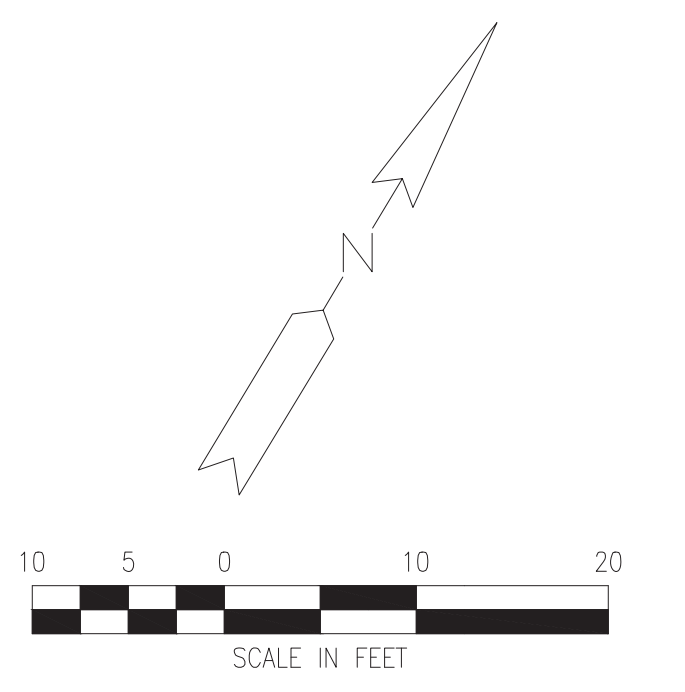


FOR ARCHIMEDES SCREW BLOCK - WEST EXISTING
SEE SHEET L10-1

FOR UNDERPASS - EXISTING &
REMOVALS SEE SHEET L12-1



FLINT RIVER

HARRISON ST

FOR MARKET STALL BLOCK - EXISTING
SEE SHEET L8-1

U OF MICHIGAN-FLINT
FRANCES WILSON THOMPSON LIBRARY

PROJECT MANAGER: JAMES WHEALEY; FIELD PLANNING SUPERVISOR: JAMES WHEALEY; DESIGNER: JAMES WHEALEY; CHECKER: JAMES WHEALEY; PLOTTED: 10/24/2024 8:56 AM BY WHEALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

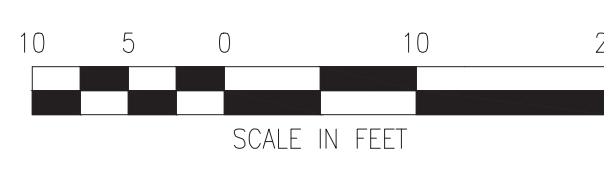
FLINT RIVERFRONT RESTORATION - PHASE 2
U OF M BLOCK - EXISTING

ISSUED FOR: DATE: BY:
JFB 10/23/24 SAL

JOB NO. GPA200301F
SHEET L9-1

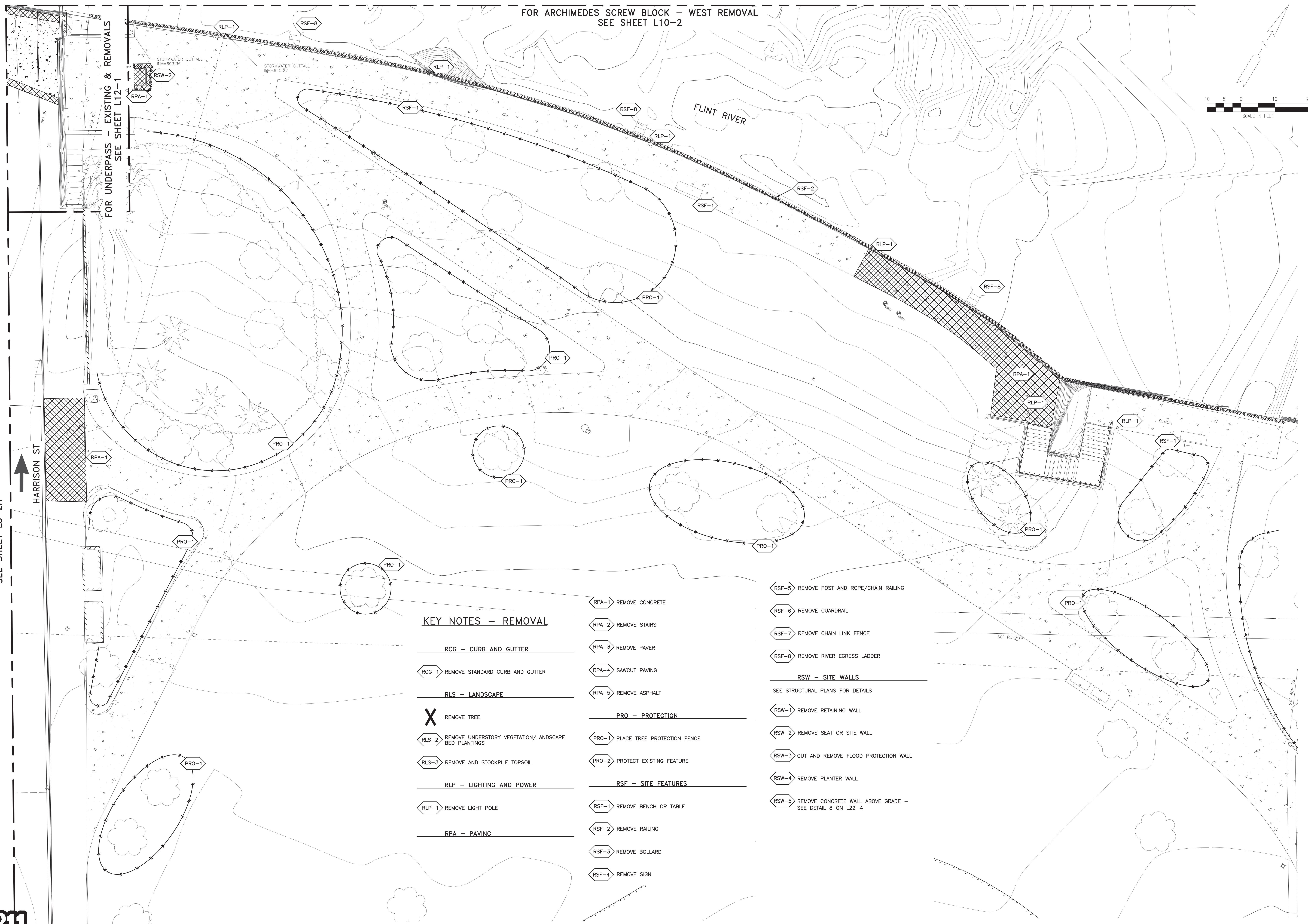
FLINT RIVER RESTORATION

FOR ARCHIMEDES SCREW BLOCK - WEST REMOVAL
SEE SHEET L10-2



FOR MARKET STALL BLOCK - REMOVAL
SEE SHEET L8-2A

FOR UNDERPASS - EXISTING & REMOVALS
SEE SHEET L12-1



KEY NOTES - REMOVAL

RCG - CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS - LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP - LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA - PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO - PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF - SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW - SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

RSW-1 REMOVE RETAINING WALL

RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

RSW-4 REMOVE PLANTER WALL

RSW-5 REMOVE CONCRETE WALL ABOVE GRADE - SEE DETAIL 8 ON L22-4

PROJECT MANAGER: JAMES WEAVER; FIELD SUPERVISOR: JEFFREY WEAVER; DESIGNER: JEFFREY WEAVER; CHECKER: JEFFREY WEAVER; DATE PLOTTED: 10/23/24 8:37 AM BY WHALEY, RUSSELL



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Call before you dig.

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Flint, MI 48502
910.291.2556
www.wadetrim.com

GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
U OF M BLOCK - REMOVAL

ISSUED FOR: FB	DATE: 10/23/24	BY: SAL	JOB NO.: GPA200301F
SHEET			L9-2

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FOR ARCHIMEDES SCREW BLOCK - LAYOUT
SEE SHEET L10-3A



FOR UNDERPASS - LAYOUT, GRADING &
UTILITY SEE SHEET L12-2

FOR MARKET STALL BLOCK - LAYOUT
SEE SHEET L8-3A

HARRISON ST

FLINT RIVER

W11-2 (36")
9 SFT SIGN, TYPE III B
34 FT 2-POST, STEEL, 3 LB

W16-7PL (36" X 18")
9 SFT SIGN, TYPE III B

CONTRACTOR SHALL REPLACE
ANY DAMAGED CONCRETE
CAUSED BY CONSTRUCTION
ACCESS, TYP

KEY NOTES - PROPOSED

- CG - CURB AND GUTTER**
 - CG-1 STANDARD CURB AND GUTTER (11) (L21-1)
 - CG-2 CURB RAMP (9) (L21-7)
- LS - LANDSCAPE**
 - LS-1 PLANTER BED (3) (L23-1)
 - LS-2 BIORETENTION BED (1) (L23-1)
 - LANDSCAPE BOULDER (2) (L23-1)
 - BARRIER BOULDER (9) (L21-3)
 - LS-5 TREE GRATE (14) (L21-7)
 - LS-6 RIVER ACCESS STONE (8) (L21-4)

- PA - PAVING**
 - PA-1 CONCRETE WALK - STANDARD (3) (L21-1)
 - PA-2 CONCRETE WALK 8" - REINFORCED (4) (L21-1)
 - PA-3 CONCRETE WALK - EXPOSED AGGREGATE (6) (L21-7)
 - PA-4 CONCRETE - INTEGRAL COLOR (3) (L21-1)
 - PA-5 ASPHALT ROADWAY (1) (L21-7)
 - PA-6 ASPHALT TRAIL (2) (L21-1)
 - PA-7 PERMEABLE PAVER (8) (L21-1)
 - PA-8 STANDARD PAVER (7) (L21-1)
 - PA-9 STAIRS - STANDARD (1) (L21-7)
 - PA-10 STAIRS - CUSTOM (8) (L21-4)
 - PA-11 STAIRS - PERRONS (1) (L21-3)

- PA-12 MEET EXISTING PAVEMENT (8) (L21-4)
- PA-13 CROSSWALK (8) (L21-2)
- SF - SITE FEATURES**
 - SF-1 BENCH - STANDARD (6) (L21-3)
 - SF-2 SWINGING BENCH (10) (L21-5)
 - SF-3 PICNIC TABLE (9) (L21-3)
 - LITTER BIN (8) (L21-3)
 - SF-5 BIKE RACKS (10) (L21-3)
 - SF-6 PARK SIGN (10) (L21-3)
 - RIVER EGRESS LADDER (8) (L21-3)
 - SF-8 BBQ GRILL AND ASH BIN (2) (L21-6)
 - SF-9 RAILING - TYPE A (1) (L21-3)

- SF-10 RAILING - TYPE B (8) (L21-4)
- SF-11 EXISTING HANDRAIL - CLEANING AND PAINTING (8) (L21-2)
- SF-12 USCG LIFE RING (7) (L21-5)
- SW - SITE WALLS**
SEE STRUCTURAL PLANS FOR DETAILS
 - SW-1 RETAINING WALL
 - SW-2 SEAT WALL
 - SW-3 FLOOD PROTECTION WALL
 - SW-4 RAISED PLANTER WALL
 - SW-5 OUTCROPPING STONE WALL (9) (L21-5)
 - SW-6 CURB WALL

W11-2 (36")
9 SFT SIGN, TYPE III B
34 FT 2-POST, STEEL, 3 LB

AHEAD W16-9P (36" X 18")
9 SFT SIGN, TYPE III B



Know what's below.
Call before you dig.

REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

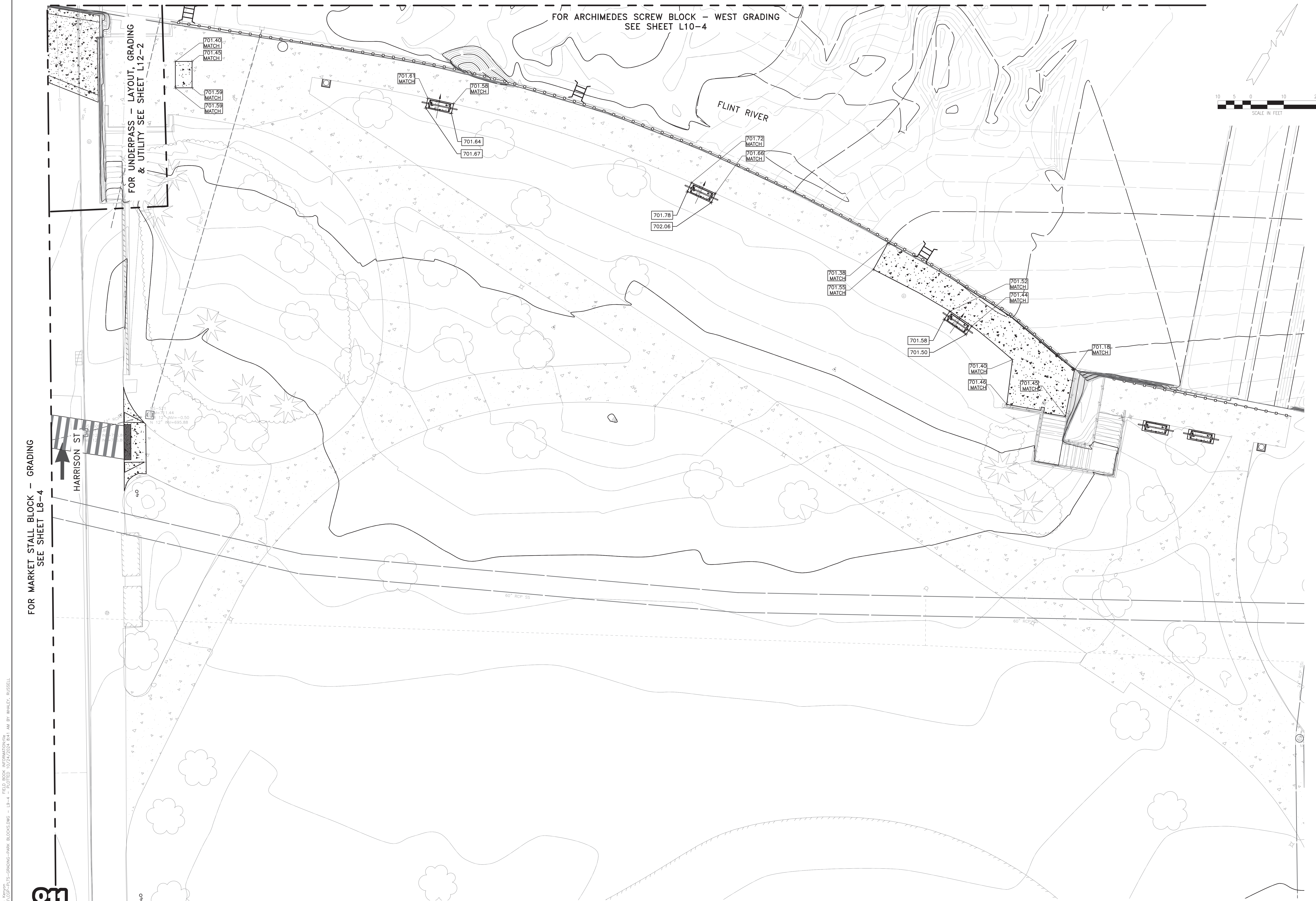
FLINT RIVERFRONT RESTORATION - PHASE 2
U OF M BLOCK - LAYOUT

ISSUED FOR: DATE: BY:
IFB 10/23/24 SAL

JOB NO. GPA200301F
SHEET L9-3

PROJECT MANAGER: JAMES WEAVER; FIELD SUPERVISOR: JAMES WEAVER; DESIGNER: JAMES WEAVER; CHECKER: JAMES WEAVER; DATE PLOTTED: 10/24/2024 8:39 AM BY: WHALEY, RUSSELL

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FOR MARKET STALL BLOCK - GRADING
SEE SHEET L8-4

FOR UNDERPASS - LAYOUT, GRADING
& UTILITY SEE SHEET L12-2

FOR ARCHIMEDES SCREW BLOCK - WEST GRADING
SEE SHEET L10-4



SCALE IN FEET

PROJECT MANAGER: [Name], FIELD SUPERVISOR: [Name], DESIGNER: [Name], CHECKER: [Name], DATE: 10/24/24, BY: WAHLEY, RUSSELL



Know what's below.
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5045 E. STANLEY ROAD
FLINT, MI 48506

GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
U OF M BLOCK - GRADING

ISSUED FOR: [Name]
DATE: 10/23/24
BY: SAL

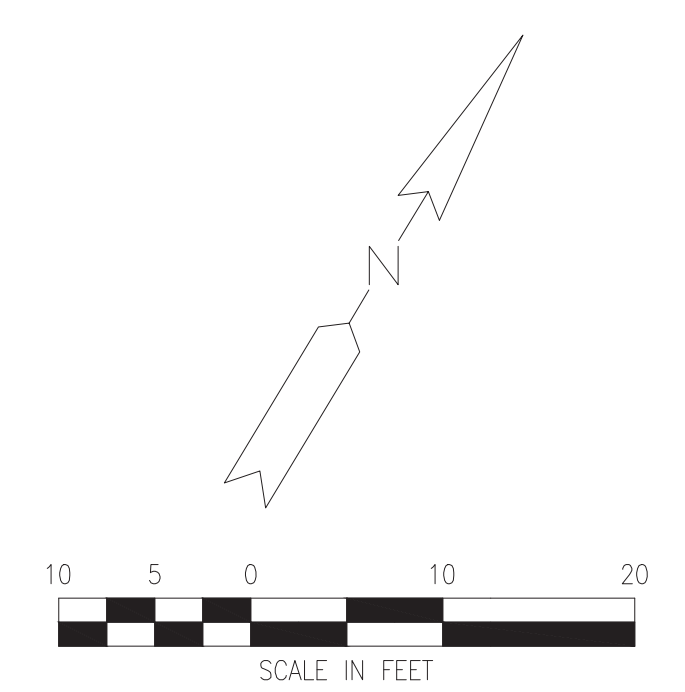
JOB NO. GPA200301F
SHEET L9-4

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FOR ARCHIMEDES SCREW BLOCK - WEST UTILITY
SEE SHEET L10-5

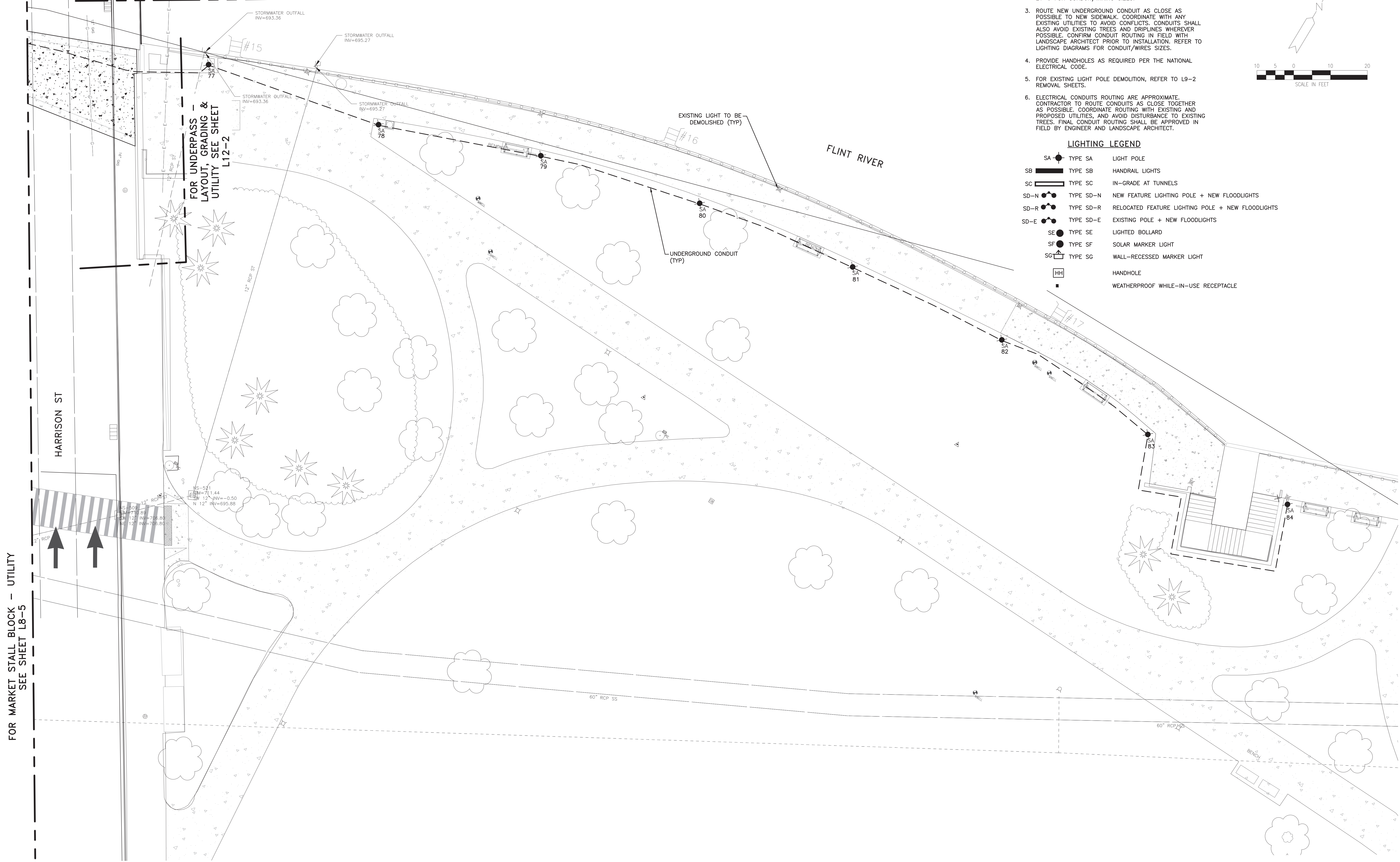
ELECTRICAL NOTES

1. REFER TO SHEETS E1-7 THRU E1-9 FOR LIGHTING SCHEDULE AND DETAILS.
2. REFER TO LIGHTING DIAGRAMS ON SHEETS E1-1 THRU E1-6 FOR CONDUIT/WIRING SIZES.
3. ROUTE NEW UNDERGROUND CONDUIT AS CLOSE AS POSSIBLE TO NEW SIDEWALK. COORDINATE WITH ANY EXISTING UTILITIES TO AVOID CONFLICTS. CONDUITS SHALL ALSO AVOID EXISTING TREES AND DRIPLINES WHEREVER POSSIBLE. CONFIRM CONDUIT ROUTING IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. REFER TO LIGHTING DIAGRAMS FOR CONDUIT/WIRES SIZES.
4. PROVIDE HANDHOLES AS REQUIRED PER THE NATIONAL ELECTRICAL CODE.
5. FOR EXISTING LIGHT POLE DEMOLITION, REFER TO L9-2 REMOVAL SHEETS.
6. ELECTRICAL CONDUITS ROUTING ARE APPROXIMATE. CONTRACTOR TO ROUTE CONDUITS AS CLOSE TOGETHER AS POSSIBLE. COORDINATE ROUTING WITH EXISTING AND PROPOSED UTILITIES, AND AVOID DISTURBANCE TO EXISTING TREES. FINAL CONDUIT ROUTING SHALL BE APPROVED IN FIELD BY ENGINEER AND LANDSCAPE ARCHITECT.



LIGHTING LEGEND

- SA ● TYPE SA LIGHT POLE
- SB ■ TYPE SB HANDRAIL LIGHTS
- SC ■ TYPE SC IN-GRADE AT TUNNELS
- SD-N ● TYPE SD-N NEW FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-R ● TYPE SD-R RELOCATED FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-E ● TYPE SD-E EXISTING POLE + NEW FLOODLIGHTS
- SE ● TYPE SE LIGHTED BOLLARD
- SF ● TYPE SF SOLAR MARKER LIGHT
- SG □ TYPE SG WALL-RECESSED MARKER LIGHT
- HH □ HANDHOLE
- WEATHERPROOF WHILE-IN-USE RECEPTACLE



FOR MARKET STALL BLOCK - UTILITY
SEE SHEET L8-5

FOR UNDERPASS -
LAYOUT, GRADING &
UTILITY SEE SHEET
L12-2

PROJECT MANAGER: [Name], FIELD: [Name], DESIGNER: [Name], CHECKER: [Name], DATE: 10/23/24



REV#	DATE	DESCRIPTION	BY



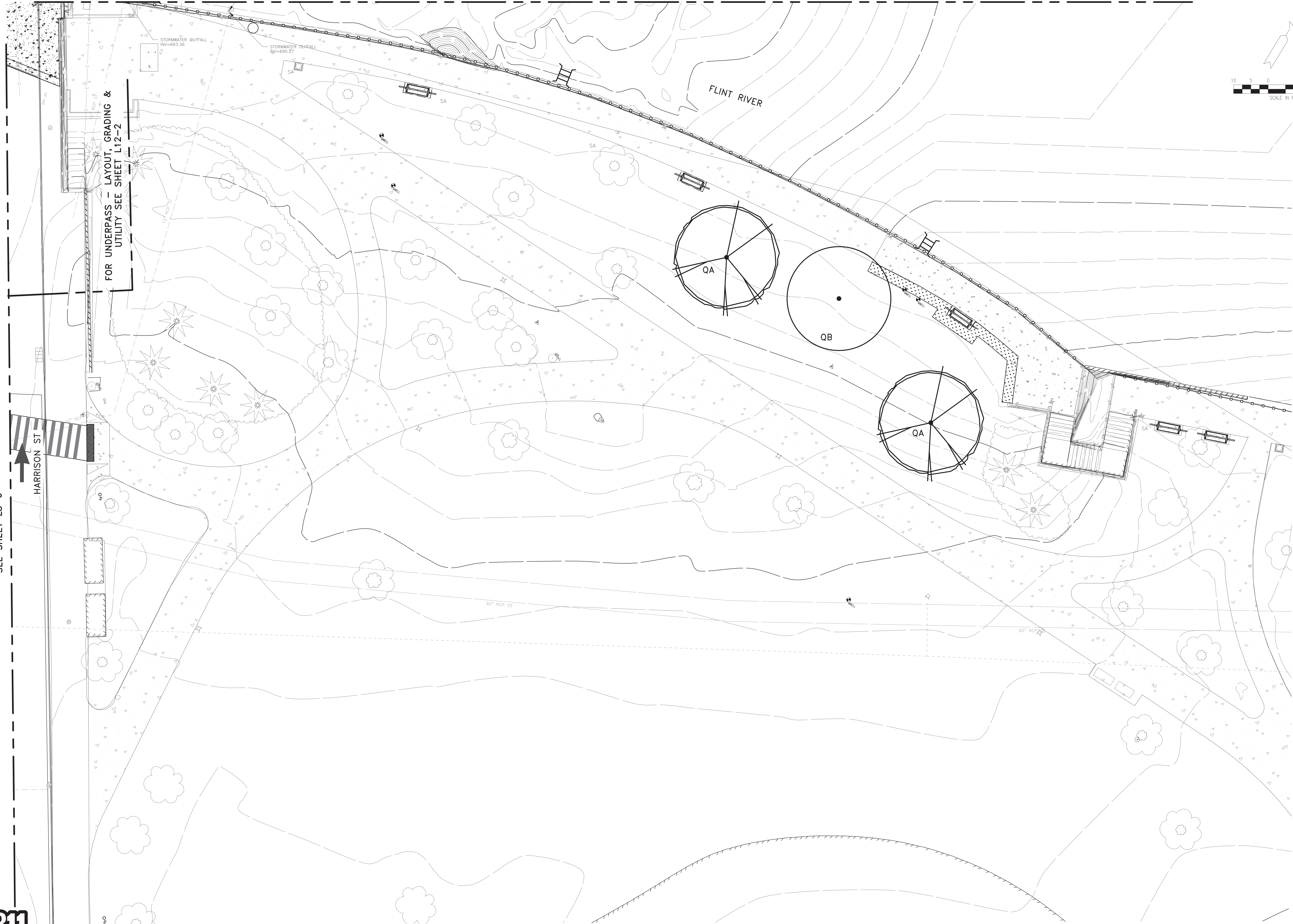
GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
U OF M BLOCK - UTILITY

ISSUED FOR: [Name]	DATE: 10/23/24	BY: SAL	JOB NO. GPA200301F
SHEET			L9-5

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FOR ARCHIMEDES SCREW BLOCK - WEST LANDSCAPE
SEE SHEET L10-6



FOR MARKET STALL BLOCK - LANDSCAPE
SEE SHEET L8-6

FOR UNDERPASS - LAYOUT, GRADING &
UTILITY SEE SHEET L12-2

HARRISON ST

GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
U OF M BLOCK - LANDSCAPE

ISSUED FOR: DATE: BY: JOB NO:
IFB 10/23/24 SAL GPA200301F

SHEET
L9-6



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FLINT RIVER RESTORATION

PROJECT MANAGER: JAMES WEAVER, FIELD ENGINEER: JAMES WEAVER, DESIGNER: JAMES WEAVER, CHECKER: JAMES WEAVER, PLOTTED: 10/24/2024 8:42 AM BY: WHALEY, RUSSELL

PROJECT MANAGER: JAMES WHEALEY
CADD WORKSHEET: 10/23/24
FILE: 811-1 - PLOTTED: 10/24/2024 8:43 AM BY: WHEALEY, RUSSELL



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5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - WEST EXISTING

ISSUED FOR: DATE: BY:
IFB 10/23/24 SAL

JOB NO. GPA200301F
SHEET

L10-1

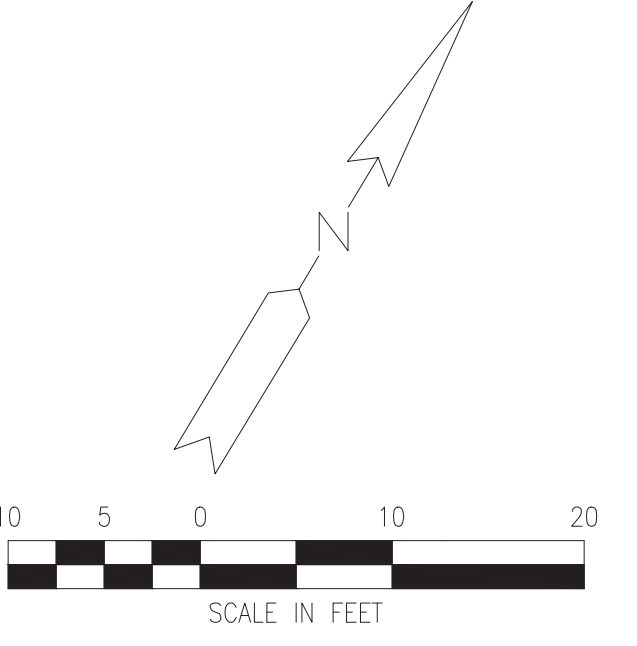
FOR WATER WALL BLOCK - EXISTING
SEE SHEET L7-1



FOR U OF M BLOCK - EXISTING
SEE SHEET L9-1

MATCHLINE SEE SHEET L11-1

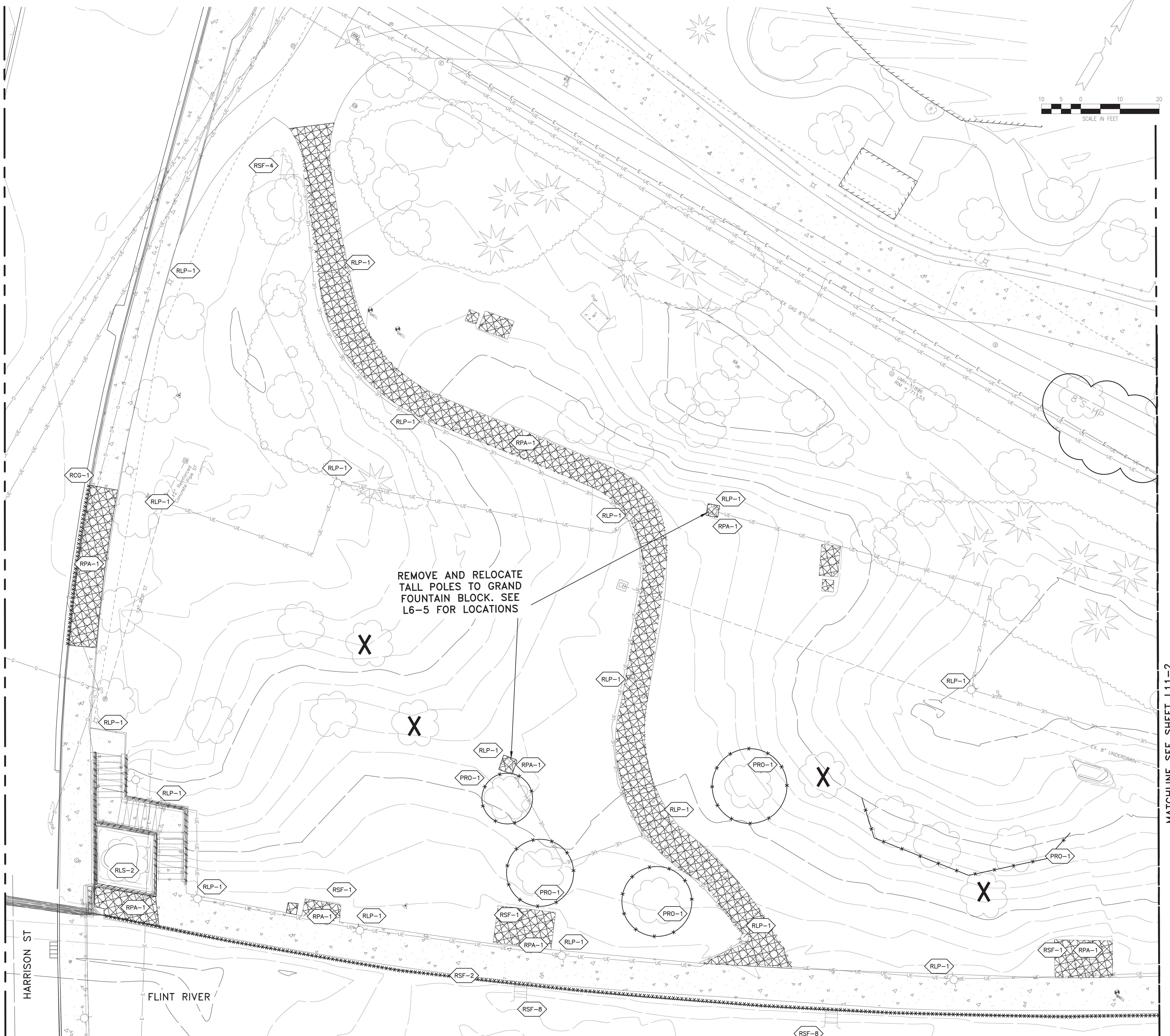
FLINT RIVER RESTORATION



KEY NOTES – REMOVAL

- RCG – CURB AND GUTTER**
- RCG-1 REMOVE STANDARD CURB AND GUTTER
- RLS – LANDSCAPE**
- X REMOVE TREE
- RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS
- RLS-3 REMOVE AND STOCKPILE TOPSOIL
- RLP – LIGHTING AND POWER**
- RLP-1 REMOVE LIGHT POLE
- RPA – PAVING**
- RPA-1 REMOVE CONCRETE
- RPA-2 REMOVE STAIRS
- RPA-3 REMOVE PAVER
- RPA-4 SAWCUT PAVING
- RPA-5 REMOVE ASPHALT
- PRO – PROTECTION**
- PRO-1 PLACE TREE PROTECTION FENCE
- PRO-2 PROTECT EXISTING FEATURE
- RSF – SITE FEATURES**
- RSF-1 REMOVE BENCH OR TABLE
- RSF-2 REMOVE RAILING
- RSF-3 REMOVE BOLLARD
- RSF-4 REMOVE SIGN
- RSF-5 REMOVE POST AND ROPE/CHAIN RAILING
- RSF-6 REMOVE GUARDRAIL
- RSF-7 REMOVE CHAIN LINK FENCE
- RSF-8 REMOVE RIVER EGRESS LADDER
- RSW – SITE WALLS**
- SEE STRUCTURAL PLANS FOR DETAILS
- RSW-1 REMOVE RETAINING WALL
- RSW-2 REMOVE SEAT OR SITE WALL
- RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL
- RSW-4 REMOVE PLANTER WALL
- RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 8 ON L22-4

