

WEST BAY SANITARY DISTRICT



REQUEST FOR PROPOSALS

Project #1760.0

To Provide

Recycled Water Project – Sharon Heights

Design-Build (DB) Services

Volume 3B of 3

Project Drawings

Purpose of Volume 3B

The purpose of Volume 3B – Project Drawings is provide conceptual drawings of the Recycled Water Project – Sharon Heights – Design-Build (DB) Services. The DB Entity is responsible for providing the final design drawings for the Project (sealed and signed by California professionally licensed engineers) in accordance with Volume 3A - Project Element Narratives. Where applicable, proposed modification to any of the technical approaches and design/performance criteria shall be addressed in accordance with Volume 1 (Request for Proposals), and shall only be allowed if approved in writing by the District.

Conceptual drawings relating to Element 1 (Influent PS) presented in Volume 3B herein is intended to be relatively prescriptive to provide the District with a pump station that is largely similar to the District's existing wastewater pump stations already in operation. Consequently, the conceptual drawings have been prepared in accordance with District pump station design standards. The DB Entity shall prepare final pump station design drawings, but not significantly deviate from the concept drawings.

Conceptual drawings relating to Element 2 (Force Mains and Gravity Sewers) are intended to show the pipeline corridor that defines where the open-cut pipeline can be constructed. The plan and profile drawings provide known locations of existing utilities; the DB Entity is responsible for locating (i.e. potholing) these utilities to confirm their locations and depth. The final design of the pipeline alignments shall be in accordance with Volume 3A – Project Narratives.

Conceptual drawings relating to the RWTP is intended to provide the DB Entity with background information of the work area, such as known existing utilities and work area limits. The DB Entity is responsible for confirming the locations of all existing utilities in the work area. The RWTP facilities shown in the conceptual drawings are intended to provide a feasible layout that adheres to all of the technical and performance requirements and site restrictions of the RWTP, as detailed in Volume 3A – Project Narratives. The final design of the RWTP is not restricted to the layout shown in the conceptual drawings. The DB Entity is permitted to produce an original design that meets the requirements of Volume 3A.



West Bay Sanitary District

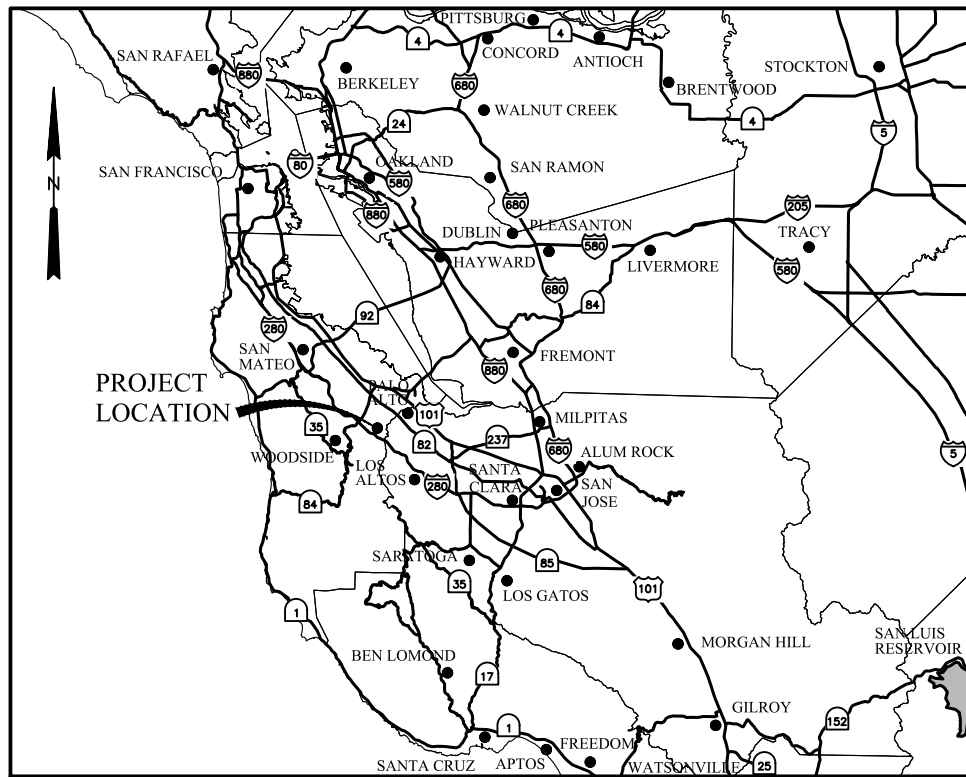
RECYCLED WATER PROJECT SHARON HEIGHTS DESIGN-BUILDING (DB) SERVICES

Project No. 1760.0

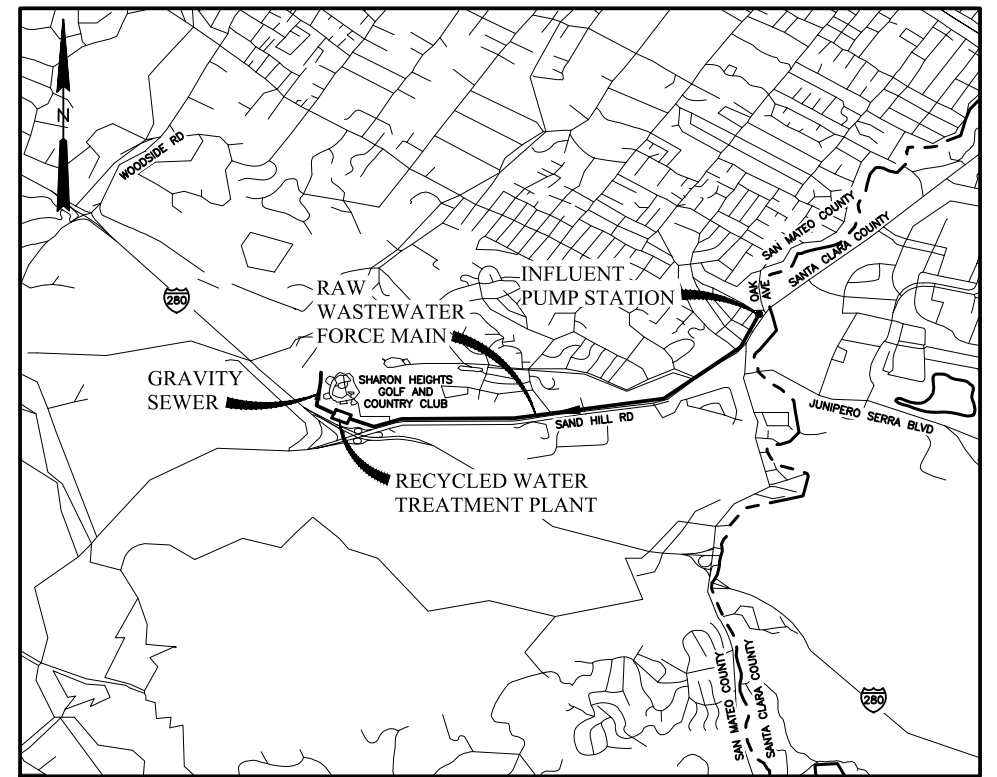
August 2017

Volume 3B of 3

Preliminary Project Drawings for
Design-Build Contracting



VICINITY MAP
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LOCATION MAP
NOT TO SCALE

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**PRELIMINARY
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0" = 1"
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IF NOT ONE INCH
LONG ON THIS
DRAWING, ADJUST
SCALES ACCORDINGLY



REV	DATE	BY	APVD	DESCRIPTION

DESIGNED	K. KUANG
DRAWN	J. MAY
CHECKED	T. VALDIVIA

SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT

TITLE SHEET

DWG NO	G-1
SHEET NO	OF
PROJ NO	0606-007
DATE	AUGUST 2017

INDEX OF DRAWINGS

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8	C-4	PLAN/PROFILE: SAND HILL ROAD PIPE CORRIDOR STA. 27+00 TO STA. 36+00
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ABBREVIATIONS

A	AMPS
AC	ASPHALTIC CONCRETE
AVE	AVENUE
B.D.P.L	BAY DIVISION PIPELINE
CL	CENTERLINE
DI	DRAIN INLET
DIP	DUCTILE IRON PIPE
DR	DRIVE, DIMENSION RATIO
E, ELEC	ELECTRIC, ELECTRICAL
EX, EX.	EXISTING
FL	FLOW LINE
FM	FORCEMAIN
FT	FEET, FOOT
GND	GROUND
GR	GROUND ELEVATION
HDPE	HIGH DENSITY POLYETHYLENE
HP	HORSE POWER
INV	INVERT
LAT	LATERAL
MBR	MEMBRANE BIOREACTOR
MCC	MOTOR CONTROL CENTER
MH	MANHOLE
MIN	MINIMUM
NO.	NUMBER
PLC	PROGRAMMABLE LOGIC CONTROLLER
PVC	POLYVINYL CHLORIDE
RAS	RETURN ACTIVATED SLUDGE
RD	ROAD
RO	REVERSE OSMOSIS
RW	RECYCLED WATER
RWTP	RECYCLED WATER TREATMENT PLANT
SCADA	SUPERVISORY CONTROL AND DATA ACQUISITION
SD	STORM DRAIN
SDR	STANDARD DIMENTION RATIO
SHGCC	SHARON HEIGHTS GOLF COUNTY CLUB
SS	SANITARY SEWER
S.S.	STAINLESS STEEL
SSFm	SANITARY SEWER FORCEMAIN
STA	STATION
TYP	TYPICAL
UV	ULTRAVIOLET
VFD	VARIABLE FREQUENCY DRIVE
W	WATER, WEST
WAS	WASTE ACTIVATED SLUDGE
W/	WITH

PLAN AND PROFILE PIPING LEGEND

	24" FM	FORCEMAIN
		EXISTING PIPE
	BO	BLOWOFF (PLAN)
		AIR RELEASE VALVE
	12" SD	STORM DRAIN MAIN
	8" SS	SANITARY SEWER MAIN
	6" W	WATER MAIN
	E	ELEC CONDUIT (UNDERGROUND)
	E (O/H)	ELEC CABLES (OVERHEAD)
	T	TELECOM (POSSIBLY FIBRE OPTIC) CONDUIT
	FO	TELECOM/FIBRE OPTIC CONDUIT
	8" GAS	GAS PIPELINE
	18" SD??	EXISTENCE OR SIZE OF UTILITY NOT CONFIRMED (??)
		STORM DRAIN INLET
		MANHOLE
		WATER METER
		FIRE HYDRANT
		WATER VALVE

YARD PIPING LEGEND

	NEW PIPE
	FUTURE PIPE
	WORK AREA LIMIT
	EXISTING PIPE
	AC PAVEMENT
	RETAINING WALL
	NEW FENCE

VALVES

	PLUG
	CHECK

MECHANICAL PIPING LEGEND

DOUBLE LINE	SINGLE LINE	
		EXISTING PIPE (FUTURE PIPE IF DESIGNATED AS FUTURE)
		NEW PIPE
		EXISTING PIPE TO BE ABANDONED
		EXISTING PIPE TO BE REMOVED
		BUTT WELDED JOINT
		FLANGED JOINT
		GROOVED END JOINT
		HUB & SPIGOT JOINT
		FLEXIBLE COUPLING
		FLANGED COUPLING ADAPTER
		ELBOW DOWN
		ELBOW UP
		TEE DOWN
		TEE UP
		LATERAL DOWN
		LATERAL UP
		CONCENTRIC REDUCER
		ECCENTRIC REDUCER
		CROSS
		TEE
		ELBOW, 45 DEGREE
		LATERAL
		CHANGE IN PIPE MATERIAL
		BLIND FLANGE

GENERAL PIPING NOTES

1. THIS IS A STANDARD LEGEND SHEET. NOT ALL ITEMS SHOWN ARE USED ON THIS PROJECT.
2. SOME SYMBOLS MAY BE SHOWN DIFFERENTLY ON DRAWINGS AND LABELED ACCORDINGLY.

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CHECKED T. VALDIVIA

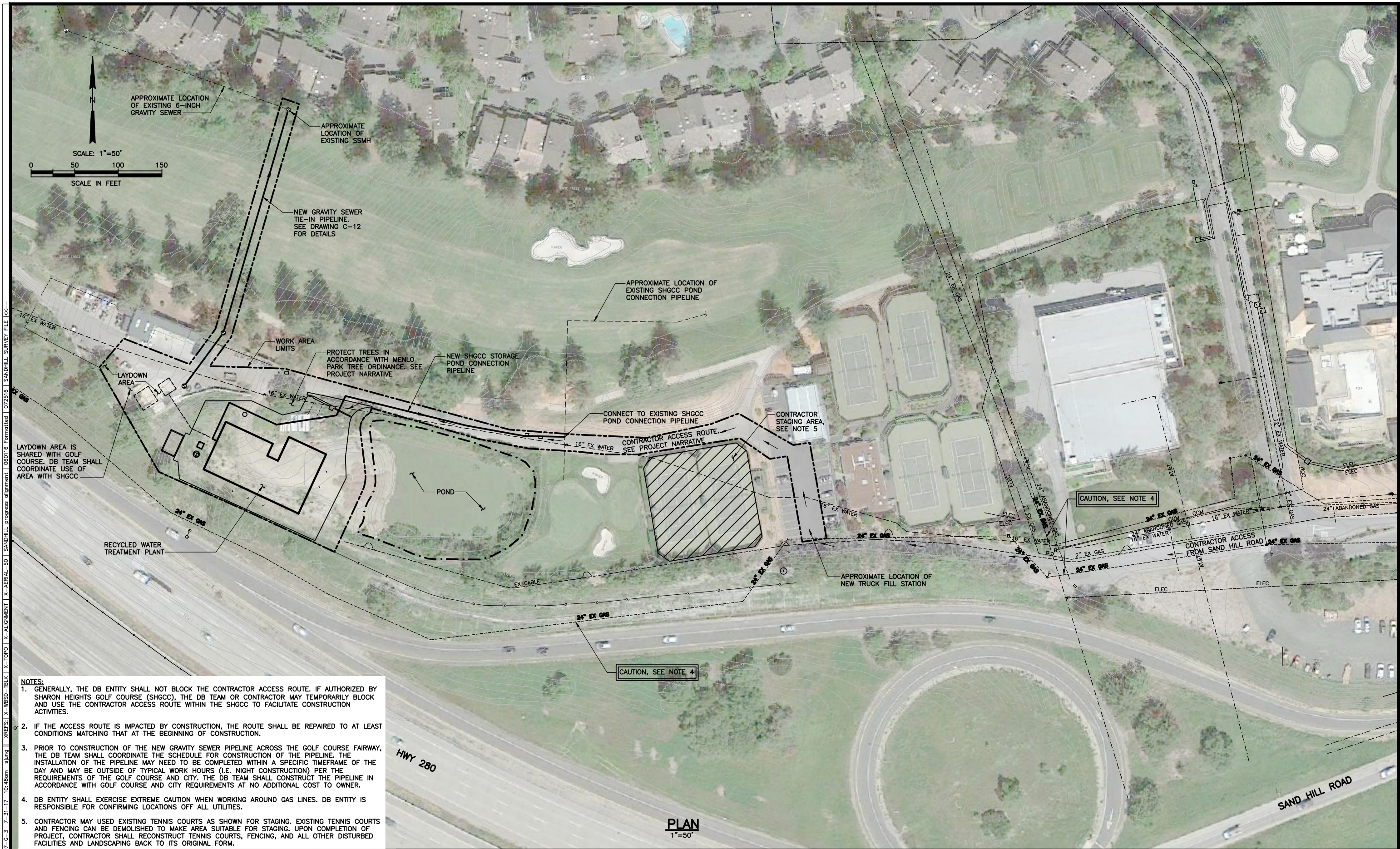
SUBMITTED: _____
RMC PROJ ENGR C _____
APPROVED: _____
RMC ENGR C _____



SHARON HEIGHTS RECYCLED WATER PROJECT

INDEX OF DRAWINGS,
ABBREVIATIONS, LEGENDS

DWG NO G-2
SHEET NO OF
PROJ NO 0606-007
DATE AUGUST 2017



- NOTES:**
1. GENERALLY, THE DB ENTITY SHALL NOT BLOCK THE CONTRACTOR ACCESS ROUTE. IF AUTHORIZED BY SHARON HEIGHTS GOLF COURSE (SHGCC), THE DB TEAM OR CONTRACTOR MAY TEMPORARILY BLOCK AND USE THE CONTRACTOR ACCESS ROUTE WITHIN THE SHGCC TO FACILITATE CONSTRUCTION ACTIVITIES.
 2. IF THE ACCESS ROUTE IS IMPACTED BY CONSTRUCTION, THE ROUTE SHALL BE REPAIRED TO AT LEAST CONDITIONS MATCHING THAT AT THE BEGINNING OF CONSTRUCTION.
 3. PRIOR TO CONSTRUCTION OF THE NEW GRAVITY SEWER PIPELINE ACROSS THE GOLF COURSE FAIRWAY, THE DB TEAM SHALL COORDINATE THE SCHEDULE FOR CONSTRUCTION OF THE PIPELINE. THE INSTALLATION OF THE PIPELINE MAY NEED TO BE COMPLETED WITHIN A SPECIFIC TIMEFRAME OF THE DAY AND MAY BE OUTSIDE OF TYPICAL WORK HOURS (I.E. NIGHT CONSTRUCTION) PER THE REQUIREMENTS OF THE GOLF COURSE AND CITY. THE DB TEAM SHALL CONSTRUCT THE PIPELINE IN ACCORDANCE WITH GOLF COURSE AND CITY REQUIREMENTS AT NO ADDITIONAL COST TO OWNER.
 4. DB ENTITY SHALL EXERCISE EXTREME CAUTION WHEN WORKING AROUND GAS LINES. DB ENTITY IS RESPONSIBLE FOR CONFIRMING LOCATIONS OFF ALL UTILITIES.
 5. CONTRACTOR MAY USE EXISTING TENNIS COURTS AS SHOWN FOR STAGING. EXISTING TENNIS COURTS AND FENCING CAN BE DEMOLISHED TO MAKE AREA SUITABLE FOR STAGING. UPON COMPLETION OF PROJECT, CONTRACTOR SHALL RECONSTRUCT TENNIS COURTS, FENCING, AND ALL OTHER DISTURBED FACILITIES AND LANDSCAPING BACK TO ITS ORIGINAL FORM.

