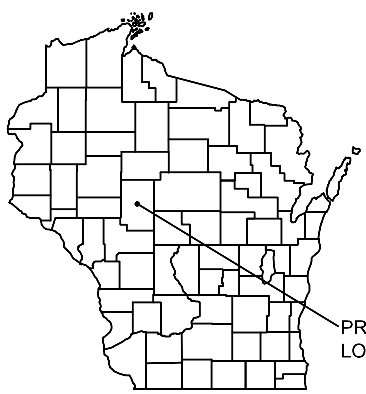
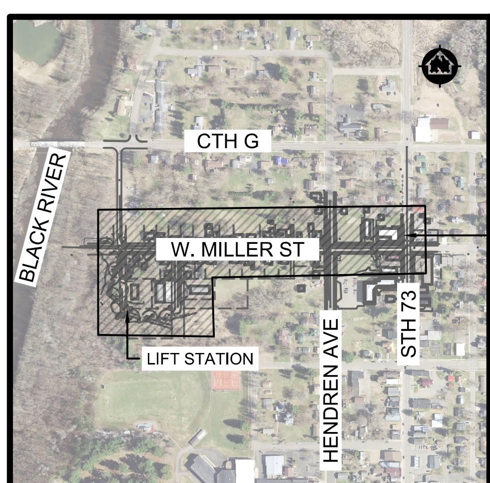
PROJECT A - W. MILLER ST. (REESE TO MAIN ST.)
PROJECT A - STAFFORD AVE. (MILLER TO TERMINI)
PROJECT B - LIFT STATION ROAD (MILLER TO TERMINI)

CITY OF GREENWOOD
CLARK COUNTY, WI

30% PLANS AS OF 1-8-23





LOCATION MAP

NOT TO SCALE

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CS 17-19	PROJECT A - STAFFORD STREET CROSS SECTIONS
CS 20-22	PROJECT B - LIFT STATION ROAD CROSS SECTIONS

LEGEND

EXISTING WATER MAIN
EXISTING WATER MAIN, VALVE & HYDRANT
EXISTING WATER SERVICE & CURB STOP
PROPOSED WATER MAIN, VALVE, & HYDRANT
PROPOSED WATER SERVICE & CURB STOP
EXISTING SANITARY SEWER & MANHOLE
PROPOSED SANITARY SEWER & MANHOLE
EXISTING FORCEMAIN
EXISTING STORM SEWER & INLET
PROPOSED STORM SEWER & INLET
PROPOSED STORM SEWER & MANHOLE
BURIED ELECTRIC
BURIED GAS & VALVE
BURIED CABLE TELEVISION
BURIED TELEPHONE
BURIED FIBER OPTICS
OVERHEAD UTILITY
RAILROAD TRACKS
EXISTING CURB & GUTTER
PROPOSED CURB & GUTTER
EXISTING SIDEWALK
PROPOSED SIDEWALK
EXISTING CULVERT PIPE
PROPOSED CULVERT PIPE
FENCE LINE
DRAINAGE ARROW
SILT FENCE
RIGHT-OF-WAY
BASELINE
PROPERTY LINE
TREE LINE
BENCHMARK
IRON PIPE
IRON ROD
CONTROL POINT
UTILITY POLE & GUY
SOIL BORING
LIGHT POLE
PEDESTAL
STREET SIGN
MAILBOX
FLAGPOLE
TREE - DECIDUOUS
TREE - CONIFEROUS
TREE TO BE REMOVED

UTILITIES

GAS:

ELECTRIC:

TELEPHONE:

SEWER & WATER:

CATV:

DIGGERS HOTLINE
Dial 811 or (800) 242-8511
www.DiggersHotline.com

NOTE:
UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE AND CONTRACTOR SHALL HAVE APPROPRIATE UTILITY MARK EXACT LOCATIONS PRIOR TO CONSTRUCTION.

		NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: JFK	.	.	.	.
	DESIGNED BY: DWB	.	.	.	.
	CHECKED BY: DWB	.	.	.	.

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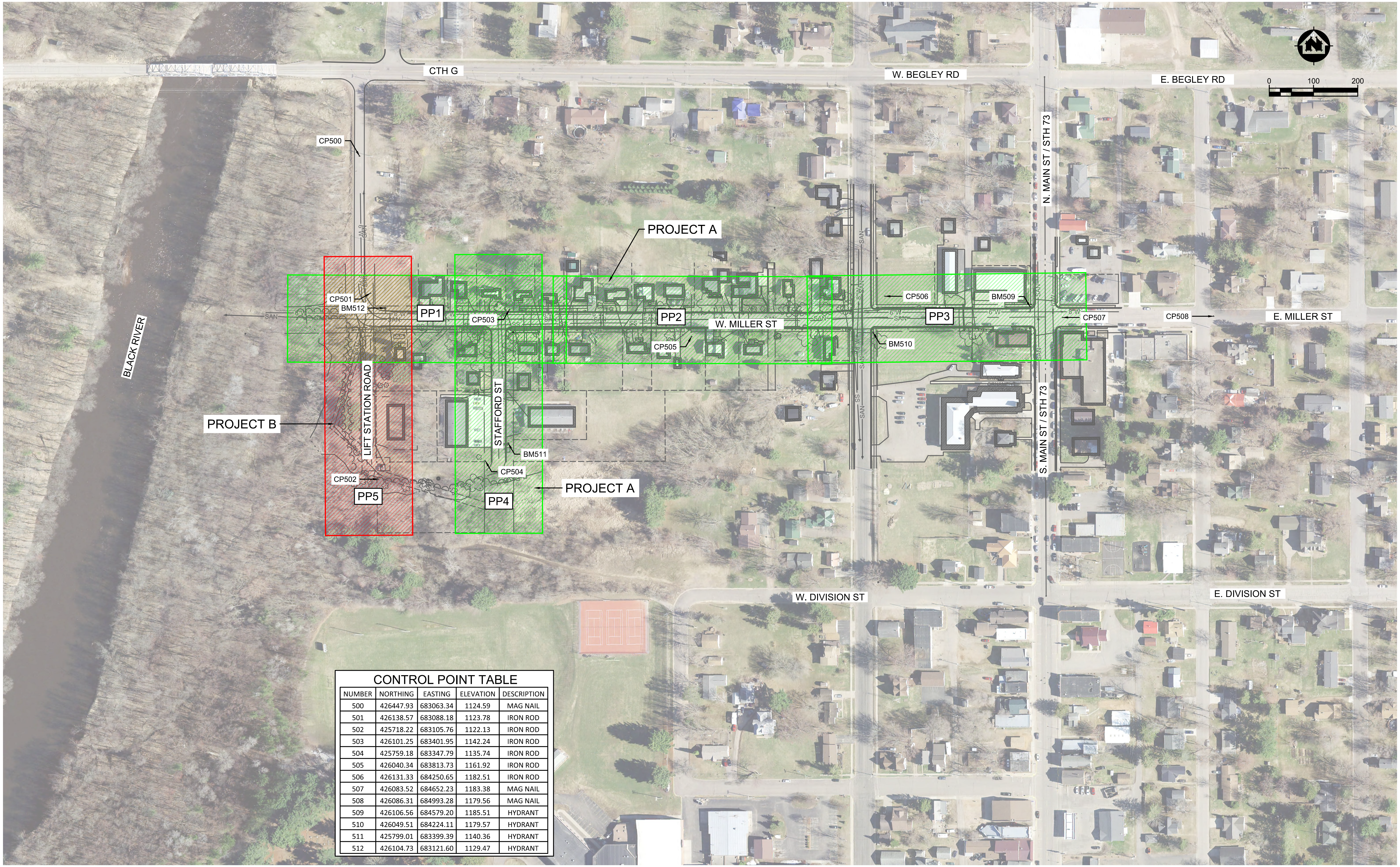
MILLER STREET RECONSTRUCTION
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

TITLE SHEET

PROJECT NO. 08781007

SHEET G 1



CONTROL POINT TABLE

NUMBER	NORTHING	EASTING	ELEVATION	DESCRIPTION
500	426447.93	683063.34	1124.59	MAG NAIL
501	426138.57	683088.18	1123.78	IRON ROD
502	425718.22	683105.76	1122.13	IRON ROD
503	426101.25	683401.95	1142.24	IRON ROD
504	425759.18	683347.79	1135.74	IRON ROD
505	426040.34	683813.73	1161.92	IRON ROD
506	426131.33	684250.65	1182.51	IRON ROD
507	426083.52	684652.23	1183.38	MAG NAIL
508	426086.31	684993.28	1179.56	MAG NAIL
509	426106.56	684579.20	1185.51	HYDRANT
510	426049.51	684224.11	1179.57	HYDRANT
511	425799.01	683399.39	1140.36	HYDRANT
512	426104.73	683121.60	1129.47	HYDRANT

		NO.	DATE	REVISION	BY
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	CHECKED BY: DWB	.	.	.	.

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MILLER STREET RECONSTRUCTION
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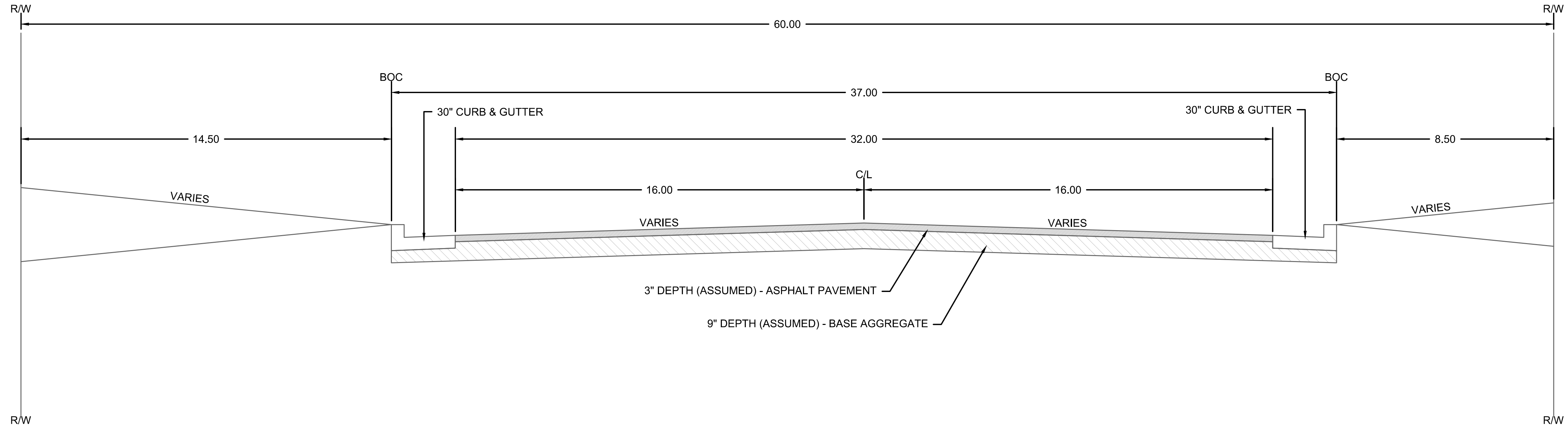
CLARK COUNTY, WISCONSIN

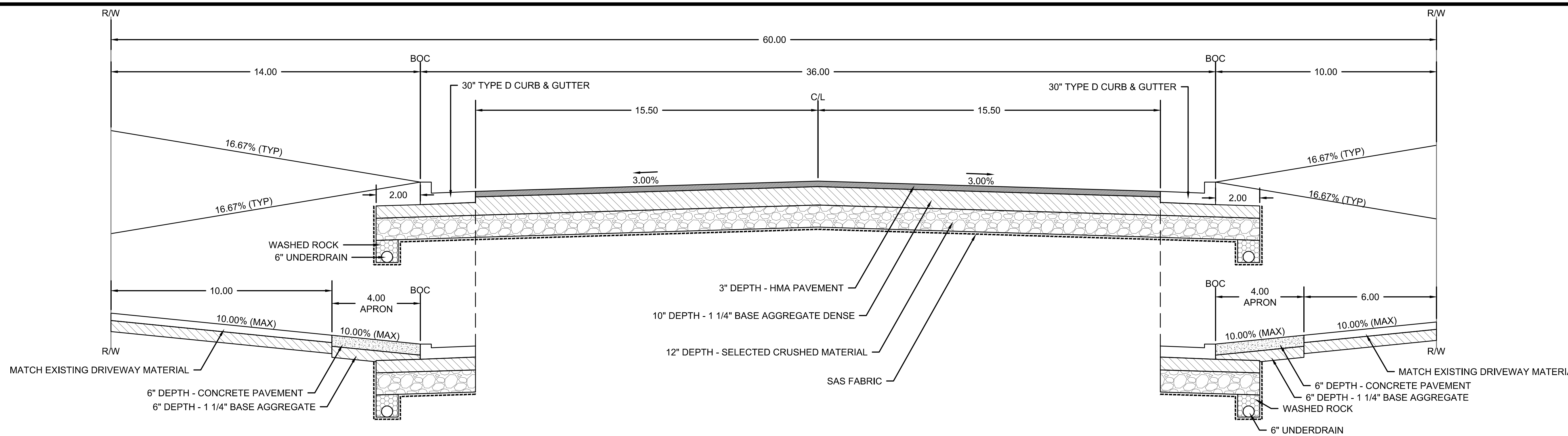
PROJECT OVERVIEW

PROJECT NO. 08781007
SHEET G 2



EXISTING TYPICAL SECTION - W. MILLER STREET (REESE TO HENDREN)

NO SCALE



PROPOSED TYPICAL SECTION - W. MILLER STREET (REESE TO HENDREN)

NO SCALE

DRIVEWAY LEFT

DRIVEWAY RIGHT

		NO.	DATE	REVISION	BY
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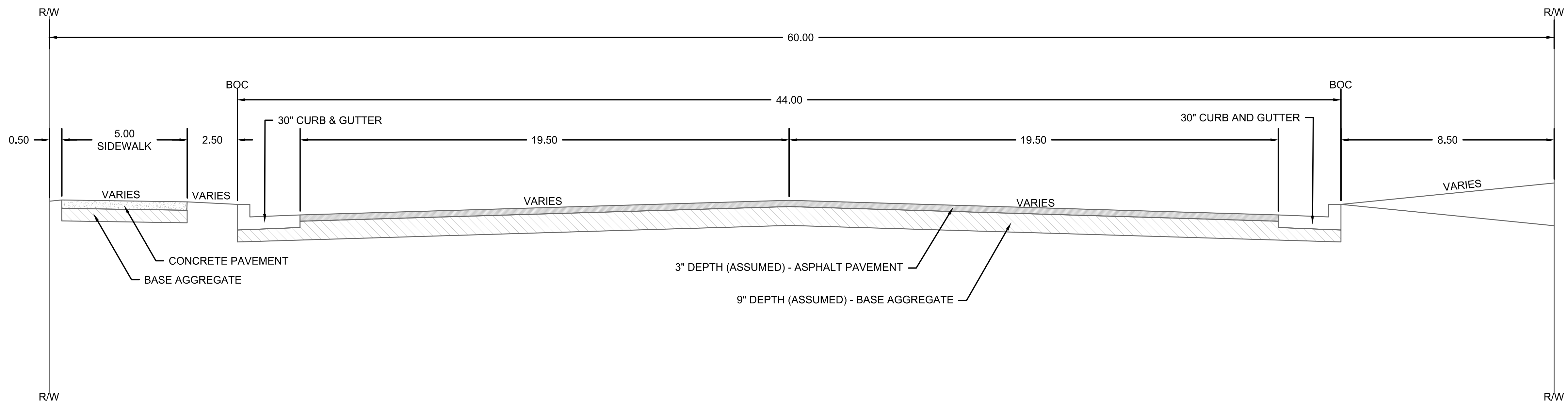
CLARK COUNTY, WISCONSIN

PROJECT A - W. MILLER STREET TYPICAL SECTION

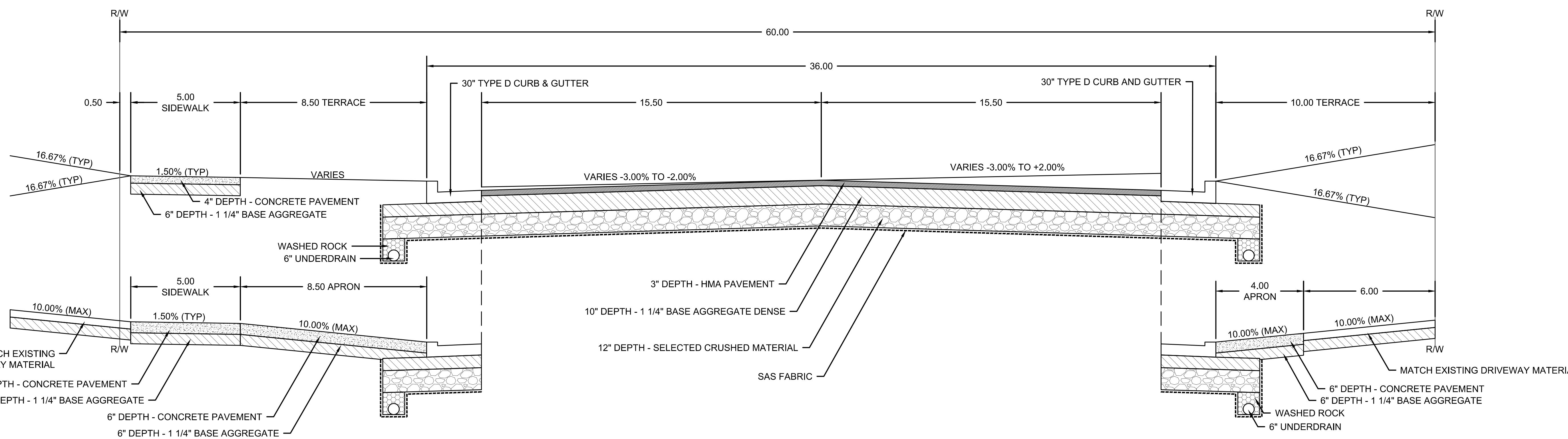
PROJECT NO. 08781007

SHEET G 3



EXISTING TYPICAL SECTION - W. MILLER STREET (HENDREN TO MAIN ST)

NO SCALE



PROPOSED TYPICAL SECTION - W. MILLER STREET (HENDREN TO MAIN ST)

NO SCALE

DRIVEWAY LEFT

DRIVEWAY RIGHT

		NO.	DATE	REVISION	BY
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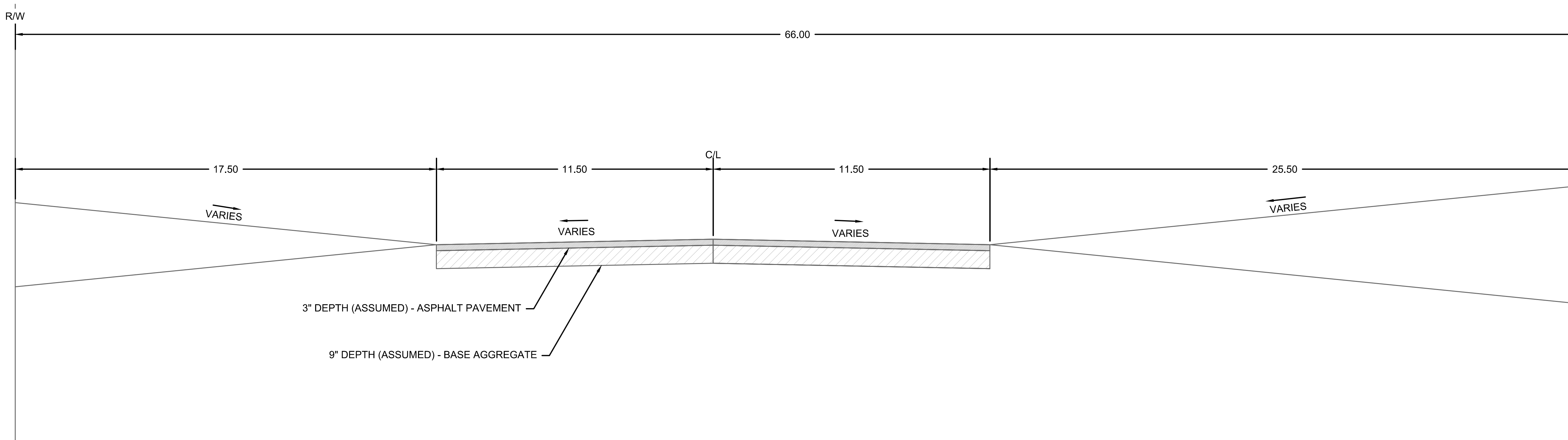
PROJECT A - W. MILLER STREET TYPICAL SECTION

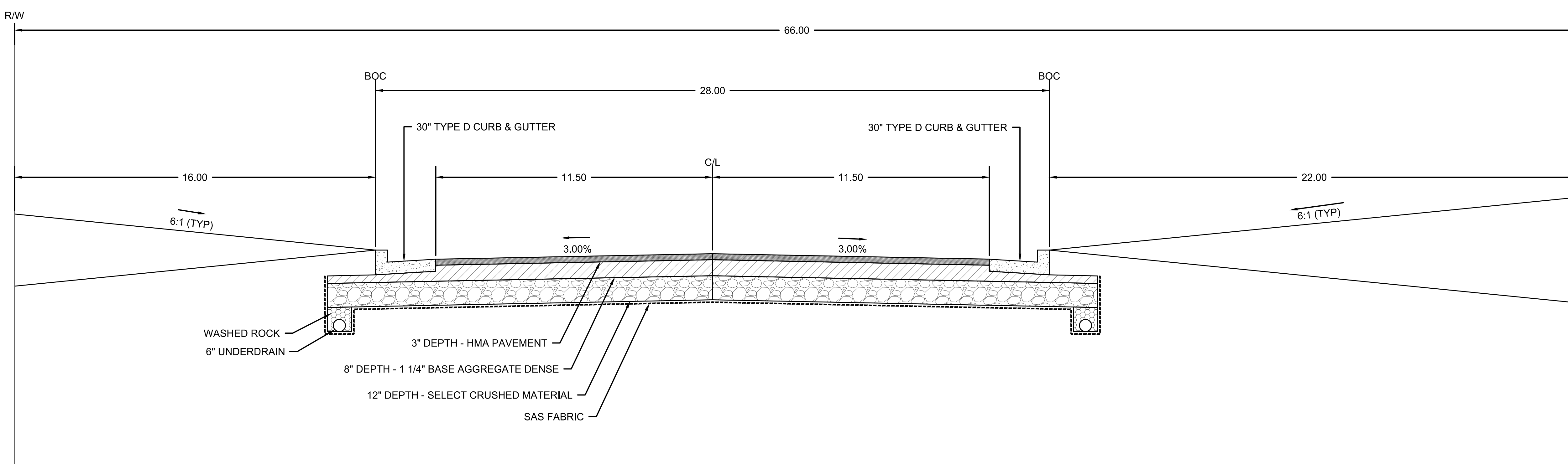
PROJECT NO. 08781007

SHEET G 4



EXISTING TYPICAL SECTION - N. REESE AVENUE

NO SCALE



PROPOSED TYPICAL SECTION - N. REESE AVENUE

NO SCALE

		NO.	DATE	REVISION	BY
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	DESIGNED BY: DWB	-	-	-	-
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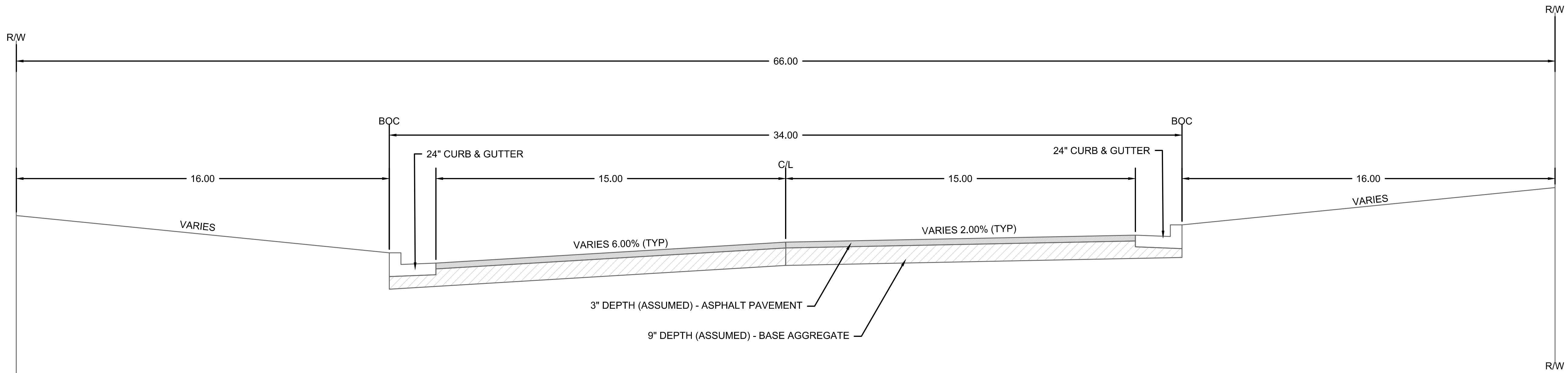
PROJECT A - N REESE AVENUE TYPICAL SECTION

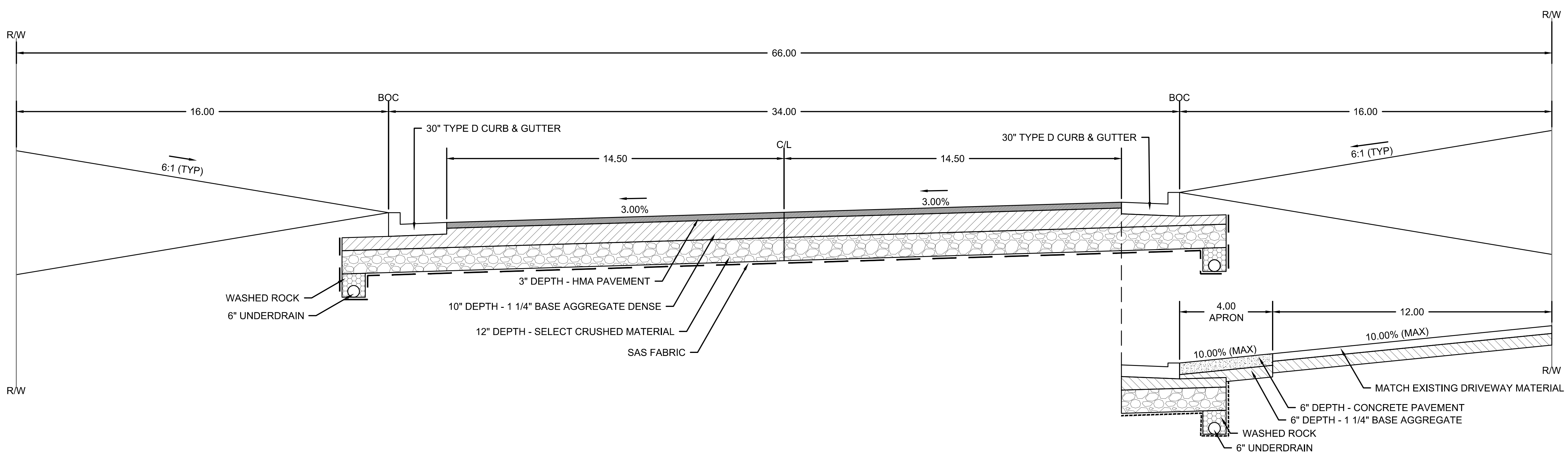
PROJECT NO. 08781007

SHEET G 5



EXISTING TYPICAL SECTION - STAFFORD STREET

NO SCALE



PROPOSED TYPICAL SECTION - STAFFORD STREET

NO SCALE

DRIVEWAY

		NO.	DATE	REVISION	BY
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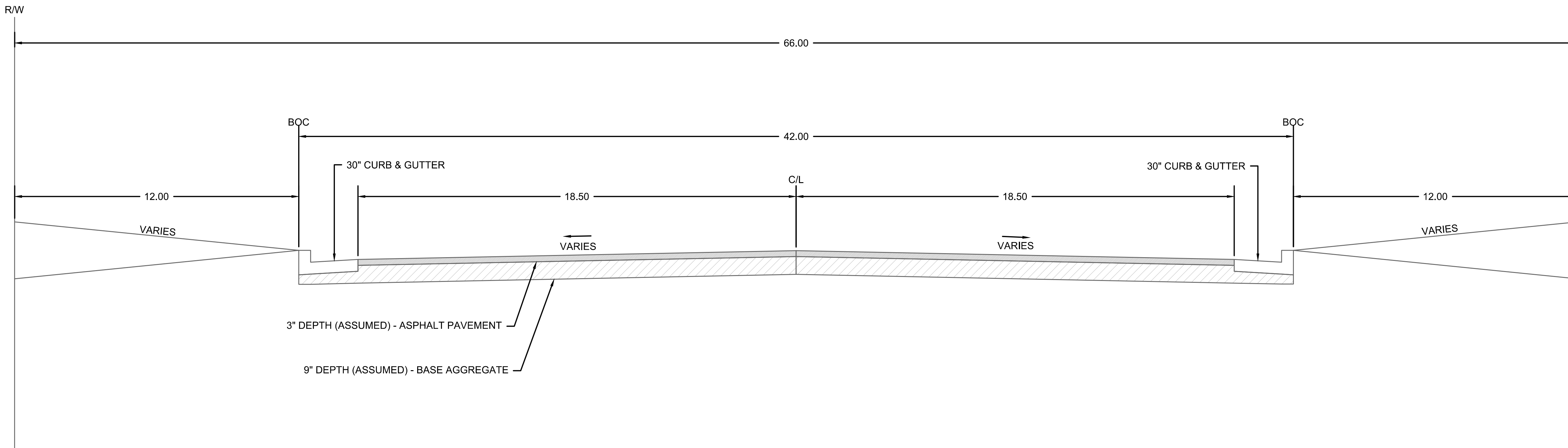
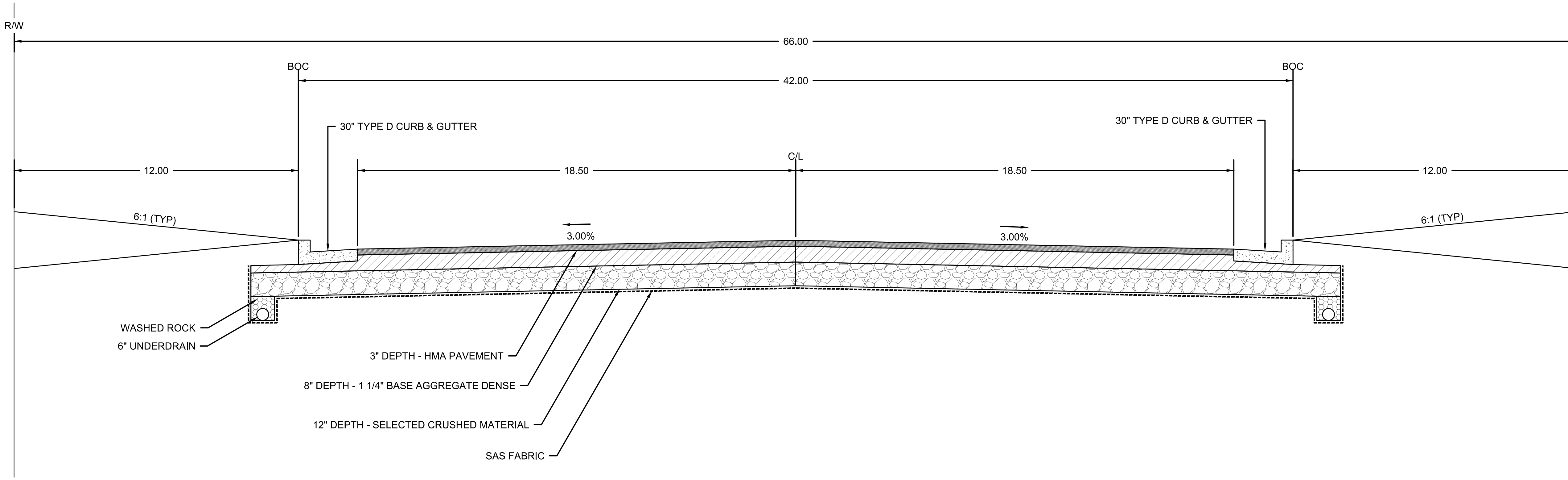
PROJECT A - N STAFFORD STREET TYPICAL SECTION

