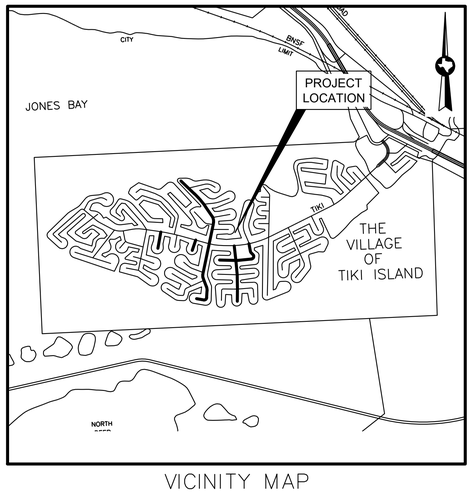
TIKI ISLAND VARIOUS STREET IMPROVEMENTS

GALVESTON COUNTY, TX

REPLACEMENT OF ASPHALT STREET WITH CONCRETE PAVEMENT
PARADISE DR. FROM TIKI DR. TO END (BASE BID)
HAWAII DR FROM TIKI DR TO CUL-DE-SAC (BASE BID)
TAMANA DR FROM TIKI DR TO CUL-DE-SAC (BASE BID)
LANAI DR FROM HAWAII DR TO CUL-DE-SAC (ALTERNATE 1 BID)
SAMPAN DR FROM TIKI DR TO CUL-DE-SAC (ALTERNATE 2 BID)
KAH ME HA DR FROM TIKI DR TO CUL-DE-SAC (ALTERNATE 3 BID)

STATE OF TEXAS
JOHN J. IVERY, JR
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020



VICINITY MAP

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THE STATE OF TEXAS
COUNTY OF GALVESTON

OFFICIALS

MARK HENRY ..... COUNTY JUDGE
DARRELL APFFEL ..... COMMISSIONER PRECINCT NO.1
JOE GIUSTI ..... COMMISSIONER PRECINCT NO.2
STEPHEN HOLMES ..... COMMISSIONER PRECINCT NO.3
KENNETH CLARK ..... COMMISSIONER PRECINCT NO.4
MICHAEL SHANNON, PE ..... COUNTY ENGINEER

SEPTEMBER 2020

CALL BEFORE YOU DIG!
TEXAS ONE CALL PARTICIPANTS REQUEST 48 HOURS NOTICE BEFORE YOU DIG, DRILL, OR BLAST - STOP CALL
Texas One Call System
1-800-245-4545

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ENGINEERING THE FUTURE SINCE 1936
10011 Meadowglen Lane
Houston, Texas 77042
EHRAinc.com | 713.784.4500
TBPE No F-726 | TBPLS No 10092300

P-3997

JOB NO. 181-062-00

48 HOURS NOTICE: CONTRACTORS SHALL NOTIFY GALVESTON COUNTY PRIOR TO COMMENCING CONSTRUCTION AND/ OR BACKFILLING ANY UTILITIES. CONTRACTORS TO CONTACT ENGINEERING & RIGHT OF WAY AT (409) 770-5552

APPROVED BY

MICHAEL SHANNON, P.E. DATE
COUNTY ENGINEER

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR SHALL COORDINATE HIS CONSTRUCTION SCHEDULE WITH THE ENGINEER PRIOR TO COMMENCING WORK.
2. CONTRACTOR SHALL CONTACT ALL GOVERNING AGENCIES A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION AND COORDINATE ALL WORK WITH THE SAME.
3. VERIFY ALL DIMENSIONS AND CONDITIONS IN THE FIELD BEFORE COMMENCING ANY WORK. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO REPORT ANY DISCREPANCIES TO THE ENGINEER PRIOR TO STARTING WORK.
4. ALL DIMENSIONS SHOWN ARE APPROXIMATE AND ARE TO BE VERIFIED BY THE CONTRACTOR. CHANGES IN HORIZONTAL OR VERTICAL ALIGNMENT ARE TO BE APPROVED BY THE ENGINEER.
5. THE DRAWINGS SHOW AS MUCH INFORMATION AS CAN BE REASONABLY OBTAINED FROM AN ON THE GROUND OBSERVATION, SURVEY AND EXISTING CONSTRUCTION DRAWINGS REGARDING THE TOPOGRAPHIC FEATURES, ELEVATIONS AS WELL AS THE LOCATION AND NATURE OF PIPELINES, NATURAL GAS LINES, UNDERGROUND CABLES, UTILITIES, ETC. HOWEVER, THE ACCURACY OF OR COMPLETENESS OF SUCH INFORMATION IS NOT GUARANTEED. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL UNDERGROUND UTILITIES SUFFICIENTLY IN ADVANCE OF CONSTRUCTION TO PRECLUDE DAMAGE TO EXISTING UTILITIES. IN THE EVENT THAT UNDERGROUND UTILITIES NOT SHOWN ON THE DRAWINGS ARE ENCOUNTERED DURING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
6. SOME OF THE EXISTING UNDERGROUND UTILITIES SHOWN HEREON HAVE NOT BEEN FIELD VERIFIED.
7. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXCESS MATERIAL WHETHER OR NOT SHOWN ON PLANS AT NO ADDITIONAL COST TO OWNER.
8. ALL EXISTING POWER POLES, LIGHT STANDARDS, SIGNS, ETC. WHICH AFFECT THE PROPOSED CONSTRUCTION, SHALL BE REMOVED AND/OR RELOCATED AS REQUIRED WHETHER SHOWN ON DRAWINGS OR NOT AT NO ADDITIONAL COST TO THE OWNER.
9. ALL WORK WITHIN THE PUBLIC RIGHT-OF-WAY SHALL ADHERE TO THE STANDARDS OF THE GOVERNING AUTHORITY.
10. INGRESS AND EGRESS SHALL BE PROVIDED AT ALL TIMES FOR THE PROPERTY OWNERS AND BUSINESSES OF THE ABUTTING PROPERTY AND THE CROSS STREETS WHICH ARE AFFECTED BY THE CONSTRUCTION OF THIS PROJECT.
11. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR MAINTAINING A SAFE PROJECT SITE 24 HOURS A DAY.
12. DURING THE ENTIRE CONSTRUCTION PERIOD, THE CONTRACTOR SHALL MAINTAIN CONSTRUCTION WARNING SIGNS AT EACH END OF THE PROJECT TO WARN MOTORING AND PEDESTRIAN TRAFFIC THAT CONSTRUCTION IS IN PROGRESS AND OF POSSIBLE HAZARDOUS CONDITIONS GENERATED BY THE CONSTRUCTION.
13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DELINEATING THE PERIMETER OF CONSTRUCTION AREA WITH SAFETY "SNOW" FENCING AT NO ADDITIONAL COST. SAFETY FENCING SHALL BE ERECTED PRIOR TO CONSTRUCTION AND REMOVED UPON COMPLETION.
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTROLLING TRAFFIC IN THE IMMEDIATE VICINITY OF CONSTRUCTION. ALL WORK SHALL BE IN SUCH A MANNER AND SEQUENCE AS TO PROVIDE MAXIMUM PROTECTION TO TRAFFIC AND PEDESTRIANS. CONTROLS SHALL BE CONSISTENT WITH THE TYPE OF WORK BEING PERFORMED.
15. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (TEXAS M.U.T.C.D. MOST RECENT EDITION WITH REVISIONS) DURING CONSTRUCTION.
16. DELINEATORS SHALL BE INSTALLED ALONG THE PAVEMENT EDGE TO WARN TRAFFIC OF ANY ROADSIDE OBJECTS OR HAZARDS AND TO DELINEATE THE ROADWAY EDGE DURING HOURS OF DARKNESS.
17. THE WORK AREA SHALL BE BARRICADED AND ILLUMINATED DURING DARKNESS AND PERIODS OF INACTIVITY, WHEN IN AN AREA OF DIRECT PUBLIC ACCESS.
18. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING REQUIRED SECURITY TO PROTECT HIS OWN PROPERTY, EQUIPMENT, AND WORK IN PROGRESS.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ADEQUATE DRAINAGE BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO THE SATISFACTION OF THE GOVERNING AUTHORITY.
20. CONTRACTOR IS RESPONSIBLE FOR THE CONSTRUCTION OF ANY TEMPORARY DITCH OR DRAINAGE FACILITIES REQUIRED TO MAINTAIN ADEQUATE SITE DRAINAGE DURING CONSTRUCTION AT NO ADDITIONAL COST TO OWNER
21. THE CONTRACTOR IS TO INSTALL GROUND WATER CONTROL FACILITIES IF NEEDED, AT NO ADDITIONAL COST TO OWNER.
22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL APPLICABLE PERMITS REQUIRED BY ALL GOVERNING AGENCIES.
23. THE CONTRACTOR IS RESPONSIBLE FOR THE COMPLETION AND SUBMISSION OF ALL APPLICABLE STATE AND FEDERAL FORMS REQUIRED FOR STORM WATER POLLUTION PREVENTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONSTRUCTION, IMPLEMENTATION, MAINTENANCE, AND INSPECTION OF STORM WATER POLLUTION PREVENTION CONTROL MEASURES INCLUDING, BUT NOT LIMITED TO, EROSION AND SEDIMENT CONTROLS, STORM WATER MANAGEMENT PLANS, WASTE COLLECTION AND DISPOSAL, OFF-SITE VEHICLE TRACKING, AND OTHER PRACTICES.
24. THE CONTRACTOR MUST CLEAN MUD, DIRT OR DEBRIS TRACKED ONTO EXISTING STREETS BY HIMSELF OR SUBCONTRACTOR'S VEHICLES AND EQUIPMENT IN A TIMELY MANNER.
25. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY, UPON COMPLETION OF JOB SHALL BE AS GOOD OR BETTER THAN PRIOR TO STARTING WORK.
26. ALL AREAS DISTURBED BY CONSTRUCTION WHICH ARE NOT TO BE REPAVED OR OTHERWISE COVERED SHALL BE SOLID SODDED WITH ST. AUGUSTINE GRASS.
27. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL AND DISPOSAL OF ALL WASTE MATERIAL GENERATED DURING CONSTRUCTION. WASTE MATERIAL MUST BE REMOVED FROM THE WORK SITE AND DISPOSED OF IN SUCH A MANNER AS TO NOT DAMAGE THE OWNER OR OTHER PERSONS AT NO ADDITIONAL COST.

UTILITY CONSTRUCTION NOTES

1. WHETHER SHOWN ON DRAWINGS OR NOT THE CONTRACTOR SHALL PROVIDE ALL PIPING, APPURTENANCES, AND MISCELLANEOUS FITTINGS REQUIRED TO ACCOMPLISH THE DESIGN AS DRAWN AT NO ADDITIONAL COST TO THE OWNER. CONTRACTOR SHALL CONTACT ENGINEER IF UNSURE OF PIPING LAYOUT, SIZES OR LENGTHS.
2. CONTRACTOR SHALL UNCOVER EXISTING UTILITIES AT ALL "POINTS OF CROSSING" TO DETERMINE IF CONFLICT EXISTS BEFORE COMMENCING ANY CONSTRUCTION. NOTIFY THE ENGINEER AT ONCE OF ANY CONFLICT.
3. IN THE EVENT OF DAMAGE TO UNDERGROUND UTILITIES OR FACILITIES, WHETHER SHOWN OR NOT ON THE DRAWINGS, THE CONTRACTOR SHALL MAKE THE NECESSARY REPAIRS TO REPLACE THE UTILITY OR FACILITY BACK IN SERVICE AT NO INCREASE IN THE CONTRACT PRICE. ALL SUCH REPAIRS SHALL CONFORM TO THE REQUIREMENTS OF THE COMPANY OR AGENCY SERVICING THE FACILITY.
4. UNOCCUPIED TRENCHES SHALL BE SECURED WITH SAFETY FENCING OR OTHER APPROPRIATE MEANS AT ALL TIMES. TRENCHES WHICH ARE NOT IMMEDIATELY BACKFILLED SHALL BE SECURELY COVERED OVERNIGHT AND BE SURROUNDED BY SAFETY FENCING.
5. THE CONTRACTOR SHALL COMPLY WITH OSHA REGULATIONS AND STATE OF TEXAS LAW CONCERNING EXCAVATION, TRENCHING AND SHORING. THE CONTRACTOR SHALL DESIGN AND HAVE AVAILABLE A TRENCH SAFETY PLAN FOLLOWING OSHA, STATE AND LOCAL REQUIREMENTS.
6. CONTRACTOR SHALL PROVIDE SHEETING, SHORING AND BRACING AS NECESSARY TO PROTECT WORKMEN AND EXISTING UTILITIES DURING ALL PHASES OF CONSTRUCTION.
7. CEMENT-SAND BACKFILL SHALL CONSIST OF NOT LESS THAN 1-1/2 SACKS OF CEMENT PER TON WITH SUFFICIENT WATER TO HYDRATE THE CEMENT. THE MATERIAL SHALL BE PLACED IN LAYERS EIGHT (8) INCHES THICK MAXIMUM AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.
8. THE CONTRACTOR SHALL VERIFY LOCATION AND ELEVATION OF ALL PROPOSED UTILITIES EXITING BUILDING PRIOR TO COMMENCING WORK ON SITE UTILITIES. UPON ANY DISCREPANCIES, ENGINEER IS TO BE NOTIFIED.
9. ALL STRUCTURES AND SEWER PIPE UNDER OR WITHIN TWO (2) FEET OF PROPOSED OR FUTURE PAVEMENT SHALL BE BEDDED AND BACKFILLED WITH CEMENT STABILIZED SAND UP TO THE BOTTOM OF THE PAVEMENT SUBGRADE.

PAVING CONSTRUCTION NOTES

1. IN ORDER TO COMPLY WITH HANDICAP REGULATIONS, THE CONTRACTOR SHALL ENSURE THAT THE SLOPE OF THE SIDEWALK AND / OR PAVING IN THE FIRST FIVE FEET OUTSIDE ANY DOOR DOES NOT EXCEED 2% IN ANY DIRECTION.
2. WHERE PAVEMENT OR CURB IS BEING REMOVED AND REPLACED FULL DEPTH SAW CUT SHALL BE PERFORMED AT STREET CONNECTION.
3. CONCRETE PAVEMENT SHALL HAVE MINIMUM OF FIVE AND ONE-HALF SACKS OF CEMENT PER CUBIC YARD AND SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS, UNLESS OTHERWISE NOTED ON PAVING LAYOUT OR DETAIL SHEETS.
4. ALL STEEL REINFORCEMENT SHALL CONFORM TO ASTM A615 GRADE 60.
5. DETAILING AND FABRICATION OF CONCRETE REINFORCEMENT AND ACCESSORIES SHALL BE IN ACCORDANCE WITH ACI-318 LATEST EDITION.
6. LAP ALL CONTINUOUS REINFORCING STEEL 36 DIAMETERS AT SPLICES, TEES, AND CORNERS UNLESS NOTED OTHERWISE ON PLANS.
7. WHERE CONCRETE CURB OR SIDEWALK IS INDICATED, ELEVATION SHALL BE 6 INCHES ABOVE TOP OF PAVEMENT ELEVATION SHOWN, UNLESS OTHERWISE SHOWN ON DRAWINGS.
8. A FIBERBOARD EXPANSION JOINT SHALL BE PLACED BETWEEN THE BUILDING FOUNDATION AND THE CONCRETE PAVEMENT.

SITE GRADING CONSTRUCTION NOTES

1. FINISH GRADE ELEVATIONS INDICATE FINAL GRADE OF PROPOSED MATERIAL (I.E. SOD, DIRT, MULCH, ETC.) LANDSCAPED AREAS ADJACENT TO BUILDING, INCLUDING, DIRT, MULCH, AND/OR BEDDING MATERIALS SHALL NOT COVER WEEPHOLES. AREAS ADJACENT TO BUILDING, LANDSCAPED, OR OTHERWISE SHALL SHEET FLOW AWAY FROM BUILDING WITH NO AREAS OF STANDING WATER ADJACENT TO BUILDING.
2. GRADING AROUND BUILDINGS INCLUDING WALKWAYS SHALL BE COORDINATED WITH ENGINEER AND FINAL APPROVAL OF GRADES IN GRASS AREAS AND SWALES SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF LANDSCAPING MATERIALS.
3. AFTER INSTALLATION OF DRAINAGE SYSTEM, CONTRACTOR SHALL PERFORM FINAL GRADING AS SHOWN ON THE PLANS AND/OR AS DIRECTED BY ENGINEER OR OWNER TO INSURE POSITIVE DRAINAGE OF ENTIRE SITE. FINAL GRADING SHALL BE APPROVED BY ENGINEER PRIOR TO INSTALLATION OF GRASS.
4. PLACE BACKFILL AS PROMPTLY AND AS PRACTICABLE AFTER COMPLETION OF EACH STRUCTURE OR PORTION OF A STRUCTURE. DO NOT PLACE BACKFILL AGAINST CONCRETE WALLS OR SIMILAR STRUCTURES UNTIL CONCRETE HAS CURED AT LEAST SEVEN (7) DAYS.
5. CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EXCESS MATERIAL WHETHER OR NOT SHOWN ON PLANS AT NO ADDITIONAL COST TO OWNER.

PRIVATE UTILITY NOTES

1. ELECTRIC METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH ELECTRICAL PROVIDER BY THE CONTRACTOR.
2. GAS METER AND SERVICE LINE INSTALLATION TO BE COORDINATED WITH GAS COMPANY BY THE CONTRACTOR.

CENTERPOINT ENERGY NOTES

CAUTION: UNDERGROUND GAS FACILITIES
LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY GAS PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 945-8036 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY GAS FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL FACILITIES
OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE or EASEMENT PROPERTY
NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

AT&T TEXAS/SWBT FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
2. THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713)567-4552 OR E-MAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUR AT&T TEXAS/SWBT FACILITIES.

THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA A MINIMUM OF 48 HOURS PRIOR TO COMMENCING WORK IN ANY RIGHT-OF- WAY OR EXISTING EASEMENT. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567, 1-800-245-4545 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
ENGINEERING THE FUTURE SINCE 1936
10011 Meadowglen Lane
Houston, Texas 77042
EHRAinc.com | 713.784.4500
TBPE No F-726 | TBPLS No 10092300

STATE OF TEXAS
JOHN J. IVERY, JR
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

GENERAL NOTES

SHEET 02 OF 55

P-3997

P:\181-062-00\Drawings_TIKI ISLAND\02 GENERAL NOTES.dwg Sep 18, 2020-8:27am Edited by: cmuellner

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
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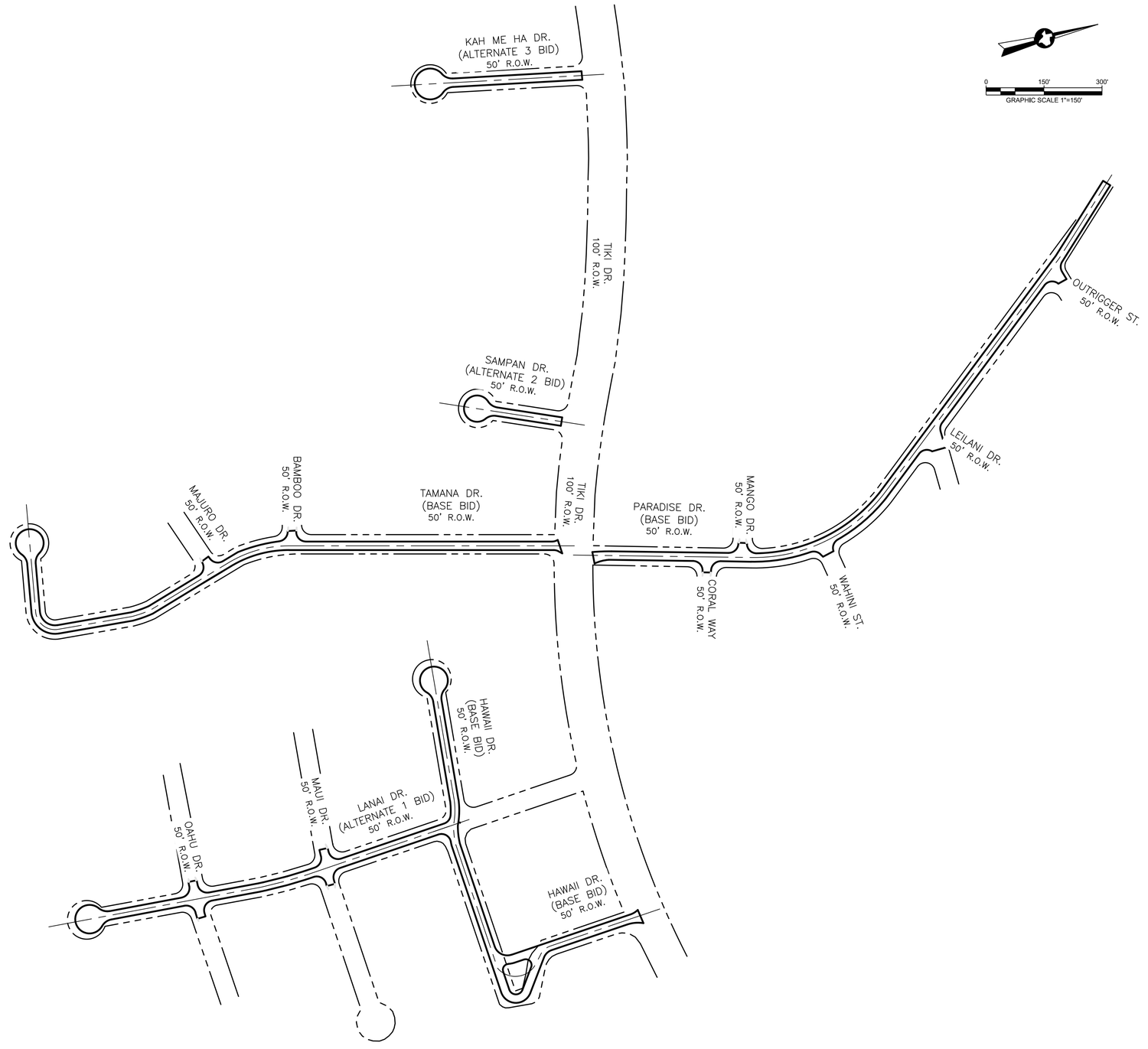

P-3997

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GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
ENGINEERING THE FUTURE SINCE 1836
10011 Meadowglen Lane
Houston, Texas 77042
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STATE OF TEXAS
JOHN J. IVERY, JR
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

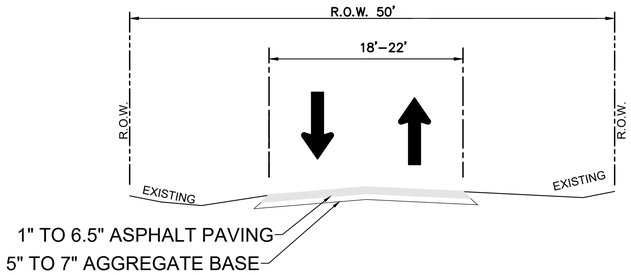
TIKI ISLAND

OVERALL LAYOUT

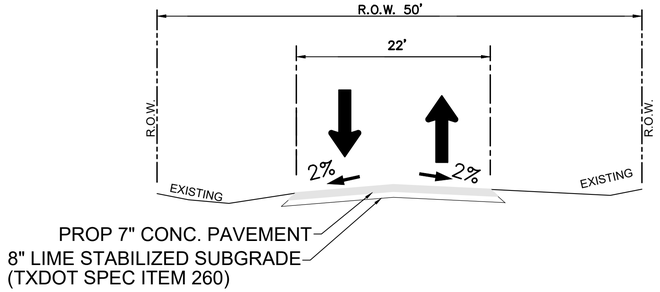
SHEET 03 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\03 OVERALL LAYOUT.dwg Sep 18, 2020-8:27am Edited by: cmuellner

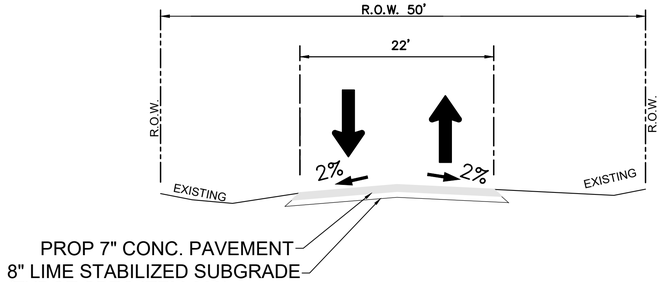
NOTE:
1. FOR PAVEMENT AND SUBGRADE STRUCTURE INFORMATION PLEASE REFER TO GEOTECH REPORT PREPARED BY PARADIGM PROJECT NO. 19-1089, DATED MARCH 2, 2020.



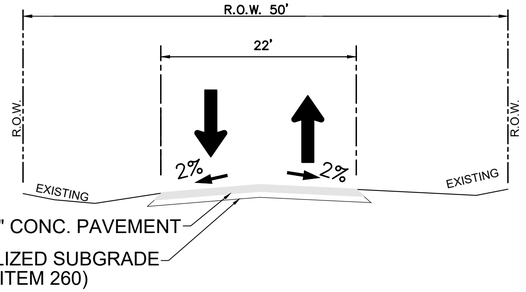
EXISTING TYPICAL SECTION VARIOUS STREETS



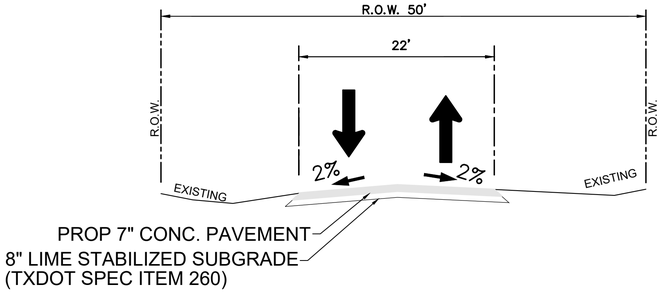
TAMANA DR TYPICAL SECTION @ 9+50



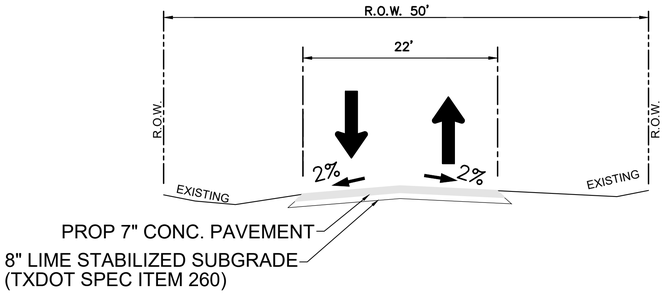
HAWAII DR TYPICAL SECTION @ 7+00



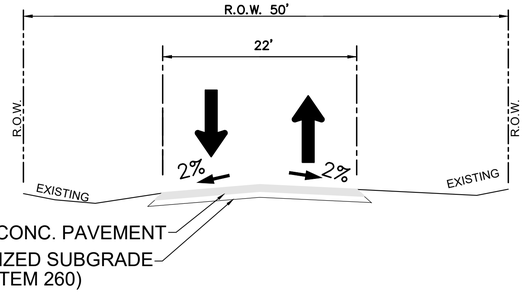
KAH ME HA DR TYPICAL SECTION @ 3+50



LANAI DR TYPICAL SECTION @ 6+00



PARADISE DR TYPICAL SECTION @ 11+00



SAMPAN DR TYPICAL SECTION @ 3+50

P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
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LICENSED PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

PROPOSED & EXISTING
TYPICAL SECTIONS

SHEET 04
OF 55

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Tiki Island - Traffic Control Narrative

Typical Traffic Control Plan Narrative

GENERAL STATEMENT - FOR ALL STREETS

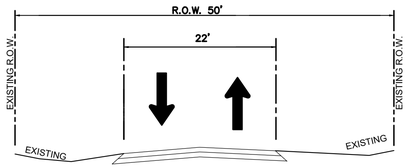
COMPLETE PHASE I AND PHASE II OF ONE STREET BEFORE MOVING ON THE NEXT STREET.
COMPLETE PROJECT IN CHRONOLOGICAL ORDER ACCORDING TO THE SEGMENT NUMBERS.

PHASE I - FOR ALL STREETS

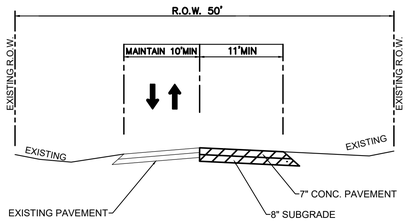
- CONTRACTOR TO INSTALL ADVANCED WARNING SIGNS AND INSTALL ALL TRAFFIC CONTROL DEVICES AS PER THE LATEST REVISION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
- CONTRACTOR SHALL MAINTAIN ACCESS TO RESIDENTIAL AND COMMERCIAL PROPERTIES ADJACENT TO AND IN THE WORK AREAS AT ALL TIMES. CONTRACTOR SHALL MAINTAIN VEHICULAR ACCESS TO ALL DRIVEWAYS AT ALL TIMES. CONTRACTOR SHALL CONSTRUCT TEMPORARY DRIVEWAYS FOR ACCESS AS NECESSARY AT NO COST TO THE PROJECT.
- CONTRACTOR TO CONSTRUCT BOTH PHASES OF EACH SEGMENT BEFORE MOVING TO THE NEXT SEGMENT.
- CONTRACTOR SHALL USE STREET LIGHT TCP DETAIL SHEET 10 TO HALF OF THE PROPOSED PAVEMENT IN 1,000 LF SEGMENTS.
- CONTRACTOR WILL CONDUCT CONSTRUCTION AS A MOBILE OPERATION IN 1000 LF SEGMENTS
- CONTRACTOR SHALL USE HIGH EARLY STRENGTH CONCRETE FOR ALL INTERSECTIONS. SEE THE CITY OF HOUSTON DETAIL “TCP TYPICAL 3-WAY INTERSECTION PHASE 1-3” DRAWINGS 01512-06 TO 01512-08.
- CONTRACTOR SHALL OPEN ALL CLOSED ROADS DURING NON-WORKING HOURS. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC SAFETY AND SHALL ADEQUATELY AND SAFELY COVER AND/OR BACKFILL TRENCH OR OTHER EXCAVATIONS, IF ANY, PRIOR TO OPENING ROADS TO TRAFFIC.

PHASE II - FOR ALL STREETS

- CONTRACTOR SHALL MAINTAIN ALL ADVANCE WARNING SIGNS AND TRAFFIC CONTROL DEVICES.
- CONTRACTOR TO CONSTRUCT BOTH PHASES OF EACH SEGMENT BEFORE MOVING TO THE NEXT SEGMENT.
- CONTRACTOR SHALL USE STREET LIGHT TCP DETAIL SHEET 10 TO HALF OF THE PROPOSED PAVEMENT IN 1,000 LF SEGMENTS.
- CONTRACTOR SHOULD COMPLETE CONSTRUCTION OF ONE STREET COMPLETELY BEFORE MOVING ON TO ANOTHER STREET.
- CONTRACTOR WILL CONDUCT CONSTRUCTION AS A MOBILE OPERATION IN 1000 LF SEGMENTS.
- CONTRACTOR SHALL USE HIGH EARLY STRENGTH CONCRETE FOR ALL INTERSECTIONS. SEE THE CITY OF HOUSTON DETAIL “TCP TYPICAL 3-WAY INTERSECTION PHASE 1-3” DRAWINGS 01512-06 TO 01512-08.
- CONTRACTOR SHALL OPEN ALL CLOSED ROADS DURING NON-WORKING HOURS. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC SAFETY AND SHALL ADEQUATELY AND SAFELY COVER AND/OR BACKFILL TRENCH OR OTHER EXCAVATIONS, IF ANY, PRIOR TO OPENING ROADS TO TRAFFIC.
- CONTRACTOR CAN ONLY WORK ON ONE STREET AT A TIME AT ALL TIMES.

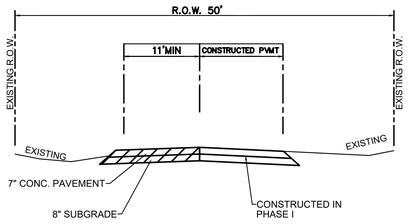


EXISTING CONDITIONS



*FLAGGER OPERATION

PHASE I



*FLAGGER OPERATION

PHASE II

P-3997

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DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

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STATE OF TEXAS
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LICENSED PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

TRAFFIC CONTROL PLAN 1 OF 2

SHEET 05 OF 55

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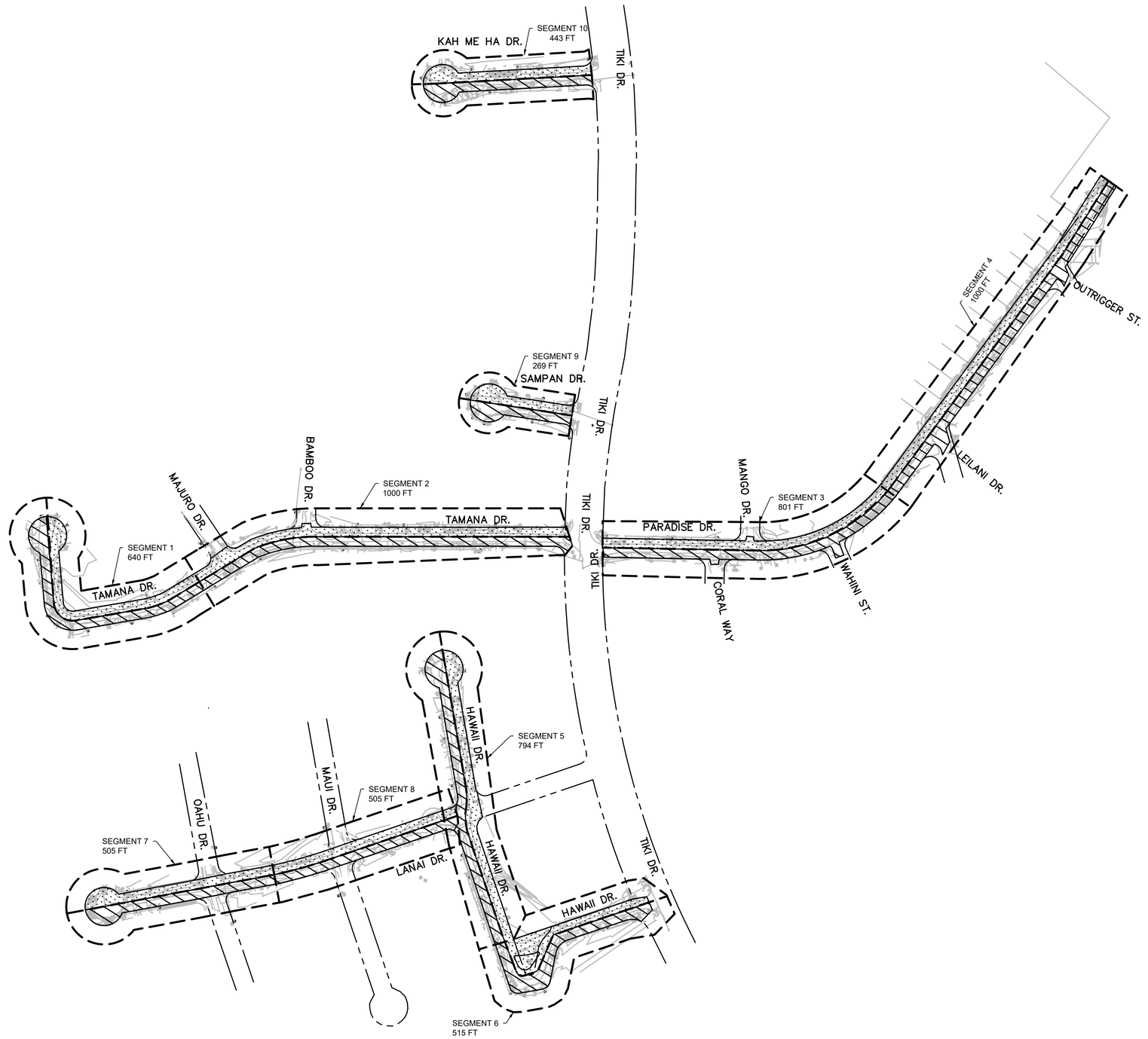
BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 150' 300'
GRAPHIC SCALE 1"=150'



LEGEND

PHASE I

PHASE II

NOTE:

- CONSTRUCTION OF ROADWAY SHALL BE ONLY 1000 FEET AT A TIME.
- COMPLETE BOTH PHASES OF ONE STREET BEFORE MOVING TO THE NEXT STREET.

