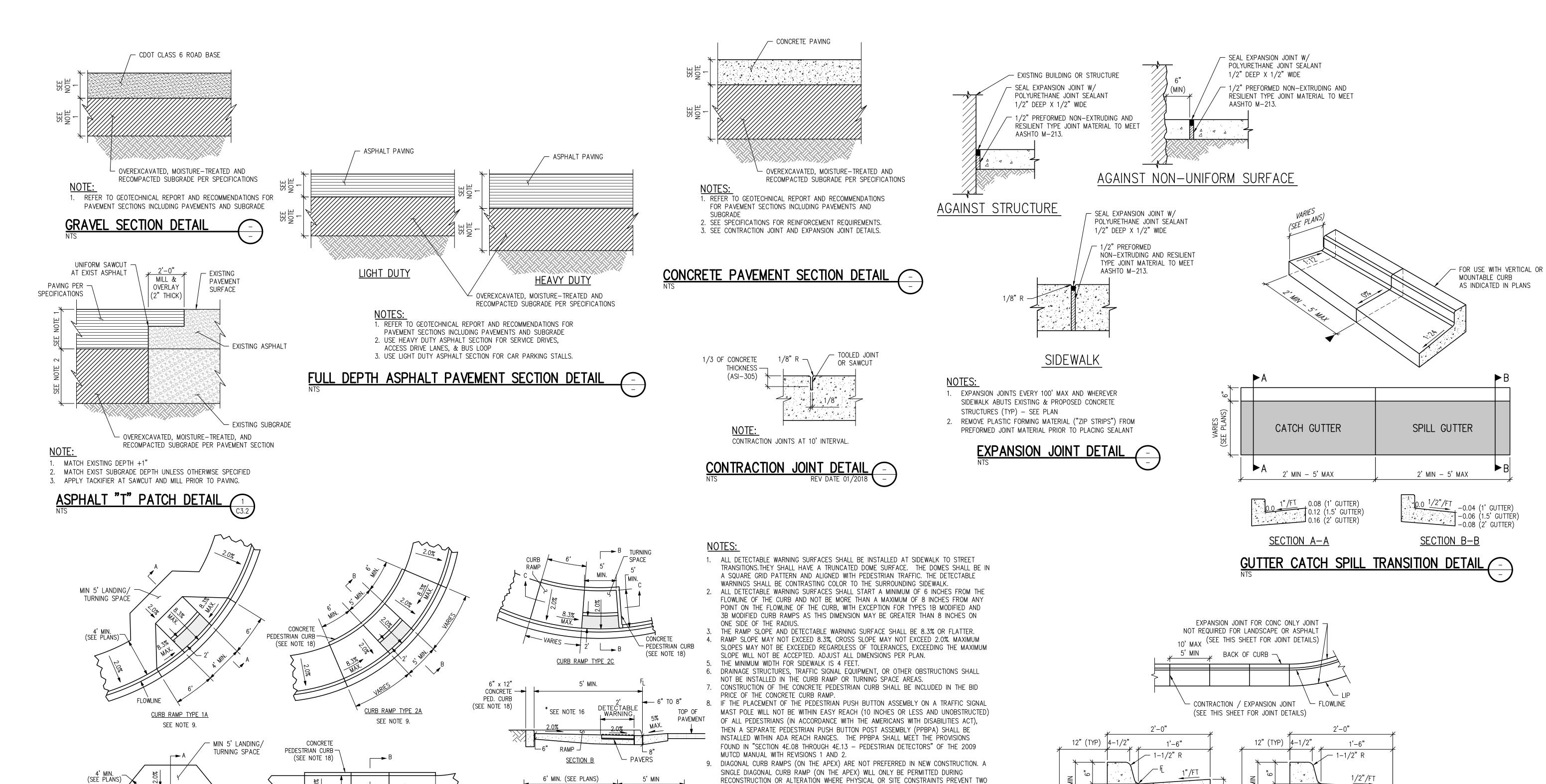
RECOMPACTED SUBGRADE PER PAVEMENT SECTION, (TYP)



DETAILS

05/23/2022

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JUSTIFICATION DOCUMENTATION (CDOT CURB RAMP DESIGN VARIANCE REQUEST FORM) FOR CDOT PROJECTS. ALL CURB RAMPS INSTALLED ON THE APEX MUST MEET THE — GRADE BREAK STANDARDS AS DEFINED IN M-608-1. 10. CURB RAMPS (EXCLUDING FLARED SIDES OR BLENDED TRANSITIONS) SHALL BE WHOLLY CONTAINED WITHIN THE WIDTH OF THE CROSSWALK AND/OR THE PEDESTRIAN STREET CROSSING THEY SERVE. CONCRETE I. ALL CURB RAMP JOINTS AND GRADE BREAKS SHALL BE FLUSH (0" - 1/8"). THE JOINT PEDESTRIAN CURB -BETWEEN THE ROADWAY SURFACE AND GUTTER PAN SHALL BE FLUSH. (SEE NOTE 18) SECTION C 12. THE CONTRACTOR SHALL VERIFY REMOVAL LIMITS ARE SUFFICIENT TO PROVIDE POSITIVE DRAINAGE, MAINTAIN EXISTING DRAINAGE PATTERNS, AND AVOID PONDING IN THE FINAL ~~~~~ 13. TO AVOID CHASING GRADE INDEFINITELY WHEN TRAVERSING THE HEIGHT OF CURB, THE (SEE _PLANS) RAMP LENGTH SHALL NOT EXCEED 15 FEET. ADJUST THE RAMP SLOPE AS NEEDED TO PROVIDE ACCESS TO THE MAXIMUM EXTENT TECHNICALLY FEASIBLE. BUFFER STRIP THE CHANGE IN GRADE AT THE BOTTOM OF THE CURB RAMP AND ADJOINING ROAD SURFACE SHALL NOT EXCEED AN ALGEBRAIC DIFFERENCE OF 13.33%. THE COUNTER SLOPE OF THE GUTTER OR ROAD AT THE FOOT OF A CURB RAMP, TURNING SPACE, OR BLENDED TRANSITION SHALL NOT EXCEED 5.0%. 15. FLARED SIDE SLOPES MAY EXCEED 10% ONLY WHERE THEY ABUT A NON-WALKABLE SURFACE OR THE ADJACENT CIRCULATION PATH IS BLOCKED. 16. THE STANDARD TURNING SPACE IS 5 FEET BY 5 FEET.

TURNING SPACE

17. CURB RAMP TYPE 1B, 2B, AND 3B MAY BE USED IN MID-BLOCK.

CURB RAMPS FROM BEING INSTALLED. THE ENGINEER SHALL PROVIDE APPROVED

18. THE PEDESTRIAN CURB IS REQUIRED UNLESS OTHERWISE SPECIFIED 19. FOR FULL DETAIL INCLUDING BAR LIST AND DIMENSION TABLE, SEE CDOT DETAIL M-604-1 SHEETS 1 THROUGH 10. 20. REFER TO PLANS, DETAILS AND SPECIFICATIONS FOR FLATWORK INFORMATION, SUBGRADE PREPARATION, WALK WIDTHS, CONCRETE THICKNESS, ETC.

dentify this is interna o the site for private ublic improvement shall reference County standard

CURB RAMP TYPE 3A

SEE NOTE 9.

MIN 5' LANDING/

TURNING SPACE

SIDEWALK -

3/8" EXPANSION

CURB RAMP TYPE 2B

(SEE NOTE 18)

FACE OF GUTTER CURB DETECTABLE

SIDEWALK 8.3% 2 MIN

CURB SLOPE

PEDESTRIAN TRANSITION -

WARNING

CURB RAMP TYPE 4A

JOINT (TYP.)

← GRADE BREAK

8.3% MAX.

2' DETECTABLE

\ BREAKPOINT

6' 4' MIN.