PROJECT NO. 08781007

SHEET G 6



EXISTING TYPICAL SECTION - N. HENDREN AVENUE
NO SCALE



PROPOSED TYPICAL SECTION - N. HENDREN AVENUE
NO SCALE

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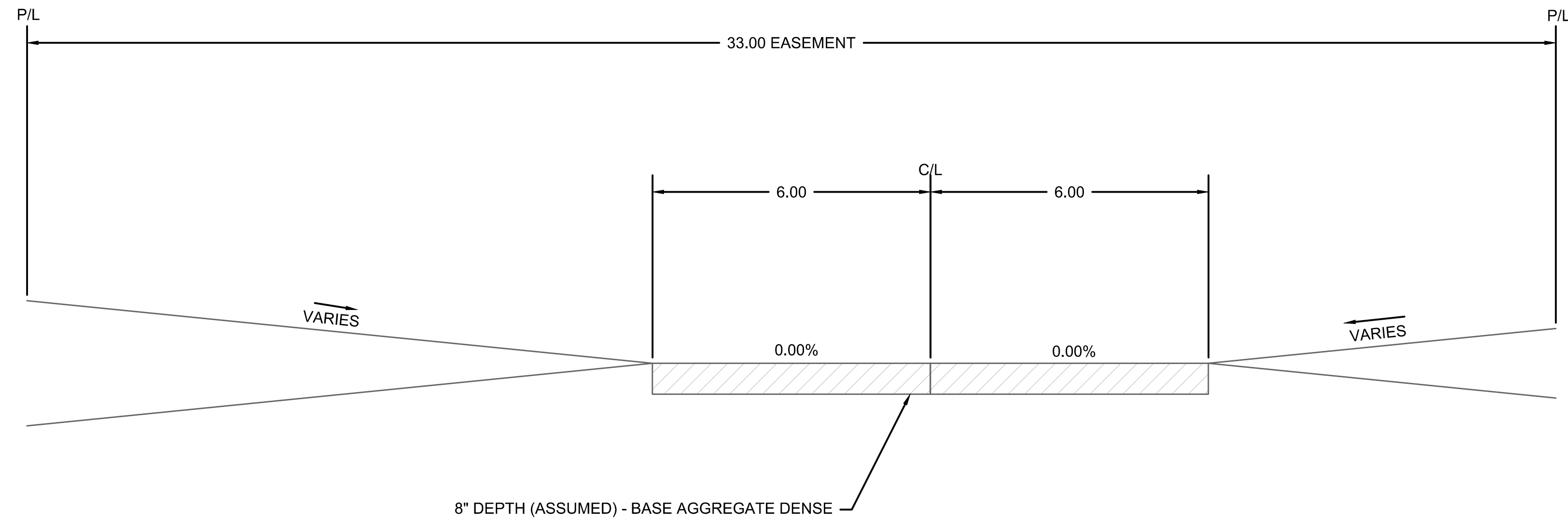
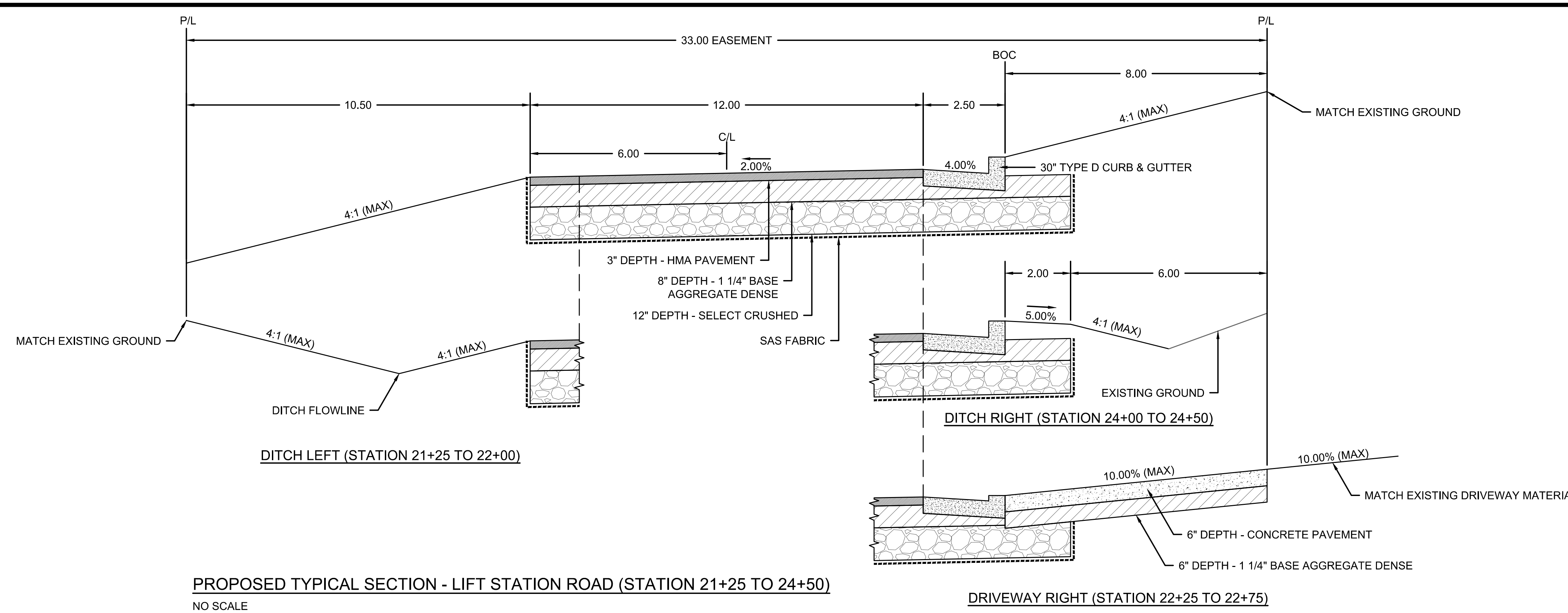
PROJECT A - N. HENDREN AVENUE TYPICAL SECTION

PROJECT NO. 08781007
SHEET G 7



EXISTING TYPICAL SECTION - LIFT STATION ROAD

NO SCALE



PROPOSED TYPICAL SECTION - LIFT STATION ROAD (STATION 21+25 TO 24+50)

NO SCALE

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MILLER STREET RECONSTRUCTION
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

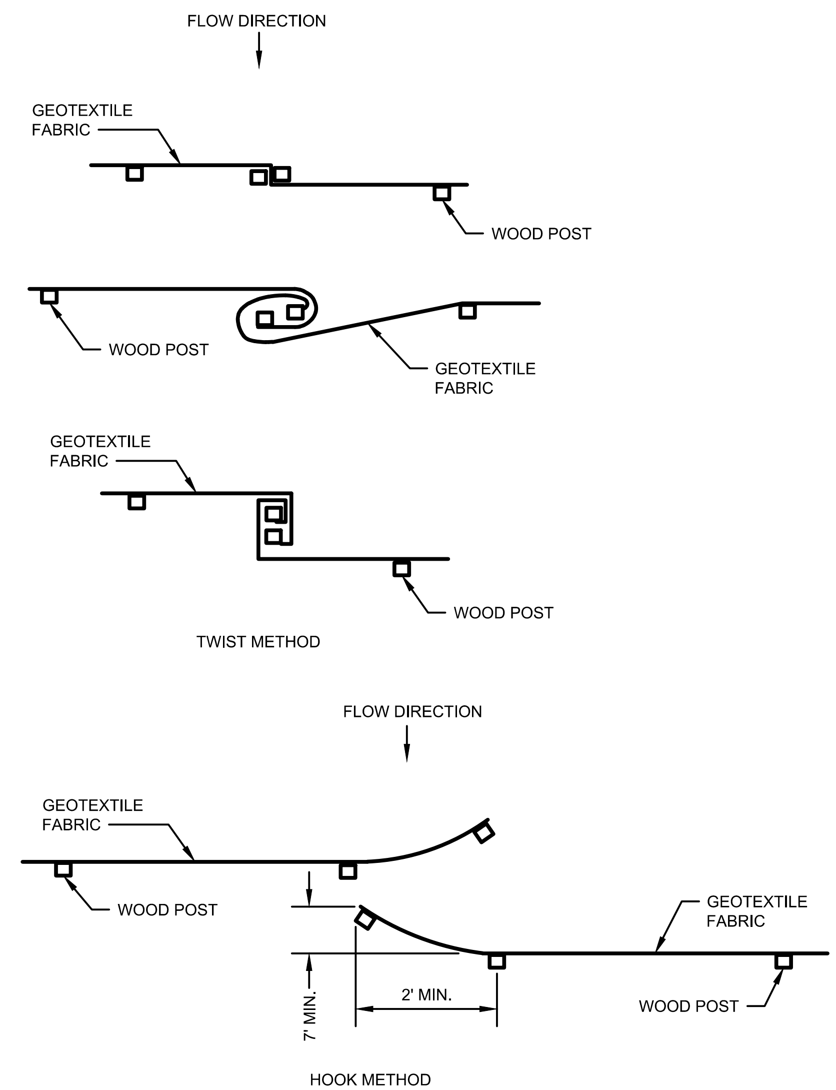
PROJECT B -LIFT STATION ROAD TYPICAL SECTION

PROJECT NO.
08781007

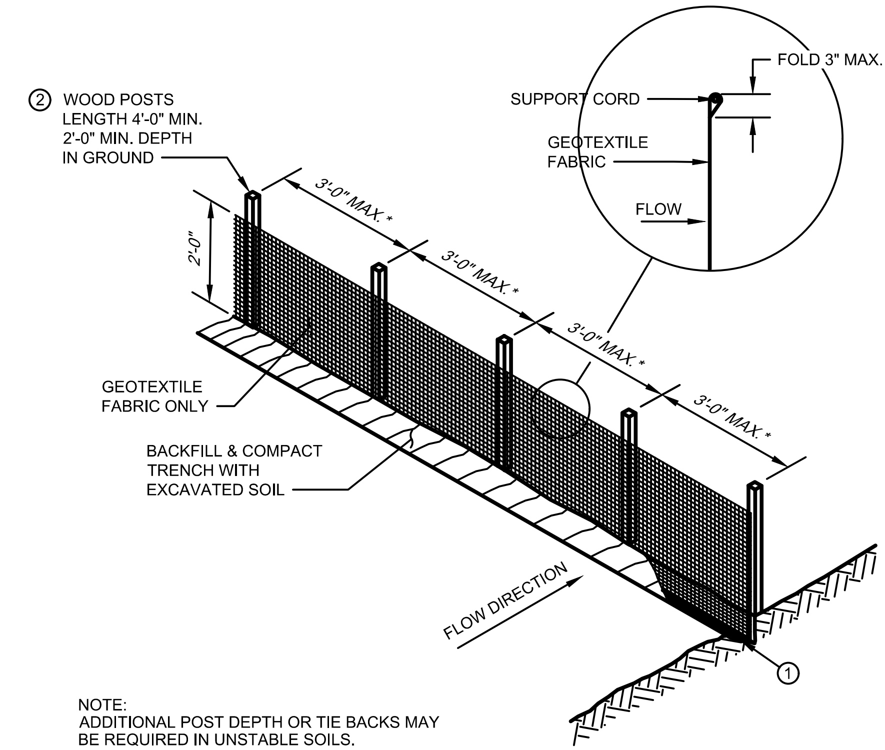
SHEET
G 8

CONSTRUCTION SITE
EROSION CONTROL REQUIREMENTS

1. SECTION NR216.46 OF WISCONSIN STATE ADMINISTRATIVE CODE IDENTIFIES REQUIREMENTS FOR CONSTRUCTION SITE AND POST-CONSTRUCTION EROSION CONTROL. IT IS THE INTENT OF THESE PLANS TO SATISFY THESE REQUIREMENTS. THE METHODS AND STRUCTURES USED TO CONTROL EROSION SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL IMPLEMENT AN APPROPRIATE MEANS OF CONTROLLING EROSION DURING SITE OPERATION AND UNTIL THE VEGETATION IS RE-ESTABLISHED. ADJUSTMENTS TO THE CONTROL SYSTEM SHALL BE MADE AS REQUIRED.
2. ALL WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE WISCONSIN DNR'S CONSERVATION PRACTICE STANDARDS. THESE STANDARDS ARE PERIODICALLY UPDATED AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO OBTAIN AND REFERENCE THE MOST RECENTLY RELEASED STANDARD.
3. THIS INFORMATION IS ONLY ONE PART OF THE OVERALL EROSION CONTROL REQUIREMENTS. ADDITIONAL REQUIREMENTS MAY ALSO BE SHOWN ON THE CONTRACT DRAWINGS AND IN THE ACCOMPANYING SPECIFICATIONS.
4. ADDITIONAL EROSION CONTROL MEASURES, AS REQUESTED IN WRITING BY THE STATE OR LOCAL INSPECTORS, OR THE OWNER'S ENGINEER, SHALL BE INSTALLED WITHIN 24 HOURS.
5. THE AREA OF EROSIVE LAND EXPOSED TO THE ELEMENTS BY GRUBBING, EXCAVATION, TRENCHING, BORROW AND FILL OPERATIONS AT ANY ONE TIME SHALL BE MINIMIZED TO THE MAXIMUM EXTENT PRACTICABLE. FOR ANY DISTURBED AREA THAT REMAINS INACTIVE FOR GREATER THAN 7 WORKING DAYS, OR WHERE GRADING WORK EXTENDS BEYOND THE PERMANENT SEEDING DEADLINES, THE SITE MUST BE TREATED WITH TEMPORARY STABILIZATION MEASURES SUCH AS SOIL TREATMENT, TEMPORARY SEEDING AND/OR MULCHING. ALL DISTURBED AREAS SHALL BE TREATED WITH PERMANENT STABILIZATION MEASURES WITHIN 3 WORKING DAYS OF FINAL GRADING.
6. ALL EROSION CONTROL MEASURES AND STRUCTURES SERVING THE SITE MUST BE INSPECTED AT LEAST WEEKLY OR WITHIN 24 HOURS OF THE TIME 0.5 INCHES OF RAIN HAS OCCURRED. ALL NECESSARY REPAIR AND MAINTENANCE WILL BE DONE AT THIS INSPECTION TIME.
7. ALL EROSION CONTROL DEVICES AND/OR STRUCTURES SHALL BE PROPERLY INSTALLED PRIOR TO CLEARING AND GRUBBING OPERATIONS WITHIN THEIR RESPECTIVE DRAINAGE AREAS. THESE SHALL BE PROPERLY MAINTAINED FOR MAXIMUM EFFECTIVENESS UNTIL VEGETATION IS RE-ESTABLISHED.
8. ALL EROSION CONTROL DEVICES SHALL BE PROPERLY INSTALLED PRIOR TO ANY SOIL DISTURBANCE.
9. ANY SLOPES STEEPER THAN 3H:1V SHALL BE STAKED WITH EROSION CONTROL FABRIC UNLESS INDICATED ON THE PLAN.
10. ALL WASTE AND UNUSED BUILDING MATERIALS (INCLUDING GARBAGE, DEBRIS, CLEANING WASTES, WASTEWATER, TOXIC MATERIALS, OR HAZARDOUS MATERIALS) SHALL BE PROPERLY DISPOSED OF AND NOT ALLOWED TO BE CARRIED OFF-SITE BY RUNOFF OR WIND.
11. WIND EROSION SHALL BE KEPT TO A MINIMUM DURING CONSTRUCTION. WATERING, MULCH, OR A TACKING AGENT MAY BE REQUIRED TO PROTECT NEARBY RESIDENCES AND WATER RESOURCES.
12. CHANNELIZED RUNOFF ENTERING THE PROJECT SITE FROM ADJOINING LANDS SHALL BE DIVERTED THROUGH NATURALLY OR ARTIFICIALLY EROSION-RESISTANT CONVEYANCES. IF CHANNELIZED RUNOFF CANNOT BE DIVERTED, SITE BEST MANAGEMENT PRACTICES MUST ACCOUNT FOR THE ADDITIONAL FLOW RATES AND EROSION POTENTIAL THAT SUCH RUNOFF PRESENTS.
13. THE CONTRACTOR SHALL TAKE ALL POSSIBLE PRECAUTIONS TO PREVENT SOILS FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. PAVED SURFACES ADJACENT TO CONSTRUCTION SITE VEHICLE ACCESS SHALL BE SWEPT AND/OR SCRAPED (NOT FLUSHED) PERIODICALLY TO REMOVE SOIL, DIRT, AND/OR DUST.
14. EROSION CONTROLS SHALL BE INSTALLED ON THE DOWNSTREAM SIDE OF TEMPORARY STOCKPILES. ANY SOIL STOCKPILE THAT REMAINS FOR MORE THAN 30 DAYS SHALL BE COVERED OR TREATED WITH STABILIZATION PRACTICES SUCH AS TEMPORARY OR PERMANENT SEEDING AND MULCHING. ALL STOCK PILES SHALL BE PLACED AT LEAST 75 FEET FROM STREAMS OR WETLANDS.
15. ADDITIONAL EROSION CONTROL FOR UTILITY CONSTRUCTION (STORM SEWER, SANITARY SEWER, WATER MAIN, ETC.) SHALL INCLUDE THE FOLLOWING:
    a. PLACE EXCAVATED TRENCH MATERIAL ON THE HIGH SIDE OF THE TRENCH.
    b. BACKFILL, COMPACT, AND STABILIZE THE TRENCH IMMEDIATELY AFTER PIPE CONSTRUCTION.
    c. DISCHARGE OF TRENCH WATER OR DEWATERING EFFLUENT MUST BE PROPERLY TREATED TO REMOVE SEDIMENT IN ACCORDANCE WITH THE WDNR CONSERVATION PRACTICE STANDARD 1061 - DEWATERING OR A SUBSEQUENT WDNR DEWATERING STANDARD PRIOR TO DISCHARGE INTO A STORM SEWER, DITCH, DRAINAGEWAY, OR WETLAND OR LAKE.
16. ALL DRAINAGE CULVERTS, STORM DRAIN INLETS, MANHOLES, OR ANY OTHER EXISTING STRUCTURES THAT COULD BE DAMAGED BY SEDIMENTATION SHALL BE PROTECTED ACCORDING TO THE VARIOUS METHODS PROVIDED IN THE PRINTED CONSERVATION PRACTICE STANDARDS.
17. ANY SOIL EROSION THAT OCCURS AFTER FINAL GRADING AND/OR STABILIZATION MUST BE REPAIRED AND THE STABILIZATION WORK REDONE.
18. THE FIRST SIX WEEKS AFTER INITIAL STABILIZATION, ALL NEWLY SEEDED AND MULCHED AREAS SHALL WATERED WHENEVER 7 DAYS ELAPSE WITHOUT A RAIN EVENT.
19. WHEN THE DISTURBED AREA HAS BEEN STABILIZED BY PERMANENT VEGETATION OR OTHER MEANS, TEMPORARY BMP'S SUCH AS SILT FENCES, STRAW BALES, AND SEDIMENT TRAPS SHALL BE REMOVED AND THESE AREAS STABILIZED.
20. ALL TEMPORARY BEST MANAGEMENT PRACTICES SHALL BE MAINTAINED UNTIL THE SITE IS STABILIZED.
21. ALL DISTURBED AREAS SHALL BE PERMANENTLY STABILIZED WITH SEED AND MULCH UNLESS OTHERWISE SPECIFIED. A MINIMUM OF FOUR INCHES OF TOPSOIL SHALL BE APPLIED TO ALL AREAS TO BE SEEDED OR SODDED.



JOINING TWO LENGTHS OF SILT FENCE ③



NOTE:
ADDITIONAL POST DEPTH OR TIE BACKS MAY BE REQUIRED IN UNSTABLE SOILS.

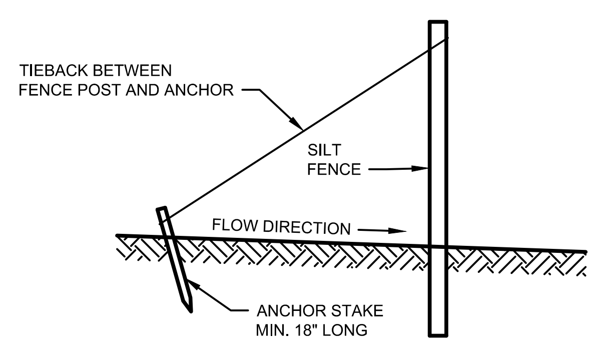
* 8'-0" POST SPACING ALLOWED IF A WOVEN GEOTEXTILE FABRIC IS USED, OR IF THE SILT FENCE IS FACTORY ASSEMBLED.

ATTACH THE FABRIC TO THE POSTS WITH WIRE STAPLES OR WOODEN LATH AND NAILS.

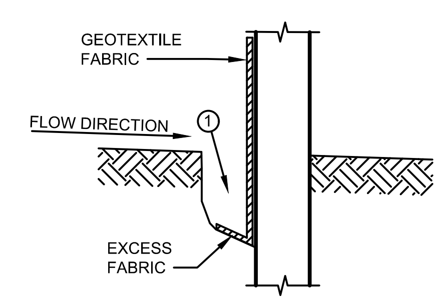
SILT FENCE

GENERAL NOTES

1. TRENCH SHALL BE A MINIMUM OF 4" WIDE & 6" DEEP TO BURY AND ANCHOR THE GEOTEXTILE FABRIC. FOLD MATERIAL TO FIT TRENCH AND BACKFILL & COMPACT TRENCH WITH EXCAVATED SOIL.
2. WOOD POSTS SHALL BE A MINIMUM SIZE OF $1\frac{1}{8}$" x $1\frac{1}{8}$" OF OAK OR HICKORY.
3. CONSTRUCT SILT FENCE FROM A CONTINUOUS ROLL IF POSSIBLE BY CUTTING LENGTHS TO AVOID JOINTS. IF A JOINT IS NECESSARY USE ONE OF THE FOLLOWING TWO METHODS: A) TWIST METHOD -- OVERLAP THE END POSTS AND TWIST, OR ROTATE, AT LEAST 180 DEGREES, B) HOOK METHOD -- HOOK THE END OF EACH SILT FENCE LENGTH.



SILT FENCE TIE BACK
(WHEN REQUIRED BY THE ENGINEER)



TRENCH DETAIL

		NO.	DATE	REVISION	BY
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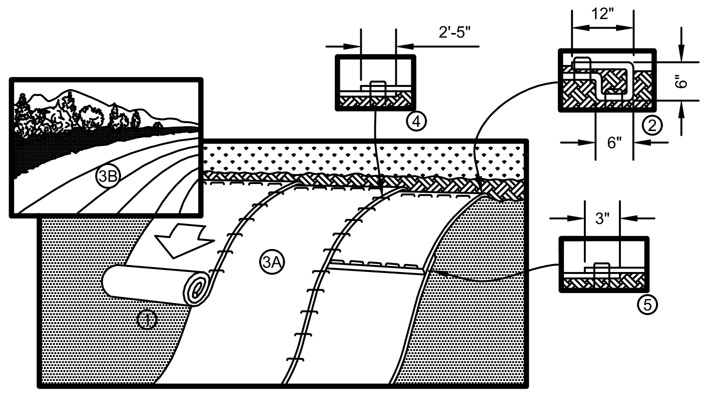
MILLER STREET RECONSTRUCTION
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

EROSION CONTROL DETAILS

PROJECT NO. 08781007
SHEET G 9



1. PREPARE SOIL BEFORE INSTALLING BLANKETS, INCLUDING ANY NECESSARY APPLICATION OF LIME, FERTILIZER, AND SEED.

2. BEGIN AT THE TOP OF THE SLOPE BY ANCHORING THE BLANKET IN A 6" (15 CM) DEEP X 6" (15 CM) WIDE TRENCH WITH APPROXIMATELY 12" (30cm) OF BLANKET EXTENDED BEYOND THE UP-SLOPE PORTION OF THE TRENCH. ANCHOR THE BLANKET WITH A ROW OF STAPLES/STAKES APPROXIMATELY 12" (30 CM) APART IN THE BOTTOM OF THE TRENCH. BACKFILL AND COMPACT THE TRENCH AFTER STAPLING. APPLY SEED TO COMPACTED SOIL AND FOLD REMAINING 12" (30 CM) PORTION OF BLANKET BACK OVER SEED AND COMPACTED SOIL. SECURE BLANKET OVER COMPACTED SOIL WITH A ROW OF STAPLES/STAKES SPACED APPROXIMATELY 12" (30 CM) APART ACROSS THE WIDTH OF THE BLANKET.

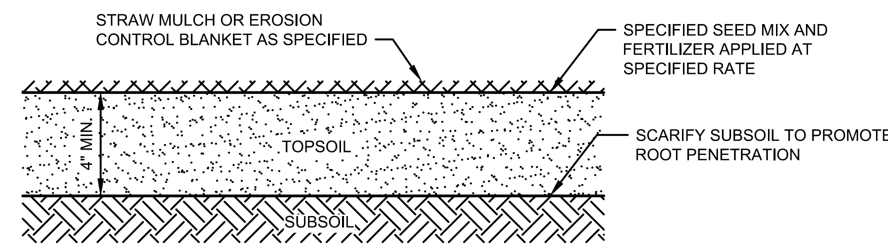
3. ROLL THE BLANKETS (A) DOWN OR (B) HORIZONTALLY ACROSS THE SLOPE. BLANKETS WILL UNROLL WITH APPROPRIATE SIDE AGAINST THE SOIL SURFACE. ALL BLANKETS MUST BE SECURELY FASTENED TO SOIL SURFACE BY PLACING STAPLES/STAKES IN APPROPRIATE LOCATIONS AS SHOWN IN THE STAPLE PATTERN GUIDE.

4. THE EDGES OF PARALLEL BLANKETS MUST BE STAPLED WITH APPROXIMATELY 2"-5" (5 CM-12.5 CM) OVERLAP DEPENDING ON BLANKET TYPE.

5. CONSECUTIVE BLANKETS SPLICED DOWN THE SLOPE MUST BE PLACED END OVER END (SHINGLE STYLE) WITH AN APPROXIMATE 3" (7.5 CM) OVERLAP. STAPLE THROUGH OVERLAPPED AREA, APPROXIMATELY 12" (30 CM) APART ACROSS ENTIRE BLANKET WIDTH.

NOTE:
*IN LOOSE SOIL CONDITIONS, THE USE OF STAPLE OR STAKE LENGTHS GREATER THAN 6" (15 CM) MAY BE NECESSARY TO PROPERLY SECURE THE BLANKETS.

EROSION CONTROL BLANKET DETAIL
NO SCALE



NOTE: WHERE REQUIRED, PLANT HERBACEOUS PLUGS ACCORDING TO PLAN, OR AS DIRECTED BY ENGINEER.

TOPSOIL AND SEEDING DETAIL
NO SCALE

GENERAL NOTES - INLET PROTECTION

INLET PROTECTION DEVICES SHALL BE MAINTAINED OR REPLACED AT THE DIRECTION OF THE ENGINEER. MANUFACTURED ALTERNATIVES APPROVED AND LISTED ON THE DEPARTMENT'S EROSION CONTROL PRODUCT ACCEPTABILITY LIST MAY BE SUBSTITUTED. WHEN REMOVING OR MAINTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED ON THE GEOTEXTILE FABRIC DOES NOT FALL INTO THE INLET. ANY MATERIAL FALLING INTO THE INLET SHALL BE REMOVED IMMEDIATELY.

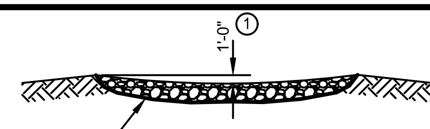
1. FINISHED SIZE, INCLUDING FLAP POCKETS WHERE REQUIRED, SHALL EXTEND A MINIMUM OF 10" AROUND THE PERIMETER TO FACILITATE MAINTENANCE OR REMOVAL.
2. FOR INLET PROTECTION, TYPE C (WITH CURB BOX), AN ADDITIONAL 18" OF FABRIC IS WRAPPED AROUND THE WOOD AND SECURED WITH STAPLES. THE WOOD SHALL NOT BLOCK THE ENTIRE HEIGHT OF THE CURB BOX OPENING.
3. FLAP POCKETS SHALL BE LARGE ENOUGH TO ACCEPT WOOD 2X4.

TABLE OF QUANTITIES
RIPRAP AT RCP OUTLETS

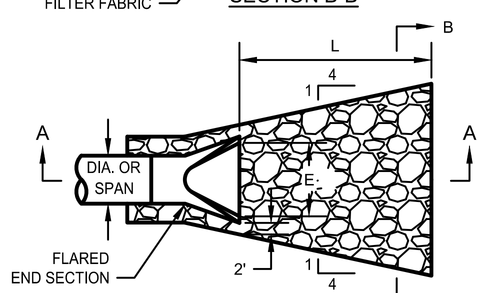
DIA. OF ROUND PIPE (IN.)	L (FT.)	12" DEPTH RIPRAP (CU.YDS.)	18" DEPTH RIPRAP (CU.YDS.)	24" DEPTH RIPRAP (CU.YDS.)
12	8	2.8	4.1	5.5
15	8	2.9	4.4	5.8
18	10	3.9	5.9	7.8
21	10	4.2	6.3	8.4
24	12	5.5	8.3	11.0
27	12	5.8	8.7	11.6
30	14	7.3	10.9	14.5
36	16	9.2	13.8	18.3
42	18	10.9	16.3	21.7
48	20	12.9	19.4	25.8

TABLE OF QUANTITIES
RIPRAP AT HERCP OUTLETS
OR BOXES OF EQUIVALENT SPAN WIDTH

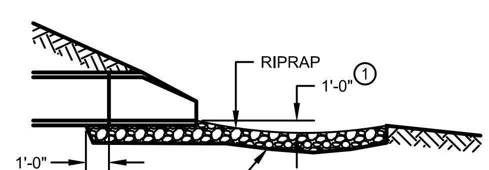
		LIGHT d50=6"	MEDIUM d50=9"	HEAVY d50=12"
SPAN OF HERCP (IN.)	L (FT.)	12" DEPTH RIPRAP (CU.YDS.)	18" DEPTH RIPRAP (CU.YDS.)	24" DEPTH RIPRAP (CU.YDS.)
22	10	3.9	5.9	7.8
30	12	5.5	8.2	10.9
38	14	7.2	10.8	14.3
45	16	9.2	13.7	18.3
53	18	10.9	16.3	21.7
60	20	12.7	19.0	25.4



SECTION B-B



PLAN



SECTION A-A

NOTES:

PIPE SIZES LARGER THAN THOSE SHOWN REQUIRE A SPECIAL DESIGN.

LIGHT RIPRAP SHALL BE UNDERLAIN WITH TYPE R FABRIC. MEDIUM AND HEAVY SHALL BE UNDERLAIN W/ TYPE HR FABRIC.