P-3997

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TIKI ISLAND

TRAFFIC CONTROL PLAN 2 OF 2

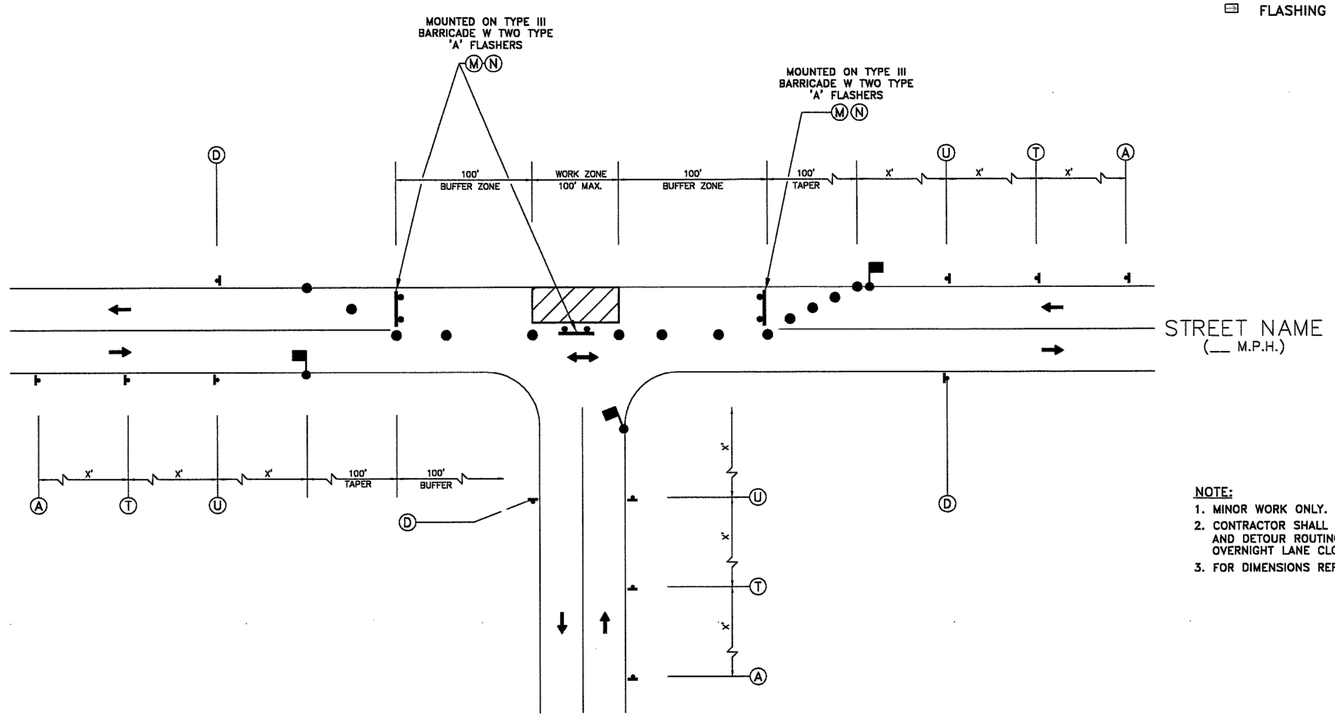
SHEET 06
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\43 TRAFFIC CONTROL PLAN.dwg Sep 18, 2020 - 8:27am Edited by: cmuellner

A	T	U	D	M	N
ROAD WORK AHEAD	ONE LANE ROAD		END ROAD WORK	DO NOT ENTER	ROAD CLOSED
CW20-1	CW20-4	CW20-7	G20-2	R5-1	R11-2

LEGEND

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- TRAFFIC FLOW
- BARRICADE
- FLASHING ARROW PANEL



NOTE:

1. MINOR WORK ONLY.
2. CONTRACTOR SHALL USE ONE-LANE ROAD CLOSURE AND DETOUR ROUTING FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01512-01

PHASE 1 OF 3
TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION

P-3997

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APPROVED BY: J.I.
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09/21/2020

TIKI ISLAND

TCP TYPICAL 3-WAY
INTERSECTION PHASE 1 OF 3

SHEET 07
OF 55

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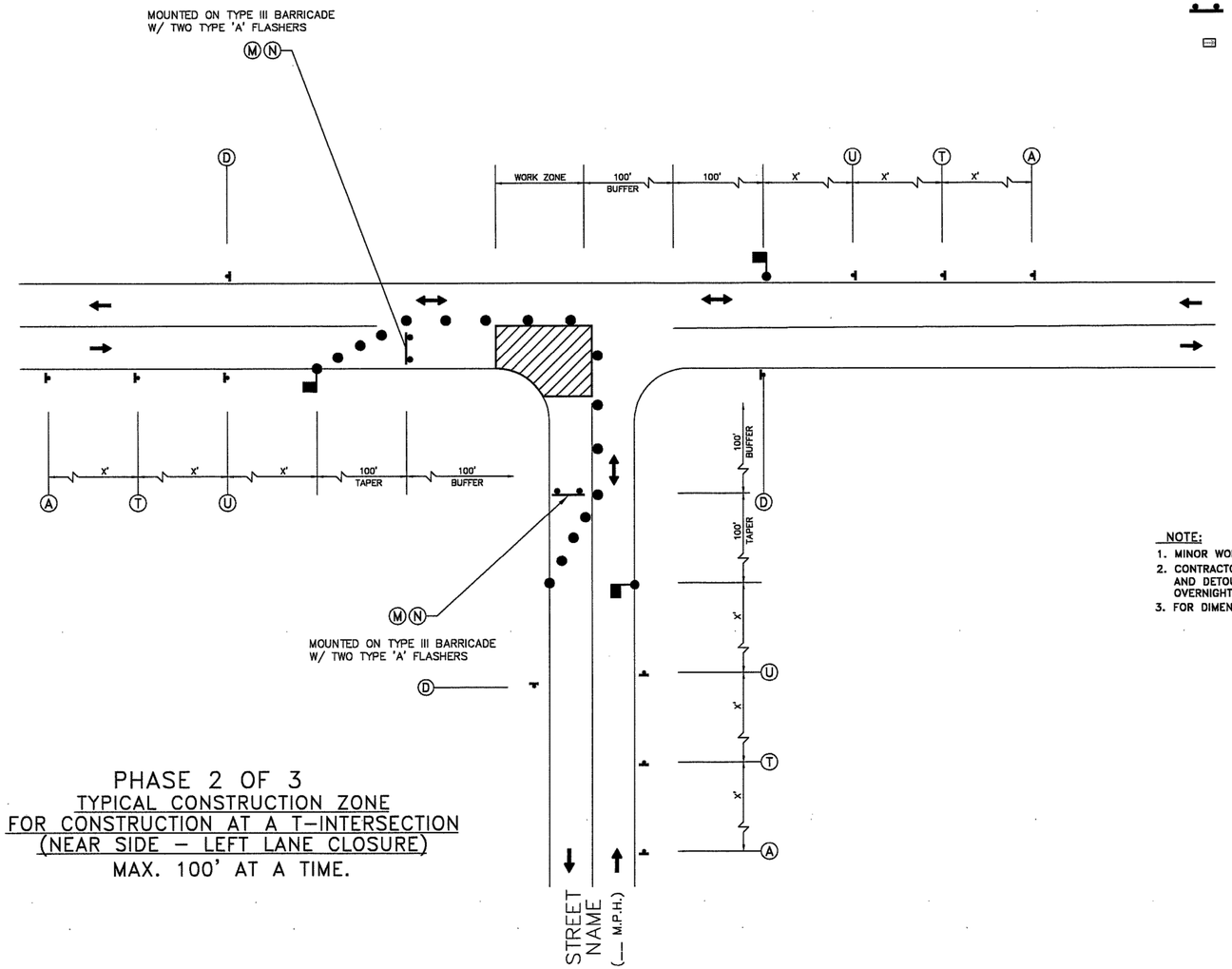
A	T	U	D	M	N
ROAD WORK AHEAD	ONE LANE ROAD		END ROAD WORK	DO NOT ENTER	ROAD CLOSED
CW20-1	CW20-4	CW20-7	G20-2	R5-1	R11-2

LEGEND

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- TRAFFIC FLOW
- BARRICADE
- FLASHING ARROW PANEL



PHASE 2 OF 3
TYPICAL CONSTRUCTION ZONE
FOR CONSTRUCTION AT A T-INTERSECTION
(NEAR SIDE – LEFT LANE CLOSURE)
MAX. 100' AT A TIME.

NOTE:
1. MINOR WORK ONLY.
2. CONTRACTOR SHALL USE ONE-LANE ROAD CLOSURE AND DETOUR ROUTING FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01512-01

P-3997

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SCALE: N/A
DATE: 08/26/20

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TIKI ISLAND

TCP TYPICAL 3-WAY
INTERSECTION PHASE 2 OF 3

SHEET 08
OF 55

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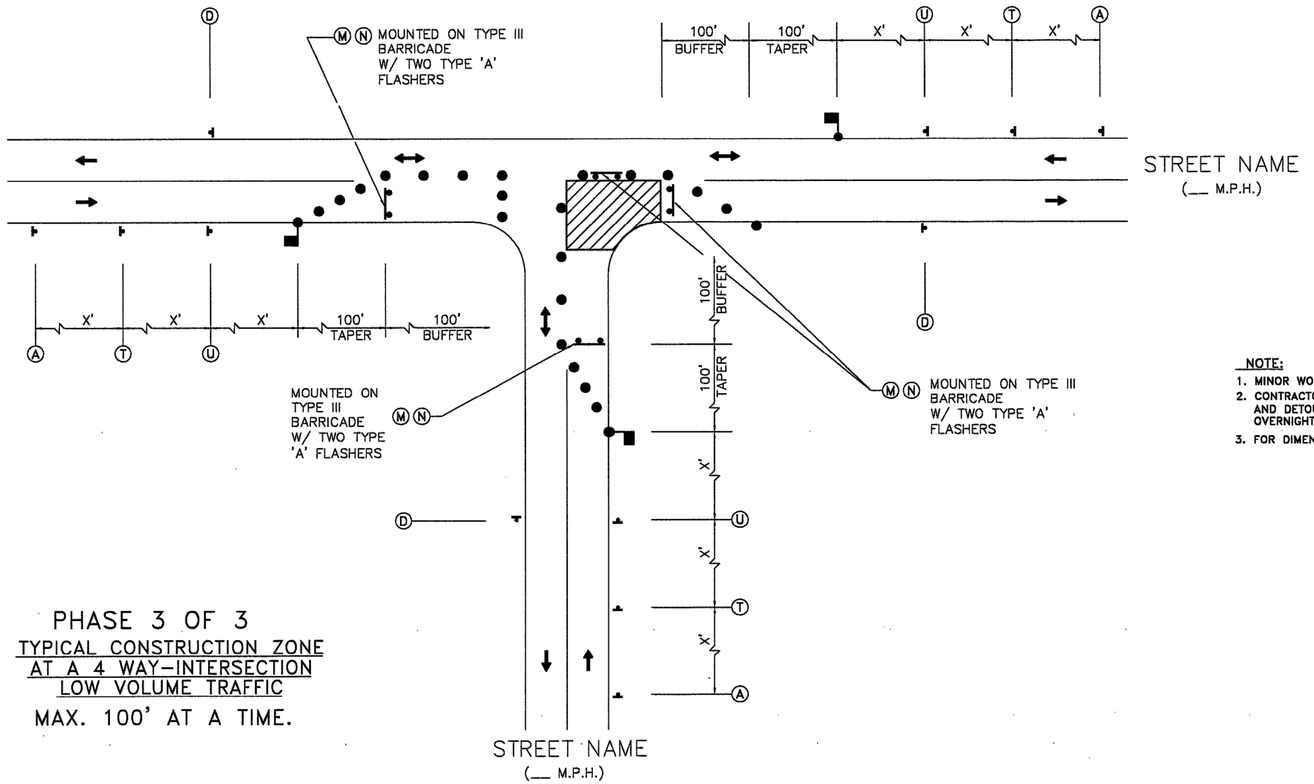
A	T	U	D	M	N
ROAD WORK AHEAD	ONE LANE ROAD		END ROAD WORK	DO NOT ENTER	ROAD CLOSED
CW20-1	CW20-4	CW20-7	G20-2	R5-1	R11-2

LEGEND

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- TRAFFIC FLOW
- BARRICADE
- FLASHING ARROW PANEL



PHASE 3 OF 3

TYPICAL CONSTRUCTION ZONE AT A 4 WAY-INTERSECTION LOW VOLUME TRAFFIC

MAX. 100' AT A TIME.

NOTE:

1. MINOR WORK ONLY.
2. CONTRACTOR SHALL USE ONE-LANE ROAD CLOSURE AND DETOUR ROUTING FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01512-01

P-3997

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SCALE: N/A
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09/21/2020

TIKI ISLAND

TCP TYPICAL 3-WAY
INTERSECTION PHASE 3 OF 3

SHEET 09 OF 55

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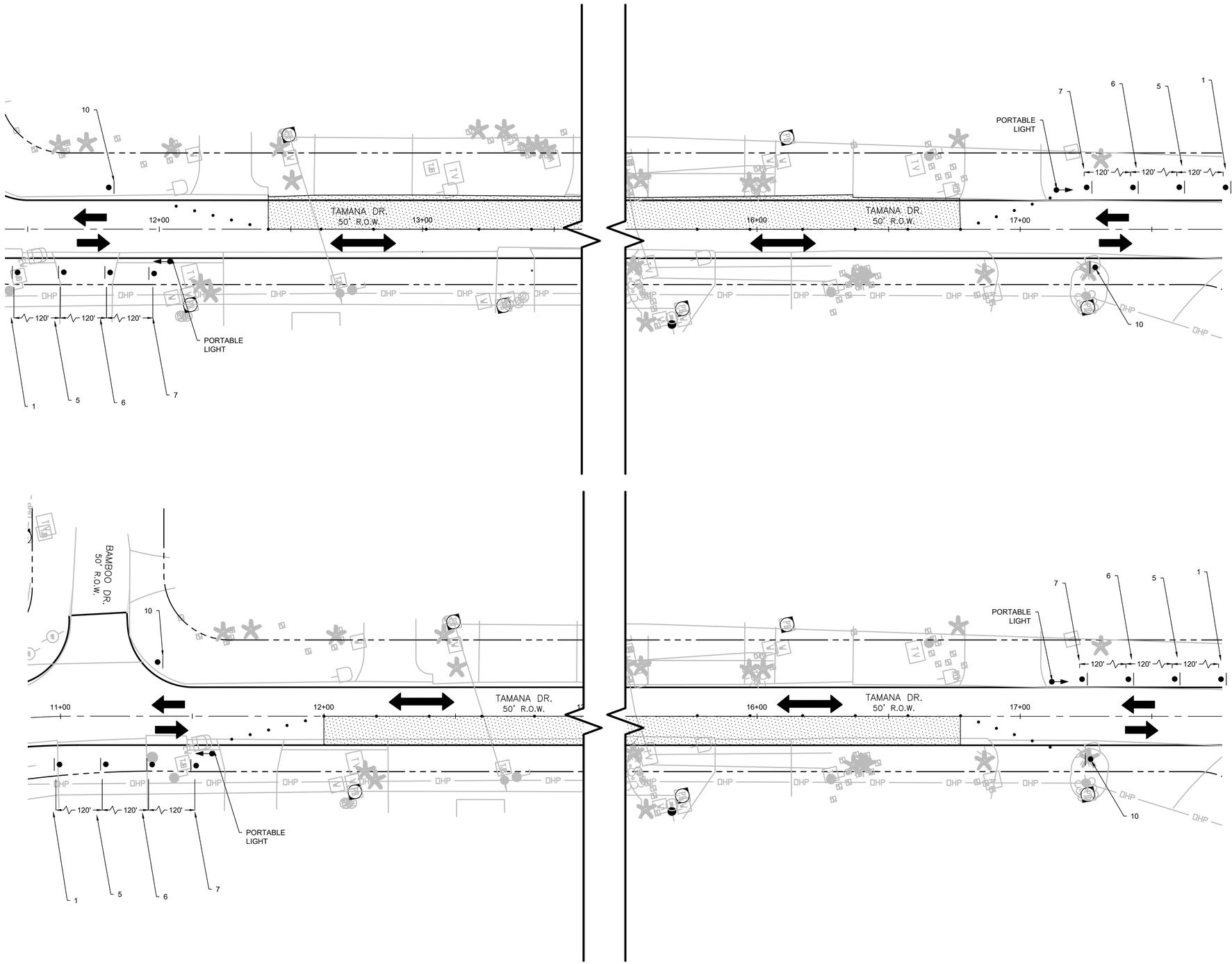

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. DD9997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:

1. TYPICAL ONE-LANE CLOSURE PLAN FOR ALL STREETS
2. RELOCATE AND RESTORE EXISTING MAILBOXES.

① ROAD WORK AHEAD — CW21-4D

② VP-ICL

③ VP-ICR

④ ROAD CLOSED — TYPE III B BARR. W/R11-2

⑤ ONE LANE ROAD AHEAD — CW20-4D

⑥ SW3-3

TRAFFIC FLOW

⑦ STOP HERE ON RED

⑧ BE PREPARED TO STOP — MCW21-8

⑨ CW6-3 — 25 MPH

⑩ END ROAD WORK — G20-2
MOUNTED ON TYPE III (C) BARRICADE W/TYPE (A) WARNING LIGHT

Construction Zone

P-3997

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TIKI ISLAND

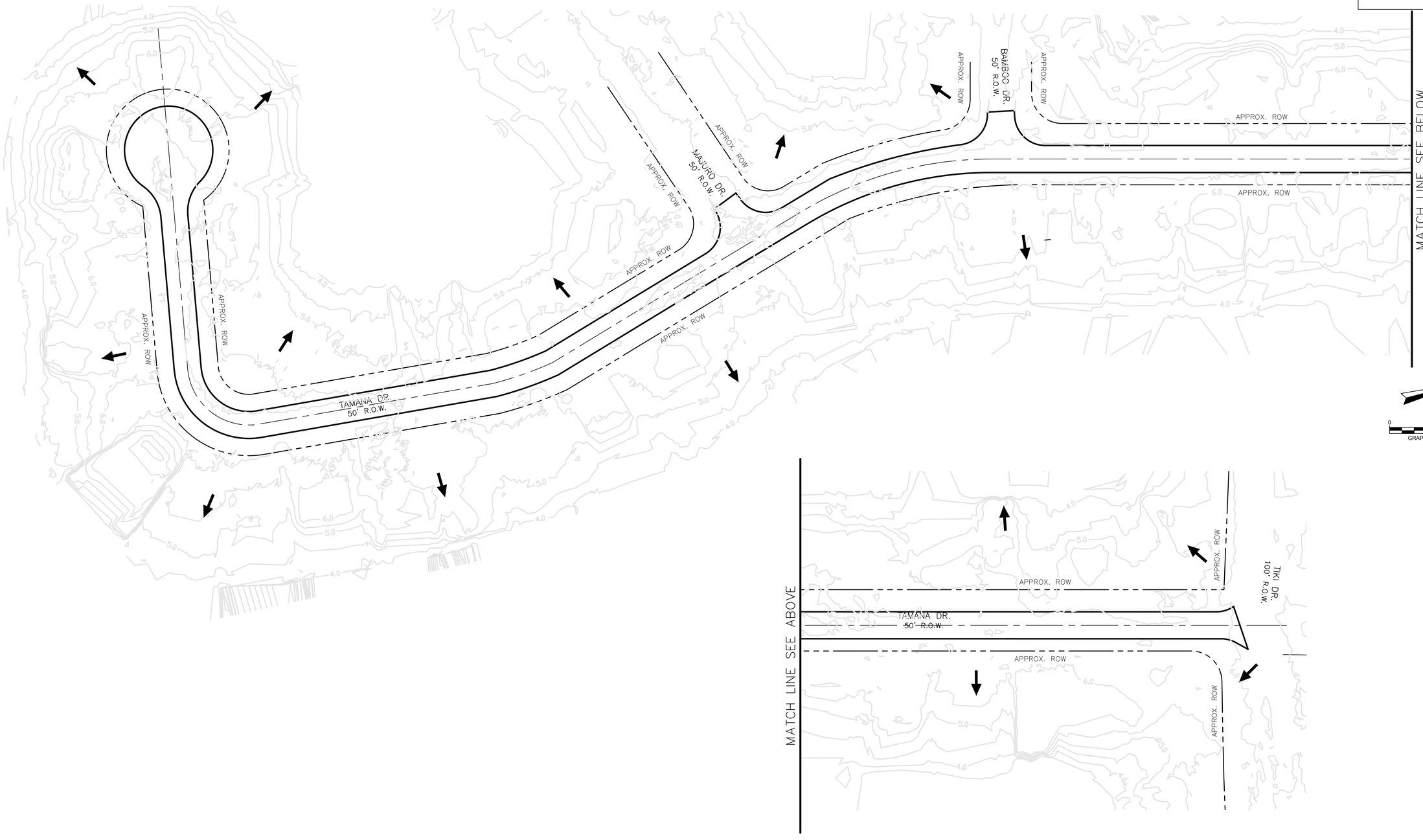
TRAFFIC CONTROL PLAN DETAIL SHEET

SHEET 10 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\10 TCP DETAIL SHEETS.dwg Sep 18, 2020 - 8:28am Edited by: cmuellner

LEGEND:

EXISTING SHEET FLOW



P-3997

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TIKI ISLAND

DRAINAGE AREA MAP
SHEET 1 OF 5

SHEET 11 OF 55

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P-3997

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TIKI ISLAND

DRAINAGE AREA MAP
SHEET 2 OF 5

SHEET 12 OF 55

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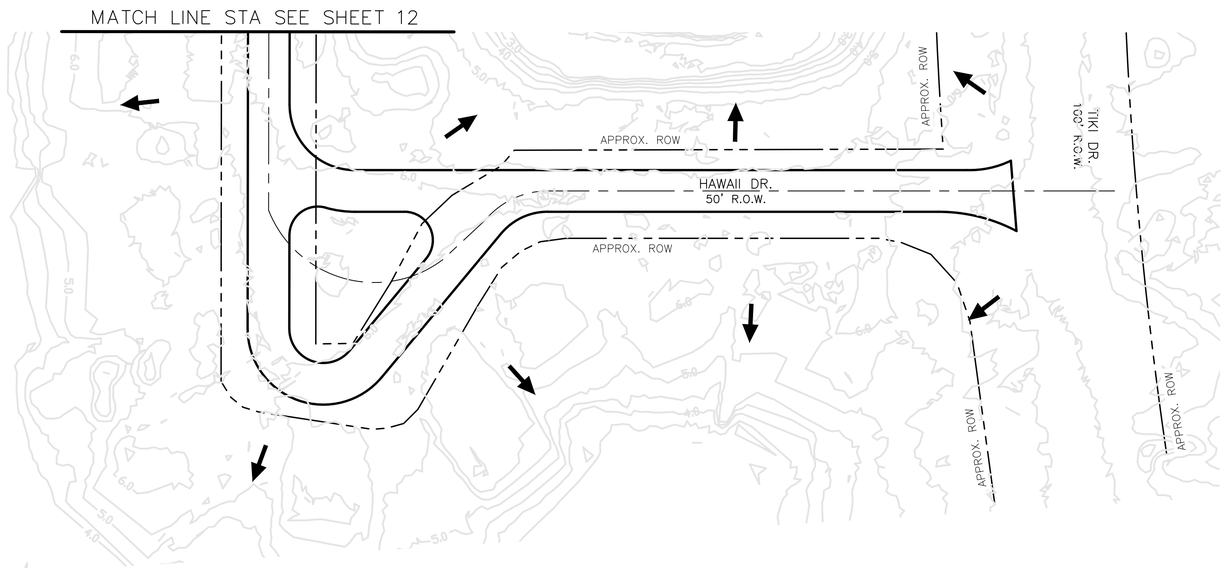
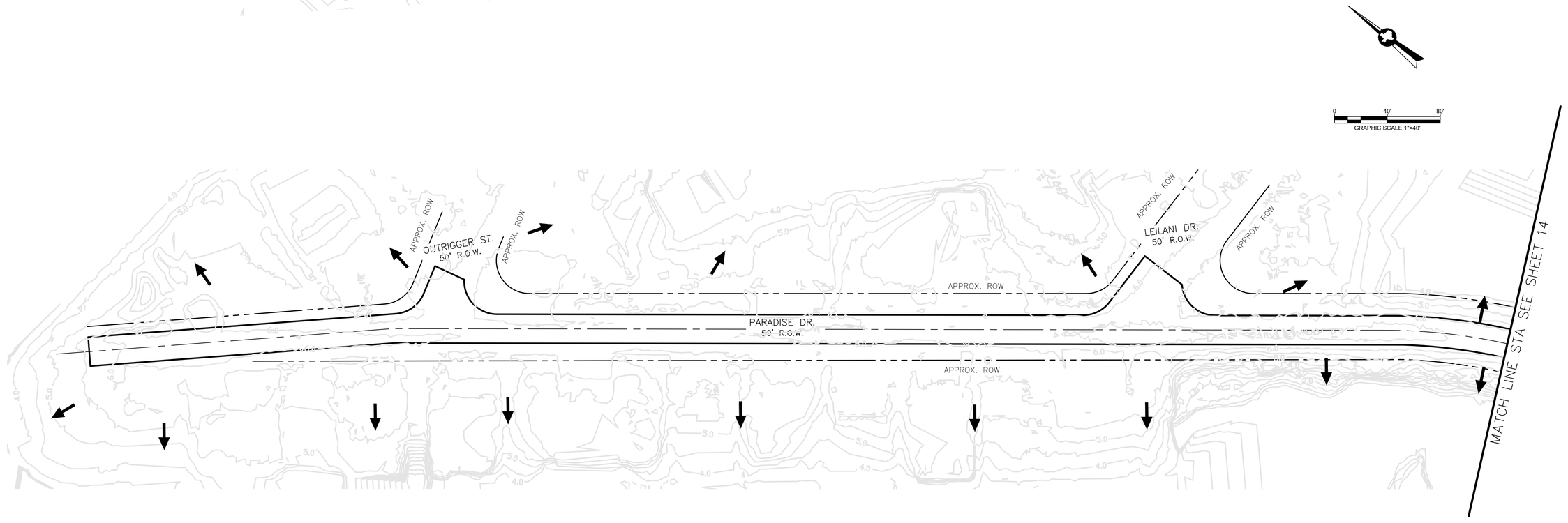
LEGEND:

EXISTING SHEET FLOW



0 40' 80'

GRAPHIC SCALE 1"=40'



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TIKI ISLAND

DRAINAGE AREA MAP
SHEET 3 OF 5

SHEET 13 OF 55

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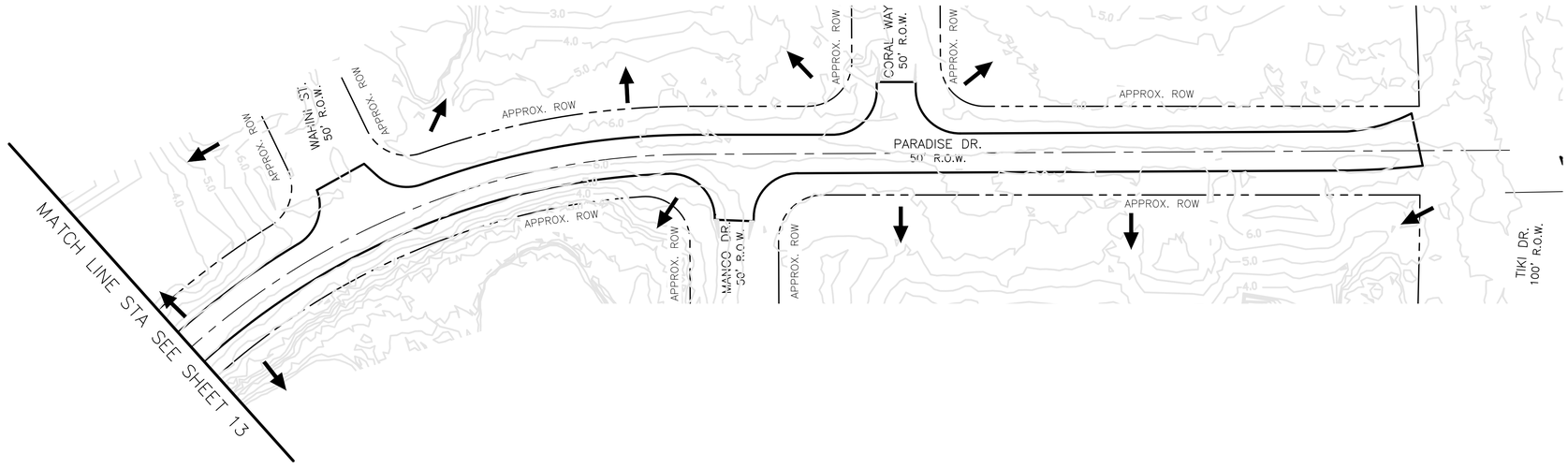
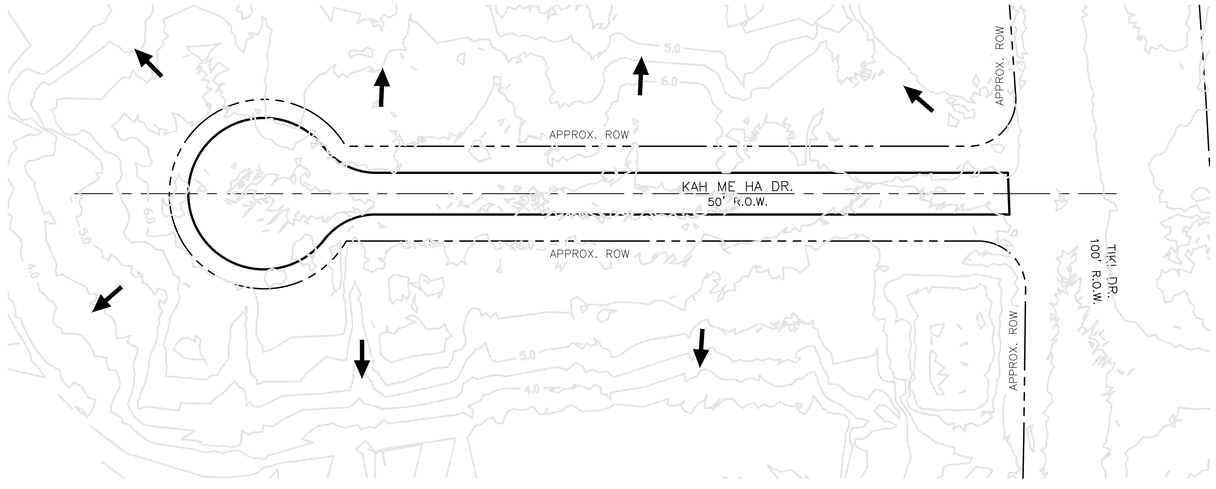
LEGEND:

EXISTING SHEET FLOW

0 40' 80'

GRAPHIC SCALE 1"=40'





0 40' 80'

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TIKI ISLAND

DRAINAGE AREA MAP
SHEET 4 OF 5

SHEET 14 OF 55

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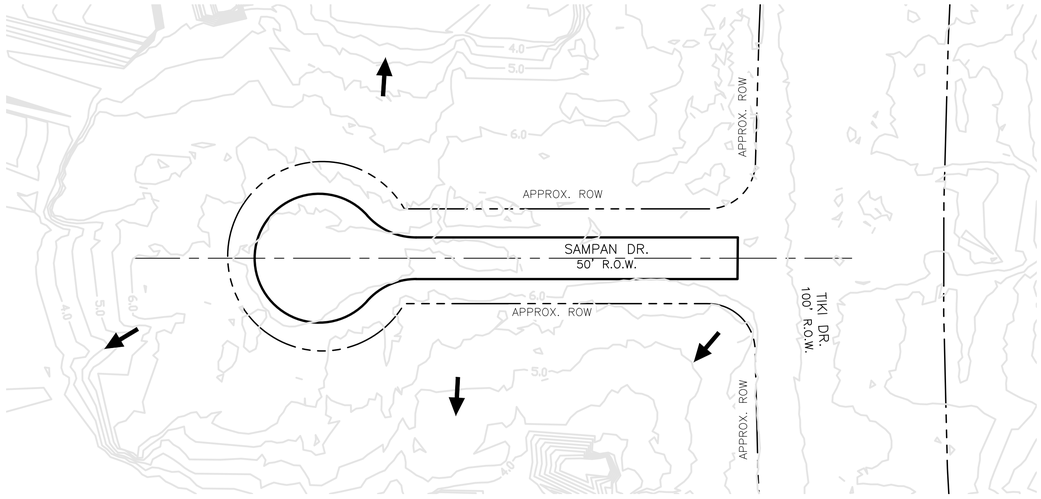
LEGEND:

EXISTING SHEET FLOW



0 40' 80'

GRAPHIC SCALE 1"=40'

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TIKI ISLAND

DRAINAGE AREA MAP
SHEET 5 OF 5

SHEET 15 OF 55

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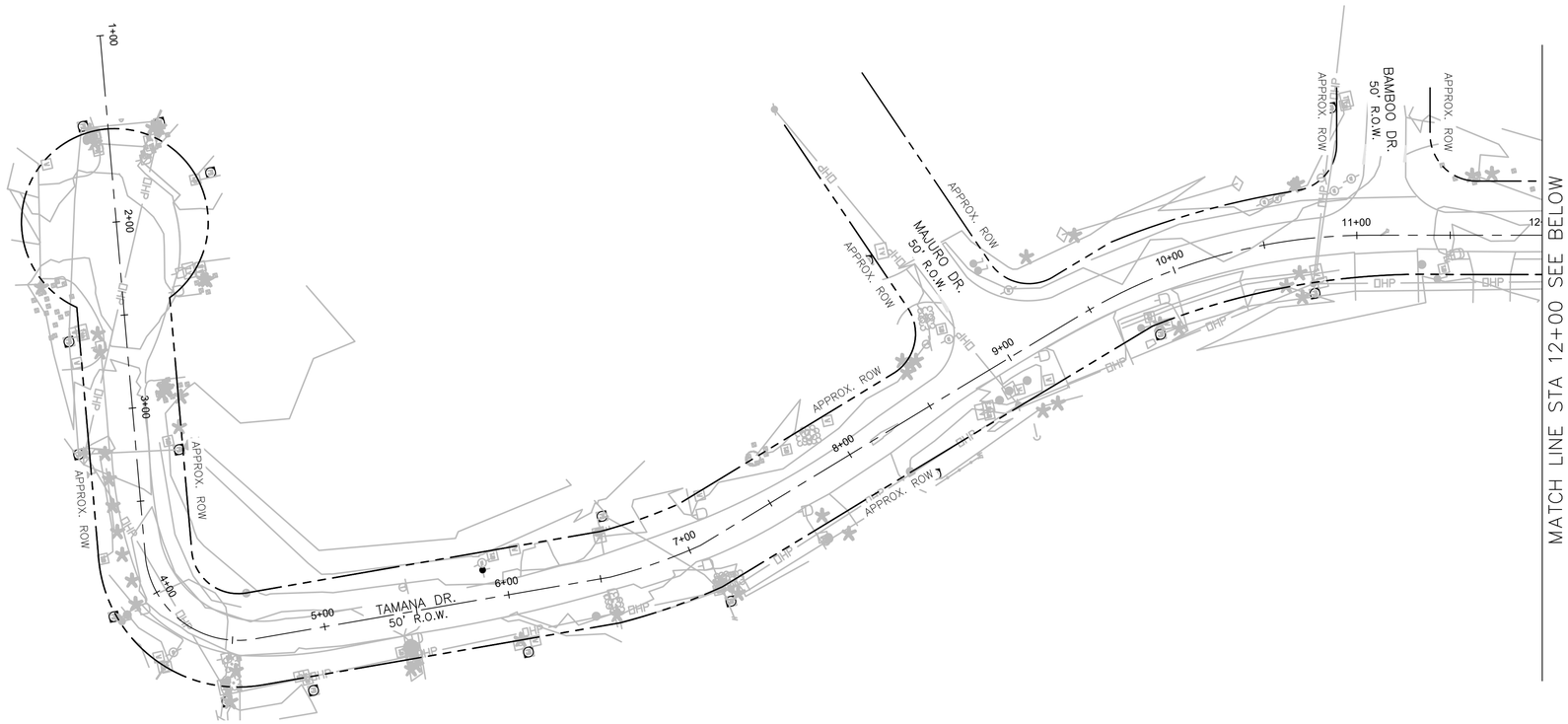