CONCRETE

SIDEWALK

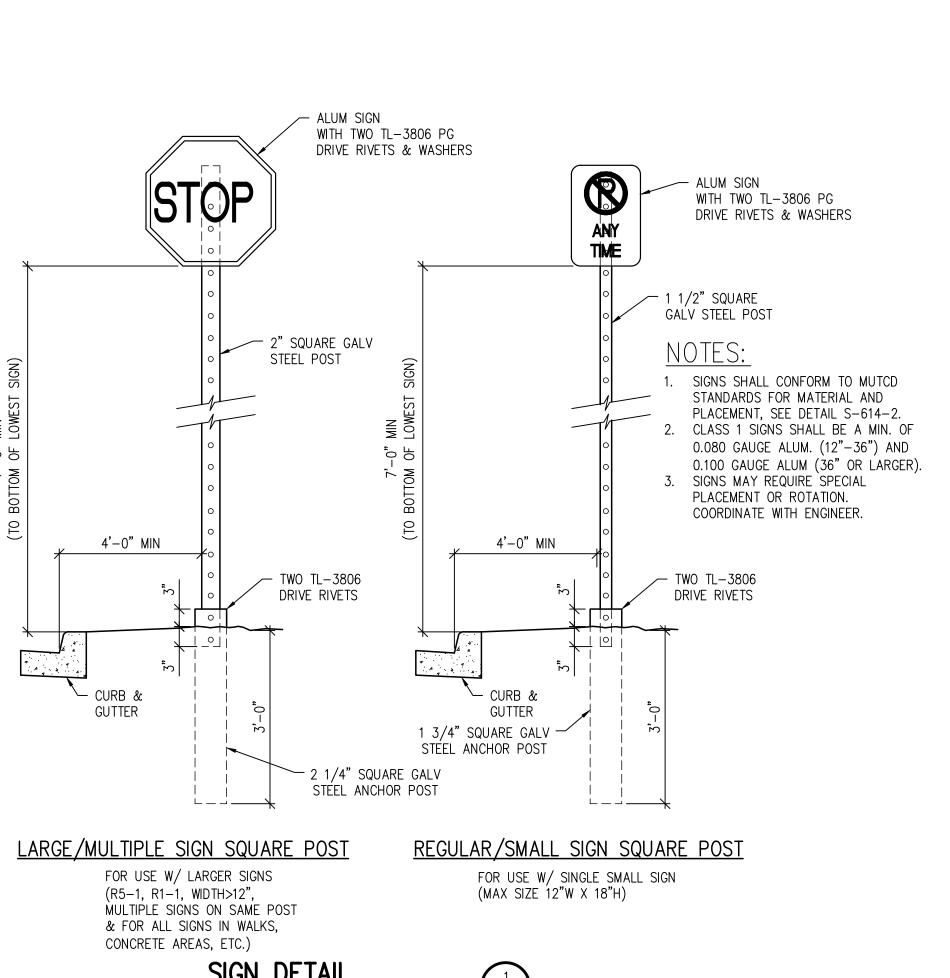
3/8" EXPANSION

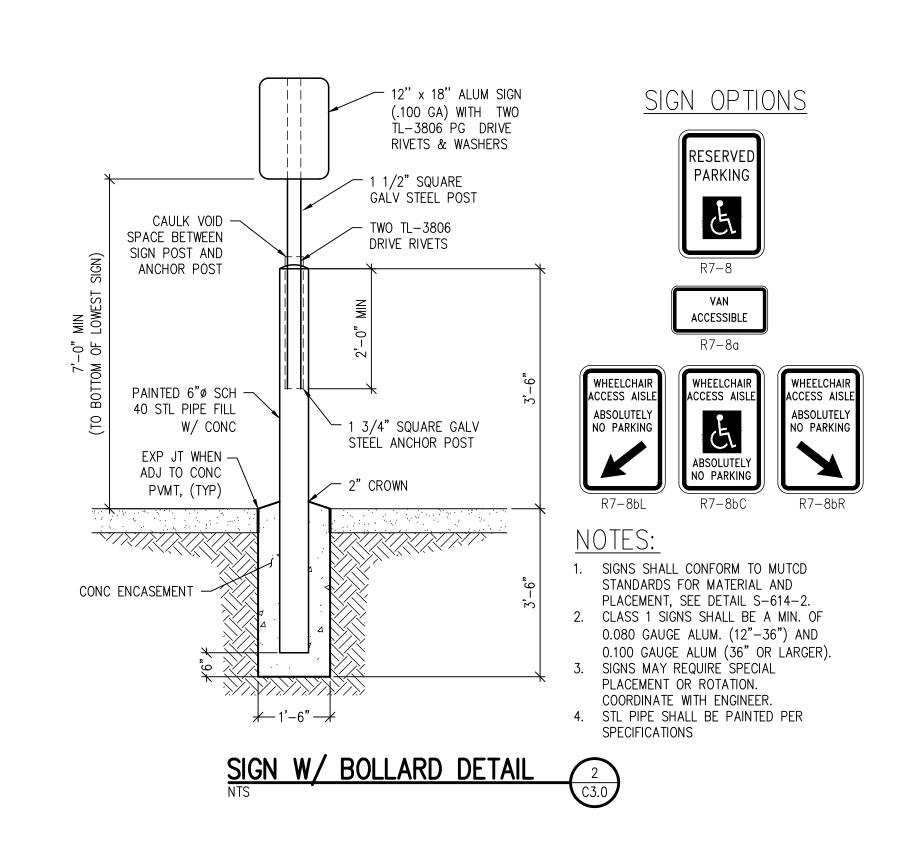
JOINT (TYP.)

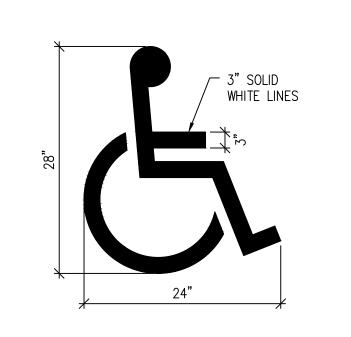
CURB RAMP TYPE 1B DETAIL

<u>SECTION A</u>







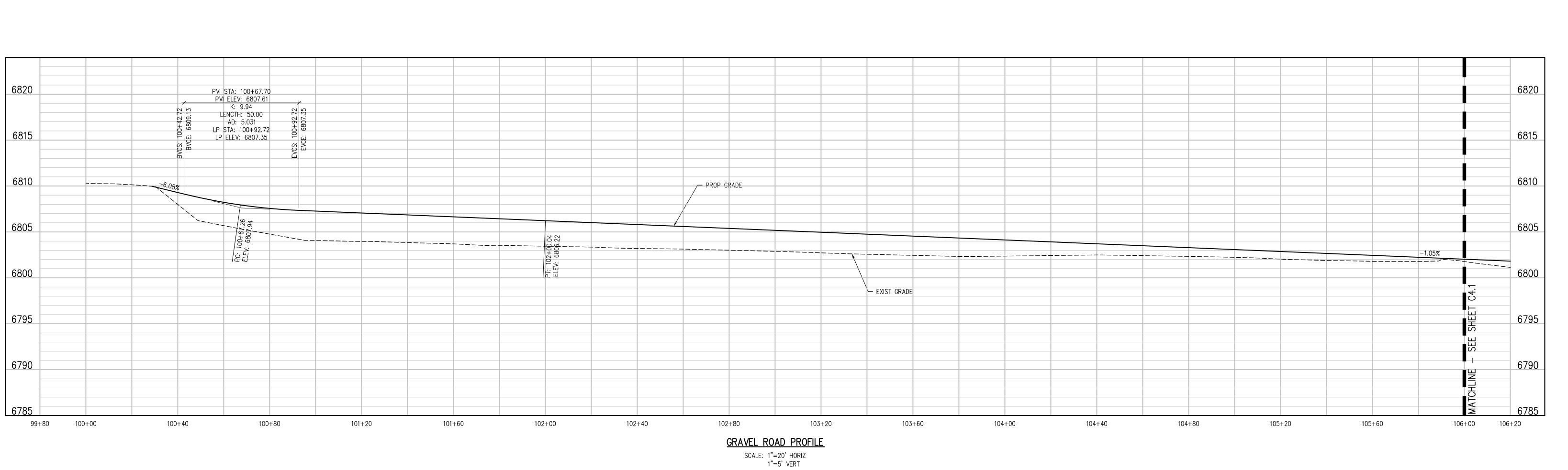


nclude applicable EPC Engineering Criteria Manual details for the improvements within Swingline Rd ROW.

Check Appendix F if there are any other applicable details.