FOR WATER WALL BLOCK – REMOVAL
SEE SHEET L7-2A



MATCHLINE SEE SHEET L11-2

FOR U OF M BLOCK – REMOVAL
SEE SHEET L9-2

PROJECT MANAGER: JAMES WEAVER; FIELD PLANS: JAMES WEAVER; DESIGNER: JAMES WEAVER; CHECKER: JAMES WEAVER; PLOTTED: 10/24/2024 8:45 AM BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
ARCHIMEDES SCREW BLOCK – WEST REMOVAL

ISSUED FOR: DATE: BY:
JFB 10/23/24 SAL

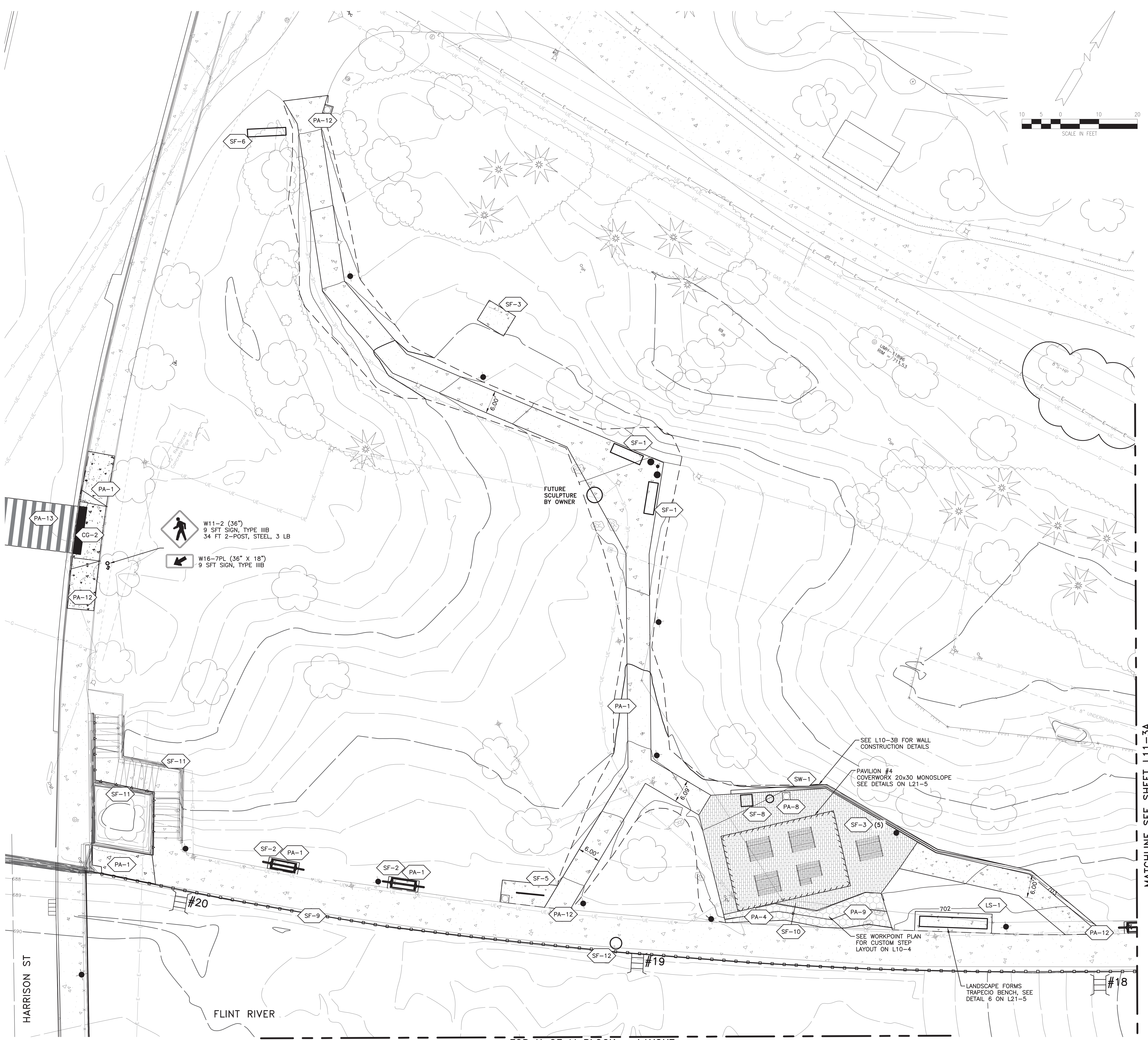
JOB NO.: GPA200301F
SHEET: L10-2

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KEY NOTES – PROPOSED

- CG – CURB AND GUTTER**
 - CG-1 STANDARD CURB AND GUTTER (8/21-4)
 - CG-2 CURB RAMP (9/21-5)
- LS – LANDSCAPE**
 - LS-1 PLANTER BED (3/23-1)
 - LS-2 BIORETENTION BED (1/23-1)
 - LANDSCAPE BOULDER (2/23-1)
 - BARRIER BOULDER (9/21-3)
 - LS-5 TREE GRATE (14/21-1)
 - LS-6 RIVER ACCESS STONE (3/21-1)
- PA – PAVING**
 - PA-1 CONCRETE WALK – STANDARD (4/21-1)
 - PA-2 CONCRETE WALK 8"– REINFORCED (6/21-1)
 - PA-3 CONCRETE WALK – EXPOSED AGGREGATE (3/21-1)
 - PA-4 CONCRETE – INTEGRAL COLOR (1/21-1)
 - PA-5 ASPHALT ROADWAY (2/21-1)
 - PA-6 ASPHALT TRAIL (8/21-1)
 - PA-7 PERMEABLE PAVER (7/21-1)
 - PA-8 STANDARD PAVER (1/21-7)
 - PA-9 STAIRS – STANDARD (8/21-7)
 - PA-10 STAIRS – CUSTOM (8/21-4)
 - PA-11 STAIRS – PERRONS (8/21-4)
 - PA-12 MEET EXISTING PAVEMENT (8/21-2)
 - PA-13 CROSSWALK (8/21-2)
- SF – SITE FEATURES**
 - SF-1 BENCH – STANDARD (6/21-3)
 - SF-2 SWINGING BENCH (10/21-5)
 - SF-3 PICNIC TABLE (9/21-3)
 - LITTER BIN (8/21-3)
 - SF-5 BIKE RACKS (10/21-3)
 - SF-6 PARK SIGN (8/21-3)
 - RIVER EGRESS LADDER (2/21-3)
 - SF-8 BBQ GRILL AND ASH BIN (2/21-6)
 - SF-9 RAILING – TYPE A (1/21-3)
- RAILING – TYPE B** (8/21-4)
- EXISTING HANDRAIL – CLEANING AND PAINTING** (7/21-5)
- USCG LIFE RING** (9/21-5)
- SW – SITE WALLS**
SEE STRUCTURAL PLANS FOR DETAILS
 - SW-1 RETAINING WALL
 - SW-2 SEAT WALL
 - SW-3 FLOOD PROTECTION WALL
 - SW-4 RAISED PLANTER WALL
 - SW-5 OUTCROPPING STONE WALL
 - SW-6 CURB WALL

FOR WATER WALL BLOCK – LAYOUT
SEE SHEET L7-3A



HARRISON ST

FLINT RIVER

FOR U OF M BLOCK – LAYOUT
SEE SHEET L9-3

MATCHLINE SEE SHEET L11-3A

PROJECT MANAGER: JAMES WEAVER; DESIGNER: JAMES WEAVER; DATE: 10/23/24; SCALE: 1/8"=1'-0"; SHEET: L10-3A; DRAWING: L10-3A; FILE: 811-2024-001; 8:46 AM BY WAHLEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



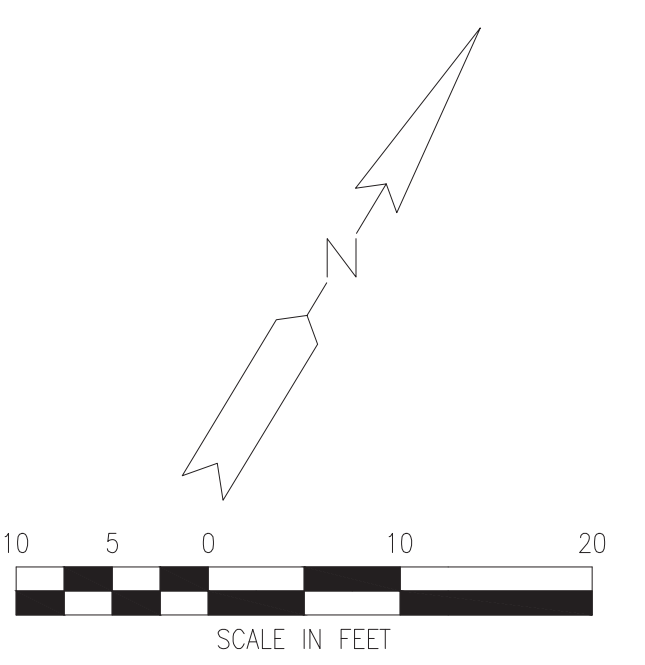
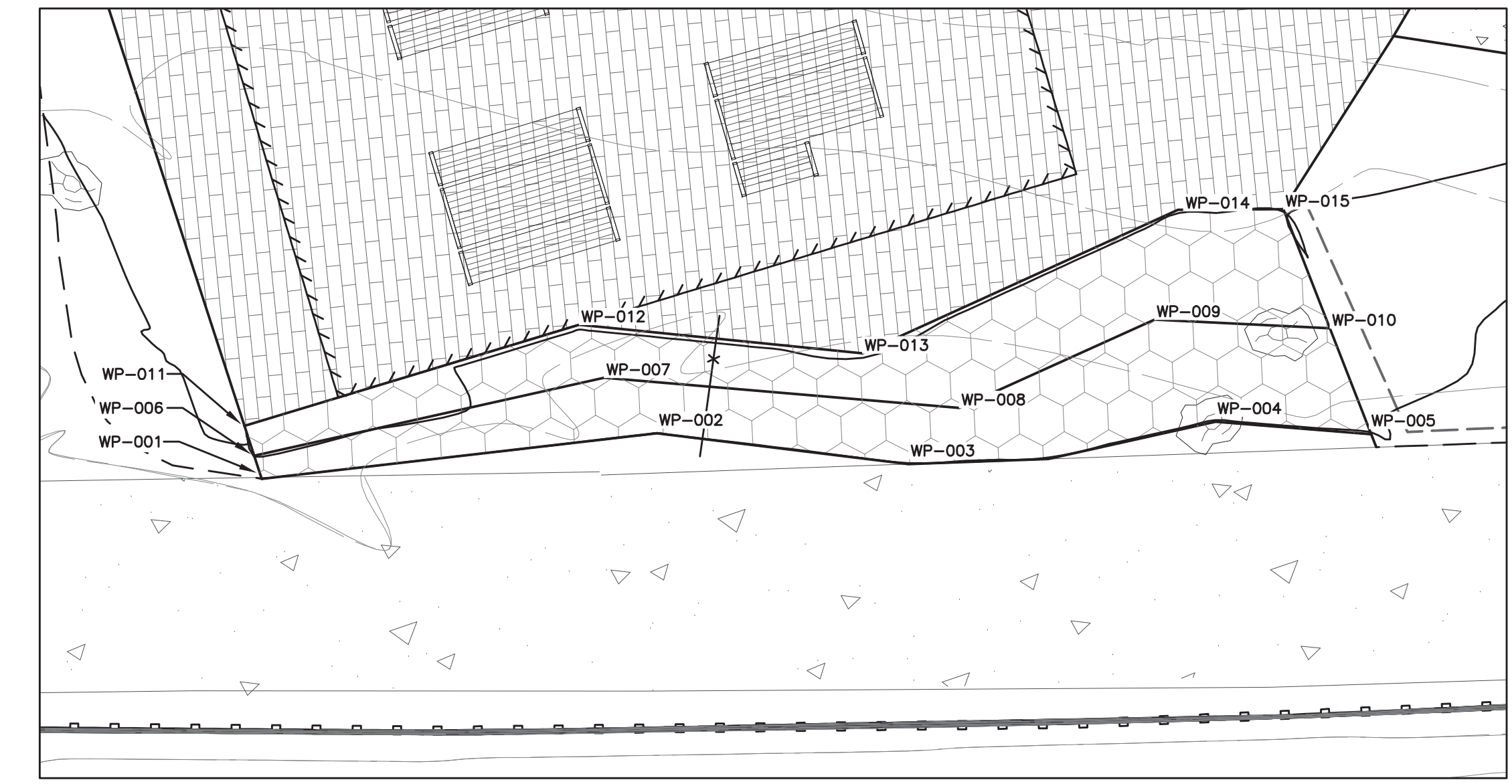
GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
ARCHIMEDES SCREW BLOCK – WEST LAYOUT

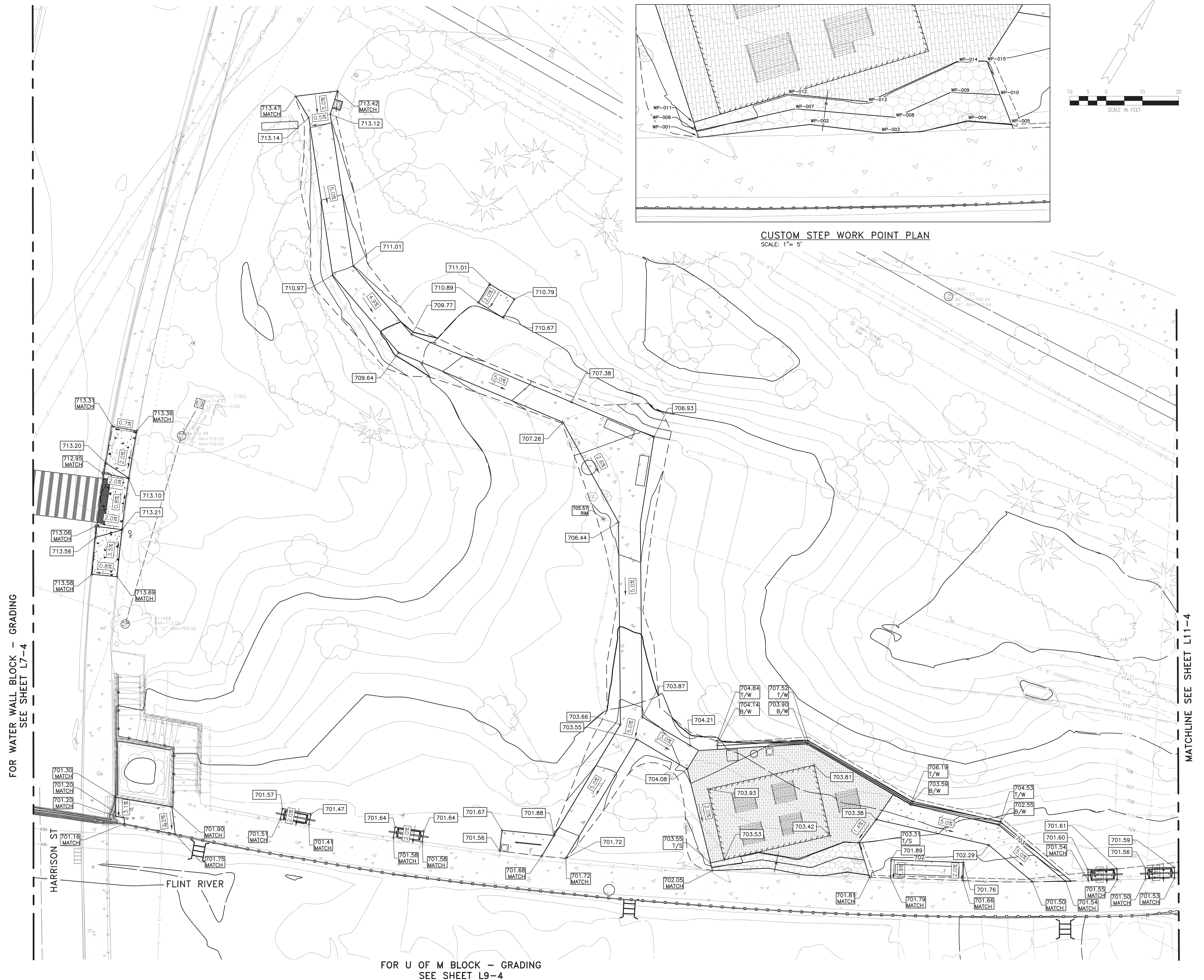
ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO: GPA200801F
SHEET			L10-3A

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WORK POINTS TABLE			
POINT ID	ELEVATION	NORTHING	EASTING
WP-001	702.55	554573.96	13303963.23
WP-002	702.46	554582.62	13303976.13
WP-003	702.41	554586.05	13303985.39
WP-004	702.34	554592.97	13303995.23
WP-005	702.31	554595.30	13304000.78
WP-006	703.05	554574.48	13303962.70
WP-007	702.97	554583.42	13303973.42
WP-008	702.89	554588.72	13303986.23
WP-009	702.85	554595.25	13303991.41
WP-010	702.81	554598.08	13303997.62
WP-011	703.55	554575.34	13303961.83
WP-012	703.47	554584.82	13303971.60
WP-013	703.41	554588.87	13303981.91
WP-014	703.33	554599.47	13303990.26
WP-015	703.31	554601.36	13303993.89



CUSTOM STEP WORK POINT PLAN
SCALE: 1" = 5'



FOR WATER WALL BLOCK - GRADING
SEE SHEET L7-4

MATCHLINE SEE SHEET L11-4

FOR U OF M BLOCK - GRADING
SEE SHEET L9-4

PROJECT MANAGER: JAMES WEAVER; DATE PLOTTED: 10/24/2024 8:48 AM BY WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - WEST GRADING

ISSUED FOR: DATE: BY: JOB NO.
FB 10/23/24 SAL GPA200301F
SHEET
L10-4

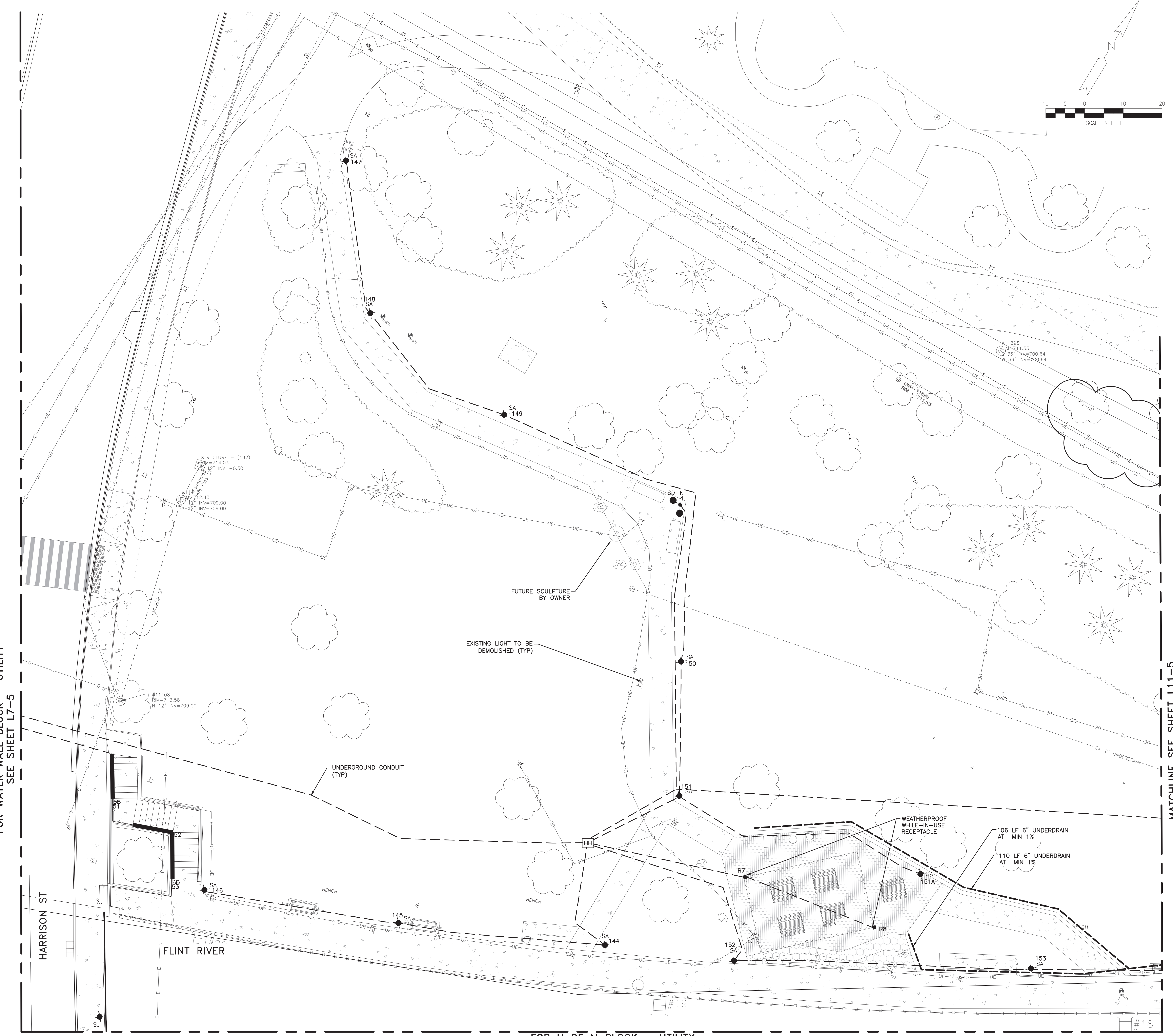
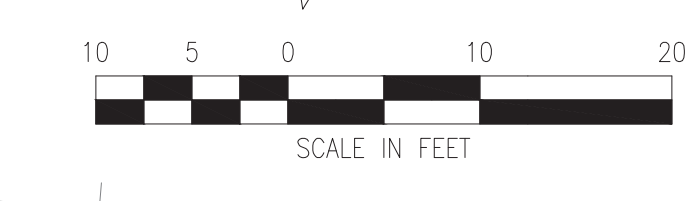
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ELECTRICAL NOTES

- REFER TO SHEETS E1-7 THRU E1-9 FOR LIGHTING SCHEDULE AND DETAILS.
- REFER TO LIGHTING DIAGRAMS ON SHEETS E1-1 THRU E1-6 FOR CONDUIT/WIRING SIZES.
- ROUTE NEW UNDERGROUND CONDUIT AS CLOSE AS POSSIBLE TO NEW SIDEWALK. COORDINATE WITH ANY EXISTING UTILITIES TO AVOID CONFLICTS. CONDUITS SHALL ALSO AVOID EXISTING TREES AND DRIPLINES WHEREVER POSSIBLE. CONFIRM CONDUIT ROUTING IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. REFER TO LIGHTING DIAGRAMS FOR CONDUIT/WIRES SIZES.
- PROVIDE HANDHOLES AS REQUIRED PER THE NATIONAL ELECTRICAL CODE.
- FOR EXISTING LIGHT POLE DEMOLITION, REFER TO L10-2 REMOVAL SHEETS.
- ELECTRICAL CONDUITS ROUTING ARE APPROXIMATE. CONTRACTOR TO ROUTE CONDUITS AS CLOSE TOGETHER AS POSSIBLE. COORDINATE ROUTING WITH EXISTING AND PROPOSED UTILITIES, AND AVOID DISTURBANCE TO EXISTING TREES. FINAL CONDUIT ROUTING SHALL BE APPROVED IN FIELD BY ENGINEER AND LANDSCAPE ARCHITECT.

LIGHTING LEGEND

- SA ● TYPE SA LIGHT POLE
- SB ■ TYPE SB HANDRAIL LIGHTS
- SC □ TYPE SC IN-GRADE AT TUNNELS
- SD-N ● TYPE SD-N NEW FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-R ● TYPE SD-R RELOCATED FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-E ● TYPE SD-E EXISTING POLE + NEW FLOODLIGHTS
- SE ● TYPE SE LIGHTED BOLLARD
- SF ● TYPE SF SOLAR MARKER LIGHT
- SG □ TYPE SG WALL-RECESSED MARKER LIGHT
- HH □ HANDHOLE
- WEATHERPROOF WHILE-IN-USE RECEPTACLE



PROJECT MANAGER: JAMES WEAVER, FIELD, PEAK INFORMATION SERVICES, 2500 W. BARKER RD., SUITE 100, FLINT, MI 48906, 810.231.2556, 10/24/2024, 8:49 AM, BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY

WADE TRIM
 225 S. Saginaw Street, Suite 201
 Flint, MI 48906
 810.231.2556
 www.wadetrim.com

GENESSEE COUNTY PARKS & REC
 5045 E. STANLEY ROAD
 FLINT, MI 48906

FLINT RIVERFRONT RESTORATION - PHASE 2
 ARCHIMEDES SCREW BLOCK - WEST UTILITY

ISSUED FOR: FB	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SHEET			L10-5

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PROJECT MANAGER: JAMES WHEALEY
C:\P\WORK\210161530\CSF-PLUS-LANDSCAPE-PARK BLOCKS.DWG - L10-6 - PLOTTED: 10/24/2024 8:59 AM BY WHALEY, RUSSELL



Know what's below.
Call before you dig.

REV#	DATE	DESCRIPTION	BY



225 S. Saginaw Street, Suite 201
Flint, MI 48502
910.235.2666
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GENESSEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - WEST LANDSCAPE

ISSUED FOR:	DATE:	BY:
FB	10/23/24	SAL

JOB NO.	GPA200301F
SHEET	L10-6

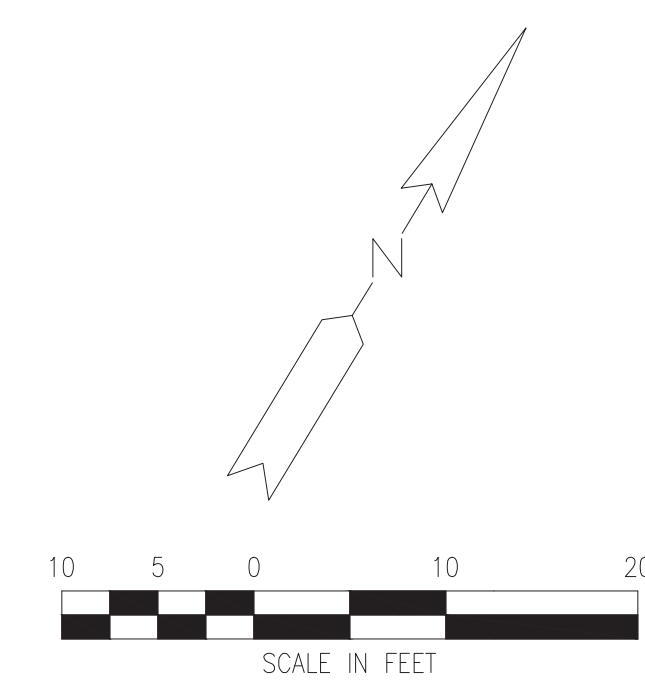
FOR WATER WALL BLOCK - LANDSCAPE
SEE SHEET L7-6



FOR U OF M BLOCK - LANDSCAPE
SEE SHEET L9-6

MATCHLINE SEE SHEET L10-6

FLINT RIVER RESTORATION



MATCHLINE SEE SHEET L10-1

FOR IRON BELLE TRAIL - EXISTING CONDITIONS & REMOVALS - 1
SEE SHEET L113-1

FOR U OF M BLOCK - EXISTING
SEE SHEET L9-1

FLINT RIVER

PROJECT MANAGER: JAMES WHEALEY, P.E. FILED: PARK NETWORKS/PLANS
CITY OF ANN ARBOR: JUDITH WILSON, VISTOR/PLANS PLOTTED: 10/24/2024 8:51 AM BY WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESSEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - EAST EXISTING

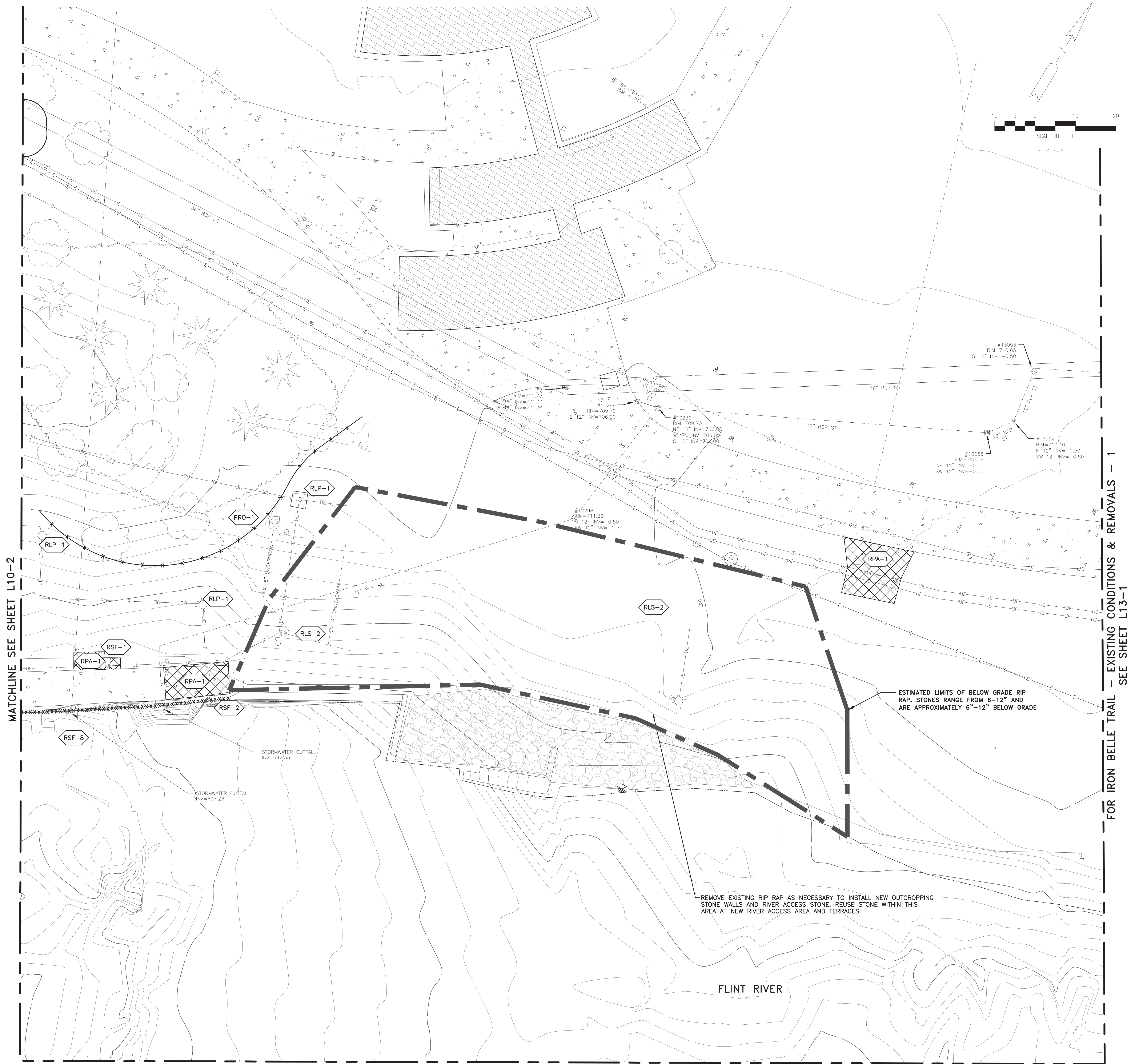
ISSUED FOR:	DATE:	BY:
IFB	10/23/24	SAL

JOB NO.	GPA200301F
SHEET	L11-1

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KEY NOTES - REMOVAL

- RCG - CURB AND GUTTER**
- RCG-1 REMOVE STANDARD CURB AND GUTTER
- RLS - LANDSCAPE**
- X REMOVE TREE
- RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS
- RLS-3 REMOVE AND STOCKPILE TOPSOIL
- RLP - LIGHTING AND POWER**
- RLP-1 REMOVE LIGHT POLE
- RPA - PAVING**
- RPA-1 REMOVE CONCRETE
- RPA-2 REMOVE STAIRS
- RPA-3 REMOVE PAVER
- RPA-4 SAWCUT PAVING
- RPA-5 REMOVE ASPHALT
- PRO - PROTECTION**
- PRO-1 PLACE TREE PROTECTION FENCE
- PRO-2 PROTECT EXISTING FEATURE
- RSF - SITE FEATURES**
- RSF-1 REMOVE BENCH OR TABLE
- RSF-2 REMOVE RAILING
- RSF-3 REMOVE BOLLARD
- RSF-4 REMOVE SIGN
- RSF-5 REMOVE POST AND ROPE/CHAIN RAILING
- RSF-6 REMOVE GUARDRAIL
- RSF-7 REMOVE CHAIN LINK FENCE
- RSF-8 REMOVE RIVER EGRESS LADDER
- RSW - SITE WALLS**
- SEE STRUCTURAL PLANS FOR DETAILS
- RSW-1 REMOVE RETAINING WALL
- RSW-2 REMOVE SEAT OR SITE WALL
- RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL
- RSW-4 REMOVE PLANTER WALL
- RSW-5 REMOVE CONCRETE WALL ABOVE GRADE - SEE DETAIL 8 ON L22-4



PROJECT MANAGER: JAMES WEAVER; DESIGNER: JEFFREY WEAVER; CHECKER: JEFFREY WEAVER; PLOTTED: 10/24/2024 8:52 AM BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - EAST REMOVAL