1 FOR PIPES GREATER THAN OR EQUAL TO 30" USE 1.5'.

RIP RAP AT OUTLETS
NO SCALE

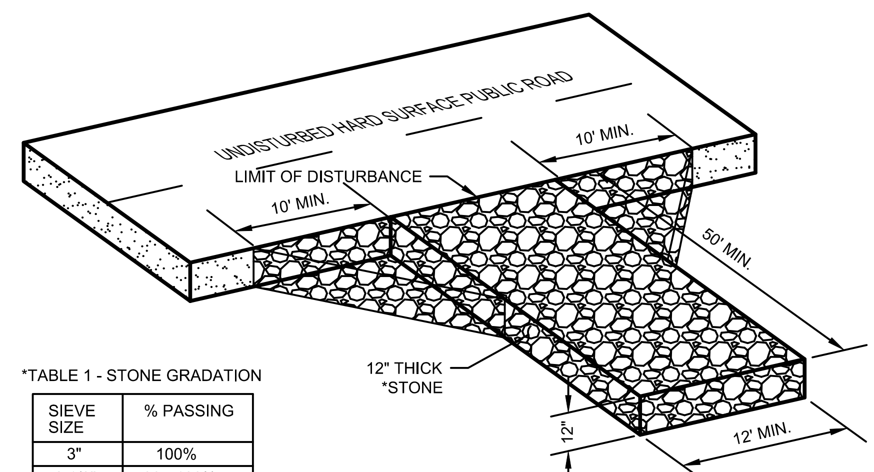
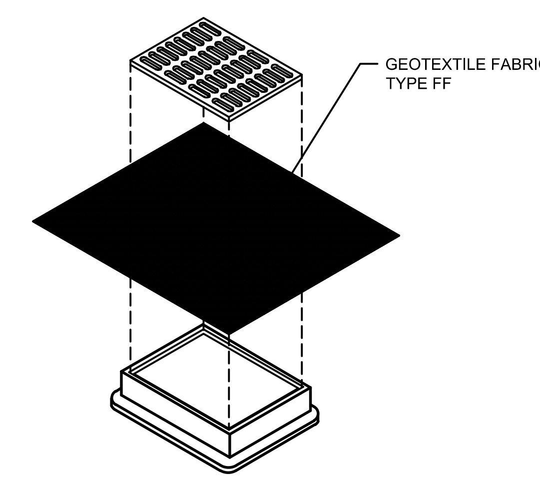


*TABLE 1 - STONE GRADATION

SIEVE SIZE	% PASSING
3"	100%
2 1/2"	90 - 100%
1 1/2"	25 - 60%
3/4"	0 - 20%
3/8"	0 - 5%

NOTES:
1. TRACKING PAD WIDTH SHALL BE AT LEAST THE FULL WIDTH OF HTE EGRESS POINT OR 12' WIDE MINIMUM.
2. TRACKING PAD LENGTH SHALL BE 50' FOR CONSTRUCTION SITES, 30' FOR SINGLE FAMILY RESIDENTIAL, OR AS SPECIFIED IN THE CONTRACT DOCUMENTS. LENGTH OF TRACKING PAD MAY NEED TO BE INCREASE OR ADDITIONAL SEDIMENT CONTROL PRACTICES SHALL BE INSTALLED BY THE CONTRACTOR IS SEDIMENT TRACK-OUT OCCURS.
3. GEOTEXTILE FABRIC TYPE R SHALL BE INSTALLED BETWEEN THE STONE AND SUBGRADE ON SITES WHERE HIGH GROUND WATER IS OBSERVED.
4. CONTRACTOR SHALL CLEAN STREET/ROADWAY ADJACENT TO ALL CONSTRUCTION ACCESS POINTS AT THE END OF EACH WORKDAY OR MORE FREQUENTLY IF REQUESTED.

STONE TRACKING PAD
NO SCALE

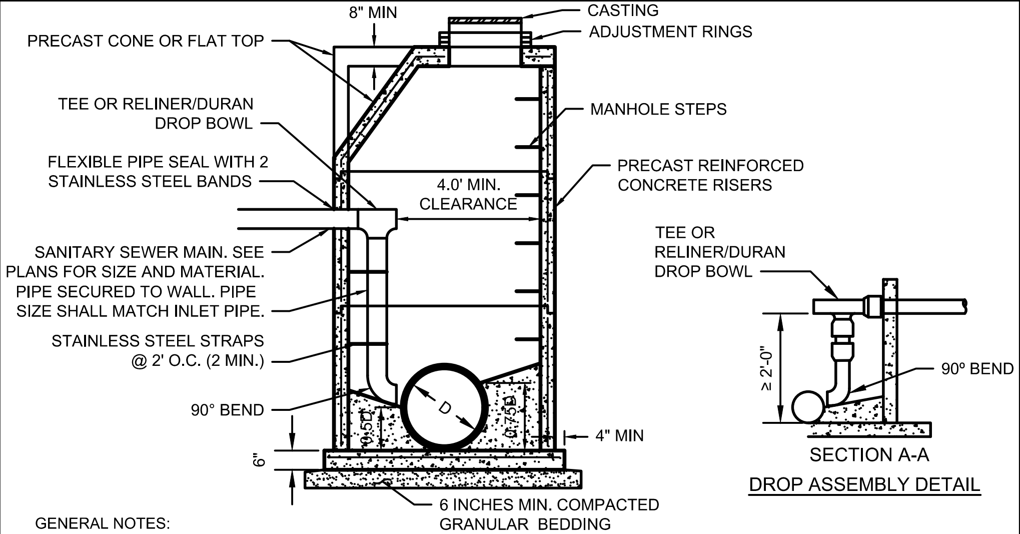


INSTALLATION NOTES:

TRIM EXCESS FABRIC IN THE FLOW LINE TO WITHIN 3" OF THE GRATE. THE CONTRACTOR SHALL DEMONSTRATE A METHOD OF MAINTENANCE, USING A SEWN FLAP, HAND HOLDS OR OTHER METHOD TO PREVENT ACCUMULATED SEDIMENT FROM ENTERING THE INLET.

INLET PROTECTION, TYPE B
NO SCALE

WITHOUT CURB BOX. CAN BE INSTALLED IN ANY INLET WITHOUT A CURB BOX.



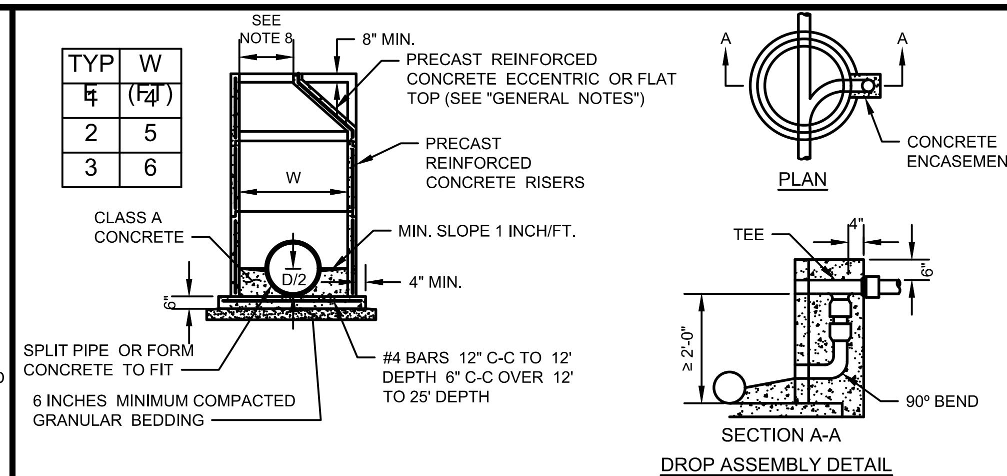
GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING AND THE APPLICABLE SPECIAL CONDITIONS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
2. DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4. ECCENTRIC CONE TOPS SHALL BE USED ON ALL STRUCTURES 5 FEET OR GREATER IN DEPTH, AND FLAT TOPS SHALL BE USED ONLY ON STRUCTURES LESS THAN 5 FEET IN DEPTH, UNLESS DIRECTED BY THE ENGINEER.
5. PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.
6. DROP CONNECTIONS SHALL BE USED WHEN THE PIPE INVERT IS MORE THAN 2 FEET ABOVE THE MANHOLE INVERT. PRECAST STRUCTURE MANWAY CLEAR OPENING SHALL MATCH CASTING - REFER TO STANDARD SPECIFICATION
7. DIVISION 33 AND THE APPLICABLE SPECIAL CONDITIONS.
   - OPENING SHALL BE 24" FOR R-1550 CASTINGS
   - OPENING SHALL BE 27" FOR R-1642 CASTINGS

PRECAST REINFORCED CONCRETE MANHOLE WITH INSIDE DROP DETAIL

NO SCALE

TYP	W
1	(4)
2	5
3	6



GENERAL NOTES:

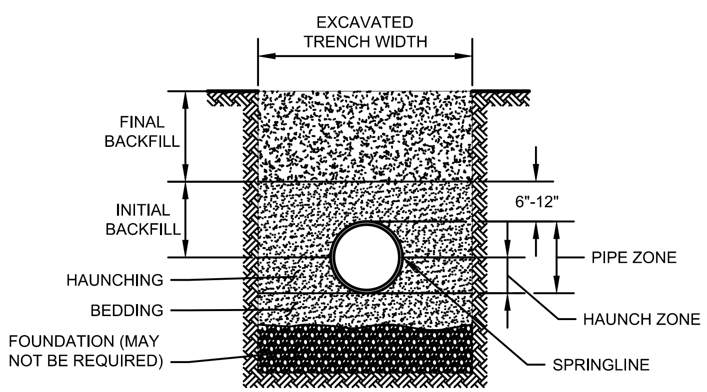
1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING AND THE APPLICABLE SPECIAL CONDITIONS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS.
2. DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
3. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR GRANULAR BACKFILL. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
4. ECCENTRIC CONE TOPS SHALL BE USED ON ALL STRUCTURES 5 FEET OR GREATER IN DEPTH, AND FLAT TOPS SHALL BE USED ONLY ON STRUCTURES LESS THAN 5 FEET IN DEPTH, UNLESS DIRECTED BY THE ENGINEER.
5. PRECAST REINFORCED CONCRETE RISERS MAY BE PLACED WITH TONGUE UP OR DOWN.
6. ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.
7. DROP CONNECTIONS SHALL BE USED WHEN THE PIPE INVERT IS MORE THAN 2 FEET ABOVE THE MANHOLE INVERT. PRECAST STRUCTURE MANWAY CLEAR OPENING SHALL MATCH CASTING - REFER TO STANDARD SPECIFICATION
8. DIVISION 33 AND THE APPLICABLE SPECIAL CONDITIONS.
   - OPENING SHALL BE 24" FOR R-1550 CASTINGS
   - OPENING SHALL BE 27" FOR R-1642 CASTINGS
9. DROP CONNECTION AND ASSEMBLY SHALL BE CONSTRUCTED WITH DUCTILE IRON PIPE.

PRECAST REINFORCED CONCRETE MANHOLE DETAIL

NO SCALE

SANITARY SEWER NOTES

1. CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL PROPER BARRICADES, LIGHTS, SIGNAGE AND WATCHMEN, OR OTHER TRAFFIC CONTROL MEASURES NECESSARY TO PROPERLY PROTECT PERSONS, ANIMALS AND PROPERTY DURING ALL SANITARY SEWER AND FORCE MAIN CONSTRUCTION.
2. ALL OPEN CUT TRENCHES SHALL BE PROTECTED IN ACCORDANCE WITH APPLICABLE RULES, LAWS AND REGULATIONS OF FEDERAL, STATE AND MUNICIPAL ORDINANCES, BUT SHALL NOT BE LESS THAN THE STANDARDS AND REGULATIONS ESTABLISHED BY THE DEPARTMENT OF LABOR, OSHA 29 CFR, PART 1926.
3. ALL OPEN TRENCHES SHALL BE BACK FILLED AT THE END OF EACH WORKING DAY, UNLESS THE TRENCH IS SUITABLY BARRICADED IN ACCORDANCE WITH THE STANDARDS AND REGULATIONS ESTABLISHED BY THE DEPARTMENT OF LABOR, OSHA 29 CFR, PART 1926.
4. INSTALL ALL BOUNDARY SILT FENCE AND EROSION BALES FOR EROSION CONTROL IN ACCORDANCE WITH THE CONSTRUCTION DRAWINGS. INSTALL ALL BOUNDARY SILT FENCE PRIOR TO ANY CONSTRUCTION WORK.
5. SANITARY SEWER SHALL BE CONSTRUCTED WITH COVER INDICATED. INSTANCES WHERE COVER CANNOT BE PROVIDED DUE TO PHYSICAL CONSTRAINTS OR CONFLICTS SHALL BE EVALUATED AND MODIFIED BY THE ENGINEER.
6. CONTRACTOR SHALL PERFORM LOW PRESSURE AIR AND DEFLECTION TESTS FOR ACCEPTANCE IN THE PRESENCE OF THE ENGINEER, IN ACCORDANCE WITH THE GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE AND PROVISIONAL PUBLIC HEALTH AND ENVIRONMENTAL MANAGERS DESIGN STANDARDS, CURRENT EDITION. (TEN STATES STANDARDS)
7. ALL SANITARY SEWER AND LATERAL CONNECTIONS SHALL BE IN ACCORDANCE WITH THE TEN STATES STANDARDS.



GENERAL NOTES:

1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
2. CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2 -INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
3. WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
4. CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER- EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
5. INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
6. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
7. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
8. EMBEDMENT COMPACTION:

   MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.

10. EMBEDMENT INCLUDES BEDDING, HAUNCHING, AND INITIAL BACKFILL.

CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL

NO SCALE

		NO.	DATE	REVISION	BY
PROJECT DATE: .	DRAWN BY: JFK	.	.	.	.
	DESIGNED BY: DWB	.	.	.	.
	CHECKED BY: DWB	.	.	.	.

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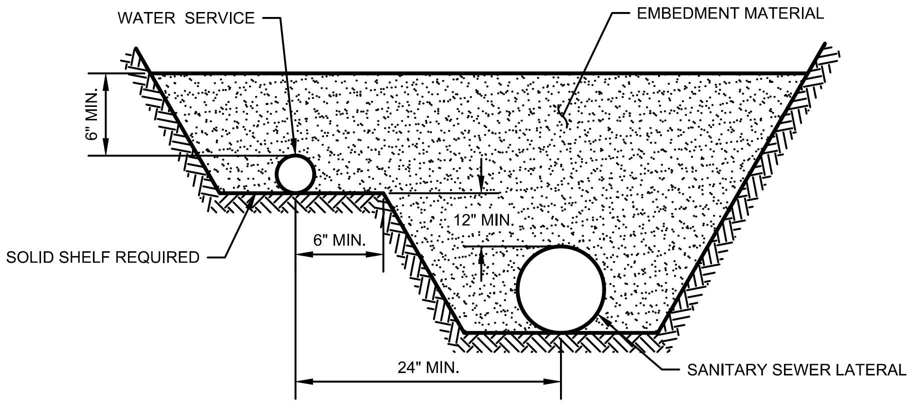
MILLER STREET RECONSTRUCTION
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

SANITARY SEWER DETAILS

PROJECT NO. 08781007

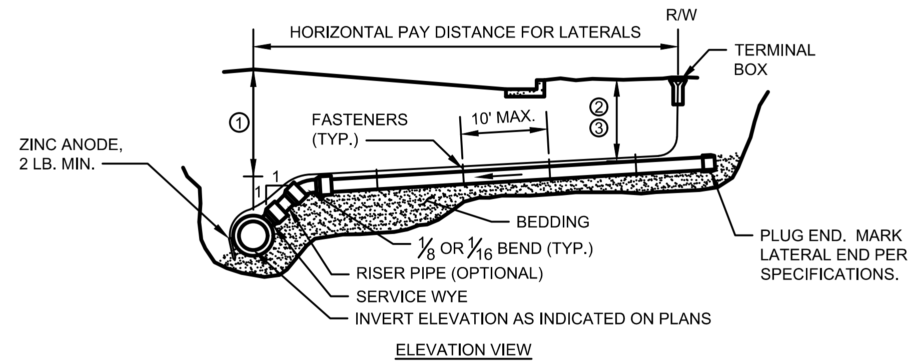
SHEET G 11



GENERAL NOTES:
1. WATER SERVICES 2 INCHES IN DIAMETER AND LESS SHALL BE LAID WITH A CLEAR HORIZONTAL SEPARATION NOT LESS THAN 2 FEET FROM THE SANITARY LATERAL.

WATER SERVICE AND SANITARY SEWER LATERAL DETAIL

NO SCALE



NOTES FOR LATERAL INSTALLATION:
1. MINIMUM DEPTH OF COVER UNDER ROADWAY = 7 FEET.
2. MINIMUM DEPTH OF COVER UNDER GRASS AREAS = 5 1/2 FEET.
3. MINIMUM DEPTH OF COVER UNDER GRASS AREAS WITH FROST PROTECTION = 3 FEET 6 INCHES.
4. LATERAL SLOPES SHALL BE 1/8 INCH PER FOOT MINIMUM AND 1/2 INCH PER FOOT MAXIMUM.

NOTES FOR TRACER WIRE INSTALLATION:
1. THE TRACER WIRE SHALL REMAIN CONTINUOUS TO THE GREATEST EXTENT POSSIBLE.
2. NO. 12 GAUGE GREEN INSULATED COPPER TRACER WIRE SHALL BE INSTALLED WITH THE NON-CONDUCTIVE SERVICE. PIPE TRACER WIRE TERMINAL BOXES SHALL BE INSTALLED DIRECTLY ABOVE THE SEWER MAIN OR AS DETERMINED BY THE ENGINEER OR OWNER. TRACER WIRE INSTALLATION REQUIRES ACCESS POINTS AT LEAST EVERY 300 FEET.
3. TRACER WIRE SHALL BE RESTRAINED BY CABLE-TIES, TAPE, OR BY NON-CORRESIVE FASTENER APPROVED BY THE OWNER, INSTALLED EVERY 10 FEET ALONG SERVICE. DO NOT WRAP TRACER WIRE AROUND THE PIPE.
4. TRACER WIRE SHALL RUN FROM THE WYE AND TERMINATED IN A FLUSH MOUNTED TERMINAL BOX WITH A CAST IRON LOCKABLE TOP. SPLICES IN TRACER WIRE SHOULD BE MADE WITH SPLIT BOLT OR COMPRESSION-TYPE CONNECTORS. WIRE NUTS SHALL NOT BE USED. A WATER-PROOF CONNECTION IS NECESSARY TO PREVENT CORROSION. TERMINAL BOX SHALL BE VALVCO, OR APPROVED EQUAL.

SANITARY SEWER LATERAL DETAIL

NO SCALE

		NO.	DATE	REVISION	BY
PROJECT DATE: -	DRAWN BY: JFK	-	-	-	-
	DESIGNED BY: DWB	-	-	-	-
	CHECKED BY: DWB	-	-	-	-

PLOT DATE: 1/25/2023 11:48 AM, G:\08\08781\08781007\CADD\Construction Documents\PLAN PRODUCTION\08781007 GENERALS.dwg

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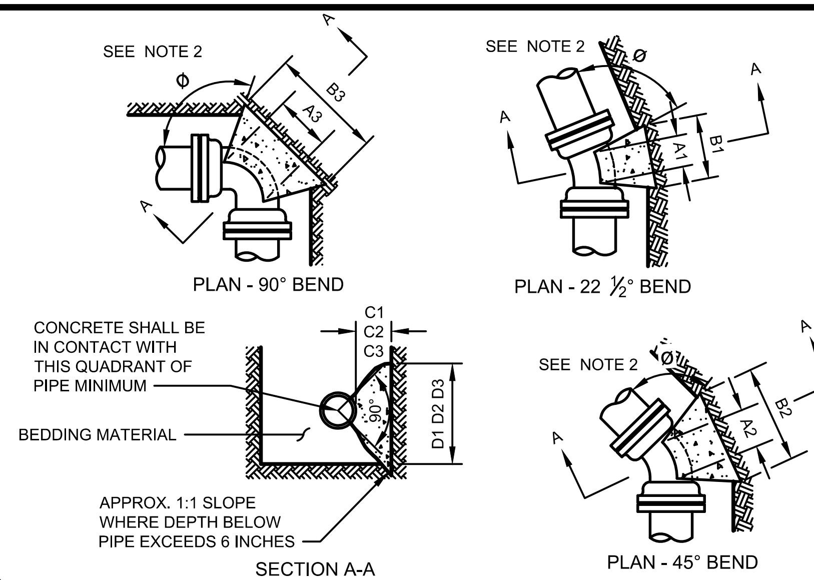
MILLER STREET RECONSTRUCTION
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

SANITARY SEWER DETAILS

PROJECT NO. 08781007
SHEET G 12

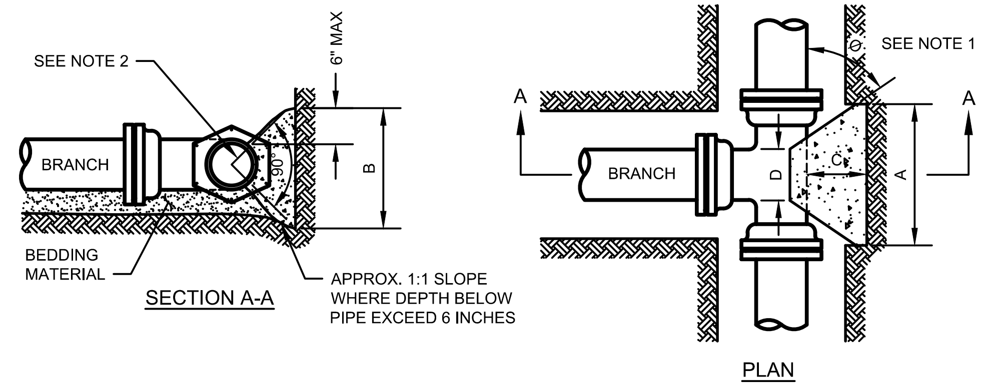


NOTES:
1. DIMENSIONS IN TABLE ARE BASED ON A WATER PRESSURE OF 150 P.S.I. AND AN EARTH RESISTANCE OF 2 TONS PER SQ. FT. INFORM THE ENGINEER IF PRESSURES EXCEED 150 PSI, OR ON-SITE SOIL DOES NOT MEET THIS CONDITION.
2. DIMENSION C1 C2 C3 SHOULD BE LARGE ENOUGH TO MAKE ANGLE Ø EQUAL TO OR LARGER THAN 45°.
3. DIMENSION A1 A2 A3 SHOULD BE AS LARGE AS POSSIBLE WITHOUT INTERFERING WITH THE MECHANICAL JOINT.
4. BUTTRESS TO BE POURED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
5. ALL BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
6. CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
7. IN ADDITION TO BUTTRESS, ALL JOINTS SURROUNDING BENDS SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

BUTTRESS DIMENSIONS						
PIPE SIZE	22 ½° BENDS		45° BENDS		90° BENDS	
	B1	D1	B2	D2	B3	D3
6"	1'-0"	1'-0"	1'-0"	1'-0"	1'-4"	1'-2"
8"	1'-0"	1'-0"	1'-4"	1'-2"	1'-10"	1'-6"
10"	1'-2"	1'-2"	1'-7"	1'-7"	2'-3"	1'-10"
12"	1'-4"	1'-4"	1'-10"	1'-10"	2'-8"	2'-3"
16"	1'-10"	1'-8"	2'-6"	2'-4"	3'-10"	2'-10"
20"	2'-4"	2'-0"	3'-3"	2'-10"	5'-0"	3'-4"
24"	2'-10"	2'-4"	4'-0"	3'-3"	6'-4"	3'-10"

BUTTRESS FOR BENDS DETAIL

NO SCALE



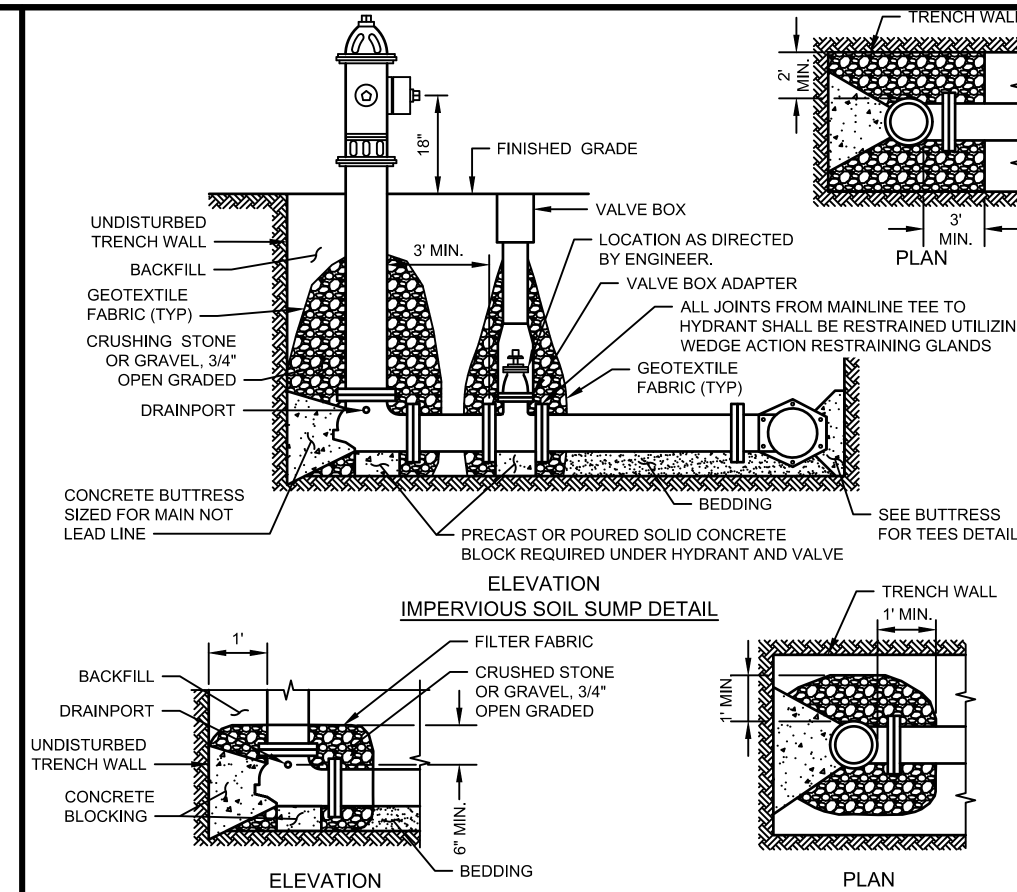
NOTES:
1. DIMENSION 'C' SHOULD BE LARGE ENOUGH TO MAKE ANGLE Ø GREATER THAN OR EQUAL TO 45°.
2. CONCRETE SHOULD BEAR ON THIS QUADRANT OF PIPE AT A MINIMUM.
3. DIMENSION 'D' SHOULD BE AS LARGE AS POSSIBLE BUT CONCRETE SHOULD NOT INTERFERE WITH MECHANICAL JOINTS.
4. BUTTRESS DIMENSIONS ARE BASED ON A SOIL RESISTANCE OF TWO TONS PER SQ. FT. AND A WATER PRESSURE OF 150 PSI. INFORM THE ENGINEER IF ON-SITE SOIL DOES NOT MEET THIS CONDITION OR PRESSURES EXCEED 150 PSI.
5. BUTTRESS TO BE PLACED AGAINST FIRM UNDISTURBED SOIL, OR DISTURBED SOIL COMPACTED TO 95%% OF MODIFIED PROCTOR DENSITY, ASTM D1557.
6. CONCRETE SHALL HAVE A MINIMUM 7-DAY COMPRESSIVE STRENGTH OF 2000 PSI.
7. ALL POURED BUTTRESSED FITTINGS SHALL BE WRAPPED IN POLYETHYLENE.
8. IN ADDITION TO BUTTRESSES, ALL JOINTS SURROUNDING TEES SHALL BE RESTRAINED WITH WEDGE ACTION RESTRAINING GLANDS.

BUTTRESS DIMENSIONS				
DIA.	A	B	C	D
6"	1'-3"	1'-0"	SEE NOTE NO. 1	SEE NOTE NO. 3
8"	1'-6"	1'-4"		
10"	1'-10"	1'-8"		
12"	2'-3"	2'-0"		
16"	3'-2"	2'-6"		
20"	4'-0"	3'-0"		
24"	5'-3"	3'-4"		

DIA. = BRANCH DIAMETER

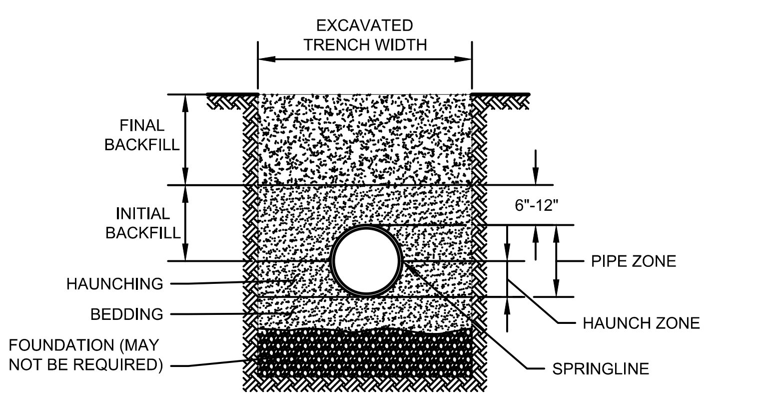
BUTTRESS FOR TEES DETAIL

NO SCALE



HYDRANT AND LEAD CONNECTION DETAIL

NO SCALE



GENERAL NOTES:

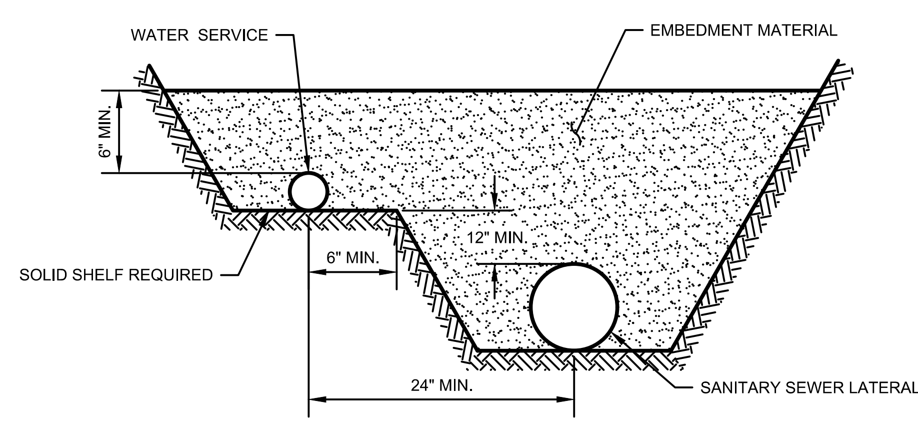
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
2. CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2 -INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
3. WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
4. CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER- EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
5. INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
6. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
7. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
8. EMBEDMENT COMPACTION:

   MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.