HORIZONTAL CONTROL DETAILS

RTA PROJECT NUMBER





GRAVEL ROAD
PLAN AND
PROFILE

RTA PROJECT NUMBER

2021-041.00

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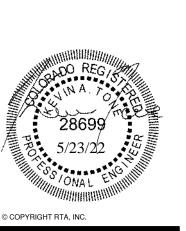
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GRAVEL ROAD

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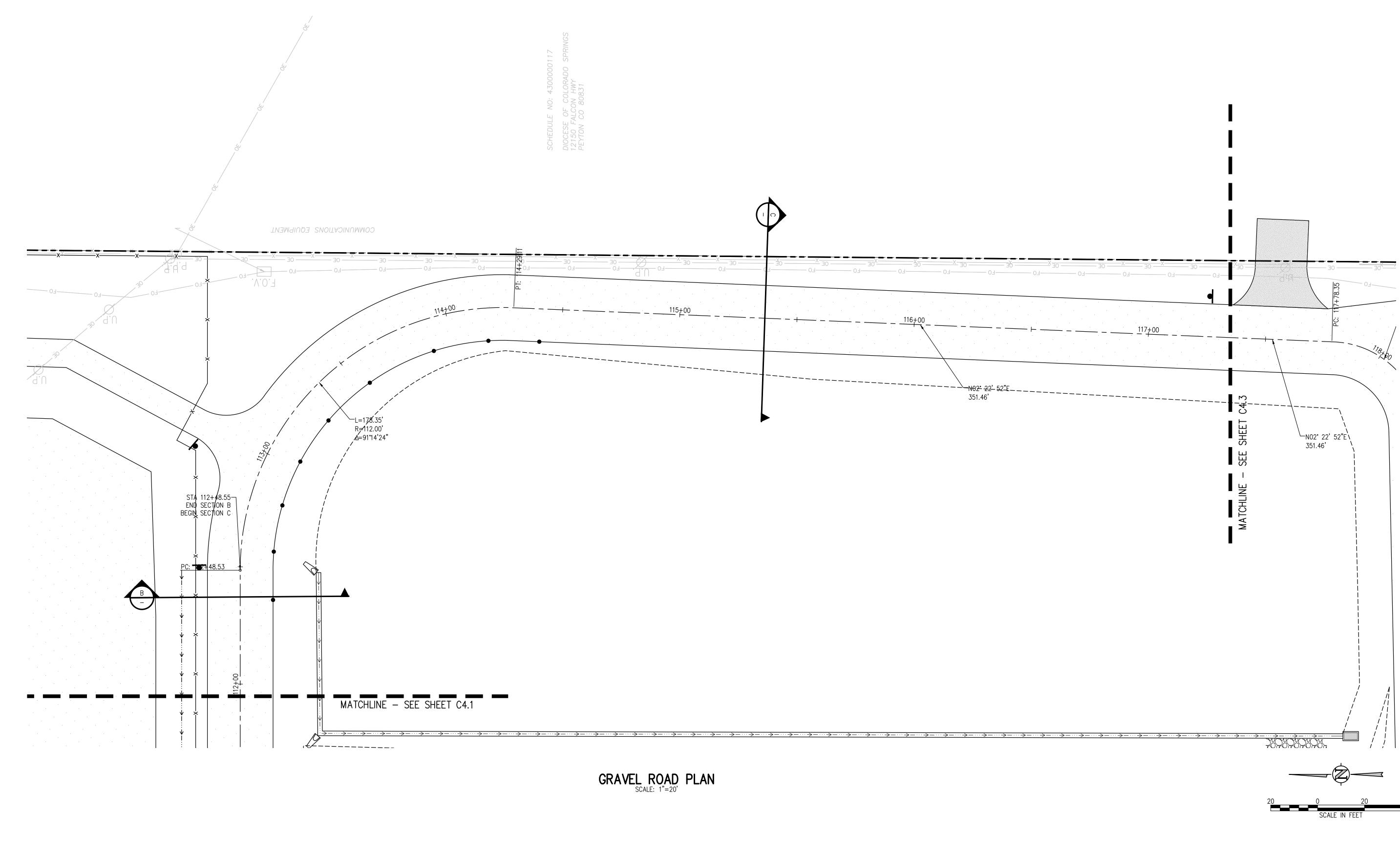
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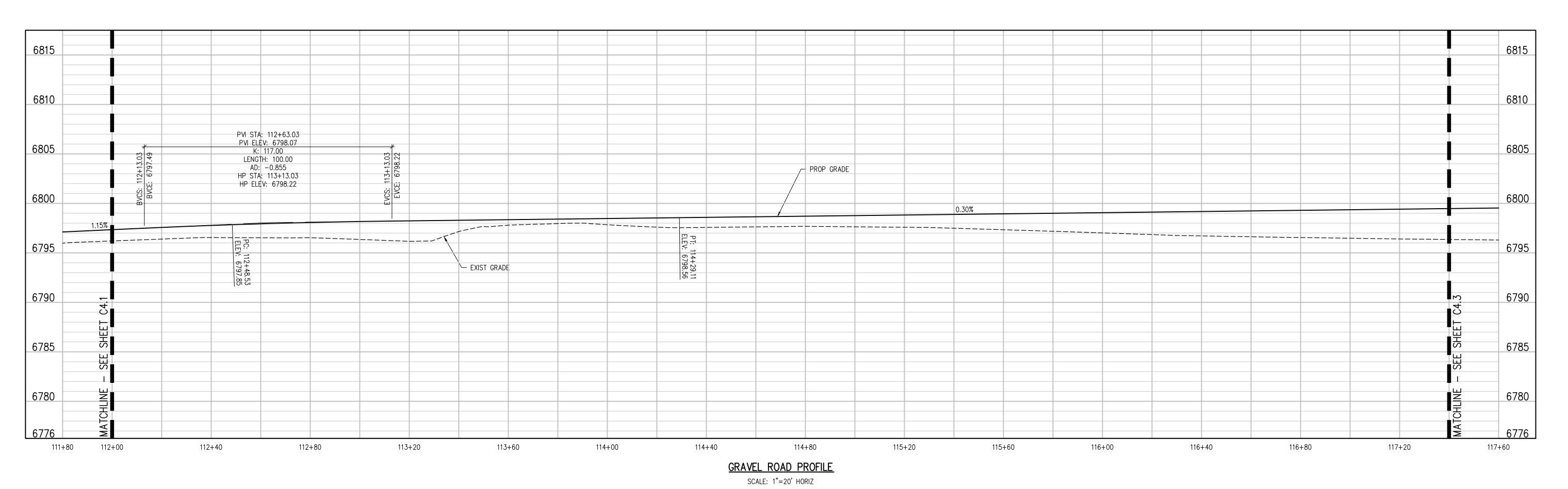
QA/QC APPROVAL:
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CHECKED BY:

ISSUED FOR:
CONSTRUCTION
DOCUMENTS
SHEET NO.

CWK/HCM
TWW/AMB
CWK

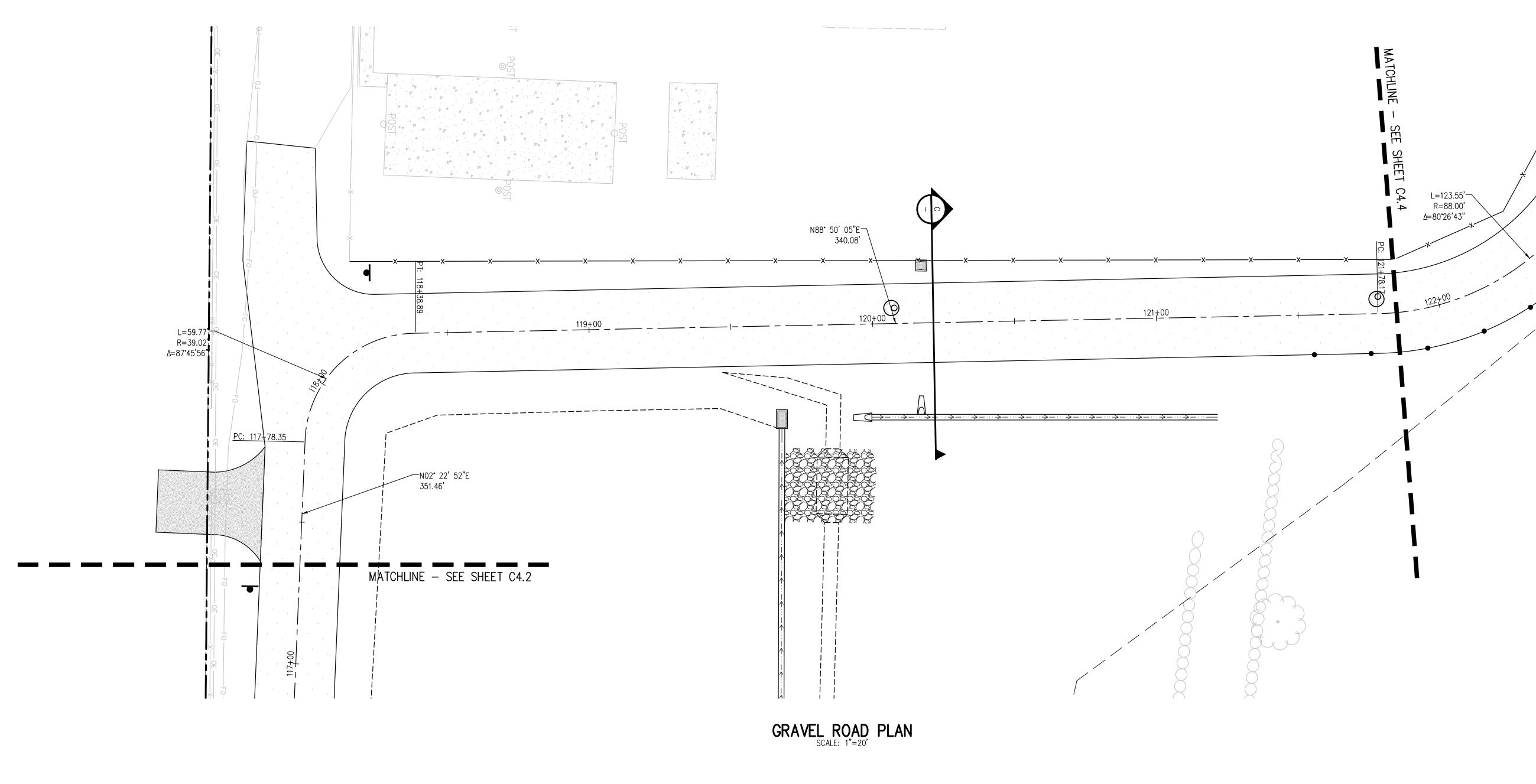
COLORADO SPRINGS, CO. 80903 TELE. 719-471-7566 FAX: 719-471-1174 www.rtaarchitects.com