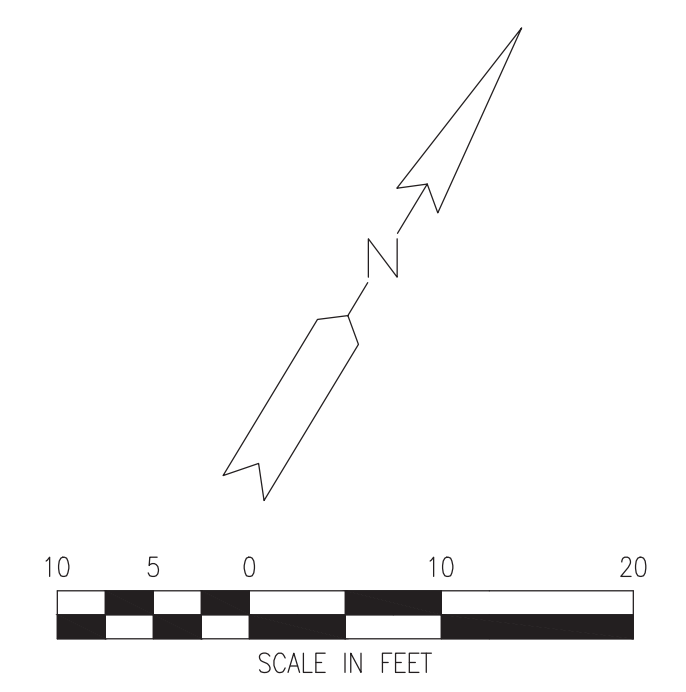
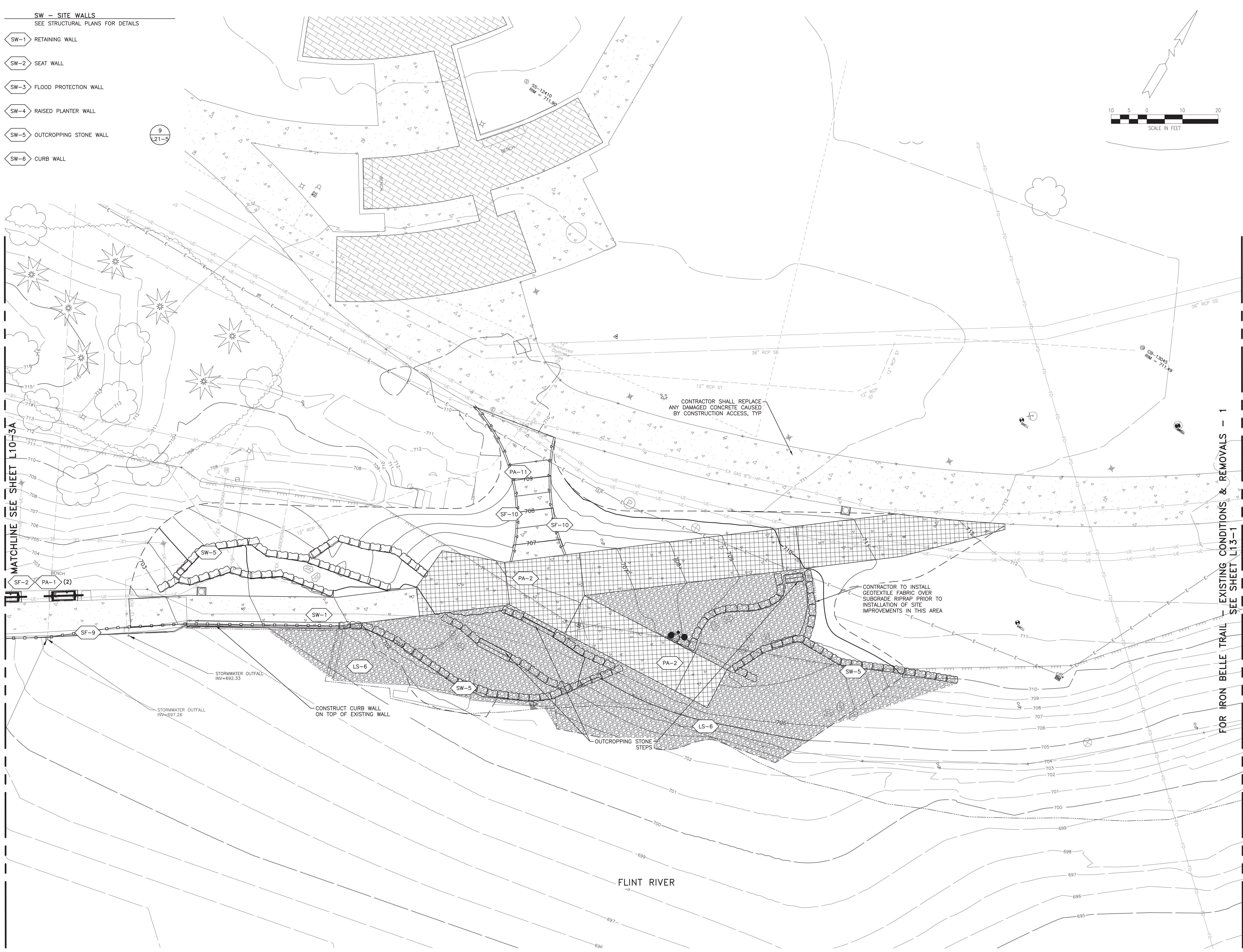
ISSUED FOR: FB	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SHEET			L11-2

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KEY NOTES – PROPOSED

- CG – CURB AND GUTTER**
- CG-1 STANDARD CURB AND GUTTER (11 / 21-1)
- CG-2 CURB RAMP (9 / 21-1)
- LS – LANDSCAPE**
- LS-1 PLANTER BED (3 / 23-1)
- LS-2 BIORETENTION BED (1 / 23-1)
- LANDSCAPE BOULDER (2 / 23-1)
- BARRIER BOULDER (9 / 21-3)
- LS-5 TREE GRATE (14 / 21-1)
- LS-6 RIVER ACCESS STONE (3 / 21-5)
- PA – PAVING**
- PA-1 CONCRETE WALK – STANDARD (4 / 21-1)
- PA-2 CONCRETE WALK 8" – REINFORCED (6 / 21-1)
- PA-3 CONCRETE WALK – EXPOSED AGGREGATE (3 / 21-1)
- PA-4 CONCRETE – INTEGRAL COLOR (1 / 21-1)
- PA-5 ASPHALT ROADWAY (2 / 21-1)
- PA-6 ASPHALT TRAIL (8 / 21-1)
- PA-7 PERMEABLE PAVER (7 / 21-1)
- PA-8 STANDARD PAVER (1 / 21-1)
- PA-9 STAIRS – STANDARD (8 / 21-4)
- PA-10 STAIRS – CUSTOM (8 / 21-4)
- PA-11 STAIRS – PERRONS (2 / 21-6)
- PA-12 MEET EXISTING PAVEMENT (1 / 21-3)
- PA-13 CROSSWALK (7 / 21-5)
- SF – SITE FEATURES**
- SF-1 BENCH – STANDARD (10 / 21-5)
- SF-2 SWINGING BENCH (9 / 21-3)
- SF-3 PICNIC TABLE (8 / 21-3)
- LITTER BIN (10 / 21-3)
- SF-5 BIKE RACKS (8 / 21-3)
- SF-6 PARK SIGN (2 / 21-6)
- RIVER EGRESS LADDER (1 / 21-3)
- SF-8 BBQ GRILL AND ASH BIN (8 / 21-4)
- SF-9 RAILING – TYPE A (1 / 21-3)
- SF-10 RAILING – TYPE B (8 / 21-4)
- SF-11 EXISTING HANDRAIL – CLEANING AND PAINTING (7 / 21-5)
- SF-12 USCG LIFE RING

- SW – SITE WALLS**
SEE STRUCTURAL PLANS FOR DETAILS
- SW-1 RETAINING WALL
- SW-2 SEAT WALL
- SW-3 FLOOD PROTECTION WALL
- SW-4 RAISED PLANTER WALL
- SW-5 OUTCROPPING STONE WALL
- SW-6 CURB WALL



MATCHLINE SEE SHEET L10-3A

FOR IRON BELLE TRAIL – EXISTING CONDITIONS & REMOVALS – 1
SEE SHEET L13-1

CONSTRUCT CURB WALL ON TOP OF EXISTING WALL

CONTRACTOR SHALL REPLACE ANY DAMAGED CONCRETE CAUSED BY CONSTRUCTION ACCESS, TYP

CONTRACTOR TO INSTALL GEOTEXTILE FABRIC OVER SUBGRADE RIPRAP PRIOR TO INSTALLATION OF SITE IMPROVEMENTS IN THIS AREA

FLINT RIVER

FOR U OF M BLOCK – LAYOUT
SEE SHEET L9-3

PROJECT MANAGER: CHRIS WEAVER; DESIGNER: JEFFREY WEAVER; DATE PLOTTED: 11/7/2024 11:24 AM BY WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY
1	05/17/24	RAMP GRADING REVISIONS	SAL

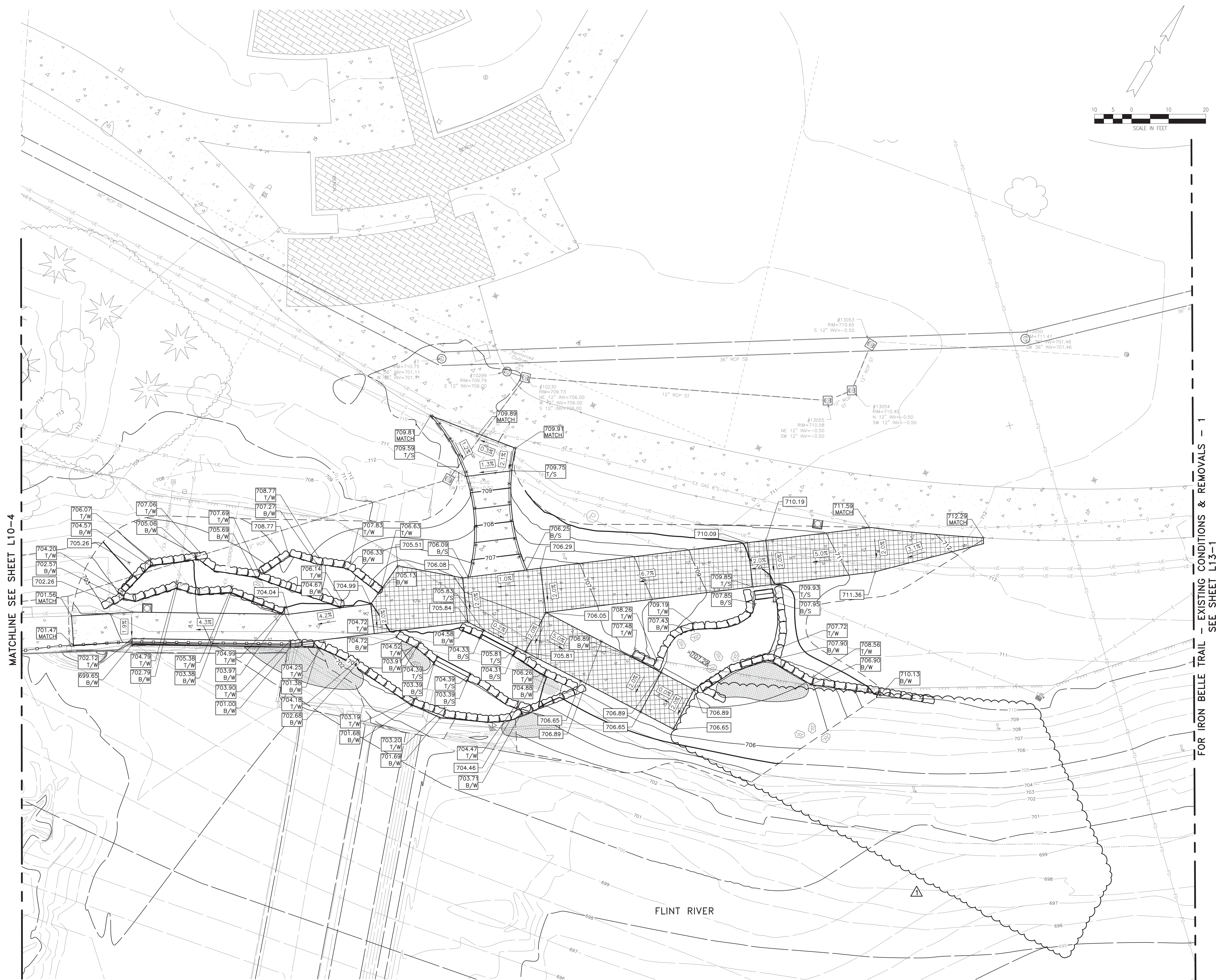
WADE TRIM
905 S. Saginaw Street, Suite 201
Flint, MI 48902
910.291.2656
www.wadetrim.com

GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
ARCHIMEDES SCREW BLOCK – EAST LAYOUT

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SHEET			L11-3A

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MATCHLINE SEE SHEET L10-4

FOR IRON BELLE TRAIL - EXISTING CONDITIONS & REMOVALS - 1
SEE SHEET L13-1

FOR U OF M BLOCK - GRADING
SEE SHEET L9-4

FLINT RIVER



REV#	DATE	DESCRIPTION	BY
1	05/17/24	RAMP GRADING REVISIONS	SAL



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

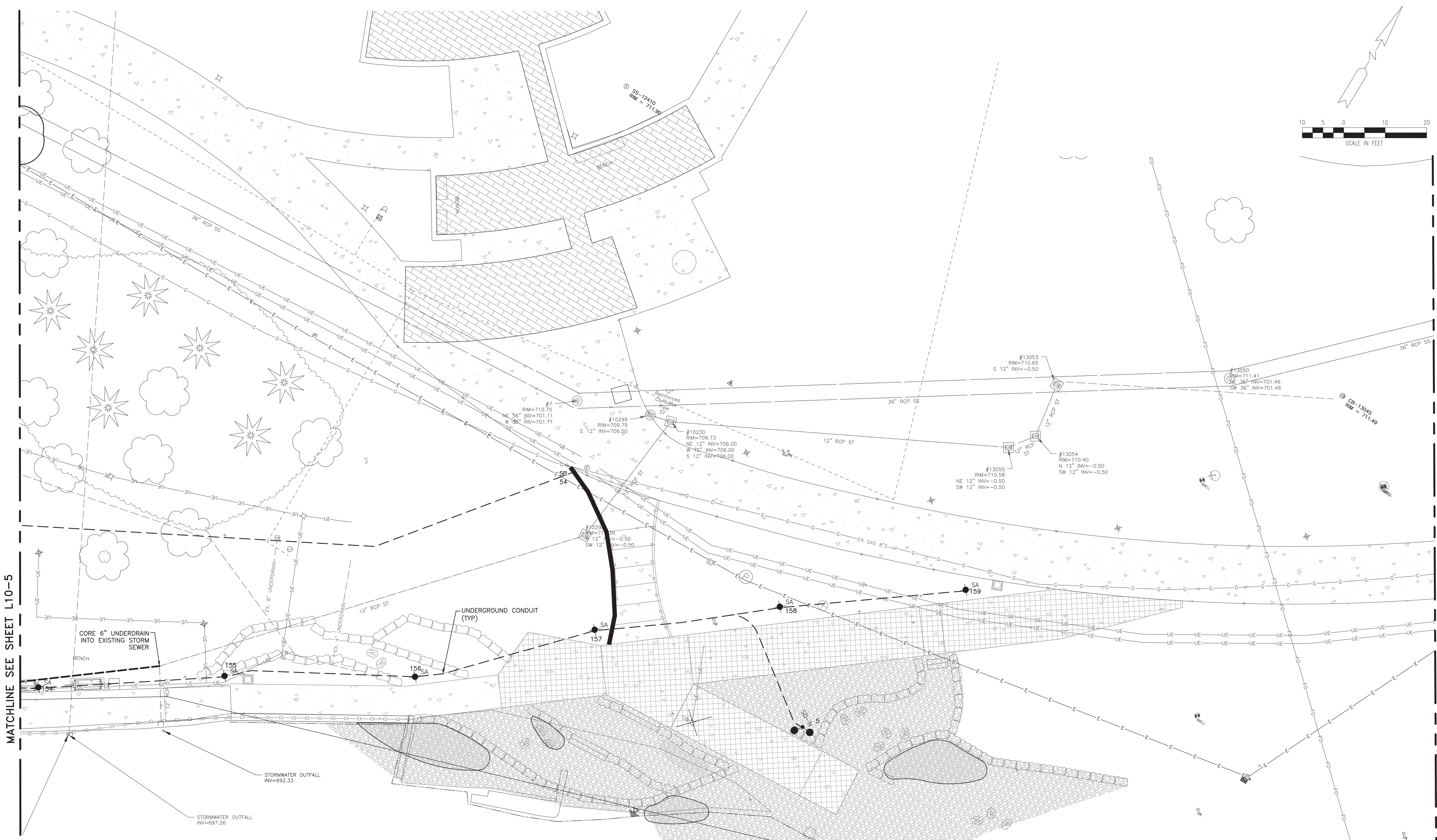
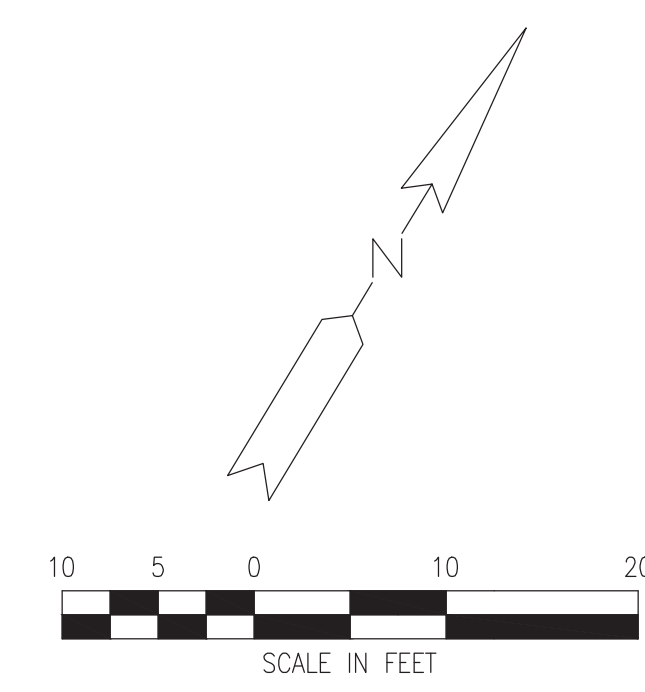
FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - EAST GRADING

ISSUED FOR:	DATE:	BY:
IFB	10/23/24	SAL

JOB NO.	GPA200301F
SHEET	L11-4

PROJECT MANAGER: Ryan Whaley, P.E. PREPARED BY: Ryan Whaley, P.E. DATE: 10/23/24
DRAWN BY: Ryan Whaley, P.E. CHECKED BY: Ryan Whaley, P.E. PLOTTED: 11/17/2024 11:13 AM BY: WAHLEY, RUSSELL

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MATCHLINE SEE SHEET L10-5

FOR IRON BELLE TRAIL - EXISTING CONDITIONS & REMOVALS - 1
SEE SHEET L13-1

FLINT RIVER

ELECTRICAL NOTES

- REFER TO SHEETS E1-7 THRU E1-9 FOR LIGHTING SCHEDULE AND DETAILS.
- REFER TO LIGHTING DIAGRAMS ON SHEETS E1-1 THRU E1-6 FOR CONDUIT/WIRING SIZES.
- ROUTE NEW UNDERGROUND CONDUIT AS CLOSE AS POSSIBLE TO NEW SIDEWALK. COORDINATE WITH ANY EXISTING UTILITIES TO AVOID CONFLICTS. CONDUITS SHALL ALSO AVOID EXISTING TREES AND DRIP LINES WHEREVER POSSIBLE. CONFIRM CONDUIT ROUTING IN FIELD WITH LANDSCAPE ARCHITECT PRIOR TO INSTALLATION. REFER TO LIGHTING DIAGRAMS FOR CONDUIT/WIRES SIZES.
- PROVIDE HANDHOLES AS REQUIRED PER THE NATIONAL ELECTRICAL CODE.
- FOR EXISTING LIGHT POLE DEMOLITION, REFER TO L11-2 REMOVAL SHEETS.
- ELECTRICAL CONDUITS ROUTING ARE APPROXIMATE. CONTRACTOR TO ROUTE CONDUITS AS CLOSE TOGETHER AS POSSIBLE. COORDINATE ROUTING WITH EXISTING AND PROPOSED UTILITIES, AND AVOID DISTURBANCE TO EXISTING TREES. FINAL CONDUIT ROUTING SHALL BE APPROVED IN FIELD BY ENGINEER AND LANDSCAPE ARCHITECT.

LIGHTING LEGEND

- SA ● TYPE SA LIGHT POLE
- SB ■ TYPE SB HANDRAIL LIGHTS
- SC — TYPE SC IN-GRADE AT TUNNELS
- SD-N ● TYPE SD-N NEW FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-R ● TYPE SD-R RELOCATED FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-E ● TYPE SD-E EXISTING POLE + NEW FLOODLIGHTS
- SE ● TYPE SE LIGHTED BOLLARD
- SF ● TYPE SF SOLAR MARKER LIGHT
- SG □ TYPE SG WALL-RECESSED MARKER LIGHT
- HH □ HANDHOLE
- WEATHERPROOF WHILE-IN-USE RECEPTACLE

FOR U OF M BLOCK - UTILITY
SEE SHEET L9-5



REV#	DATE	DESCRIPTION	BY
1	05/17/24	RAMP GRADING REVISIONS	SAL



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

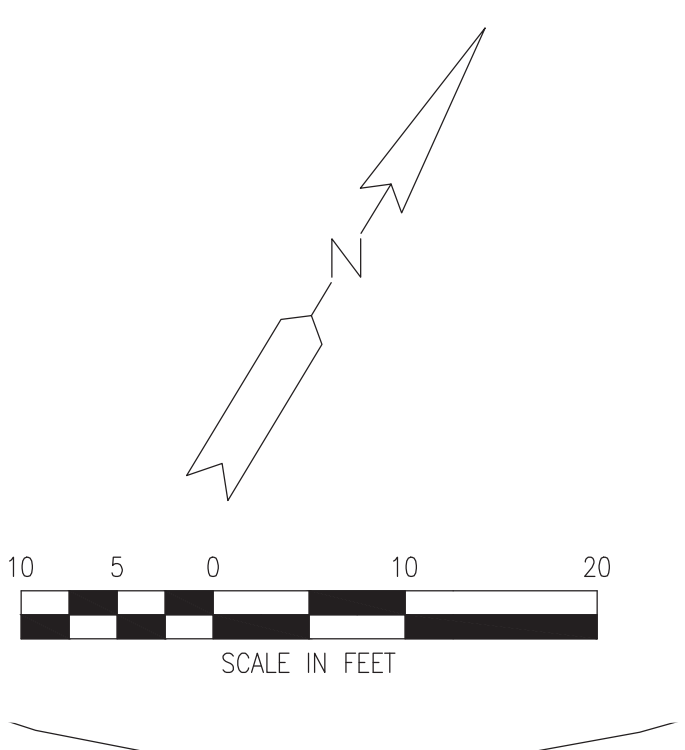
FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - EAST UTILITY

ISSUED FOR: DATE: BY:
IFB 10/23/24 SAL

JOB NO. GPA200301F
SHEET L11-5

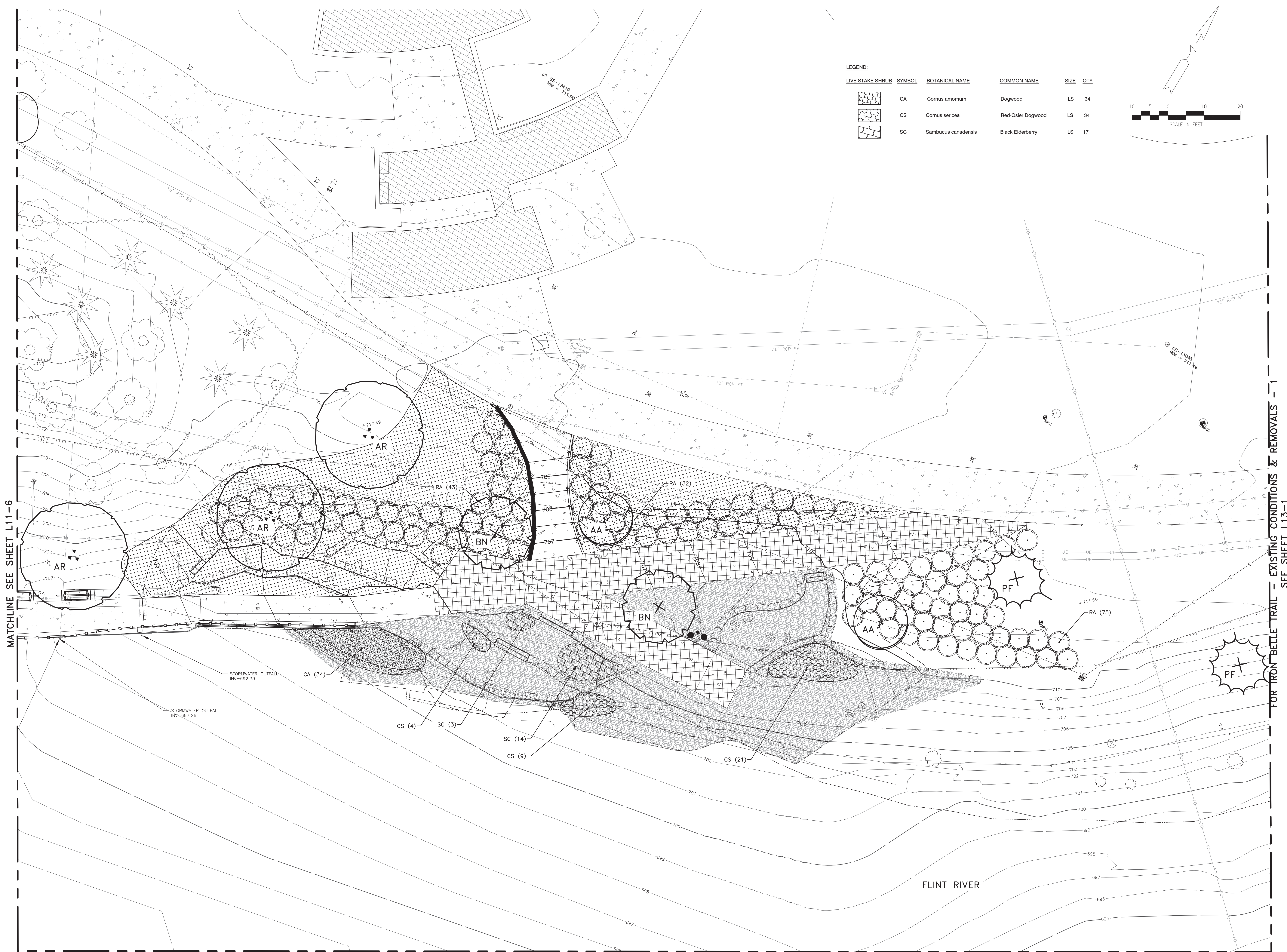
PROJECT MANAGER: JAMES WEAVER; FIELD: PERRY NEWCOMER; DATE PLOTTED: 11/17/2024 11:53 AM BY: WHALEY, RUSSELL

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LEGEND:

LIVE STAKE SHRUB	SYMBOL	BOTANICAL NAME	COMMON NAME	SIZE	QTY
	CA	Cornus amomum	Dogwood	LS 34	
	CS	Cornus sericea	Red-Osier Dogwood	LS 34	
	SC	Sambucus canadensis	Black Elderberry	LS 17	



MATCHLINE SEE SHEET L11-6

FOR IRON BELLE TRAIL - EXISTING CONDITIONS & REMOVALS - 1
SEE SHEET L13-1

FOR U OF M BLOCK - LANDSCAPE
SEE SHEET L9-6

PROJECT MANAGER: JAMES WHALEY, CIVIL ENGINEER, LICENSE NO. 30613, 11/1/2004. PLOTTED: 11/7/2024 11:39 AM BY WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY
1	05/17/24	RAMP GRADING REVISIONS	SAL



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
ARCHIMEDES SCREW BLOCK - EAST LANDSCAPE

ISSUED FOR: IFB	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SHEET			L11-6

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KEY NOTES – REMOVAL

RCG – CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS – LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP – LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA – PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO – PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF – SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW – SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

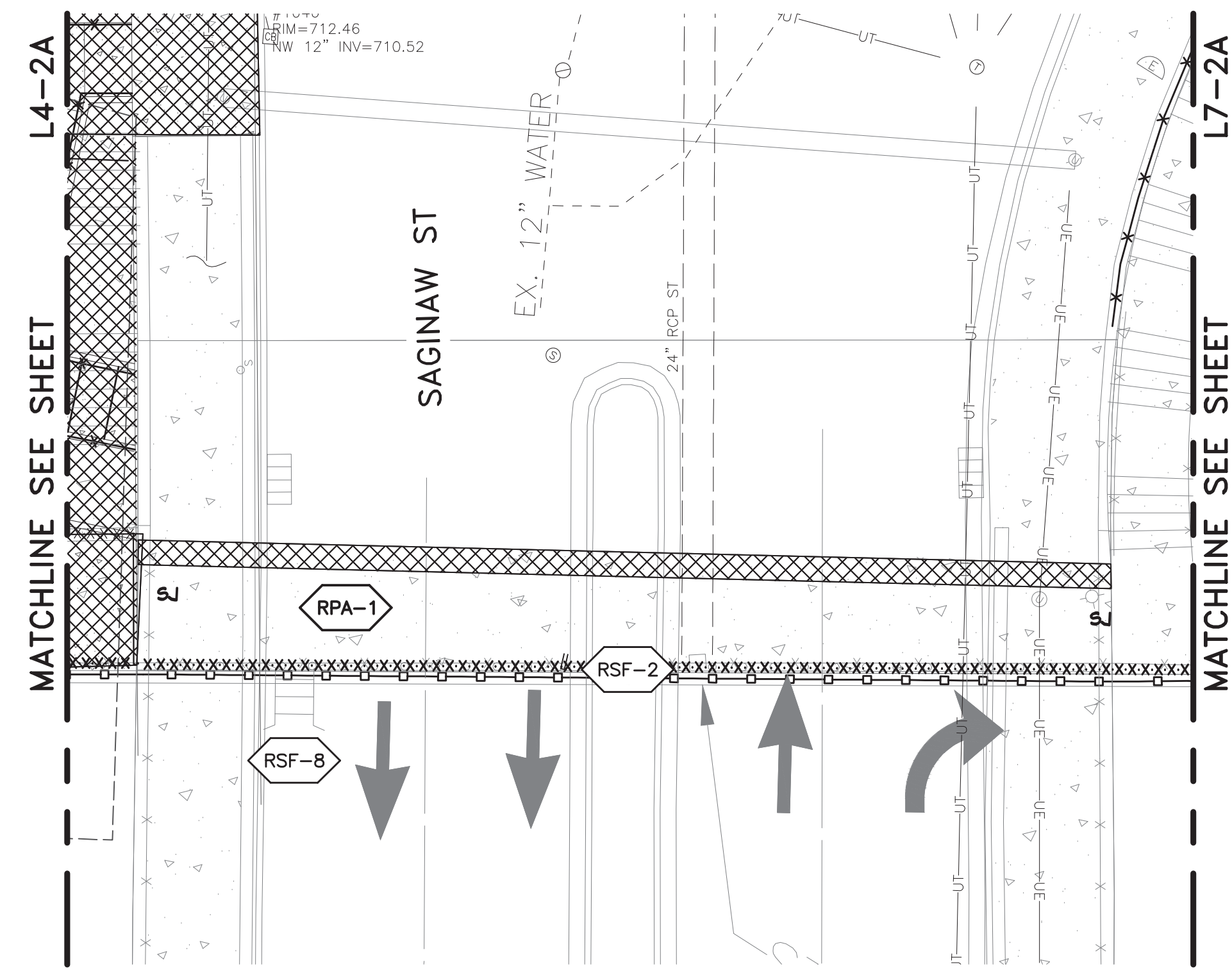
RSW-1 REMOVE RETAINING WALL

RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

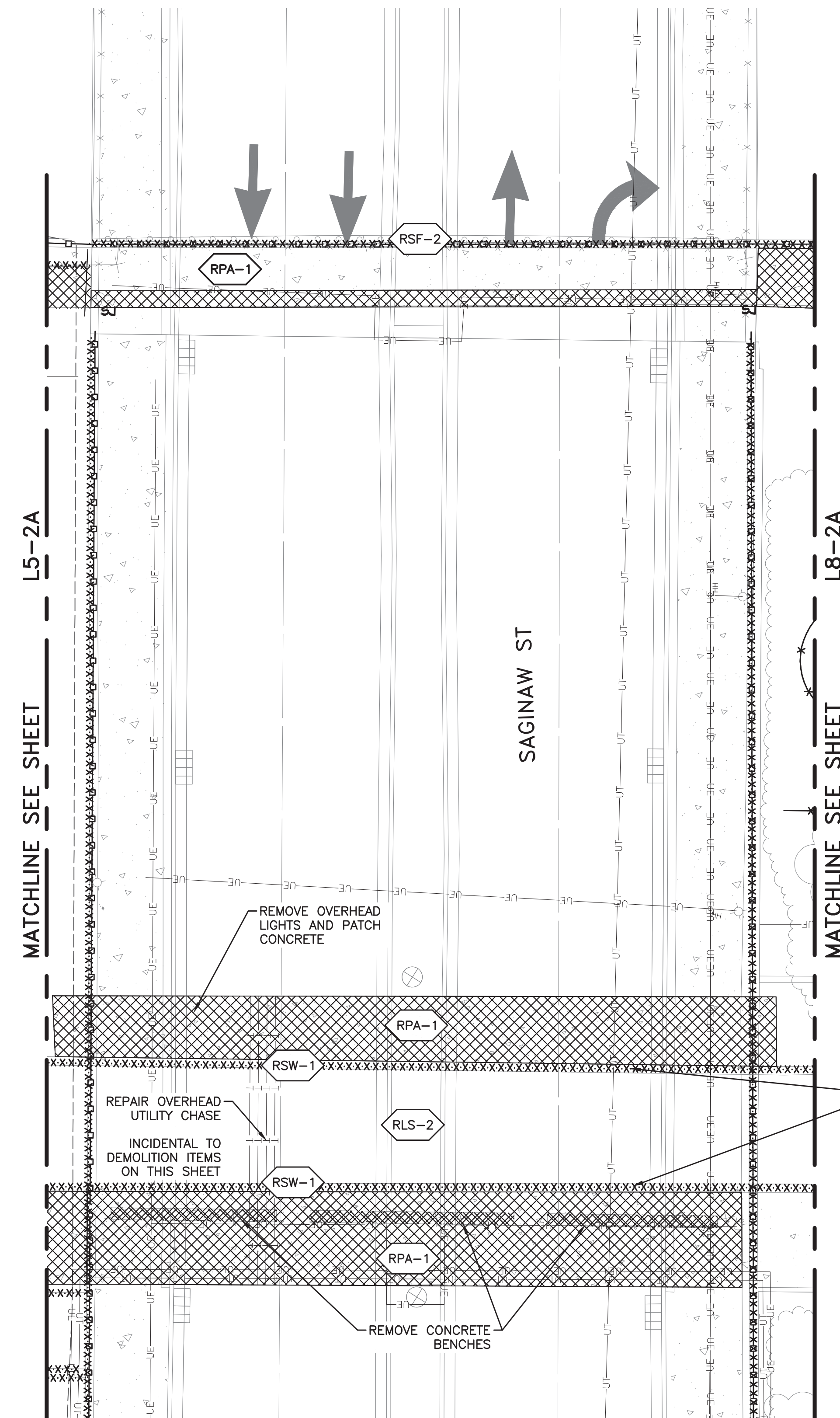
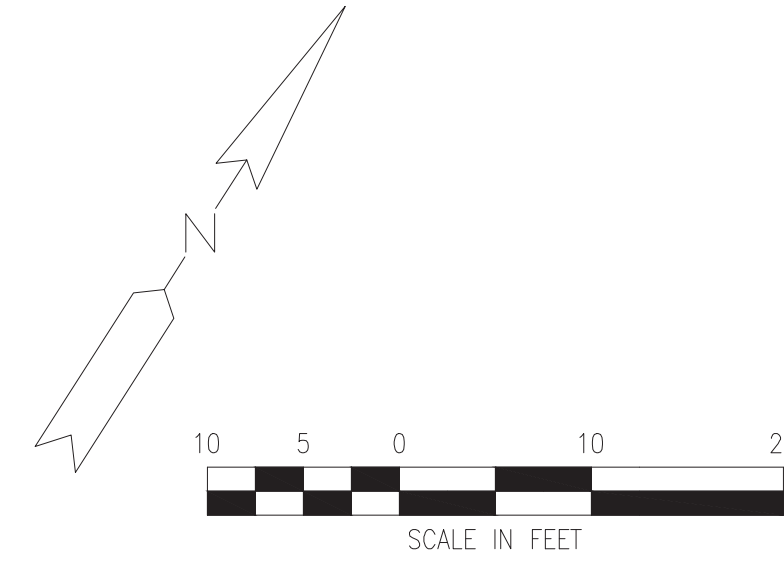
RSW-4 REMOVE PLANTER WALL

RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5



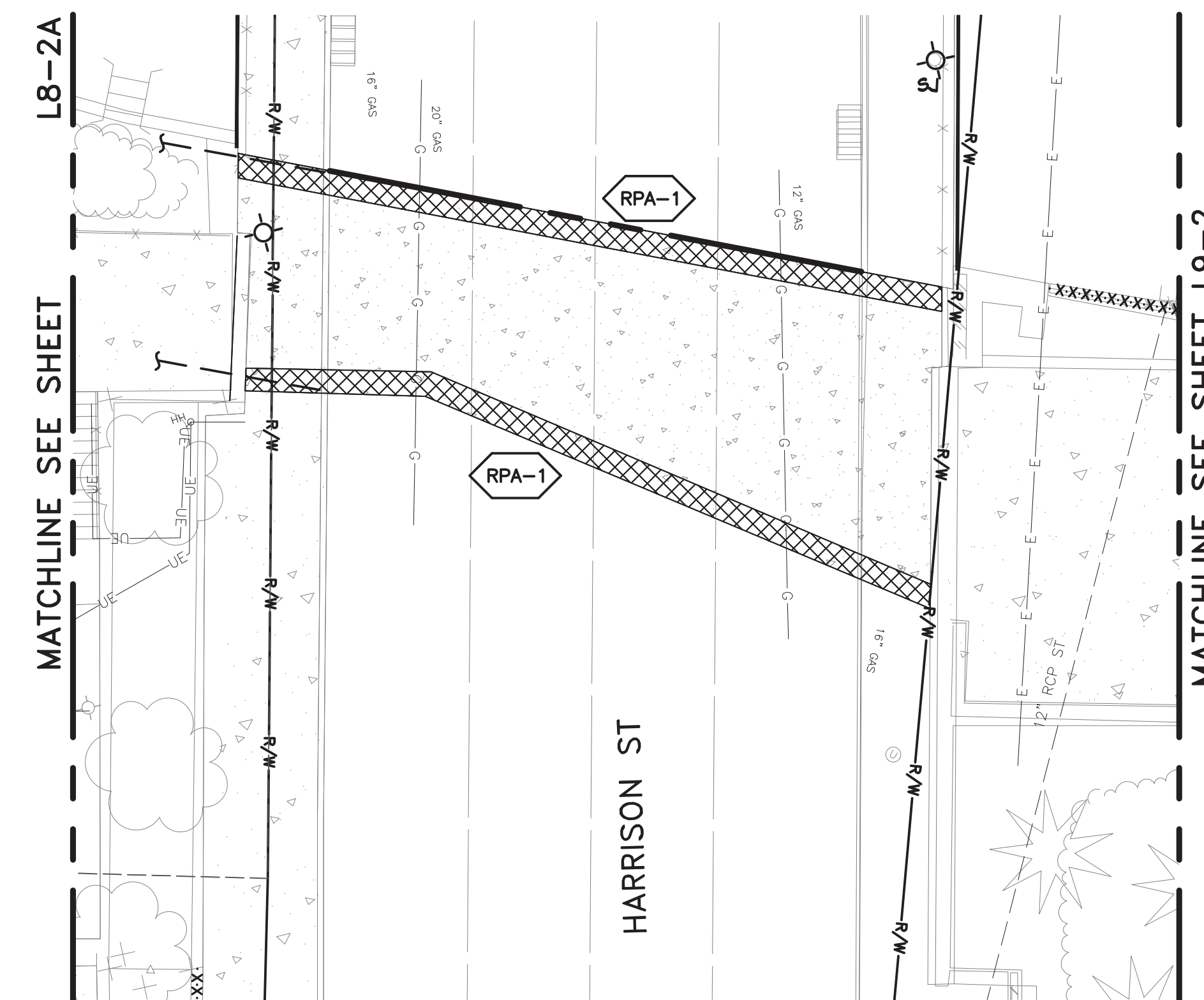
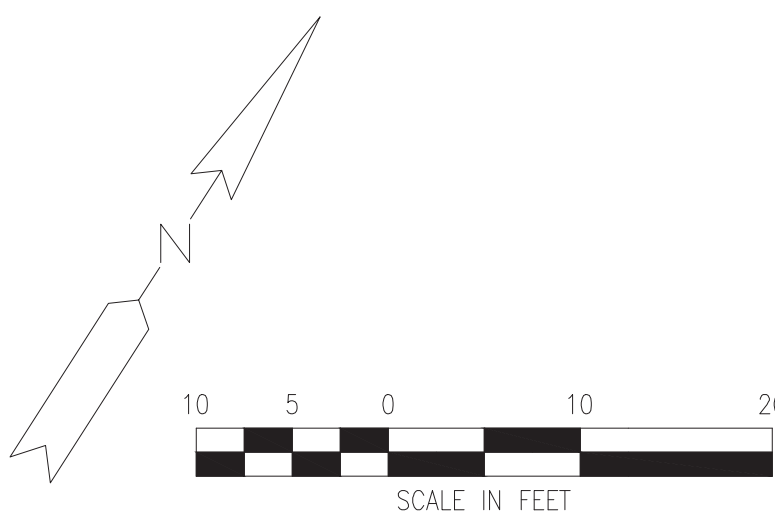
GRAND FOUNTAIN – WATER WALL UNDERPASS

PAY ITEMS ASSOCIATED WITH THIS UNDERPASS ARE INTEGRATED INTO THE GRAND FOUNTAIN BLOCK ALTERNATE



AMPHITHEATER – MARKET STALL UNDERPASS

PAY ITEMS ASSOCIATED WITH THESE UNDERPASSES ARE INTEGRATED INTO THE MARKET STALL BLOCK ALTERNATE



MARKET STALL – U OF M UNDERPASS PLAN



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
UNDERPASSES –
EXISTING CONDITIONS AND REMOVALS

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL
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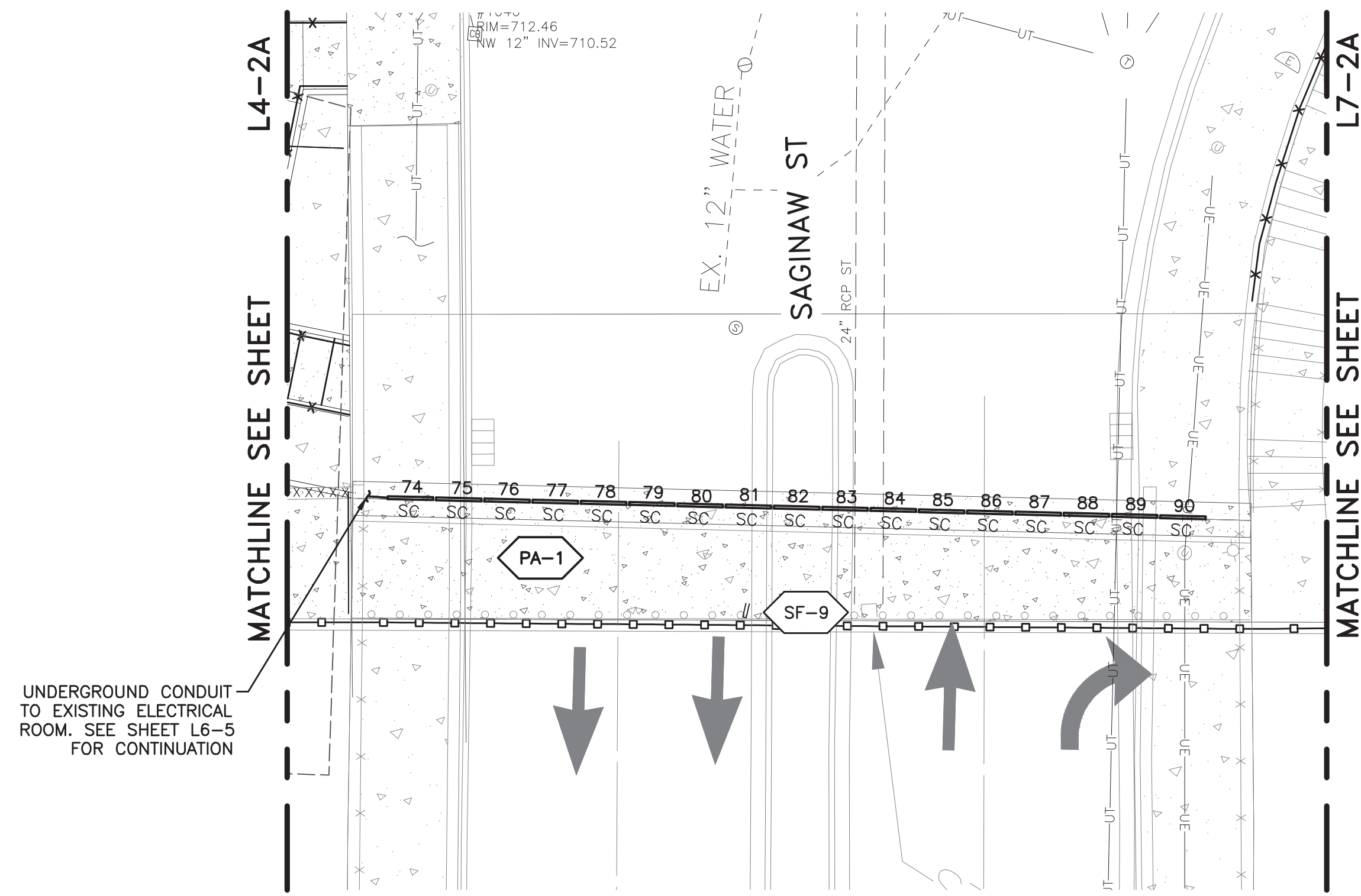
JOB NO. GPA200301F
SHEET L12-1

PROJECT MANAGER: JAMES WHELAN, P.E. (CSP-PLUS-UNDERPASS) - L12-1 - PLOTTED: 10/24/2024 8:58 AM BY: WHALEY, RUSSELL

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ELECTRICAL NOTES

1. REFER TO SHEETS E1-7 THRU E1-9 FOR LIGHTING SCHEDULE AND DETAILS.
2. REFER TO LIGHTING DIAGRAMS ON SHEETS E1-1 THRU E1-6 FOR CONDUIT/WIRING SIZES.
3. ROUTE NEW UNDERGROUND CONDUIT AS CLOSE AS POSSIBLE TO NEW SIDEWALK. COORDINATE WITH ANY EXISTING UTILITIES TO AVOID CONFLICTS. REFER TO LIGHTING DIAGRAMS FOR CONDUIT/WIRES SIZES.
4. PROVIDE HANDHOLES AS REQUIRED PER THE NATIONAL ELECTRICAL CODE.
5. FOR EXISTING LIGHT POLE DEMOLITION, REFER TO L11-2 REMOVAL SHEETS.



GRAND FOUNTAIN - WATER WALL UNDERPASS

PAY ITEMS ASSOCIATED WITH THIS UNDERPASS ARE INTEGRATED INTO THE GRAND FOUNTAIN BLOCK ALTERNATE

KEY NOTES - PROPOSED

CG - CURB AND GUTTER

- CG-1 STANDARD CURB AND GUTTER (11 / L21-1)
- CG-2 CURB RAMP (9 / L21-7)

LS - LANDSCAPE

- LS-1 PLANTER BED (3 / L23-1)
- LS-2 BIORETENTION BED (1 / L23-1)
- LANDSCAPE BOULDER (2 / L23-1)
- BARRIER BOULDER (9 / L21-3)
- LS-5 TREE GRATE (14 / L21-1)
- LS-6 RIVER ACCESS STONE (8 / L21-1)

PA - PAVING

- PA-1 CONCRETE WALK 4" - STANDARD (3 / L21-1)
- PA-2 CONCRETE WALK 8" - REINFORCED (4 / L21-1)
- PA-3 CONCRETE WALK - EXPOSED AGGREGATE (6 / L21-1)
- PA-4 CONCRETE - COLORED (3 / L21-1)
- PA-5 ASPHALT ROADWAY (1 / L21-1)
- PA-6 ASPHALT TRAIL (2 / L21-1)
- PA-7 PERMEABLE PAVER (8 / L21-1)
- PA-8 STANDARD PAVER (7 / L21-1)
- PA-9 STAIRS - STANDARD (1 / L21-7)
- PA-10 STAIRS - CUSTOM (8 / L21-4)
- PA-11 STAIRS - PERRONS (8 / L21-4)
- PA-12 MEET EXISTING PAVEMENT (8 / L21-2)
- PA-13 CROSSWALK (8 / L21-2)

SF - SITE FEATURES

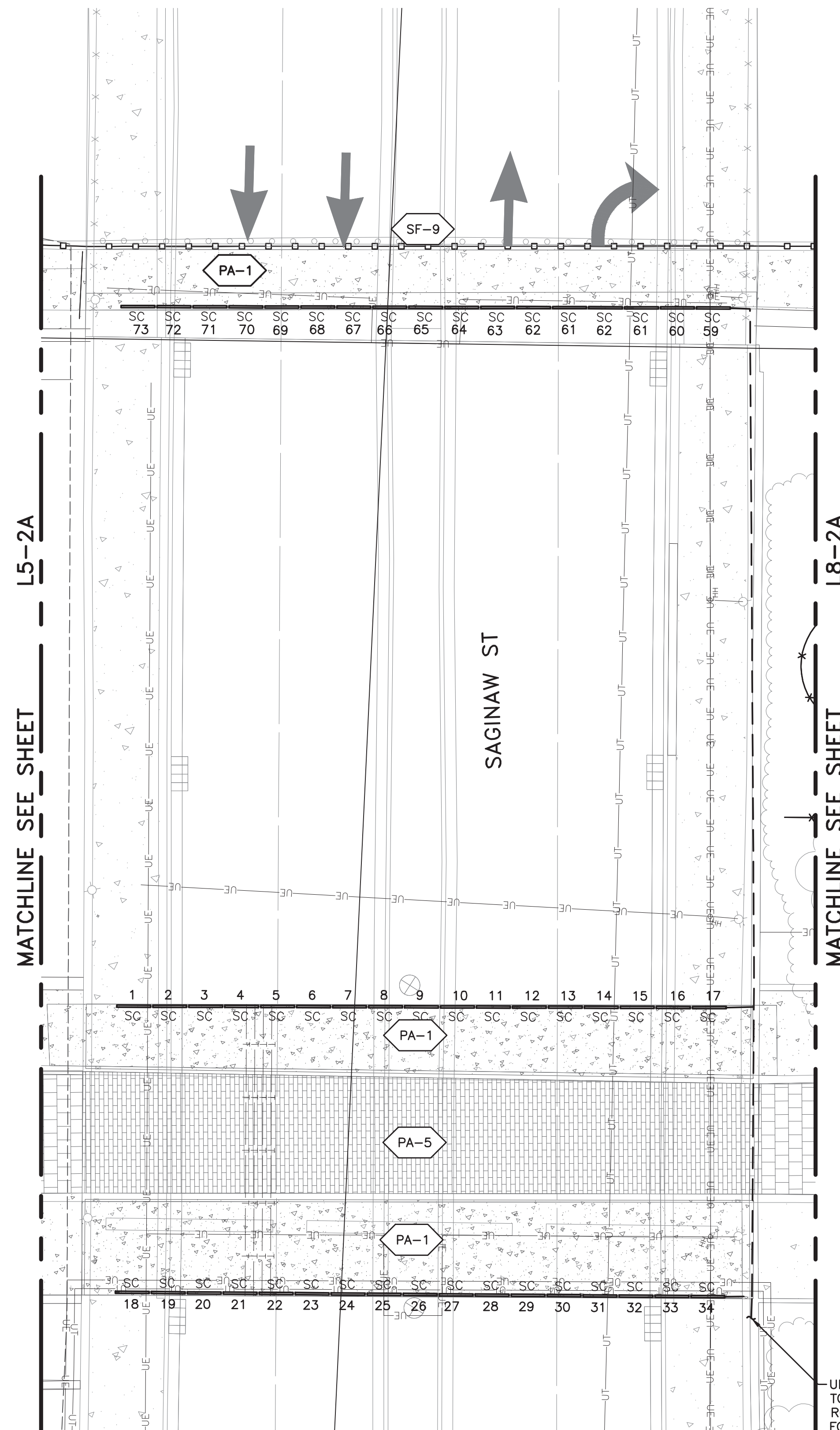
- SF-1 BENCH - STANDARD (6 / L21-3)
- SF-2 SWINGING BENCH (10 / L21-5)
- SF-3 PICNIC TABLE (9 / L21-3)
- LITTER BIN (8 / L21-3)
- SF-5 BIKE RACKS (10 / L21-3)
- SF-6 PARK SIGN (8 / L21-3)
- RIVER EGRESS LADDER (2 / L21-6)
- SF-8 BBQ GRILL AND ASH BIN (1 / L21-3)
- SF-9 RAILING - TYPE A (8 / L21-4)
- SF-10 RAILING - TYPE B (7 / L21-5)
- SF-11 EXISTING HANDRAIL - CLEANING AND PAINTING (9 / L21-5)
- SF-12 USCG LIFE RING (8 / L21-4)

SW - SITE WALLS

- SEE STRUCTURAL PLANS FOR DETAILS
- SW-1 RETAINING WALL
- SW-2 SEAT WALL
- SW-3 FLOOD PROTECTION WALL
- SW-4 RAISED PLANTER WALL
- SW-5 OUTCROPPING STONE WALL (9 / L21-5)
- SW-6 CURB WALL

LIGHTING LEGEND

- SA TYPE SA LIGHT POLE
- SB TYPE SB HANDRAIL LIGHTS
- SC TYPE SC IN-GRADE AT TUNNELS
- SD-N TYPE SD-N NEW FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-R TYPE SD-R RELOCATED FEATURE LIGHTING POLE + NEW FLOODLIGHTS
- SD-E TYPE SD-E EXISTING POLE + NEW FLOODLIGHTS
- SE TYPE SE LIGHTED BOLLARD
- SF TYPE SF SOLAR MARKER LIGHT
- SG TYPE SG WALL-RECESSED MARKER LIGHT
- HH HANDHOLE



AMPHITHEATER - MARKET STALL UNDERPASS

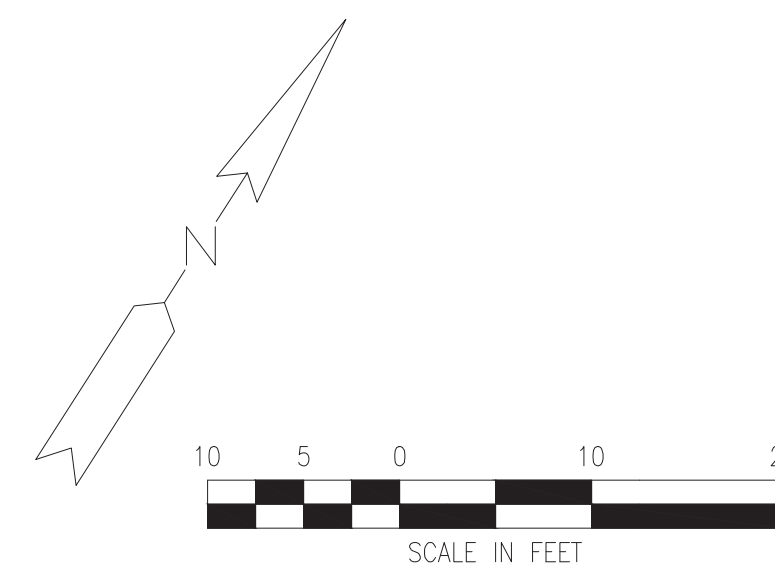
PAY ITEMS ASSOCIATED WITH THESE UNDERPASSES ARE INTEGRATED INTO THE MARKET STALL BLOCK ALTERNATE

UNDERGROUND CONDUIT TO EXISTING ELECTRICAL ROOM. SEE SHEET L8-2A FOR CONTINUATION

UNDERGROUND CONDUIT TO EXISTING ELECTRICAL ROOM. SEE SHEET L8-2A FOR CONTINUATION



MARKET STALL - U OF M UNDERPASS PLAN



PROJECT MANAGER: BOB WHALEY, P.E. FILED: BOB WHALEY, P.E. PLOTTED: 10/24/2024 8:59 AM BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
UNDERPASSES -
LAYOUT, GRADING, AND UTILITY

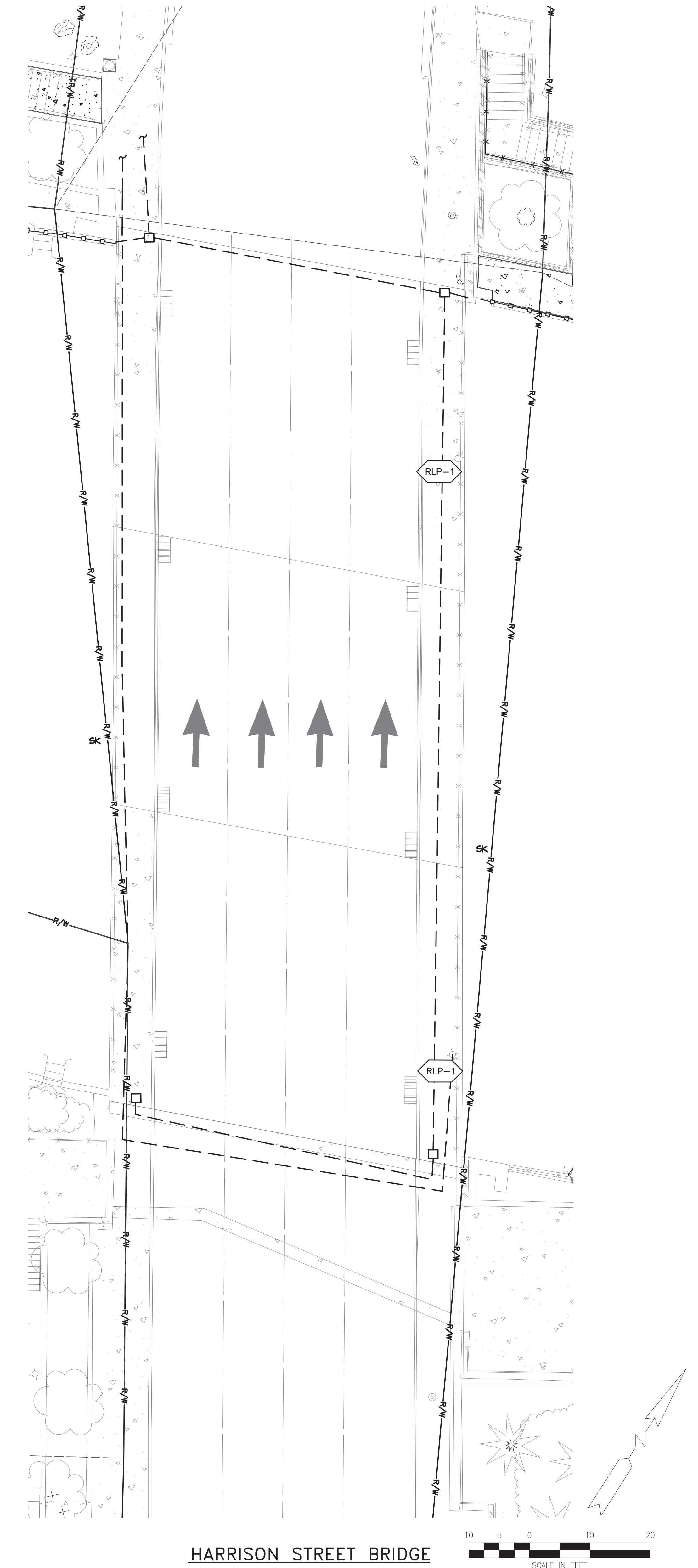
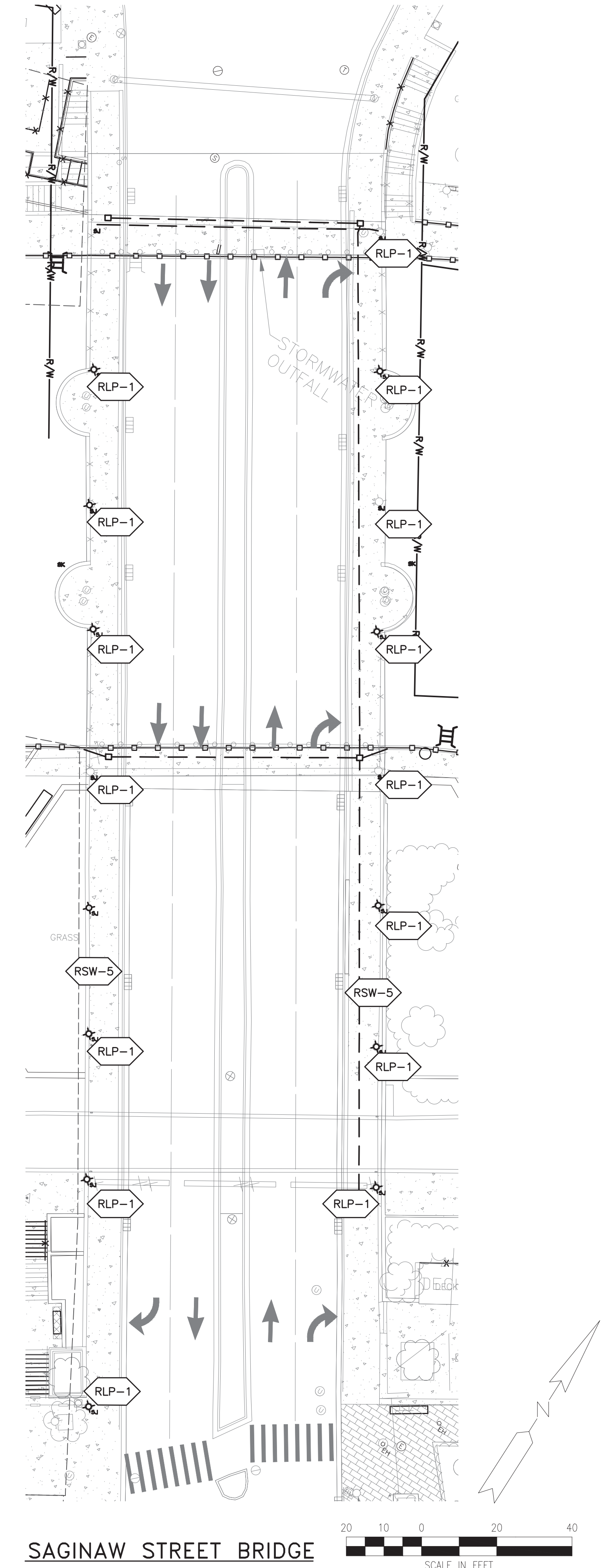
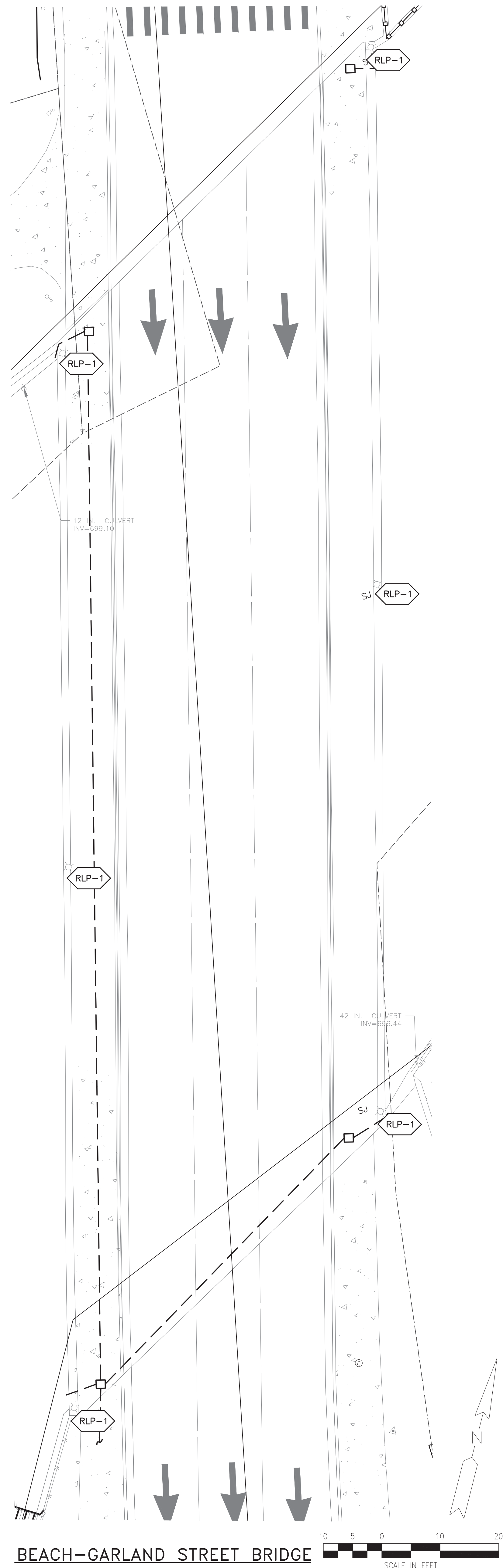
ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL
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JOB NO. GPA200301F
SHEET L12-2

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KEY NOTES – REMOVAL

- RCG – CURB AND GUTTER**
- RCG-1 REMOVE STANDARD CURB AND GUTTER
- RLS – LANDSCAPE**
- X REMOVE TREE
- RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS
- RLS-3 REMOVE AND STOCKPILE TOPSOIL
- RLP – LIGHTING AND POWER**
- RLP-1 REMOVE LIGHT POLE
- RPA – PAVING**
- RPA-1 REMOVE CONCRETE
- RPA-2 REMOVE STAIRS
- RPA-3 REMOVE PAVER
- RPA-4 SAWCUT PAVING
- RPA-5 REMOVE ASPHALT
- PRO – PROTECTION**
- PRO-1 PLACE TREE PROTECTION FENCE
- PRO-2 PROTECT EXISTING FEATURE
- RSF – SITE FEATURES**
- RSF-1 REMOVE BENCH OR TABLE
- RSF-2 REMOVE RAILING
- RSF-3 REMOVE BOLLARD
- RSF-4 REMOVE SIGN
- RSF-5 REMOVE POST AND ROPE/CHAIN RAILING
- RSF-6 REMOVE GUARDRAIL
- RSF-7 REMOVE CHAIN LINK FENCE
- RSF-8 REMOVE RIVER EGRESS LADDER
- RSW – SITE WALLS**
- SEE STRUCTURAL PLANS FOR DETAILS
- RSW-1 REMOVE RETAINING WALL
- RSW-2 REMOVE SEAT OR SITE WALL
- RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL
- RSW-4 REMOVE PLANTER WALL
- RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5



PROJECT MANAGER: JAMES WEAVER; DESIGNER: JAMES WEAVER; PLOTTED: 10/24/2024 9:00 AM BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
BRIDGES – EXISTING AND REMOVALS

ISSUED FOR: (FBI)	DATE: 10/23/24	BY: SAL	JOB NO. GPA200301F
SHEET			L12-3

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KEY NOTES – PROPOSED

CG – CURB AND GUTTER

- CG-1 STANDARD CURB AND GUTTER (11) (L21-1)
- CG-2 CURB RAMP (9) (L21-1)
- LS – LANDSCAPE**
- LS-1 PLANTER BED (3) (L23-1)
- LS-2 BIORETENTION BED (1) (L23-1)
- LANDSCAPE BOULDER (2) (L23-1)
- BARRIER BOULDER (9) (L21-3)
- LS-5 TREE GRATE (14) (L21-1)
- PA-12 RIVER ACCESS STONE

PA – PAVING

- PA-1 CONCRETE WALK 4"– STANDARD (3) (L21-1)
- PA-2 CONCRETE WALK 8"– REINFORCED (4) (L21-1)
- PA-3 CONCRETE WALK – EXPOSED AGGREGATE (6) (L21-1)
- PA-4 CONCRETE – COLORED (3) (L21-1)
- PA-15 ASPHALT ROADWAY (1) (L21-1)
- PA-3 ASPHALT TRAIL (2) (L21-1)
- PA-4 PERMEABLE PAVER (8) (L21-1)
- PA-5 STANDARD PAVER (7) (L21-1)
- PA-6 STAIRS – STANDARD (1) (L21-7)
- PA-7 STAIRS – CUSTOM (8) (L21-4)
- PA-8 STAIRS – PERRONS (8) (L21-4)
- PA-11 MEET EXISTING PAVEMENT (8) (L21-2)
- PA-10 CROSSWALK

SF – SITE FEATURES

- SF-1 BENCH – STANDARD (6) (L21-3)
- SF-9 SWINGING BENCH (10) (L21-5)
- SF-10 PICNIC TABLE (9) (L21-3)
- LITTER BIN (8) (L21-3)
- SF-5 BIKE RACKS (10) (L21-3)
- SF-6 PARK SIGN (8) (L21-3)
- RIVER EGRESS LADDER (2) (L21-6)
- SF-2 RAILING – TYPE A (1) (L21-3)
- SF-3 RAILING – TYPE B (8) (L21-4)
- SF-11 EXISTING HANDRAIL – CLEANING AND PAINTING (7) (L21-5)
- SF-12 USCG LIFE RING

SW – SITE WALLS
SEE STRUCTURAL PLANS FOR DETAILS

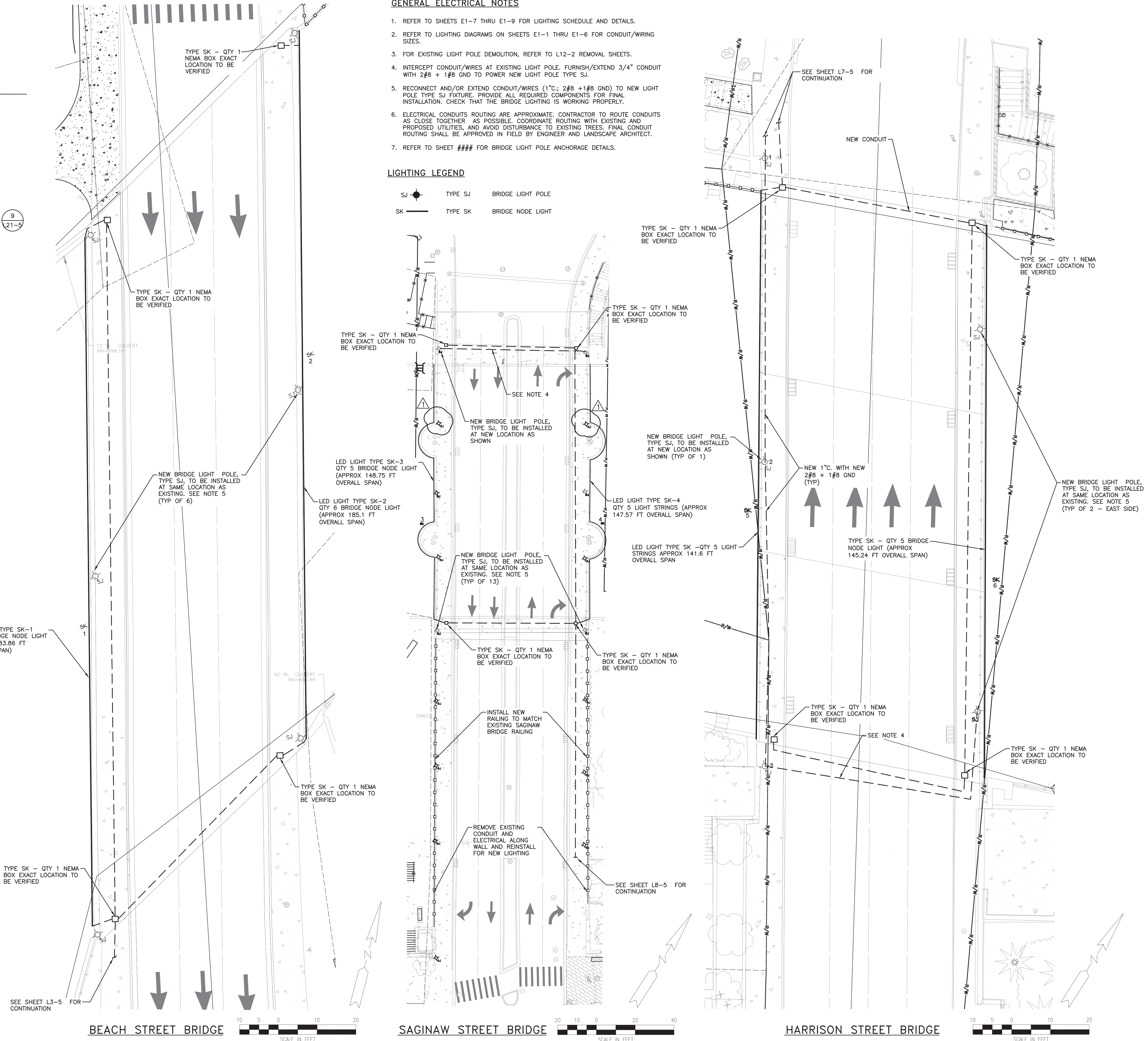
- SW-1 RETAINING WALL
- SW-2 SEAT WALL
- SW-3 FLOOD PROTECTION WALL
- SW-4 RAISED PLANTER WALL (9) (L21-5)
- SW-5 OUTCROPPING STONE WALL
- SW-6 CURB WALL

GENERAL ELECTRICAL NOTES

- REFER TO SHEETS E1-7 THRU E1-9 FOR LIGHTING SCHEDULE AND DETAILS.
- REFER TO LIGHTING DIAGRAMS ON SHEETS E1-1 THRU E1-6 FOR CONDUIT/WIRING SIZES.
- FOR EXISTING LIGHT POLE DEMOLITION, REFER TO L12-2 REMOVAL SHEETS.
- INTERCEPT CONDUIT/WIRES AT EXISTING LIGHT POLE. FURNISH/EXTEND 3/4" CONDUIT WITH 2#8 + 1#8 GND TO POWER NEW LIGHT POLE TYPE SJ.
- RECONNECT AND/OR EXTEND CONDUIT/WIRES (1" C.; 2#8 + 1#8 GND) TO NEW LIGHT POLE TYPE SJ FIXTURE. PROVIDE ALL REQUIRED COMPONENTS FOR FINAL INSTALLATION. CHECK THAT THE BRIDGE LIGHTING IS WORKING PROPERLY.
- ELECTRICAL CONDUITS ROUTING ARE APPROXIMATE. CONTRACTOR TO ROUTE CONDUITS AS CLOSE TOGETHER AS POSSIBLE. COORDINATE ROUTING WITH EXISTING AND PROPOSED UTILITIES, AND AVOID DISTURBANCE TO EXISTING TREES. FINAL CONDUIT ROUTING SHALL BE APPROVED IN FIELD BY ENGINEER AND LANDSCAPE ARCHITECT.
- REFER TO SHEET ### FOR BRIDGE LIGHT POLE ANCHORAGE DETAILS.