10. EMBEDMENT INCLUDES BEDDING, HAUNCHING, AND INITIAL BACKFILL.

CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL

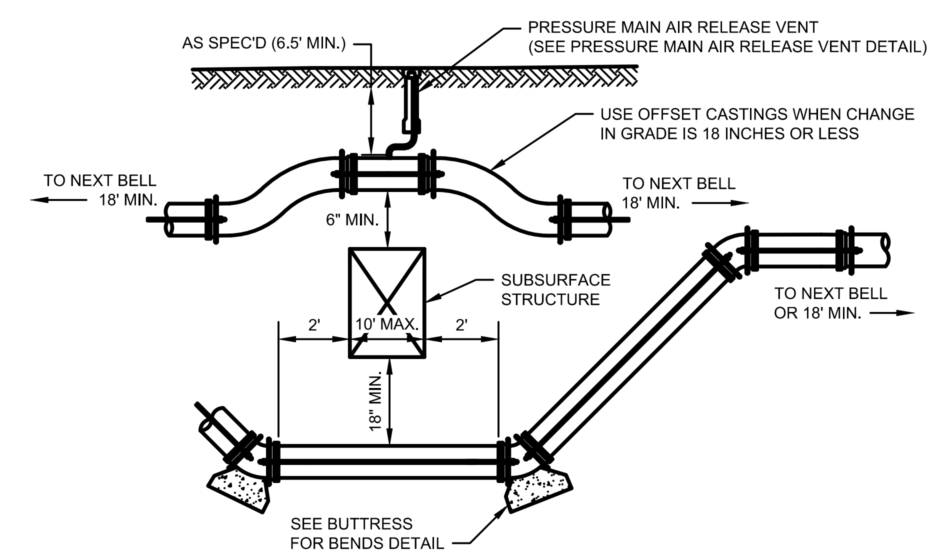
NO SCALE



GENERAL NOTES:
1. WATER SERVICES 2 INCHES IN DIAMETER AND LESS SHALL BE LAID WITH A CLEAR HORIZONTAL SEPARATION NOT LESS THAN 2 FEET FROM THE SANITARY LATERAL.

WATER SERVICE AND SANITARY SEWER LATERAL DETAIL

NO SCALE



GENERAL NOTES:
1. FITTINGS TO BE WRAPPED WITH POLYETHYLENE BEFORE PLACEMENT OF RODDING AND BUTTRESSES.
2. ALL FITTINGS SHALL BE RODDED OR CONNECTED TO THE PIPE WITH AN APPROVED WEDGE ACTION THRUST RESTRAINING GLAND. RODS SHALL BE STAINLESS STEEL OR BITUMINOUS COATED, AND A MINIMUM OF 1 INCH IN DIAMETER.
3. LOCATIONS OF EXISTING MAINS ARE APPROXIMATE. LENGTH REQUIRED TO BE LOWERED WILL BE DETERMINED IN THE FIELD.
4. MAINS SHALL BE INSULATED IF COVER IS LESS THAN 6.5 FEET.

PRESSURE MAIN OFFSET DETAIL

NO SCALE

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PROJECT DATE: .	DRAWN BY:	JFK	.	.	.	.
	DESIGNED BY:	DWB	.	.	.	.
	CHECKED BY:	DWB	.	.	.	.

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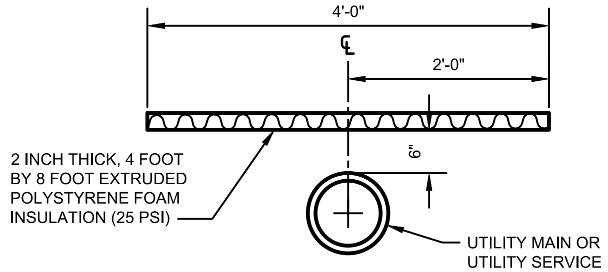
MILLER STREET RECONSTRUCTION
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

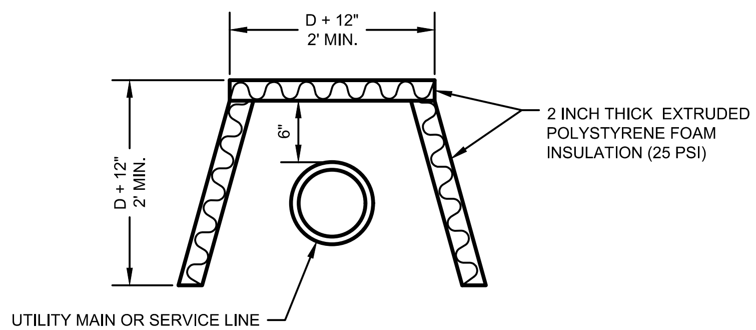
WATER MAIN DETAILS

PROJECT NO. 08781007

SHEET G 13



STANDARD INSTALLATION

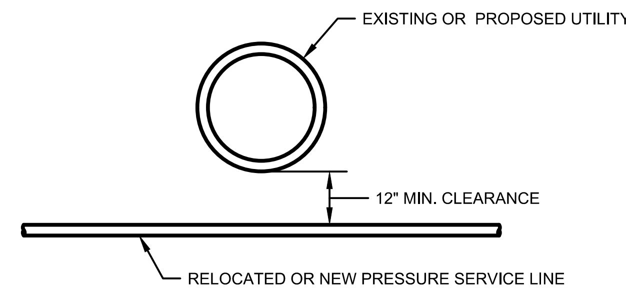


SIDE PROTECTION INSTALLATION

GENERAL NOTES:
1. THE SIDE PROTECTION INSTALLATION SHALL BE USED WHERE FROST WILL PENETRATE BELOW THE PIPE INVERT.

PIPE INSULATION DETAIL

NO SCALE



GENERAL NOTES:
1. PIPE INSULATION SHALL BE INSTALLED AS REQUIRED. SEE "PIPE INSULATION DETAIL."

PRESSURE SERVICE CROSSING DETAIL

NO SCALE

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PROJECT DATE: .	DRAWN BY: JFK	.	.	.	.
	DESIGNED BY: DWB	.	.	.	.
	CHECKED BY: DWB	.	.	.	.

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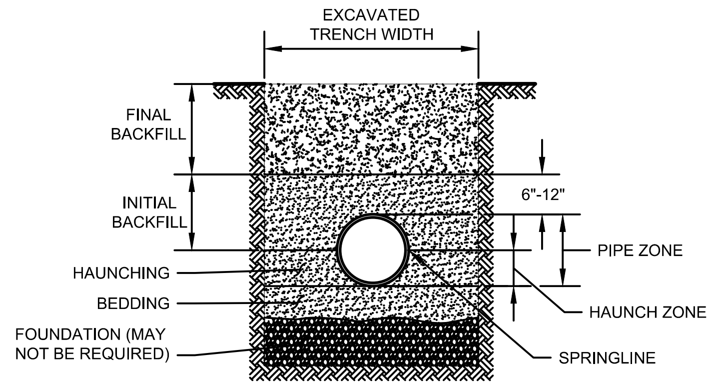
WATER MAIN DETAILS

PROJECT NO. 08781007

SHEET G 14



GENERAL NOTES:

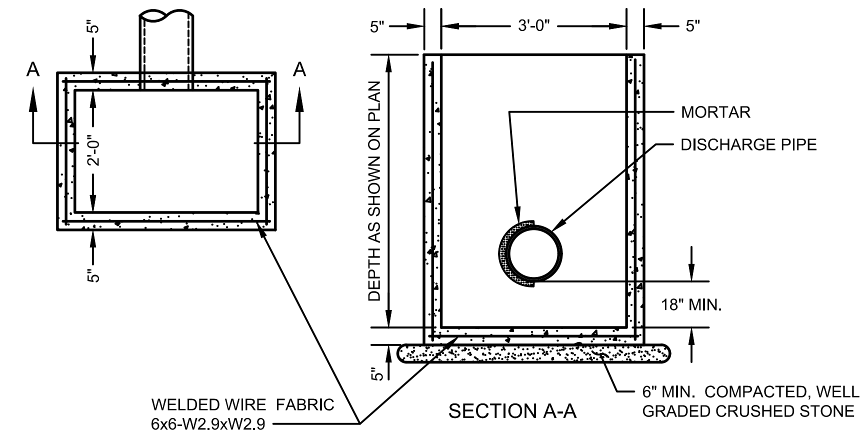
1. DETAILS OF CONSTRUCTION NOT SHOWN ON THIS DRAWING SHALL CONFORM TO ASTM D2321.
2. CLASS II EMBEDMENT MATERIAL SHALL BE CLEAN, COARSE-GRAINED SOILS WITH LITTLE TO NO FINES. NO PARTICLES LARGER THAN 1 1/2 -INCHES SHALL BE USED IN THE PIPE EMBEDMENT.
3. WHERE HYDRAULIC GRADIENT EXISTS USE A WELL-GRADED MIXTURE TO MINIMIZE MIGRATION OF FINES FROM ADJACENT SOIL.
4. CLASS II MATERIAL IS SUITABLE AS A FOUNDATION AND FOR REPLACING OVER- EXCAVATED AND UNSTABLE TRENCH BOTTOM. INSTALL AND COMPACT IN 6-INCH MAXIMUM LAYERS.
5. INSTALL AND COMPACT BEDDING IN 6-INCH MAXIMUM LAYERS. LEVEL FINAL GRADE BY HAND. MINIMUM DEPTH 4 INCH (6 INCH IN ROCK CUTS.)
6. INSTALL AND COMPACT HAUNCHING IN 6-INCH MAXIMUM LAYERS. WORK IN AROUND PIPE BY HAND TO PROVIDE UNIFORM SUPPORT.
7. INSTALL AND COMPACT INITIAL BACKFILL TO A MINIMUM OF 6 INCH ABOVE PIPE CROWN.
8. EMBEDMENT COMPACTION:

   MINIMUM DENSITY 85% STANDARD PROCTOR. USE HAND TAMPERS OR VIBRATORY COMPACTORS.

10. EMBEDMENT INCLUDES BEDDING, HAUNCHING, AND INITIAL BACKFILL.

CLASS II - FLEXIBLE PIPE EMBEDMENT DETAIL

NO SCALE

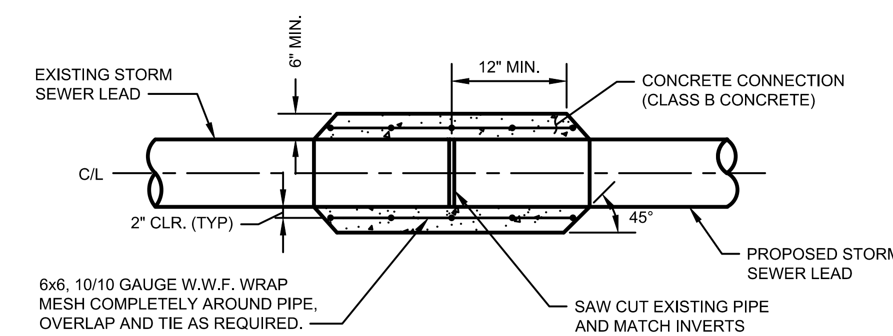


GENERAL NOTES:

1. SEE PLANS FOR SIZE, NUMBER, AND LOCATION OF PIPES.
2. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
3. DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
4. ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.
5. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR WELL GRADED CRUSHED STONE. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
6. PRECAST REINFORCED CONCRETE FLAT SLAB TOPS MAY BE USED ON THE STRUCTURES. THE TOPS SHALL BE INSTALLED ON A BED OF MORTAR.
7. ALL BAR STEEL AND WELDED WIRE FABRIC REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
8. PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.

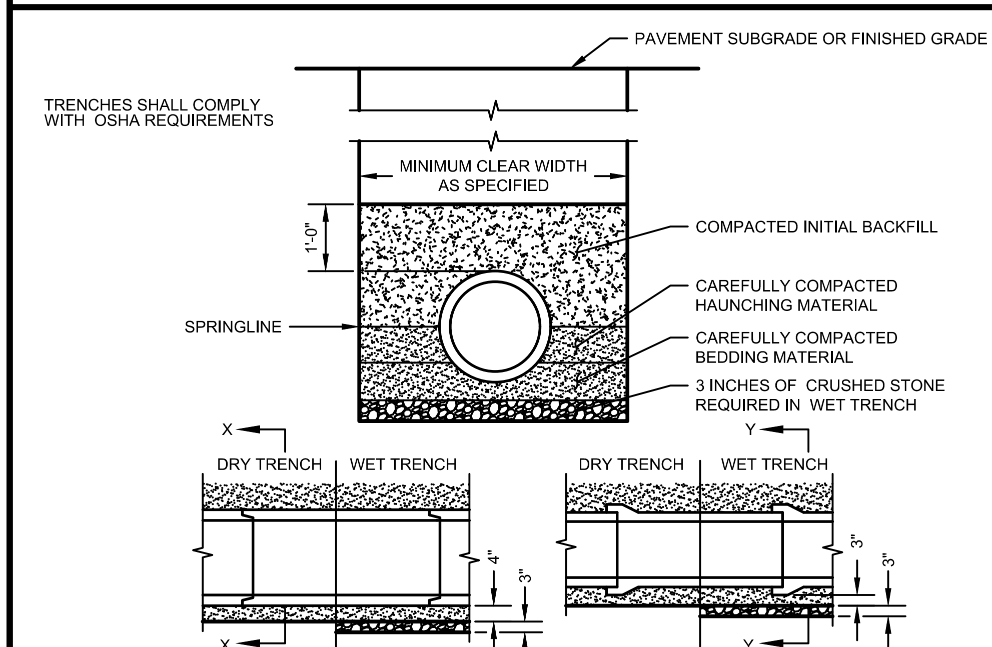
2' x 3' INLET WITH SUMP DETAIL

NO SCALE



STORM SEWER CONNECTION DETAIL

NO SCALE



TONGUE AND GROOVE PIPE

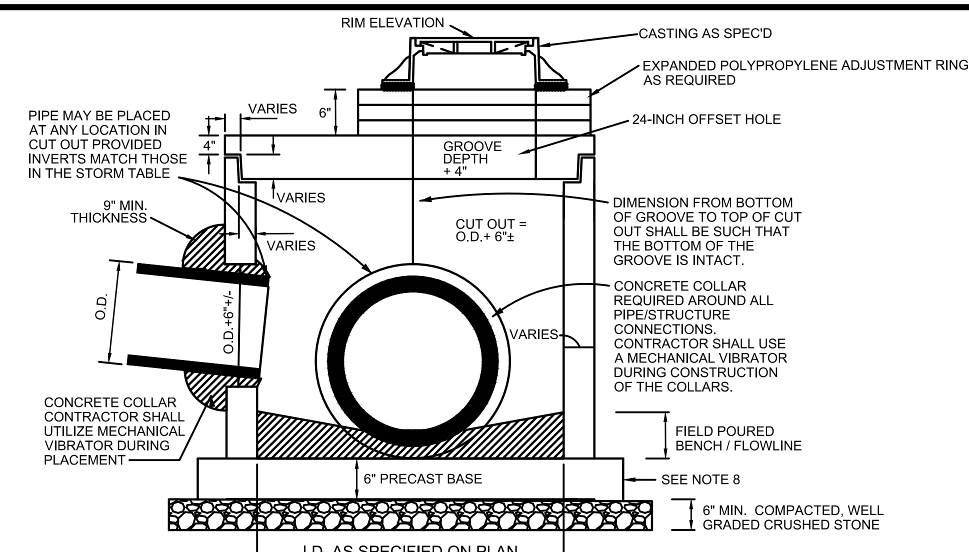
BELL AND SPIGOT PIPE

GENERAL NOTES:

1. BEDDING AND HAUNCHING MATERIAL SHALL BE WELL-GRADED 3/4 TO 1/4 INCH CRUSHED STONE OR OTHER NON-COHESIVE MATERIAL NOT SUBJECT TO MIGRATION AND FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
2. BEDDING MATERIAL TO BE PLACED BEFORE SETTING PIPE, 4 INCH MINIMUM UNDER BARREL WITH 3 INCH MINIMUM UNDER BELL.
3. INITIAL BACKFILL SHALL BE DENSELY COMPACTED, NON-COHESIVE FINELY DIVIDED MATERIAL FREE OF DEBRIS, ORGANIC MATERIAL, AND LARGE STONES.
4. IN ROCK OR OTHER UNCOMPRESSIBLE MATERIALS, THE TRENCH SHALL BE OVEREXCAVATED A MINIMUM OF 6-INCHES AND REFILLED WITH GRANULAR MATERIAL.

CLASS "B" EMBEDMENT FOR RIGID PIPE DETAIL

NO SCALE

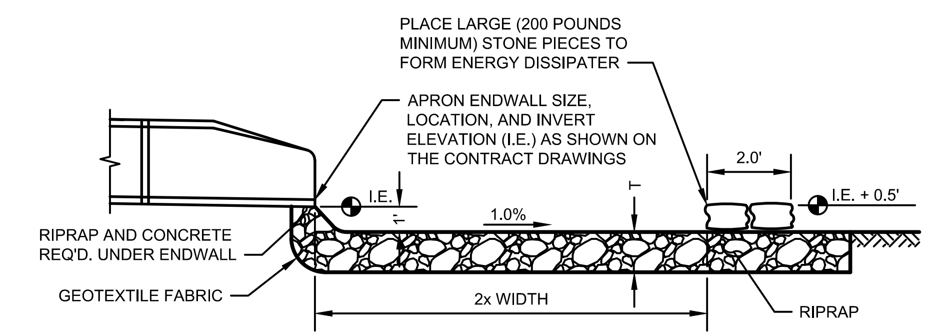


GENERAL NOTES:

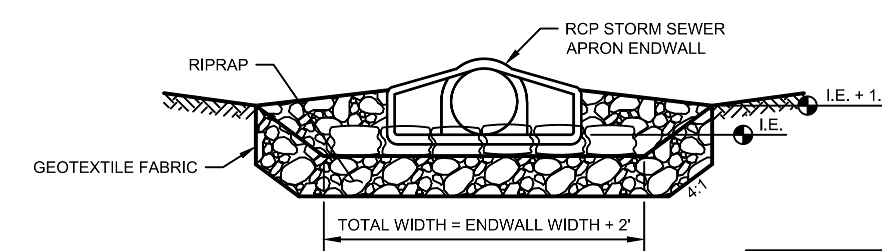
1. SEE PLANS FOR SIZE, NUMBER, AND LOCATION OF PIPES.
2. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
3. DETAILED DRAWINGS FOR PROPOSED ALTERNATE DESIGNS FOR UNDERGROUND DRAINAGE STRUCTURES SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PROVIDING THAT SUCH ALTERNATE DESIGNS MAKE PROVISION FOR EQUIVALENT CAPACITY AND STRENGTH.
4. ALL PRECAST INLET UNITS SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF AASHTO DESIGNATION M 199.
5. PRECAST REINFORCED BASES SHALL BE PLACED ON A BED OF MATERIAL AT LEAST 6 INCHES IN DEPTH, WHICH MEETS THE REQUIREMENTS FOR WELL GRADED CRUSHED STONE. THIS BEDDING SHALL BE COMPACTED AND PROVIDE UNIFORM SUPPORT FOR THE ENTIRE AREA OF THE BASE.
6. ALL BAR STEEL AND WELDED WIRE FABRIC REINFORCEMENT SHALL BE EMBEDDED 2 INCHES CLEAR UNLESS OTHERWISE SHOWN OR NOTED.
7. PRECAST REINFORCED CONCRETE RISERS SHALL BE PLACED WITH TONGUE DOWN.
8. OVERHANGING BASE NOT REQUIRED WHERE INTEGRAL BASE IS ALLOWED. SEE SPECIAL PROCEDURES OR CONTACT ENGINEER TO VERIFY.

STORM MANHOLE DETAIL

NO SCALE



SIDE VIEW



FRONT VIEW

RIPRAP CLASS	T
RIPRAP	12"
MEDIUM RANDOM	18"
HEAVY	24"

GENERAL NOTES:

1. DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE SPECIFICATIONS.
2. THE RIPRAP CLASS AND GEOTEXTILE FABRIC TYPE SHALL BE AS SHOWN ON THE PLANS AND REQUIRED IN THE SPECIFICATIONS.

STORM SEWER OUTFALL DETAIL

NO SCALE

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	DESIGNED BY:	DWB	-	-	-	-
	CHECKED BY:	DWB	-	-	-	-

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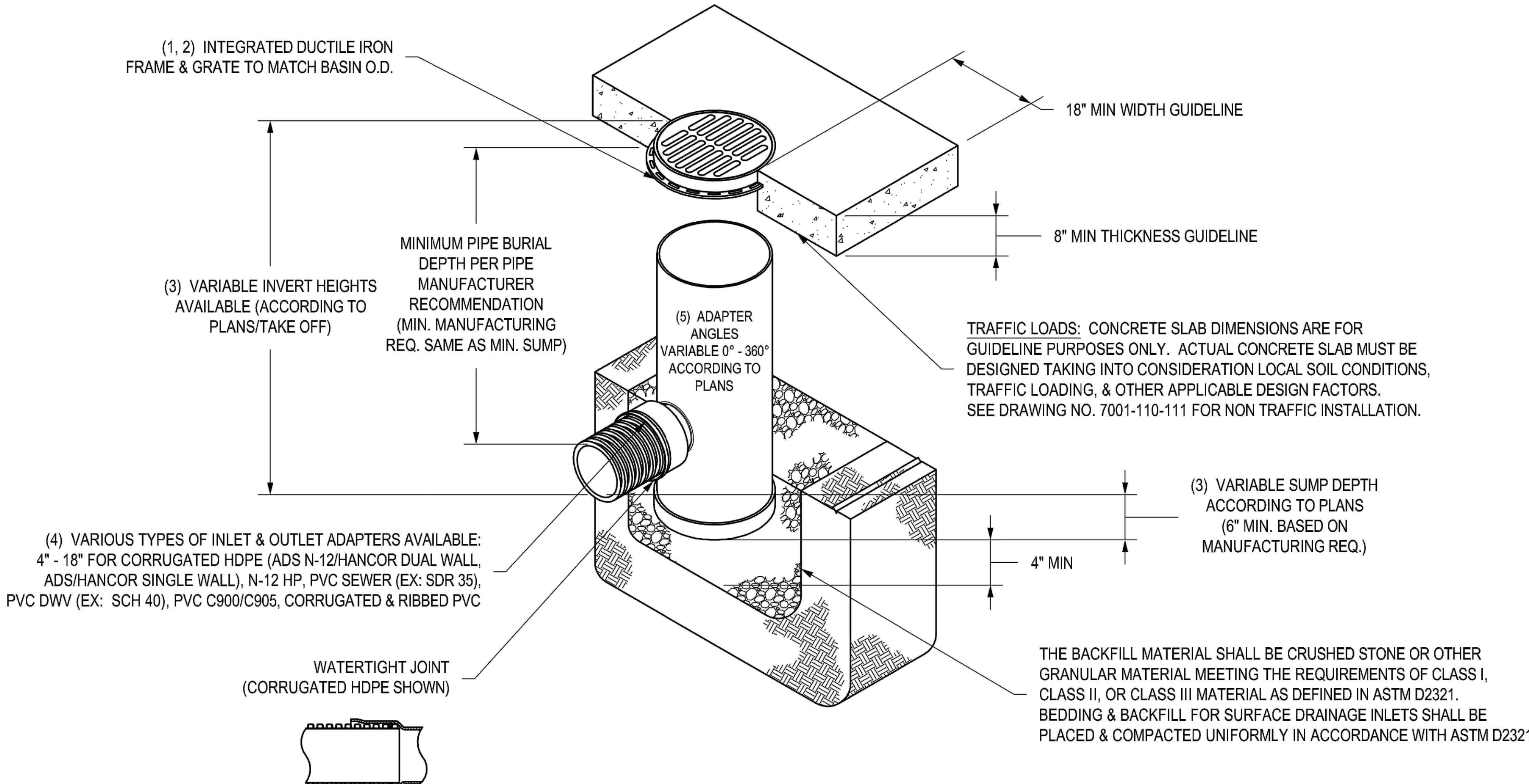
STORM SEWER DETAILS

PROJECT NO. 08781007

SHEET G 15

NYLOPLAST 18" DRAIN BASIN: 2818AG _ _ X



GRATE OPTIONS	LOAD RATING	PART #	DRAWING #
PEDESTRIAN	MEETS H-10	1899CGP	7001-110-212
STANDARD	MEETS H-20	1899CGS	7001-110-213
SOLID COVER	MEETS H-20	1899CGC	7001-110-214
DOME	N/A	1899CGD	7001-110-215
DROP IN GRATE	LIGHT DUTY	1801DI	7001-110-074

1 - GRATES/SOLID COVER SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2 - FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.

DRAWN BY EBC	MATERIAL	ADS Nyloplast	3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com
DATE 04-03-06			
REVISED BY NMH	PROJECT NO./NAME	TITLE	18 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL
DATE 03-14-16			
DWG SIZE A	SCALE 1:30 SHEET 1 OF 1	DWG NO. 7001-110-191	REV E

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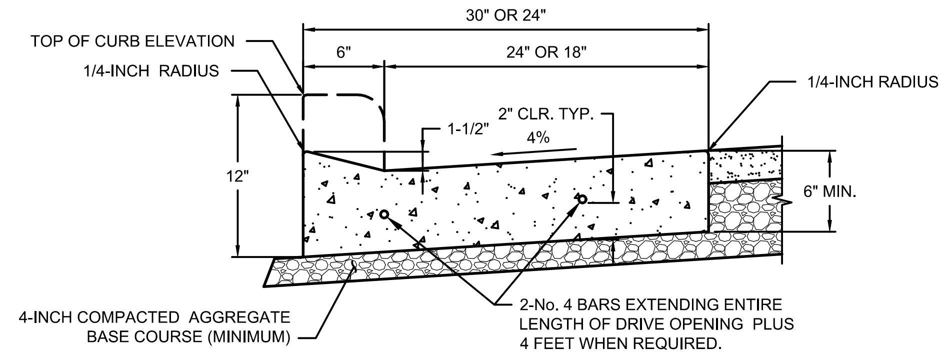
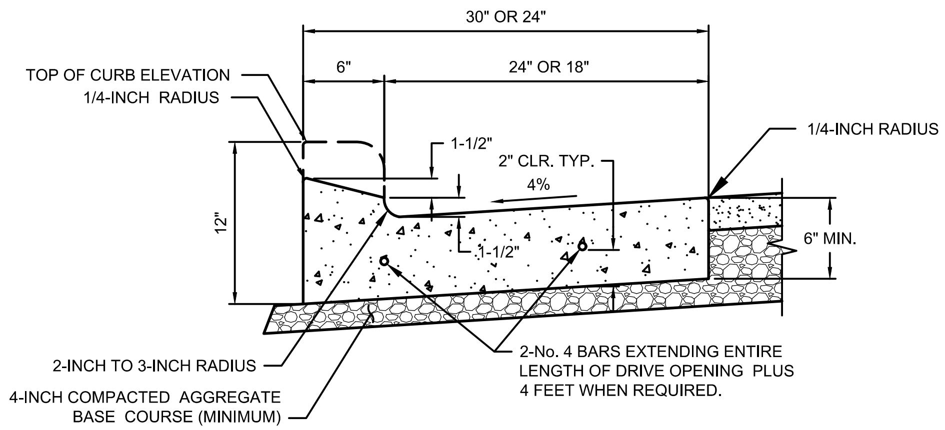
STORM SEWER DETAILS

PROJECT NO. 08781007

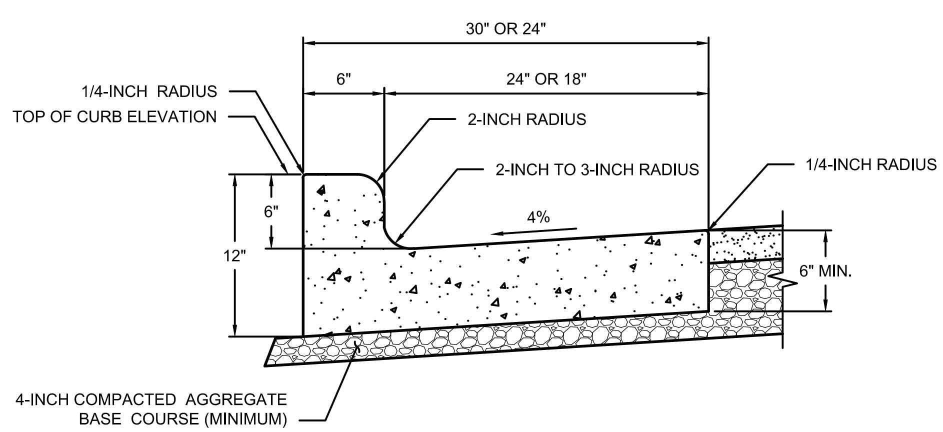
SHEET G 16



DRIVEWAY SECTION



SPECIAL DRIVEWAY SECTION

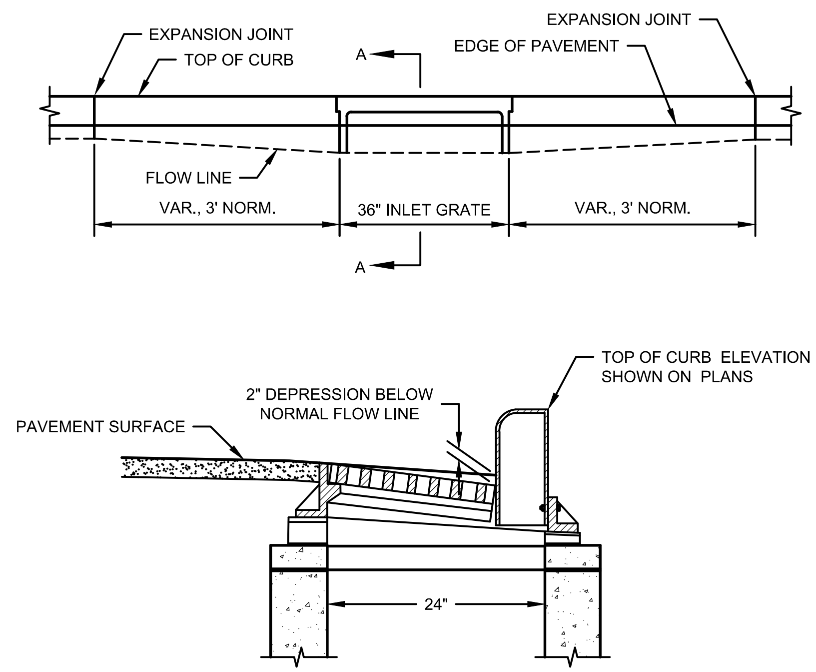


STANDARD SECTION

TYPE L CURB AND GUTTER DETAIL

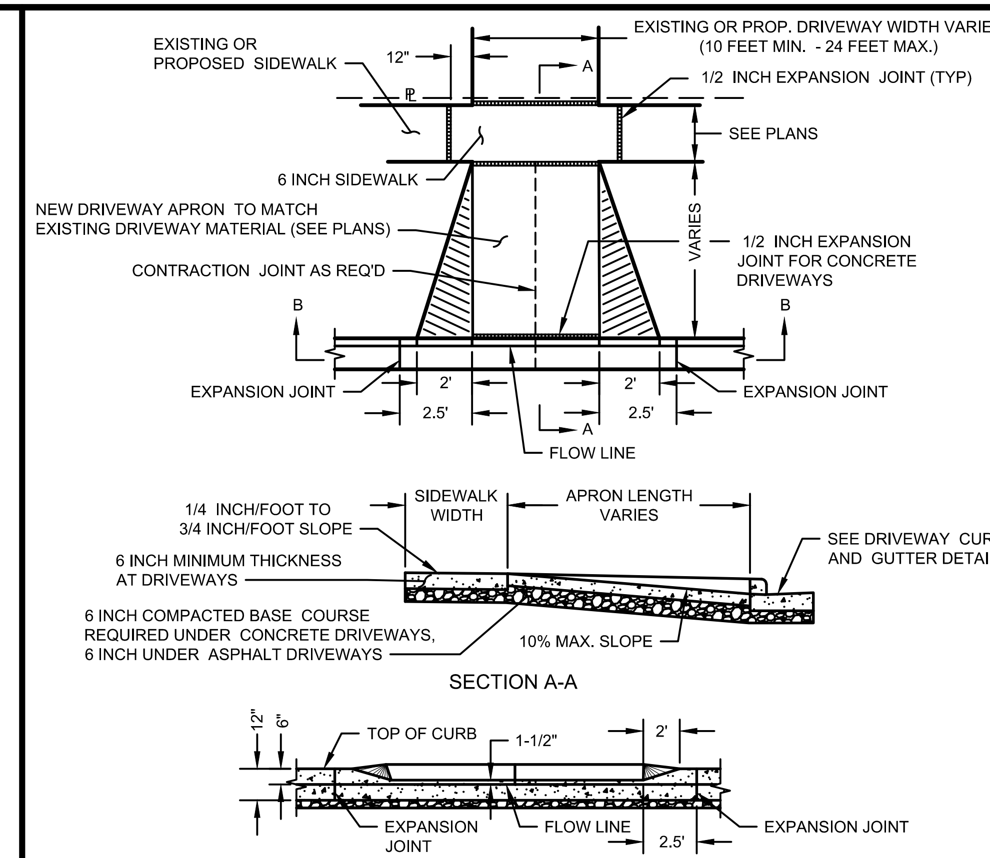
NO SCALE

NOTE TO SPECIFIER: DELETE REINFORCEMENT IF NOT REQUIRED, OR VERIFY THAT REINFORCEMENT IS CALLED OUT IN PLANS/SPECS



CURB AND GUTTER AT INLETS DETAIL

NO SCALE



DRIVEWAY DETAIL

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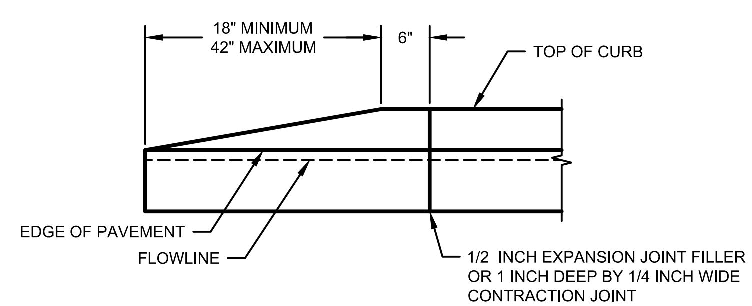
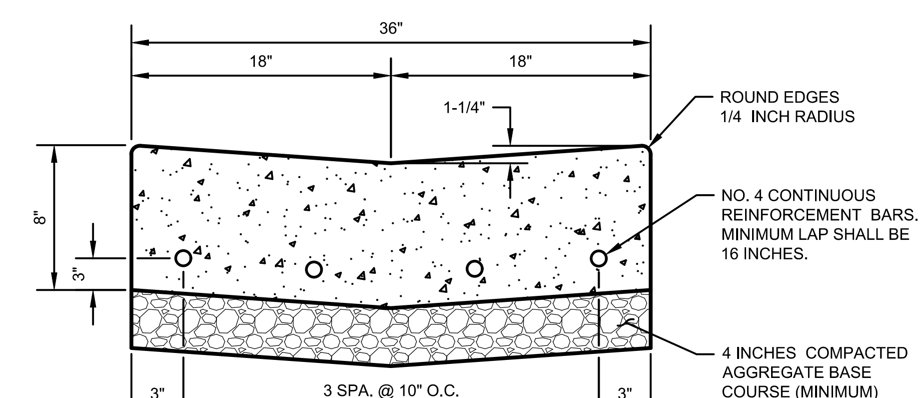


CURB END DETAIL

NO SCALE



GENERAL NOTES:

1. BAR STEEL REINFORCEMENT SHALL BE EMBEDDED 3 INCHES CLEAR.
2. BAR STEEL REINFORCEMENT SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
3. BAR STEEL REINFORCEMENT SHALL BE FREE OF ALL RUST AND MILL SCALE.
4. CAST-IN-PLACE CONCRETE SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.
5. CONCRETE ACCESSORIES OF EXPANSION JOINT MATERIAL AND CURING COMPOUND SHALL BE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATIONS.