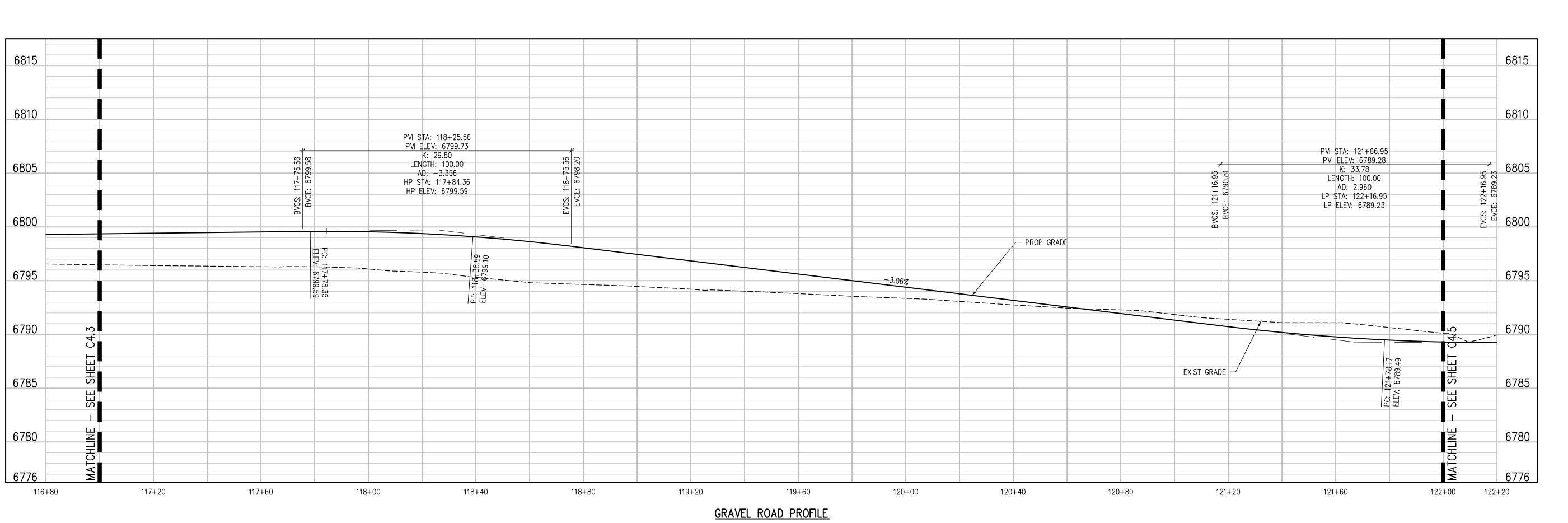




2021-041.00
DATE
05/23/2022
REVISIONS

ISSUED FOR:
CONSTRUCTION
DOCUMENTS
SHEET NO.