PLAN
1"=50'

PRELIMINARY
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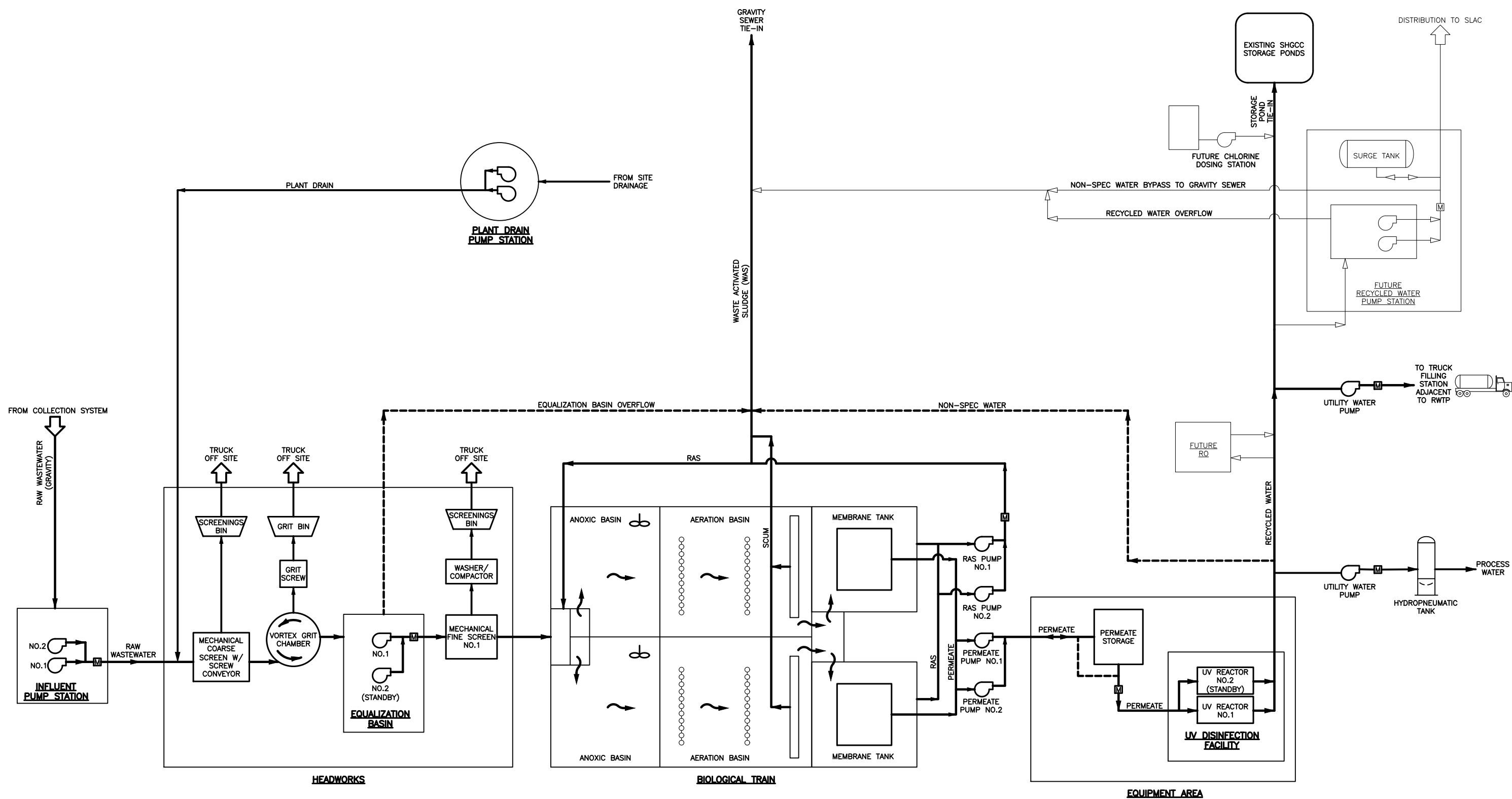
DESIGNED	K. KUANG
DRAWN	J. MAY
CHECKED	T. VALDIVIA

SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT
RWTP GENERAL PLAN AND EXISTING CONDITIONS

DWG NO	G-3
SHEET NO	OF
PROJ NO	0606-007
DATE	AUGUST 2017



- LEGEND:**
- PRIMARY PROCESS LINE WITH FLOW DIRECTION
 - - - BYPASS PRIMARY PROCESS LINE WITH FLOW DIRECTION
 - SECONDARY PROCESS LINE WITH FLOW DIRECTION
 - - - FUTURE PROCESS LINE WITH FLOW DIRECTION
 - EXISTING PIPELINE
 - ⇄ PROCESS FLOW/TRANSPORT TO OR FROM OFF-SITE
 - ▭ STRUCTURE
 - ▭ PROCESS EQUIPMENT
 - ▭ FUTURE STRUCTURE/EQUIPMENT
 - ▭ EXISTING STRUCTURE/EQUIPMENT
 - Ⓜ FLOW METER
 - Ⓚ PUMP
 - ⊕ MIXER
 - ⊙⊙ AIR DIFFUSERS

- NOTES:**
1. THE PROCESS FLOW DIAGRAM IS CONCEPTUAL AND SHOWS AN EXAMPLE BIOLOGICAL PROCESS WITH A PRE-ANOXIC ZONE AND AERATION ZONE INDICATED FOR NITROGEN REMOVAL. THE DB TEAM IS RESPONSIBLE FOR DESIGNING A BIOLOGICAL AND MEMBRANE PROCESS THAT MEETS THE PROJECT'S RECYCLED WATER QUALITY REQUIREMENTS SHOWN IN VOLUME 3 INCLUDING THE POTENTIAL NEED FOR POST-ANOXIC ZONES, CARBON ADDITION, RECIRCULATION, AND DEOXYGENATION ZONES.
 2. THE PROCESS FLOW DIAGRAM IS NOT INCLUSIVE OF ALL THE EQUIPMENT, PIPELINE INTERCONNECTS, VALVES, AND BYPASS NEEDS AND REQUIREMENTS.
 3. RAS PUMPING AND UTILITY WATER PUMPING ARRANGEMENTS SHALL BE MODIFIED BY THE DB TEAM TO MEET THE PROJECT NEEDS AND ARRANGEMENT.
 4. MEMBRANE PERMEATE PUMPS ARE ENVISIONED TO DELIVER RECYCLED WATER TO THE GOLF COURSES STORAGE POND. THE PUMP HYDRAULIC REQUIREMENTS ARE UNKNOWN AS THE EXISTING STORAGE POND PIPELINE ALIGNMENT AND ELEVATIONS ARE UNKNOWN. THE DB ENTITY SHALL EVALUATE HYDRAULIC AND OPERATIONS REQUIREMENTS.
 5. MEMBRANE CHEMICAL ADDITION EQUIPMENT NOT SHOWN FOR CLARITY.

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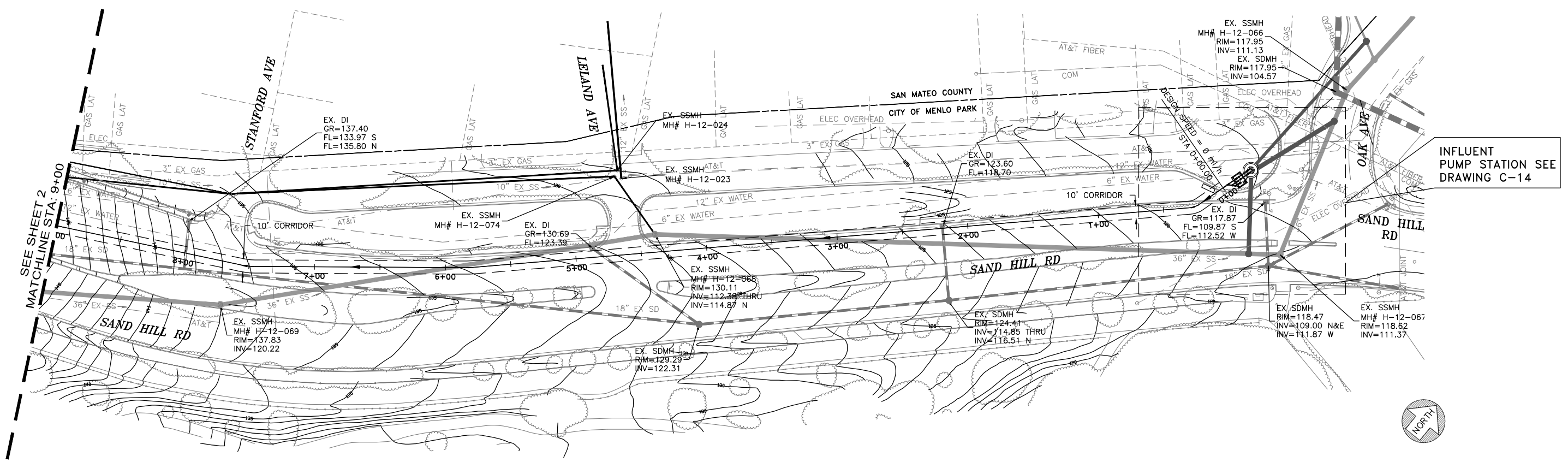
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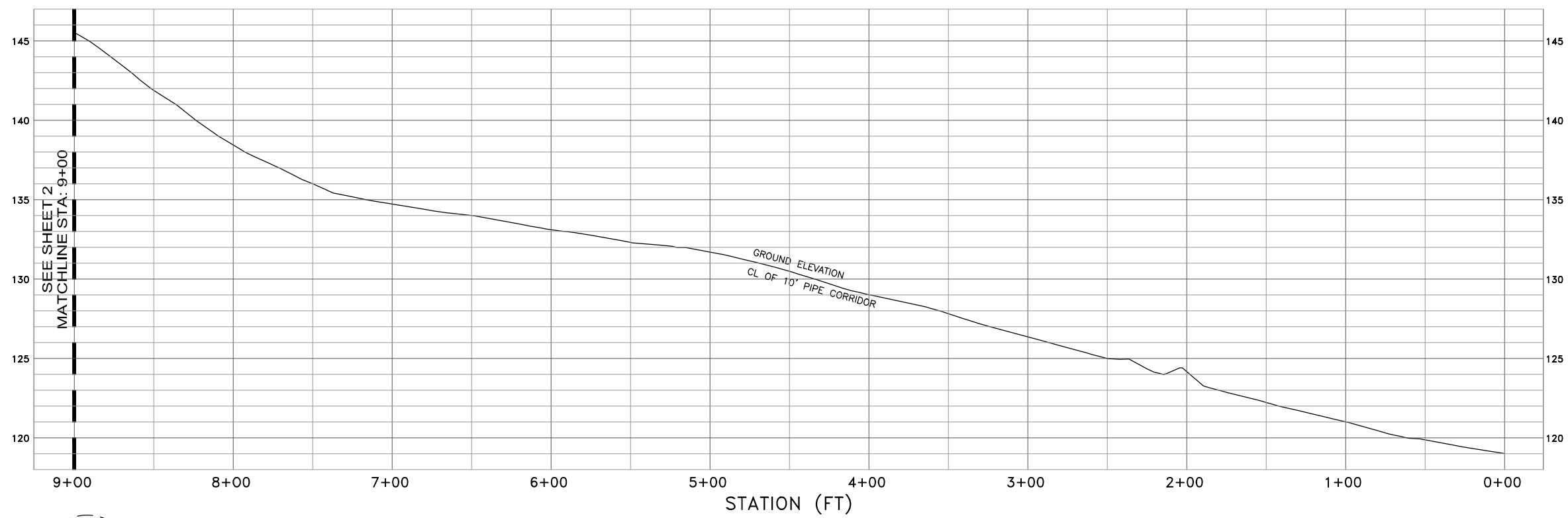
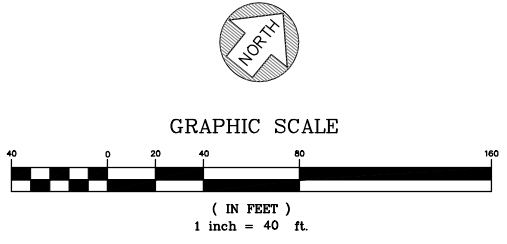
SHARON HEIGHTS RECYCLED WATER PROJECT
PROCESS FLOW DIAGRAM

DWG NO G-4
SHEET NO OF
PROJ NO 0606-007
DATE AUGUST 2017

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INFLUENT PUMP STATION SEE DRAWING C-14



NOTE:
SSFM DOWNSTREAM OF VALVE PIT SHALL EITHER BE HDPE SDR9 OR FUSIBLE PVC C900 DR14

PROFILE VIEW
HORIZ: 1" = 40'
VERT: 1" = 4'

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REV	DATE	BY	APVD	DESCRIPTION
REV5	RD5	RB5	RA5	RR5
REV4	RD4	RB4	RA4	RR4
REV3	RD3	RB3	RA3	RR3
REV2	RD2	RB2	RA2	RR2
REV1	RD1	RB1	RA1	RR1

DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

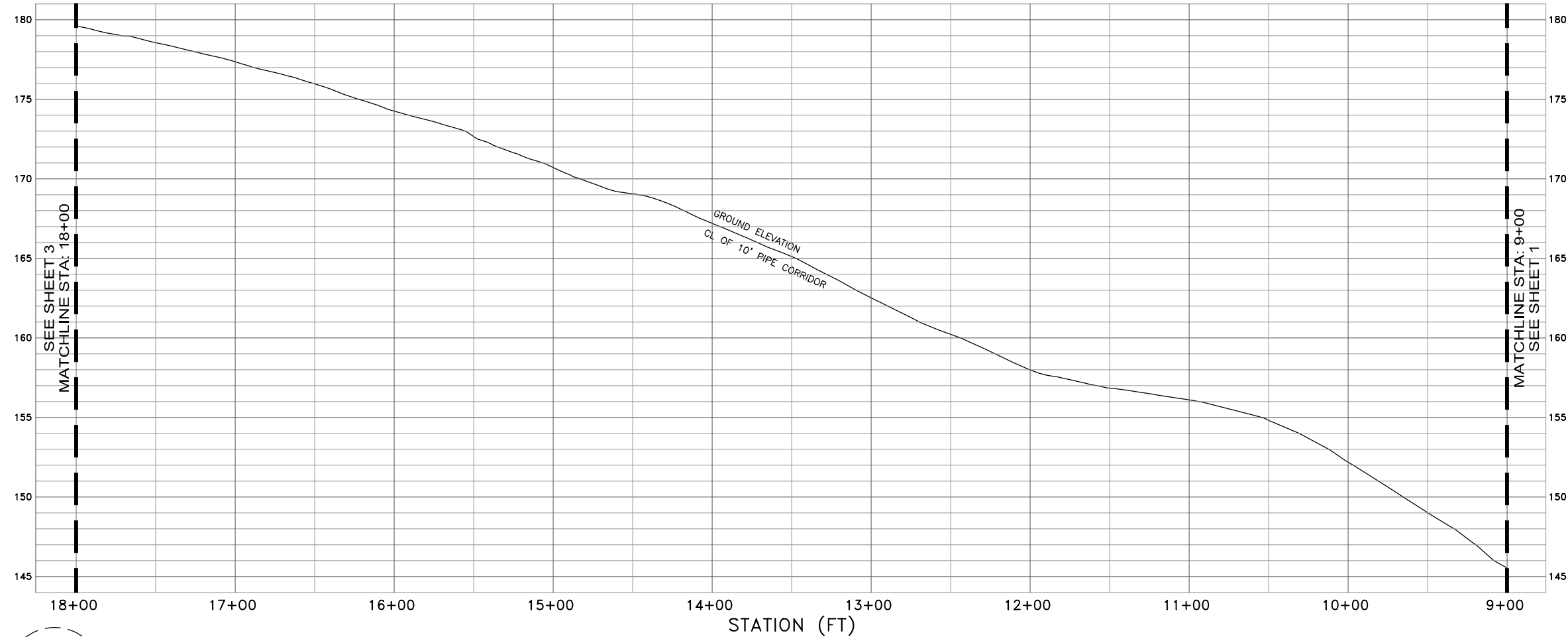
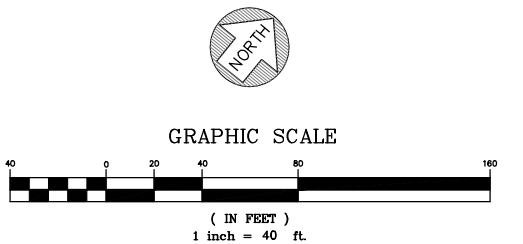
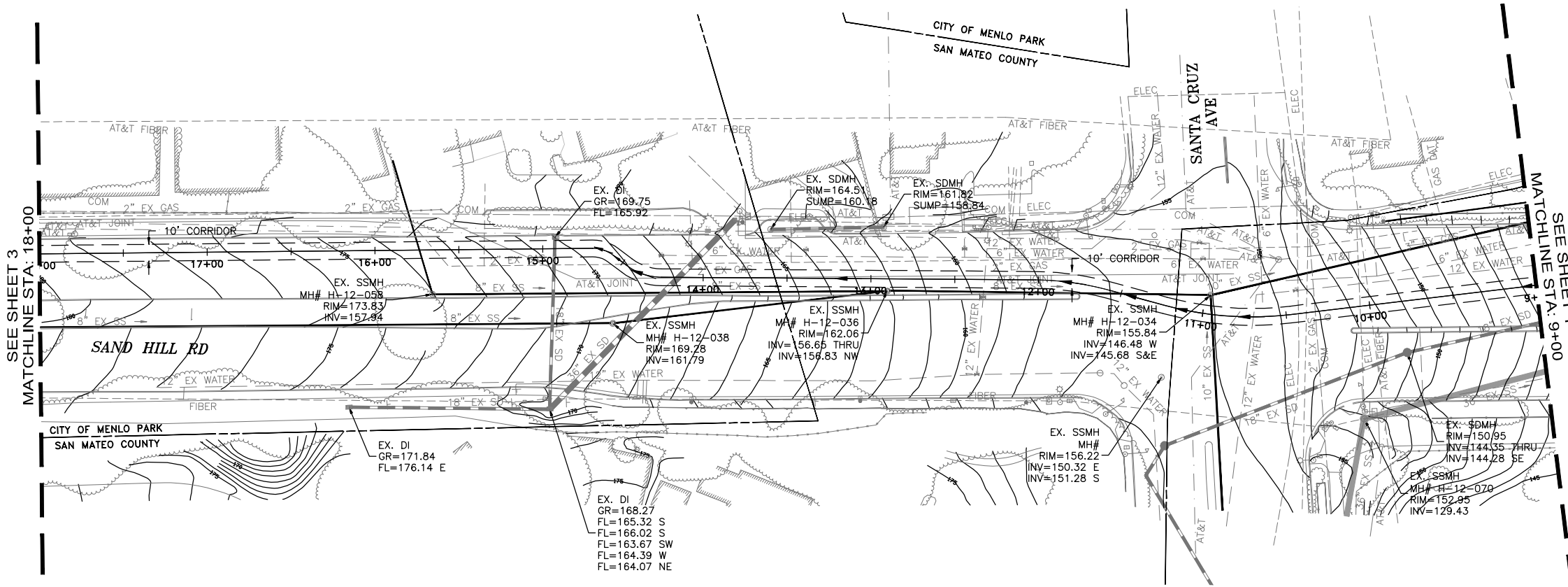
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APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT
PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
STA: 0+00 TO STA: 9+00

DWG NO	C-1
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PROJ NO	0606-007
DATE	AUGUST 2017

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REV4	RD4	RB4	RA4	RR4
REV3	RD3	RB3	RA3	RR3
REV2	RD2	RB2	RA2	RR2
REV1	RD1	RB1	RA1	RR1