CONCRETE FLUME DETAIL

NO SCALE

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ROADWAY DETAILS

PROJECT NO. 08781007

SHEET G 17

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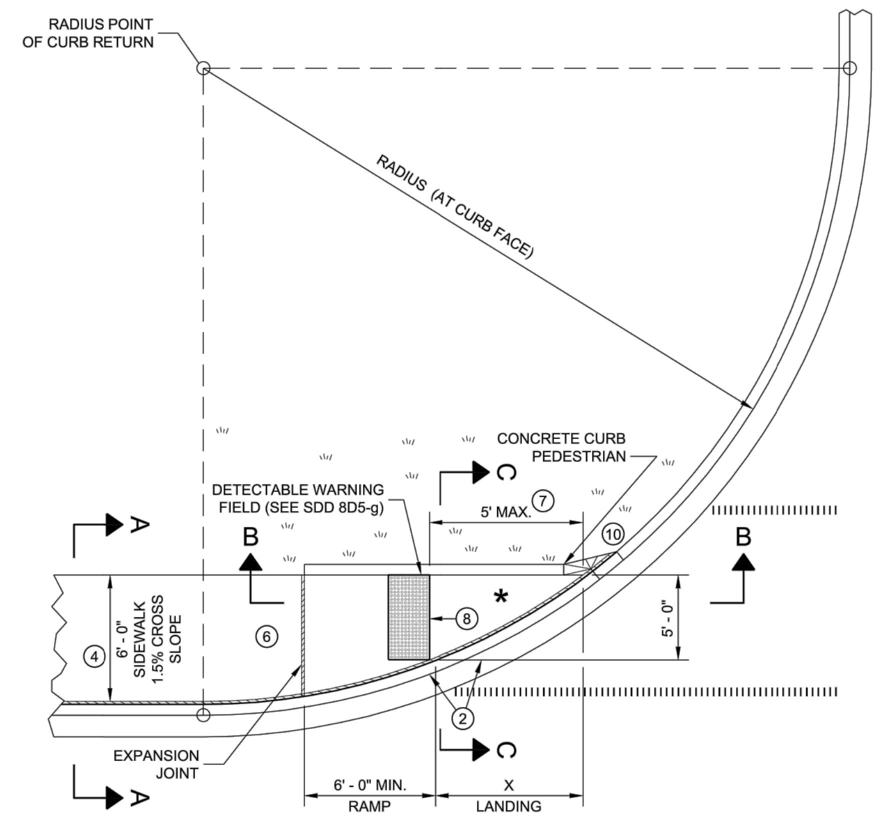
ROADWAY DETAILS

PROJECT NO.
08781007

SHEET
G 18

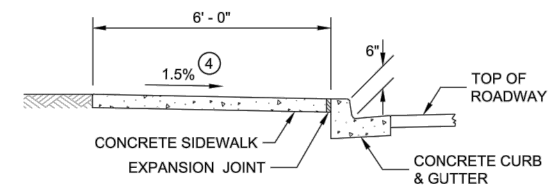
SDD 08D05-c Curb Ramps Types 4A and 4A1



PLAN VIEW
CURB RAMP TYPE 4A

RADIUS (AT CURB FACE)	X
10 FEET	4' - 7"
15 FEET	6' - 5½"

INTERMEDIATE RADII CAN BE INTERPOLATED



SECTION A - A FOR TYPE 4A

GENERAL NOTES

AVOID PLACING DRAINAGE STRUCTURES, JUNCTION BOXES OR OTHER OBSTRUCTIONS IN FRONT OF RAMP ACCESS AREAS.

DETAILS OF CONSTRUCTION, MATERIALS AND WORKMANSHIP NOT SHOWN ON THIS DRAWING SHALL CONFORM TO THE PERTINENT REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND THE APPLICABLE SPECIAL PROVISIONS.

DETECTABLE WARNING FIELDS THAT ARE INSTALLED AS A GROUP OR SIDE BY SIDE, SHALL BE FROM THE SAME MANUFACTURER.

(2) GRADE CHANGE BETWEEN GUTTER FLAG SLOPE AND THE CURB RAMP SLOPE SHALL NOT EXCEED 11%. MAXIMUM GUTTER FLAG SLOPE IS 4%. PROVIDE LONGITUDINAL DRAINAGE AROUND CURB AND AWAY FROM CURB RAMP. NO VERTICAL LIPS OR DISCONTINUITIES GREATER THAN ¼ - INCH ARE ALLOWED. SLOPE OF CURB HEAD OPENING SHALL MATCH THE RAMP SLOPE, MINIMALLY 1.5% AND NOT TO EXCEED 7%. WHEN ADJACENT TO 1.5% LANDING, CONSTRUCT CURB HEAD OPENING AT 1.5% IN THE DIRECTION OF PEDESTRIAN TRAVEL.

(3) AN 8.33% CURB RAMP SLOPE IS ALLOWABLE WITH FLATTENED GUTTER FLAG SLOPE AND NOT TO EXCEED 11% GRADE CHANGE.

(4) ±0.5% CONSTRUCTION TOLERANCE IN SIDEWALK CROSS SLOPE. THE SIDEWALK CROSS SLOPE SHALL NOT EXCEED 2% WITHOUT PRIOR APPROVAL FROM THE ENGINEER.

(6) PROVIDE A LEVEL LANDING (MAXIMUM 2% SLOPE) IN ANY DIRECTION OF PEDESTRIAN TRAVEL. STANDARD LEVEL LANDING SIZE IS 5 FEET BY 5 FEET.

(7) WHEN THIS GRADE BREAK DISTANCE EXCEEDS 5 FEET, USE RADIAL DETECTABLE WARNING FIELD PER SDD 8D5-f.

(8) PROVIDE GRADE BREAK PERPENDICULAR TO DIRECTION OF WHEELCHAIR TRAVEL.

(10) INSTALL TRANSITION NOSE (INCIDENTAL TO OTHER PAY ITEMS). DO NOT MARK TRANSITION NOSE.

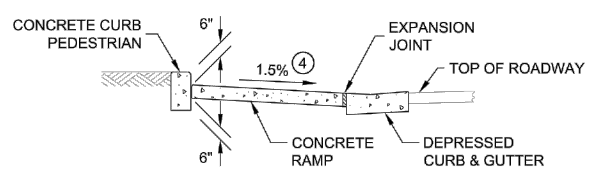
LEGEND

½" EXPANSION JOINT SIDEWALK

CONTRACTION JOINT SIDEWALK

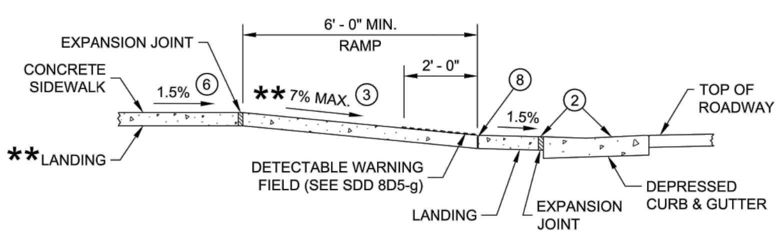
PAVEMENT MARKING CROSSWALK (WHITE)

6



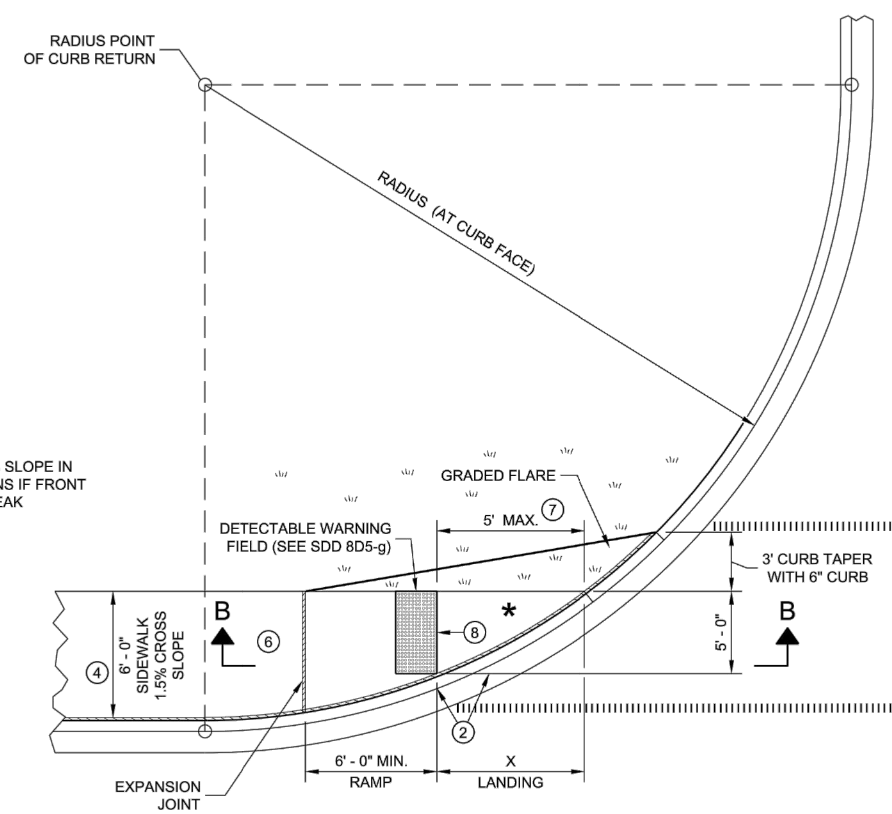
SECTION C - C FOR TYPE 4A

* MAXIMUM 2.0% SLOPE IN ALL DIRECTIONS IF FRONT OF GRADE BREAK

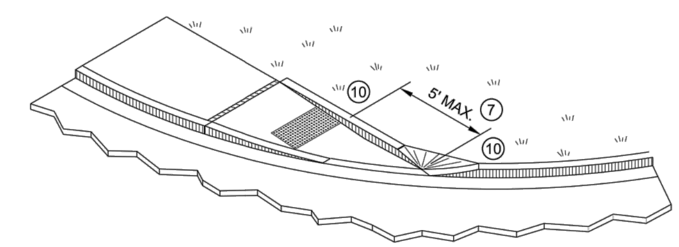


** IF RAMP SLOPE IS LESS THAN 5.0%, THEN NO ADJACENT UPHILL LANDING IS REQUIRED

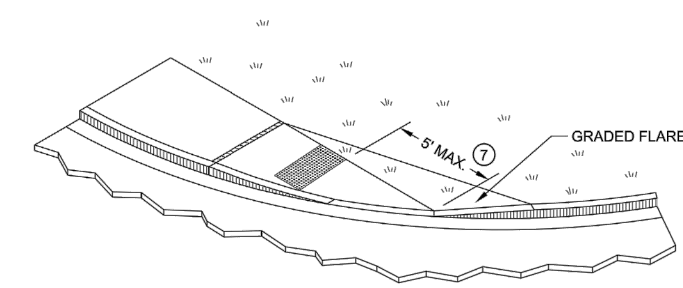
SECTION B - B FOR TYPE 4A AND TYPE 4A1



PLAN VIEW
CURB RAMP TYPE 4A1



ISOMETRIC VIEW FOR TYPE 4A



ISOMETRIC VIEW FOR TYPE 4A1

6

SDD 08D05 - 20c

SDD 08D05 - 20c

CURB RAMPS
TYPE 4A AND 4A1

STATE OF WISCONSIN
DEPARTMENT OF TRANSPORTATION

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MILLER STREET RECONSTRUCTION
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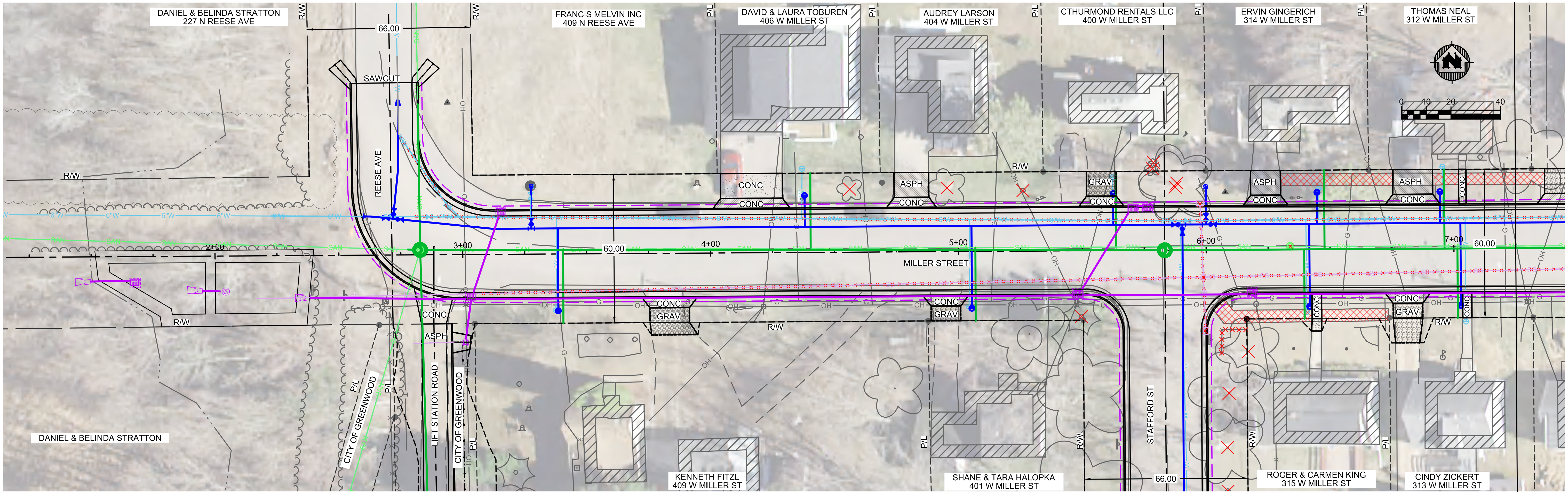
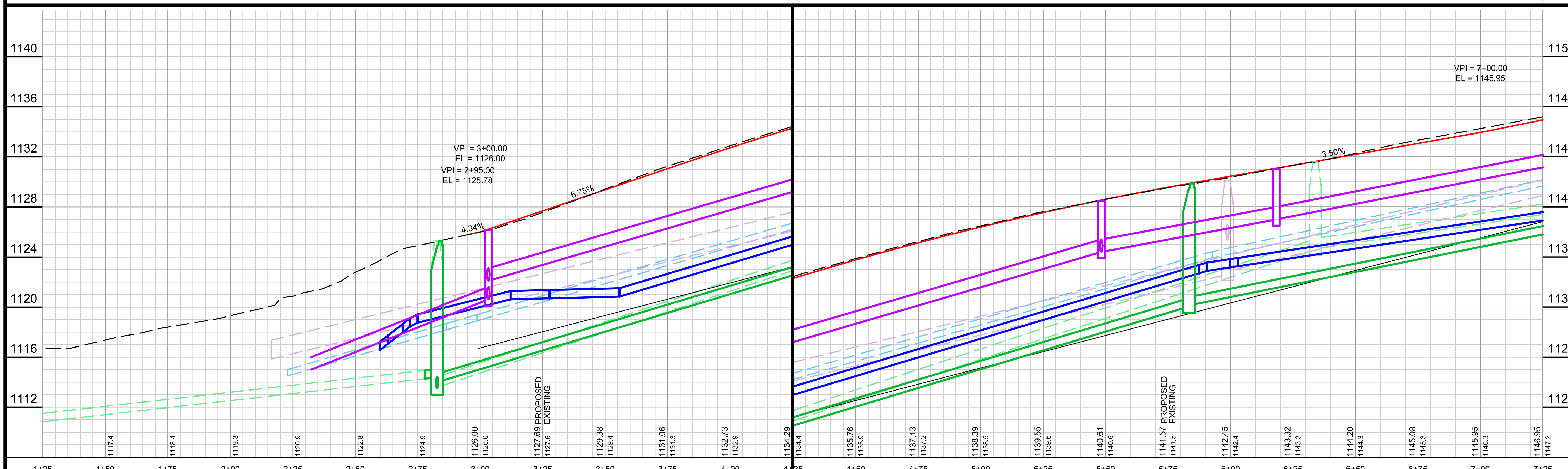
CLARK COUNTY, WISCONSIN

CURB RAMP DETAIL

PROJECT NO. 08781007

SHEET G 19





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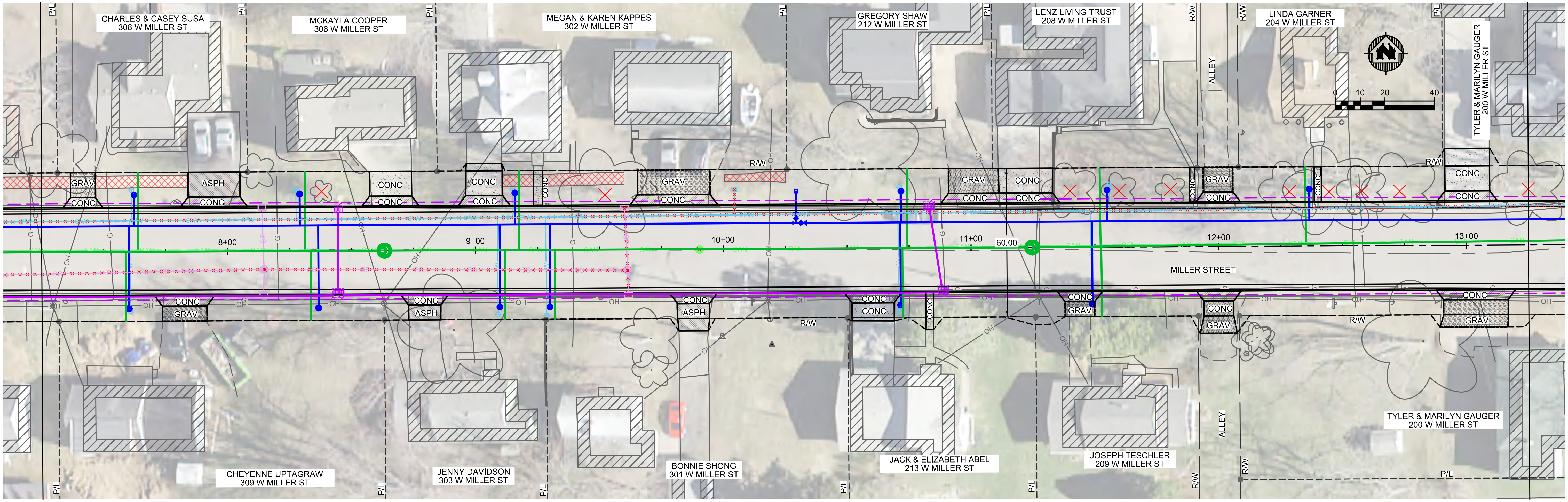
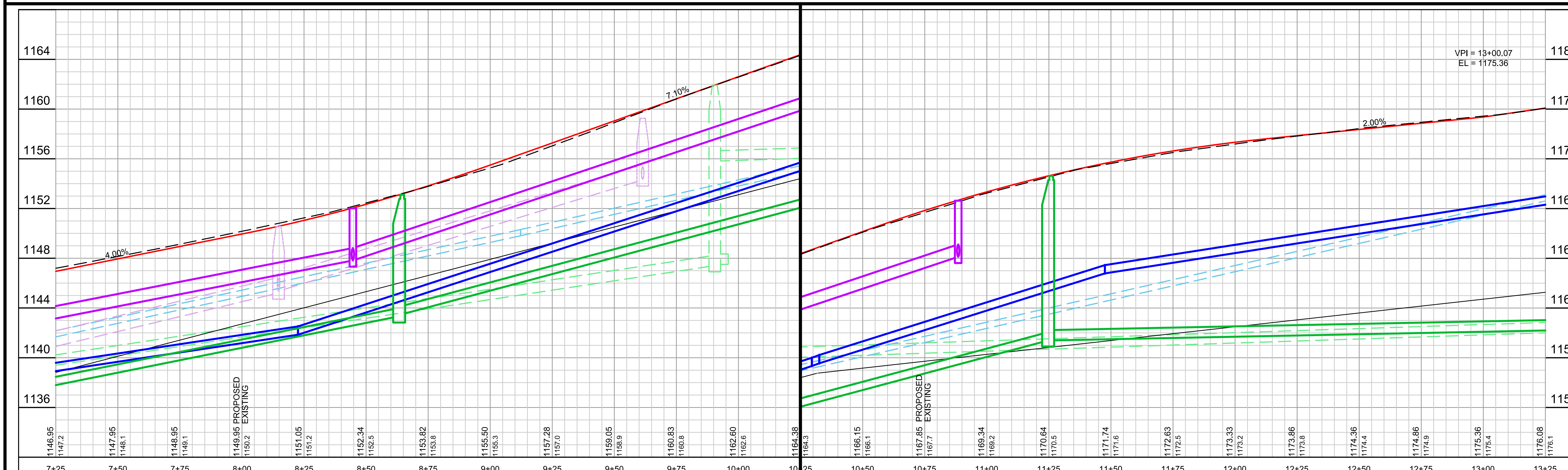
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

PROJECT A - MILLER STREET PLAN AND PROFILE

PROJECT NO. 08781007

SHEET PP1





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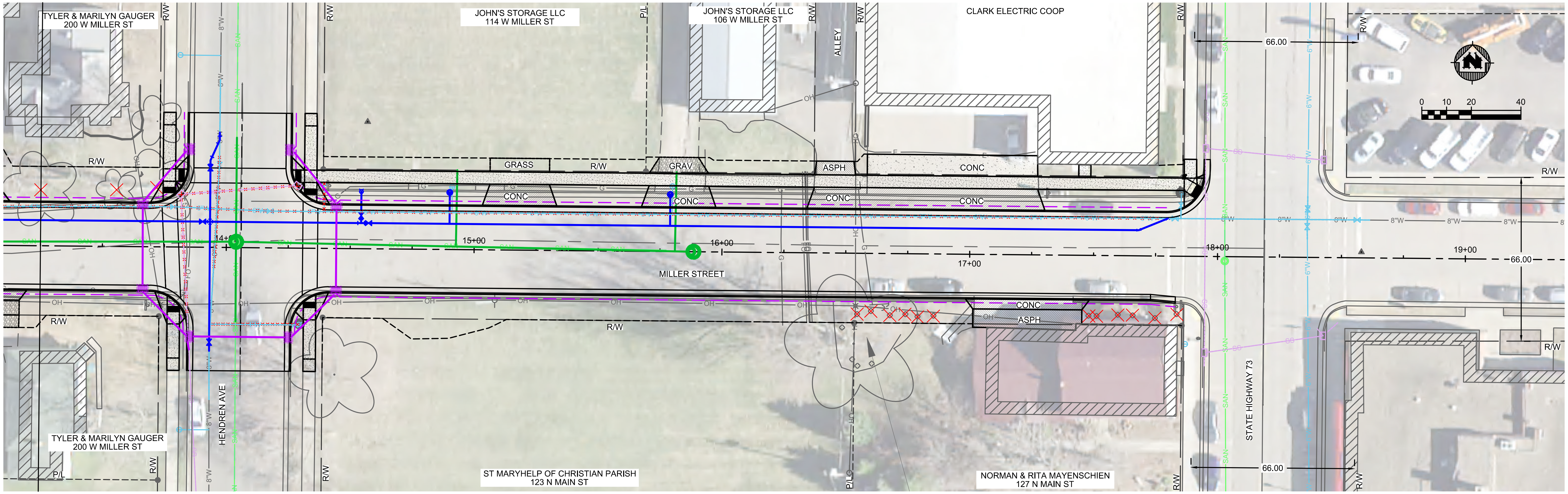
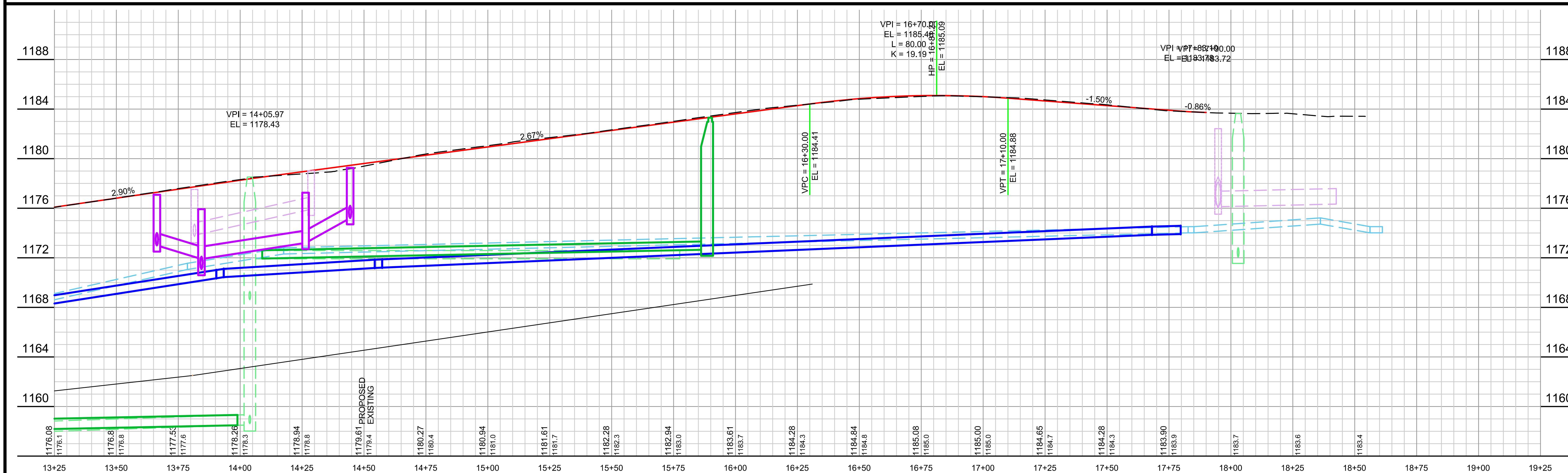
CITY OF GREENWOOD
CLARK COUNTY, WISCONSIN