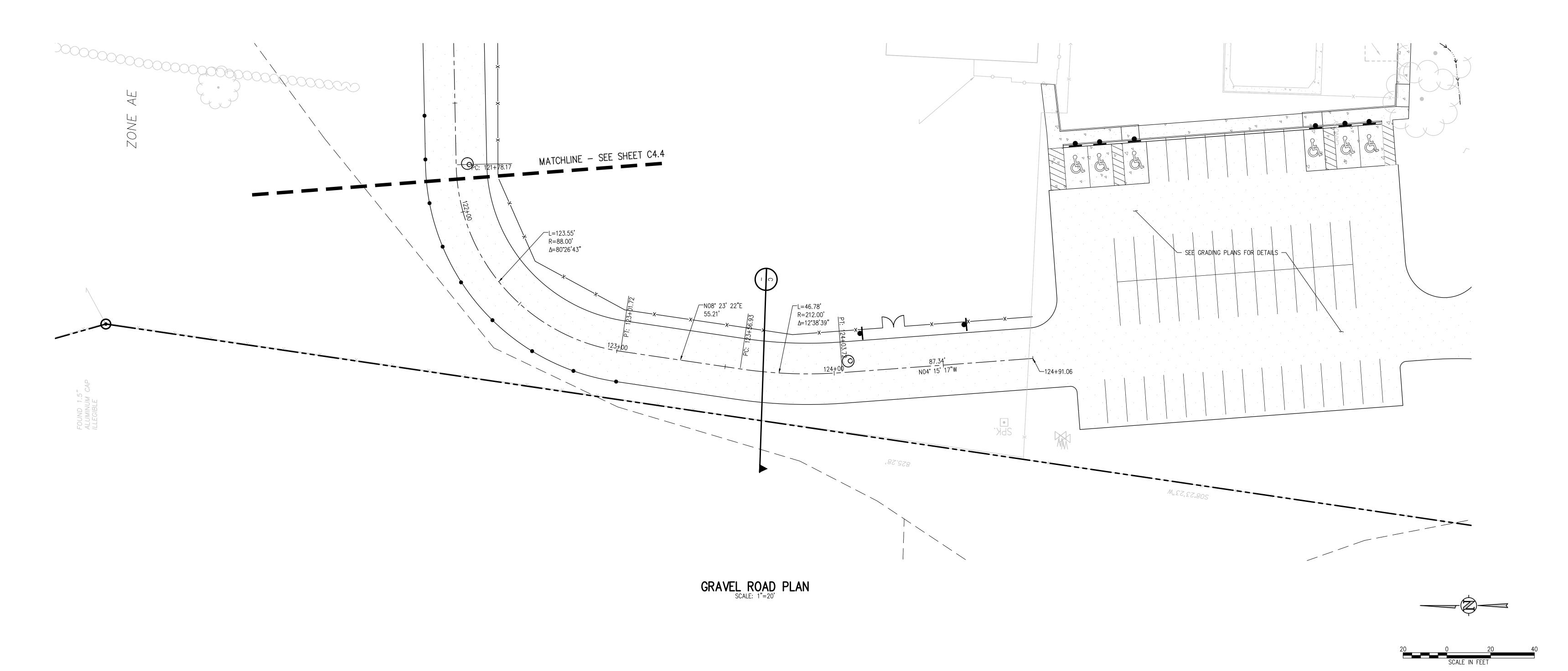


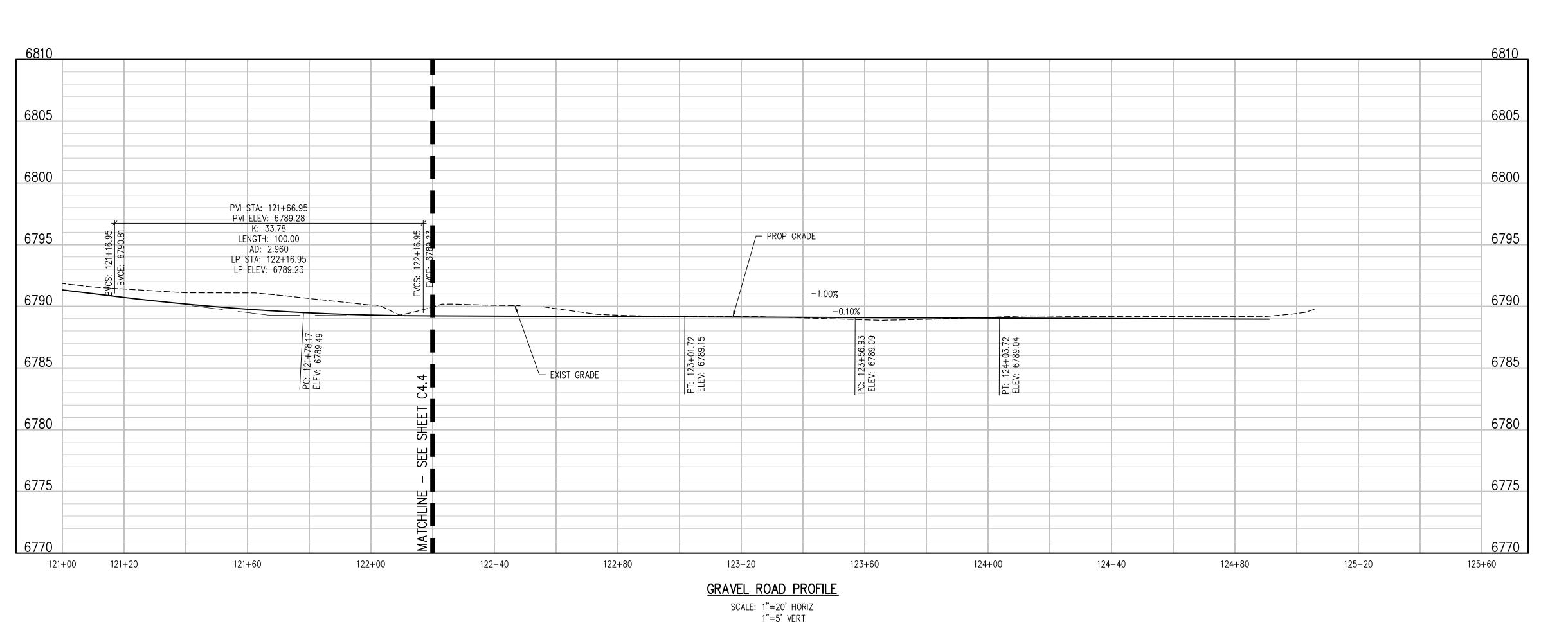


GRAVEL ROAD PROFILE

SCALE: 1"=20' HORIZ







28699

28699

5/23/22

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GRAVEL ROAD PLAN AND PROFILE

RTA PROJECT NUMBER
2021-041.00
DATE
05/23/2022
REVISIONS
REVISIONS

DC APPROVAL: CWK/HCM



SHEET TITLE

GRAVEL ROAD

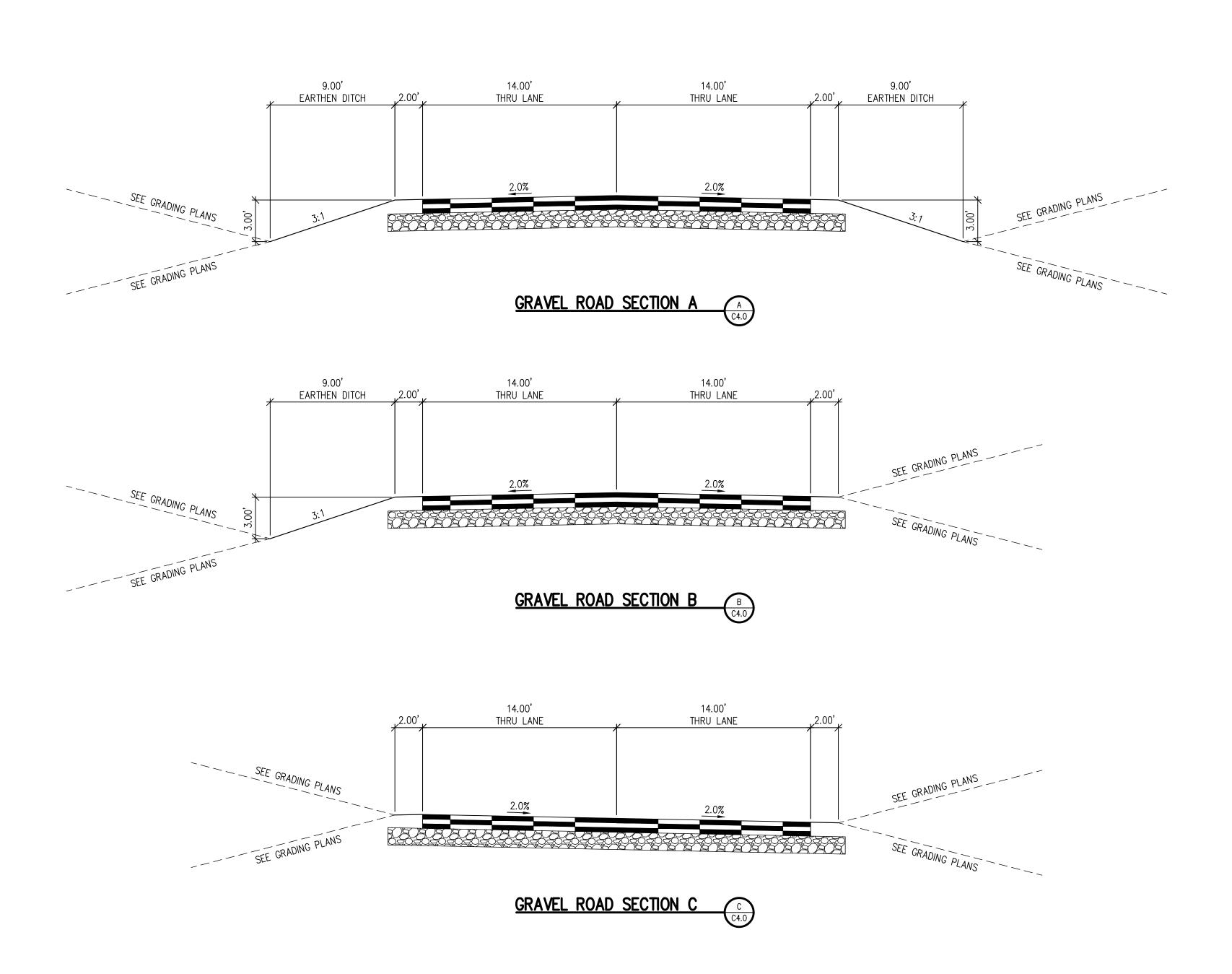
SECTIONS

RTA PROJECT NUMBER
2021-041.00
DATE
05/23/2022
REVISIONS

QA/QC APPROVAL:
DRAWN BY:
CHECKED BY:

CWK/HCI
TWW/AM
CWK

CONSTRUCTION DOCUMENTS
SHEET NO.



Construction Drawings Plans-Profiles_V1.pdf Markup Summary

8/10/2022 10:00:29 AM (1)



Subject: Text Box

Page Label: [57] CD3.1 HORIZONTAL CONTROL DETAILS

Author: dsdlaforce

Date: 8/10/2022 10:00:29 AM

Status: Color: Layer: Space: Include applicable EPC Engineering Criteria Manual details for the improvements within

Swingline Rd ROW.

SD_2-20 SD_2-40 SD_2-41 SD-2-42

Check Appendix F if there are any other applicable details.

8/10/2022 10:01:55 AM (1)



Subject: Callout

Page Label: [56] CD3.0 HORIZONTAL CONTROL DETAILS

Author: dsdlaforce

Date: 8/10/2022 10:01:55 AM

Status: Color: Layer: Space: Identify this is internal to the site for private improvements.

Public improvements shall reference County standard details.

8/10/2022 10:05:39 AM (1)



Subject: Callout

Page Label: [59] C4.1 GRAVEL ROAD PLAN AND PROFILE

Author: dsdlaforce

Date: 8/10/2022 10:05:39 AM

Status: Color: Layer: Space: Provide line/curve data for the centerline alignment. (bearings, distance, radius, delta, etc.)