DESIGNED	RJL
DRAWN	SCC
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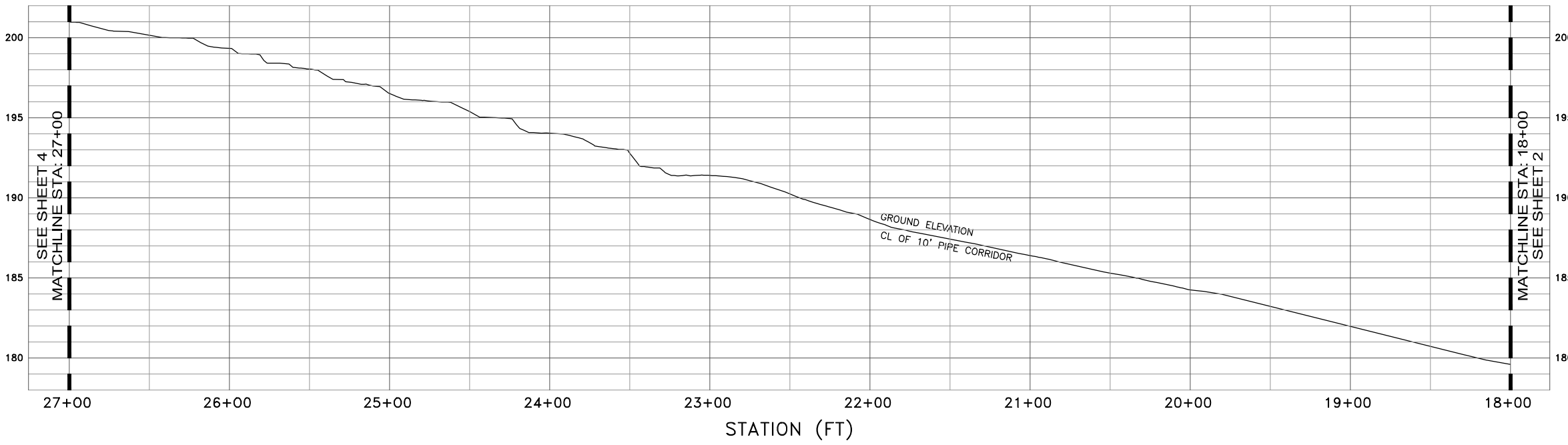
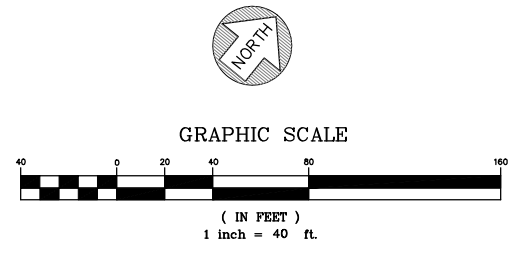
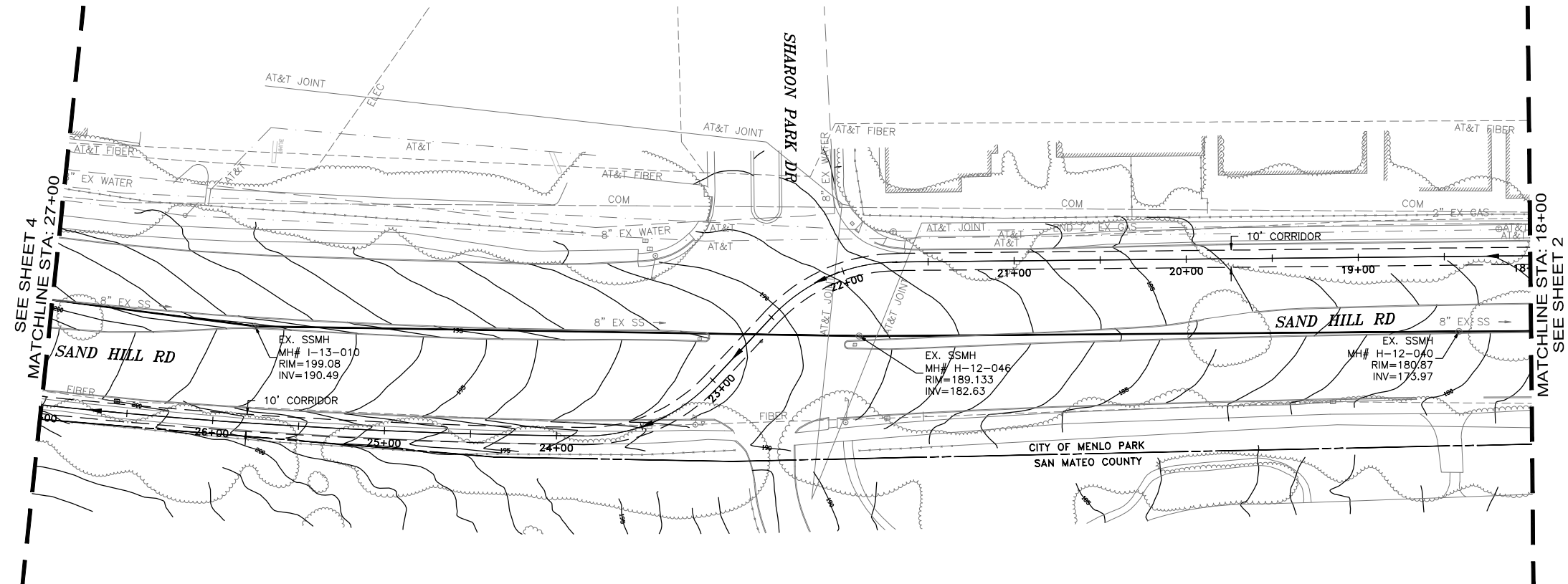
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SHARON HEIGHTS RECYCLED WATER PROJECT
PLAN/PROFILE
 SAND HILL ROAD PIPE CORRIDOR
 STA: 9+00 TO STA: 18+00

DWG NO	C-2
SHEET NO	
PROJ NO	0606-007
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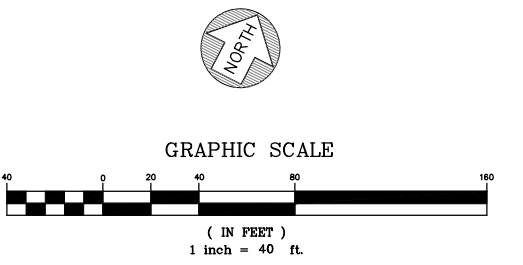
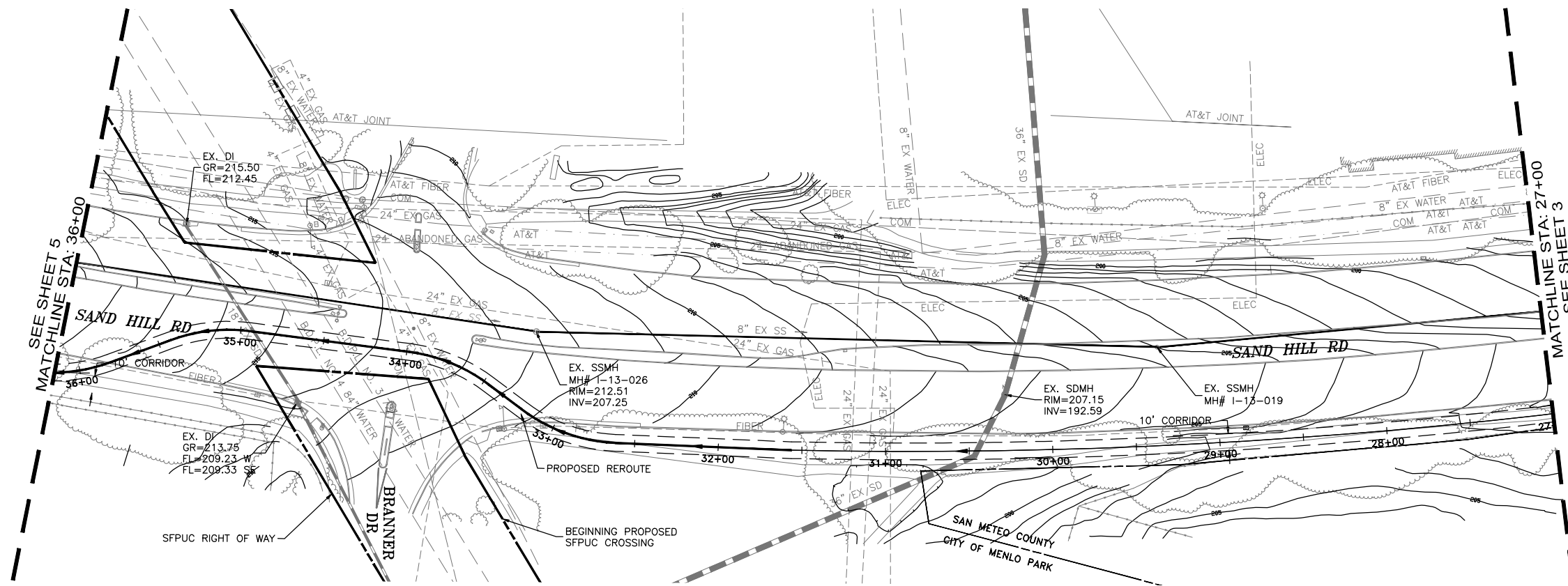


SHARON HEIGHTS RECYCLED WATER PROJECT

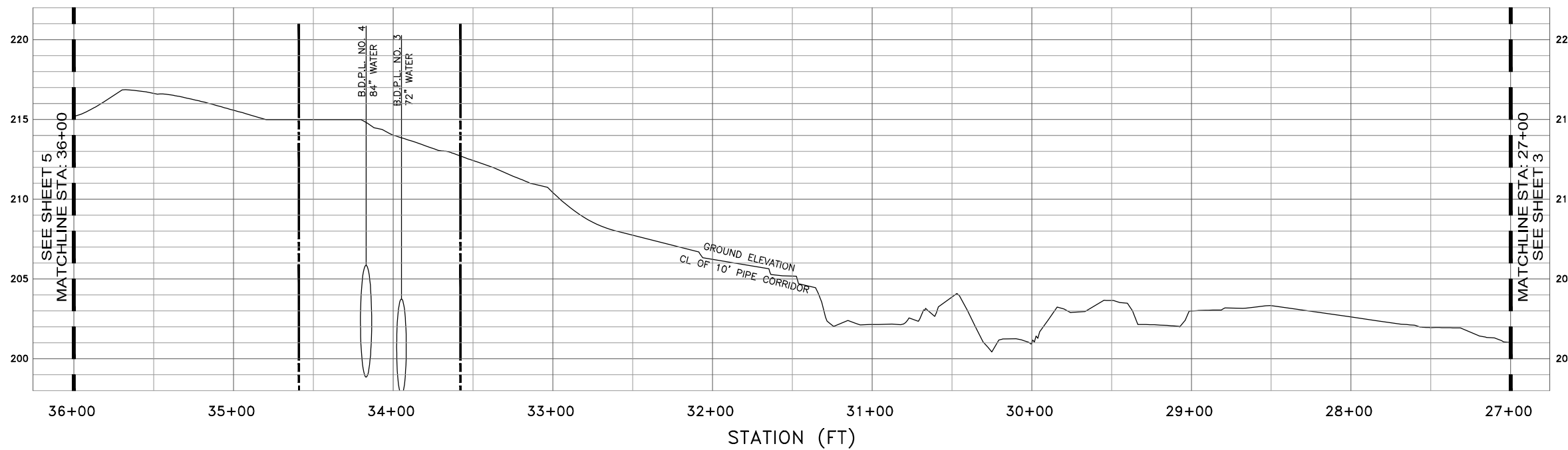
PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
 STA: 18+00 TO STA: 27+00

DWG NO	C-3
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PROJ NO	0606-007
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REV1	RD1	RB1	RA1	RR1

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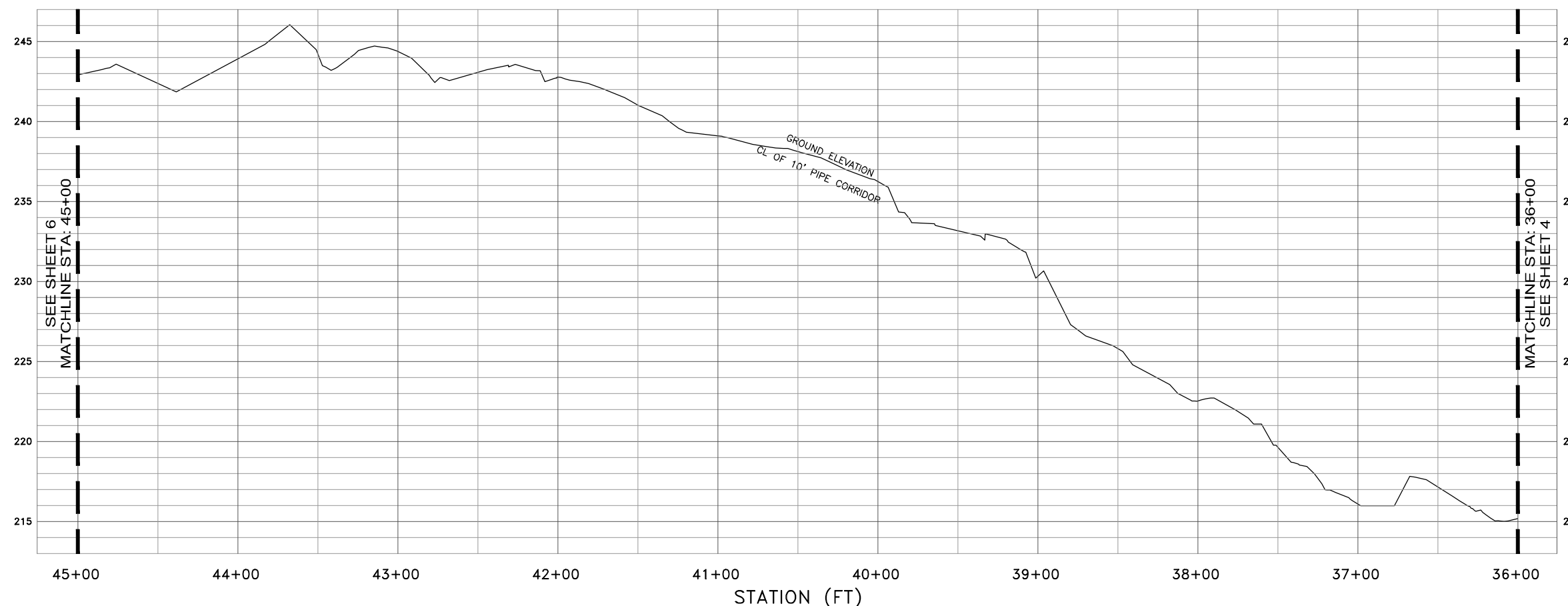
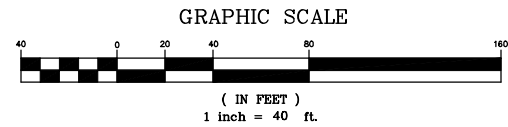
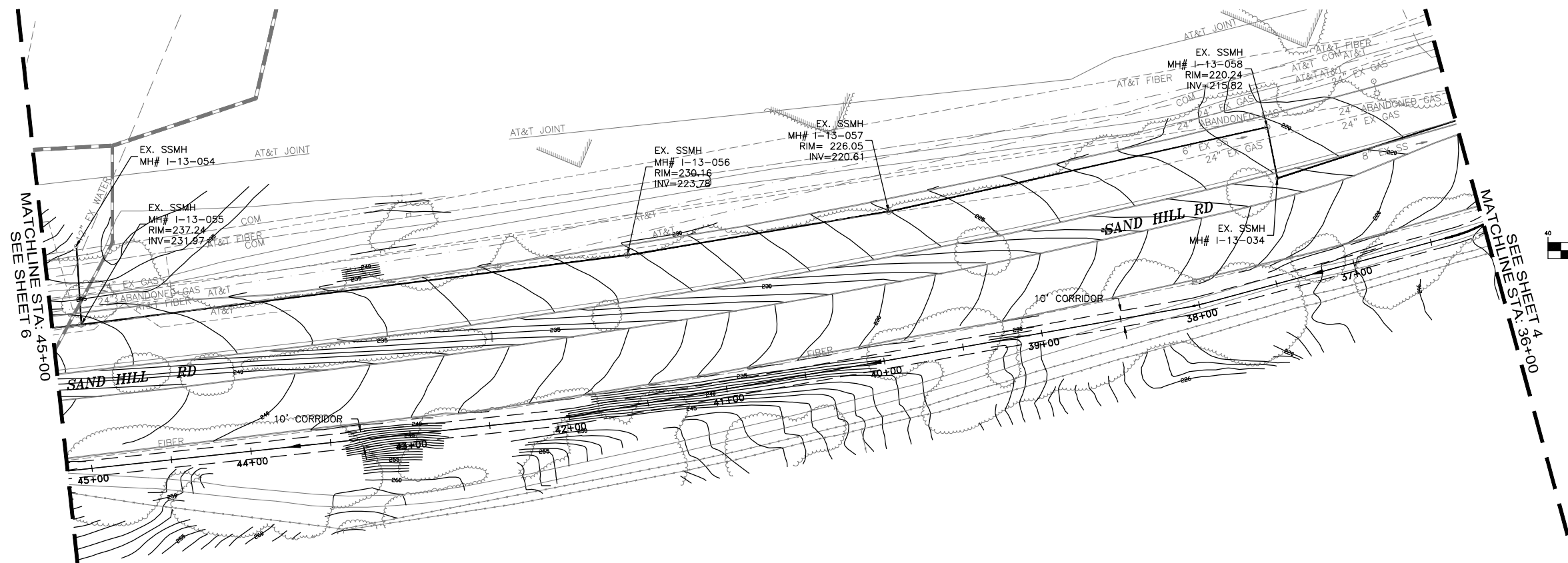
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SHARON HEIGHTS RECYCLED WATER PROJECT
PLAN/PROFILE
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REV	DATE	BY	APVD	DESCRIPTION
REV 5	RD5	RB5	RA5	RR5
REV 4	RD4	RB4	RA4	RR4
REV 3	RD3	RB3	RA3	RR3
REV 2	RD2	RB2	RA2	RR2
REV 1	RD1	RB1	RA1	RR1