PROJECT A - MILLER STREET PLAN AND PROFILE

PROJECT NO. 08781007

SHEET PP2





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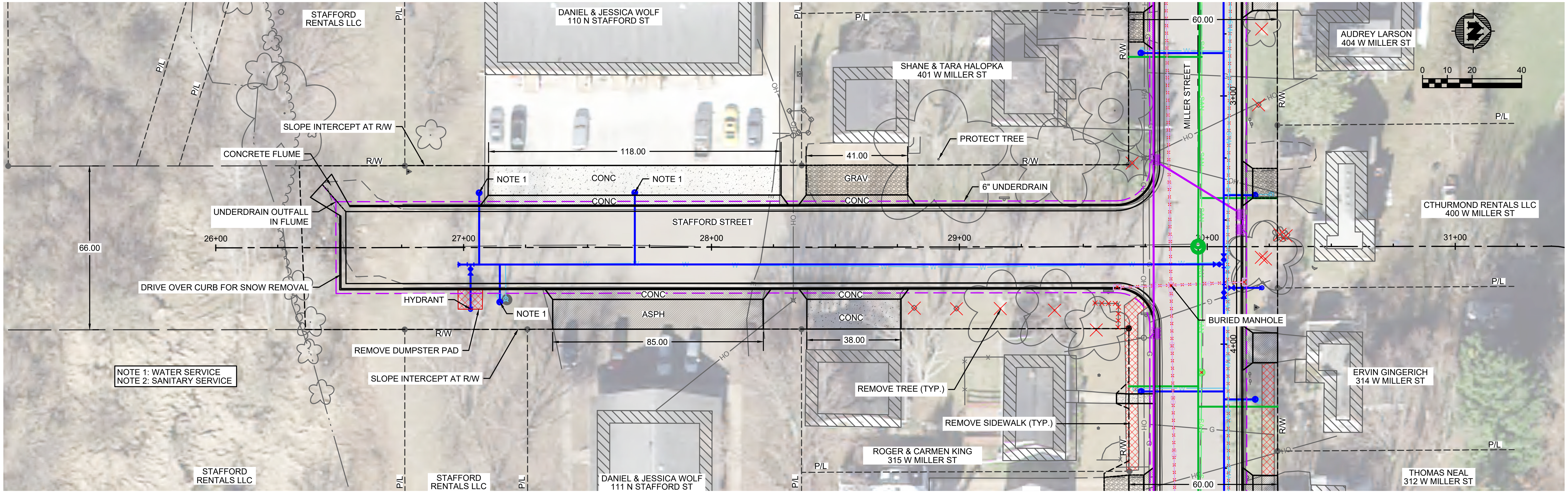
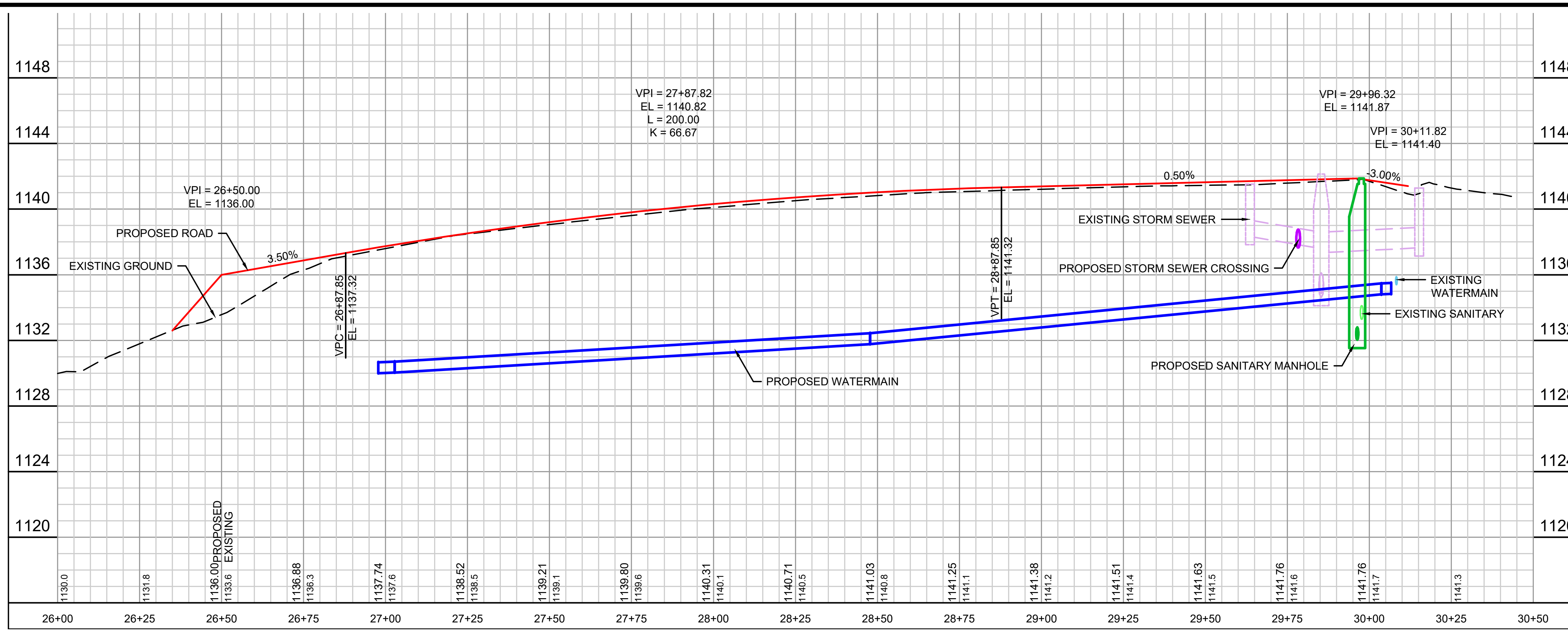
PROJECT A - MILLER STREET PLAN AND PROFILE

PROJECT NO. 08781007
SHEET PP3





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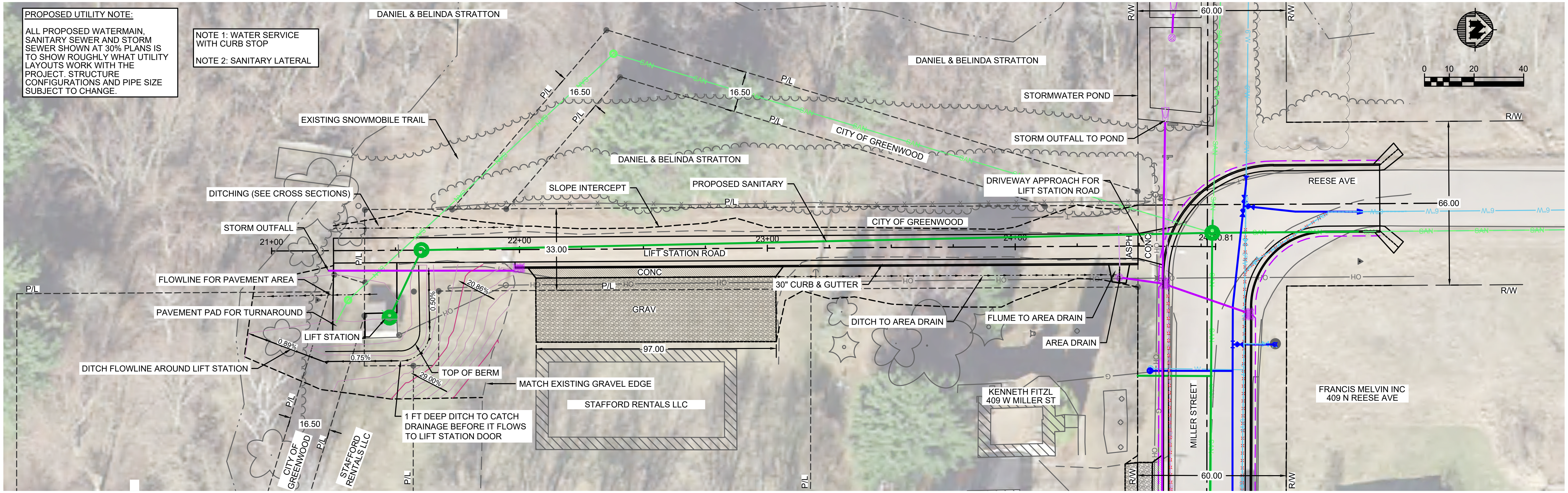
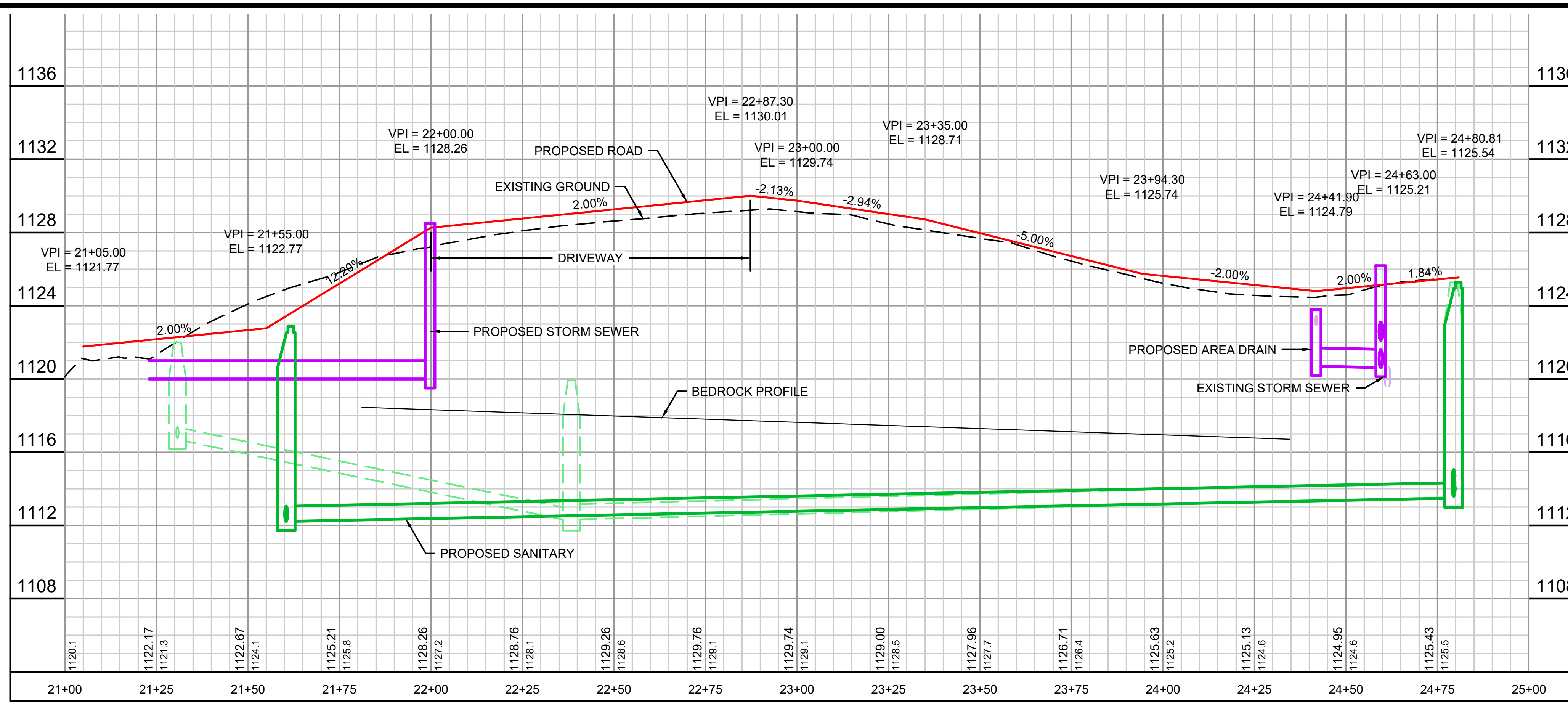
CLARK COUNTY, WISCONSIN

PROJECT A - STAFFORD STREET PLAN AND PROFILE

PROJECT NO. 08781007

SHEET PP4





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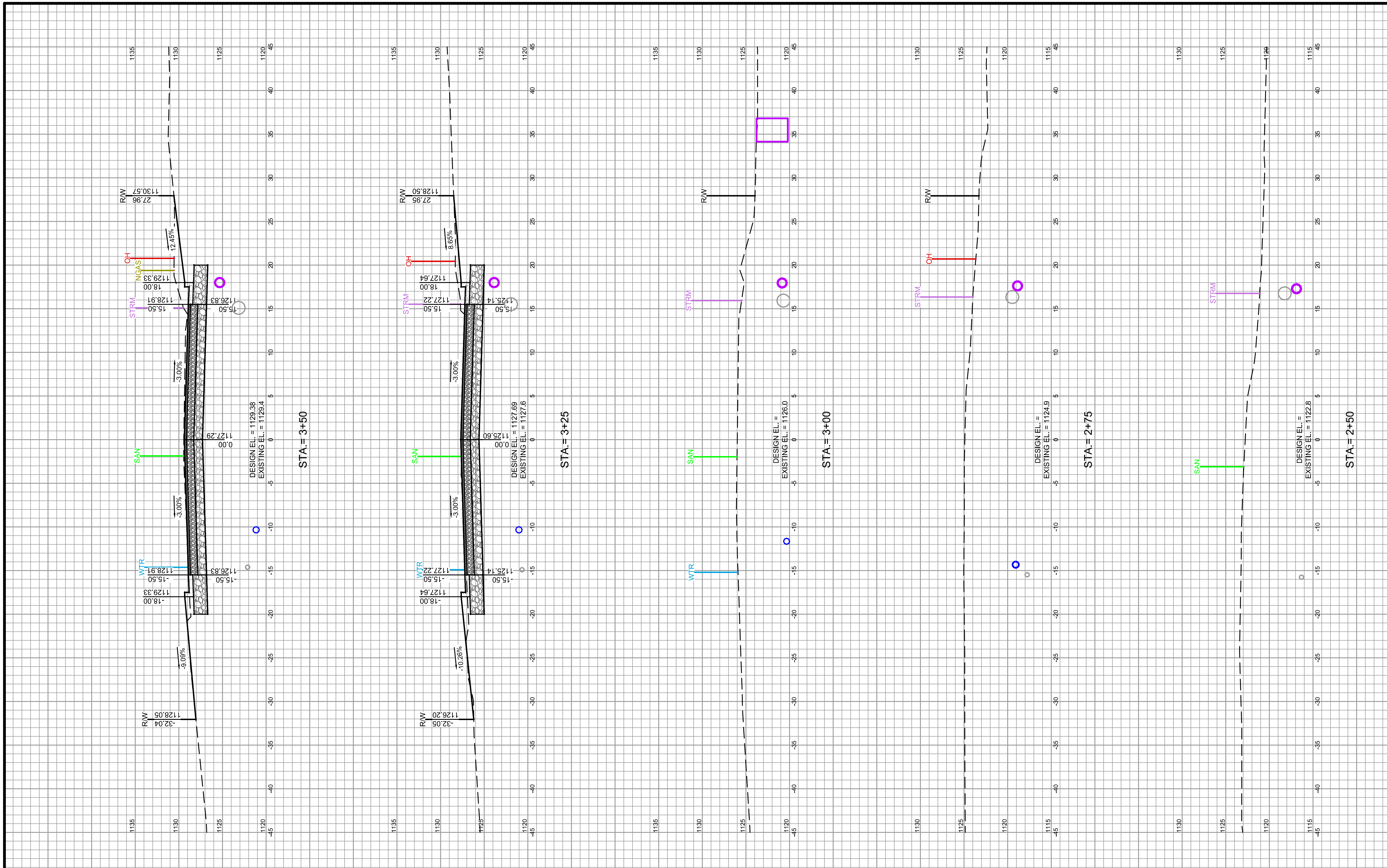
PROJECT B - LIFT STATION ROAD PLAN AND PROFILE

PROJECT NO. 08781007

SHEET PP5



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PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO.
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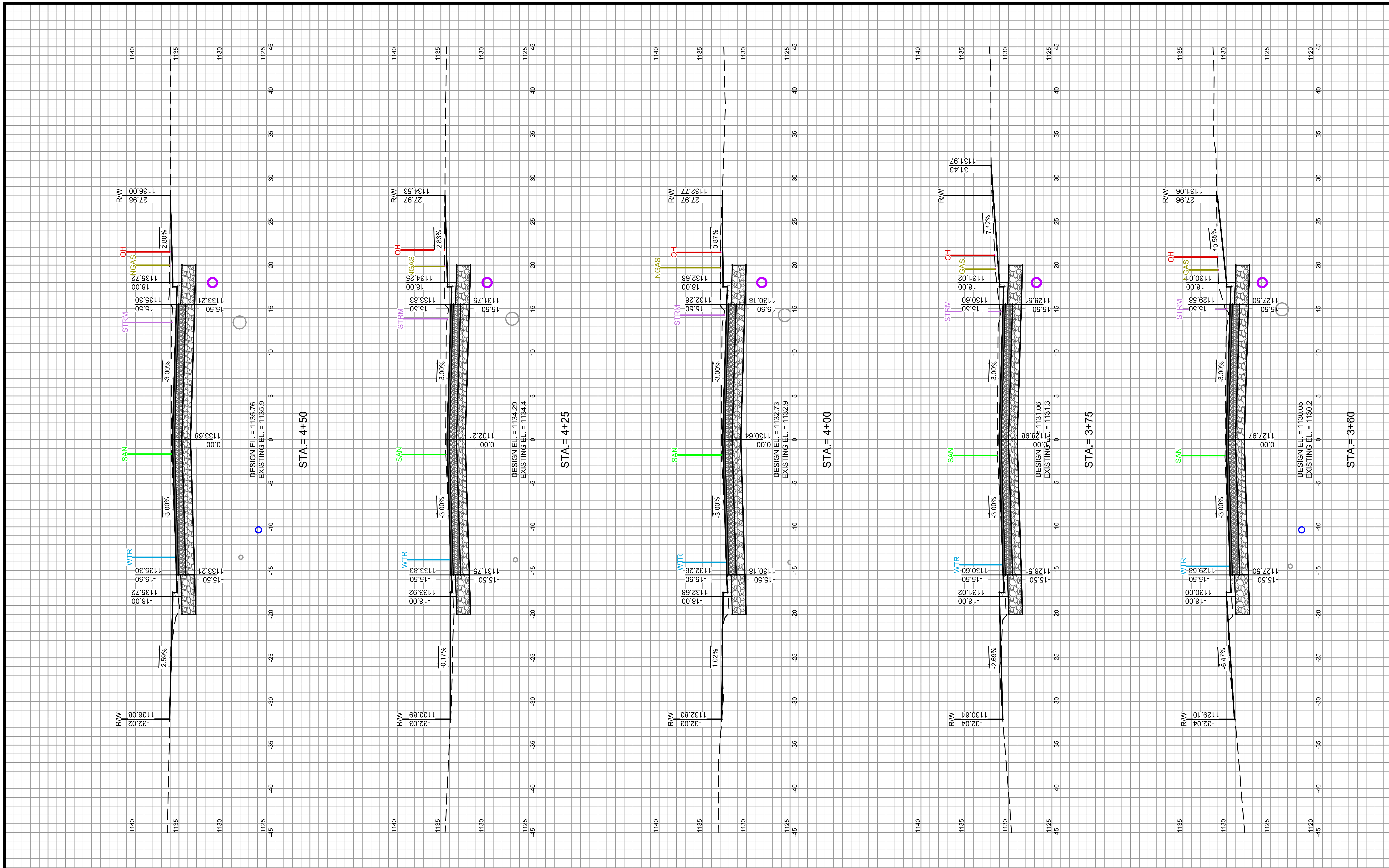
SHEET
CS1



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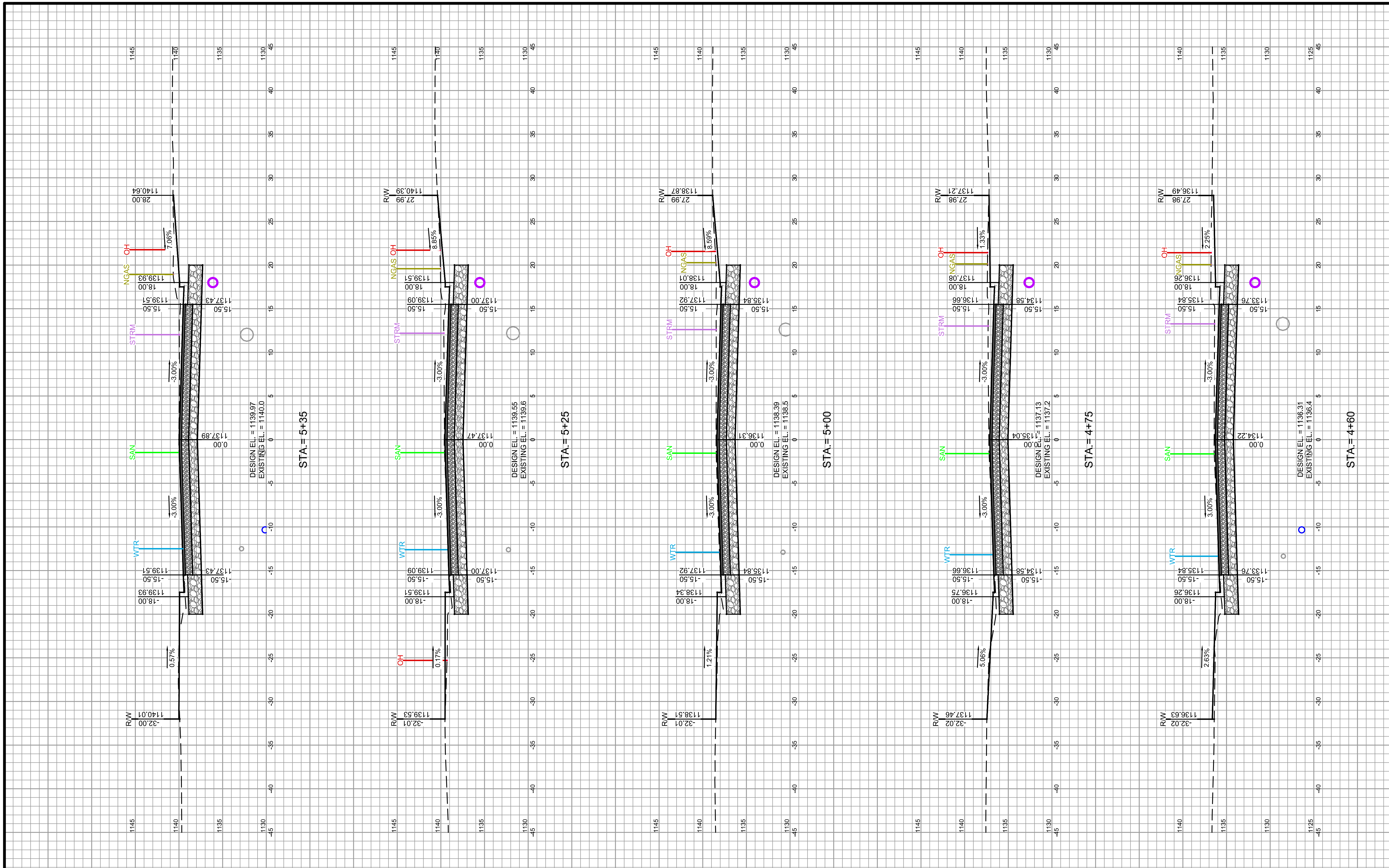
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS2



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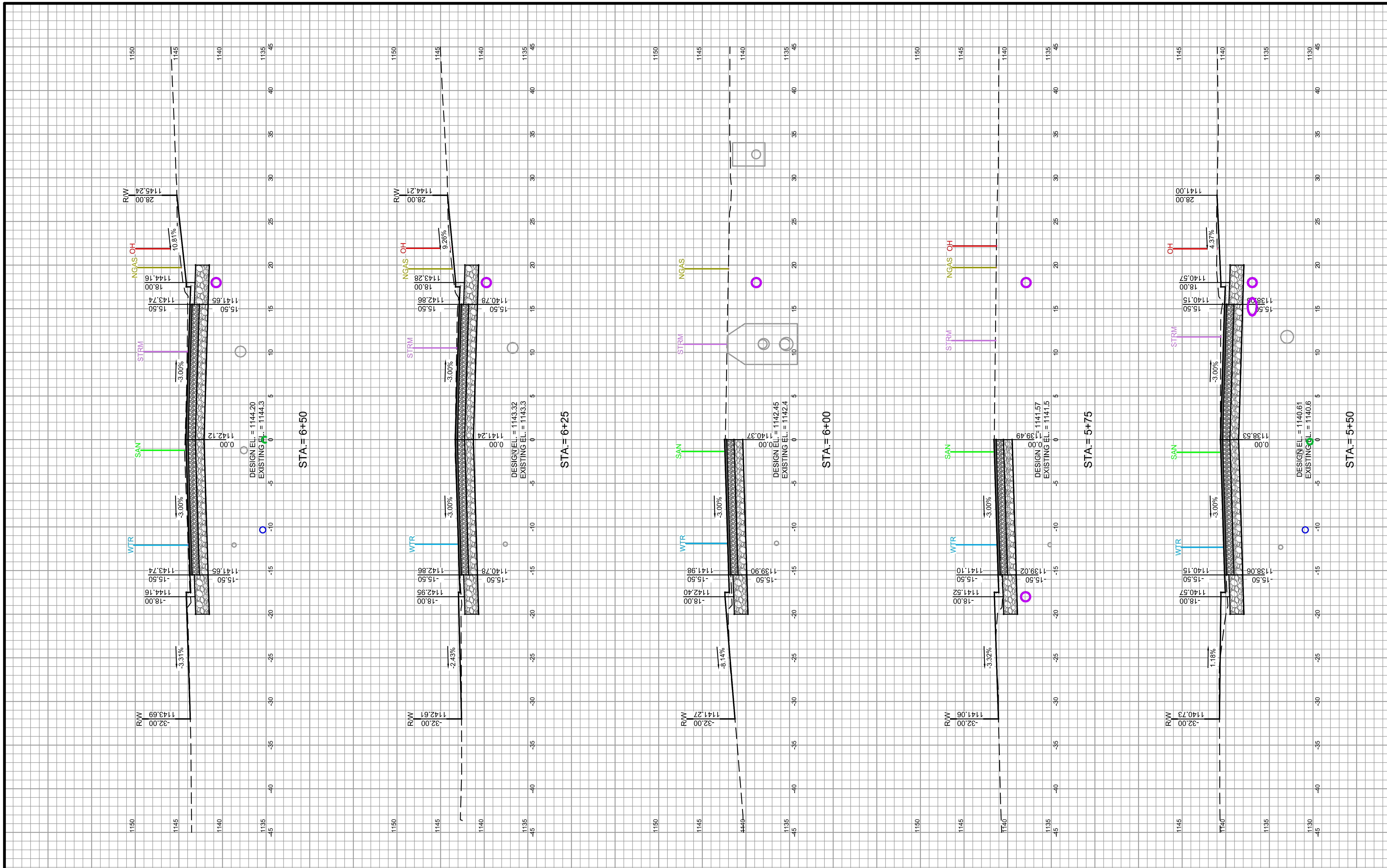
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS3



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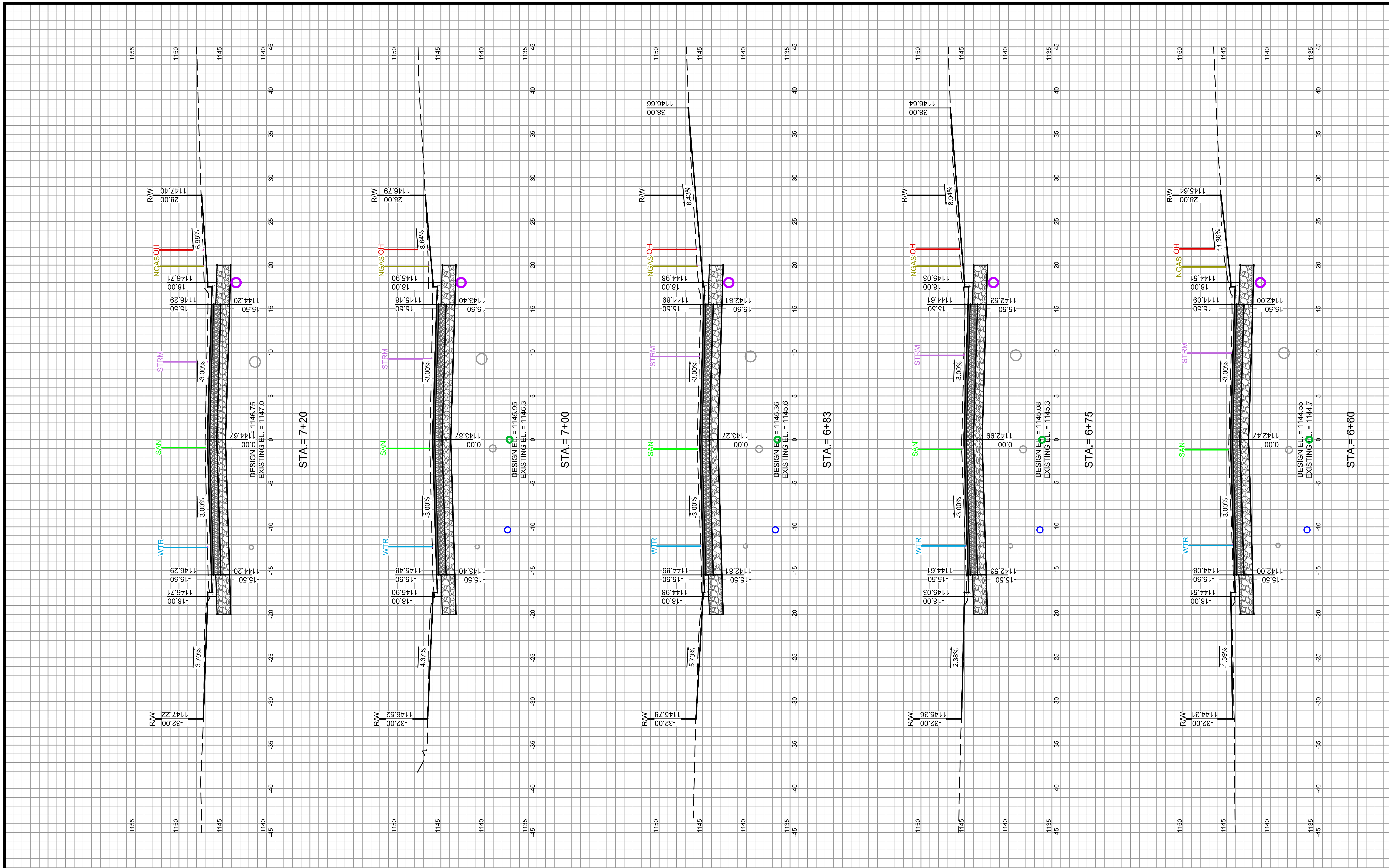
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS4



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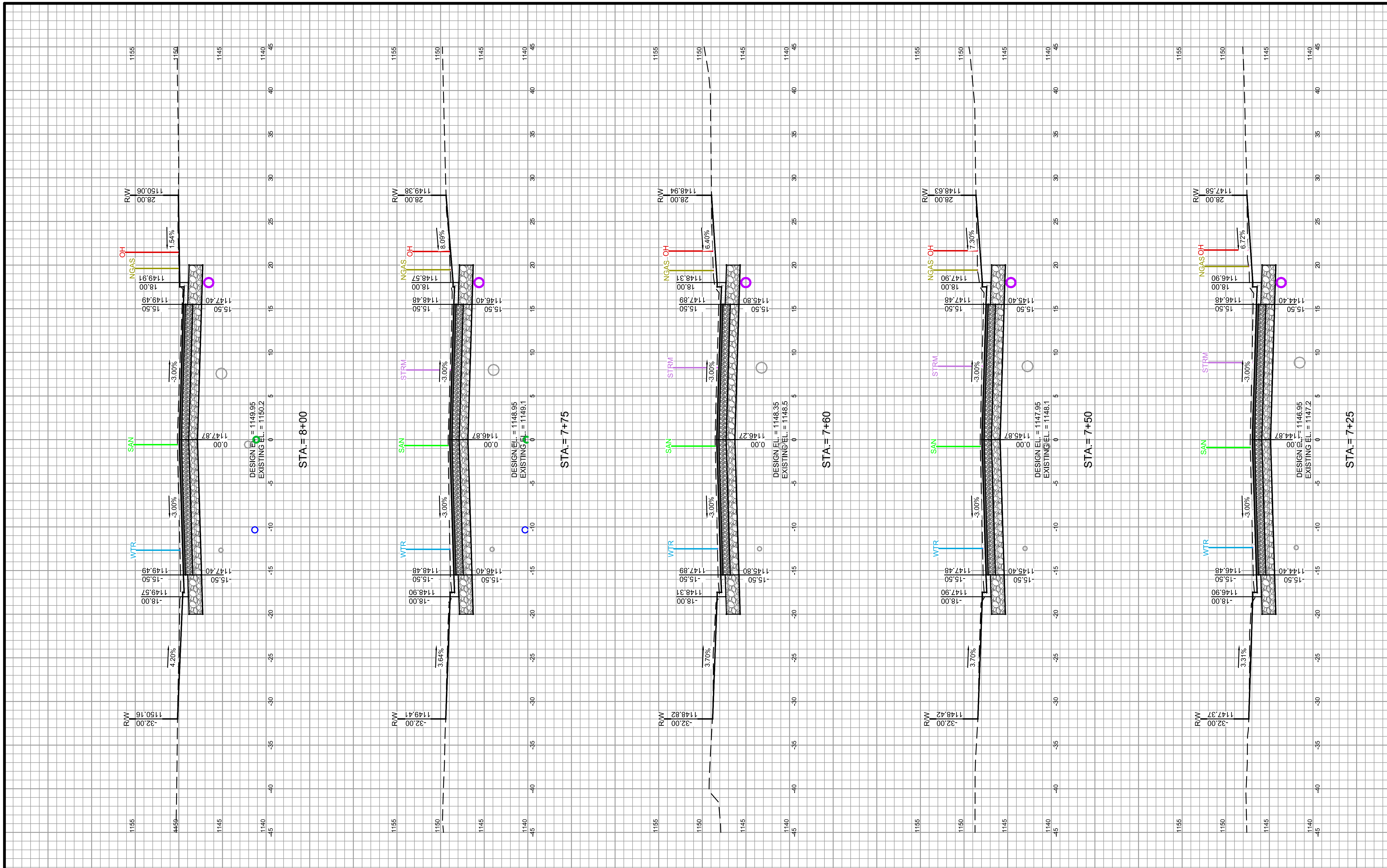
SHEET CS5