8/10/2022 10:07:36 AM (1)



Subject: Callout

Page Label: [47] C3.0 OVERALL HORIZONTAL CONTROL

PLAN

Author: dsdlaforce

Date: 8/10/2022 10:07:36 AM

Status: Color: Layer: Space: See comment on the traffic impact study Figure 1. If total traffic exceed 200 ADT then road shall be asphalt paving with phase 1 to comply with Colorado Air Quality Control regulations. See ECM 2.2.7

8/10/2022 6:56:43 AM (1)



Subject: Callout

Page Label: [24] C1.1 GRADING AND DRAINAGE PLAN A

Author: dsdlaforce Date: 8/10/2022 6:56:43 AM

Status: Color: Layer: Space: show the riprap on the grading plan. Typical for

8/10/2022 6:58:00 AM (1)



Subject: Callout

Page Label: [35] C1.12 DIVERSION STORM SEWER PLAN

AND PROFILE

Author: dsdlaforce

Date: 8/10/2022 6:58:00 AM

Status: Color: Layer: Space: show the riprap on the storm P&P. Typical for all.

8/10/2022 7:00:42 AM (1)



Subject: Callout

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dsdlaforce

Date: 8/10/2022 7:00:42 AM

Status: Color: Layer: Space: Provide detail for the riprap.

Label riprap LxWxD and Type. Typical for all.

Provide riprap sizing calculation in the drainage

report.

8/10/2022 7:01:02 AM (1)



Subject: Callout

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dsdlaforce

Date: 8/10/2022 7:01:02 AM

Status: Color: Layer: Space: provide stormdrain sizing calculation in the drainage report

8/10/2022 7:06:20 AM (1)



Subject: Callout

Page Label: [24] C1.1 GRADING AND DRAINAGE PLAN A

Author: dsdlaforce

Date: 8/10/2022 7:06:20 AM

Status: Color: Layer: Space: provide construction detail.

Provide hydraulic calculation in the drainage

report.

8/10/2022 7:14:30 AM (1)



Subject: Callout

Page Label: [29] C1.6 GRADING AND DRAINAGE PLAN F

Author: dsdlaforce

Date: 8/10/2022 7:14:30 AM

Status: Color: Layer: Space: Provide forebay at each inflow pipe.

Realign low flow trickle channel. This should not

be going into the forebay to the west.

8/10/2022 7:17:23 AM (1)



Subject: Callout

Page Label: [30] C1.7 GRADING AND DRAINAGE PLAN G

Author: dsdlaforce Date: 8/10/2022 7:17:23 AM

Status: Color: Layer: Space: Proposed road improvement needs to be treated for WQCV.

Either drain into the pond to the north or provide

additional WQ/Det facility.

8/10/2022 7:18:10 AM (1)



Subject: Cloud

Page Label: [30] C1.7 GRADING AND DRAINAGE PLAN G

Author: dsdlaforce

Date: 8/10/2022 7:18:10 AM

Status: Color: Layer: Space:

8/10/2022 7:18:37 AM (1)



Subject: Cloud

Page Label: [31] C1.8 GRADING AND DRAINAGE PLAN H

Author: dsdlaforce

Date: 8/10/2022 7:18:37 AM

Status: Color: Layer: Space:

8/10/2022 7:18:51 AM (1)



Subject: Text Box

Page Label: [31] C1.8 GRADING AND DRAINAGE PLAN H

Author: dsdlaforce Date: 8/10/2022 7:18:51 AM

Status:
Color: Layer:
Space:

provide WQ/Detention

8/10/2022 7:20:11 AM (1)



Subject: Callout

Page Label: [32] C1.9 STORM SEWER MAIN PLAN AND

PROFILE

Author: dsdlaforce

Date: 8/10/2022 7:20:11 AM

Status: Color: Layer: Space: label all storm sewer mains as private.

8/10/2022 7:35:01 AM (1)

Subject: Text Box

Page Label: [33] C1.10 STORM SEWER MAIN PLAN AND

PROFILE

Author: dsdlaforce

Date: 8/10/2022 7:35:01 AM

Status: Color: Layer: Space: Show the EGL and adjust minimum pipe size to 18" per ECM 3.3.1.C.

8/10/2022 7:36:21 AM (1)



Subject: Dimension

Page Label: [33] C1.10 STORM SEWER MAIN PLAN AND

PROFILE

Author: dsdlaforce

Date: 8/10/2022 7:36:21 AM

Status: Color: Layer: Space:

8/10/2022 7:37:14 AM (1)



Subject: Callout

Page Label: [33] C1.10 STORM SEWER MAIN PLAN AND

PROFILE

Author: dsdlaforce

Date: 8/10/2022 7:37:14 AM

Status: Color: Layer: Space: Add dimension label which notes minimum cover

from ground surface to top of pipe is 1 ft.

8/10/2022 7:37:58 AM (1)



Subject: Callout

Page Label: [33] C1.10 STORM SEWER MAIN PLAN AND

PROFILE

Author: dsdlaforce

Date: 8/10/2022 7:37:58 AM

Status: Color: Layer: Space: update. FG to tie into existing grade.

8/10/2022 7:39:42 AM (1)



Subject: Line

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce

Date: 8/10/2022 7:39:42 AM

Status: Color: Layer: Space:

8/10/2022 7:39:48 AM (1)

P OF BERM —

Subject: Line

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce Date: 8/10/2022 7:39:48 AM

Status: Color: Layer: Space:

8/10/2022 7:39:53 AM (1)



Subject: Highlight

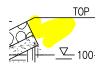
Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce

Date: 8/10/2022 7:39:53 AM

Status: Color: Layer: Space:

8/10/2022 7:39:55 AM (1)



Subject: Highlight

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce

Date: 8/10/2022 7:39:55 AM

Status: Color: Layer: Space:

8/10/2022 7:40:10 AM (1)



Subject: Callout

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce Date: 8/10/2022 7:40:10 AM

Status: Color: Layer: Space:

8/10/2022 7:40:54 AM (1)



Subject: Callout

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce

Date: 8/10/2022 7:40:54 AM

Status: Color: Layer: Space:

8/10/2022 7:43:04 AM (1)



Subject: Callout

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce

Date: 8/10/2022 7:43:04 AM

Status: Color: Layer: Space: Revise riprap at toe. See snippet above.

provide sizing calculation in the drainage report.

extend.

8/10/2022 7:43:08 AM (1)



Subject: Image

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce Date: 8/10/2022 7:43:08 AM

Status: Color: Layer: Space:

8/10/2022 7:44:00 AM (1)



Subject: Callout

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dsdlaforce

Date: 8/10/2022 7:44:00 AM

Status: Color: Layer: Space: Revise to soil riprap and adjust thickness to 2x D50

8/10/2022 7:46:31 AM (1)



Subject: Text Box

Page Label: [38] C2.0 OVERALL UTILITY PLAN

Author: dsdlaforce

Date: 8/10/2022 7:46:31 AM

Status: Color: Layer: Space: Coordinate with the water and sewer district for their signature block that goes on the title sheet.

8/10/2022 7:50:48 AM (1)



Subject: Text Box

Page Label: [29] C1.6 GRADING AND DRAINAGE PLAN F

Author: dsdlaforce

Date: 8/10/2022 7:50:48 AM

Status: Color: Layer: Space: Provide maintenance access path to the bottom of pond towards the forebays and outlet structure.

8/10/2022 7:53:08 AM (1)



Subject: Callout

Page Label: [45] C2.7 WATER PLAN B

Author: dsdlaforce

Date: 8/10/2022 7:53:08 AM

Status: Color: Layer: Space: Change linetype of existing water line so it's different from the proposed water line.

8/10/2022 8:27:12 AM (1)



Subject: Callout

Page Label: [49] C3.2 HORIZONTAL CONTROL PLAN B

Author: dsdlaforce

Date: 8/10/2022 8:27:12 AM

Status: Color: Layer: Space: Add C&G ramp and sidewalk.

8/10/2022 8:31:10 AM (1)



Subject: Callout

Page Label: [49] C3.2 HORIZONTAL CONTROL PLAN B

Author: dsdlaforce
Date: 8/10/2022 8:31:10 AM

Status: Color: Layer: Space: update callout to "EPC Type A C&G".
This only applies to the C&G within the public ROW.