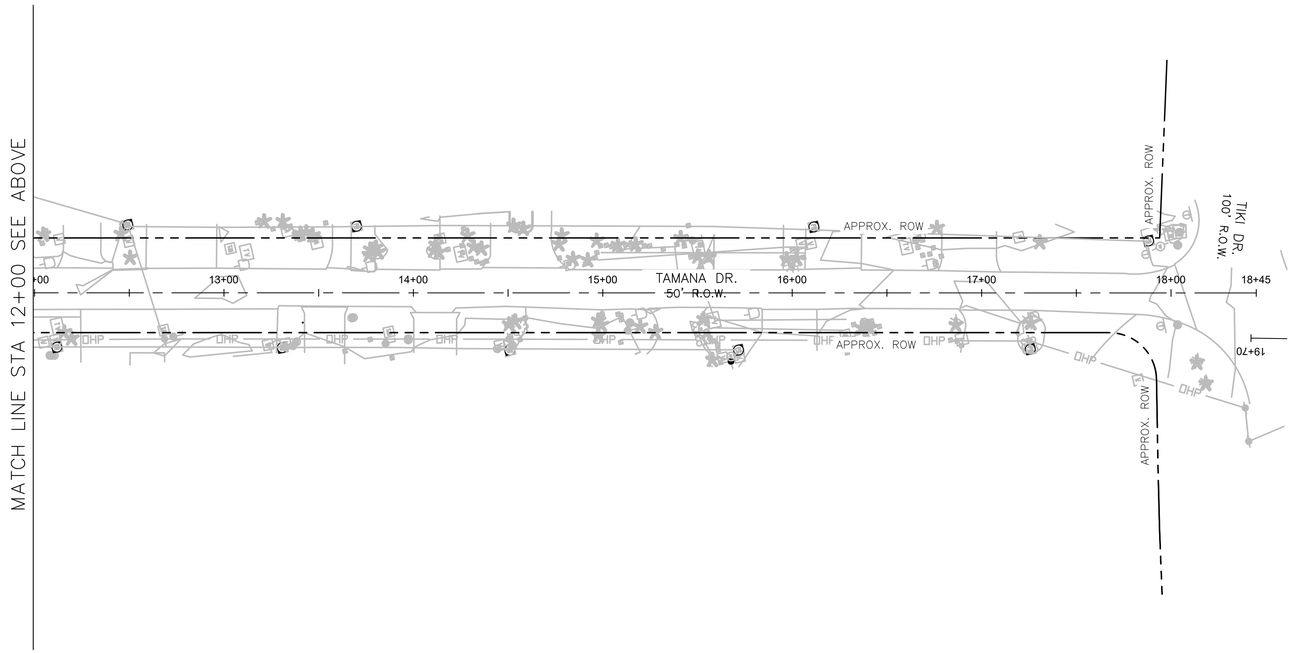

BENCHMARK

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NAD 83, NAVD88, ELEVATION = 11.9'

0 40' 80'
GRAPHIC SCALE 1"=40'

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TIKI ISLAND

SURVEY CONTROL SHEET 1 OF 5

SHEET 16 OF 55

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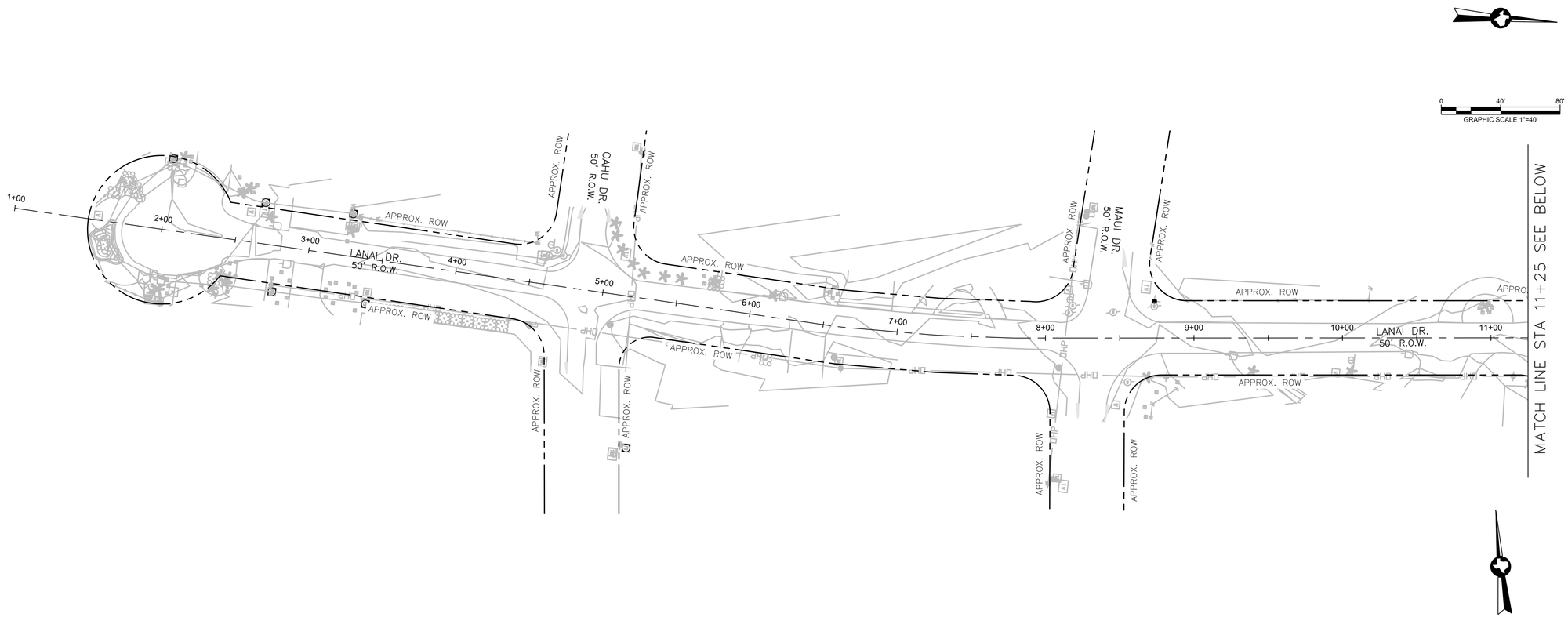
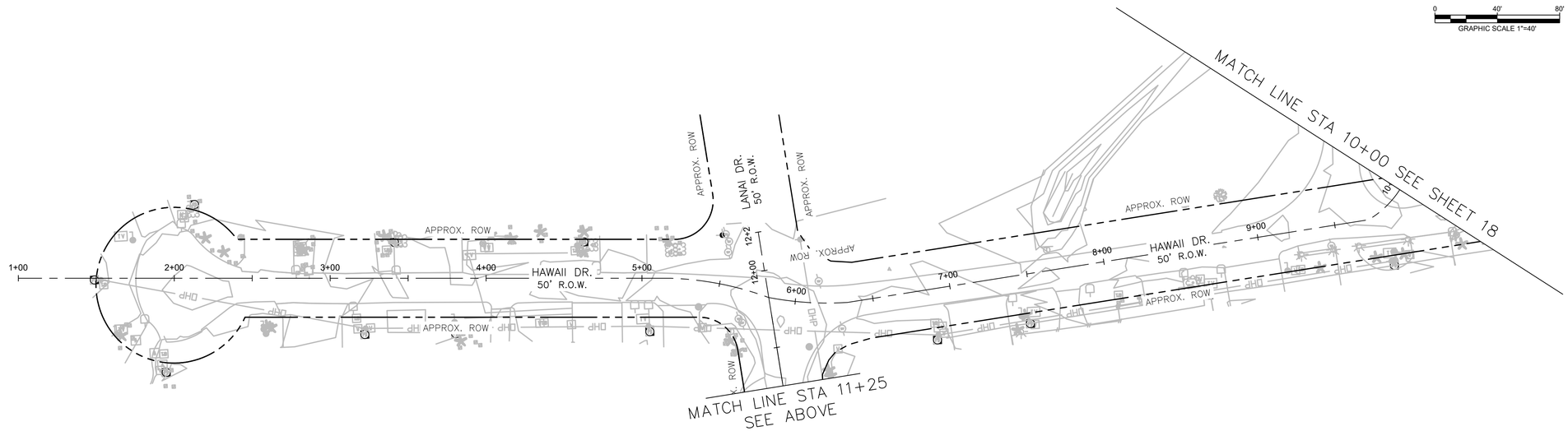
BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'





P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
ENGINEERING THE FUTURE SINCE 1938
10011 Meadowglen Lane
Houston, Texas 77042
EHRAinc.com | 713.784.4500
TBPE No F-726 | TBPLS No 10092300

STATE OF TEXAS
JOHN J. IVERY, JR
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

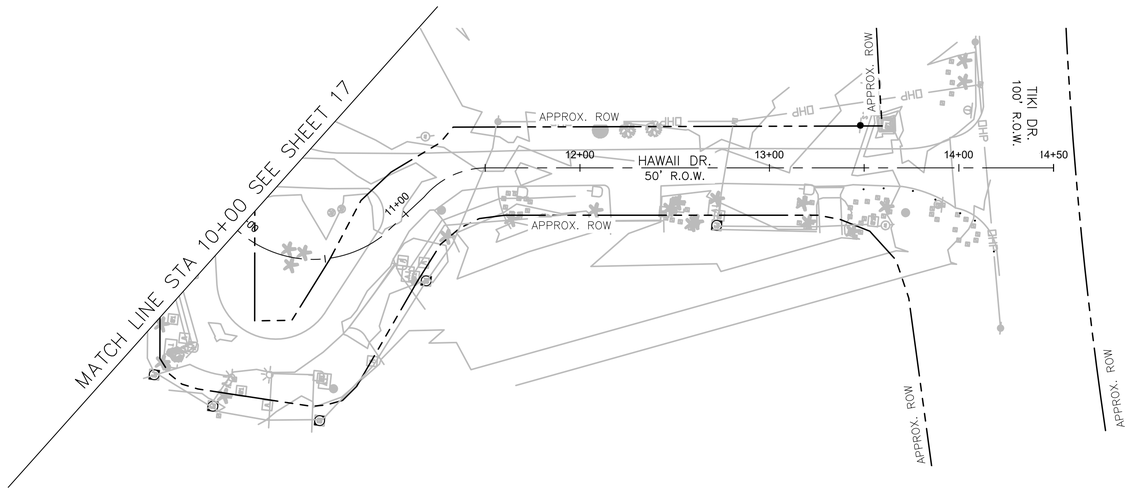
SURVEY CONTROL SHEET 2 OF 5

SHEET 17 OF 55

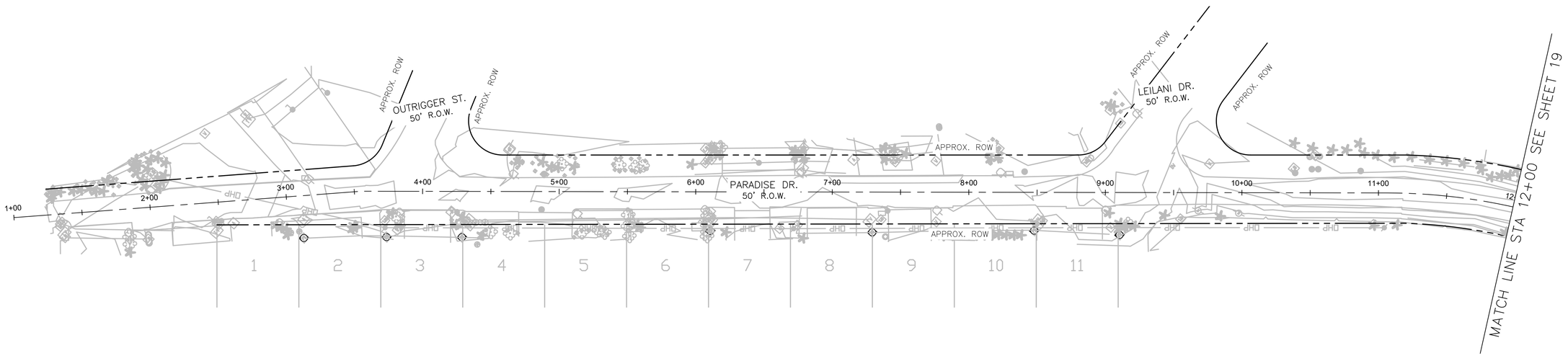
P:\181-062-00\Drawings_TIKI ISLAND\04-08 SURVEY CONTROL SHEETS.dwg Sep 18, 2020-8:30am Edited by: cmuellner

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'



0 40' 80'
GRAPHIC SCALE 1"=40'



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TIKI ISLAND

SURVEY CONTROL SHEET 3 OF 5

SHEET 18 OF 55

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BENCHMARK

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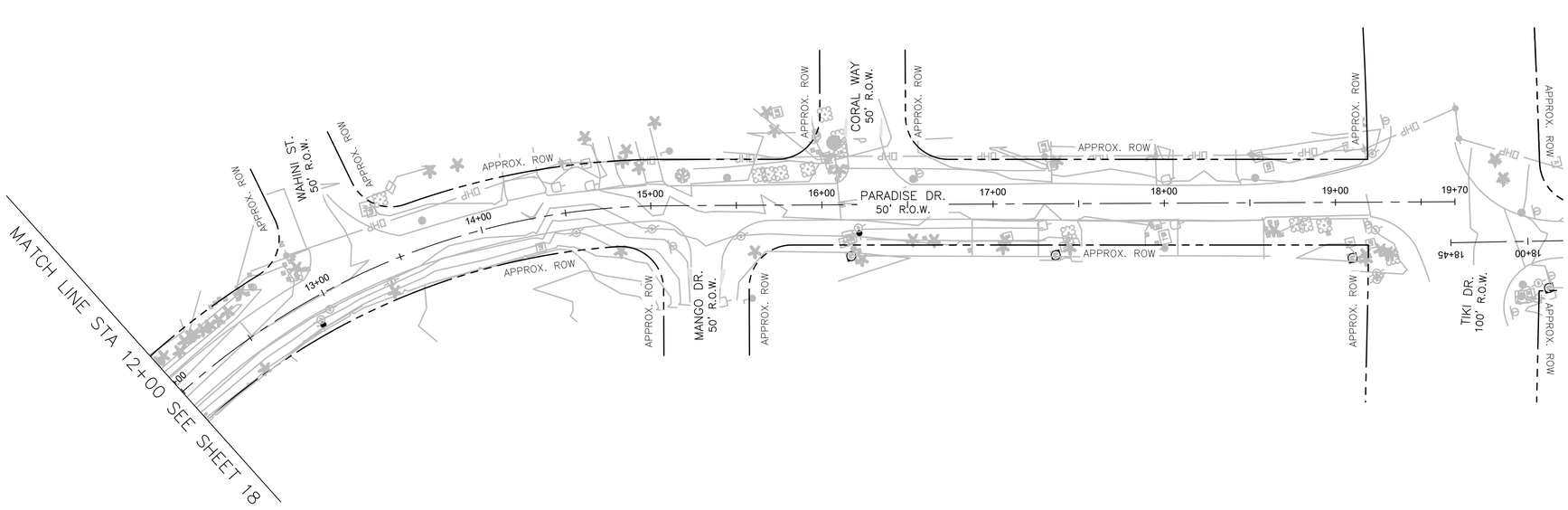
NAD 83, NAVD88, ELEVATION = 11.9'



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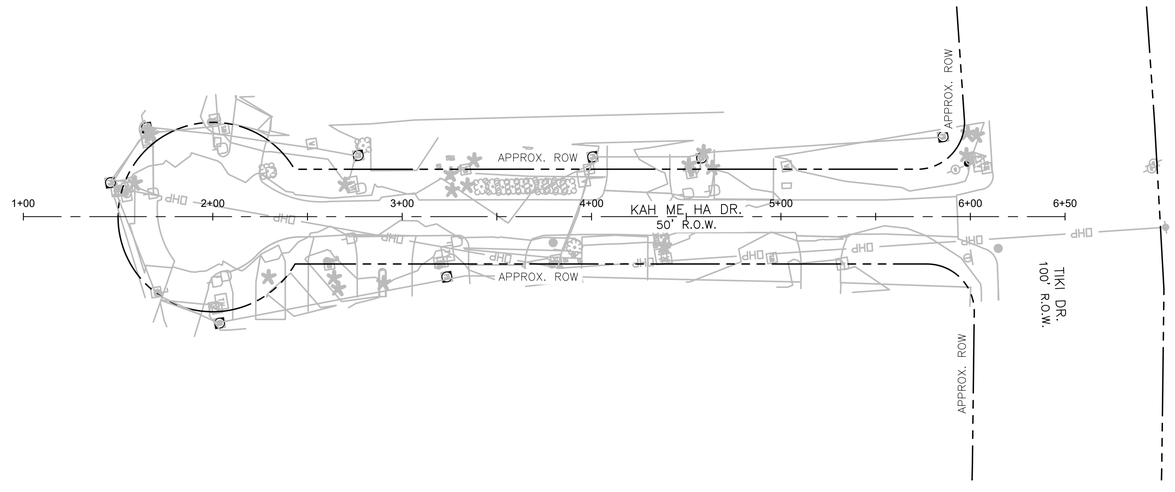

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TIKI ISLAND

SURVEY CONTROL SHEET 4 OF 5

SHEET 19 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\04-08 SURVEY CONTROL SHEETS.dwg Sep 18, 2020 - 8:30am Edited by: cmuellner

BENCHMARK

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0 40' 80'
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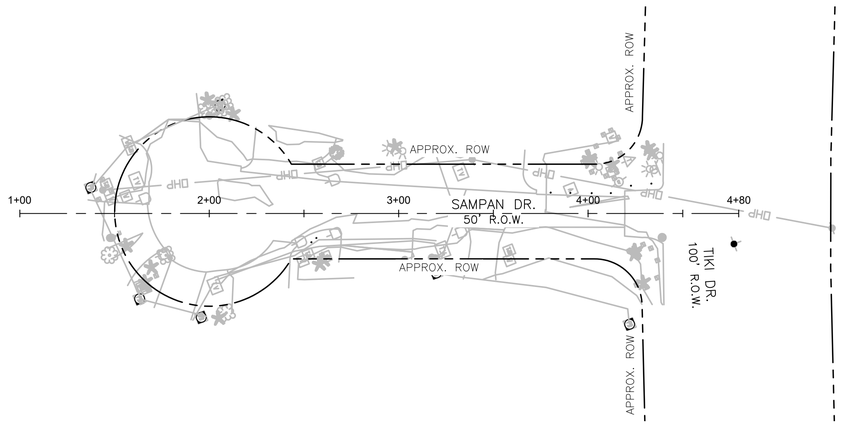

P-3997

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SCALE: N/A
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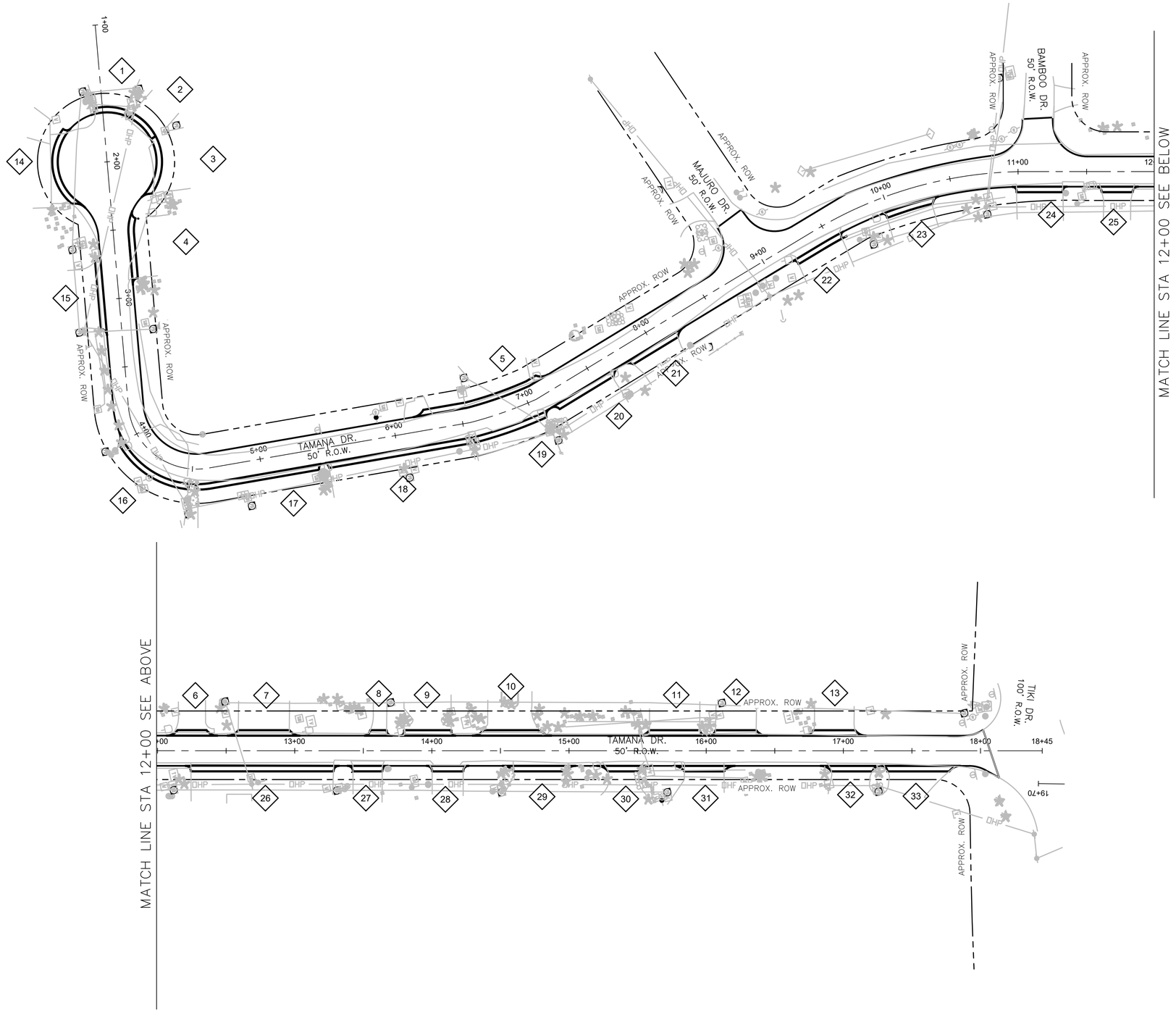
TIKI ISLAND

SURVEY CONTROL SHEET 5 OF 5

SHEET 20 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\04-08 SURVEY CONTROL SHEETS.dwg Sep 18, 2020-8:30am Edited by: cmuellner



0 40' 80'

GRAPHIC SCALE 1"=40'

LEGEND

◇ # DRIVEWAY NUMBER

NOTE: LIMIT DRIVEWAY RECONSTRUCTION TO 4' FROM ROADWAY.

0 40' 80'

GRAPHIC SCALE 1"=40'

P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
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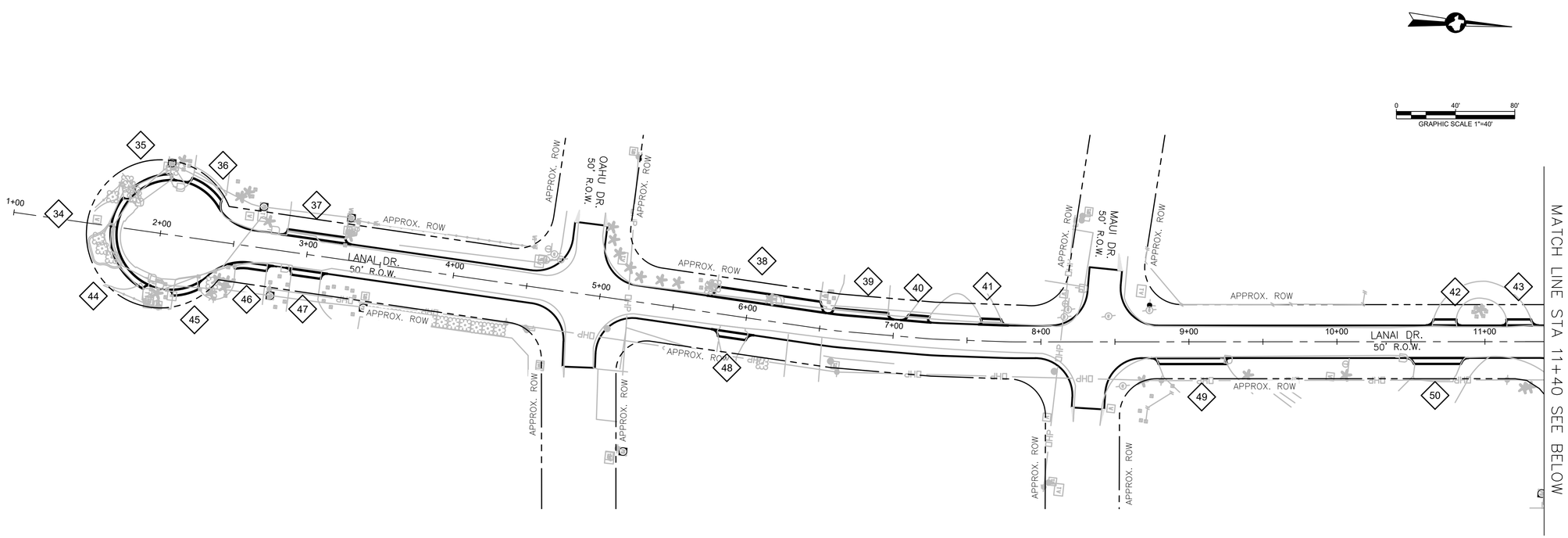
TIKI ISLAND

DRIVEWAY SHEET 1 OF 5

SHEET 21 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\09-14 DRIVEWAY SHEETS.dwg Sep 18, 2020-8:30am Edited by: cmuellner



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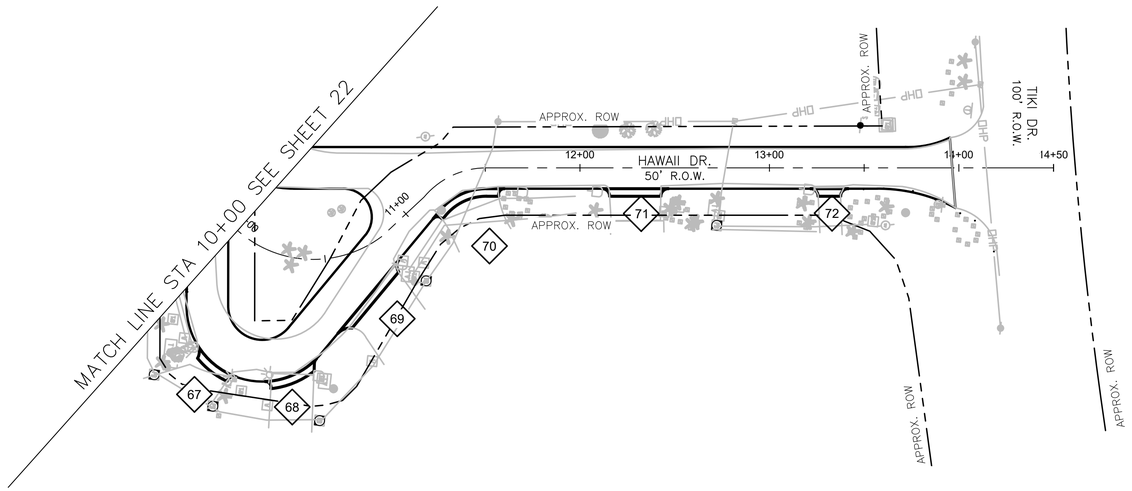
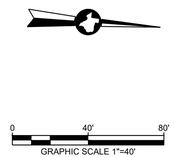
TIKI ISLAND

DRIVEWAY SHEET 2 OF 5

SHEET 22 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\09-14 DRIVEWAY SHEETS.dwg Sep 18, 2020-8:31am Edited by: cmuellner

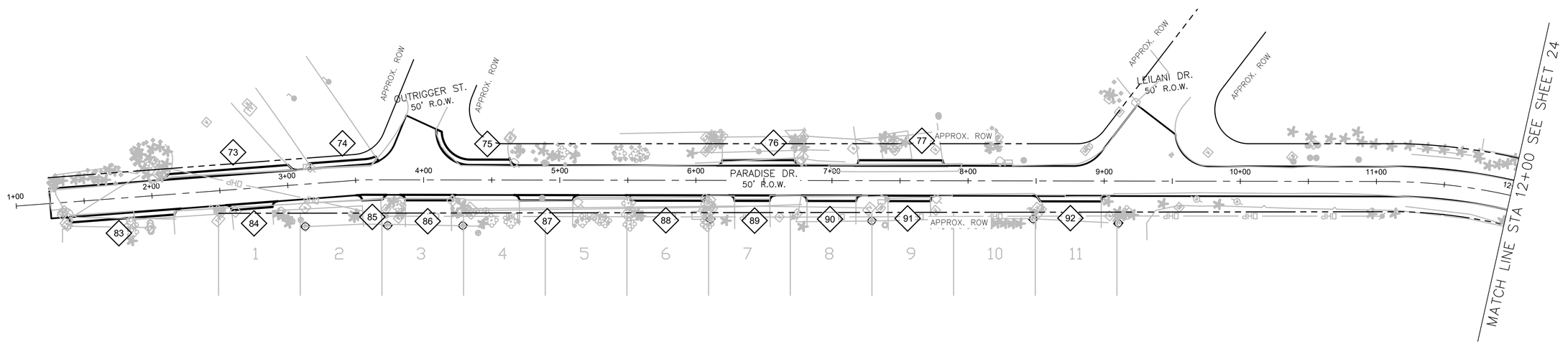




LEGEND

DRIVEWAY NUMBER

NOTE: LIMIT DRIVEWAY RECONSTRUCTION TO 4' FROM ROADWAY.



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GALVESTON COUNTY
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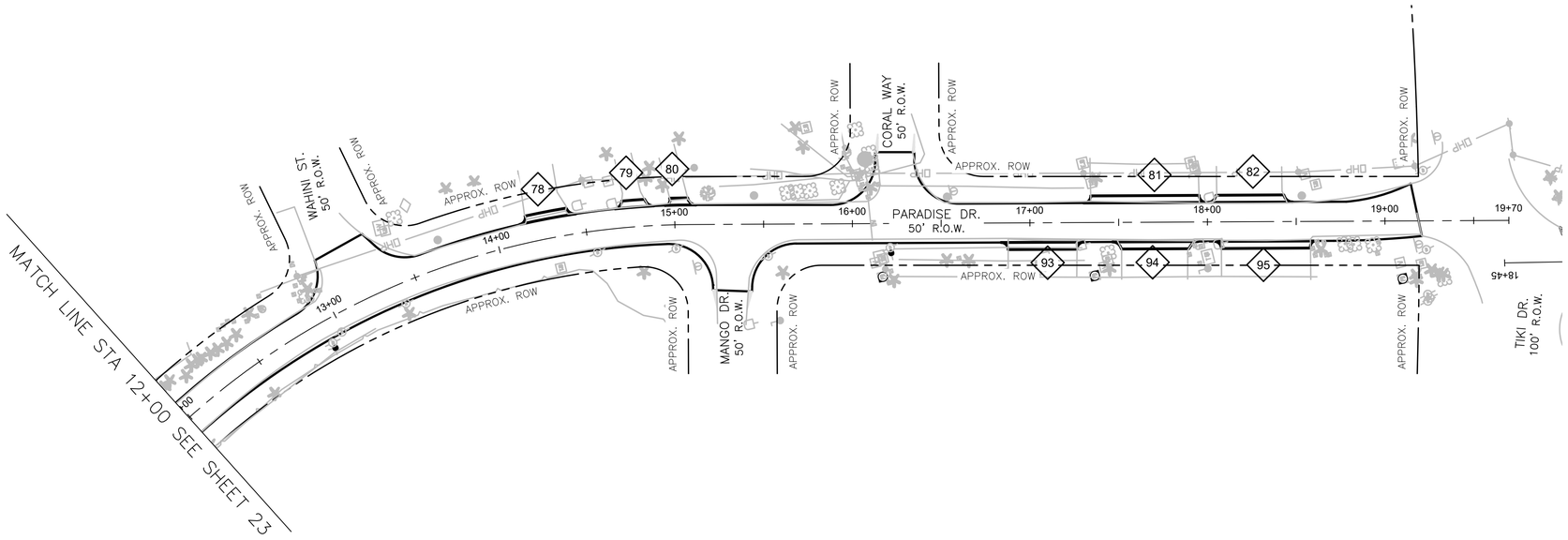
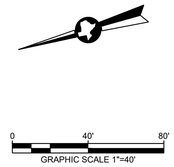
TIKI ISLAND

DRIVEWAY SHEET 3 OF 5

SHEET 23
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\09-14 DRIVEWAY SHEETS.dwg Sep 18, 2020-8:31am Edited by: cmuellner

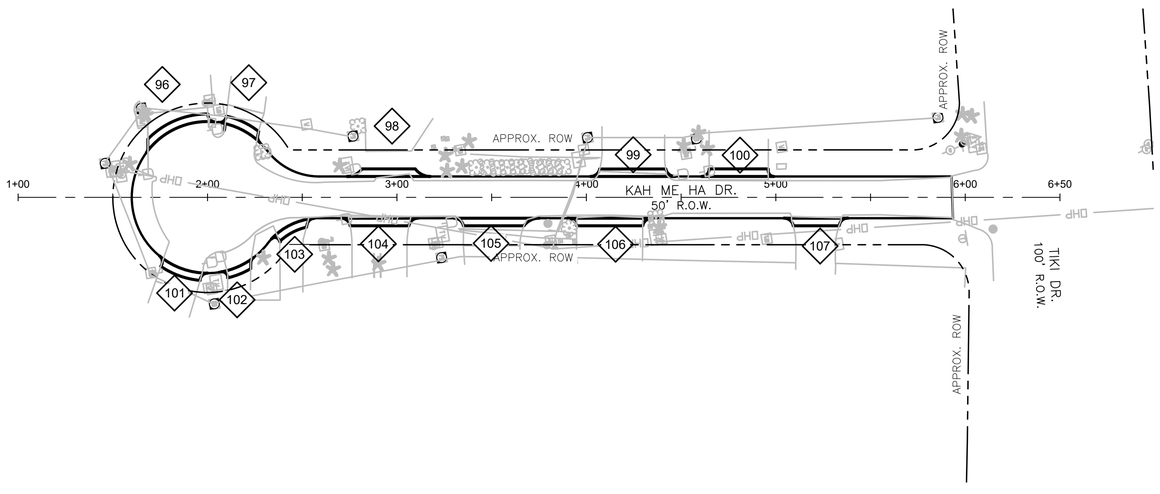


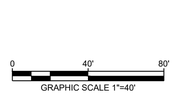


LEGEND

DRIVEWAY NUMBER

NOTE: LIMIT DRIVEWAY RECONSTRUCTION TO 4' FROM ROADWAY.





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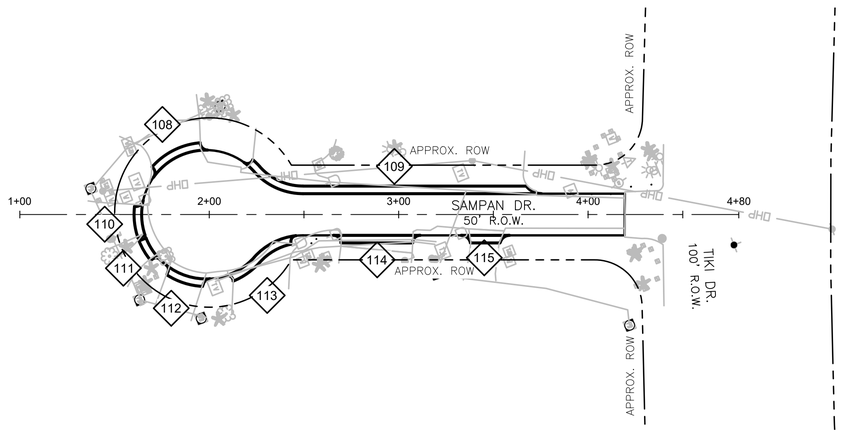
TIKI ISLAND

DRIVEWAY SHEET 4 OF 5

SHEET 24 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\09-14 DRIVEWAY SHEETS.dwg Sep 18, 2020-8:31am Edited by: cmuellner



0 40' 80'

GRAPHIC SCALE 1"=40'

LEGEND

DRIVEWAY NUMBER

NOTE: LIMIT DRIVEWAY RECONSTRUCTION TO 4' FROM ROADWAY.