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PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO.
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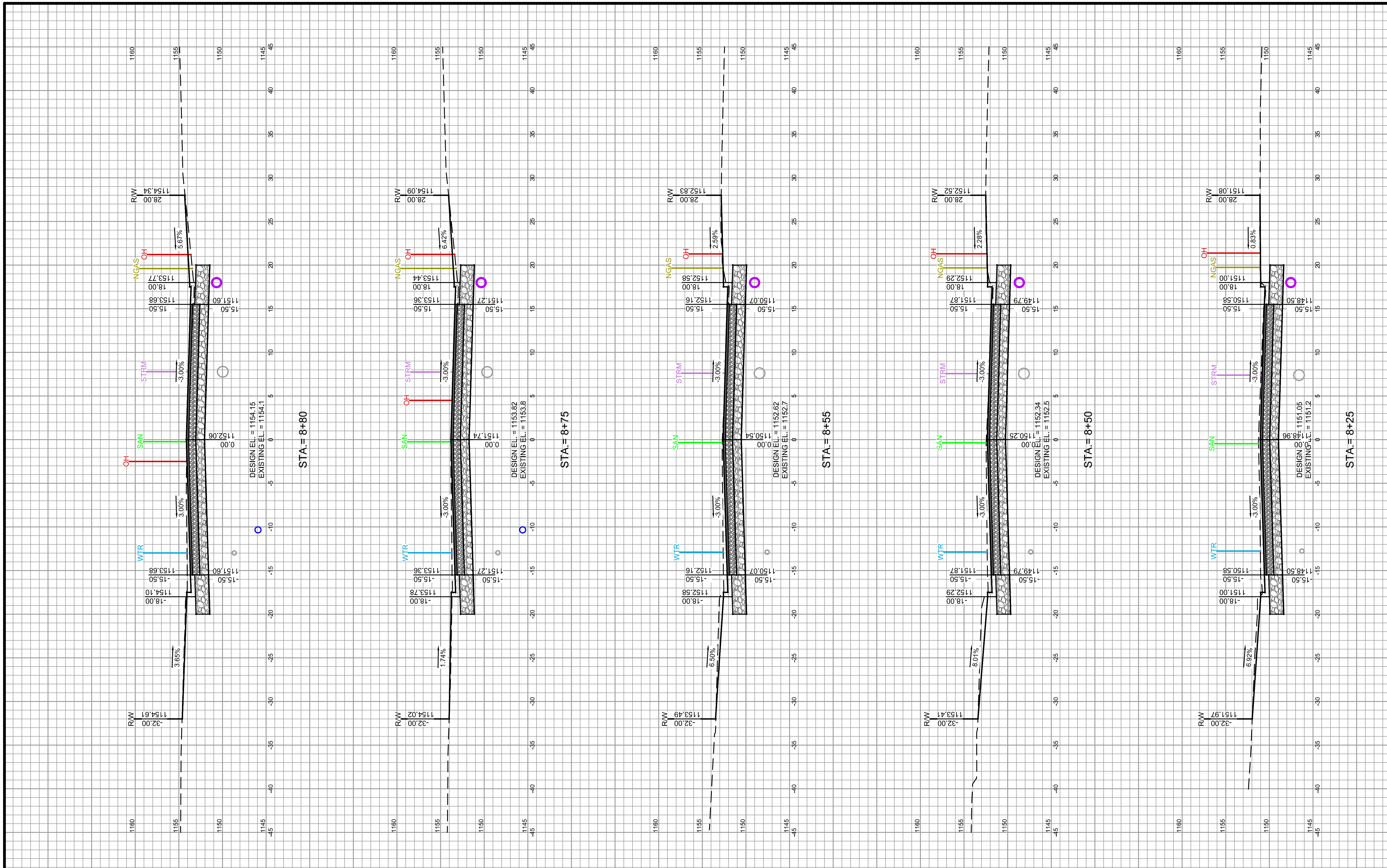
SHEET
CS6



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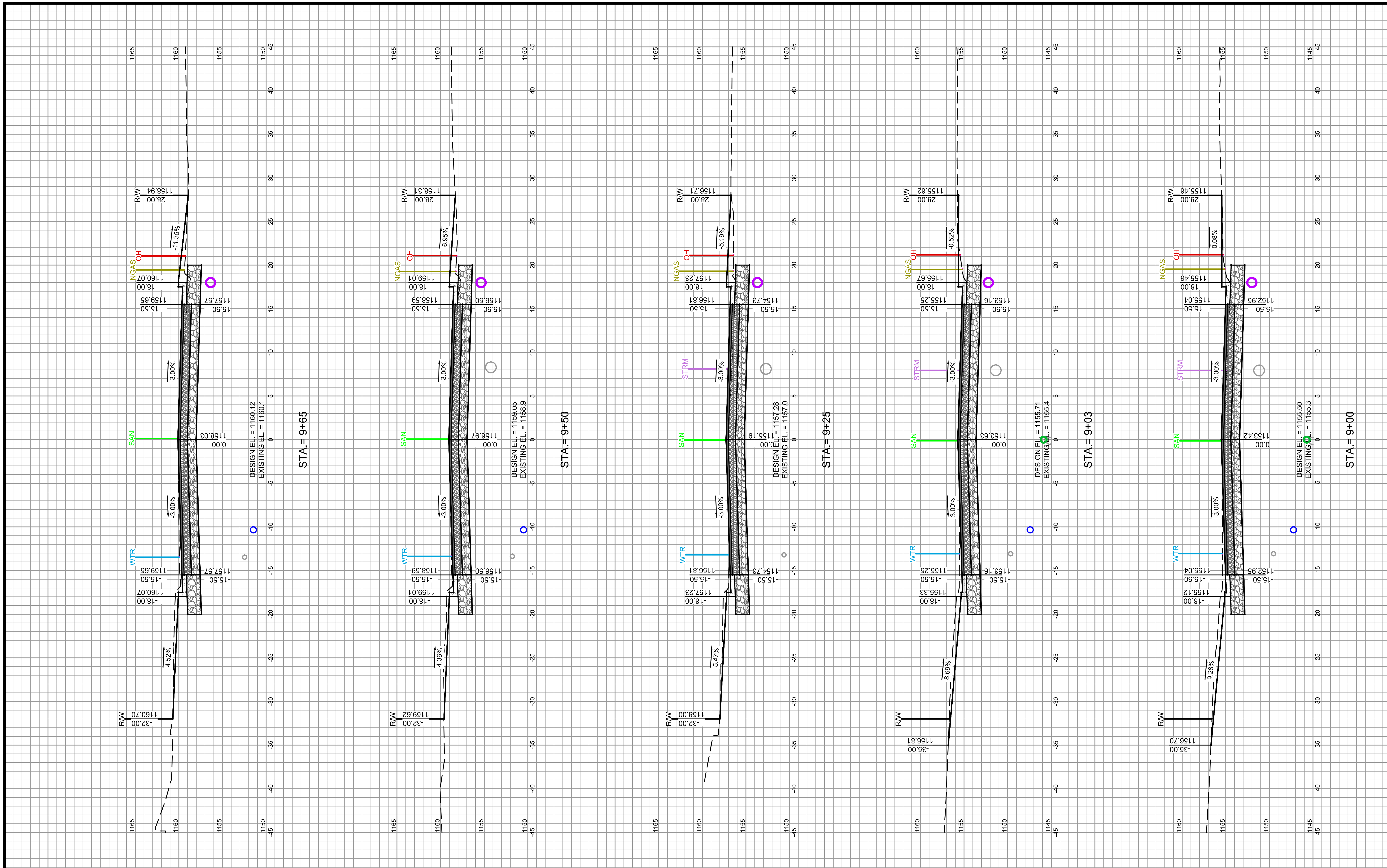
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS7



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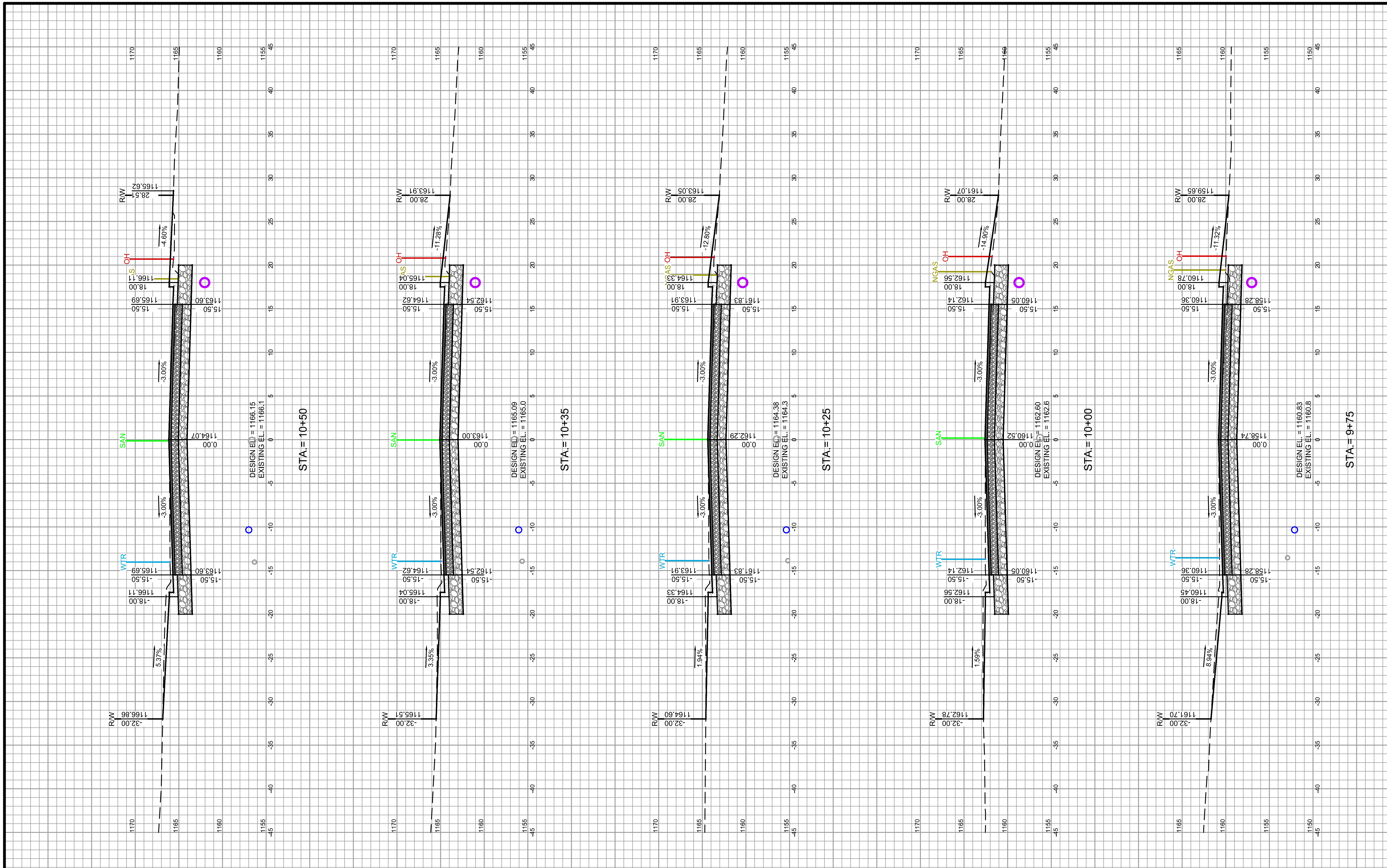
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS8



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CITY OF GREENWOOD
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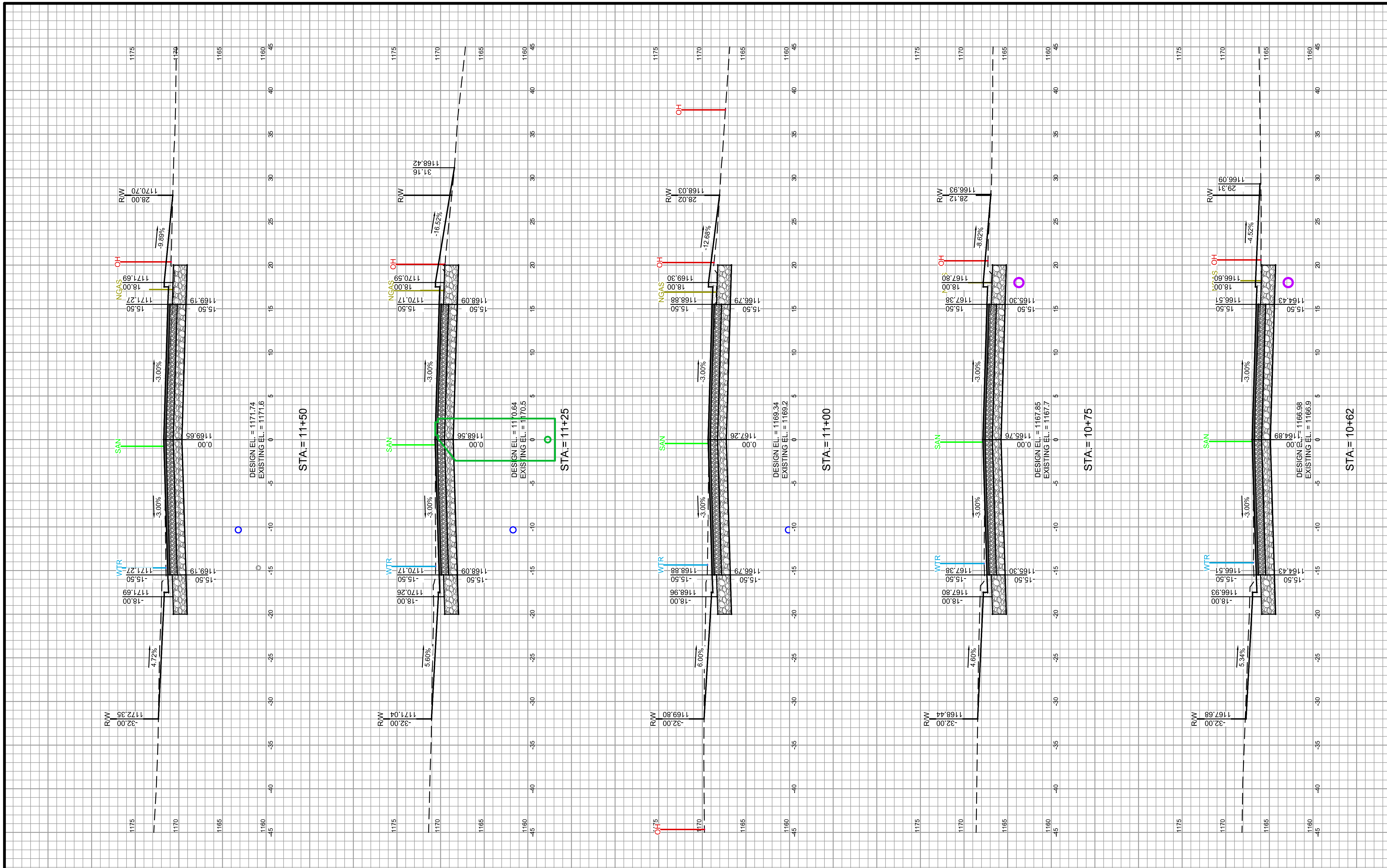
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS9



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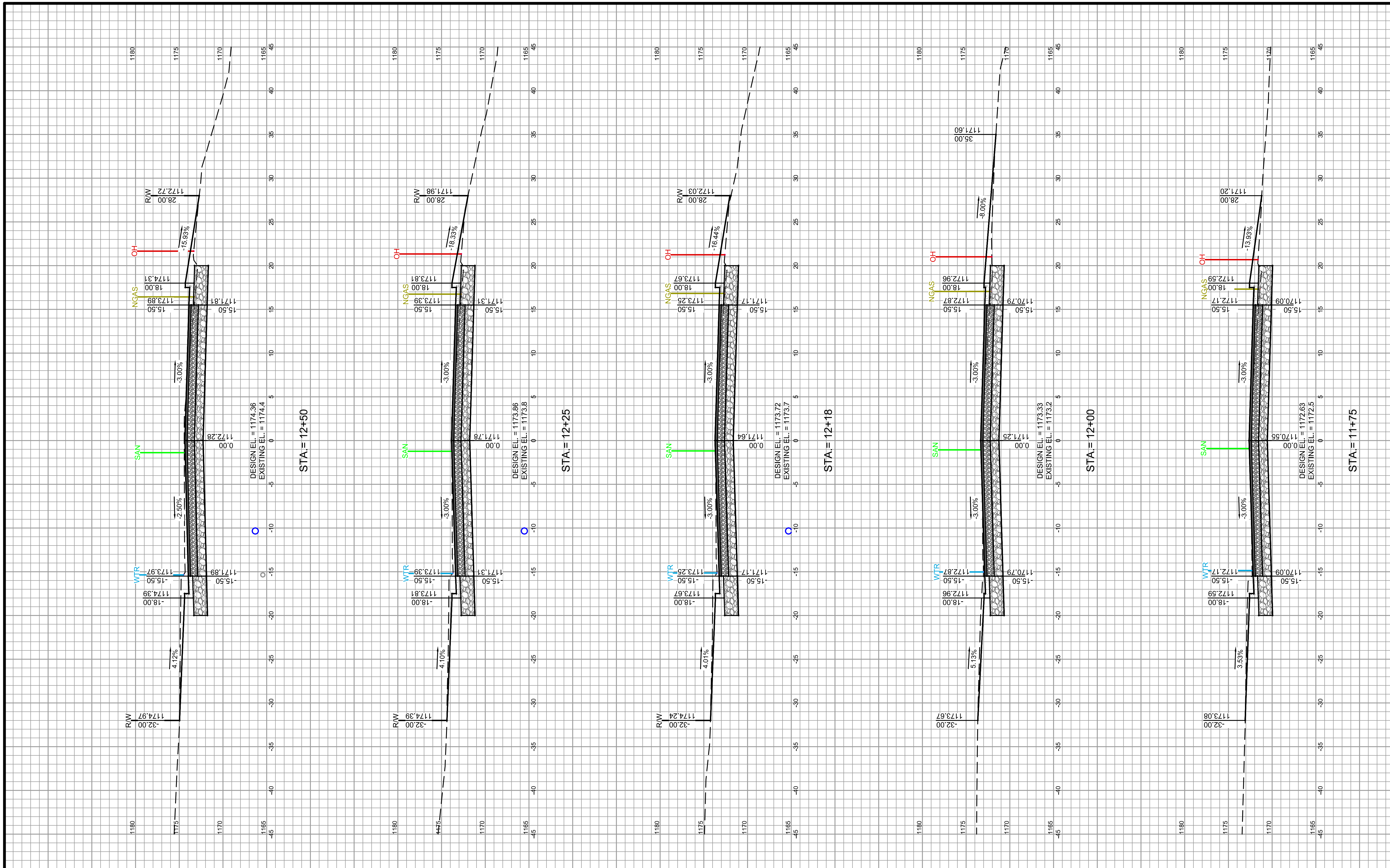
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007
SHEET CS10



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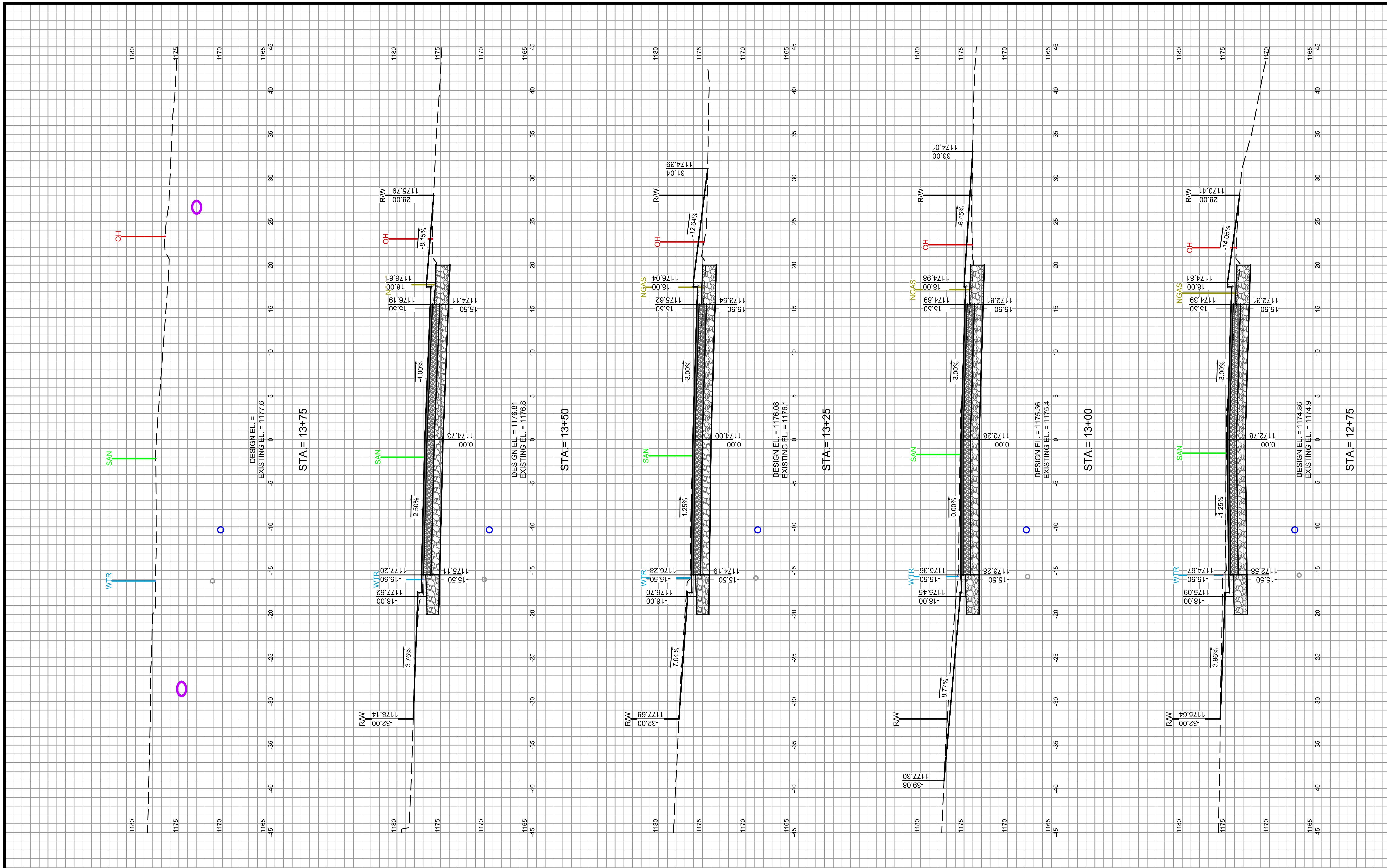
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS11



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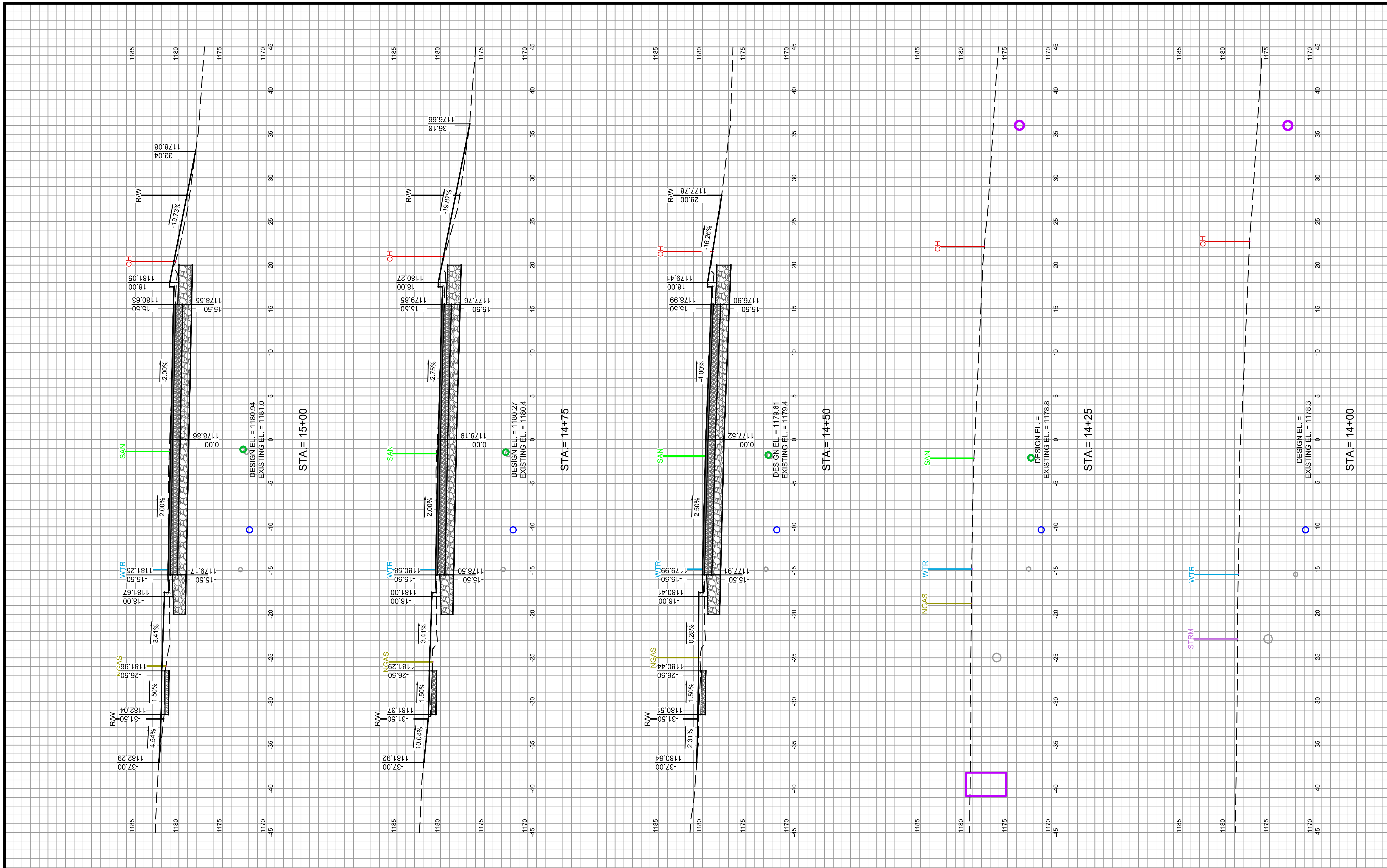
SHEET CS12



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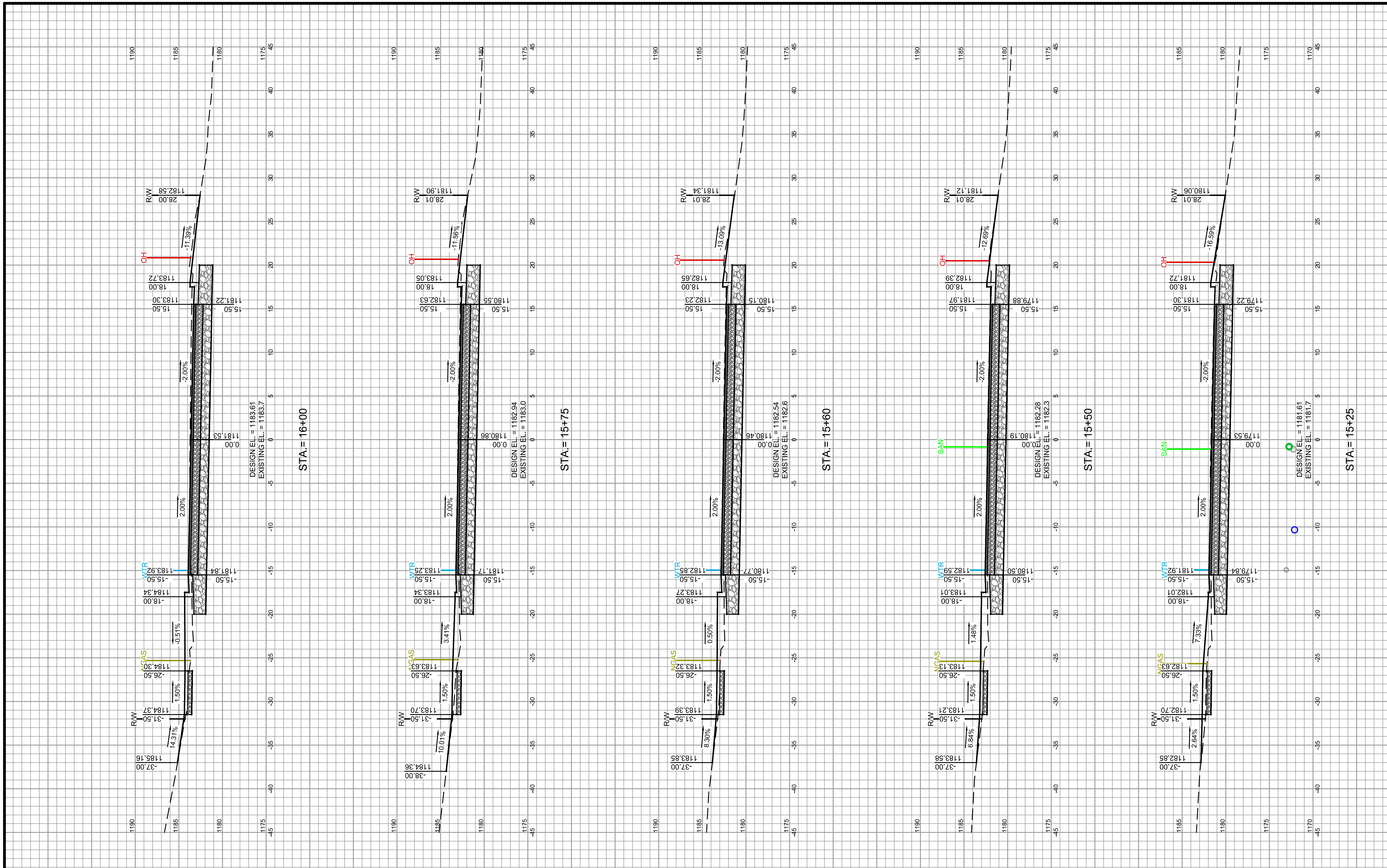
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS13