LIGHTING LEGEND

- SJ TYPE SJ BRIDGE LIGHT POLE
- SK TYPE SK BRIDGE NODE LIGHT



FILED: 8/24/2024 10:24 AM BY: WHALEY, RUSSELL
 PROJECT MANAGER: 8/24/2024 10:24 AM BY: WHALEY, RUSSELL
 C:\P\2024\08\24\2024\GPA200301F-BRIDGES.DWG - L12-4 - PLOTTED 10/24/2024 9:02 AM BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY

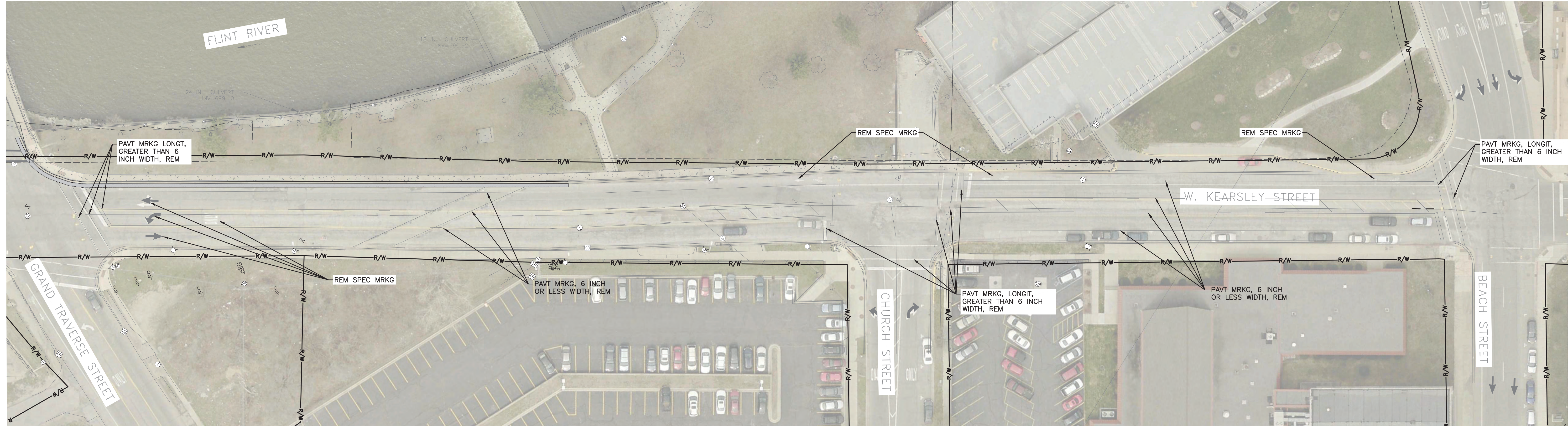


GENESEE COUNTY PARKS & REC
 5045 E. STANLEY ROAD
 FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
 BRIDGES – LAYOUT, GRADING, AND UTILITY

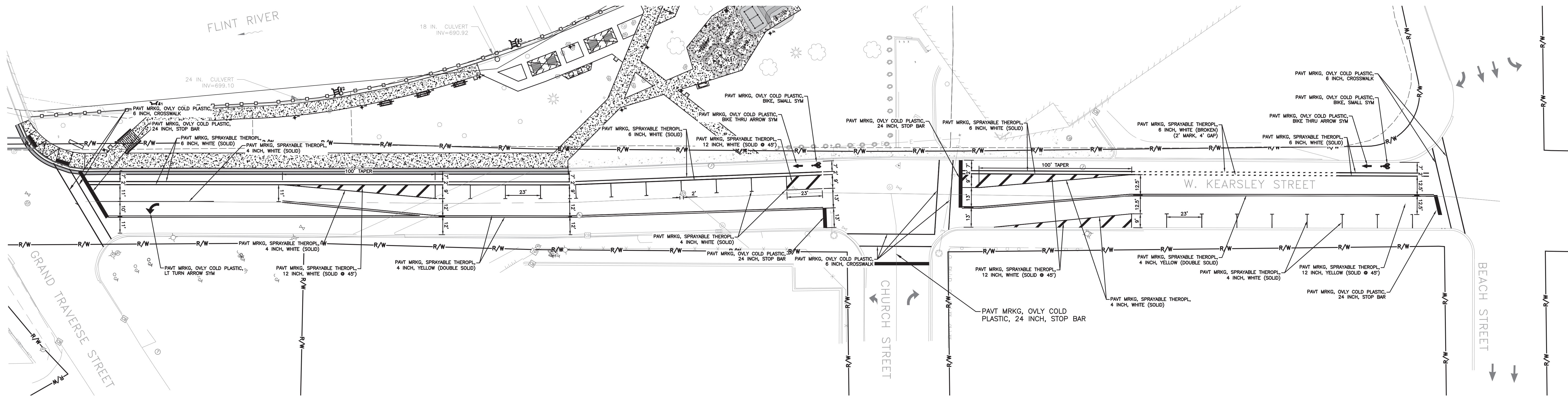
ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO.: GPA200301F
SHEET			L12-4

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KEARSLEY STREET – EXISTING CONDITIONS AND REMOVALS

NOTE: CONTRACTOR TO REMOVE PAVEMENT MARKINGS ON KEARSLEY FROM GRAND TRAVERSE TO BEACH STREET. ALL PAVEMENT MARKING REMOVAL, COMPLETE PAY ITEM.



KEARSLEY STREET – PROPOSED

PROJECT MANAGER: JAMES WHEAT; FILED: BEACH RESTORATION; C:\P\W\2024\10\24\1530\CSFP-PLUS-BRIDGES.DWG - L12-5 - PLOTTED: 10/24/2024 9:02 AM BY WHALEY, RUSSELL

REV#	DATE	DESCRIPTION	BY



295 S. Saginaw Street, Suite 201
Flint, MI 48506
910.231.2556
www.wadetrim.com

GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
KEARSLEY STREET MODIFICATIONS

ISSUED FOR: DATE: BY:
FB 10/23/24 SAL

JOB NO.
GPA200301F

SHEET
L12-5

© Wade Trim, Inc. Flint River Restoration

KEY NOTES – REMOVAL

RCG – CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS – LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP – LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA – PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO – PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF – SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW – SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

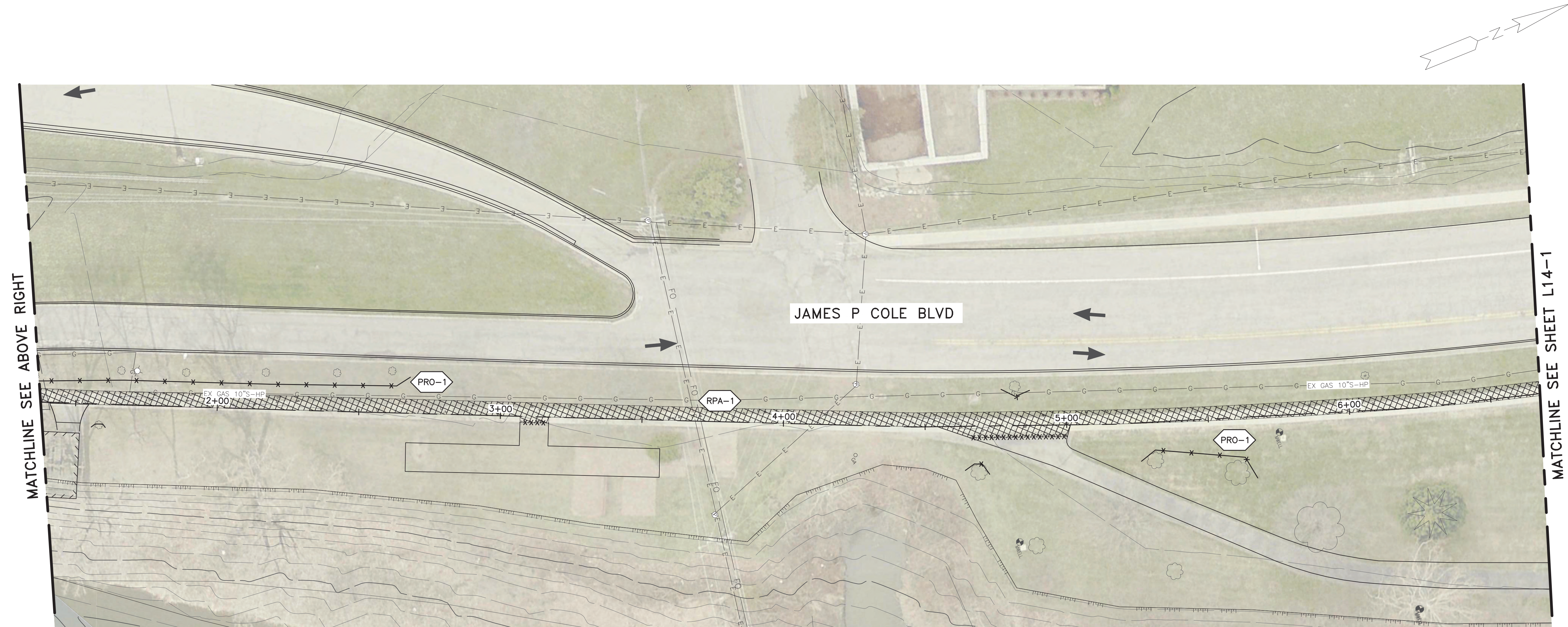
RSW-1 REMOVE RETAINING WALL

RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

RSW-4 REMOVE PLANTER WALL

RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5



PROJECT MANAGER: JAMES WATKINS; DESIGNER: JAMES WATKINS; CHECKER: JAMES WATKINS; PLOT DATE: 10/24/24; PLOTTED: 10/24/24 9:03 AM BY WAHLEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
IRON BELLE TRAIL
EXISTING CONDITIONS & REMOVALS – 1

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO.: GPA200301F
SCALE IN FEET			SHEET: L13-1

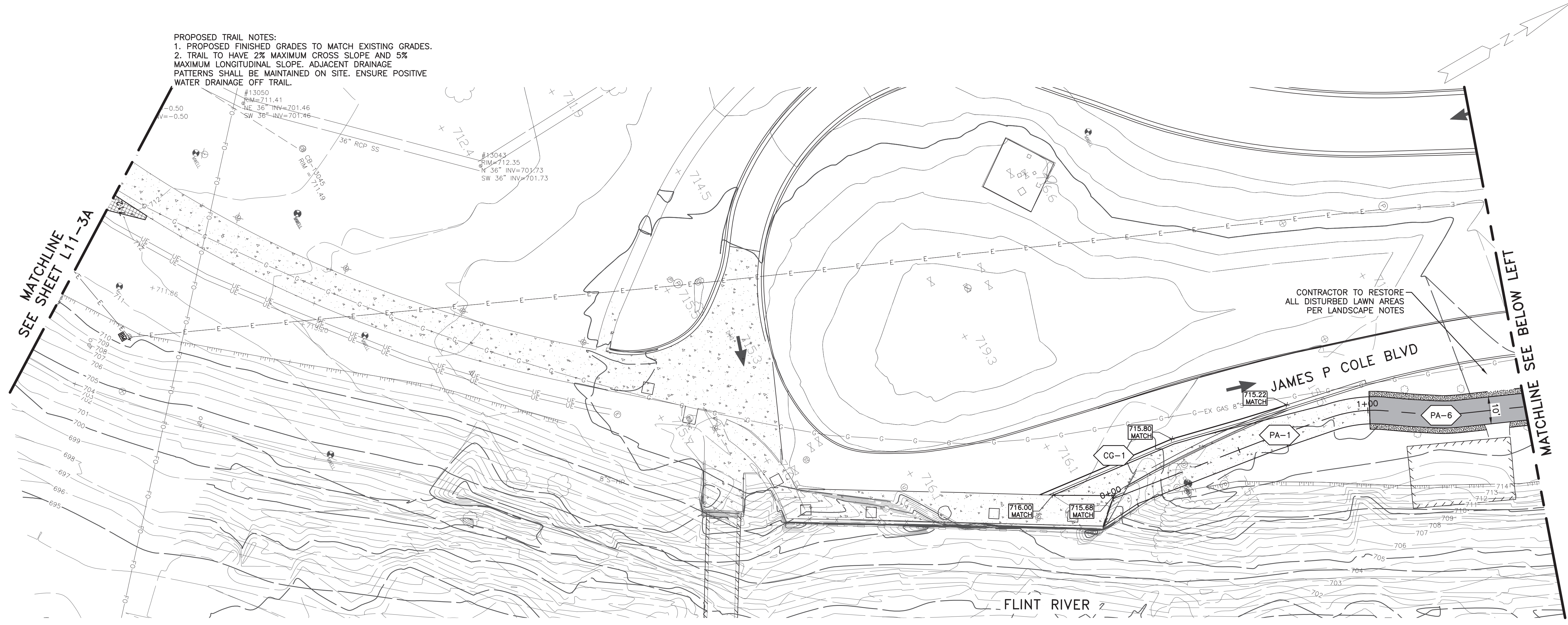
© 2024 Iron Belle, Inc. FLINT RIVER RESTORATION

KEY NOTES - PROPOSED

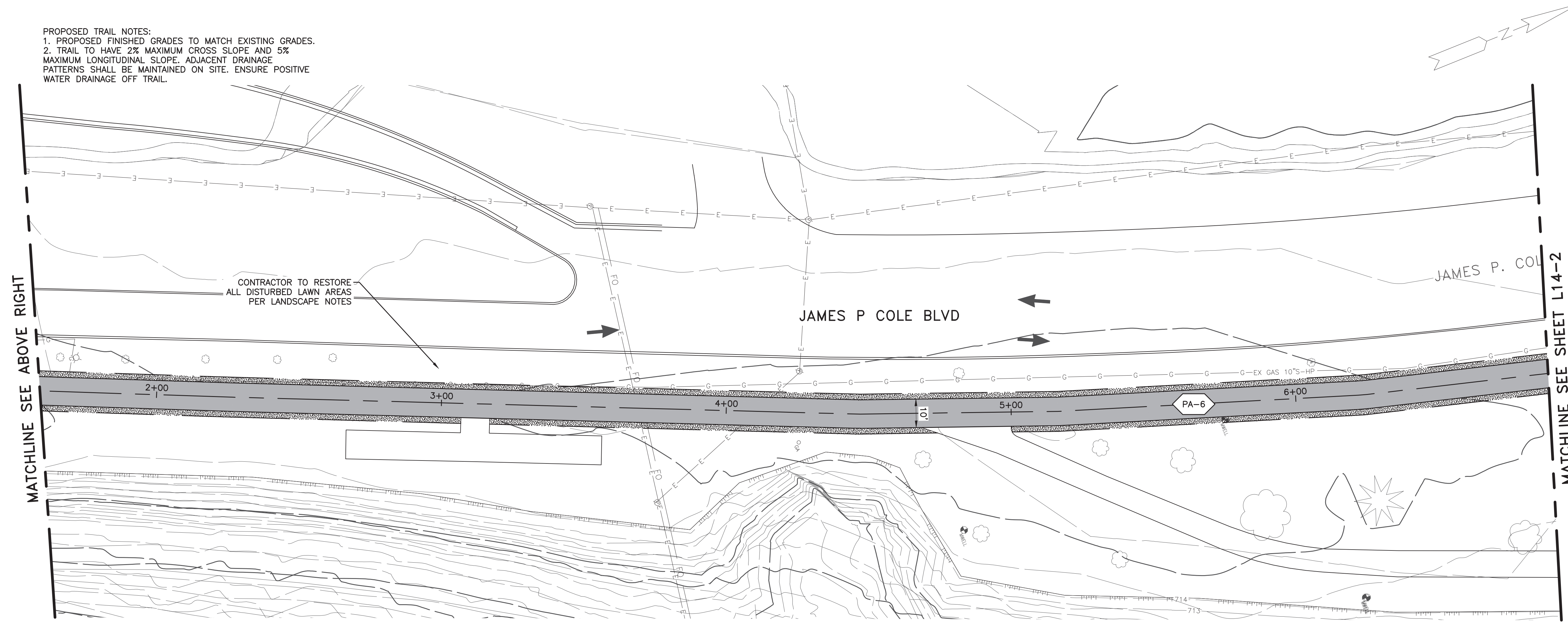
- CG - CURB AND GUTTER**
- CG-1 STANDARD CURB AND GUTTER (11 / 21-1)
- CG-2 CURB RAMP (9 / 21-1)
- LS - LANDSCAPE**
- LS-1 PLANTER BED (3 / 23-1)
- LS-2 BIORETENTION BED (1 / 23-1)
- LANDSCAPE BOULDER (2 / 23-1)
- BARRIER BOULDER (9 / 21-3)
- LS-5 TREE GRATE (14 / 21-1)
- LS-6 RIVER ACCESS STONE (3 / 21-1)
- PA - PAVING**
- PA-1 CONCRETE WALK 4" - STANDARD (4 / 21-1)
- PA-2 CONCRETE WALK 8" - REINFORCED (6 / 21-1)
- PA-3 CONCRETE WALK - EXPOSED AGGREGATE (3 / 21-1)
- PA-4 CONCRETE - COLORED (1 / 21-1)
- PA-5 ASPHALT ROADWAY (2 / 21-1)
- PA-6 ASPHALT TRAIL (8 / 21-1)
- PA-7 PERMEABLE PAVER (7 / 21-1)
- PA-8 STANDARD PAVER (1 / 21-1)
- PA-9 STAIRS - STANDARD (8 / 21-4)
- PA-10 STAIRS - CUSTOM (8 / 21-4)
- PA-11 STAIRS - PERRONS (8 / 21-4)
- PA-11 MEET EXISTING PAVEMENT (8 / 21-2)
- PA-10 CROSSWALK (6 / 21-3)
- SF - SITE FEATURES**
- SF-1 BENCH - STANDARD (10 / 21-5)
- SF-2 SWINGING BENCH (9 / 21-3)
- SF-3 PICNIC TABLE (8 / 21-3)
- LITTER BIN (10 / 21-3)
- SF-5 BIKE RACKS (8 / 21-3)
- SF-6 PARK SIGN (2 / 21-6)
- RIVER EGRESS LADDER (1 / 21-3)
- SF-8 BBQ GRILL AND ASH BIN (8 / 21-4)
- SF-9 RAILING - TYPE A (1 / 21-3)
- SF-10 RAILING - TYPE B (8 / 21-4)
- SF-11 EXISTING HANDRAIL - CLEANING AND PAINTING (7 / 21-5)
- SF-12 USCG LIFE RING (7 / 21-5)

- SW - SITE WALLS**
- SEE STRUCTURAL PLANS FOR DETAILS
- SW-1 RETAINING WALL (9 / 21-5)
- SW-2 SEAT WALL (9 / 21-5)
- SW-3 FLOOD PROTECTION WALL (9 / 21-5)
- SW-4 RAISED PLANTER WALL (9 / 21-5)
- SW-5 OUTCROPPING STONE WALL (9 / 21-5)
- SW-6 CURB WALL (9 / 21-5)

PROPOSED TRAIL NOTES:
 1. PROPOSED FINISHED GRADES TO MATCH EXISTING GRADES.
 2. TRAIL TO HAVE 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE. ADJACENT DRAINAGE PATTERNS SHALL BE MAINTAINED ON SITE. ENSURE POSITIVE WATER DRAINAGE OFF TRAIL.



PROPOSED TRAIL NOTES:
 1. PROPOSED FINISHED GRADES TO MATCH EXISTING GRADES.
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PROJECT MANAGER: JAMES WEAVER; DESIGNER: JAMES WEAVER; CHECKER: JAMES WEAVER; DATE: 10/23/24; SCALE: AS SHOWN; SHEET: L13-2



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
 5045 E. STANLEY ROAD
 FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
 IRON BELLE TRAIL
 LAYOUT, GRADING & LANDSCAPE - 1

ISSUED FOR: DATE: BY: JOB NO. GPA200301F
FB 10/23/24 SAL
SHEET L13-2

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KEY NOTES – REMOVAL

RCG – CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS – LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP – LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA – PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO – PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF – SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW – SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

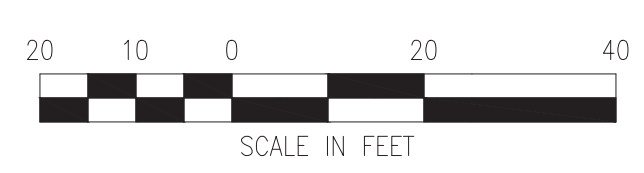
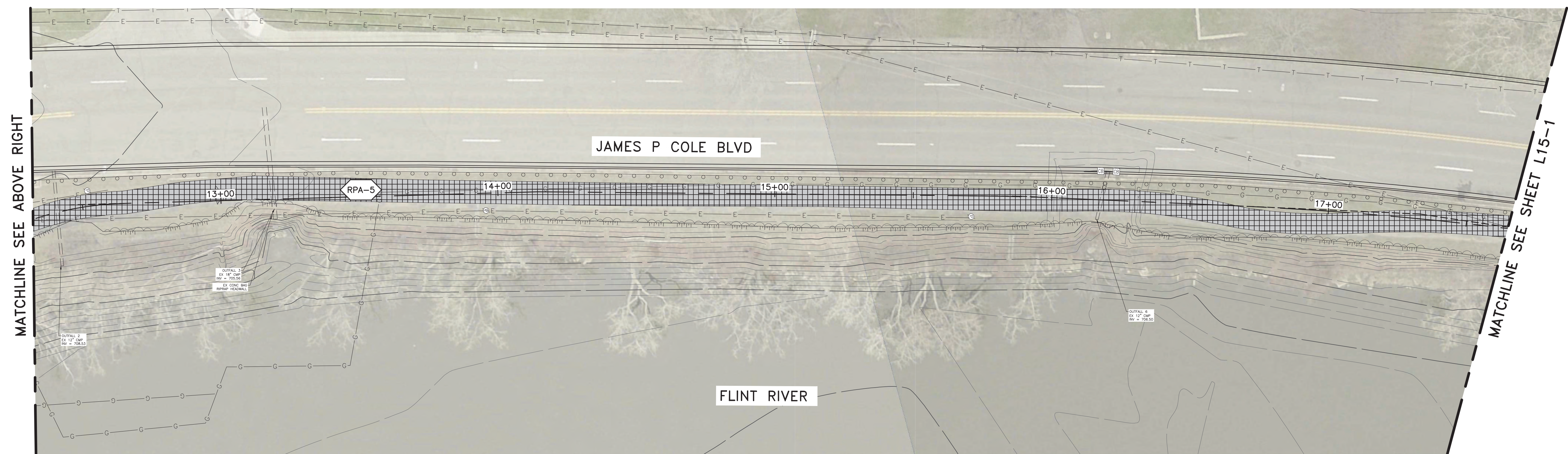
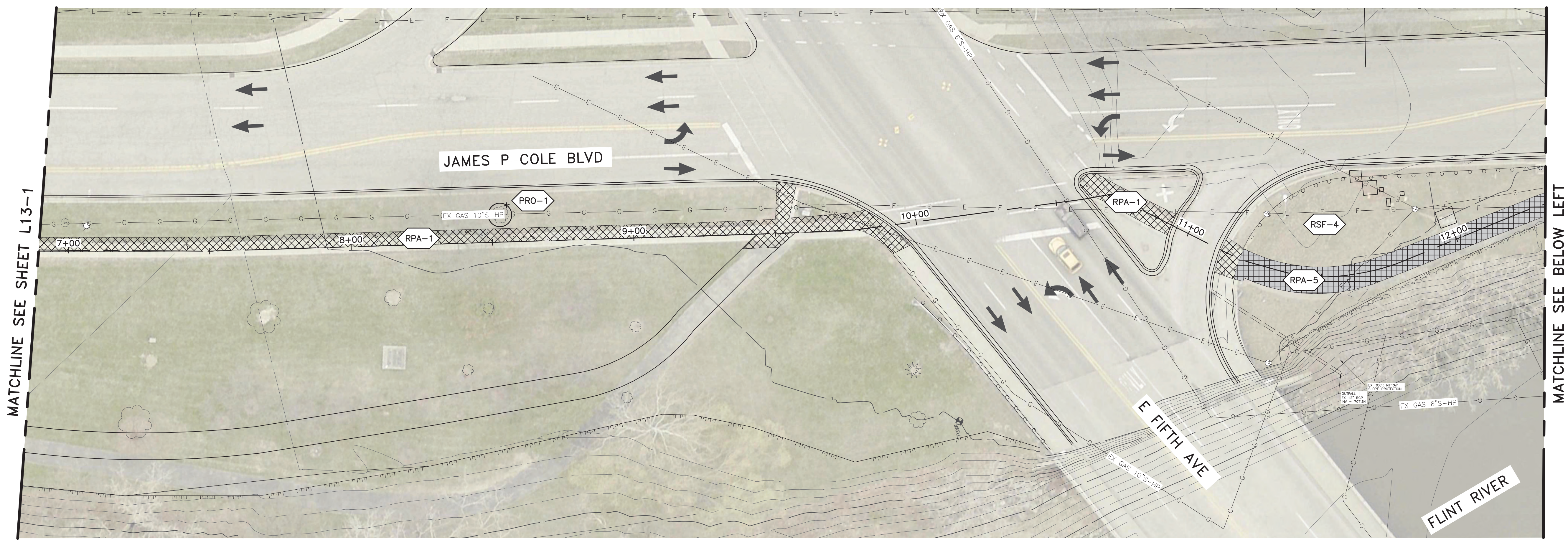
RSW-1 REMOVE RETAINING WALL

RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

RSW-4 REMOVE PLANTER WALL

RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5



PROJECT MANAGER: JAMES WEAVER, FIELD SUPERVISOR: JEFFREY WEAVER, DESIGNER: JAMES WEAVER, CHECKER: JAMES WEAVER, DATE PLOTTED: 10/24/2024, 9:07 AM BY WAHLEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
IRON BELLE TRAIL
EXISTING CONDITIONS & REMOVALS – 2

ISSUED FOR: FBI	DATE: 10/23/24	BY: SAL	JOB NO.: GPA200301F
SHEET			L14-1

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KEY NOTES - PROPOSED

CG - CURB AND GUTTER

- CG-1 STANDARD CURB AND GUTTER (11) (L21-1)
- CG-2 CURB RAMP (9) (L21-1)

LS - LANDSCAPE

- LS-1 PLANTER BED (3) (L23-1)
- LS-2 BIORETENTION BED (2) (L23-1)
- LANDSCAPE BOULDER (1) (L23-1)
- BARRIER BOULDER (2) (L23-1)
- LS-5 TREE GRATE (9) (L21-3)
- LS-6 RIVER ACCESS STONE (14) (L21-7)

PA - PAVING

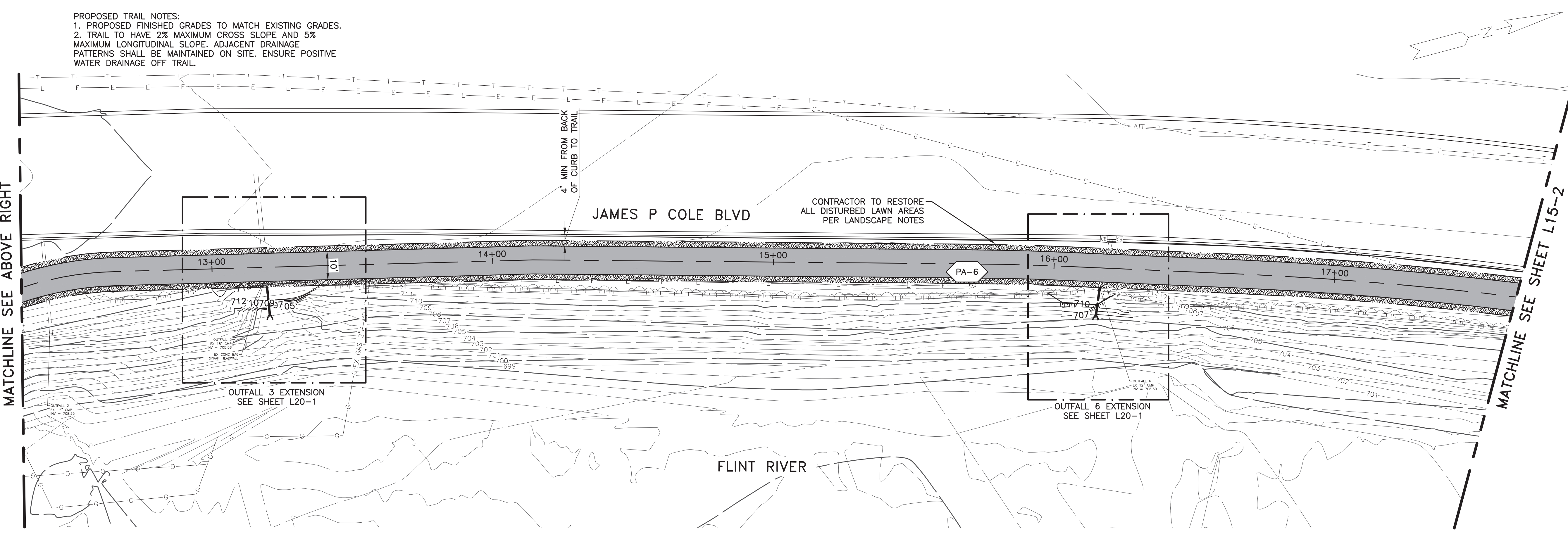
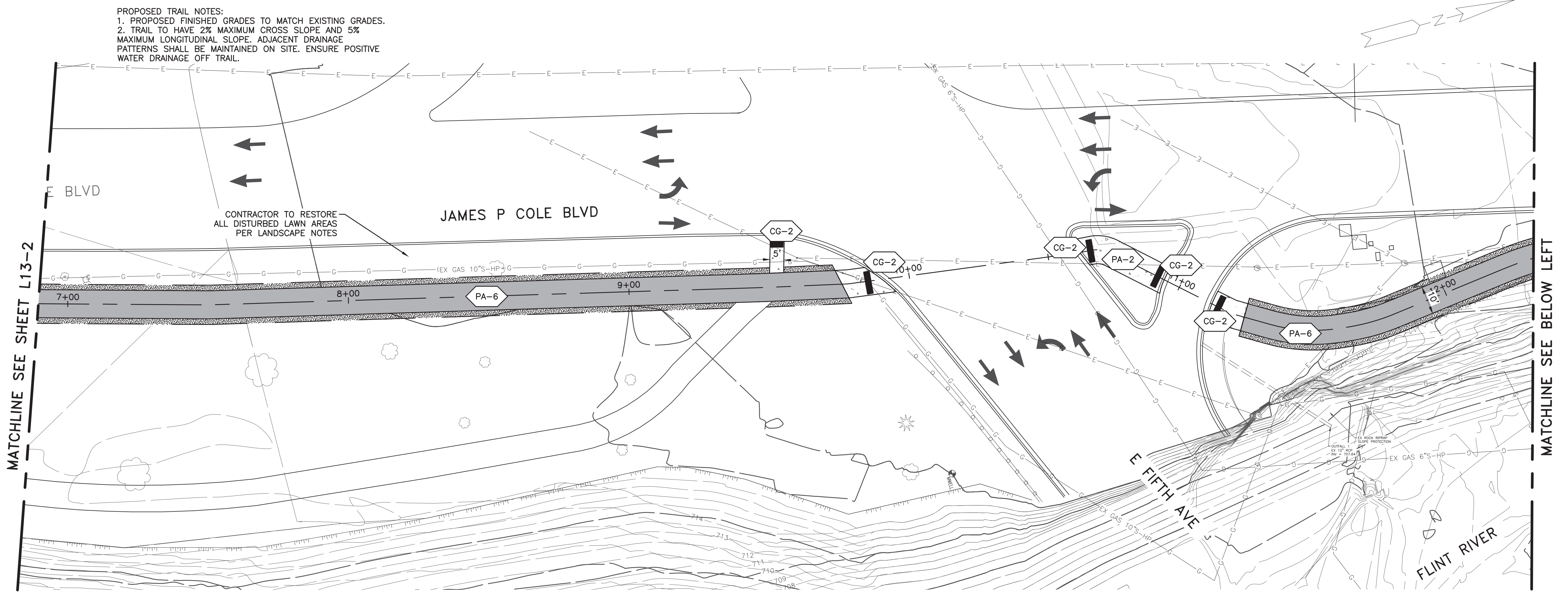
- PA-1 CONCRETE WALK 4" - STANDARD (3) (L21-1)
- PA-2 CONCRETE WALK 8" - REINFORCED (4) (L21-1)
- PA-3 CONCRETE WALK - EXPOSED AGGREGATE (6) (L21-1)
- PA-4 CONCRETE - COLORED (3) (L21-1)
- PA-5 ASPHALT ROADWAY (1) (L21-1)
- PA-6 ASPHALT TRAIL (2) (L21-1)
- PA-7 PERMEABLE PAVER (8) (L21-1)
- PA-8 STANDARD PAVER (7) (L21-1)
- PA-9 STAIRS - STANDARD (1) (L21-7)
- PA-10 STAIRS - CUSTOM (8) (L21-4)
- PA-11 STAIRS - PERRONS (8) (L21-4)
- PA-11 MEET EXISTING PAVEMENT (8) (L21-2)
- PA-10 CROSSWALK (8) (L21-2)