P-3997

NO.	REVISIONS	DATE	NAME

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STATE OF TEXAS
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09/21/2020

TIKI ISLAND

DRIVEWAY SHEET 5 OF 5

SHEET 25 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\09-14 DRIVEWAY SHEETS.dwg Sep 18, 2020-8:31am Edited by: cmuellner

TAMANA DR DRIVEWAY SUMMARY

DRIVEWAY	RESIDENTIAL/ COMMERICAL	DRIVEWAY TYPE	DEPTH	DRIVEWAY AREA (SY)	DRIVEWAY CL STATION AT GUTTER	DRIVEWAY CL OFFSET AT GUTTER	GUTTER ELEVATION AT DRIVEWAY CL	EXIST WIDTH	NEW WIDTH	LEFT CURB RADIUS	RIGHT CURB RADIUS	LENGTH L1
1	RESIDENTIAL	CONCRETE	4	10	1+64.31	4.70L	5.82	26.24	26.24	4.00	2.00	6.11
2	RESIDENTIAL	CONCRETE	4	11	1+76.04	26.87L	5.34	26.17	26.17	2.00	0.00	5.66
3	RESIDENTAL	CONCRETE	4	20	2+08.79	34.91L	5.68	45.34	45.34	0.00	10.00	8.18
4	RESIDENTIAL	CONCRETE	4	21	2+63.58	11.00L	5.99	46.52	46.52	4.00	4.00	6.48
5	RESIDENTIAL	CONCRETE	4	41	6+69.06	10.97L	5.62	86.00	86.00	10.00	10.00	9.27
6	RESIDENTIAL	CONCRETE	4	12	12+25.78	11.06L	5.61	21.08	21.08	10.00	10.00	9.27
7	RESIDENTAL	CONCRETE	4	19	12+78.27	11.00L	5.94	37.20	37.20	10.00	10.00	8.90
8	RESIDENTIAL	CONCRETE	4	6	13+62.39	11.00L	5.98	10.57	11.88	4.00	4.00	6.28
9	RESIDENTIAL	CONCRETE	4	18	13+97.61	11.04L	5.87	34.35	34.38	3.00	3.00	4.73
10	RESIDENTIAL	CONCRETE	4	18	14+58.22	11.00L	5.77	35.25	41.52	10.00	10.00	8.13
11	RESIDENTAL	CONCRETE	4	18	15+76.05	11.02L	5.66	36.64	36.64	10.00	5.00	6.64
12	RESIDENTIAL	CONCRETE	4	15	16+23.95	11.03L	5.56	29.68	29.68	5.00	10.00	9.24
13	RESIDENTIAL	CONCRETE	4	14	16+94.17	11.02L	5.29	28.91	30.20	10.00	10.00	6.29
14	RESIDENTIAL	CONCRETE	4	27	2+00.80	35.89R	6.18	31.53	31.53	10.00	4.00	10.79
15	RESIDENTAL	CONCRETE	4	24	2+95.15	11.00R	6.23	49.37	49.37	5.00	5.00	6.85
16	RESIDENTIAL	CONCRETE	4	28	4+22.18	11.00R	6.20	31.06	31.06	2.00	10.00	8.27
17	RESIDENTIAL	CONCRETE	4	40	5+02.37	11.00R	6.00	89.72	89.72	5.00	5.00	4.64
18	RESIDENTIAL	CONCRETE	4	47	6+00.51	11.00R	6.00	105.18	105.18	5.00	5.00	4.63
19	RESIDENTIAL	CONCRETE	4	25	6+80.97	11.00R	5.60	55.28	55.28	5.00	5.00	7.26
20	RESIDENTIAL	CONCRETE	4	22	7+41.96	11.00R	5.80	45.96	45.96	10.00	5.00	9.27
21	RESIDENTIAL	CONCRETE	4	19	7+99.38	11.00R	5.84	37.81	37.81	10.00	10.00	9.27
22	RESIDENTIAL	CONCRETE	4	19	9+39.62	11.00R	5.76	36.81	36.81	10.00	10.00	9.27
23	RESIDENTIAL	CONCRETE	4	20	10+17.03	11.00R	5.68	34.08	34.08	5.00	5.00	6.90
24	RESIDENTIAL	CONCRETE	4	16	11+16.28	11.00R	5.88	33.69	33.69	5.00	5.00	6.93
25	RESIDENTIAL	CONCRETE	4	13	11+72.91	11.00R	5.93	24.50	24.50	10.00	10.00	9.27
26	RESIDENTIAL	CONCRETE	4	48	12+75.52	11.00R	5.90	104.06	103.87	4.00	4.00	9.27
27	RESIDENTIAL	CONCRETE	4	11	13+54.27	11.04R	5.82	21.33	21.33	4.00	4.00	9.27
28	RESIDENTIAL	CONCRETE	4	20	14+12.23	11.00R	5.81	22.64	22.64	4.00	4.00	10.98
29	RESIDENTIAL	CONCRETE	4	20	14+79.73	11.00R	5.63	39.25	37.34	10.00	10.00	9.27
30	RESIDENTIAL	CONCRETE	4	14	15+40.33	11.00R	5.55	26.29	22.75	10.00	10.00	9.27
31	RESIDENTIAL	CONCRETE	4	15	15+99.28	11.00R	5.64	28.85	28.85	10.00	10.00	9.27
32	RESIDENTIAL	CONCRETE	4	15	17+03.82	11.00R	5.56	29.61	30.03	5.00	10.00	9.27
33	RESIDENTIAL	CONCRETE	4	23	17+60.62	11.00R	5.33	47.80	45.18	10.00	4.00	7.82
			TOTAL AREA:	686								

LANAI DR DRIVEWAY SUMMARY

DRIVEWAY	RESIDENTIAL/ COMMERICAL	DRIVEWAY TYPE	DEPTH	DRIVEWAY AREA (SY)	DRIVEWAY CL STATION AT GUTTER	DRIVEWAY CL OFFSET AT GUTTER	GUTTER ELEVATION AT DRIVEWAY CL	EXIST WIDTH	NEW WIDTH	LEFT CURB RADIUS	RIGHT CURB RADIUS	LENGTH L1
34 & 44	RESIDENTIAL	CONCRETE	4	31	1+72.69	12.90R	5.74	78.37	78.37	4.00	4.00	6.10
35	RESIDENTIAL	CONCRETE	4	12	1+90.27	32.81L	5.82	31.62	31.62	4.00	5.00	6.09
36	RESIDENTAL	CONCRETE	4	13	2+25.07	32.49L	5.78	26.41	26.41	4.00	10.00	7.08
37	RESIDENTIAL	CONCRETE	4	18	3+04.63	11.00L	5.28	39.25	39.25	4.00	4.00	6.39
38	RESIDENTIAL	CONCRETE	4	57	6+12.39	11.00L	5.01	70.57	70.57	5.00	3.00	6.43
39	RESIDENTIAL	CONCRETE	4	17	676.92	11.00L	5.13	36.94	36.94	3.00	4.00	6.28
40	RESIDENTAL	CONCRETE	4	7	7+14.34	11+00L	5.13	14.00	14.00	5.00	2.00	7.00
41	RESIDENTIAL	CONCRETE	4	7	7+66.26	11.00L	4.97	13.59	13.59	2.00	5.00	6.86
42	RESIDENTIAL	CONCRETE	4	8	10+72.00	11.00L	5.19	15.40	15.40	5.00	3.00	6.85
43	RESIDENTIAL	CONCRETE	4	8	11+23.89	11.00L	5.40	16.55	16.55	3.00	5.00	6.87
45	RESIDENTIAL	CONCRETE	4	9	2+21.64	34.14R	5.49	20.31	20.31	4.00	4.00	6.09
46	RESIDENTIAL	CONCRETE	4	11	2+63.06	11.00R	5.46	21.22	21.22	4.00	4.00	6.28
47	RESIDENTIAL	CONCRETE	4	10	3+01.41	11.00R	5.02	20.13	20.13	4.00	4.00	6.28
48	RESIDENTAL	CONCRETE	4	10	5+92.30	11.00R	5.07	19.00	19.00	5.00	5.00	6.00
49	RESIDENTIAL	CONCRETE	4	21	9+00.82	11.00R	4.89	46.26	46.26	2.00	5.00	6.87
50	RESIDENTIAL	CONCRETE	4	15	10+67.88	11.00R	5.21	31.58	31.58	5.00	5.00	6.91
			TOTAL AREA:	252								
				NOTE: DRIVEWAY 34 AND DRIVEWAY 44 ARE COMBINED								

KAH ME HA DRIVEWAY SUMMARY

DRIVEWAY	RESIDENTIAL/ COMMERICAL	DRIVEWAY TYPE	DEPTH	DRIVEWAY AREA (SY)	DRIVEWAY CL STATION AT GUTTER	DRIVEWAY CL OFFSET AT GUTTER	GUTTER ELEVATION AT DRIVEWAY CL	EXIST WIDTH	NEW WIDTH	LEFT CURB RADIUS	RIGHT CURB RADIUS	LENGTH L1
96	RESIDENTIAL	CONCRETE	4	16	1+83.62	35.06L	5.93	53.92	53.92	4.00	4.00	7.19
97	RESIDENTIAL	CONCRETE	4	9	2+17.58	35.93L	5.53	19.20	19.20	4.00	4.00	6.26
98	RESIDENTAL	CONCRETE	4	9	2+95.61	11.00L	6.05	28.08	28.08	10.00	10.00	9.27
99	RESIDENTIAL	CONCRETE	4	16	4+23.68	11.00L	6.05	34.83	34.83	5.00	5.00	6.85
100	RESIDENTIAL	CONCRETE	4	53	4+79.91	11.00L	6.09	31.22	31.22	4.00	3.00	6.28
101	RESIDENTIAL	CONCRETE	4	10	1+86.56	37.67R	5.73	22.32	22.32	4.00	4.00	6.10
102	RESIDENTAL	CONCRETE	4	6	2+16.19	36.58R	5.70	13.11	13.11	4.00	3.00	6.41
103	RESIDENTIAL	CONCRETE	4	8	2+43.77	14.54R	6.02	16.40	16.40	4.00	3.00	6.70
104	RESIDENTIAL	CONCRETE	4	15	2+90.80	11.00R	5.90	30.92	30.92	5.00	5.00	6.85
105	RESIDENTIAL	CONCRETE	4	16	3+52.60	11.00R	6.00	32.00	32.00	10.00	5.00	9.27
106	RESIDENTAL	CONCRETE	4	17	4+12.33	11.00R	6.06	34.83	34.83	5.00	5.00	6.85
107	RESIDENTIAL	CONCRETE	4	12	5+21.24	11.00R	5.56	24.00	24.00	4.00	5.00	6.55
			TOTAL AREA:	188								

HAWAII DR DRIVEWAY SUMMARY

DRIVEWAY	RESIDENTIAL/ COMMERICAL	DRIVEWAY TYPE	DEPTH	DRIVEWAY AREA (SY)	DRIVEWAY CL STATION AT GUTTER	DRIVEWAY CL OFFSET AT GUTTER	GUTTER ELEVATION AT DRIVEWAY CL	EXIST WIDTH	NEW WIDTH	LEFT CURB RADIUS	RIGHT CURB RADIUS	LENGTH L1
51	RESIDENTIAL	CONCRETE	4	11	1+89.50	32.63L	4.94	23.39	23.39	4.00	4.00	6.17
52	RESIDENTIAL	CONCRETE	4	15	2+58.53	11.00L	5.12	31.48	31.48	2.00	4.00	6.13
53	RESIDENTAL	CONCRETE	4	19	3+09.69	11.00L	4.89	40.41	40.41	5.00	5.00	7.02
54	RESIDENTIAL	CONCRETE	4	20	3+62.93	11.00L	4.84	43.59	43.59	3.00	3.00	4.79
55	RESIDENTIAL	CONCRETE	4	14	4+88.13	11.00L	5.08	30.00	30.00	4.00	4.00	6.37
56	RESIDENTIAL	CONCRETE	4	5	1+87.67	31.73R	5.15	12.54	12.54	4.00	4.00	6.13
57	RESIDENTAL	CONCRETE	4	22	2+89.80	10.92R	5.14	46.23	46.23	5.00	3.00	6.89
58	RESIDENTIAL	CONCRETE	4	6	4+09.81	10.92R	4.82	12.21	12.21	4.00	4.00	6.28
59	RESIDENTIAL	CONCRETE	4	15	4+71.19	11.00R	5.02	31.90	31.90	4.00	4.00	6.28
60	RESIDENTIAL	CONCRETE	4	17	5+24.34	11.00R	5.29	31.09	31.09	5.00	5.00	7.25
61	RESIDENTAL	CONCRETE	4	17	7+15.23	11.00R	5.71	37.39	37.39	4.00	4.00	6.28
62	RESIDENTIAL	CONCRETE	4	8	7+74.38	11.00R	5.38	15.42	15.42	4.00	4.00	5.45
63	RESIDENTIAL	CONCRETE	4	12	8+35.18	11.00R	5.54	25.95	25.95	4.00	4.00	6.28
64	RESIDENTIAL	CONCRETE	4	17	8+93.44	11.00R	5.78	25.73	25.73	4.00	4.00	6.28
65	RESIDENTAL	CONCRETE	4	7	9+54.87	11.00R	5.69	13.76	13.76	4.00	4.00	6.30
66	RESIDENTIAL	CONCRETE	4	15	9+92.96	29.64R	5.83	25.73	25.73	4.00	4.00	6.28
67	RESIDENTIAL	CONCRETE	4	9	10+18.19	66.69R	5.83	21.54	21.54	4.00	7.00	7.42
68	RESIDENTIAL	CONCRETE	4	12	10+38.44	61.52R	5.71	24.47	24.47	4.00	3.00	6.86
69	RESIDENTIAL	CONCRETE	4	19	10+65.37	24.29R	5.37	38.41	38.41	5.00	9.00	7.69
70	RESIDENTIAL	CONCRETE	4	16	11+34.85	11.00R	5.82	32.18	32.18	3.00	3.00	5.43
71	RESIDENTIAL	CONCRETE	4	13	12+29.16	11.00R	5.76	27.05	27.05	4.00	4.00	4.42
72	RESIDENTIAL	CONCRETE	4	54	13+31.64	11.00R	5.64	11.86	11.86	4.00	4.00	4.15
			TOTAL AREA:	343								

PARADISE DRIVEWAY SUMMARY

DRIVEWAY	RESIDENTIAL/ COMMERICAL	DRIVEWAY TYPE	DEPTH	DRIVEWAY AREA (SY)	DRIVEWAY CL STATION AT GUTTER	DRIVEWAY CL OFFSET AT GUTTER	GUTTER ELEVATION AT DRIVEWAY CL	EXIST WIDTH	NEW WIDTH	LEFT CURB RADIUS	RIGHT CURB RADIUS	LENGTH L1
73	RESIDENTIAL	CONCRETE	4	41	2+57.30	11.00L	5.70	88.21	88.21	10.00	5.00	9.12
74	RESIDENTIAL	CONCRETE	4	23	3+40.23	11.00L	5.21	50.05	50.05	2.00	5.00	6.81
75	RESIDENTAL	CONCRETE	4	20	4+43.34	11.00L	5.00	47.25	40.12	5.00	5.00	7.45
76	RESIDENTIAL	CONCRETE	4	24	6+45.97	11.00L	5.21	52.60	52.60	4.00	4.00	6.29
77	RESIDENTIAL	CONCRETE	4	28	7+50.75	11.00L	5.80	61.78	61.78	3.00	4.00	5.72
78	RESIDENTIAL	CONCRETE	4	11	14+29.98	11.00L	5.61	23.41	23.41	4.00	5.00	5.75
79	RESIDENTAL	CONCRETE	4	6	14+78.04	11.00L	5.94	11.54	11.54	5.00	5.00	6.90
80	RESIDENTIAL	CONCRETE	4	5	15+03.67	11.00L	5.92	10.12	10.12	3.00	5.00	6.61
81	RESIDENTIAL	CONCRETE	4	28	17+69.13	11.00L	6.16	61.02	61.02	4.00	4.00	6.15
82	RESIDENTIAL	CONCRETE	4	18	18+24.32	11.00L	6.15	37.59	37.59	4.00	5.00	5.80
83	RESIDENTAL	CONCRETE	4	35	1+77.30	11.00R	5.66	76.58	76.58	5.00	4.00	6.65
84	RESIDENTIAL	CONCRETE	4	14	2+72.65	11.00R	5.38	30.09	30.09	4.00	4.00	6.19
85	RESIDENTIAL	CONCRETE	4	8	3+61.68	11.00R	5.52	15.07	15.07	5.00	4.00	4.71
86	RESIDENTIAL	CONCRETE	4	16	4+03.07	11.00R	5.36	33.83	33.83	4.00	4.00	6.28
87	RESIDENTAL	CONCRETE	4	18	4+90.05	11.00R	5.47	39.37	39.37	4.00	4.00	6.28
88	RESIDENTIAL	CONCRETE	4	25	5+79.21	11.00R	5.34	53.67	53.67	4.00	4.00	7.84
89	RESIDENTIAL	CONCRETE	4	12	6+41.38	11.00R	5.45	25.82	25.82	4.00	4.00	7.84
90	RESIDENTIAL	CONCRETE	4	17	6+99.68	11.00R	5.36	36.02	36.02	4.00	4.00	7.84
91	RESIDENTIAL	CONCRETE	4	15	7+56.72	11.00R	5.55	31.22	31.22	4.00	4.00	7.84
92	RESIDENTIAL	CONCRETE	4	22	8+74.78	11.00R	5.76	46.17	46.17	4.00	5.00	7.84
93	RESIDENTIAL	CONCRETE	4	18	17+07.07	11.00R	5.84	38.81	38.81	4.00	4.00	7.84
94	RESIDENTIAL	CONCRETE	4	19	17+70.80	11.00R	5.99	38.75	38.75	5.00	5.00	7.84
95	RESIDENTIAL	CONCRETE	4	13	18+32.39	11.00R	5.97	50.23	50.23	3.00	4.00	7.84
			TOTAL AREA:	1563								

SAMPAN DRIVEWAY SUMMARY

DRIVEWAY	RESIDENTIAL/ COMMERICAL	DRIVEWAY TYPE	DEPTH	DRIVEWAYARE A (SY)	DRIVEWAY CL STATION AT GUTTER	DRIVEWAY CL OFFSET AT GUTTER	GUTTER ELEVATION AT DRIVEWAY CL	EXIST WIDTH	NEW WIDTH	LEFT CURB RADIUS	RIGHT CURB RADIUS	LENGTH L1
108	RESIDENTIAL	CONCRETE	4	13	1+83.05	36.39L	6.16	31.77	31.77	4	4	6.07
109	RESIDENTIAL	CONCRETE	4	68	2+94.23	11.00L	6.27	145.24	145.24	3	10	9.29
110	RESIDENTAL	CONCRETE	4	7	1+64.36	1.83R	6.2	19.97	19.97	1	4	6.07
111	RESIDENTIAL	CONCRETE	4	5	1+69.77	18.49R	6.27	11.6	11.6	3	1	5.59
112	RESIDENTIAL	CONCRETE	4	9	1+88.19	32.46R	6.24	20.1	20.1	4	3	6.11
113	RESIDENTIAL	CONCRETE	4	17	2+26.27	20.00R	6.18	39.83	39.83	3	3	5.9
114	RESIDENTAL	CONCRETE	4	18	2+88.46	11.00R	5.91	37.82	37.82	4	4	6.53
115	RESIDENTIAL	CONCRETE	4	8	3+45.74	11.00R	5.46	15.63	15.63	5	5	6.85
			TOTAL AREA:	137								

P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
ENGINEERING THE FUTURE SINCE 1936
10011 Meadowglen Lane
Houston, Texas 77042
EHRAinc.com | 713.784.4500
TBPE No F-726 | TBPLS No 10092300

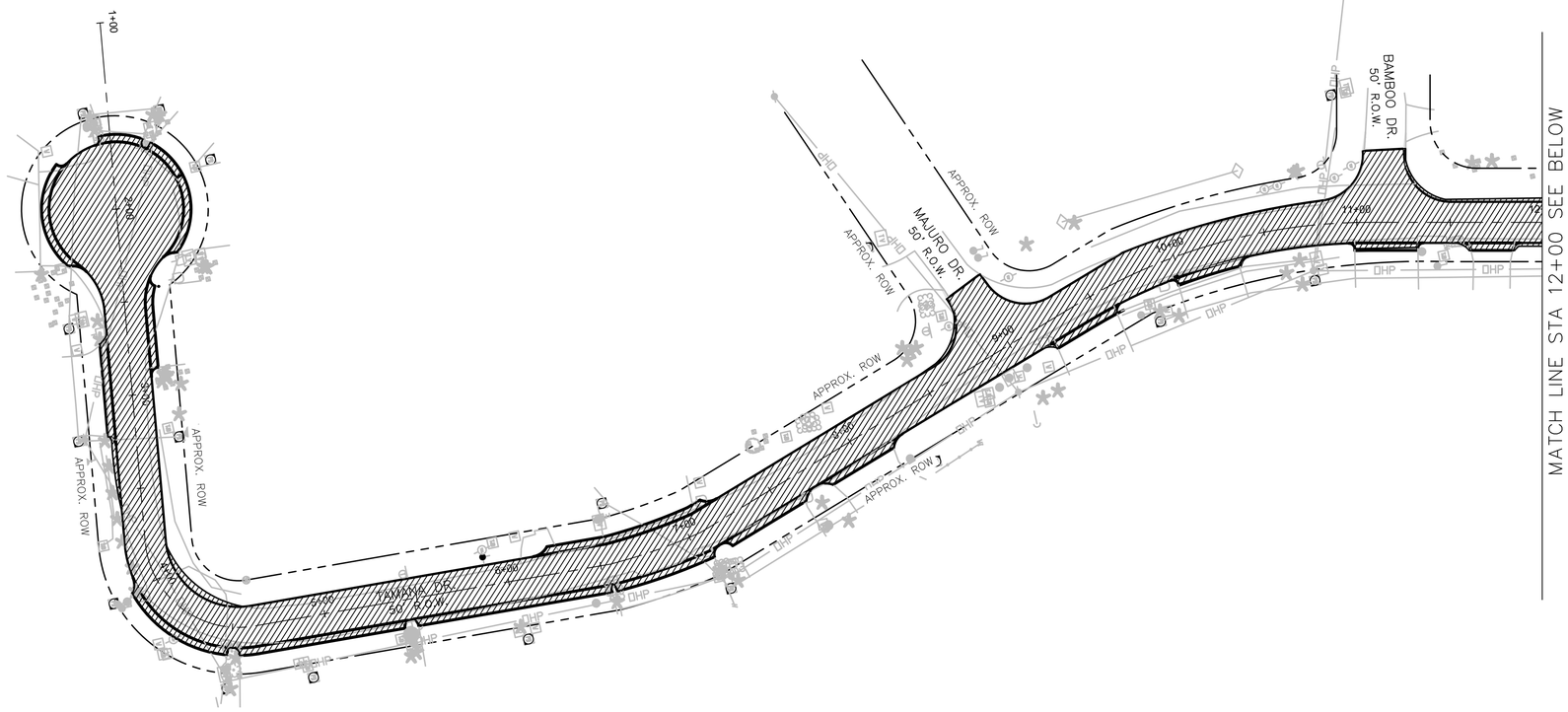
STATE OF TEXAS
JOHN J. IVERY, JR
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

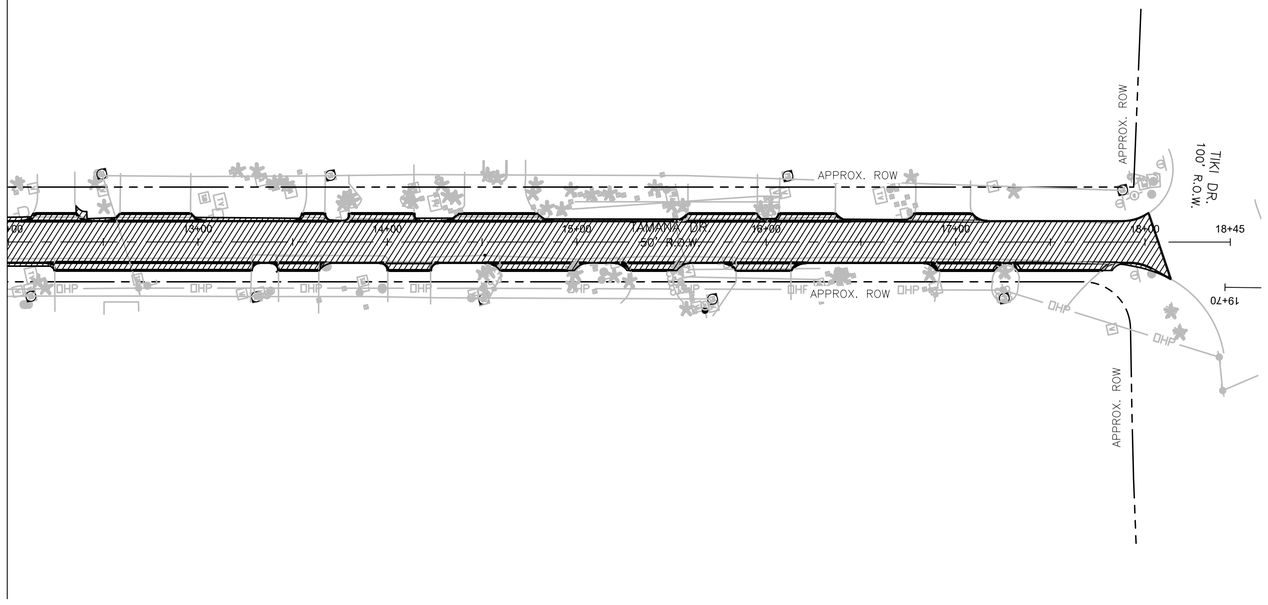
TIKI ISLAND

DRIVEWAY TABLE

SHEET 26
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\09-14 DRIVEWAY SHEETS.dwg Sep 18, 2020-8:31am Edited by: cmuellner





BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 40' 80'
GRAPHIC SCALE 1"=40'

LEGEND

REMOVE EXISTING ASPHALT

NOTE:
RELOCATE AND RESTORE EXISTING MAILBOXES.

0 40' 80'
GRAPHIC SCALE 1"=40'

P-3997

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SCALE: N/A
DATE: 08/26/20

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TIKI ISLAND

DEMO SHEET 1 OF 5

SHEET 27 OF 55

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BENCHMARK

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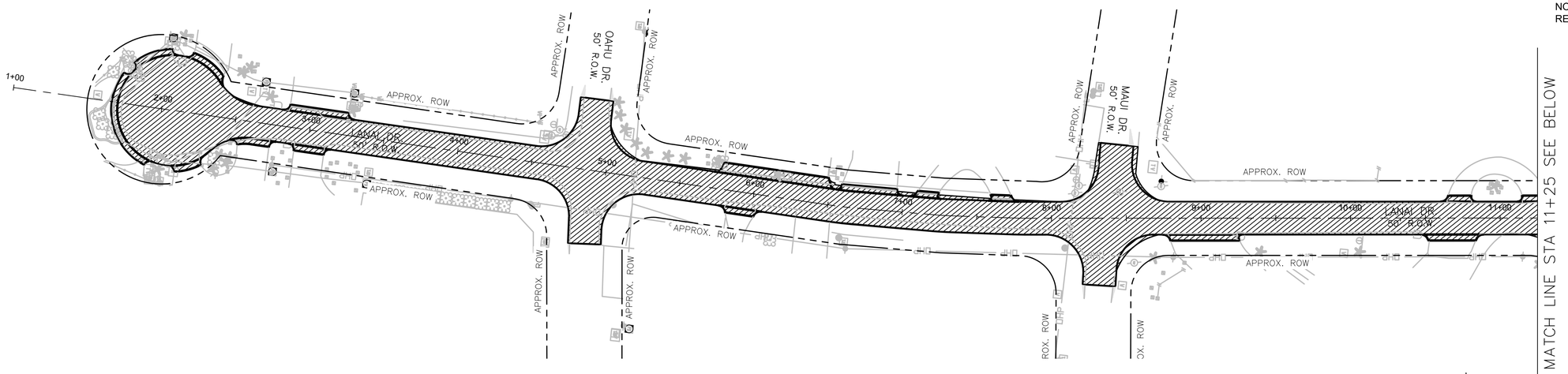
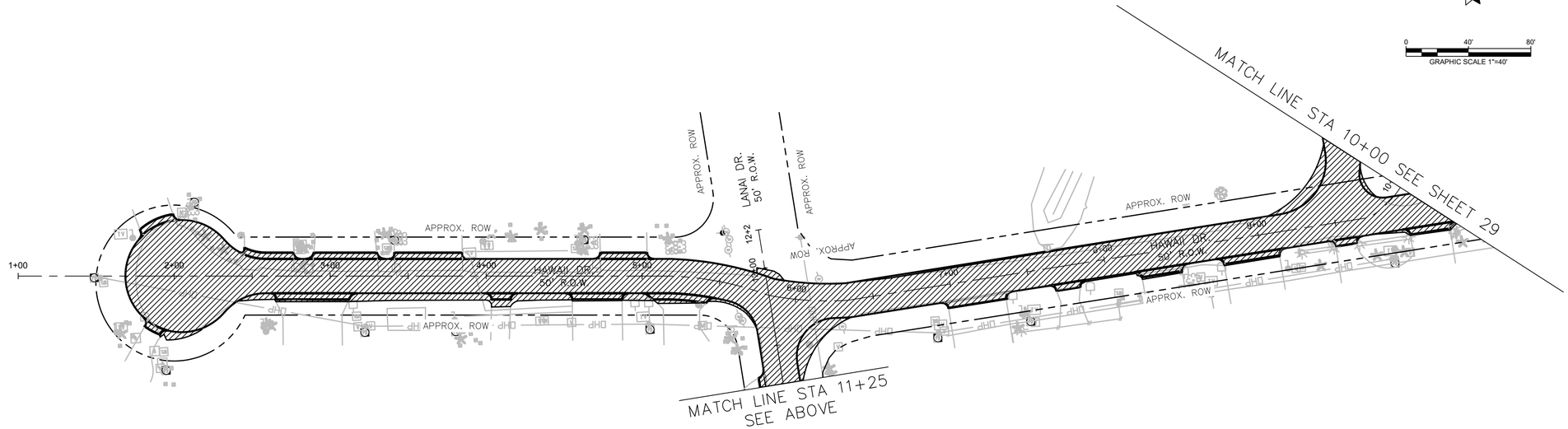
0 40' 80'
GRAPHIC SCALE 1"=40'

LEGEND

REMOVE EXISTING ASPHALT

NOTE:
RELOCATE AND RESTORE EXISTING MAILBOXES.





P-3997

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09/21/2020

TIKI ISLAND

DEMO SHEET 2 OF 5

SHEET 28 OF 55

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BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
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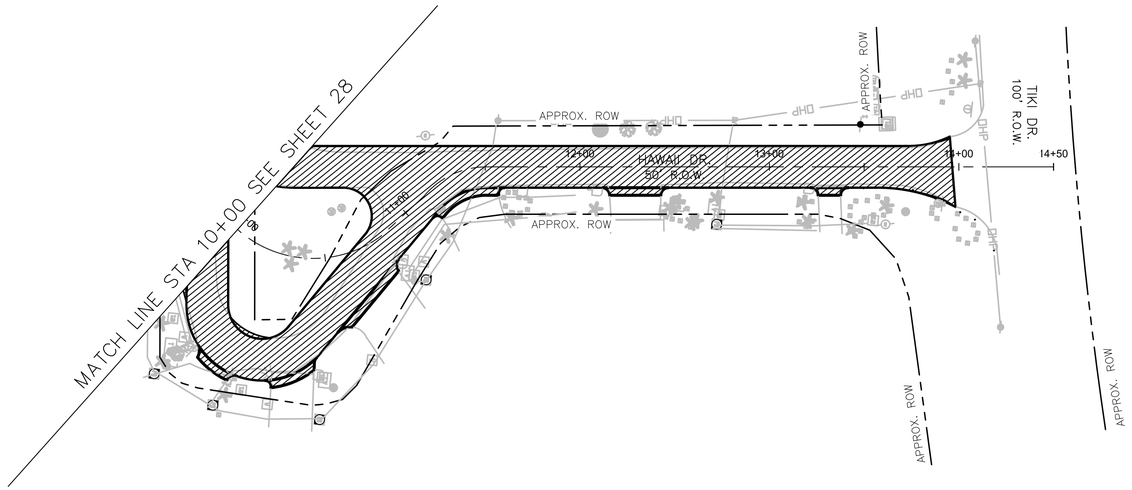
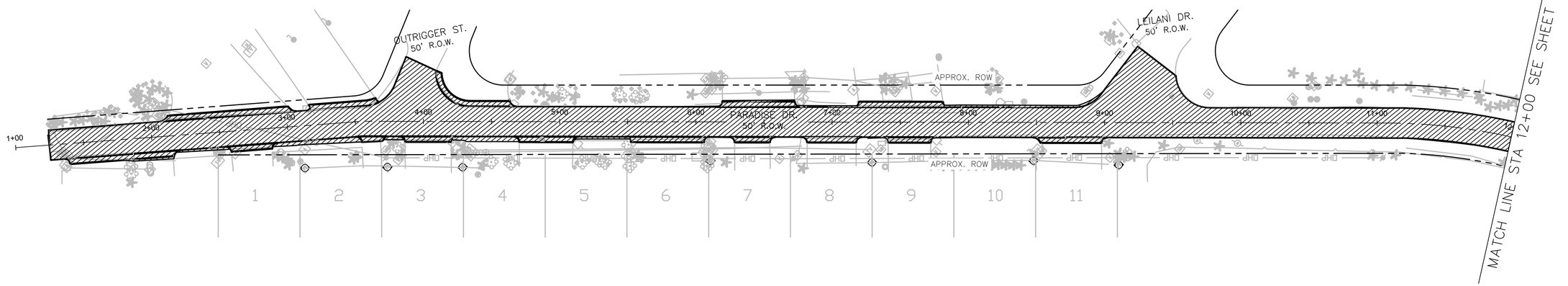


0 40' 80'
GRAPHIC SCALE 1"=40'

LEGEND

REMOVE EXISTING ASPHALT

NOTE:
RELOCATE AND RESTORE
EXISTING MAILBOXES.



0 40' 80'
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P-3997

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TIKI ISLAND

DEMO SHEET 3 OF 5

SHEET 29 OF 55

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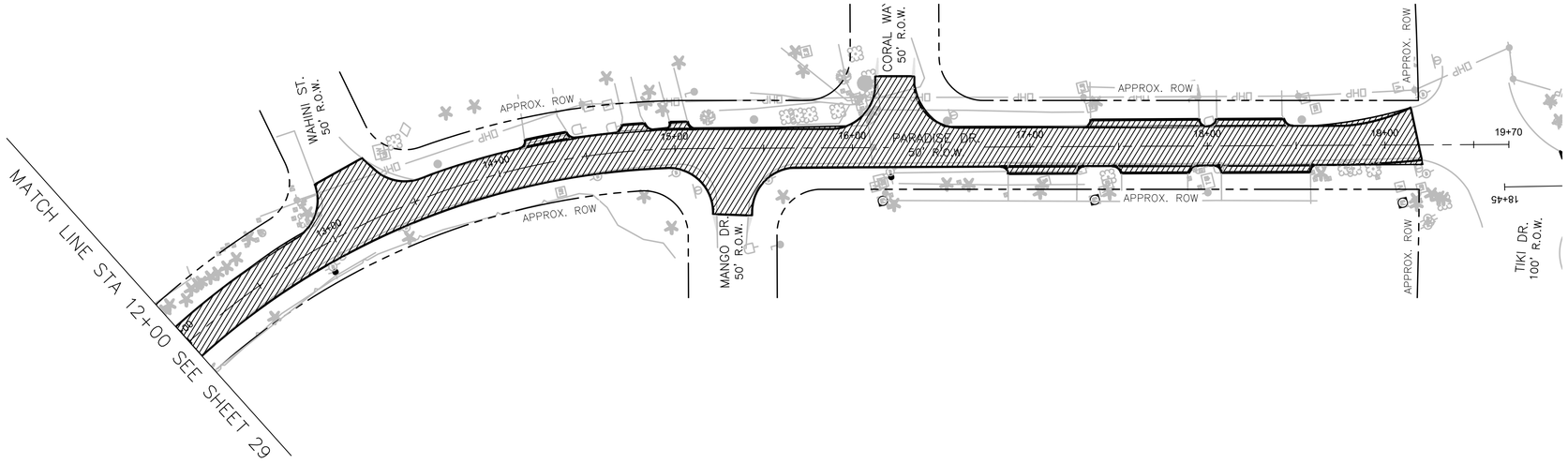

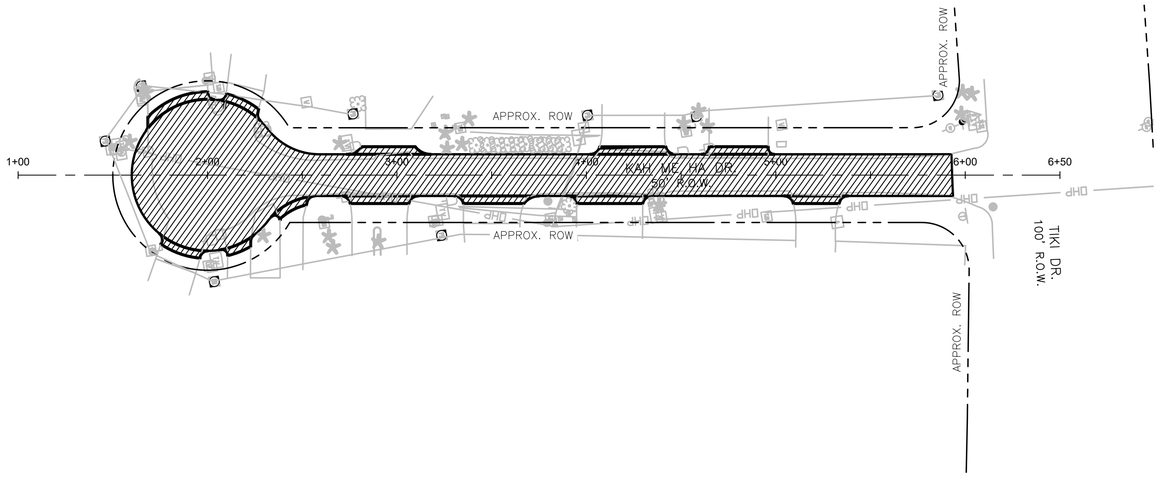

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. DD9997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 40' 80'
GRAPHIC SCALE 1"=40'

LEGEND

REMOVE EXISTING ASPHALT

NOTE:
RELOCATE AND RESTORE
EXISTING MAILBOXES.