DESIGNED	RJL	SUBMITTED:	RMC PROJ ENGR	C
DRAWN	SCC	APPROVED:	RMC ENGR	C
CHECKED	RJL			

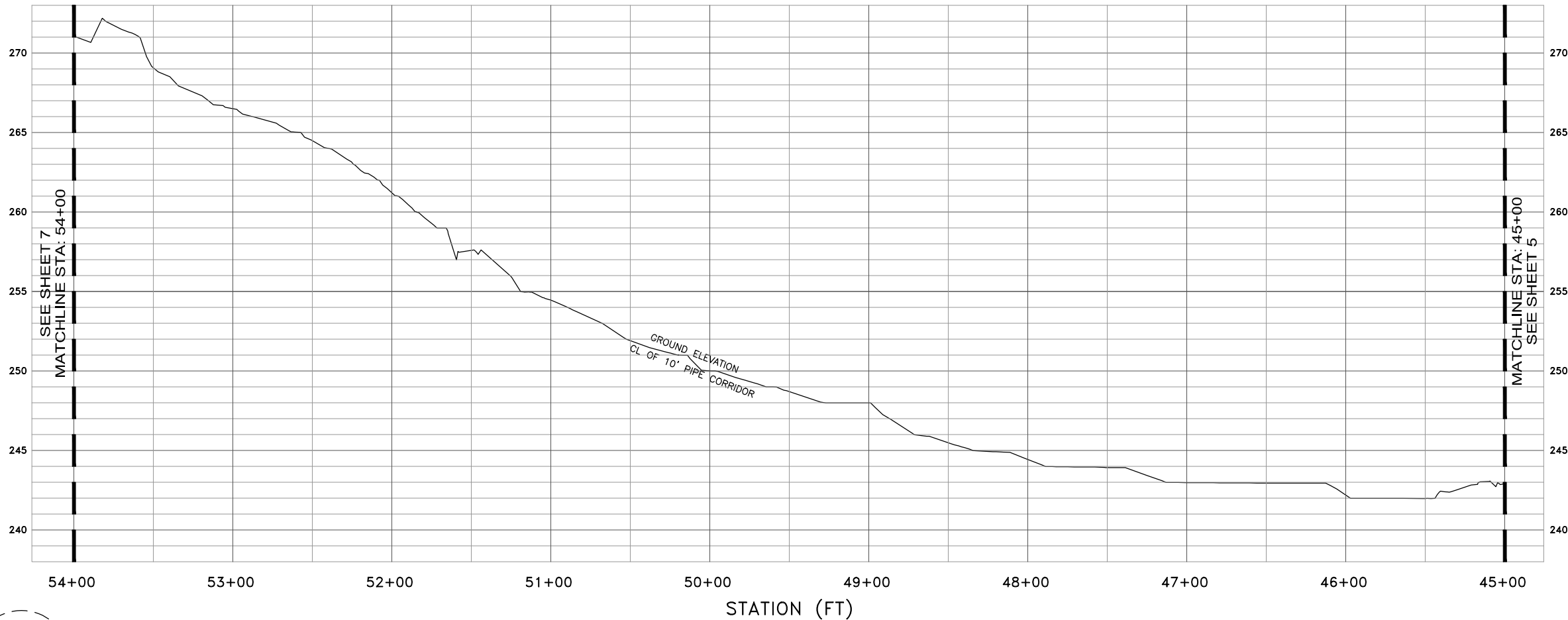
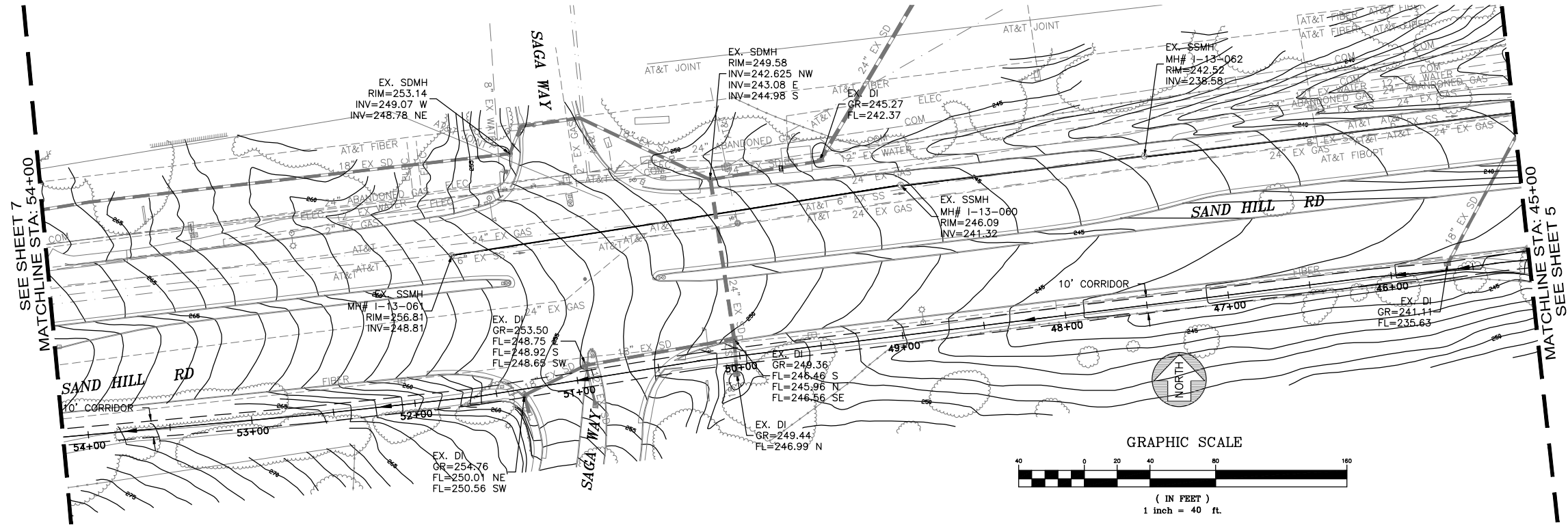


SHARON HEIGHTS RECYCLED WATER PROJECT

PLAN/PROFILE
 SAND HILL ROAD PIPE CORRIDOR
 STA: 36+00 TO STA: 45+00

DWG NO	C-5
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-1 - C-12 SANDHILL 20170710 Profile 8-01-17 09:33am Patrick \\XREFS\060118 Formatted 072516 | X-WBSJ-IBLK | Parcel Only | X-ALIGNMENT | Sheet 28 - Vine Street | IB-WBSJ-34x22 | Topo-Vine_030217 | kcc-



NOTE:
 SSFM DOWNSTREAM OF
 VALVE PIT SHALL
 EITHER BE HDPE SDR9 OR
 FUSIBLE PVC C900 DR14

PROFILE VIEW
 HORIZ: 1" = 40'
 VERT: 1" = 4'

PRELIMINARY
NOT FOR
CONSTRUCTION

0" = 1" — VERIFY SCALES —
 BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY

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WOODARD & CURRAN

REV	DATE	BY	APVD	DESCRIPTION
REV5	RD5	RB5	RA5	RR5
REV4	RD4	RB4	RA4	RR4
REV3	RD3	RB3	RA3	RR3
REV2	RD2	RB2	RA2	RR2
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DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

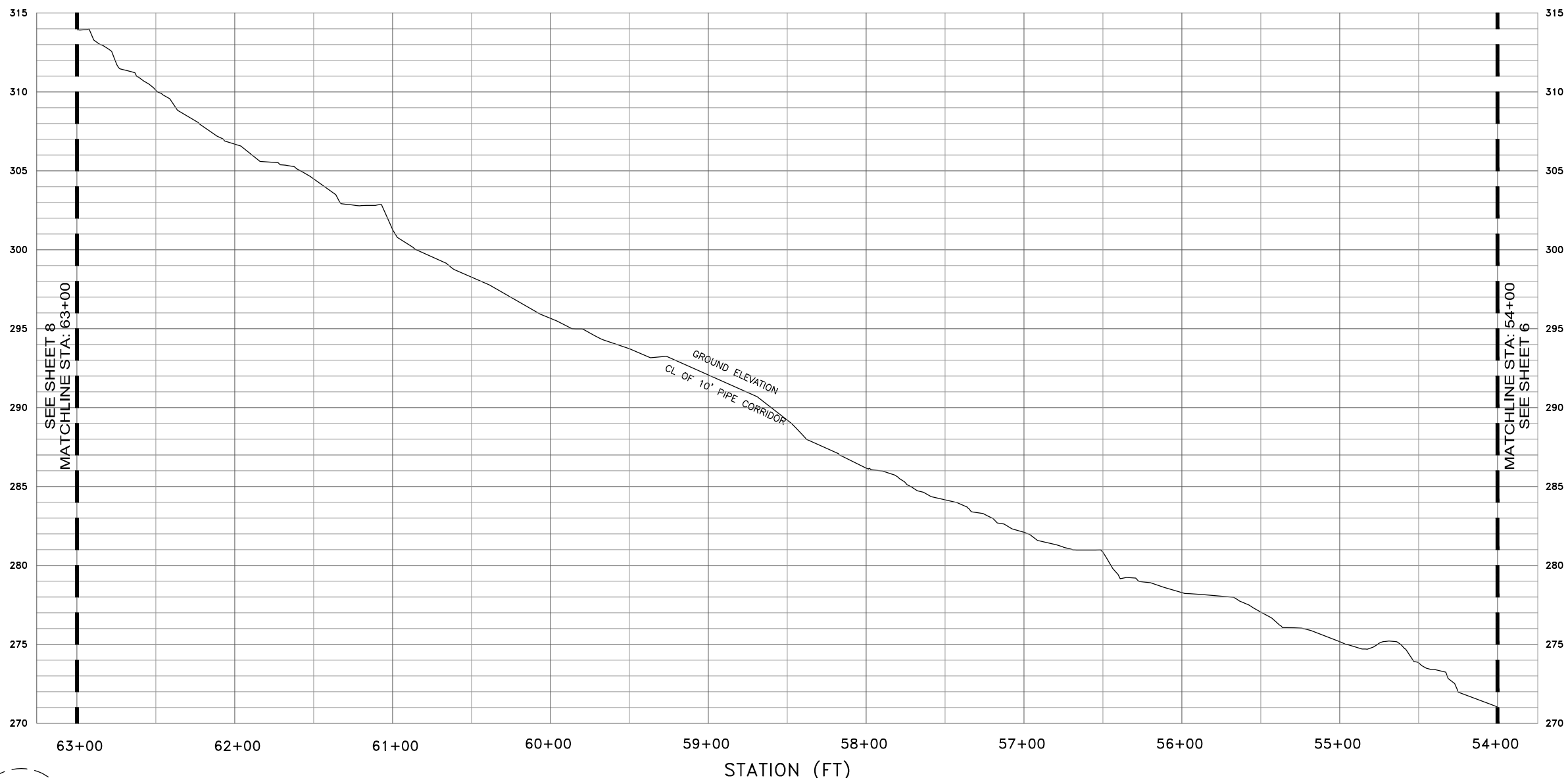
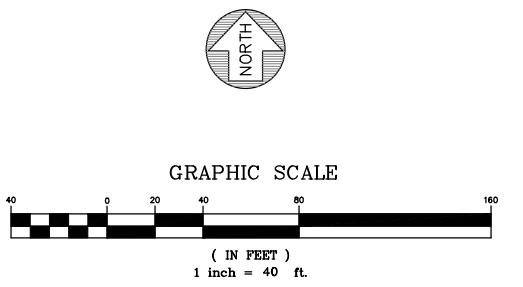
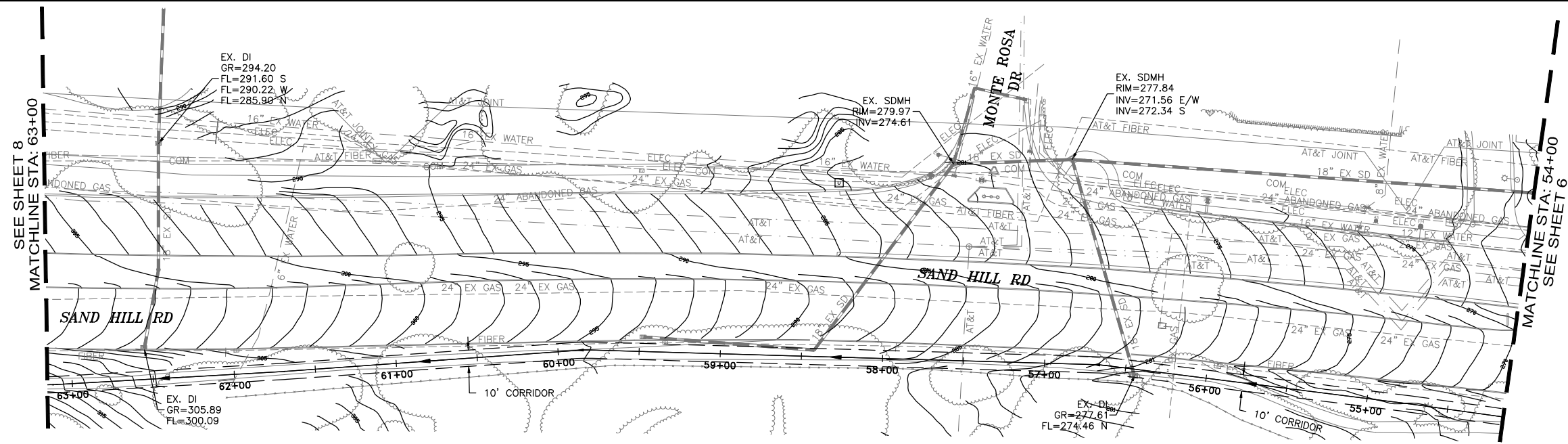
SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT
PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
 STA: 45+00 TO STA: 54+00

DWG NO	C-6
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-1 - C-12 SANDHILL 20170710 Profile 8-01-17 09:33am Patrick | XREFS: 060116 Formatted | 072516 | X-WBS: TBK | Parcel Only | X-ALIGNMENT | Sheet 28 - Vine Street | TB-WBS: 34x22 | Topo-Vine_030217 | KCC--



NOTE:
 SSFM DOWNSTREAM OF
 VALVE PIT SHALL
 EITHER BE HDPE SDR9 OR
 FUSIBLE PVC C900 DR14

PROFILE VIEW
 HORIZ: 1" = 40'
 VERT: 1" = 4'

PRELIMINARY
NOT FOR
CONSTRUCTION

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 SIZE DRAWING.
 IF NOT ONE INCH
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REV	DATE	BY	APVD	DESCRIPTION
REV5	RD5	RB5	RA5	RR5
REV4	RD4	RB4	RA4	RR4
REV3	RD3	RB3	RA3	RR3
REV2	RD2	RB2	RA2	RR2
REV1	RD1	RB1	RA1	RR1

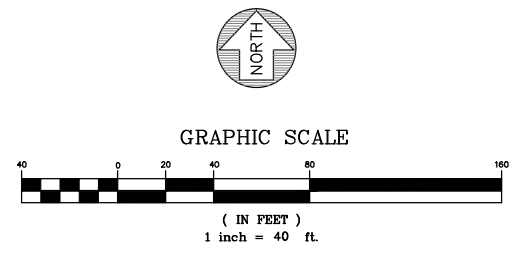
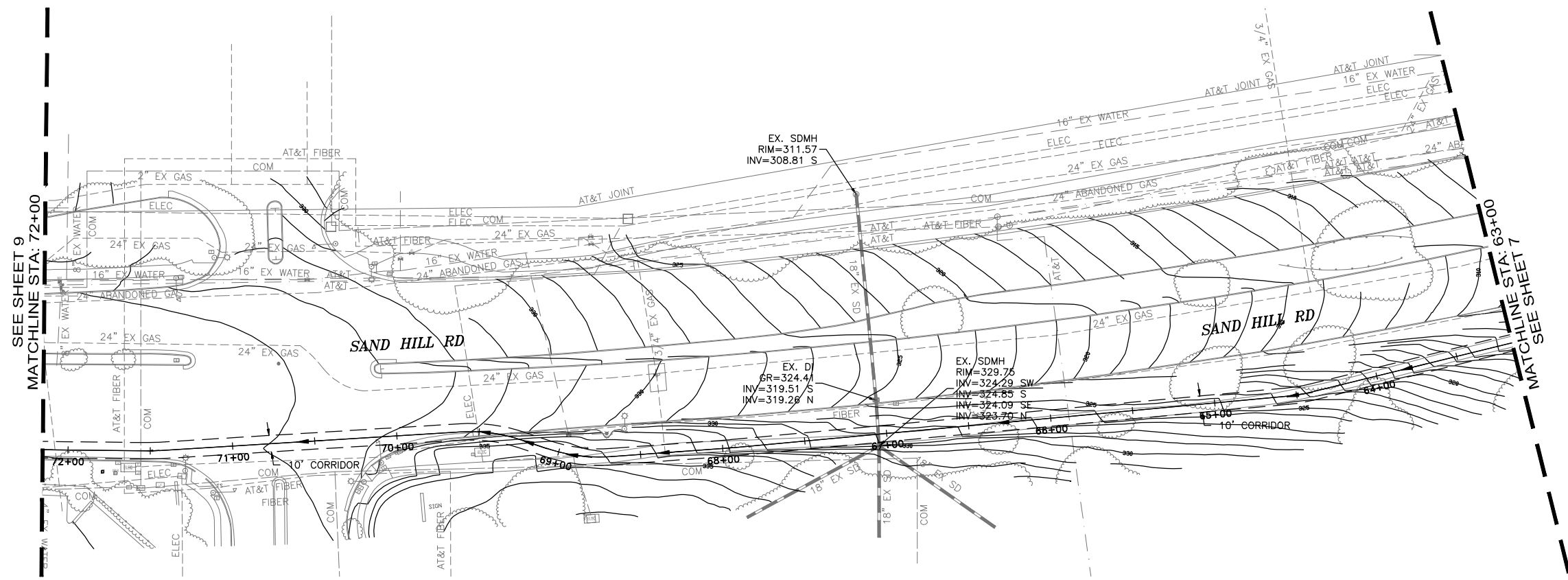
DESIGNED	RJL	SUBMITTED:	RMC PROJ ENGR	C
DRAWN	SCC	APPROVED:	RMC ENGR	C
CHECKED	RJL			

SHARON HEIGHTS RECYCLED WATER PROJECT

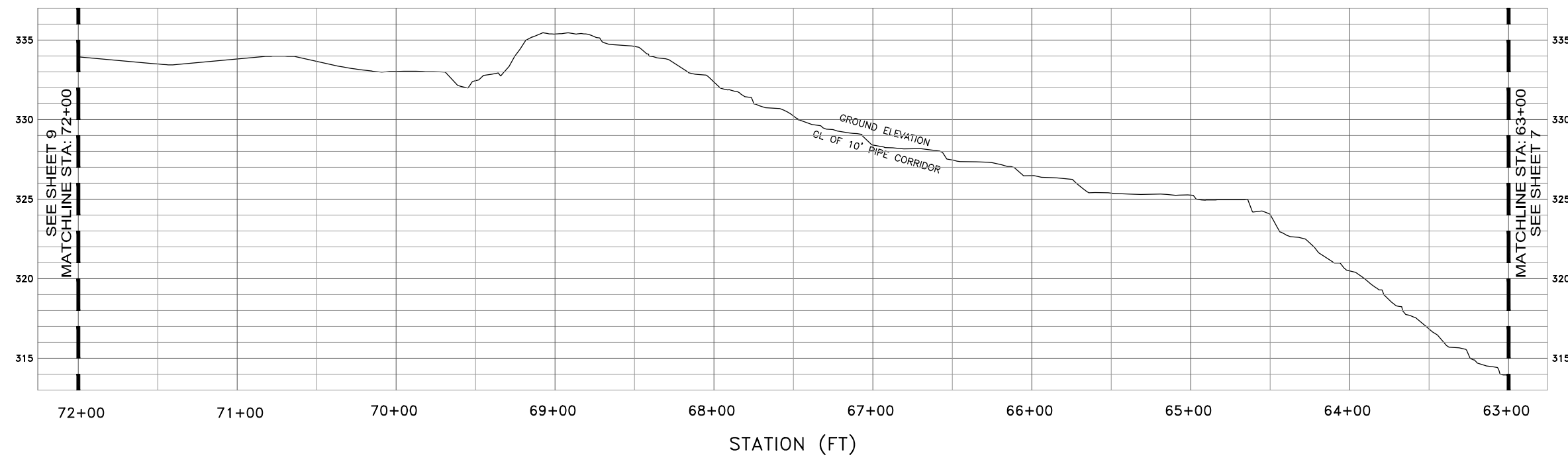
PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
STA: 54+00 TO STA: 63+00