Include the county detail in the CDs (Detail SD_-20)

8/10/2022 8:58:22 AM (1)



Subject: Image

Page Label: [48] C3.1 HORIZONTAL CONTROL PLAN A

Author: dsdlaforce

Date: 8/10/2022 8:58:22 AM

Status: Color: Layer: Space:

8/10/2022 9:01:29 AM (1)



Subject: Text Box

Page Label: [48] C3.1 HORIZONTAL CONTROL PLAN A

Author: dsdlaforce

Date: 8/10/2022 9:01:29 AM

Status: Color: Layer: Space: Pave parking area per Land Development Code section 6.2.5.C.2.c or request an alternative parking. Coordinate with the planner for specific requirements of an alternative parking request.

8/10/2022 9:01:37 AM (1)



Subject: Text Box

Page Label: [49] C3.2 HORIZONTAL CONTROL PLAN B

Author: dsdlaforce Date: 8/10/2022 9:01:37 AM

Status: Color: Layer: Space: Pave parking area per Land Development Code section 6.2.5.C.2.c or request an alternative parking. Coordinate with the planner for specific requirements of an alternative parking request.

8/10/2022 9:01:48 AM (1)



Subject: Text Box

Page Label: [55] C3.8 HORIZONTAL CONTROL PLAN H

Author: dsdlaforce

Date: 8/10/2022 9:01:48 AM

Status: Color: Layer: Space: Pave parking area per Land Development Code section 6.2.5.C.2.c or request an alternative parking. Coordinate with the planner for specific requirements of an alternative parking request.

8/6/2022 4:40:46 PM (1)

ER REVIEW COMMENTS ARE

Subject: Stormwater Comments Color Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS
Author: dotprete

Date: 8/6/2022 4:40:46 PM

Status: Color: Layer: Space:

8/6/2022 5:12:12 PM (1)



Subject: Engineer

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dotprete

Date: 8/6/2022 5:12:12 PM

Status: Color: ■ Layer: Space: Provide a typical drainage swale detail

8/6/2022 5:12:57 PM (1)



Subject: Engineer

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dotprete

Date: 8/6/2022 5:12:57 PM

Status: Color: ■ Layer: Space: line type doesnt match whats shown on the plans

8/6/2022 5:13:42 PM (1)



Subject: Engineer

Page Label: [11] CE1.0 OVERALL EROSION CONTROL

PLAN

Author: dotprete

Date: 8/6/2022 5:13:42 PM

Status: Color: ■ Layer: Space: Item V. Label all proposed temporary construction BMPs by phase of implementation (initial, interim, final).

8/6/2022 5:14:08 PM (1)



Subject: Engineer

Page Label: [11] CE1.0 OVERALL EROSION CONTROL

PLAN

Author: dotprete

Date: 8/6/2022 5:14:08 PM

Status: Color: ■ Layer: Space: Items H and M. If "limits of disturbance" and "construction boundary" are the same, change to "limits of construction/disturbance" or otherwise show as separate line types for each on the legend and figure.

8/6/2022 5:20:50 PM (1)



Subject: Engineer

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dotprete

Date: 8/6/2022 5:20:50 PM

Status:
Color: Layer:
Space:

define

8/6/2022 5:23:06 PM (1)



Subject: Engineer

Page Label: [13] CE1.2 EROSION CONTROL PLAN B

Author: dotprete

Date: 8/6/2022 5:23:06 PM

Status: Color: ■ Layer: Space: consider moving CWA away from grass swale to avoid contamination

8/6/2022 5:25:27 PM (1)



Subject: Engineer

Page Label: [16] CE1.5 EROSION CONTROL PLAN E

Author: dotprete

Date: 8/6/2022 5:25:27 PM

Status: Color: ■ Layer: Space: label contours

8/6/2022 5:26:00 PM (1)



Subject: Engineer

Page Label: [16] CE1.5 EROSION CONTROL PLAN E

Author: dotprete

Date: 8/6/2022 5:26:00 PM

Status: Color: ■ Layer: Space: Provide details of temporary sediment basin including riser pipe diameter and perforation sizing, number of rows of holes, required volume, location of outlet pipe and spillway, and tributary area to the sediment basin. And provide contours for sediment basin.

8/6/2022 5:27:21 PM (1)



Subject: Arrow

Page Label: [16] CE1.5 EROSION CONTROL PLAN E

Author: dotprete

Date: 8/6/2022 5:27:21 PM

Status: Color: Layer: Space:

8/6/2022 5:27:29 PM (1)



Subject: Engineer

Page Label: [16] CE1.5 EROSION CONTROL PLAN E

Author: dotprete

Date: 8/6/2022 5:27:29 PM

Status: Color: ■ Layer: Space: allow flow from upstream to enter TSB

8/6/2022 5:42:41 PM (1)



Subject: Engineer

Page Label: [17] CE1.6 EROSION CONTROL PLAN F

Author: dotprete

Date: 8/6/2022 5:42:41 PM

Status: Color: Layer: Space: define

8/8/2022 1:35:43 PM (4)



Subject: Callout

Page Label: [11] CE1.0 OVERALL EROSION CONTROL

PLAN

Author: dsdlaforce

Date: 8/8/2022 1:35:43 PM

Status: Color: Layer: Space: Revise line weight or shading so the FEMA 100yr floodplain is more visible.



Subject: Image

Page Label: [11] CE1.0 OVERALL EROSION CONTROL

PLĂN

Author: dsdlaforce

Date: 8/8/2022 1:35:43 PM

Status: Color: Layer: Space:

Subject: Highlight

Page Label: [11] CE1.0 OVERALL EROSION CONTROL

PLAN

Author: dsdlaforce

Date: 8/8/2022 1:35:43 PM

Status: Color: Layer: Space:



Subject: Callout

Page Label: [11] CE1.0 OVERALL EROSION CONTROL

PLĂN

Author: dsdlaforce

Date: 8/8/2022 1:35:43 PM

Status: Color: Layer: Space: Adjust FFE to be 1' above the estimated 100yr flood elevation per DCM Chapter 1 Section 1.4.

Contact the Floodplain Administrator (Keith Curtis) at PPRB to verify if they have specific

at I I ND to verify if they have specific

requirements. Add a section on the Final Drainage

Report for "Other Government Agency

Requirements" and discuss the outcome of your coordination with the Floodplain Administrator.

Extend existing contours offsite. Based on the proposed contours and the adjacent BFE then it appears the 100yr flow would spread into the site further than the FEMA 100yr floodplain boundary indicates.

Alternatively, if the surveyed contours on a different Datum then you may want to explain on the drainage report and add a note on the GEC.

8/8/2022 9:06:35 AM (1)

holds have of being and decision on the 6th cheek.

Subject: Callout

Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS
Author: dsdlaforce
Date: 8/8/2022 9:06:35 AM

Status: Color: Layer: Space: Include basis of bearing and elevation on the title sheet.

8/8/2022 9:08:14 AM (1)



Subject: File Attachment

Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS **Author:** dsdlaforce **Date:** 8/8/2022 9:08:14 AM

Status: Color: Layer: Space:

8/8/2022 9:08:21 AM (1)



Subject: Text Box

Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS

Author: dsdlaforce

Date: 8/8/2022 9:08:21 AM

Status: Color: Layer: Space: Include signage and striping plan on the Construction Drawing Plan Set.

Add the standard signage and striping notes

attached.

8/9/2022 1:36:49 PM (1)



Subject: Engineer

Page Label: [3] C0.4 DEMOLITION PLAN A

Author: dotprete

Date: 8/9/2022 1:36:49 PM

Status: Color: Layer: Space: Note: all initial BMPs must be installed and a notice to proceed issued by the County Inspector prior to any soil disturbance.

8/9/2022 1:37:27 PM (1)



Subject: Engineer

Page Label: [11] CE1.0 OVERALL EROSION CONTROL

PLAN

Author: dotprete

Date: 8/9/2022 1:37:27 PM

Status: Color: ■ Layer: Space: We have been seeing a lot of blow outs when using straw bales in ditches after a large rain event. Consider using straw wattles or rock checks in lieu of straw bales.

8/9/2022 1:39:41 PM (1)



Subject: Engineer

Page Label: [13] CE1.2 EROSION CONTROL PLAN B

Author: dotprete

Date: 8/9/2022 1:39:41 PM

Status:
Color: Layer:
Space:

adjust the outlet and/or outlet protection to avoid 90 degree stormwater path.