0 40' 80'
GRAPHIC SCALE 1"=40'

P-3997

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DATE: 08/26/20

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09/21/2020

TIKI ISLAND

DEMO SHEET 4 OF 5

SHEET 30 OF 55

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BENCHMARK

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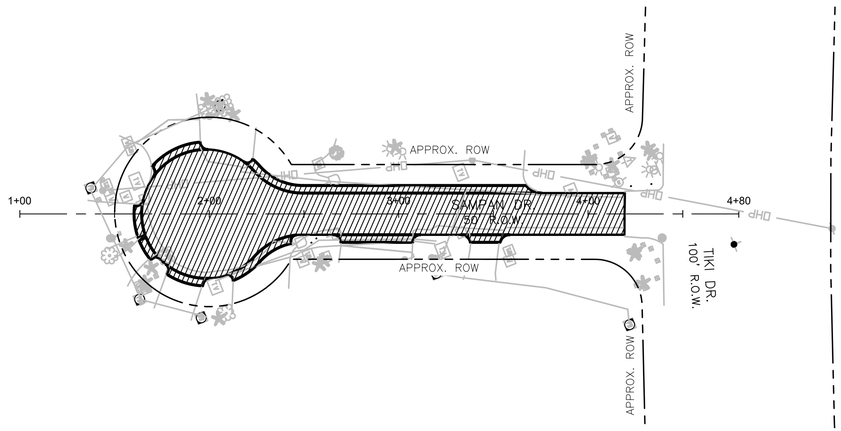
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 40' 80'
GRAPHIC SCALE 1"=40'

LEGEND

REMOVE EXISTING ASPHALT

NOTE:
RELOCATE AND RESTORE
EXISTING MAILBOXES.



P-3997

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GALVESTON COUNTY
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09/21/2020

TIKI ISLAND

DEMO SHEET 5 OF 5

SHEET 31 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\15-19 DEMO SHEETS.dwg Sep 18, 2020-8:32am Edited by: cmueliner

LEGEND

- PULL BOX
- CABLE TV BOX
- WATER METER
- SANITARY CLEANOUT
- MAILBOX
- WOODEN FENCE
- VEGETATION
- TELEPHONE JUNCTION BOX
- WATER VALVE
- POWER POLE
- BUSH
- PILLAR
- SPRINKLER VALVE
- PHONE LINE MARKER
- TRAFFIC SIGN
- FLUSHING VALVE
- WATER SPIGOT
- MANHOLE
- WOOD POST
- LIGHT
- CATCH BASIN
- VEGETATION
- FENCE CORNER
- SERVICE POLE
- ELECTRICAL JUNCTION BOX
- OVERHEAD WIRE
- POST
- METAL POST
- WROUGHT IRON FENCE
- CHAIN LINK FENCE

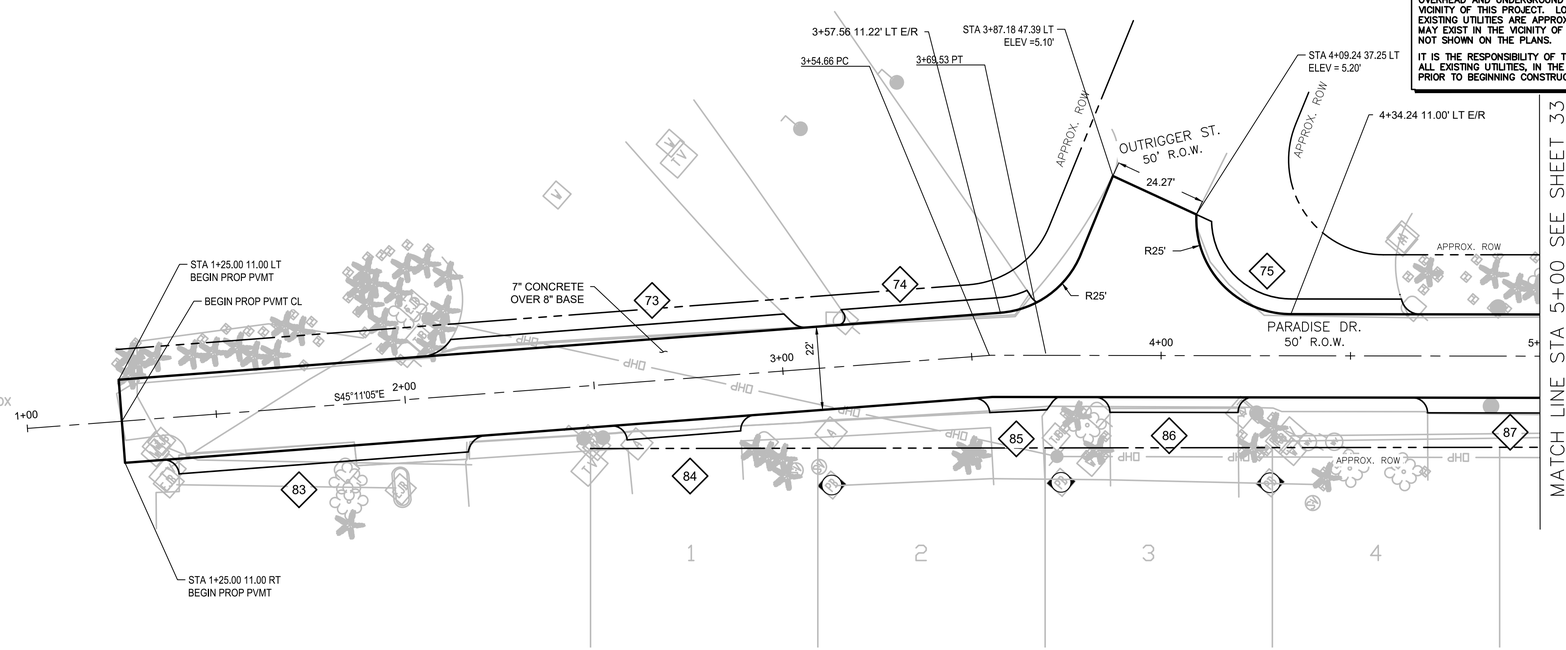
WARNING

OVERHEAD AND UNDERGROUND UTILITIES MAY EXIST IN THE VICINITY OF THIS PROJECT. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST IN THE VICINITY OF THE PROJECT WHICH ARE NOT SHOWN ON THE PLANS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, IN THE VICINITY OF THE PROJECT, PRIOR TO BEGINNING CONSTRUCTION.

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

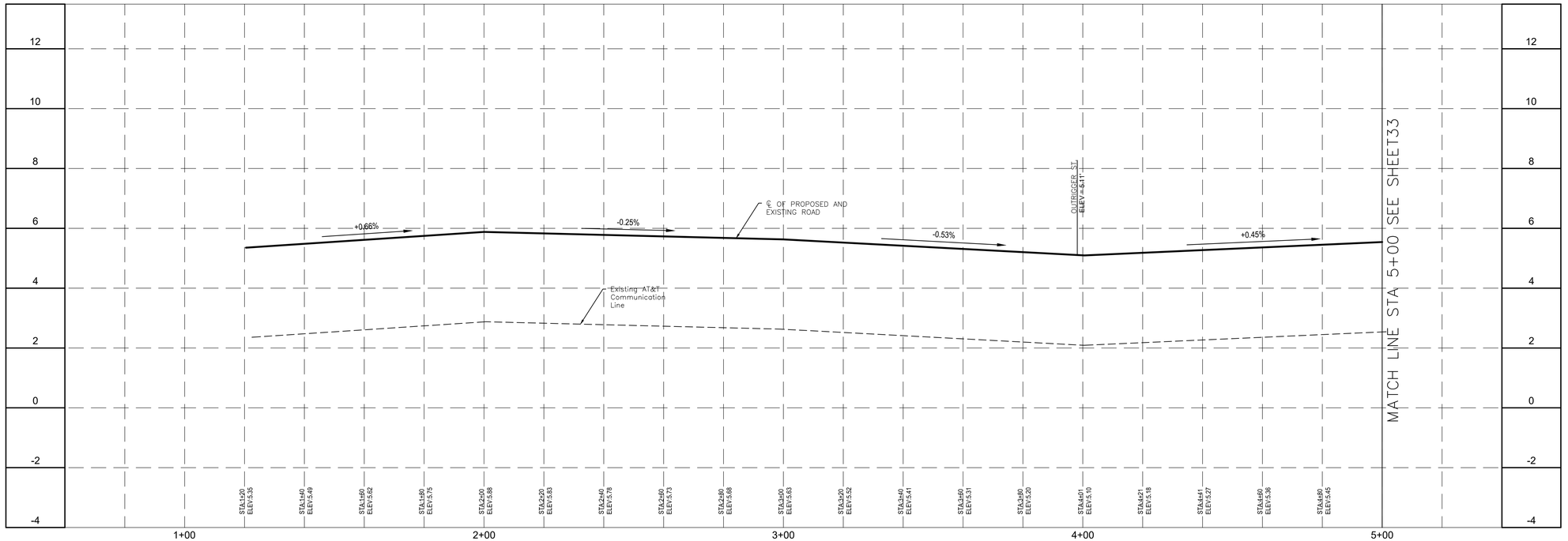


0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

LEGEND

75 DRIVEWAY NUMBERS



P-3997

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DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

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TBPE No F-726 | TBPLS No 10092300

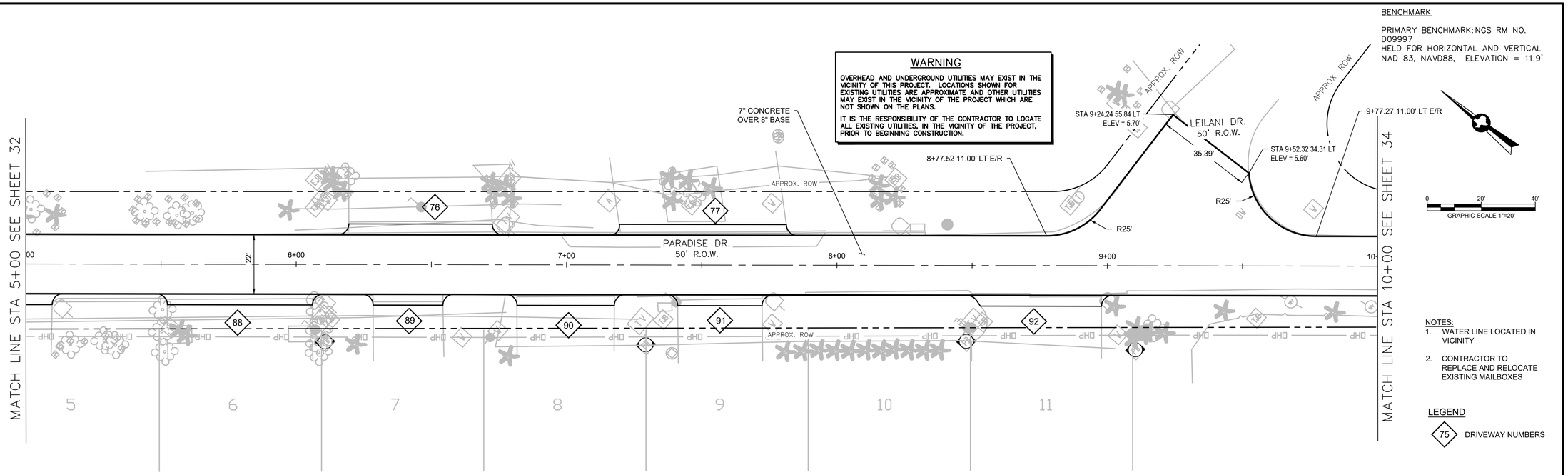
STATE OF TEXAS
JOHN J. IVERY, JR
91002
PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

PARADISE DR BEGIN TO 5+00
PLAN AND PROFILE

SHEET 32 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\30-33 PARADISE DR PLAN & PROFILE.dwg Sep 18, 2020-8:32am Edited by: cmuellner



P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
ENGINEERING THE FUTURE SINCE 1936
10011 Meadowglen Lane
Houston, Texas 77042
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TBPE No F-726 | TBPLS No 10092300

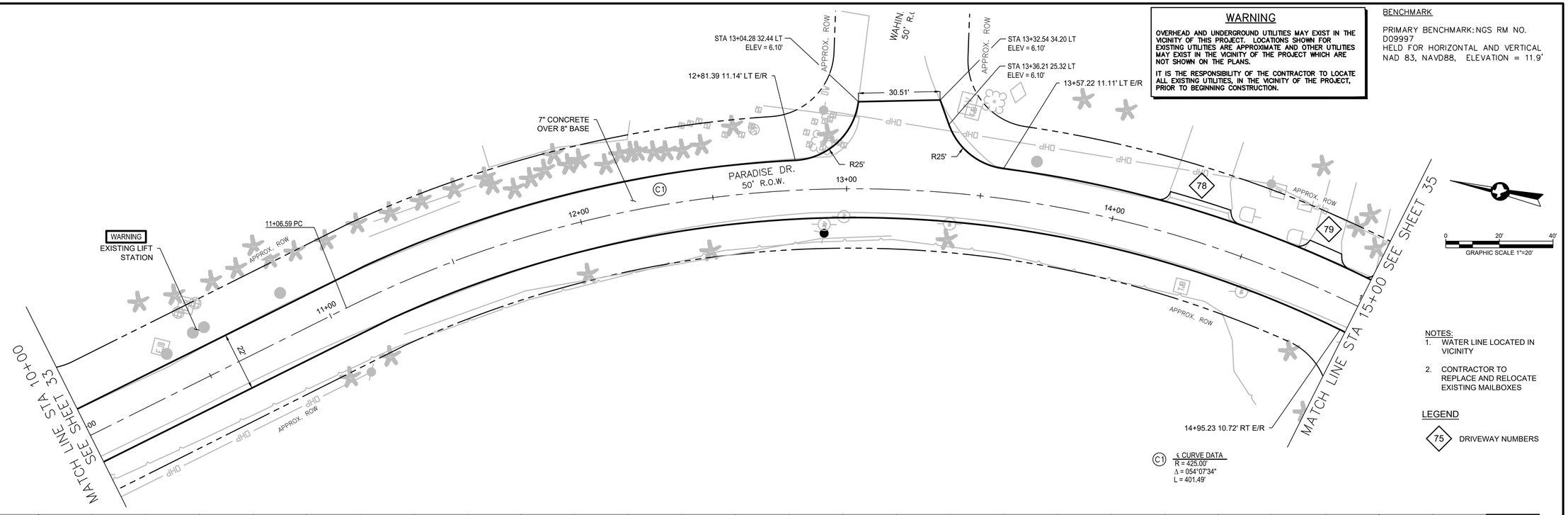
STATE OF TEXAS
JOHN J. IVERY, JR
91002
PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

PARADISE DR 5+00 TO 10+00
PLAN AND PROFILE

SHEET 33
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\30-33 PARADISE DR PLAN & PROFILE.dwg Sep 18, 2020-8:32am Edited by: cmuellner



WARNING

OVERHEAD AND UNDERGROUND UTILITIES MAY EXIST IN THE VICINITY OF THIS PROJECT. LOCATIONS SHOWN FOR EXISTING UTILITIES ARE APPROXIMATE AND OTHER UTILITIES MAY EXIST IN THE VICINITY OF THE PROJECT WHICH ARE NOT SHOWN ON THE PLANS.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ALL EXISTING UTILITIES, IN THE VICINITY OF THE PROJECT, PRIOR TO BEGINNING CONSTRUCTION.

BENCHMARK

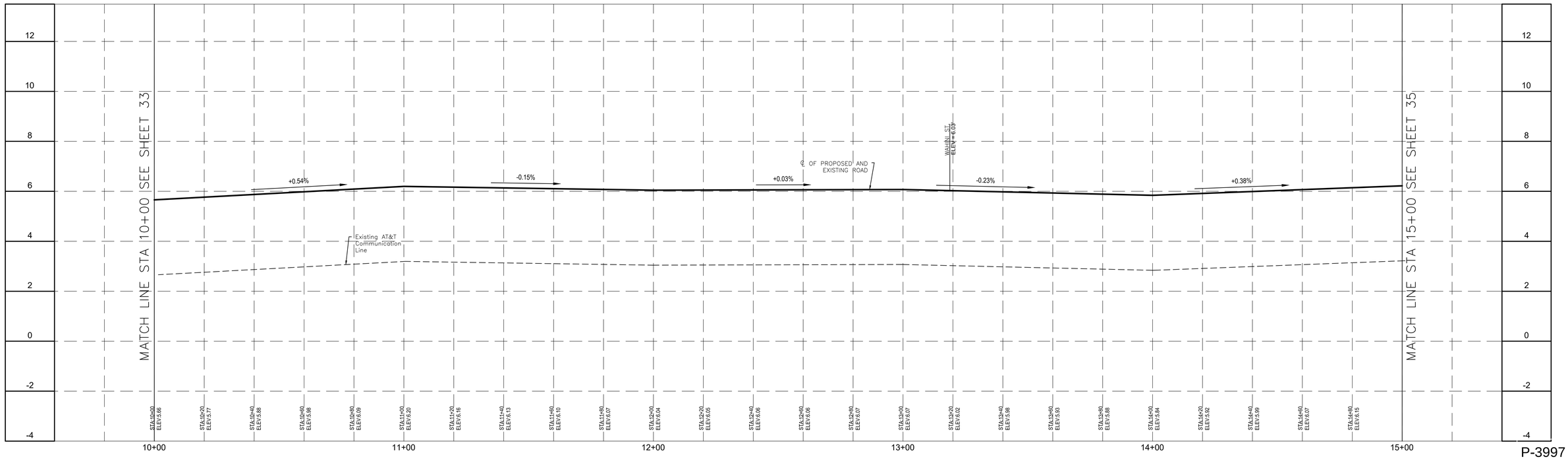
PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

LEGEND

75 DRIVEWAY NUMBERS

C1 ℄ CURVE DATA
R = 425.00'
Δ = 054°07'34"
L = 401.49'



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91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

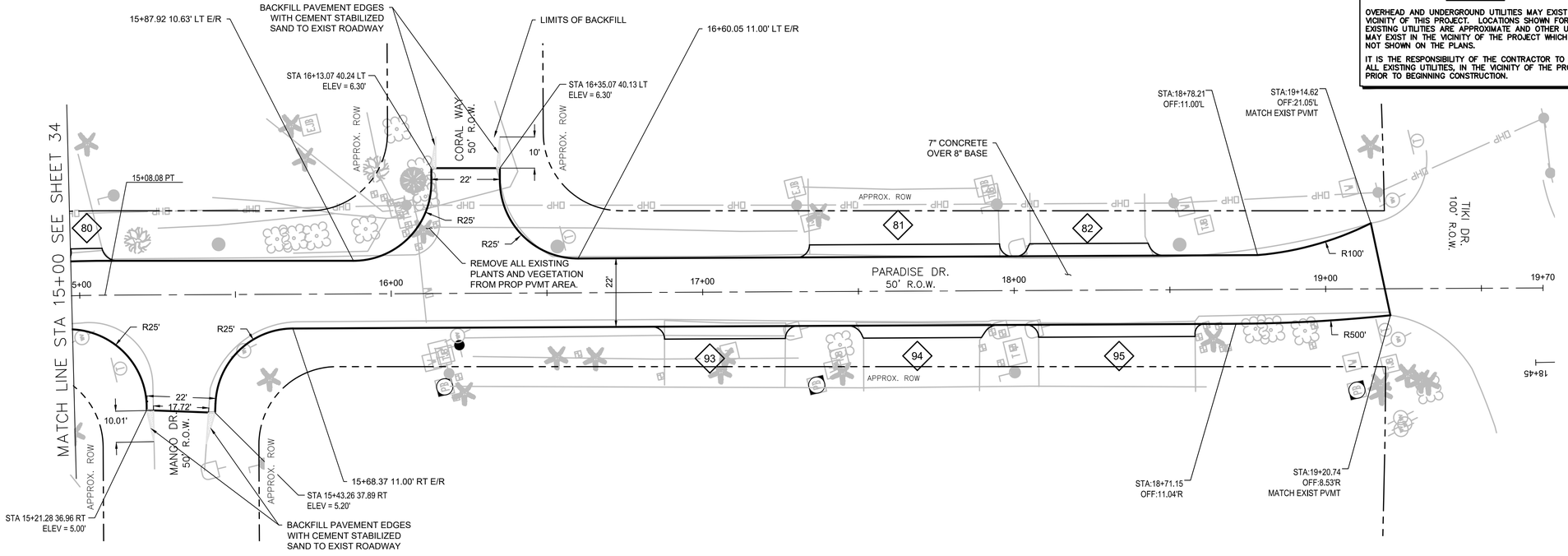
TIKI ISLAND

PARADISE DR 10+00 TO 15+00
PLAN AND PROFILE

SHEET 34 OF 55

P-3997

P:\181-062-00\Drawings_TIKI ISLAND\30-33 PARADISE DR PLAN & PROFILE.dwg Sep 18, 2020-8:33am Edited by: cmuellner



WARNING

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BENCHMARK

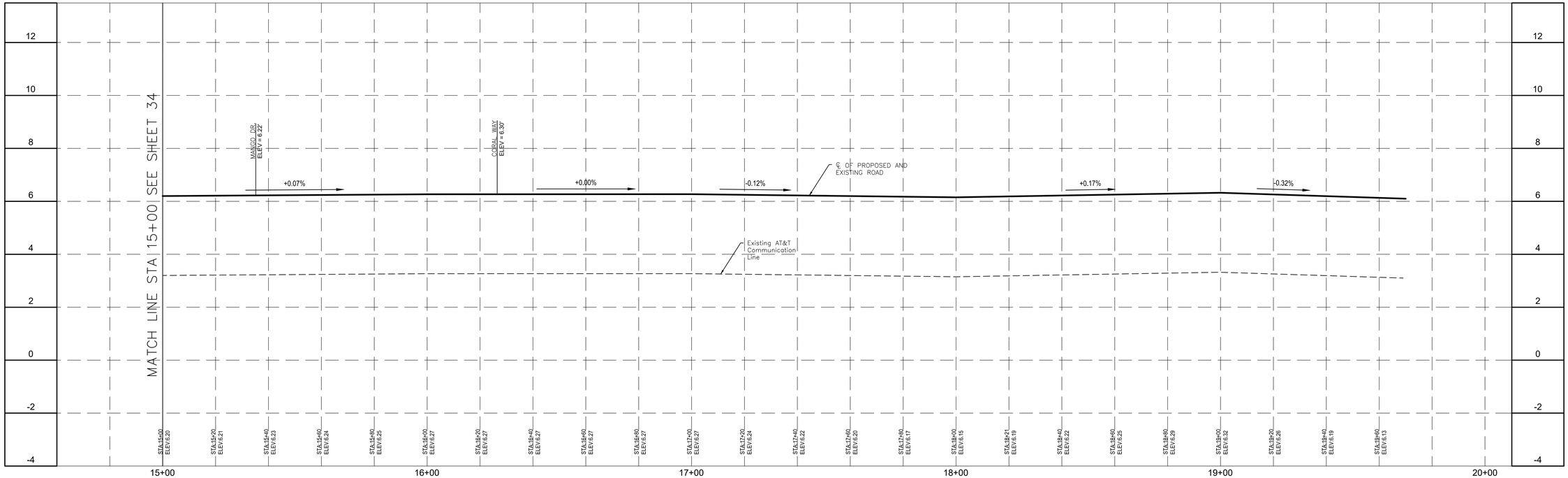
PRIMARY BENCHMARK: NGS RM NO. DD9997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

LEGEND

75 DRIVEWAY NUMBERS



P-3997

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09/21/2020

TIKI ISLAND

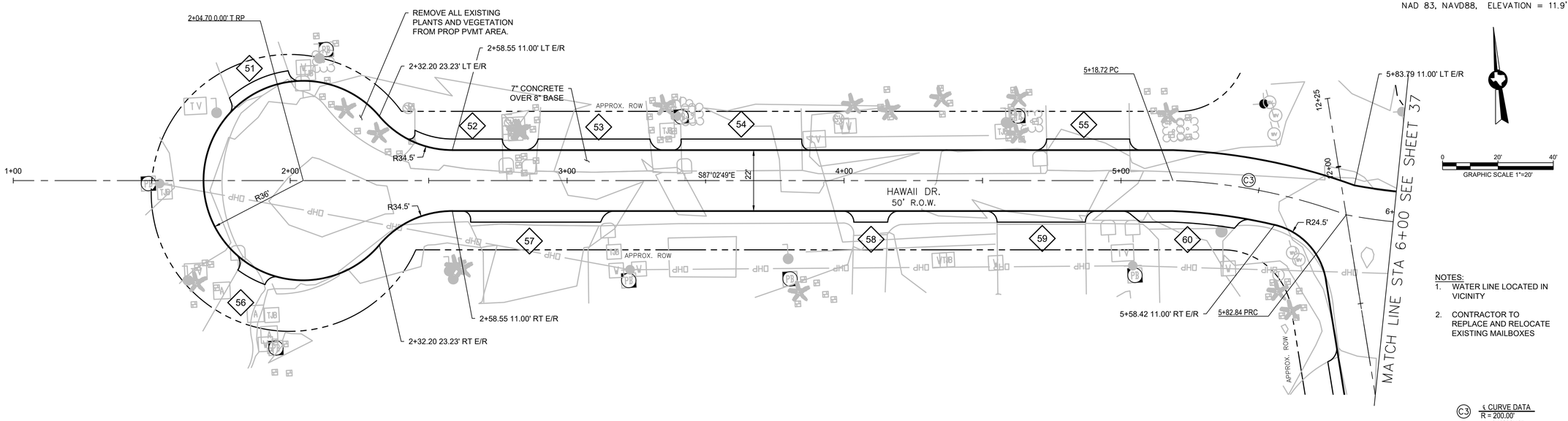
PARADISE DR 15+00 TO END
PLAN AND PROFILE

SHEET 35 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\30-33 PARADISE DR PLAN & PROFILE.dwg Sep 18, 2020-8:33am Edited by: cmuellner

BENCHMARK

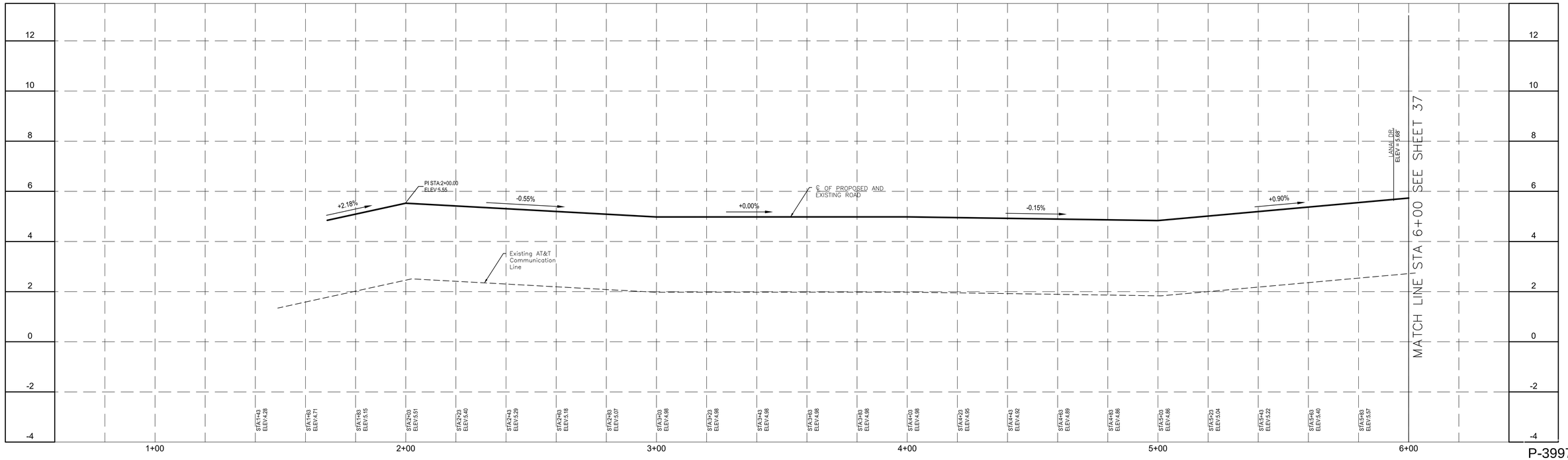
PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'



0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

C3 ℄ CURVE DATA
R = 200.00'
Δ = 018°22'13"
L = 64.12'



P-3997

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GALVESTON COUNTY
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09/21/2020

TIKI ISLAND

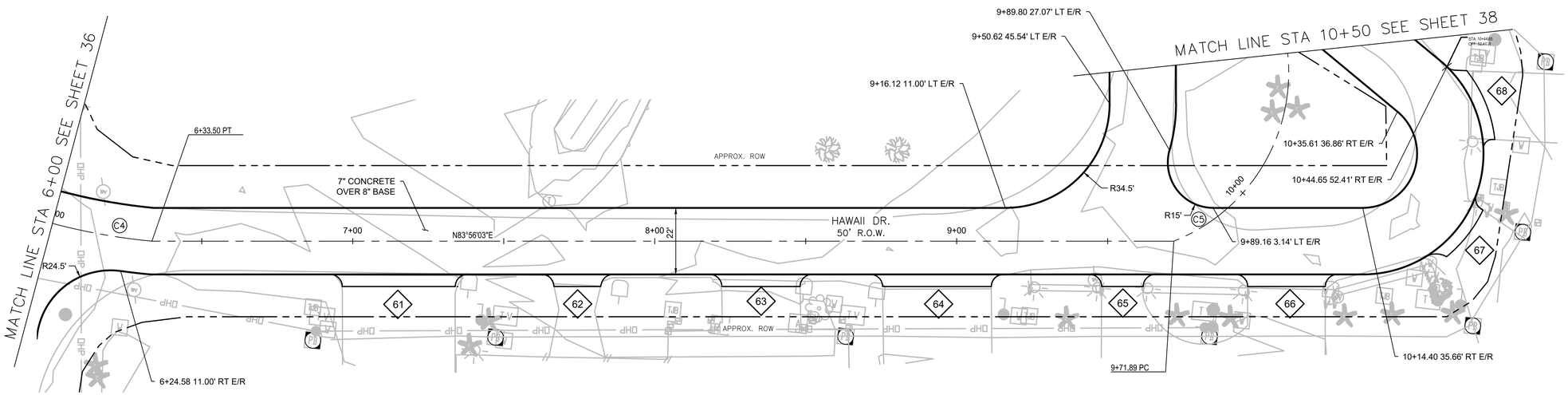
HAWAII DR BEGIN TO 6+00 PLAN AND PROFILE

SHEET 36
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\27-29 HAWAII DR PLAN & PROFILE.dwg Sep 18, 2020 - 8:33am Edited by: cmuellner

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

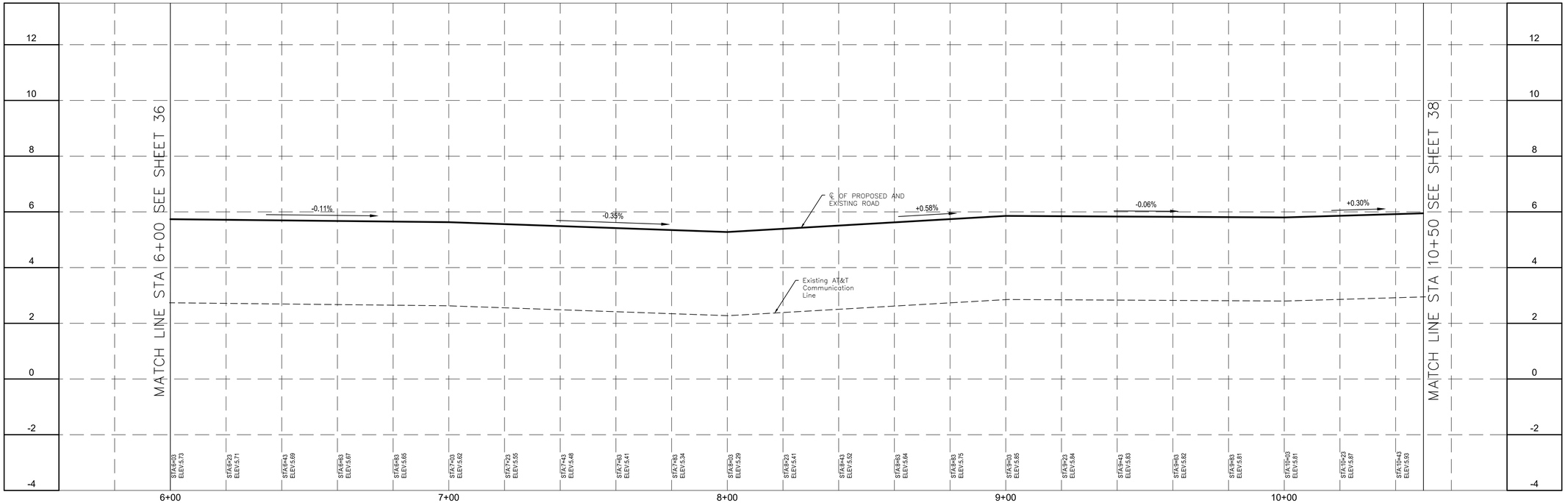


0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

C4 ℄ CURVE DATA
R = 200.00'
Δ = 014°30'49"
L = 50.66'

C5 ℄ CURVE DATA
R = 60.00'
Δ = 105°29'59"
L = 110.48'



P-3997

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SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
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09/21/2020

TIKI ISLAND

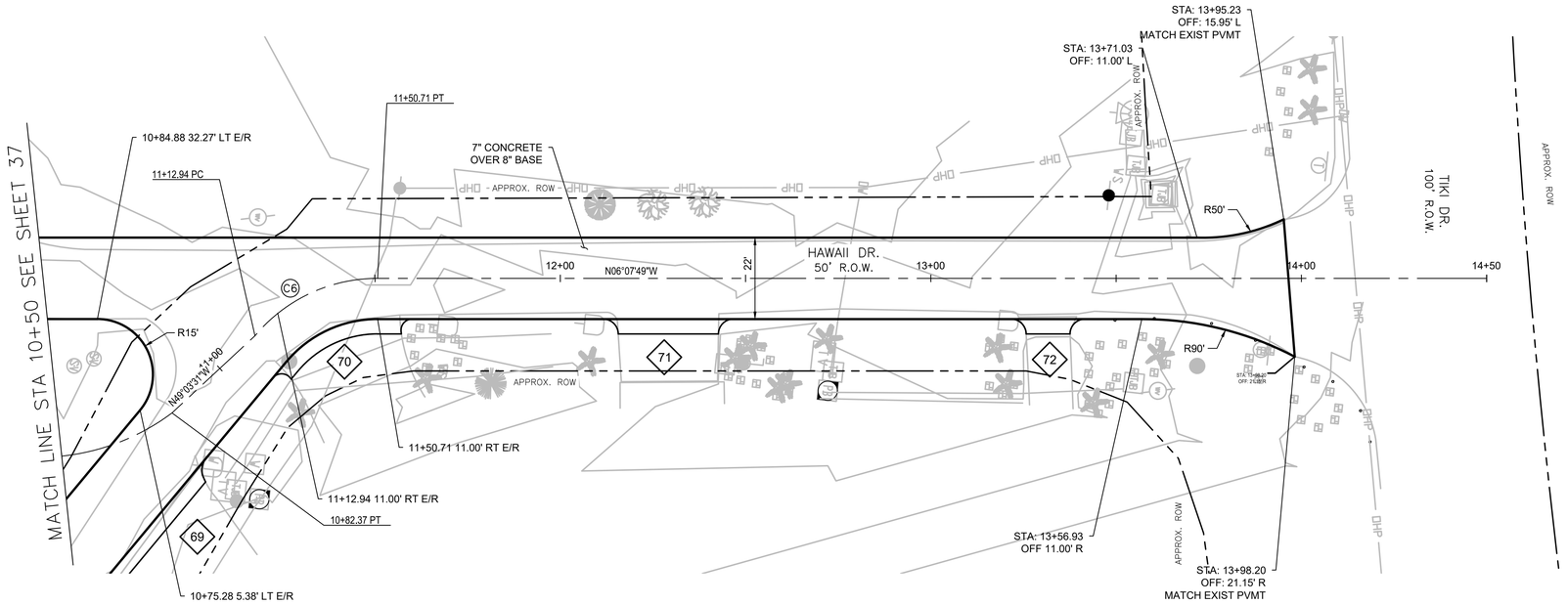
HAWAII DR 6+00 TO 10+50 PLAN AND PROFILE

SHEET 37 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\27-29 HAWAII DR PLAN & PROFILE.dwg Sep 18, 2020 - 8:33am Edited by: cmuellner

BENCHMARK

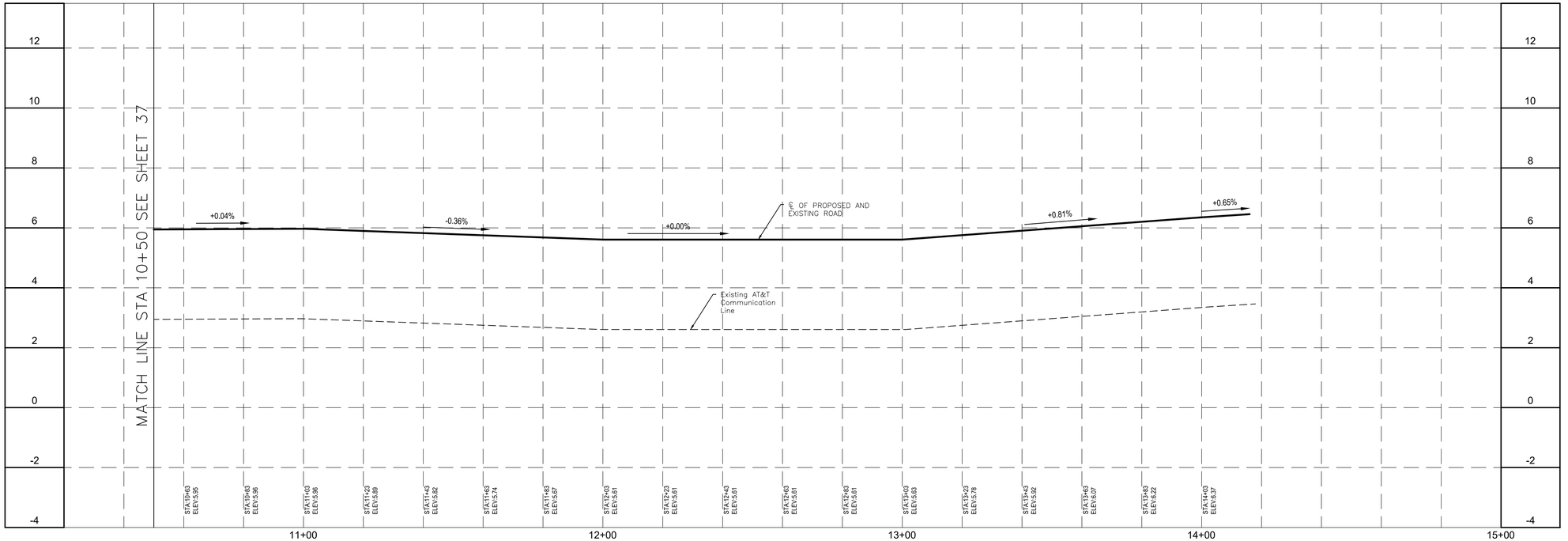
PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'



0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES
3. PLACE PROJECT SIGN APPROXIMATELY 500 FT EAST OF HAWAII DRIVE AT THE NORTHWEST CORNER OF THE BORA BORA AND TIKI DRIVE INTERSECTION WITHIN THE STREET RIGHT OF WAY. SEE SHEET 55 OF 55 FOR PROJECT SIGN DETAILS.