SF - SITE FEATURES

- SF-1 BENCH - STANDARD (6) (L21-3)
- SF-2 SWINGING BENCH (10) (L21-5)
- SF-3 PICNIC TABLE (9) (L21-3)
- LITTER BIN (8) (L21-3)
- SF-5 BIKE RACKS (10) (L21-3)
- SF-6 PARK SIGN (8) (L21-3)
- RIVER EGRESS LADDER (2) (L21-6)
- SF-8 BBQ GRILL AND ASH BIN (1) (L21-3)
- SF-9 RAILING - TYPE A (8) (L21-4)
- SF-10 RAILING - TYPE B (7) (L21-5)
- SF-11 EXISTING HANDRAIL - CLEANING AND PAINTING (7) (L21-5)
- SF-12 USCG LIFE RING (7) (L21-5)

SW - SITE WALLS
SEE STRUCTURAL PLANS FOR DETAILS

- SW-1 RETAINING WALL (9) (L21-5)
- SW-2 SEAT WALL (8) (L21-3)
- SW-3 FLOOD PROTECTION WALL (8) (L21-3)
- SW-4 RAISED PLANTER WALL (2) (L21-6)
- SW-5 OUTCROPPING STONE WALL (1) (L21-3)
- SW-6 CURB WALL (7) (L21-5)



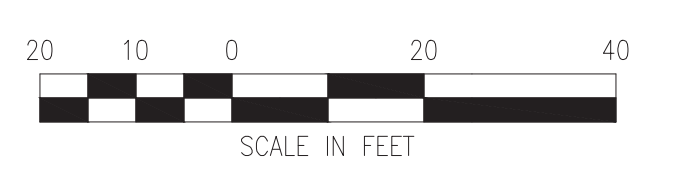
PROJECT MANAGER: JAMES RUSSELL; DESIGNER: JAMES RUSSELL; CHECKER: JAMES RUSSELL; DATE: 10/23/24

REV#	DATE	DESCRIPTION	BY

GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
IRON BELLE TRAIL
LAYOUT, GRADING & LANDSCAPE - 2

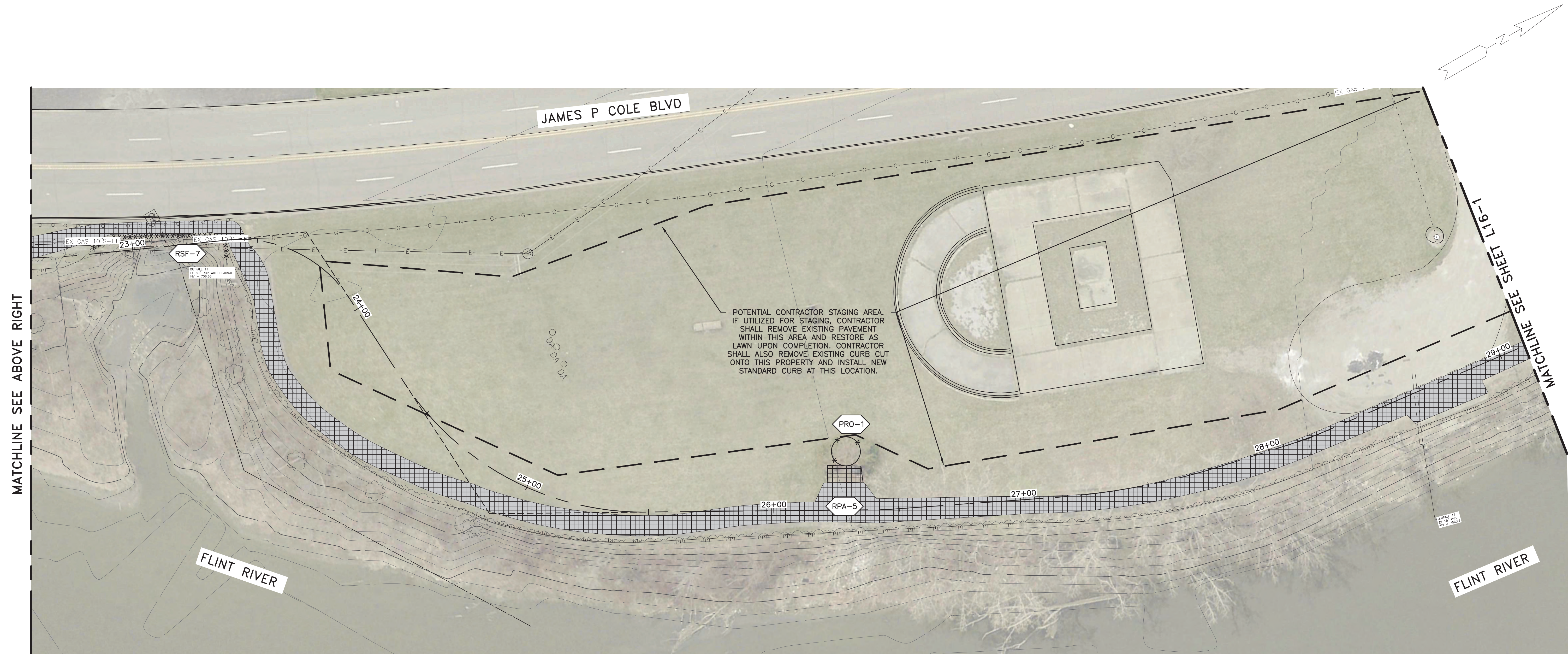
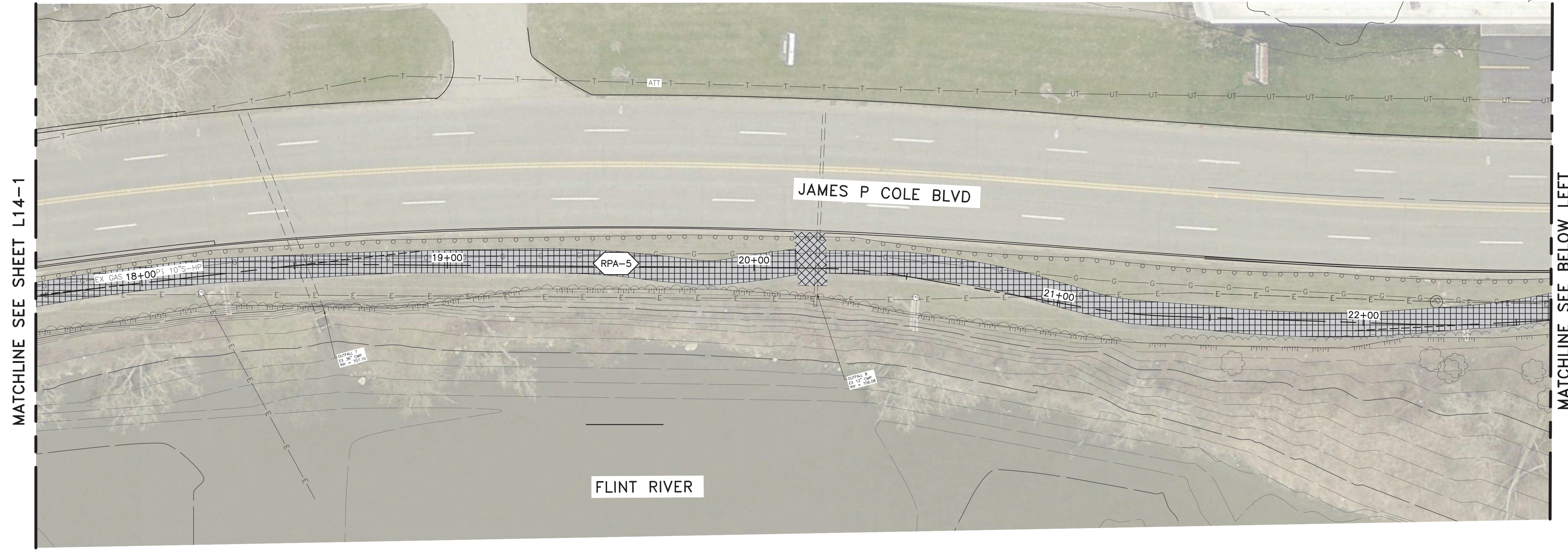
ISSUED FOR: DATE: BY: JOB NO. SHEET
IFB 10/23/24 SAL GPA200301F L14-2



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KEY NOTES - REMOVAL

- RCG - CURB AND GUTTER**
- RCG-1 REMOVE STANDARD CURB AND GUTTER
- RLS - LANDSCAPE**
- X REMOVE TREE
- RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS
- RLS-3 REMOVE AND STOCKPILE TOPSOIL
- RLP - LIGHTING AND POWER**
- RLP-1 REMOVE LIGHT POLE
- RPA - PAVING**
- RPA-1 REMOVE CONCRETE
- RPA-2 REMOVE STAIRS
- RPA-3 REMOVE PAVER
- RPA-4 SAWCUT PAVING
- RPA-5 REMOVE ASPHALT
- PRO - PROTECTION**
- PRO-1 PLACE TREE PROTECTION FENCE
- PRO-2 PROTECT EXISTING FEATURE
- RSF - SITE FEATURES**
- RSF-1 REMOVE BENCH OR TABLE
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- SEE STRUCTURAL PLANS FOR DETAILS
- RSW-1 REMOVE RETAINING WALL
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- RSW-4 REMOVE PLANTER WALL
- RSW-5 REMOVE CONCRETE WALL ABOVE GRADE - SEE DETAIL 11 ON L21-5



PROJECT MANAGER: JAMES WEAVER; FIELD PLANS: INTERIMWORKS; CIVIL: JAMES WEAVER; DESIGN: JAMES WEAVER; PLOT DATE: 10/23/24 9:10 AM BY: WAHLEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
IRON BELLE TRAIL
EXISTING CONDITIONS & REMOVALS - 3

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO.: GPA200301F
SCALE IN FEET			SHEET: L15-1

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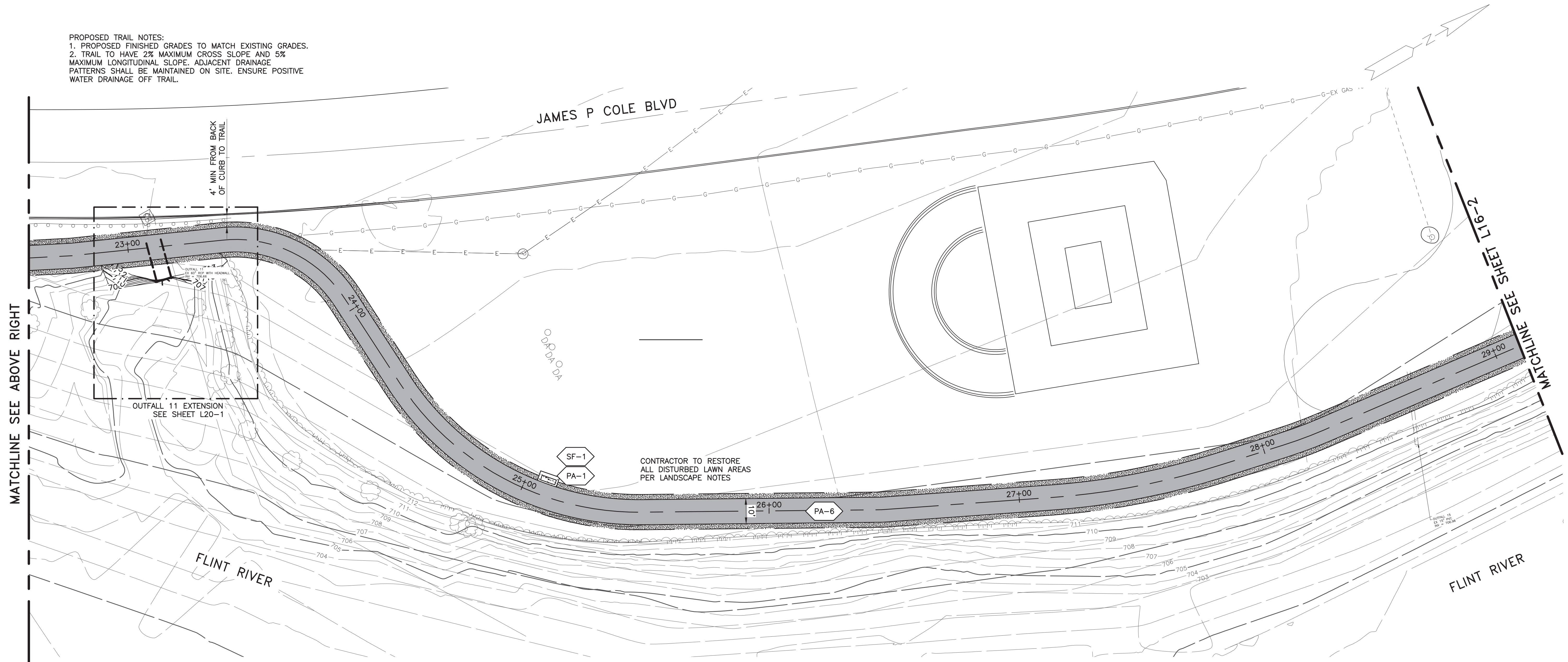
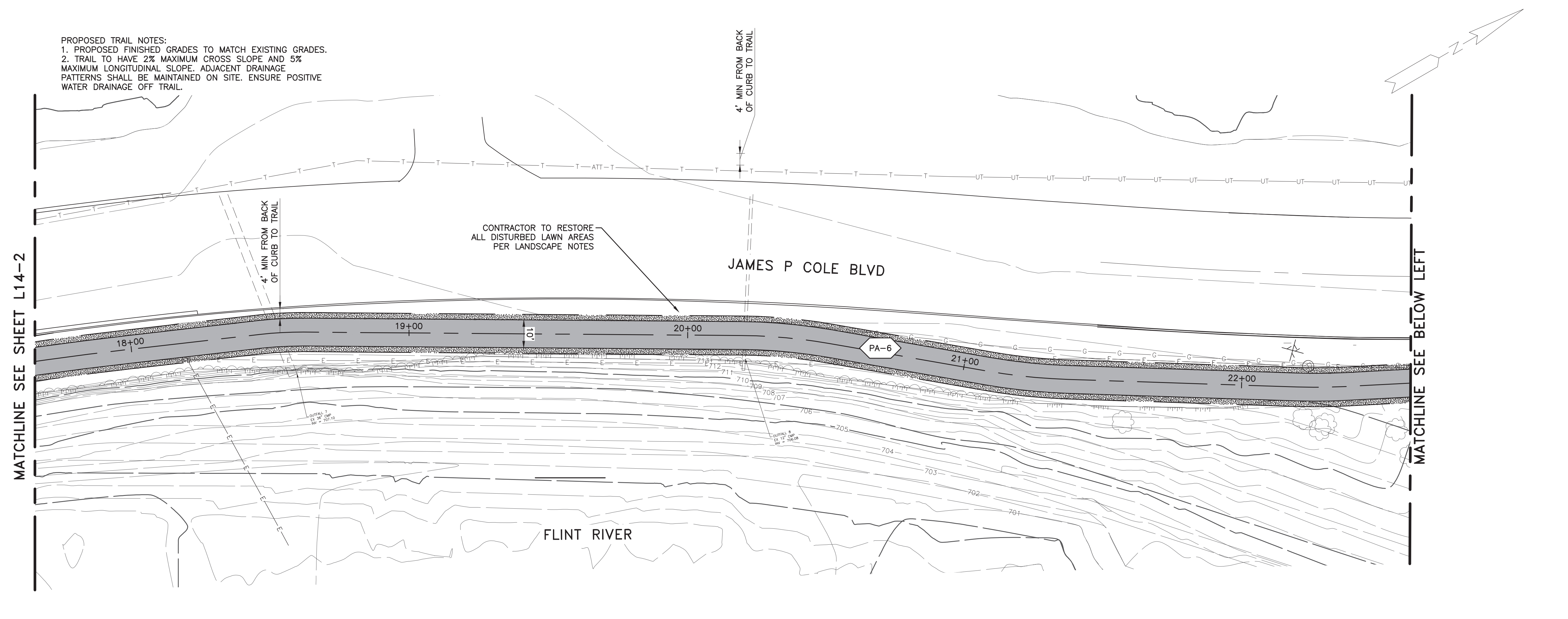
KEY NOTES – PROPOSED

- CG – CURB AND GUTTER**
- CG-1 STANDARD CURB AND GUTTER (11 / L21-1)
- CG-2 CURB RAMP (9 / L21-1)
- LS – LANDSCAPE**
- LS-1 PLANTER BED (3 / L23-1)
- LS-2 BIORETENTION BED (1 / L23-1)
- LANDSCAPE BOULDER (2 / L23-1)
- BARRIER BOULDER (9 / L21-3)
- LS-5 TREE GRATE (14 / L21-1)
- LS-6 RIVER ACCESS STONE (3 / L21-1)
- PA – PAVING**
- PA-1 CONCRETE WALK 4"– STANDARD (4 / L21-1)
- PA-2 CONCRETE WALK 8"– REINFORCED (6 / L21-1)
- PA-3 CONCRETE WALK – EXPOSED AGGREGATE (3 / L21-1)
- PA-4 CONCRETE – COLORED (1 / L21-1)
- PA-5 ASPHALT ROADWAY (2 / L21-1)
- PA-6 ASPHALT TRAIL (8 / L21-1)
- PA-7 PERMEABLE PAVER (7 / L21-1)
- PA-8 STANDARD PAVER (1 / L21-7)
- PA-9 STAIRS – STANDARD (8 / L21-4)
- PA-10 STAIRS – CUSTOM (8 / L21-2)
- PA-11 STAIRS – PERRONS (8 / L21-2)
- PA-11 MEET EXISTING PAVEMENT (8 / L21-2)
- PA-10 CROSSWALK (7 / L21-2)
- SF – SITE FEATURES**
- SF-1 BENCH – STANDARD (6 / L21-3)
- SF-2 SWINGING BENCH (10 / L21-5)
- SF-3 PICNIC TABLE (9 / L21-3)
- LITTER BIN (8 / L21-3)
- SF-5 BIKE RACKS (10 / L21-3)
- SF-6 PARK SIGN (8 / L21-3)
- RIVER EGRESS LADDER (2 / L21-6)
- SF-8 BBQ GRILL AND ASH BIN (1 / L21-3)
- SF-9 RAILING – TYPE A (8 / L21-4)
- SF-10 RAILING – TYPE B (7 / L21-5)
- SF-11 EXISTING HANDRAIL – CLEANING AND PAINTING (7 / L21-5)
- SF-12 USCG LIFE RING (7 / L21-5)

- SW – SITE WALLS**
SEE STRUCTURAL PLANS FOR DETAILS
- SW-1 RETAINING WALL
- SW-2 SEAT WALL
- SW-3 FLOOD PROTECTION WALL
- SW-4 RAISED PLANTER WALL
- SW-5 OUTCROPPING STONE WALL (9 / L21-5)
- SW-6 CURB WALL

PROPOSED TRAIL NOTES:
 1. PROPOSED FINISHED GRADES TO MATCH EXISTING GRADES.
 2. TRAIL TO HAVE 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE. ADJACENT DRAINAGE PATTERNS SHALL BE MAINTAINED ON SITE. ENSURE POSITIVE WATER DRAINAGE OFF TRAIL.

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PROJECT MANAGER: JAMES WEAVER; CIVIL ENGINEER: JAMES WEAVER; DESIGNER: JAMES WEAVER; CHECKER: JAMES WEAVER; DATE: 10/23/24

REV#	DATE	DESCRIPTION	BY

GENESEE COUNTY PARKS & REC
 5045 E. STANLEY ROAD
 FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
 IRON BELLE TRAIL
 LAYOUT, GRADING & LANDSCAPE – 3

ISSUED FOR: DATE: BY: JOB NO.
 (FB) 10/23/24 SAL GPA200301F
 SHEET
L15-2

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KEY NOTES – REMOVAL

RCG – CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS – LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP – LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA – PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO – PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF – SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW – SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

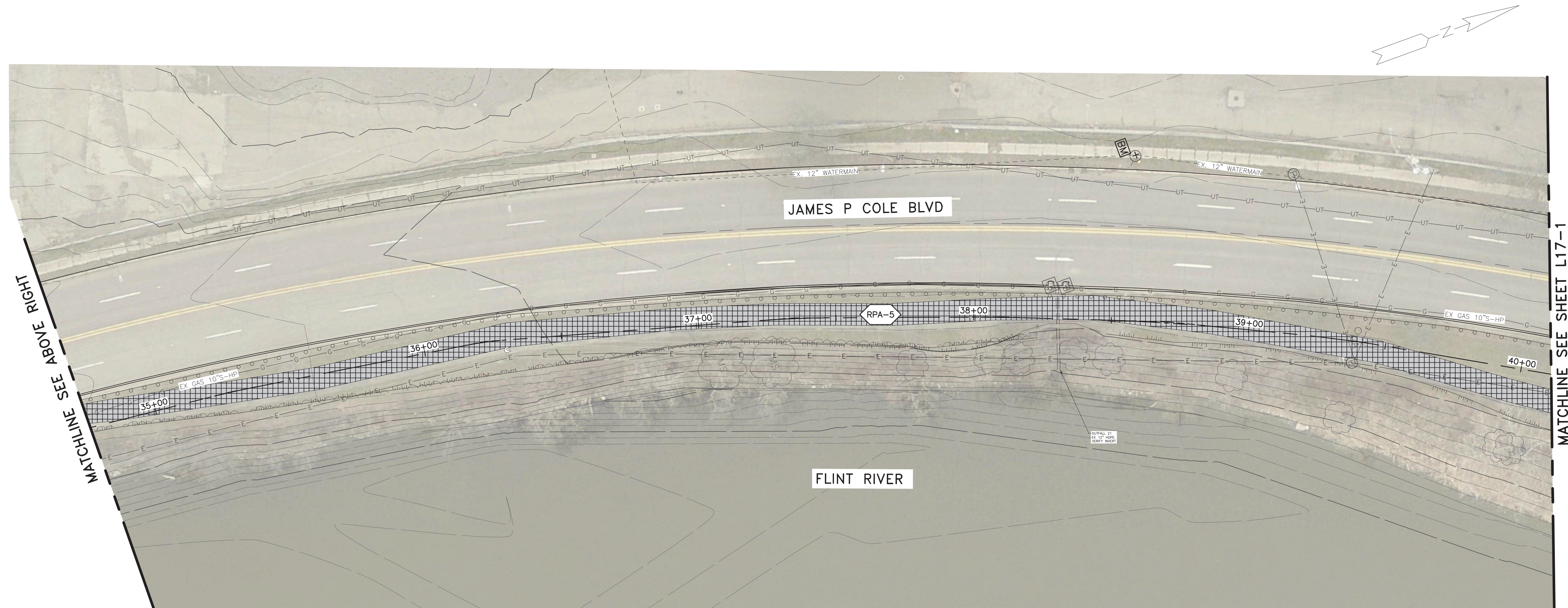
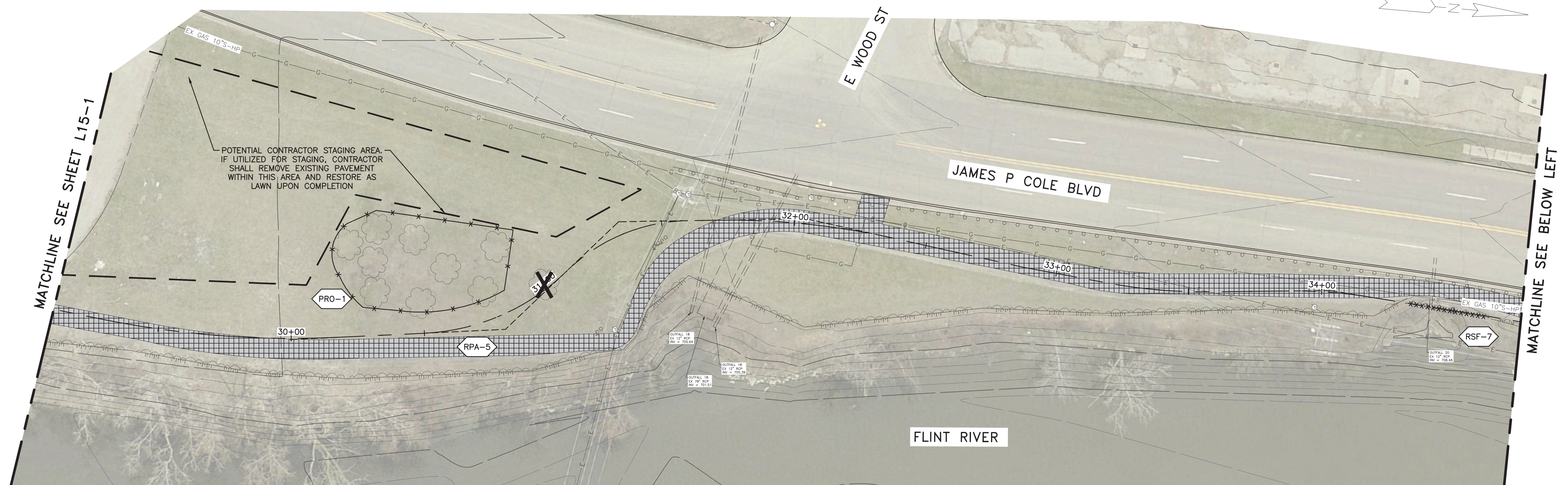
RSW-1 REMOVE RETAINING WALL

RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

RSW-4 REMOVE PLANTER WALL

RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5



PROJECT MANAGER: JAMES WEAVER, CIVIL ENGINEER, LICENSE NO. 30013, DATE PLOTTED: 10/24/2024, 9:14 AM BY WAHLEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
IRON BELLE TRAIL
EXISTING CONDITIONS & REMOVALS – 4

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO. GPA200301F
SCALE IN FEET			SHEET L16-1



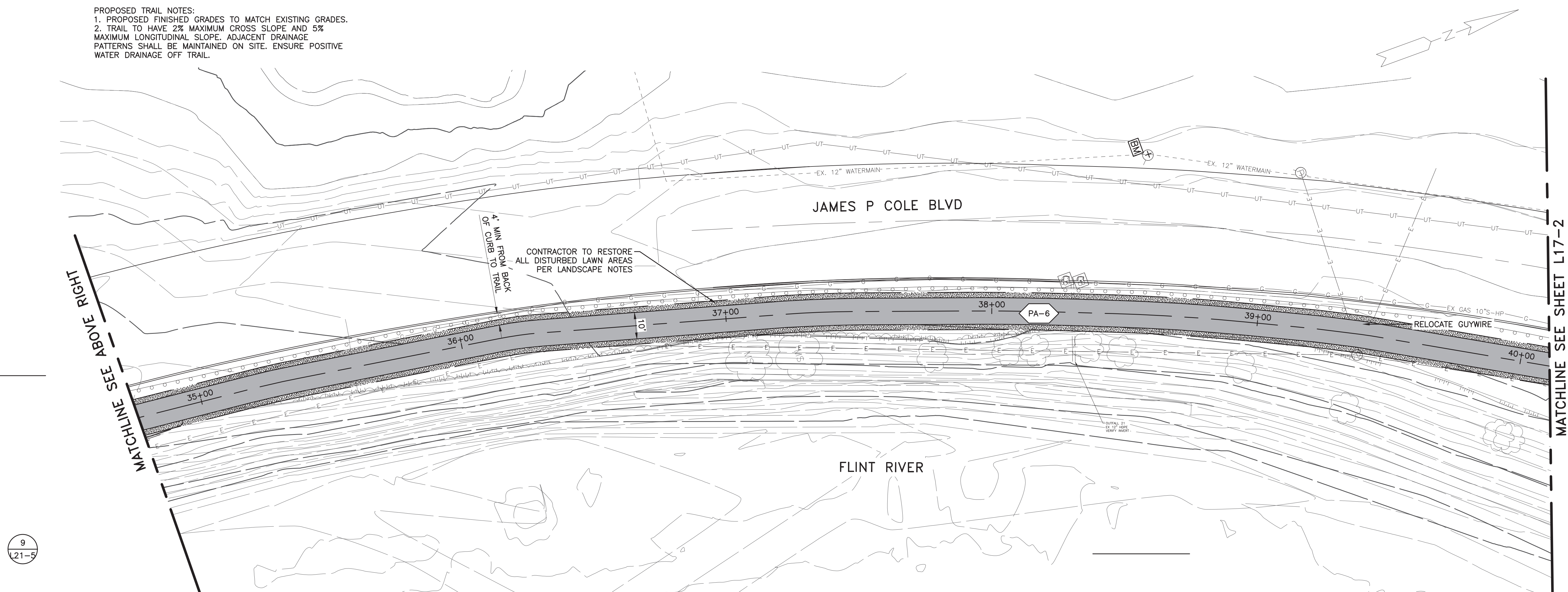
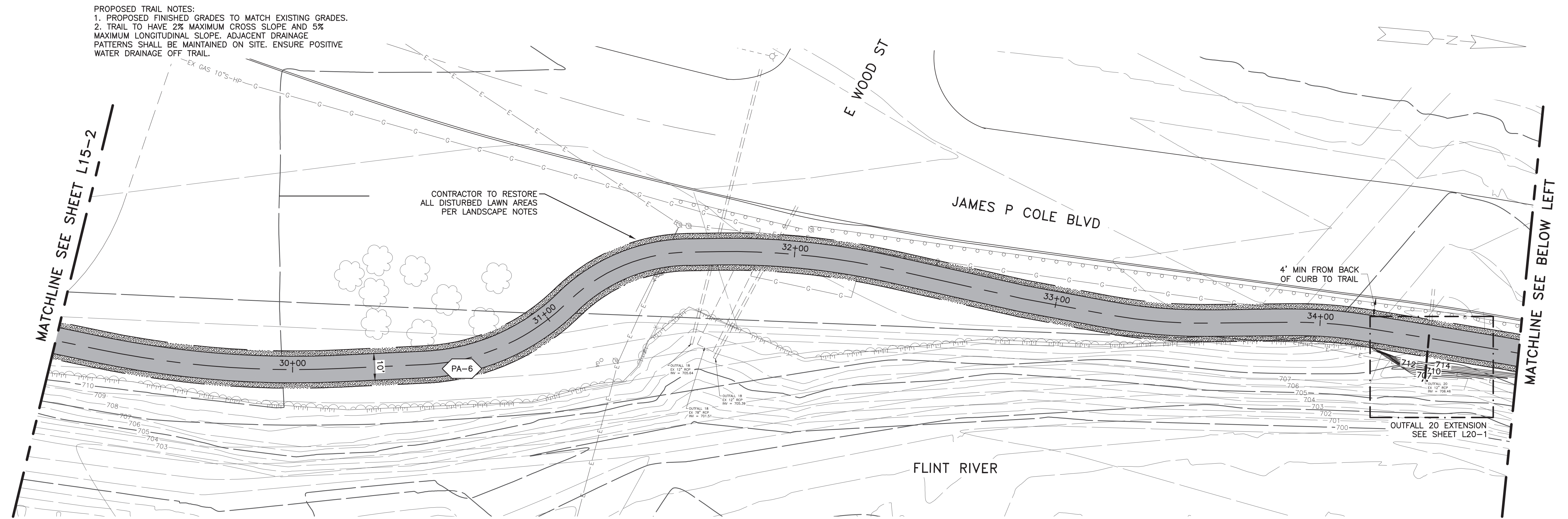
© 2024 Iron Belle Trail, Inc. FLINT RIVER RESTORATION

KEY NOTES – PROPOSED

CG – CURB AND GUTTER		
CG-1 STANDARD CURB AND GUTTER	11	L21-1
CG-2 CURB RAMP	9	L21-1
LS – LANDSCAPE		
LS-1 PLANTER BED		
LS-2 BIORETENTION BED	3	L23-1
LANDSCAPE BOULDER	1	L23-1
BARRIER BOULDER	2	L23-1
LS-5 TREE GRATE	9	L21-3
LS-6 RIVER ACCESS STONE	14	L21-1
PA – PAVING		
PA-1 CONCRETE WALK 4" – STANDARD	3	L21-1
PA-2 CONCRETE WALK 8" – REINFORCED	4	L21-1
PA-3 CONCRETE WALK – EXPOSED AGGREGATE	6	L21-1
PA-4 CONCRETE – COLORED	3	L21-1
PA-5 ASPHALT ROADWAY	1	L21-1
PA-6 ASPHALT TRAIL	2	L21-1
PA-7 PERMEABLE PAVER	8	L21-1
PA-8 STANDARD PAVER	7	L21-1
PA-9 STAIRS – STANDARD	1	L21-7
PA-10 STAIRS – CUSTOM		
PA-11 STAIRS – PERRONS	8	L21-4
PA-11 MEET EXISTING PAVEMENT		
PA-10 CROSSWALK	8	L21-2
SF – SITE FEATURES		
SF-1 BENCH – STANDARD	6	L21-3
SF-2 SWINGING BENCH	10	L21-5
SF-3 PICNIC TABLE	9	L21-3
LITTER BIN	8	L21-3
SF-5 BIKE RACKS	10	L21-3
SF-6 PARK SIGN		
RIVER EGRESS LADDER	8	L21-3
SF-8 BBQ GRILL AND ASH BIN	2	L21-6
SF-9 RAILING – TYPE A	1	L21-3
SF-10 RAILING – TYPE B	8	L21-4
SF-11 EXISTING HANDRAIL – CLEANING AND PAINTING		
SF-12 USCG LIFE RING	7	L21-5

SW – SITE WALLS
SEE STRUCTURAL PLANS FOR DETAILS

SW-1	RETAINING WALL	
SW-2	SEAT WALL	
SW-3	FLOOD PROTECTION WALL	
SW-4	RAISED PLANTER WALL	
SW-5	OUTCROPPING STONE WALL	9
SW-6	CURB WALL	L21-5



PROPOSED TRAIL NOTES:
1. PROPOSED FINISHED GRADES TO MATCH EXISTING GRADES.
2. TRAIL TO HAVE 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE. ADJACENT DRAINAGE PATTERNS SHALL BE MAINTAINED ON SITE. ENSURE POSITIVE WATER DRAINAGE OFF TRAIL.