8/9/2022 1:40:42 PM (1)



Subject: Engineer

Page Label: [13] CE1.2 EROSION CONTROL PLAN B

Author: dotprete

Date: 8/9/2022 1:40:42 PM

Status: Color: ■ Layer: Space: provide type and show where it will be placed. ECB and CSM hatching look identical

8/9/2022 1:41:32 PM (1)



Subject: Engineer

Page Label: [13] CE1.2 EROSION CONTROL PLAN B

Author: dotprete

Date: 8/9/2022 1:41:32 PM

Status: Color: ■ Layer: Space: provide detail

8/9/2022 1:43:48 PM (1)



Subject: Engineer

Page Label: [17] CE1.6 EROSION CONTROL PLAN F

Author: dotprete

Date: 8/9/2022 1:43:48 PM

Status: Color: ■ Layer: Space: provide a forebay for pond

8/9/2022 1:44:57 PM (1)



Subject: Engineer

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dotprete

Date: 8/9/2022 1:44:57 PM

Status: Color: ■ Layer: Space: provide a key on each sheet showing the location relative to the entire site

8/9/2022 1:46:20 PM (1)



Subject: Engineer

Page Label: [17] CE1.6 EROSION CONTROL PLAN F

Author: dotprete

Date: 8/9/2022 1:46:20 PM

Status: Color: ■ Layer: Space: where is this water going? how will this stormwater flow impact the pond discharge flow?

8/9/2022 1:48:29 PM (1)



Subject: Engineer

Page Label: [19] CE1.8 EROSION CONTROL PLAN H

Author: dotprete

Date: 8/9/2022 1:48:29 PM

Status: Color: Layer: Space:

include in limits of construction and limits of

disturbance and add BMPs

8/9/2022 1:52:15 PM (1)



Subject: Engineer

Page Label: [13] CE1.2 EROSION CONTROL PLAN B

Author: dotprete

Date: 8/9/2022 1:52:15 PM

Status: Color: Layer: Space:

define shading

8/9/2022 1:57:39 PM (1)



Subject: Engineer

Page Label: [15] CE1.4 EROSION CONTROL PLAN D

Author: dotprete

Date: 8/9/2022 1:57:39 PM

Status: Color: Layer: Space:

include temporary sediment basin to treat water before discharging to waters of the state

8/9/2022 2:00:25 PM (1)



Subject: Engineer

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dotprete

Date: 8/9/2022 2:00:25 PM

Status: Color: Layer: Space:

Item S. Show stormwater flow direction arrows for existing and proposed contours

Item P. Show areas of cut and fill

Item U. Show all stabilized staging areas and stockpile areas and appropriate BMPs

Item CC. Show all existing and proposed easements. Include drainage easements and

access easements for the EDB

Show all seeding and mulching areas (SWMP Checklist Item 17h)

8/9/2022 2:02:47 PM (1)



Subject: Engineer

Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS Author: dotprete

Date: 8/9/2022 2:02:47 PM

Status: Color: Layer: Space:

Item I. Include a note about existing vegetation.

To comply with the SWMP Checklist Item 17f, please add a note stating no batch plants will be

utilized onsite.

8/9/2022 2:09:03 PM (1)



Subject: Engineer

Page Label: [29] C1.6 GRADING AND DRAINAGE PLAN F

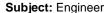
Author: dotprete

Date: 8/9/2022 2:09:03 PM

Status:
Color: Layer:
Space:

determine in drainage report if outlet protection is needed here

8/9/2022 2:27:48 PM (1)



Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dotprete

Date: 8/9/2022 2:27:48 PM

Status: Color: ■ Layer: Space: will review pond design with UD-Detention and UD-BMP calculation forms (see Drainage Report comments)

include forebay, trickle channel, and maintenance road details. show elevations on details

8/9/2022 2:28:39 PM (1)



Subject: Engineer

Page Label: [37] CD1.1 GRADING & DRAINAGE DETAILS

Author: dotprete

Date: 8/9/2022 2:28:39 PM

Status: Color: ■ Layer: Space: the micropools main function is to keep the trash rack from clogging and should be located

upstream of the trash rack.

8/9/2022 2:29:52 PM (1)

Subject: Engineer

Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS **Author:** dotprete

Date: 8/9/2022 2:29:52 PM

Status: Color: ■ Layer: Space: include a title sheet with a sheet index. vicinity map, signature blocks, and GEC notes (see GEC Checklist Items a, gg, ii, jj, and Section 3)

8/9/2022 3:09:23 PM (1)



Subject: File Attachment

Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS
Author: dsdlaforce
Date: 8/9/2022 3:09:23 PM

Status: Color: Layer: Space:

8/9/2022 3:10:45 PM (1)



Subject: Text Box

Page Label: [1] C0.1 LEGEND, NOTES AND

ABBREVIATIONS **Author:** dsdlaforce

Date: 8/9/2022 3:10:45 PM

Status: Color: Layer: Space: Include the standard El Paso County Construction Notes (attached) and standard EPC Grading and Erosion Control Plan (GEC) notes. See GEC

Checklist for GEC notes.

8/9/2022 3:17:21 PM (1)



Subject: Callout

Page Label: [2] C0.3 OVERALL DEMOLITION PLAN

Author: dsdlaforce

Date: 8/9/2022 3:17:21 PM

Status: Color: Layer: Space: Update either the site plan or the Demo Plan for consistency.

The site development plan phase 1 shows this area as not included in the scope of work.

8/9/2022 3:17:32 PM (1)



Subject: Cloud

Page Label: [2] C0.3 OVERALL DEMOLITION PLAN

Author: dsdlaforce Date: 8/9/2022 3:17:32 PM

Status: Color: Layer: Space:

8/9/2022 3:23:05 PM (1)



Subject: Callout

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dsdlaforce Date: 8/9/2022 3:23:05 PM

Status: Color: Layer: Space: Add the dotted hatch to the legend. Consider revising the pattern. It's barely visible on screen. Not sure if this shows up when printed.

8/9/2022 3:28:36 PM (1)



Subject: Callout

Page Label: [12] CE1.1 EROSION CONTROL PLAN A

Author: dsdlaforce

Date: 8/9/2022 3:28:36 PM

Status: Color: Layer: Space: extend existing contours. Unclear if there is a swale along the property line or runoff drains

offsite.

8/9/2022 3:45:10 PM (6)



Subject: Cloud

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce Date: 8/9/2022 3:45:10 PM

Status: Color: Layer: Space:



Subject: Highlight

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce Date: 8/9/2022 3:45:10 PM

Status: Color: Layer: Space:



Subject: Callout

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce

Date: 8/9/2022 3:45:10 PM

Status: Color: Layer: Space: Show the existing offsite C&G and sidewalk. Proposed sidewalk to connect to the existing

sidewalk



Subject: Highlight

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce Date: 8/9/2022 3:45:10 PM

Status: Color: Layer: Space:



Subject: Highlight

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce Date: 8/9/2022 3:45:10 PM

Status: Color: Layer: Space:



Subject: Highlight

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce Date: 8/9/2022 3:45:10 PM

Status: Color: Layer: Space:

8/9/2022 3:47:26 PM (1)



Subject: Callout

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce Date: 8/9/2022 3:47:26 PM

Status: Color: Layer: Space:

Provide C&G on the north side and extend

sidewalk.

provide pedestrian ramps at crossings on

Swingline road and modifiy the ramps accordingly.

8/9/2022 3:48:40 PM (1)



Subject: Callout

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce

Date: 8/9/2022 3:48:40 PM

Status: Color: Layer: Space:

Label and make the existing ROW line darker.

8/9/2022 3:53:39 PM (1)



Subject: Arrow

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce

Date: 8/9/2022 3:53:39 PM

Status: Color: Layer: Space:

8/9/2022 3:54:06 PM (1)



Subject: Text Box

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce Date: 8/9/2022 3:54:06 PM

Status: Color: Layer: Space:

2% max

8/9/2022 3:54:10 PM (1)



Subject: Callout

Page Label: [25] C1.2 GRADING AND DRAINAGE PLAN B

Author: dsdlaforce

Date: 8/9/2022 3:54:10 PM

Status: Color: Layer: Space:

Revise cross slope grade of pedestrian access route to 2% max.

8/9/2022 3:59:19 PM (1)



Subject: Callout

Page Label: [49] C3.2 HORIZONTAL CONTROL PLAN B

Author: dsdlaforce

Date: 8/9/2022 3:59:19 PM

Status: Color: Layer: Space:

provide ramp to the north. See detail SD 2_41 for ramp configuration at intersections