C6 — ℄ CURVE DATA
R = 43.00'
Δ = 050°19'19"
L = 37.77'



P-3997

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SCALE: N/A
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GALVESTON COUNTY
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09/21/2020

TIKI ISLAND

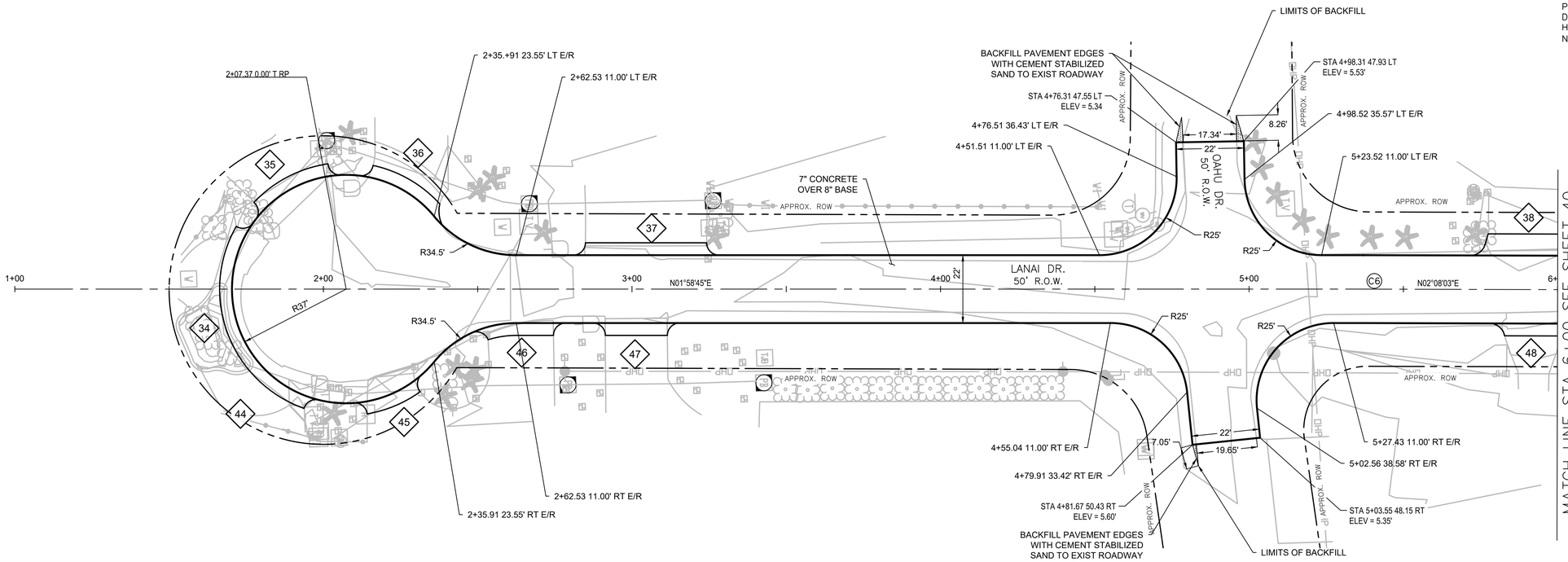
HAWAII DR 10+50 TO END PLAN AND PROFILE

SHEET 38 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\27-29 HAWAII DR PLAN & PROFILE.dwg Sep 18, 2020-8:33am Edited by: cmuellner

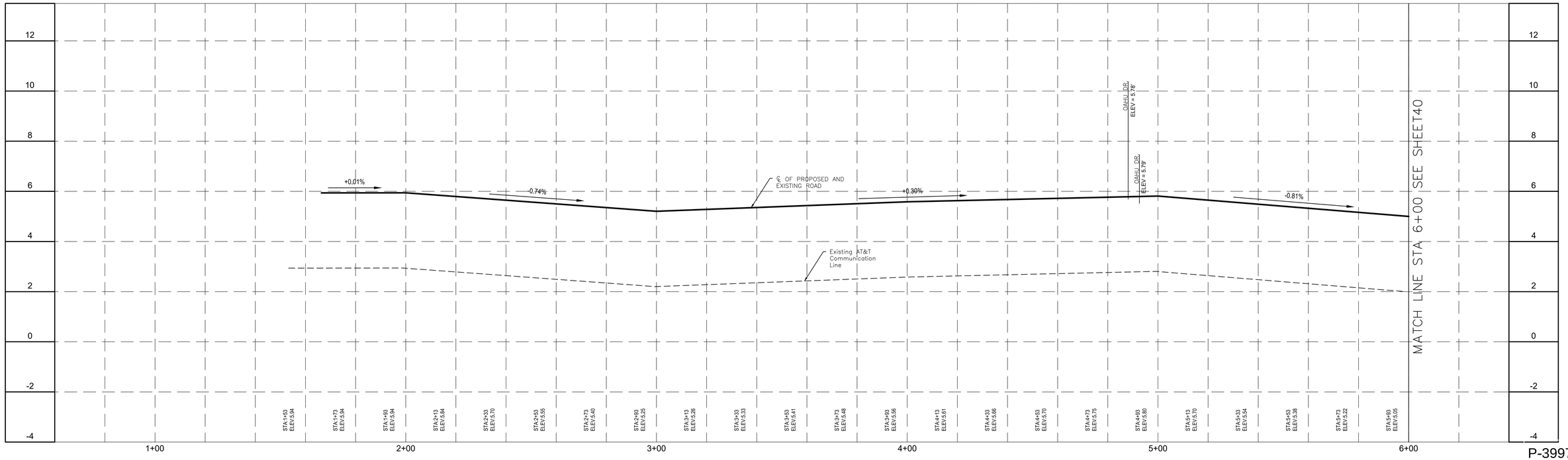
BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'



NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

(C6) ℄ CURVE DATA
R = 200.00'
Δ = 000°09'19"
L = 0.54'



P-3997

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STATE OF TEXAS
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09/21/2020

TIKI ISLAND

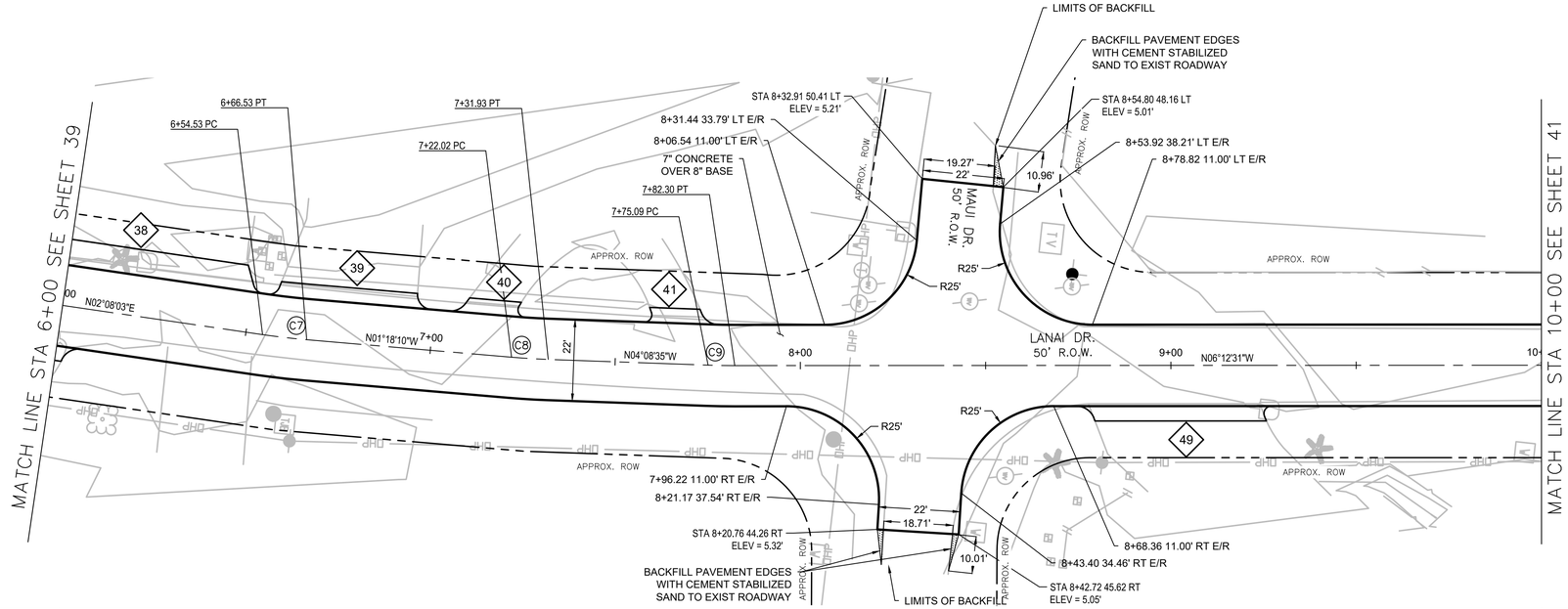
LANAI DR BEGIN TO 6+00 PLAN AND PROFILE

SHEET 39 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\24-26 LANAI DR PLAN & PROFILE.dwg Sep 18, 2020-8:34am Edited by: cmuellner

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'



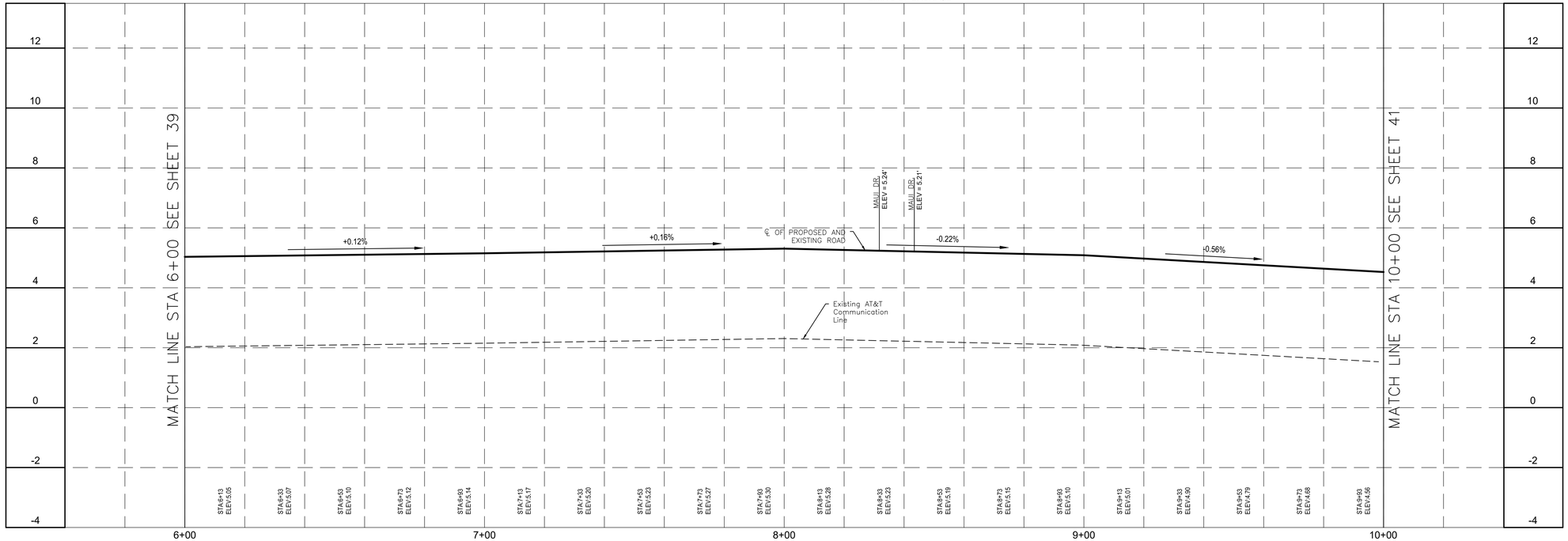
0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

(C7) ℄ CURVE DATA
R = 200.00'
Δ = 003°26'13"
L = 12.00'

(C8) ℄ CURVE DATA
R = 200.00'
Δ = 002°50'25"
L = 9.91'

(C9) ℄ CURVE DATA
R = 200.00'
Δ = 002°03'56"
L = 7.21'



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09/21/2020

TIKI ISLAND

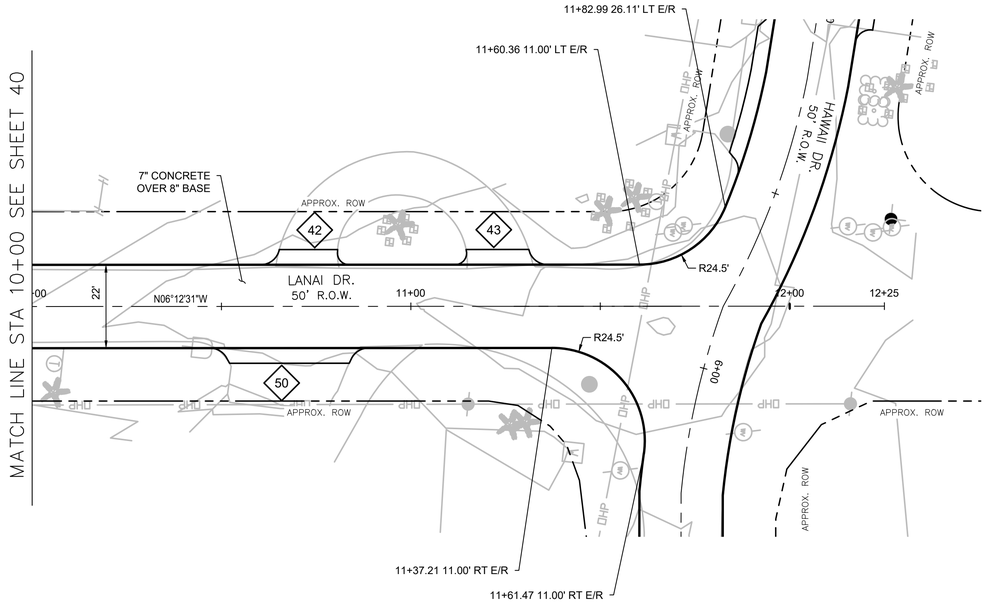
LANAI DR 6+00 TO 10+00 PLAN AND PROFILE

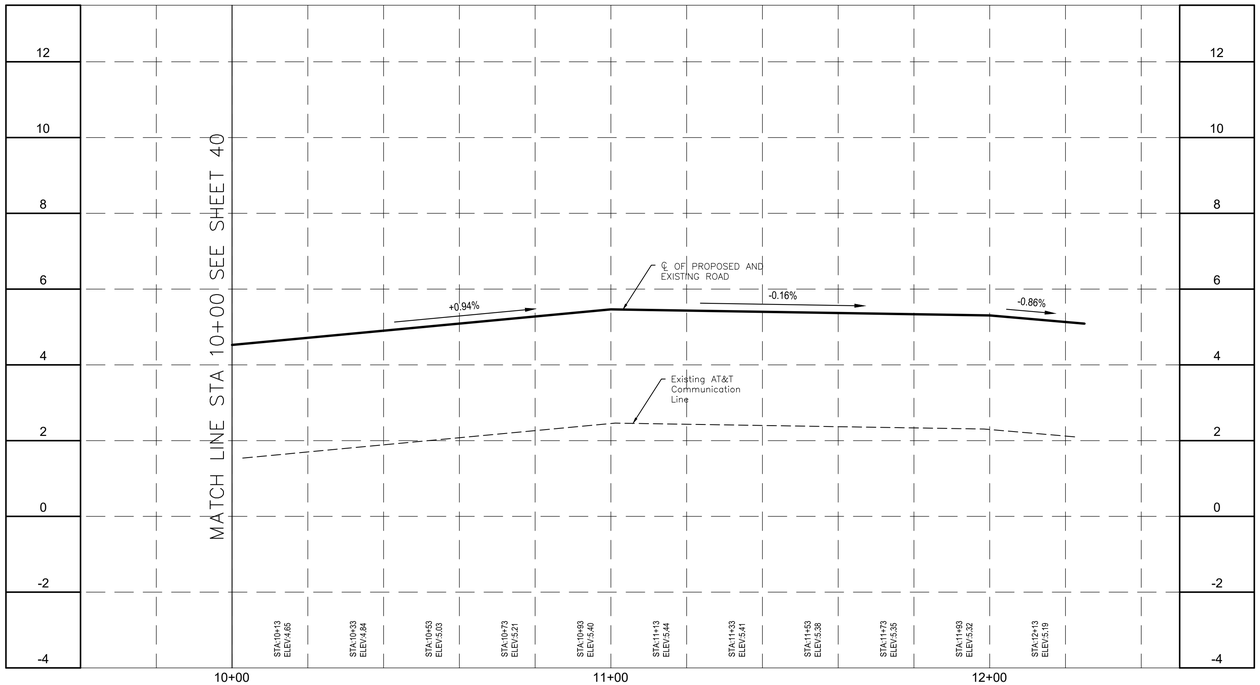
SHEET 40 OF 55

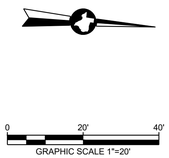
P:\181-062-00\Drawings_TIKI ISLAND\24-26 LANAI DR PLAN & PROFILE.dwg Sep 18, 2020-8:34am Edited by: cmuellner

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'







NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

P-3997

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09/21/2020

TIKI ISLAND

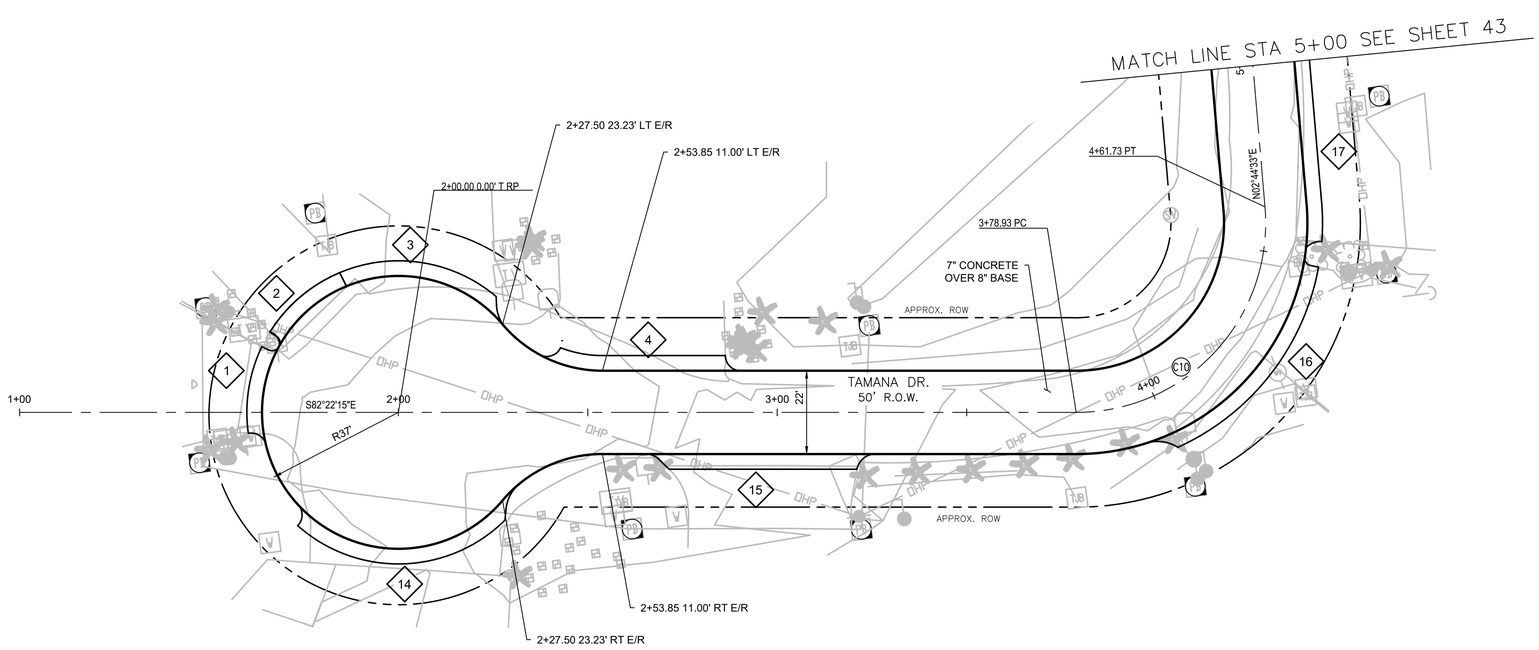
LANAI DR 10+00 TO END PLAN AND PROFILE

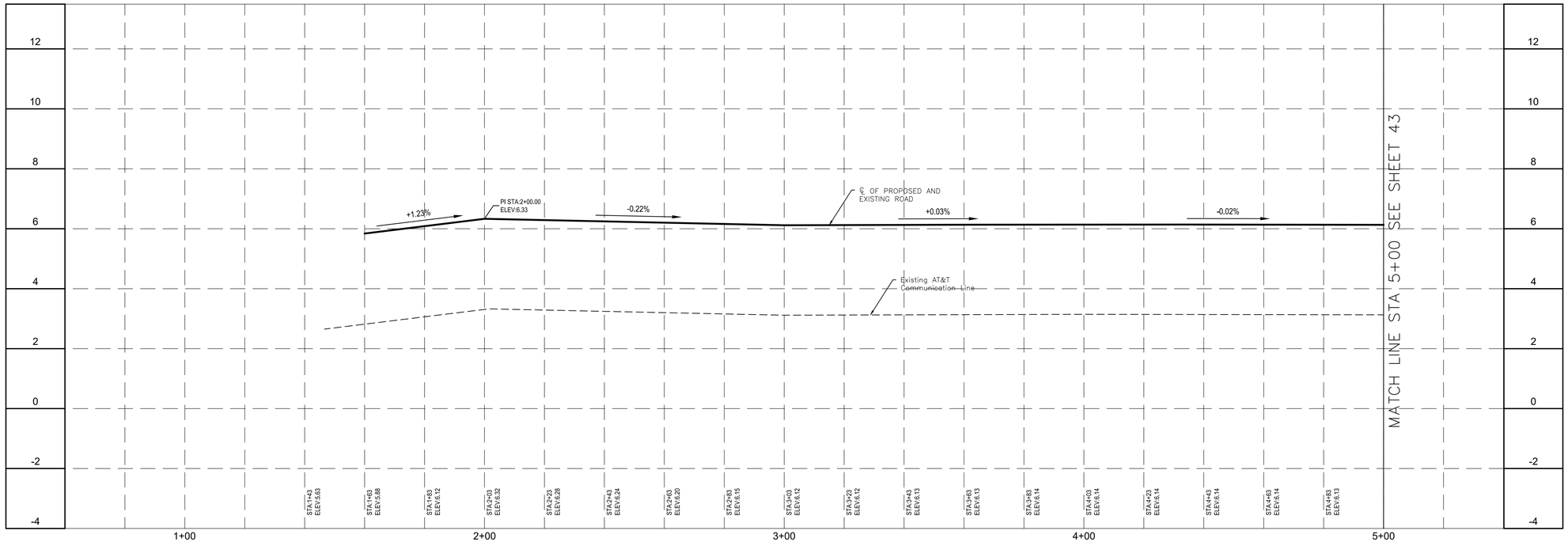
SHEET 41
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\24-26 LANAI DR PLAN & PROFILE.dwg Sep 18, 2020-8:34am Edited by: cmuellner

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'





NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

LEGEND

75 DRIVEWAY NUMBERS

C10 ℄ CURVE DATA
R = 50.00'
Δ = 094°53'12"
L = 82.80'

0 20' 40'
GRAPHIC SCALE 1"=20'

P-3997

NO.	REVISIONS	DATE	NAME

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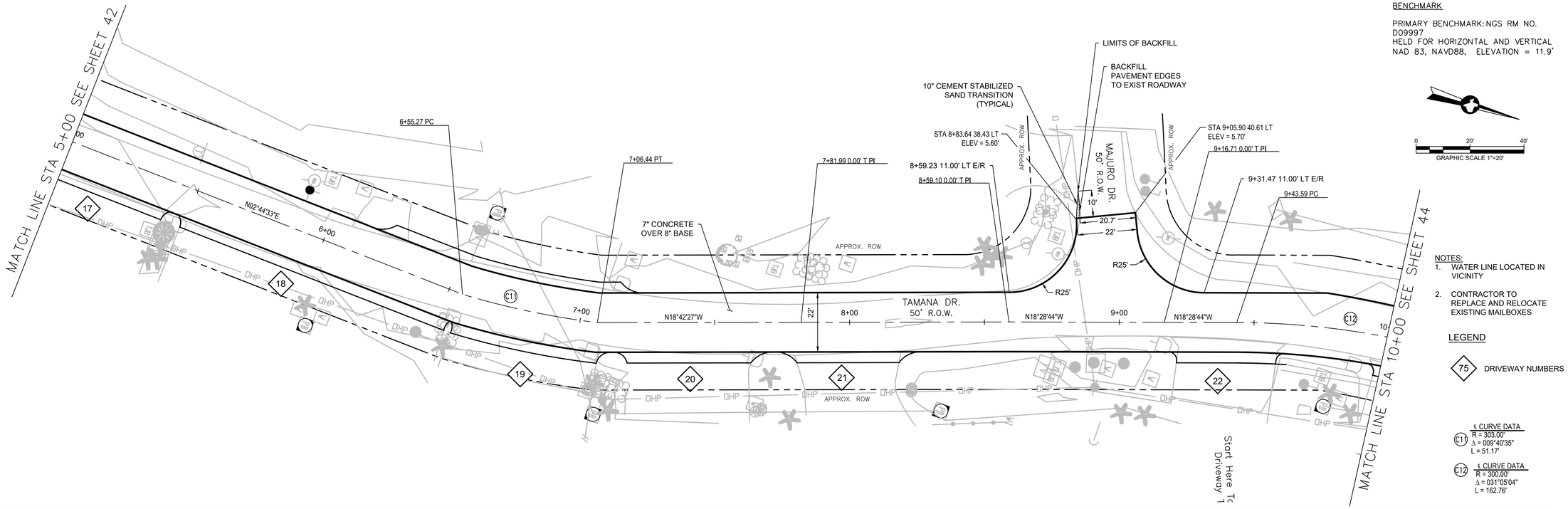
09/21/2020

TIKI ISLAND

TAMANA DR BEGIN TO 5+00
PLAN AND PROFILE

SHEET 42
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\20-23 TAMANA DR PLAN & PROFILE.dwg Sep 18, 2020-8:34am Edited by: cmuellner



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DATE: 08/26/20

GALVESTON COUNTY
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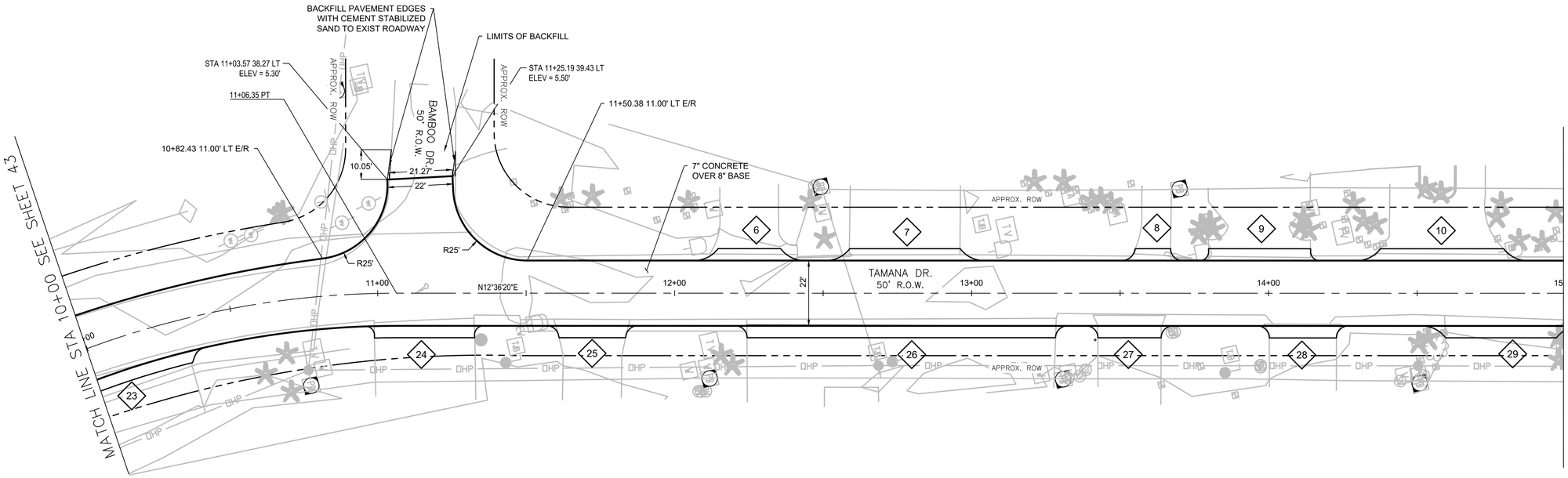
09/21/2020

TIKI ISLAND

TAMANA DR 5+00 TO 10+00 PLAN AND PROFILE

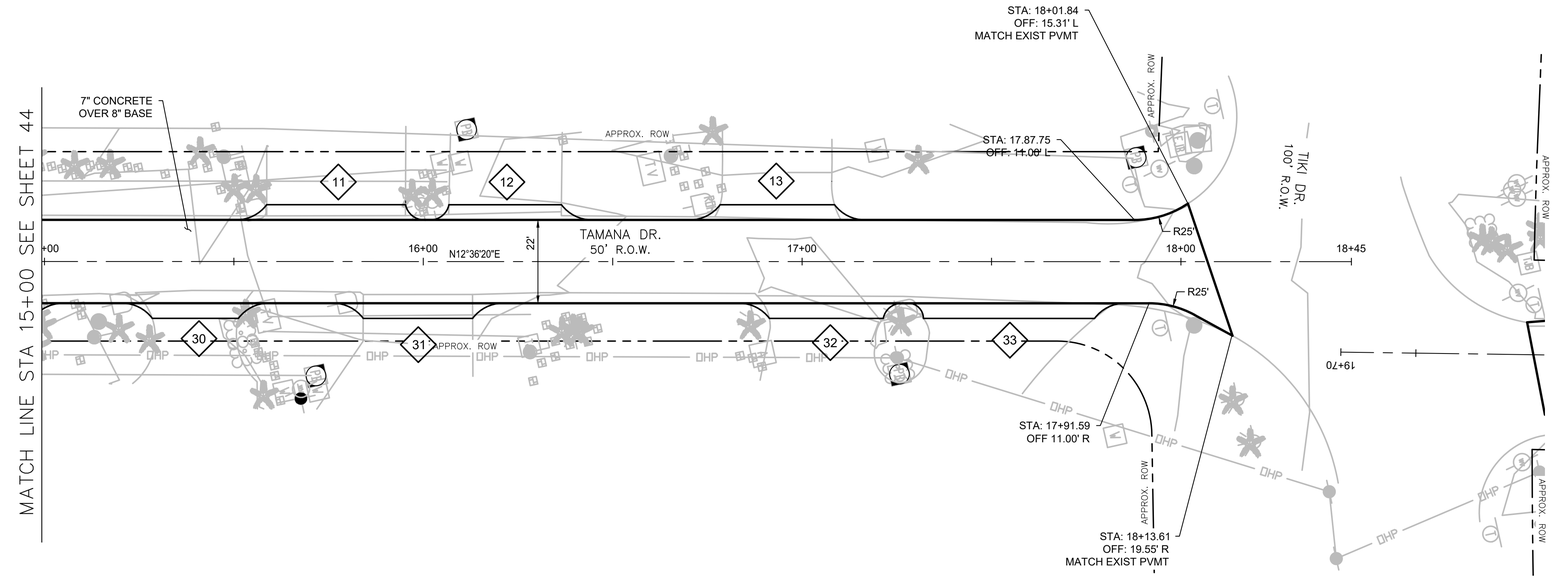
SHEET 43 OF 55

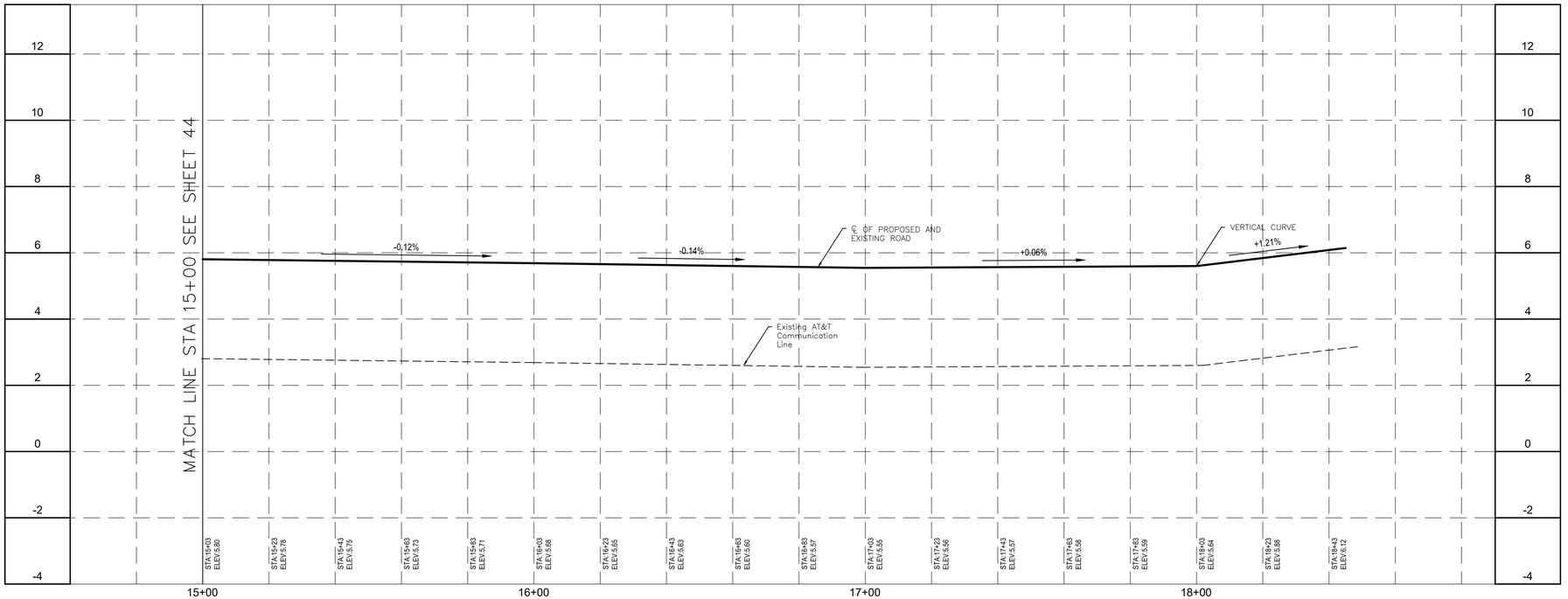
P:\181-062-00\Drawings_TIKI ISLAND\20-23 TAMANA DR PLAN & PROFILE.dwg Sep 18, 2020-8:35am Edited by: cmuellner