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PROJECT MANAGER: JAMES WEAVER; DESIGNER: JAMES WEAVER; CHECKER: JAMES WEAVER; DATE: 10/23/24; SCALE: AS SHOWN; SHEET: L16-2; DRAWING NO: GPA200301F



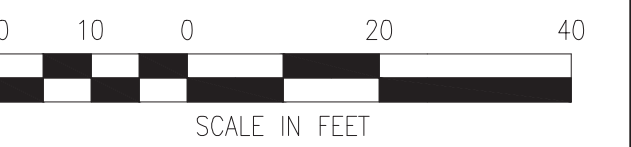
REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
IRON BELLE TRAIL
LAYOUT, GRADING & LANDSCAPE – 4

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SHEET			L16-2



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KEY NOTES – REMOVAL

RCG – CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS – LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP – LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA – PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO – PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF – SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW – SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

RSW-1 REMOVE RETAINING WALL

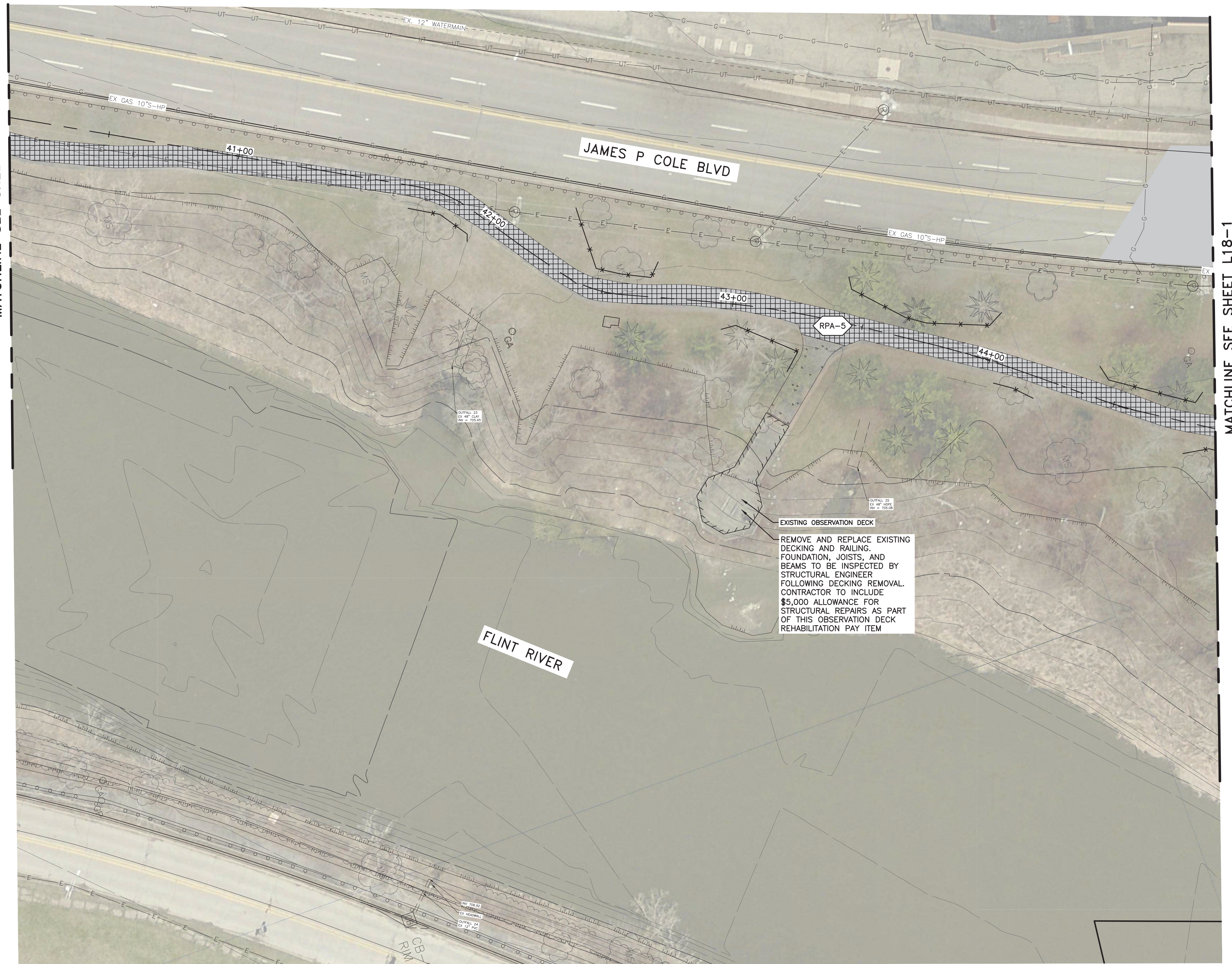
RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

RSW-4 REMOVE PLANTER WALL

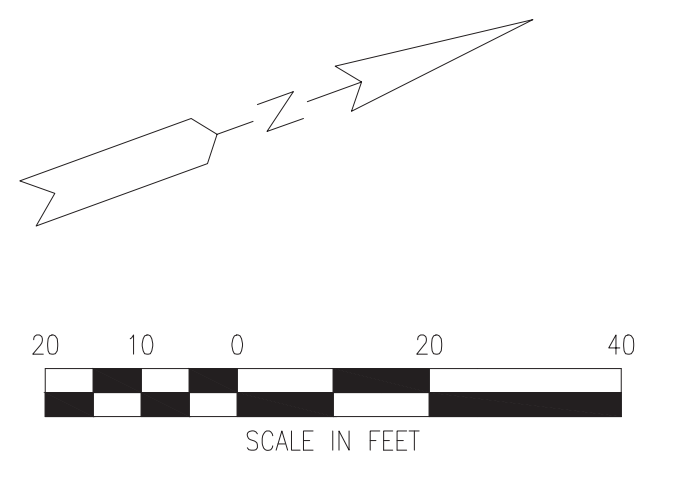
RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5

MATCHLINE SEE SHEET L16-1



MATCHLINE SEE SHEET L18-1

EXISTING OBSERVATION DECK
REMOVE AND REPLACE EXISTING DECKING AND RAILING. FOUNDATION, JOISTS, AND BEAMS TO BE INSPECTED BY STRUCTURAL ENGINEER FOLLOWING DECKING REMOVAL. CONTRACTOR TO INCLUDE \$5,000 ALLOWANCE FOR STRUCTURAL REPAIRS AS PART OF THIS OBSERVATION DECK REHABILITATION PAY ITEM



PROJECT MANAGER: JAMES WEAVER, FIELD SUPERVISOR: NICHOLE WEAVER, DESIGNER: JAMES WEAVER, CHECKER: JAMES WEAVER, DATE PLOTTED: 10/24/2024, 9:17 AM BY WAHLEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
IRON BELLE TRAIL
EXISTING CONDITIONS & REMOVALS – 5

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO.: GPA200301F
SHEET			L17-1

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KEY NOTES – PROPOSED

CG – CURB AND GUTTER

- CG-1 STANDARD CURB AND GUTTER (11 / 121-1)
- CG-2 CURB RAMP (9 / 121-1)

LS – LANDSCAPE

- LS-1 PLANTER BED (3 / 123-1)
- LS-2 BIORETENTION BED (1 / 123-1)
- LS-3 LANDSCAPE BOULDER (2 / 123-1)
- LS-4 BARRIER BOULDER (9 / 121-3)
- LS-5 TREE GRATE (14 / 121-1)
- LS-6 RIVER ACCESS STONE (3 / 121-1)

PA – PAVING

- PA-1 CONCRETE WALK 4"– STANDARD (3 / 121-1)
- PA-2 CONCRETE WALK 8"– REINFORCED (4 / 121-1)
- PA-3 CONCRETE WALK – EXPOSED AGGREGATE (6 / 121-1)
- PA-4 CONCRETE – COLORED (3 / 121-1)
- PA-5 ASPHALT ROADWAY (1 / 121-1)
- PA-6 ASPHALT TRAIL (2 / 121-1)
- PA-7 PERMEABLE PAVER (8 / 121-1)
- PA-8 STANDARD PAVER (7 / 121-1)
- PA-9 STAIRS – STANDARD (1 / 121-7)
- PA-10 STAIRS – CUSTOM (8 / 121-4)
- PA-11 STAIRS – PERRONS (8 / 121-4)
- PA-12 MEET EXISTING PAVEMENT (8 / 121-2)
- PA-10 CROSSWALK (8 / 121-2)

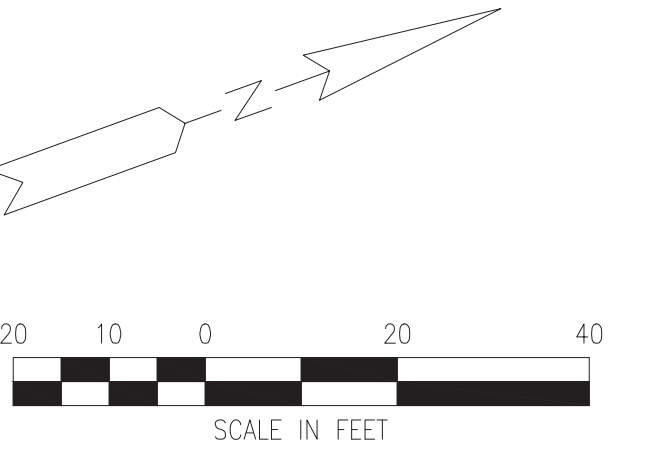
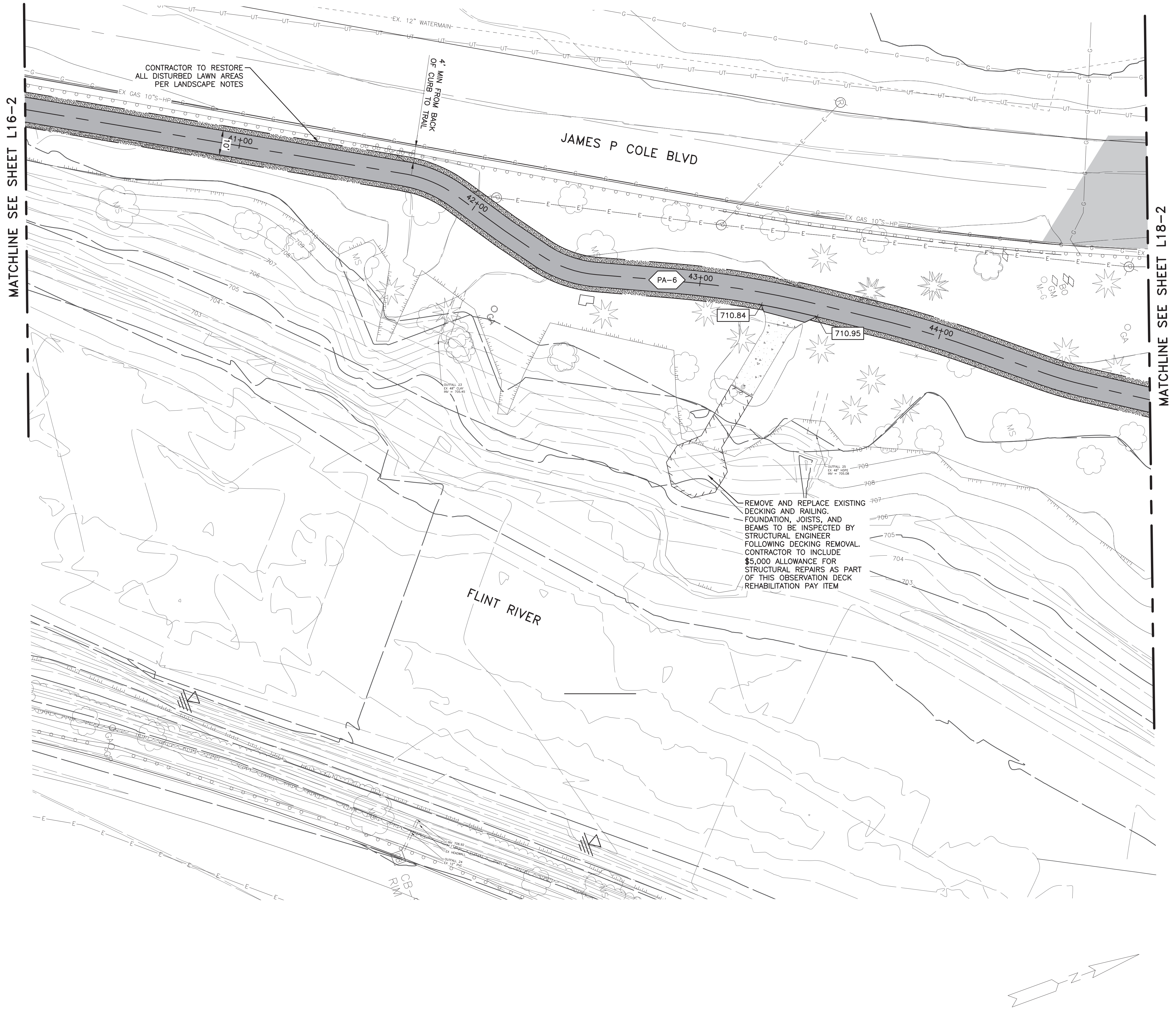
SF – SITE FEATURES

- SF-1 BENCH – STANDARD (6 / 121-3)
- SF-2 SWINGING BENCH (10 / 121-5)
- SF-3 PICNIC TABLE (9 / 121-3)
- SF-4 LITTER BIN (8 / 121-3)
- SF-5 BIKE RACKS (10 / 121-3)
- SF-6 PARK SIGN (8 / 121-3)
- SF-7 RIVER EGRESS LADDER (2 / 121-6)
- SF-8 BBQ GRILL AND ASH BIN (1 / 121-3)
- SF-9 RAILING – TYPE A (8 / 121-4)
- SF-10 RAILING – TYPE B (7 / 121-5)
- SF-11 EXISTING HANDRAIL – CLEANING AND PAINTING (8 / 121-4)
- SF-12 USCG LIFE RING (7 / 121-5)

SW – SITE WALLS
SEE STRUCTURAL PLANS FOR DETAILS

- SW-1 RETAINING WALL (9 / 121-5)
- SW-2 SEAT WALL (8 / 121-3)
- SW-3 FLOOD PROTECTION WALL (10 / 121-3)
- SW-4 RAISED PLANTER WALL (8 / 121-3)
- SW-5 OUTCROPPING STONE WALL (2 / 121-6)
- SW-6 CURB WALL (1 / 121-3)

PROPOSED TRAIL NOTES:
1. PROPOSED FINISHED GRADES TO MATCH EXISTING GRADES.
2. TRAIL TO HAVE 2% MAXIMUM CROSS SLOPE AND 5% MAXIMUM LONGITUDINAL SLOPE. ADJACENT DRAINAGE PATTERNS SHALL BE MAINTAINED ON SITE. ENSURE POSITIVE WATER DRAINAGE OFF TRAIL.



PROJECT MANAGER: JAMES WEAVER; DESIGNER: JAMES WEAVER; CHECKER: JAMES WEAVER; DATE: 10/23/24; SCALE: AS SHOWN; SHEET: L17-2; JOB NO: GPA200301F



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
IRON BELLE TRAIL
LAYOUT, GRADING & LANDSCAPE – 5

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SHEET			L17-2

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KEY NOTES – REMOVAL

RCG – CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS – LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP – LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA – PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO – PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF – SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW – SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

RSW-1 REMOVE RETAINING WALL

RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

RSW-4 REMOVE PLANTER WALL

RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5



MATCHLINE SEE SHEET L17-1

MATCHLINE SEE SHEET L19-1

PROJECT MANAGER: JAMES WEAVER, CIVIL ENGINEER, LICENSE NO. 30017, REGISTERED PROFESSIONAL ENGINEER, STATE OF MICHIGAN, EXPIRES 12/31/2024. PLOTTED: 10/24/2024, 9:21 AM BY WAHLEY, RUSSELL



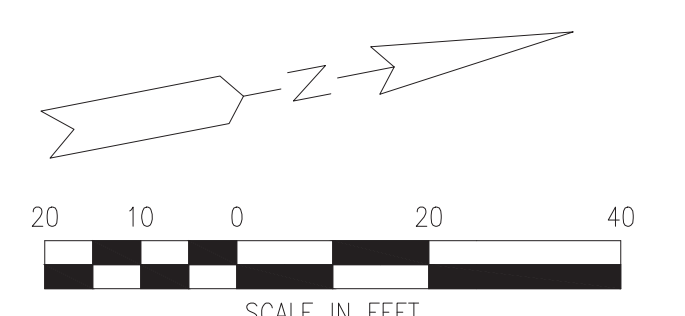
REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
VIETNAM VETERANS PARK
EXISTING CONDITIONS AND REMOVALS

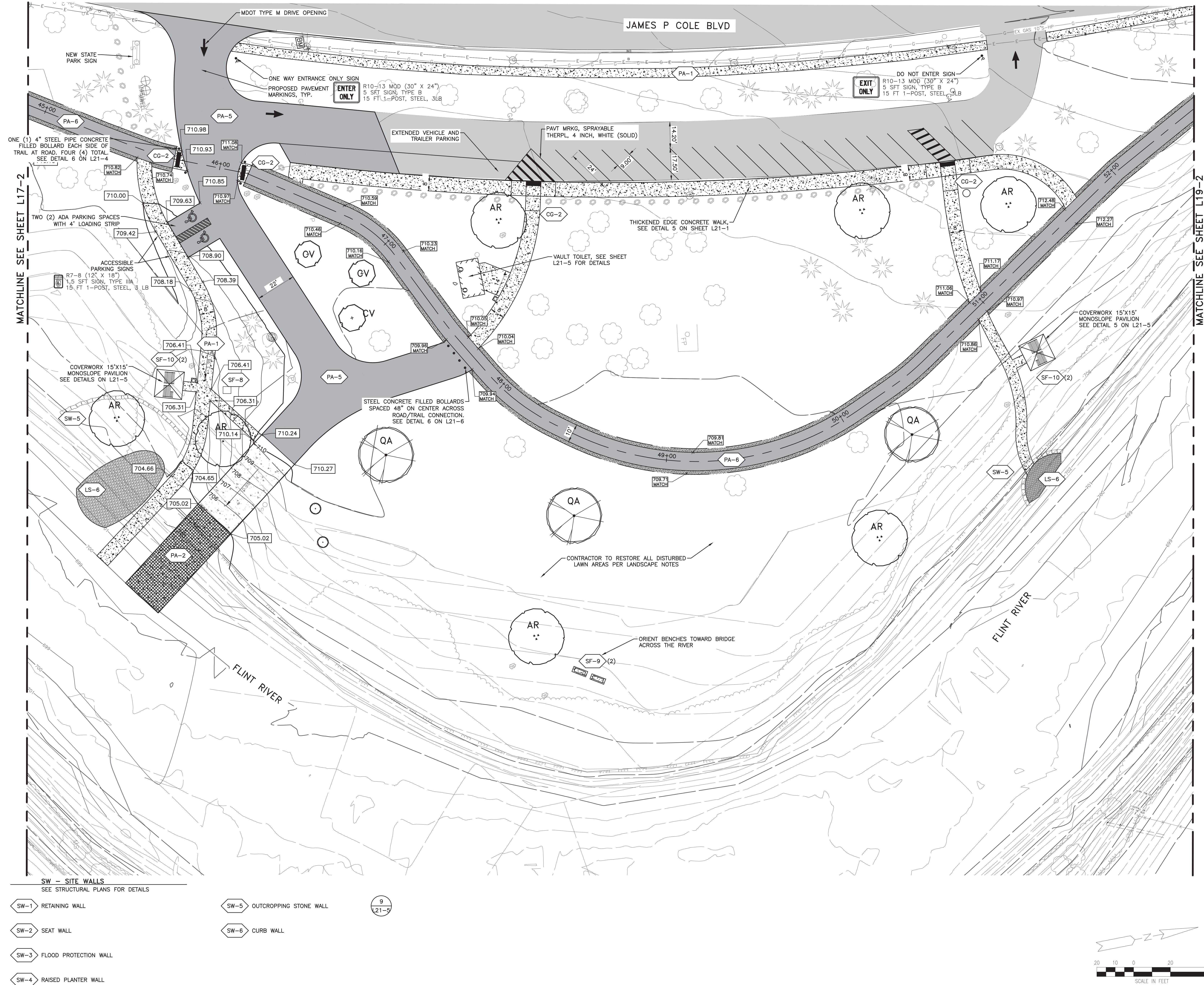
ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO. GPA200301F
SHEET			L18-1



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KEY NOTES – PROPOSED

- CG – CURB AND GUTTER**
- CG-1 STANDARD CURB AND GUTTER (11) (L21-1)
- CG-2 CURB RAMP (9) (L21-1)
- LS – LANDSCAPE**
- LS-1 PLANTER BED (3) (L23-1)
- LS-2 BIORETENTION BED (1) (L23-1)
- LANDSCAPE BOULDER (2) (L23-1)
- BARRIER BOULDER (9) (L21-3)
- LS-5 TREE GRATE (14) (L21-1)
- LS-6 RIVER ACCESS STONE
- PA – PAVING**
- PA-1 CONCRETE WALK 4" – STANDARD (3) (L21-1)
- PA-2 CONCRETE WALK 8" – REINFORCED (4) (L21-1)
- PA-3 CONCRETE WALK – EXPOSED AGGREGATE (6) (L21-1)
- PA-4 CONCRETE – COLORED (3) (L21-1)
- PA-5 ASPHALT ROADWAY (1) (L21-1)
- PA-6 ASPHALT TRAIL (2) (L21-1)
- PA-7 PERMEABLE PAVER (8) (L21-1)
- PA-8 STANDARD PAVER (7) (L21-1)
- PA-9 STAIRS – STANDARD (1) (L21-1)
- PA-10 STAIRS – CUSTOM (8) (L21-4)
- PA-11 STAIRS – PERRONS (8) (L21-4)
- PA-11 MEET EXISTING PAVEMENT (8) (L21-2)
- PA-10 CROSSWALK (8) (L21-2)
- SF – SITE FEATURES**
- SF-1 BENCH – STANDARD (6) (L21-3)
- SF-2 SWINGING BENCH (10) (L21-5)
- SF-3 PICNIC TABLE (9) (L21-3)
- LITTER BIN (8) (L21-3)
- SF-5 BIKE RACKS (10) (L21-3)
- SF-6 PARK SIGN (8) (L21-3)
- RIVER EGRESS LADDER (8) (L21-3)
- SF-8 BBQ GRILL AND ASH BIN (2) (L21-6)
- SF-9 RAILING – TYPE A (1) (L21-3)
- SF-10 RAILING – TYPE B (8) (L21-4)
- SF-11 EXISTING HANDRAIL – CLEANING AND PAINTING (7) (L21-5)
- SF-12 USCG LIFE RING
- SW-1 RETAINING WALL (9) (L21-5)
- SW-2 SEAT WALL (9) (L21-5)
- SW-3 FLOOD PROTECTION WALL (9) (L21-5)
- SW-4 RAISED PLANTER WALL (9) (L21-5)
- SW-5 OUTCROPPING STONE WALL (9) (L21-5)
- SW-6 CURB WALL (9) (L21-5)



PROJECT MANAGER: JAMES WHALEY, INC. (JW) DATE: 10/23/24 9:23 AM BY: WHALEY, RUSSELL
 CIVIL ENGINEER: JAMES WHALEY, INC. (JW) DATE: 10/23/24 9:23 AM BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
 5045 E. STANLEY ROAD
 FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
 VIETNAM VETERANS PARK
 LAYOUT, GRADING & LANDSCAPE

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SCALE IN FEET			SHEET: L18-2



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KEY NOTES – REMOVAL

RCG – CURB AND GUTTER

RCG-1 REMOVE STANDARD CURB AND GUTTER

RLS – LANDSCAPE

X REMOVE TREE

RLS-2 REMOVE UNDERSTORY VEGETATION/LANDSCAPE BED PLANTINGS

RLS-3 REMOVE AND STOCKPILE TOPSOIL

RLP – LIGHTING AND POWER

RLP-1 REMOVE LIGHT POLE

RPA – PAVING

RPA-1 REMOVE CONCRETE

RPA-2 REMOVE STAIRS

RPA-3 REMOVE PAVER

RPA-4 SAWCUT PAVING

RPA-5 REMOVE ASPHALT

PRO – PROTECTION

PRO-1 PLACE TREE PROTECTION FENCE

PRO-2 PROTECT EXISTING FEATURE

RSF – SITE FEATURES

RSF-1 REMOVE BENCH OR TABLE

RSF-2 REMOVE RAILING

RSF-3 REMOVE BOLLARD

RSF-4 REMOVE SIGN

RSF-5 REMOVE POST AND ROPE/CHAIN RAILING

RSF-6 REMOVE GUARDRAIL

RSF-7 REMOVE CHAIN LINK FENCE

RSF-8 REMOVE RIVER EGRESS LADDER

RSW – SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

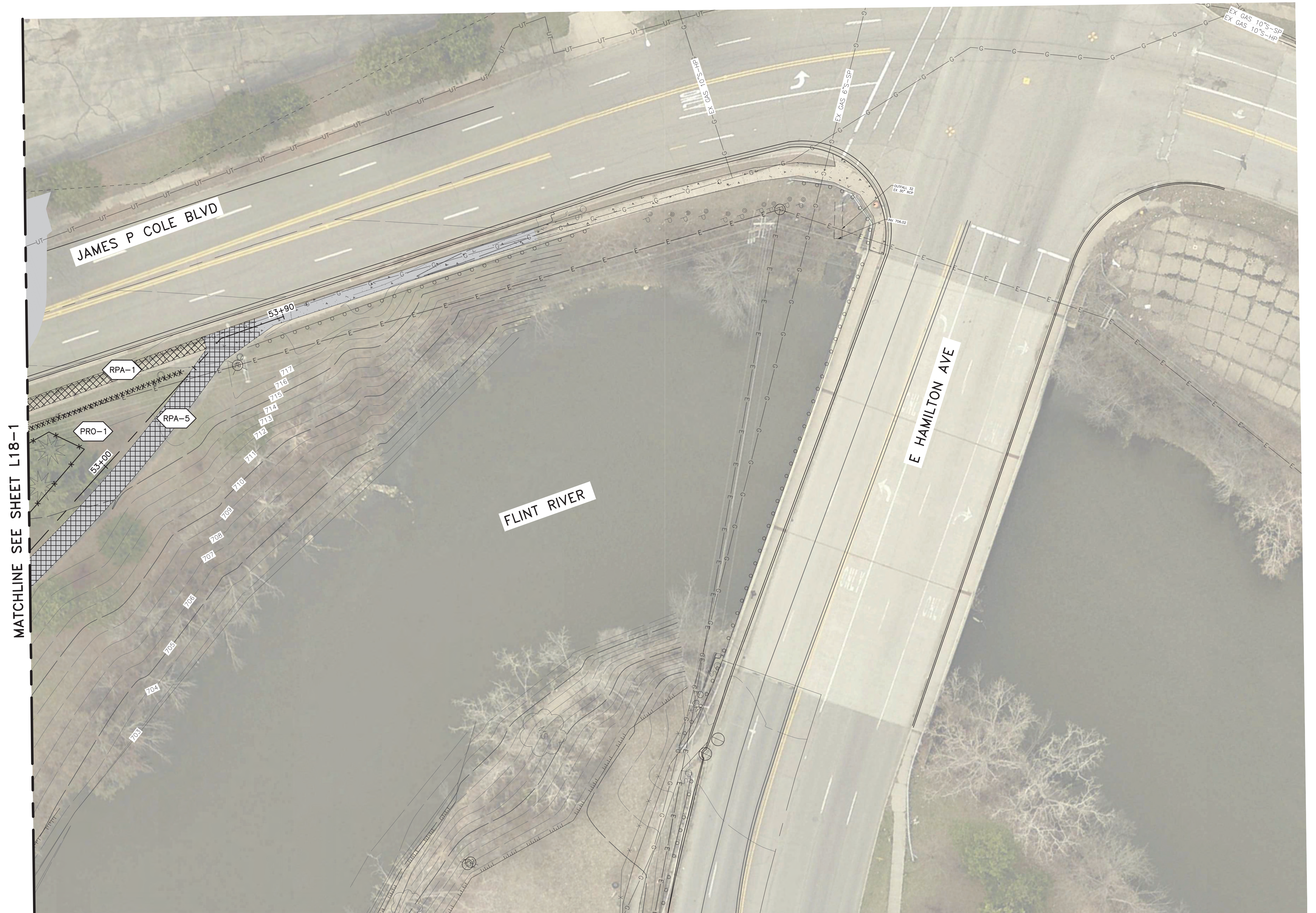
RSW-1 REMOVE RETAINING WALL

RSW-2 REMOVE SEAT OR SITE WALL

RSW-3 CUT AND REMOVE FLOOD PROTECTION WALL

RSW-4 REMOVE PLANTER WALL

RSW-5 REMOVE CONCRETE WALL ABOVE GRADE – SEE DETAIL 11 ON L21-5



PROJECT MANAGER: JAMES WEAVER; DESIGNER: JAMES WEAVER; DATE: 10/23/24; SCALE: AS SHOWN; DRAWN BY: JAMES WEAVER; CHECKED BY: JAMES WEAVER; PLOTTED: 10/24/2024 9:24 AM BY: WAHLEY, RUSSELL



REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION – PHASE 2
IRON BELLE TRAIL
EXISTING CONDITIONS & REMOVALS – 7

ISSUED FOR: DATE: BY:
IFB 10/23/24 SAL

JOB NO. GPA200301F
SHEET L19-1

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KEY NOTES - PROPOSED

CG - CURB AND GUTTER

- CG-1 STANDARD CURB AND GUTTER (11) (L21-1)
- CG-2 CURB RAMP (9) (L21-1)

LS - LANDSCAPE

- LS-1 PLANTER BED
- LS-2 BIORETENTION BED (3) (L23-1)
- LANDSCAPE BOULDER (1) (L23-1)
- BARRIER BOULDER (2) (L23-1)
- LS-5 TREE GRATE (9) (L21-3)
- LS-6 RIVER ACCESS STONE (14) (L21-1)

PA - PAVING

- PA-1 CONCRETE WALK 4"- STANDARD (3) (L21-1)
- PA-2 CONCRETE WALK 8"- REINFORCED (4) (L21-1)
- PA-3 CONCRETE WALK - EXPOSED AGGREGATE (6) (L21-1)
- PA-4 CONCRETE - COLORED (3) (L21-1)
- PA-5 ASPHALT ROADWAY (1) (L21-1)
- PA-6 ASPHALT TRAIL (2) (L21-1)
- PA-7 PERMEABLE PAVER (8) (L21-1)
- PA-8 STANDARD PAVER (7) (L21-1)
- PA-9 STAIRS - STANDARD (1) (L21-7)
- PA-10 STAIRS - CUSTOM
- PA-11 STAIRS - PERRONS (8) (L21-4)
- PA-11 MEET EXISTING PAVEMENT
- PA-10 CROSSWALK (8) (L21-2)

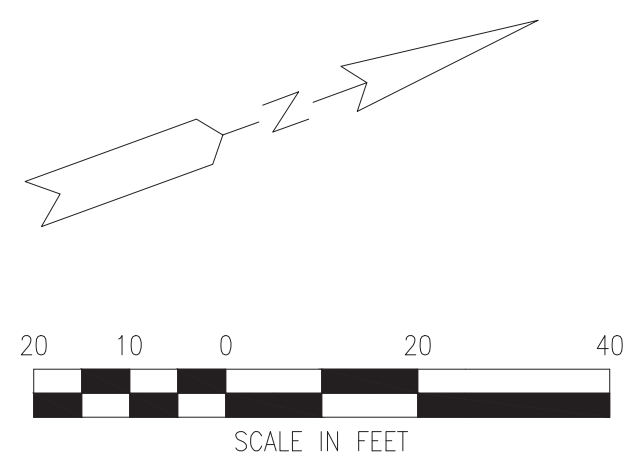
SF - SITE FEATURES

- SF-1 BENCH - STANDARD (6) (L21-3)
- SF-2 SWINGING BENCH (10) (L21-5)
- SF-3 PICNIC TABLE (9) (L21-3)
- LITTER BIN (8) (L21-3)
- SF-5 BIKE RACKS (10) (L21-3)
- SF-6 PARK SIGN
- RIVER EGRESS LADDER (8) (L21-3)
- SF-8 BBQ GRILL AND ASH BIN (2) (L21-6)
- SF-9 RAILING - TYPE A (1) (L21-3)
- SF-10 RAILING - TYPE B (8) (L21-4)
- SF-11 EXISTING HANDRAIL - CLEANING AND PAINTING
- SF-12 USCG LIFE RING (7) (L21-5)

SW - SITE WALLS

SEE STRUCTURAL PLANS FOR DETAILS

- SW-1 RETAINING WALL
- SW-2 SEAT WALL
- SW-3 FLOOD PROTECTION WALL
- SW-4 RAISED PLANTER WALL
- SW-5 OUTCROPPING STONE WALL (9) (L21-5)
- SW-6 CURB WALL



PROJECT MANAGER: JAMES WEAVER; DESIGNER: JAMES WEAVER; CHECKER: JAMES WEAVER; DATE: 10/23/24; SCALE: AS SHOWN; DRAWN BY: WHALEY, RUSSELL