DWG NO	C-7
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-1 - C-12 SANDHILL 20170710 Profile 8-01-17 09:33am Patrick \\XREFS\060118 Formatted 072516 | X-WBSD-IBLK | Parcel Only | X-ALIGNMENT | Sheet 28 - Vine Street | IB-WBSD-34x22 | Topo-Vine_030217 | kcc-



NOTE:
 SSFM DOWNSTREAM OF VALVE PIT SHALL EITHER BE HDPE SDR9 OR FUSIBLE PVC C900 DR14



PROFILE VIEW
 HORIZ: 1" = 40'
 VERT: 1" = 4'

PRELIMINARY
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CONSTRUCTION

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REV	DATE	BY	APVD	DESCRIPTION
REV5	RD5	RB5	RA5	RR5
REV4	RD4	RB4	RA4	RR4
REV3	RD3	RB3	RA3	RR3
REV2	RD2	RB2	RA2	RR2
REV1	RD1	RB1	RA1	RR1

DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C

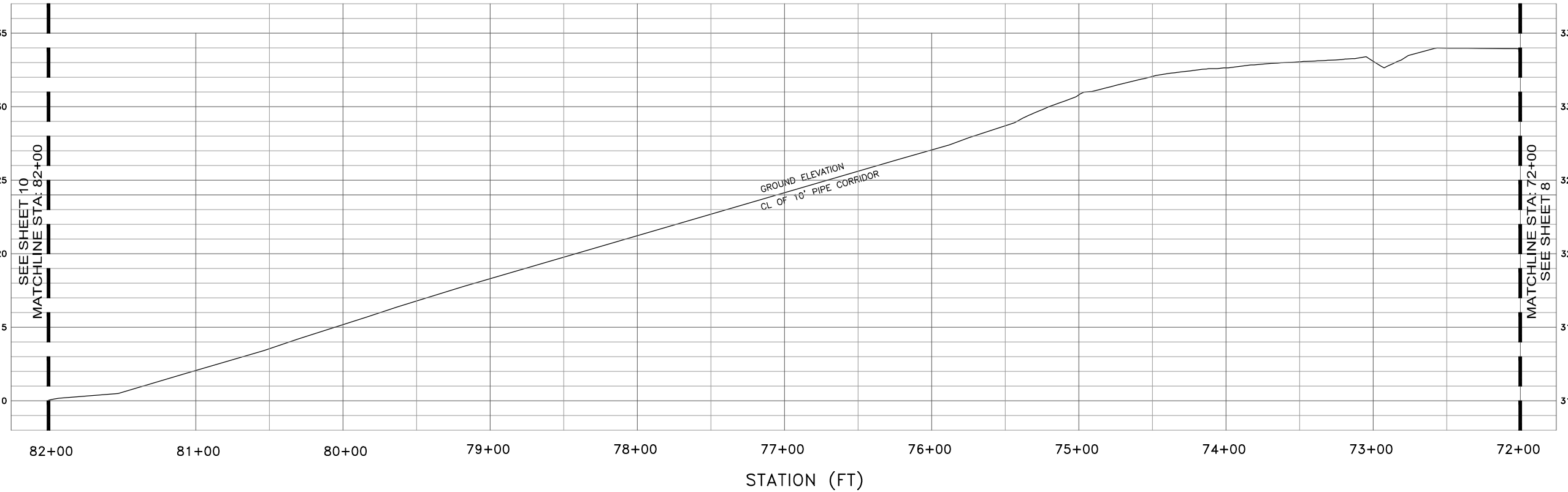
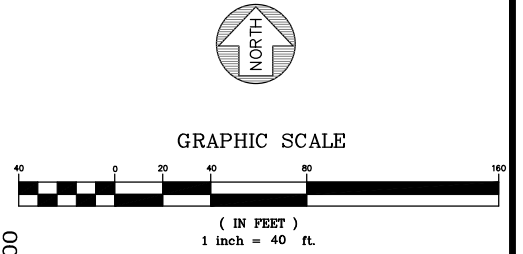
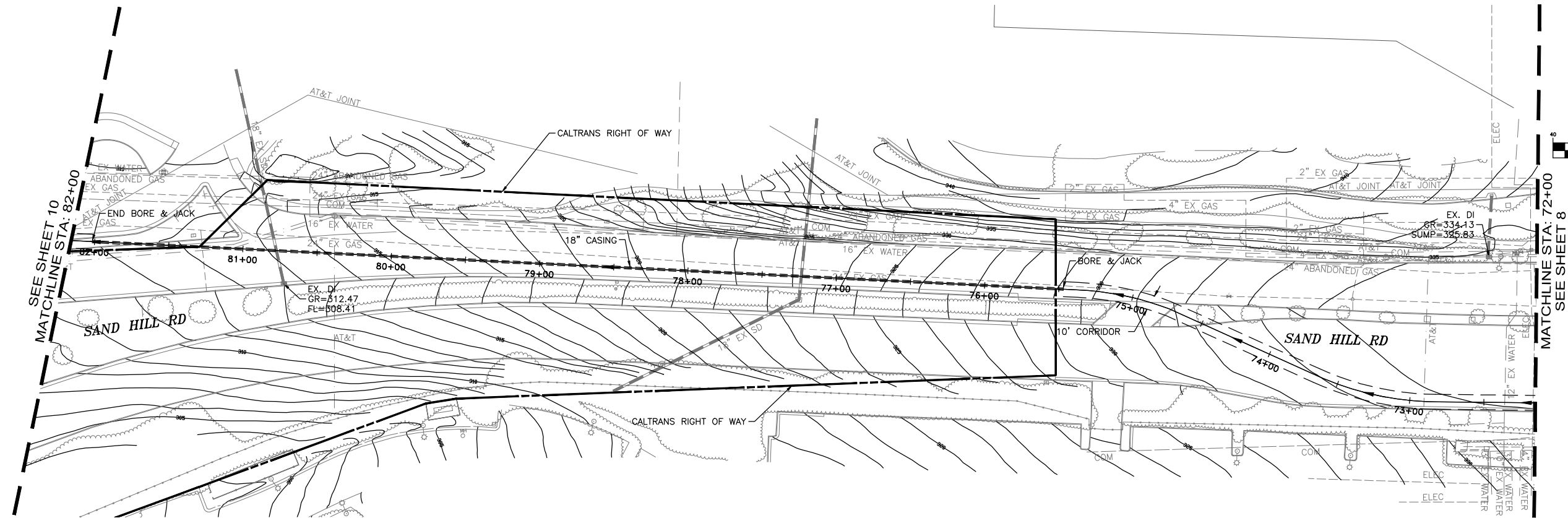


SHARON HEIGHTS RECYCLED WATER PROJECT

PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
 STA: 63+00 TO STA: 72+00

DWG NO	C-8
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-1 - C-12 SANDHILL 20170710 Profile 8-01-17 09:35am Patrick | XREFS: | 060118 Formatted | 072516 | X-WBS: | TBK | Parcel Only | X-ALIGNMENT | Sheet 28 - Vine Street | TB-WBS: | 34x22 | Topo-Vine_030217 | kcc-



NOTE:
 SSFM DOWNSTREAM OF
 VALVE PIT SHALL
 EITHER BE HDPE SDR9
 OR FUSIBLE PVC C900
 DR14

PROFILE VIEW
 HORIZ: 1" = 40'
 VERT: 1" = 4'

PRELIMINARY
NOT FOR
CONSTRUCTION

0" = 1" —
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 SIZE DRAWING.
 IF NOT ONE INCH
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 DRAWING, ADJUST
 SCALES ACCORDINGLY

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WOODARD & CURRAN

REV	DATE	BY	APVD	DESCRIPTION
REV 5	RD5	RB5	RA5	RR5
REV 4	RD4	RB4	RA4	RR4
REV 3	RD3	RB3	RA3	RR3
REV 2	RD2	RB2	RA2	RR2
REV 1	RD1	RB1	RA1	RR1

DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

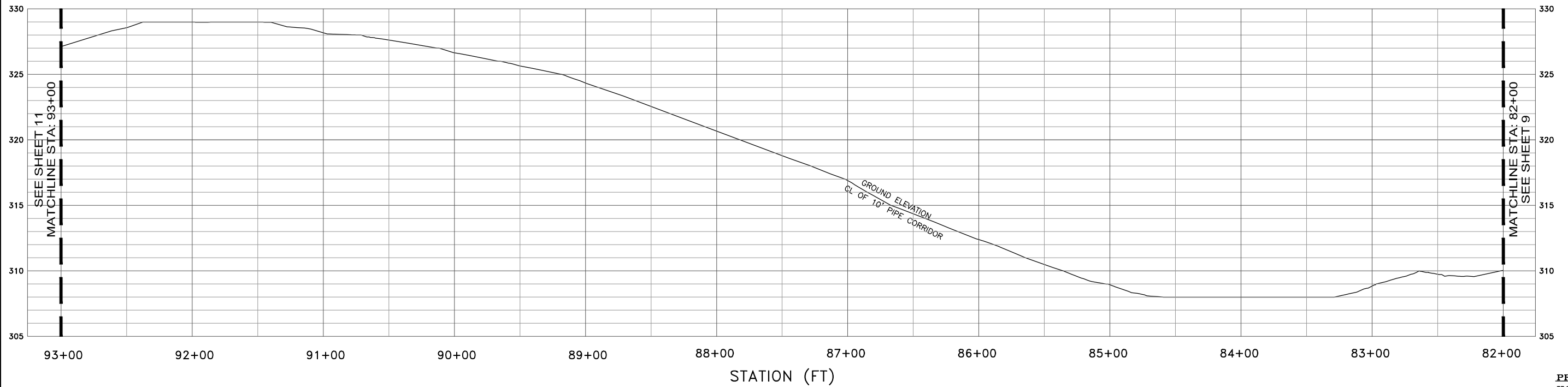
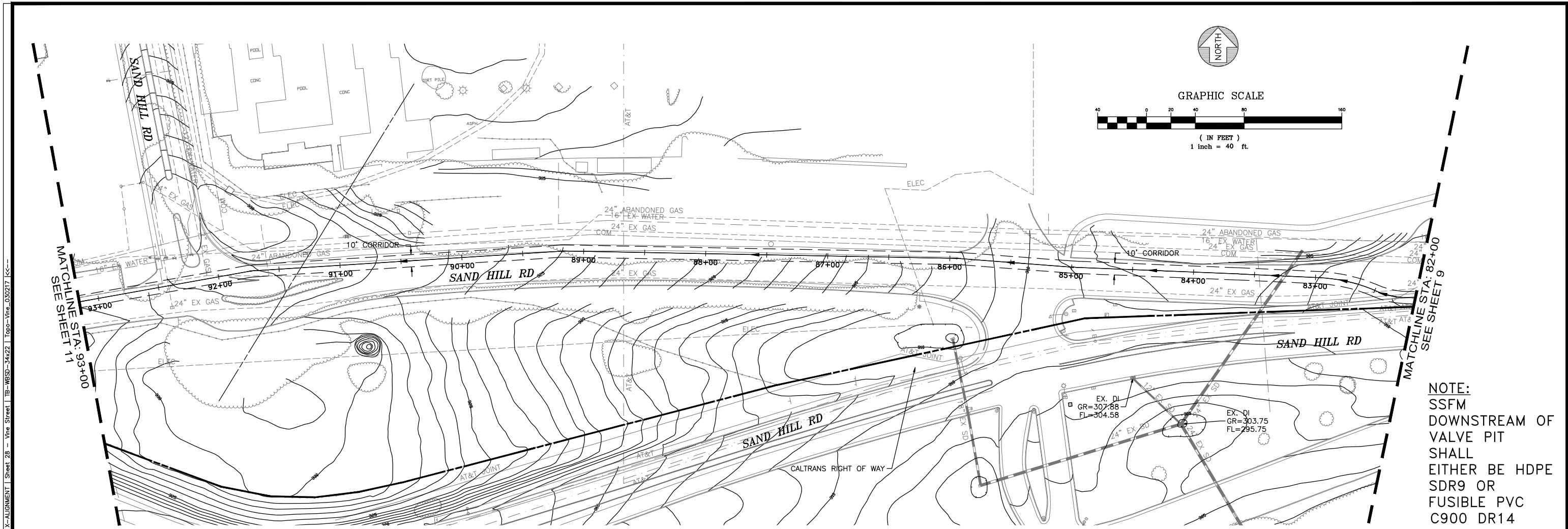
SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT

PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
 STA: 72+00 TO STA: 81+00

DWG NO	C-9
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017



PROFILE VIEW
HORIZ: 1" = 40'
VERT: 1" = 4'

FILENAME: C-1 - C-12 SANDHILL 20170710 Profile 8-01-17 09:33am Patrick \\XREFS\060118 Formatted 072516 \\X-WBSD-Tbl\K Parcel Only \\X-ALIGNMENT Sheet 28 - Vine Street \\TB-WBSD-34x22 \\Topo-Vine_030217 kcc-

PRELIMINARY
NOT FOR
CONSTRUCTION

0" = 1" —
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SIZE DRAWING.
IF NOT ONE INCH
LONG ON THIS
DRAWING, ADJUST
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REV	DATE	BY	APVD	DESCRIPTION
REV5		RD5	RA5	RR5
REV4		RD4	RA4	RR4
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		RD2	RA2	RR2
		RD1	RA1	RR1

DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

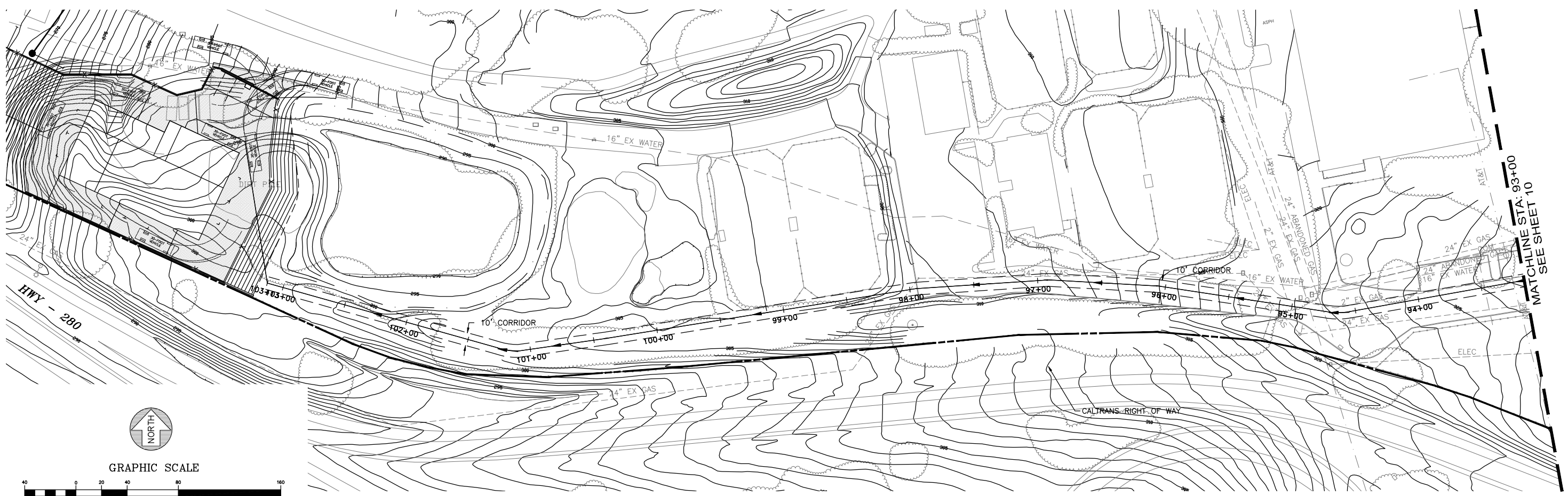
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APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT
PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
STA: 81+00 TO STA: 92+00

DWG NO	C-10
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-1 - C-12 SANDHILL 20170710 Profile 8-01-17 09:35am Patrick | XREFS: | 060116 Formatted | 072516 | X-WBSJ-IBLK | Parcel Only | X-ALIGNMENT | Sheet 28 - Vine Street | TB-WBSJ-34x22 | Topo-Vine_030217 | kcc-

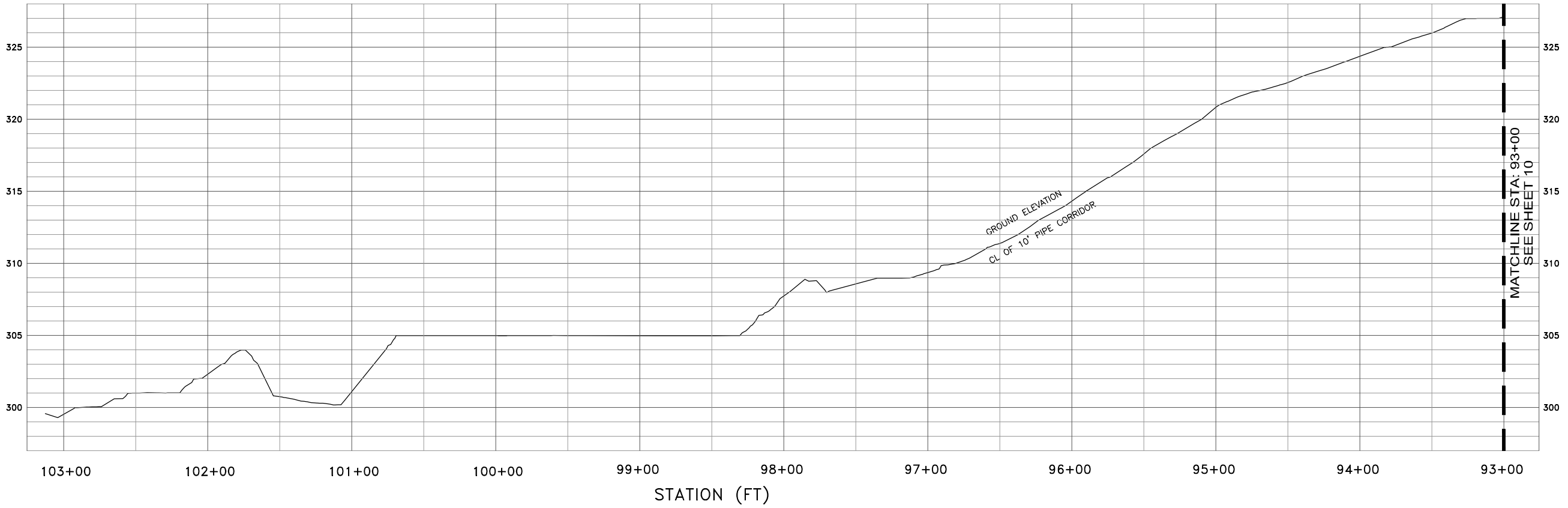


GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

NOTE:
SSFM DOWNSTREAM OF
VALVE PIT SHALL
EITHER BE HDPE SDR9 OR
FUSIBLE PVC C900 DR14



PROFILE VIEW
HORIZ: 1" = 40'
VERT: 1" = 4'