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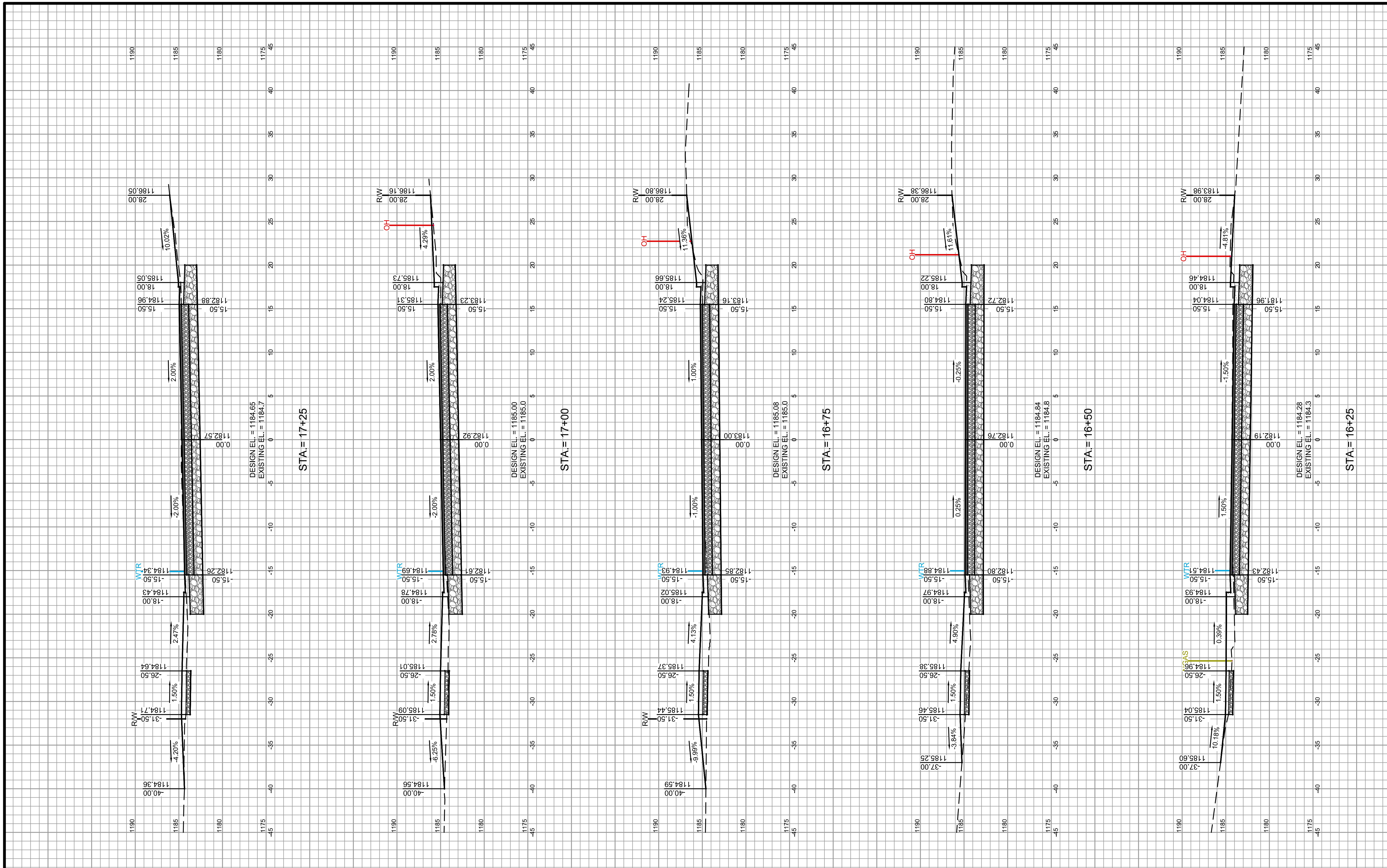
PROJECT A - MILLER STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS14



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PROJECT A - MILLER STREET CROSS SECTIONS

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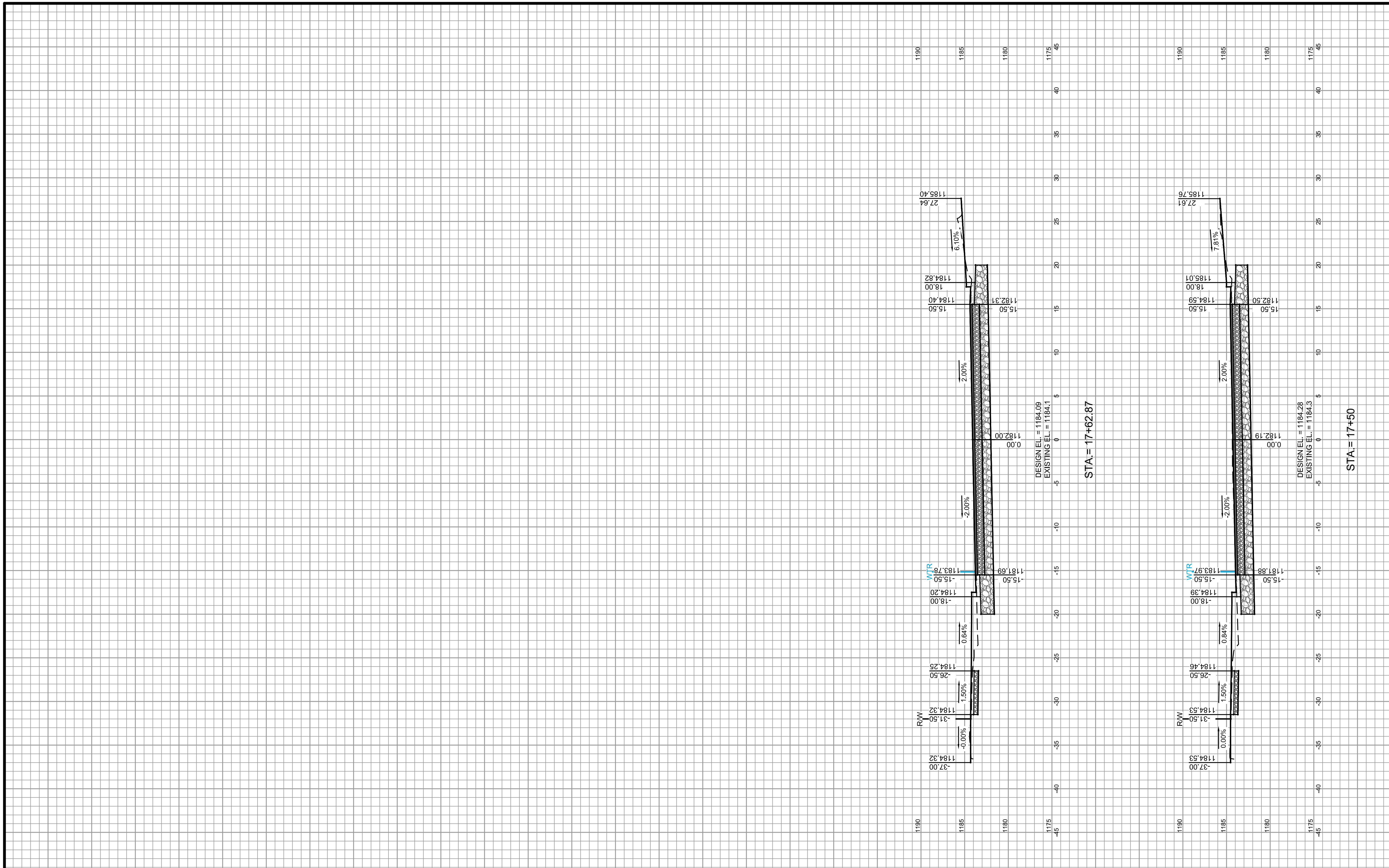
SHEET CS15



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PROJECT A - MILLER STREET CROSS SECTIONS

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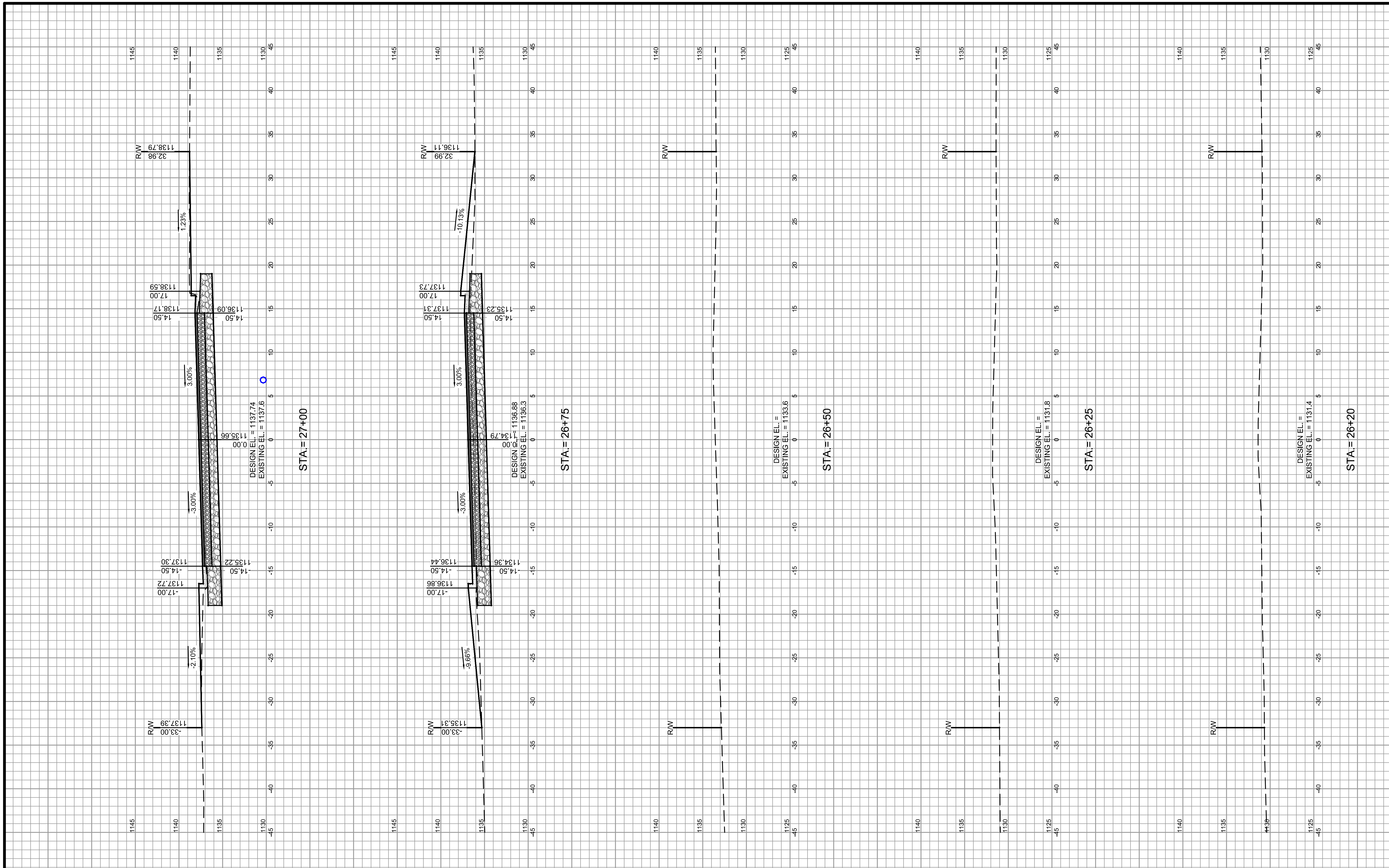
SHEET CS16



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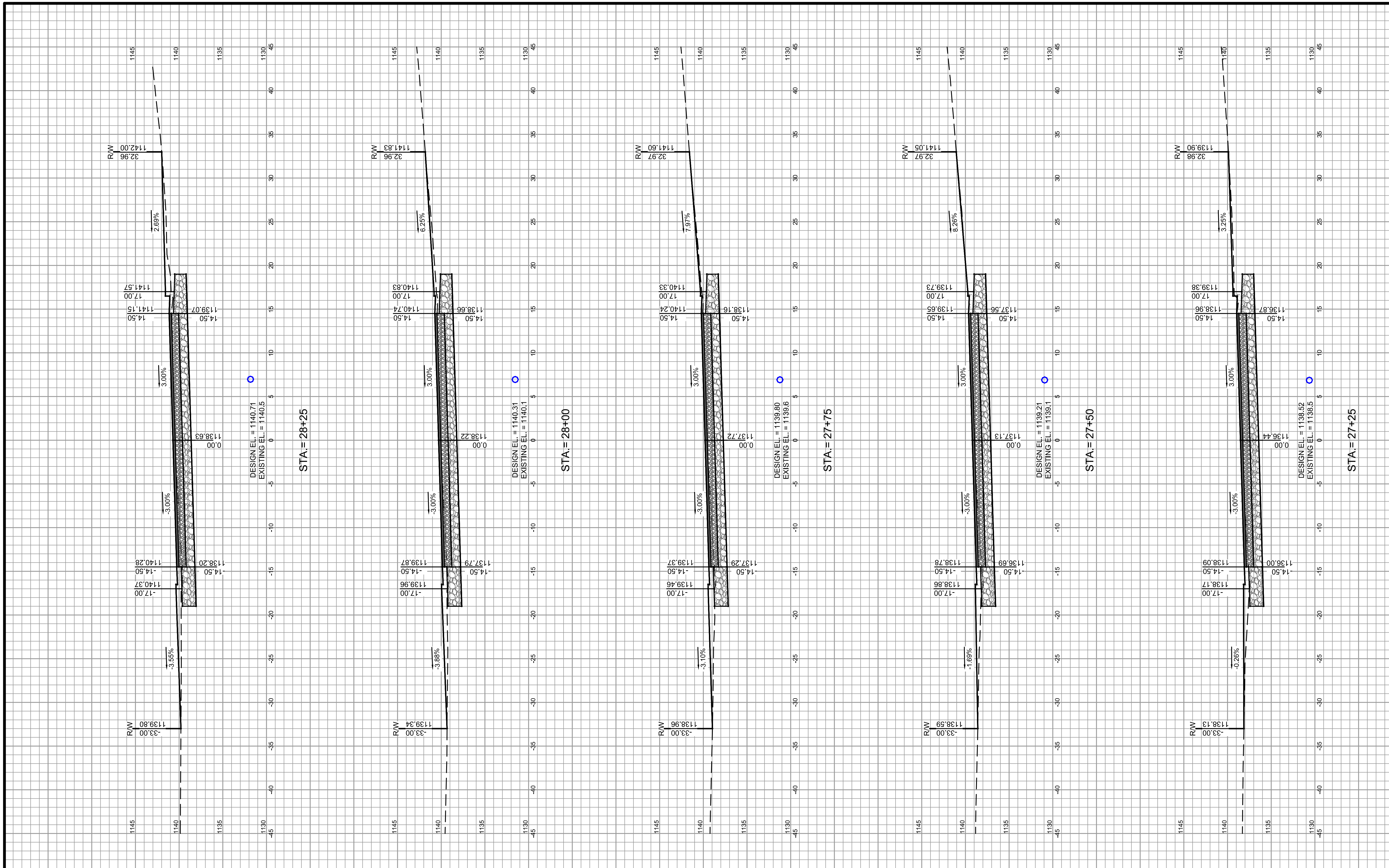
PROJECT NO. 08781007
SHEET CS17



PROJECT DATE: .		NO.	DATE	REVISION	BY
	DRAWN BY: JFK	.	.	.	.
	DESIGNED BY: DWB	.	.	.	.
	CHECKED BY: DWB	.	.	.	.

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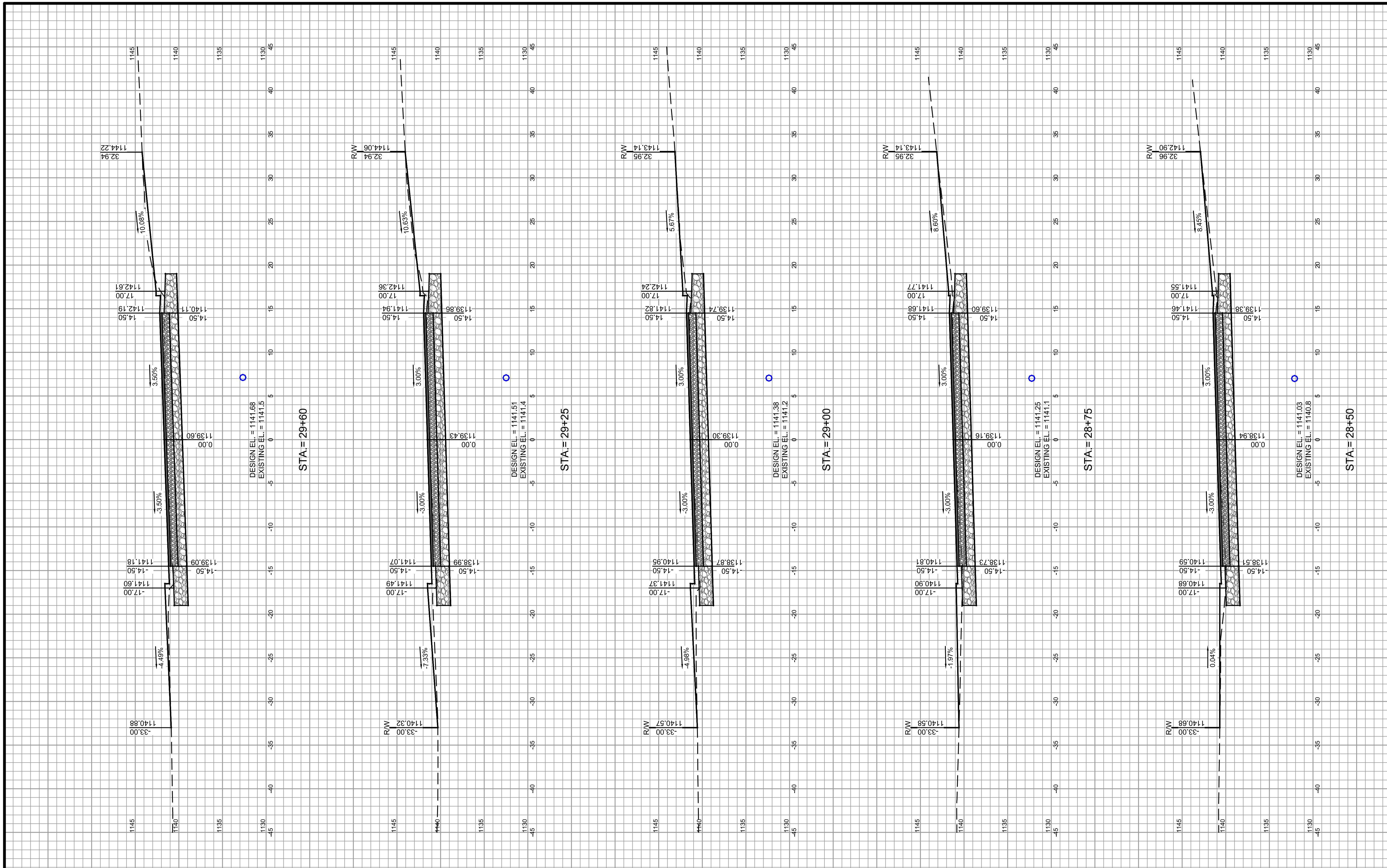
PROJECT A - STAFFORD STREET CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS18



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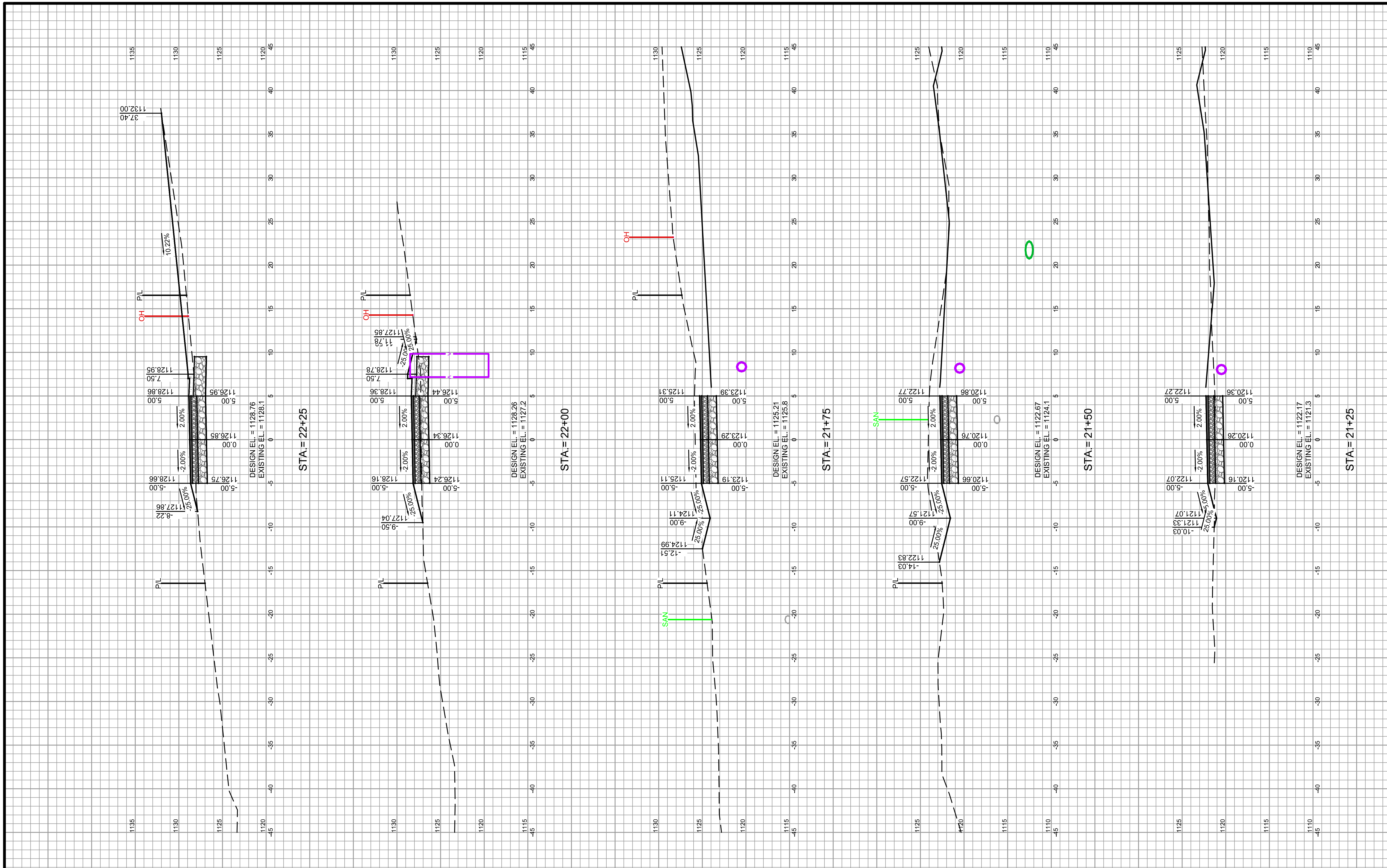
PROJECT A - STAFFORD STREET CROSS SECTIONS

PROJECT NO.
08781007

SHEET
CS19



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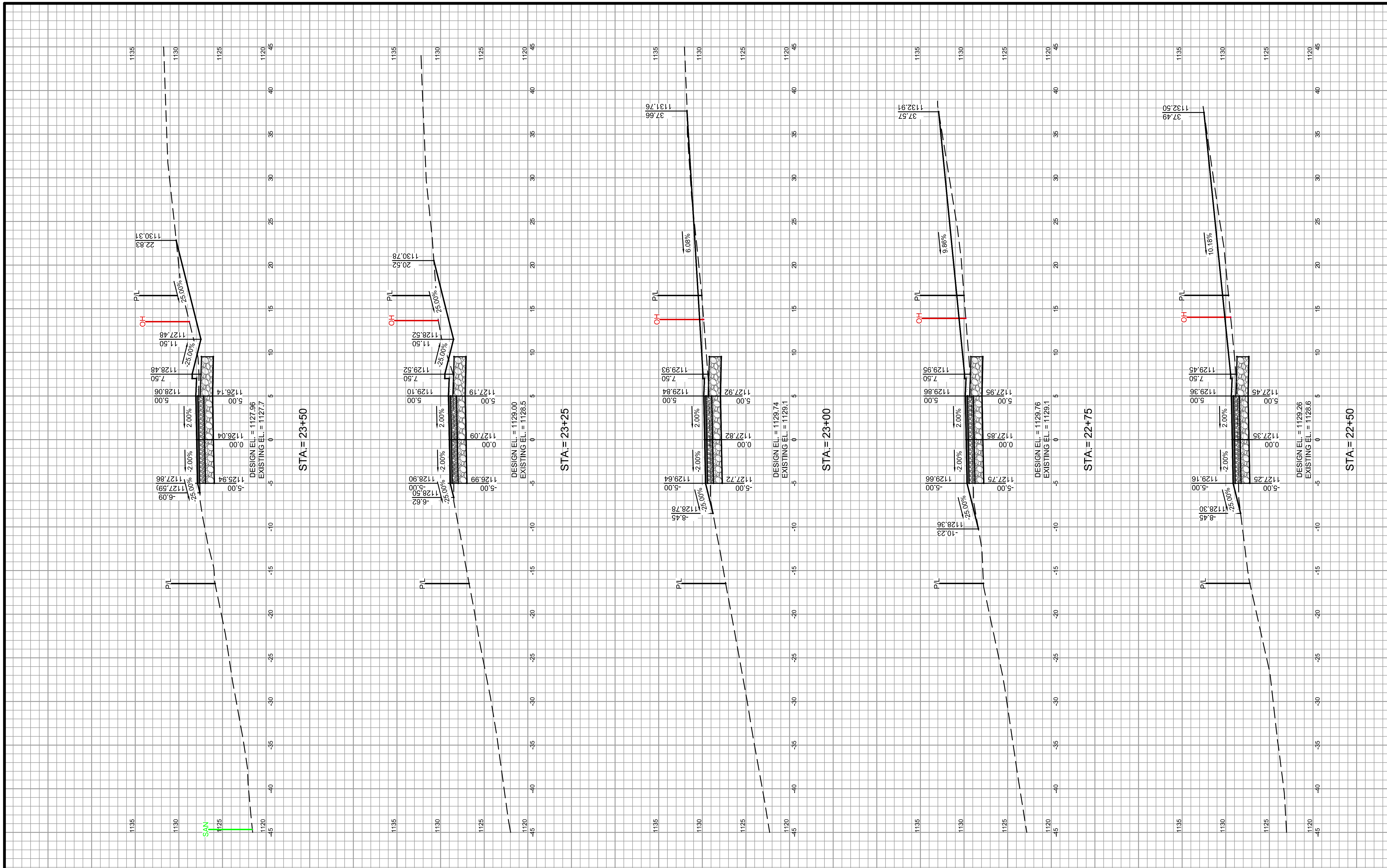
PROJECT B - LIFT STATION ROAD CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS20



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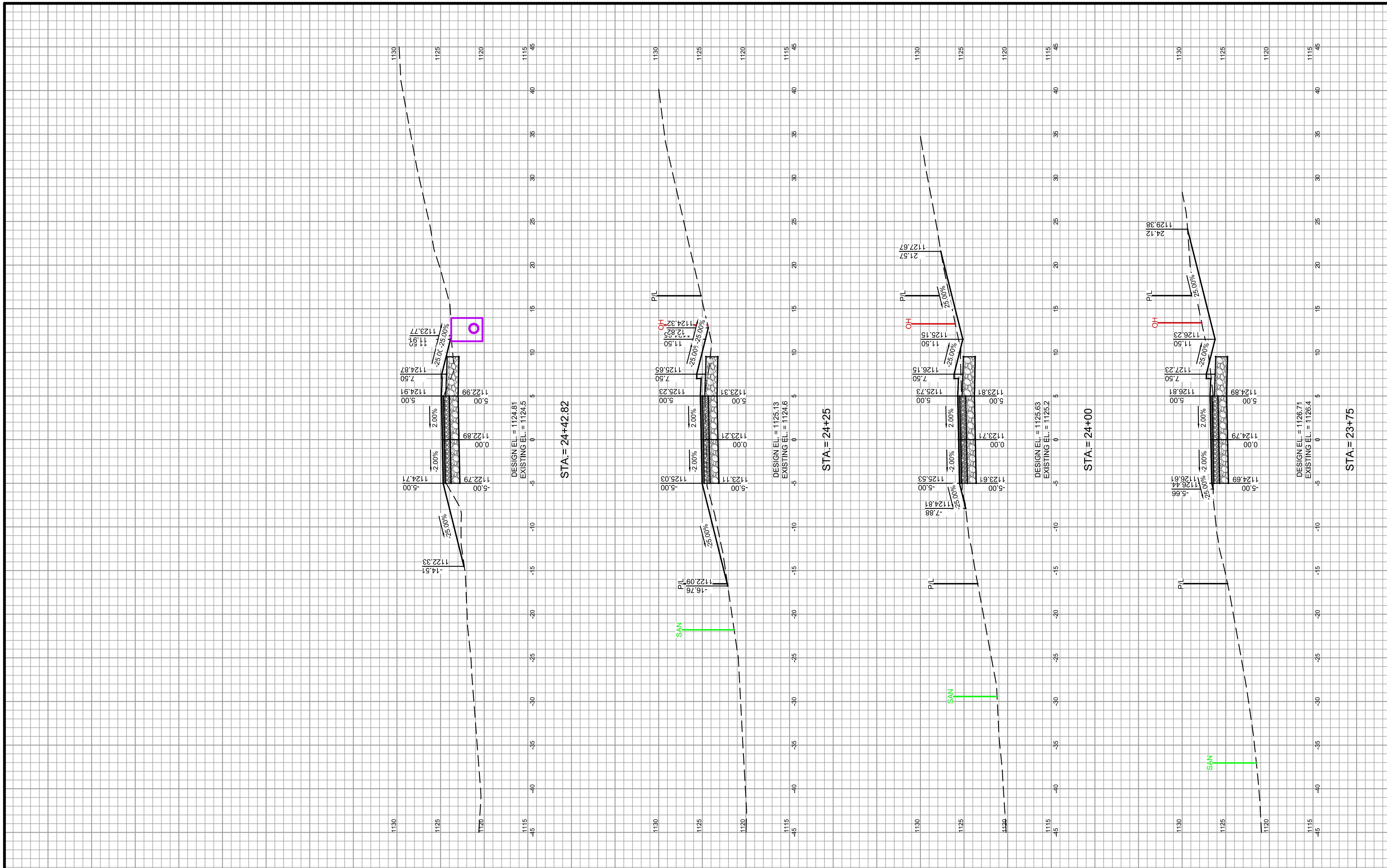
PROJECT B - LIFT STATION ROAD CROSS SECTIONS

PROJECT NO. 08781007

SHEET CS21



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PROJECT DATE: .	DRAWN BY: JFK	.	.	.	.
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PROJECT B - LIFT STATION ROAD CROSS SECTIONS

PROJECT NO.
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SHEET
CS22