BACKFILL PAVEMENT EDGES WITH CEMENT STABILIZED SAND TO EXIST ROADWAY
LIMITS OF BACKFILL
STA 11+03.57 38.27 LT
ELEV = 5.30'
11+06.35 PT
STA 11+25.19 39.43 LT
ELEV = 5.50'
11+50.38 11.00' LT E/R
10+82.43 11.00' LT E/R
BAMBOO DR.
50' R.O.W.
APPROX. ROW
10.05'
21.27'
22'
7" CONCRETE OVER 8" BASE
R25'
R25'
APPROX. ROW
TAMANA DR.
50' R.O.W.
22'
N12°36'20"E
11+00
12+00
13+00
14+00
15
MATCH LINE STA 10+00 SEE SHEET 43
MATCH LINE STA 15+00 SEE SHEET 45
23
24
25
26
27
28
29
6
7
8
9
10
APPROX. ROW
APPROX. ROW
OHP
TEL
TEL
TEL

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'





GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

LEGEND

75 DRIVEWAY NUMBERS

P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
ENGINEERING THE FUTURE SINCE 1936
10011 Meadowglen Lane
Houston, Texas 77042
EHRAinc.com | 713.784.4500
TBPE No F-726 | TBPLS No 10092300

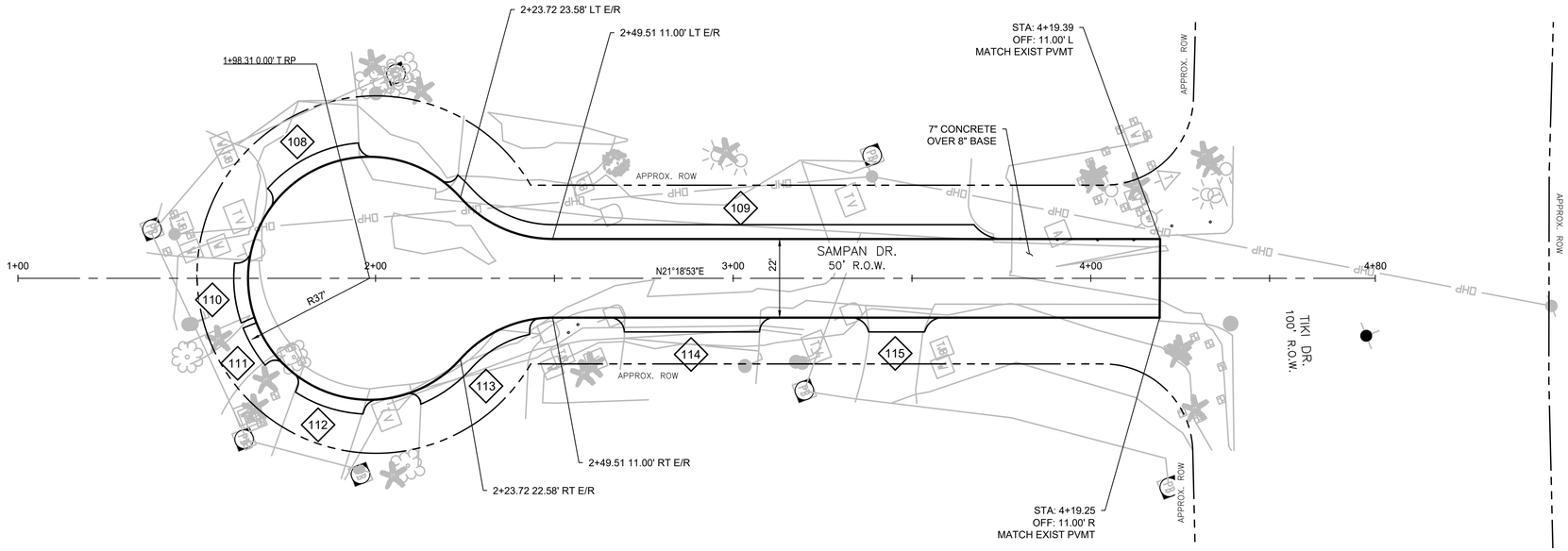
STATE OF TEXAS
JOHN J. IVERY, JR
91002
PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

TAMANA DR 15+00 TO END PLAN AND PROFILE

SHEET 45
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\20-23 TAMANA DR PLAN & PROFILE.dwg Sep 18, 2020-8:35am Edited by: cmuellner



BENCHMARK

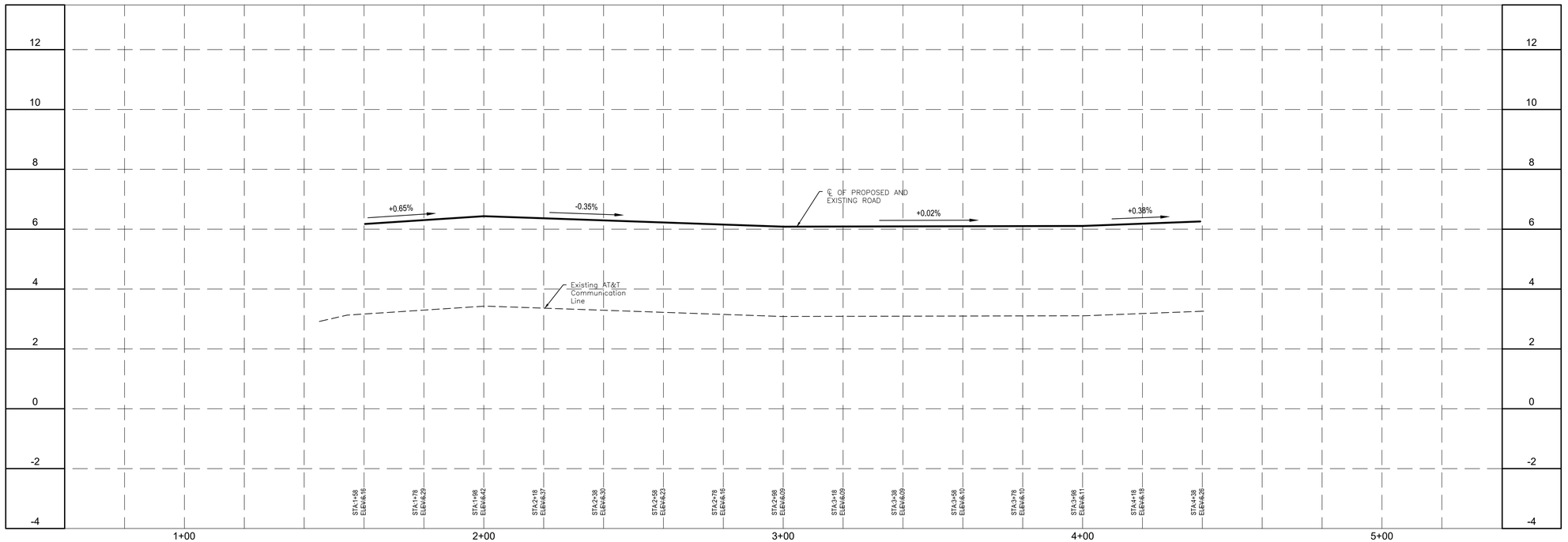
PRIMARY BENCHMARK: NGS RM NO. D09997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 20' 40'
GRAPHIC SCALE 1"=20'

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES

LEGEND

75 DRIVEWAY NUMBERS



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09/21/2020

TIKI ISLAND

SAMPAN DR BEGIN TO END PLAN AND PROFILE

SHEET 46
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\35 SAMPAN DR PLAN & PROFILE.dwg Sep 18, 2020 - 8:35am Edited by: cmuellner

BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. D09997
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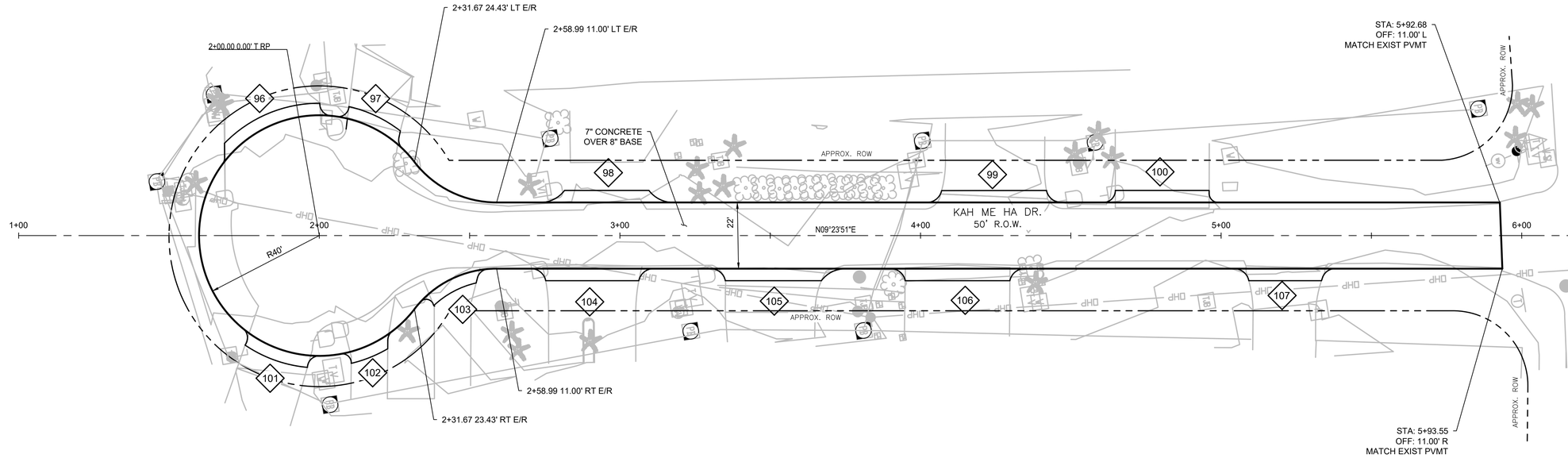
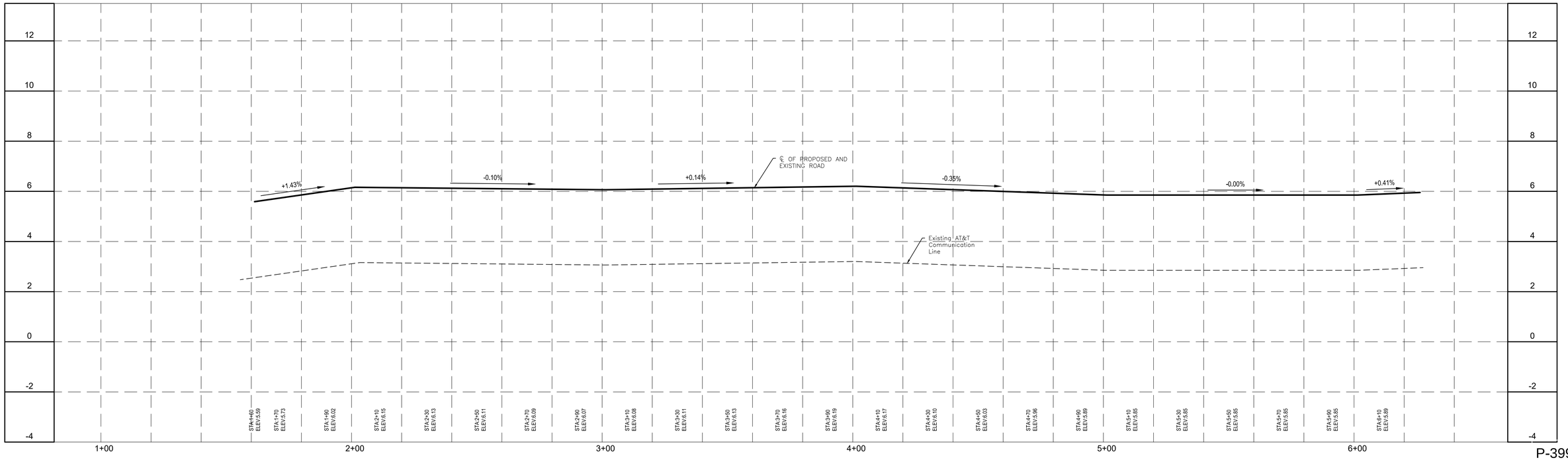


0 20' 40'
GRAPHIC SCALE 1"=20'

LEGEND

75 DRIVEWAY NUMBERS

NOTES:
1. WATER LINE LOCATED IN VICINITY
2. CONTRACTOR TO REPLACE AND RELOCATE EXISTING MAILBOXES



P-3997

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09/21/2020

TIKI ISLAND

KAH ME HA DR BEGIN TO END
PLAN AND PROFILE

SHEET 47
OF 55

P:\181-062-00\Drawings_TIKI ISLAND\34 KA ME HA DR PLAN & PROFILE.dwg Sep 18, 2020 - 8:35am Edited by: cmuellner

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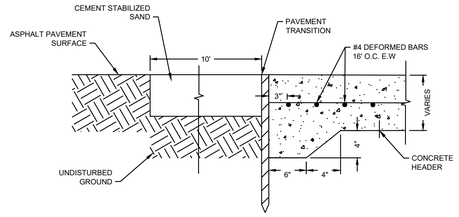
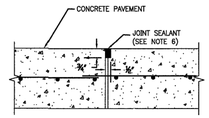
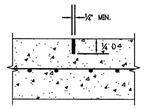


BACKFILL PAVEMENT EDGES



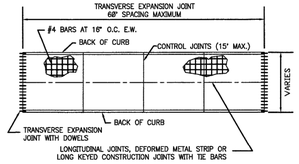
CONSTRUCTION JOINT



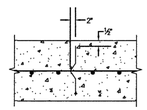
CONTRACTION JOINT

NOTES:

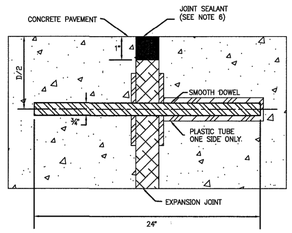
1. D = DEPTH OF CONCRETE.
2. SAW-CUT CONTRACTION JOINT TO DIMENSIONS SHOWN.



PAVING PANEL



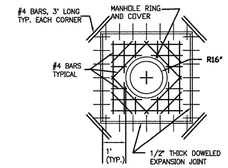
DEFORMED METAL STRIP



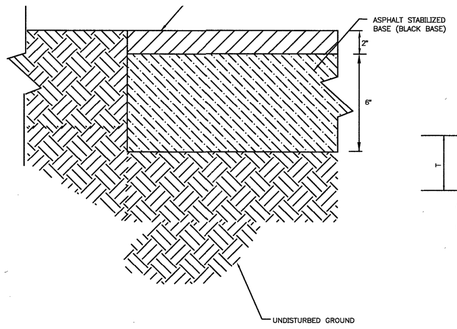
DOWEL EXPANSION JOINT

NOTES:

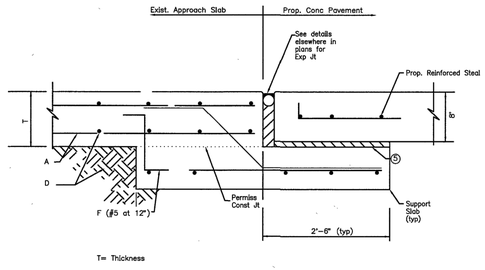
1. CANTILEVER TYPE. CAST MALLEABLE IRON LOAD TRANSMISSION UNIT-STARLUG MODEL D-27 OR EQUAL ON 22" O.C. ARE ACCEPTABLE ALTERNATIVES.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED A MINIMUM OF 40'-0" APART. MATCH TO EXPANSION JOINTS IN PAVING PANELS.
3. STAKES FOR TRANSVERSE JOINTS SHALL NOT BE PLACED CLOSER THAN 6" TO A LONGITUDINAL JOINT. THE TOP OF STAKE SHALL NOT BE LESS THAN 1½" BELOW THE FINISH SURFACE.
4. LOCATION OF CONSTRUCTION JOINTS AND DEFORMED STRIPS MAY BE VARIED WITH THE APPROVAL OF THE CITY, TO SUIT PROPOSED CONSTRUCTION OF THE CONTRACTOR.
5. CONTROL JOINTS SHALL BE SPACED AT A MAXIMUM OF 15'-0".3
6. JOINTS AND SEALANTS SHALL ADHERE TO CITY OF FRIENDSWOOD TECHNICAL SPECIFICATION 02840 – CONCRETE PAVEMENT JOINTS.



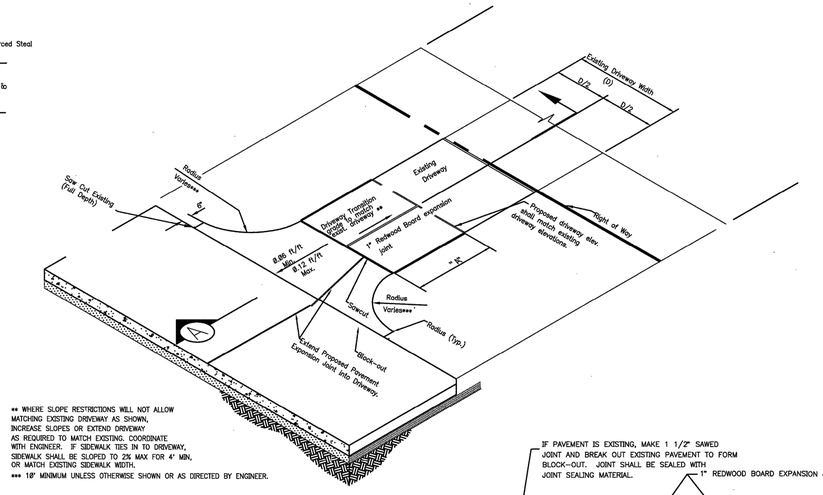
MANHOLE BLOCKOUT



TEMPORARY ASPHALT PAVEMENT

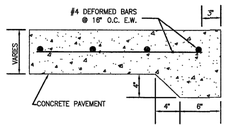


BRIDGE APPROACH SLAB DETAIL

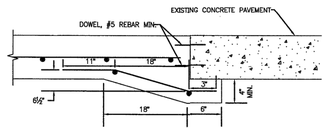


** WHERE SLOPE RESTRICTIONS WILL NOT ALLOW MATCHING EXISTING DRIVEWAY AS SHOWN, INCREASE SLOPES OR EXTEND DRIVEWAY AS REQUIRED TO MATCH EXISTING. COORDINATE WITH ENGINEER. IF SIDEWALK TIES IN TO DRIVEWAY, SIDEWALK SHALL BE SLOPED TO 2% MAX FOR 4' MIN, OR MATCH EXISTING SIDEWALK WIDTH.
*** 18' MINIMUM UNLESS OTHERWISE SHOWN OR AS DIRECTED BY ENGINEER.

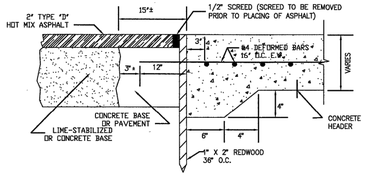
DRIVEWAY CONNECTION DETAIL



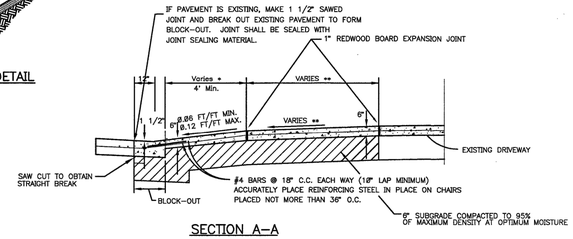
CONCRETE PAVING HEADER



UNDERCUT DETAIL



ASPHALT PAVING HEADER



SECTION A–A

P-3997

NO.	REVISIONS	DATE	NAME

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DESIGNED BY: J.I.
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STATE OF TEXAS
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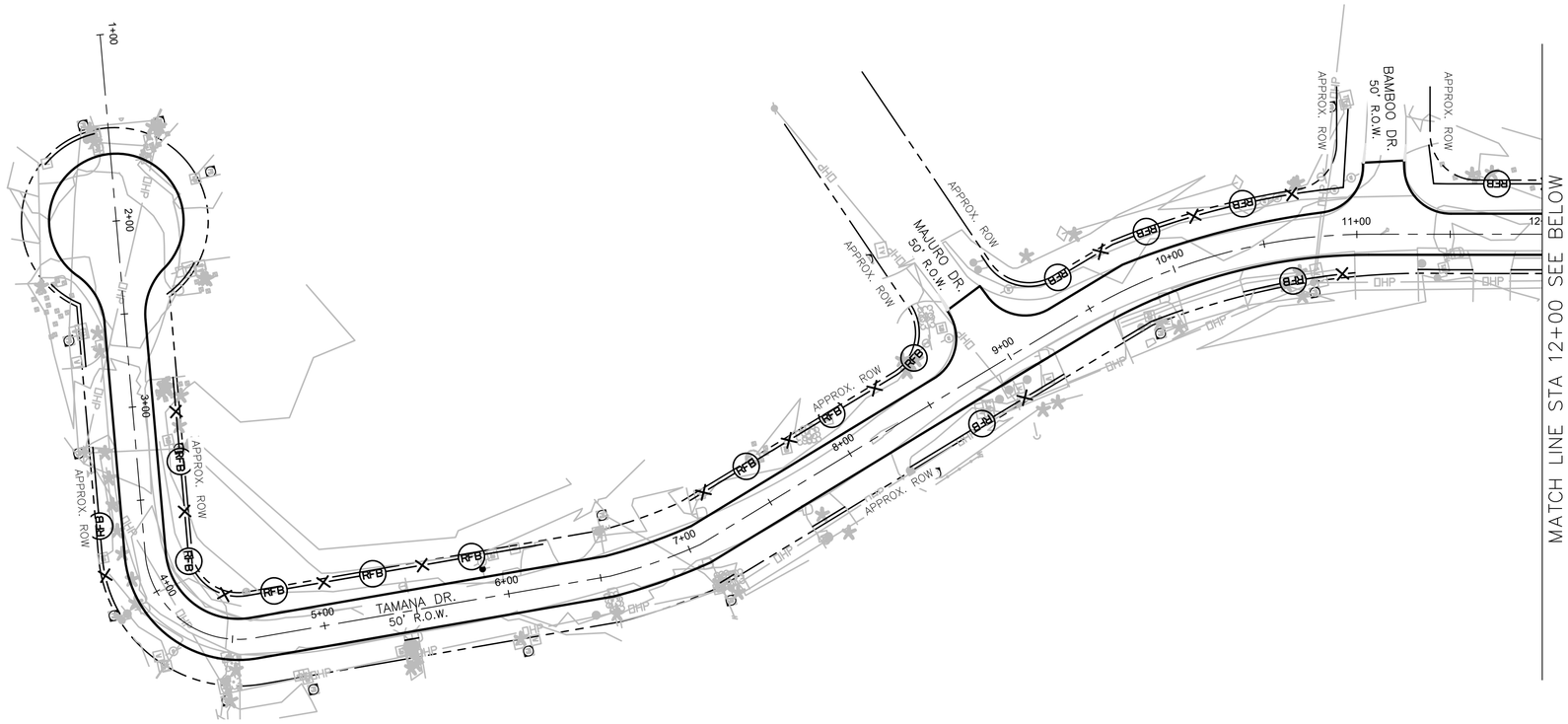
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

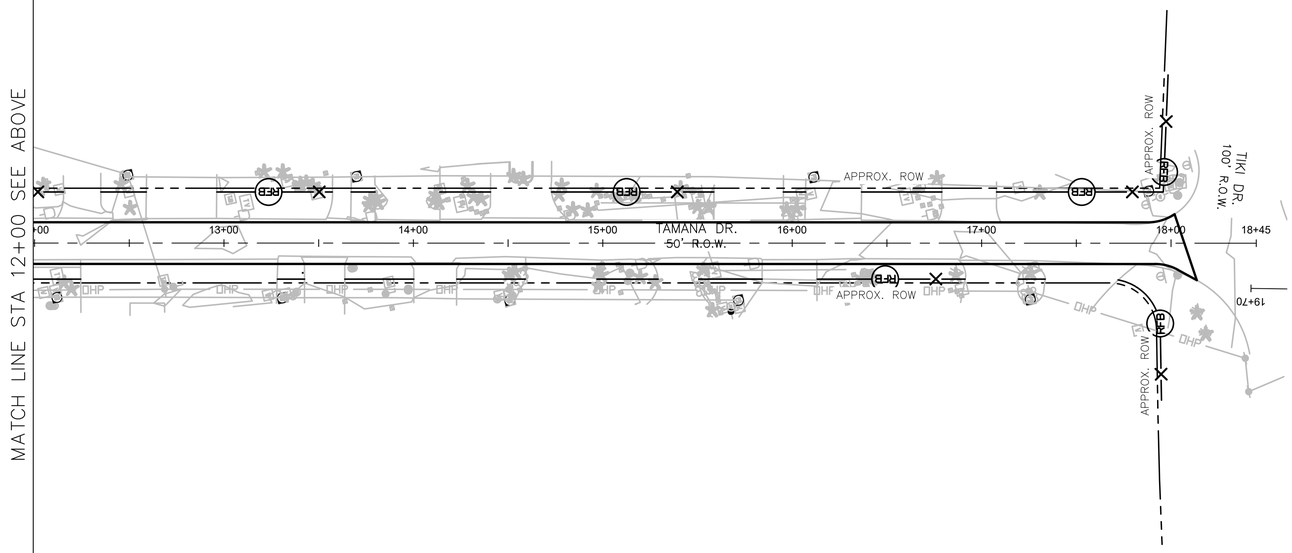
TIKI ISLAND

STANDARD PAVING DETAILS

SHEET 48 OF 55

P:\181-062-00\Drawings_TIKI ISLAND_44 STANDARD DETAILS.dwg Sep 18, 2020 - 8:36am Edited by: cmuellner





BENCHMARK

PRIMARY BENCHMARK: NGS RM NO. DO9997
HELD FOR HORIZONTAL AND VERTICAL
NAD 83, NAVD88, ELEVATION = 11.9'

0 40' 80'
GRAPHIC SCALE 1"=40'

LEGEND

RFB — REINFORCED FILTER FABRIC FENCE BARRIER

0 40' 80'
GRAPHIC SCALE 1"=40'

P-3997

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09/21/2020

TIKI ISLAND

SWPPP SHEET 1 OF 5

SHEET 49 OF 55

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BENCHMARK

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LEGEND

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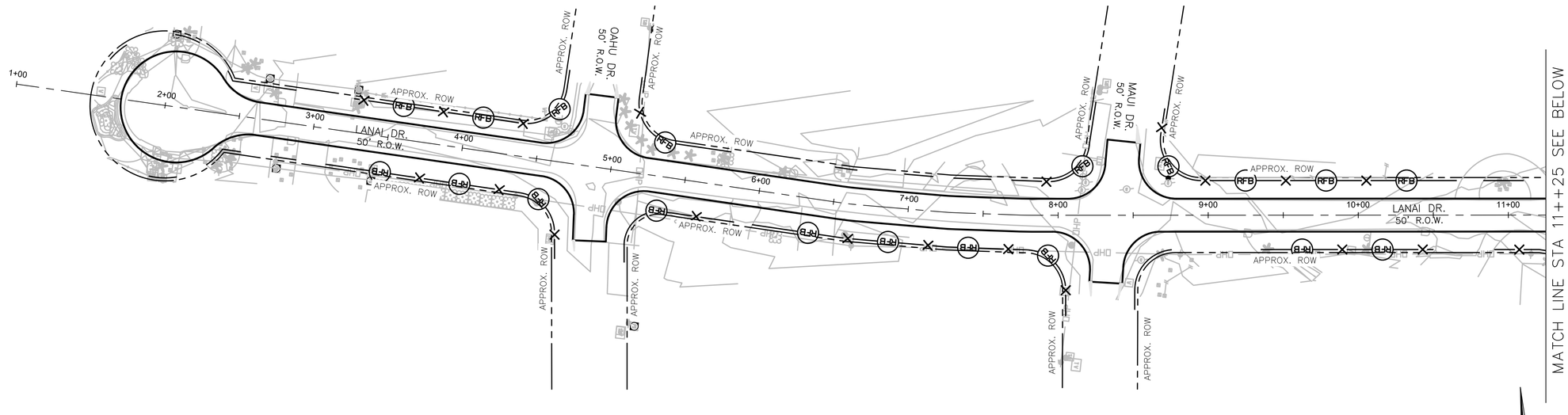

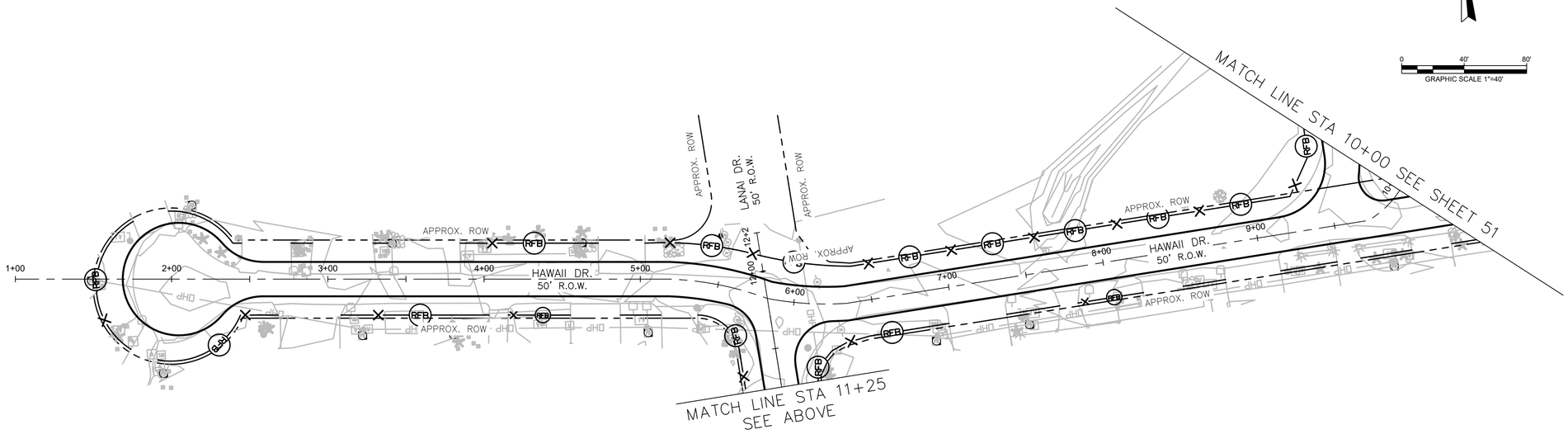

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TIKI ISLAND

SWPPP SHEET 2 OF 5

SHEET 50 OF 55

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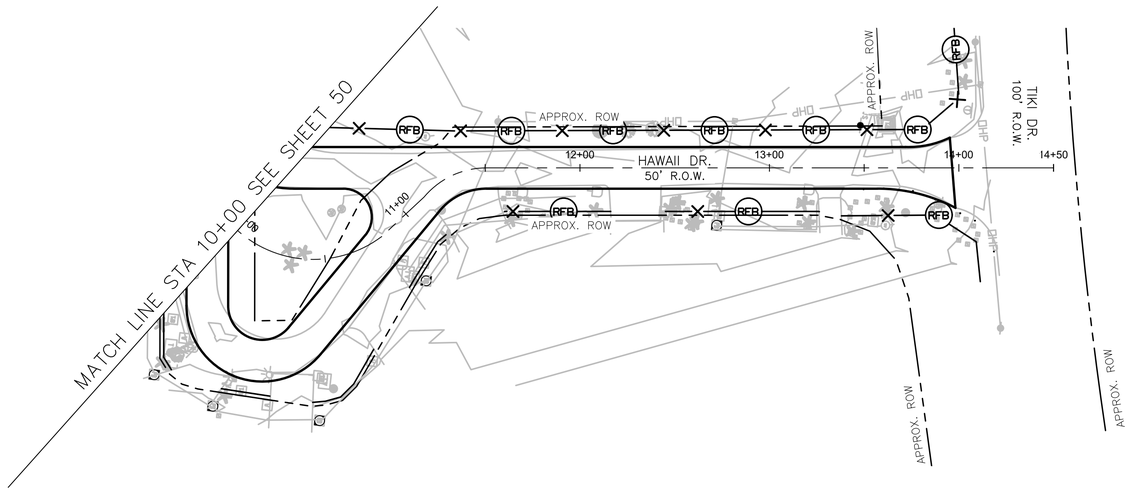

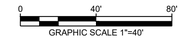

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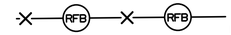
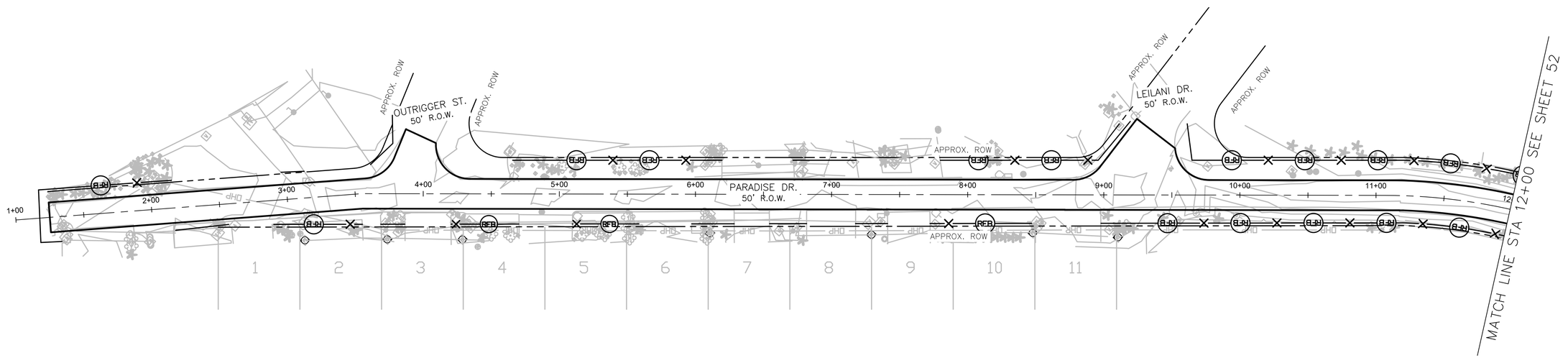