REV#	DATE	DESCRIPTION	BY

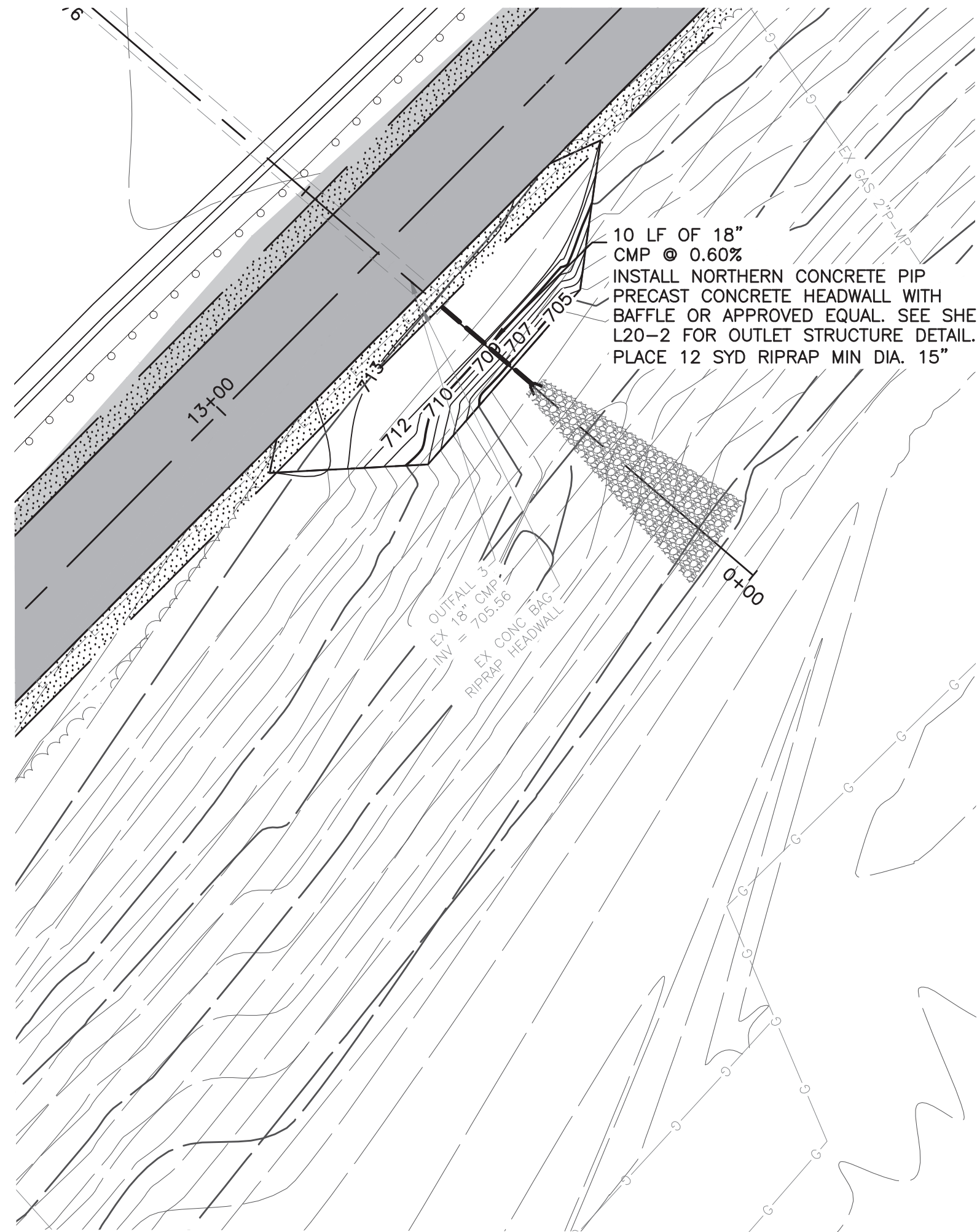


GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

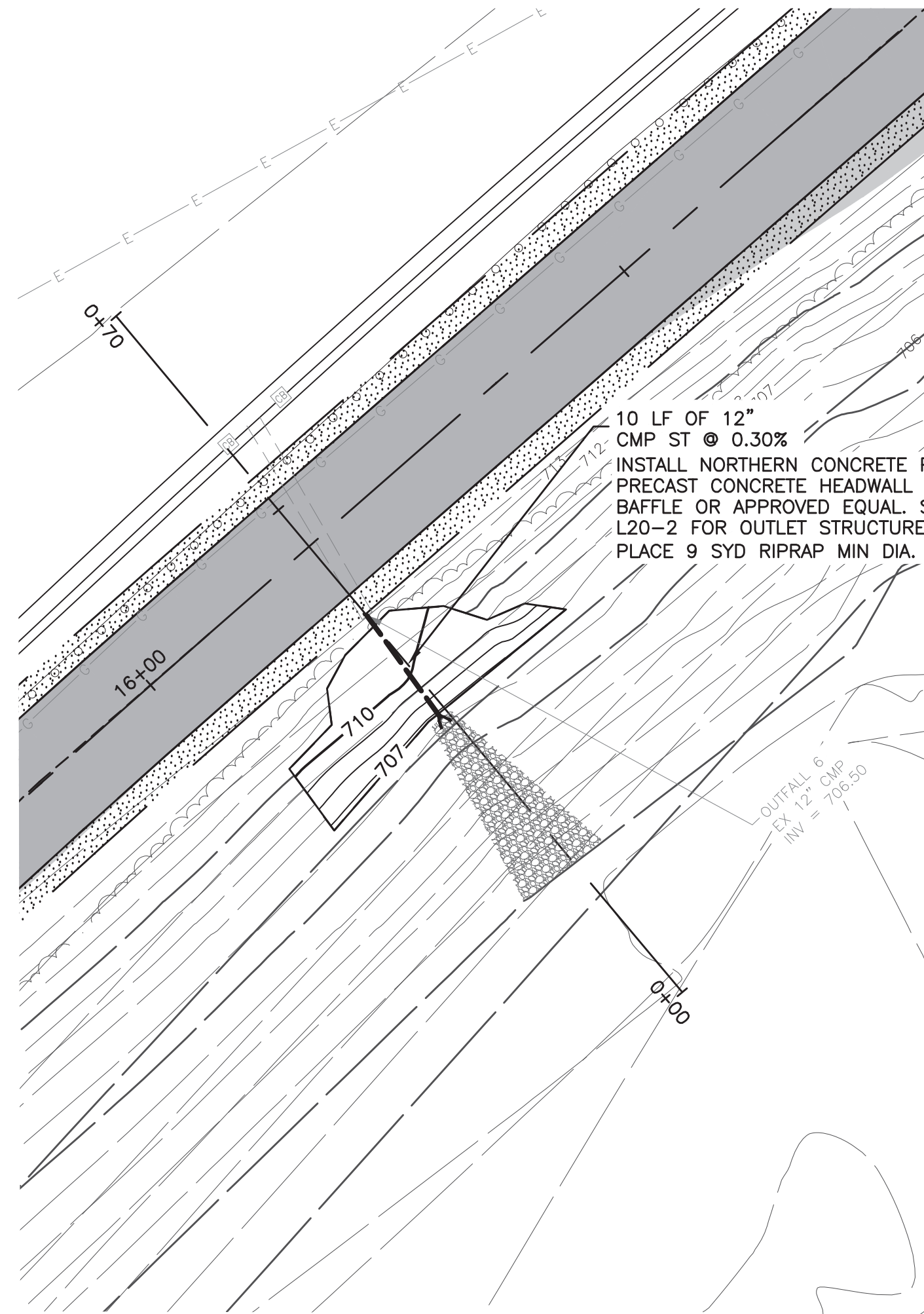
FLINT RIVERFRONT RESTORATION - PHASE 2
IRON BELLE TRAIL
LAYOUT, GRADING & LANDSCAPE - 7

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO: GPA200301F
SHEET			L19-2

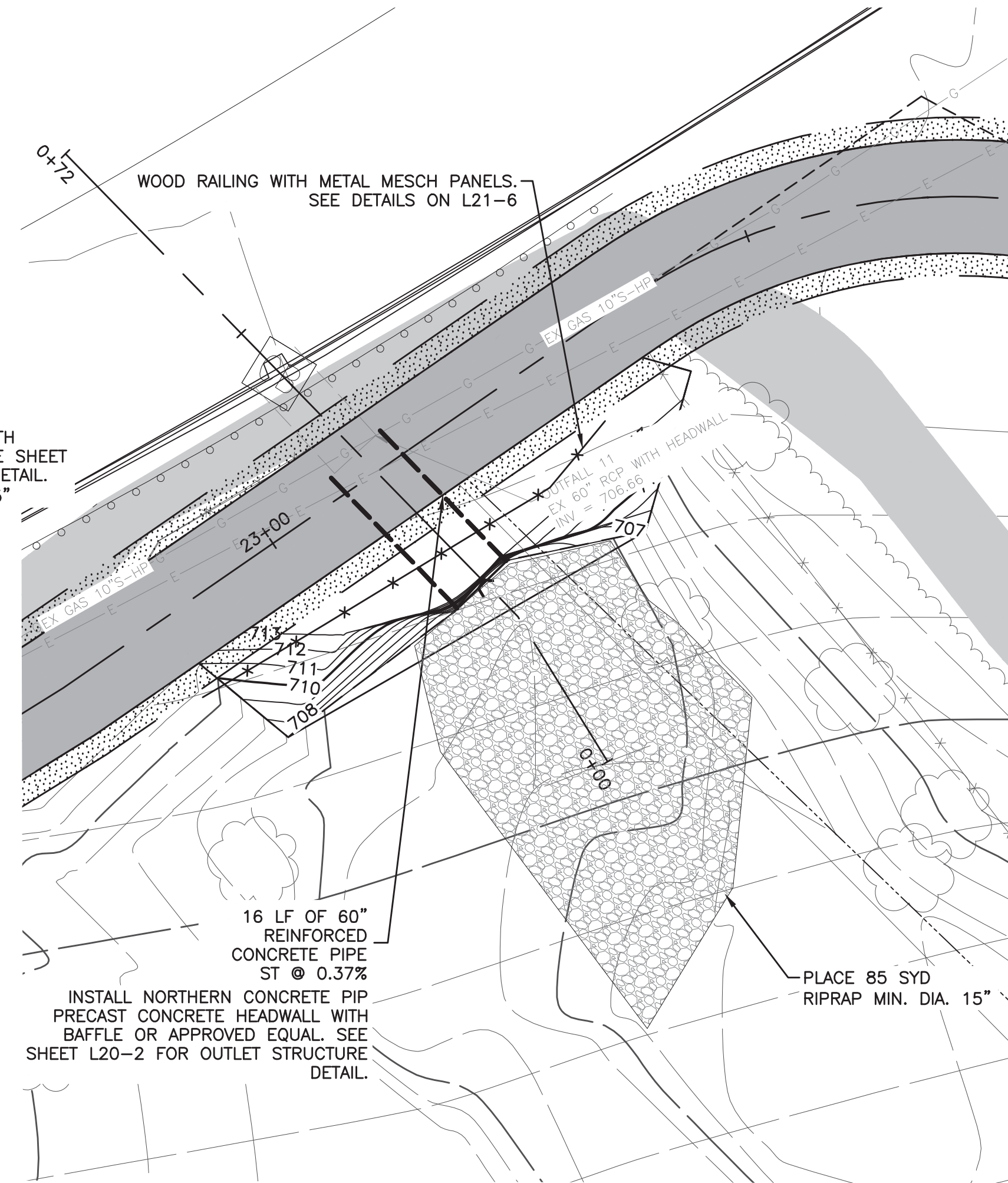
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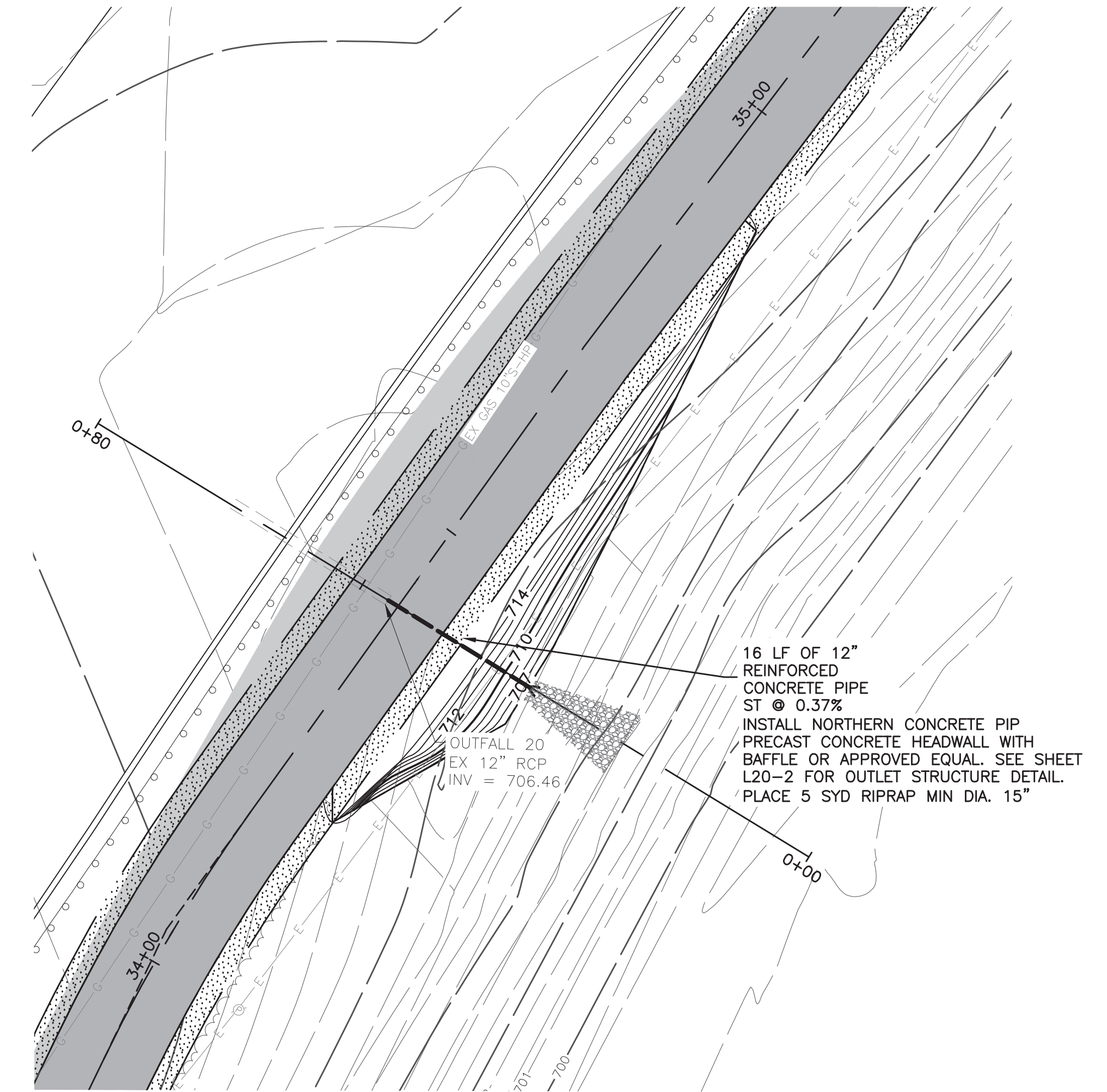
OUTFALL 3 EXTENSION



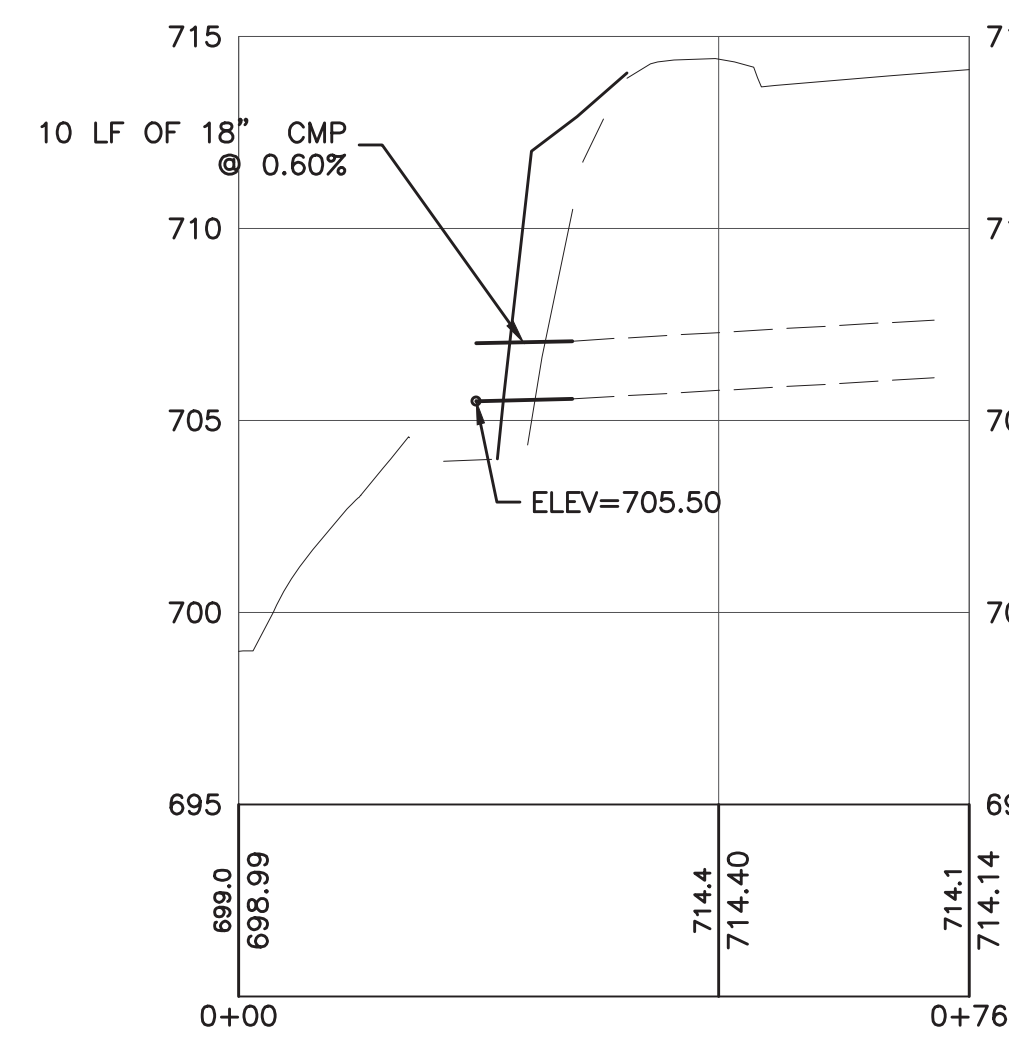
OUTFALL 6 EXTENSION



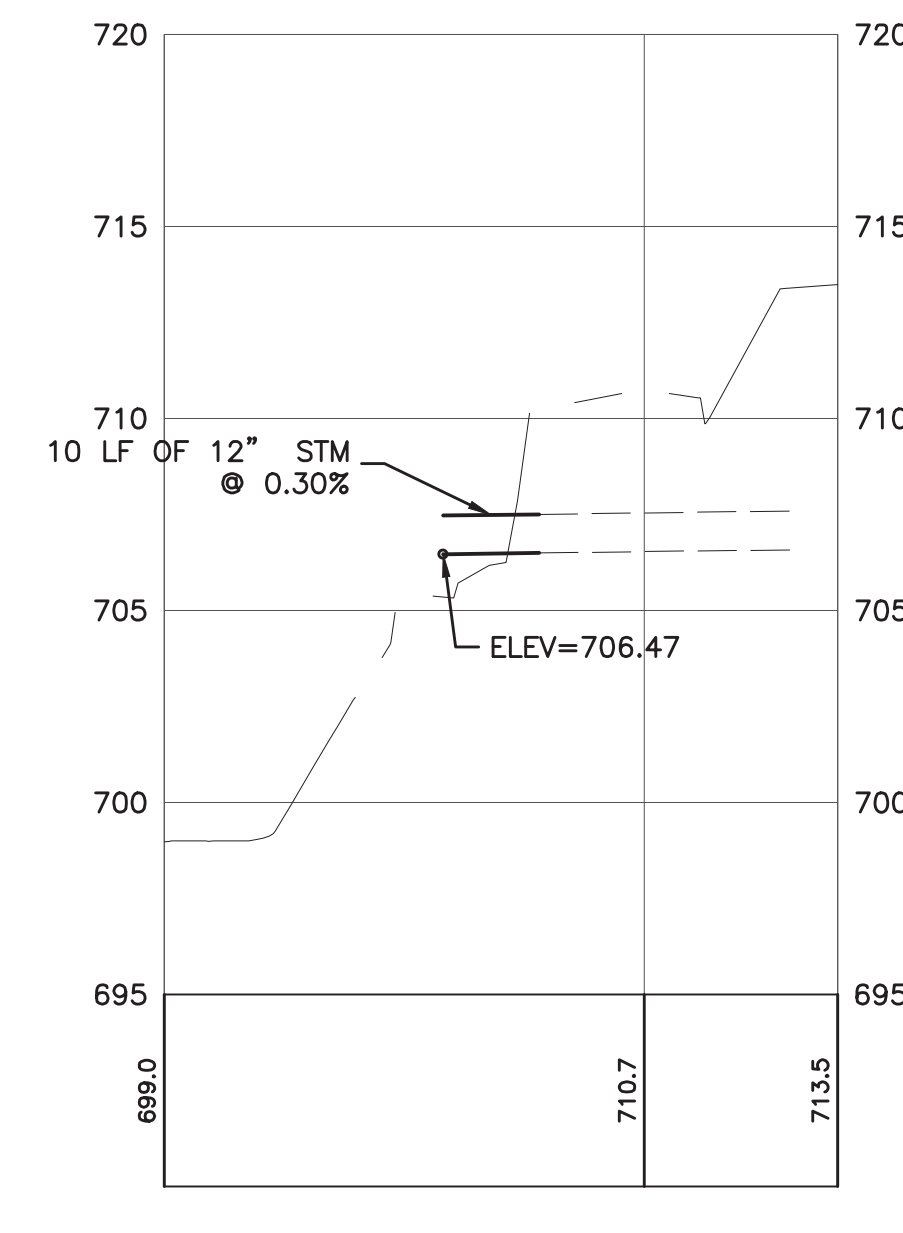
OUTFALL 11 EXTENSION



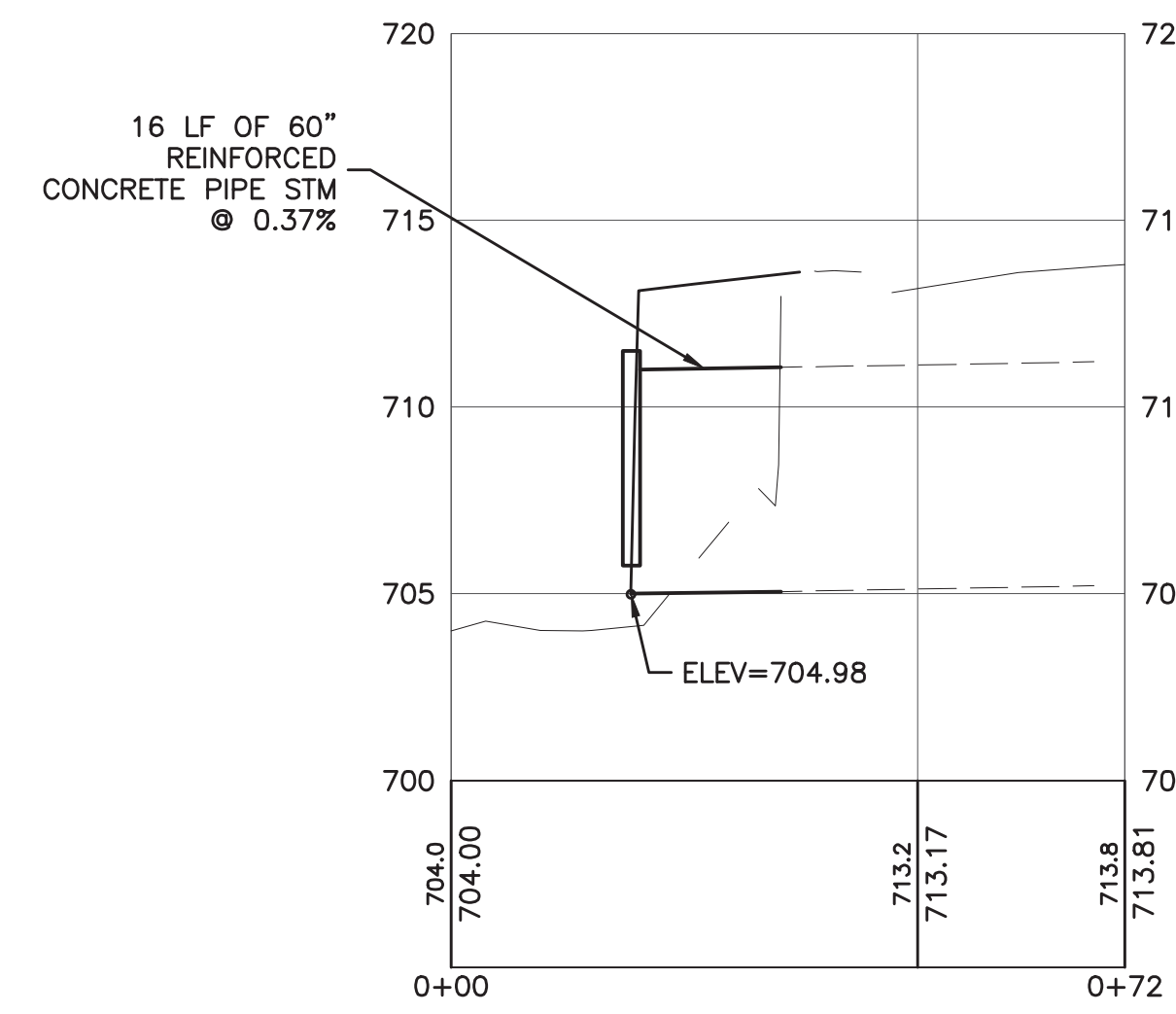
OUTFALL 20 EXTENSION



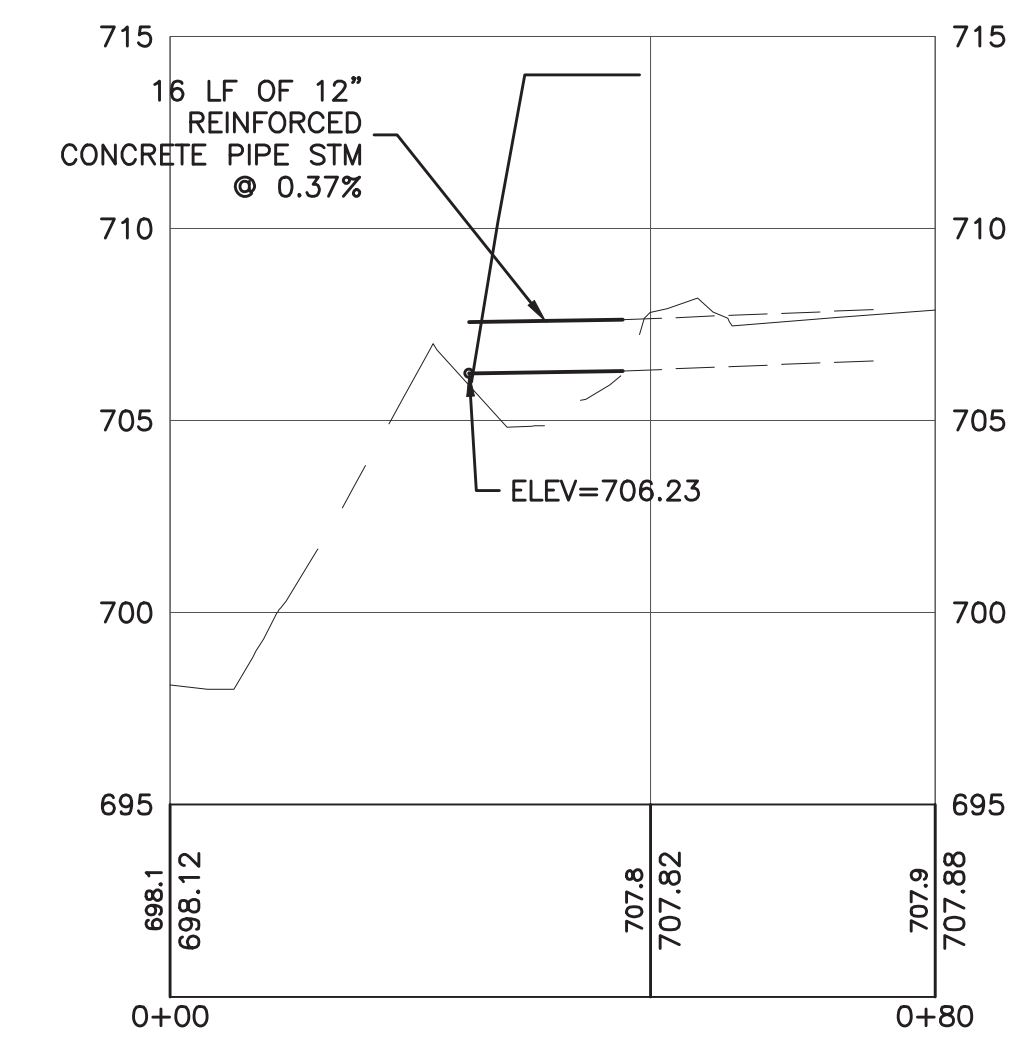
OUTFALL 3 CROSS SECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



OUTFALL 6 CROSS SECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



OUTFALL 11 CROSS SECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'



OUTFALL 20 CROSS SECTION
HORIZONTAL SCALE: 1"=20'
VERTICAL SCALE: 1"=5'

PROJECT MANAGER: BOB WEAVER, NEWMAN CONSULTANTS, INC. DATE: 10/23/24. 9:29 AM BY: WHALEY, RUSSELL



Know what's below.
Call before you dig.

REV#	DATE	DESCRIPTION	BY



GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
RIVER OUTFALLS

ISSUED FOR: (FB)	DATE: 10/23/24	BY: SAL	JOB NO.: GPA200301F
SHEET			L20-1

© 2024 Flint Riverfront, Inc. FLINT RIVER RESTORATION

Outfall Label Inscribed Into Concrete
(1/2" High x 1" Wide By 1/2" Deep)

Outlet Headwall Dimensions	Dia	A	B	C	D	E	F	G	H
12"	2'-0"	1'-4"	10"	3'-4"	2'-9"	2'-4"	4'-0"	1'-6"	
15"	2'-4"	1'-7"	11"	3'-7"	3'-0"	2'-5"	4'-3"	1'-7"	
18"	2'-9"	1'-10"	1'-0"	3'-10"	3'-3"	2'-6"	4'-6"	1'-9"	
24"	3'-6"	2'-4"	1'-1"	4'-4"	3'-9"	2'-10"	5'-0"	2'-0"	
30"	4'-3"	2'-10"	1'-4"	4'-10"	4'-3"	2'-10"	5'-4"	2'-3"	
36"	5'-0"	3'-4"	1'-4"	5'-4"	4'-9"	3'-4"	6'-0"	2'-6"	
48"	5'-9"	4'-10"	1'-4"	6'-8"	5'-3"	7'-0"	7'-0"	3'-0"	

Reinforcement Shall Be Grade 60 #4 Rebar or Equivalent W/F per MDOT Standard Detail R-85-D.

Contractor To Complete Connection Between Pipe and Outlet Headwall w/ Mortar Meeting MDOT 2012 Standard Specification for Construction, Section 702.

Exposed Edges To Be Chamfered 1/8".

Outfall Label To Be Used Only Where Stormwater Will Discharge Directly To The Waters Of The State.

Underdrain Outlet Dimensions

Underdrain Outlet Dimensions	Dia	A	B
4"	12"	9"	
6"	12"	11"	
8"	14"	14"	

Notes:
-Headwall A1 Will Weigh Approx. 25,000 Lbs.
-Wingwalls A2 & A3 Will Weigh Approx. 22,600 Lbs. Each.

401 Kelton St. Bay City, MI 48706	3791 Chicago Dr. SW, Charlotte, MI 48813	3756 Centennial Rd. Sylvania, OH 43580
5281 Lansing Road, Charlotte, MI 48813	3791 Chicago Dr. SW, Wyoming, MI 49319	
4959 White Lake Rd. Clarkston, MI 48346	3756 Centennial Rd. Sylvania, OH 43580	

WC TEST: C-49035

60" Ø RCP Headwall

Overall View

Wingwall Reinforcing Design Completed By Delta Engineers, Binghamton, NY. Wingwalls Are Designed To Be Free-Standing.

The Engineer For This Project To Verify The Following Assumptions Are Adequate For This Specific Site:

Design Assumptions:

- Design per AASHTO LRFD Specifications w/2015 Interim Revisions
- Soil Friction Angle: 30° (Retained), 32° (Foundation)
- Unit Weight = 120pcf
- 1 on 3 Back Slope, No Surcharge
- Service Soil Bearing Pressure = 2,050 psf
- Strength Soil Bearing Pressure = 2,978 psf
- Bar Cover = 1 1/2" U.N.O.
- Fe @ 28 Days = 500ksi (min) With 65% ± 15% Entrained Air. Maximum of 95% If Type F or G Admixtures Are Used.
- Reinforcement = ASTM A-615/185 Grade 60

Notes:
-Headwall A1 Will Weigh Approx. 25,000 Lbs.
-Wingwalls A2 & A3 Will Weigh Approx. 22,600 Lbs. Each.

401 Kelton Street, Bay City, MI 48706	3791 Chicago Dr. SW, Charlotte, MI 48813	3756 Centennial Rd. Sylvania, OH 43580
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4959 White Lake Rd. Clarkston, MI 48346	3756 Centennial Rd. Sylvania, OH 43580	

WC TEST: C-49035

60" Ø RCP Headwall

Headwall A1 - QTY: 1

Wingwall Reinforcing Design Completed By Delta Engineers, Binghamton, NY. Wingwalls Are Designed To Be Free-Standing.

The Engineer For This Project To Verify The Following Assumptions Are Adequate For This Specific Site:

Design Assumptions:

- Design per AASHTO LRFD Specifications w/2015 Interim Revisions
- Soil Friction Angle: 30° (Retained), 32° (Foundation)
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- Reinforcement = ASTM A-615/185 Grade 60

Notes:
-Headwall A1 Will Weigh Approx. 25,000 Lbs.

401 Kelton Street, Bay City, MI 48706	3791 Chicago Dr. SW, Charlotte, MI 48813	3756 Centennial Rd. Sylvania, OH 43580
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4959 White Lake Rd. Clarkston, MI 48346	3756 Centennial Rd. Sylvania, OH 43580	

WC TEST: C-49035

60" Ø RCP Headwall

Headwall A2 - QTY: 1

Wingwall Reinforcing Design Completed By Delta Engineers, Binghamton, NY. Wingwalls Are Designed To Be Free-Standing.

The Engineer For This Project To Verify The Following Assumptions Are Adequate For This Specific Site:

Design Assumptions:

- Design per AASHTO LRFD Specifications w/2015 Interim Revisions
- Soil Friction Angle: 30° (Retained), 32° (Foundation)
- Unit Weight = 120pcf
- 1 on 3 Back Slope, No Surcharge
- Service Soil Bearing Pressure = 2,050 psf
- Strength Soil Bearing Pressure = 2,978 psf
- Bar Cover = 1 1/2" U.N.O.
- Fe @ 28 Days = 500ksi (min) With 65% ± 15% Entrained Air. Maximum of 95% If Type F or G Admixtures Are Used.
- Reinforcement = ASTM A-615/185 Grade 60

Notes:
-Wingwall A2 Will Weigh Approx. 22,600 Lbs.

401 Kelton Street, Bay City, MI 48706	3791 Chicago Dr. SW, Charlotte, MI 48813	3756 Centennial Rd. Sylvania, OH 43580
5281 Lansing Road, Charlotte, MI 48813	3791 Chicago Dr. SW, Wyoming, MI 49319	
4959 White Lake Rd. Clarkston, MI 48346	3756 Centennial Rd. Sylvania, OH 43580	

WC TEST: C-49035

60" Ø RCP Headwall

Headwall A3 - QTY: 1

Wingwall Reinforcing Design Completed By Delta Engineers, Binghamton, NY. Wingwalls Are Designed To Be Free-Standing.

The Engineer For This Project To Verify The Following Assumptions Are Adequate For This Specific Site:

Design Assumptions:

- Design per AASHTO LRFD Specifications w/2015 Interim Revisions
- Soil Friction Angle: 30° (Retained), 32° (Foundation)
- Unit Weight = 120pcf
- 1 on 3 Back Slope, No Surcharge
- Service Soil Bearing Pressure = 2,050 psf
- Strength Soil Bearing Pressure = 2,978 psf
- Bar Cover = 1 1/2" U.N.O.
- Fe @ 28 Days = 500ksi (min) With 65% ± 15% Entrained Air. Maximum of 95% If Type F or G Admixtures Are Used.
- Reinforcement = ASTM A-615/185 Grade 60

Notes:
-Wingwall A3 Will Weigh Approx. 22,600 Lbs.

401 Kelton Street, Bay City, MI 48706	3791 Chicago Dr. SW, Charlotte, MI 48813	3756 Centennial Rd. Sylvania, OH 43580
5281 Lansing Road, Charlotte, MI 48813	3791 Chicago Dr. SW, Wyoming, MI 49319	
4959 White Lake Rd. Clarkston, MI 48346	3756 Centennial Rd. Sylvania, OH 43580	

PROJECT MANAGER: MICHAEL WEAVER, NEWCASTLE, ON; CIVIL ENGINEER: JEFFREY RUSSELL, RUSSELL, RUSSELL & ASSOCIATES, INC.; DATE: 10/22/2024; 9:29 AM BY: WHALEY, RUSSELL

REV#	DATE	DESCRIPTION	BY

925 S. Bayview Street, Suite 201
Flint, MI 48602
910.291.2556
www.wadestrim.com

GENESEE COUNTY PARKS & REC
5045 E. STANLEY ROAD
FLINT, MI 48506

FLINT RIVERFRONT RESTORATION - PHASE 2
RIVER OUTFALLS - DETAILS

ISSUED FOR: DATE: BY: JWB
10/23/24 SAL

JOB NO. GPA200301F

SHEET L20-2

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