PRELIMINARY
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CONSTRUCTION

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WOODARD & CURRAN

REV	DATE	BY	APVD	DESCRIPTION
RA5	RD5	RB5	RA5	RR5
RA4	RD4	RB4	RA4	RR4
RA3	RD3	RB3	RA3	RR3
RA2	RD2	RB2	RA2	RR2
RA1	RD1	RB1	RA1	RR1

DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT
PLAN/PROFILE
SAND HILL ROAD PIPE CORRIDOR
STA: 92+00 TO STA: 102+00

DWG NO	C-11
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-1 - C-12 SANDHILL 20170710 Profile 8-01-17 09:33am Patrick | XREFS: 060116 Formatted | 072516 | X-WBSJ-IBLK | Parcel Only | X-ALIGNMENT | Sheet 28 - Vire Street | TB-WBSJ-34x22 | Topo-Vire_030217 | C-12



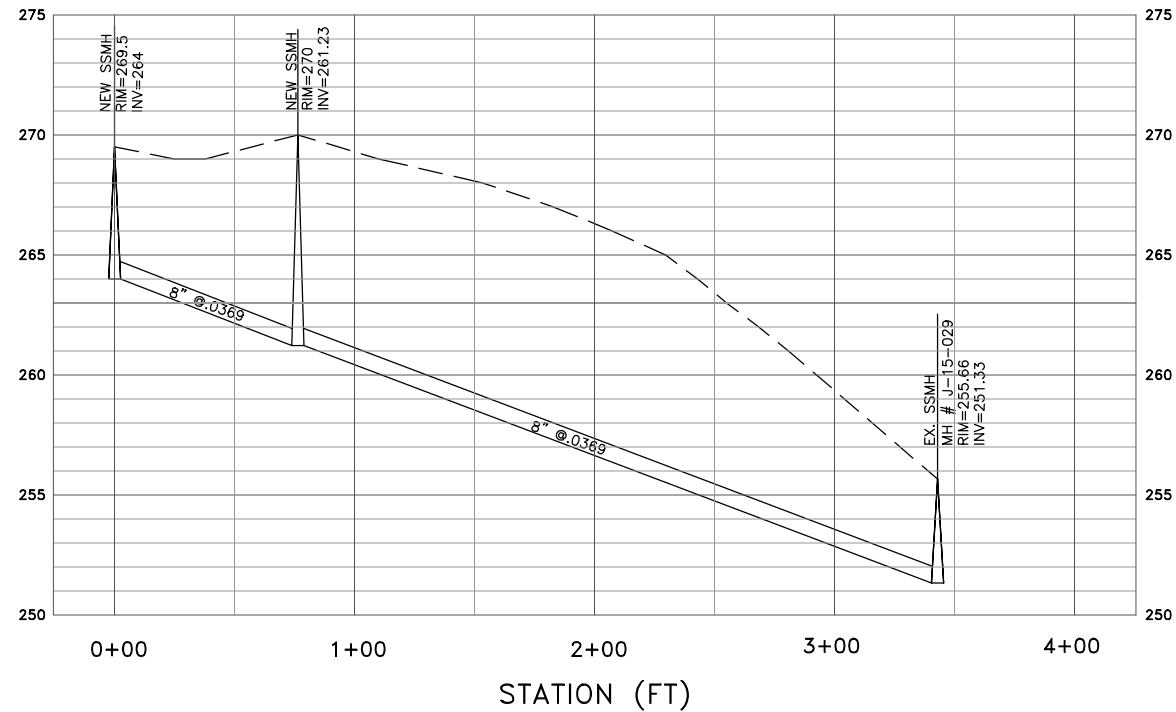
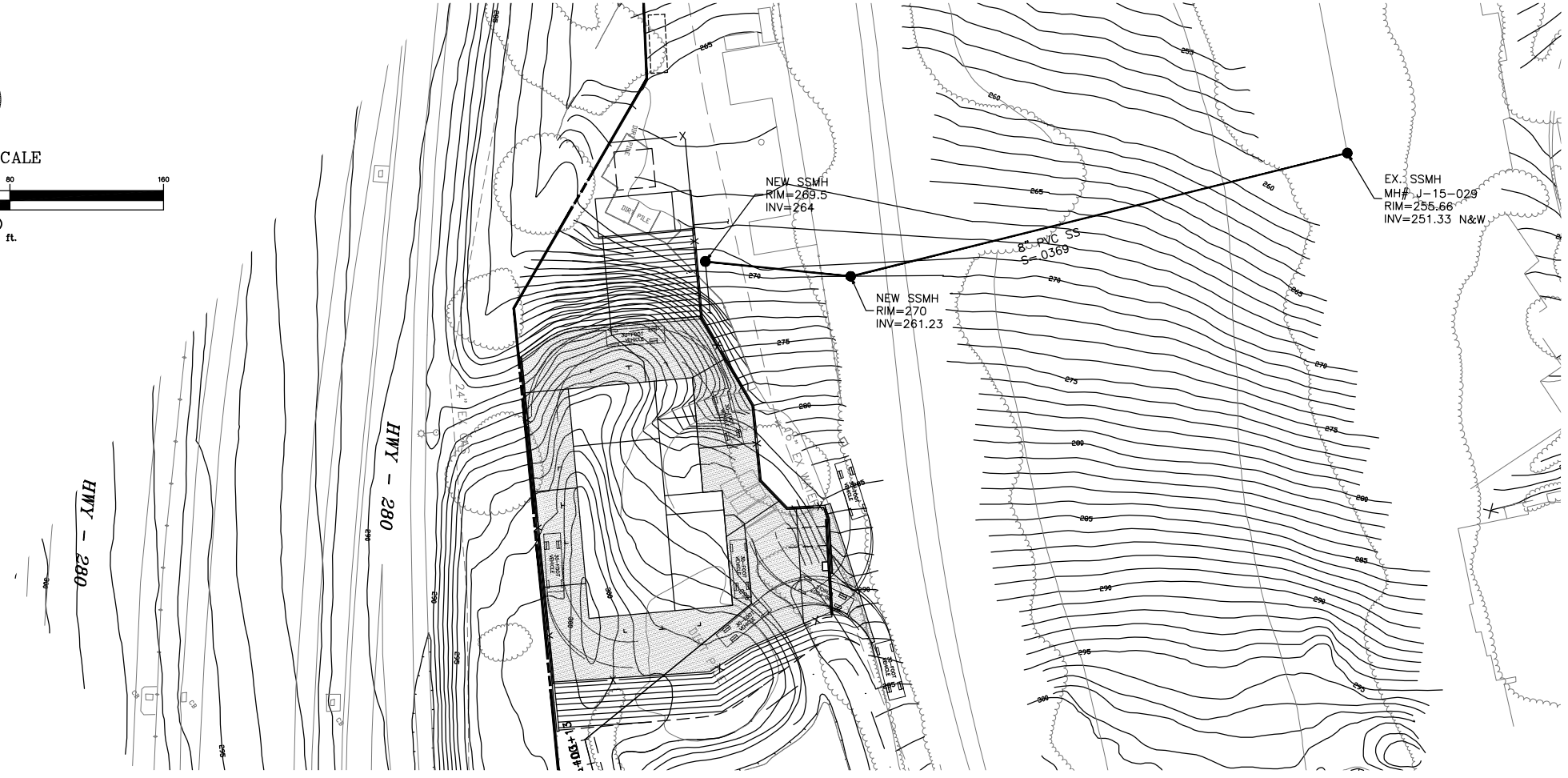
GRAPHIC SCALE



(IN FEET)
1 inch = 40 ft.

HWY - 280

HWY - 280



NOTE:
GRAVITY PVC PIPELINE
SHALL BE PVC C900
CLASS 150

PROFILE VIEW
HORIZ: 1" = 40'
VERT: 1" = 4'

PRELIMINARY
NOT FOR
CONSTRUCTION

0" = 1"
VERIFY SCALES
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LONG ON FULL
SIZE DRAWING.
IF NOT ONE INCH
LONG ON THIS
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SCALES ACCORDINGLY



REV	DATE	BY	APVD	DESCRIPTION
REV5	RD5	RB5	RA5	RR5
REV4	RD4	RB4	RA4	RR4
REV3	RD3	RB3	RA3	RR3
REV2	RD2	RB2	RA2	RR2
REV1	RD1	RB1	RA1	RR1

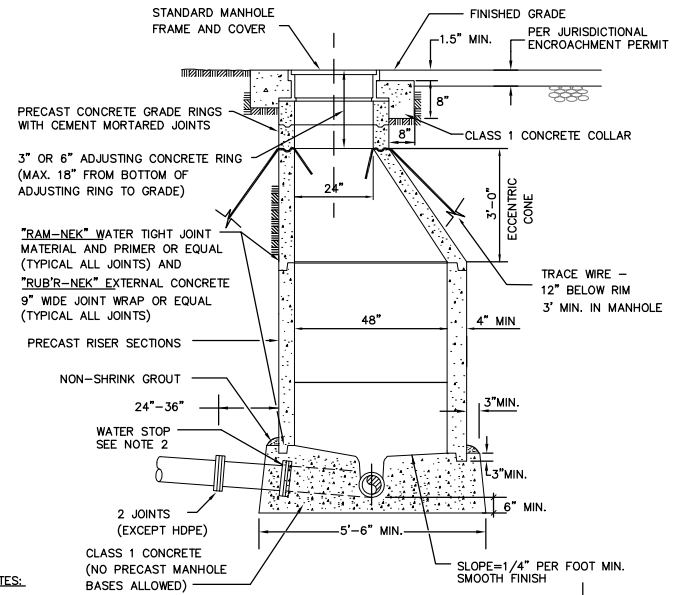
DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C



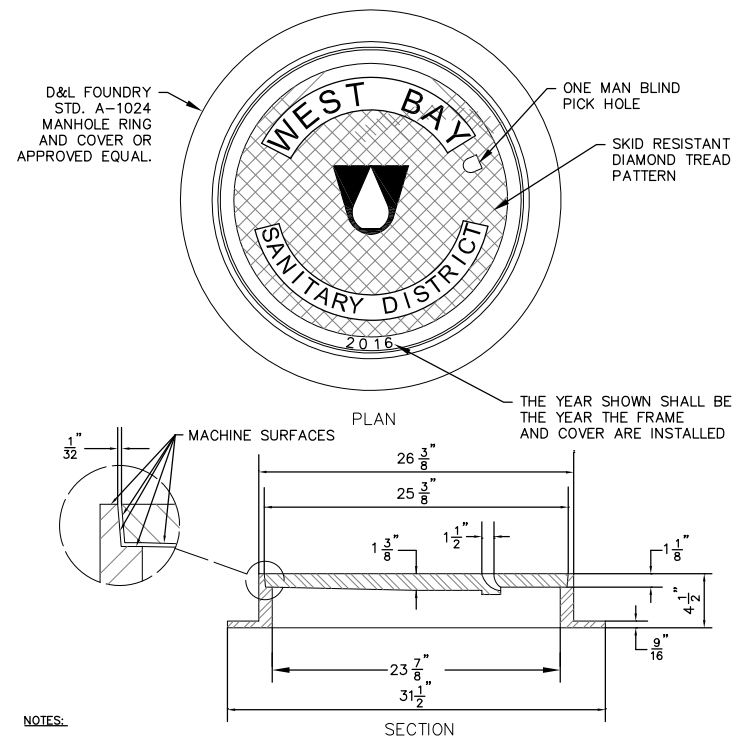
SHARON HEIGHTS RECYCLED WATER PROJECT
PLAN/PROFILE
SOLIDS DISPOSAL PIPELINE
STA: 0+00 TO STA: 4+00

DWG NO	C-12
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017



- NOTES:**
- 1) MANHOLE BASES SHALL BE PLACED ON IMPORTED BEDDING MATERIAL COMPACTED TO 95% RELATIVE COMPACTION.
 - 2) AN APPROVED WATER STOP SHALL BE INSTALLED ON ALL FLEXIBLE PIPE ENTERING OR LEAVING A MANHOLE, AND CENTERED UNDER MANHOLE WALL.
 - 3) INSTALL "RAM-NEK" WATER TIGHT JOINT MATERIAL OR EQUAL BETWEEN EACH JOINT OF CONE AND BARREL SECTIONS TO MAKE A FLEXIBLE WATER TIGHT JOINT. AFTER JOINT IS MADE, TRIM JOINT SMOOTH ON INSIDE OF MANHOLE.
 - 4) STEPS IN MANHOLES ARE NOT ALLOWED.
 - 5) TRACE WIRE SHALL BE SOLID AND COATED 8 GAUGE COPPER WIRE PLACED 12" BELOW RIM WITH 3' COILED UP IN MANHOLE.
 - 6) MANHOLES SHALL BE VACUUM TESTED.
 - 7) ECCENTRIC CONE SHALL BE POSITIONED IN SUCH A MANNER OVER CENTER OF PIPE FOR INSTALLATION OF FLOW METER SENSOR BRACKET.
 - 8) CONCRETE PLATFORMS MAY BE REQUIRED ON A CASE BY CASE BASIS.

MANHOLE FOR 21" DIAMETER AND SMALLER PIPE



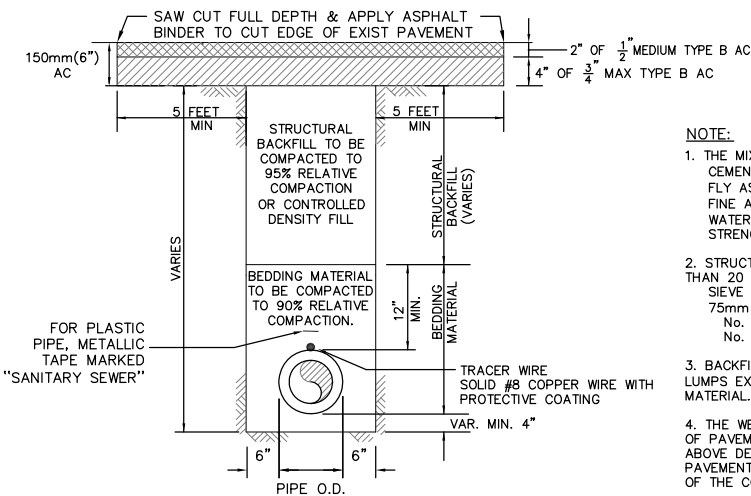
- NOTES:**
- 1) CAST IRON FOR FRAME AND COVER SHALL BE CLASS 30 MINIMUM PER ASTM A-48.
 - 2) COVERS SHALL BE H-20, FULL VEHICULAR TRAFFIC LOADING, RATED AND SHALL NOT EXCEED 145 POUNDS IN WEIGHT.
 - 3) THE FRAME AND COVER SHALL BE PAINTED OR DIPPED IN ASPHALT PRIOR TO LEAVING FOUNDRY.

MANHOLE FRAME AND COVER

BEDDING MATERIAL
GRANULAR BEDDING MATERIAL REQUIREMENTS (ASTM D448 SIZE #67)

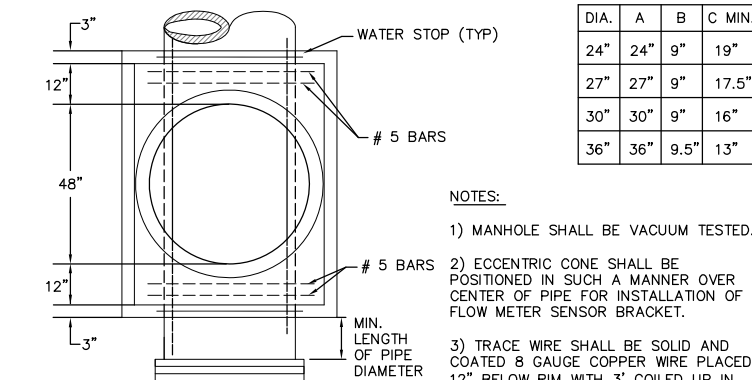
SIEVE SIZES	PERCENTAGE PASSING
1"	100
3/4"	90-100
3/8"	20-55
#4	0-10
#8	0-5

- NOTE:**
1. THE MIX DESIGN FOR CDF SHALL MEET THE FOLLOWING REQUIREMENTS:
CEMENT 50-100 LB/CU. YD
FLY ASH, CLASS F 10-2000 LB/CU. YD
FINE AGGREGATE 2600-3100 LB/CU. YD
WATER 325/580 LB/CU. YD
STRENGTH @ 28 DAY 50-100 PSI
 2. STRUCTURAL BACKFILL MATERIAL: MATERIAL WITH SAND EQUIVALENT NOT LESS THAN 20 AND SIEVE GRADATION BY MATERIAL AS FOLLOWS:
SIEVE SIZE % PASSING SIEVE
75mm (3") 100
No. 4 35-100
No. 30 20-100
 3. BACKFILL MATERIAL: MATERIAL FROM EXCAVATION FREE FROM STONES OR LUMPS EXCEEDING 75mm (3"), VEGETABLE MATTER OR OTHER UNSATISFACTORY MATERIAL.
 4. THE WEST BAY SANITARY DISTRICT SHALL BE RESPONSIBLE FOR THE PAYMENT OF PAVEMENT RESTORATION OVER THE MAXIMUM TRENCH WIDTH AS SHOWN ON THE ABOVE DETAIL. ANYTHING BEYOND THE MAXIMUM TRENCH WIDTH, INCLUDING PAVEMENT FAILURE CAUSED BY THE CONTRACTOR, SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR, UNLESS AUTHORIZED BY THE DISTRICT.

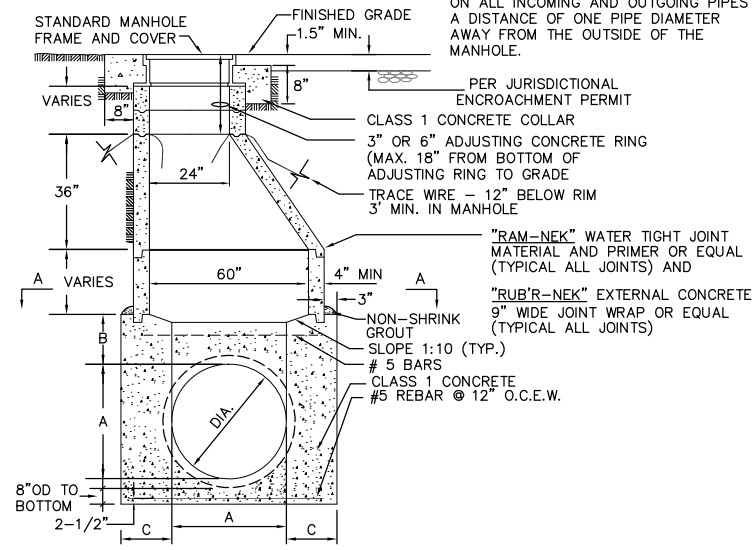


FULL DEPTH AC PAVEMENT, 150mm(6") MIN. BUT SHALL NOT BE LESS THAN EXISTING EXISTING PAVEMENT SECTION.