REINFORCED FILTER FABRIC FENCE BARRIER



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TIKI ISLAND

SWPPP SHEET 3 OF 5

SHEET 51 OF 55

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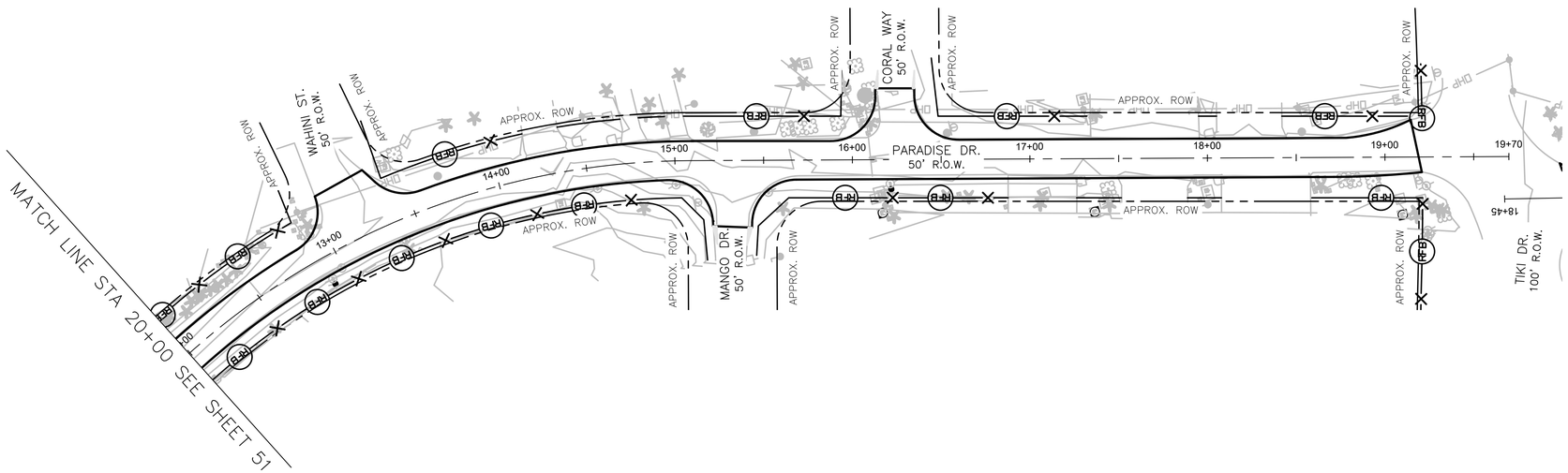

0 40' 80'
GRAPHIC SCALE 1"=40'

LEGEND

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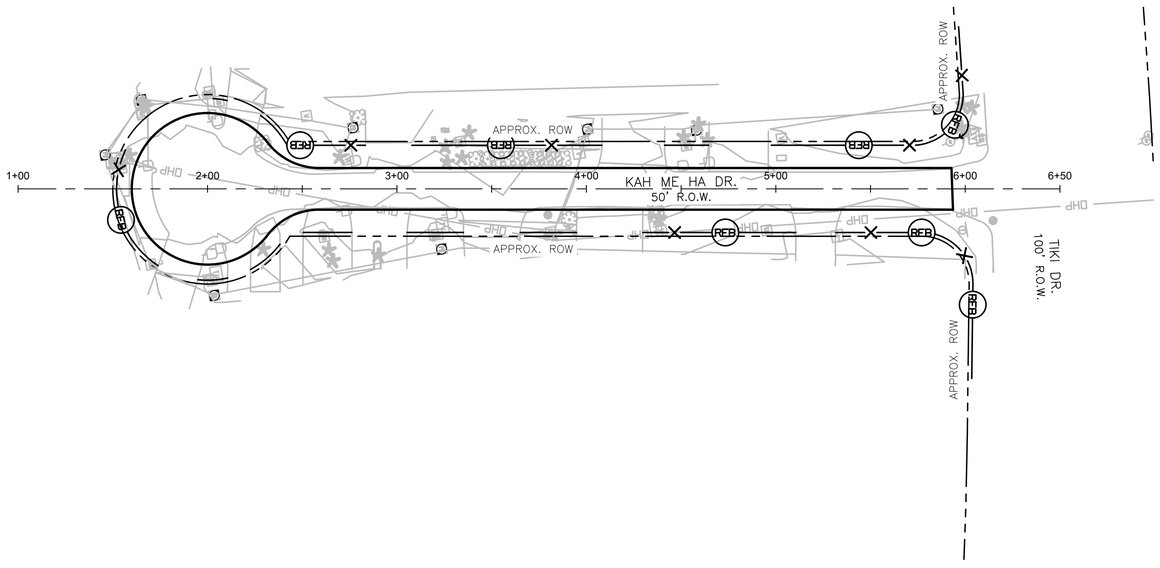

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TIKI ISLAND

SWPPP SHEET 4 OF 5

SHEET 52 OF 55

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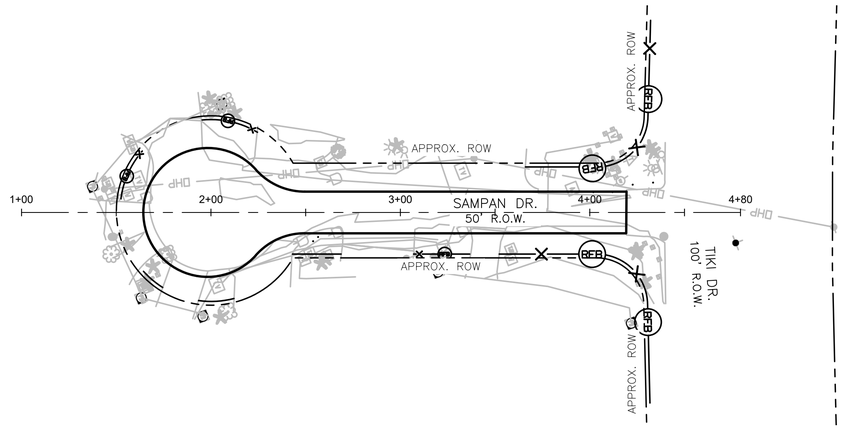

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TIKI ISLAND

SWPPP SHEET 5 OF 5

SHEET 53 OF 55

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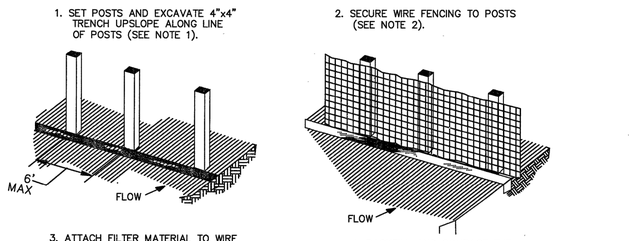
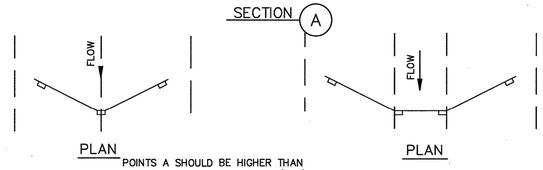
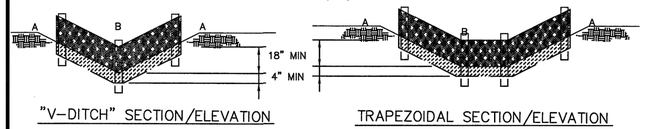






"V-DITCH" SECTION/ELEVATION

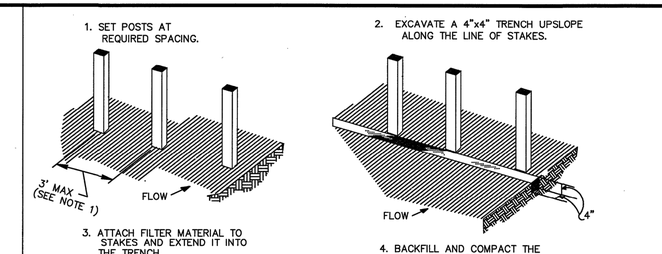
TRAPEZOIDAL SECTION/ELEVATION

CONSTRUCTION NOTES:

1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
2. WOVEN WIRE FENCE TO BE FASTENED SECURELY TO FENCE POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE FENCE, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
6. SEE SPECIFICATION FOR FILTER FABRIC BARRIER.

SYMBOL

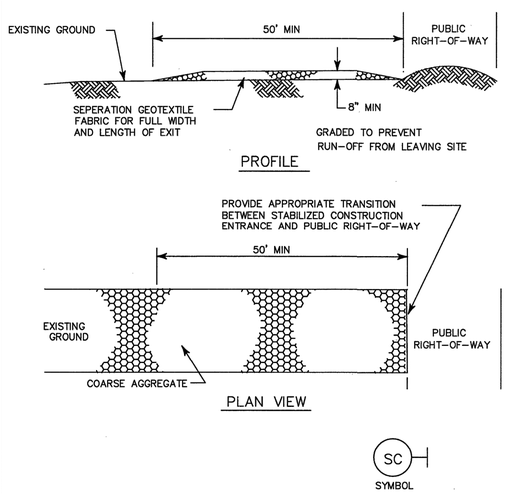
REINFORCED FILTER FABRIC BARRIER



CONSTRUCTION NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC FENCE SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
4. SEE SPECIFICATION FOR FILTER FABRIC FENCE.

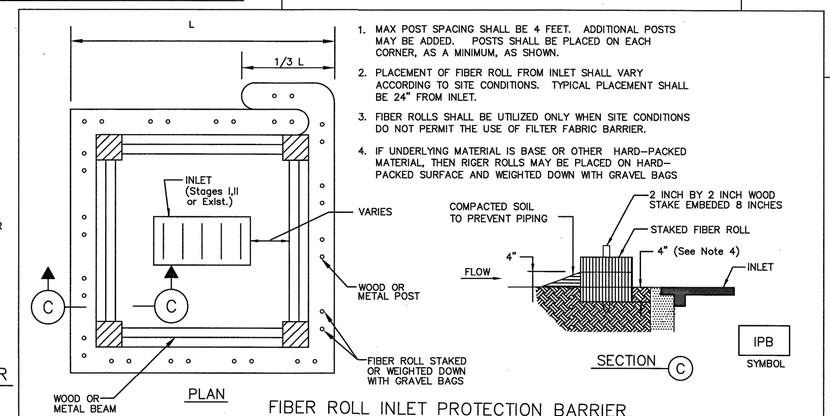
FILTER FABRIC FENCE



CONSTRUCTION NOTES:

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A TRUCK WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE TRUCK WASHING AREA.
6. SEE SPECIFICATION FOR STABILIZED CONSTRUCTION EXIT.
7. STABILIZED CONSTRUCTION EXIT SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

STABILIZED CONSTRUCTION EXIT

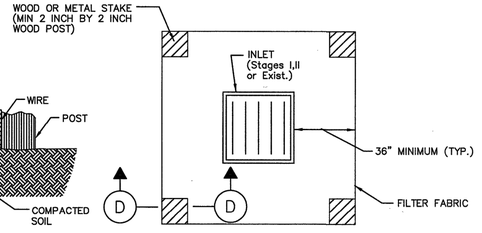


1. MAX POST SPACING SHALL BE 4 FEET. ADDITIONAL POSTS MAY BE ADDED. POSTS SHALL BE PLACED ON EACH CORNER, AS A MINIMUM, AS SHOWN.
2. PLACEMENT OF FIBER ROLL FROM INLET SHALL VARY ACCORDING TO SITE CONDITIONS. TYPICAL PLACEMENT SHALL BE 24" FROM INLET.
3. FIBER ROLLS SHALL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER.
4. IF UNDERLYING MATERIAL IS BASE OR OTHER HARD-PACKED MATERIAL, THEN RIGER ROLLS MAY BE PLACED ON HARD-PACKED SURFACE AND WEIGHTED DOWN WITH GRAVEL BAGS

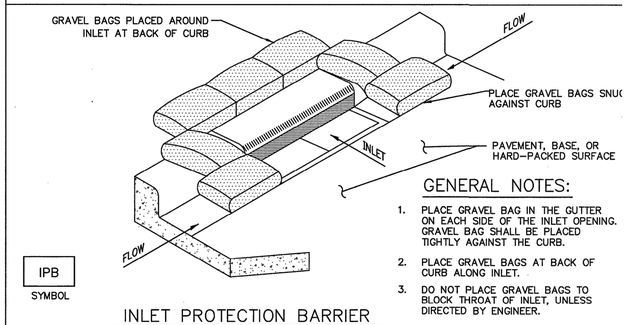
FIBER ROLL INLET PROTECTION BARRIER

CONSTRUCTION NOTE:

1. MAX. POST SPACING SHALL BE 4 FEET. ADDITIONAL POSTS MAY BE ADDED. POSTS SHALL BE PLACED ON EACH CORNER, AS A MINIMUM, AS SHOWN.
2. PLACEMENT OF FILTER FABRIC BARRIER FROM INLET SHALL VARY ACCORDING TO SITE CONDITIONS. TYPICAL PLACEMENT SHALL BE 36" MINIMUM FROM INLET EDGE.



SILT FENCE INLET PROTECTION BARRIER



GENERAL NOTES:

1. PLACE GRAVEL BAG IN THE GUTTER ON EACH SIDE OF THE INLET OPENING. GRAVEL BAG SHALL BE PLACED TIGHTLY AGAINST THE CURB.
2. PLACE GRAVEL BAGS AT BACK OF CURB ALONG INLET.
3. DO NOT PLACE GRAVEL BAGS TO BLOCK THROAT OF INLET, UNLESS DIRECTED BY ENGINEER.

INLET PROTECTION BARRIER (FOR EXISTING & PROPOSED STAGE II INLETS)

P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
ENGINEERING THE FUTURE SINCE 1938
10011 Meadowglen Lane
Houston, Texas 77042
EHRAinc.com | 713.784.4500
TBPE No F-726 | TBPLS No 10092300

STATE OF TEXAS
JOHN J. IVERY, JR
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

SWPPP DETAILS

SHEET 54 OF 55

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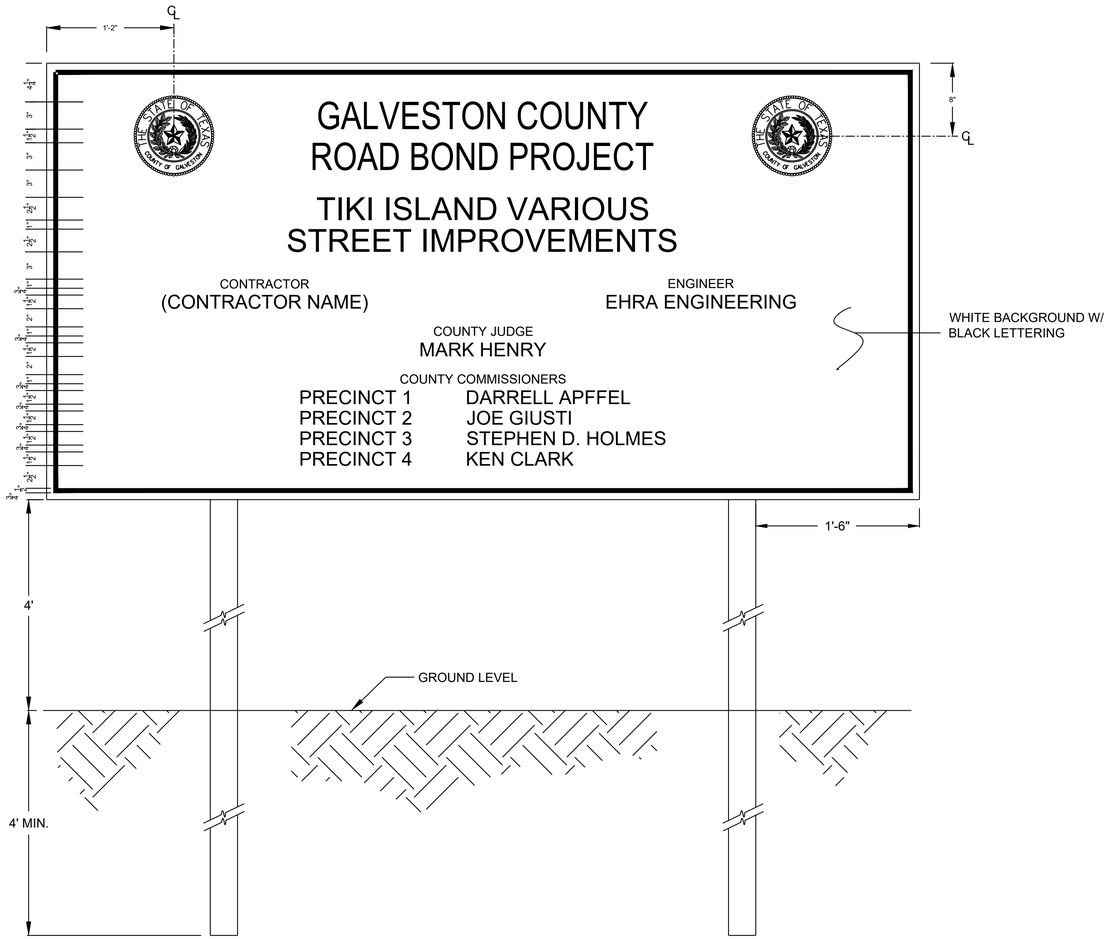
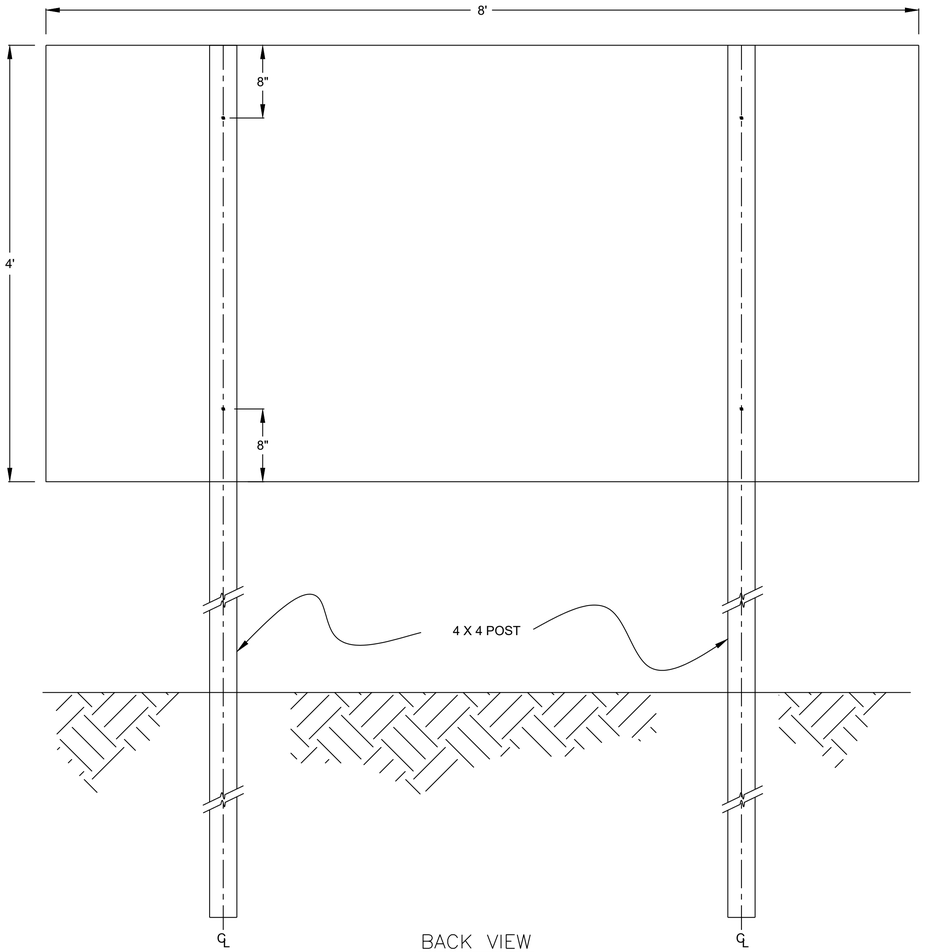


FRONT VIEW



BACK VIEW

P-3997

NO.	REVISIONS	DATE	NAME

DRAWN BY: G.G.
DESIGNED BY: J.I.
CHECKED BY: C.B.
APPROVED BY: J.I.
SCALE: N/A
DATE: 08/26/20

GALVESTON COUNTY
ENGINEERING DEPARTMENT

EHRA
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10011 Meadowglen Lane
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TBPE No F-726 | TBPLS No 10092300

STATE OF TEXAS
JOHN J. IVERY, JR
91002
LICENSED PROFESSIONAL ENGINEER
09/21/2020

TIKI ISLAND

PROJECT LIMIT SIGN DETAILS

SHEET 55 OF 55

P:\181-062-00\Drawings_TIKI ISLAND\PROJECT LIMIT SIGN (2).dwg Sep 18, 2020-8:37am Edited by: cmuellner

THE COUNTY OF GALVESTON

RUFUS G. CROWDER, CPPO, CPPB
PURCHASING AGENT

GWEN MCLAREN, CPPB
ASST. PURCHASING AGENT

COUNTY COURTHOUSE
722 Moody (21st Street)
Fifth (5th) Floor
GALVESTON, TEXAS 77550
(409) 770-5371

PROJECT NAME: **Tiki Island Various Street Improvements**

SOLICITATION NO: **ITB #B201048**

RE: **ADDENDUM #1**

To All Prospective Bidders:

The following information is being provided to aid in preparation of your bid submittal(s)

Question #1: Could there be consideration for a mixed lime/fly ash soil stabilizer, such as TRU-BLN®, instead of lime slurry on this project?

Response: No. The high plasticity index will not work well with the mixed lime. Lime slurry will be a better product for the soils on Tiki Island.

Question #2: What method do we use to remove asphalt and where do we take it?

Response: This is a means and methods consideration to be left to the contractor. There is a provision for excavation and salvage in the base bid for hauling the asphalt spoils. If there are asphaltic millings those shall be hauled to Galveston County Road & Bridge Yard at: 11730 State Highway 6, Santa Fe, TX

Question #3: Can a bid item be added by SY, for temporary 6" base driveways? There is currently no pay item to maintain access to property. FAST track paving could be added to help quick access and maintain constructability?

Response: Level of Asphalt Pavement can be utilized to maintain access to driveways.

Question #4: Do the plans or specs show where the stockpile location is? Does the material just have to be excavated or does it need to be milled into small pieces and the stockpiled?

Response: The description of bid item #4 has been revised from "Remove Salvage and Stockpile Asphaltic Surface and Base" to "Remove and Salvage Asphaltic Surface and Base". If there are asphaltic millings those shall be hauled to Galveston County Road & Bridge Yard at: 11730 State Highway 6, Santa Fe, TX and either salvaged per bid item #4 or disposed per bid item #74.

Question #5: What is this item, "Level of Asphalt Pavement" for the existing road is to be removed and replaced with concrete? If it is for intersection transitions should the item be 6" asphalt stabilized base and 1.5" surface by the SY or Ton.

Response: This item is to be used during traffic control operations for instances of providing 11' width driving lane or driveway access for residents.

Question #6: What is this item, "Irrigation System Relocation" for? Where on the plans are they shown? NO quantity? Will this be a change order item/ Can you put an allowance by EACH?

Response: There is a location on Paradise Drive where relocation of 25 linear feet of irrigation system is required. This quantity is shown in the base bid. The alternate bid items show zero quantity of irrigation system relocation.

As a reminder, all questions regarding this bid must be submitted in writing to:

Rufus G. Crowder, CPPO CPPB
Galveston County Purchasing Agent
722 Moody, Fifth (5th) Floor
Galveston, Texas 77550
E-mail: purchasing.bids@co.galveston.tx.us

If you have any further questions regarding this bid, please address them to Rufus Crowder, CPPO CPPB, Purchasing Agent, via e-mail at purchasing.bids@co.galveston.tx.us, or contact the Purchasing Department at (409) 770-5371.

Please excuse us for any inconvenience that this may have caused.

Sincerely,

Rufus G. Crowder, CPPO CPPB
Purchasing Agent
Galveston County

BID PROPOSAL

TIKI ISLAND VARIOUS STREET IMPROVEMENTS

ITEM	SPEC	DESCRIPTION	UNIT	QTY	UNIT PRICE IN WORDS	UNIT PRICE	TOTAL PRICE
A		SITE PREPARATION AND EARTHWORK					
1.	500	MOBILIZATION	LS	1	_____ DOLLARS AND _____ CENTS		
2.	PLANS	PROJECT SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
3.	100	CLEARING AND GRUBBING	AC	3.2	_____ DOLLARS AND _____ CENTS		
4.	305	REMOVE & SALVAGE ASPHALTIC SURFACE AND BASE	SY	15,727	_____ DOLLARS AND _____ CENTS		
5.	134	BACKFILL PAVEMENT EDGES ALONG ROADWAY W/CEMENT STABILIZED SAND	CY	2	_____ DOLLARS AND _____ CENTS		
6.	110	EXCAVATION ROADWAY	CY	3,467	_____ DOLLARS AND _____ CENTS		
7.	479	ADJUST EXISTING MANHOLE	EA	9	_____ DOLLARS AND _____ CENTS		
8.	100	REMOVE AND DISPOSE ALUMINUM SIGN	EA	13	_____ DOLLARS AND _____ CENTS		
9.	104	REMOVE AND DISPOSE DRIVEWAYS, RAMPS AND SIDEWALKS (ALL MATERIALS)	SY	390	_____ DOLLARS AND _____ CENTS		
10.	560	REMOVE AND RELOCATE MAILBOX	EA	60	_____ DOLLARS AND _____ CENTS		
11.	170	IRRIGATION SYSTEM RELOCATION	LF	25	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item A:		
B		PAVING					
12.	260	LIME TREATMENT EXISTING MATERIAL	SY	13,442	_____ DOLLARS AND _____ CENTS		
13.	260	HYDRATED LIME (SLURRY)	TON	323	_____ DOLLARS AND _____ CENTS		
14.	330	LEVEL OF ASPHALT PAVEMENT	LS	1	_____ DOLLARS AND _____ CENTS		
15.	360	REINFORCED CONCRETE PAVEMENT (7")	SY	13,442	_____ DOLLARS AND _____ CENTS		
16.	530	CONCRETE DRIVEWAY PAVEMENT (7")	SY	3,620	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item B:		
C		UTILITIES					
17.	479	ADJUST WATER METER	EA	76	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item C:		
D		TRAFFIC CONTROL PLAN					
18.	510	TRAFFIC CONTROL, INCLUDING BARRICADES AND SIGNING	MO	6	_____ DOLLARS AND _____ CENTS		
		Subtotal of Item D			**Subtotal of Item D:**		
E		SIGNING AND PAVEMENT MARKINGS					
19.	636	R1-1 STOP SIGN	EA	5	_____ DOLLARS AND _____ CENTS		
20.	624	R2-1 SPEED LIMIT 30 MPH SIGN	EA	3	_____ DOLLARS AND _____ CENTS		
21.	636	DUAL STREET NAME SIGN	EA	10	_____ DOLLARS AND _____ CENTS		
		Subtotal of Item E			**Subtotal of Item E:**		
					Base Bid:		

BID PROPOSAL

TIKI ISLAND VARIOUS STREET IMPROVEMENTS

ITEM	SPEC	DESCRIPTION	UNIT	QTY	UNIT PRICE IN WORDS	UNIT PRICE	TOTAL PRICE
ALTERNATE 1 -LANAI STREET							
F		SITE PREPARATION AND EARTHWORK					
22.	100	CLEARING AND GRUBBING	AC	0.7	_____ DOLLARS AND _____ CENTS		
23.	305	REMOVE AND SALVAGE ASPHALTIC SURFACE & BASE	SY	3,425	_____ DOLLARS AND _____ CENTS		
24.	110	EXCAVATION ROADWAY	CY	754	_____ DOLLARS AND _____ CENTS		
25.	479	ADJUST EXISTING MANHOLE	EA	25	_____ DOLLARS AND _____ CENTS		
26.	100	REMOVE AND DISPOSE ALUMINUM SIGN	EA	0	_____ DOLLARS AND _____ CENTS		
27.	104	REMOVE AND DISPOSE DRIVEWAYS, RAMPS AND SIDEWALKS (ALL MATERIALS)	SY	51	_____ DOLLARS AND _____ CENTS		
28.	560	REMOVE AND RELOCATE MAILBOX	EA	5	_____ DOLLARS AND _____ CENTS		
29.	170	IRRIGATION SYSTEM RELOCATION	LF	0	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item F:		
G		PAVING					
30.	260	LIME TREATMENT EXISTING MATERIAL	SY	2,911	_____ DOLLARS AND _____ CENTS		
31.	260	HYDRATED LIME (SLURRY)	TON	70	_____ DOLLARS AND _____ CENTS		
32.	360	REINFORCED CONCRETE PAVEMENT (7")	SY	2,911	_____ DOLLARS AND _____ CENTS		
33.	530	CONCRETE DRIVEWAY PAVEMENT (7")	SY	552	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item G:		
H		UTILITIES					
34.	479	ADJUST WATER METER	EA	10	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item H:		
I		TRAFFIC CONTROL PLAN					
35.	510	TRAFFIC CONTROL, INCLUDING BARRICADES AND SIGNING	MO	1	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item I:		
J		SIGNING AND PAVEMENT MARKINGS					
36.	636	R1-1 STOP SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
37.	624	R2-1 SPEED LIMIT 30 MPH SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
38.	636	DUAL STREET NAME SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item J:		
					Alternate 1 - Lanai Street:		

BID PROPOSAL

TIKI ISLAND VARIOUS STREET IMPROVEMENTS

ITEM	SPEC	DESCRIPTION	UNIT	QTY	UNIT PRICE IN WORDS	UNIT PRICE	TOTAL PRICE
ALTERNATE 2 -SAMPAN DRIVE							
K		SITE PREPARATION AND EARTHWORK					
39.	100	CLEARING AND GRUBBING	AC	0.2	_____ DOLLARS AND _____ CENTS		
40.	305	REMOVE AND SALVAGE ASPHALTIC SURFACE & BASE	SY	1,018	_____ DOLLARS AND _____ CENTS		
41.	110	EXCAVATION ROADWAY	CY	224	_____ DOLLARS AND _____ CENTS		
42.	479	ADJUST EXISTING MANHOLE	EA	1	_____ DOLLARS AND _____ CENTS		
43.	100	REMOVE AND DISPOSE ALUMINUM SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
44.	104	REMOVE AND DISPOSE DRIVEWAYS, RAMPS AND SIDEWALKS (ALL MATERIALS)	SY	71	_____ DOLLARS AND _____ CENTS		
45.	560	REMOVE AND RELOCATE MAILBOX	EA	8	_____ DOLLARS AND _____ CENTS		
46.	170	IRRIGATION SYSTEM RELOCATION	LF	0	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item K:		
L		PAVING					
47.	260	LIME TREATMENT EXISTING MATERIAL	SY	872	_____ DOLLARS AND _____ CENTS		
48.	260	HYDRATED LIME (SLURRY)	TON	21	_____ DOLLARS AND _____ CENTS		
49.	360	REINFORCED CONCRETE PAVEMENT (7")	SY	872	_____ DOLLARS AND _____ CENTS		
50.	530	CONCRETE DRIVEWAY PAVEMENT (7")	SY	305	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item L:		
M		UTILITIES					
51.	479	ADJUST WATER METER	EA	8	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item M:		
N		TRAFFIC CONTROL PLAN					
52.	510	TRAFFIC CONTROL, INCLUDING BARRICADES AND SIGNING	MO	1	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item N:		
O		SIGNING AND PAVEMENT MARKINGS					
53.	636	R1-1 STOP SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
54.	624	R2-1 SPEED LIMIT 30 MPH SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
55.	636	DUAL STREET NAME SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item O:		
					Alternate 2 - Sampan Drive:		

BID PROPOSAL

TIKI ISLAND VARIOUS STREET IMPROVEMENTS

ITEM	SPEC	DESCRIPTION	UNIT	QTY	UNIT PRICE IN WORDS	UNIT PRICE	TOTAL PRICE
ALTERNATE 3 -KAH ME HA DRIVE							
P		SITE PREPARATION AND EARTHWORK					
56.	100	CLEARING AND GRUBBING	AC	0.3	_____ DOLLARS AND _____ CENTS		
57.	305	REMOVE AND SALVAGE ASPHALTIC SURFACE AND BASE	SY	1,588	_____ DOLLARS AND _____ CENTS		
58.	110	EXCAVATION ROADWAY	CY	349	_____ DOLLARS AND _____ CENTS		
59.	479	ADJUST EXISTING MANHOLE	EA	1	_____ DOLLARS AND _____ CENTS		
60.	100	REMOVE AND DISPOSE ALUMINUM SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
61.	104	REMOVE AND DISPOSE DRIVEWAYS, RAMPS AND SIDEWALKS (ALL MATERIALS)	SY	1	_____ DOLLARS AND _____ CENTS		
62.	560	REMOVE AND RELOCATE MAILBOX	EA	71	_____ DOLLARS AND _____ CENTS		
63.	170	IRRIGATION SYSTEM RELOCATION	LF	0	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item P:		
Q		PAVING					
64.	260	LIME TREATMENT EXISTING MATERIAL	SY	1,436	_____ DOLLARS AND _____ CENTS		
65.	260	HYDRATED LIME (SLURRY)	TON	34	_____ DOLLARS AND _____ CENTS		
66.	360	REINFORCED CONCRETE PAVEMENT (7")	SY	1,436	_____ DOLLARS AND _____ CENTS		
67.	530	CONCRETE DRIVEWAY PAVEMENT (7")	SY	351	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item Q:		
R		UTILITIES					
68.	479	ADJUST WATER METER	EA	12	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item R:		
S		TRAFFIC CONTROL PLAN					
69.	510	TRAFFIC CONTROL, INCLUDING BARRICADES AND SIGNING	MO	1	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item S:		
T		SIGNING AND PAVEMENT MARKINGS					
70.	636	R1-1 STOP SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
71.	624	R2-1 SPEED LIMIT 30 MPH SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
72.	636	DUAL STREET NAME SIGN	EA	1	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item T:		
					Alternate 3 - Kah Me Ha Drive:		

BID PROPOSAL

TIKI ISLAND VARIOUS STREET IMPROVEMENTS

ITEM	SPEC	DESCRIPTION	UNIT	QTY	UNIT PRICE IN WORDS	UNIT PRICE	TOTAL PRICE
ALTERNATE 4 -STORM WATER POLLUTION PREVENTION PLAN							
U							
73.		FILTER FABRIC FENCE	LF	10,214	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item U:		
					Alternate 4 SWPPP:		
ALTERNATE 5 -SALVAGE & HAUL ASPHALT PAVEMENT							
V							
74.	105.	REMOVE AND DISPOSE OF TREATED AND UNTREATED BASE & ASPHALT PAVEMENT	LF	21,758	_____ DOLLARS AND _____ CENTS		
					Subtotal of Item V:		
					Alternate 5 - Salvage & Haul Asphalt Pavement:		

BID PROPOSAL

TIKI ISLAND VARIOUS STREET IMPROVEMENTS

ITEM	SPEC	DESCRIPTION	UNIT	QTY	UNIT PRICE IN WORDS	UNIT PRICE	TOTAL PRICE
		BASE BID SUMMARY					
		TOTAL SITE PREPARATION AND EARTHWORK ITEMS					
		TOTAL PAVING ITEMS					
		TOTAL UTILITIES ITEMS					
		TOTAL TRAFFIC CONTROL PLAN					
		TOTAL MARKINGS					
		TOTAL ITEMS BASE BID PRICE					
		ALTERNATE NO. 1 BID SUMMARY					
		TOTAL SITE PREPARATION AND EARTHWORK ITEMS					
		TOTAL PAVING ITEMS					
		TOTAL UTILITIES ITEMS					
		TOTAL TRAFFIC CONTROL PLAN					
		TOTAL MARKINGS					
		ALTERNATE NO. 1 BID SUMMARY					
		ALTERNATE NO. 2 BID SUMMARY					
		TOTAL SITE PREPARATION AND EARTHWORK ITEMS					
		TOTAL PAVING ITEMS					
		TOTAL UTILITIES ITEMS					
		TOTAL TRAFFIC CONTROL PLAN					
		TOTAL MARKINGS					
		ALTERNATE NO. 2 BID SUMMARY					
		ALTERNATE NO. 3 BID SUMMARY					
		TOTAL SITE PREPARATION AND EARTHWORK ITEMS					
		TOTAL PAVING ITEMS					
		TOTAL UTILITIES ITEMS					
		TOTAL TRAFFIC CONTROL PLAN					
		TOTAL MARKINGS					
		ALTERNATE NO. 3 BID SUMMARY					
		ALTERNATE NO. 4 BID SUMMARY					
		TOTAL STORM WATER POLLUTION PREVENTION PLAN ITEMS					
		ALTERNATE NO. 4 BID SUMMARY					
		ALTERNATE NO. 5 BID SUMMARY					
		TOTAL SALVAGE & HAUL ASPHALT PAVEMENT ITEMS					
		ALTERNATE NO. 5 SALVAGE & HAUL ASPHALT PAVEMENT					

BASE BID TOTAL: _____

ALTERNATE BID 1: _____

ALTERNATE BID 2: _____

ALTERNATE BID 3: _____

ALTERNATE BID 4: _____

TOTAL BASE BID + ALTERNATE 1 + ALTERNATE 2 + ALTERNATE 3 + ALTERNATE 4:

_____