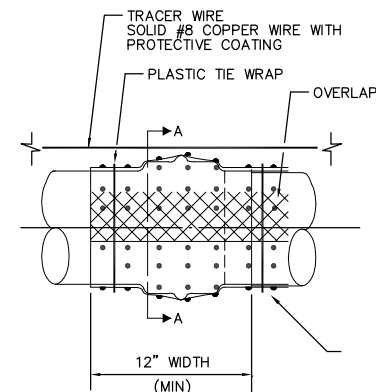
UTILITY TRENCH-CITY OF MENLO PARK-RIGHT OF WAY (MODIFIED PER CITY OF MENLO PARK STANDARDS)



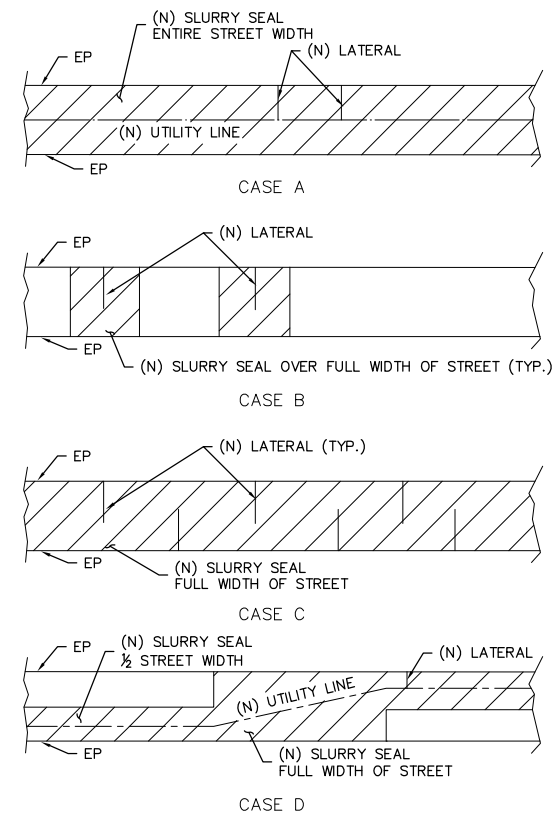
- NOTES:**
- 1) MANHOLE SHALL BE VACUUM TESTED.
 - 2) ECCENTRIC CONE SHALL BE POSITIONED IN SUCH A MANNER OVER CENTER OF PIPE FOR INSTALLATION OF FLOW METER SENSOR BRACKET.
 - 3) TRACE WIRE SHALL BE SOLID AND COATED 8 GAUGE COPPER WIRE PLACED 12" BELOW RIM WITH 3' COILED UP IN MANHOLE.
 - 4) SHEAR JOINT SHALL BE INSTALLED ON ALL INCOMING AND OUTGOING PIPES A DISTANCE OF ONE PIPE DIAMETER AWAY FROM THE OUTSIDE OF THE MANHOLE.



MANHOLE FOR 24" DIAMETER AND LARGER PIPE



ROOT CONTROL SYSTEM



STANDARDS FOR TRENCH CONSTRUCTION SEAL COAT

- APPLICATION:**
- 1) ALL NEW MAIN SEWER PROJECTS.
 - 2) ALL NEW OR REPLACEMENT SANITARY SEWER LATERAL CONNECTIONS.
 - 3) SANITARY SEWER LATERAL REPAIRS.

PRELIMINARY NOT FOR CONSTRUCTION

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WOODARD & CURRAN

REV	DATE	BY	APVD	DESCRIPTION

DESIGNED	RJL	SUBMITTED	RMC PROJ ENGR	C
DRAWN	SCC	APPROVED:	RMC ENGR	C
CHECKED	RJL			

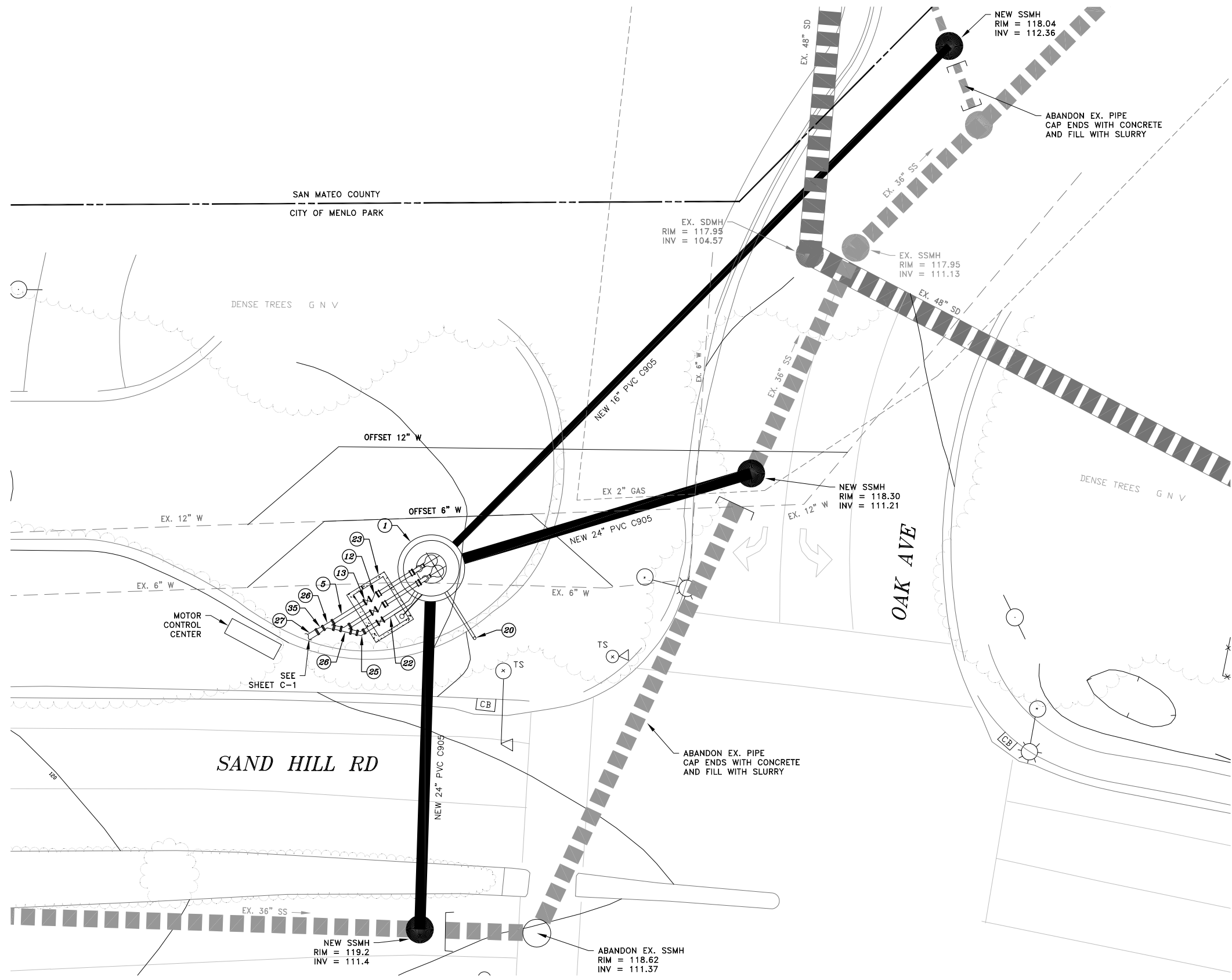
WEST BAY SANITARY DISTRICT

SHARON HEIGHTS RECYCLED WATER PROJECT

PIPELINE DETAILS

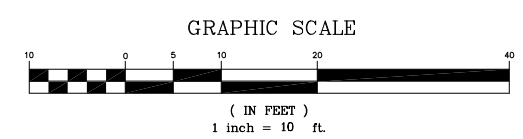
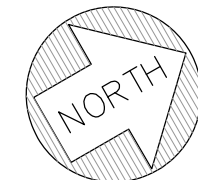
DWG NO	C-13
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-13 SAND HILL - Details 8-01-17 09:36am Patrick XREFS: X=MSD-TBLX Y=C



LEGEND:

- ① 10' DIAMETER CONCRETE PIPE WET WELL
- ② DUPLEX FLYGT PUMP SYSTEM
- ③ EPOXY FUSION COATED, CAST IRON DISCHARGE CONNECTION WITH BRACKETS.
- ④ STAINLESS STEEL ANCHOR BOLTS, 4 TOTAL EACH PUMP.
- ⑤ 8" DIP DISCHARGE PIPING.
- ⑥ TYPE 316 STAINLESS STEEL CHAIN & CABLE HOLDER AND POWER CABLE
- ⑦ STAINLESS STEEL GUIDE BARS (CONTINUOUS, NON-BOLTED RAIL)
- ⑧ INTERMEDIATE GUIDE BAR BRACKET.
- ⑨ 8" LONG RADIUS ELL.
- ⑩ TRAFFIC DUTY, SINGLE DOOR FLYGT ACCESS COVER, AS RECOMMENDED BY FLYGT WITH ALUMINUM GRATE SAFETY HATCH.
- ⑪ 8" FLANGE COUPLING ADAPTER.
- ⑫ 8" CHECK VALVE
- ⑬ 8" FULL PORTED PLUG VALVE
- ⑭ SUBMERSIBLE SUMP PUMP IN PIT
- ⑮ CONCRETE PIPE SUPPORTS WITH 1/8" BUNA-N LINING
- ⑯ WATER STOP
- ⑰ HEAVY DUTY, DOUBLE DOOR ACCESS COVER 48" X 72" ACTUAL OPENING, SUITABLE FOR H-20 LOADING, WITH ALUMINUM GRATE SAFETY HATCH.
- ⑱ PRESSURE GAUGE WITH SHUTOFF VALVE AND DIAPHRAGM SEAL. ELEVATION AS DIRECTED BY DISTRICT. TYPICAL OF EACH DISCHARGE LINE, 2 TOTAL. PROVIDE 90° ELL TO READ GAUGES EASILY.
- ⑲ UPPER GUIDE BAR BRACKET
- ⑳ VENT
- ㉑ GROUT CIRCLE
- ㉒ 8" DIP DRAIN BACK TO STATION
- ㉓ 5' X 7' REINFORCED CONCRETE VALVE VAULT (4,000 PSI)
- ㉔ FORCE MAIN WALL PENETRATION DETAIL
- ㉕ 8" 45° DIP BEND
- ㉖ 8" X 8" X 8" DIP WYE
- ㉗ 12" HDPE FORCE MAIN
- ㉘ NEW HOSE BIB WITH BACKFLOW PREVENTER.
- ㉙ COPPER WATER PIPE
- ㉚ 24" PVC C905
- ㉛ PIPE THRUST BRACE
- ㉜ NOT USED
- ㉝ 1 1/4" SCHED. 40 PVC WITH CHECK VALVE NO JOINTS WITHIN EXISTING WET WELL.
- ㉞ 6"x 8" REDUCER
- ㉟ 8" X 12" HDPE ADAPTOR
- ㊱ NEW HOSE BIB WITH BACKFLOW PREVENTER



**PRELIMINARY
NOT FOR
CONSTRUCTION**

0" = 1" —
VERIFY SCALES —
BAR IS ONE INCH
LONG ON FULL
SIZE DRAWING.
IF NOT ONE INCH
LONG ON THIS
DRAWING, ADJUST
SCALES ACCORDINGLY

FREYER & LAURETA, INC.
188 South San Mateo Drive • San Mateo, CA 94401
(650) 334-0001 • Fax (650) 334-9802 • www.freyerlaureta.com



REV	DATE	BY	APVD	DESCRIPTION

DESIGNED	RJL	SUBMITTED:	RMC PROJ ENGR	C
DRAWN	SCC	APPROVED:	RMC ENGR	C
CHECKED	RJL			

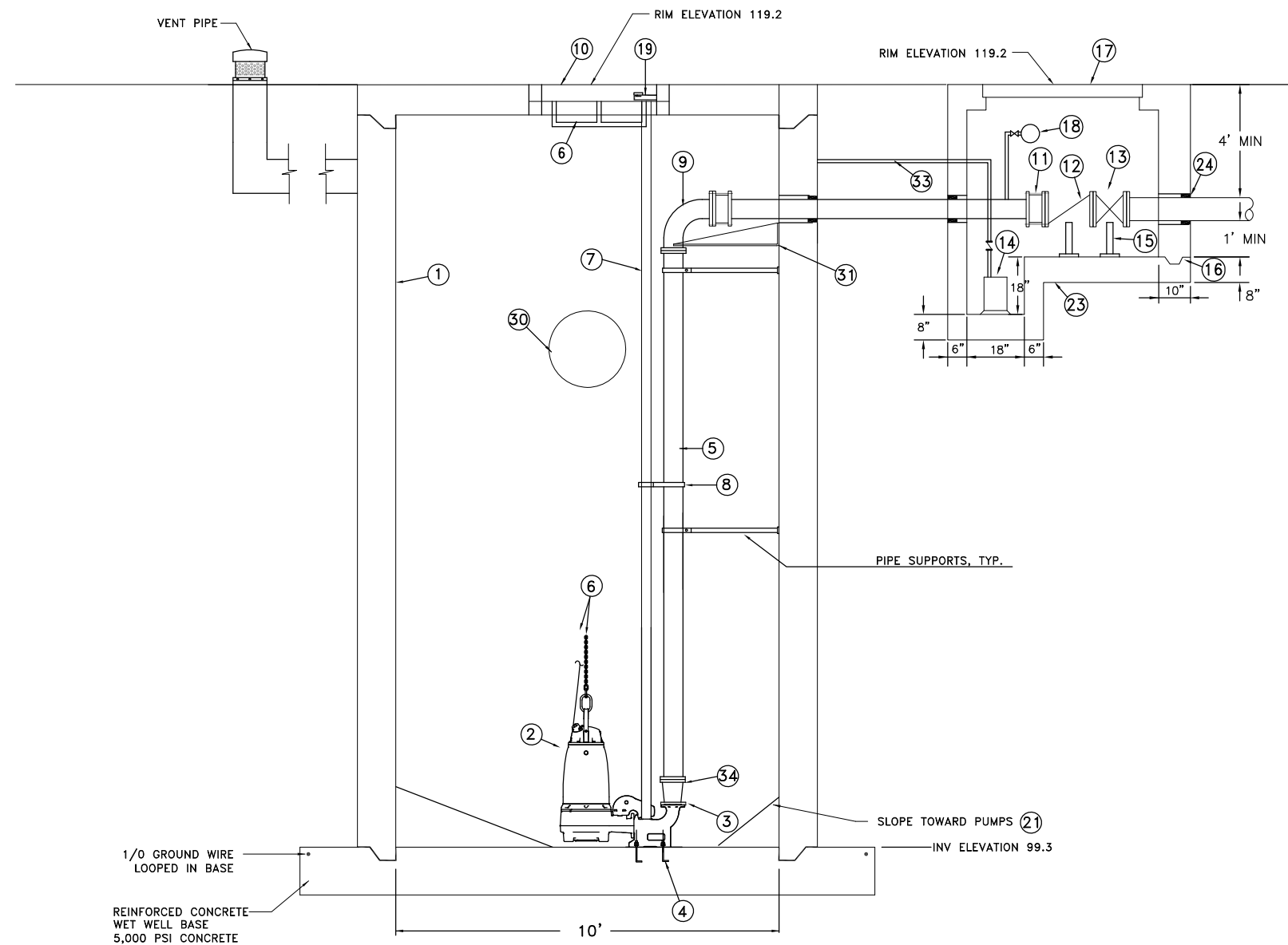


SHARON HEIGHTS RECYCLED WATER PROJECT

INFLUENT PUMP STATION SITE PLAN

DWG NO	C-14
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-13 - C-16 Sand Hill PS - 8-01-17 09:37am Patrick | XREFS | Y-WBSD-TBULK | K<<-
 Lost Saved By: Patrick 7-31-17 05:26pm



SECTION
NOT TO SCALE

LEGEND:

- ① 10' DIAMETER CONCRETE PIPE WET WELL
- ② DUPLEX FLYGT PUMP SYSTEM
- ③ EPOXY FUSION COATED, CAST IRON DISCHARGE CONNECTION WITH BRACKETS.
- ④ STAINLESS STEEL ANCHOR BOLTS, 4 TOTAL EACH PUMP.
- ⑤ 8" DIP DISCHARGE PIPING.
- ⑥ TYPE 316 STAINLESS STEEL CHAIN & CABLE HOLDER AND POWER CABLE
- ⑦ STAINLESS STEEL GUIDE BARS (CONTINUOUS, NON-BOLTED RAIL)
- ⑧ INTERMEDIATE GUIDE BAR BRACKET.
- ⑨ 8" LONG RADIUS ELL.
- ⑩ TRAFFIC DUTY, SINGLE DOOR FLYGT ACCESS COVER, AS RECOMMENDED BY FLYGT WITH ALUMINUM GRATE SAFETY HATCH.
- ⑪ 8" FLANGE COUPLING ADAPTER.
- ⑫ 8" CHECK VALVE
- ⑬ 8" FULL PORTED PLUG VALVE
- ⑭ SUBMERSIBLE SUMP PUMP IN PIT
- ⑮ CONCRETE PIPE SUPPORTS WITH 1/8" BUNA-N LINING
- ⑯ WATER STOP
- ⑰ HEAVY DUTY, DOUBLE DOOR ACCESS COVER 48" X 72" ACTUAL OPENING, SUITABLE FOR H-20 LOADING, WITH ALUMINUM GRATE SAFETY HATCH.
- ⑱ PRESSURE GAUGE WITH SHUTOFF VALVE AND DIAPHRAGM SEAL. ELEVATION AS DIRECTED BY DISTRICT. TYPICAL OF EACH DISCHARGE LINE, 2 TOTAL. PROVIDE 90° ELL TO READ GAUGES EASILY.
- ⑲ UPPER GUIDE BAR BRACKET
- ⑳ VENT
- ㉑ GROUT CIRCLE
- ㉒ 8" DIP DRAIN BACK TO STATION
- ㉓ 5' X 7' REINFORCED CONCRETE VALVE VAULT (4,000 PSI)
- ㉔ FORCE MAIN WALL PENETRATION DETAIL
- ㉕ 8" 45° DIP BEND
- ㉖ 8" x 8" x 8" DIP WYE
- ㉗ 12" HDPE FORCE MAIN
- ㉘ NEW HOSE BIB WITH BACKFLOW PREVENTER.
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- ⓪ NEW HOSE BIB WITH BACKFLOW PREVENTER

FILENAME: C-13 - C-16 Sand Hill PS - B-01-17 09:38am Patrick | XREFS | X-WESD-TBULK | <<-

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DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

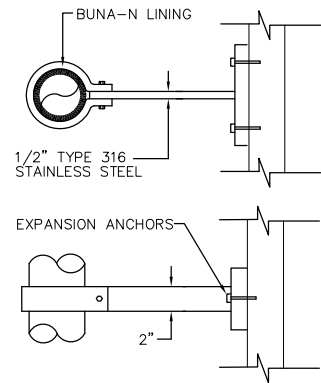
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APPROVED:	RMC ENGR	C



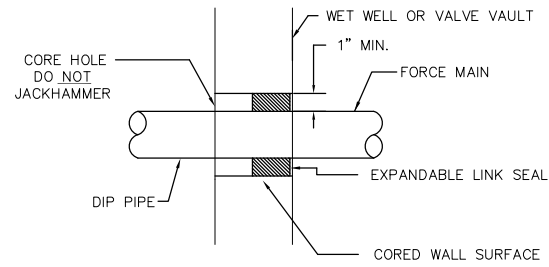
SHARON HEIGHTS RECYCLED WATER PROJECT

INFLUENT PUMP STATION SECTIONS

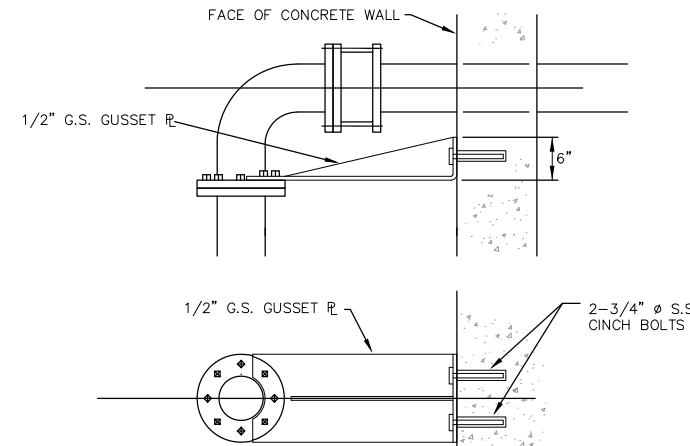
DWG NO	C-15
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017



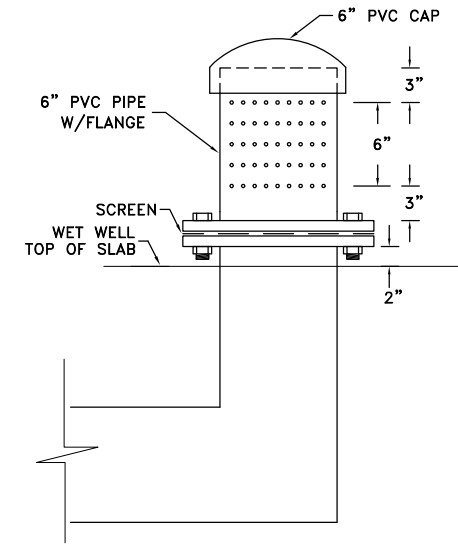
PIPE SUPPORT (TYP.)
NOT TO SCALE



FORCEMAIN WALL PENETRATION DETAIL (TYP.)
NOT TO SCALE



PIPE THRUST BRACE
NOT TO SCALE



VENT DETAIL
NOT TO SCALE

FILENAME: C-13 - C-16 Sand Hill PS - 8-01-17 09:38am Patrick | XREFS | X-WESD-IBLK | <<--

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CONSTRUCTION**

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REV	DATE	BY	APVD	DESCRIPTION
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▲				
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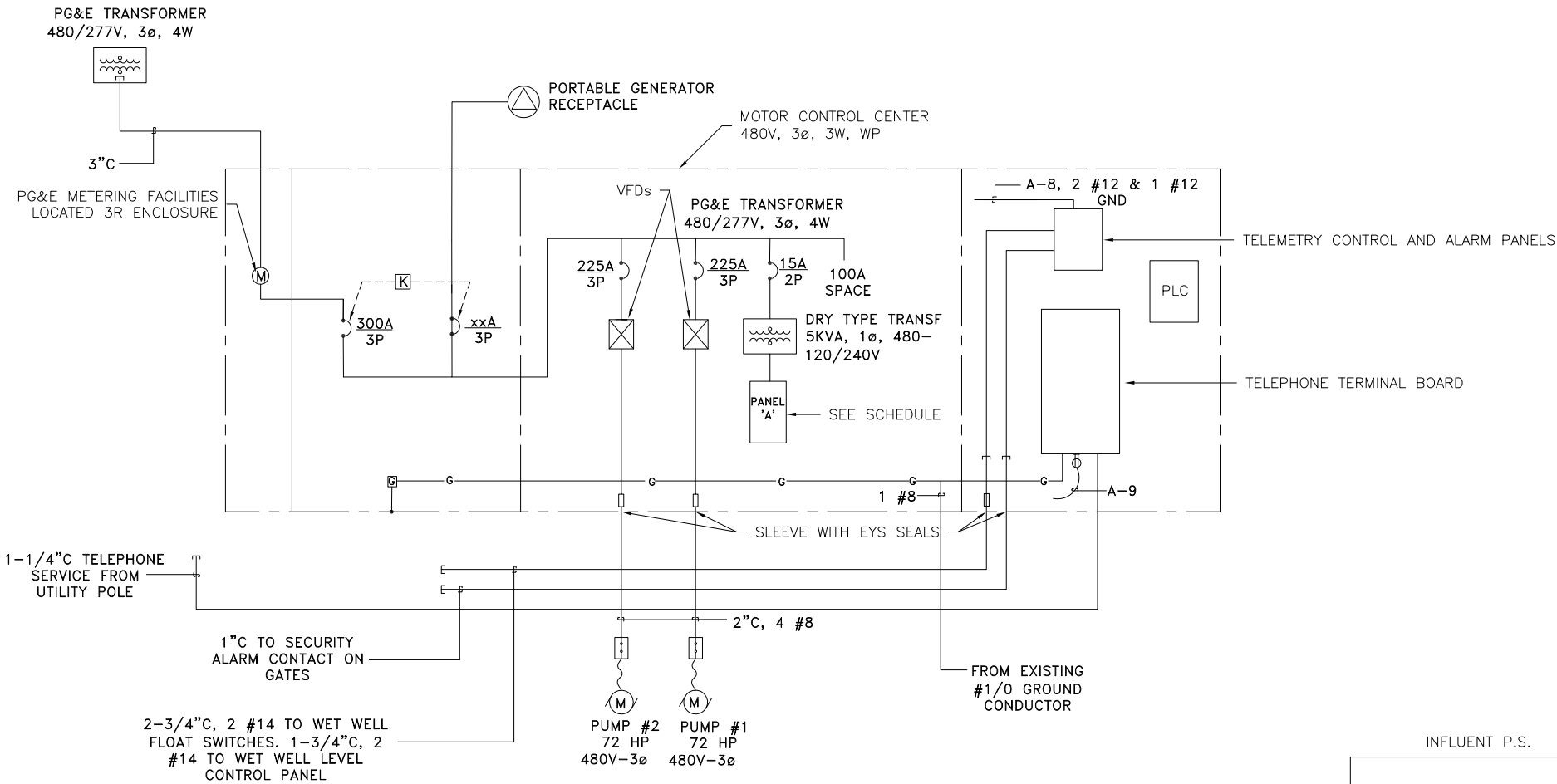
DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C



SHARON HEIGHTS RECYCLED WATER PROJECT
INFLUENT PUMP STATION DETAILS

DWG NO	C-16
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017



① SINGLELINE DIAGRAM
SCALE: N.A.

PANEL SCHEDULE: A 120/240 VOLTS, 1 PHASE, 3 WIRE KAIC RATING:

MAIN BREAKER REQ'D: 30A MAIN LUGS ONLY: BUS RATING: 100 AMPS PANEL TYPE: BOLT-ON LOCATION: MCC

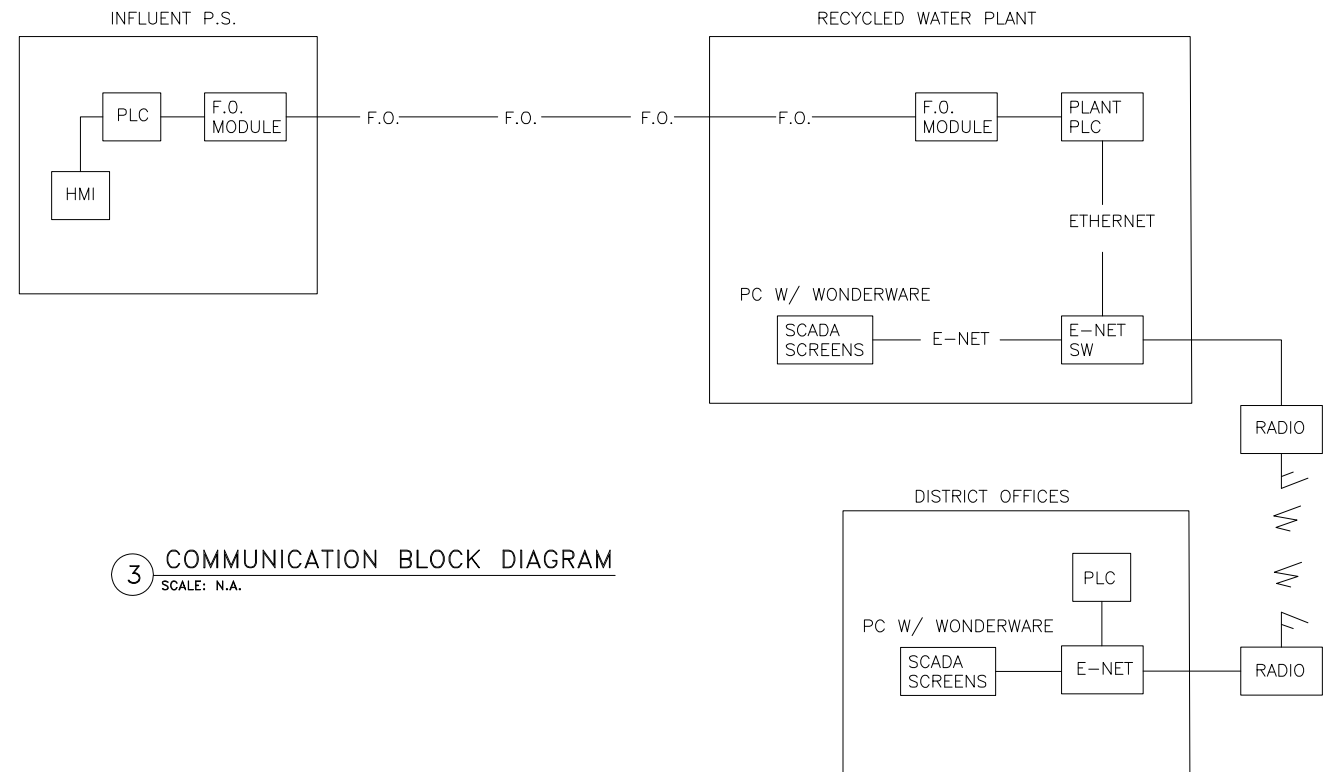
DESCRIPTION	PHASE A	PHASE B	AMPS	POLE	CKT	X	CKT	POLE	AMPS	PHASE A	PHASE B	DESCRIPTION
SPARE						X	2	1	20	600		AREA LIGHTING
SPARE						X	4	1	20		400	AREA RECEPTACLES
PANEL RECEPTACLE	200		20	1	5	X	6	1	20	300		ENCL FAN AND LIGHT
PANEL SPACE HEATER		400	20	1	7	X	8	1	20		100	TELEMETRY&ULTRASONIC PNL
FUEL TANK ALARM		100	20	1	9	X	10	1	20	100		ALARM PANEL
SPARE			20	1	11	X	12	1	20			SPARE
SPARE			20	1	13	X	14	1	20			SPARE
SPARE			20	1	15	X	16	1	20			SPARE
SPARE			20	1	17	X	18	1				SPARE
SPARE			20	1	19	X	20	1				SPARE
SPARE			20	1	21	X	22	1				SPARE
SPARE			20	1	23	X	24	1				SPARE
TOTALS												TOTALS

TOTAL CONNECTED LOAD: _____ VA

LONG TIME CONTINUOUS LOAD: X 0.25 = _____ VA

CALCULATED FEEDER LOAD: _____ VA (ON HEAVIEST LEG)

② PANEL SCHEDULE 'A'
SCALE: N.A.



③ COMMUNICATION BLOCK DIAGRAM
SCALE: N.A.

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REV	DATE	BY	APVD	DESCRIPTION

DESIGNED	RJL
DRAWN	SCC
CHECKED	RJL

SUBMITTED:	RMC PROJ ENGR	C
APPROVED:	RMC ENGR	C

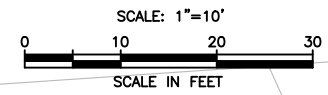


SHARON HEIGHTS RECYCLED WATER PROJECT

INFLUENT PS SINGLE LINE DIAGRAM AND COMMUNICATION BLOCK DIAGRAM

DWG NO	C-17
SHEET NO	
PROJ NO	0606-007
DATE	AUGUST 2017

FILENAME: C-17 ELEC DETAIL 8-01-17 09:39am Patrick XREFS: X-WBSD-TBLK YC--



NEW GRAVITY SEWER TIE-IN PIPELINE, SEE DRAWING G-3

PROTECT TREE IN PLACE

ACCESS THROUGH SHGCC FROM SAND HILL ROAD

APPROX EXTENT OF POND. SEE NOTE 2

EXISTING STRUCTURE. PROTECT IN PLACE

TO STORAGE PONDS AND TRUCK FILL STATION

NEW RETAINING WALL

STORAGE CONTAINERS TO BE REMOVED BY SHGCC

INFLUENT PIPELINE

GRAVITY SEWER

FOUL AIR

MH NO. 2

MH NO. 1

ODOR CONTROL DRAINAGE

PLANT DRAIN

WAS AND SCUM

HEADWORKS

EXISTING RETAINING WALL. PROTECT IN PLACE

RESERVE FOR FUTURE RW DISTRIBUTION PUMP STATION.

RESERVE FOR FUTURE RO FACILITY.

CHEMICAL DISTRIBUTION AND STORAGE

SAMPLE PREP/OFFICE

AERATION BLOWERS FOR MBR AND BIOLOGICAL

ELECTRICAL

EQUALIZATION

PLANT DRAIN

FUTURE RW PIPE TO DISTRIBUTION PUMP STATION.

SCREENED WASTEWATER

UV/ PERMEATE PUMPS

MBR AREA (INCLUDING MEMBRANE EQUIPMENT LAYOUT)

BIOLOGICAL REACTORS

ODOR CONTROL

287.0

287.0

PLANT DRAIN PUMP STATION

REMOVABLE BOLLARD (TYP)

STAIRWAY (TYP)

AC PAVEMENT

PARKING

PARKING

EXTENT OF EXISTING SOIL PILES. EXACT VOLUME OF SOIL UNKNOWN. DB TEAM SHALL DISPOSE OF OR USE AS REQUIRED

NEW RETAINING WALL

- NOTES:**
1. THE TREATMENT FACILITY LAYOUT IS CONCEPTUAL AND WAS DEVELOPED TO EVALUATE THE SPACE REQUIREMENTS FOR THE ENVISIONED FACILITY ELEMENTS. THE DB TEAMS MAY ADJUST THE SITE LAYOUT AND FACILITY ARRANGEMENT FOR FACILITY CONSTRUCTABILITY, CONSTRUCTION COST EFFICIENCY, AND OPERATIONAL EFFICIENCY.
 2. THE DB TEAMS SHALL PROVIDE PAVED VEHICLE INGRESS AND EGRESS AND PAVED ACCESS AROUND THE TREATMENT FACILITIES THAT SUPPORTS TREATMENT PLANT OPERATIONS AND MAINTENANCE INCLUDING DELIVERY OF CHEMICALS, WASTE DISPOSAL PICKUP, AND FUTURE DELIVERY OF REPLACEMENT EQUIPMENT OF EQUAL SIZE TO THE LARGEST EQUIPMENT INSTALLED ON-SITE. TYPICAL VEHICLES THAT WILL NAVIGATE THE SITE AT LEAST 8 TIMES PER YEAR SHALL BE CAPABLE OF DRIVING AROUND THE SITE WITHOUT REVERSING.
 3. THIS CONCEPTUAL LAYOUT SHOWS SOME YARD PIPING BUT IS NOT INCLUSIVE OF ALL THE PIPING, CONDUIT, AND OTHER UTILITIES NECESSARY TO SUPPORT THE TREATMENT PLANT PERFORMANCE. THE DB TEAM SHALL BE RESPONSIBLE FOR DELIVERING THE NECESSARY UTILITIES, PIPING, ETC. TO MEET THE PERFORMANCE REQUIREMENTS OF THE FACILITY.
 4. THE SITE PLAN DOES NOT SHOW DETAILS ON THE LANDSCAPING AREA NECESSARY TO SCREEN THE SITE FROM VIEW OR TO MEET THE LANDSCAPE REQUIREMENTS FOR THE PROJECT. THE DB TEAM SHALL REVISE THE SITE PLAN ACCORDINGLY. FOLLOWING COMPLETION OF CONSTRUCTION ACTIVITIES, ALL DISTURBED AREAS SHALL BE STABILIZED TO PREVENT EROSION BY STORM WATER RUNOFF.
 5. SITE GRADING AND RETAINING WALLS ARE CONCEPTUAL AND THE DB TEAM MAY MODIFY THE GRADING AND RETAINING WALLS. THE SITE PLAN DOES SHOW PAVED AREA BEYOND THE MINIMUM REQUIRED AND THIS AREA WOULD SUPPORT OPERATIONS AND IS PERCEIVED AS BENEFICIAL FOR THE SITE.

PRELIMINARY

PLAN
1"=10'

PRELIMINARY NOT FOR CONSTRUCTION

0" = 1" VERIFY SCALES BAR IS ONE INCH LONG ON FULL SIZE DRAWING. IF NOT ONE INCH LONG ON THIS DRAWING, ADJUST SCALES ACCORDINGLY



REV	DATE	BY	APVD	DESCRIPTION

DESIGNED K. KUANG
DRAWN J. MAY
CHECKED T. VALDIVIA

SUBMITTED: RMC PROJ ENGR C
APPROVED: RMC ENGR C



SHARON HEIGHTS RECYCLED WATER PROJECT

RWTP SITE PLAN

DWG NO C-100
SHEET NO OF
PROJ NO 0606-007
DATE AUGUST 2017

FILENAME: 0606-007-C-100_7-31-17_10:34am \$print \$XREFS\$ X-WBSD-TBLK X-TOPO X-ALIGNMENT Kc